

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 38

1 RF Power Output

Rx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2572.5	37775	5	1	0	23.13	
				1	12	23.06	
				1	24	23.11	
				12	0	22.09	
				12	7	22.18	
				12	13	22.21	
	2595	38000		25	0	21.15	
				1	0	23.21	
				1	12	23.04	
				1	24	23.15	
				12	0	22.12	
				12	7	22.26	
	2617.5	38225		12	13	22.23	
				25	0	21.08	
				1	0	23.20	
				1	12	23.09	
				1	24	23.09	
				12	0	22.16	
	16QAM	2572.5		37775	12	7	22.14
					12	13	22.17
					25	0	21.15
					1	0	22.58
					1	12	22.58
					1	24	22.47
2595		38000		12	0	21.11	
				12	7	21.10	
				12	13	21.09	
				25	0	20.21	
				1	0	22.57	
				1	12	22.56	
2617.5		38225		1	24	22.48	
				12	0	21.32	
				12	7	21.29	
				12	13	21.24	
				25	0	20.18	
				1	0	22.60	
2595	38000	1		12	22.59		
		1		24	22.57		
		12		0	21.34		
		12		7	21.38		
		12		13	21.29		
		25		0	20.25		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2572.5	37775	5	1	0	21.11
				1	12	21.15
				1	24	21.08
				12	0	20.18
				12	7	20.12
				12	13	20.07
				25	0	19.07
	2595	38000		1	0	21.63
				1	12	21.54
				1	24	21.63
				12	0	20.54
				12	7	20.52
				12	13	20.52
				25	0	19.61
	2617.5	38225		1	0	21.05
				1	12	21.09
				1	24	21.01
				12	0	20.10
				12	7	20.01
				12	13	20.09
				25	0	19.02

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2575	37800	10	1	0	23.17	
				1	25	22.95	
				1	49	23.19	
				25	0	22.24	
				25	12	22.23	
				25	25	22.16	
				50	0	21.23	
	2595	38000		1	0	23.04	
				1	25	23.20	
				1	49	23.16	
				25	0	22.18	
				25	12	22.27	
				25	25	22.27	
				50	0	21.21	
	2615	38200		1	0	23.10	
				1	25	22.97	
				1	49	23.10	
				25	0	22.18	
				25	12	22.23	
				25	25	22.22	
				50	0	21.17	
	16QAM	2575		37800	1	0	22.57
					1	25	22.50
					1	49	22.46
25					0	21.25	
25					12	21.27	
25					25	21.24	
50					0	20.30	
2595		38000		1	0	22.43	
				1	25	22.32	
				1	49	22.23	
				25	0	21.23	
				25	12	21.21	
				25	25	21.20	
				50	0	20.28	
2615		38200		1	0	22.46	
				1	25	22.37	
				1	49	22.47	
				25	0	21.26	
				25	12	21.23	
				25	25	21.20	
				50	0	20.07	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2575	37800	10	1	0	21.19
				1	25	21.19
				1	49	21.30
				25	0	20.25
				25	12	20.19
				25	25	20.25
				50	0	19.19
	2595	38000		1	0	21.18
				1	25	21.21
				1	49	21.21
				25	0	20.21
				25	12	20.15
				25	25	20.21
				50	0	19.14
	2615	38200		1	0	21.13
				1	25	21.10
				1	49	21.11
				25	0	20.10
				25	12	20.03
				25	25	20.13
				50	0	19.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2577.5	37825	15	1	0	23.04	
				1	37	22.94	
				1	74	22.93	
				36	0	22.15	
				36	29	22.16	
				36	30	22.14	
				75	0	21.20	
	2595	38000		1	0	22.99	
				1	37	23.11	
				1	74	23.15	
				36	0	22.18	
				36	29	22.24	
				36	30	22.23	
				75	0	21.13	
	2612.5	38175		1	0	23.19	
				1	37	23.03	
				1	74	23.06	
				36	0	22.22	
				36	29	22.10	
				36	30	22.09	
				75	0	21.19	
	16QAM	2577.5		37825	1	0	22.47
					1	37	22.32
					1	74	22.36
36					0	21.23	
36					29	21.19	
36					30	21.20	
75					0	20.23	
2595		38000	1	0	22.25		
			1	37	22.19		
			1	74	22.23		
			36	0	21.17		
			36	29	21.22		
			36	30	21.25		
			75	0	20.11		
2612.5		38175	1	0	22.15		
			1	37	21.90		
			1	74	21.97		
			36	0	21.11		
			36	29	21.14		
			36	30	21.10		
75	0	20.25					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2577.5	37825	15	1	0	21.19
				1	37	21.19
				1	74	21.20
				36	0	20.19
				36	29	20.19
				36	30	20.22
				75	0	19.19
	2595	38000		1	0	21.15
				1	37	21.16
				1	74	21.14
				36	0	20.14
				36	29	20.13
				36	30	20.14
				75	0	19.11
	2612.5	38175		1	0	21.18
				1	37	21.25
				1	74	21.22
				36	0	20.18
				36	29	20.18
				36	30	20.18
				75	0	19.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	23.13
				1	49	22.99
				1	99	23.04
				50	0	22.14
				50	24	22.10
				50	50	22.18
				100	0	21.18
	2595	38000		1	0	23.01
				1	49	23.06
				1	99	23.16
				50	0	22.13
				50	24	22.20
				50	50	22.19
				100	0	21.10
	2610	38150		1	0	23.09
				1	49	23.04
				1	99	23.07
				50	0	22.17
				50	24	22.07
				50	50	22.10
				100	0	21.14
16QAM	2580	37850	1	0	22.34	
			1	49	22.32	
			1	99	22.29	
			50	0	21.15	
			50	24	21.16	
			50	50	21.16	
			100	0	20.15	
	2595	38000	1	0	22.13	
			1	49	22.21	
			1	99	22.21	
			50	0	21.19	
			50	24	21.17	
			50	50	21.22	
			100	0	20.15	
	2610	38150	1	0	21.72	
			1	49	21.69	
			1	99	21.69	
			50	0	20.17	
			50	24	20.25	
			50	50	20.15	
			100	0	20.10	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2580	37850	20	1	0	21.24
				1	49	21.23
				1	99	21.21
				50	0	20.24
				50	24	20.18
				50	50	20.17
				100	0	19.21
	2595	38000		1	0	21.16
				1	49	21.15
				1	99	21.16
				50	0	20.09
				50	24	20.19
				50	50	20.12
				100	0	19.12
	2610	38150		1	0	21.15
				1	49	21.09
				1	99	21.10
				50	0	20.07
				50	24	20.16
				50	50	20.14
				100	0	19.16

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
38	2572.5	37775	5	25	0	4.472	Fig.1	4.472	Fig.2	4.472	Fig.3
	2595	38000		25	0	4.472	Fig.4	4.472	Fig.5	4.472	Fig.6
	2617.5	38225		25	0	4.472	Fig.7	4.450	Fig.8	4.428	Fig.9
	2575	37800	10	50	0	8.944	Fig.10	8.944	Fig.11	8.944	Fig.12
	2595	38000		50	0	8.944	Fig.13	8.944	Fig.14	8.944	Fig.15
	2615	38200		50	0	8.944	Fig.16	8.944	Fig.17	8.944	Fig.18
	2577.5	37825	15	75	0	13.415	Fig.19	13.415	Fig.20	13.415	Fig.21
	2595	38000		75	0	13.415	Fig.22	13.415	Fig.23	13.415	Fig.24
	2612.5	38175		75	0	13.415	Fig.25	13.415	Fig.26	13.415	Fig.27
	2580	37850	20	100	0	17.800	Fig.28	17.887	Fig.29	17.887	Fig.30
	2595	38000		100	0	17.800	Fig.31	17.887	Fig.32	17.887	Fig.33
	2610	38150		100	0	17.887	Fig.34	17.800	Fig.35	17.887	Fig.36

