Fig.5

Fig.6

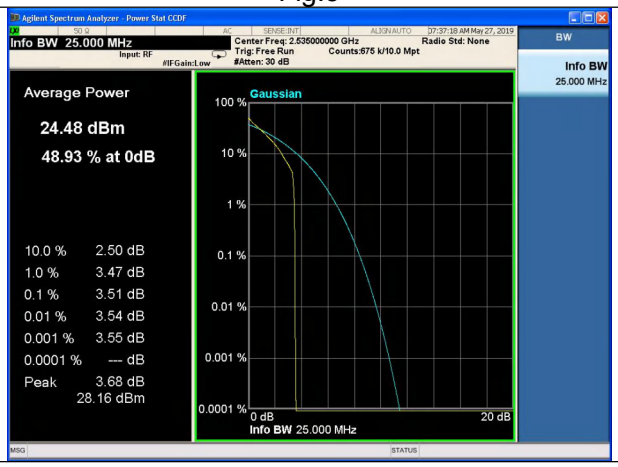


Fig.7

Fig.8

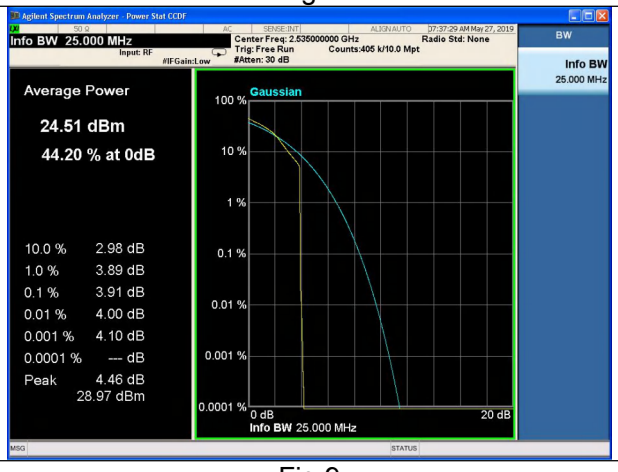


Fig.9

Fig.10


Agilent Spectrum Analyzer - Power Stat CCDF
Info BW 25.000 MHz
Center Freq: 2.535000000 GHz
Trig: Free Run
#Atten: 30 dB
Counts:360 k/10.0 Mpt
Radio Std: None
BW
Info BW
25.000 MHz
Average Power
24.21 dBm
45.59 % at 0dB
10.0 % 2.99 dB
1.0 % 4.19 dB
0.1 % 4.20 dB
0.01 % 4.21 dB
0.001 % 4.22 dB
0.0001 % --- dB
Peak 4.25 dB
28.46 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz

Fig.11


Agilent Spectrum Analyzer - Power Stat CCDF
Info BW 25.000 MHz
Center Freq: 2.535000000 GHz
Trig: Free Run
#Atten: 30 dB
Counts:315 k/10.0 Mpt
Radio Std: None
BW
Info BW
25.000 MHz
Average Power
24.45 dBm
44.83 % at 0dB
10.0 % 2.99 dB
1.0 % 3.95 dB
0.1 % 3.96 dB
0.01 % 3.98 dB
0.001 % 4.01 dB
0.0001 % --- dB
Peak 4.27 dB
28.72 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz

Fig.12

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2510	20850	20	1	0	Fig.1
	2535	21100	20	1	0	Fig.2
	2560	21350	20	1	0	Fig.3

Fig.1

Fig.2

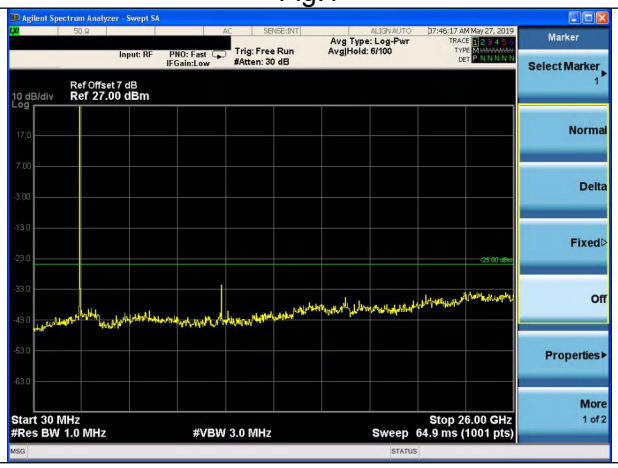


Fig3

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
7	2502.5	20775	5	1	0	Fig.1
				25	0	Fig.2
	2567.5	21425		1	24	Fig.9
				25	0	Fig.10
	2505	20800	10	1	0	Fig.3
				50	0	Fig.4
	2565	21400		1	49	Fig.11
				50	0	Fig.12
	2507.5	20825	15	1	0	Fig.5
				75	0	Fig.6
	2562.5	21375		1	74	Fig.13
				75	0	Fig.14
	2510	20850	20	1	0	Fig.7
				100	0	Fig.8
	2560	21350		1	99	Fig.15
				100	0	Fig.16

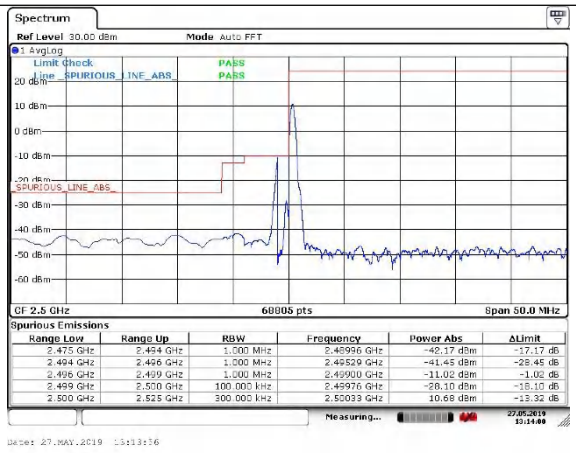


Fig.1

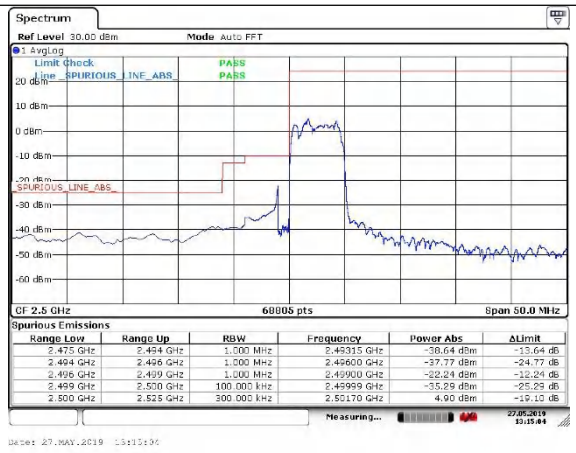
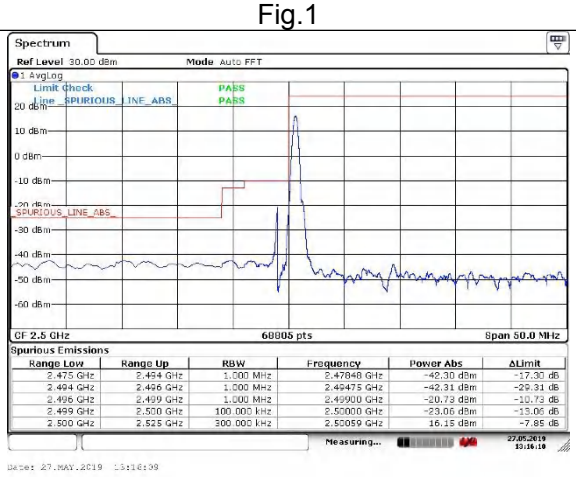


