

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

E-UTRA Power Output						
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	24.20
				1	5	24.02
				3	2	23.02
				6	0	23.22
	1880	18900		1	0	24.48
				1	5	24.01
				3	2	23.47
				6	0	22.98
	1909.3	19193		1	0	24.07
				1	5	23.80
				3	2	23.14
				6	0	23.37
16QAM	1850.7	18607	1.4	1	0	23.88
				1	5	23.76
				3	2	21.84
				6	0	22.30
	1880	18900		1	0	23.42
				1	5	23.18
				3	2	22.05
				6	0	22.39
	1909.3	19193		1	0	23.40
				1	5	23.62
				3	2	22.14
				6	0	22.27
64QAM	1850.7	18607	1.4	1	0	23.34
				1	5	23.61
				3	2	22.20
				6	0	22.04
	1880	18900		1	0	22.77
				1	5	23.08
				3	2	21.95
				6	0	21.99
	1909.3	19193		1	0	23.13
				1	5	23.47
				3	2	21.92
				6	0	22.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	24.36
				1	14	23.97
				8	4	23.21
				15	0	22.95
	1880	18900		1	0	24.13
				1	14	24.26
				8	4	23.44
				15	0	23.05
	1908.5	19185		1	0	24.13
				1	14	24.17
				8	4	23.30
				15	0	23.35
16QAM	1851.5	18615	3	1	0	23.80
				1	14	23.81
				8	4	22.20
				15	0	22.24
	1880	18900		1	0	23.52
				1	14	23.43
				8	4	22.26
				15	0	21.94
	1908.5	19185		1	0	23.47
				1	14	23.42
				8	4	22.20
				15	0	21.92
64QAM	1851.5	18615	3	1	0	23.37
				1	14	23.18
				8	4	22.11
				15	0	22.31
	1880	18900		1	0	22.81
				1	14	23.20
				8	4	21.90
				15	0	22.28
	1908.5	19185		1	0	23.14
				1	14	23.49
				8	4	22.12
				15	0	22.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	23.96
				1	24	24.40
				12	6	22.91
				25	0	23.23
	1880	18900		1	0	24.22
				1	24	24.10
				12	6	23.20
				25	0	23.25
	1907.5	19175		1	0	24.22
				1	24	24.17
				12	6	23.27
				25	0	23.26
16QAM	1852.5	18625	5	1	0	23.94
				1	24	23.75
				12	6	22.32
				25	0	22.05
	1880	18900		1	0	23.33
				1	24	23.30
				12	6	22.31
				25	0	21.98
	1907.5	19175		1	0	23.49
				1	24	23.64
				12	6	22.00
				25	0	22.27
64QAM	1852.5	18625	5	1	0	23.30
				1	24	23.57
				12	6	22.11
				25	0	22.11
	1880	18900		1	0	22.88
				1	24	23.07
				12	6	21.88
				25	0	22.21
	1907.5	19175		1	0	23.05
				1	24	23.05
				12	6	22.23
				25	0	22.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	24.22
				1	49	24.35
				24	12	23.15
				50	0	23.33
	1880	18900		1	0	24.31
				1	49	24.07
				24	12	23.21
				50	0	23.12
	1905	19150		1	0	24.03
				1	49	23.82
				24	12	23.06
				50	0	23.30
16QAM	1855	18650	10	1	0	23.45
				1	49	23.64
				24	12	22.15
				50	0	22.19
	1880	18900		1	0	23.23
				1	49	23.11
				24	12	22.34
				50	0	22.20
	1905	19150		1	0	23.68
				1	49	23.48
				24	12	21.88
				50	0	22.04
64QAM	1855	18650	10	1	0	23.61
				1	49	23.30
				24	12	22.33
				50	0	21.99
	1880	18900		1	0	22.92
				1	49	22.77
				24	12	22.28
				50	0	21.85
	1905	19150		1	0	23.00
				1	49	23.43
				24	12	21.96
				50	0	21.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	23.99
				1	74	24.04
				40	18	23.00
				75	0	23.40
	1880	18900		1	0	24.01
				1	74	24.26
				40	18	23.20
				75	0	23.12
	1902.5	19125		1	0	24.13
				1	74	24.08
				40	18	22.90
				75	0	23.29
16QAM	1857.5	18675	15	1	0	23.75
				1	74	23.60
				40	18	22.06
				75	0	22.28
	1880	18900		1	0	23.32
				1	74	23.25
				40	18	22.30
				75	0	22.34
	1902.5	19125		1	0	23.68
				1	74	23.38
				40	18	21.83
				75	0	22.21
64QAM	1857.5	18675	15	1	0	23.57
				1	74	23.48
				40	18	21.96
				75	0	22.21
	1880	18900		1	0	23.10
				1	74	23.21
				40	18	22.18
				75	0	22.17
	1902.5	19125		1	0	23.28
				1	74	23.21
				40	18	22.26
				75	0	21.94

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	24.44
				1	99	24.44
				50	25	23.40
				100	0	23.41
	1880	18900		1	0	24.50
				1	99	24.50
				50	25	23.49
				100	0	23.38
	1900	19100		1	0	24.28
				1	99	24.28
				50	25	23.37
				100	0	23.42
16QAM	1860	18700	20	1	0	23.95
				1	99	23.95
				50	25	22.33
				100	0	22.40
	1880	18900		1	0	23.52
				1	99	23.52
				50	25	22.36
				100	0	22.39
	1900	19100		1	0	23.81
				1	99	23.81
				50	25	22.28
				100	0	22.34
64QAM	1860	18700	20	1	0	23.64
				1	99	23.64
				50	25	22.35
				100	0	22.32
	1880	18900		1	0	23.26
				1	99	23.26
				50	25	22.38
				100	0	22.31
	1900	19100		1	0	23.50
				1	99	23.50
				50	25	22.38
				100	0	22.30

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	
2	1850.7	18607	1.4	6	0	1.0772	Fig.1	1.0790	Fig.2	1.0783	Fig.3
	1880.0	18900		6	0	1.0806	Fig.4	1.0799	Fig.5	1.0778	Fig.6
	1909.3	19193		6	0	1.0815	Fig.7	1.0805	Fig.8	1.0800	Fig.9
	1851.5	18615	3	15	0	2.7005	Fig.10	2.7010	Fig.11	2.7062	Fig.12
	1880.0	18900		15	0	2.7023	Fig.13	2.7024	Fig.14	2.6953	Fig.15
	1908.5	19185		15	0	2.6998	Fig.16	2.6991	Fig.17	2.7085	Fig.18
	1852.5	18625	5	25	0	4.4750	Fig.19	4.4638	Fig.20	4.4734	Fig.21
	1880.0	18900		25	0	4.4802	Fig.22	4.4807	Fig.23	4.4763	Fig.24
	1907.5	19175		25	0	4.4757	Fig.25	4.4688	Fig.26	4.4799	Fig.27
	1855	18650	10	50	0	8.9443	Fig.28	8.9430	Fig.29	8.9684	Fig.30
	1880	18900		50	0	8.9553	Fig.31	8.9246	Fig.32	8.9559	Fig.33
	1905	19150		50	0	8.9357	Fig.34	8.9464	Fig.35	8.9534	Fig.36
	1857.5	18675	15	75	0	13.445	Fig.37	13.411	Fig.38	13.399	Fig.39
	1880.0	18900		75	0	13.418	Fig.40	13.379	Fig.41	13.388	Fig.42
	1902.5	19125		75	0	13.420	Fig.43	13.421	Fig.44	13.425	Fig.45
	1860	18700	20	100	0	17.894	Fig.46	17.905	Fig.47	17.874	Fig.48
	1880	18900		100	0	17.931	Fig.49	17.869	Fig.50	17.869	Fig.51
	1900	19100		100	0	17.934	Fig.52	17.899	Fig.53	17.885	Fig.54

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.239	Fig.1	1.241	Fig.2	1.231	Fig.3
	1880.0	18900		6	0	1.269	Fig.4	1.232	Fig.5	1.238	Fig.6
	1909.3	19193		6	0	1.258	Fig.7	1.230	Fig.8	1.235	Fig.9
	1851.5	18615	3	15	0	3.030	Fig.10	3.075	Fig.11	3.093	Fig.12
	1880.0	18900		15	0	3.030	Fig.13	3.104	Fig.14	3.085	Fig.15
	1908.5	19185		15	0	3.026	Fig.16	3.068	Fig.17	3.023	Fig.18
	1852.5	18625	5	25	0	5.209	Fig.19	5.168	Fig.20	5.157	Fig.21
	1880.0	18900		25	0	5.147	Fig.22	4.949	Fig.23	5.027	Fig.24
	1907.5	19175		25	0	4.940	Fig.25	4.868	Fig.26	5.022	Fig.27
	1855	18650	10	50	0	9.675	Fig.28	9.698	Fig.29	9.726	Fig.30
	1880	18900		50	0	9.889	Fig.31	9.783	Fig.32	9.813	Fig.33
	1905	19150		50	0	9.879	Fig.34	9.713	Fig.35	9.693	Fig.36
	1857.5	18675	15	75	0	14.64	Fig.37	14.65	Fig.38	14.71	Fig.39
	1880.0	18900		75	0	14.52	Fig.40	14.84	Fig.41	14.54	Fig.42
	1902.5	19125		75	0	14.64	Fig.43	14.51	Fig.44	14.35	Fig.45
	1860	18700	20	100	0	19.63	Fig.46	19.37	Fig.47	19.32	Fig.48
	1880	18900		100	0	19.50	Fig.49	19.33	Fig.50	19.33	Fig.51
	1900	19100		100	0	19.36	Fig.52	19.59	Fig.53	19.64	Fig.54

