

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

RF Power Output						
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	23.16
				1	3	23.14
				1	5	23.19
				3	0	23.18
				3	1	23.10
				3	3	23.21
				6	0	22.25
	707.5	23095		1	0	23.16
				1	3	23.16
				1	5	23.19
				3	0	23.17
				3	1	23.16
				3	3	23.12
				6	0	22.14
	715.3	23173		1	0	23.06
				1	3	23.07
				1	5	22.95
				3	0	23.06
				3	1	23.02
				3	3	23.07
				6	0	22.15
16QAM	699.7	23017		1	0	22.39
				1	3	22.31
				1	5	22.31
				3	0	22.53
				3	1	22.50
				3	3	22.50
				6	0	21.29
	707.5	23095	1	0	22.31	
			1	3	22.32	
			1	5	22.39	
			3	0	22.09	
			3	1	22.15	
			3	3	22.22	
			6	0	21.18	
	715.3	23173	1	0	22.26	
			1	3	22.26	
			1	5	22.26	
			3	0	22.21	
				3	1	22.18
				3	3	22.17
				6	0	21.07

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	699.7	23017	1.4	1	0	21.28
				1	3	21.27
				1	5	21.27
				3	0	21.26
				3	1	21.31
				3	3	21.25
				6	0	21.30
	707.5	23095		1	0	21.15
				1	3	21.18
				1	5	21.18
				3	0	21.18
				3	1	21.21
				3	3	21.25
				6	0	21.20
	715.3	23173		1	0	21.00
				1	3	21.02
				1	5	21.00
				3	0	21.02
				3	1	21.00
				3	3	20.98
				6	0	21.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.36
				1	8	23.23
				1	14	23.23
				8	0	22.38
				8	4	22.36
				8	7	22.36
				15	0	22.38
	707.5	23095		1	0	23.35
				1	8	23.28
				1	14	23.28
				8	0	22.34
				8	4	22.32
				8	7	22.28
				15	0	22.30
	714.5	23165		1	0	23.16
				1	8	23.16
				1	14	23.16
				8	0	22.18
				8	4	22.17
				8	7	22.17
				15	0	22.17
16QAM	700.5	23025	1	0	23.07	
			1	8	22.89	
			1	14	22.95	
			8	0	21.55	
			8	4	21.55	
			8	7	21.56	
			15	0	21.48	
	707.5	23095	1	0	22.52	
			1	8	22.39	
			1	14	22.49	
			8	0	21.29	
			8	4	21.31	
			8	7	21.26	
			15	0	21.29	
	714.5	23165	1	0	22.42	
			1	8	22.30	
			1	14	22.29	
			8	0	21.26	
			8	4	21.22	
			8	7	21.26	
			15	0	21.26	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	700.5	23025	3	1	0	21.44
				1	8	21.49
				1	14	21.45
				8	0	21.49
				8	4	21.44
				8	7	21.48
				15	0	21.44
	707.5	23095		1	0	21.26
				1	8	21.29
				1	14	21.24
				8	0	21.29
				8	4	21.29
				8	7	21.28
				15	0	21.29
	714.5	23165		1	0	21.28
				1	8	21.23
				1	14	21.22
				8	0	21.23
				8	4	21.23
				8	7	21.29
				15	0	21.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	701.5	23035	5	1	0	23.30	
				1	12	23.30	
				1	24	23.29	
				12	0	22.41	
				12	7	22.31	
				12	13	22.36	
				25	0	22.33	
	707.5	23095		1	0	23.33	
				1	12	23.27	
				1	24	23.23	
				12	0	22.30	
				12	7	22.29	
				12	13	22.29	
				25	0	22.31	
	713.5	23155		1	0	23.20	
				1	12	23.11	
				1	24	23.09	
				12	0	22.29	
				12	7	22.21	
				12	13	22.17	
				25	0	22.19	
	16QAM	701.5		23035	1	0	22.40
					1	12	22.33
					1	24	22.40
12					0	21.42	
12					7	21.37	
12					13	21.37	
25					0	21.42	
707.5		23095	1	0	22.66		
			1	12	22.57		
			1	24	22.57		
			12	0	21.44		
			12	7	21.35		
			12	13	21.39		
			25	0	21.31		
713.5		23155	1	0	22.23		
			1	12	22.19		
			1	24	22.18		
			12	0	21.23		
			12	7	21.17		
			12	13	21.22		
			25	0	21.27		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	701.5	23035	5	1	0	21.40
				1	12	21.41
				1	24	21.52
				12	0	21.44
				12	7	21.40
				12	13	21.52
				25	0	21.47
	707.5	23095		1	0	21.30
				1	12	21.30
				1	24	21.29
				12	0	21.30
				12	7	21.29
				12	13	21.29
				25	0	21.32
	713.5	23155		1	0	21.27
				1	12	21.32
				1	24	21.30
				12	0	21.32
				12	7	21.29
				12	13	21.27
				25	0	21.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.25
				1	25	23.18
				1	49	23.27
				25	0	22.36
				25	12	22.34
				25	25	22.34
				50	0	22.36
	707.5	23095		1	0	23.35
				1	25	23.20
				1	49	23.19
				25	0	22.31
				25	12	22.23
				25	25	22.38
				50	0	22.33
	711	23130		1	0	23.25
				1	25	23.05
				1	49	23.14
				25	0	22.33
				25	12	22.22
				25	25	22.25
				50	0	22.39
16QAM	704	23060	1	0	22.92	
			1	25	22.87	
			1	49	22.76	
			25	0	21.40	
			25	12	21.37	
			25	25	21.40	
			50	0	21.44	
	707.5	23095	1	0	22.41	
			1	25	22.40	
			1	49	22.43	
			25	0	21.35	
			25	12	21.34	
			25	25	21.40	
			50	0	21.33	
	711	23130	1	0	22.90	
			1	25	22.75	
			1	49	22.72	
			25	0	21.35	
			25	12	21.38	
			25	25	21.38	
			50	0	21.39	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	704	23060	10	1	0	21.37
				1	25	21.37
				1	49	21.36
				25	0	21.37
				25	12	21.35
				25	25	21.42
				50	0	21.42
	707.5	23095		1	0	21.27
				1	25	21.27
				1	49	21.27
				25	0	21.44
				25	12	21.26
				25	25	21.39
				50	0	21.30
	711	23130		1	0	21.36
				1	25	21.39
				1	49	21.32
				25	0	21.32
				25	12	21.38
				25	25	21.33
				50	0	21.34

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
12	699.7	23017	1.4	6	0	1.088	Fig.1	1.088	Fig.2	1.082	Fig.3
	707.5	23095		6	0	1.082	Fig.4	1.076	Fig.5	1.082	Fig.6
	715.3	23173		6	0	1.076	Fig.7	1.082	Fig.8	1.082	Fig.9
	700.5	23025	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	707.5	23095		15	0	2.696	Fig.13	2.683	Fig.14	2.683	Fig.15
	714.5	23165		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	701.5	23035	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	707.5	23095		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	713.5	23155		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	704	23060	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	707.5	23095		50	0	8.944	Fig.31	8.987	Fig.32	8.987	Fig.33
	711	23130		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36

