Table 10. Molecular lines observed towards G5.89.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
336.670	1.1	2.2	SO_2	16(7,9)–17(6,12)	336.6696	245	
336.670	1.8	6.1	SO_2	16(7,9)–17(6,12)	336.6696	245	
337.062	6.7	6.1	$C^{17}O$	3–2	337.0611	32.4	blend
337.063	9.1		$C^{17}O$	3–2	337.0611	32.4	blend
337.198	0.94	7.4	CH_3OH	7(-5)–6(-5) E vt2	337.1985	697	
337.198	0.98	6.5	CH_3OH	7(-5)–6(-5) E vt2	337.1985	697	
337.396	5.8	6.5	$C^{34}S$	7–6	337.3966	64.8	
337.397	5.7	6.1	$C^{34}S$	7–6	337.3966	64.8	
339.857	3.2	7.4	^{34}SO	9(8)–8(7)	339.8573	77.3	sl-blend
339.857	3.3	7.4	^{34}SO	9(8)–8(7)	339.8573	77.3	
340.008	1.7	6.1	CN	3–2 2.5 2.5–1.5 2.5	340.0082	16.3	sl-blend
340.009	1.6	5.8	CN	3- 2 2.5 2.5–1.5 2.5	340.0082	16.3	sl-blend
340.021	1.9		CN	3–2 2.5 1.5–1.5 1.5	340.0196	16.3	blend
340.033	6	10	CN	3–2 2.5 3.5–1.5 2.5	340.0316	16.3	sl-blend
340.052	1.8		$C^{33}S$	7–6	340.0527	65.3	blend
340.247	7.4	8.7	CN	3–2 3.5 4.5–2.5 3.5	340.2479	16.3	sl-blend
340.248	8.1	7.1	CN	3–2 3.5 4.5–2.5 3.5	340.2479	16.3	blend
340.265	2.3		CN	3–2 3.5 3.5–2.5 3.5	340.265	16.3	blend
340.265	2.2	7.8	CN	3–2 3.5 3.5–2.5 3.5	340.265	16.3	blend
340.317	0.98	7.4	SO_2	28(2,26)–28(1,27)	340.3165	392	
340.317	0.94	8.7	SO_2	28(2,26)–28(1,27)	340.3165	392	
349.108	0.69	6.5	CH_3OH	14(1)–14(0) A+	349.107	260.42	
349.339	11		C_2H	4.5–3.5	349.3381	41.9	blend
349.339	8.2	6	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.392	1.7		CH_3CN	19(3)–18(3)	349.393	232	blend
349.392	2		CH_3CN	19(3)–18(3)	349.393	232	blend
349.400	7.1	5.2	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.400	6.8	6.5	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.401	6	6	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.401	6.3	6.5	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.427	1.5	3.2	CH_3CN	19(2)–18(2)	349.4266	196	
349.428	0.98	7.4	CH_3CN	19(2)–18(2)	349.4266	196	
349.447	1.6	5.5	CH_3CN	19(1)–18(1)	349.4467	175	sl-blend
349.449	1.7		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.453	1.2	5.1	CH_3CN	19(0)–18(0)	349.4534	168	sl-blend
349.454	1.6		CH_3CN	19(0)–18(0)	349.4534	168	blend
349.604	0.57	5.8	U				
351.769	13	8.7	H_2CO	5(1,5)–4(1,4)	351.7686	62.5	sl-blend
351.769	14		H_2CO	5(1,5)–4(1,4)	351.7686	62.5	blend
351.874	2.5	8.8	SO_2	14(4,10)–14(3,11)	351.8739	136	
351.874	2.9	9.1	SO_2	14(4,10)–14(3,11)	351.8739	136	
352.599	1.3	5.5	OCS	29–28	352.5996	254	
352.600	0.89	7.1	OCS	29–28	352.5996	254	

Table 11. Molecular lines observed towards G9.62.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
216.710	1.8	4	H_2S	2(2,0)–2(1,1)	216.7104	84	sba
216.965	0.2	4.8	$HCOOCH_3$	20(0,20)–19(1,19) A	216.9641	111	sba blend *
			H_2NCN v=1	11(2,9)–10(2,8)	219.4574	108	
219.475	0.44	3.9	SO_2 v2=1	22(2,20)–22(1,21)	219.4656	249	sba
219.505	0.15	5.9	C_2H_5CN	24(2,22)–23(2,21)	219.5056	136	sba
219.560	8.1	5.3	$C^{18}O$	2–1	219.5603	15.8	sba
219.798	0.33	5.3	HNCO	10(0,10)–9(0,9)	219.7983	58	*
			C_2H_5OH	9(8,2)–10(7,3)	216.6266	105	blend
219.908	0.18	3.9	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	*
			$HCOOCH_3$	34(9,26)–34(8,27) A	216.5181	387	
219.949	1.8	4.9	SO	6(5)–5(4)	219.9494	35	sba
236.063	0.14		$^{13}CH_3OH$	5(2)–4(2) E	236.00620	59.0	blend
			$^{13}CH_3OH$	5(-2)–4(-2) E	236.00628	55.4	blend
236.513	0.91	5.6	CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
238.913	0.2	2.2	CH_3CN	13(7)–12(7)	238.9126	428	
238.973	0.25	4.1	CH_3CN	13(6)–12(6)	238.9723	336	
239.022	0.21	4.5	CH_3CN	13(5)–12(5)	239.0229	258	
239.022	0.28	7.3	CH_3CN	13(5)–12(5)	239.0229	258	
239.023	0.26	6.6	CH_3CN	13(5)–12(5)	239.0229	258	
239.064	0.25	5	CH_3CN	13(4)–12(4)	239.0643	194	
239.064	0.34	6.2	CH_3CN	13(4)–12(4)	239.0643	194	
239.064	0.44	6.1	CH_3CN	13(4)–12(4)	239.0643	194	
239.072	0.19	3.3	U				
239.097	0.42	4.5	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.49	5.6	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.53	6.1	CH_3CN	13(3)–12(3)	239.0965	144	
239.119	0.35	2.6	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	0.5	5	CH_3CN	13(2)–12(2)	239.1195	109	
239.120	0.41	5.1	CH_3CN	13(2)–12(2)	239.1195	109	
239.133	0.54		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.135	0.43		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.135	0.65		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.138	0.44		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.71		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.139	0.59		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.211	0.49	2.8	CH_3CCH	14(3)–13(3)	239.2112	149	sl-blend
239.211	0.37	2.3	CH_3CCH	14(3)–13(3)	239.2112	149	
239.212	0.34	3.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.234	0.53	3.3	CH_3CCH	14(2)–13(2)	239.234	114	
239.234	0.45	3.4	CH_3CCH	14(2)–13(2)	239.234	114	
239.235	0.41	4	CH_3CCH	14(2)–13(2)	239.234	114	
239.247	0.85		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.247	0.8		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.247	0.7		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.252	0.87		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.252	0.72		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.253	0.76		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
241.767	2.6	3.7	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.768	2.6	4.2	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.791	2.9	4.2	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	2.9	3.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.833	0.6	4.7	CH_3OH	5(4)–4(4) E	241.8296	130	
241.833	0.64	4.7	CH_3OH	5(4)–4(4) E	241.8296	130	
241.842	0.69	3.7	CH_3OH	5(2)–4(2) A-	241.8423	72.5	blend
241.843	0.69	5.1	CH_3OH	5(2)–4(2) A-	241.8423	72.5	blend
241.852	0.28	4.3	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	
241.878	1.2	4.6	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.879	1	4.6	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend

Table 11. continued. Molecular lines observed towards G9.62.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.887	0.53	3.7	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.887	0.45	6	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.905	1.4	5.1	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.905	1.3	4.7	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
336.865	0.79	7.3	CH_3OH	12(1)–12(0) A±	336.8651	197	sba
337.060	6.4	4.4	$C^{17}O$	3–2	337.0611	32.4	sba
337.396	4.8	5.7	$C^{34}S$	7–6	337.3966	64.8	sba
346.220	0.63	3.7	NS	(7.5,8.5)–(6.5,7.5)	346.2201	71.0	
346.528	1.1	9.4	SO	9(8)–8(7)	346.5286	78.8	
349.105	0.74	10	CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.106	0.47	7.9	CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.285	0.35	8.4	U				
349.286	0.31	2.8	U				
349.338	2.6	7.6	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.339	2.4	5.6	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.389	0.37		CH_3CN	19(3)–18(3)	349.393	232	blend
349.399	2.2	5.9	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.400	1.8	7.3	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.427	0.52	5.1	CH_3CN	19(2)–18(2)	349.4266	196	
349.428	0.31	8.9	CH_3CN	19(2)–18(2)	349.4266	196	
349.450	0.49	17	CH_3CN	19(0)–18(0)	349.4534	168	blend
349.450	0.55	15	CH_3CN	19(0)–18(0)	349.4534	168	blend

