

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **LTE Band 26 1 RF Power Output**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	26797	1.4	1	0	21.74
				1	5	21.73
				3	2	20.85
				6	0	20.88
	836.5	26915		1	0	21.76
				1	5	21.78
				3	2	20.99
				6	0	20.87
	848.3	27033		1	0	21.69
				1	5	21.71
				3	2	20.97
				6	0	20.79
16QAM	824.7	26797	1.4	1	0	20.83
				1	5	20.84
				3	2	19.83
				6	0	19.90
	836.5	26915		1	0	21.03
				1	5	21.11
				3	2	19.95
				6	0	19.93
	848.3	27033		1	0	20.89
				1	5	20.88
				3	2	19.79
				6	0	19.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	26805	3	1	0	21.61
				1	14	21.64
				8	4	20.91
				15	0	20.95
	836.5	26915		1	0	21.67
				1	14	21.72
				8	4	20.87
				15	0	20.99
	847.5	27025		1	0	21.68
				1	14	21.65
				8	4	20.81
				15	0	20.95
16QAM	825.5	26805	3	1	0	20.76
				1	14	20.90
				8	4	19.88
				15	0	19.81
	836.5	26915		1	0	20.91
				1	14	21.08
				8	4	19.82
				15	0	19.84
	847.5	27025		1	0	20.92
				1	14	20.75
				8	4	19.95
				15	0	19.85

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	26815	5	1	0	21.83
				1	24	21.83
				12	6	20.98
				25	0	20.99
	836.5	26915		1	0	21.82
				1	24	21.82
				12	6	21.03
				25	0	21.01
	846.5	27015		1	0	21.75
				1	24	21.75
				12	6	20.98
				25	0	20.98
16QAM	826.5	26815	5	1	0	20.91
				1	24	20.91
				12	6	19.91
				25	0	29.90
	836.5	26915		1	0	21.13
				1	24	21.13
				12	6	20.06
				25	0	19.98
	846.5	27015		1	0	20.99
				1	24	20.99
				12	6	20.02
				25	0	19.97

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	26840	10	1	0	21.90
				1	49	21.90
				24	12	21.07
				50	0	21.08
	836.5	26915		1	0	21.90
				1	49	21.90
				24	12	21.14
				50	0	21.13
	844	26990		1	0	21.85
				1	49	21.85
				24	12	21.08
				50	0	21.09
16QAM	829	26840	10	1	0	21.00
				1	49	21.00
				24	12	20.02
				50	0	20.01
	836.5	26915		1	0	21.21
				1	49	21.21
				24	12	20.10
				50	0	20.08
	844	26990		1	0	21.03
				1	49	21.03
				24	12	20.05
				50	0	20.03

## 2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
26	824.7	26797	1.4	6	0	1.0733	Fig.1	1.0781	Fig.2
	836.5	26915		6	0	1.0874	Fig.3	1.0819	Fig.4
	848.3	27033		6	0	1.0798	Fig.5	1.0758	Fig.6
	825.5	26805	3	15	0	2.6777	Fig.7	2.6789	Fig.8
	836.5	26915		15	0	2.6945	Fig.9	2.6999	Fig.10
	847.5	27025		15	0	2.6792	Fig.11	2.6836	Fig.12
	826.5	26815	5	25	0	4.4666	Fig.13	4.4579	Fig.14
	836.5	26915		25	0	4.5011	Fig.15	4.4920	Fig.16
	846.5	27015		25	0	4.4714	Fig.17	4.4734	Fig.18
	829	26840	10	50	0	8.9154	Fig.19	8.8985	Fig.20
	836.5	26915		50	0	8.9737	Fig.21	8.9641	Fig.22
	844	26990		50	0	8.9294	Fig.23	8.9191	Fig.24

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
26	824.7	26797	1.4	6	0	1.216	Fig.1	1.243	Fig.2
	836.5	26915		6	0	1.562	Fig.3	1.679	Fig.4
	848.3	27033		6	0	1.259	Fig.5	1.210	Fig.6
	825.5	26805	3	15	0	2.831	Fig.7	2.823	Fig.8
	836.5	26915		15	0	4.278	Fig.9	4.006	Fig.10
	847.5	27025		15	0	3.011	Fig.11	3.192	Fig.12
	826.5	26815	5	25	0	4.672	Fig.13	4.750	Fig.14
	836.5	26915		25	0	7.203	Fig.15	7.364	Fig.16
	846.5	27015		25	0	4.900	Fig.17	4.886	Fig.18
	829	26840	10	50	0	9.487	Fig.19	9.326	Fig.20
	836.5	26915		50	0	13.73	Fig.21	13.14	Fig.22
	844	26990		50	0	9.292	Fig.23	9.303	Fig.24

