

Fig.13

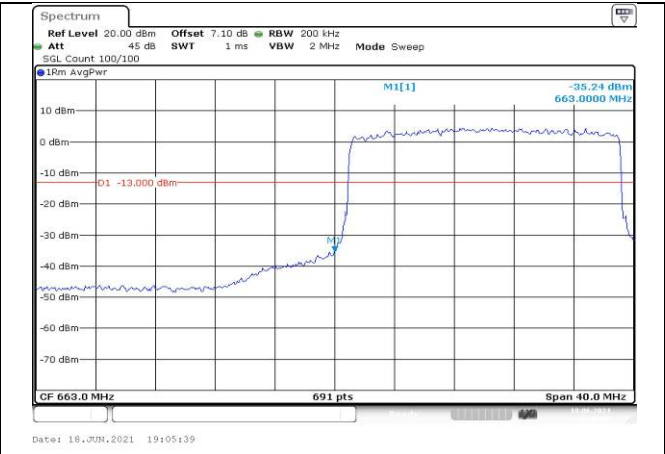


Fig.14

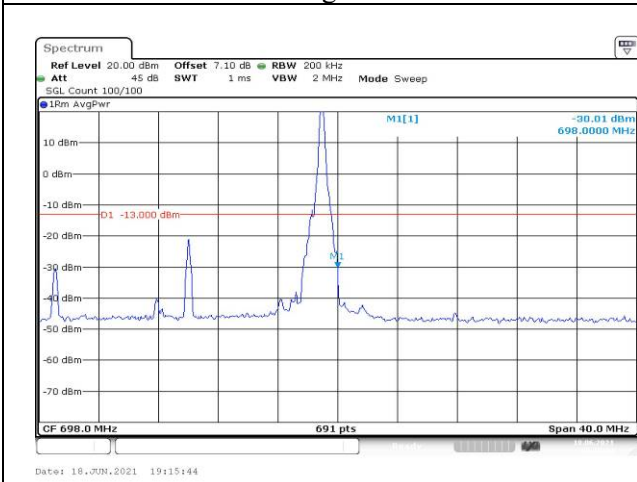


Fig.15



Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band71 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	---	---	0.004	-0.003	0.001	-0.003
0	NV	---	---	0.004	-0.002	-0.002	0.002
+10	NV	---	---	0.001	-0.003	0.004	0.005
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	0.005	-0.004	-0.003	-0.001
+40	NV	---	---	0.005	-0.002	-0.001	0.001
+50	NV	---	---	0.002	-0.005	-0.001	0.000
+55	NV	---	---	0.002	-0.003	-0.002	-0.001
+20	LV	---	---	0.003	-0.002	-0.001	-0.003
+20	HV	---	---	0.003	-0.003	-0.003	-0.002

Temperature(°C)	Voltage	Test Result (ppm) Band71 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	---	---	0.002	-0.002	-0.002	-0.002
0	NV	---	---	-0.002	-0.002	-0.001	-0.001
+10	NV	---	---	0.000	-0.002	-0.001	0.001
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	0.003	-0.003	-0.001	-0.001
+40	NV	---	---	0.003	-0.004	0.004	-0.001
+50	NV	---	---	0.004	-0.003	0.001	0.001
+55	NV	---	---	0.002	-0.003	0.005	0.006
+20	LV	---	---	0.002	-0.001	0.002	0.000
+20	HV	---	---	0.002	-0.001	-0.001	-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	665.5	133147	5	1	0	22.87	15.92	0.039		
				1	12	23.97	17.02	0.050		
				1	24	23.95	17.00	0.050		
				12	0	23.24	16.29	0.043		
				12	7	23.11	16.16	0.041		
				12	13	23.10	16.15	0.041		
	680.5	133297		25	0	23.22	16.27	0.042		
				1	0	24.02	17.07	0.051		
				1	12	24.24	17.29	0.054		
				1	24	24.29	17.34	0.054		
				12	0	23.32	16.37	0.043		
				12	7	23.33	16.38	0.043		
				12	13	23.32	16.37	0.043		
				25	0	23.36	16.41	0.044		
				695.5	133447	1	0	23.88	16.93	0.049
						1	12	23.97	17.02	0.050
						1	24	24.03	17.08	0.051
						12	0	23.33	16.38	0.043
	12	7				23.32	16.37	0.043		
	12	13				23.31	16.36	0.043		
	16QAM	665.5		133147	25	0	23.33	16.38	0.043	
					1	0	21.85	14.90	0.031	
					1	12	22.81	15.86	0.039	
					1	24	22.81	15.86	0.039	
12			0		22.04	15.09	0.032			
12			7		22.10	15.15	0.033			
680.5		133297	12	13	22.09	15.14	0.033			
			25	0	22.02	15.07	0.032			
			1	0	22.95	16.00	0.040			
			1	12	22.97	16.02	0.040			
			1	24	22.99	16.04	0.040			
			12	0	22.32	15.37	0.034			
			12	7	22.25	15.30	0.034			
			12	13	22.25	15.30	0.034			
			25	0	22.28	15.33	0.034			
			695.5	133447	1	0	23.24	16.29	0.043	
					1	12	23.45	16.50	0.045	
					1	24	23.45	16.50	0.045	
12		0			22.27	15.32	0.034			
12		7			22.26	15.31	0.034			
12		13			22.27	15.32	0.034			
25		0	22.25	15.30	0.034					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	665.5	133147	5	1	0	22.02	15.07	0.032
				1	12	22.01	15.06	0.032
				1	24	22.01	15.06	0.032
				12	0	22.02	15.07	0.032
				12	7	22.01	15.06	0.032
				12	13	22.10	15.15	0.033
				25	0	22.10	15.15	0.033
	680.5	133297		1	0	22.27	15.32	0.034
				1	12	22.35	15.40	0.035
				1	24	22.41	15.46	0.035
				12	0	22.44	15.49	0.035
				12	7	22.34	15.39	0.035
				12	13	22.34	15.39	0.035
				25	0	22.26	15.31	0.034
	695.5	133447		1	0	22.25	15.30	0.034
				1	12	22.25	15.30	0.034
				1	24	22.25	15.30	0.034
				12	0	22.25	15.30	0.034
				12	7	22.26	15.31	0.034
				12	13	22.25	15.30	0.034
				25	0	22.25	15.30	0.034

