

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	23.03	
				1	12	22.99	
				1	24	22.96	
				12	0	22.13	
				12	7	22.10	
				12	13	22.08	
				25	0	22.12	
	2535	21100		1	0	23.19	
				1	12	23.20	
				1	24	23.19	
				12	0	22.24	
				12	7	22.30	
				12	13	22.30	
				25	0	22.26	
	2567.5	21425		1	0	22.96	
				1	12	22.94	
				1	24	22.92	
				12	0	22.06	
				12	7	22.07	
				12	13	22.06	
				25	0	22.01	
	16QAM	2502.5		20775	1	0	22.12
					1	12	22.16
					1	24	22.04
12					0	21.13	
12					7	21.14	
12					13	21.12	
25					0	21.17	
2535		21100	1	0	22.55		
			1	12	22.57		
			1	24	22.56		
			12	0	21.37		
			12	7	21.40		
			12	13	21.36		
			25	0	21.32		
2567.5		21425	1	0	22.13		
			1	12	22.05		
			1	24	22.11		
			12	0	20.99		
			12	7	21.04		
			12	13	21.04		
25	0	21.08					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2502.5	20775	5	1	0	21.17
				1	12	21.18
				1	24	21.18
				12	0	21.17
				12	7	21.26
				12	13	21.23
				25	0	21.25
	2535	21100		1	0	21.31
				1	12	21.29
				1	24	21.29
				12	0	21.28
				12	7	21.27
				12	13	21.28
				25	0	21.27
	2567.5	21425		1	0	21.13
				1	12	21.06
				1	24	21.03
				12	0	21.11
				12	7	21.11
				12	13	21.07
				25	0	21.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2505	20800	10	1	0	23.11	
				1	25	23.16	
				1	49	23.18	
				25	0	22.24	
				25	12	22.20	
				25	25	22.26	
	50	0		22.19			
	2535	21100		1	0	23.27	
				1	25	23.27	
				1	49	23.27	
				25	0	22.33	
				25	12	22.40	
				25	25	22.41	
	50	0		22.21			
	2565	21400		1	0	23.05	
				1	25	22.94	
				1	49	23.03	
				25	0	22.08	
				25	12	22.08	
				25	25	22.05	
	50	0		22.05			
	16QAM	2505		20800	1	0	22.23
					1	25	22.31
					1	49	22.27
25					0	21.32	
25					12	21.33	
25					25	21.35	
50		0		21.26			
2535		21100		1	0	22.87	
				1	25	22.86	
			1	49	22.89		
			25	0	21.42		
			25	12	21.43		
			25	25	21.49		
50		0	21.31				
2565		21400	1	0	22.23		
			1	25	22.15		
			1	49	22.24		
			25	0	21.10		
			25	12	21.13		
			25	25	21.13		
			50	0	20.99		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2505	20800	10	1	0	21.21
				1	25	21.24
				1	49	21.28
				25	0	21.24
				25	12	21.24
				25	25	21.29
	2535	21100		50	0	21.28
				1	0	21.30
				1	25	21.33
				1	49	21.28
				25	0	21.34
				25	12	21.28
	2565	21400		25	25	21.38
				50	0	21.33
				1	0	21.02
				1	25	21.01
				1	49	21.07
				25	0	21.06
				25	12	21.09
				25	25	20.99
				50	0	21.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2507.5	20825	15	1	0	23.07	
				1	37	23.16	
				1	74	23.19	
				36	0	22.14	
				36	29	22.25	
				36	30	22.26	
				75	0	22.23	
	2535	21100		1	0	23.30	
				1	37	23.34	
				1	74	23.37	
				36	0	22.34	
				36	29	22.35	
				36	30	22.35	
				75	0	22.29	
	2562.5	21375		1	0	23.14	
				1	37	23.04	
				1	74	22.93	
				36	0	22.11	
				36	29	22.14	
				36	30	22.14	
				75	0	22.04	
	16QAM	2507.5		20825	1	0	22.77
					1	37	22.87
					1	74	22.81
36					0	21.22	
36					29	21.21	
36					30	21.28	
75					0	21.29	
2535		21100		1	0	22.58	
				1	37	22.60	
			1	74	22.57		
			36	0	21.35		
			36	29	21.36		
			36	30	21.39		
			75	0	21.36		
2562.5		21375	1	0	22.64		
			1	37	22.60		
			1	74	22.63		
			36	0	21.10		
			36	29	21.13		
			36	30	21.13		
			75	0	21.09		

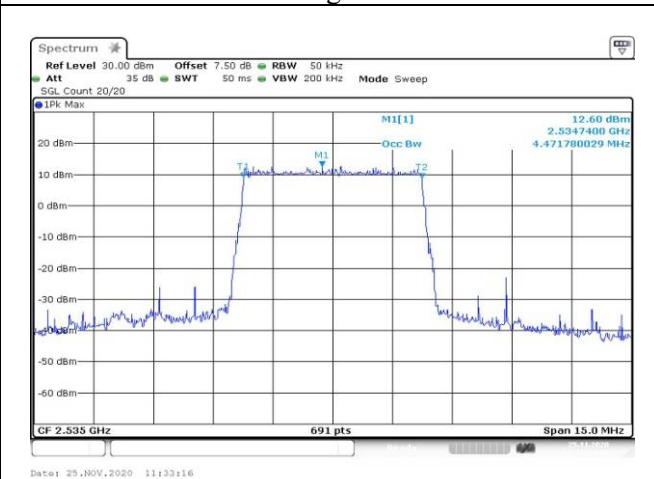
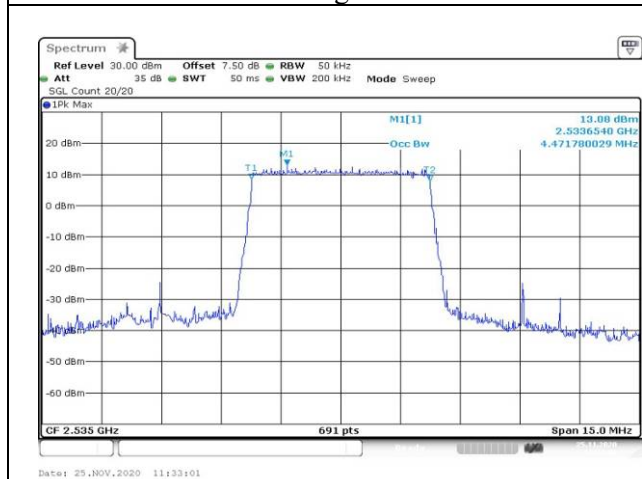
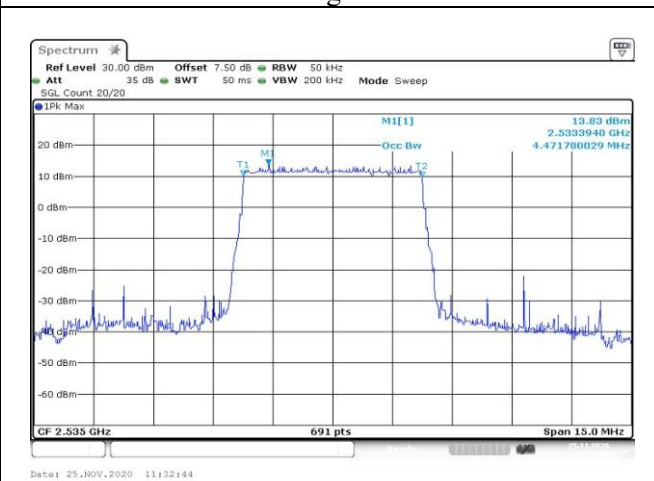
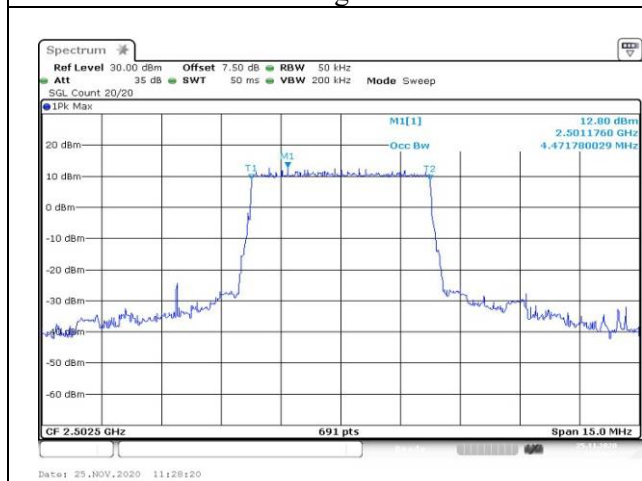
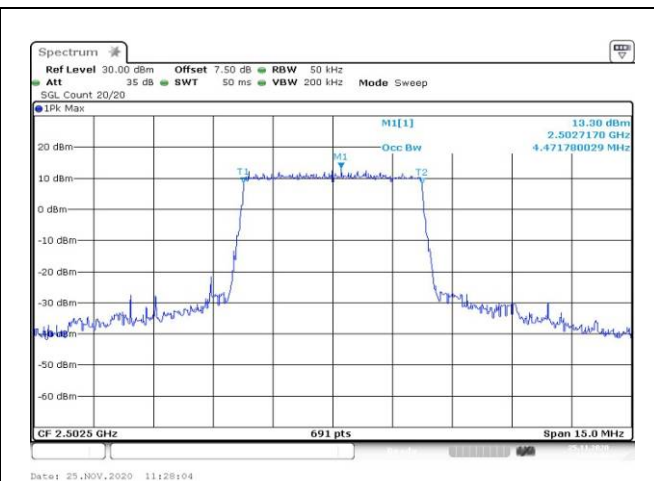
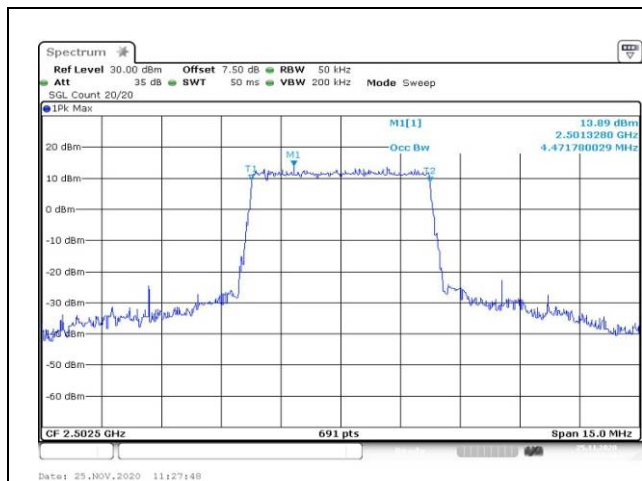
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2507.5	20825	15	1	0	21.20
				1	37	21.29
				1	74	21.26
				36	0	21.27
				36	29	21.29
				36	30	21.26
	2535	21100		75	0	21.29
				1	0	21.29
				1	37	21.39
				1	74	21.39
				36	0	21.36
				36	29	21.33
	2562.5	21375		36	30	21.40
				75	0	21.33
				1	0	21.08
				1	37	21.05
				1	74	21.02
				36	0	21.09
				36	29	21.01
				36	30	21.05
				75	0	21.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	23.09
				1	49	23.15
				1	99	23.14
				50	0	22.13
				50	24	22.25
				50	50	22.21
				100	0	22.23
	2535	21100		1	0	23.37
				1	49	23.39
				1	99	23.39
				50	0	22.37
				50	24	22.42
				50	50	22.44
				100	0	22.31
	2560	21350		1	0	23.14
				1	49	22.96
				1	99	22.98
				50	0	22.26
				50	24	22.23
				50	50	22.17
				100	0	22.21
16QAM	2510	20850	1	0	22.59	
			1	49	22.58	
			1	99	22.51	
			50	0	21.11	
			50	24	21.20	
			50	50	21.31	
			100	0	21.27	
	2535	21100	1	0	22.55	
			1	49	22.64	
			1	99	22.52	
			50	0	21.30	
			50	24	21.43	
			50	50	21.36	
			100	0	21.32	
	2560	21350	1	0	22.85	
			1	49	22.65	
			1	99	22.64	
			50	0	21.21	
			50	24	21.15	
			50	50	21.15	
			100	0	21.22	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2510	20850	20	1	0	21.27
				1	49	21.30
				1	99	21.30
				50	0	21.22
				50	24	21.24
				50	50	21.28
				100	0	21.22
	2535	21100		1	0	21.39
				1	49	21.30
				1	99	21.33
				50	0	21.32
				50	24	21.42
				50	50	21.39
				100	0	21.38
	2560	21350		1	0	21.20
				1	49	21.17
				1	99	21.17
				50	0	21.16
				50	24	21.17
				50	50	21.17
				100	0	21.19

