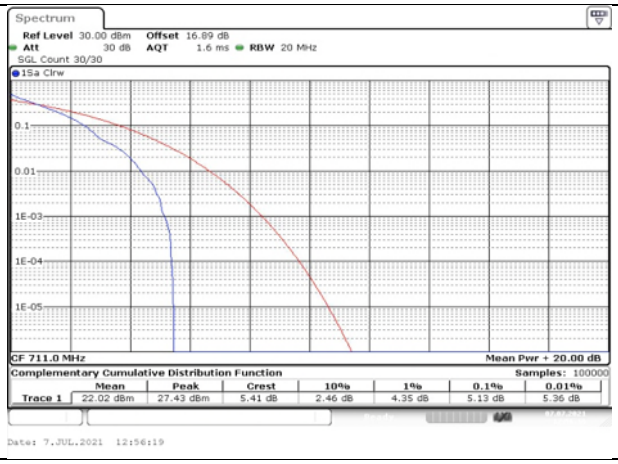

Fig.67

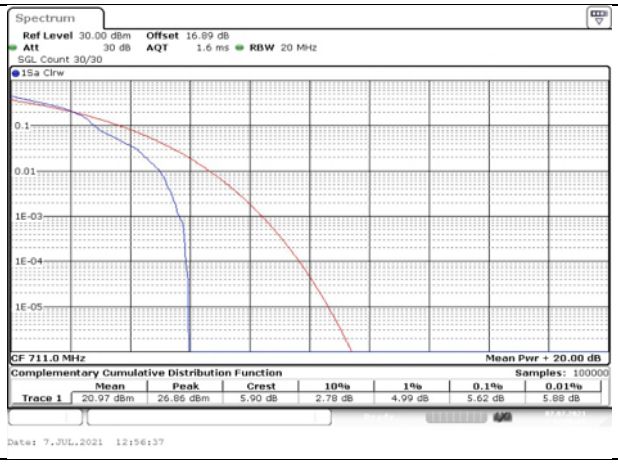

Fig.68

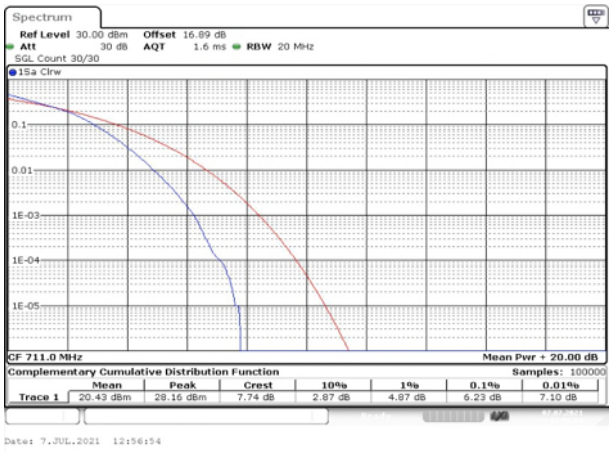

Fig.69

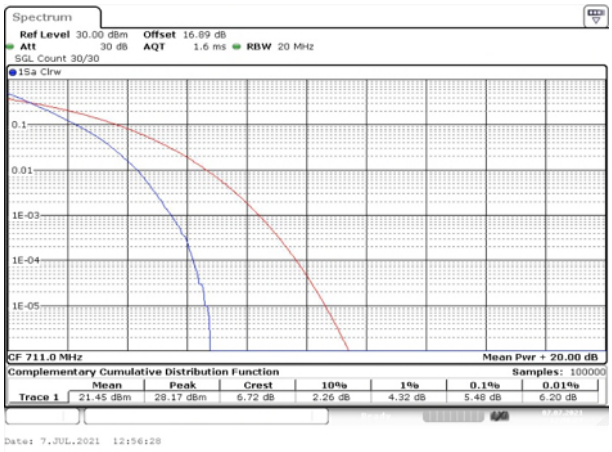

Fig.70

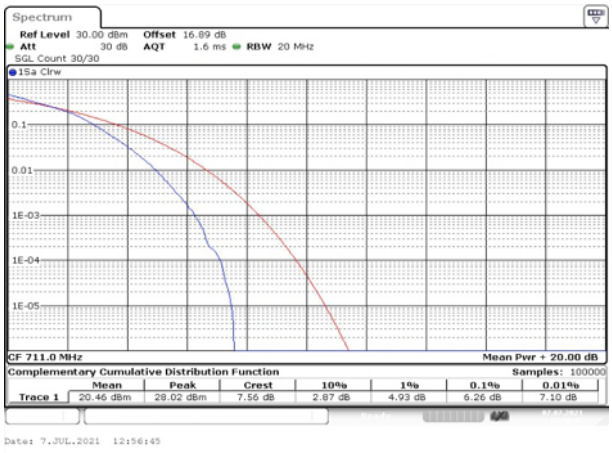

Fig.71

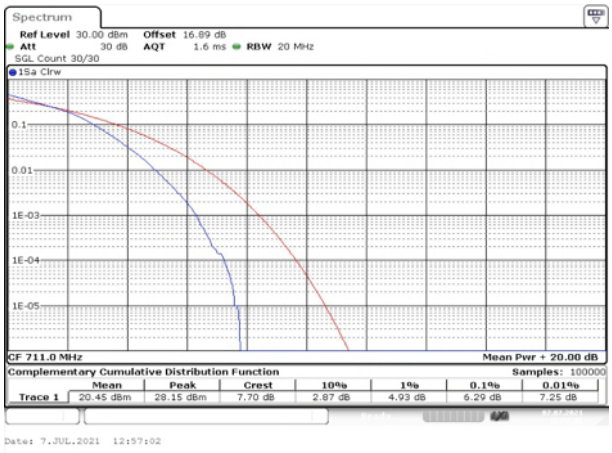

Fig.72

