

Appendix B

WCDMA BAND II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Modulation	Channel	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band II	QPSK	9262	22.66	21.70	33.00	PASS
Band II	QPSK	9400	22.72	21.76	33.00	PASS
Band II	QPSK	9538	22.68	21.72	33.00	PASS
Band II	16QAM	9262	19.59	18.63	33.00	PASS
Band II	16QAM	9400	19.62	18.66	33.00	PASS
Band II	16QAM	9538	19.66	18.70	33.00	PASS
Band IV	QPSK	1312	23.67	22.89	30.00	PASS
Band IV	QPSK	1413	23.66	22.88	30.00	PASS
Band IV	QPSK	1513	23.72	22.94	30.00	PASS
Band IV	16QAM	1312	20.55	19.77	30.00	PASS
Band IV	16QAM	1413	20.58	19.80	30.00	PASS
Band IV	16QAM	1513	20.53	19.75	30.00	PASS

BAND	Modulation	Channel	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band V	QPSK	4132	23.62	18.35	38.45	PASS
Band V	QPSK	4182	23.57	18.30	38.45	PASS
Band V	QPSK	4233	23.48	18.21	38.45	PASS
Band V	16QAM	4132	20.51	15.24	38.45	PASS
Band V	16QAM	4182	20.54	15.27	38.45	PASS
Band V	16QAM	4233	20.52	15.25	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

$$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$$



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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

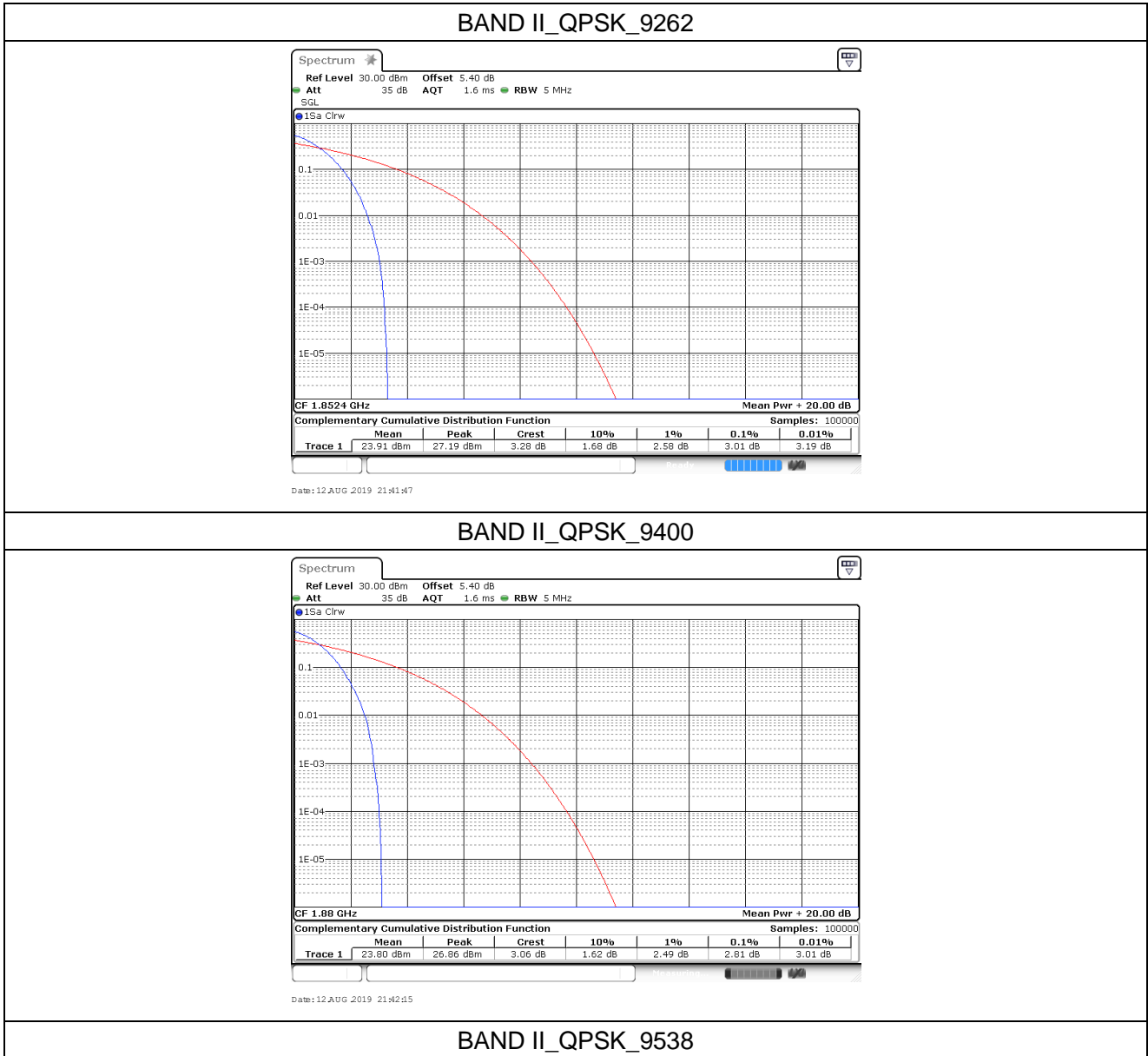
BAND	Modulation	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	QPSK	9262	3.01	13	PASS
Band II	QPSK	9400	2.81	13	PASS
Band II	QPSK	9538	2.70	13	PASS
Band II	16QAM	9262	3.07	13	PASS
Band II	16QAM	9400	2.81	13	PASS
Band II	16QAM	9538	2.70	13	PASS
Band IV	QPSK	1312	2.90	13	PASS
Band IV	QPSK	1413	2.96	13	PASS
Band IV	QPSK	1513	3.01	13	PASS
Band IV	16QAM	1312	2.43	13	PASS
Band IV	16QAM	1413	2.96	13	PASS
Band IV	16QAM	1513	2.99	13	PASS
Band V	QPSK	4132	2.96	13	PASS
Band V	QPSK	4182	2.93	13	PASS
Band V	QPSK	4233	2.90	13	PASS
Band V	16QAM	4132	2.99	13	PASS
Band V	16QAM	4182	2.93	13	PASS
Band V	16QAM	4233	2.93	13	PASS



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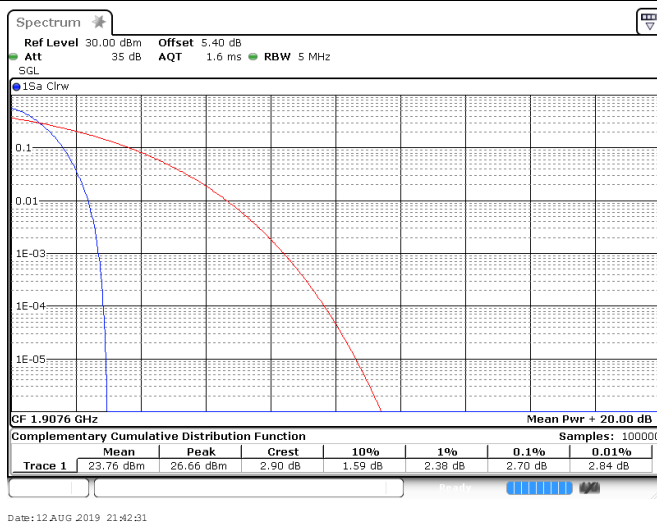
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2.2. Test Plots

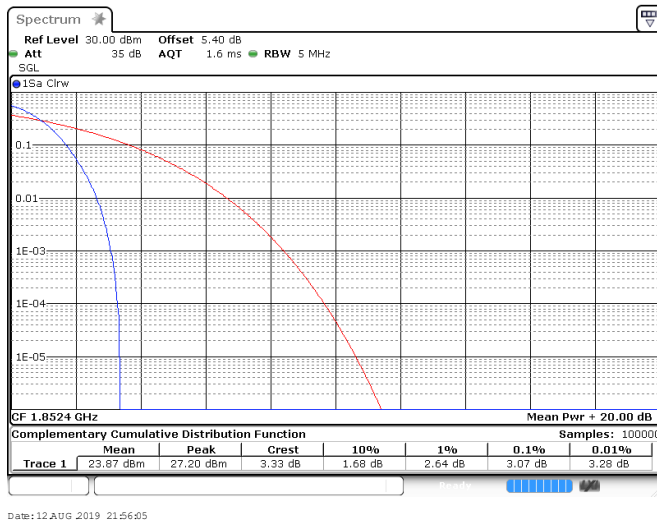


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BAND II_16QAM_9262

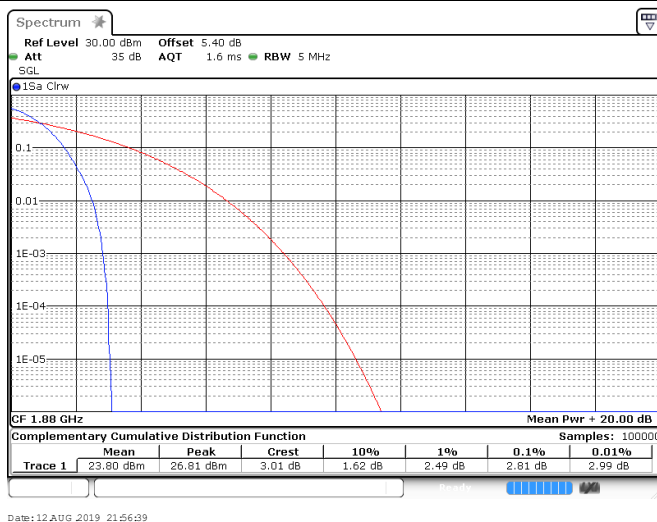


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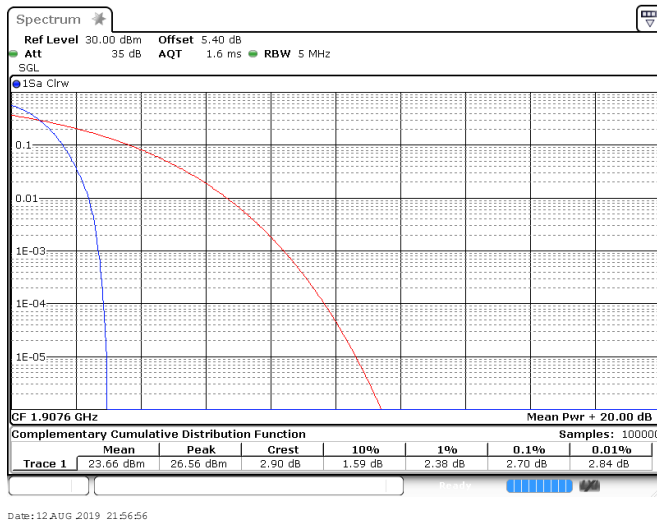
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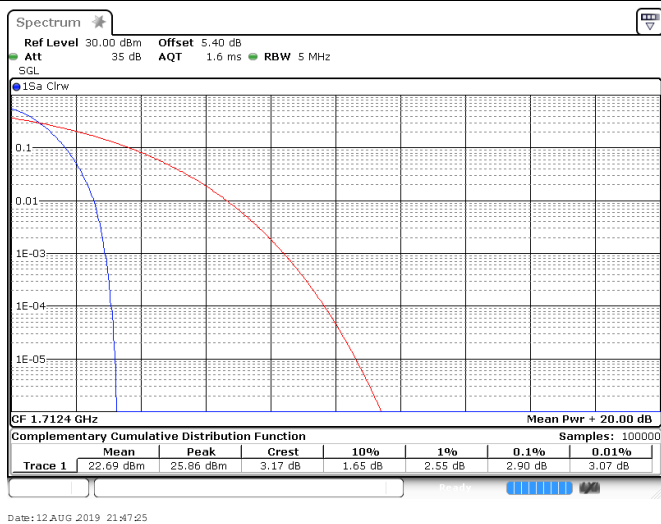


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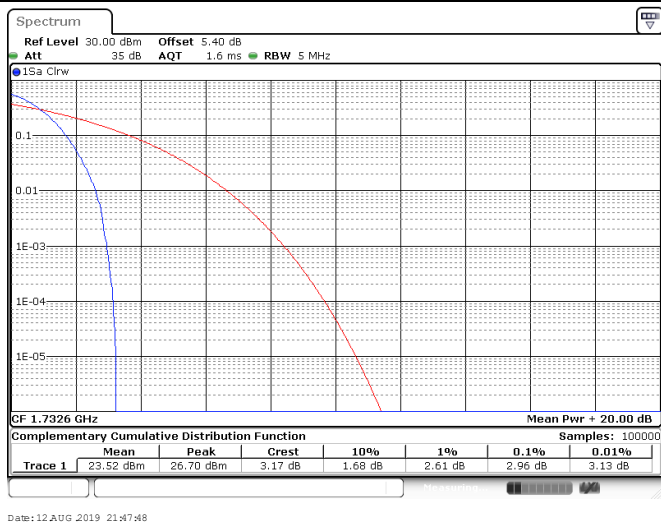
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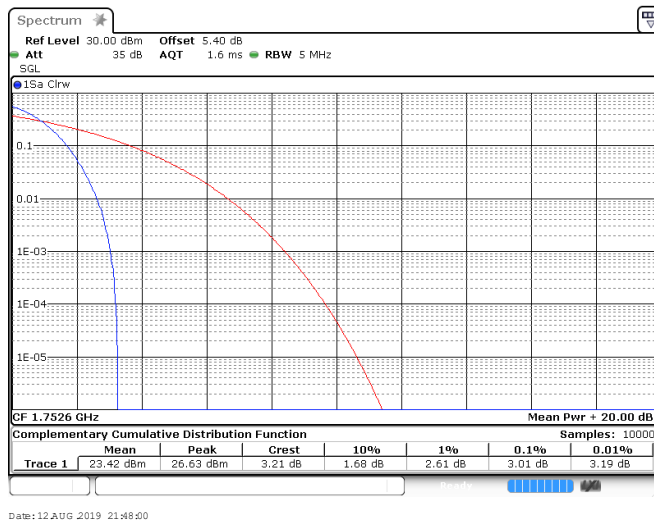


BAND IV_QPSK_1513



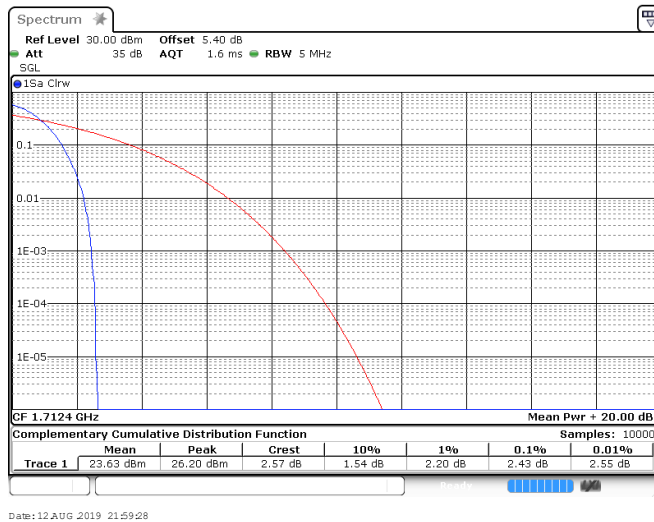
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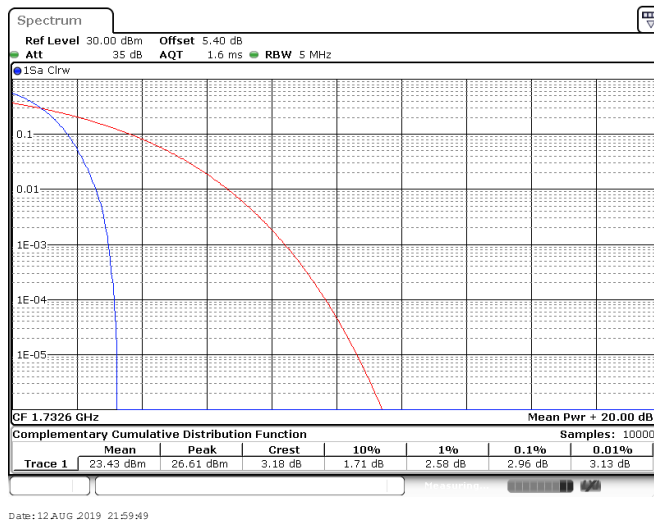


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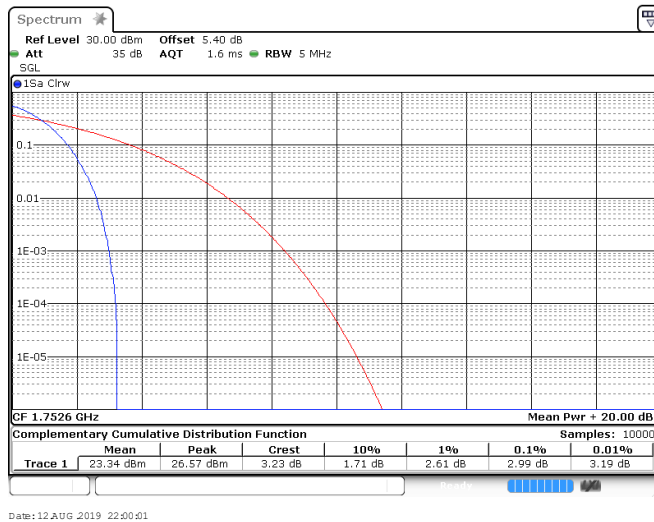


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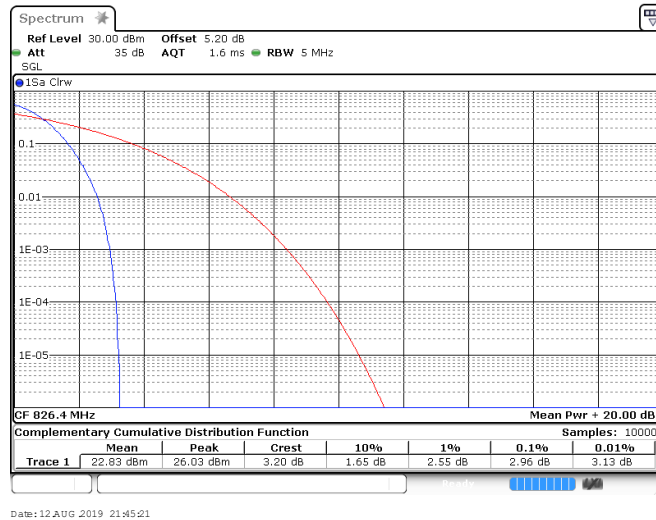
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BAND V_QPSK_4132



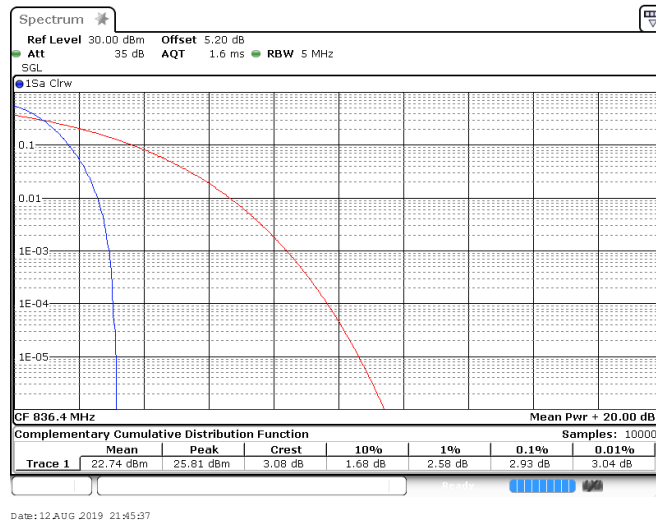
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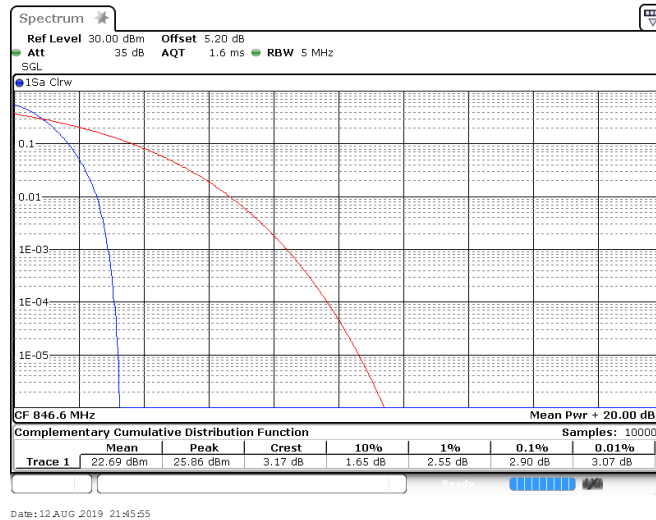