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	13.415	Fig.22	13.415	Fig.23	13.415	Fig.24
	2562.5	21375		75	0	13.415	Fig.25	13.415	Fig.26	13.415	Fig.27
	2510	20850	20	100	0	17.887	Fig.28	17.887	Fig.29	17.887	Fig.30
	2535	21100		100	0	17.800	Fig.31	17.887	Fig.32	17.887	Fig.33
	2560	21350		100	0	17.887	Fig.34	17.887	Fig.35	17.887	Fig.36



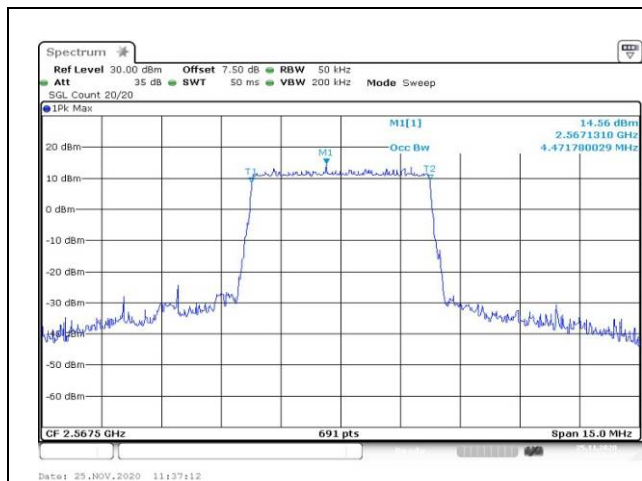


Fig.7

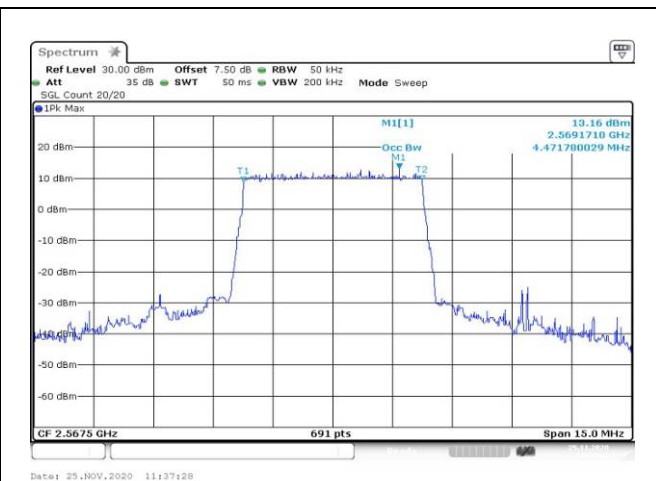


Fig.8

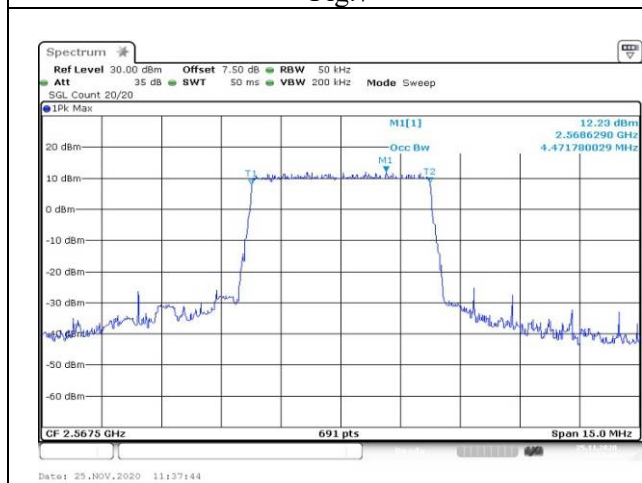


Fig.9

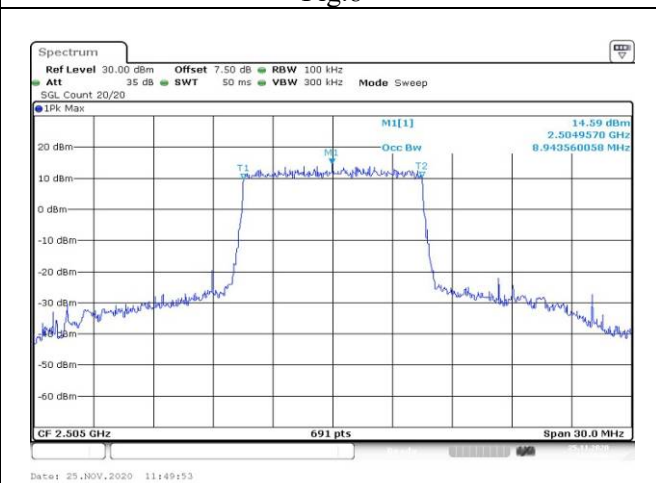


Fig.10

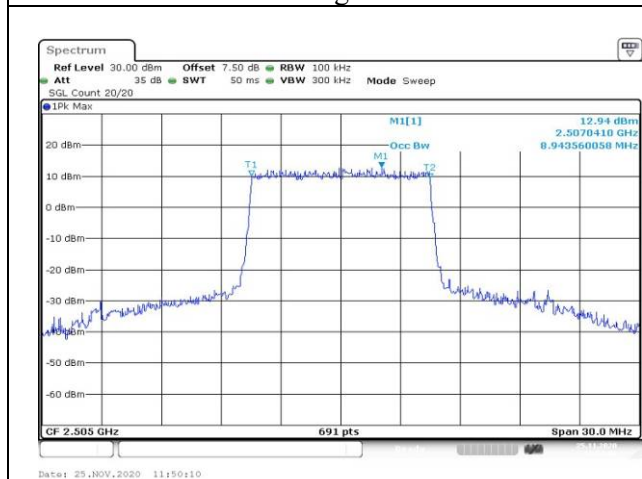


Fig.11

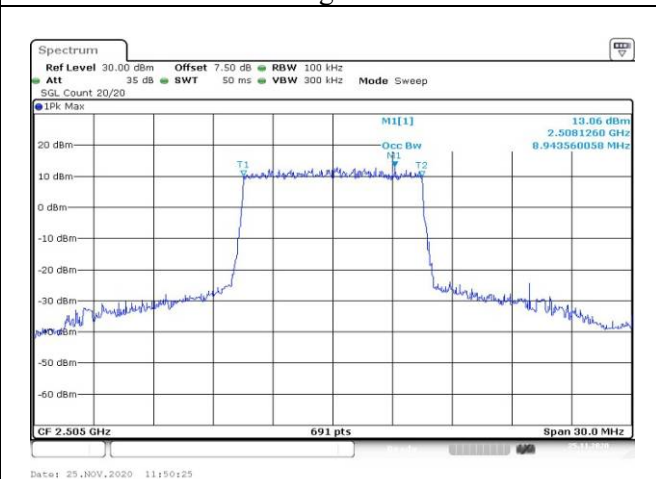
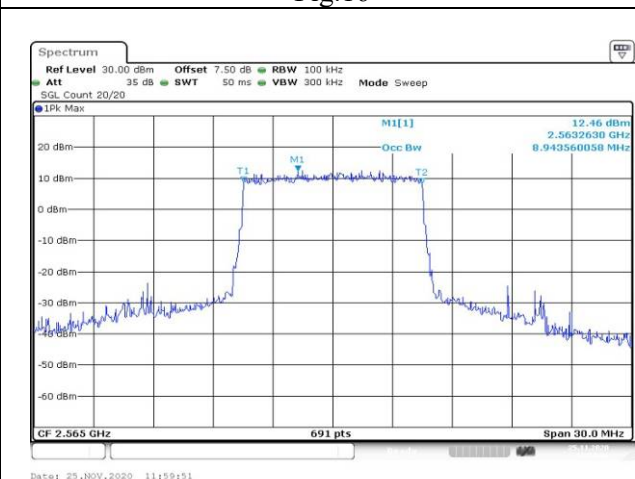
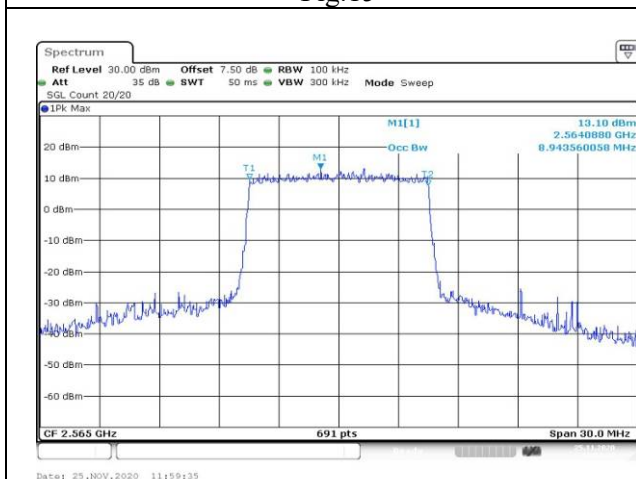
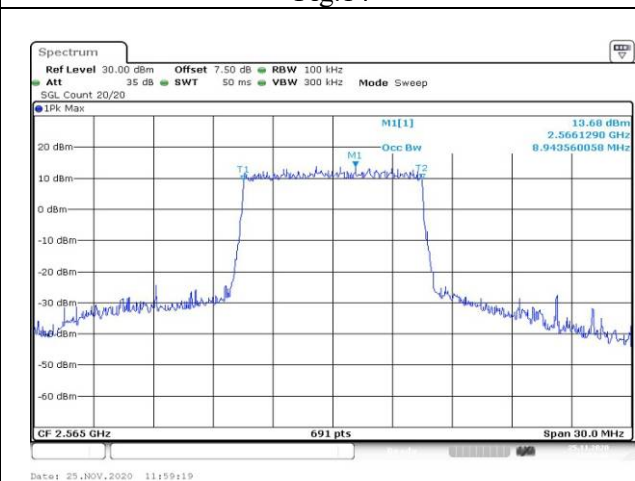
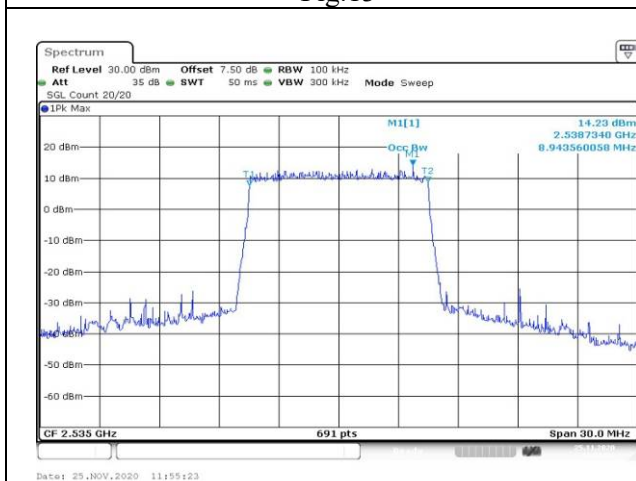
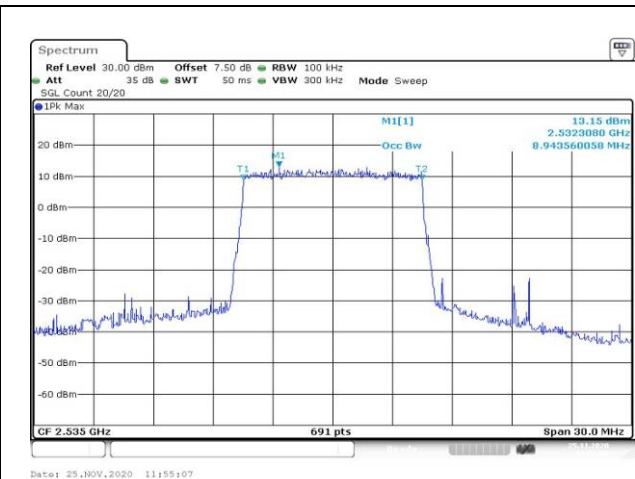
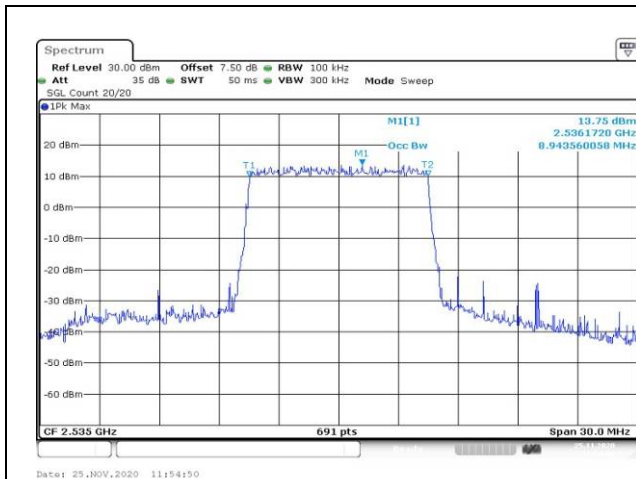


