

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 7 CA_7C

1 RF Power Output

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

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	Conducted Average (dBm)	
				RB	RB	RB	RB		
				Size	Offset	Size	Offset		
10MHz / 20MHz	2505.5	2519.9	QPSK	1	49	1	0	19.30	
				50	0	100	0	16.34	
			16QAM	1	49	1	0	17.97	
				50	0	100	0	14.80	
			64QAM	1	49	1	0	17.86	
				50	0	100	0	14.72	
	2525.6	2540	QPSK	1	49	1	0	19.27	
				50	0	100	0	16.40	
			16QAM	1	49	1	0	17.87	
				50	0	100	0	14.86	
			64QAM	1	49	1	0	17.86	
				50	0	100	0	14.79	
	2545.6	2560	QPSK	1	49	1	0	18.81	
				50	0	100	0	15.17	
			16QAM	1	49	1	0	17.37	
				50	0	100	0	13.49	
			64QAM	1	49	1	0	17.32	
				50	0	100	0	13.52	

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	2510	2524.4	QPSK	1	99	1	0	19.24
				100	0	50	0	16.45
			16QAM	1	99	1	0	17.97
				100	0	50	0	14.75
			64QAM	1	99	1	0	17.80
				100	0	50	0	14.71
	2530.1	2544.5	QPSK	1	99	1	0	19.18
				100	0	50	0	16.52
			16QAM	1	99	1	0	18.01
				100	0	50	0	14.83
			64QAM	1	99	1	0	17.91
				100	0	50	0	14.83
	2550.1	2564.5	QPSK	1	99	1	0	18.77
				100	0	50	0	15.13
			16QAM	1	99	1	0	17.43
				100	0	50	0	13.57
			64QAM	1	99	1	0	17.33
				100	0	50	0	13.44

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	2507.5	2519.5	QPSK	1	49	1	0	19.22
				50	0	75	0	16.38
			16QAM	1	49	1	0	17.97
				50	0	75	0	14.79
			64QAM	1	49	1	0	17.76
				50	0	75	0	14.79
	2530.1	2542.1	QPSK	1	49	1	0	19.17
				50	0	75	0	16.49
			16QAM	1	49	1	0	17.91
				50	0	75	0	14.78
			64QAM	1	49	1	0	17.95
				50	0	75	0	14.77
	2552.7	2564.7	QPSK	1	49	1	0	18.76
				50	0	75	0	15.19
			16QAM	1	49	1	0	17.39
				50	0	75	0	13.48
			64QAM	1	49	1	0	17.42
				50	0	75	0	13.56

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

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	Conducted Average (dBm)
				RB	RB	RB	RB	
				Size	Offset	Size	Offset	
15MHz/ 15MHz	2507.5	2522.5	QPSK	1	74	1	0	19.21
				75	0	75	0	16.44
			16QAM	1	74	1	0	17.97
				75	0	75	0	14.78
			64QAM	1	74	1	0	17.78
				75	0	75	0	14.74
	2527.5	2542.5	QPSK	1	74	1	0	19.22
				75	0	75	0	16.44
			16QAM	1	74	1	0	18.00
				75	0	75	0	14.83
			64QAM	1	74	1	0	17.87
				75	0	75	0	14.82
	2547.5	2562.5	QPSK	1	74	1	0	18.80
				75	0	75	0	15.23
			16QAM	1	74	1	0	17.35
				75	0	75	0	13.55
			64QAM	1	74	1	0	17.31
				75	0	75	0	13.52

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

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	Conducted Average (dBm)
				RB	RB	RB	RB	
				Size	Offset	Size	Offset	
15MHz/ 20MHz	2507.8	2524.9	QPSK	1	74	1	0	19.19
				75	0	100	0	16.42
			16QAM	1	74	1	0	17.95
				75	0	100	0	14.84
			64QAM	1	74	1	0	17.78
				75	0	100	0	14.76
	2525.3	2542.4	QPSK	1	74	1	0	19.23
				75	0	100	0	16.41
			16QAM	1	74	1	0	17.94
				75	0	100	0	14.79
			64QAM	1	74	1	0	17.93
				75	0	100	0	14.73
	2542.9	2560	QPSK	1	74	1	0	18.83
				75	0	100	0	15.13
			16QAM	1	74	1	0	17.39
				75	0	100	0	13.51
			64QAM	1	74	1	0	17.30
				75	0	100	0	13.54

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

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	Conducted Average (dBm)
				RB	RB	RB	RB	
				Size	Offset	Size	Offset	
20MHz/ 15MHz	2510	2527.1	QPSK	1	99	1	0	19.26
				100	0	75	0	16.37
			16QAM	1	99	1	0	17.93
				100	0	75	0	14.77
			64QAM	1	99	1	0	17.82
				100	0	75	0	14.78
	2527.6	2544.7	QPSK	1	99	1	0	19.20
				100	0	75	0	16.38
			16QAM	1	99	1	0	18.00
				100	0	75	0	14.86
			64QAM	1	99	1	0	17.95
				100	0	75	0	14.78
	2545.1	2562.2	QPSK	1	99	1	0	18.85
				100	0	75	0	15.18
			16QAM	1	99	1	0	17.40
				100	0	75	0	13.58
			64QAM	1	99	1	0	17.36
				100	0	75	0	13.51

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

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	Conducted Average (dBm)
				RB	RB	RB	RB	
				Size	Offset	Size	Offset	
20MHz/ 20MHz	2510	2529.8	QPSK	1	99	1	0	19.31
				100	0	100	0	16.47
			16QAM	1	99	1	0	17.98
				100	0	100	0	14.86
			64QAM	1	99	1	0	17.87
				100	0	100	0	14.85
	2525.1	2544.9	QPSK	1	99	1	0	19.31
				100	0	100	0	16.53
			16QAM	1	99	1	0	18.01
				100	0	100	0	14.93
			64QAM	1	99	1	0	17.98
				100	0	100	0	14.87
	2540.2	2560	QPSK	1	99	1	0	18.88
				100	0	100	0	15.26
			16QAM	1	99	1	0	17.49
				100	0	100	0	13.63
			64QAM	1	99	1	0	17.42
				100	0	100	0	13.31

2 Occupied Bandwidth

LTE BAND 7

Bandwidth	PCC	SCC	Modulation	PCC	PCC	SCC1	SCC1	99% OBW (MHz)	-26dB OBW (MHz)	Plot
	Frequency (MHz)	Frequency (MHz)		RB	RB	RB	RB			
				Size	Offset	Size	Offset			
10MHz/ 20MHz	2505.5	2519.9	QPSK	50	0	100	0	27.798	29.49	Fig.1
			16QAM	50	0	100	0	27.749	29.29	Fig.2
			64QAM	50	0	100	0	27.768	29.32	Fig.3
	2525.6	2540	QPSK	50	0	100	0	27.771	29.25	Fig.4
			16QAM	50	0	100	0	27.716	29.40	Fig.5
			64QAM	50	0	100	0	27.666	29.35	Fig.6
	2545.6	2560	QPSK	50	0	100	0	27.715	29.15	Fig.7
			16QAM	50	0	100	0	27.737	29.25	Fig.8
			64QAM	50	0	100	0	27.696	28.89	Fig.9
20MHz/ 10MHz	2510	2524.4	QPSK	100	0	50	0	27.749	29.18	Fig.10
			16QAM	100	0	50	0	27.711	29.22	Fig.11
			64QAM	100	0	50	0	27.684	29.13	Fig.12
	2530.1	2544.5	QPSK	100	0	50	0	27.777	29.06	Fig.13
			16QAM	100	0	50	0	27.729	29.10	Fig.14
			64QAM	100	0	50	0	27.710	29.18	Fig.15
	2550.1	2564.5	QPSK	100	0	50	0	27.780	29.34	Fig.16
			16QAM	100	0	50	0	27.769	29.19	Fig.17
			64QAM	100	0	50	0	27.854	29.06	Fig.18
15MHz/ 10MHz	2507.5	2519.5	QPSK	75	0	50	0	23.196	24.51	Fig.19
			16QAM	75	0	50	0	23.168	24.50	Fig.20
			64QAM	75	0	50	0	23.174	24.55	Fig.21
	2530.1	2542.1	QPSK	75	0	50	0	23.200	24.55	Fig.22
			16QAM	75	0	50	0	23.214	24.63	Fig.23
			64QAM	75	0	50	0	23.162	24.55	Fig.24
	2552.7	2564.7	QPSK	75	0	50	0	23.198	24.58	Fig.25
			16QAM	75	0	50	0	23.294	24.46	Fig.26
			64QAM	75	0	50	0	23.226	24.43	Fig.27
15MHz/ 15MHz	2507.5	2522.5	QPSK	75	0	75	0	28.324	29.97	Fig.28
			16QAM	75	0	75	0	28.371	30.00	Fig.29
			64QAM	75	0	75	0	28.383	29.84	Fig.30
	2527.5	2542.5	QPSK	75	0	75	0	28.289	29.95	Fig.31
			16QAM	75	0	75	0	28.366	29.99	Fig.32
			64QAM	75	0	75	0	28.394	30.12	Fig.33
	2547.5	2562.5	QPSK	75	0	75	0	28.372	30.17	Fig.34
			16QAM	75	0	75	0	28.340	29.84	Fig.35
			64QAM	75	0	75	0	28.423	29.99	Fig.36