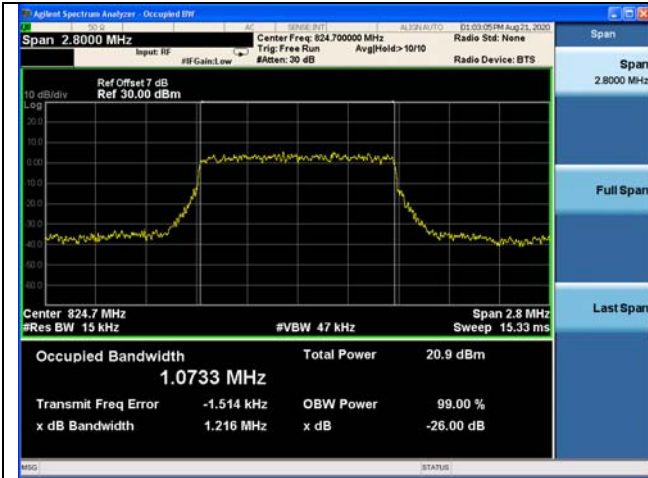


Fig.1

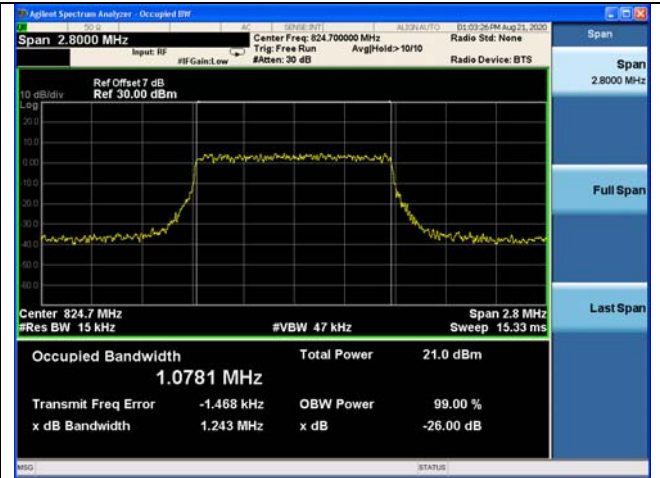


Fig.2



Fig.3

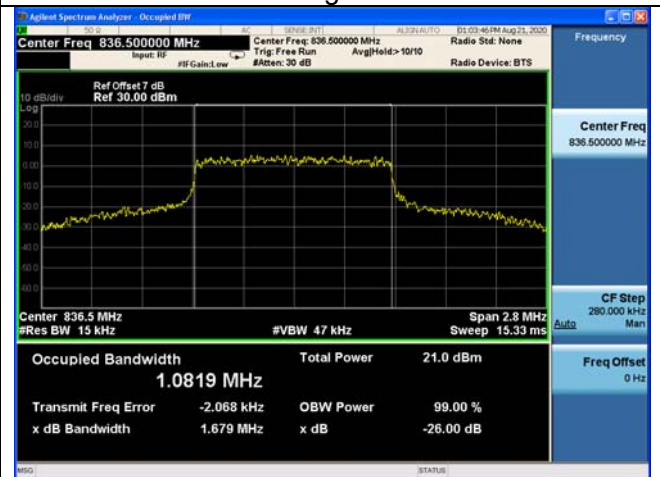


Fig.4

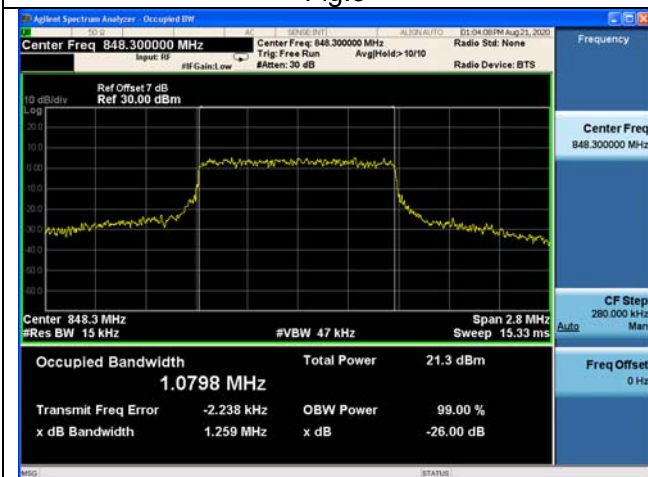


Fig.5

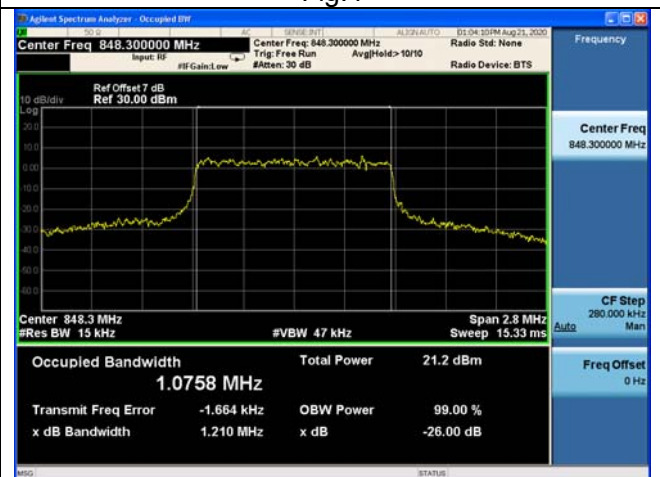


Fig.6

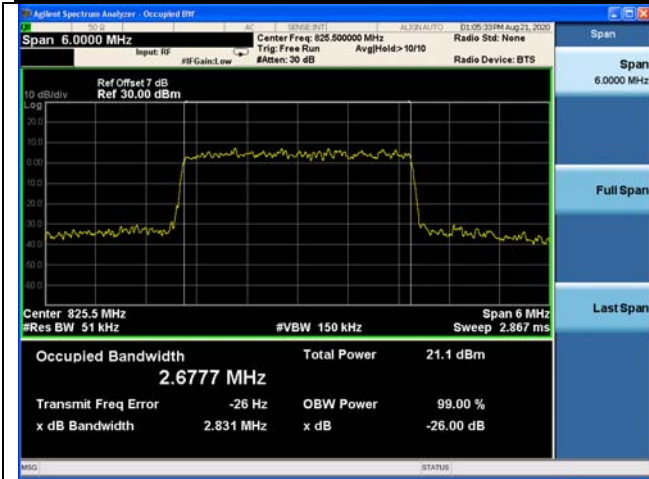


Fig.7



Fig.8

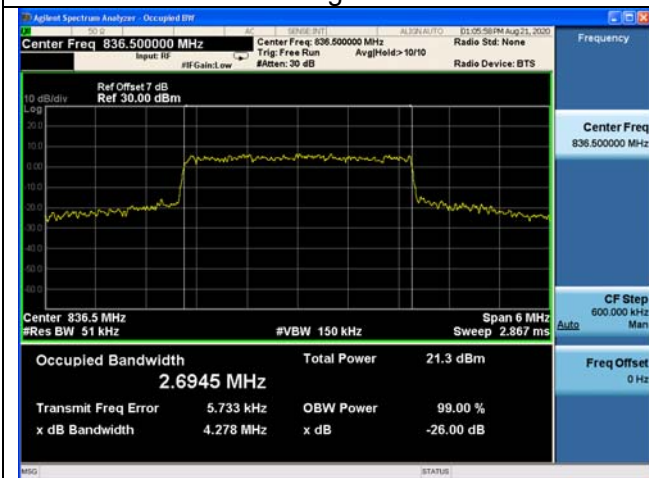


Fig.9

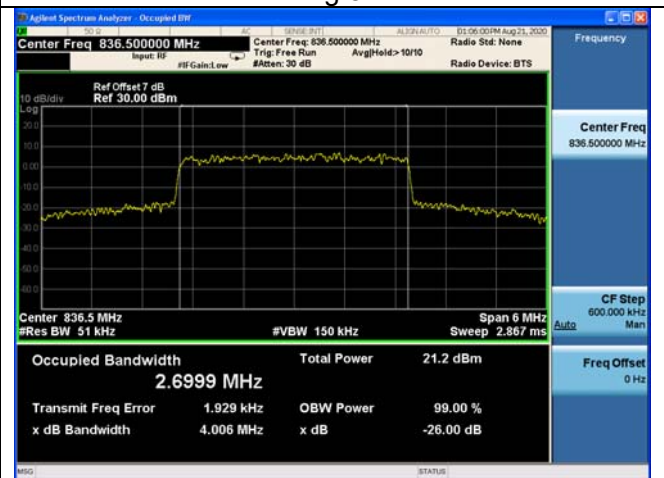


