

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 66

1 RF Power Output

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
1.4	1	5	1779.3	132665	23.79	22.45	22.34
			1745	132322	23.43	23.07	22.70
			1710.7	131979	23.52	22.00	22.04
	1	3	1779.3	132665	23.88	22.63	22.40
			1745	132322	23.63	22.50	22.64
			1710.7	131979	23.63	22.28	22.40
	1	0	1779.3	132665	23.85	22.41	22.36
			1745	132322	23.54	22.24	22.23
			1710.7	131979	23.49	22.08	22.12
	3	3	1779.3	132665	23.96	23.15	22.96
			1745	132322	23.67	22.56	22.75
			1710.7	131979	23.68	22.81	22.71
	3	1	1779.3	132665	23.95	23.13	22.97
			1745	132322	23.59	22.70	22.79
			1710.7	131979	23.72	22.86	22.73
	3	0	1779.3	132665	24.00	23.08	22.91
			1745	132322	23.53	22.63	22.73
			1710.7	131979	23.81	22.81	22.70
	6	0	1779.3	132665	22.86	22.02	22.18
			1745	132322	22.68	21.66	21.98
			1710.7	131979	22.59	21.73	21.91

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
3	1	14	1778.5	132657	23.89	22.36	22.62
			1745	132322	23.62	22.99	22.36
			1711.5	131987	23.47	22.26	21.69
	1	7	1778.5	132657	24.07	22.54	22.56
			1745	132322	23.79	22.99	22.98
			1711.5	131987	23.53	22.20	21.54
	1	0	1778.5	132657	23.97	22.21	22.35
			1745	132322	23.62	22.91	22.90
			1711.5	131987	23.59	22.12	21.54
	8	7	1778.5	132657	22.91	22.13	22.00
			1745	132322	22.72	21.90	21.76
			1711.5	131987	22.55	21.68	21.75
	8	4	1778.5	132657	22.90	22.21	22.04
			1745	132322	22.70	21.91	21.74
			1711.5	131987	22.60	21.60	21.80
	8	0	1778.5	132657	22.88	22.08	22.04
			1745	132322	22.72	21.83	21.82
			1711.5	131987	22.69	21.72	21.88
	15	0	1778.5	132657	22.93	22.01	22.17
			1745	132322	22.76	21.56	21.84
			1711.5	131987	22.56	21.73	21.73

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
5	1	24	1777.5	132647	23.63	22.26	22.31
			1745	132322	23.48	22.14	22.32
			1712.5	131997	23.63	22.21	22.43
	1	12	1777.5	132647	23.99	22.53	22.56
			1745	132322	23.47	22.37	22.53
			1712.5	131997	23.68	22.33	22.41
	1	0	1777.5	132647	23.84	22.25	22.36
			1745	132322	23.46	22.38	22.36
			1712.5	131997	23.56	22.23	22.20
	12	13	1777.5	132647	22.84	21.83	21.83
			1745	132322	22.73	21.82	21.73
			1712.5	131997	22.62	21.80	21.67
	12	6	1777.5	132647	22.95	21.93	21.94
			1745	132322	22.70	21.78	21.60
			1712.5	131997	22.69	21.87	21.89
	12	0	1777.5	132647	22.77	22.07	21.85
			1745	132322	22.68	21.76	21.65
			1712.5	131997	22.59	21.78	21.62
	25	0	1777.5	132647	22.83	21.98	20.96
			1745	132322	22.75	21.82	21.82
			1712.5	131997	22.64	21.90	20.89

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
10	1	49	1775	132622	23.60	22.42	22.43
			1745	132322	23.13	22.10	22.27
			1715	132022	23.59	21.52	21.95
	1	24	1775	132622	23.89	22.89	22.87
			1745	132322	23.48	22.24	22.21
			1715	132022	23.88	21.52	22.54
	1	0	1775	132622	23.62	22.38	22.35
			1745	132322	23.47	21.84	22.36
			1715	132022	23.57	21.51	22.35
	25	25	1775	132622	22.87	21.94	21.86
			1745	132322	22.70	21.88	21.73
			1715	132022	22.72	21.73	21.81
	25	12	1775	132622	22.84	21.92	21.91
			1745	132322	22.73	21.79	21.88
			1715	132022	22.75	21.91	21.94
	25	0	1775	132622	22.86	21.93	21.92
			1745	132322	22.65	21.90	21.65
			1715	132022	22.78	21.81	21.85
	50	0	1775	132622	22.80	21.87	21.83
			1745	132322	22.67	21.60	21.87
			1715	132022	22.77	21.58	21.85

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
15	1	74	1772.5	132597	23.73	22.34	22.58
			1745	132322	23.12	22.16	22.17
			1717.5	132047	23.35	22.20	21.90
	1	37	1772.5	132597	23.80	22.26	22.25
			1745	132322	23.62	22.86	22.82
			1717.5	132047	23.67	22.25	22.62
	1	0	1772.5	132597	23.60	22.23	22.20
			1745	132322	23.22	22.23	21.95
			1717.5	132047	23.49	21.92	22.03
	36	38	1772.5	132597	22.96	22.01	21.85
			1745	132322	22.69	21.70	21.71
			1717.5	132047	22.73	21.77	21.80
	36	19	1772.5	132597	22.79	22.13	22.10
			1745	132322	22.68	21.79	21.76
			1717.5	132047	22.80	21.82	21.95
	36	0	1772.5	132597	22.74	21.85	21.83
			1745	132322	22.60	21.60	21.67
			1717.5	132047	22.75	21.76	21.80
	75	0	1772.5	132597	22.80	21.93	21.80
			1745	132322	22.59	21.79	21.64
			1717.5	132047	22.84	21.85	21.77

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
20	1	99	1770	20300	23.68	22.31	22.68
			1745	132322	23.18	22.10	22.08
			1720	132072	23.35	22.08	22.07
	1	50	1770	20300	23.99	22.57	22.56
			1745	132322	23.67	22.52	22.64
			1720	132072	23.69	23.04	22.01
	1	0	1770	20300	23.70	22.02	22.00
			1745	132322	23.39	21.87	21.77
			1720	132072	23.45	22.25	22.23
	50	50	1770	20300	22.86	21.90	21.92
			1745	132322	22.65	21.79	21.72
			1720	132072	22.53	21.71	21.53
	50	25	1770	20300	22.91	22.05	22.03
			1745	132322	22.68	21.73	21.75
			1720	132072	22.74	21.71	21.74
	50	0	1770	20300	22.77	21.90	21.87
			1745	132322	22.61	21.58	21.79
			1720	132072	22.77	21.83	21.99
	100	0	1770	20300	22.82	21.94	21.92
			1745	132322	22.64	21.68	21.63
			1720	132072	22.70	21.75	21.65

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	
66	1710.7	131979	1.4	6	0	1.0799	Fig.1	1.0791	Fig.2	1.0756	Fig.3
	1745	132322		6	0	1.0834	Fig.4	1.0817	Fig.5	1.0794	Fig.6
	1779.3	132665		6	0	1.0818	Fig.7	1.0808	Fig.8	1.0737	Fig.9
	1711.5	131987	3	15	0	1.6957	Fig.10	2.7005	Fig.11	2.6997	Fig.12
	1745	132322		15	0	2.7065	Fig.13	2.7121	Fig.14	2.7063	Fig.15
	1778.5	132657		15	0	2.7106	Fig.16	2.6962	Fig.17	2.6968	Fig.18
	1712.5	131997	5	25	0	4.4751	Fig.19	4.4822	Fig.20	4.4819	Fig.21
	1745	132322		25	0	4.4906	Fig.a22	4.4840	Fig.23	4.4889	Fig.24
	1777.5	132647		25	0	4.4719	Fig.25	4.4819	Fig.26	4.4634	Fig.27
	1715	132022	10	50	0	8.9339	Fig.28	8.9245	Fig.29	8.9287	Fig.30
	1745	132322		50	0	8.9587	Fig.31	8.9479	Fig.32	8.9398	Fig.33
	1775	132622		50	0	8.9325	Fig.34	8.9384	Fig.35	8.9447	Fig.36
	1717.5	132047	15	75	0	13.407	Fig.37	13.428	Fig.38	13.401	Fig.39
	1745	132322		75	0	13.379	Fig.40	13.418	Fig.41	13.379	Fig.42
	1772.5	132597		75	0	13.452	Fig.43	13.394	Fig.44	13.381	Fig.45
	1720	132072	20	100	0	17.891	Fig.46	17.838	Fig.47	17.851	Fig.48
	1745	132322		100	0	17.785	Fig.49	17.798	Fig.50	17.785	Fig.51
	1770	132572		100	0	17.857	Fig.52	17.867	Fig.53	17.834	Fig.54

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
66	1710.7	131979	1.4	6	0	1.229	Fig.1	1.229	Fig.2	1.236	Fig.3
	1745	132322		6	0	1.292	Fig.4	1.266	Fig.5	1.281	Fig.6
	1779.3	132665		6	0	1.229	Fig.7	1.214	Fig.8	1.248	Fig.9
	1711.5	131987	3	15	0	2.975	Fig.10	2.954	Fig.11	2.961	Fig.12
	1745	132322		15	0	2.992	Fig.13	2.987	Fig.14	3.002	Fig.15
	1778.5	132657		15	0	2.954	Fig.16	2.967	Fig.17	2.941	Fig.18
	1712.5	131997	5	25	0	4.934	Fig.19	4.942	Fig.20	4.903	Fig.21
	1745	132322		25	0	4.954	Fig.22	4.998	Fig.23	4.903	Fig.24
	1777.5	132647		25	0	4.819	Fig.25	4.905	Fig.26	4.898	Fig.27
	1715	132022	10	50	0	9.677	Fig.28	9.547	Fig.29	9.684	Fig.30
	1745	132322		50	0	9.585	Fig.31	9.776	Fig.32	9.744	Fig.33
	1775	132622		50	0	9.641	Fig.34	9.709	Fig.35	9.647	Fig.36
	1717.5	132047	15	75	0	14.38	Fig.37	14.24	Fig.38	14.41	Fig.39
	1745	132322		75	0	14.65	Fig.40	14.46	Fig.41	14.28	Fig.42
	1772.5	132597		75	0	14.25	Fig.43	14.34	Fig.44	14.32	Fig.45
	1720	132072	20	100	0	19.04	Fig.46	19.15	Fig.47	19.03	Fig.48
	1745	132322		100	0	19.03	Fig.49	19.09	Fig.50	19.01	Fig.51
	1770	132572		100	0	19.08	Fig.52	18.90	Fig.53	18.90	Fig.54