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	0	Fig.1
	707.5	23095		1	0	Fig.2
	711	23130		1	0	Fig.3

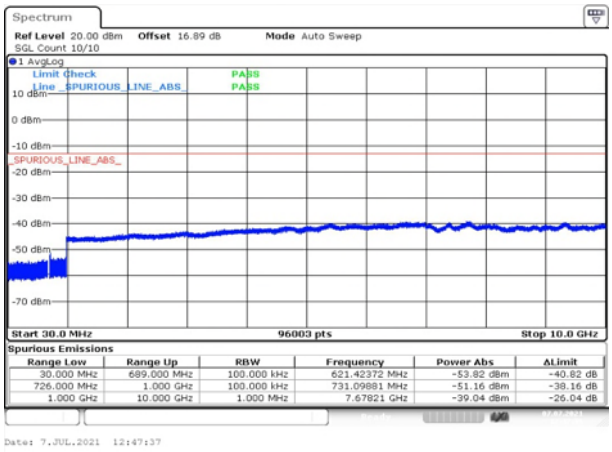

Fig.1

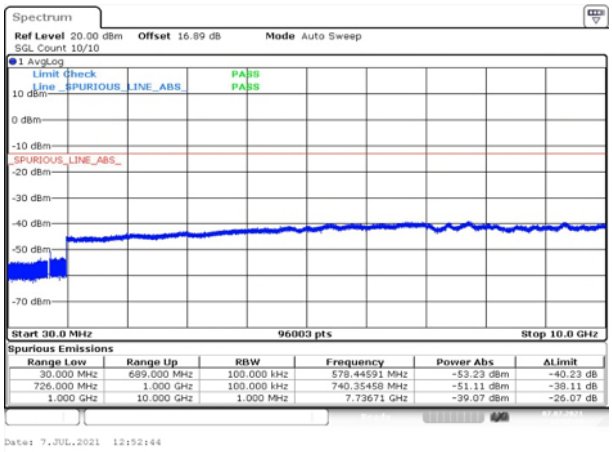

Fig.2

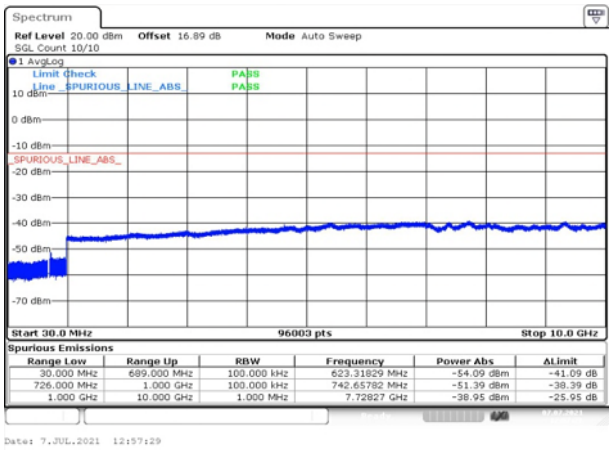

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
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

