

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 17 1 RF Power Output

BANDWIDTH	Number of RBs	Conducted Power (dBm)				
		Frequency	QPSK	16QAM	64QAM	
5MHz	1RB-High (24)	713.5 (23825)	24.11	23.27	23.22	
		710 (23790)	24.10	23.29	23.28	
		706.5 (23755)	24.04	23.35	23.34	
	1RB-Middle (12)	713.5 (23825)	24.08	23.27	23.22	
		710 (23790)	23.99	23.31	23.24	
		706.5 (23755)	23.86	23.20	23.21	
	1RB-Low (0)	713.5 (23825)	24.03	23.20	23.12	
		710 (23790)	23.93	23.15	23.11	
		706.5 (23755)	23.81	23.15	23.19	
	12RB-High (13)	713.5 (23825)	23.17	22.08	22.09	
		710 (23790)	23.11	22.13	22.08	
		706.5 (23755)	23.08	22.06	22.02	
	12RB-Middle (6)	713.5 (23825)	23.10	22.06	22.03	
		710 (23790)	23.07	22.09	22.02	
		706.5 (23755)	23.03	22.07	22.05	
	12RB-Low (0)	713.5 (23825)	23.14	22.02	21.99	
		710 (23790)	23.01	22.06	22.00	
		706.5 (23755)	22.92	21.95	21.99	
	25RB (0)	713.5 (23825)	23.08	22.02	22.02	
		710 (23790)	23.01	22.05	22.04	
		706.5 (23755)	23.04	22.03	22.05	
	10MHz	1RB-High (49)	711 (23800)	24.04	23.33	23.34
			710 (23790)	24.03	23.38	23.41
			709 (23780)	24.03	23.39	23.46
1RB-Middle (24)		711 (23800)	24.11	23.33	23.31	
		710 (23790)	24.05	23.37	23.40	
		709 (23780)	23.92	23.28	23.41	
1RB-Low (0)		711 (23800)	23.97	23.17	23.29	
		710 (23790)	23.86	23.14	23.24	
		709 (23780)	23.80	23.21	23.26	
25RB-High (25)		711 (23800)	23.24	22.07	22.13	
		710 (23790)	23.14	22.07	22.13	
		709 (23780)	23.11	22.16	22.11	
25RB-Middle (12)		711 (23800)	23.15	22.00	22.04	
		710 (23790)	23.04	22.05	22.08	
		709 (23780)	23.12	22.15	22.14	
25RB-Low (0)		711 (23800)	23.10	21.98	22.00	
		710 (23790)	23.00	21.99	22.00	
		709 (23780)	22.99	21.96	21.95	
50RB (0)		711 (23800)	23.10	22.04	22.03	
		710 (23790)	23.01	22.06	21.97	
		709 (23780)	23.03	21.99	22.00	

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	
17	706.5	23755	5	25	0	4.4784	Fig.1	4.4891	Fig.2	4.4731	Fig.3
	710	23790		25	0	4.4717	Fig.4	4.4701	Fig.5	4.4723	Fig.6
	713.5	23825		25	0	4.4801	Fig.7	4.4689	Fig.8	4.4746	Fig.9
	709	23780	10	50	0	8.9418	Fig.10	8.9329	Fig.11	8.9651	Fig.12
	710	23790		50	0	8.9602	Fig.13	8.9290	Fig.14	8.9425	Fig.15
	711	23800		50	0	8.9388	Fig.16	8.9190	Fig.17	8.9438	Fig.18

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
17	706.5	23755	5	25	0	4.928	Fig.1	4.841	Fig.2	4.867	Fig.3
	710	23790		25	0	4.924	Fig.4	4.828	Fig.5	4.888	Fig.6
	713.5	23825		25	0	4.875	Fig.7	4.866	Fig.8	4.885	Fig.9
	709	23780	10	50	0	9.643	Fig.10	9.581	Fig.11	9.581	Fig.12
	710	23790		50	0	9.549	Fig.13	9.607	Fig.14	9.548	Fig.15
	711	23800		50	0	9.507	Fig.16	9.558	Fig.17	9.598	Fig.18

