

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	22.95
				1	5	22.95
				3	2	22.02
				6	0	22.12
	836.5	26915		1	0	22.87
				1	5	22.92
				3	2	22.09
				6	0	22.10
	848.3	27033		1	0	22.92
				1	5	22.92
				3	2	22.02
				6	0	22.02
16QAM	824.7	26797	1.4	1	0	22.48
				1	5	22.40
				3	2	21.16
				6	0	21.04
	836.5	26915		1	0	22.46
				1	5	22.45
				3	2	21.15
				6	0	21.12
	848.3	27033		1	0	22.44
				1	5	22.41
				3	2	21.10
				6	0	21.10
64QAM	824.7	26797	1.4	1	0	22.46
				1	5	22.43
				3	2	21.14
				6	0	21.15
	836.5	26915		1	0	22.49
				1	5	22.47
				3	2	21.11
				6	0	21.06
	848.3	27033		1	0	22.52
				1	5	22.54
				3	2	21.04
				6	0	21.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	26805	3	1	0	23.02
				1	14	22.91
				8	4	22.00
				15	0	22.10
	836.5	26915		1	0	22.93
				1	14	22.94
				8	4	21.99
				15	0	22.15
	847.5	27025		1	0	22.88
				1	14	22.98
				8	4	22.06
				15	0	22.02
16QAM	825.5	26805	3	1	0	22.43
				1	14	22.41
				8	4	21.12
				15	0	21.14
	836.5	26915		1	0	22.47
				1	14	22.41
				8	4	21.03
				15	0	21.11
	847.5	27025		1	0	22.50
				1	14	22.44
				8	4	21.13
				15	0	21.03
64QAM	825.5	26805	3	1	0	22.43
				1	14	22.39
				8	4	21.02
				15	0	21.15
	836.5	26915		1	0	22.54
				1	14	22.40
				8	4	21.09
				15	0	21.00
	847.5	27025		1	0	22.47
				1	14	22.43
				8	4	21.09
				15	0	21.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	26815	5	1	0	22.99
				1	24	22.91
				12	6	21.99
				25	0	22.08
	836.5	26915		1	0	22.87
				1	24	22.97
				12	6	22.07
				25	0	22.05
	846.5	27015		1	0	22.97
				1	24	22.88
				12	6	22.02
				25	0	22.05
16QAM	826.5	26815	5	1	0	22.53
				1	24	22.46
				12	6	21.09
				25	0	21.08
	836.5	26915		1	0	22.46
				1	24	22.39
				12	6	21.08
				25	0	21.05
	846.5	27015		1	0	22.38
				1	24	22.37
				12	6	21.01
				25	0	21.13
64QAM	826.5	26815	5	1	0	22.56
				1	24	22.50
				12	6	21.13
				25	0	21.11
	836.5	26915		1	0	22.49
				1	24	22.43
				12	6	21.01
				25	0	21.00
	846.5	27015		1	0	22.51
				1	24	22.46
				12	6	21.03
				25	0	21.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	26840	10	1	0	22.89
				1	49	23.01
				24	12	21.96
				50	0	22.04
	836.5	26915		1	0	22.95
				1	49	23.01
				24	12	22.02
				50	0	22.06
	844	26990		1	0	22.90
				1	49	22.94
				24	12	22.05
				50	0	22.07
16QAM	829	26840	10	1	0	22.48
				1	49	22.53
				24	12	21.08
				50	0	21.11
	836.5	26915		1	0	22.42
				1	49	22.41
				24	12	21.08
				50	0	21.04
	844	26990		1	0	22.37
				1	49	22.47
				24	12	21.02
				50	0	21.11
64QAM	829	26840	10	1	0	22.46
				1	49	22.51
				24	12	21.04
				50	0	21.04
	836.5	26915		1	0	22.43
				1	49	22.39
				24	12	21.05
				50	0	21.09
	844	26990		1	0	22.42
				1	49	22.55
				24	12	21.07
				50	0	21.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	831.5	26865	15	1	0	23.03
				1	74	23.02
				40	18	22.08
				75	0	22.12
	836.5	26915		1	0	23.01
				1	74	23.02
				40	18	22.13
				75	0	22.17
	841.5	26965		1	0	23.02
				1	74	23.01
				40	18	22.16
				75	0	22.15
16QAM	831.5	26865	15	1	0	22.55
				1	74	22.54
				40	18	21.17
				75	0	21.16
	836.5	26915		1	0	22.54
				1	74	22.53
				40	18	21.16
				75	0	21.14
	841.5	26965		1	0	22.52
				1	74	22.48
				40	18	21.16
				75	0	21.17
64QAM	831.5	26865	15	1	0	22.58
				1	74	22.52
				40	18	21.14
				75	0	21.16
	836.5	26915		1	0	22.54
				1	74	22.52
				40	18	21.14
				75	0	21.15
	841.5	26965		1	0	22.54
				1	74	22.56
				40	18	21.15
				75	0	21.13

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	
26	824.7	26797	1.4	6	0	1.0808	Fig.1	1.0807	Fig.2	1.0780	Fig.3
	836.5	26915		6	0	1.0799	Fig.4	1.0786	Fig.5	1.0765	Fig.6
	848.3	27033		6	0	1.0800	Fig.7	1.0789	Fig.8	1.0827	Fig.9
	825.5	26805	3	15	0	2.6883	Fig.10	2.6791	Fig.11	2.6860	Fig.12
	836.5	26915		15	0	2.6843	Fig.13	2.6763	Fig.14	2.6854	Fig.15
	847.5	27025		15	0	2.6793	Fig.16	2.6813	Fig.17	2.6833	Fig.18
	826.5	26815	5	25	0	4.4841	Fig.19	4.4784	Fig.20	4.4763	Fig.21
	836.5	26915		25	0	4.4731	Fig.22	4.4802	Fig.23	4.4736	Fig.24
	846.5	27015		25	0	4.4669	Fig.25	4.4755	Fig.26	4.4804	Fig.27
	829	26840	10	50	0	8.9585	Fig.28	8.9491	Fig.29	8.9591	Fig.30
	836.5	26915		50	0	8.9387	Fig.31	8.9411	Fig.32	8.9518	Fig.33
	844	26990		50	0	8.9560	Fig.34	8.9294	Fig.35	8.9384	Fig.36
	831.5	26865	15	75	0	13.427	Fig.37	13.398	Fig.38	13.405	Fig.39
	836.5	26915		75	0	13.436	Fig.40	13.441	Fig.41	13.396	Fig.42
	841.5	26965		75	0	13.418	Fig.43	13.342	Fig.44	13.379	Fig.45

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
26	824.7	26797	1.4	6	0	1.234	Fig.1	1.246	Fig.2	1.233	Fig.3
	836.5	26915		6	0	1.235	Fig.4	1.224	Fig.5	1.218	Fig.6
	848.3	27033		6	0	1.222	Fig.7	1.234	Fig.8	1.241	Fig.9
	825.5	26805	3	15	0	2.890	Fig.10	2.908	Fig.11	2.870	Fig.12
	836.5	26915		15	0	2.899	Fig.13	2.901	Fig.14	2.885	Fig.15
	847.5	27025		15	0	2.881	Fig.16	2.900	Fig.17	2.878	Fig.18
	826.5	26815	5	25	0	4.836	Fig.19	4.778	Fig.20	4.914	Fig.21
	836.5	26915		25	0	4.834	Fig.22	4.806	Fig.23	4.839	Fig.24
	846.5	27015		25	0	4.855	Fig.25	4.811	Fig.26	4.801	Fig.27
	829	26840	10	50	0	9.607	Fig.28	9.558	Fig.29	9.585	Fig.30
	836.5	26915		50	0	9.440	Fig.31	9.497	Fig.32	9.547	Fig.33
	844	26990		50	0	9.537	Fig.34	9.490	Fig.35	9.468	Fig.36
	831.5	26865	15	75	0	14.24	Fig.37	14.21	Fig.38	14.12	Fig.39
	836.5	26915		75	0	14.32	Fig.40	14.18	Fig.41	14.37	Fig.42
	841.5	26965		75	0	14.31	Fig.43	14.15	Fig.44	14.28	Fig.45

