

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	23.56	
				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
				50	0	21.72
	707.5	23095		1	0	21.64
				1	25	21.62
				1	49	21.58
				25	0	21.58
				25	12	21.63
				25	25	21.63
				50	0	21.54
	711	23130		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

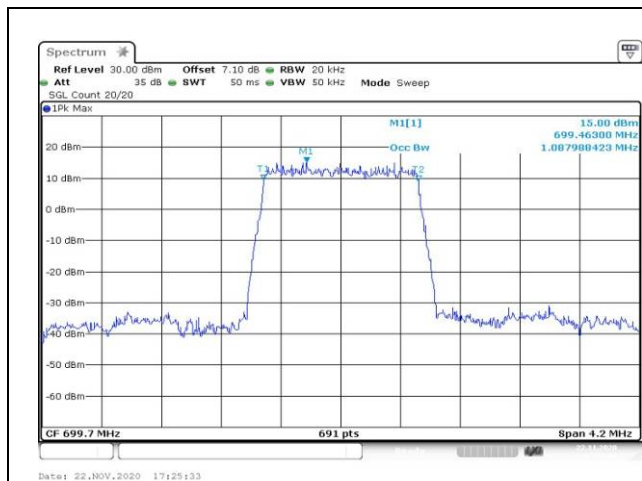


Fig.1

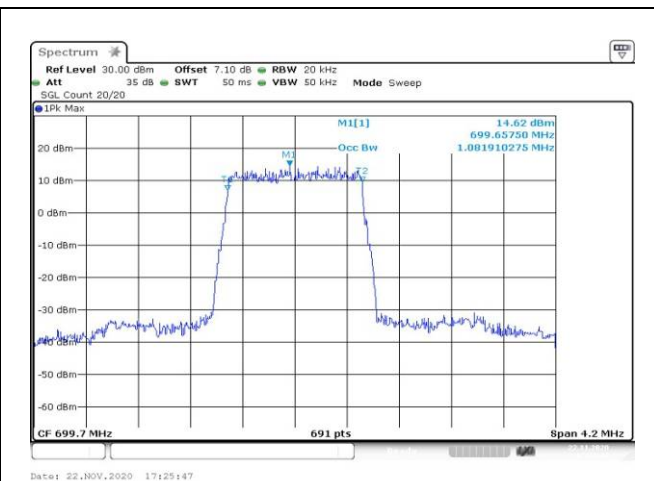


Fig.2

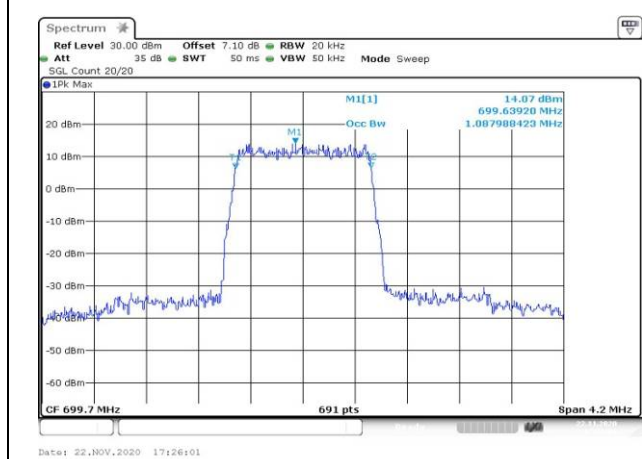


Fig.3

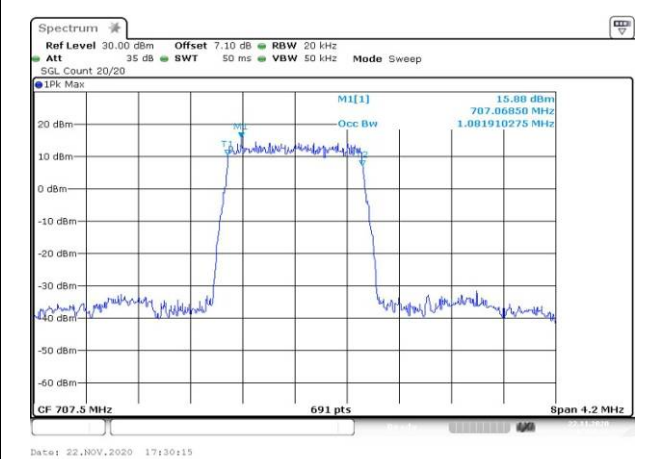


Fig.4

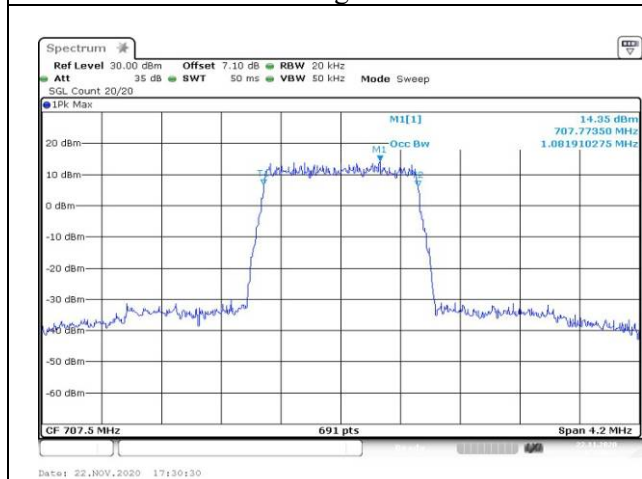


Fig.5

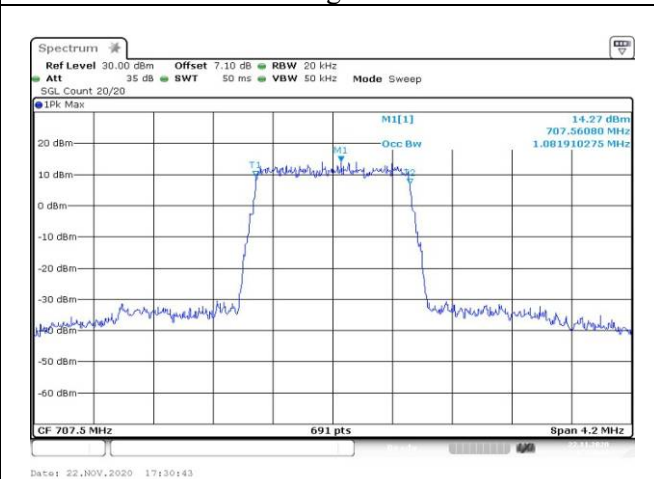
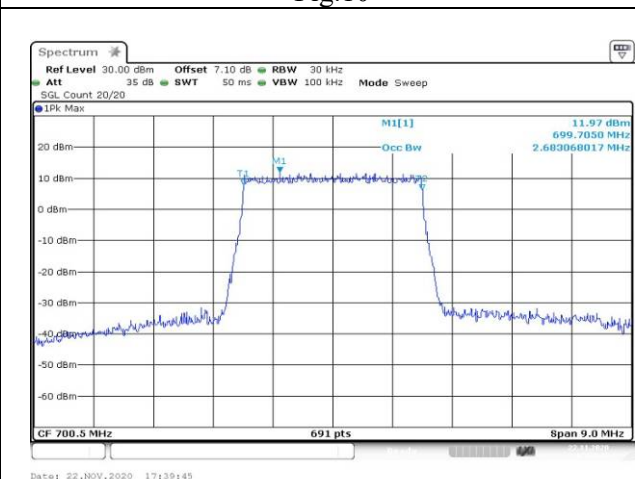
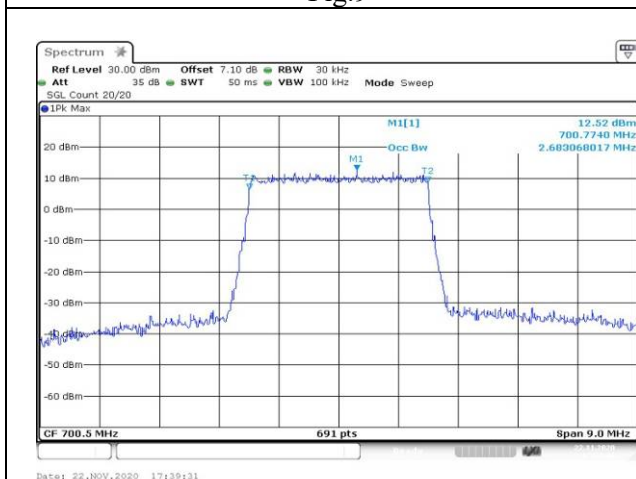
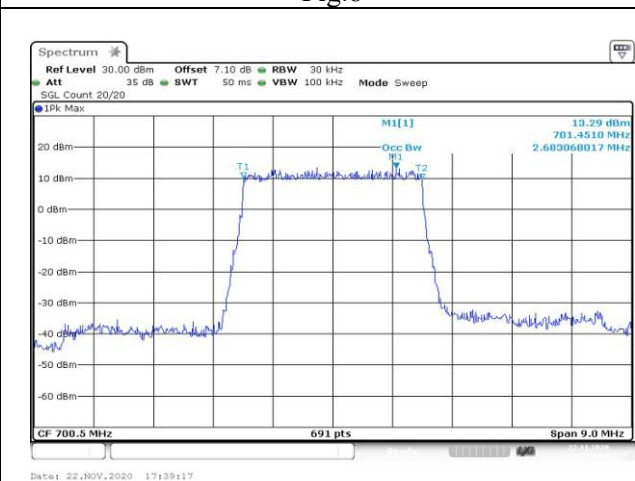
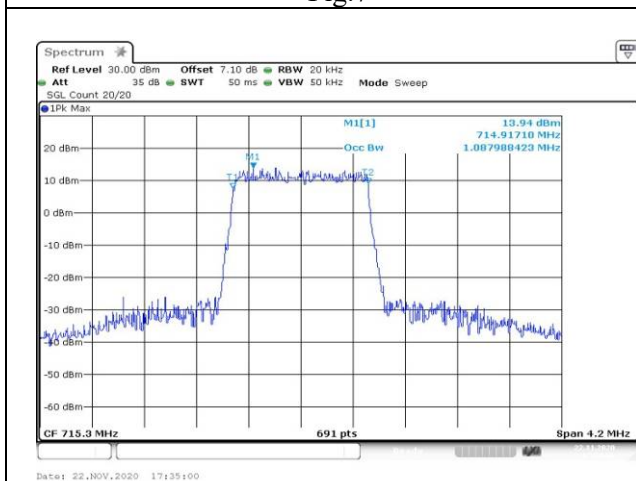
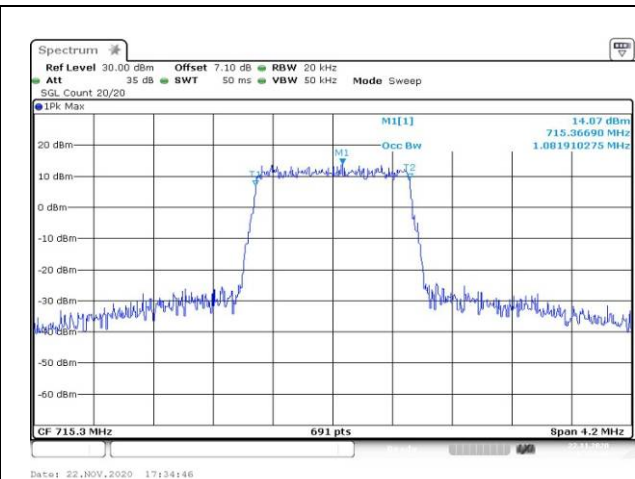
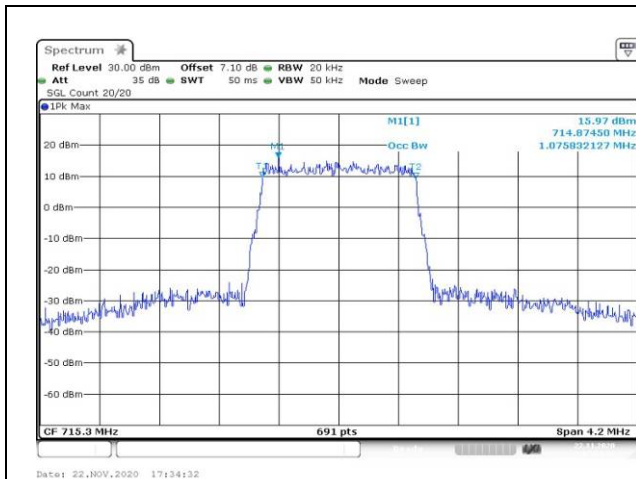