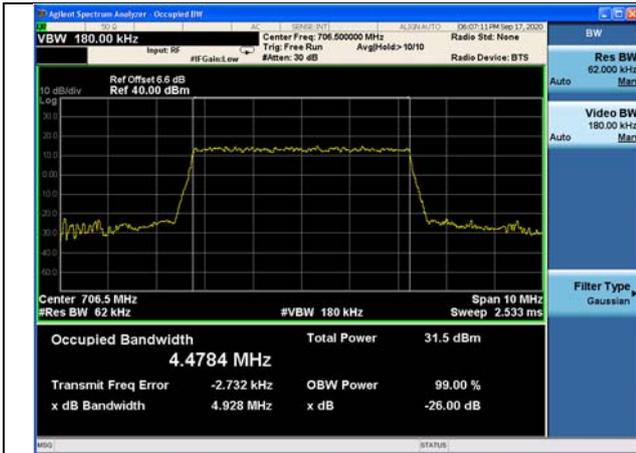


Fig.1

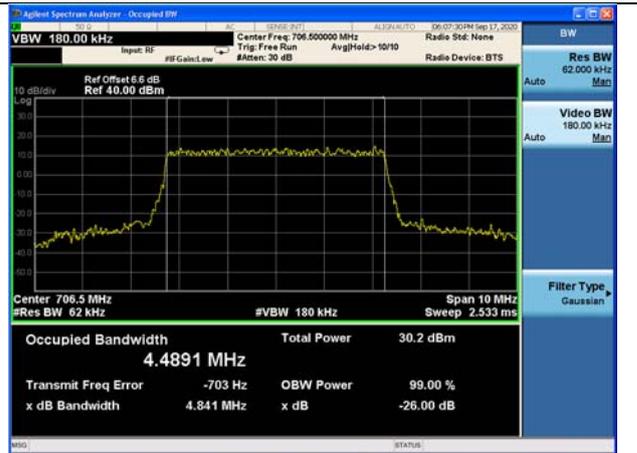


Fig.2

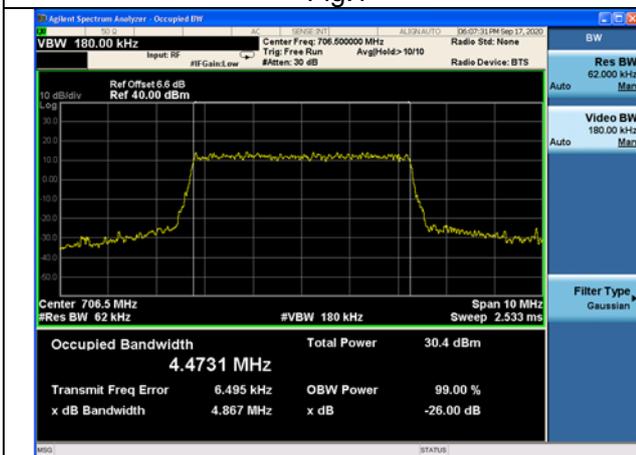


Fig.3



Fig.4

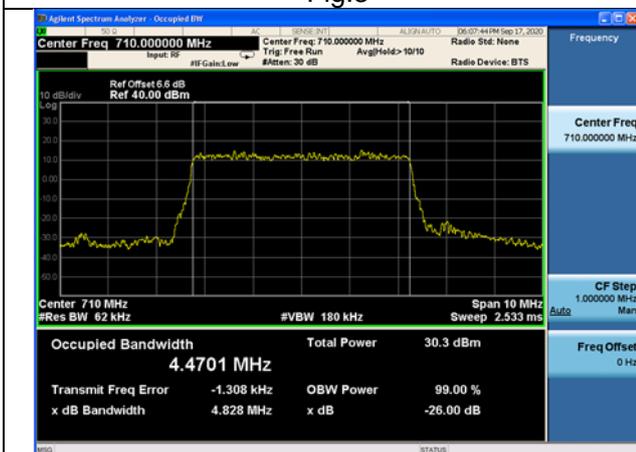


Fig.5

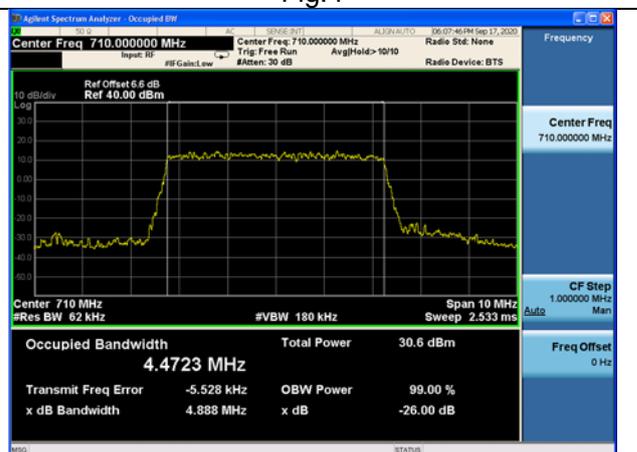


Fig.6

