

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band CA_7C

1 RF Power Output

OUTPUT POWER FOR LTE BAND 7 (10MHz + 20.0MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
10MHz / 20MHz	2499.3	2511	QPSK	1	49	1	0	23.84
				50	0	100	0	21.68
			16QAM	1	49	1	0	21.25
				50	0	100	0	19.85
			64QAM	1	49	1	0	20.88
				50	0	100	0	19.24
	2583.8	2595.9	QPSK	1	49	1	0	23.76
				50	0	100	0	21.58
			16QAM	1	49	1	0	21.17
				50	0	100	0	19.77
			64QAM	1	49	1	0	20.73
				50	0	100	0	19.15
	2668.3	2680	QPSK	1	49	1	0	23.79
				50	0	100	0	21.62
			16QAM	1	49	1	0	21.24
				50	0	100	0	19.84
			64QAM	1	49	1	0	20.75
				50	0	100	0	19.20

OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
20MHz/ 10MHz	2506	2517.7	QPSK	1	99	1	0	23.91
				100	0	50	0	21.76
			16QAM	1	99	1	0	21.33
				100	0	50	0	19.91
			64QAM	1	99	1	0	20.96
				100	0	50	0	19.30
	2590.5	2602.2	QPSK	1	99	1	0	23.81
				100	0	50	0	21.62
			16QAM	1	99	1	0	21.25
				100	0	50	0	19.86
			64QAM	1	99	1	0	20.80
				100	0	50	0	19.24
	2675	2686.7	QPSK	1	99	1	0	23.83
				100	0	50	0	21.69
			16QAM	1	99	1	0	21.29
				100	0	50	0	19.92
			64QAM	1	99	1	0	20.83
				100	0	50	0	19.25

OUTPUT POWER FOR LTE BAND 7 (15MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
15MHz/ 10MHz	2501.3	2513.3	QPSK	1	74	1	0	23.97
				75	0	50	0	21.76
			16QAM	1	74	1	0	21.36
				75	0	50	0	19.96
			64QAM	1	74	1	0	20.98
				75	0	50	0	19.34
	2585.9	2597.9	QPSK	1	74	1	0	23.87
				75	0	50	0	21.67
			16QAM	1	74	1	0	21.28
				75	0	50	0	19.87
			64QAM	1	74	1	0	20.86
				75	0	50	0	19.26
	2670.5	2682.5	QPSK	1	74	1	0	23.88
				75	0	50	0	21.73
			16QAM	1	74	1	0	21.36
				75	0	50	0	19.92
			64QAM	1	74	1	0	20.88
				75	0	50	0	19.30

OUTPUT POWER FOR LTE BAND 7(15MHz + 15MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
15MHz/ 10MHz	2503.5	2515.5	QPSK	1	74	1	0	23.92
				75	0	75	0	21.76
			16QAM	1	74	1	0	21.34
				75	0	75	0	19.93
			64QAM	1	74	1	0	20.96
				75	0	75	0	19.35
	2588.1	2600.1	QPSK	1	74	1	0	23.87
				75	0	75	0	21.70
			16QAM	1	74	1	0	21.30
				75	0	75	0	19.90
			64QAM	1	74	1	0	20.83
				75	0	75	0	19.28
	2672.7	2684.7	QPSK	1	74	1	0	23.89
				75	0	75	0	21.75
			16QAM	1	74	1	0	21.35
				75	0	75	0	19.96
			64QAM	1	74	1	0	20.85
				75	0	75	0	19.28

OUTPUT POWER FOR LTE BAND 7 (15MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
15MHz/ 20MHz	2501.5	2515.9	QPSK	1	74	1	0	23.99
				75	0	100	0	21.81
			16QAM	1	74	1	0	21.43
				75	0	100	0	20.03
			64QAM	1	74	1	0	21.04
				75	0	100	0	19.40
	2583.6	2598.0	QPSK	1	74	1	0	23.93
				75	0	100	0	21.71
			16QAM	1	74	1	0	21.33
				75	0	100	0	19.92
			64QAM	1	74	1	0	20.88
				75	0	100	0	19.30
	2665.6	2680	QPSK	1	74	1	0	23.96
				75	0	100	0	21.76
			16QAM	1	74	1	0	21.41
				75	0	100	0	19.98
			64QAM	1	74	1	0	20.89
				75	0	100	0	19.33

OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
20MHz/ 15MHz	2506	2520.4	QPSK	1	99	1	0	24.01
				100	0	75	0	21.86
			16QAM	1	99	1	0	21.40
				100	0	75	0	20.01
			64QAM	1	99	1	0	21.05
				100	0	75	0	19.39
	2588.1	2602.5	QPSK	1	99	1	0	23.91
				100	0	75	0	21.74
			16QAM	1	99	1	0	21.35
				100	0	75	0	19.92
			64QAM	1	99	1	0	20.88
				100	0	75	0	19.28
	2670.1	2684.5	QPSK	1	99	1	0	23.94
				100	0	75	0	21.79
			16QAM	1	99	1	0	21.37
				100	0	75	0	20.00
			64QAM	1	99	1	0	20.92
				100	0	75	0	19.38