Fig.6



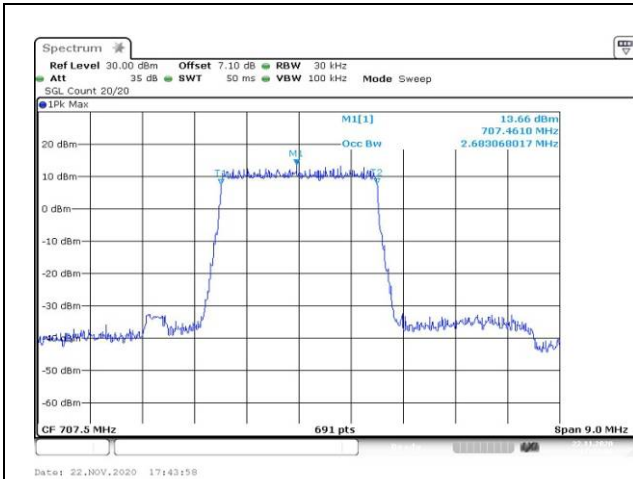


Fig.13

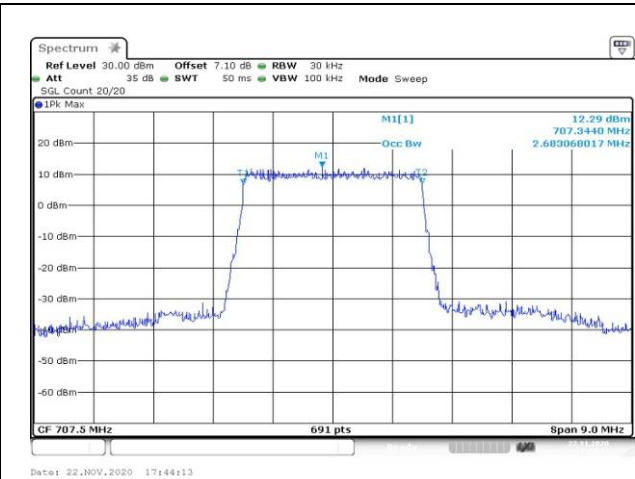


Fig.14

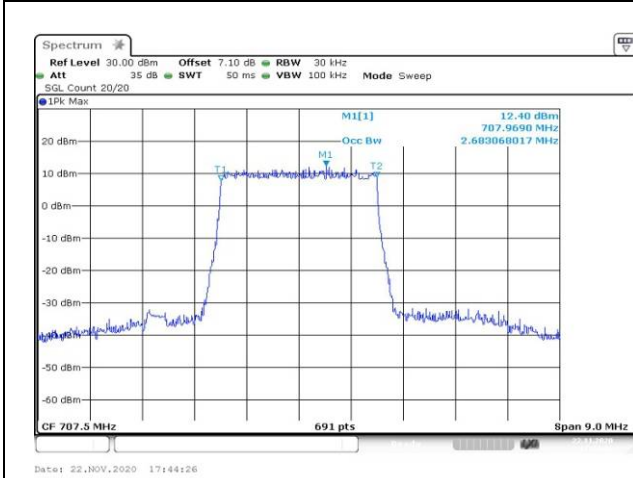


Fig.15

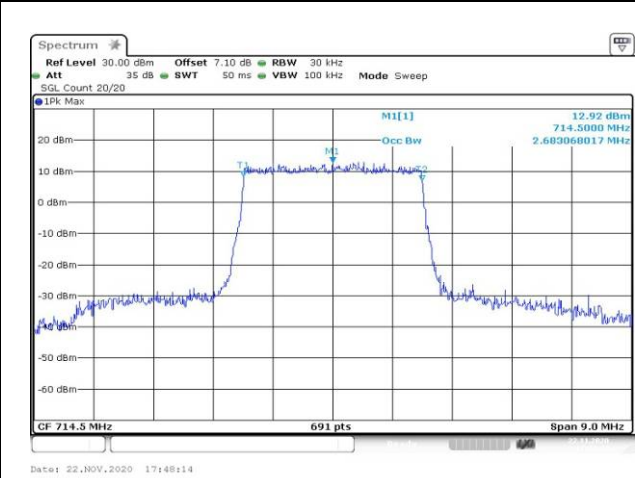


Fig.16

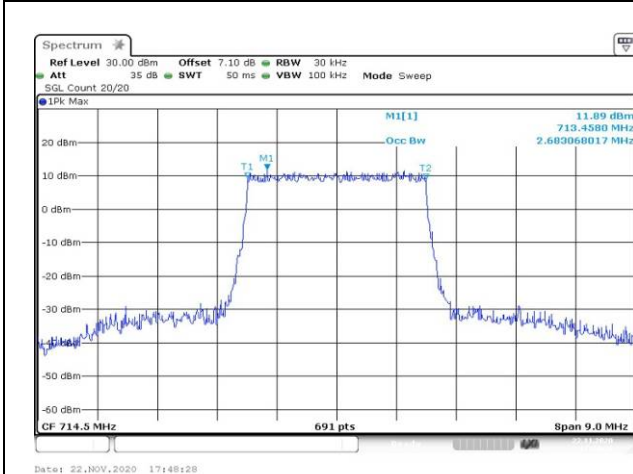


Fig.17

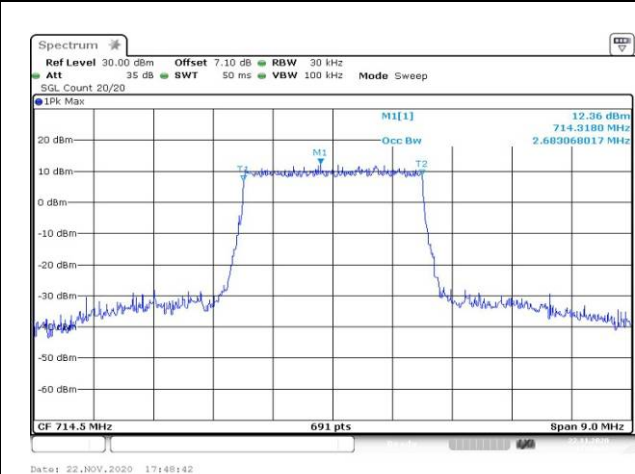


Fig.18

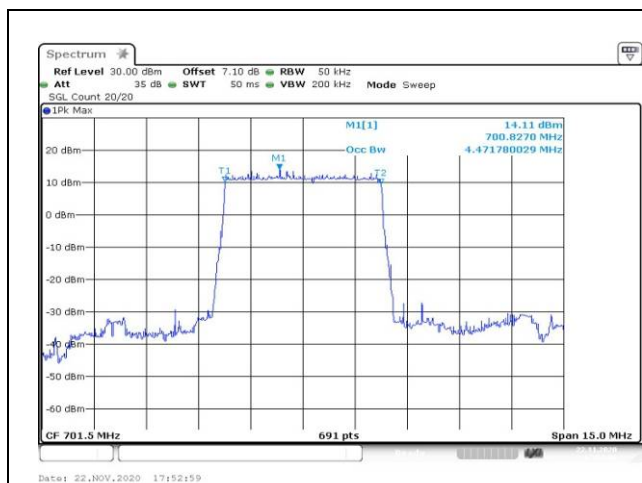


Fig.19

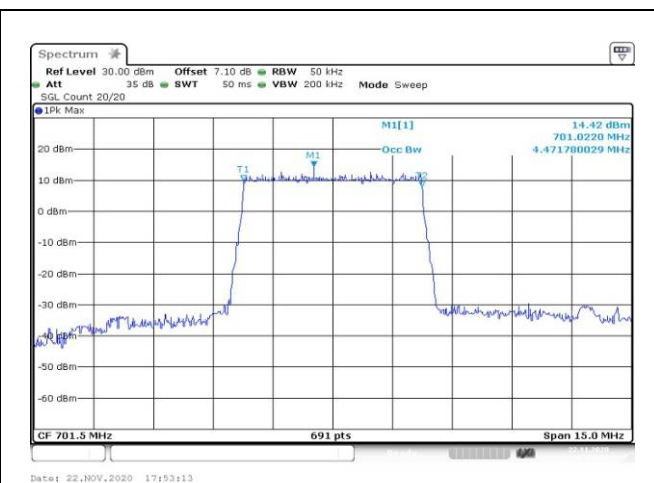


Fig.20

