

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Rx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	699.7	23017	1.4	1	0	23.56	
				1	3	23.55	
				1	5	23.47	
				3	0	23.53	
				3	1	23.52	
				3	3	23.52	
				6	0	22.62	
	707.5	23095		1	0	23.44	
				1	3	23.46	
				1	5	23.45	
				3	0	23.38	
				3	1	23.48	
				3	3	23.42	
				6	0	22.44	
	715.3	23173		1	0	23.34	
				1	3	23.34	
				1	5	23.29	
				3	0	23.36	
				3	1	23.26	
				3	3	23.21	
				6	0	22.32	
	16QAM	699.7		23017	1	0	22.69
					1	3	22.81
					1	5	22.55
3			0		22.70		
3			1		22.86		
3			3		22.77		
6			0		21.68		
707.5		23095	1	0	22.72		
			1	3	22.53		
			1	5	22.56		
			3	0	22.35		
			3	1	22.53		
			3	3	22.63		
			6	0	21.59		
715.3		23173	1	0	22.69		
			1	3	22.69		
			1	5	22.69		
			3	0	22.46		
	3		1	22.44			
	3		3	22.35			
	6		0	21.44			

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	699.7	23017	1.4	1	0	21.59
				1	3	21.57
				1	5	21.57
				3	0	21.64
				3	1	21.64
				3	3	21.65
				6	0	21.81
	707.5	23095		1	0	21.47
				1	3	21.52
				1	5	21.45
				3	0	21.52
				3	1	21.51
				3	3	21.52
				6	0	21.59
	715.3	23173		1	0	21.39
				1	3	21.46
				1	5	21.45
				3	0	21.38
				3	1	21.40
				3	3	21.46
				6	0	21.49

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	700.5	23025	3	1	0	23.63	
				1	8	23.52	
				1	14	23.54	
				8	0	22.70	
				8	4	22.62	
				8	7	22.64	
				15	0	22.67	
	707.5	23095		1	0	23.70	
				1	8	23.53	
				1	14	23.58	
				8	0	22.56	
				8	4	22.56	
				8	7	22.60	
				15	0	22.63	
	714.5	23165		1	0	23.51	
				1	8	23.40	
				1	14	23.49	
				8	0	22.51	
				8	4	22.43	
				8	7	22.38	
				15	0	22.47	
	16QAM	700.5		23025	1	0	22.96
					1	8	22.85
					1	14	22.90
8					0	21.69	
8					4	21.69	
8					7	21.69	
15					0	21.65	
707.5		23095	1	0	22.86		
			1	8	22.81		
			1	14	22.83		
			8	0	21.53		
			8	4	21.56		
			8	7	21.60		
			15	0	21.61		
714.5		23165	1	0	22.85		
			1	8	22.66		
			1	14	22.80		
			8	0	21.45		
			8	4	21.39		
			8	7	21.45		
15	0	21.39					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	700.5	23025	3	1	0	21.76
				1	8	21.74
				1	14	21.72
				8	0	21.77
				8	4	21.74
				8	7	21.63
				15	0	21.68
	707.5	23095		1	0	21.67
				1	8	21.56
				1	14	21.64
				8	0	21.65
				8	4	21.60
				8	7	21.57
				15	0	21.57
	714.5	23165		1	0	21.44
				1	8	21.52
				1	14	21.49
				8	0	21.41
				8	4	21.41
				8	7	21.42
				15	0	21.41

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	701.5	23035	5	1	0	23.60	
				1	12	23.62	
				1	24	23.60	
				12	0	22.73	
				12	7	22.66	
				12	13	22.66	
				25	0	22.69	
	707.5	23095		1	0	23.65	
				1	12	23.56	
				1	24	23.51	
				12	0	22.69	
				12	7	22.61	
				12	13	22.62	
				25	0	22.56	
	713.5	23155		1	0	23.50	
				1	12	23.36	
				1	24	23.45	
				12	0	22.53	
				12	7	22.45	
				12	13	22.51	
				25	0	22.45	
	16QAM	701.5		23035	1	0	22.77
					1	12	22.60
					1	24	22.56
12			0		21.79		
12			7		21.75		
12			13		21.68		
25			0		21.82		
707.5		23095	1	0	23.00		
			1	12	22.60		
			1	24	22.58		
			12	0	21.68		
			12	7	21.66		
			12	13	21.60		
			25	0	21.61		
713.5		23155	1	0	22.74		
			1	12	22.90		
			1	24	22.84		
			12	0	21.58		
			12	7	21.61		
			12	13	21.42		
			25	0	21.54		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	701.5	23035	5	1	0	21.73
				1	12	21.71
				1	24	21.68
				12	0	21.76
				12	7	21.70
				12	13	21.76
	25	0		21.73		
	707.5	23095		1	0	21.67
				1	12	21.60
				1	24	21.66
				12	0	21.68
				12	7	21.72
				12	13	21.60
	25	0		21.64		
	713.5	23155		1	0	21.58
				1	12	21.56
				1	24	21.54
				12	0	21.51
				12	7	21.49
				12	13	21.54
				25	0	21.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	704	23060	10	1	0	23.69	
				1	25	23.49	
				1	49	23.59	
				25	0	22.62	
				25	12	22.62	
				25	25	22.64	
	50	0		22.72			
	707.5	23095		1	0	23.54	
				1	25	23.47	
				1	49	23.39	
				25	0	22.66	
				25	12	22.64	
				25	25	22.64	
	50	0		22.57			
	711	23130		1	0	24.00	
				1	25	23.43	
				1	49	23.42	
				25	0	22.62	
				25	12	22.54	
				25	25	22.48	
	50	0		22.63			
	16QAM	704		23060	1	0	22.76
					1	25	22.43
					1	49	22.71
25					0	21.79	
25					12	21.72	
25					25	21.71	
50		0		21.74			
707.5		23095		1	0	22.69	
				1	25	22.63	
			1	49	22.57		
			25	0	21.66		
			25	12	21.55		
			25	25	21.60		
50		0	21.58				
711		23130	1	0	22.94		
			1	25	22.67		
			1	49	22.81		
			25	0	21.67		
			25	12	21.60		
			25	25	21.58		
			50	0	21.63		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	704	23060	10	1	0	21.70
				1	25	21.71
				1	49	21.72
				25	0	21.78
				25	12	21.69
				25	25	21.74
	707.5	23095		50	0	21.72
				1	0	21.64
				1	25	21.62
				1	49	21.58
				25	0	21.58
				25	12	21.63
	711	23130		25	25	21.63
				50	0	21.54
				1	0	21.63
				1	25	21.57
				1	49	21.56
				25	0	21.65
				25	12	21.59
				25	25	21.65
				50	0	21.61

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	1.082	Fig.2	1.088	Fig.3
	707.5	23095		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	715.3	23173		6	0	1.076	Fig.7	1.082	Fig.8	1.088	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	2.683	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	8.857	Fig.28	8.944	Fig.29	8.857	Fig.30
	707.5	23095		50	0	8.900	Fig.31	8.900	Fig.32	8.900	Fig.33
	711	23130		50	0	8.944	Fig.34	8.944	Fig.35	8.900	Fig.36

