

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	23.77
				1	3	23.83
				1	5	23.82
				3	0	23.79
				3	1	23.89
				3	3	23.75
	1732.5	20175		6	0	22.80
				1	0	23.75
				1	3	23.70
				1	5	23.78
				3	0	23.61
				3	1	23.68
	1754.3	20393		3	3	23.72
				6	0	22.68
				1	0	24.03
1			3	23.96		
1			5	24.05		
3			0	23.83		
16QAM	1710.7	19957	3	1	23.91	
			3	3	23.90	
			6	0	22.80	
			1	0	23.64	
			1	3	23.67	
			1	5	23.65	
	1732.5	20175	3	0	22.96	
			3	1	23.03	
			3	3	23.00	
			6	0	22.09	
			1	0	23.45	
			1	3	23.52	
	1754.3	20393	1	5	23.43	
			3	0	22.95	
			3	1	22.93	
			3	3	22.93	
			6	0	21.90	
			1	0	22.81	
			1	3	23.00	
			1	5	23.00	
			3	0	22.86	
			3	1	22.85	
			3	3	22.85	
			6	0	22.14	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	22.13
				1	3	22.06
				1	5	21.97
				3	0	21.91
				3	1	21.94
				3	3	21.89
	1732.5	20175		6	0	21.82
				1	0	21.90
				1	3	21.84
				1	5	21.78
				3	0	21.85
				3	1	21.98
	1754.3	20393		3	3	21.84
				6	0	21.93
				1	0	22.01
				1	3	22.02
				1	5	22.07
				3	0	22.14
			3	1	22.10	
			3	3	22.03	
			6	0	22.12	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.45
				1	8	23.45
				1	14	23.43
				8	0	22.56
				8	4	22.53
				8	7	22.53
	15	0		22.49		
	1732.5	20175		1	0	23.51
				1	8	23.52
				1	14	23.50
				8	0	22.36
				8	4	22.34
				8	7	22.33
	15	0		22.37		
	1753.5	20385		1	0	23.79
1			8	23.85		
1			14	23.83		
8			0	22.60		
8			4	22.63		
8			7	22.62		
16QAM	1711.5	19965	15	0	22.67	
			1	0	22.84	
			1	8	22.84	
			1	14	22.97	
			8	0	21.99	
			8	4	21.92	
	8	7	21.92			
	15	0	21.70			
	1732.5	20175	1	0	22.60	
			1	8	22.69	
			1	14	22.64	
			8	0	21.64	
			8	4	21.61	
			8	7	21.62	
	15	0	21.54			
1753.5	20385	1	0	22.49		
		1	8	22.44		
		1	14	22.44		
		8	0	21.92		
		8	4	21.98		
		8	7	21.98		
15	0	21.78				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.76
				1	8	21.71
				1	14	21.69
				8	0	21.73
				8	4	21.78
				8	7	21.75
	15	0		21.62		
	1732.5	20175		1	0	21.53
				1	8	21.44
				1	14	21.52
				8	0	21.37
				8	4	21.43
				8	7	21.61
	15	0		21.48		
	1753.5	20385		1	0	21.73
				1	8	21.75
				1	14	21.78
				8	0	21.68
8			4	21.80		
8			7	21.59		
15	0	21.72				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.32
				1	12	23.22
				1	24	23.20
				12	0	22.40
				12	7	22.41
				12	13	22.40
	1732.5	20175		25	0	22.34
				1	0	23.27
				1	12	23.23
				1	24	23.21
				12	0	22.37
				12	7	22.33
	1752.5	20375		12	13	22.32
				25	0	22.35
				1	0	23.60
				1	12	23.64
				1	24	23.63
				12	0	22.61
16QAM	1712.5	19975	12	7	22.53	
			12	13	22.53	
			25	0	22.63	
			1	0	21.81	
			1	12	21.58	
			1	24	21.56	
	1732.5	20175	12	0	21.61	
			12	7	21.54	
			12	13	21.48	
			25	0	21.60	
			1	0	21.64	
			1	12	21.73	
	1752.5	20375	1	24	21.54	
			12	0	21.51	
			12	7	21.46	
			12	13	21.46	
			25	0	21.55	
			1	0	22.28	
			1	12	22.43	
			1	24	22.69	
			12	0	21.69	
			12	7	21.79	
			12	13	21.76	
			25	0	21.74	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.55
				1	12	21.59
				1	24	21.65
				12	0	21.61
				12	7	21.60
				12	13	21.63
				25	0	21.74
	1732.5	20175		1	0	21.55
				1	12	21.59
				1	24	21.54
				12	0	21.45
				12	7	21.52
				12	13	21.62
				25	0	21.34
	1752.5	20375		1	0	21.54
				1	12	21.71
				1	24	21.64
				12	0	21.72
				12	7	21.65
				12	13	21.74
				25	0	21.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.37
				1	25	23.09
				1	49	23.35
				25	0	22.51
				25	12	22.39
				25	25	22.39
	1732.5	20175		50	0	22.44
				1	0	23.44
				1	25	23.59
				1	49	23.54
				25	0	22.48
				25	12	22.36
	1750	20350		25	25	22.35
				50	0	22.27
				1	0	23.70
				1	25	23.73
				1	49	23.78
				25	0	22.48
16QAM	1715	20000	25	12	22.58	
			25	25	22.57	
			50	0	22.59	
			1	0	23.01	
			1	25	22.88	
			1	49	22.79	
	1732.5	20175	25	0	21.57	
			25	12	21.57	
			25	25	21.57	
			50	0	21.54	
			1	0	23.23	
			1	25	23.27	
	1750	20350	1	49	23.16	
			25	0	21.62	
			25	12	21.53	
			25	25	21.53	
			50	0	21.42	
			1	0	22.21	
			1	25	22.41	
			1	49	22.41	
			25	0	21.87	
			25	12	21.97	
			25	25	21.82	
			50	0	21.76	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.63
				1	25	21.72
				1	49	21.55
				25	0	21.57
				25	12	21.62
				25	25	21.57
				50	0	21.52
	1732.5	20175		1	0	21.60
				1	25	21.49
				1	49	21.58
				25	0	21.54
				25	12	21.67
				25	25	21.44
				50	0	21.58
	1750	20350		1	0	21.68
				1	25	21.58
				1	49	21.71
				25	0	21.64
				25	12	21.82
				25	25	21.78
				50	0	21.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.79
				1	37	23.87
				1	74	23.81
				36	0	22.35
				36	29	22.41
				36	30	22.42
	1732.5	20175		75	0	22.44
				1	0	23.91
				1	37	23.91
				1	74	23.89
				36	0	22.36
				36	29	22.38
	1747.5	20325		36	30	22.37
				75	0	22.43
				1	0	24.08
				1	37	24.32
				1	74	24.30
				36	0	22.54
16QAM	1717.5	20025	36	29	22.50	
			36	30	22.51	
			75	0	22.54	
			1	0	23.45	
			1	37	23.27	
			1	74	23.27	
	1732.5	20175	36	0	21.43	
			36	29	21.47	
			36	30	21.65	
			75	0	21.63	
			1	0	23.15	
			1	37	23.06	
	1747.5	20325	1	74	23.09	
			36	0	21.52	
			36	29	21.52	
			36	30	21.60	
			75	0	21.57	
			1	0	23.37	
			1	37	23.47	
			1	74	23.62	
			36	0	21.59	
			36	29	21.70	
			36	30	21.71	
			75	0	21.71	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.56
				1	37	21.63
				1	74	21.68
				36	0	21.64
				36	29	21.73
				36	30	21.62
				75	0	21.58
	1732.5	20175		1	0	21.57
				1	37	21.62
				1	74	21.56
				36	0	21.48
				36	29	21.62
				36	30	21.53
				75	0	21.50
	1747.5	20325		1	0	21.71
				1	37	21.68
				1	74	21.59
				36	0	21.64
				36	29	21.71
				36	30	21.68
				75	0	21.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	24.08
				1	49	23.89
				1	99	23.87
				50	0	22.37
				50	24	22.25
				50	50	22.25
	1732.5	20175		100	0	22.43
				1	0	24.02
				1	49	24.09
				1	99	24.07
				50	0	22.37
				50	24	22.41
	1745	20300		50	50	22.41
				100	0	22.48
				1	0	24.03
				1	49	24.26
				1	99	24.24
				50	0	22.43
16QAM	1720	20050	50	24	22.56	
			50	50	22.56	
			100	0	22.43	
			1	0	22.98	
			1	49	22.79	
			1	99	22.78	
	1732.5	20175	50	0	21.55	
			50	24	21.43	
			50	50	21.52	
			100	0	21.45	
			1	0	23.44	
			1	49	23.38	
	1745	20300	1	99	23.37	
			50	0	21.43	
			50	24	21.56	
			50	50	21.56	
			100	0	21.43	
			1	0	23.78	
			1	49	24.03	
			1	99	24.03	
			50	0	21.44	
			50	24	21.64	
			50	50	21.71	
			100	0	21.58	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.46
				1	49	21.38
				1	99	21.53
				50	0	21.54
				50	24	21.59
				50	50	21.48
				100	0	21.62
	1732.5	20175		1	0	21.53
				1	49	21.67
				1	99	21.38
				50	0	21.45
				50	24	21.47
				50	50	21.60
				100	0	21.52
	1745	20300		1	0	21.57
				1	49	21.53
				1	99	21.49
				50	0	21.52
				50	24	21.41
				50	50	21.52
				100	0	21.59

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.083	Fig.1	1.087	Fig.2	1.091	Fig.3
	1732.5	20175		6	0	1.087	Fig.4	1.078	Fig.5	1.083	Fig.6
	1754.3	20393		6	0	1.087	Fig.7	1.083	Fig.8	1.083	Fig.9
	1711.5	19965	3	15	0	2.688	Fig.10	2.679	Fig.11	2.679	Fig.12
	1732.5	20175		15	0	2.688	Fig.13	2.679	Fig.14	2.688	Fig.15
	1753.5	20385		15	0	2.679	Fig.16	2.688	Fig.17	2.688	Fig.18
	1712.5	19975	5	25	0	4.466	Fig.19	4.472	Fig.20	4.493	Fig.21
	1732.5	20175		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	1752.5	20375		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1715	20000	10	50	0	8.931	Fig.28	8.931	Fig.29	8.961	Fig.30
	1732.5	20175		50	0	8.931	Fig.31	8.931	Fig.32	8.931	Fig.33
	1750	20350		50	0	8.931	Fig.34	8.931	Fig.35	8.931	Fig.36
	1717.5	20025	15	75	0	13.442	Fig.37	13.487	Fig.38	13.397	Fig.39
	1732.5	20175		75	0	13.397	Fig.40	13.487	Fig.41	13.487	Fig.42
	1747.5	20325		75	0	13.442	Fig.43	13.397	Fig.44	13.442	Fig.45
	1720	20050	20	100	0	17.862	Fig.46	17.862	Fig.47	17.862	Fig.48
	1732.5	20175		100	0	17.862	Fig.49	17.862	Fig.50	17.862	Fig.51
	1745	20300		100	0	17.862	Fig.52	17.862	Fig.53	17.862	Fig.54