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BAND V_QPSK_4233

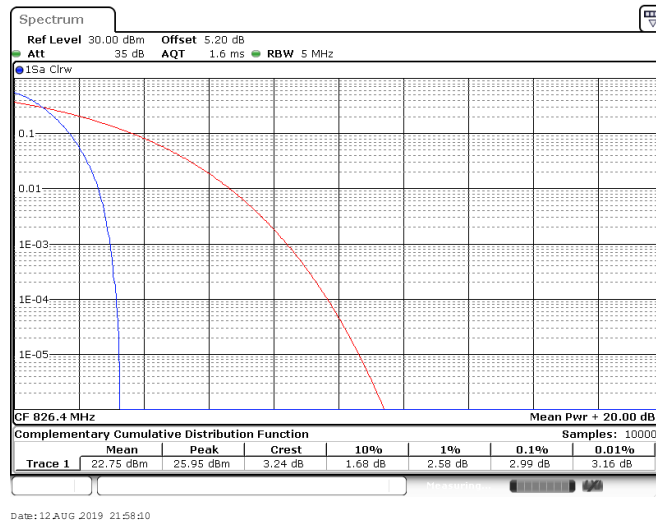


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BAND V_16QAM_4132



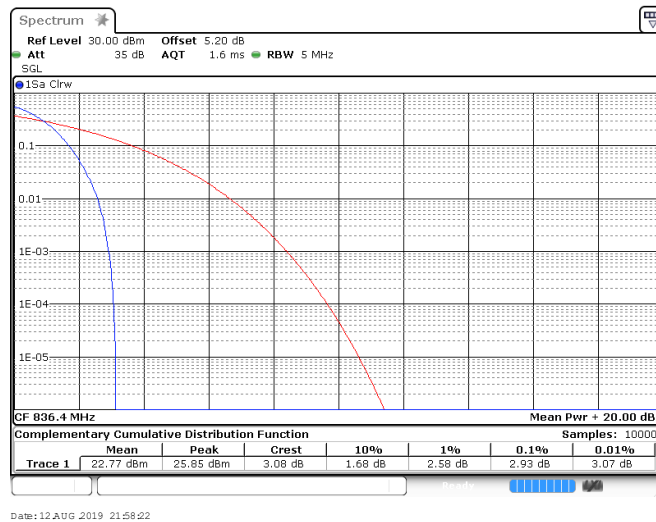
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BAND V_16QAM_4182



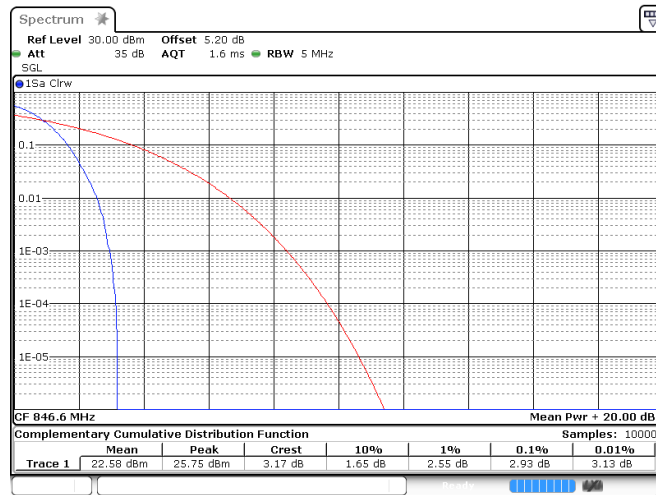
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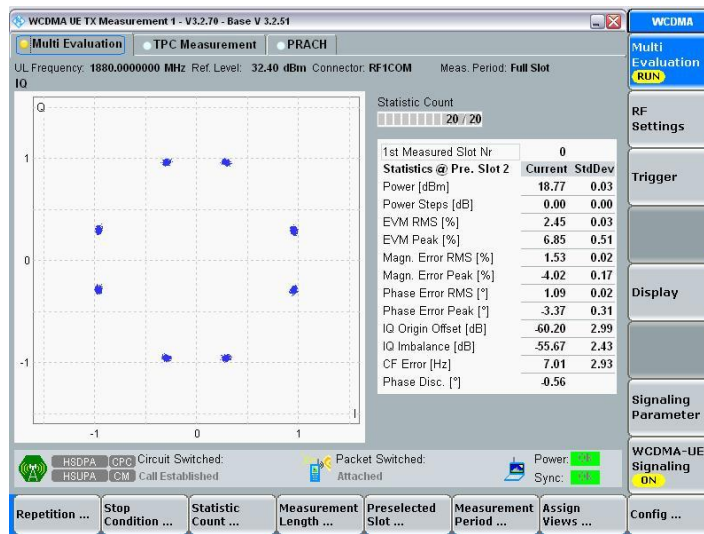
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3. Modulation Characteristics

3.1. Test BAND = WCDMA BAND II

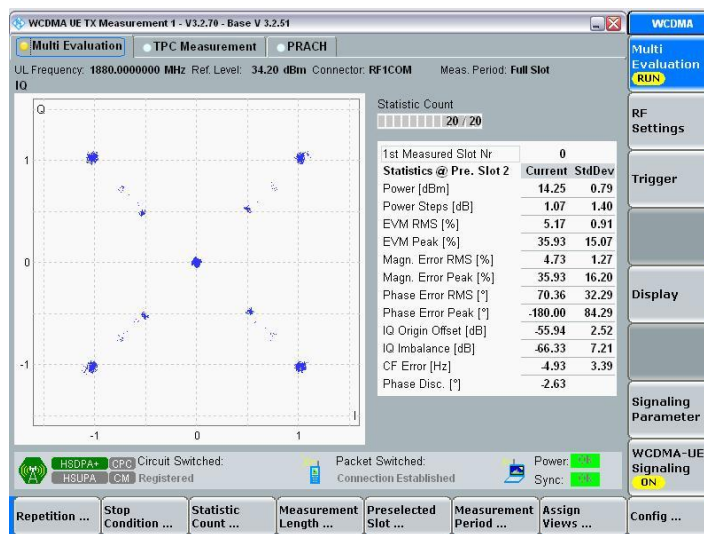
3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = UMTS/TM2

3.1.2.1. Test Channel = MCH



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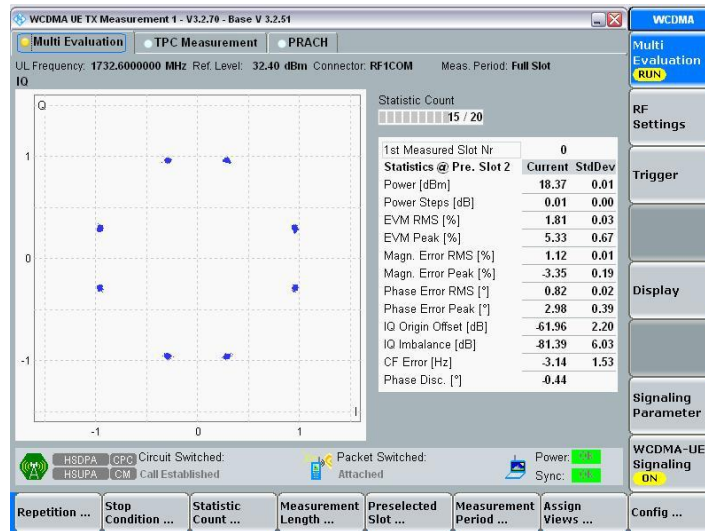
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3.2. Test BAND = WCDMA BAND IV

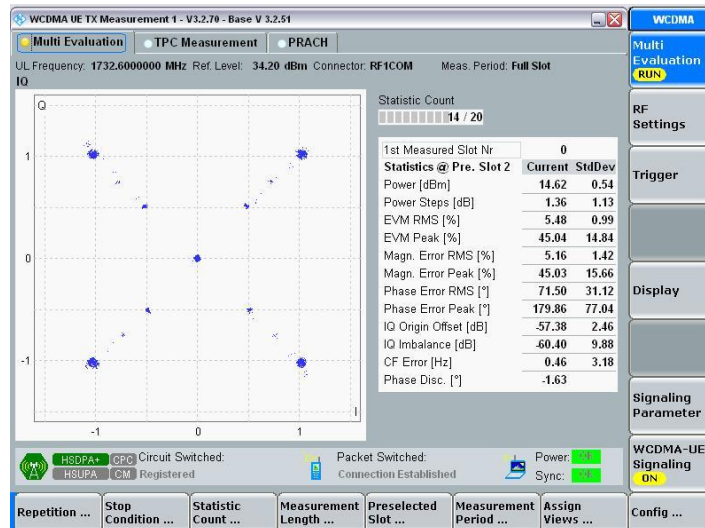
3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



3.2.2. Test Mode = UMTS/TM2

3.2.2.1. Test Channel = MCH



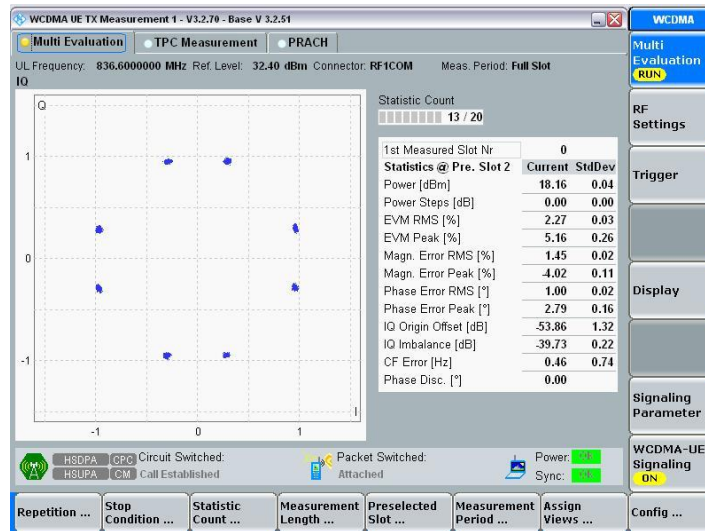
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3.3. Test BAND = WCDMA BAND V

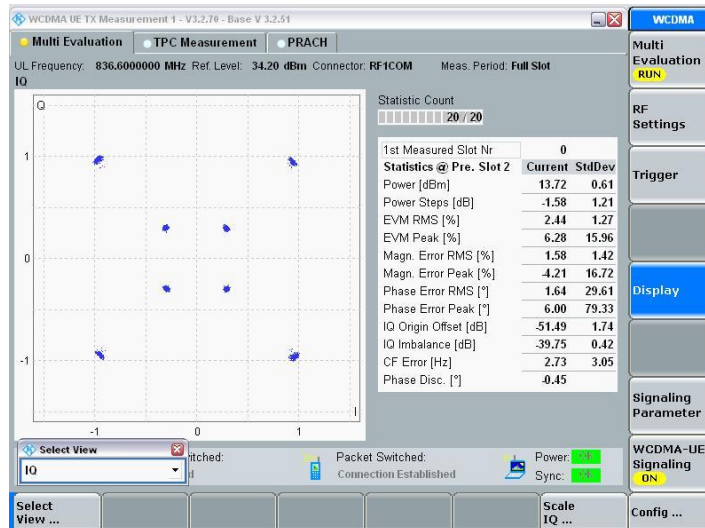
3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



3.3.2. Test Mode = UMTS/TM2

3.3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

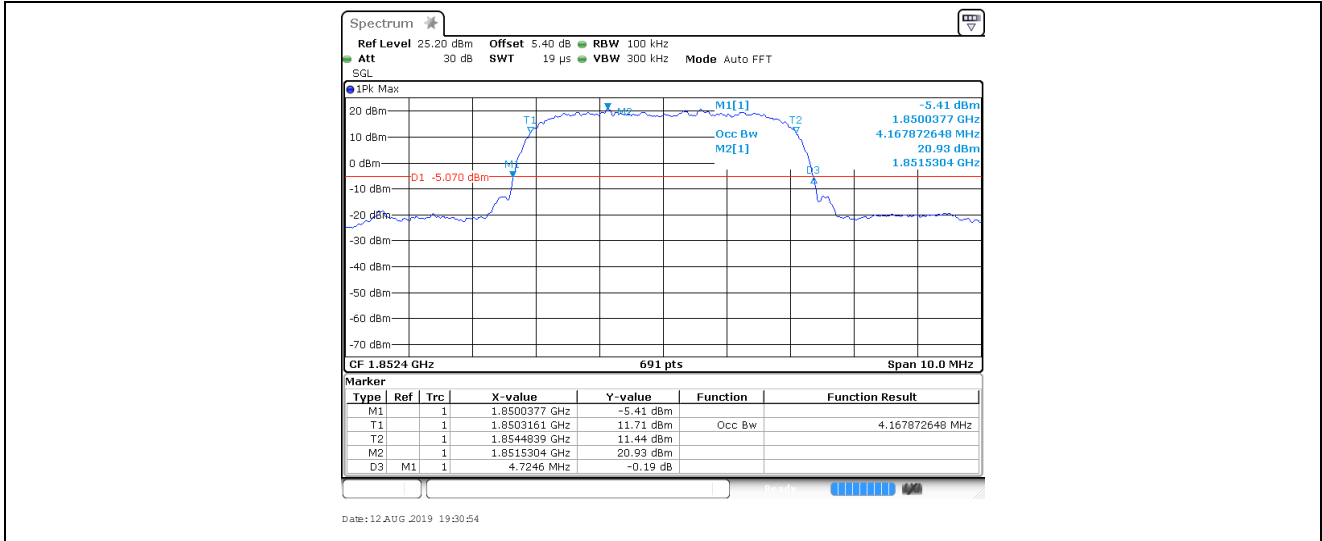
BAND	Modulation	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	QPSK	9262	4167.9	4725	---	PASS
Band II	QPSK	9400	4153.4	4739	---	PASS
Band II	QPSK	9538	4153.4	4754	---	PASS
Band II	16QAM	9262	4167.9	4739	---	PASS
Band II	16QAM	9400	4167.9	4754	---	PASS
Band II	16QAM	9538	4153.4	4754	---	PASS
Band IV	QPSK	1312	4167.9	4768	---	PASS
Band IV	QPSK	1413	4167.9	4739	---	PASS
Band IV	QPSK	1513	4153.4	4725	---	PASS
Band IV	16QAM	1312	4167.9	4768	---	PASS
Band IV	16QAM	1413	4153.4	4739	---	PASS
Band IV	16QAM	1513	4167.9	4725	---	PASS
Band V	QPSK	4132	4153.4	4739	---	PASS
Band V	QPSK	4182	4153.4	4725	---	PASS
Band V	QPSK	4233	4167.9	4739	---	PASS
Band V	16QAM	4132	4153.4	4739	---	PASS
Band V	16QAM	4182	4153.4	4710	---	PASS
Band V	16QAM	4233	4167.9	4739	---	PASS



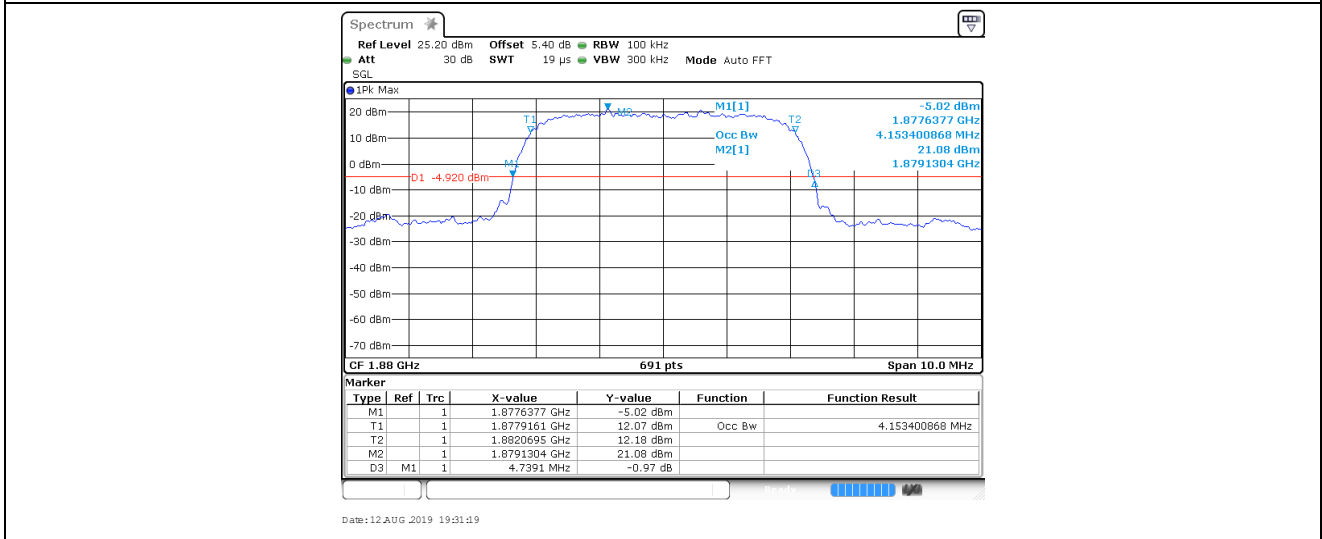
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4.2. Test Plots



BAND II_QPSK_9262

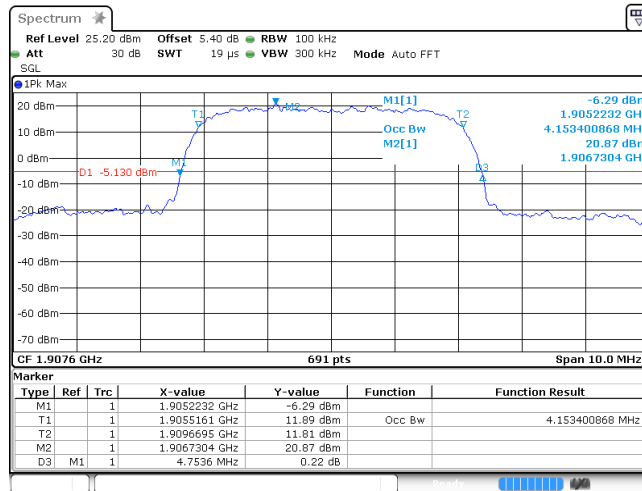


BAND II_QPSK_9400



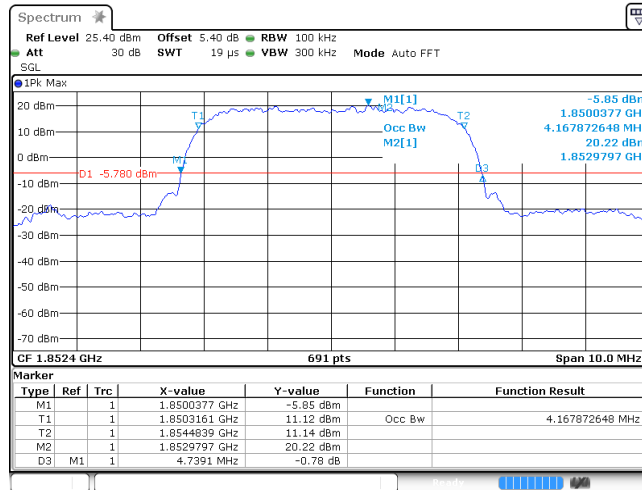
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BAND II_QPSK_9538