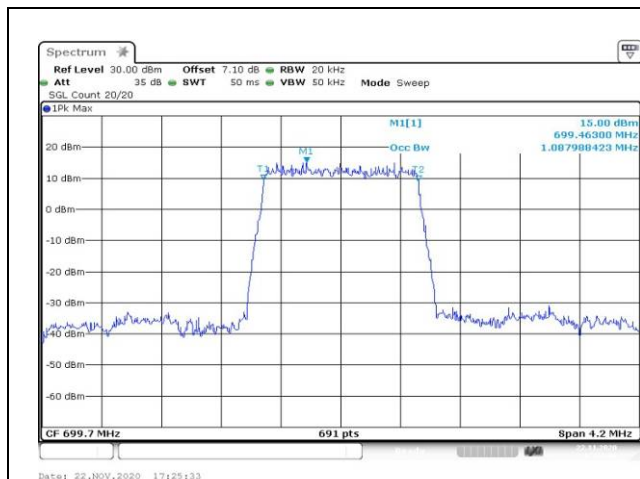


Fig.1

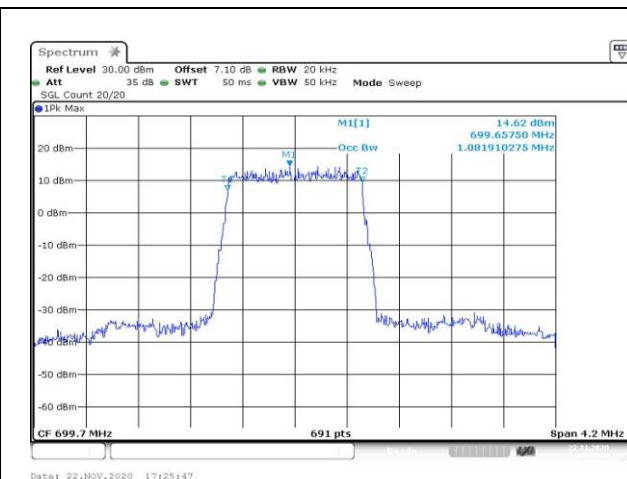


Fig.2

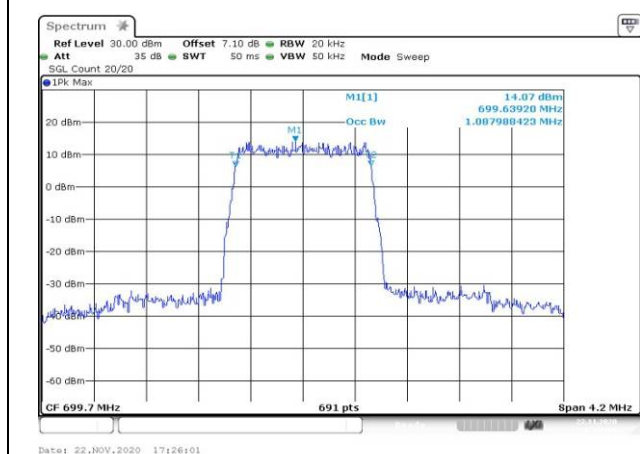


Fig.3

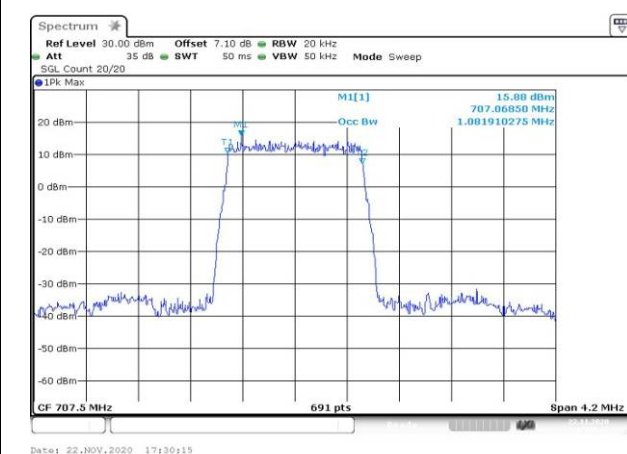


Fig.4

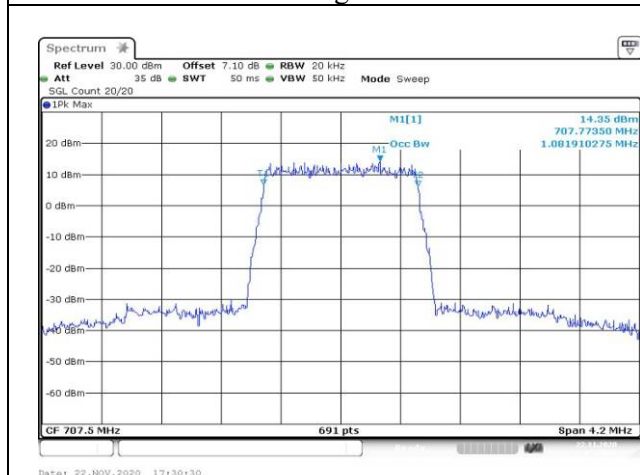


Fig.5

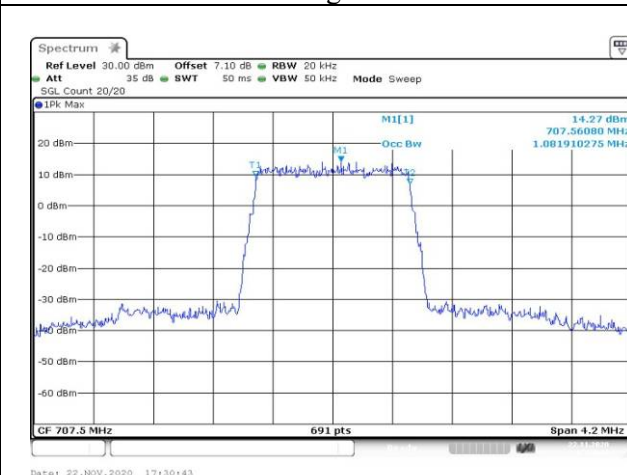
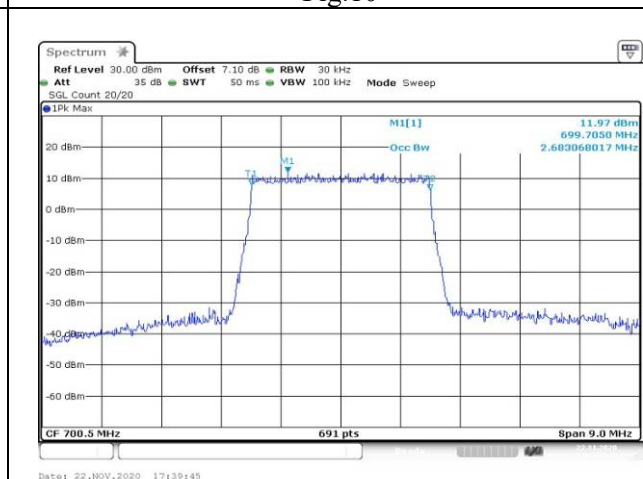
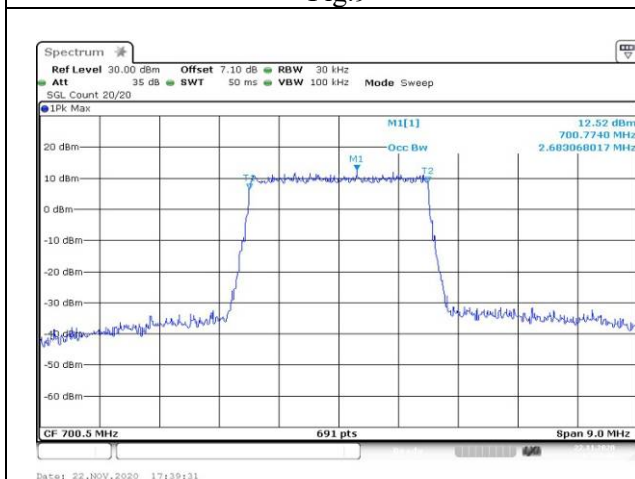
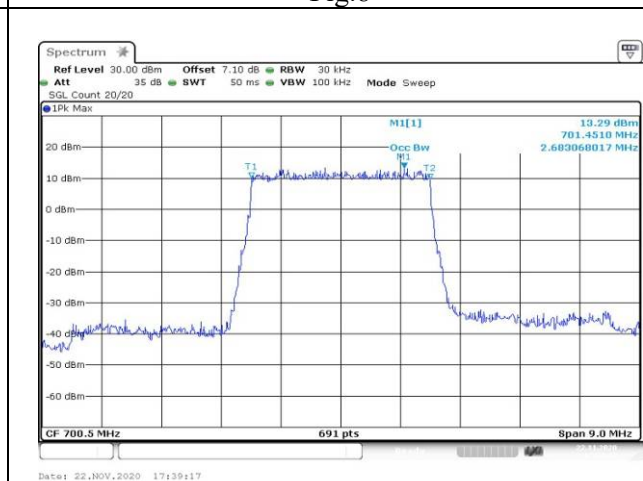
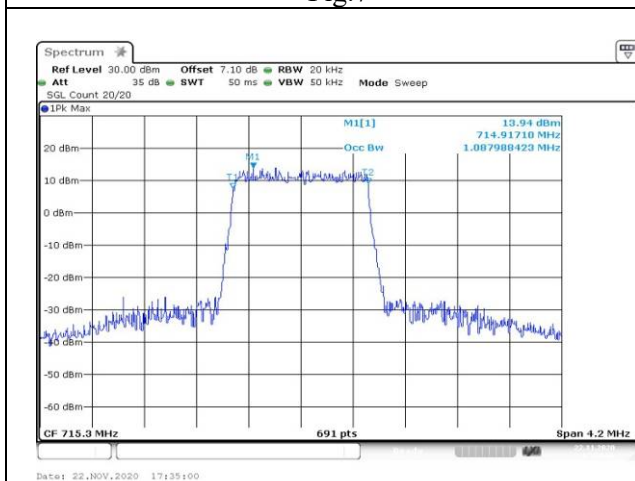
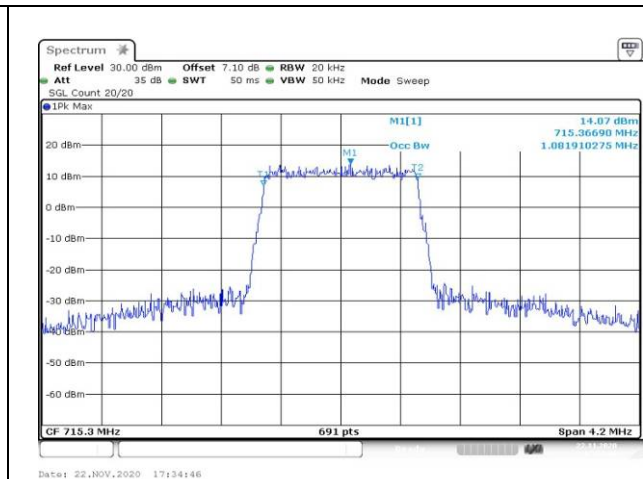
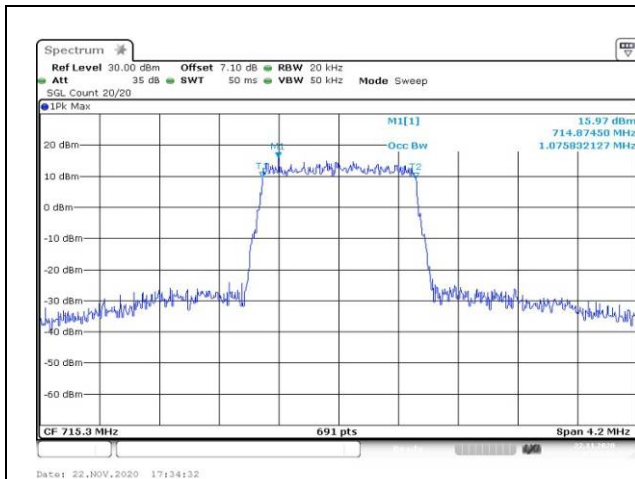