OUTPUT POWER FOR LTE BAND 7 (20MHz + 20MHz)

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	Conducted Average (dBm)
				Size	Offset	Size	Offset	
20MHz/ 20MHz	2503.5	2518.5	QPSK	1	99	1	0	23.95
				100	0	100	0	21.77
			16QAM	1	99	1	0	21.35
				100	0	100	0	19.96
			64QAM	1	99	1	0	20.96
				100	0	100	0	19.30
	2585.5	2600.5	QPSK	1	99	1	0	23.85
				100	0	100	0	21.67
			16QAM	1	99	1	0	21.23
				100	0	100	0	19.86
			64QAM	1	99	1	0	20.84
				100	0	100	0	19.23
	2667.5	2682.5	QPSK	1	99	1	0	23.89
				100	0	100	0	21.69
			16QAM	1	99	1	0	21.35
				100	0	100	0	19.94
			64QAM	1	99	1	0	20.87
				100	0	100	0	19.28

2 Occupied Bandwidth
LTE BAND CA_7C

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	99% OBW (MHz)	-26dB OBW (MHz)	Plot
				Size	Offset	Size	Offset			
10MHz / 20MHz	2505.5	2519.9	QPSK	50	0	100	0	27.681	29.30	Fig.1
			16QAM	50	0	100	0	27.678	29.19	Fig.2
			64QAM	50	0	100	0	27.641	29.22	Fig.3
	2525.6	2540	QPSK	50	0	100	0	27.678	28.98	Fig.4
			16QAM	50	0	100	0	27.653	28.89	Fig.5
			64QAM	50	0	100	0	27.679	28.98	Fig.6
	2545.6	2560	QPSK	50	0	100	0	27.655	29.03	Fig.7
			16QAM	50	0	100	0	27.668	29.09	Fig.8
			64QAM	50	0	100	0	27.625	28.93	Fig.9
20MHz/ 10MHz	2510	2524.4	QPSK	100	0	50	0	27.631	28.53	Fig.10
			16QAM	100	0	50	0	27.692	28.85	Fig.11
			64QAM	100	0	50	0	27.741	29.16	Fig.12
	2530.1	2544.5	QPSK	100	0	50	0	27.706	29.21	Fig.13
			16QAM	100	0	50	0	27.670	29.06	Fig.14
			64QAM	100	0	50	0	27.746	28.97	Fig.15
	2550.1	2564.5	QPSK	100	0	50	0	27.732	29.13	Fig.16
			16QAM	100	0	50	0	27.686	28.96	Fig.17
			64QAM	100	0	50	0	27.704	29.15	Fig.18
15MHz/ 10MHz	2507.5	2519.5	QPSK	75	0	50	0	23.151	24.59	Fig.19
			16QAM	75	0	50	0	23.157	24.47	Fig.20
			64QAM	75	0	50	0	23.189	24.33	Fig.21
	2530.1	2542.1	QPSK	75	0	50	0	23.176	24.58	Fig.22
			16QAM	75	0	50	0	23.176	24.45	Fig.23
			64QAM	75	0	50	0	23.150	24.36	Fig.24
	2552.7	2564.7	QPSK	75	0	50	0	23.185	24.54	Fig.25
			16QAM	75	0	50	0	23.142	24.53	Fig.26
			64QAM	75	0	50	0	23.116	24.47	Fig.27
15MHz/ 15MHz	2507.5	2522.5	QPSK	75	0	75	0	28.353	30.05	Fig.28
			16QAM	75	0	75	0	28.362	30.00	Fig.29
			64QAM	75	0	75	0	28.326	29.66	Fig.30
	2527.5	2542.5	QPSK	75	0	75	0	28.361	30.01	Fig.31
			16QAM	75	0	75	0	28.381	29.94	Fig.32
			64QAM	75	0	75	0	28.321	30.04	Fig.33
	2547.5	2562.5	QPSK	75	0	75	0	28.323	29.92	Fig.34
			16QAM	75	0	75	0	28.254	29.95	Fig.35
			64QAM	75	0	75	0	28.372	29.80	Fig.36