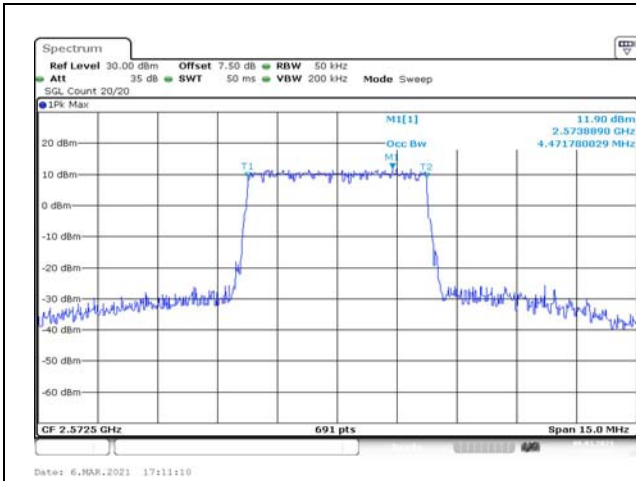


Fig.1

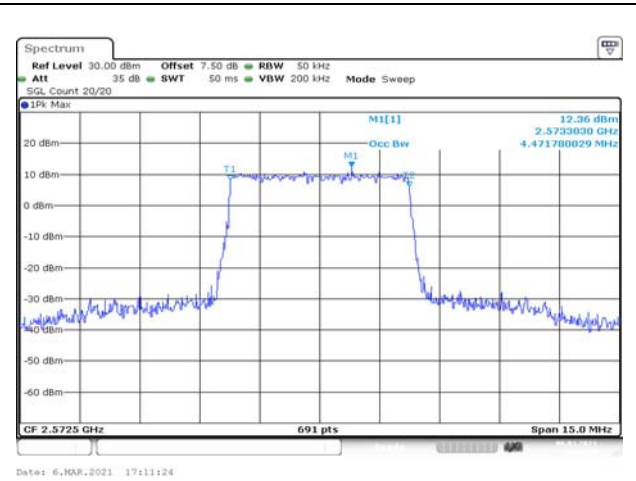


Fig.2

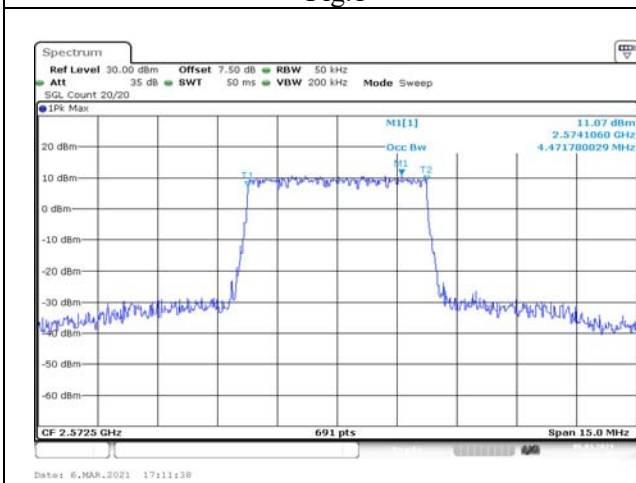


Fig.3

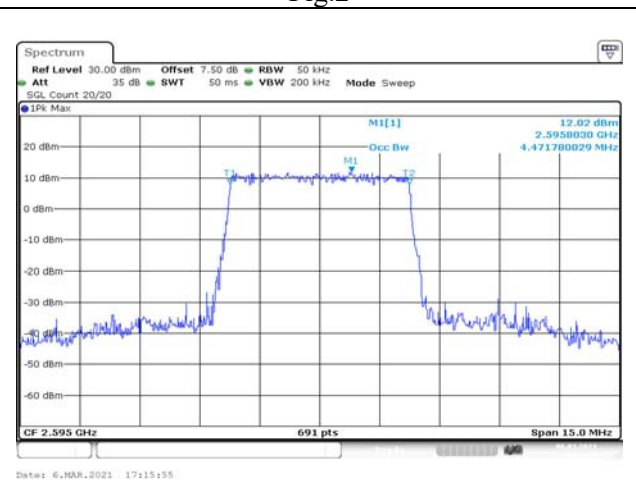


Fig.4

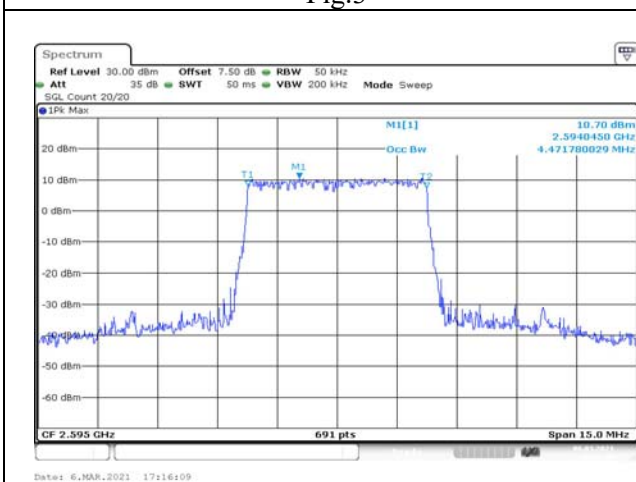


Fig.5

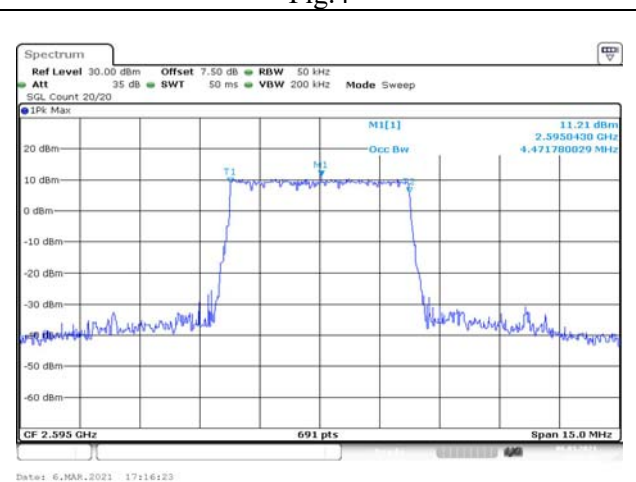
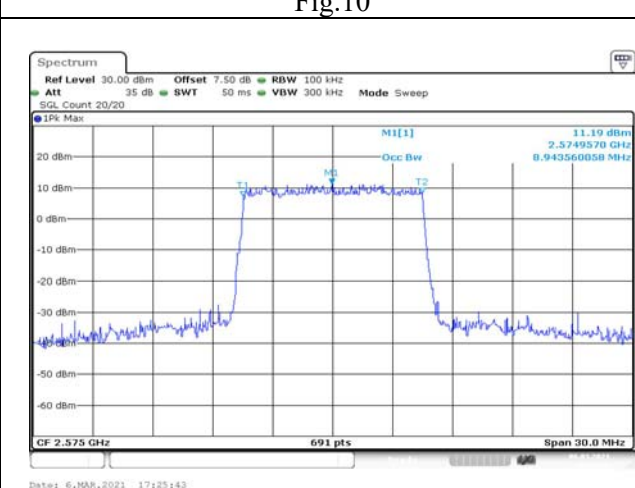
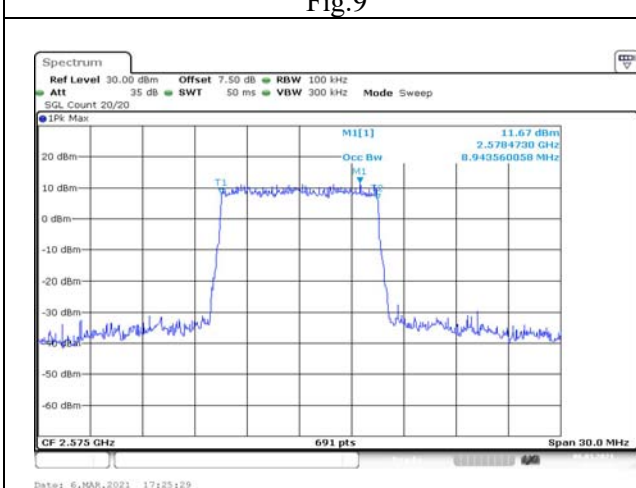
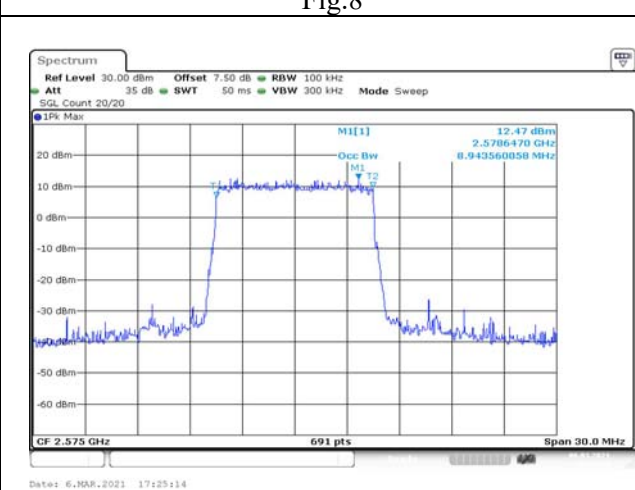
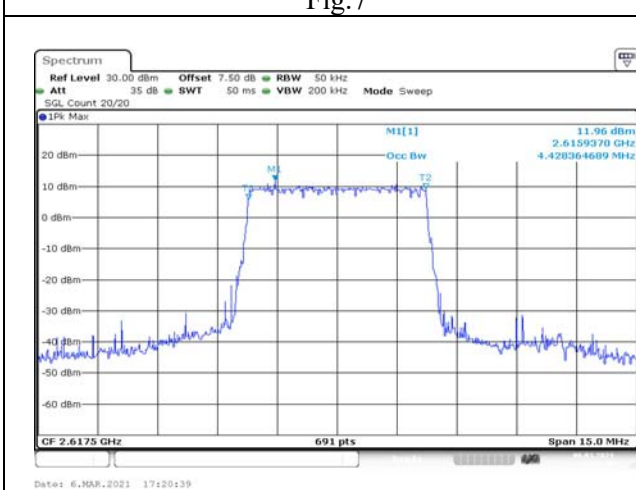
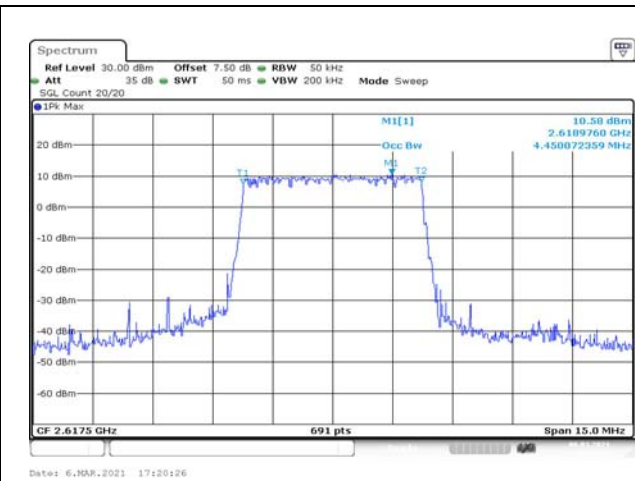
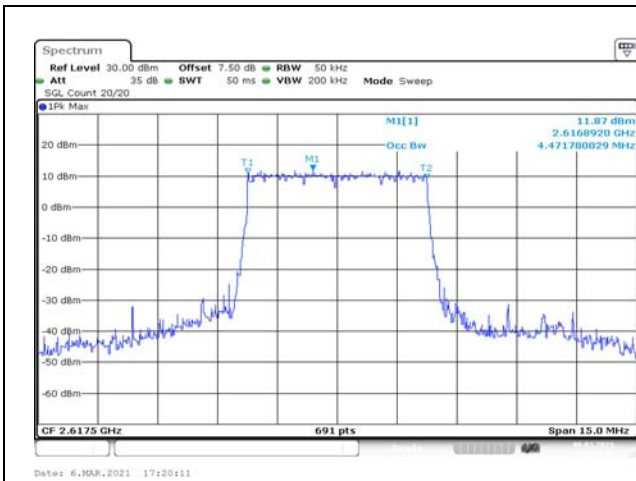
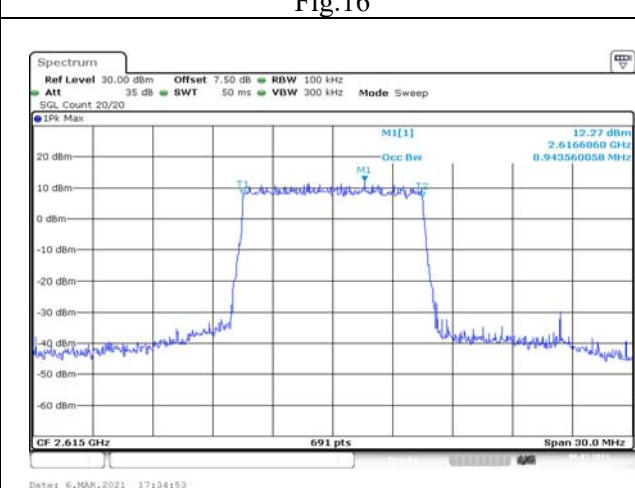
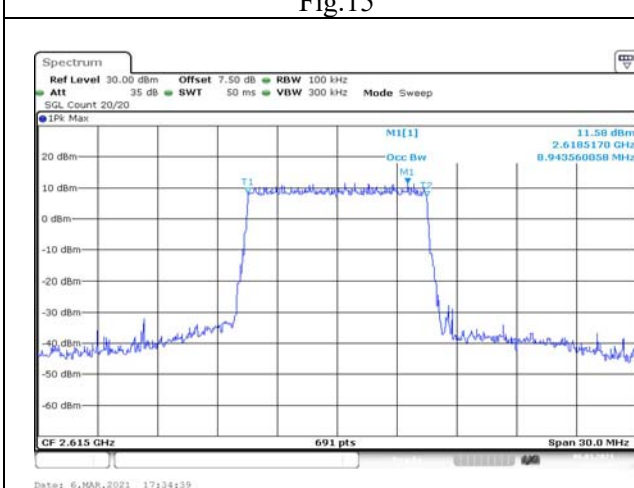
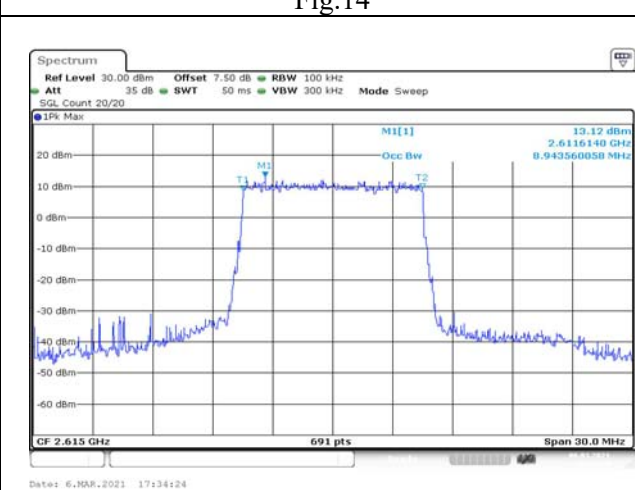
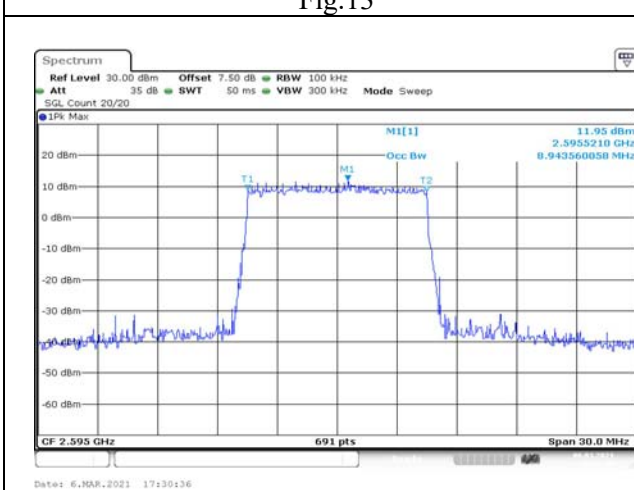
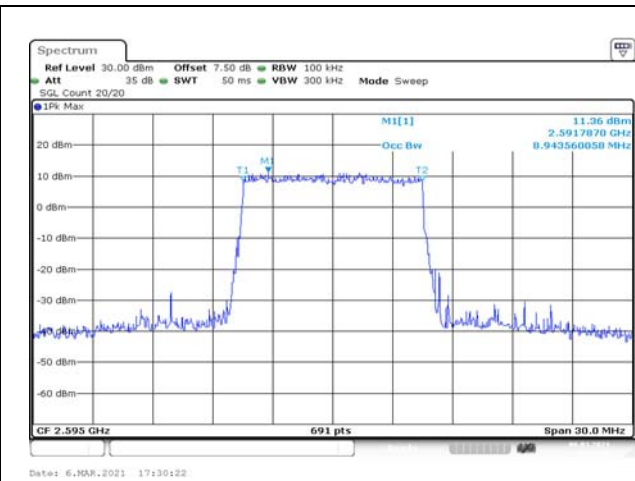
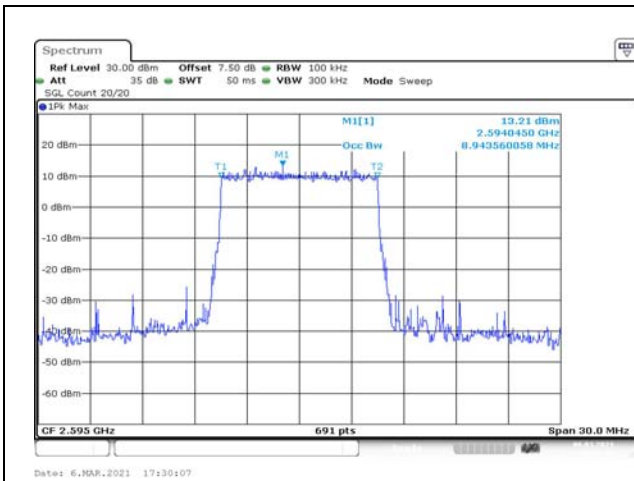
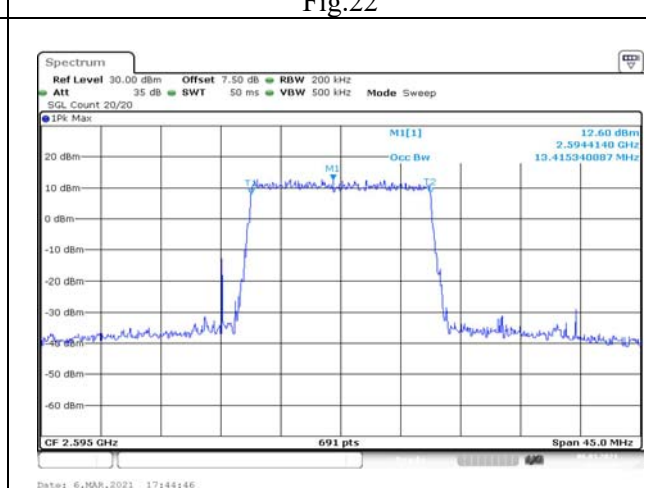
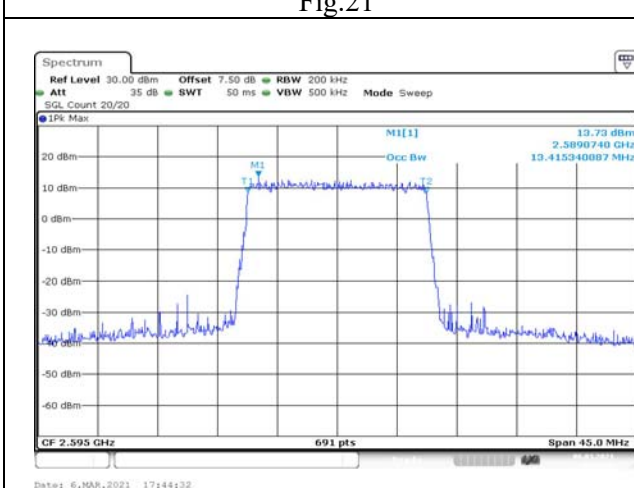
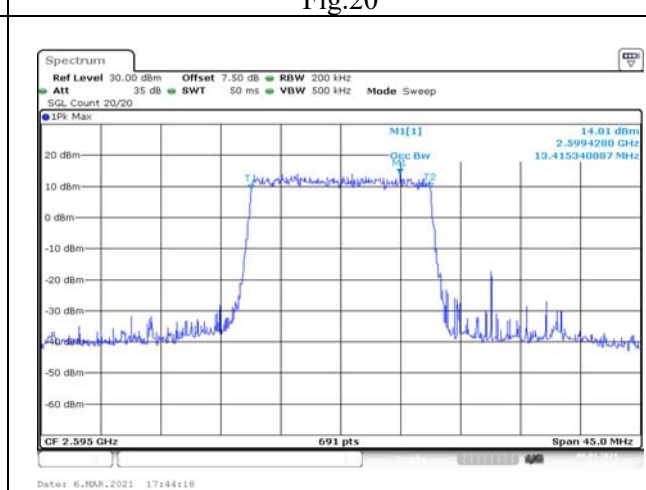
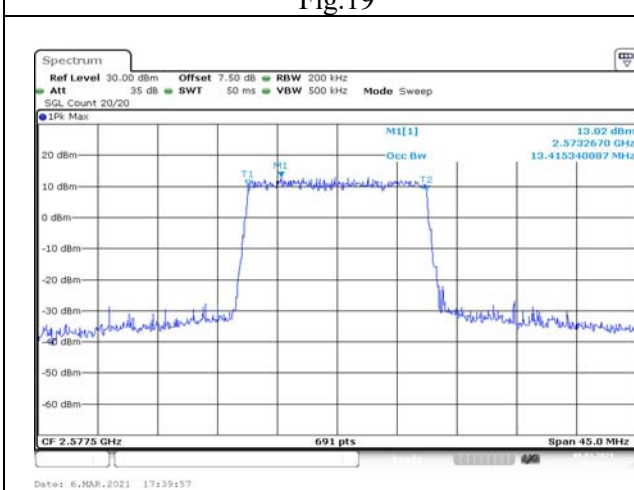
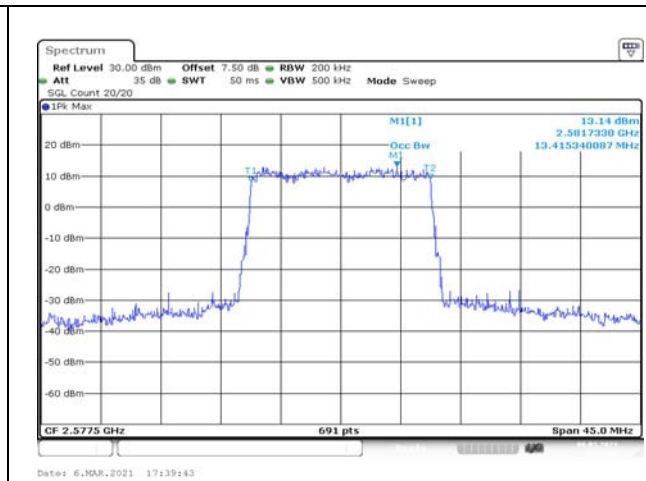
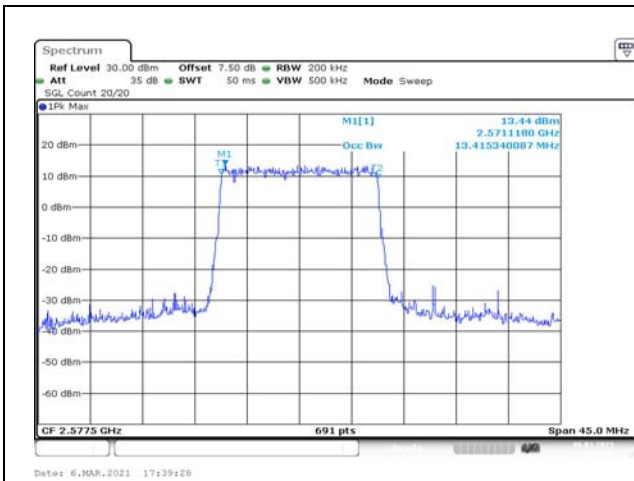
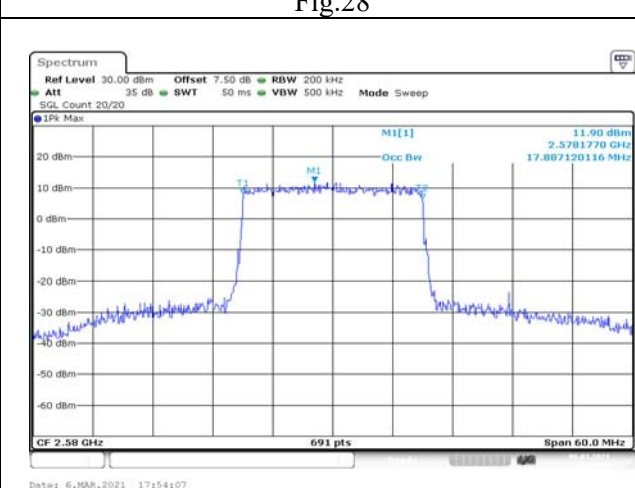
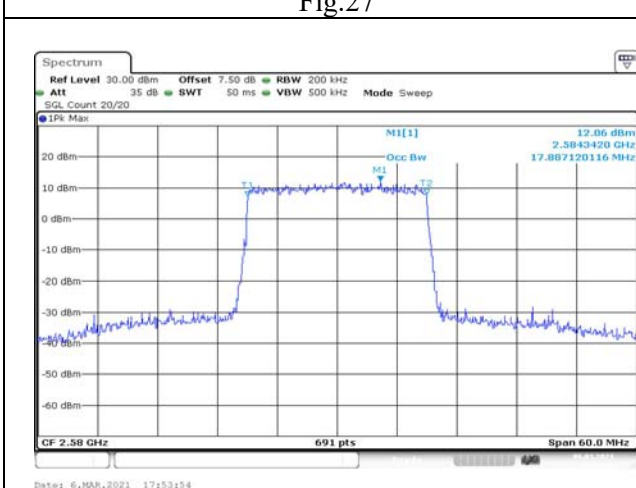
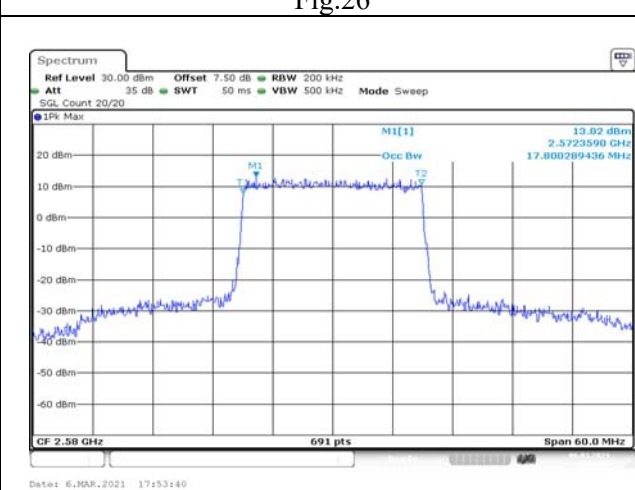
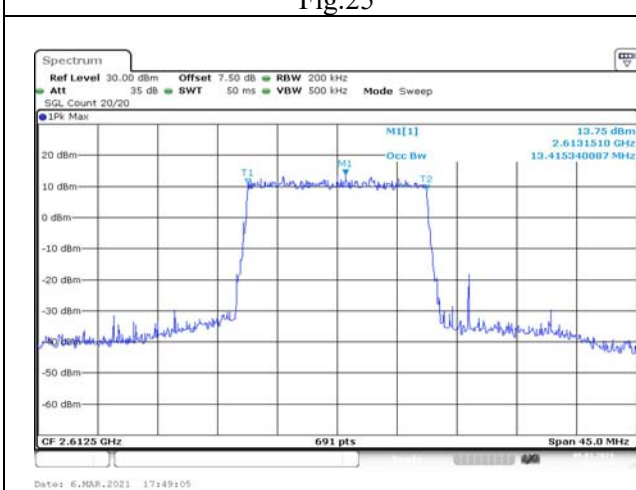
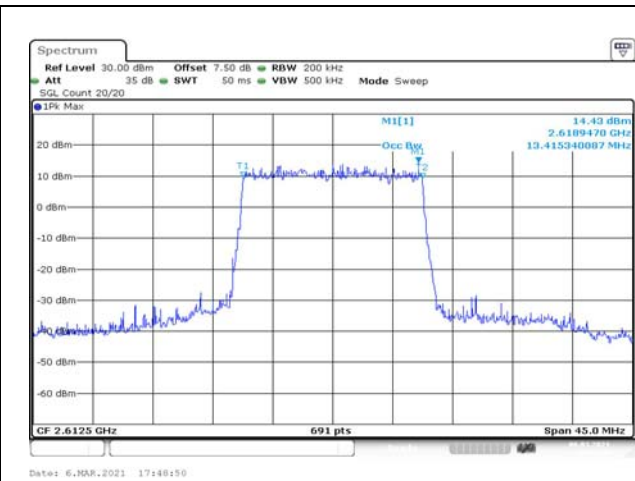
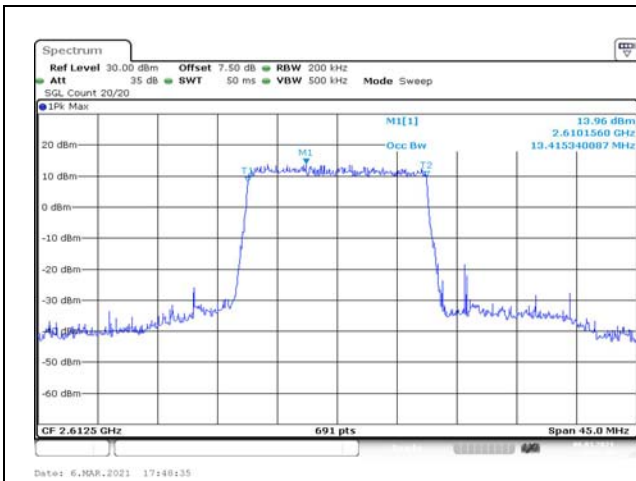


