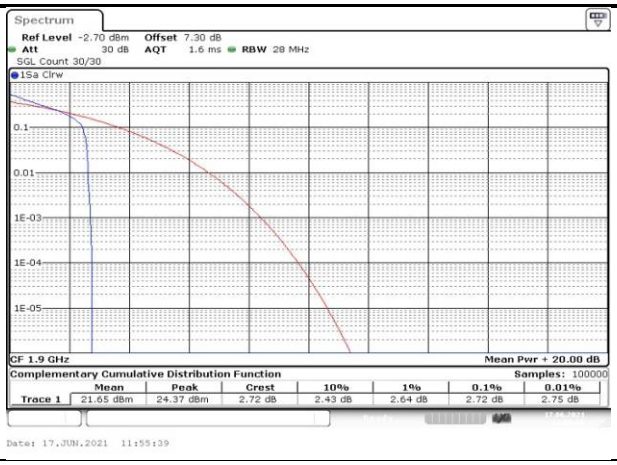

Fig.103

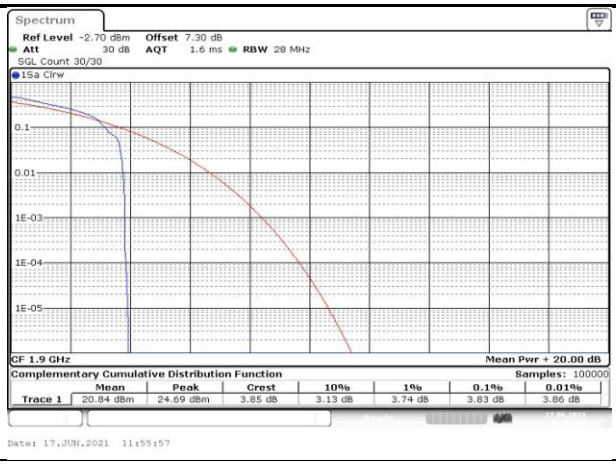

Fig.104

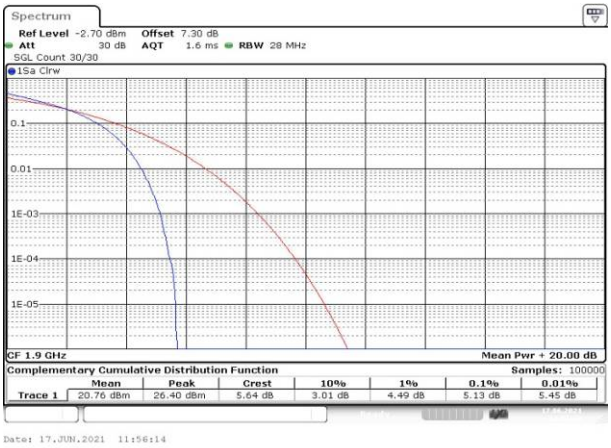

Fig.105

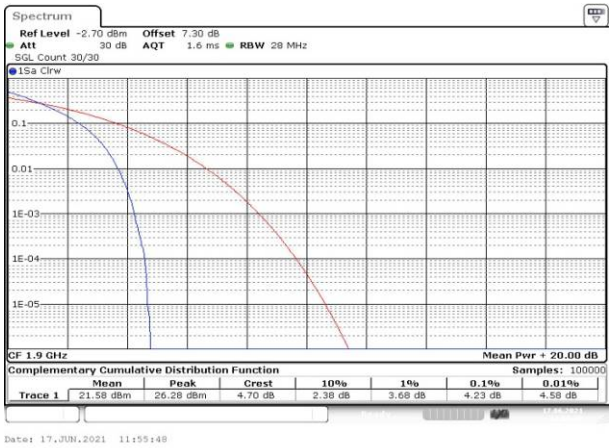

Fig.106

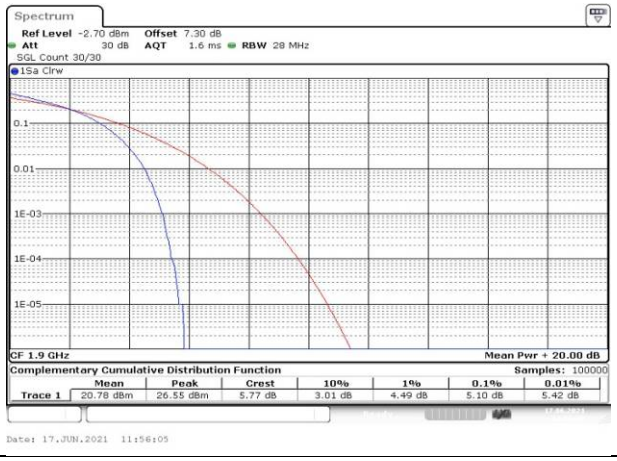

Fig.107

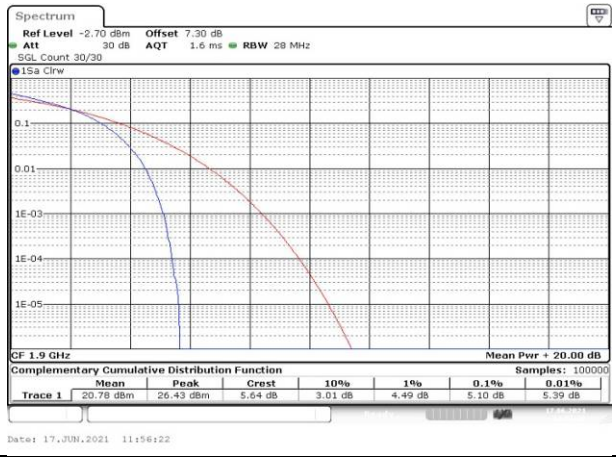

Fig.108

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
2	1860	18700	20	1	0	Fig.1
	1880	18900		1	0	Fig.2
	1900	19100		1	0	Fig.3