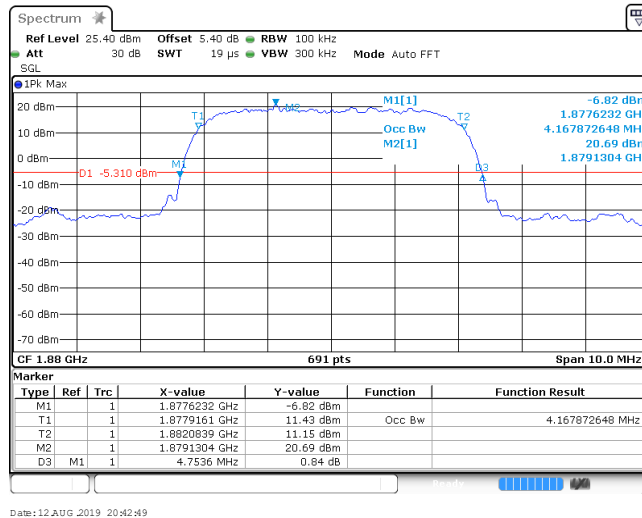


Date: 12 AUG 2019 20:42:17

BAND II_16QAM_9262

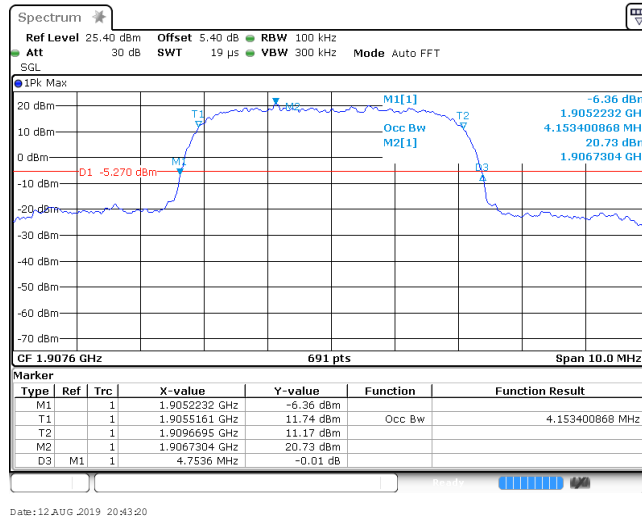


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Date: 12 AUG 2019 20:42:49

BAND II_16QAM_9400



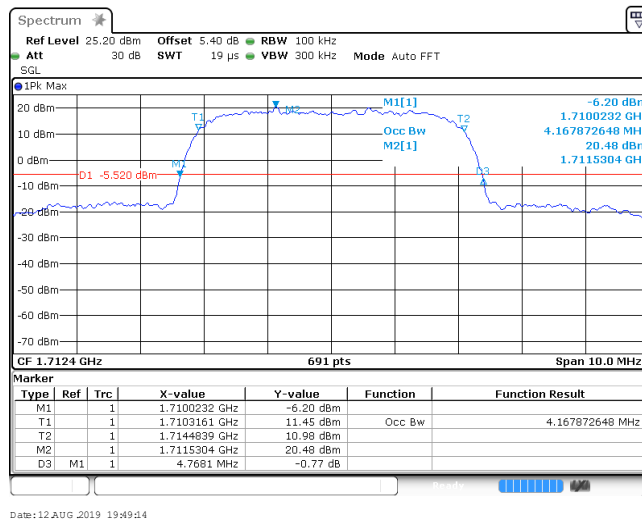
Date: 12 AUG 2019 20:43:20

BAND II_16QAM_9538



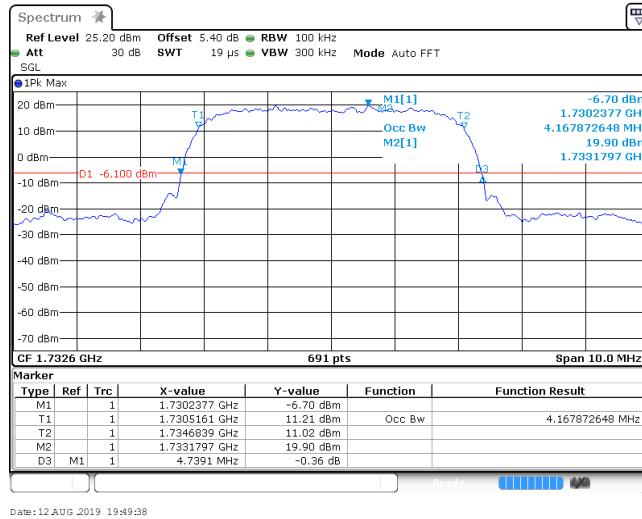
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BAND IV_QPSK_1312

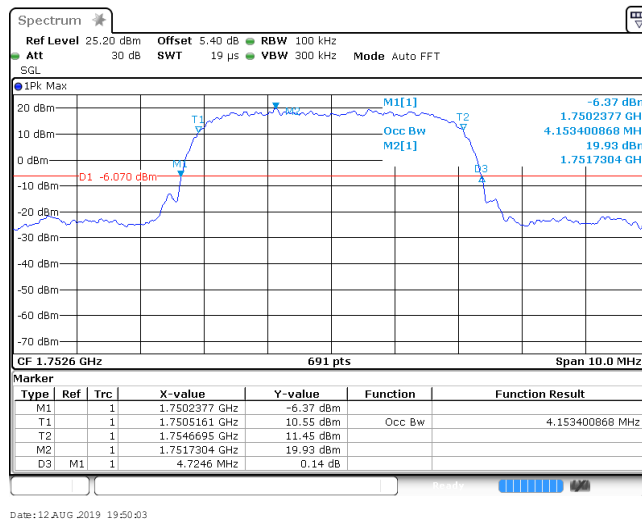


Date: 12 AUG 2019 19:49:38

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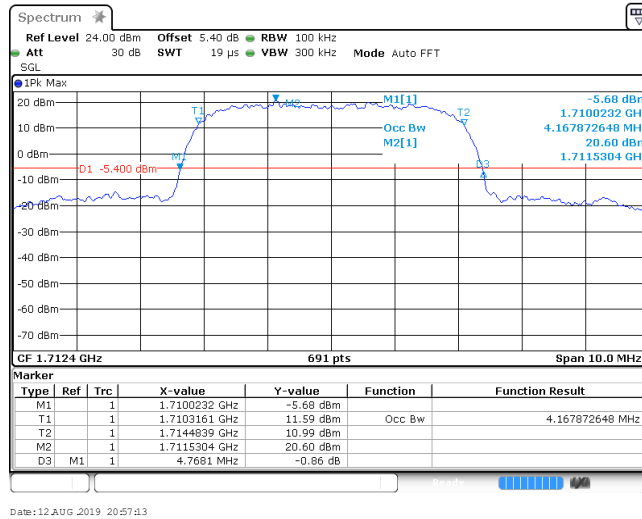


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BAND IV_QPSK_1513

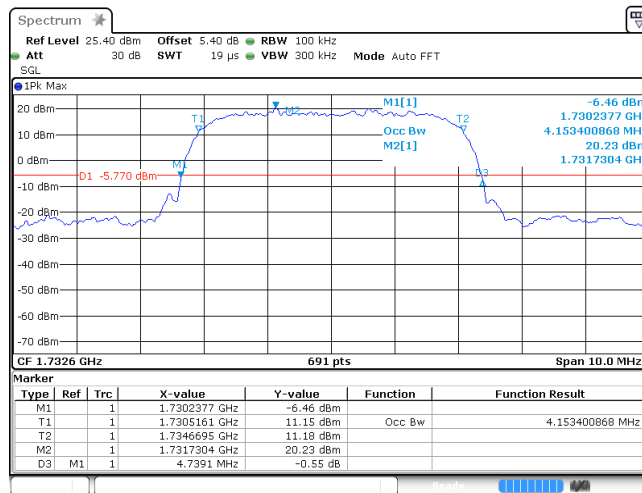


Date: 12 AUG 2019 20:57:13

BAND IV_16QAM_1312

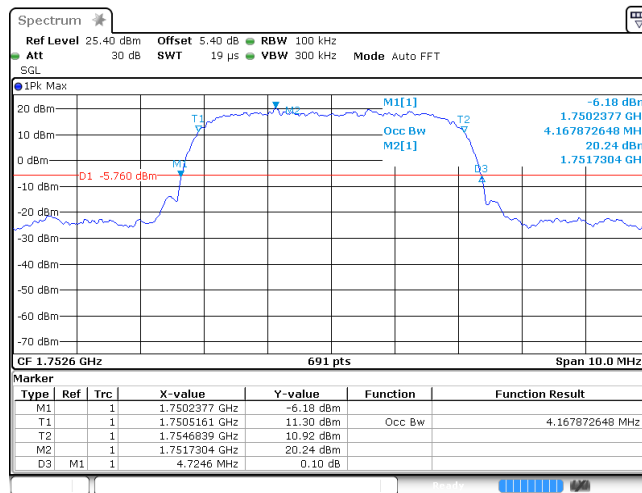


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Date: 12 AUG 2019 20:57:42

BAND IV_16QAM_1413



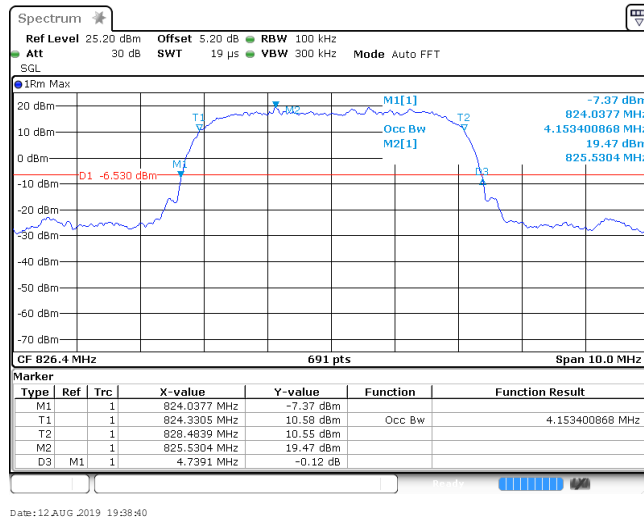
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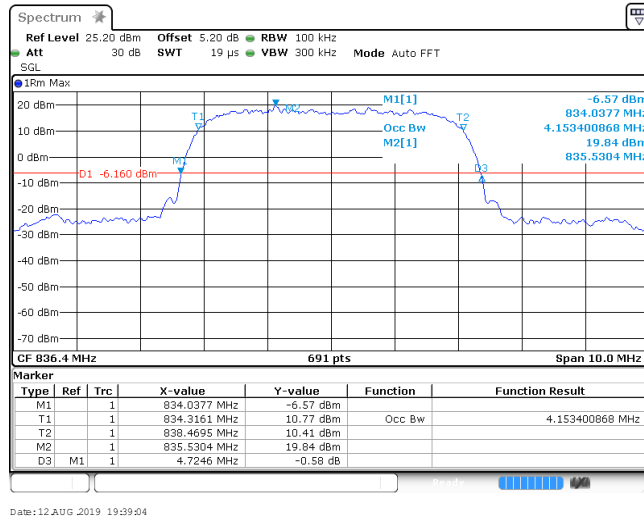


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BAND V_QPSK_4132

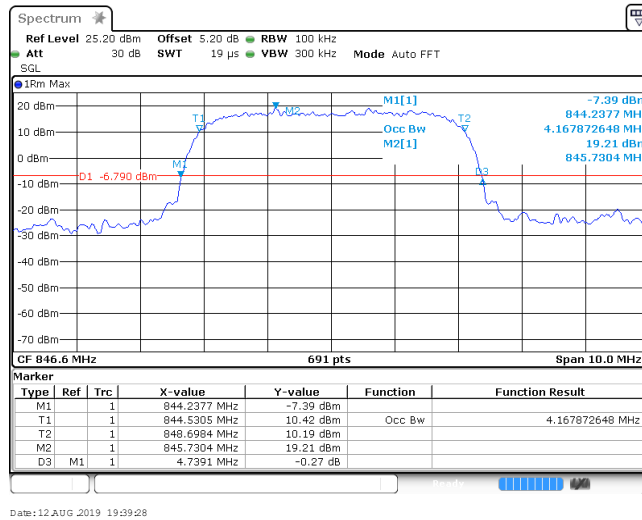


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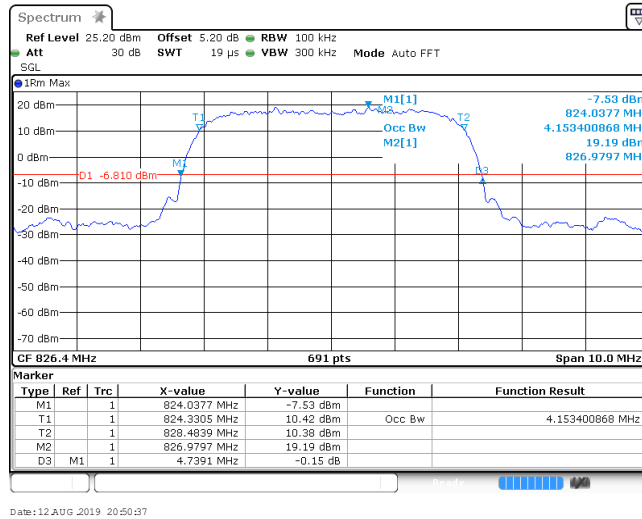


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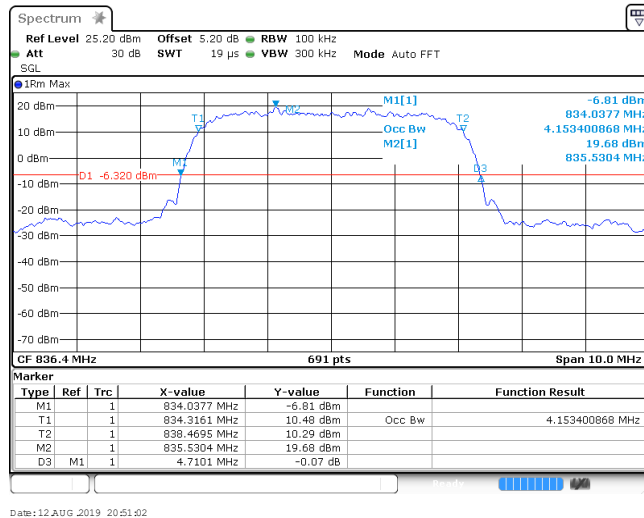


BAND V_16QAM_4132



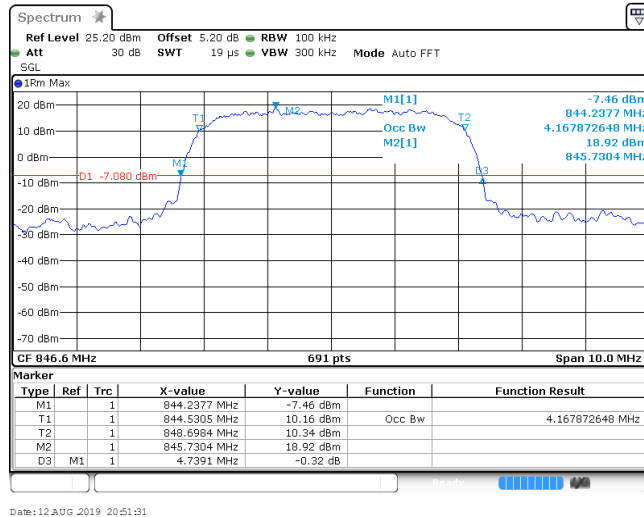
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BAND V_16QAM_4182



Date: 12 AUG 2019 20:51:31

BAND V_16QAM_4233

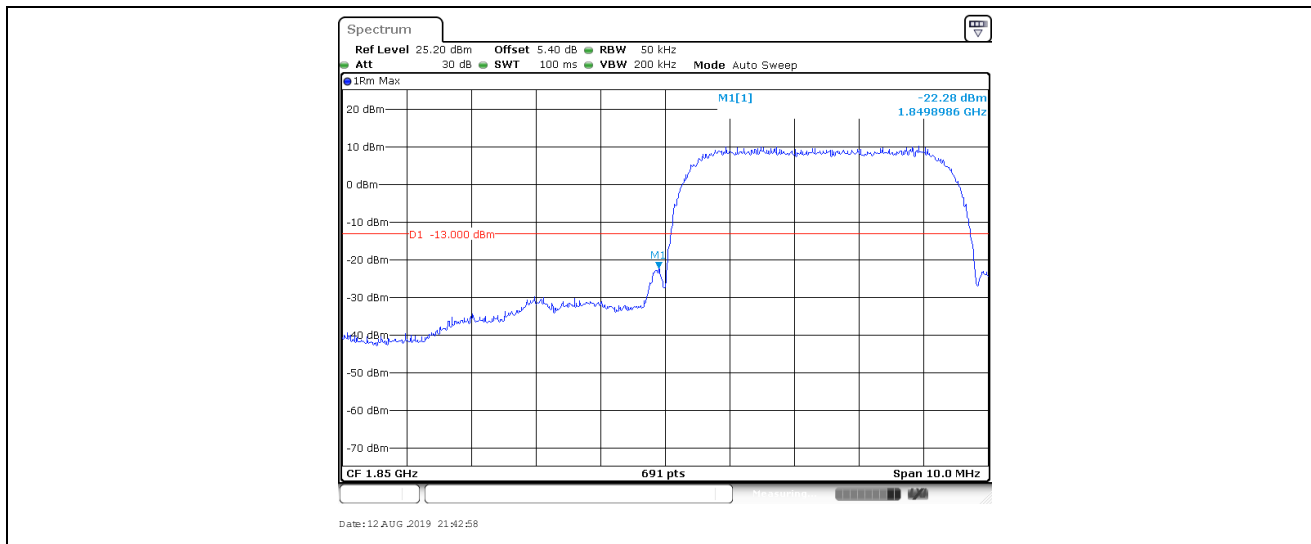


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5. Band Edge Compliance

5.1. Test Plots



BAND II_QPSK_9262

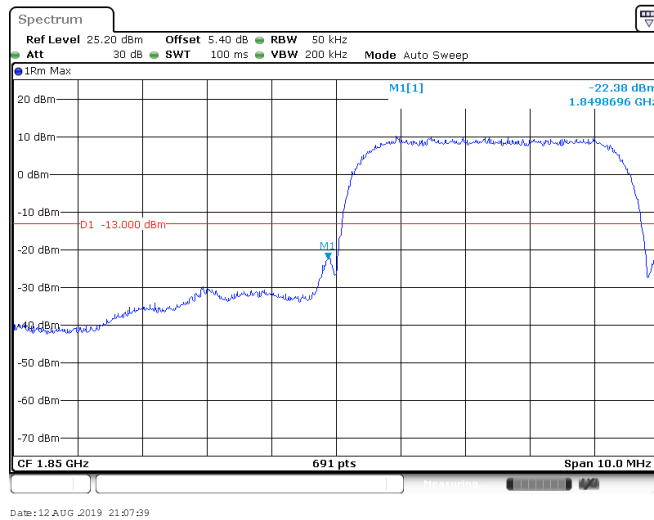


BAND II_QPSK_9538

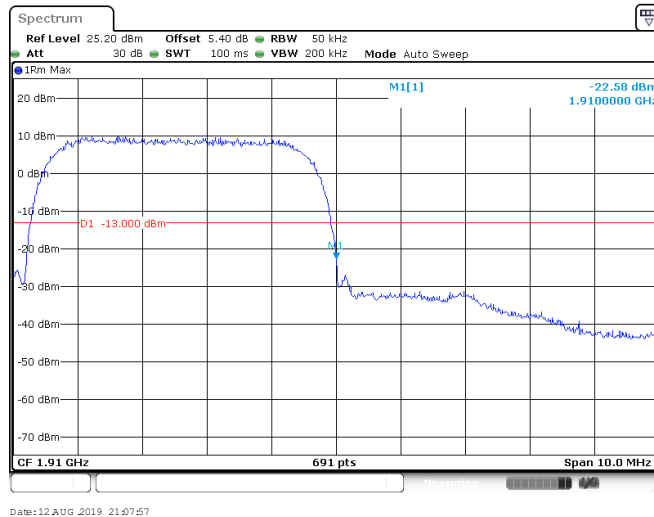


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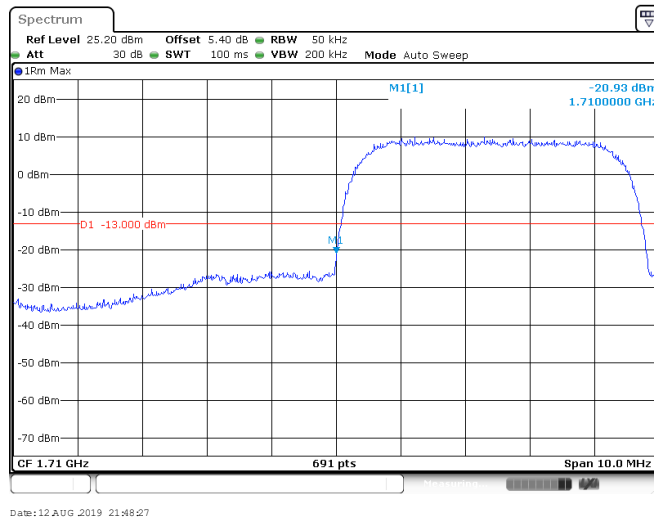
BAND II_16QAM_9262