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	99% OBW (MHz)	-26dB OBW (MHz)	Plot
				RB	RB	RB	RB			
				Size	Offset	Size	Offset			
15MHz/ 20MHz	2507.8	2524.9	QPSK	75	0	100	0	32.648	34.49	Fig.37
			16QAM	75	0	100	0	32.637	34.40	Fig.38
			64QAM	75	0	100	0	32.604	34.34	Fig.39
	2525.3	2542.4	QPSK	75	0	100	0	32.555	34.47	Fig.40
			16QAM	75	0	100	0	32.624	34.41	Fig.41
			64QAM	75	0	100	0	32.571	34.13	Fig.42
	2542.9	2560	QPSK	75	0	100	0	32.604	34.31	Fig.43
			16QAM	75	0	100	0	32.624	34.28	Fig.44
			64QAM	75	0	100	0	32.640	34.21	Fig.45
20MHz/ 15MHz	2510	2527.1	QPSK	100	0	75	0	32.652	34.46	Fig.46
			16QAM	100	0	75	0	32.633	34.03	Fig.47
			64QAM	100	0	75	0	32.628	34.25	Fig.48
	2527.6	2544.7	QPSK	100	0	75	0	32.571	34.29	Fig.49
			16QAM	100	0	75	0	32.563	34.27	Fig.50
			64QAM	100	0	75	0	32.519	34.28	Fig.51
	2545.1	2562.2	QPSK	100	0	75	0	32.683	34.37	Fig.52
			16QAM	100	0	75	0	32.709	34.27	Fig.53
			64QAM	100	0	75	0	32.583	34.47	Fig.54
20MHz/ 20MHz	2510	2529.8	QPSK	100	0	100	0	37.504	39.68	Fig.55
			16QAM	100	0	100	0	37.504	39.68	Fig.56
			64QAM	100	0	100	0	37.505	39.52	Fig.57
	2525.1	2544.9	QPSK	100	0	100	0	37.437	39.47	Fig.58
			16QAM	100	0	100	0	37.451	39.07	Fig.59
			64QAM	100	0	100	0	37.413	39.15	Fig.60
	2540.2	2560	QPSK	100	0	100	0	37.451	39.32	Fig.61
			16QAM	100	0	100	0	37.444	39.27	Fig.62
			64QAM	100	0	100	0	37.446	39.34	Fig.63