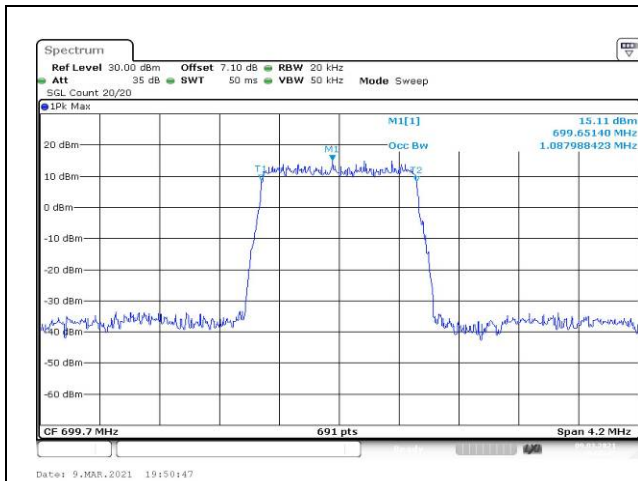


Fig.1

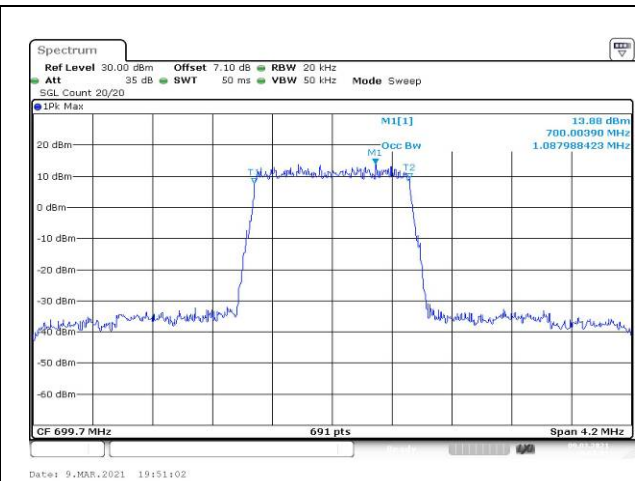


Fig.2

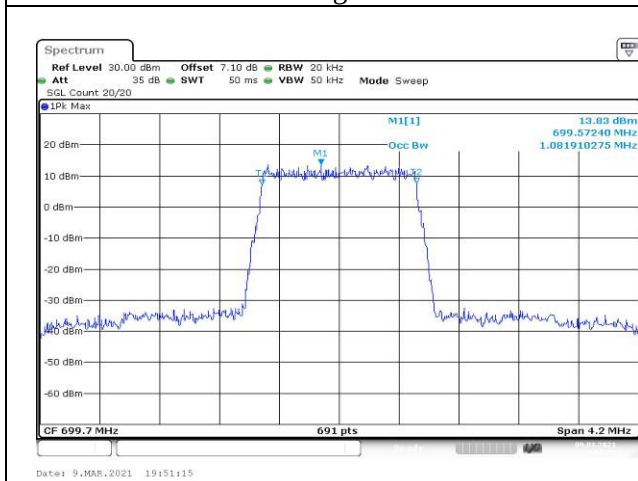


Fig.3

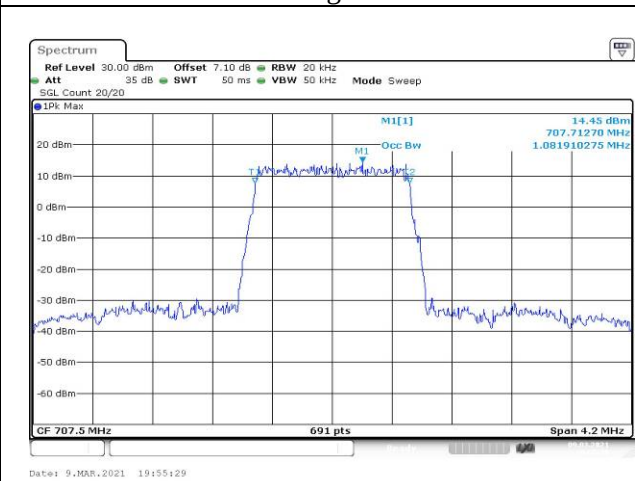


Fig.4

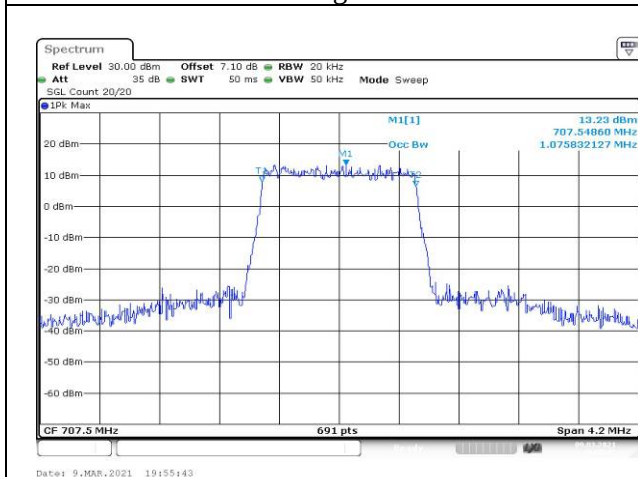


Fig.5

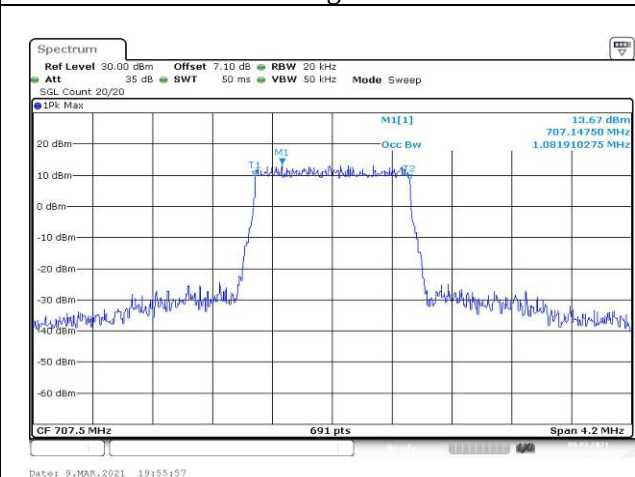


Fig.6

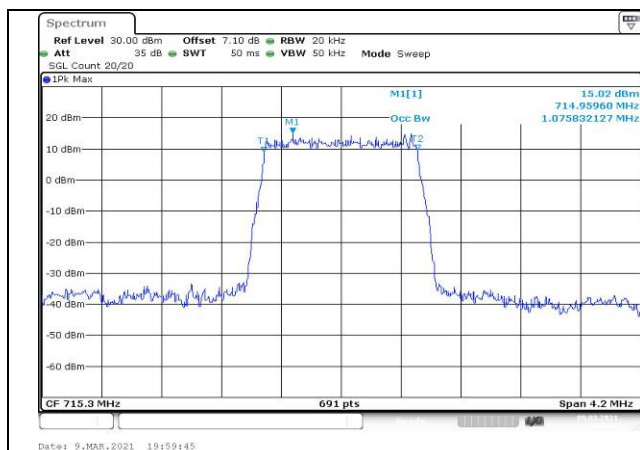


Fig.7

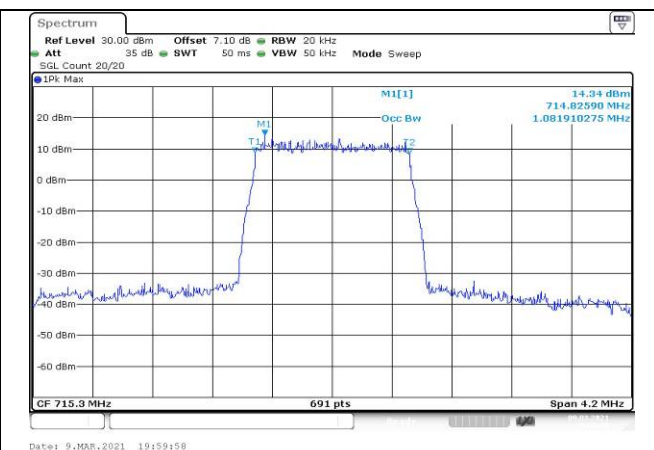


Fig.8

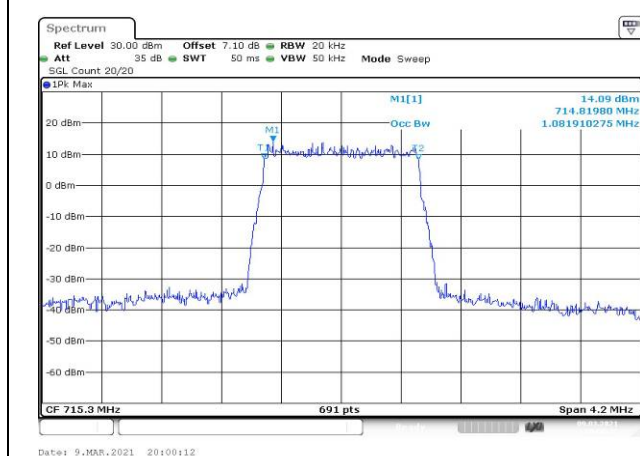


Fig.9

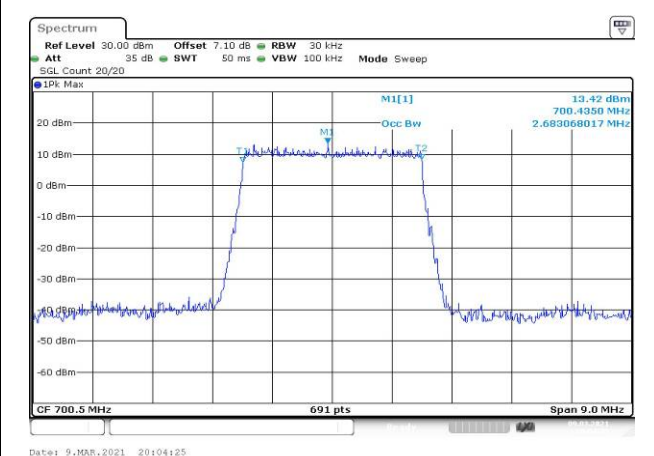


Fig.10

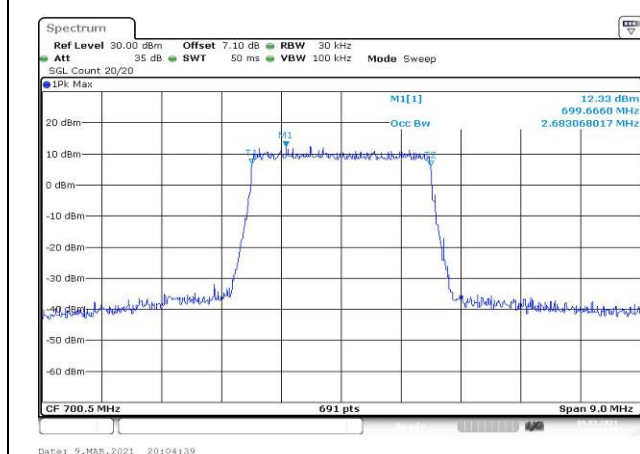