Table 11. continued. Molecular lines observed towards G9.62 at the offset position (0,20).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
236.514	0.5	2.2	CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
239.064	0.15	3.9	CH_3CN	13(4)–12(4)	239.0643	194	
239.098	0.16	2.8	CH_3CN	13(3)–12(3)	239.0965	144	
239.099	0.14	3.9	CH_3CN	13(3)–12(3)	239.0965	144	
239.120	0.16	5.1	CH_3CN	13(2)–12(2)	239.1195	109	
239.120	0.16	5.1	CH_3CN	13(2)–12(2)	239.1195	109	
239.134	0.26		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.135	0.2		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.139	0.21		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.140	0.24		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.212	0.28	2.3	CH_3CCH	14(3)–13(3)	239.2112	149	
239.213	0.15	3.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.235	0.28	1.1	CH_3CCH	14(2)–13(2)	239.234	114	
239.235	0.25	2.2	CH_3CCH	14(2)–13(2)	239.234	114	
239.248	0.32	3.4	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.249	0.39	2.2	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.253	0.38	2.3	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.254	0.37	4	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
241.768	1	3	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.775	0.2		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.792	1.1	3.8	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.833	0.26	4.9	CH_3OH	5(4)–4(4) E	241.8296	130	
241.844	0.24	4.2	CH_3OH	5(2)–4(2) A-	241.8423	72.5	blend
241.880	0.31	3.7	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.890	0.23	3.7	CH_3OH	5(2)–4(2) A+	241.8877	72.5	
241.906	0.44	2.6	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend

Table 12. Molecular lines observed towards G10.47.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
216.342	0.82	6.8	U				sba
216.570	0.64	5.1	H_2CO	9(1,8)–9(1,9)	216.5686	174	sba
216.644	0.56	6.2	SO_2	22(2,20)–22(1,21)	216.6433	248	sba
216.711	3	6.2	H_2S	2(2,0)–2(1,1)	216.7104	84	sba
216.831	0.35	5.1	$HCOOCH_3$	18(2,16)–17(2,15) A	216.8388	106	sba *
			H_2NCN v=1	11(4,8)–10(4,7)	219.5879	271	sba
216.937	0.31		H_2CCHCN	23(2,22)–22(2,21)	216.9367	134	blend *
			$HCOOCH_3$	30(5,26)–30(4,27) A	219.4839	273	
216.968	0.78	6.2	$HCOOCH_3$	20(0,20)–19(1,19) A	216.9641	111	blend *
			H_2NCN v=1	11(2,9)–10(2,8)	219.4573	106	
219.398	0.38	7.3	$HCOOCH_3$	7(5,3)–7(3,4) A	219.3922	33.1	*
			H_2CCHCN	23(3,20)–22(3,19)	219.4005	131	
219.474	1.2	7.3	SO_2 v2=1	22(2,20)–22(1,21)	219.4656	249	sba sl-blend
219.506	0.37	6.6	C_2H_5CN	24(2,22)–23(2,21)	219.5056	136	sba
219.558	5		$C^{18}O$	2–1	219.5603	15.8	sba self-abs
219.578	0.37	9	$HCOOCH_3$	28(9,19)–28(8,20) A	219.5791	295	sba
219.798	1.1	6.2	HNCO	10(0,10)–9(0,9)	219.7983	58	*
			C_2H_5OH	9(8,2)–10(7,3)	216.6266	105	blend
219.876	0.34	7.3	H_2NCN v=0	11(2,10)–10(2,9)	219.8751	121	sba
219.894	0.37	8.9	H_2CCHCN	10(2,9)–9(1,8)	219.8997	33.7	sl-blend
219.910	0.61	6.2	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	sba sl-blend
219.951	1.8	6.2	SO	6(5)–5(4)	219.9494	35	sba
235.846	0.3	4.8	$HCOOCH_3$	19(7,13)–18(7,12) A	235.8447	145	
235.867	0.45	6.3	$HCOOCH_3$	19(7,13)–18(7,12) E	235.8659	145	
235.885	0.62	10	$HCOOCH_3$	19(7,12)–19(7,11) E	235.8872	145	blend
235.936	0.3	5.8	$HCOOCH_3$	19(7,12)–18(7,11) A	235.9326	145	blend
235.937	0.61	9.7	$HCOOCH_3$	11(4,7)–10(3,8) E	235.9346	49.8	blend
235.997	0.32	5.8	$^{13}CH_3OH$	5(4)–4(4) E	235.9944	129	
			$^{13}CH_3OH$	5(3)–4(3) A+	235.9970	84.0	blend *
236.366	0.68	6.8	$HCOOCH_3$	20(3,18)–19(3,17) A	236.3655	128	sl-blend
236.409	0.38	8.7	H_2CCHCN	28(2,27)–28(0,28)	236.394	193	
236.482	0.32		HCOOH	9(2,8)–9(1,9)	236.4983	48.5	blend
236.485	0.33		H_2CCHCN	38(3,36)–39(1,39)	236.3940	176	blend
236.512	1.3	9.1	CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
238.833	0.71	8.2	U				
238.869	0.4	6.8	U				
238.914	0.58	4.3	CH_3CN	13(7)–12(7)	238.9126	428	
238.923	0.46		CH_3CN	13(7)–12(7)	238.9126	428	blend
238.947	0.33	4.5	$CH_3{}^{13}CN$	13(4)–12(4)	238.9462	195	
238.973	0.57	6.7	CH_3CN	13(6)–12(6)	238.9723	336	
238.973	0.77	14	CH_3CN	13(6)–12(6)	238.9723	336	
238.976	0.72	12	CH_3CN	13(6)–12(6)	238.9723	336	blend
238.992	0.33		$CH_3{}^{13}CN$	13(1)–12(1)	239.0149	87.5	blend
239.003	0.26		$CH_3{}^{13}CN$	13(0)–12(0)	239.0195	80.3	blend
239.003	0.33	3.9	$CH_3{}^{13}CN$	13(2)–12(2)	239.0012	109	
239.020	0.66		$CH_3{}^{13}CN$	13(0)–12(0)	239.0195	80.3	blend
239.022	0.61	12	CH_3CN	13(5)–12(5)	239.0229	258	blend
239.022	0.7	13	CH_3CN	13(5)–12(5)	239.0229	258	blend
239.025	0.64		CH_3CN	13(5)–12(5)	239.0229	258	blend
239.064	1.2	10	CH_3CN	13(4)–12(4)	239.0643	194	
239.064	0.88	7.9	CH_3CN	13(4)–12(4)	239.0643	194	
239.067	0.84	11	CH_3CN	13(4)–12(4)	239.0643	194	
239.096	1.1	11	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	1	7.2	CH_3CN	13(3)–12(3)	239.0965	144	
239.120	1.2	9.2	CH_3CN	13(2)–12(2)	239.1195	109	
239.120	1	9.3	CH_3CN	13(2)–12(2)	239.1195	109	
239.121	1.2	9.4	CH_3CN	13(2)–12(2)	239.1195	109	
239.135	0.94		CH_3CN	13(1)–12(1)	239.1333	87.4	blend

Table 12. continued. Molecular lines observed towards G10.47.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
239.136	1	12	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.137	1.2	12	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.140	0.85		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.180	0.3	8.8	CH_3CCH	14(4)–13(4)	239.1793	198	
239.180	0.35	9.3	CH_3CCH	14(4)–13(4)	239.1793	198	
239.196	0.39	10	U				
239.211	0.33	6	CH_3CCH	14(3)–13(3)	239.2112	149	
239.213	0.56	7.6	CH_3CCH	14(3)–13(3)	239.2112	149	
239.213	0.8	6.8	CH_3CCH	14(3)–13(3)	239.2112	149	
239.228	0.41		CH_3CHO	11(3,8)–11(1,10) E	239.2238	81.5	blend
239.234	0.69		CH_3CCH	14(2)–13(2)	239.234	114	blend
239.235	0.64	7.7	CH_3CCH	14(2)–13(2)	239.234	114	sl-blend
239.235	0.54	6.1	CH_3CCH	14(2)–13(2)	239.234	114	blend
239.250	1	12	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.250	0.54	8.7	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.251	0.64	8.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
241.436	0.66	6.2	H_2CCHCN	29(2,28)–29(0,29)	242.4339	206	blend
241.769	3.3	5.1	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.769	3.5	5.3	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.792	3.5	6.2	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.793	3.5	5.4	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.807	0.93		CH_3OH	5(4)–4(4) A-	241.8065	115	blend
241.808	0.86		CH_3OH	5(4)–4(4) A+	241.8065	115	blend
241.814	0.78		CH_3OH	5(-4)–4(-4) E	241.8133	122	blend
241.815	0.69		CH_3OH	5(-4)–4(-4) E	241.8133	122	blend
241.834	1.5		CH_3OH	5(4)–4(4) E	241.8296	130	blend
241.834	1.6	9.2	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.844	1.6	7.9	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.844	1.7	9.2	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.854	1.2		CH_3OH	5(-3)–4(-3) E	241.8524	96.3	blend
241.854	1.1		CH_3OH	5(-3)–4(-3) E	241.8524	96.3	blend
241.880	2.2	7.8	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.881	2.1	7.3	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.889	1.5		CH_3OH	5(2)–4(2) A+	241.8877	72.5	blend
241.890	1.4		CH_3OH	5(2)–4(2) A+	241.8877	72.5	blend
241.906	2.5	6.2	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.906	2.5	7.3	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.933	0.37	6.7	C_2H_5CN	27(11,16)–26(11,15)	241.9332	297	blend
241.933	0.54	4.8	C_2H_5CN	27(11,16)–26(11,15)	241.9332	297	blend
241.947	0.49	7.9	$(CH_3)_2O$	13(1,13)–12(0,12) AA	241.9469	81.1	
241.947	0.53	7.9	$(CH_3)_2O$	13(1,13)–12(0,12) AA	241.9469	81.1	
241.960	0.32	4.5	C_2H_5CN	27(12,16)–26(12,15)	241.9591	322	blend
241.972	0.39	6.7	C_2H_5CN	27(8,20)–26(8,19)	241.9704	234	blend
241.973	0.47	3.4	C_2H_5CN	27(8,20)–26(8,19)	241.9704	234	blend
241.997	0.46	4.5	C_2H_5CN	27(13,15)–26(13,14)	241.9971	350	blend
241.998	0.41	5.7	C_2H_5CN	27(13,15)–26(13,14)	241.9971	350	blend
242.447	0.68	6.3	CH_3OH	14(-1)–13(-2) E	242.4462	248	

