

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 25

1 RF Power Output

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
1.4	1	5	1914.3	26683	24.81	23.51	23.57
			1882.5	26365	24.62	23.19	23.56
			1850.7	26047	24.53	23.26	23.54
	1	3	1914.3	26683	24.81	23.71	23.76
			1882.5	26365	24.71	23.53	23.58
			1850.7	26047	24.43	23.22	23.07
	1	0	1914.3	26683	24.98	23.94	23.49
			1882.5	26365	24.59	23.38	23.47
			1850.7	26047	24.31	23.17	23.45
	3	3	1914.3	26683	24.90	23.82	23.87
			1882.5	26365	24.83	23.61	23.65
			1850.7	26047	24.55	23.59	23.52
	3	1	1914.3	26683	25.15	23.70	23.50
			1882.5	26365	24.89	23.60	23.69
			1850.7	26047	24.69	23.58	23.59
	3	0	1914.3	26683	25.07	23.73	23.84
			1882.5	26365	24.85	23.48	23.67
			1850.7	26047	24.56	23.46	23.55
	6	0	1914.3	26683	23.94	22.56	22.67
			1882.5	26365	23.69	22.52	22.58
			1850.7	26047	23.56	22.50	22.44

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
3	1	14	1913.5	26675	24.96	23.62	23.63
			1882.5	26365	24.59	23.75	23.76
			1851.5	26055	24.66	23.11	23.64
	1	7	1913.5	26675	24.94	23.70	23.61
			1882.5	26365	24.68	23.31	23.34
			1851.5	26055	24.52	22.98	23.27
	1	0	1913.5	26675	24.90	23.40	23.47
			1882.5	26365	24.59	23.09	23.13
			1851.5	26055	24.60	22.81	22.90
	8	7	1913.5	26675	23.95	22.62	22.56
			1882.5	26365	23.69	22.70	22.62
			1851.5	26055	23.62	22.60	23.58
	8	4	1913.5	26675	23.89	22.76	22.68
			1882.5	26365	23.71	22.67	22.56
			1851.5	26055	23.60	22.66	23.51
	8	0	1913.5	26675	23.86	22.85	22.80
			1882.5	26365	23.78	22.42	22.47
			1851.5	26055	23.52	22.68	23.51
	15	0	1913.5	26675	23.82	22.95	22.81
			1882.5	26365	23.59	22.74	22.60
			1851.5	26055	23.57	22.58	21.55

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
5	1	24	1912.5	26665	24.88	23.58	23.60
			1882.5	26365	24.39	23.07	23.12
			1852.5	26065	24.63	23.68	23.28
	1	12	1912.5	26665	24.88	23.58	23.86
			1882.5	26365	24.65	23.33	23.44
			1852.5	26065	24.63	23.38	23.39
	1	0	1912.5	26665	24.49	23.28	23.55
			1882.5	26365	24.53	23.33	23.37
			1852.5	26065	24.40	23.28	23.25
	12	13	1912.5	26665	23.79	22.69	22.78
			1882.5	26365	23.66	22.63	22.49
			1852.5	26065	23.64	22.61	22.56
	12	6	1912.5	26665	23.96	22.75	22.85
			1882.5	26365	23.66	22.55	22.59
			1852.5	26065	23.56	22.55	22.51
	12	0	1912.5	26665	23.86	22.77	22.87
			1882.5	26365	23.69	22.43	22.48
			1852.5	26065	23.51	22.50	22.45
	25	0	1912.5	26665	23.82	22.83	22.71
			1882.5	26365	23.62	22.62	22.64
			1852.5	26065	23.62	22.71	22.64

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
10	1	49	1910	26640	24.96	23.56	23.76
			1882.5	26365	24.42	23.71	23.38
			1855	26090	24.73	23.34	23.00
	1	24	1910	26640	24.68	23.95	23.64
			1882.5	26365	24.65	23.53	23.41
			1855	26090	24.68	23.85	23.55
	1	0	1910	26640	24.71	23.46	23.00
			1882.5	26365	24.56	22.99	22.81
			1855	26090	24.43	23.38	22.77
	25	25	1910	26640	23.74	22.79	22.81
			1882.5	26365	23.59	22.75	22.57
			1855	26090	23.68	22.61	22.62
	25	12	1910	26640	23.79	22.71	22.72
			1882.5	26365	23.64	22.72	22.96
			1855	26090	23.79	22.67	22.67
	25	0	1910	26640	23.69	22.70	22.78
			1882.5	26365	23.57	22.75	22.53
			1855	26090	23.61	22.58	22.67
	50	0	1910	26640	23.74	22.69	22.86
			1882.5	26365	23.74	22.51	22.61
			1855	26090	23.77	22.56	22.64

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
15	1	74	1907.5	26615	24.94	23.32	23.59
			1882.5	26365	24.30	22.90	23.47
			1857.5	26115	24.18	23.04	22.88
	1	37	1907.5	26615	24.90	23.39	23.66
			1882.5	26365	24.61	23.23	23.52
			1857.5	26115	24.57	23.27	23.46
	1	0	1907.5	26615	24.28	22.83	22.76
			1882.5	26365	24.40	22.89	22.79
			1857.5	26115	24.60	22.84	22.91
	36	38	1907.5	26615	23.79	22.61	22.88
			1882.5	26365	23.66	22.67	22.77
			1857.5	26115	23.69	22.56	22.46
	36	19	1907.5	26615	23.76	22.70	22.88
			1882.5	26365	23.76	22.62	22.83
			1857.5	26115	23.72	22.70	22.60
	36	0	1907.5	26615	23.63	22.63	22.64
			1882.5	26365	23.64	22.65	22.73
			1857.5	26115	23.59	22.57	22.58
	75	0	1907.5	26615	23.75	22.77	22.69
			1882.5	26365	23.76	22.76	22.55
			1857.5	26115	23.64	22.61	22.62

BW	RB Size	RB Offset	Carrier frequency (MHz)	UL Channel	Conducted power (dBm)		
					QPSK	16QAM	64QAM
20	1	99	1905	26590	24.80	23.57	23.42
			1882.5	26365	24.61	22.86	23.22
			1860	26140	24.20	23.17	23.01
	1	50	1905	26590	24.53	23.36	23.60
			1882.5	26365	24.60	23.33	23.59
			1860	26140	24.75	24.03	23.58
	1	0	1905	26590	24.71	22.81	23.02
			1882.5	26365	24.23	22.69	22.72
			1860	26140	24.67	23.33	22.87
	50	50	1905	26590	23.70	22.58	22.76
			1882.5	26365	23.68	22.85	22.71
			1860	26140	23.57	22.51	22.60
	50	25	1905	26590	23.71	22.58	22.74
			1882.5	26365	23.61	22.52	22.77
			1860	26140	23.76	22.71	22.69
	50	0	1905	26590	23.55	22.50	22.57
			1882.5	26365	23.64	22.58	22.67
			1860	26140	23.71	22.67	22.74
	100	0	1905	26590	23.70	22.63	22.72
			1882.5	26365	23.73	22.66	22.55
			1860	26140	23.69	22.53	22.52

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	
25	1850.7	26047	1.4	6	0	1.0805	Fig.1	1.0706	Fig.2	1.0714	Fig.3
	1882.5	26365		6	0	1.0796	Fig.4	1.0816	Fig.5	1.0827	Fig.6
	1914.3	26683		6	0	1.0802	Fig.7	1.0828	Fig.8	1.0837	Fig.9
	1851.5	26055	3	15	0	2.6946	Fig.10	2.6958	Fig.11	2.6954	Fig.12
	1882.5	26365		15	0	2.6996	Fig.13	2.7007	Fig.14	2.7007	Fig.15
	1913.5	26675		15	0	2.7019	Fig.16	2.6938	Fig.17	2.6996	Fig.18
	1852.5	26065	5	25	0	4.4946	Fig.19	4.4649	Fig.20	4.4846	Fig.21
	1882.5	26365		25	0	4.4801	Fig.22	4.4789	Fig.23	4.4774	Fig.24
	1912.5	26665		25	0	4.4826	Fig.25	4.4760	Fig.26	4.4683	Fig.27
	1855	26090	10	50	0	8.9117	Fig.28	8.9321	Fig.29	8.9213	Fig.30
	1882.5	26365		50	0	8.8913	Fig.31	8.9484	Fig.32	8.9460	Fig.33
	1910	26640		50	0	8.9342	Fig.34	8.9421	Fig.35	8.9408	Fig.36
	1857.5	26115	15	75	0	13.383	Fig.37	13.388	Fig.38	13.417	Fig.39
	1882.5	26365		75	0	13.361	Fig.40	13.402	Fig.41	13.399	Fig.42
	1907.5	26615		75	0	13.395	Fig.43	13.348	Fig.44	13.373	Fig.45
	1860	26140	20	100	0	17.856	Fig.46	17.898	Fig.47	17.837	Fig.48
	1882.5	26365		100	0	17.799	Fig.49	17.745	Fig.50	17.841	Fig.51
	1905	26590		100	0	17.812	Fig.52	17.782	Fig.53	17.818	Fig.54

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
25	1850.7	26047	1.4	6	0	1.254	Fig.1	1.235	Fig.2	1.206	Fig.3
	1882.5	26365		6	0	1.282	Fig.4	1.250	Fig.5	1.276	Fig.6
	1914.3	26683		6	0	1.288	Fig.7	1.281	Fig.8	1.303	Fig.9
	1851.5	26055	3	15	0	2.912	Fig.10	2.943	Fig.11	2.929	Fig.12
	1882.5	26365		15	0	2.937	Fig.13	2.991	Fig.14	2.980	Fig.15
	1913.5	26675		15	0	2.972	Fig.16	2.976	Fig.17	2.976	Fig.18
	1852.5	26065	5	25	0	4.847	Fig.19	4.845	Fig.20	4.877	Fig.21
	1882.5	26365		25	0	4.856	Fig.22	4.935	Fig.23	4.919	Fig.24
	1912.5	26665		25	0	4.917	Fig.25	4.901	Fig.26	4.893	Fig.27
	1855	26090	10	50	0	9.678	Fig.28	9.593	Fig.29	9.652	Fig.30
	1882.5	26365		50	0	9.615	Fig.31	9.521	Fig.32	9.541	Fig.33
	1910	26640		50	0	9.575	Fig.34	9.575	Fig.35	9.515	Fig.36
	1857.5	26115	15	75	0	14.25	Fig.37	14.20	Fig.38	14.31	Fig.39
	1882.5	26365		75	0	14.20	Fig.40	14.06	Fig.41	14.20	Fig.42
	1907.5	26615		75	0	14.37	Fig.43	14.26	Fig.44	14.10	Fig.45
	1860	26140	20	100	0	19.21	Fig.46	19.18	Fig.47	19.16	Fig.48
	1882.5	26365		100	0	18.91	Fig.49	19.98	Fig.50	18.66	Fig.51
	1905	26590		100	0	18.83	Fig.52	18.80	Fig.53	19.17	Fig.54

