

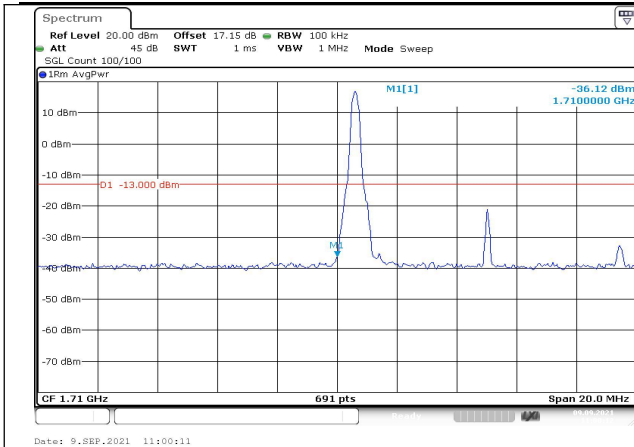


Fig.13

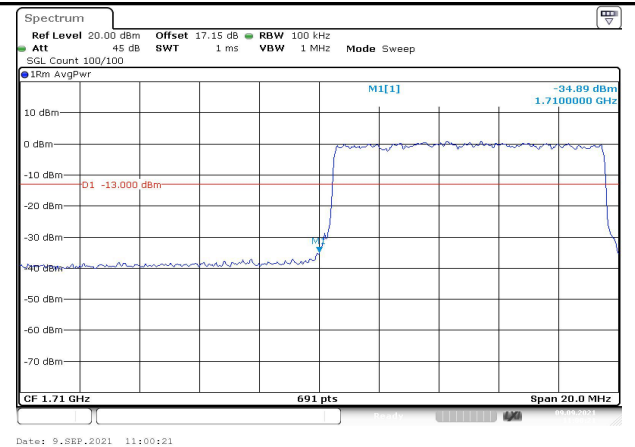


Fig.14

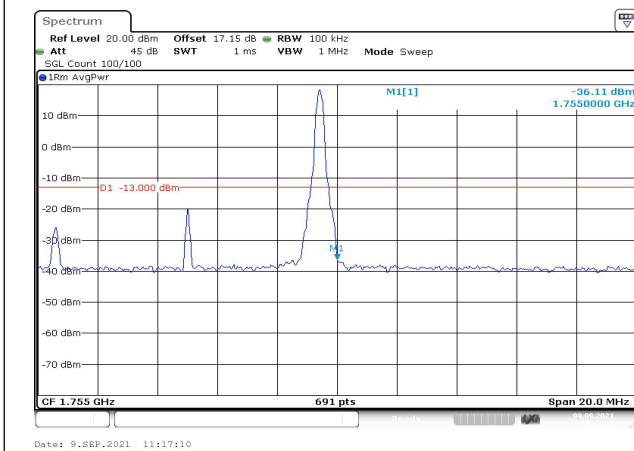


Fig.15

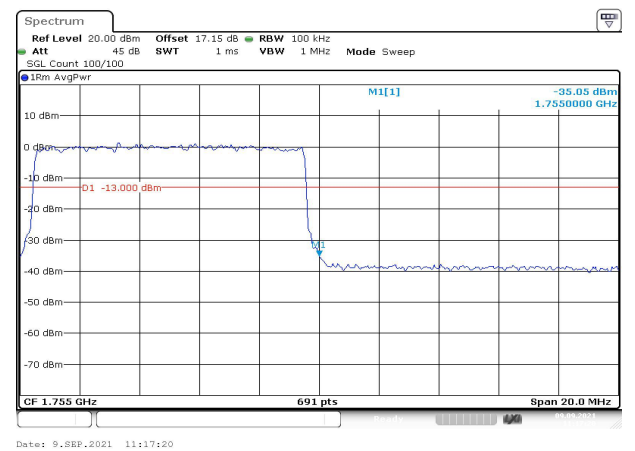


Fig.16

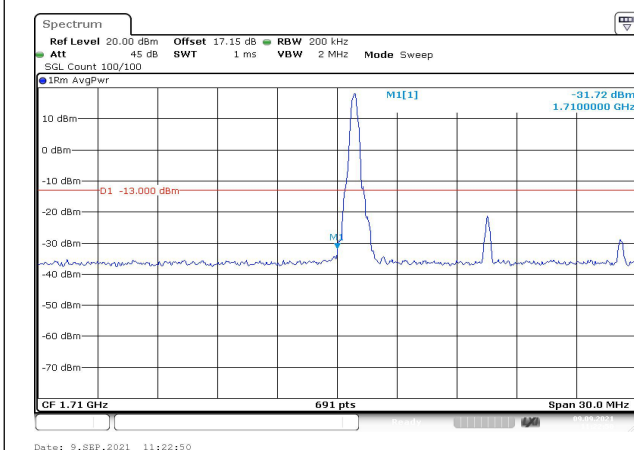


Fig.17

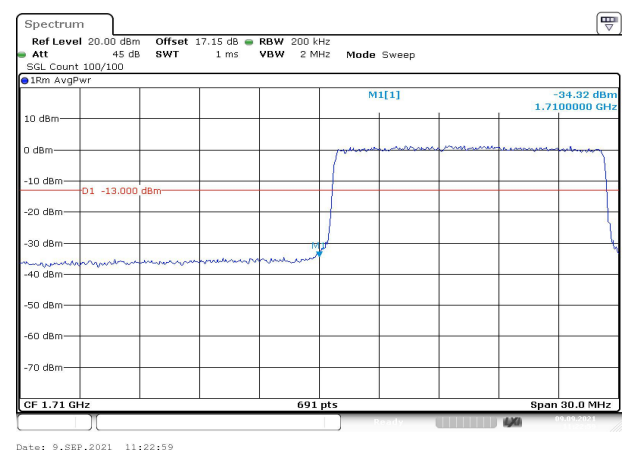


Fig.18

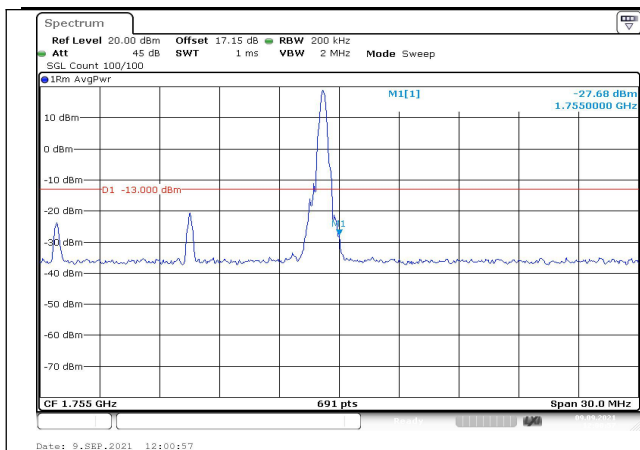


Fig.19

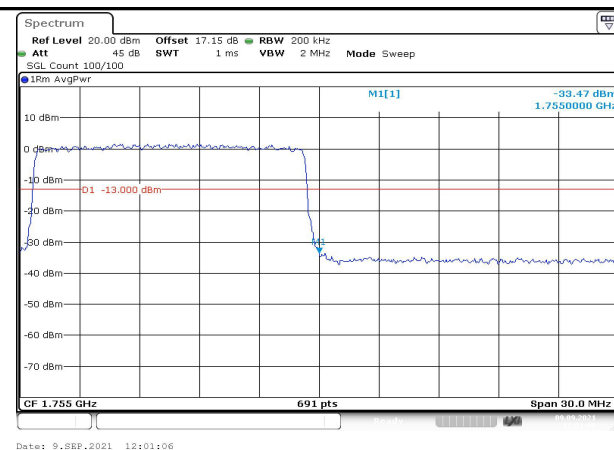


Fig.20

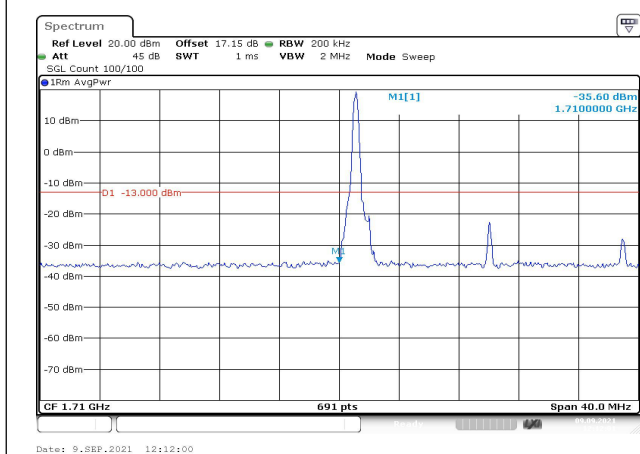


Fig.21

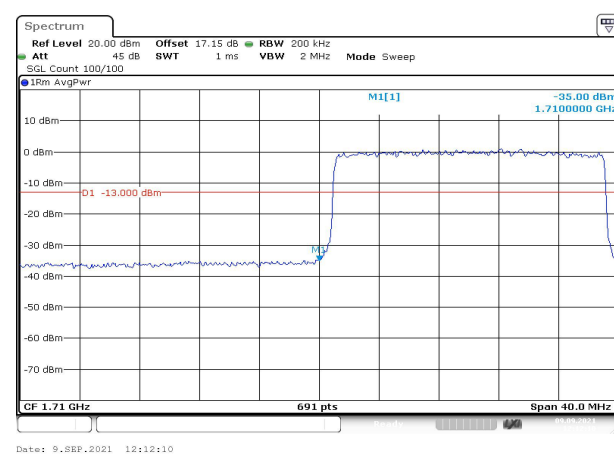


Fig.22

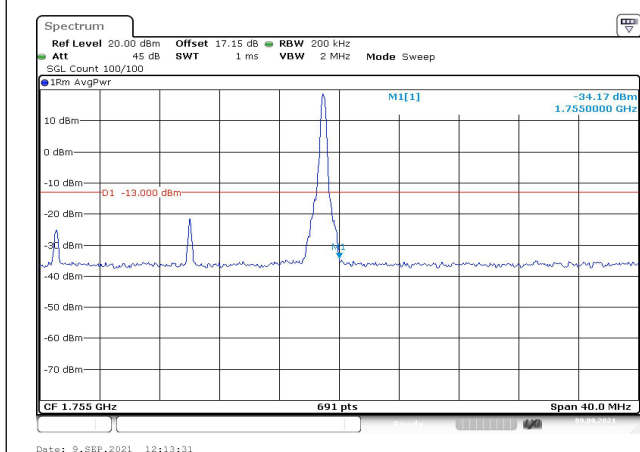


Fig.23

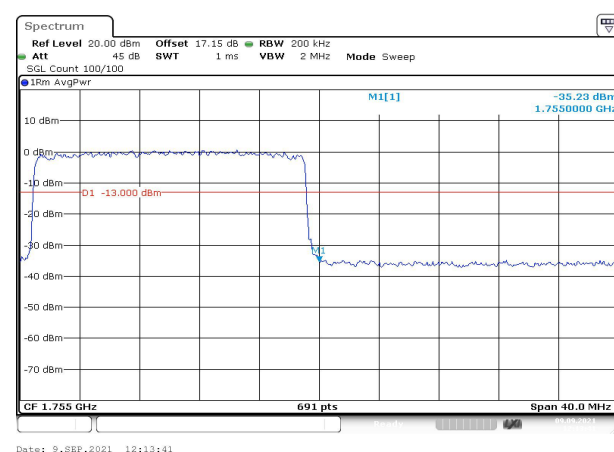


Fig.24

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band4 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	0.000	0.001	0.002	-0.001	0.001	0.001