Table 12. continued. Molecular lines observed towards G10.47.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
336.701	0.9	8.4	U				sba
336.866	2	11	CH_3OH	12(1)–12(0) A±	336.8651	197	sba
336.918	0.46	9.1	$HCOOCH_3$	26(6,20)–25(6,19) A	336.9181	235	sba
337.062	3.2	8.7	$C^{17}O$	3–2	337.0611	32.4	sba
337.275	0.59		CH_3OH	7(4)–6(4) A+ vt2	337.2735	679	sba blend
337.284	0.91	10	CH_3OH	7(0)–6(0) A+ vt2	337.2842	573	sba sl-blend
337.300	1	11	NH_2CHO	19(2,18)–19(1,19)	337.3002	204	sba sl-blend
337.397	2.3	8	$C^{34}S$	7–6	337.3966	64.8	sba
346.207	0.65	4.8	CH_3OH	5(4)–6(3) A+	346.2044	115	
346.220	0.52	9.7	NS	(7.5,8.5)–(6.5,7.5)	346.2201	71.0	
346.530	0.65	14	SO	9(8)–8(7)	346.5286	78.8	
349.106	1.1		CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.106	0.64		CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.112	0.62		U				blend
349.125	0.91		H_2CCHCN	5(3,3)–6(0,6)	349.1323	26.3	blend
349.128	0.44	7.5	H_2CCHCN	5(3,3)–6(0,6)	349.1323	26.3	
349.215	0.58	14	SO_2	31(10,22)–32(9,23)	349.2268	701	
349.217	0.62	18	SO_2	31(10,22)–32(9,23)	349.2268	701	
349.286	0.82	15	U				
349.286	0.32	15	U				
349.341	0.94	11	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.341	1.1	7.1	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.342	1.2	9.7	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.349	0.65		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.350	0.42		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.352	0.33		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.393	0.52	5.7	CH_3CN	19(3)–18(3)	349.393	232	sl-blend
349.399	0.69	14	C_2H	3.5–2.5	349.4006	41.9	blend
349.400	1.1	14	C_2H	3.5–2.5	349.4006	41.9	blend
349.401	0.82	7.9	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.427	0.73	14	CH_3CN	19(2)–18(2)	349.4266	196	
349.427	0.79	14	CH_3CN	19(2)–18(2)	349.4266	196	sl-blend
349.429	0.4	13	CH_3CN	19(2)–18(2)	349.4266	196	
349.448	0.75		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.449	0.57	19	CH_3CN	19(0)–18(0)	349.4534	168	sl-blend
349.451	0.34	14	CH_3CN	19(0)–18(0)	349.4534	168	blend
349.457	0.62		CH_3CN	19(0)–18(0)	349.4534	168	blend
352.597	1.4	16	OCS	29–28	352.5996	254	blend
352.604	1.2		OCS	29–28	352.5996	254	blend

Table 12. continued. Molecular lines observed towards G10.47 at the offset position (0,20)

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.769	0.77	5.2	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.793	0.91	5.1	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.880	0.19	4.7	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.906	0.23	4.7	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend

Table 13. Molecular lines observed towards G12.21.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
236.217	0.21	6.2	SO_2	16(1,15)–15(2,14)	236.2167	131	
236.256	0.16	6.2	U				
236.514	0.27	8.2	CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
239.067	0.23	2.8	CH_3CN	13(4)–12(4)	239.0643	194	
239.096	0.17	4.5	CH_3CN	13(3)–12(3)	239.0965	144	
239.098	0.16	6.7	CH_3CN	13(3)–12(3)	239.0965	144	
239.119	0.2	6.8	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	0.21	5.1	CH_3CN	13(2)–12(2)	239.1195	109	
239.135	0.21	14	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.136	0.28	9	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.136	0.22	7.9	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.235	0.18	5	CH_3CCH	14(2)–13(2)	239.234	114	
239.250	0.28	7.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.250	0.33	11	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.251	0.32	5.6	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
241.767	1.4	8.6	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.768	1.4	6.4	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.792	1.6	7.1	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.792	1.5	6	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.833	0.32	8.3	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.833	0.31	8.6	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.843	0.34	6	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.843	0.34	6.1	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.879	0.58	6.5	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.880	0.56	7.1	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.889	0.26		CH_3OH	5(2)–4(2) A+	241.8877	72.5	blend
241.889	0.24		CH_3OH	5(2)–4(2) A+	241.8877	72.5	blend
241.905	0.71	7.5	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.905	0.79	6.4	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
336.061	2.3	9	$C^{17}O$	3–2	337.0611	32.4	sba
336.861	0.39		U				sba blend
336.867	0.44		CH_3OH	12(1)–12(0) A±	336.8651	197	sba blend
337.061	2.3	9	$C^{17}O$	3–2	337.0611	32.4	sba
337.397	2.2	3.8	$C^{34}S$	7–6	337.3966	64.8	sba
337.397	2.2	3.8	$C^{34}S$	7–6	337.3966	64.8	sba
346.204	0.27	3.9	CH_3OH	5(4)–6(3) A+	346.2028	115	
346.223	0.33	11	NS	(7.5,8.5)–(6.5,7.5)	346.2201	71.0	
346.529	0.85	11	SO	9(8)–8(7)	346.5286	78.8	
349.338	0.86	9.9	C_2H	4.5–3.5	349.3381	41.9	
349.339	0.96	11	C_2H	4.5–3.5	349.3381	41.9	
349.399	0.64	12	C_2H	3.5 –2.5	349.4006	41.9	
349.399	0.8	12	C_2H	3.5–2.5	349.4006	41.9	
349.446	0.27		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.449	0.33	12	CH_3CN	19(0)–18(0)	349.4534	168	blend
349.454	0.31		CH_3CN	19(0)–18(0)	349.4534	168	blend
352.598	0.42	12	OCS	29–28	352.5996	254	

Table 14. Molecular lines observed towards G29.96.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
216.711	2.4	2.5	H_2S	2(2,0)–2(1,1)	216.7104	84	sba
216.945	0.46	3.3	U				sba
219.559	8.5	2.6	$C^{18}O$	2–1	219.5603	15.8	sba
219.797	0.5	3.2	HNCO	10(0,10)–9(0,9)	219.7983	58	sba
219.949	2	3.2	SO	6(5)–5(4)	219.9494	35	sba
235.880	0.19	3.3	$HCOOCH_3$	19(7,12)–19(7,11) E	235.8872	145	blend
236.064	0.21		$^{13}CH_3OH$	5(2)–4(2) E	236.0620	59.0	blend
236.366	0.2	4.1	$HCOOCH_3$	20(3,18)–19(3,17) A	236.3655	128	
236.506	0.22		$HCOOCH_3$	28(22,6)–29(21,9) A	236.5029	560	blend
236.512	0.76	4.9	HC_3N	26–25	236.5129	153	sl-blend
236.517	0.36		CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	blend
238.972	0.31	5.1	CH_3CN	13(6)–12(6)	238.9723	336	
238.973	0.28	3.4	CH_3CN	13(6)–12(6)	238.9723	336	
239.021	0.27	7.3	CH_3CN	13(5)–12(5)	239.0229	258	sl-blend
239.022	0.26	5	CH_3CN	13(5)–12(5)	239.0229	258	
239.023	0.25	3.4	CH_3CN	13(5)–12(5)	239.0229	258	
239.063	0.3	7.9	CH_3CN	13(4)–12(4)	239.0643	194	
239.063	0.39	5.1	CH_3CN	13(4)–12(4)	239.0643	194	
239.065	0.28	6.3	CH_3CN	13(4)–12(4)	239.0643	194	
239.096	0.48	2.3	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.5	6.8	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.41	6.7	CH_3CN	13(3)–12(3)	239.0965	144	
239.119	0.39	4.8	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	0.46	4.9	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	0.44	5.6	CH_3CN	13(2)–12(2)	239.1195	109	
239.133	0.55		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.134	0.5		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.134	0.4		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.137	0.4		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.48		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.55		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.210	0.3	3.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.211	0.33	2.2	CH_3CCH	14(3)–13(3)	239.2112	149	sl-blend
239.212	0.35	2.3	CH_3CCH	14(3)–13(3)	239.2112	149	
239.233	0.37	5.6	CH_3CCH	14(2)–13(2)	239.234	114	
239.234	0.29	3.9	CH_3CCH	14(2)–13(2)	239.234	114	
239.234	0.32	3.7	CH_3CCH	14(2)–13(2)	239.234	114	
239.247	0.55	3.4	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.248	0.51	3.3	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.248	0.62		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.252	0.54		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.252	0.54	2.3	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.253	0.57	2.2	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
241.767	2.2	2.8	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.767	2.1	4.8	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend