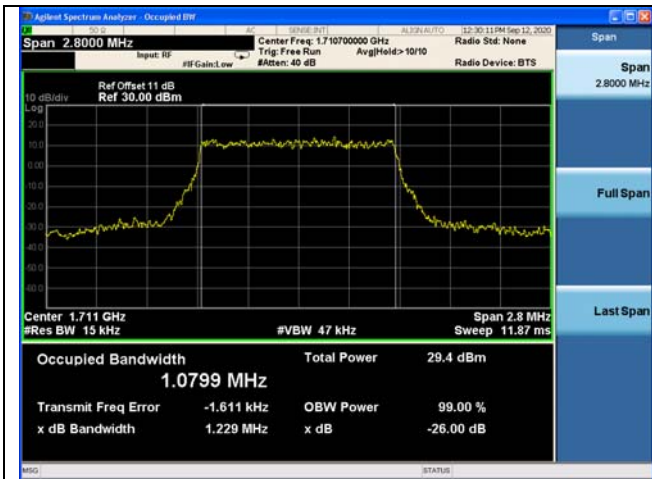


Fig.1



Fig.2

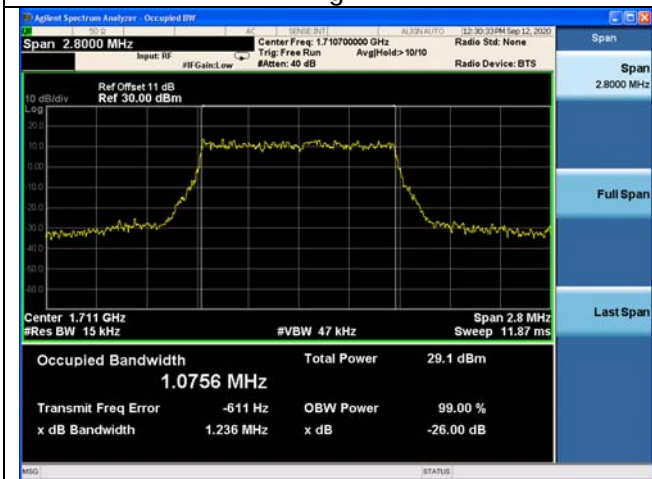


Fig.3



Fig.4

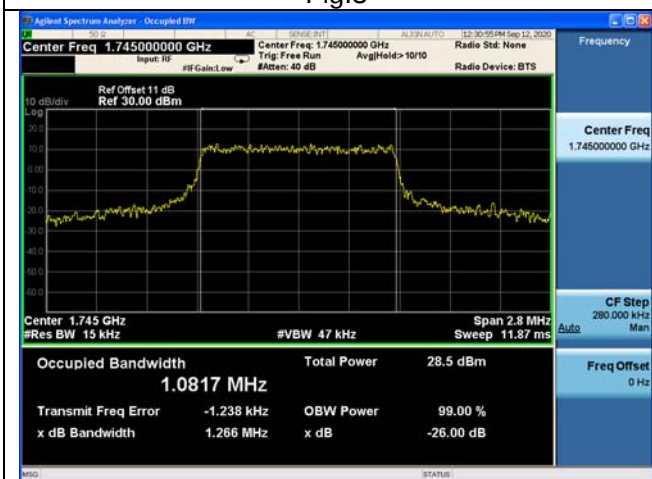


Fig.5

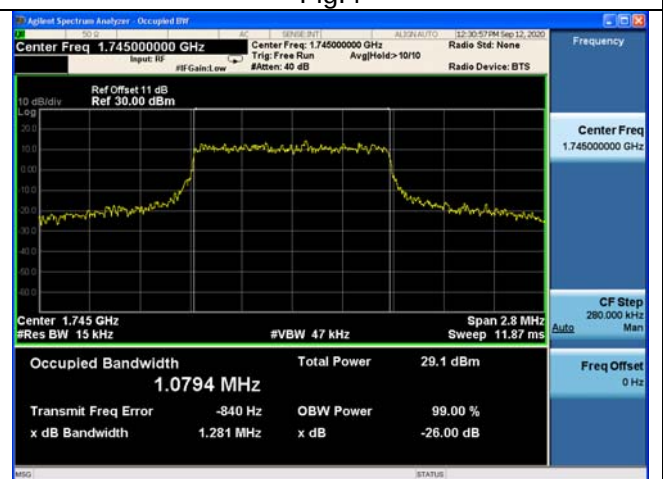


Fig.6

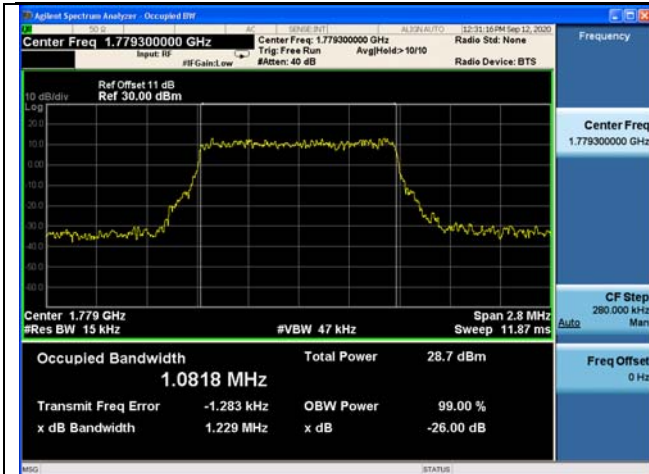


Fig.7

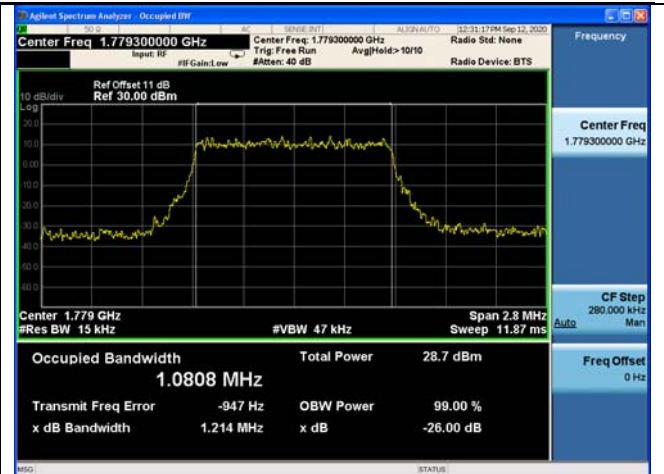


Fig.8

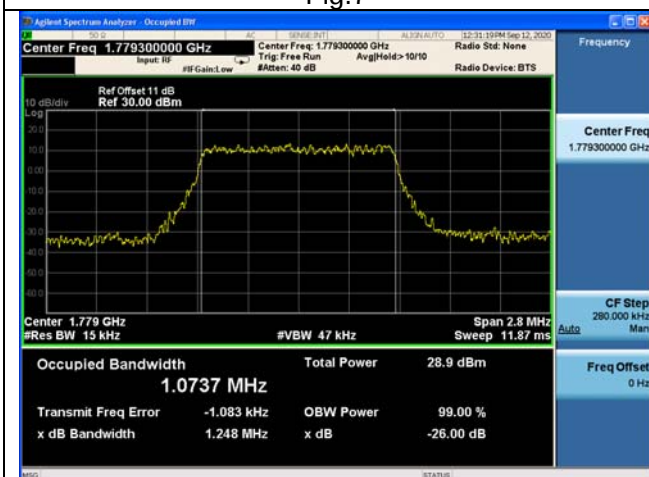


Fig.9



Fig.10

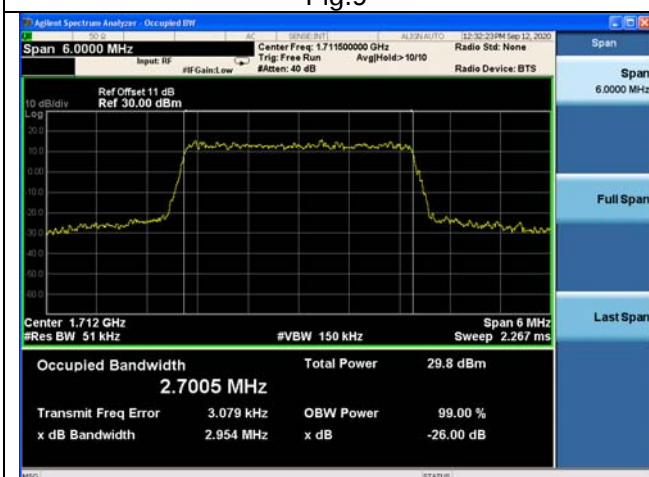


Fig.11

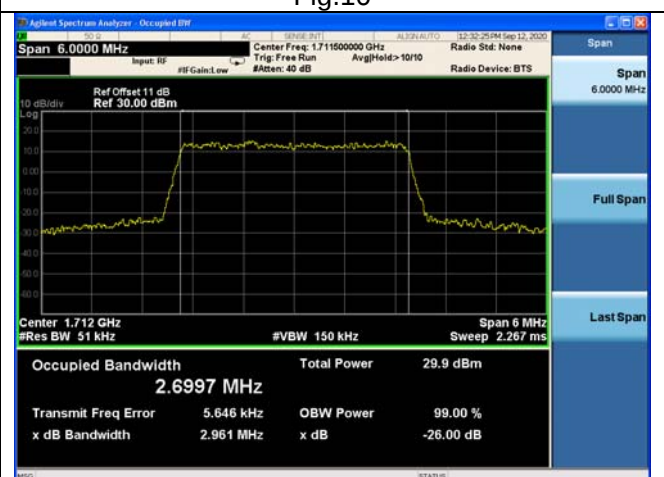


Fig.12

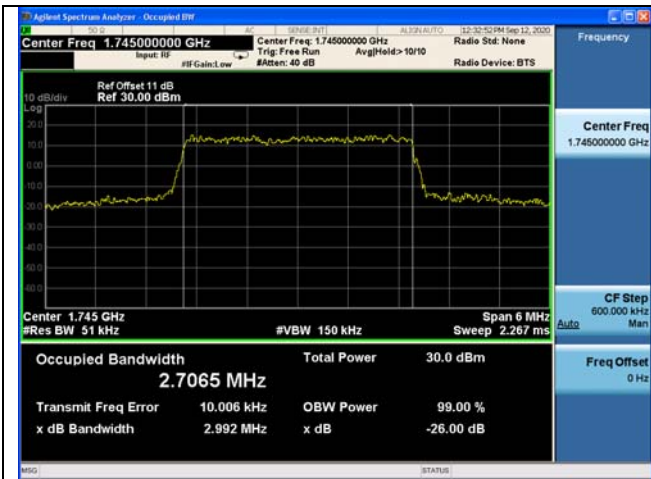


Fig.13



Fig.14

