

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 7

1 RF Power Output

RF Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2502.5	20775	5	1	0	20.95	
				1	12	20.34	
				1	24	20.89	
				12	0	20.03	
				12	7	20.08	
				12	13	20.05	
				25	0	20.04	
	2535	21100		1	0	21.62	
				1	12	21.76	
				1	24	21.64	
				12	0	20.77	
				12	7	20.85	
				12	13	20.71	
				25	0	20.64	
	2567.5	21425		1	0	21.74	
				1	12	21.78	
				1	24	21.84	
				12	0	20.97	
				12	7	21.00	
				12	13	21.00	
				25	0	21.03	
	16QAM	2502.5		20775	1	0	19.52
					1	12	19.53
					1	24	19.49
12			0		19.16		
12			7		19.06		
12			13		19.06		
25			0		19.18		
2535		21100	1	0	20.41		
			1	12	20.68		
			1	24	20.71		
			12	0	19.76		
			12	7	19.73		
			12	13	19.72		
			25	0	19.66		
2567.5		21425	1	0	20.91		
			1	12	20.94		
			1	24	20.89		
			12	0	19.97		
12	7	19.73					
12	13	19.87					
25	0	20.02					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2502.5	20775	5	1	0	19.11
				1	12	19.10
				1	24	19.20
				12	0	19.19
				12	7	19.18
				12	13	19.18
				25	0	19.18
	2535	21100		1	0	19.66
				1	12	19.66
				1	24	19.74
				12	0	19.66
				12	7	19.66
				12	13	19.66
				25	0	19.56
	2567.5	21425		1	0	20.02
				1	12	20.03
				1	24	19.93
				12	0	19.88
				12	7	19.88
				12	13	20.14
				25	0	19.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2505	20800	10	1	0	20.93	
				1	25	21.05	
				1	49	21.04	
				25	0	20.17	
				25	12	20.10	
				25	25	20.24	
				50	0	20.11	
	2535	21100		1	0	21.65	
				1	25	21.53	
				1	49	21.71	
				25	0	20.65	
				25	12	20.68	
				25	25	20.68	
				50	0	20.68	
	2565	21400		1	0	21.95	
				1	25	22.05	
				1	49	22.03	
				25	0	20.91	
				25	12	21.07	
				25	25	20.93	
				50	0	20.96	
	16QAM	2505		20800	1	0	20.37
					1	25	20.37
					1	49	20.30
25					0	18.98	
25					12	19.25	
25					25	19.18	
50					0	19.20	
2535		21100		1	0	21.25	
				1	25	21.33	
			1	49	21.47		
			25	0	19.65		
			25	12	19.79		
			25	25	19.79		
			50	0	19.67		
2565		21400	1	0	20.63		
			1	25	20.72		
			1	49	20.73		
			25	0	20.08		
			25	12	20.26		
			25	25	20.16		
			50	0	20.01		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2505	20800	10	1	0	19.20
				1	25	19.11
				1	49	19.11
				25	0	19.10
				25	12	19.35
				25	25	19.09
				50	0	18.99
	2535	21100		1	0	19.67
				1	25	19.68
				1	49	19.68
				25	0	19.68
				25	12	19.68
				25	25	19.67
				50	0	19.68
	2565	21400		1	0	20.05
				1	25	20.04
				1	49	20.04
				25	0	20.03
				25	12	20.04
				25	25	20.01
				50	0	20.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2507.5	20825	15	1	0	21.41	
				1	37	21.35	
				1	74	21.45	
				36	0	20.52	
				36	29	20.54	
				36	30	20.42	
				75	0	20.41	
	2535	21100		1	0	21.31	
				1	37	21.57	
				1	74	21.55	
				36	0	20.48	
				36	29	20.57	
				36	30	20.57	
				75	0	20.43	
	2562.5	21375		1	0	21.67	
				1	37	21.76	
				1	74	21.89	
				36	0	20.69	
				36	29	20.77	
				36	30	20.78	
				75	0	20.68	
	16QAM	2507.5		20825	1	0	20.98
					1	37	20.94
					1	74	20.89
36					0	19.84	
36					29	19.82	
36					30	19.92	
75					0	19.52	
2535		21100	1	0	20.50		
			1	37	20.78		
			1	74	20.70		
			36	0	19.77		
			36	29	19.63		
			36	30	19.67		
			75	0	19.16		
2562.5		21375	1	0	21.11		
			1	37	21.16		
			1	74	21.16		
			36	0	19.72		
			36	29	19.83		
			36	30	19.83		
75	0	19.80					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2507.5	20825	15	1	0	21.00
				1	37	20.93
				1	74	21.01
				36	0	20.97
				36	29	20.94
				36	30	20.91
				75	0	20.89
	2535	21100		1	0	19.17
				1	37	19.16
				1	74	19.46
				36	0	19.18
				36	29	19.17
				36	30	19.61
				75	0	19.60
	2562.5	21375		1	0	19.82
				1	37	19.82
				1	74	19.82
				36	0	19.82
				36	29	19.82
				36	30	19.81
				75	0	19.81

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2510	20850	20	1	0	21.23	
				1	49	21.22	
				1	99	21.26	
				50	0	20.13	
				50	24	20.23	
				50	50	20.22	
	100	0		20.10			
	2535	21100		1	0	21.77	
				1	49	21.92	
				1	99	21.91	
				50	0	20.60	
				50	24	20.80	
				50	50	20.80	
	100	0		20.55			
	2560	21350		1	0	22.03	
				1	49	22.11	
				1	99	22.11	
				50	0	20.93	
				50	24	21.01	
				50	50	21.01	
	100	0		20.95			
	16QAM	2510		20850	1	0	20.12
					1	49	20.16
					1	99	20.16
50					0	19.23	
50					24	19.30	
50					50	19.31	
100		0		19.23			
2535		21100		1	0	20.99	
				1	49	21.46	
			1	99	21.31		
			50	0	19.64		
			50	24	19.80		
			50	50	19.80		
100		0	19.61				
2560		21350	1	0	21.48		
			1	49	21.55		
			1	99	21.50		
			50	0	19.96		
			50	24	20.02		
			50	50	19.95		
100		0	19.99				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2510	20850	20	1	0	19.14
				1	49	19.23
				1	99	19.23
				50	0	19.14
				50	24	19.15
				50	50	19.14
				100	0	19.14
	2535	21100		1	0	19.62
				1	49	19.62
				1	99	19.62
				50	0	19.62
				50	24	19.62
				50	50	19.62
				100	0	19.62
	2560	21350		1	0	19.99
				1	49	19.98
				1	99	19.97
				50	0	19.98
				50	24	19.98
				50	50	19.97
				100	0	19.97

2 Occupied Bandwidth

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	4.472	Fig.1	4.472	Fig.2	4.472	Fig.3
	2535	21100		25	0	4.472	Fig.4	4.472	Fig.5	4.472	Fig.6
	2567.5	21425		25	0	4.472	Fig.7	4.472	Fig.8	4.472	Fig.9
	2505	20800	10	50	0	8.944	Fig.10	8.944	Fig.11	8.944	Fig.12
	2535	21100		50	0	8.944	Fig.13	8.944	Fig.14	8.944	Fig.15
	2565	21400		50	0	8.944	Fig.16	8.944	Fig.17	8.944	Fig.18
	2507.5	20825	15	75	0	13.415	Fig.19	13.415	Fig.20	13.415	Fig.21
	2535	21100		75	0	13.546	Fig.22	13.480	Fig.23	13.415	Fig.24
	2562.5	21375		75	0	13.415	Fig.25	13.415	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	17.887	Fig.36