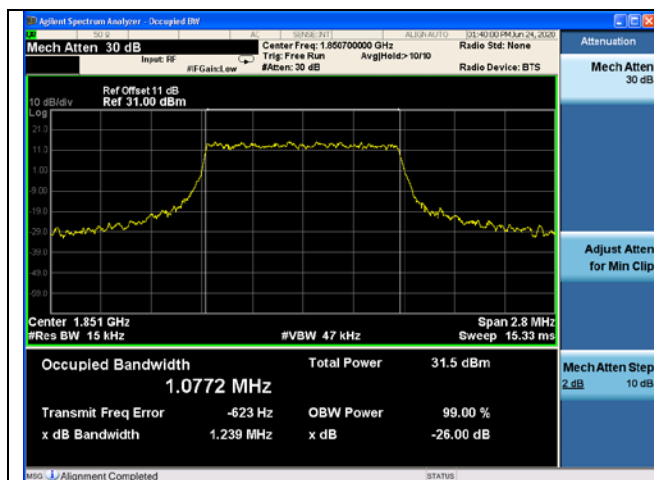


Fig.1

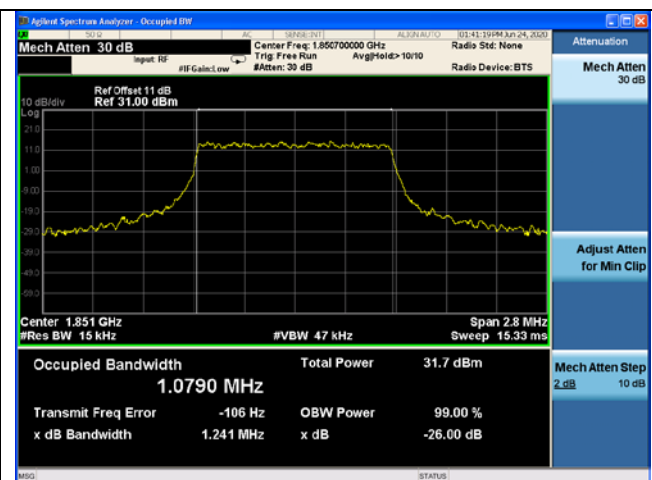


Fig.2

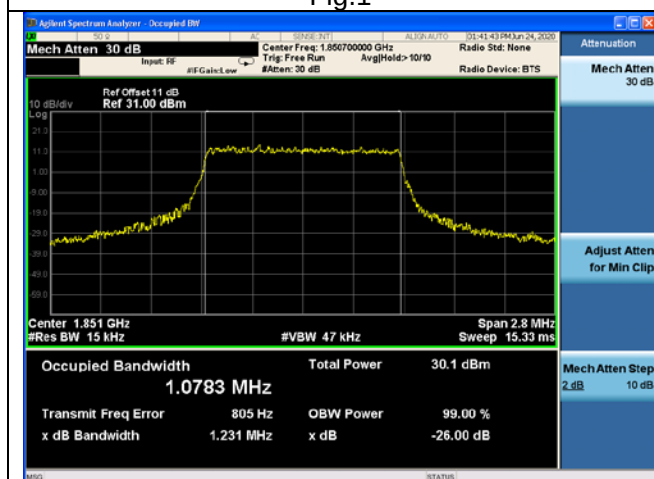


Fig.3

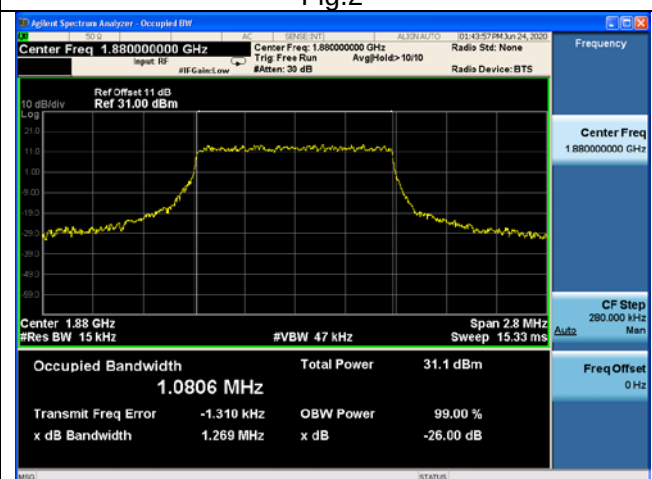


Fig.4

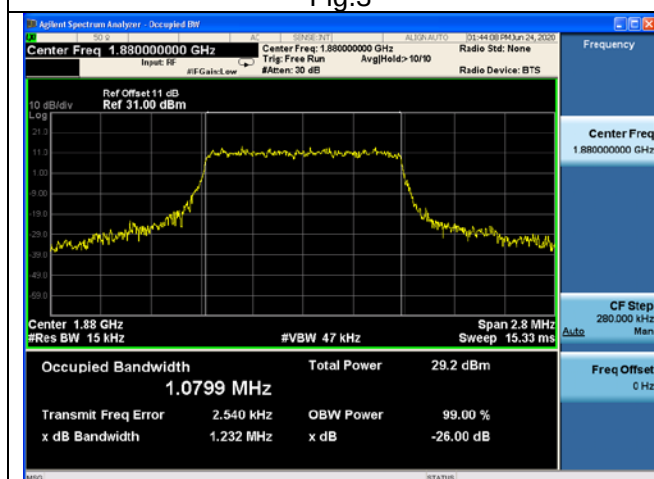


Fig.5

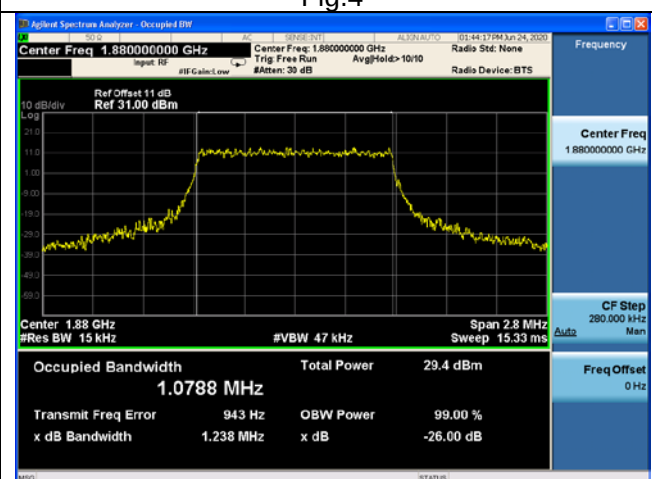


Fig.6

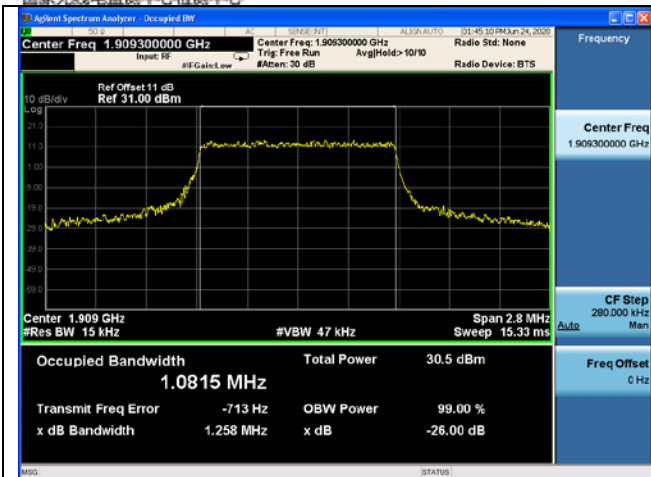


Fig.7

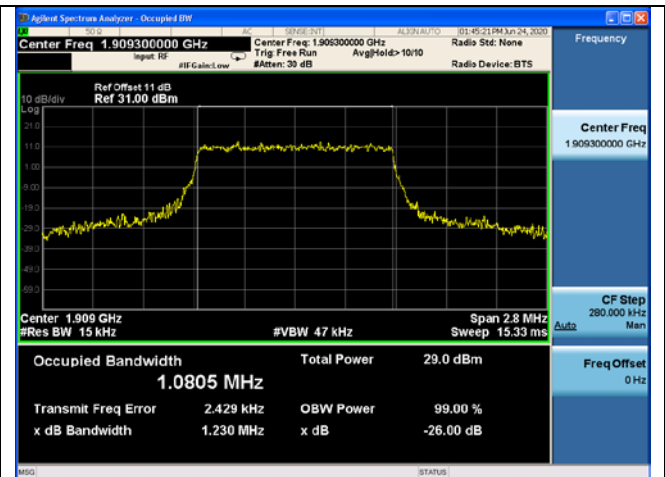


Fig.8

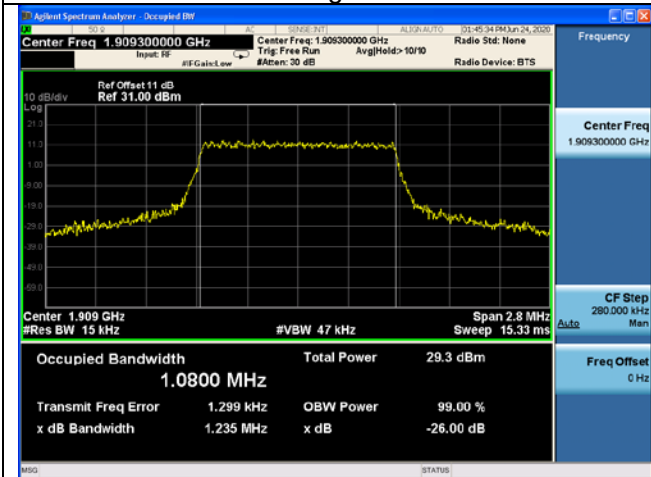


Fig.9

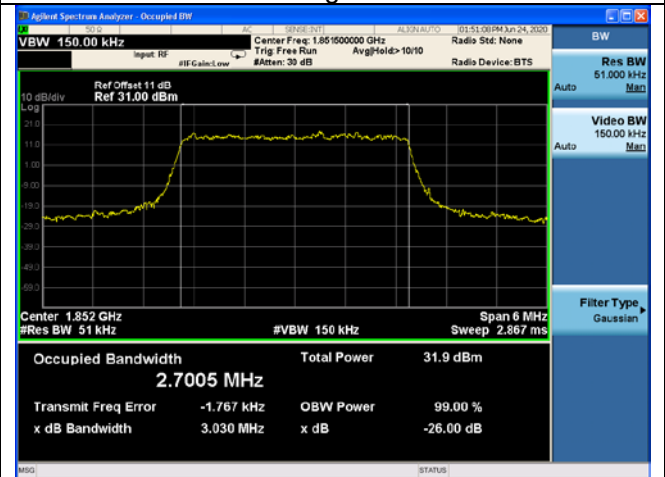


Fig.10

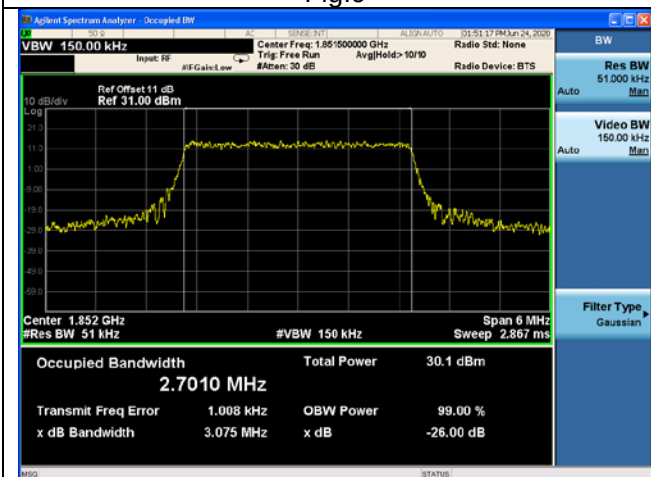


Fig.11

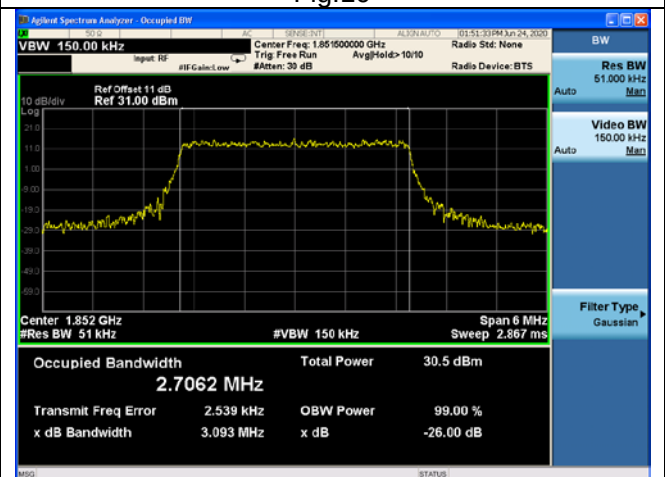


Fig.12

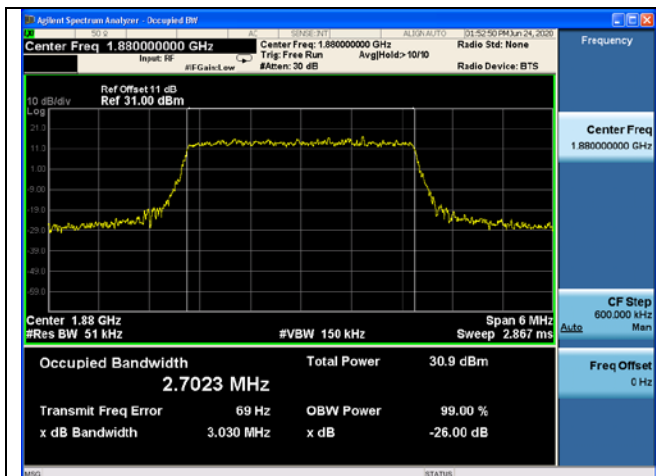


