



Appendix B

E-UTRA Band CA_38C



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_38C

Band	PCC-SCC	PCC Channel-SCC Channel	PCC RB -SCC RB	PCC Modu-SCC Modu	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
38-38	75RB+75RB	37825-37975	1RB#0-0RB#0	QPSK-QPSK	23.26	23.89	33.00	PASS
38-38	75RB+75RB	37825-37975	16RB#0-0RB#0	QPSK-QPSK	23.4	24.03	33.00	PASS
38-38	75RB+75RB	37925-38075	1RB#0-0RB#0	QPSK-QPSK	23.14	23.77	33.00	PASS
38-38	75RB+75RB	37925-38075	16RB#0-0RB#0	QPSK-QPSK	23.43	24.06	33.00	PASS
38-38	75RB+75RB	38025-38175	1RB#0-0RB#0	QPSK-QPSK	23.11	23.74	33.00	PASS
38-38	75RB+75RB	38025-38175	16RB#0-0RB#0	QPSK-QPSK	23.39	24.02	33.00	PASS
38-38	75RB+75RB	37975-37825	1RB#0-0RB#0	QPSK-QPSK	22.83	23.46	33.00	PASS
38-38	75RB+75RB	37975-37825	16RB#0-0RB#0	QPSK-QPSK	23.14	23.77	33.00	PASS
38-38	75RB+75RB	38075-37925	1RB#0-0RB#0	QPSK-QPSK	22.96	23.59	33.00	PASS
38-38	75RB+75RB	38075-37925	16RB#0-0RB#0	QPSK-QPSK	23.19	23.82	33.00	PASS
38-38	75RB+75RB	38175-38025	1RB#0-0RB#0	QPSK-QPSK	22.94	23.57	33.00	PASS
38-38	75RB+75RB	38175-38025	16RB#0-0RB#0	QPSK-QPSK	23.16	23.79	33.00	PASS
38-38	75RB+75RB	37825-37975	1RB#0-0RB#0	16QAM-16QAM	22.56	23.19	33.00	PASS
38-38	75RB+75RB	37825-37975	16RB#0-0RB#0	16QAM-16QAM	22.45	23.08	33.00	PASS
38-38	75RB+75RB	37925-38075	1RB#0-0RB#0	16QAM-16QAM	22.54	23.17	33.00	PASS
38-38	75RB+75RB	37925-38075	16RB#0-0RB#0	16QAM-16QAM	22.44	23.07	33.00	PASS
38-38	75RB+75RB	38025-38175	1RB#0-0RB#0	16QAM-16QAM	22.52	23.15	33.00	PASS
38-38	75RB+75RB	38025-38175	16RB#0-0RB#0	16QAM-16QAM	22.41	23.04	33.00	PASS
38-38	75RB+75RB	37975-37825	1RB#0-0RB#0	16QAM-16QAM	22.28	22.91	33.00	PASS
38-38	75RB+75RB	37975-37825	16RB#0-0RB#0	16QAM-16QAM	22.22	22.85	33.00	PASS
38-38	75RB+75RB	38075-37925	1RB#0-0RB#0	16QAM-16QAM	22.16	22.79	33.00	PASS
38-38	75RB+75RB	38075-37925	16RB#0-0RB#0	16QAM-16QAM	22.19	22.82	33.00	PASS
38-38	75RB+75RB	38175-38025	1RB#0-0RB#0	16QAM-16QAM	22.22	22.85	33.00	PASS
38-38	75RB+75RB	38175-38025	16RB#0-0RB#0	16QAM-16QAM	22	22.63	33.00	PASS
38-38	75RB+75RB	37825-37975	1RB#0-0RB#0	64QAM-64QAM	21.49	22.12	33.00	PASS
38-38	75RB+75RB	37825-37975	16RB#0-0RB#0	64QAM-64QAM	21.42	22.05	33.00	PASS
38-38	75RB+75RB	37925-38075	1RB#0-0RB#0	64QAM-64QAM	21.39	22.02	33.00	PASS
38-38	75RB+75RB	37925-38075	16RB#0-0RB#0	64QAM-64QAM	21.39	22.02	33.00	PASS
38-38	75RB+75RB	38025-38175	1RB#0-0RB#0	64QAM-64QAM	21.34	21.97	33.00	PASS
38-38	75RB+75RB	38025-38175	16RB#0-0RB#0	64QAM-64QAM	21.38	22.01	33.00	PASS
38-38	75RB+75RB	37975-37825	1RB#0-0RB#0	64QAM-64QAM	21.06	21.69	33.00	PASS
38-38	75RB+75RB	37975-37825	16RB#0-0RB#0	64QAM-64QAM	21.07	21.7	33.00	PASS
38-38	75RB+75RB	38075-37925	1RB#0-0RB#0	64QAM-64QAM	21.15	21.78	33.00	PASS
38-38	75RB+75RB	38075-37925	16RB#0-0RB#0	64QAM-64QAM	21.15	21.78	33.00	PASS
38-38	75RB+75RB	38175-38025	1RB#0-0RB#0	64QAM-64QAM	21.04	21.67	33.00	PASS
38-38	75RB+75RB	38175-38025	16RB#0-0RB#0	64QAM-64QAM	21.16	21.79	33.00	PASS
38-38	100RB+100RB	37850-38048	1RB#0-0RB#0	QPSK-QPSK	23.23	23.86	33.00	PASS
38-38	100RB+100RB	37850-38048	18RB#0-0RB#0	QPSK-QPSK	23.91	24.54	33.00	PASS
38-38	100RB+100RB	37901-38099	1RB#0-0RB#0	QPSK-QPSK	23.45	24.08	33.00	PASS
38-38	100RB+100RB	37901-38099	18RB#0-0RB#0	QPSK-QPSK	23.88	24.51	33.00	PASS
38-38	100RB+100RB	37952-38150	1RB#0-0RB#0	QPSK-QPSK	23.28	23.91	33.00	PASS
38-38	100RB+100RB	37952-38150	18RB#0-0RB#0	QPSK-QPSK	23.86	24.49	33.00	PASS
38-38	100RB+100RB	38048-37850	1RB#0-0RB#0	QPSK-QPSK	23.45	24.08	33.00	PASS

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38-38	100RB+100RB	38048-37850	18RB#0-0RB#0	QPSK-QPSK	23.39	24.02	33.00	PASS
38-38	100RB+100RB	38099-37901	1RB#0-0RB#0	QPSK-QPSK	23.16	23.79	33.00	PASS
38-38	100RB+100RB	38099-37901	18RB#0-0RB#0	QPSK-QPSK	23.35	23.98	33.00	PASS
38-38	100RB+100RB	38150-37952	1RB#0-0RB#0	QPSK-QPSK	23.09	23.72	33.00	PASS
38-38	100RB+100RB	38150-37952	18RB#0-0RB#0	QPSK-QPSK	23.42	24.05	33.00	PASS
38-38	100RB+100RB	37850-38048	1RB#0-0RB#0	16QAM-16QAM	22.53	23.16	33.00	PASS
38-38	100RB+100RB	37850-38048	18RB#0-0RB#0	16QAM-16QAM	22.87	23.5	33.00	PASS
38-38	100RB+100RB	37901-38099	1RB#0-0RB#0	16QAM-16QAM	22.69	23.32	33.00	PASS
38-38	100RB+100RB	37901-38099	18RB#0-0RB#0	16QAM-16QAM	22.95	23.58	33.00	PASS
38-38	100RB+100RB	37952-38150	1RB#0-0RB#0	16QAM-16QAM	22.78	23.41	33.00	PASS
38-38	100RB+100RB	37952-38150	18RB#0-0RB#0	16QAM-16QAM	22.86	23.49	33.00	PASS
38-38	100RB+100RB	38048-37850	1RB#0-0RB#0	16QAM-16QAM	22.62	23.25	33.00	PASS
38-38	100RB+100RB	38048-37850	18RB#0-0RB#0	16QAM-16QAM	22.38	23.01	33.00	PASS
38-38	100RB+100RB	38099-37901	1RB#0-0RB#0	16QAM-16QAM	22.38	23.01	33.00	PASS
38-38	100RB+100RB	38099-37901	18RB#0-0RB#0	16QAM-16QAM	22.34	22.97	33.00	PASS
38-38	100RB+100RB	38150-37952	1RB#0-0RB#0	16QAM-16QAM	22.4	23.03	33.00	PASS
38-38	100RB+100RB	38150-37952	18RB#0-0RB#0	16QAM-16QAM	22.36	22.99	33.00	PASS
38-38	100RB+100RB	37850-38048	1RB#0-0RB#0	64QAM-64QAM	21.14	21.77	33.00	PASS
38-38	100RB+100RB	37850-38048	18RB#0-0RB#0	64QAM-64QAM	21.54	22.17	33.00	PASS
38-38	100RB+100RB	37901-38099	1RB#0-0RB#0	64QAM-64QAM	21.06	21.69	33.00	PASS
38-38	100RB+100RB	37901-38099	18RB#0-0RB#0	64QAM-64QAM	21.55	22.18	33.00	PASS
38-38	100RB+100RB	37952-38150	1RB#0-0RB#0	64QAM-64QAM	21.14	21.77	33.00	PASS
38-38	100RB+100RB	37952-38150	18RB#0-0RB#0	64QAM-64QAM	21.54	22.17	33.00	PASS
38-38	100RB+100RB	38048-37850	1RB#0-0RB#0	64QAM-64QAM	21.12	21.75	33.00	PASS
38-38	100RB+100RB	38048-37850	18RB#0-0RB#0	64QAM-64QAM	21.02	21.65	33.00	PASS
38-38	100RB+100RB	38099-37901	1RB#0-0RB#0	64QAM-64QAM	21.27	21.9	33.00	PASS
38-38	100RB+100RB	38099-37901	18RB#0-0RB#0	64QAM-64QAM	21.08	21.71	33.00	PASS
38-38	100RB+100RB	38150-37952	1RB#0-0RB#0	64QAM-64QAM	21.11	21.74	33.00	PASS
38-38	100RB+100RB	38150-37952	18RB#0-0RB#0	64QAM-64QAM	21.14	21.77	33.00	PASS

sNote:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level



2 Peak-to-Average Ratio

Part I - Test Results

Test Band	PCC RB	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
CA_38C	75RB+75RB	TM1	37825-37975	6.29	13	PASS
			37925-38075	6.12	13	PASS
			38025-38175	6.32	13	PASS
			37975-37825	6.03	13	PASS
			38075-37925	5.88	13	PASS
			38175-38025	6.06	13	PASS
		TM2	37825-37975	7.68	13	PASS
			37925-38075	6.99	13	PASS
			38025-38175	6.46	13	PASS
			37975-37825	5.88	13	PASS
			38075-37925	6.12	13	PASS
			38175-38025	6.46	13	PASS
		TM3	37825-37975	7.25	13	PASS
			37925-38075	6.26	13	PASS
			38025-38175	6.41	13	PASS
			37975-37825	6.17	13	PASS
			38075-37925	7.25	13	PASS
			38175-38025	6.64	13	PASS
	100RB+100RB	TM1	37850-38048	6.38	13	PASS
			37901-38099	7.16	13	PASS
			37952-38150	6.14	13	PASS
			38048-37850	5.94	13	PASS
			38099-37901	5.88	13	PASS
			38150-37952	6.06	13	PASS
TM2		37850-38048	6.55	13	PASS	
		37901-38099	7.57	13	PASS	
		37952-38150	6.17	13	PASS	
		38048-37850	6.26	13	PASS	
		38099-37901	6.23	13	PASS	
		38150-37952	6.75	13	PASS	
TM3	37850-38048	7.54	13	PASS		
	37901-38099	8.38	13	PASS		
	37952-38150	7.16	13	PASS		

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Test Band	PCC RB	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
			38048-37850	6.38	13	PASS
			38099-37901	6.67	13	PASS
			38150-37952	6.70	13	PASS

2.1 For LTE_CA_38C

2.1.1 Test Band = Bandwidth=75RB+75RB

2.1.1.1 Test Mode = LTE/TM1

2.1.1.1.1 Test Channel = 37825-37975



Date: 31.JUL.2018 12:32:44

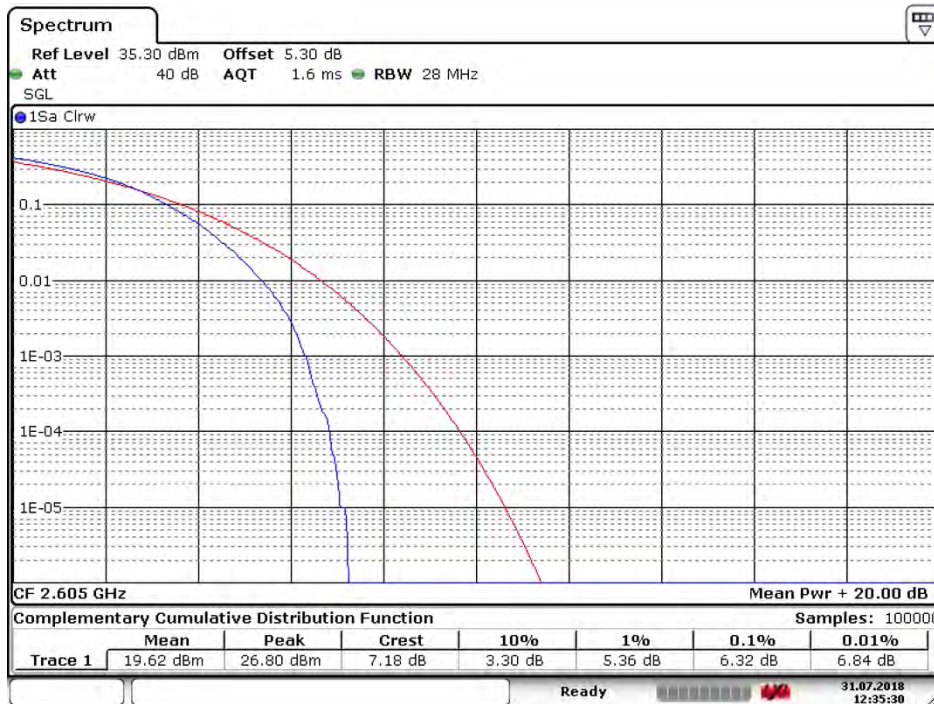


2.1.1.1.2 Test Channel = 37925-38075



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2.1.1.1.3 Test Channel = 38025-38175



Date: 31.JUL.2018 12:35:31

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2.1.1.1.4 Test Channel = 37975-37825