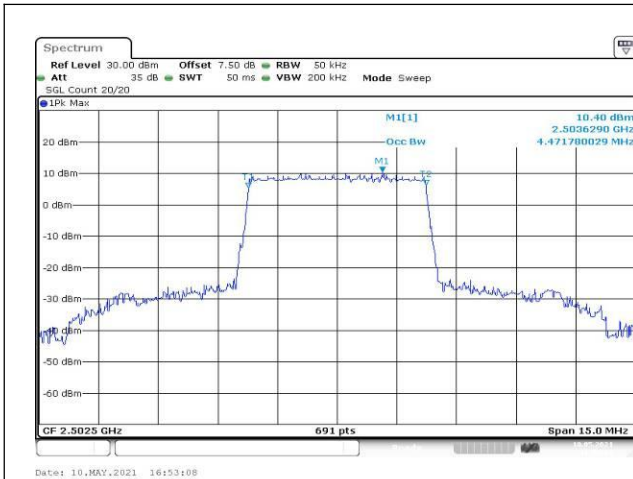


Fig.1

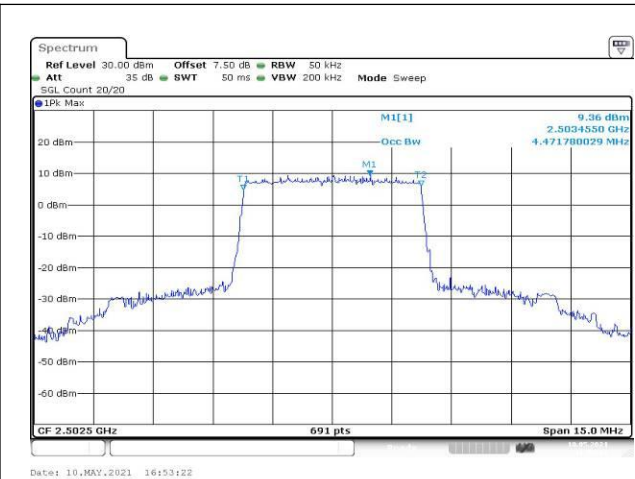


Fig.2

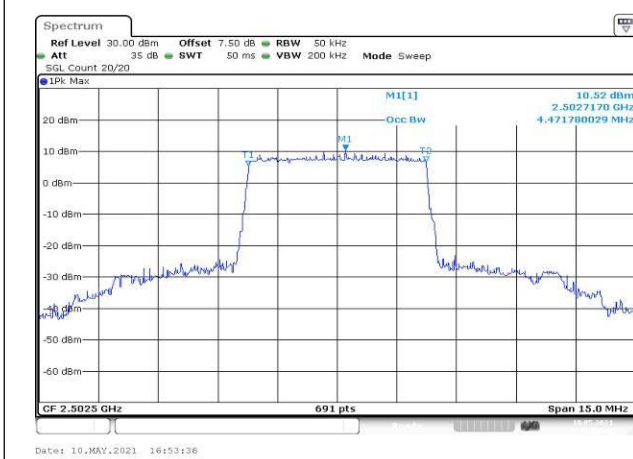


Fig.3

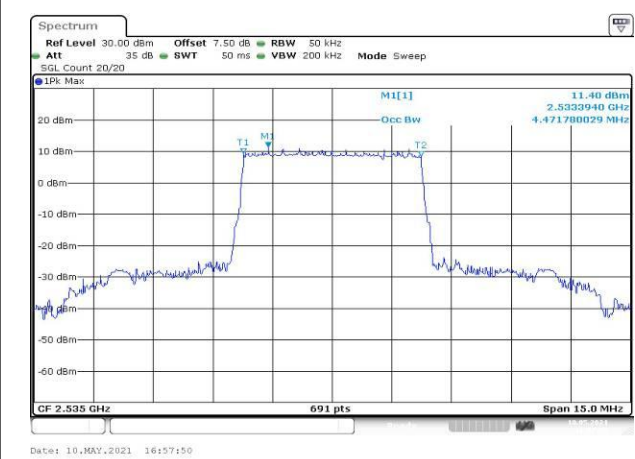


Fig.4

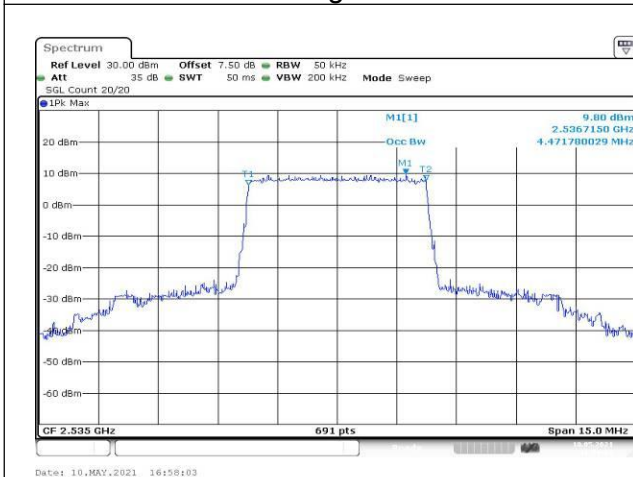


Fig.5

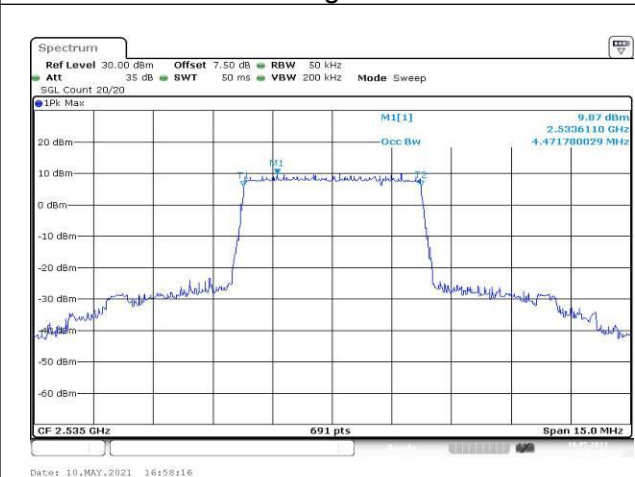


Fig.6

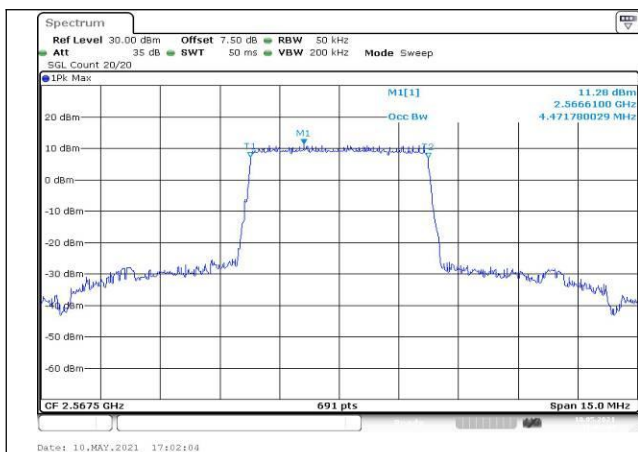


Fig.7

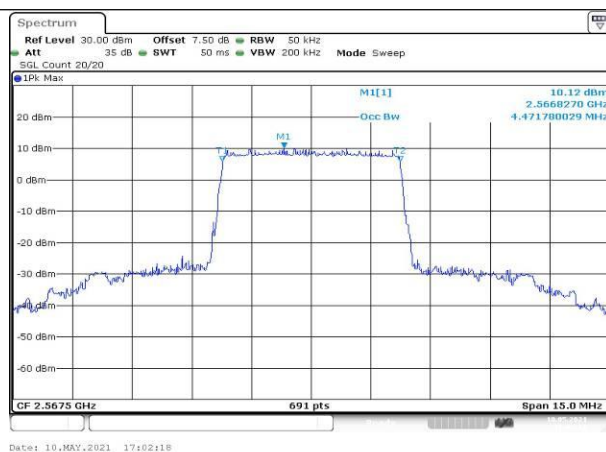


Fig.8

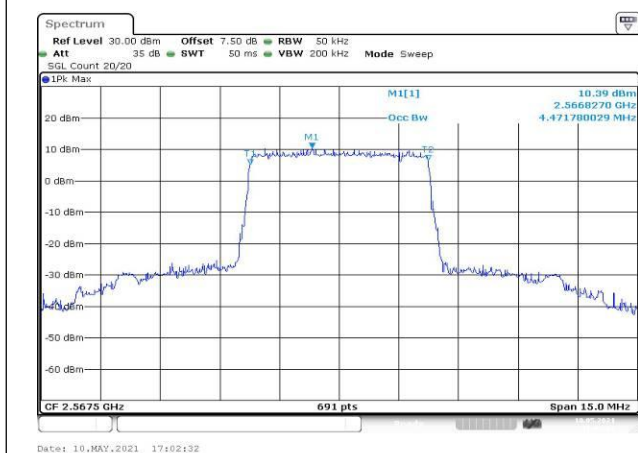


Fig.9

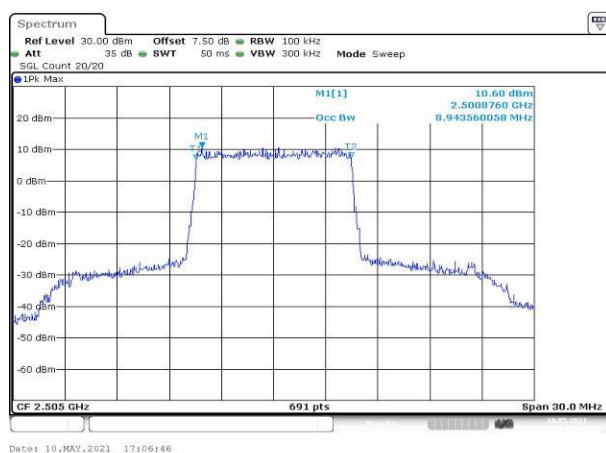


Fig.10

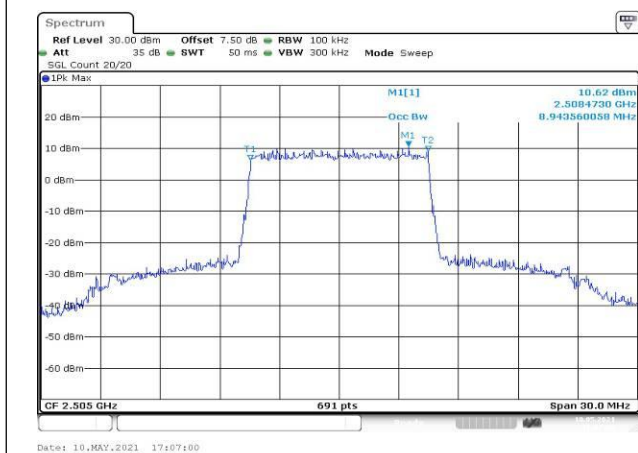


Fig.11

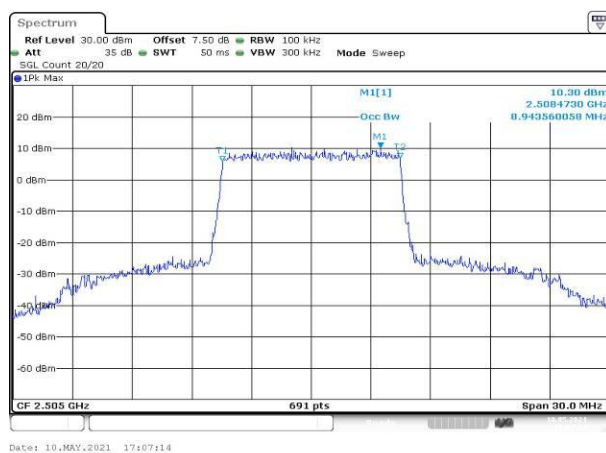


Fig.12

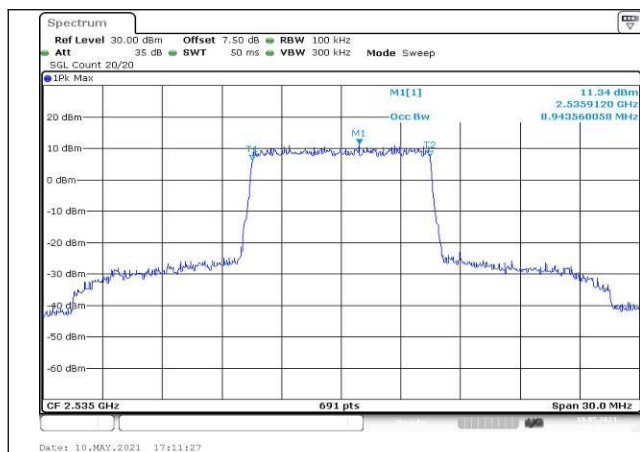


Fig.13

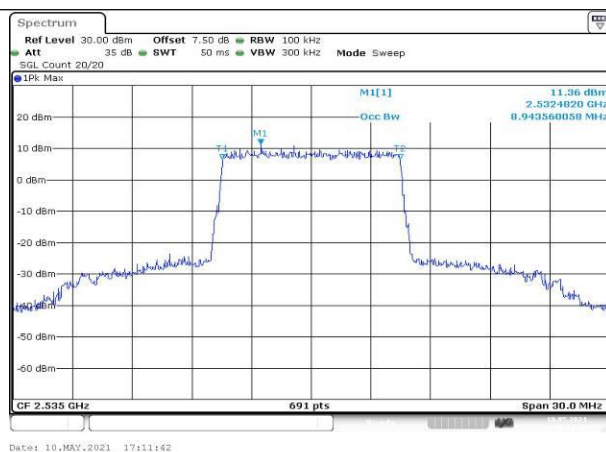


Fig.14

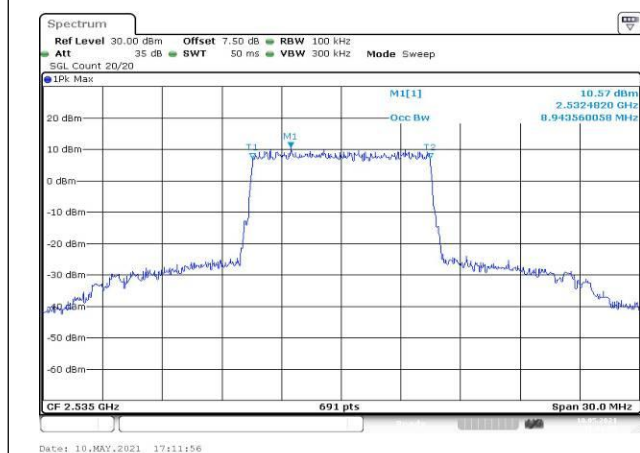


Fig.15

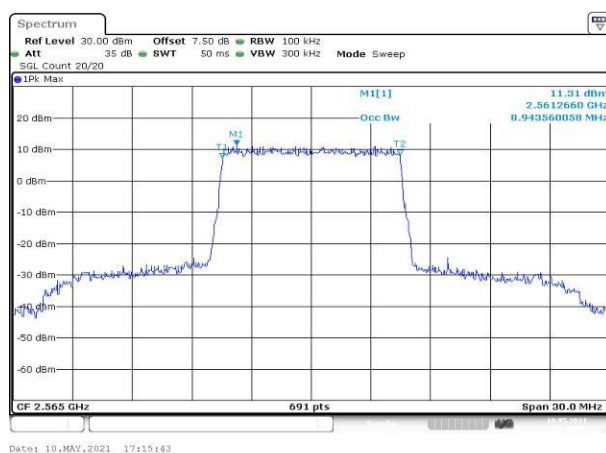


Fig.16