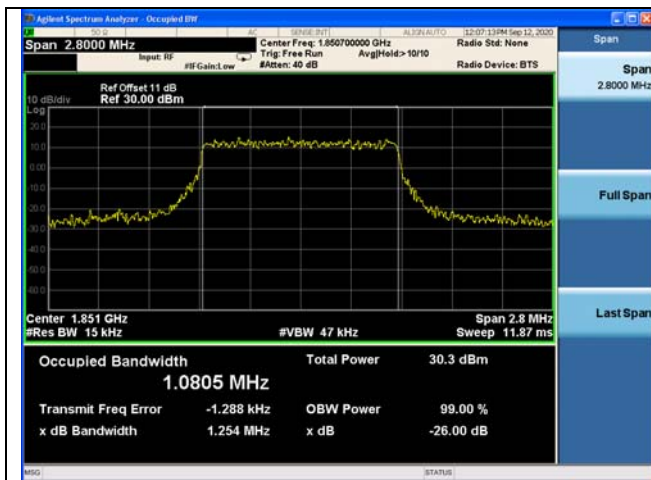


Fig.1



Fig.2

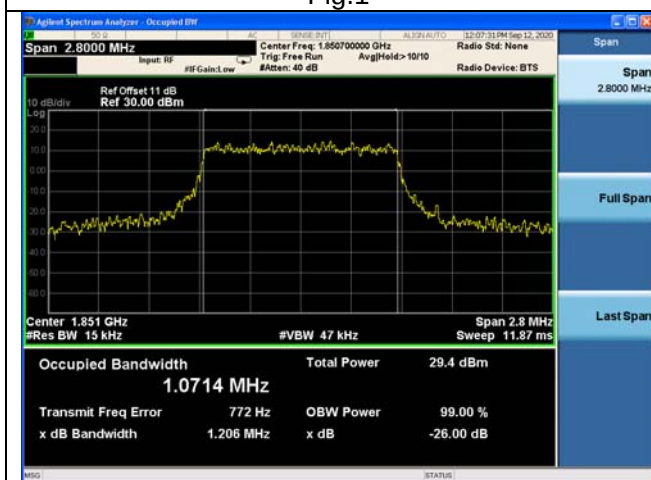


Fig.3

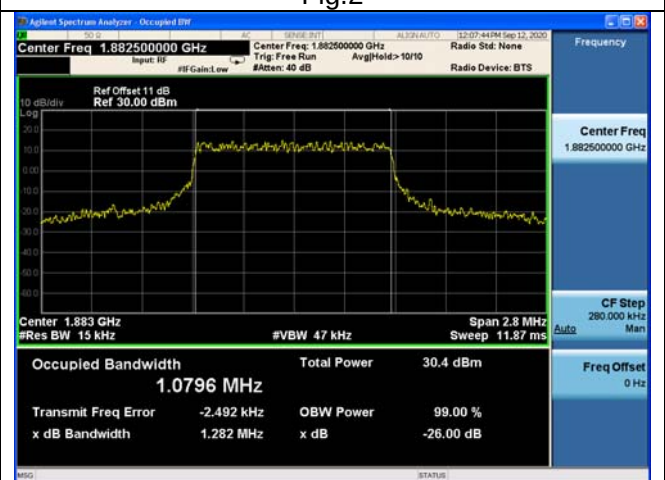


Fig.4

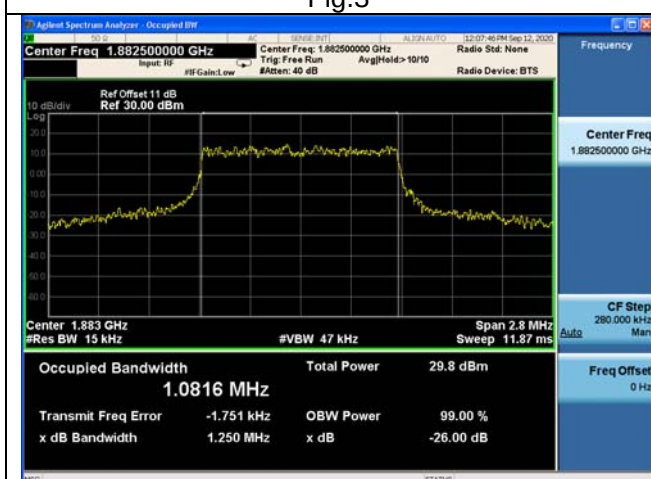


Fig.5

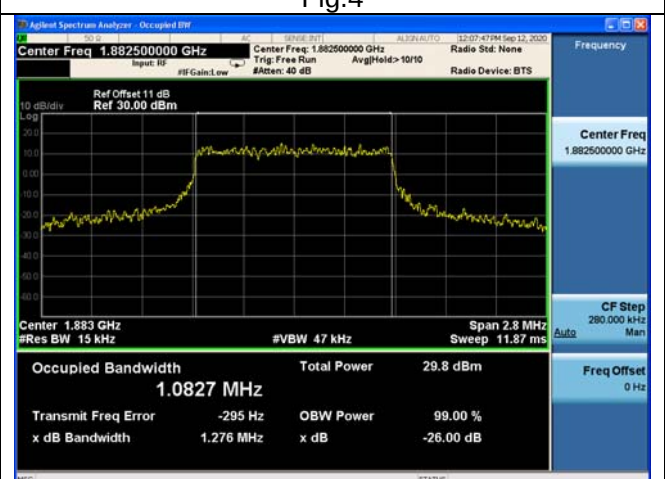


Fig.6

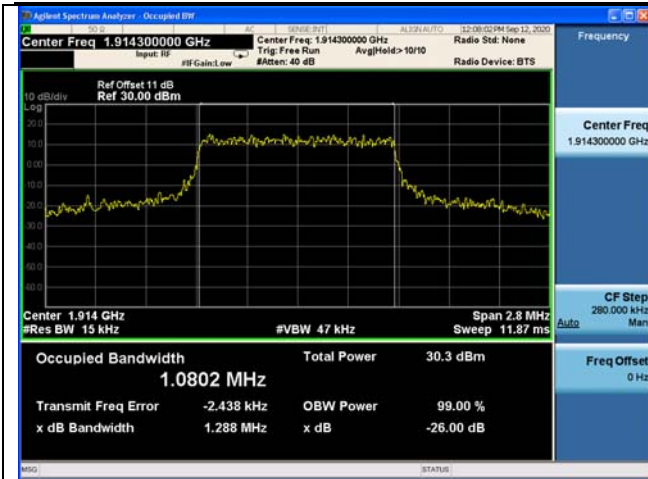


Fig.7

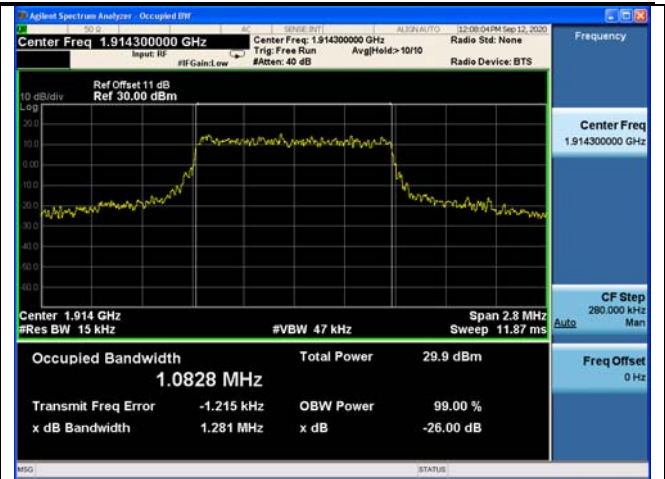


Fig.8

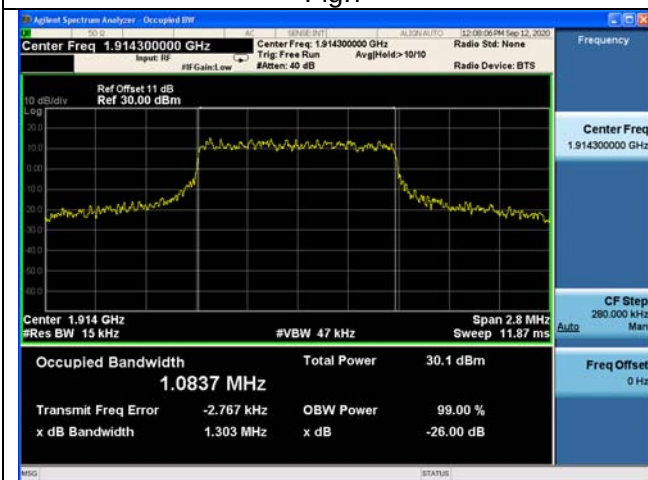


Fig.9

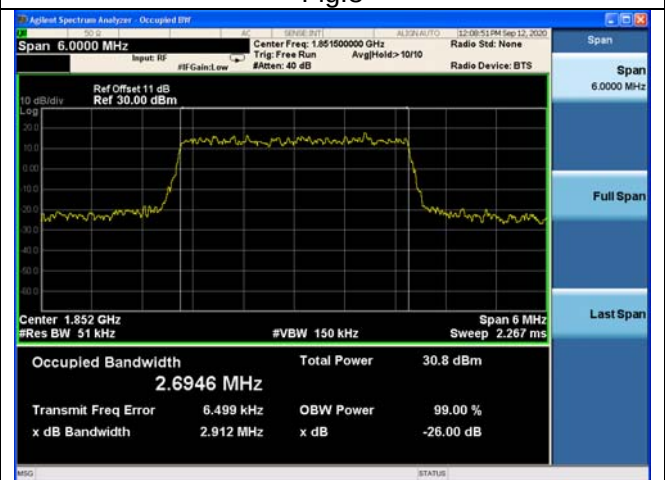


Fig.10

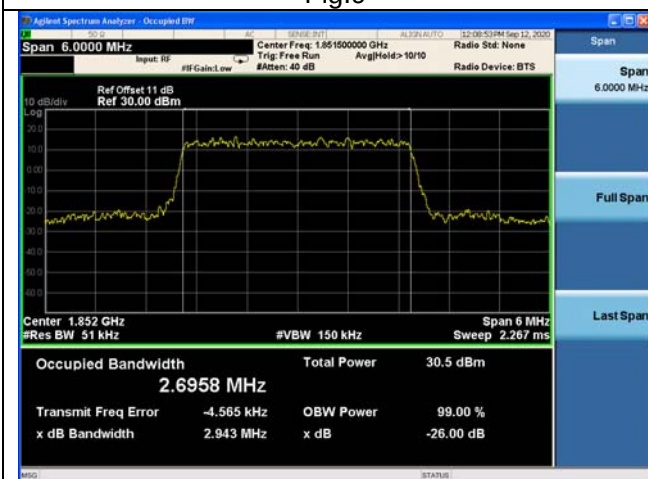


Fig.11

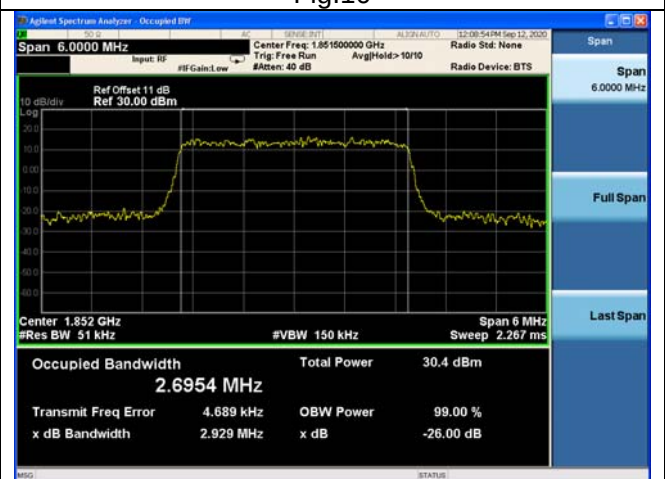


Fig.12

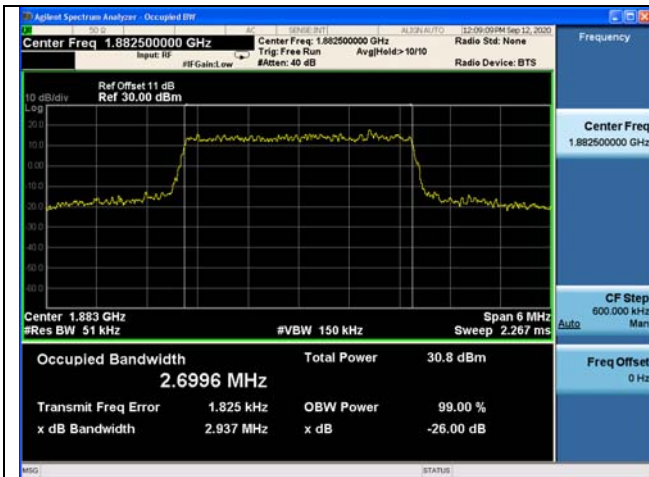


Fig.13



Fig.14