Table 14. continued. Molecular lines observed towards G29.96

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.775	0.52		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.775	0.43	3.8	HNCO	11(0,11)–10(0,10)	241.774	69.6	sl-blend
241.791	2.2	2.4	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	2.2	2.4	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.806	0.3	4.7	CH_3OH	5(4)–4(4) A+	241.8065	115	blend
241.806	0.31		CH_3OH	5(4)–4(4) A+	241.8065	115	blend
241.812	0.3		CH_3OH	5(-4)–4(-4) E	241.8133	122	blend
241.832	0.59	4.7	CH_3OH	5(-4)–4(-4) E	241.8133	122	sl-blend
241.832	0.7	4.2	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.843	0.72	4.2	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.843	0.64	4.7	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.852	0.31		CH_3OH	5(-3)–4(-3) E	241.8524	96.3	blend
241.878	0.97	2.3	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.878	1	5.1	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.887	0.49	4.7	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.888	0.54	4.2	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.904	1.3	3.3	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.909	1.3	3.3	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
336.701	0.48	6.5	U				sba
336.868	0.96	7.3	CH_3OH	12(1)–12(0) A±	336.8638	197	sba
337.061	6.5	3.9	$C^{17}O$	3–2	337.0611	32.4	sba
337.396	3.3	4.1	$C^{34}S$	7–6	337.3966	64.8	sba
346.203	0.28	12	CH_3OH	5(4)–6(3) A+	346.2044	115	blend
346.220	0.49	5.6	NS	(7.5, 8.5)–(6.5,7.5)	346.2201	71.0	
346.528	1.1	6	SO	9(8)–8(7)	346.5286	78.8	
349.104	0.5	8.2	CH_3OH	14(1)–14(0) A±	349.107	260	
349.104	0.42	8.3	CH_3OH	14(1)–14(0) A±	349.107	260	
349.338	2	5.1	C_2H	4.5–3.5	349.3381	41.9	blend
349.339	0.96	3.4	C_2H	4.5–3.5	349.3381	41.9	
349.392	0.39		CH_3CN	19(3)–18(3)	349.393	232	blend
349.399	0.83	5.6	C_2H	3.5–2.5	349.4006	41.9	sl-blend
349.400	1.5	4.7	C_2H	3.5–2.5	349.4006	41.9	blend
349.423	0.32		CH_3CN	19(2)–18(2)	349.4266	196	blend
349.427	0.28	7.5	CH_3CN	19(2)–18(2)	349.4266	196	
349.444	0.33		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.445	0.43		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.452	0.28		CH_3CN	19(0)–18(0)	349.4534	168	blend
349.454	0.31		CH_3CN	19(0)–18(0)	349.4534	168	blend
352.289	0.3		$HCOOCH_3$	30(4,27)–29(4,26) A	352.2928	281	blend
352.336	0.89	4.5	U				
352.398	1.2	5.1	$HCOOCH_3$	38(10,29)–38(8,30) A	352.408	508	
352.565	0.42	4.9	U				
352.631	0.34	6.7	U				

Table 14. continued.Molecular lines observed towards G29.96 at the offset position (0,20)

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.766	0.3	2.9	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.790	0.31	1.6	CH_3OH	5(0)–4(0) A+	241.7914	34.8	

Table 15. Molecular lines observed towards G31.41.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
216.711	1.6	4.4	H_2S	2(2,0)–2(1,1)	216.7104	84	
216.711	1.6	4.4	H_2S	2(2,0)–2(1,1)	216.7104	84	
216.830	0.41	3.1	U				
216.830	0.45	4.2	U				
216.839	0.44	3.7	$HCOOCH_3$	18(2,16)–17(2,15) A	216.8388	106	blend
216.839	0.43	6.1	$HCOOCH_3$	18(2,16)–17(2,15) A	216.8388	106	blend
216.945	0.83	3.7	CH_3OH	5(1)–4(2) E	216.9456	54.7	
216.946	0.89	3.2	CH_3OH	5(1)–4(2) E	216.9456	54.7	
216.966	0.63	5.3	$HCOOCH_3$	20(0,20)–19(1,19) A	216.9641	111	blend
216.966	0.63	5.8	$HCOOCH_3$	20(0,20)–19(1,19) A	216.9641	111	blend
217.105	0.51	7.4	SiO v0	5–4	217.1049	20.3	
219.505	0.33	6.5	C_2H_5CN	24(2,22)–23(2,21)	219.5056	136	
219.506	0.43	3.3	C_2H_5CN	24(2,22)–23(2,21)	219.5056	136	
219.560	5.9	4.4	$C^{18}O$	2–1	219.5603	15.8	
219.561	6	4.9	$C^{18}O$	2–1	219.5603	15.8	
219.797	0.5	6.2	HNCO	10(0,10)–9(0,9)	219.7983	58	
219.798	0.49	7.3	HNCO	10(0,10)–9(0,9)	219.7983	58	
219.908	0.48	6	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	
219.909	0.66	3.9	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	
219.950	2.2	5.1	SO	6(5)–5(4)	219.9494	35	
219.950	2.2	5.2	SO	6(5)–5(4)	219.9494	35	
220.078	1.3	4	H_2CCHCN	15(3,12)–15(2,13)	220.0689	74.2	
220.079	1.1	3.6	H_2CCHCN	15(3,12)–15(2,13)	220.0689	74.2	
235.801	0.45	4.6	U				
235.845	0.39	4.5	$HCOOCH_3$	19(7,13)–18(7,12) A	235.8447	145	
235.882	0.58	5.4	U				sl-blend
235.888	0.43		$HCOOCH_3$	19(7,12)–19(7,11) E	235.8872	145	blend
235.933	0.43		$HCOOCH_3$	19(7,12)–18(7,11) A	235.9326	145	blend
235.939	0.41		$HCOOCH_3$	11(4,7)–10(3,8) E	235.9346	49.8	blend
235.960	0.31	4.1	SiS v0	13–12	235.9609	79.3	
235.971	0.26	3.8	$^{13}CH_3OH$	5(4)–4(4) A+	235.9711	115	blend
235.997	0.37	4.1	$^{13}CH_3OH$	5(4)–4(4) E	235.9944	129	
			$^{13}CH_3OH$	5(3)–4(3) A+	235.9970	84.0	blend *
236.050	0.37		$^{13}CH_3OH$	5(2)–4(2) A+	236.0495	71.8	blend
236.008	0.25	3.8	$^{13}CH_3OH$	5(3)–4(3) E	236.0061	81.0	
			$^{13}CH_3OH$	5(2)–4(2) A-	236.0084	71.8	*
236.513	0.82	5.8	CH_3CHO	7(3,4)–7(2,6)	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
238.907	0.2		$CH_3{}^{13}CN$	13(5)–12(5)	238.905	259	blend
238.911	0.35	5.9	CH_3CN	13(7)–12(7)	238.9126	428	
238.913	0.57	5.6	CH_3CN	13(7)–12(7)	238.9126	428	sl-blend
238.925	0.43	7	$CH_3{}^{13}CN$	13(4)–12(4)	238.9462	195	
238.972	0.41	5.6	CH_3CN	13(6)–12(6)	238.9723	336	sl-blend
238.972	0.5	6.1	CH_3CN	13(6)–12(6)	238.9723	336	sl-blend
238.973	0.49	6.1	CH_3CN	13(6)–12(6)	238.9723	336	
238.979	0.3		$CH_3{}^{13}CN$	13(3)–12(3)	238.9783	145	blend
238.979	0.32	6.5	$CH_3{}^{13}CN$	13(3)–12(3)	238.9783	145	sl-blend
239.016	0.37		$CH_3{}^{13}CN$	13(0)–12(0)	239.0195	80.3	blend
239.020	0.38		$CH_3{}^{13}CN$	13(0)–12(0)	239.0195	80.3	blend
239.021	0.41	6.8	CH_3CN	13(5)–12(5)	239.0229	258	
239.022	0.61	4	CH_3CN	13(5)–12(5)	239.0229	258	sl-blend