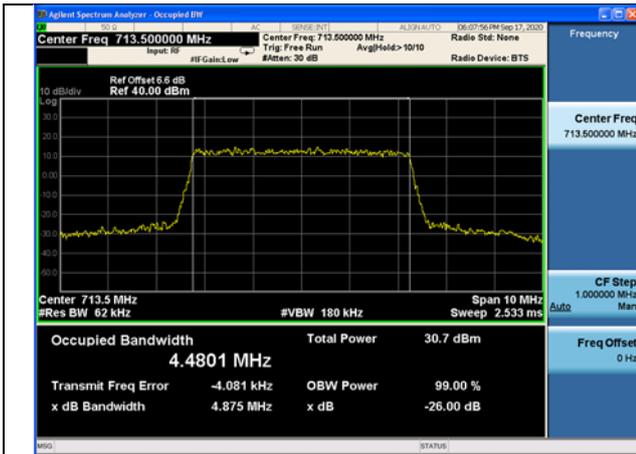


Fig.7

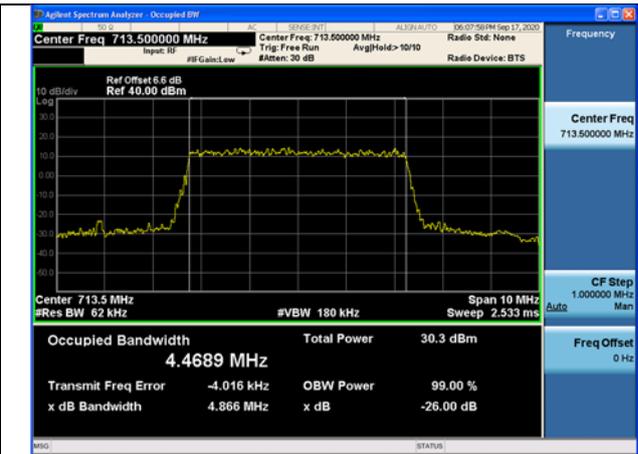


Fig.8

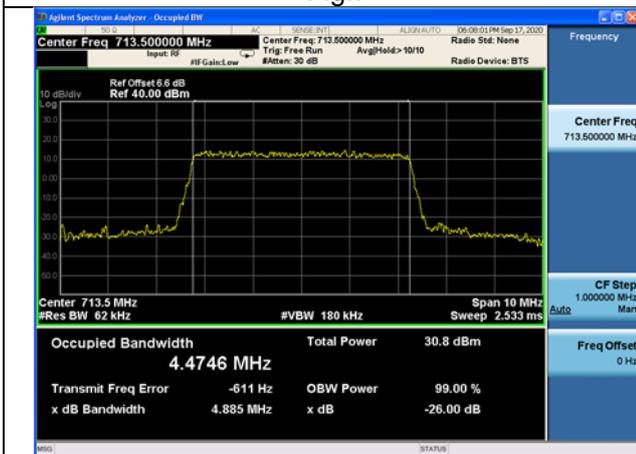


Fig.9

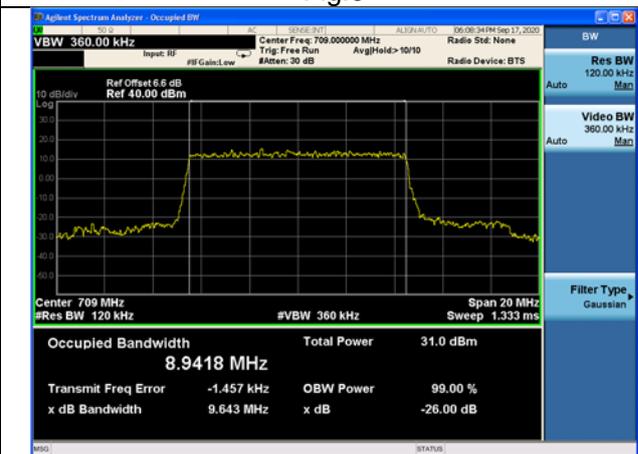


Fig.10

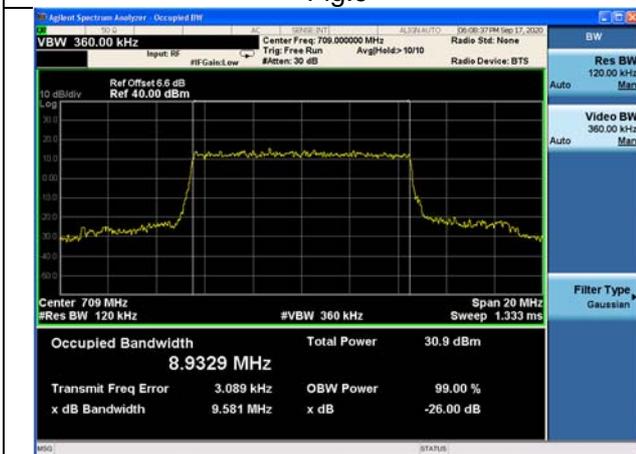


Fig.11

