

Fig. 13

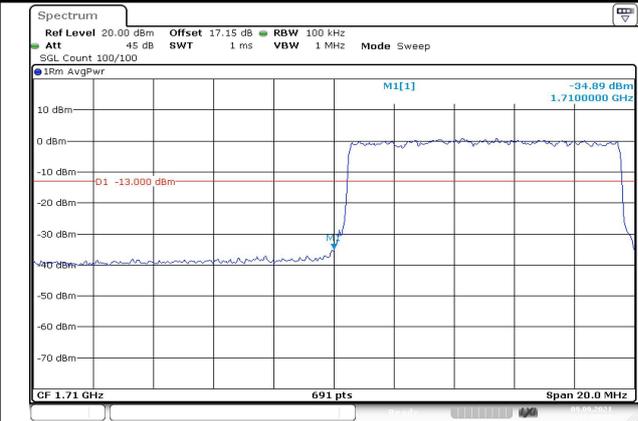


Fig. 14

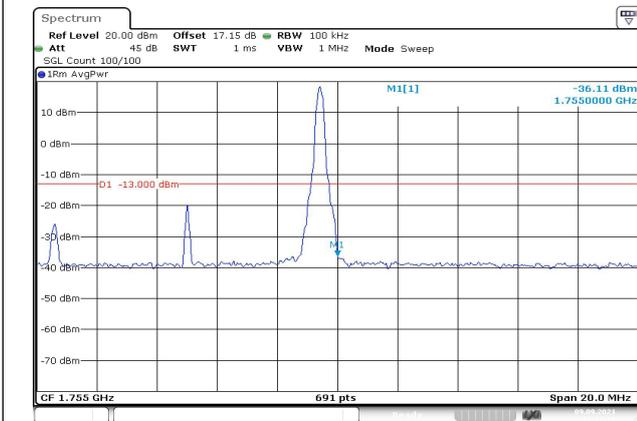


Fig. 15

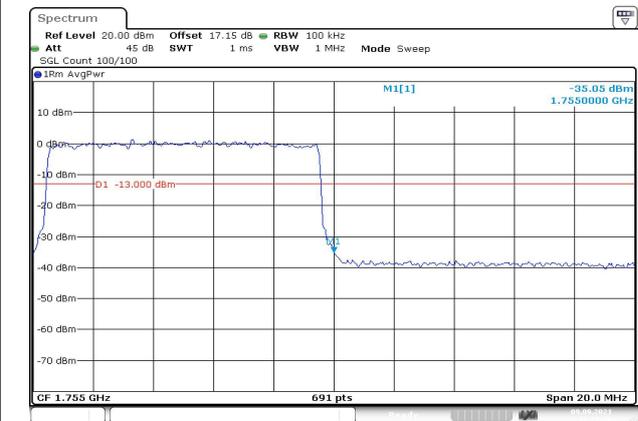


Fig. 16

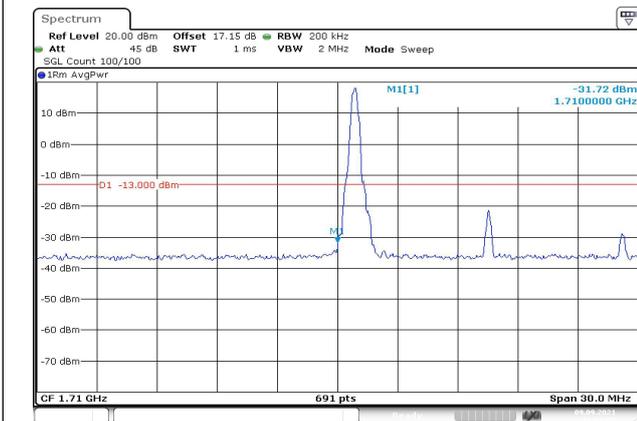


Fig. 17

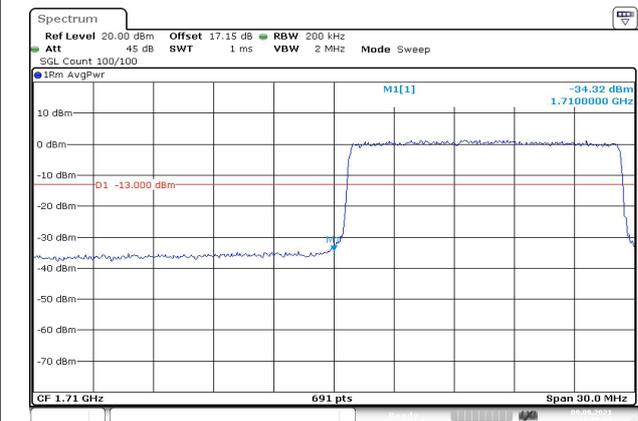


Fig. 18

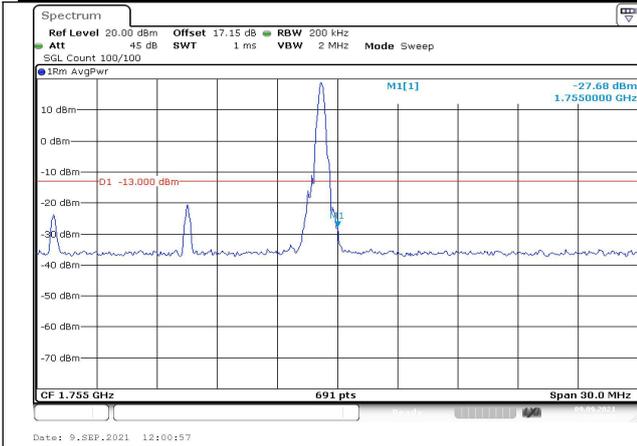


Fig.19

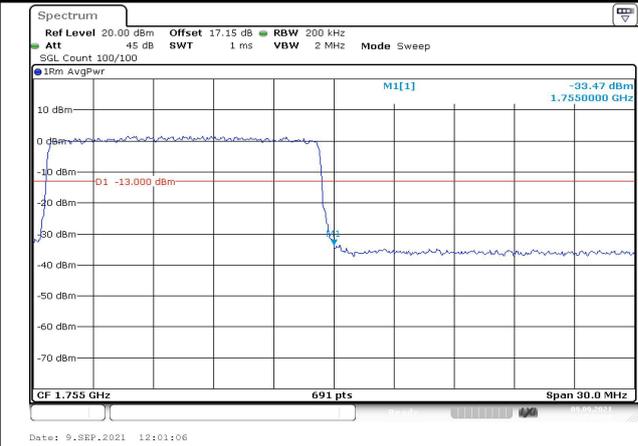


Fig.20

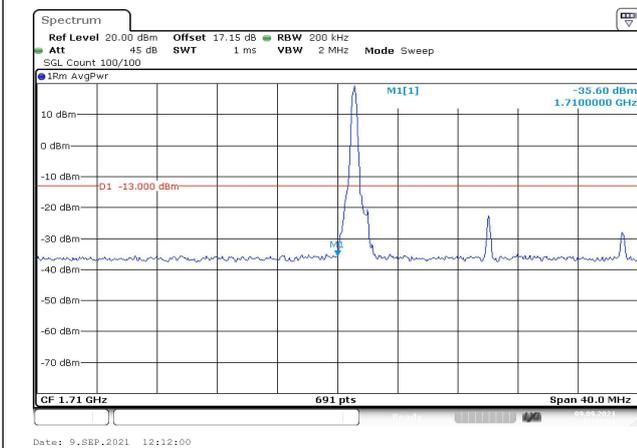


Fig.21

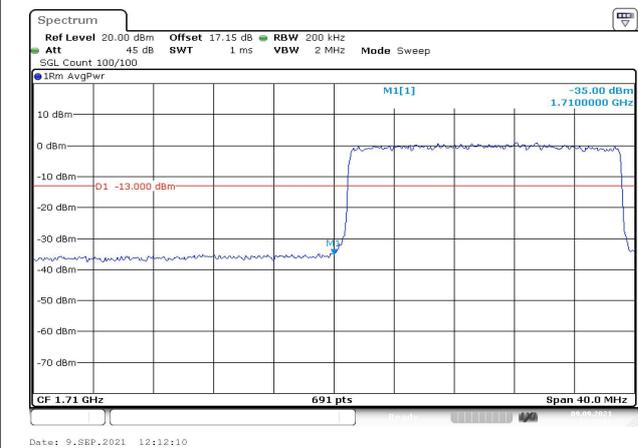


Fig.22

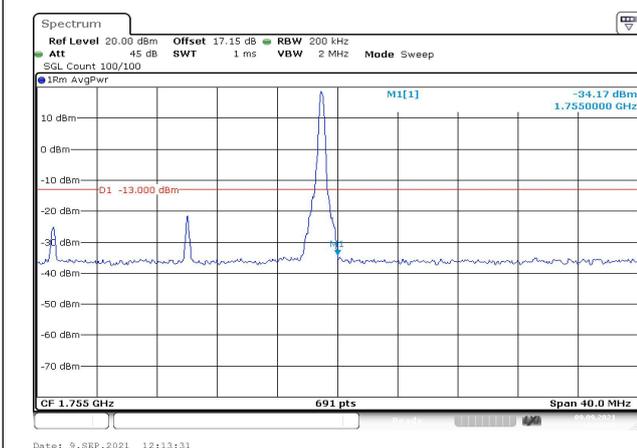


Fig.23

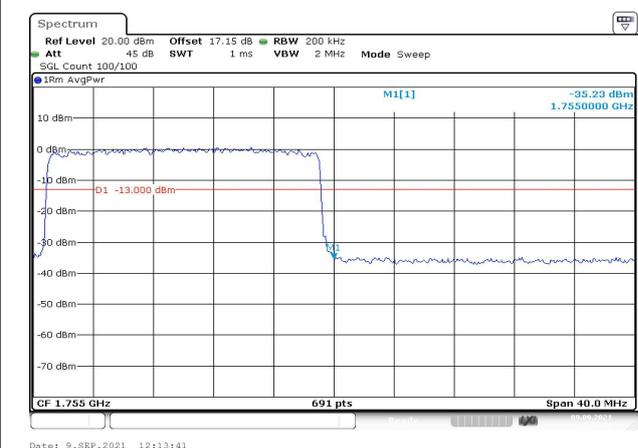


Fig.24

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		
	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		
	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			
	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			
	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 frequency (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		
	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		
	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
	1732.5	20175		15	0	19.98	20.58	0.114
				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
	1753.5	20385		8	7	19.79	20.39	0.109
				15	0	19.78	20.38	0.109
				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		
16QAM	1711.5	19965	8	4	20.01	20.61	0.115	
			8	7	19.95	20.55	0.114	
			15	0	19.95	20.55	0.114	