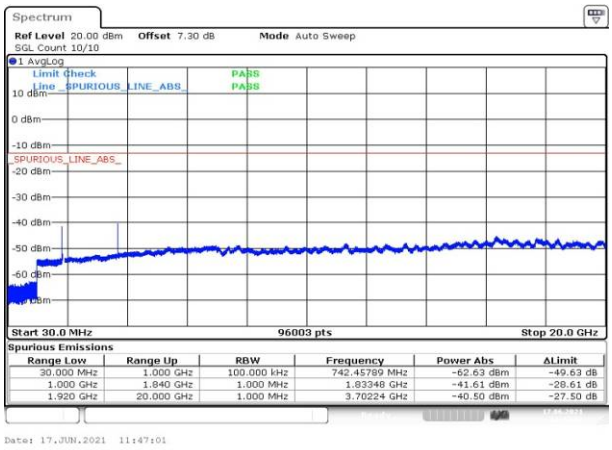

Fig.1

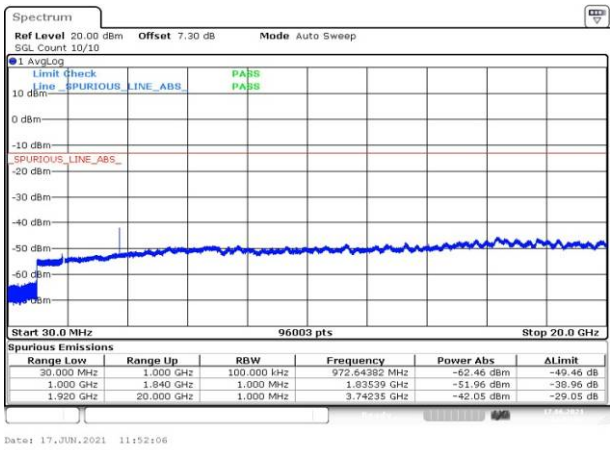

Fig.2

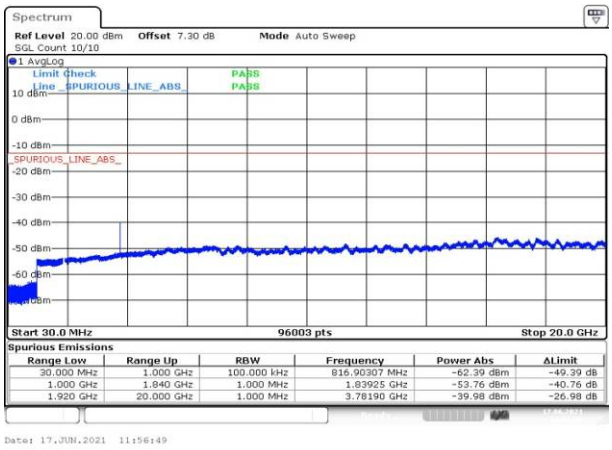

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1850.7	18607	1.4	1	0	Fig.1
				6	0	Fig.2
	1909.3	19193		1	5	Fig.3
				6	0	Fig.4
	1851.5	18615	3	1	0	Fig.5
				15	0	Fig.6
	1908.5	19185		1	14	Fig.7
				15	0	Fig.8
	1852.5	18625	5	1	0	Fig.9
				25	0	Fig.10
	1907.5	19175		1	24	Fig.11
				25	0	Fig.12
	1855	18650	10	1	0	Fig.13
				50	0	Fig.14
	1905	19150		1	49	Fig.15
				50	0	Fig.16
	1857.5	18675	15	1	0	Fig.17
				75	0	Fig.18
	1902.5	19125		1	74	Fig.19
				75	0	Fig.20
	1860	18700	20	1	0	Fig.21
				100	0	Fig.22
	1900	19100		1	99	Fig.23
				100	0	Fig.24