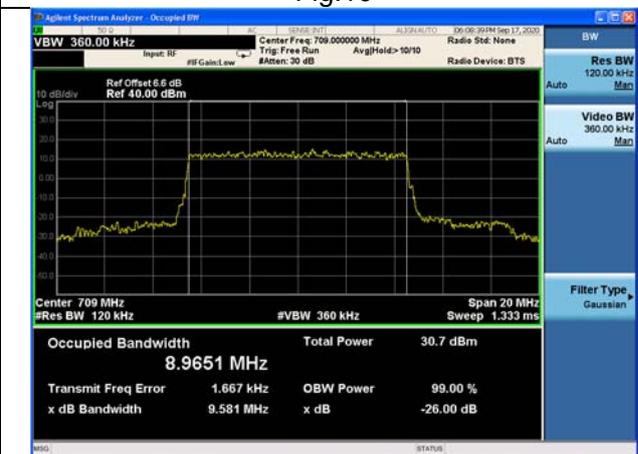


Fig.12

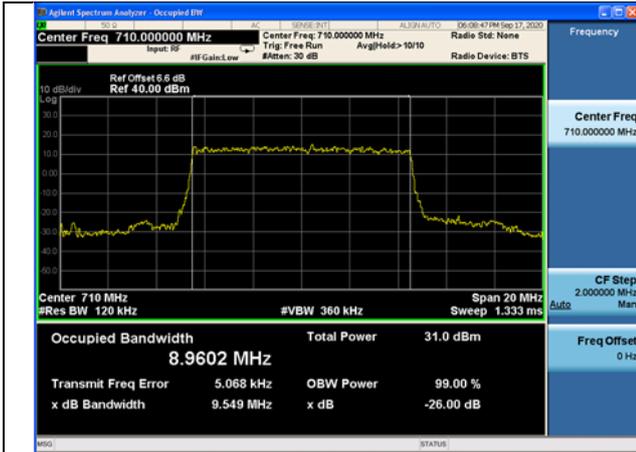


Fig.13

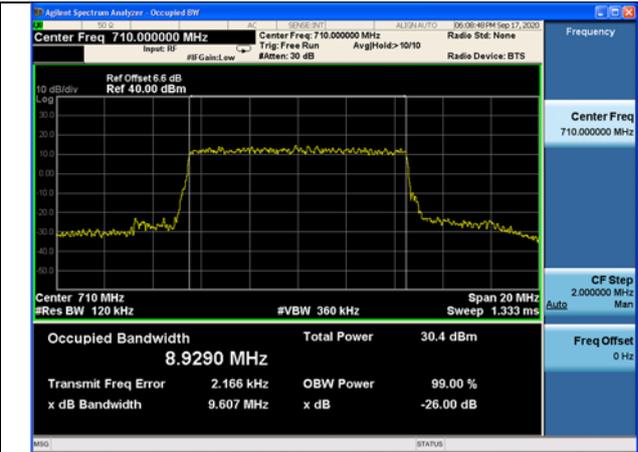


Fig.14

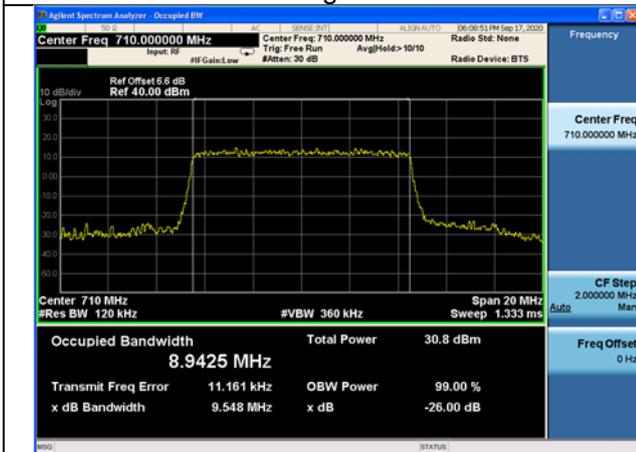


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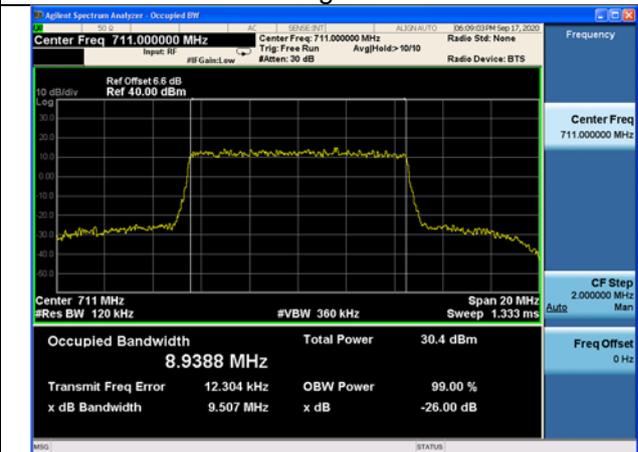