-20	NV	0.001	0.001	0.003	0.000	0.001	0.002
-10	NV	0.001	0.001	0.002	-0.001	0.000	0.001
0	NV	0.002	0.001	0.002	-0.001	0.002	0.001
+10	NV	0.001	0.000	0.000	-0.002	0.000	0.001
+20	NV	0.001	0.002	0.002	-0.001	0.001	0.001
+30	NV	0.000	-0.001	0.001	-0.002	-0.002	0.001
+40	NV	0.001	0.000	0.001	-0.002	0.000	0.001
+50	NV	0.001	-0.584	0.003	0.000	0.000	0.001
+20	LV	0.001	-0.001	0.002	-0.002	0.001	0.001
+20	HV	0.002	0.001	0.001	-0.003	0.001	0.000

Temperature(°C)	Voltage	Test Result (ppm) Band4 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	-0.002	0.001	-0.002	0.001	0.000	-0.003
-20	NV	-0.002	0.000	-0.001	0.001	0.001	-0.001
-10	NV	-0.001	0.001	-0.001	0.001	0.000	-0.002
0	NV	-0.002	0.000	-0.002	0.002	0.000	-0.002
+10	NV	-0.003	0.000	-0.003	0.001	0.000	-0.001
+20	NV	-0.002	-0.001	-0.001	0.000	0.001	-0.003
+30	NV	-0.002	0.000	-0.001	0.000	0.000	-0.002
+40	NV	-0.003	0.000	-0.002	0.001	0.001	-0.002
+50	NV	-0.002	0.000	0.000	0.001	0.001	-0.001
+20	LV	-0.002	0.000	-0.001	0.001	0.000	-0.002
+20	HV	-0.003	0.000	-0.002	0.002	0.000	-0.001

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
QPSK	1710.7	19957	1.4	1	0	21.27	21.87	0.154	
				1	3	21.25	21.85	0.153	
				1	5	21.23	21.83	0.152	
				3	0	21.39	21.99	0.158	
				3	1	21.38	21.98	0.158	
				3	3	21.29	21.89	0.155	
	6	0		20.21	20.81	0.121			
	1732.5	20175		1	0	20.99	21.59	0.144	
				1	3	20.99	21.59	0.144	
				1	5	20.99	21.59	0.144	
				3	0	21.03	21.63	0.146	
				3	1	21.14	21.74	0.149	
				3	3	20.94	21.54	0.143	
	6	0		19.85	20.45	0.111			
	1754.3	20393		1	0	21.10	21.70	0.148	
				1	3	21.13	21.73	0.149	
				1	5	21.32	21.92	0.156	
				3	0	21.01	21.61	0.145	
				3	1	21.19	21.79	0.151	
				3	3	21.02	21.62	0.145	
	6	0		19.93	20.53	0.113			
	16QAM	1710.7		19957	1	0	19.94	20.54	0.113
					1	3	20.00	20.60	0.115
					1	5	19.92	20.52	0.113
3					0	20.19	20.79	0.120	
3					1	20.22	20.82	0.121	
3					3	20.17	20.77	0.119	
6		0		19.44	20.04	0.101			
1732.5		20175		1	0	19.91	20.51	0.112	
				1	3	20.27	20.87	0.122	
				1	5	20.21	20.81	0.121	
				3	0	19.57	20.17	0.104	
				3	1	19.58	20.18	0.104	
				3	3	19.60	20.20	0.105	
6		0		18.35	18.95	0.079			
1754.3		20393		1	0	20.20	20.80	0.120	
				1	3	20.66	21.26	0.134	
				1	5	20.47	21.07	0.128	
				3	0	19.68	20.28	0.107	
				3	1	19.28	19.88	0.097	
				3	3	19.54	20.14	0.103	
6		0		18.48	19.08	0.081			