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC RB	PCC RB	SCC1 RB	SCC1 RB	99% OBW	-26dB OBW	Plot
				Size	Offset	Size	Offset	(MHz)	(MHz)	
15MHz/ 20MHz	2507.8	2524.9	QPSK	75	0	100	0	32.610	34.34	Fig.37
			16QAM	75	0	100	0	32.638	34.24	Fig.38
			64QAM	75	0	100	0	32.623	34.23	Fig.39
	2525.3	2542.7	QPSK	75	0	100	0	32.605	34.42	Fig.40
			16QAM	75	0	100	0	32.605	34.42	Fig.41
			64QAM	75	0	100	0	32.619	34.35	Fig.42
	2542.9	2560	QPSK	75	0	100	0	32.606	34.44	Fig.43
			16QAM	75	0	100	0	32.572	34.30	Fig.44
			64QAM	75	0	100	0	32.576	34.10	Fig.45
20MHz/ 15MHz	2510	2527.1	QPSK	75	0	100	0	32.599	34.31	Fig.46
			16QAM	75	0	100	0	32.565	34.26	Fig.47
			64QAM	75	0	100	0	32.634	34.22	Fig.48
	2527.6	2544.7	QPSK	100	0	75	0	32.612	34.48	Fig.49
			16QAM	100	0	75	0	32.626	34.27	Fig.50
			64QAM	100	0	75	0	32.592	34.34	Fig.51
	2545.1	2562.2	QPSK	100	0	75	0	32.626	34.49	Fig.52
			16QAM	100	0	75	0	32.691	34.41	Fig.53
			64QAM	100	0	75	0	32.588	34.35	Fig.54
20MHz/ 20MHz	2510	2529.8	QPSK	100	0	100	0	37.486	39.61	Fig.55
			16QAM	100	0	100	0	37.515	39.65	Fig.56
			64QAM	100	0	100	0	37.530	39.46	Fig.57
	2525.1	2544.9	QPSK	100	0	100	0	37.536	39.63	Fig.58
			16QAM	100	0	100	0	37.496	39.44	Fig.59
			64QAM	100	0	100	0	37.571	39.40	Fig.60
	2540.2	2560	QPSK	100	0	100	0	37.531	39.53	Fig.61
			16QAM	100	0	100	0	37.527	39.31	Fig.62
			64QAM	100	0	100	0	37.510	39.26	Fig.63