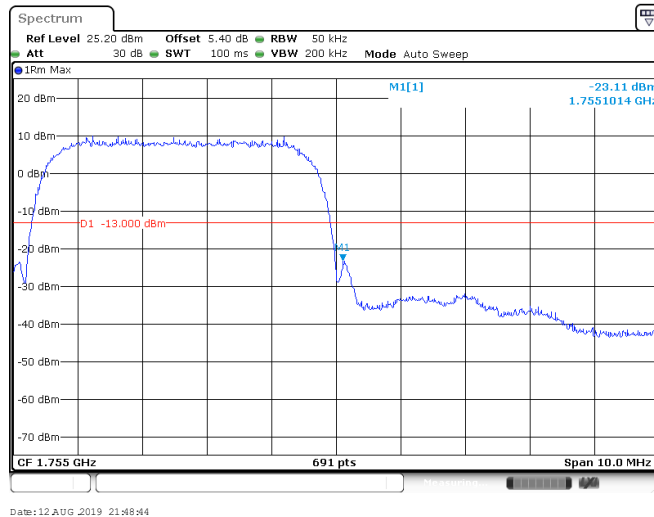
BAND II_16QAM_9538



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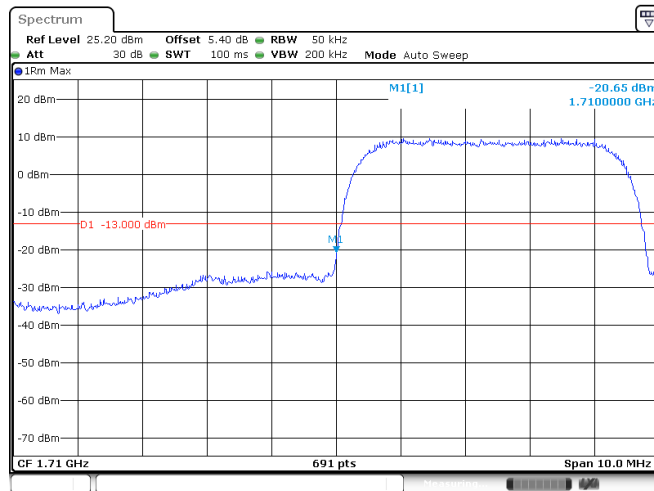
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BAND IV_QPSK_1513

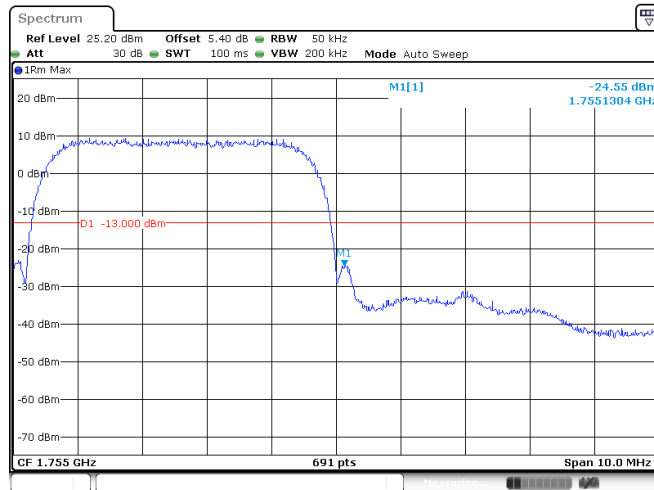


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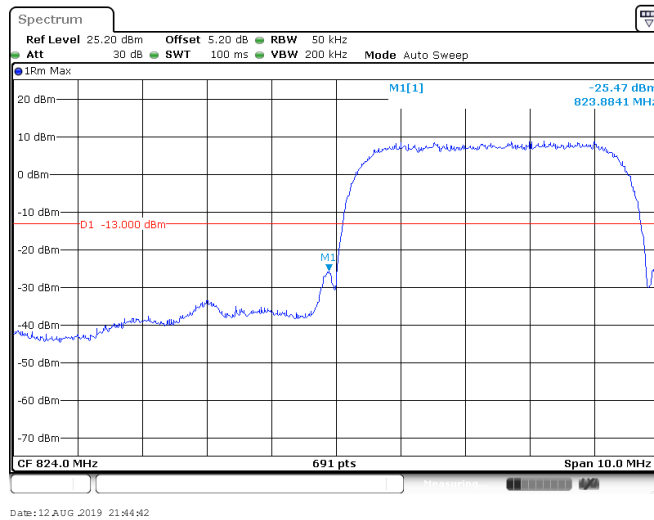


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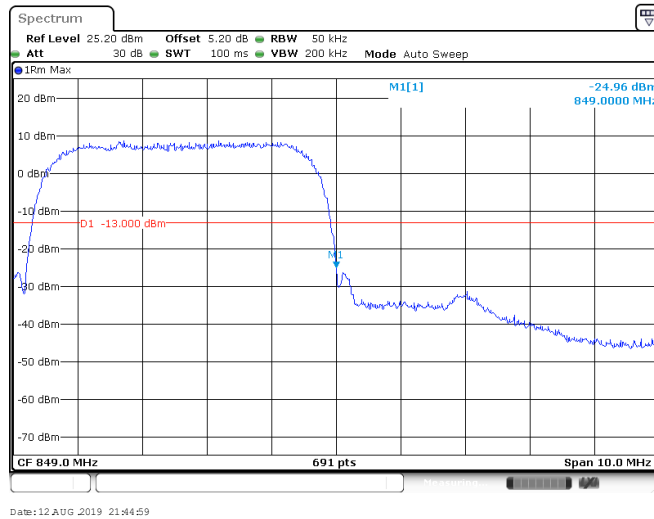
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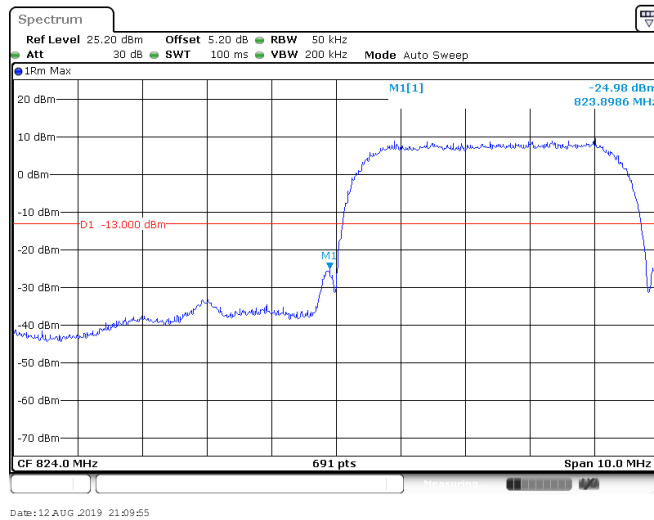


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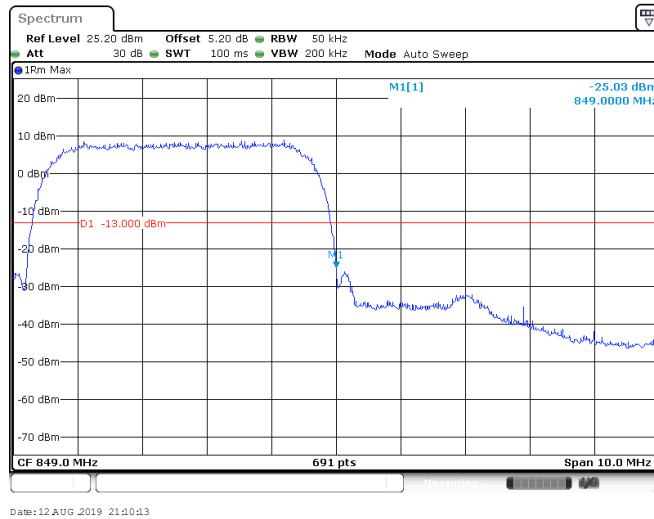


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BAND V_16QAM_4132



BAND V_16QAM_4233



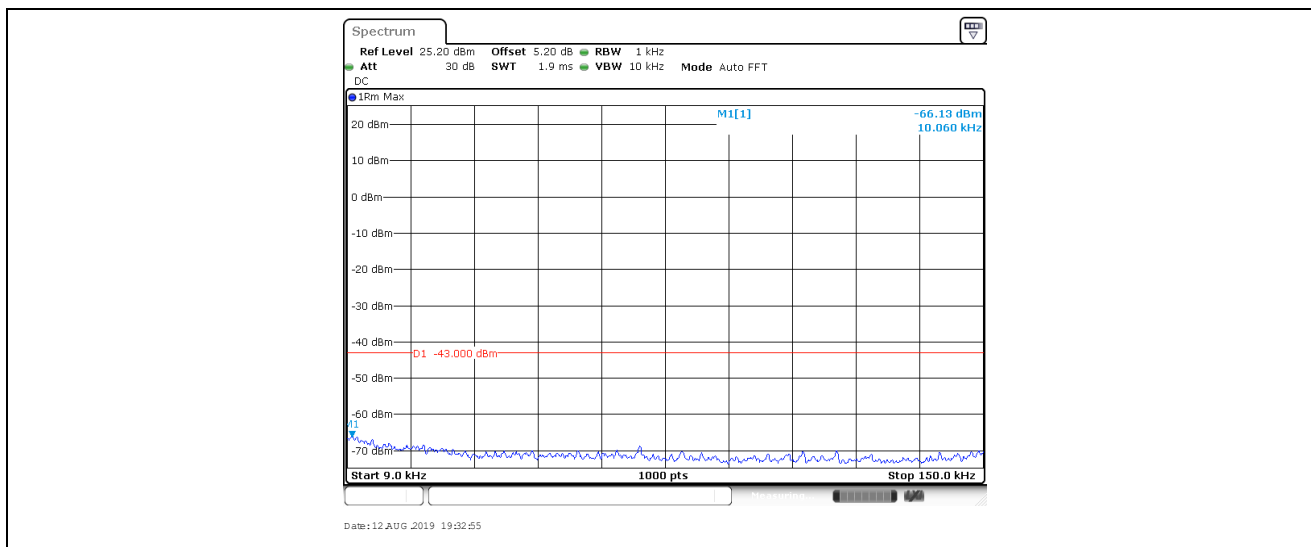
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6. Spurious Emission at Antenna Terminal

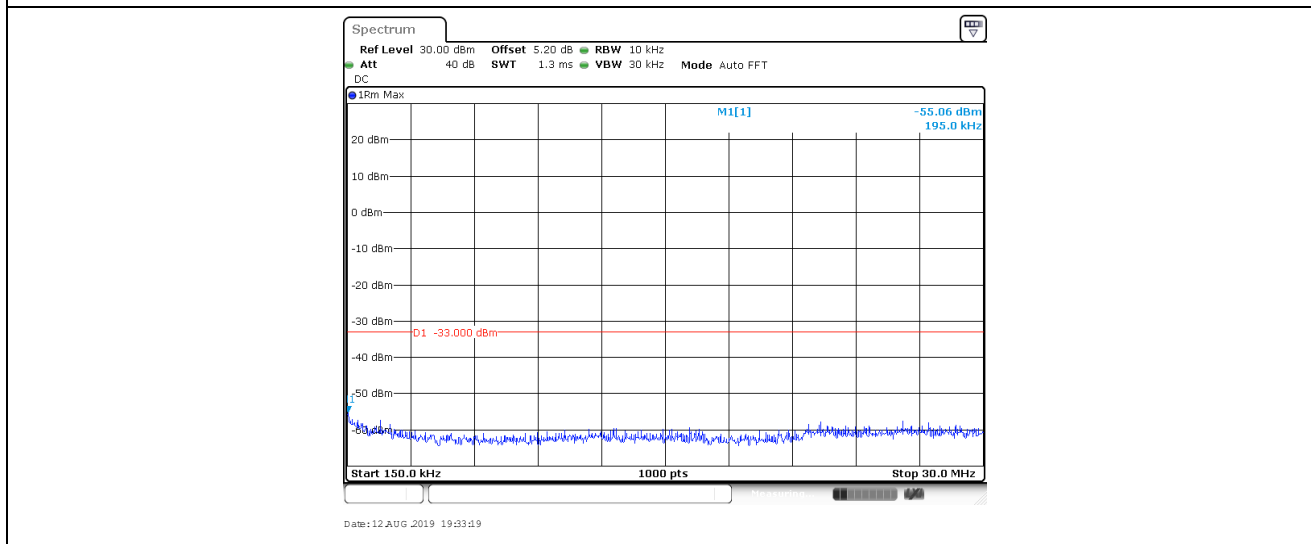
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots For QPSK



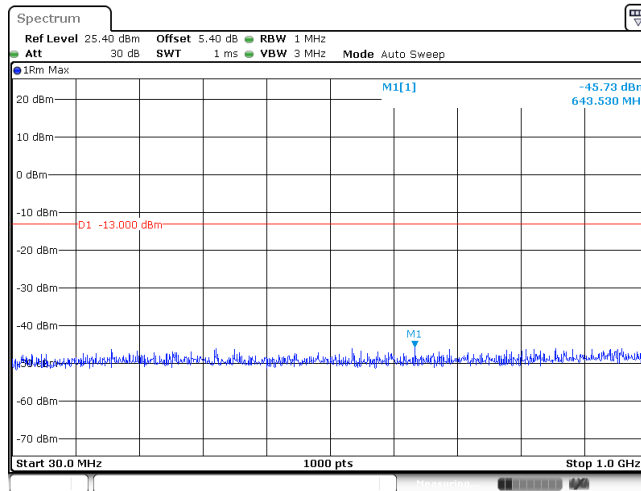
BAND II_QPSK_9262



BAND II_QPSK_9262

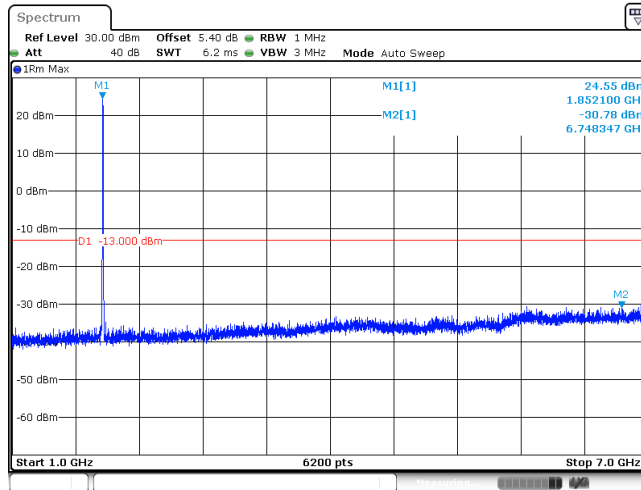


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Date: 12 AUG 2019 19:33:30

BAND II_QPSK_9262

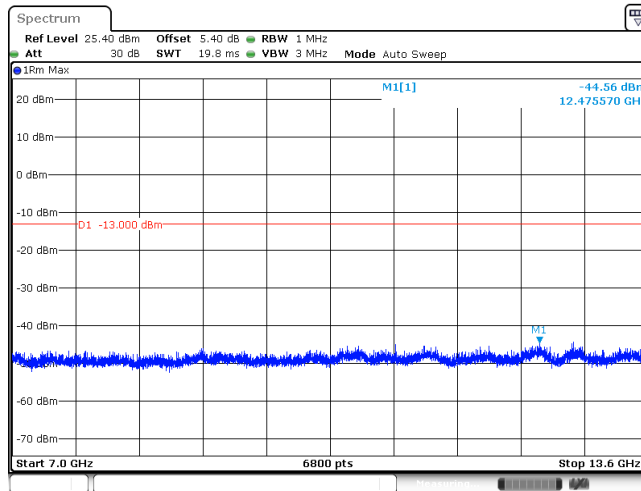


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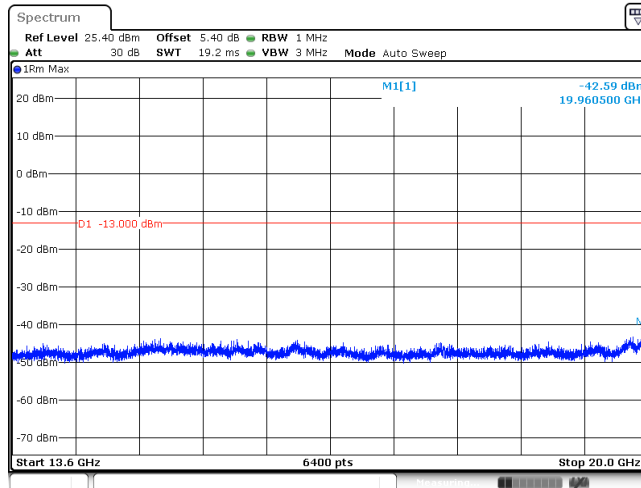


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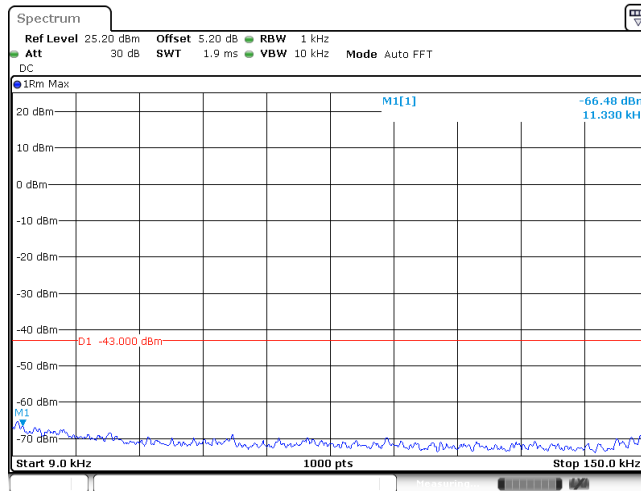
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BAND II_QPSK_9262



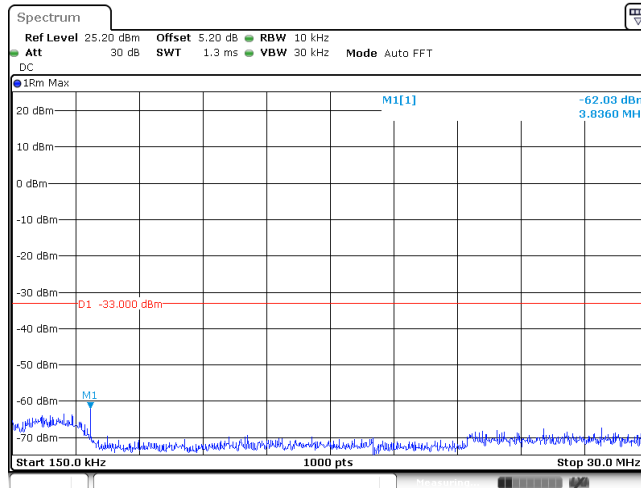
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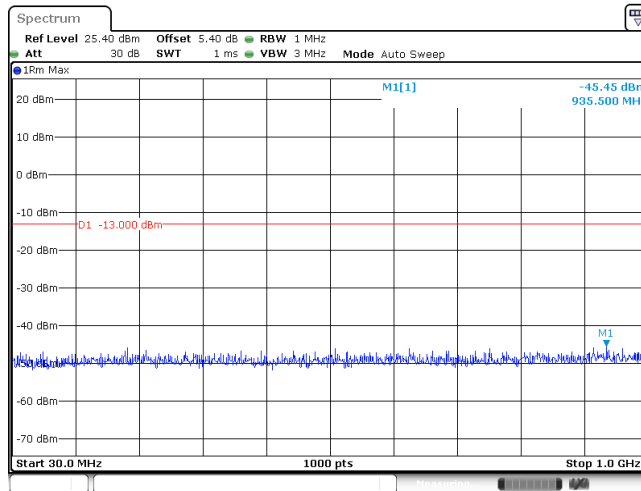


Date: 12 AUG 2019 19:34:28

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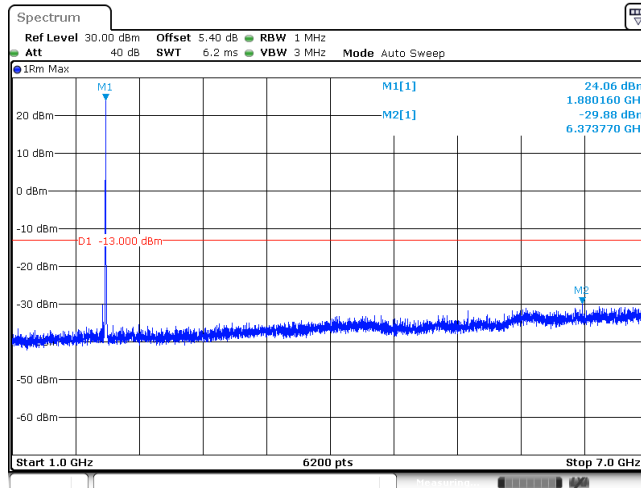