Fig.13

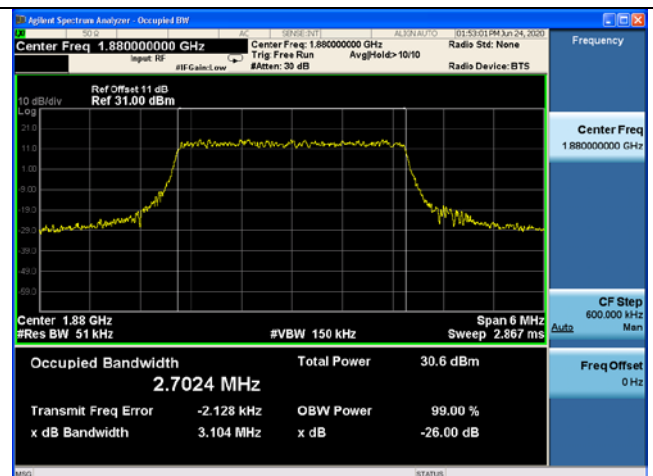


Fig.14

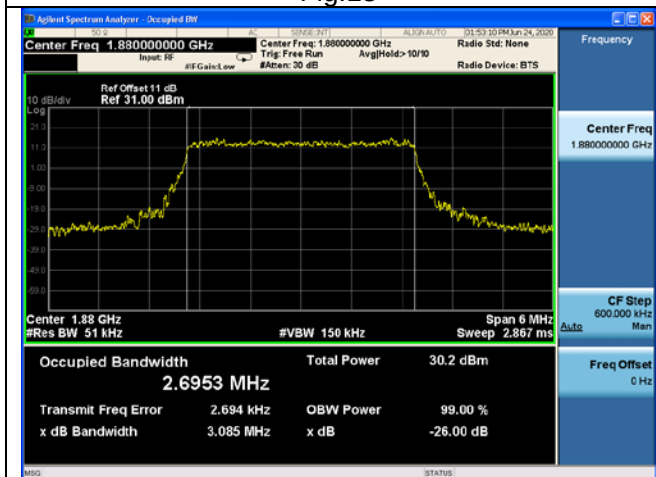


Fig.15

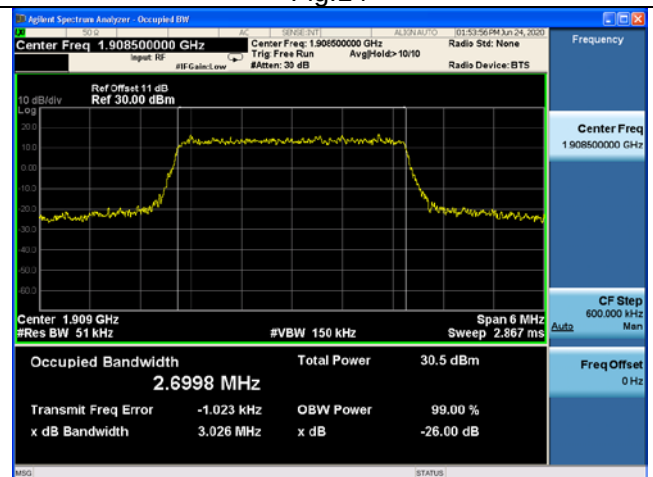


Fig.16

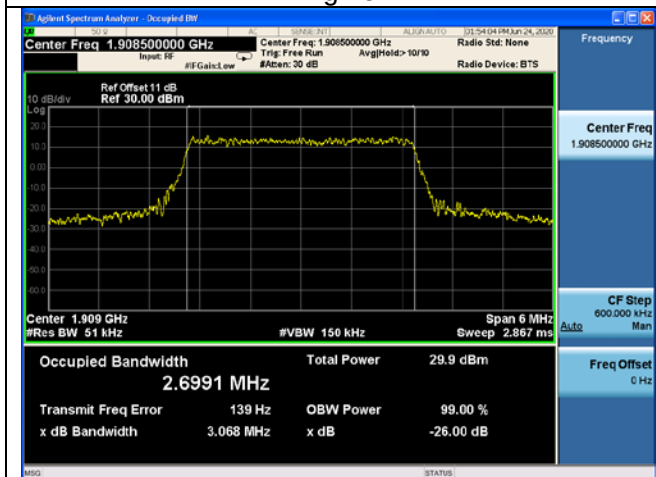


Fig.17

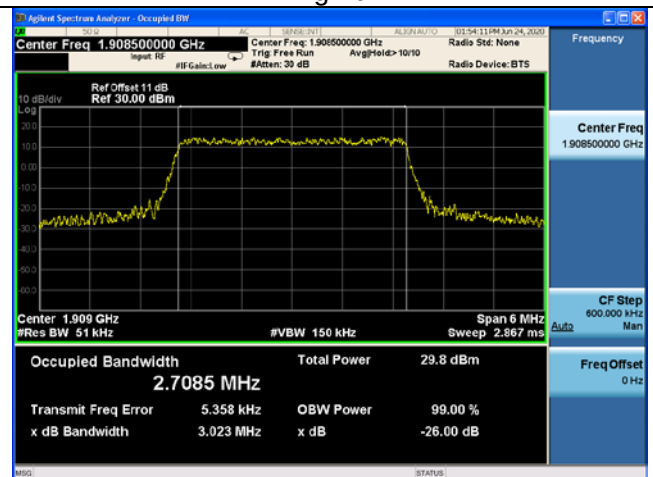


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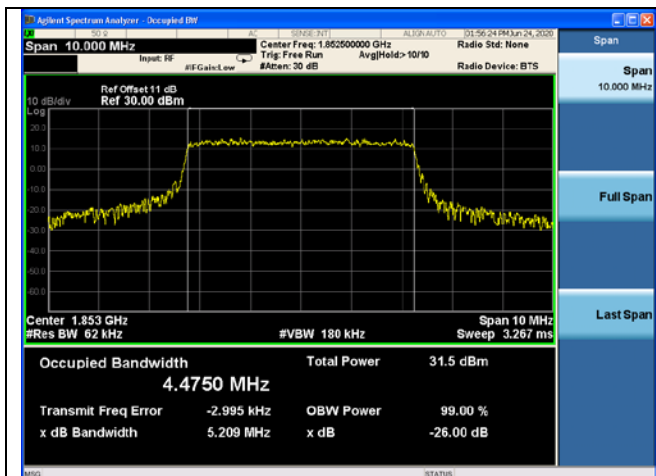


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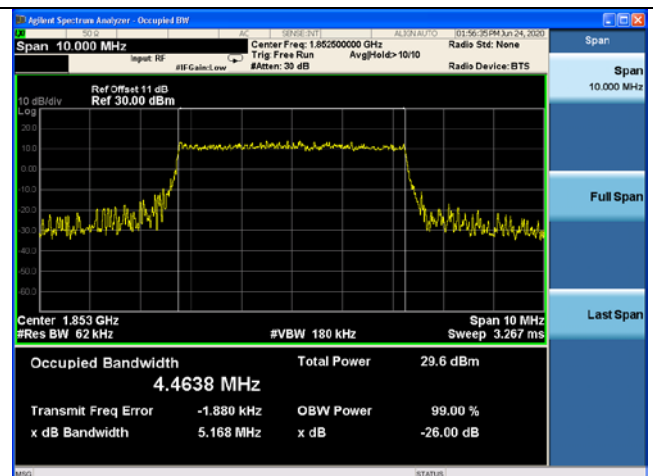


Fig.20

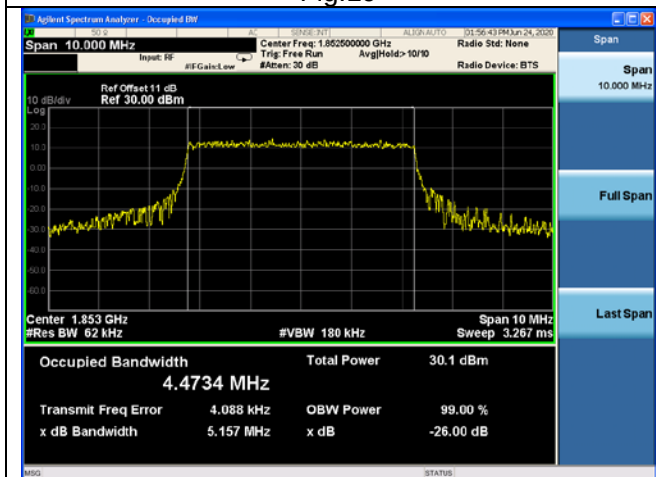


Fig.21

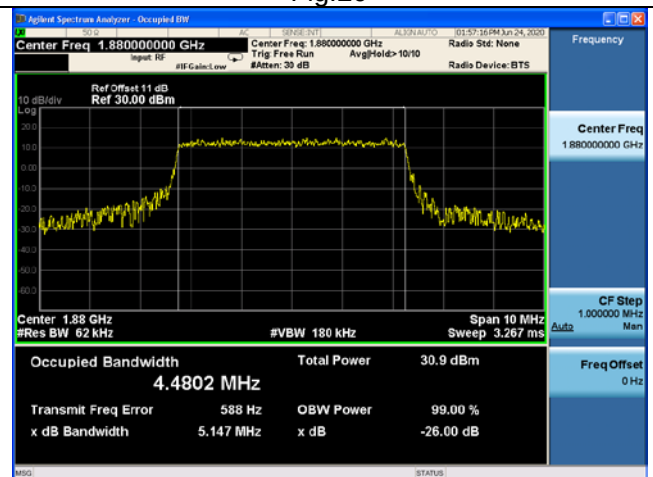


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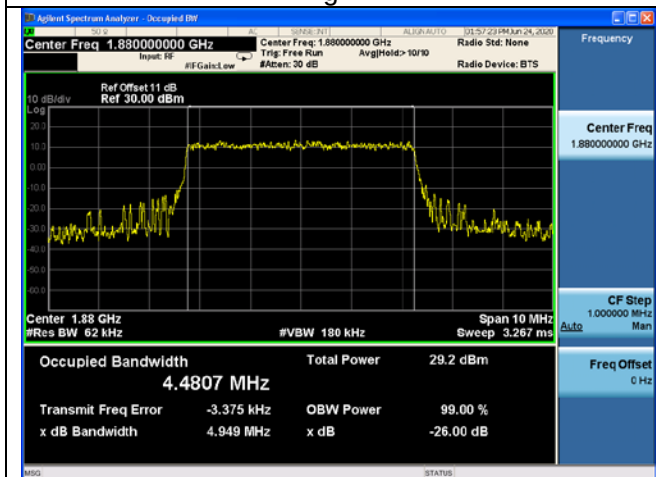