Fig.12



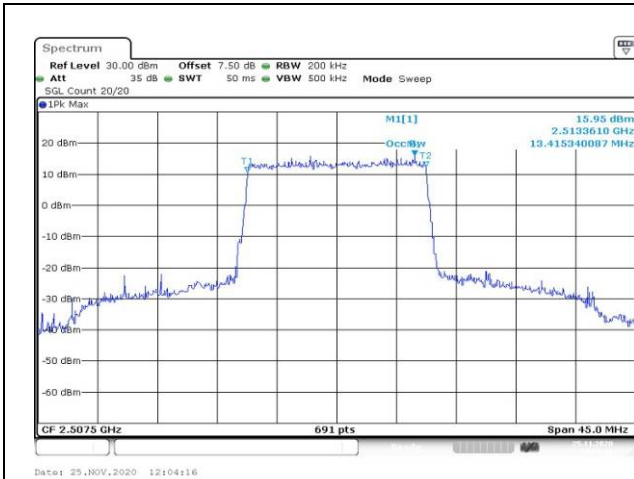


Fig.19

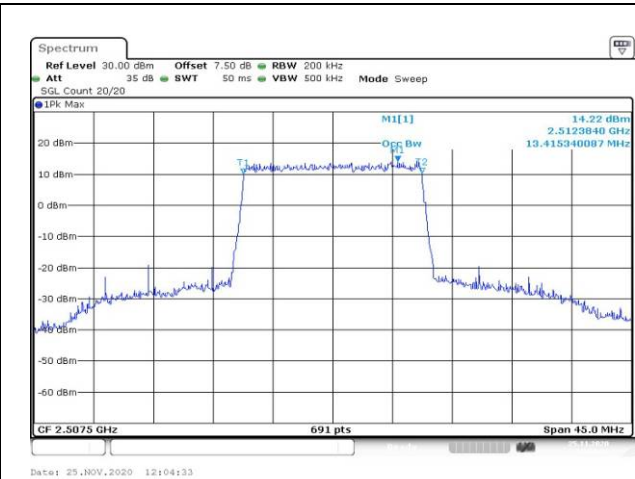


Fig.20

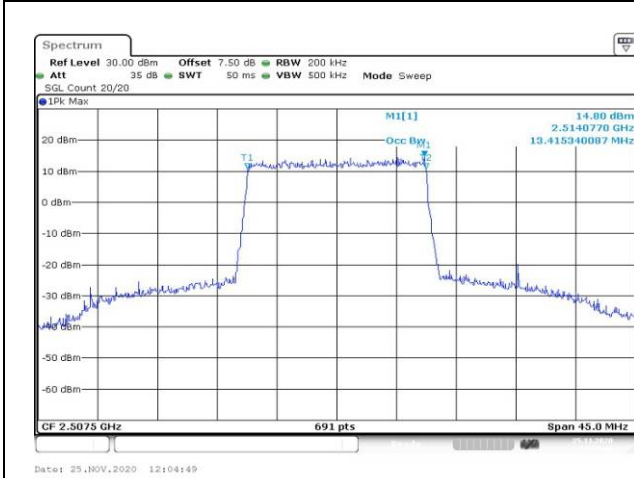


Fig.21

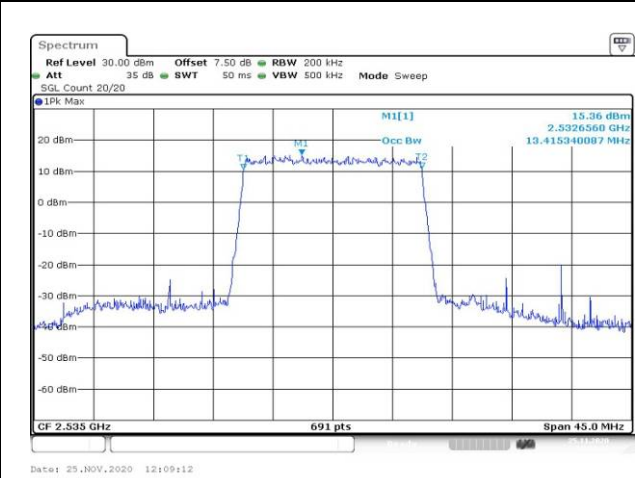


Fig.22

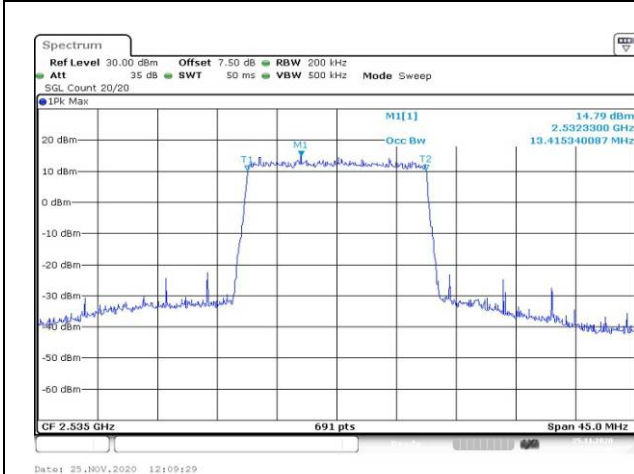


Fig.23

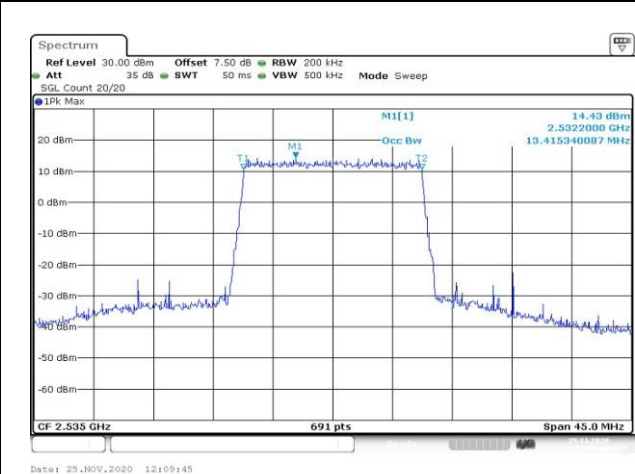
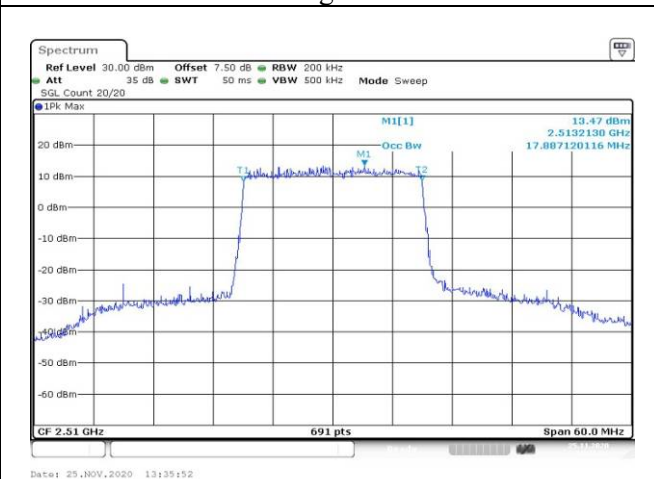
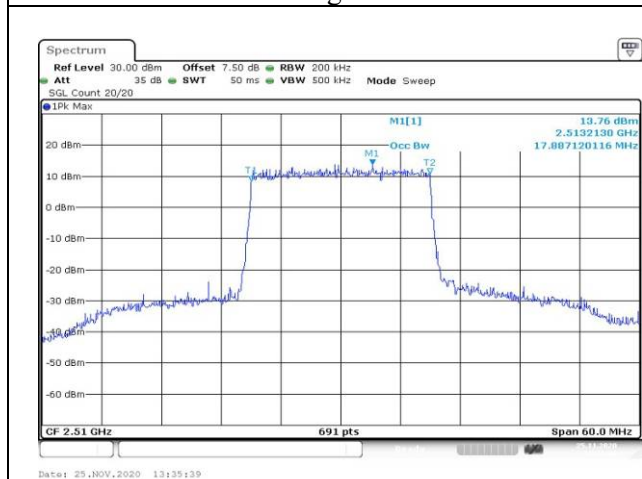