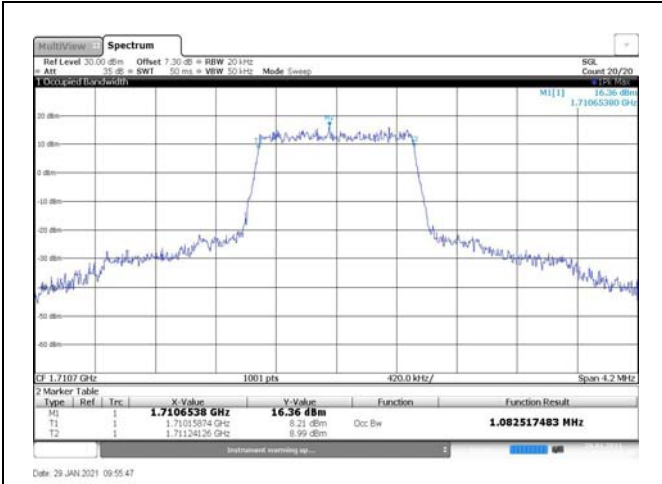


Fig.1

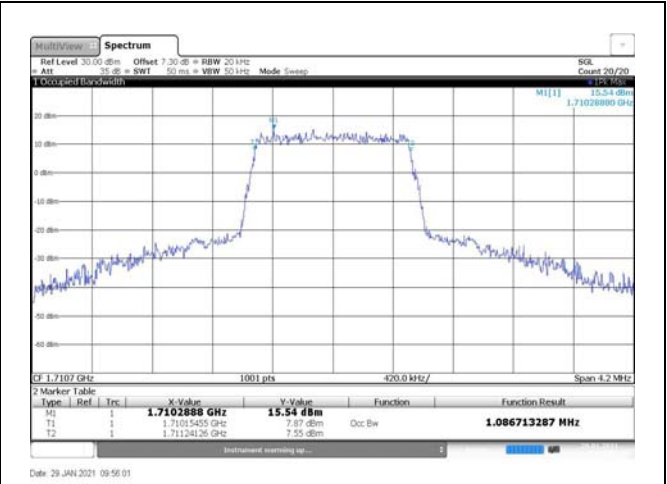


Fig.2

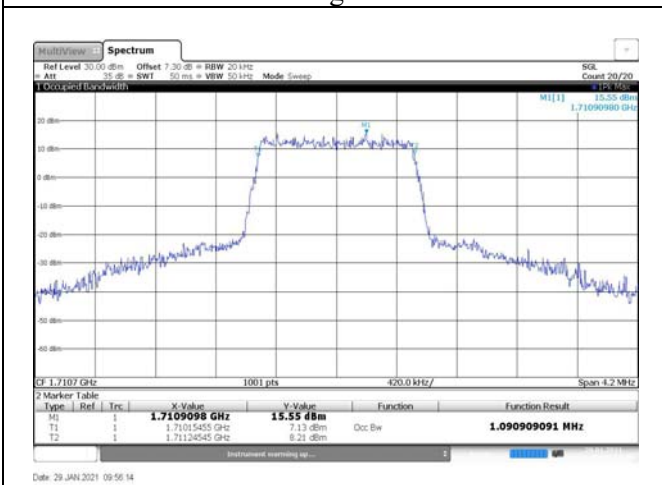


Fig.3

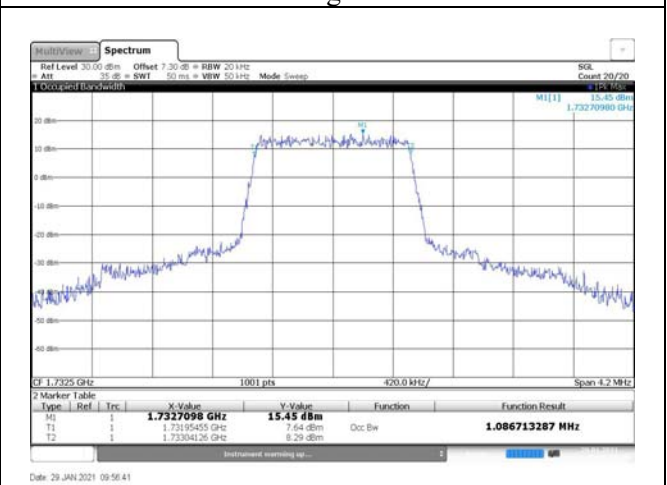


Fig.4

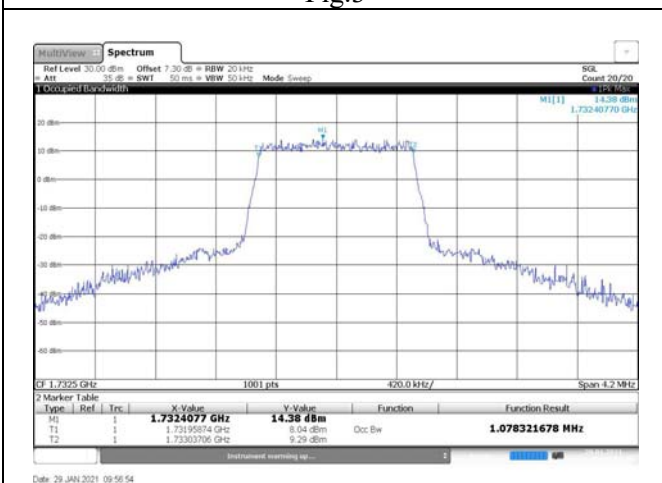


Fig.5

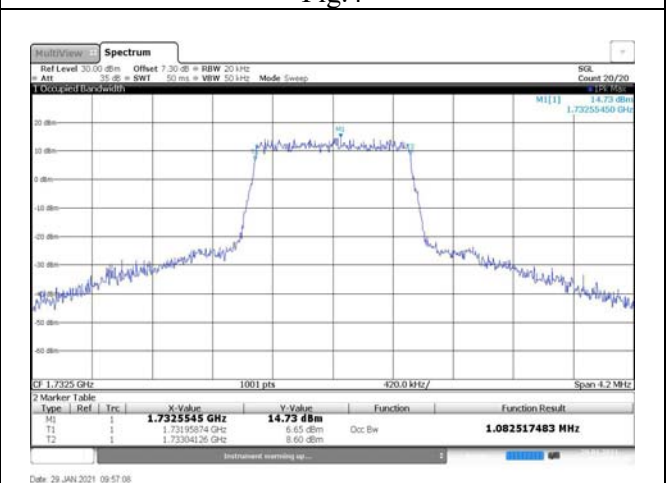


Fig.6

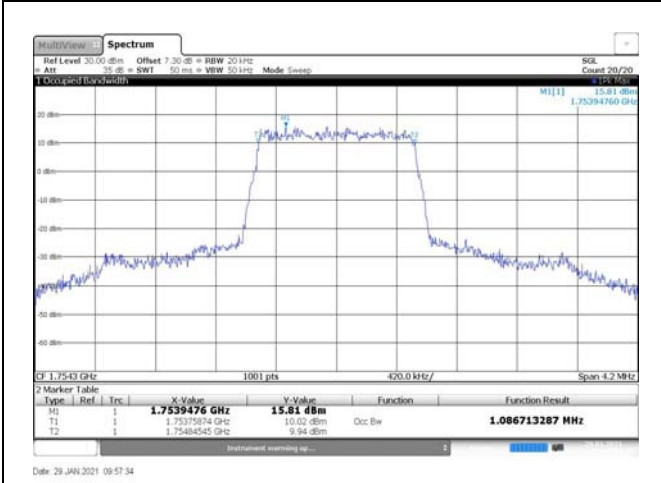


Fig.7

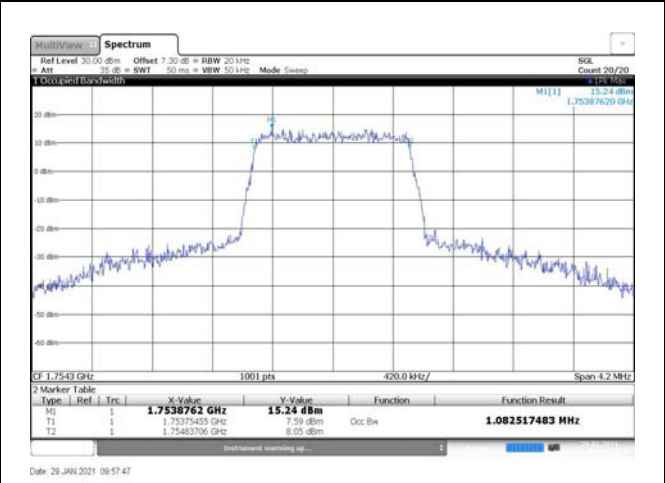


Fig.8

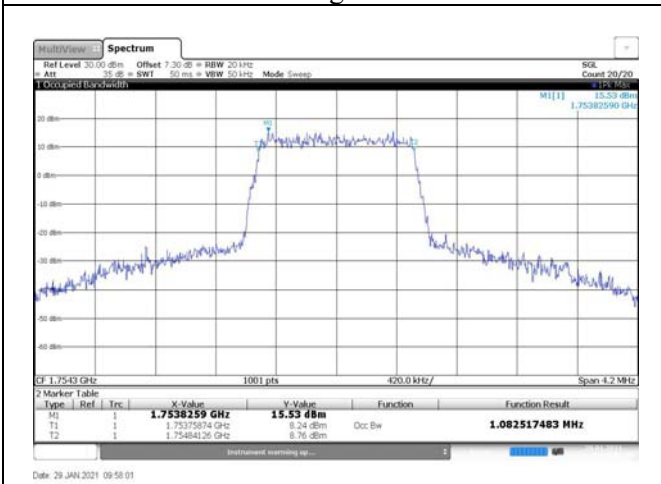


Fig.9

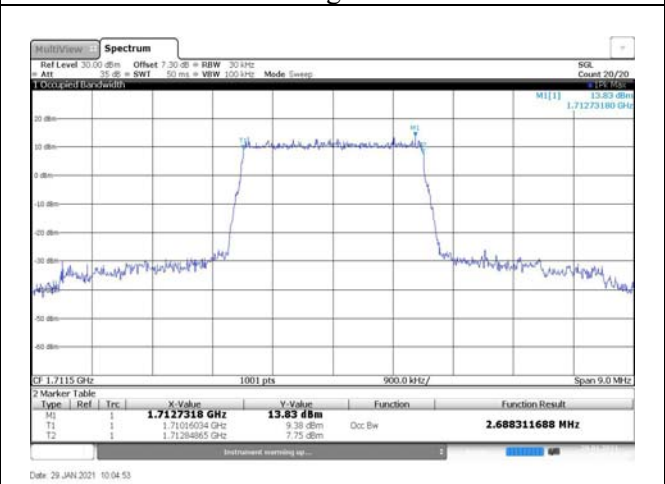


Fig.10

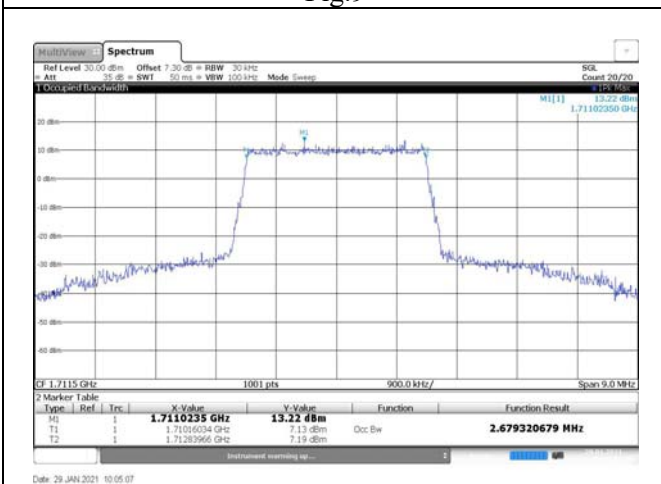


Fig.11

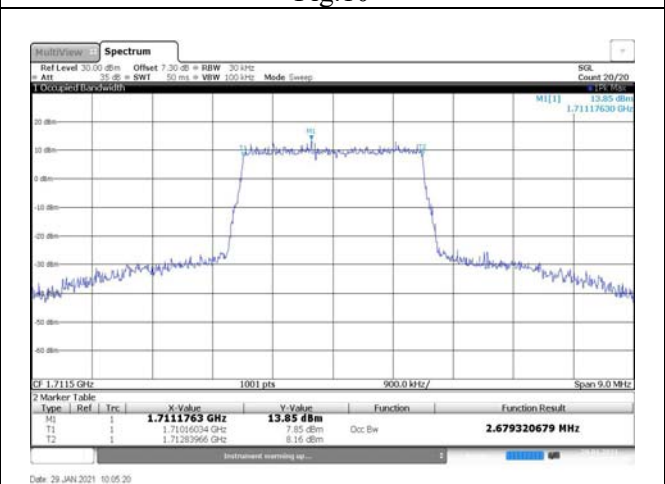


Fig.12

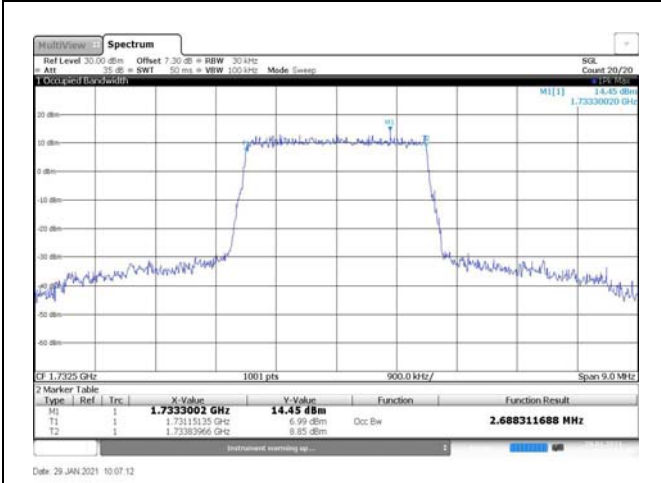


Fig.13

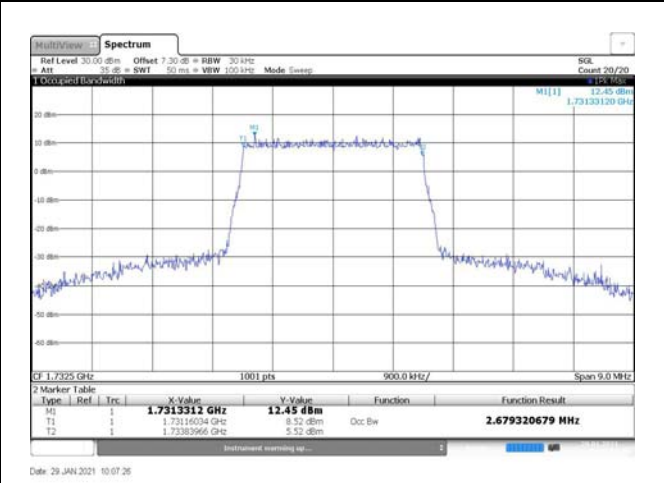


Fig.14

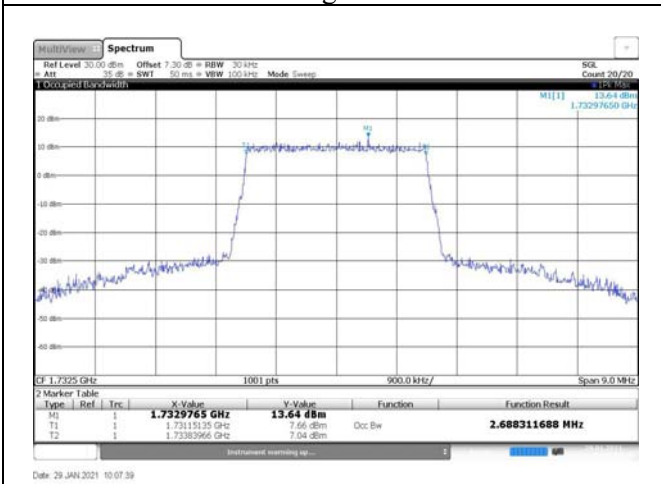


Fig.15

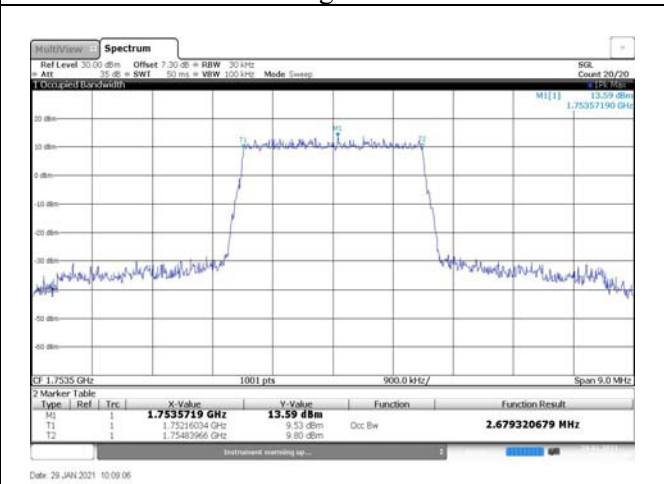


Fig.16

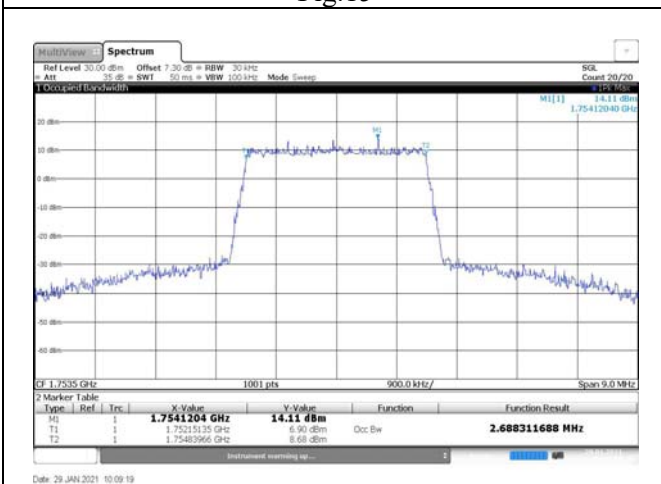


Fig.17

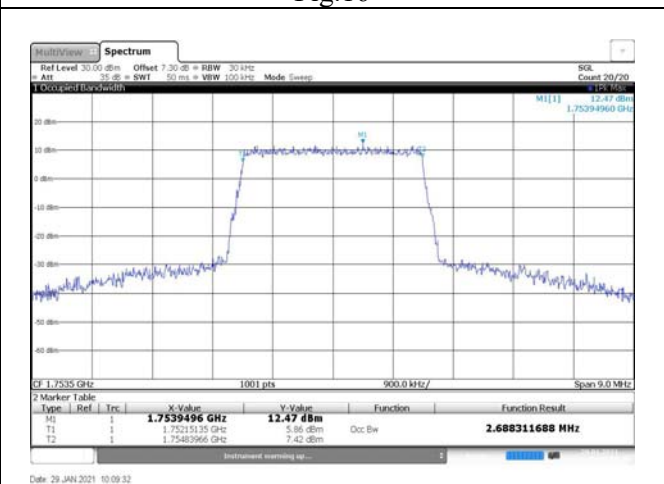


Fig.18

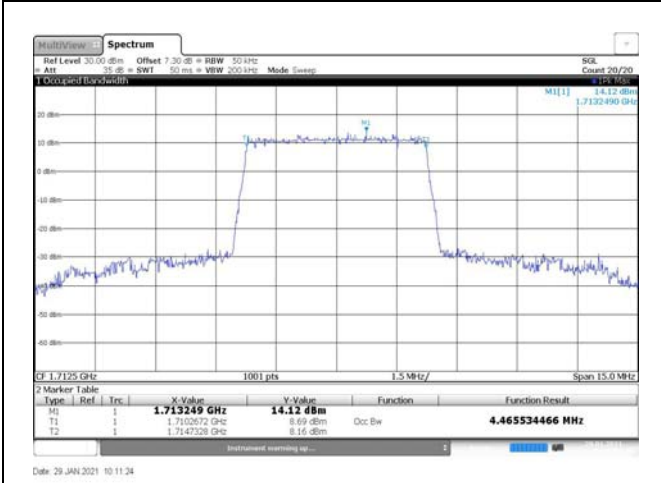


Fig.19

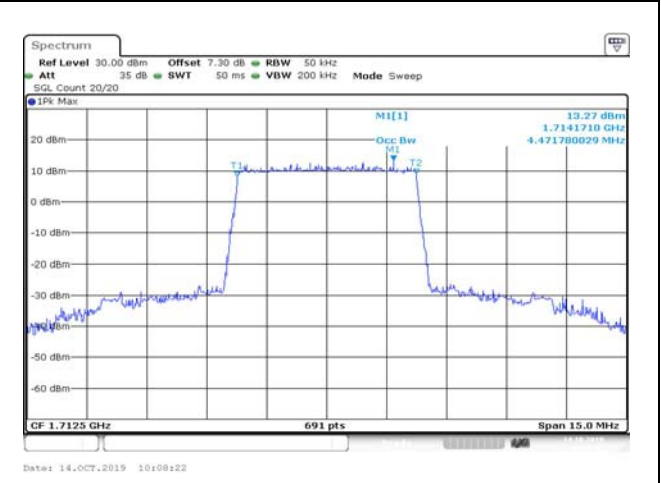


Fig.20

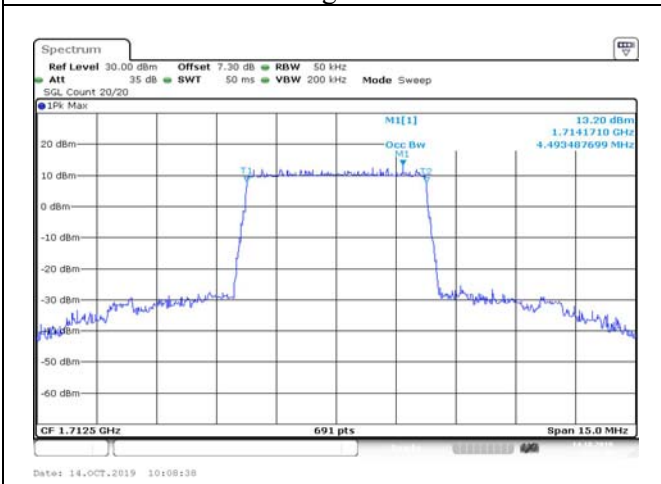


Fig.21

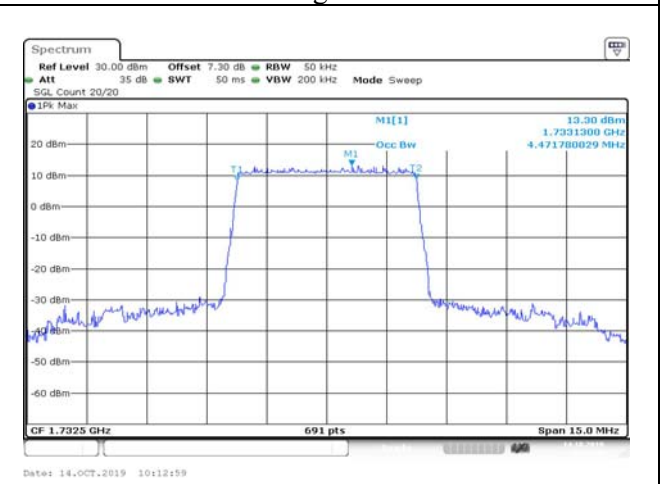


Fig.22

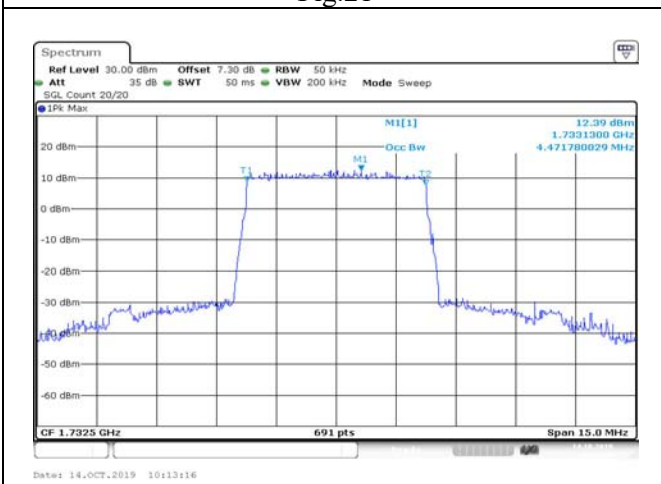


Fig.23

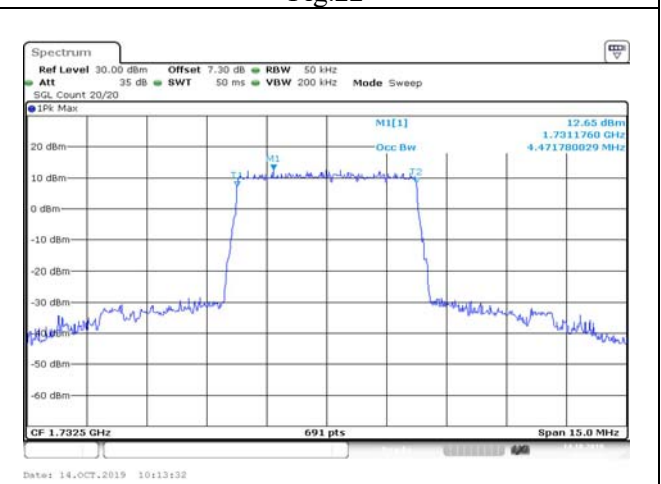
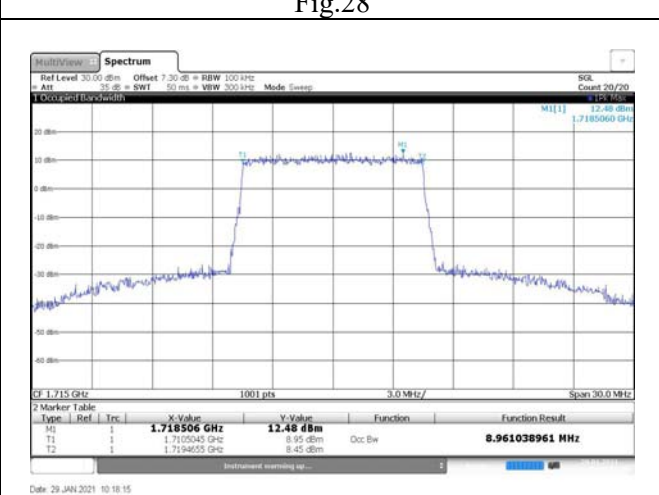
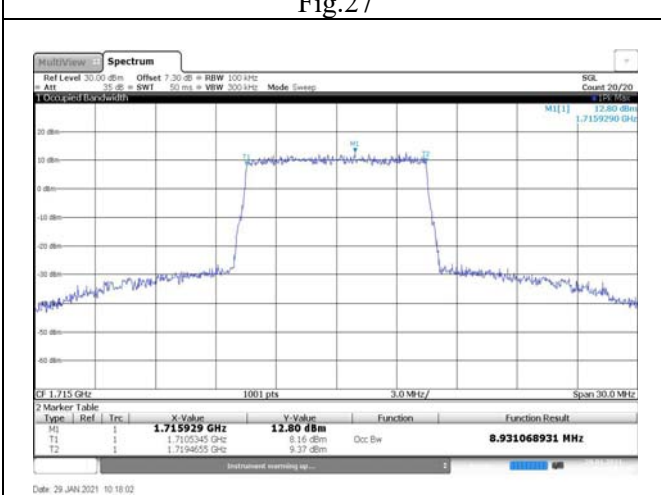
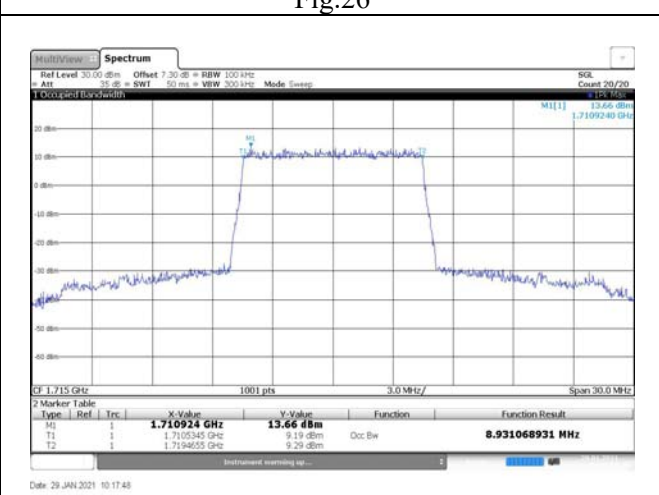
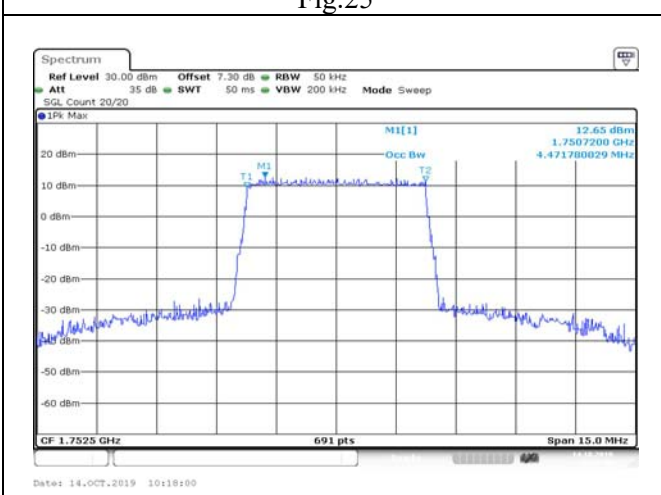
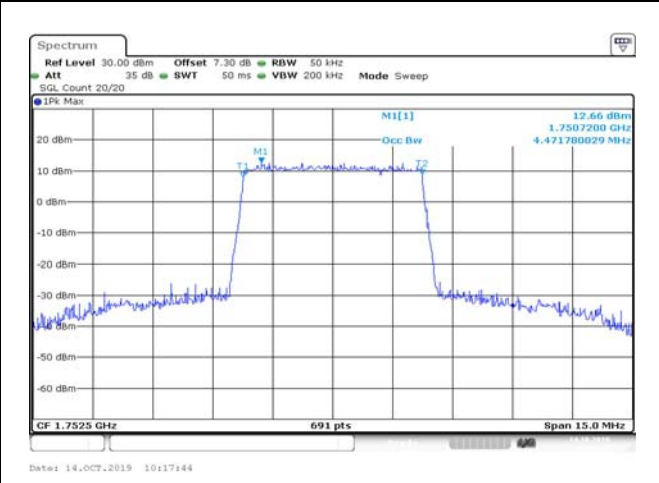
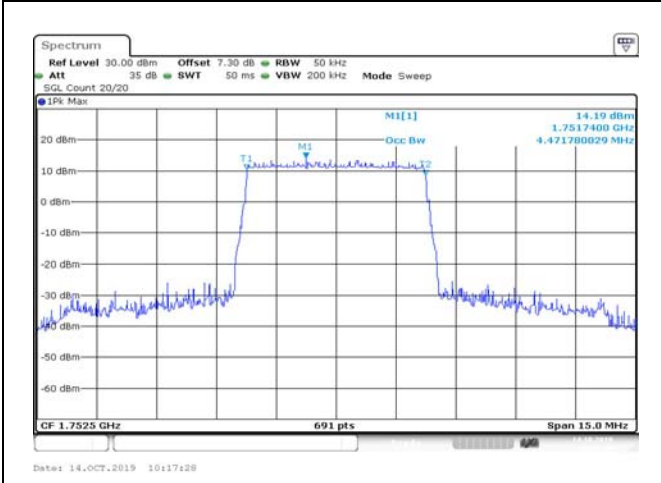


Fig.24



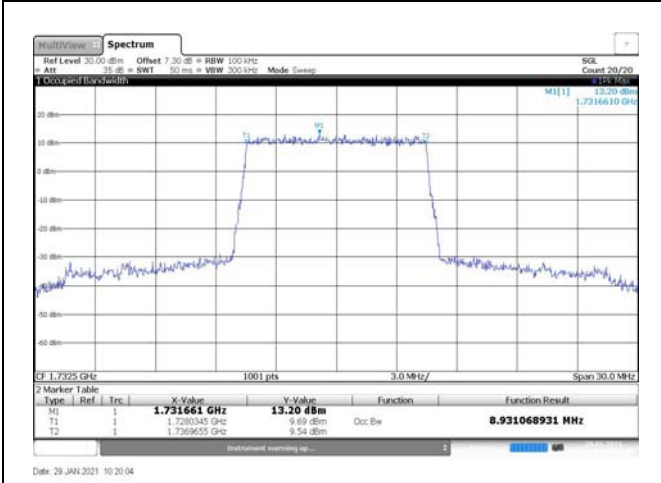


Fig.31

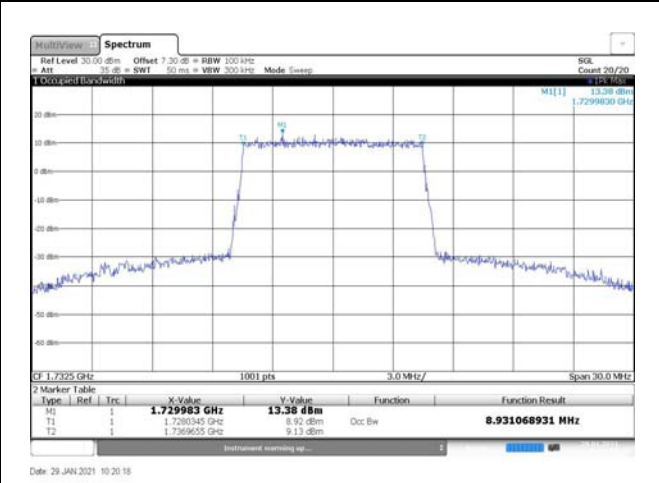


Fig.32

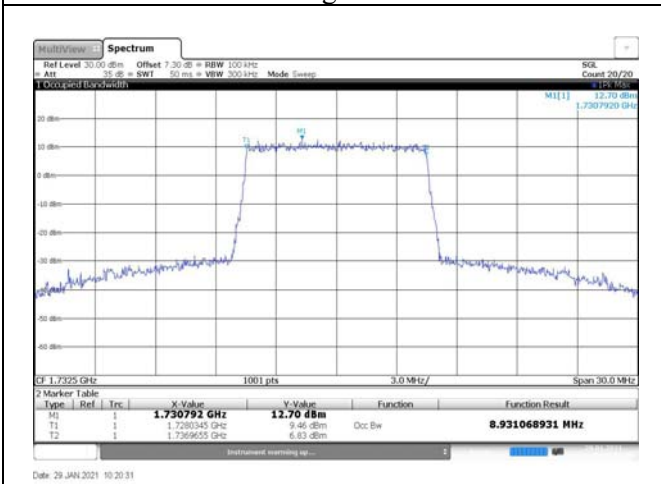


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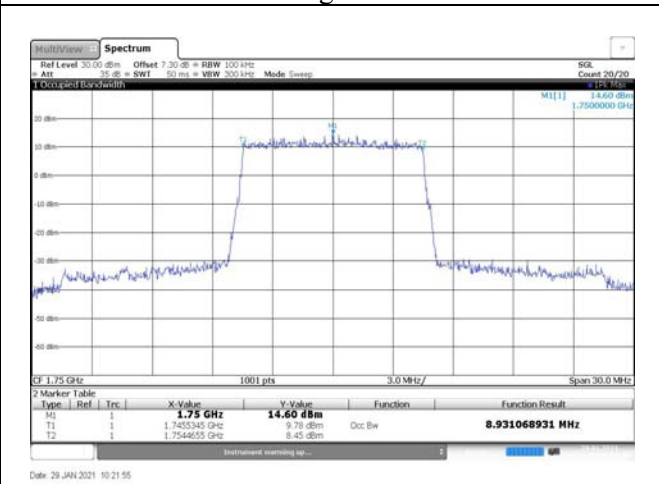


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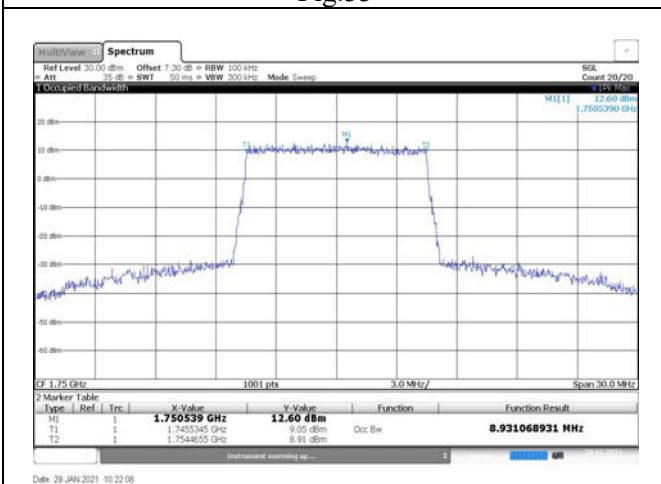


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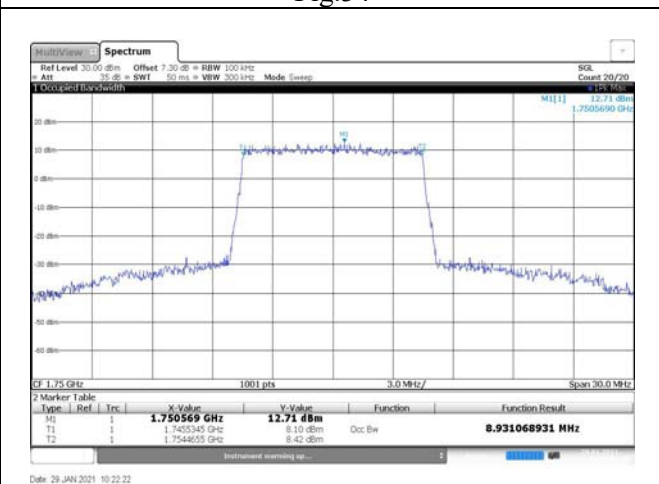


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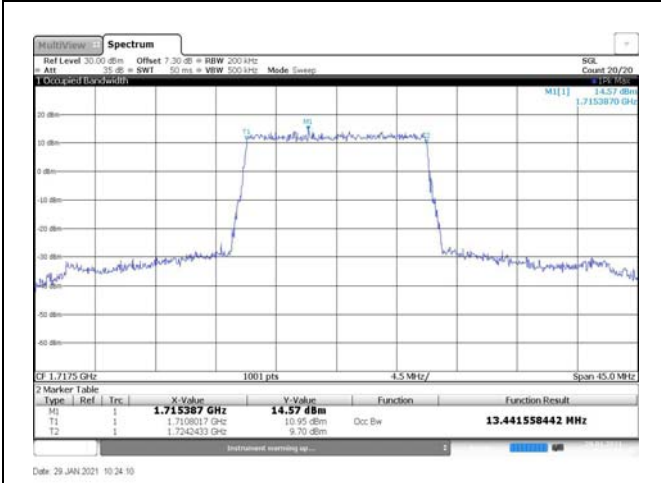


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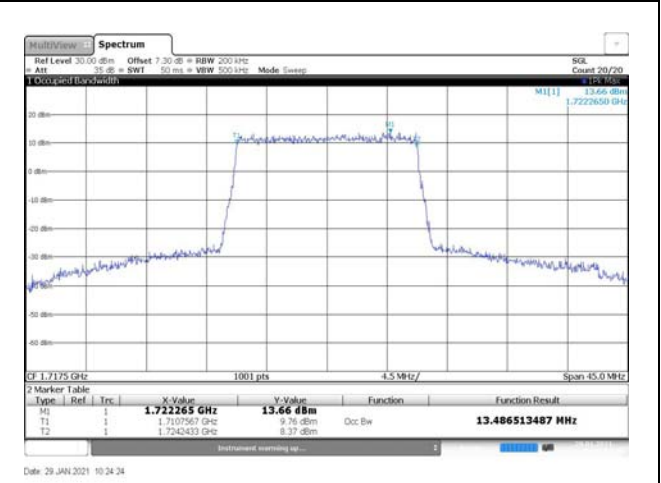


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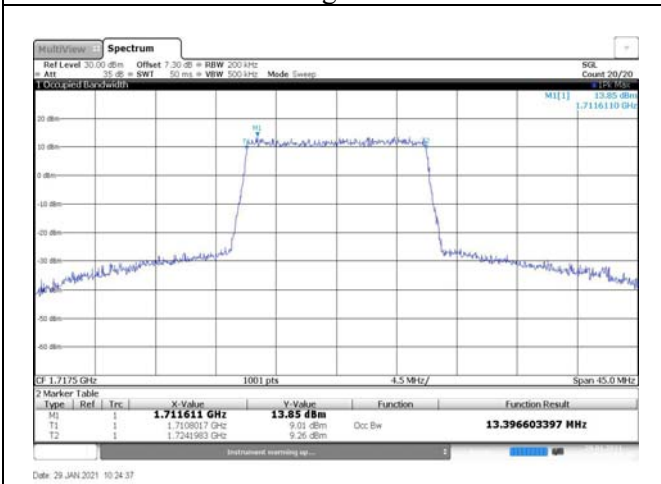


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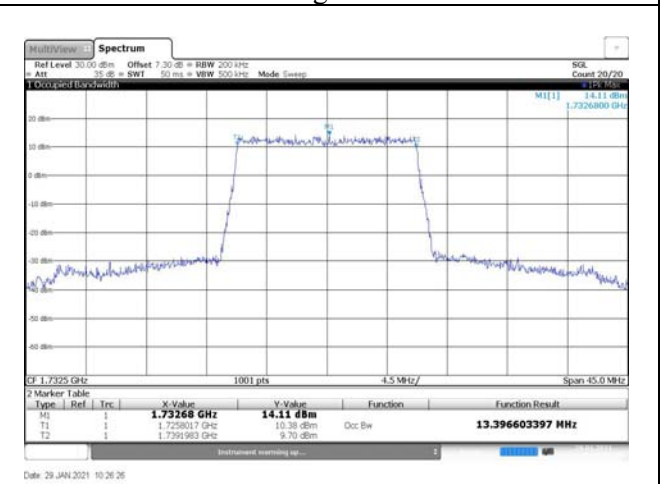


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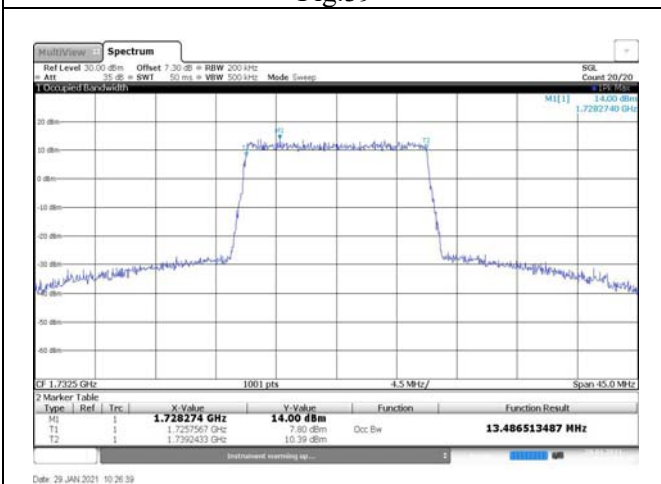