Fig.6



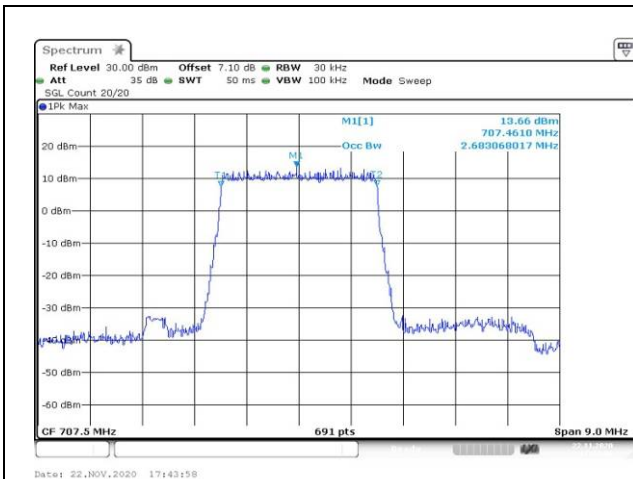


Fig.13

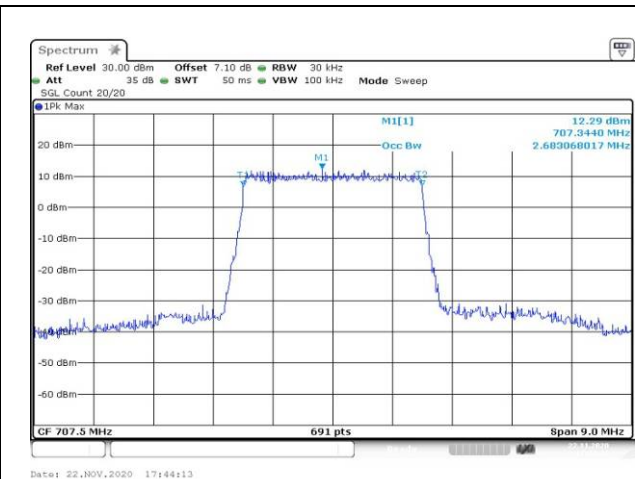


Fig.14

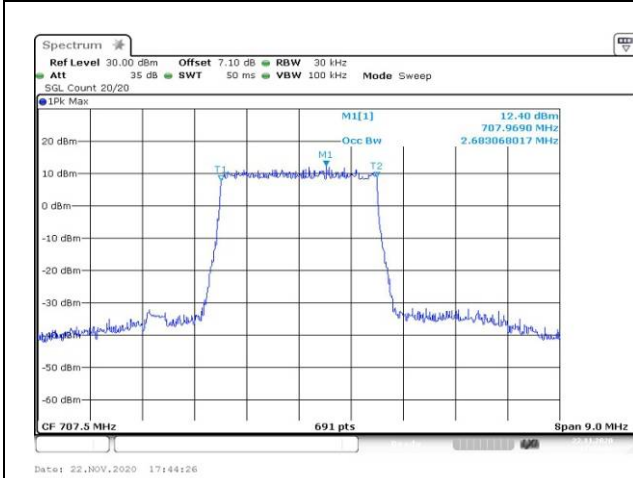


Fig.15

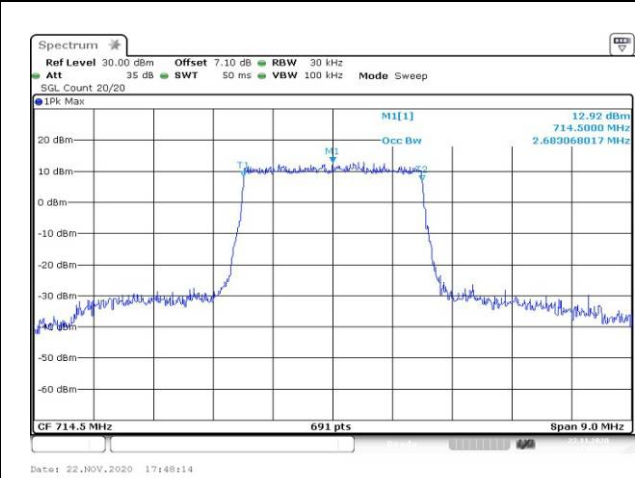


Fig.16

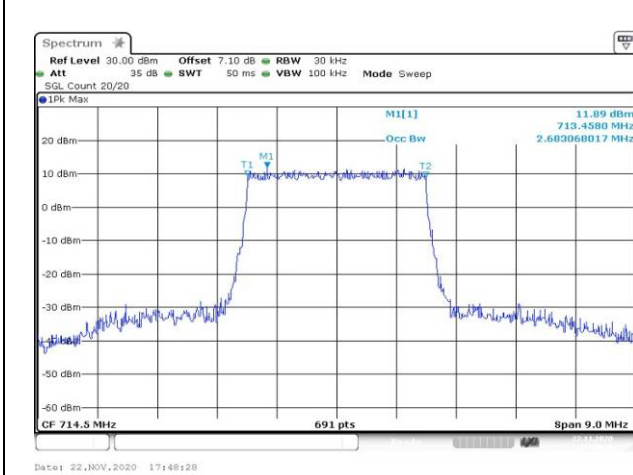


Fig.17

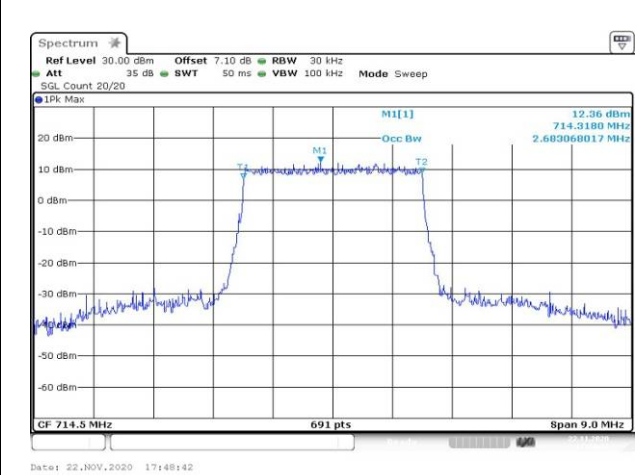


Fig.18

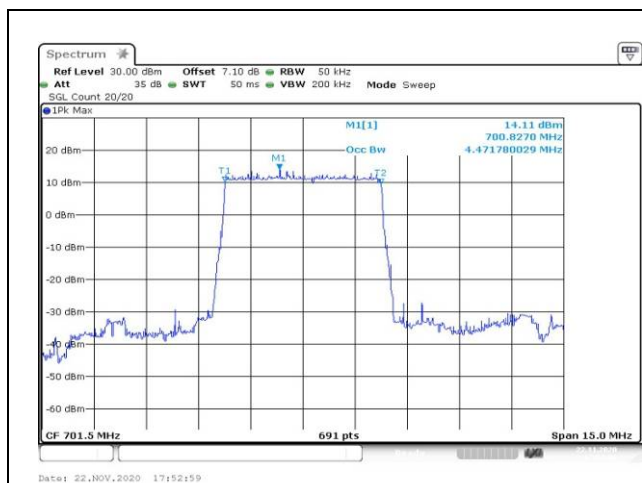


Fig.19

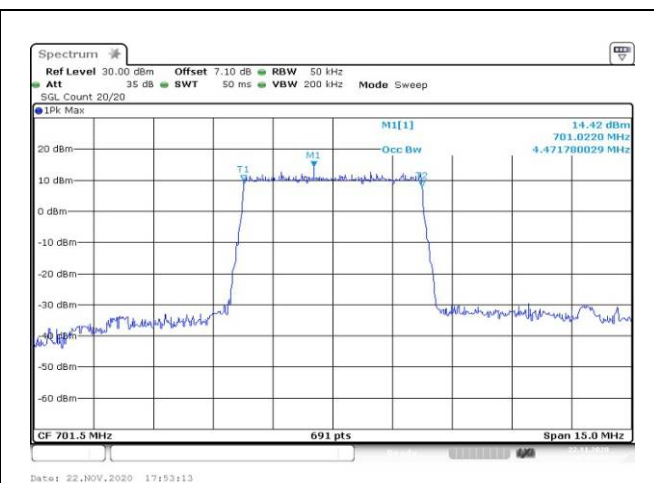


Fig.20

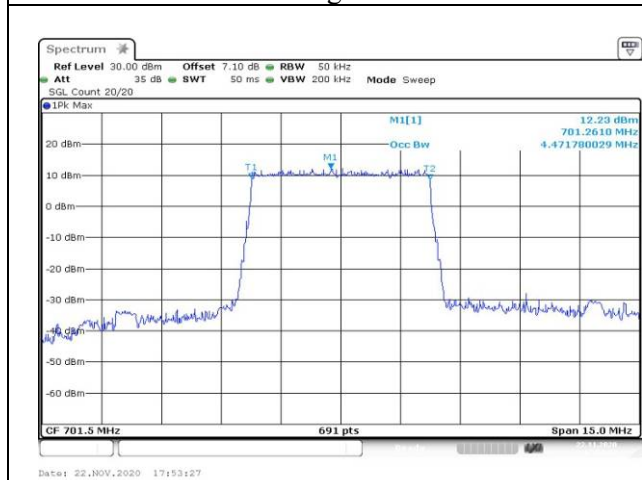


Fig.21

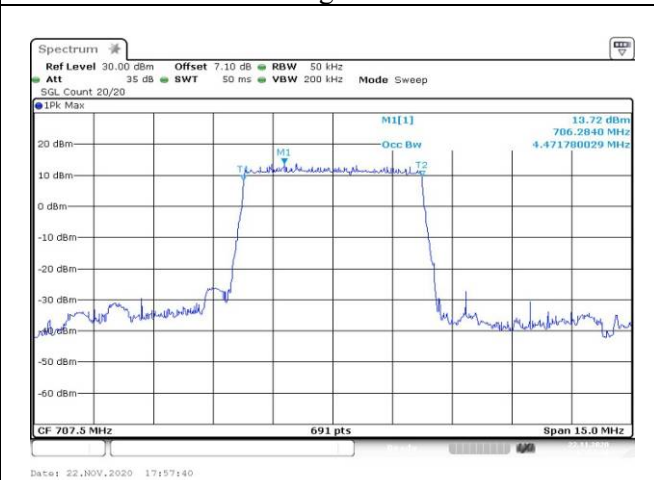


Fig.22

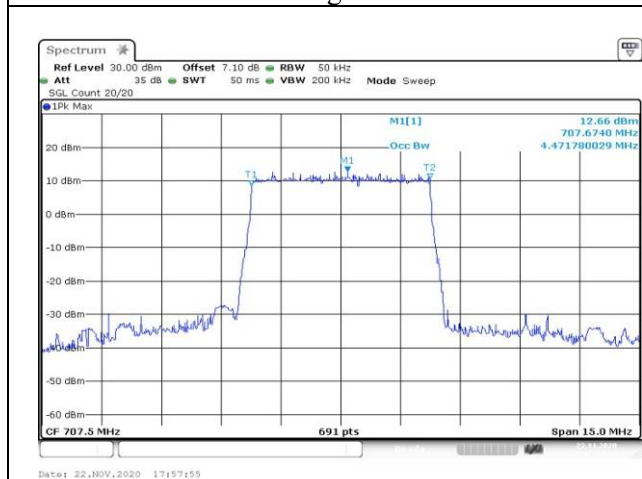


Fig.23

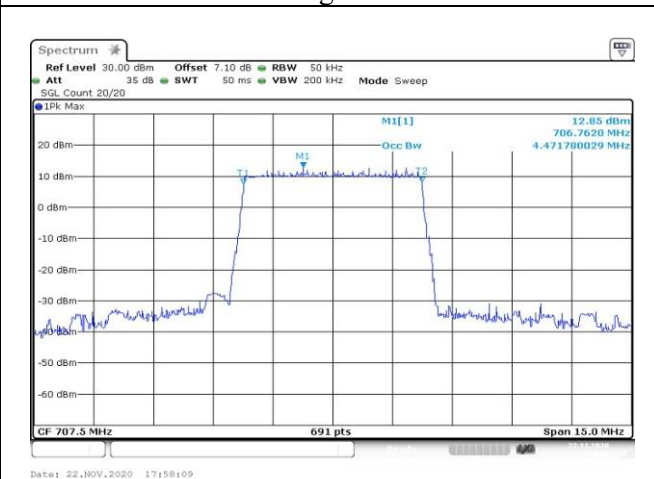
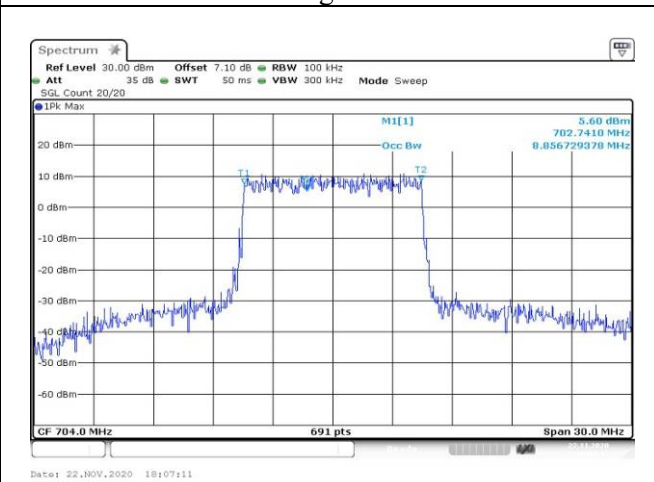
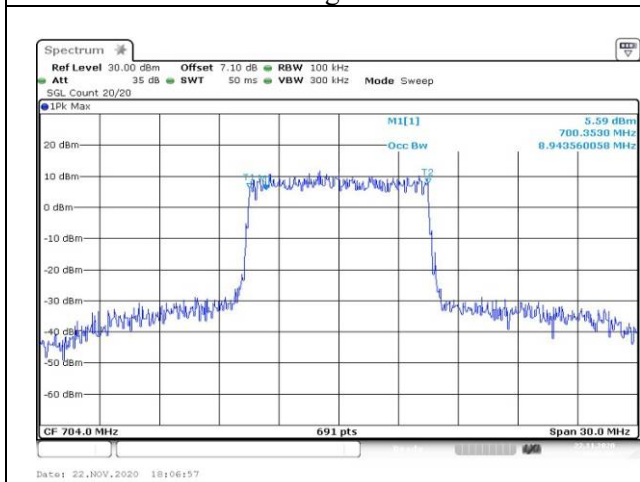
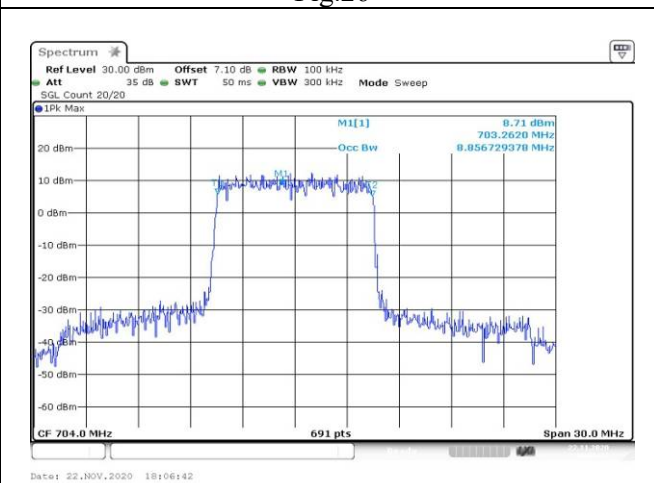
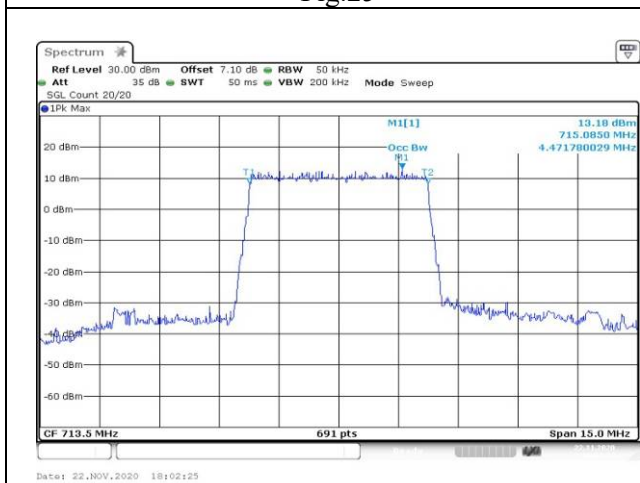
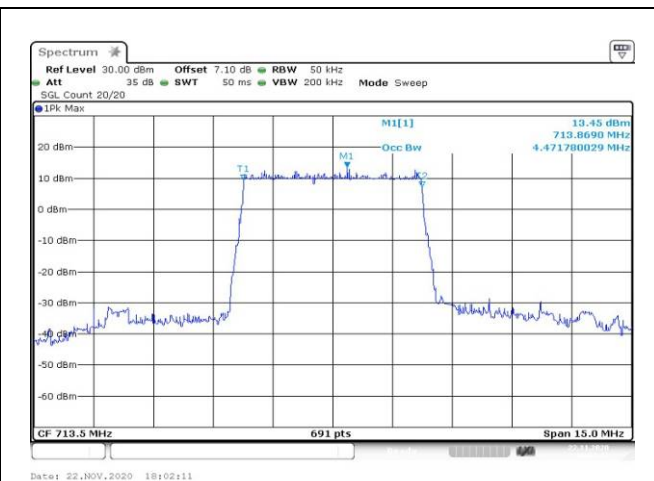
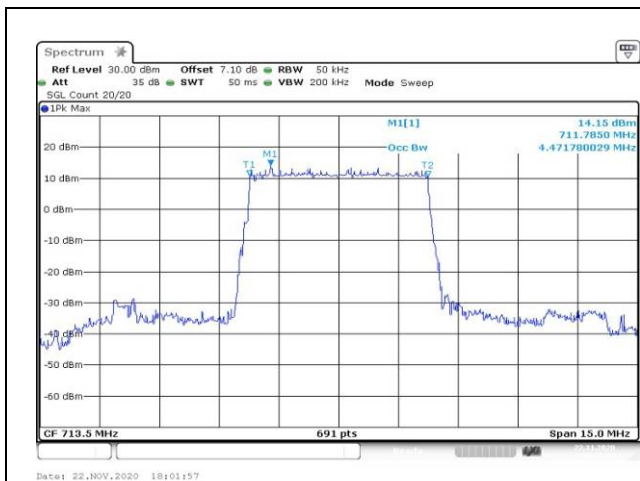


