

Fig.7

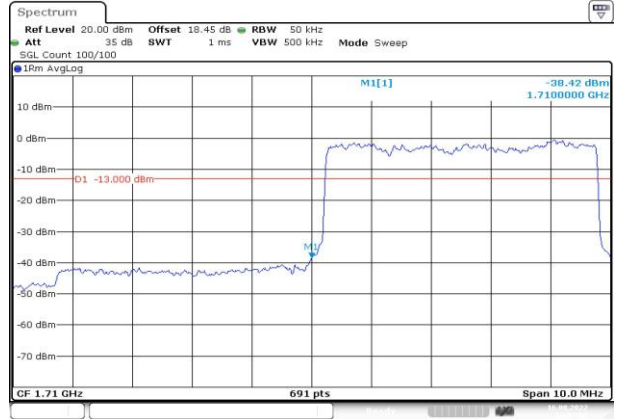


Fig.8

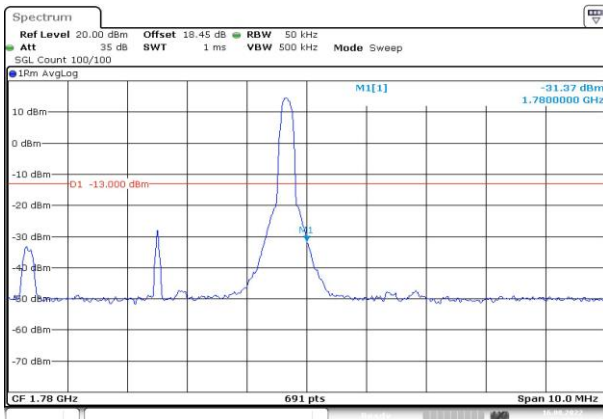


Fig.9

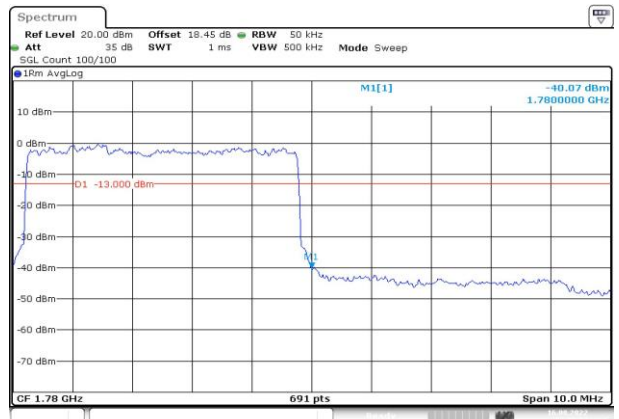


Fig.10

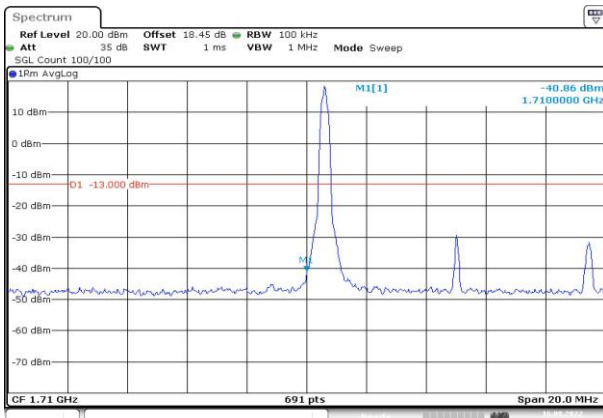


Fig.11

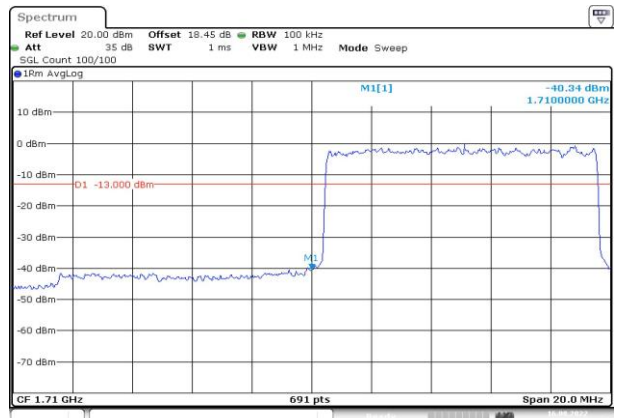


Fig.12

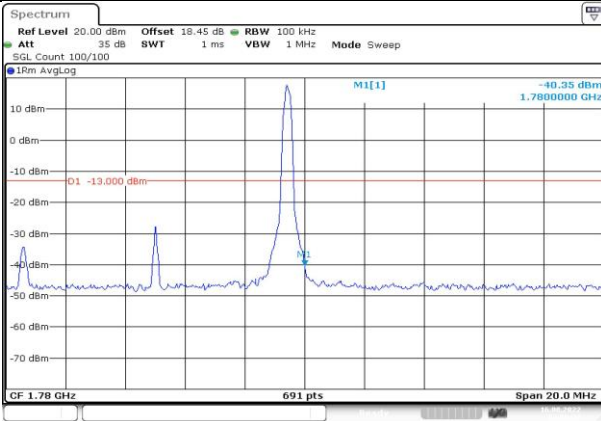


Fig.13

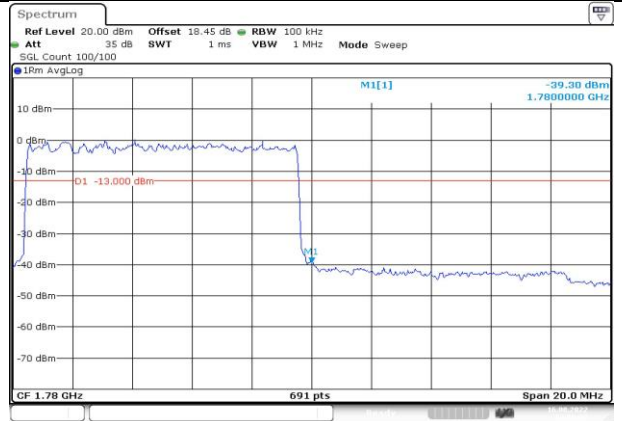


Fig.14

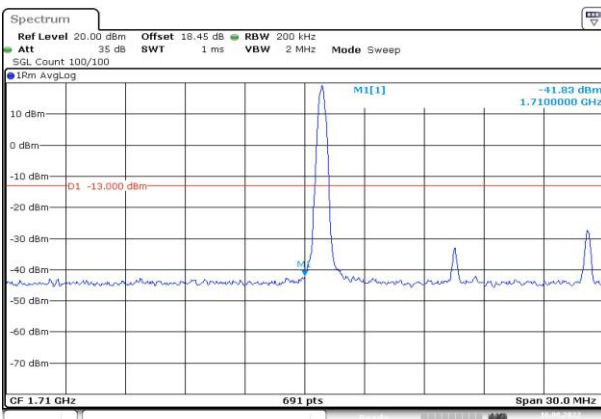


Fig.15

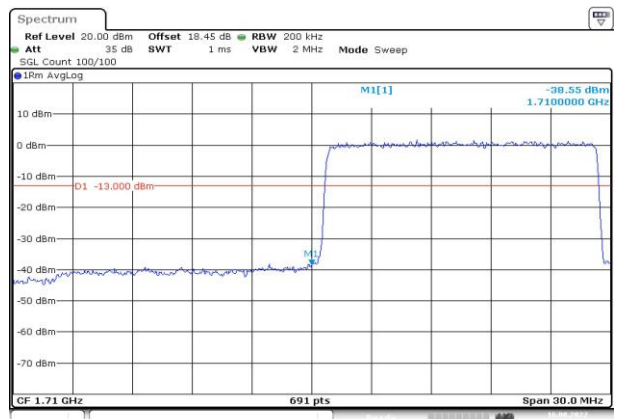


Fig.16

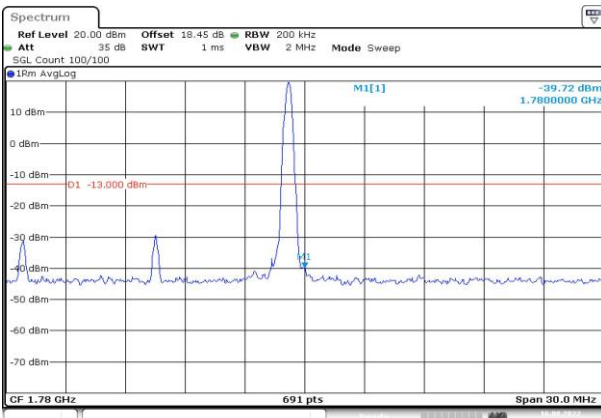


Fig.17

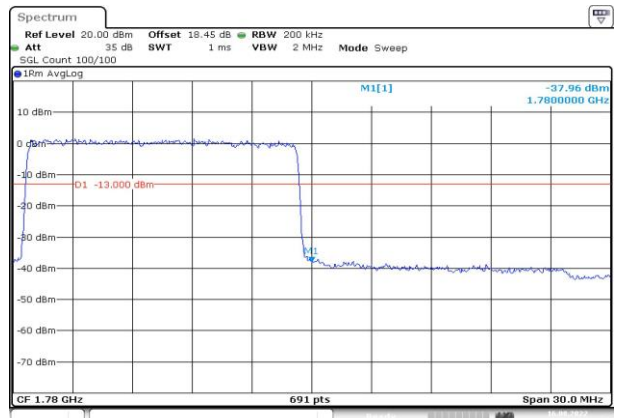


Fig.18

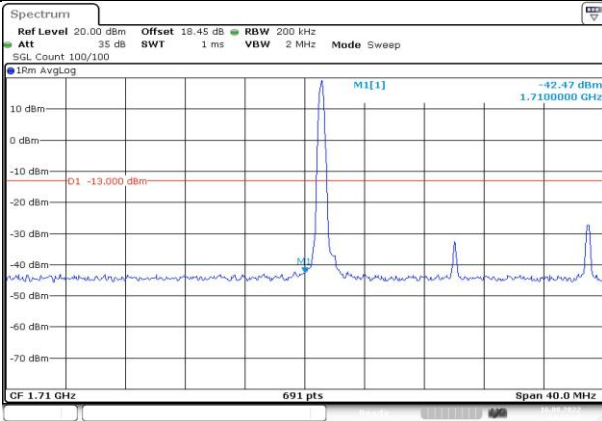


Fig.19

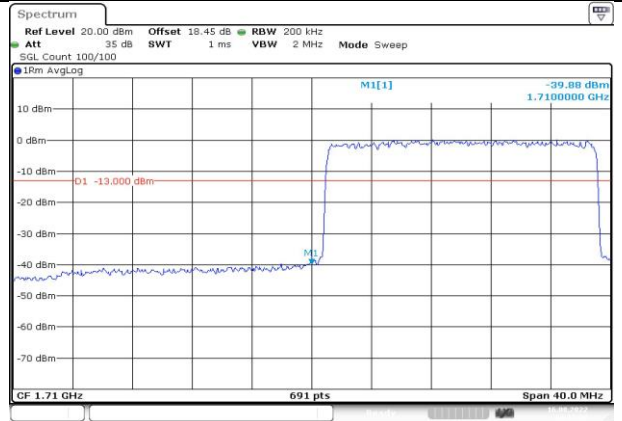


