

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 7

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	21.8
				1	12	21.8
				1	24	21.8
				12	0	21.0
				12	7	20.9
				12	13	21.0
				25	0	20.9
	2535	21100		1	0	22.3
				1	12	22.3
				1	24	22.4
				12	0	21.1
				12	7	21.2
				12	13	21.2
				25	0	21.2
	2567.5	21425		1	0	22.1
				1	12	22.1
				1	24	21.9
				12	0	21.2
				12	7	21.2
				12	13	21.2
				25	0	21.1
16QAM	2502.5	20775	1	0	20.8	
			1	12	20.7	
			1	24	20.7	
			12	0	20.0	
			12	7	20.0	
			12	13	20.0	
			25	0	20.1	
	2535	21100	1	0	21.5	

				1	12	21.6
				1	24	21.6
				12	0	20.2
				12	7	20.3
				12	13	20.3
				25	0	20.2
				1	0	20.9
				1	12	20.9
				1	24	20.9
	2567.5	21425		12	0	20.2
	2567.5	21425		12	7	20.1
	2567.5	21425		12	13	20.1
	2567.5	21425		25	0	20.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2502.5	20775	5	1	0	20.0
				1	12	20.0
				1	24	20.1
				12	0	20.1
				12	7	20.1
				12	13	20.1
				25	0	20.1
	2535	21100		1	0	20.2
				1	12	20.2
				1	24	20.2
				12	0	20.2
				12	7	20.3
				12	13	20.3
				25	0	20.3
	2567.5	21425		1	0	20.2
				1	12	20.2
				1	24	20.3
				12	0	20.3
				12	7	20.2
				12	13	20.2
				25	0	20.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	21.9
				1	25	21.7
				1	49	21.7
				25	0	20.8
				25	12	20.8
				25	25	20.8
				50	0	20.8
	2535	21100		1	0	22.1
				1	25	22.2
				1	49	22.2
				25	0	21.1
				25	12	21.2
				25	25	21.2
				50	0	21.2
	2565	21400		1	0	22.2
				1	25	22.2
				1	49	22.1
				25	0	21.2
				25	12	21.1
				25	25	21.1
				50	0	21.1
16QAM	2505	20800	1	0	21.2	
			1	25	21.2	
			1	49	21.2	
			25	0	19.9	
			25	12	19.9	
			25	25	19.9	
			50	0	19.9	
	2535	21100	1	0	21.4	
			1	25	21.6	
			1	49	21.6	

			25	0	20.2	
			25	12	20.3	
			25	25	20.3	
			50	0	20.3	
	2565	21400		1	0	21.2
				1	25	21.2
				1	49	21.2
				25	0	20.3
				25	12	20.3
				25	25	20.3
				50	0	20.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2505	20800	10	1	0	19.9
				1	25	19.9
				1	49	19.9
				25	0	19.9
				25	12	19.9
				25	25	19.9
				50	0	19.9
	2535	21100		1	0	20.3
				1	25	20.3
				1	49	20.3
				25	0	20.3
				25	12	20.3
				25	25	20.3
				50	0	20.3
	2565	21400		1	0	20.2
				1	25	20.2
				1	49	20.2
				25	0	20.2
				25	12	20.2
				25	25	20.2
				50	0	20.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	21.7
				1	37	21.7
				1	74	21.7
				36	0	20.9
				36	29	20.9
				36	30	20.9
				75	0	20.8
	2535	21100		1	0	22.0
				1	37	22.3
				1	74	22.3
				36	0	21.1
				36	29	21.3
				36	30	21.3
				75	0	21.3
	2562.5	21375		1	0	22.2
				1	37	22.2
				1	74	22.1
				36	0	21.2
				36	29	21.2
				36	30	21.2
				75	0	21.2
16QAM	2507.5	20825	1	0	21.1	
			1	37	21.2	
			1	74	21.2	
			36	0	20.0	
			36	29	19.9	
			36	30	19.9	
			75	0	19.9	
	2535	21100	1	0	21.4	
			1	37	21.7	
			1	74	21.7	

			36	0	20.2	
			36	29	20.4	
			36	30	20.3	
			75	0	20.3	
	2562.5	21375		1	0	21.6
				1	37	21.5
				1	74	21.6
				36	0	20.3
				36	29	20.3
				36	30	20.2
				75	0	20.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2507.5	20825	15	1	0	19.9
				1	37	19.9
				1	74	19.9
				36	0	19.9
				36	29	19.9
				36	30	19.9
				75	0	19.9
	2535	21100		1	0	20.3
				1	37	20.3
				1	74	20.3
				36	0	20.3
				36	29	20.3
				36	30	20.3
				75	0	20.3
	2562.5	21375		1	0	20.2
				1	37	20.2
				1	74	20.2
				36	0	20.2
				36	29	20.2
				36	30	20.2
				75	0	20.2

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2510	20850	20	1	0	21.9	
				1	49	22.0	
				1	99	22.0	
				50	0	20.7	
				50	24	20.8	
				50	50	20.8	
				100	0	20.7	
	2535	21100		1	0	22.1	
				1	49	22.4	
				1	99	22.4	
				50	0	21.0	
				50	24	21.2	
				50	50	21.2	
				100	0	21.1	
	2560	21350		1	0	22.2	
				1	49	21.8	
				1	99	21.8	
				50	0	21.3	
				50	24	21.2	
				50	50	21.2	
				100	0	21.3	
	16QAM	2510		20850	1	0	21.1
					1	49	21.3
					1	99	21.3
50			0		19.8		
50			24		19.8		
50			50		19.8		
100			0		19.9		
2535		21100	1	0	21.2		
			1	49	21.5		
			1	99	21.4		

			50	0	20.1	
			50	24	20.3	
			50	50	20.2	
			100	0	20.2	
	2560	21350		1	0	21.9
				1	49	21.8
				1	99	21.8
				50	0	20.4
				50	24	20.3
				50	50	20.3
				100	0	20.4

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2510	20850	20	1	0	19.9
				1	49	19.8
				1	99	19.8
				50	0	19.8
				50	24	19.8
				50	50	19.8
				100	0	19.8
	2535	21100		1	0	20.2
				1	49	20.2
				1	99	20.2
				50	0	20.1
				50	24	20.2
				50	50	20.2
				100	0	20.2
	2560	21350		1	0	20.4
				1	49	20.3
				1	99	20.4
				50	0	20.4
				50	24	20.3
				50	50	20.3
				100	0	20.3

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	
7	2502.5	20775	5	25	0	4.515	Fig.1	4.515	Fig.2	4.515	Fig.3
	2535	21100		25	0	4.515	Fig.4	4.515	Fig.5	4.515	Fig.6
	2567.5	21425		25	0	4.515	Fig.7	4.515	Fig.8	4.537	Fig.9
	2505	20800	10	50	0	9.074	Fig.10	9.030	Fig.11	9.074	Fig.12
	2535	21100		50	0	9.030	Fig.13	9.030	Fig.14	9.030	Fig.15
	2565	21400		50	0	9.030	Fig.16	9.074	Fig.17	9.117	Fig.18
	2507.5	20825	15	75	0	13.546	Fig.19	13.480	Fig.20	13.546	Fig.21
	2535	21100		75	0	13.480	Fig.22	13.480	Fig.23	13.480	Fig.24
	2562.5	21375		75	0	13.546	Fig.25	13.480	Fig.26	13.480	Fig.27
	2510	20850	20	100	0	17.887	Fig.28	17.887	Fig.29	17.887	Fig.30
	2535	21100		100	0	17.887	Fig.31	17.887	Fig.32	17.887	Fig.33
	2560	21350		100	0	17.974	Fig.34	17.887	Fig.35	17.974	Fig.36

