

Fig.7

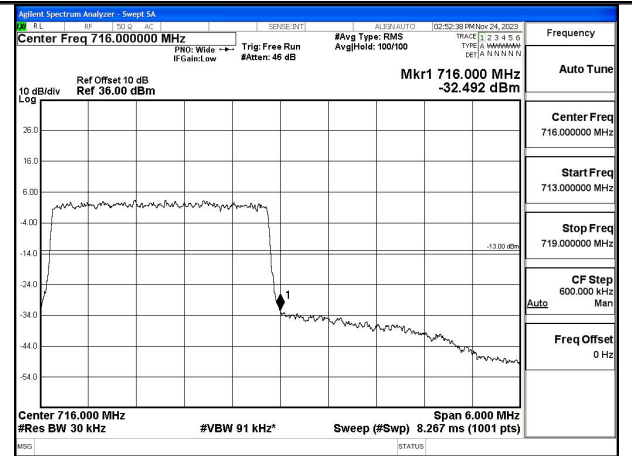


Fig.8

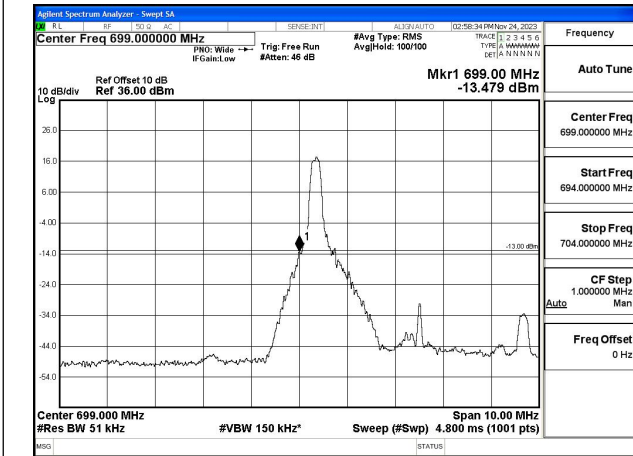


Fig.9

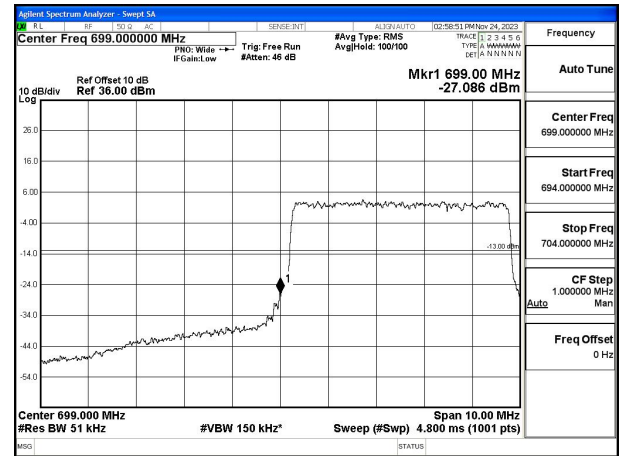


Fig.10

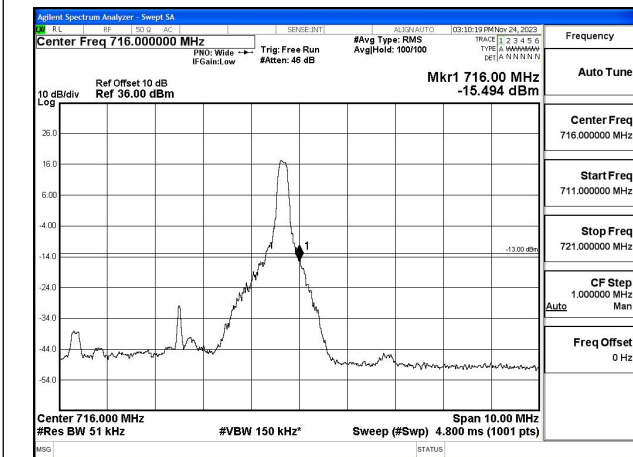


Fig.11

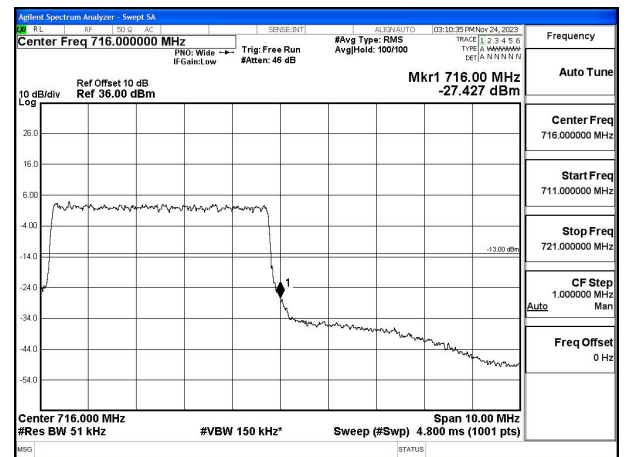


Fig.12

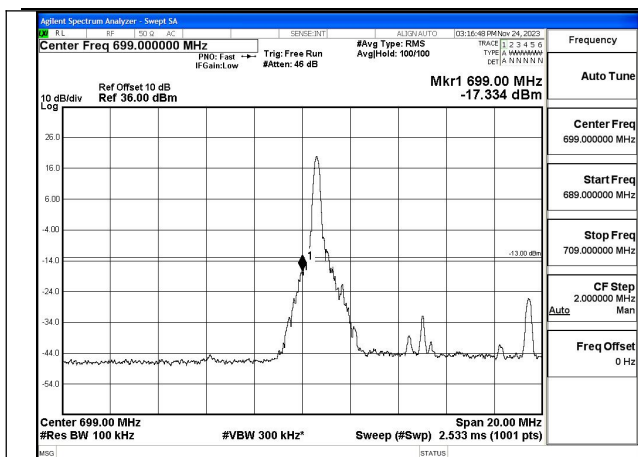


Fig.13

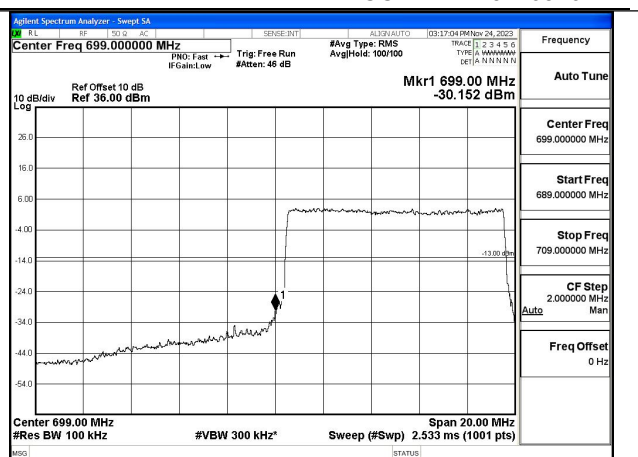


Fig.14

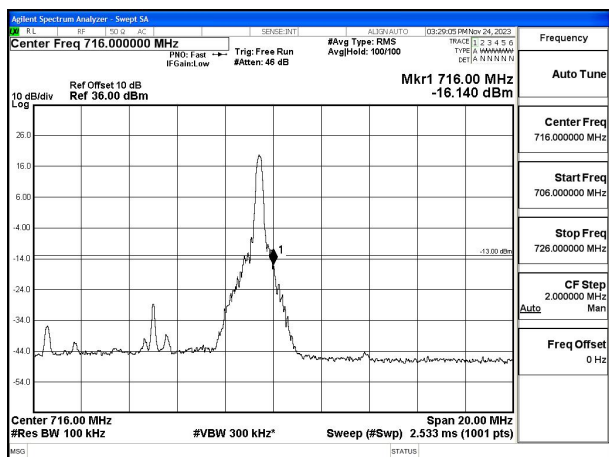


Fig.15

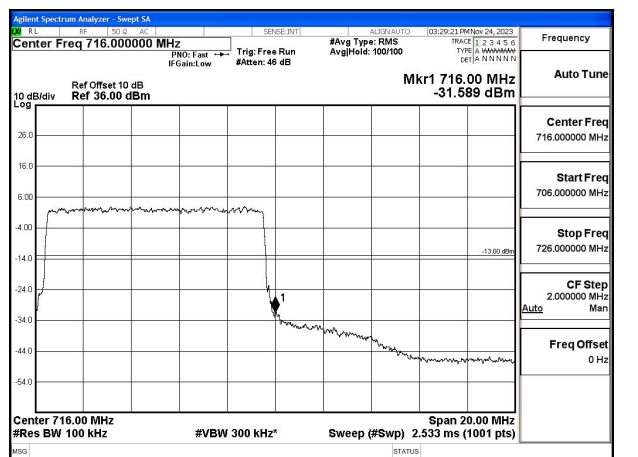


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 12 Low Channel QPSK			
		1.4M	3M	5M	10M
0	NV	-0.017	-0.012	-0.018	-0.016
+10	NV	-0.007	-0.012	-0.012	-0.014
+20	NV	-0.012	-0.012	-0.013	-0.019
+30	NV	-0.013	-0.016	-0.006	-0.012