Fig.10

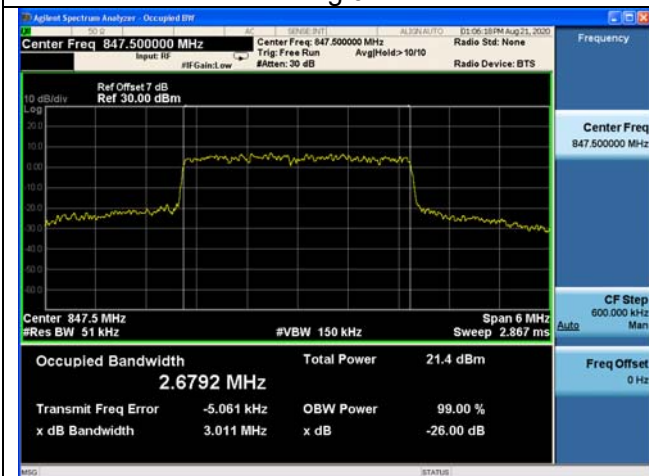


Fig.11



Fig.12

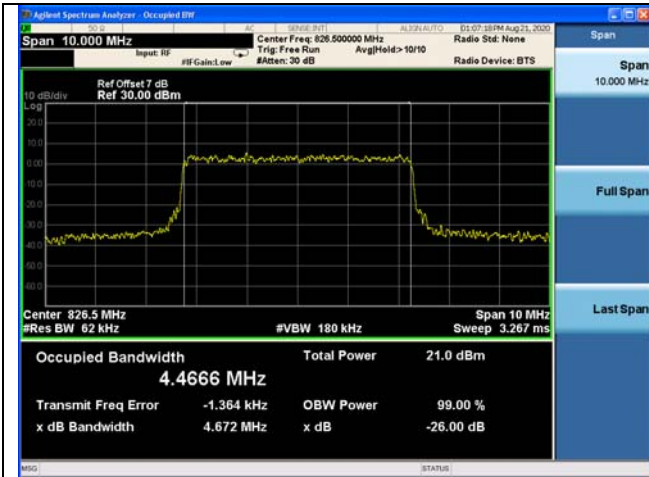


Fig.13

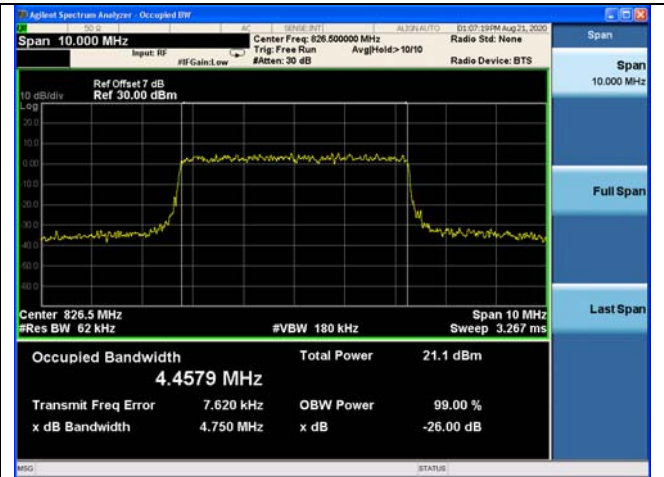


Fig.14

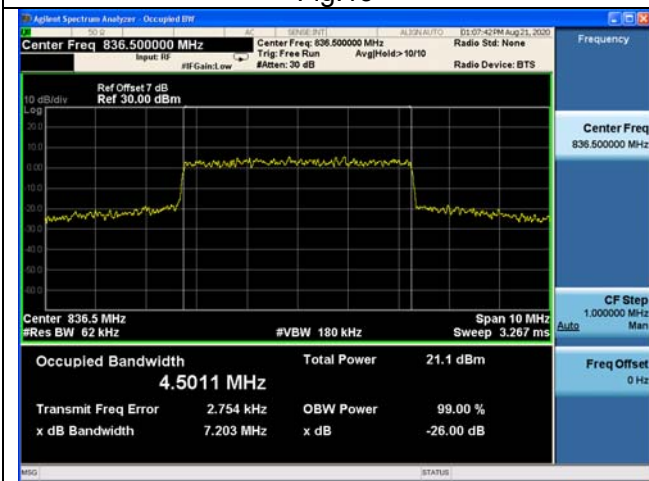


Fig.15

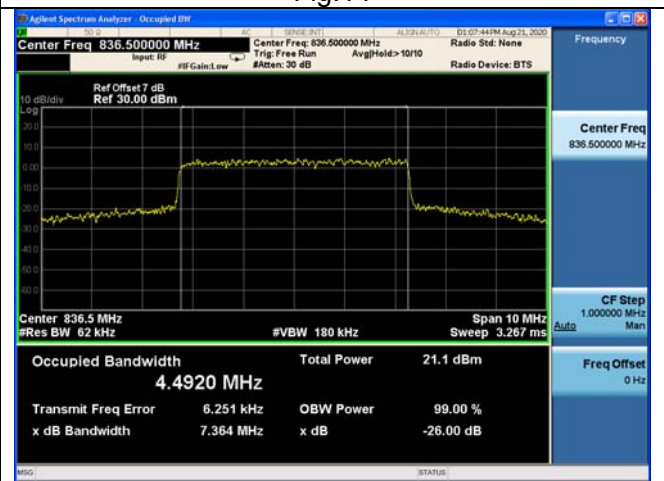


Fig.16

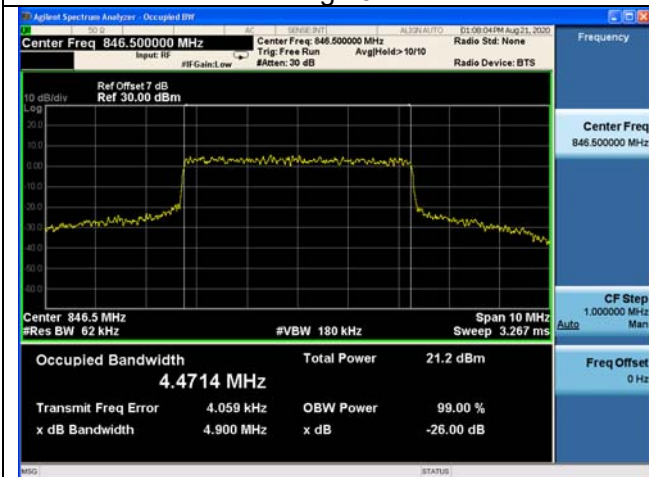


Fig.17

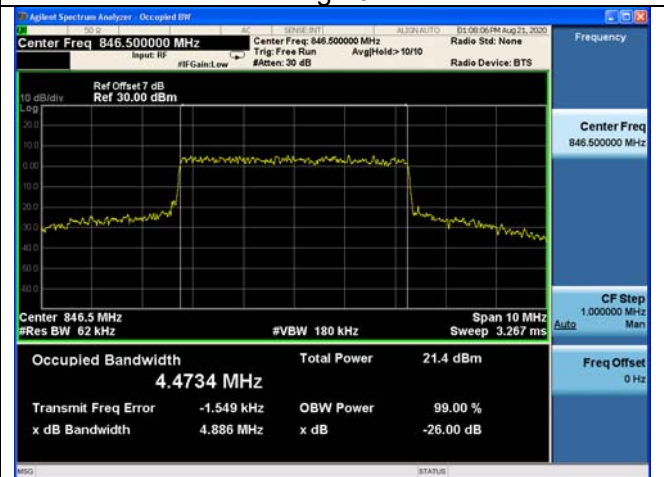


