APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 71

1 RF Power Output

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
5	1	24	695.5	133447	23.51	22.62	22.59
			680.5	133297	23.67	22.77	22.76
			665.5	133147	23.78	22.48	22.45
	1	12	695.5	133447	23.65	23.40	23.35
			680.5	133297	23.92	23.40	23.42
			665.5	133147	23.42	22.58	22.55
	1	0	695.5	133447	23.67	23.32	23.30
			680.5	133297	23.55	22.85	22.87
			665.5	133147	23.57	22.46	22.48
	12	13	695.5	133447	22.66	21.38	21.38
			680.5	133297	22.63	21.53	21.52
			665.5	133147	22.65	21.58	21.57
	12	6	695.5	133447	22.72	21.36	21.35
			680.5	133297	22.55	21.57	21.60
			665.5	133147	22.73	21.57	21.57
	12	0	695.5	133447	22.64	21.44	21.43
			680.5	133297	22.73	21.59	21.57
			665.5	133147	22.48	21.26	21.26
	25	0	695.5	133447	22.66	21.56	21.54
			680.5	133297	22.63	21.46	21.46
			665.5	133147	22.51	21.50	21.53

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
10	1	49	693	133422	23.49	22.60	22.58
			680.5	133297	23.64	22.77	22.76
			668	133172	23.76	22.44	22.43
	1	24	693	133422	23.62	23.35	23.40
			680.5	133297	23.90	23.41	23.43
			668	133172	23.42	22.55	22.52
	1	0	693	133422	23.65	23.34	23.31
			680.5	133297	23.56	22.86	22.88
			668	133172	23.60	22.47	22.46
	25	25	693	133422	22.68	21.36	21.39
			680.5	133297	22.63	21.50	21.53
			668	133172	22.65	21.56	21.57
	25	12	693	133422	22.72	21.35	21.34
			680.5	133297	22.55	21.55	21.57
			668	133172	22.70	21.60	21.61
	25	0	693	133422	22.62	21.41	21.43
			680.5	133297	22.71	21.60	21.58
			668	133172	22.45	21.27	21.28
	50	0	693	133422	22.62	21.57	21.55
			680.5	133297	22.64	21.51	21.48
			668	133172	22.52	21.51	21.55

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
15	1	74	690.5	133397	23.50	22.60	22.63
			680.5	133297	23.69	22.79	22.77
			670.5	133197	23.76	22.48	22.46
	1	37	690.5	133397	23.63	23.35	23.36
			680.5	133297	23.89	23.43	23.42
			670.5	133197	23.43	22.55	22.56
	1	0	690.5	133397	23.64	23.31	23.30
			680.5	133297	23.53	22.90	22.86
			670.5	133197	23.60	22.43	22.46
	36	38	690.5	133397	22.66	21.34	21.38
			680.5	133297	22.63	21.54	21.54
			670.5	133197	22.62	21.61	21.61
	36	19	690.5	133397	22.75	21.37	21.36
			680.5	133297	22.57	21.57	21.57
			670.5	133197	22.71	21.60	21.60
	36	0	690.5	133397	22.64	21.39	21.43
			680.5	133297	22.74	21.58	21.60
			670.5	133197	22.47	21.30	21.27
	75	0	690.5	133397	22.65	21.56	21.56
			680.5	133297	22.65	21.50	21.48
			670.5	133197	22.52	21.49	21.49

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
20	1	99	688	133372	23.52	22.60	22.62
			683	133322	23.66	22.78	22.75
			673	133222	23.78	22.46	22.45
	1	50	688	133372	23.63	23.38	23.36
			683	133322	23.92	23.43	23.41
			673	133222	23.45	22.55	22.52
	1	0	688	133372	23.66	23.32	23.32
			683	133322	23.55	22.88	22.85
			673	133222	23.58	22.46	22.49
	50	50	688	133372	22.68	21.36	21.34
			683	133322	22.62	21.52	21.53
			673	133222	22.64	21.59	21.59
	50	25	688	133372	22.74	21.35	21.37
			683	133322	22.57	21.57	21.59
			673	133222	22.71	21.58	21.57
	50	0	688	133372	22.62	21.42	21.40
			683	133322	22.73	21.59	21.60
			673	133222	22.47	21.28	21.25
	100	0	688	133372	22.65	21.57	21.55
			683	133322	22.63	21.49	21.50
			673	133222	22.51	21.52	21.50

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
71	665.5	133147	5	25	0	4.4903	Fig.1	4.4612	Fig.2	4.4652	Fig.3
	680.5	133297		25	0	4.4627	Fig.4	4.4919	Fig.5	4.4713	Fig.6
	695.5	133447		25	0	4.4641	Fig.7	4.4617	Fig.8	4.4587	Fig.9
	668	133172	10	50	0	8.9380	Fig.10	8.9259	Fig.11	8.9596	Fig.12
	680.5	133297		50	0	8.9409	Fig.13	8.9607	Fig.14	8.9616	Fig.15
	693	133422		50	0	8.9373	Fig.16	8.9587	Fig.17	8.9515	Fig.18
	670.5	133197	15	75	0	13.364	Fig.19	13.420	Fig.20	13.339	Fig.21
	680.5	133297		75	0	13.427	Fig.22	13.347	Fig.23	13.390	Fig.24
	690.5	133397		75	0	13.375	Fig.25	13.400	Fig.26	13.423	Fig.27
	673	133222	20	100	0	17.817	Fig.28	17.803	Fig.29	17.815	Fig.30
	683	133322		100	0	17.835	Fig.31	17.807	Fig.32	17.823	Fig.33
	688	133372		100	0	17.777	Fig.34	17.839	Fig.35	17.841	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
71	665.5	133147	5	25	0	4.926	Fig.1	4.883	Fig.2	4.907	Fig.3
	680.5	133297		25	0	4.930	Fig.4	4.891	Fig.5	4.891	Fig.6
	695.5	133447		25	0	4.874	Fig.7	4.809	Fig.8	4.863	Fig.9
	668	133172	10	50	0	9.724	Fig.10	9.692	Fig.11	9.650	Fig.12
	680.5	133297		50	0	9.619	Fig.13	9.648	Fig.14	9.624	Fig.15
	693	133422		50	0	9.608	Fig.16	9.586	Fig.17	9.608	Fig.18
	670.5	133197	15	75	0	14.39	Fig.19	14.23	Fig.20	14.19	Fig.21
	680.5	133297		75	0	14.48	Fig.22	14.20	Fig.23	14.41	Fig.24
	690.5	133397		75	0	14.46	Fig.25	14.32	Fig.26	14.40	Fig.27
	673	133222	20	100	0	19.25	Fig.28	18.90	Fig.29	19.05	Fig.30
	683	133322		100	0	18.90	Fig.31	18.84	Fig.32	18.96	Fig.33
	688	133372		100	0	18.91	Fig.34	18.74	Fig.35	18.94	Fig.36