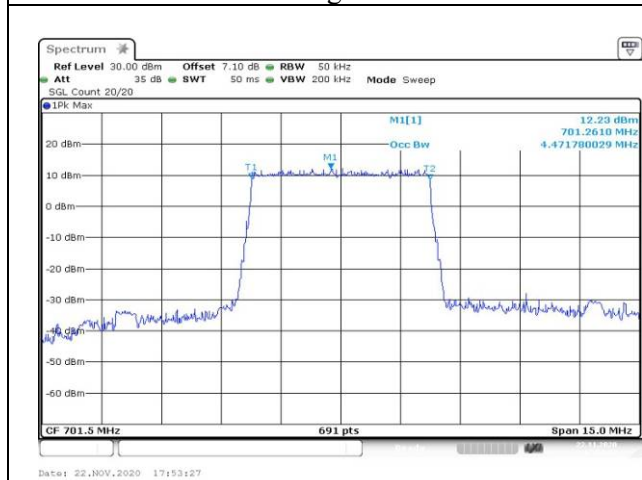


Fig.21

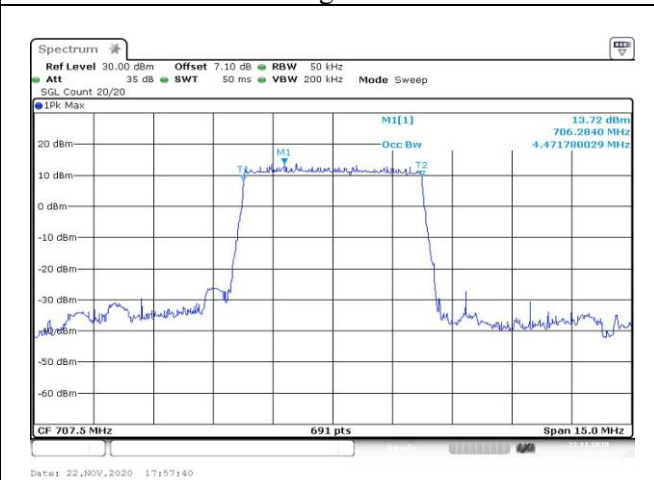


Fig.22

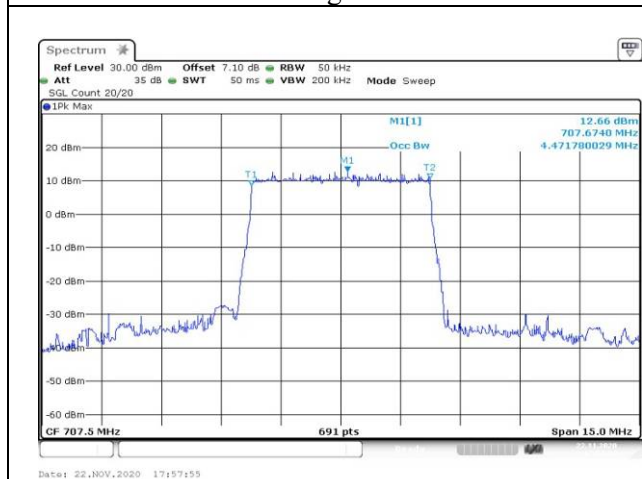


Fig.23

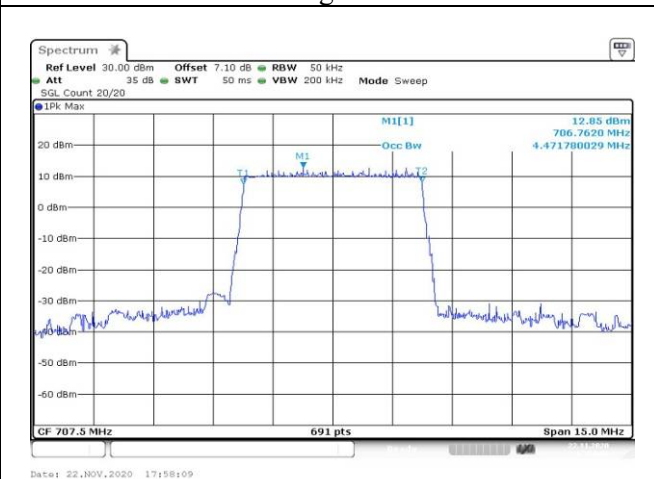
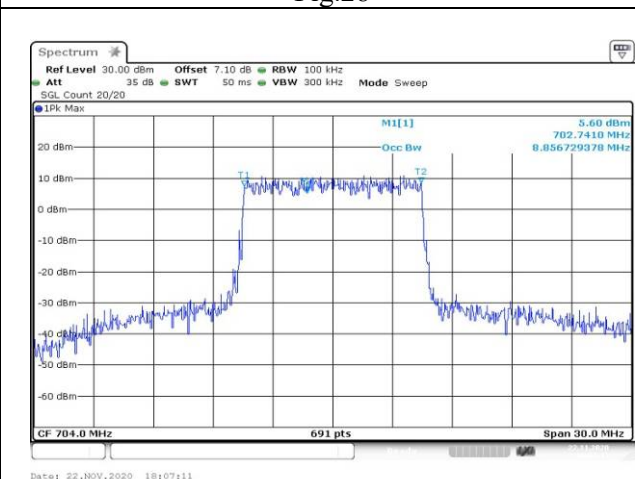
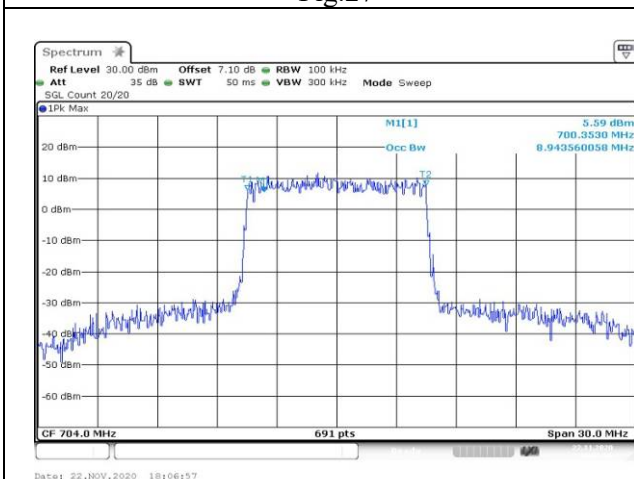
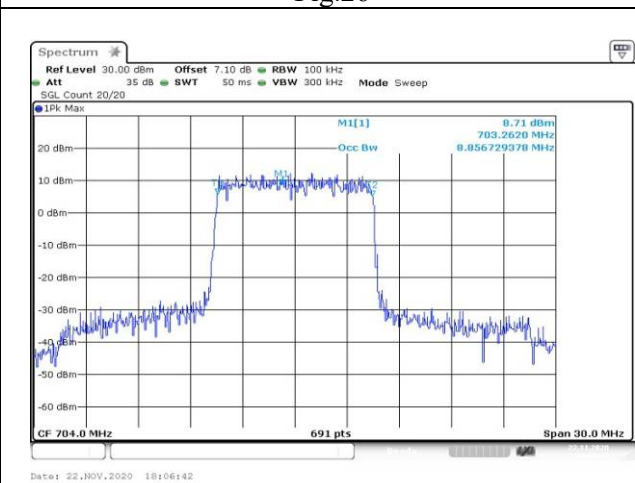
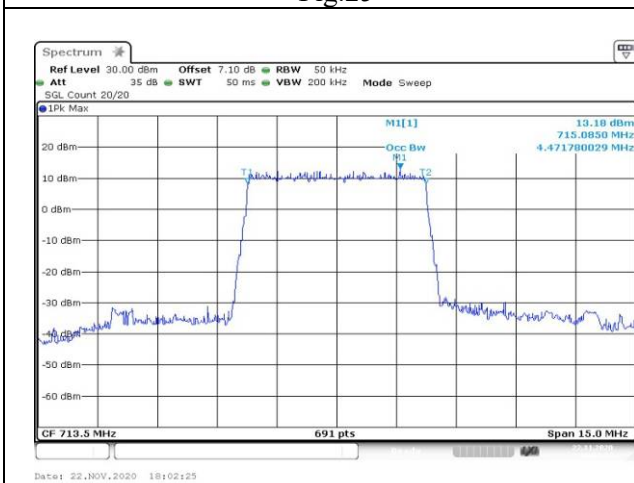
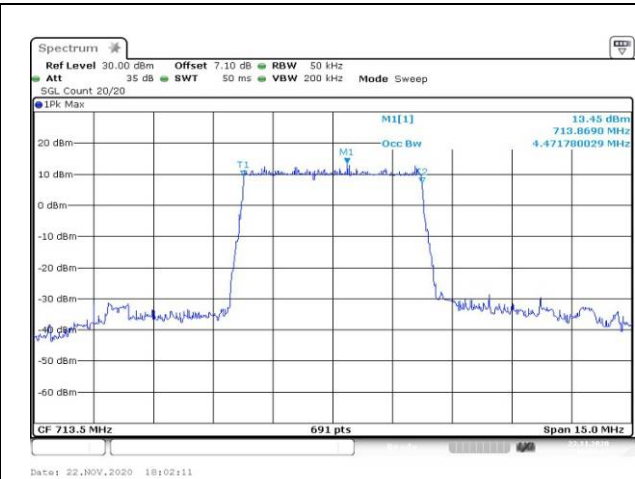
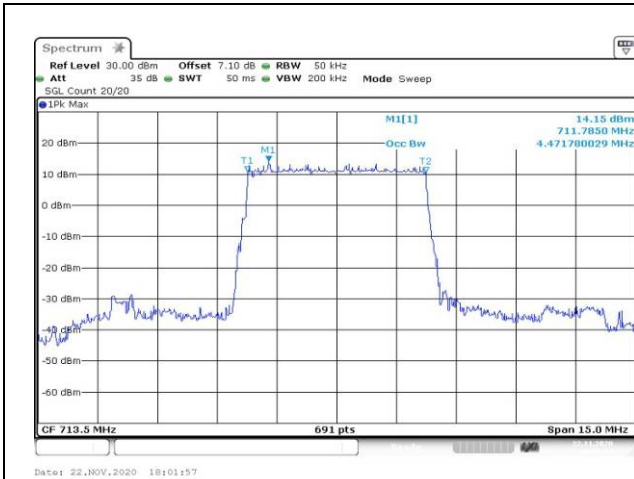