Fig.18



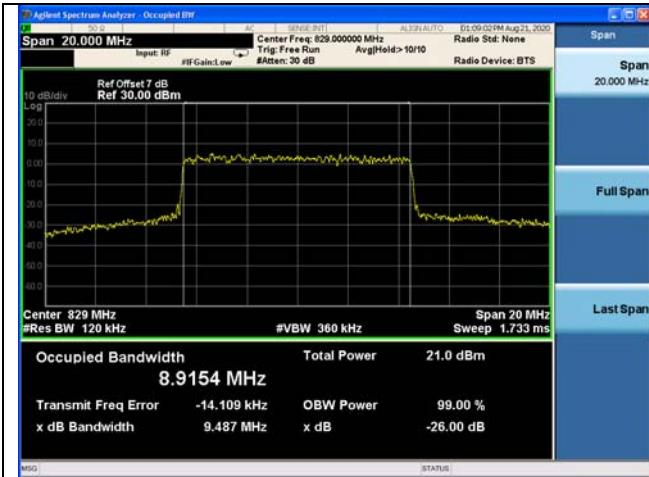


Fig.19



Fig.20

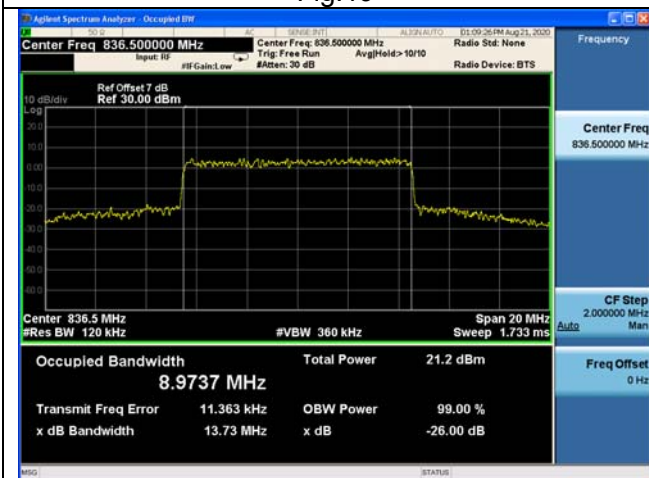


Fig.21

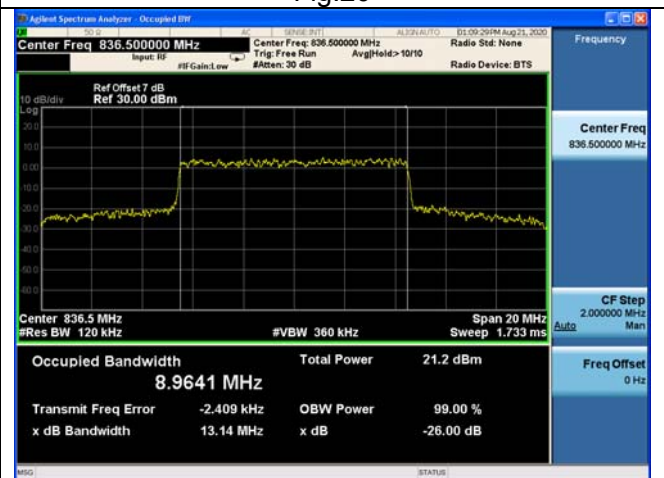


Fig.22

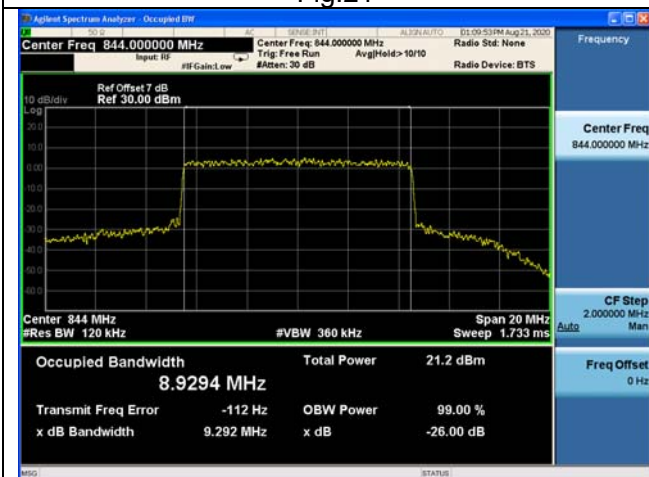


Fig.23



Fig.24

### 3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM
26	836.5	26915	1.4	1	0	Fig.1	Fig.2
			3	1	0	Fig.3	Fig.4
			5	1	0	Fig.5	Fig.6
			10	1	0	Fig.7	Fig.8