Date: 1.AUG.2018 03:09:51

2.1.1.1.5 Test Channel = 38075-37925



Date: 1.AUG.2018 03:12:13



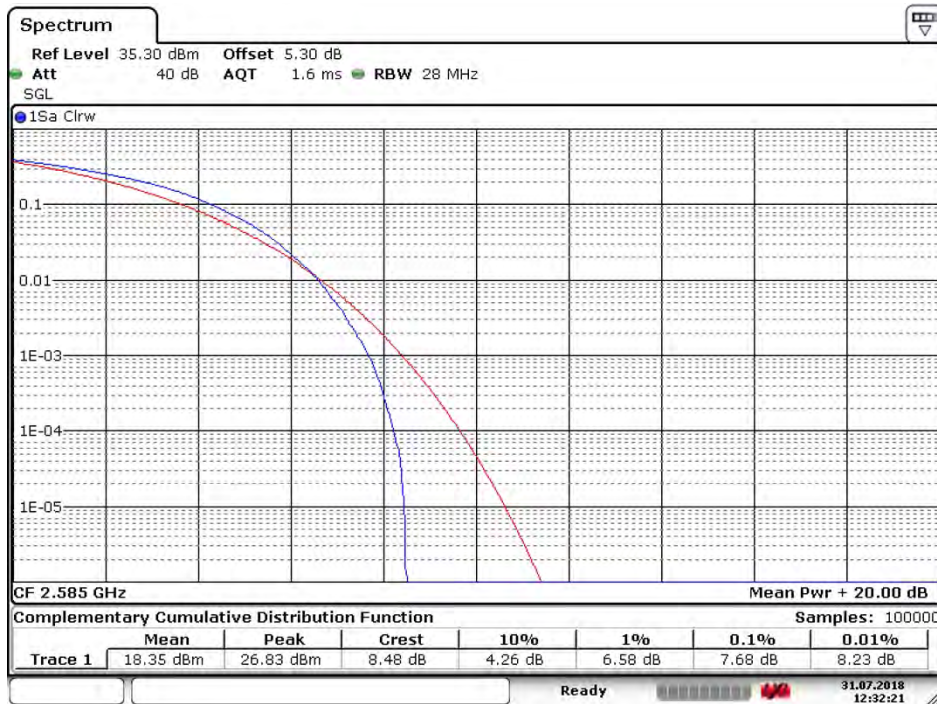
2.1.1.1.6 Test Channel = 38175-38025



Date: 1.AUG.2018 03:17:31

2.1.1.2 Test Mode = LTE/TM2

2.1.1.2.1 Test Channel = 37825-37975



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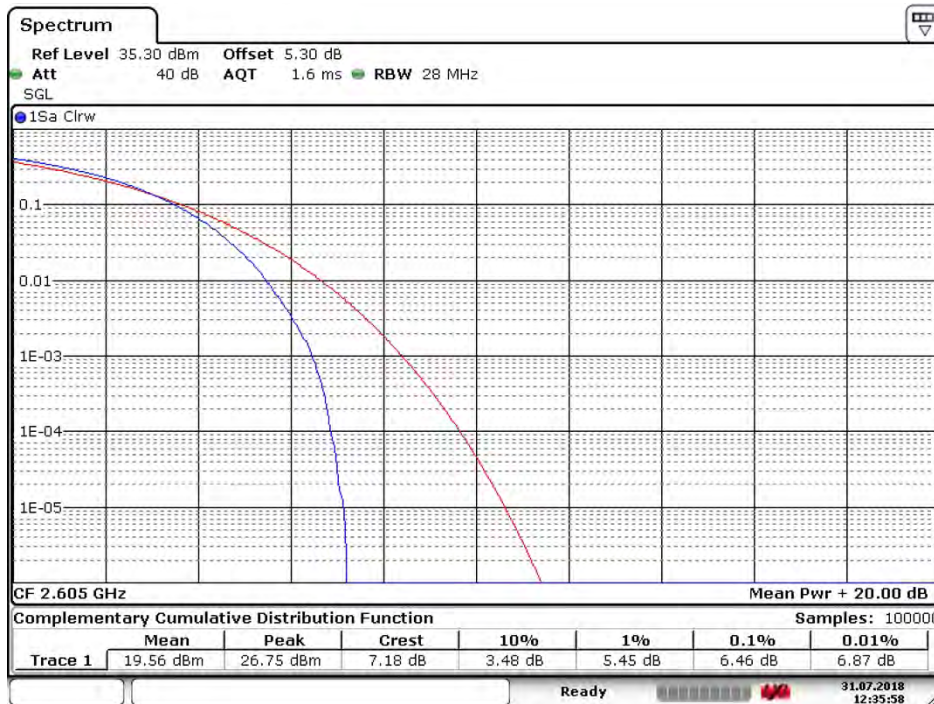


2.1.1.2.2 Test Channel = 37925-38075



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2.1.1.2.3 Test Channel = 38025-38175



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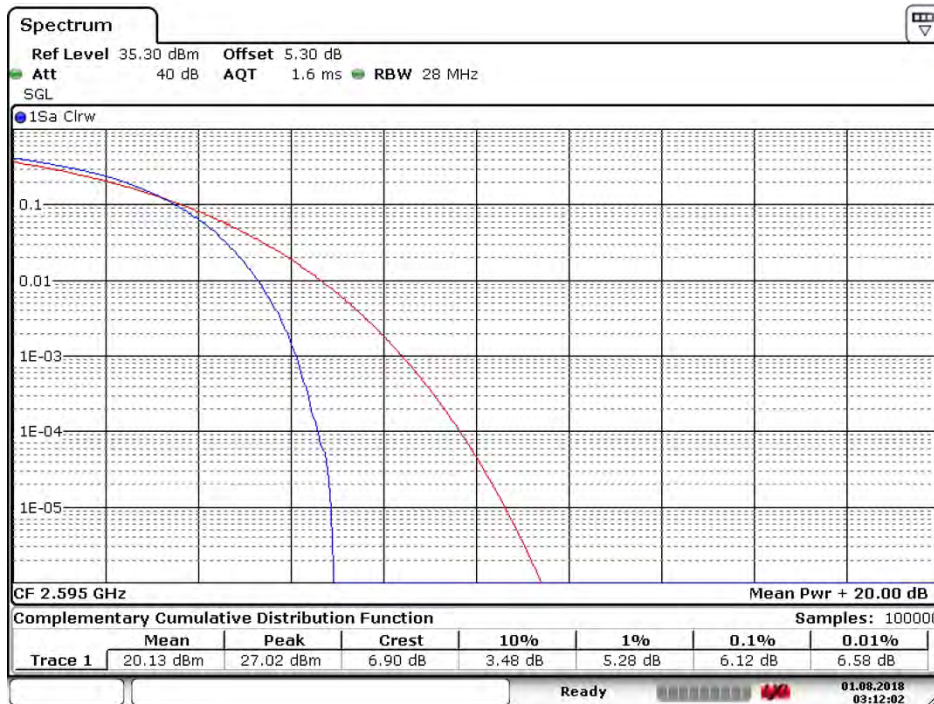


2.1.1.2.4 Test Channel = 37975-37825



Date: 1.AUG.2018 03:10:08

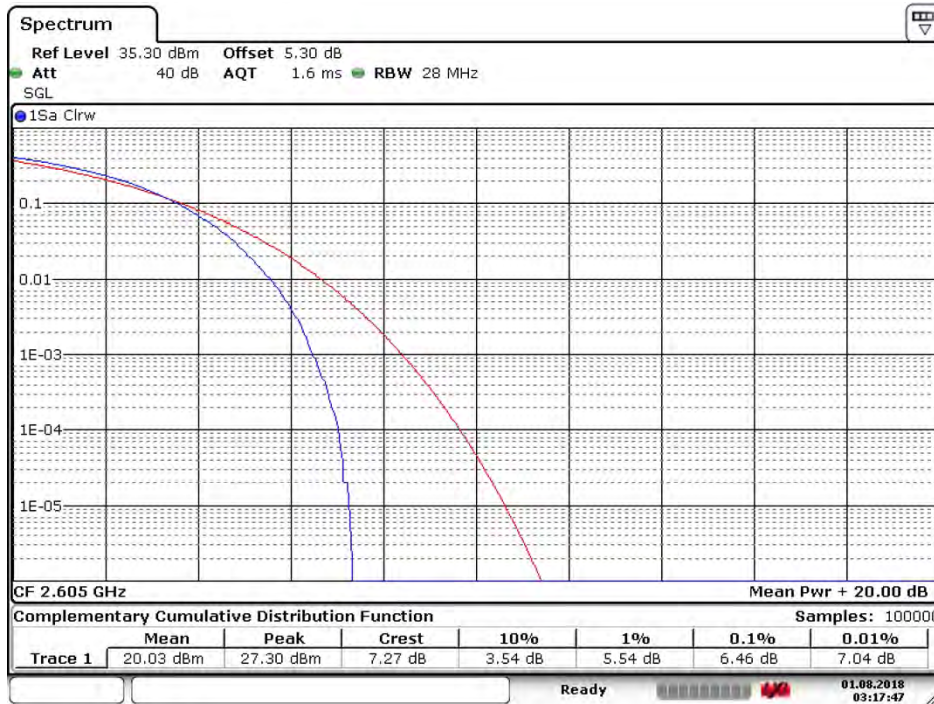
2.1.1.2.5 Test Channel = 38075-37925



Date: 1.AUG.2018 03:12:03

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2.1.1.2.6 Test Channel = 38175-38025



Date: 1.AUG.2018 03:17:48

2.1.1.3 Test Mode = LTE/TM3

2.1.1.3.1 Test Channel = 37825-37975



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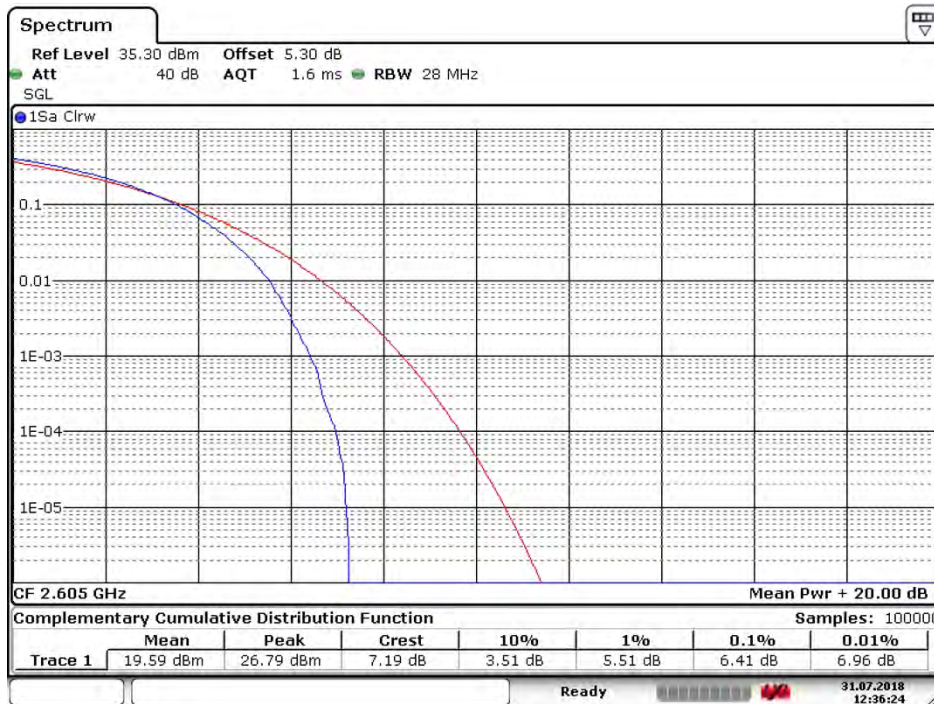


2.1.1.3.2 Test Channel = 37925-38075



Date: 31.JUL.2018 03:52:55

2.1.1.3.3 Test Channel = 38025-38175

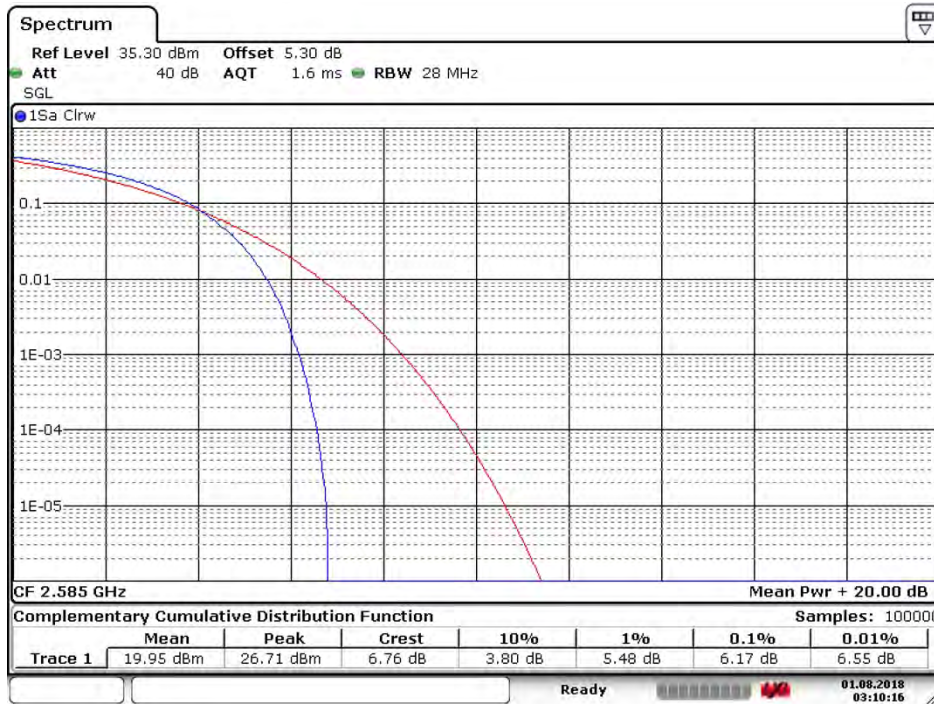


Date: 31.JUL.2018 12:36:24

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2.1.1.3.4 Test Channel = 37975-37825



Date: 1.AUG.2018 03:10:16

2.1.1.3.5 Test Channel = 38075-37925

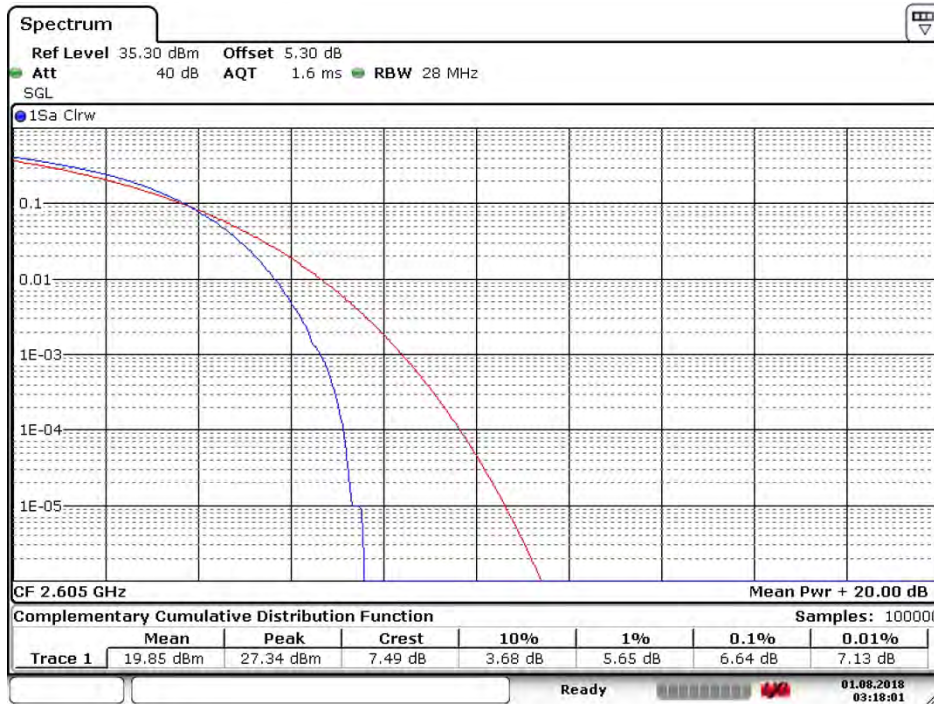


Date: 1.AUG.2018 03:11:42

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2.1.1.3.6 Test Channel = 38175-38025

