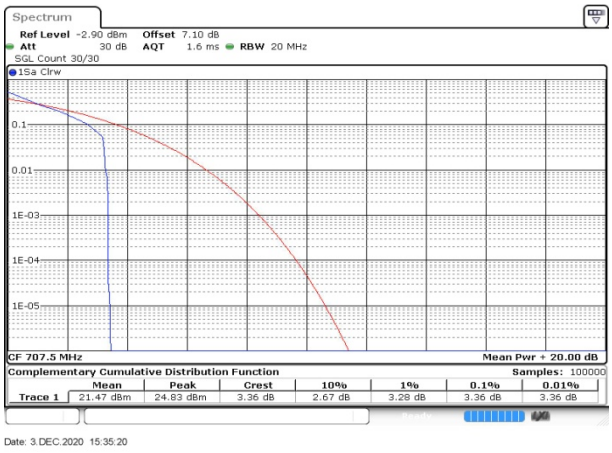

Fig.61

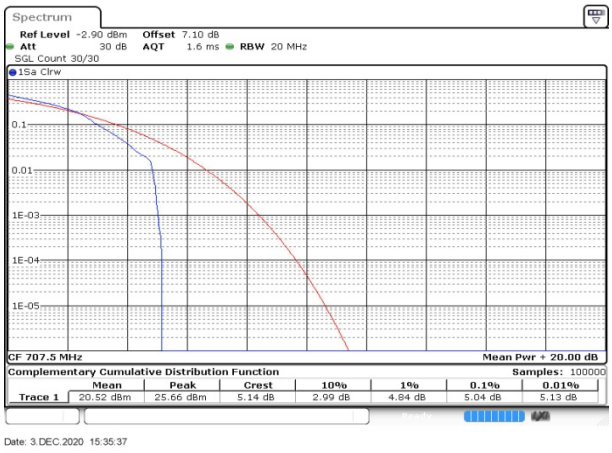

Fig.62

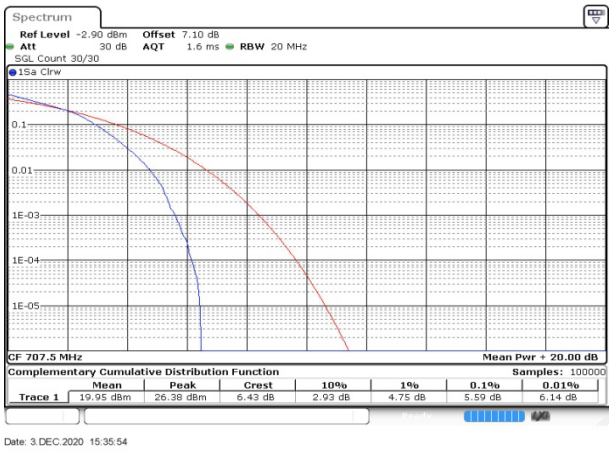

Fig.63

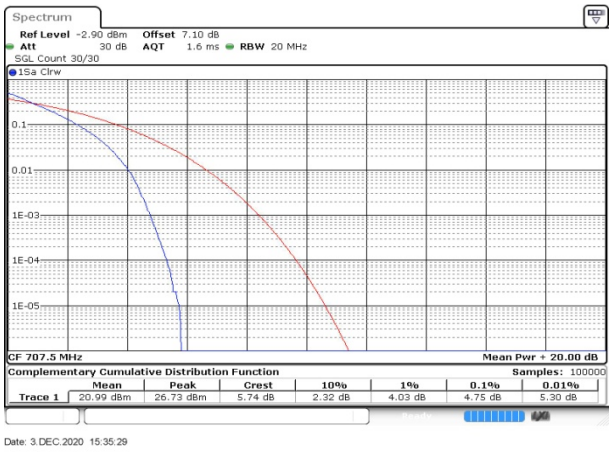

Fig.64

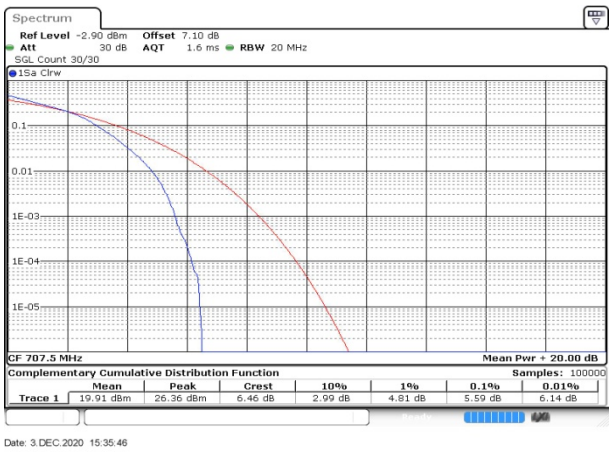

Fig.65

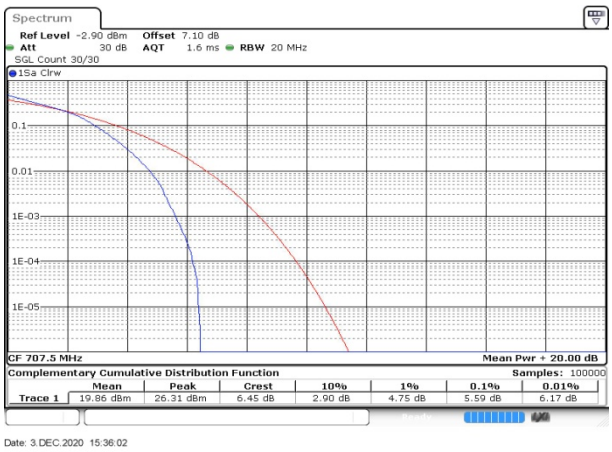

Fig.66

Fig.67

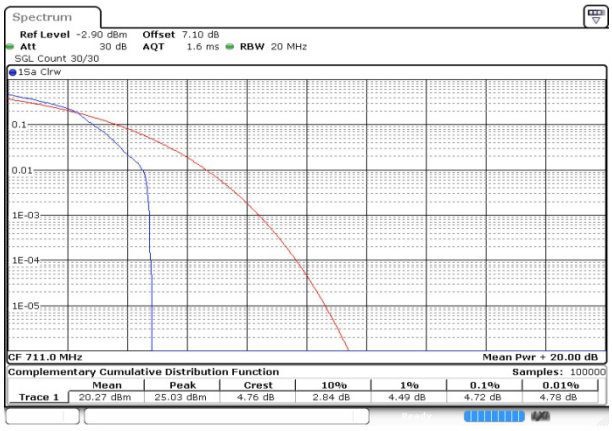