Fig.24



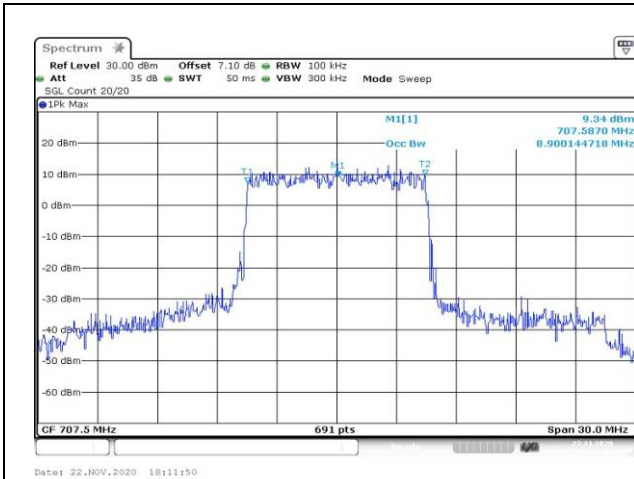


Fig.31

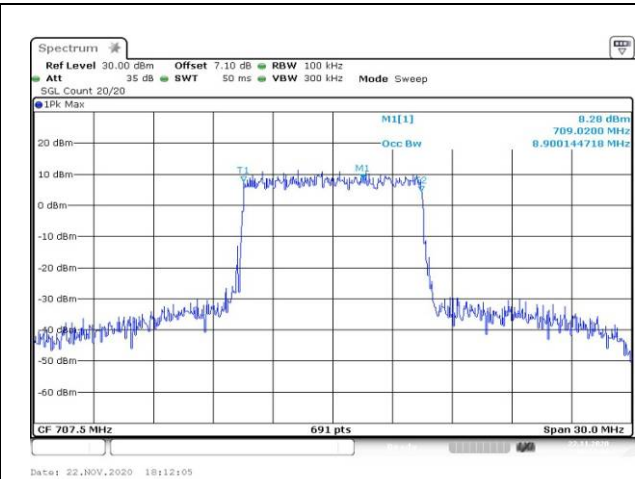


Fig.32

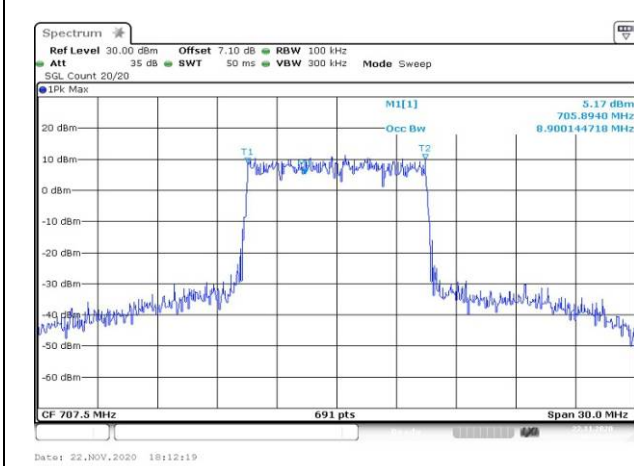


Fig.33

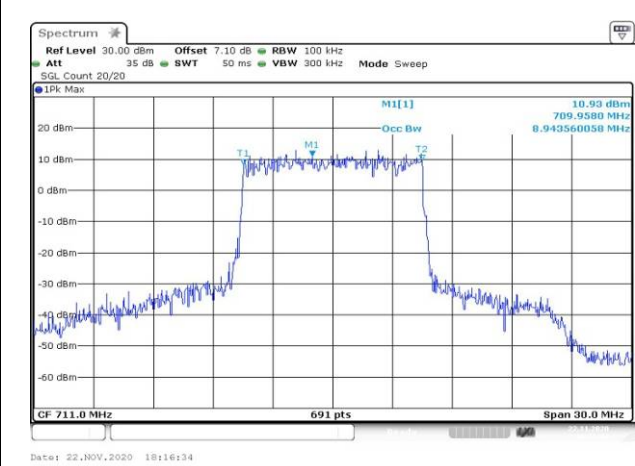


Fig.34

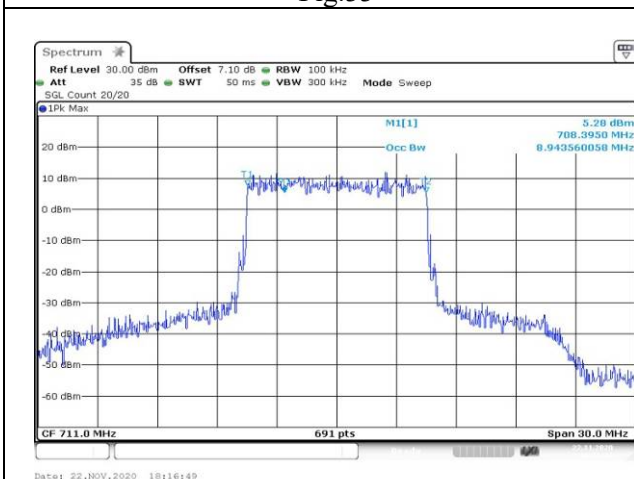


Fig.35

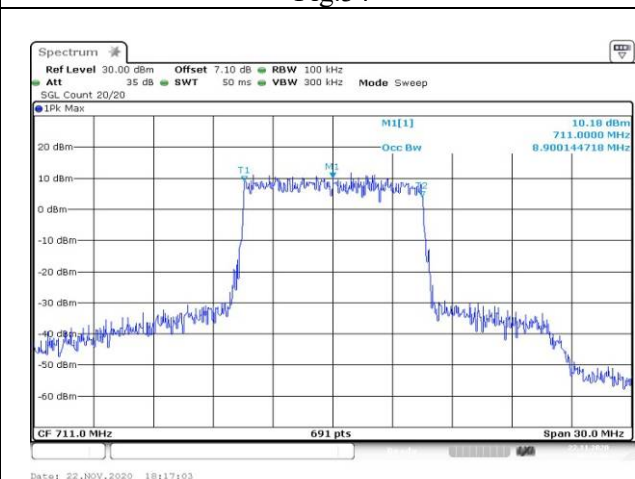


Fig.36

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

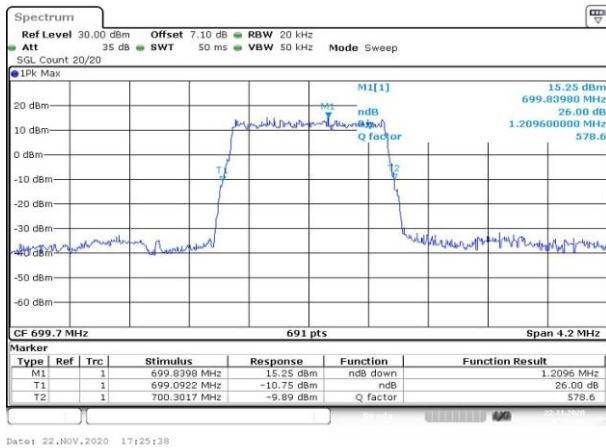


Fig.1

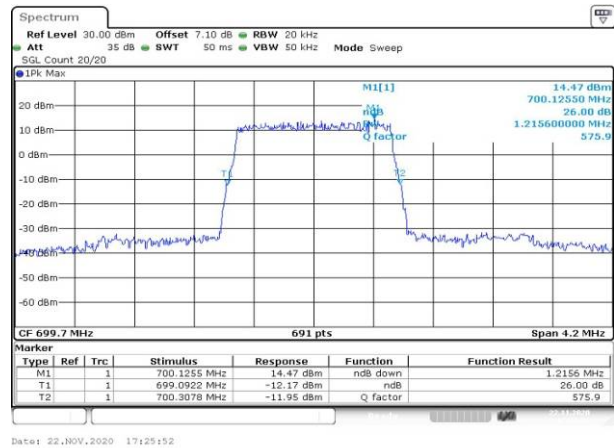


Fig.2

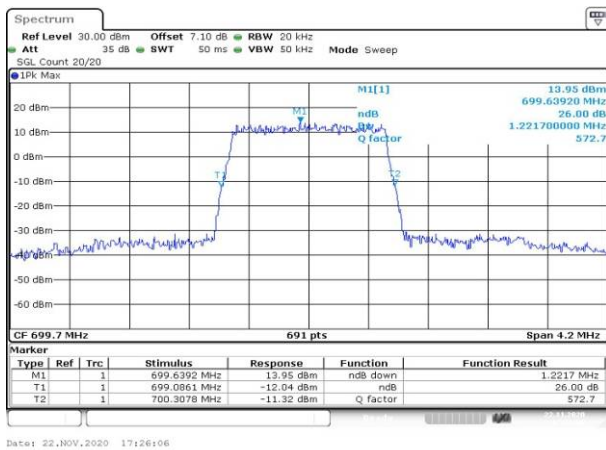


Fig.3

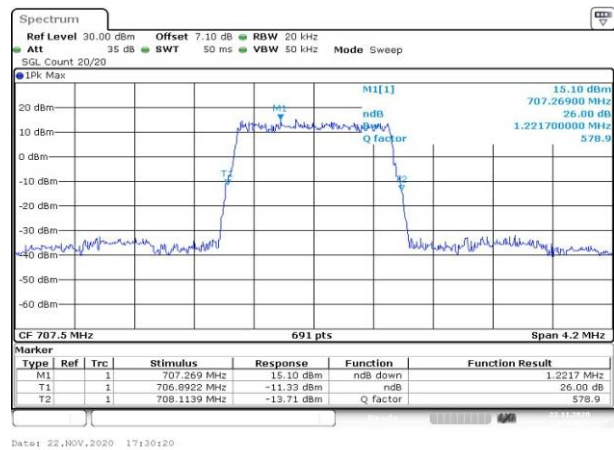


Fig.4

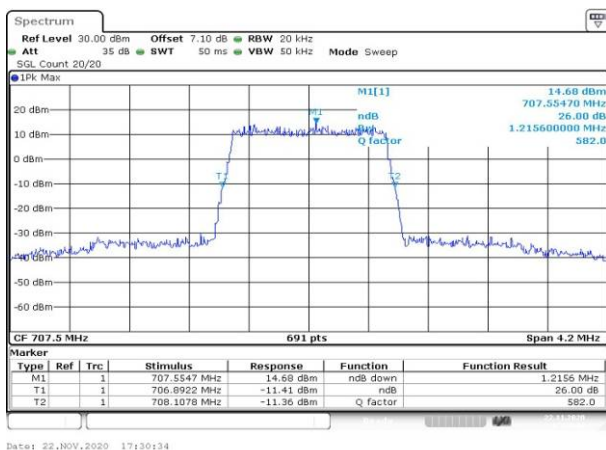


Fig.5

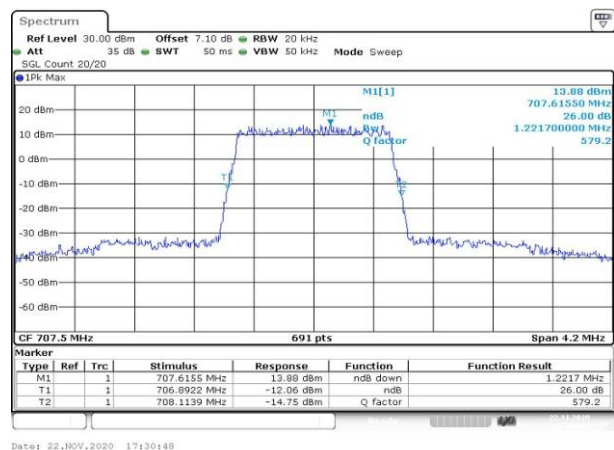


Fig.6

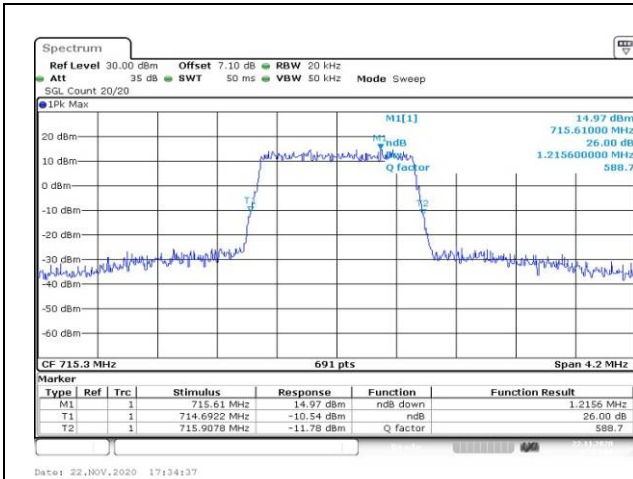