+45	NV	-0.009	-0.010	-0.017	-0.016
+20	LV	-0.015	-0.011	-0.002	-0.011
+20	HV	-0.012	-0.012	-0.013	-0.006

Temperature(°C)	Voltage	Test Result (ppm) Band 12 High Channel QPSK			
		1.4M	3M	5M	10M
0	NV	-0.015	-0.013	-0.019	-0.008
+10	NV	-0.013	-0.014	-0.016	-0.012
+20	NV	-0.003	-0.015	-0.015	-0.004
+30	NV	-0.011	-0.014	-0.013	-0.005
+45	NV	-0.009	-0.010	-0.012	-0.017
+20	LV	-0.010	-0.004	-0.012	-0.016
+20	HV	0.001	-0.016	-0.005	-0.006

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	699.7	23017	1.4	1	0	23.02	16.49	0.045
QPSK	699.7	23017	1.4	1	3	23.00	16.47	0.044
QPSK	699.7	23017	1.4	1	5	23.08	16.55	0.045
QPSK	699.7	23017	1.4	3	0	23.07	16.54	0.045
QPSK	699.7	23017	1.4	3	1	23.13	16.60	0.046
QPSK	699.7	23017	1.4	3	3	23.01	16.48	0.044
QPSK	699.7	23017	1.4	6	0	22.13	15.60	0.036
QPSK	707.5	23095	1.4	1	0	22.48	15.95	0.039
QPSK	707.5	23095	1.4	1	3	22.65	16.12	0.041
QPSK	707.5	23095	1.4	1	5	22.49	15.96	0.039
QPSK	707.5	23095	1.4	3	0	22.73	16.20	0.042
QPSK	707.5	23095	1.4	3	1	22.67	16.14	0.041
QPSK	707.5	23095	1.4	3	3	22.54	16.01	0.040
QPSK	707.5	23095	1.4	6	0	21.60	15.07	0.032
QPSK	715.3	23173	1.4	1	0	22.58	16.05	0.040
QPSK	715.3	23173	1.4	1	3	22.85	16.32	0.043
QPSK	715.3	23173	1.4	1	5	22.53	16.00	0.040
QPSK	715.3	23173	1.4	3	0	22.56	16.03	0.040
QPSK	715.3	23173	1.4	3	1	22.64	16.11	0.041
QPSK	715.3	23173	1.4	3	3	22.64	16.11	0.041
QPSK	715.3	23173	1.4	6	0	21.63	15.10	0.032