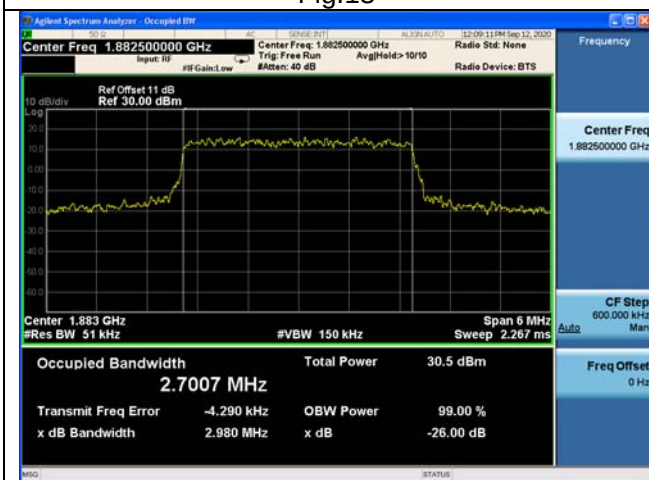


Fig.15

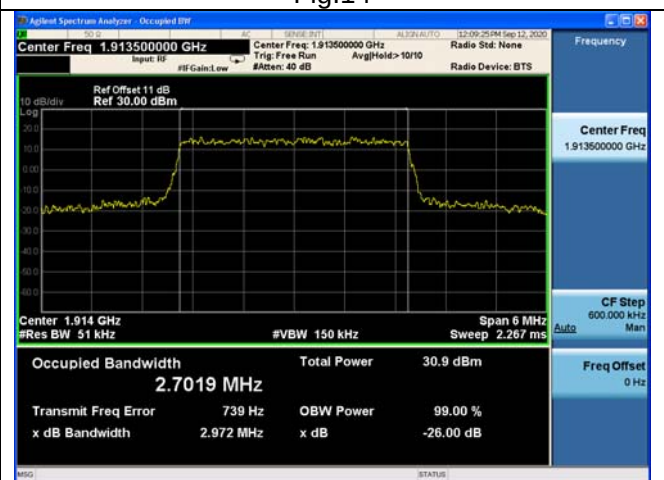


Fig.16

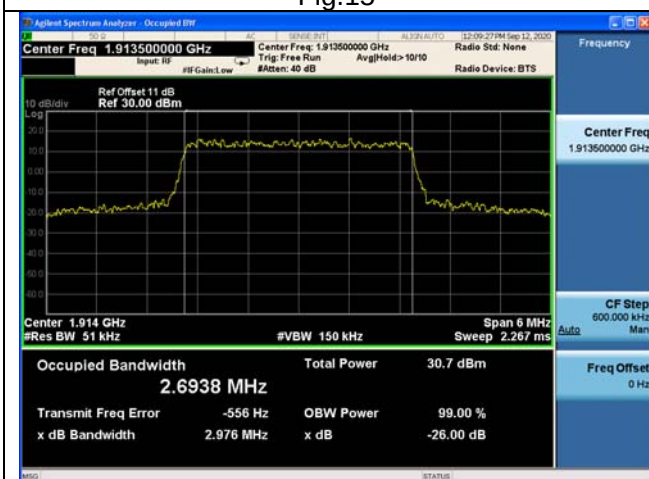


Fig.17

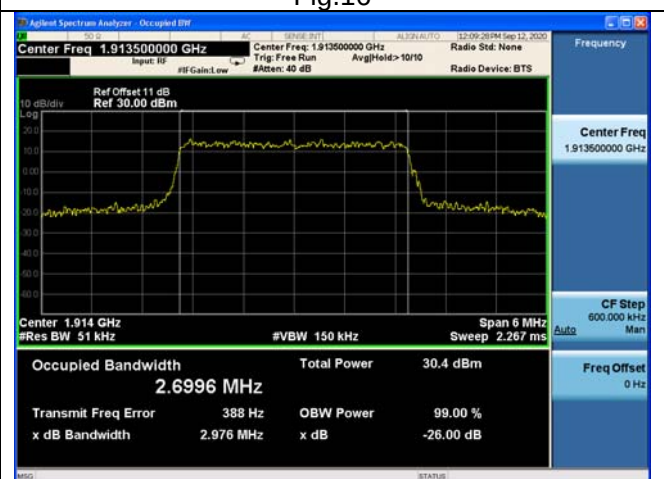


Fig.18

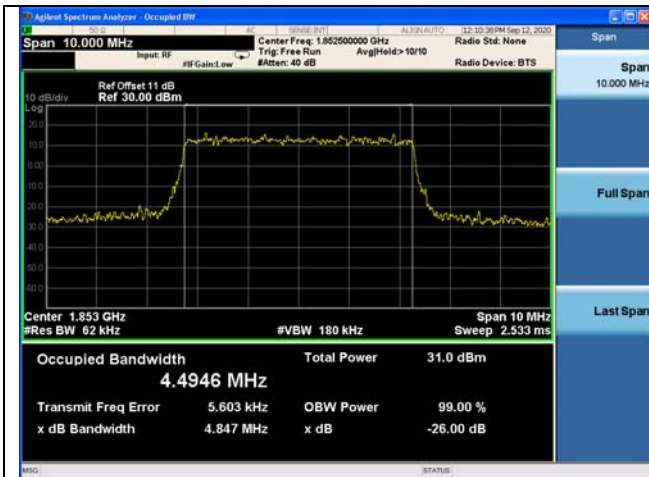


Fig.19

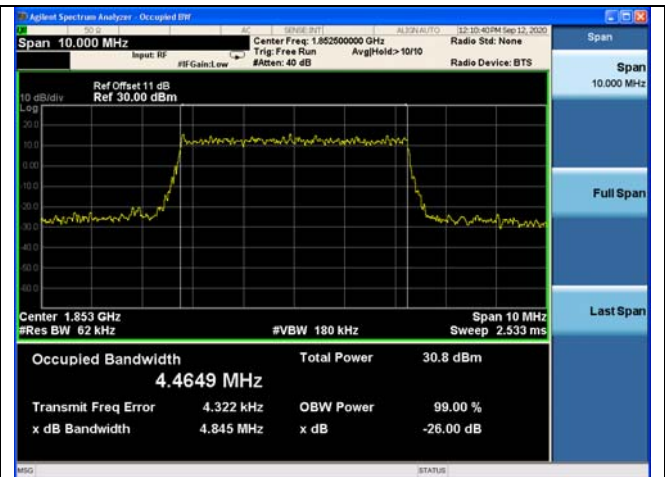


Fig.20

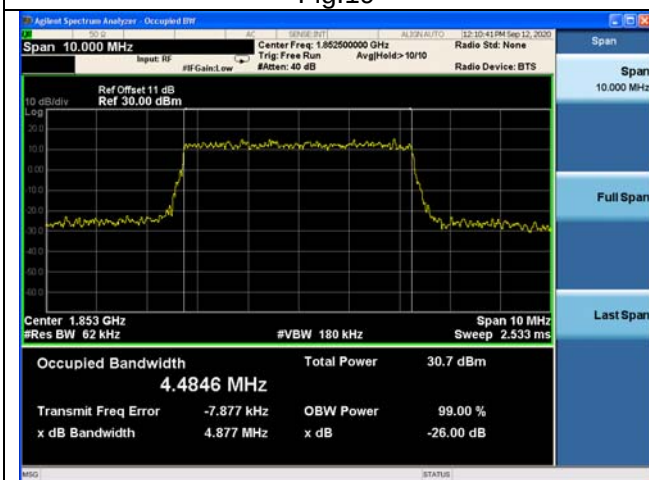


Fig.21

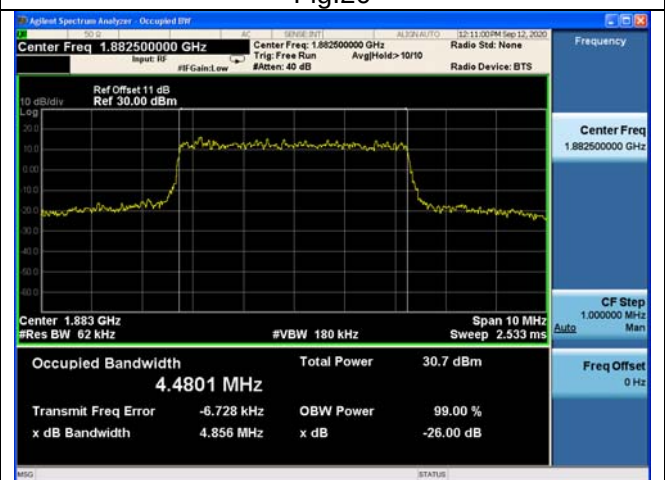


Fig.22

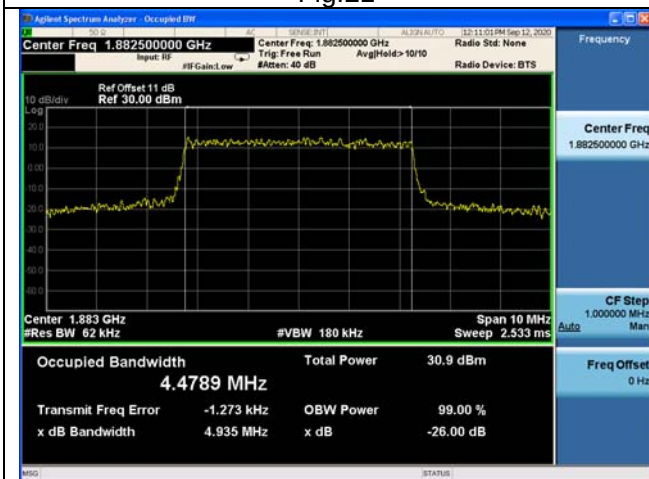


Fig.23

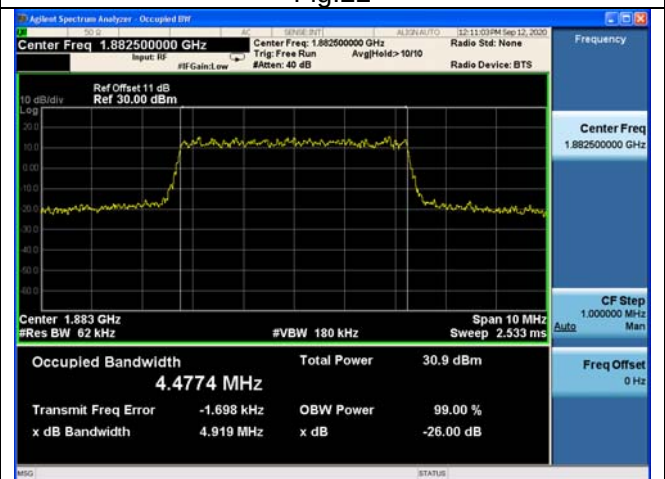


Fig.24

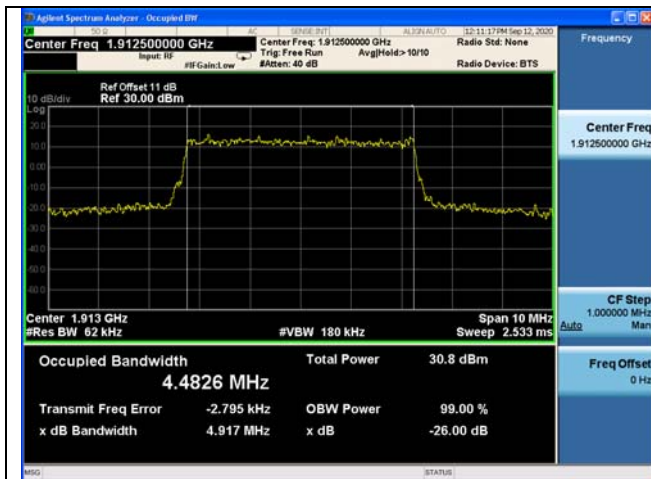


Fig.25



Fig.26

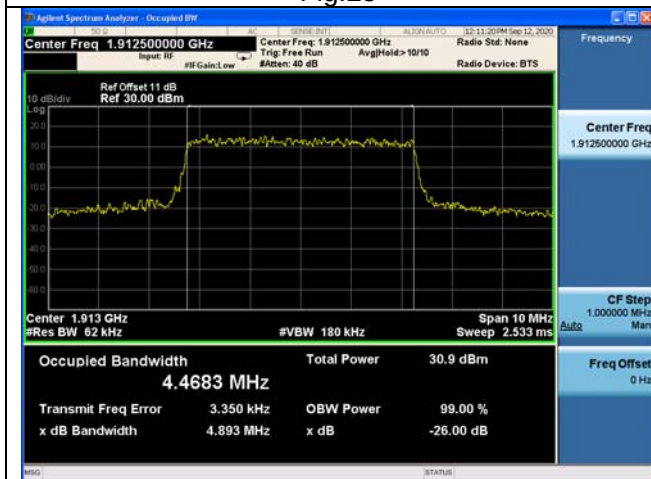


Fig.27