Fig.11

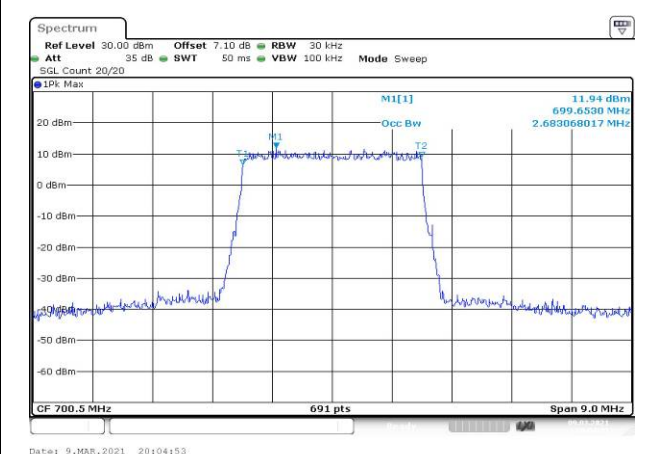
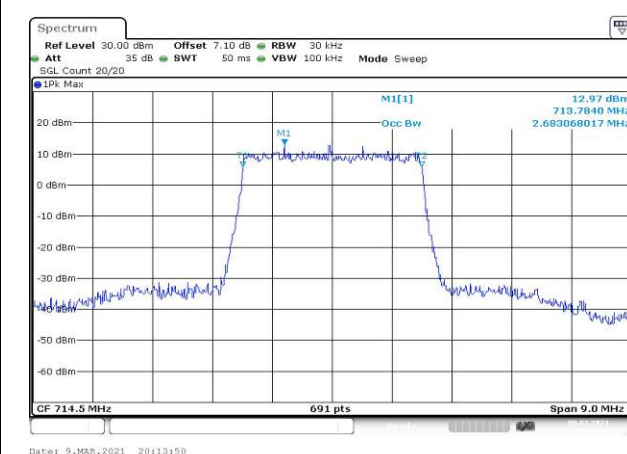
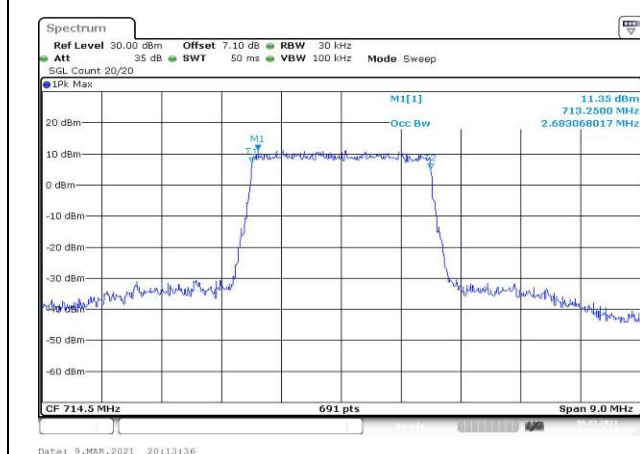
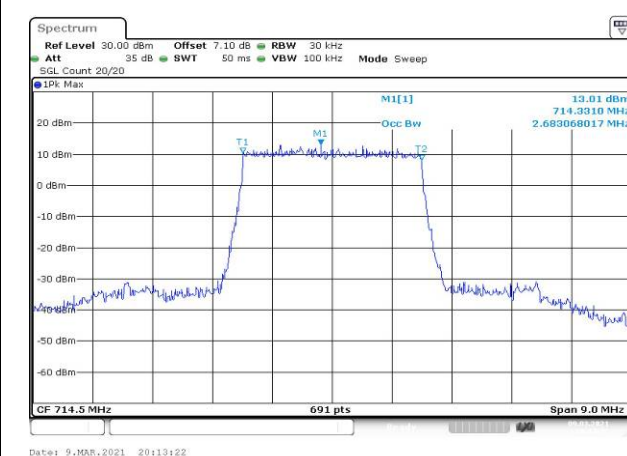
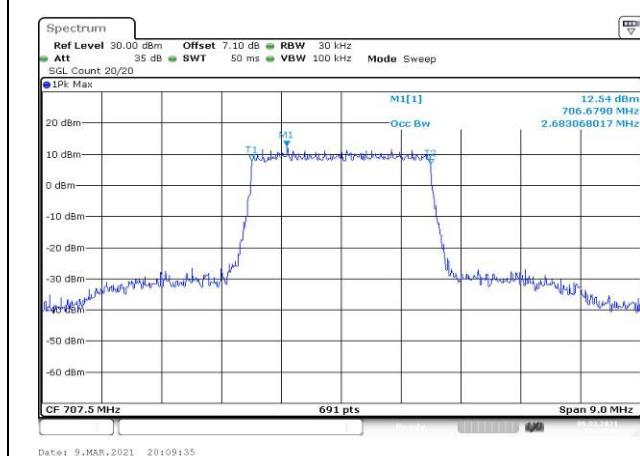
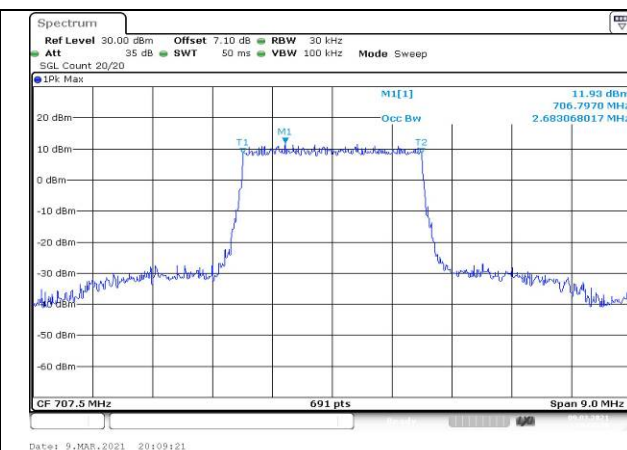
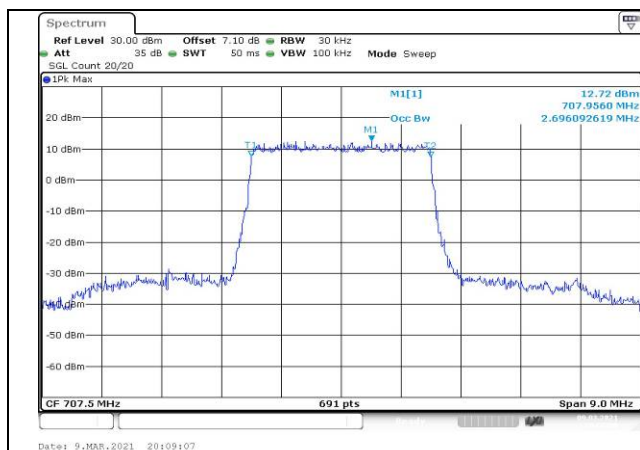
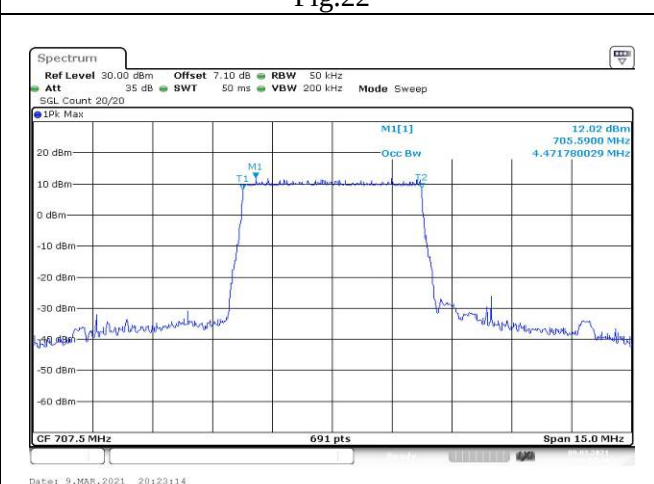
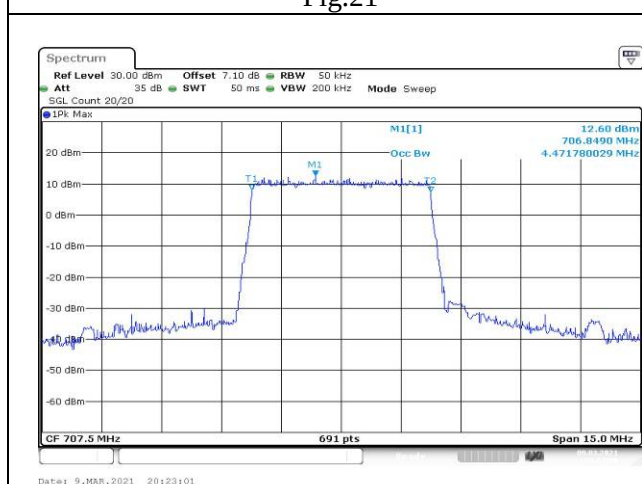
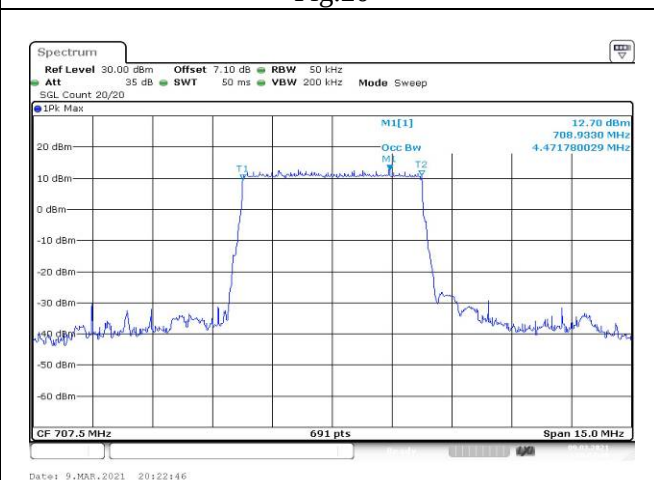
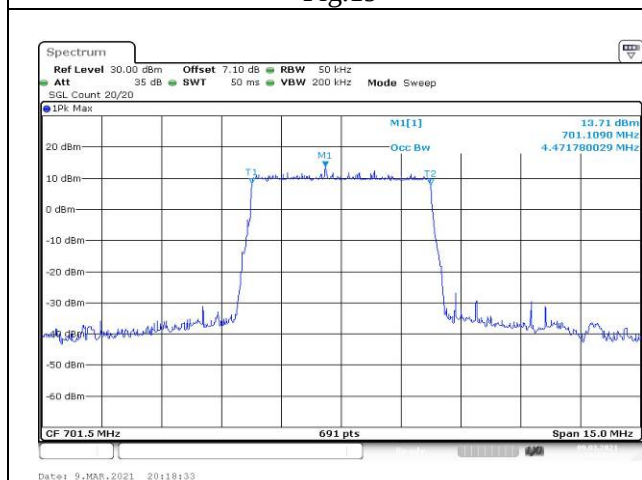
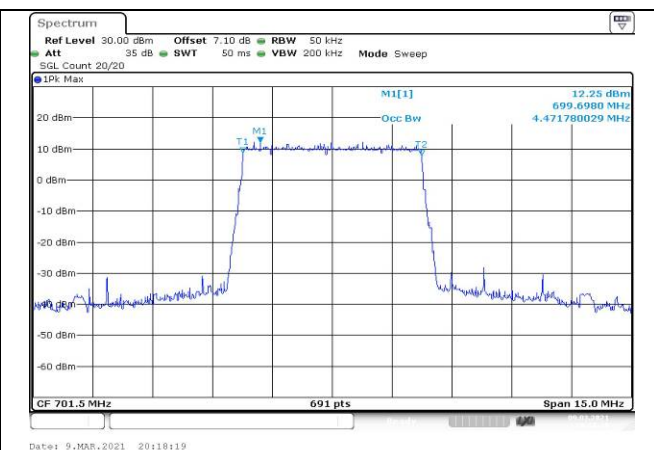