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	699.7	23017	1.4	1	0	22.12	15.59	0.036
16QAM	699.7	23017	1.4	1	3	22.33	15.80	0.038
16QAM	699.7	23017	1.4	1	5	22.16	15.63	0.037
16QAM	699.7	23017	1.4	3	0	21.93	15.40	0.035
16QAM	699.7	23017	1.4	3	1	21.96	15.43	0.035
16QAM	699.7	23017	1.4	3	3	21.84	15.31	0.034
16QAM	699.7	23017	1.4	6	0	21.16	14.63	0.029
16QAM	707.5	23095	1.4	1	0	21.40	14.87	0.031
16QAM	707.5	23095	1.4	1	3	21.63	15.10	0.032
16QAM	707.5	23095	1.4	1	5	21.45	14.92	0.031
16QAM	707.5	23095	1.4	3	0	21.52	14.99	0.032
16QAM	707.5	23095	1.4	3	1	21.58	15.05	0.032
16QAM	707.5	23095	1.4	3	3	21.53	15.00	0.032
16QAM	707.5	23095	1.4	6	0	20.75	14.22	0.026
16QAM	715.3	23173	1.4	1	0	21.68	15.15	0.033
16QAM	715.3	23173	1.4	1	3	21.83	15.30	0.034
16QAM	715.3	23173	1.4	1	5	21.68	15.15	0.033
16QAM	715.3	23173	1.4	3	0	21.59	15.06	0.032
16QAM	715.3	23173	1.4	3	1	21.66	15.13	0.033
16QAM	715.3	23173	1.4	3	3	21.44	14.91	0.031
16QAM	715.3	23173	1.4	6	0	20.66	14.13	0.026
64QAM	699.7	23017	1.4	1	0	21.14	14.61	0.029
64QAM	699.7	23017	1.4	1	3	21.26	14.73	0.030
64QAM	699.7	23017	1.4	1	5	21.24	14.71	0.030
64QAM	699.7	23017	1.4	3	0	20.99	14.46	0.028
64QAM	699.7	23017	1.4	3	1	21.06	14.53	0.028
64QAM	699.7	23017	1.4	3	3	21.10	14.57	0.029
64QAM	699.7	23017	1.4	6	0	20.07	13.54	0.023
64QAM	707.5	23095	1.4	1	0	20.82	14.29	0.027
64QAM	707.5	23095	1.4	1	3	21.13	14.60	0.029
64QAM	707.5	23095	1.4	1	5	20.82	14.29	0.027
64QAM	707.5	23095	1.4	3	0	20.88	14.35	0.027
64QAM	707.5	23095	1.4	3	1	20.94	14.41	0.028
64QAM	707.5	23095	1.4	3	3	20.91	14.38	0.027
64QAM	707.5	23095	1.4	6	0	19.51	12.98	0.020
64QAM	715.3	23173	1.4	1	0	20.69	14.16	0.026
64QAM	715.3	23173	1.4	1	3	20.86	14.33	0.027
64QAM	715.3	23173	1.4	1	5	20.67	14.14	0.026
64QAM	715.3	23173	1.4	3	0	20.69	14.16	0.026
64QAM	715.3	23173	1.4	3	1	20.69	14.16	0.026
64QAM	715.3	23173	1.4	3	3	20.67	14.14	0.026
64QAM	715.3	23173	1.4	6	0	19.92	13.39	0.022

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	22.48	15.95	0.039
QPSK	700.5	23025	3	1	8	22.54	16.01	0.040
QPSK	700.5	23025	3	1	14	22.58	16.05	0.040
QPSK	700.5	23025	3	8	0	21.53	15.00	0.032
QPSK	700.5	23025	3	8	4	21.59	15.06	0.032
QPSK	700.5	23025	3	8	7	21.52	14.99	0.032
QPSK	700.5	23025	3	15	0	21.56	15.03	0.032
QPSK	707.5	23095	3	1	0	22.58	16.05	0.040
QPSK	707.5	23095	3	1	8	22.52	15.99	0.040
QPSK	707.5	23095	3	1	14	22.49	15.96	0.039
QPSK	707.5	23095	3	8	0	21.49	14.96	0.031
QPSK	707.5	23095	3	8	4	21.58	15.05	0.032
QPSK	707.5	23095	3	8	7	21.53	15.00	0.032
QPSK	707.5	23095	3	15	0	21.50	14.97	0.031
QPSK	714.5	23165	3	1	0	22.58	16.05	0.040
QPSK	714.5	23165	3	1	8	22.59	16.06	0.040
QPSK	714.5	23165	3	1	14	22.58	16.05	0.040
QPSK	714.5	23165	3	8	0	21.53	15.00	0.032
QPSK	714.5	23165	3	8	4	21.56	15.03	0.032
QPSK	714.5	23165	3	8	7	21.54	15.01	0.032
QPSK	714.5	23165	3	15	0	21.54	15.01	0.032