Fig.6









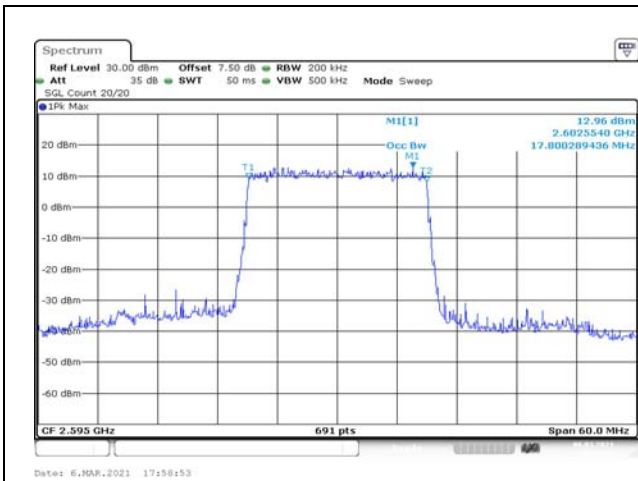


Fig.31

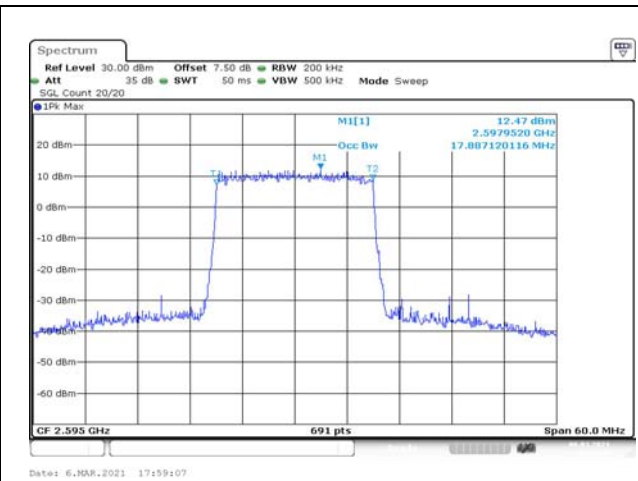


Fig.32

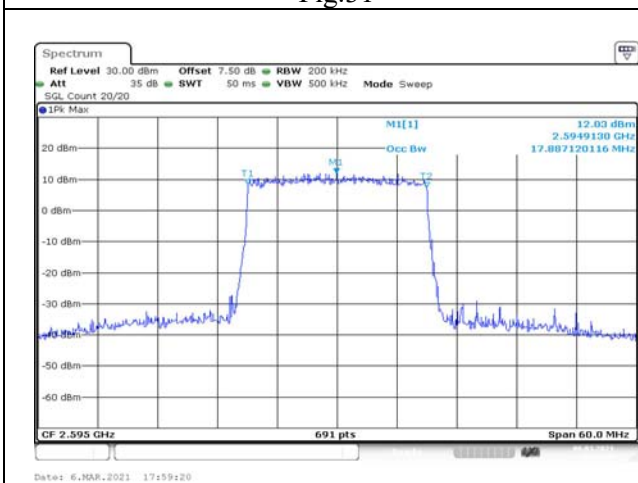


Fig.33

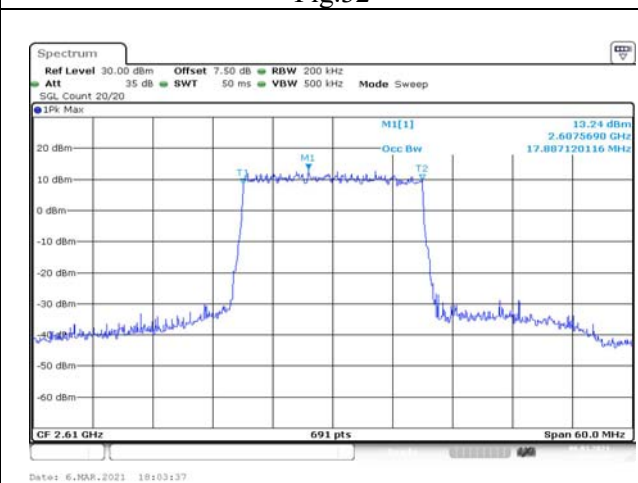


Fig.34

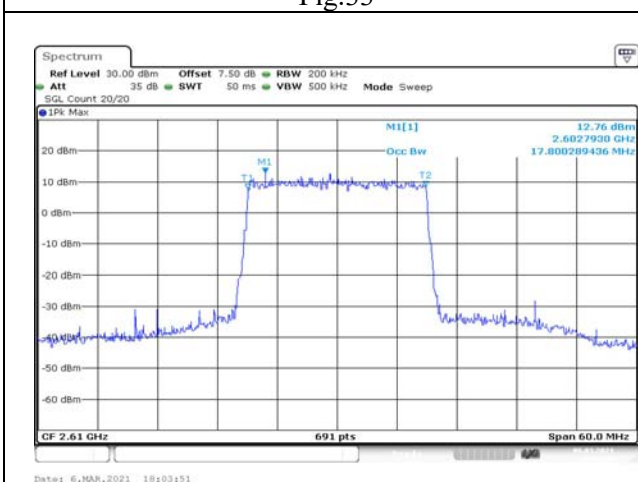


Fig.35

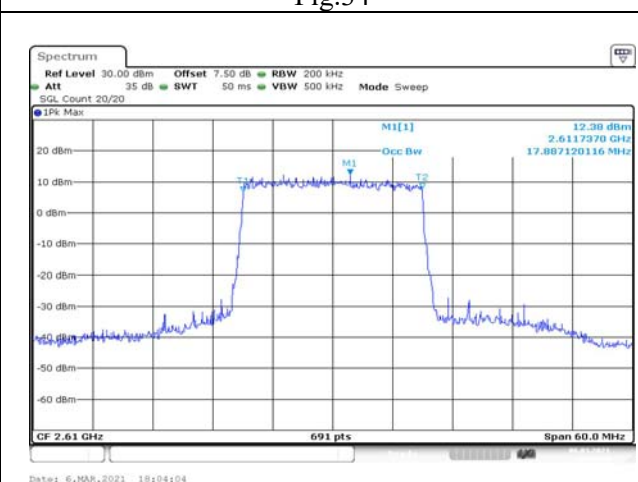


Fig.36

3 Emission Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
38	2572.5	37775	5	25	0	4.797	Fig.1	4.819	Fig.2	4.797	Fig.3
	2595	38000		25	0	4.841	Fig.4	4.819	Fig.5	4.819	Fig.6
	2617.5	38225		25	0	4.797	Fig.7	4.797	Fig.8	4.863	Fig.9
	2575	37800	10	50	0	9.551	Fig.10	9.551	Fig.11	9.638	Fig.12
	2595	38000		50	0	9.595	Fig.13	9.551	Fig.14	9.595	Fig.15
	2615	38200		50	0	9.638	Fig.16	9.508	Fig.17	9.508	Fig.18
	2577.5	37825	15	75	0	14.457	Fig.19	14.457	Fig.20	14.392	Fig.21
	2595	38000		75	0	14.327	Fig.22	14.522	Fig.23	14.392	Fig.24
	2612.5	38175		75	0	14.457	Fig.25	14.197	Fig.26	14.392	Fig.27
	2580	37850	20	100	0	19.016	Fig.28	19.016	Fig.29	19.103	Fig.30
	2595	38000		100	0	18.929	Fig.31	18.929	Fig.32	18.842	Fig.33
	2610	38150		100	0	19.016	Fig.34	19.016	Fig.35	19.016	Fig.36