Fig.68

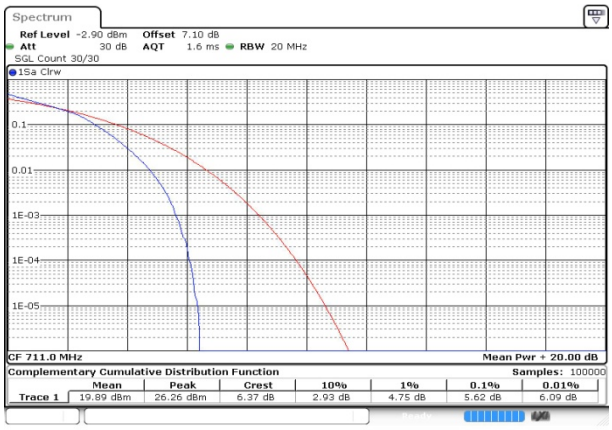

Fig.69

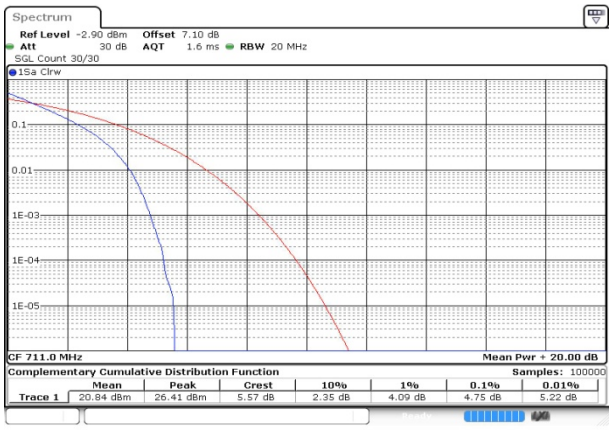

Fig.70

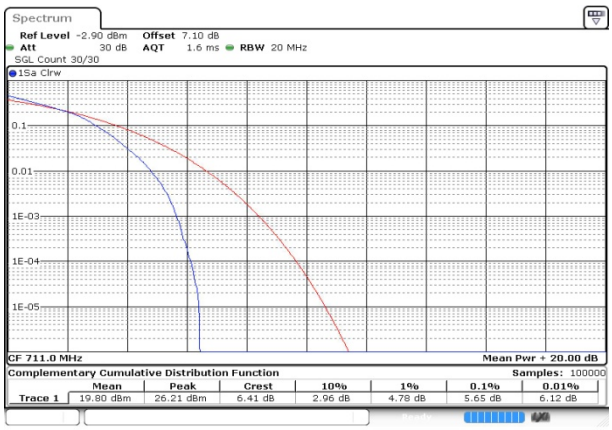

Fig.71

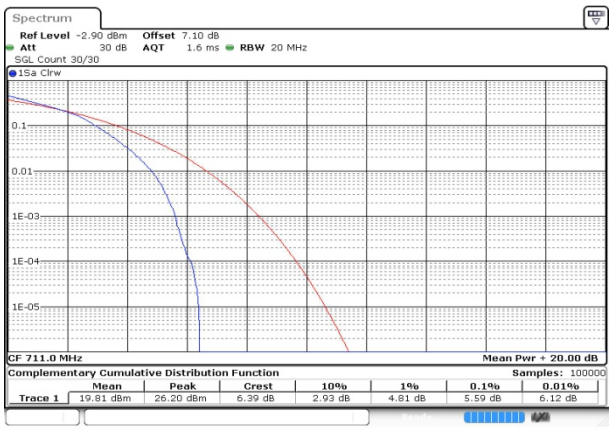

Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
12	704	23060	10	1	99	Fig.1
	707.5	23095		1	99	Fig.2
	711	23130		1	99	Fig.3