Fig.7

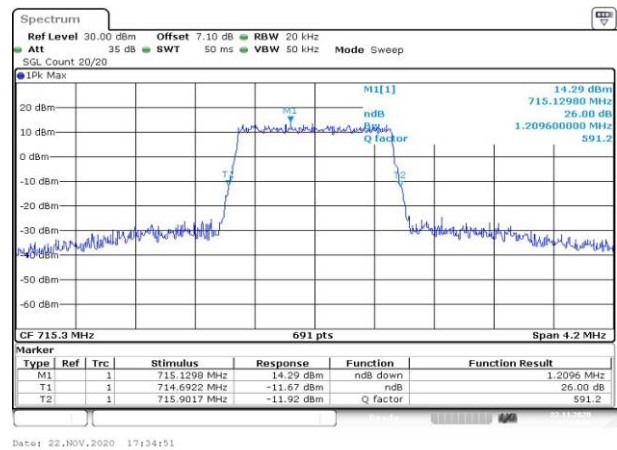


Fig.8

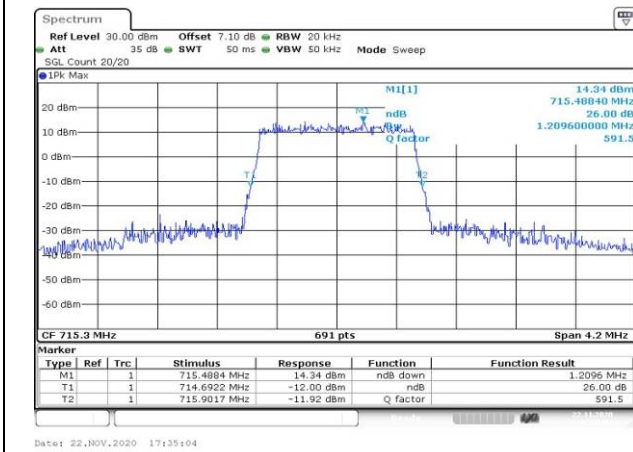


Fig.9

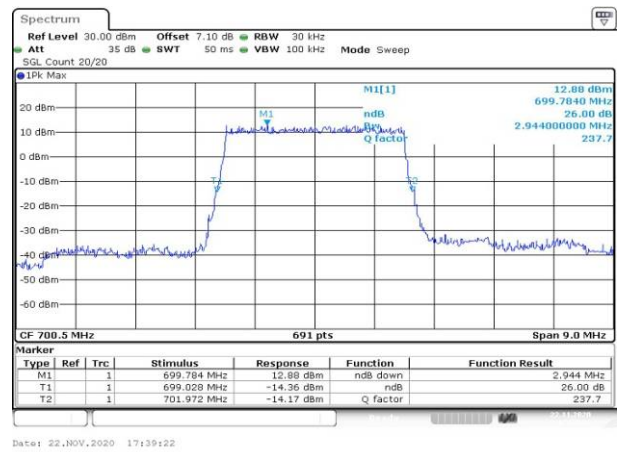


Fig.10

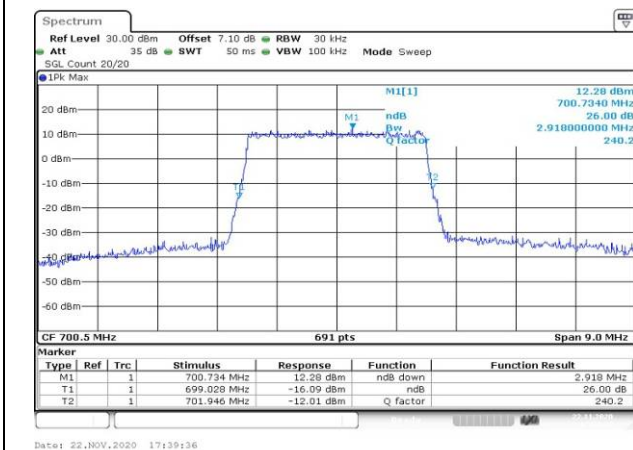


Fig.11

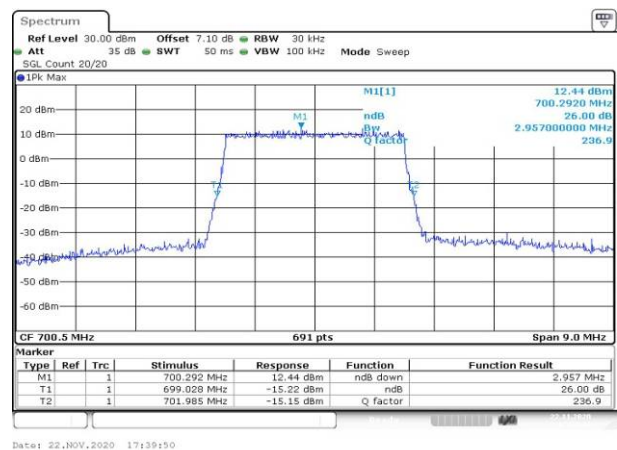


Fig.12

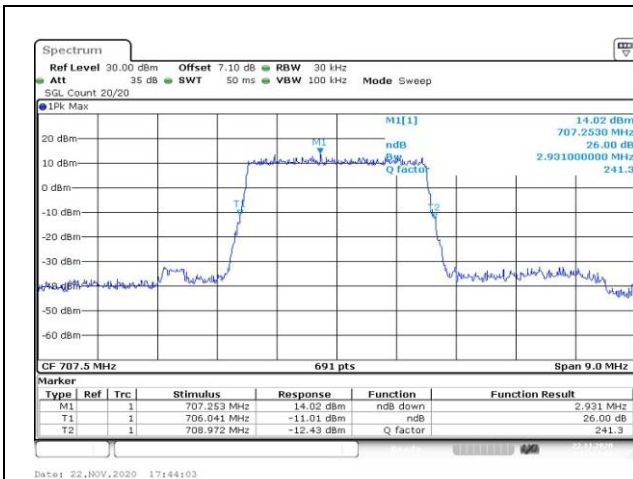


Fig.13

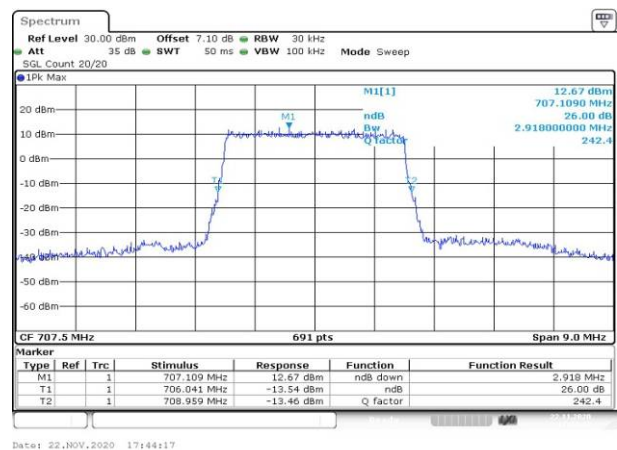


Fig.14

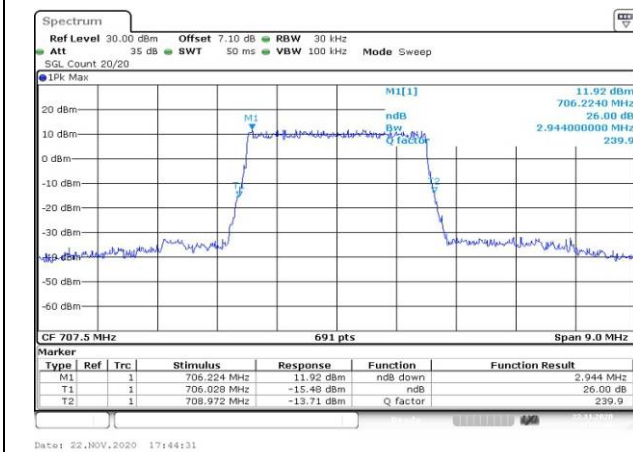


Fig.15

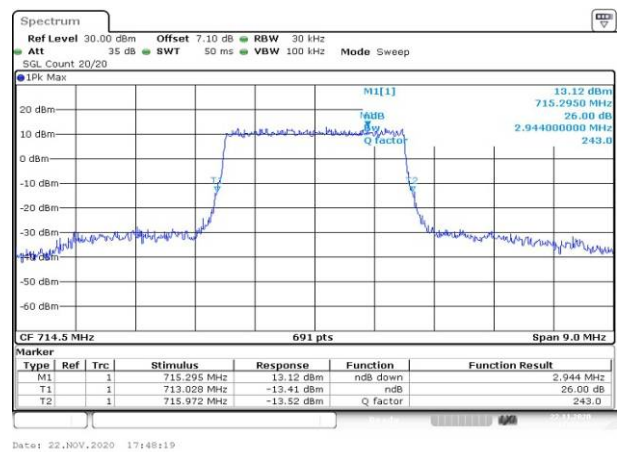


Fig.16

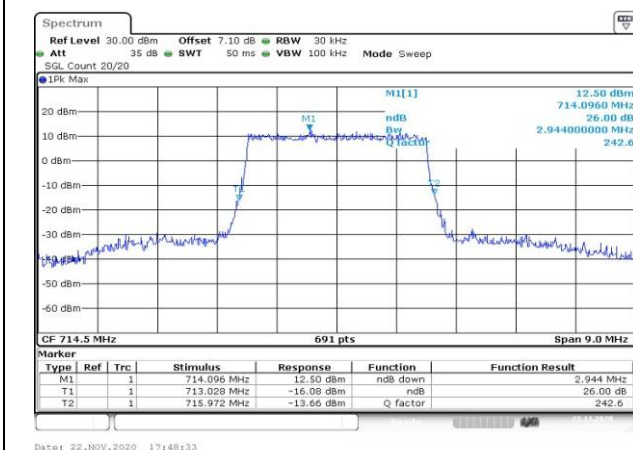


Fig.17

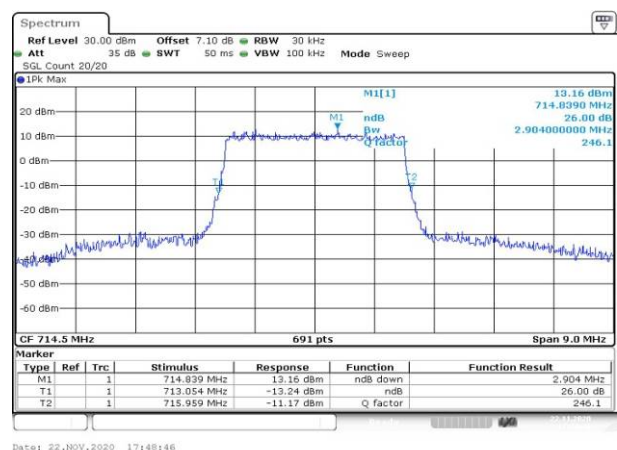


Fig.18

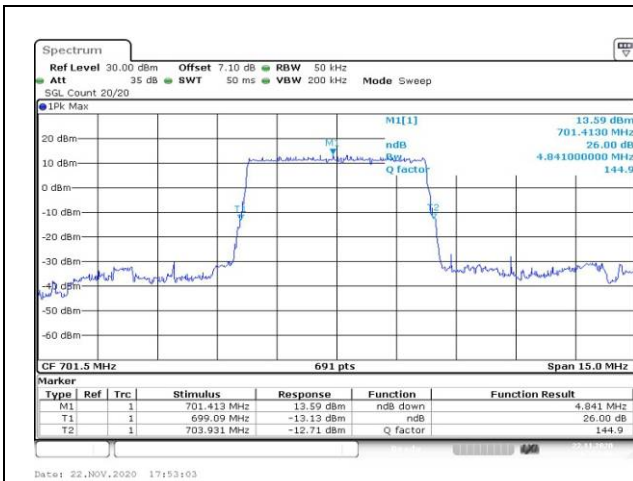


Fig.19

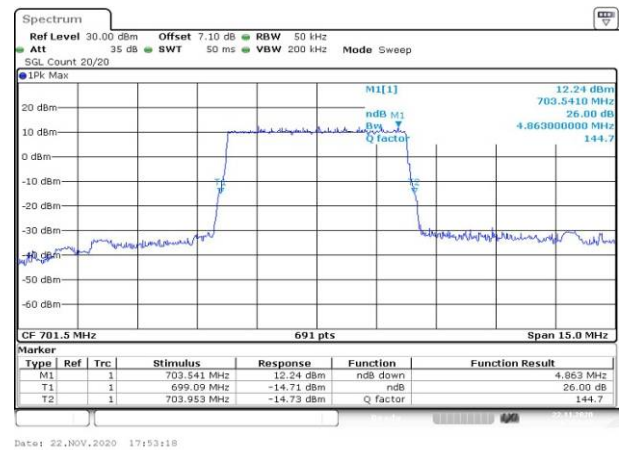


Fig.20

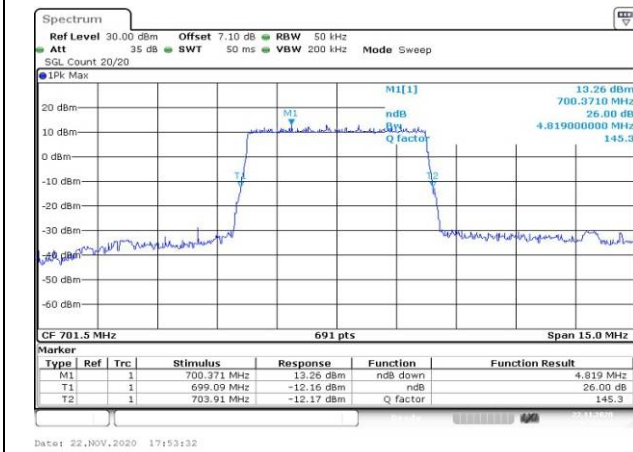