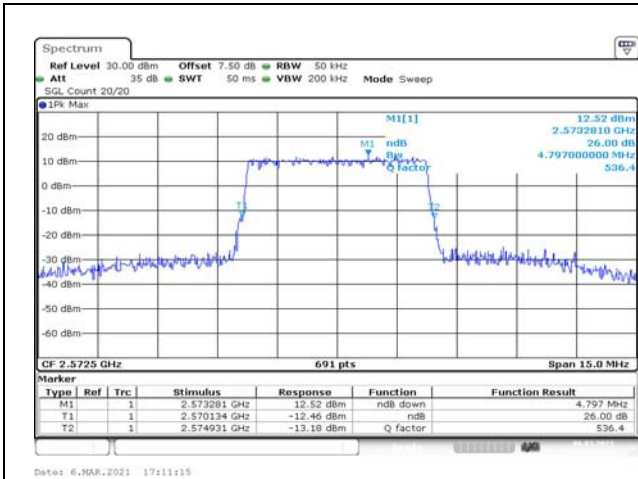


Fig.1

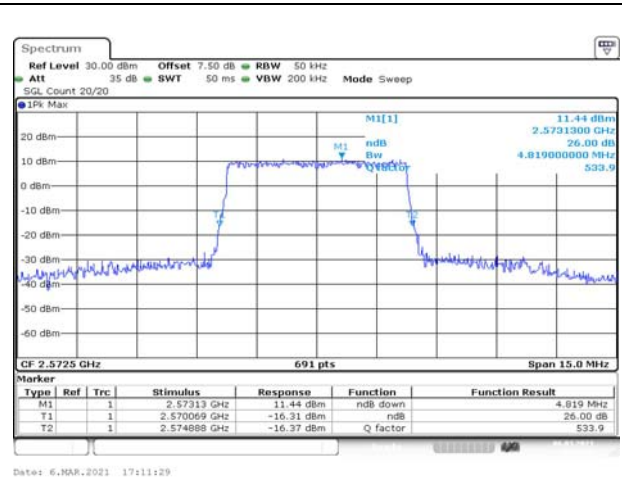


Fig.2

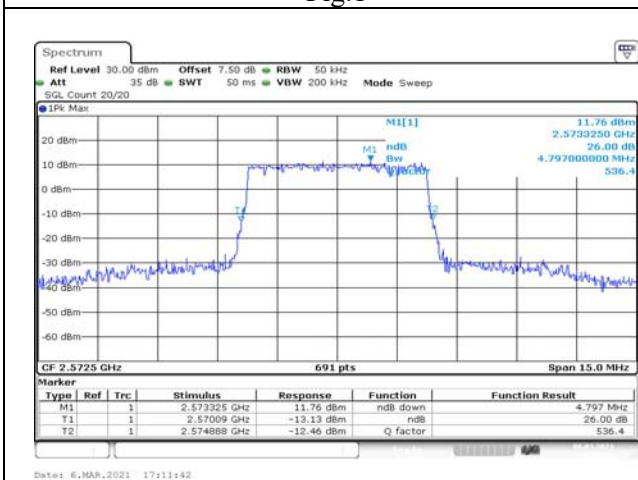


Fig.3

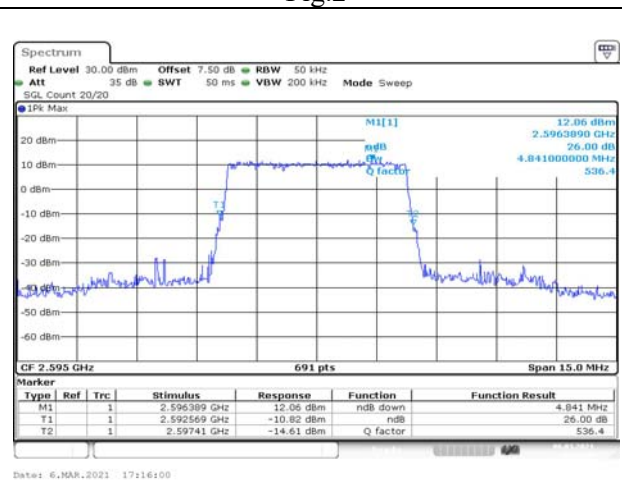


Fig.4

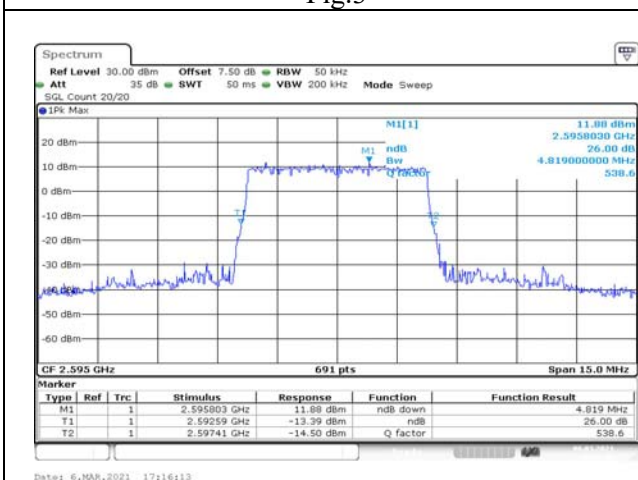


Fig.5

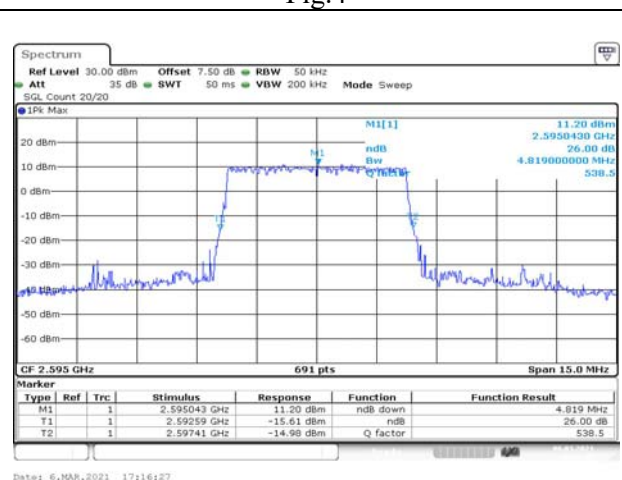


Fig.6

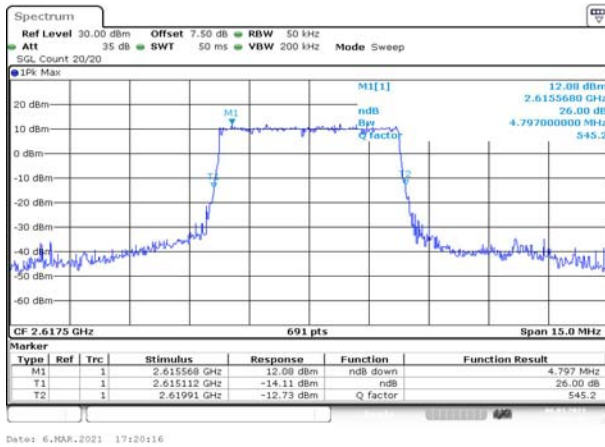


Fig.7

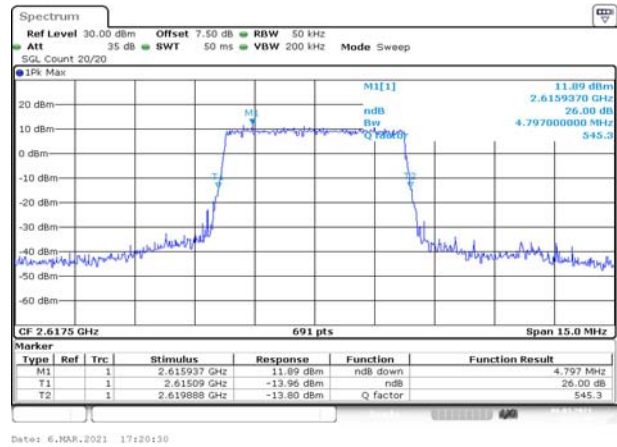


Fig.8

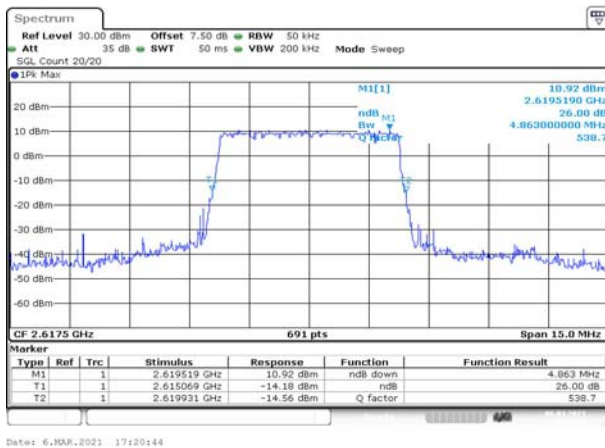


Fig.9

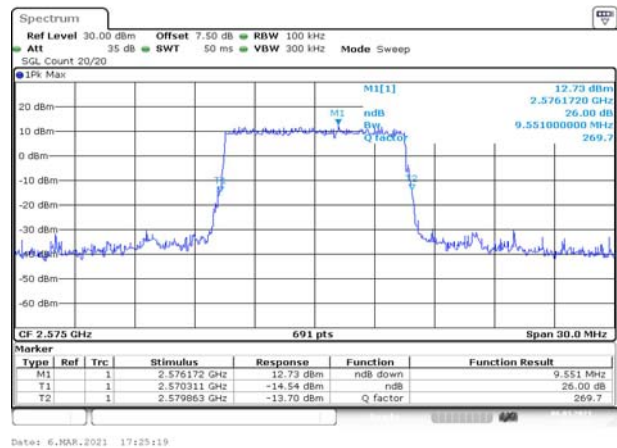


Fig.10



Fig.11

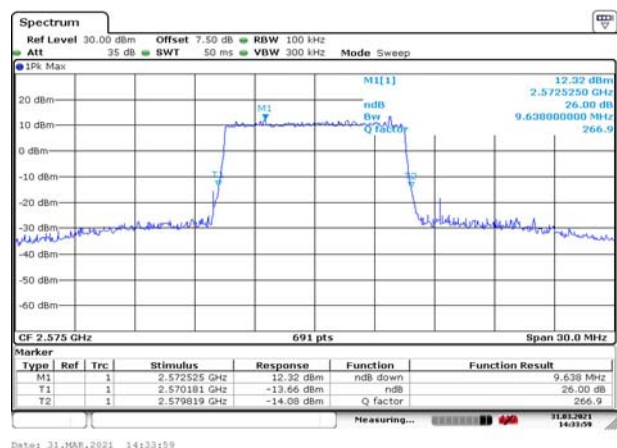


Fig.12

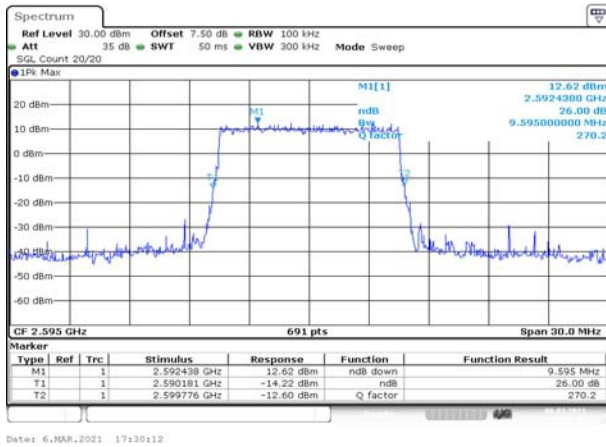


Fig.13

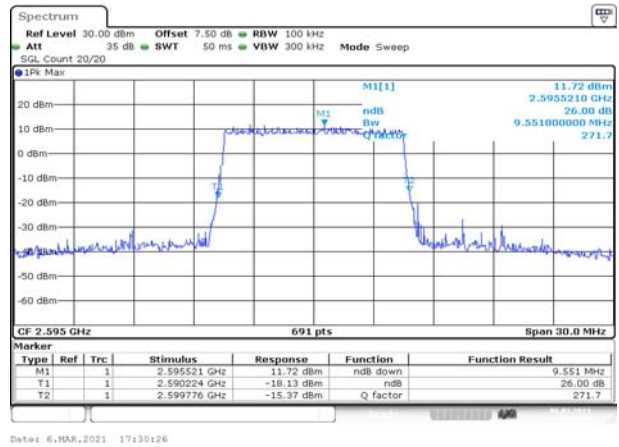


Fig.14

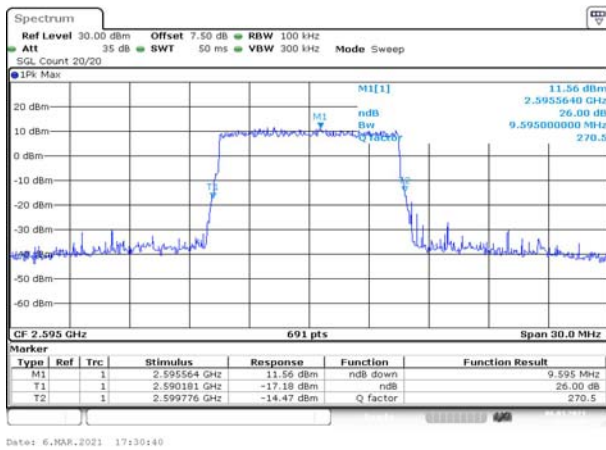


Fig.15

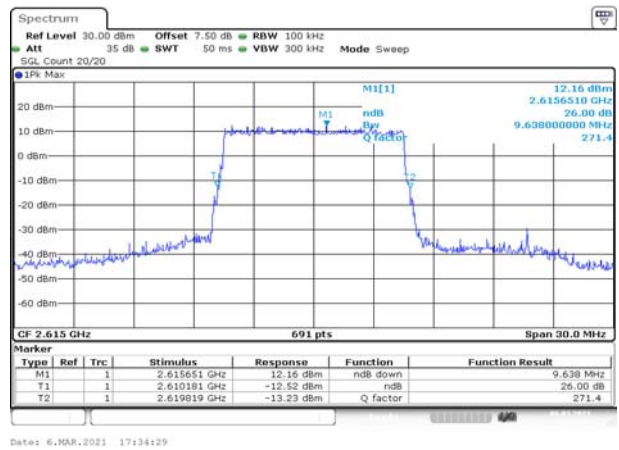


Fig.16

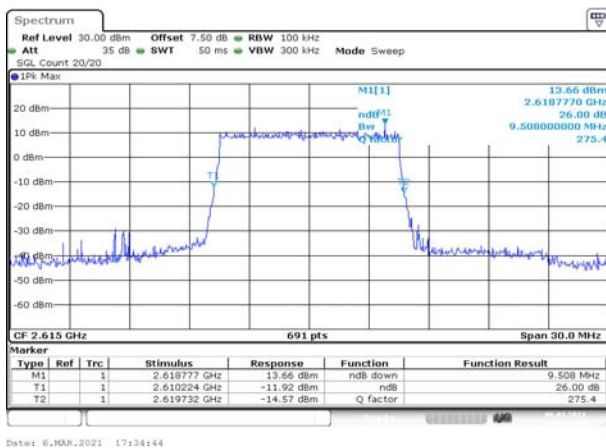


Fig.17

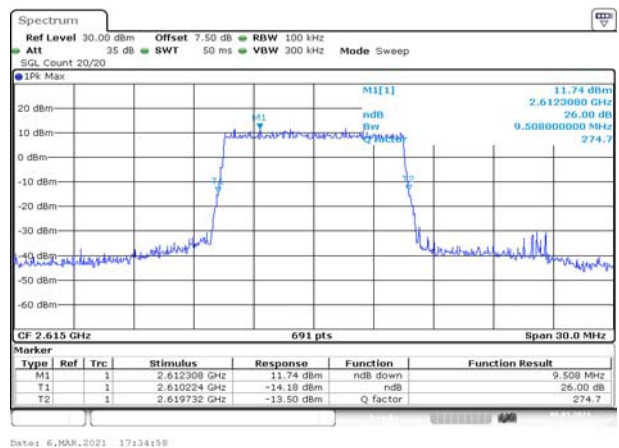


Fig.18

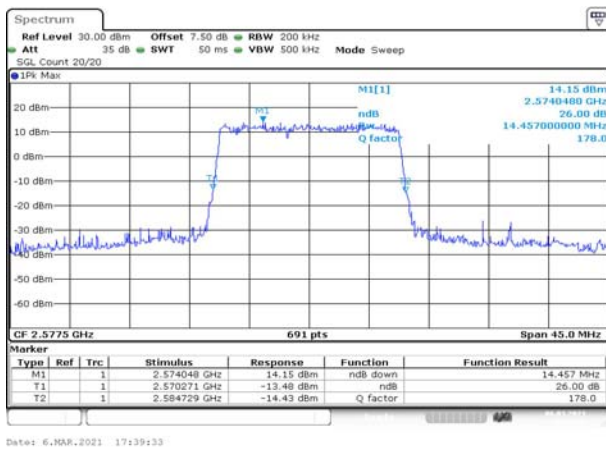


Fig.19

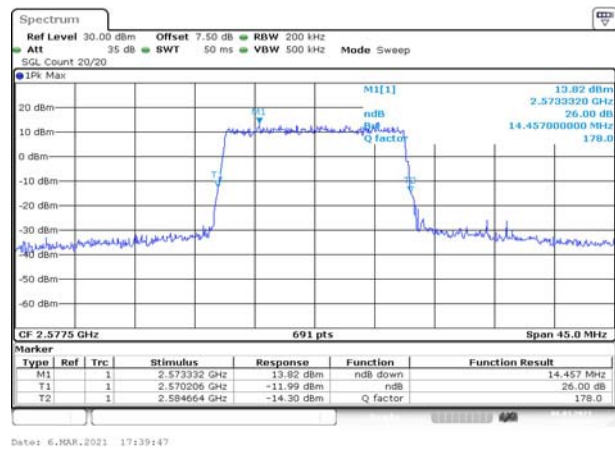


Fig.20

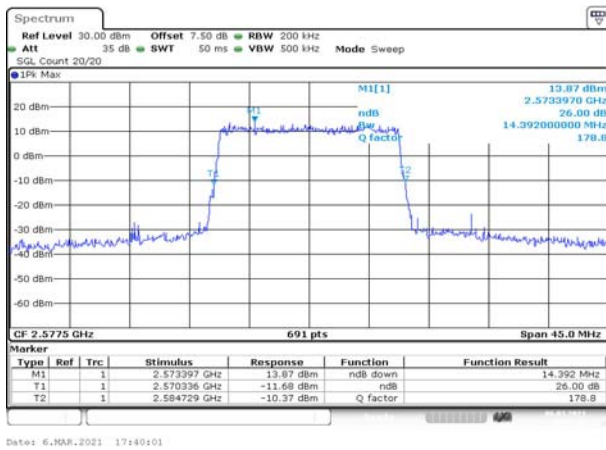


Fig.21

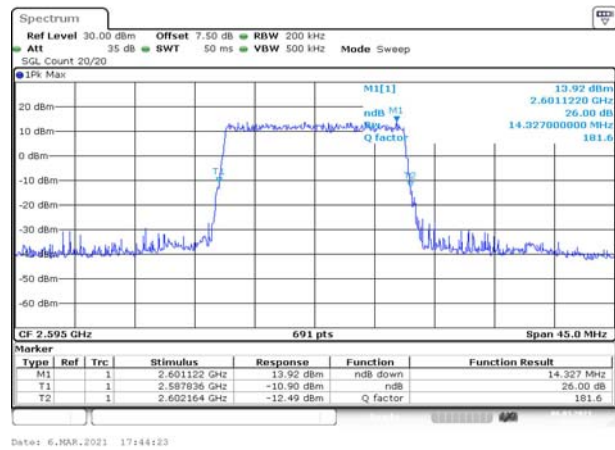


Fig.22

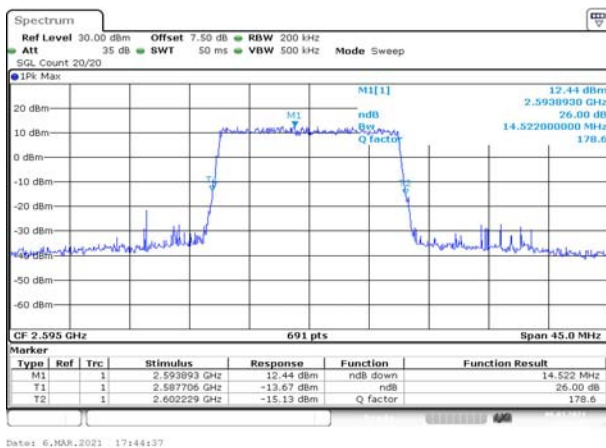


Fig.23

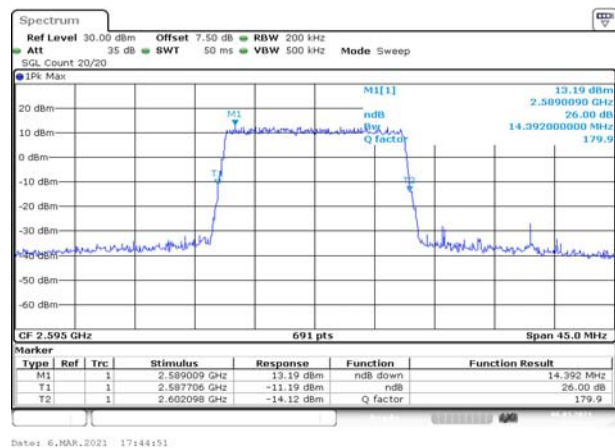


Fig.24

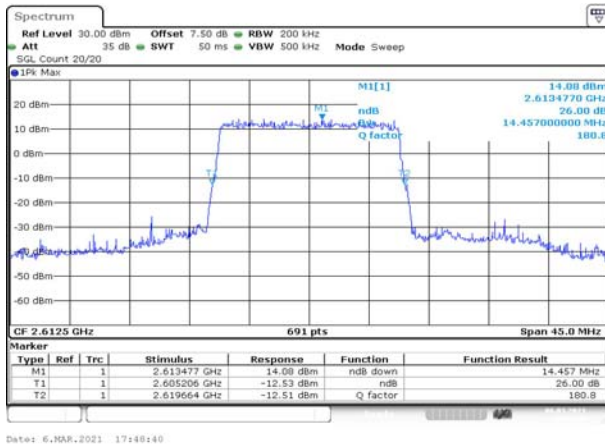


Fig.25

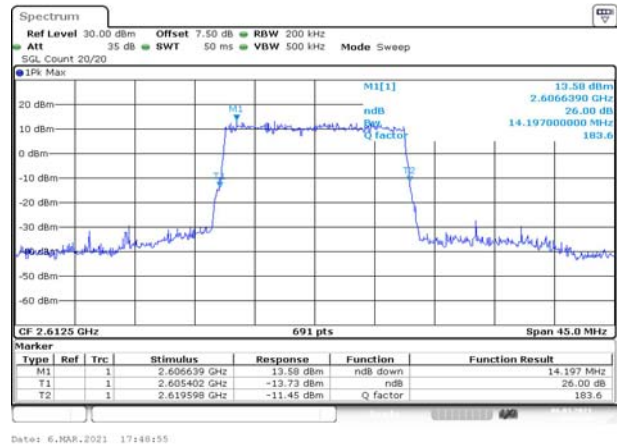


Fig.26

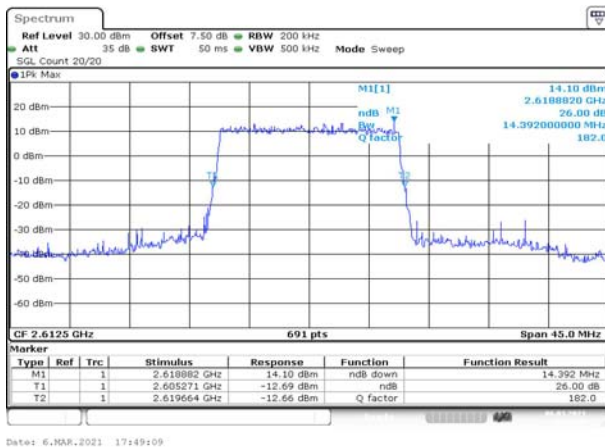


Fig.27

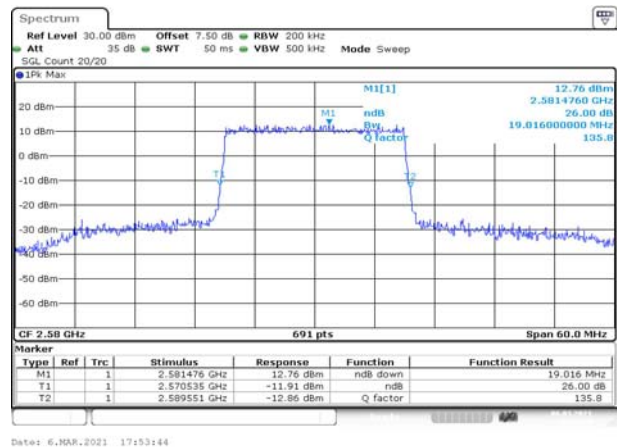


Fig.28