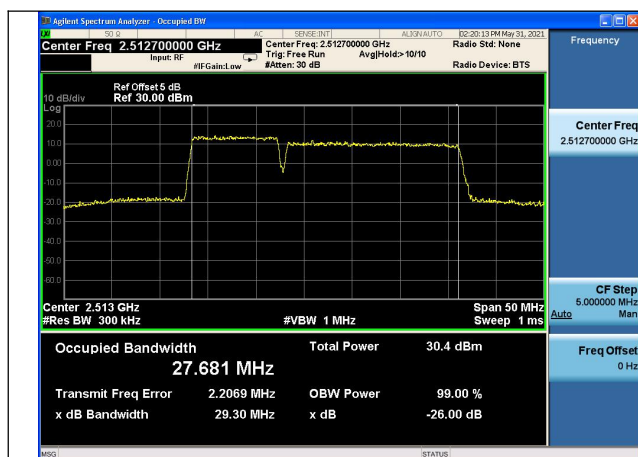


Fig.1

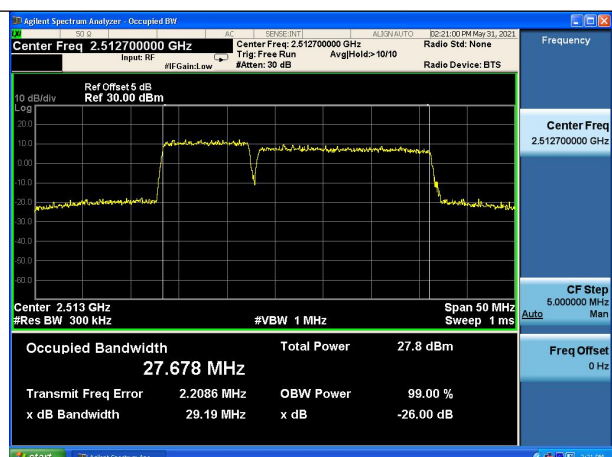


Fig.2

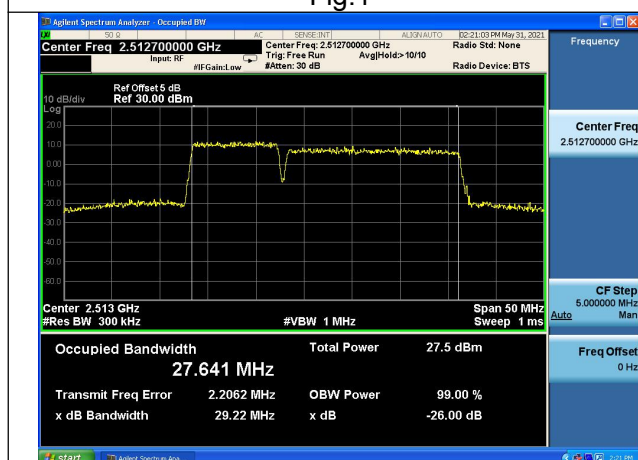


Fig.3

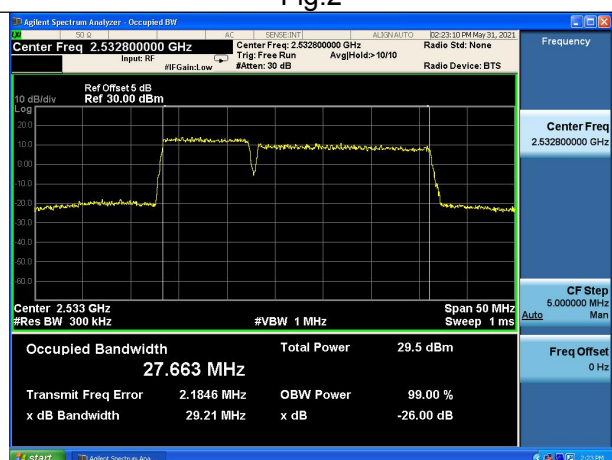


Fig.4

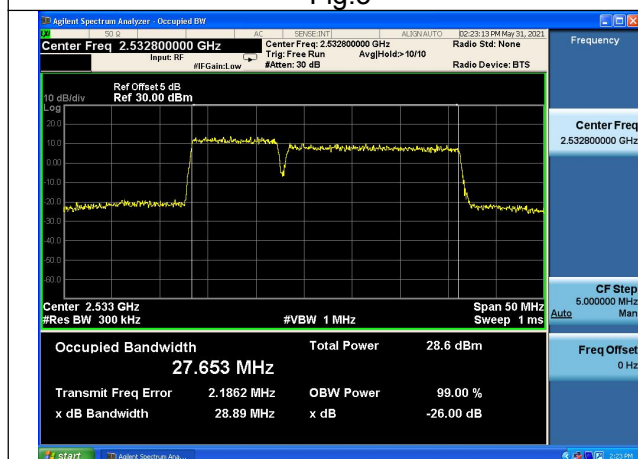


Fig.5

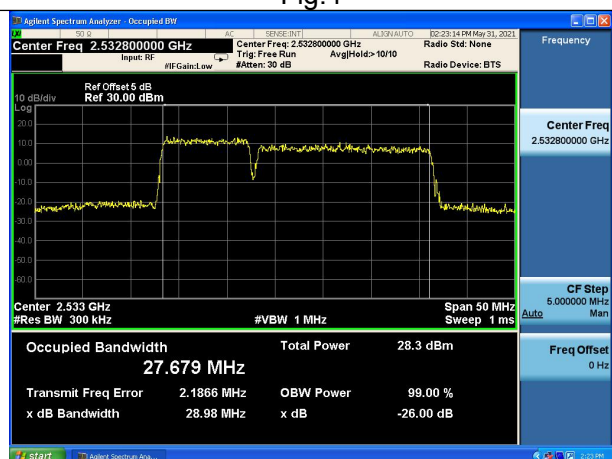