			1	0	20.61	21.21	0.132	
			1	8	20.47	21.07	0.128	
			1	14	20.54	21.14	0.130	
	1732.5	20175	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	
			1	0	19.76	20.36	0.109	
			1	8	19.70	20.30	0.107	
	1753.5	20385	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		
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 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		
	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		
	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			
	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			
	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 frequency (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
	1732.5	20175		50	0	19.84	20.44	0.111
				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
	1750	20350		25	25	19.87	20.47	0.111
				50	0	19.81	20.41	0.110
				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
16QAM	1715	20000	25	12	20.13	20.73	0.118	
			25	25	20.20	20.80	0.120	
			50	0	20.15	20.75	0.119	
			1	0	20.72	21.32	0.136	
			1	25	20.41	21.01	0.126	
			1	49	20.32	20.92	0.124	
	1732.5	20175	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	
			1	0	19.83	20.43	0.110	
			1	25	20.01	20.61	0.115	
	1750	20350	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	
			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 frequency (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		
	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		
	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			
	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			
	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 frequency (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
	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		
	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
	1732.5	20175		100	0	20.06	20.66	0.116
				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
	1745	20300		50	50	19.97	20.57	0.114
				100	0	19.96	20.56	0.114
				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
16QAM	1720	20050	50	24	19.98	20.58	0.114	
			50	50	19.91	20.51	0.112	
			100	0	19.89	20.49	0.112	
			1	0	20.31	20.91	0.123	
			1	49	19.72	20.32	0.108	
			1	99	20.13	20.73	0.118	
	1732.5	20175	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	
			1	0	20.15	20.75	0.119	
			1	49	20.04	20.64	0.116	
	1745	20300	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	
			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 frequency (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
	1732.5	20175		100	0	19.91	20.51	0.112
				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
	1745	20300		50	50	18.90	19.50	0.089
				100	0	19.01	19.61	0.091
				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