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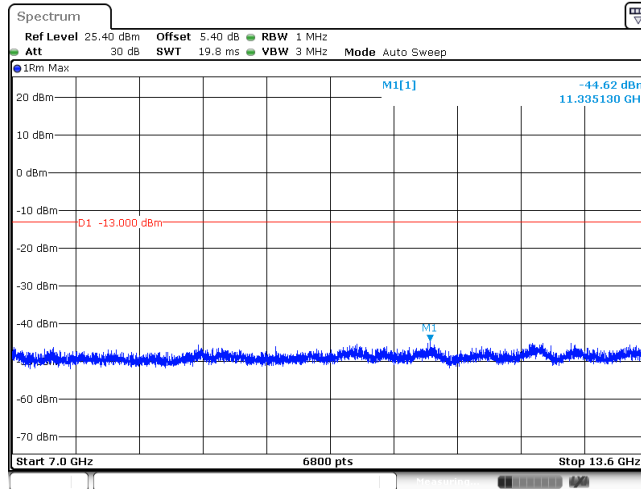


Date: 12 AUG 2019 19:34:51

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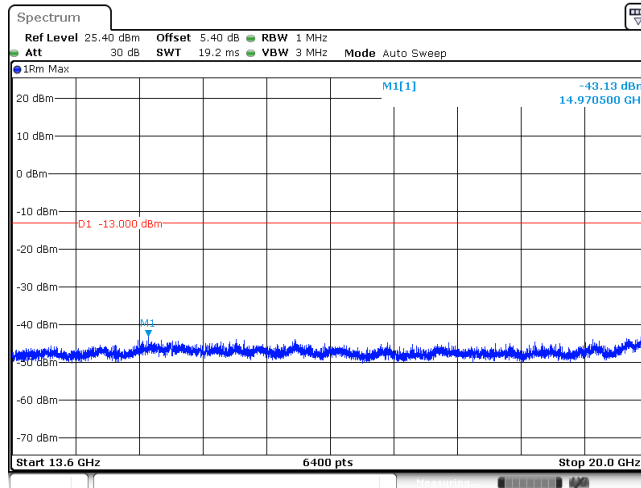


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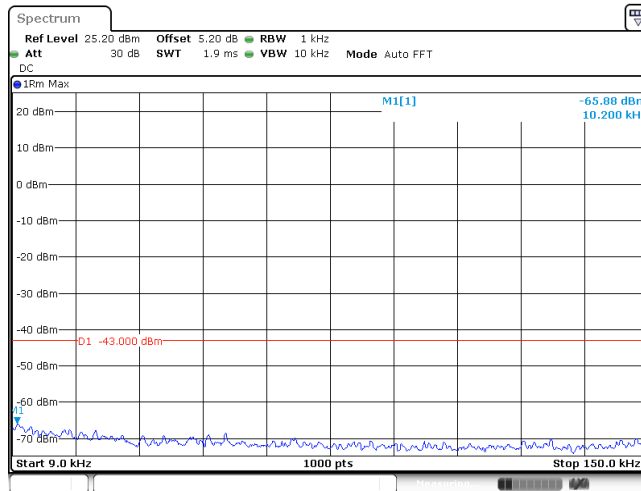


Date: 12 AUG 2019 19:35:13

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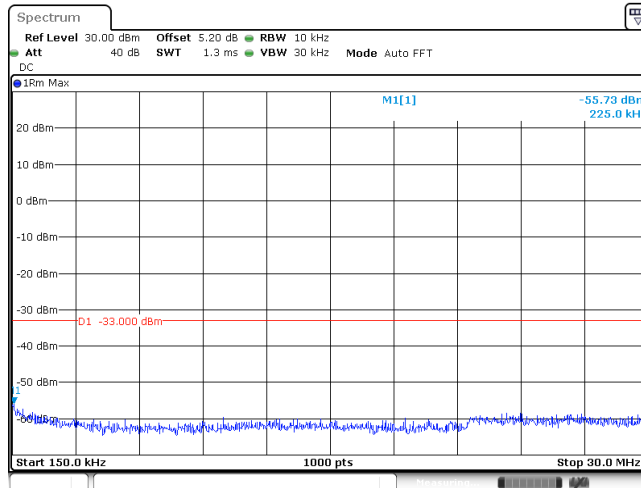


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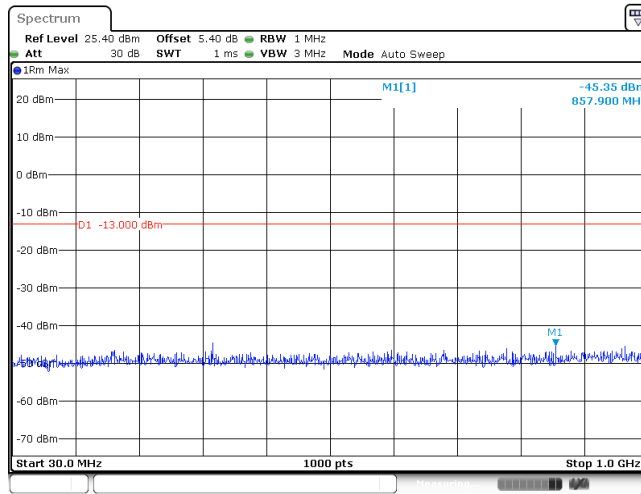


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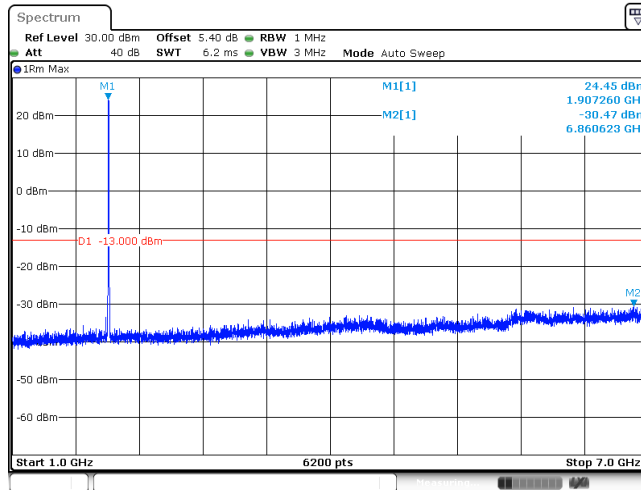


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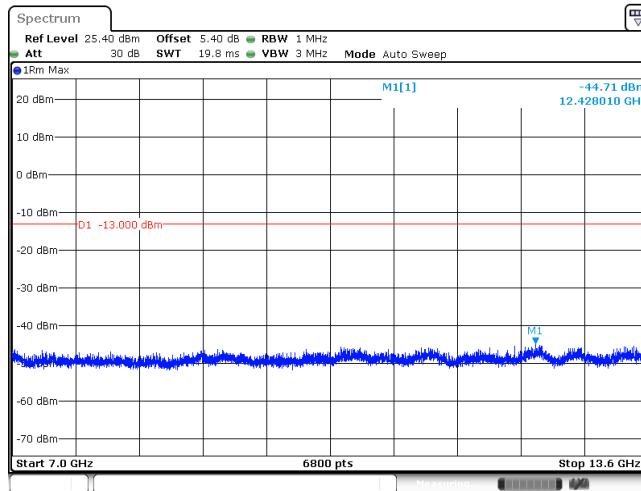


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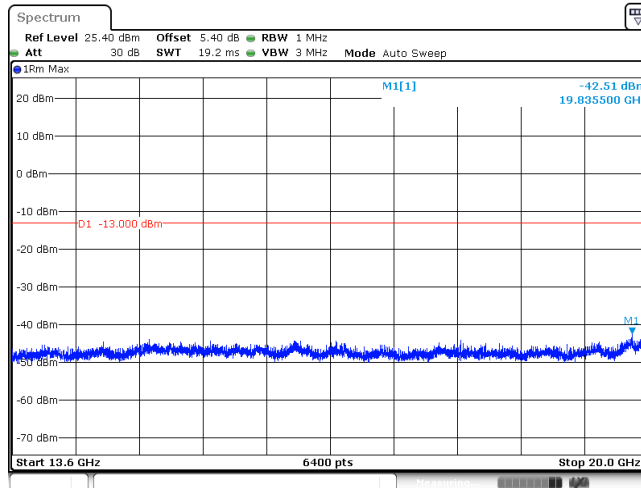


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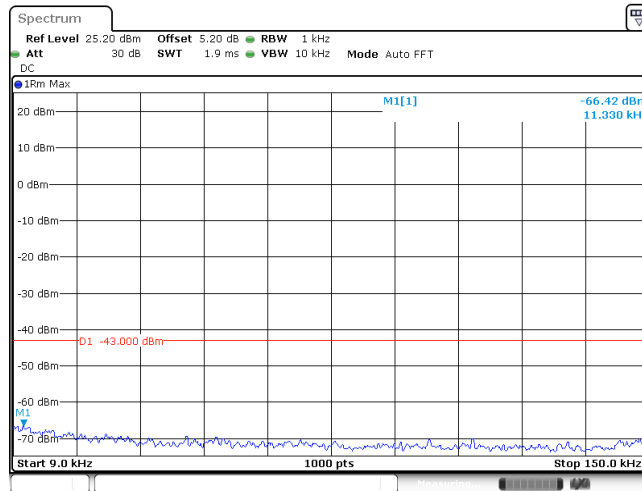


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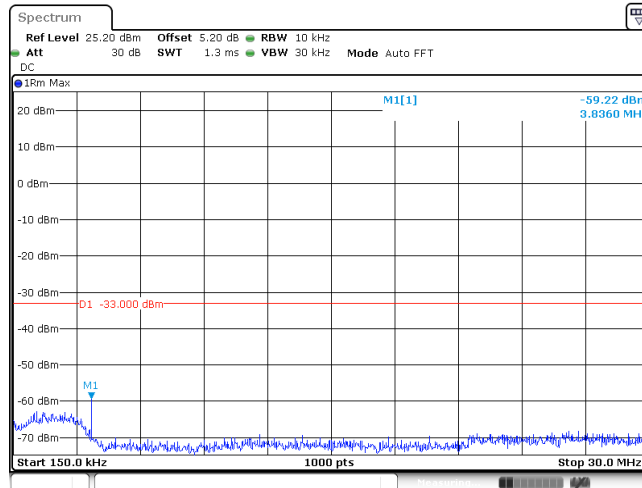


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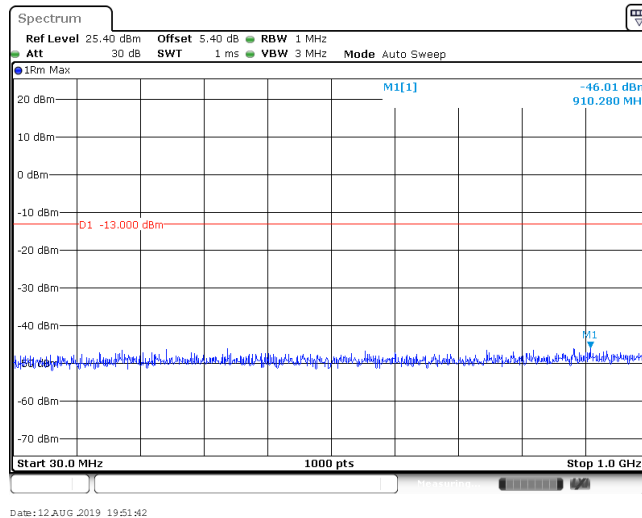


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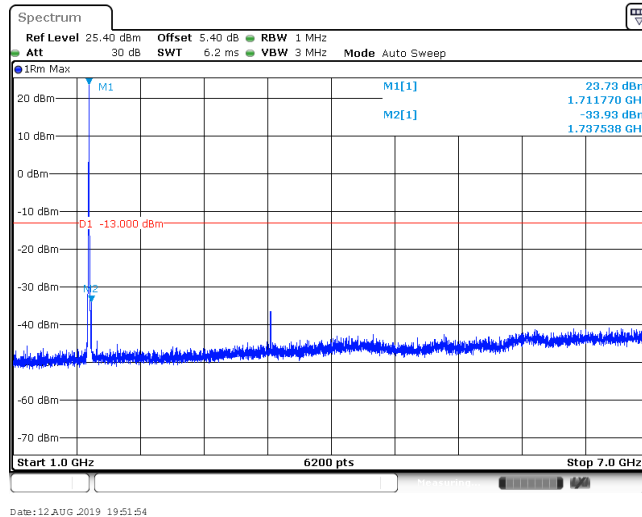
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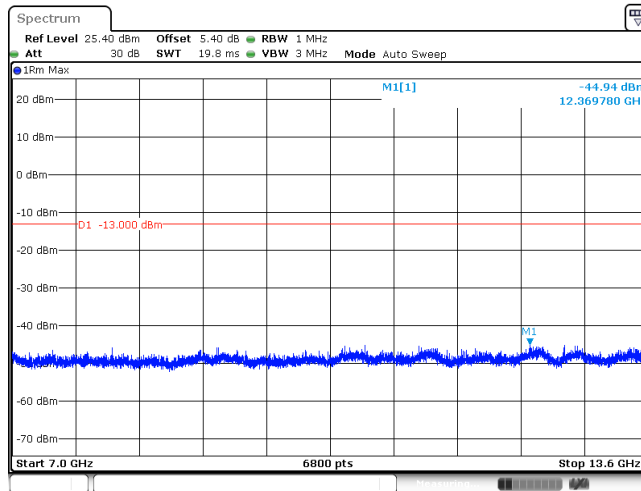
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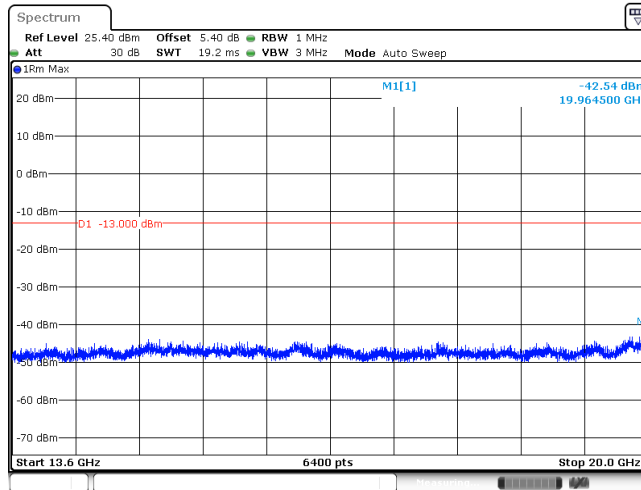
BAND IV_QPSK_1312



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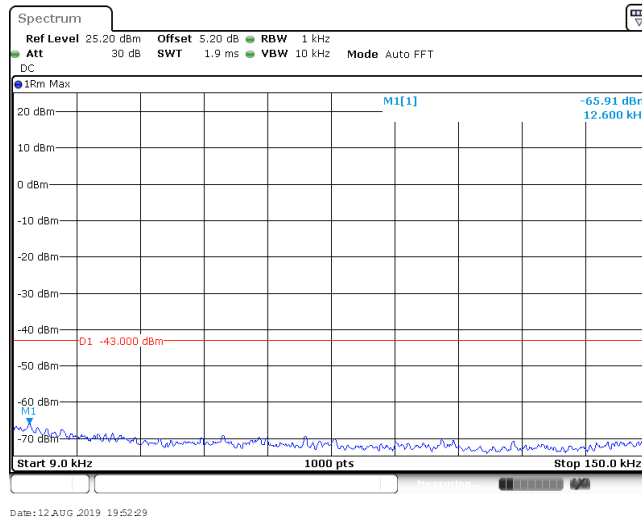


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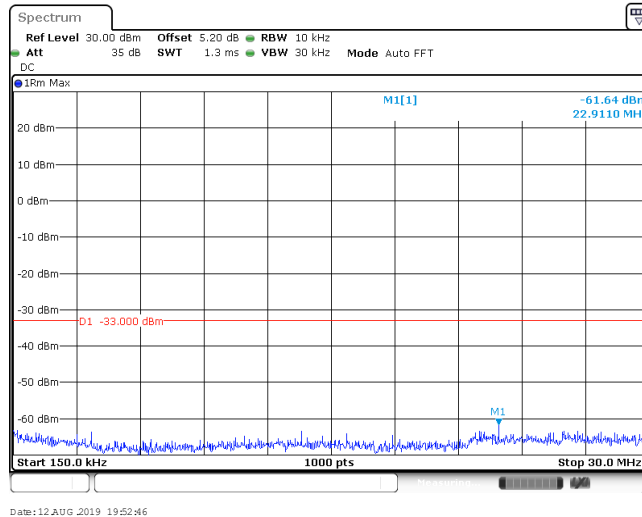


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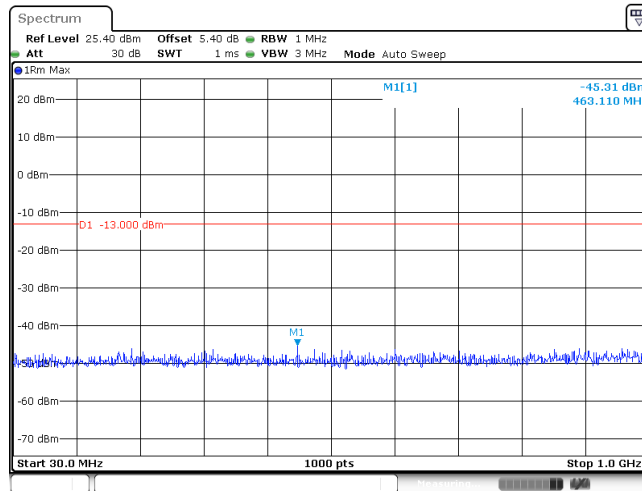
BAND IV_QPSK_1413



BAND IV_QPSK_1413

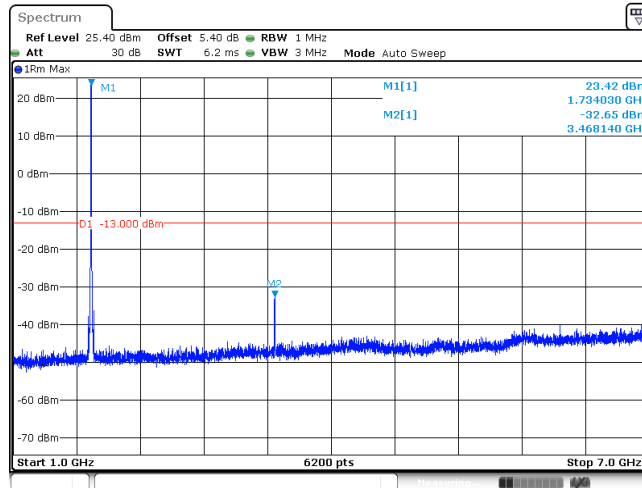


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Date: 12 AUG 2019 19:52:57

BAND IV_QPSK_1413

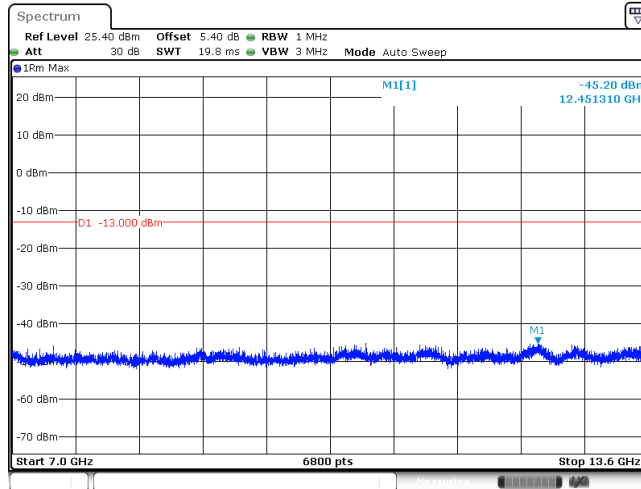


Date: 12 AUG 2019 19:53:09

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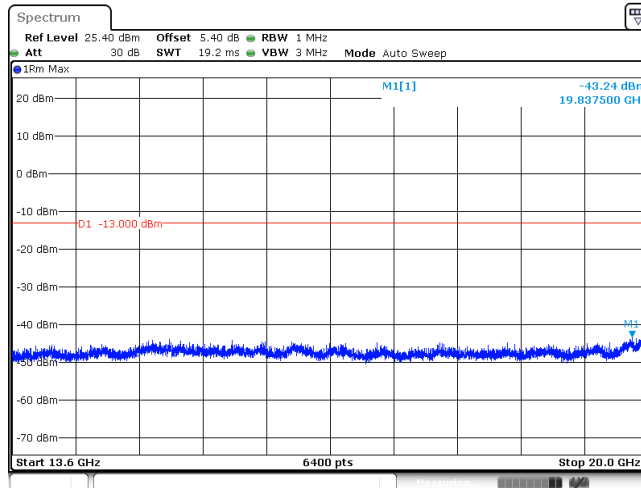