Fig.6

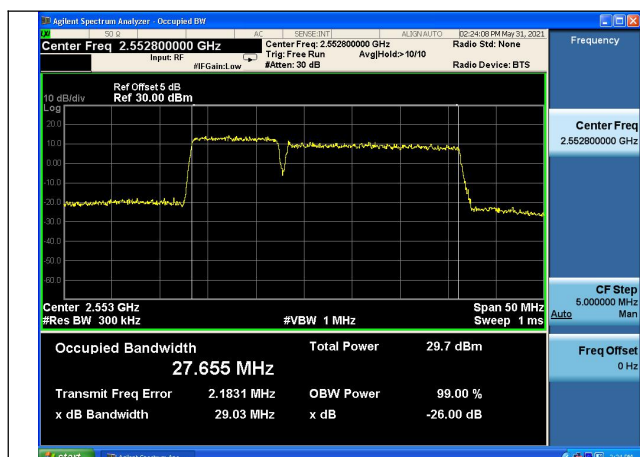


Fig.7

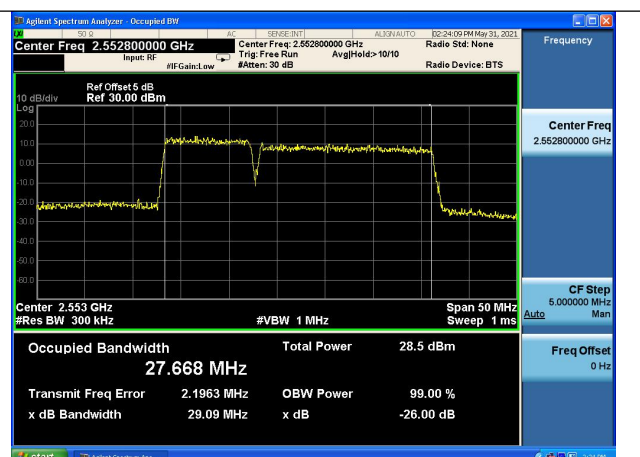


Fig.8

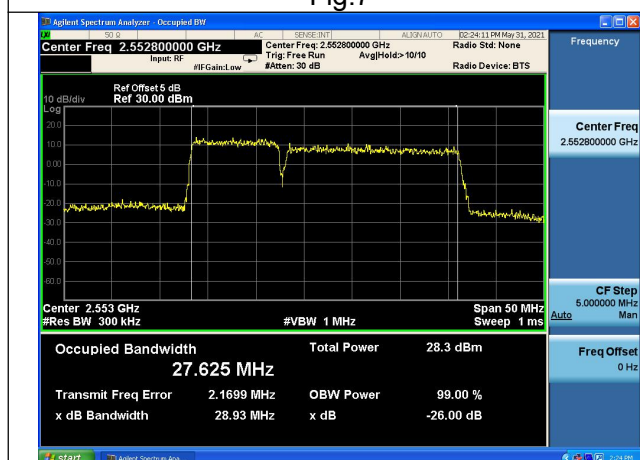


Fig.9

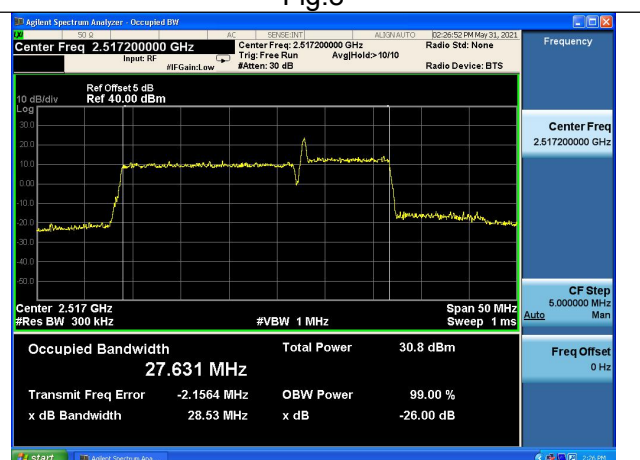


Fig.10

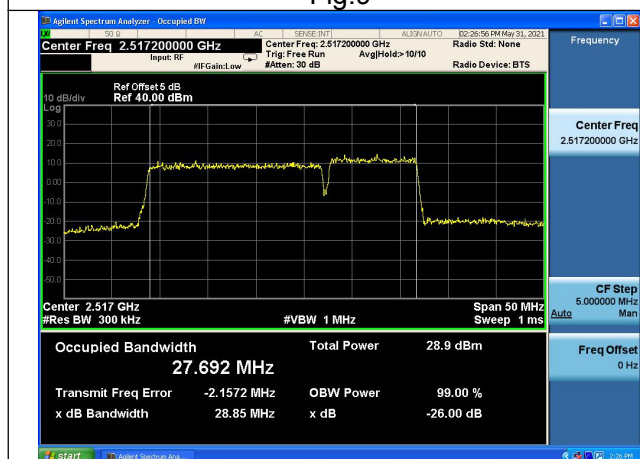


Fig.11

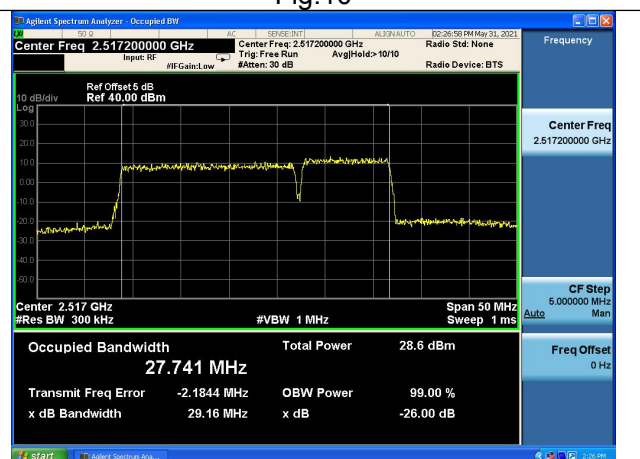