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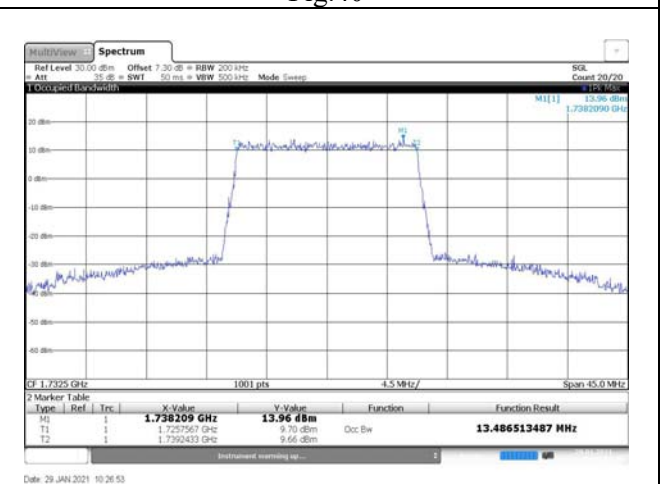


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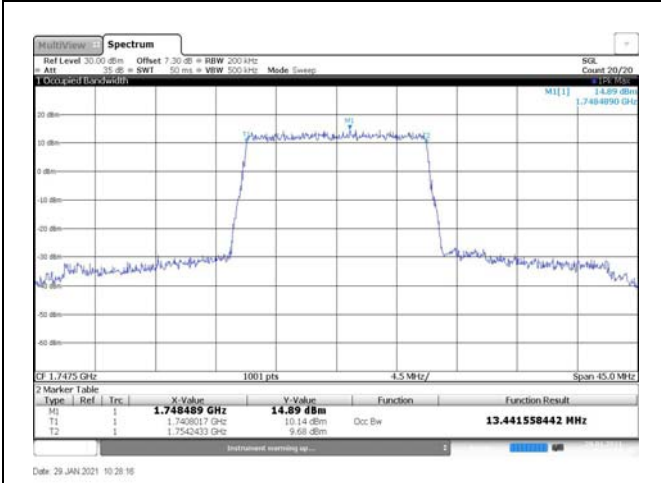


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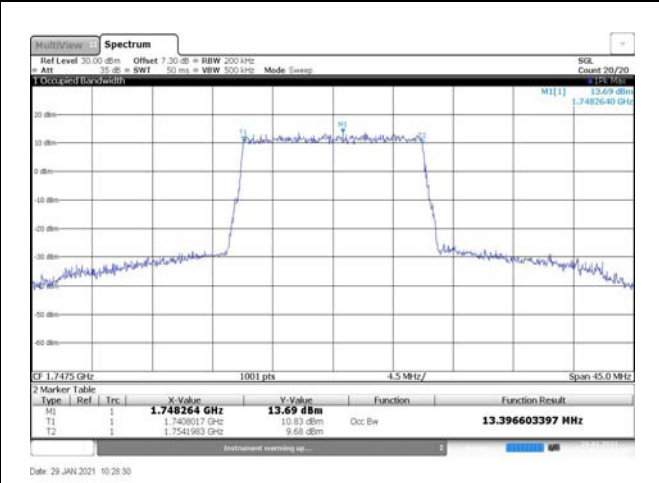


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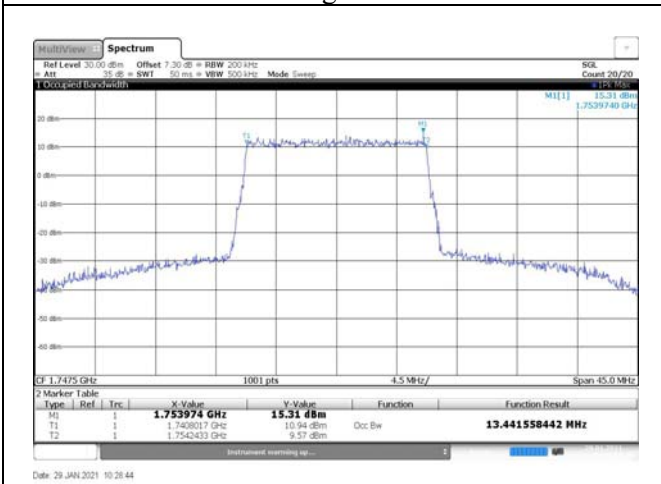


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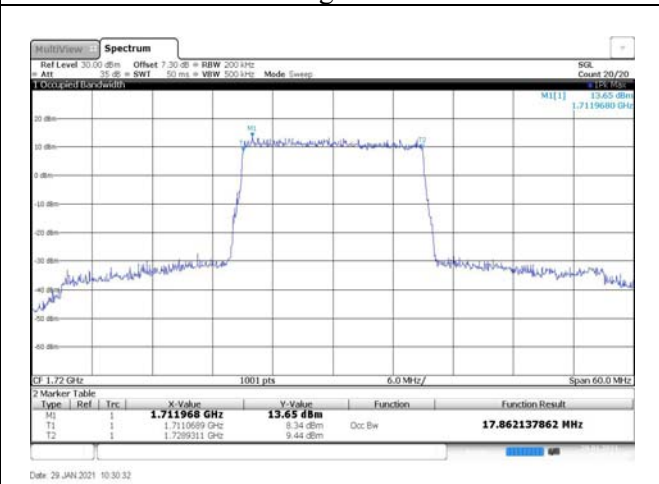


Fig.46

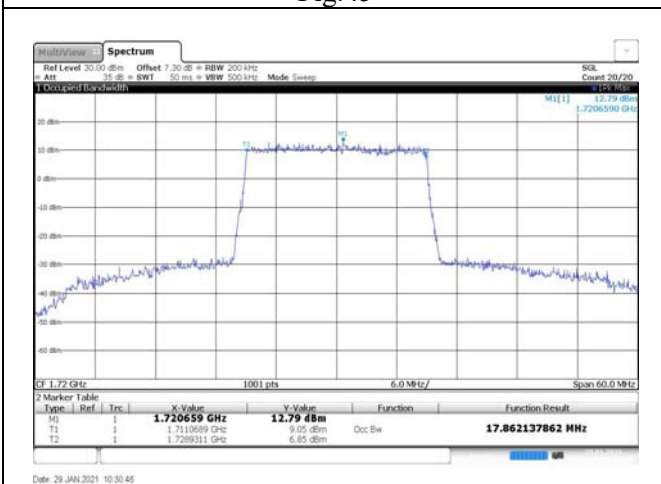


Fig.47

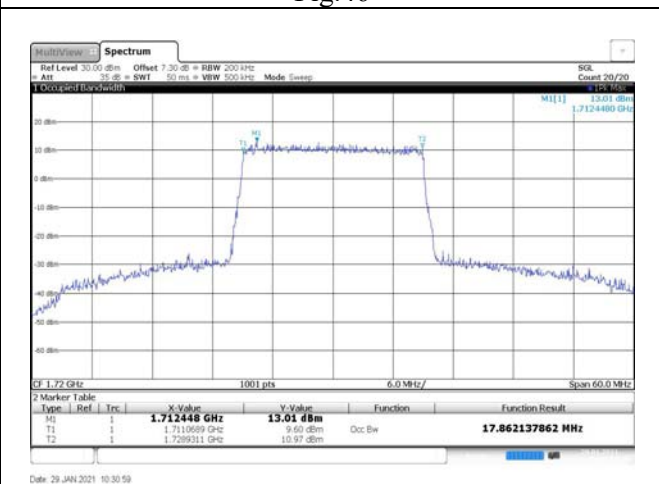


Fig.48

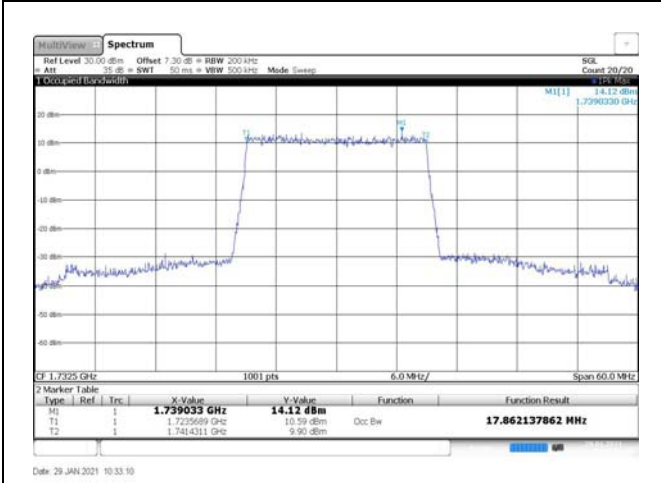


Fig.49

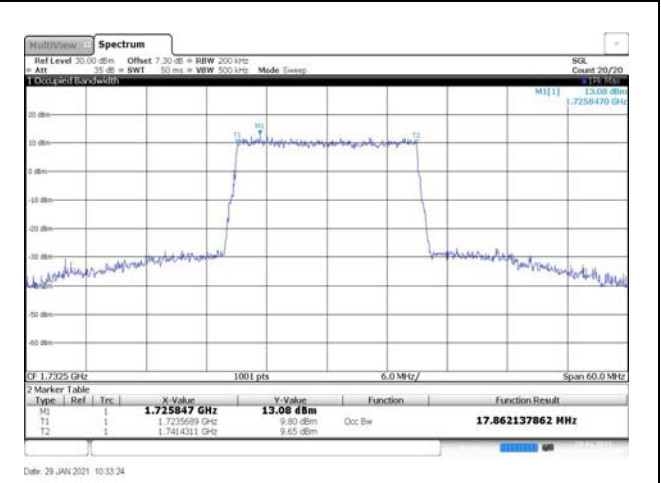


Fig.50

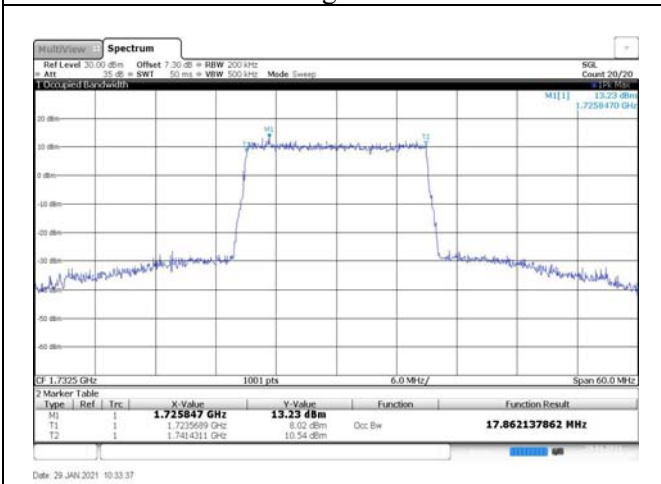


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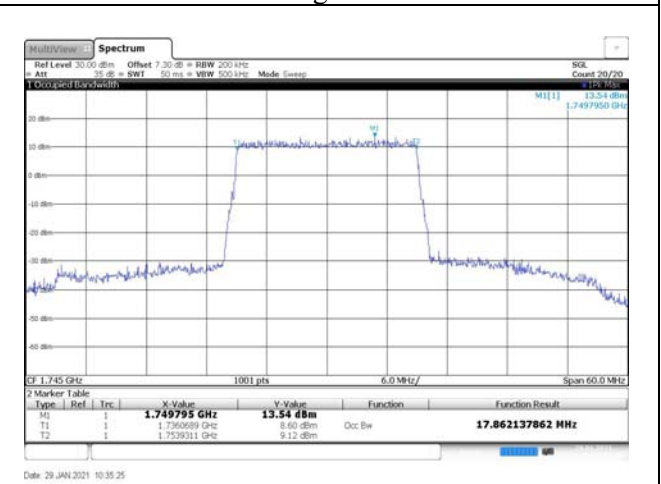


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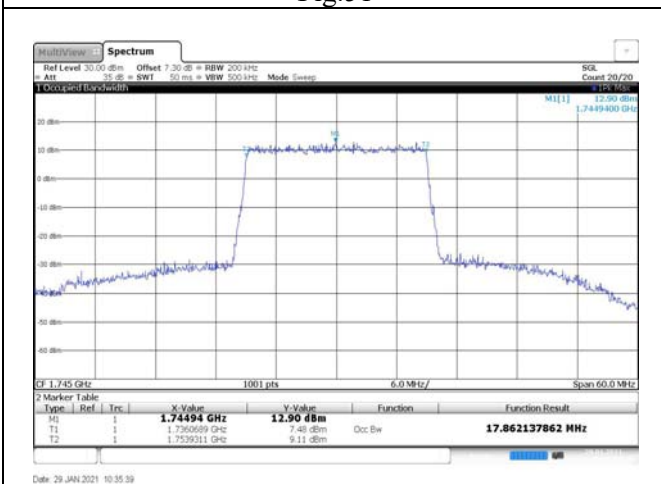


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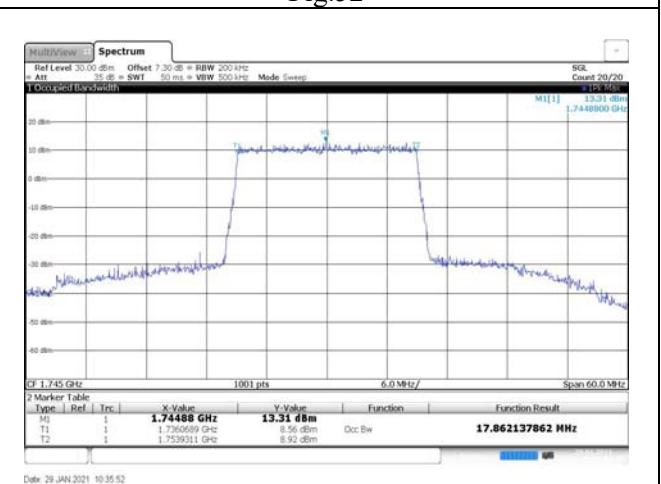


Fig.54

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	
4	1710.7	19957	1.4	6	0	1.225	Fig.1	1.225	Fig.2	1.217	Fig.3
	1732.5	20175		6	0	1.229	Fig.4	1.213	Fig.5	1.217	Fig.6
	1754.3	20393		6	0	1.234	Fig.7	1.229	Fig.8	1.221	Fig.9
	1711.5	19965	3	15	0	2.931	Fig.10	2.958	Fig.11	2.949	Fig.12
	1732.5	20175		15	0	3.003	Fig.13	2.976	Fig.14	2.967	Fig.15
	1753.5	20385		15	0	2.976	Fig.16	2.967	Fig.17	3.003	Fig.18
	1712.5	19975	5	25	0	4.870	Fig.19	4.906	Fig.20	4.884	Fig.21
	1732.5	20175		25	0	4.863	Fig.22	4.863	Fig.23	4.884	Fig.24
	1752.5	20375		25	0	4.884	Fig.25	4.884	Fig.26	4.863	Fig.27
	1715	20000	10	50	0	9.650	Fig.28	9.650	Fig.29	9.680	Fig.30
	1732.5	20175		50	0	9.201	Fig.31	9.650	Fig.32	9.680	Fig.33
	1750	20350		50	0	9.710	Fig.34	9.680	Fig.35	9.680	Fig.36
	1717.5	20025	15	75	0	14.655	Fig.37	14.565	Fig.38	14.745	Fig.39
	1732.5	20175		75	0	14.565	Fig.40	14.700	Fig.41	14.745	Fig.42
	1747.5	20325		75	0	14.700	Fig.43	14.431	Fig.44	14.700	Fig.45
	1720	20050	20	100	0	19.121	Fig.46	19.421	Fig.47	19.301	Fig.48
	1732.5	20175		100	0	19.301	Fig.49	19.421	Fig.50	19.421	Fig.51
	1745	20300		100	0	19.301	Fig.52	19.121	Fig.53	19.361	Fig.54

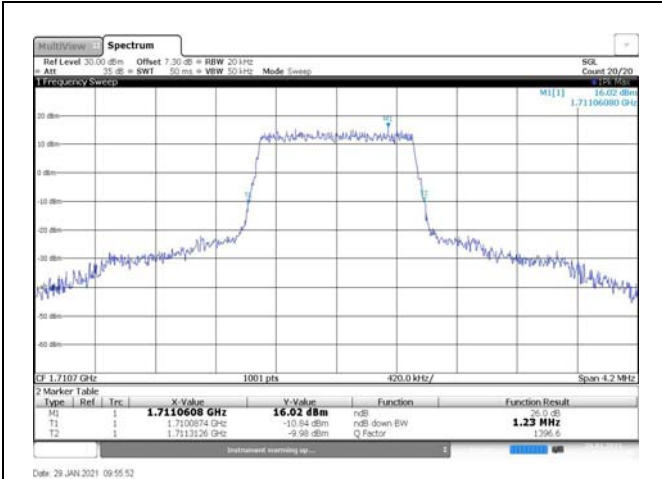


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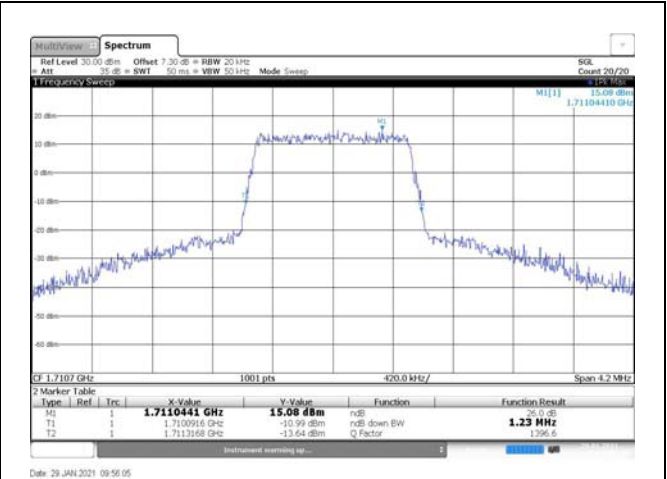