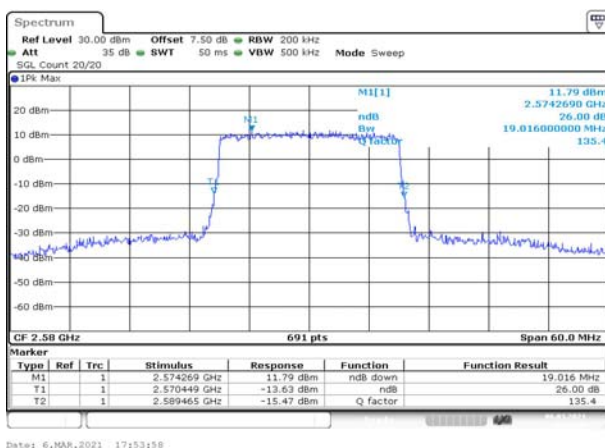


Fig.29

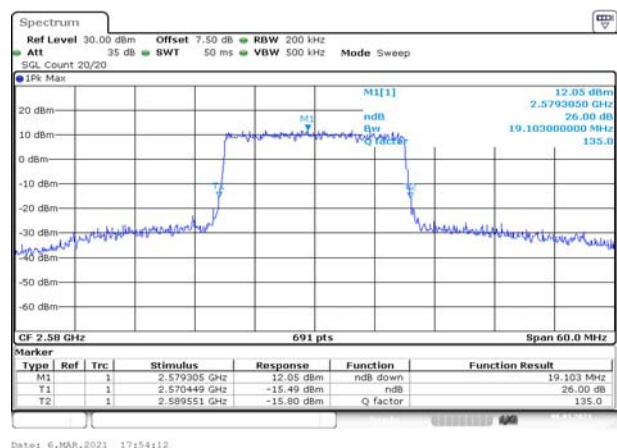


Fig.30

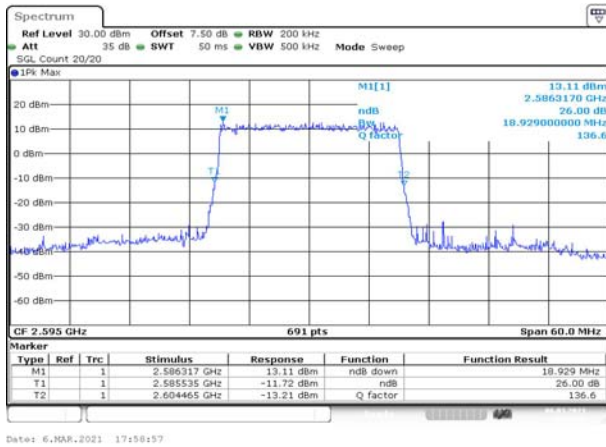


Fig.31

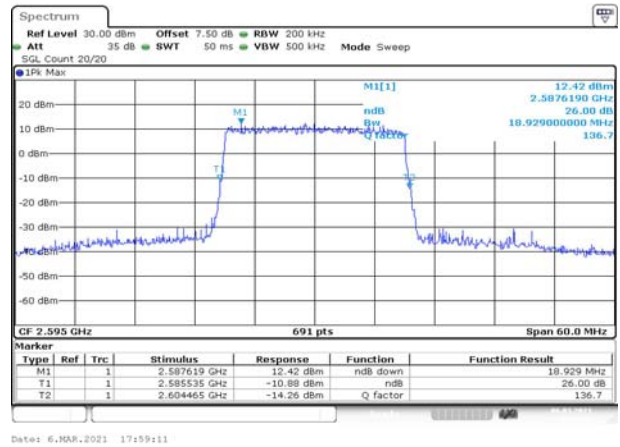


Fig.32

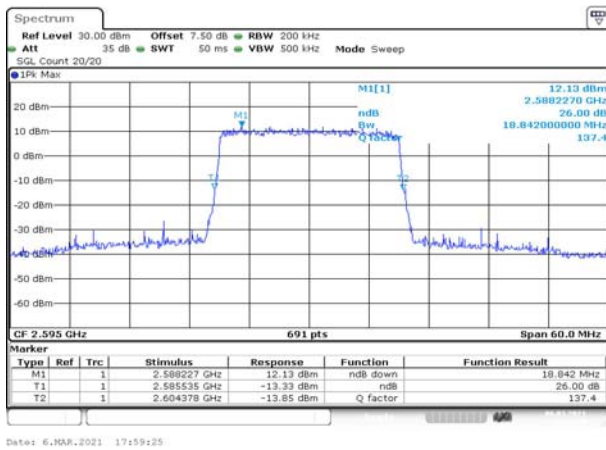


Fig.33

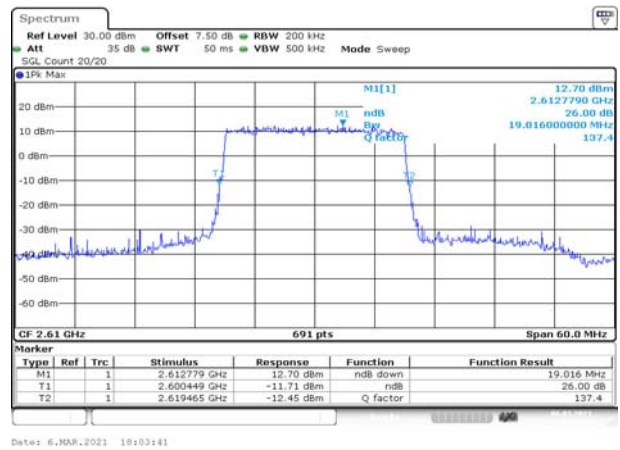


Fig.34

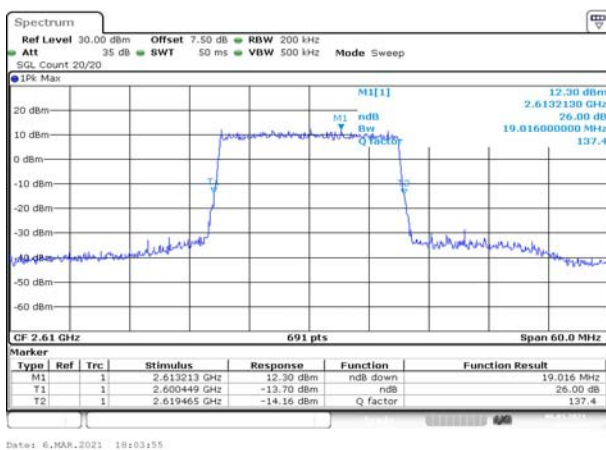


Fig.35

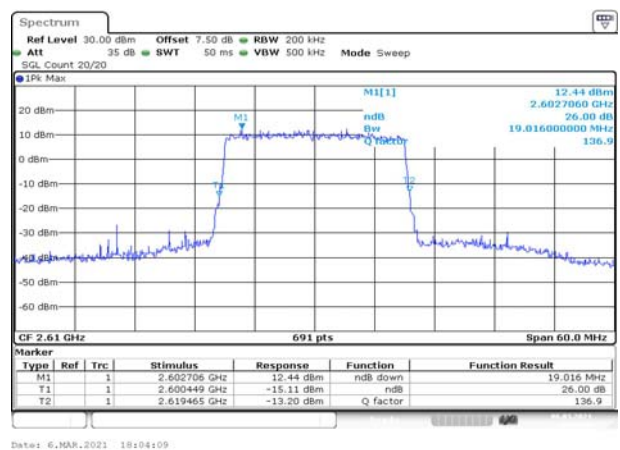


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
38	2572.5	37775	5	1	24	Fig.1	Fig.2	Fig.3
	2572.5	37775		25	0	Fig.4	Fig.5	Fig.6
	2595	38000		1	24	Fig.7	Fig.8	Fig.9
	2595	38000		25	0	Fig.10	Fig.11	Fig.12
	2617.5	38225		1	24	Fig.13	Fig.14	Fig.15
	2617.5	38225		25	0	Fig.16	Fig.17	Fig.18
	2575	37800	10	1	49	Fig.19	Fig.20	Fig.21
	2575	37800		50	0	Fig.22	Fig.23	Fig.24
	2595	38000		1	49	Fig.25	Fig.26	Fig.27
	2595	38000		50	0	Fig.28	Fig.29	Fig.30
	2615	38200		1	49	Fig.31	Fig.32	Fig.33
	2615	38200		50	0	Fig.34	Fig.35	Fig.36
	2577.5	37825	15	1	74	Fig.37	Fig.38	Fig.39
	2577.5	37825		75	0	Fig.40	Fig.41	Fig.42
	2595	38000		1	74	Fig.43	Fig.44	Fig.45
	2595	38000		75	0	Fig.46	Fig.47	Fig.48
	2612.5	38175		1	74	Fig.49	Fig.50	Fig.51
	2612.5	38175		75	0	Fig.52	Fig.53	Fig.54
	2580	37850	20	1	99	Fig.55	Fig.56	Fig.57
	2580	37850		100	0	Fig.58	Fig.59	Fig.60
	2595	38000		1	99	Fig.61	Fig.62	Fig.63
	2595	38000		100	0	Fig.64	Fig.65	Fig.66
	2610	38150		1	99	Fig.67	Fig.68	Fig.69
	2610	38150		100	0	Fig.70	Fig.71	Fig.72