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	700.5	23025	3	1	0	22.04	15.51	0.036
16QAM	700.5	23025	3	1	8	22.08	15.55	0.036
16QAM	700.5	23025	3	1	14	22.13	15.60	0.036
16QAM	700.5	23025	3	8	0	20.68	14.15	0.026
16QAM	700.5	23025	3	8	4	20.60	14.07	0.026
16QAM	700.5	23025	3	8	7	20.61	14.08	0.026
16QAM	700.5	23025	3	15	0	20.54	14.01	0.025
16QAM	707.5	23095	3	1	0	21.75	15.22	0.033
16QAM	707.5	23095	3	1	8	21.69	15.16	0.033
16QAM	707.5	23095	3	1	14	21.68	15.15	0.033
16QAM	707.5	23095	3	8	0	20.52	13.99	0.025
16QAM	707.5	23095	3	8	4	20.49	13.96	0.025
16QAM	707.5	23095	3	8	7	20.47	13.94	0.025
16QAM	707.5	23095	3	15	0	20.54	14.01	0.025
16QAM	714.5	23165	3	1	0	21.73	15.20	0.033
16QAM	714.5	23165	3	1	8	21.72	15.19	0.033
16QAM	714.5	23165	3	1	14	21.70	15.17	0.033
16QAM	714.5	23165	3	8	0	20.57	14.04	0.025
16QAM	714.5	23165	3	8	4	20.56	14.03	0.025
16QAM	714.5	23165	3	8	7	20.57	14.04	0.025
16QAM	714.5	23165	3	15	0	20.61	14.08	0.026
64QAM	700.5	23025	3	1	0	20.85	14.32	0.027
64QAM	700.5	23025	3	1	8	20.93	14.40	0.028
64QAM	700.5	23025	3	1	14	20.88	14.35	0.027
64QAM	700.5	23025	3	8	0	19.65	13.12	0.021
64QAM	700.5	23025	3	8	4	19.52	12.99	0.020
64QAM	700.5	23025	3	8	7	19.61	13.08	0.020
64QAM	700.5	23025	3	15	0	19.53	13.00	0.020
64QAM	707.5	23095	3	1	0	20.63	14.10	0.026
64QAM	707.5	23095	3	1	8	20.74	14.21	0.026
64QAM	707.5	23095	3	1	14	20.68	14.15	0.026
64QAM	707.5	23095	3	8	0	19.59	13.06	0.020
64QAM	707.5	23095	3	8	4	19.57	13.04	0.020
64QAM	707.5	23095	3	8	7	19.60	13.07	0.020
64QAM	707.5	23095	3	15	0	19.56	13.03	0.020
64QAM	714.5	23165	3	1	0	20.77	14.24	0.027
64QAM	714.5	23165	3	1	8	20.70	14.17	0.026
64QAM	714.5	23165	3	1	14	20.71	14.18	0.026
64QAM	714.5	23165	3	8	0	19.59	13.06	0.020
64QAM	714.5	23165	3	8	4	19.52	12.99	0.020
64QAM	714.5	23165	3	8	7	19.49	12.96	0.020
64QAM	714.5	23165	3	15	0	19.63	13.10	0.020

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	22.40	15.87	0.039
QPSK	701.5	23035	5	1	12	22.62	16.09	0.041
QPSK	701.5	23035	5	1	24	22.35	15.82	0.038
QPSK	701.5	23035	5	12	0	21.53	15.00	0.032
QPSK	701.5	23035	5	12	7	21.61	15.08	0.032
QPSK	701.5	23035	5	12	13	21.53	15.00	0.032
QPSK	701.5	23035	5	25	0	21.49	14.96	0.031
QPSK	707.5	23095	5	1	0	22.45	15.92	0.039
QPSK	707.5	23095	5	1	12	22.76	16.23	0.042
QPSK	707.5	23095	5	1	24	22.53	16.00	0.040
QPSK	707.5	23095	5	12	0	21.52	14.99	0.032
QPSK	707.5	23095	5	12	7	21.55	15.02	0.032
QPSK	707.5	23095	5	12	13	21.57	15.04	0.032
QPSK	707.5	23095	5	25	0	21.55	15.02	0.032
QPSK	713.5	23155	5	1	0	22.48	15.95	0.039
QPSK	713.5	23155	5	1	12	22.72	16.19	0.042
QPSK	713.5	23155	5	1	24	22.49	15.96	0.039
QPSK	713.5	23155	5	12	0	21.53	15.00	0.032
QPSK	713.5	23155	5	12	7	21.63	15.10	0.032
QPSK	713.5	23155	5	12	13	21.58	15.05	0.032
QPSK	713.5	23155	5	25	0	21.59	15.06	0.032