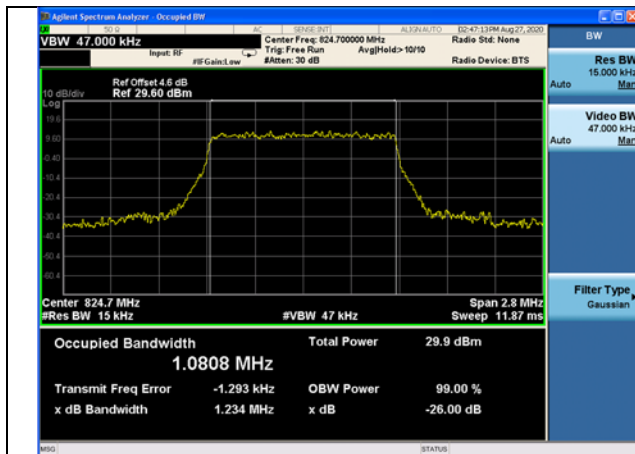


Fig.1

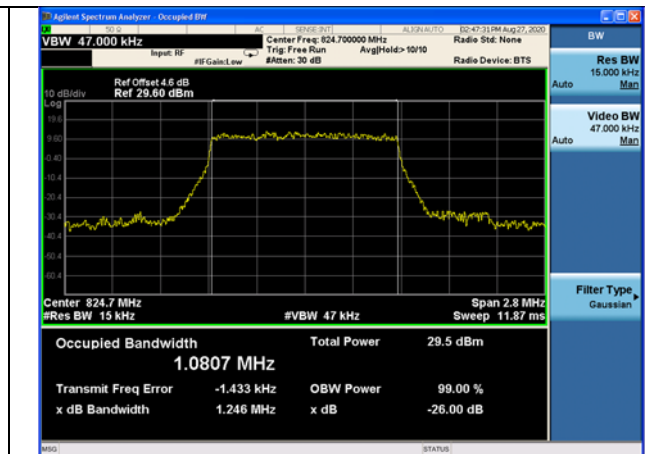


Fig.2

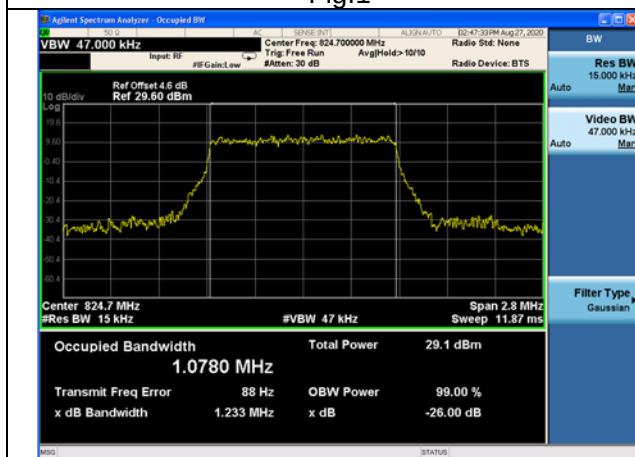


Fig.3

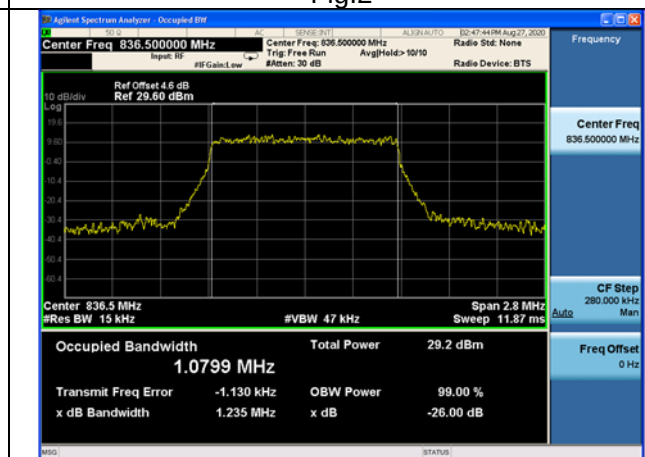


Fig.4

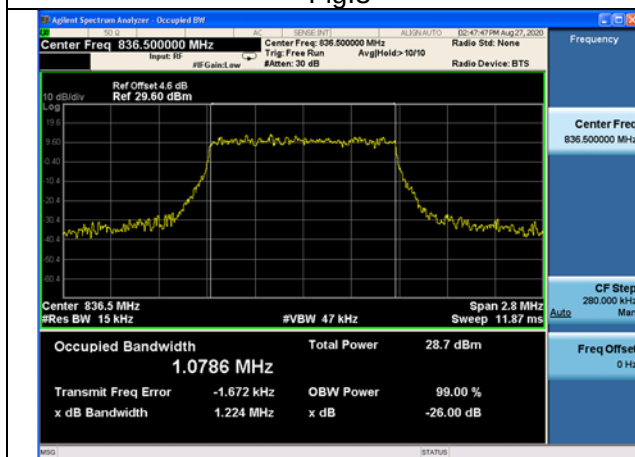


Fig.5

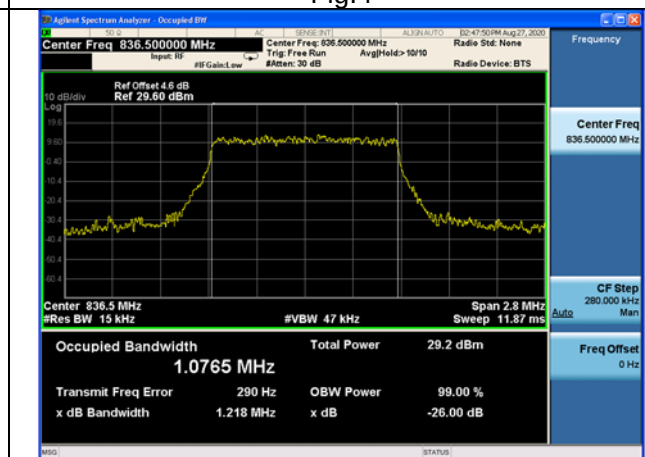


Fig.6

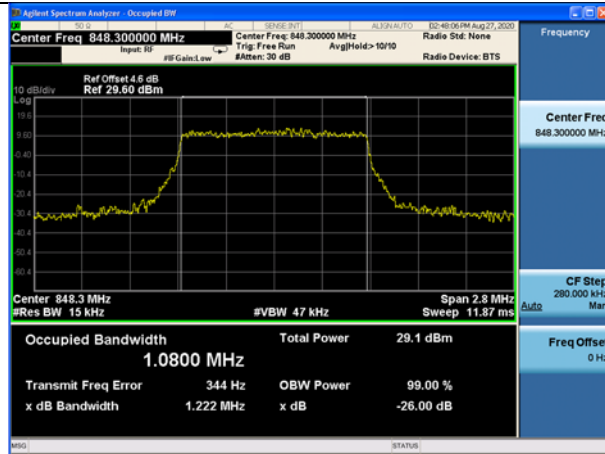


Fig.7

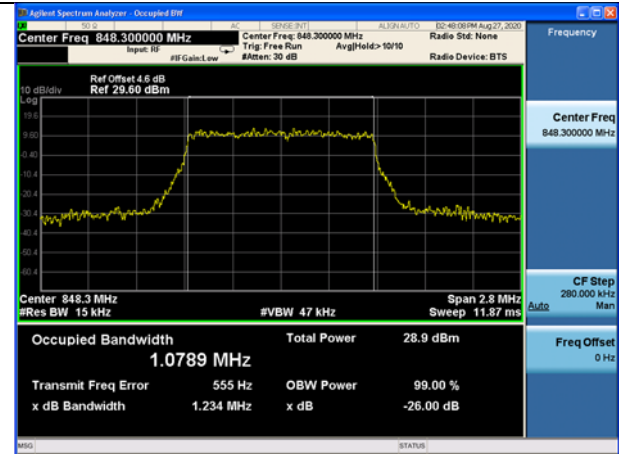


Fig.8

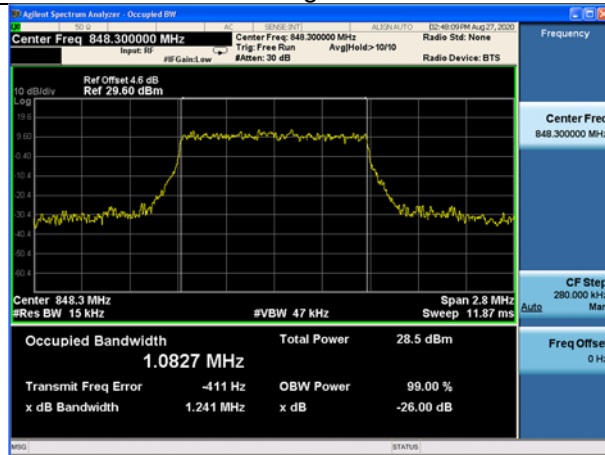


Fig.9

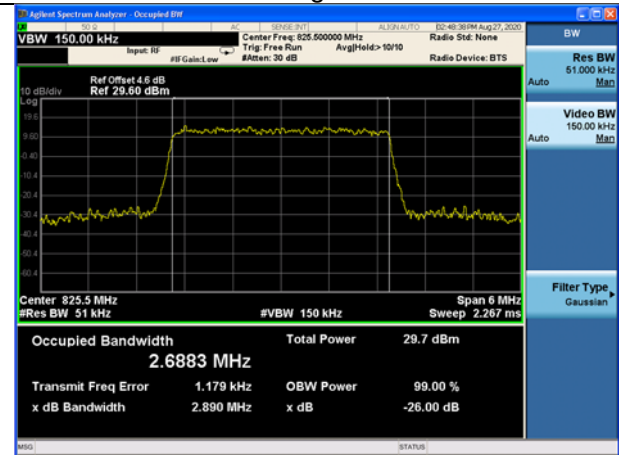


Fig.10

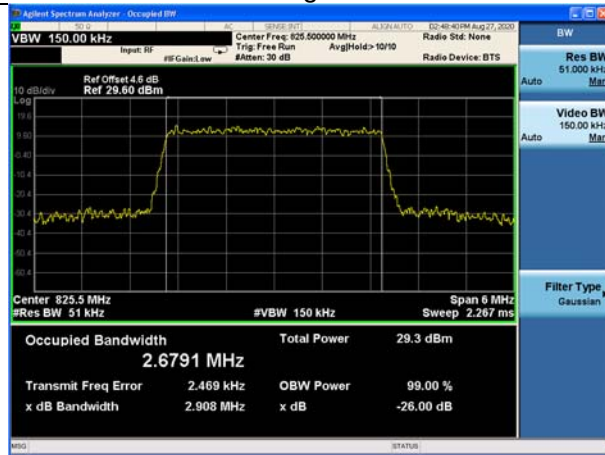


Fig.11

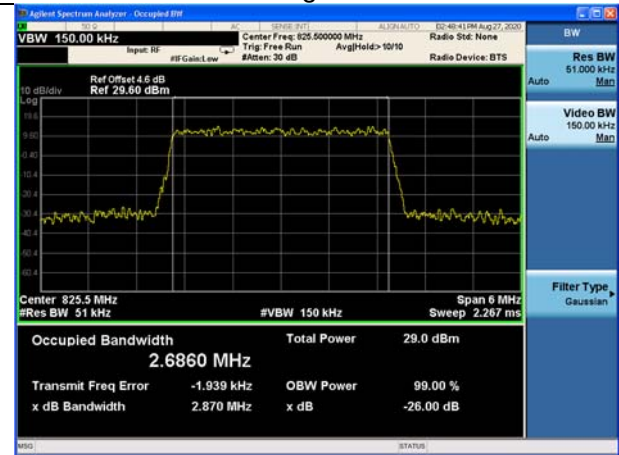


Fig.12