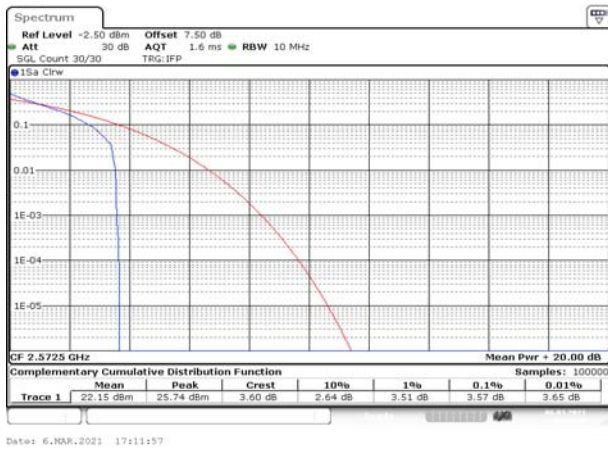


Fig.1

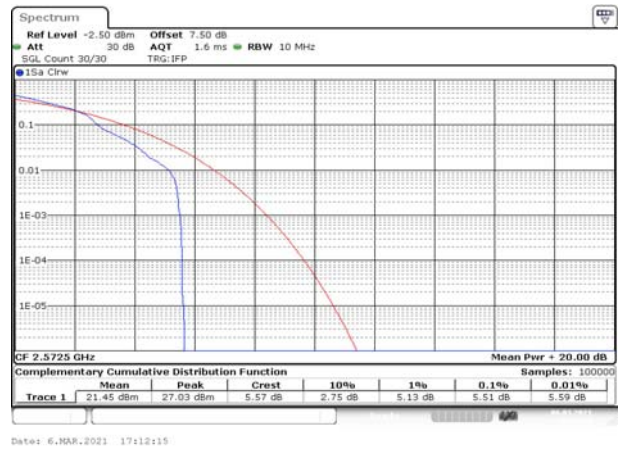


Fig.2

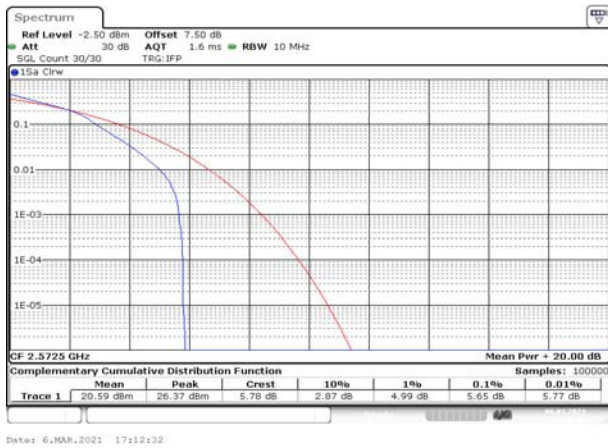


Fig.3

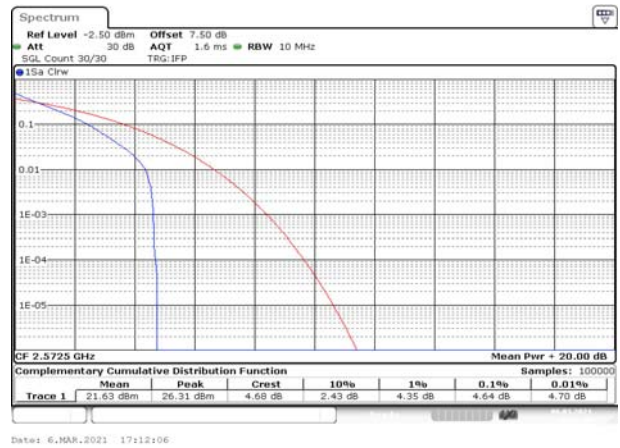


Fig.4

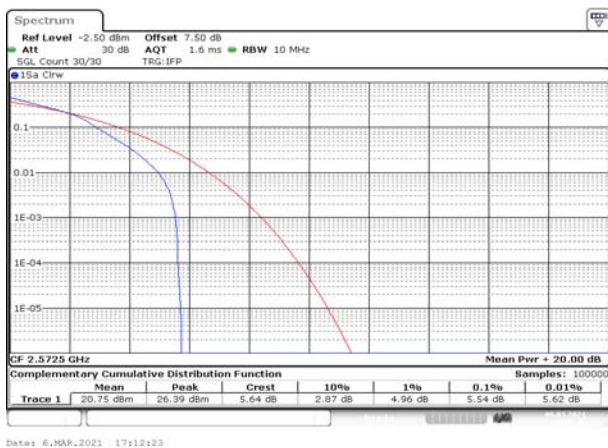


Fig.5

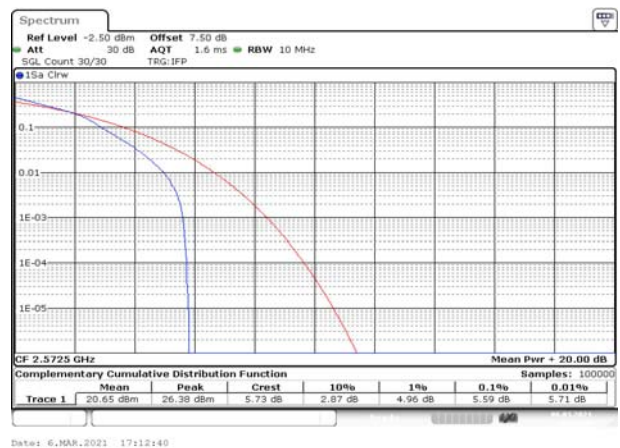


Fig.6

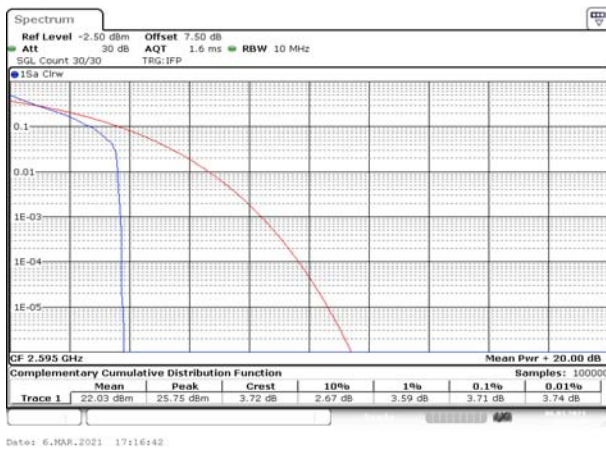


Fig.7

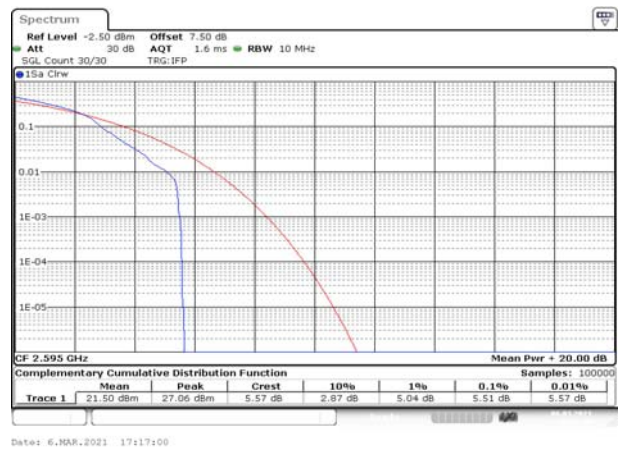


Fig.8

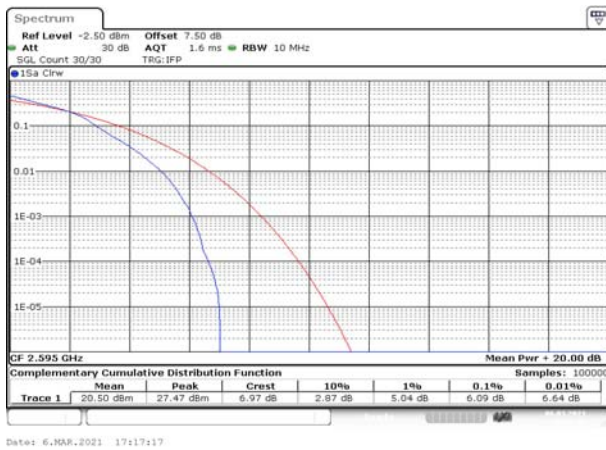


Fig.9

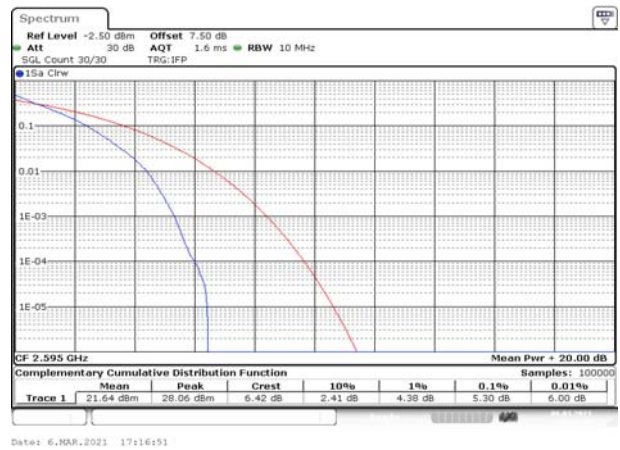


Fig.10

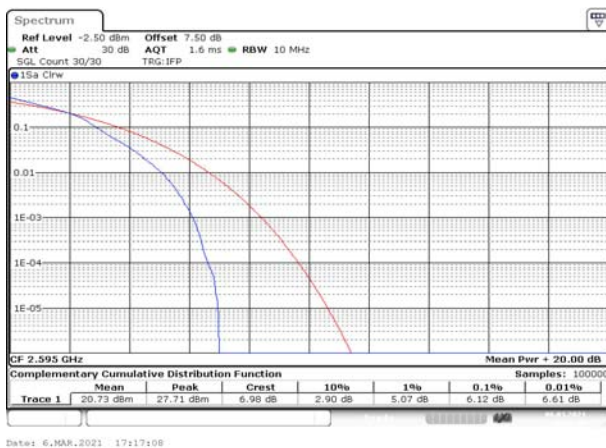


Fig.11

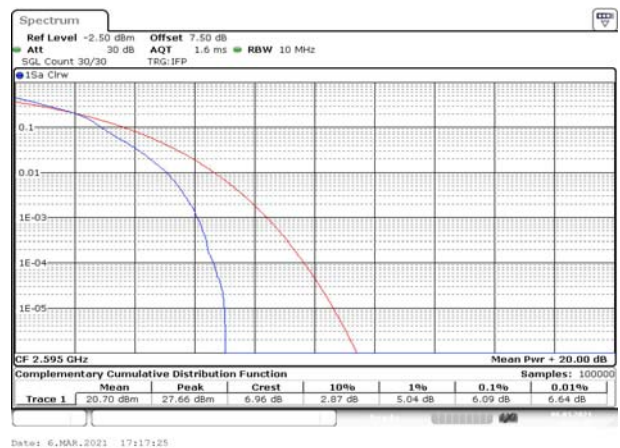


Fig.12

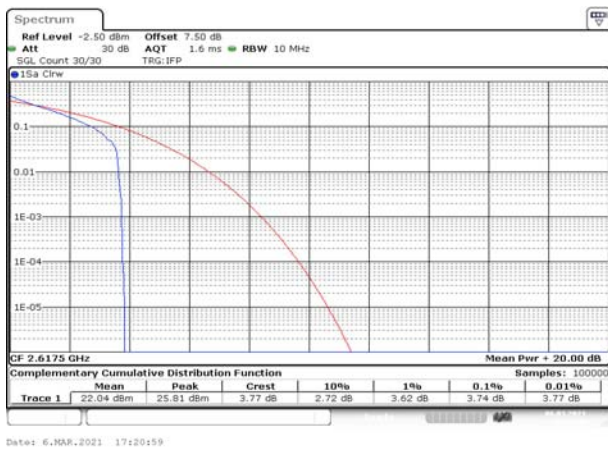


Fig.13

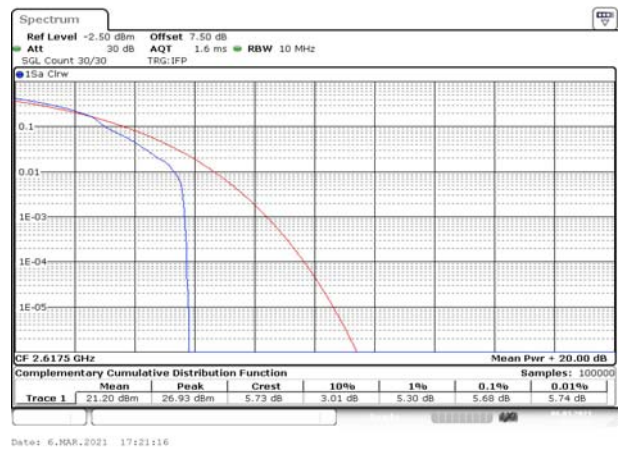


Fig.14

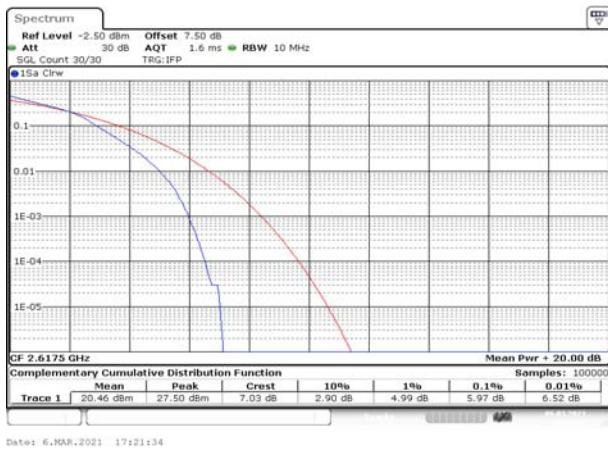


Fig.15

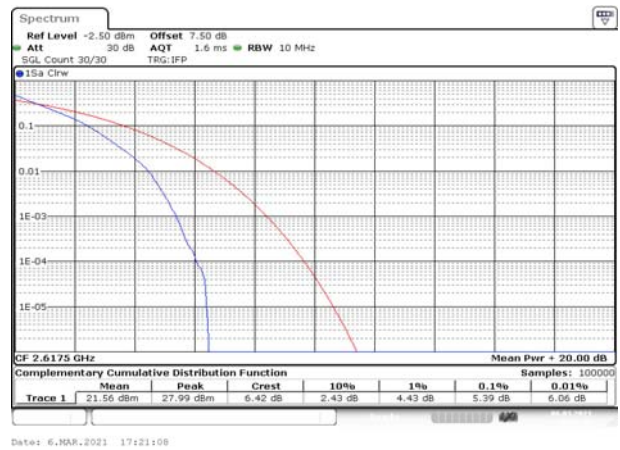


Fig.16

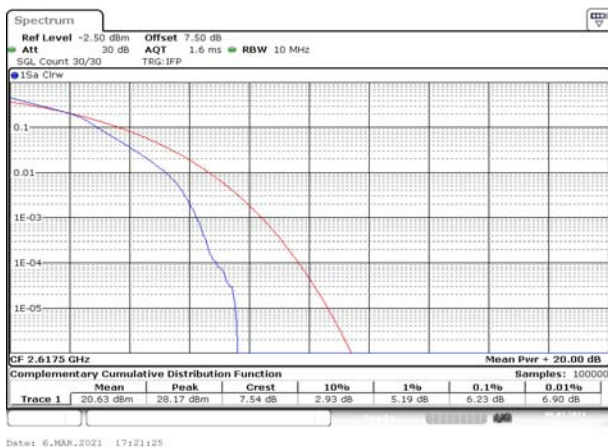


Fig.17

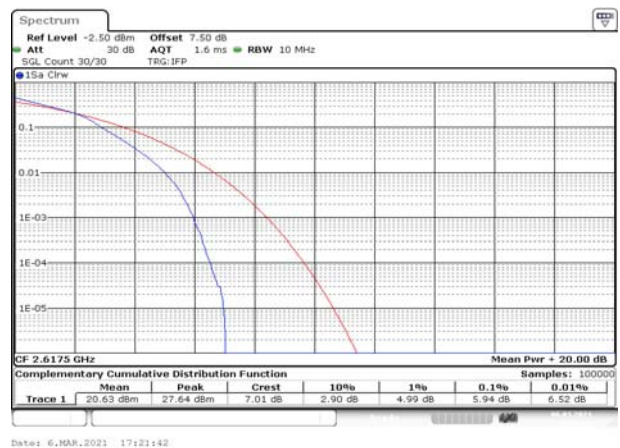


Fig.18

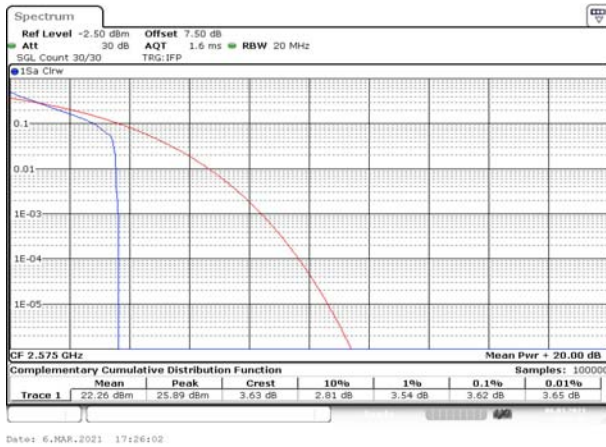


Fig.19

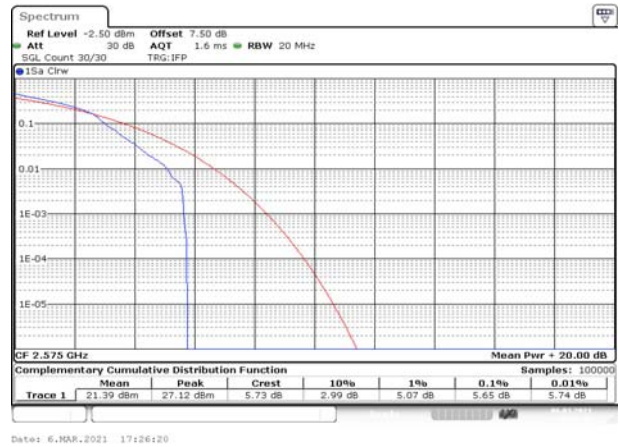


Fig.20

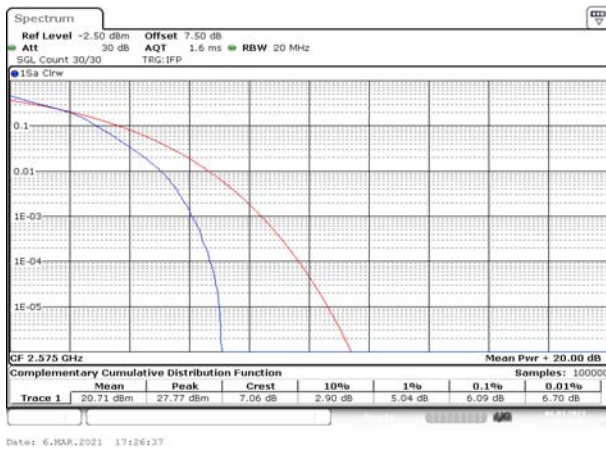


Fig.21

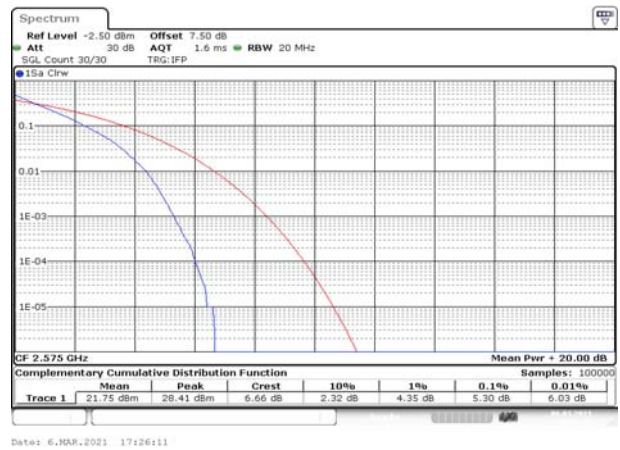


Fig.22

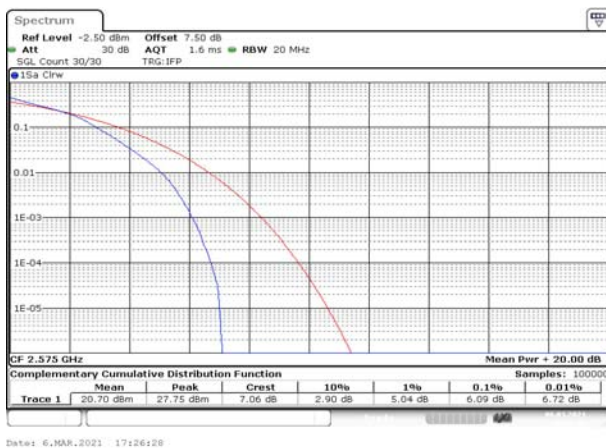


Fig.23

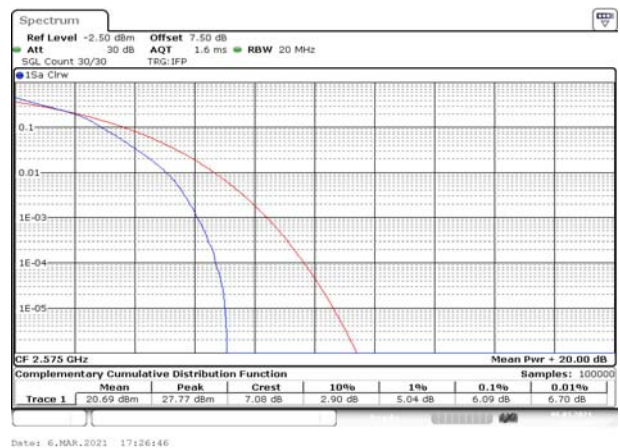


Fig.24

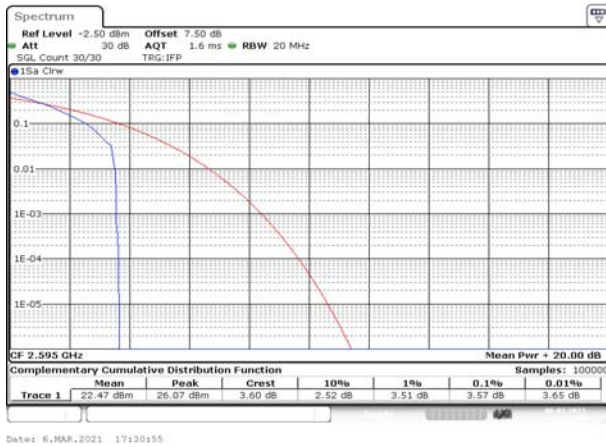


Fig.25

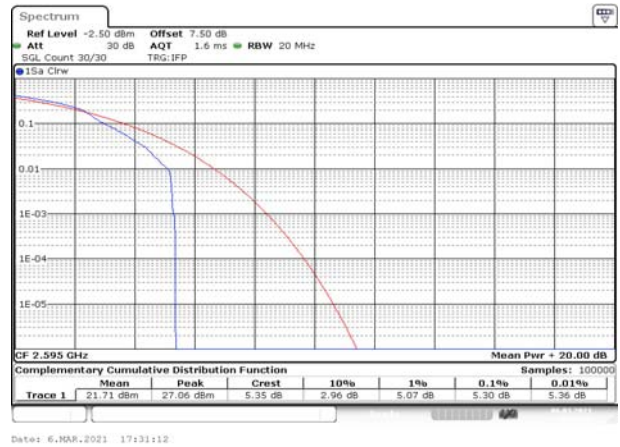


Fig.26

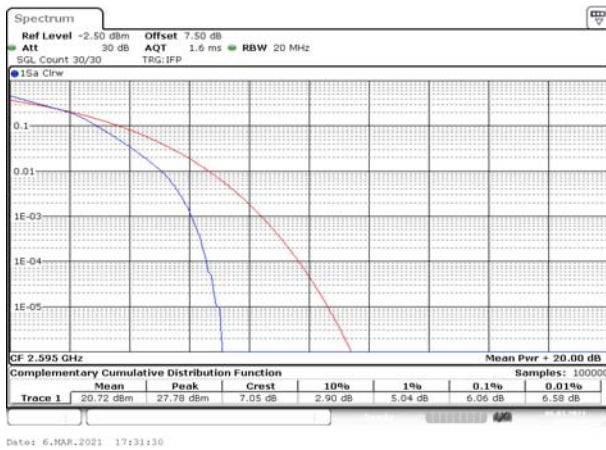


Fig.27

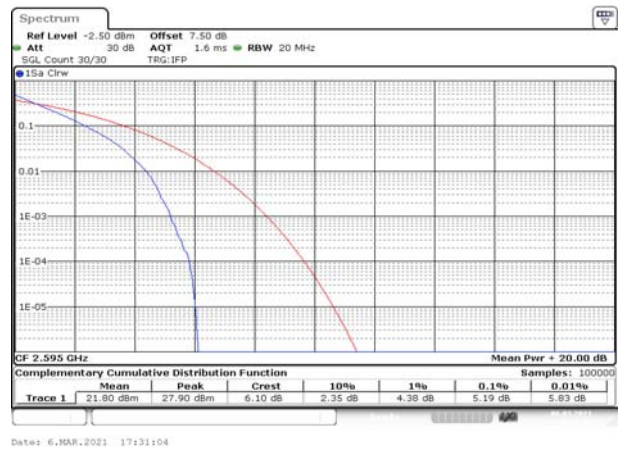


Fig.28

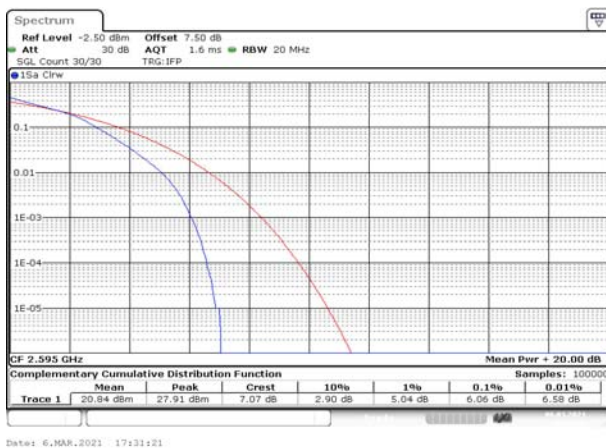


