

Line List of IrO

^{191}IrO and ^{193}IrO

Assigned rotational lines of the [17.6] $2.5 - X^2\Delta_{5/2}$ transition (cm^{-1})

(0,0)			
J''	P	Q	R
2		17602.48	17604.96
3	17599.80	17602.23	17605.42
4	17598.82	17601.98	17605.81
5	17597.75	17601.66	17606.17
6	17596.66	17601.22	17606.48
7	17595.48	17600.79	17606.73
8	17594.24	17600.22	17606.92
9	17592.91		17607.00*
10	17591.55		17607.05*
11	17590.15		17607.05*
12	17588.68		17607.00*
13	17587.13		17606.84
14	17585.54		17606.64
15	17583.86		17606.34

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [17.6] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
2		18275.17	18277.62
3	18272.46	18274.91	18278.06
4	18271.47	18274.60	18278.45
5	18270.37	18274.23	18278.78
6	18269.23	18273.80	18279.04
7	18268.05	18273.30	18279.24
8	18266.75		18279.37*
9	18265.44		18279.42
10	18264.04		18279.37*
11	18262.54		18279.32
12	18260.97		
13	18259.34		
14	18257.72		

¹⁹³ IrO			
Assigned rotational lines of the [17.6] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
2		18274.93	18277.42
3	18272.27	18274.73	18277.88
4	18271.27	18274.42	18278.23
5	18270.20	18274.04	18278.61
6	18269.07	18273.60	18278.83
7	18267.86	18273.11	18279.04
8	18266.57	18272.50	18279.20*
9	18265.23	18271.85	18279.24
10	18263.86	18271.15	18279.20*
11	18262.36		18279.15
12	18260.79		18278.97
13	18259.19		18278.78
14	18257.53		18278.45
15			18278.12

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [17.6] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(2,0)			
J''	P	Q	R
2		18946.82	18949.26
3	18944.13	18946.54	18949.70
4	18943.12	18946.22	18950.04
5	18942.02	18945.81	18950.33
6	18940.82	18945.36	18950.54
7	18939.57	18944.76	18950.72*
8	18938.25		18950.72*
9	18936.86		18950.72*
10	18935.39		
11	18933.81		
12	18932.23		
13	18930.52		
14	18928.74		
15	18926.93		
16	18924.99		

* indicate overlapped with another line

¹⁹³ IrO			
Assigned rotational lines of the [17.6] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(2,0)			
J''	P	Q	R
2		18946.37	18948.78
3	18943.68	18946.10	18949.23
4	18942.65	18945.77	18949.57
5	18941.54	18945.36	18949.87
6	18940.36	18944.86	18950.04
7	18939.12	18944.33	18950.22
8	18937.78		18950.25*
9	18936.42		18950.25*
10	18934.93		18950.18
11	18933.40		18950.00
12	18931.77		18949.69
13	18930.09		18949.45
14	18928.31		18949.07
15	18926.45		
16	18924.54		
17	18922.57		
18	18920.50		

* indicate overlapped with another line

¹⁹³IrO

Assigned rotational lines of the [17.6] 2.5 – X²Δ_{5/2} transition (cm⁻¹)

(0,1)			
J''	P	Q	R
2		16702.48	16705.01
3	16699.84	16702.31	16705.51
4	16698.88	16702.05	16705.91
5	16697.90	16701.73	16706.27
6	16696.75	16701.36	16706.66
7	16695.65	16700.93	16706.90
8	16694.45	16700.43	16707.11
9	16693.18		16707.28
10	16691.88		16707.32
11	16690.53		16707.40
12	16689.08		
13	16687.63		
14	16686.02		
15	16684.50		