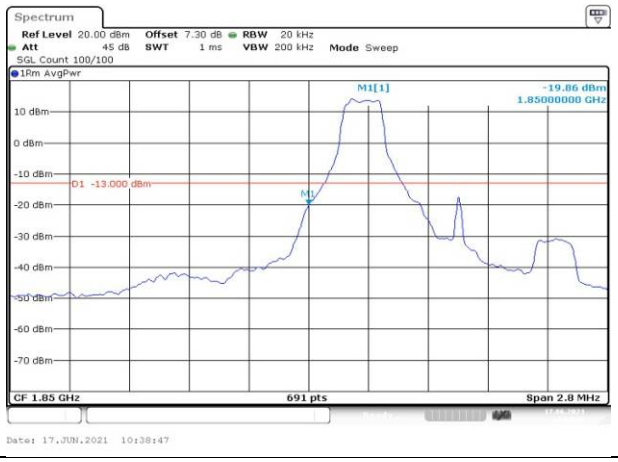

Fig.1

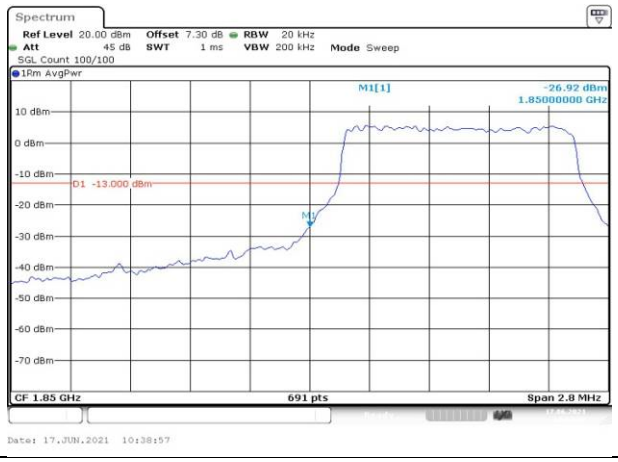

Fig.2

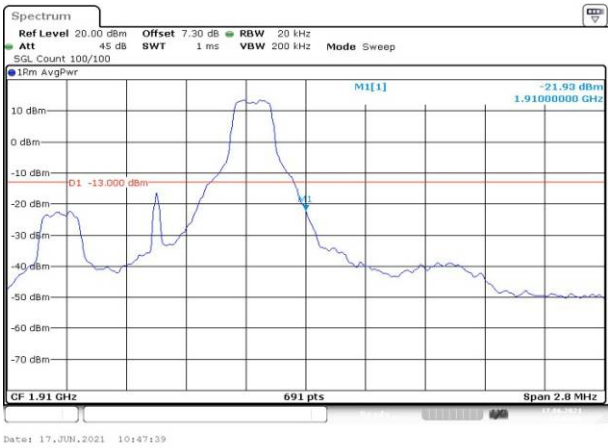

Fig.3

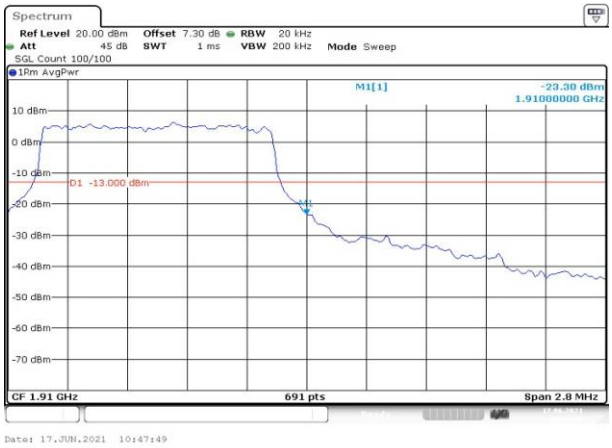

Fig.4

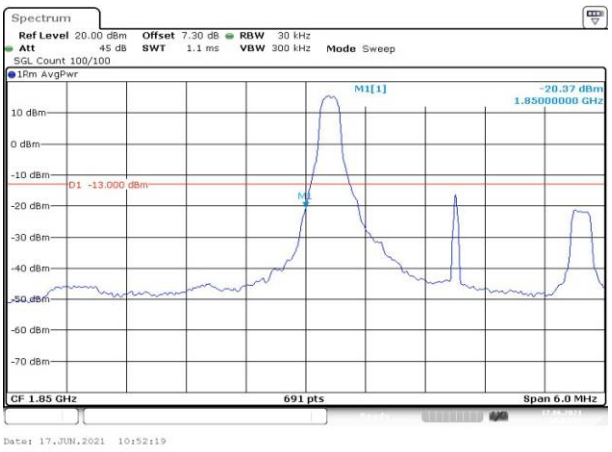

Fig.5

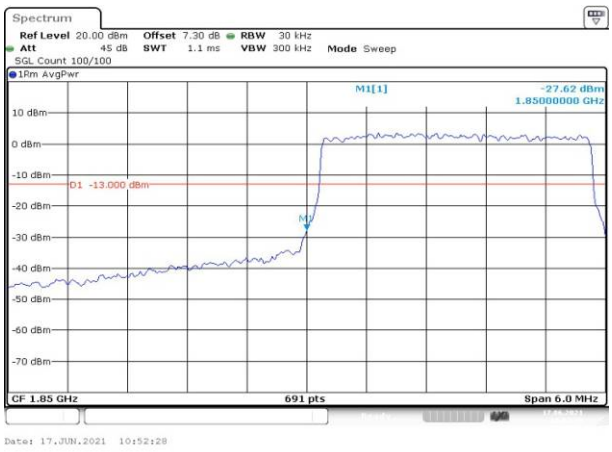

Fig.6

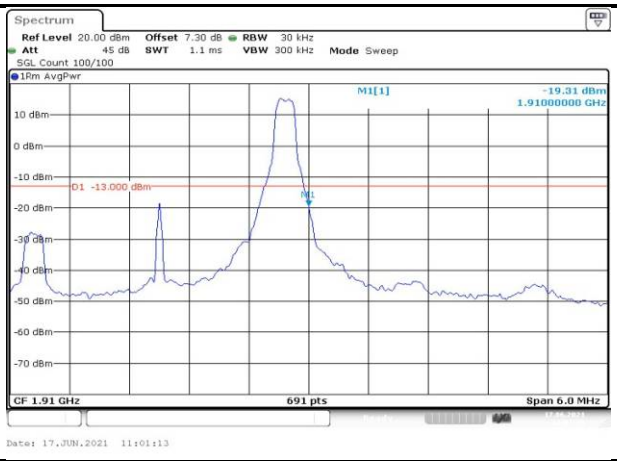

Fig.7

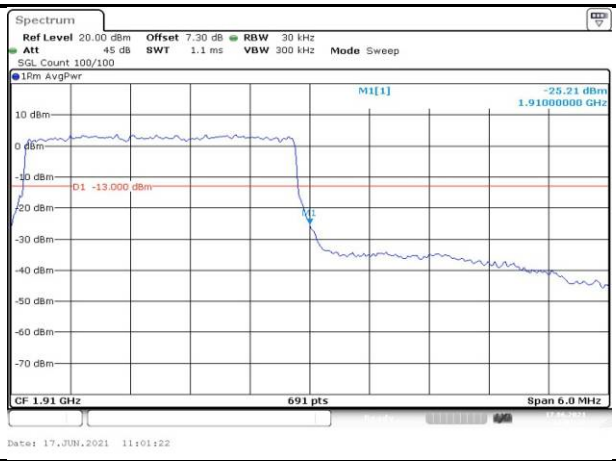

Fig.8

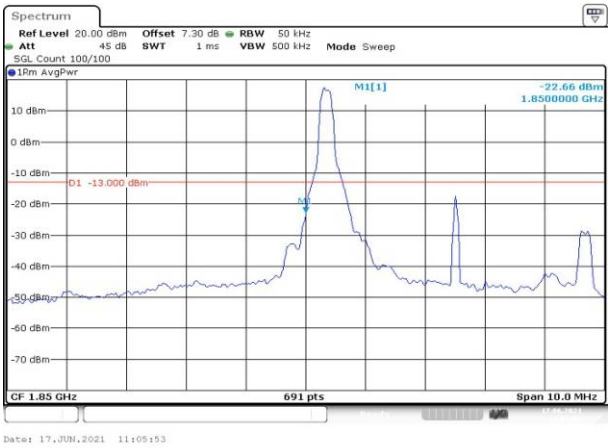

Fig.9

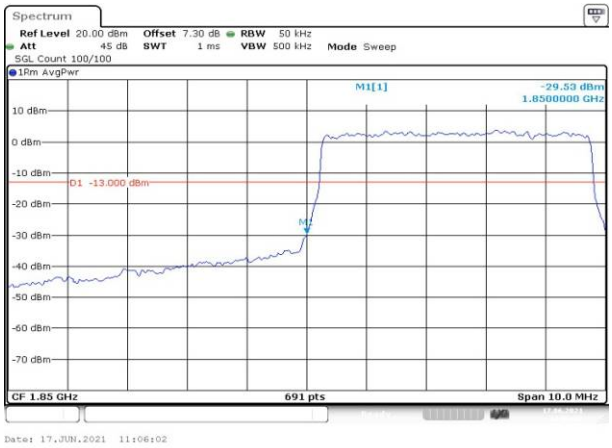

Fig.10

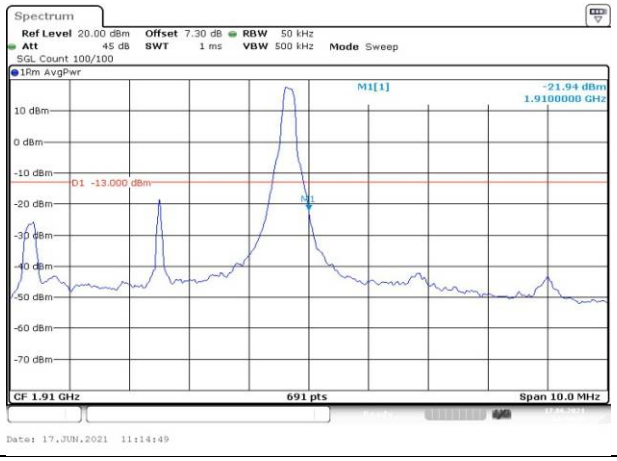

Fig.11

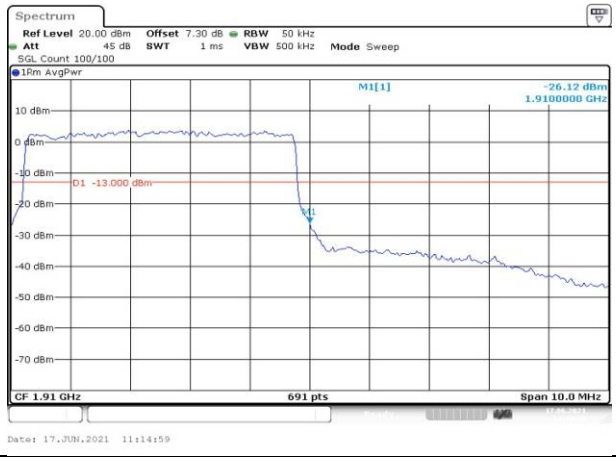

Fig.12

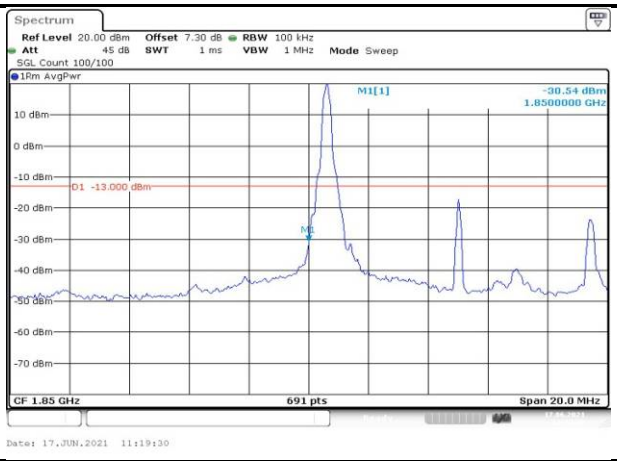

Fig.13

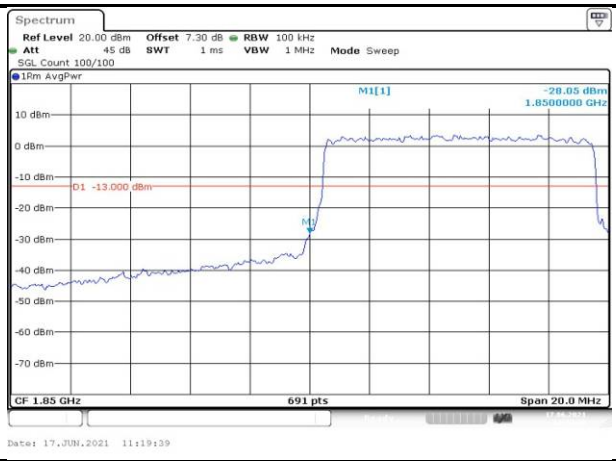

Fig.14

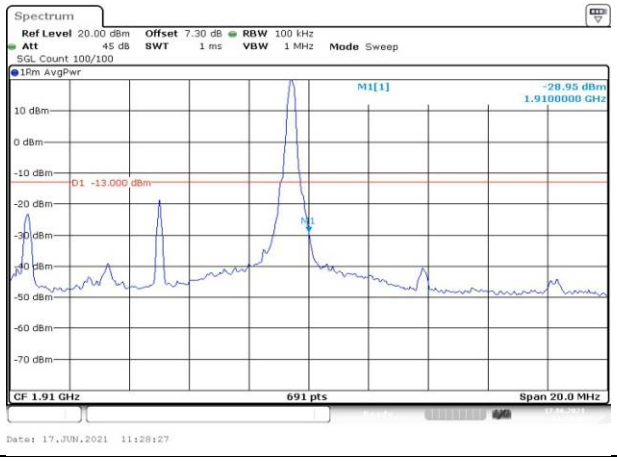

Fig.15

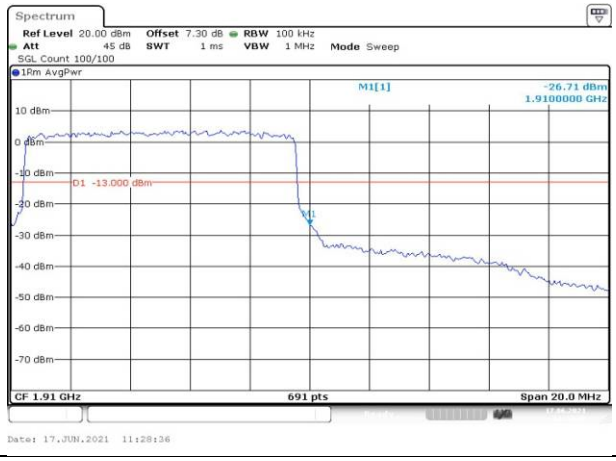

Fig.16

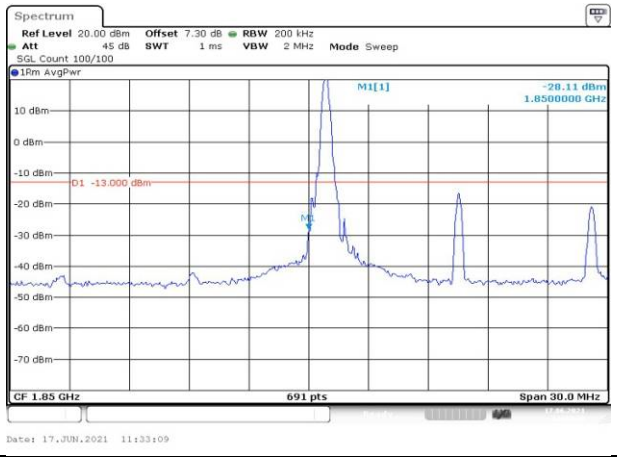

Fig.17

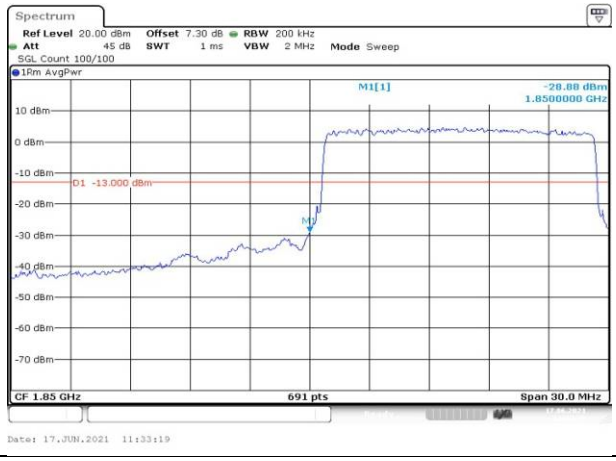

Fig.18

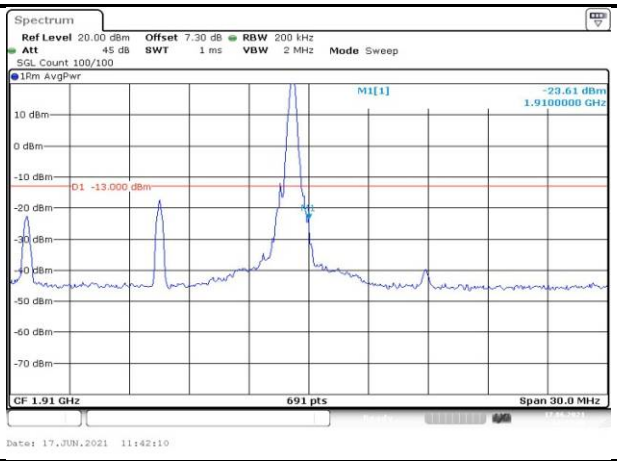

Fig.19

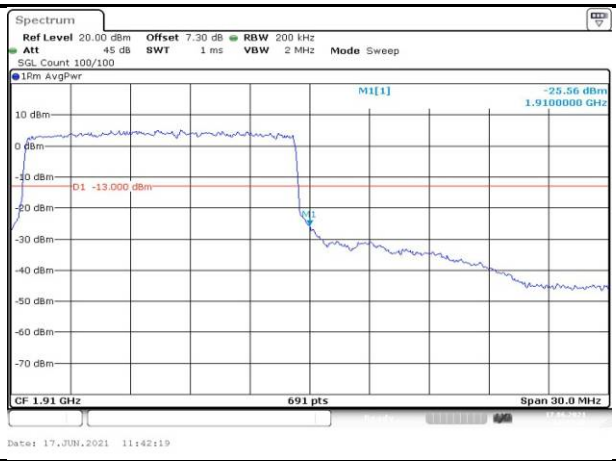

Fig.20

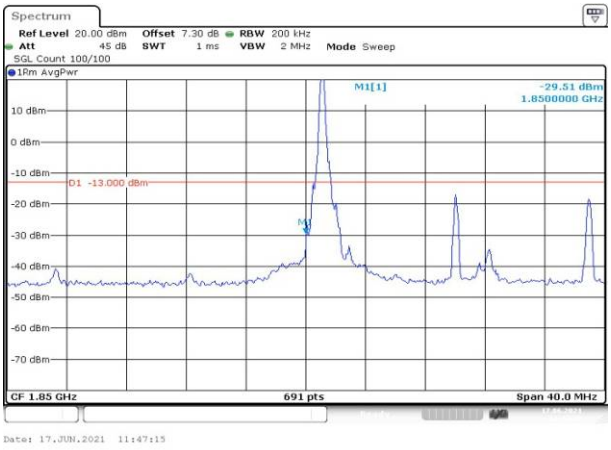