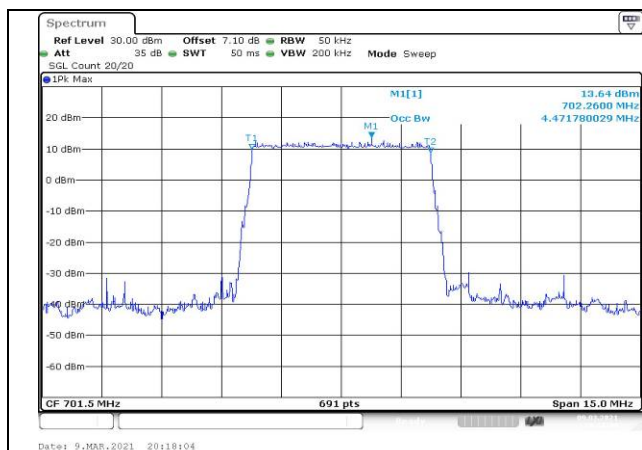
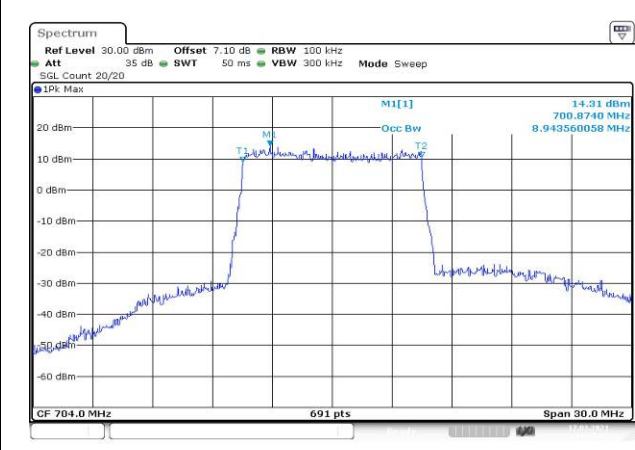
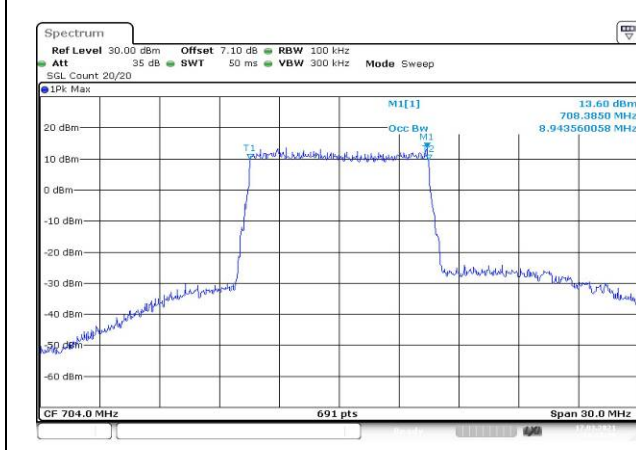
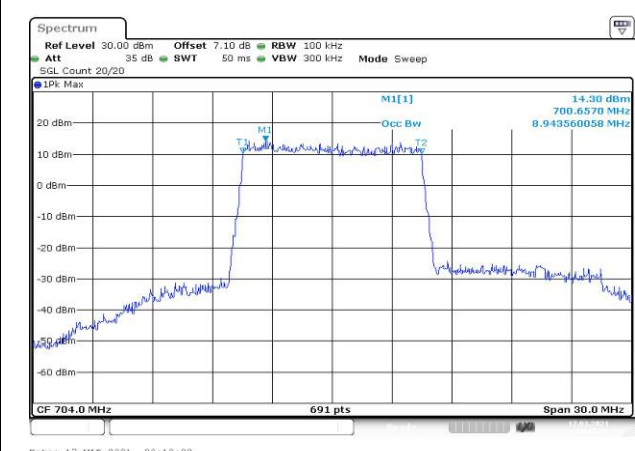
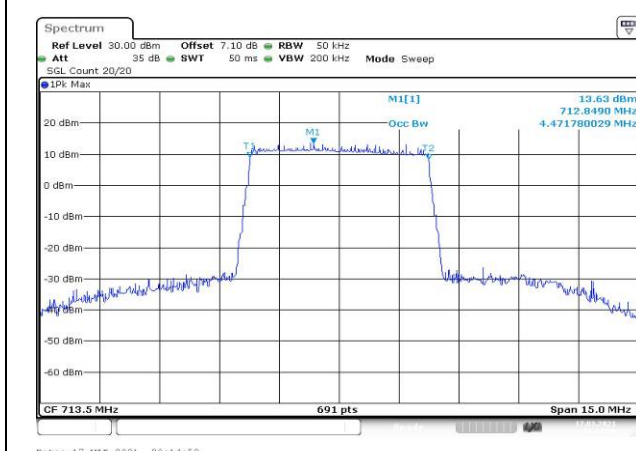
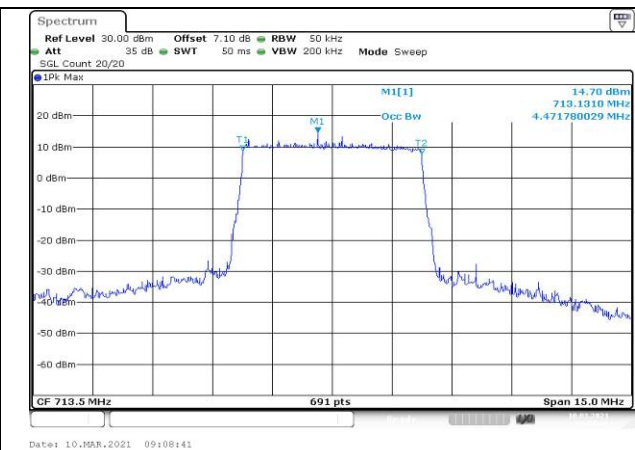
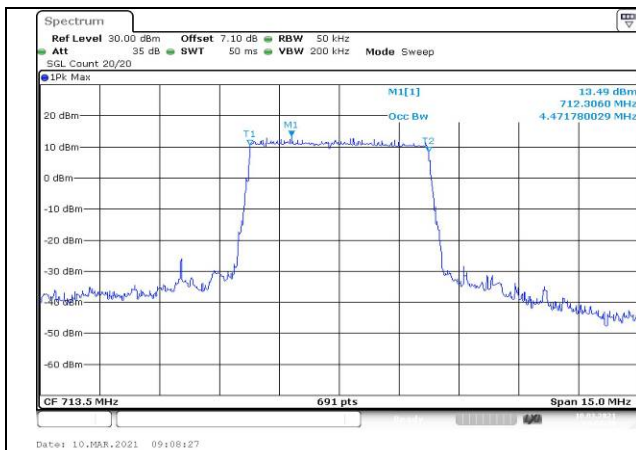
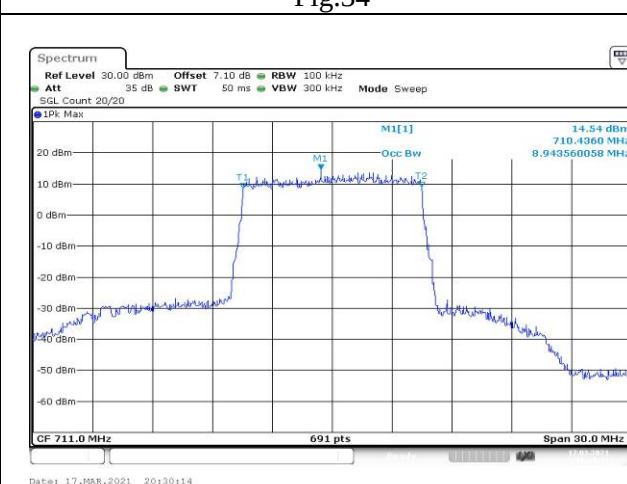
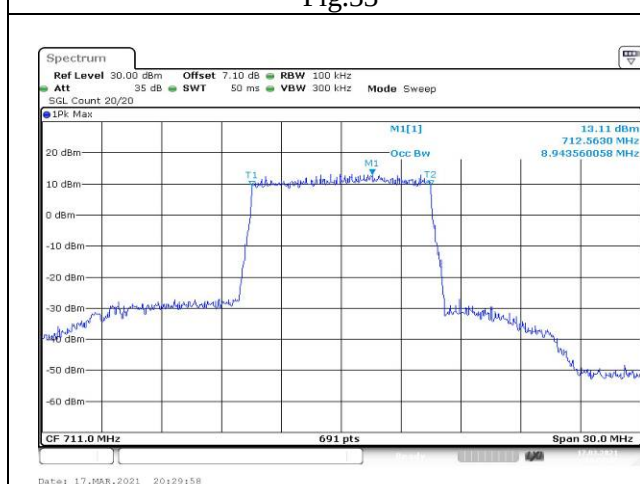
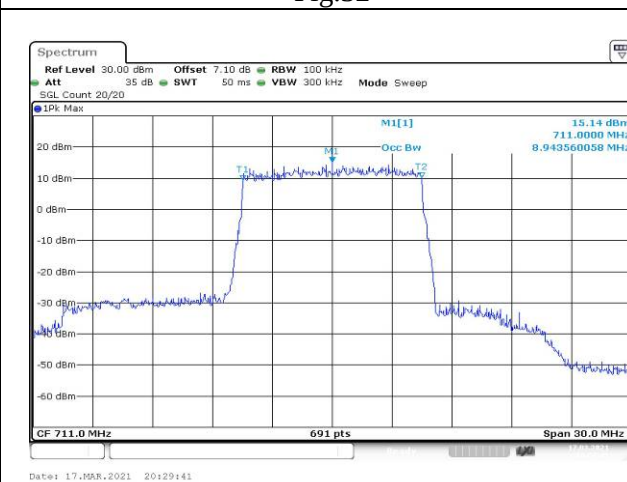
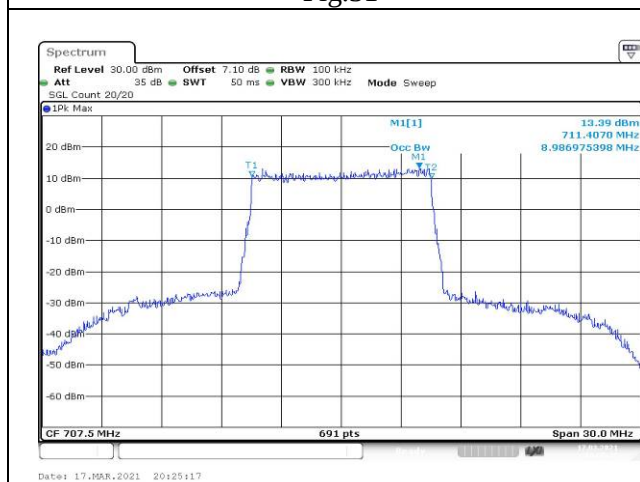
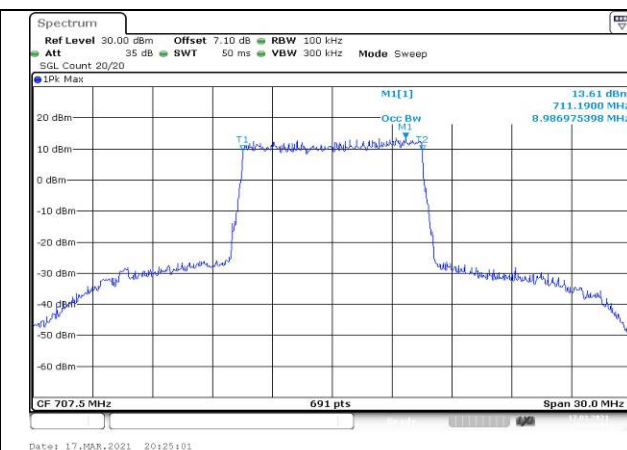
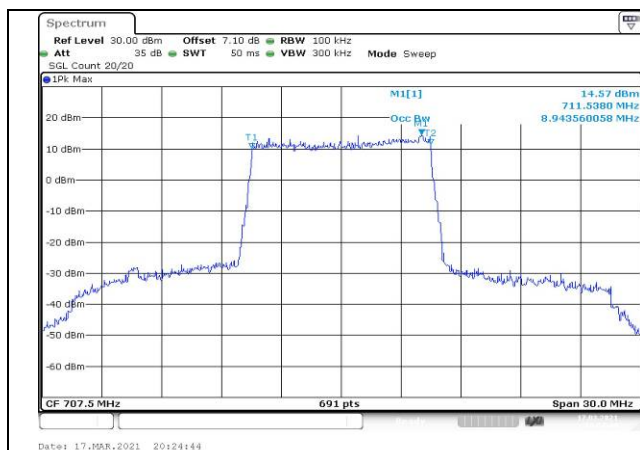