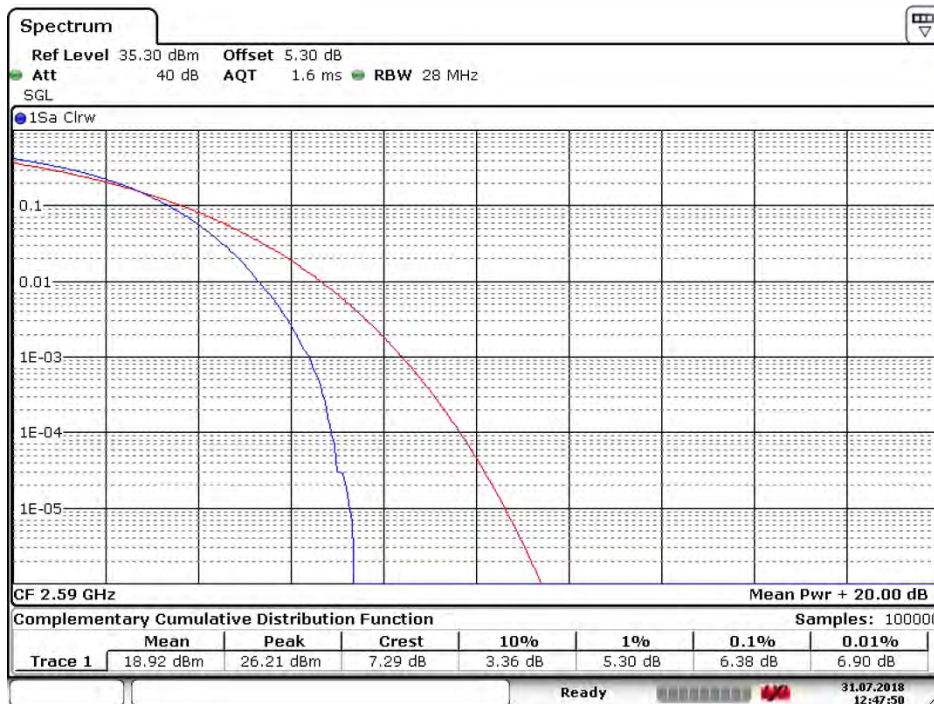


Date: 1.AUG.2018 03:18:02

2.1.2 Test Band = Bandwidth=100RB+100RB

2.1.2.1 Test Mode = LTE/TM1

2.1.2.1.1 Test Channel = 37850-38048

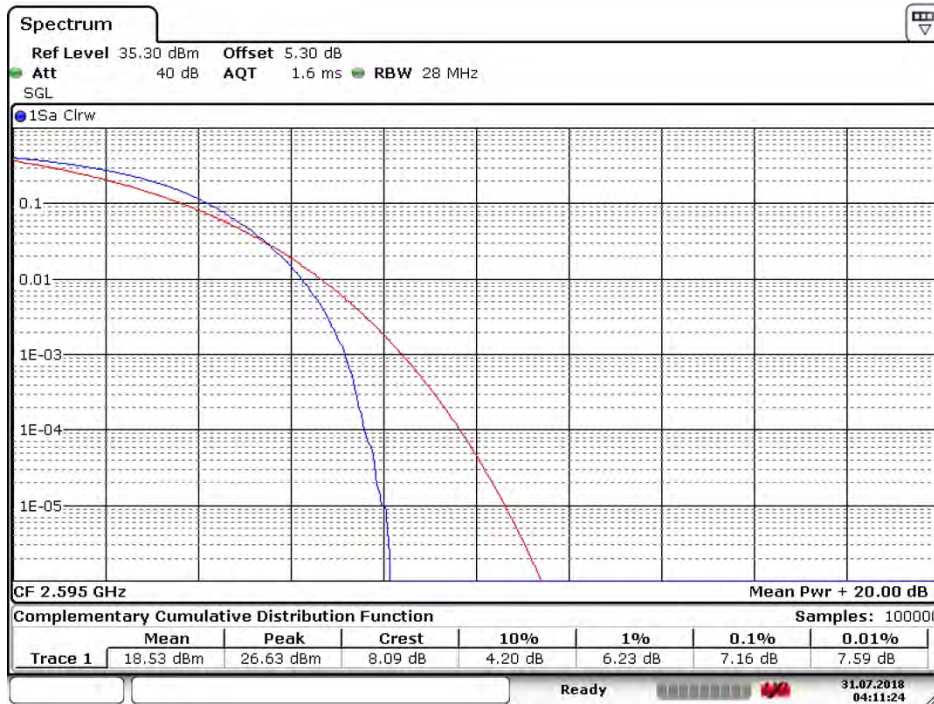


Date: 31.JUL.2018 12:47:50

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2.1.2.1.2 Test Channel = 37901-38099



Date: 31.JUL.2018 04:11:24

2.1.2.1.3 Test Channel = 37952-38150

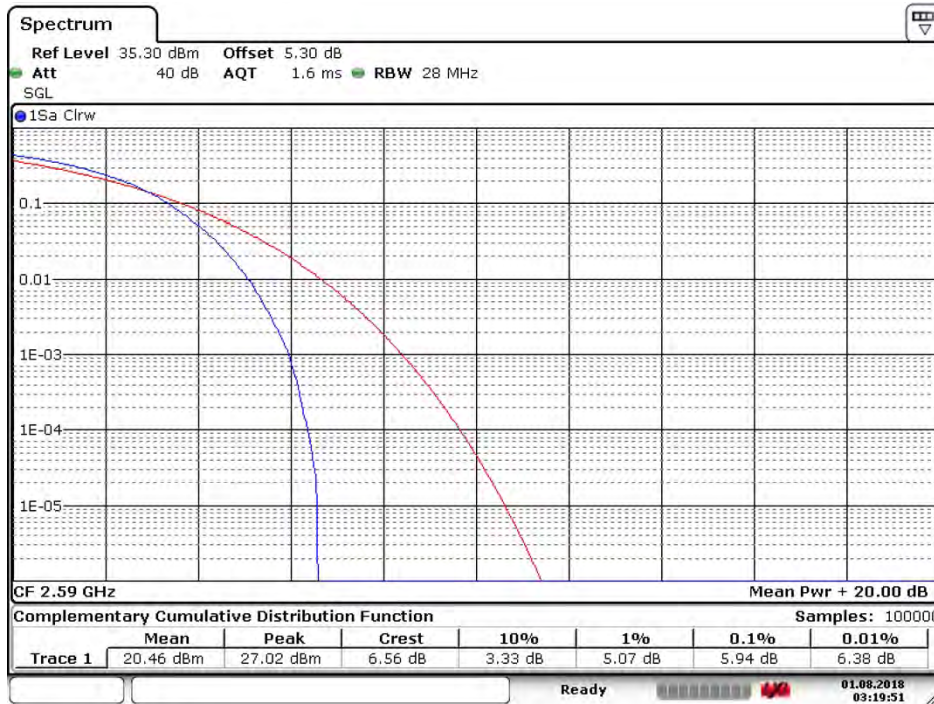


Date: 31.JUL.2018 12:48:47

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2.1.2.1.4 Test Channel = 38048-37850



Date: 1.AUG.2018 03:19:51

2.1.2.1.5 Test Channel = 38099-37901



Date: 1.AUG.2018 03:26:07



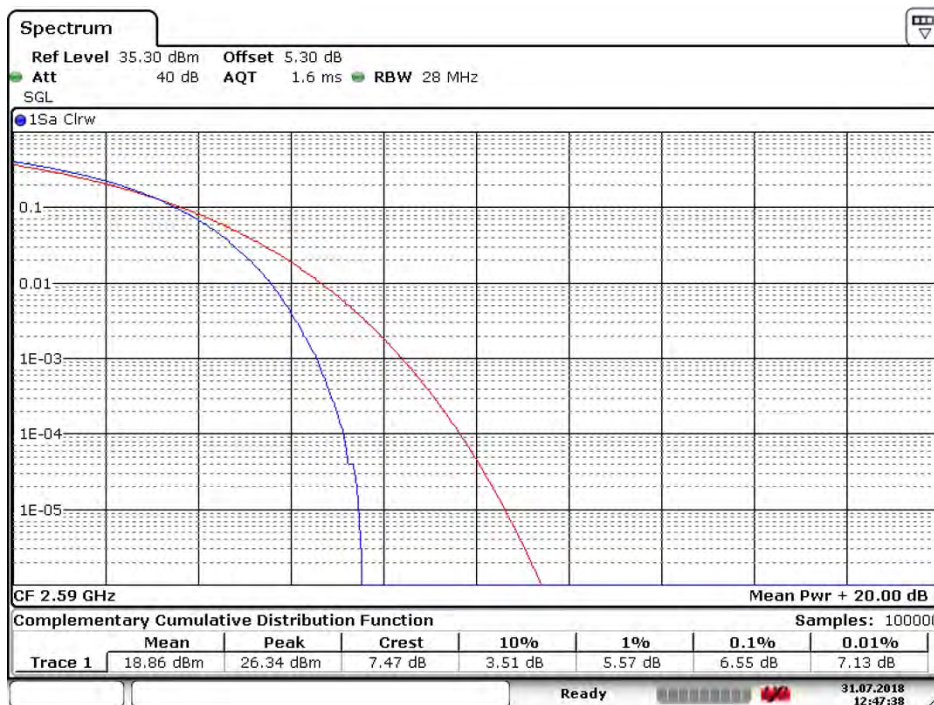
2.1.2.1.6 Test Channel = 38150-37952



Date: 1.AUG.2018 03:30:08

2.1.2.2 Test Mode = LTE/TM2

2.1.2.2.1 Test Channel = 37850-38048



Date: 31.JUL.2018 12:47:38

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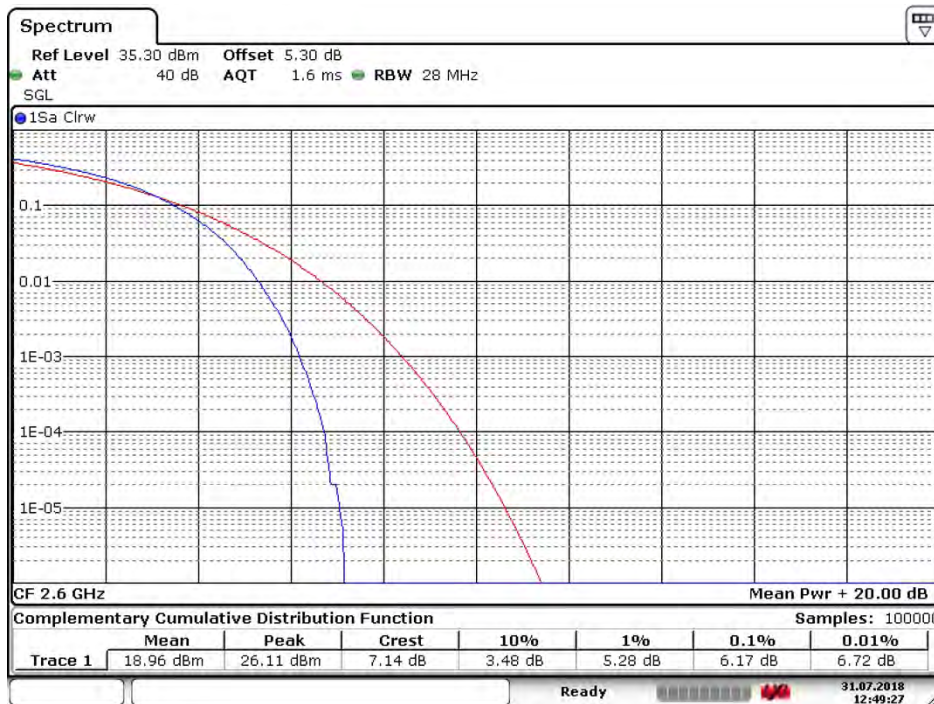


2.1.2.2.2 Test Channel = 37901-38099



Date: 31.JUL.2018 04:09:56

2.1.2.2.3 Test Channel = 37952-38150

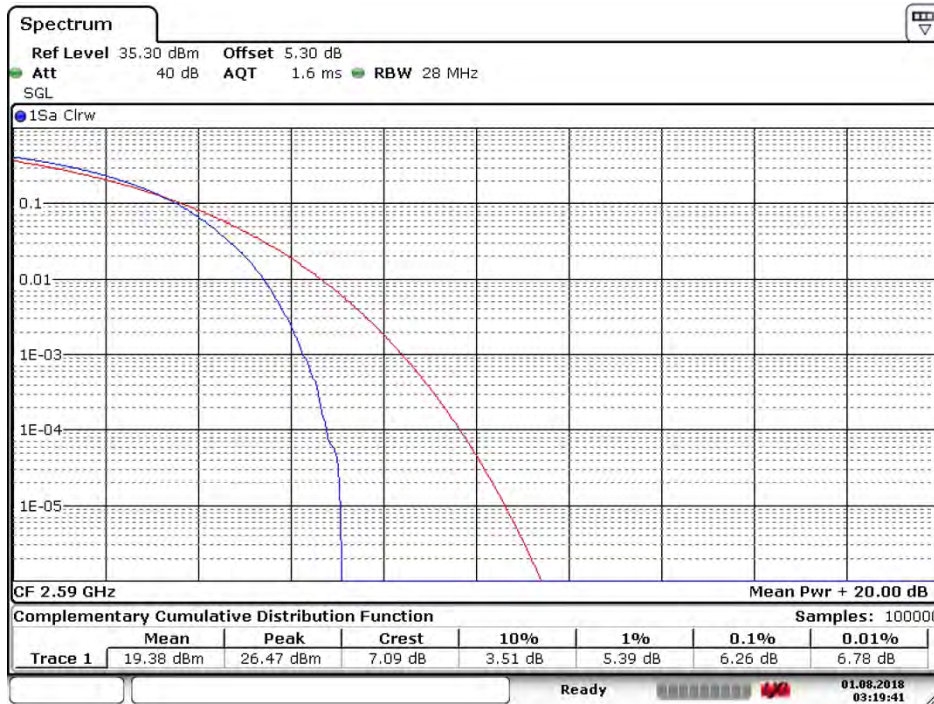


Date: 31.JUL.2018 12:49:27

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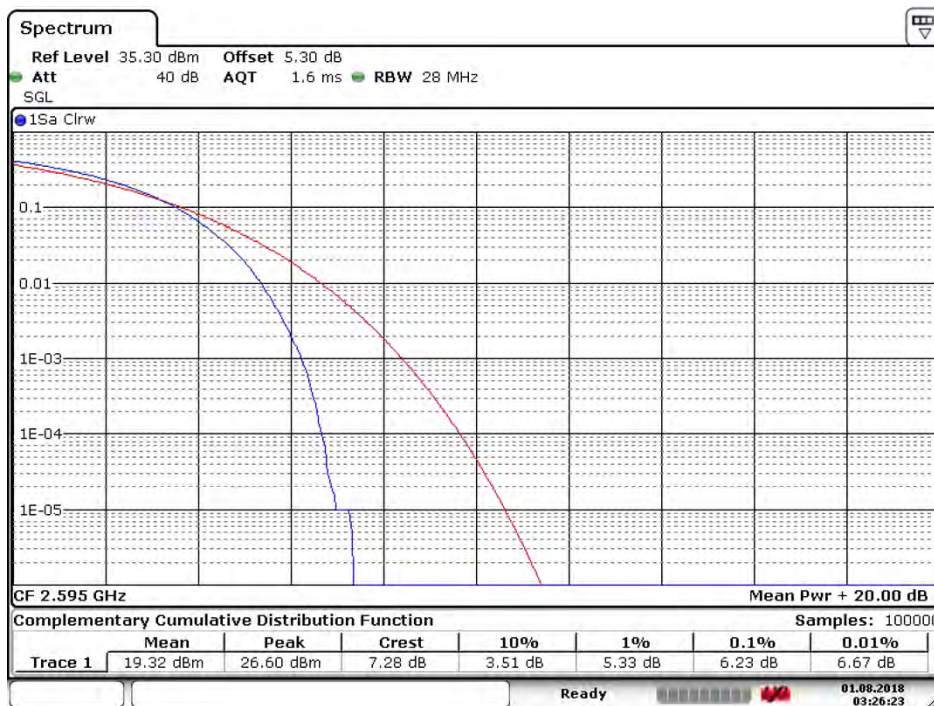