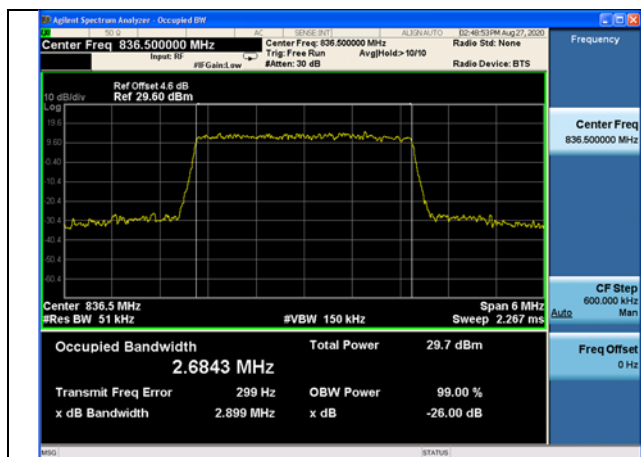


Fig.13

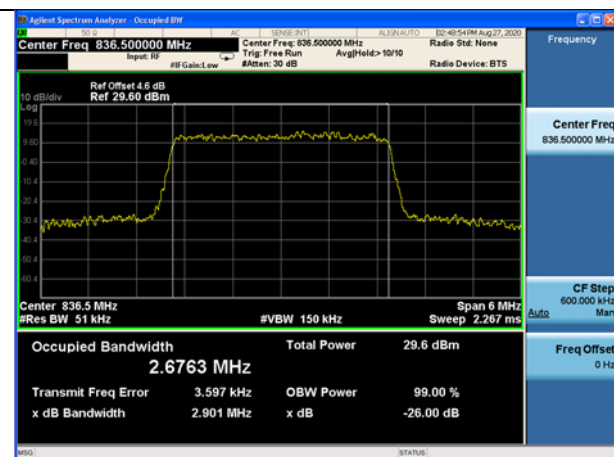


Fig.14

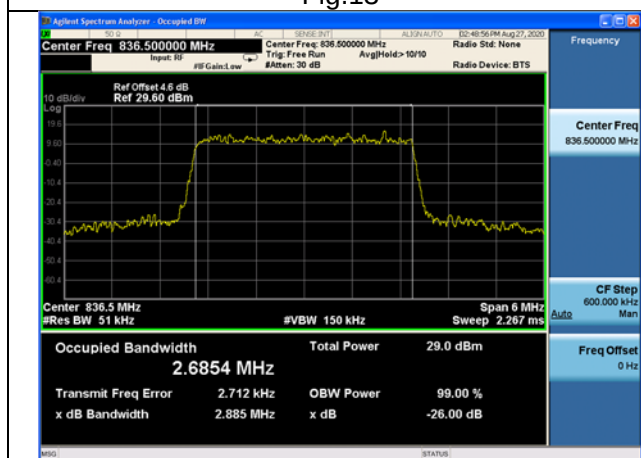


Fig.15

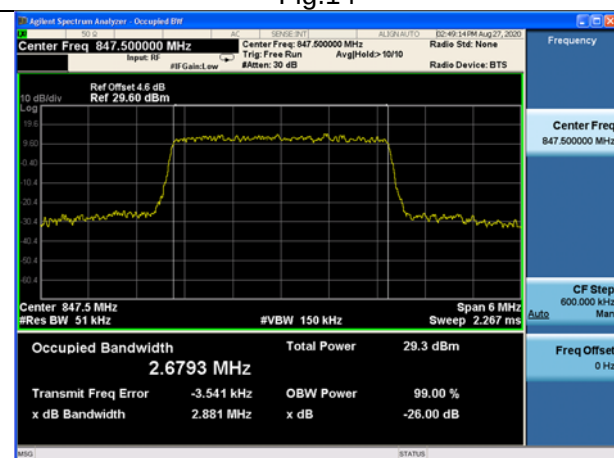


Fig.16

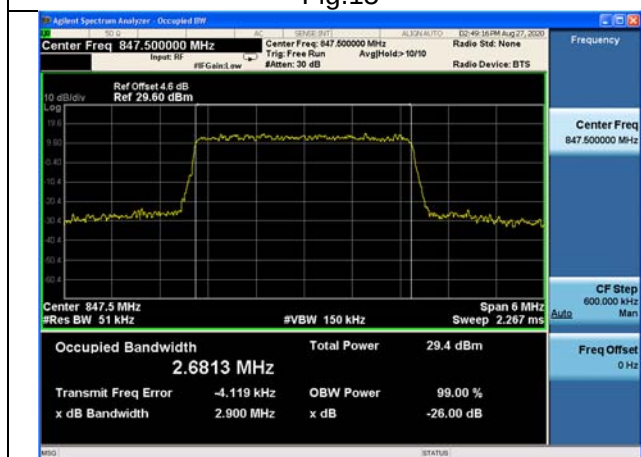


Fig.17

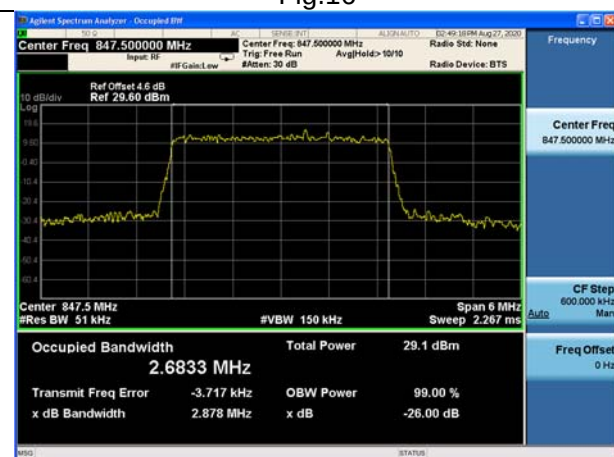


Fig.18

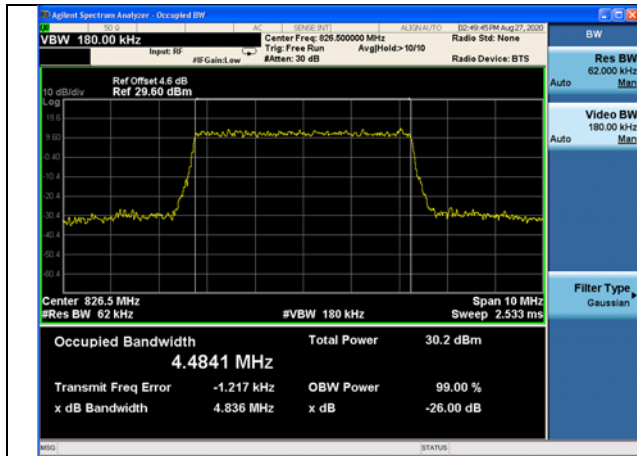


Fig.19

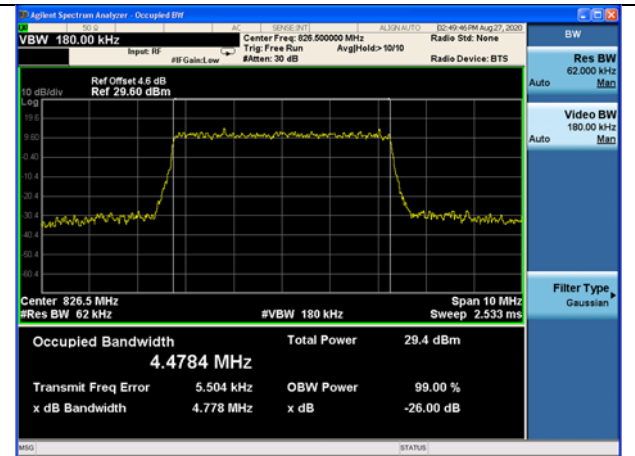


Fig.20

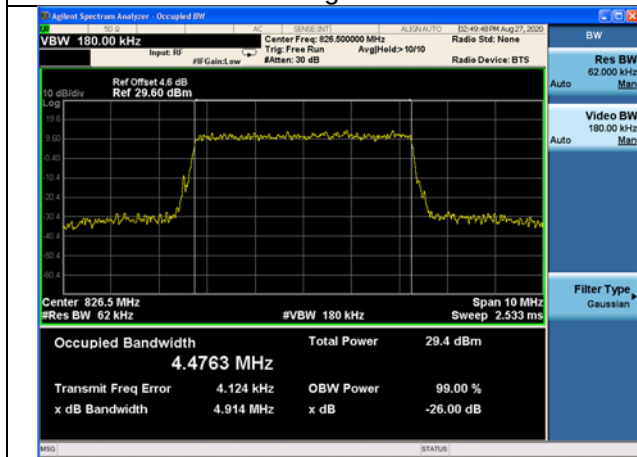


Fig.21

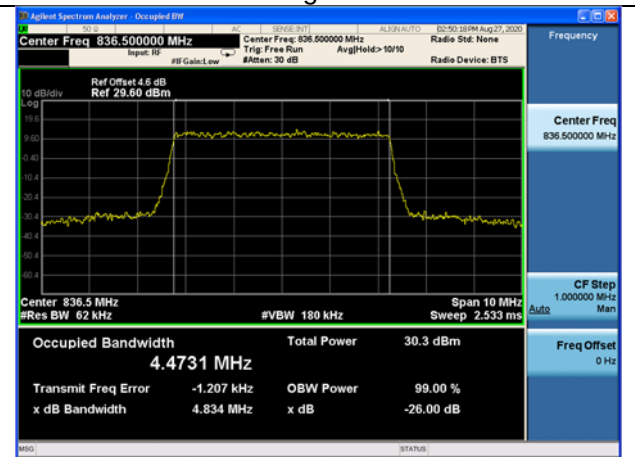


Fig.22

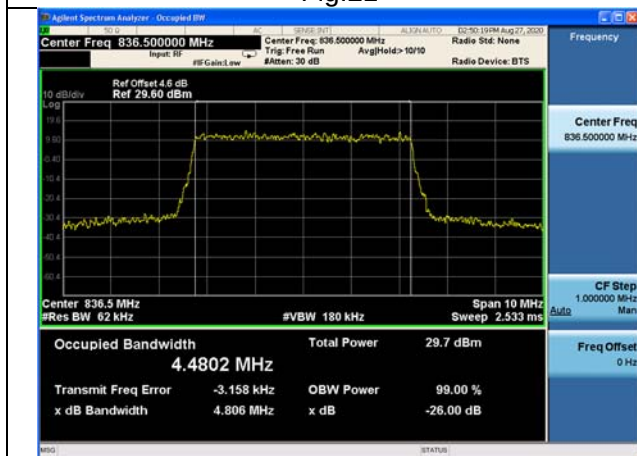


Fig.23

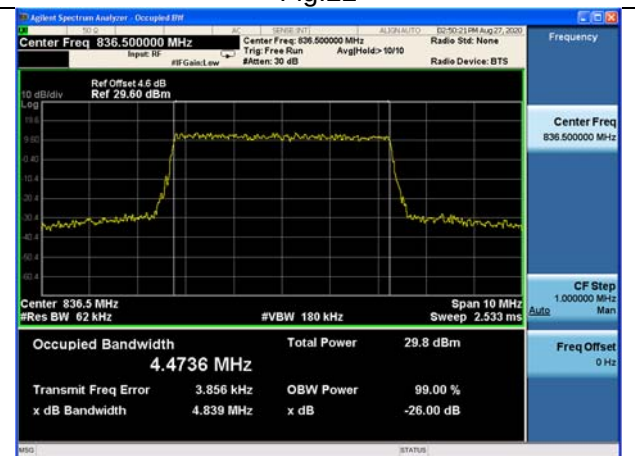