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [17.8] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,0)			
J''	P	Q	R
2		17830.82	17833.27
3	17828.11	17830.58	17833.75
4	17827.15	17830.33	17834.19
5	17826.10	17829.98	17834.54
6	17825.00	17829.57	17834.83
7	17823.80	17829.05	17835.08
8	17822.56	17828.56	17835.24
9	17821.27	17827.95	17835.35
10	17819.87		
11	17818.46		
12	17817.00		
13	17815.44		

¹⁹³ IrO			
Assigned rotational lines of the [17.8] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,0)			
J''	P	Q	R
2		17829.86	17832.30
3	17827.15	17829.64	17832.81
4	17826.16	17829.35	17833.23
5	17825.13	17829.00	17833.58
6	17824.02	17828.62	17833.89
7	17822.85	17828.11	17834.11
8	17821.61	17827.61	17834.27
9	17820.31	17827.00	17834.38
10	17818.96		17834.43*
11	17817.54		17834.43*
12	17816.02		17834.33
13	17814.48		17834.19
14	17812.86		
15	17811.20		

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [17.8] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
2		18627.61	18630.09
3	18624.94	18627.37	18630.52
4	18623.94	18627.07	18630.91
5	18622.83	18626.70	18631.22
6	18621.70		18631.46
7	18620.46		18631.64
8	18619.21		18631.74
9	18617.83		18631.78*
10	18616.41		18631.78*
11	18614.90		18631.68
12	18613.39		18631.52
13	18611.76		
14	18610.05		

* indicate overlapped with another line

¹⁹³ IrO			
Assigned rotational lines of the [17.8] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
2		18626.39	18628.83
3	18623.71	18626.15	18629.30
4	18622.67	18625.86	18629.69*
5	18621.63	18625.49	18629.98
6	18620.46	18625.01	18630.24*
7	18619.26		18630.43*
8	18617.98		18630.51
9	18616.62		18630.55*
10	18615.18		18630.55*
11	18613.68		18630.43*
12	18612.15		18630.24*
13	18610.54		18630.02
14			18629.69*
15			18629.33
16			18628.85
17			18628.37
18			18627.76

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [17.8] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(2,0)			
J''	P	Q	R
2			19405.04
3	19399.91	19402.34	19405.45
4		19402.03	19405.82
5	19397.82	19401.66	19406.13
6	19396.64	19401.16	19406.36
7		19400.62	19406.48
8	19394.05	19399.97	19406.52*
9		19399.26	19406.52*
10	19391.18	19398.46	19406.45
11	19389.67	19397.64	19406.25
12		19396.66	
13		19395.68	

¹⁹³ IrO			
Assigned rotational lines of the [17.8] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(2,0)			
J''	P	Q	R
2		19402.02	19404.41
3	19399.30	19401.72	19404.86
4	19398.33	19401.39	19405.18
5	19397.20	19401.01	19405.51
6	19396.01	19400.52	19405.70
7	19394.80	19399.97	19405.86
8	19393.47	19399.33	19405.89*
9	19392.05	19398.63	19405.89*
10	19390.62	19397.87	19405.82
11		19397.00	19405.67
12		19396.09	19405.43
13			19405.10
14			19404.77
15			19404.32

* indicate overlapped with another line

¹⁹¹ IrO and ¹⁹³ IrO			
Assigned rotational lines of the [21.5] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,0)			
J''	P	Q	R
2		21552.23	21554.66
3	21549.39	21552.01	21555.18
4	21548.54	21551.74	21555.66
5	21547.54	21551.41	21556.03
6	21546.47	21551.05	21556.38
7	21545.27	21550.61	21556.65
8	21544.13	21550.14	21556.91
9	21542.86	21549.56	21557.05
10	21541.56	21549.09	21557.24*
11	21540.24		21557.30*
12	21538.82		21557.30*
13	21537.41		21557.24*
14	21535.84		21557.15
15	21534.26		21557.02
16	21532.63		21556.83
17	21530.95		21556.55
18	21529.22		
19	21527.45		