Table 15. continued. Molecular lines observed towards G31.41

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
239.023	0.35		CH_3CN	13(5)–12(5)	239.0229	258	blend
239.064	0.62	5.7	CH_3CN	13(4)–12(4)	239.0643	194	blend
239.065	0.61	7	CH_3CN	13(4)–12(4)	239.0643	194	
239.065	0.74	4.5	CH_3CN	13(4)–12(4)	239.0643	194	
239.073	0.43		U				blend
239.096	0.94	6.5	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.69	4.1	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.76	6.6	CH_3CN	13(3)–12(3)	239.0965	144	
239.119	0.66	6.1	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	0.76	4.6	CH_3CN	13(2)–12(2)	239.1195	109	
239.120	0.76	4.9	CH_3CN	13(2)–12(2)	239.1195	109	
239.133	0.81		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.133	0.84		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.134	0.84		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.138	1		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.88		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.79		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.211	0.5	3.2	CH_3CCH	14(3)–13(3)	239.2112	149	
239.211	0.52	3.8	CH_3CCH	14(3)–13(3)	239.2112	149	
239.211	0.47		CH_3CCH	14(3)–13(3)	239.2112	149	blend
239.216	0.57		CH_3CHO	11(3,8)–11(1,10) E	239.2238	81.5	blend
239.227	0.36		CH_3CHO	11(3,8)–11(1,10) E	239.2238	81.5	sl-blend
236.050	0.37		$HCOOCH_3$	30(23,8)–31(22,9) A	239.2311	625	blend
239.233	0.54	5	CH_3CCH	14(2)–13(2)	239.234	114	sl-blend
239.234	0.51	4.1	CH_3CCH	14(2)–13(2)	239.234	114	
239.234	0.5		CH_3CCH	14(2)–13(2)	239.234	114	blend
239.247	0.64		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.248	0.91		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.248	0.56		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.252	0.74		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.252	0.92		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.252	0.61		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
241.767	2.3	6.1	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.768	2.4	6.3	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.791	2.5	6.8	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.792	2.3	5.4	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.807	0.94		CH_3OH	5(4)–4(4) A+	241.8065	115	blend
241.807	0.99		CH_3OH	5(4)–4(4) A+	241.8065	115	blend
241.814	0.81		CH_3OH	5(-4)–4(-4) E	241.8133	122	blend
241.814	0.67		CH_3OH	5(-4)–4(-4) E	241.8133	122	blend
241.833	1.4	5.8	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.833	1.5	6.3	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.843	1.5	5.3	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.843	1.5	5.7	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.853	0.97	4.7	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	sl-blend
241.853	1.1	3.4	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	sl-blend
241.879	1.8e+03	4.7	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.879	1.8	5.3	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.888	1.2	4.7	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.888	1.4	6.3	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.904	2.1	5.3	CH_3OH	5(2)–4(2) E	241.9046	55.9	blend
241.904	2.3	5.1	CH_3OH	5(2)–4(2) E	241.9046	55.9	blend
241.947	0.72	4.3	$(CH_3)_2O$	13(1,13)–12(0,12) AA	241.9462	11.6	
241.947	0.77	4.5	$(CH_3)_2O$	13(1,13)–12(0,12) AA	241.9462	11.6	
241.959	0.34	4.6	C_2H_5CN	27(12,16)–26(12,15)	241.9591	322	blend
242.446	0.41	6.3	CH_3OH	14(-1)–13(-2) E	242.4462	247	blend
242.446	0.68	3.4	CH_3OH	14(-1)–13(-2) E	242.4462	247	blend
333.681	0.61	8.4	$^{34}SO_2$	15(7,9)–16(6,10)	333.6851	226	sba

Table 15. continued. Molecular lines observed towards G31.41

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
333.992	0.88	4.2	$S^{18}O$	3(3)–3(2)	333.9915	24.7	sba
334.238	0.41	2.3	$HCOOCH_3$	29(5,24)–28(6,23)	334.2353	282	sba
336.701	0.54	6	U				sba
336.865	1.6	6.8	U				sba
336.919	0.51	5.2	$HCOOCH_3$	26(6,20)–25(6,19)	336.9181	235	sba
337.062	3.8	5.9	$C^{17}O$	3–2	337.0611	32.4	sba
337.397	4.7	3.4	$C^{34}S$	7–6	337.3966	64.8	sba
337.424	0.86	7.6	H_2NCN v=1	17(1,17)–16(1,16)	337.4278	160	sba
346.528	0.74	6.7	SO	9(8)–8(7)	346.5286	78.8	
349.104	0.82	15	CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.104	0.58	8.8	CH_3OH	14(1)–14(0) A±	349.107	260	
349.286	0.54	7.2	CH_3CN	19(5)–18(5)	349.2858	347	blend
349.338	1.2	5.9	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.338	1.1	5.9	C_2H	4.5–3.5	349.3381	41.9	sl-blend
349.346	0.36		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.348	0.49		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.398	0.8	7.8	C_2H	3.5–2.5	349.4006	41.9	blend
349.399	1	7.8	C_2H	3.5–2.5	349.4006	41.9	blend
349.428	0.43	7.2	CH_3CN	19(2)–18(2)	349.4266	196	sl-blend
349.451	0.61	14	CH_3CN	19(0)–18(0)	349.4534	168	blend
352.283	0.37	3.9	$HCOOCH_3$	30(4,27)–29(4,26) A	352.2928	281	sl-blend
352.415	0		$HCOOCH_3$	30(3,27)–29(3,26) A	352.4144	281	blend
352.596	0		OCS	29–28	352.5996	254	blend

Table 15. continued. Molecular lines observed towards G31.41 at the offset position (0,20)

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.767	0.32	2.6	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.792	0.32	3.2	CH_3OH	5(0)–4(0) A+	241.7914	34.8	

Table 16. Molecular lines observed towards G34.26.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column.All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
216.568	0.44	5.3	H_2CO	9(1,8)–9(1,9)	216.5686	174	
216.568	0.48	4.9	H_2CO	9(1,8)–9(1,9)	216.5686	174	
216.581	0.27	2.7	CH_3CHO	11(1,10)–10(1,9) E	216.5806	64.9	
216.581	0.21	4.2	CH_3CHO	11(1,10)–10(1,9) E	216.5806	64.9	
216.631	0.25	4.6	CH_3CHO	11(1,10)–10(1,9) A	216.6301	64.8	
216.631	0.23	5.3	CH_3CHO	11(1,10)–10(1,9) A	216.6301	64.8	
216.643	1.4	4.7	SO_2	22(2,20)–22(1,21)	216.6433	248	blend
216.643	0.51	4.2	SO_2	22(2,20)–22(1,21)	216.6433	248	
216.710	3.7	3.9	H_2S	2(2,0)–2(1,1)	216.7104	84	blend
216.710	3.2	5.8	H_2S	2(2,0)–2(1,1)	216.7104	84	
216.828	0.35	3.3	U				sl-blend
216.830	0.48	5	U				sl-blend
216.838	0.36	4.5	$HCOOCH_3$	18(2,16)–17(2,15) A	216.8388	106	sl-blend
216.838	0.41	5.5	$HCOOCH_3$	18(2,16)–17(2,15) A	216.8388	106	blend
216.945	1.4	4.6	CH_3OH	5(1)–4(2) E	216.9456	54.7	
216.945	1.6	4.7	CH_3OH	5(1)–4(2) E	216.9456	54.7	
216.966	0.99	6.2	$HCOOCH_3$	20(0,20)–19(1,19)	216.9641	111	blend
216.966	1.3	5.3	$HCOOCH_3$	20(0,20)–19(1,19)	216.9641	111	blend
217.043	0.2	7.3	U				
217.043	0.23	2.8	U				
217.105	1.6	4.7	SiO v0	5–4	217.1049	20.3	
219.399	0.34	3.7	$HCOOCH_3$	7(5,3)–7(3,4)	219.3922	33.1	
219.409	0.2	5	U				
219.506	0.27	3.3	C_2H_5CN	24(2,22)–23(2,21)	219.5056	136	
219.506	0.37	3.5	C_2H_5CN	24(2,22)–23(2,21)	219.5056	136	
219.561	9.2	3.6	$C^{18}O$	2–1	219.5603	15.8	
219.561	11	4.5	$C^{18}O$	2–1	219.5603	15.8	
219.735	0.23		HNCO	10(2,9)–9(2,8)	219.7338	228	blend
219.738	0.3		HNCO	10(2,8)–9(2,7)	219.7372	228	blend
219.798	0.81	4.6	HNCO	10(0,10)–9(0,9)	219.7983	58	
219.908	0.46	5.3	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	
219.908	0.48	4.9	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	
219.949	3.8	4.6	SO	6(5)–5(4)	219.9494	35	
219.950	4.4	5	SO	6(5)–5(4)	219.9494	35	
220.078	1.3	4.6	CH_3OH	8(0)–7(1) E	220.0786	95.4	
220.078	1.6	5.8	CH_3OH	8(0)–7(1) E	220.0786	95.4	
235.844	0.45	5.3	$HCOOCH_3$	19(7,13)–18(7,12) A	235.8447	145	
235.866	0.28	4.7	$HCOOCH_3$	19(7,13)–18(7,12) E	235.8659	145	
235.881	0.64	7.3	$HCOOCH_3$	19(7,12)–19(7,11) E	235.8872	145	blend
235.903	0.43	4	U				
235.936	0.67	7.9	$HCOOCH_3$	11(4,7)–10(3,8) E	235.9346	49.8	*
			$HCOOCH_3$	19(7,12)–18(7,11) A	235.9326	145	
235.952	0.28	2.6	U				
235.959	0.59	6	SiS v0	13–12	235.9609	79.3	
235.970	0.37	3.7	$^{13}CH_3OH$	5(4)–4(4) A+	235.9711	115	blend
235.983	0.31	8.7	$^{13}CH_3OH$	5(-4)–4(-4) E	235.9786	121	
235.997	0.67	5.9	$^{13}CH_3OH$	5(4)–4(4) E	235.9944	129	
			$^{13}CH_3OH$	5(3)–4(3) A+	235.9970	84.0	blend *
236.007	0.46	5.3	$^{13}CH_3OH$	5(3)–4(3) E	236.0061	81.0	
			$^{13}CH_3OH$	5(2)–4(2) A-	236.0084	71.8	*
236.016	0.32	2	$^{13}CH_3OH$	5(-3)–4(-3) E	236.0165	96.0	
236.042	0.57		$^{13}CH_3OH$	5(1)–4(1) E	236.0414	54.1	blend
236.062	0.7		$^{13}CH_3OH$	5(2)–4(2) E	236.0620	59.0	blend
			$^{13}CH_3OH$	5(-2)–4(-2) E	236.0628	55.4	blend
236.512	1.9	6.4	CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
238.845	0.31	4.1	CH_3CN	13(8)–12(8)	238.8437	535	
238.870	0.28	7.5	U				
238.891	0.28	5.3	U				