Fig.12

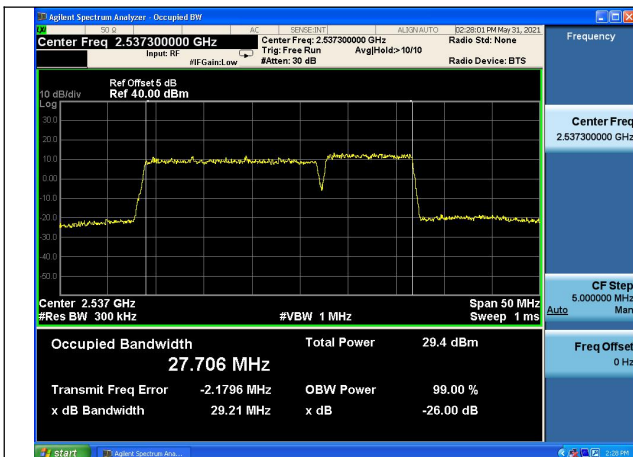


Fig.13

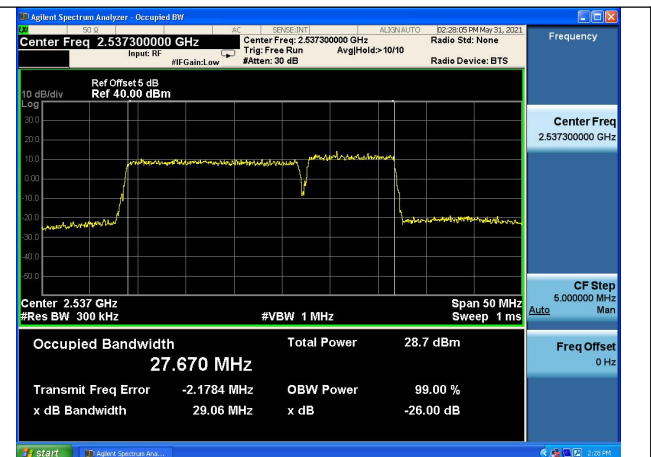


Fig.14

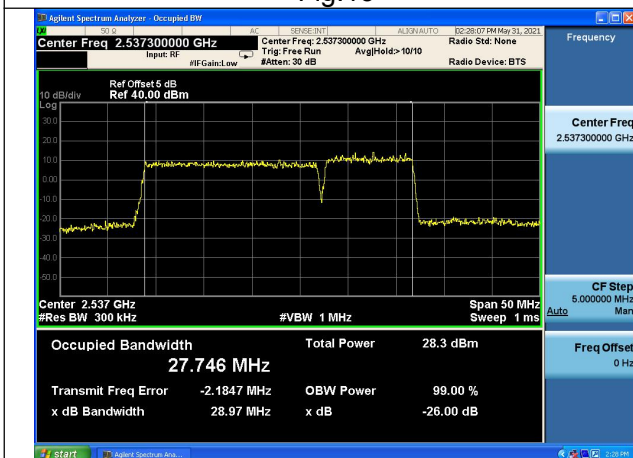


Fig.15

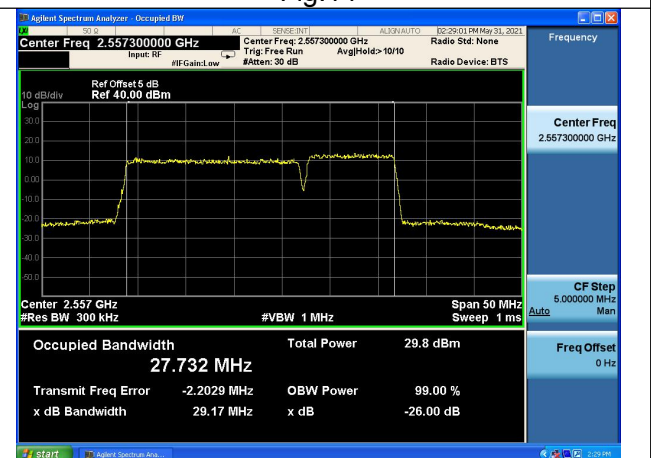


Fig.16

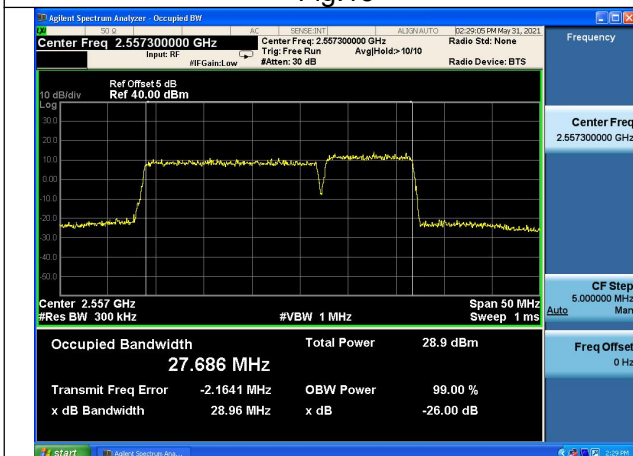


Fig.17

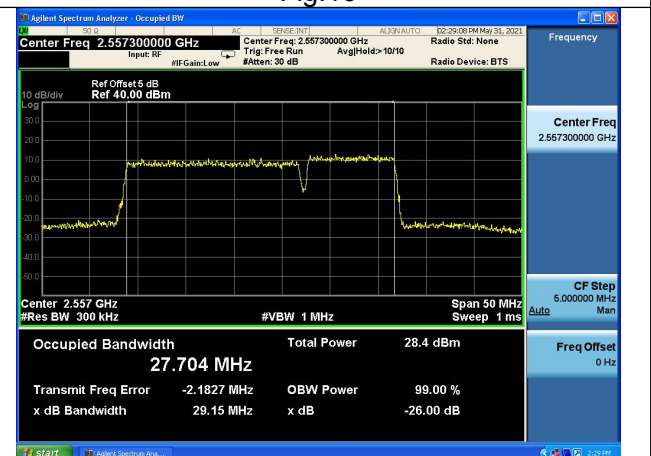