Fig.16

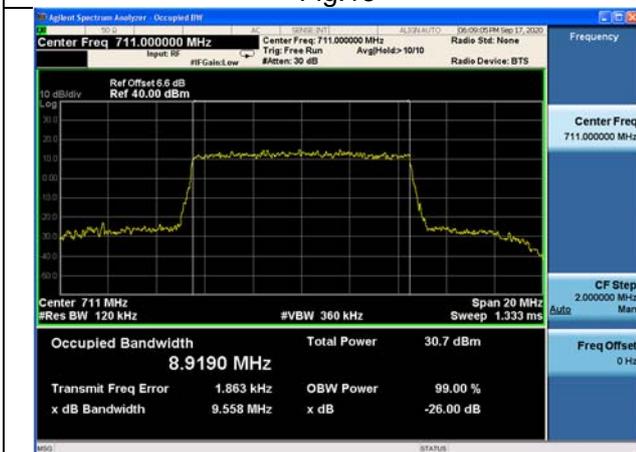


Fig.17

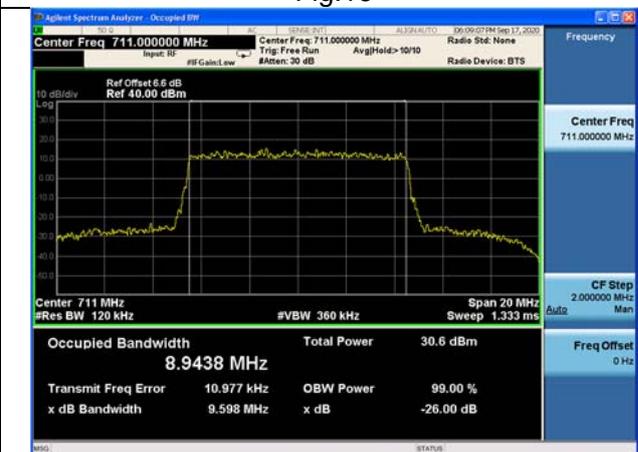


Fig.18

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
17	710	23790	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6