Fig.21

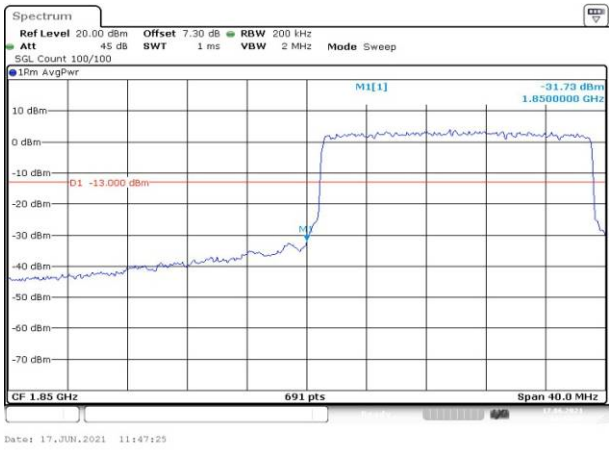

Fig.22

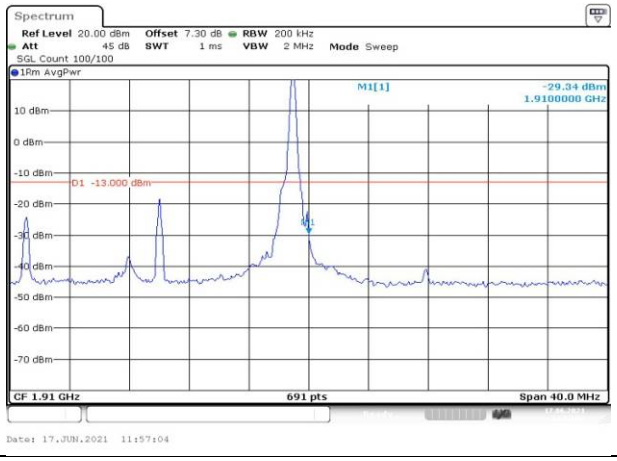

Fig.23

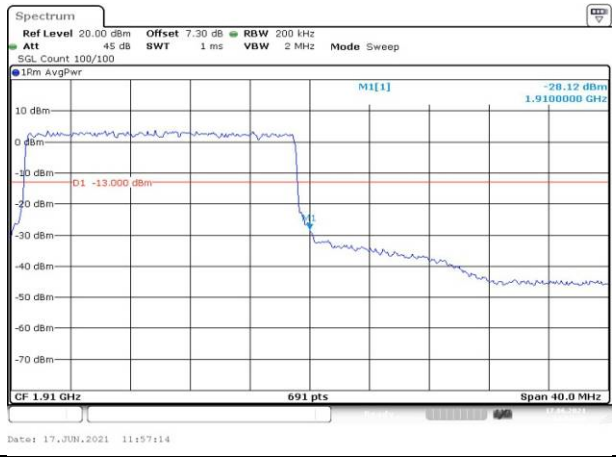

Fig.24

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band2 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.007	0.001	0.001	0.003	-0.001	0.002
0	NV	-0.001	0.001	0.000	-0.002	-0.003	0.002
+10	NV	-0.002	0.004	0.001	-0.002	-0.002	0.002
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	-0.008	0.001	-0.001	0.003	-0.001	0.001
+40	NV	0.009	0.001	0.001	0.002	-0.002	0.001
+50	NV	0.006	0.001	0.003	-0.002	-0.002	0.001
+55	NV	-0.005	0.001	0.001	-0.001	-0.001	0.000
+20	LV	0.004	-0.001	0.002	-0.001	-0.001	0.001
+20	HV	-0.005	0.001	0.006	-0.005	-0.001	0.002

Temperature(°C)	Voltage	Test Result (ppm) Band2 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.002	0.001	0.002	0.001	-0.001	-0.001
0	NV	0.004	0.002	0.000	0.001	-0.002	0.001
+10	NV	-0.001	0.001	0.002	0.001	-0.002	0.000
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	0.011	0.000	0.002	0.001	-0.003	0.001