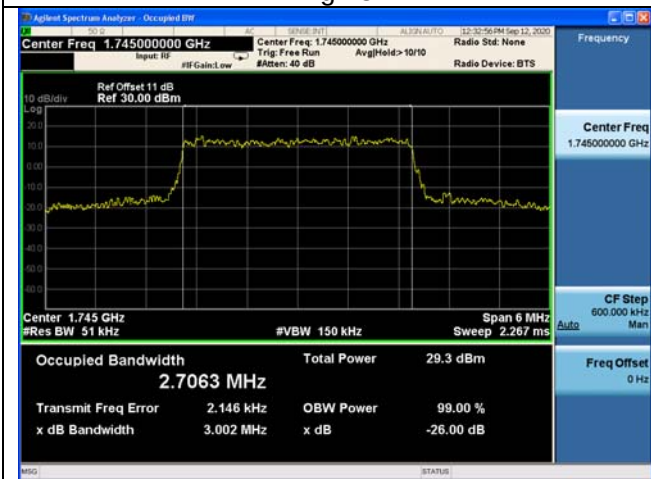


Fig.15

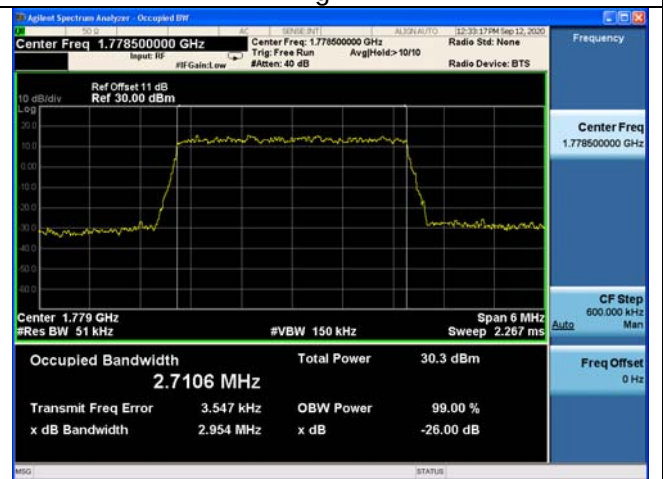


Fig.16

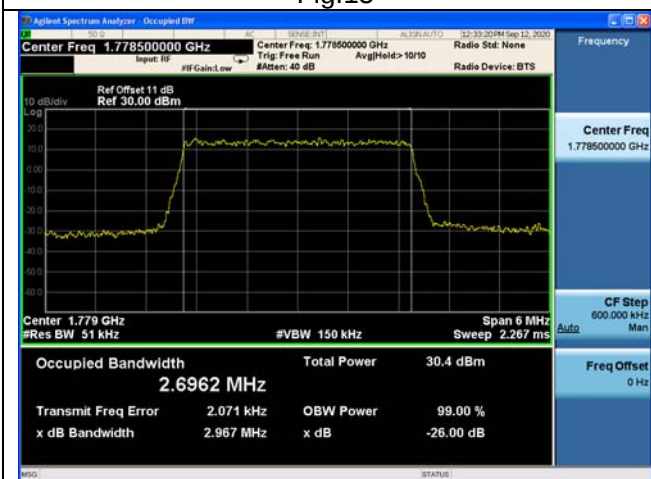


Fig.17

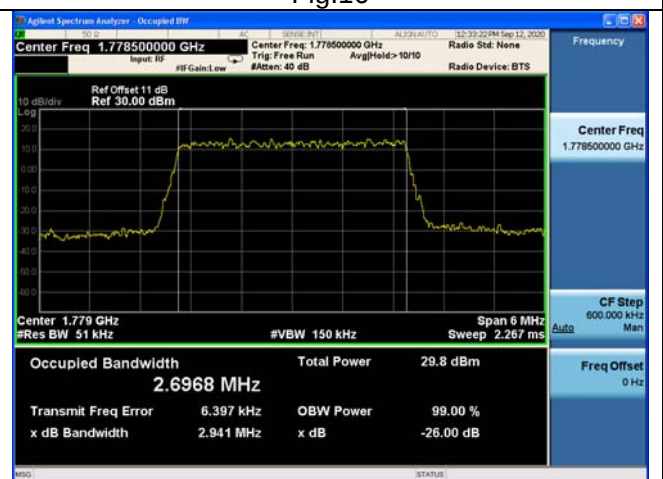


Fig.18

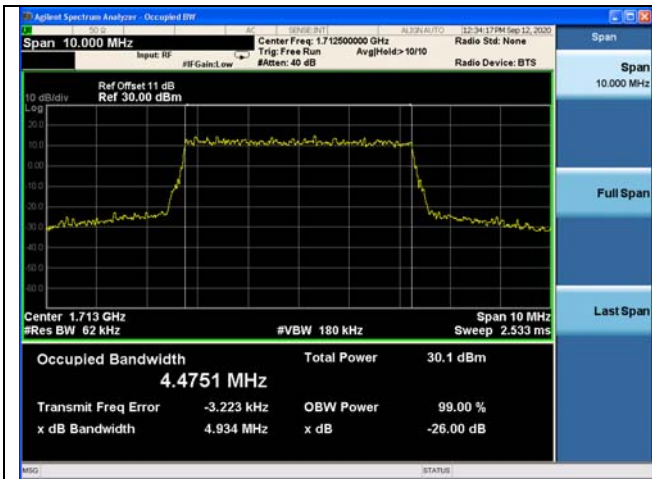


Fig.19



Fig.20

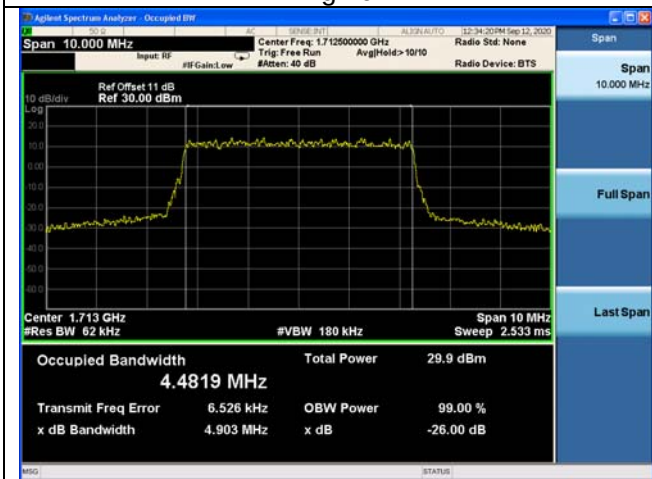


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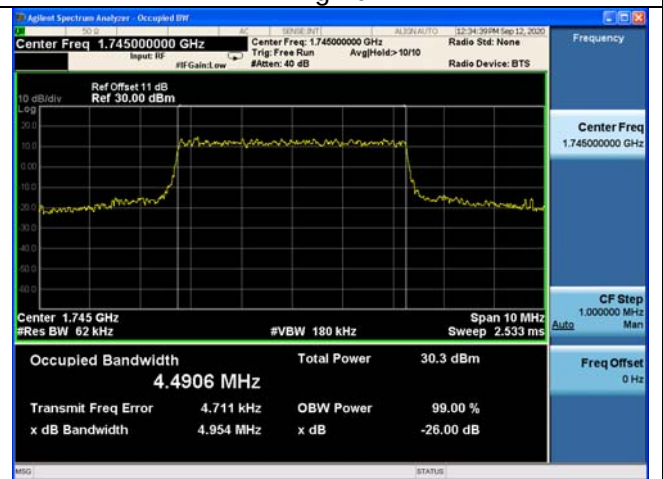


Fig.22

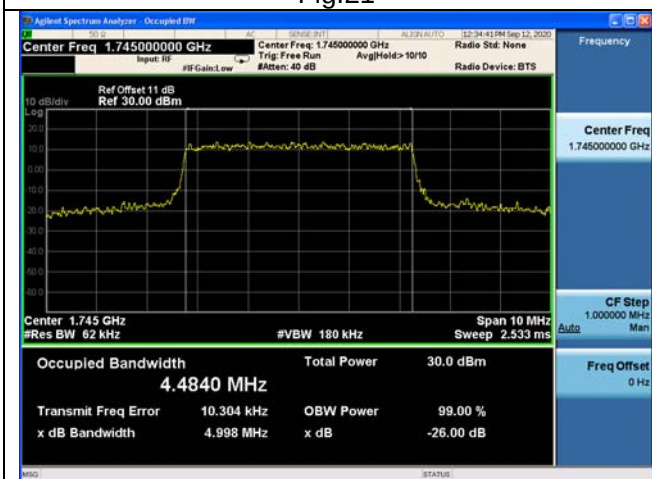


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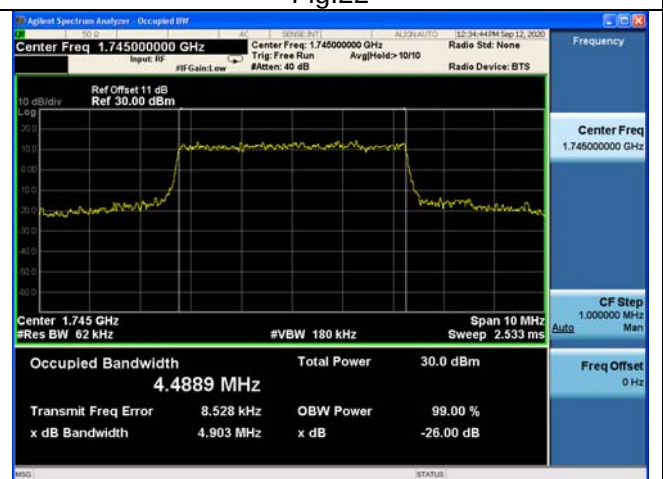