Fig.21

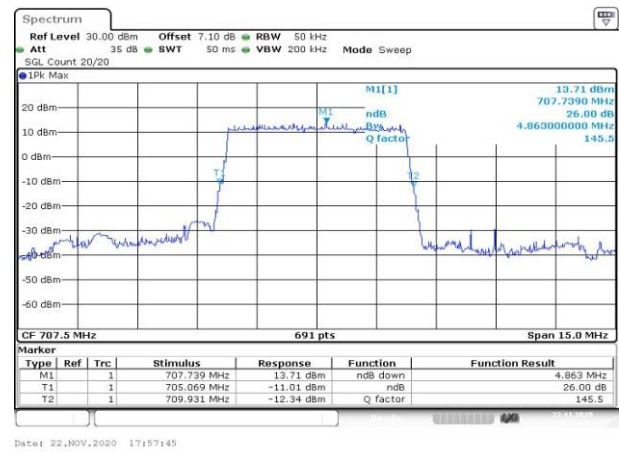


Fig.22

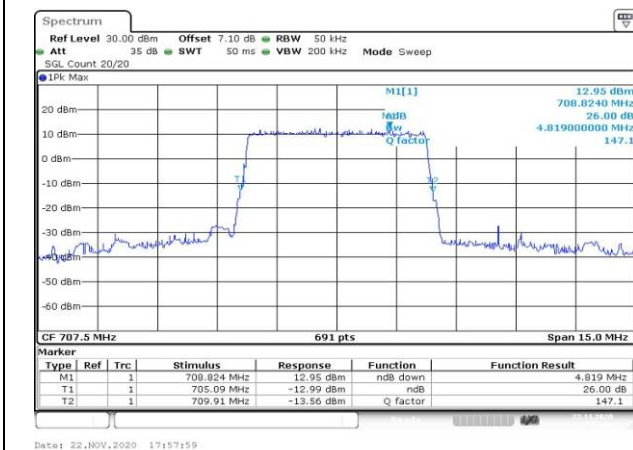


Fig.23

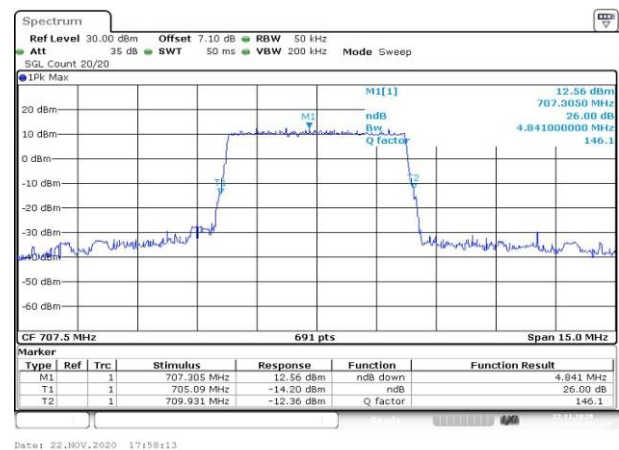


Fig.24

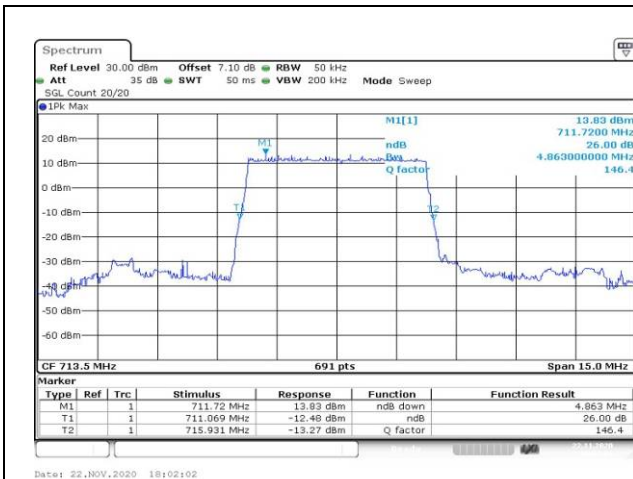


Fig.25

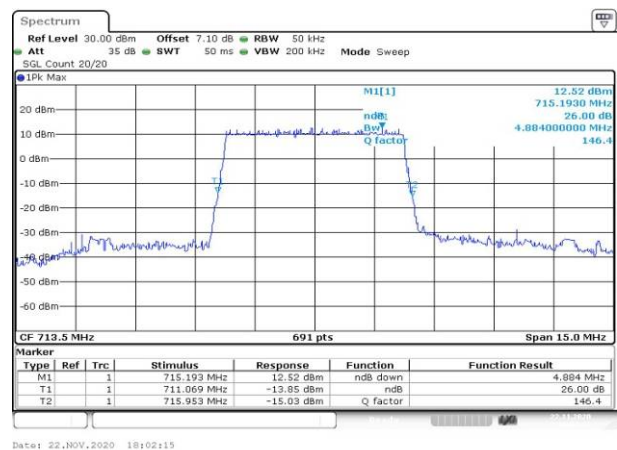


Fig.26

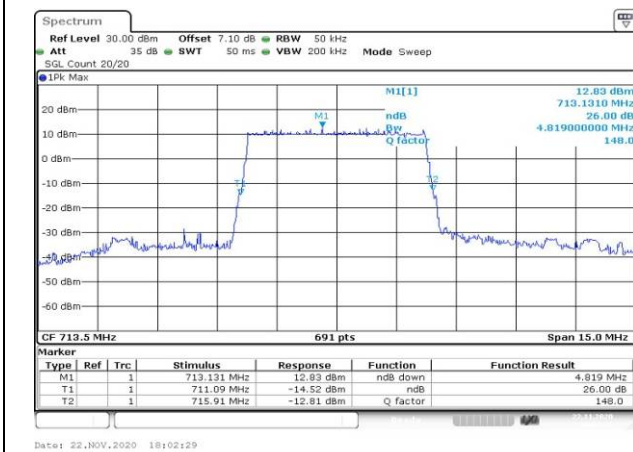


Fig.27

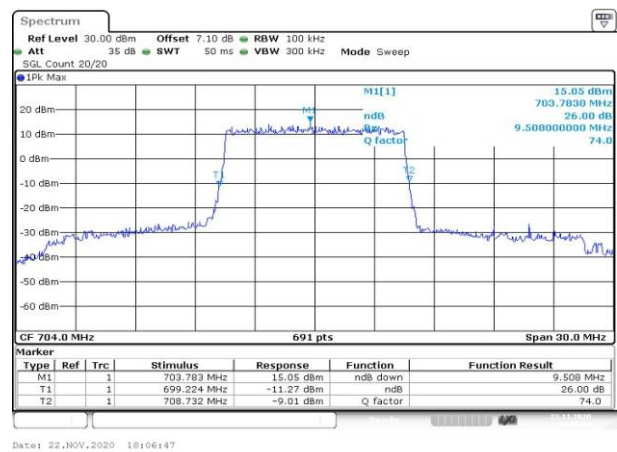


Fig.28

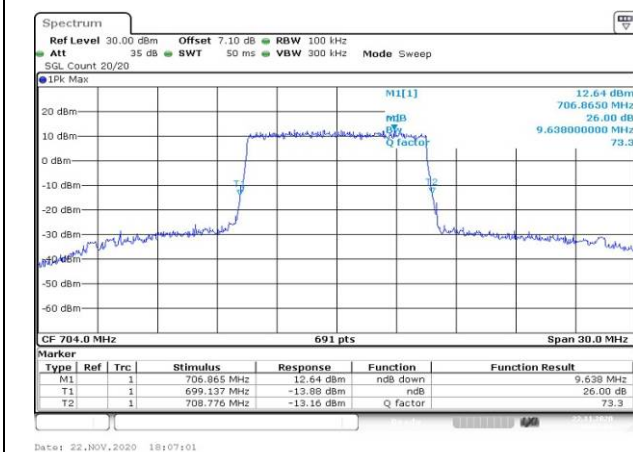


Fig.29

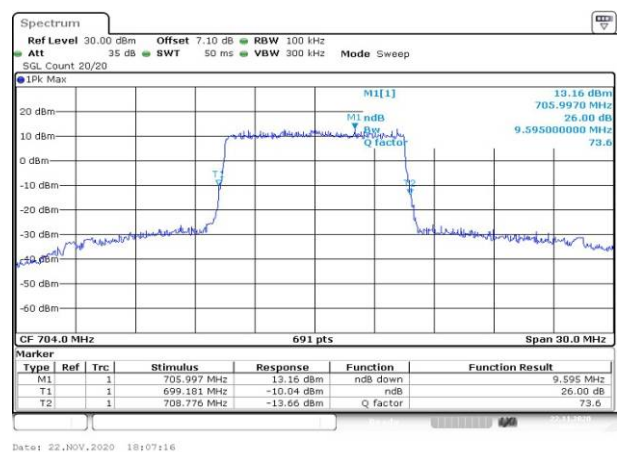


Fig.30

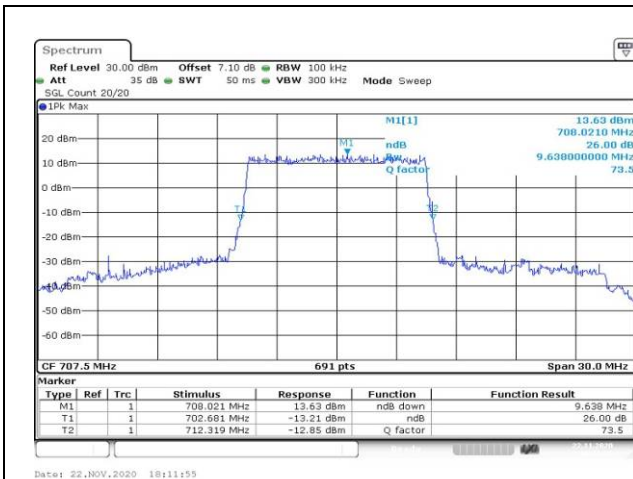


Fig.31

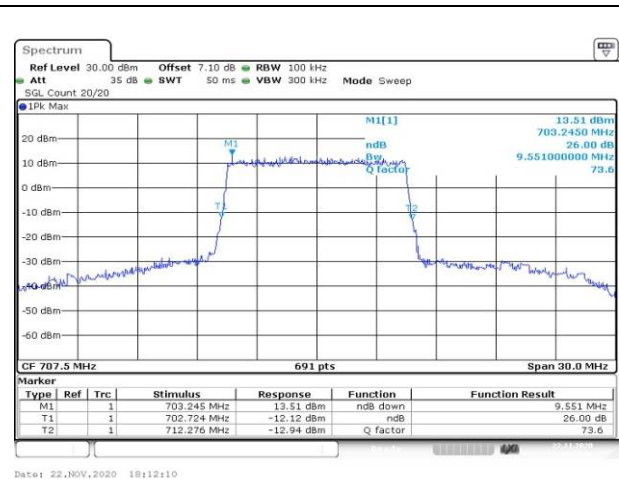


Fig.32

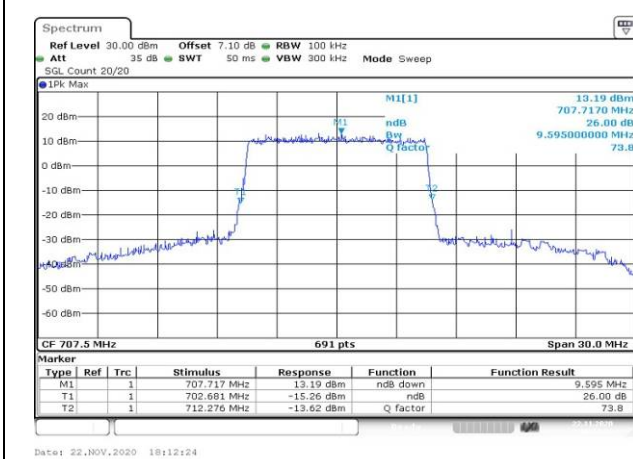


Fig.33

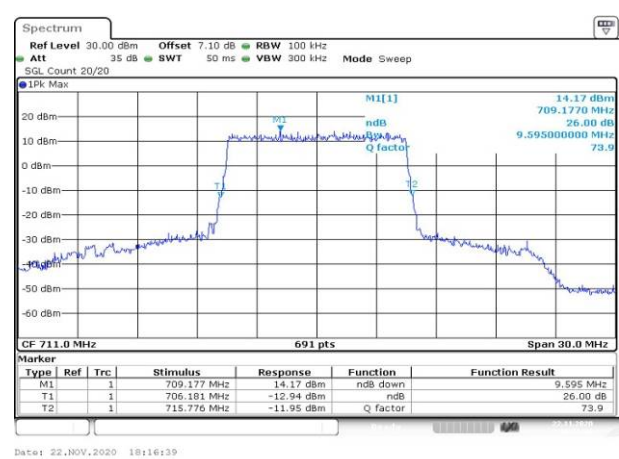


Fig.34

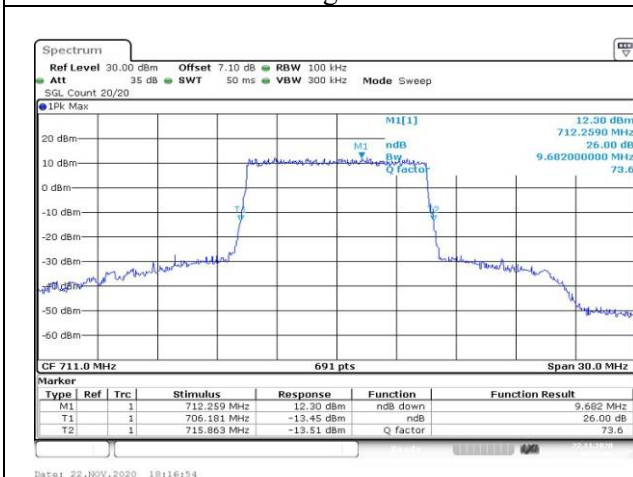