Fig.2



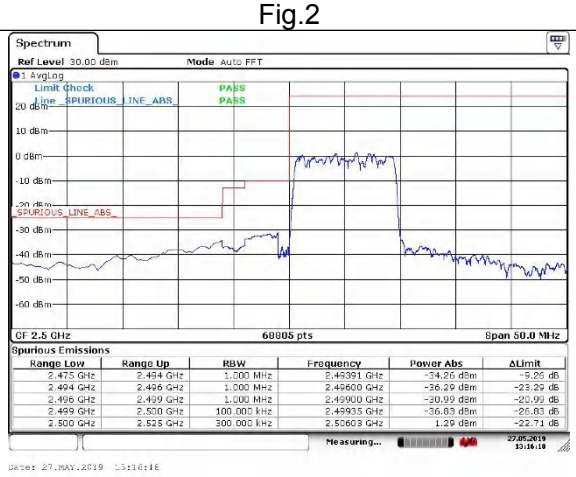


Fig.3

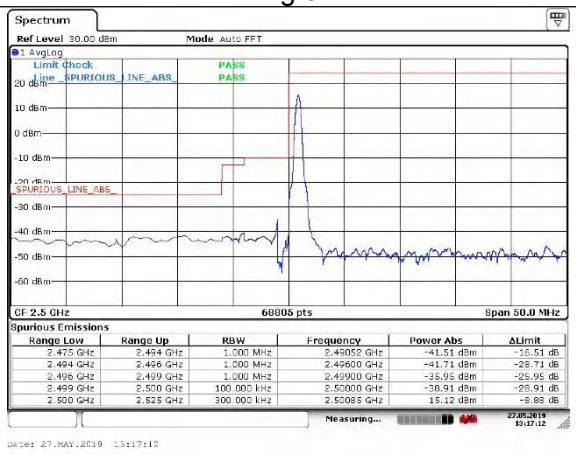


Fig.4

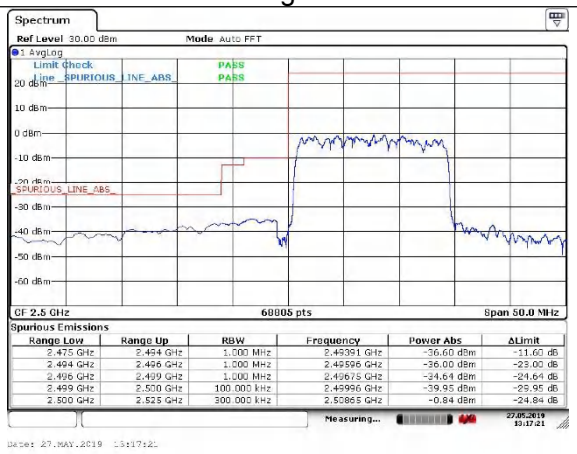


Fig.5

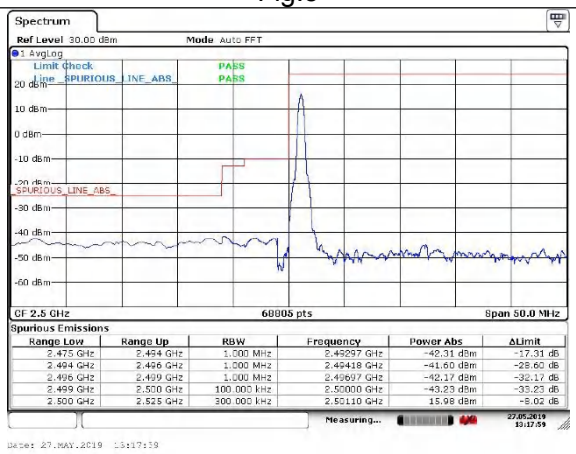


Fig.6

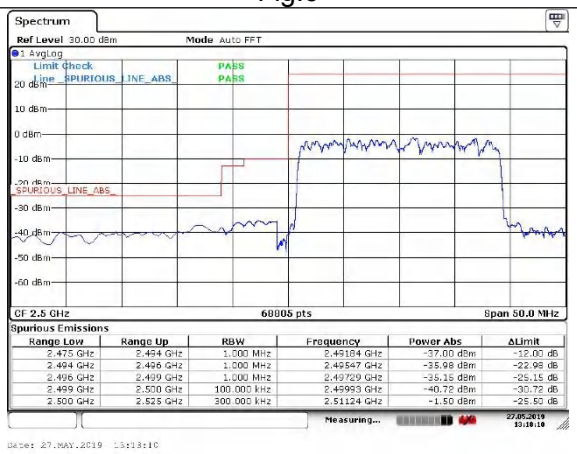


Fig.7

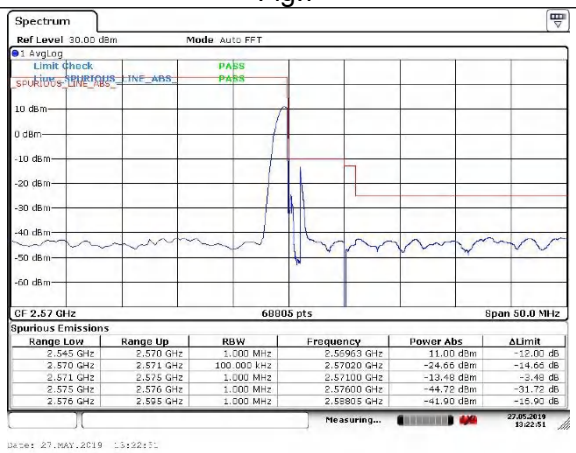


Fig.8

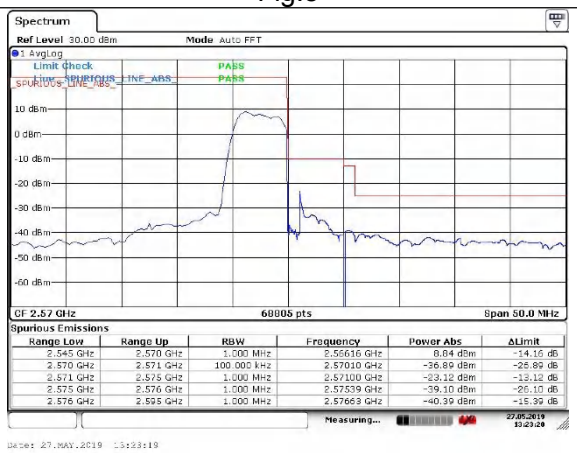


Fig.9

Fig.10

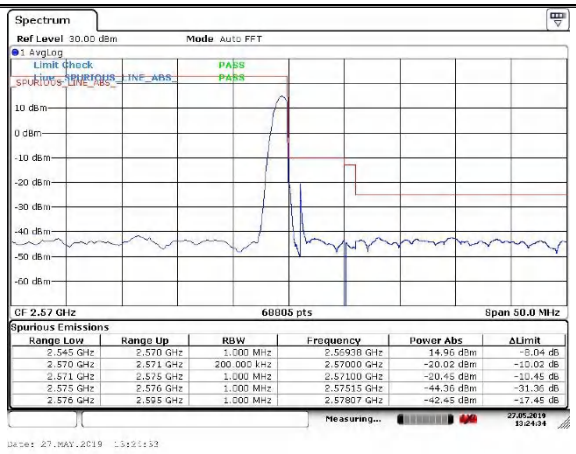


Fig.11

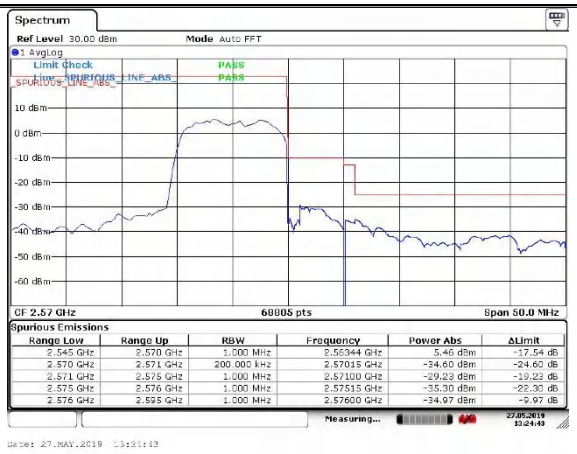


Fig.12

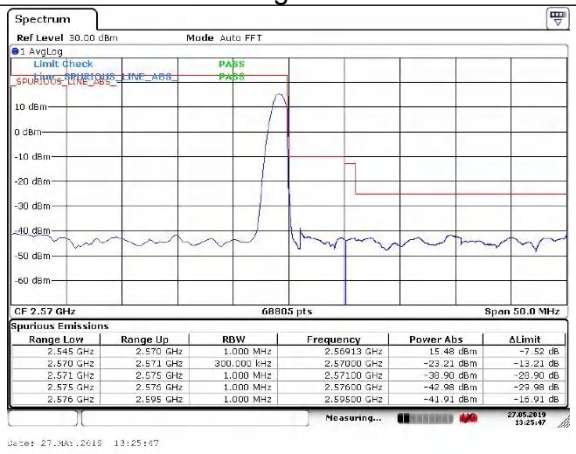


Fig.13

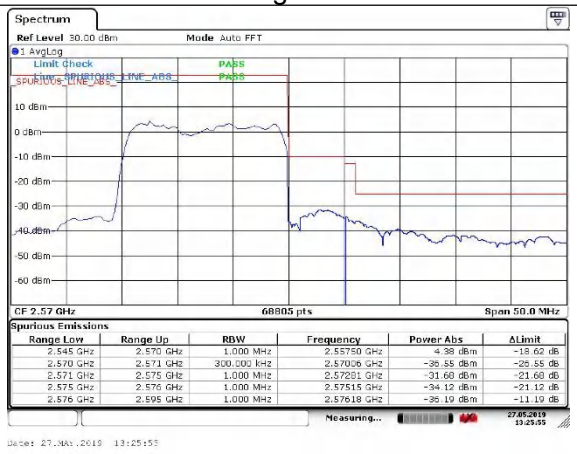


Fig.14

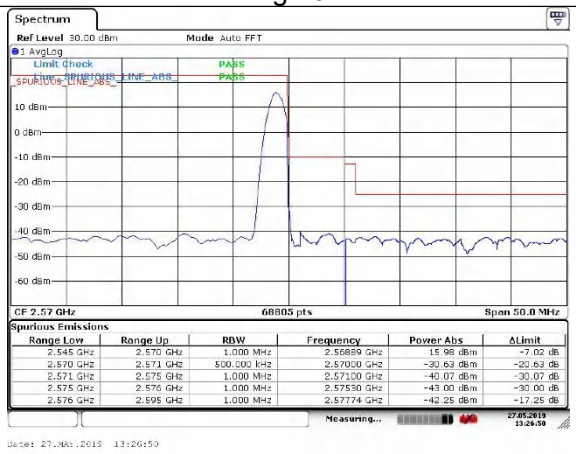


Fig.15

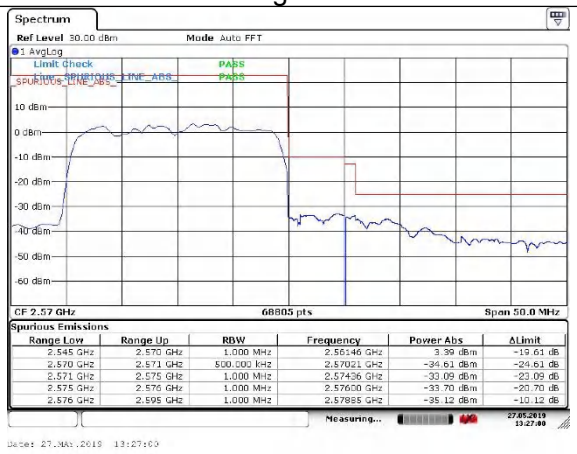


Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band7 Low Channel			
		5M	10M	15M	20M
-10	NV	0.063	0.053	0.005	0.039
0	NV	0.080	0.050	0.095	0.068
+10	NV	0.022	0.001	0.086	0.012
+20	NV	0.009	0.048	0.013	0.036
+30	NV	0.067	0.067	0.073	0.086
+40	NV	0.011	0.024	0.054	0.053
+50	NV	0.031	0.037	0.029	0.079
+55	NV	0.089	0.078	0.095	0.001
+20	LV	0.055	0.073	0.044	0.054
+20	HV	0.081	0.081	0.034	0.068

Temperature(°C)	Voltage	Test Result (ppm) Band7 High Channel			
		5M	10M	15M	20M
-10	NV	0.024	0.042	0.077	0.046
0	NV	0.032	0.090	0.069	0.076
+10	NV	0.081	0.005	0.021	0.055
+20	NV	0.015	0.067	0.003	0.020
+30	NV	0.043	0.082	0.030	0.082
+40	NV	0.075	0.086	0.079	0.076
+50	NV	0.030	0.023	0.040	0.077
+55	NV	0.066	0.032	0.008	0.054
+20	LV	0.086	0.046	0.061	0.081
+20	HV	0.061	0.020	0.020	0.009