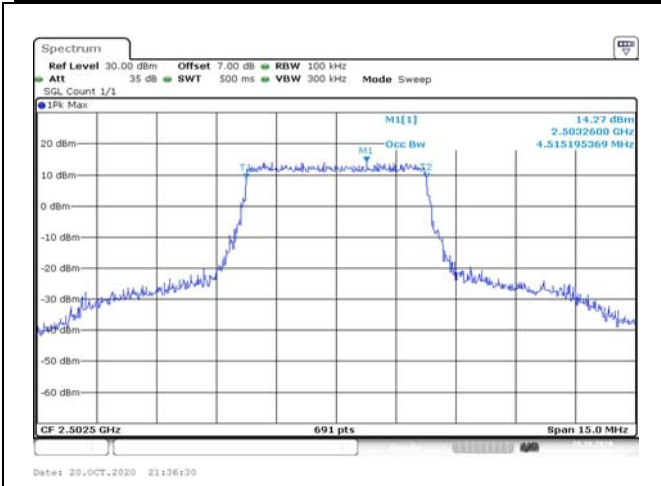


Fig.1

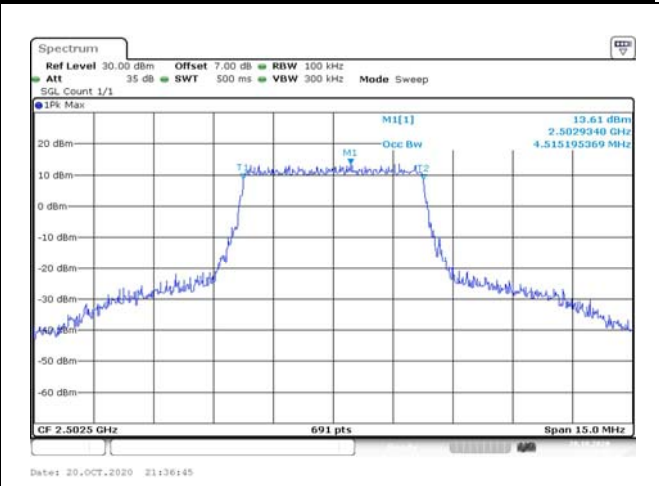


Fig.2

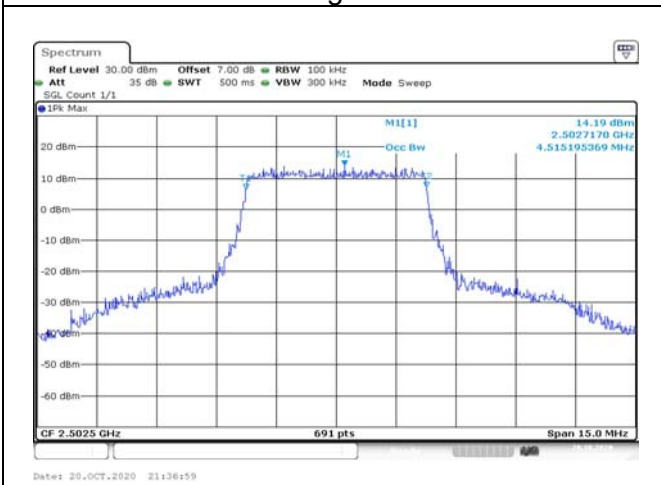


Fig.3

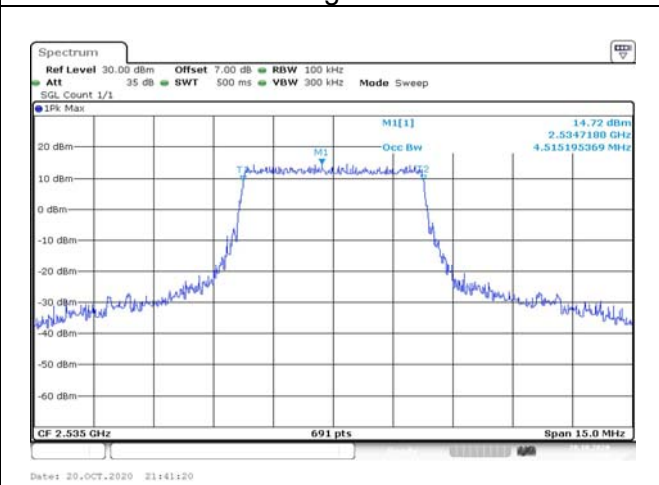


Fig.4

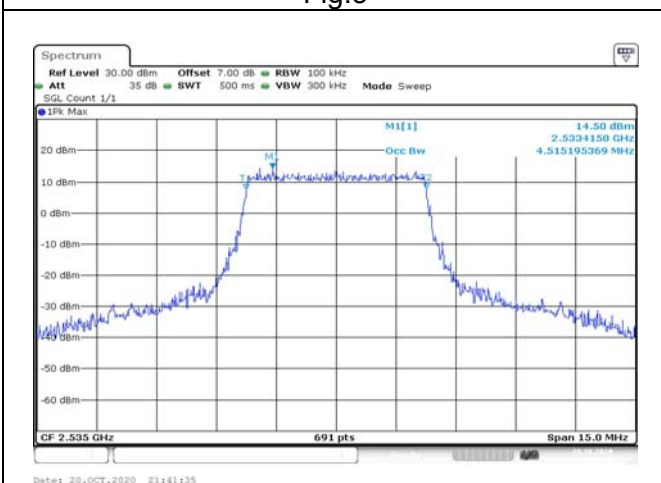


Fig.5

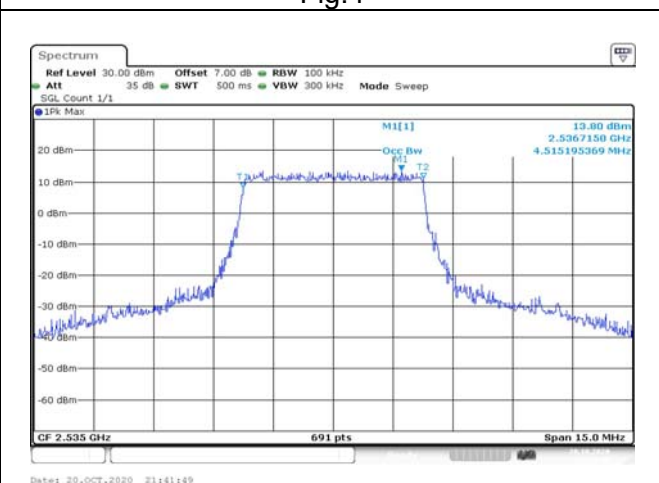


Fig.6

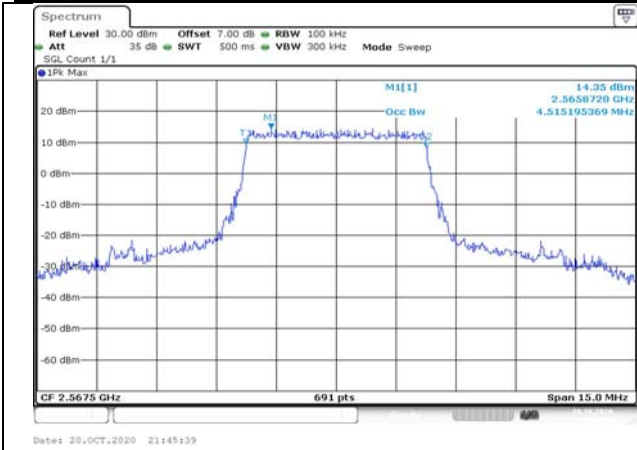


Fig.7



Fig.8

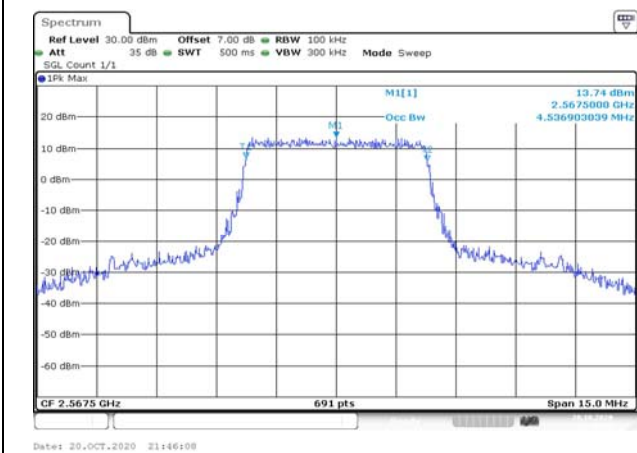


Fig.9

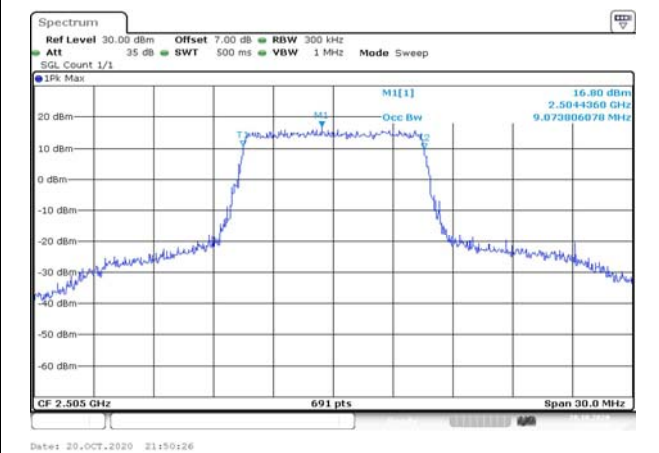


Fig.10

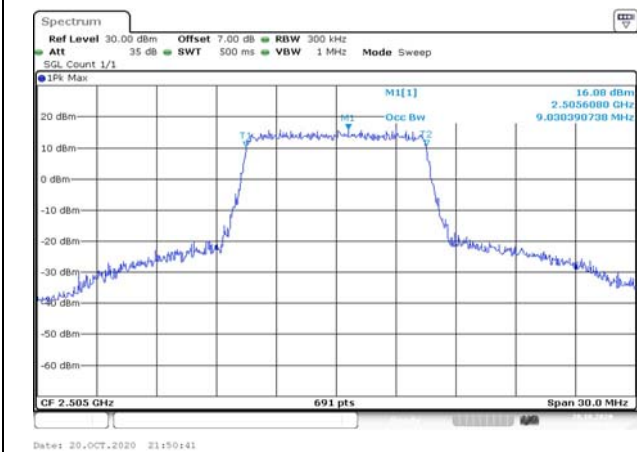


Fig.11

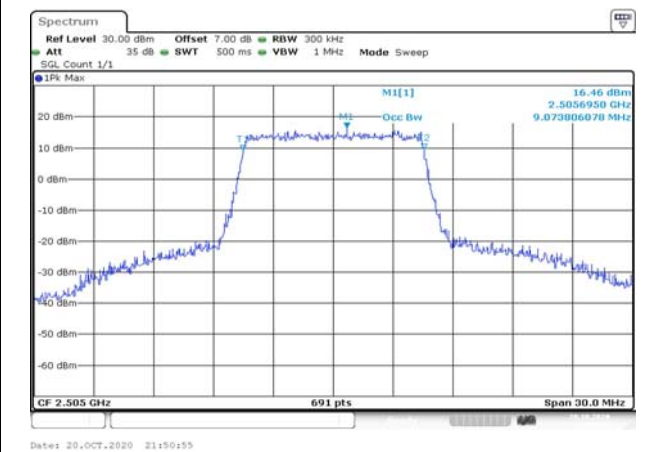


Fig.12

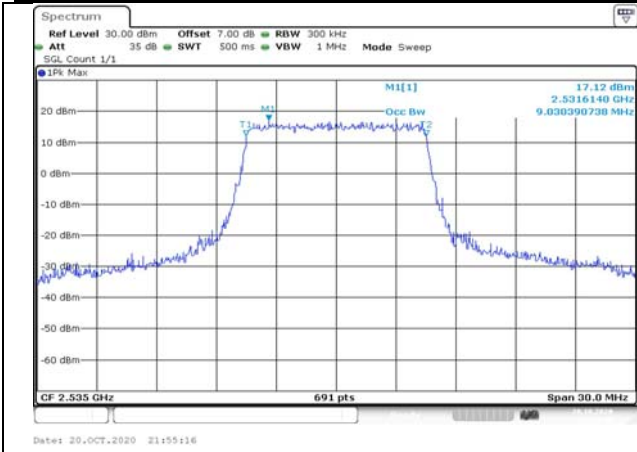


Fig. 13



Fig. 14

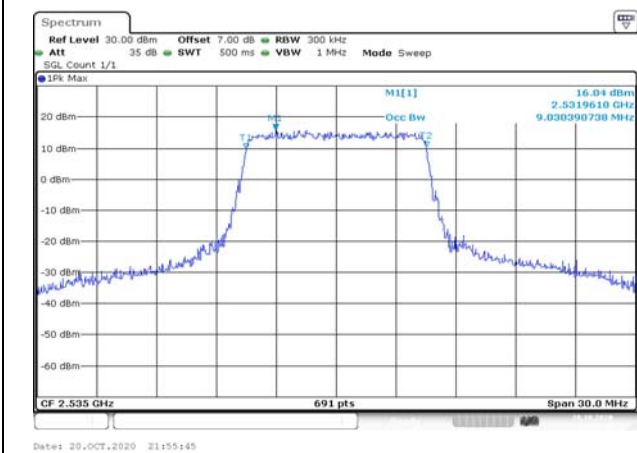


Fig. 15

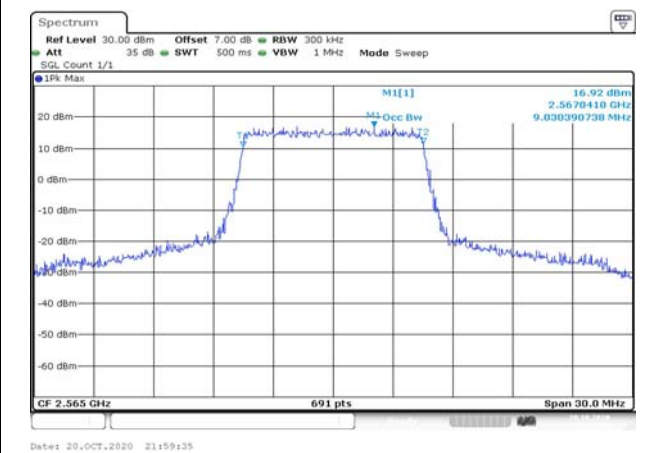


Fig. 16

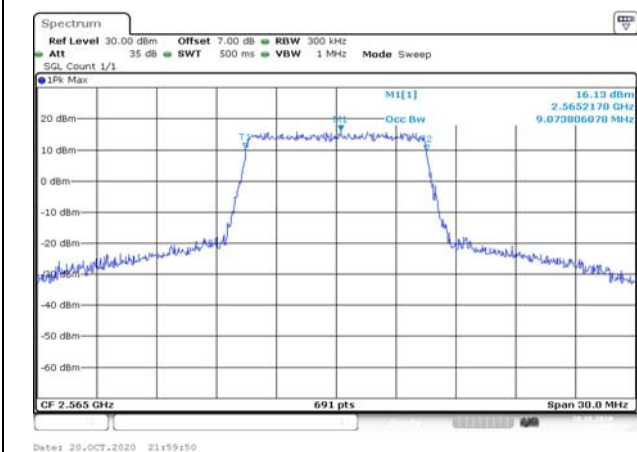


Fig. 17

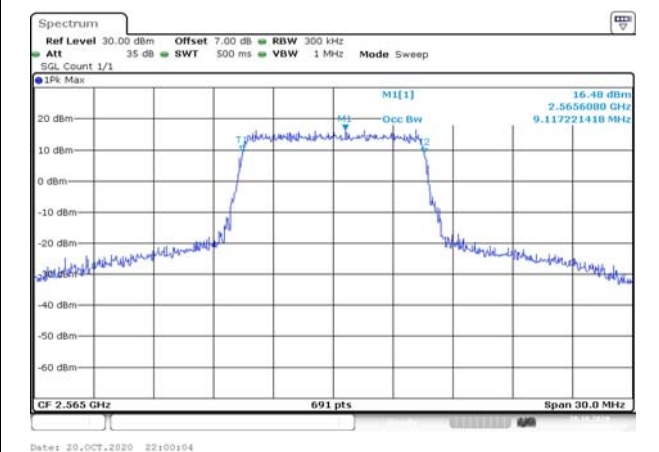


Fig. 18

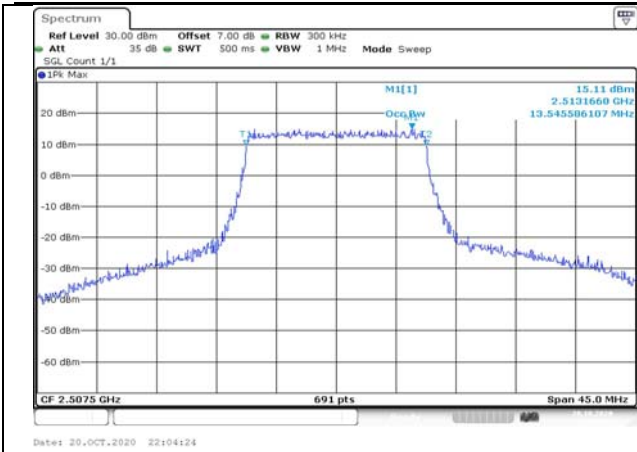


Fig.19

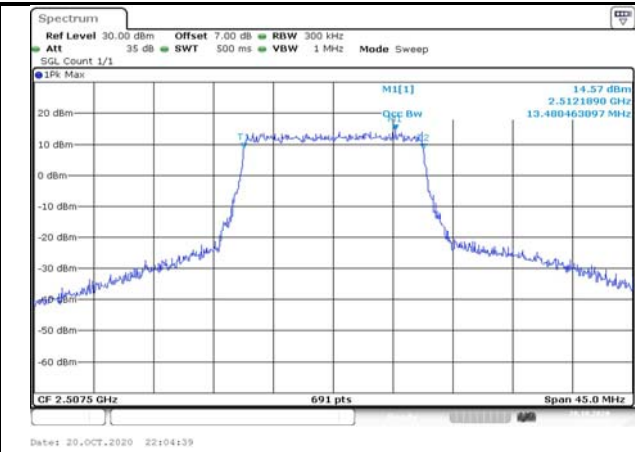


Fig.20

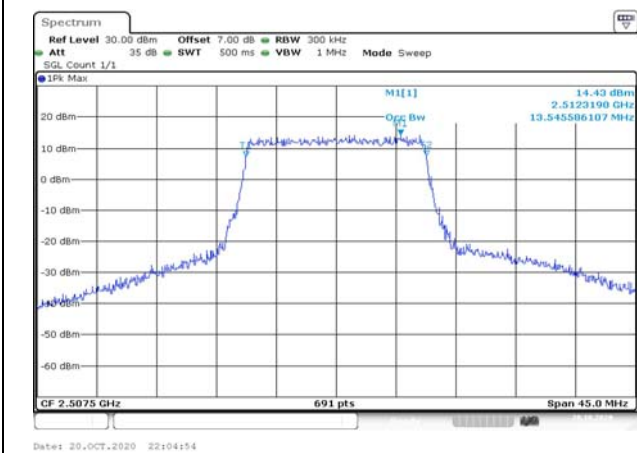


Fig.21

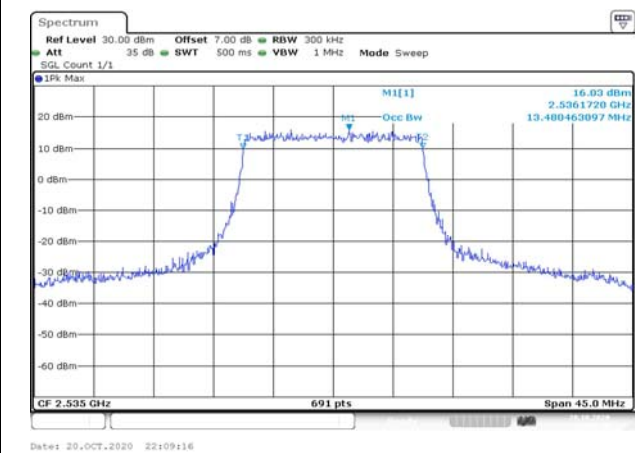


Fig.22

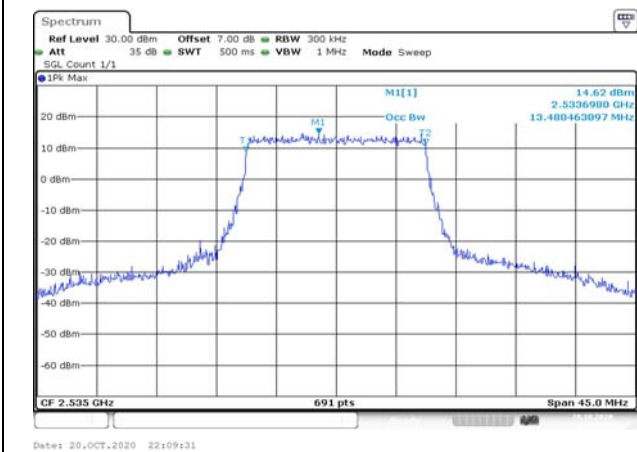


Fig.23

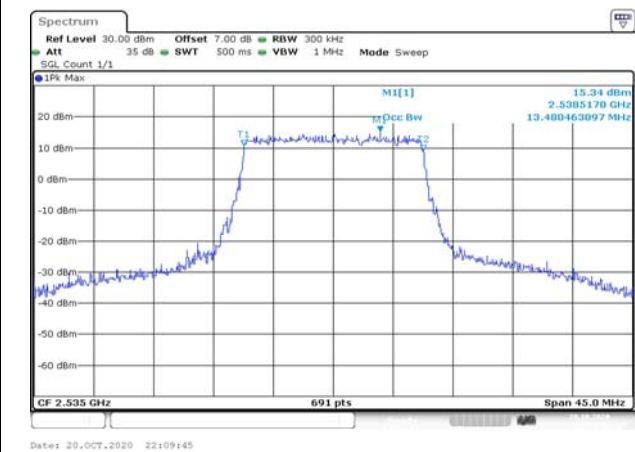


Fig.24

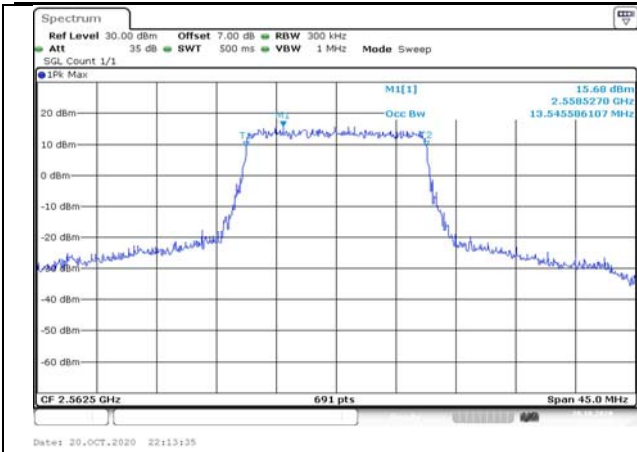


Fig.25

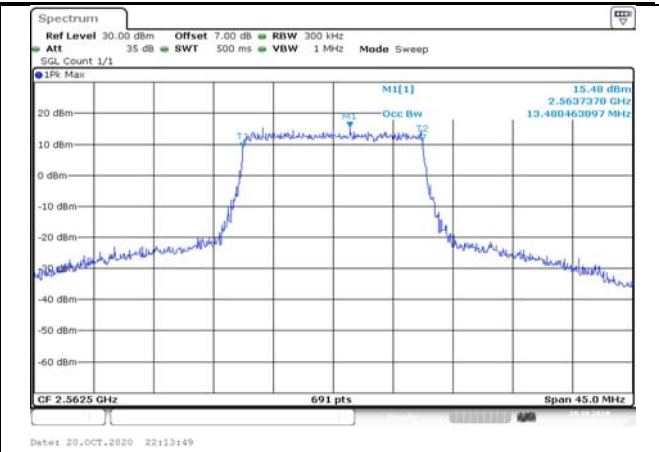


Fig.26

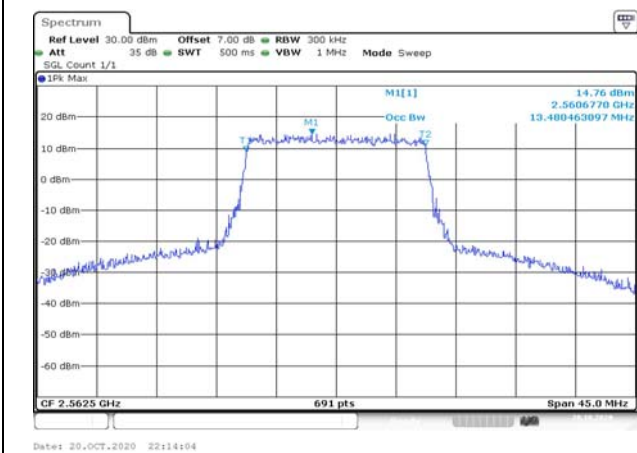


Fig.27

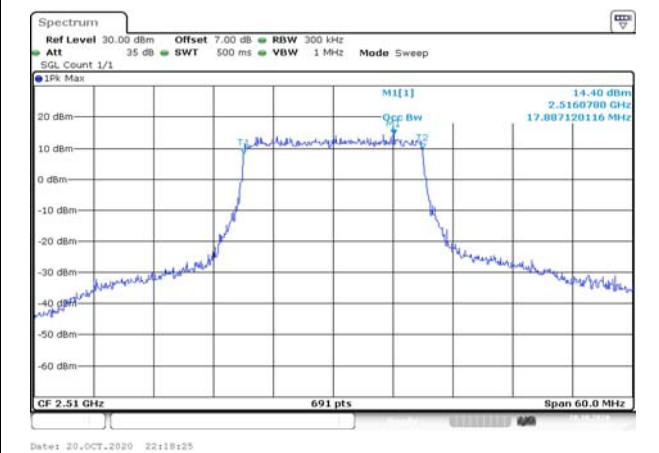


Fig.28

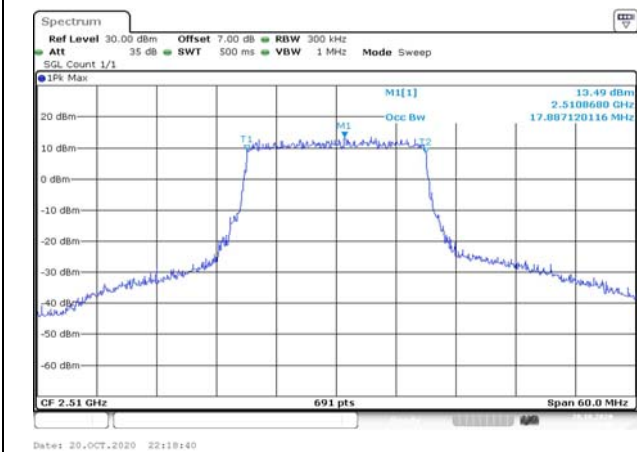


Fig.29

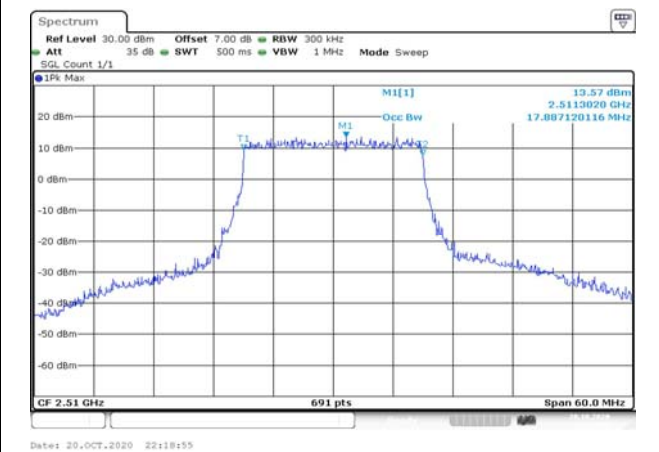


Fig.30

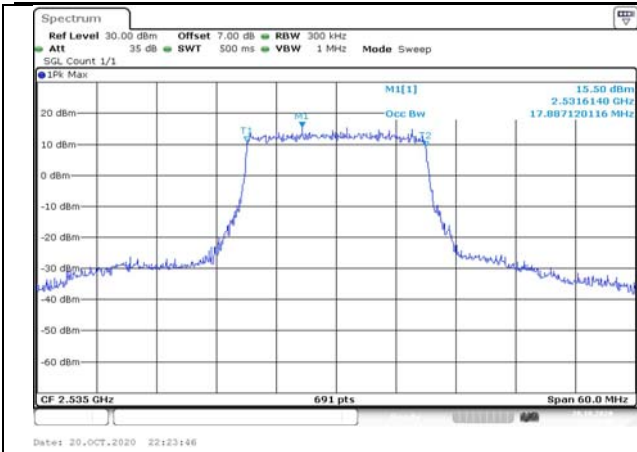


Fig.31



Fig.32

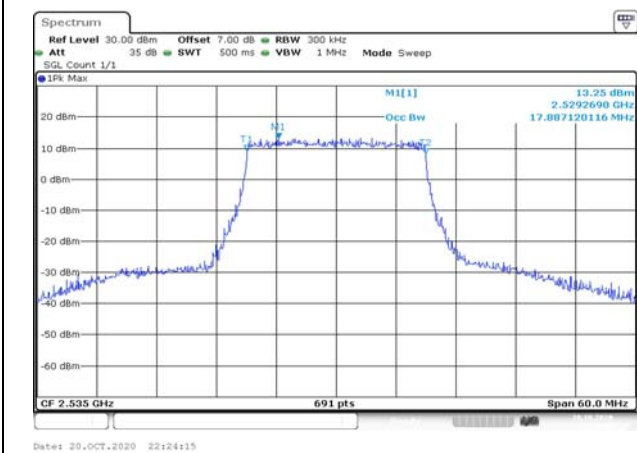


Fig.33

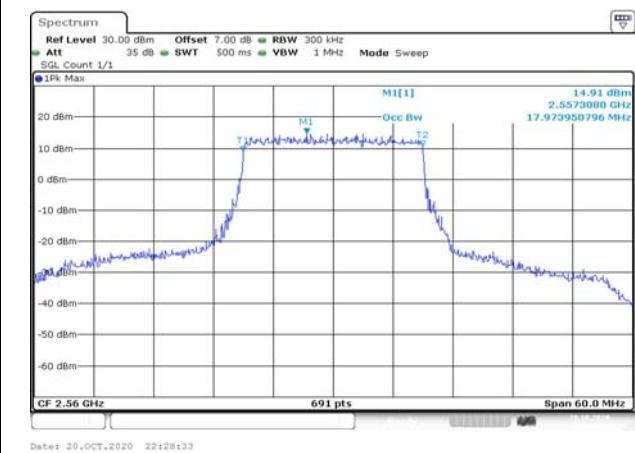


Fig.34

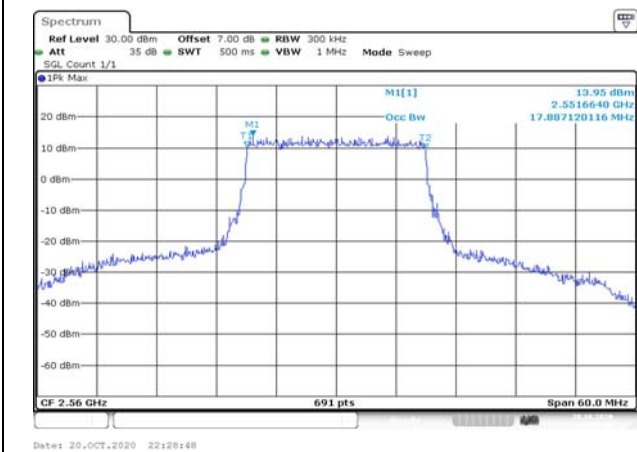


Fig.35

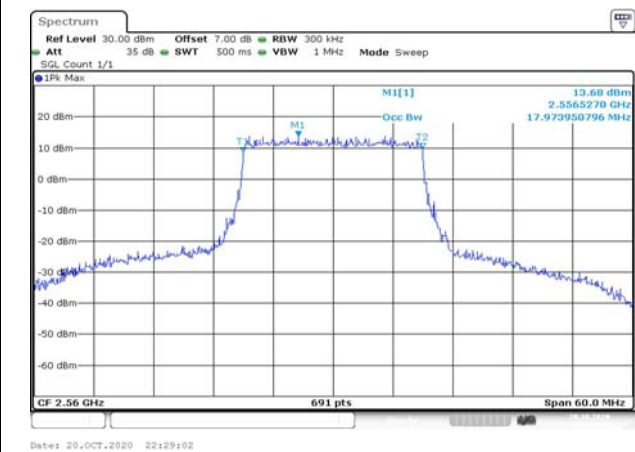


Fig.36

3 Emission Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	5.166	Fig.1	5.101	Fig.2	5.123	Fig.3
	2535	21100		25	0	5.123	Fig.4	5.188	Fig.5	5.145	Fig.6
	2567.5	21425		25	0	5.058	Fig.7	5.058	Fig.8	5.014	Fig.9
	2505	20800	10	50	0	10.333	Fig.10	10.376	Fig.11	10.333	Fig.12
	2535	21100		50	0	10.376	Fig.13	10.159	Fig.14	10.333	Fig.15
	2565	21400		50	0	10.203	Fig.16	10.116	Fig.17	10.333	Fig.18
	2507.5	20825	15	75	0	15.369	Fig.19	15.369	Fig.20	15.109	Fig.21
	2535	21100		75	0	15.239	Fig.22	15.499	Fig.23	15.434	Fig.24
	2562.5	21375		75	0	14.978	Fig.25	15.369	Fig.26	15.304	Fig.27
	2510	20850	20	100	0	19.884	Fig.28	20.145	Fig.29	19.971	Fig.30
	2535	21100		100	0	19.971	Fig.31	20.058	Fig.32	20.058	Fig.33
	2560	21350		100	0	20.405	Fig.34	19.884	Fig.35	19.971	Fig.36