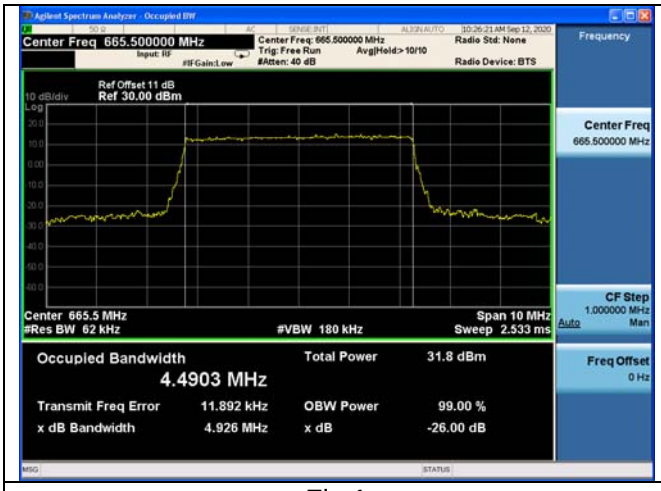

Fig.1

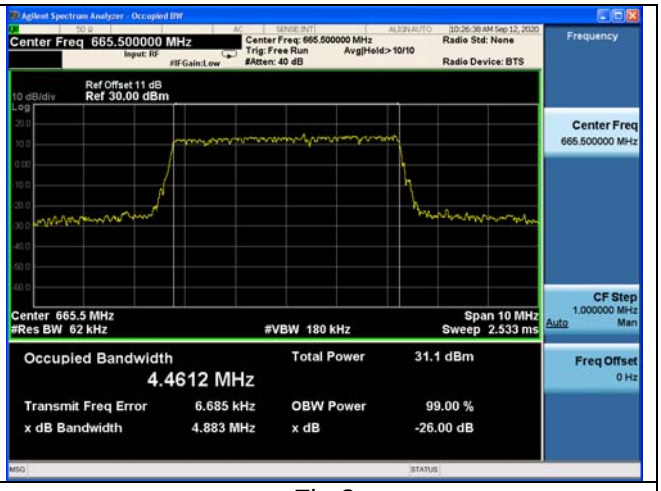

Fig.2

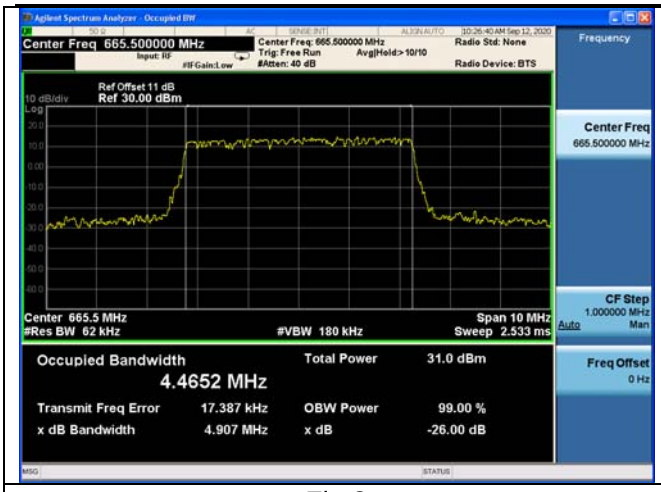

Fig.3

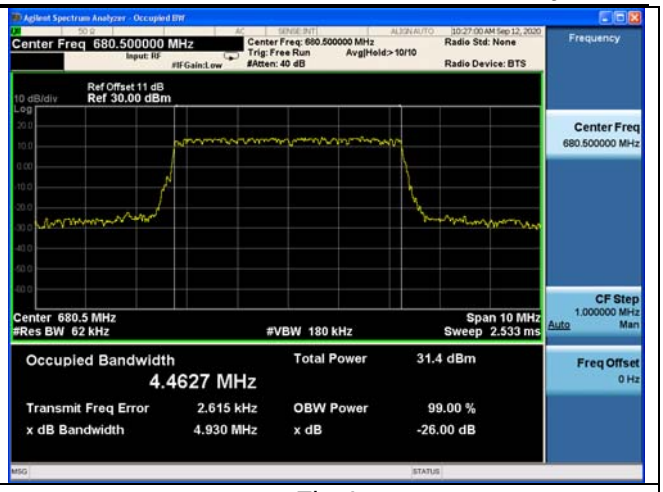

Fig.4

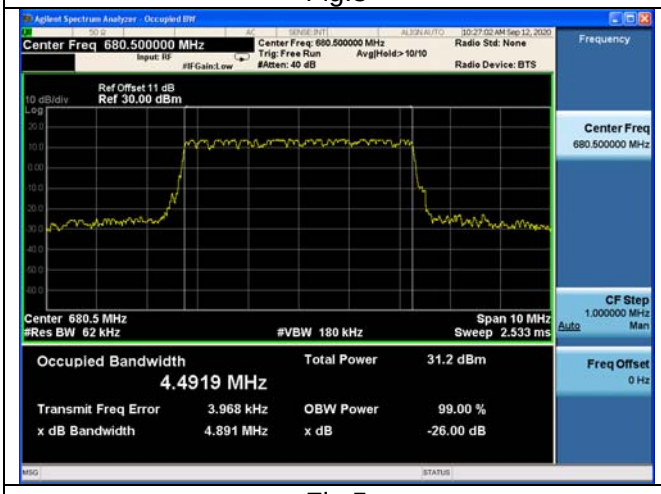

Fig.5

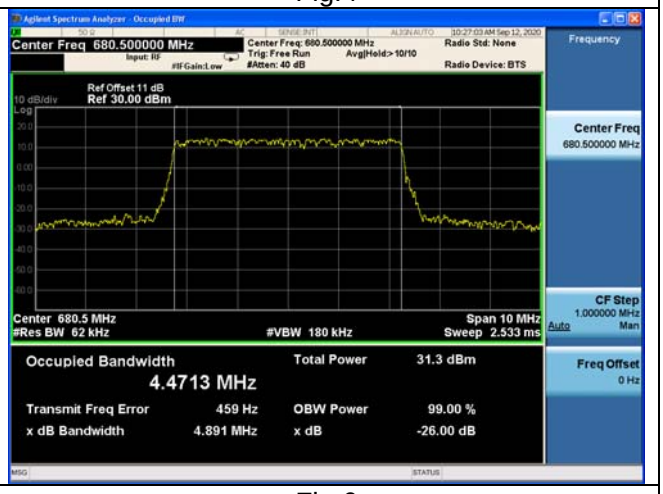

Fig.6

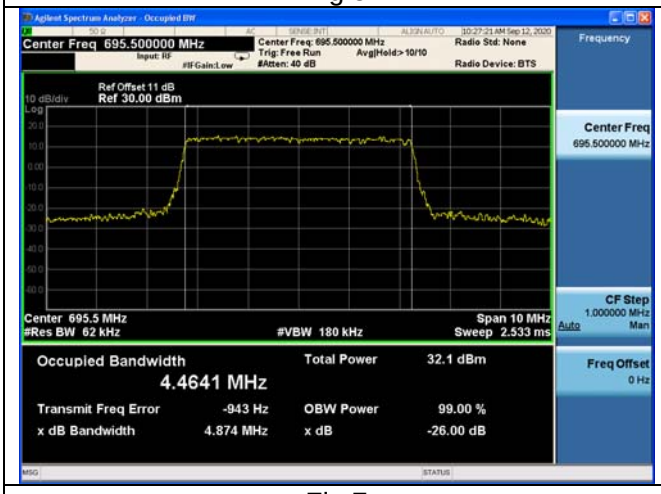

Fig.7

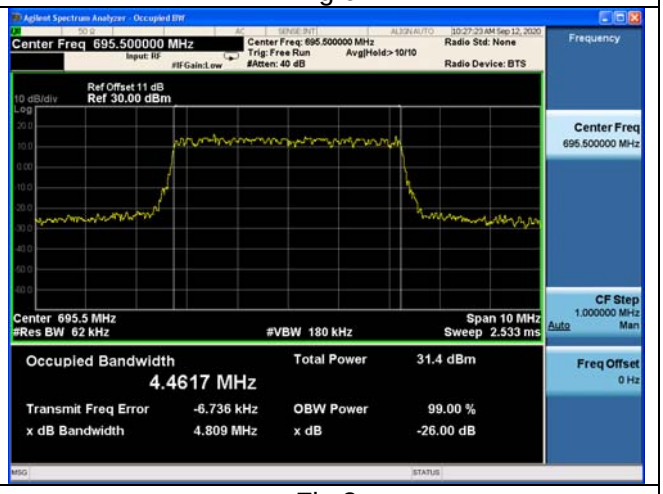

Fig.8

Fig.9

Fig.10

