

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

LTE FDD Band 4				
TX Channel Bandwidth	Channel	RB Size/Offset	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	19957	1 RB low	22.30	21.76
		1 RB high	23.12	22.27
		50% RB mid	22.44	21.90
		100% RB	22.52	22.09
	20175	1 RB low	23.16	22.47
		1 RB high	21.94	21.42
		50% RB mid	23.47	22.73
		100% RB	21.64	20.89
	20393	1 RB low	21.90	21.22
		1 RB high	22.86	22.45
		50% RB mid	22.79	22.23
		100% RB	21.94	21.52
3 MHz	19965	1 RB low	23.27	22.49
		1 RB high	22.07	21.41
		50% RB mid	21.82	21.10
		100% RB	22.81	22.10
	20175	1 RB low	23.18	22.82
		1 RB high	21.63	21.28
		50% RB mid	22.77	22.02
		100% RB	23.07	22.67
	20385	1 RB low	23.21	22.52
		1 RB high	21.54	20.86
		50% RB mid	22.56	22.17
		100% RB	22.47	21.78
5 MHz	19975	1 RB low	22.52	22.02
		1 RB high	21.66	21.07
		50% RB mid	23.28	22.71
		100% RB	22.86	22.30
	20175	1 RB low	22.42	21.92
		1 RB high	23.32	22.78
		50% RB mid	22.16	21.60
		100% RB	22.48	21.86
	20375	1 RB low	21.81	21.13
		1 RB high	21.57	20.93
		50% RB mid	21.66	20.94
		100% RB	22.15	21.73

10 MHz	20000	1 RB low	23.26	22.81
		1 RB high	22.17	21.81
		50% RB mid	23.07	22.40
		100% RB	23.15	22.47
	20175	1 RB low	22.44	21.59
		1 RB high	23.08	22.49
		50% RB mid	22.00	21.16
		100% RB	21.78	21.07
	20350	1 RB low	23.14	22.68
		1 RB high	23.12	22.69
		50% RB mid	21.74	21.33
		100% RB	22.75	22.05
15 MHz	20025	1 RB low	22.87	22.39
		1 RB high	22.38	21.91
		50% RB mid	22.70	22.10
		100% RB	22.76	22.16
	20175	1 RB low	22.28	21.84
		1 RB high	23.32	22.63
		50% RB mid	21.69	21.34
		100% RB	22.52	21.87
	20325	1 RB low	21.79	21.13
		1 RB high	21.92	21.53
		50% RB mid	22.02	21.39
		100% RB	22.57	22.12
20 MHz	20050	1 RB low	22.57	22.17
		1 RB high	22.39	21.59
		50% RB mid	22.04	21.66
		100% RB	22.37	21.91
	20175	1 RB low	21.82	21.20
		1 RB high	21.51	21.04
		50% RB mid	22.04	21.55
		100% RB	22.62	22.22
	20300	1 RB low	21.52	20.96
		1 RB high	22.13	21.50
		50% RB mid	21.88	21.30
		100% RB	22.52	21.87

Appendix B: Peak-to-Average Ratio(CCDF)

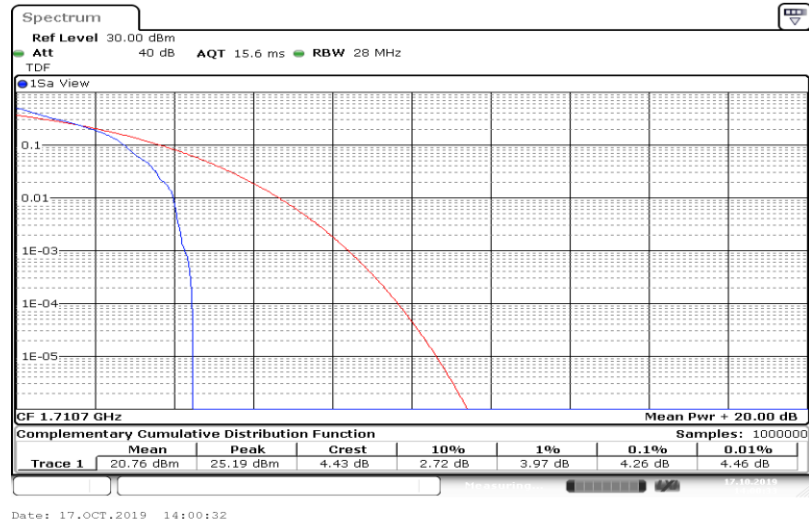
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.26	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	4.84	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.99	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.30	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.93	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.28	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	4.75	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.62	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.65	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	6.26	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	5.48	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	6.14	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.93	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.36	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.33	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.77	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	6.17	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	6.14	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.07	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.30	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.33	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.74	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	6.12	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.00	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.16	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.33	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.22	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	6.03	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.14	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.94	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.59	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.57	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.39	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.20	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.12	13	PASS

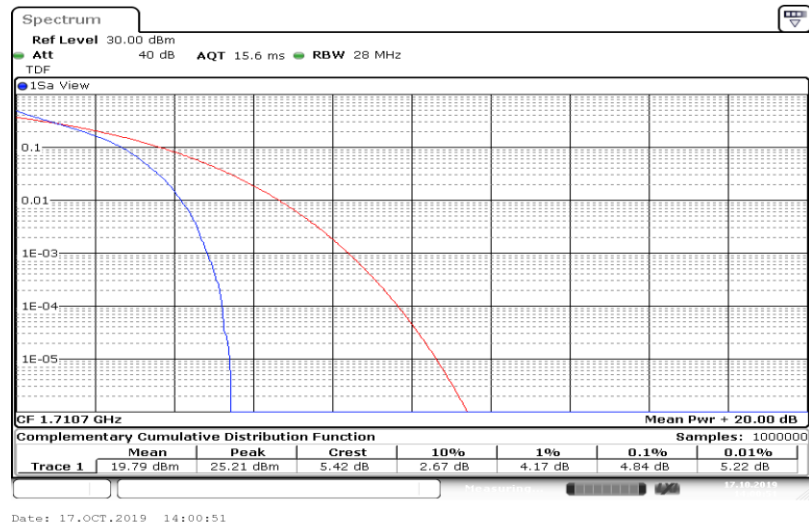
Band4	15MHz	16QAM	20325	75RB#0	5.97	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.39	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.25	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.16	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.12	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS

Test Graphs

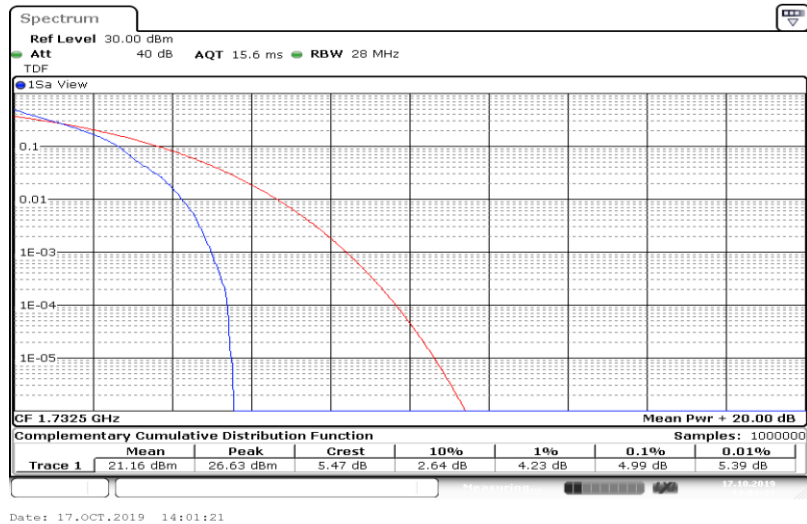
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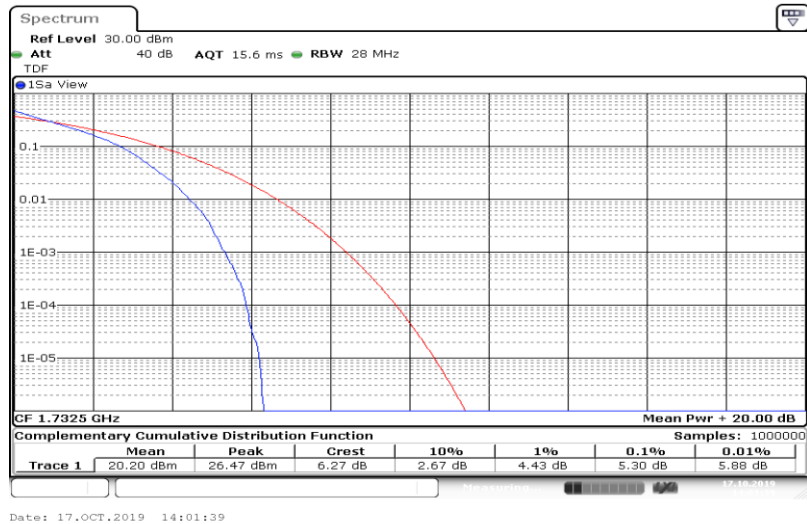
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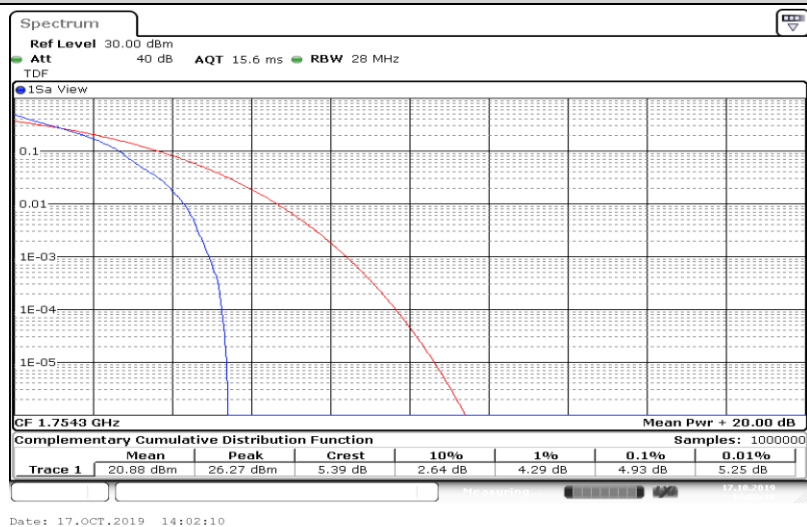
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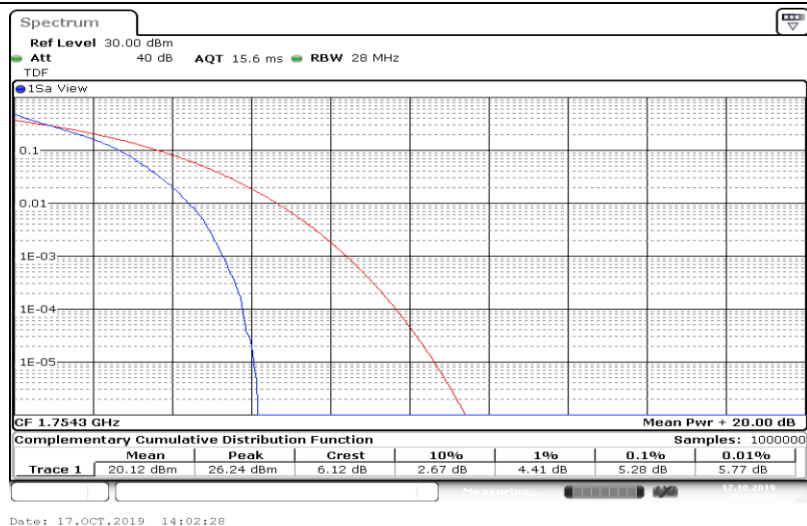
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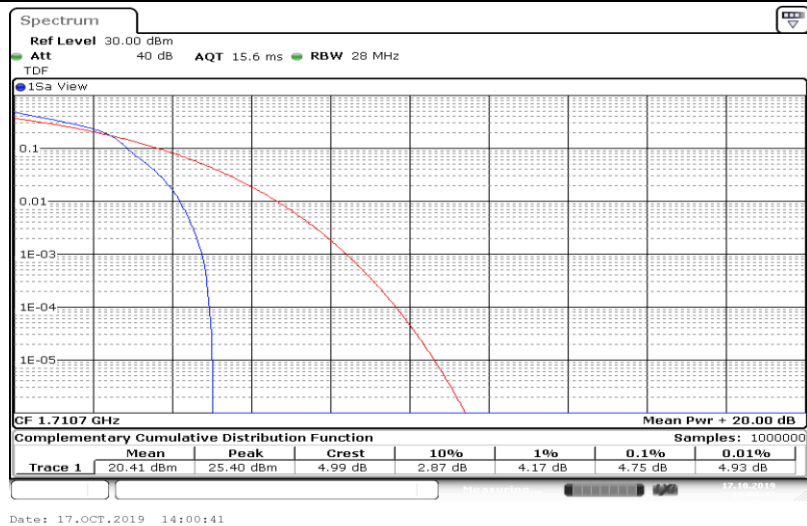
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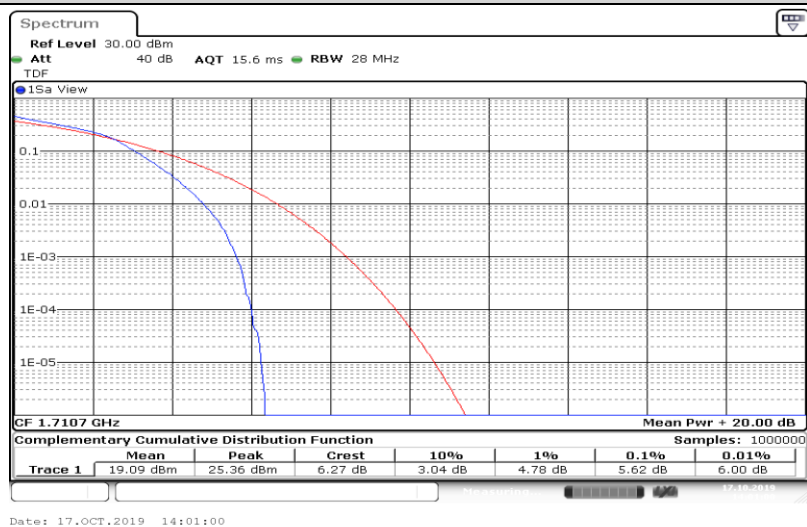
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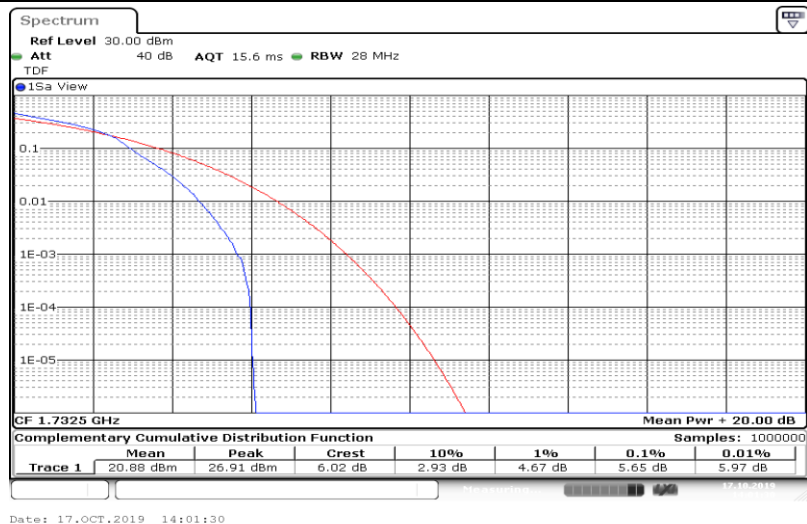
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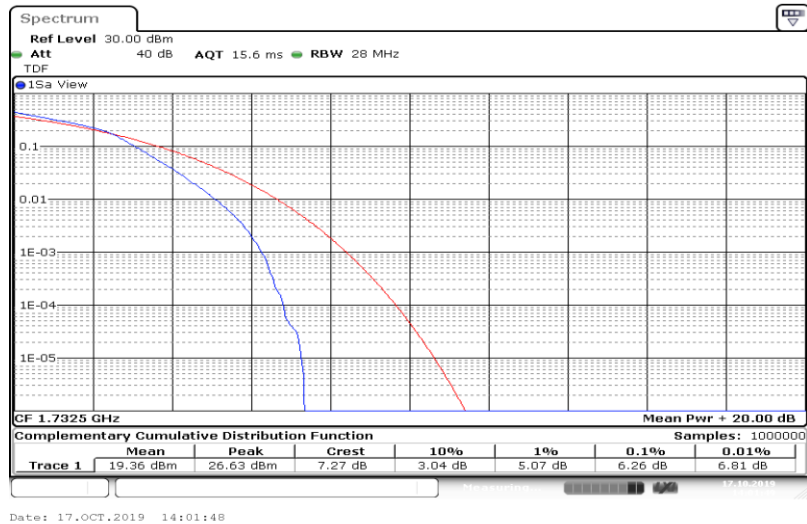
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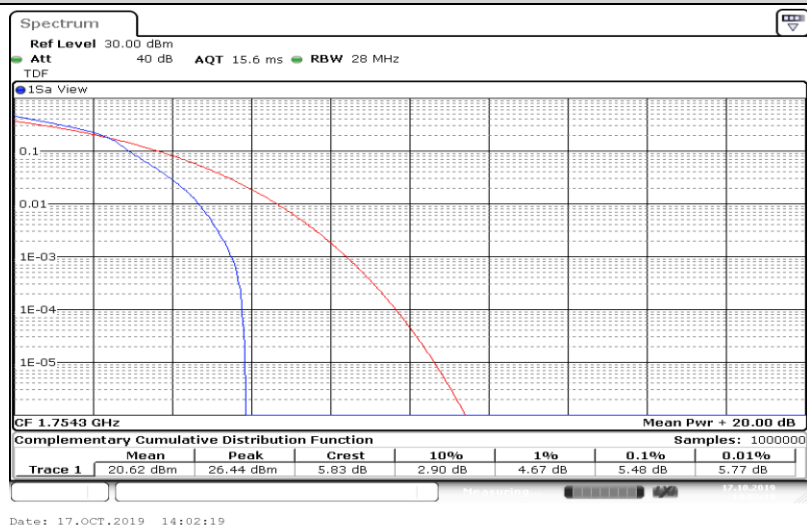
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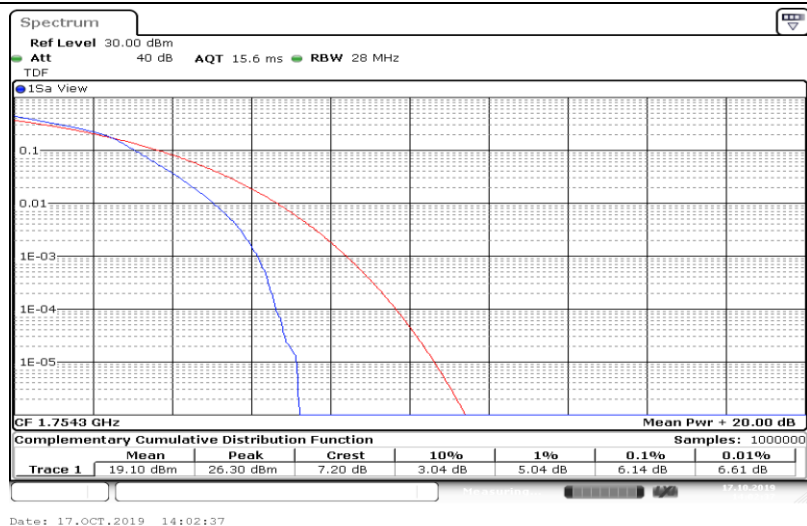
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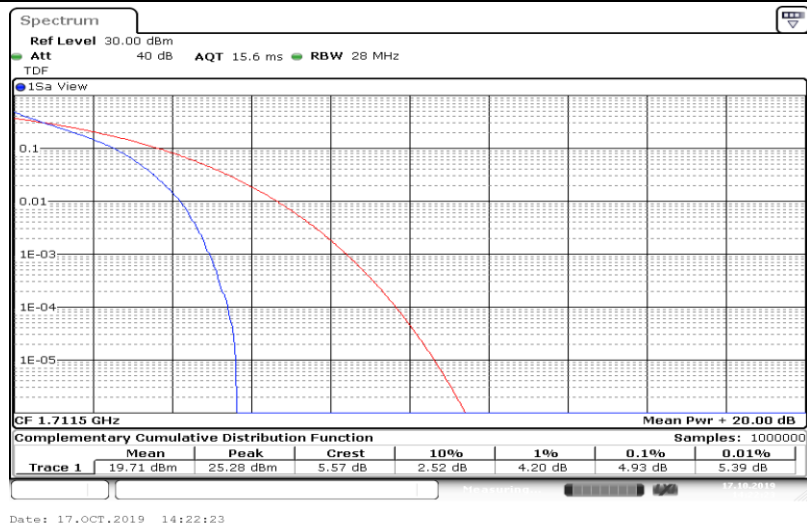
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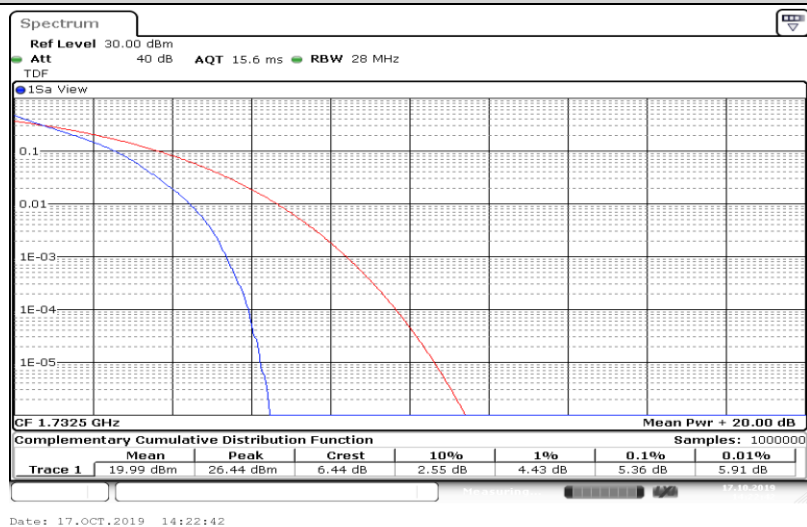
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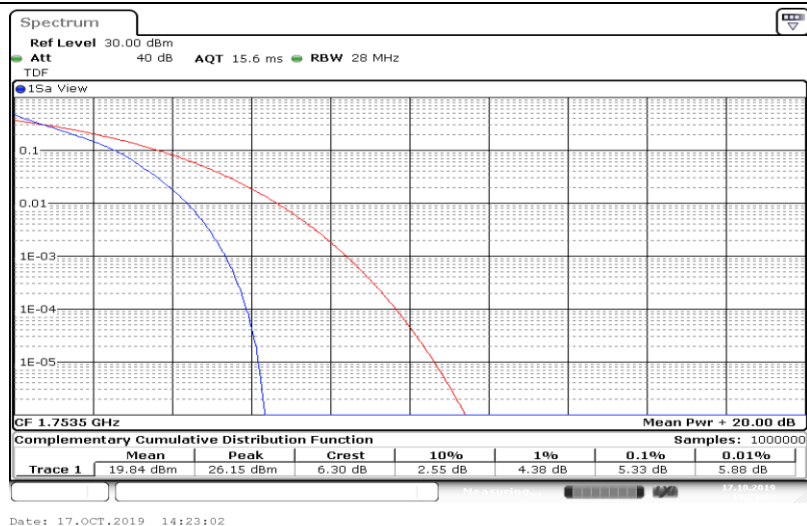
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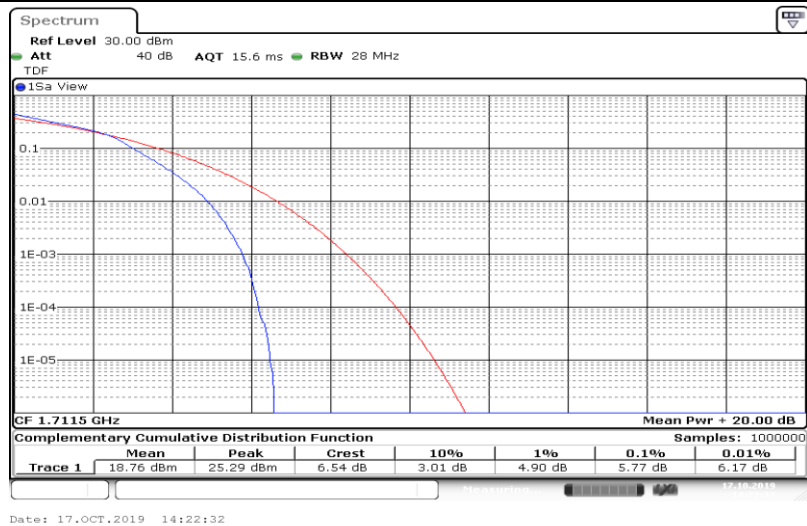
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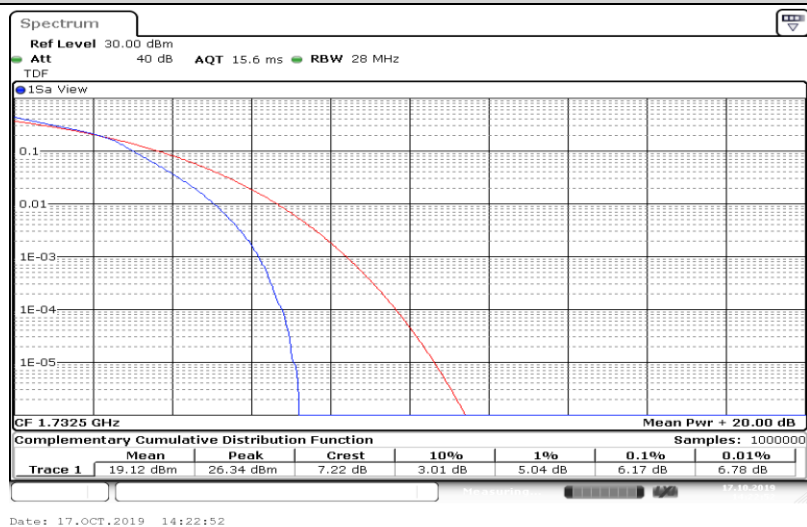
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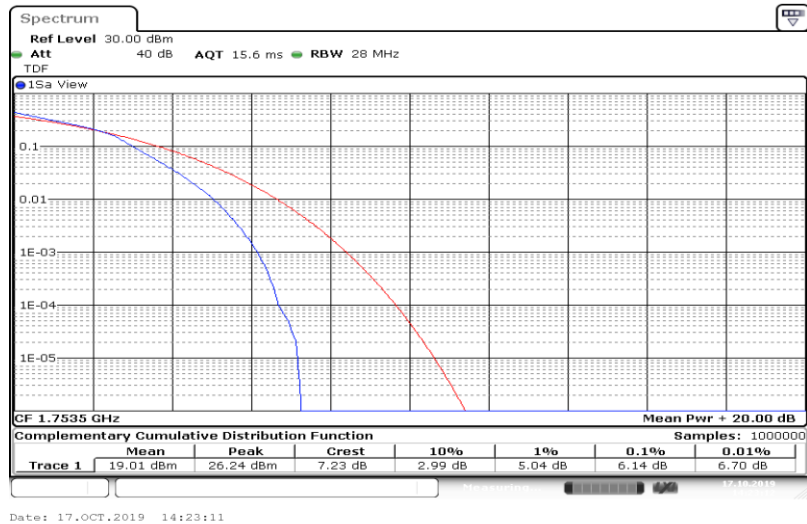
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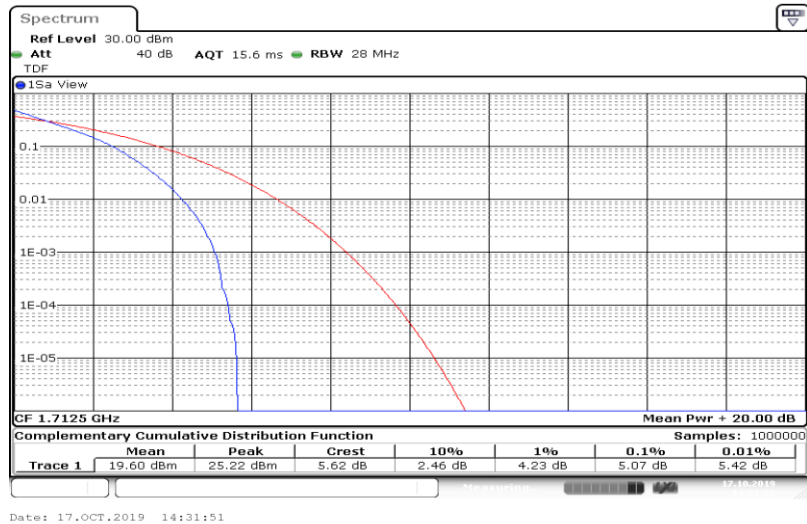
Band4-3MHz-16QAM-20175-15RB#0