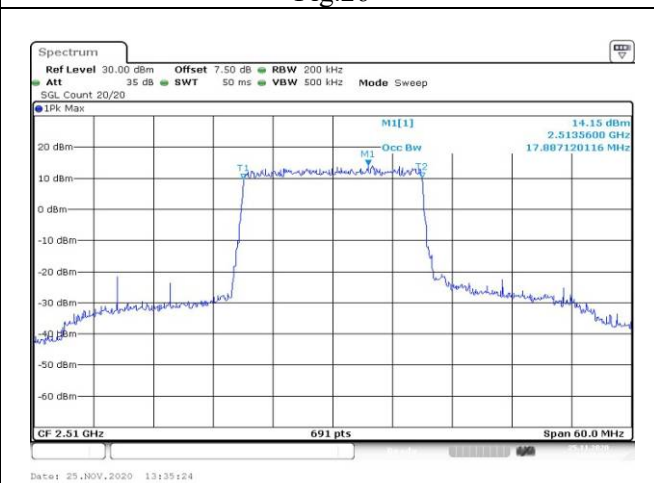
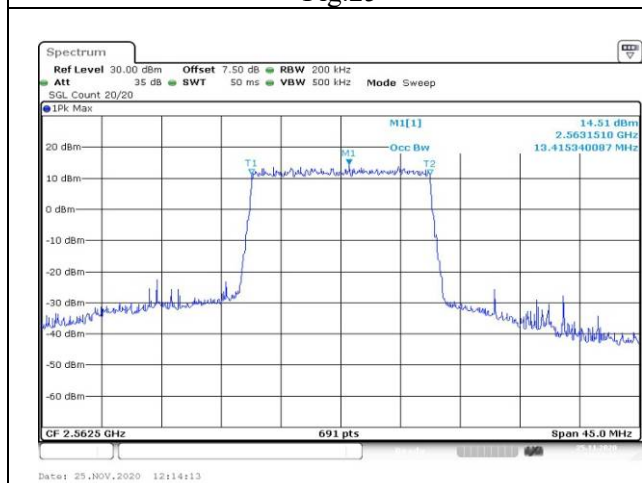
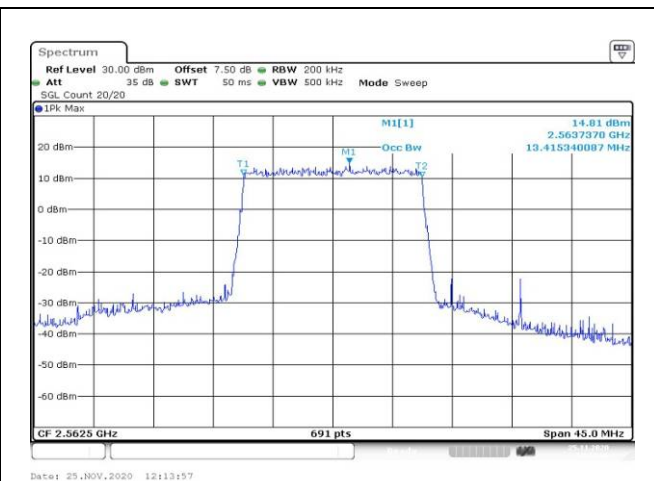
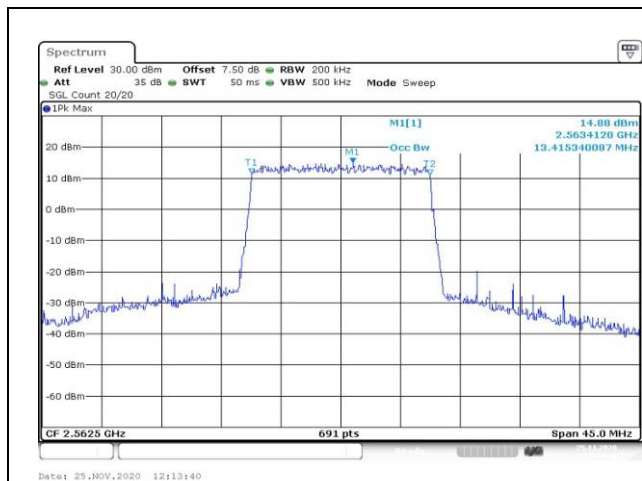
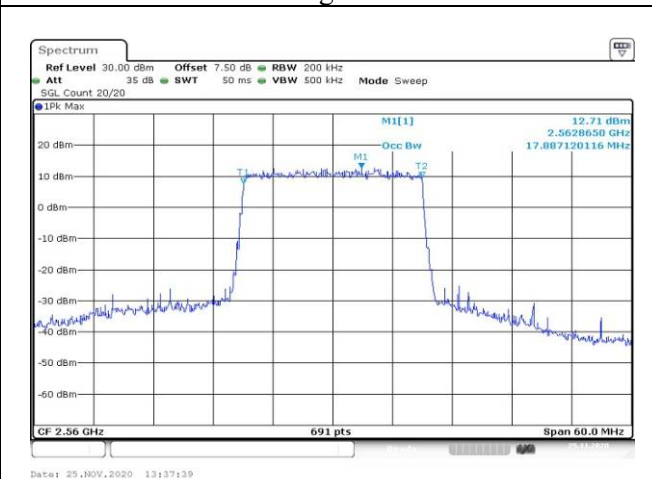
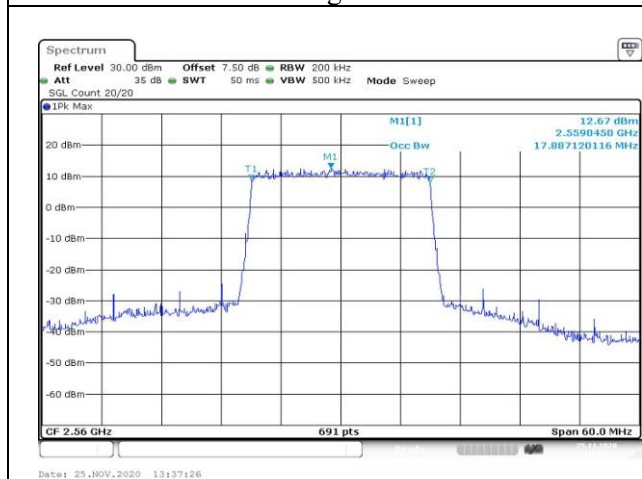
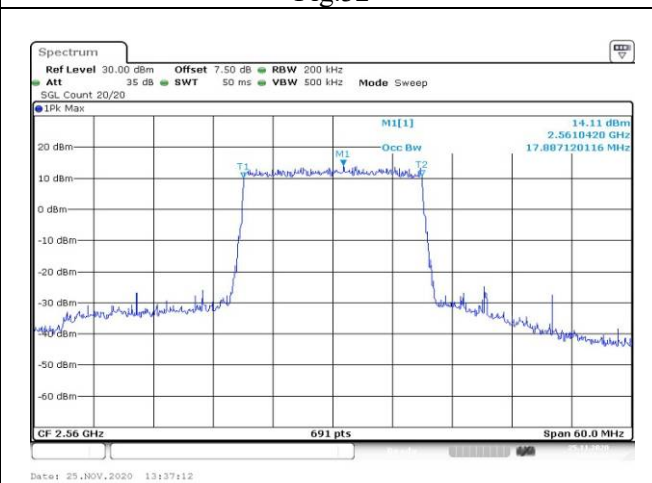
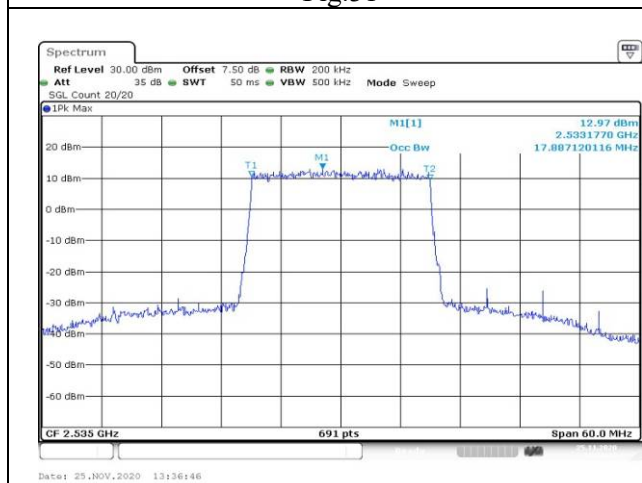
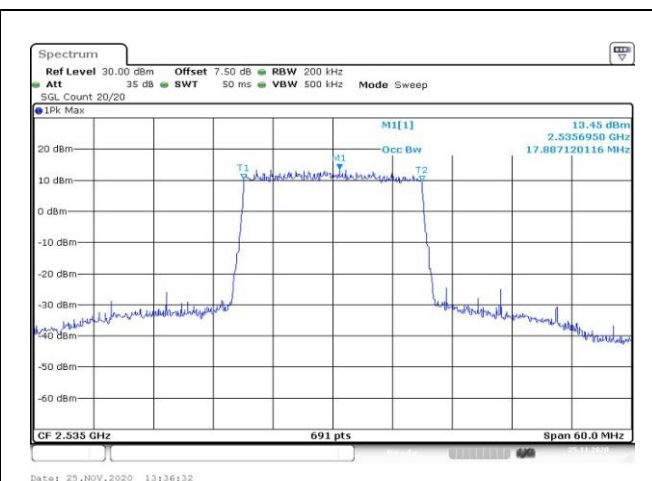
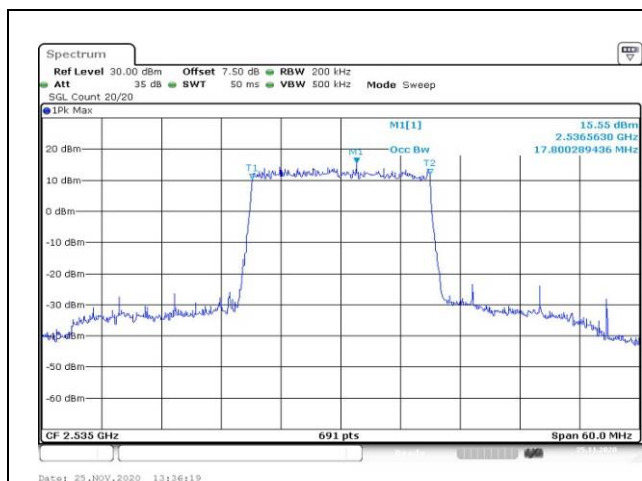