Fig.24

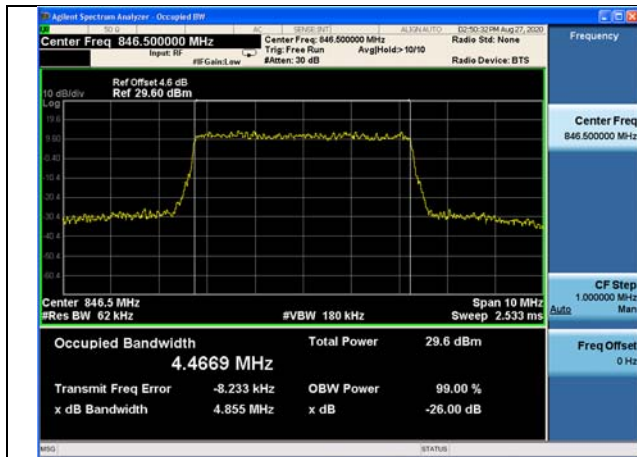


Fig.25



Fig.26

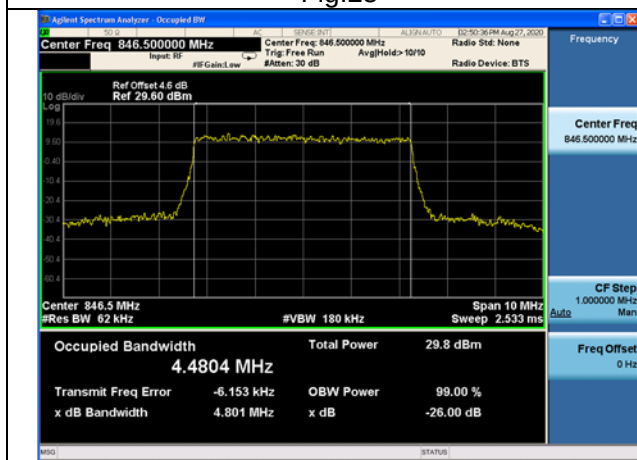


Fig.27

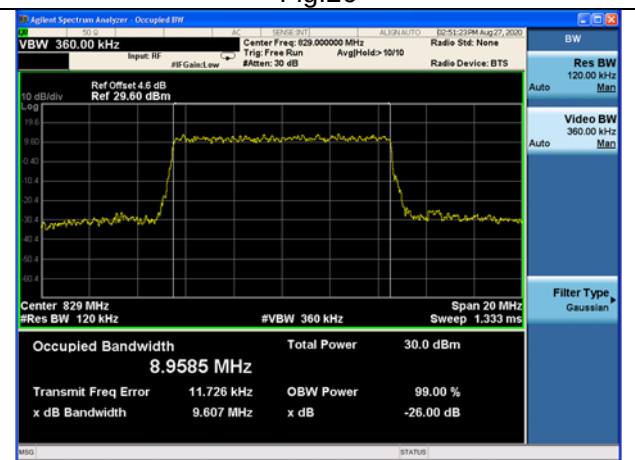


Fig.28

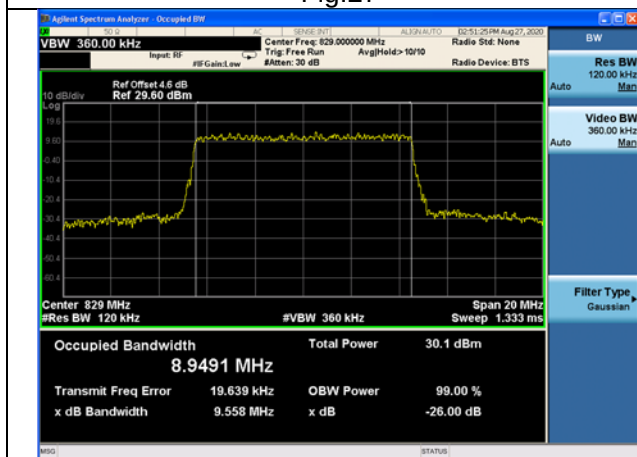


Fig.29

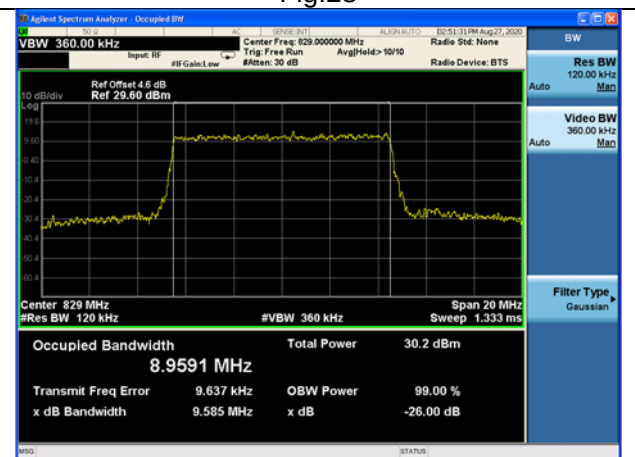


Fig.30

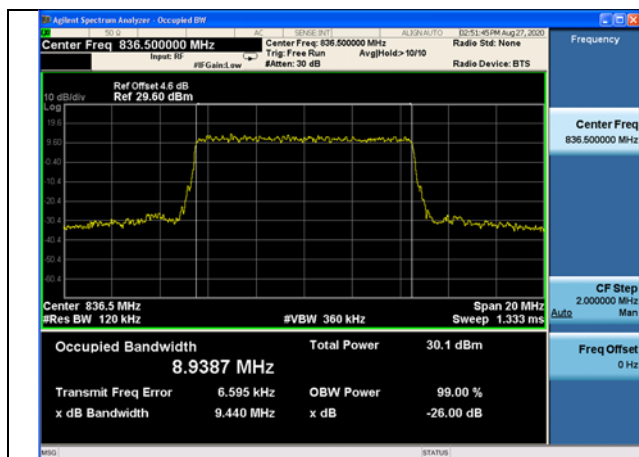


Fig.31

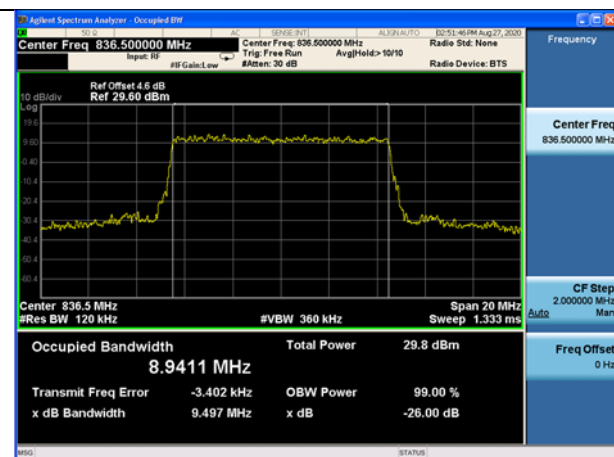


Fig.32

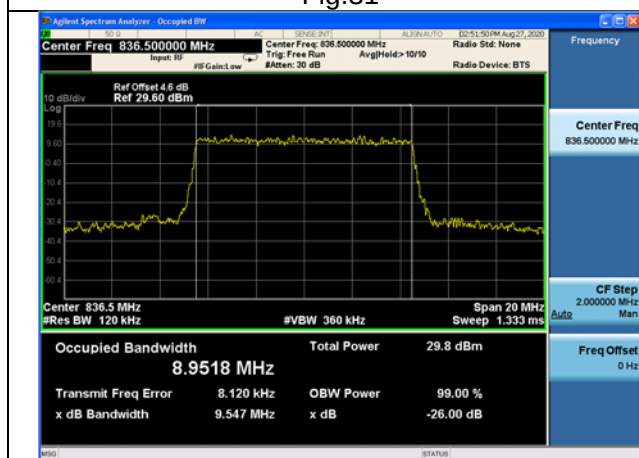


Fig.33

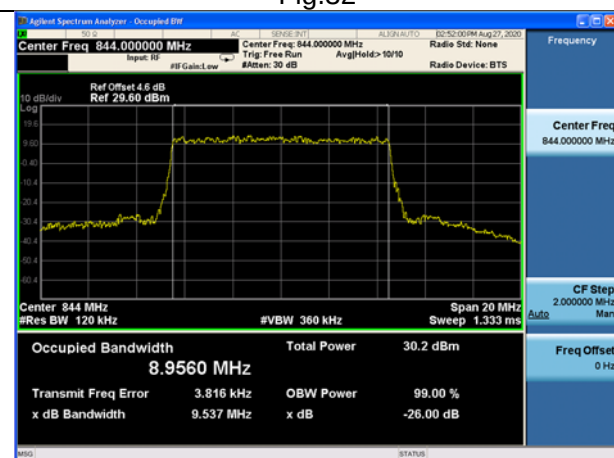


Fig.34

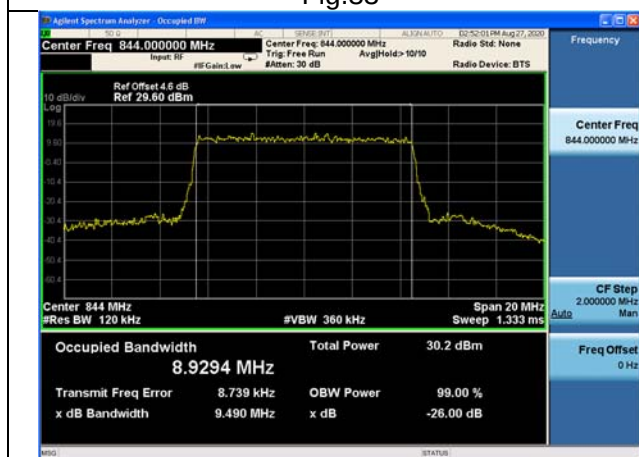


Fig.35

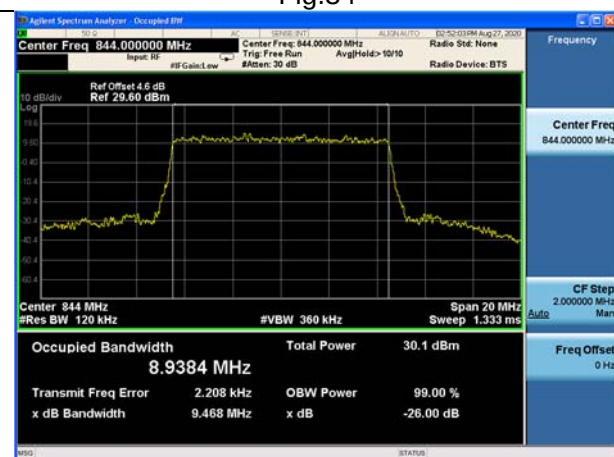


Fig.36

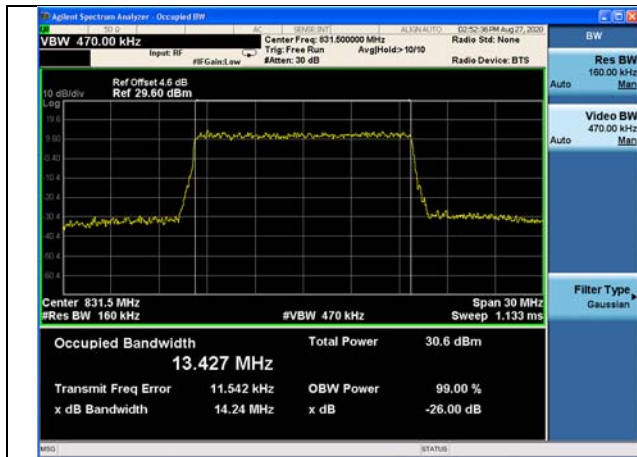