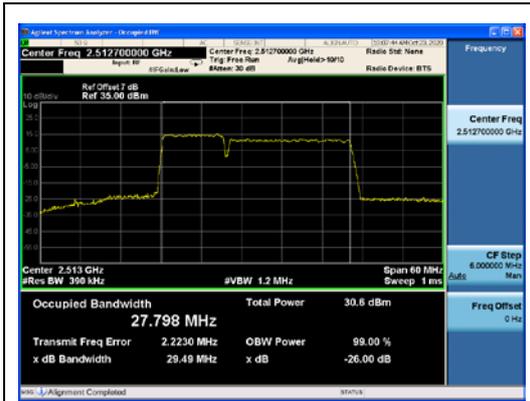


Fig.1

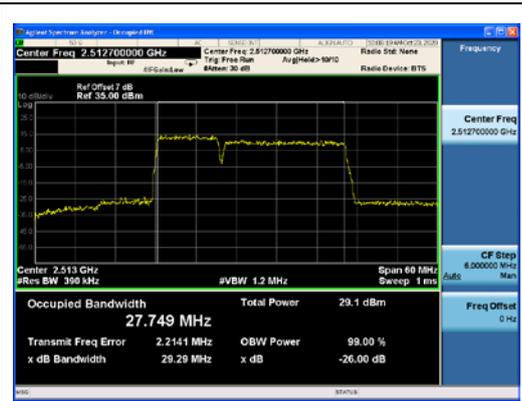


Fig.2

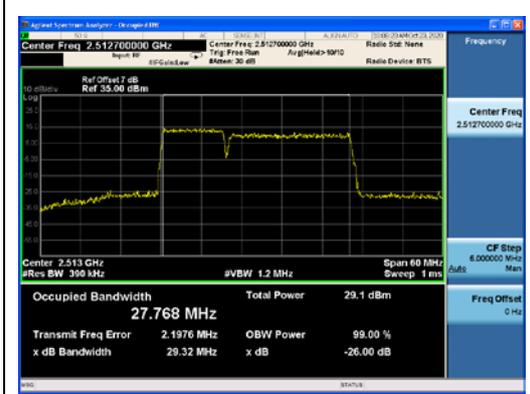


Fig.3

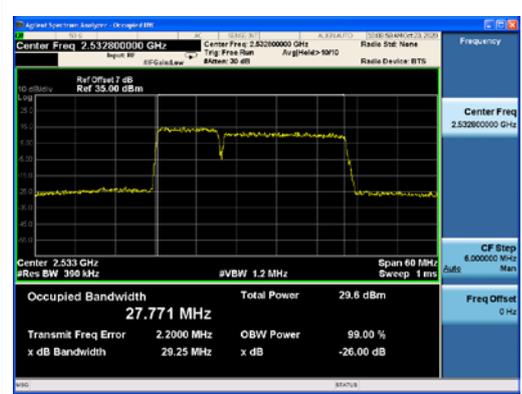


Fig.4

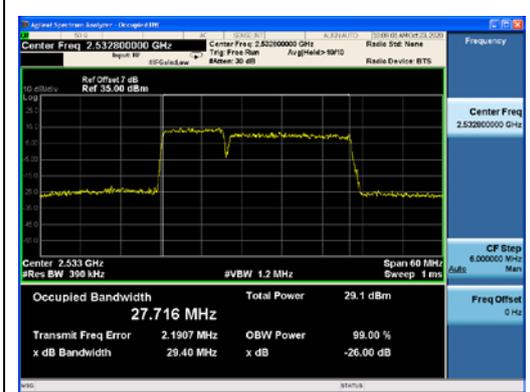


Fig.5

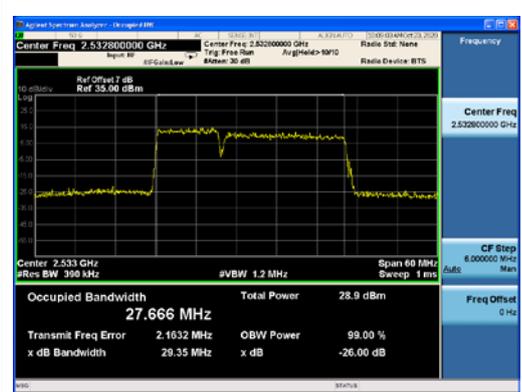


Fig.6



Fig.7



Fig.8

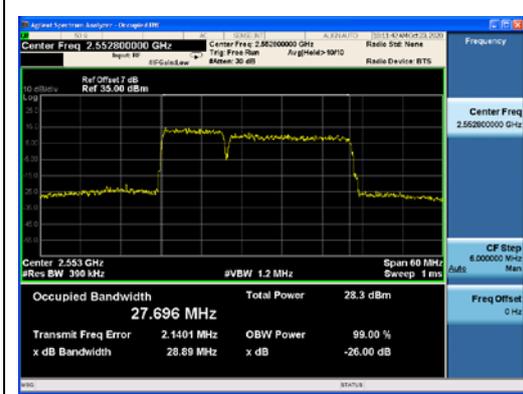


Fig.9



Fig.10

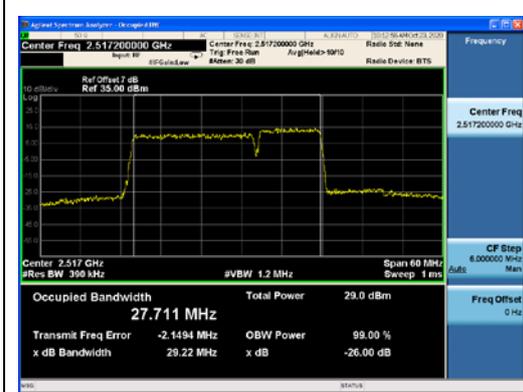


Fig.11

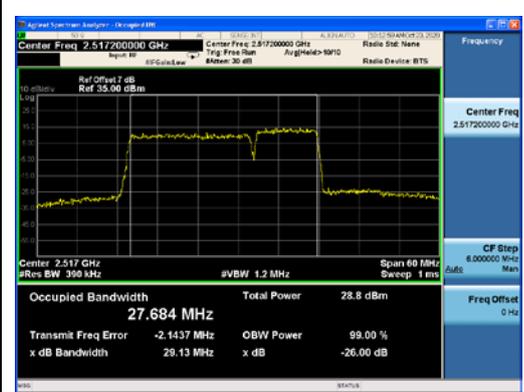


Fig.12

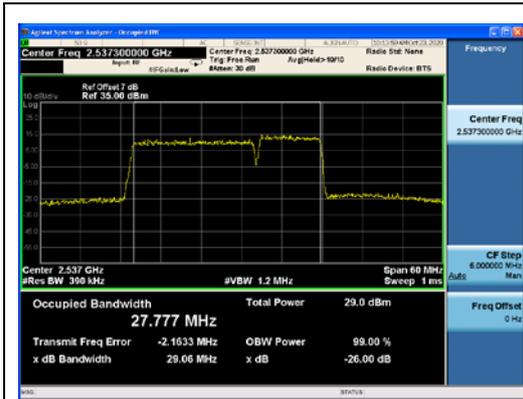


Fig.13

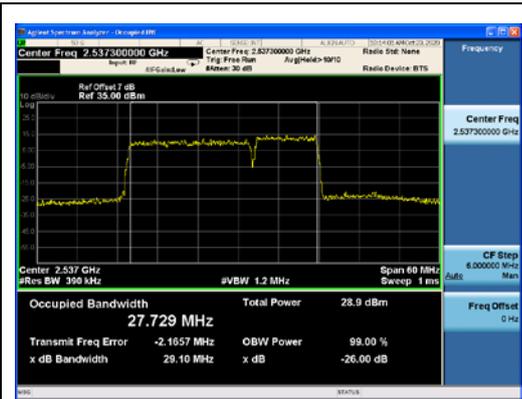


Fig.14

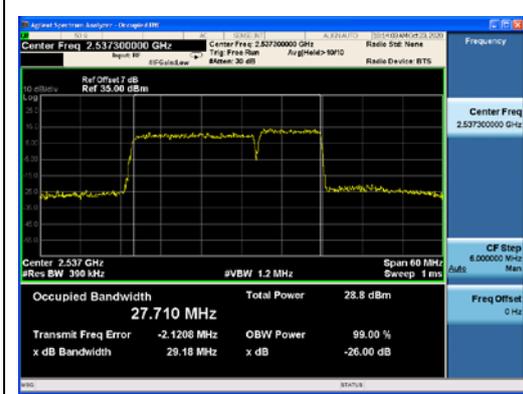


Fig.15

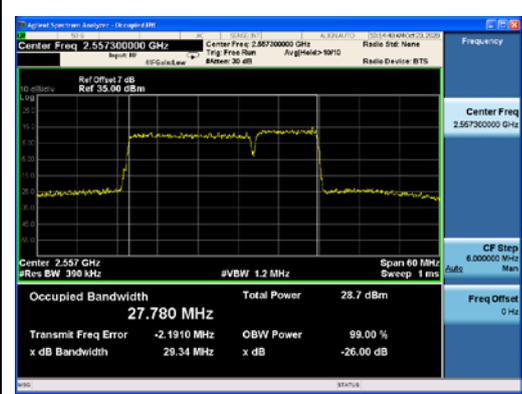


Fig.16

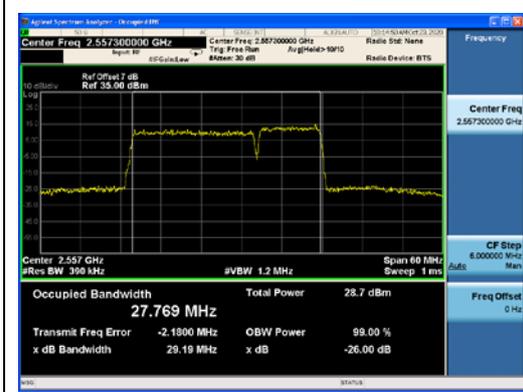


Fig.17