Fig.24



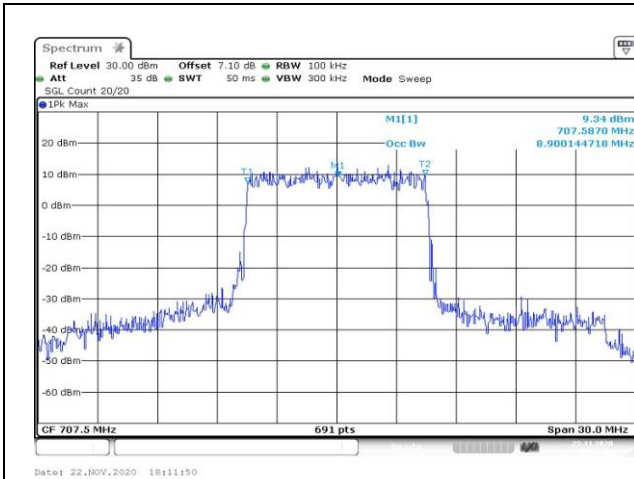


Fig.31

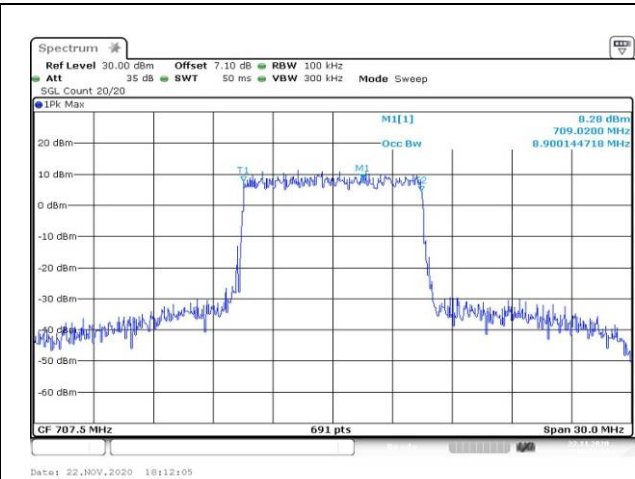


Fig.32

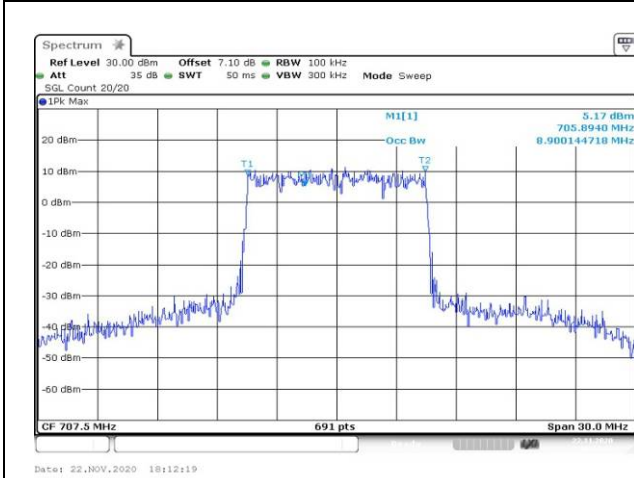


Fig.33

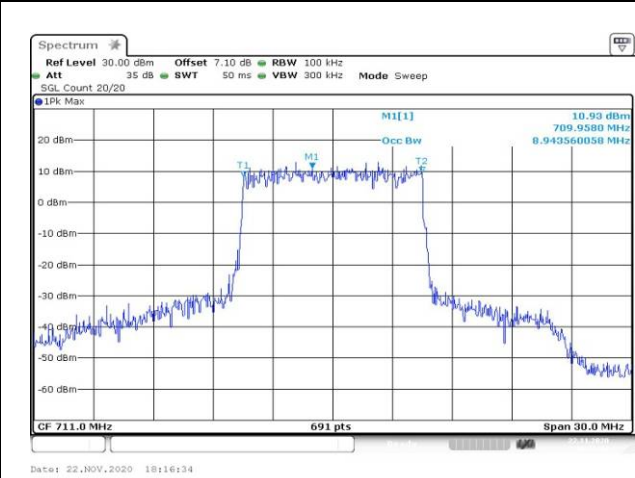


Fig.34

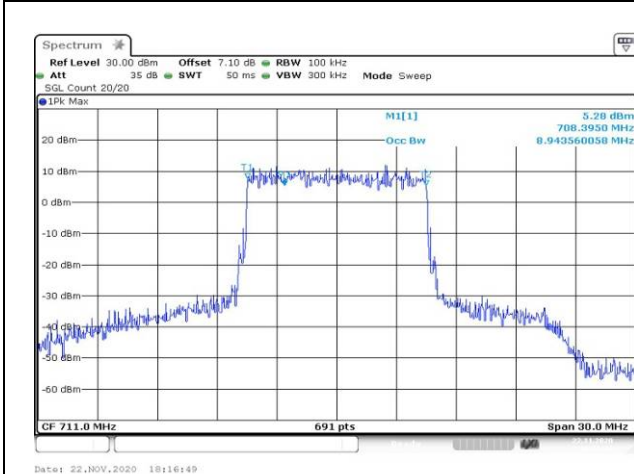


Fig.35

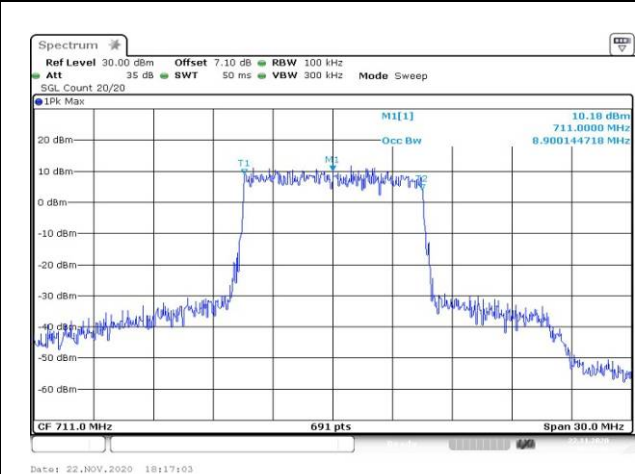


Fig.36

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	
12	699.7	23017	1.4	6	0	1.210	Fig.1	1.216	Fig.2	1.222	Fig.3
	707.5	23095		6	0	1.222	Fig.4	1.216	Fig.5	1.222	Fig.6
	715.3	23173		6	0	1.216	Fig.7	1.210	Fig.8	1.210	Fig.9
	700.5	23025	3	15	0	2.944	Fig.10	2.918	Fig.11	2.957	Fig.12
	707.5	23095		15	0	2.931	Fig.13	2.918	Fig.14	2.944	Fig.15
	714.5	23165		15	0	2.944	Fig.16	2.944	Fig.17	2.904	Fig.18
	701.5	23035	5	25	0	4.841	Fig.19	4.863	Fig.20	4.819	Fig.21
	707.5	23095		25	0	4.863	Fig.22	4.819	Fig.23	4.841	Fig.24
	713.5	23155		25	0	4.863	Fig.25	4.884	Fig.26	4.819	Fig.27
	704	23060	10	50	0	9.508	Fig.28	9.638	Fig.29	9.595	Fig.30
	707.5	23095		50	0	9.638	Fig.31	9.551	Fig.32	9.595	Fig.33
	711	23130		50	0	9.595	Fig.34	9.682	Fig.35	9.595	Fig.36