Fig.18

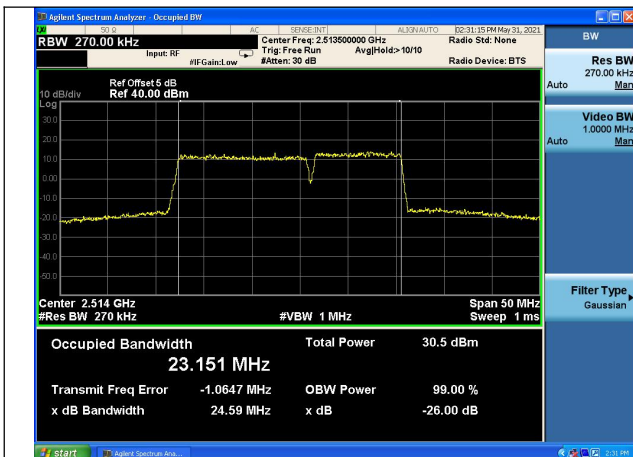


Fig.19

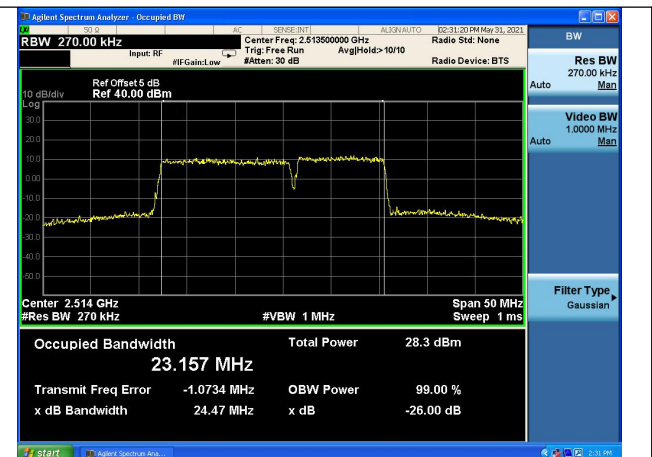


Fig.20

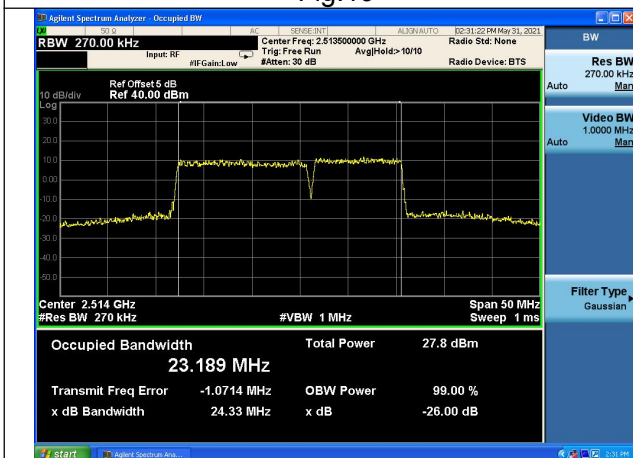


Fig.21

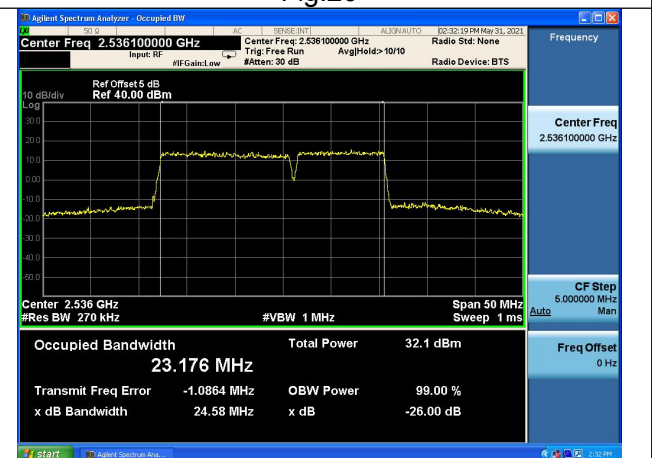


Fig.22

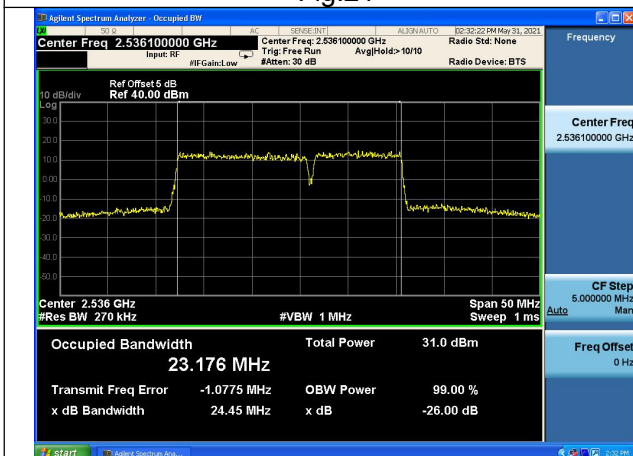


Fig.23