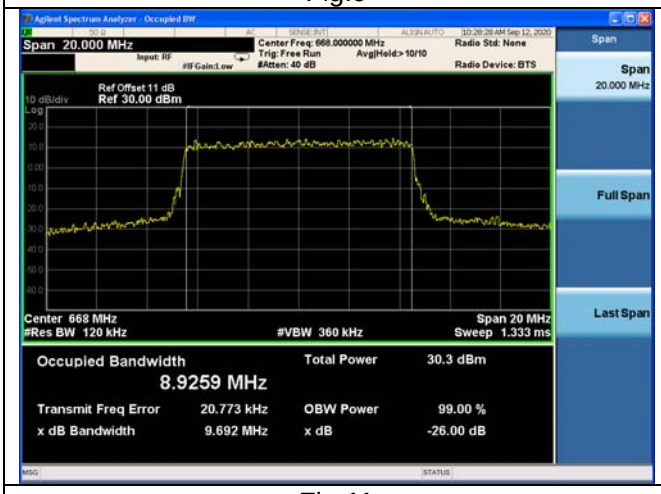

Fig.11

Fig.12

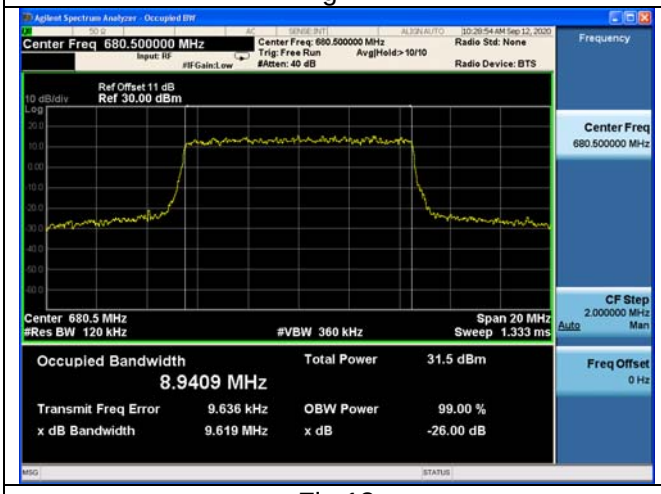

Fig.13

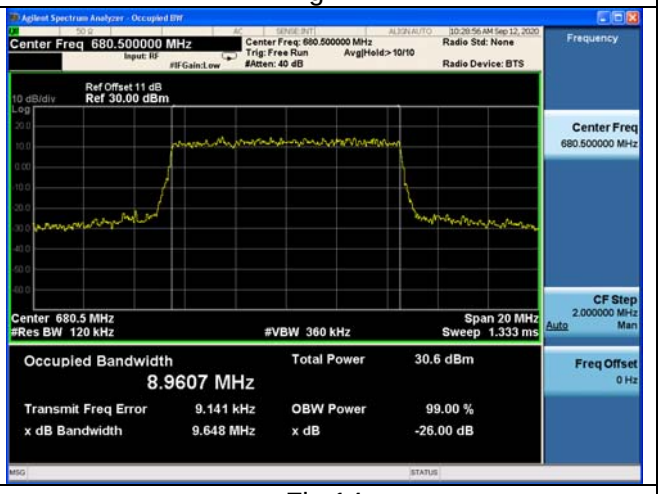

Fig.14

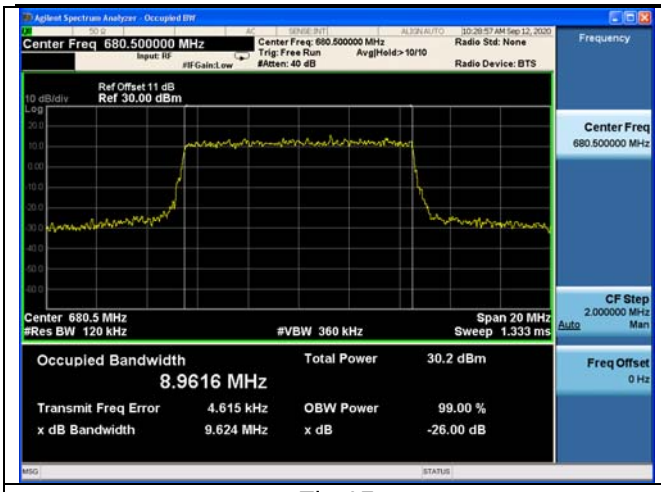

Fig.15

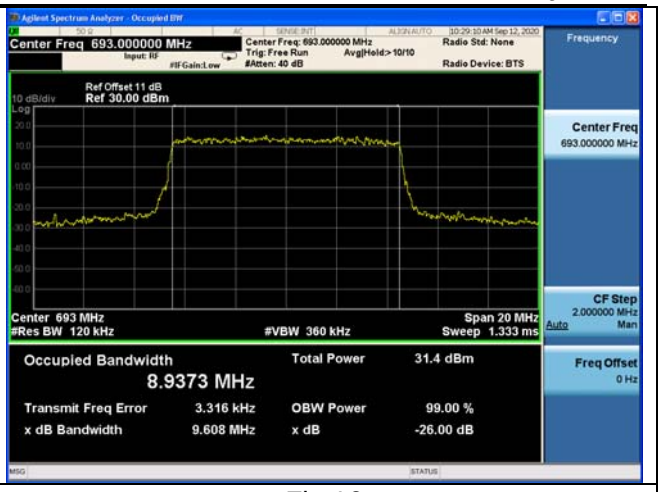

Fig.16

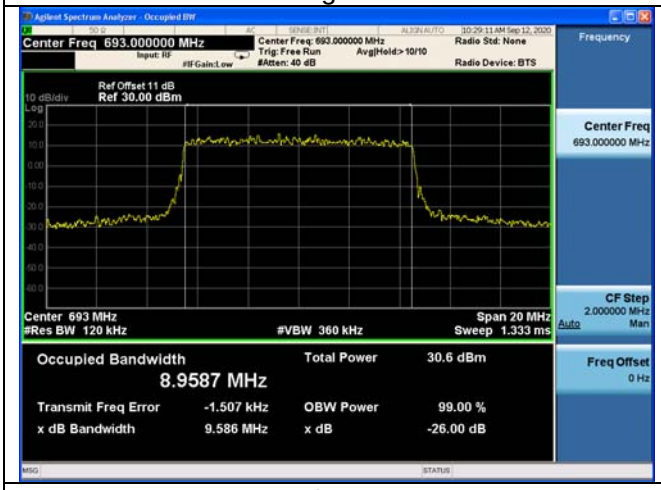

Fig.17

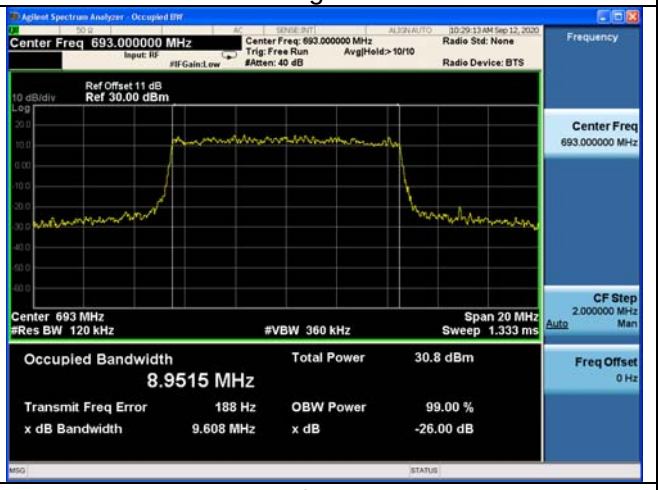

Fig.18

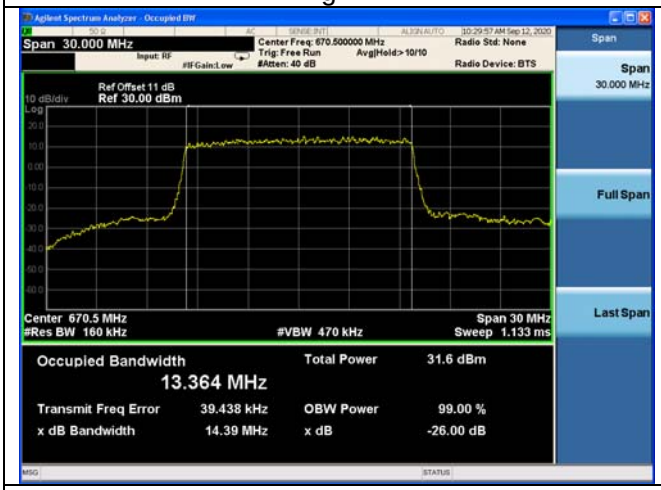

Fig.19

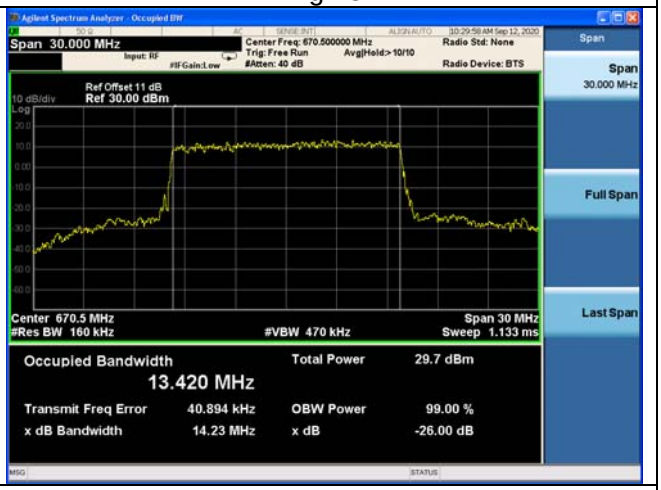