Modulation	Carrier frequern cy (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1710.7	19957	1.4	1	0	20.23	20.83	0.121
				1	3	20.14	20.74	0.119
				1	5	19.87	20.47	0.111
				3	0	19.81	20.41	0.110
				3	1	20.08	20.68	0.117
				3	3	20.00	20.60	0.115
				6	0	19.23	19.83	0.096
	1732.5	20175		1	0	19.17	19.77	0.095
				1	3	20.02	20.62	0.115
				1	5	20.00	20.60	0.115
				3	0	19.85	20.45	0.111
				3	1	19.48	20.08	0.102
				3	3	19.52	20.12	0.103
				6	0	18.89	19.49	0.089
	1754.3	20393		1	0	19.96	20.56	0.114
				1	3	20.14	20.74	0.119
				1	5	20.59	21.19	0.132
				3	0	20.01	20.61	0.115
				3	1	20.19	20.79	0.120
				3	3	20.01	20.61	0.115
				6	0	19.06	19.66	0.092

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1711.5	19965	3	1	0	21.21	21.81	0.152
				1	8	21.04	21.64	0.146
				1	14	21.12	21.72	0.149
				8	0	20.22	20.82	0.121
				8	4	20.15	20.75	0.119
				8	7	19.91	20.51	0.112
	15	0		19.98	20.58	0.114		
	1732.5	20175		1	0	21.09	21.69	0.148
				1	8	21.05	21.65	0.146
				1	14	21.00	21.60	0.145
				8	0	19.93	20.53	0.113
				8	4	19.85	20.45	0.111
				8	7	19.79	20.39	0.109
	15	0		19.78	20.38	0.109		
	1753.5	20385		1	0	21.03	21.63	0.146
				1	8	21.28	21.88	0.154
				1	14	21.28	21.88	0.154
				8	0	20.07	20.67	0.117
				8	4	20.01	20.61	0.115
				8	7	19.95	20.55	0.114
	15	0		19.95	20.55	0.114		
16QAM	1711.5	19965		1	0	20.61	21.21	0.132
				1	8	20.47	21.07	0.128
				1	14	20.54	21.14	0.130
				8	0	19.00	19.60	0.091
				8	4	19.11	19.71	0.094
				8	7	19.09	19.69	0.093
	15	0	18.85	19.45	0.088			
	1732.5	20175	1	0	19.76	20.36	0.109	
			1	8	19.70	20.30	0.107	
			1	14	19.82	20.42	0.110	
			8	0	18.46	19.06	0.081	
			8	4	18.29	18.89	0.077	
			8	7	18.46	19.06	0.081	
	15	0	18.54	19.14	0.082			
	1753.5	20385	1	0	20.10	20.70	0.117	
			1	8	19.77	20.37	0.109	
			1	14	19.90	20.50	0.112	
			8	0	18.51	19.11	0.081	
			8	4	18.41	19.01	0.080	
			8	7	18.51	19.11	0.081	
	15	0	18.71	19.31	0.085			

Modulation	Carrier frequern cy (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1711.5	19965	3	1	0	20.50	21.10	0.129
				1	8	20.10	20.70	0.117
				1	14	20.18	20.78	0.120
				8	0	19.07	19.67	0.093
				8	4	18.81	19.41	0.087
				8	7	18.85	19.45	0.088
				15	0	18.78	19.38	0.087
	1732.5	20175		1	0	19.02	19.62	0.092
				1	8	19.82	20.42	0.110
				1	14	19.69	20.29	0.107
				8	0	18.72	19.32	0.086
				8	4	18.73	19.33	0.086
				8	7	18.86	19.46	0.088
				15	0	18.43	19.03	0.080
	1753.5	20385		1	0	19.84	20.44	0.111
				1	8	19.79	20.39	0.109
				1	14	19.97	20.57	0.114
				8	0	19.07	19.67	0.093
				8	4	19.08	19.68	0.093
				8	7	19.02	19.62	0.092
				15	0	18.87	19.47	0.089