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [21.5] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
2		22390.23	22392.73
3	22387.54	22389.99	22393.21
4	22386.54	22389.73	22393.64
5	22385.52	22389.36	22393.98
6	22384.40	22388.96	22394.27
7	22383.21	22388.53	22394.52
8	22381.97	22387.96	22394.71*
9	22380.69		22394.77
10	22379.32		22394.79*
11	22377.88		22394.79*
12	22376.39		22394.71*
13	22374.84		22394.62
14	22373.20		

¹⁹³ IrO			
Assigned rotational lines of the [21.5] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
2		22389.99	22392.46
3	22387.27	22389.73	22392.93
4	22386.30	22389.47	22393.37
5	22385.26	22389.10	22393.68
6	22384.13	22388.71	22393.98
7	22382.95	22388.22	22394.27*
8	22381.74	22387.68	22394.44*
9	22380.45	22387.10	22394.52*
10	22379.10		22394.52*
11	22377.65		22394.52*
12	22376.15		22394.44*
13	22374.61		22394.27*
14	22372.94		
15	22371.26		
16	22369.56		
17	22367.72		

* indicate overlapped with another line

¹⁹¹ IrO and ¹⁹³ IrO			
Assigned rotational lines of the [21.5] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(1,1)			
J''	P	Q	R
2		21489.95	21492.42
3	21487.28*	21489.73	21492.93
4	21486.30	21489.48	21493.36
5	21485.28	21489.16	21493.72
6	21484.21	21488.78	21494.07
7	21483.07	21488.37	21494.33
8	21481.87	21487.85	21494.55*
9	21480.62	21487.28*	21494.71*
10	21479.28	21486.66	21494.79*
11	21477.92	21486.00	21494.79*
12	21476.51		21494.79*
13			21494.71*
14			21494.55*
15			21494.36

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,0)			
J''	P	Q	R
2		22006.20	
3	22003.51	22005.85	
4	22002.41	22005.42	22009.15
5	22001.22	22004.89	22009.27
6	21999.92	22004.28	22009.31
7	21998.50	22003.52	22009.27
8	21997.05		22009.15
9	21995.47		22008.94
10	21993.80		22008.56
11	21992.00		22008.19
12	21990.17		22007.66
13	21988.20		22007.05
14	21986.15		
15	21984.03		
16	21981.81		

* indicate overlapped with another line

¹⁹³ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,0)			
J''	P	Q	R
2		22005.66	22008.00
3	22002.95	22005.32	22008.37
4	22001.88	22004.89	22008.60
5	22000.68	22004.39	22008.76
6	21999.39	22003.75	22008.81*
7	21998.03	22003.07	22008.81*
8	21996.55	22002.25	22008.66
9	21995.00	22001.38	22008.46
10	21993.35	22000.42	22008.15
11	21991.60		22007.74
12	21989.75		22007.27
13	21987.80		22006.69
14	21985.79		
15	21983.69		
16	21981.47		

* indicate overlapped with another line

¹⁹³ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,1)			
J''	P	Q	R
2		21105.64	21108.04
3	21102.99	21105.29	21108.35
4	21101.94	21104.93	21108.63
5	21100.71	21104.45	21108.81
6	21099.56	21103.87	21108.93*
7	21098.18	21103.19	21108.93*
8	21096.77	21102.44	21108.90
9	21095.24		21108.73
10	21093.62		21108.43
11	21091.97		21108.10
12	21090.17		21107.65
13	21088.30		21107.12
14			21106.53

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,2)			
J''	P	Q	R
2		20214.79	20217.15*
3	20212.14	20214.50	20217.50*
4	20211.11	20214.11	20217.83*
5	20209.95	20213.60	20218.01*
6	20208.74	20213.07	20218.10*
7	20207.37	20212.49	20218.10*
8	20206.00	20211.70	20218.10*
9	20204.51		20218.01*
10	20202.96		20217.83*
11	20201.29		20217.50*
12	20199.58		20217.15*
13	20197.72		20216.58
14	20195.84		20216.03
15	20193.89		20215.41