Fig.29

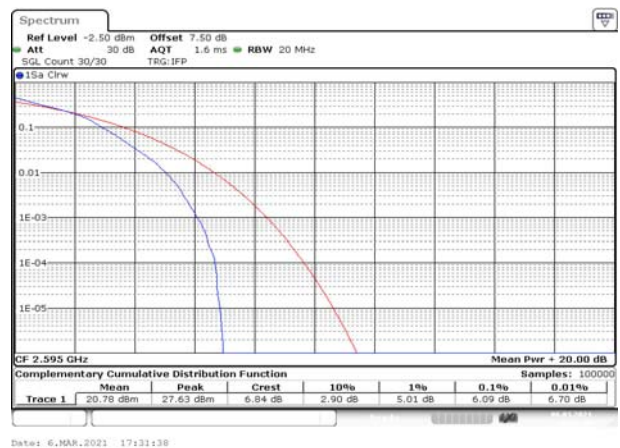


Fig.30

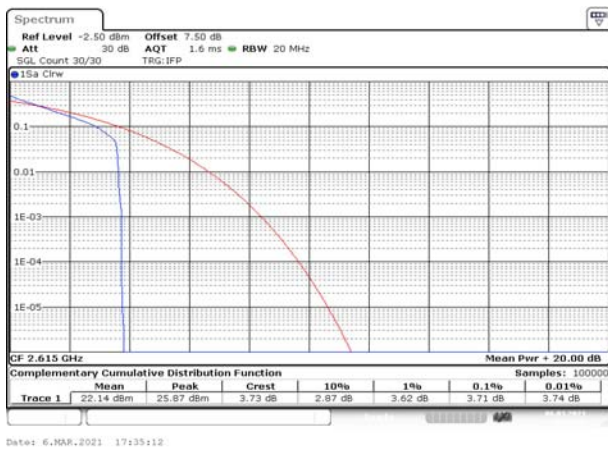


Fig.31

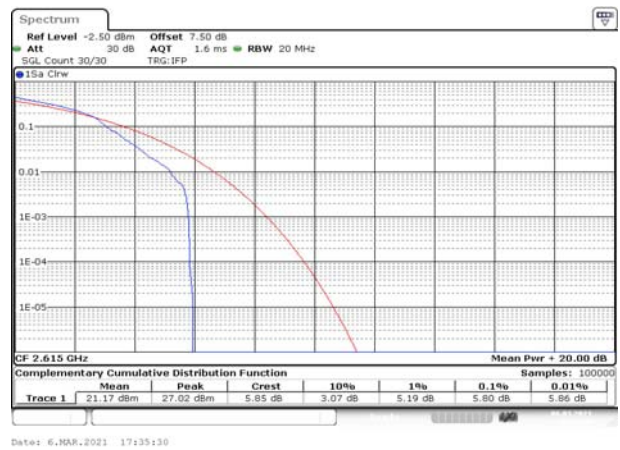


Fig.32

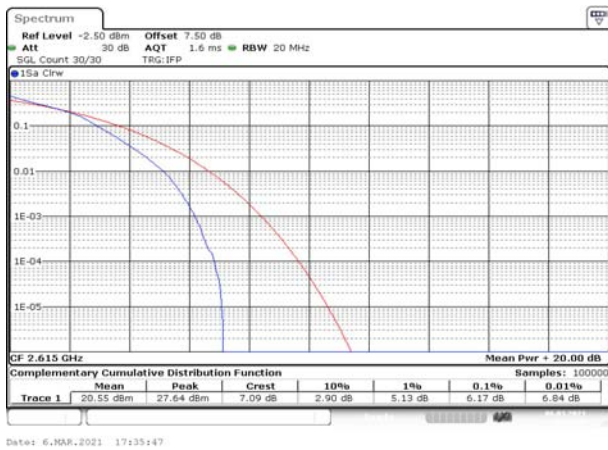


Fig.33

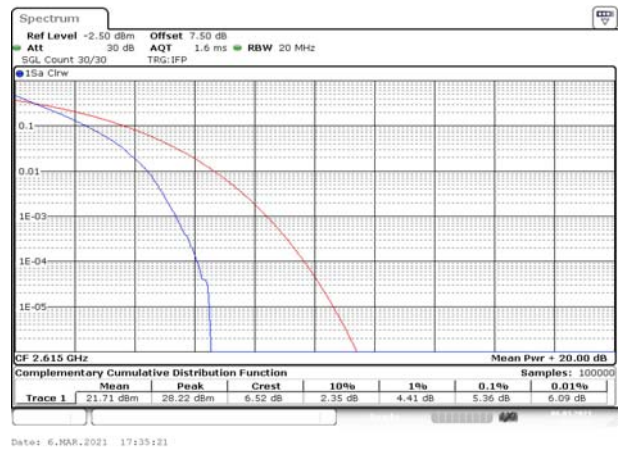


Fig.34

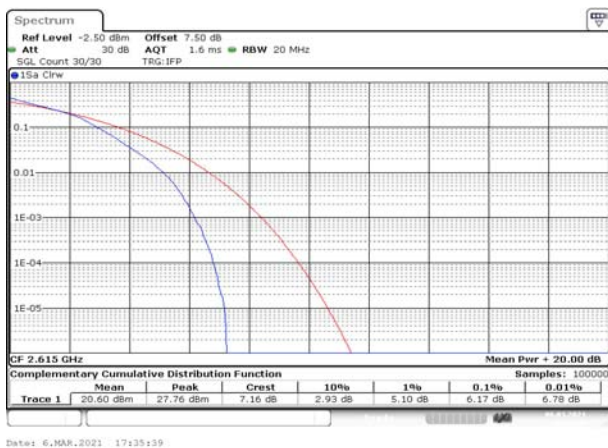


Fig.35

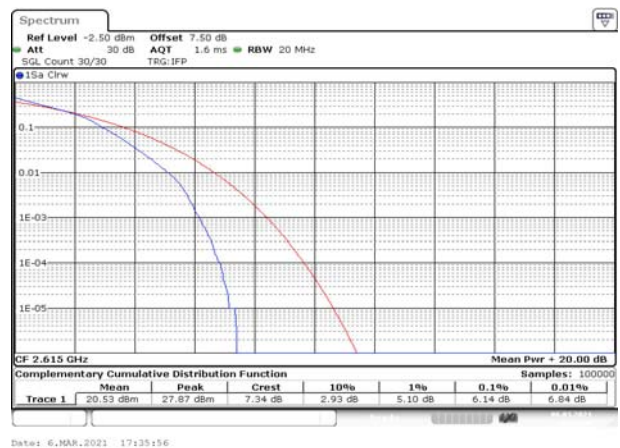


Fig.36

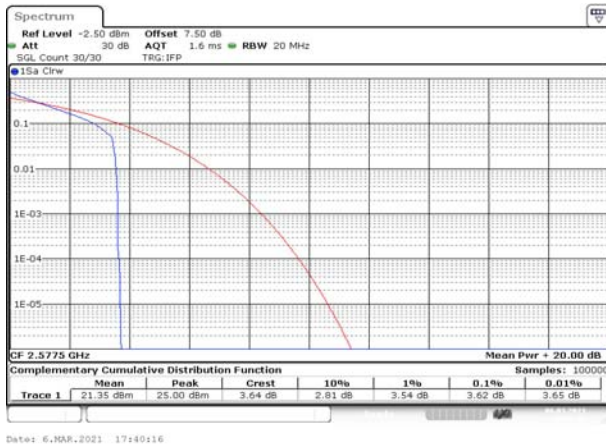


Fig.37

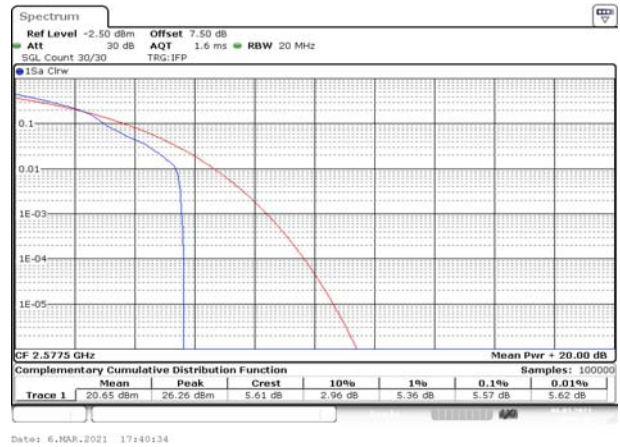


Fig.38

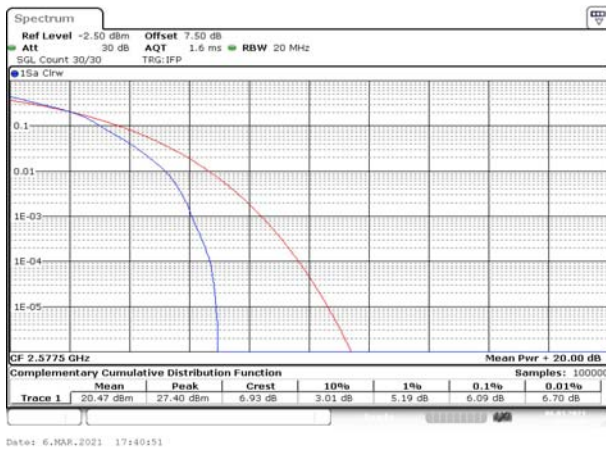


Fig.39

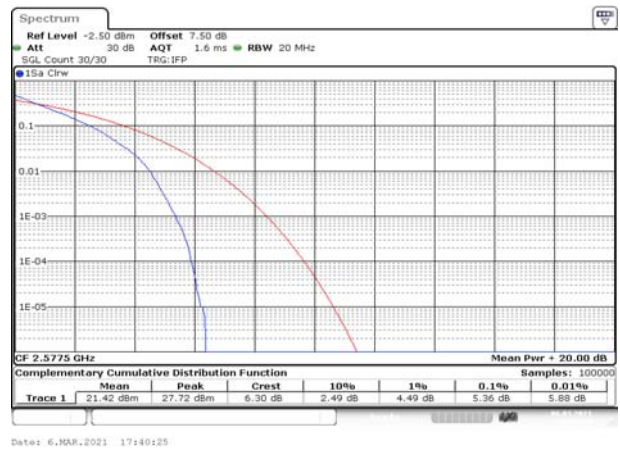


Fig.40

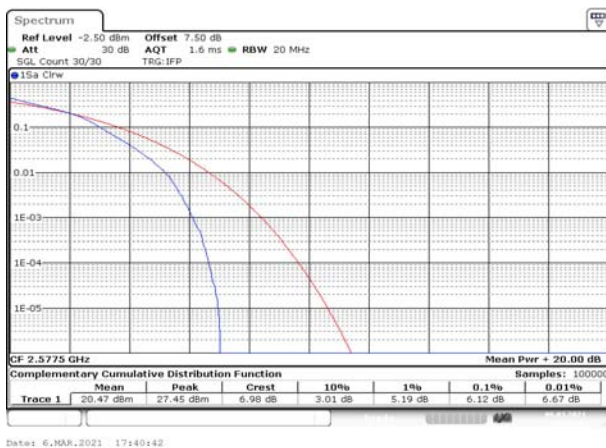


Fig.41

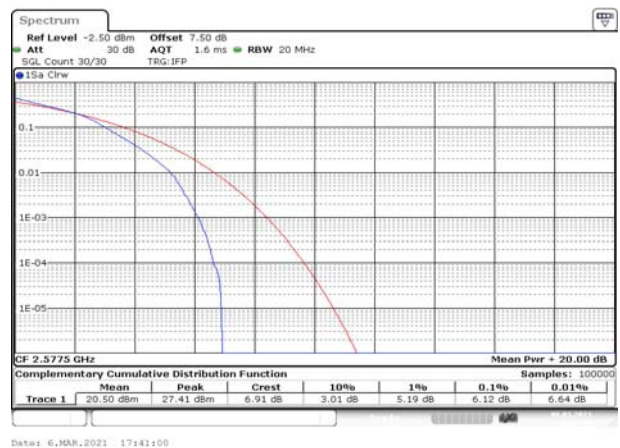


Fig.42

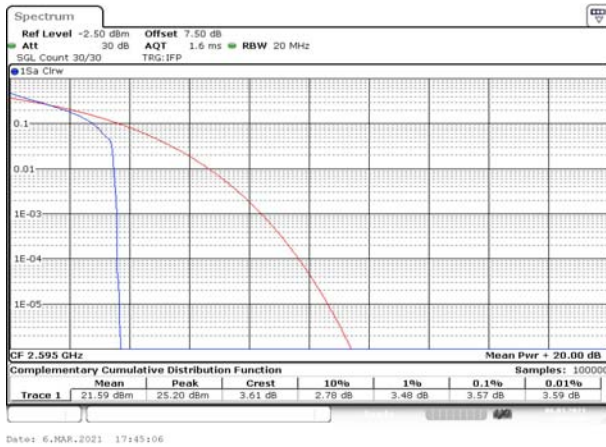


Fig.43

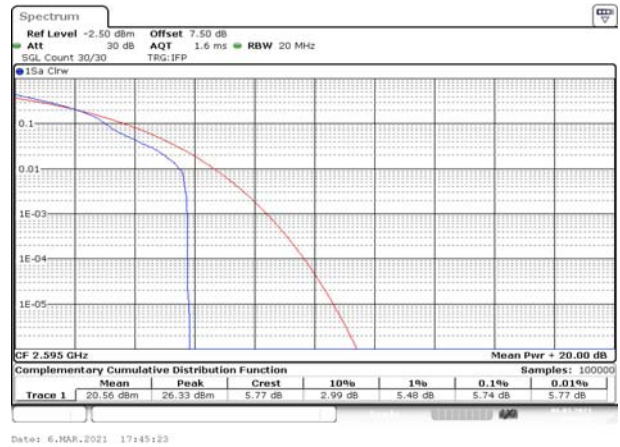


Fig.44

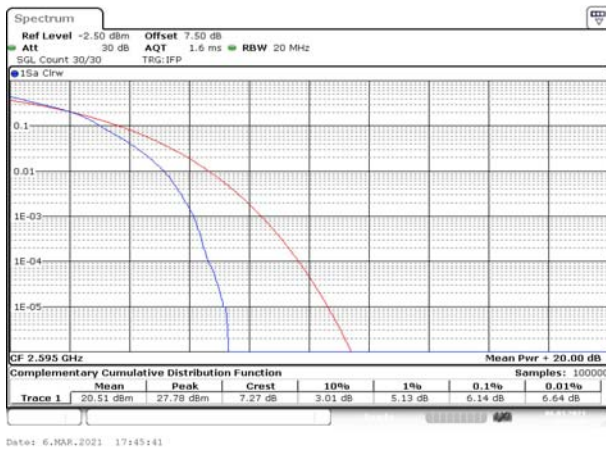


Fig.45

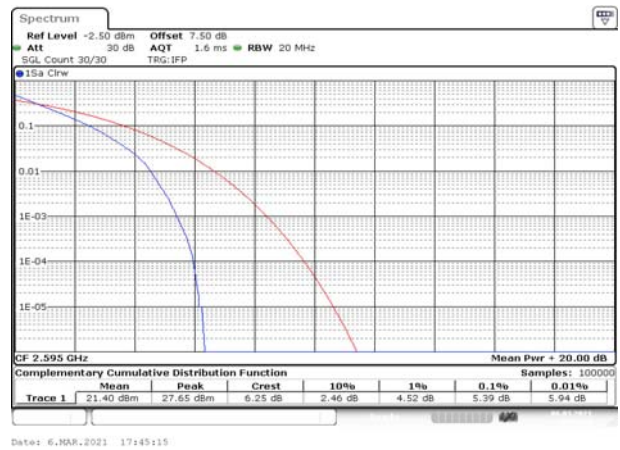


Fig.46

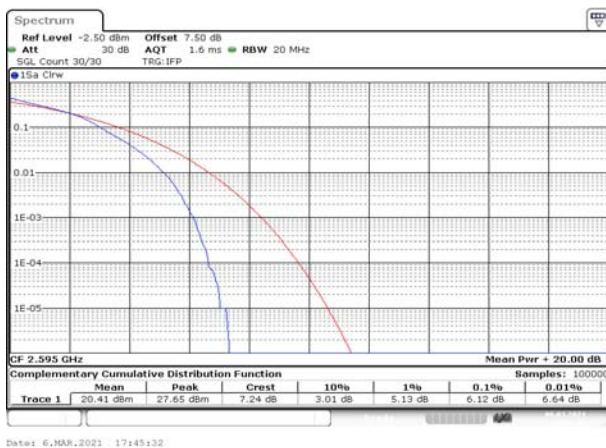


Fig.47

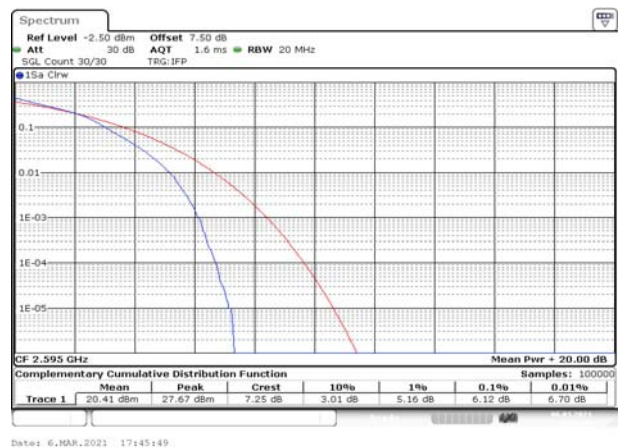


Fig.48

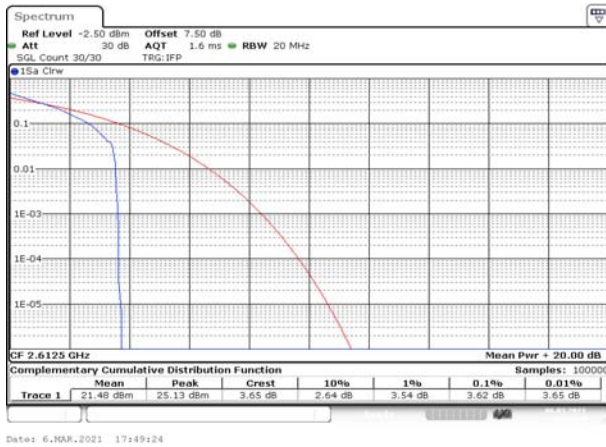


Fig.49

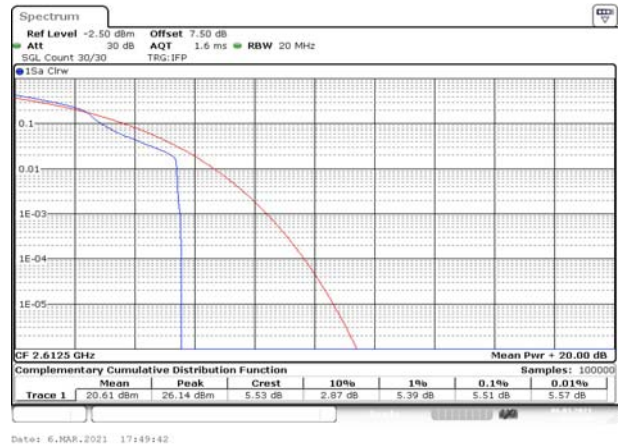


Fig.50

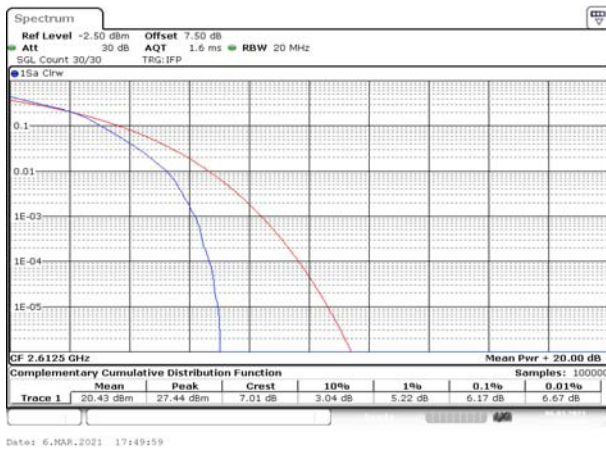


Fig.51

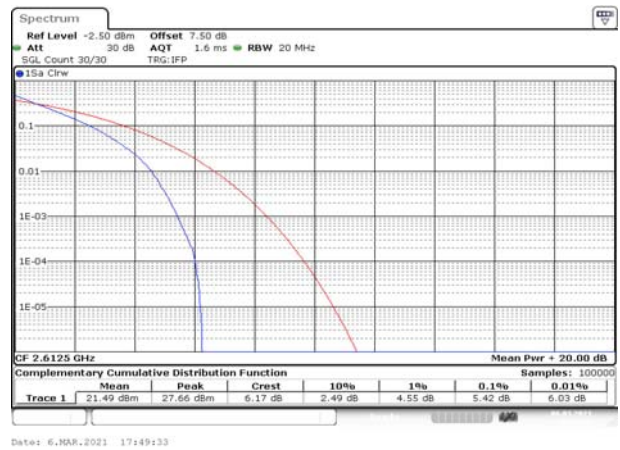


Fig.52

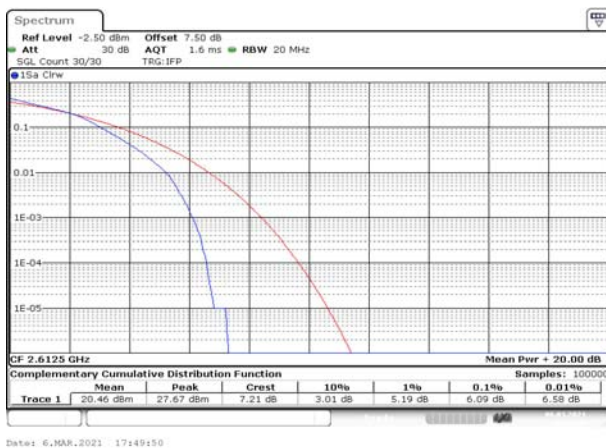


Fig.53

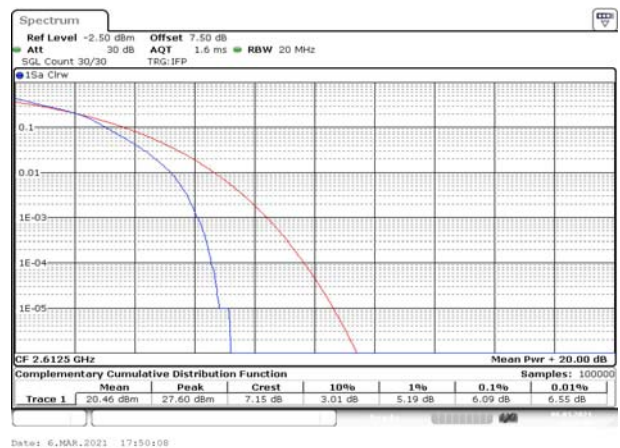


Fig.54

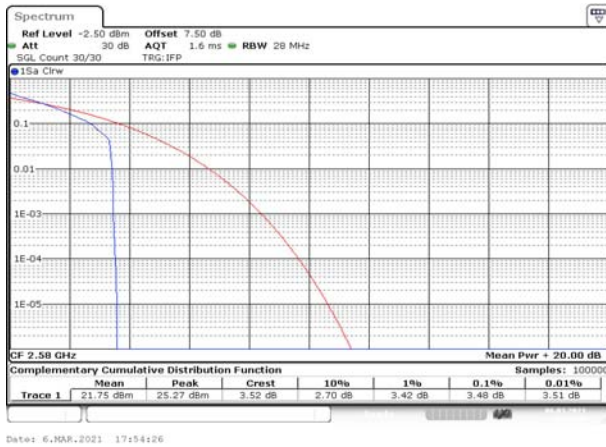


Fig.55

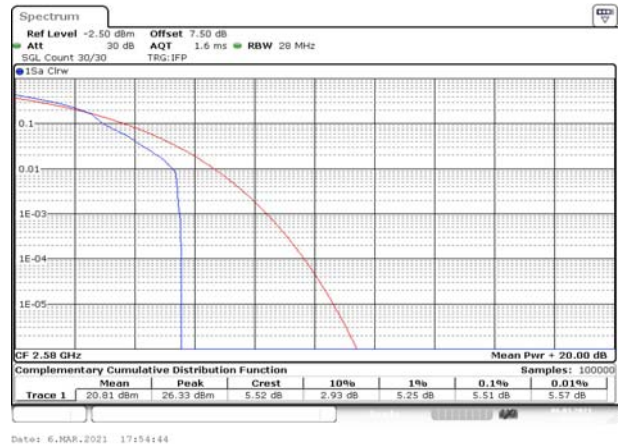


Fig.56

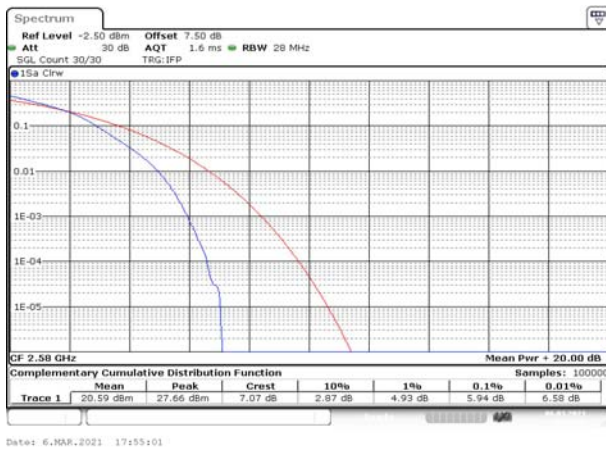


Fig.57