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
QPSK	1712.5	19975	5	1	0	21.04	21.64	0.146	
				1	12	21.11	21.71	0.148	
				1	24	20.79	21.39	0.138	
				12	0	20.09	20.69	0.117	
				12	7	19.92	20.52	0.113	
				12	13	19.95	20.55	0.114	
	25	0		19.93	20.53	0.113			
	1732.5	20175		1	0	20.63	21.23	0.133	
				1	12	20.84	21.44	0.139	
				1	24	20.59	21.19	0.132	
				12	0	19.86	20.46	0.111	
				12	7	19.88	20.48	0.112	
				12	13	19.83	20.43	0.110	
	25	0		19.79	20.39	0.109			
	1752.5	20375		1	0	20.98	21.58	0.144	
				1	12	21.05	21.65	0.146	
				1	24	21.16	21.76	0.150	
				12	0	19.97	20.57	0.114	
				12	7	20.01	20.61	0.115	
				12	13	19.97	20.57	0.114	
	25	0		19.93	20.53	0.113			
	16QAM	1712.5		19975	1	0	19.67	20.27	0.106
					1	12	19.59	20.19	0.104
					1	24	19.29	19.89	0.097
12					0	18.80	19.40	0.087	
12					7	18.72	19.32	0.086	
12					13	18.66	19.26	0.084	
25		0		18.74	19.34	0.086			
1732.5		20175		1	0	19.62	20.22	0.105	
				1	12	19.76	20.36	0.109	
				1	24	19.43	20.03	0.101	
				12	0	18.63	19.23	0.084	
				12	7	18.28	18.88	0.077	
				12	13	18.60	19.20	0.083	
25		0		18.58	19.18	0.083			
1752.5		20375		1	0	19.30	19.90	0.098	
				1	12	19.49	20.09	0.102	
				1	24	19.47	20.07	0.102	
				12	0	18.40	19.00	0.079	
				12	7	18.43	19.03	0.080	
				12	13	18.41	19.01	0.080	
25		0		18.87	19.47	0.089			

Modulation	Carrier frequern cy (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1712.5	19975	5	1	0	19.37	19.97	0.099
				1	12	20.25	20.85	0.122
				1	24	19.90	20.50	0.112
				12	0	18.87	19.47	0.089
				12	7	18.71	19.31	0.085
				12	13	18.75	19.35	0.086
				25	0	18.84	19.44	0.088
	1732.5	20175		1	0	19.66	20.26	0.106
				1	12	20.44	21.04	0.127
				1	24	19.75	20.35	0.108
				12	0	18.59	19.19	0.083
				12	7	18.50	19.10	0.081
				12	13	18.57	19.17	0.083
				25	0	18.67	19.27	0.085
	1752.5	20375		1	0	19.64	20.24	0.106
				1	12	19.91	20.51	0.112
				1	24	19.83	20.43	0.110
				12	0	18.82	19.42	0.087
				12	7	18.73	19.33	0.086
				12	13	18.70	19.30	0.085
				25	0	19.15	19.75	0.094

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
QPSK	1715	20000	10	1	0	21.47	22.07	0.161	
				1	25	21.29	21.89	0.155	
				1	49	21.07	21.67	0.147	
				25	0	20.04	20.64	0.116	
				25	12	19.91	20.51	0.112	
				25	25	19.84	20.44	0.111	
	50	0		19.84	20.44	0.111			
	1732.5	20175		1	0	21.05	21.65	0.146	
				1	25	20.99	21.59	0.144	
				1	49	20.87	21.47	0.140	
				25	0	19.83	20.43	0.110	
				25	12	19.84	20.44	0.111	
				25	25	19.87	20.47	0.111	
	50	0		19.81	20.41	0.110			
	1750	20350		1	0	21.27	21.87	0.154	
				1	25	21.58	22.18	0.165	
				1	49	21.71	22.31	0.170	
				25	0	20.17	20.77	0.119	
				25	12	20.13	20.73	0.118	
				25	25	20.20	20.80	0.120	
	50	0		20.15	20.75	0.119			
	16QAM	1715		20000	1	0	20.72	21.32	0.136
					1	25	20.41	21.01	0.126
					1	49	20.32	20.92	0.124
25					0	19.04	19.64	0.092	
25					12	18.82	19.42	0.087	
25					25	18.84	19.44	0.088	
50		0		18.58	19.18	0.083			
1732.5		20175		1	0	19.83	20.43	0.110	
				1	25	20.01	20.61	0.115	
				1	49	19.87	20.47	0.111	
				25	0	18.81	19.41	0.087	
				25	12	18.72	19.32	0.086	
				25	25	18.64	19.24	0.084	
50		0		18.61	19.21	0.083			
1750		20350		1	0	20.09	20.69	0.117	
				1	25	20.35	20.95	0.124	
				1	49	20.59	21.19	0.132	
				25	0	19.10	19.70	0.093	
				25	12	19.27	19.87	0.097	
				25	25	19.17	19.77	0.095	
50		0		19.04	19.64	0.092			

