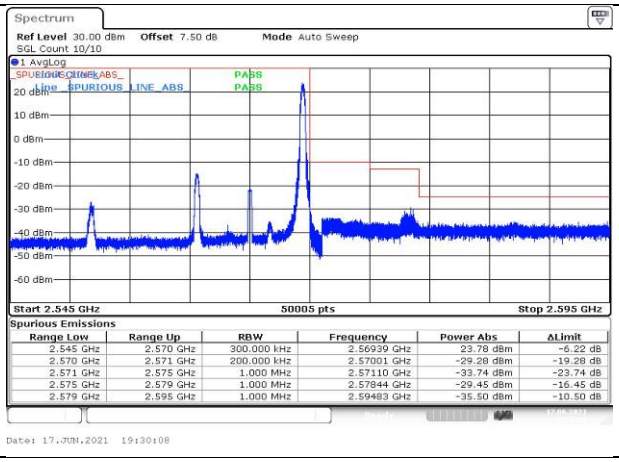

Fig.7

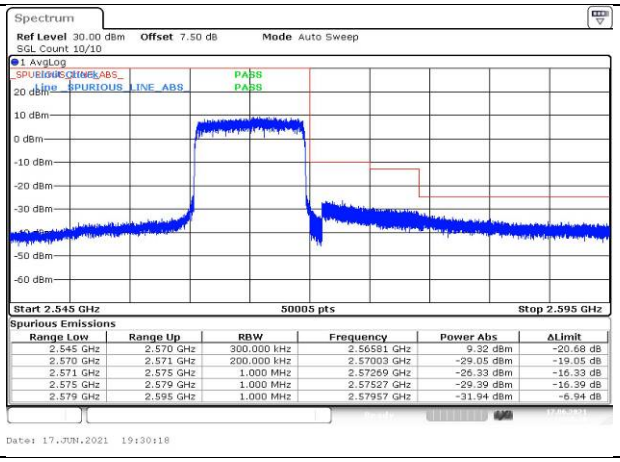

Fig.8

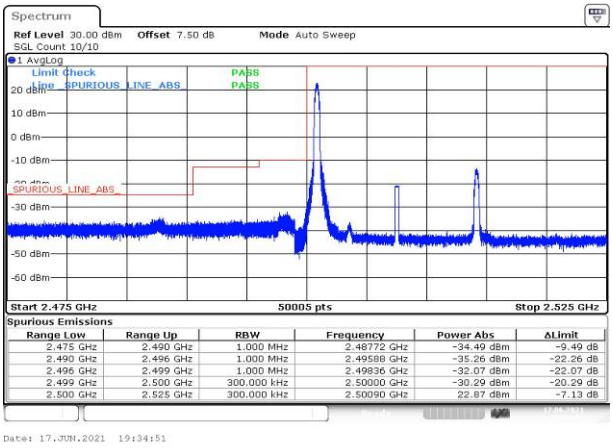

Fig.9

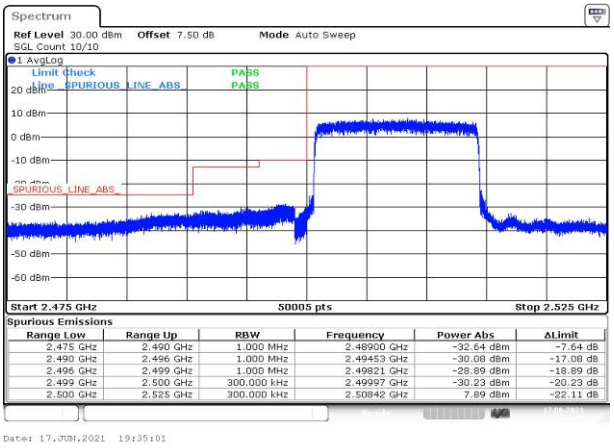

Fig.10

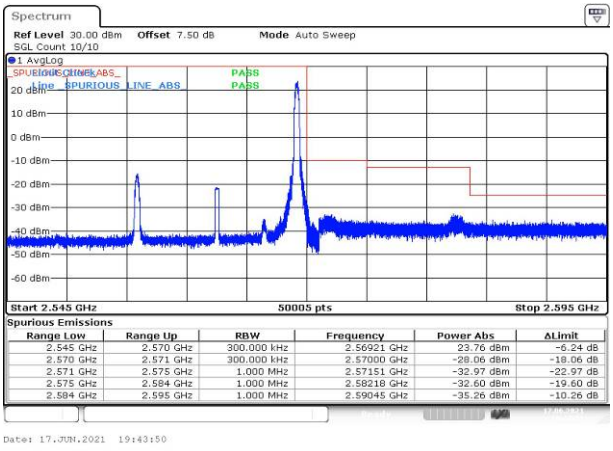

Fig.11

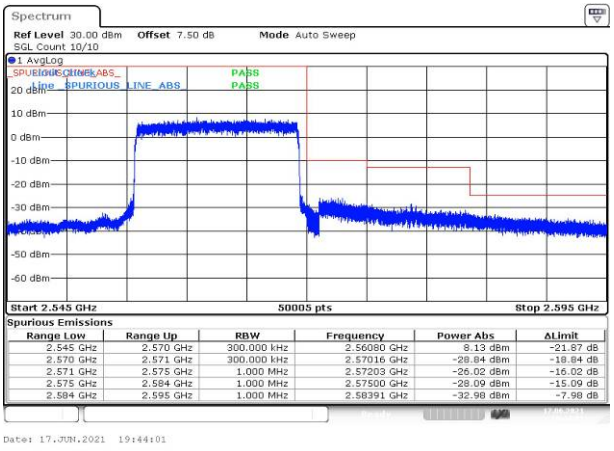

Fig.12

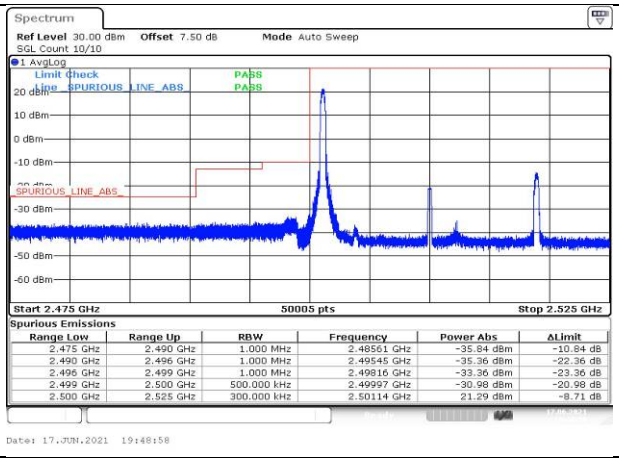

Fig.13

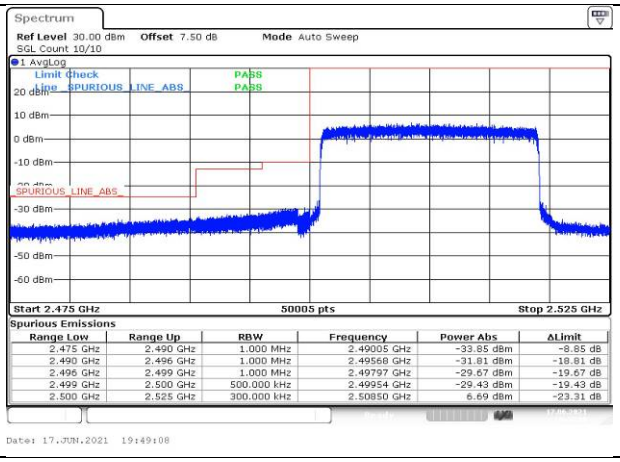

Fig.14

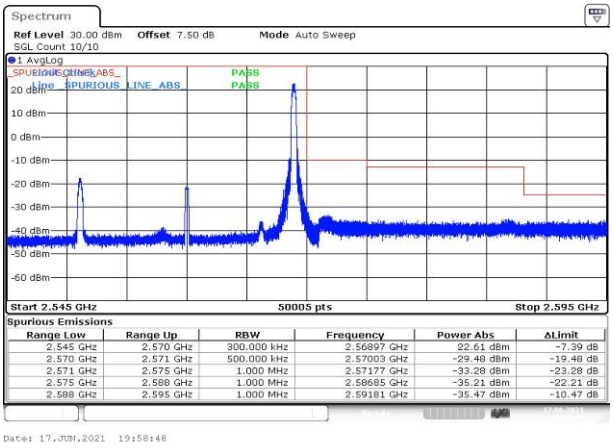

Fig.15

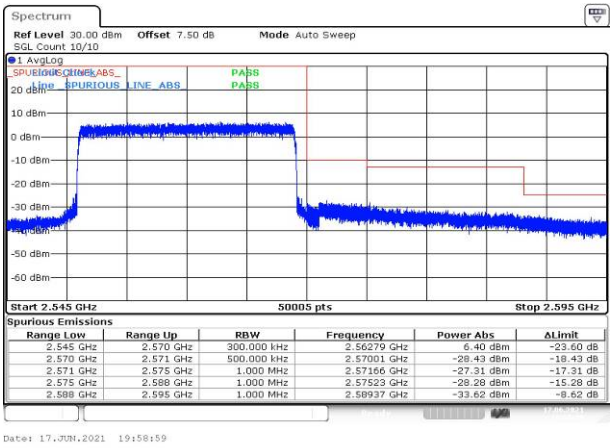

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band7 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	---	---	0.001	-0.001	0.002	0.001
0	NV	---	---	0.001	-0.001	-0.001	0.001
+10	NV	---	---	0.002	0.002	0.003	0.003
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	0.002	-0.001	0.002	0.001
+40	NV	---	---	0.002	-0.002	0.000	0.001
+50	NV	---	---	0.003	-0.002	0.003	0.001
+55	NV	---	---	0.005	0.005	0.004	0.003
+20	LV	---	---	0.001	-0.002	0.000	0.000
+20	HV	---	---	0.002	0.000	-0.001	0.001

Temperature(°C)	Voltage	Test Result (ppm) Band7 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	---	---	0.000	-0.001	0.001	0.001