Fig.20

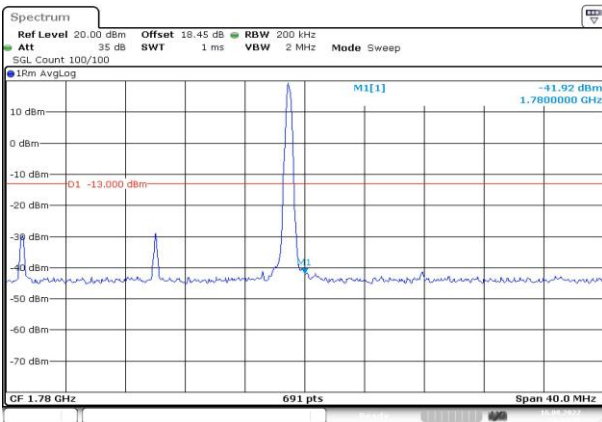


Fig.21

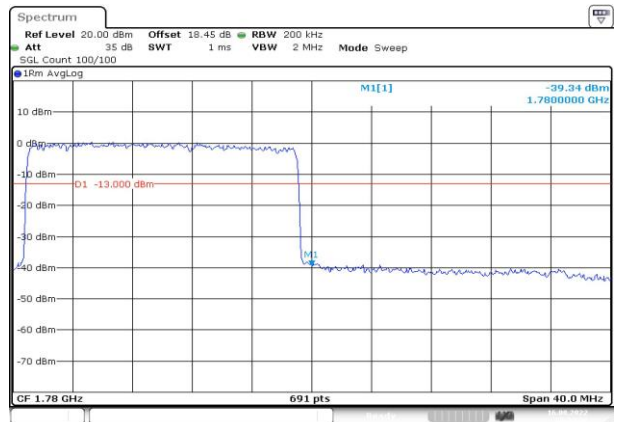


Fig.22

## 7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 66 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-20	NV	-0.008	-0.004	-0.002	-0.024	-0.007	-0.009
-10	NV	0.006	0.015	0.011	0.009	0.017	0.012
0	NV	-0.008	-0.017	-0.015	-0.019	-0.012	-0.025
+10	NV	-0.027	-0.021	-0.019	-0.023	-0.023	-0.018
+30	NV	-0.028	-0.024	-0.024	-0.024	-0.025	-0.022
+40	NV	-0.015	-0.017	-0.013	-0.024	-0.027	-0.025
+55	NV	0.020	0.011	0.063	-0.017	-0.010	0.011
+20	LV	0.019	0.021	0.015	-0.017	0.009	0.017