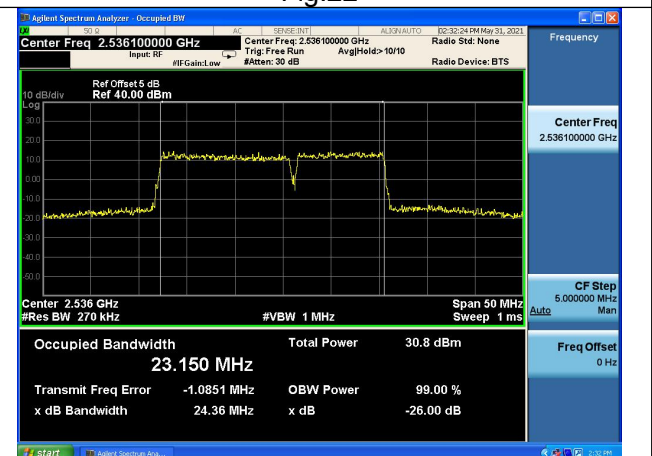


Fig.24

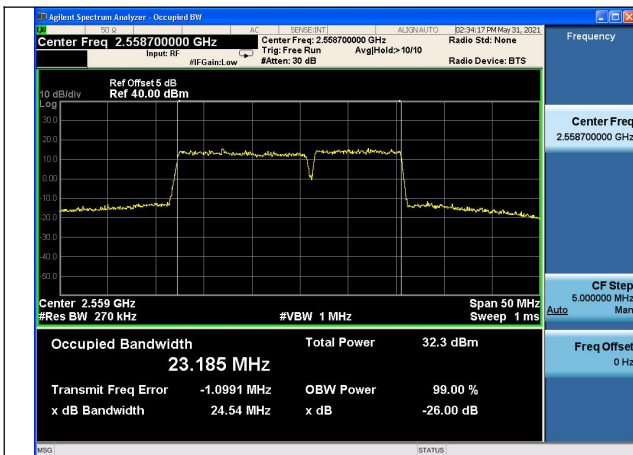


Fig.25



Fig.26

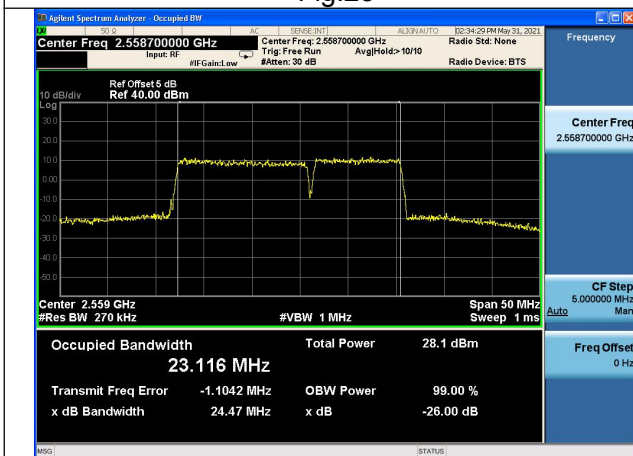


Fig.27

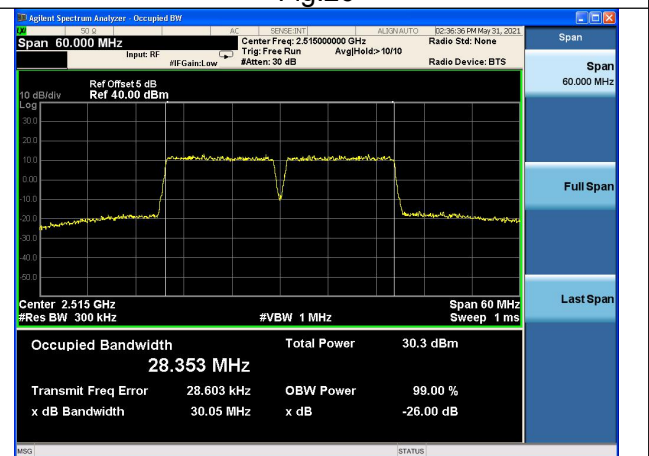


Fig.28

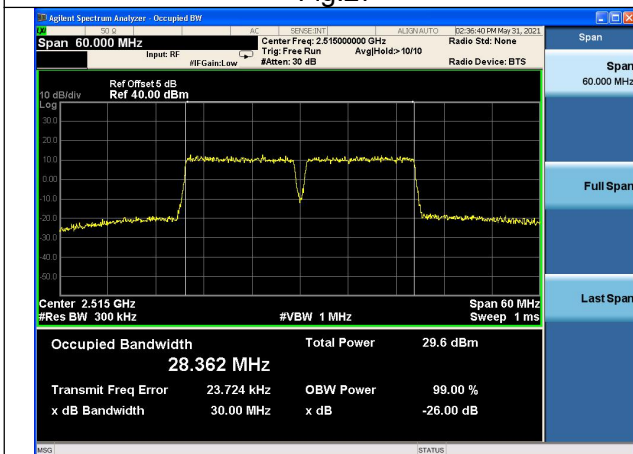


Fig.29

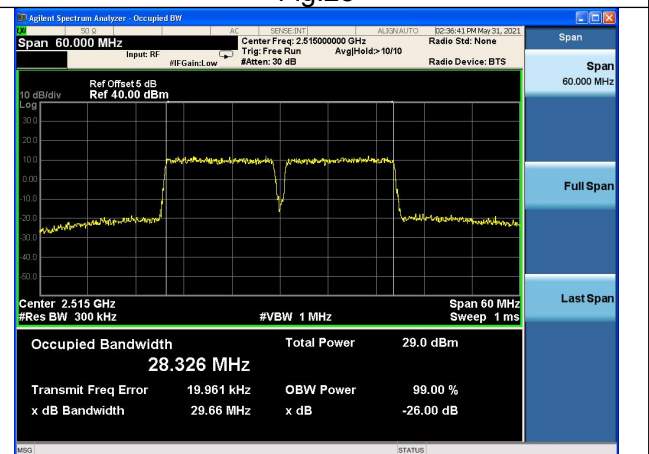


Fig.30