Fig.18

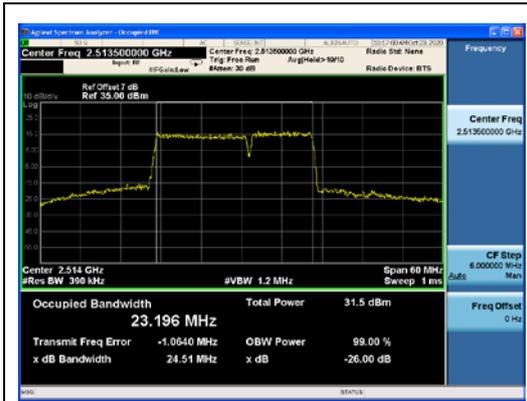


Fig.19



Fig.20

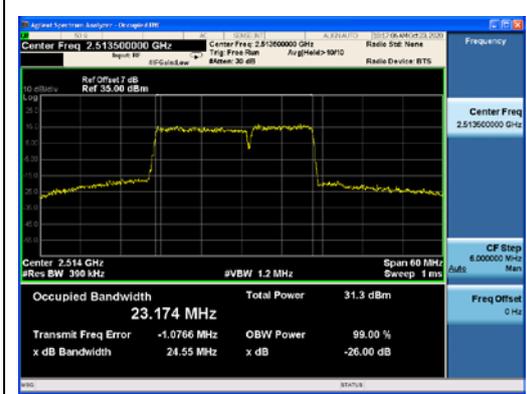


Fig.21

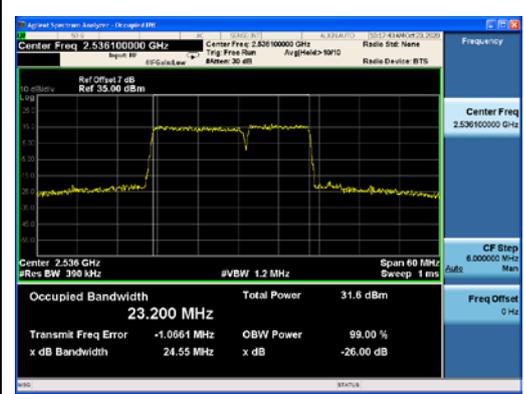


Fig.22

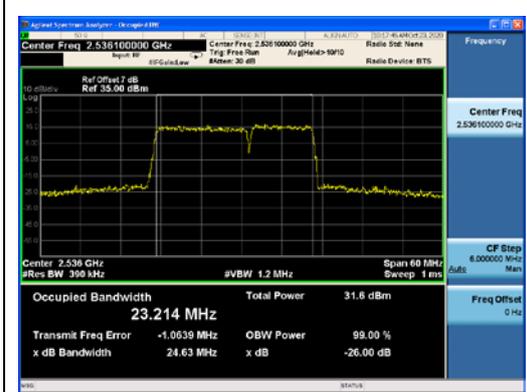


Fig.23

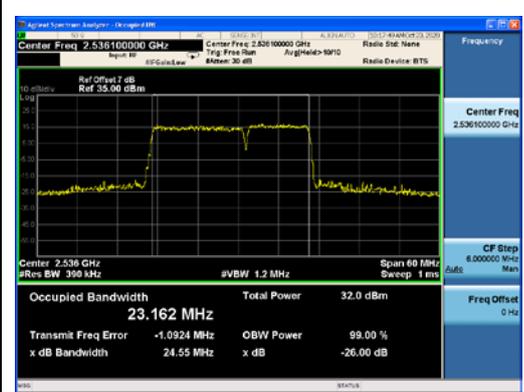


Fig.24

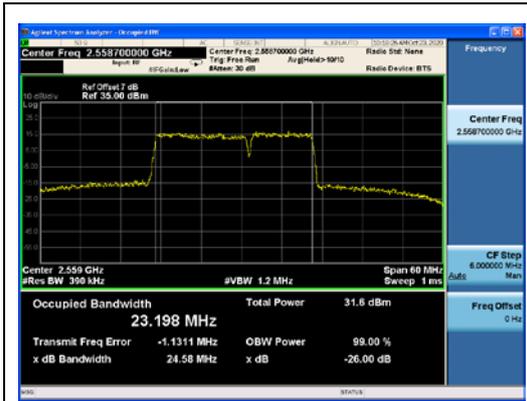


Fig.25



Fig.26

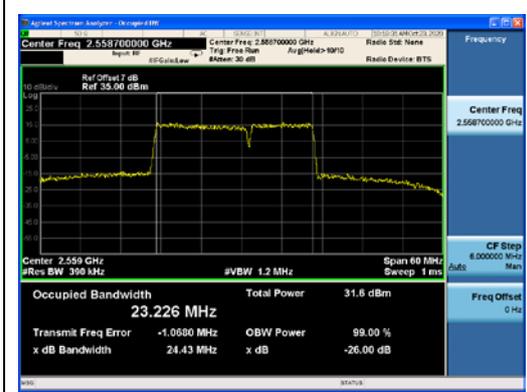


Fig.27

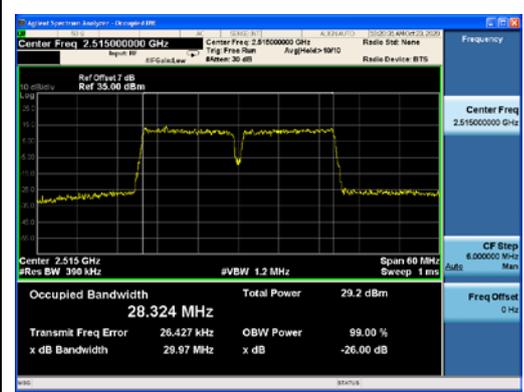


Fig.28

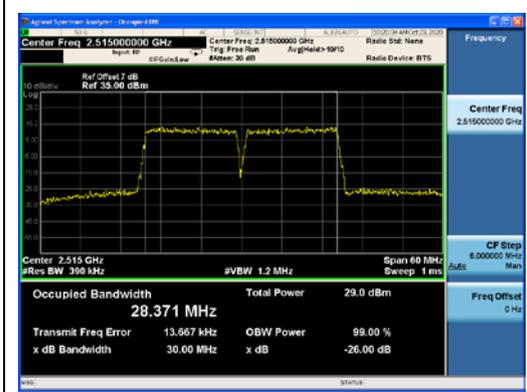


Fig.29

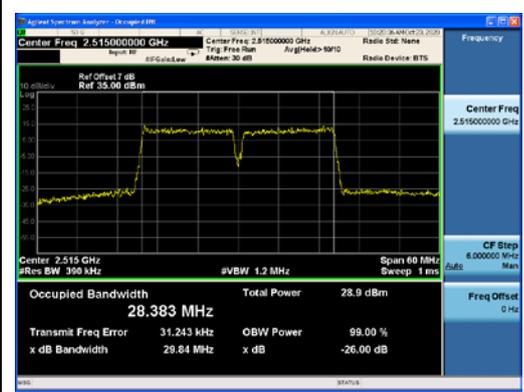


Fig.30

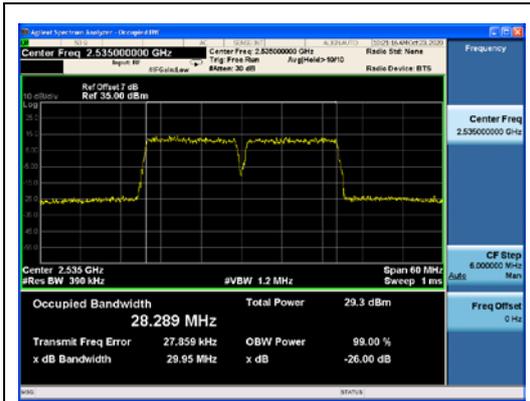


Fig.31



Fig.32

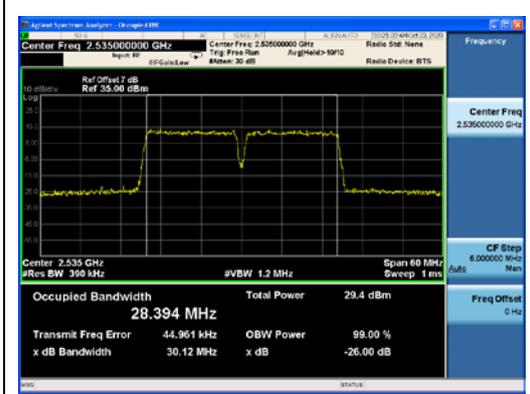


Fig.33

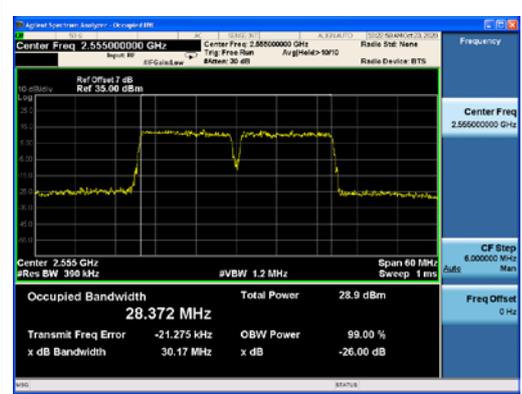


Fig.34

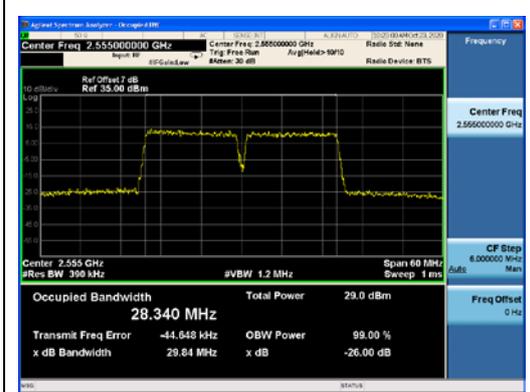