Fig.24





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	4.841	Fig.1	4.819	Fig.2	4.841	Fig.3
	2535	21100		25	0	4.863	Fig.4	4.841	Fig.5	4.863	Fig.6
	2567.5	21425		25	0	4.819	Fig.7	4.863	Fig.8	4.863	Fig.9
	2505	20800	10	50	0	9.595	Fig.10	9.682	Fig.11	9.595	Fig.12
	2535	21100		50	0	9.638	Fig.13	9.595	Fig.14	9.595	Fig.15
	2565	21400		50	0	9.595	Fig.16	9.638	Fig.17	9.551	Fig.18
	2507.5	20825	15	75	0	14.588	Fig.19	14.588	Fig.20	14.588	Fig.21
	2535	21100		75	0	14.457	Fig.22	14.457	Fig.23	14.522	Fig.24
	2562.5	21375		75	0	14.522	Fig.25	14.262	Fig.26	14.392	Fig.27
	2510	20850	20	100	0	19.190	Fig.28	19.190	Fig.29	19.276	Fig.30
	2535	21100		100	0	19.016	Fig.31	19.190	Fig.32	19.103	Fig.33
	2560	21350		100	0	19.190	Fig.34	19.103	Fig.35	19.103	Fig.36

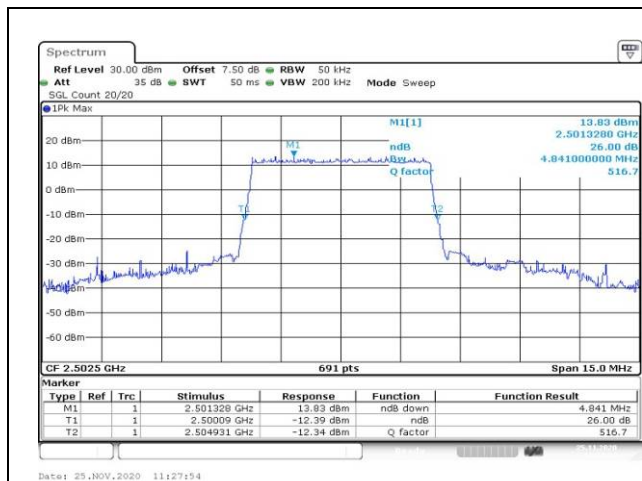


Fig.1

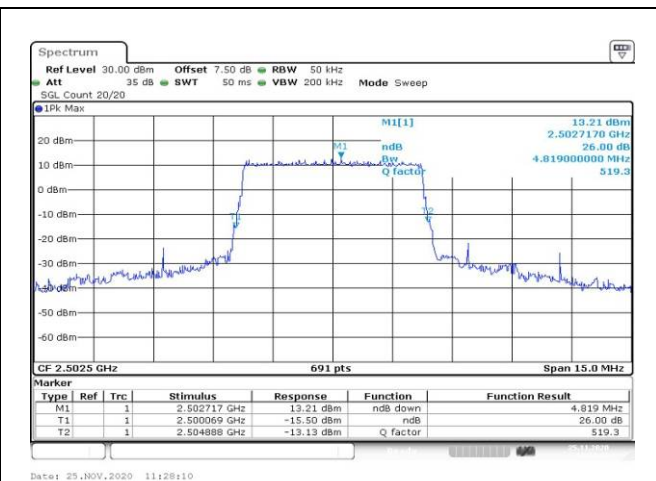


Fig.2

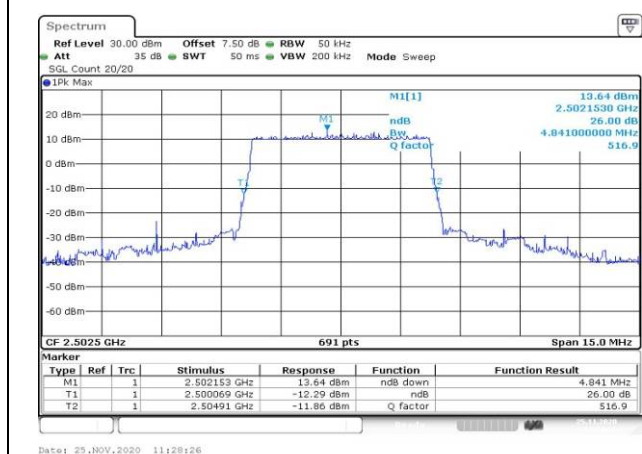


Fig.3

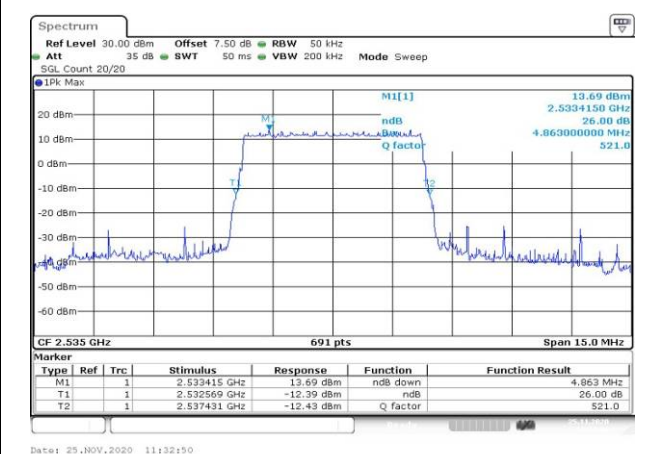


Fig.4

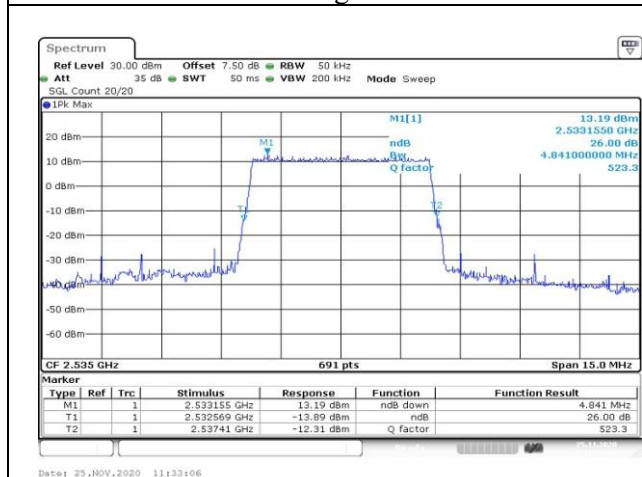


Fig.5

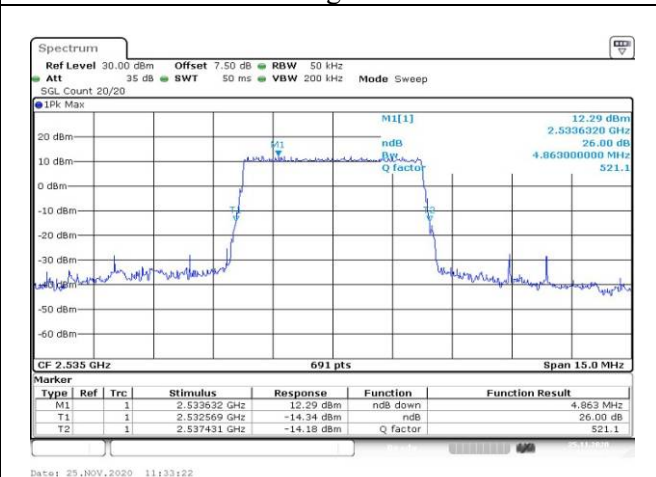


Fig.6

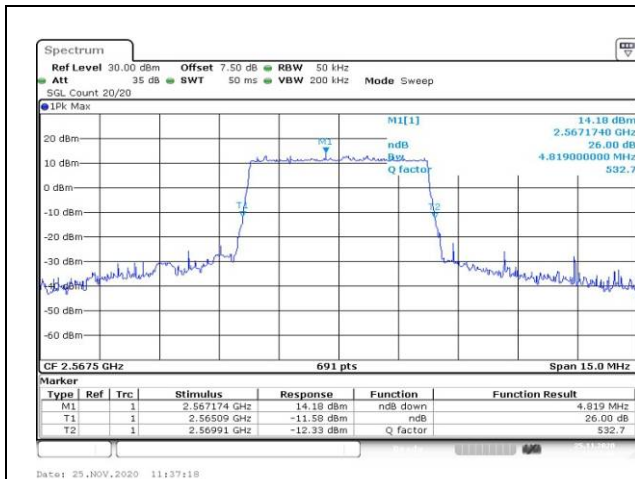


Fig.7

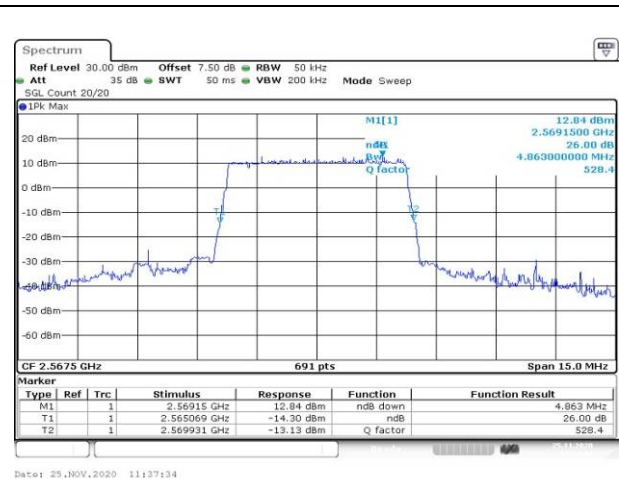


Fig.8

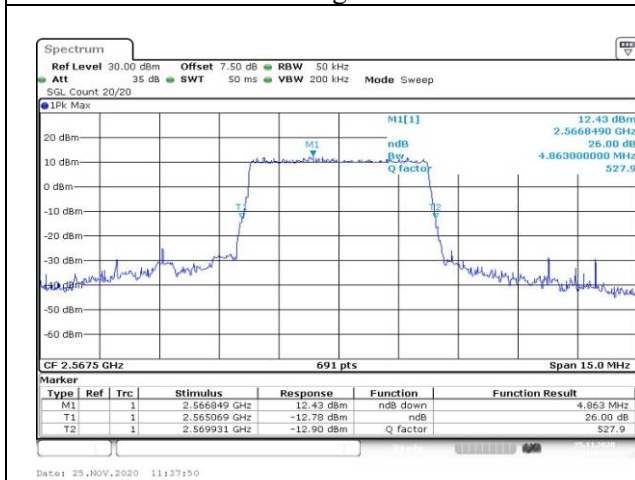


Fig.9

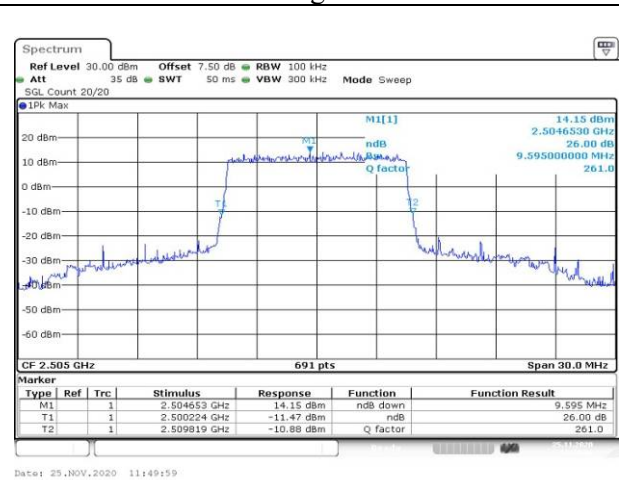


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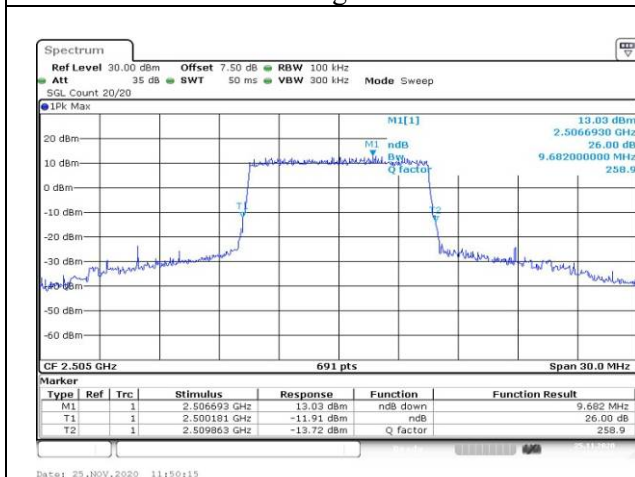