Fig.37



Fig.38

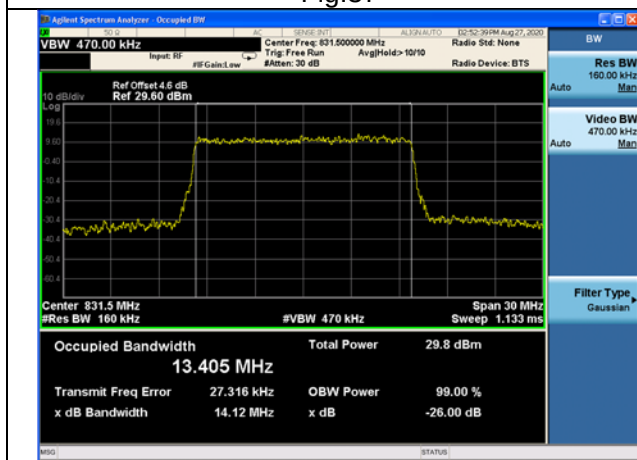


Fig.39

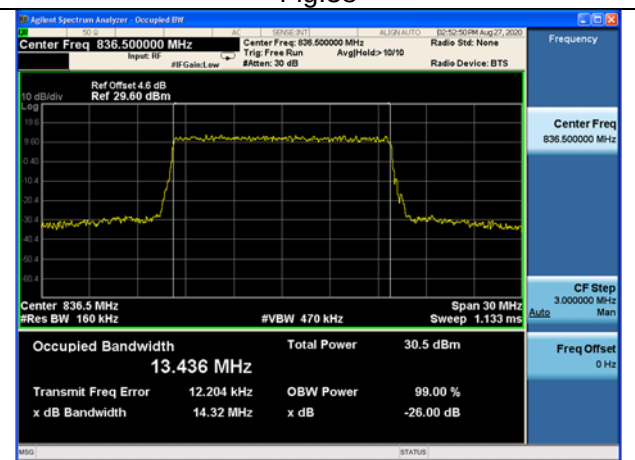


Fig.40

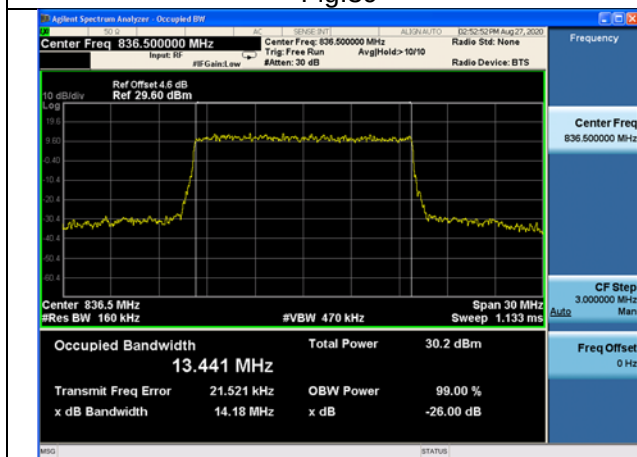


Fig.41

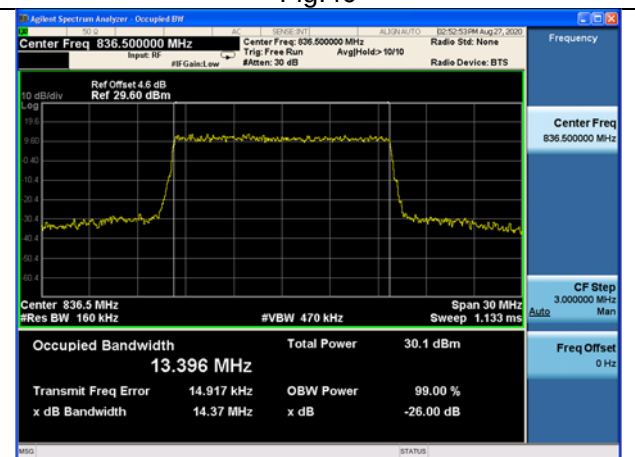


Fig.42

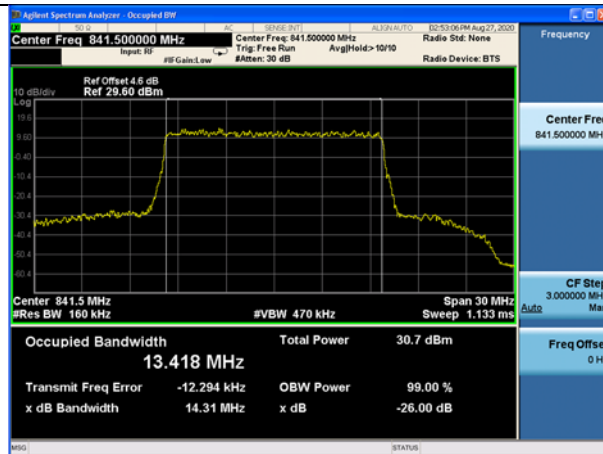


Fig.43

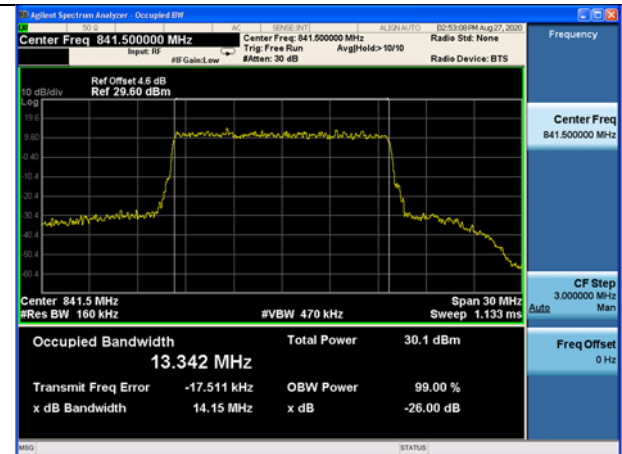


Fig.44

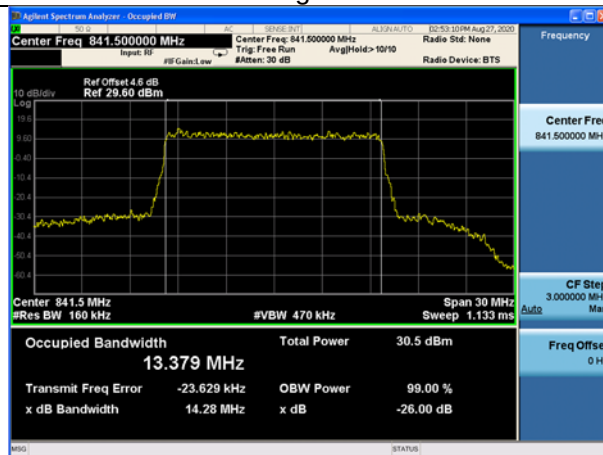


Fig.45

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
26	836.5	26915	1.4	1	0	Fig.1	Fig.2	Fig.3
			3	1	0	Fig.4	Fig.5	Fig.6
			5	1	0	Fig.7	Fig.8	Fig.9
			10	1	0	Fig.10	Fig.11	Fig.12
			15	1	0	Fig.13	Fig.14	Fig.15