Fig.24

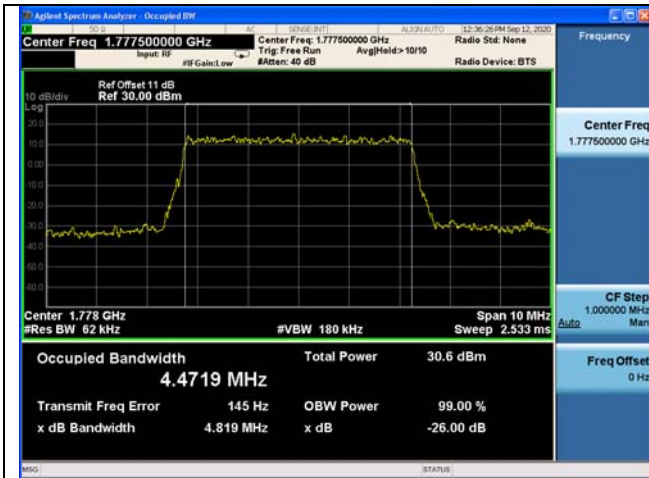


Fig.25



Fig.26

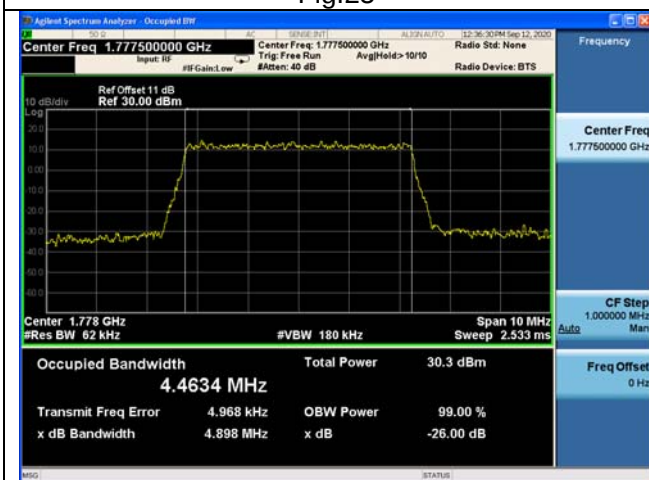


Fig.27

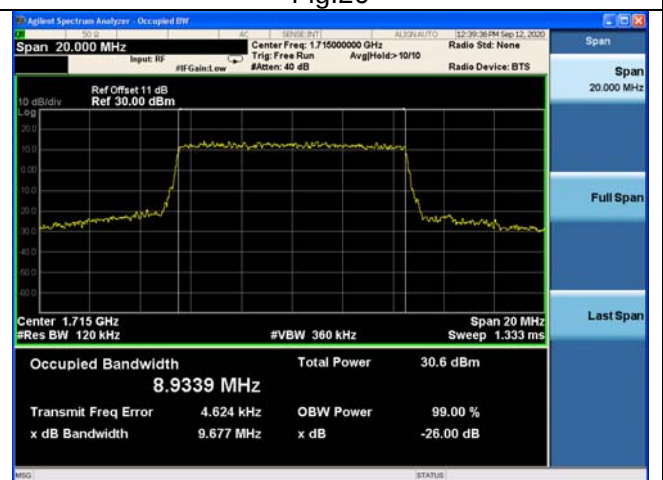


Fig.28

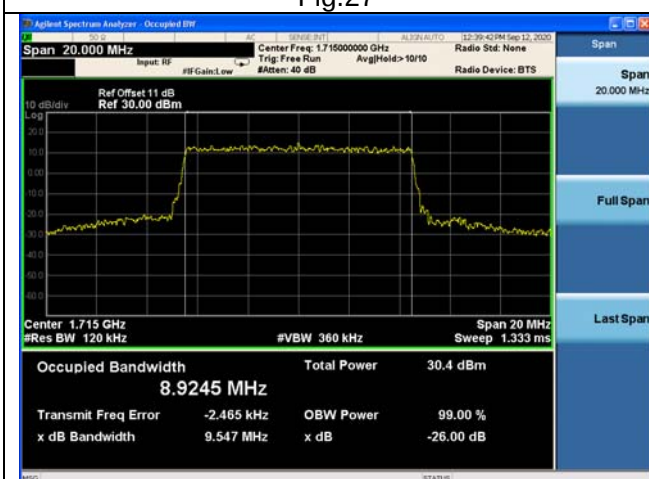


Fig.29

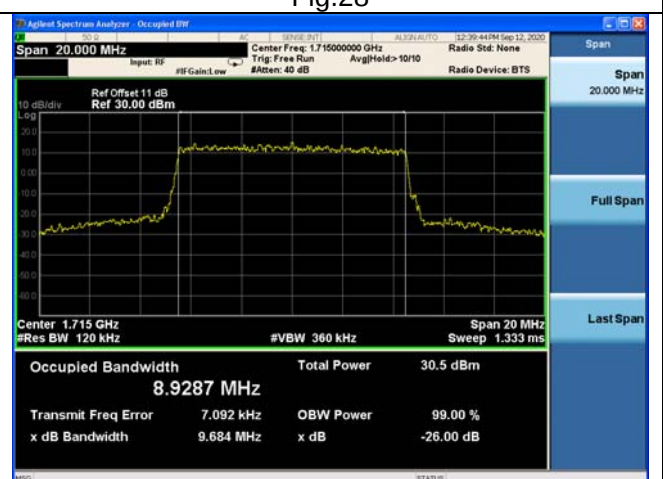


Fig.30

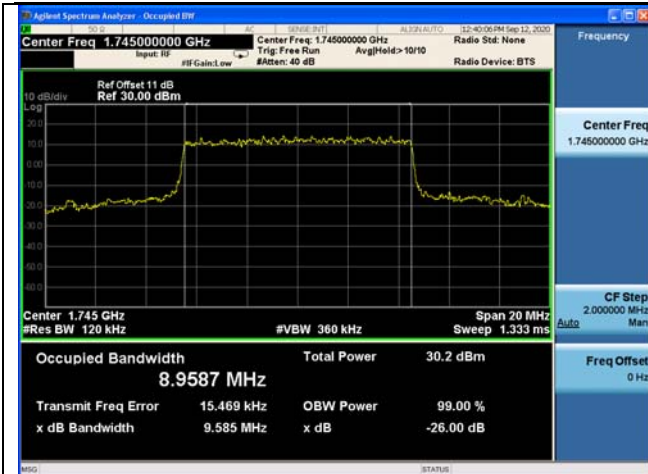


Fig.31

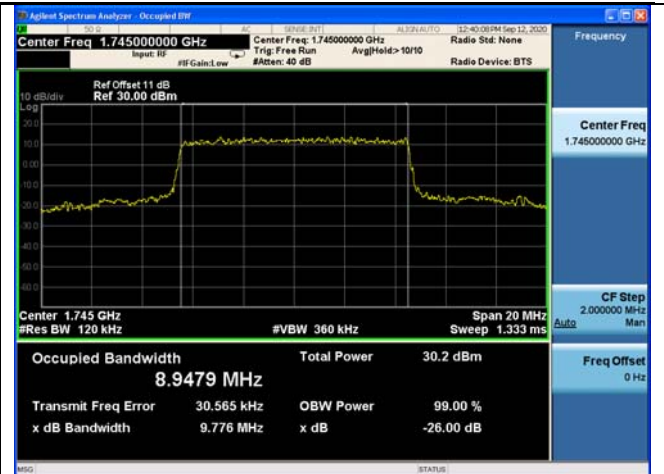


Fig.32

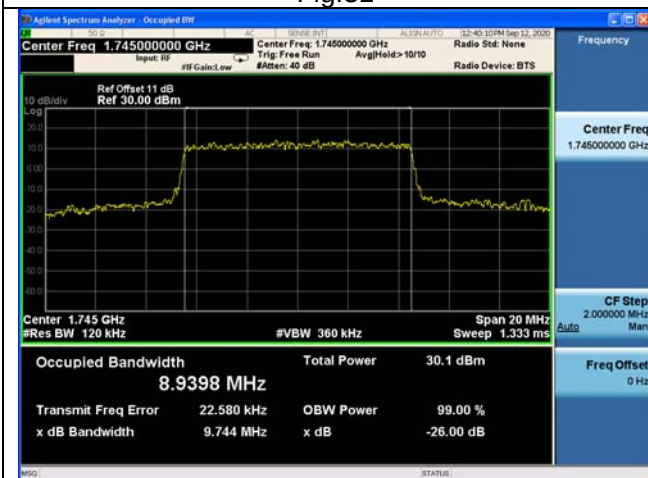


Fig.33

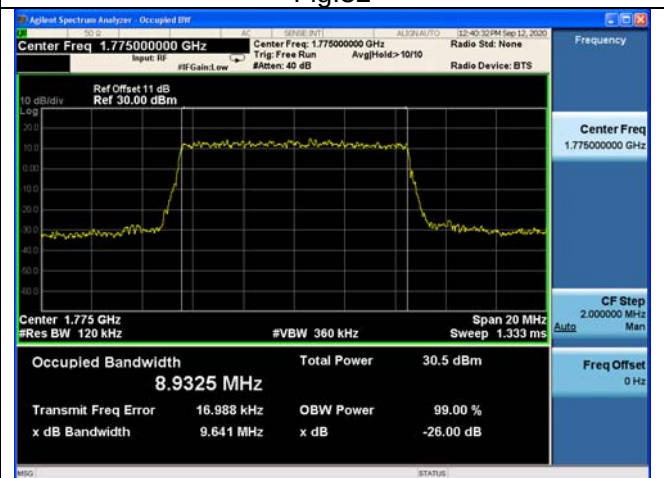


Fig.34