* indicate overlapped with another line

¹⁹³ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,2)			
J''	P	Q	R
2		20214.97	20217.33
3	20212.34	20214.69	20217.74
4	20211.24	20214.30	20218.01
5	20210.10	20213.87	20218.19
6	20208.92	20213.29	20218.34*
7	20207.61	20212.69	20218.38
8	20206.20	20211.96	20218.34*
9	20204.76		20218.25
10	20203.19		20218.09
11	20201.57		20217.74
12	20199.87		20217.35
13	20198.09		20216.93
14	20196.21		20216.41
15	20194.24		20215.82
16	20192.22		20215.12
17	20190.05		
18	20187.85		
19	20185.60		

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,3)			
J''	P	Q	R
2		19333.13	19335.47
3	19330.45	19332.85	19335.88
4	19329.42	19332.47	19336.11
5	19328.31	19331.98	19336.35*
6	19327.10	19331.47	19336.51*
7	19325.83	19330.90	19336.59*
8	19324.43	19330.17	19336.59*
9	19323.00		19336.51*
10	19321.50		19336.35*
11	19319.90		19336.05
12	19318.26		19335.77
13			19335.33
14			19334.87

¹⁹³ IrO			
Assigned rotational lines of the [22.0] 2.5 – X ² Δ _{5/2} transition (cm ⁻¹)			
(0,3)			
J''	P	Q	R
2		19333.65	19336.01*
3	19331.02	19333.33	19336.38*
4	19329.94	19332.97	19336.66
5	19328.83	19332.56	19336.90
6	19327.66	19332.01	19337.06
7	19326.39	19331.47	19337.15*
8	19325.08	19330.80	19337.15*
9	19323.61		19337.11
10	19322.15		19336.94
11	19320.54		19336.69
12	19318.92		19336.38*
13	19317.16		19336.01*
14			19335.58
15			19335.03
16			19334.35

* indicate overlapped with another line

¹⁹¹IrO and ¹⁹³IrO

Assigned rotational lines of the [21.9] 3.5 – $\Omega = 3.5$ transition (cm⁻¹)

(0,0)			
J''	P	Q	R
3		21868.92	21871.86*
4	21865.39	21868.45	21872.15*
5	21864.22	21867.90	21872.28*
6	21862.91	21867.31	21872.28*
7	21861.46	21866.57	21872.28*
8	21860.04	21865.73	21872.15*
9	21858.37	21864.80	21871.86*
10	21856.72	21863.77	21871.53
11	21854.91	21862.63	21871.04
12	21853.00		21870.49
13	21851.04		
14	21848.94		
15	21846.75		

* indicate overlapped with another line

¹⁹¹ IrO			
Assigned rotational lines of the [21.9] 3.5 – Ω = 3.5 transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
3		22474.24	22477.26*
4	22470.79	22473.70	22477.38*
5	22469.53	22473.17	22477.38*
6	22468.17	22472.43	22477.38*
7	22466.66		22477.26*
8	22465.05		22476.97
9	22463.36		22476.56
10	22461.56		22476.09
11	22459.59		22475.47
12	22457.60		22474.73

¹⁹³ IrO			
Assigned rotational lines of the [21.9] 3.5 – Ω = 3.5 transition (cm ⁻¹)			
(1,0)			
J''	P	Q	R
3		22473.95	22476.97*
4	22470.48	22473.49	22477.10*
5	22469.28	22472.85	22477.16
6	22467.88	22472.12	22477.10*
7	22466.43	22471.31	22476.97*
8	22464.81		22476.69
9	22463.10		22476.29
10	22461.25		22475.79
11	22459.30		22475.20
12	22457.34		22474.46
13	22455.21		
14	22452.86		
15	22450.56		
16	22448.06		
17	22445.51		
18	22442.79		

* indicate overlapped with another line