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output up Ant

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	19.68
				1	5	19.68
				3	2	19.03
				6	0	18.90
	707.5	23095		1	0	19.91
				1	5	19.91
				3	2	19.08
				6	0	18.97
	715.3	23173		1	0	19.98
				1	5	19.98
				3	2	19.03
				6	0	18.92
16QAM	699.7	23017	1.4	1	0	19.21
				1	5	19.21
				3	2	18.14
				6	0	17.93
	707.5	23095		1	0	19.32
				1	5	19.32
				3	2	18.11
				6	0	18.05
	715.3	23173		1	0	19.44
				1	5	19.44
				3	2	18.14
				6	0	17.88
64QAM	699.7	23017	1.4	1	0	19.03
				1	5	19.03
				3	2	18.12
				6	0	17.97
	707.5	23095		1	0	19.13
				1	5	19.13
				3	2	18.12
				6	0	18.03
	715.3	23173		1	0	19.10
				1	5	19.10
				3	2	18.04
				6	0	17.93

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	19.74
				1	14	19.74
				8	4	19.09
				15	0	18.96
	707.5	23095		1	0	19.97
				1	14	19.97
				8	4	19.14
				15	0	19.03
	714.5	23165		1	0	20.04
				1	14	20.04
				8	4	19.09
				15	0	18.98
16QAM	700.5	23025	3	1	0	19.27
				1	14	19.27
				8	4	18.20
				15	0	17.99
	707.5	23095		1	0	19.38
				1	14	19.38
				8	4	18.17
				15	0	18.11
	714.5	23165		1	0	19.50
				1	14	19.50
				8	4	18.20
				15	0	17.94
64QAM	700.5	23025	3	1	0	19.09
				1	14	19.09
				8	4	18.18
				15	0	18.03
	707.5	23095		1	0	19.19
				1	14	19.19
				8	4	18.18
				15	0	18.09
	714.5	23165		1	0	19.16
				1	14	19.16
				8	4	18.10
				15	0	17.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	19.79
				1	24	19.79
				12	6	19.14
				25	0	19.01
	707.5	23095		1	0	20.02
				1	24	20.02
				12	6	19.19
				25	0	19.08
	713.5	23155		1	0	20.09
				1	24	20.09
				12	6	19.14
				25	0	19.03
16QAM	701.5	23035	5	1	0	19.32
				1	24	19.32
				12	6	18.25
				25	0	18.04
	707.5	23095		1	0	19.43
				1	24	19.43
				12	6	18.22
				25	0	18.16
	713.5	23155		1	0	19.55
				1	24	19.55
				12	6	18.25
				25	0	17.99
64QAM	701.5	23035	5	1	0	19.14
				1	24	19.14
				12	6	18.23
				25	0	18.08
	707.5	23095		1	0	19.24
				1	24	19.24
				12	6	18.23
				25	0	18.14
	713.5	23155		1	0	19.21
				1	24	19.21
				12	6	18.15
				25	0	18.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	19.82
				1	49	19.82
				24	12	19.17
				50	0	19.04
	707.5	23095		1	0	20.05
				1	49	20.05
				24	12	19.22
				50	0	19.11
	711	23130		1	0	20.12
				1	49	20.12
				24	12	19.17
				50	0	19.06
16QAM	704	23060	10	1	0	19.35
				1	49	19.35
				24	12	18.28
				50	0	18.07
	707.5	23095		1	0	19.46
				1	49	19.46
				24	12	18.25
				50	0	18.19
	711	23130		1	0	19.58
				1	49	19.58
				24	12	18.28
				50	0	18.02
64QAM	704	23060	10	1	0	19.17
				1	49	19.17
				24	12	18.26
				50	0	18.11
	707.5	23095		1	0	19.27
				1	49	19.27
				24	12	18.26
				50	0	18.17
	711	23130		1	0	19.24
				1	49	19.24
				24	12	18.18
				50	0	18.07

1 RF Power Output down Ant

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	23.76
				1	5	23.76
				3	2	23.11
				6	0	22.98
	707.5	23095		1	0	23.99
				1	5	23.99
				3	2	23.16
				6	0	23.05
	715.3	23173		1	0	24.06
				1	5	24.06
				3	2	23.11
				6	0	23.00
16QAM	699.7	23017	1.4	1	0	23.29
				1	5	23.29
				3	2	22.22
				6	0	22.01
	707.5	23095		1	0	23.40
				1	5	23.40
				3	2	22.19
				6	0	22.13
	715.3	23173		1	0	23.52
				1	5	23.52
				3	2	22.22
				6	0	21.96
64QAM	699.7	23017	1.4	1	0	23.11
				1	5	23.11
				3	2	22.20
				6	0	22.05
	707.5	23095		1	0	23.21
				1	5	23.21
				3	2	22.20
				6	0	22.11
	715.3	23173		1	0	23.18
				1	5	23.18
				3	2	22.12
				6	0	22.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.79
				1	14	23.79
				8	4	23.14
				15	0	23.01
	707.5	23095		1	0	24.02
				1	14	24.02
				8	4	23.19
				15	0	23.08
	714.5	23165		1	0	24.09
				1	14	24.09
				8	4	23.14
				15	0	23.03
16QAM	700.5	23025	3	1	0	23.32
				1	14	23.32
				8	4	22.25
				15	0	22.04
	707.5	23095		1	0	23.43
				1	14	23.43
				8	4	22.22
				15	0	22.16
	714.5	23165		1	0	23.55
				1	14	23.55
				8	4	22.25
				15	0	21.99
64QAM	700.5	23025	3	1	0	23.14
				1	14	23.14
				8	4	22.23
				15	0	22.08
	707.5	23095		1	0	23.24
				1	14	23.24
				8	4	22.23
				15	0	22.14
	714.5	23165		1	0	23.21
				1	14	23.21
				8	4	22.15
				15	0	22.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.86
				1	24	23.86
				12	6	23.21
				25	0	23.08
	707.5	23095		1	0	24.09
				1	24	24.09
				12	6	23.26
				25	0	23.15
	713.5	23155		1	0	24.16
				1	24	24.16
				12	6	23.21
				25	0	23.10
16QAM	701.5	23035	5	1	0	23.39
				1	24	23.39
				12	6	22.32
				25	0	22.11
	707.5	23095		1	0	23.50
				1	24	23.50
				12	6	22.29
				25	0	22.23
	713.5	23155		1	0	23.62
				1	24	23.62
				12	6	22.32
				25	0	22.06
64QAM	701.5	23035	5	1	0	23.21
				1	24	23.21
				12	6	22.30
				25	0	22.15
	707.5	23095		1	0	23.31
				1	24	23.31
				12	6	22.30
				25	0	22.21
	713.5	23155		1	0	23.28
				1	24	23.28
				12	6	22.22
				25	0	22.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.92
				1	49	23.92
				24	12	23.27
				50	0	23.14
	707.5	23095		1	0	24.15
				1	49	24.15
				24	12	23.32
				50	0	23.21
	711	23130		1	0	24.22
				1	49	24.22
				24	12	23.27
				50	0	23.16
16QAM	704	23060	10	1	0	23.45
				1	49	23.45
				24	12	22.38
				50	0	22.17
	707.5	23095		1	0	23.56
				1	49	23.56
				24	12	22.35
				50	0	22.29
	711	23130		1	0	23.68
				1	49	23.68
				24	12	22.38
				50	0	22.12
64QAM	704	23060	10	1	0	23.27
				1	49	23.27
				24	12	22.36
				50	0	22.21
	707.5	23095		1	0	23.37
				1	49	23.37
				24	12	22.36
				50	0	22.27
	711	23130		1	0	23.34
				1	49	23.34
				24	12	22.28
				50	0	22.17