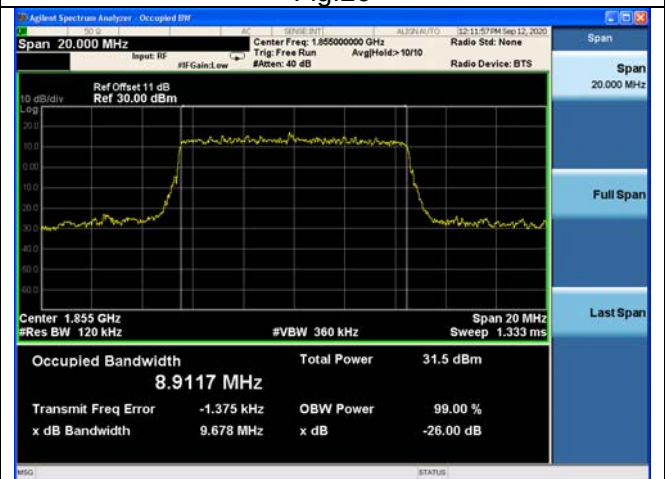


Fig.28

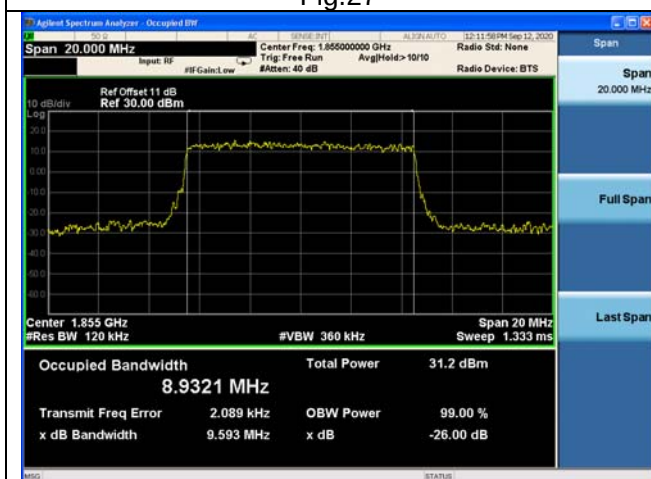


Fig.29

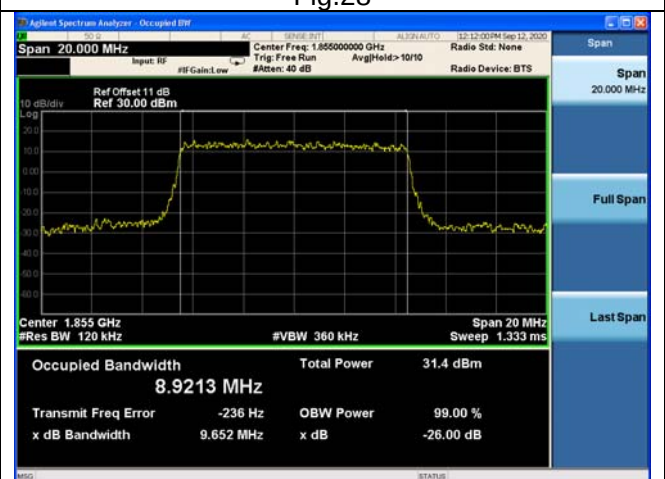


Fig.30

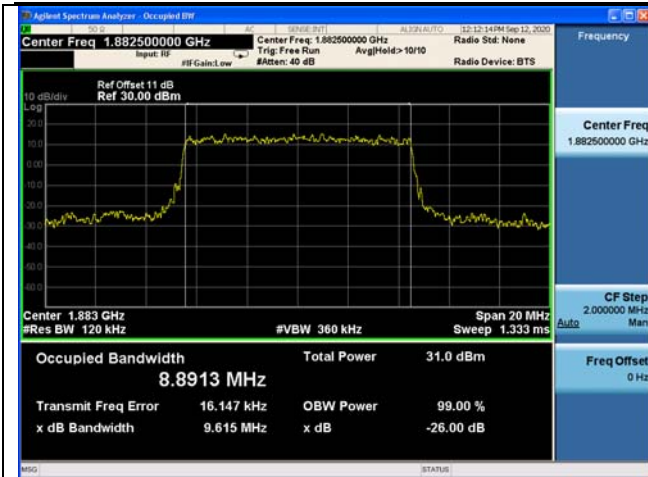


Fig.31



Fig.32

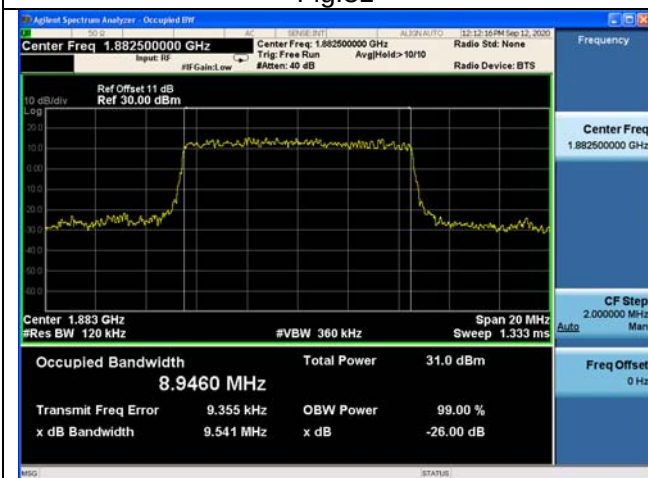


Fig.33

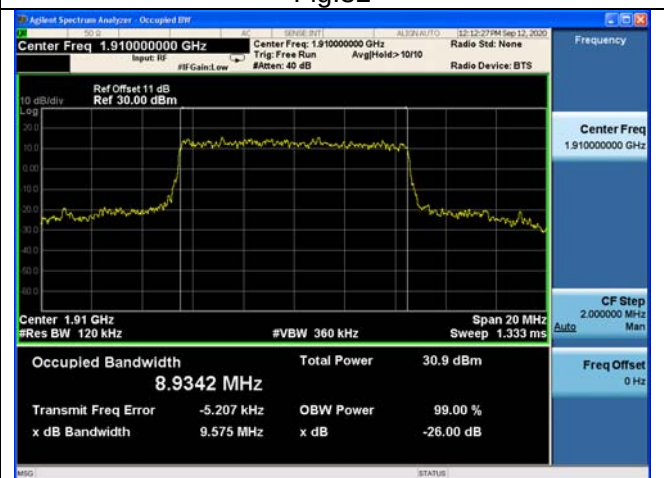


Fig.34

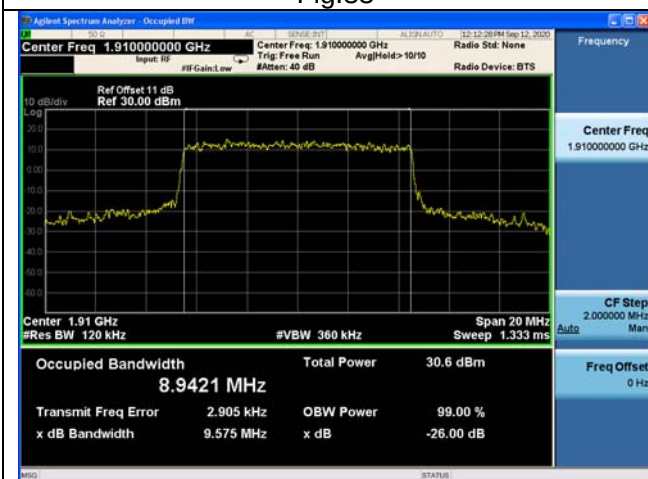


Fig.35

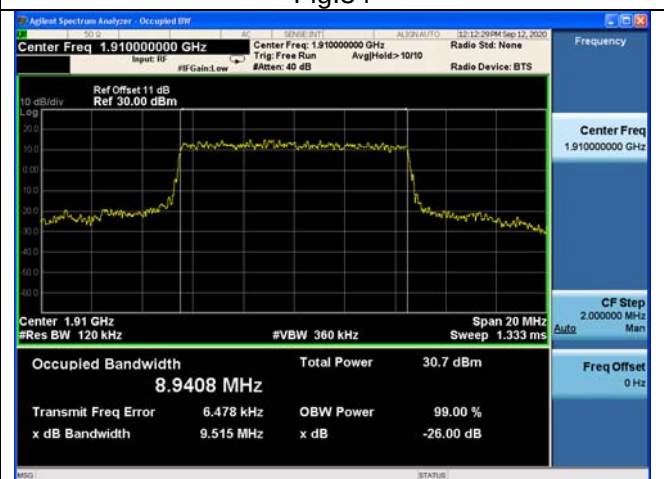


Fig.36

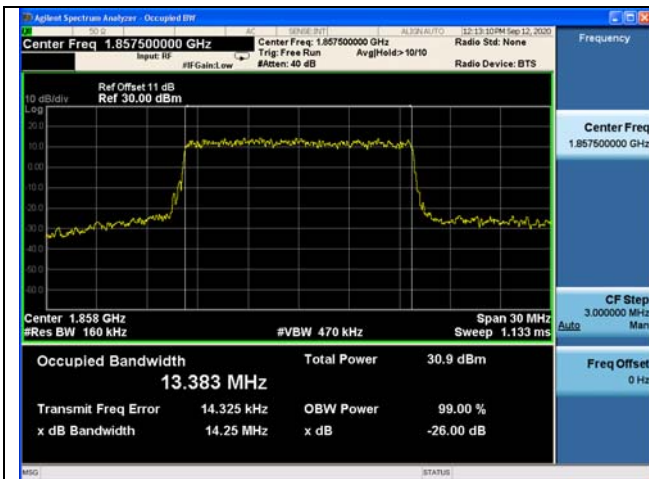


Fig.37

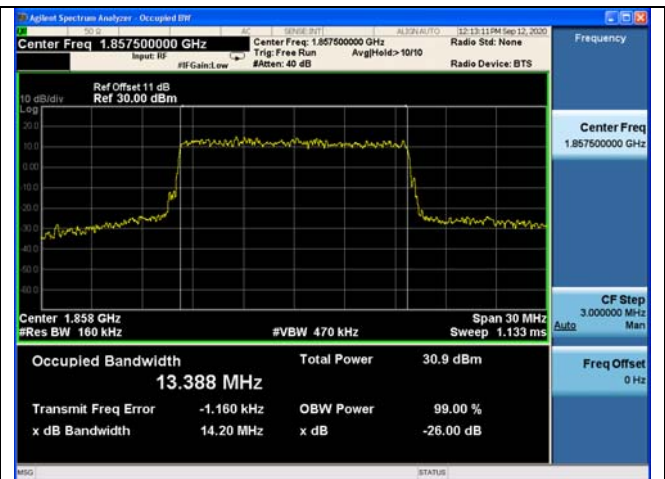


Fig.38

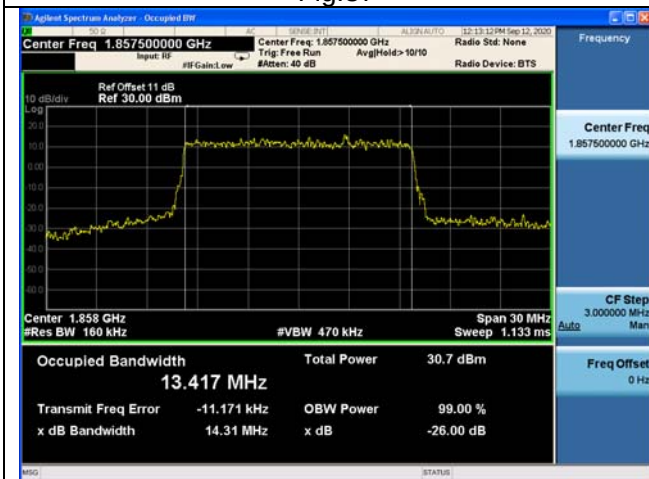


Fig.39

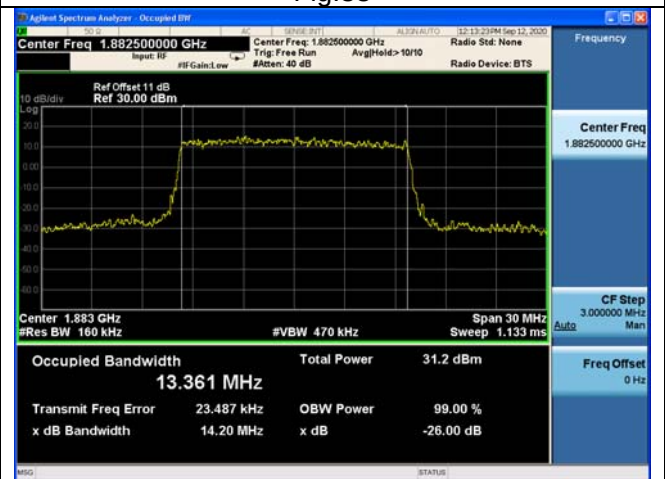


Fig.40