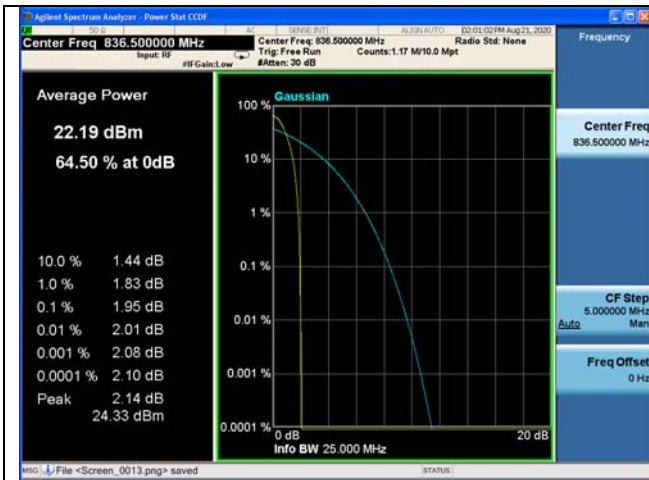


Fig.1



Fig.2

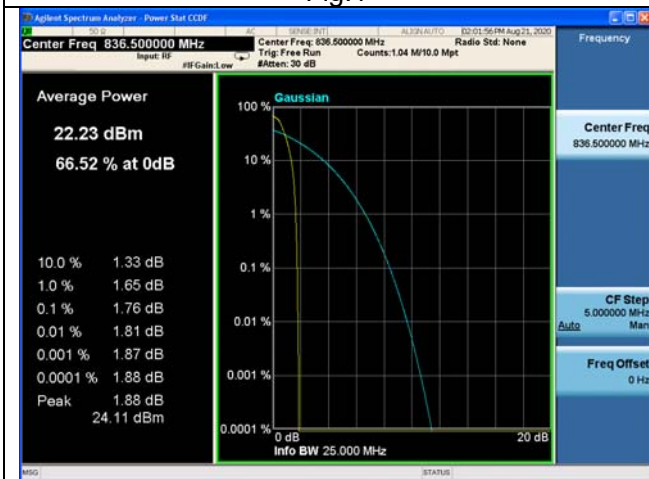


Fig.3



Fig.4

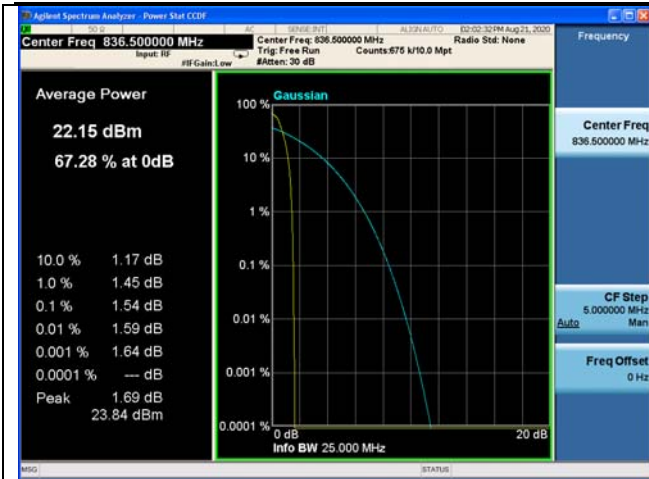


Fig.5



Fig.6

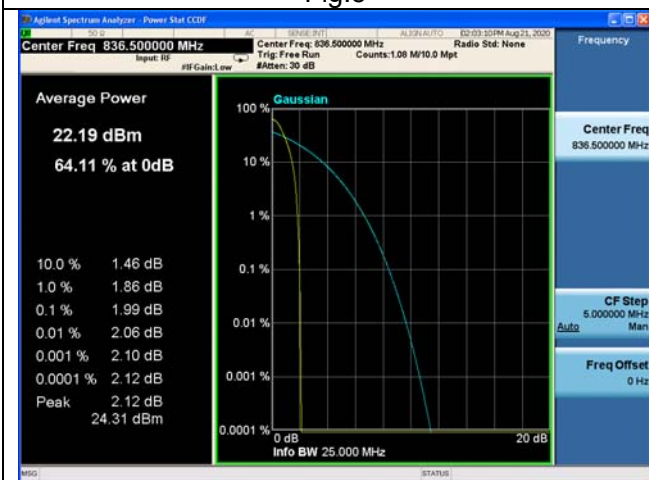


Fig.7

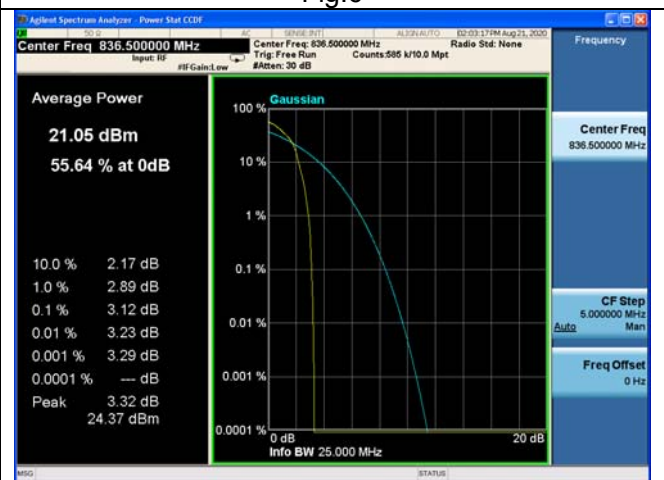


Fig.8

**4 Spurious Emissions at antenna terminal**

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
26	829	26840	10	1	0	Fig.1-2
	836.5	26915	10	1	0	Fig.3-4
	844	26990	10	1	0	Fig.5-6

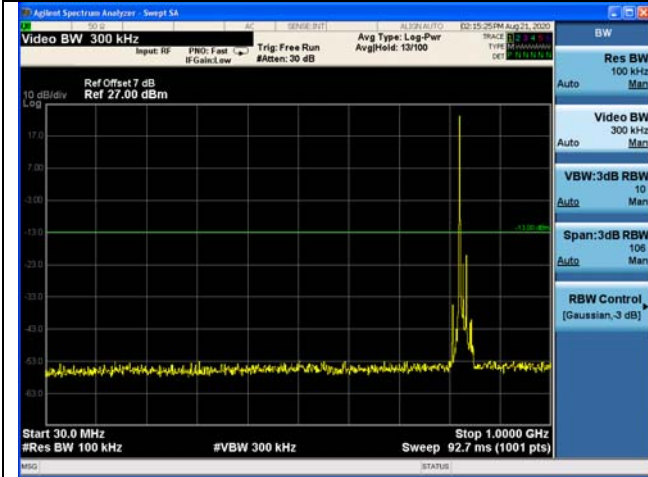


Fig.1

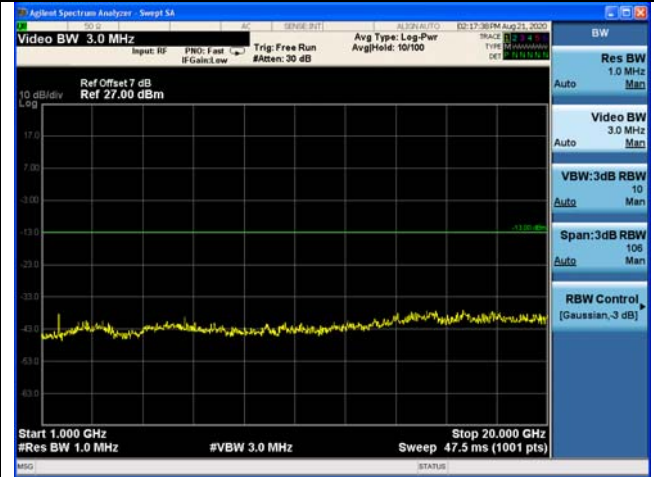