+20	HV	-0.016	0.008	0.012	0.014	0.029	0.020

Temperature(°C)	Voltage	Test Result (ppm) Band 66 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-20	NV	0.011	-0.024	-0.026	0.014	0.007	0.011
-10	NV	0.010	0.015	0.011	-0.016	0.010	0.018
0	NV	-0.012	-0.024	-0.016	-0.026	-0.029	-0.003
+10	NV	-0.024	-0.021	-0.009	-0.025	-0.015	-0.017
+30	NV	-0.024	-0.026	-0.024	-0.024	-0.026	-0.021
+40	NV	-0.015	-0.023	-0.024	-0.021	-0.019	-0.026
+55	NV	0.008	-0.013	0.010	-0.020	0.015	-0.023
+20	LV	0.044	0.014	0.007	0.023	-0.006	0.025
+20	HV	0.019	0.013	0.013	0.019	0.020	0.025

**8 Effective Radiated Power and Effective Isotropic Radiated Power**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
QPSK	1755	132422	1.4	1	0	21.69	23.39	0.218
QPSK	1755	132422	1.4	1	3	21.55	23.25	0.211
QPSK	1755	132422	1.4	1	5	21.55	23.25	0.211
QPSK	1755	132422	1.4	3	0	21.53	23.23	0.210
QPSK	1755	132422	1.4	3	1	21.59	23.29	0.213
QPSK	1755	132422	1.4	3	3	21.56	23.26	0.212
QPSK	1755	132422	1.4	6	0	20.51	22.21	0.166
QPSK	1779.3	132665	1.4	1	0	22.11	23.81	0.240
QPSK	1779.3	132665	1.4	1	3	22.15	23.85	0.243
QPSK	1779.3	132665	1.4	1	5	22.08	23.78	0.239
QPSK	1779.3	132665	1.4	3	0	22.18	23.88	0.244
QPSK	1779.3	132665	1.4	3	1	22.15	23.85	0.243
QPSK	1779.3	132665	1.4	3	3	22.09	23.79	0.239
QPSK	1779.3	132665	1.4	6	0	21.10	22.80	0.191