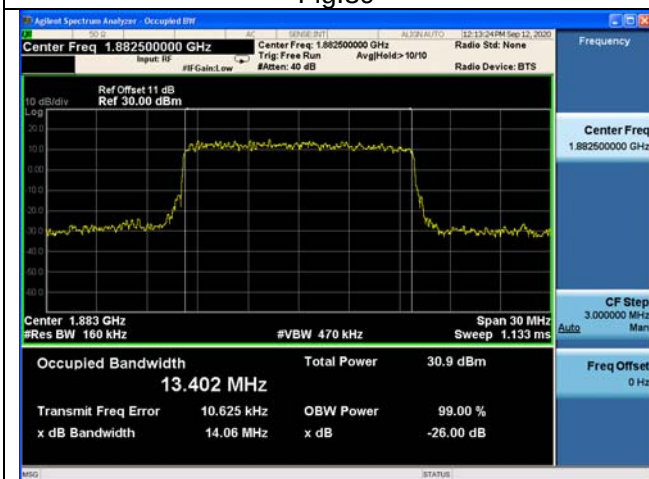


Fig.41

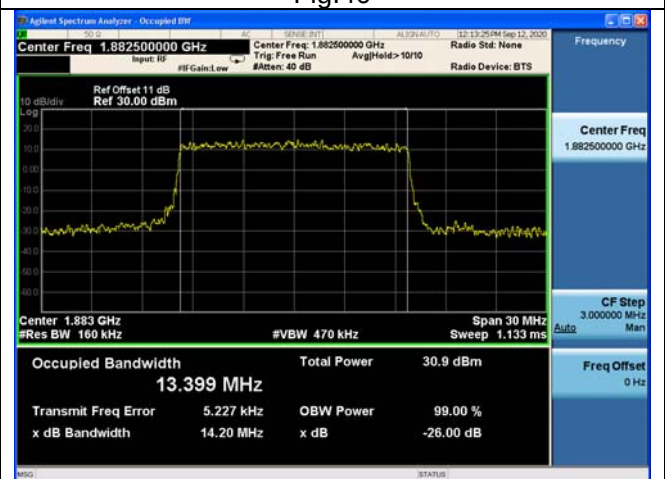


Fig.42

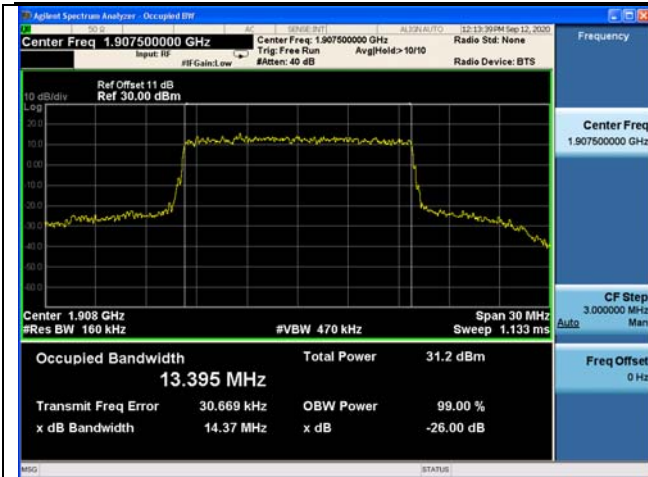


Fig.43



Fig.44

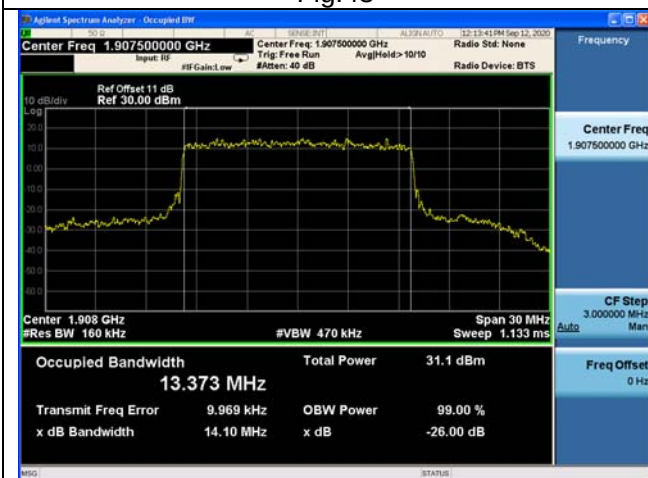


Fig.45



Fig.46

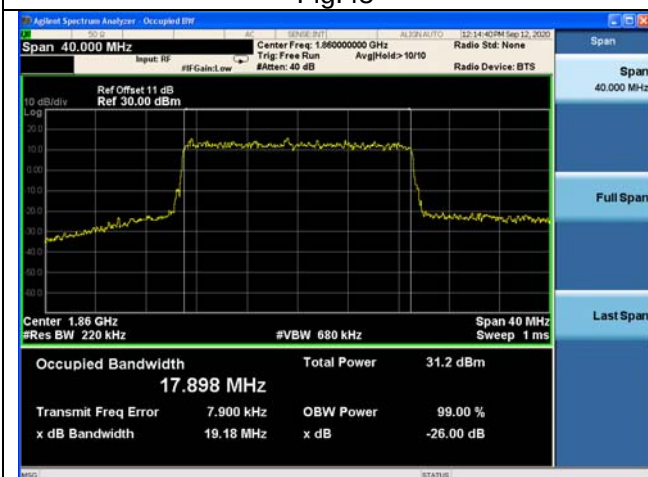


Fig.47

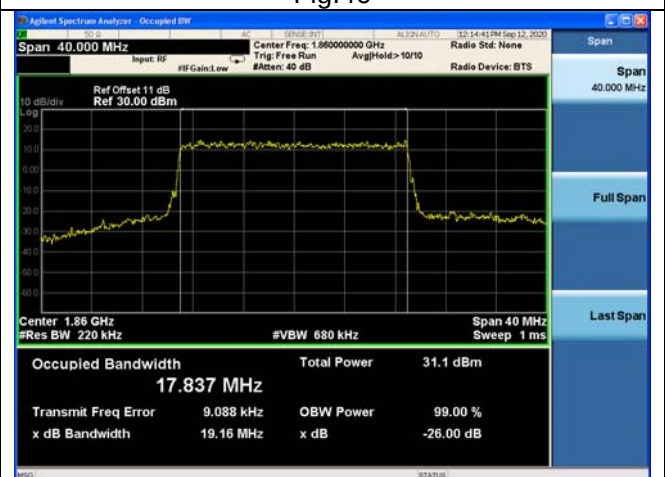


Fig.48

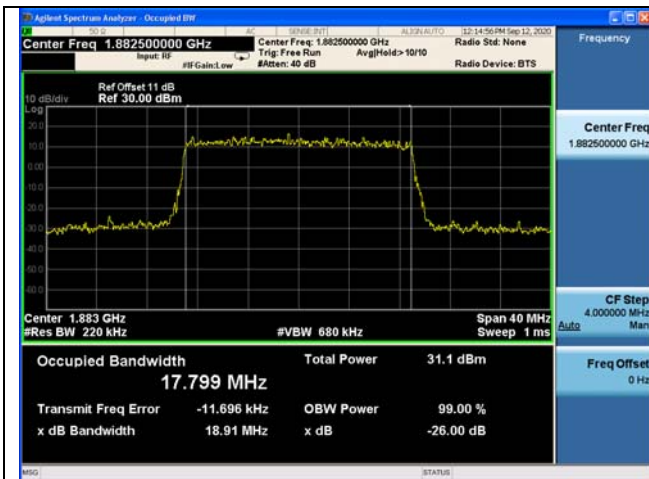


Fig.49



Fig.50

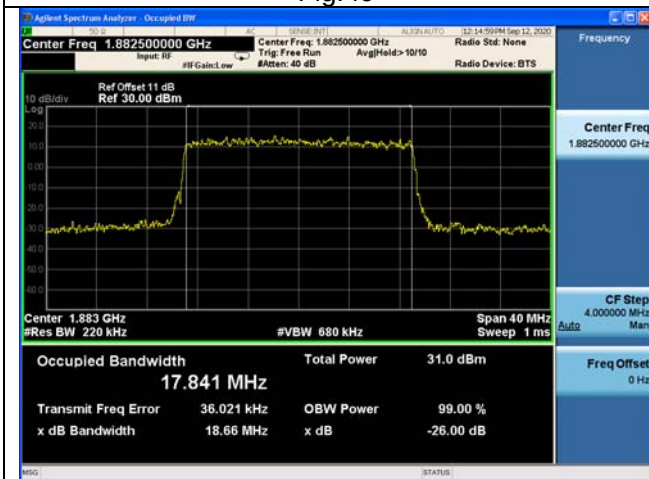


Fig.51



Fig.52

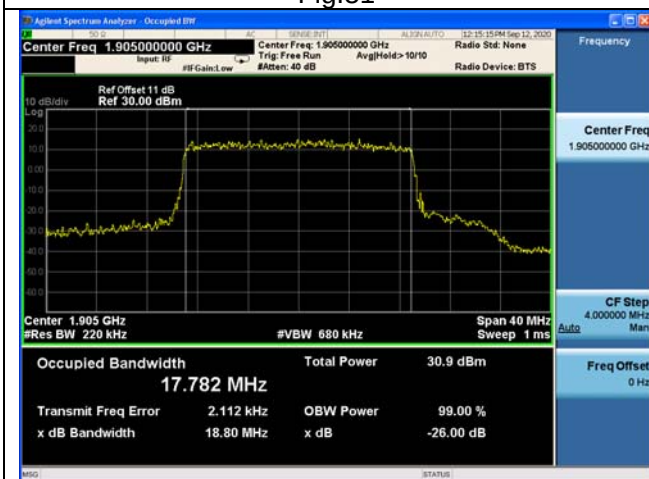


Fig.53

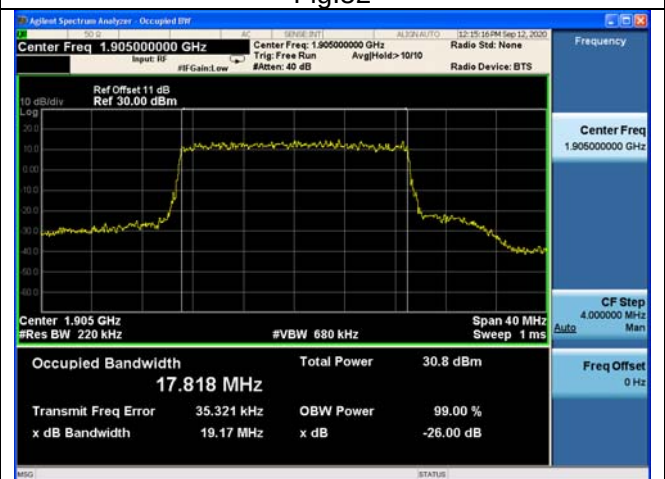


Fig.54

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