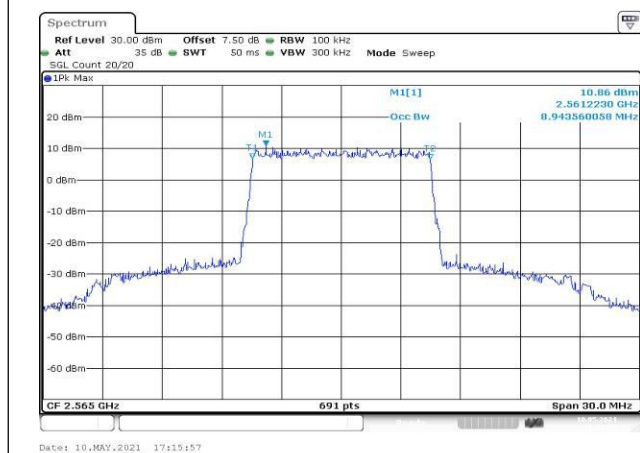


Fig.17

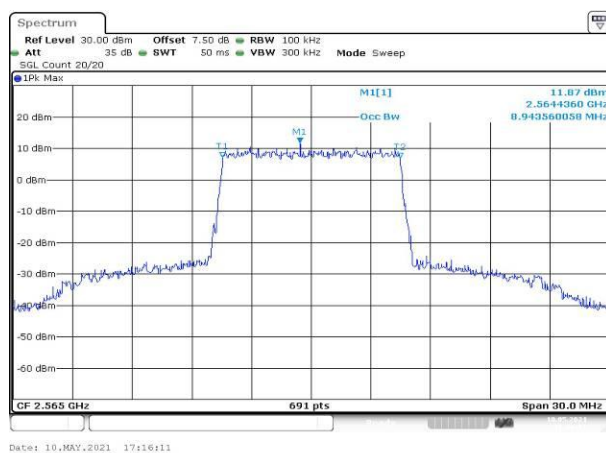
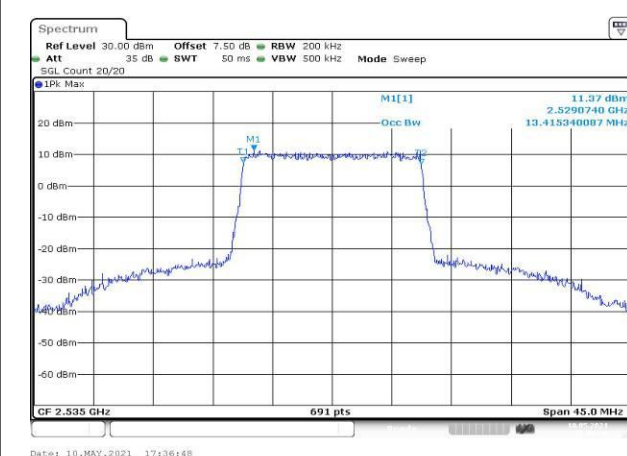
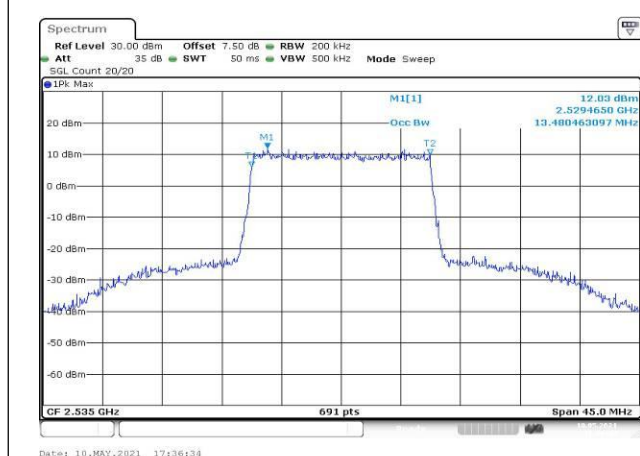
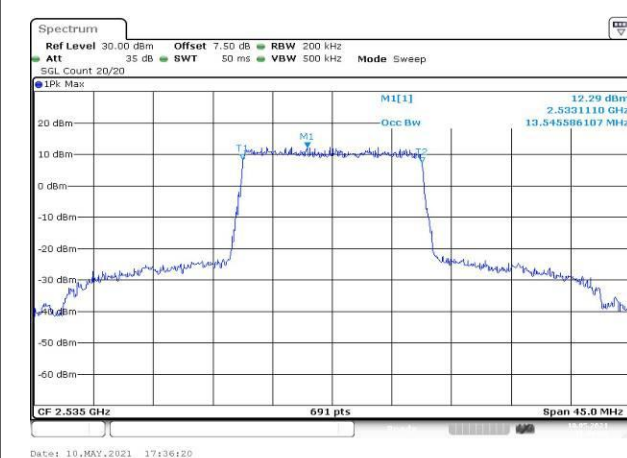
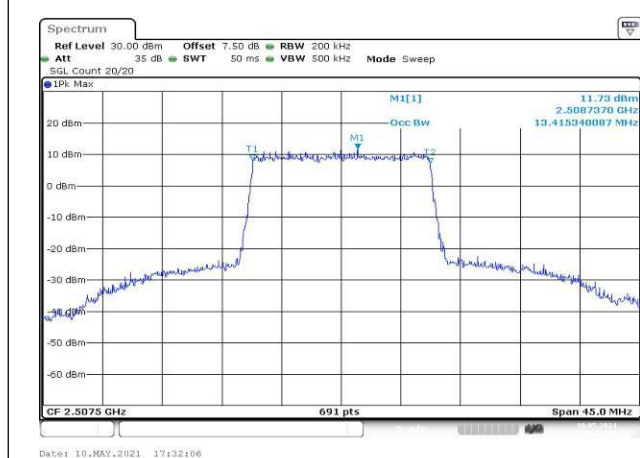
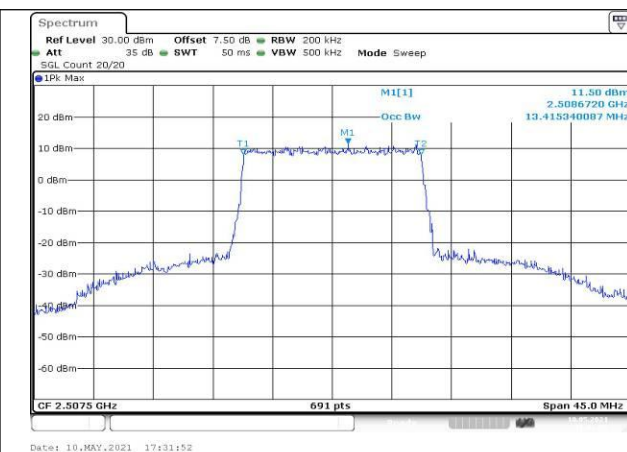
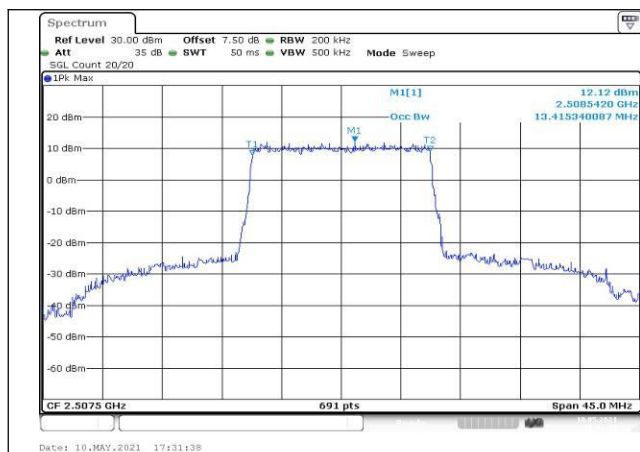
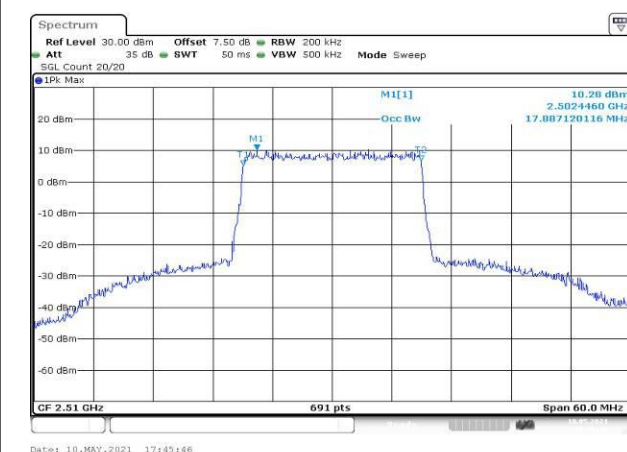
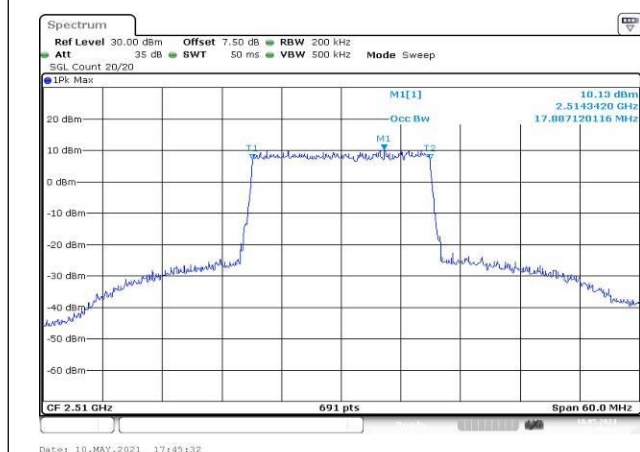
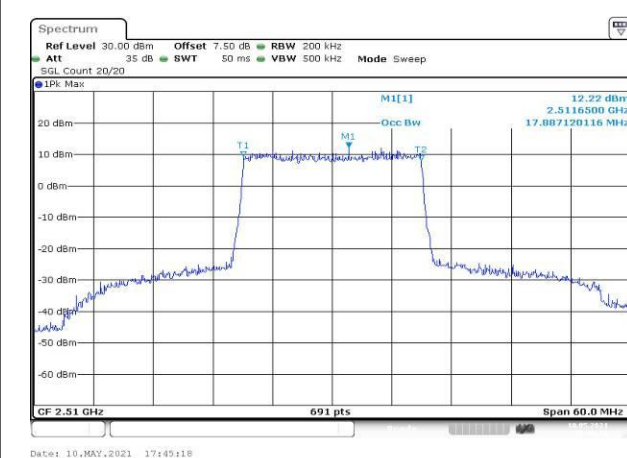
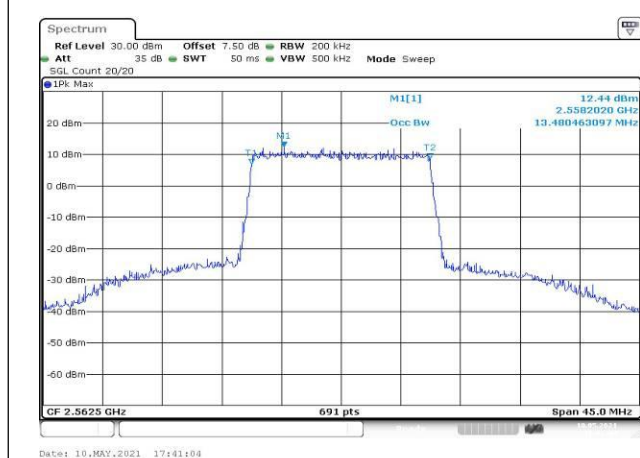
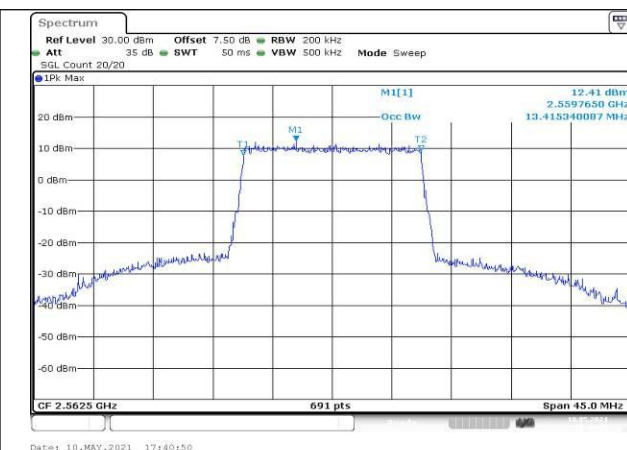
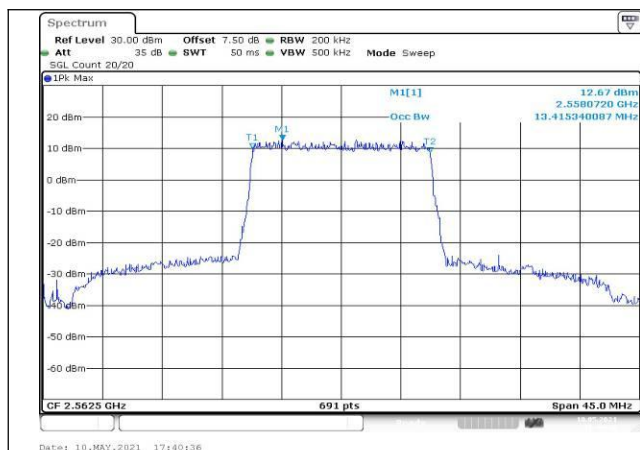
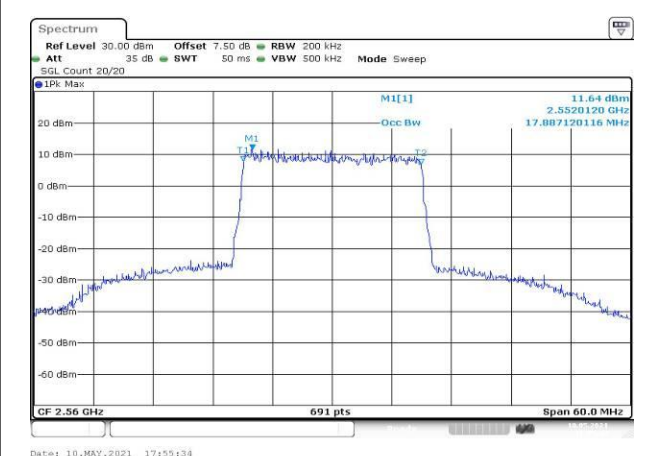
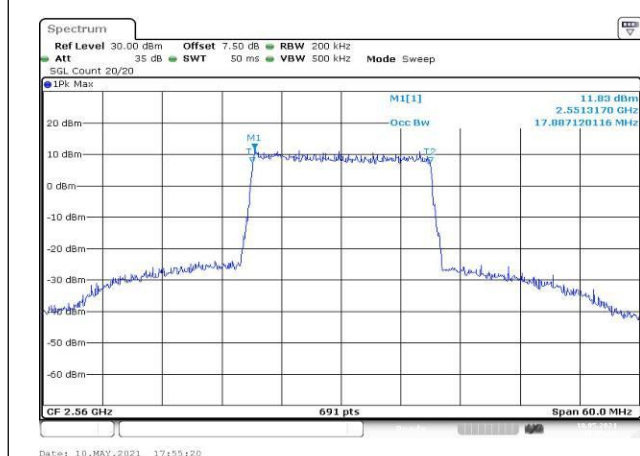
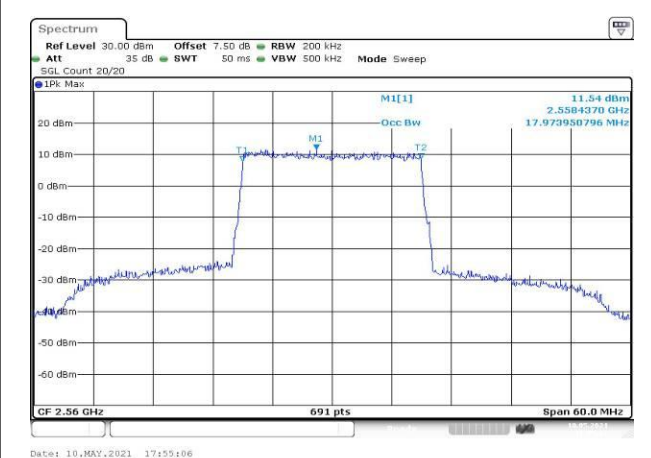
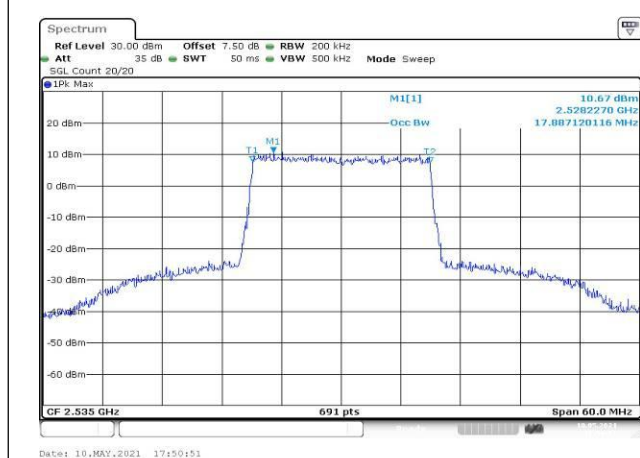
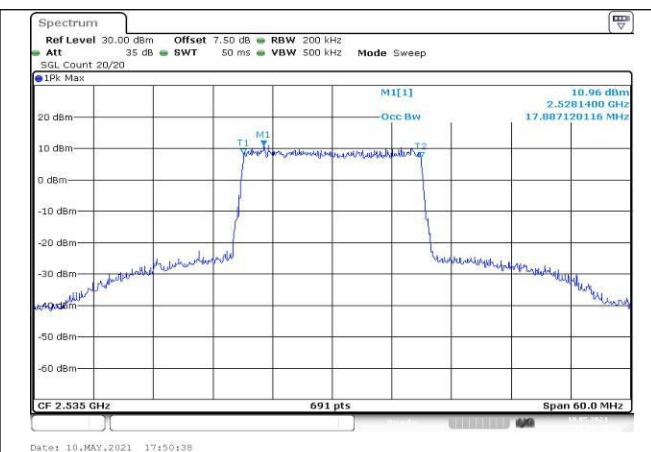
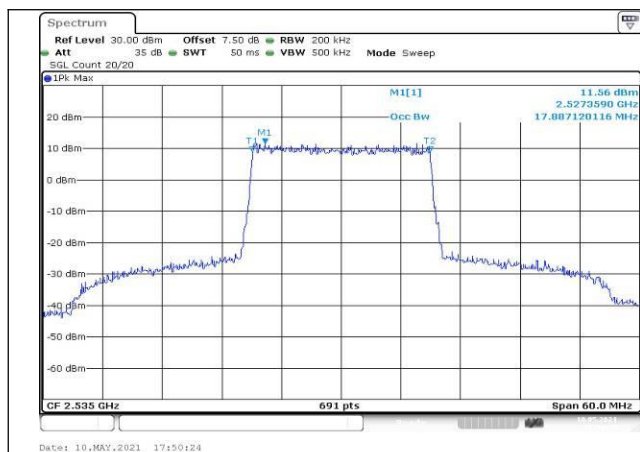