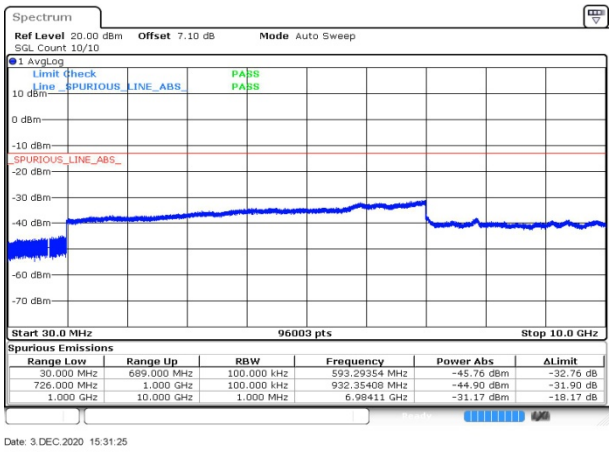

Fig.1

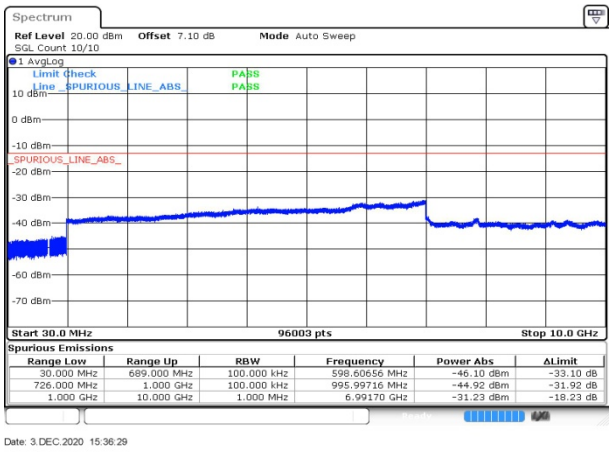

Fig.2

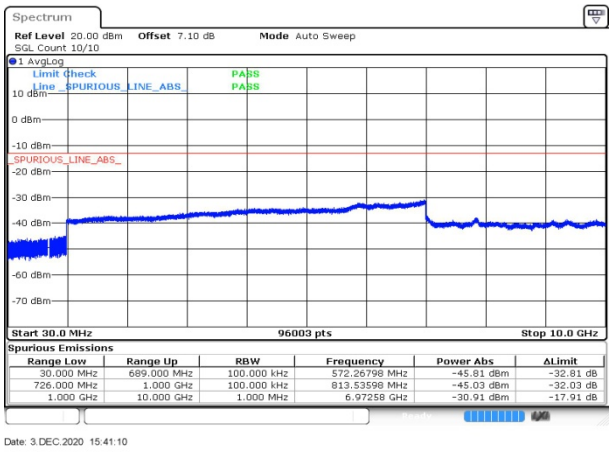

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
12	699.7	23017	1.4	1	0	Fig.1
				6	0	Fig.2
	715.3	23173		1	5	Fig.3
				6	0	Fig.4
	700.5	23025	3	1	0	Fig.5
				15	0	Fig.6
	714.5	23165		1	14	Fig.7
				15	0	Fig.8
	701.5	23035	5	1	0	Fig.9
				25	0	Fig.10
	713.5	23155		1	24	Fig.11
				25	0	Fig.12
	704	23060	10	1	0	Fig.13
				50	0	Fig.14
	711	23130		1	49	Fig.15
				50	0	Fig.16