Fig.35

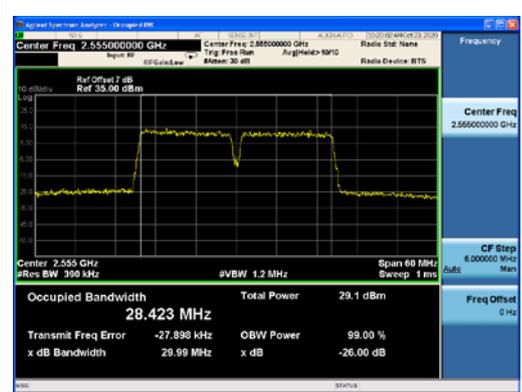


Fig.36



Fig.37

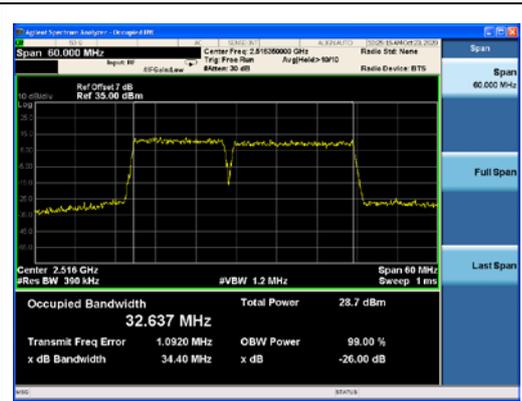


Fig.38

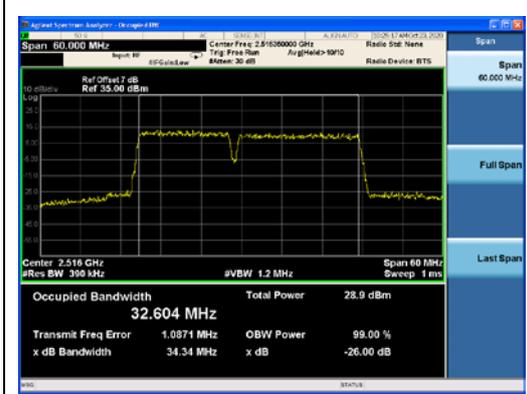


Fig.39



Fig.40

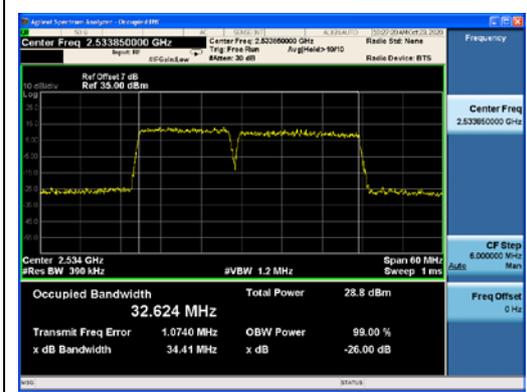


Fig.41



Fig.42

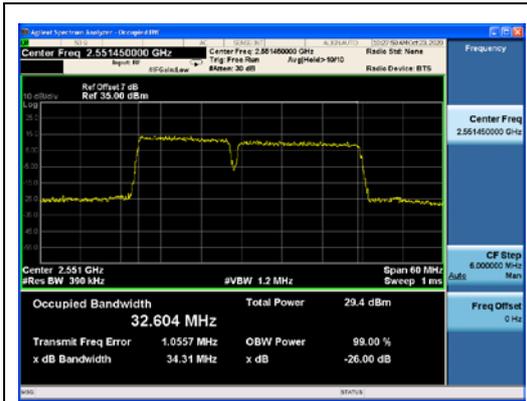


Fig.43

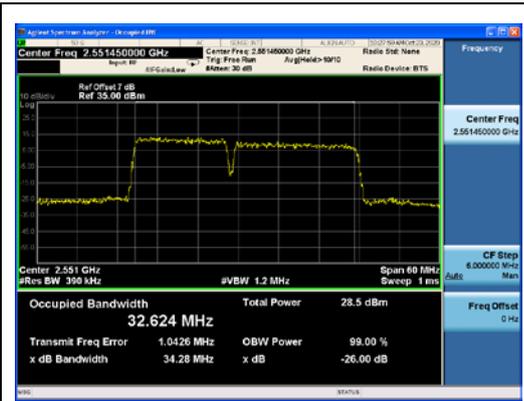


Fig.44

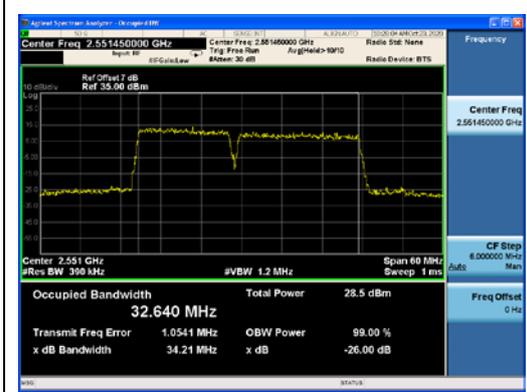


Fig.45

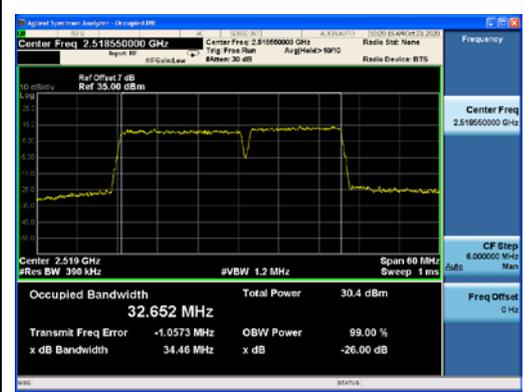


Fig.46

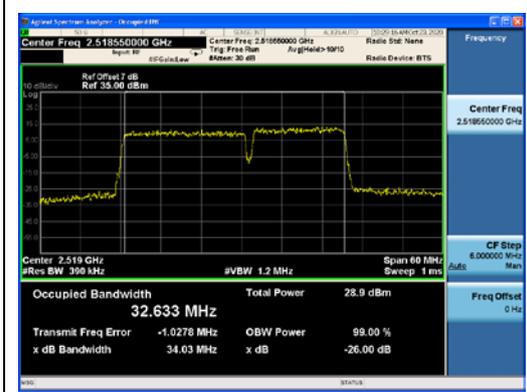


Fig.47

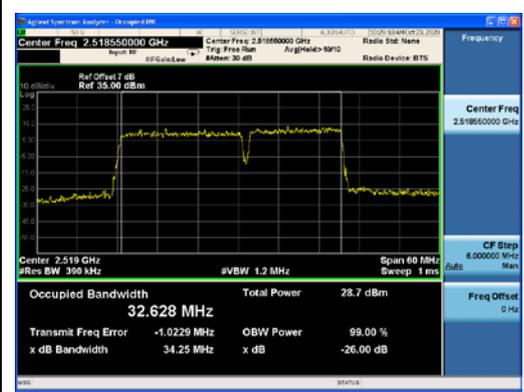


Fig.48

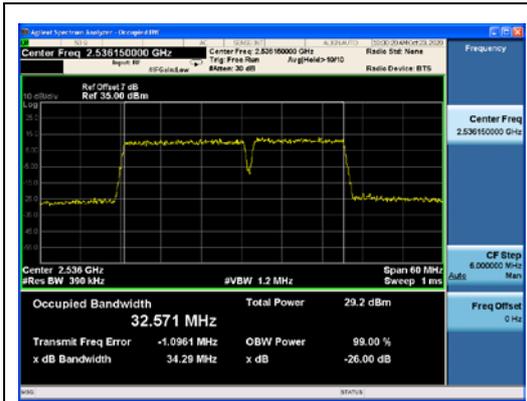


Fig.49



Fig.50

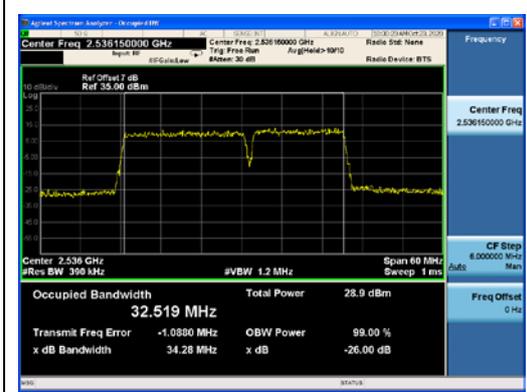


Fig.51

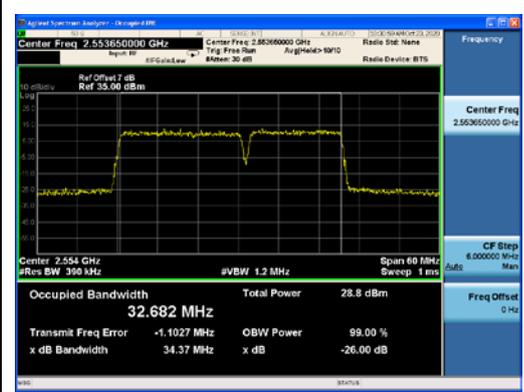


Fig.52



Fig.53