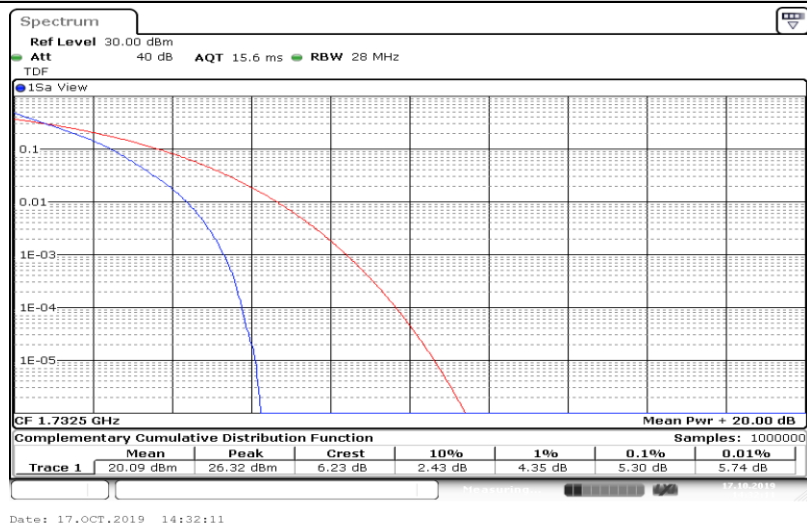
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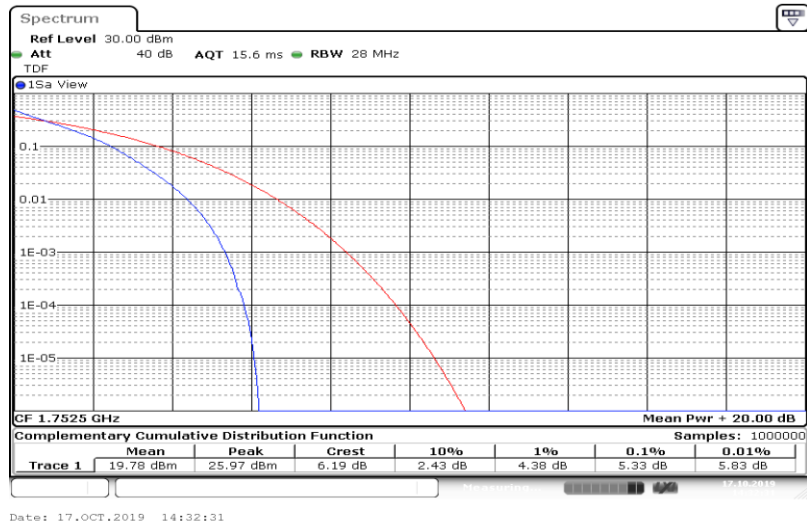
Band4-5MHz-QPSK-19975-25RB#0