Table 16. continued. Molecular lines observed towards G34.26.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
238.907	0.99		$CH_3{}^{13}CN$	13(5)–12(5)	238.905	259	blend
238.913	1.1	7.6	CH_3CN	13(7)–12(7)	238.9126	428	blend
238.913	0.48	3.2	CH_3CN	13(7)–12(7)	238.9126	428	
238.914	0.76	5.8	CH_3CN	13(7)–12(7)	238.9126	428	
238.925	0.81	8	$HCOOCH_3$	20(3,18)–19(2,17) A	238.9326	128	
238.929	0.88	3.9	$HCOOCH_3$	20(3,18)–19(2,17) A	238.9326	128	
238.946	0.32	5.5	$CH_3{}^{13}CN$	13(4)–12(4)	238.9462	195	
238.947	0.31	5	$CH_3{}^{13}CN$	13(4)–12(4)	238.9462	195	
238.972	1.1		CH_3CN	13(6)–12(6)	238.9723	336	blend
238.972	0.91	4.1	CH_3CN	13(6)–12(6)	238.9723	336	blend
238.972	1.2	4.3	CH_3CN	13(6)–12(6)	238.9723	336	
238.975	0		$CH_3{}^{13}CN$	13(3)–12(3)	238.9783	145	blend
238.979	0.44		$CH_3{}^{13}CN$	13(3)–12(3)	238.9783	145	blend
238.980	0.25	4	$CH_3{}^{13}CN$	13(3)–12(3)	238.9783	145	
238.993	0.46	7.4	SO_2	21(7,15)–22(6,16)	238.9926	333	
239.002	0.28	3.4	$CH_3{}^{13}CN$	13(2)–12(2)	239.0012	109	
239.012	0.32	3.9	$CH_3{}^{13}CN$	13(0)–12(0)	239.0195	80.3	sl-blend
239.021	0.85	6.9	CH_3CN	13(5)–12(5)	239.0229	258	
239.021	1.2	8.3	CH_3CN	13(5)–12(5)	239.0229	258	
239.021	0.88	8.5	CH_3CN	13(5)–12(5)	239.0229	258	sl-blend
239.063	1.9	5.2	CH_3CN	13(4)–12(4)	239.0643	194	
239.064	1.1	6	CH_3CN	13(4)–12(4)	239.0643	194	blend
239.064	1.3	4	CH_3CN	13(4)–12(4)	239.0643	194	
239.072	0.51	4.9	U				blend
239.095	1.7	6.6	CH_3CN	13(3)–12(3)	239.0965	144	
239.096	1.3	6.5	CH_3CN	13(3)–12(3)	239.0965	144	
239.096	1.6	6	CH_3CN	13(3)–12(3)	239.0965	144	
239.119	1.3	5.3	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	1.2	6	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	1.6	7.5	CH_3CN	13(2)–12(2)	239.1195	109	
239.133	1.9		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.135	1.9	8.9	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.136	1.8	12	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.137	2		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.178	0.53	5.2	CH_3CCH	14(4)–13(4)	239.1793	198	
239.211	0.82	5.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.211	0.79		CH_3CCH	14(3)–13(3)	239.2112	149	blend
239.212	0.6	5.3	CH_3CCH	14(3)–13(3)	239.2112	149	
239.228	0.41	2.7	CH_3CHO	11(3,8)–11(1,10) E	239.2238	81.5	sl-blend
239.229	0.43		CH_3CHO	11(3,8)–11(1,10) E	239.2238	81.5	blend
239.233	1	8.6	CH_3CCH	14(2)–13(2)	239.234	114	blend
239.233	0.89	4.2	CH_3CCH	14(2)–13(2)	239.234	114	sl-blend
239.234	0.64		CH_3CCH	14(2)–13(2)	239.234	114	blend
239.249	1.4		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.250	1.4	9.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.251	1.1		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
239.253	1.1		CH_3CCH	14(0)–13(0)	239.2523	86.1	blend
241.767	5.1	4.8	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.768	4.7	6.3	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	blend
241.774	0.9	3.9	HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.774	1.1	4.2	HNCO	11(0,11)–10(0,10)	241.774	69.6	sl-blend
241.792	5.5	5.4	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.792	5.5	6.1	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.805	1.6	5.9	CH_3OH	5(4)–4(4) A+	241.8065	115	sl-blend

Table 16. continued. Molecular lines observed towards G34.26.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.806	1.3	7.3	CH_3OH	5(4)–4(4) A-	241.8065	115	blend
241.812	1.1	3.8	CH_3OH	5(-4)–4(-4) E	241.8133	122	blend
241.813	1.1	3.4	CH_3OH	5(-4)–4(-4) E	241.8133	122	sl-blend
241.832	2.3	7.2	CH_3OH	5(4)–4(4) E	241.8296	130	
241.832	2.5	7.2	CH_3OH	5(4)–4(4) E	241.8296	130	
241.842	2.4	7.1	CH_3OH	5(2)–4(2) A-	241.8423	72.5	sl-blend
241.843	2.4	7.2	CH_3OH	5(2)–4(2) A-	241.8423	72.5	blend
241.851	1.5	6.3	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	
241.852	1.4	6.6	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	sl-blend
241.879	2.7	5.3	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.880	2.8	5.4	CH_3OH	5(1)–4(1) E	241.8791	54.7	sl-blend
241.887	1.8	6.3	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.887	2	5.4	CH_3OH	5(2)–4(2) A+	241.8877	72.5	sl-blend
241.904	3.6	6.5	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.905	3.7	5.3	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.934	0.38	5.4	C_2H_5CN	27(9,19)–26(9,18)	241.9322	253	blend
241.945	0.77	5.9	$(CH_3)_2O$	13(1,13)–12(0,12) AA	241.9462	11.6	
241.946	0.8	4.7	$(CH_3)_2O$	13(1,13)–12(0,12) AA	241.9462	11.6	
241.961	0.34	3.6	C_2H_5CN	27(12,16)–26(12,15)	241.9591	322	blend
241.971	0.45	3	C_2H_5CN	27(8,20)–26(8,19)	241.9704	234	blend
242.446	1.3	5.3	CH_3OH	14(-1)–13(-2) E	242.4462	248	
242.446	1.3	4	CH_3OH	14(-1)–13(-2) E	242.4462	248	
333.902	1.1	5.3	^{34}SO	7(8)–6(7)	333.901	79.9	sba
334.426	1.4	6.5	CH_3OH	3(0)–2(1) E vt1	334.4266	313	sba
336.864	3.8	9.7	CH_3OH	12(1)–12(0) A±	336.8651	197	sba blend
336.888	0.5	6.8	U				sba
336.918	0.79	8.7	$HCOOCH_3$	26(6,20)–25(6,19)	336.9181	235	sba
337.061	9.1	6.4	C17O	3–2	337.0611	32.4	sba
337.097	0.98	3.2	U				sba
337.134	1.4	7.1	CH_3OH	4(2)–3(3) E	337.1359	60.5	sba blend
337.271	0.79		CH_3OH	7(4)–6(4) A+, A- vt2	337.273	678	sba blend
337.284	1.1		CH_3OH	7(0)–6(0) A+ vt2	337.2842	573	sba blend
337.296	1.8	9.7	CH_3OH	7(3)–6(3) E vt2	337.2958	685	sba blend
337.311	0.86	6.4	CH_3OH	7(-1)–6(-1) E vt2	337.3123	596	sba
337.347	1.1	5.2	C_2H_5CN	38(3,36)–37(3,35)	337.3470		sba
337.396	6.9	7.5	$C^{34}S$	7–6	337.3966	64.8	sba
337.420	1.8	5.8	H_2NCN v=1	17(1,17)–16(1,16)	337.4278	140	sba