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1755	132422	1.4	1	0	20.73	22.43	0.175
16QAM	1755	132422	1.4	1	3	20.62	22.32	0.171
16QAM	1755	132422	1.4	1	5	20.90	22.60	0.182
16QAM	1755	132422	1.4	3	0	20.39	22.09	0.162
16QAM	1755	132422	1.4	3	1	20.44	22.14	0.164
16QAM	1755	132422	1.4	3	3	20.44	22.14	0.164
16QAM	1755	132422	1.4	6	0	19.67	21.37	0.137
16QAM	1779.3	132665	1.4	1	0	21.27	22.97	0.198
16QAM	1779.3	132665	1.4	1	3	21.34	23.04	0.201
16QAM	1779.3	132665	1.4	1	5	21.32	23.02	0.200
16QAM	1779.3	132665	1.4	3	0	21.06	22.76	0.189
16QAM	1779.3	132665	1.4	3	1	21.13	22.83	0.192
16QAM	1779.3	132665	1.4	3	3	21.06	22.76	0.189
16QAM	1779.3	132665	1.4	6	0	20.19	21.89	0.155

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1711.5	131987	3	1	0	22.01	23.71	0.235
QPSK	1711.5	131987	3	1	8	22.02	23.72	0.236
QPSK	1711.5	131987	3	1	14	21.95	23.65	0.232
QPSK	1711.5	131987	3	8	0	21.05	22.75	0.188
QPSK	1711.5	131987	3	8	4	21.05	22.75	0.188
QPSK	1711.5	131987	3	8	7	21.03	22.73	0.187
QPSK	1711.5	131987	3	15	0	21.05	22.75	0.188
QPSK	1755	132422	3	1	0	21.44	23.14	0.206
QPSK	1755	132422	3	1	8	21.51	23.21	0.209
QPSK	1755	132422	3	1	14	21.56	23.26	0.212
QPSK	1755	132422	3	8	0	20.68	22.38	0.173
QPSK	1755	132422	3	8	4	20.73	22.43	0.175
QPSK	1755	132422	3	8	7	20.66	22.36	0.172
QPSK	1755	132422	3	15	0	20.66	22.36	0.172
QPSK	1778.5	132657	3	1	0	22.08	23.78	0.239
QPSK	1778.5	132657	3	1	8	22.06	23.76	0.238
QPSK	1778.5	132657	3	1	14	22.02	23.72	0.236
QPSK	1778.5	132657	3	8	0	21.11	22.81	0.191
QPSK	1778.5	132657	3	8	4	21.14	22.84	0.192
QPSK	1778.5	132657	3	8	7	21.09	22.79	0.190
QPSK	1778.5	132657	3	15	0	21.15	22.85	0.193

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1711.5	131987	3	1	0	21.33	23.03	0.201
16QAM	1711.5	131987	3	1	8	21.27	22.97	0.198
16QAM	1711.5	131987	3	1	14	21.28	22.98	0.199
16QAM	1711.5	131987	3	8	0	20.09	21.79	0.151
16QAM	1711.5	131987	3	8	4	20.07	21.77	0.150
16QAM	1711.5	131987	3	8	7	20.05	21.75	0.150
16QAM	1711.5	131987	3	15	0	20.08	21.78	0.151
16QAM	1755	132422	3	1	0	20.87	22.57	0.181
16QAM	1755	132422	3	1	8	20.92	22.62	0.183
16QAM	1755	132422	3	1	14	20.87	22.57	0.181
16QAM	1755	132422	3	8	0	19.68	21.38	0.137
16QAM	1755	132422	3	8	4	19.70	21.40	0.138
16QAM	1755	132422	3	8	7	19.71	21.41	0.138
16QAM	1755	132422	3	15	0	19.67	21.37	0.137
16QAM	1778.5	132657	3	1	0	21.38	23.08	0.203
16QAM	1778.5	132657	3	1	8	21.42	23.12	0.205
16QAM	1778.5	132657	3	1	14	21.38	23.08	0.203
16QAM	1778.5	132657	3	8	0	20.10	21.80	0.151
16QAM	1778.5	132657	3	8	4	20.12	21.82	0.152
16QAM	1778.5	132657	3	8	7	20.08	21.78	0.151
16QAM	1778.5	132657	3	15	0	20.16	21.86	0.153



Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
QPSK	1712.5	131997	5	1	0	22.04	23.74	0.237
QPSK	1712.5	131997	5	1	12	21.88	23.58	0.228
QPSK	1712.5	131997	5	1	24	21.89	23.59	0.229
QPSK	1712.5	131997	5	12	0	21.08	22.78	0.190
QPSK	1712.5	131997	5	12	7	21.12	22.82	0.191
QPSK	1712.5	131997	5	12	13	21.05	22.75	0.188
QPSK	1712.5	131997	5	25	0	20.99	22.69	0.186
QPSK	1755	132422	5	1	0	21.42	23.12	0.205
QPSK	1755	132422	5	1	12	21.68	23.38	0.218
QPSK	1755	132422	5	1	24	21.64	23.34	0.216
QPSK	1755	132422	5	12	0	20.71	22.41	0.174
QPSK	1755	132422	5	12	7	20.70	22.40	0.174
QPSK	1755	132422	5	12	13	20.68	22.38	0.173
QPSK	1755	132422	5	25	0	20.69	22.39	0.173
QPSK	1777.5	132647	5	1	0	22.08	23.78	0.239
QPSK	1777.5	132647	5	1	12	22.17	23.87	0.244
QPSK	1777.5	132647	5	1	24	22.10	23.80	0.240
QPSK	1777.5	132647	5	12	0	21.09	22.79	0.190
QPSK	1777.5	132647	5	12	7	21.16	22.86	0.193
QPSK	1777.5	132647	5	12	13	21.08	22.78	0.190
QPSK	1777.5	132647	5	25	0	21.10	22.80	0.191

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1712.5	131997	5	1	0	21.33	23.03	0.201
16QAM	1712.5	131997	5	1	12	21.22	22.92	0.196
16QAM	1712.5	131997	5	1	24	21.11	22.81	0.191
16QAM	1712.5	131997	5	12	0	20.08	21.78	0.151
16QAM	1712.5	131997	5	12	7	20.05	21.75	0.150
16QAM	1712.5	131997	5	12	13	20.01	21.71	0.148
16QAM	1712.5	131997	5	25	0	20.02	21.72	0.149
16QAM	1755	132422	5	1	0	20.81	22.51	0.178
16QAM	1755	132422	5	1	12	20.96	22.66	0.185
16QAM	1755	132422	5	1	24	20.95	22.65	0.184
16QAM	1755	132422	5	12	0	19.61	21.31	0.135
16QAM	1755	132422	5	12	7	19.66	21.36	0.137
16QAM	1755	132422	5	12	13	19.60	21.30	0.135
16QAM	1755	132422	5	25	0	19.67	21.37	0.137
16QAM	1777.5	132647	5	1	0	21.30	23.00	0.200
16QAM	1777.5	132647	5	1	12	21.37	23.07	0.203
16QAM	1777.5	132647	5	1	24	21.44	23.14	0.206
16QAM	1777.5	132647	5	12	0	20.08	21.78	0.151
16QAM	1777.5	132647	5	12	7	20.09	21.79	0.151
16QAM	1777.5	132647	5	12	13	20.03	21.73	0.149
16QAM	1777.5	132647	5	25	0	20.07	21.77	0.150

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1715	132022	10	1	0	21.88	23.58	0.228
QPSK	1715	132022	10	1	25	21.91	23.61	0.230
QPSK	1715	132022	10	1	49	21.81	23.51	0.224
QPSK	1715	132022	10	25	0	21.03	22.73	0.187
QPSK	1715	132022	10	25	12	20.99	22.69	0.186
QPSK	1715	132022	10	25	25	20.92	22.62	0.183
QPSK	1715	132022	10	50	0	20.90	22.60	0.182
QPSK	1755	132422	10	1	0	21.49	23.19	0.208
QPSK	1755	132422	10	1	25	21.59	23.29	0.213
QPSK	1755	132422	10	1	49	21.63	23.33	0.215
QPSK	1755	132422	10	25	0	20.62	22.32	0.171
QPSK	1755	132422	10	25	12	20.68	22.38	0.173
QPSK	1755	132422	10	25	25	20.72	22.42	0.175
QPSK	1755	132422	10	50	0	20.65	22.35	0.172
QPSK	1775	132622	10	1	0	22.01	23.71	0.235
QPSK	1775	132622	10	1	25	22.05	23.75	0.237
QPSK	1775	132622	10	1	49	22.06	23.76	0.238
QPSK	1775	132622	10	25	0	21.09	22.79	0.190
QPSK	1775	132622	10	25	12	21.14	22.84	0.192
QPSK	1775	132622	10	25	25	21.09	22.79	0.190
QPSK	1775	132622	10	50	0	21.04	22.74	0.188