Fig.12









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	
12	699.7	23017	1.4	6	0	1.216	Fig.1	1.204	Fig.2	1.216	Fig.3
	707.5	23095		6	0	1.216	Fig.4	1.222	Fig.5	1.210	Fig.6
	715.3	23173		6	0	1.210	Fig.7	1.222	Fig.8	1.216	Fig.9
	700.5	23025	3	15	0	2.904	Fig.10	2.918	Fig.11	2.918	Fig.12
	707.5	23095		15	0	2.931	Fig.13	2.918	Fig.14	2.931	Fig.15
	714.5	23165		15	0	2.931	Fig.16	2.931	Fig.17	2.918	Fig.18
	701.5	23035	5	25	0	4.884	Fig.19	4.819	Fig.20	4.884	Fig.21
	707.5	23095		25	0	4.841	Fig.22	4.884	Fig.23	4.884	Fig.24
	713.5	23155		25	0	4.863	Fig.25	4.819	Fig.26	4.863	Fig.27
	704	23060	10	50	0	9.638	Fig.28	9.725	Fig.29	9.682	Fig.30
	707.5	23095		50	0	9.682	Fig.31	9.682	Fig.32	9.725	Fig.33
	711	23130		50	0	9.595	Fig.34	9.768	Fig.35	9.682	Fig.36