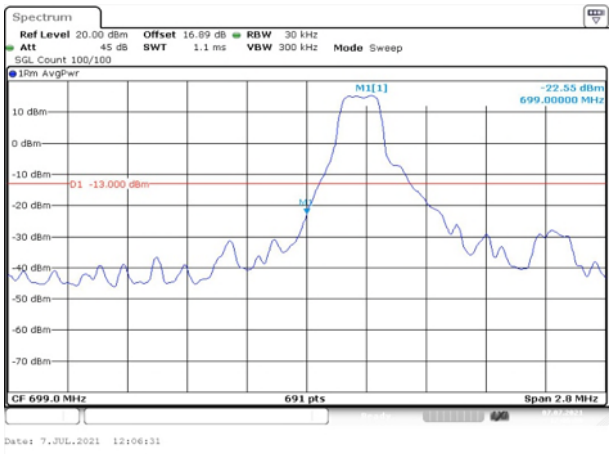

Fig.1

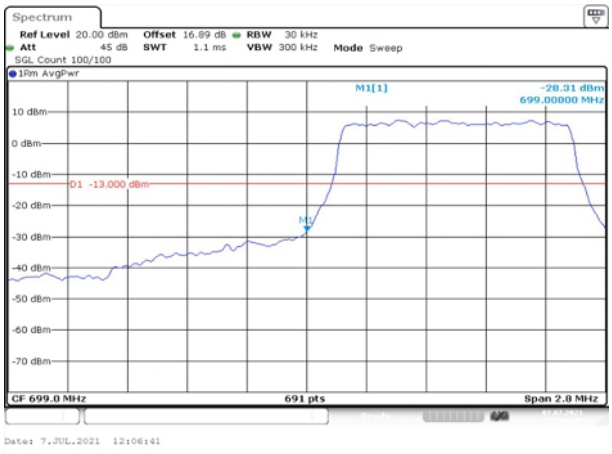

Fig.2

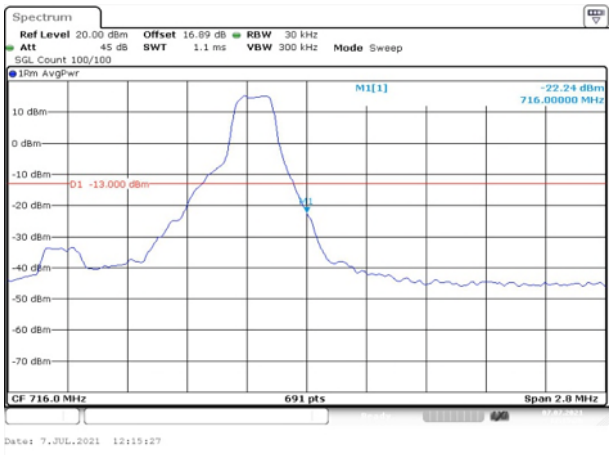

Fig.3

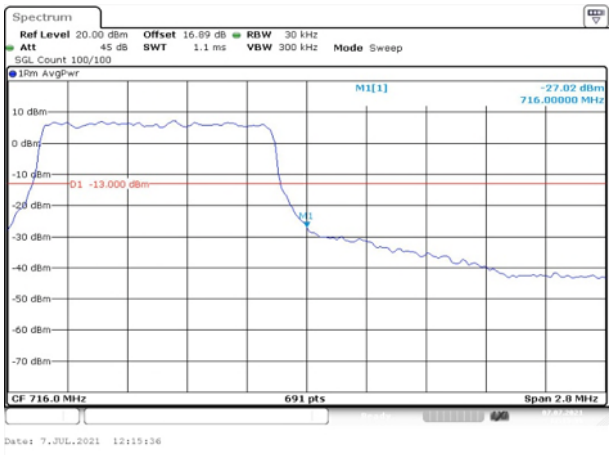

Fig.4

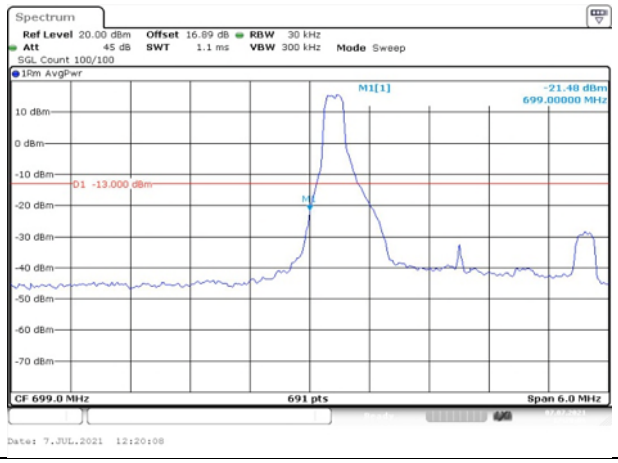

Fig.5

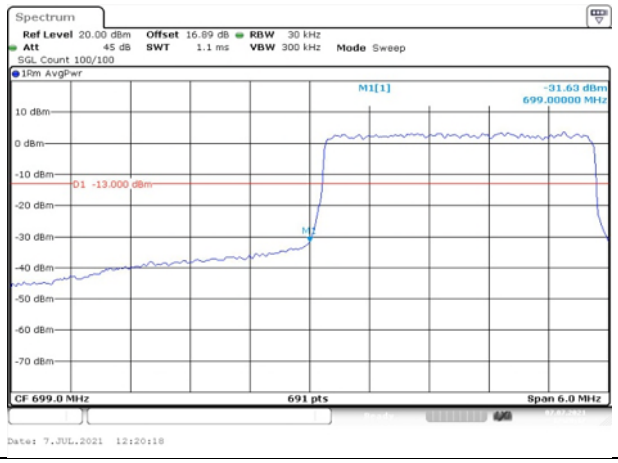

Fig.6

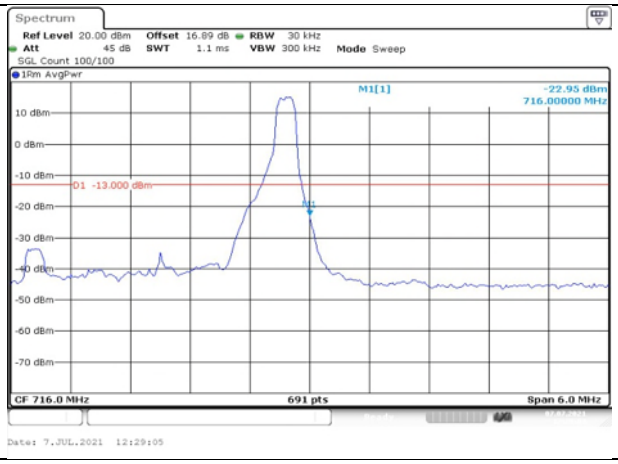

Fig.7

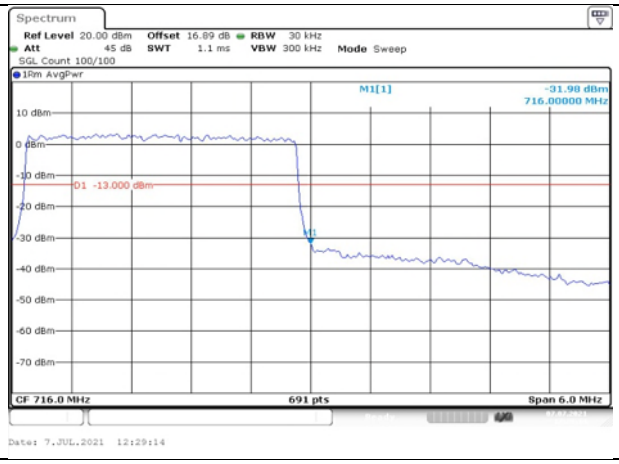

Fig.8

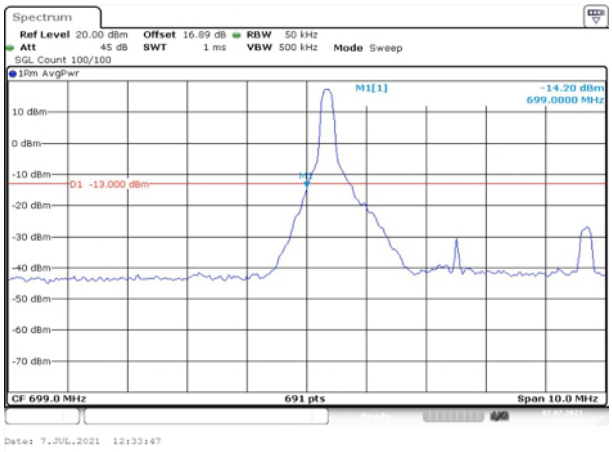

Fig.9

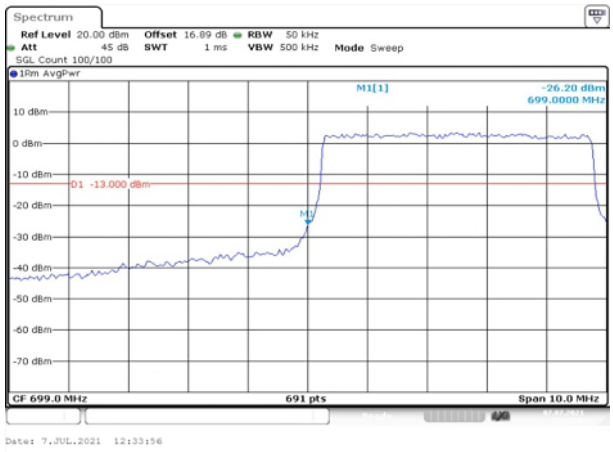

Fig.10

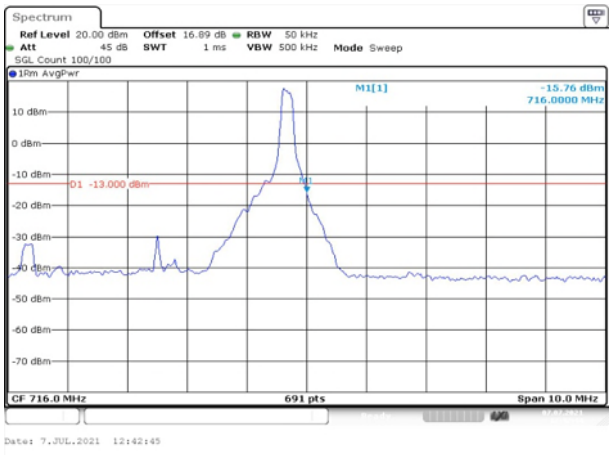

Fig.11

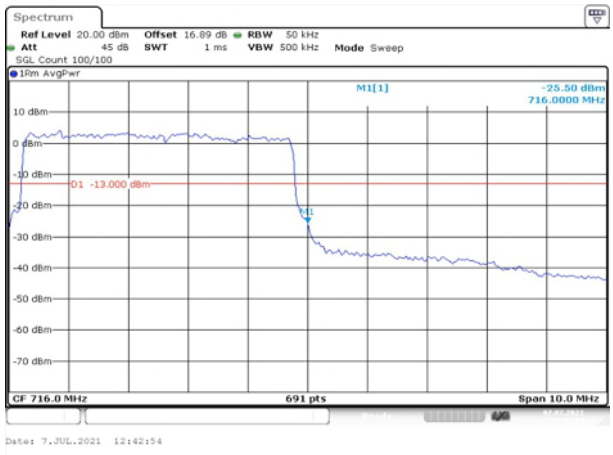

Fig.12

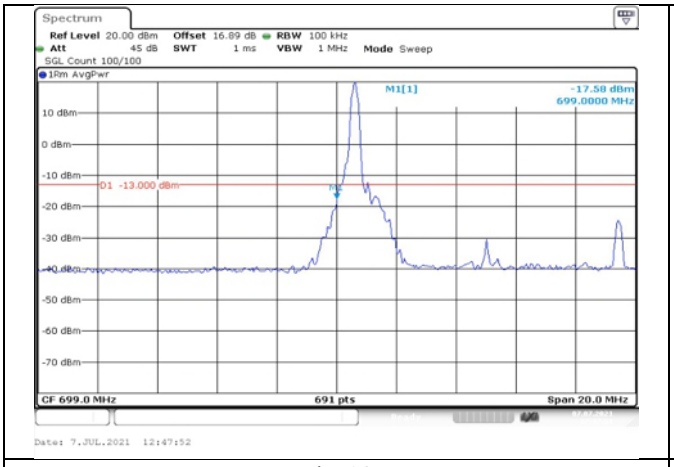

Fig.13

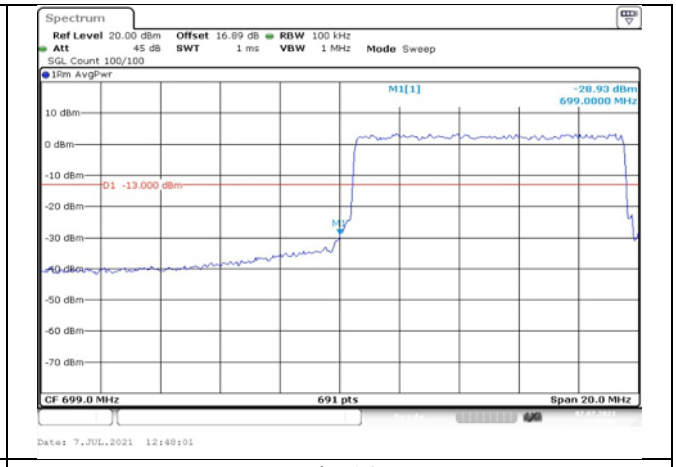

Fig.14

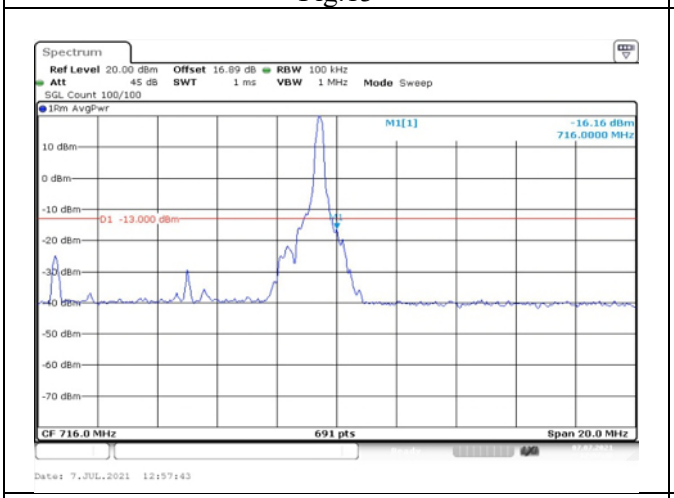