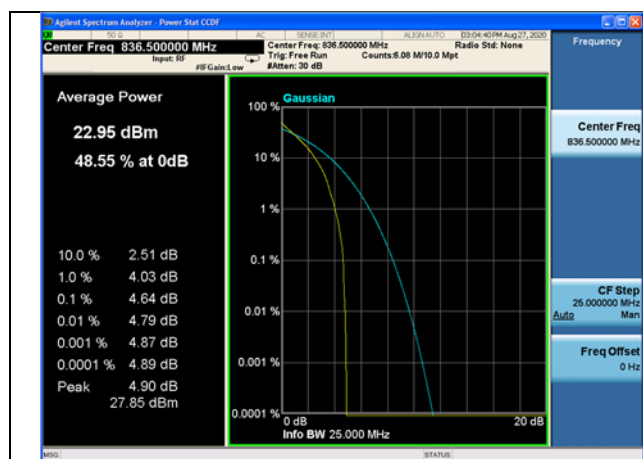


Fig.1

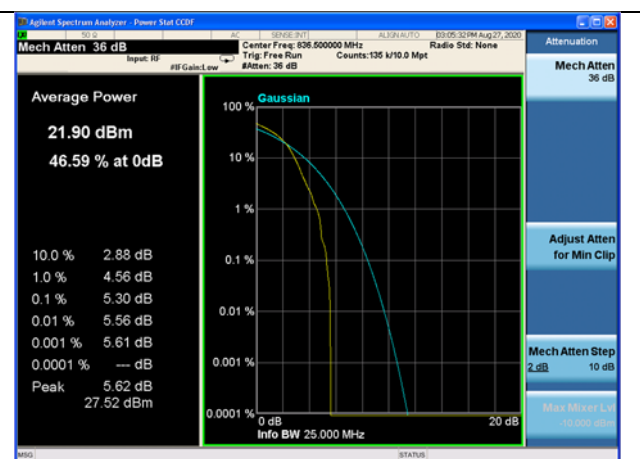


Fig.2



Fig.3



Fig.4

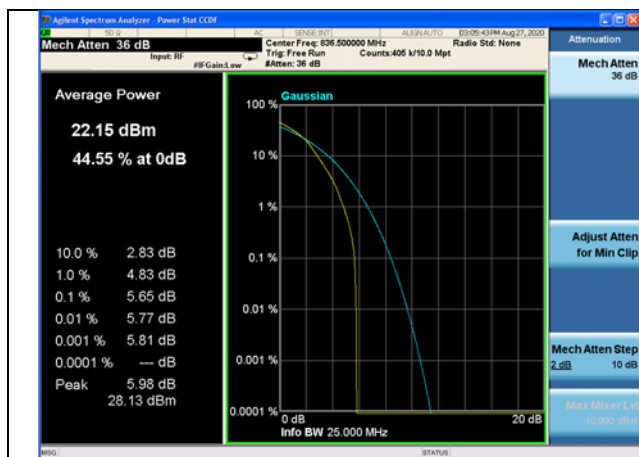


Fig.5

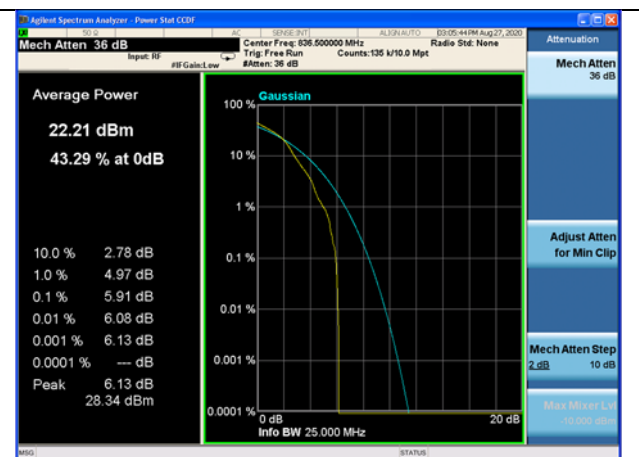


Fig.6



Fig.7

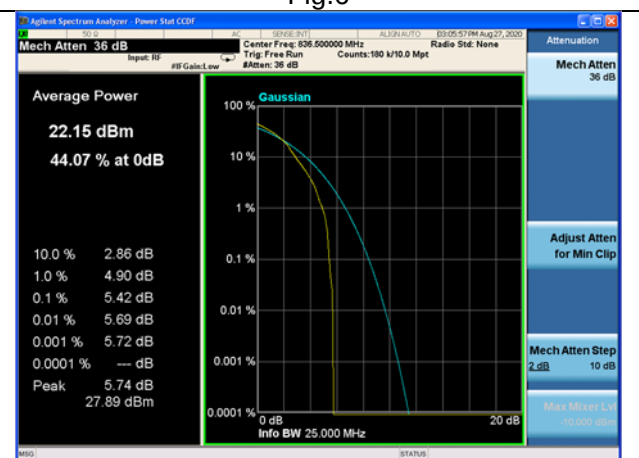


Fig.8

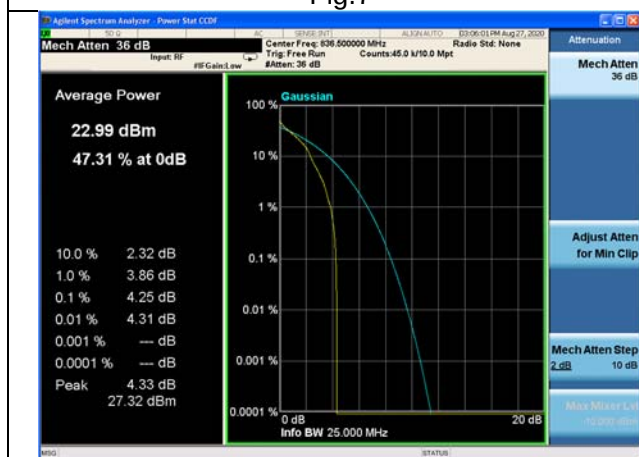


Fig.9

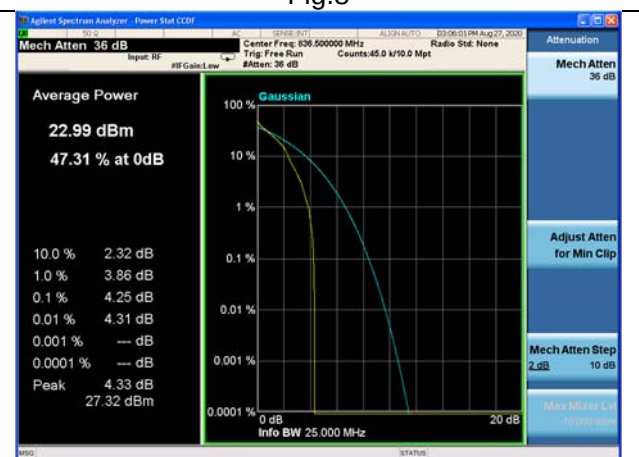


Fig.10

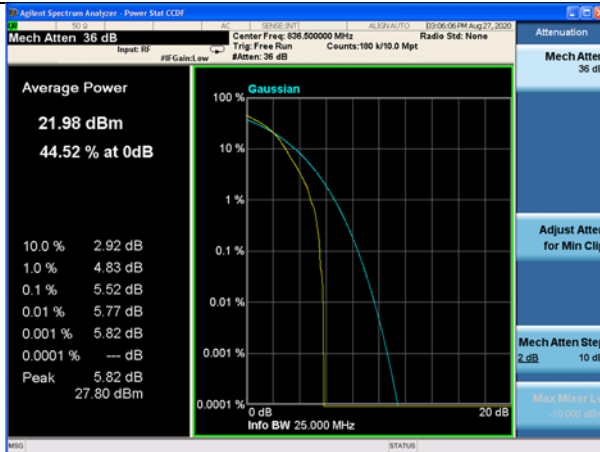


Fig.11

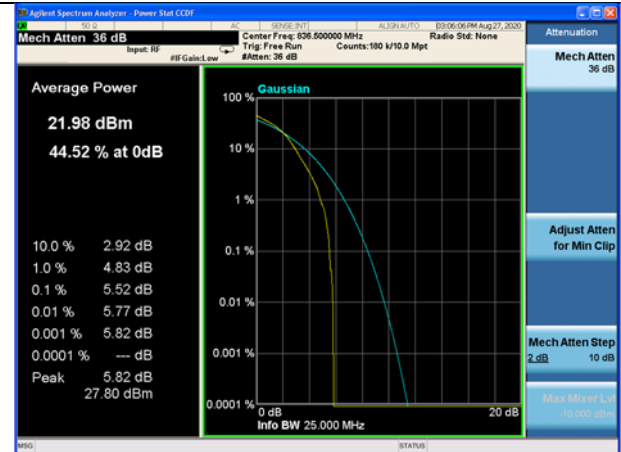


Fig.12



Fig.13



Fig.14



Fig.15

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
26	831.5	26865	15	1	0	Fig.1-2
	836.5	26915	15	1	0	Fig.3-4
	841.5	26965	15	1	0	Fig.5-6