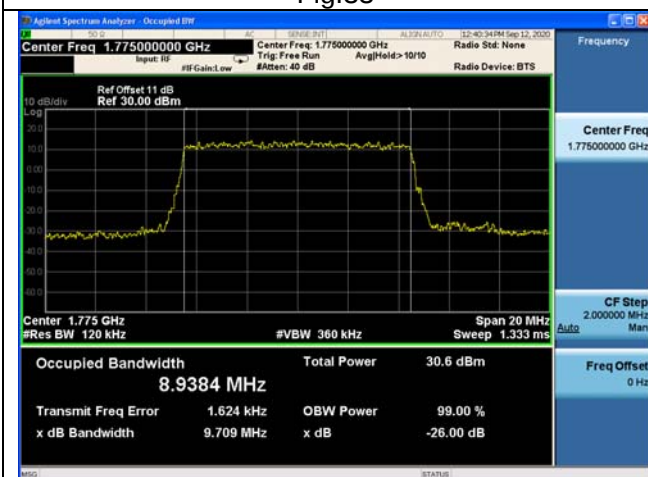


Fig.35

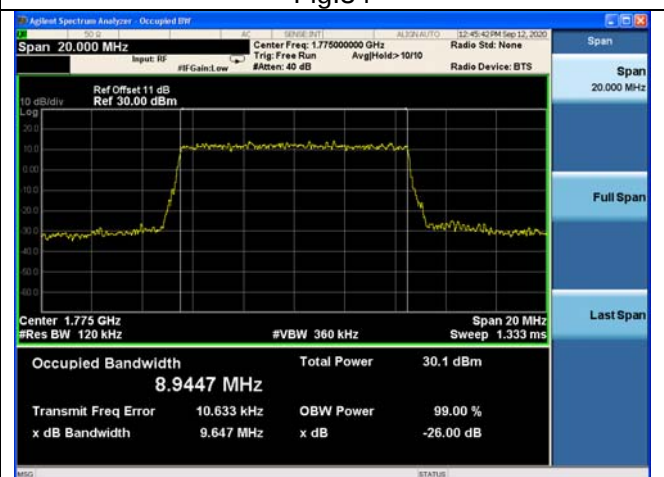


Fig.36

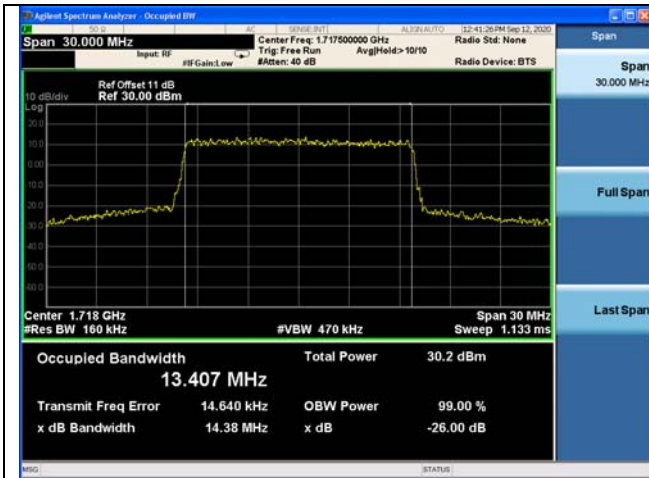


Fig.37



Fig.38

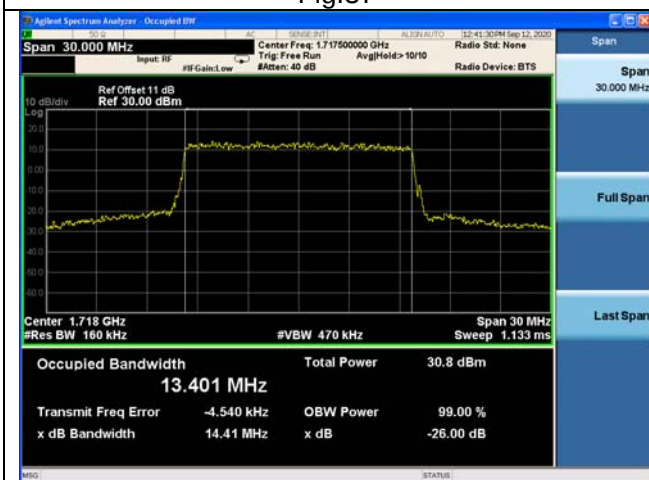


Fig.39

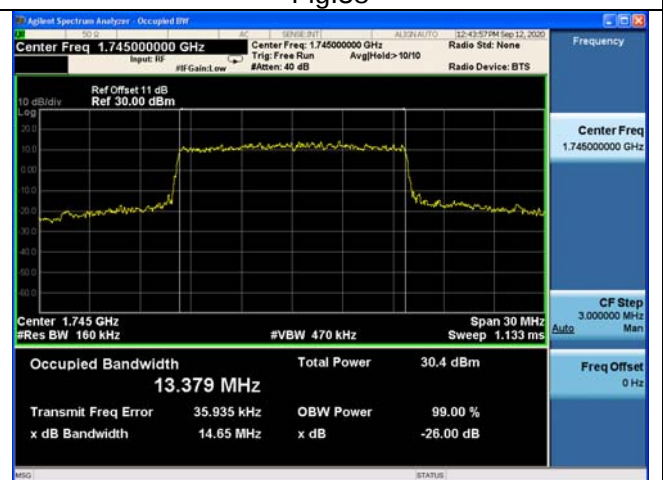


Fig.40

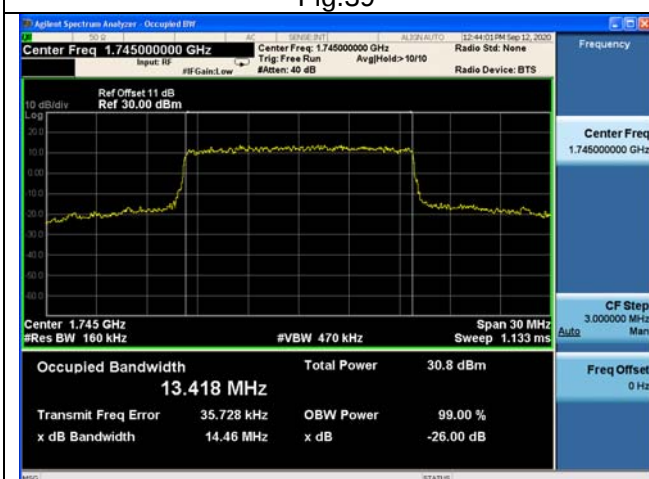


Fig.41

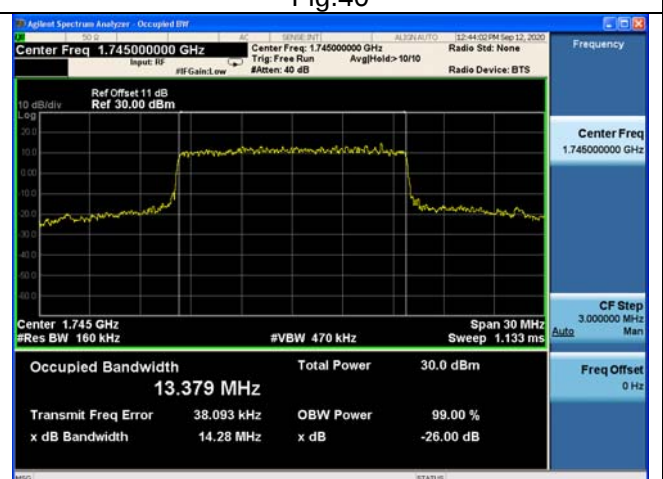


Fig.42

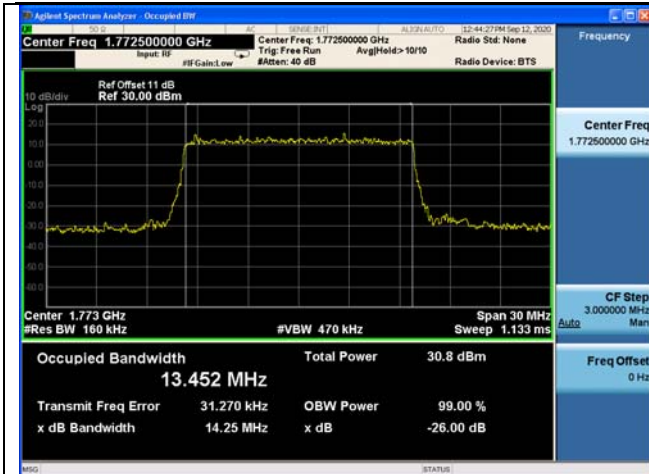


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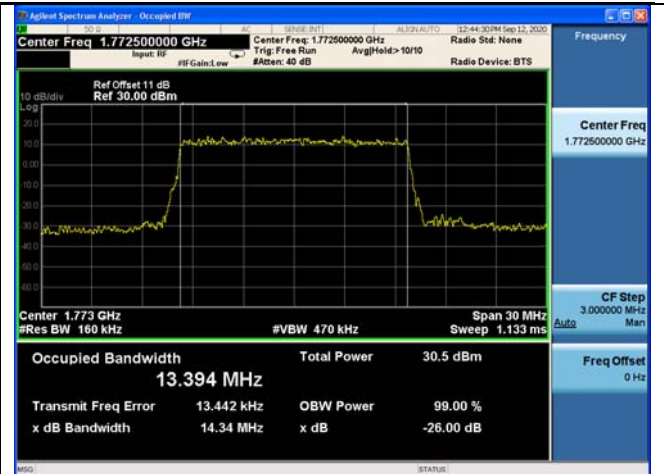