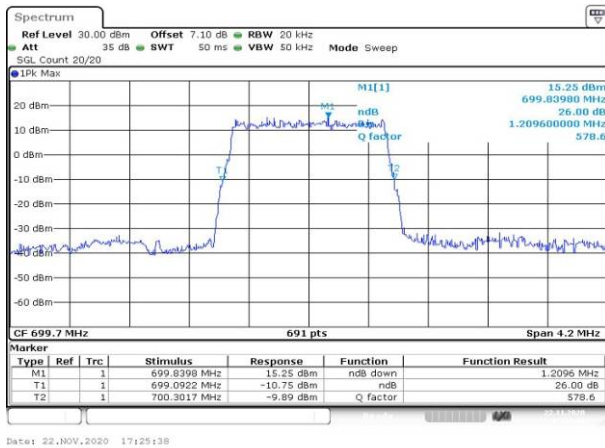


Fig.1

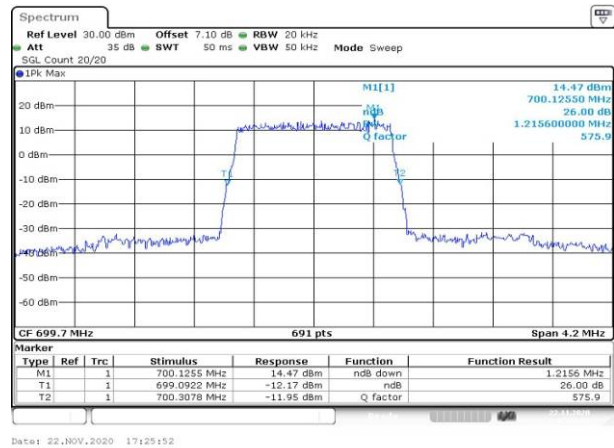


Fig.2

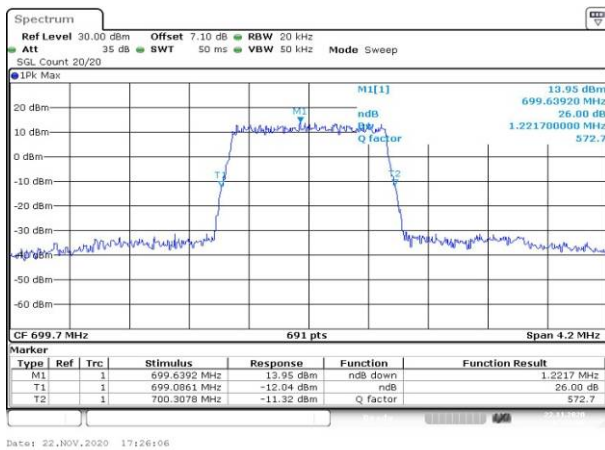


Fig.3

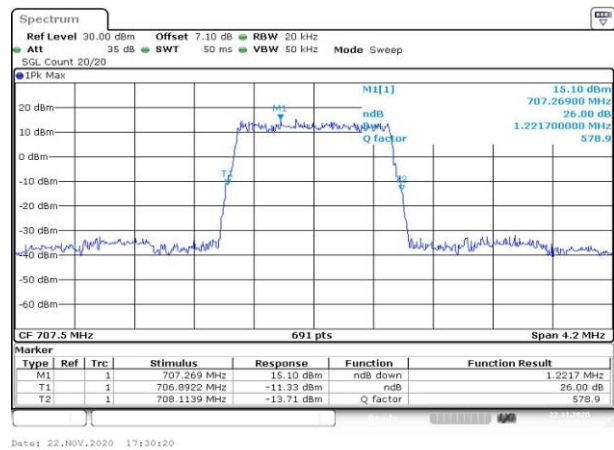


Fig.4

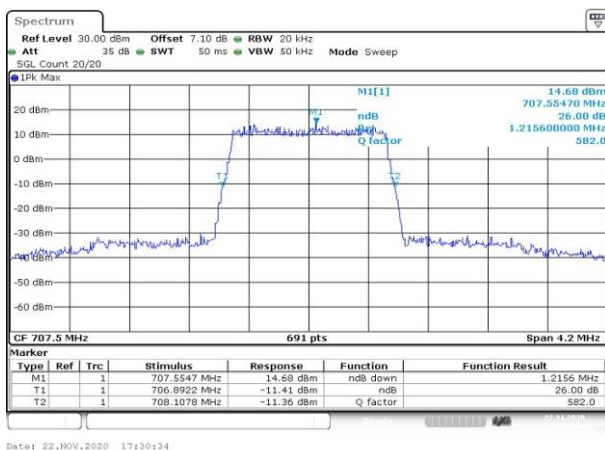


Fig.5

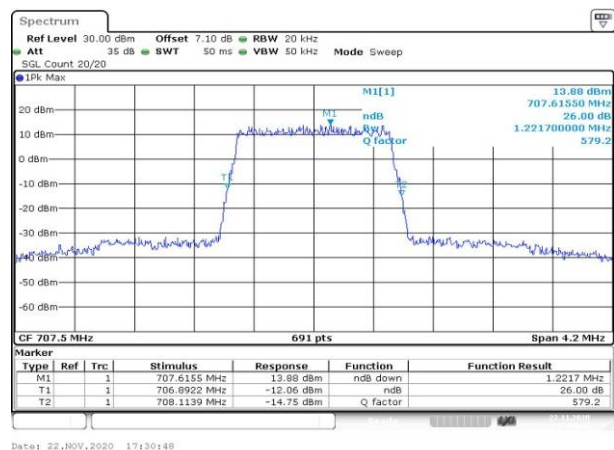


Fig.6

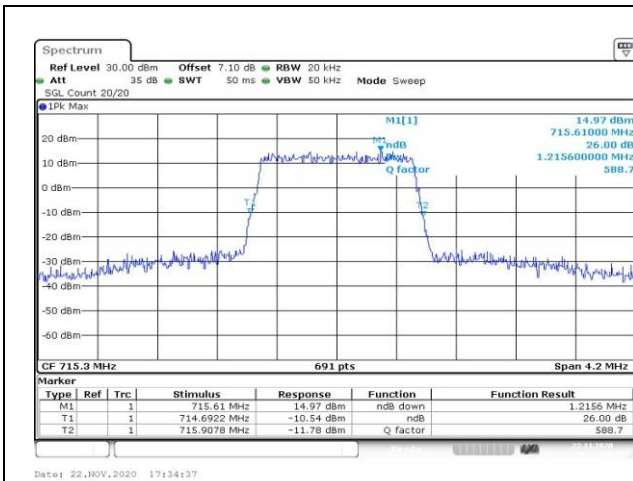


Fig.7

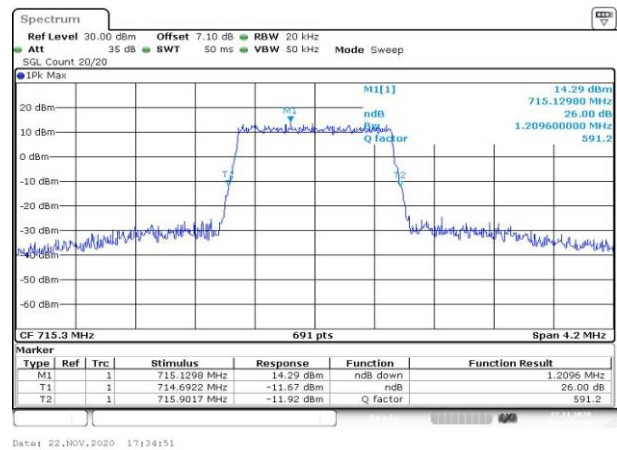


Fig.8

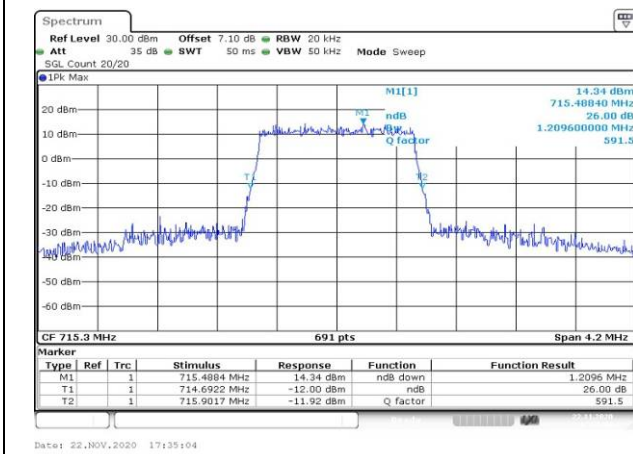


Fig.9

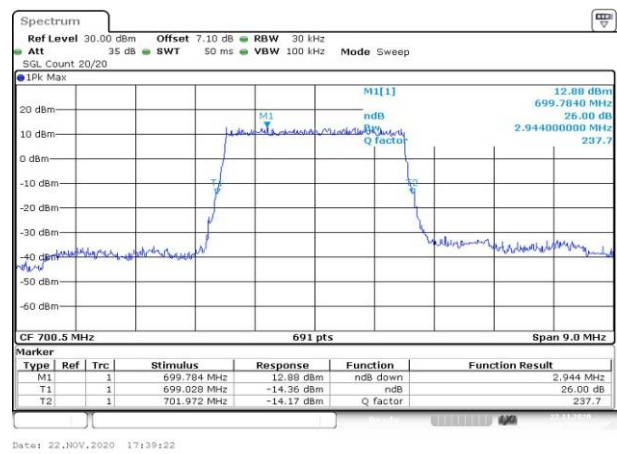


Fig.10

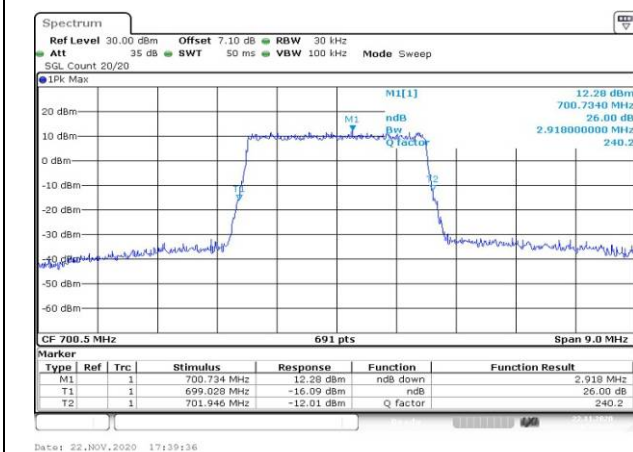


Fig.11

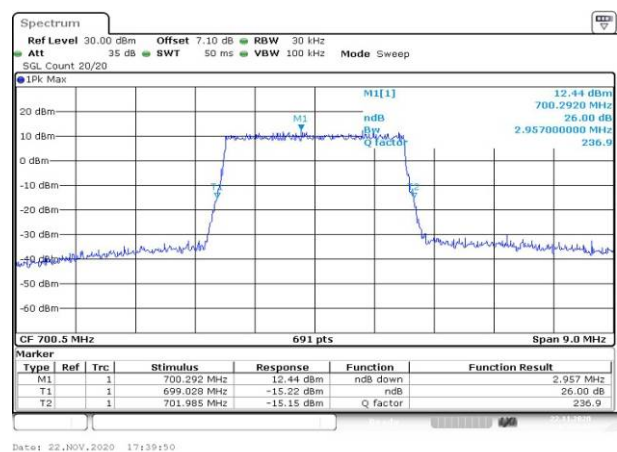


Fig.12

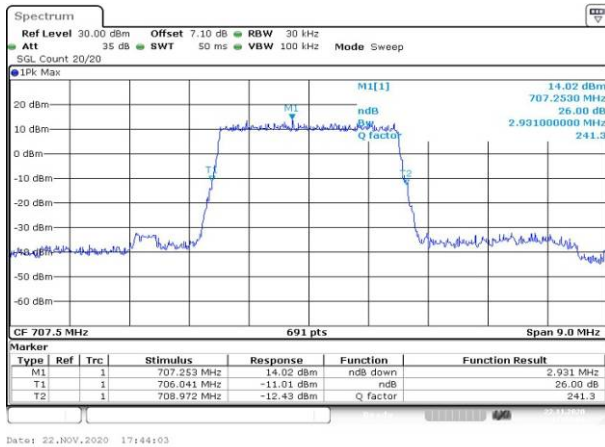


Fig.13

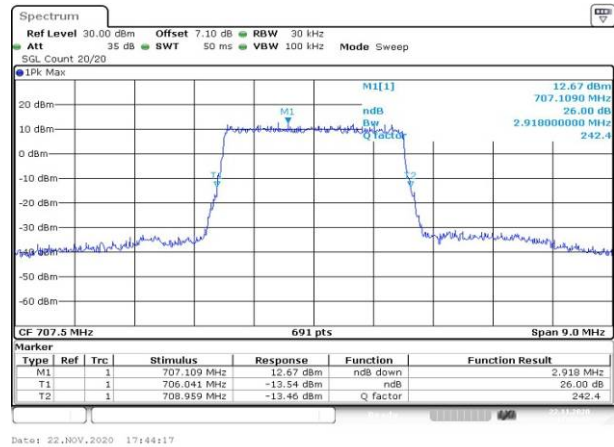


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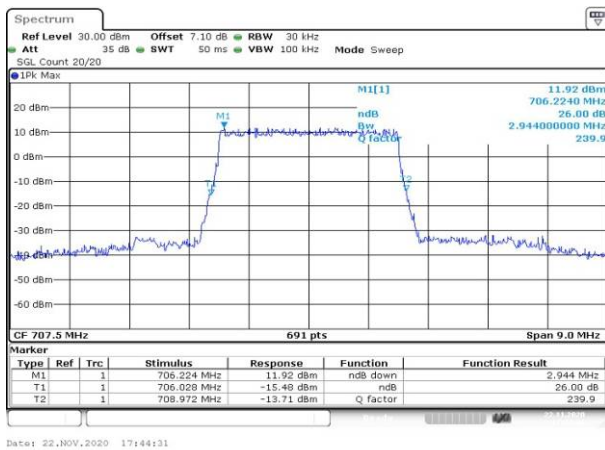


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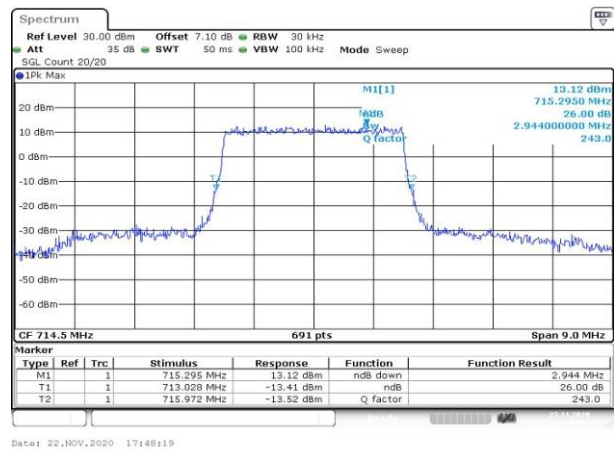


Fig.16

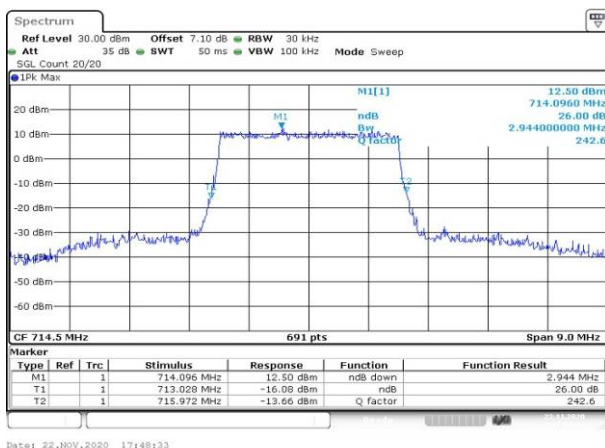


Fig.17

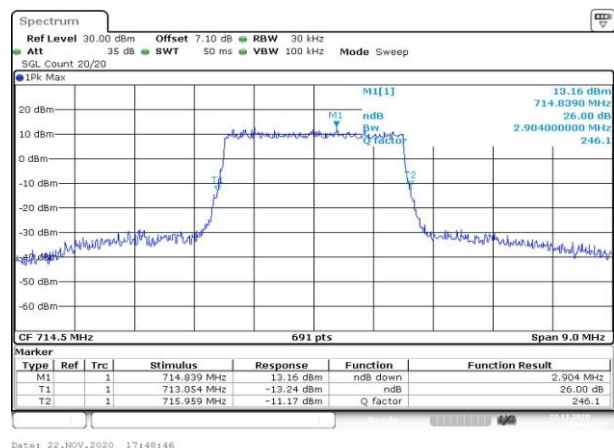


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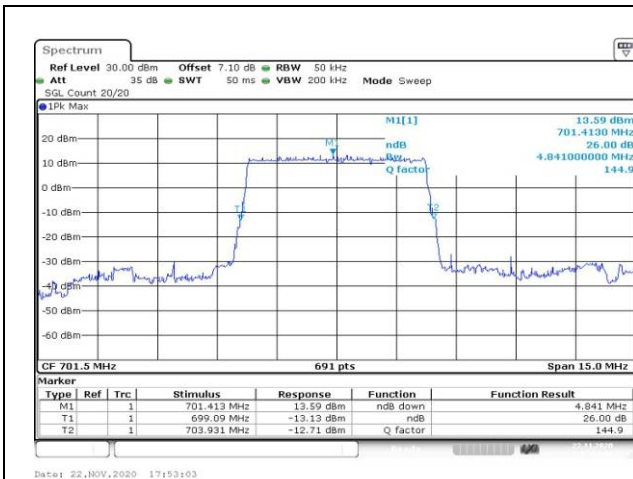


Fig.19

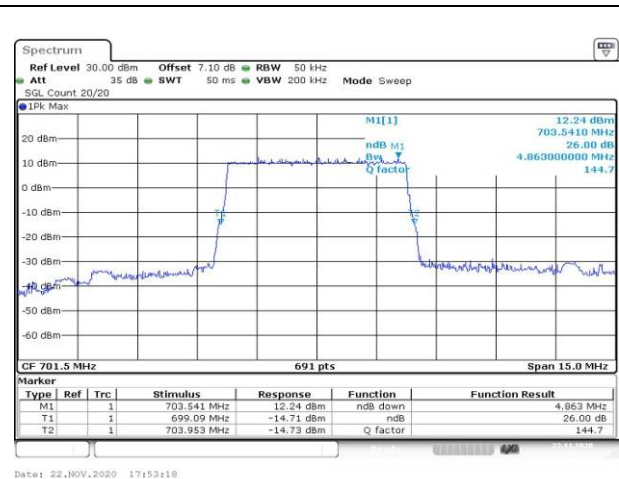


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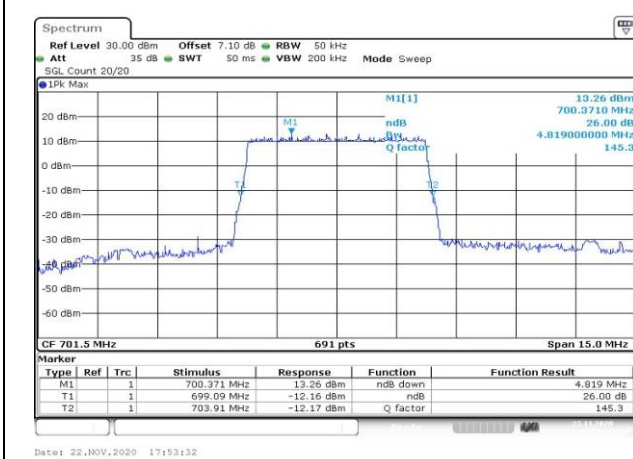