0	NV	---	---	0.001	-0.002	0.001	0.001
+10	NV	---	---	0.001	0.000	0.001	0.001
+20	NV	---	---	0.001	-0.001	0.000	0.000
+30	NV	---	---	0.001	-0.002	0.001	0.001
+40	NV	---	---	0.002	-0.002	0.003	0.001
+50	NV	---	---	0.001	-0.001	0.002	0.002
+55	NV	---	---	0.002	-0.001	0.002	0.004
+20	LV	---	---	0.001	-0.002	0.002	-0.002
+20	HV	---	---	0.002	-0.001	-0.001	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	2502.5	20775	5	1	0	22.53	21.13	0.130
				1	12	22.62	21.22	0.132
				1	24	22.60	21.20	0.132
				12	0	22.02	20.62	0.115
				12	7	22.05	20.65	0.116
				12	13	22.05	20.65	0.116
				25	0	22.07	20.67	0.117
	2535	21100		1	0	22.80	21.40	0.138
				1	12	22.85	21.45	0.140
				1	24	22.84	21.44	0.139
				12	0	22.46	21.06	0.128
				12	7	22.38	20.98	0.125
				12	13	22.38	20.98	0.125
				25	0	22.47	21.07	0.128
	2567.5	21425		1	0	22.74	21.34	0.136
				1	12	23.07	21.67	0.147
				1	24	23.06	21.66	0.147
				12	0	22.35	20.95	0.124
				12	7	22.28	20.88	0.122
				12	13	22.28	20.88	0.122
				25	0	22.27	20.87	0.122
16QAM	2502.5	20775		1	0	21.61	20.21	0.105
				1	12	21.84	20.44	0.111
				1	24	21.85	20.45	0.111
				12	0	21.23	19.83	0.096