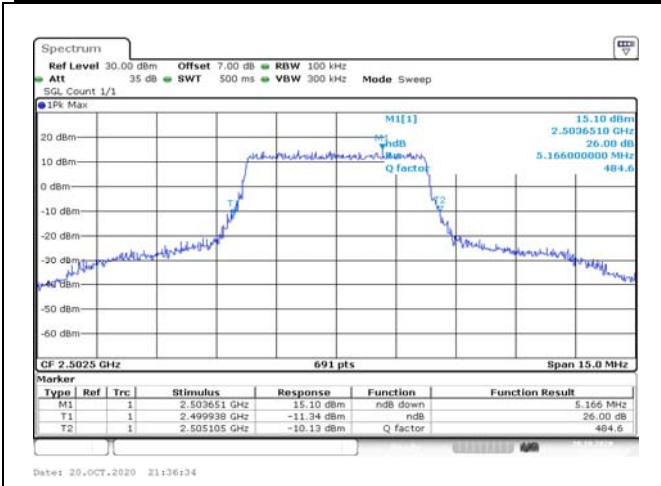


Fig.1

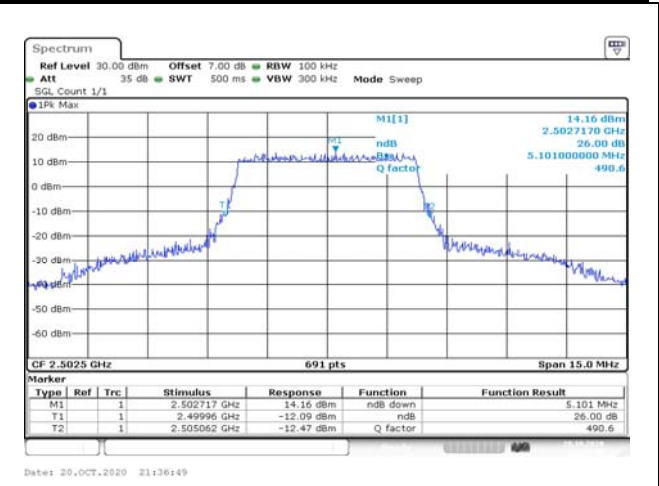


Fig.2

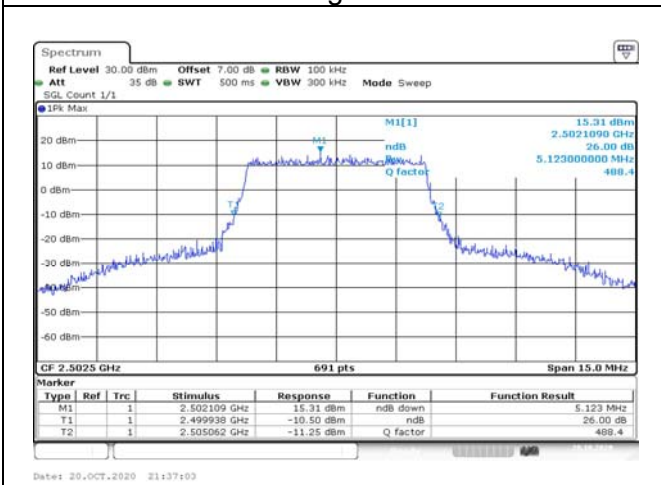


Fig.3

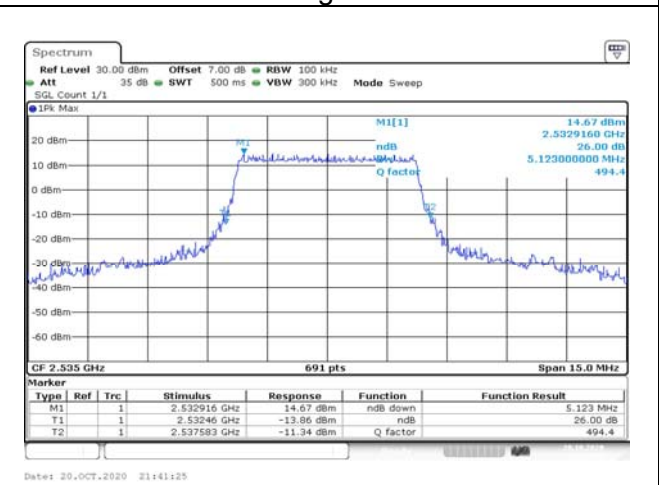


Fig.4

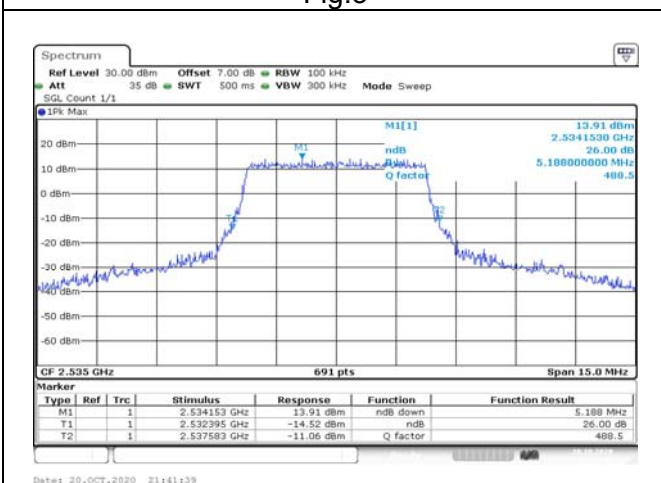


Fig.5

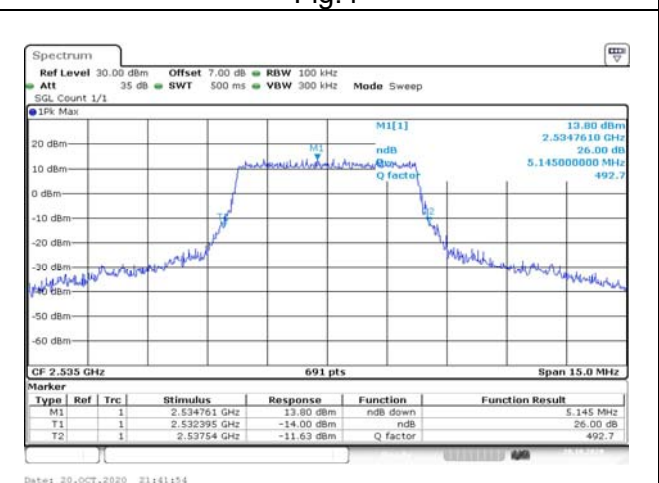


Fig.6

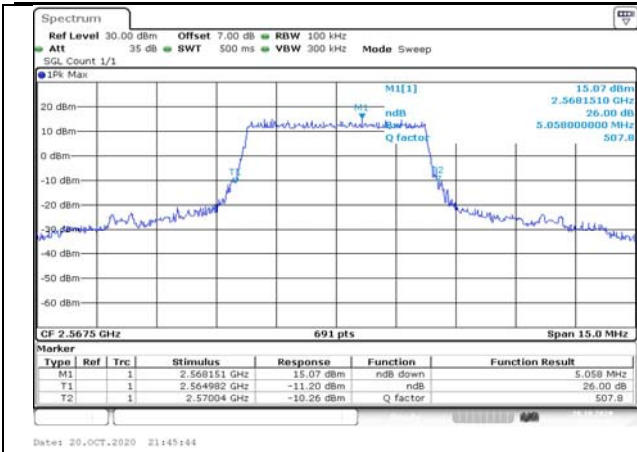


Fig.7

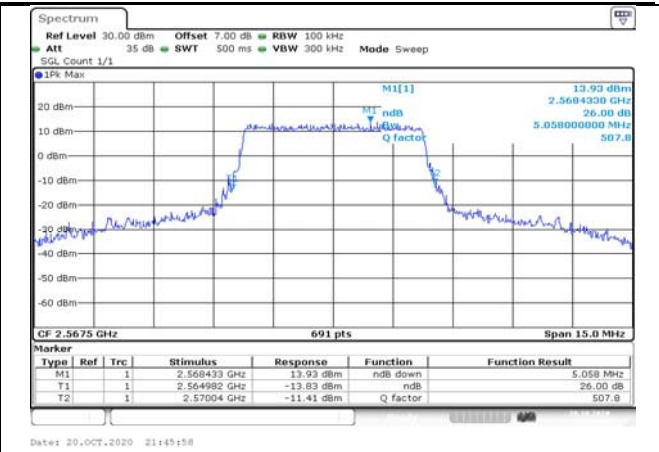


Fig.8

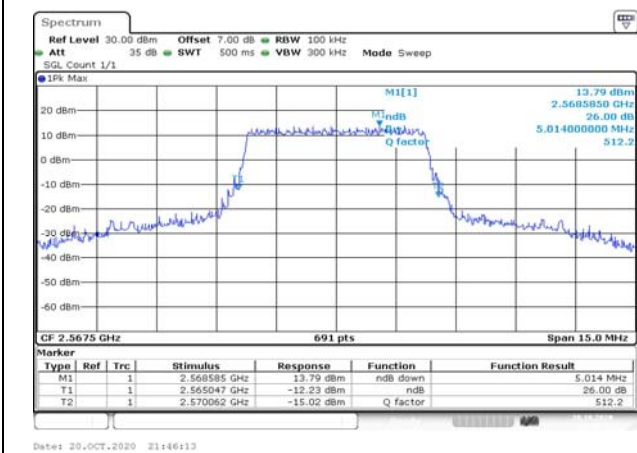


Fig.9

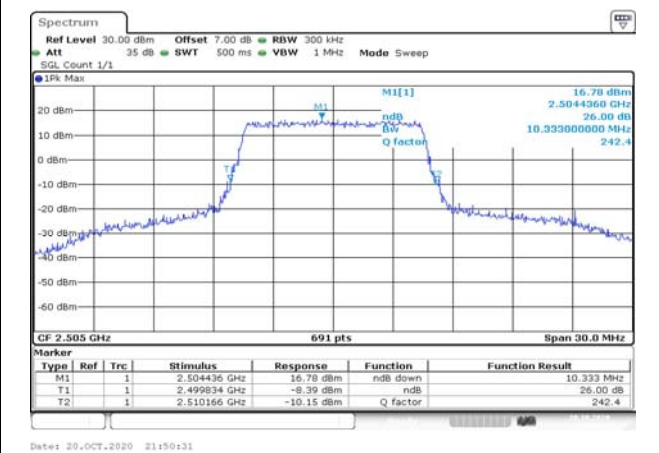


Fig.10

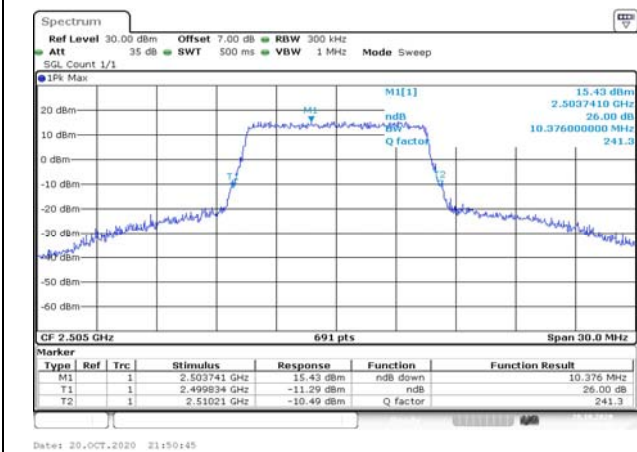


Fig.11

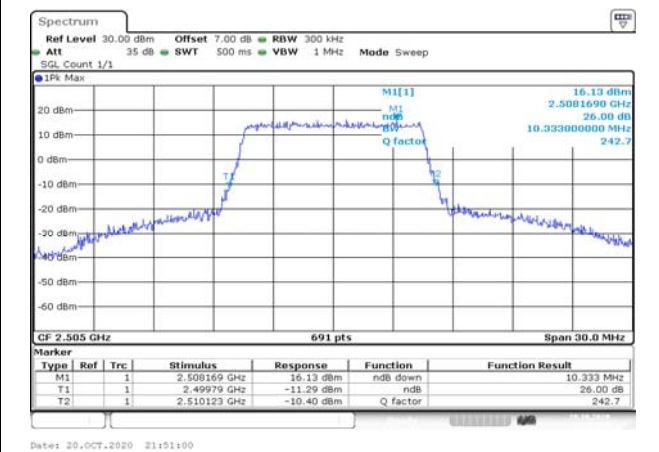


Fig.12

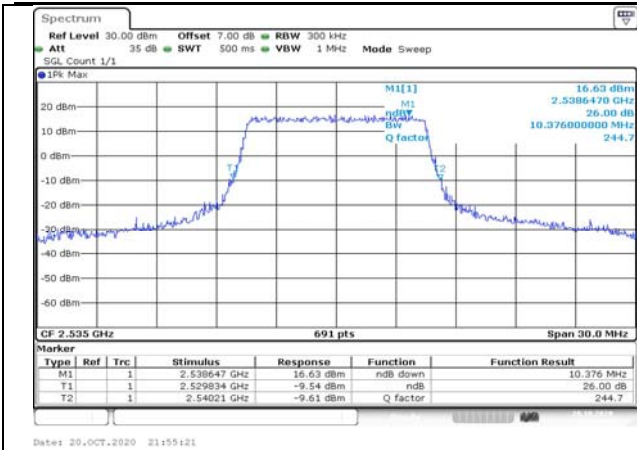


Fig.13

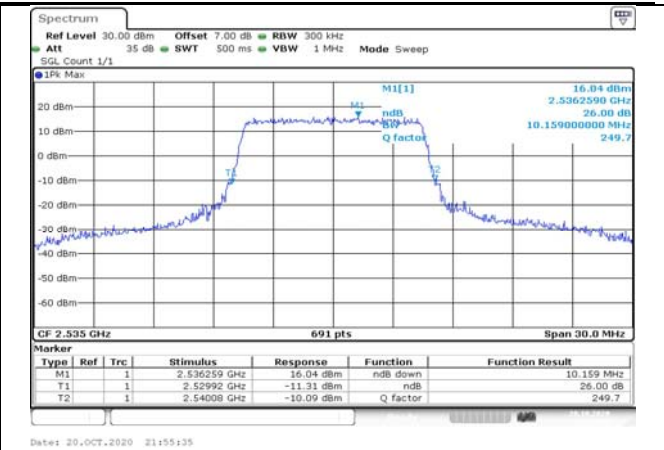


Fig.14

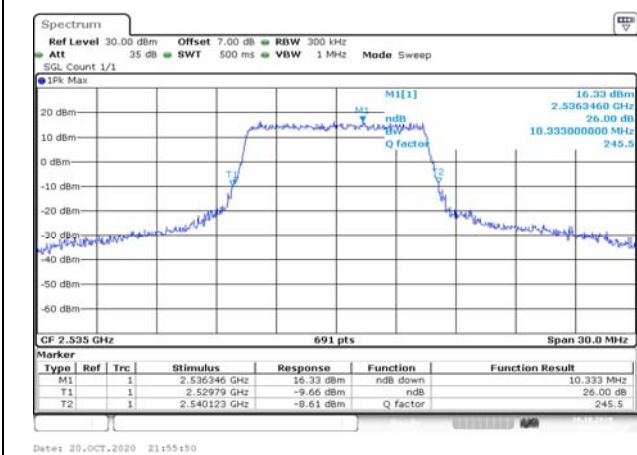


Fig.15

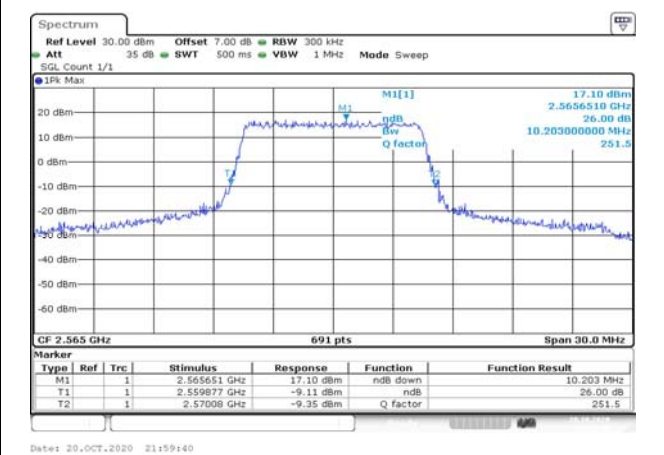


Fig.16

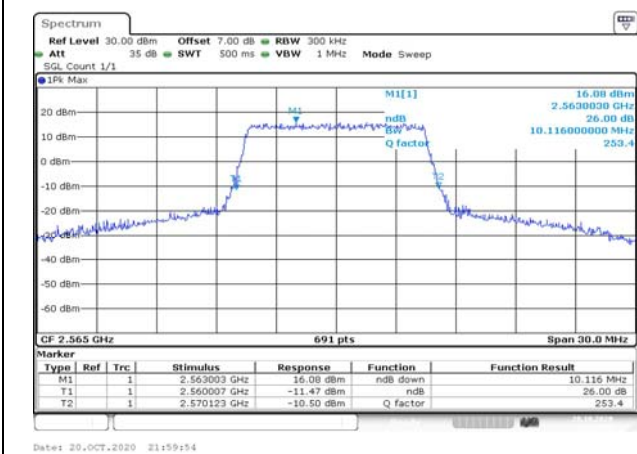


Fig.17

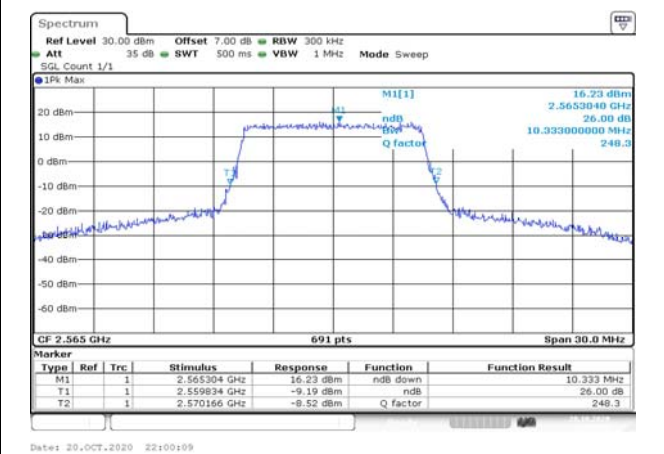


Fig.18