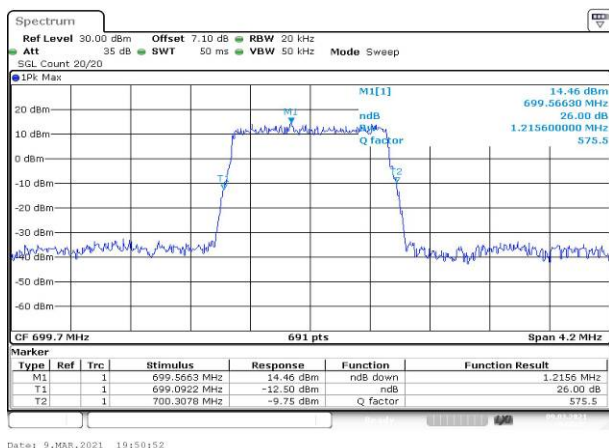


Fig.1

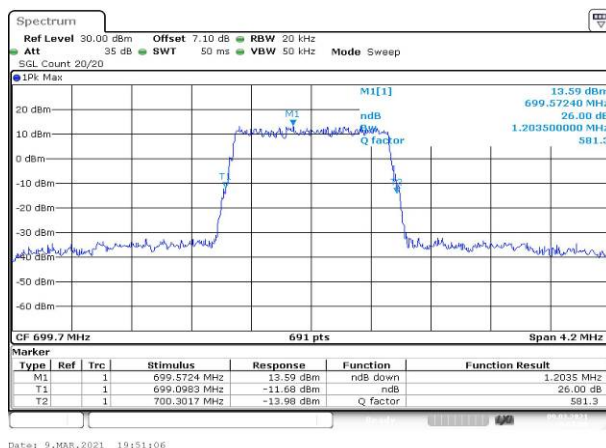


Fig.2

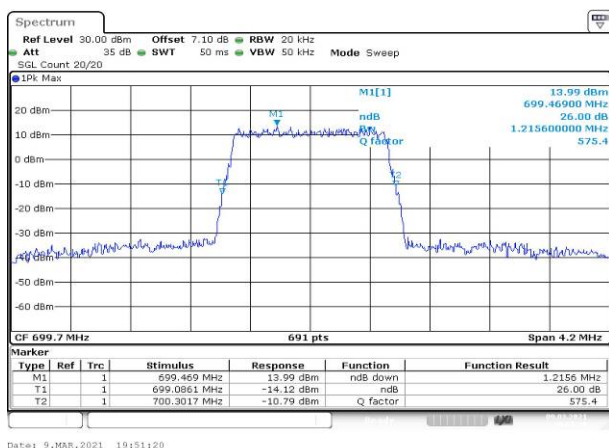


Fig.3

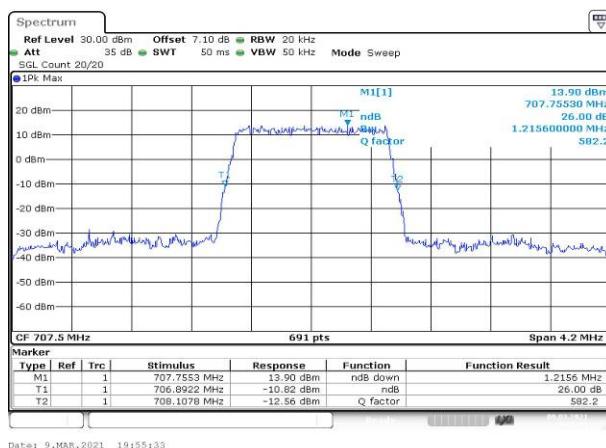


Fig.4

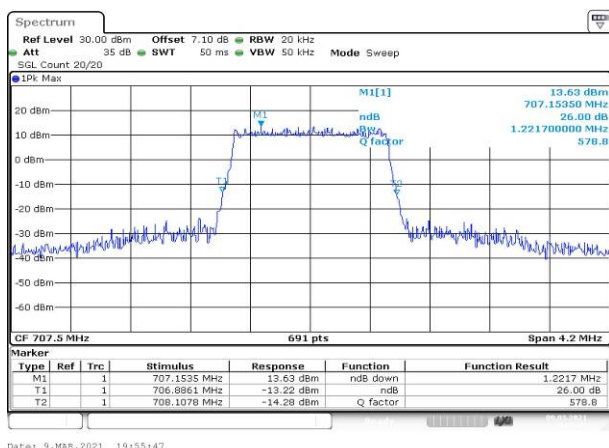


Fig.5

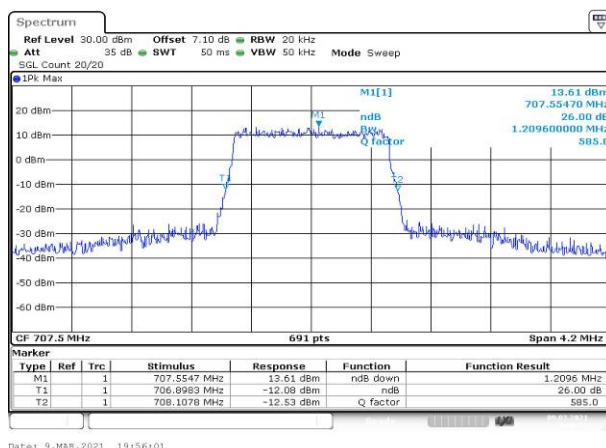


Fig.6

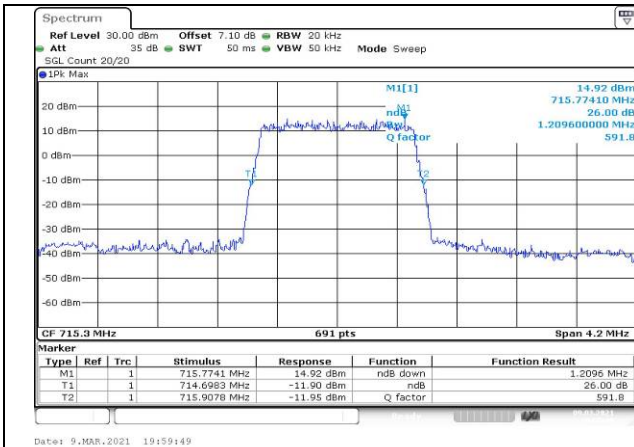


Fig.7

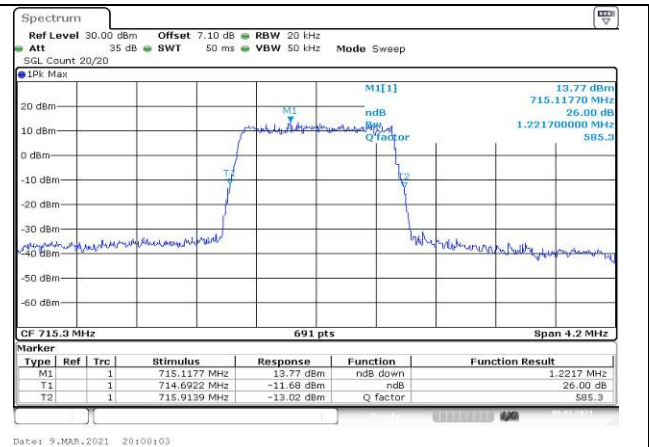


Fig.8

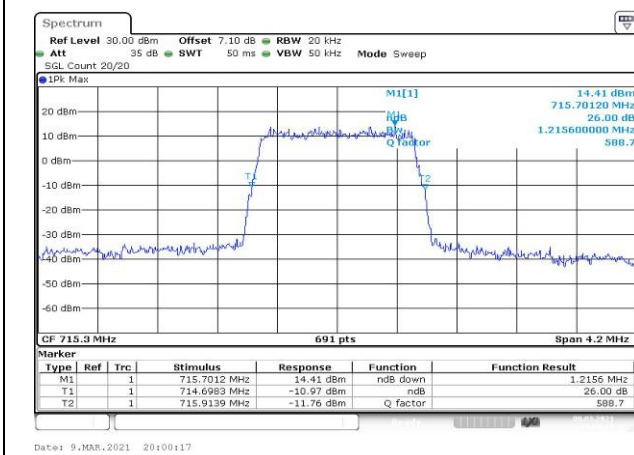


Fig.9

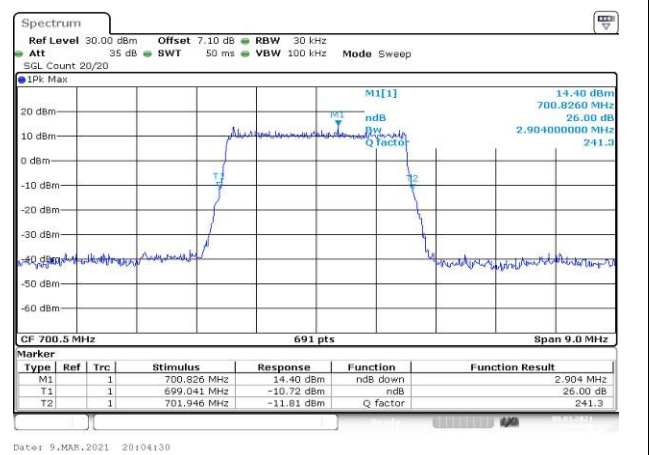


Fig.10

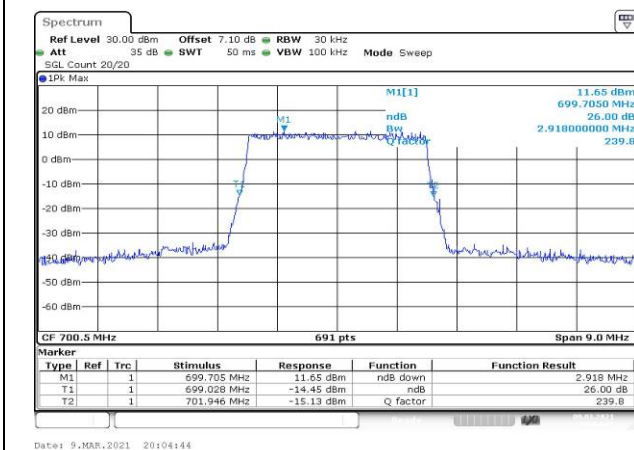


Fig.11

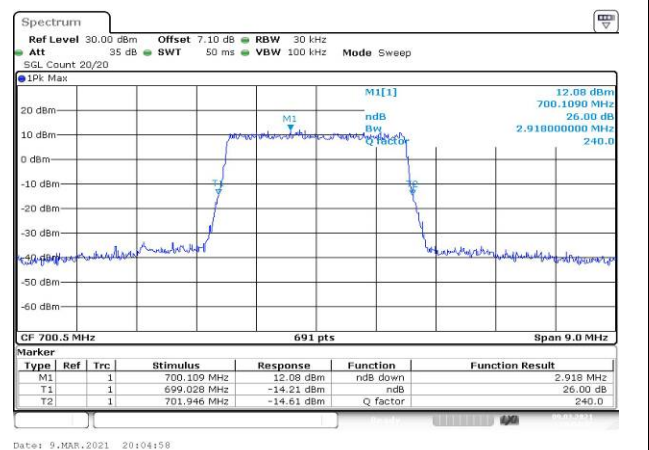


Fig.12

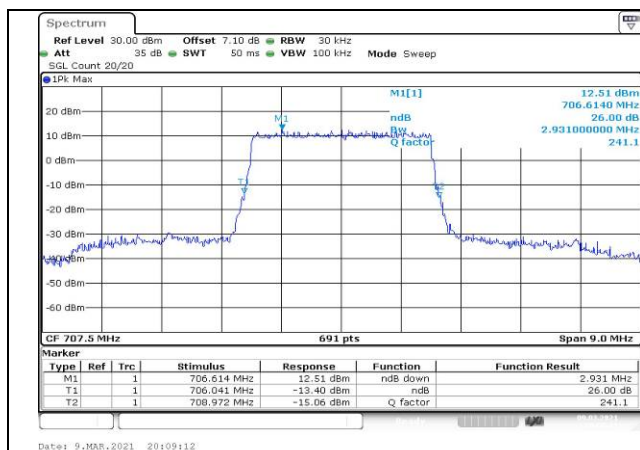


Fig.13

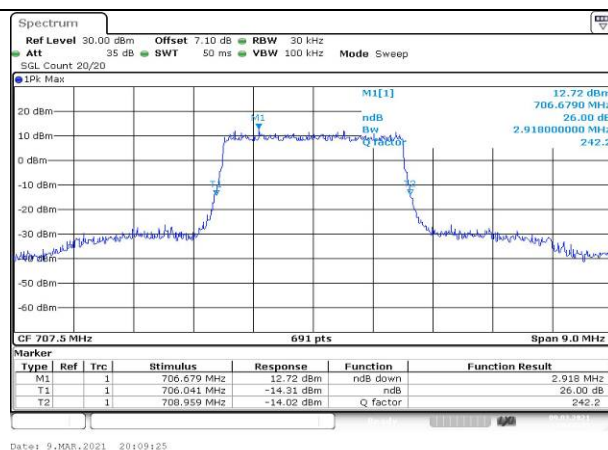


Fig.14

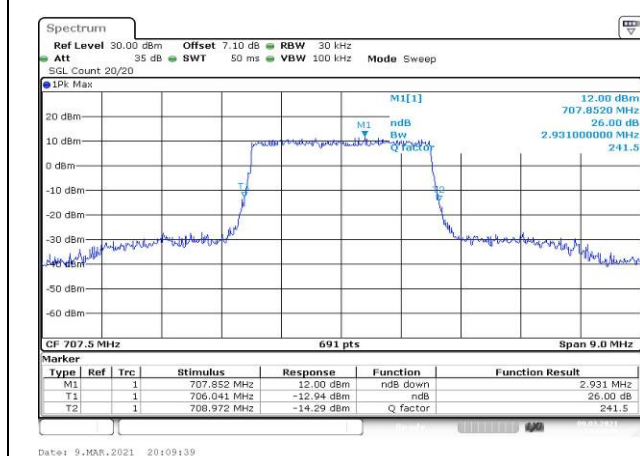


Fig.15

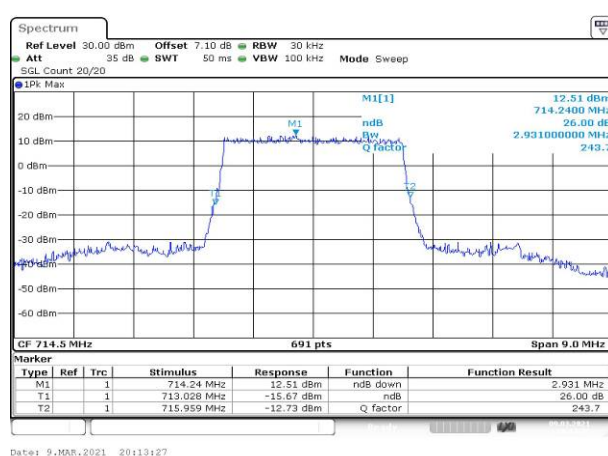


Fig.16

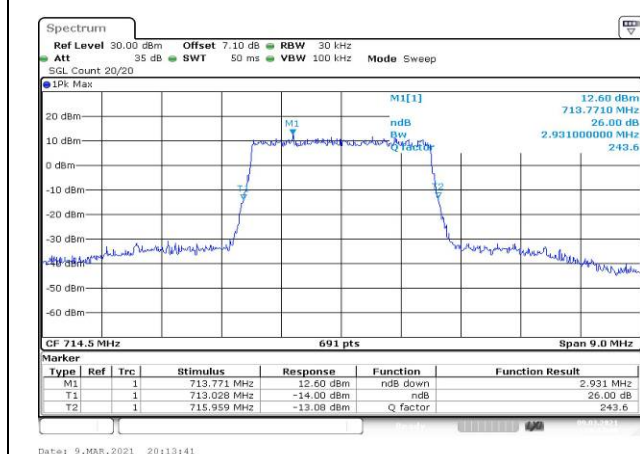


Fig.17

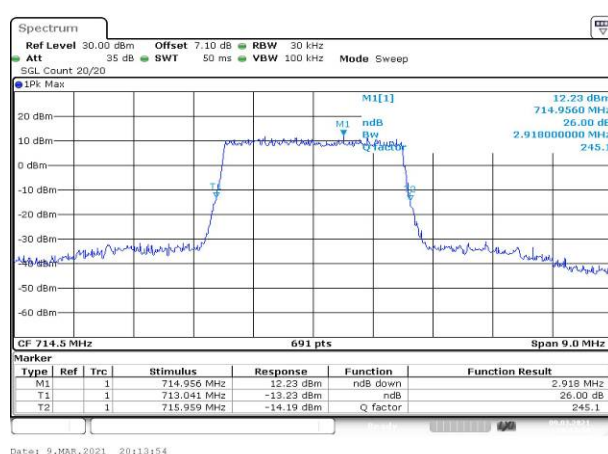


Fig.18

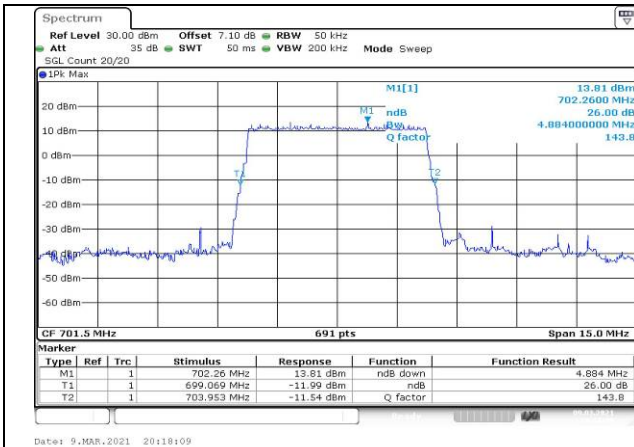


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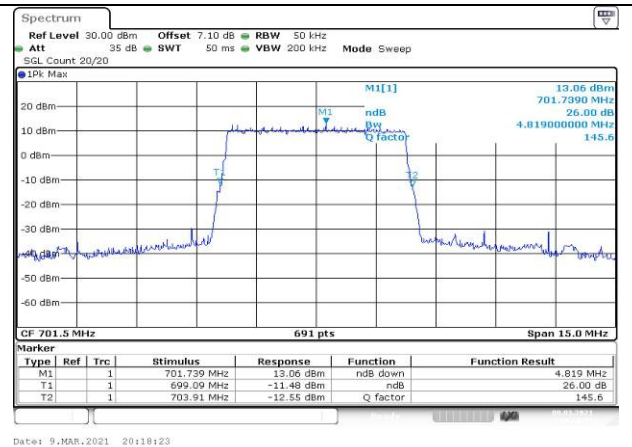