+40	NV	0.002	0.001	0.001	0.002	-0.002	0.002
+50	NV	-0.003	0.002	0.002	0.000	-0.001	0.001
+55	NV	0.002	0.003	0.004	0.002	-0.001	-0.002
+20	LV	-0.003	-0.001	0.001	0.001	-0.001	-0.002
+20	HV	0.011	0.002	0.001	0.001	-0.002	-0.001

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	1850.7	18607	1.4	1	0	23.70	22.00	0.158
				1	3	23.86	22.16	0.164
				1	5	23.85	22.15	0.164
				3	0	23.91	22.21	0.166
				3	1	23.57	21.87	0.154
				3	3	23.57	21.87	0.154
				6	0	22.50	20.80	0.120
	1880	18900		1	0	23.16	21.46	0.140
				1	3	23.15	21.45	0.140
				1	5	23.15	21.45	0.140
				3	0	23.38	21.68	0.147
				3	1	23.37	21.67	0.147
				3	3	23.37	21.67	0.147
				6	0	22.23	20.53	0.113
	1909.3	19193		1	0	23.73	22.03	0.160
				1	3	23.65	21.95	0.157
				1	5	23.64	21.94	0.156
				3	0	23.38	21.68	0.147
				3	1	23.35	21.65	0.146
				3	3	23.45	21.75	0.150
				6	0	22.59	20.89	0.123
16QAM	1850.7	18607		1	0	22.69	20.99	0.126
				1	3	22.69	20.99	0.126
				1	5	22.68	20.98	0.125
				3	0	22.60	20.90	0.123
				3	1	22.73	21.03	0.127
				3	3	22.72	21.02	0.126