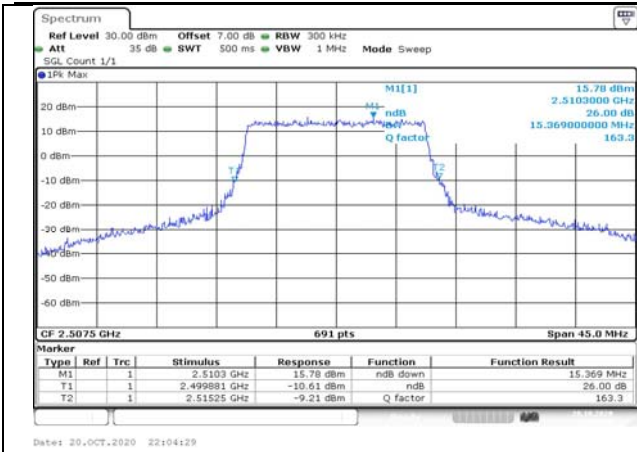


Fig.19

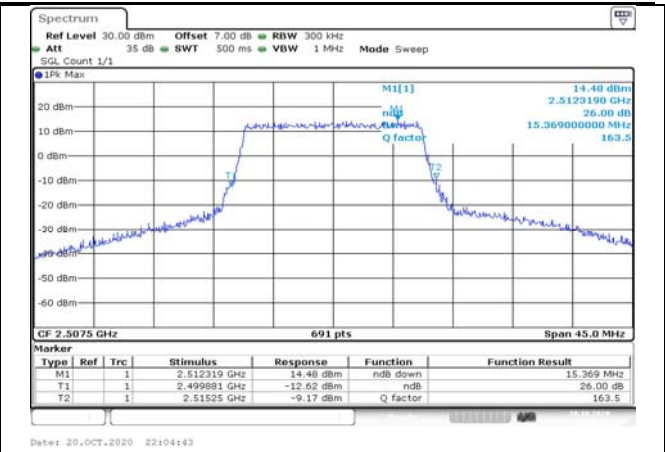


Fig.20

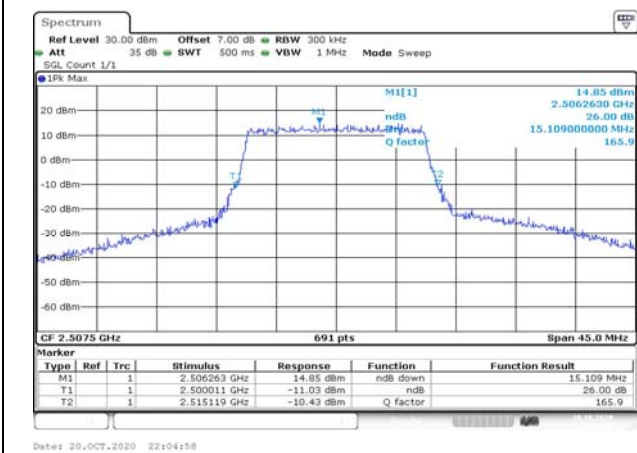


Fig.21

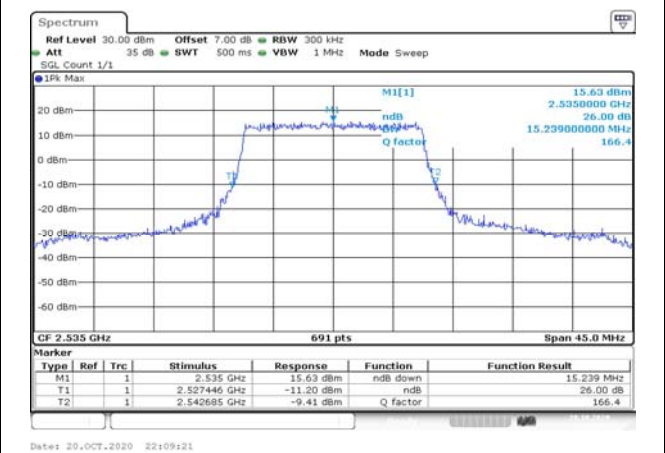


Fig.22

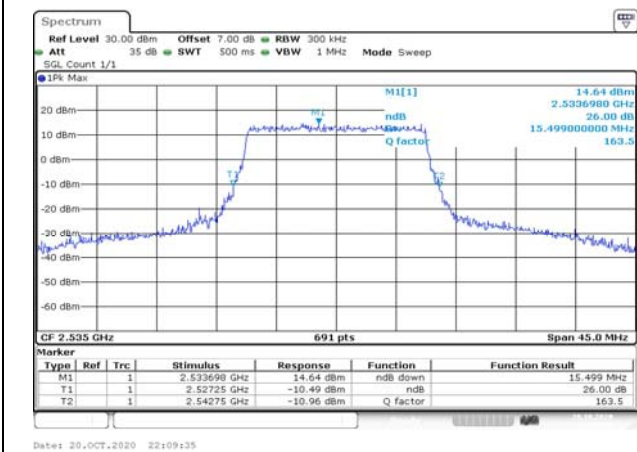


Fig.23

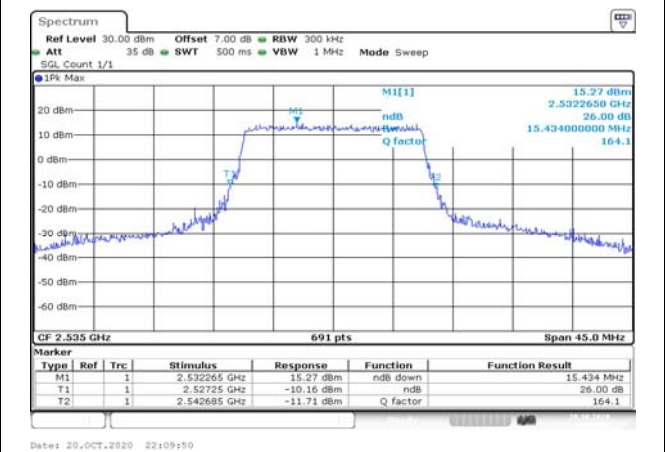


Fig.24

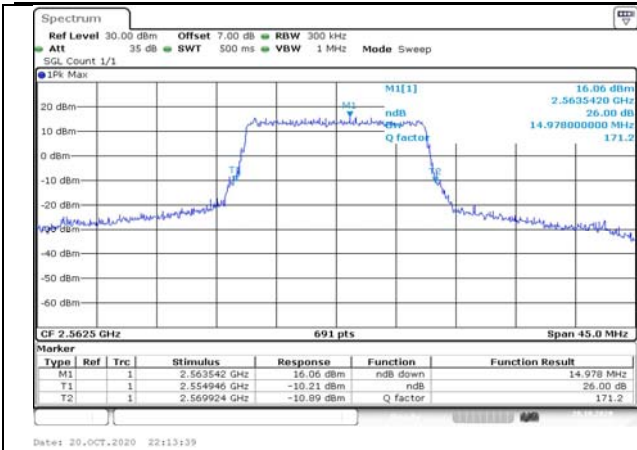


Fig.25

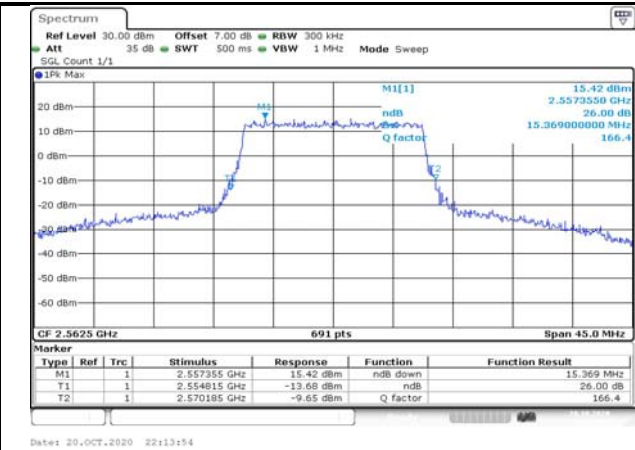


Fig.26

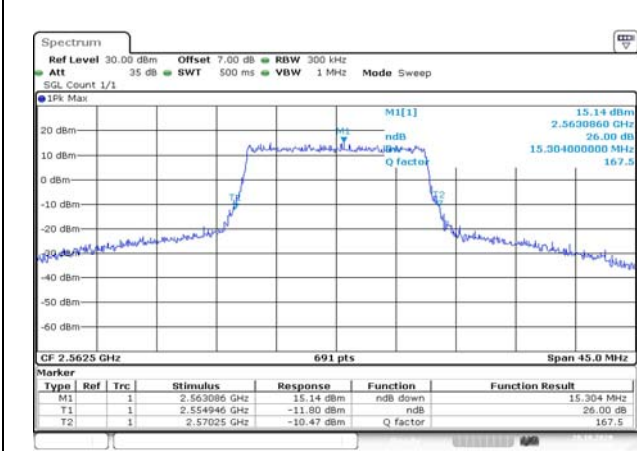


Fig.27

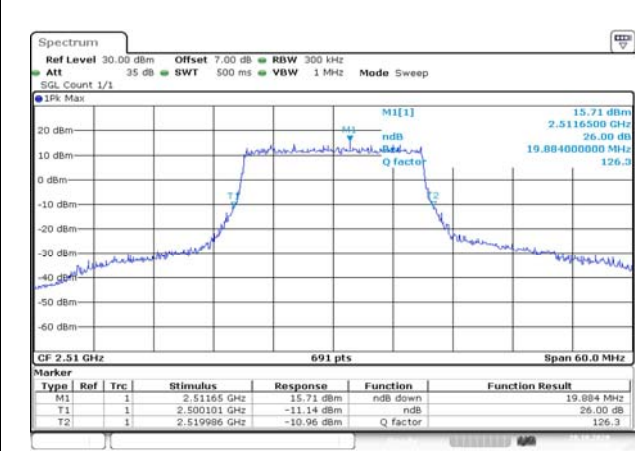


Fig.28

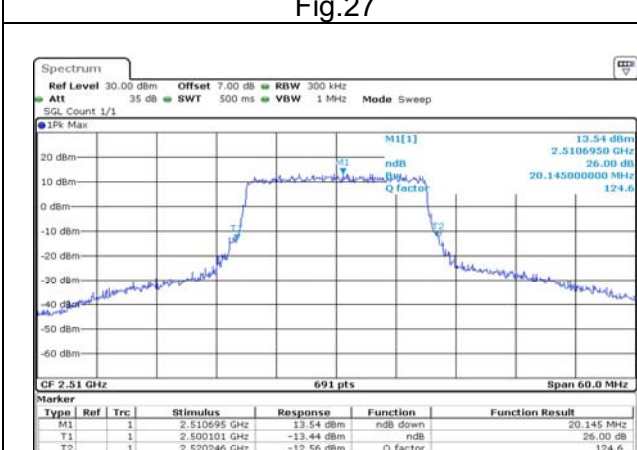


Fig.29

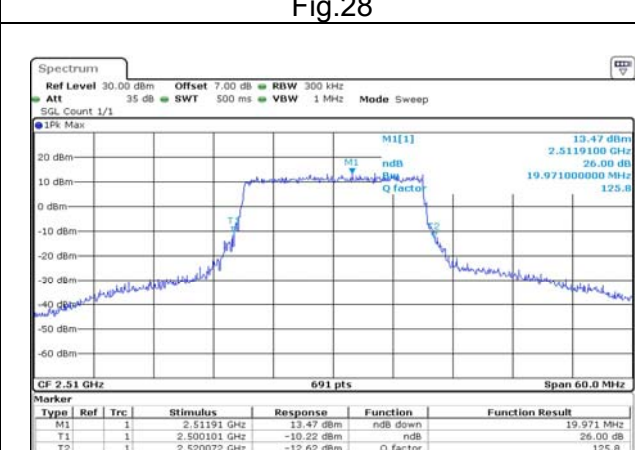


Fig.30

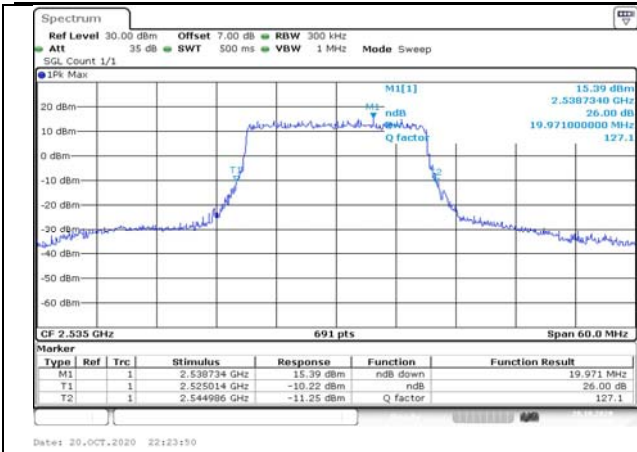


Fig.31

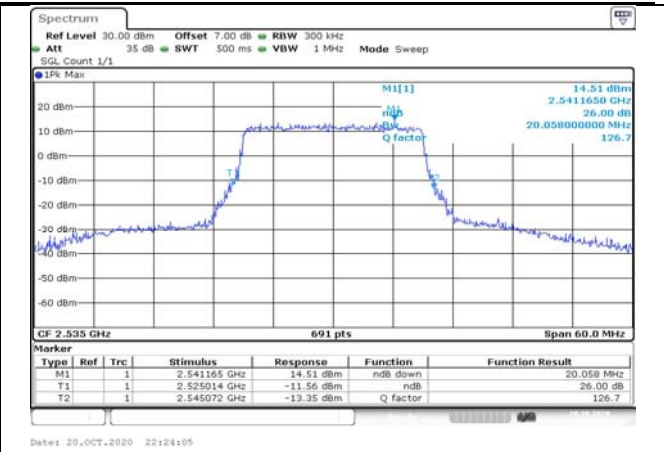


Fig.32

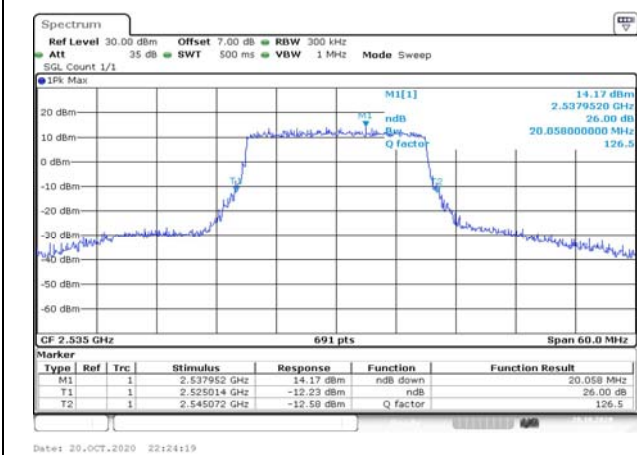


Fig.33

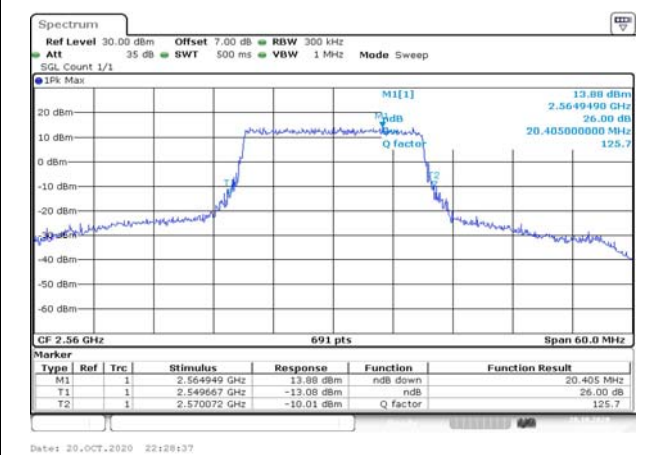


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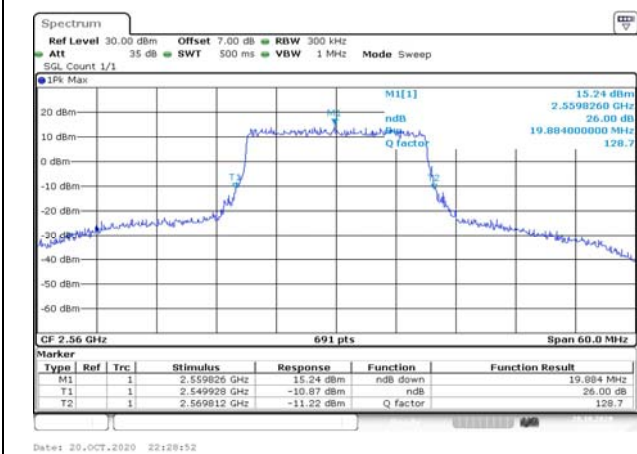