Fig.44

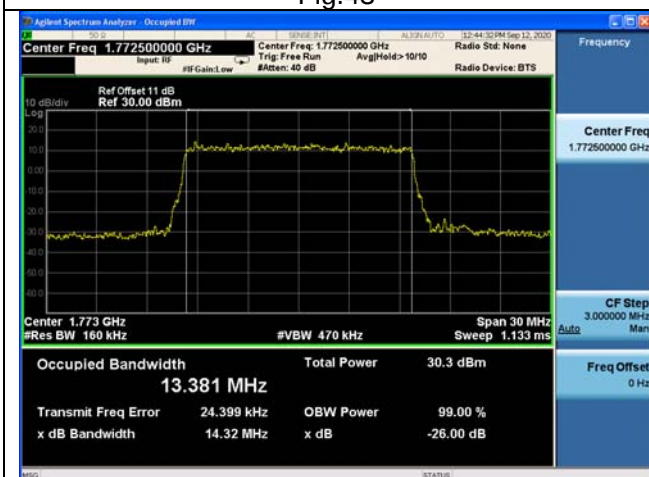


Fig.45

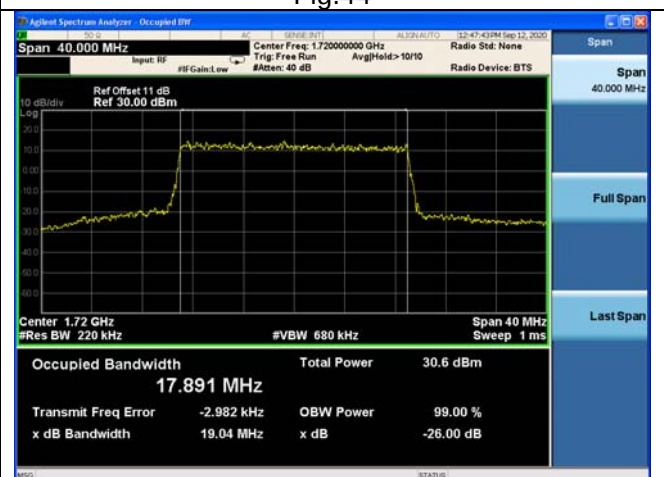


Fig.46

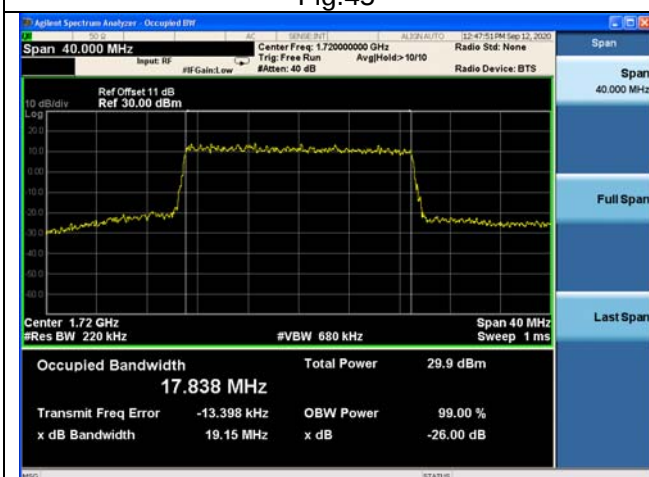


Fig.47

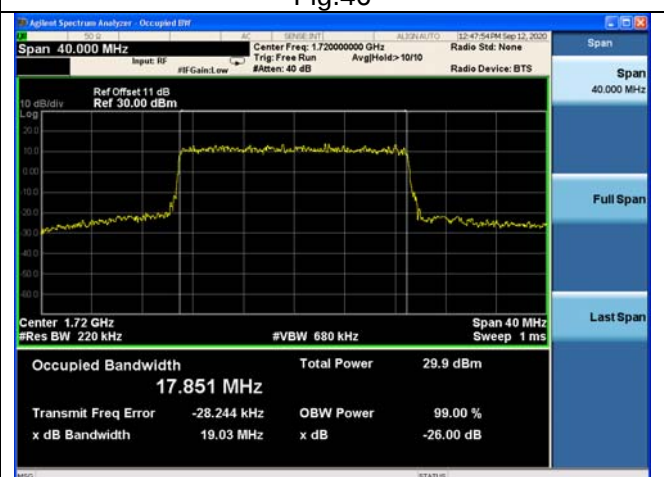


Fig.48

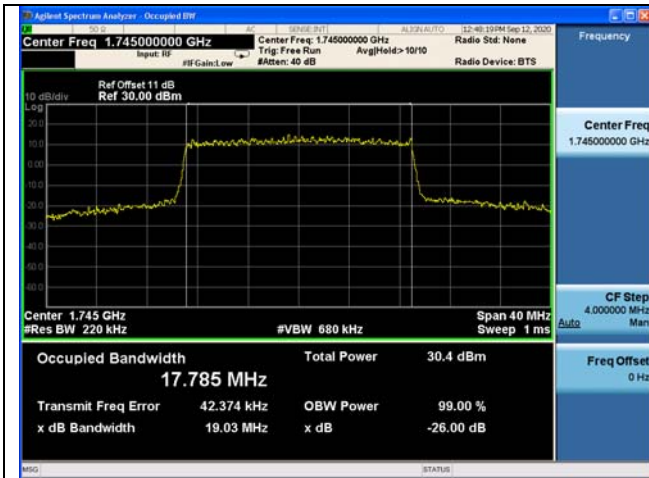


Fig.49



Fig.50

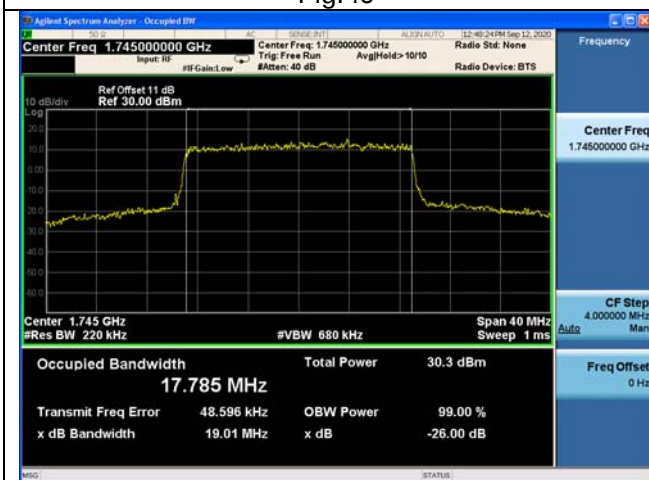


Fig.51

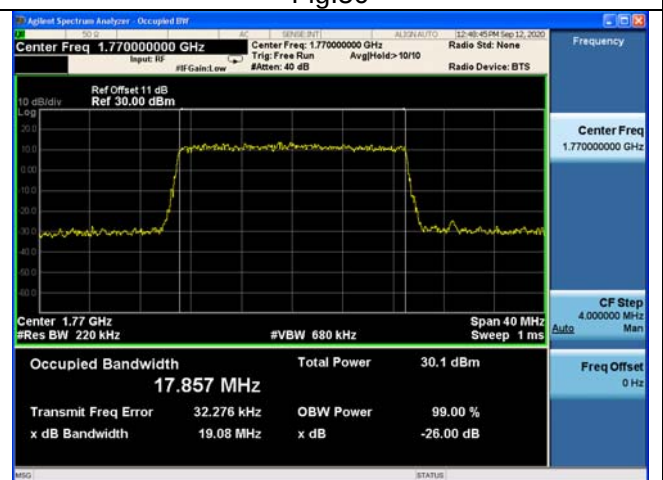


Fig.52

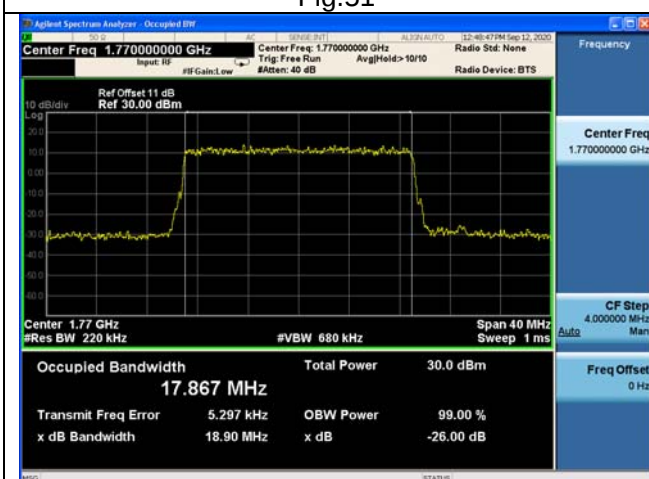


Fig.53

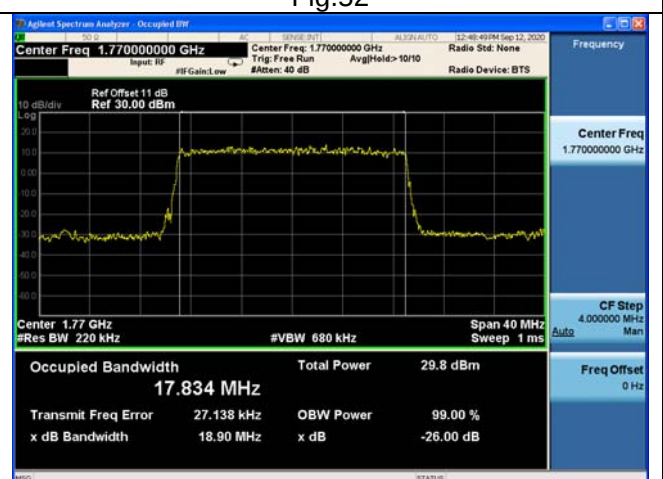


Fig.54

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
66	1745	132322	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
			20	1	0	Fig.16	Fig.17	Fig.18