Fig.18







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	
7	2502.5	20775	5	25	0	4.884	Fig.1	4.841	Fig.2	4.906	Fig.3
	2535	21100		25	0	4.906	Fig.4	4.906	Fig.5	4.884	Fig.6
	2567.5	21425		25	0	4.928	Fig.7	4.906	Fig.8	4.906	Fig.9
	2505	20800	10	50	0	9.768	Fig.10	9.725	Fig.11	9.768	Fig.12
	2535	21100		50	0	9.682	Fig.13	9.768	Fig.14	9.725	Fig.15
	2565	21400		50	0	9.725	Fig.16	9.725	Fig.17	9.768	Fig.18
	2507.5	20825	15	75	0	14.588	Fig.19	14.588	Fig.20	14.783	Fig.21
	2535	21100		75	0	14.718	Fig.22	14.653	Fig.23	14.783	Fig.24
	2562.5	21375		75	0	14.653	Fig.25	14.718	Fig.26	14.588	Fig.27
	2510	20850	20	100	0	19.276	Fig.28	19.450	Fig.29	19.363	Fig.30
	2535	21100		100	0	19.276	Fig.31	19.276	Fig.32	19.450	Fig.33
	2560	21350		100	0	19.450	Fig.34	19.450	Fig.35	19.276	Fig.36