				12	7	21.27	19.87	0.097
				12	13	21.18	19.78	0.095
				25	0	21.29	19.89	0.097
	2535	21100		1	0	23.05	21.65	0.146
				1	12	23.08	21.68	0.147
				1	24	23.08	21.68	0.147
				12	0	21.57	20.17	0.104
				12	7	21.52	20.12	0.103
				12	13	21.52	20.12	0.103
				25	0	21.56	20.16	0.104
	2567.5	21425		1	0	21.92	20.52	0.113
				1	12	22.04	20.64	0.116
				1	24	22.04	20.64	0.116
				12	0	21.24	19.84	0.096
				12	7	21.40	20.00	0.100
				12	13	21.41	20.01	0.100
				25	0	21.45	20.05	0.101

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2502.5	20775	5	1	0	21.29	19.89	0.097
				1	12	21.29	19.89	0.097
				1	24	21.28	19.88	0.097
				12	0	21.28	19.88	0.097
				12	7	21.28	19.88	0.097
				12	13	21.28	19.88	0.097
				25	0	21.28	19.88	0.097
	2535	21100		1	0	21.55	20.15	0.104
				1	12	21.75	20.35	0.108
				1	24	21.75	20.35	0.108
				12	0	21.75	20.35	0.108
				12	7	21.75	20.35	0.108
				12	13	21.75	20.35	0.108
				25	0	21.75	20.35	0.108
	2567.5	21425		1	0	21.45	20.05	0.101
				1	12	21.45	20.05	0.101
				1	24	21.45	20.05	0.101
				12	0	21.45	20.05	0.101
				12	7	21.45	20.05	0.101
				12	13	21.45	20.05	0.101
				25	0	21.45	20.05	0.101