Fig.21



Fig.22

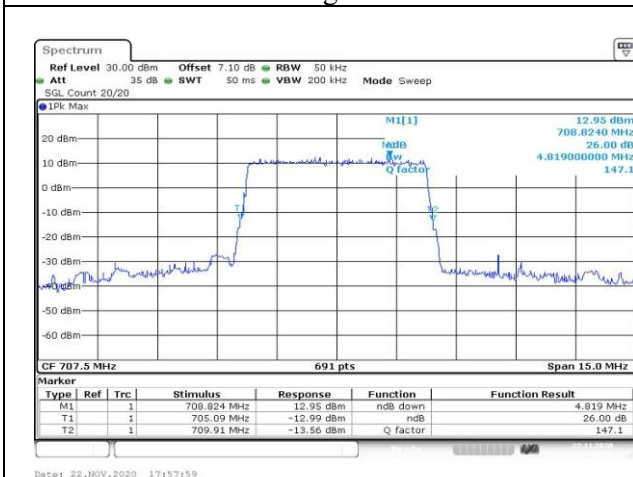


Fig.23

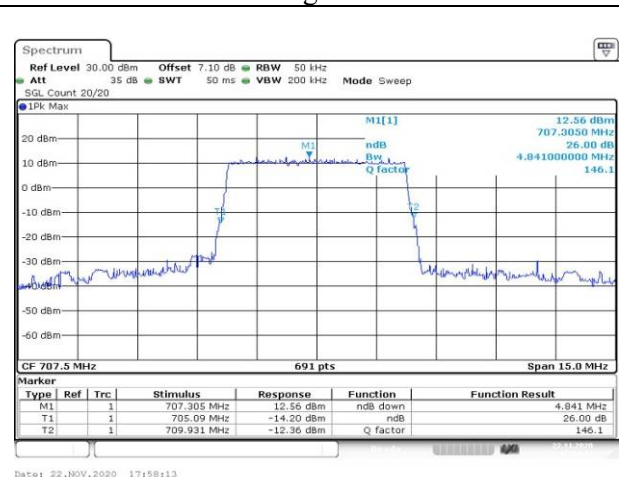


Fig.24

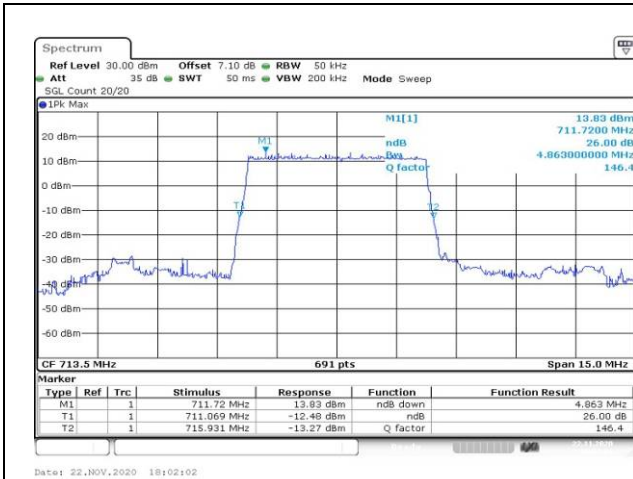


Fig.25

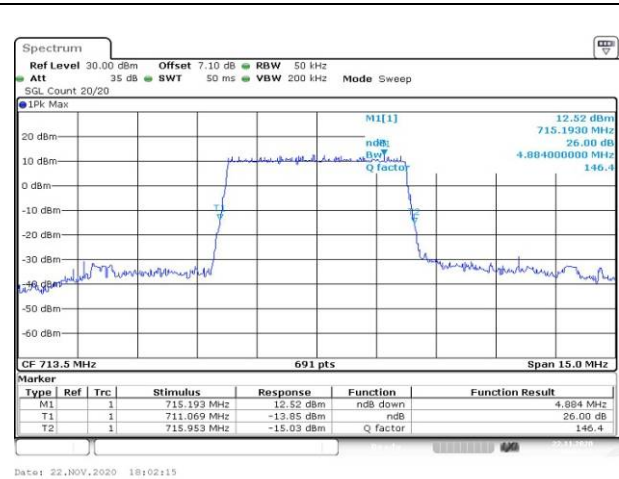


Fig.26

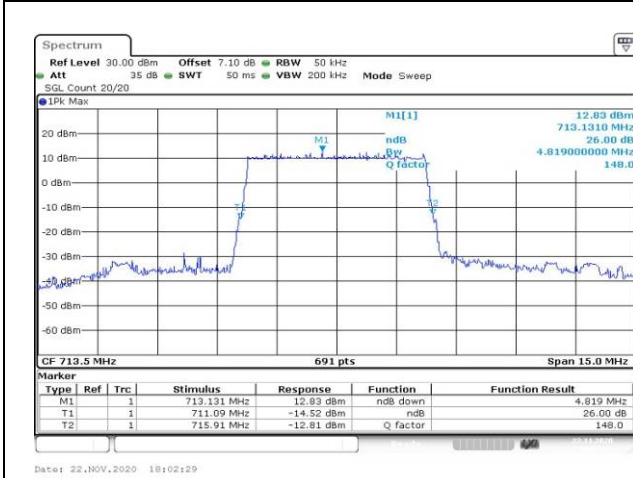


Fig.27

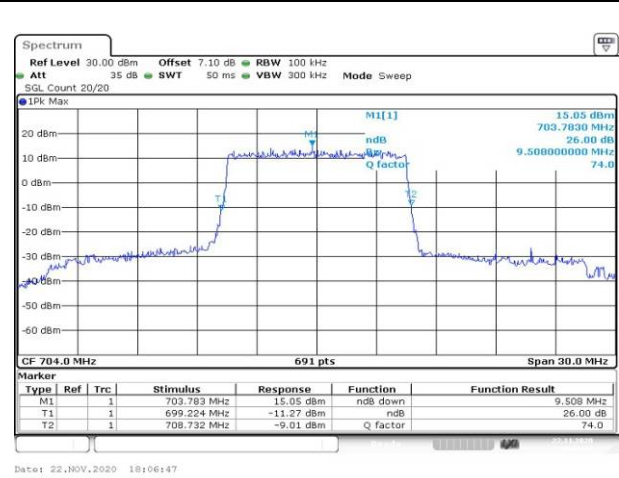


Fig.28

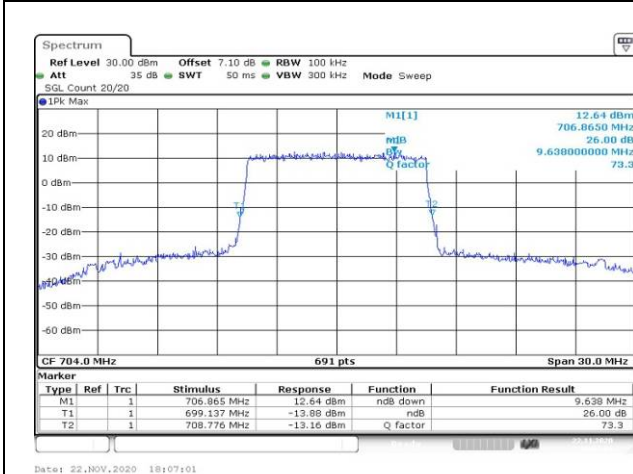


Fig.29

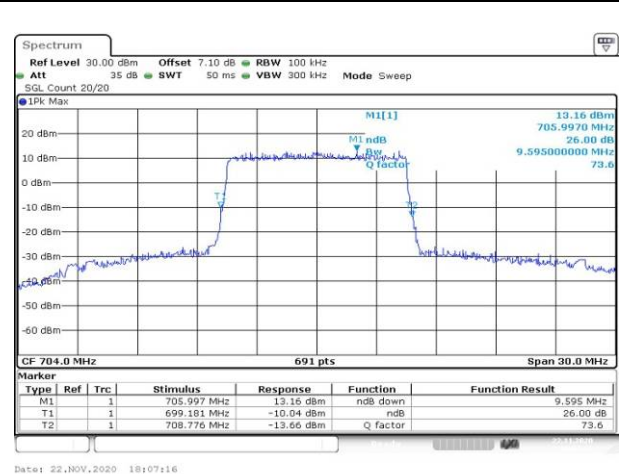


Fig.30

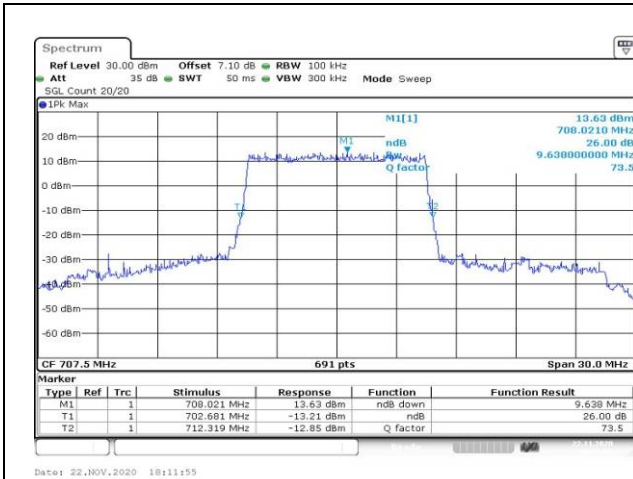


Fig.31

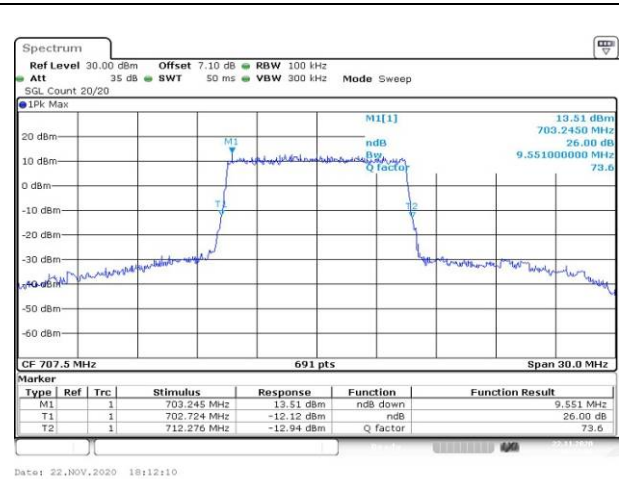


Fig.32

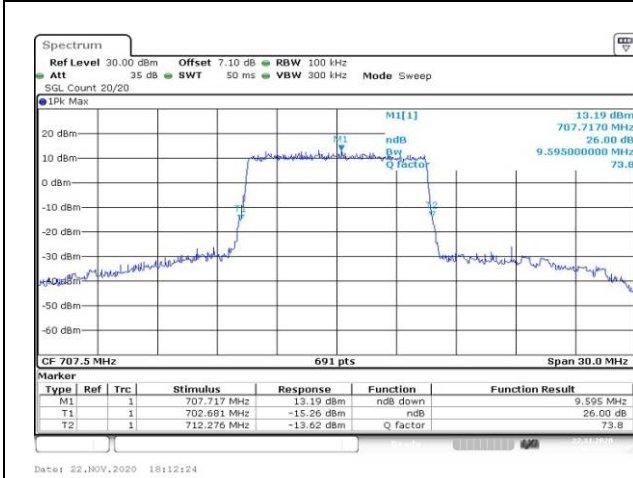


Fig.33

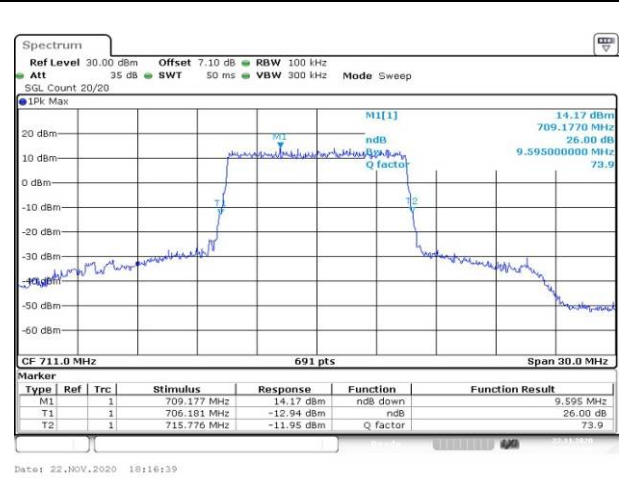


Fig.34

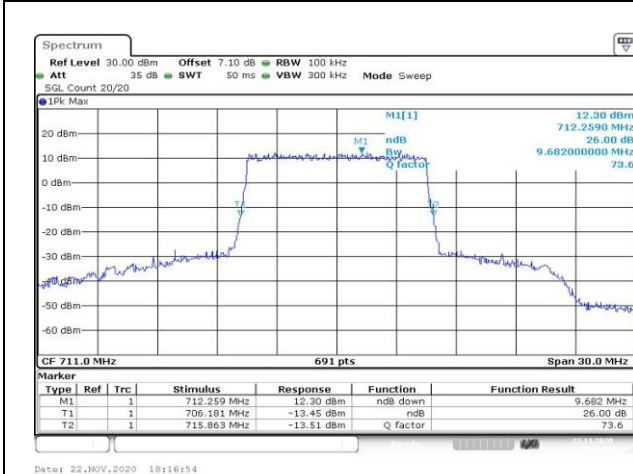


Fig.35



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