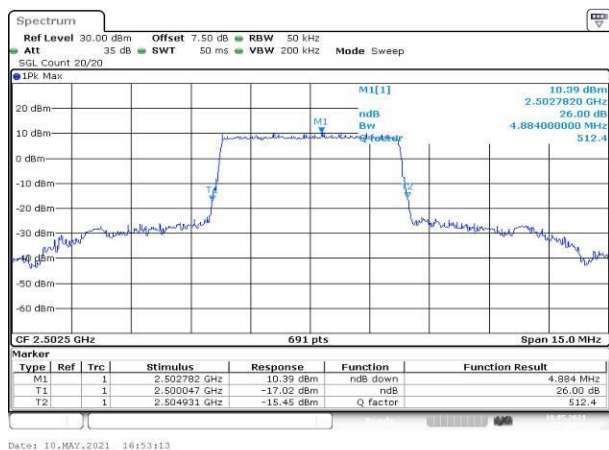


Fig.1

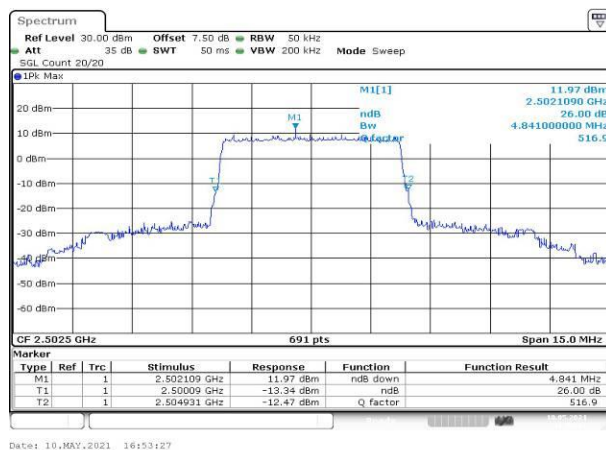


Fig.2

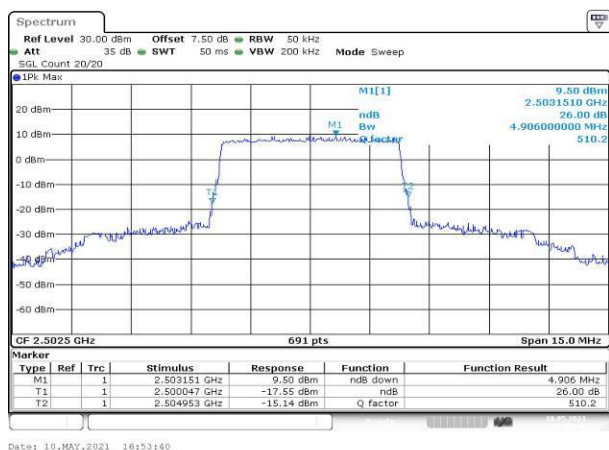


Fig.3

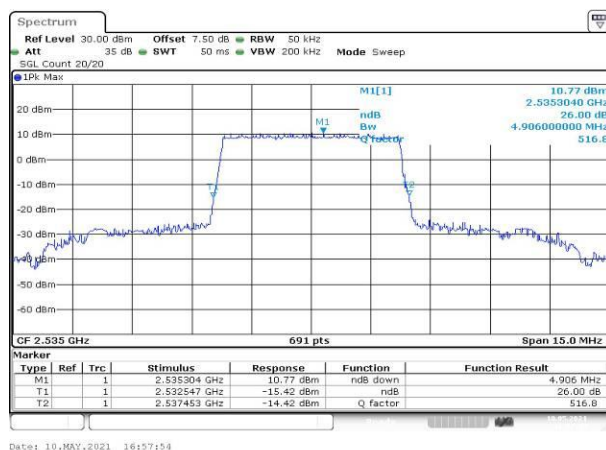


Fig.4

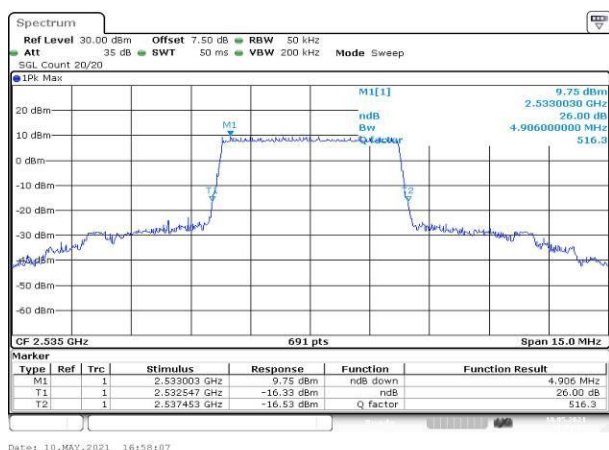


Fig.5

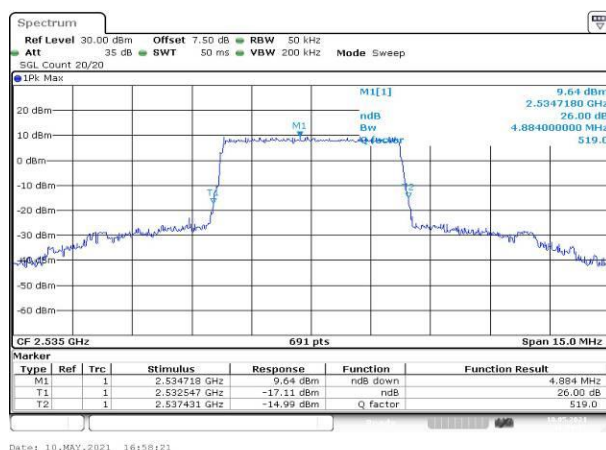


Fig.6

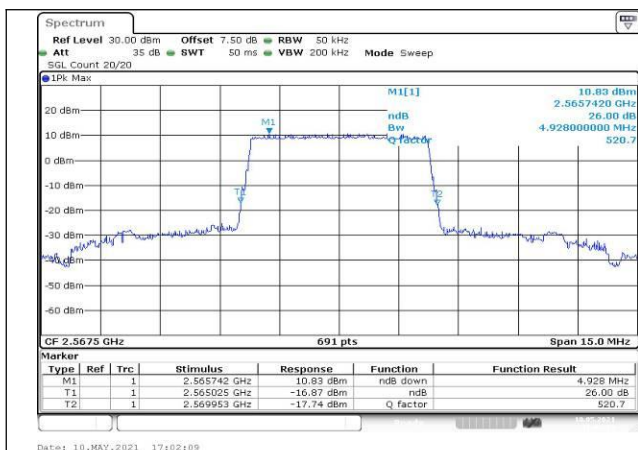


Fig.7

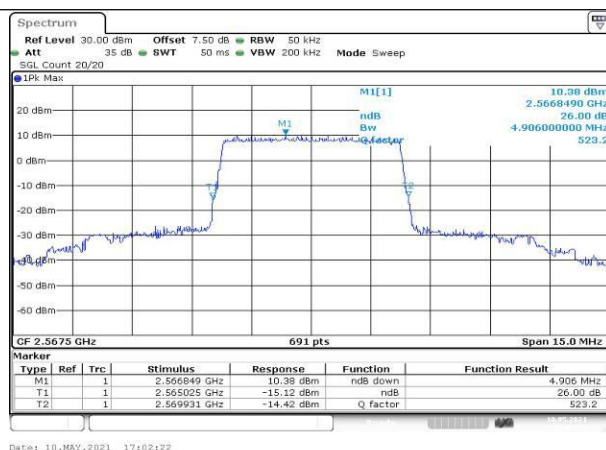


Fig.8

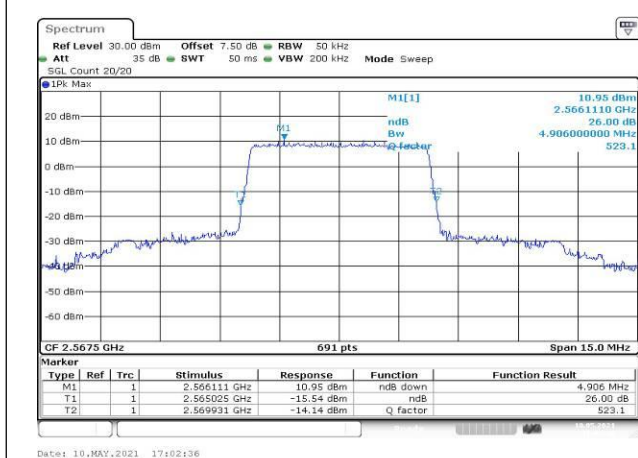


Fig.9

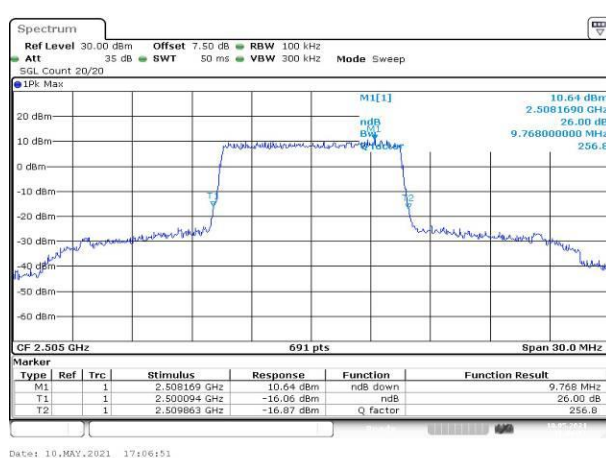


Fig.10

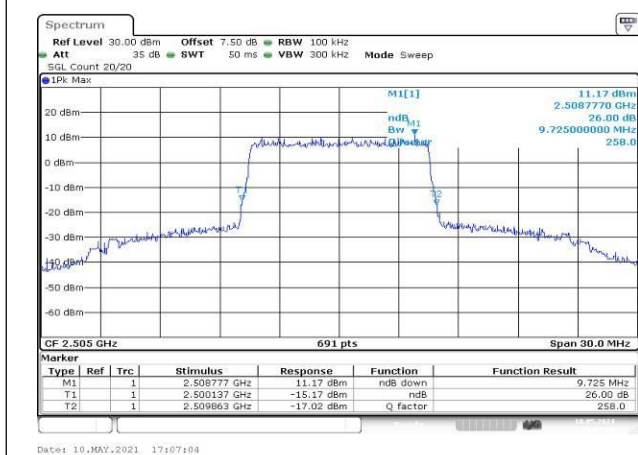


Fig.11

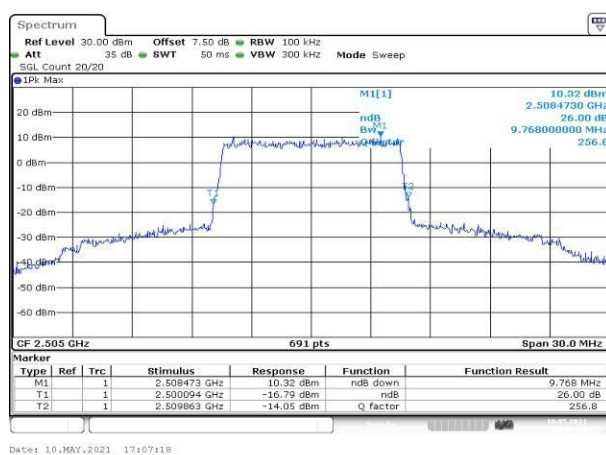


Fig.12

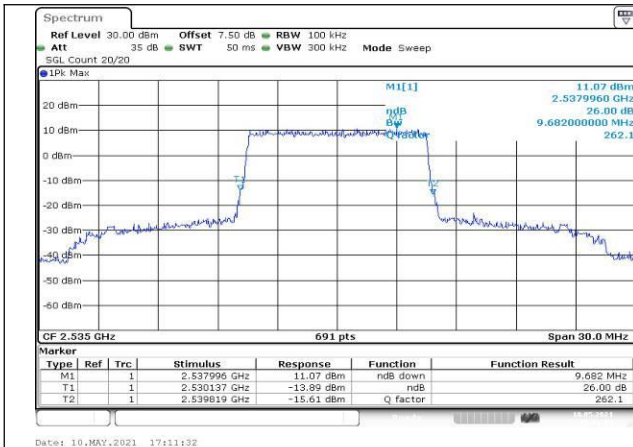


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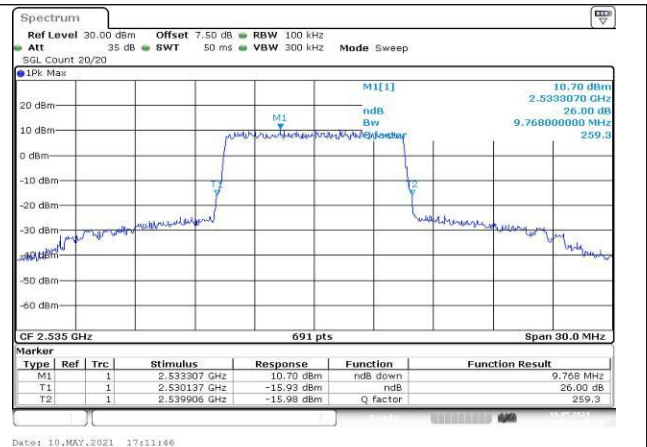


Fig.14

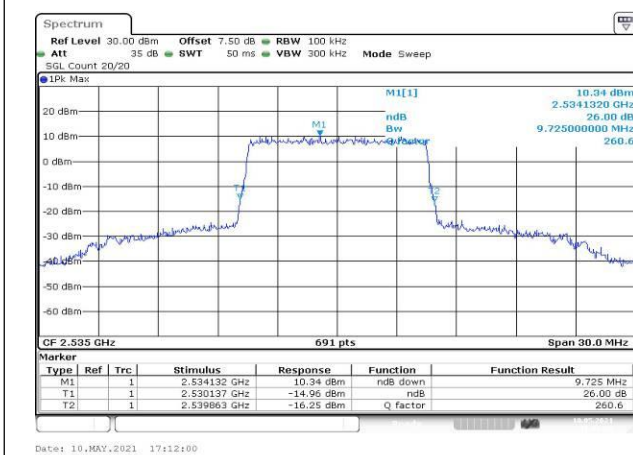


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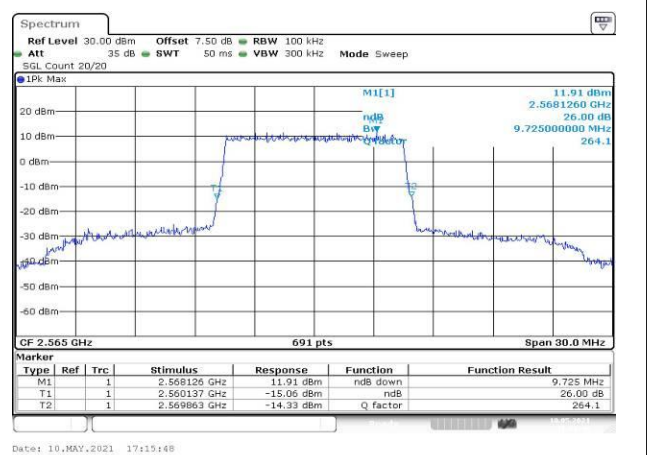


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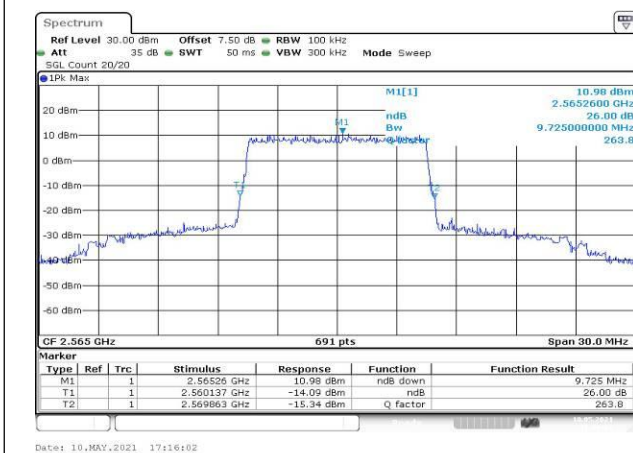