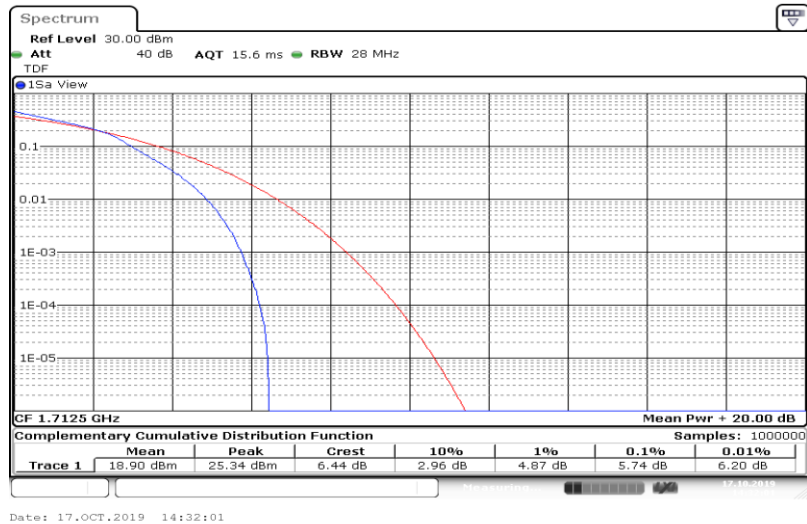
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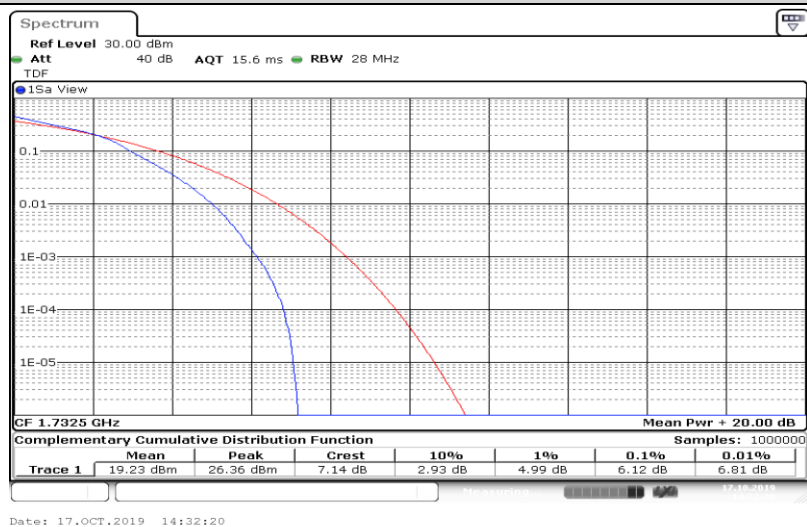
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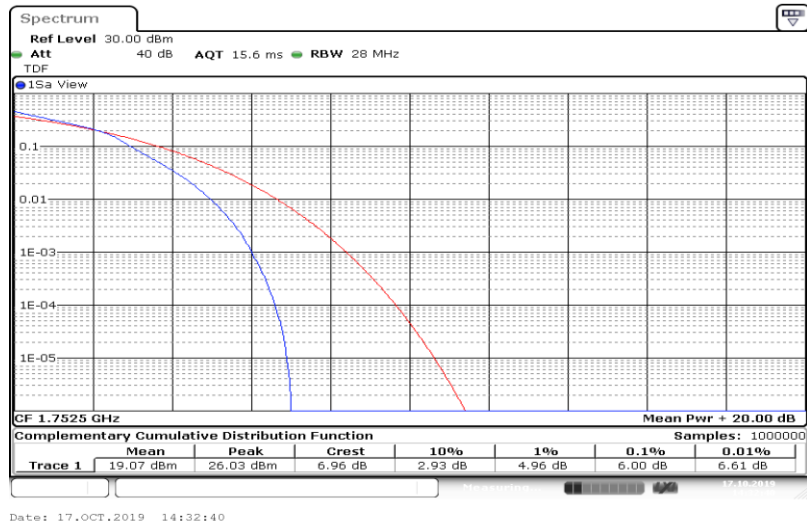
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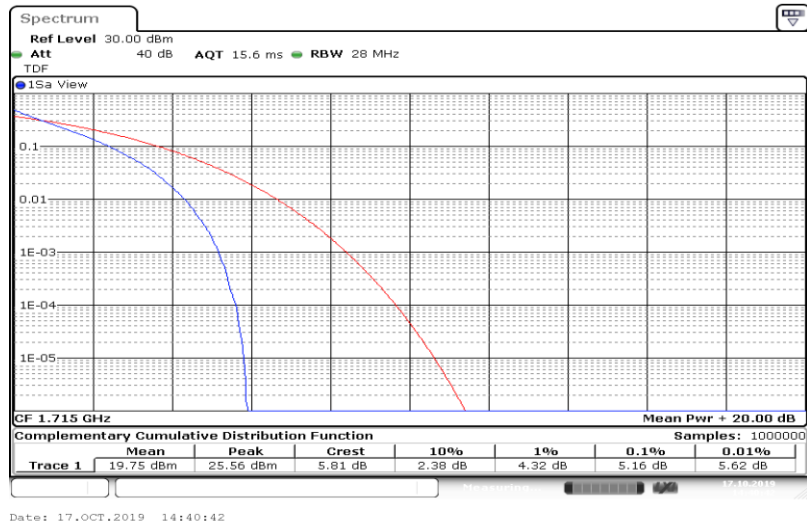
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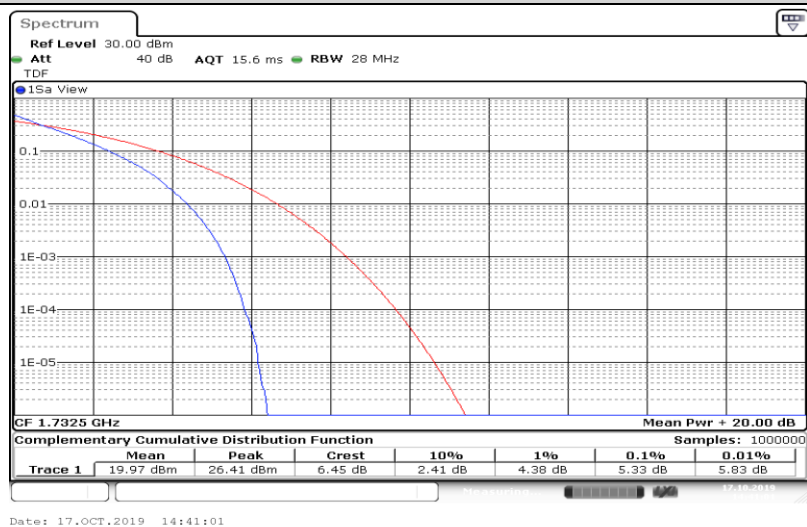
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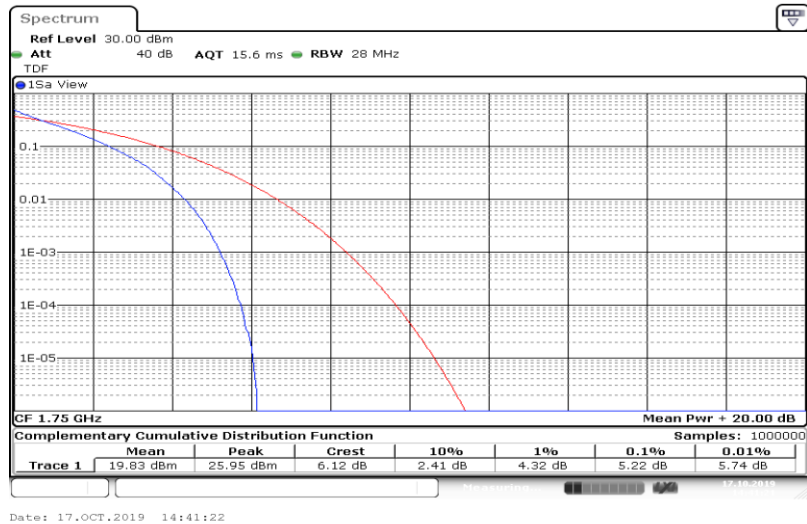
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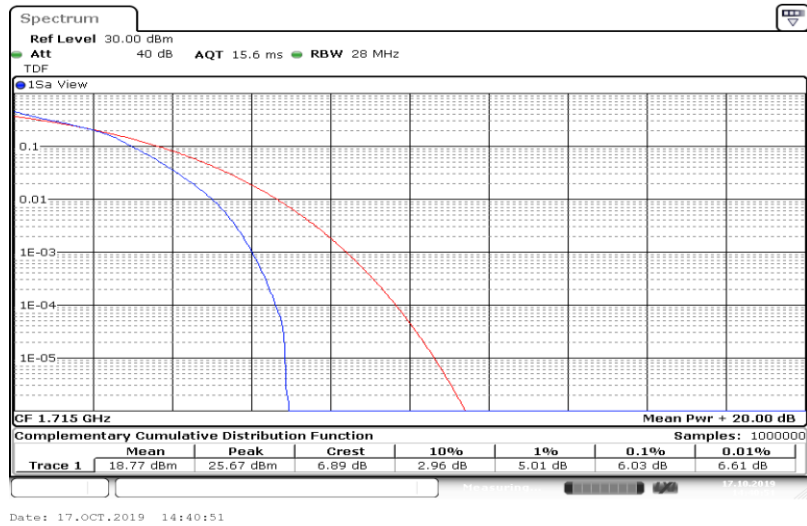
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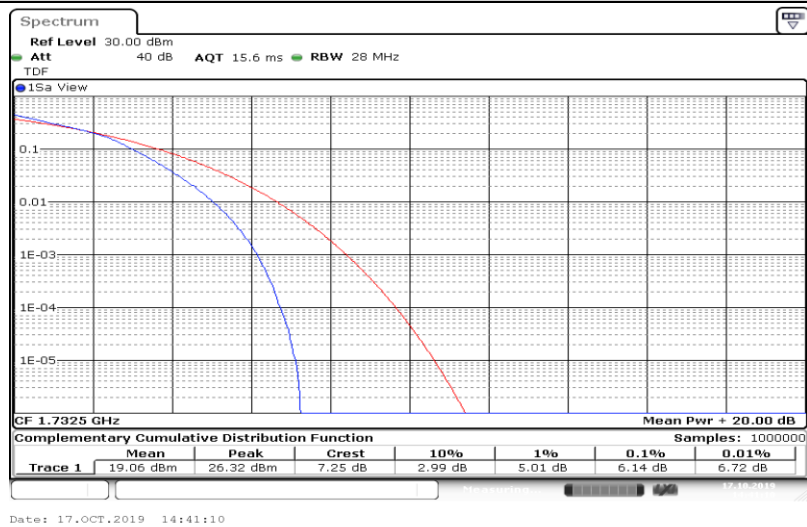
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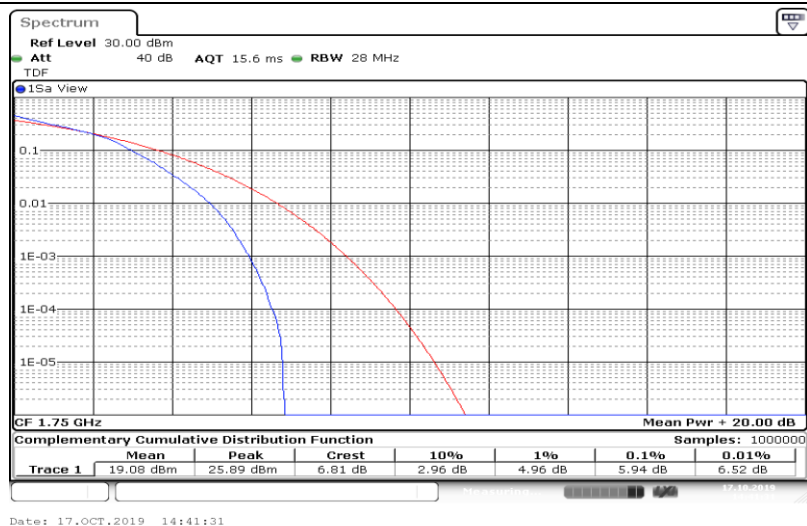
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Band4-10MHz-16QAM-20175-50RB#0