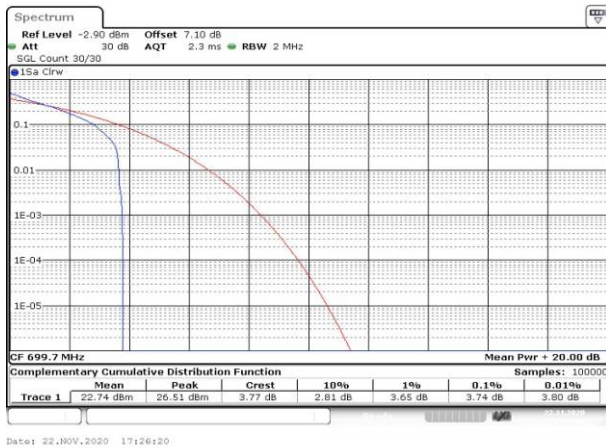


Fig.1

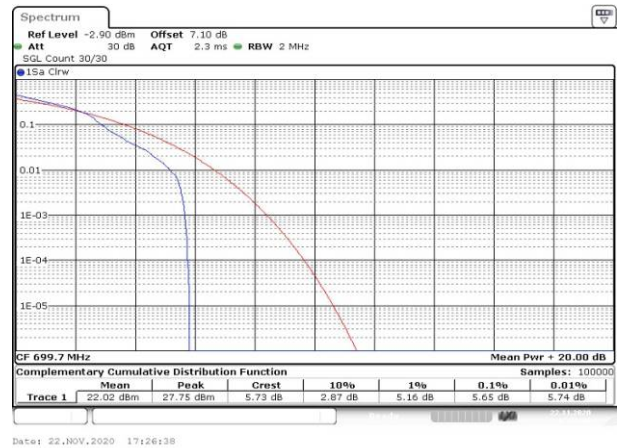


Fig.2

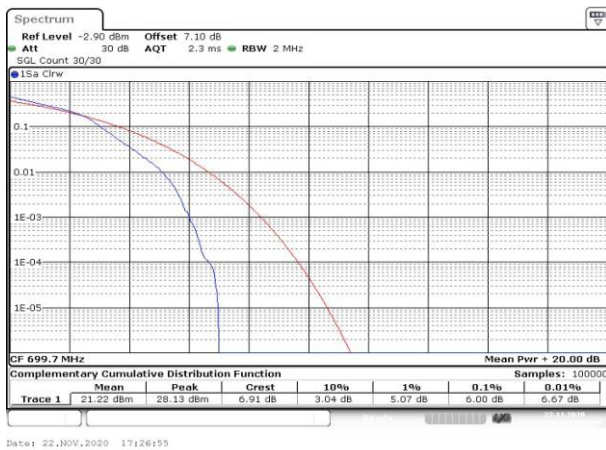


Fig.3

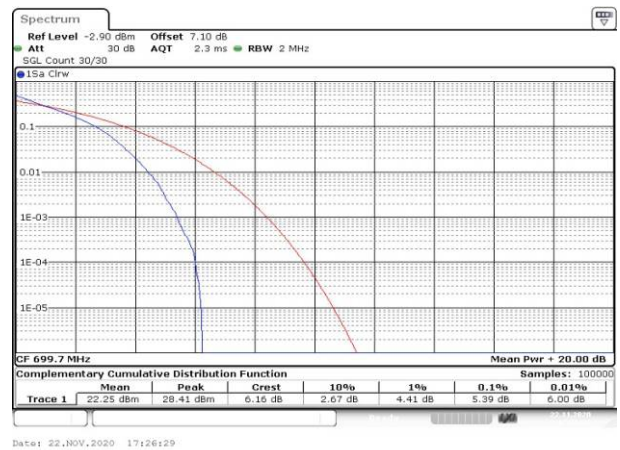


Fig.4

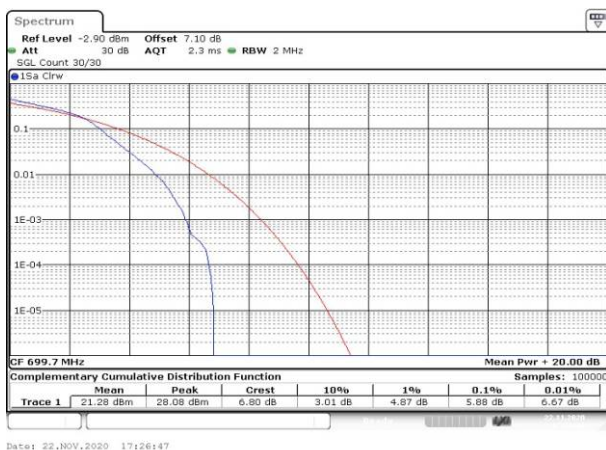


Fig.5

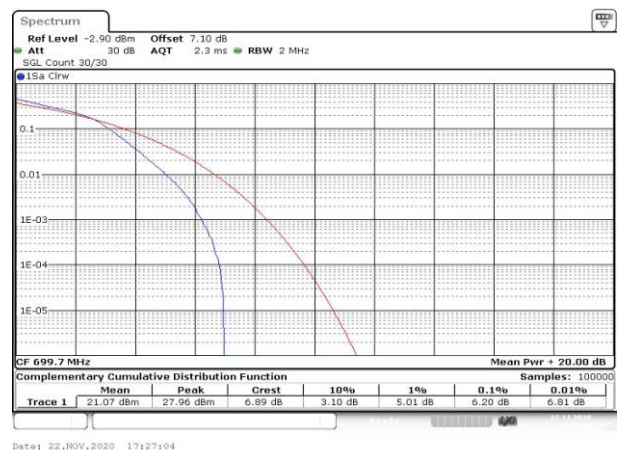


Fig.6

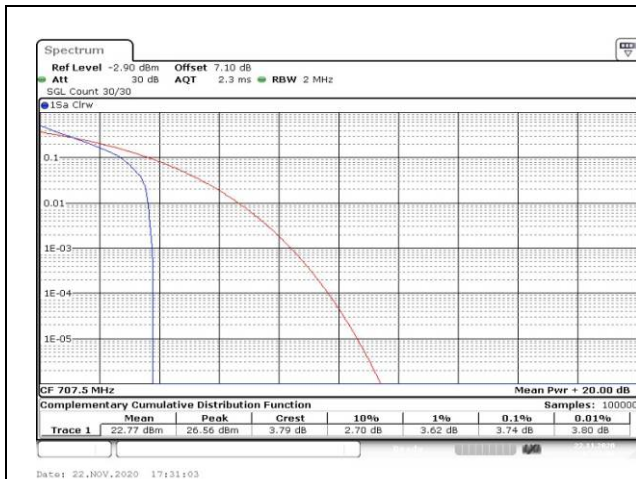


Fig.7

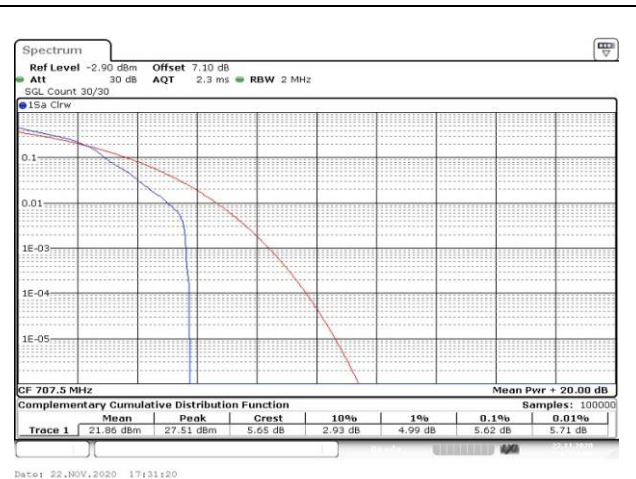


Fig.8

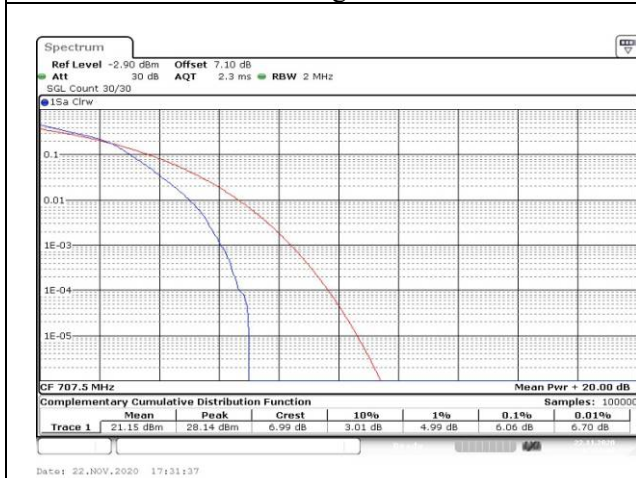


Fig.9

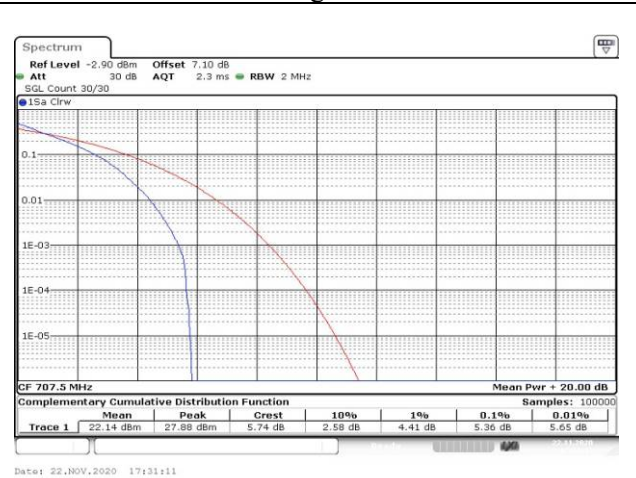


Fig.10

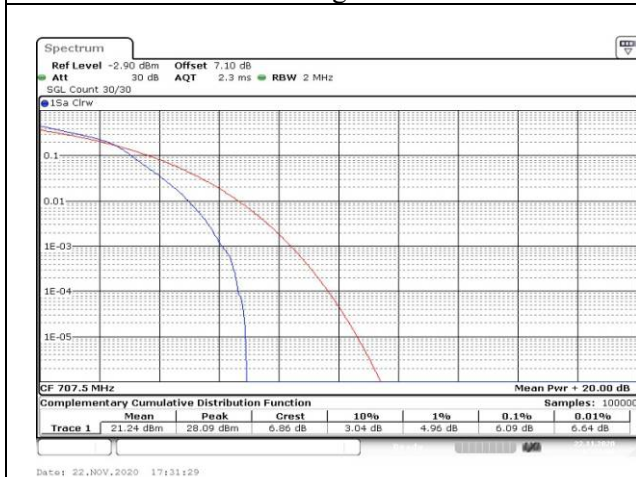


Fig.11

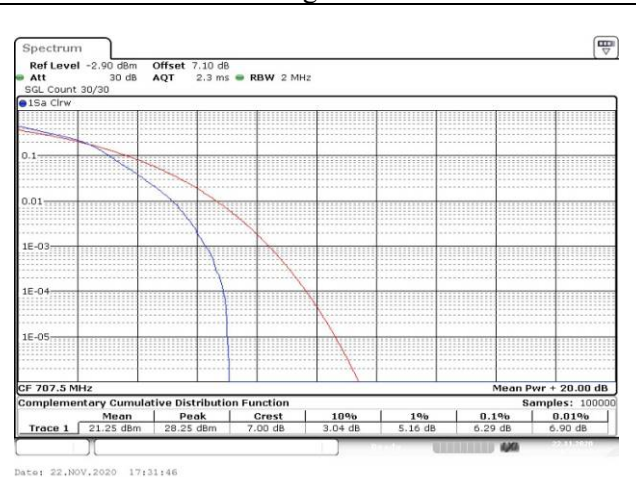


Fig.12

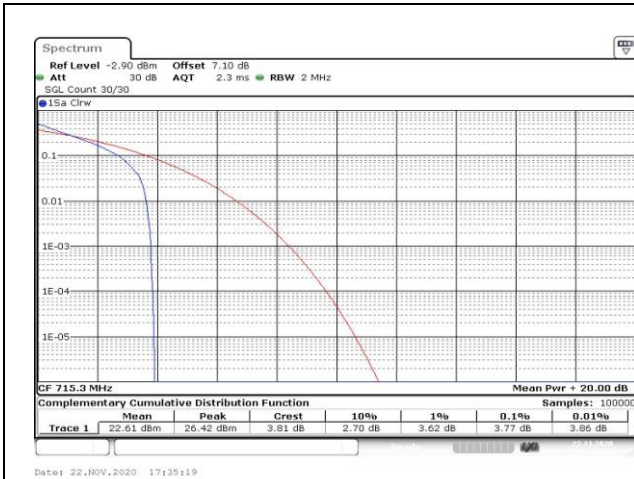


Fig.13

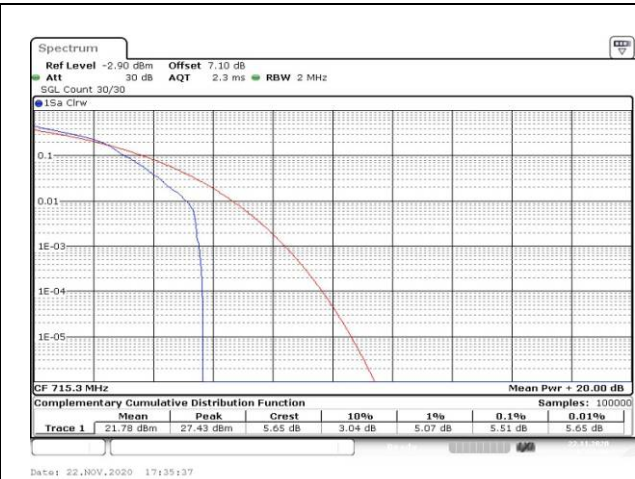