Fig.23

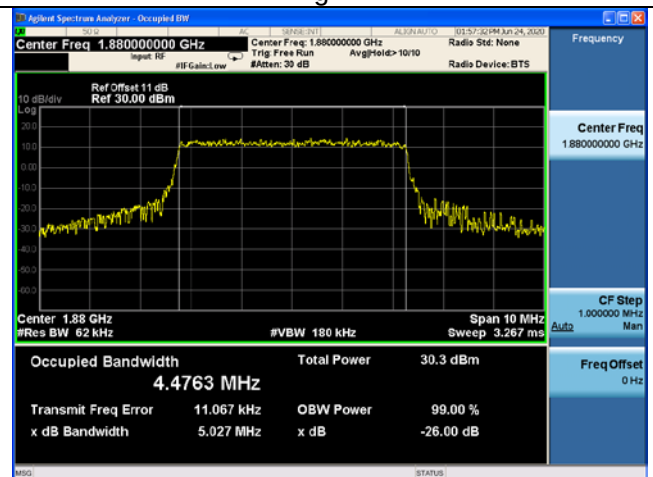


Fig.24

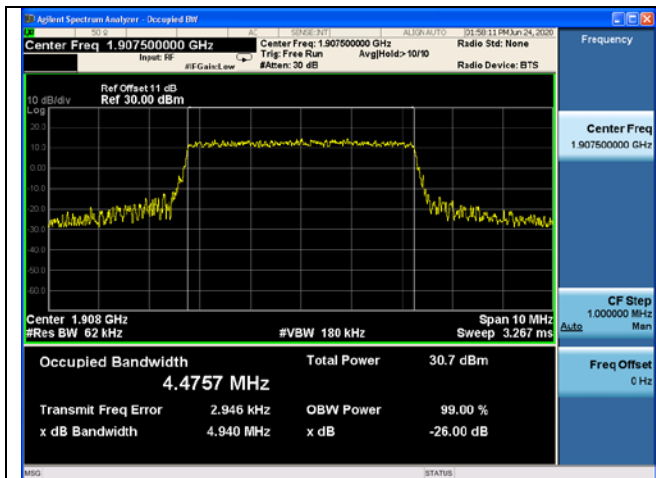


Fig.25

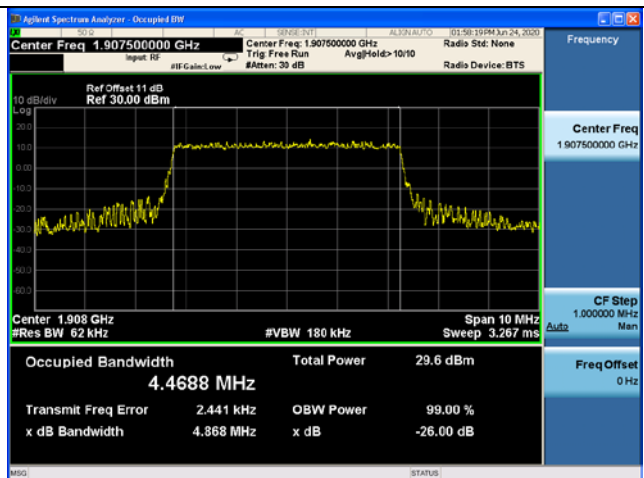


Fig.26

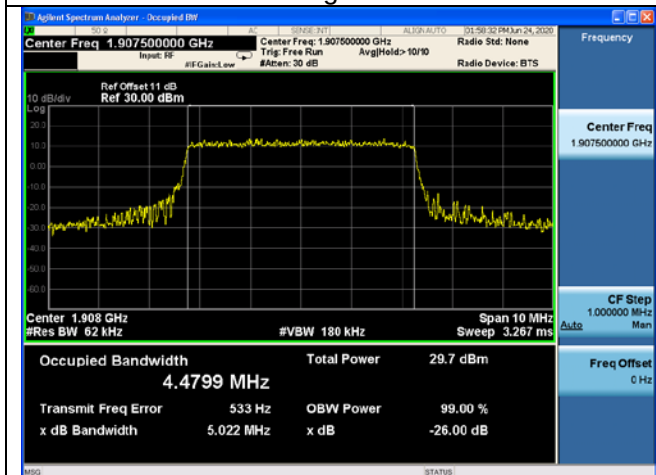


Fig.27

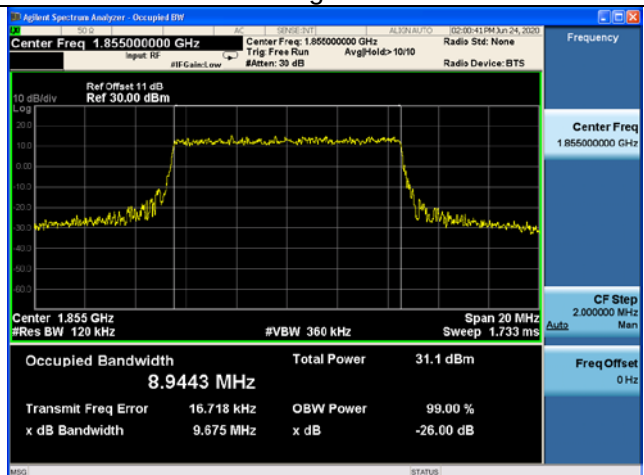


Fig.28

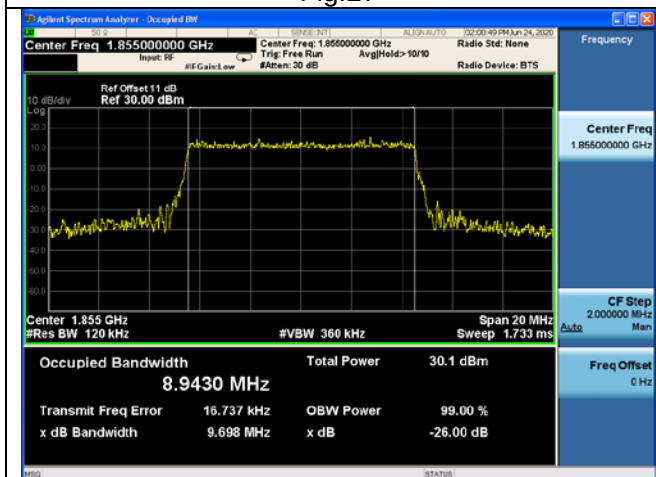


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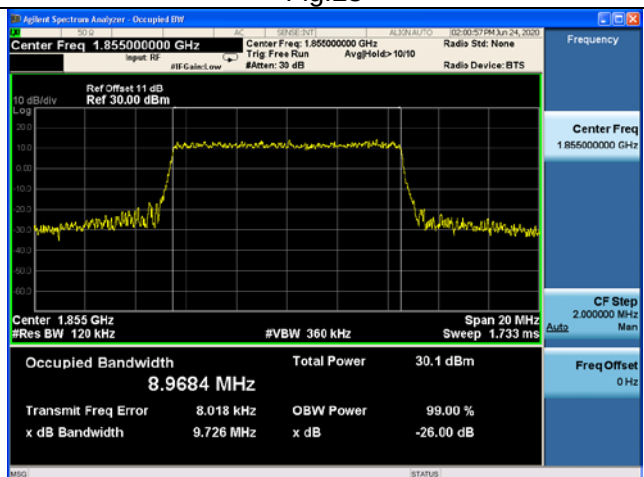