Fig.1

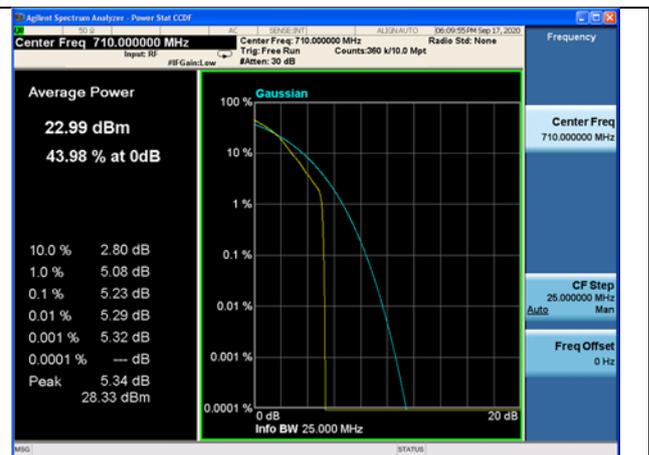


Fig.2



Fig.3



Fig.4



Fig.5

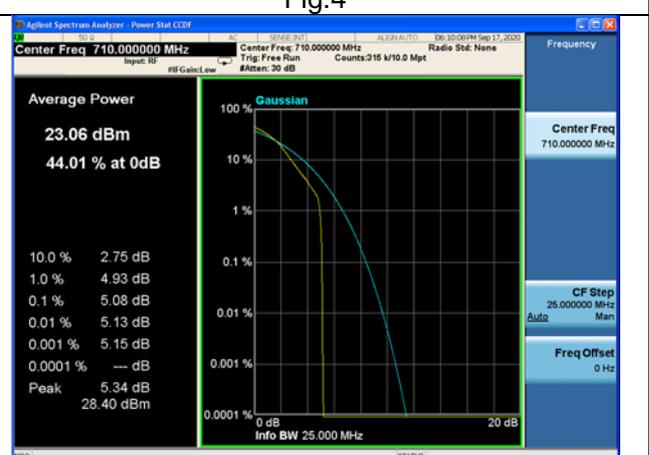


Fig.6

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
17	709	23780	10	1	0	Fig.1-2
	710	23790	10	1	0	Fig.3-4
	711	23800	10	1	0	Fig.5-6