Fig.35



Fig.36

4 Peak-Average Ratio

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

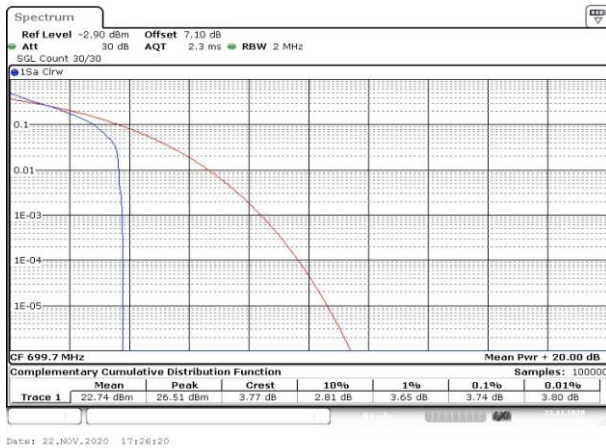


Fig.1

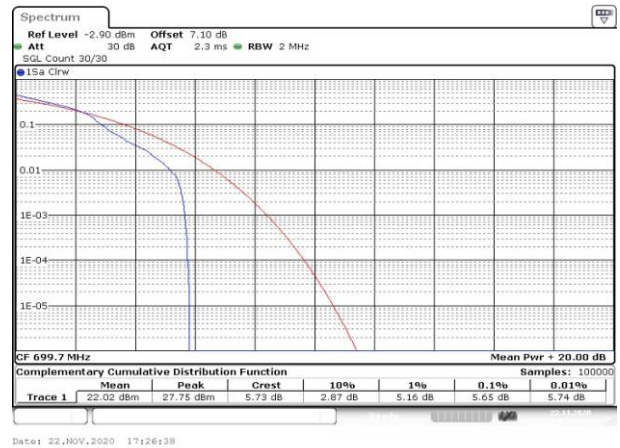


Fig.2

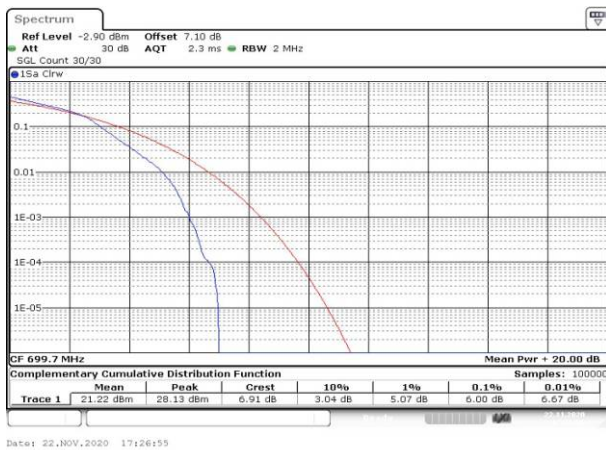


Fig.3

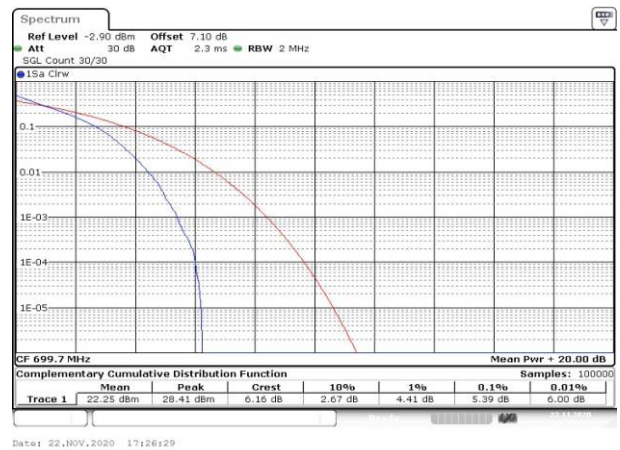


Fig.4

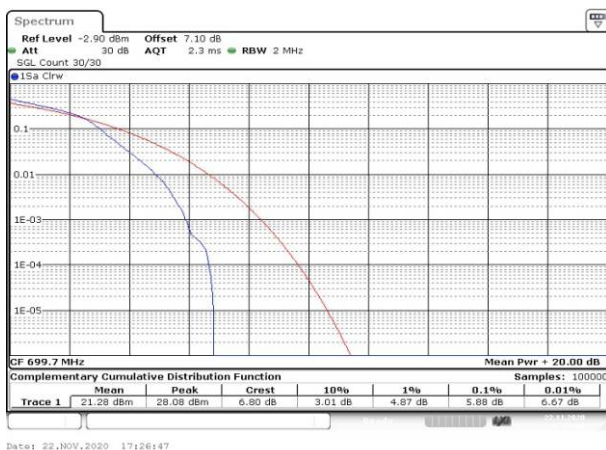


Fig.5

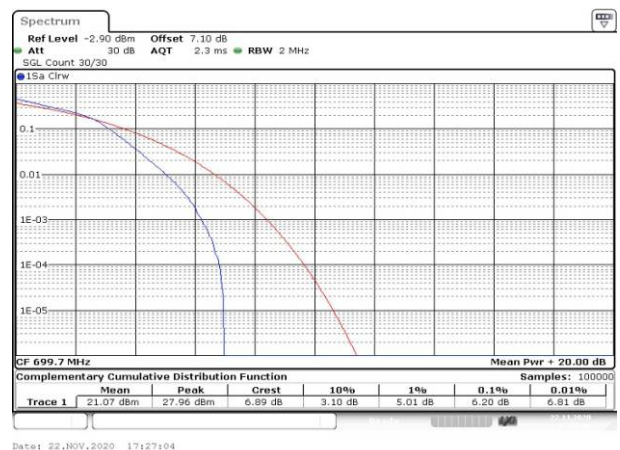


Fig.6

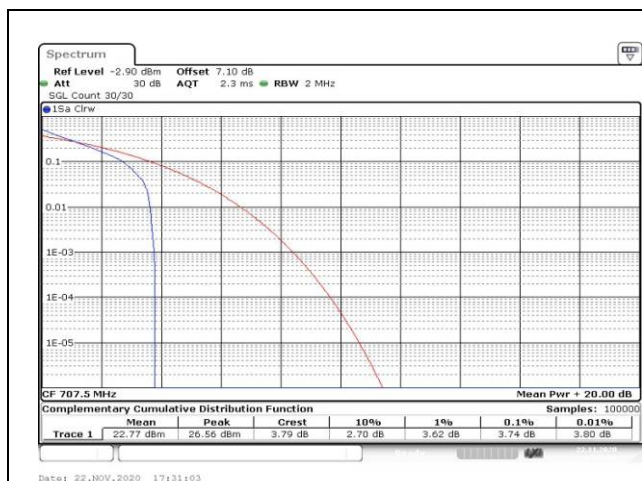


Fig.7

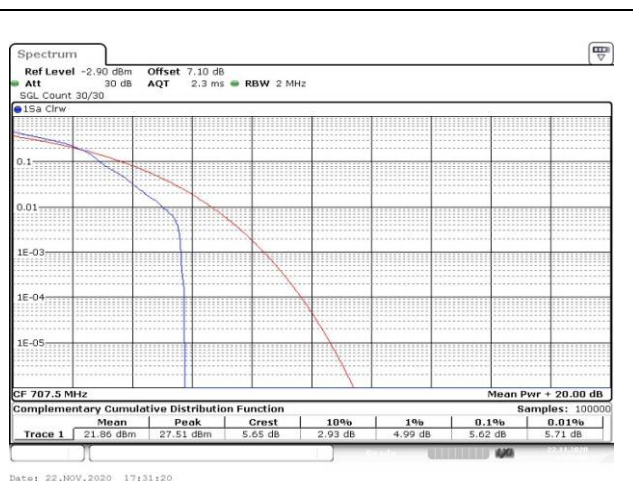


Fig.8



Fig.9

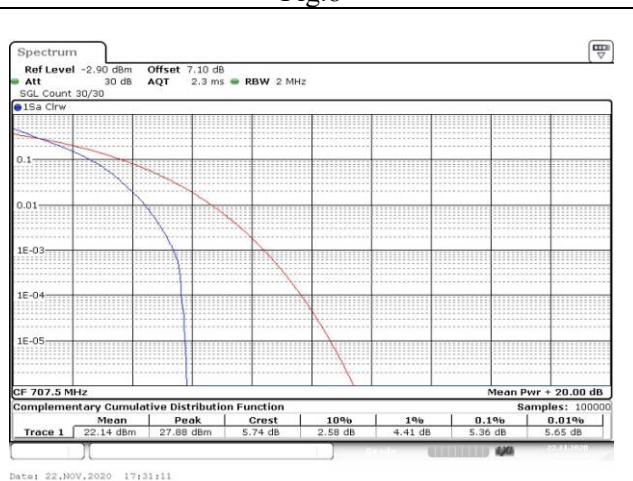


Fig.10

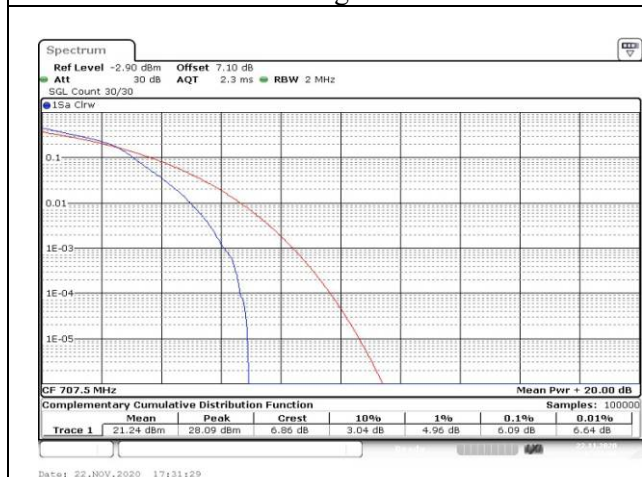


Fig.11

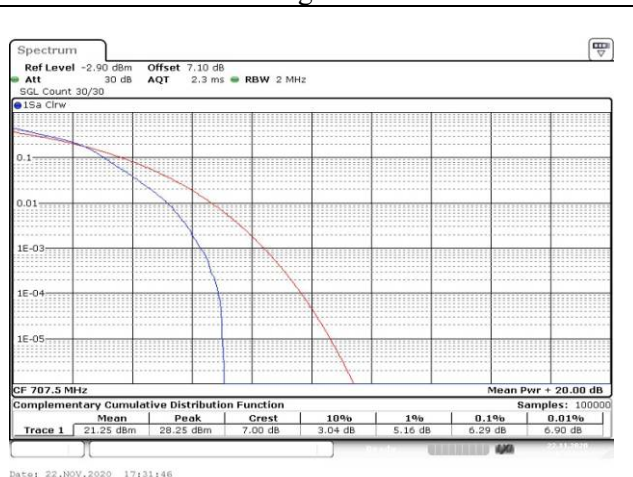


Fig.12

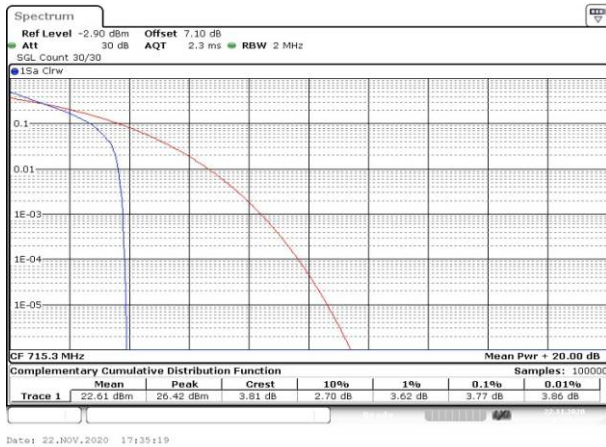