Fig.2

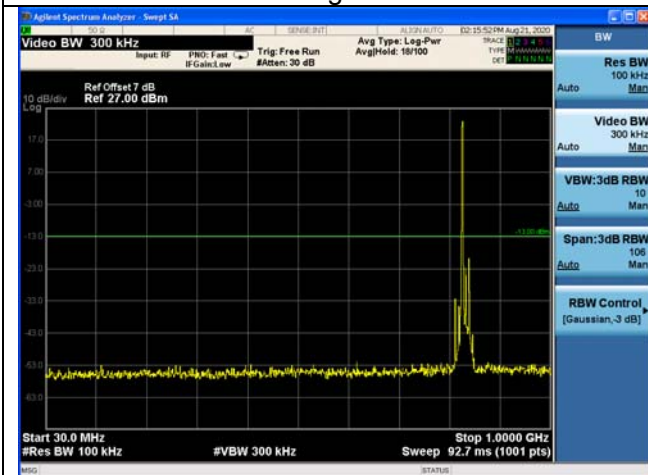


Fig.3



Fig.4

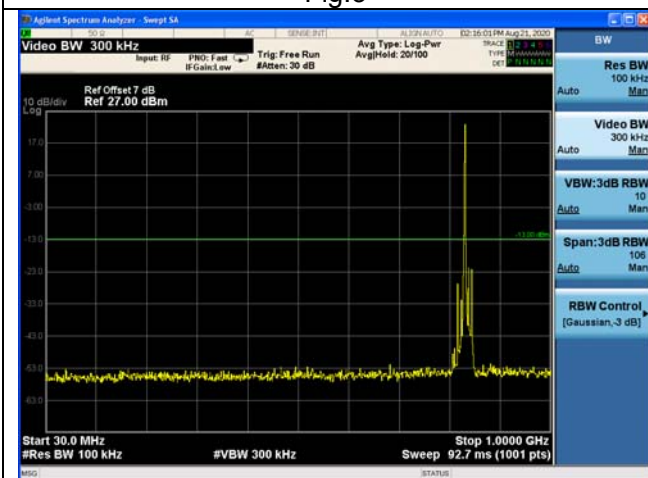


Fig.5



Fig.6

### 5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot	
						QPSK	
26	824.7	26797	1.4	1	0	Fig.1	
				6	0	Fig.2	
	848.3	27033		1	5	Fig.3	
				6	0	Fig.4	
	825.5	26805	3	1	0	Fig.5	
				15	0	Fig.6	
				847.5	27025	1	14
	15	0				Fig.8	
	826.5	26815		5	1	0	Fig.9
					25	0	Fig.10
	846.5	27015	1		24	Fig.11	
			25		0	Fig.12	
	829	26840	10	1	0	Fig.13	
				50	0	Fig.14	
	844	26990		1	49	Fig.15	
				50	0	Fig.16	