Fig.1



Fig.2



Fig.3



Fig.4



Fig.5



Fig.6



Fig.7

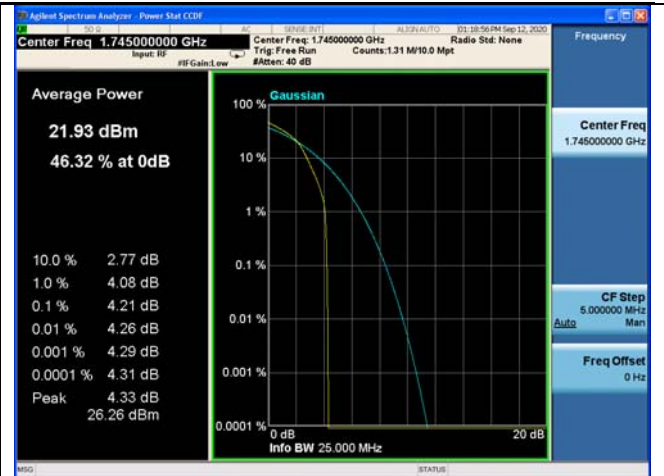


Fig.8



Fig.9



Fig.10

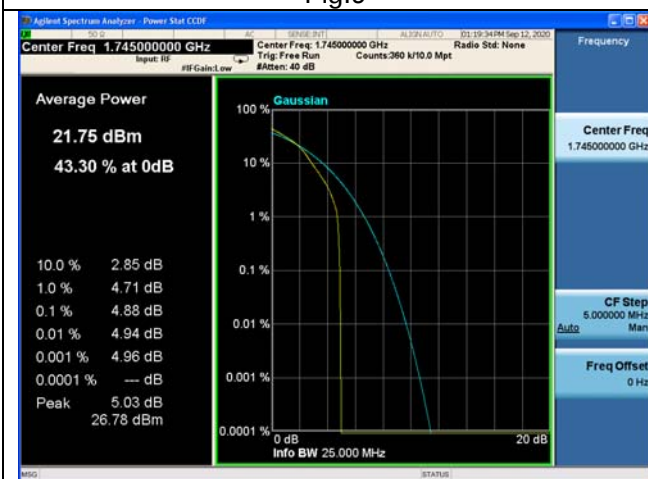


Fig.11

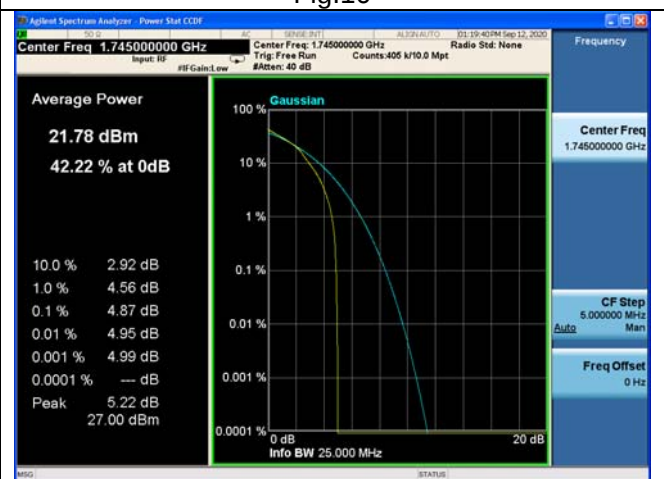


Fig.12



Fig.13



Fig.14



Fig.15

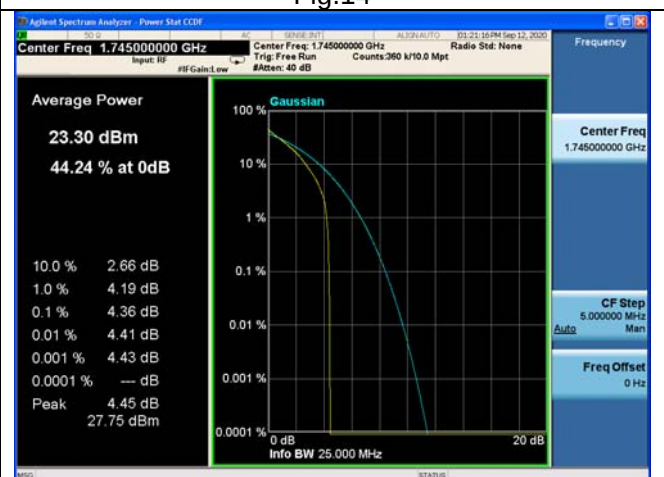


Fig.16



Fig.17

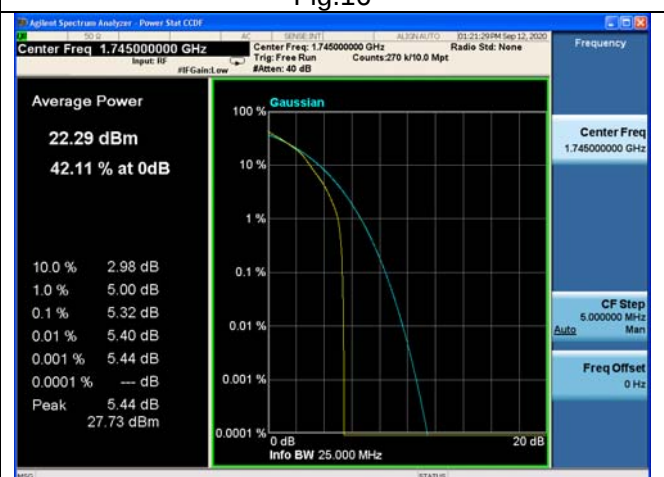


Fig.18

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
66	1720	132072	20	1	0	Fig.1-2
	1745	132322	20	1	0	Fig.3-4
	1770	132572	20	1	0	Fig.5-6

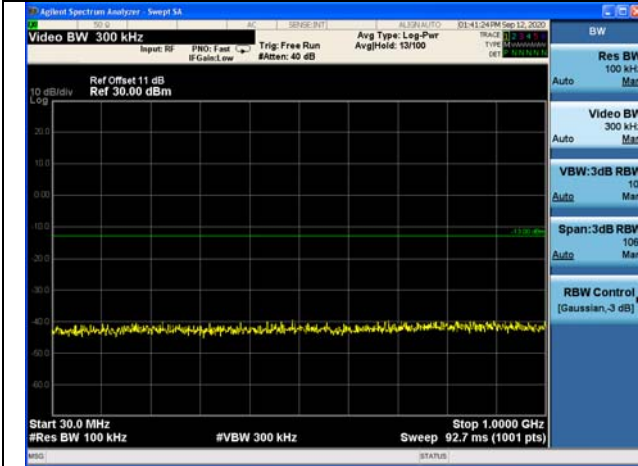


Fig.1



Fig.2

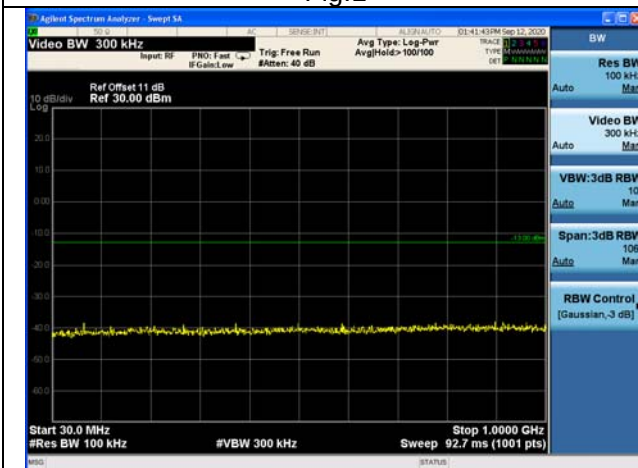


Fig3

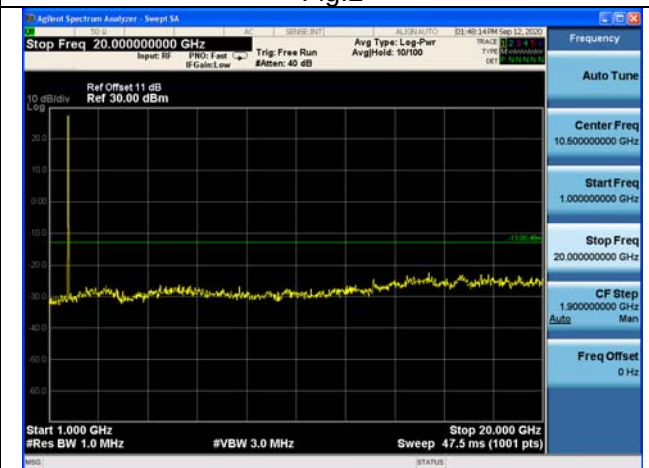


Fig4

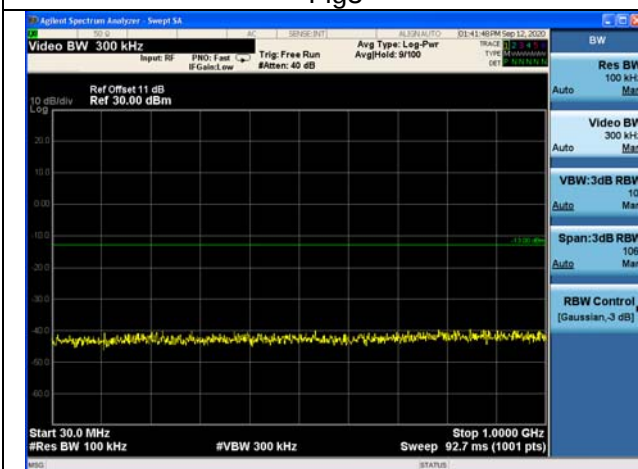


Fig5

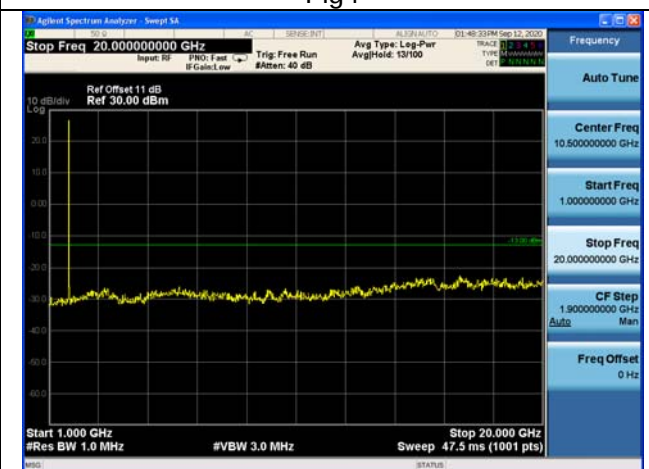


Fig6

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
66	1710.7	131979	1.4	1	0	Fig.1
				6	0	Fig.2
	1779.3	132665		1	5	Fig.3
				6	0	Fig.4
	1711.5	131987	3	1	0	Fig.5
				15	0	Fig.6
	1778.5	132657		1	14	Fig.7
				15	0	Fig.8
	1712.5	131997	5	1	0	Fig.9
				25	0	Fig.10
	1777.5	132647		1	24	Fig.11
				25	0	Fig.12
	1715	132022	10	1	0	Fig.13
				50	0	Fig.14
	1775	132622		1	49	Fig.15
				50	0	Fig.16
	1717.5	132047	15	1	0	Fig.17
				75	0	Fig.18
	1772.5	132597		1	74	Fig.19
				75	0	Fig.20
	1720	132072	20	1	0	Fig.21
				100	0	Fig.22
	1770	132572		1	99	Fig.23
				100	0	Fig.24