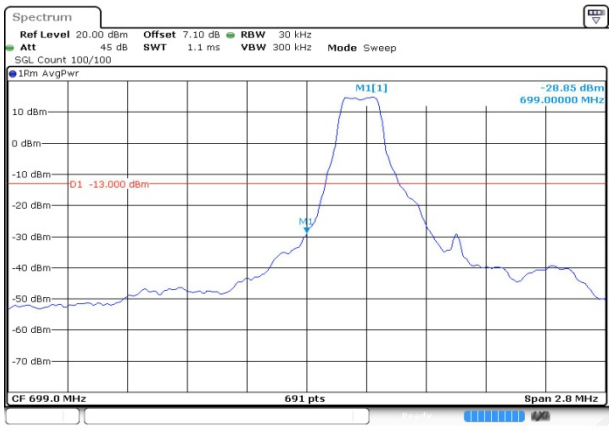

Fig.1

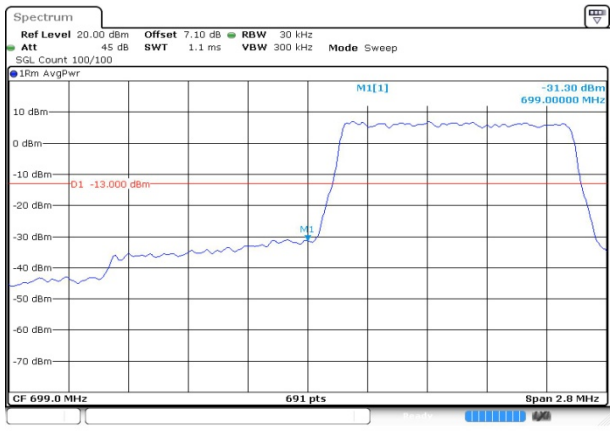

Fig.2

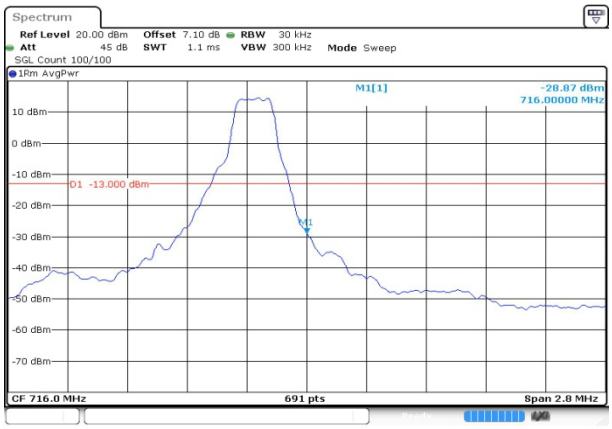

Fig.3

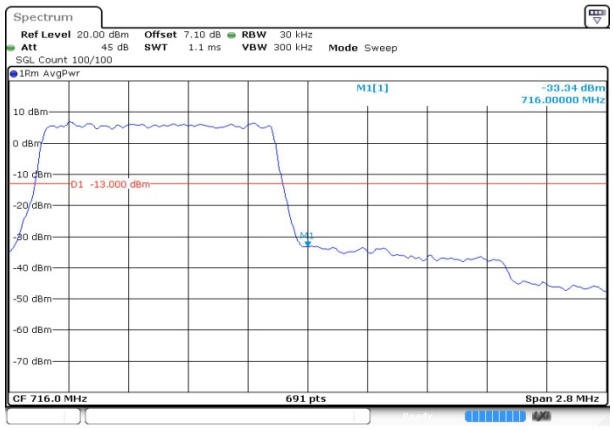

Fig.4

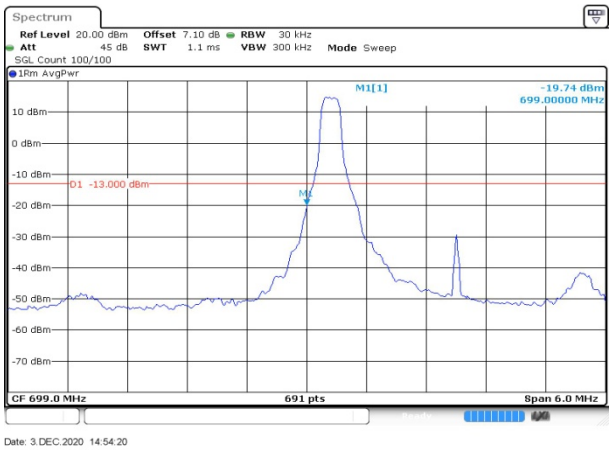

Fig.5

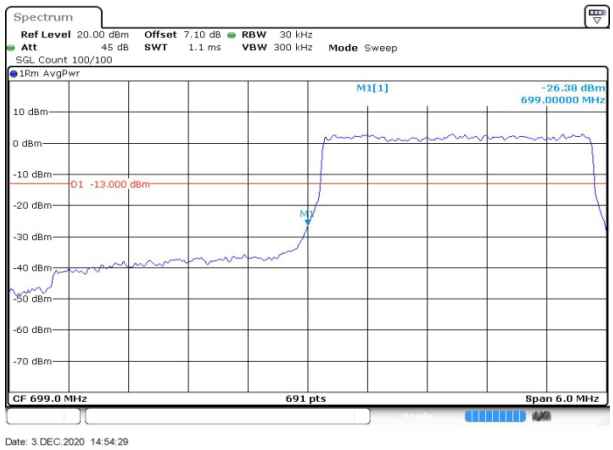

Fig.6

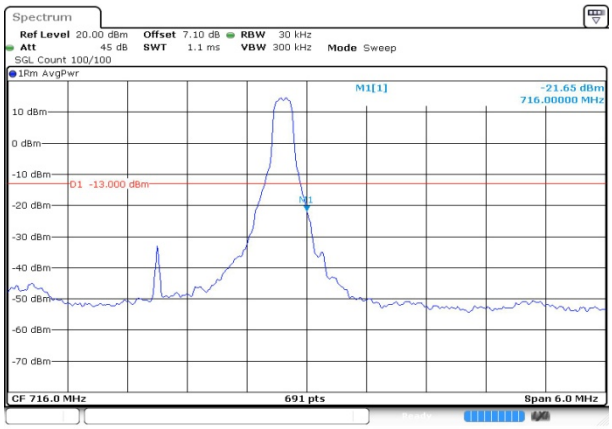

Fig.7

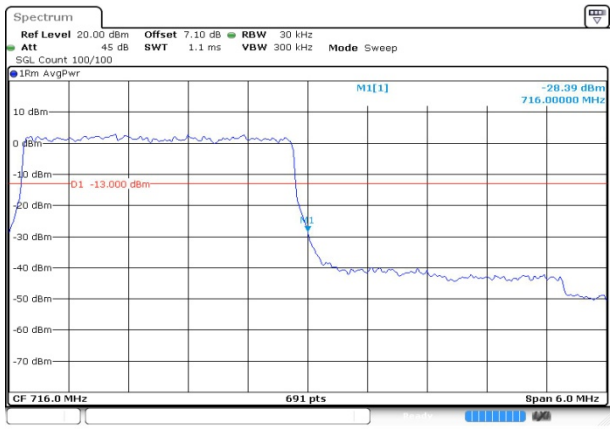

Fig.8

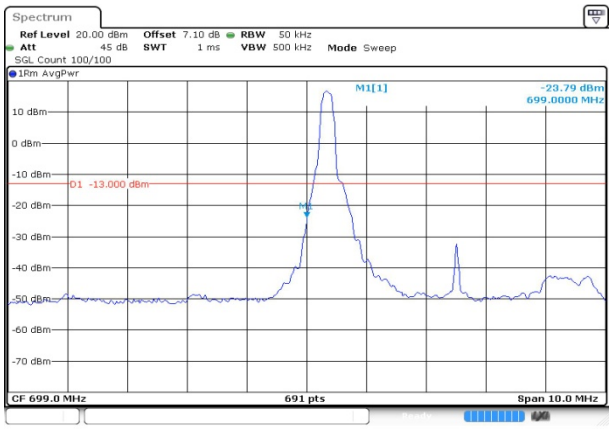

Fig.9

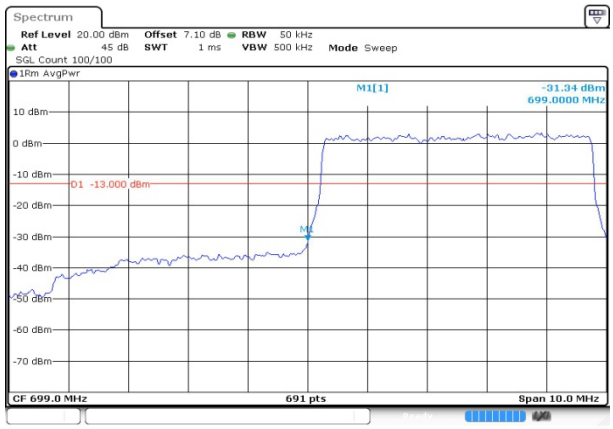

Fig.10

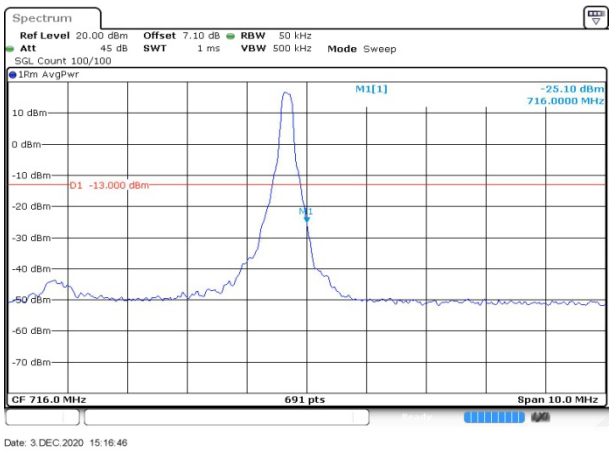

Fig.11

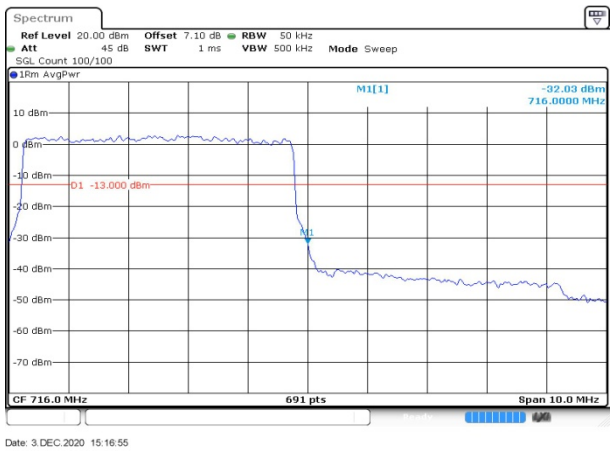

Fig.12

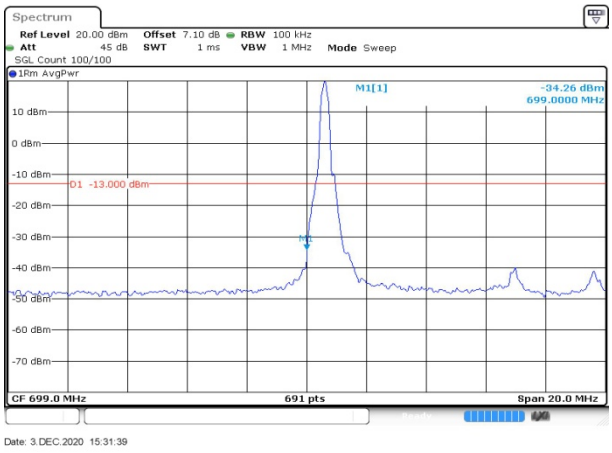

Fig.13

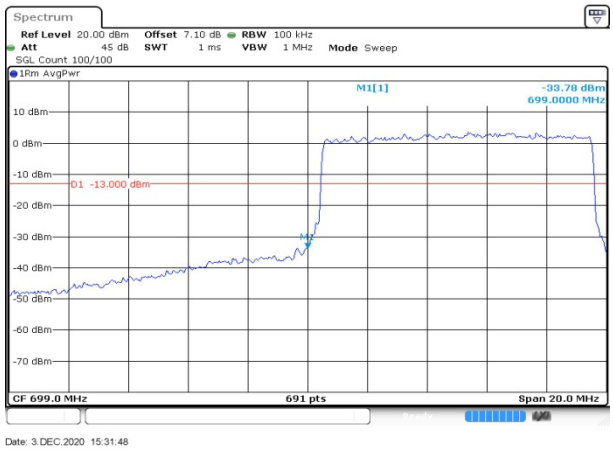

Fig.14

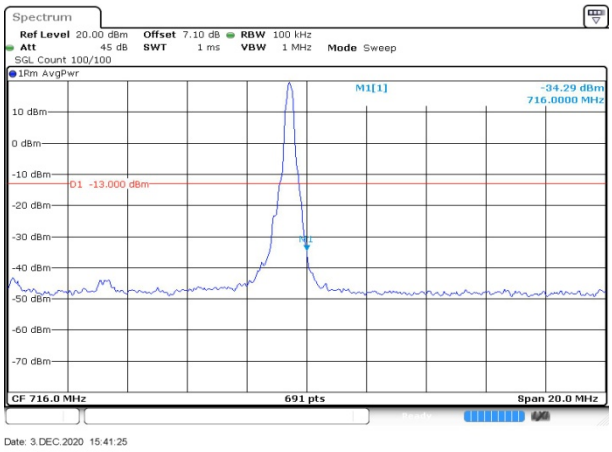

Fig.15

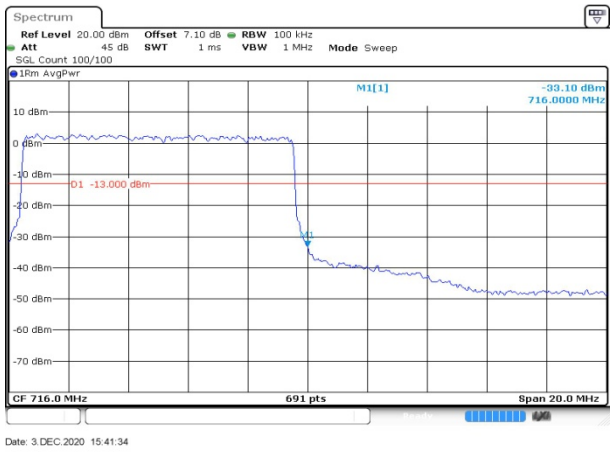

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band12 Low Channel QPSK			
		1.4M	3M	5M	10M
-20	NV	0.003	0.001	-0.001	0.009
-10	NV	-0.007	0.006	-0.002	0.007
0	NV	0.002	0.005	0.001	0.010