Fig.15

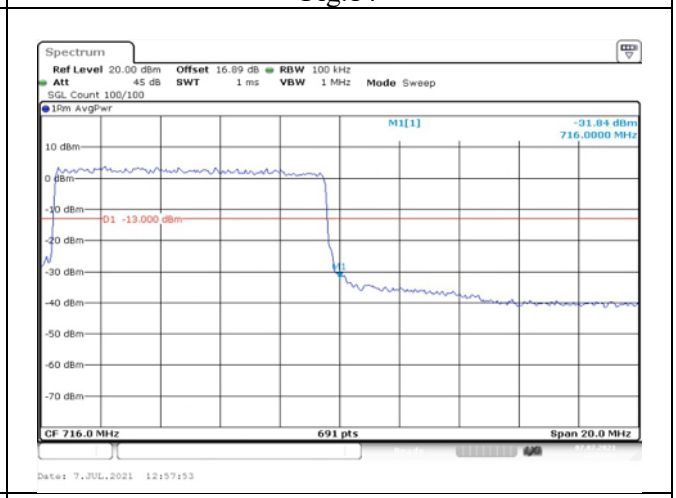

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band12 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.011	-0.012	-0.011	-0.003	---	---
+10	NV	-0.008	-0.003	-0.009	-0.009	---	---
+20	NV	-0.007	-0.003	-0.017	-0.018	---	---
+30	NV	-0.024	-0.014	-0.017	-0.011	---	---
+40	NV	-0.015	-0.009	-0.017	-0.010	---	---
+55	NV	-0.014	-0.020	-0.012	-0.021	---	---
+20	LV	-0.015	-0.013	-0.014	-0.008	---	---
+20	HV	-0.022	-0.005	-0.018	-0.009	---	---

Temperature(°C)	Voltage	Test Result (ppm) Band12 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.005	-0.008	-0.013	-0.007	---	---
+10	NV	0.001	-0.001	-0.007	-0.008	---	---