Fig.11



Fig.12

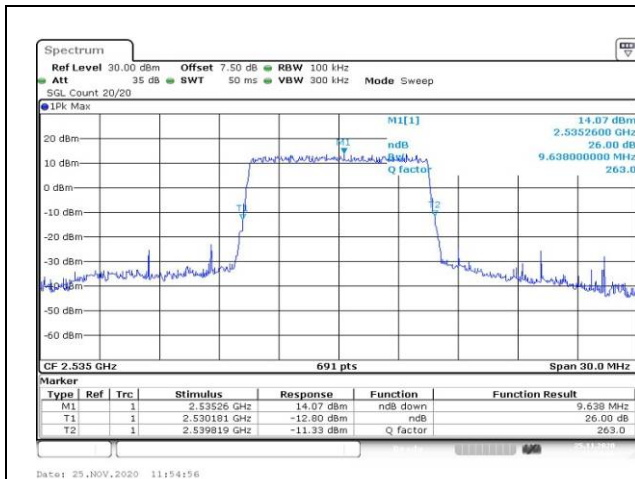


Fig.13



Fig.14

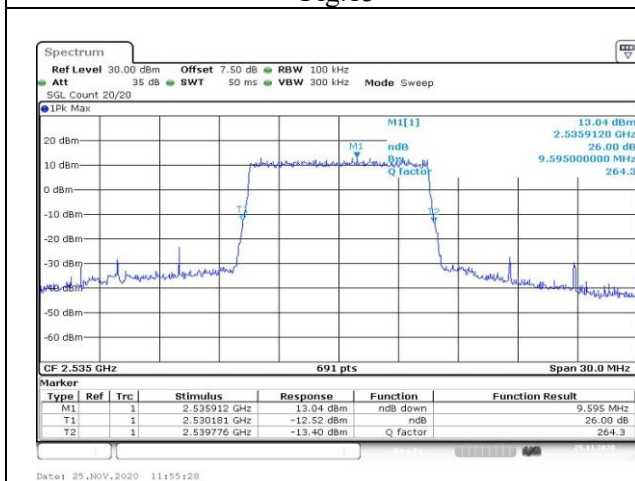


Fig.15



Fig.16

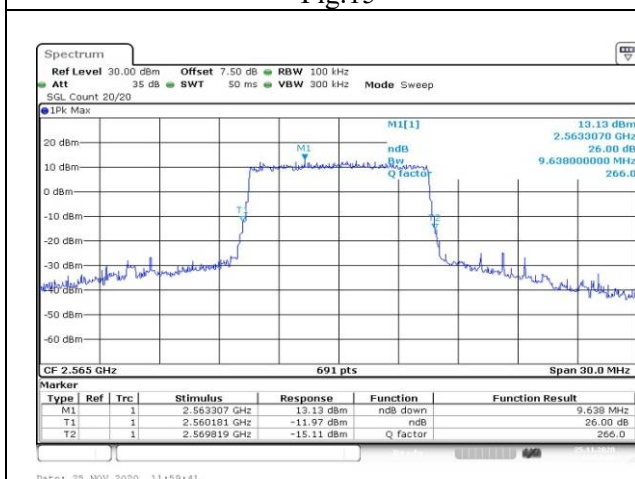


Fig.17

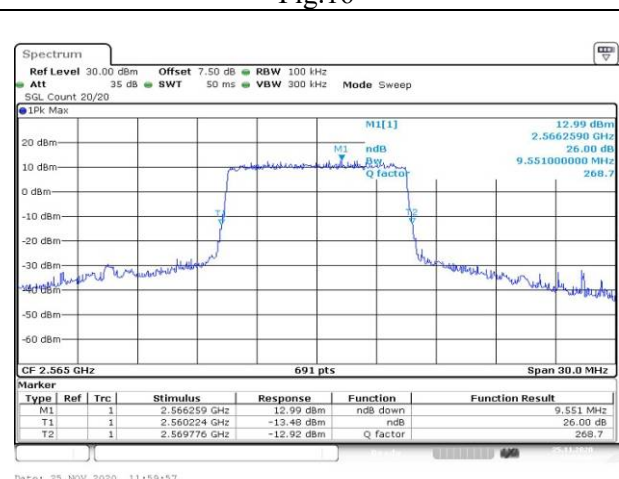


Fig.18

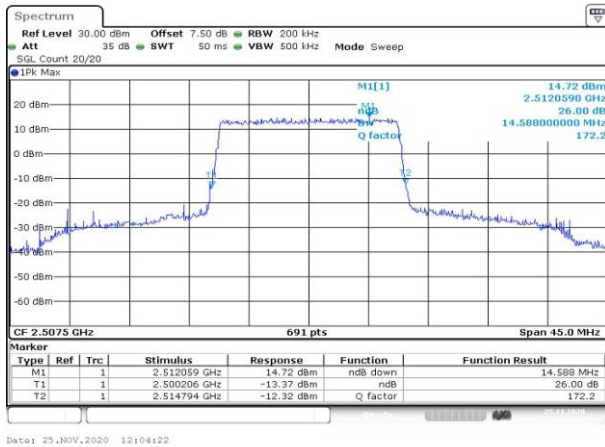


Fig.19

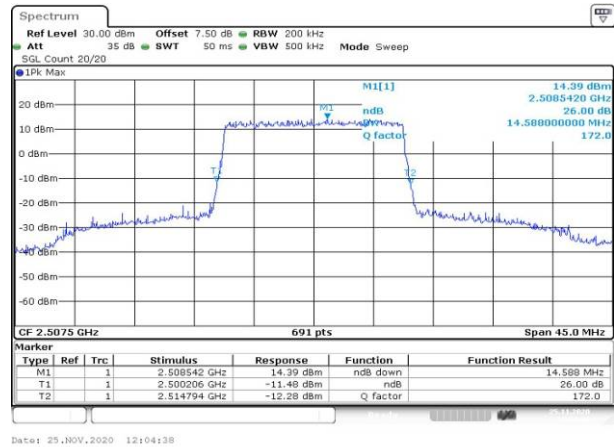


Fig.20

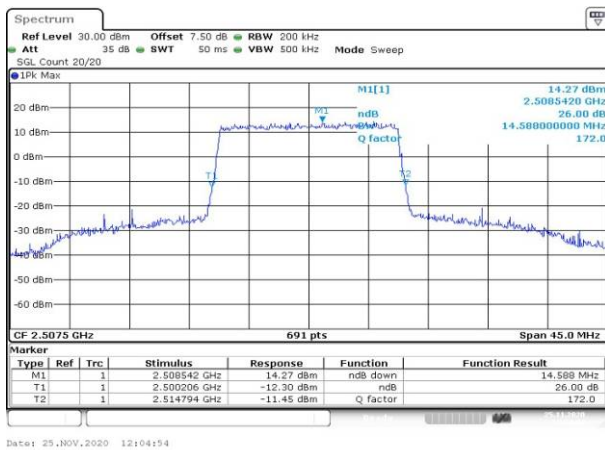


Fig.21

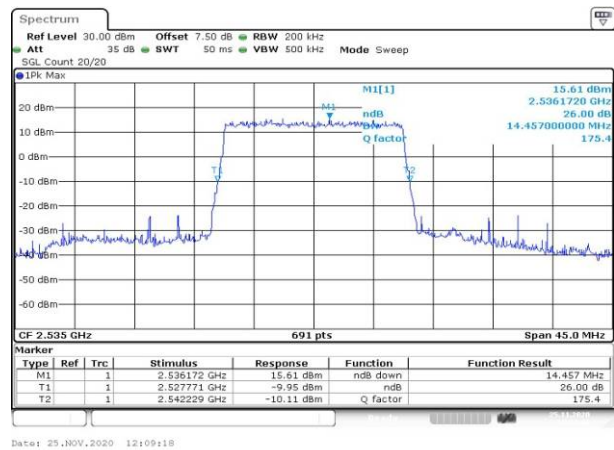


Fig.22

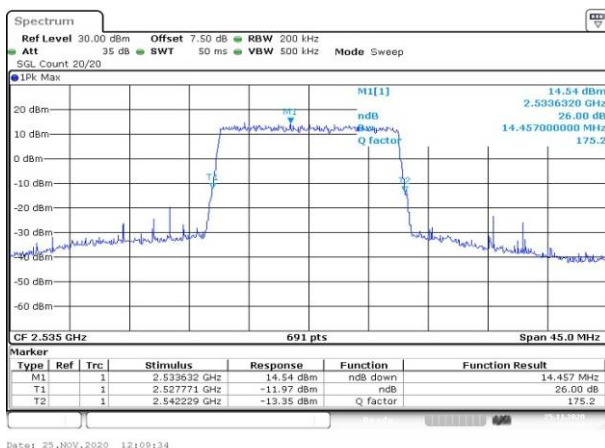


Fig.23

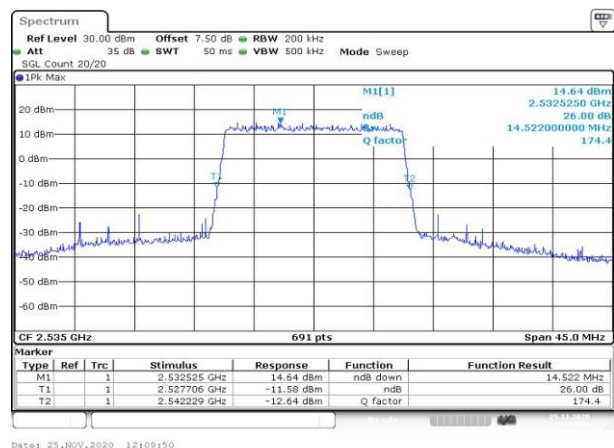


Fig.24

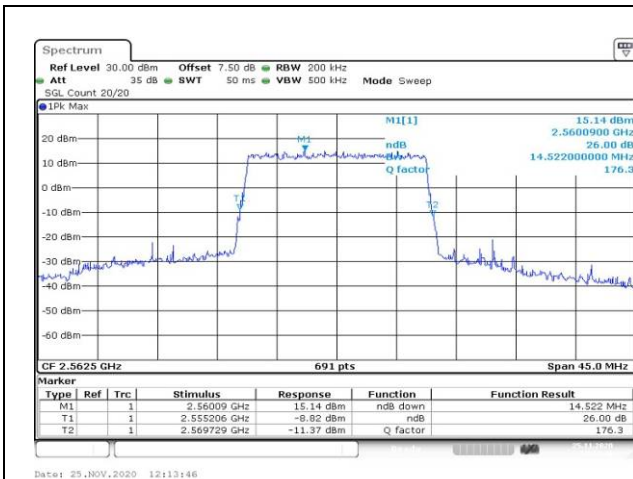


Fig.25

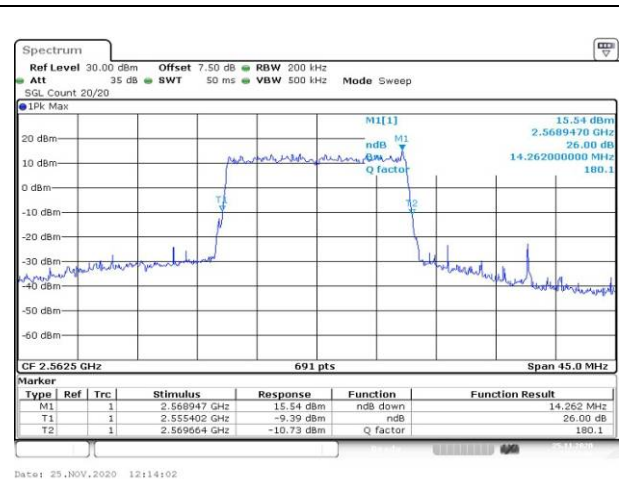


Fig.26

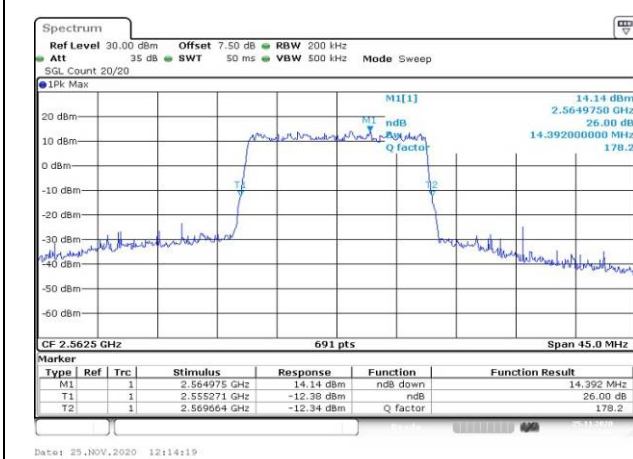


Fig.27

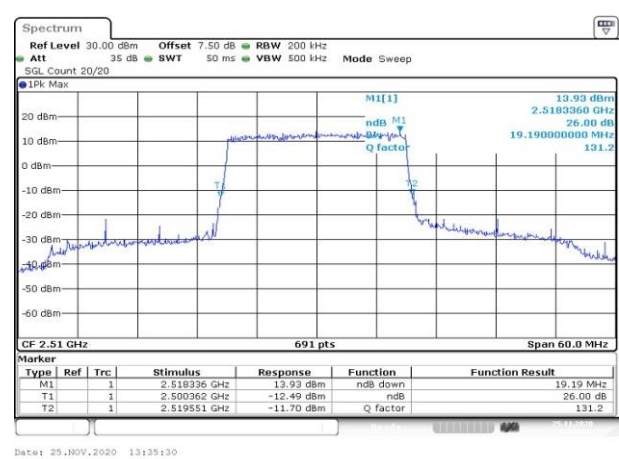


Fig.28

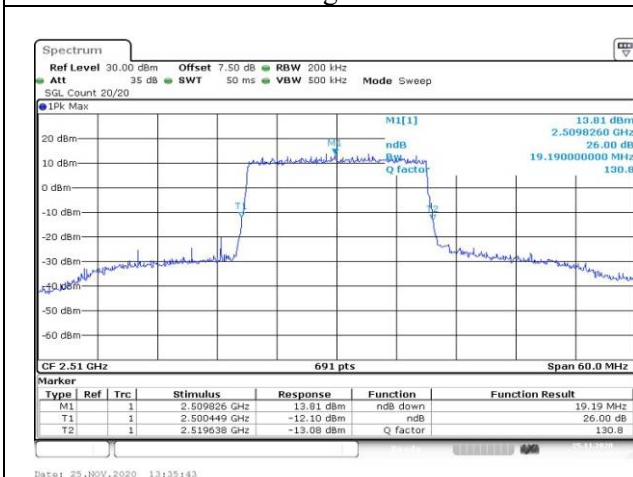


Fig.29

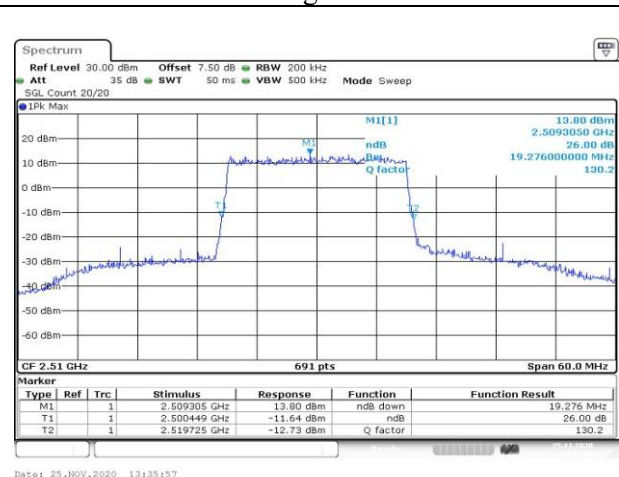


Fig.30

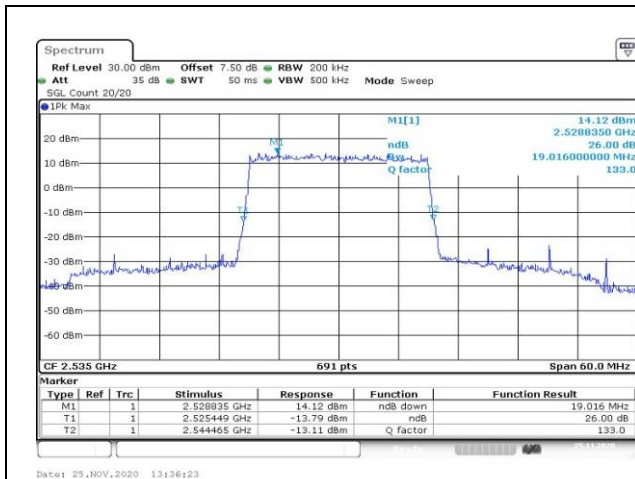


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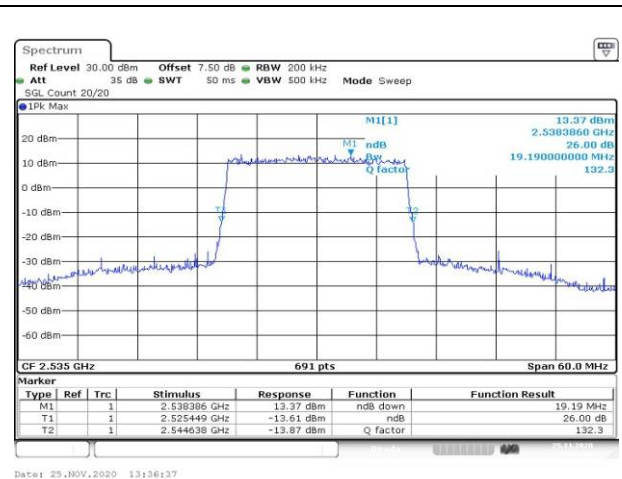