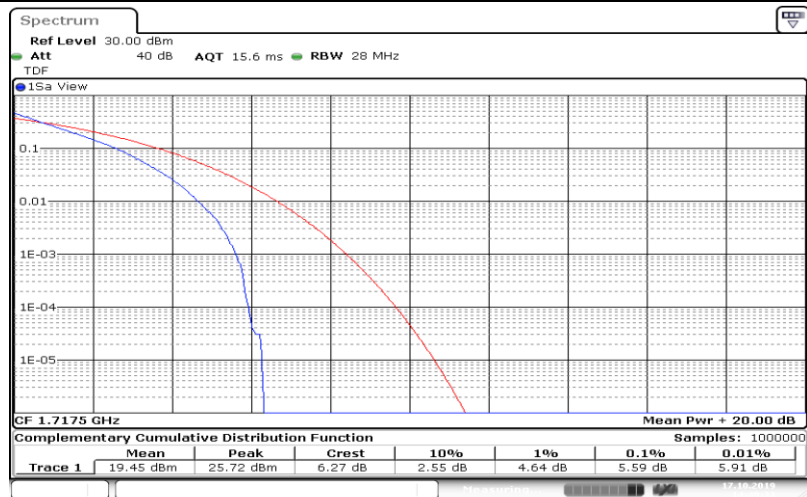


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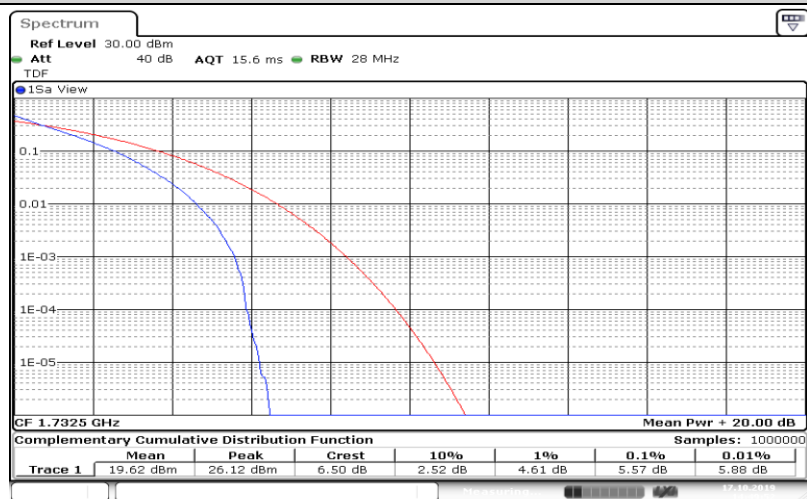
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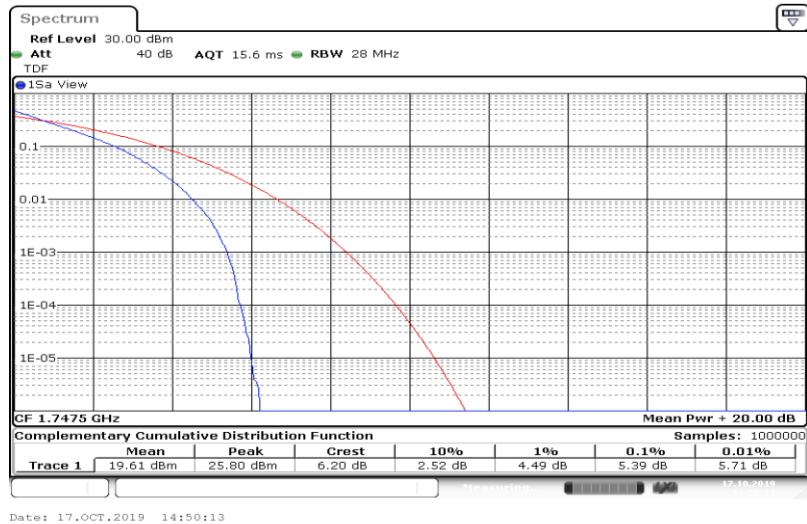
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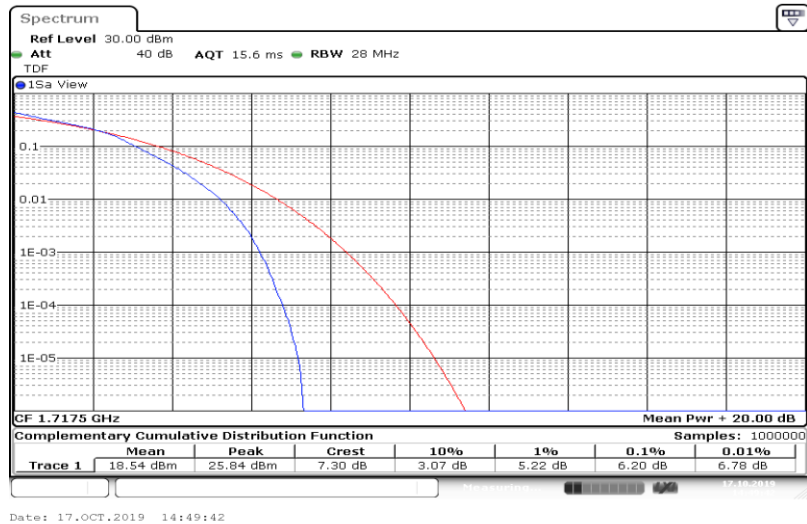


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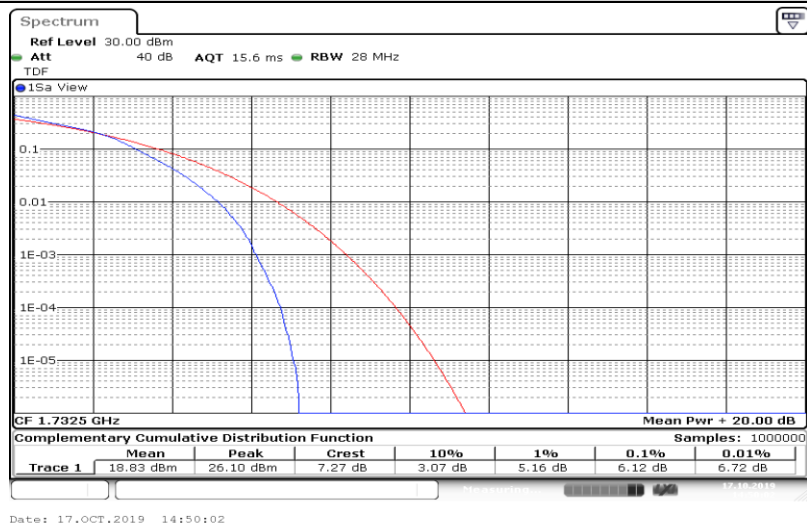
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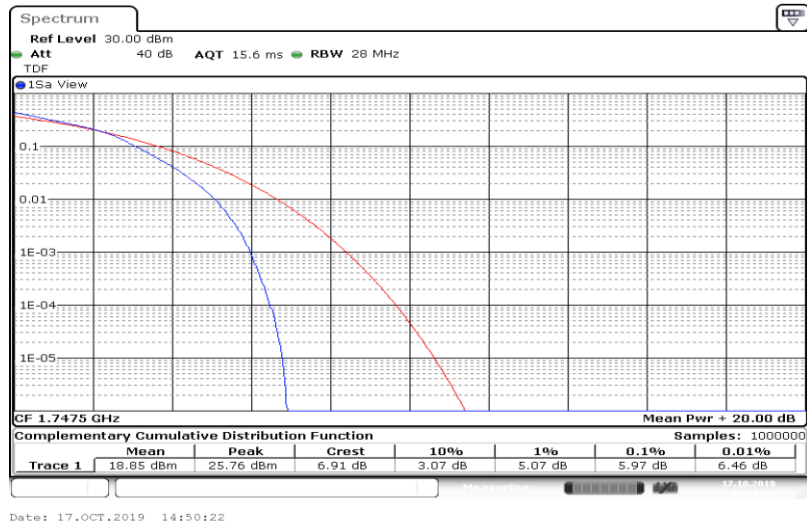
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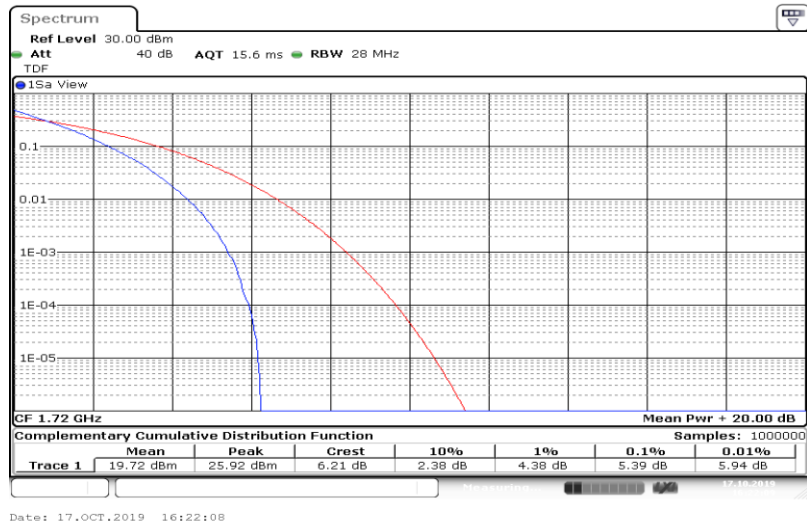
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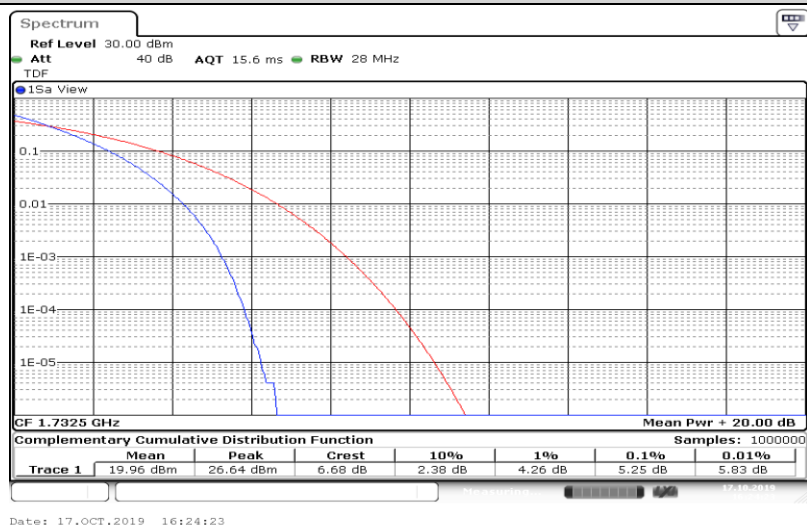
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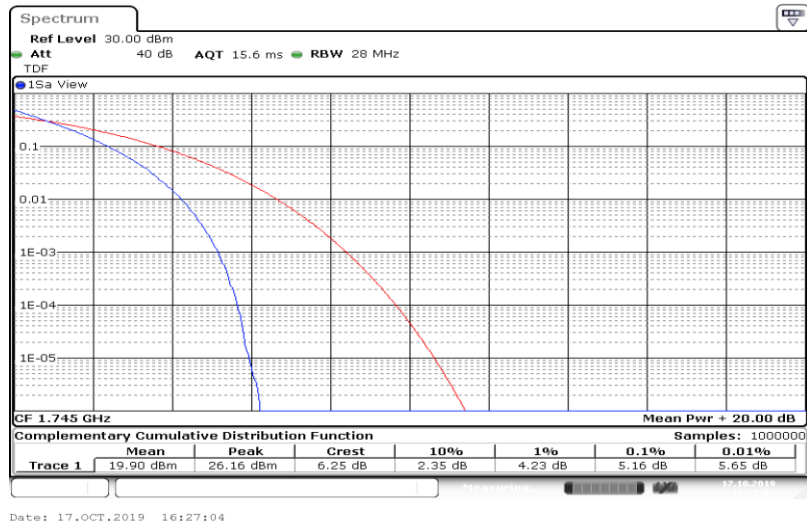
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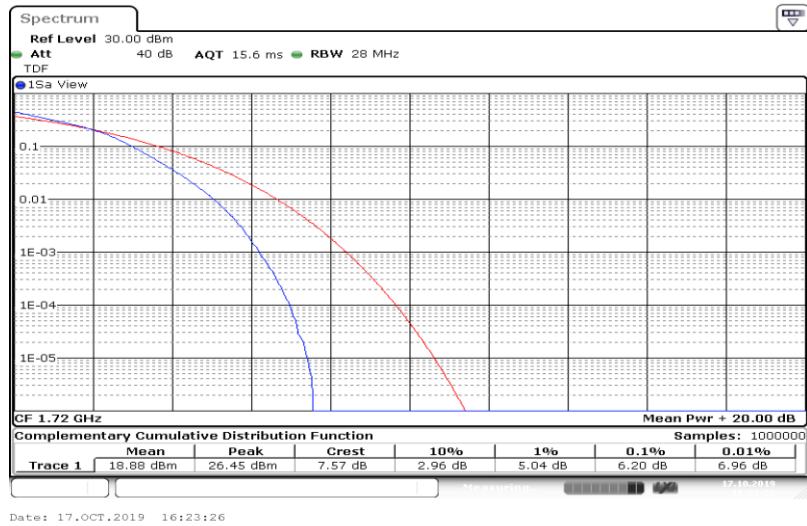
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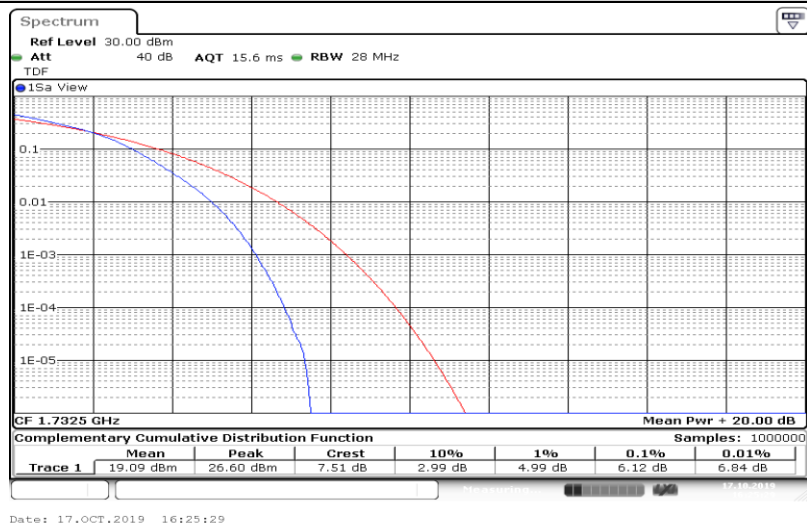
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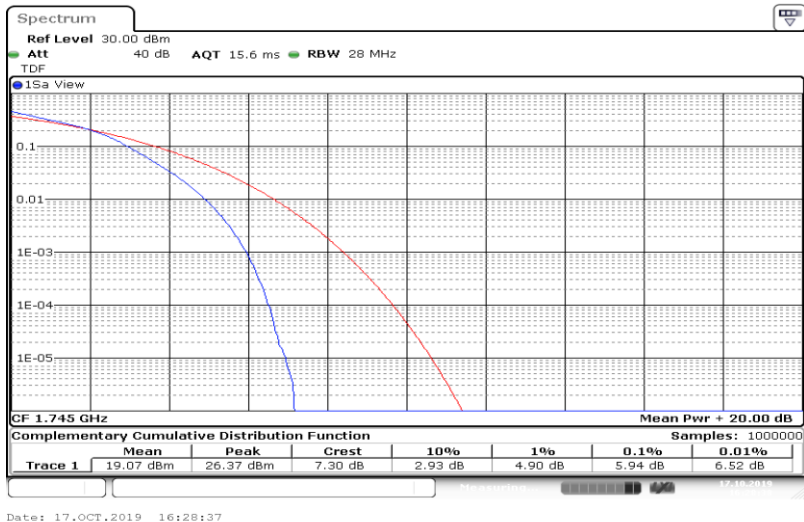
Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-100RB#0