25	1882.5	26365	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

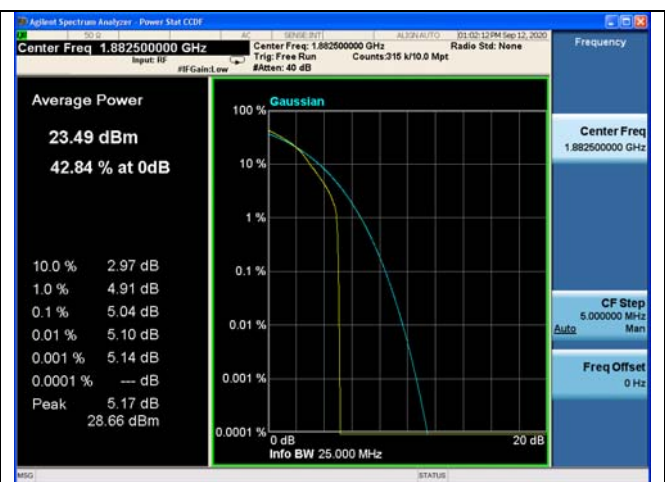


Fig.2



Fig.3



Fig.4

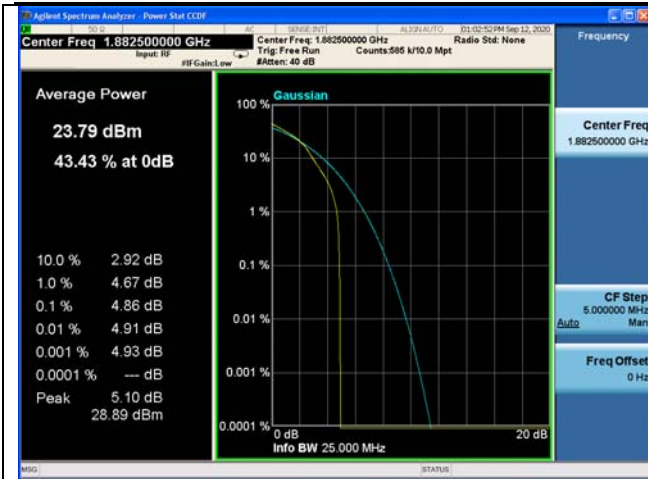


Fig.5

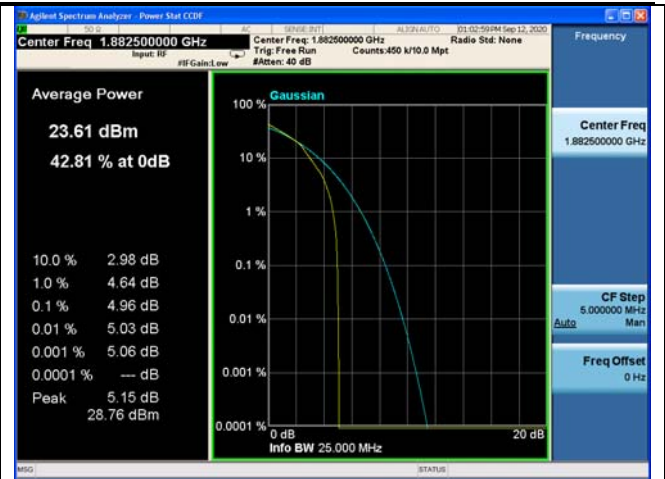


Fig.6



Fig.7



Fig.8



Fig.9

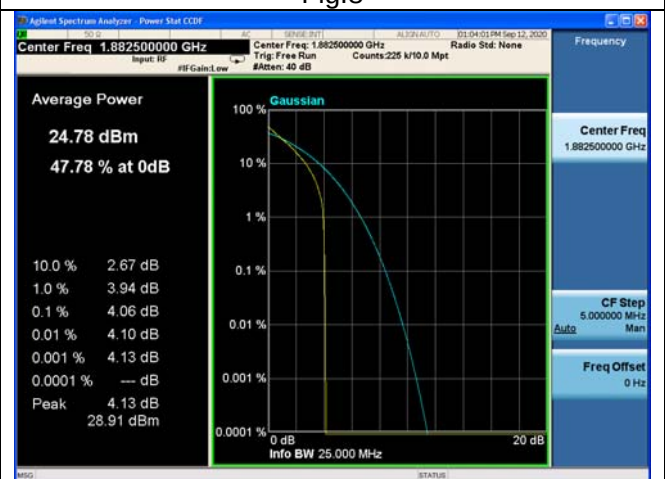


Fig.10



Fig.11

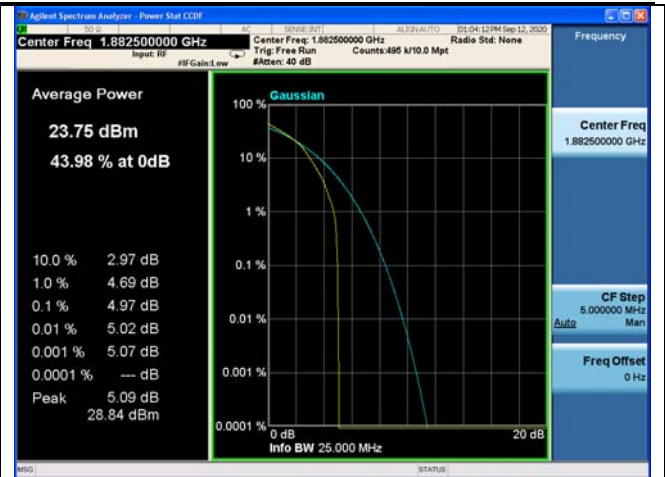


Fig.12



Fig.13

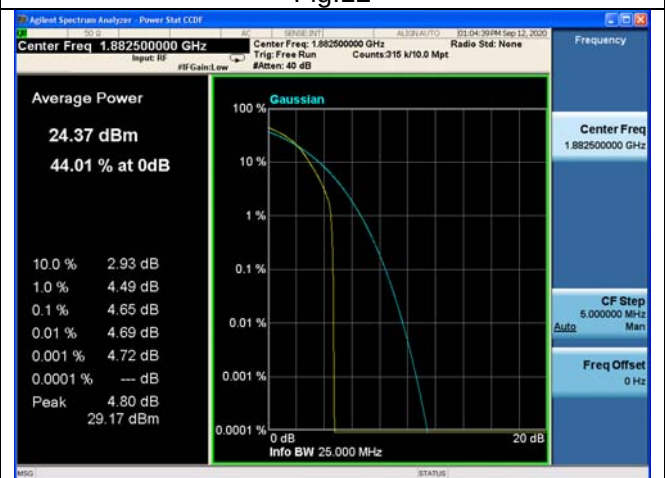


Fig.14



Fig.15



Fig.16

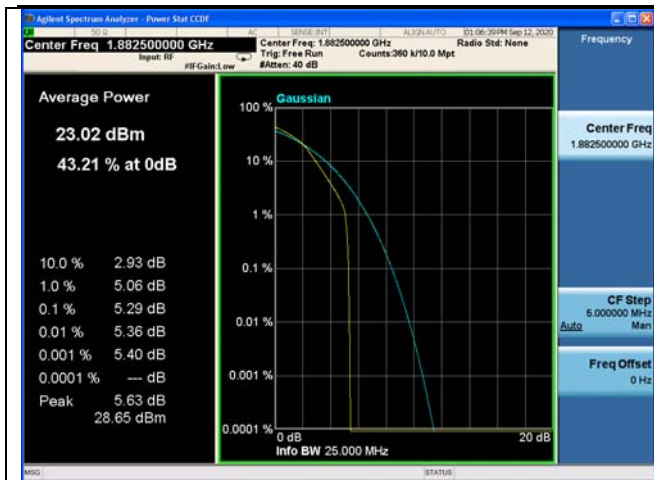


Fig.17



Fig.18

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
25	1860	26140	20	1	0	Fig.1-2
	1882.5	26365	20	1	0	Fig.3-4
	1905	26590	20	1	0	Fig.5-6