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2505	20800	10	1	0	22.46	21.06	0.128
				1	25	22.51	21.11	0.129
				1	49	22.50	21.10	0.129
				25	0	22.20	20.80	0.120
				25	12	22.23	20.83	0.121
				25	25	22.23	20.83	0.121
				50	0	22.22	20.82	0.121
	2535	21100		1	0	23.07	21.67	0.147
				1	25	23.35	21.95	0.157
				1	49	23.35	21.95	0.157
				25	0	22.50	21.10	0.129
				25	12	22.54	21.14	0.130
				25	25	22.54	21.14	0.130
				50	0	22.46	21.06	0.128
	2565	21400		1	0	22.49	21.09	0.129
				1	25	23.28	21.88	0.154
				1	49	23.28	21.88	0.154
				25	0	22.38	20.98	0.125
				25	12	22.38	20.98	0.125
				25	25	22.38	20.98	0.125
				50	0	22.34	20.94	0.124
16QAM	2505	20800		1	0	22.04	20.64	0.116
				1	25	22.14	20.74	0.119
				1	49	22.14	20.74	0.119
				25	0	21.42	20.02	0.100
				25	12	21.37	19.97	0.099
				25	25	21.37	19.97	0.099
				50	0	21.40	20.00	0.100
	2535	21100		1	0	22.68	21.28	0.134
				1	25	22.96	21.56	0.143
				1	49	22.96	21.56	0.143
				25	0	21.77	20.37	0.109
				25	12	21.79	20.39	0.109
				25	25	21.79	20.39	0.109
				50	0	21.73	20.33	0.108
	2565	21400		1	0	21.65	20.25	0.106
				1	25	22.46	21.06	0.128
				1	49	22.46	21.06	0.128
				25	0	21.62	20.22	0.105
				25	12	21.73	20.33	0.108
				25	25	21.73	20.33	0.108
				50	0	21.42	20.02	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2505	20800	10	1	0	21.41	20.01	0.100
				1	25	21.40	20.00	0.100
				1	49	21.40	20.00	0.100
				25	0	21.29	19.89	0.097
				25	12	21.29	19.89	0.097
				25	25	21.29	19.89	0.097
				50	0	21.29	19.89	0.097
	2535	21100		1	0	21.72	20.32	0.108
				1	25	21.72	20.32	0.108
				1	49	21.73	20.33	0.108
				25	0	21.72	20.32	0.108
				25	12	21.64	20.24	0.106
				25	25	21.64	20.24	0.106
				50	0	21.64	20.24	0.106
	2565	21400		1	0	21.42	20.02	0.100
				1	25	21.42	20.02	0.100
				1	49	21.42	20.02	0.100
				25	0	21.42	20.02	0.100
				25	12	21.42	20.02	0.100
				25	25	21.42	20.02	0.100
				50	0	21.42	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	2507.5	20825	15	1	0	22.33	20.93	0.124
				1	37	22.21	20.81	0.121
				1	74	22.20	20.80	0.120
				36	0	22.14	20.74	0.119
				36	29	22.04	20.64	0.116
				36	30	22.15	20.75	0.119
				75	0	22.09	20.69	0.117
	2535	21100		1	0	23.01	21.61	0.145
				1	37	23.31	21.91	0.155
				1	74	23.43	22.03	0.160
				36	0	22.52	21.12	0.129
				36	29	22.34	20.94	0.124
				36	30	22.45	21.05	0.127
				75	0	22.45	21.05	0.127
	2562.5	21375		1	0	22.28	20.88	0.122
				1	37	23.11	21.71	0.148
				1	74	23.11	21.71	0.148
				36	0	22.27	20.87	0.122
				36	29	22.36	20.96	0.125
				36	30	22.35	20.95	0.124
				75	0	22.25	20.85	0.122
16QAM	2507.5	20825		1	0	21.94	20.54	0.113
				1	37	21.84	20.44	0.111
				1	74	21.84	20.44	0.111
				36	0	21.34	19.94	0.099
				36	29	21.24	19.84	0.096
				36	30	21.24	19.84	0.096
				75	0	21.30	19.90	0.098
	2535	21100		1	0	22.36	20.96	0.125
				1	37	22.69	21.29	0.135
				1	74	22.69	21.29	0.135
				36	0	21.60	20.20	0.105
				36	29	21.53	20.13	0.103
				36	30	21.53	20.13	0.103
				75	0	21.55	20.15	0.104
	2562.5	21375		1	0	21.82	20.42	0.110
				1	37	22.59	21.19	0.132
				1	74	22.59	21.19	0.132
				36	0	21.33	19.93	0.098
				36	29	21.38	19.98	0.100
				36	30	21.39	19.99	0.100
				75	0	21.20	19.80	0.095