+10	NV	0.009	0.006	-0.005	0.003
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.007	0.001	-0.002	0.010
+40	NV	-0.018	0.004	-0.002	0.007
+50	NV	0.000	0.006	0.004	-0.001
+60	NV	0.008	0.005	-0.003	0.008
+20	LV	-0.008	0.007	-0.005	0.001
+20	HV	-0.004	0.002	-0.005	0.006

Temperature(°C)	Voltage	Test Result (ppm) Band12 High Channel QPSK			
		1.4M	3M	5M	10M
-20	NV	0.010	0.000	0.009	0.002
-10	NV	-0.018	-0.001	0.004	0.003
0	NV	0.003	0.003	0.009	0.010
+10	NV	-0.026	-0.002	0.006	0.003
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.008	-0.003	0.013	-0.001
+40	NV	0.007	0.005	0.000	0.000
+50	NV	0.010	-0.002	0.008	-0.004
+60	NV	0.009	-0.004	0.007	-0.001
+20	LV	0.006	0.000	0.005	0.000
+20	HV	-0.011	-0.003	0.005	0.004

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequerncy (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	22.52	20.37	0.109
				1	3	22.59	20.44	0.111
				1	5	22.55	20.40	0.110
				3	0	22.53	20.38	0.109
				3	1	22.50	20.35	0.108
				3	3	22.56	20.41	0.110