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Date: 12 AUG 2019 19:53:20

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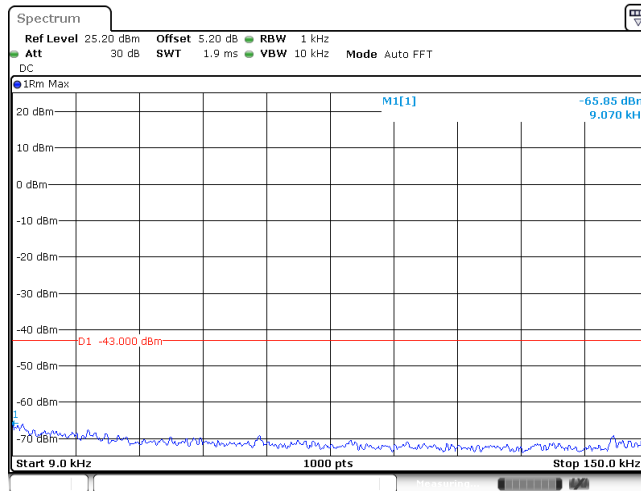


Date: 12 AUG 2019 19:53:31

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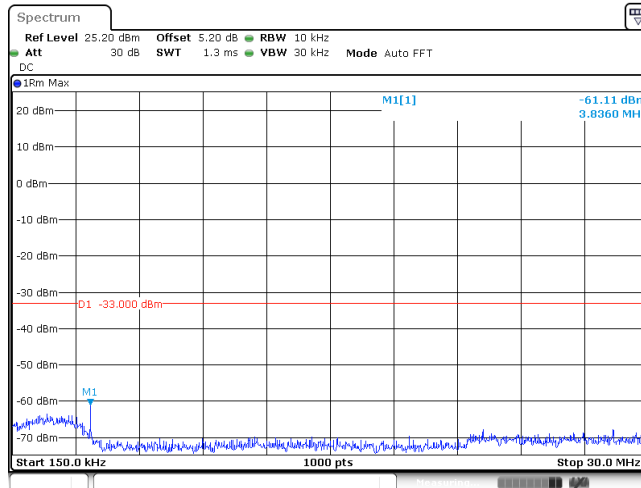


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Date: 12 AUG 2019 19:53:44

BAND IV_QPSK_1513

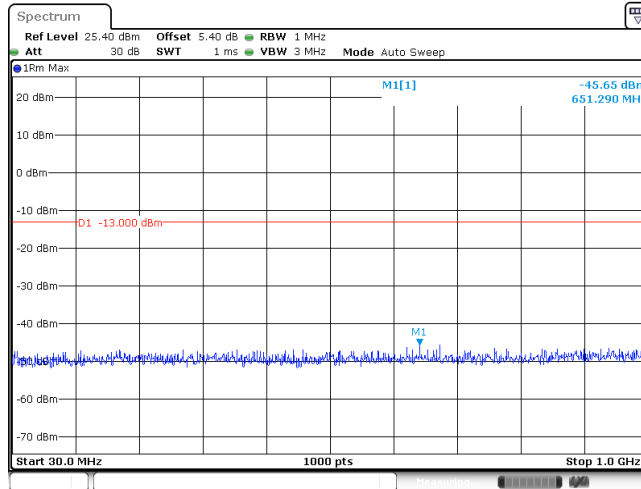


Date: 12 AUG 2019 19:53:55

BAND IV_QPSK_1513

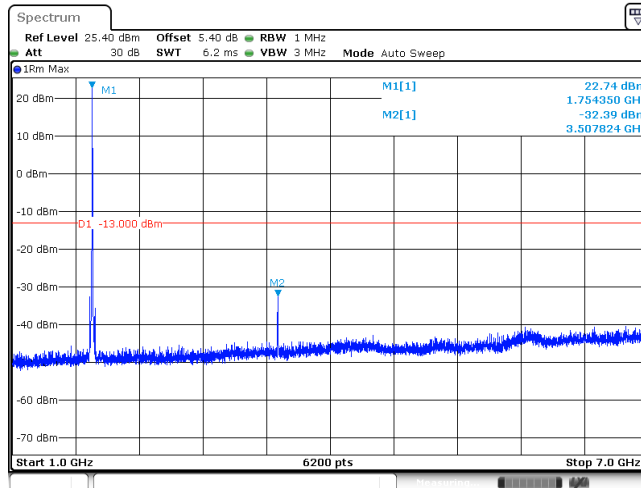


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Date: 12 AUG 2019 19:54:06

BAND IV_QPSK_1513

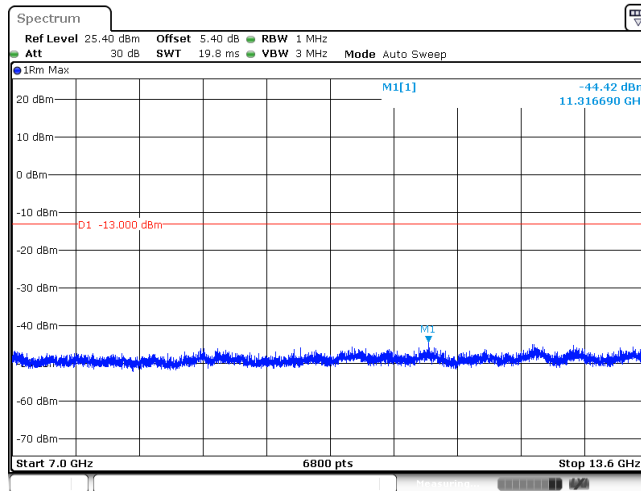


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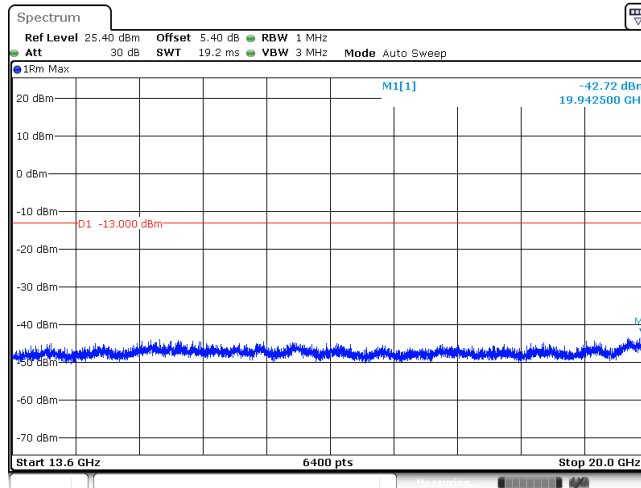


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Date: 12 AUG 2019 19:54:29

BAND IV_QPSK_1513

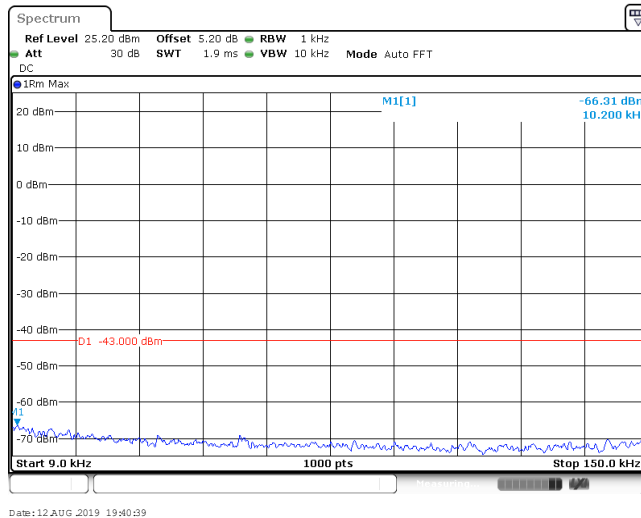


Date: 12 AUG 2019 19:54:40

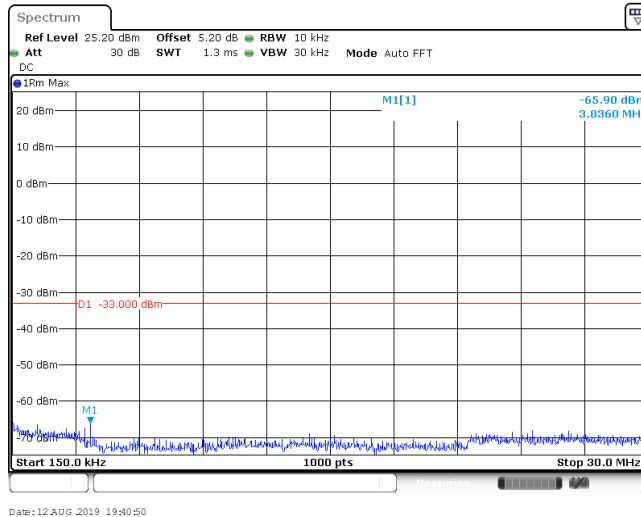
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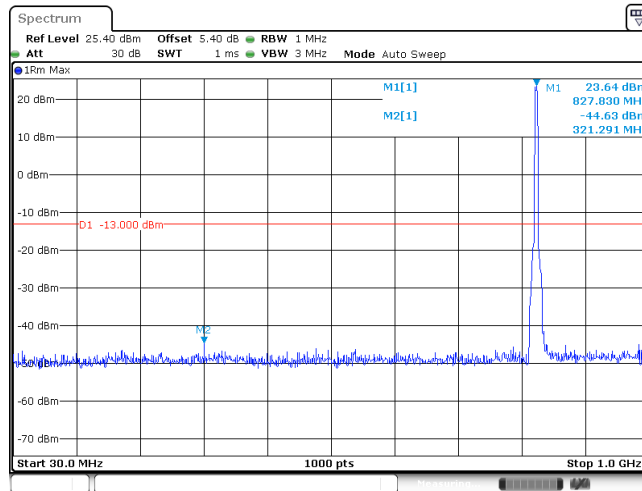
BAND V_QPSK_4132



BAND V_QPSK_4132

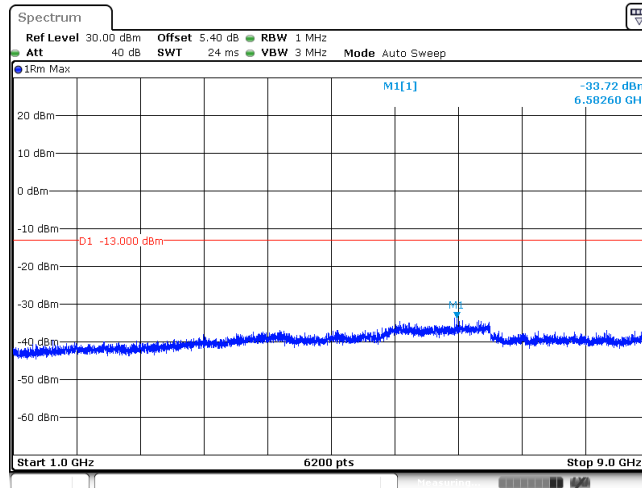


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Date: 12 AUG 2019 19:41:02

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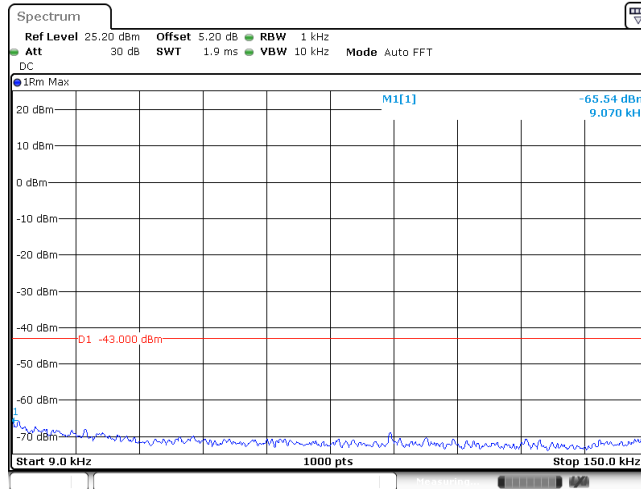


Date: 12 AUG 2019 19:41:13

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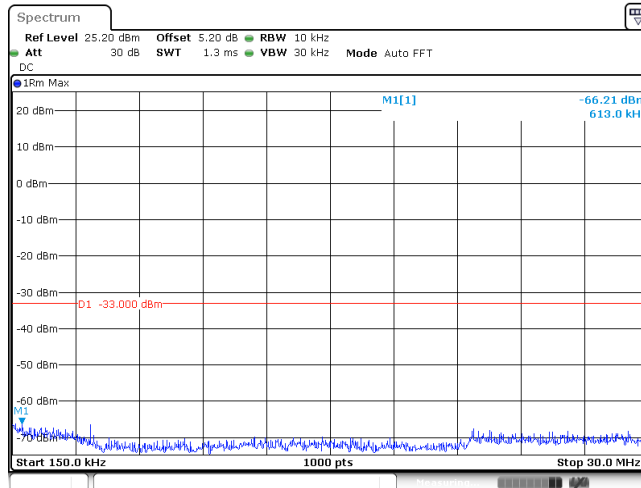


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Date: 12 AUG 2019 19:41:26

BAND V_QPSK_4182



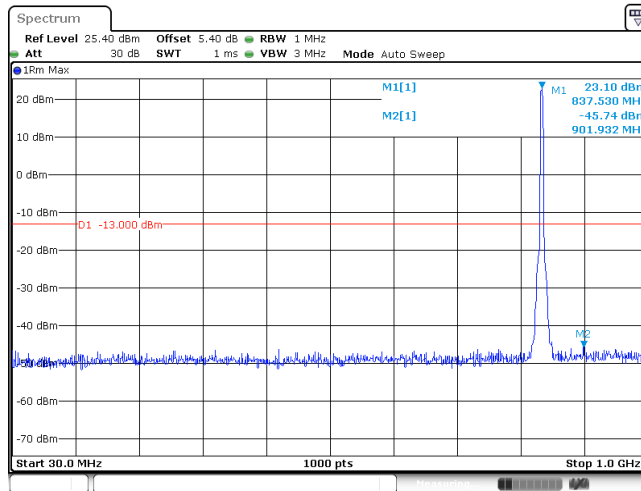
Date: 12 AUG 2019 19:41:37

BAND V_QPSK_4182



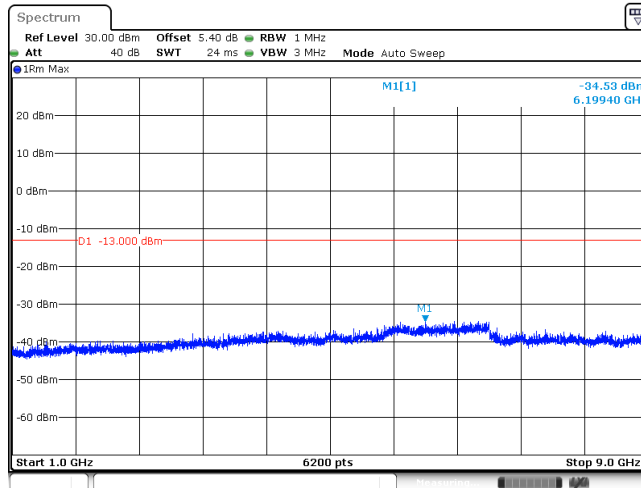
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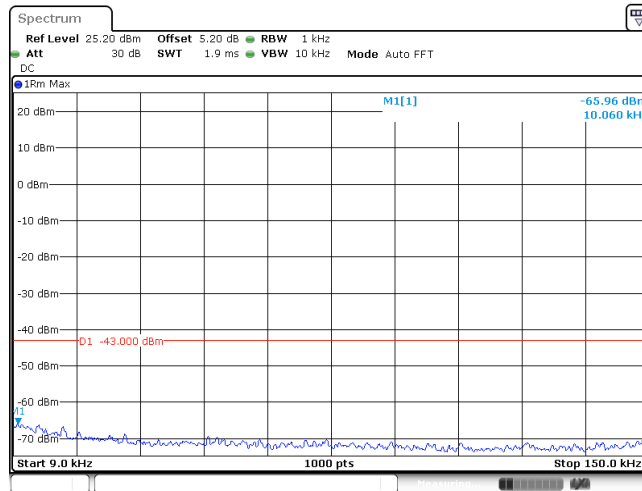