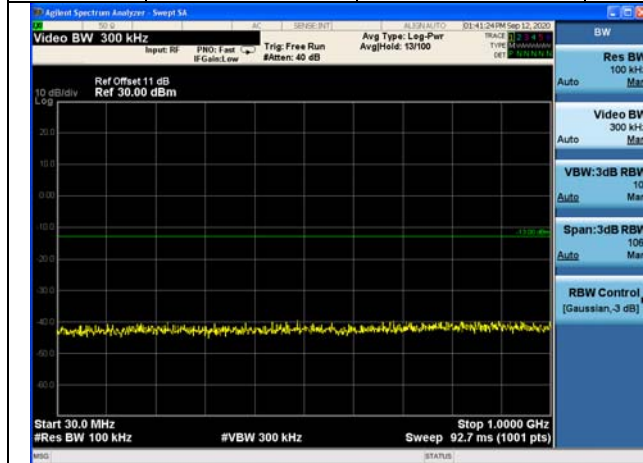


Fig.1

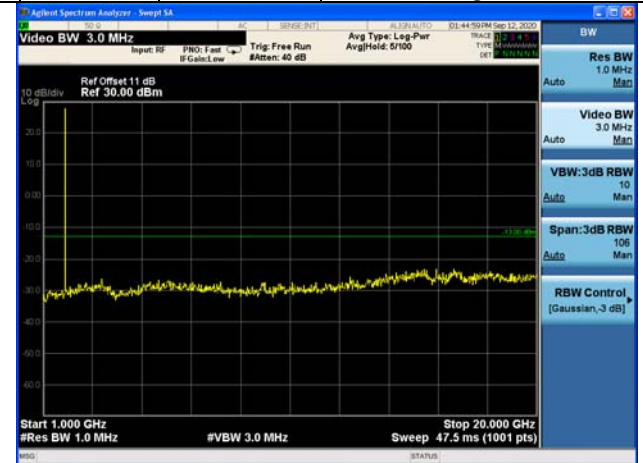


Fig.2

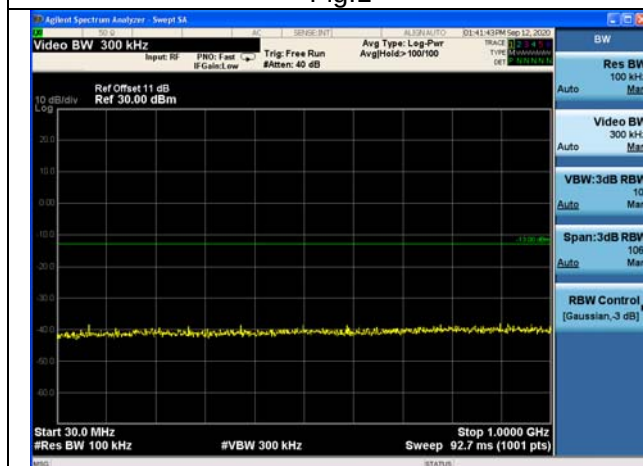


Fig3

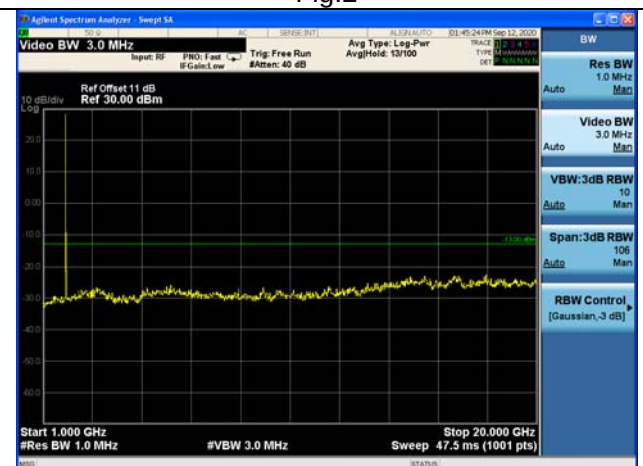


Fig4

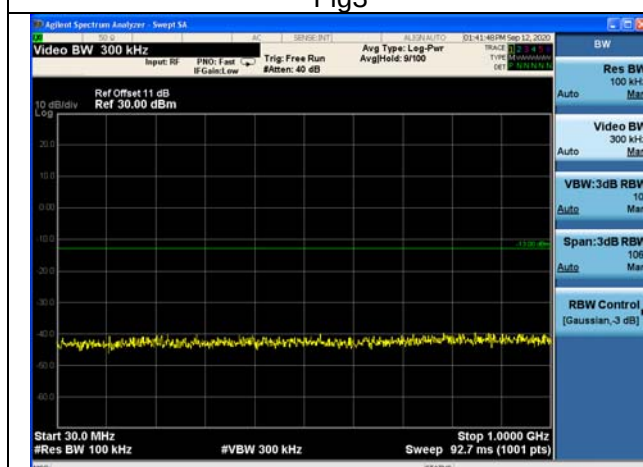


Fig5

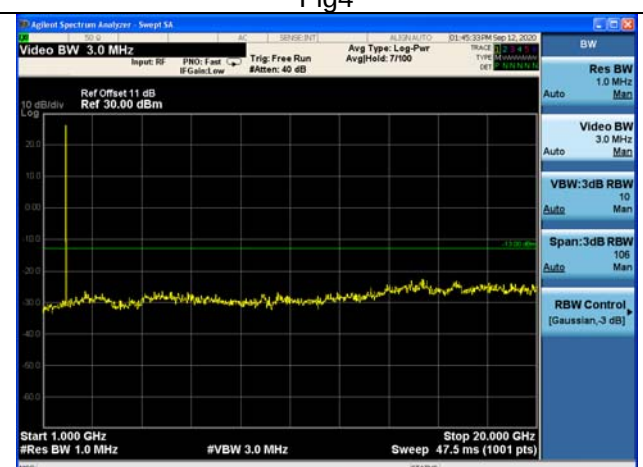


Fig6

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
25	1850.7	26047	1.4	1	0	Fig.1
				6	0	Fig.2
	1914.3	26683		1	5	Fig.3
				6	0	Fig.4
	1851.5	26055	3	1	0	Fig.5
				15	0	Fig.6
	1913.5	26675		1	14	Fig.7
				15	0	Fig.8
	1852.5	26065	5	1	0	Fig.9
				25	0	Fig.10
	1912.5	26665		1	24	Fig.11
				25	0	Fig.12
	1855	26090	10	1	0	Fig.13
				50	0	Fig.14
	1910	26640		1	49	Fig.15
				50	0	Fig.16
	1857.5	26115	15	1	0	Fig.17
				75	0	Fig.18
	1907.5	26615		1	74	Fig.19
				75	0	Fig.20
	1860	26140	20	1	0	Fig.21
				100	0	Fig.22
	1905	26590		1	99	Fig.23
				100	0	Fig.24