				6	0	21.53	19.83	0.096
	1880	18900		1	0	22.90	21.20	0.132
				1	3	22.91	21.21	0.132
				1	5	22.91	21.21	0.132
				3	0	22.66	20.96	0.125
				3	1	22.65	20.95	0.124
				3	3	22.66	20.96	0.125
				6	0	21.48	19.78	0.095
	1909.3	19193		1	0	22.64	20.94	0.124
				1	3	22.60	20.90	0.123
				1	5	22.60	20.90	0.123
				3	0	22.82	21.12	0.129
				3	1	22.81	21.11	0.129
				3	3	22.70	21.00	0.126
				6	0	21.38	19.68	0.093

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1850.7	18607	1.4	1	0	21.83	20.13	0.103
				1	3	21.83	20.13	0.103
				1	5	21.82	20.12	0.103
				3	0	21.82	20.12	0.103
				3	1	21.82	20.12	0.103
				3	3	21.83	20.13	0.103
				6	0	21.83	20.13	0.103
	1880	18900		1	0	21.48	19.78	0.095
				1	3	21.48	19.78	0.095
				1	5	21.48	19.78	0.095
				3	0	21.48	19.78	0.095
				3	1	21.48	19.78	0.095
				3	3	21.48	19.78	0.095
				6	0	21.48	19.78	0.095
	1909.3	19193		1	0	21.56	19.86	0.097
				1	3	21.56	19.86	0.097
				1	5	21.56	19.86	0.097
				3	0	21.56	19.86	0.097
				3	1	21.56	19.86	0.097
				3	3	21.65	19.95	0.099
				6	0	21.65	19.95	0.099