Fig.20

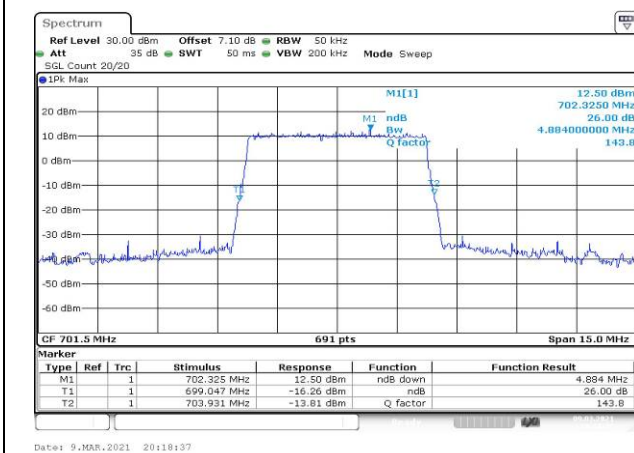


Fig.21

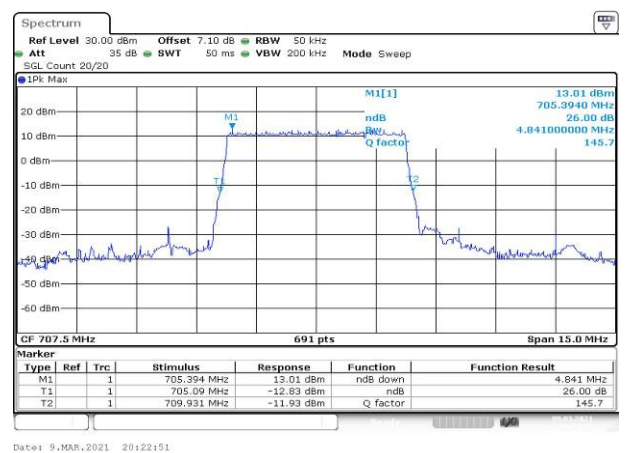


Fig.22

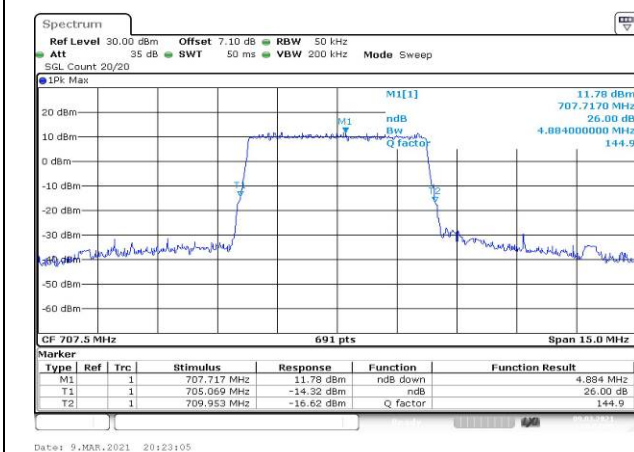


Fig.23

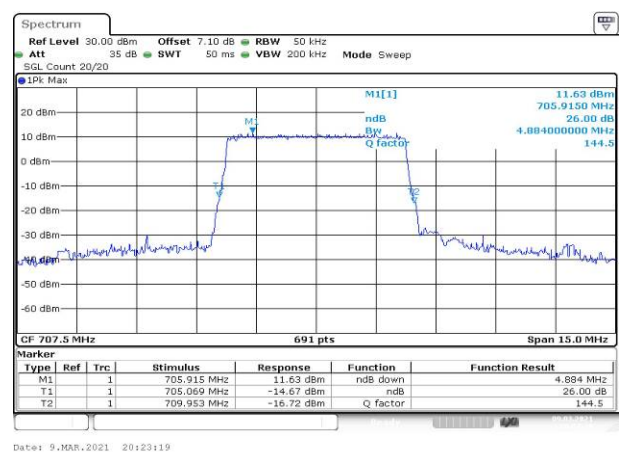


Fig.24

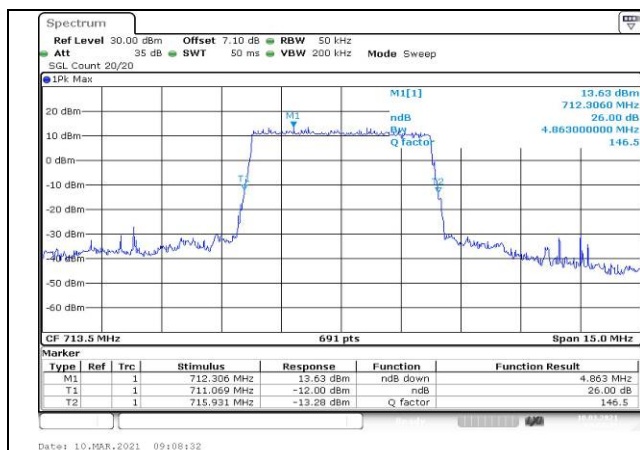


Fig.25

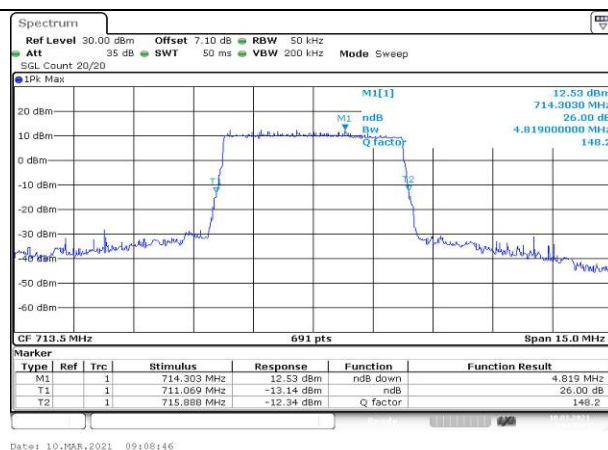


Fig.26

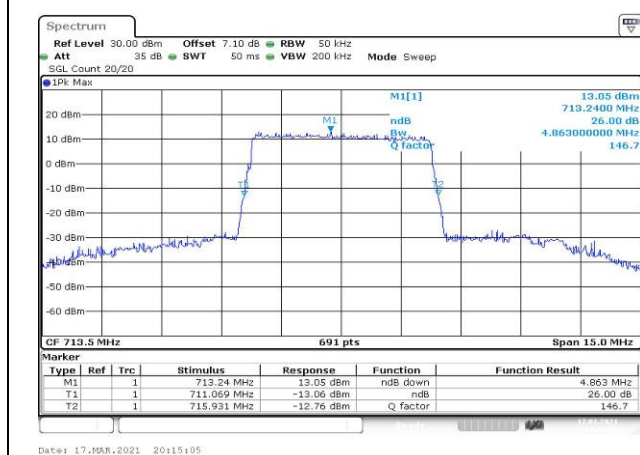


Fig.27

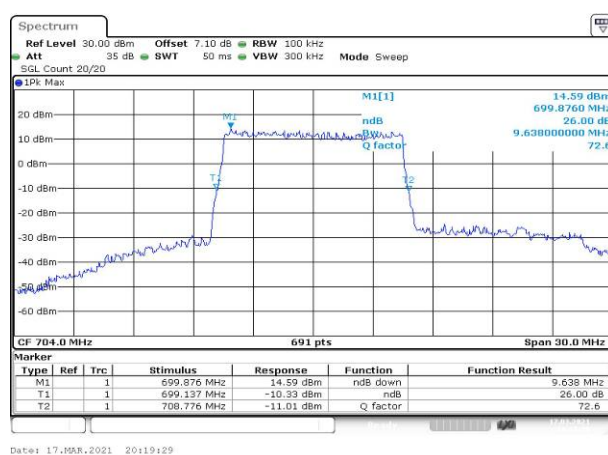


Fig.28

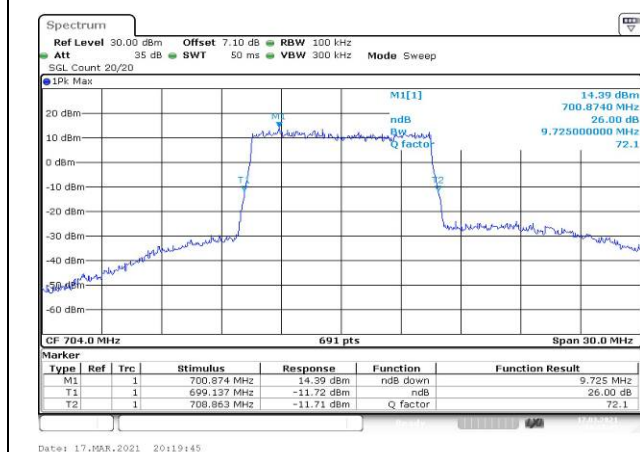


Fig.29

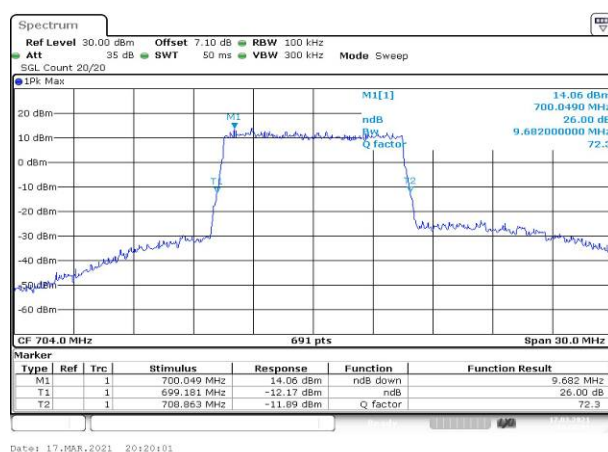


Fig.30

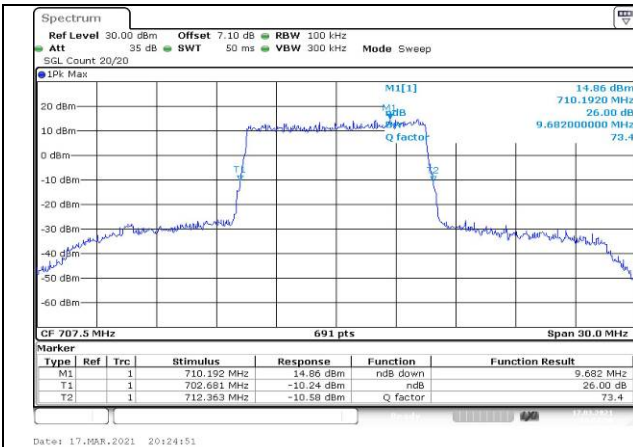


Fig.31

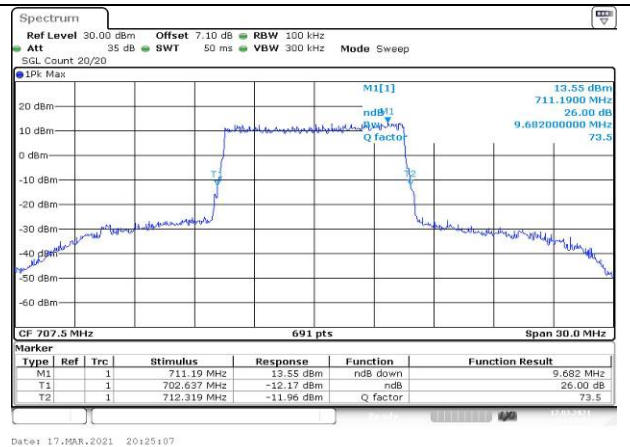


Fig.32

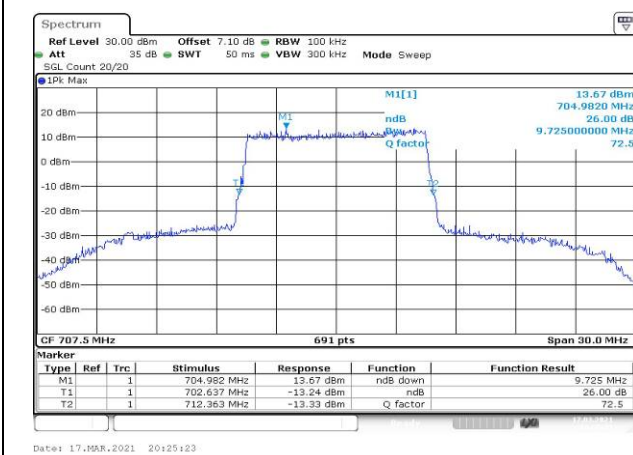


Fig.33

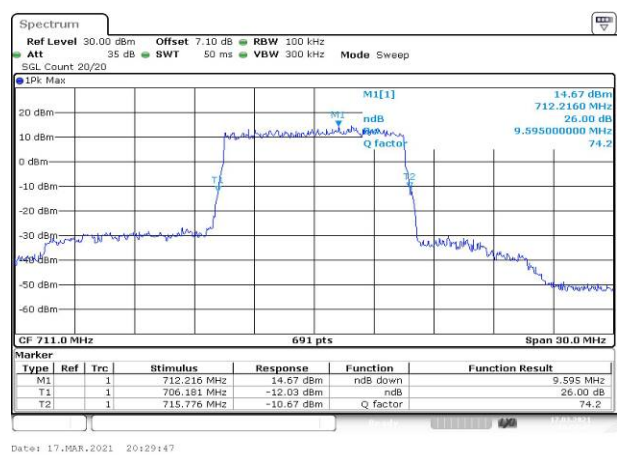


Fig.34

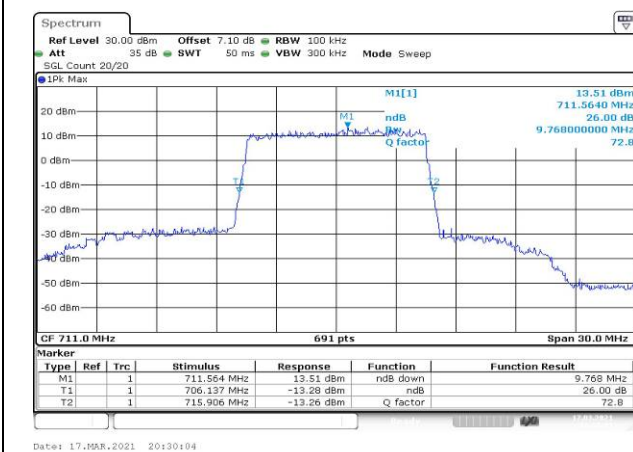


Fig.35

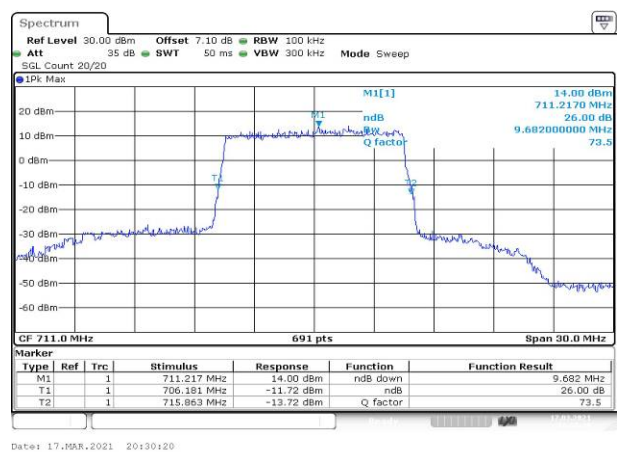


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	699.7	23017	1.4	1	5	Fig.1	Fig.2	Fig.3
	699.7	23017		6	0	Fig.4	Fig.5	Fig.6
	707.5	23095		1	5	Fig.7	Fig.8	Fig.9
	707.5	23095		6	0	Fig.10	Fig.11	Fig.12
	715.3	23173		1	5	Fig.13	Fig.14	Fig.15
	715.3	23173		6	0	Fig.16	Fig.17	Fig.18
	700.5	23025	3	1	14	Fig.19	Fig.20	Fig.21
	700.5	23025		15	0	Fig.22	Fig.23	Fig.24
	707.5	23095		1	14	Fig.25	Fig.26	Fig.27
	707.5	23095		15	0	Fig.28	Fig.29	Fig.30
	714.5	23165		1	14	Fig.31	Fig.32	Fig.33
	714.5	23165		15	0	Fig.34	Fig.35	Fig.36
	701.5	23035	5	1	24	Fig.37	Fig.38	Fig.39
	701.5	23035		25	0	Fig.40	Fig.41	Fig.42
	707.5	23095		1	24	Fig.43	Fig.44	Fig.45
	707.5	23095		25	0	Fig.46	Fig.47	Fig.48
	713.5	23155		1	24	Fig.49	Fig.50	Fig.51
	713.5	23155		25	0	Fig.52	Fig.53	Fig.54
	704	23060	10	1	49	Fig.55	Fig.56	Fig.57
	704	23060		50	0	Fig.58	Fig.59	Fig.60
	707.5	23095		1	49	Fig.61	Fig.62	Fig.63
	707.5	23095		50	0	Fig.64	Fig.65	Fig.66
	711	23130		1	49	Fig.67	Fig.68	Fig.69
	711	23130		50	0	Fig.70	Fig.71	Fig.72