Fig.35

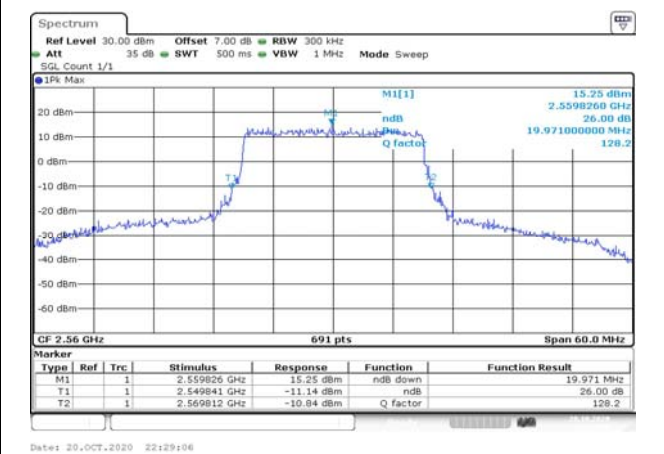


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
7	2502.5	20775	5	1	24	Fig.1	Fig.2	Fig.3
	2502.5	20775		25	0	Fig.4	Fig.5	Fig.6
	2535	21100		1	24	Fig.7	Fig.8	Fig.9
	2535	21100		25	0	Fig.10	Fig.11	Fig.12
	2567.5	21425		1	24	Fig.13	Fig.14	Fig.15
	2567.5	21425		25	0	Fig.16	Fig.17	Fig.18
	2505	20800	10	1	49	Fig.19	Fig.20	Fig.21
	2505	20800		50	0	Fig.22	Fig.23	Fig.24
	2535	21100		1	49	Fig.25	Fig.26	Fig.27
	2535	21100		50	0	Fig.28	Fig.29	Fig.30
	2565	21400		1	49	Fig.31	Fig.32	Fig.33
	2565	21400		50	0	Fig.34	Fig.35	Fig.36
	2507.5	20825	15	1	74	Fig.37	Fig.38	Fig.39
	2507.5	20825		75	0	Fig.40	Fig.41	Fig.42
	2535	21100		1	74	Fig.43	Fig.44	Fig.45
	2535	21100		75	0	Fig.46	Fig.47	Fig.48
	2562.5	21375		1	74	Fig.49	Fig.50	Fig.51
	2562.5	21375		75	0	Fig.52	Fig.53	Fig.54
	2510	20850	20	1	99	Fig.55	Fig.56	Fig.57
	2510	20850		100	0	Fig.58	Fig.59	Fig.60
	2535	21100		1	99	Fig.61	Fig.62	Fig.63
	2535	21100		100	0	Fig.64	Fig.65	Fig.66
	2560	21350		1	99	Fig.67	Fig.68	Fig.69
	2560	21350		100	0	Fig.70	Fig.71	Fig.72