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1851.5	18615	3	1	0	23.59	21.89	0.155
				1	8	23.45	21.75	0.150
				1	14	23.58	21.88	0.154
				8	0	22.58	20.88	0.122
				8	4	22.54	20.84	0.121
				8	7	22.54	20.84	0.121
				15	0	22.57	20.87	0.122
	1880	18900		1	0	22.85	21.15	0.130
				1	8	22.90	21.20	0.132
				1	14	22.90	21.20	0.132
				8	0	22.25	20.55	0.114
				8	4	22.28	20.58	0.114
				8	7	22.28	20.58	0.114
				15	0	22.16	20.46	0.111
	1908.5	19185		1	0	23.59	21.89	0.155
				1	8	23.64	21.94	0.156
				1	14	23.63	21.93	0.156
				8	0	22.60	20.90	0.123
				8	4	22.65	20.95	0.124
				8	7	22.65	20.95	0.124
				15	0	22.63	20.93	0.124
16QAM	1851.5	18615		1	0	22.97	21.27	0.134
				1	8	22.88	21.18	0.131
				1	14	22.88	21.18	0.131
				8	0	21.76	20.06	0.101
				8	4	21.72	20.02	0.100
				8	7	21.72	20.02	0.100
				15	0	21.61	19.91	0.098
	1880	18900		1	0	22.34	20.64	0.116
				1	8	22.28	20.58	0.114
				1	14	22.29	20.59	0.115
				8	0	21.23	19.53	0.090
				8	4	21.25	19.55	0.090
				8	7	21.25	19.55	0.090
				15	0	21.09	19.39	0.087
	1908.5	19185		1	0	22.42	20.72	0.118
				1	8	22.54	20.84	0.121
				1	14	22.44	20.74	0.119
				8	0	21.83	20.13	0.103
				8	4	21.79	20.09	0.102
				8	7	21.52	19.82	0.096
				15	0	21.71	20.01	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1851.5	18615	3	1	0	21.61	19.91	0.098
				1	8	21.52	19.82	0.096
				1	14	21.52	19.82	0.096
				8	0	21.52	19.82	0.096
				8	4	21.52	19.82	0.096
				8	7	21.52	19.82	0.096
				15	0	21.52	19.82	0.096
	1880	18900		1	0	21.09	19.39	0.087
				1	8	21.09	19.39	0.087
				1	14	21.09	19.39	0.087
				8	0	21.09	19.39	0.087
				8	4	21.09	19.39	0.087
				8	7	21.09	19.39	0.087
				15	0	21.09	19.39	0.087
	1908.5	19185		1	0	21.71	20.01	0.100
				1	8	21.71	20.01	0.100
				1	14	21.72	20.02	0.100
				8	0	21.72	20.02	0.100
				8	4	21.72	20.02	0.100
				8	7	21.72	20.02	0.100
				15	0	21.72	20.02	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1852.5	18625	5	1	0	23.46	21.76	0.150
				1	12	23.27	21.57	0.144
				1	24	23.26	21.56	0.143
				12	0	22.53	20.83	0.121
				12	7	22.53	20.83	0.121
				12	13	22.53	20.83	0.121
				25	0	22.57	20.87	0.122
	1880	18900		1	0	22.87	21.17	0.131
				1	12	22.83	21.13	0.130
				1	24	22.83	21.13	0.130
				12	0	22.30	20.60	0.115
				12	7	22.26	20.56	0.114
				12	13	22.26	20.56	0.114
				25	0	22.14	20.44	0.111
	1907.5	19175		1	0	23.26	21.56	0.143
				1	12	23.26	21.56	0.143
				1	24	23.26	21.56	0.143
				12	0	22.66	20.96	0.125
				12	7	22.65	20.95	0.124
				12	13	22.65	20.95	0.124
				25	0	22.65	20.95	0.124
16QAM	1852.5	18625		1	0	21.84	20.14	0.103
				1	12	21.88	20.18	0.104
				1	24	21.88	20.18	0.104
				12	0	21.22	19.52	0.090
				12	7	21.13	19.43	0.088
				12	13	21.14	19.44	0.088
				25	0	21.56	19.86	0.097
	1880	18900		1	0	22.40	20.70	0.117
				1	12	22.75	21.05	0.127
				1	24	22.75	21.05	0.127
				12	0	21.15	19.45	0.088
				12	7	21.23	19.53	0.090
				12	13	21.22	19.52	0.090
				25	0	21.14	19.44	0.088
	1907.5	19175		1	0	22.28	20.58	0.114
				1	12	22.31	20.61	0.115
				1	24	22.47	20.77	0.119
				12	0	21.32	19.62	0.092
				12	7	21.37	19.67	0.093
				12	13	21.40	19.70	0.093
				25	0	21.68	19.98	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1852.5	18625	5	1	0	21.57	19.87	0.097
				1	12	21.56	19.86	0.097
				1	24	21.56	19.86	0.097
				12	0	21.56	19.86	0.097
				12	7	21.56	19.86	0.097
				12	13	21.56	19.86	0.097
				25	0	21.56	19.86	0.097
	1880	18900		1	0	21.14	19.44	0.088
				1	12	21.14	19.44	0.088
				1	24	21.14	19.44	0.088
				12	0	21.14	19.44	0.088
				12	7	21.14	19.44	0.088
				12	13	21.14	19.44	0.088
				25	0	21.14	19.44	0.088
	1907.5	19175		1	0	21.68	19.98	0.100
				1	12	21.68	19.98	0.100
				1	24	21.68	19.98	0.100
				12	0	21.68	19.98	0.100
				12	7	21.50	19.80	0.095
				12	13	21.78	20.08	0.102
				25	0	21.78	20.08	0.102

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1855	18650	10	1	0	23.47	21.77	0.150
				1	25	23.17	21.47	0.140
				1	49	23.16	21.46	0.140
				25	0	22.59	20.89	0.123
				25	12	22.38	20.68	0.117
				25	25	22.39	20.69	0.117
				50	0	22.43	20.73	0.118
	1880	18900		1	0	23.07	21.37	0.137
				1	25	23.39	21.69	0.148
				1	49	23.39	21.69	0.148
				25	0	22.26	20.56	0.114
				25	12	22.36	20.66	0.116
				25	25	22.36	20.66	0.116
				50	0	22.35	20.65	0.116
	1905	19150		1	0	23.44	21.74	0.149
				1	25	23.56	21.86	0.153
				1	49	23.56	21.86	0.153
				25	0	22.62	20.92	0.124
				25	12	22.74	21.04	0.127
				25	25	22.64	20.94	0.124
				50	0	22.58	20.88	0.122
16QAM	1855	18650		1	0	23.06	21.36	0.137
				1	25	22.86	21.16	0.131
				1	49	22.86	21.16	0.131
				25	0	21.62	19.92	0.098
				25	12	21.42	19.72	0.094
				25	25	21.52	19.82	0.096
				50	0	21.43	19.73	0.094
	1880	18900		1	0	22.67	20.97	0.125
				1	25	23.08	21.38	0.137
				1	49	23.08	21.38	0.137
				25	0	21.15	19.45	0.088
				25	12	21.44	19.74	0.094
				25	25	21.44	19.74	0.094
				50	0	21.34	19.64	0.092
	1905	19150		1	0	22.63	20.93	0.124
				1	25	22.78	21.08	0.128
				1	49	22.79	21.09	0.129
				25	0	21.81	20.11	0.103
				25	12	21.63	19.93	0.098
				25	25	21.63	19.93	0.098
				50	0	21.52	19.82	0.096