+20	NV	-0.012	-0.004	-0.001	-0.010	---	---
+30	NV	-0.013	-0.008	-0.003	0.000	---	---
+40	NV	-0.002	-0.007	-0.006	0.003	---	---
+55	NV	-0.025	-0.009	-0.009	-0.012	---	---
+20	LV	-0.004	-0.013	-0.008	-0.015	---	---
+20	HV	-0.007	-0.010	-0.003	-0.003	---	---

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	24.00	18.45	0.070
				1	3	23.90	18.35	0.068
				1	5	23.96	18.41	0.069
				3	0	24.18	18.63	0.073
				3	1	23.98	18.43	0.070
				3	3	24.07	18.52	0.071
				6	0	22.94	17.39	0.055
	707.5	23095		1	0	23.34	17.79	0.060
				1	3	23.38	17.83	0.061
				1	5	23.29	17.74	0.059
				3	0	23.34	17.79	0.060
				3	1	23.37	17.82	0.061
				3	3	23.30	17.75	0.060
				6	0	22.42	16.87	0.049
	715.3	23173		1	0	23.23	17.68	0.059
				1	3	23.22	17.67	0.058
				1	5	23.14	17.59	0.057
				3	0	23.29	17.74	0.059
				3	1	23.26	17.71	0.059
				3	3	23.31	17.76	0.060
				6	0	22.28	16.73	0.047
16QAM	699.7	23017		1	0	22.99	17.44	0.055
				1	3	22.46	16.91	0.049
				1	5	22.47	16.92	0.049
				3	0	22.64	17.09	0.051
				3	1	22.63	17.08	0.051
				3	3	22.60	17.05	0.051
				6	0	21.57	16.02	0.040
	707.5	23095		1	0	22.49	16.94	0.049
				1	3	22.48	16.93	0.049
				1	5	22.47	16.92	0.049
				3	0	22.41	16.86	0.049
				3	1	22.49	16.94	0.049
				3	3	22.27	16.72	0.047
				6	0	21.44	15.89	0.039
	715.3	23173		1	0	22.27	16.72	0.047
				1	3	22.30	16.75	0.047
				1	5	22.30	16.75	0.047
				3	0	22.44	16.89	0.049
				3	1	22.29	16.74	0.047
				3	3	22.37	16.82	0.048
				6	0	21.26	15.71	0.037