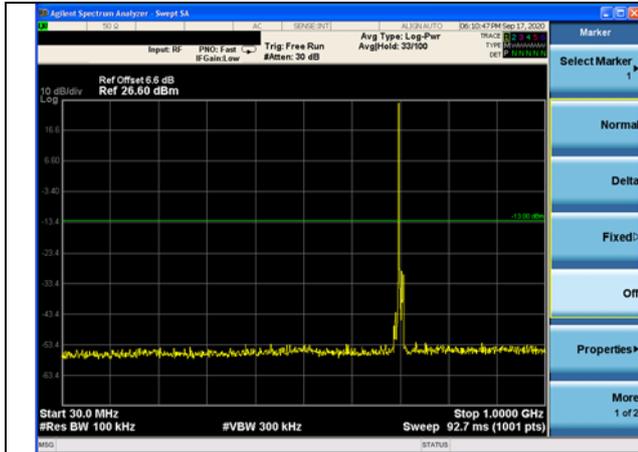


Fig.1

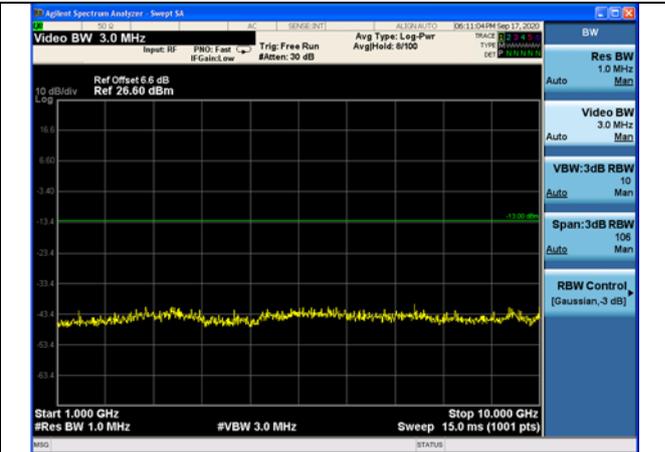


Fig.2

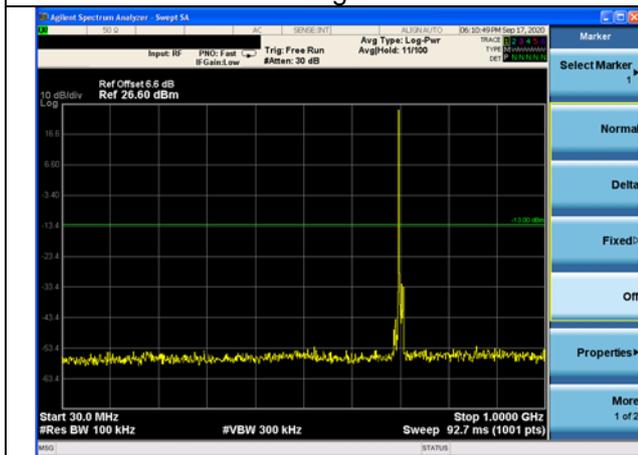


Fig.3

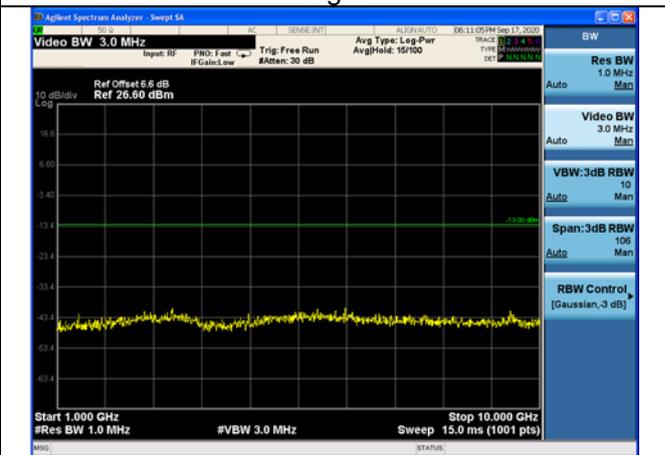


Fig.4

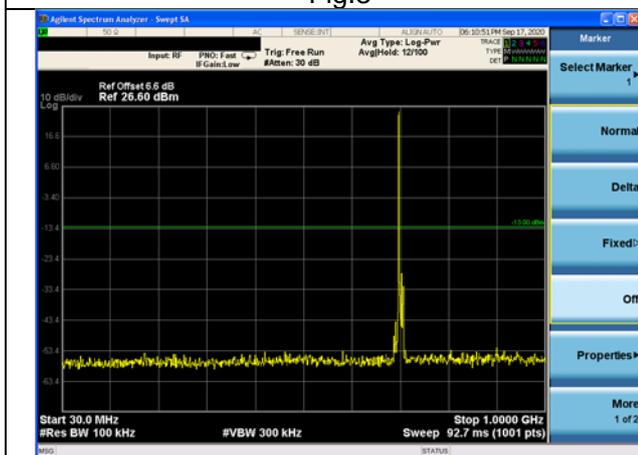


Fig.5

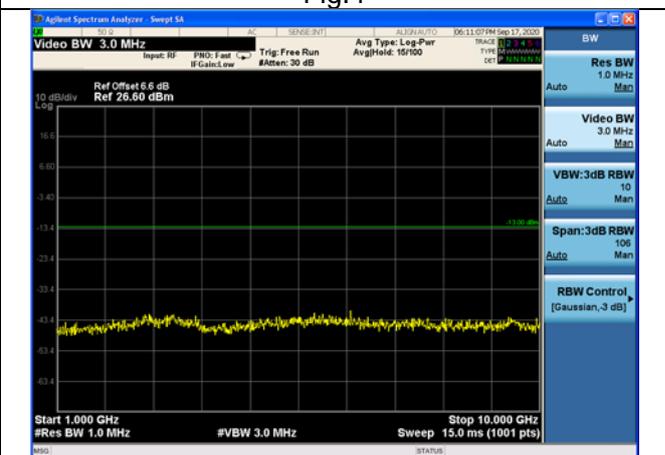


Fig.6

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot		
						QPSK		
17	706.5	23755	5	1	0	Fig.1		
				25	0	Fig.2		
	713.5	23825		1	24	Fig.3		
				25	0	Fig.4		
	709	23780	10	1	0	Fig.5		
				50	0	Fig.6		
				711	23800	1	49	Fig.7
						50	0	Fig.8