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
16QAM	1715	132022	10	1	0	21.28	22.98	0.199
16QAM	1715	132022	10	1	25	21.15	22.85	0.193
16QAM	1715	132022	10	1	49	21.01	22.71	0.187
16QAM	1715	132022	10	25	0	20.08	21.78	0.151
16QAM	1715	132022	10	25	12	19.98	21.68	0.147
16QAM	1715	132022	10	25	25	19.88	21.58	0.144
16QAM	1715	132022	10	50	0	20.01	21.71	0.148
16QAM	1755	132422	10	1	0	20.72	22.42	0.175
16QAM	1755	132422	10	1	25	20.94	22.64	0.184
16QAM	1755	132422	10	1	49	20.87	22.57	0.181
16QAM	1755	132422	10	25	0	19.62	21.32	0.136
16QAM	1755	132422	10	25	12	19.73	21.43	0.139
16QAM	1755	132422	10	25	25	19.75	21.45	0.140
16QAM	1755	132422	10	50	0	19.68	21.38	0.137
16QAM	1775	132622	10	1	0	21.30	23.00	0.200
16QAM	1775	132622	10	1	25	21.28	22.98	0.199
16QAM	1775	132622	10	1	49	21.32	23.02	0.200
16QAM	1775	132622	10	25	0	20.13	21.83	0.152
16QAM	1775	132622	10	25	12	20.13	21.83	0.152
16QAM	1775	132622	10	25	25	20.10	21.80	0.151
16QAM	1775	132622	10	50	0	20.13	21.83	0.152

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
QPSK	1717.5	132047	15	1	0	21.96	23.66	0.232
QPSK	1717.5	132047	15	1	37	22.00	23.70	0.234
QPSK	1717.5	132047	15	1	74	21.79	23.49	0.223
QPSK	1717.5	132047	15	36	0	20.99	22.69	0.186
QPSK	1717.5	132047	15	36	29	20.86	22.56	0.180
QPSK	1717.5	132047	15	36	30	20.82	22.52	0.179
QPSK	1717.5	132047	15	75	0	21.00	22.70	0.186
QPSK	1755	132422	15	1	0	21.38	23.08	0.203
QPSK	1755	132422	15	1	37	21.43	23.13	0.206
QPSK	1755	132422	15	1	74	21.87	23.57	0.228
QPSK	1755	132422	15	36	0	20.55	22.25	0.168
QPSK	1755	132422	15	36	29	20.72	22.42	0.175
QPSK	1755	132422	15	36	30	20.69	22.39	0.173
QPSK	1755	132422	15	75	0	20.64	22.34	0.171
QPSK	1772.5	132597	15	1	0	21.92	23.62	0.230
QPSK	1772.5	132597	15	1	37	21.92	23.62	0.230
QPSK	1772.5	132597	15	1	74	22.01	23.71	0.235
QPSK	1772.5	132597	15	36	0	21.01	22.71	0.187
QPSK	1772.5	132597	15	36	29	21.09	22.79	0.190
QPSK	1772.5	132597	15	36	30	21.04	22.74	0.188
QPSK	1772.5	132597	15	75	0	21.03	22.73	0.187