Date: 17.OCT.2019 16:28:37

Appendix C: 26dB Bandwidth and Occupied Bandwidth

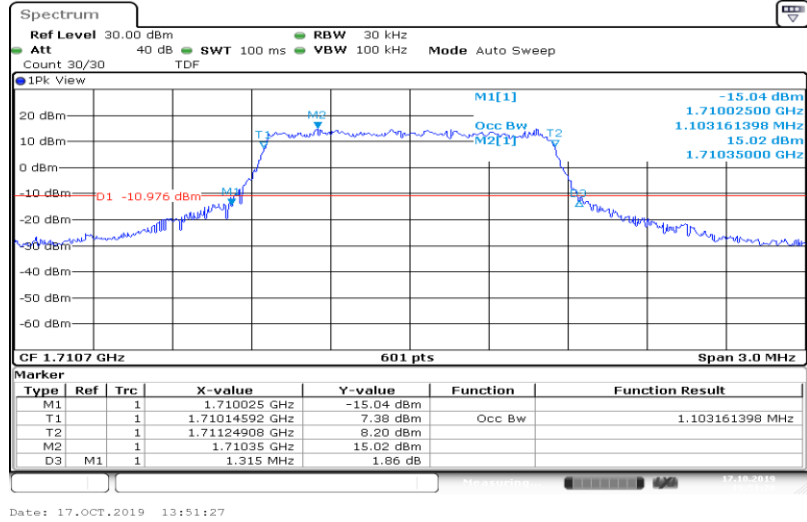
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.103	1.315	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.103	1.295	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.098	1.300	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.103	1.300	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.098	1.310	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.093	1.280	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.715	3.060	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.715	3.080	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.715	3.060	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.725	3.150	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.715	3.140	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.715	3.050	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.515	5.430	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.515	5.240	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.545	5.300	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.555	5.460	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.545	5.520	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.525	5.320	PASS
Band4	10MHz	QPSK	20000	50RB#0	9.018	10.300	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.952	10.200	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.985	10.200	PASS
Band4	10MHz	16QAM	20000	50RB#0	9.018	10.733	PASS
Band4	10MHz	16QAM	20175	50RB#0	9.018	10.067	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.985	10.267	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.478	16.000	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.428	15.500	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.478	15.450	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.478	15.050	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.527	15.400	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.478	15.250	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.17	20.800	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.037	20.467	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.103	20.467	PASS

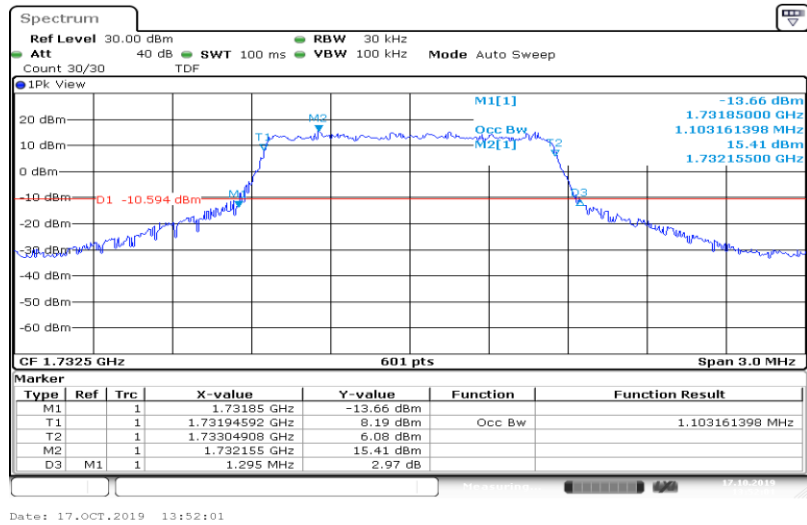
Band4	20MHz	16QAM	20050	100RB#0	18.103	20.800	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.103	20.600	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.103	20.667	PASS

Test Graphs

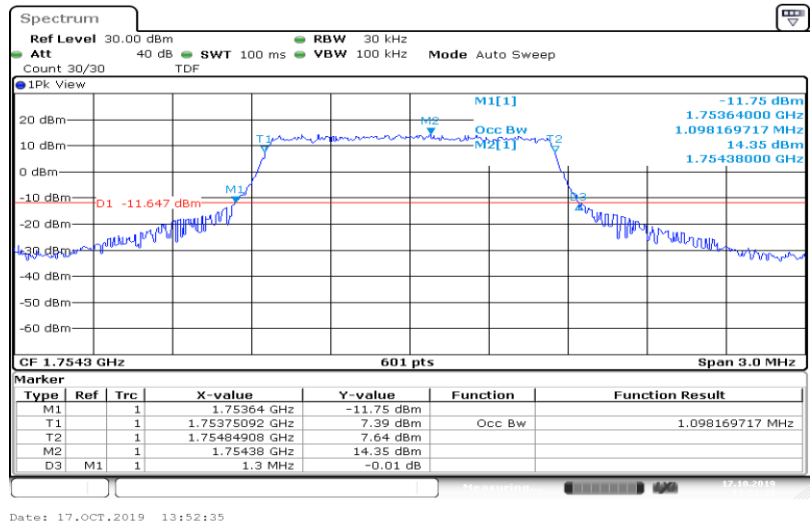
Band4-1.4MHz-QPSK-19957-6RB#0-1.103



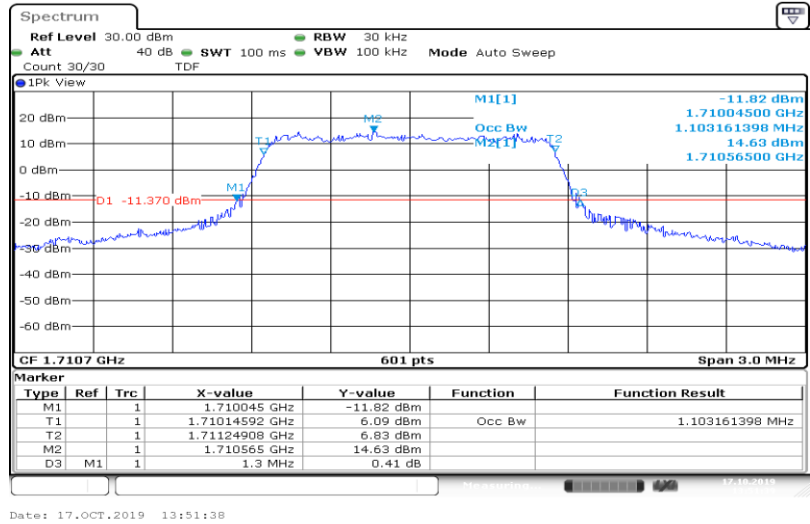
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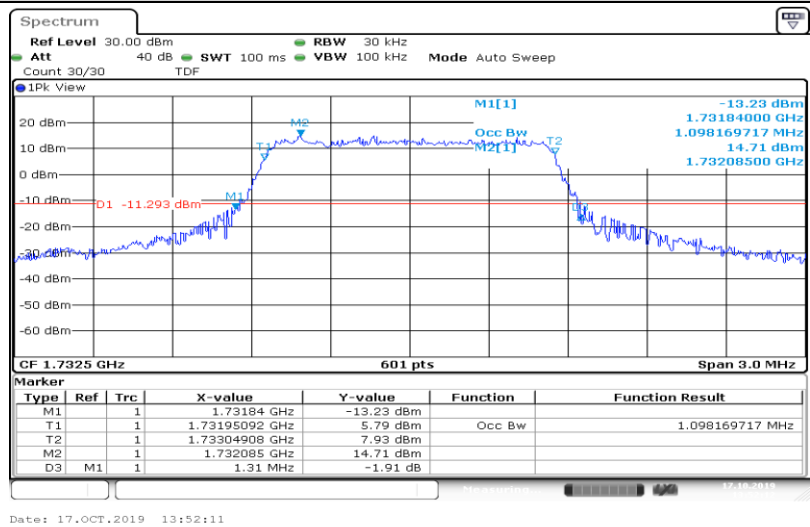
Band4-1.4MHz-QPSK-20393-6RB#0-1.098