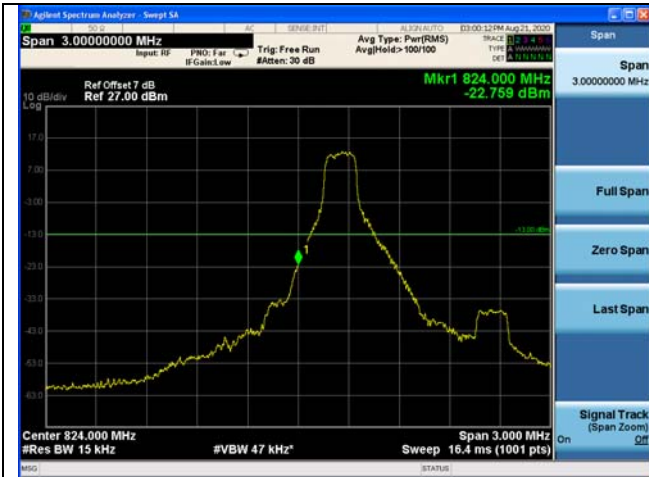


Fig.1



Fig.2

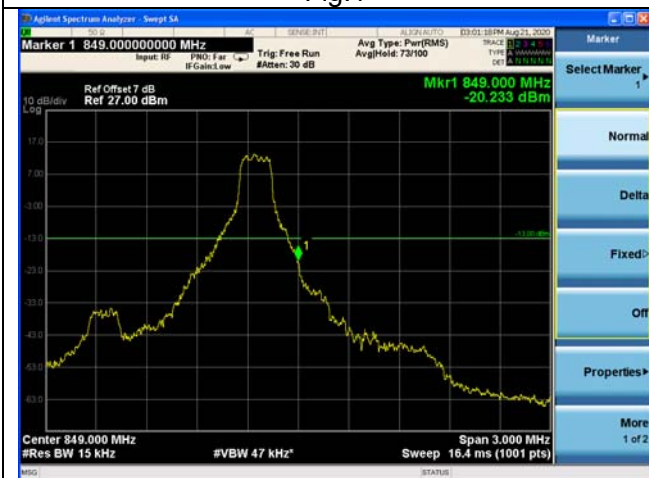


Fig.3



Fig.4

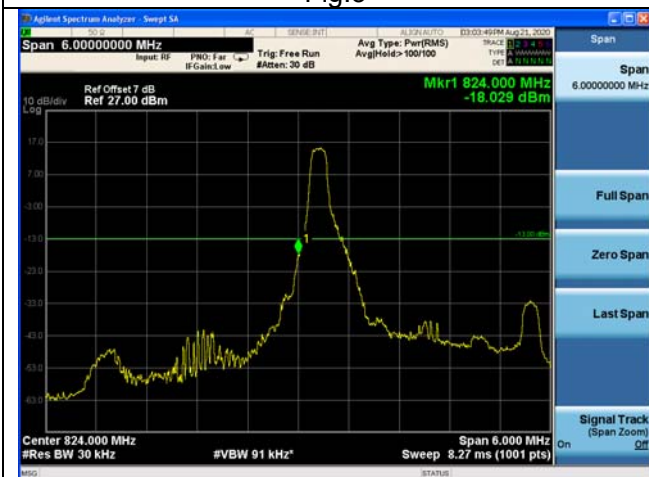


Fig.5

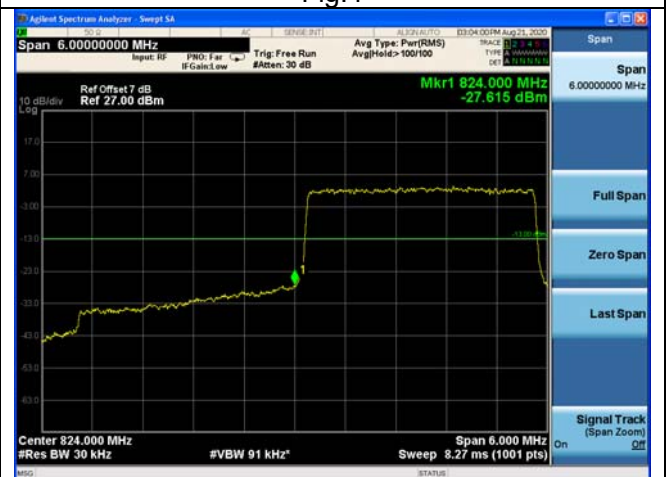


Fig.6

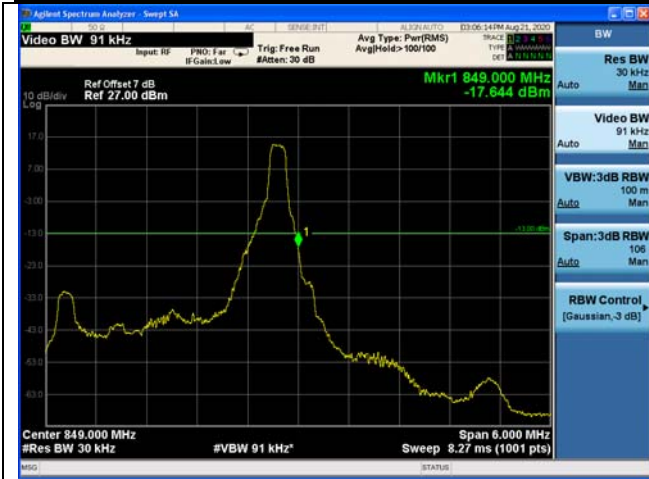


Fig.7



Fig.8



Fig.9

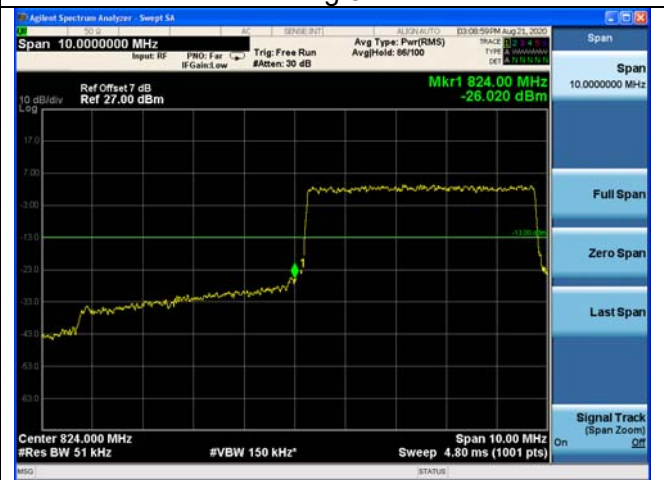


Fig.10

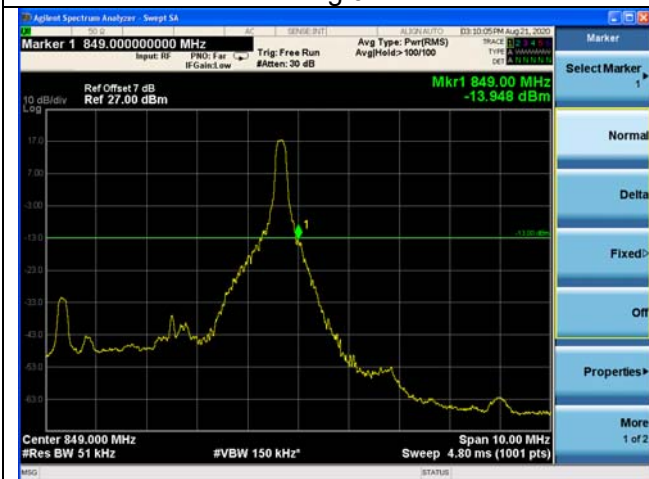


Fig.11



Fig.12

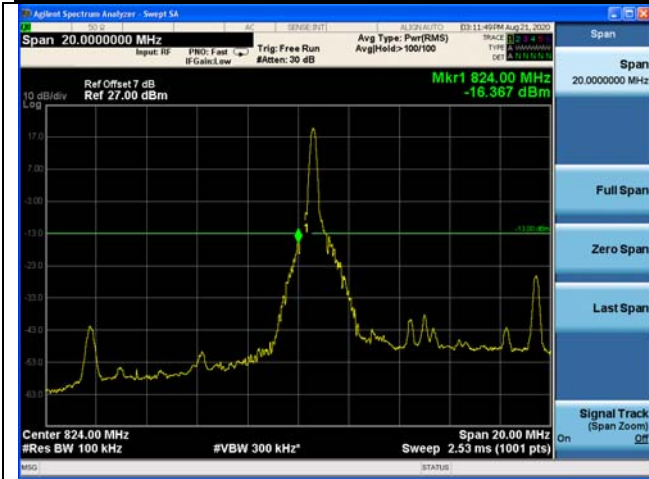


Fig.13



Fig.14

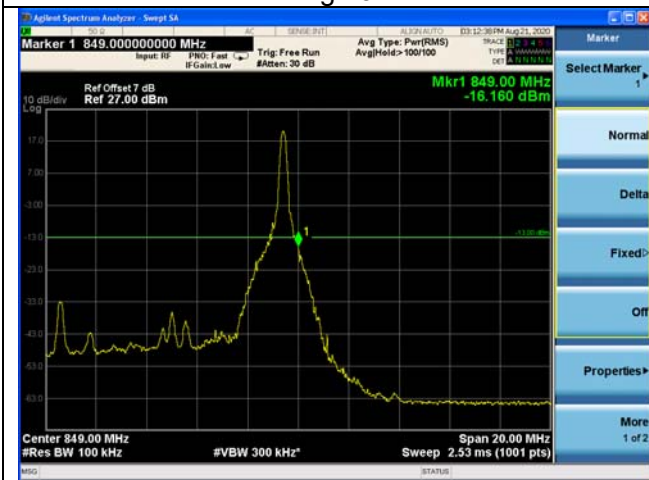


Fig.15



Fig.16



## 6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band26 Low Channel			
		1.4M	3M	5M	10M
-20	NV	0.076	-0.029	-0.073	-0.047
-10	NV	0.005	-0.004	-0.049	-0.046
0	NV	-0.034	0.001	0.030	0.048
+10	NV	-0.025	-0.040	0.046	-0.076
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.042	-0.049	0.029	0.025
+40	NV	-0.057	-0.009	0.059	0.063
+50	NV	0.015	0.034	0.033	-0.001
+20	LV	0.085	0.026	0.019	0.071
+20	HV	0.077	-0.023	-0.012	0.081

Temperature(°C)	Voltage	Test Result (ppm) Band26 High Channel			
		1.4M	3M	5M	10M
-20	NV	0.084	-0.066	-0.076	-0.085
-10	NV	-0.042	0.045	0.008	-0.044
0	NV	0.040	0.028	-0.037	0.033
+10	NV	0.074	-0.033	-0.068	0.075
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.057	-0.087	0.025	-0.005
+40	NV	-0.021	0.084	0.037	-0.006
+50	NV	-0.008	-0.037	-0.005	-0.023
+20	LV	0.072	-0.018	0.082	0.018
+20	HV	-0.077	-0.071	-0.070	0.082