Fig.30

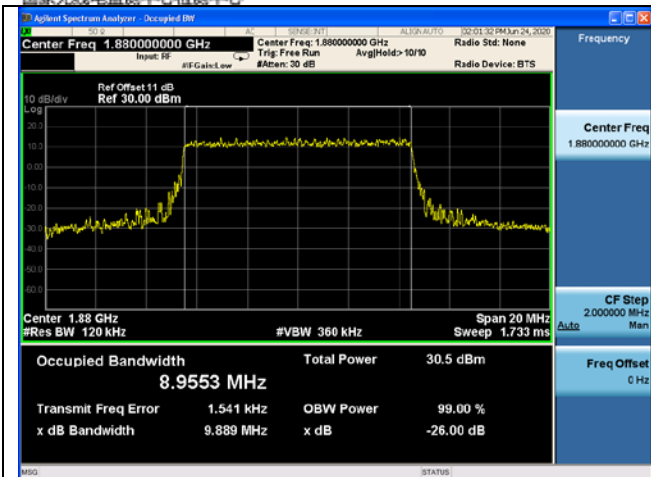


Fig.31

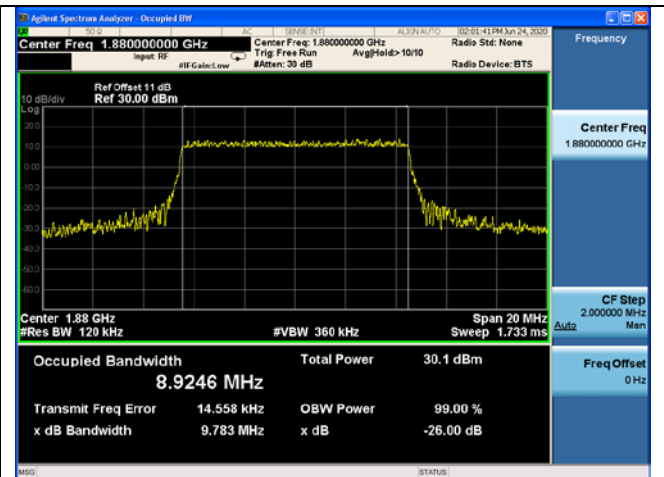


Fig.32

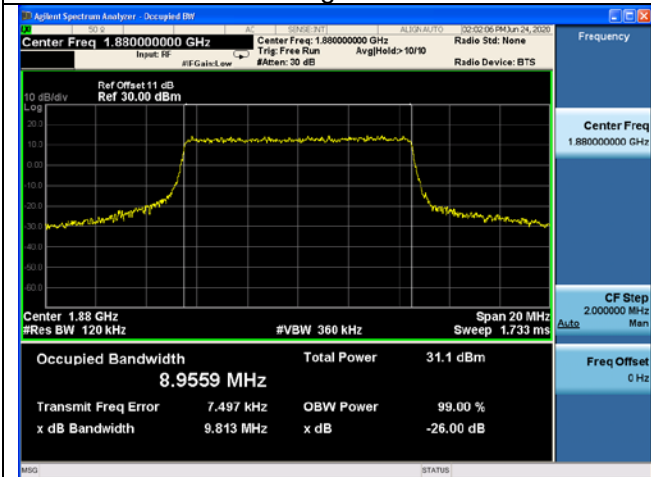


Fig.33

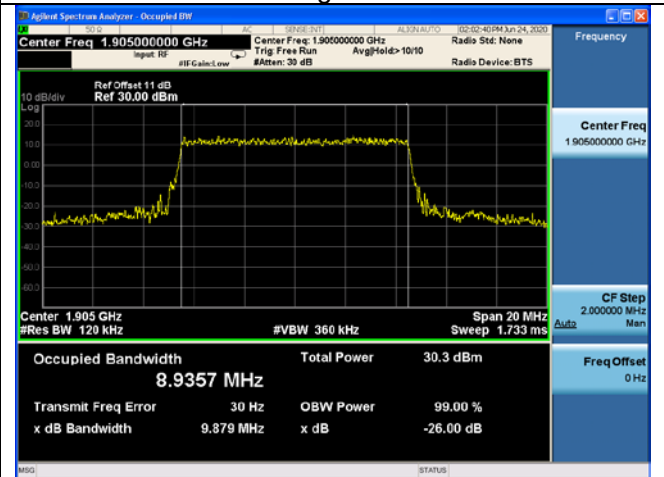


Fig.34

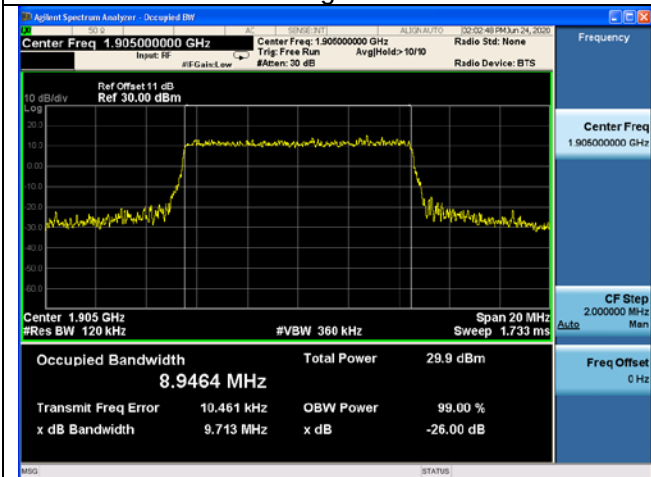


Fig.35

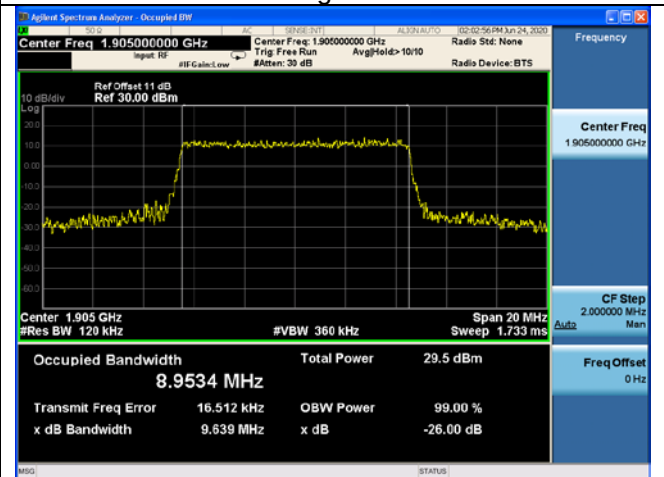


Fig.36

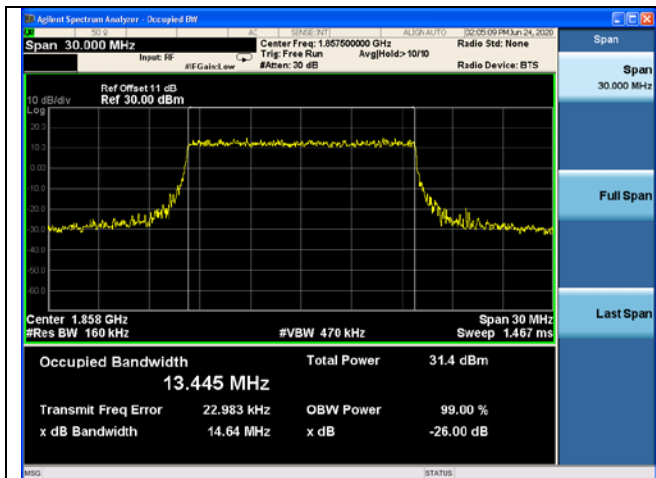


Fig.37

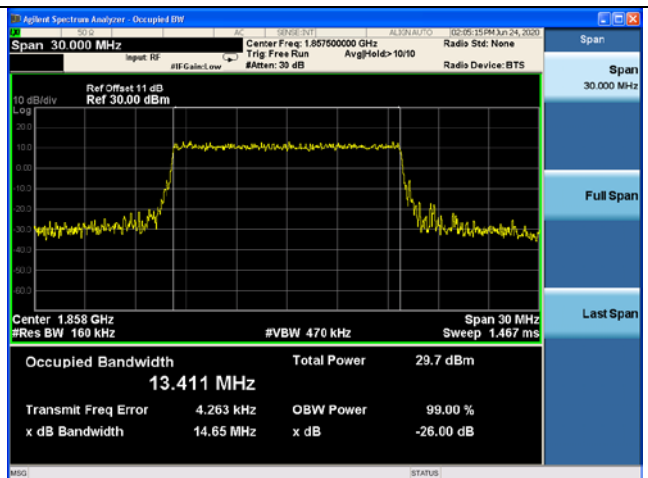


Fig.38

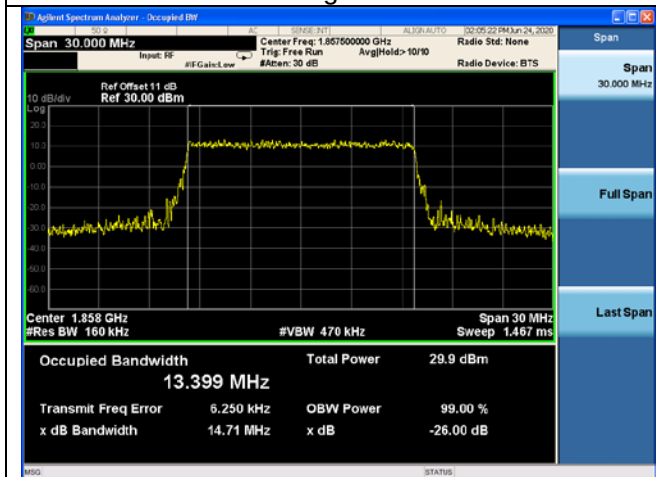


Fig.39

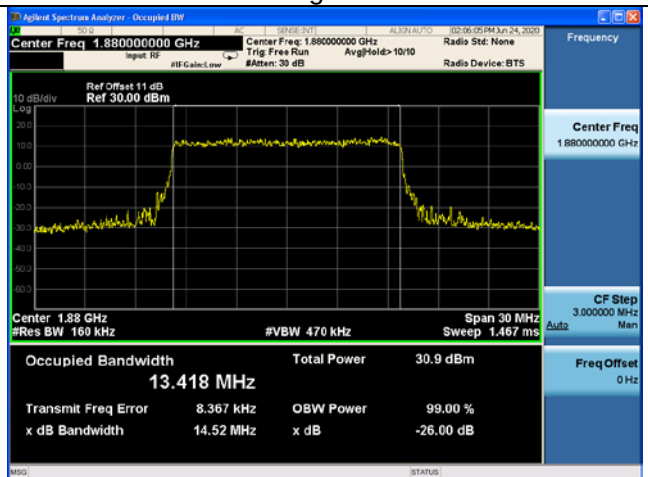


Fig.40

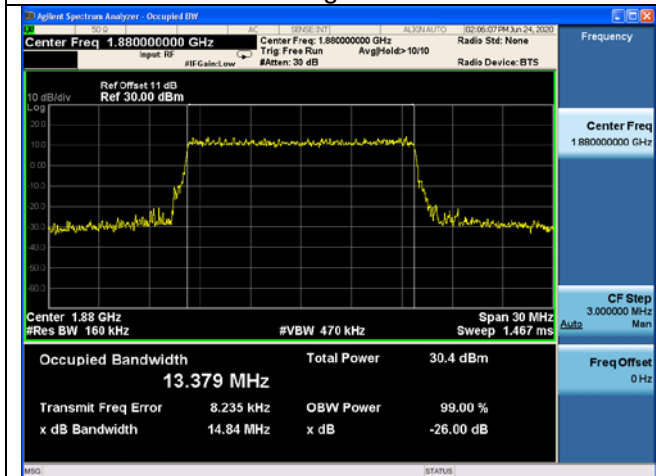


Fig.41

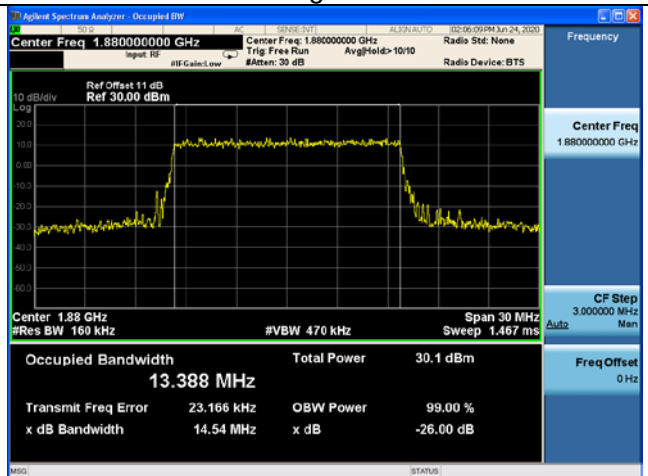


Fig.42

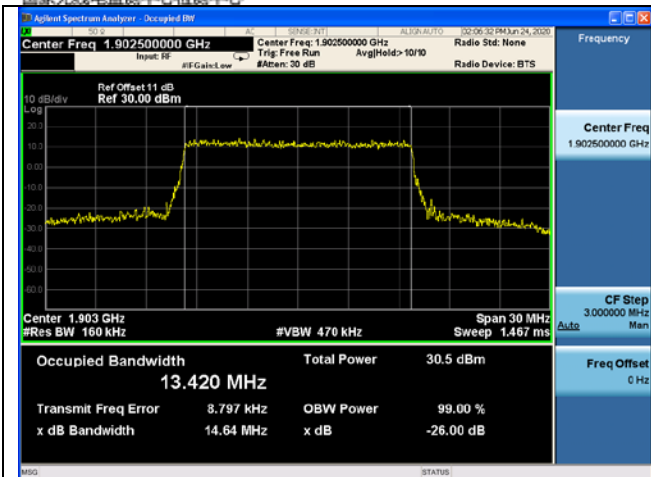


Fig.43