Fig.20

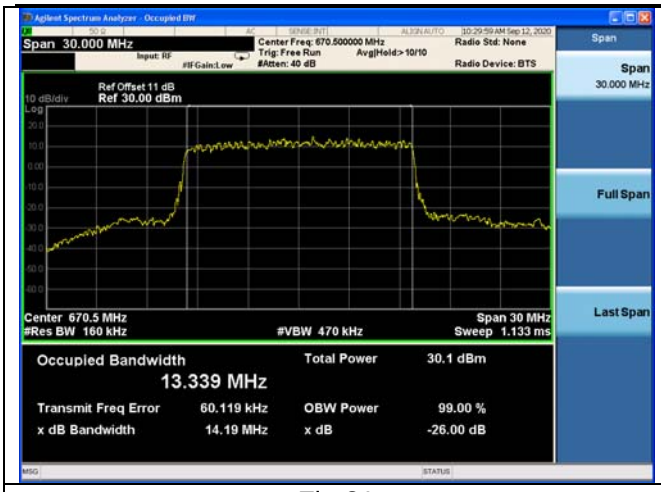

Fig.21

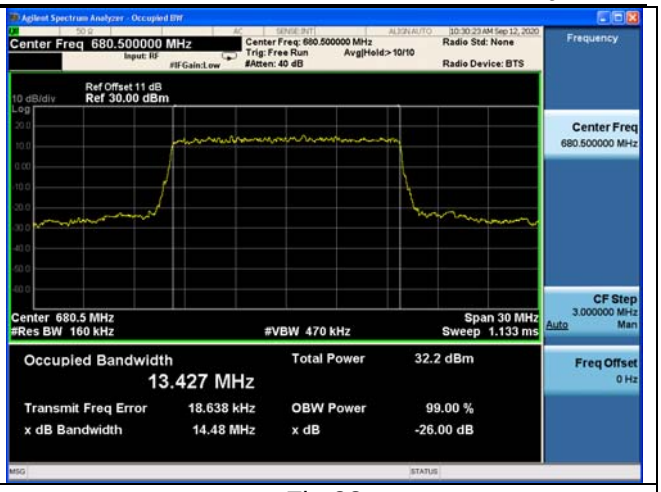

Fig.22

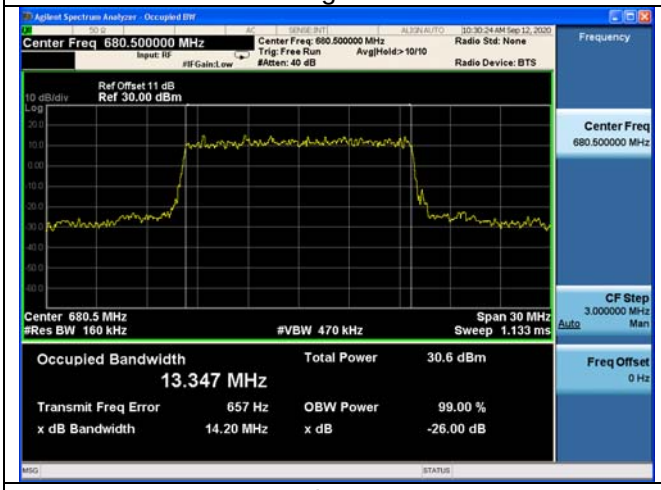

Fig.23

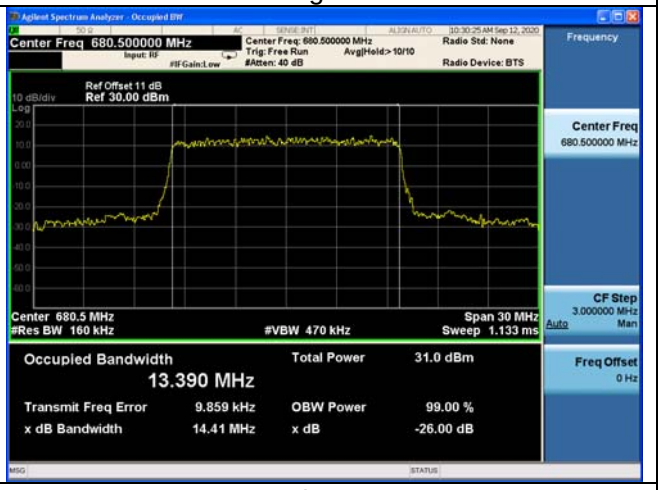

Fig.24

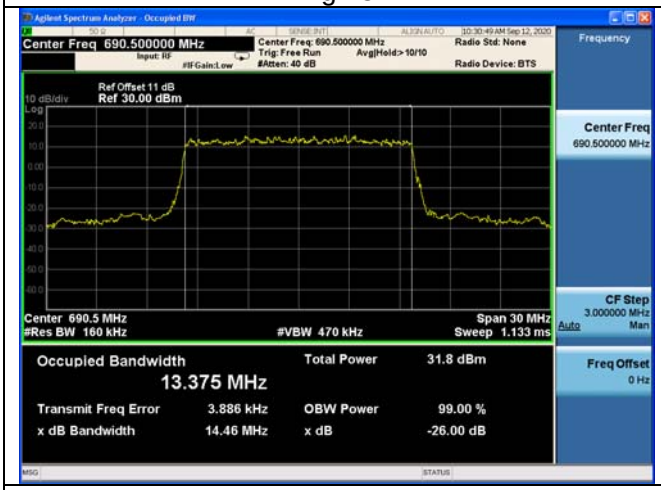

Fig.25

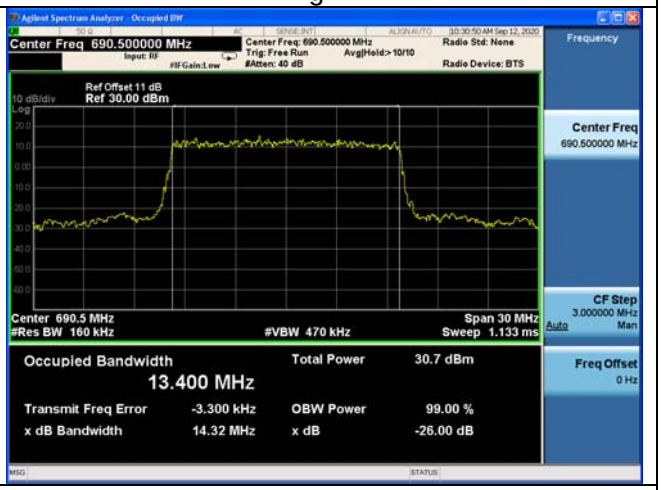

Fig.26

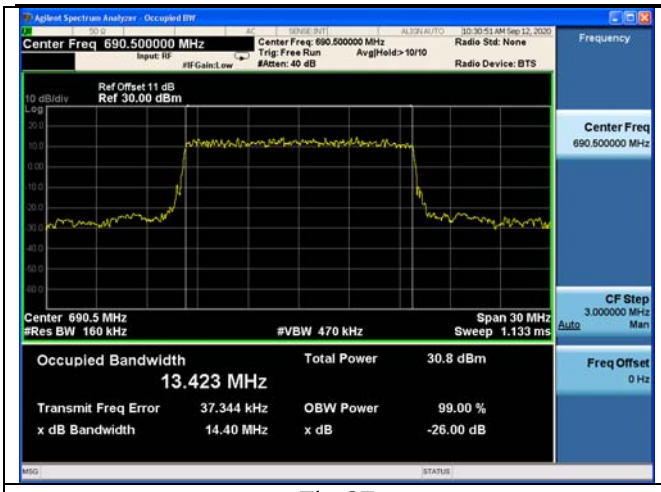

Fig.27

Fig.28

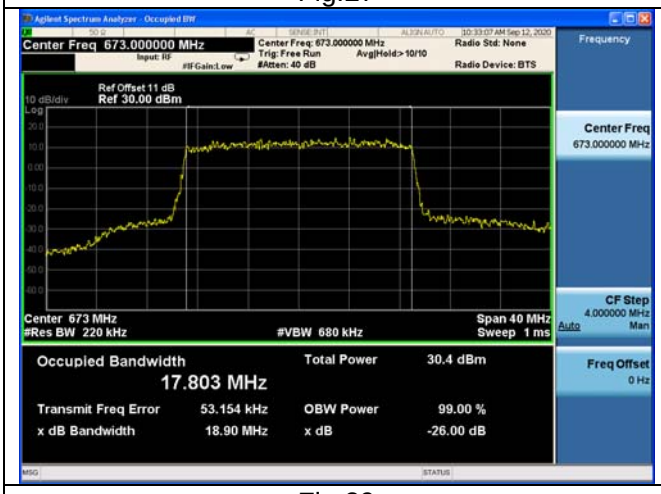

Fig.29