Modulation	Carrier frequency (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	21.55	16.00	0.040
				1	3	21.57	16.02	0.040
				1	5	21.50	15.95	0.039
				3	0	21.53	15.98	0.040
				3	1	21.48	15.93	0.039
				3	3	21.46	15.91	0.039
				6	0	21.50	15.95	0.039
	707.5	23095		1	0	21.49	15.94	0.039
				1	3	21.44	15.89	0.039
				1	5	21.42	15.87	0.039
				3	0	21.49	15.94	0.039
				3	1	21.54	15.99	0.040
				3	3	21.43	15.88	0.039
				6	0	21.54	15.99	0.040
	715.3	23173		1	0	21.23	15.68	0.037
				1	3	21.22	15.67	0.037
				1	5	21.16	15.61	0.036
				3	0	21.23	15.68	0.037
				3	1	21.24	15.69	0.037
				3	3	21.26	15.71	0.037
				6	0	21.23	15.68	0.037

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	23.46	17.91	0.062
				1	8	23.41	17.86	0.061
				1	14	23.40	17.85	0.061
				8	0	22.39	16.84	0.048
				8	4	22.39	16.84	0.048
				8	7	22.43	16.88	0.049
				15	0	22.42	16.87	0.049
	707.5	23095		1	0	23.44	17.89	0.062
				1	8	23.38	17.83	0.061
				1	14	23.39	17.84	0.061
				8	0	22.41	16.86	0.049
				8	4	22.31	16.76	0.047
				8	7	22.31	16.76	0.047
				15	0	22.31	16.76	0.047
	714.5	23165		1	0	23.30	17.75	0.060
				1	8	23.24	17.69	0.059
				1	14	23.18	17.63	0.058
				8	0	22.33	16.78	0.048
				8	4	22.21	16.66	0.046
				8	7	22.23	16.68	0.047
				15	0	22.21	16.66	0.046
16QAM	700.5	23025		1	0	23.09	17.54	0.057
				1	8	22.99	17.44	0.055
				1	14	23.01	17.46	0.056
				8	0	21.59	16.04	0.040
				8	4	21.67	16.12	0.041
				8	7	21.66	16.11	0.041
				15	0	21.57	16.02	0.040
	707.5	23095		1	0	22.62	17.07	0.051
				1	8	22.49	16.94	0.049
				1	14	22.42	16.87	0.049
				8	0	21.52	15.97	0.040
				8	4	21.41	15.86	0.039
				8	7	21.34	15.79	0.038
				15	0	21.41	15.86	0.039
	714.5	23165		1	0	22.35	16.80	0.048
				1	8	22.37	16.82	0.048
				1	14	22.33	16.78	0.048
				8	0	21.40	15.85	0.038
				8	4	21.36	15.81	0.038
				8	7	21.28	15.73	0.037
				15	0	21.34	15.79	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	700.5	23025	3	1	0	21.51	15.96	0.039
				1	8	21.59	16.04	0.040
				1	14	21.55	16.00	0.040
				8	0	21.46	15.91	0.039
				8	4	21.54	15.99	0.040
				8	7	21.49	15.94	0.039
				15	0	21.56	16.01	0.040
	707.5	23095		1	0	21.31	15.76	0.038
				1	8	21.32	15.77	0.038
				1	14	21.39	15.84	0.038
				8	0	21.35	15.80	0.038
				8	4	21.29	15.74	0.037
				8	7	21.33	15.78	0.038
				15	0	21.32	15.77	0.038
	714.5	23165		1	0	21.40	15.85	0.038
				1	8	21.33	15.78	0.038
				1	14	21.36	15.81	0.038
				8	0	21.40	15.85	0.038
				8	4	21.30	15.75	0.038
				8	7	21.38	15.83	0.038
				15	0	21.38	15.83	0.038

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	23.39	17.84	0.061
				1	12	23.30	17.75	0.060
				1	24	23.30	17.75	0.060
				12	0	22.34	16.79	0.048
				12	7	22.39	16.84	0.048
				12	13	22.43	16.88	0.049
				25	0	22.39	16.84	0.048
	707.5	23095		1	0	23.33	17.78	0.060
				1	12	23.19	17.64	0.058
				1	24	23.19	17.64	0.058
				12	0	22.33	16.78	0.048
				12	7	22.30	16.75	0.047
				12	13	22.31	16.76	0.047
				25	0	22.30	16.75	0.047
	713.5	23155		1	0	23.22	17.67	0.058
				1	12	23.18	17.63	0.058
				1	24	23.14	17.59	0.057
				12	0	22.39	16.84	0.048
				12	7	22.19	16.64	0.046
				12	13	22.13	16.58	0.045
				25	0	22.27	16.72	0.047
16QAM	701.5	23035		1	0	22.32	16.77	0.048
				1	12	22.25	16.70	0.047
				1	24	22.33	16.78	0.048
				12	0	21.37	15.82	0.038
				12	7	21.44	15.89	0.039
				12	13	21.47	15.92	0.039
				25	0	21.51	15.96	0.039
	707.5	23095		1	0	22.52	16.97	0.050
				1	12	22.46	16.91	0.049
				1	24	22.55	17.00	0.050
				12	0	21.43	15.88	0.039
				12	7	21.34	15.79	0.038
				12	13	21.38	15.83	0.038
				25	0	21.39	15.84	0.038
	713.5	23155		1	0	22.30	16.75	0.047
				1	12	22.22	16.67	0.046
				1	24	22.19	16.64	0.046
				12	0	21.29	15.74	0.037
				12	7	21.18	15.63	0.037
				12	13	21.15	15.60	0.036
				25	0	21.42	15.87	0.039