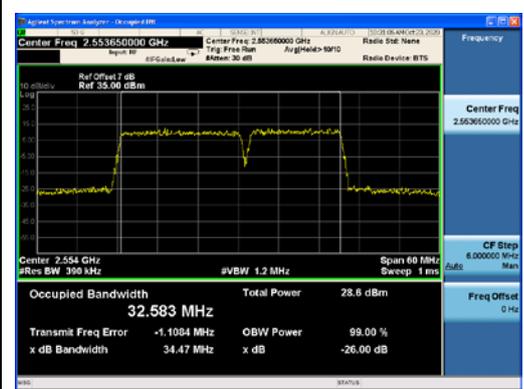


Fig.54



Fig.55

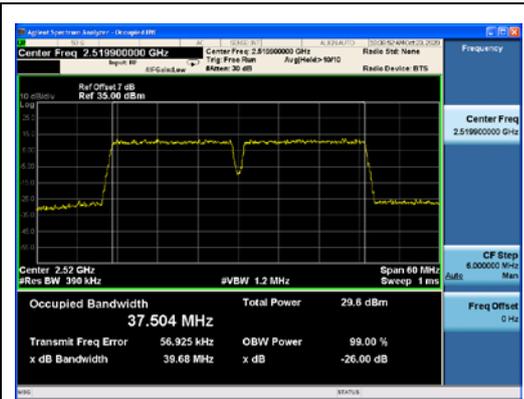


Fig.56

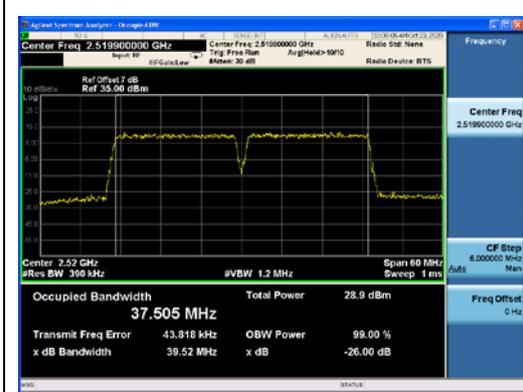


Fig.57

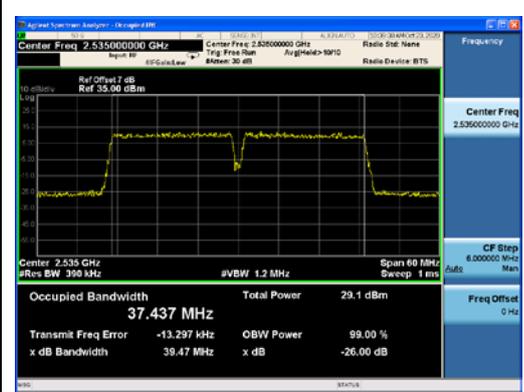


Fig.58

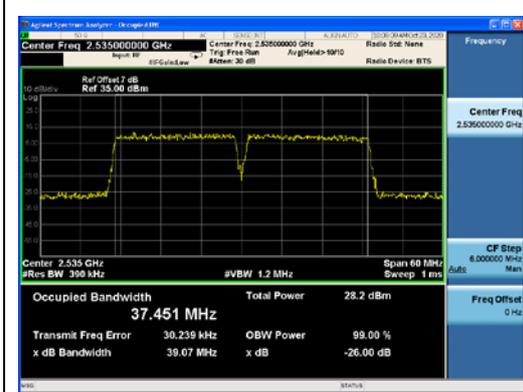


Fig.59

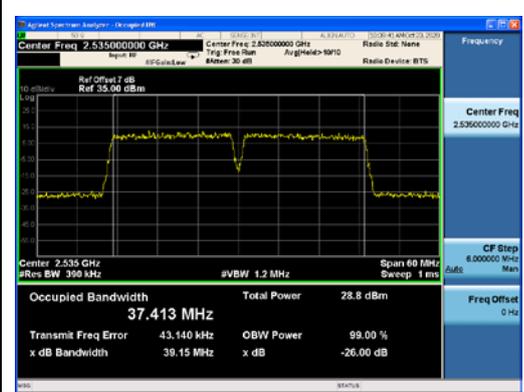


Fig.60

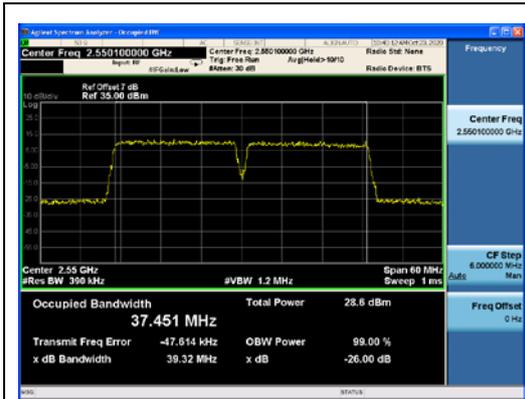


Fig.61

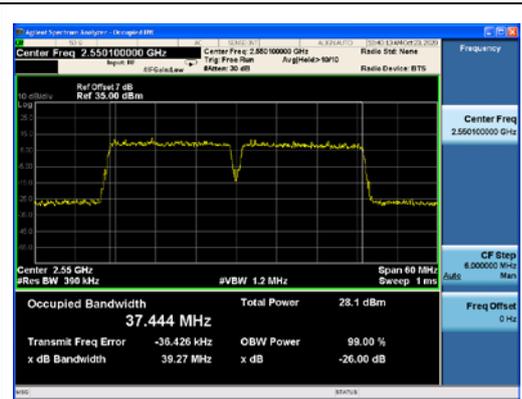


Fig.62

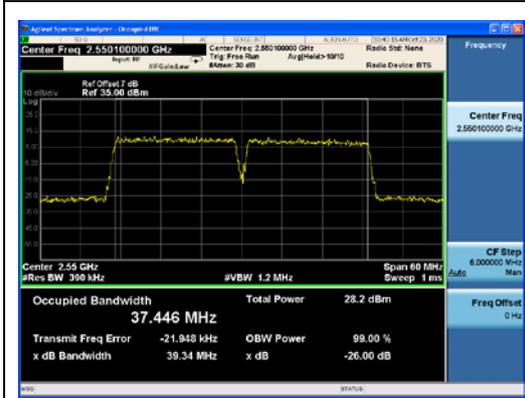


Fig.63

3Spurious Emissions at antenna terminal

Bandwidth	PCC	SCC	Modulation	PCC	PCC	SCC1	SCC1	Plot
	Frequency (MHz)	Frequency (MHz)		RB	RB	RB	RB	
				Size	Offset	Size	Offset	
20MHz/ 20MHz	2510	2529.8	QPSK	1	99	1	0	Fig.1-2
	2525.1	2544.9	QPSK	1	99	1	0	Fig.3-4
	2540.2	2560	QPSK	1	99	1	0	Fig.4-5