Date: 12 AUG 2019 19:42:00

BAND V_QPSK_4182

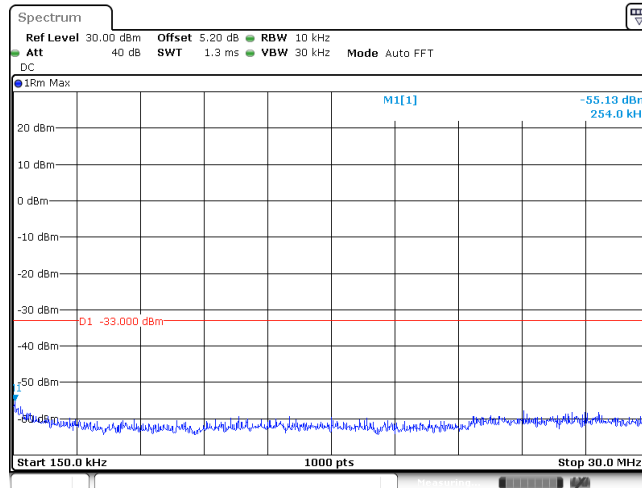


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Date: 12 AUG 2019 19:42:13

BAND V_QPSK_4233

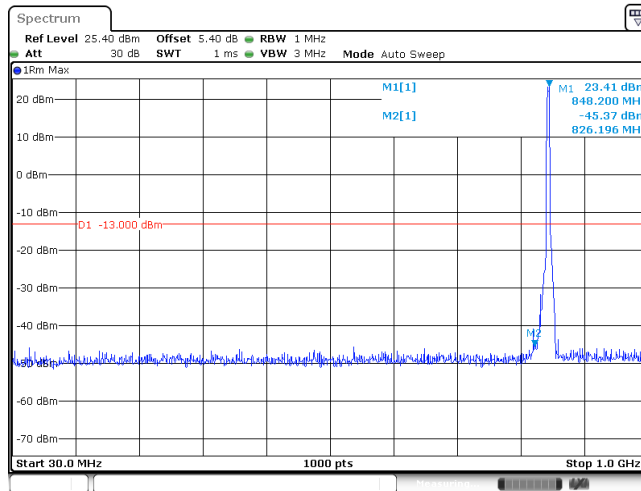


Date: 12 AUG 2019 19:42:17

BAND V_QPSK_4233

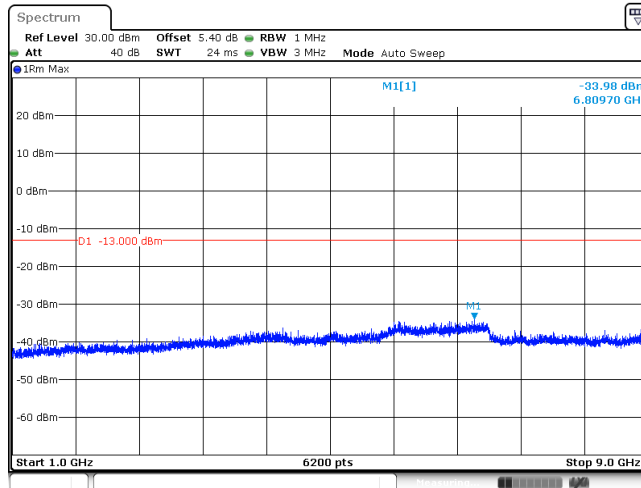


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Date: 12 AUG 2019 19:42:49

BAND V_QPSK_4233



Date: 12 AUG 2019 19:43:00

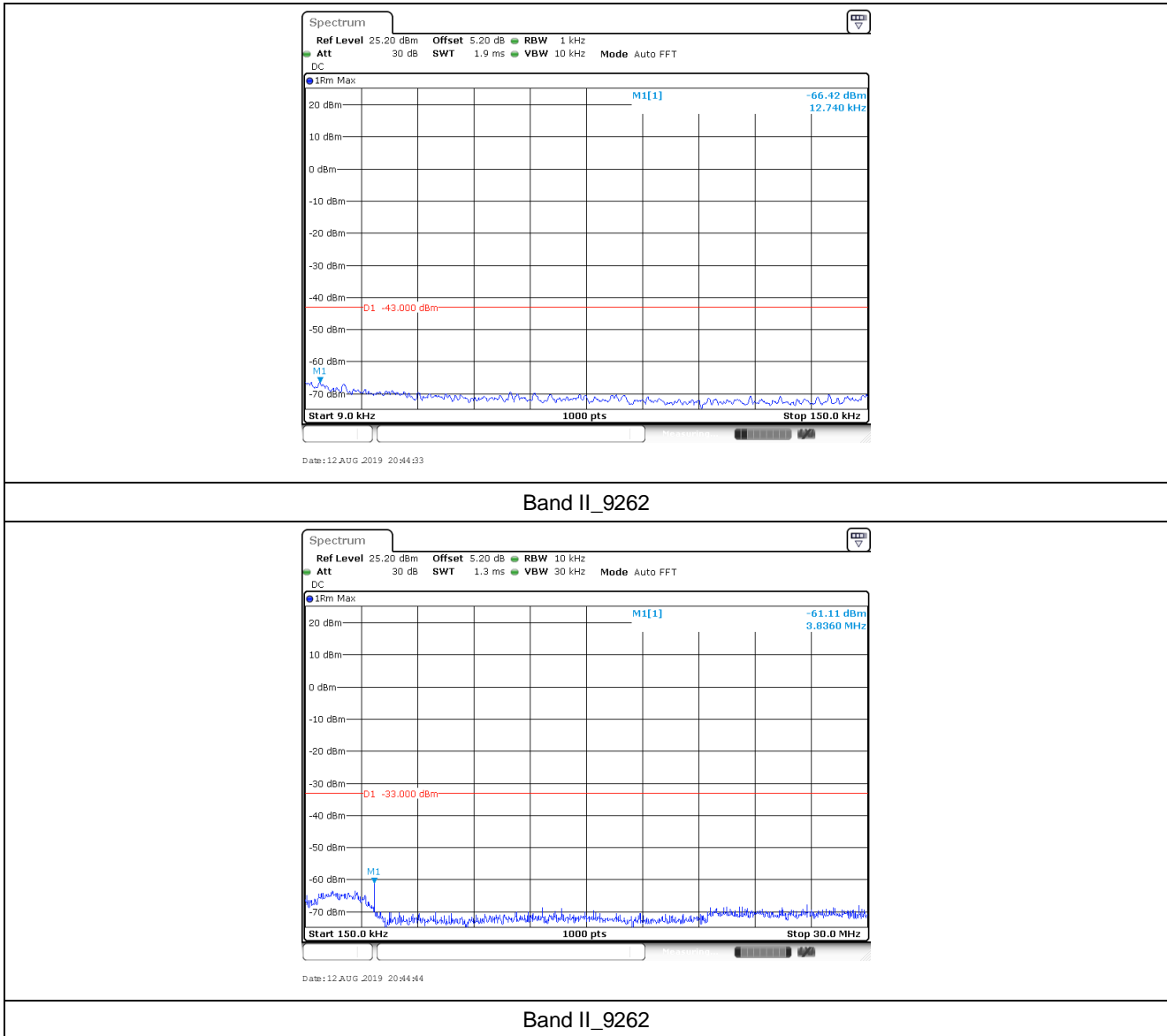
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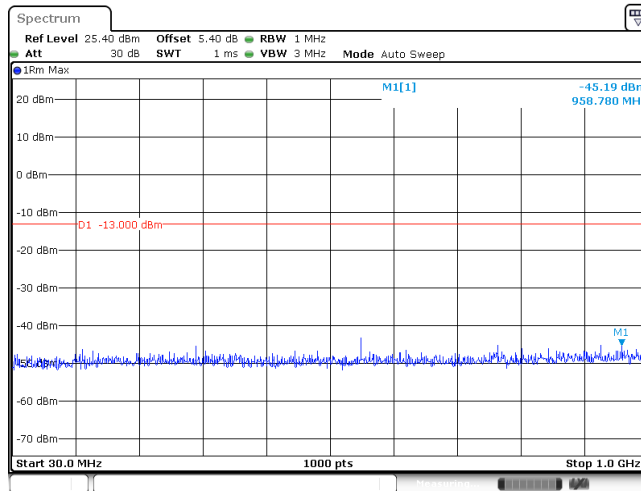
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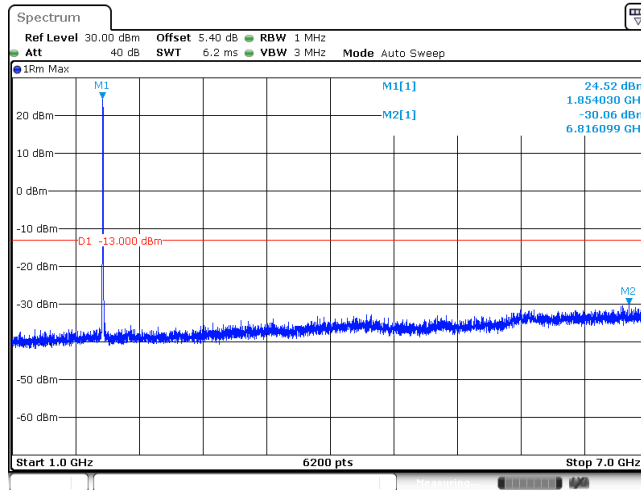
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Band II_9262

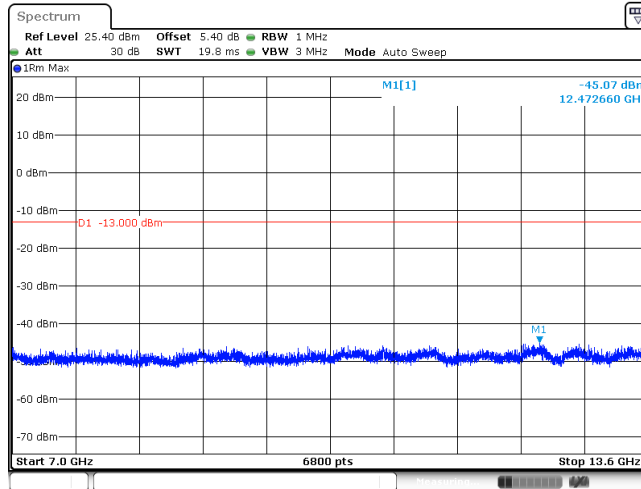


Date: 12 AUG 2019 20:45:06

Band II_9262

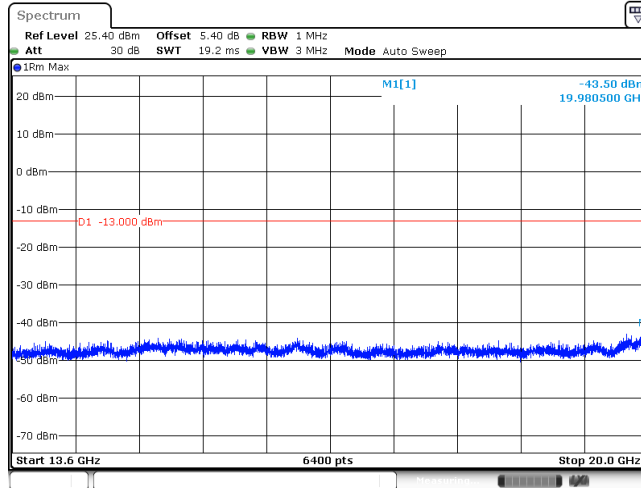


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Date: 12 AUG 2019 20:45:17

Band II_9262

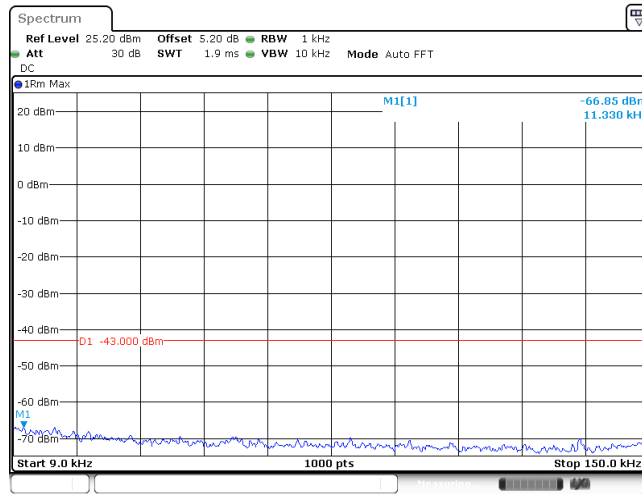


Date: 12 AUG 2019 20:45:28

Band II_9262

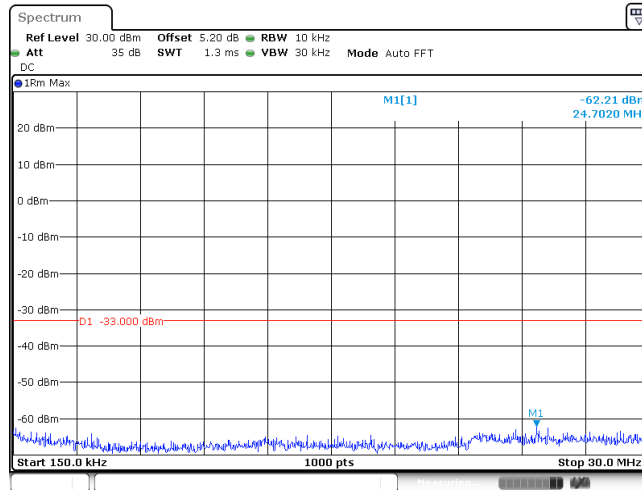


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Band II_9400

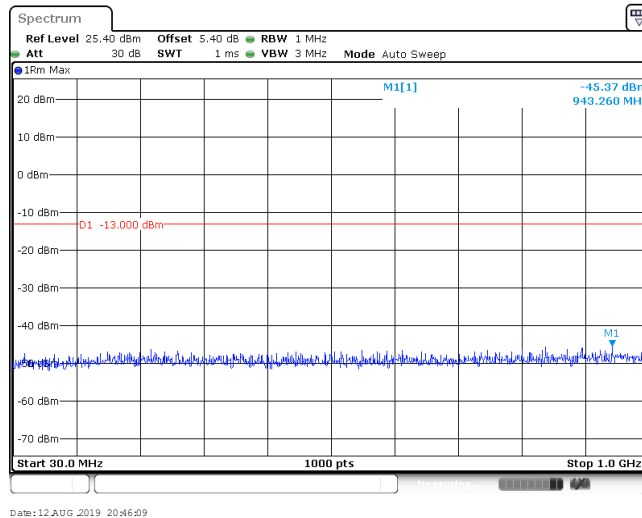


Date: 12 AUG 2019 20:45:59

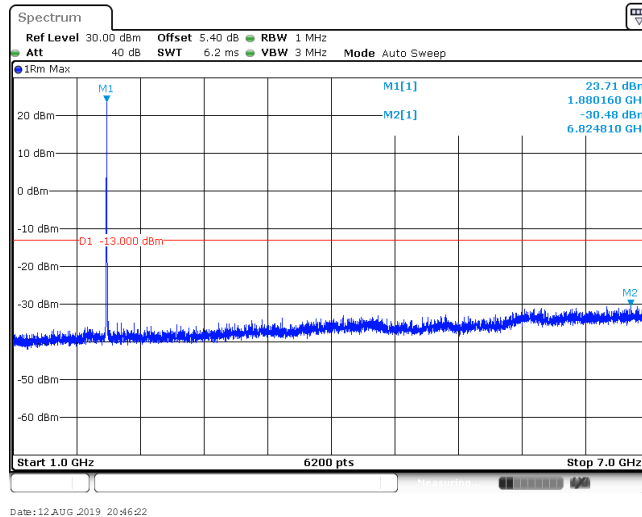
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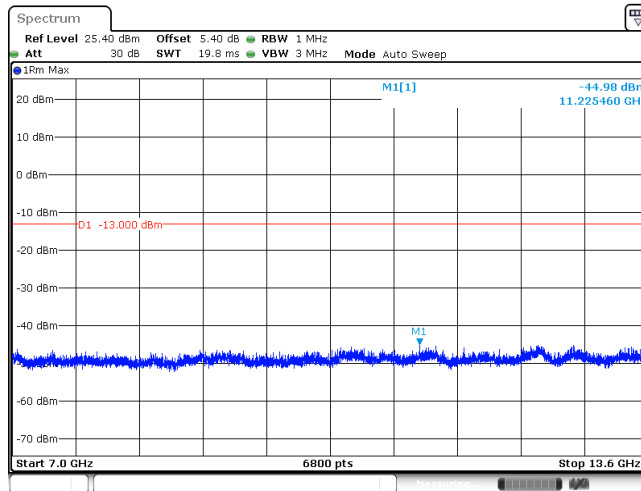
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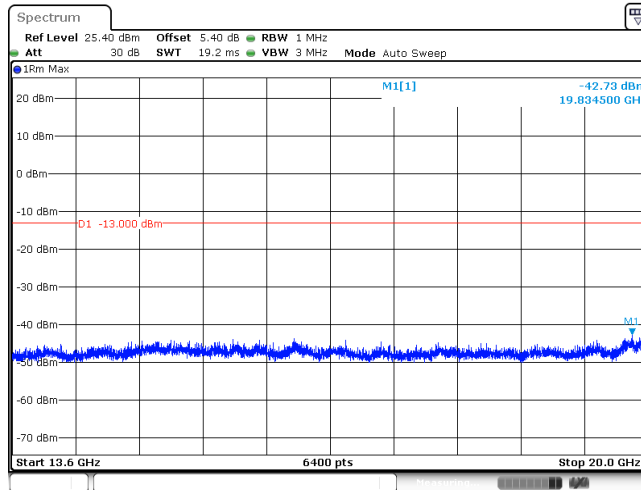


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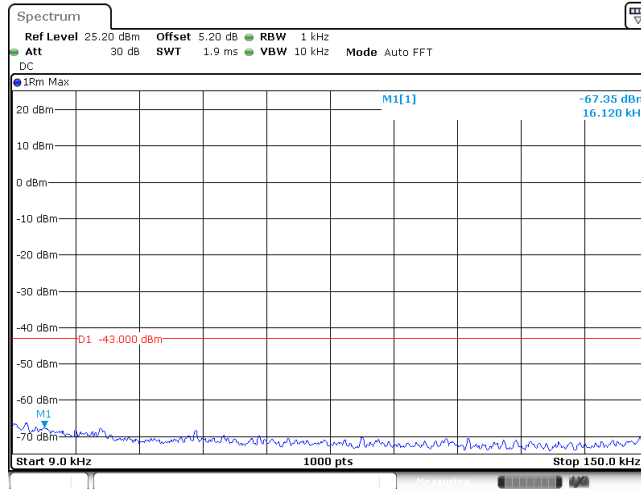


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Band II_9400

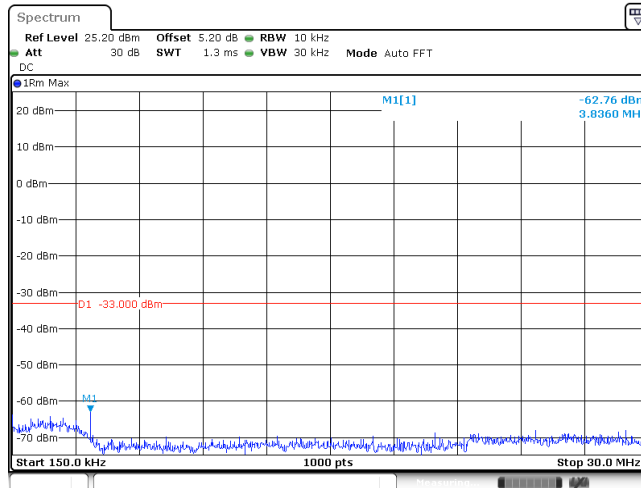


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Band II_9538

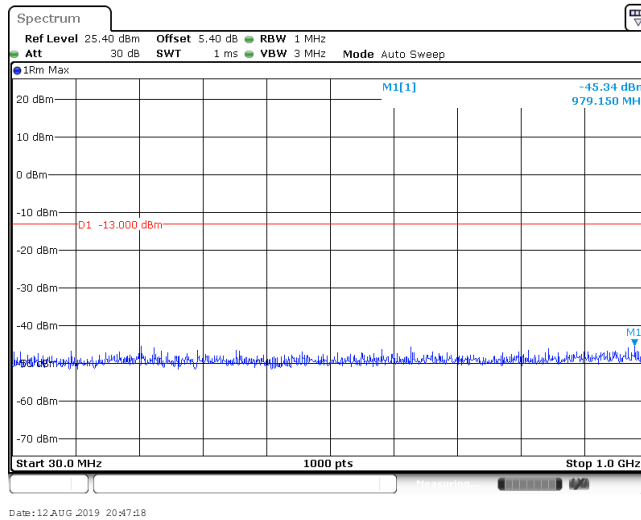


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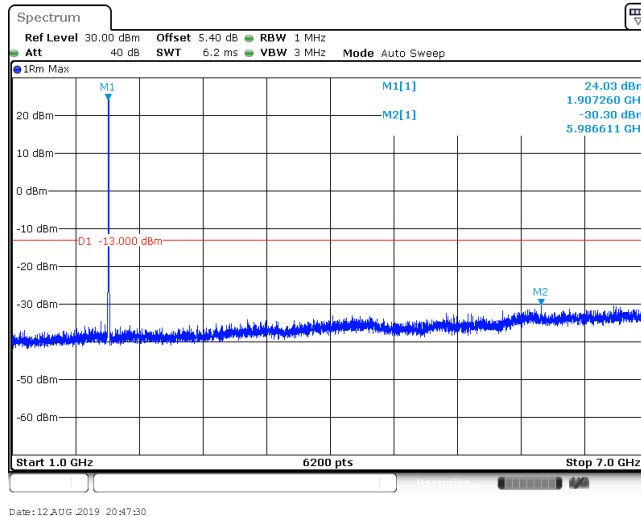
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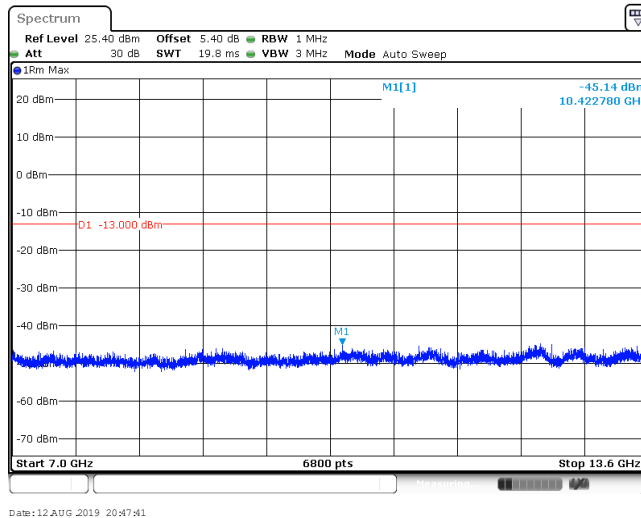


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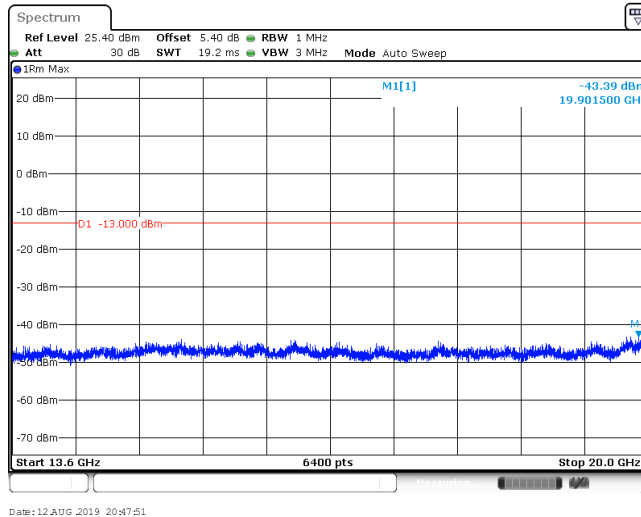


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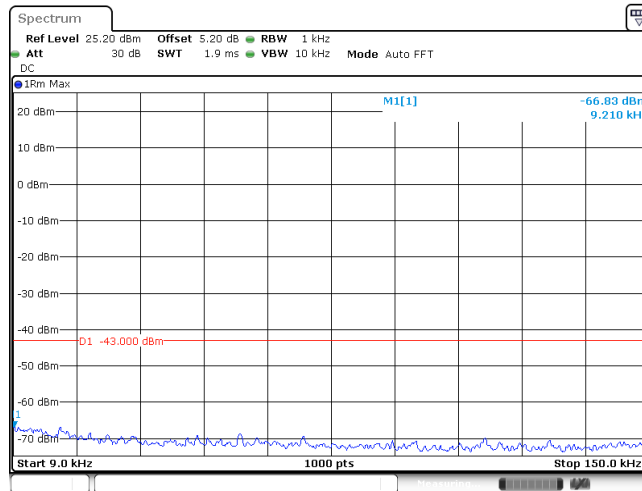
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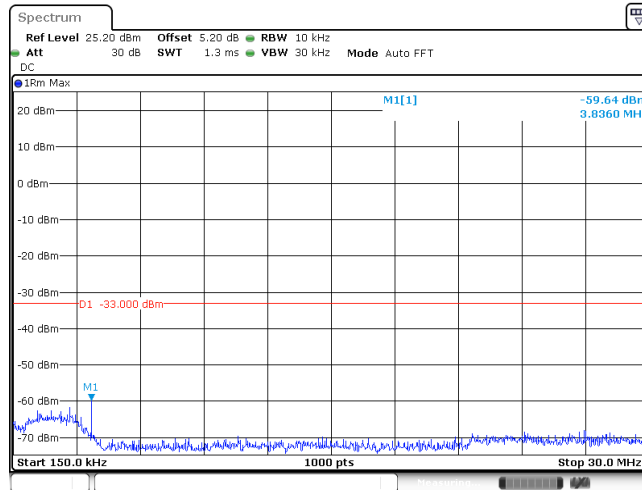