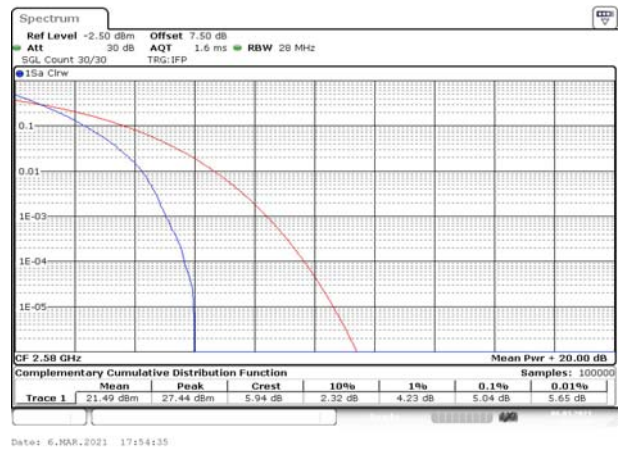


Fig.58

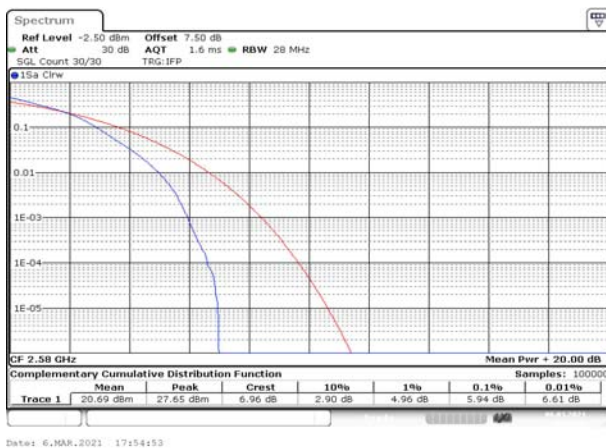


Fig.59

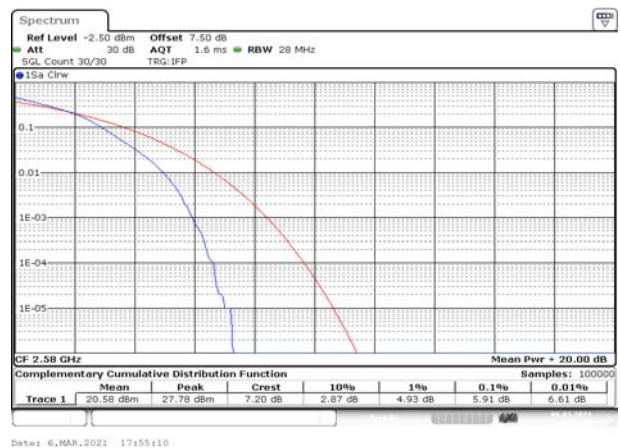


Fig.60

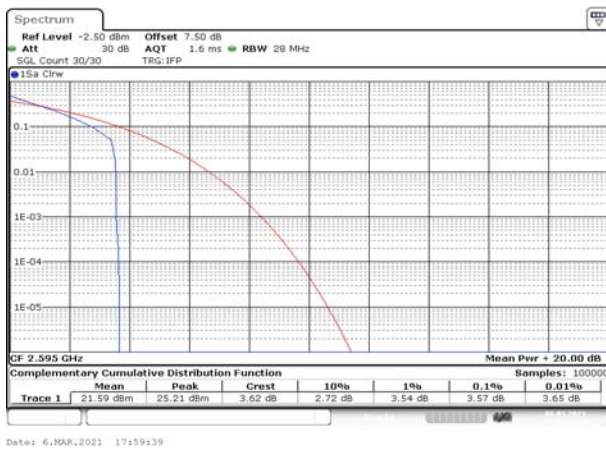


Fig.61

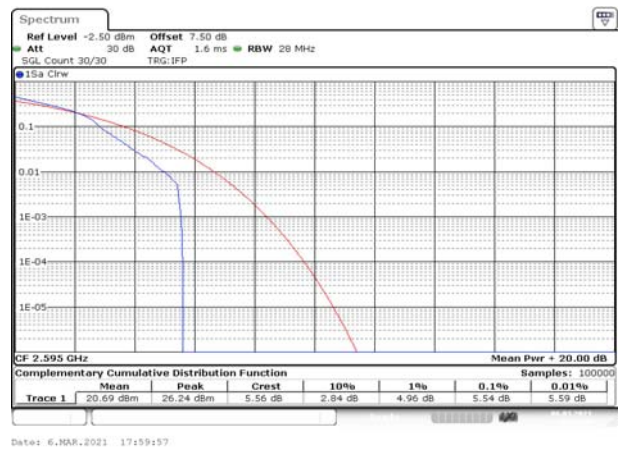


Fig.62

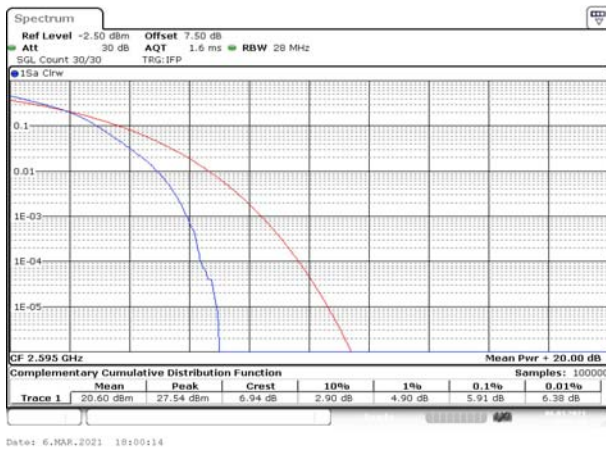


Fig.63

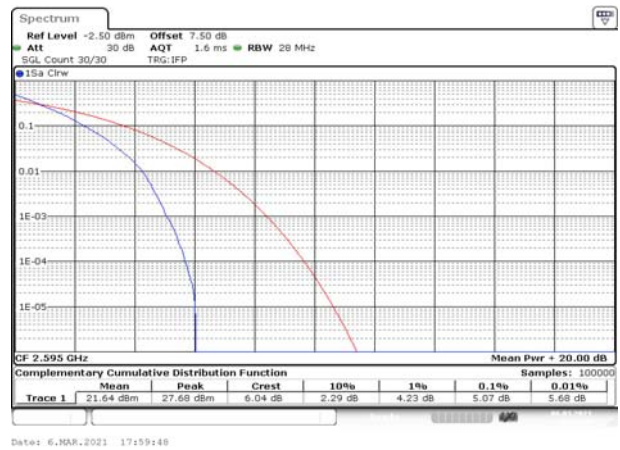


Fig.64

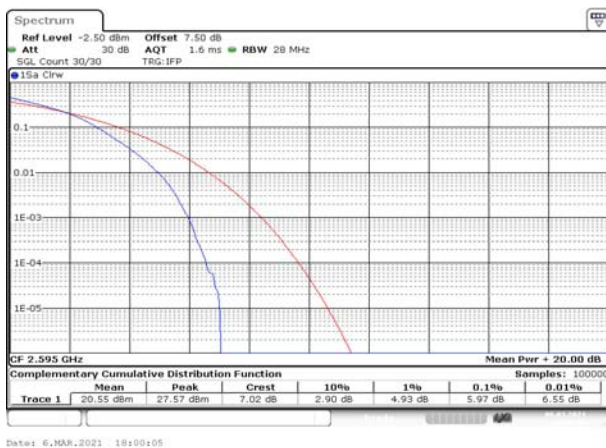


Fig.65

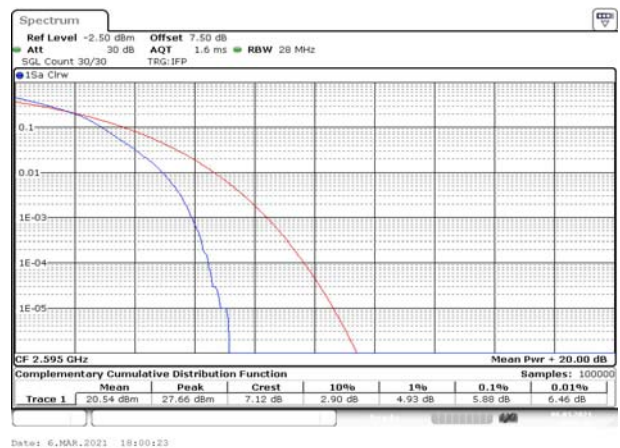


Fig.66

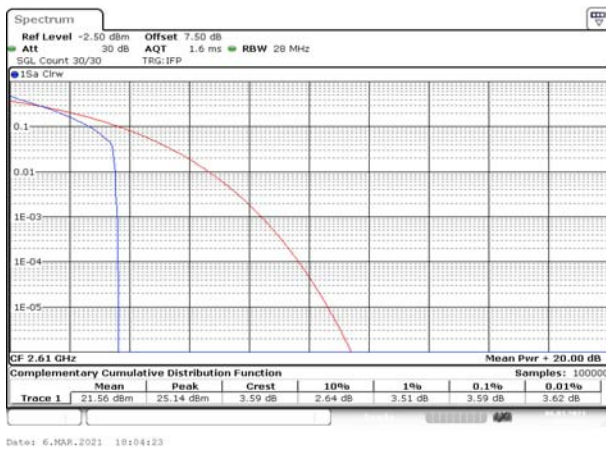


Fig.67

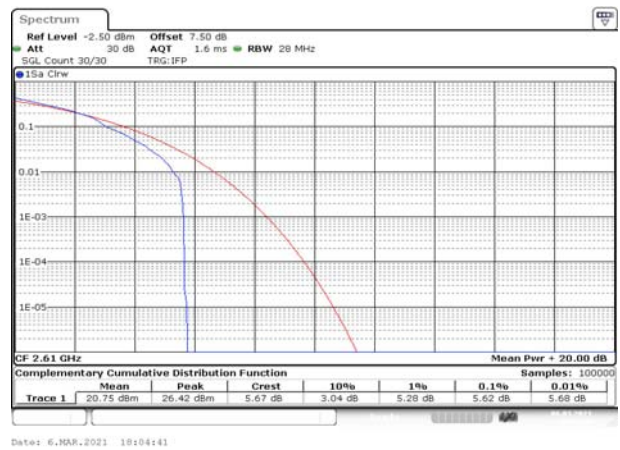


Fig.68

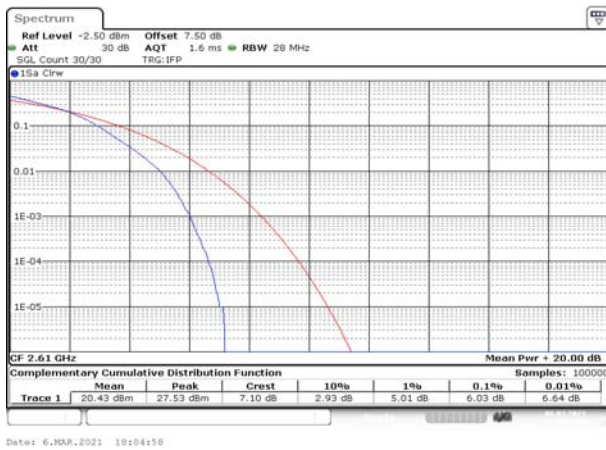


Fig.69

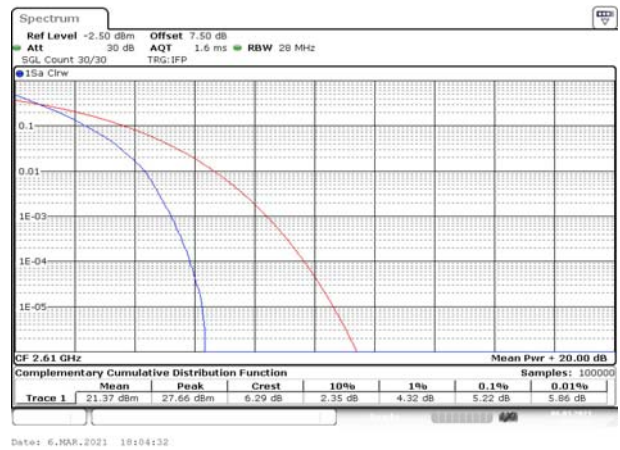


Fig.70

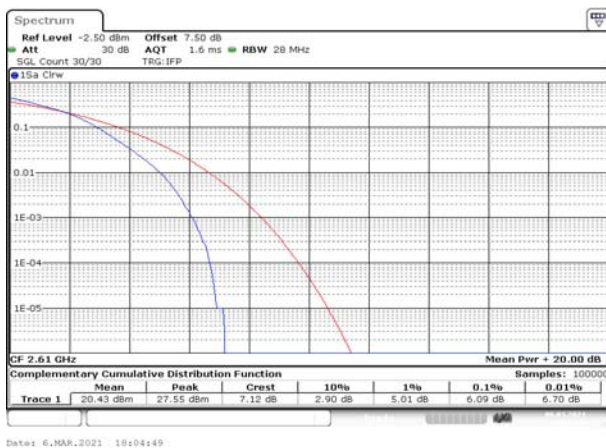


Fig.71

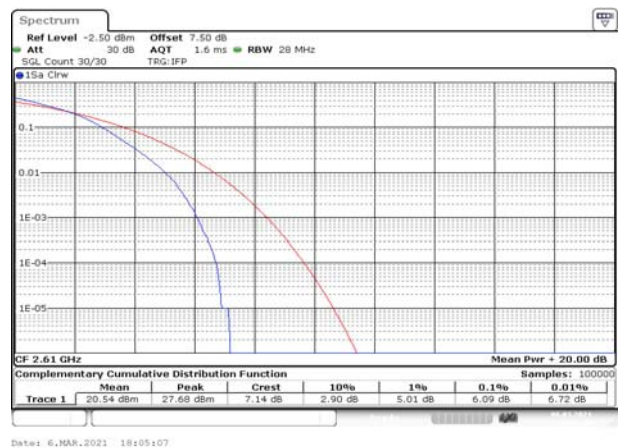


Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
38	2580	37850	20	1	0	Fig.1
	2595	38000		1	0	Fig.2
	2610	38150		1	0	Fig.3

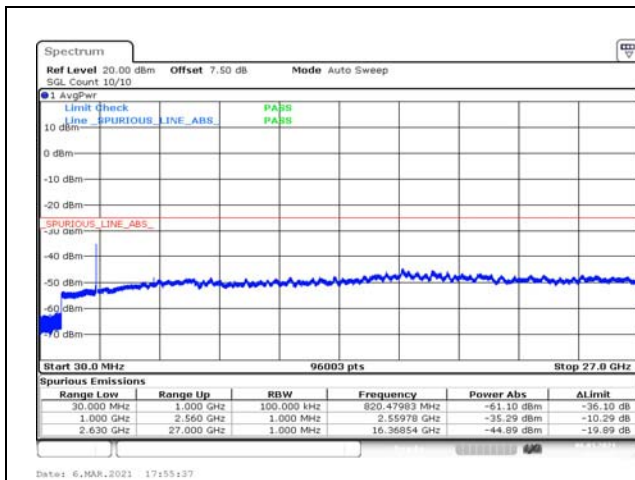


Fig.1

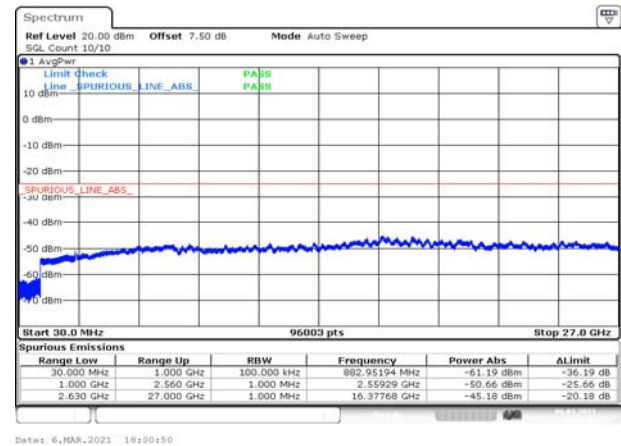


Fig.2

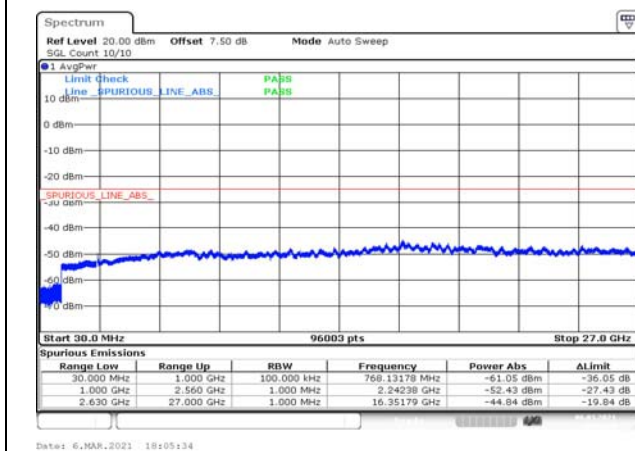


Fig.3

6 Band Edges Compliance

Band Edges Compliance						
Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
38	2572.5	37775	5	1	0	Fig.1
				25	0	Fig.2
		38225		1	24	Fig.3
				25	0	Fig.4
	2575	37800	10	1	0	Fig.5
				50	0	Fig.6
		38200		1	49	Fig.7
				50	0	Fig.8
	2577.5	37825	15	1	0	Fig.9
				75	0	Fig.10
		38175		1	74	Fig.11
				75	0	Fig.12
	2580	37850	20	1	0	Fig.13
				100	0	Fig.14
		38150		1	99	Fig.15
				100	0	Fig.16