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	668	133172	10	1	0	22.72	15.77	0.038
				1	25	24.22	17.27	0.053
				1	49	24.32	17.37	0.055
				25	0	23.15	16.20	0.042
				25	12	23.27	16.32	0.043
				25	25	23.27	16.32	0.043
				50	0	23.18	16.23	0.042
	680.5	133297		1	0	24.06	17.11	0.051
				1	25	24.50	17.55	0.057
				1	49	24.48	17.53	0.057
				25	0	23.29	16.34	0.043
				25	12	23.44	16.49	0.045
				25	25	23.44	16.49	0.045
				50	0	23.36	16.41	0.044
	693	133422		1	0	24.19	17.24	0.053
				1	25	24.31	17.36	0.054
				1	49	24.39	17.44	0.055
				25	0	23.27	16.32	0.043
				25	12	23.36	16.41	0.044
				25	25	23.36	16.41	0.044
				50	0	23.39	16.44	0.044
16QAM	668	133172	1	0	21.84	14.89	0.031	
			1	25	23.49	16.54	0.045	
			1	49	23.49	16.54	0.045	
			25	0	22.05	15.10	0.032	
			25	12	22.36	15.41	0.035	
			25	25	22.36	15.41	0.035	
			50	0	21.92	14.97	0.031	
	680.5	133297	1	0	23.25	16.30	0.043	
			1	25	23.29	16.34	0.043	
			1	49	23.28	16.33	0.043	
			25	0	22.38	15.43	0.035	
			25	12	22.37	15.42	0.035	
			25	25	22.49	15.54	0.036	
			50	0	22.32	15.37	0.034	
	693	133422	1	0	23.15	16.20	0.042	
			1	25	23.65	16.70	0.047	
			1	49	23.65	16.70	0.047	
			25	0	22.35	15.40	0.035	
			25	12	22.53	15.58	0.036	
			25	25	22.53	15.58	0.036	
			50	0	22.18	15.23	0.033	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	668	133172	10	1	0	21.92	14.97	0.031
				1	25	21.92	14.97	0.031
				1	49	21.92	14.97	0.031
				25	0	21.92	14.97	0.031
				25	12	22.11	15.16	0.033
				25	25	22.11	15.16	0.033
				50	0	22.02	15.07	0.032
	680.5	133297		1	0	22.31	15.36	0.034
				1	25	22.32	15.37	0.034
				1	49	22.31	15.36	0.034
				25	0	22.31	15.36	0.034
				25	12	22.31	15.36	0.034
				25	25	22.31	15.36	0.034
				50	0	22.31	15.36	0.034
	693	133422		1	0	22.18	15.23	0.033
				1	25	22.18	15.23	0.033
				1	49	22.18	15.23	0.033
				25	0	22.18	15.23	0.033
				25	12	22.18	15.23	0.033
				25	25	22.18	15.23	0.033
				50	0	22.18	15.23	0.033