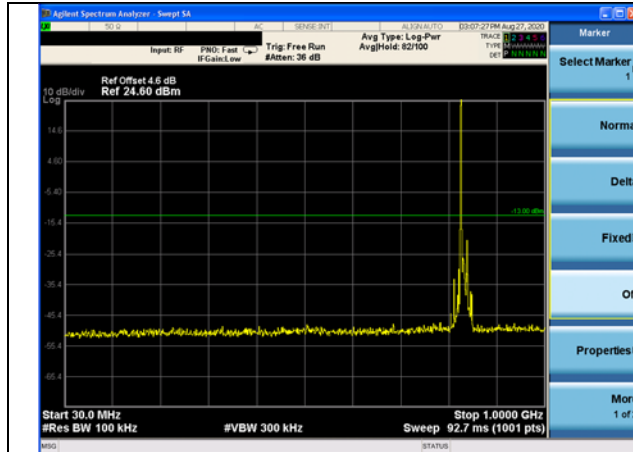


Fig.1

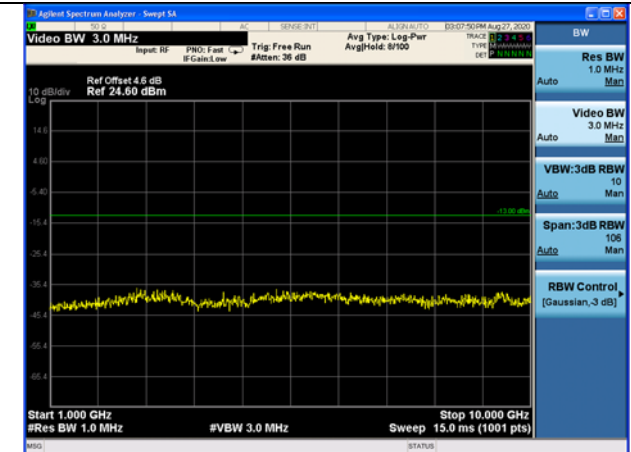


Fig.2

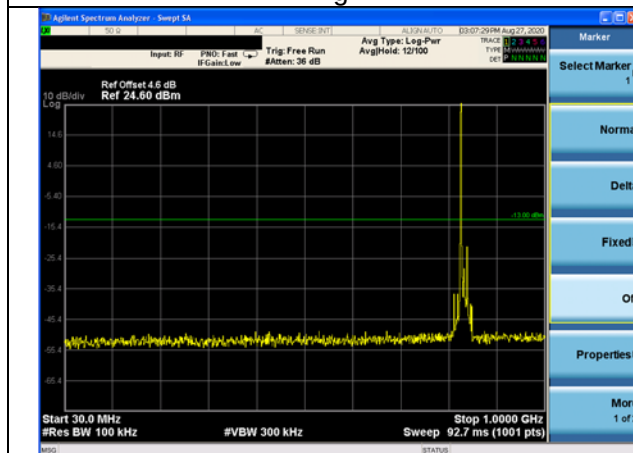


Fig.3

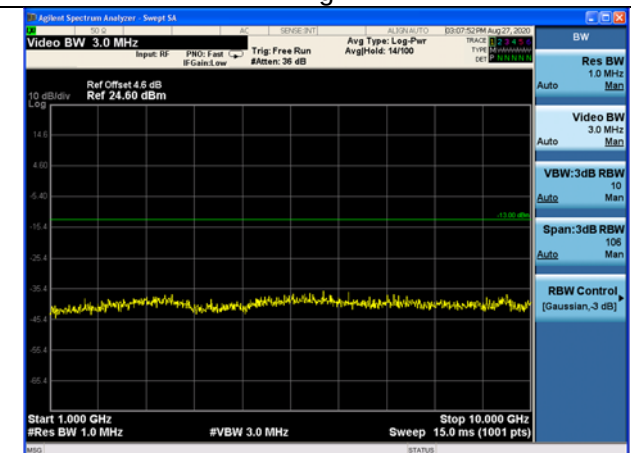


Fig.4

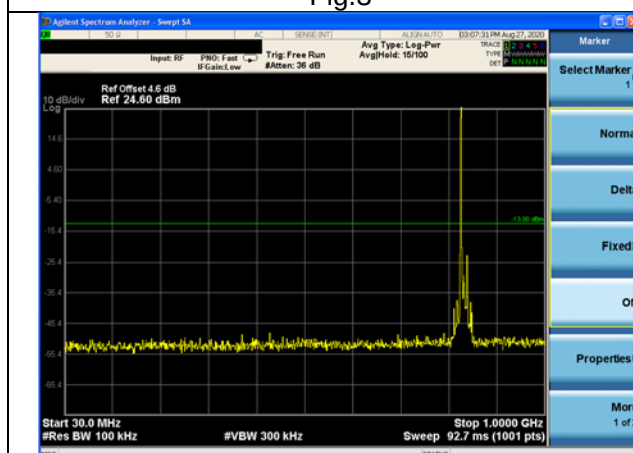


Fig.5

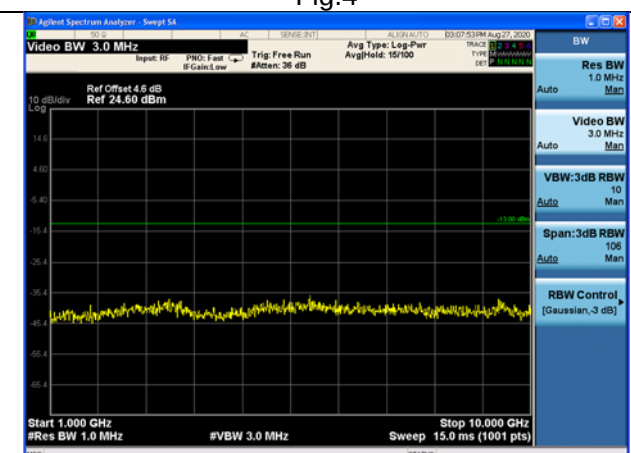


Fig.6

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	Fig.7
				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
	831.5	26865	15	1	0	Fig.17
				75	0	Fig.18
	841.5	26965		1	74	Fig.19
				75	0	Fig.20