Fig.32

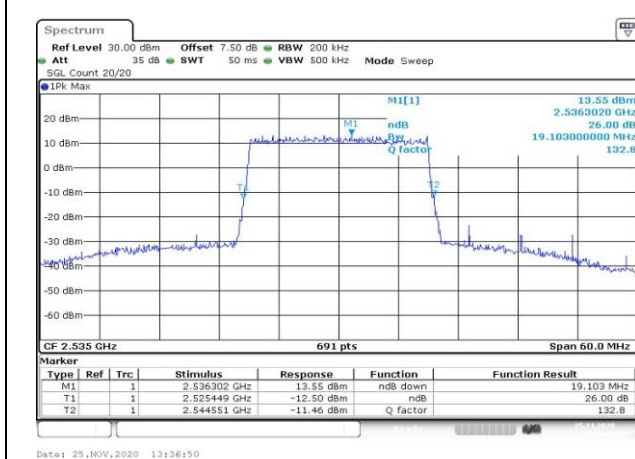


Fig.33

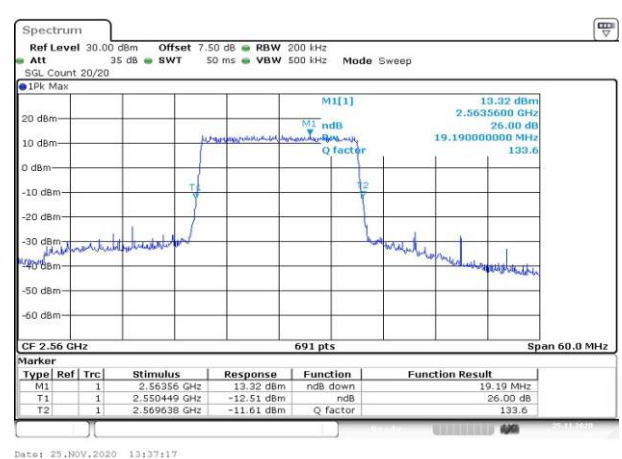


Fig.34

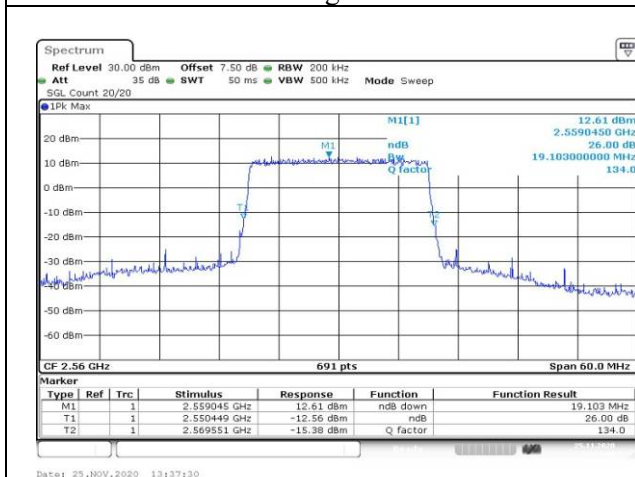


Fig.35



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

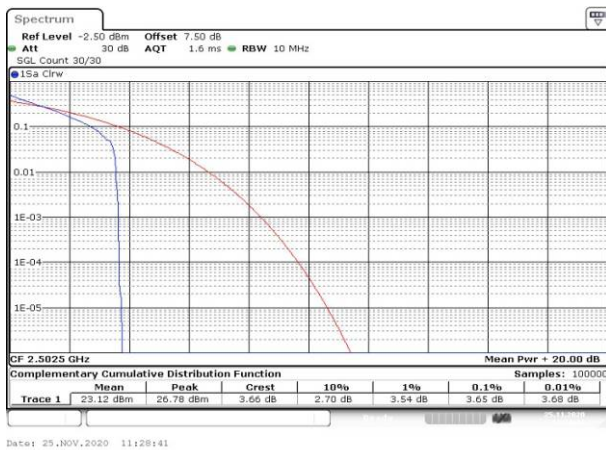


Fig.1

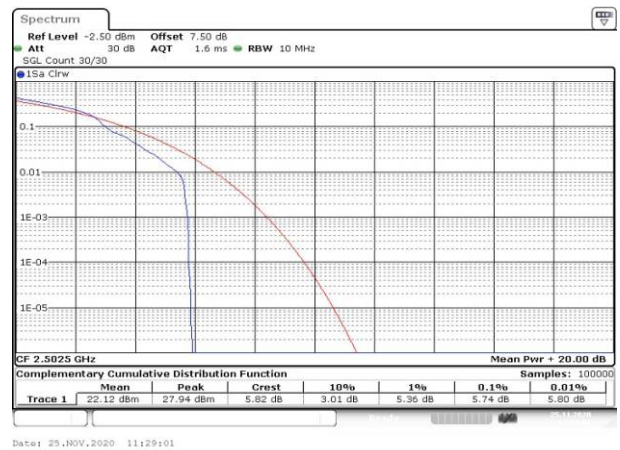


Fig.2

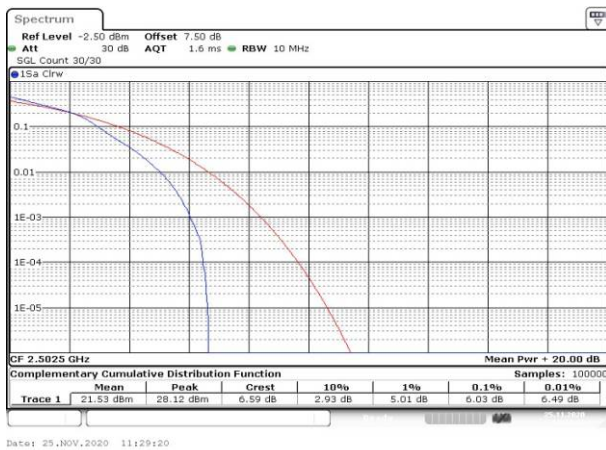


Fig.3

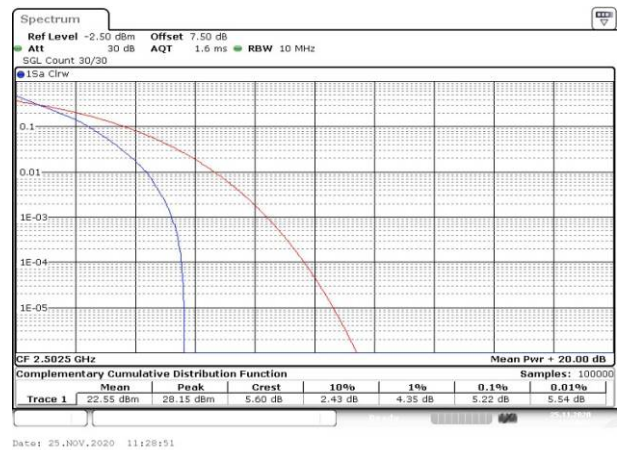


Fig.4

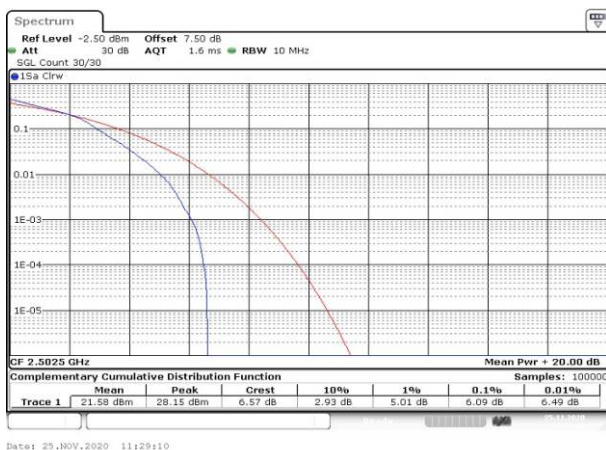


Fig.5

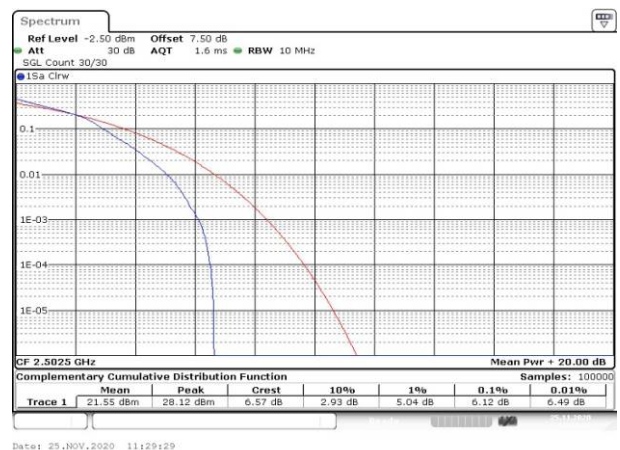


Fig.6



Fig.7

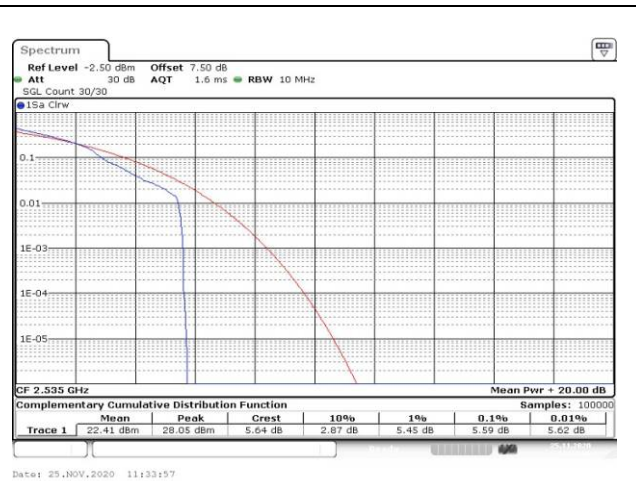


Fig.8



Fig.9

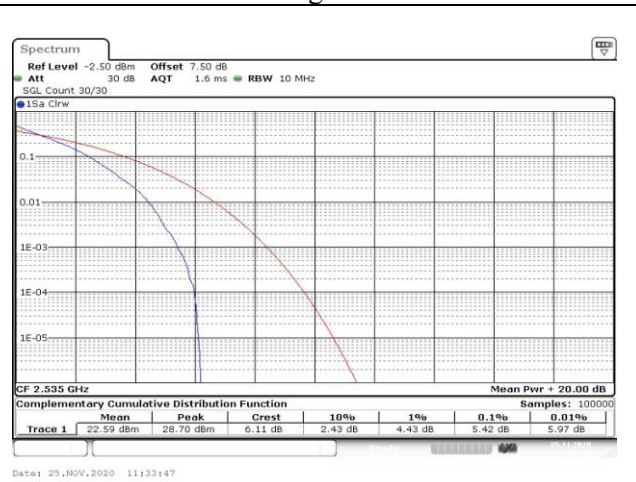


Fig.10

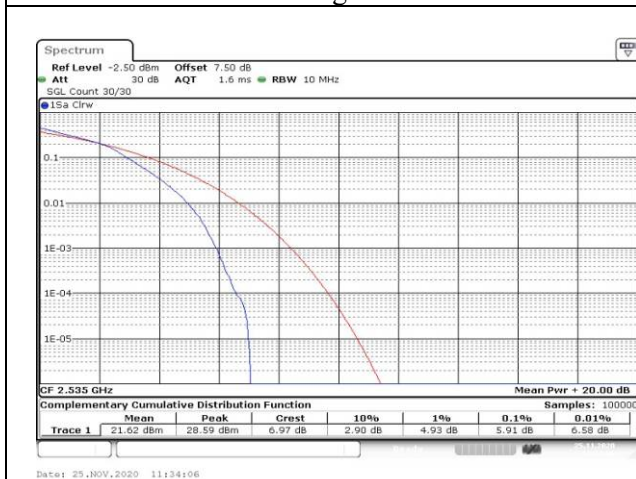


Fig.11

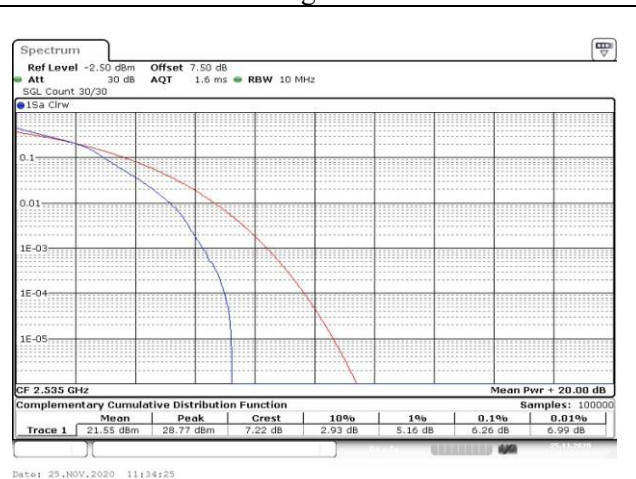


Fig.12

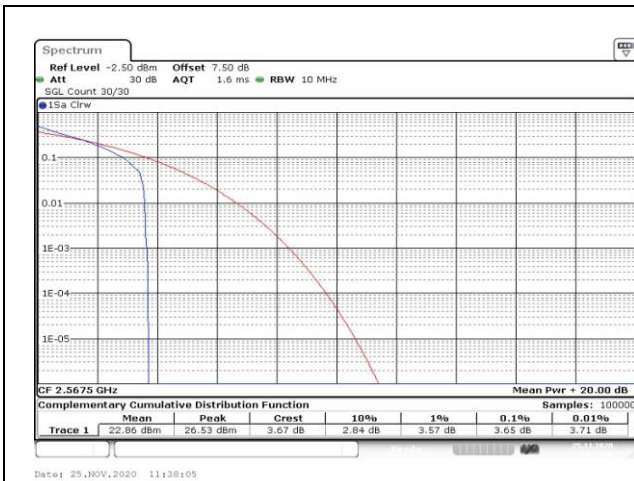