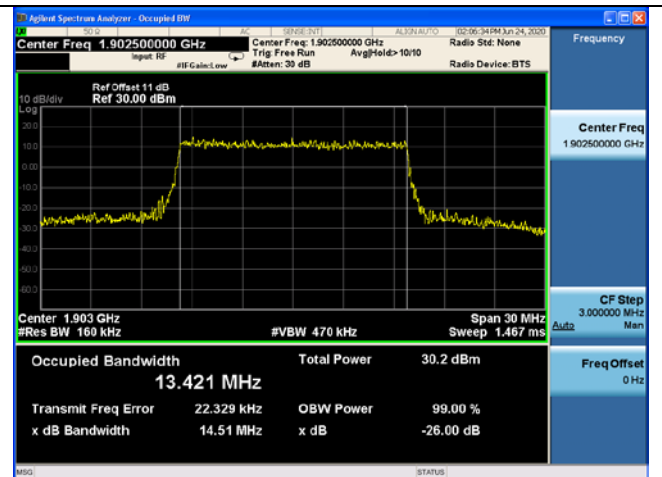


Fig.44

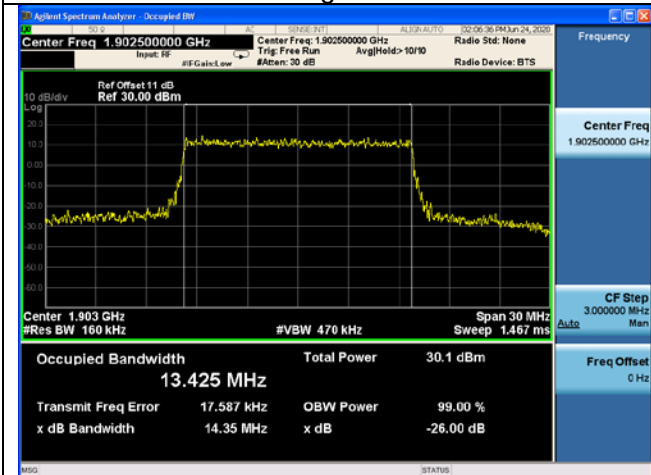


Fig.45

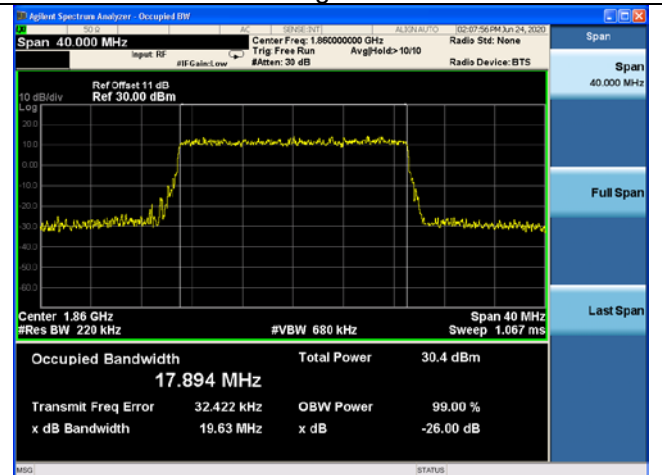


Fig.46

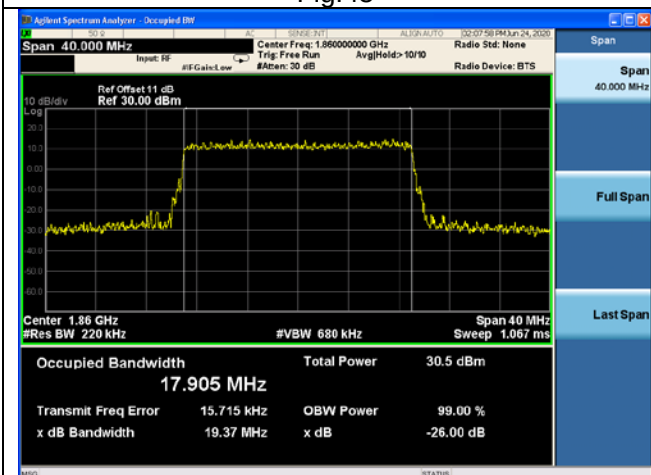


Fig.47

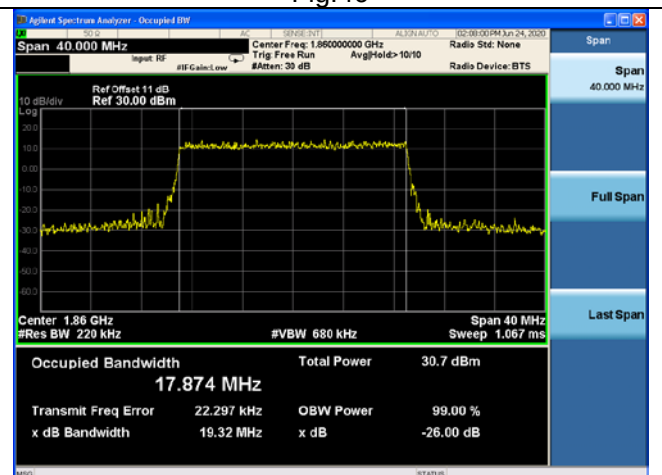


Fig.48

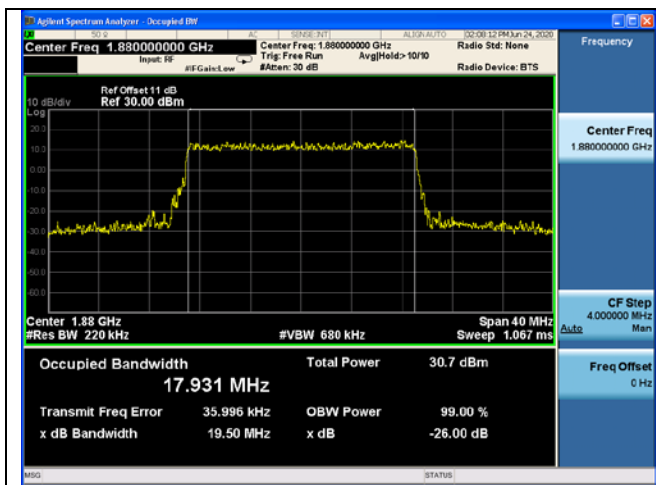


Fig.49

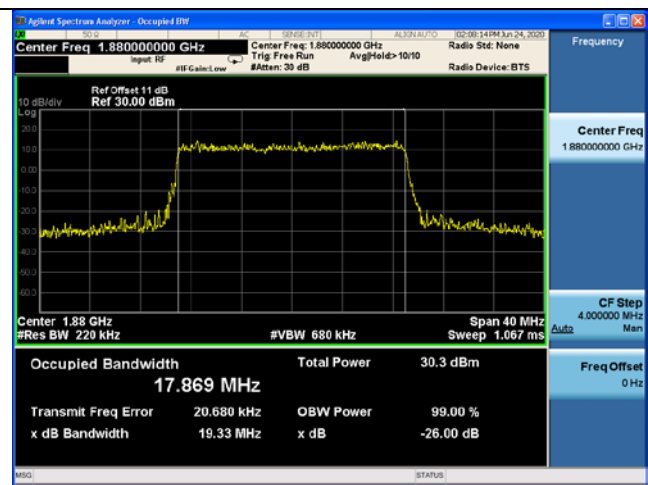


Fig.50

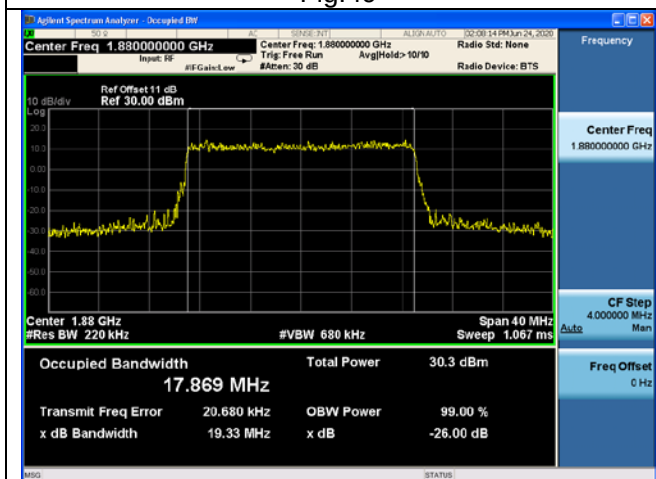


Fig.51

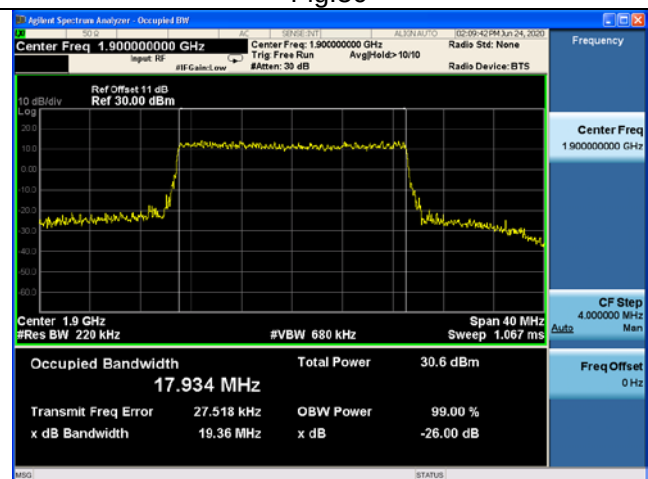


Fig.52

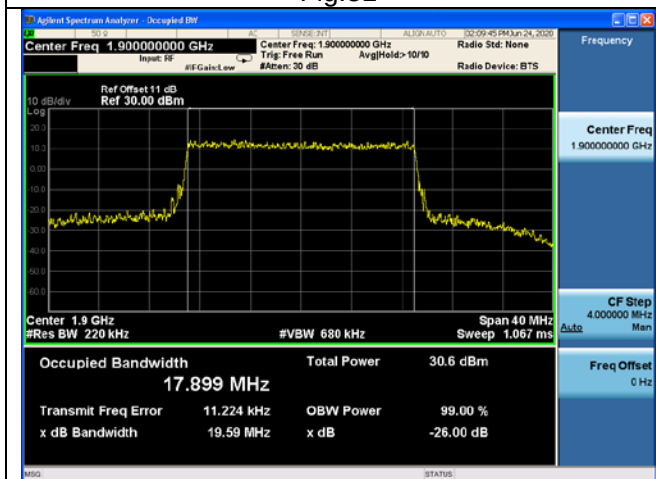


Fig.53

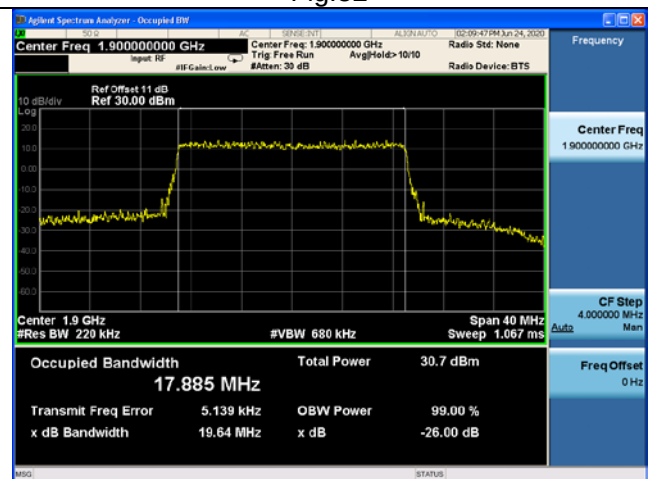


Fig.54

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
2	1880.0	18900	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