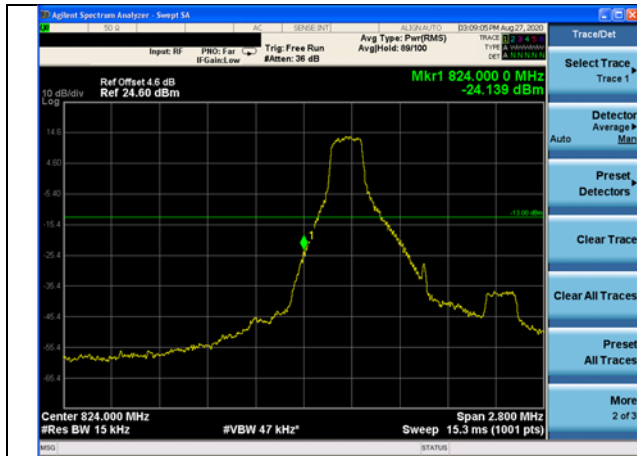


Fig.1

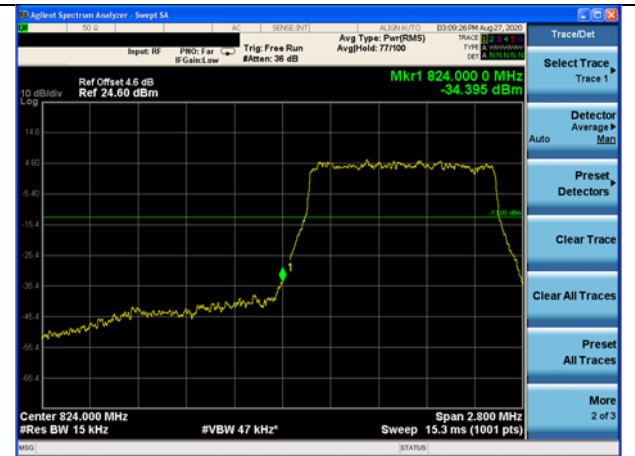


Fig.2

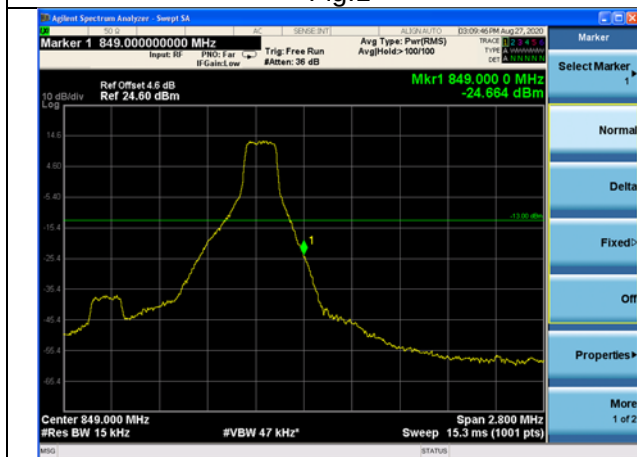


Fig.3

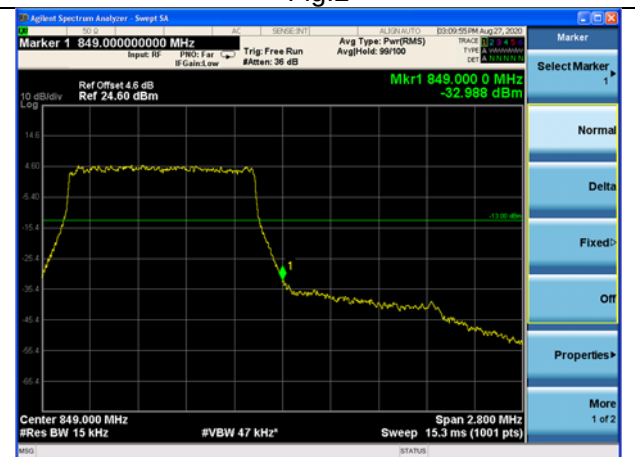


Fig.4

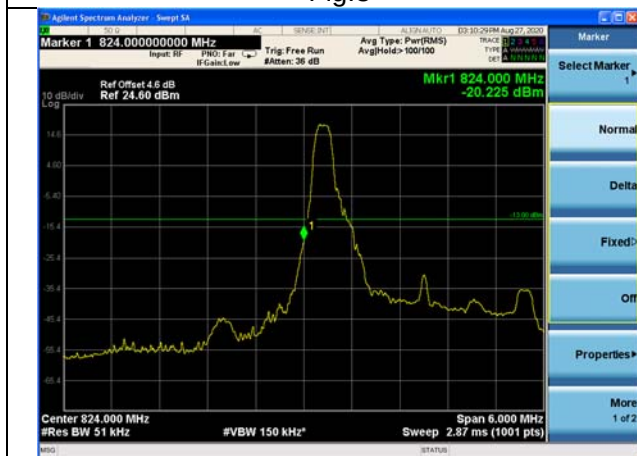


Fig.5

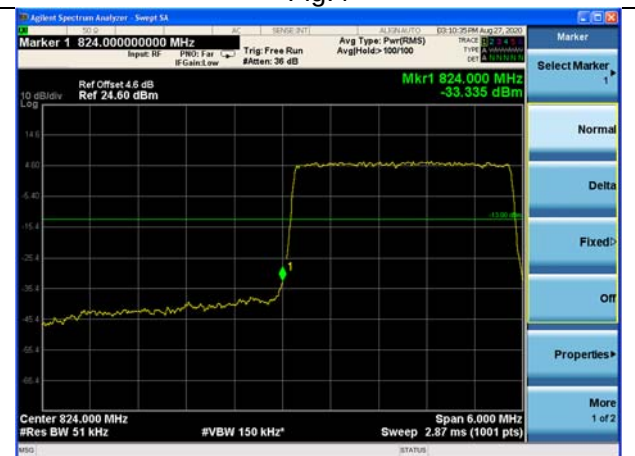


Fig.6

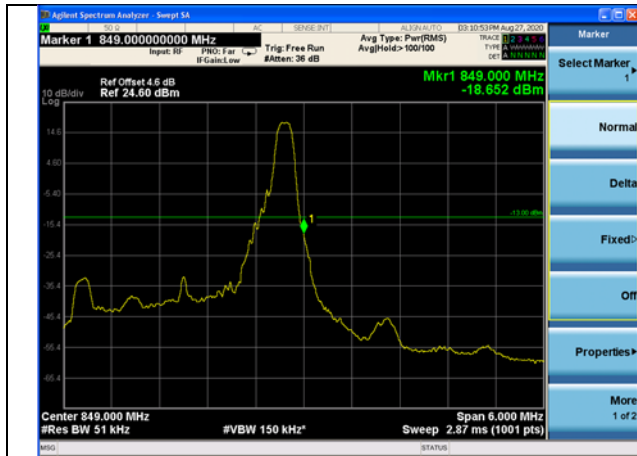


Fig.7

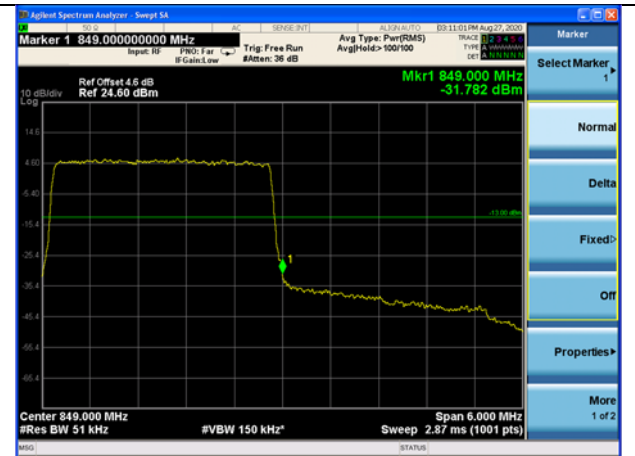


Fig.8

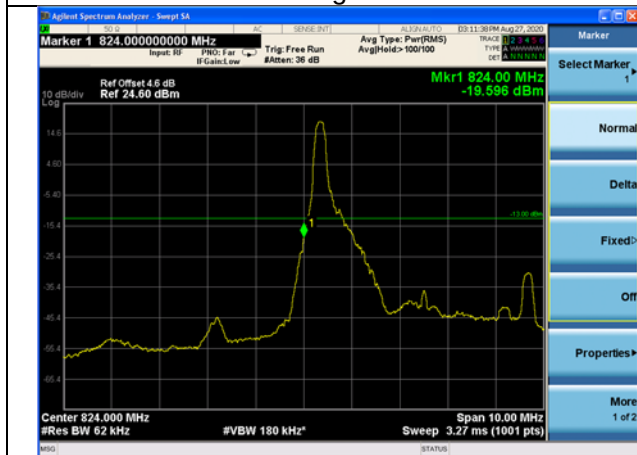


Fig.9

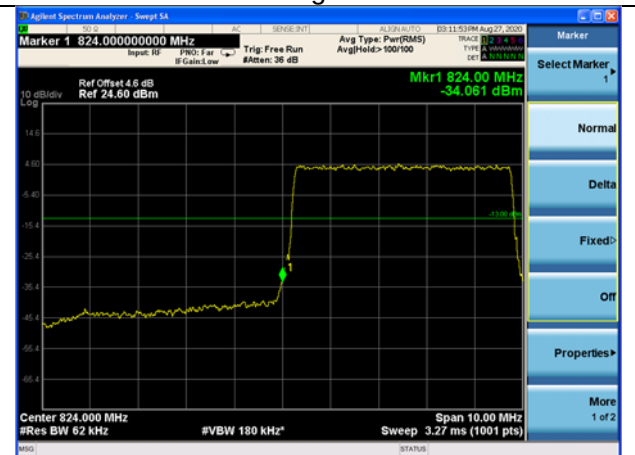


Fig.10



Fig.11



Fig.12

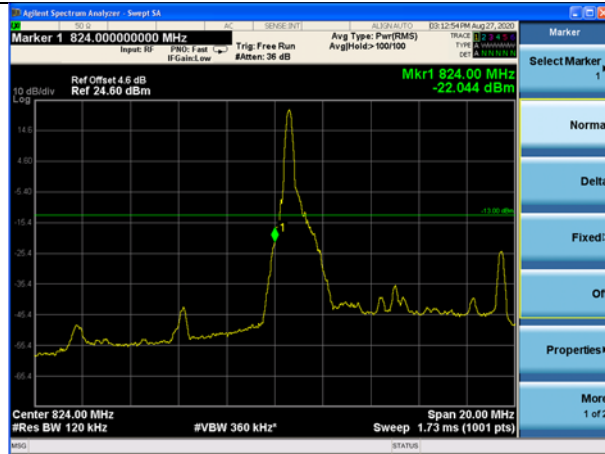


Fig.13

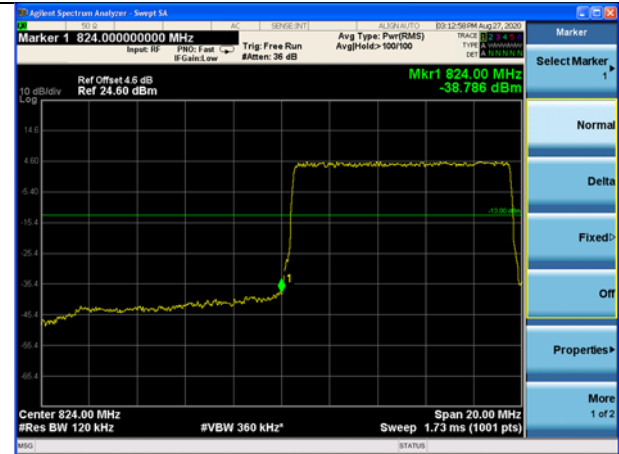


Fig.14

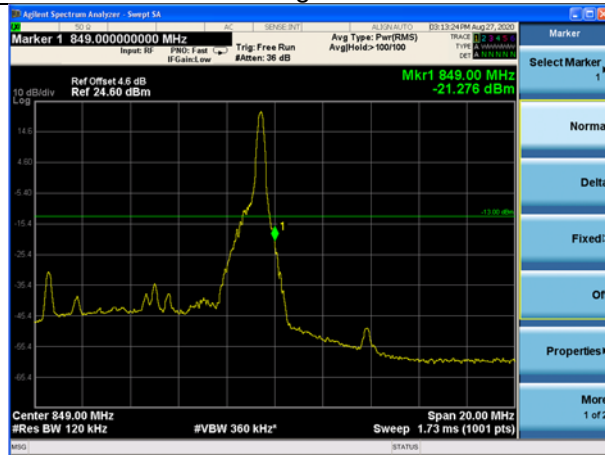


Fig.15



Fig.16



Fig.17



Fig.18

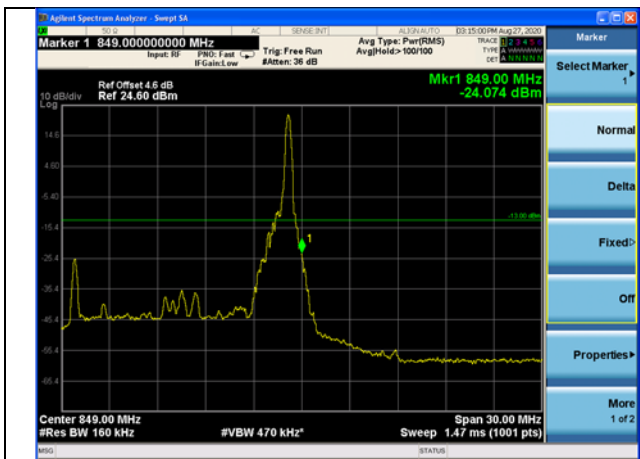


Fig.19

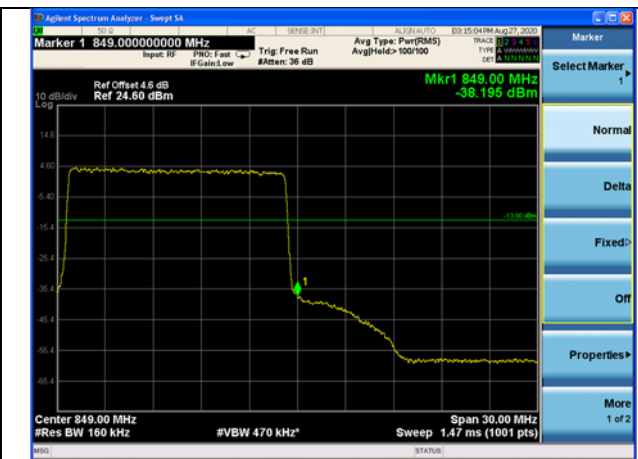


Fig.20

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band26 Low Channel				
		1.4M	3M	5M	10M	15M
-10	NV	-0.082	-0.084	-0.096	-0.031	0.022
0	NV	0.066	-0.056	-0.042	-0.037	-0.047
+10	NV	0.016	0.010	0.015	0.085	0.098
+20	NV	0.000	0.000	0.000	0.000	0.000
+30	NV	0.017	-0.063	-0.017	0.086	-0.066
+40	NV	-0.056	0.052	-0.044	0.061	-0.041
+50	NV	-0.069	0.086	0.041	-0.066	-0.018
+55	NV	-0.046	-0.081	0.016	-0.043	0.094
+20	LV	-0.035	0.021	-0.093	-0.022	0.011
+20	HV	-0.035	0.053	-0.069	0.037	0.027

Temperature(°C)	Voltage	Test Result (ppm) Band26 High Channel				
		1.4M	3M	5M	10M	15M
-10	NV	-0.054	-0.092	0.079	0.065	0.007
0	NV	-0.088	-0.030	0.025	-0.082	-0.081
+10	NV	-0.044	-0.021	-0.024	-0.073	0.093
+20	NV	0.000	0.000	0.000	0.000	0.000
+30	NV	-0.011	0.061	0.050	-0.032	-0.019
+40	NV	0.013	-0.022	0.095	-0.019	0.044
+50	NV	-0.047	0.005	0.073	-0.002	-0.007
+55	NV	-0.020	0.081	-0.046	-0.080	0.029
+20	LV	0.061	0.047	-0.051	-0.087	-0.029
+20	HV	-0.099	-0.052	0.077	0.098	-0.040