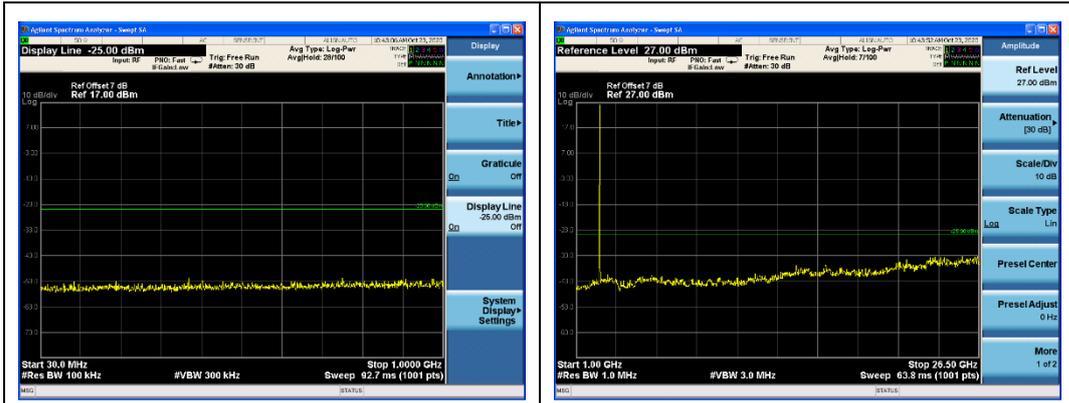


Fig.1

Fig.2

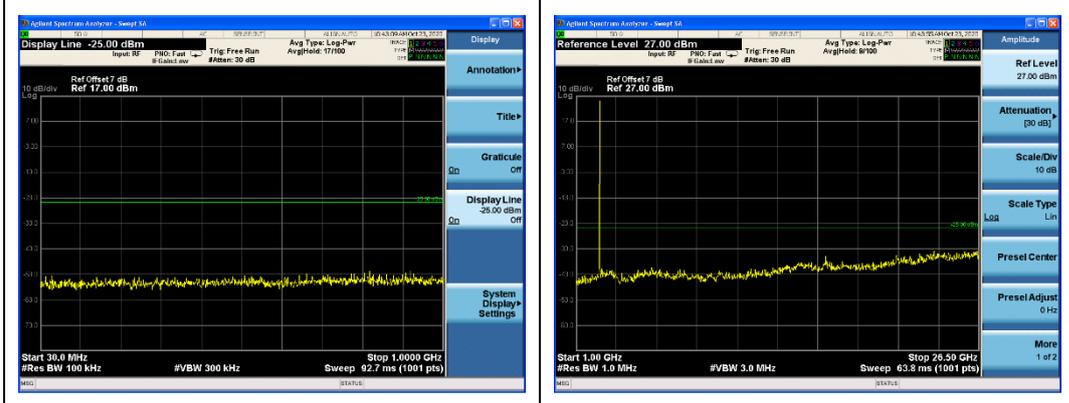


Fig.3

Fig.4

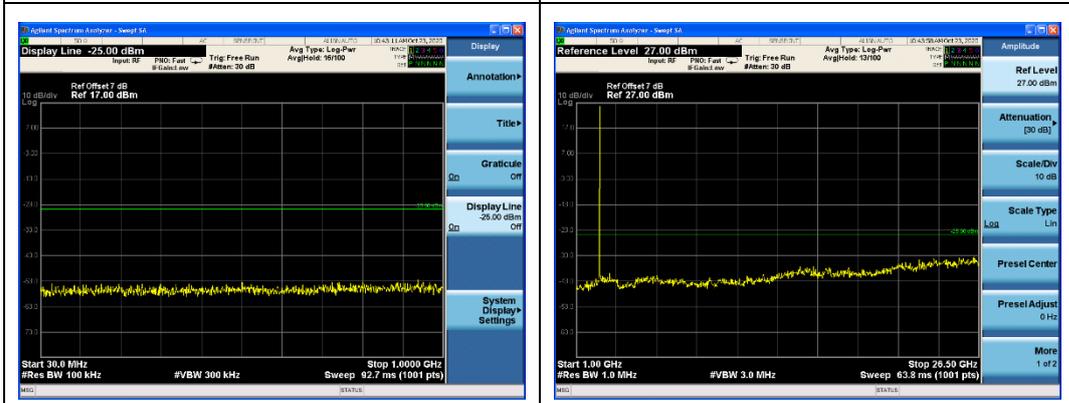


Fig.5

Fig.6

4Band Edges Compliance

Bandwidth	PCC Frequency (MHz)	SCC Frequency (MHz)	Modulation	PCC	PCC	SCC1	SCC1	Plot
				RB Size	RB Offset	RB Size	RB Offset	
10MHz/ 20MHz	2505.5	2519.9	QPSK	1	0	1	0	Fig.1
			QPSK	50	0	100	0	Fig.2
	2545.6	2560	QPSK	1	49	1	99	Fig.3
			QPSK	50	0	100	0	Fig.4
20MHz/ 10MHz	2510	2524.4	QPSK	1	0	1	0	Fig.5
			QPSK	100	0	50	0	Fig.6
	2550.1	2564.5	QPSK	1	99	1	49	Fig.7
			QPSK	100	0	50	0	Fig.8
15MHz/ 10MHz	2507.5	2519.5	QPSK	1	0	1	0	Fig.9
			QPSK	75	0	50	0	Fig.10
	2552.7	2564.7	QPSK	1	74	1	49	Fig.11
			QPSK	75	0	50	0	Fig.12
15MHz/ 15MHz	2507.5	2522.5	QPSK	1	0	1	0	Fig.13
			QPSK	75	0	75	0	Fig.14
	2547.5	2562.5	QPSK	1	74	1	74	Fig.15
			QPSK	75	0	75	0	Fig.16
15MHz/ 20MHz	2507.8	2524.9	QPSK	1	0	1	0	Fig.17
			QPSK	75	0	100	0	Fig.18
	2542.9	2560	QPSK	1	74	1	99	Fig.19
			QPSK	75	0	100	0	Fig.20
20MHz/ 15MHz	2510	2527.1	QPSK	1	0	1	0	Fig.21
			QPSK	100	0	75	0	Fig.22
	2545.1	2562.2	QPSK	1	99	1	74	Fig.23
			QPSK	100	0	75	0	Fig.24
20MHz/ 20MHz	2510	2529.8	QPSK	1	0	1	0	Fig.25
			QPSK	100	0	100	0	Fig.26
	2540.2	2560	QPSK	1	99	1	99	Fig.27
			QPSK	100	0	100	0	Fig.28