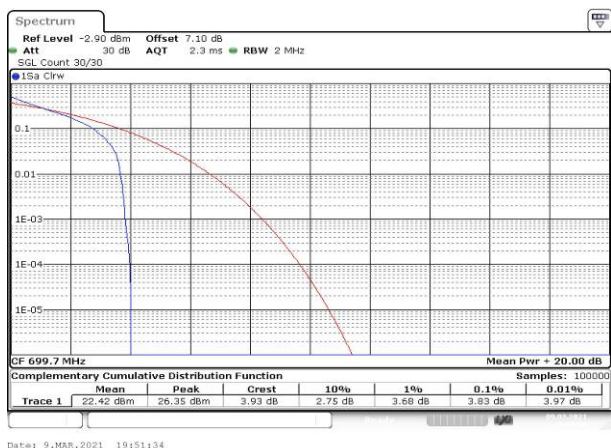


Fig.1

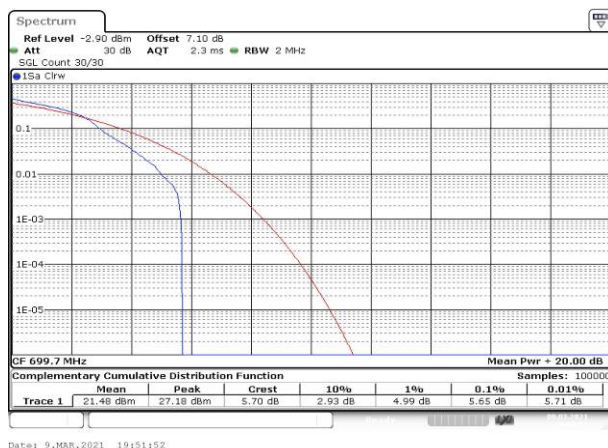


Fig.2

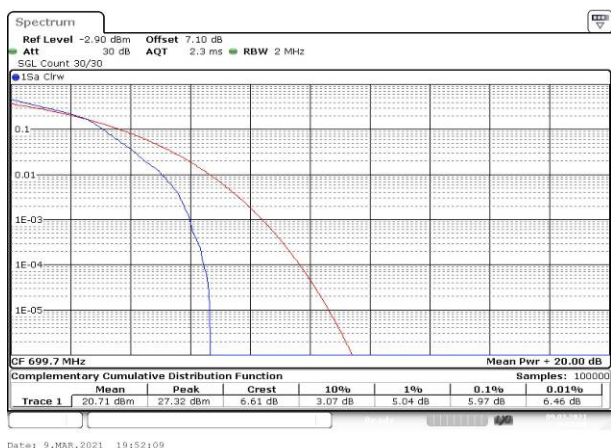


Fig.3

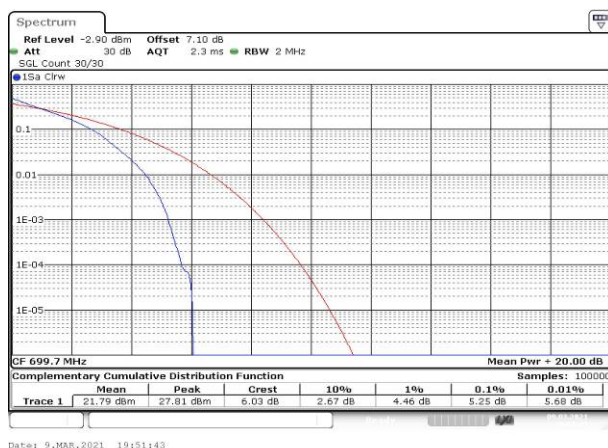


Fig.4

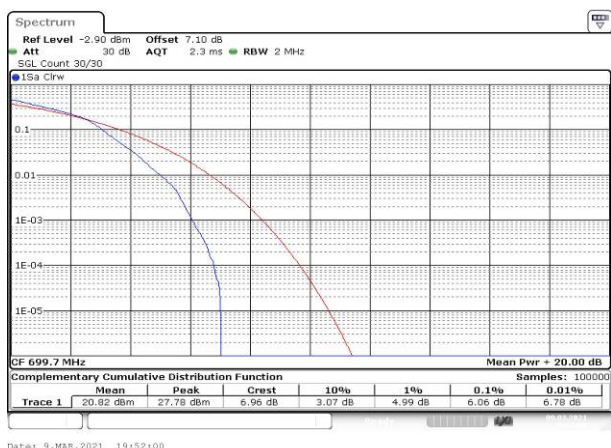


Fig.5

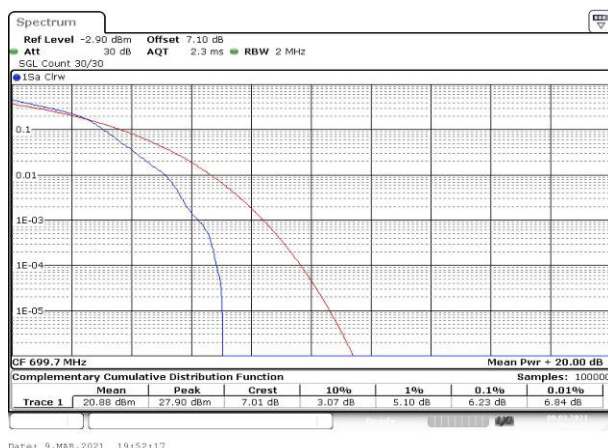


Fig.6

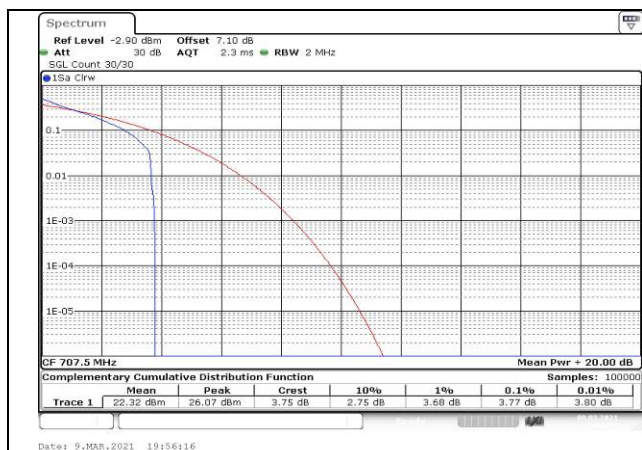


Fig.7

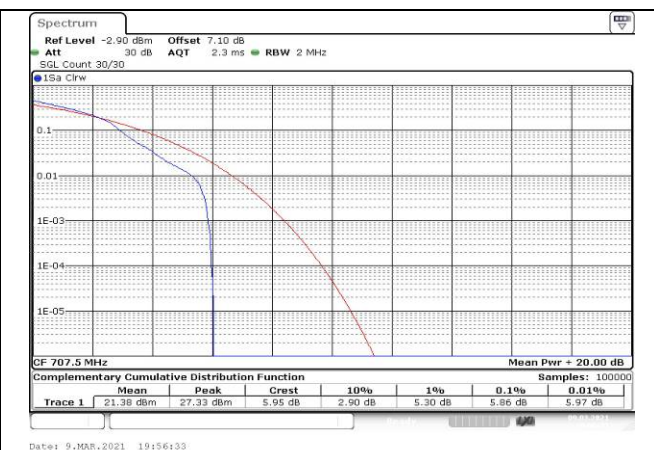


Fig.8

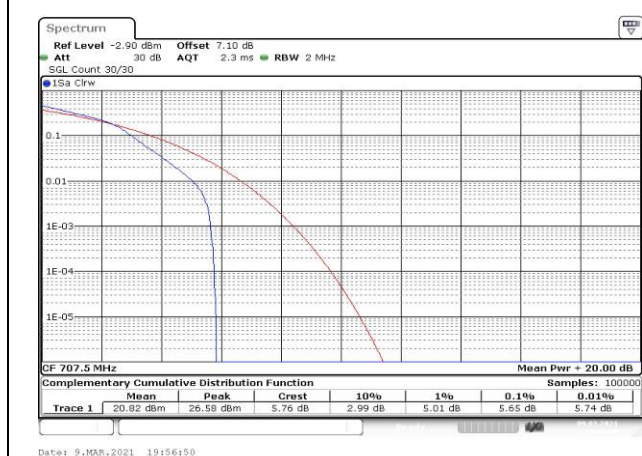


Fig.9

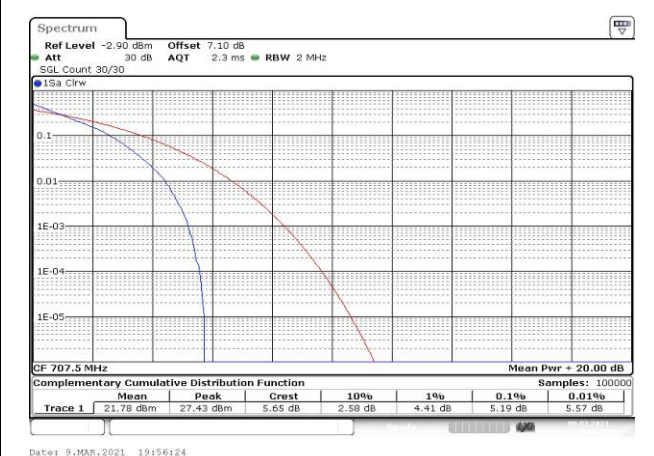


Fig.10

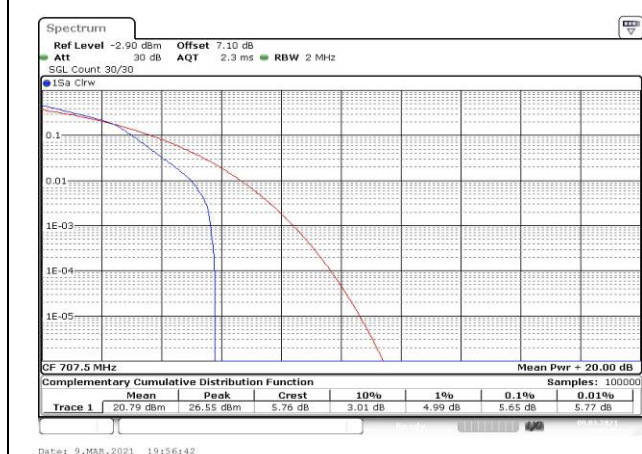


Fig.11

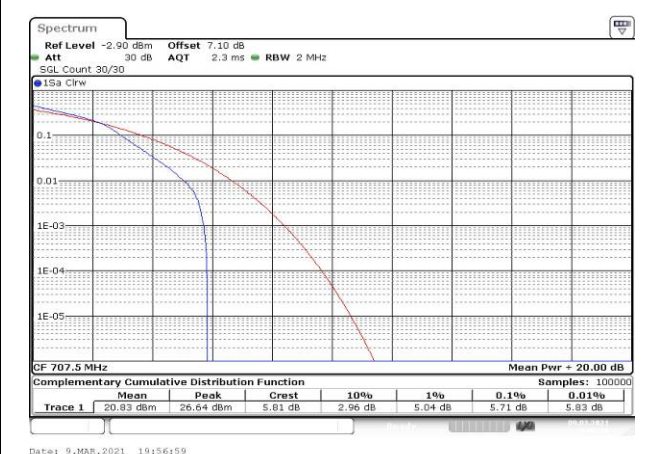


Fig.12

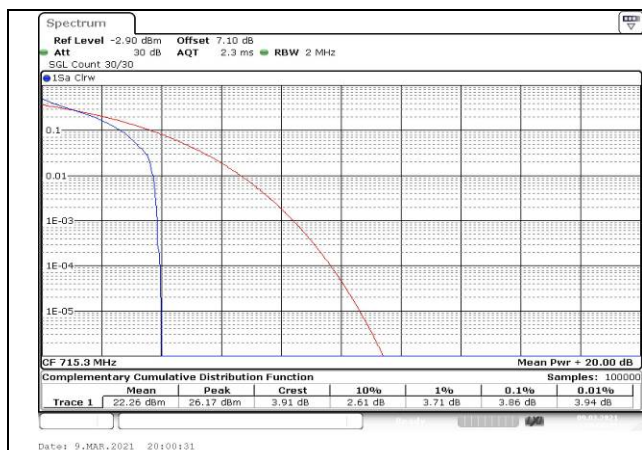


Fig.13

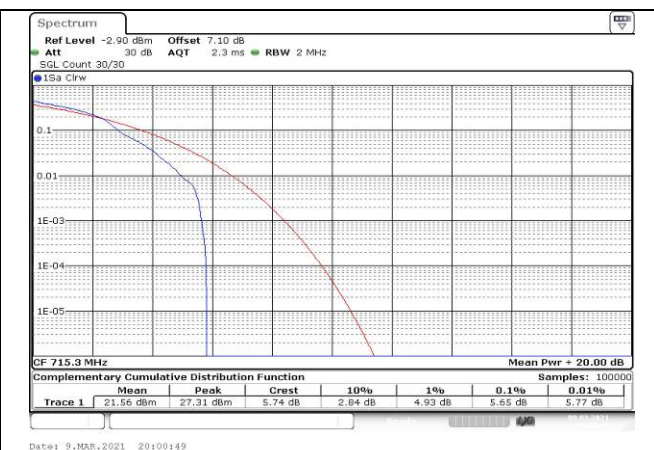


Fig.14

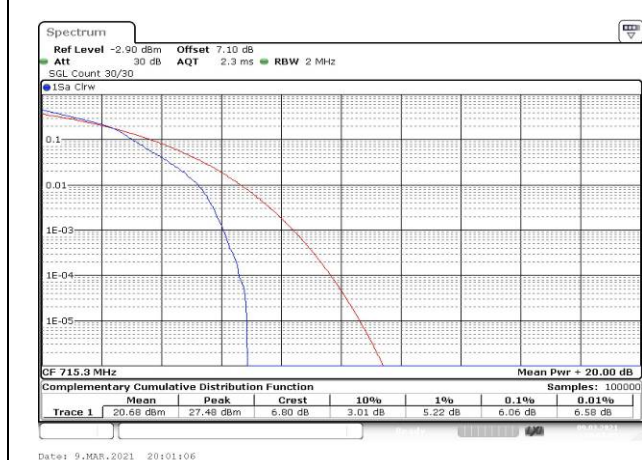


Fig.15

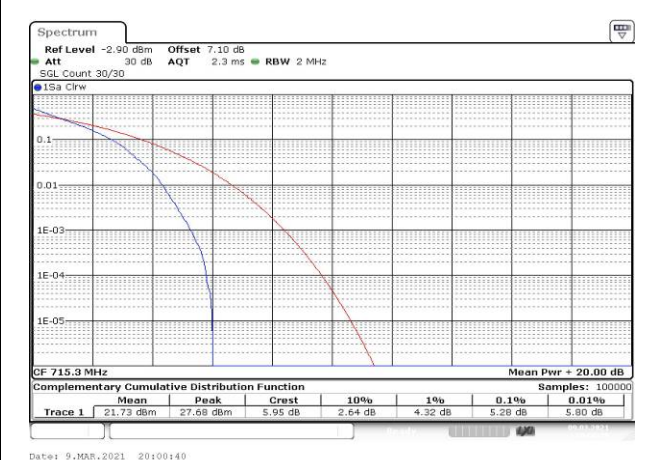


Fig.16

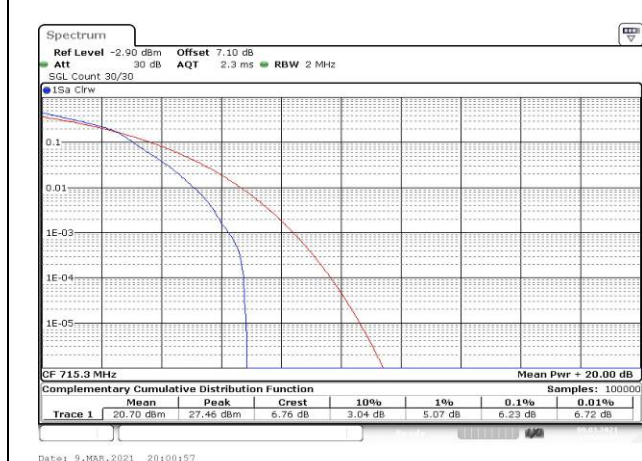


Fig.17

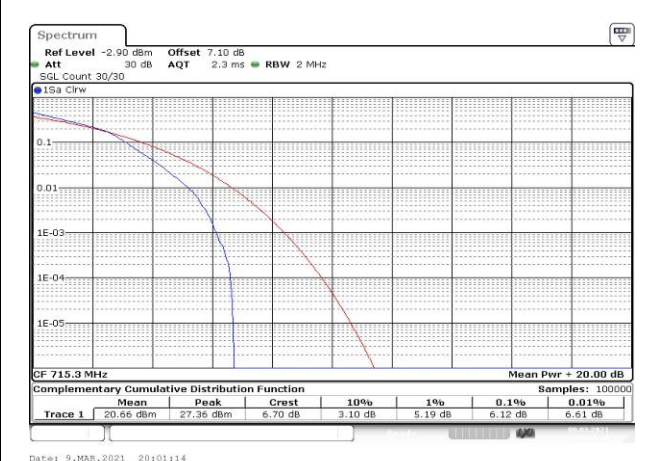


Fig.18