Fig.17

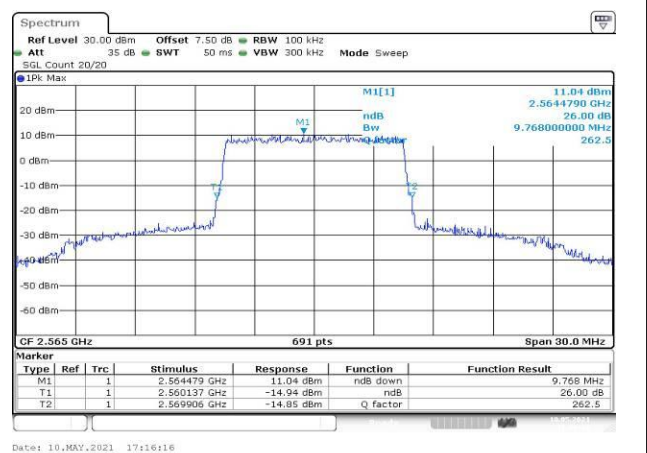


Fig.18

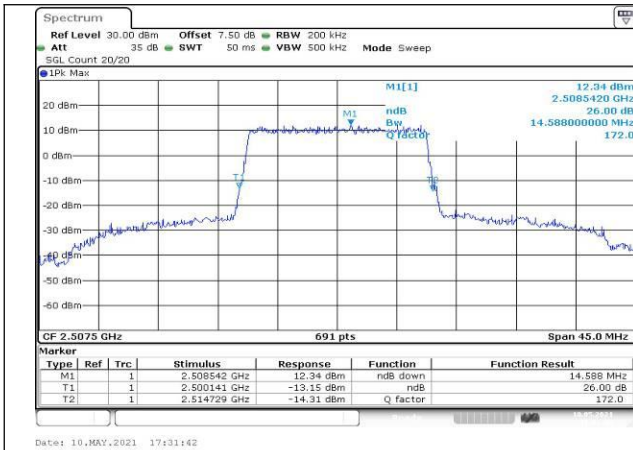


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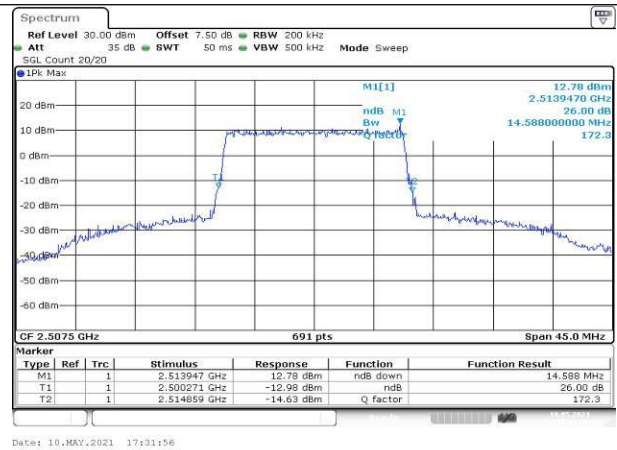