2.1.2.2.4 Test Channel = 38048-37850



Date: 1.AUG.2018 03:19:41

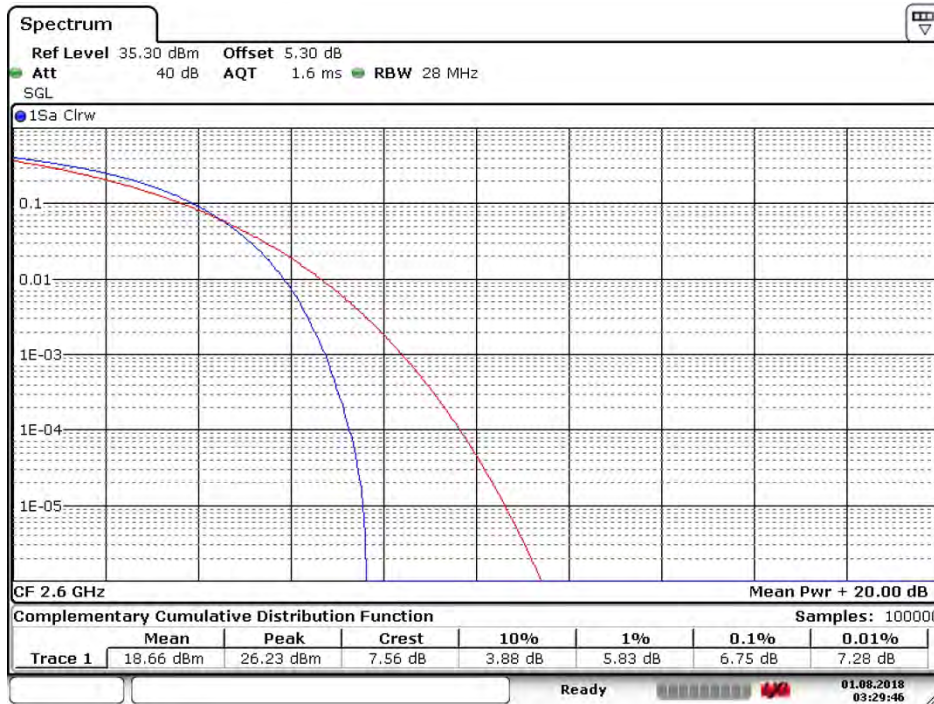
2.1.2.2.5 Test Channel = 38099-37901



Date: 1.AUG.2018 03:26:24



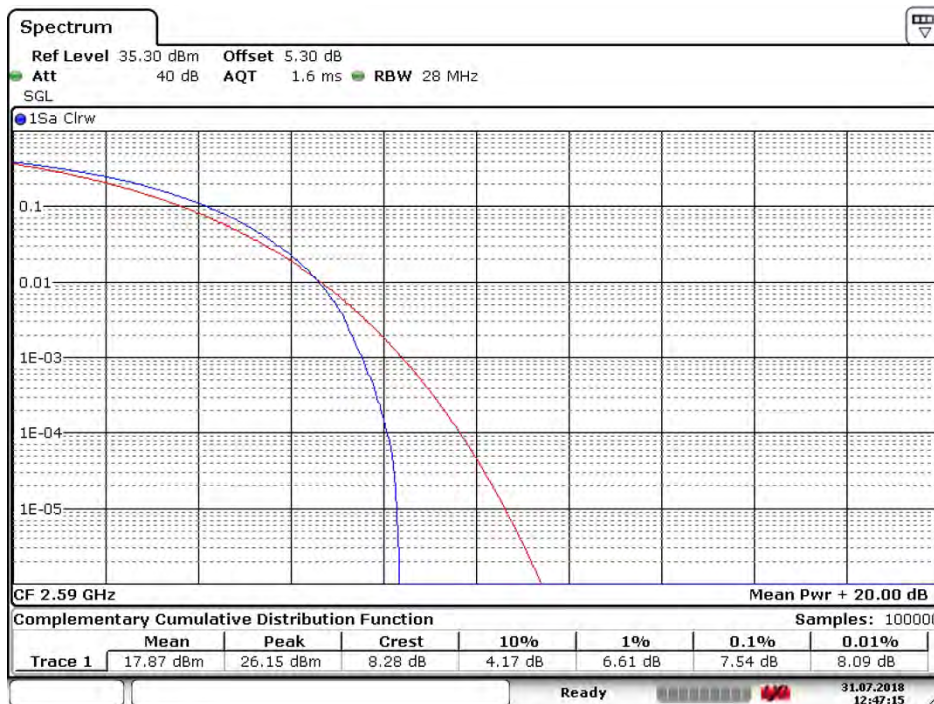
2.1.2.2.6 Test Channel = 38150-37952



Date: 1.AUG.2018 03:29:46

2.1.2.3 Test Mode = LTE/TM3

2.1.2.3.1 Test Channel = 37850-38048



Date: 31.JUL.2018 12:47:15

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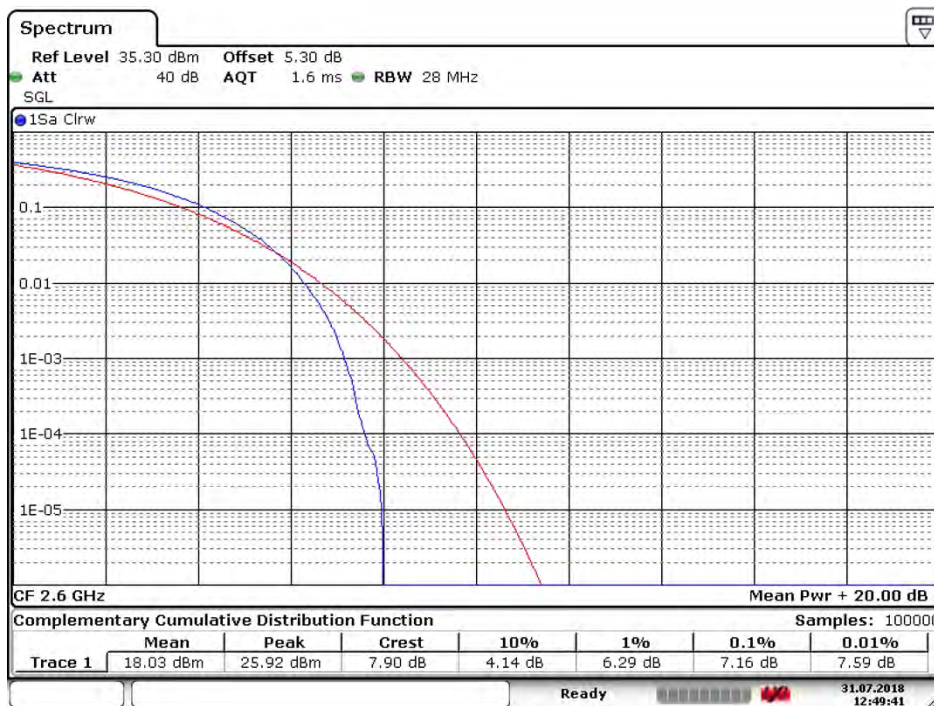


2.1.2.3.2 Test Channel = 37901-38099



Date: 31.JUL.2018 04:09:34

2.1.2.3.3 Test Channel = 37952-38150

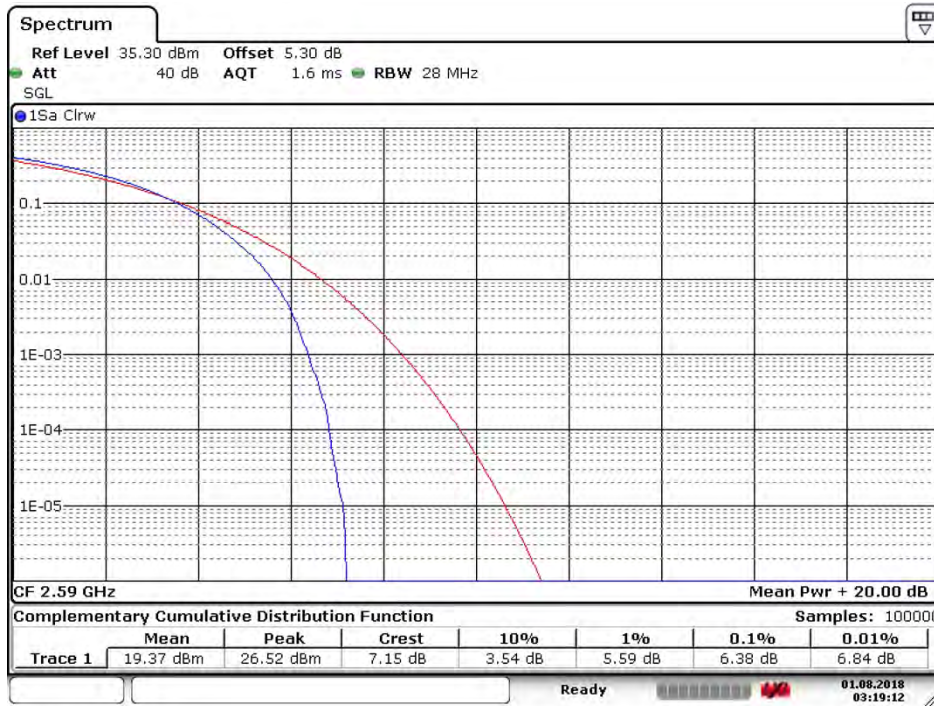


Date: 31.JUL.2018 12:49:41

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2.1.2.3.4 Test Channel = 38048-37850



Date: 1.AUG.2018 03:19:12

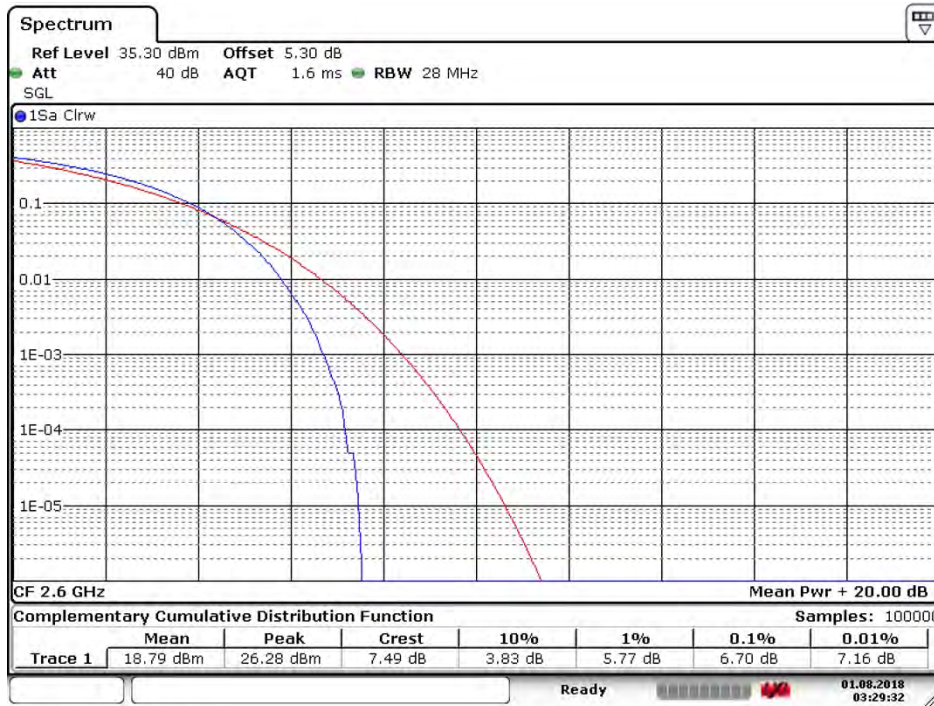
2.1.2.3.5 Test Channel = 38099-37901



Date: 1.AUG.2018 03:26:31



2.1.2.3.6 Test Channel = 38150-37952



Date: 1.AUG.2018 03:29:32

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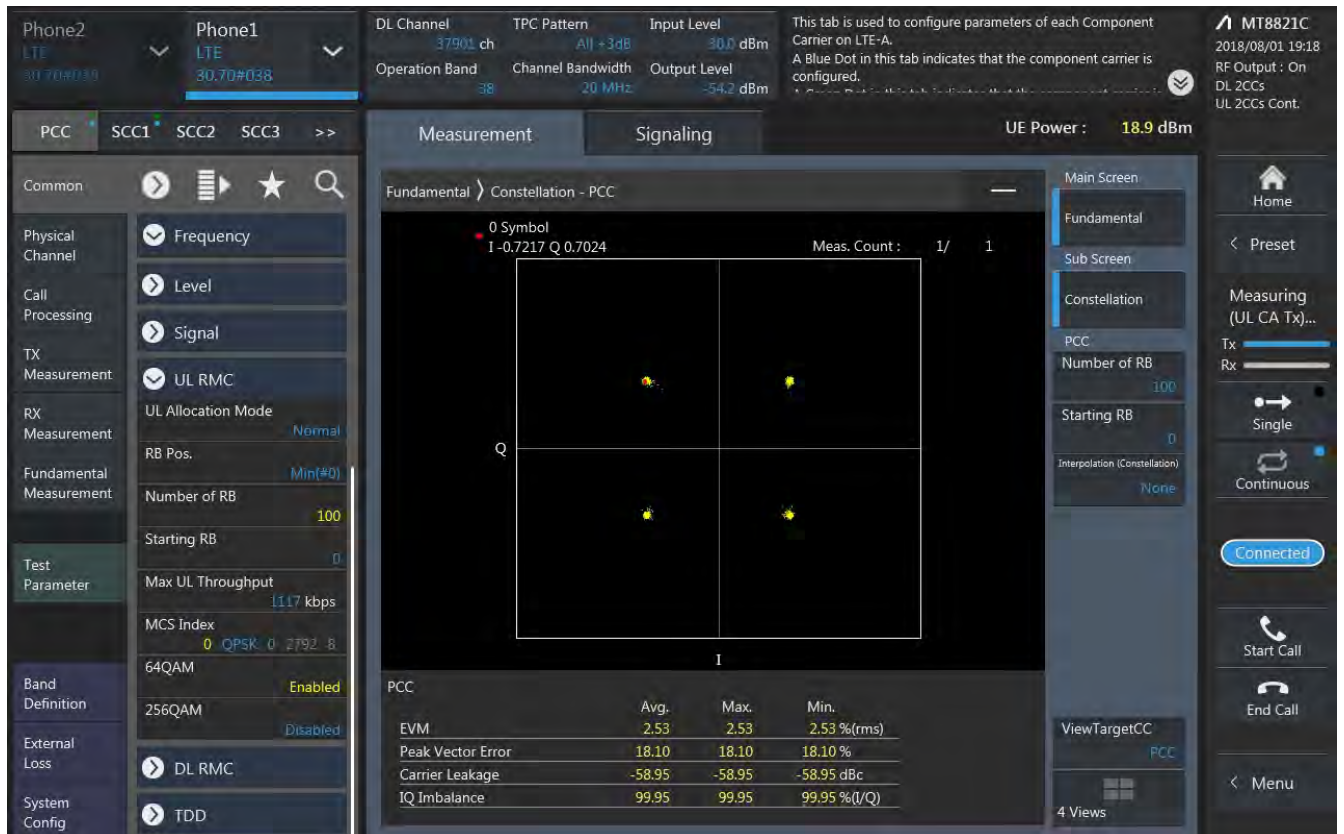
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_38C