Fig.13

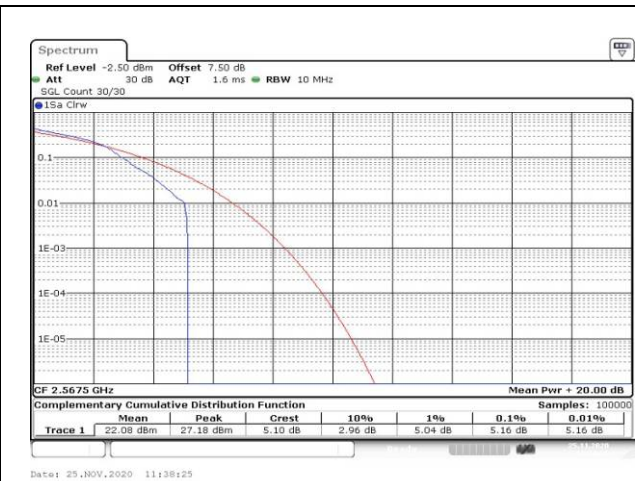


Fig.14



Fig.15



Fig.16

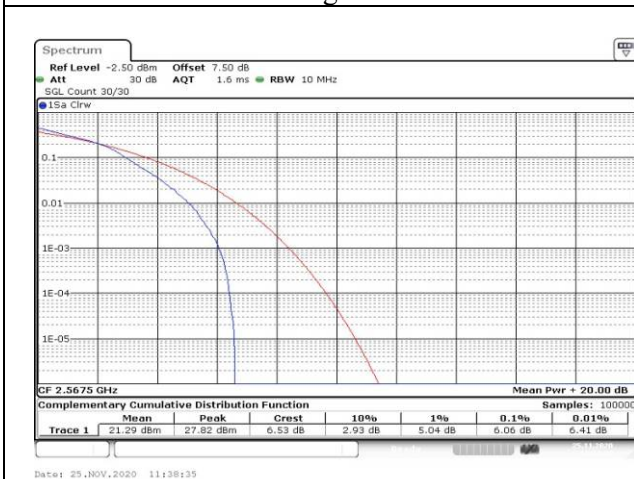


Fig.17

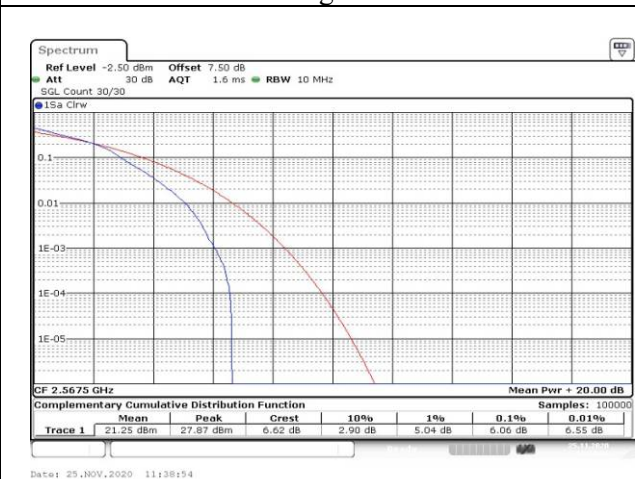


Fig.18

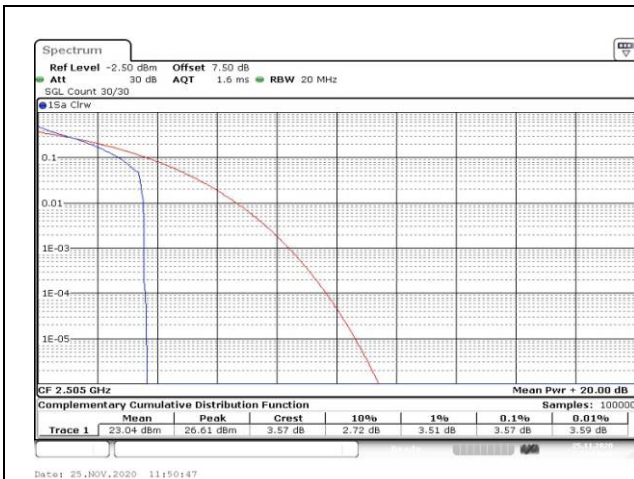


Fig.19

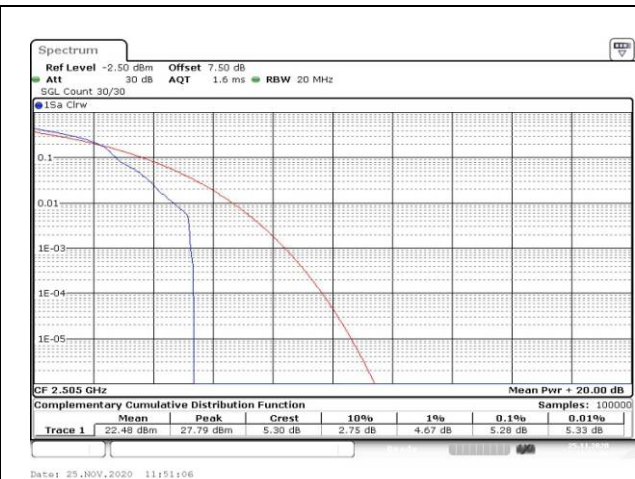


Fig.20



Fig.21

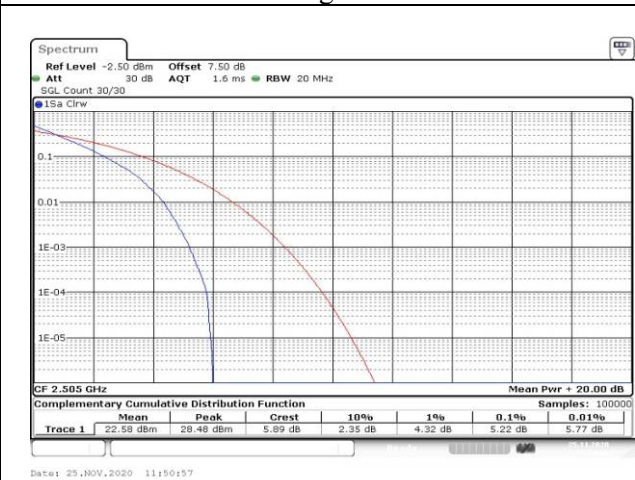


Fig.22

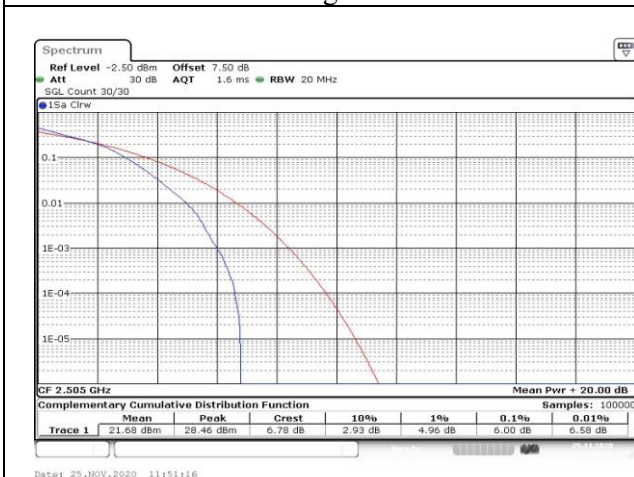


Fig.23

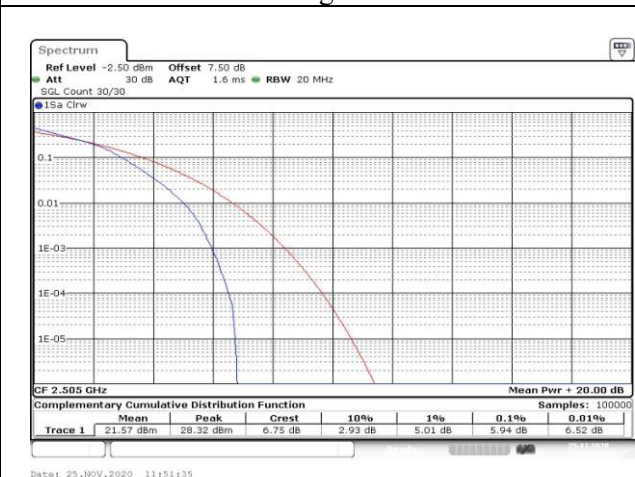


Fig.24

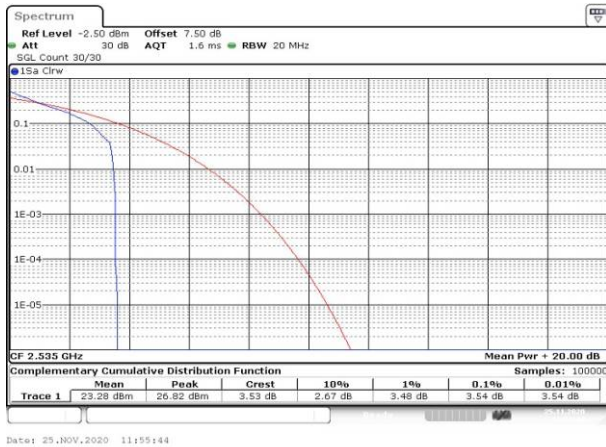


Fig.25

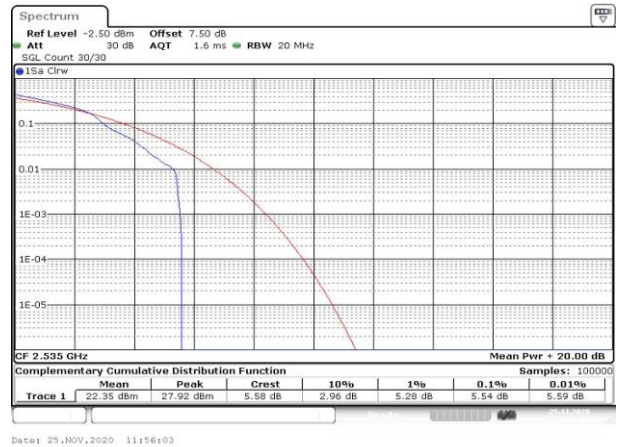


Fig.26

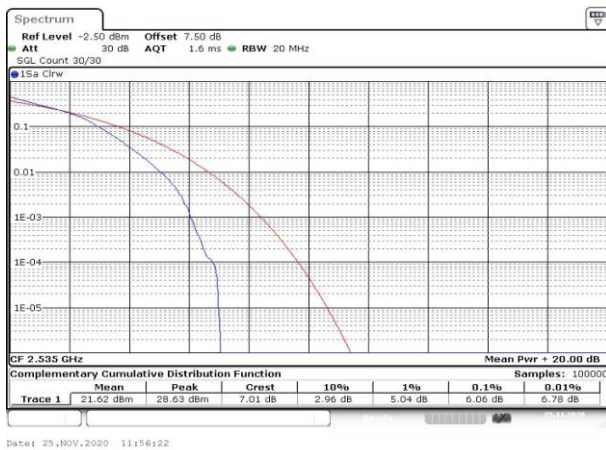


Fig.27

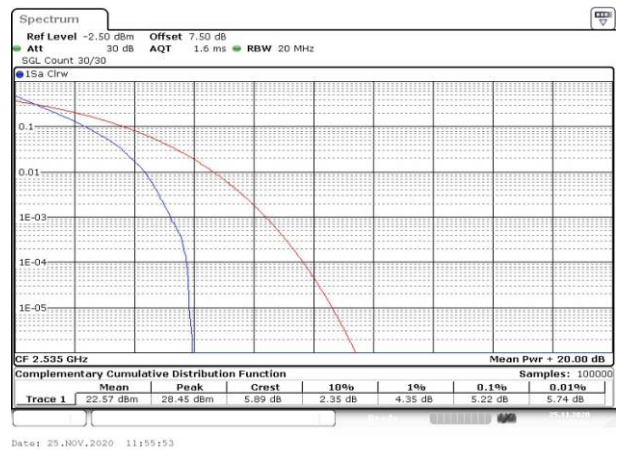


Fig.28

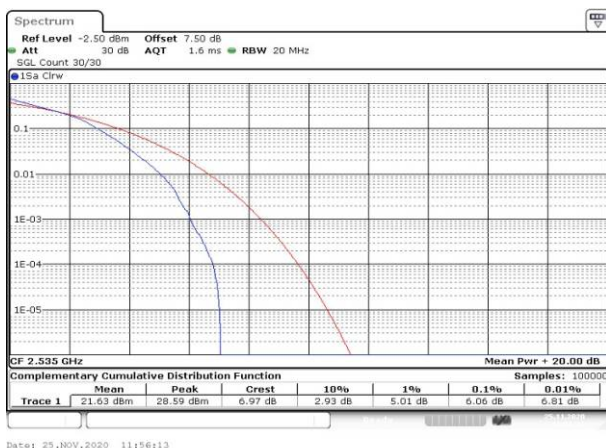


Fig.29

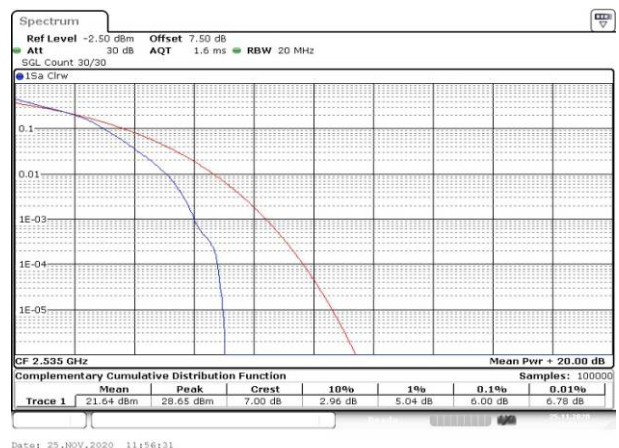


Fig.30