Fig.20

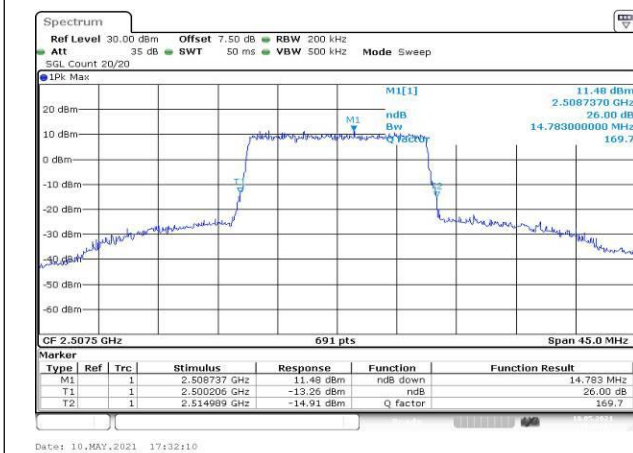


Fig.21

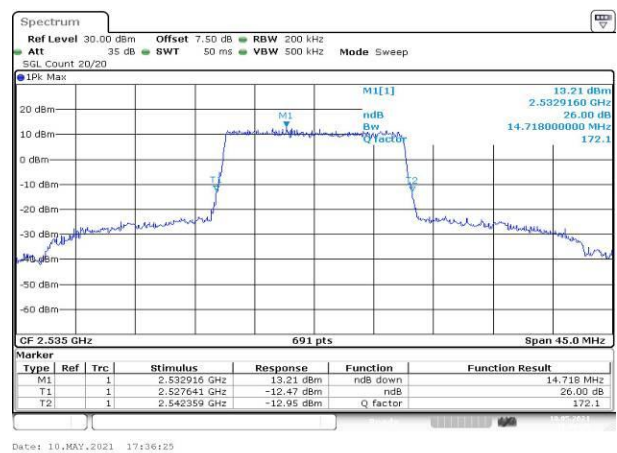


Fig.22

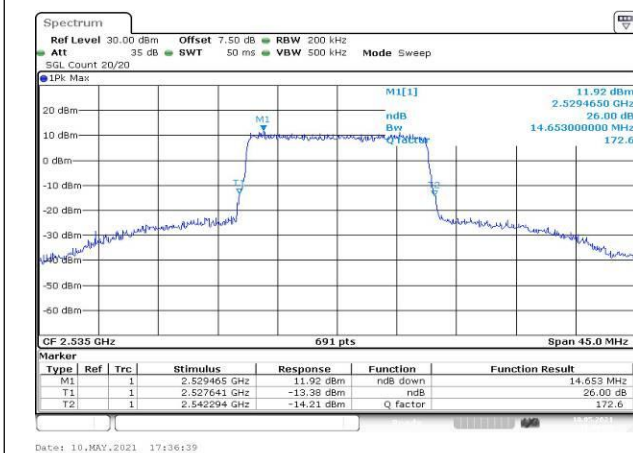


Fig.23

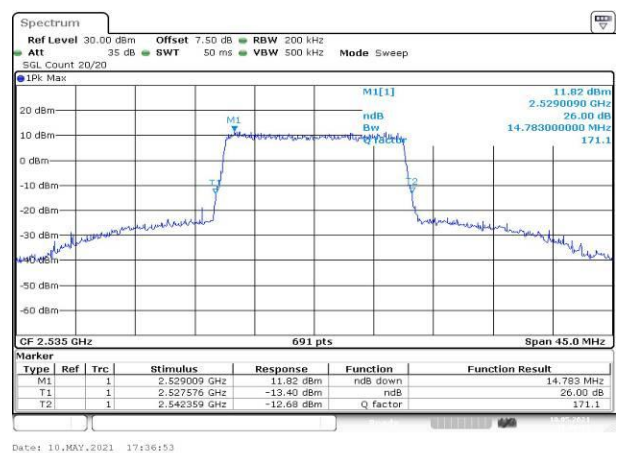


Fig.24

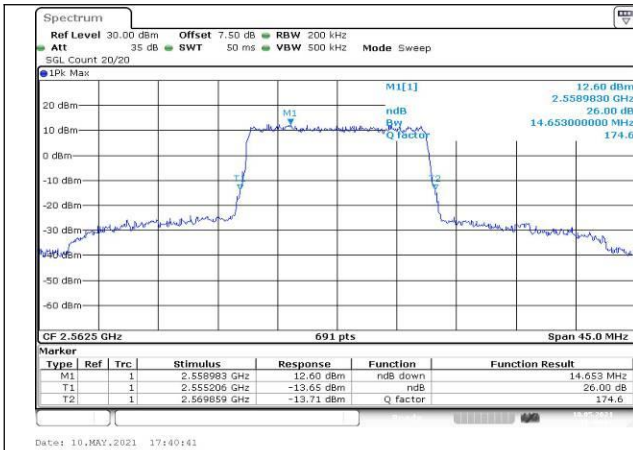


Fig.25

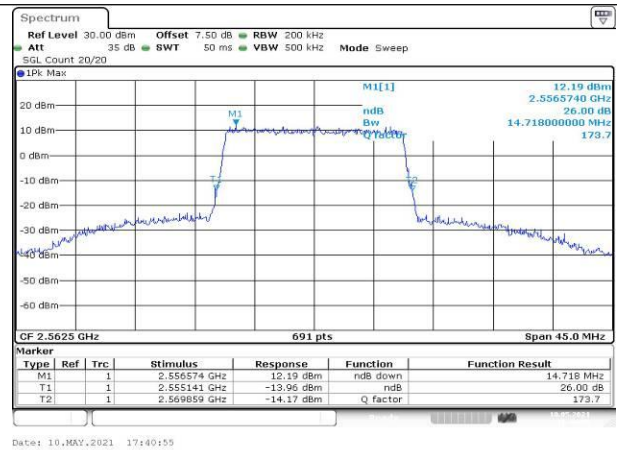


Fig.26

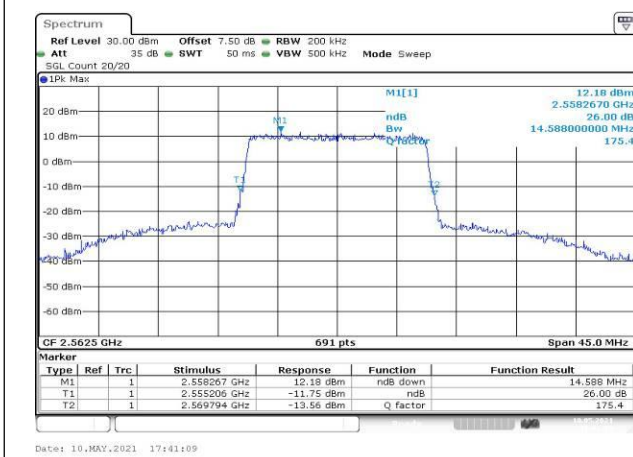


Fig.27

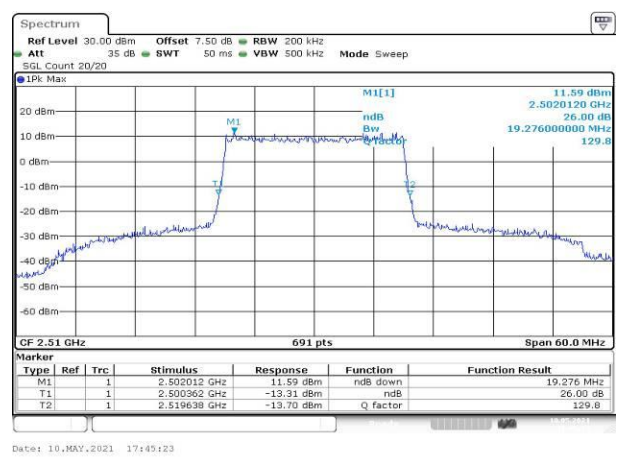


Fig.28

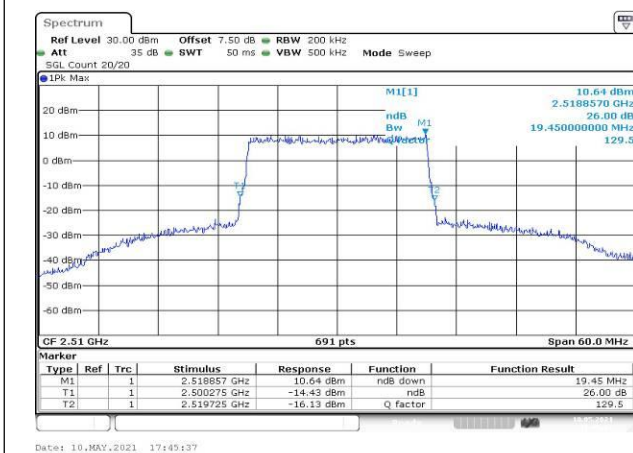


Fig.29

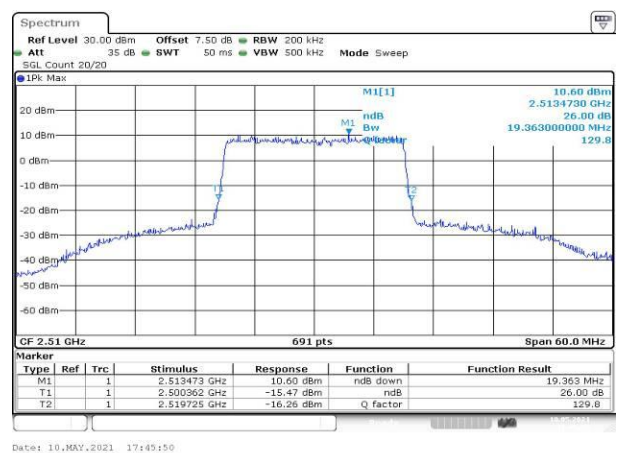


Fig.30

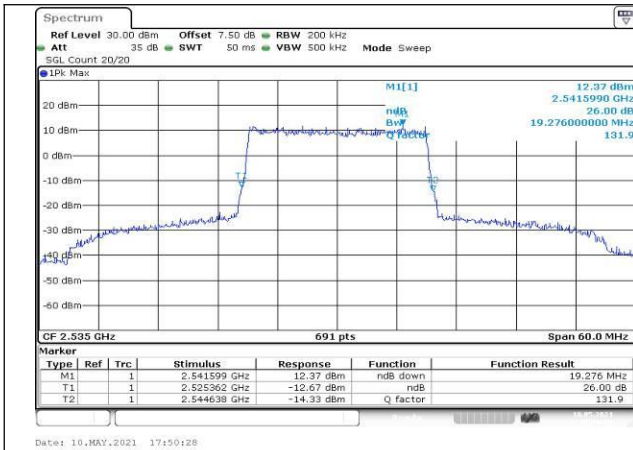


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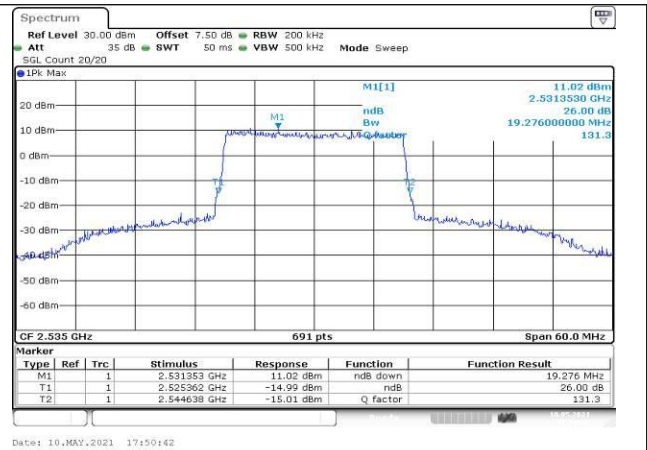


Fig.32

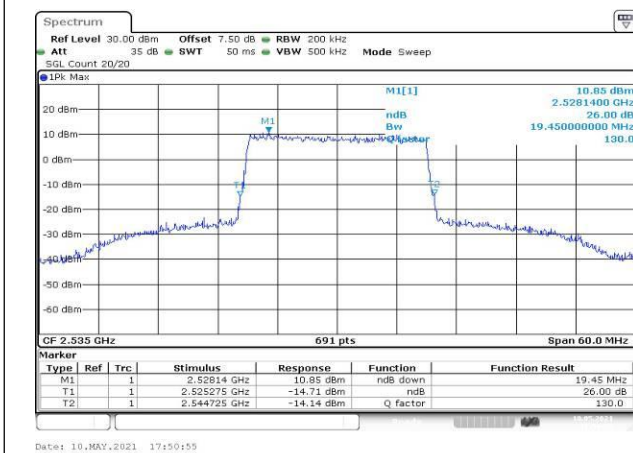


Fig.33

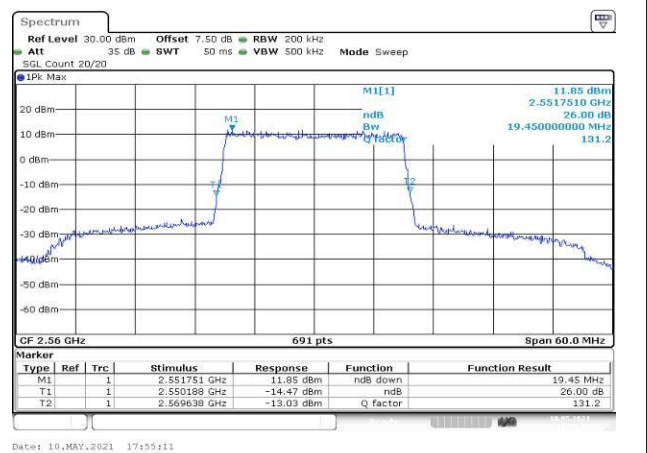


Fig.34

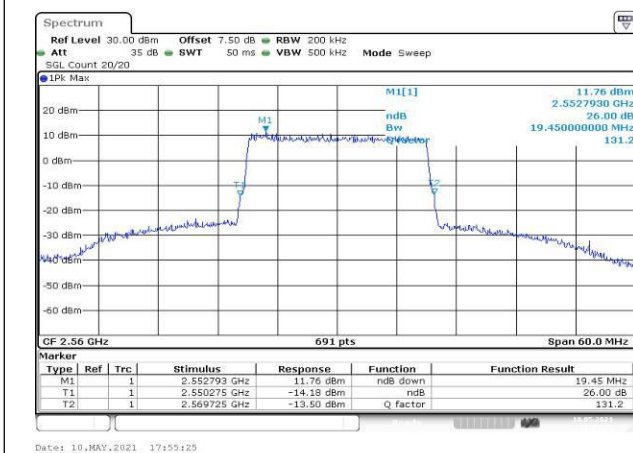


Fig.35

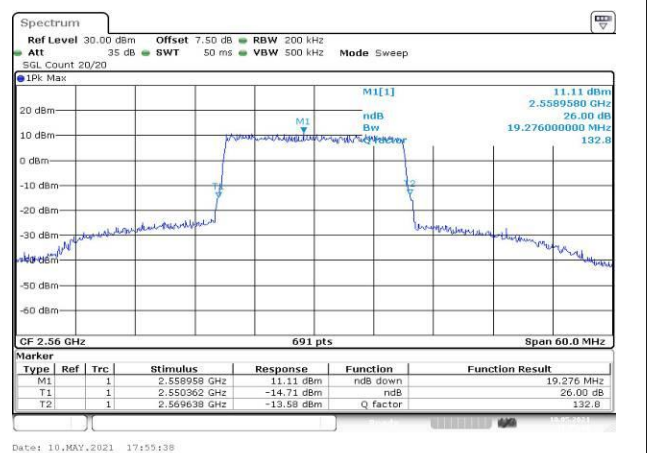


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
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