3.1.1.1 Test Mode = LTE /TM1 100RB+100RB

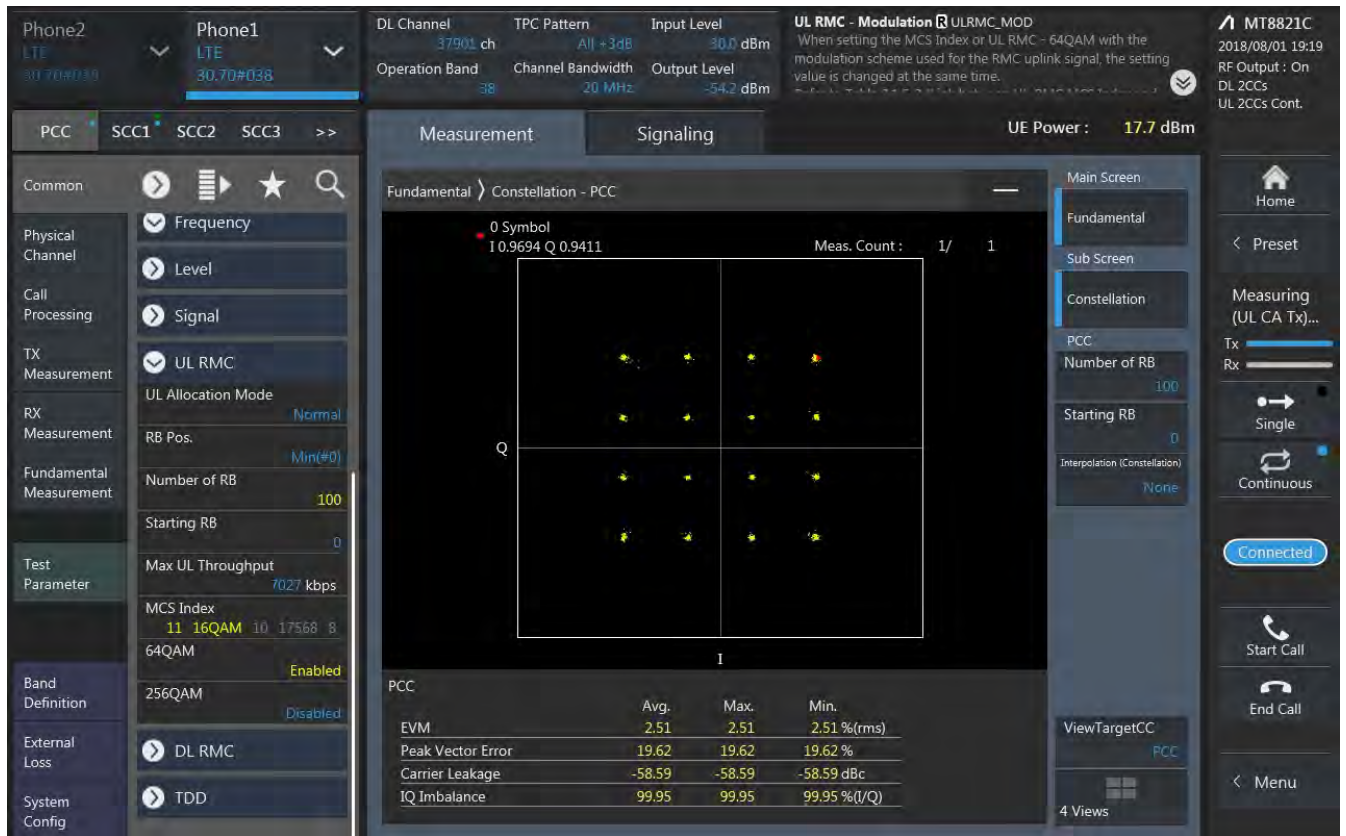
3.1.1.1.1 Test Channel = MCH





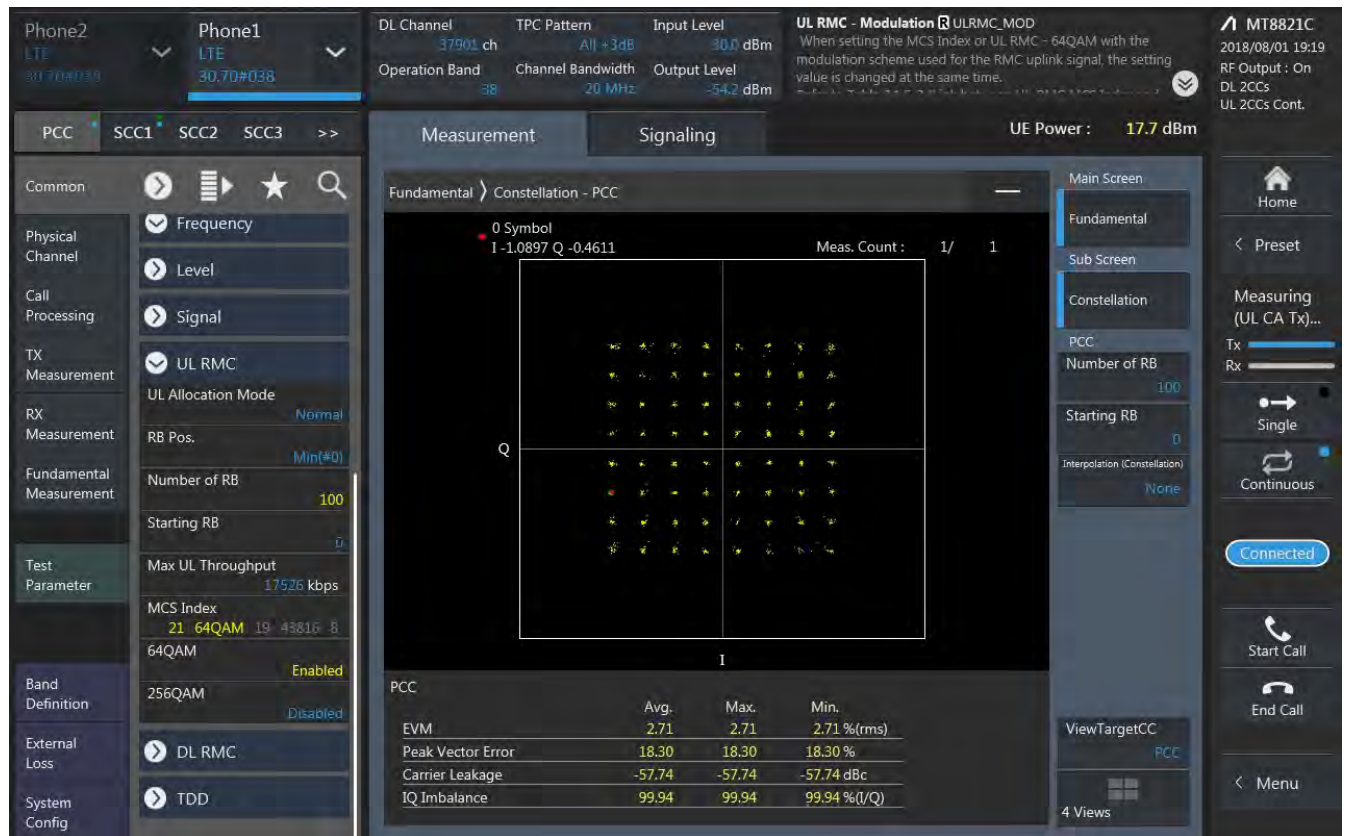
3.1.1.2 Test Mode = LTE /TM2 100RB+100RB

3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM3 100RB+100RB
3.1.1.3.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	PCC RB	Test Mode	Test Channel	OBW	EBW
CA_38C	75RB+75RB	TM1	37825-37975	28.29	29.97
			37925-38075	28.23	29.91
			38025-38175	28.23	29.73
			37975-37825	28.29	29.91
			38075-37925	28.35	29.97
			38175-38025	28.35	29.85
		TM2	37825-37975	28.23	29.91
			37925-38075	28.29	29.91
			38025-38175	28.23	29.91
			37975-37825	28.35	29.91
			38075-37925	28.35	29.91
			38175-38025	28.23	29.91
	TM3	37825-37975	28.23	29.85	
		37925-38075	28.29	29.97	
		38025-38175	28.23	29.79	
		37975-37825	28.35	29.97	
		38075-37925	28.29	29.79	
		38175-38025	28.35	29.97	
	100RB+100RB	TM1	37850-38048	37.48	39.72
			37901-38099	37.40	39.56
			37952-38150	37.48	39.72
			38048-37850	37.56	39.80
			38099-37901	37.64	39.80
			38150-37925	37.56	39.64
TM2		37850-38048	37.48	39.72	
		37901-38099	37.48	39.80	
		37952-38150	37.64	39.56	
		38048-37850	37.64	39.64	
		38099-37901	37.64	39.80	
		38150-37925	37.64	39.72	
TM3	37850-38048	37.48	39.56		
	37901-38099	37.56	39.56		
	37952-38150	37.56	39.56		
	38048-37850	37.64	39.88		



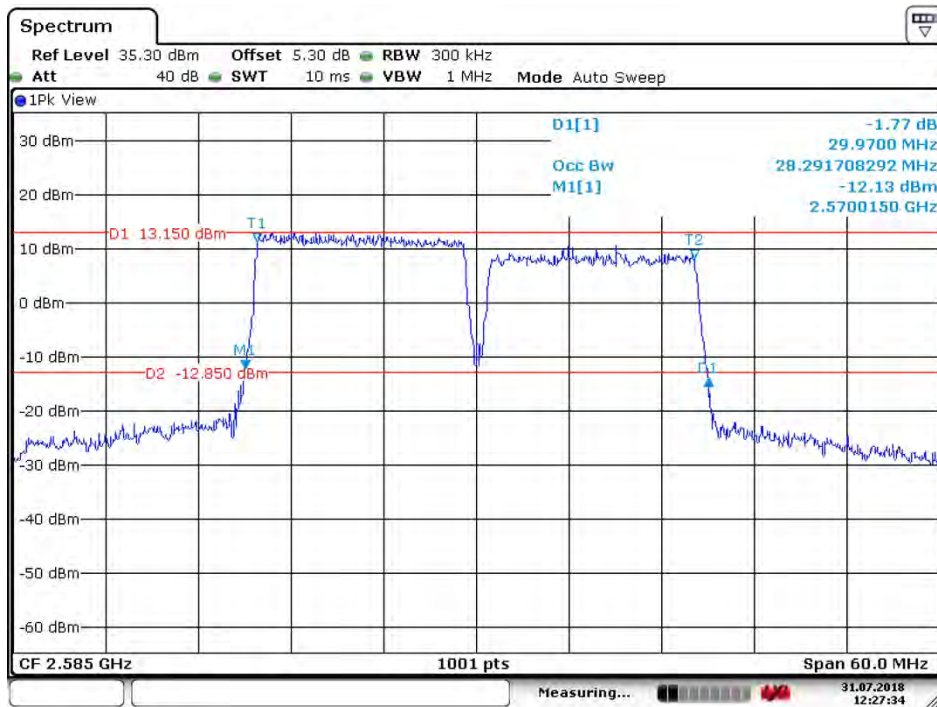
Test Band	PCC RB	Test Mode	Test Channel	OBW	EBW
			38099-37901	37.56	39.80
			38150-37925	37.56	39.96

4.1 For LTE_CA_38C

4.1.1 Test Band = Bandwidth=75RB+75RB

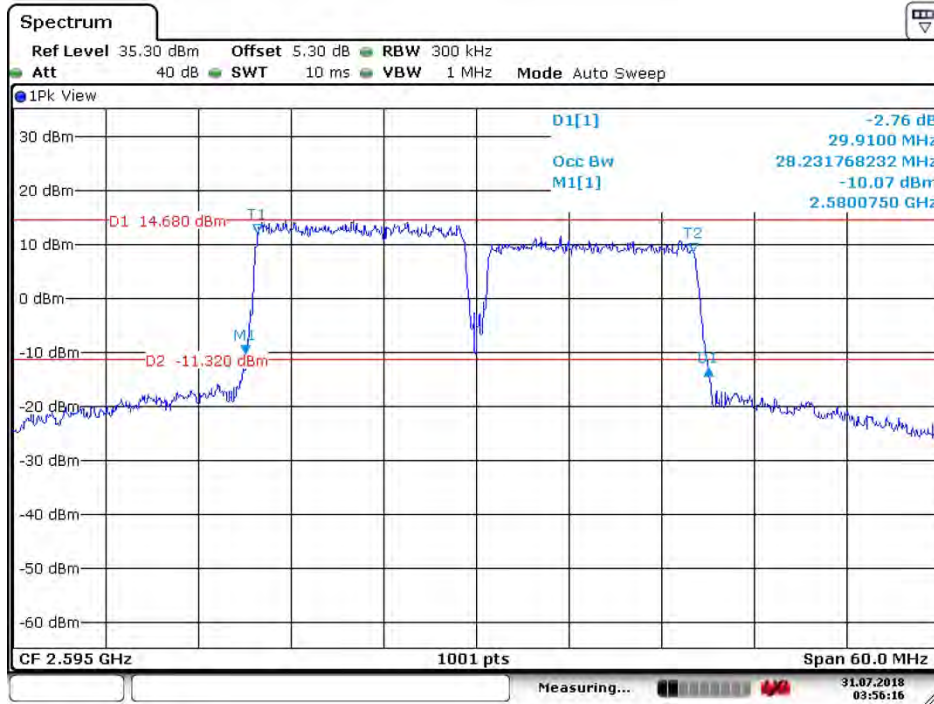
4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Channel = 37825-37975