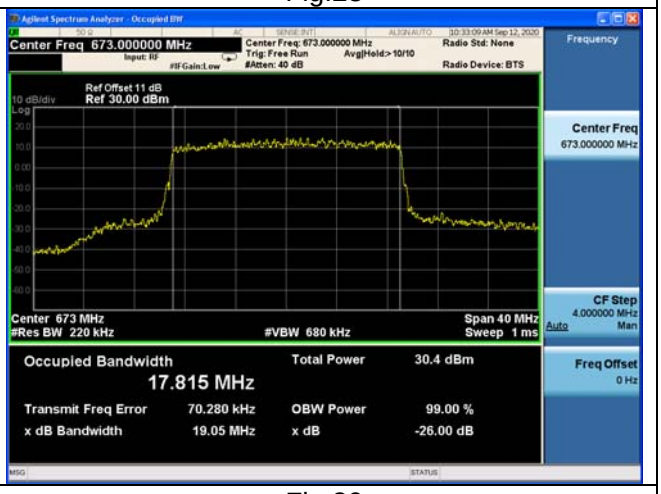

Fig.30

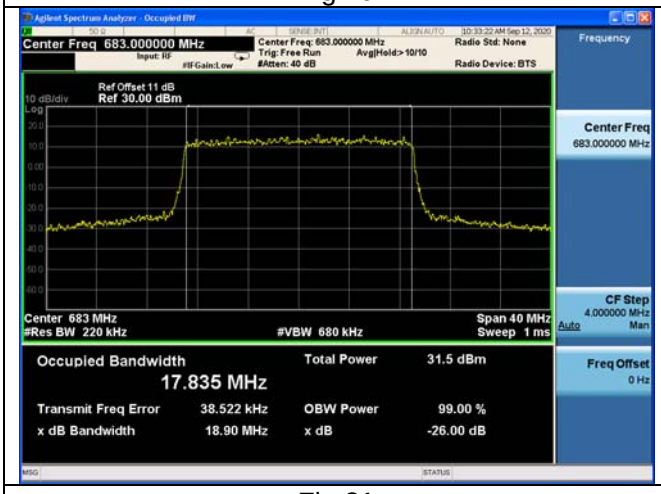

Fig.31

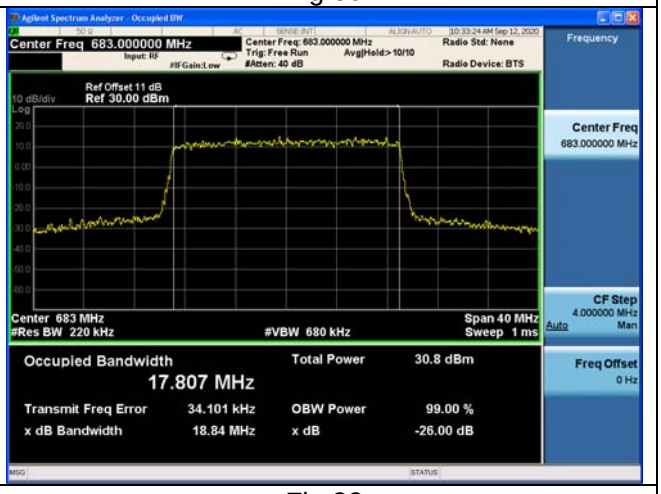

Fig.32

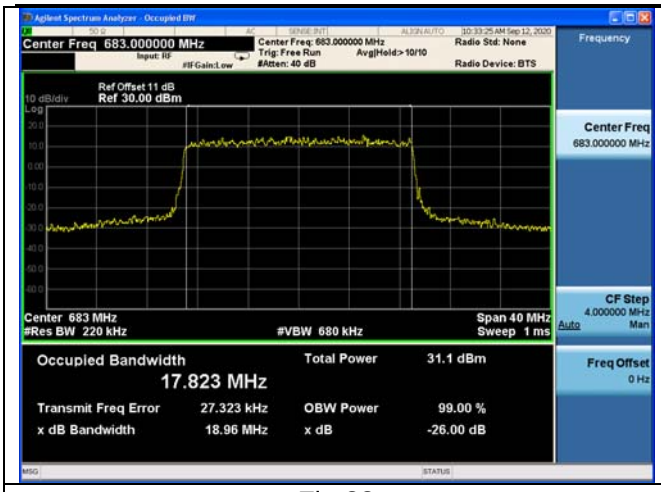

Fig.33

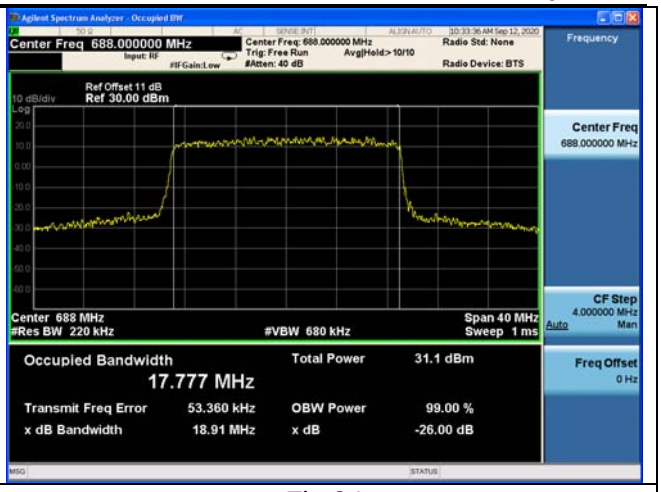

Fig.34

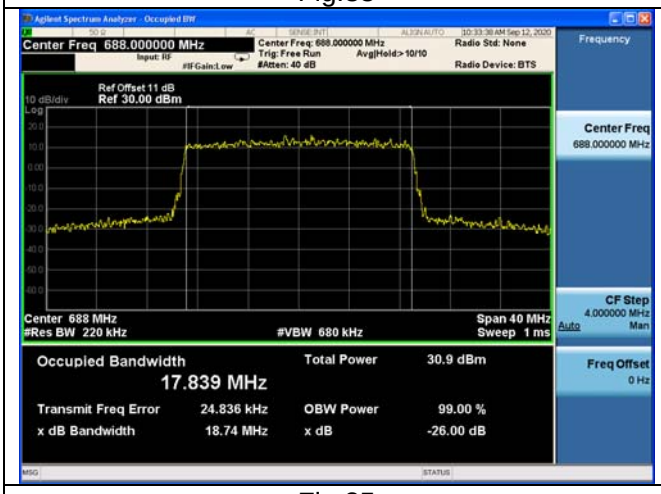

Fig.35

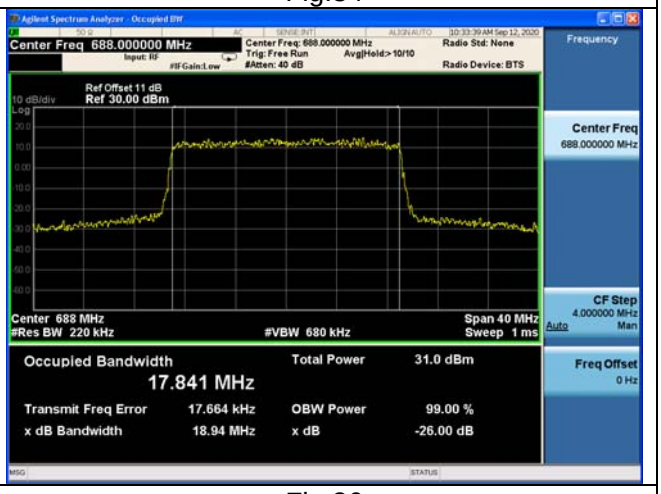

Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
71	680.5	133297	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6