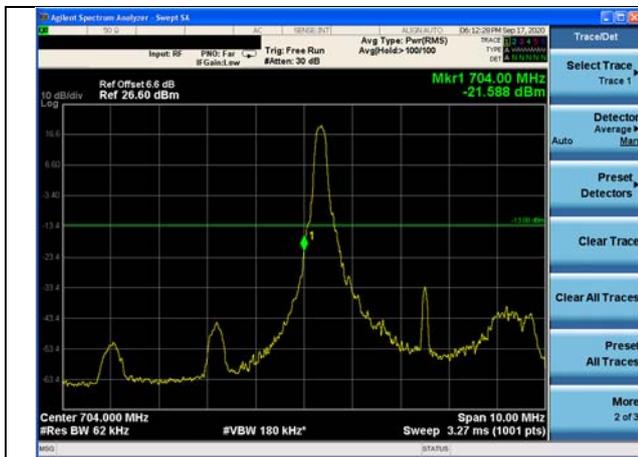


Fig.1



Fig.2

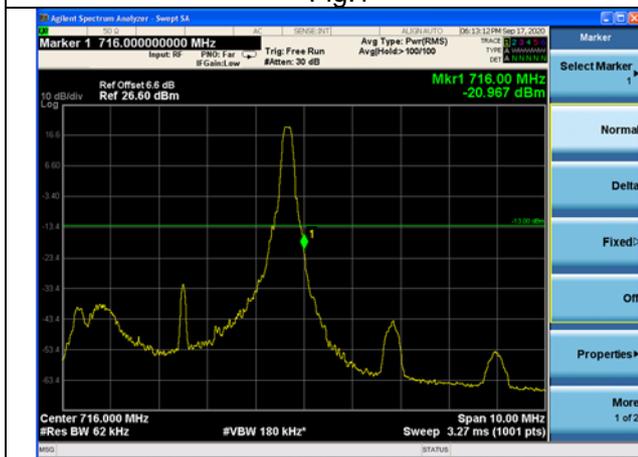


Fig.3



Fig.4

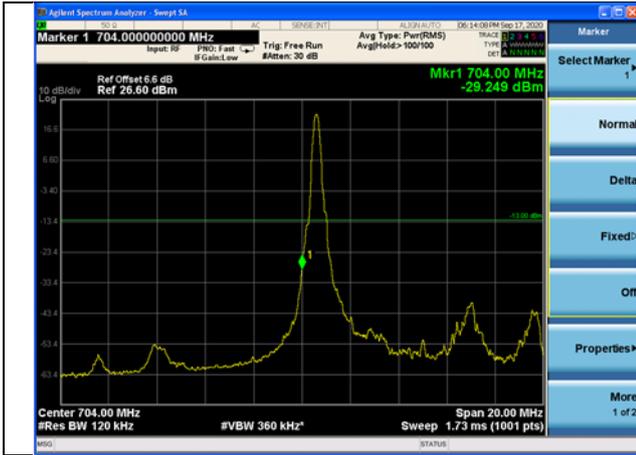


Fig.5



Fig.6

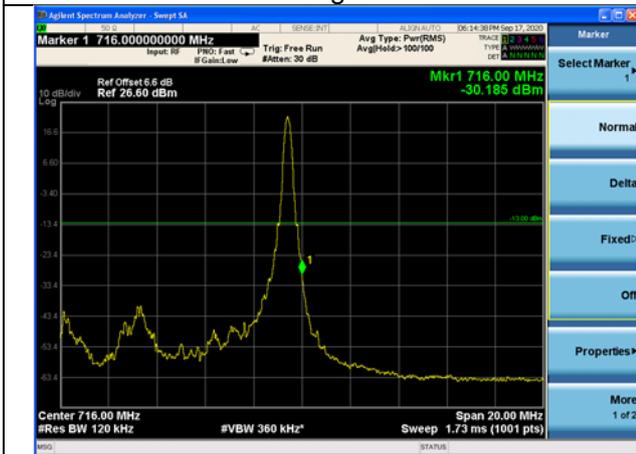


Fig.7



Fig.8

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band17 Low Channel	
		5M	10M
-10	NV	-0.003	0.065
0	NV	0.075	-0.094
10	NV	0.005	-0.066
20	NV	0.000	0.000
30	NV	-0.073	0.094
40	NV	0.064	0.082
50	NV	-0.013	-0.058
55	NV	-0.023	0.012
20	LV	0.009	-0.014
20	HV	0.074	0.002

Temperature(°C)	Voltage	Test Result (ppm) Band17 High Channel	
		5M	10M
-10	NV	-0.050	-0.090
0	NV	-0.020	0.003
10	NV	-0.069	0.013
20	NV	0.000	0.000
30	NV	-0.024	-0.078
40	NV	0.018	-0.071
50	NV	-0.022	-0.030
55	NV	-0.021	-0.014
20	LV	-0.080	-0.095
20	HV	0.065	0.002