				6	0	21.72	19.57	0.091
	707.5	23095		1	0	22.52	20.37	0.109
				1	3	22.54	20.39	0.109
				1	5	22.52	20.37	0.109
				3	0	22.40	20.25	0.106
				3	1	22.32	20.17	0.104
				3	3	22.39	20.24	0.106
				6	0	21.59	19.44	0.088
	715.3	23173		1	0	22.34	20.19	0.104
				1	3	22.42	20.27	0.106
				1	5	22.43	20.28	0.107
				3	0	22.30	20.15	0.104
				3	1	22.37	20.22	0.105
				3	3	22.36	20.21	0.105
				6	0	21.35	19.20	0.083
16QAM	699.7	23017		1	0	21.67	19.52	0.090
				1	3	21.74	19.59	0.091
				1	5	21.74	19.59	0.091
				3	0	21.63	19.48	0.089
				3	1	21.66	19.51	0.089
				3	3	21.64	19.49	0.089
				6	0	20.60	18.45	0.070
	707.5	23095		1	0	21.62	19.47	0.089
				1	3	21.58	19.43	0.088
				1	5	21.60	19.45	0.088
				3	0	21.77	19.62	0.092
				3	1	21.76	19.61	0.091
				3	3	21.77	19.62	0.092
				6	0	20.61	18.46	0.070
	715.3	23173		1	0	21.42	19.27	0.085
				1	3	21.50	19.35	0.086
				1	5	21.48	19.33	0.086
				3	0	21.18	19.03	0.080
				3	1	21.24	19.09	0.081
				3	3	21.26	19.11	0.081
				6	0	20.42	18.27	0.067