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	
12	699.7	23017	1.4	6	0	1.08	Fig.1	1.08	Fig.2	1.08	Fig.3
	707.5	23095		6	0	1.08	Fig.4	1.08	Fig.5	1.08	Fig.6
	715.3	23173		6	0	1.07	Fig.7	1.08	Fig.8	1.08	Fig.9
	700.5	23025	3	15	0	2.70	Fig.10	2.70	Fig.11	2.70	Fig.12
	707.5	23095		15	0	2.70	Fig.13	2.70	Fig.14	2.71	Fig.15
	714.5	23165		15	0	2.71	Fig.16	2.70	Fig.17	2.69	Fig.18
	701.5	23035	5	25	0	4.47	Fig.19	4.47	Fig.20	4.47	Fig.21
	707.5	23095		25	0	4.49	Fig.22	4.48	Fig.23	4.47	Fig.24
	713.5	23155		25	0	4.49	Fig.25	4.47	Fig.26	4.47	Fig.27
	704	23060	10	50	0	8.94	Fig.28	8.97	Fig.29	8.97	Fig.30
	707.5	23095		50	0	8.96	Fig.31	8.94	Fig.32	8.93	Fig.33
	711	23130		50	0	8.94	Fig.34	8.93	Fig.35	8.95	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
12	699.7	23017	1.4	6	0	1.20	Fig.1	1.20	Fig.2	1.20	Fig.3
	707.5	23095		6	0	1.21	Fig.4	1.19	Fig.5	1.20	Fig.6
	715.3	23173		6	0	1.20	Fig.7	1.20	Fig.8	1.21	Fig.9
	700.5	23025	3	15	0	2.99	Fig.10	2.95	Fig.11	2.98	Fig.12
	707.5	23095		15	0	2.99	Fig.13	2.96	Fig.14	2.92	Fig.15
	714.5	23165		15	0	2.97	Fig.16	2.97	Fig.17	2.98	Fig.18
	701.5	23035	5	25	0	4.84	Fig.19	4.87	Fig.20	4.81	Fig.21
	707.5	23095		25	0	4.86	Fig.22	4.83	Fig.23	4.89	Fig.24
	713.5	23155		25	0	4.85	Fig.25	4.85	Fig.26	4.89	Fig.27
	704	23060	10	50	0	9.58	Fig.28	9.56	Fig.29	9.56	Fig.30
	707.5	23095		50	0	9.64	Fig.31	9.63	Fig.32	9.69	Fig.33
	711	23130		50	0	9.56	Fig.34	9.63	Fig.35	9.56	Fig.36