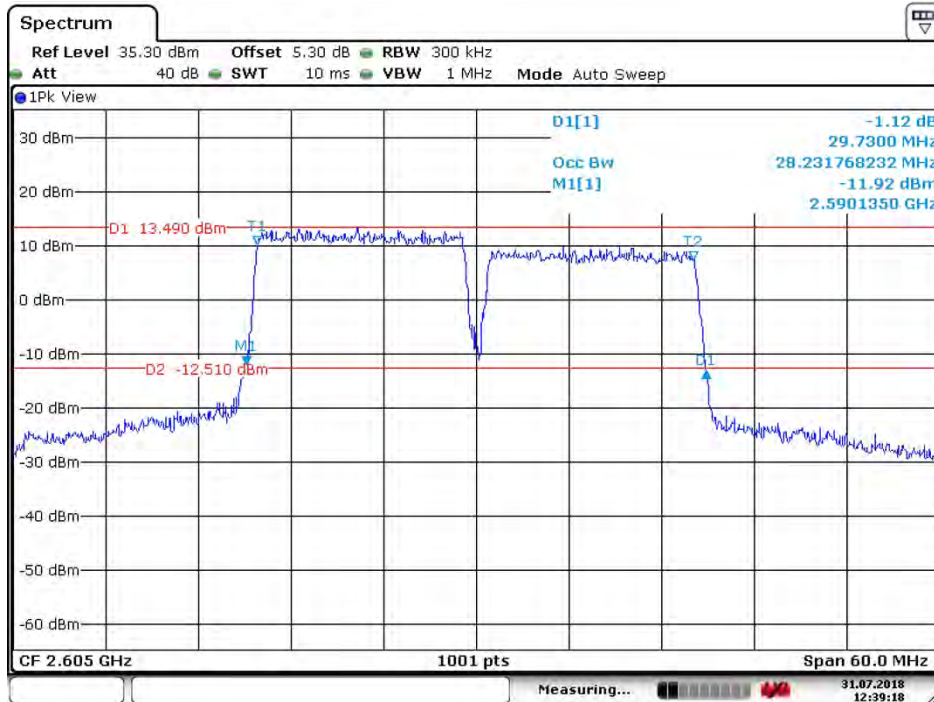
Date: 31.JUL.2018 12:27:35

4.1.1.1.2 Test Channel = 37925-38075



Date: 31.JUL.2018 03:56:16

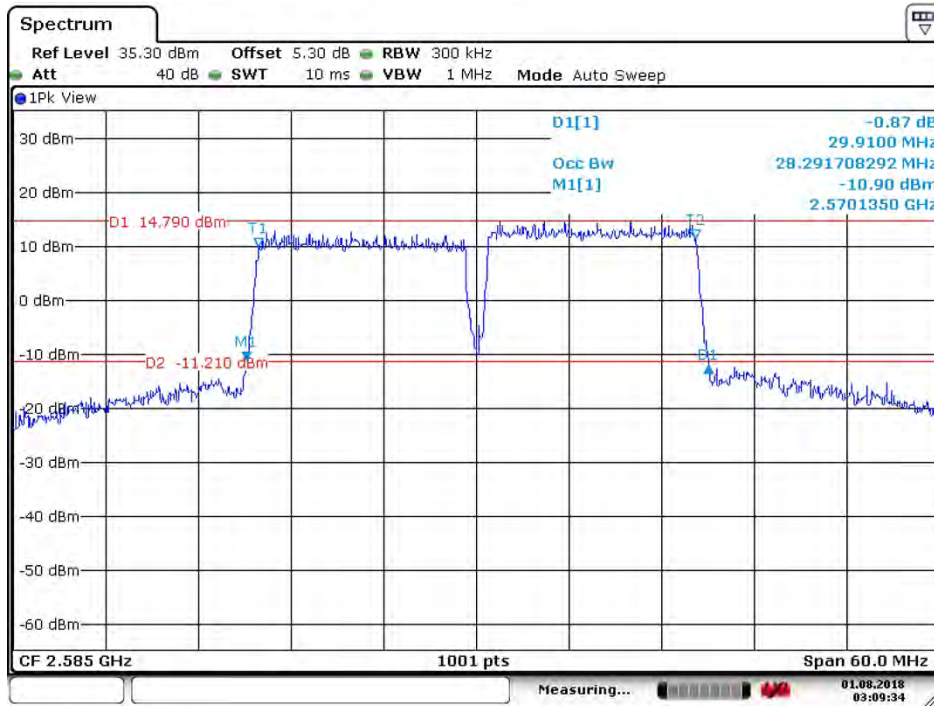
4.1.1.1.3 Test Channel = 38025-38175



Date: 31.JUL.2018 12:39:19

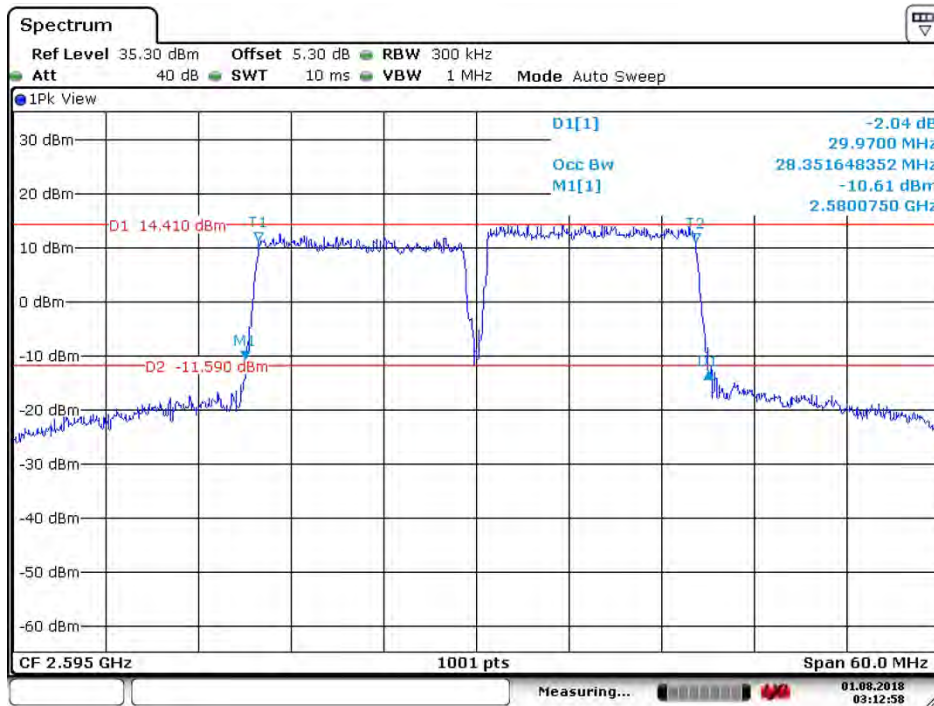


4.1.1.1.4 Test Channel = 37975-37825



Date: 1.AUG.2018 03:09:34

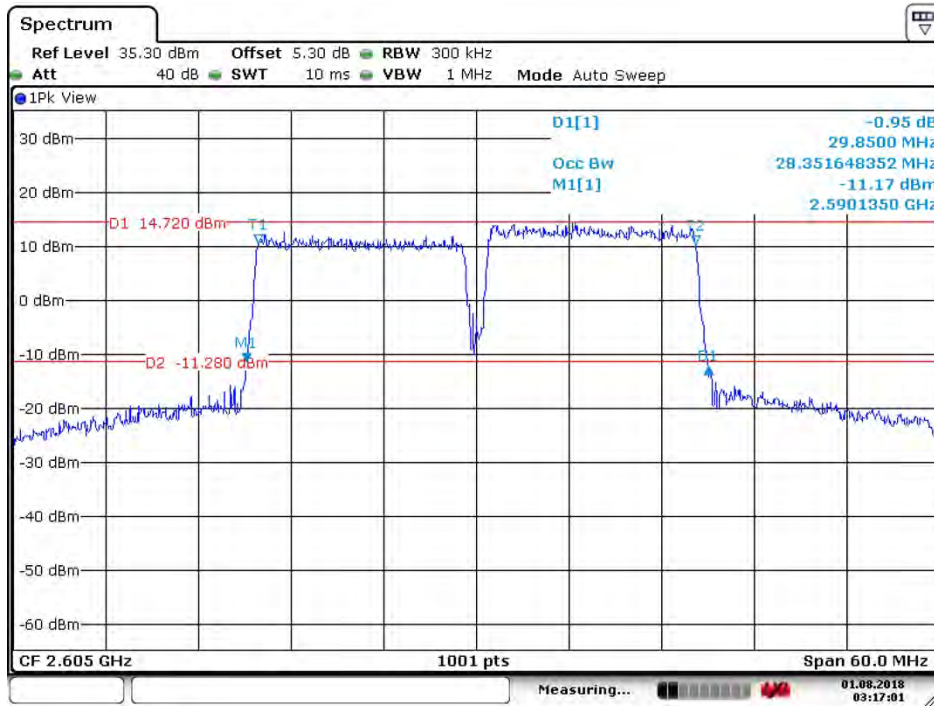
4.1.1.1.5 Test Channel = 38075-37925



Date: 1.AUG.2018 03:12:58



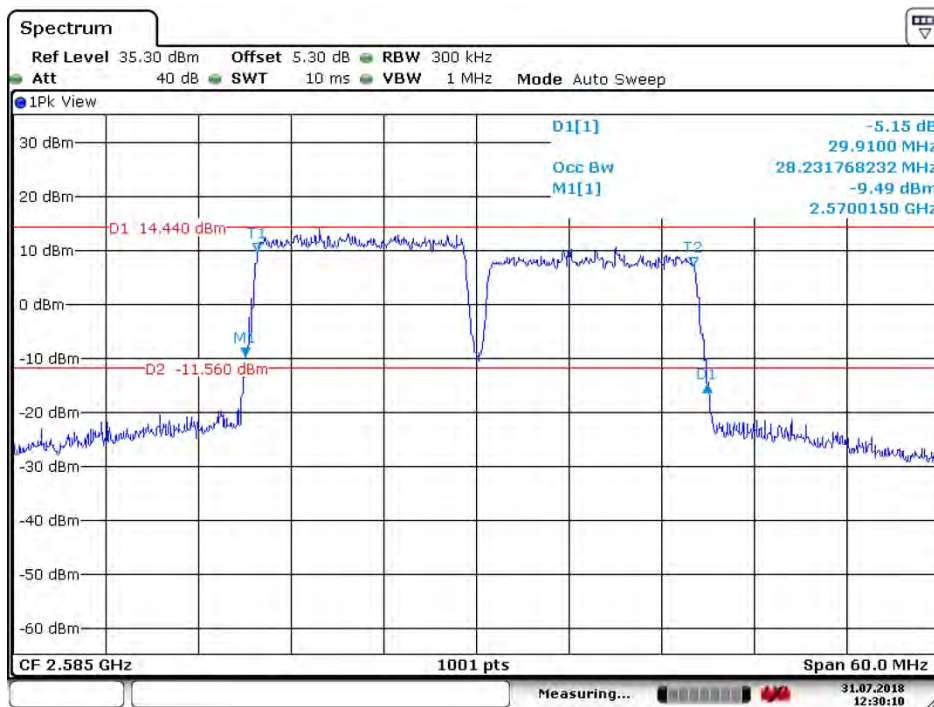
4.1.1.1.6 Test Channel = 38175-38025



Date: 1.AUG.2018 03:17:01

4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Channel = 37825-37975

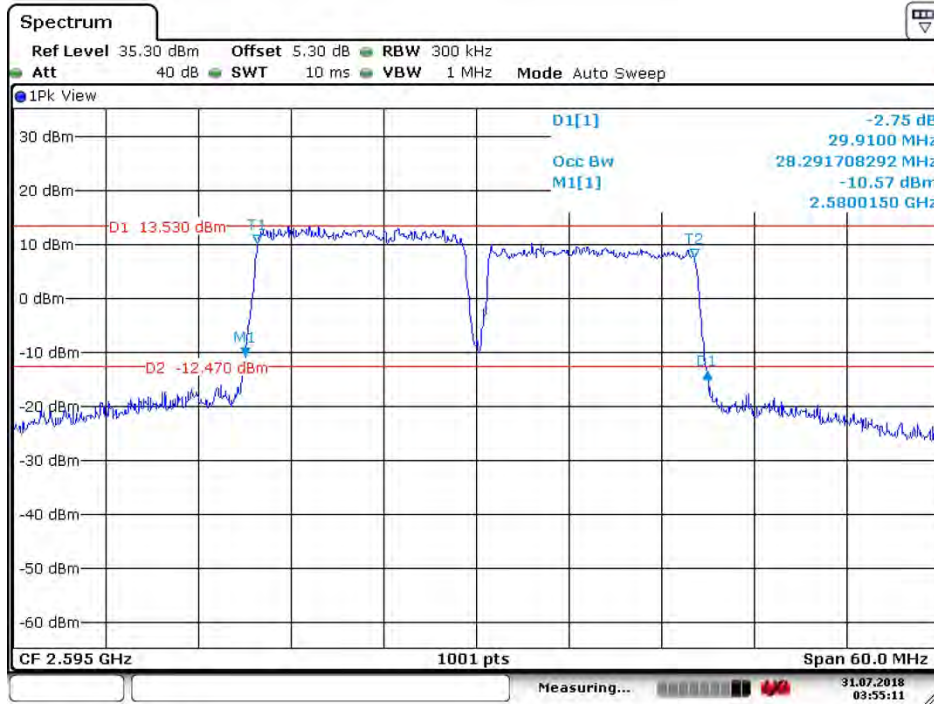


Date: 31.JUL.2018 12:30:10

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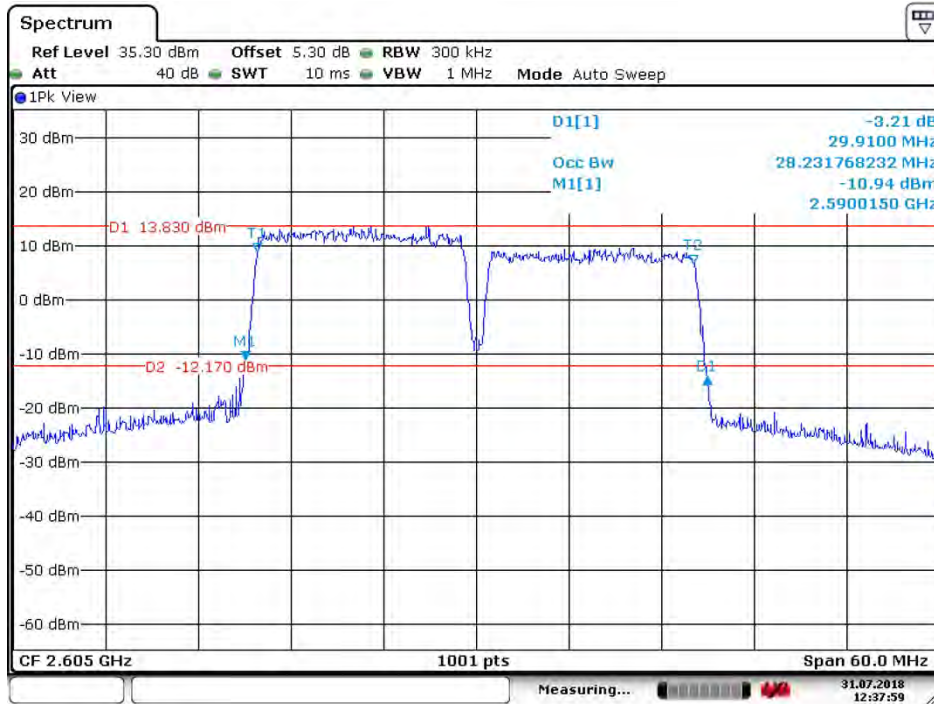


4.1.1.2.2 Test Channel = 37925-38075



Date: 31.JUL.2018 03:55:12

4.1.1.2.3 Test Channel = 38025-38175

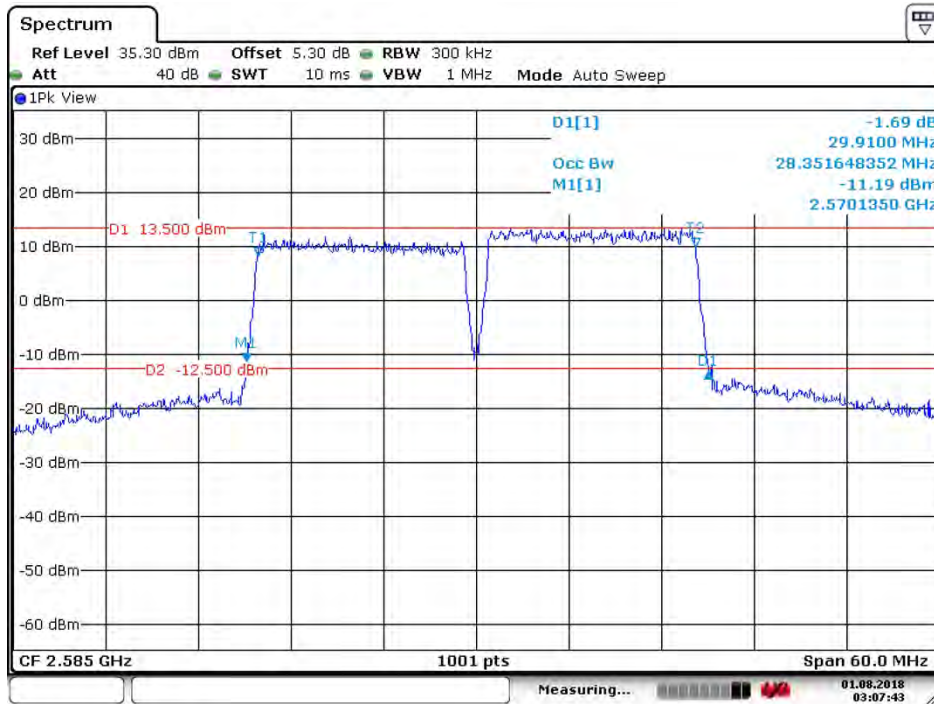


Date: 31.JUL.2018 12:37:59

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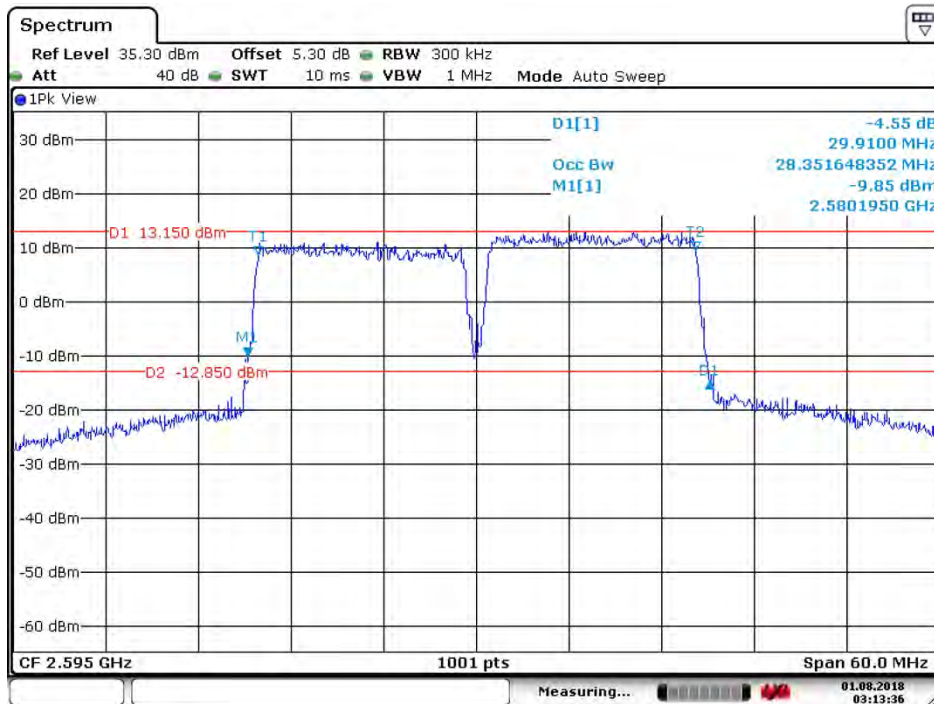