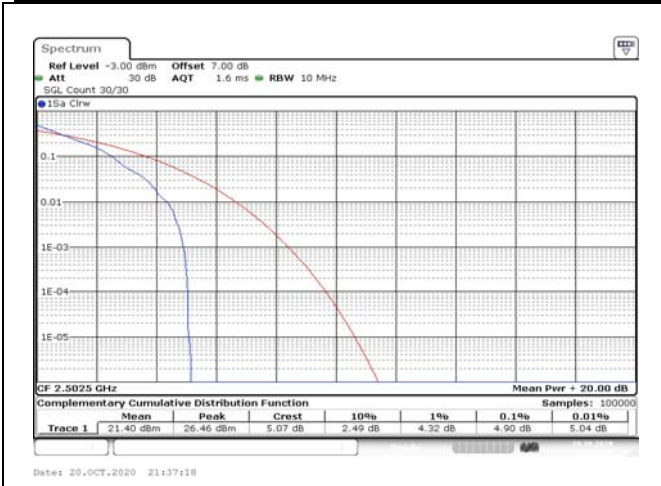


Fig.1

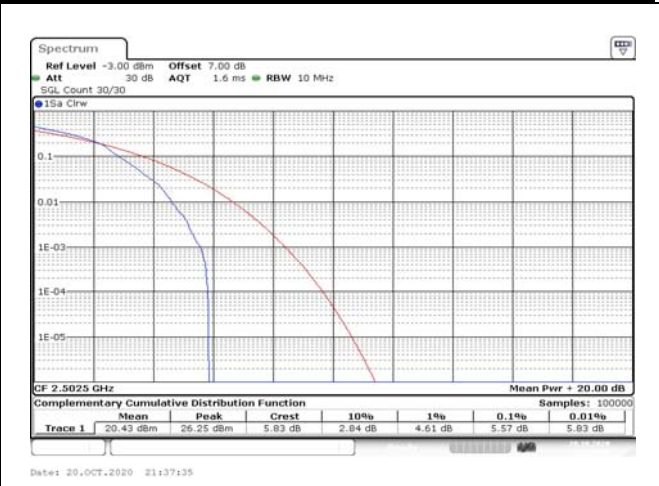


Fig.2

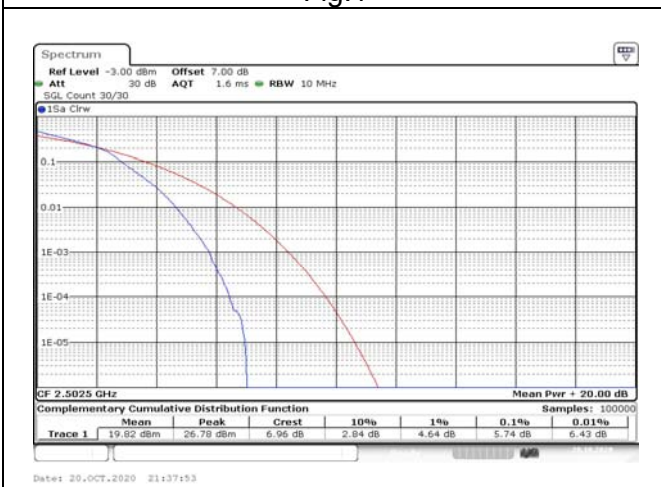


Fig.3

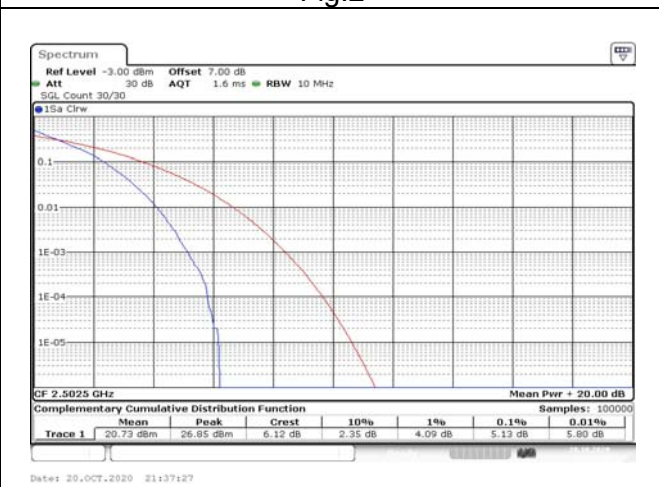


Fig.4

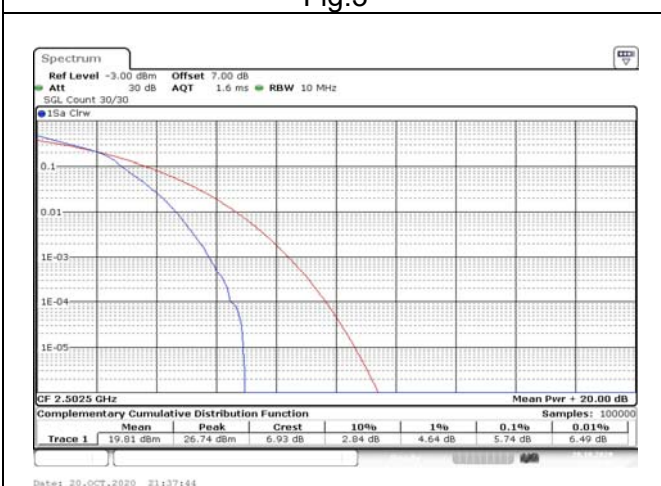


Fig.5

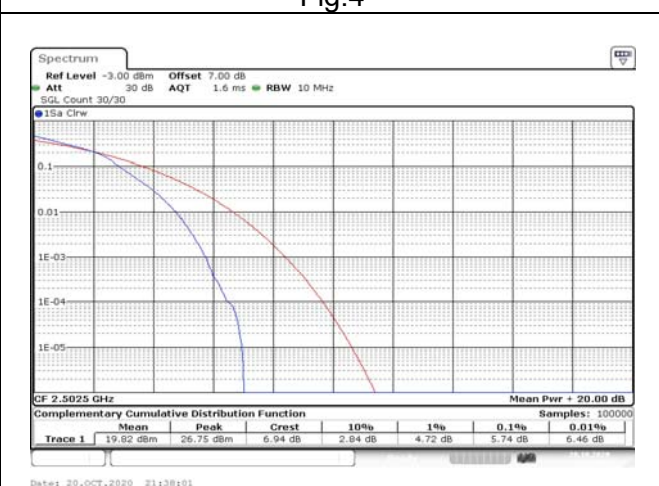


Fig.6

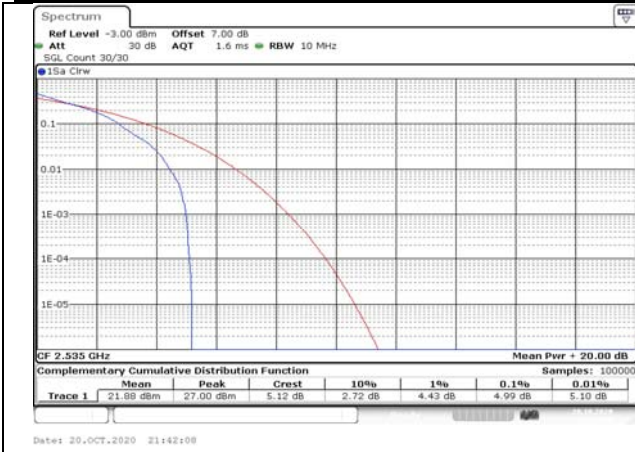


Fig.7

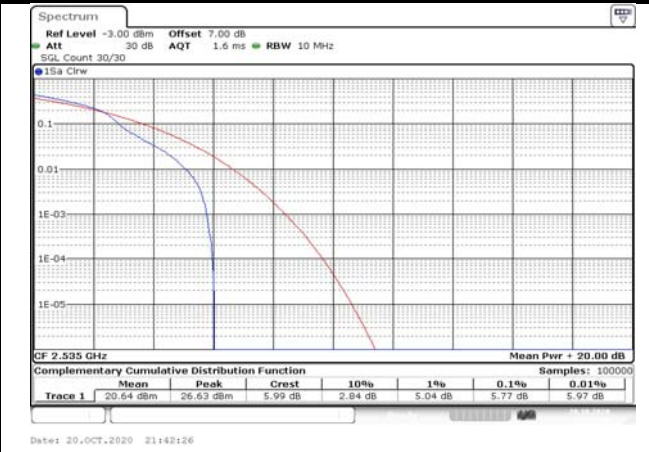


Fig.8

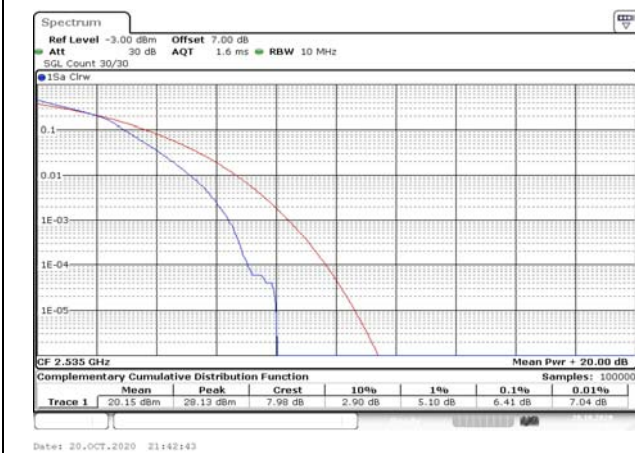


Fig.9

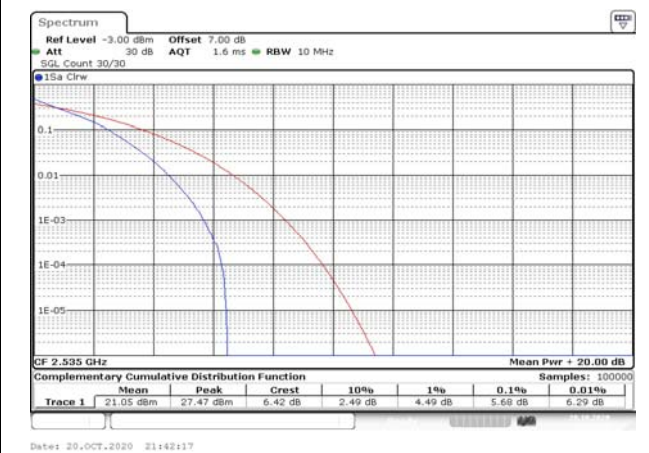


Fig.10

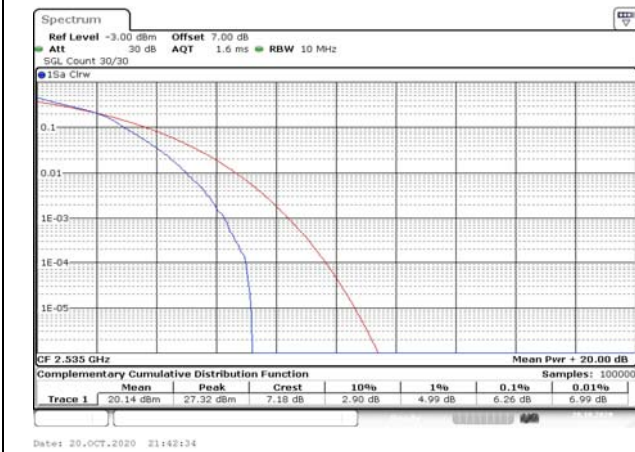


Fig.11

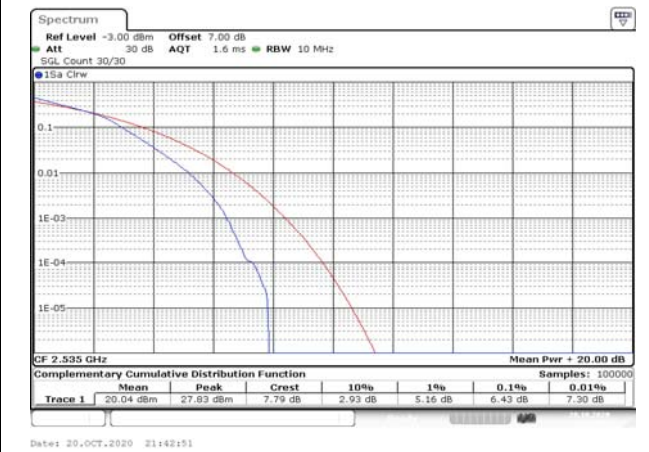


Fig.12

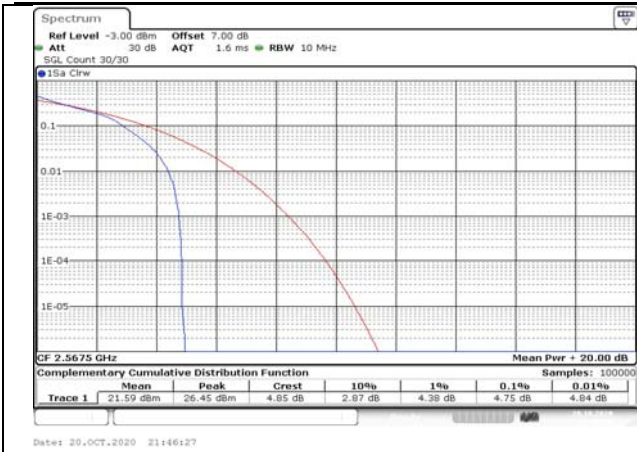


Fig.13

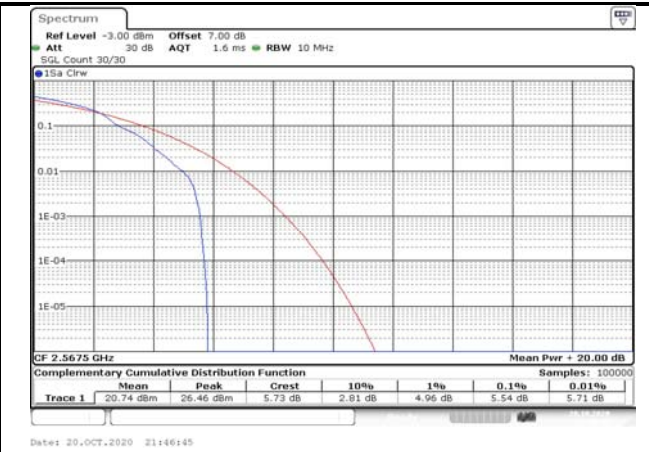


Fig.14

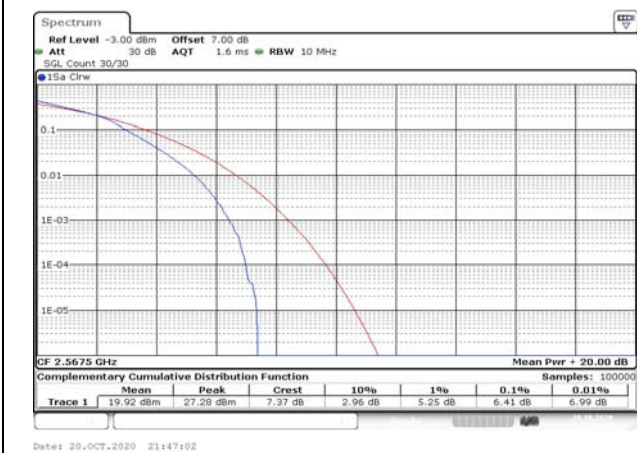


Fig.15

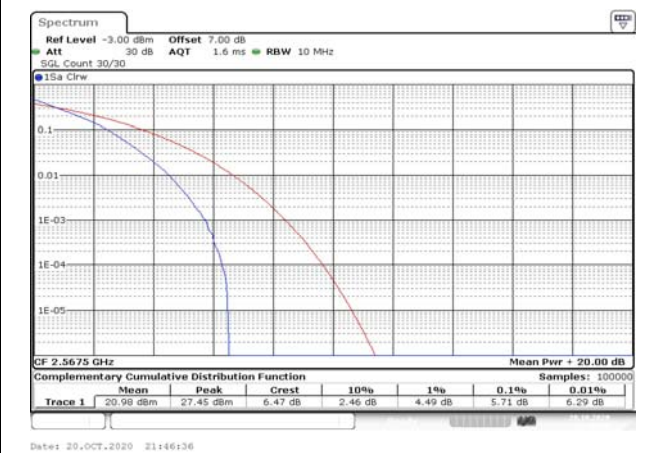


Fig.16

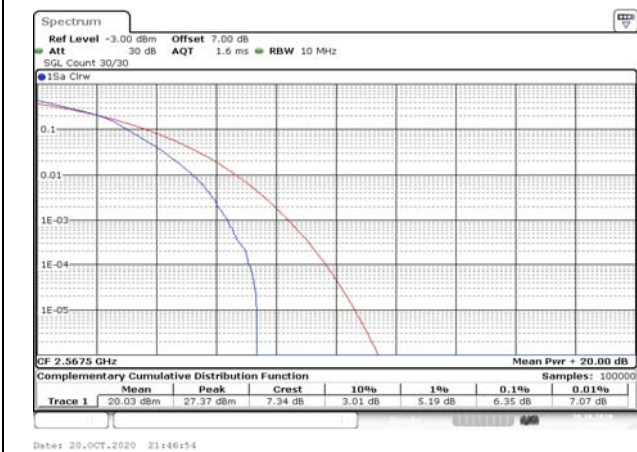


Fig.17

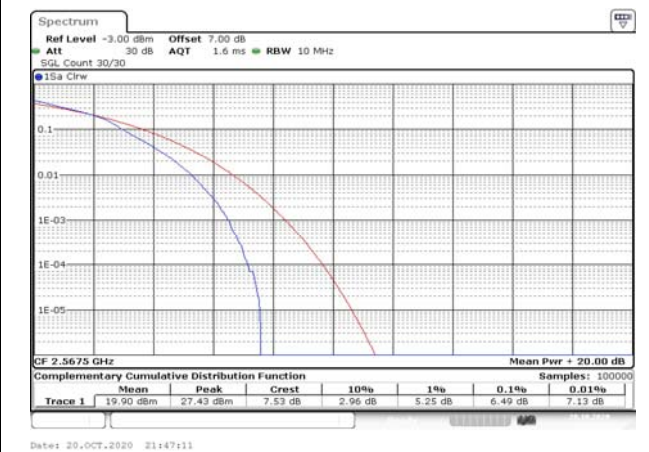


Fig.18



Fig.19



Fig.20

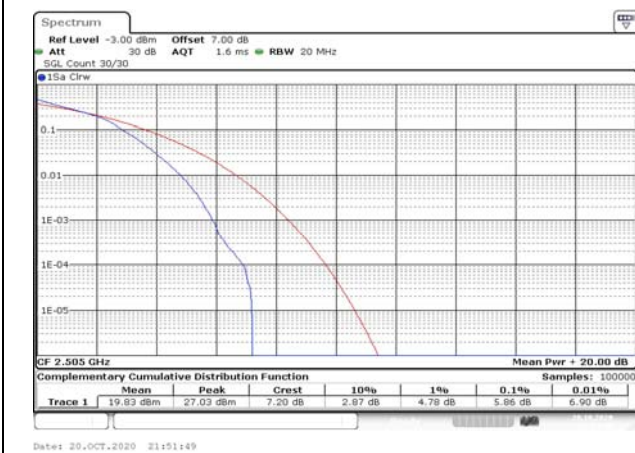


Fig.21

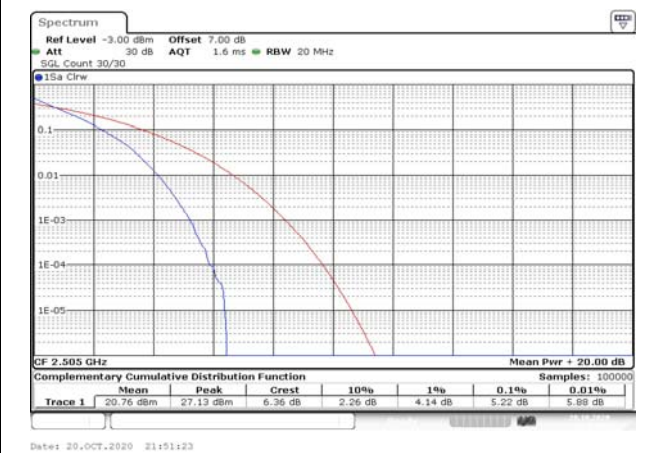


Fig.22

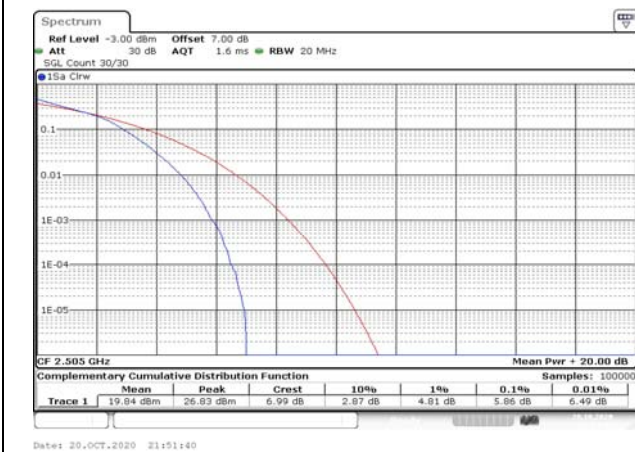


Fig.23

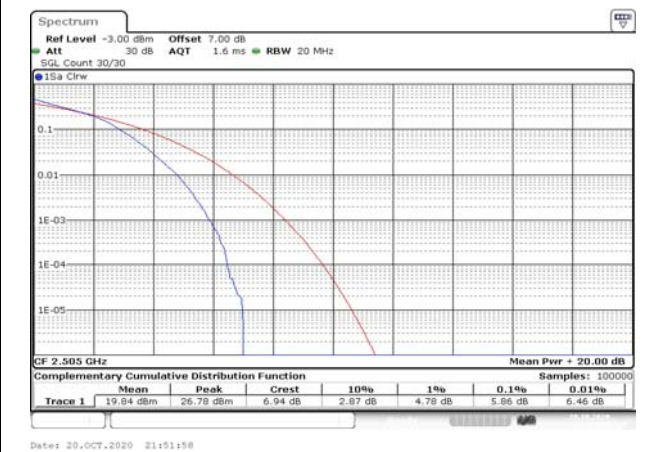


Fig.24



Fig.25



Fig.26

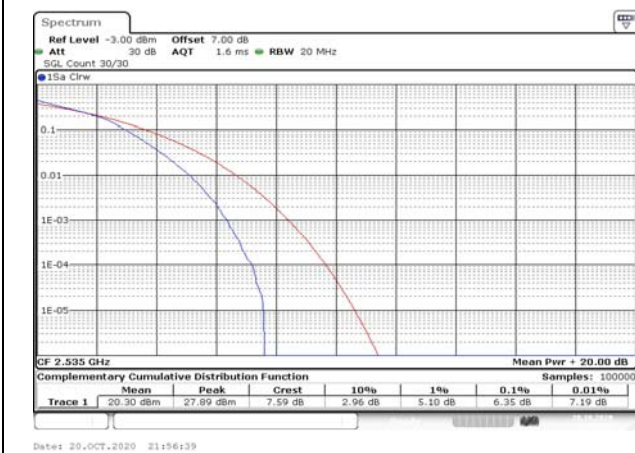


Fig.27

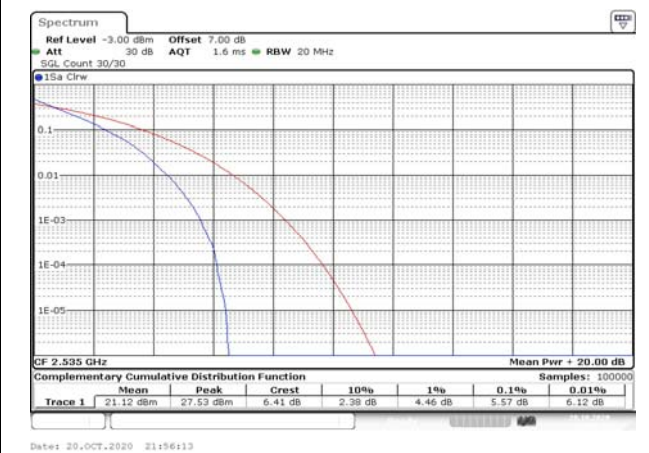


Fig.28

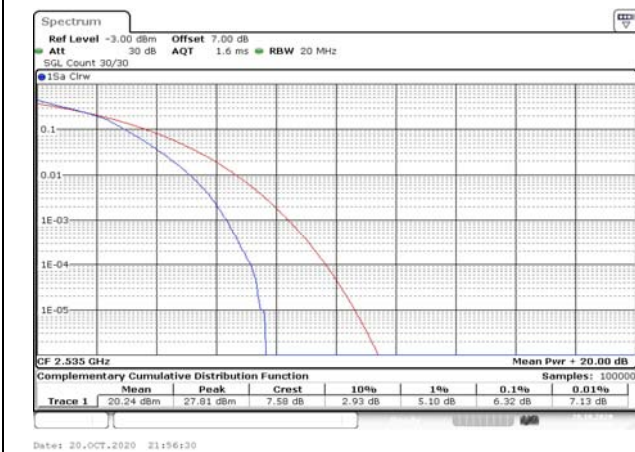


Fig.29

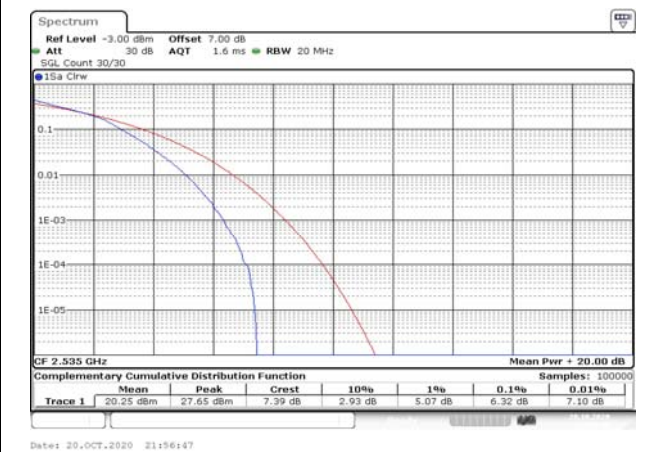


Fig.30

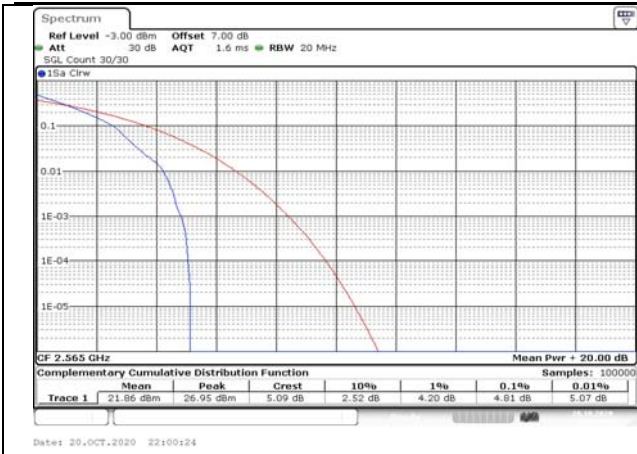


Fig.31

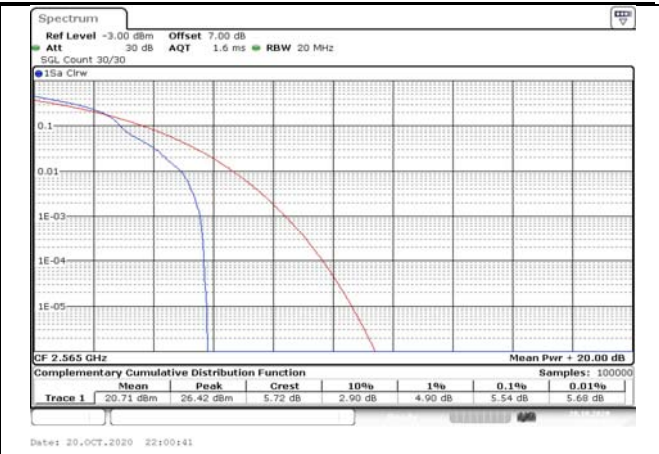


Fig.32

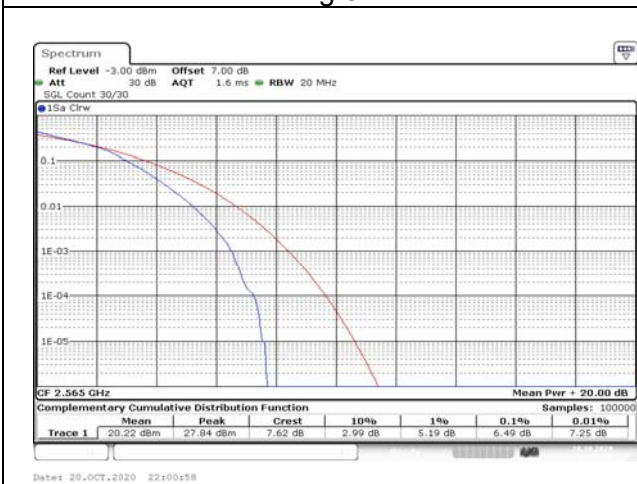


Fig.33

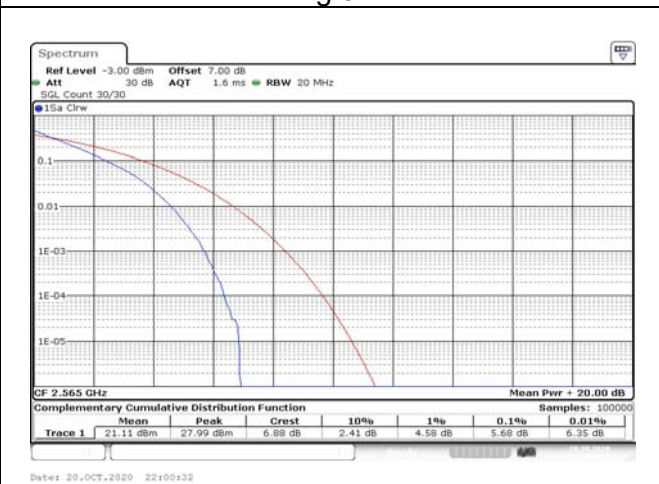


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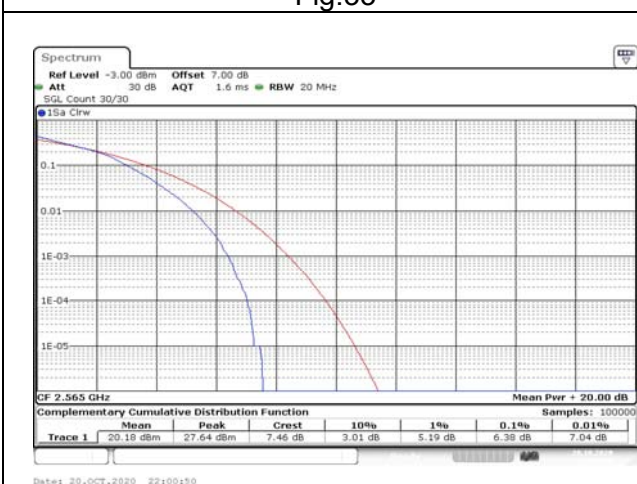