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1717.5	132047	15	1	0	21.49	23.19	0.208
16QAM	1717.5	132047	15	1	37	21.13	22.83	0.192
16QAM	1717.5	132047	15	1	74	21.04	22.74	0.188
16QAM	1717.5	132047	15	36	0	20.00	21.70	0.148
16QAM	1717.5	132047	15	36	29	19.92	21.62	0.145
16QAM	1717.5	132047	15	36	30	19.91	21.61	0.145
16QAM	1717.5	132047	15	75	0	19.92	21.62	0.145
16QAM	1755	132422	15	1	0	20.88	22.58	0.181
16QAM	1755	132422	15	1	37	20.96	22.66	0.185
16QAM	1755	132422	15	1	74	21.18	22.88	0.194
16QAM	1755	132422	15	36	0	19.54	21.24	0.133
16QAM	1755	132422	15	36	29	19.74	21.44	0.139
16QAM	1755	132422	15	36	30	19.72	21.42	0.139
16QAM	1755	132422	15	75	0	19.64	21.34	0.136
16QAM	1772.5	132597	15	1	0	21.31	23.01	0.200
16QAM	1772.5	132597	15	1	37	21.42	23.12	0.205
16QAM	1772.5	132597	15	1	74	21.45	23.15	0.207
16QAM	1772.5	132597	15	36	0	20.07	21.77	0.150
16QAM	1772.5	132597	15	36	29	20.09	21.79	0.151
16QAM	1772.5	132597	15	36	30	20.13	21.83	0.152
16QAM	1772.5	132597	15	75	0	20.01	21.71	0.148

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1720	132072	20	1	0	22.01	23.71	0.235
QPSK	1720	132072	20	1	49	21.74	23.44	0.221
QPSK	1720	132072	20	1	99	21.57	23.27	0.212
QPSK	1720	132072	20	50	0	20.96	22.66	0.185
QPSK	1720	132072	20	50	24	20.96	22.66	0.185
QPSK	1720	132072	20	50	50	20.70	22.40	0.174
QPSK	1720	132072	20	100	0	20.92	22.62	0.183
QPSK	1755	132422	20	1	0	21.42	23.12	0.205
QPSK	1755	132422	20	1	49	21.53	23.23	0.210
QPSK	1755	132422	20	1	99	21.90	23.60	0.229
QPSK	1755	132422	20	50	0	20.52	22.22	0.167
QPSK	1755	132422	20	50	24	20.70	22.40	0.174
QPSK	1755	132422	20	50	50	20.77	22.47	0.177
QPSK	1755	132422	20	100	0	20.68	22.38	0.173
QPSK	1770	132572	20	1	0	21.81	23.51	0.224
QPSK	1770	132572	20	1	49	21.98	23.68	0.233
QPSK	1770	132572	20	1	99	22.00	23.70	0.234
QPSK	1770	132572	20	50	0	20.93	22.63	0.183
QPSK	1770	132572	20	50	24	21.05	22.75	0.188
QPSK	1770	132572	20	50	50	21.04	22.74	0.188
QPSK	1770	132572	20	100	0	21.01	22.71	0.187

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
16QAM	1720	132072	20	1	0	21.38	23.08	0.203
16QAM	1720	132072	20	1	49	21.16	22.86	0.193
16QAM	1720	132072	20	1	99	20.92	22.62	0.183
16QAM	1720	132072	20	50	0	19.92	21.62	0.145
16QAM	1720	132072	20	50	24	19.96	21.66	0.147
16QAM	1720	132072	20	50	50	19.73	21.43	0.139
16QAM	1720	132072	20	100	0	19.86	21.56	0.143
16QAM	1755	132422	20	1	0	20.80	22.50	0.178
16QAM	1755	132422	20	1	49	20.95	22.65	0.184
16QAM	1755	132422	20	1	99	21.26	22.96	0.198
16QAM	1755	132422	20	50	0	19.51	21.21	0.132
16QAM	1755	132422	20	50	24	19.66	21.36	0.137
16QAM	1755	132422	20	50	50	19.75	21.45	0.140
16QAM	1755	132422	20	100	0	19.64	21.34	0.136
16QAM	1770	132572	20	1	0	21.19	22.89	0.195
16QAM	1770	132572	20	1	49	21.28	22.98	0.199
16QAM	1770	132572	20	1	99	21.46	23.16	0.207
16QAM	1770	132572	20	50	0	19.94	21.64	0.146
16QAM	1770	132572	20	50	24	20.01	21.71	0.148
16QAM	1770	132572	20	50	50	20.12	21.82	0.152
16QAM	1770	132572	20	100	0	20.01	21.71	0.148