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	699.7	23017	1.4	1	0	20.56	18.41	0.069
				1	3	20.57	18.42	0.070
				1	5	20.51	18.36	0.069
				3	0	20.60	18.45	0.070
				3	1	20.59	18.44	0.070
				3	3	20.59	18.44	0.070
				6	0	20.60	18.45	0.070
	707.5	23095		1	0	20.62	18.47	0.070
				1	3	20.62	18.47	0.070
				1	5	20.61	18.46	0.070
				3	0	20.63	18.48	0.070
				3	1	20.61	18.46	0.070
				3	3	20.59	18.44	0.070
				6	0	20.56	18.41	0.069
	715.3	23173		1	0	20.42	18.27	0.067
				1	3	20.37	18.22	0.066
				1	5	20.44	18.29	0.067
				3	0	20.37	18.22	0.066
				3	1	20.35	18.20	0.066
				3	3	20.42	18.27	0.067
				6	0	20.42	18.27	0.067

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	22.58	20.43	0.110
				1	8	22.53	20.38	0.109
				1	14	22.59	20.44	0.111
				8	0	21.71	19.56	0.090
				8	4	21.74	19.59	0.091
				8	7	21.71	19.56	0.090
				15	0	21.71	19.56	0.090
	707.5	23095		1	0	22.53	20.38	0.109
				1	8	22.55	20.40	0.110
				1	14	22.48	20.33	0.108
				8	0	21.61	19.46	0.088
				8	4	21.52	19.37	0.086
				8	7	21.56	19.41	0.087
				15	0	21.54	19.39	0.087
	714.5	23165		1	0	22.21	20.06	0.101
				1	8	22.28	20.13	0.103
				1	14	22.31	20.16	0.104
				8	0	21.37	19.22	0.084
				8	4	21.34	19.19	0.083
				8	7	21.38	19.23	0.084
				15	0	21.28	19.13	0.082
16QAM	700.5	23025		1	0	22.11	19.96	0.099
				1	8	22.20	20.05	0.101
				1	14	22.19	20.04	0.101
				8	0	20.93	18.78	0.076
				8	4	20.92	18.77	0.075
				8	7	20.92	18.77	0.075
				15	0	20.83	18.68	0.074
	707.5	23095		1	0	21.56	19.41	0.087
				1	8	21.56	19.41	0.087
				1	14	21.56	19.41	0.087
				8	0	20.52	18.37	0.069
				8	4	20.50	18.35	0.068
				8	7	20.49	18.34	0.068
				15	0	20.48	18.33	0.068
	714.5	23165		1	0	21.39	19.24	0.084
				1	8	21.34	19.19	0.083
				1	14	21.35	19.20	0.083
				8	0	20.34	18.19	0.066
				8	4	20.34	18.19	0.066
				8	7	20.41	18.26	0.067
				15	0	20.39	18.24	0.067

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	700.5	23025	3	1	0	20.80	18.65	0.073
				1	8	20.82	18.67	0.074
				1	14	20.82	18.67	0.074
				8	0	20.81	18.66	0.073
				8	4	20.81	18.66	0.073
				8	7	20.80	18.65	0.073
				15	0	20.80	18.65	0.073
	707.5	23095		1	0	20.47	18.32	0.068
				1	8	20.43	18.28	0.067
				1	14	20.45	18.30	0.068
				8	0	20.44	18.29	0.067
				8	4	20.43	18.28	0.067
				8	7	20.48	18.33	0.068
				15	0	20.50	18.35	0.068
	714.5	23165		1	0	20.35	18.20	0.066
				1	8	20.32	18.17	0.066
				1	14	20.42	18.27	0.067
				8	0	20.35	18.20	0.066
				8	4	20.33	18.18	0.066
				8	7	20.41	18.26	0.067
				15	0	20.31	18.16	0.065