Table 16. continued. Molecular lines observed towards G34.26.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
346.203	1.8	7.5	CH_3OH	5(4)–6(3) A+	346.2044		
346.220	2.2	7.5	NS	(7.5,8.5)–(6.5,7.5)	346.2201	71.0	
346.527	4.4	9	SO	9(8)–8(7)	346.5286	78.8	
346.651	1.8	6.4	SO_2	19(1,19)–18(0,18)	346.6522	168	
349.025	0.96	4.9	CH_3CN	19(8)–18(8)	349.0249	625	
349.104	4.2	11	CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.105	2.7	9.9	CH_3OH	14(1)–14(0) A±	349.107	260	
349.106	4.8	11	CH_3OH	14(1)–14(0) A±	349.107	260	blend
349.125	0.61	5.4	CH_3CN	19(7)–18(7)	349.1251	518	
349.126	1	12	CH_3CN	19(7)–18(7)	349.1251	518	
349.126	0.75	3	CH_3CN	19(7)–18(7)	349.1251	518	
349.211	1.2	7.8	CH_3CN	19(6)–18(6)	349.2121	425	
349.212	1.2	6.8	CH_3CN	19(6)–18(6)	349.2121	425	
349.212	1.2	7.4	CH_3CN	19(6)–18(6)	349.2121	425	
349.274	0.89	5.5	U				
349.275	0.53	4.8	U				
349.285	2.1	9.3	CH_3CN	19(5)–18(5)	349.2858	347	
349.286	1.6	8.1	CH_3CN	19(5)–18(5)	349.2858	347	
349.286	1.4	4.9	CH_3CN	19(5)–18(5)	349.2858	347	
349.338	3.3		C_2H	4.5–3.5	349.3381	41.9	blend
349.339	2.9		C_2H	4.5–3.5	349.3381	41.9	blend
349.339	3.2		C_2H	4.5–3.5	349.3381	41.9	blend
349.343	2		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.345	1.8		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.346	2.1		CH_3CN	19(4)–18(4)	349.3461	282	blend
349.392	2.3		CH_3CN	19(3)–18(3)	349.393	232	blend
349.392	2.9		CH_3CN	19(3)–18(3)	349.393	232	blend
349.393	2		CH_3CN	19(3)–18(3)	349.393	232	blend
349.398	2.7		C_2H	3.5–2.5	349.4006	41.9	blend
349.400	2.6		C_2H	3.5–2.5	349.4006	41.9	blend
349.400	2.6		C_2H	3.5–2.5	349.4006	41.9	blend
349.426	1.8	9.9	CH_3CN	19(2)–18(2)	349.4266	196	
349.426	1.8	8.2	CH_3CN	19(2)–18(2)	349.4266	196	
349.426	1.8	7.8	CH_3CN	19(2)–18(2)	349.4266	196	
349.445	2.2		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.445	2.3		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.447	2.3		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.451	2.3		CH_3CN	19(0)–18(0)	349.4534	168	blend
349.451	2.4		CH_3CN	19(0)–18(0)	349.4534	168	blend
349.452	2		CH_3CN	19(0)–18(0)	349.4534	168	blend
349.548	0.72	2.3	U				
352.291	0.61	6	$HCOOCH_3$	30(4,27)–29(4,26) A	352.2928	281	blend
352.404	0.44	2	$HCOOCH_3$	38(10,29)–38(8,30) A	352.408	508	
352.597	0		OCS	29–28	352.5996	254	blend
353.598	0		OCS	29–28	352.5996	254	blend

Table 16. continued. Molecular lines observed towards G34.26 at offset positions. The lines before the break were observed at (0,20) offset from the centre position and the lines after the break were observed at (20,0) offset from the centre position.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
239.211	0.16	3.9	CH_3CCH	14(3)–13(3)	239.2112	149	
239.234	0.21	3.3	CH_3CCH	14(2)–13(2)	239.234	114	
239.248	0.38	3.9	CH_3CCH	14(1)–13(1)	239.2477	93.1	
239.252	0.43	3.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	
241.767	3	2.6	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.774	0.25	2.2	HNCO	11(0,11)–10(0,10)	241.774	69.6	
241.791	3.4	3.9	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.833	0.2	2.5	CH_3OH	5(4)–4(4) E	241.8296	130	
241.842	0.2	4.3	CH_3OH	5(2)–4(2) A-	241.8423	72.5	blend
241.879	0.71	2.9	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.887	0.2	3.8	CH_3OH	5(2)–4(2) A+	241.8877	72.5	
241.904	1.1	3.4	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
239.249	0.28	3	CH_3CCH	14(1)–13(1)	239.2477	93.1	
239.253	0.44	3	CH_3CCH	14(0)–13(0)	239.2523	86.1	

Table 17. Molecular lines observed towards G75.78.
The measured parameters of observed frequency ν(obs), peak temperature T_R^* and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. Some $HCOOCH_3$, C_2H_5OH and H_2CCHCN lines are blends of two or more transitions of the same frequency and are indicated as such by blend in the Notes column. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
216.341	0.35	3.4	U				sba
216.643	0.16	4.3	SO_2	22(2,20)–22(1,21)	216.6433	248	sba
216.710	0.36	4.3	H_2S	2(2,0)–2(1,1)	216.7104	84	sba
219.475	0.21	2.9	SO_2 v2=1	22(2,20)–22(1,21)	219.4656	249	sba
219.560	3.8	3.8	$C^{18}O$	2–1	219.5603	15.8	sba
219.798	0.2	4.9	HNCO	10(0,10)–9(0,9)	219.7983	58	*
			C_2H_5OH	9(8,2)–10(7,3)	216.6266	105	blend
219.909	0.15	2.4	$H_2{}^{13}CO$	3(1,2)–2(1,1)	219.9085	32.9	*
			$HCOOCH_3$	34(9,26)–34(8,27) A	216.5181	387	
219.950	2.8	3.8	SO	6(5)–5(4)	219.9494	35	sba
236.216	0.45	4.4	SO_2	16(1,15)–15(2,14)	236.2167	131	sl-blend
236.513	0.47	2.9	CH_3CHO	7(3,4)–7(2,6) E	236.5171	46.3	*
			HC_3N	26–25	236.5129	153	
239.097	0.22	4.8	CH_3CN	13(3)–12(3)	239.0965	144	
239.097	0.15	2.9	CH_3CN	13(3)–12(3)	239.0965	144	
239.098	0.13	5.3	CH_3CN	13(3)–12(3)	239.0965	144	
239.118	0.15	4.8	CH_3CN	13(2)–12(2)	239.1195	109	
239.119	0.18	3.9	CH_3CN	13(2)–12(2)	239.1195	109	
239.120	0.19	2.9	CH_3CN	13(2)–12(2)	239.1195	109	
239.133	0.14		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.134	0.21		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.135	0.2		CH_3CN	13(1)–12(1)	239.1333	87.4	blend
239.137	0.15		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.23		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.138	0.32		CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.211	0.16	3.8	CH_3CCH	14(3)–13(3)	239.2112	149	
239.211	0.2	2.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.211	0.18	2.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.233	0.15	4.3	CH_3CCH	14(2)–13(2)	239.234	114	
239.233	0.17	4.3	CH_3CCH	14(2)–13(2)	239.234	114	
239.234	0.28	3	CH_3CCH	14(2)–13(2)	239.234	114	
239.247	0.31	2.4	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.247	0.27	2.9	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.247	0.38	2.4	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.252	0.31	2.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.252	0.39	2.2	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.252	0.39	2.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
241.767	1.4	4.1	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.768	1.6	3.6	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.774	0.31		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.774	0.32		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.791	1.6	3.6	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	1.6	4	CH_3OH	5(0)–4(0) A+	241.7914	34.8	

Table 17. continued. Molecular lines observed towards G75.78.