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	701.5	23035	5	1	0	21.54	15.01	0.032
16QAM	701.5	23035	5	1	12	21.82	15.29	0.034
16QAM	701.5	23035	5	1	24	21.63	15.10	0.032
16QAM	701.5	23035	5	12	0	20.49	13.96	0.025
16QAM	701.5	23035	5	12	7	20.56	14.03	0.025
16QAM	701.5	23035	5	12	13	20.45	13.92	0.025
16QAM	701.5	23035	5	25	0	20.43	13.90	0.025
16QAM	707.5	23095	5	1	0	21.81	15.28	0.034
16QAM	707.5	23095	5	1	12	22.05	15.52	0.036
16QAM	707.5	23095	5	1	24	21.83	15.30	0.034
16QAM	707.5	23095	5	12	0	20.48	13.95	0.025
16QAM	707.5	23095	5	12	7	20.53	14.00	0.025
16QAM	707.5	23095	5	12	13	20.54	14.01	0.025
16QAM	707.5	23095	5	25	0	20.53	14.00	0.025
16QAM	713.5	23155	5	1	0	21.65	15.12	0.033
16QAM	713.5	23155	5	1	12	21.89	15.36	0.034
16QAM	713.5	23155	5	1	24	21.65	15.12	0.033
16QAM	713.5	23155	5	12	0	20.47	13.94	0.025
16QAM	713.5	23155	5	12	7	20.60	14.07	0.026
16QAM	713.5	23155	5	12	13	20.48	13.95	0.025
16QAM	713.5	23155	5	25	0	20.58	14.05	0.025
64QAM	701.5	23035	5	1	0	20.51	13.98	0.025
64QAM	701.5	23035	5	1	12	20.83	14.30	0.027
64QAM	701.5	23035	5	1	24	20.57	14.04	0.025
64QAM	701.5	23035	5	12	0	19.59	13.06	0.020
64QAM	701.5	23035	5	12	7	19.64	13.11	0.020
64QAM	701.5	23035	5	12	13	19.57	13.04	0.020
64QAM	701.5	23035	5	25	0	19.49	12.96	0.020
64QAM	707.5	23095	5	1	0	20.65	14.12	0.026
64QAM	707.5	23095	5	1	12	20.91	14.38	0.027
64QAM	707.5	23095	5	1	24	20.71	14.18	0.026
64QAM	707.5	23095	5	12	0	19.50	12.97	0.020
64QAM	707.5	23095	5	12	7	19.53	13.00	0.020
64QAM	707.5	23095	5	12	13	19.48	12.95	0.020
64QAM	707.5	23095	5	25	0	19.53	13.00	0.020
64QAM	713.5	23155	5	1	0	20.59	14.06	0.025
64QAM	713.5	23155	5	1	12	20.95	14.42	0.028
64QAM	713.5	23155	5	1	24	20.68	14.15	0.026
64QAM	713.5	23155	5	12	0	19.56	13.03	0.020
64QAM	713.5	23155	5	12	7	19.68	13.15	0.021
64QAM	713.5	23155	5	12	13	19.59	13.06	0.020
64QAM	713.5	23155	5	25	0	19.62	13.09	0.020