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	22.49	20.34	0.108
				1	12	22.37	20.22	0.105
				1	24	22.46	20.31	0.107
				12	0	21.50	19.35	0.086
				12	7	21.59	19.44	0.088
				12	13	21.59	19.44	0.088
				25	0	21.53	19.38	0.087
	707.5	23095		1	0	22.37	20.22	0.105
				1	12	22.40	20.25	0.106
				1	24	22.38	20.23	0.105
				12	0	21.44	19.29	0.085
				12	7	21.49	19.34	0.086
				12	13	21.48	19.33	0.086
				25	0	21.50	19.35	0.086
	713.5	23155		1	0	22.33	20.18	0.104
				1	12	22.27	20.12	0.103
				1	24	22.31	20.16	0.104
				12	0	21.25	19.10	0.081
				12	7	21.35	19.20	0.083
				12	13	21.35	19.20	0.083
				25	0	21.28	19.13	0.082
16QAM	701.5	23035		1	0	21.42	19.27	0.085
				1	12	21.43	19.28	0.085
				1	24	21.44	19.29	0.085
				12	0	20.50	18.35	0.068
				12	7	20.51	18.36	0.069
				12	13	20.53	18.38	0.069
				25	0	20.62	18.47	0.070
	707.5	23095		1	0	21.71	19.56	0.090
				1	12	21.69	19.54	0.090
				1	24	21.63	19.48	0.089
				12	0	20.54	18.39	0.069
				12	7	20.53	18.38	0.069
				12	13	20.52	18.37	0.069
				25	0	20.51	18.36	0.069
	713.5	23155		1	0	21.38	19.23	0.084
				1	12	21.40	19.25	0.084
				1	24	21.28	19.13	0.082
				12	0	20.27	18.12	0.065
				12	7	20.28	18.13	0.065
				12	13	20.28	18.13	0.065
				25	0	20.32	18.17	0.066

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	701.5	23035	5	1	0	20.63	18.48	0.070
				1	12	20.63	18.48	0.070
				1	24	20.63	18.48	0.070
				12	0	20.61	18.46	0.070
				12	7	20.64	18.49	0.071
				12	13	20.62	18.47	0.070
				25	0	20.64	18.49	0.071
	707.5	23095		1	0	20.51	18.36	0.069
				1	12	20.52	18.37	0.069
				1	24	20.53	18.38	0.069
				12	0	20.52	18.37	0.069
				12	7	20.45	18.30	0.068
				12	13	20.48	18.33	0.068
				25	0	20.44	18.29	0.067
	713.5	23155		1	0	20.30	18.15	0.065
				1	12	20.29	18.14	0.065
				1	24	20.37	18.22	0.066
				12	0	20.30	18.15	0.065
				12	7	20.30	18.15	0.065
				12	13	20.30	18.15	0.065
				25	0	20.32	18.17	0.066

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	704	23060	10	1	0	22.64	20.49	0.112
				1	25	22.31	20.16	0.104
				1	49	22.29	20.14	0.103
				25	0	21.57	19.42	0.087
				25	12	21.50	19.35	0.086
				25	25	21.52	19.37	0.086
				50	0	21.57	19.42	0.087
	707.5	23095		1	0	22.66	20.51	0.112
				1	25	22.41	20.26	0.106
				1	49	22.42	20.27	0.106
				25	0	21.58	19.43	0.088
				25	12	21.51	19.36	0.086
				25	25	21.50	19.35	0.086
				50	0	21.53	19.38	0.087
	711	23130		1	0	22.70	20.55	0.114
				1	25	22.38	20.23	0.105
				1	49	22.38	20.23	0.105
				25	0	21.53	19.38	0.087
				25	12	21.46	19.31	0.085
				25	25	21.45	19.30	0.085
				50	0	21.49	19.34	0.086
16QAM	704	23060		1	0	21.65	19.50	0.089
				1	25	21.39	19.24	0.084
				1	49	21.38	19.23	0.084
				25	0	20.66	18.51	0.071
				25	12	20.54	18.39	0.069
				25	25	20.57	18.42	0.070
				50	0	20.54	18.39	0.069
	707.5	23095		1	0	22.16	20.01	0.100
				1	25	21.96	19.81	0.096
				1	49	21.96	19.81	0.096
				25	0	20.66	18.51	0.071
				25	12	20.49	18.34	0.068
				25	25	20.57	18.42	0.070
				50	0	20.54	18.39	0.069
	711	23130		1	0	21.74	19.59	0.091
				1	25	21.49	19.34	0.086
				1	49	21.42	19.27	0.085
				25	0	20.57	18.42	0.070
				25	12	20.43	18.28	0.067
				25	25	20.47	18.32	0.068
				50	0	20.48	18.33	0.068

Modulation	Carrier frequerncy (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	704	23060	10	1	0	20.53	18.38	0.069
				1	25	20.58	18.43	0.070
				1	49	20.53	18.38	0.069
				25	0	20.53	18.38	0.069
				25	12	20.60	18.45	0.070
				25	25	20.55	18.40	0.069
				50	0	20.57	18.42	0.070
	707.5	23095		1	0	20.53	18.38	0.069
				1	25	20.54	18.39	0.069
				1	49	20.54	18.39	0.069
				25	0	20.55	18.40	0.069
				25	12	20.55	18.40	0.069
				25	25	20.56	18.41	0.069
				50	0	20.49	18.34	0.068
	711	23130		1	0	20.52	18.37	0.069
				1	25	20.46	18.31	0.068
				1	49	20.42	18.27	0.067
				25	0	20.45	18.30	0.068
				25	12	20.48	18.33	0.068
				25	25	20.42	18.27	0.067
				50	0	20.54	18.39	0.069