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1855	18650	10	1	0	21.43	19.73	0.094
				1	25	21.43	19.73	0.094
				1	49	21.43	19.73	0.094
				25	0	21.43	19.73	0.094
				25	12	21.34	19.64	0.092
				25	25	21.34	19.64	0.092
				50	0	21.34	19.64	0.092
	1880	18900		1	0	21.34	19.64	0.092
				1	25	21.34	19.64	0.092
				1	49	21.34	19.64	0.092
				25	0	21.34	19.64	0.092
				25	12	21.34	19.64	0.092
				25	25	21.34	19.64	0.092
				50	0	21.34	19.64	0.092
	1905	19150		1	0	21.52	19.82	0.096
				1	25	21.52	19.82	0.096
				1	49	21.52	19.82	0.096
				25	0	21.52	19.82	0.096
				25	12	21.52	19.82	0.096
				25	25	21.52	19.82	0.096
				50	0	21.52	19.82	0.096

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1857.5	18675	15	1	0	23.80	22.10	0.162
				1	37	23.37	21.67	0.147
				1	74	23.36	21.66	0.147
				36	0	22.61	20.91	0.123
				36	29	22.40	20.70	0.117
				36	30	22.41	20.71	0.118
				75	0	22.37	20.67	0.117
	1880	18900		1	0	23.01	21.31	0.135
				1	37	23.49	21.79	0.151
				1	74	23.49	21.79	0.151
				36	0	22.25	20.55	0.114
				36	29	22.33	20.63	0.116
				36	30	22.33	20.63	0.116
				75	0	22.28	20.58	0.114
	1902.5	19125		1	0	23.17	21.47	0.140
				1	37	23.42	21.72	0.149
				1	74	23.42	21.72	0.149
				36	0	22.47	20.77	0.119
				36	29	22.60	20.90	0.123
				36	30	22.60	20.90	0.123
				75	0	22.61	20.91	0.123
16QAM	1857.5	18675		1	0	23.13	21.43	0.139
				1	37	22.75	21.05	0.127
				1	74	22.75	21.05	0.127
				36	0	21.65	19.95	0.099
				36	29	21.33	19.63	0.092
				36	30	21.45	19.75	0.094
				75	0	21.39	19.69	0.093
	1880	18900		1	0	22.62	20.92	0.124
				1	37	23.10	21.40	0.138
				1	74	23.10	21.40	0.138
				36	0	21.15	19.45	0.088
				36	29	21.35	19.65	0.092
				36	30	21.35	19.65	0.092
				75	0	21.32	19.62	0.092
	1902.5	19125		1	0	22.67	20.97	0.125
				1	37	23.05	21.35	0.136
				1	74	23.05	21.35	0.136
				36	0	21.38	19.68	0.093
				36	29	21.49	19.79	0.095
				36	30	21.49	19.79	0.095
				75	0	21.40	19.70	0.093

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1857.5	18675	15	1	0	21.40	19.70	0.093
				1	37	21.40	19.70	0.093
				1	74	21.40	19.70	0.093
				36	0	21.40	19.70	0.093
				36	29	21.40	19.70	0.093
				36	30	21.40	19.70	0.093
				75	0	21.40	19.70	0.093
	1880	18900		1	0	21.32	19.62	0.092
				1	37	21.32	19.62	0.092
				1	74	21.32	19.62	0.092
				36	0	21.32	19.62	0.092
				36	29	21.32	19.62	0.092
				36	30	21.33	19.63	0.092
				75	0	21.32	19.62	0.092
	1902.5	19125		1	0	21.40	19.70	0.093
				1	37	21.40	19.70	0.093
				1	74	21.51	19.81	0.096
				36	0	21.51	19.81	0.096
				36	29	21.51	19.81	0.096
				36	30	21.51	19.81	0.096
				75	0	21.51	19.81	0.096

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1860	18700	20	1	0	23.43	21.73	0.149
				1	49	23.43	21.73	0.149
				1	99	23.52	21.82	0.152
				50	0	22.51	20.81	0.121
				50	24	22.41	20.71	0.118
				50	50	22.41	20.71	0.118
				100	0	22.46	20.76	0.119
	1880	18900		1	0	23.34	21.64	0.146
				1	49	23.76	22.06	0.161
				1	99	23.76	22.06	0.161
				50	0	22.39	20.69	0.117
				50	24	22.41	20.71	0.118
				50	50	22.41	20.71	0.118
				100	0	22.34	20.64	0.116
	1900	19100		1	0	23.22	21.52	0.142
				1	49	23.71	22.01	0.159
				1	99	23.71	22.01	0.159
				50	0	22.59	20.89	0.123
				50	24	22.63	20.93	0.124
				50	50	22.62	20.92	0.124
				100	0	22.63	20.93	0.124
16QAM	1860	18700		1	0	22.91	21.21	0.132
				1	49	23.00	21.30	0.135
				1	99	23.00	21.30	0.135
				50	0	21.58	19.88	0.097
				50	24	21.37	19.67	0.093
				50	50	21.39	19.69	0.093
				100	0	21.47	19.77	0.095
	1880	18900		1	0	22.60	20.90	0.123
				1	49	22.58	20.88	0.122
				1	99	22.58	20.88	0.122
				50	0	21.24	19.54	0.090
				50	24	21.40	19.70	0.093
				50	50	21.40	19.70	0.093
				100	0	21.35	19.65	0.092
	1900	19100		1	0	23.34	21.64	0.146
				1	49	23.54	21.84	0.153
				1	99	23.54	21.84	0.153
				50	0	21.58	19.88	0.097
				50	24	21.71	20.01	0.100
				50	50	21.71	20.01	0.100
				100	0	21.55	19.85	0.097

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1860	18700	20	1	0	21.47	19.77	0.095
				1	49	21.47	19.77	0.095
				1	99	21.46	19.76	0.095
				50	0	21.46	19.76	0.095
				50	24	21.46	19.76	0.095
				50	50	21.46	19.76	0.095
				100	0	21.46	19.76	0.095
	1880	18900		1	0	21.35	19.65	0.092
				1	49	21.35	19.65	0.092
				1	99	21.35	19.65	0.092
				50	0	21.35	19.65	0.092
				50	24	21.35	19.65	0.092
				50	50	21.35	19.65	0.092
				100	0	21.35	19.65	0.092
	1900	19100		1	0	21.55	19.85	0.097
				1	49	21.55	19.85	0.097
				1	99	21.55	19.85	0.097
				50	0	21.55	19.85	0.097
				50	24	21.55	19.85	0.097
				50	50	21.55	19.85	0.097
				100	0	21.55	19.85	0.097