Fig.2

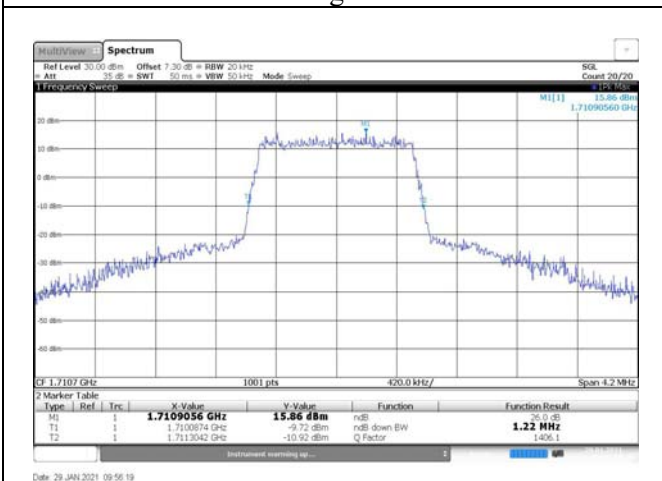


Fig.3

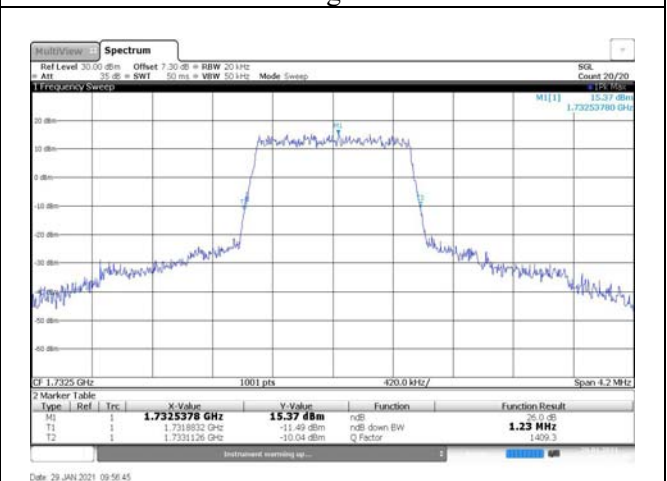


Fig.4

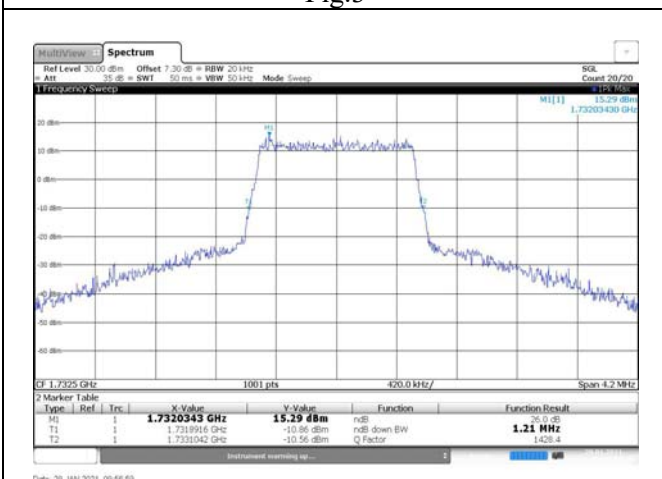


Fig.5

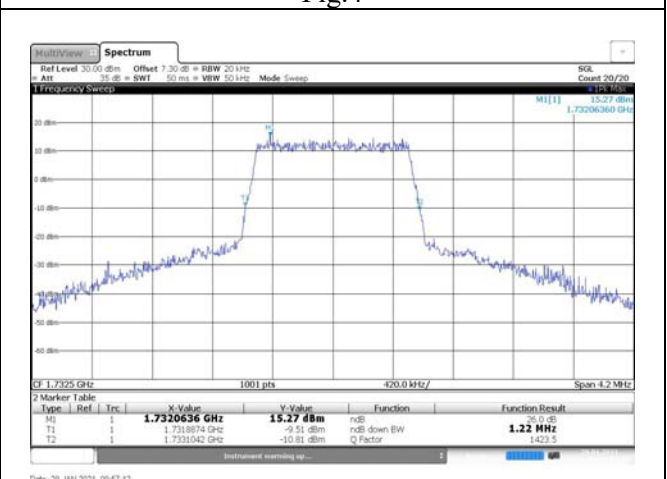


Fig.6

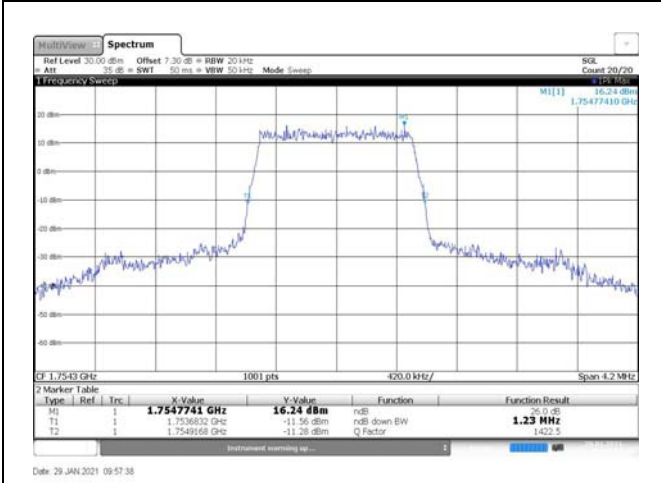


Fig.7

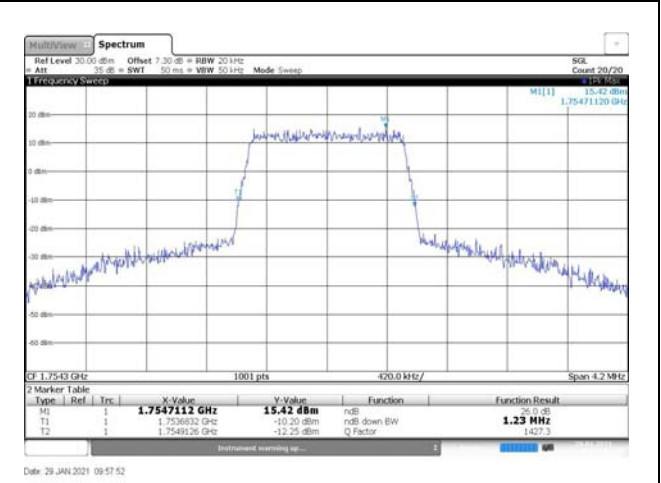


Fig.8

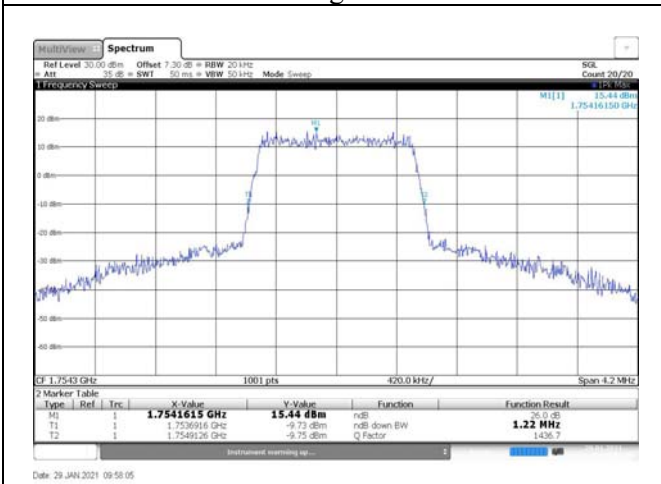


Fig.9

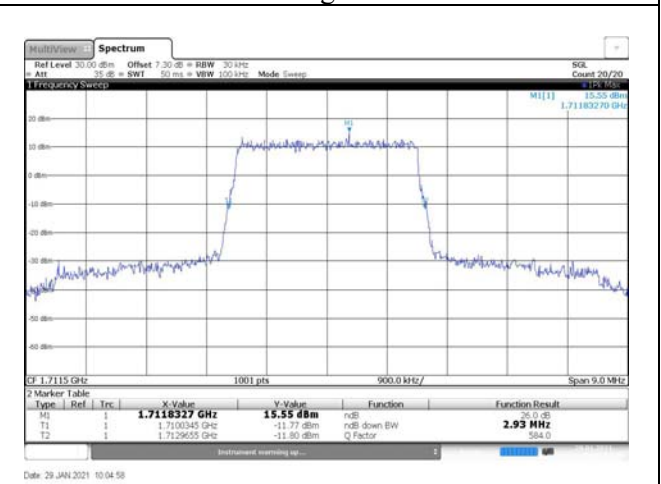


Fig.10

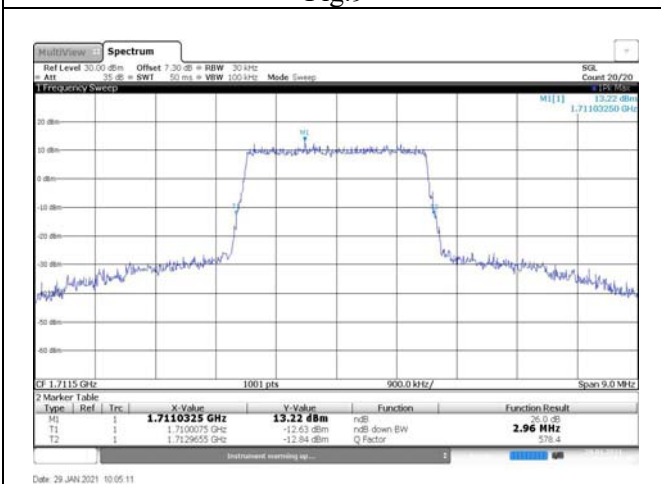


Fig.11

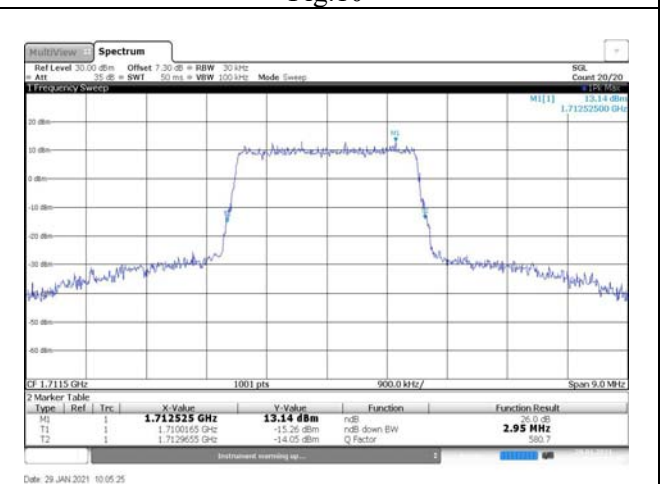


Fig.12

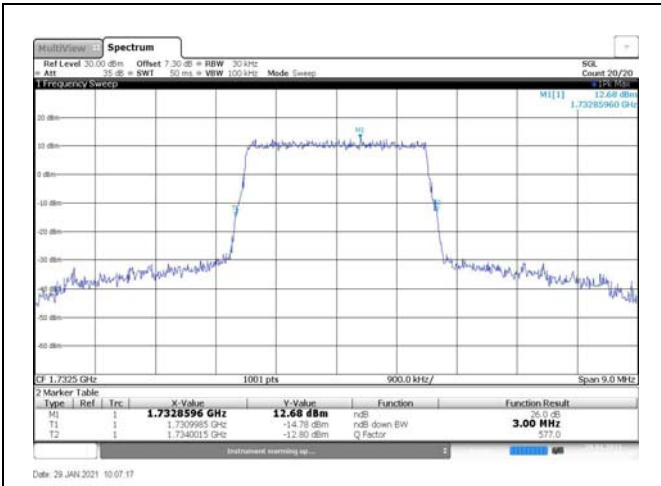


Fig.13

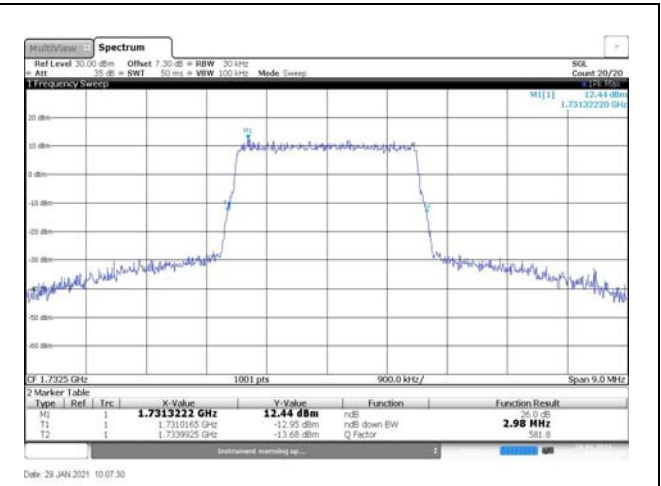


Fig.14

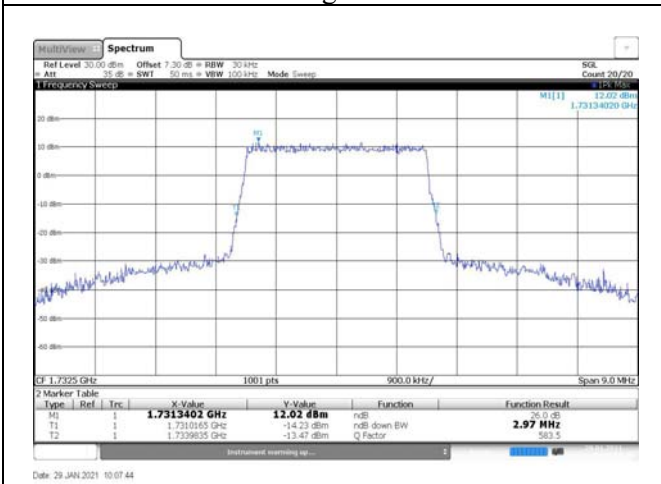


Fig.15

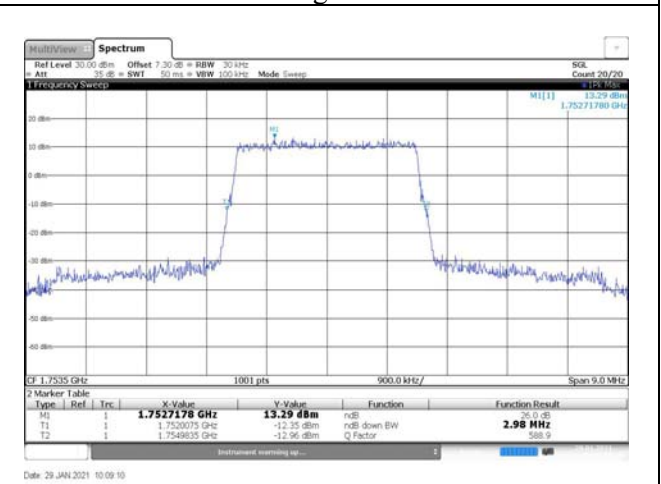


Fig.16

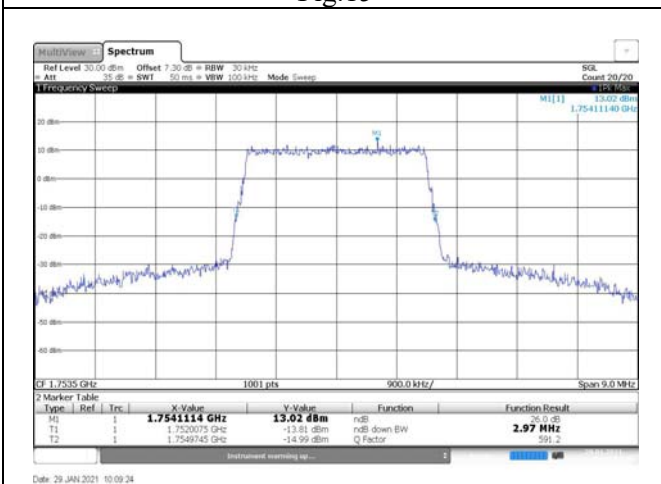


Fig.17

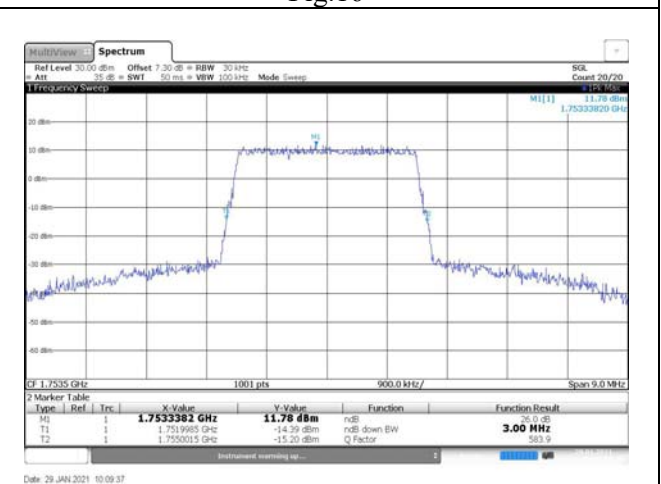


Fig.18

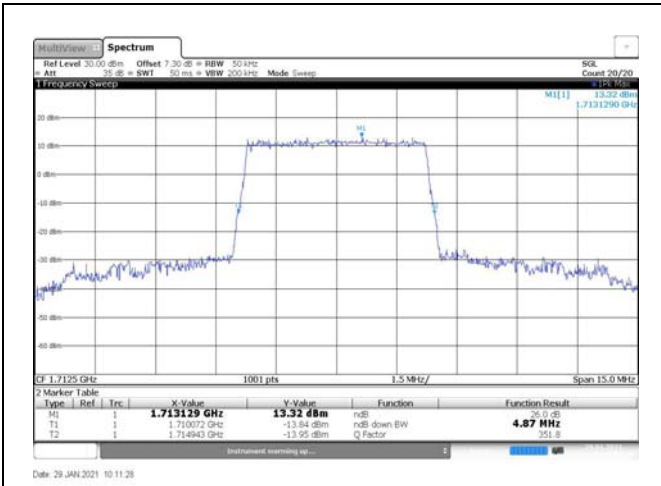


Fig.19

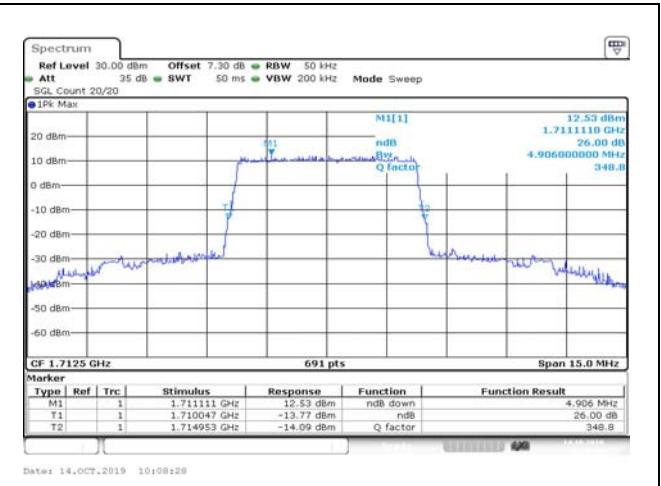


Fig.20

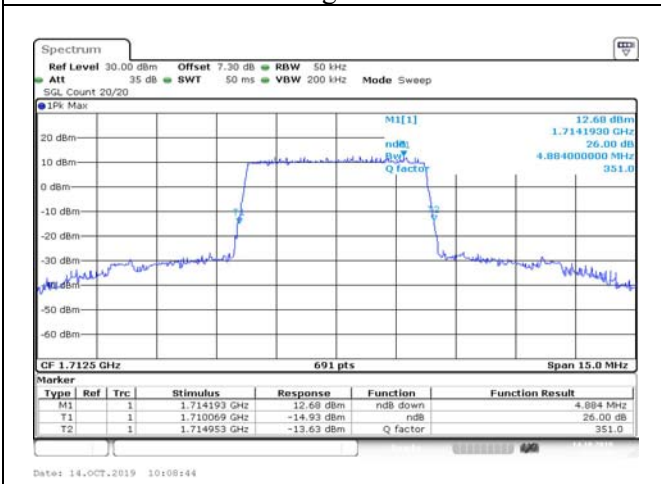


Fig.21

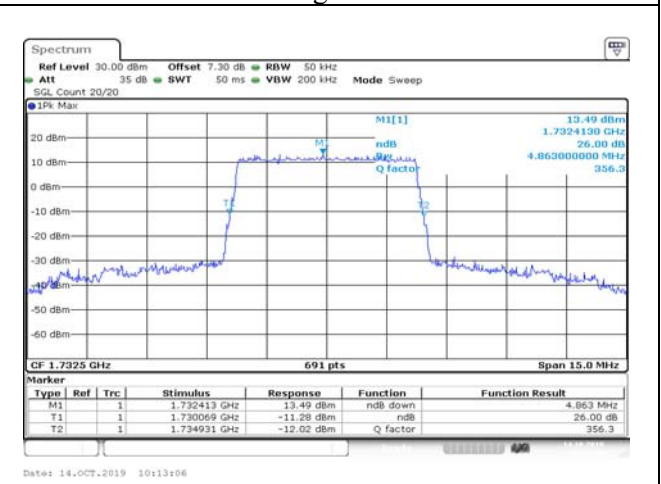


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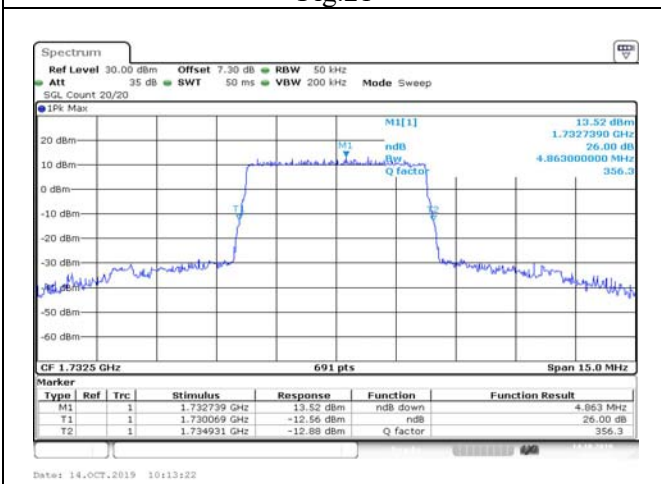


Fig.23

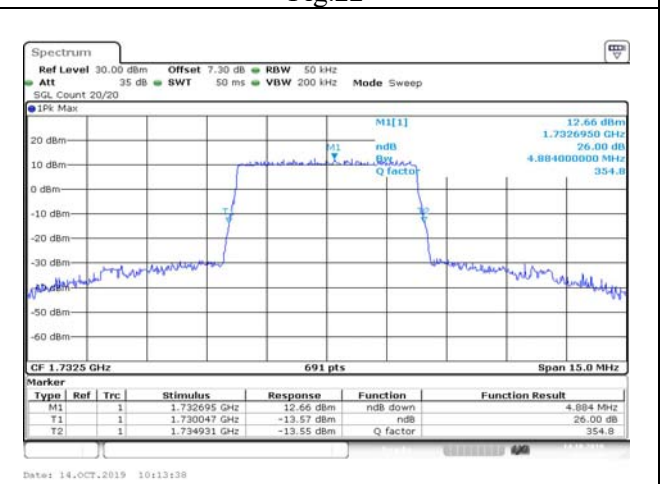


Fig.24

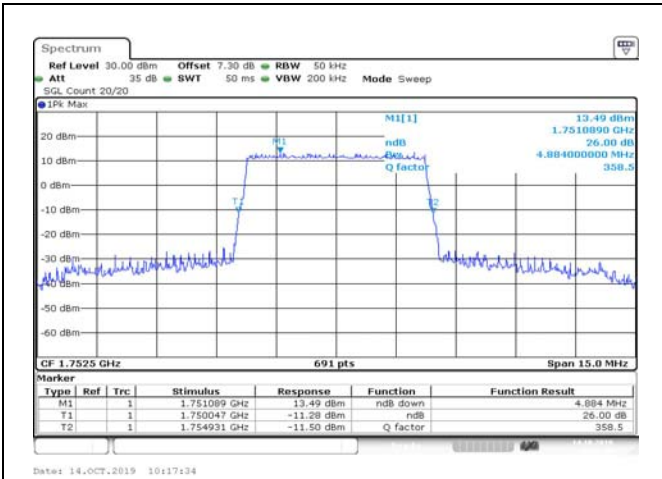


Fig.25

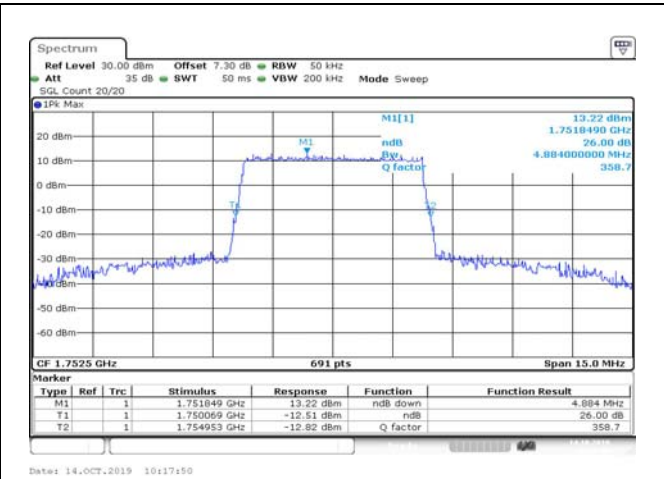


Fig.26

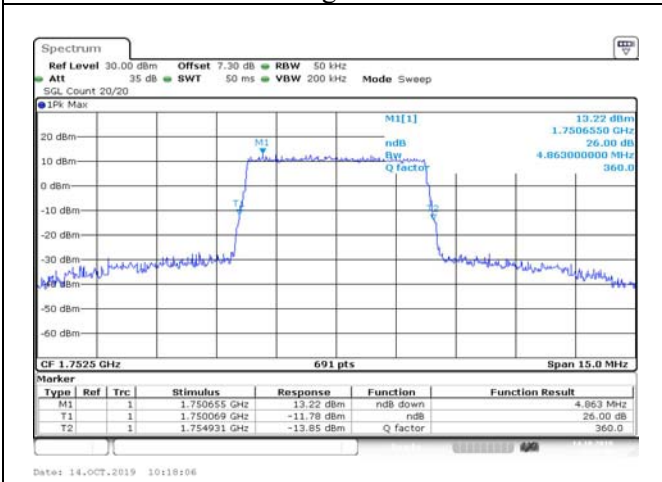


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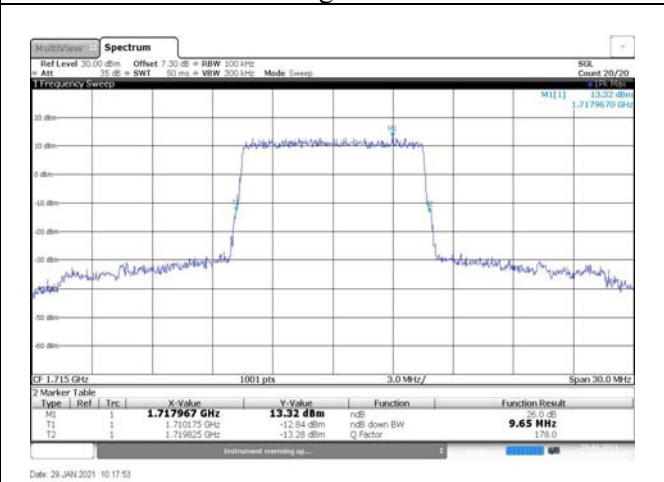


Fig.28

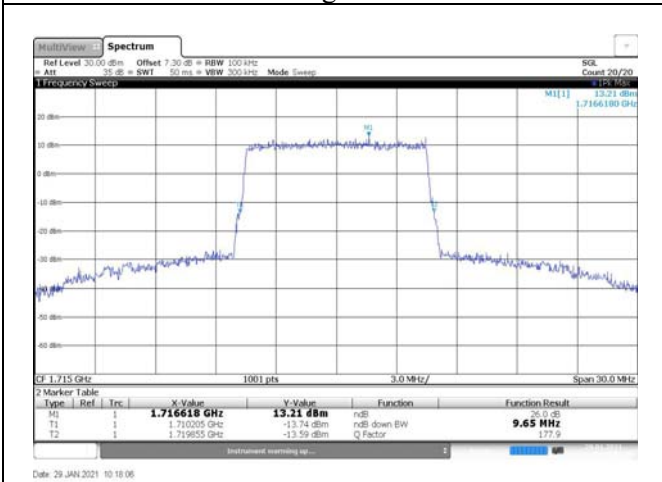


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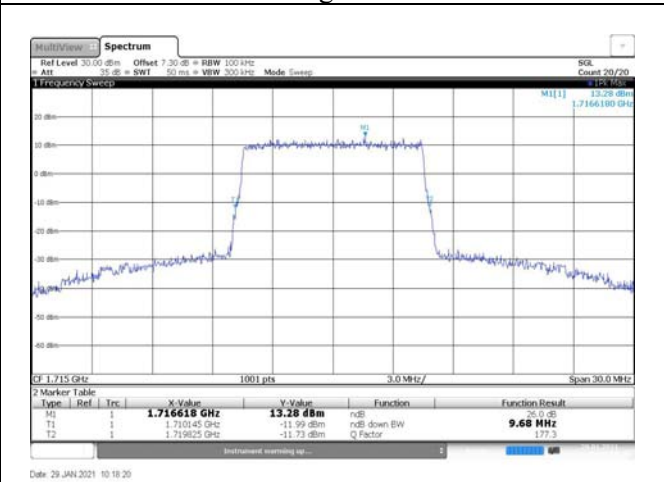


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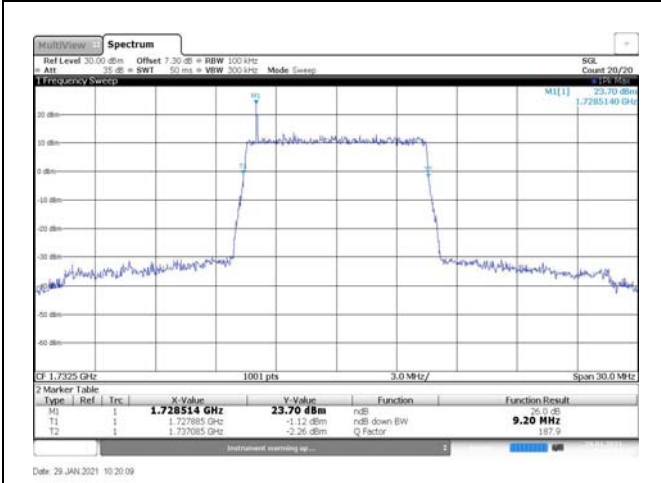


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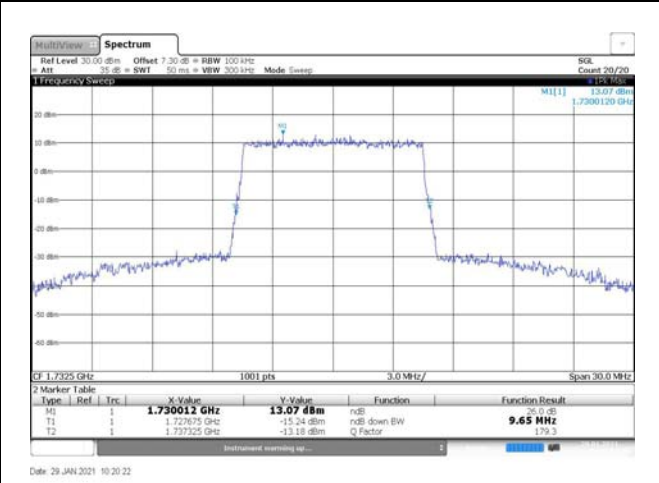


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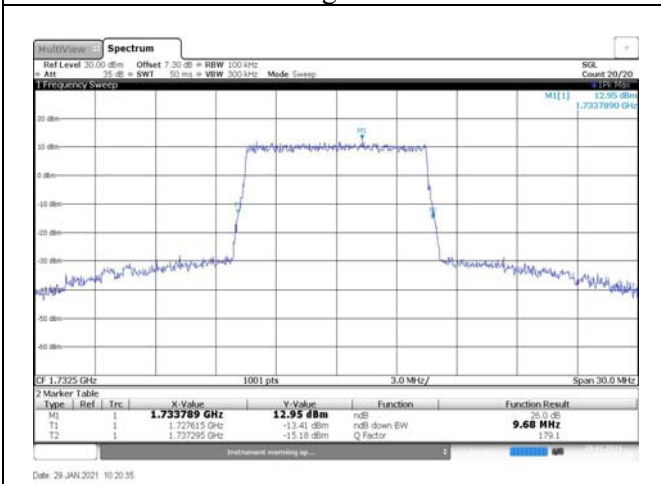


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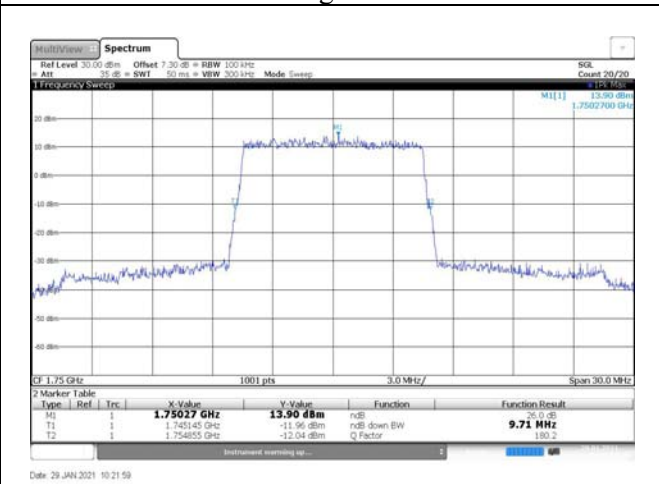


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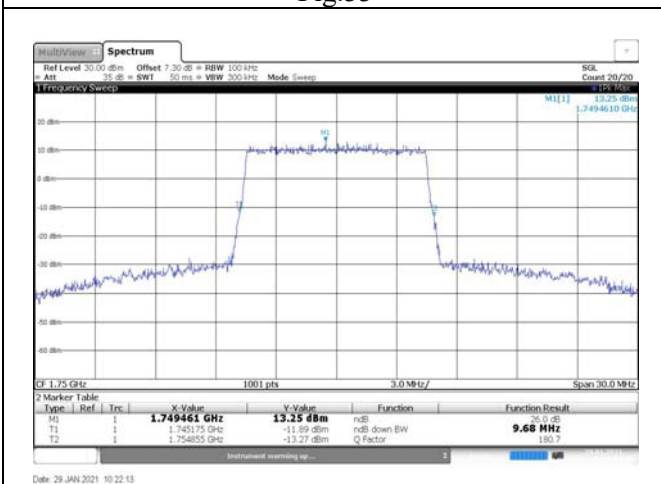


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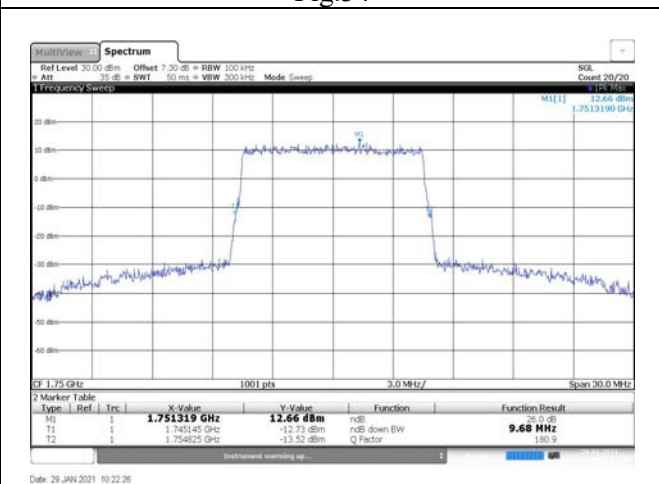


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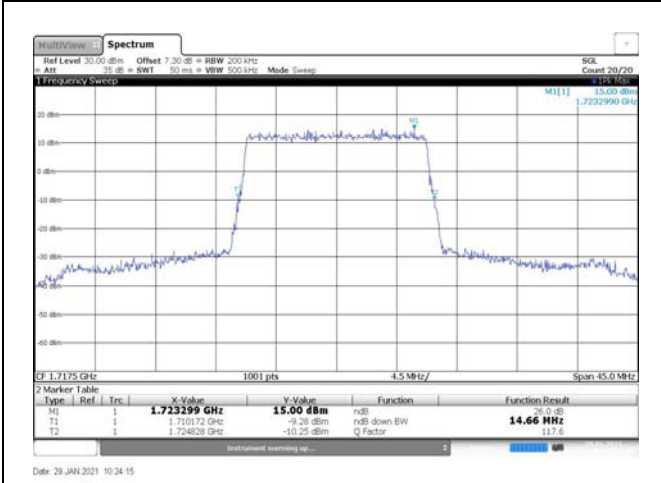