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2507.5	20825	15	1	0	21.30	19.90	0.098
				1	37	21.30	19.90	0.098
				1	74	21.30	19.90	0.098
				36	0	21.30	19.90	0.098
				36	29	21.29	19.89	0.097
				36	30	21.30	19.90	0.098
				75	0	21.29	19.89	0.097
	2535	21100		1	0	21.55	20.15	0.104
				1	37	21.55	20.15	0.104
				1	74	21.55	20.15	0.104
				36	0	21.54	20.14	0.103
				36	29	21.55	20.15	0.104
				36	30	21.55	20.15	0.104
				75	0	21.55	20.15	0.104
	2562.5	21375		1	0	21.20	19.80	0.095
				1	37	21.20	19.80	0.095
				1	74	21.20	19.80	0.095
				36	0	21.19	19.79	0.095
				36	29	21.19	19.79	0.095
				36	30	21.19	19.79	0.095
				75	0	21.19	19.79	0.095

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2510	20850	20	1	0	21.02	19.62	0.092
				1	49	21.56	20.16	0.104
				1	99	21.56	20.16	0.104
				50	0	22.16	20.76	0.119
				50	24	22.18	20.78	0.120
				50	50	22.08	20.68	0.117
				100	0	22.18	20.78	0.120
	2535	21100		1	0	21.68	20.28	0.107
				1	49	22.70	21.30	0.135
				1	99	22.69	21.29	0.135
				50	0	22.55	21.15	0.130
				50	24	22.39	20.99	0.126
				50	50	22.39	20.99	0.126
				100	0	22.46	21.06	0.128
	2560	21350		1	0	21.29	19.89	0.097
				1	49	22.37	20.97	0.125
				1	99	22.37	20.97	0.125
				50	0	22.45	21.05	0.127
				50	24	22.32	20.92	0.124
				50	50	22.32	20.92	0.124
				100	0	22.42	21.02	0.126
16QAM	2510	20850		1	0	20.36	18.96	0.079
				1	49	20.93	19.53	0.090
				1	99	20.93	19.53	0.090
				50	0	21.41	20.01	0.100
				50	24	21.34	19.94	0.099
				50	50	21.34	19.94	0.099
				100	0	21.45	20.05	0.101
	2535	21100		1	0	20.93	19.53	0.090
				1	49	21.95	20.55	0.114
				1	99	21.84	20.44	0.111
				50	0	21.69	20.29	0.107
				50	24	21.55	20.15	0.104
				50	50	21.55	20.15	0.104
				100	0	21.36	19.96	0.099
	2560	21350		1	0	20.94	19.54	0.090
				1	49	22.01	20.61	0.115
				1	99	22.01	20.61	0.115
				50	0	21.52	20.12	0.103
				50	24	21.36	19.96	0.099
				50	50	21.36	19.96	0.099
				100	0	21.40	20.00	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2510	20850	20	1	0	21.46	20.06	0.101
				1	49	21.45	20.05	0.101
				1	99	21.44	20.04	0.101
				50	0	21.45	20.05	0.101
				50	24	21.44	20.04	0.101
				50	50	21.45	20.05	0.101
				100	0	21.46	20.06	0.101
	2535	21100		1	0	21.36	19.96	0.099
				1	49	21.36	19.96	0.099
				1	99	21.36	19.96	0.099
				50	0	21.36	19.96	0.099
				50	24	21.36	19.96	0.099
				50	50	21.36	19.96	0.099
				100	0	21.36	19.96	0.099
	2560	21350		1	0	21.41	20.01	0.100
				1	49	21.41	20.01	0.100
				1	99	21.41	20.01	0.100
				50	0	21.41	20.01	0.100
				50	24	21.40	20.00	0.100
				50	50	21.40	20.00	0.100
				100	0	21.40	20.00	0.100