			15	1	0	Fig.7	Fig.8	Fig.9
	683	133322	20	1	0	Fig.10	Fig.11	Fig.12

Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

Fig.6

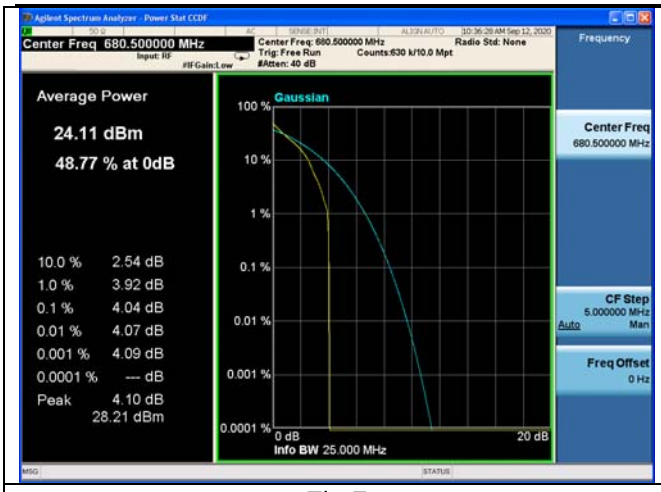

Fig.7

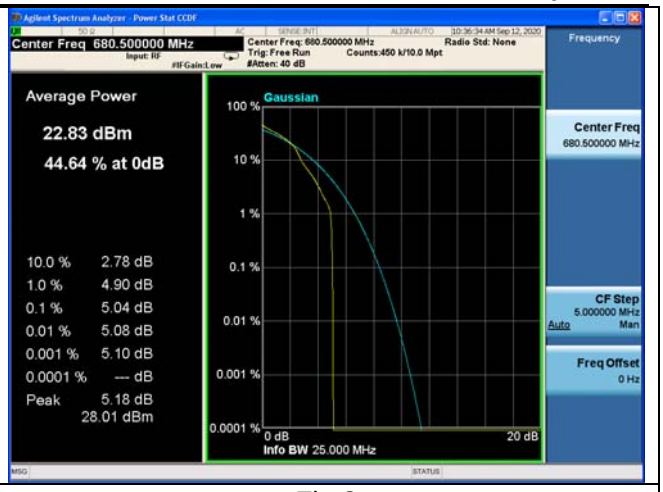

Fig.8

Fig.9

Fig.10

Fig.11

Fig.12

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
71	673	133222	20	1	0	Fig.1-2
	683	133322	20	1	0	Fig.3-4
	688	133372	20	1	0	Fig.5-6