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	670.5	133197	15	1	0	22.57	15.62	0.036
				1	37	24.03	17.08	0.051
				1	74	24.00	17.05	0.051
				36	0	23.12	16.17	0.041
				36	29	23.21	16.26	0.042
				36	30	23.21	16.26	0.042
				75	0	23.18	16.23	0.042
	680.5	133297		1	0	23.99	17.04	0.051
				1	37	24.05	17.10	0.051
				1	74	24.03	17.08	0.051
				36	0	23.30	16.35	0.043
				36	29	23.38	16.43	0.044
				36	30	23.38	16.43	0.044
				75	0	23.37	16.42	0.044
	690.5	133397		1	0	24.22	17.27	0.053
				1	37	24.37	17.42	0.055
				1	74	24.35	17.40	0.055
				36	0	23.36	16.41	0.044
				36	29	23.43	16.48	0.044
				36	30	23.43	16.48	0.044
				75	0	23.36	16.41	0.044
16QAM	670.5	133197	1	0	22.08	15.13	0.033	
			1	37	23.57	16.62	0.046	
			1	74	23.57	16.62	0.046	
			36	0	21.92	14.97	0.031	
			36	29	22.11	15.16	0.033	
			36	30	22.11	15.16	0.033	
			75	0	22.26	15.31	0.034	
	680.5	133297	1	0	23.47	16.52	0.045	
			1	37	23.34	16.39	0.044	
			1	74	23.33	16.38	0.043	
			36	0	22.30	15.35	0.034	
			36	29	22.11	15.16	0.033	
			36	30	22.21	15.26	0.034	
			75	0	22.38	15.43	0.035	
	690.5	133397	1	0	23.44	16.49	0.045	
			1	37	23.44	16.49	0.045	
			1	74	23.44	16.49	0.045	
			36	0	22.15	15.20	0.033	
			36	29	22.41	15.46	0.035	
			36	30	22.41	15.46	0.035	
			75	0	22.24	15.29	0.034	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	670.5	133197	15	1	0	22.26	15.31	0.034
				1	37	22.26	15.31	0.034
				1	74	22.26	15.31	0.034
				36	0	22.26	15.31	0.034
				36	29	22.26	15.31	0.034
				36	30	22.26	15.31	0.034
				75	0	22.26	15.31	0.034
	680.5	133297		1	0	22.38	15.43	0.035
				1	37	22.28	15.33	0.034
				1	74	22.28	15.33	0.034
				36	0	22.28	15.33	0.034
				36	29	22.28	15.33	0.034
				36	30	22.28	15.33	0.034
				75	0	22.28	15.33	0.034
	690.5	133397		1	0	22.25	15.30	0.034
				1	37	22.25	15.30	0.034
				1	74	22.25	15.30	0.034
				36	0	22.25	15.30	0.034
				36	29	22.24	15.29	0.034
				36	30	22.24	15.29	0.034
				75	0	22.25	15.30	0.034

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	673	133222	20	1	0	22.29	15.34	0.034
				1	49	23.70	16.75	0.047
				1	99	23.68	16.73	0.047
				50	0	23.08	16.13	0.041
				50	24	23.26	16.31	0.043
				50	50	23.26	16.31	0.043
				100	0	23.26	16.31	0.043
	680.5	133297		1	0	23.72	16.77	0.048
				1	49	24.06	17.11	0.051
				1	99	24.04	17.09	0.051
				50	0	23.34	16.39	0.044
				50	24	23.38	16.43	0.044
				50	50	23.37	16.42	0.044
				100	0	23.34	16.39	0.044
	688	133372		1	0	23.61	16.66	0.046
				1	49	24.16	17.21	0.053
				1	99	24.14	17.19	0.052
				50	0	23.37	16.42	0.044
				50	24	23.42	16.47	0.044
				50	50	23.42	16.47	0.044
				100	0	23.32	16.37	0.043
16QAM	673	133222	1	0	21.90	14.95	0.031	
			1	49	23.36	16.41	0.044	
			1	99	23.36	16.41	0.044	
			50	0	22.05	15.10	0.032	
			50	24	22.09	15.14	0.033	
			50	50	22.09	15.14	0.033	
			100	0	22.09	15.14	0.033	
	680.5	133297	1	0	23.31	16.36	0.043	
			1	49	24.12	17.17	0.052	
			1	99	24.07	17.12	0.052	
			50	0	22.22	15.27	0.034	
			50	24	22.29	15.34	0.034	
			50	50	22.29	15.34	0.034	
			100	0	22.27	15.32	0.034	
	688	133372	1	0	23.21	16.26	0.042	
			1	49	23.80	16.85	0.048	
			1	99	23.80	16.85	0.048	
			50	0	22.16	15.21	0.033	
			50	24	22.21	15.26	0.034	
			50	50	22.21	15.26	0.034	
			100	0	22.25	15.30	0.034	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	673	133222	20	1	0	22.09	15.14	0.033
				1	49	22.09	15.14	0.033
				1	99	22.09	15.14	0.033
				50	0	22.28	15.33	0.034
				50	24	22.28	15.33	0.034
				50	50	22.28	15.33	0.034
				100	0	22.28	15.33	0.034
	680.5	133297		1	0	22.27	15.32	0.034
				1	49	22.27	15.32	0.034
				1	99	22.27	15.32	0.034
				50	0	22.27	15.32	0.034
				50	24	22.27	15.32	0.034
				50	50	22.27	15.32	0.034
				100	0	22.27	15.32	0.034
	688	133372		1	0	22.33	15.38	0.035
				1	49	22.25	15.30	0.034
				1	99	22.25	15.30	0.034
				50	0	22.25	15.30	0.034
				50	24	22.24	15.29	0.034
				50	50	22.24	15.29	0.034
				100	0	22.24	15.29	0.034