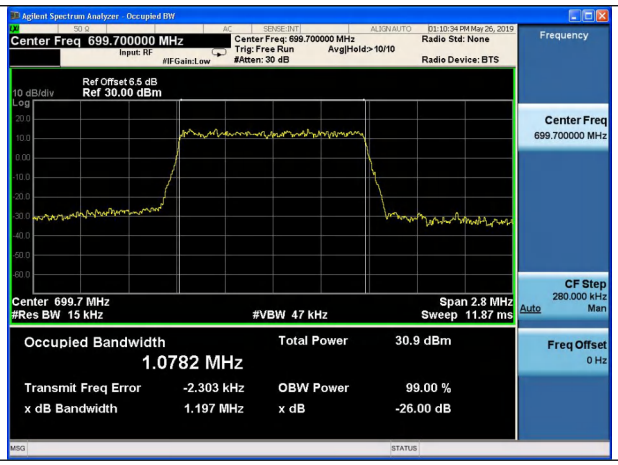


Fig.1

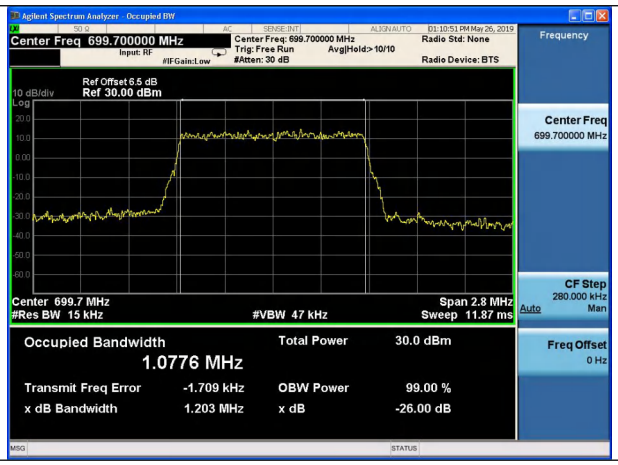


Fig.2

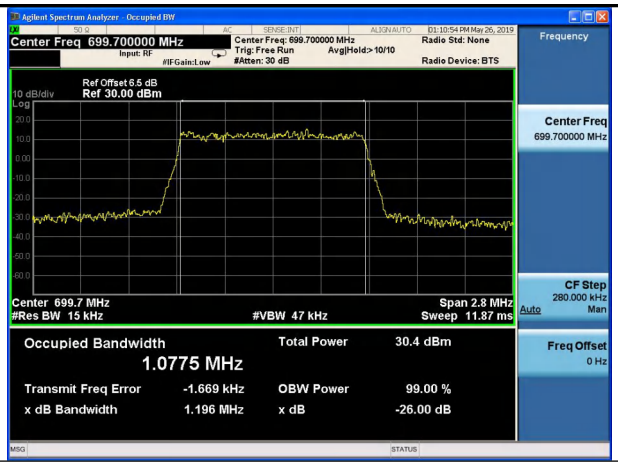


Fig.3

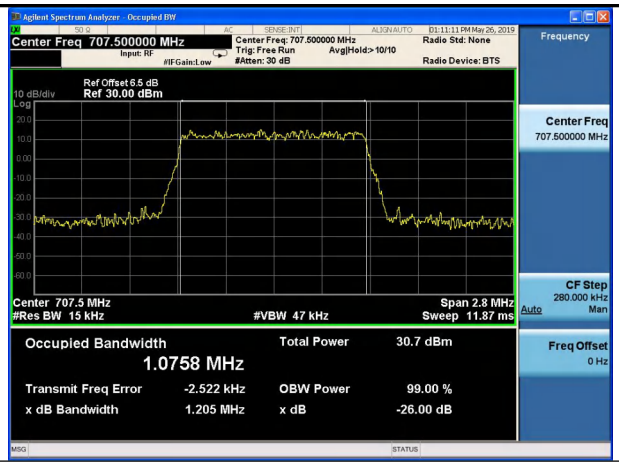


Fig.4

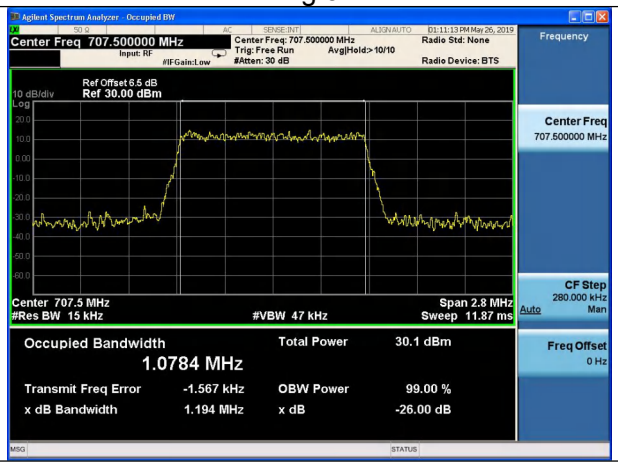
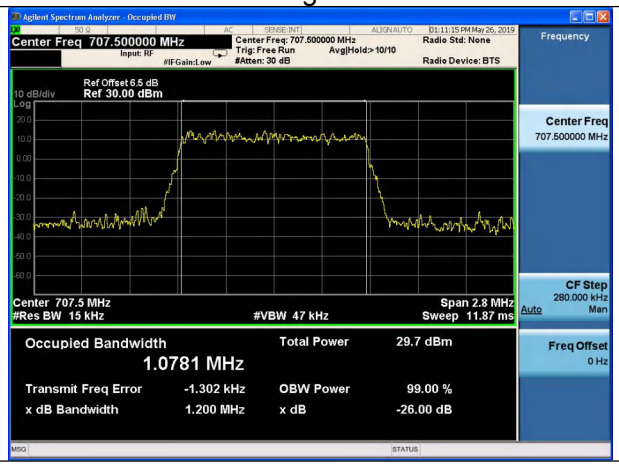


Fig.5



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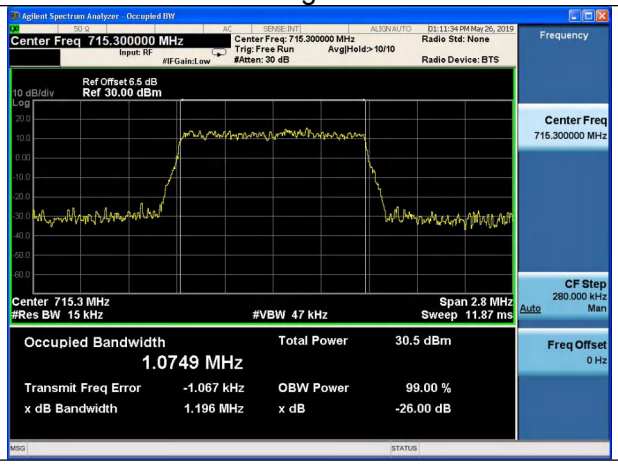

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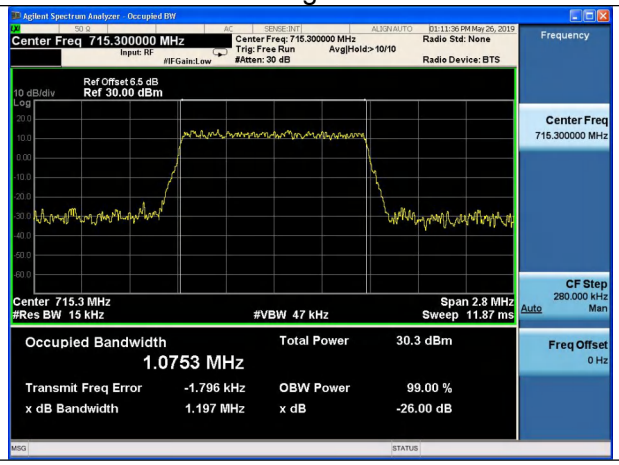