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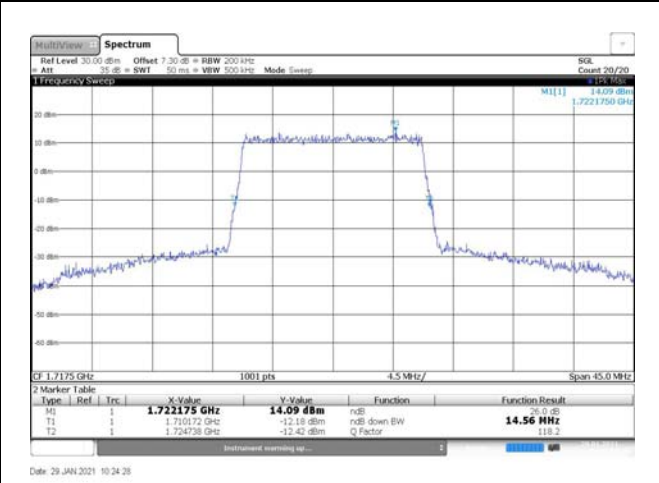


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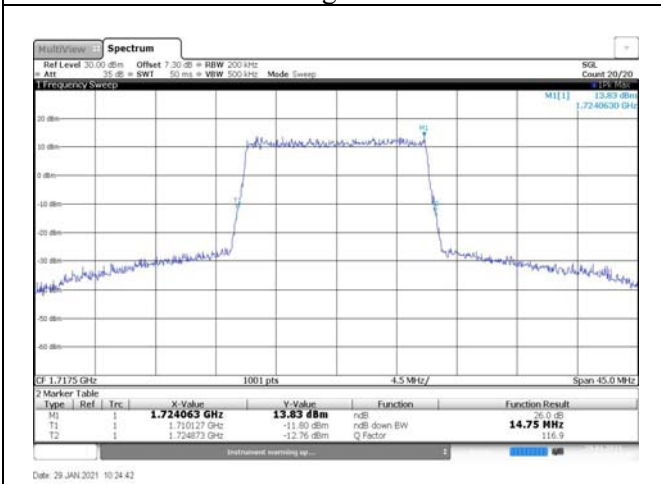


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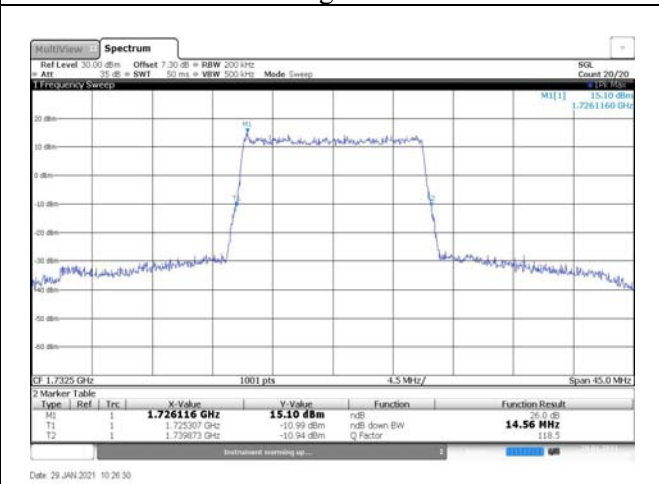


Fig.40

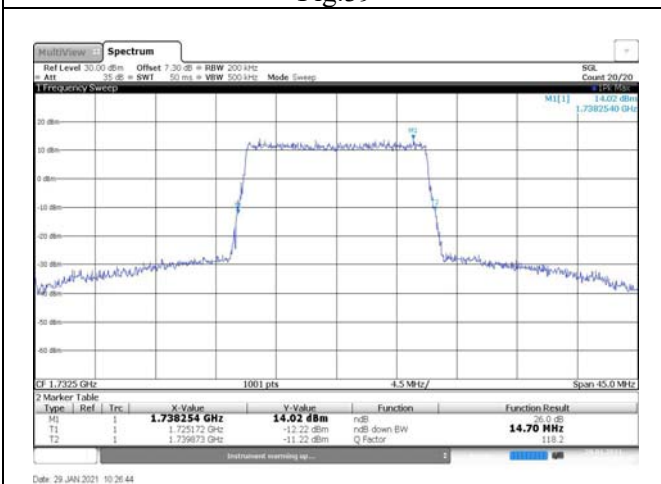


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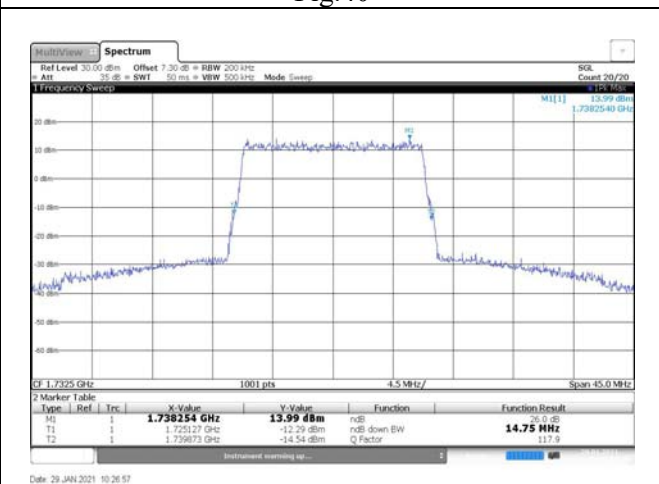


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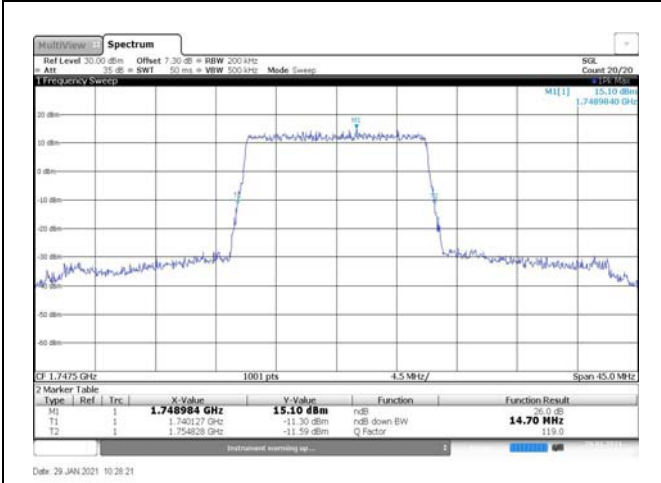


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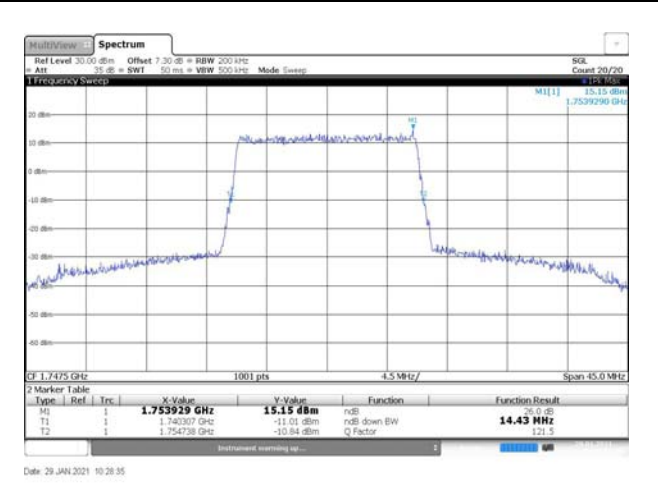


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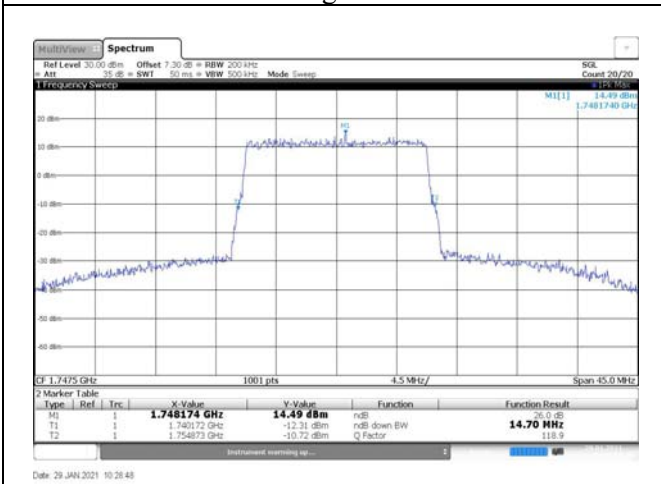


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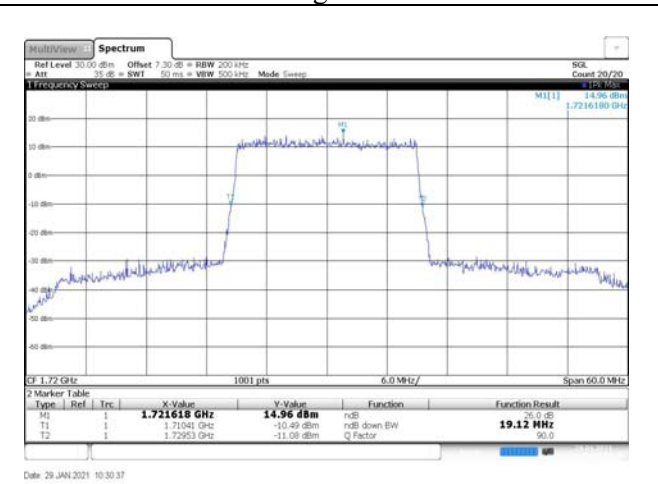


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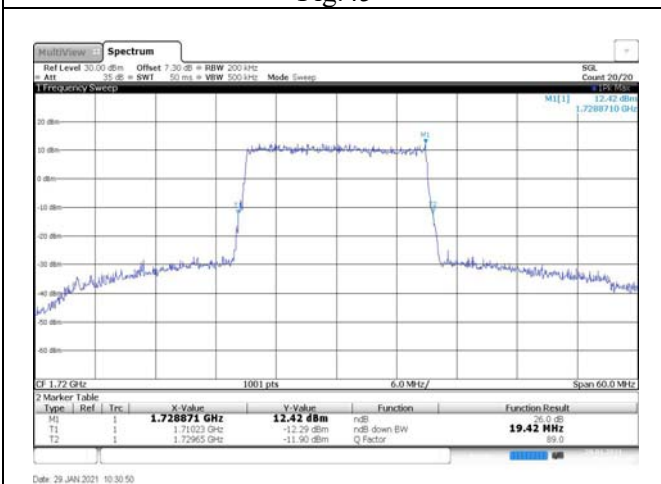


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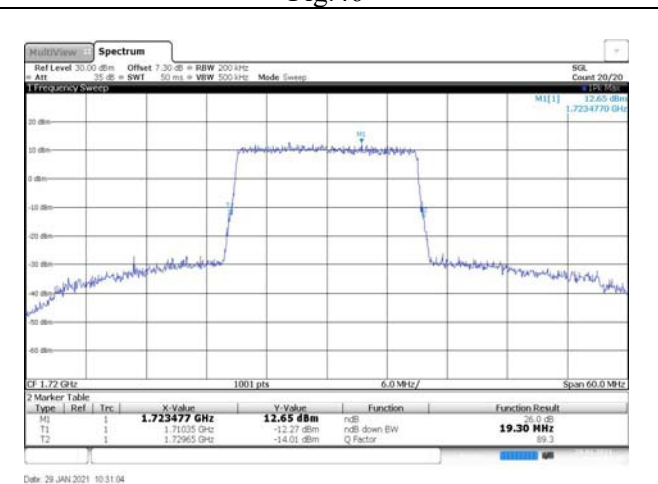


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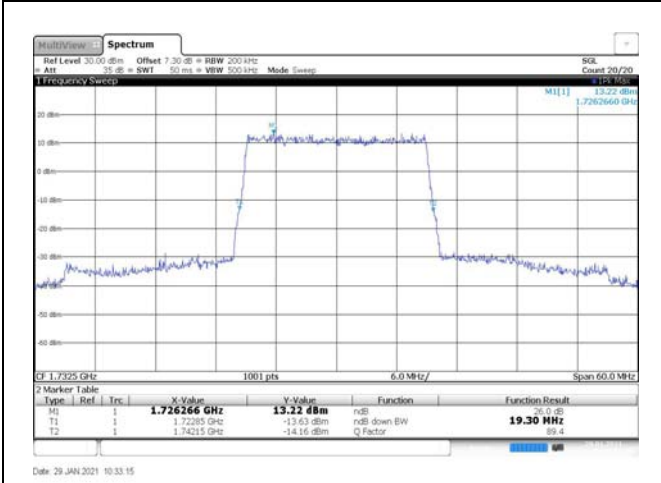


Fig.49

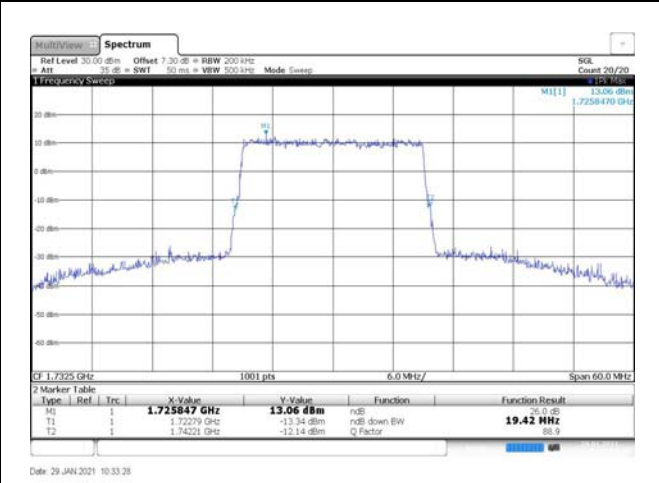


Fig.50

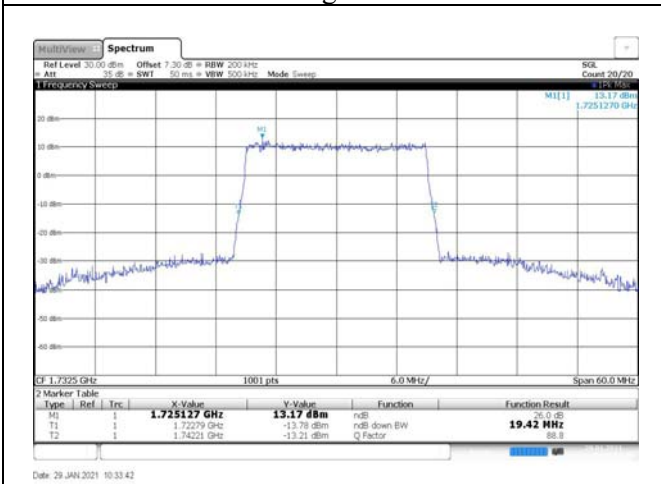


Fig.51

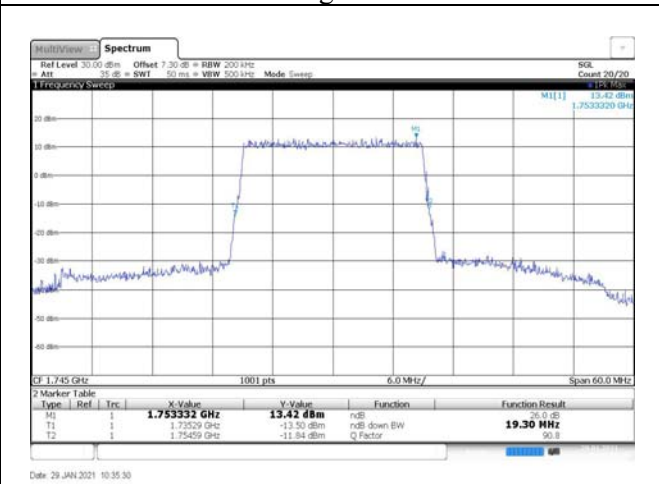


Fig.52

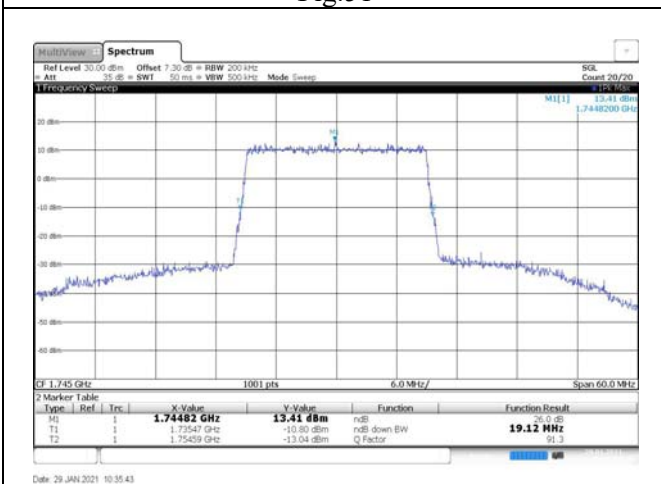


Fig.53

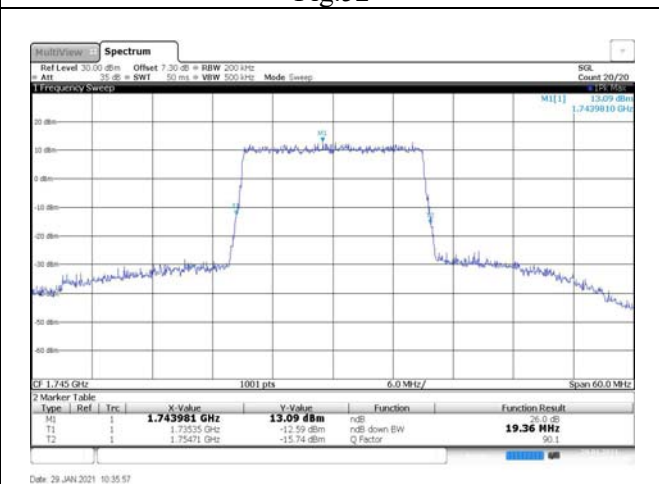


Fig.54

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
4	1710.7	19957	1.4	1	5	Fig.1	Fig.2	Fig.3
	1710.7	19957		6	0	Fig.4	Fig.5	Fig.6
	1732.5	20175		1	5	Fig.7	Fig.8	Fig.9
	1732.5	20175		6	0	Fig.10	Fig.11	Fig.12
	1754.3	20393		1	5	Fig.13	Fig.14	Fig.15
	1754.3	20393		6	0	Fig.16	Fig.17	Fig.18
	1711.5	19965	3	1	14	Fig.19	Fig.20	Fig.21
	1711.5	19965		15	0	Fig.22	Fig.23	Fig.24
	1732.5	20175		1	14	Fig.25	Fig.26	Fig.27
	1732.5	20175		15	0	Fig.28	Fig.29	Fig.30
	1753.5	20385		1	14	Fig.31	Fig.32	Fig.33
	1753.5	20385		15	0	Fig.34	Fig.35	Fig.36
	1712.5	19975	5	1	24	Fig.37	Fig.38	Fig.39
	1712.5	19975		25	0	Fig.40	Fig.41	Fig.42
	1732.5	20175		1	24	Fig.43	Fig.44	Fig.45
	1732.5	20175		25	0	Fig.46	Fig.47	Fig.48
	1752.5	20375		1	24	Fig.49	Fig.50	Fig.51
	1752.5	20375		25	0	Fig.52	Fig.53	Fig.54
	1715	20000	10	1	49	Fig.55	Fig.56	Fig.57
	1715	20000		50	0	Fig.58	Fig.59	Fig.60
	1732.5	20175		1	49	Fig.61	Fig.62	Fig.63
	1732.5	20175		50	0	Fig.64	Fig.65	Fig.66
	1750	20350		1	49	Fig.67	Fig.68	Fig.69
	1750	20350		50	0	Fig.70	Fig.71	Fig.72
	1717.5	20025	15	1	74	Fig.73	Fig.74	Fig.75
	1717.5	20025		75	0	Fig.76	Fig.77	Fig.78
	1732.5	20175		1	74	Fig.79	Fig.80	Fig.81
	1732.5	20175		75	0	Fig.82	Fig.83	Fig.84
	1747.5	20325		1	74	Fig.85	Fig.86	Fig.87
	1747.5	20325		75	0	Fig.88	Fig.89	Fig.90
1720	20050	20	1	99	Fig.91	Fig.92	Fig.93	
1720	20050		100	0	Fig.94	Fig.95	Fig.96	
1732.5	20175		1	99	Fig.97	Fig.98	Fig.99	
1732.5	20175		100	0	Fig.100	Fig.101	Fig.102	
1745	20300		1	99	Fig.103	Fig.104	Fig.105	
1745	20300		100	0	Fig.106	Fig.107	Fig.108	

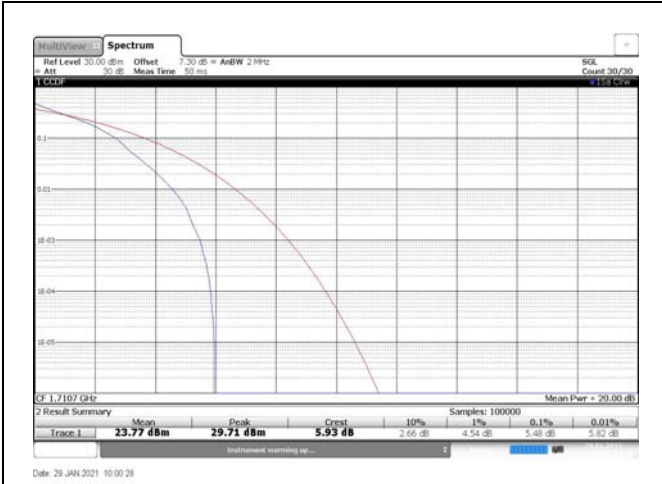


Fig.1

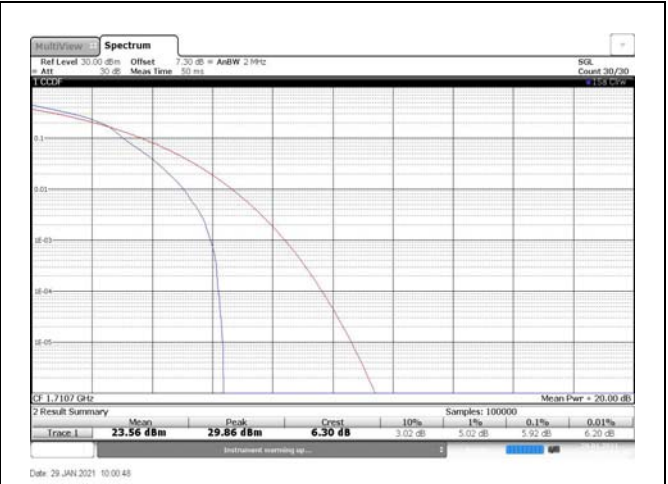


Fig.2

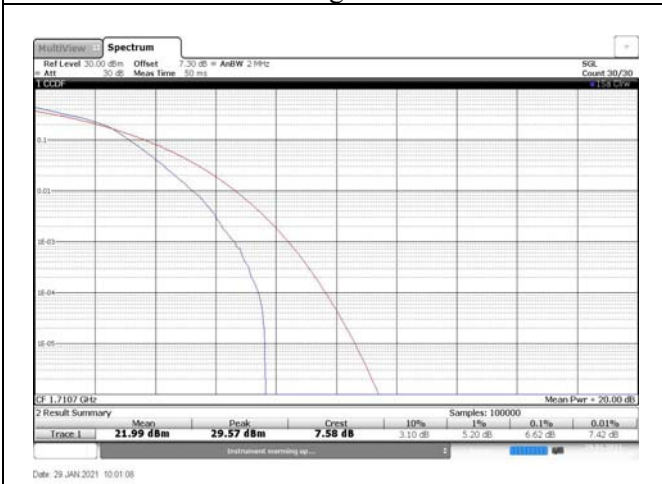


Fig.3

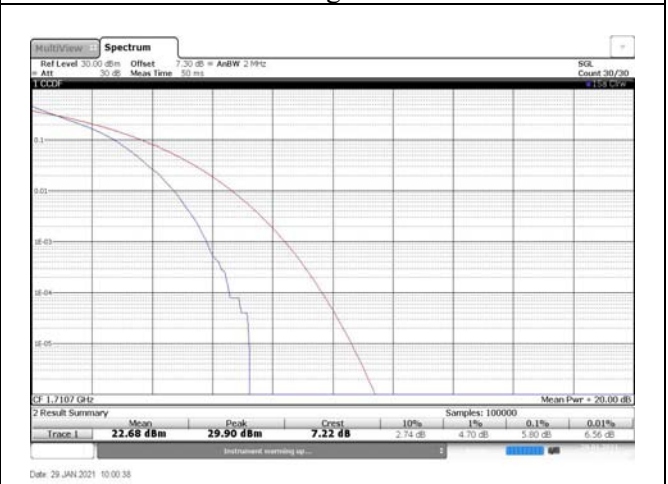


Fig.4

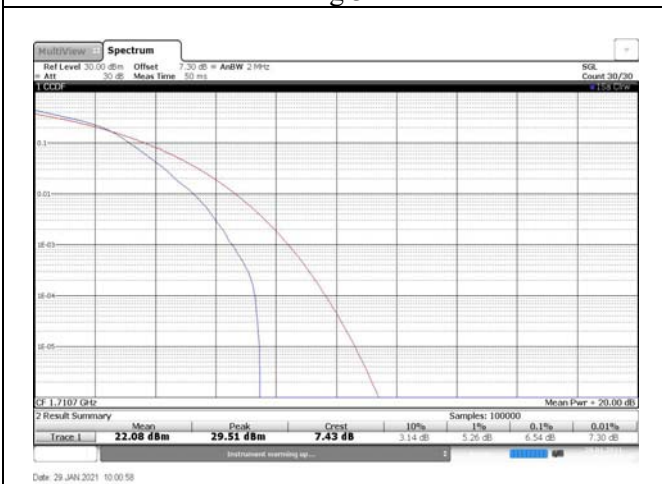


Fig.5

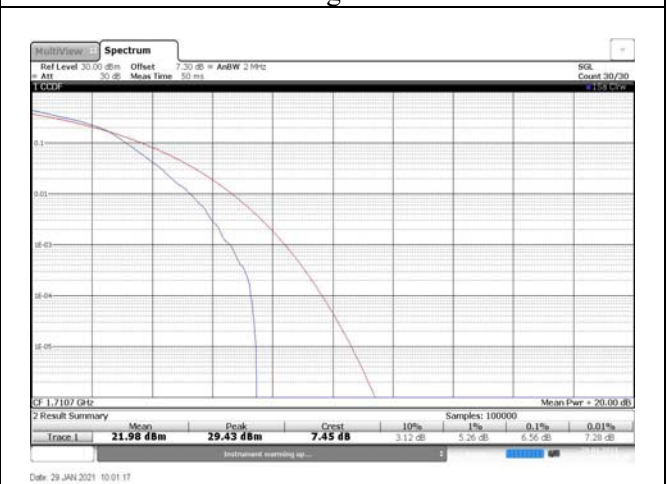


Fig.6

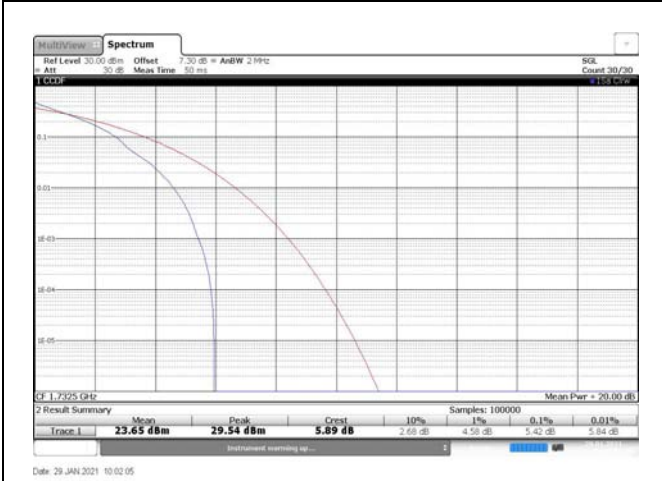


Fig.7

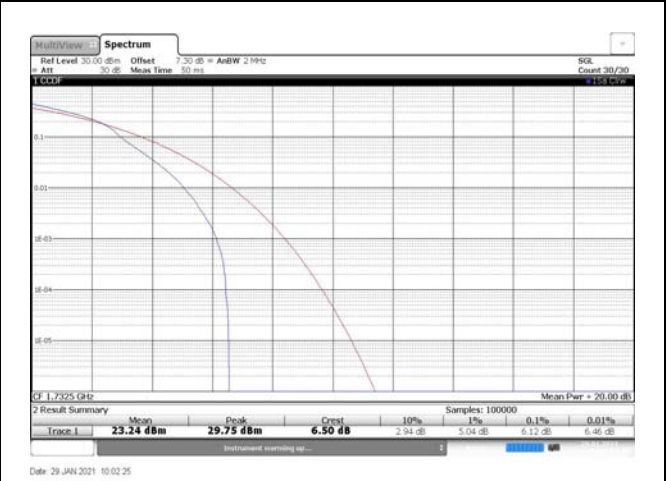


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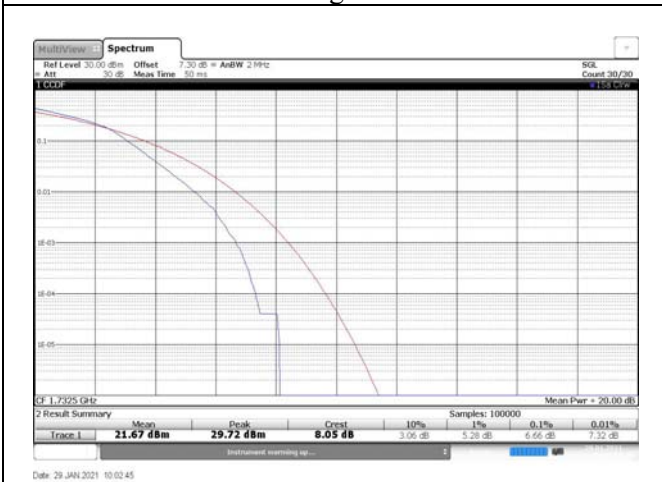