4.1.1.2.4 Test Channel = 37975-37825



Date: 1.AUG.2018 03:07:44

4.1.1.2.5 Test Channel = 38075-37925

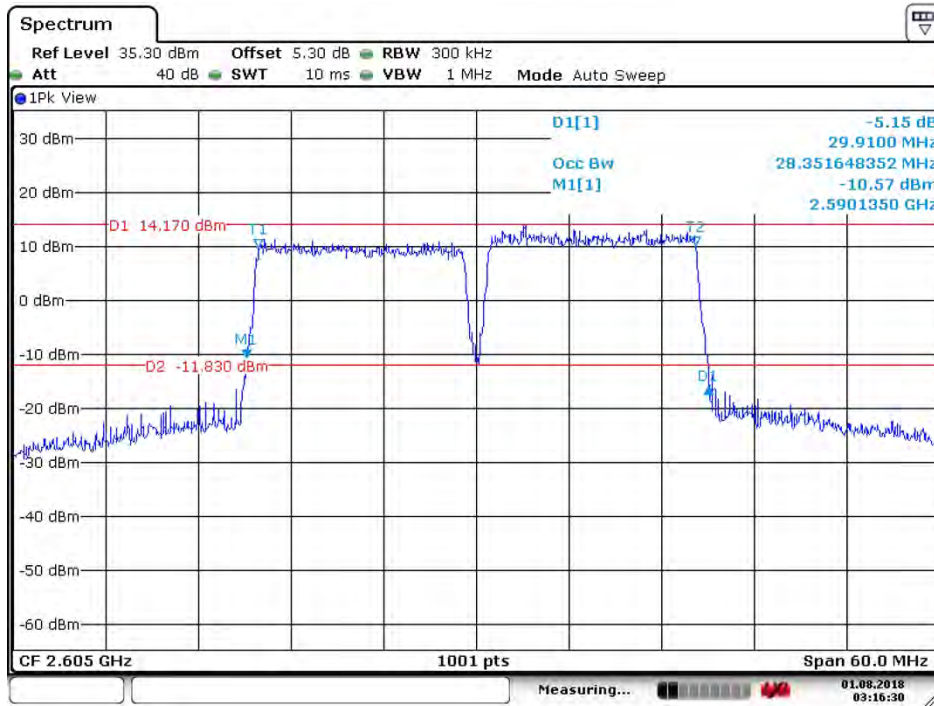


Date: 1.AUG.2018 03:13:37

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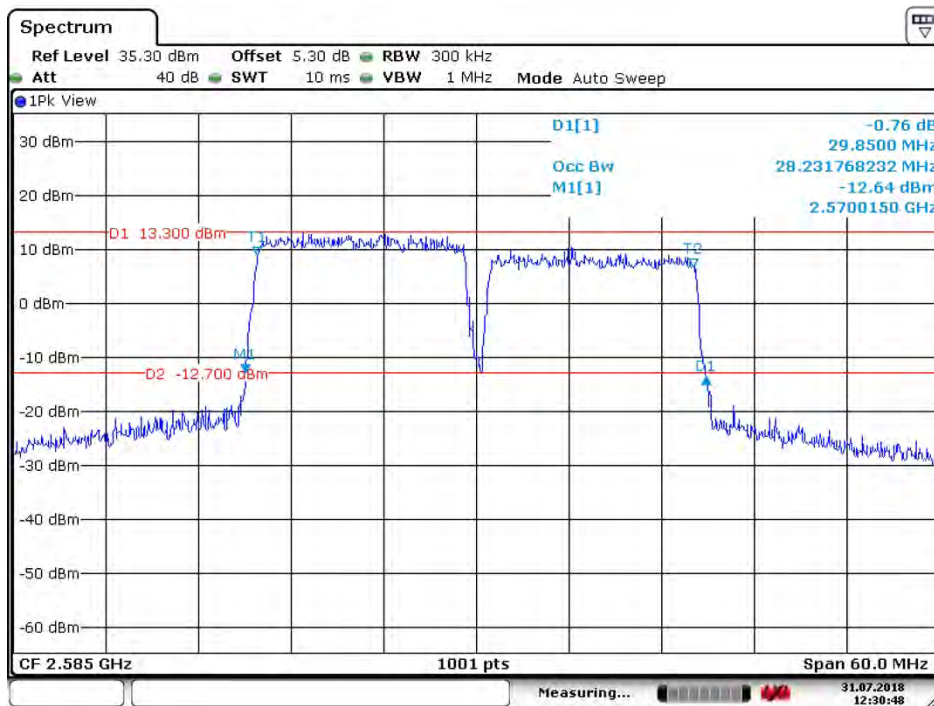
4.1.1.2.6 Test Channel = 38175-38025



Date: 1.AUG.2018 03:16:31

4.1.1.3 Test Mode = LTE/TM3

4.1.1.3.1 Test Channel = 37825-37975

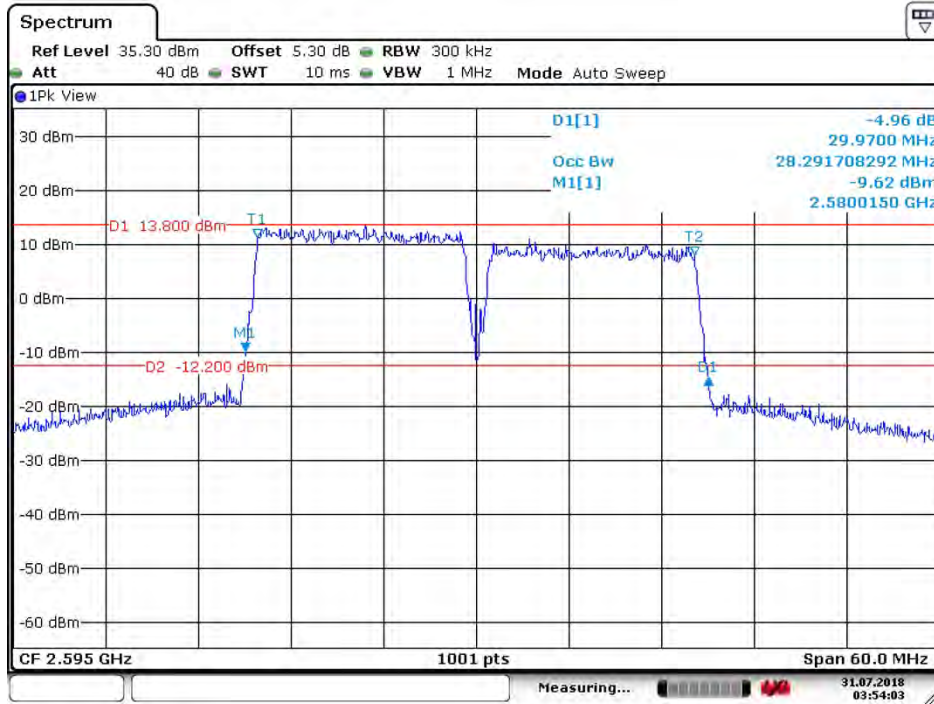


Date: 31.JUL.2018 12:30:48

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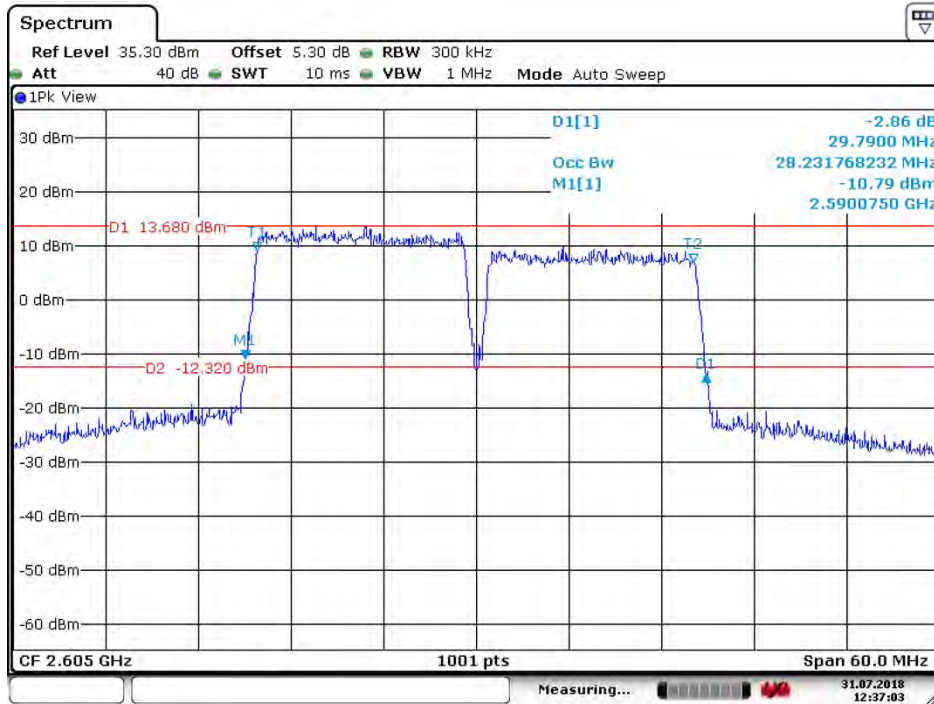


4.1.1.3.2 Test Channel = 37925-38075



Date: 31.JUL.2018 03:54:03

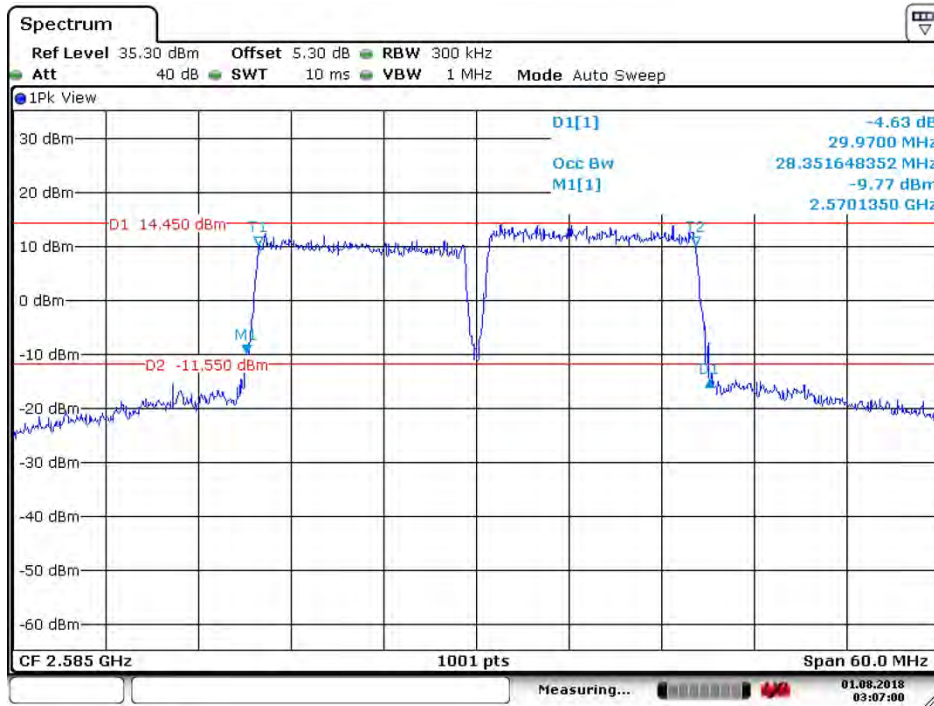
4.1.1.3.3 Test Channel = 38025-38175



Date: 31.JUL.2018 12:37:03

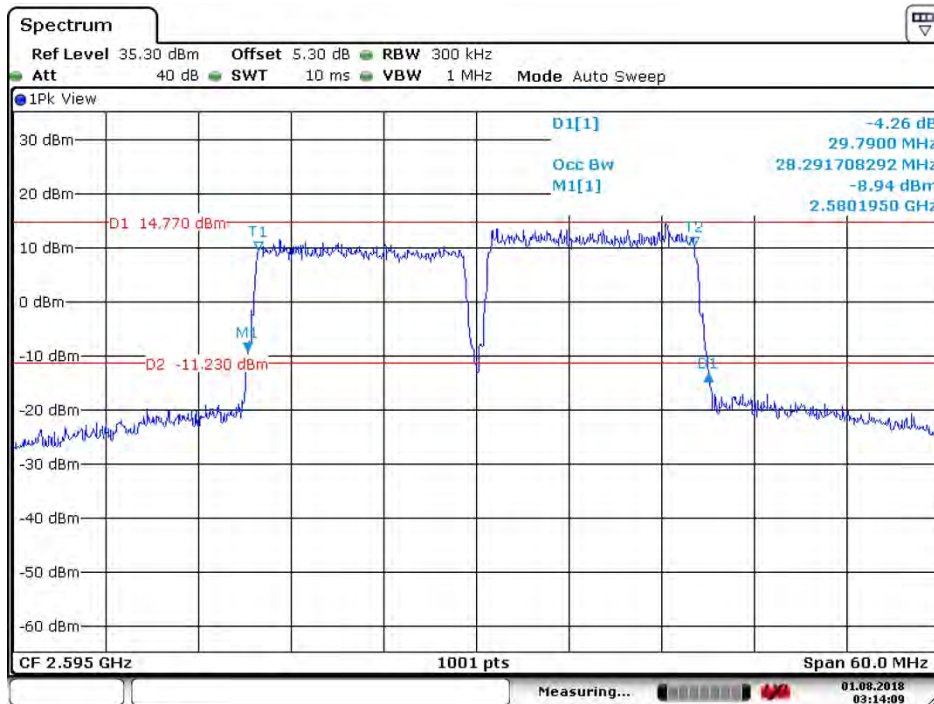
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4.1.1.3.4 Test Channel = 37975-37825