Fig.8

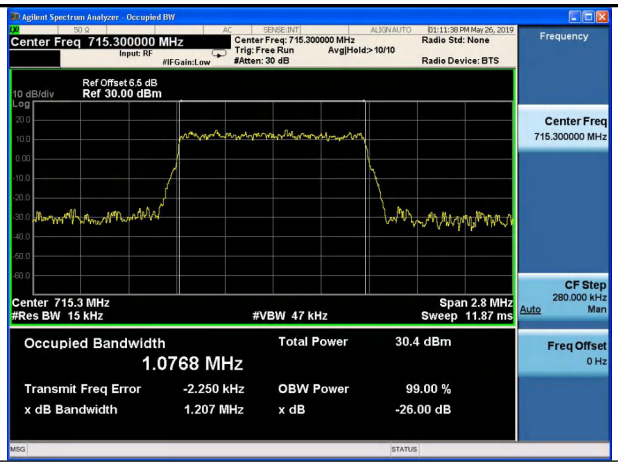

Fig.9

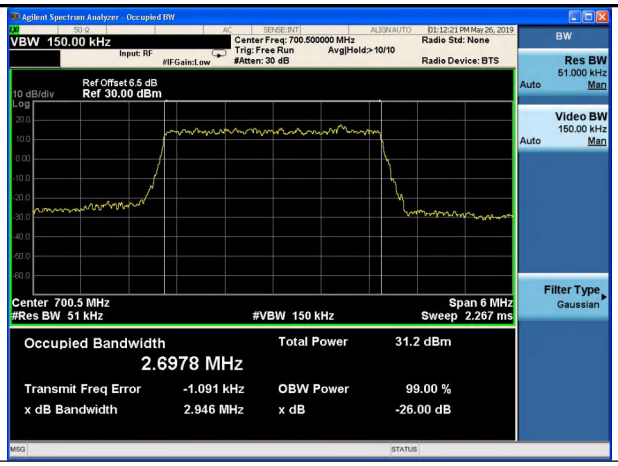

Fig.10

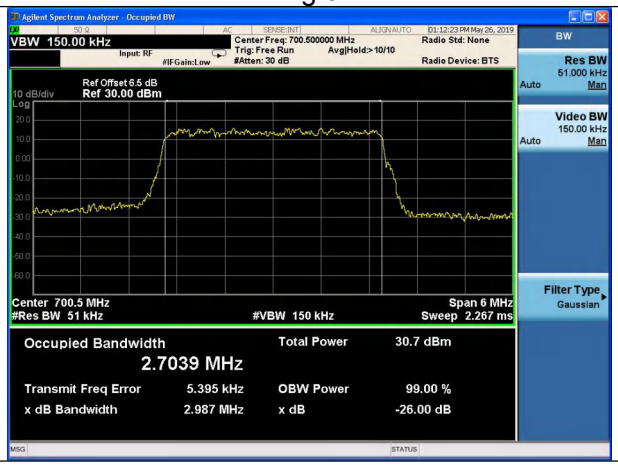

Fig.11

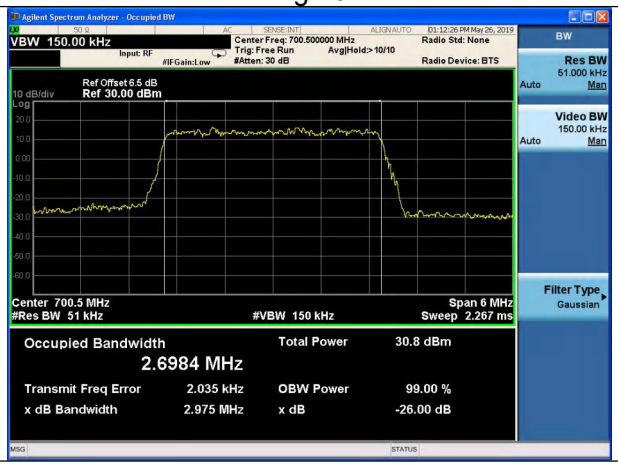

Fig.12

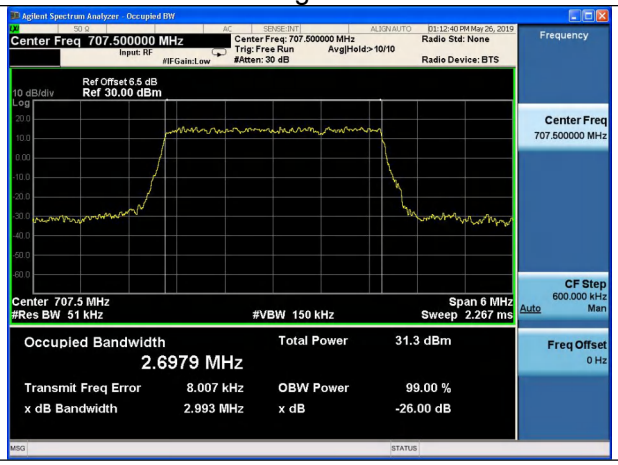

Fig.13

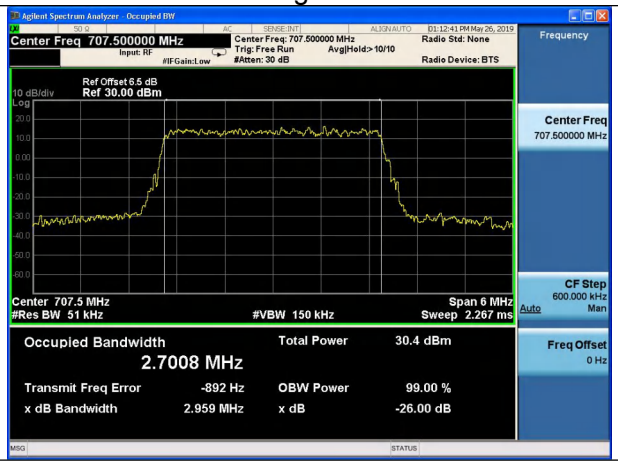

Fig.14

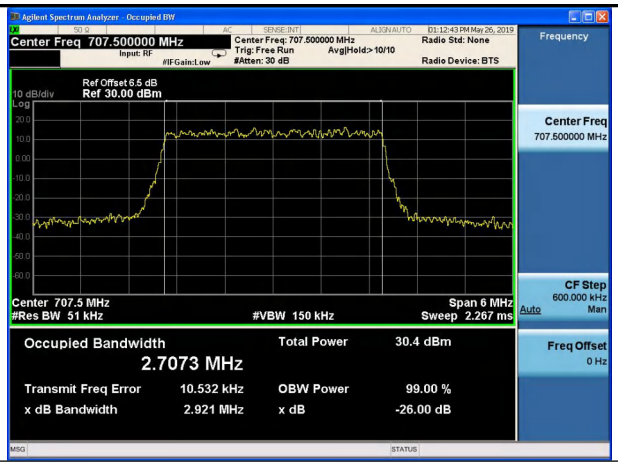

Fig.15

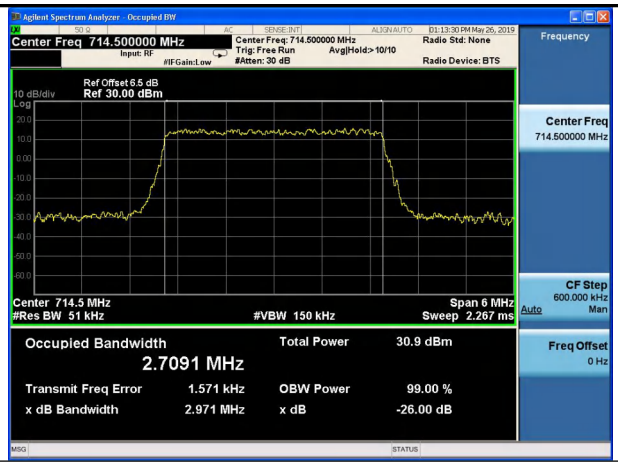

Fig.16

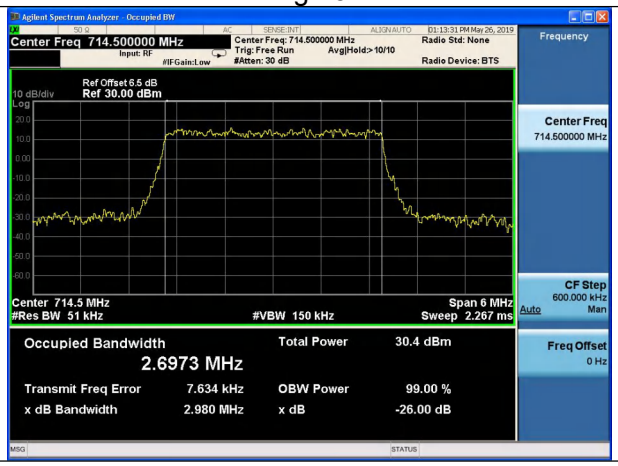