Fig.35

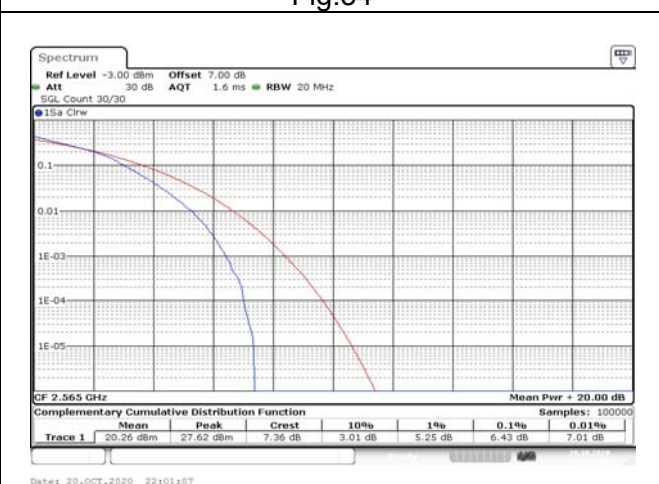


Fig.36

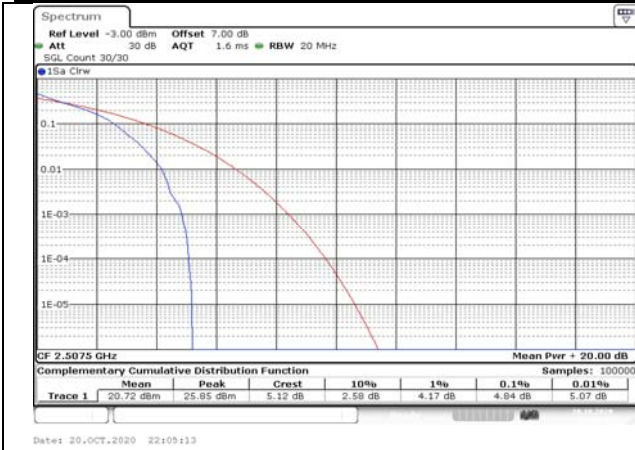


Fig.37



Fig.38



Fig.39

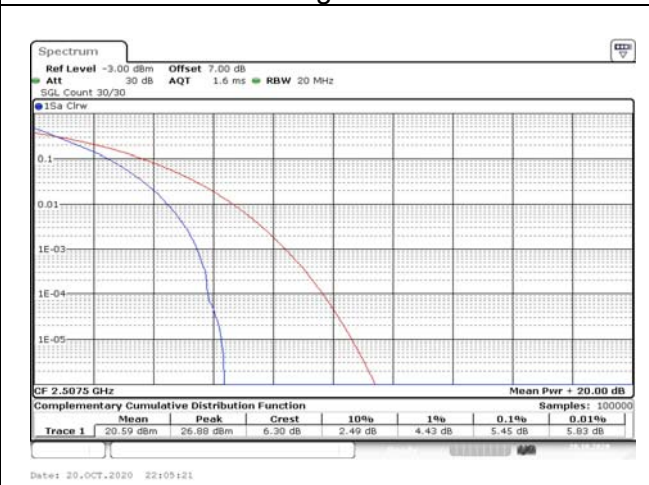


Fig.40

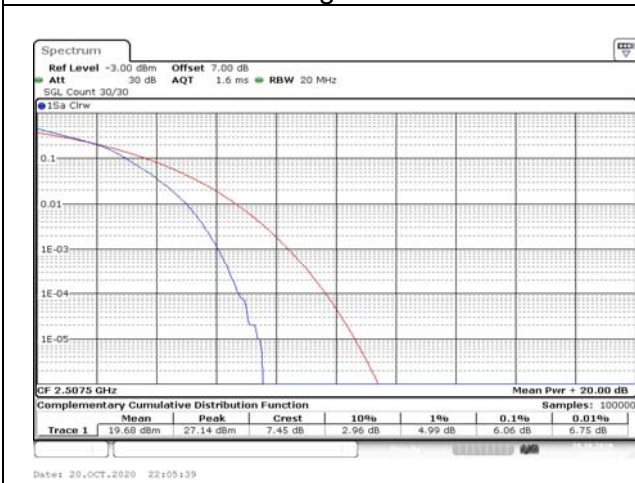


Fig.41

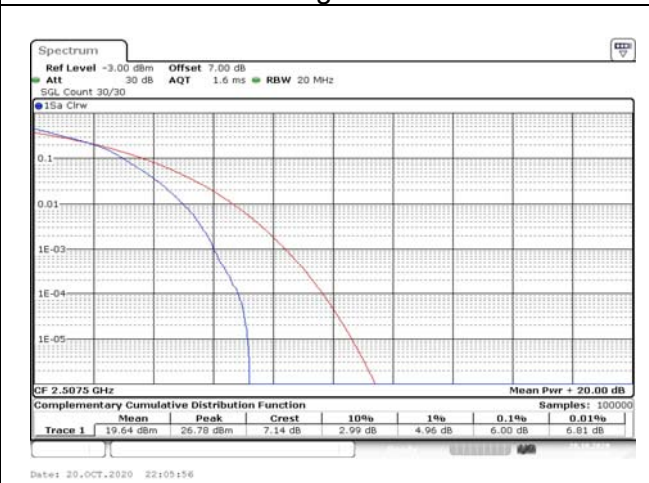


Fig.42

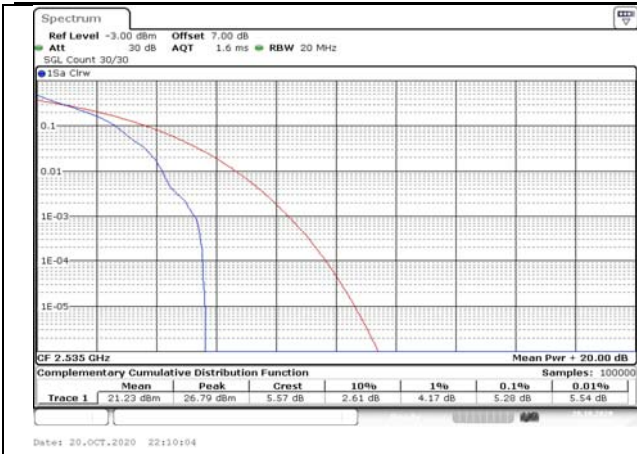


Fig.43

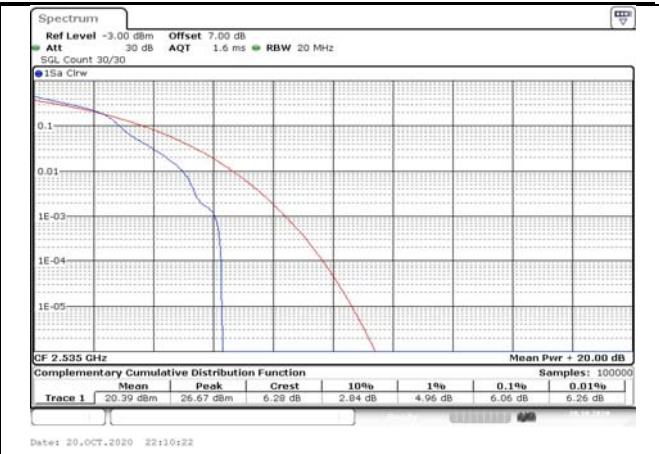


Fig.44

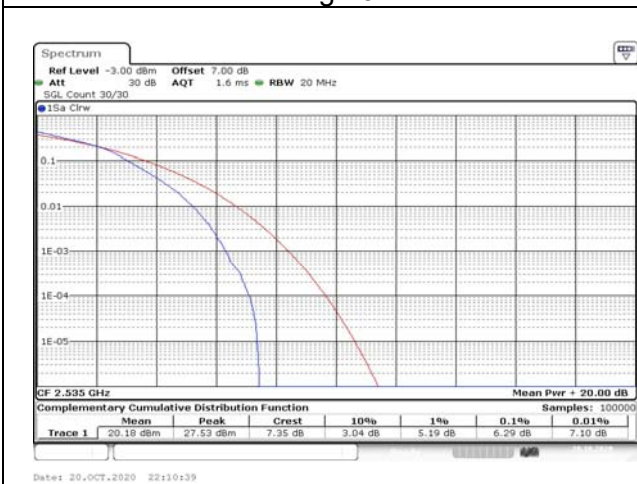


Fig.45

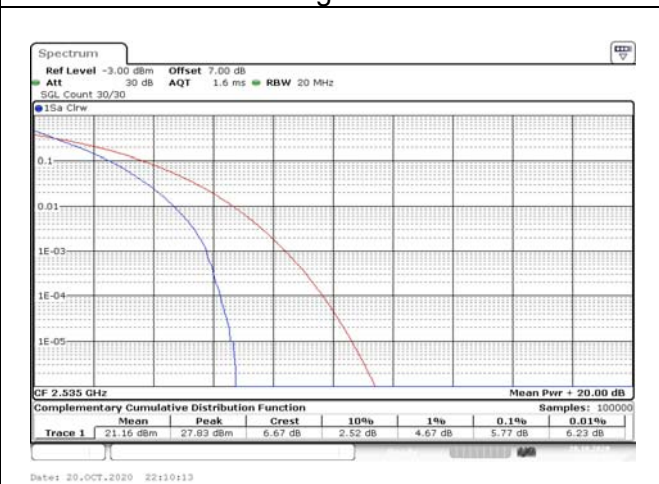


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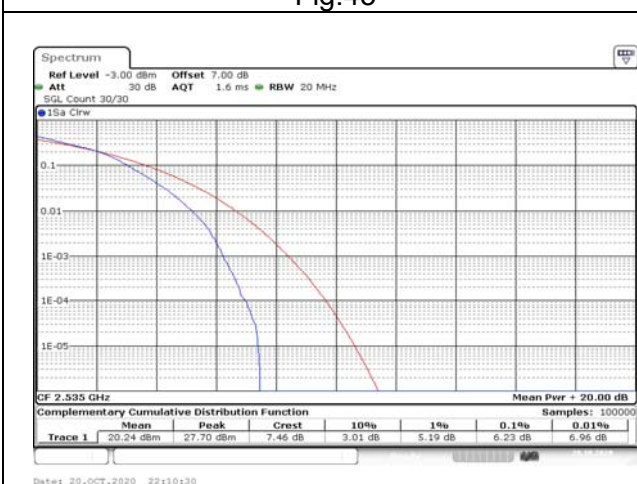