Fig.1



Fig.2

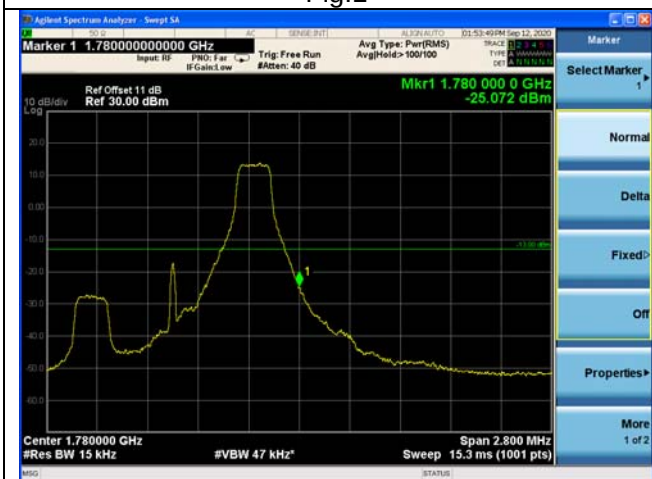


Fig.3



Fig.4

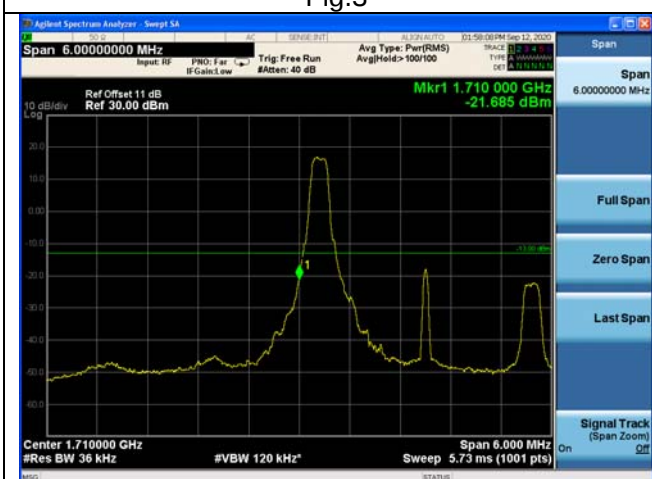


Fig.5



Fig.6

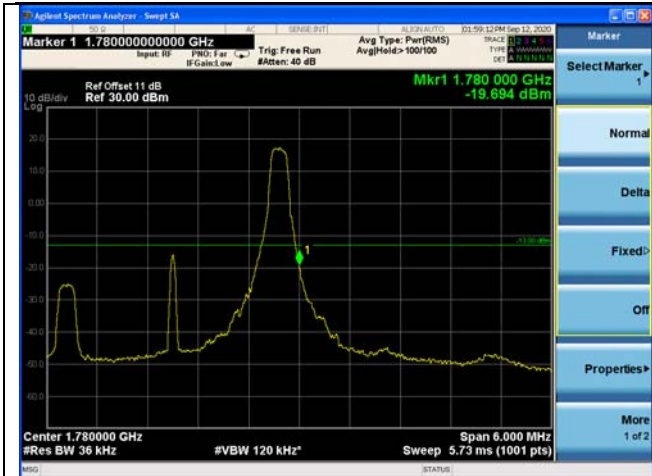


Fig.7



Fig.8

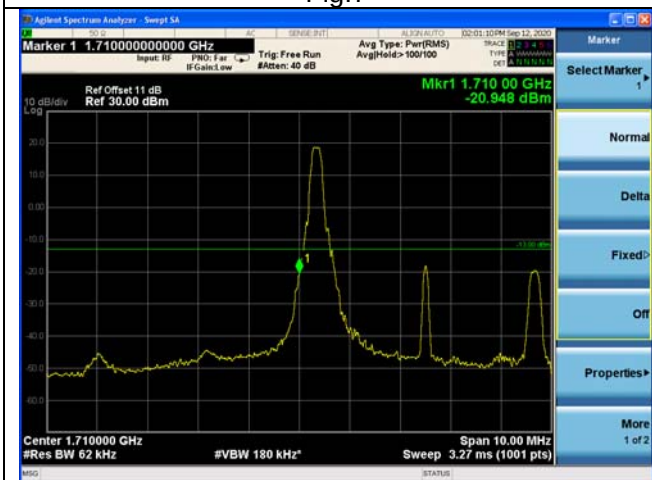


Fig.9



Fig.10

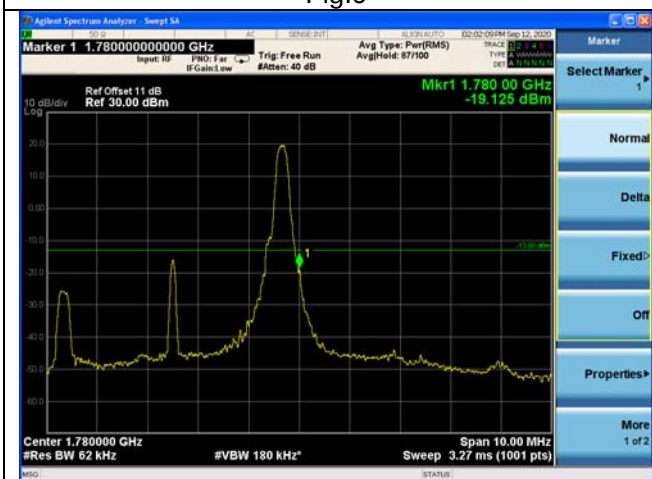


Fig.11



Fig.12

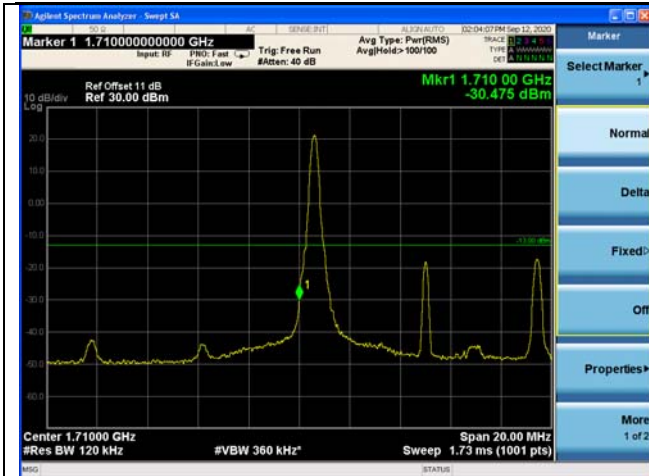


Fig.13



Fig.14

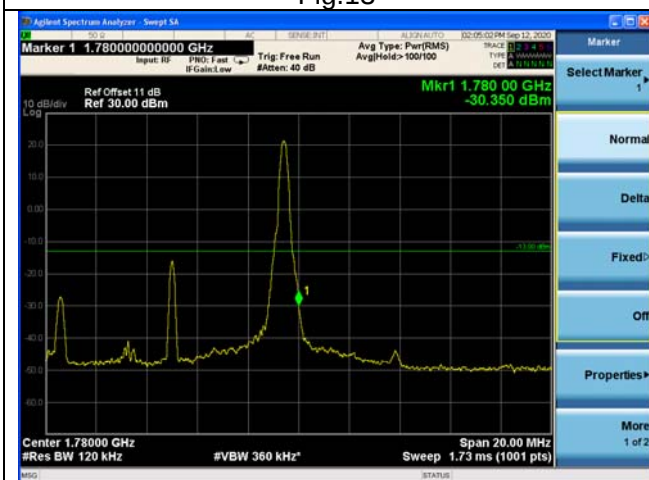


Fig.15



Fig.16

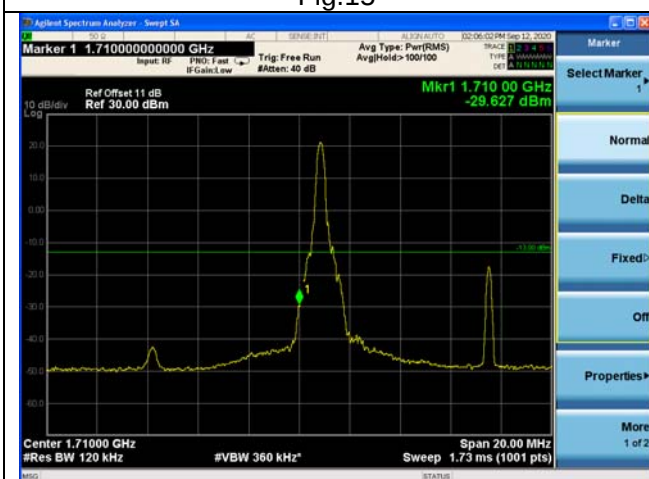


Fig.17



Fig.18

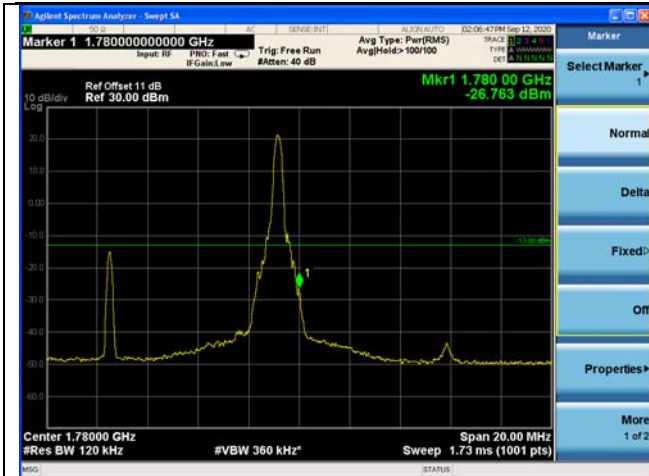


Fig.19



Fig.20

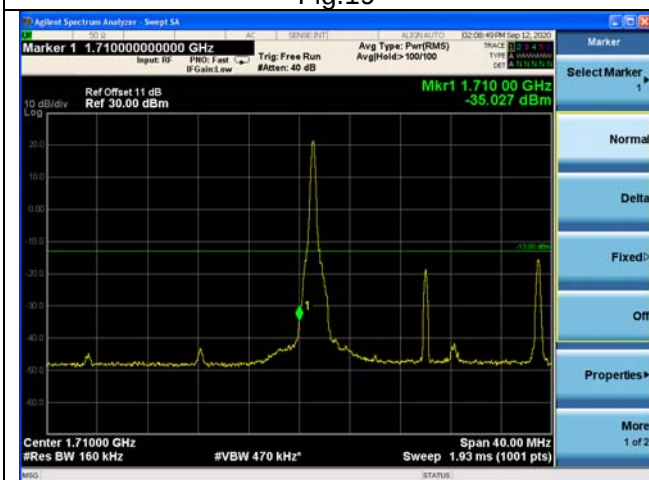


Fig.21



Fig.22

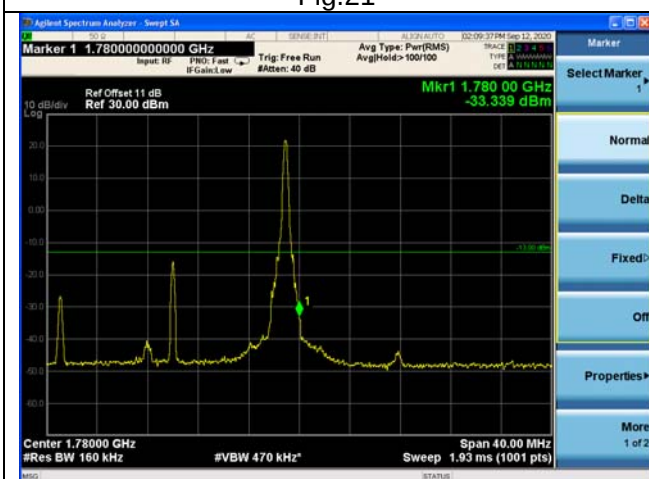


Fig.23



Fig.24

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band66 Low Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.011	-0.023	0.017	0.007	-0.018	0.000
0	NV	-0.035	0.024	-0.003	-0.019	0.027	0.026
+10	NV	-0.042	0.014	0.003	-0.002	-0.015	-0.014
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	0.029	-0.030	-0.006	-0.030	-0.027	-0.022
+40	NV	0.012	-0.024	0.009	0.048	0.001	0.025
+50	NV	0.038	-0.039	-0.013	-0.010	0.007	0.018
+55	NV	-0.002	0.049	0.008	0.000	-0.029	-0.025
+20	LV	0.053	-0.018	-0.023	-0.028	0.030	-0.022
+20	HV	-0.010	-0.025	0.048	0.009	0.008	0.039

Temperature(°C)	Voltage	Test Result (ppm) Band66 High Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.003	0.049	0.034	0.028	-0.014	-0.041
0	NV	0.050	-0.004	-0.010	0.044	0.005	-0.004
+10	NV	-0.029	-0.036	-0.017	0.041	0.021	0.036
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	0.033	-0.040	0.008	-0.021	0.015	0.016
+40	NV	0.049	-0.038	0.050	0.029	0.053	0.041
+50	NV	0.044	0.047	-0.041	0.028	-0.003	-0.015
+55	NV	-0.007	0.036	-0.027	0.050	-0.014	0.014
+20	LV	-0.017	-0.003	0.027	-0.008	-0.043	0.049
+20	HV	-0.022	-0.033	0.013	-0.025	0.053	0.009