Fig.14



Fig.15

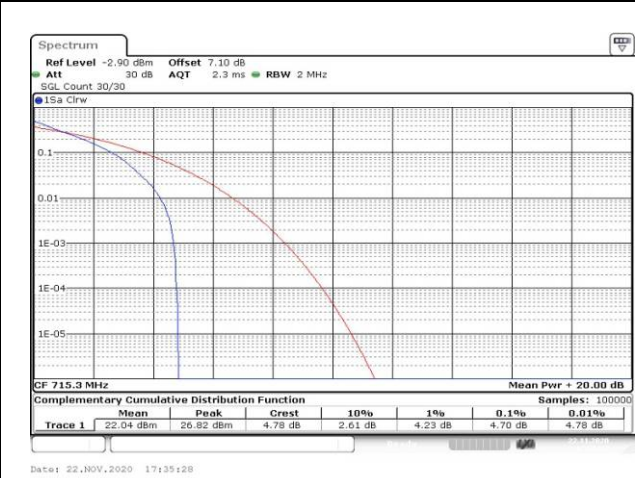


Fig.16

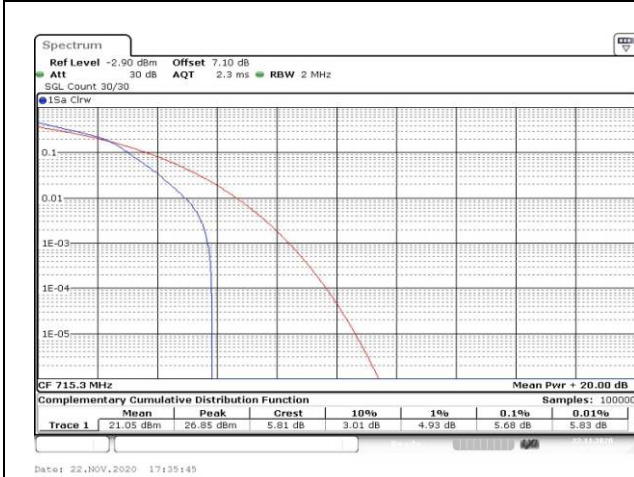


Fig.17

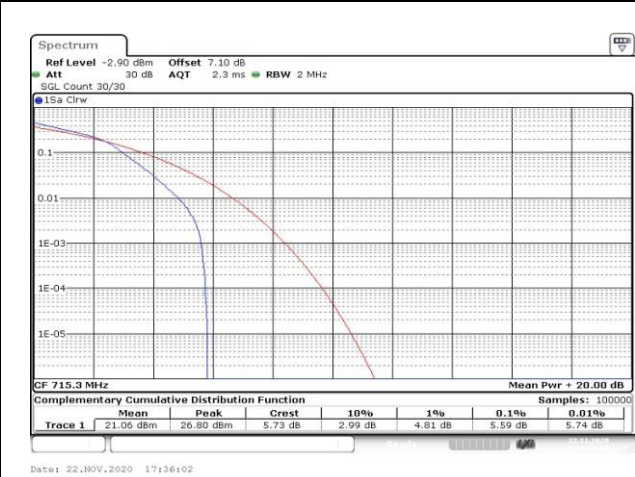


Fig.18

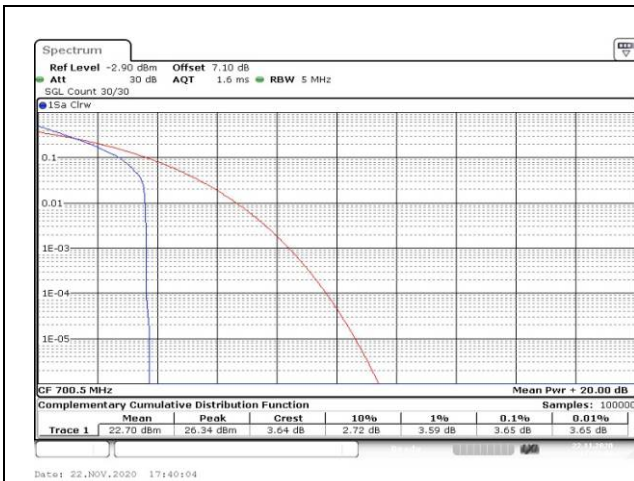


Fig.19

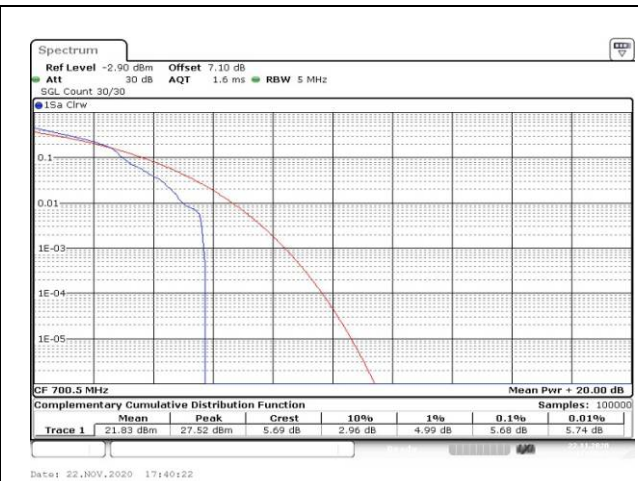


Fig.20



Fig.21

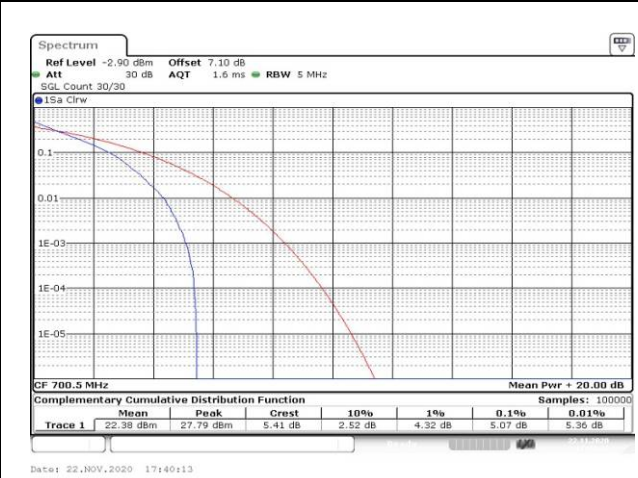


Fig.22



Fig.23

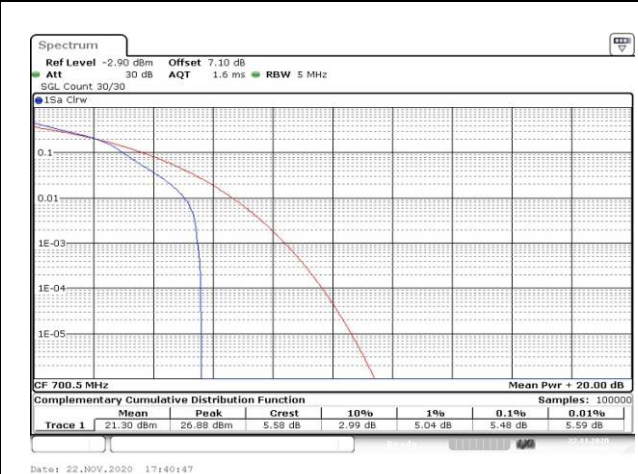


Fig.24

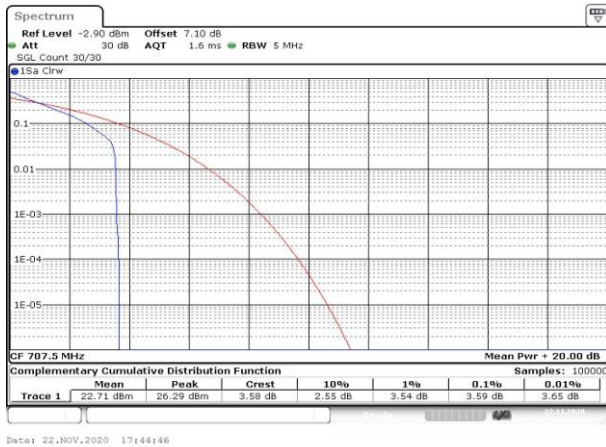


Fig.25

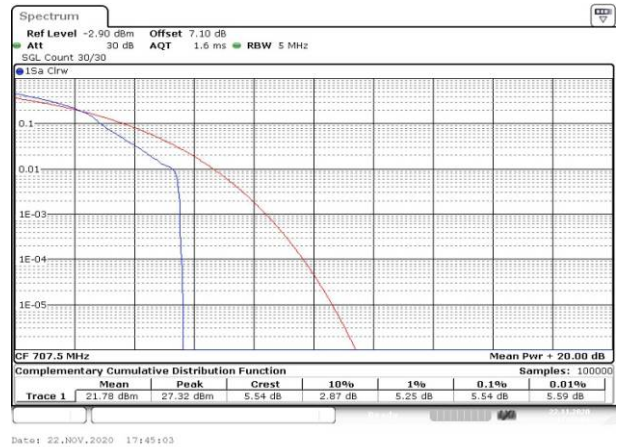


Fig.26

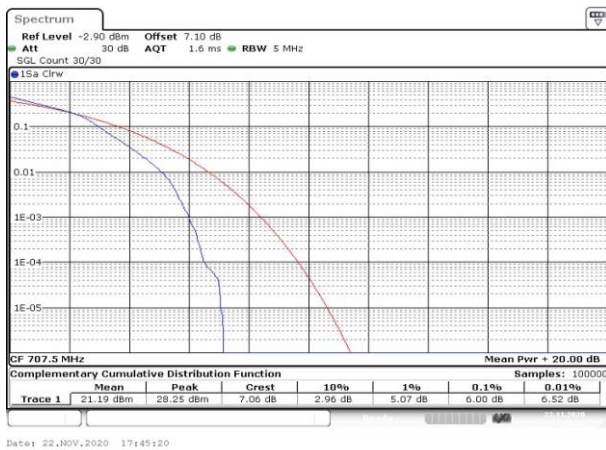


Fig.27

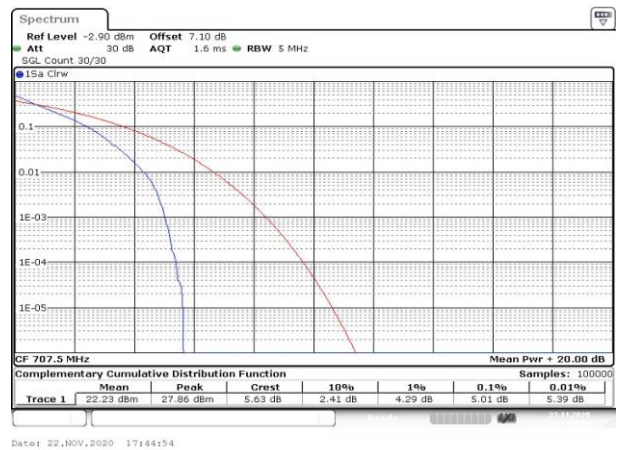


Fig.28

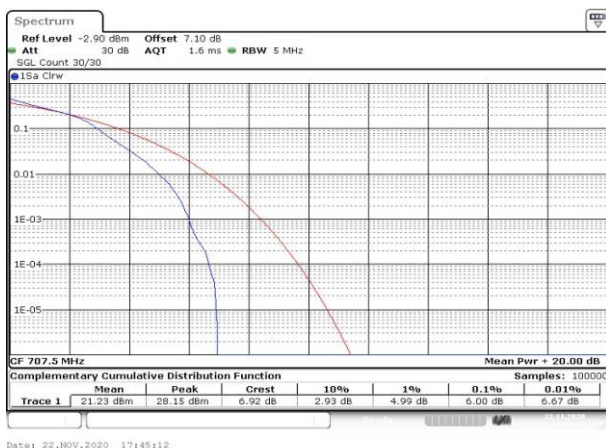


Fig.29

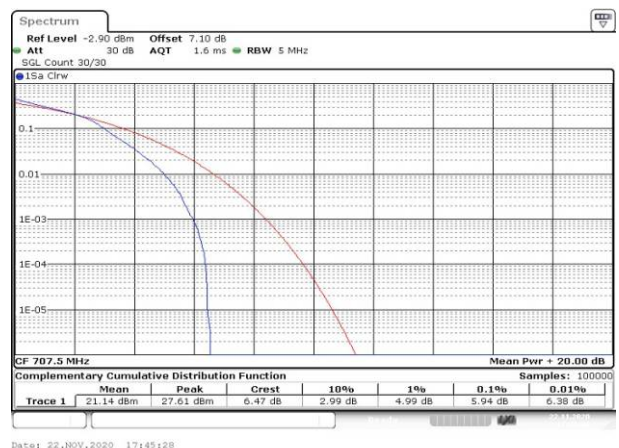


Fig.30