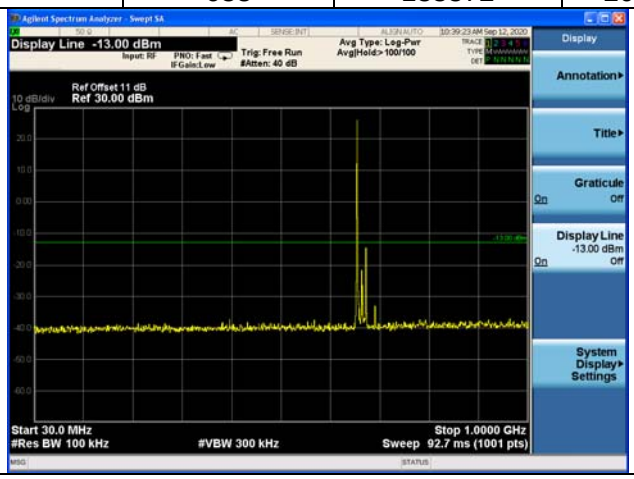

Fig.1

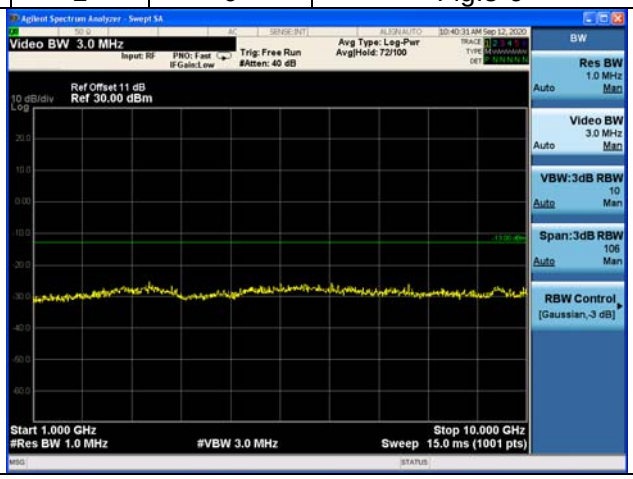

Fig.2

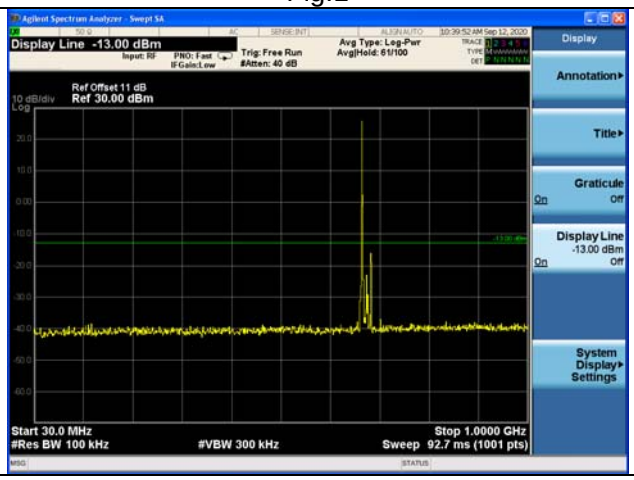

Fig3

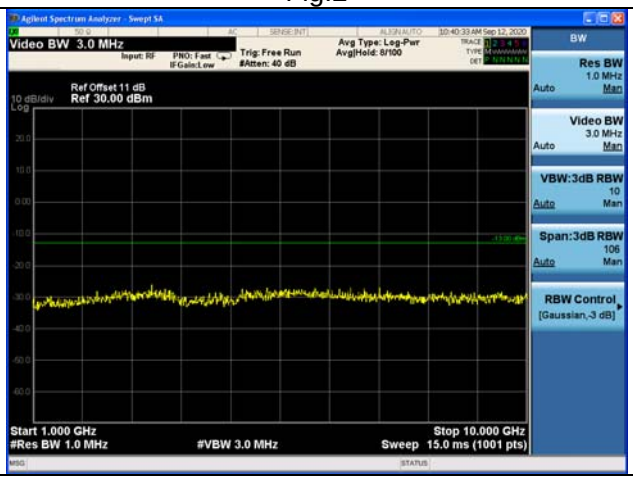

Fig4

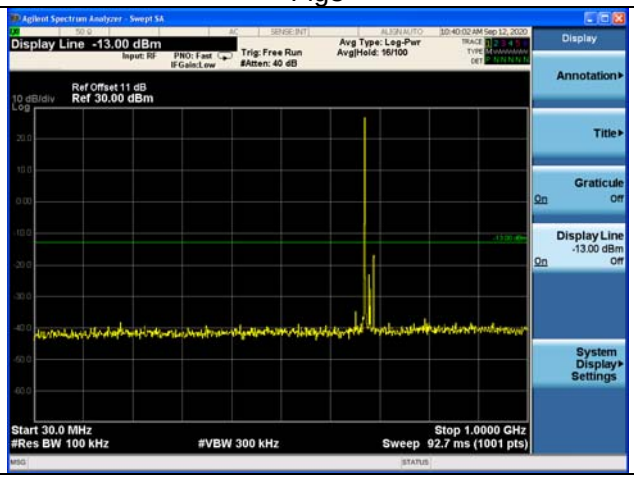

Fig5

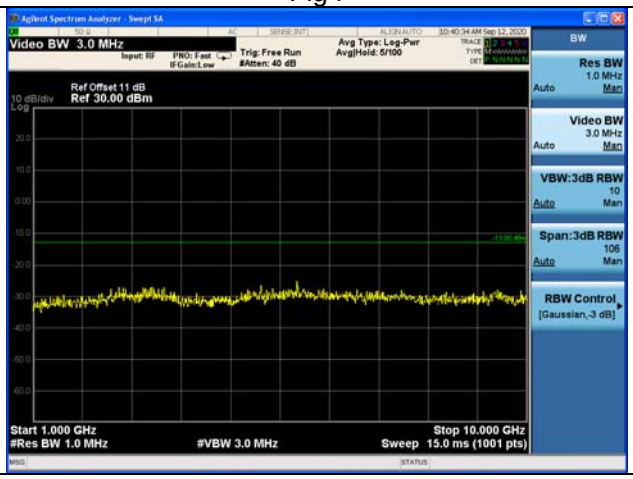

Fig6

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
71	665.5	133147	5	1	0	Fig.1
				25	0	Fig.2
	695.5	133447		1	24	Fig.3
				25	0	Fig.4
	668	133172	10	1	0	Fig.5
				50	0	Fig.6
	693	133422		1	49	Fig.7
				50	0	Fig.8
	670.5	133197	15	1	0	Fig.9
				75	0	Fig.10
	690.5	133397		1	74	Fig.11
				75	0	Fig.12
	673	133222	20	1	0	Fig.13
				100	0	Fig.14
	688	133372		1	99	Fig.15
				100	0	Fig.16