Date: 1.AUG.2018 03:07:00

4.1.1.3.5 Test Channel = 38075-37925

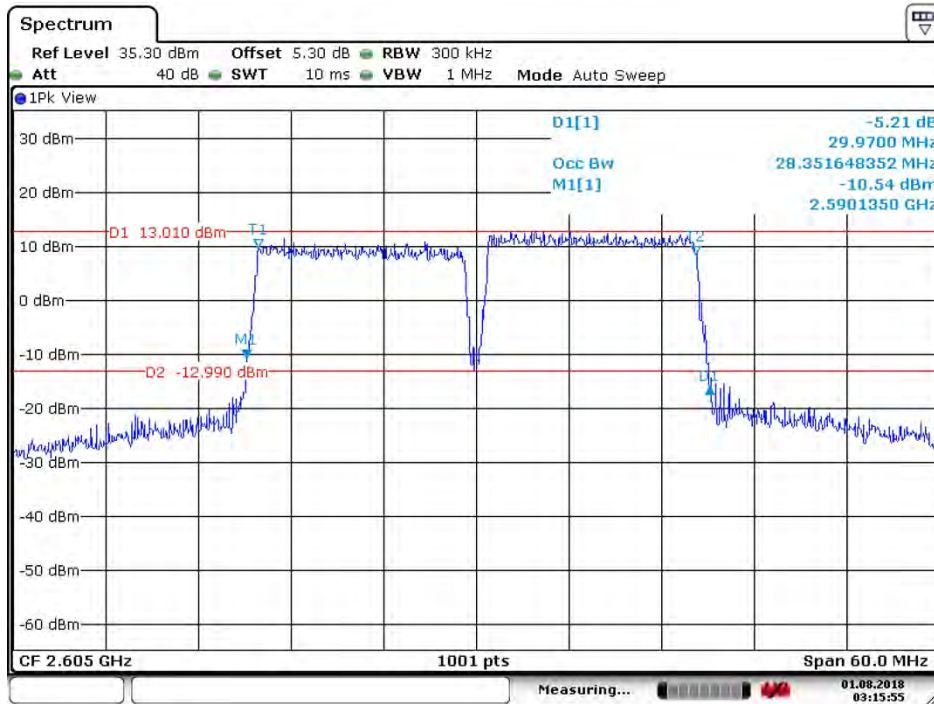


Date: 1.AUG.2018 03:14:10

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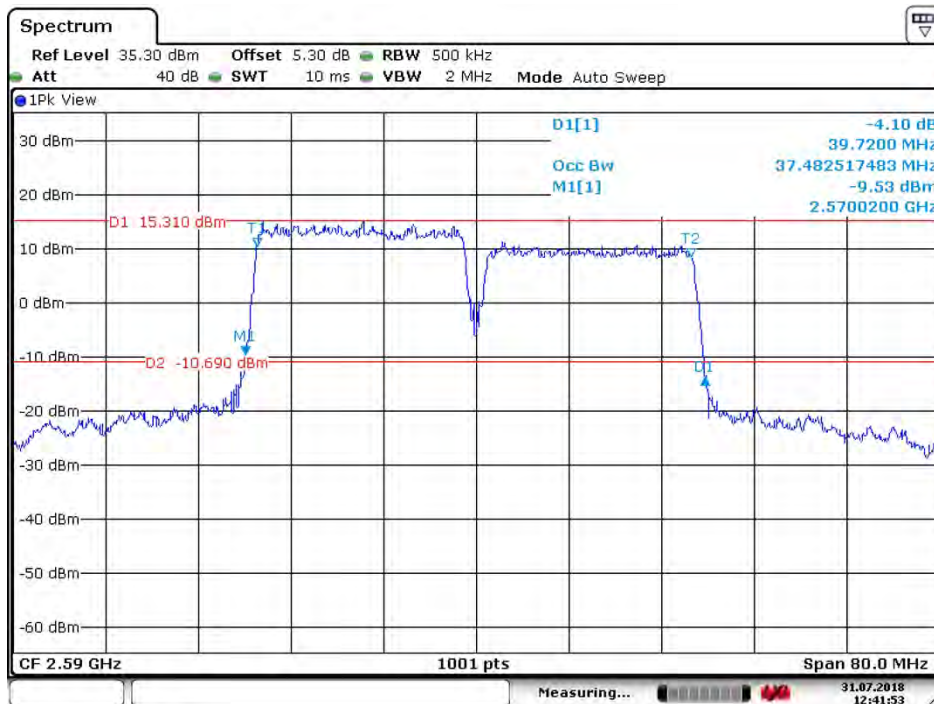
4.1.1.3.6 Test Channel = 38175-38025



4.1.2 Test Band = Bandwidth=100RB+100RB

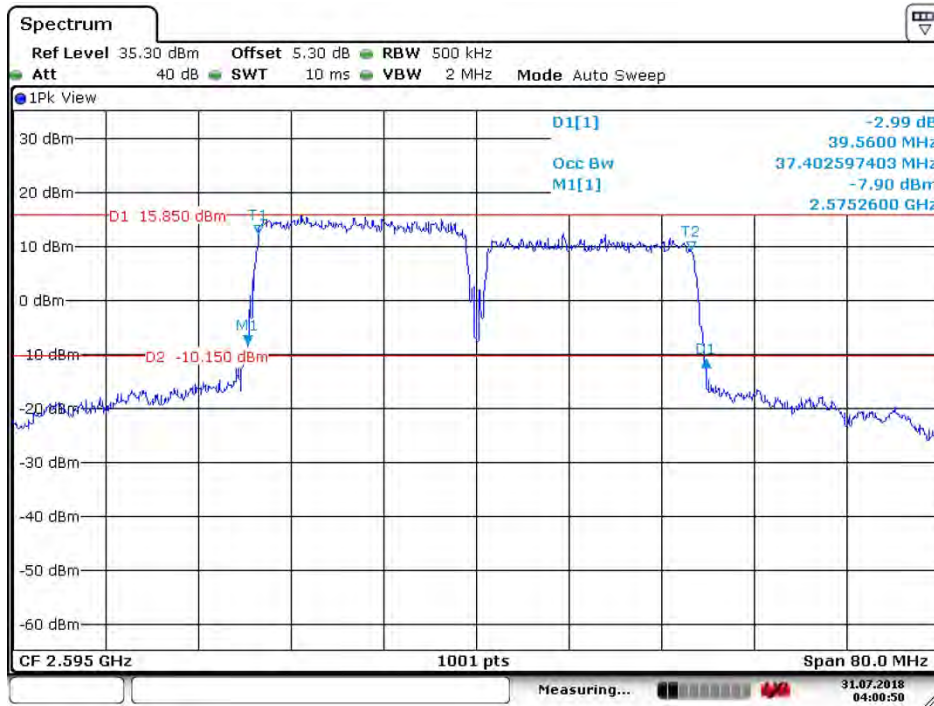
4.1.2.1 Test Mode = LTE/TM1

4.1.2.1.1 Test Channel = 37850-38048



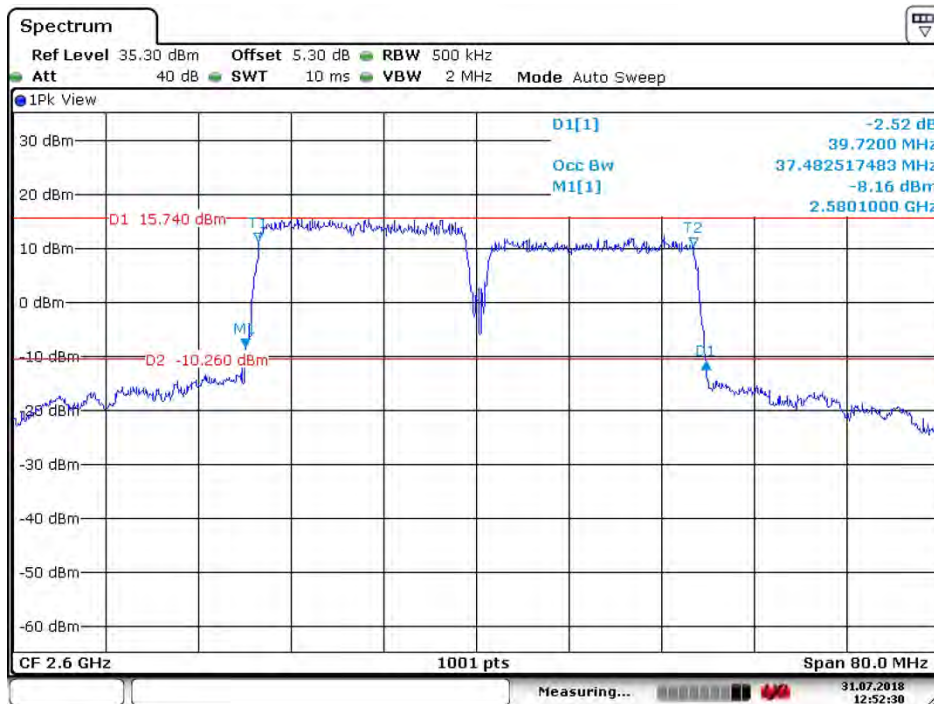
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4.1.2.1.2 Test Channel = 37901-38099



Date: 31.JUL.2018 04:00:50

4.1.2.1.3 Test Channel = 37952-38150

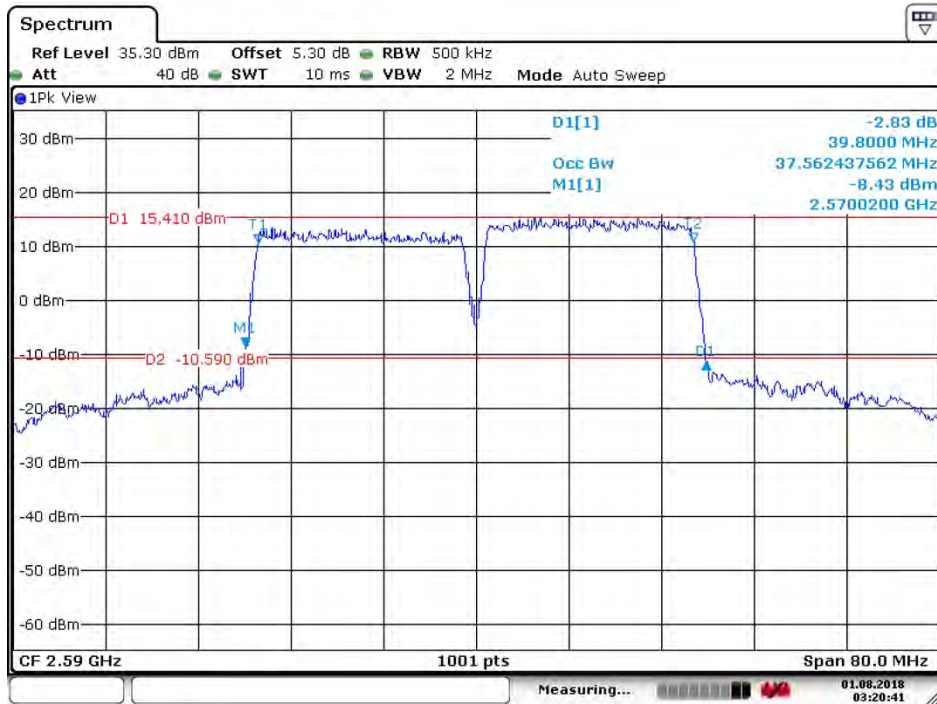


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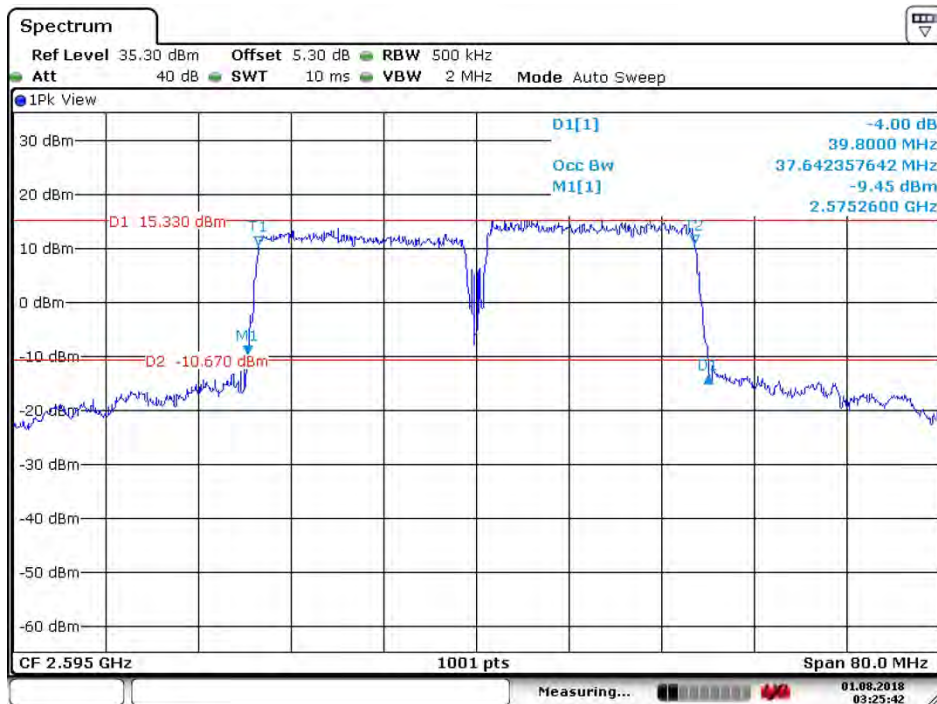


4.1.2.1.4 Test Channel = 38048-37850



Date: 1.AUG.2018 03:20:40

4.1.2.1.5 Test Channel = 38099-37901

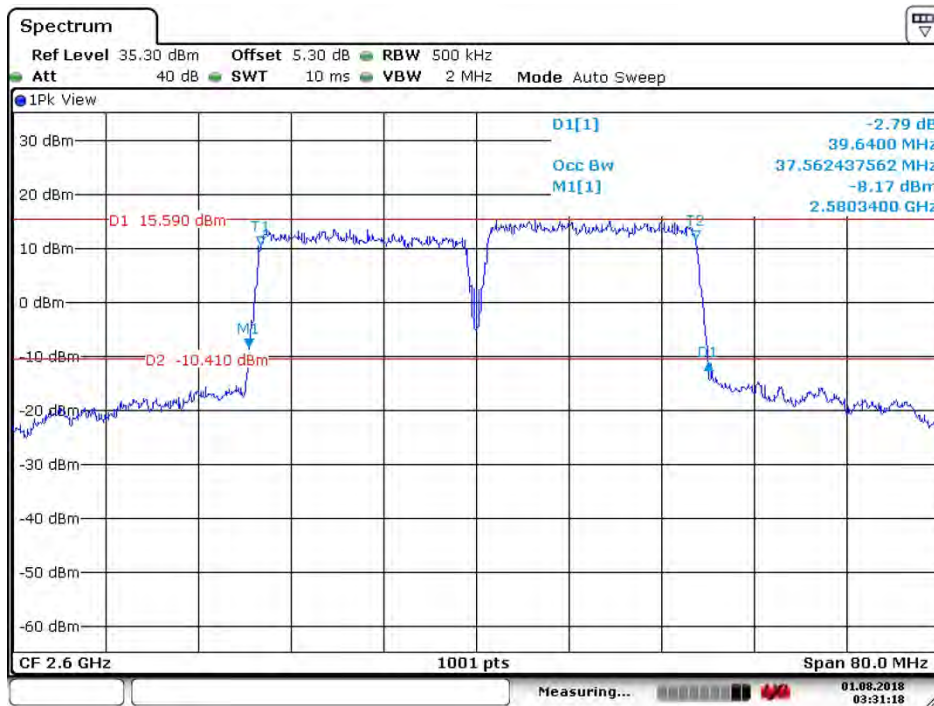


Date: 1.AUG.2018 03:25:43

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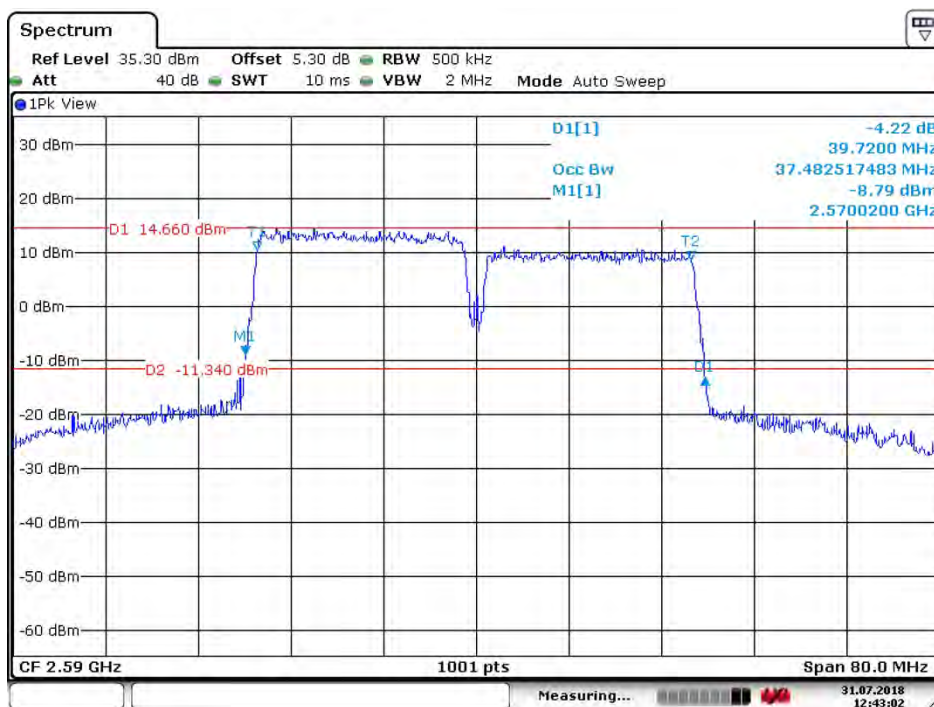
4.1.2.1.6 Test Channel = 38150-37952



Date: 1.AUG.2018 03:31:19

4.1.2.2 Test Mode = LTE/TM2

4.1.2.2.1 Test Channel = 37850-38048



Date: 31.JUL.2018 12:43:03