Modulation	Carrier frequen cy (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1715	20000	10	1	0	20.42	21.02	0.126
				1	25	19.81	20.41	0.110
				1	49	19.91	20.51	0.112
				25	0	18.88	19.48	0.089
				25	12	18.84	19.44	0.088
				25	25	18.79	19.39	0.087
				50	0	18.88	19.48	0.089
	1732.5	20175		1	0	19.80	20.40	0.110
				1	25	19.88	20.48	0.112
				1	49	20.00	20.60	0.115
				25	0	18.87	19.47	0.089
				25	12	18.89	19.49	0.089
				25	25	18.79	19.39	0.087
				50	0	18.82	19.42	0.087
	1750	20350		1	0	20.24	20.84	0.121
				1	25	20.11	20.71	0.118
				1	49	20.55	21.15	0.130
				25	0	19.06	19.66	0.092
				25	12	19.03	19.63	0.092
				25	25	18.91	19.51	0.089
				50	0	18.99	19.59	0.091

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
QPSK	1717.5	20025	15	1	0	21.25	21.85	0.153	
				1	37	21.06	21.66	0.147	
				1	74	20.86	21.46	0.140	
				36	0	19.85	20.45	0.111	
				36	29	19.63	20.23	0.105	
				36	30	19.59	20.19	0.104	
	75	0		19.52	20.12	0.103			
	1732.5	20175		1	0	21.38	21.98	0.158	
				1	37	21.40	22.00	0.158	
				1	74	21.19	21.79	0.151	
				36	0	20.01	20.61	0.115	
				36	29	20.03	20.63	0.116	
				36	30	19.95	20.55	0.114	
	75	0		19.90	20.50	0.112			
	1747.5	20325		1	0	21.40	22.00	0.158	
				1	37	21.41	22.01	0.159	
				1	74	21.30	21.90	0.155	
				36	0	19.96	20.56	0.114	
				36	29	19.98	20.58	0.114	
				36	30	19.93	20.53	0.113	
	75	0		19.81	20.41	0.110			
	16QAM	1717.5		20025	1	0	20.50	21.10	0.129
					1	37	20.40	21.00	0.126
					1	74	20.11	20.71	0.118
36					0	18.49	19.09	0.081	
36					29	18.28	18.88	0.077	
36					30	18.43	19.03	0.080	
75		0		18.46	19.06	0.081			
1732.5		20175		1	0	20.72	21.32	0.136	
				1	37	20.95	21.55	0.143	
				1	74	20.35	20.95	0.124	
				36	0	19.09	19.69	0.093	
				36	29	18.82	19.42	0.087	
				36	30	18.69	19.29	0.085	
75		0		18.64	19.24	0.084			
1747.5		20325		1	0	20.59	21.19	0.132	
				1	37	20.73	21.33	0.136	
				1	74	20.56	21.16	0.131	
				36	0	18.82	19.42	0.087	
				36	29	18.95	19.55	0.090	
				36	30	18.73	19.33	0.086	
75		0		18.71	19.31	0.085			