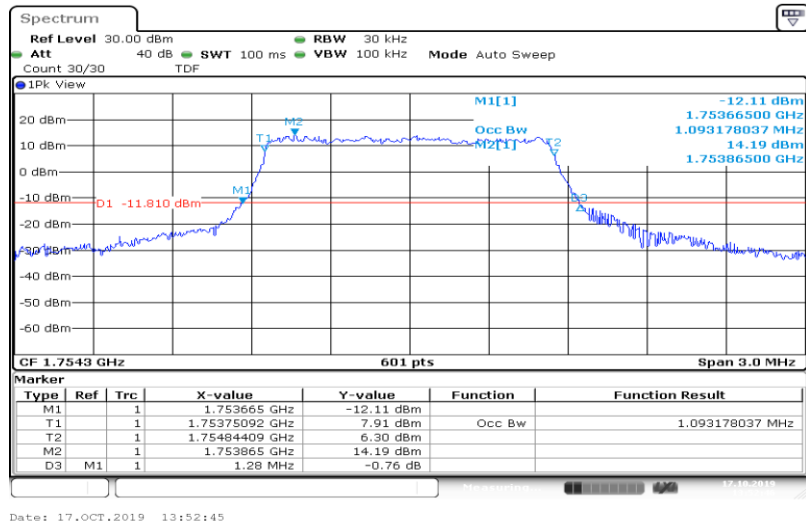
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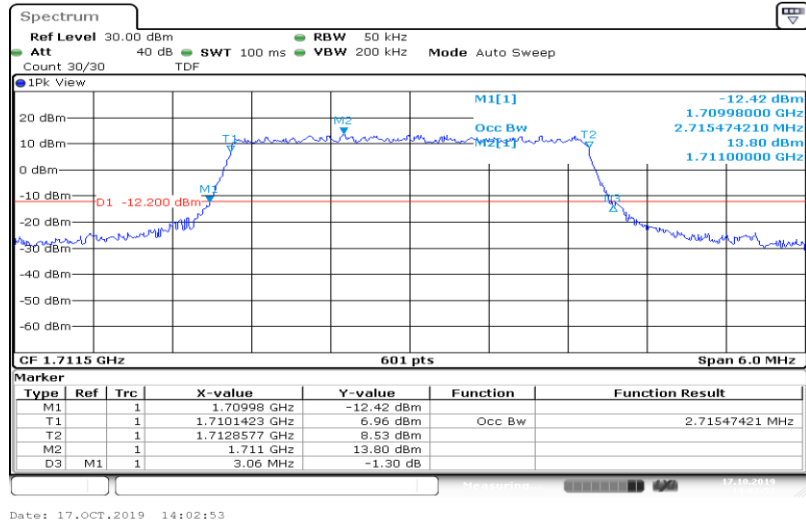
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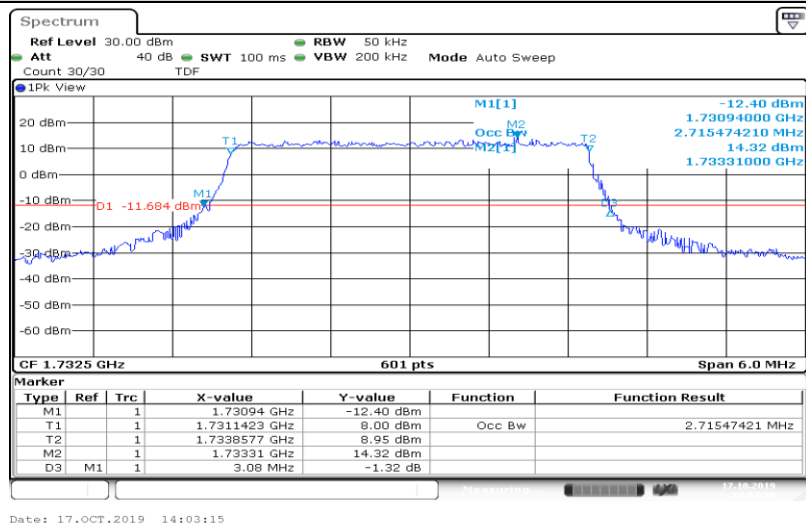
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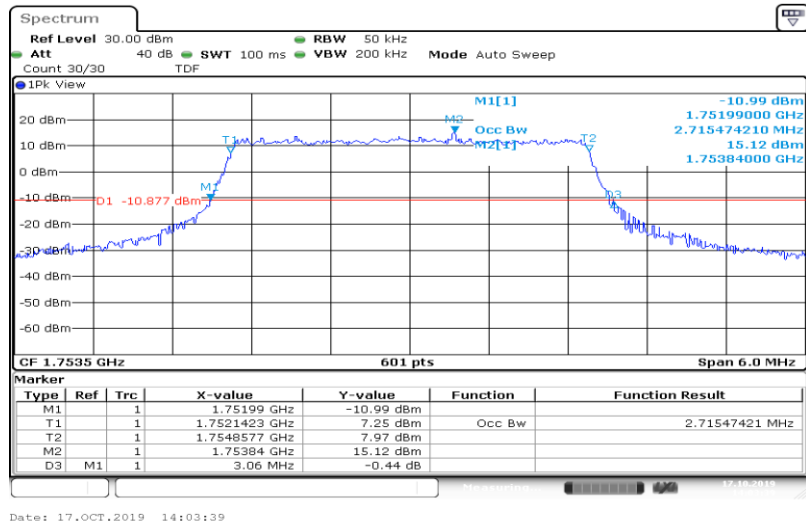
Band4-3MHz-QPSK-19965-15RB#0-2.715



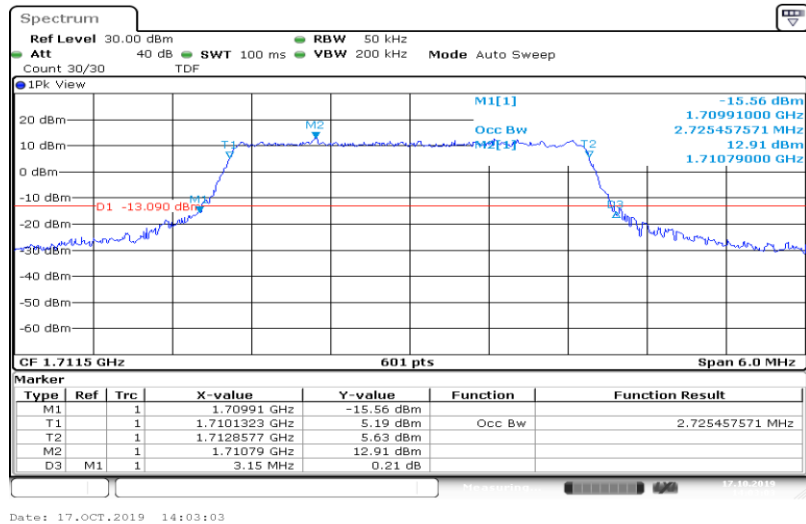
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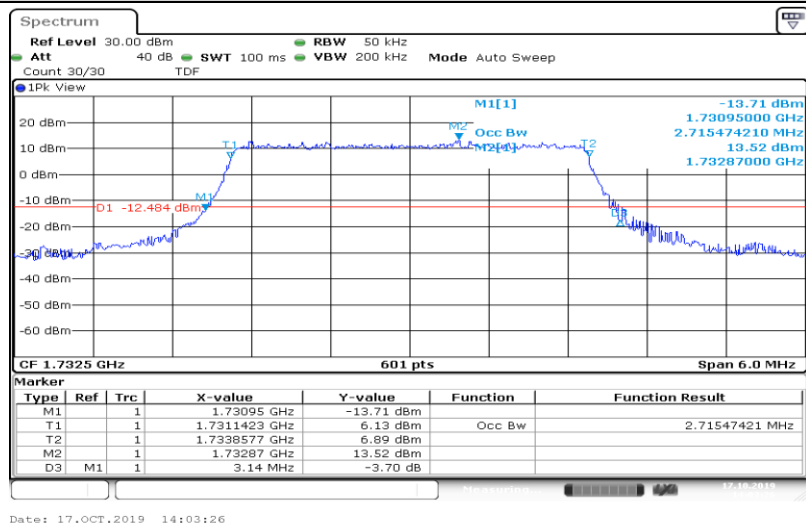
Band4-3MHz-QPSK-20385-15RB#0-2.715



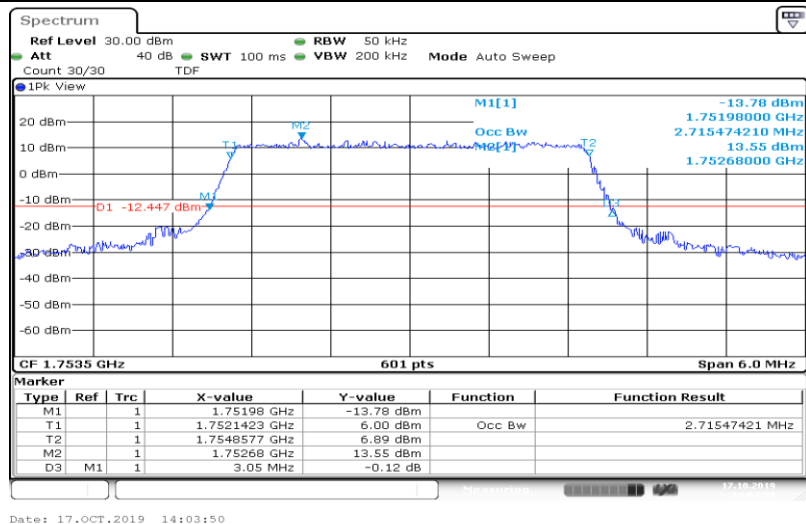
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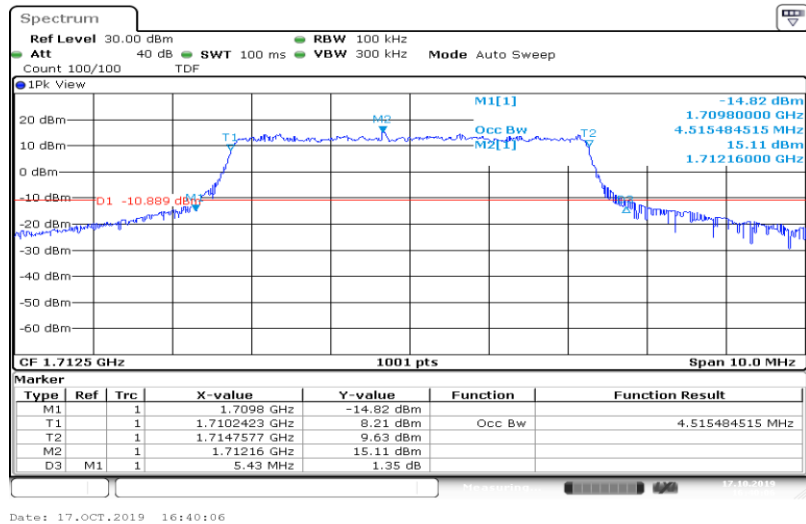
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Band4-3MHz-16QAM-20385-15RB#0-2.715



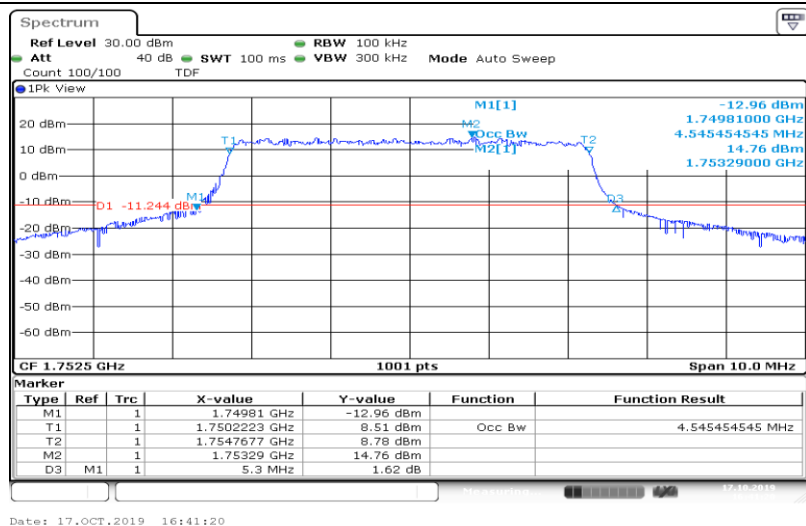
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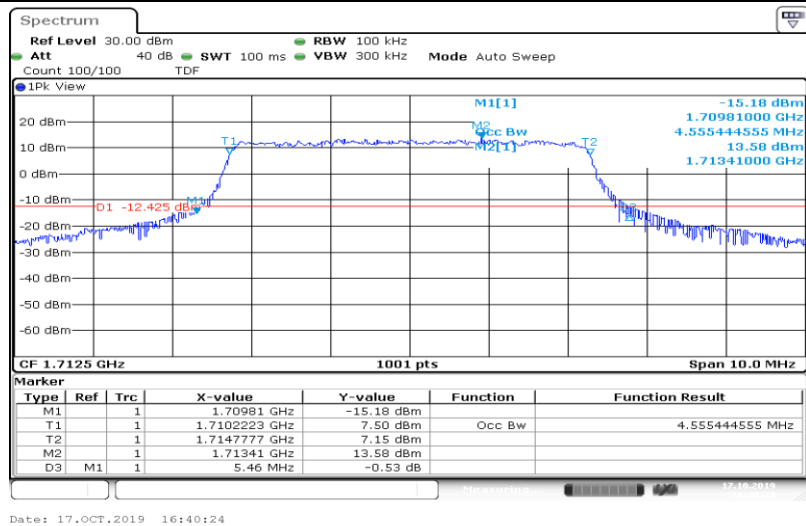
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Band4-5MHz-QPSK-20375-25RB#0-4.545