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	704	23060	10	1	0	22.49	15.96	0.039
QPSK	704	23060	10	1	25	22.74	16.21	0.042
QPSK	704	23060	10	1	49	22.51	15.98	0.040
QPSK	704	23060	10	25	0	21.63	15.10	0.032
QPSK	704	23060	10	25	12	21.61	15.08	0.032
QPSK	704	23060	10	25	25	21.52	14.99	0.032
QPSK	704	23060	10	50	0	21.63	15.10	0.032
QPSK	707.5	23095	10	1	0	22.55	16.02	0.040
QPSK	707.5	23095	10	1	25	22.81	16.28	0.042
QPSK	707.5	23095	10	1	49	22.55	16.02	0.040
QPSK	707.5	23095	10	25	0	21.59	15.06	0.032
QPSK	707.5	23095	10	25	12	21.62	15.09	0.032
QPSK	707.5	23095	10	25	25	21.63	15.10	0.032
QPSK	707.5	23095	10	50	0	21.64	15.11	0.032
QPSK	711	23130	10	1	0	22.62	16.09	0.041
QPSK	711	23130	10	1	25	22.70	16.17	0.041
QPSK	711	23130	10	1	49	22.64	16.11	0.041
QPSK	711	23130	10	25	0	21.50	14.97	0.031
QPSK	711	23130	10	25	12	21.64	15.11	0.032
QPSK	711	23130	10	25	25	21.53	15.00	0.032
QPSK	711	23130	10	50	0	21.56	15.03	0.032

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	704	23060	10	1	0	22.04	15.51	0.036
16QAM	704	23060	10	1	25	22.27	15.74	0.037
16QAM	704	23060	10	1	49	22.09	15.56	0.036
16QAM	704	23060	10	25	0	20.63	14.10	0.026
16QAM	704	23060	10	25	12	20.61	14.08	0.026
16QAM	704	23060	10	25	25	20.63	14.10	0.026
16QAM	704	23060	10	50	0	20.62	14.09	0.026
16QAM	707.5	23095	10	1	0	21.79	15.26	0.034
16QAM	707.5	23095	10	1	25	21.84	15.31	0.034
16QAM	707.5	23095	10	1	49	21.77	15.24	0.033
16QAM	707.5	23095	10	25	0	20.64	14.11	0.026
16QAM	707.5	23095	10	25	12	20.67	14.14	0.026
16QAM	707.5	23095	10	25	25	20.62	14.09	0.026
16QAM	707.5	23095	10	50	0	20.66	14.13	0.026
16QAM	711	23130	10	1	0	21.68	15.15	0.033
16QAM	711	23130	10	1	25	21.92	15.39	0.035
16QAM	711	23130	10	1	49	21.72	15.19	0.033
16QAM	711	23130	10	25	0	20.64	14.11	0.026
16QAM	711	23130	10	25	12	20.62	14.09	0.026
16QAM	711	23130	10	25	25	20.64	14.11	0.026
16QAM	711	23130	10	50	0	20.61	14.08	0.026
64QAM	704	23060	10	1	0	20.81	14.28	0.027
64QAM	704	23060	10	1	25	21.10	14.57	0.029
64QAM	704	23060	10	1	49	20.88	14.35	0.027
64QAM	704	23060	10	25	0	19.64	13.11	0.020
64QAM	704	23060	10	25	12	19.72	13.19	0.021
64QAM	704	23060	10	25	25	19.69	13.16	0.021
64QAM	704	23060	10	50	0	19.58	13.05	0.020
64QAM	707.5	23095	10	1	0	20.71	14.18	0.026
64QAM	707.5	23095	10	1	25	20.87	14.34	0.027
64QAM	707.5	23095	10	1	49	20.68	14.15	0.026
64QAM	707.5	23095	10	25	0	19.71	13.18	0.021
64QAM	707.5	23095	10	25	12	19.72	13.19	0.021
64QAM	707.5	23095	10	25	25	19.72	13.19	0.021
64QAM	707.5	23095	10	50	0	19.72	13.19	0.021
64QAM	711	23130	10	1	0	20.74	14.21	0.026
64QAM	711	23130	10	1	25	20.97	14.44	0.028
64QAM	711	23130	10	1	49	20.69	14.16	0.026
64QAM	711	23130	10	25	0	19.66	13.13	0.021
64QAM	711	23130	10	25	12	19.75	13.22	0.021
64QAM	711	23130	10	25	25	19.68	13.15	0.021
64QAM	711	23130	10	50	0	19.63	13.10	0.020