Modulation	Carrier frequern cy (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1717.5	20025	15	1	0	20.10	20.70	0.117
				1	37	20.44	21.04	0.127
				1	74	19.81	20.41	0.110
				36	0	18.79	19.39	0.087
				36	29	18.68	19.28	0.085
				36	30	18.63	19.23	0.084
				75	0	18.58	19.18	0.083
	1732.5	20175		1	0	20.26	20.86	0.122
				1	37	20.18	20.78	0.120
				1	74	19.95	20.55	0.114
				36	0	18.81	19.41	0.087
				36	29	18.92	19.52	0.090
				36	30	18.79	19.39	0.087
				75	0	18.66	19.26	0.084
	1747.5	20325		1	0	20.44	21.04	0.127
				1	37	20.08	20.68	0.117
				1	74	20.09	20.69	0.117
				36	0	18.71	19.31	0.085
				36	29	18.73	19.33	0.086
				36	30	18.70	19.30	0.085
				75	0	18.69	19.29	0.085

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
QPSK	1720	20050	20	1	0	21.25	21.85	0.153	
				1	49	21.12	21.72	0.149	
				1	99	21.05	21.65	0.146	
				50	0	20.12	20.72	0.118	
				50	24	20.02	20.62	0.115	
				50	50	20.05	20.65	0.116	
	100	0		20.06	20.66	0.116			
	1732.5	20175		1	0	21.14	21.74	0.149	
				1	49	21.24	21.84	0.153	
				1	99	21.01	21.61	0.145	
				50	0	20.10	20.70	0.117	
				50	24	20.08	20.68	0.117	
				50	50	19.97	20.57	0.114	
	100	0		19.96	20.56	0.114			
	1745	20300		1	0	21.00	21.60	0.145	
				1	49	20.91	21.51	0.142	
				1	99	21.01	21.61	0.145	
				50	0	20.02	20.62	0.115	
				50	24	19.98	20.58	0.114	
				50	50	19.91	20.51	0.112	
	100	0		19.89	20.49	0.112			
	16QAM	1720		20050	1	0	20.31	20.91	0.123
					1	49	19.72	20.32	0.108
					1	99	20.13	20.73	0.118
50					0	18.92	19.52	0.090	
50					24	18.81	19.41	0.087	
50					50	18.92	19.52	0.090	
100		0		18.96	19.56	0.090			
1732.5		20175		1	0	20.15	20.75	0.119	
				1	49	20.04	20.64	0.116	
				1	99	20.25	20.85	0.122	
				50	0	18.93	19.53	0.090	
				50	24	19.02	19.62	0.092	
				50	50	18.75	19.35	0.086	
100		0		18.88	19.48	0.089			
1745		20300		1	0	20.01	20.61	0.115	
				1	49	20.23	20.83	0.121	
				1	99	19.79	20.39	0.109	
				50	0	18.68	19.28	0.085	
				50	24	18.85	19.45	0.088	
				50	50	18.71	19.31	0.085	
100		0		18.71	19.31	0.085			

Modulation	Carrier frequern cy (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1720	20050	20	1	0	19.87	20.47	0.111
				1	49	20.53	21.13	0.130
				1	99	19.71	20.31	0.107
				50	0	18.84	19.44	0.088
				50	24	18.74	19.34	0.086
				50	50	18.94	19.54	0.090
				100	0	19.91	20.51	0.112
	1732.5	20175		1	0	19.81	20.41	0.110
				1	49	20.17	20.77	0.119
				1	99	20.40	21.00	0.126
				50	0	19.14	19.74	0.094
				50	24	18.99	19.59	0.091
				50	50	18.90	19.50	0.089
				100	0	19.01	19.61	0.091
	1745	20300		1	0	19.83	20.43	0.110
				1	49	19.66	20.26	0.106
				1	99	20.20	20.80	0.120
				50	0	18.75	19.35	0.086
				50	24	18.73	19.33	0.086
				50	50	18.68	19.28	0.085
				100	0	18.78	19.38	0.087