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.807	0.17	3.3	CH_3OH	5(4)–4(4) A-	241.8065	115	sl-blend
241.814	0.22	1.2	CH_3OH	5(-4)–4(-4) E	241.8133	122	sl-blend
241.833	0.38	3.2	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.833	0.31	6.5	CH_3OH	5(4)–4(4) E	241.8296	130	sl-blend
241.843	0.32	4	CH_3OH	5(3)–4(3) E	241.8436	81.3	sl-blend
241.844	0.29	3.6	CH_3OH	5(3)–4(3) E	241.8436	81.3	sl-blend
241.853	0.22	4.9	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	sl-blend
241.853	0.12	3.4	CH_3OH	5(-3)–4(-3) E	241.8524	96.3	sl-blend
241.879	0.6	2.8	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.879	0.46	2.4	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.888	0.19	5.3	CH_3OH	5(2)–4(2) A+	241.8877	72.5	
241.888	0.21	4.1	CH_3OH	5(2)–4(2) A+	241.8877	72.5	
241.904	0.67	3.6	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.904	0.69	4	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
333.778	0.21	3.8	$HCOOCH_3$	25(8,18)–25(6,19) A	333.7782	235	sba
333.889	0.31	3.4	$HCOOCH_3$	37(13,24)–37(12,25) A	333.8968	528	sba sl-blend
333.894	0.19		^{34}SO	7(8)–6(7)	333.901	79.9	sba blend
336.866	0.57	6.8	CH_3OH	12(1)–12(0) A±	336.8651	197	sba
337.061	3	5.2	$C^{17}O$	3–2	337.0611	32.4	sba
337.397	1.1	5.8	$C^{34}S$	7–6	337.3966	64.8	sba
346.205	0.21	5.2	CH_3OH	5(4)–6(3) A+	346.2044	115	
346.219	0.23	4.7	NS	(7.5,8.5)–(6.5,7.5)	346.2201	71.0	
346.528	2.9	7.4	SO	9(8)–8(7)	346.5286	78.8	sl-blend
346.538	0.35		U				blend
346.652	0.76	7.5	SO_2	19(1,19)–18(0,18)	346.6522	168	
349.107	0.39	6.4	CH_3OH	14(1)–14(0) A±	349.107	260	
349.108	0.54	6.2	CH_3OH	14(1)–14(0) A±	349.107	260	
349.338	1.6	5.9	C_2H	4.5–3.5	349.3381	41.9	
349.339	1.8	5.6	C_2H	4.5–3.5	349.3381	41.9	
349.399	1.3	5	C_2H	3.5–2.5	349.4006	41.9	
349.400	1.3	6	C_2H	3.5–2.5	349.4006	41.9	
349.428	0.16	7.4	CH_3CN	19(2)–18(2)	349.4266	196	
349.447	0.33		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.447	0.28		CH_3CN	19(1)–18(1)	349.4467	175	blend
349.454	0.27		CH_3CN	19(0)–18(0)	349.4534	168	blend
349.456	0.3		CH_3CN	19(0)–18(0)	349.4534	168	blend

Table 18. Molecular lines observed towards the line poor sources. The measured parameters of observed frequency ν(obs), peak temperature T^*_R and linewidth $\Delta\nu_{1/2}$ are given for each line. Each independent detection of a particular line is given. The species, transition, rest frequency and upper level energy (E_u/k) are given for identified lines.. The Notes column gives further information about the line in the form of one or more codes representing whether the line is blended (blend), self-absorbed (self-abs) or has a sideband ambiguity (sba). Where it has been possible to extract lines from blends these lines are indicated by sl-blend. All possibilities for uncertain detections are given, with the most likely indicated by an asterisk (*).

Molecular lines observed towards G10.30

ν(obs) (GHz)	T^*_R (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
239.234	0.13	6.1	CH_3CCH	14(2)–13(2)	239.234	114	
239.247	0.2	3.4	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.248	0.23	2.8	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.248	0.23	2.3	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.253	0.27	3.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.253	0.28	4	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.253	0.26	2.2	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
241.768	1.6	3.7	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.768	1.3	4.2	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.774	0.36		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.792	1.7	3.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.792	1.5	3.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.880	0.39	2.8	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.880	0.43	2.8	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.905	0.51	3.7	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.905	0.52	3.7	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
337.061	3.5	4.1	$C^{17}O$	3–2	337.0611	32.4	sba

Table 18. continued. Molecular lines observed towards G13.87

ν(obs) (GHz)	T^*_R (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
239.247	0.17	3.6	CH_3CCH	14(1)–13(1)	239.2477	93.1	
239.247	0.14	2.6	CH_3CCH	14(1)–13(1)	239.2477	93.1	
239.252	0.22	2.5	CH_3CCH	14(0)–13(0)	239.2523	86.1	
239.252	0.19	3.8	CH_3CCH	14(0)–13(0)	239.2523	86.1	
241.766	0.79	2.7	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.767	0.9	3	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.791	1	2.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	0.99	2.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.904	0.23	3	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.904	0.22	3	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
337.061	6.9	2.4	$C^{17}O$	3–2	337.0611	32.4	sba
337.395	2.5	3.9	$C^{34}S$	7–6	337.3966	64.8	sba

Table 18. continued. Molecular lines observed towards G43.89

ν(obs) (GHz)	T^*_R (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
219.559	3.8	2.3	$C^{18}O$	2–1	219.5603	15.8	sba
219.948	0.35	2.6	SO	6(5)–5(4)	219.9494	35	sba
241.767	0.61	4.2	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.767	0.61	4.2	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	sl-blend
241.772	0.29		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.772	0.29		HNCO	11(0,11)–10(0,10)	241.774	69.6	blend
241.791	0.6	3.3	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	0.6	3.3	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
337.060	1.2	3.7	$C^{17}O$	3–2	337.0611	32.4	sba

Table 18. continued. Molecular lines observed towards G45.12

ν(obs) (GHz)	T^*_R (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.766	0.26	2.7	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.767	0.25	4.7	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.790	0.26	4.3	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	0.23	4.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	

Table 18. continued. Molecular lines observed towards G45.45

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
241.766	0.21	2.8	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.767	0.21	7.5	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.790	0.26	4.2	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.790	0.22	5.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	

Table 18. continued. Molecular lines observed towards G45.47

ν(obs) (GHz)	T_R^* (K)	$\Delta\nu_{1/2}$ (MHz)	Species	Transition	ν(rest) (GHz)	E_u/k (K)	Notes
239.136	0.13	3.4	CH_3CN	13(0)–12(0)	239.1379	80.3	blend
239.210	0.15	5	CH_3CCH	14(4)–13(4)	239.1793	198	
239.211	0.12	2.2	CH_3CCH	14(3)–13(3)	239.2112	149	
239.212	0.12	2.2	CH_3CCH	14(3)–13(3)	239.2112	149	
239.234	0.1	2.2	CH_3CCH	14(2)–13(2)	239.234	114	
239.234	0.12	3.4	CH_3CCH	14(3)–13(3)	239.2112	149	
239.234	0.2	2.2	CH_3CCH	14(2)–13(2)	239.234	114	
239.247	0.25	4.5	CH_3CCH	14(2)–13(2)	239.234	114	
239.247	0.21	2.9	CH_3CCH	14(1)–13(1)	239.2477	93.1	sl-blend
239.247	0.16		CH_3CCH	14(1)–13(1)	239.2477	93.1	blend
239.251	0.21	3.3	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.251	0.24	3.9	CH_3CCH	14(0)–13(0)	239.2523	86.1	sl-blend
239.253	0.26	2.8	CH_3CCH	14(0)–13(0)	239.2523	86.1	
241.767	1.5	3.3	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.767	1.3	3.8	CH_3OH	5(-1)–4(-1) E	241.7672	39.2	
241.791	1.5	4.2	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.791	1.6	3.7	CH_3OH	5(0)–4(0) A+	241.7914	34.8	
241.878	0.33	2.4	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.879	0.33	5.2	CH_3OH	5(1)–4(1) E	241.8791	54.7	
241.904	0.47	3.8	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
241.904	0.38	4.2	CH_3OH	5(-2)–4(-2) E	241.9041	59.5	blend
337.061	1.2	3	$C^{17}O$	3–2	337.0611	32.4	sba
346.526	0.42	6.7	SO	9(8)–8(7)	346.5286	78.8	
349.337	0.65	4.8	C_2H	4.5–3.5	349.3381	41.9	
349.338	0.57	4.5	C_2H	4.5–3.5	349.3381	41.9	
349.399	0.4	3.8	C_2H	3.5–2.5	349.4006	41.9	
349.399	0.51	6	C_2H	3.5–2.5	349.4006	41.9	

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