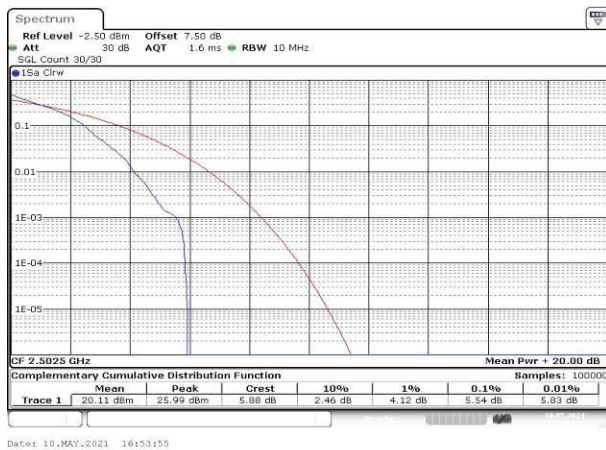


Fig.1

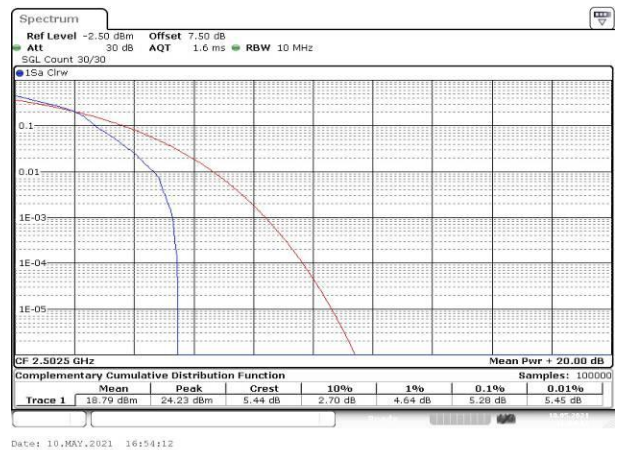


Fig.2

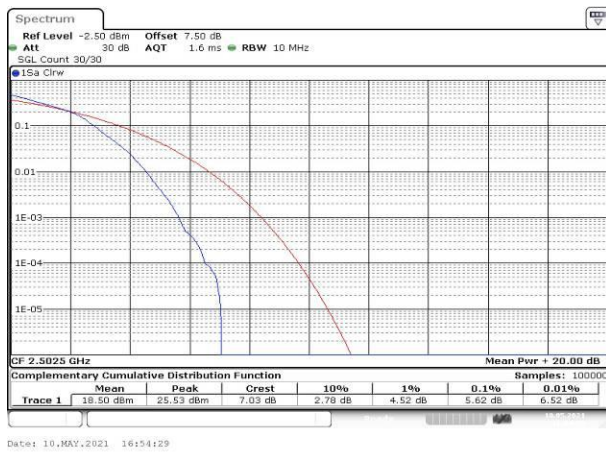


Fig.3

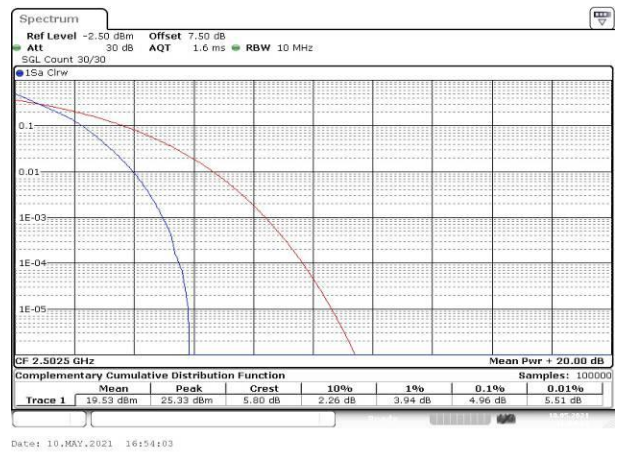


Fig.4

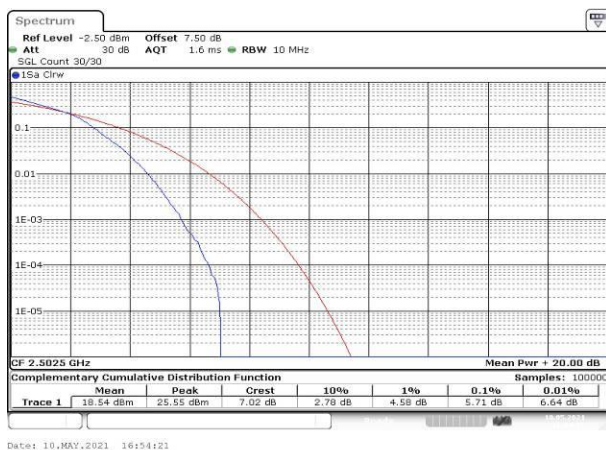


Fig.5

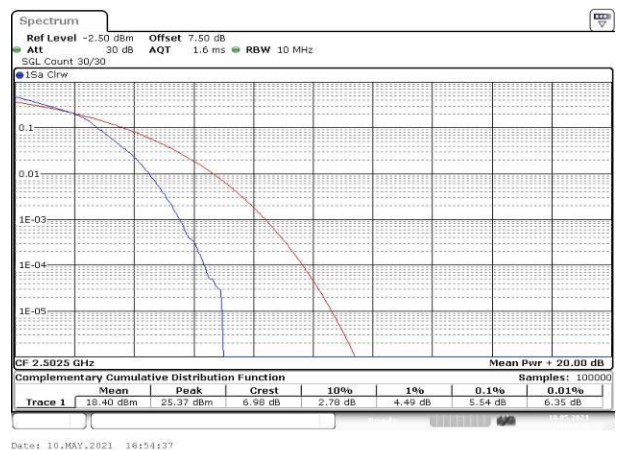


Fig.6

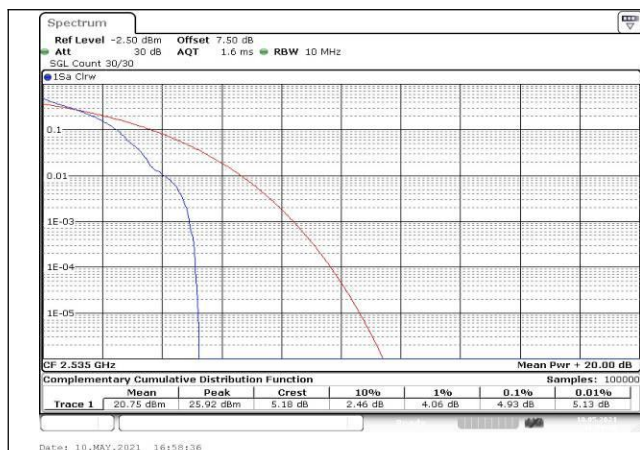


Fig.7

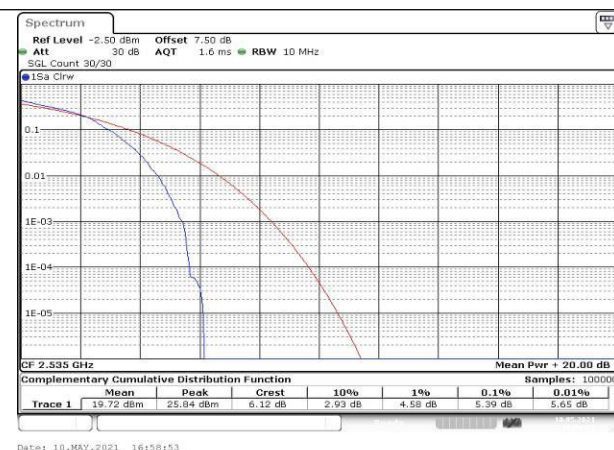


Fig.8

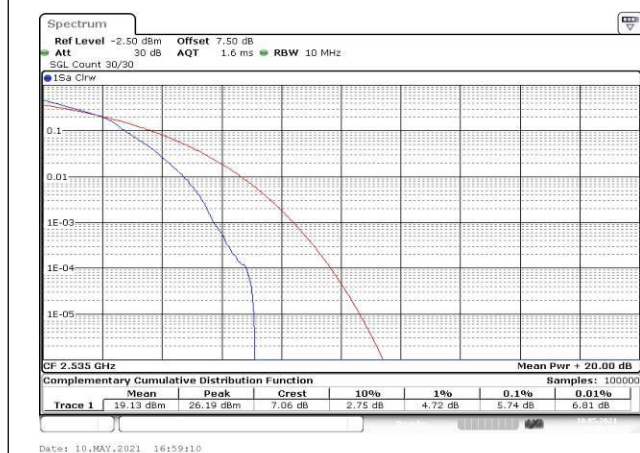


Fig.9

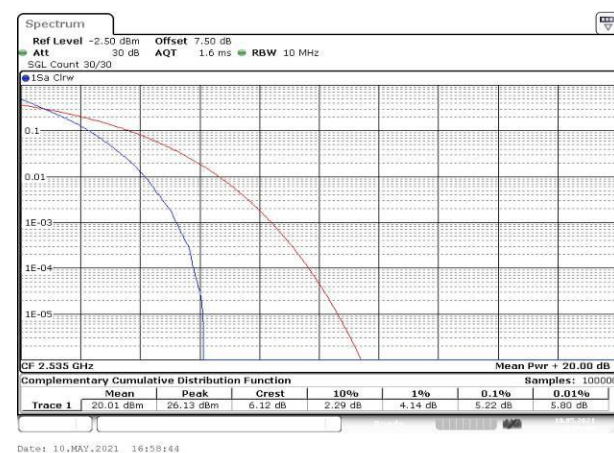


Fig.10

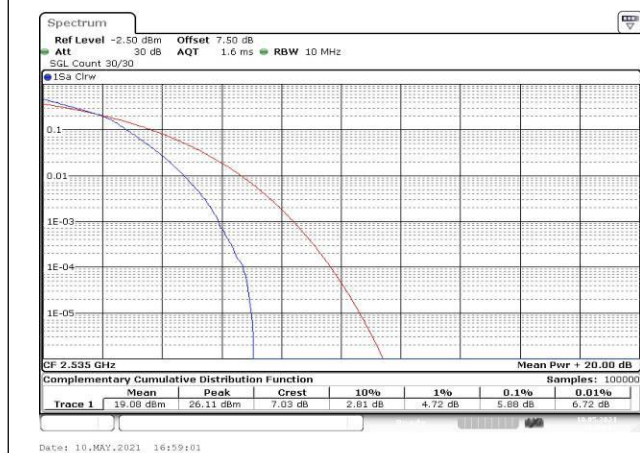


Fig.11

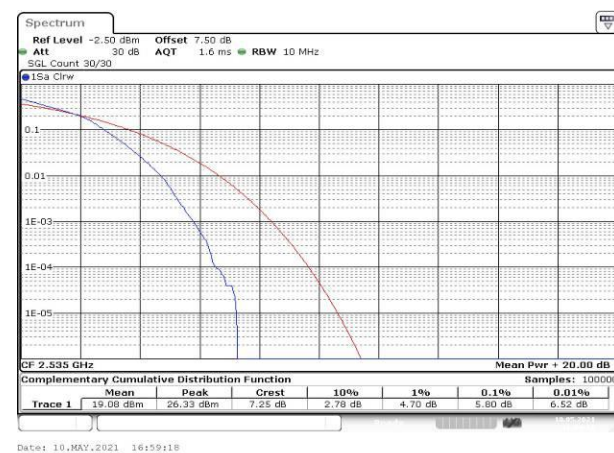


Fig.12

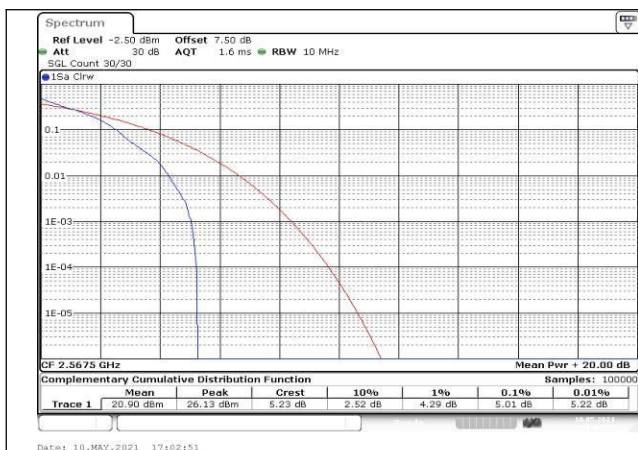


Fig.13

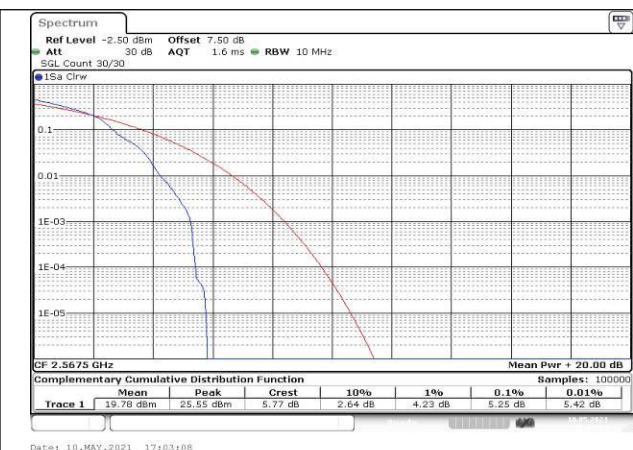


Fig.14

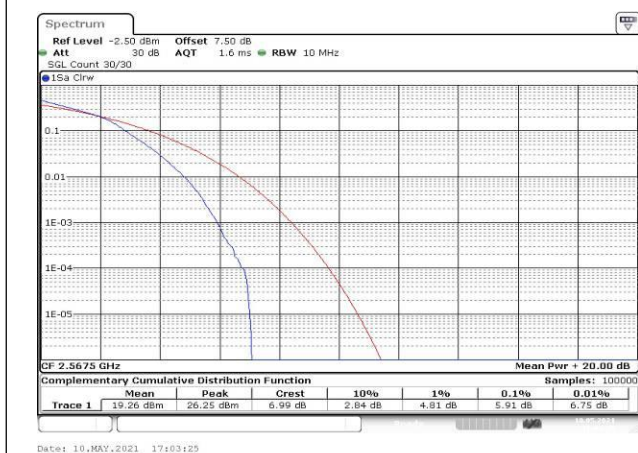


Fig.15

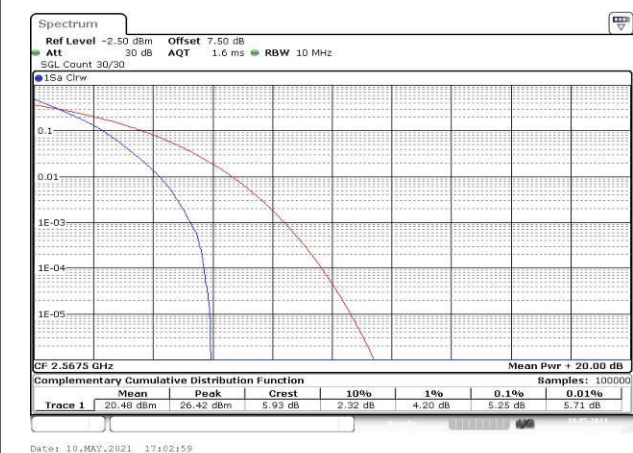


Fig.16

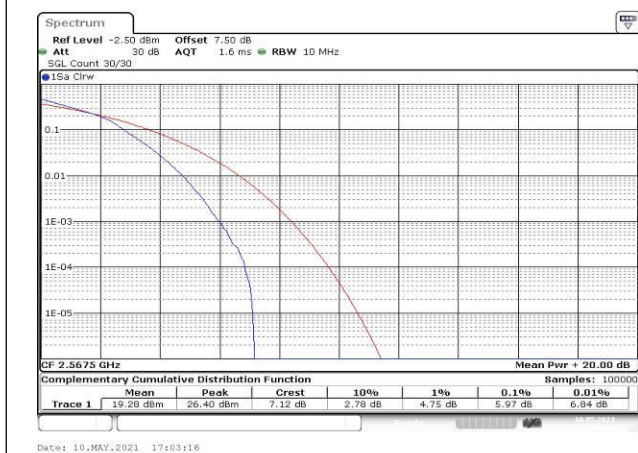


Fig.17

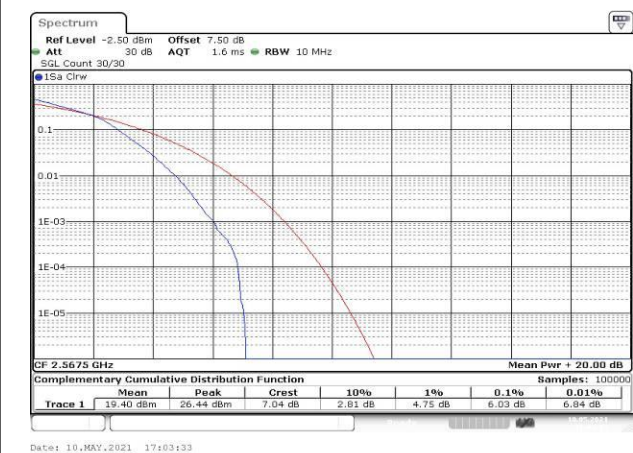


Fig.18