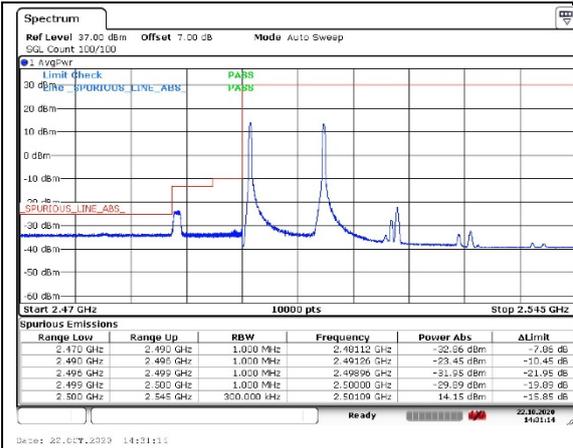


Fig.1

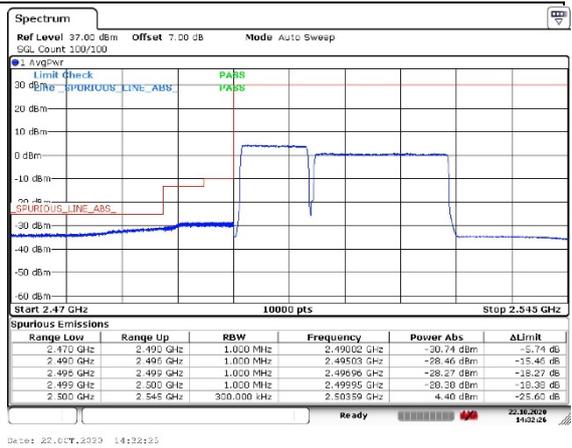


Fig.2

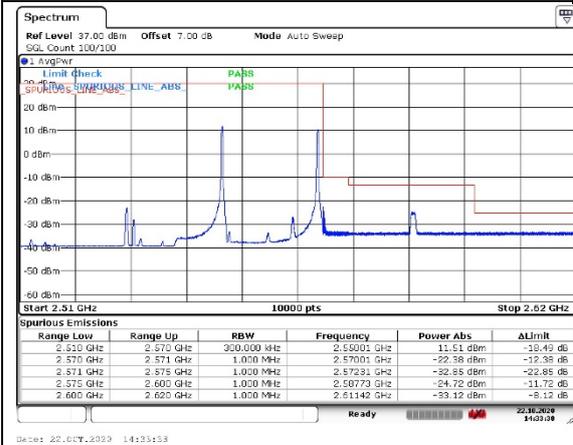


Fig.3

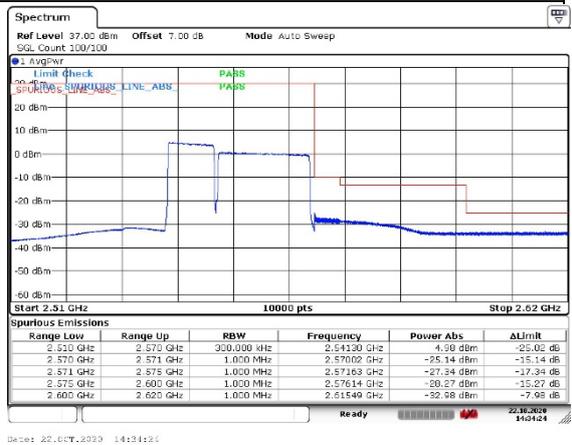


Fig.4

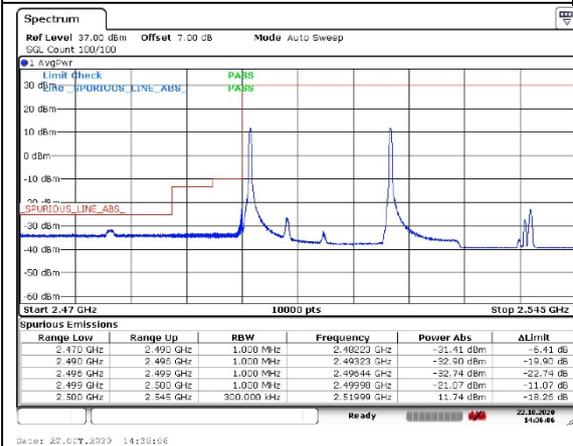


Fig.5

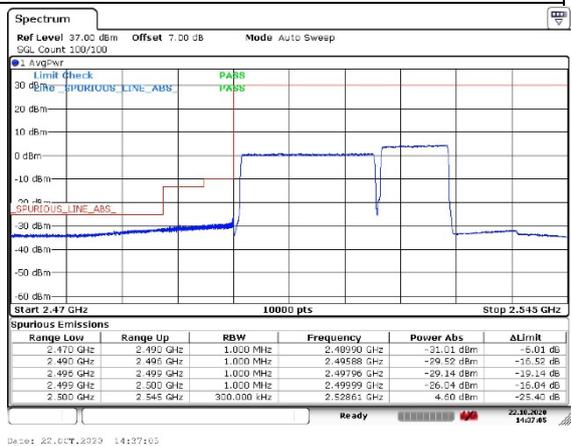


Fig.6

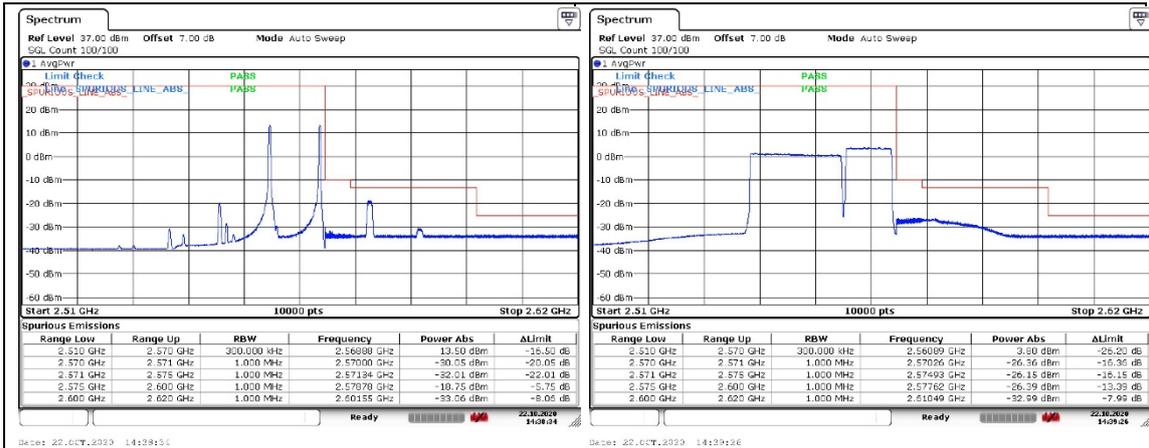


Fig.7

Fig.8

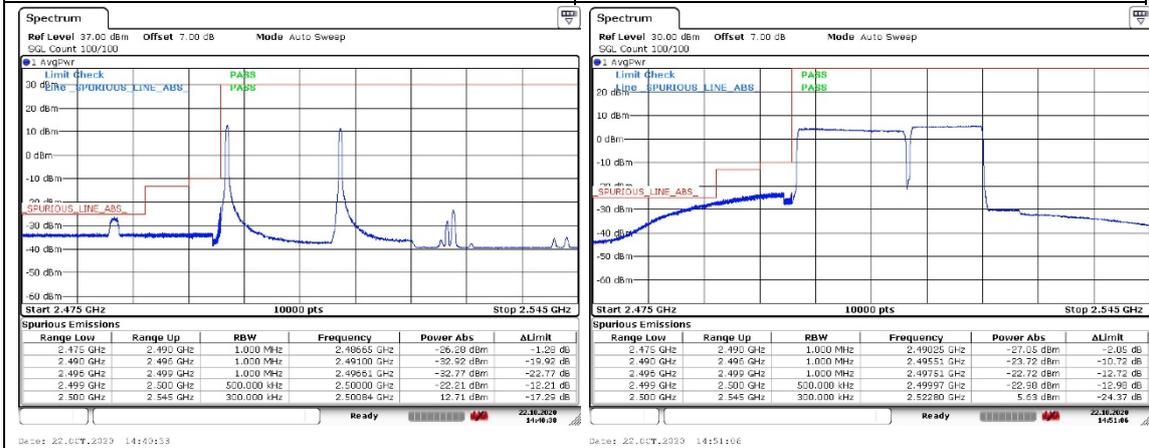


Fig.9

Fig.10

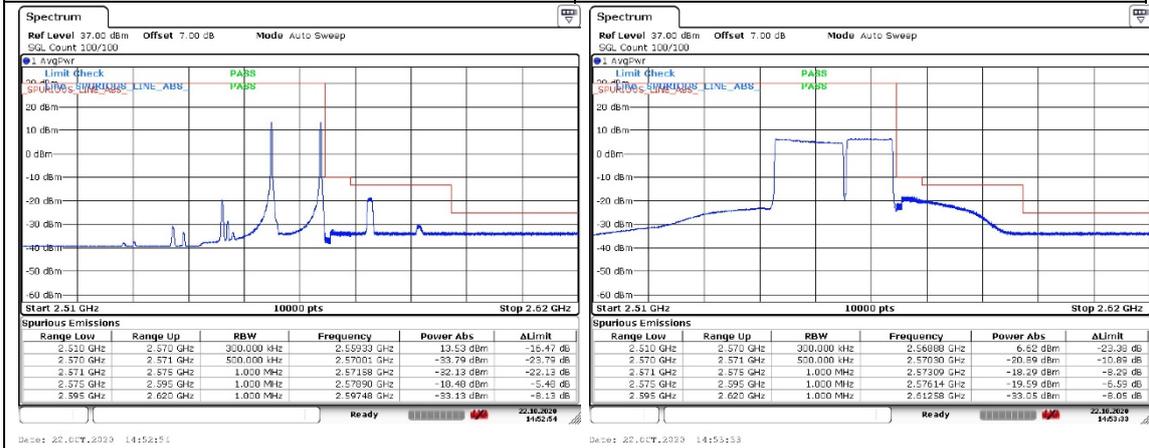


Fig.11

Fig.12