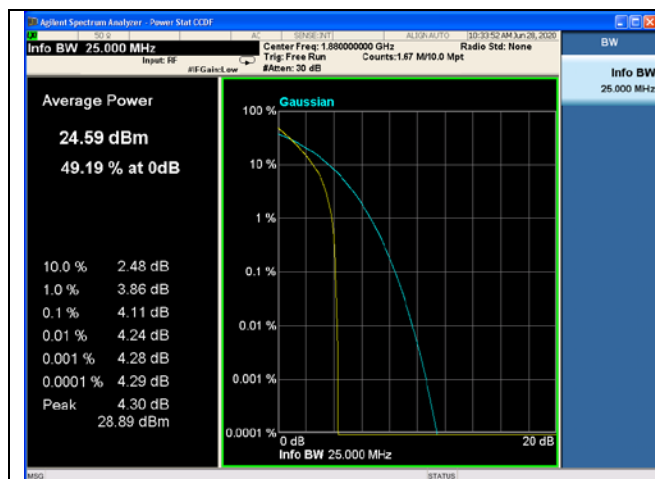


Fig.1

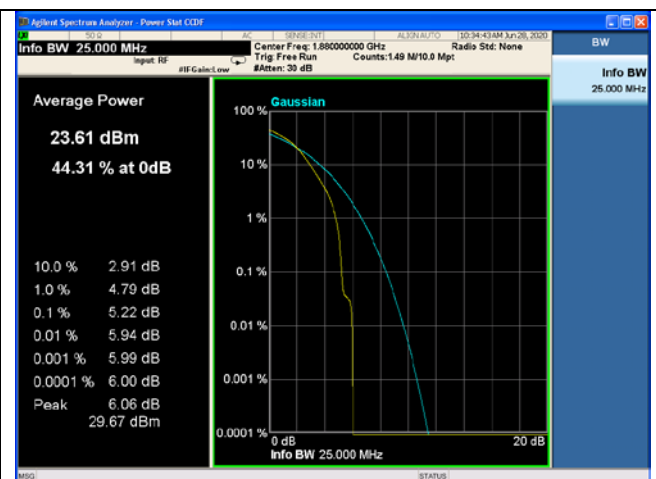


Fig.2

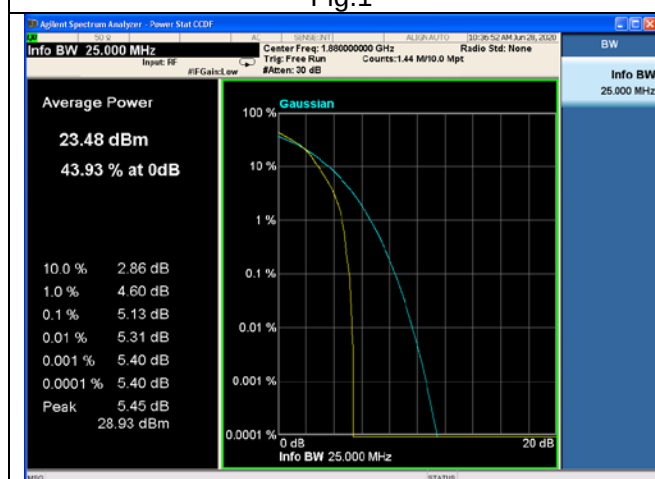


Fig.3



Fig.4

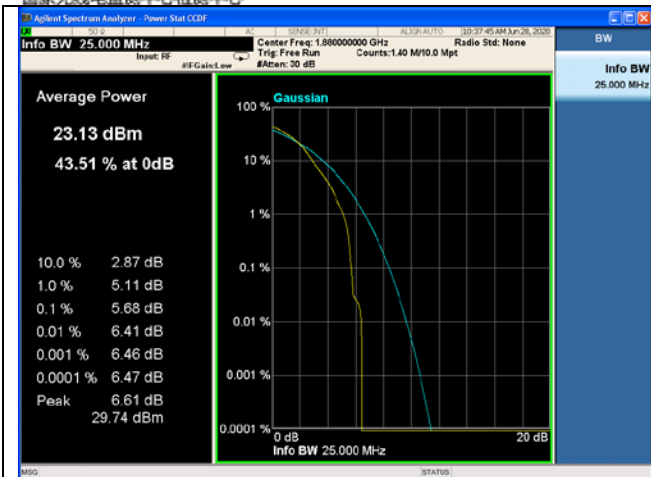


Fig.5

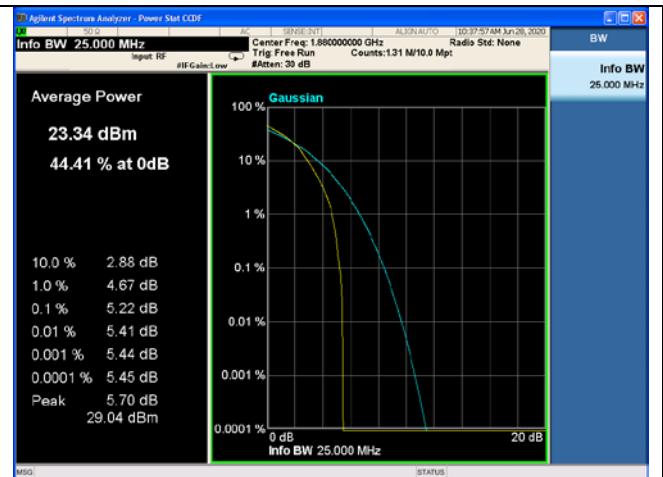


Fig.6

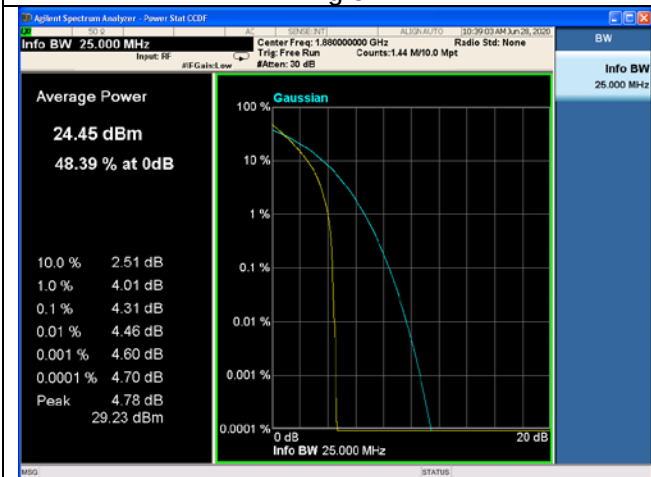


Fig.7



Fig.8

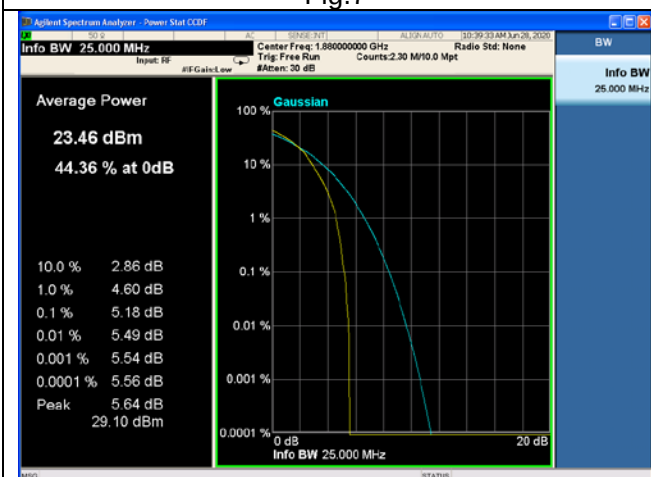


Fig.9

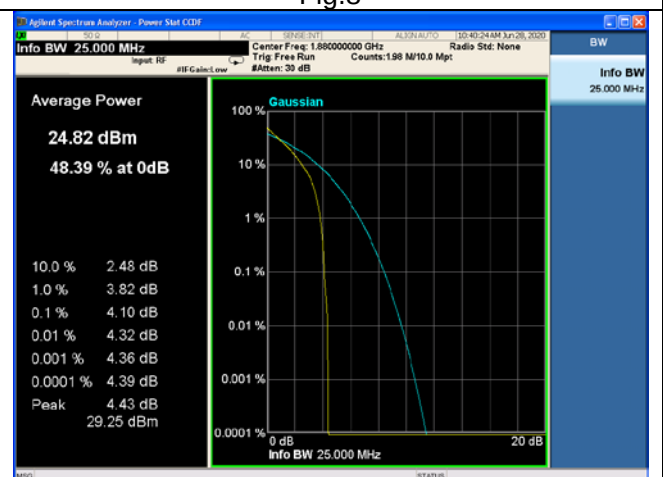


Fig.10

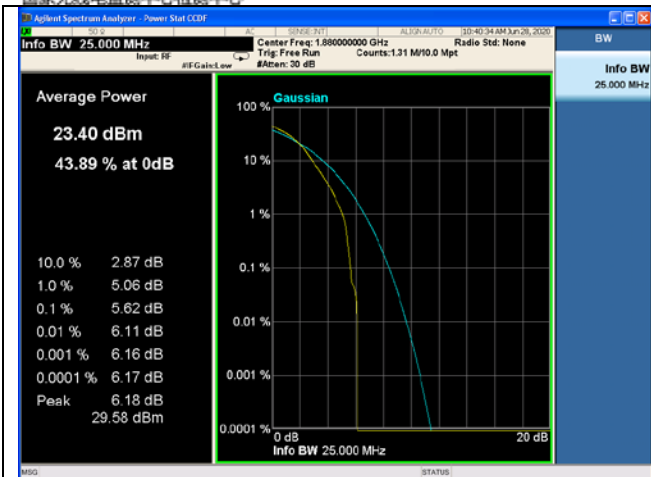


Fig.11

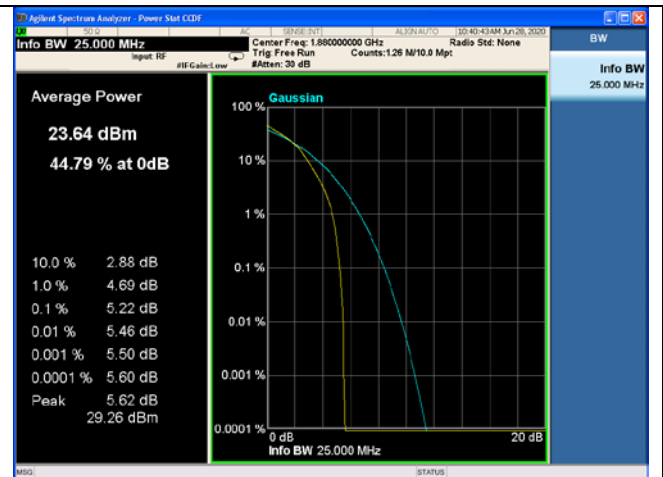


Fig.12