Fig.13

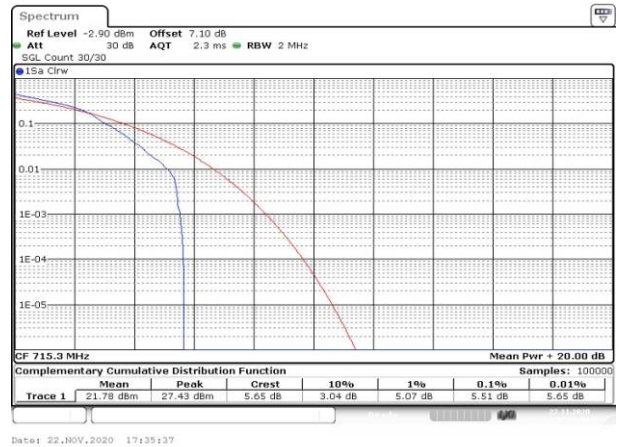


Fig.14

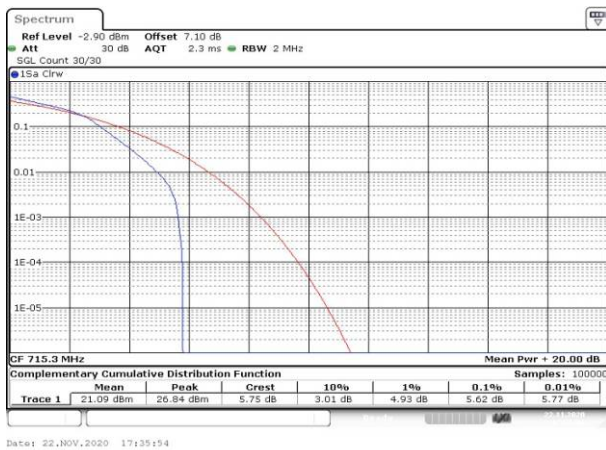


Fig.15

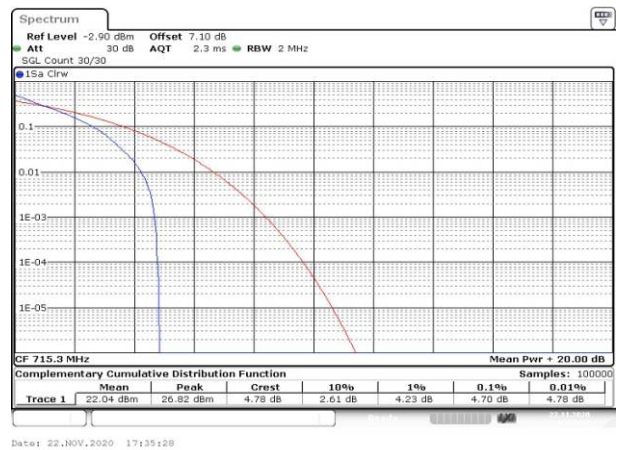


Fig.16

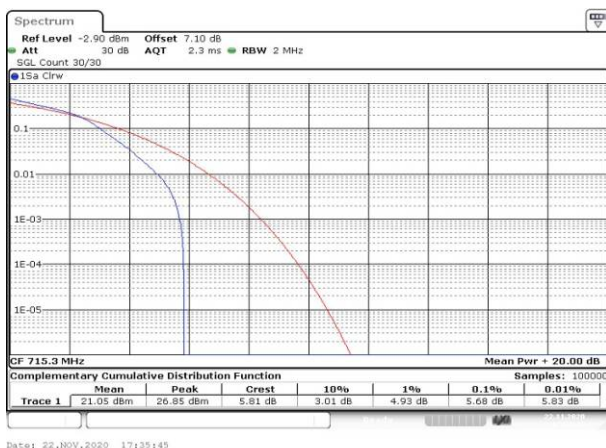


Fig.17

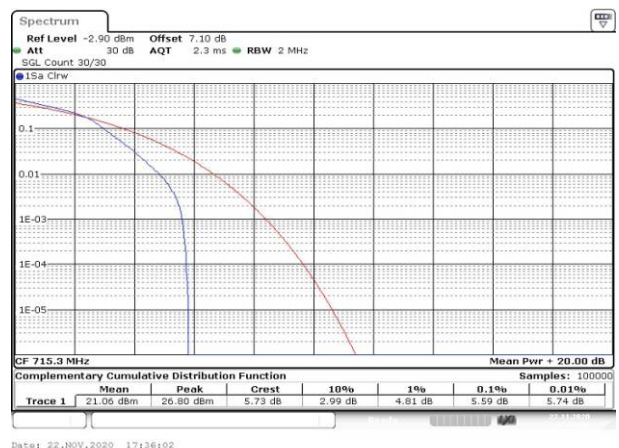


Fig.18

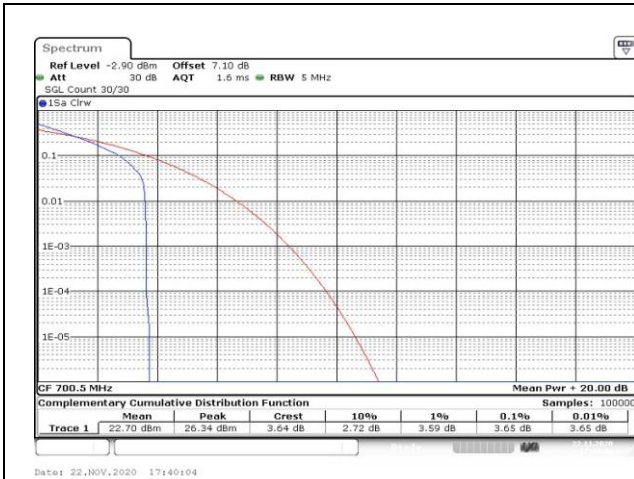


Fig.19



Fig.20



Fig.21



Fig.22



Fig.23

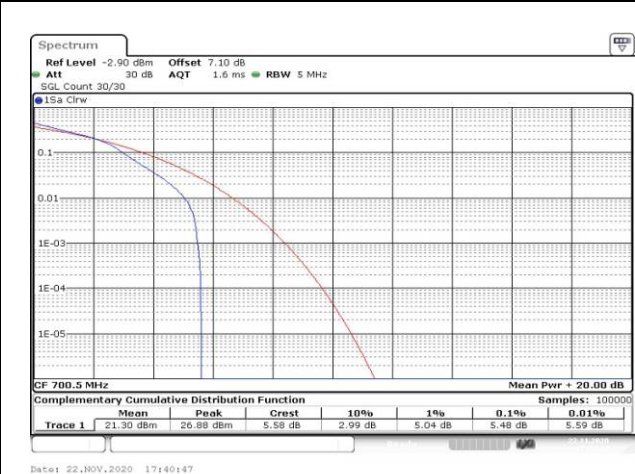


Fig.24

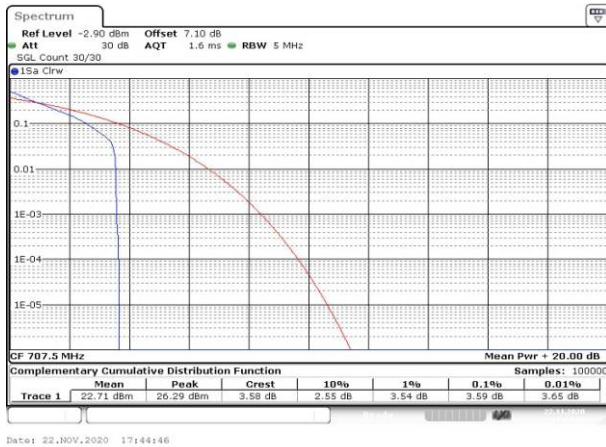


Fig.25

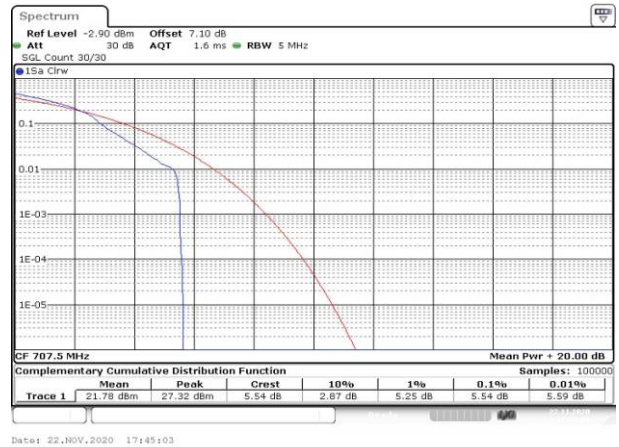


Fig.26

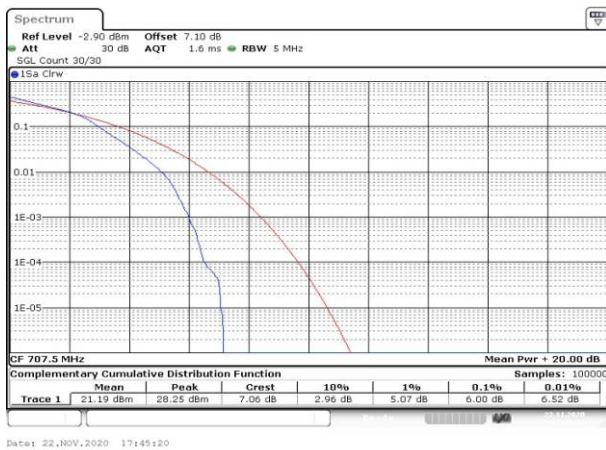


Fig.27

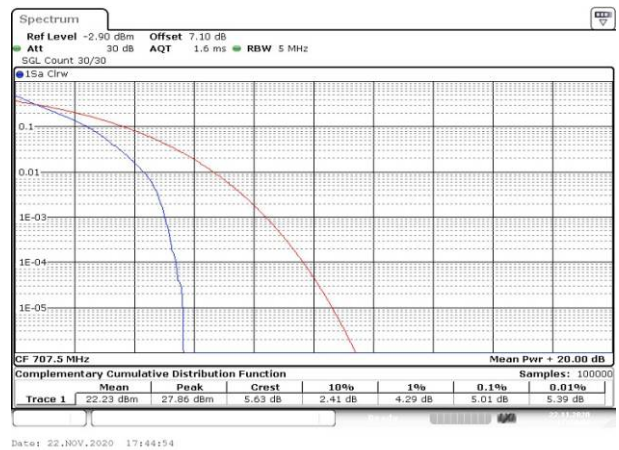


Fig.28

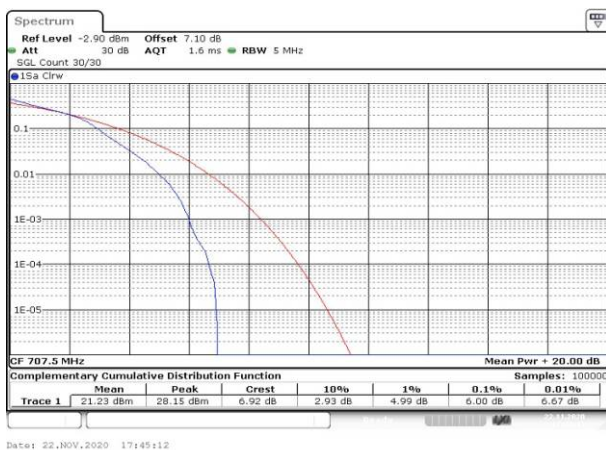


Fig.29

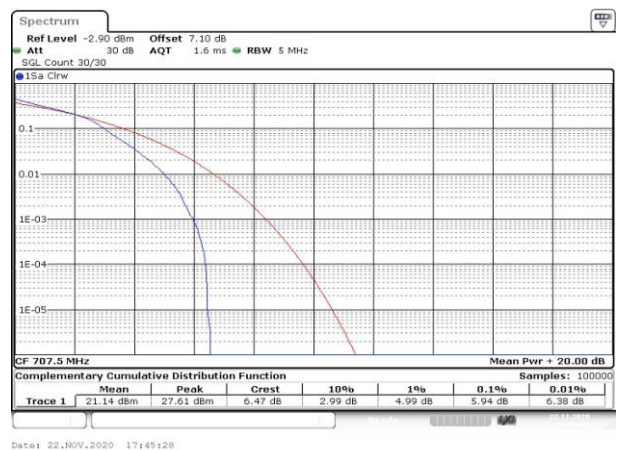


Fig.30