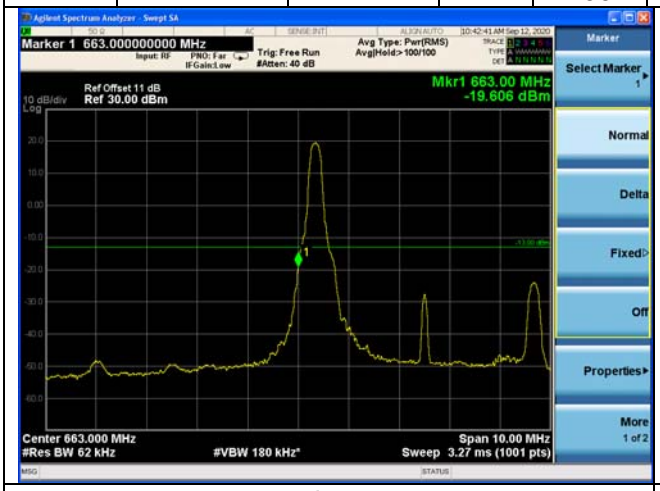

Fig.1

Fig.2

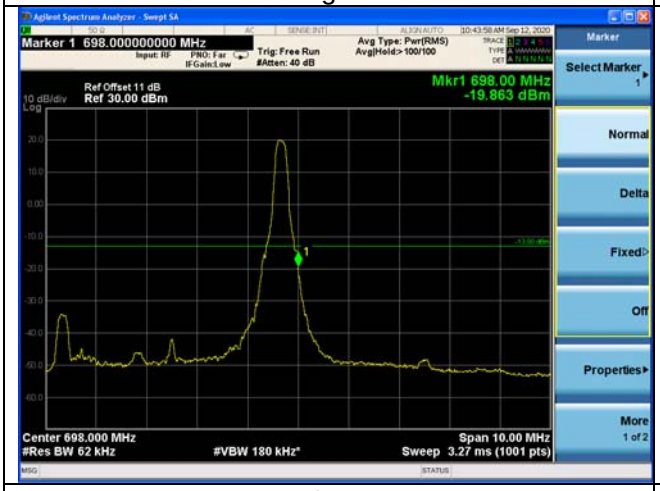

Fig.3

Fig.4

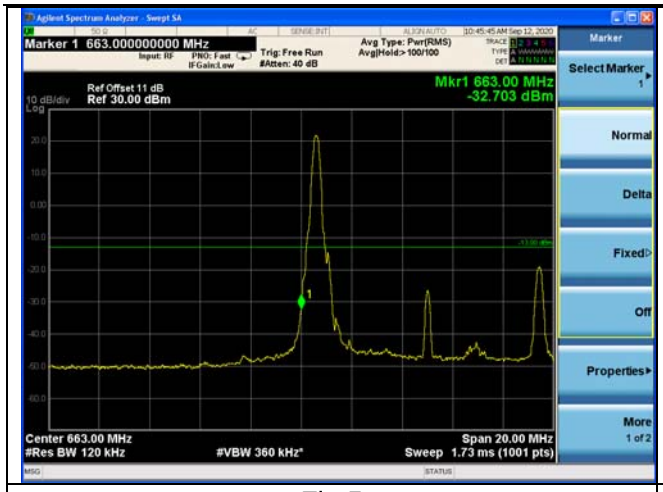

Fig.5

Fig.6

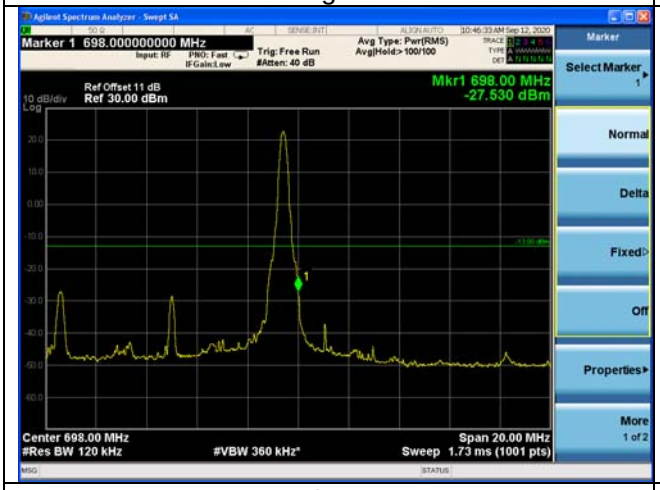

Fig.7

Fig.8

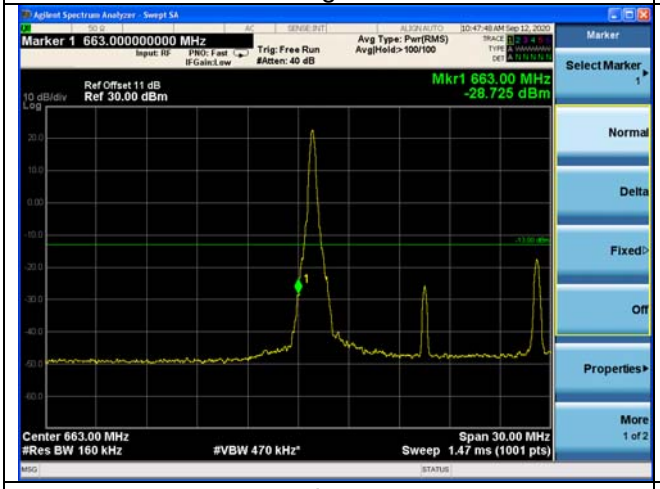

Fig.9

Fig.10

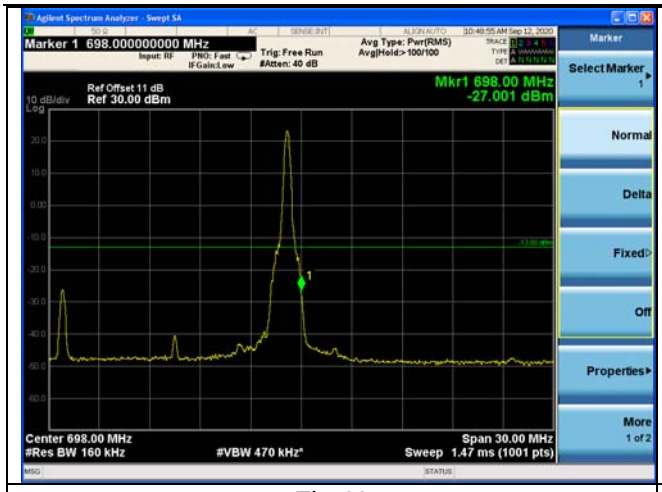

Fig.11

Fig.12

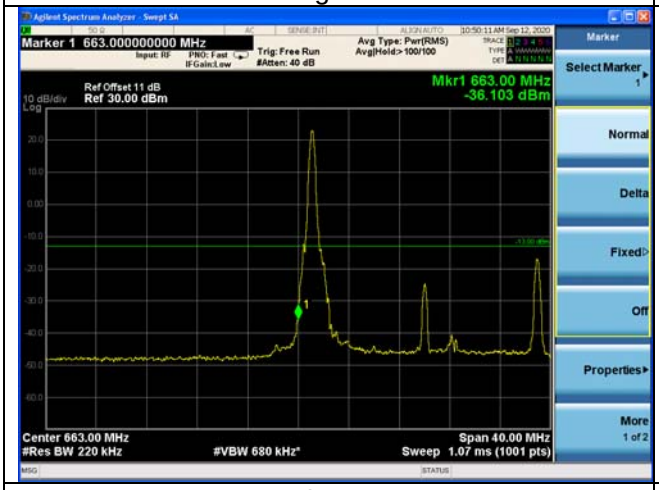

Fig.13

Fig.14

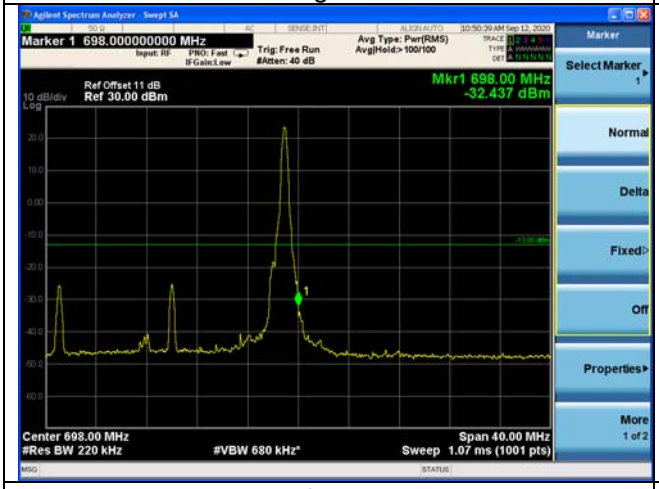

Fig.15

Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band71 Low Channel			
		5M	10M	15M	20M
-10	NV	0.044	-0.031	-0.042	0.050
0	NV	0.024	-0.016	-0.028	0.015
+10	NV	0.049	-0.015	-0.034	0.003
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.023	-0.031	0.027	0.034
+40	NV	0.028	0.040	0.023	-0.037
+50	NV	-0.013	0.025	0.045	-0.037
+55	NV	-0.001	-0.032	0.017	-0.006
+20	LV	0.041	-0.027	0.010	0.000
+20	HV	0.006	-0.034	0.014	0.048

Temperature(°C)	Voltage	Test Result (ppm) Band71 High Channel			
		5M	10M	15M	20M
-10	NV	0.032	0.048	0.052	0.052
0	NV	0.051	-0.017	-0.030	0.021
+10	NV	-0.017	0.040	-0.030	-0.025
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.031	0.038	-0.003	-0.041
+40	NV	0.002	-0.025	0.045	0.015
+50	NV	-0.007	0.005	0.039	0.038
+55	NV	-0.040	-0.025	0.022	0.008
+20	LV	0.031	-0.005	-0.031	-0.021
+20	HV	-0.024	0.031	0.052	0.021