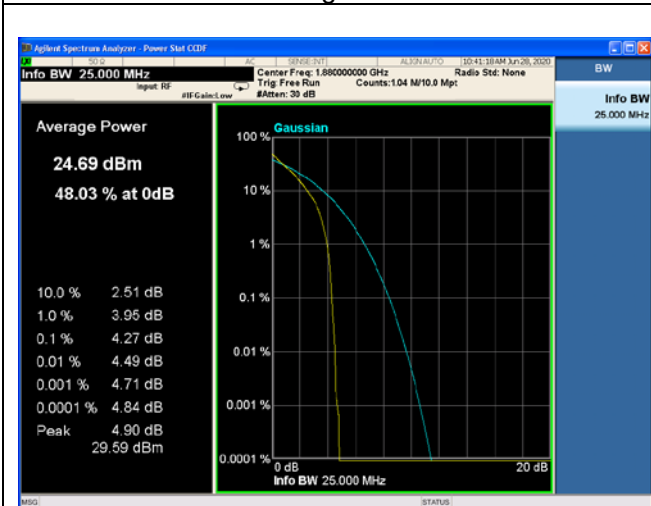


Fig.13

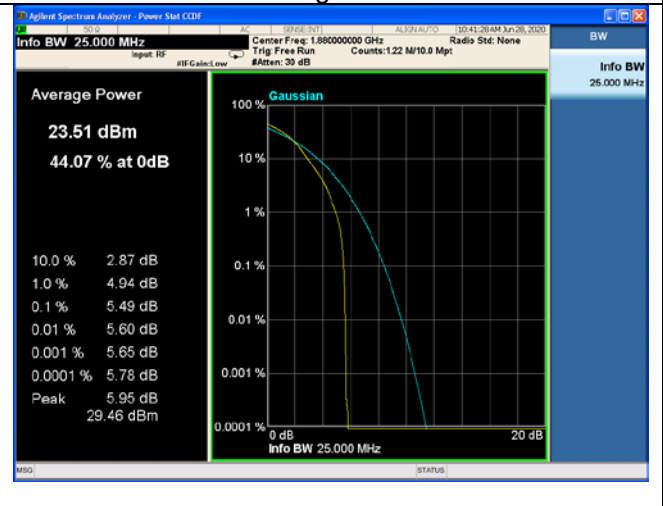


Fig.14

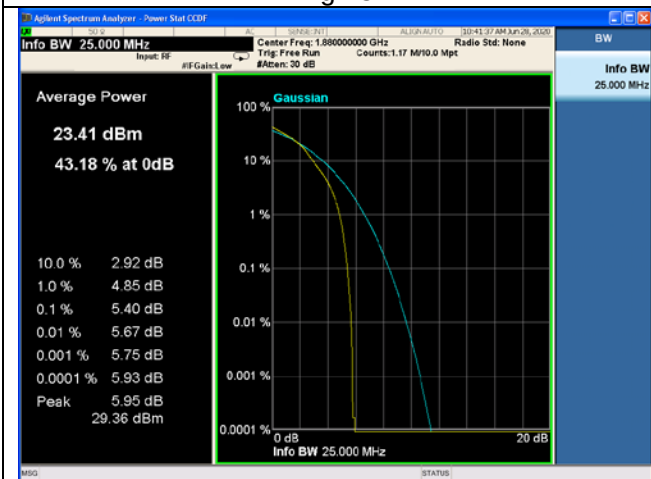


Fig.15

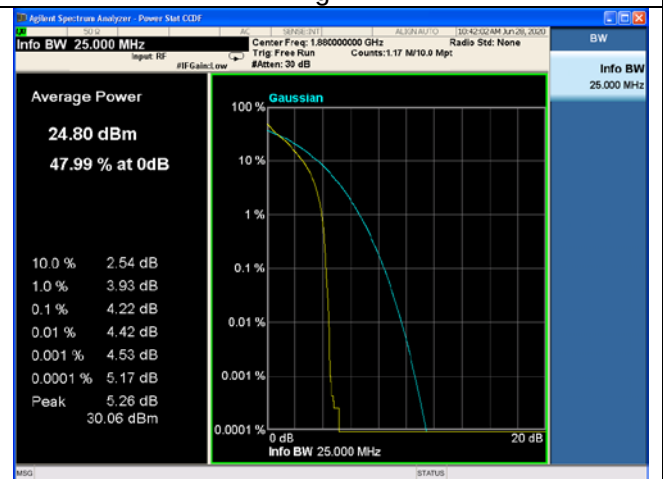


Fig.16



Fig.17



Fig.18

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
2	1860	18700	20	1	0	Fig.1-2
	1880	18900	20	1	0	Fig.3-4
	1900	19100	20	1	0	Fig.5-6

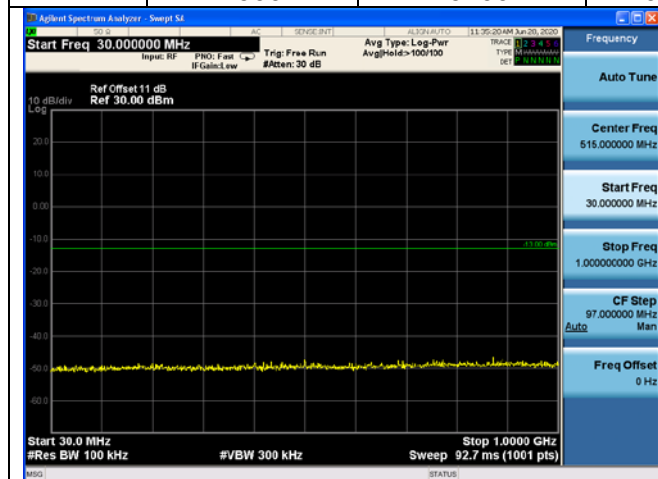


Fig.1

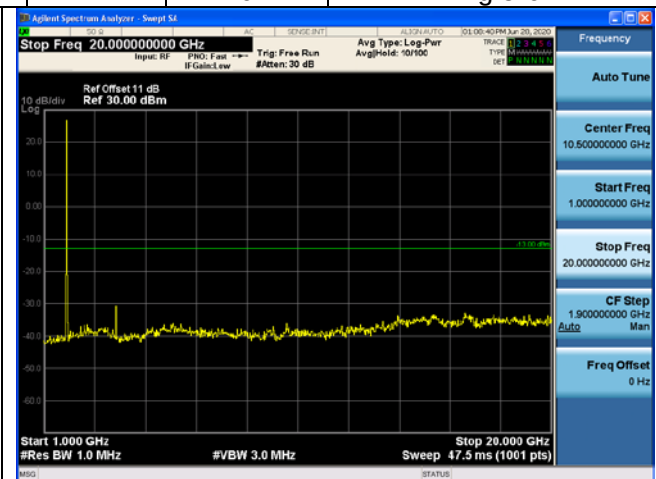


Fig.2

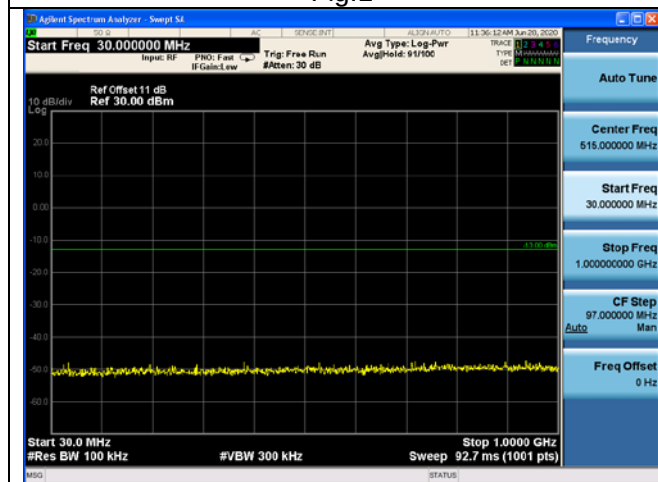


Fig3

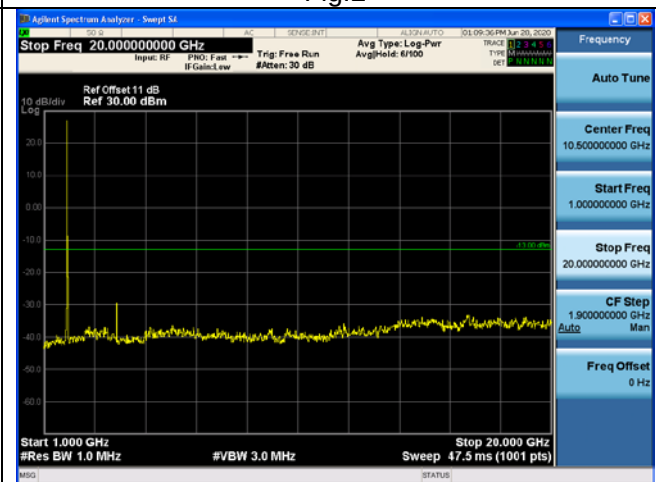


Fig4