Band4-5MHz-16QAM-19975-25RB#0-4.555



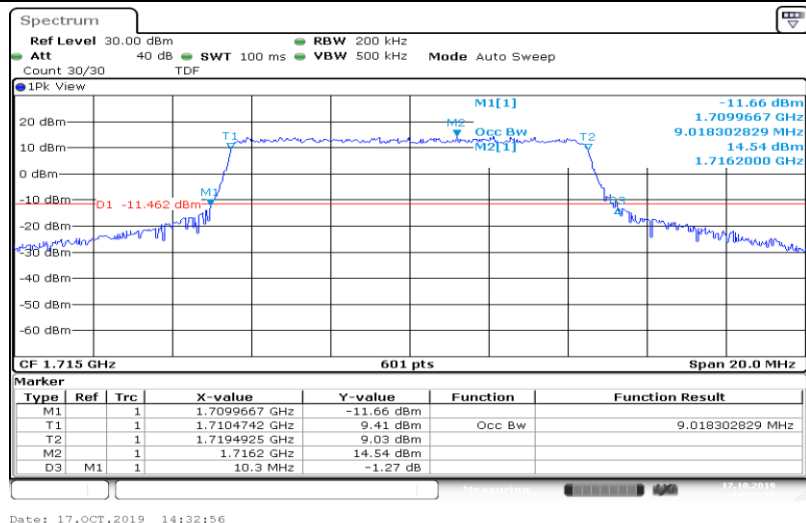
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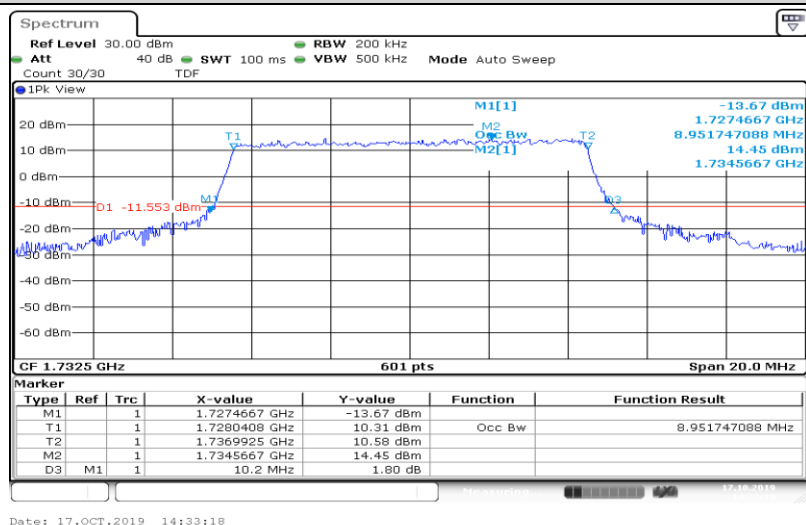
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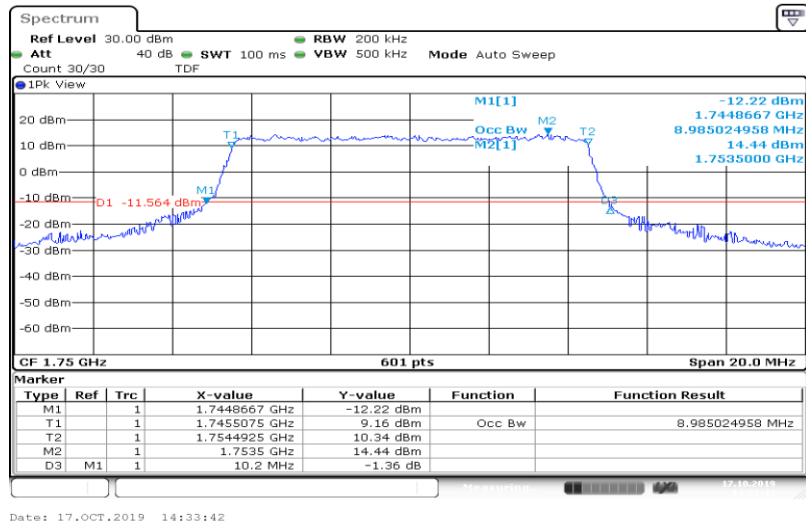
Band4-10MHz-QPSK-20000-50RB#0-9.018



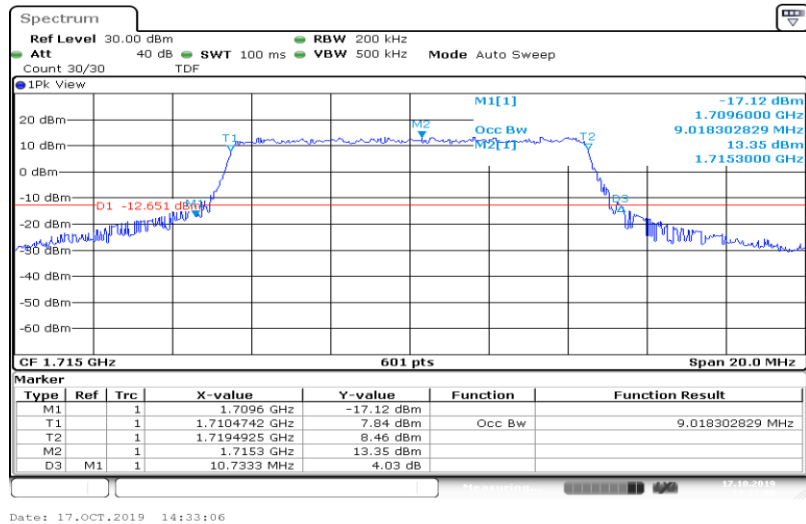
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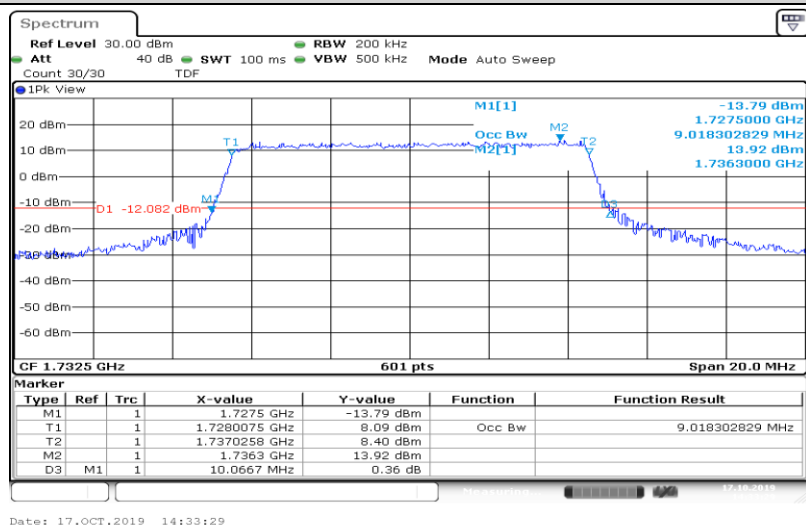
Band4-10MHz-QPSK-20350-50RB#0-8.985



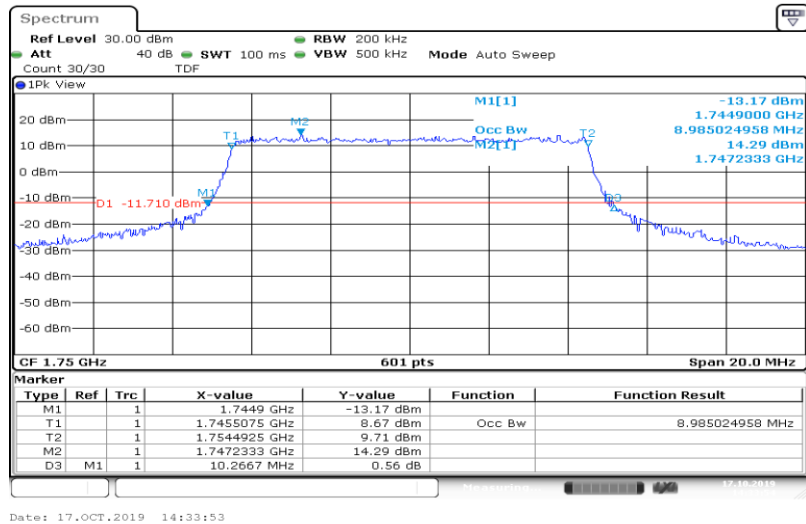
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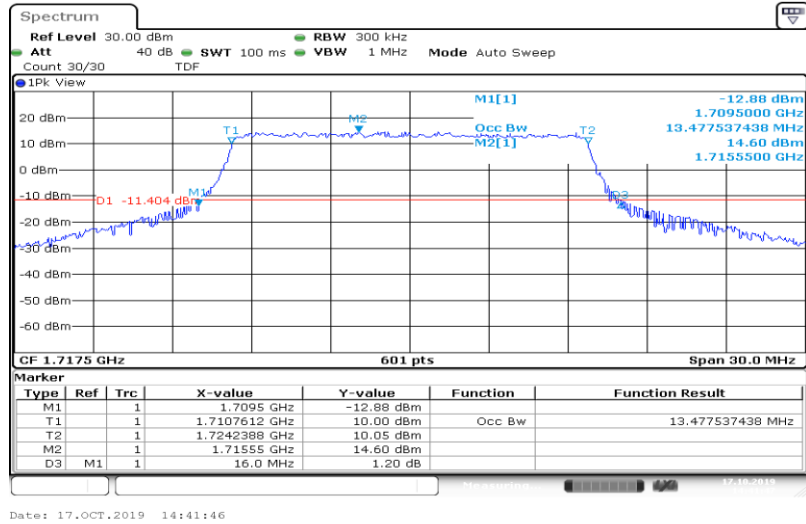
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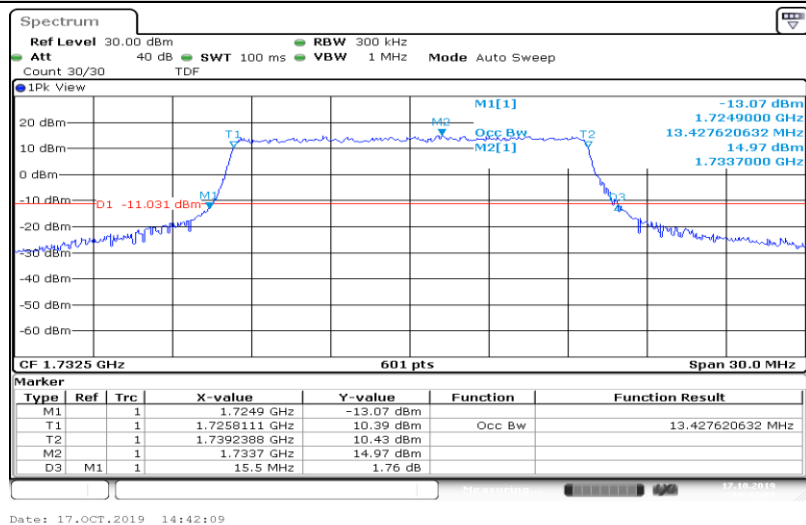
Band4-10MHz-16QAM-20350-50RB#0-8.985



Band4-15MHz-QPSK-20025-75RB#0-13.478



Band4-15MHz-QPSK-20175-75RB#0-13.428



Band4-15MHz-QPSK-20325-75RB#0-13.478