Fig.47

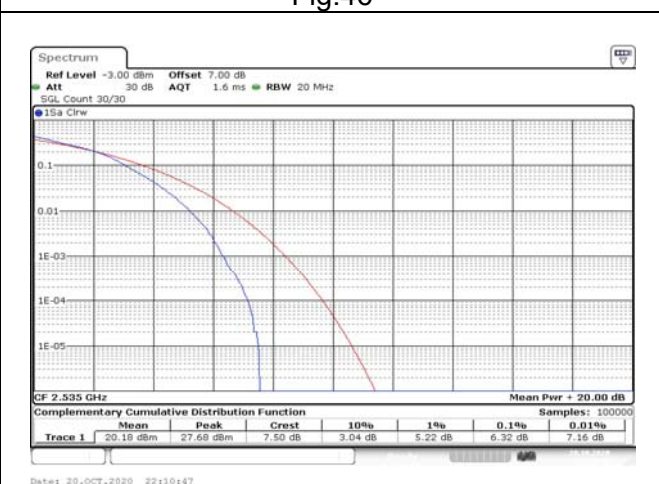


Fig.48



Fig.49

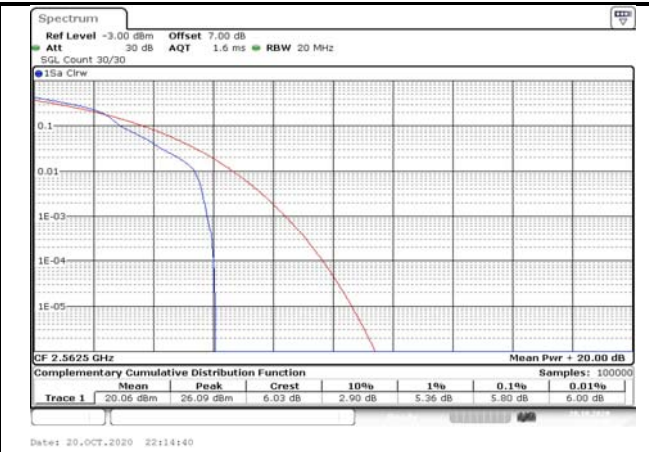


Fig.50

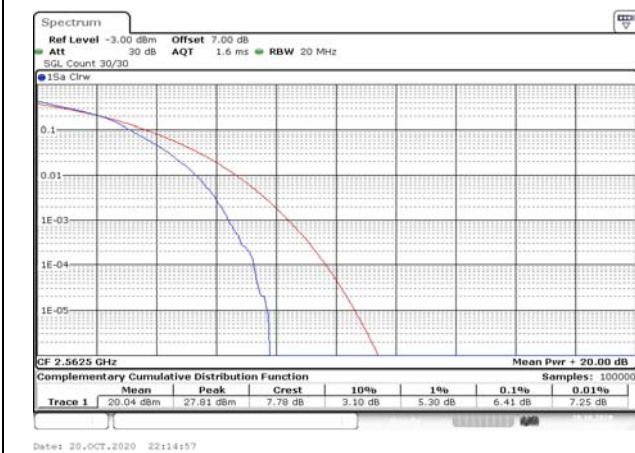


Fig.51

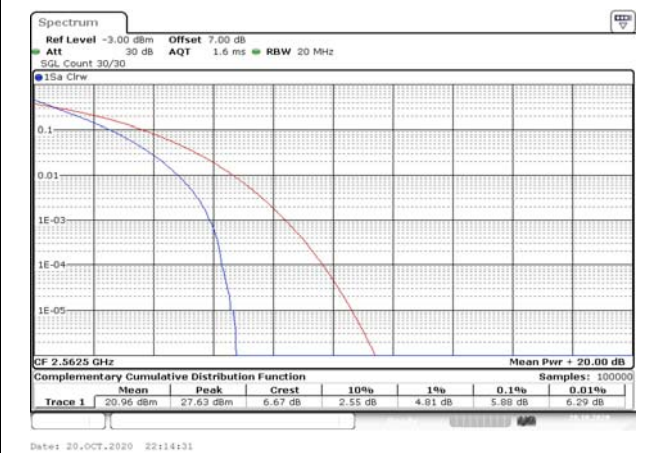


Fig.52

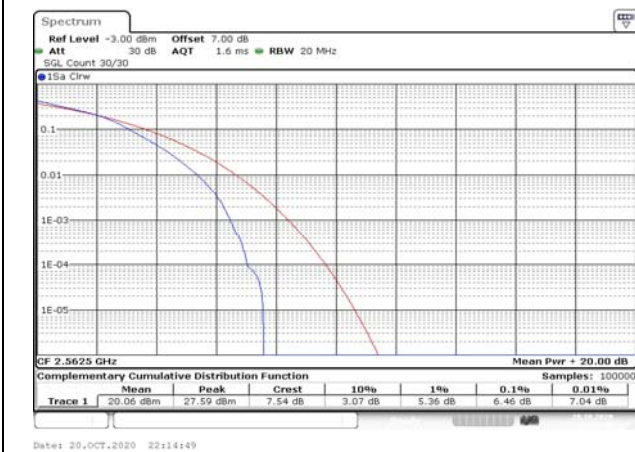


Fig.53

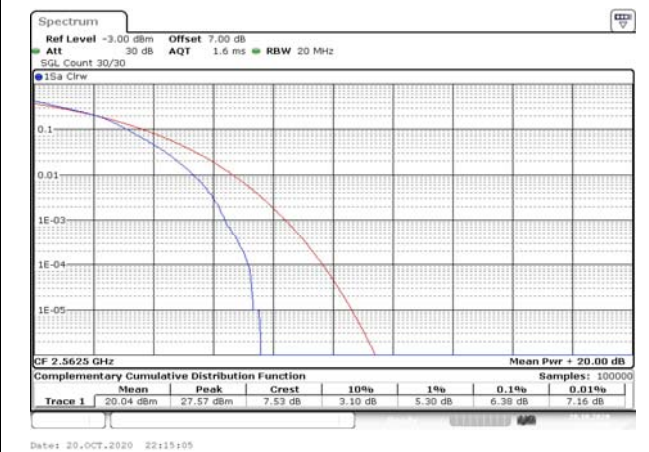


Fig.54

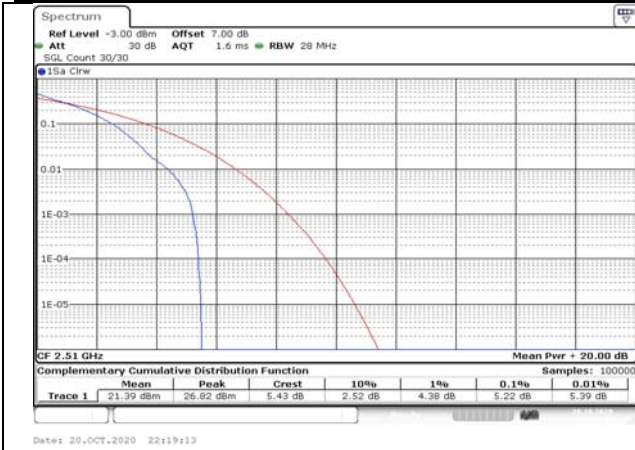


Fig.55

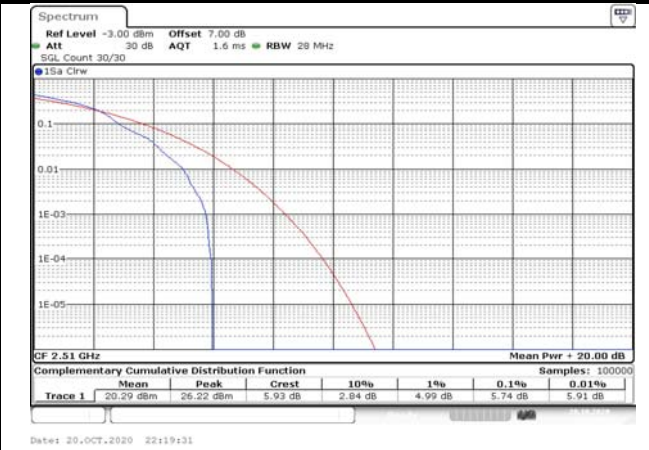


Fig.56

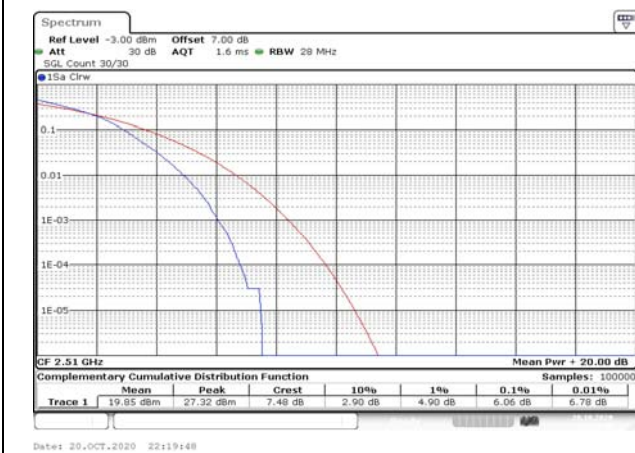


Fig.57

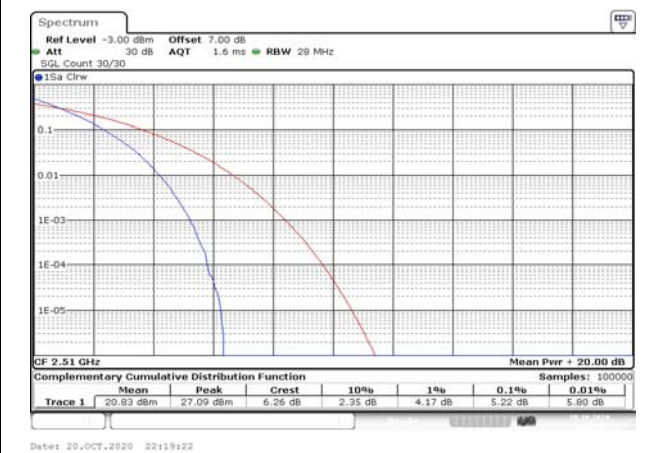


Fig.58

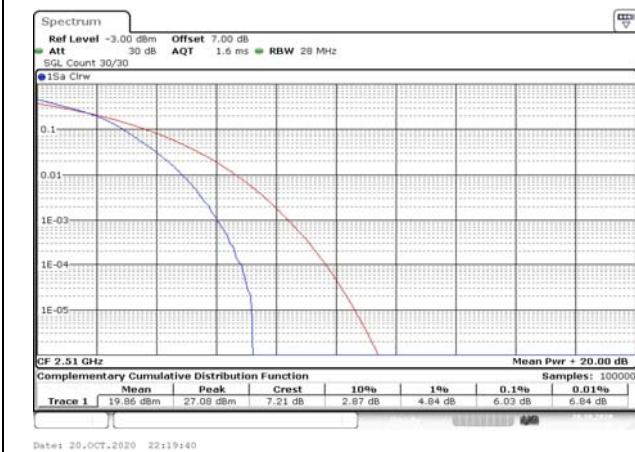


Fig.59

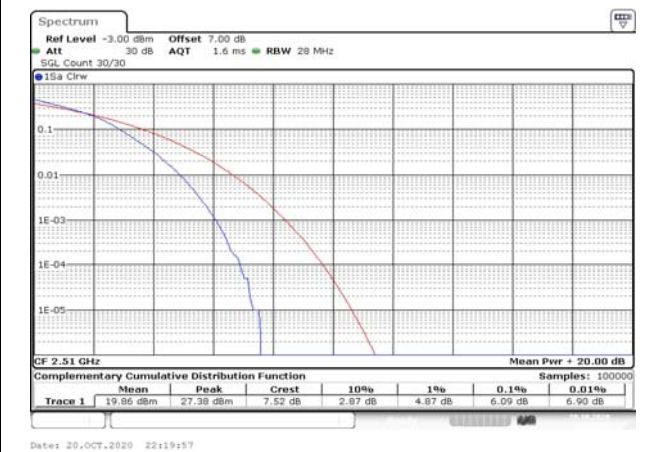


Fig.60

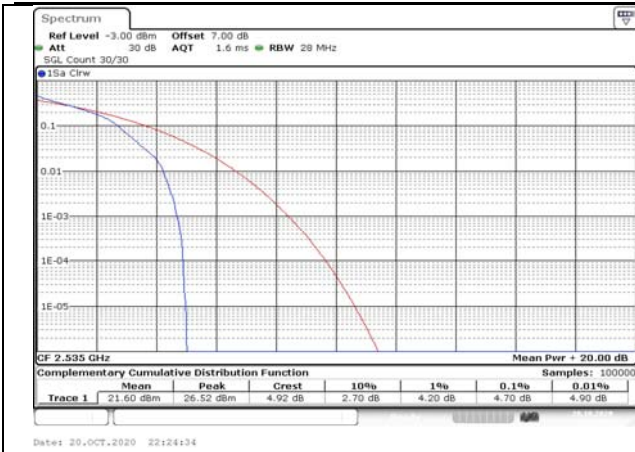


Fig.61

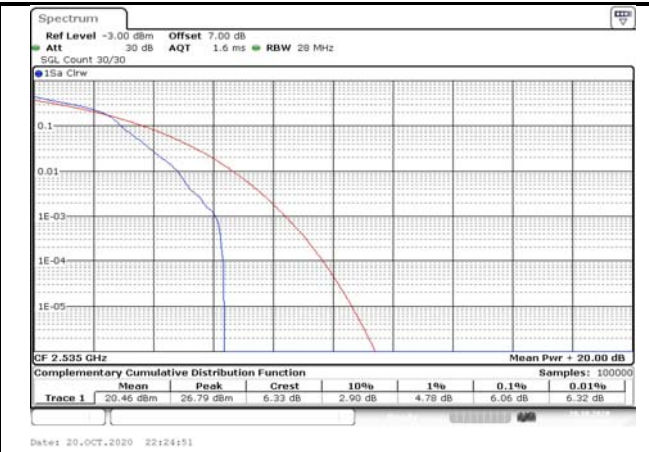


Fig.62

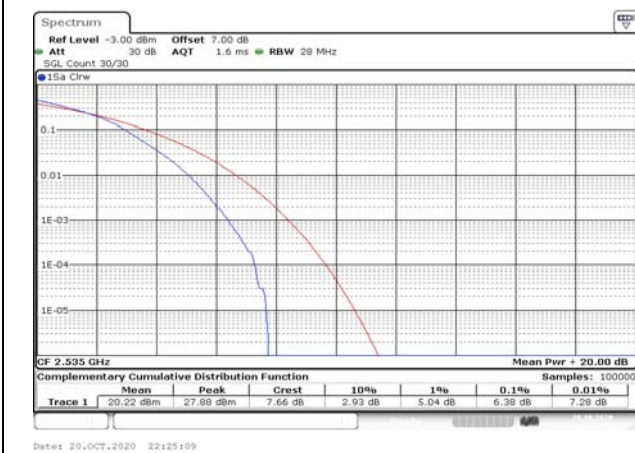


Fig.63

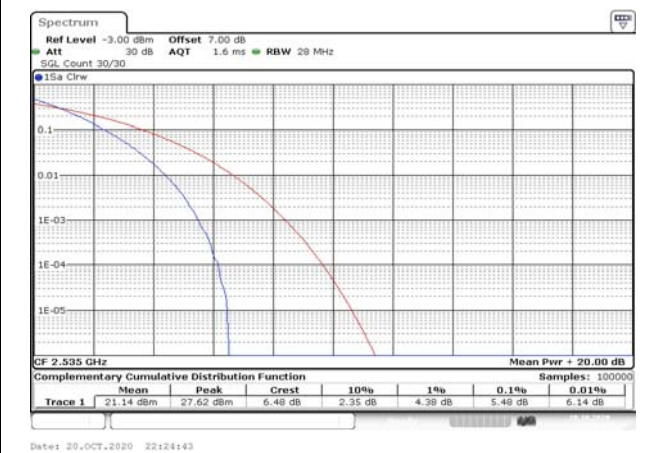


Fig.64

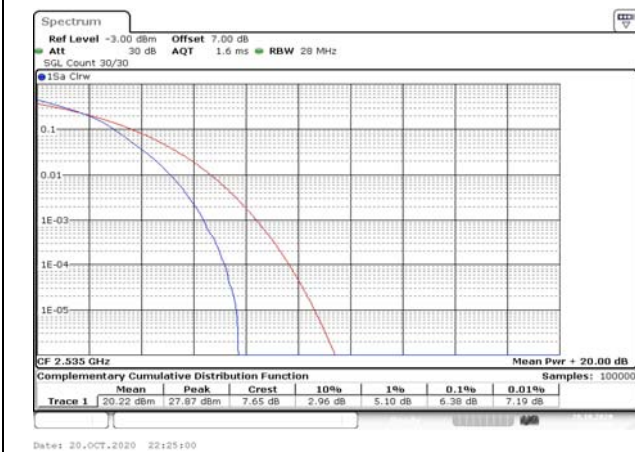


Fig.65

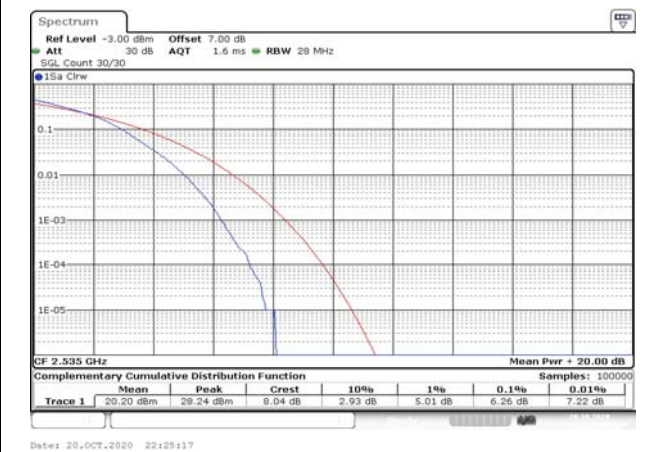


Fig.66

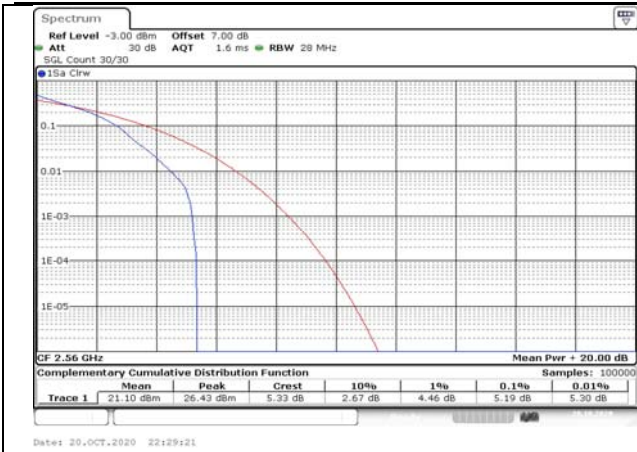


Fig.67

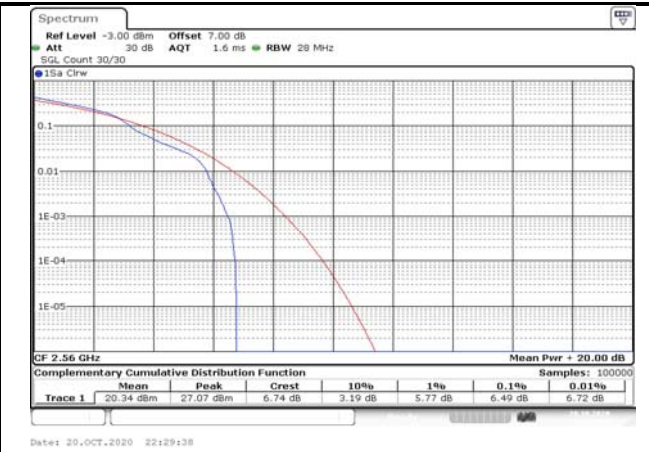


Fig.68

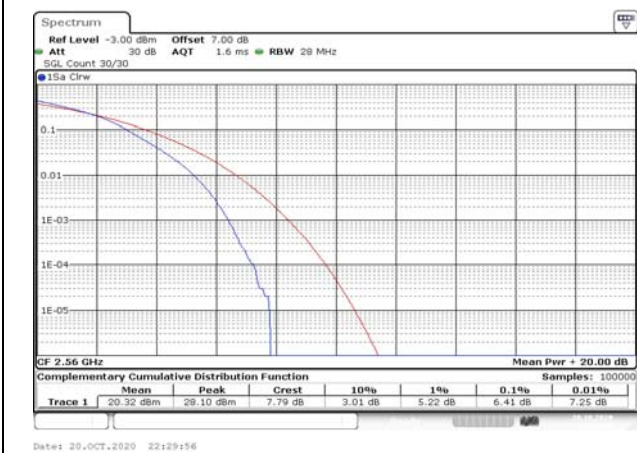


Fig.69

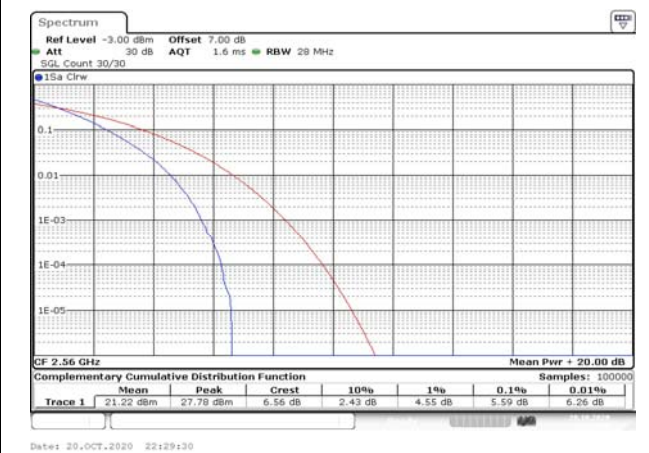


Fig.70

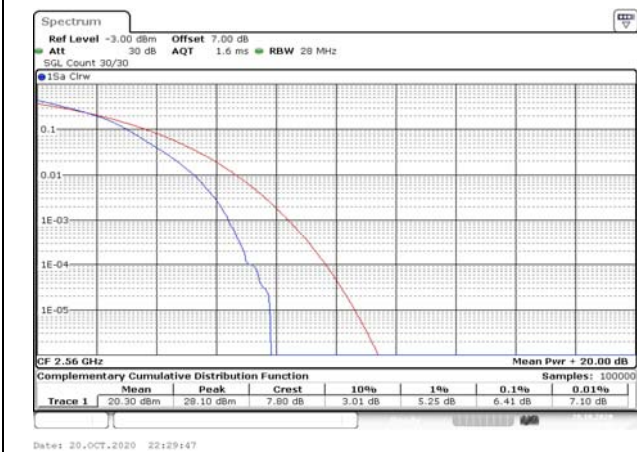


Fig.71

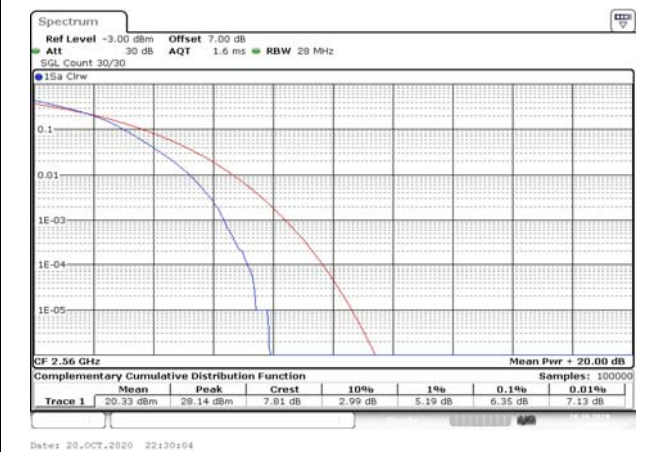


Fig.72

5 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

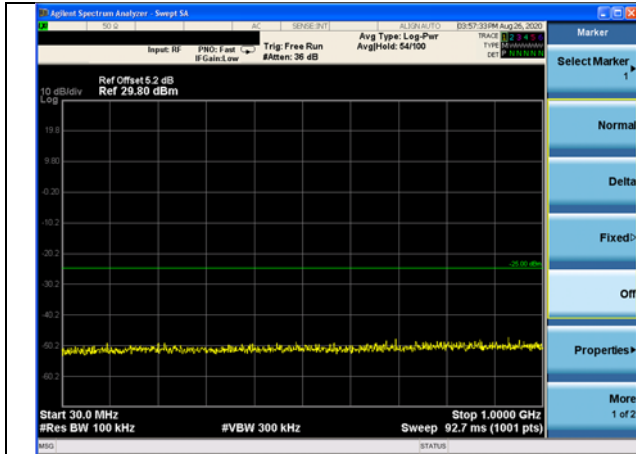


Fig.1

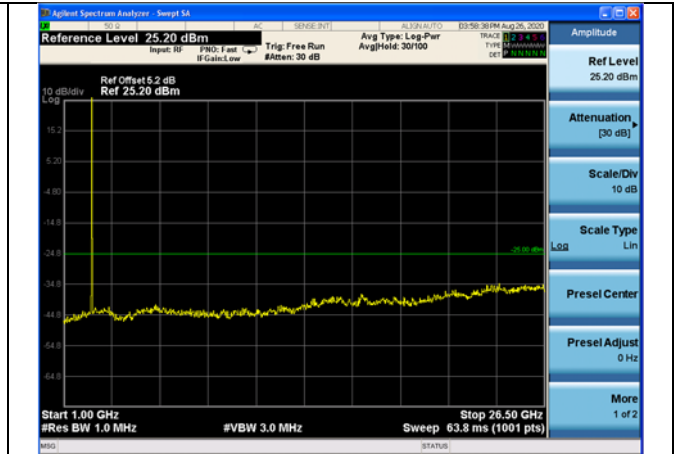


Fig.2

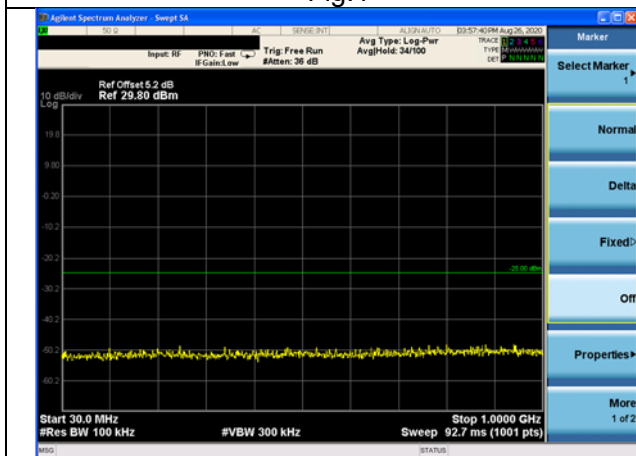


Fig.3

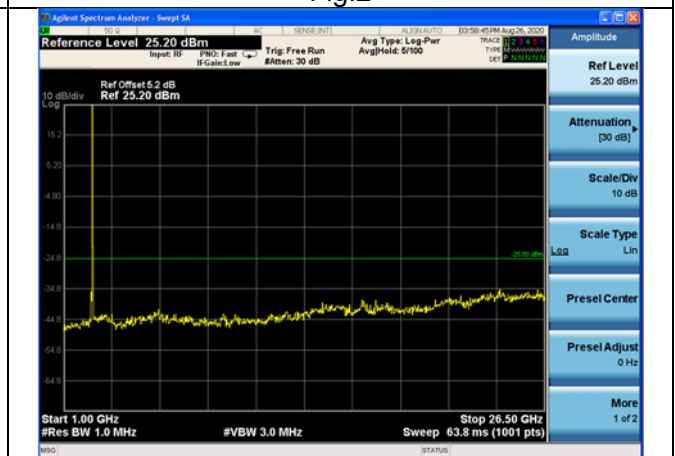


Fig.4

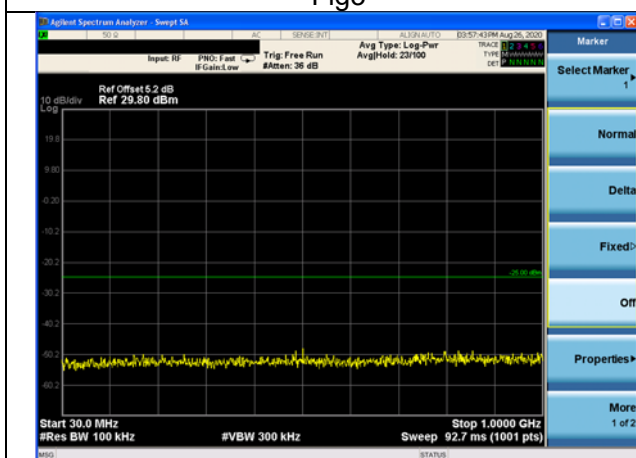


Fig.5

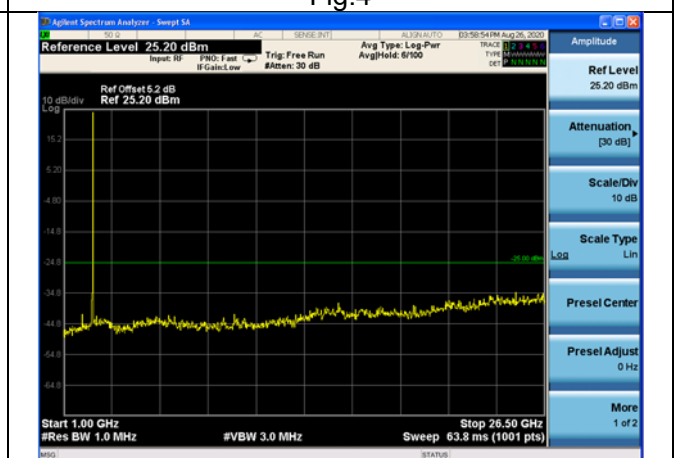


Fig.6

6 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.3
				25	0	Fig.4
	2505	20800	10	1	0	Fig.5
				50	0	Fig.6
	2565	21400		1	49	Fig.7
				50	0	Fig.8
	2507.5	20825	15	1	0	Fig.9
				75	0	Fig.10
	2562.5	21375		1	74	Fig.11
				75	0	Fig.12
	2510	20850	20	1	0	Fig.13
				100	0	Fig.14
	2560	21350		1	99	Fig.15
				100	0	Fig.16