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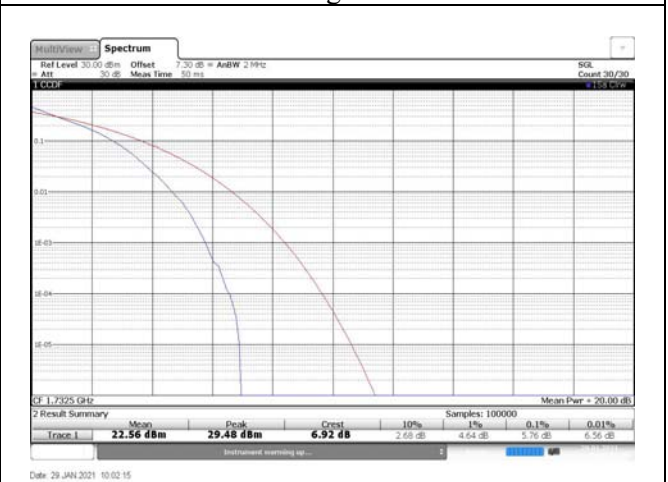


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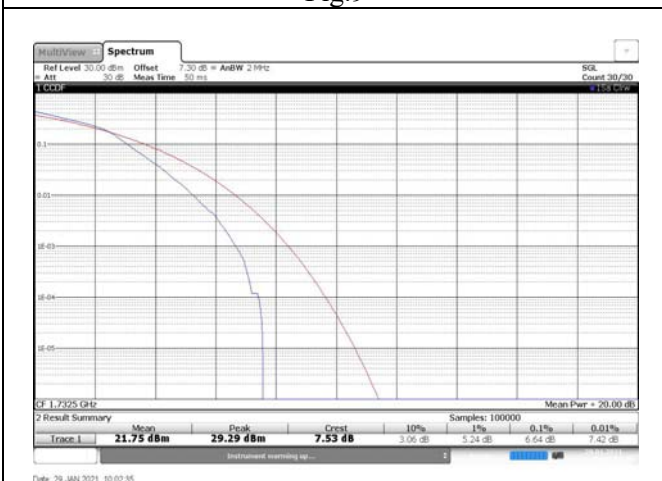


Fig.11

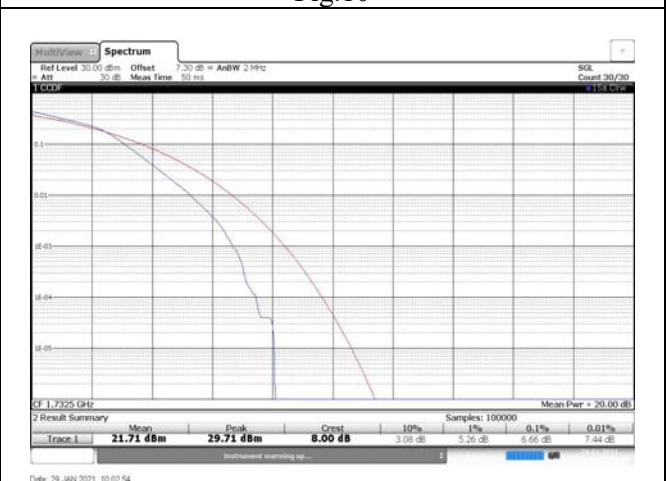


Fig.12

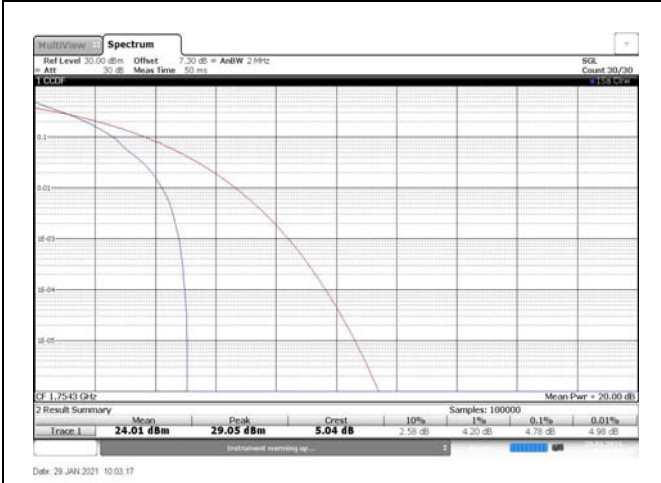


Fig.13

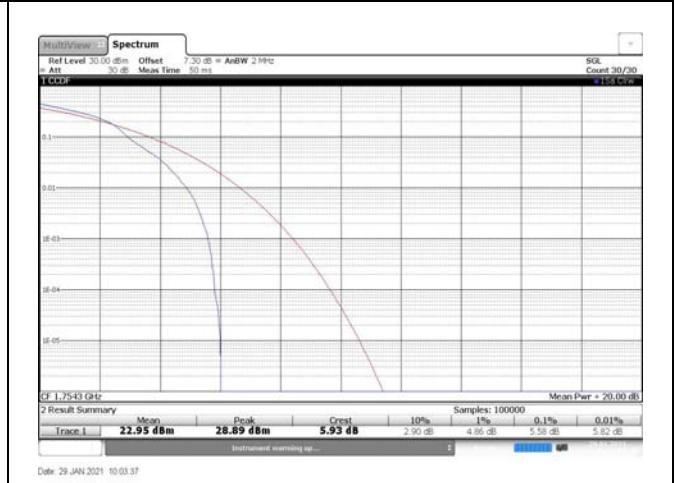


Fig.14

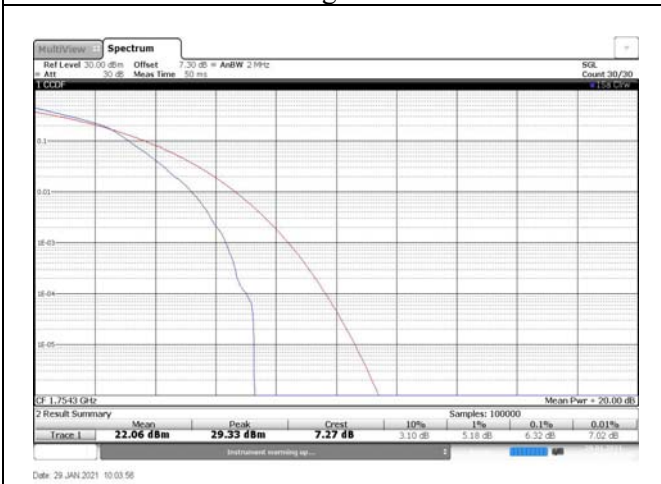


Fig.15

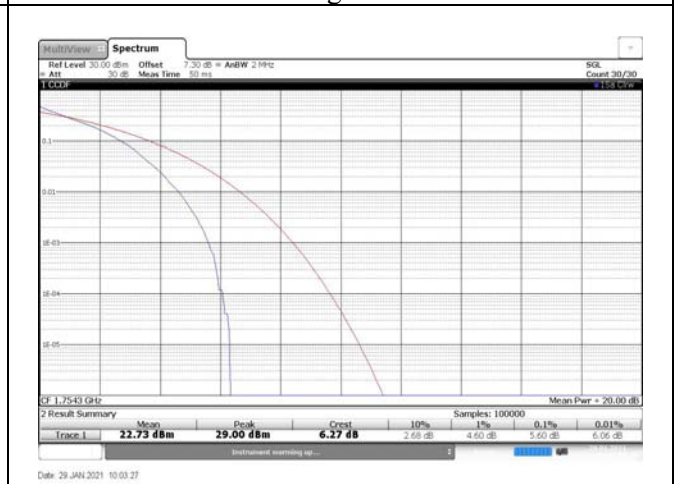


Fig.16

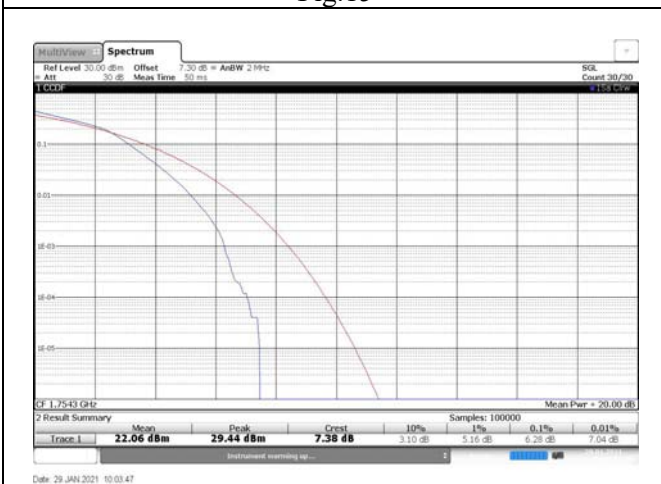


Fig.17

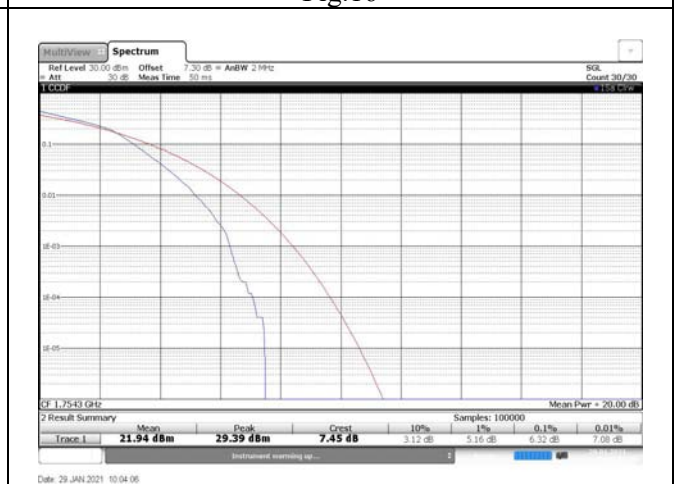


Fig.18

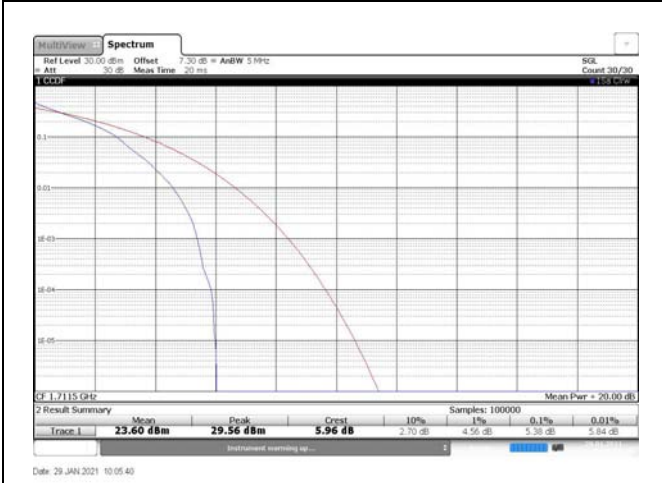


Fig.19

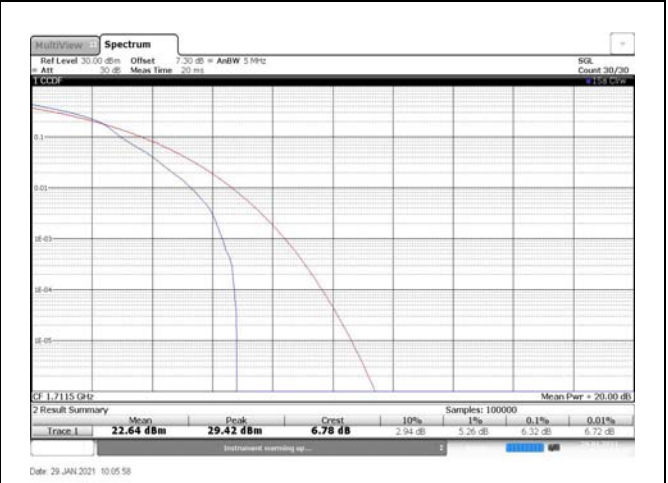


Fig.20

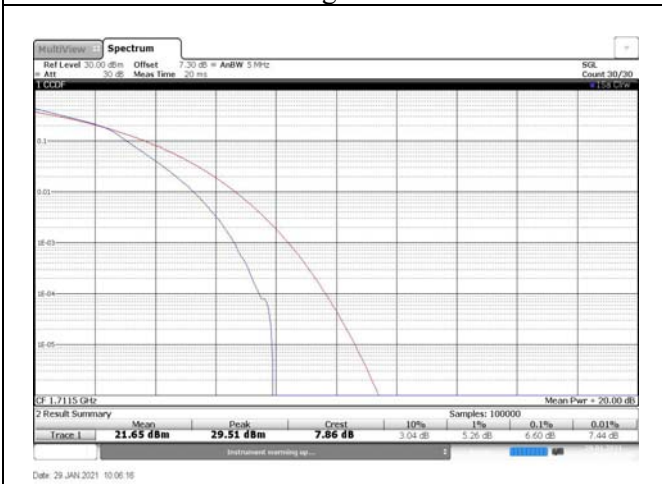


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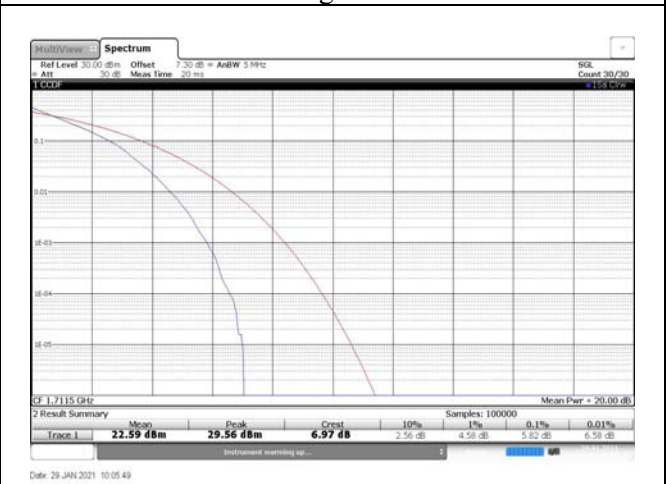


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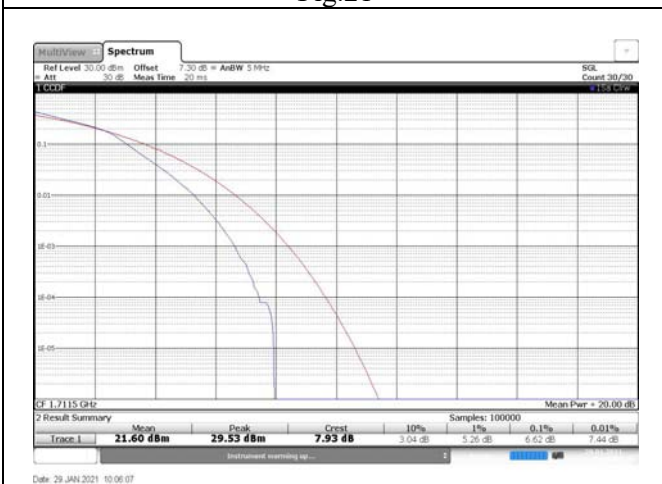


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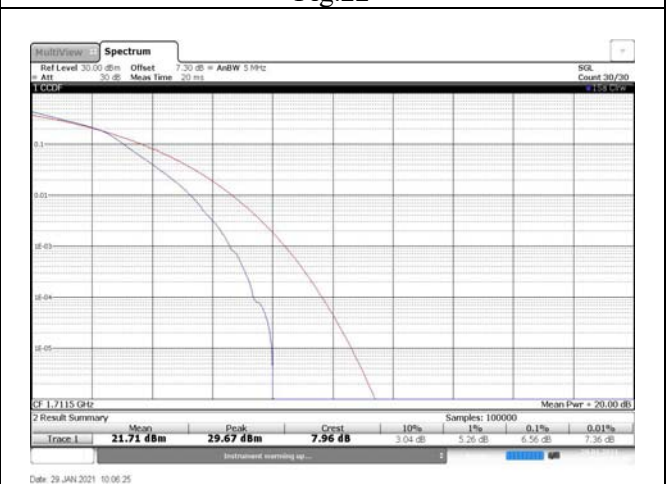


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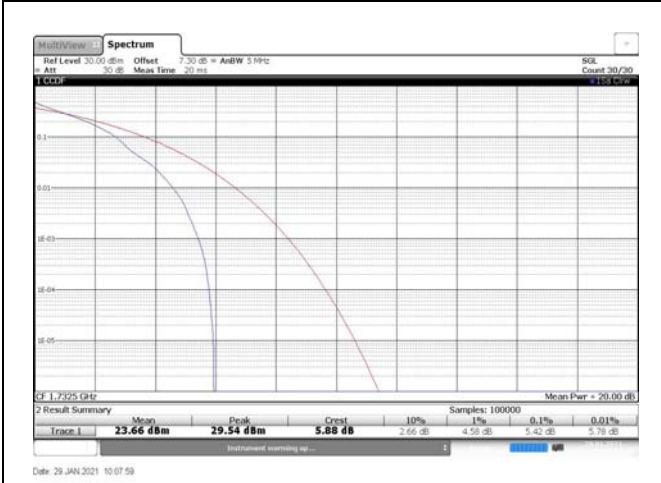


Fig.25

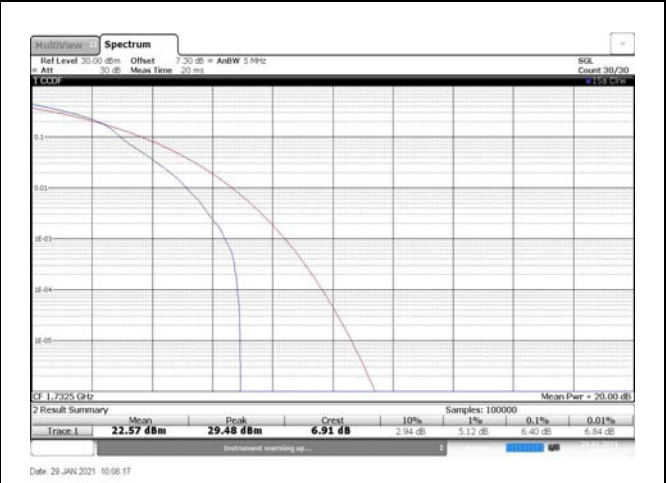


Fig.26

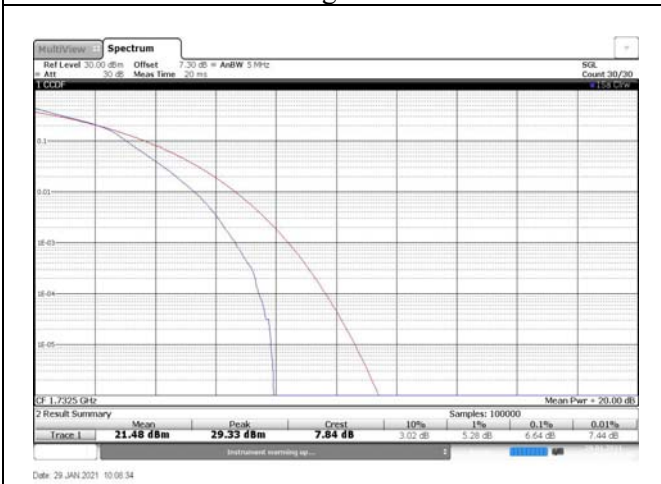


Fig.27

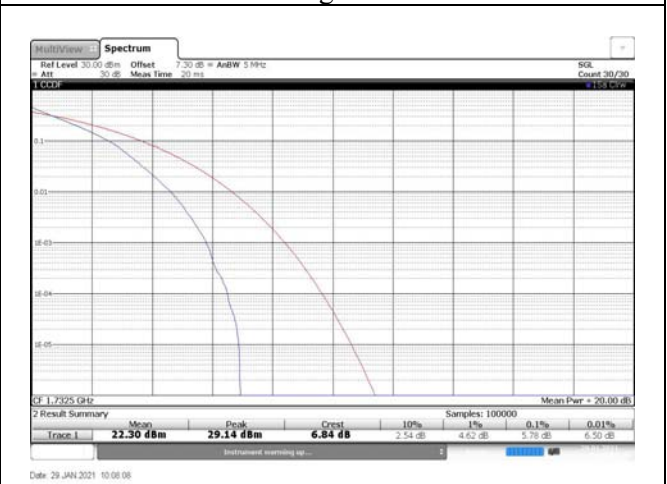


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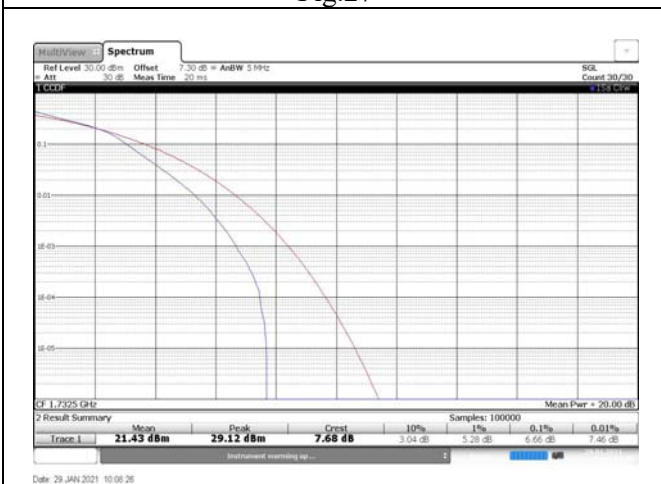


Fig.29

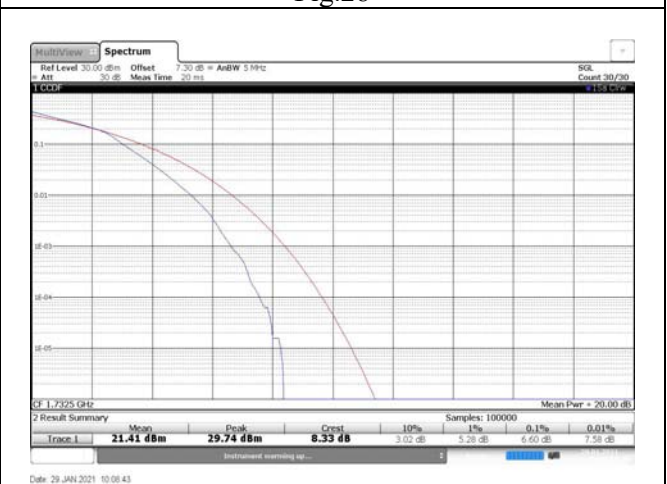


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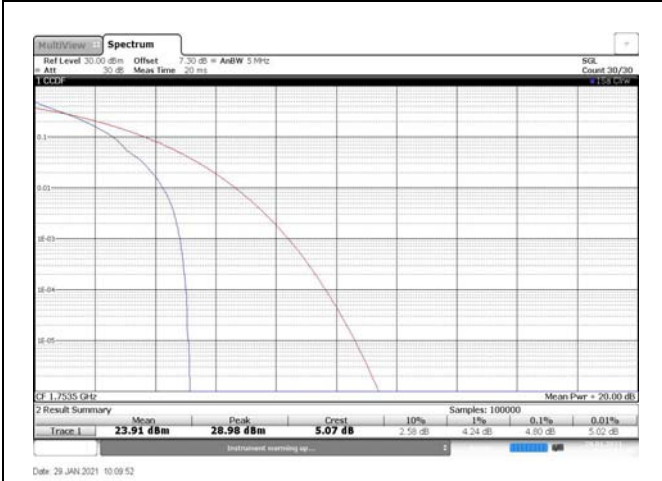