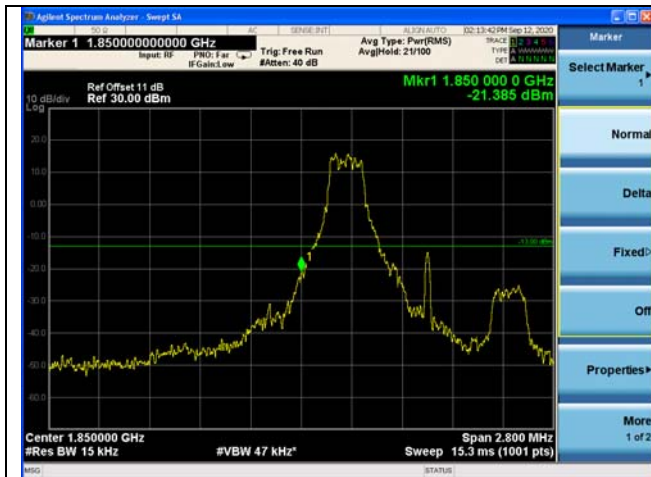


Fig.1



Fig.2

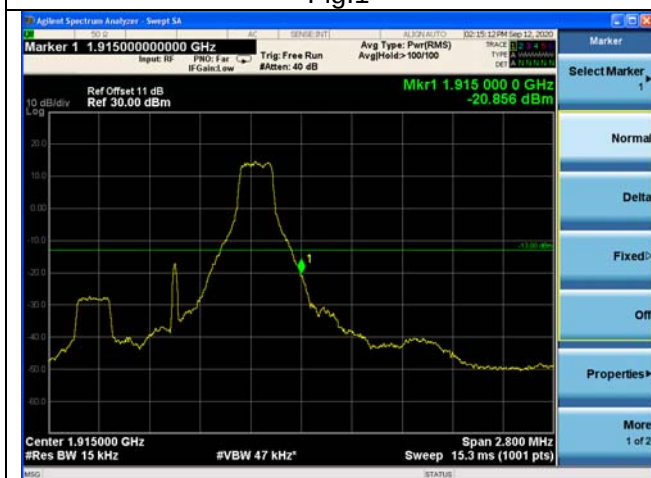


Fig.3



Fig.4

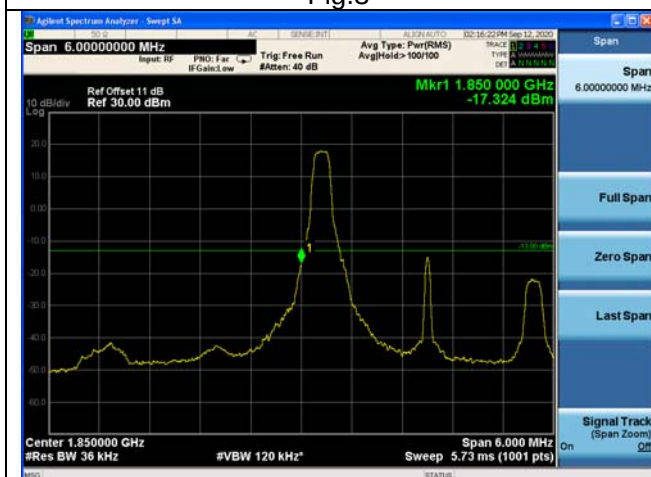


Fig.5

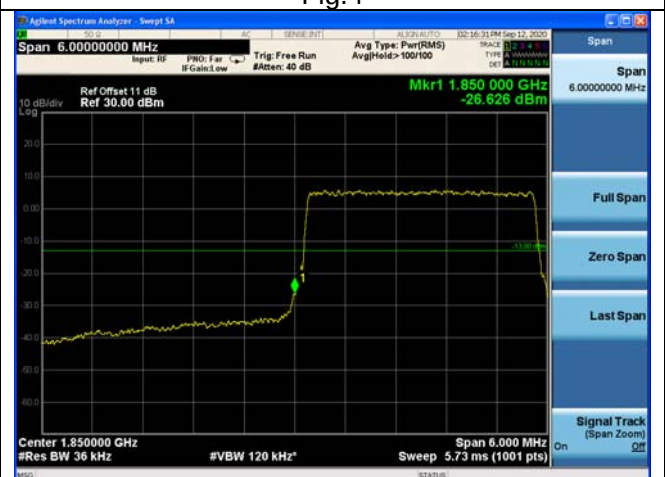


Fig.6

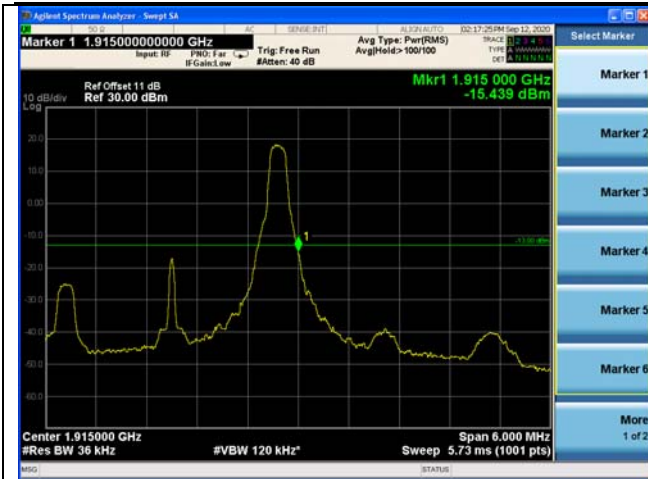


Fig.7



Fig.8

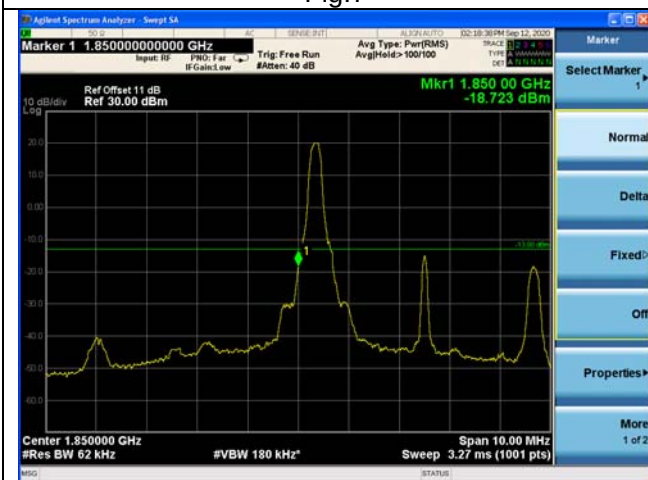


Fig.9

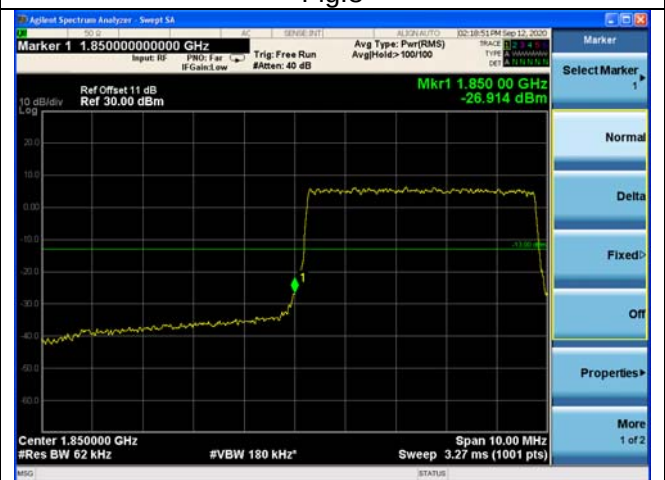


Fig.10



Fig.11



Fig.12

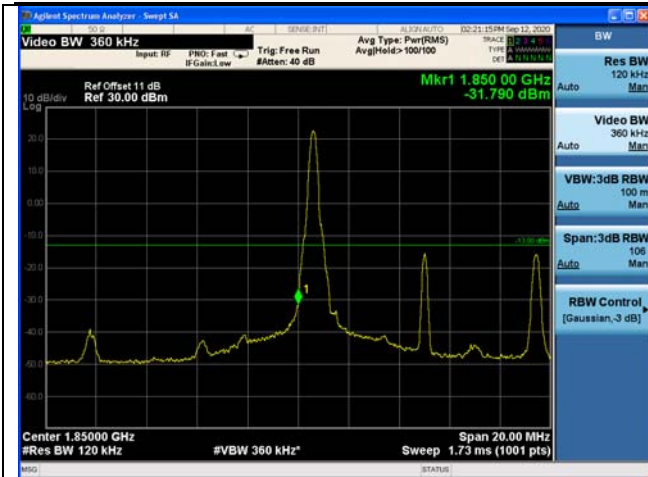


Fig.13



Fig.14

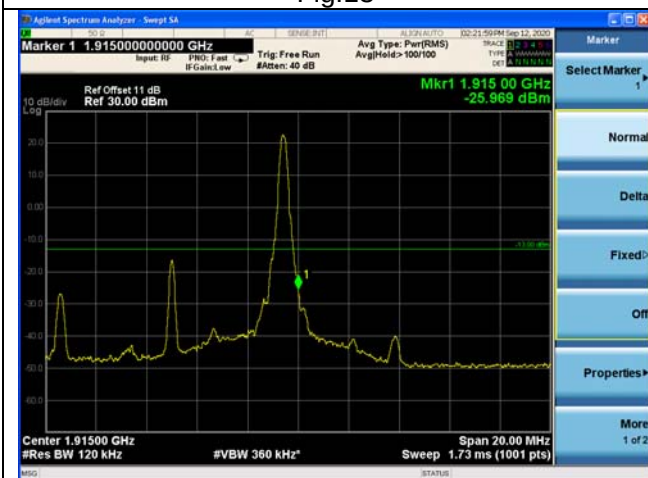


Fig.15



Fig.16

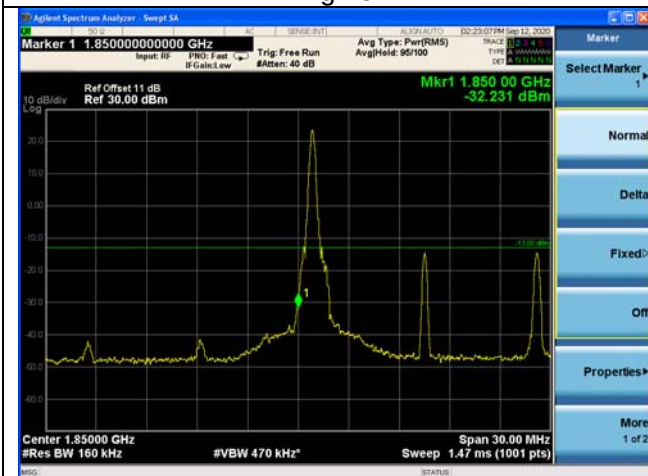


Fig.17



Fig.18

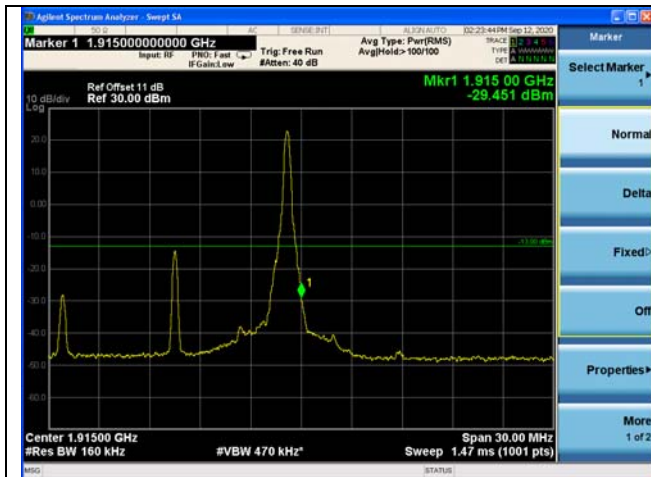


Fig.19



Fig.20

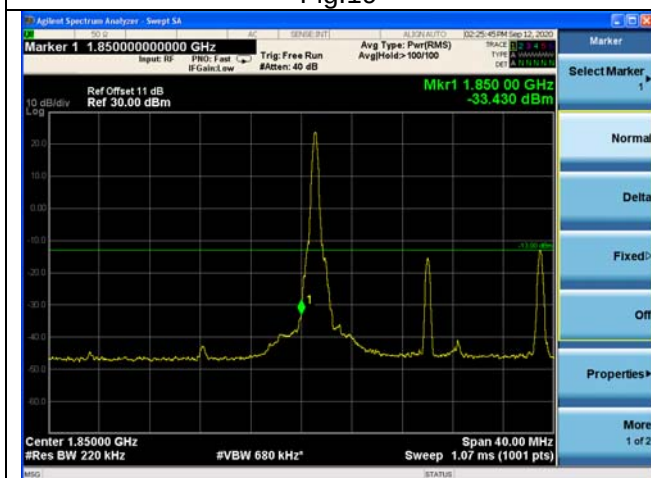


Fig.21



Fig.22

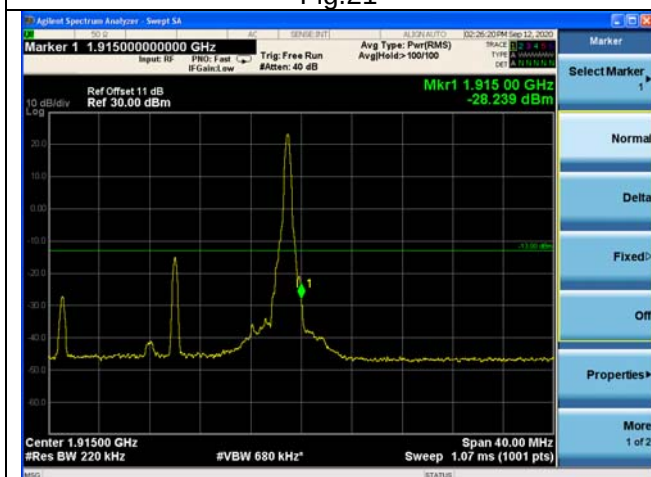


Fig.23



Fig.24

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band25 Low Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.050	-0.040	-0.033	-0.033	0.035	-0.040
0	NV	0.019	-0.005	0.002	-0.006	0.013	0.046
+10	NV	0.015	-0.002	0.016	-0.004	-0.005	0.003
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	0.007	0.049	-0.029	0.022	0.049	0.002
+40	NV	-0.036	0.021	-0.028	0.047	-0.015	0.044
+50	NV	-0.013	0.021	0.021	0.023	0.004	-0.018
+55	NV	0.034	-0.023	-0.045	0.047	-0.007	-0.027
+20	LV	0.025	0.007	0.049	-0.019	-0.001	-0.021
+20	HV	-0.021	0.027	0.004	-0.028	-0.014	0.029

Temperature(°C)	Voltage	Test Result (ppm) Band25 High Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	-0.026	0.046	-0.010	-0.013	0.036	0.047
0	NV	0.037	-0.049	-0.038	0.027	0.029	-0.028
+10	NV	0.017	-0.011	0.043	-0.034	-0.028	0.024
+20	NV	0.000	0.000	0.000	0.000	0.000	0.000
+30	NV	-0.044	-0.033	-0.017	0.012	0.013	0.050
+40	NV	-0.013	0.043	-0.011	-0.006	0.048	0.033
+50	NV	0.049	-0.004	0.031	0.013	-0.004	-0.015
+55	NV	0.035	0.020	0.038	0.033	0.002	0.005
+20	LV	0.016	0.005	-0.023	-0.019	0.027	0.030
+20	HV	-0.012	0.014	-0.025	0.051	0.043	0.020