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	701.5	23035	5	1	0	21.53	15.98	0.040
				1	12	21.55	16.00	0.040
				1	24	21.48	15.93	0.039
				12	0	21.50	15.95	0.039
				12	7	21.48	15.93	0.039
				12	13	21.51	15.96	0.039
				25	0	21.47	15.92	0.039
	707.5	23095		1	0	21.37	15.82	0.038
				1	12	21.41	15.86	0.039
				1	24	21.37	15.82	0.038
				12	0	21.43	15.88	0.039
				12	7	21.40	15.85	0.038
				12	13	21.35	15.80	0.038
				25	0	21.34	15.79	0.038
	713.5	23155		1	0	21.34	15.79	0.038
				1	12	21.37	15.82	0.038
				1	24	21.31	15.76	0.038
				12	0	21.40	15.85	0.038
				12	7	21.35	15.80	0.038
				12	13	21.36	15.81	0.038
				25	0	21.34	15.79	0.038

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	23.42	17.87	0.061
				1	25	23.21	17.66	0.058
				1	49	23.28	17.73	0.059
				25	0	22.42	16.87	0.049
				25	12	22.50	16.95	0.050
				25	25	22.42	16.87	0.049
				50	0	22.44	16.89	0.049
	707.5	23095		1	0	23.45	17.90	0.062
				1	25	23.31	17.76	0.060
				1	49	23.25	17.70	0.059
				25	0	22.34	16.79	0.048
				25	12	22.27	16.72	0.047
				25	25	22.35	16.80	0.048
				50	0	22.31	16.76	0.047
	711	23130		1	0	23.39	17.84	0.061
				1	25	23.22	17.67	0.058
				1	49	23.29	17.74	0.059
				25	0	22.41	16.86	0.049
				25	12	22.11	16.56	0.045
				25	25	22.13	16.58	0.045
				50	0	22.32	16.77	0.048
16QAM	704	23060		1	0	23.02	17.47	0.056
				1	25	22.93	17.38	0.055
				1	49	22.89	17.34	0.054
				25	0	21.63	16.08	0.041
				25	12	21.57	16.02	0.040
				25	25	21.62	16.07	0.040
				50	0	21.49	15.94	0.039
	707.5	23095		1	0	22.60	17.05	0.051
				1	25	22.41	16.86	0.049
				1	49	22.37	16.82	0.048
				25	0	21.43	15.88	0.039
				25	12	21.43	15.88	0.039
				25	25	21.42	15.87	0.039
				50	0	21.41	15.86	0.039
	711	23130		1	0	22.49	16.94	0.049
				1	25	22.37	16.82	0.048
				1	49	22.33	16.78	0.048
				25	0	21.49	15.94	0.039
				25	12	21.29	15.74	0.037
				25	25	21.33	15.78	0.038
				50	0	21.37	15.82	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	704	23060	10	1	0	21.56	16.01	0.040
				1	25	21.51	15.96	0.039
				1	49	21.55	16.00	0.040
				25	0	21.49	15.94	0.039
				25	12	21.47	15.92	0.039
				25	25	21.52	15.97	0.040
				50	0	21.54	15.99	0.040
	707.5	23095		1	0	21.44	15.89	0.039
				1	25	21.40	15.85	0.038
				1	49	21.42	15.87	0.039
				25	0	21.46	15.91	0.039
				25	12	21.44	15.89	0.039
				25	25	21.37	15.82	0.038
				50	0	21.43	15.88	0.039
	711	23130		1	0	21.41	15.86	0.039
				1	25	21.31	15.76	0.038
				1	49	21.33	15.78	0.038
				25	0	21.37	15.82	0.038
				25	12	21.43	15.88	0.039
				25	25	21.31	15.76	0.038
				50	0	21.30	15.75	0.038