Fig.31

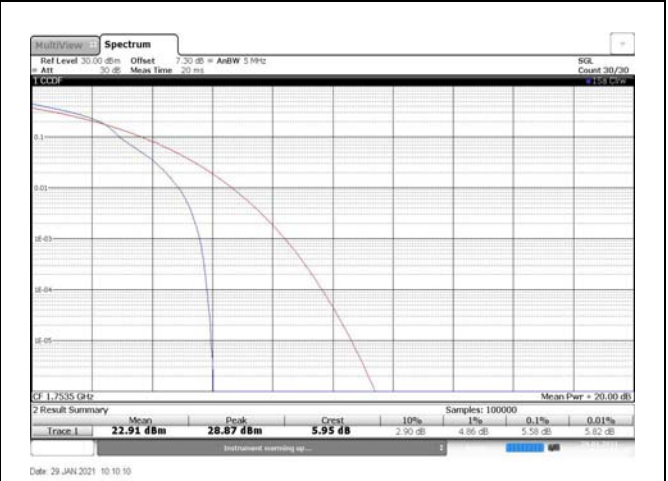


Fig.32

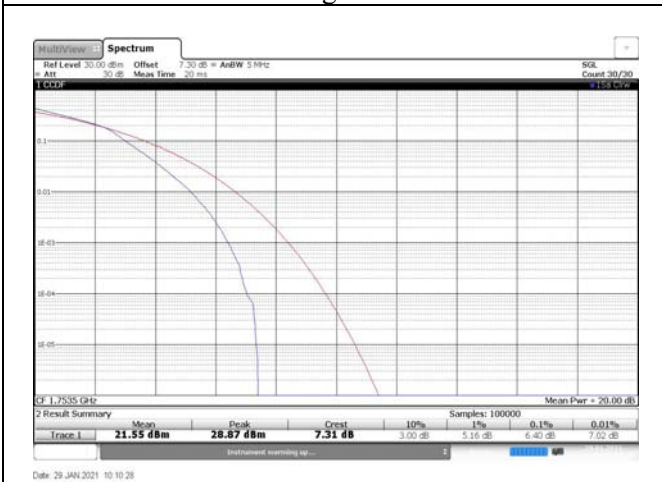


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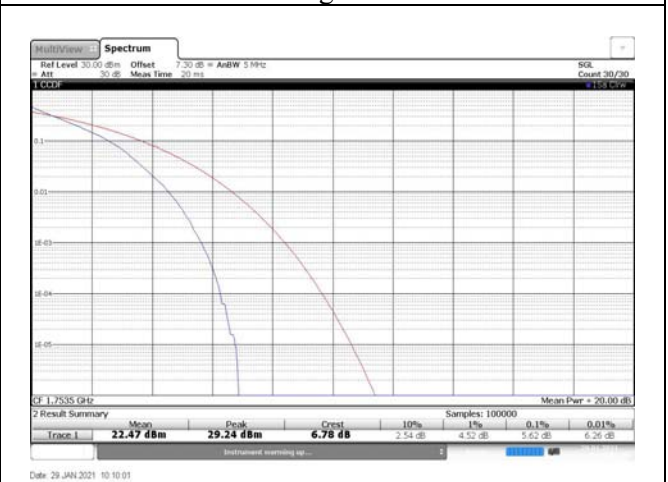


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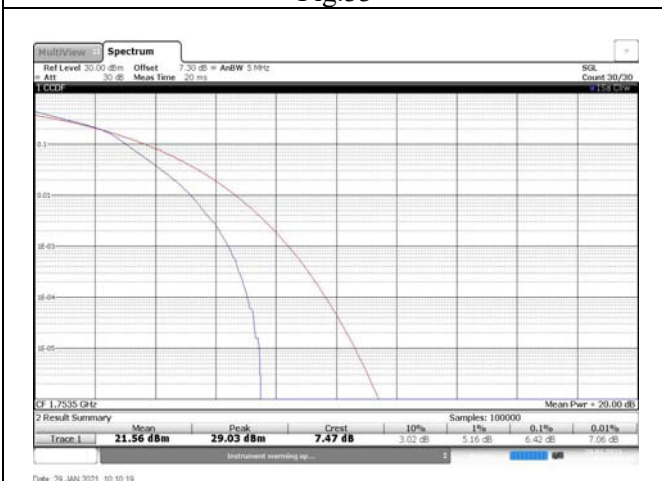


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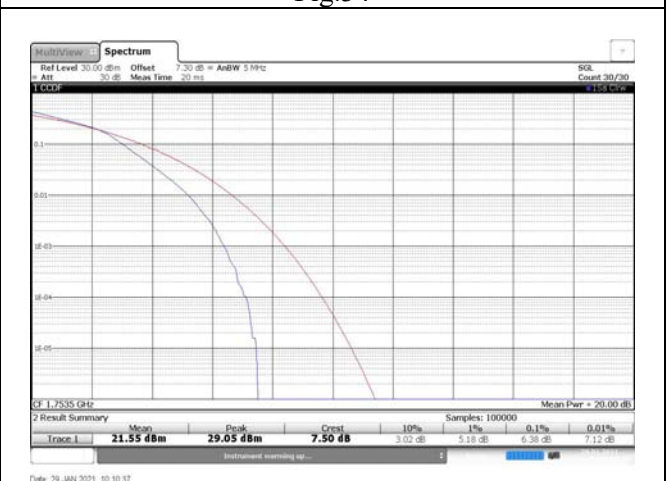


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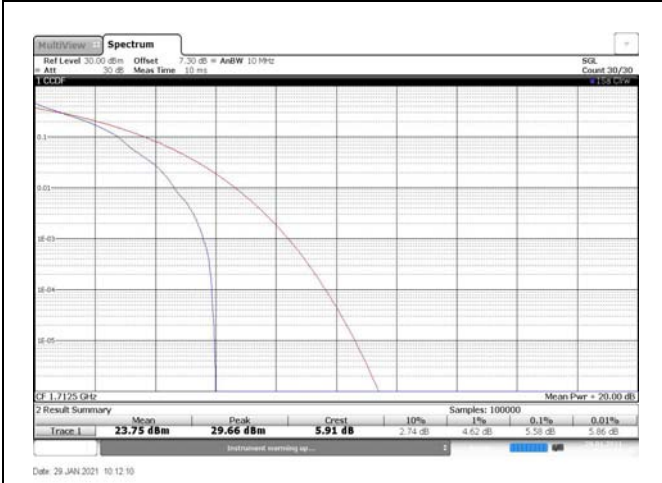


Fig.37

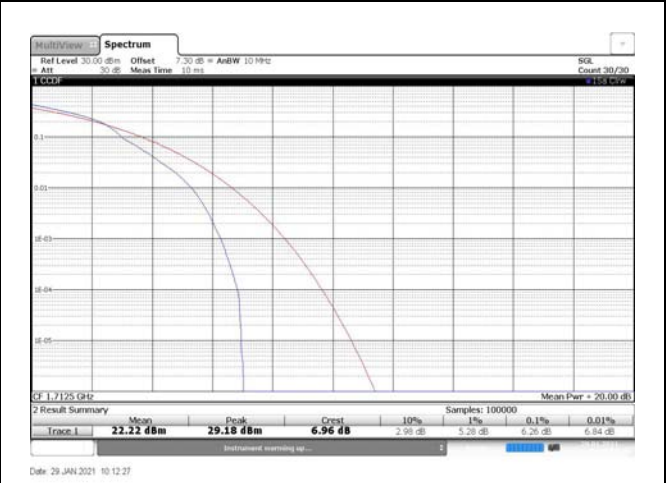


Fig.38

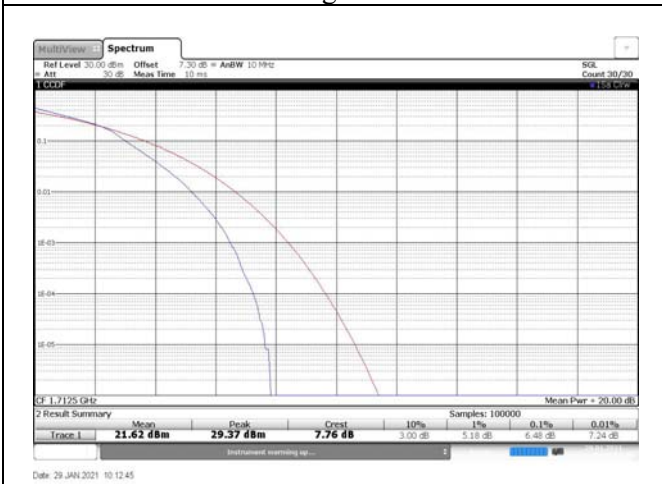


Fig.39

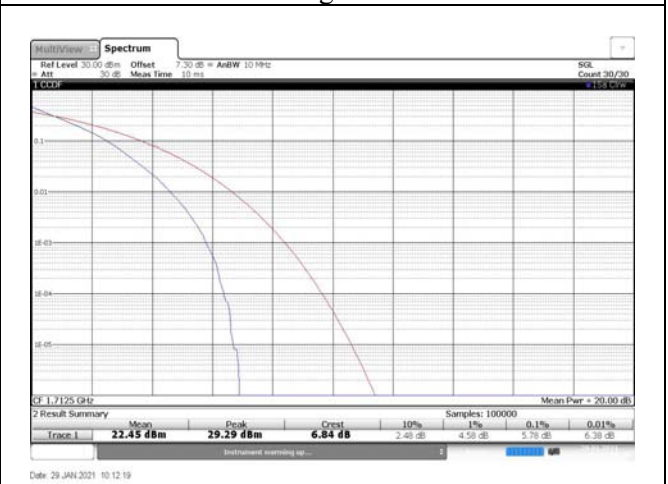


Fig.40

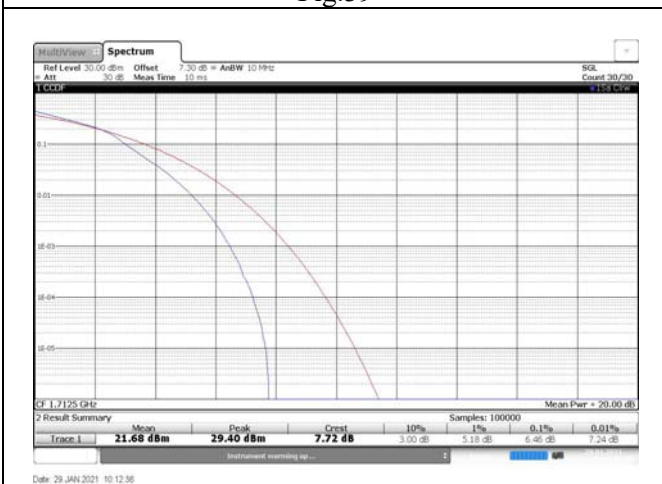


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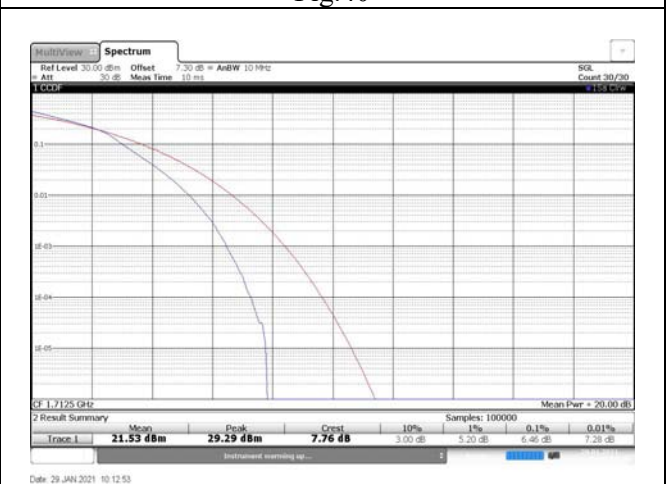


Fig.42

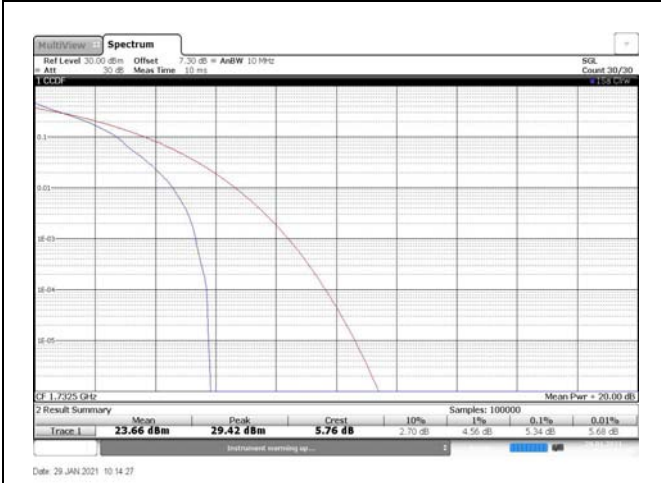


Fig.43

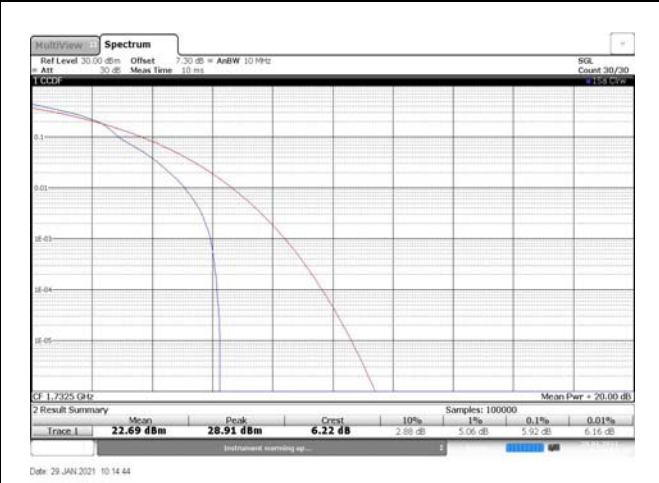


Fig.44

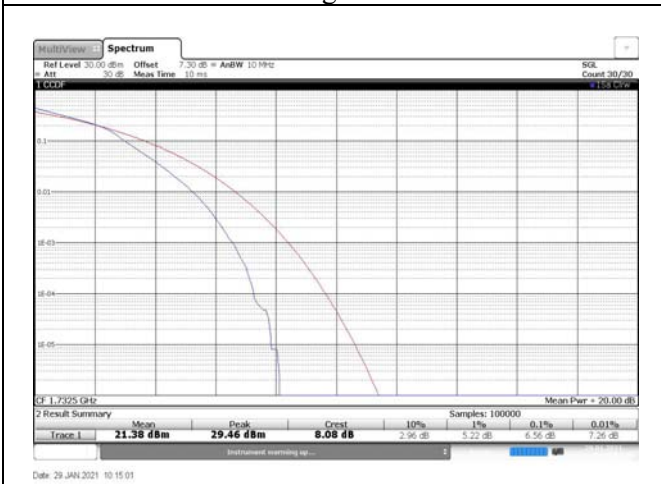


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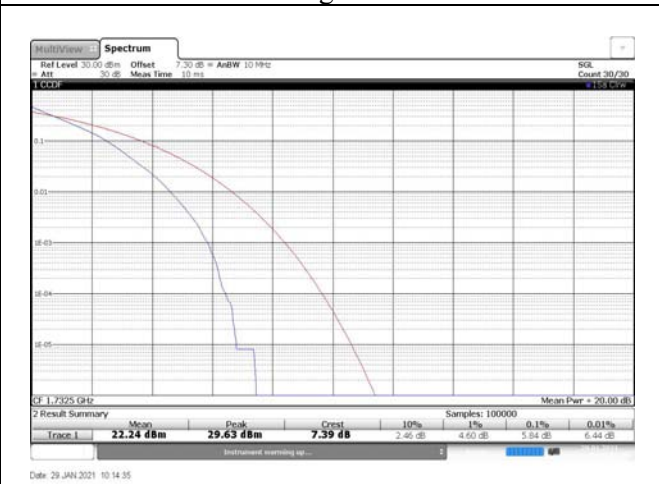


Fig.46

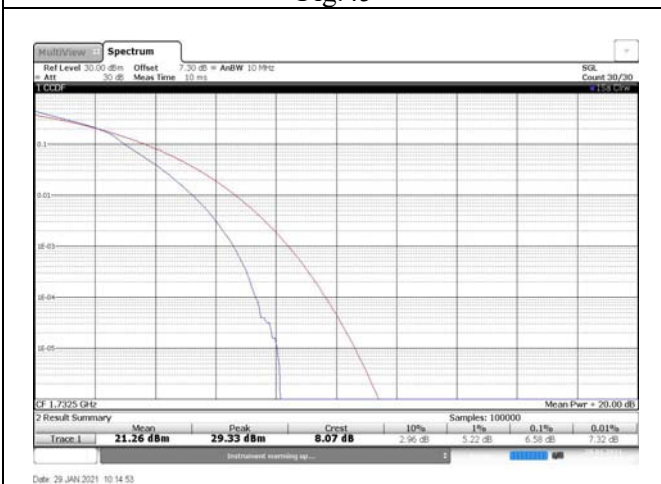


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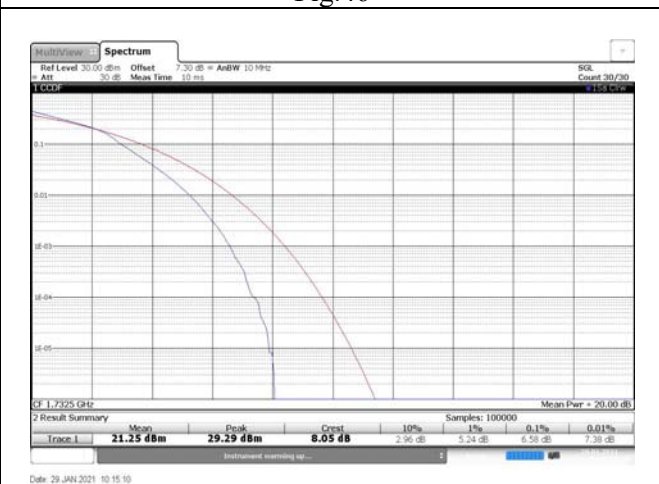


Fig.48

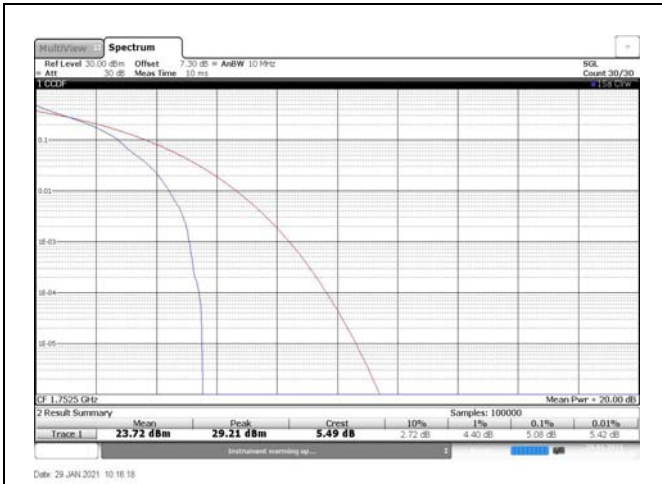


Fig.49

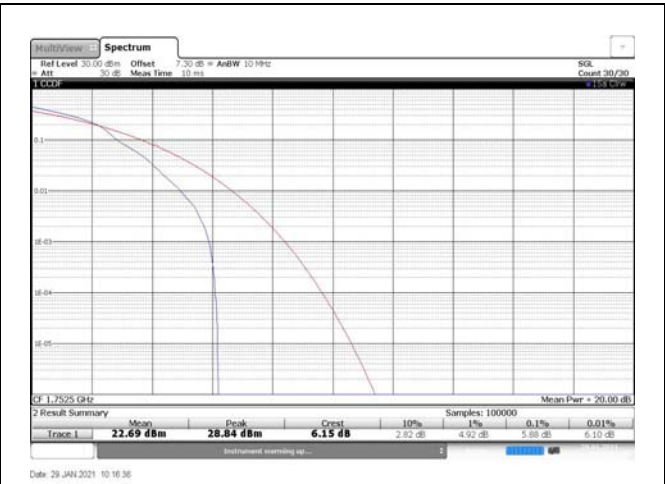


Fig.50

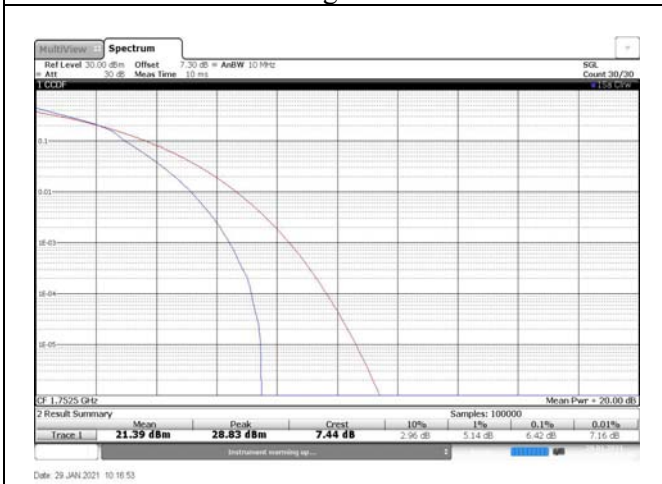


Fig.51

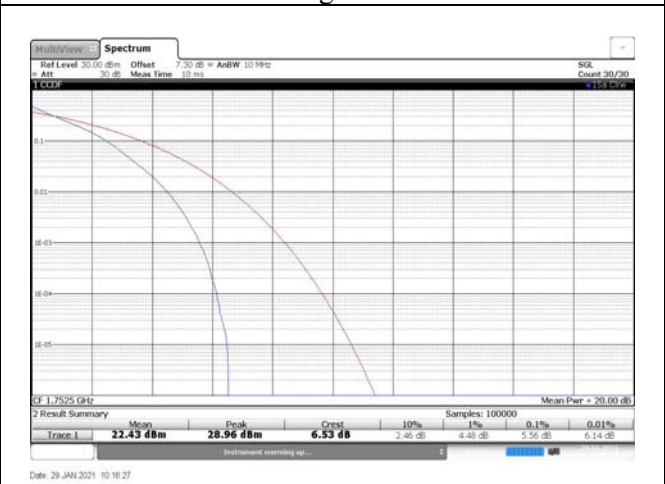


Fig.52

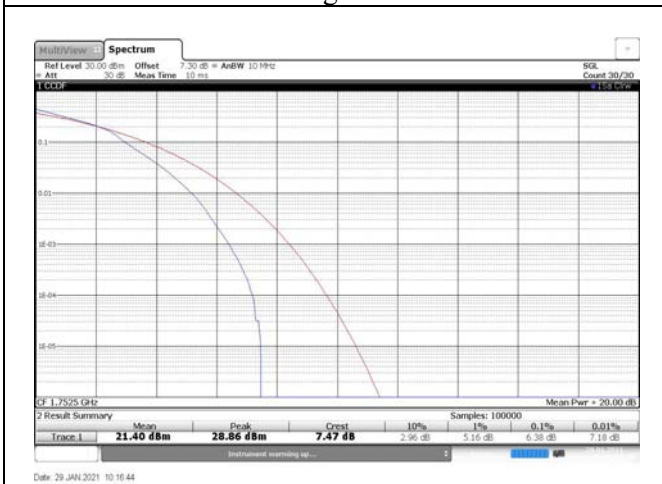


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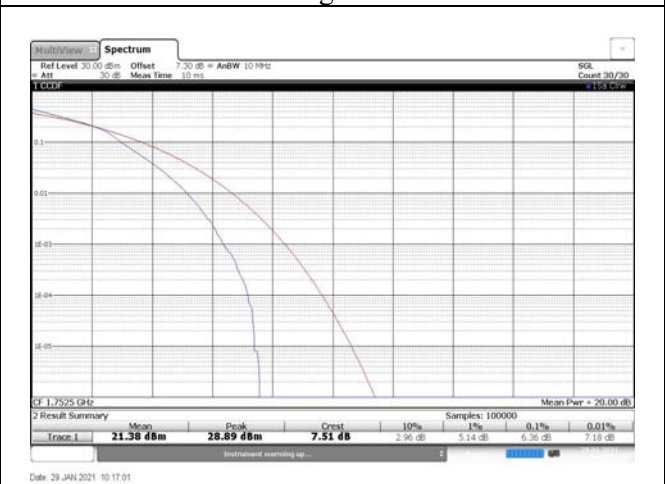