Fig.17

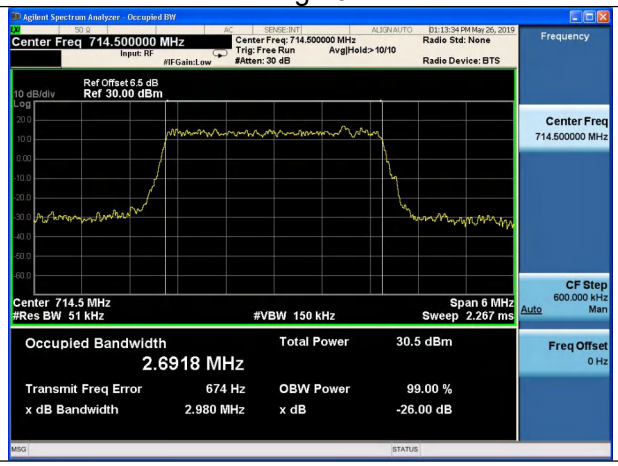

Fig.18

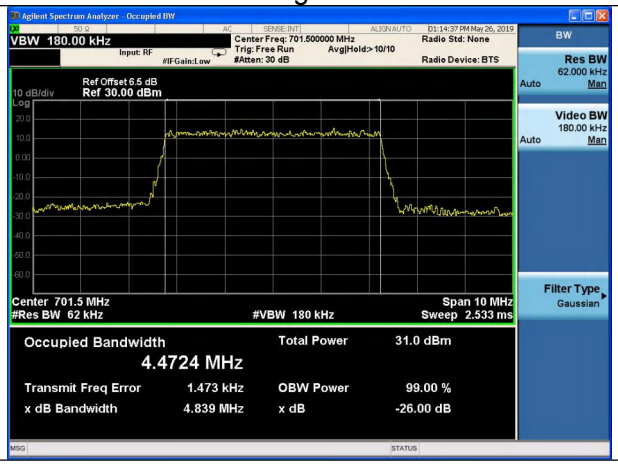

Fig.19

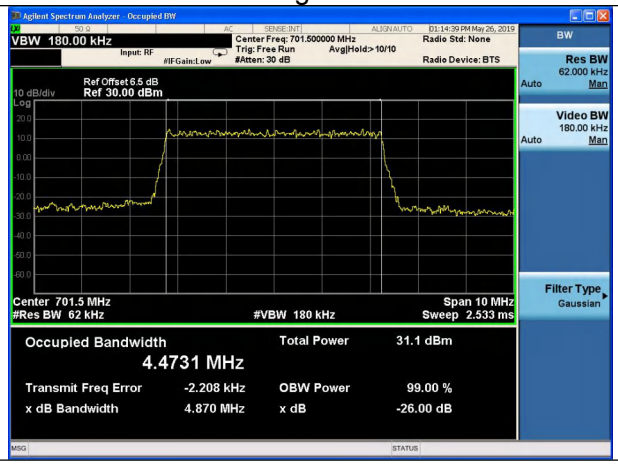

Fig.20

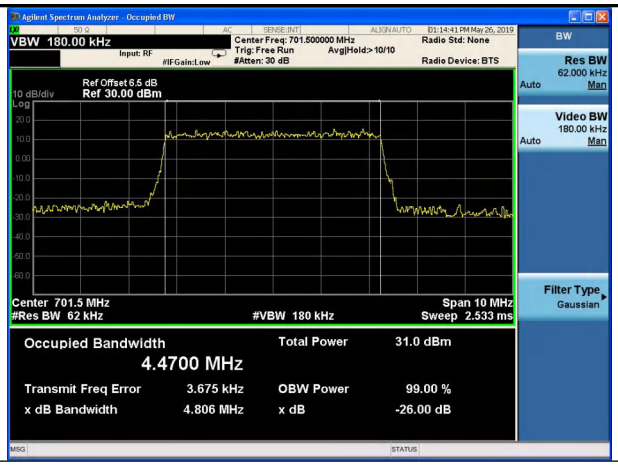

Fig.21

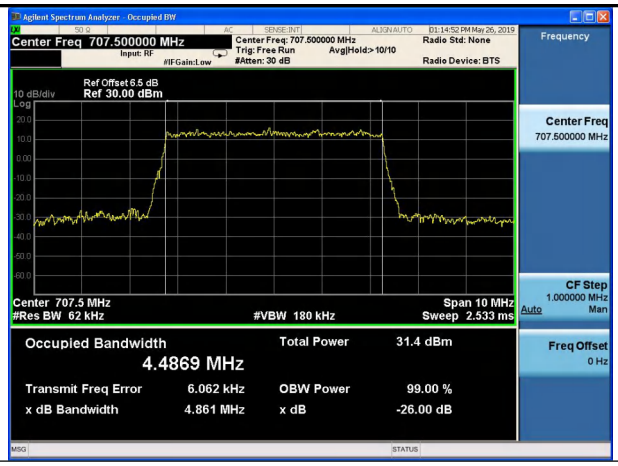

Fig.22

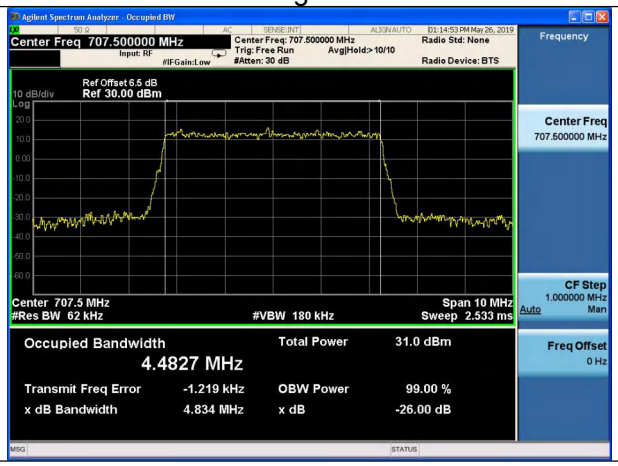

Fig.23

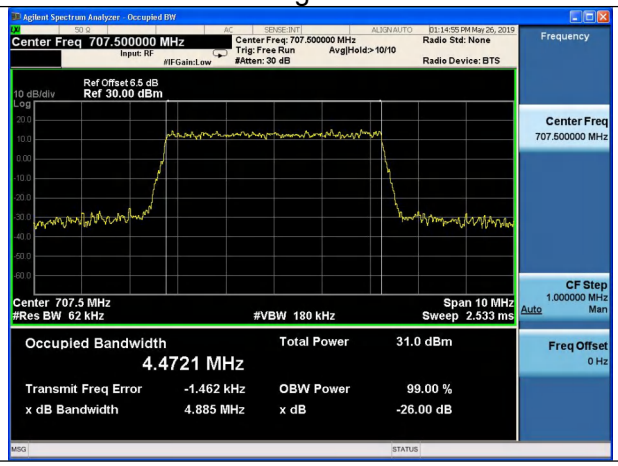

Fig.24

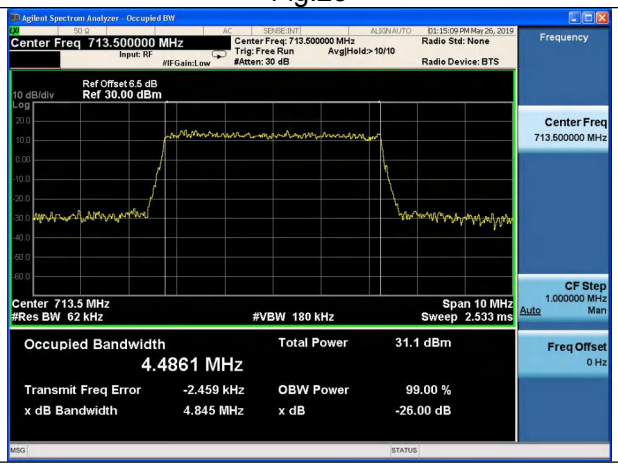

Fig.25

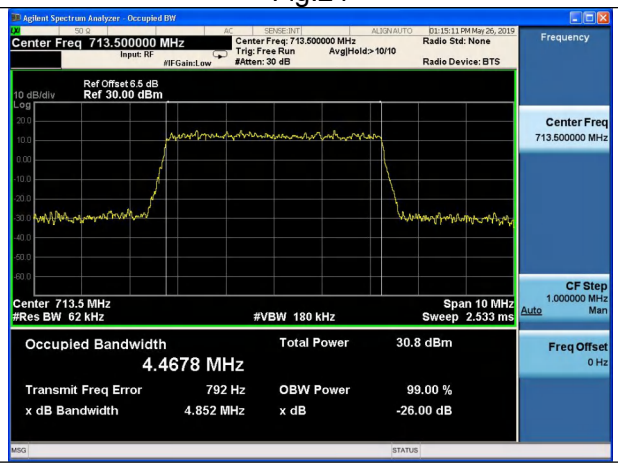

Fig.26