Fig.54

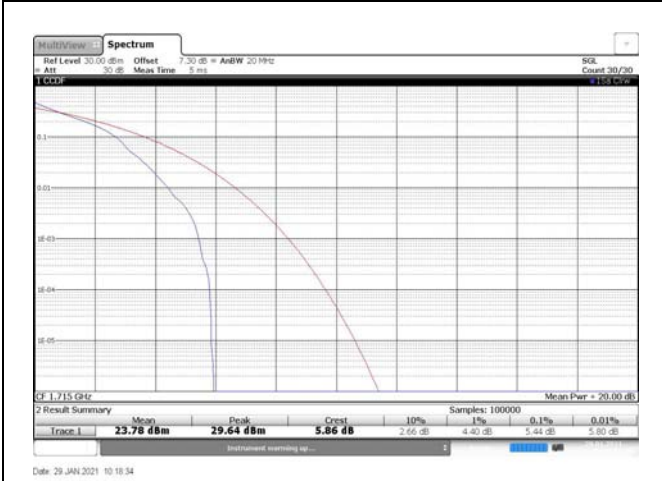


Fig.55

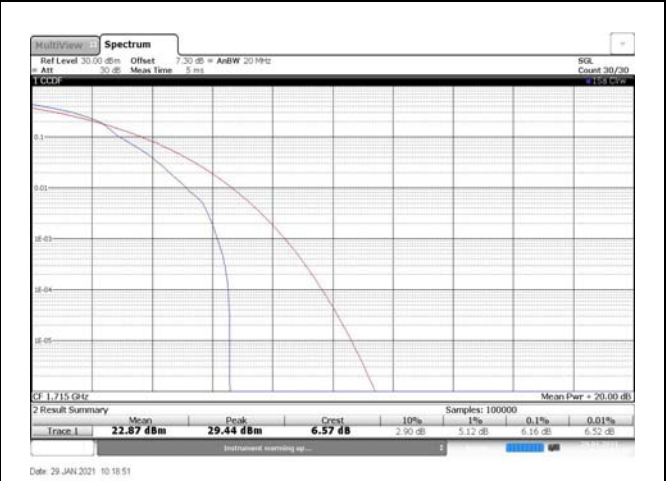


Fig.56

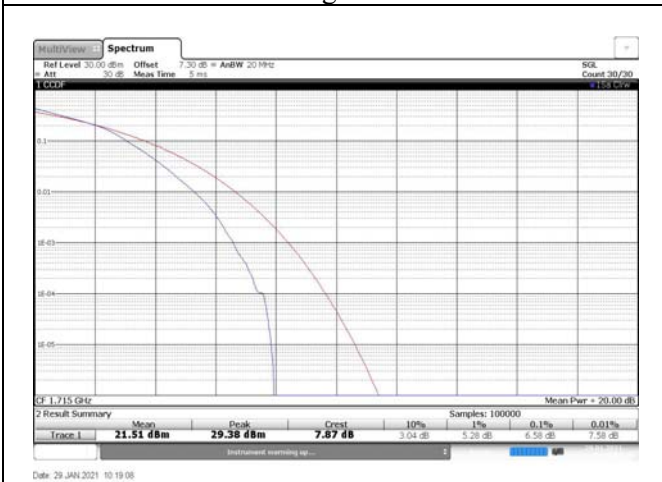


Fig.57

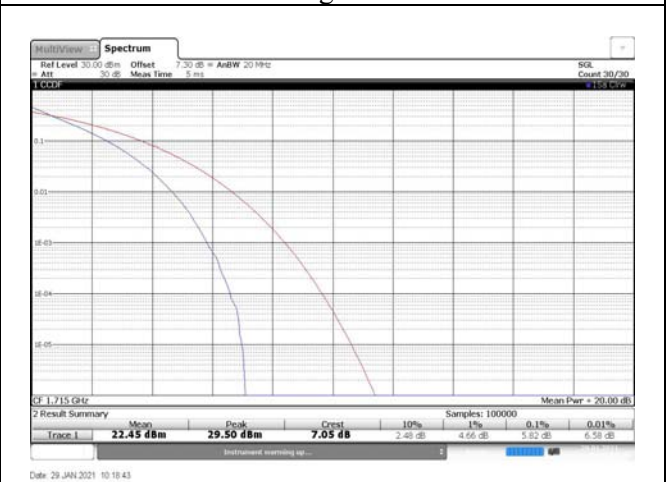


Fig.58

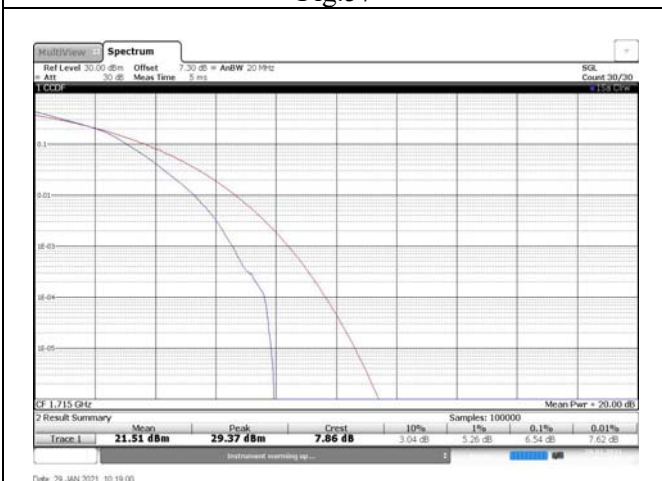


Fig.59

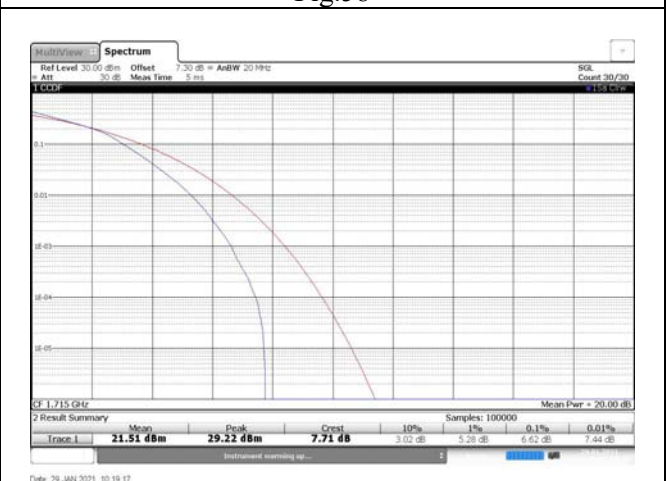


Fig.60

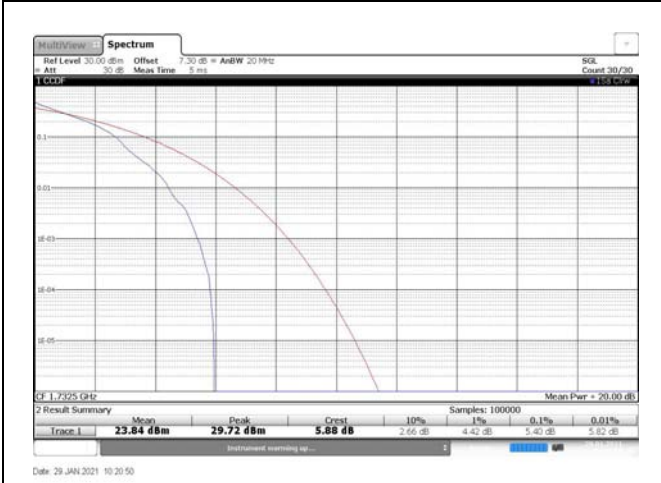


Fig.61

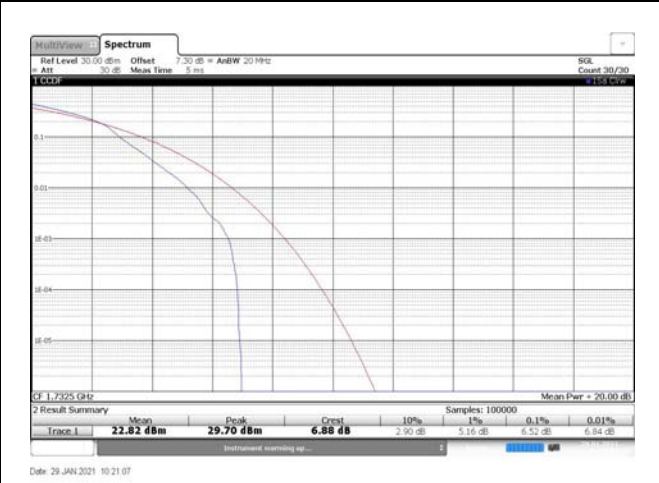


Fig.62

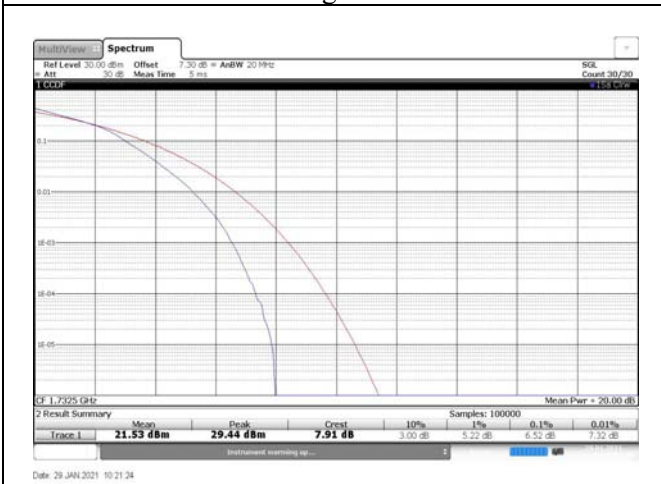


Fig.63

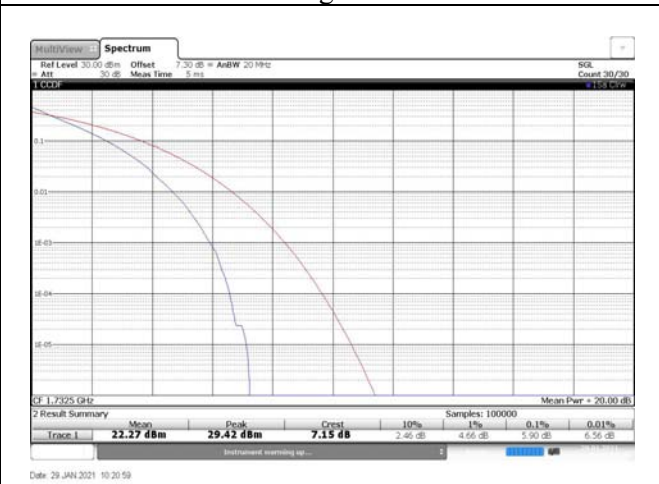


Fig.64

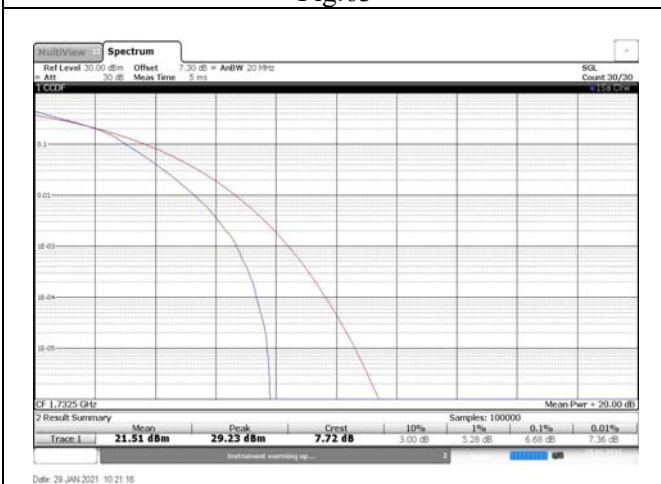


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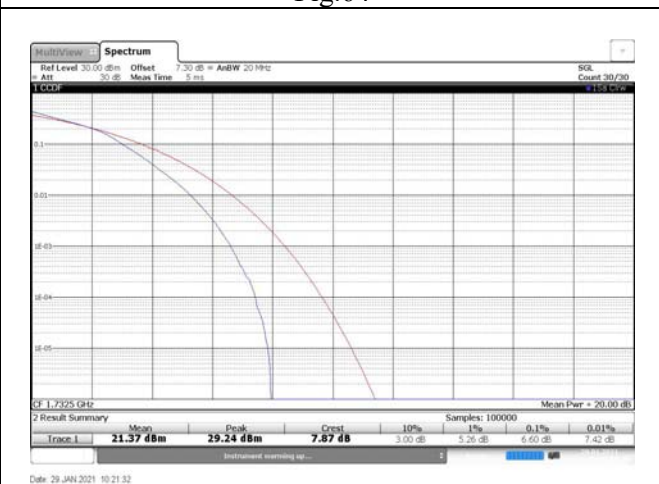


Fig.66

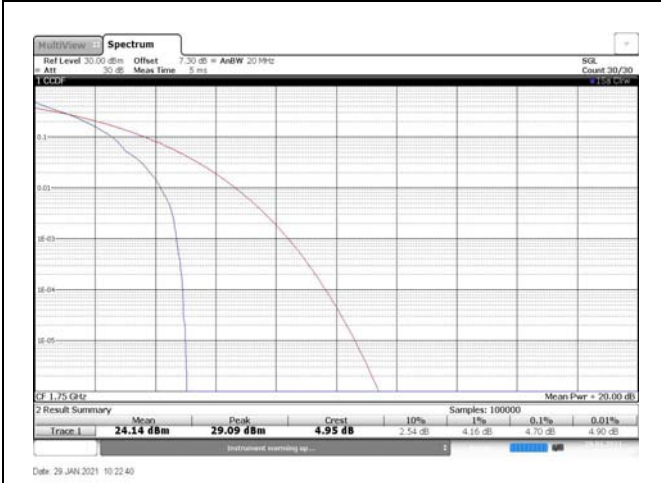


Fig.67

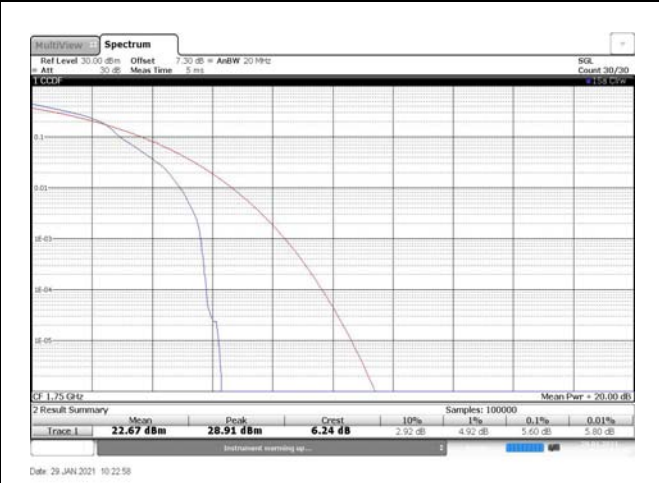


Fig.68

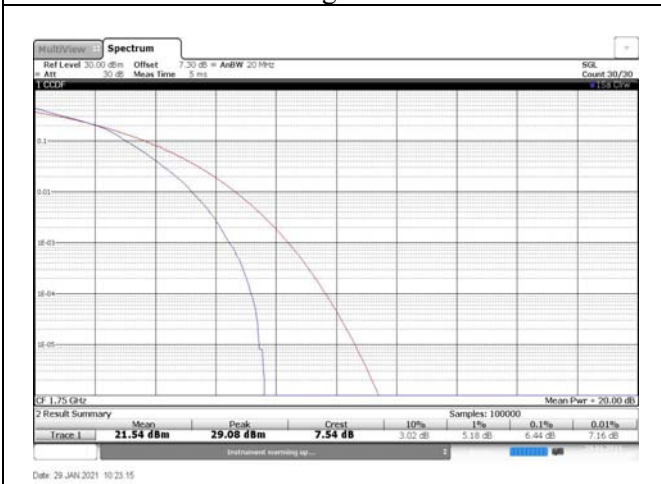


Fig.69

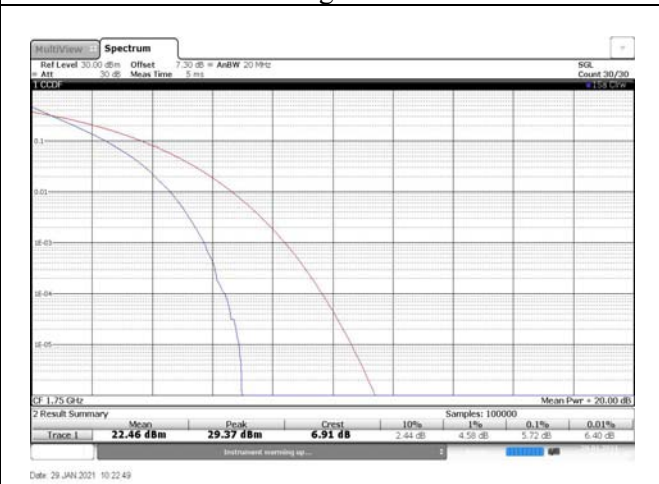


Fig.70

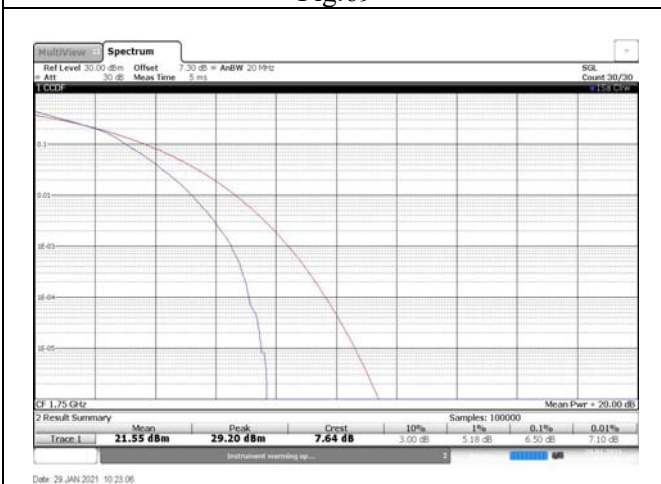


Fig.71

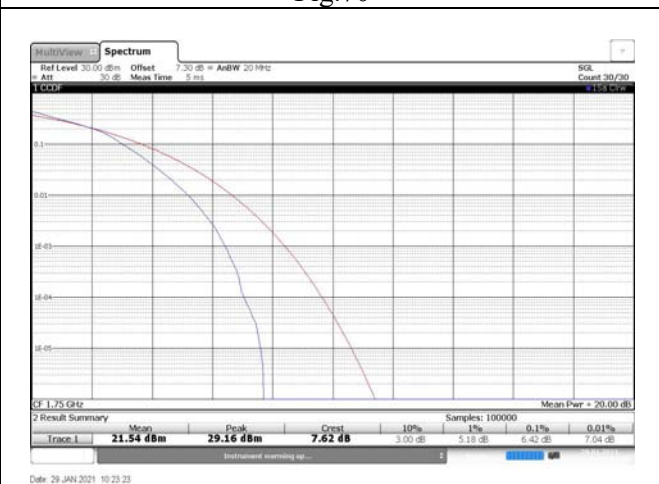


Fig.72

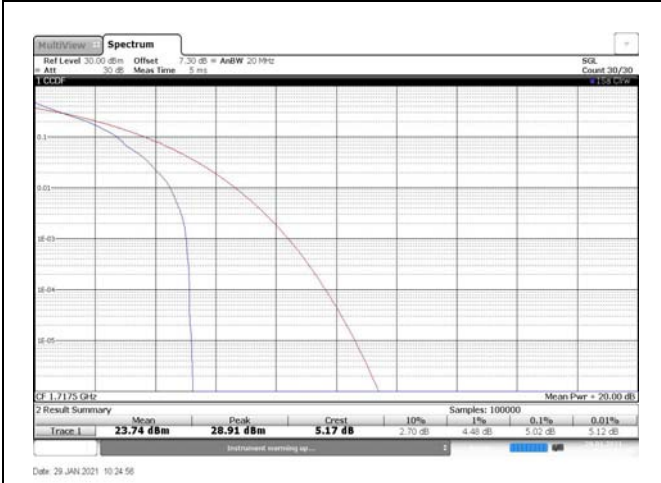


Fig.73

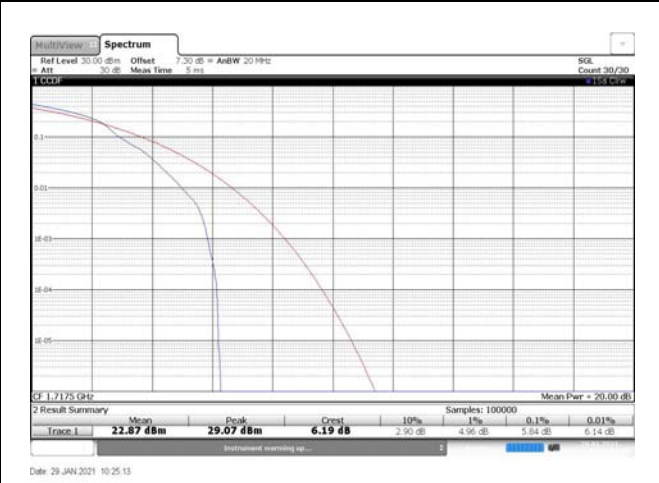


Fig.74

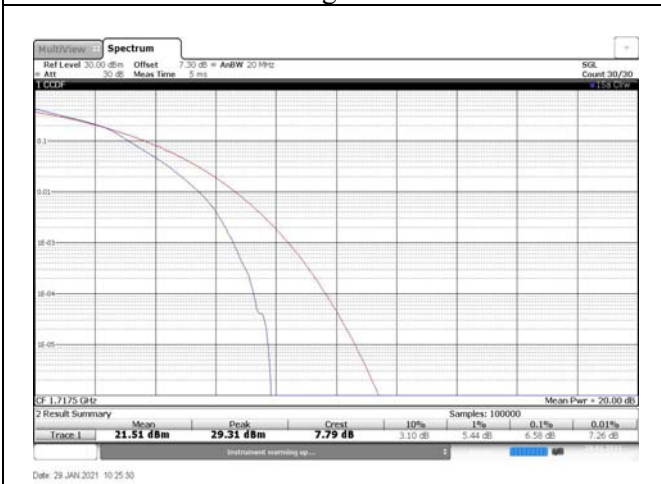


Fig.75

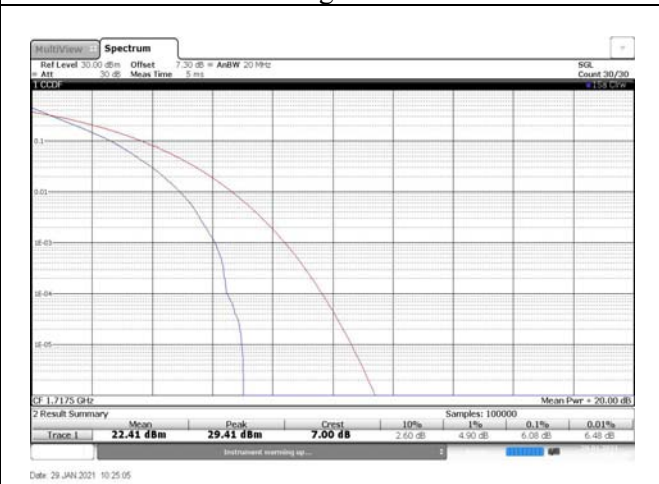


Fig.76

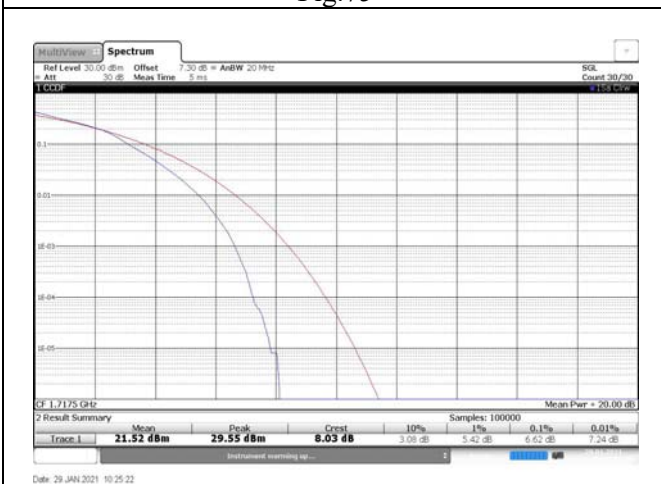


Fig.77

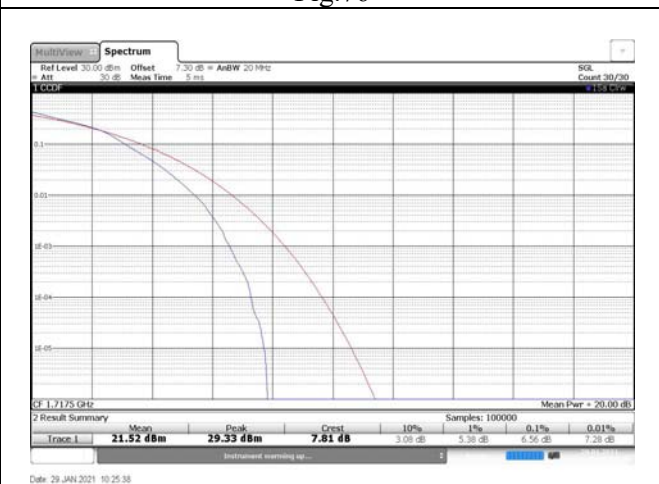


Fig.78

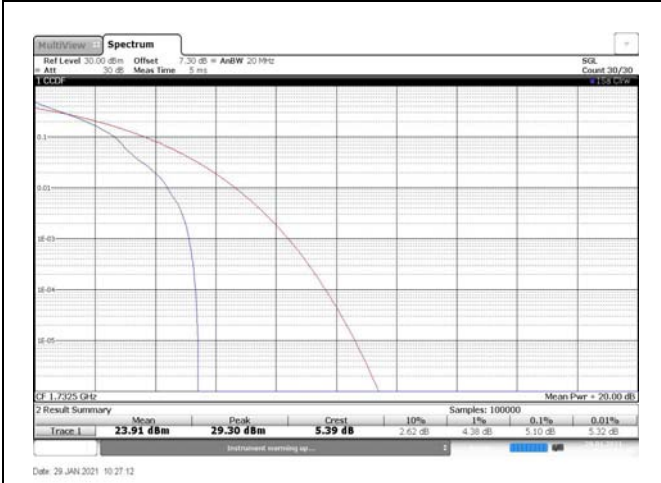


Fig.79

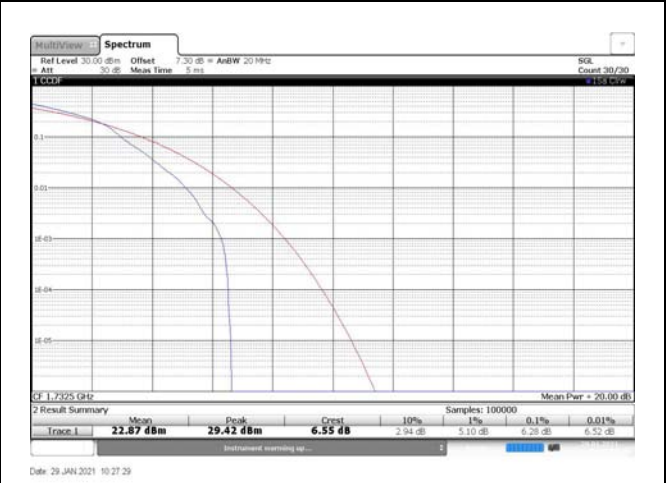


Fig.80

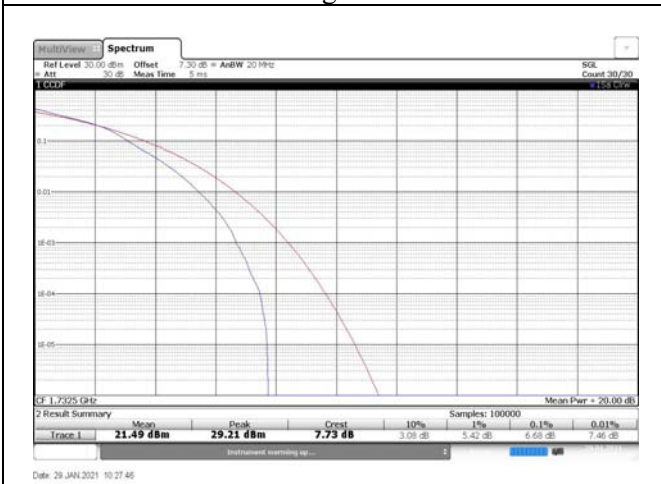


Fig.81

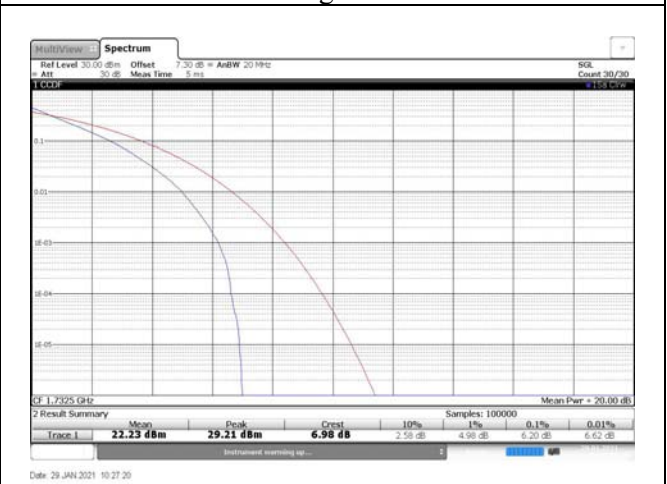


Fig.82

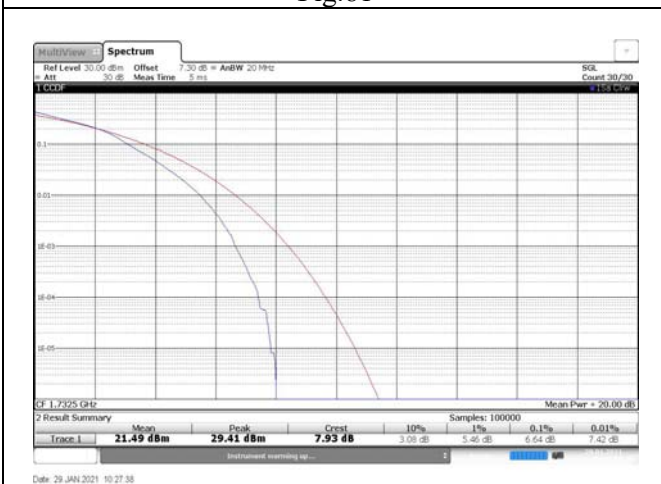


Fig.83

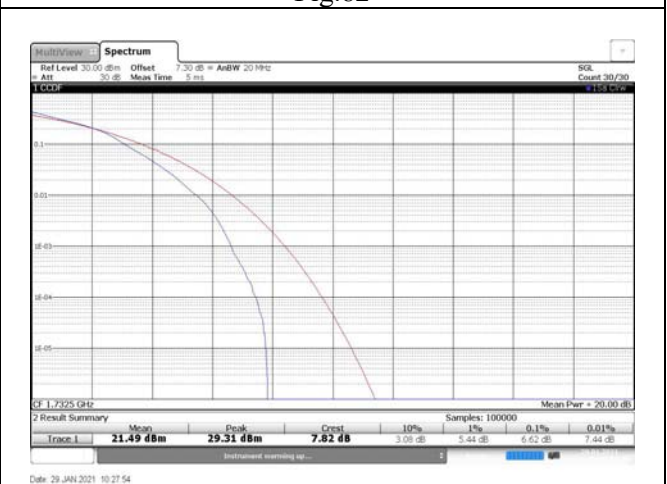


Fig.84