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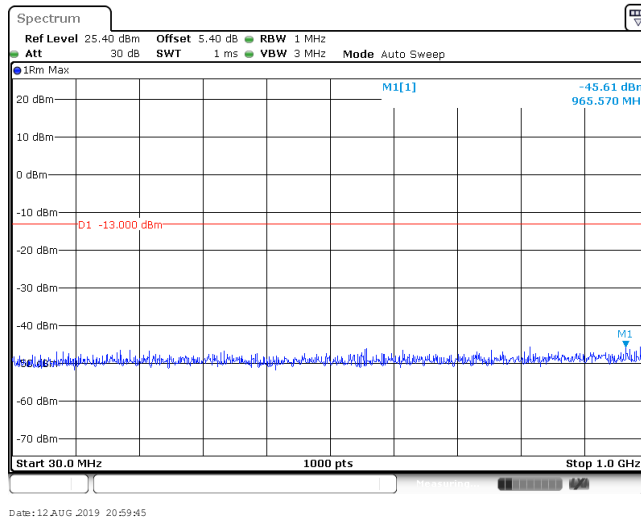


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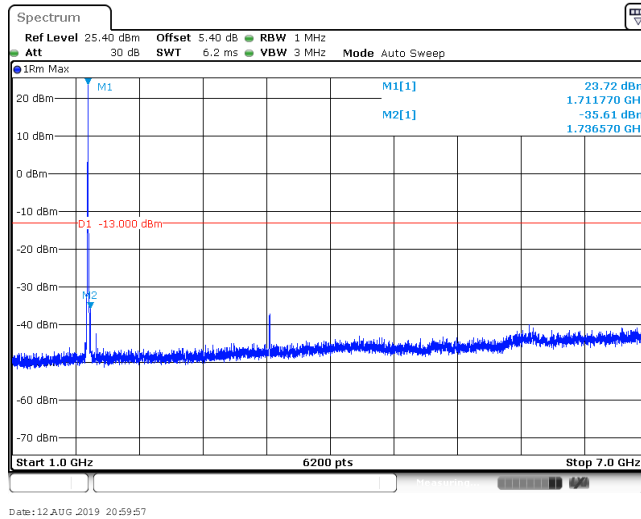
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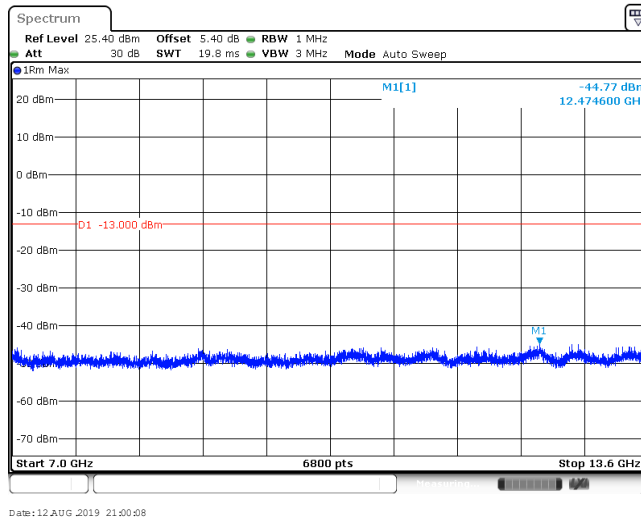
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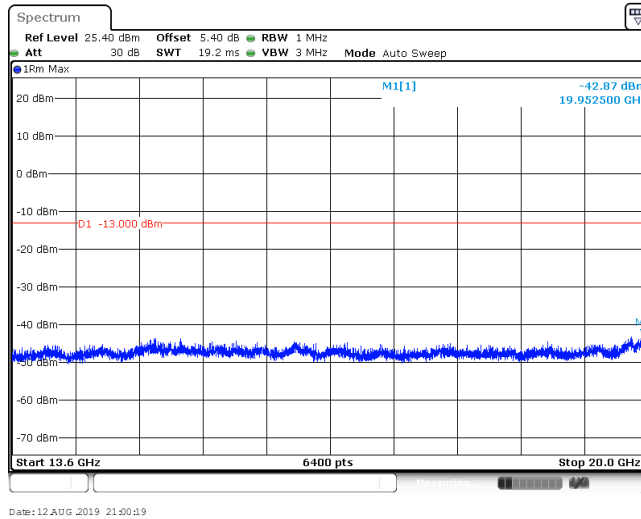
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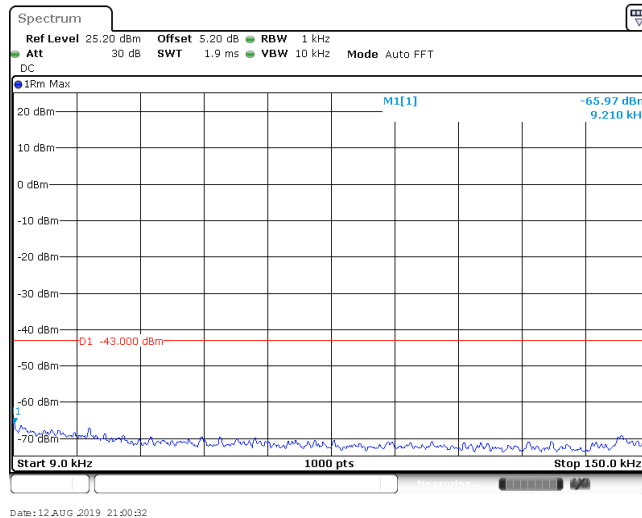
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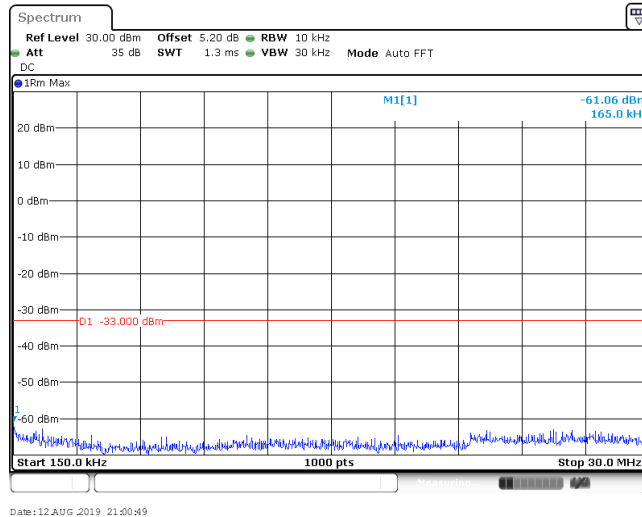
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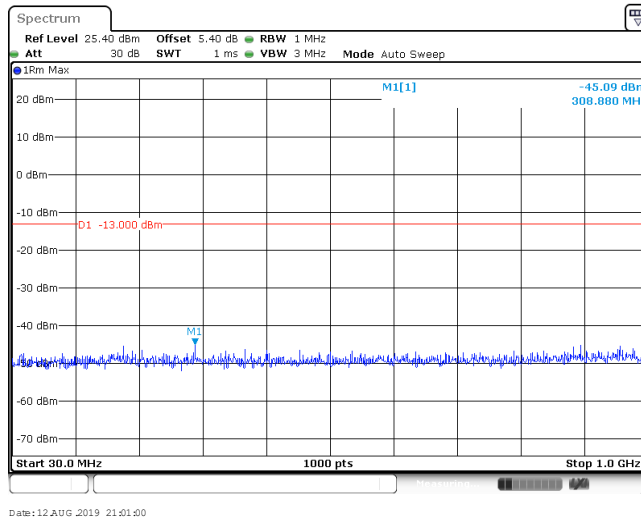


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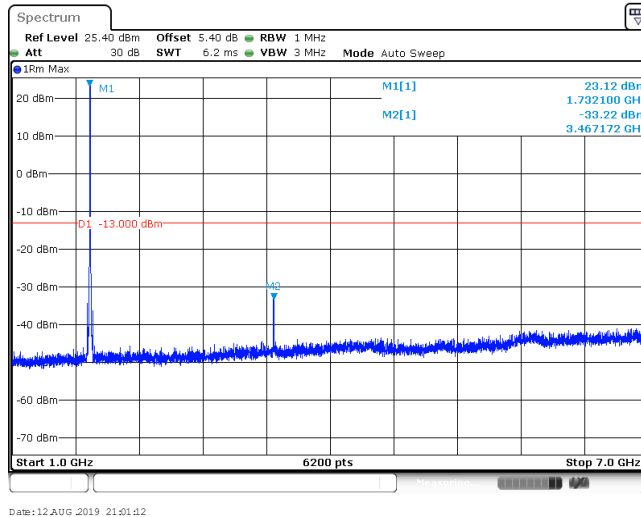


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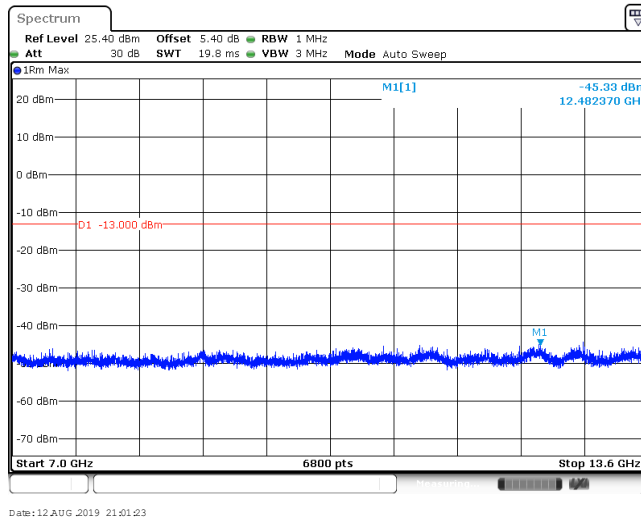
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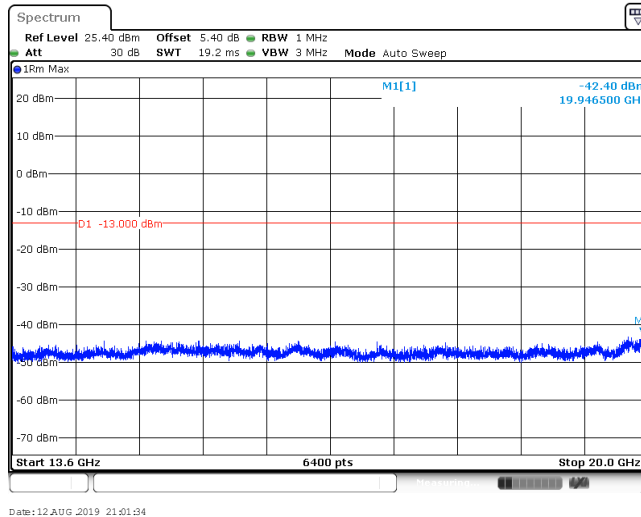
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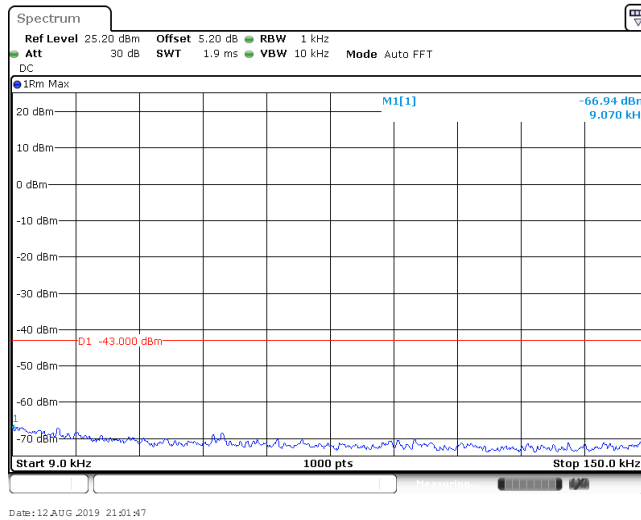
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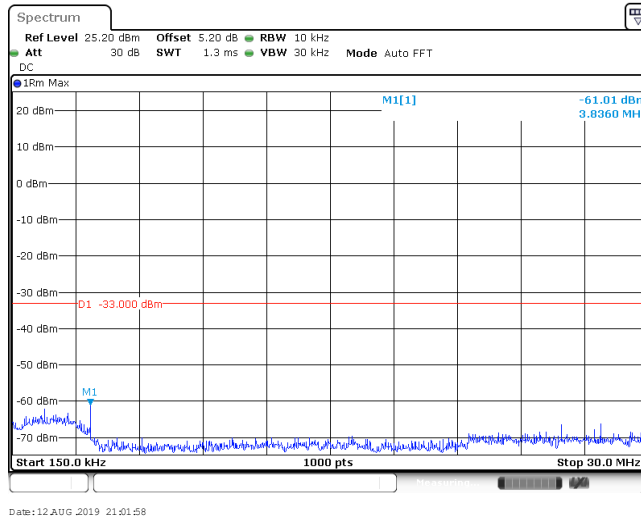
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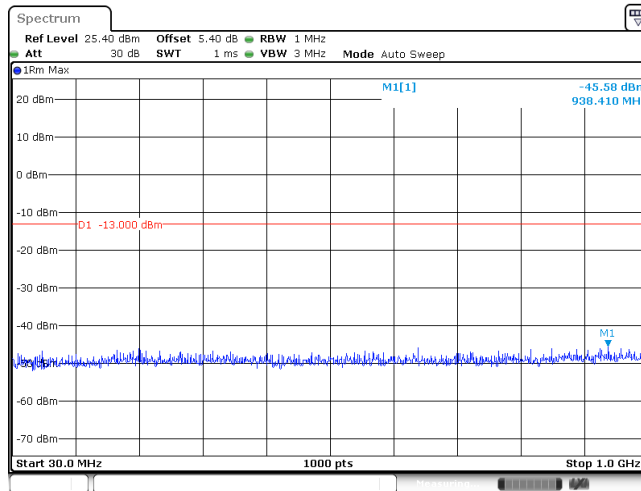
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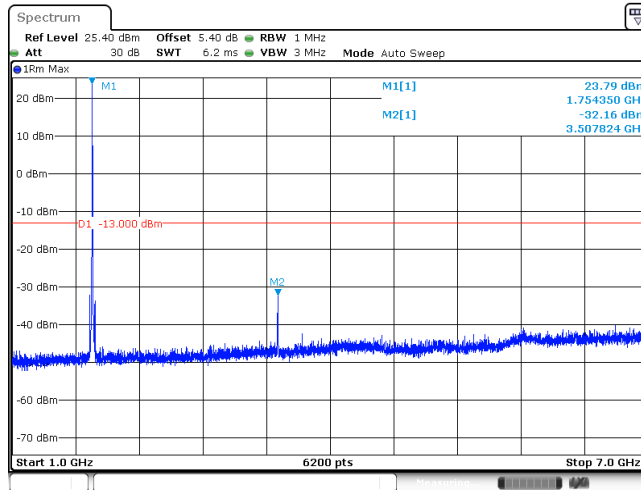


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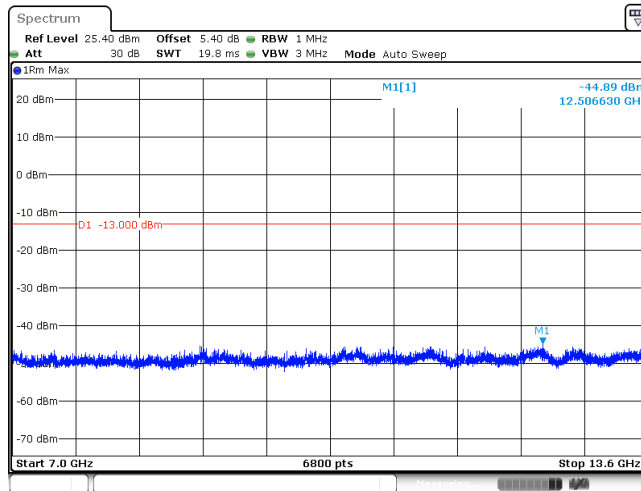


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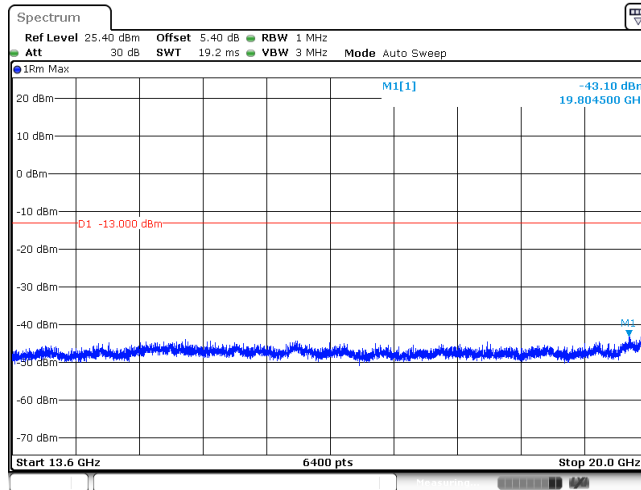


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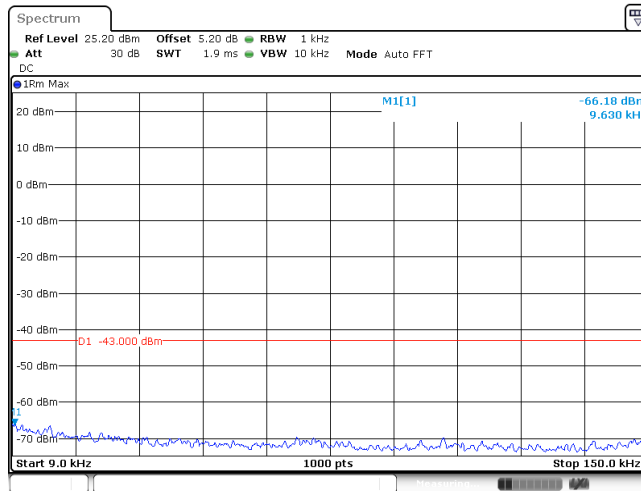


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Band IV_1513

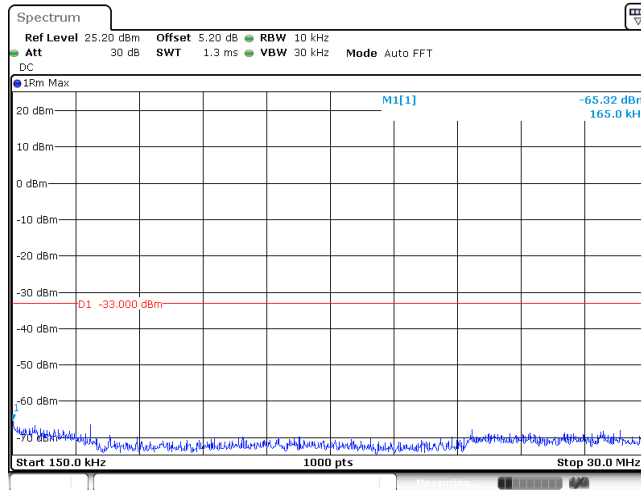


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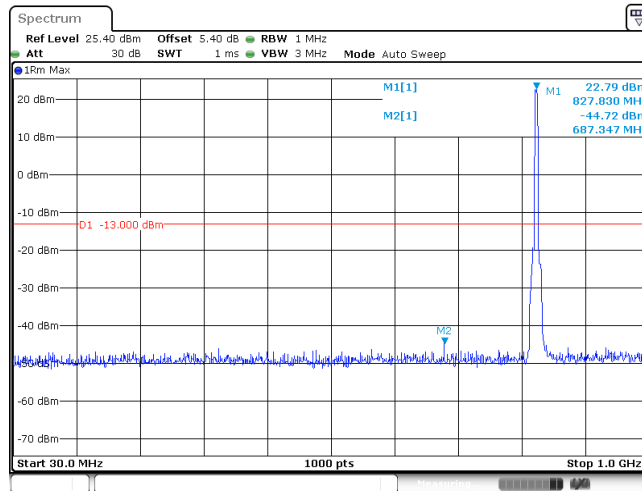


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Band V_4132

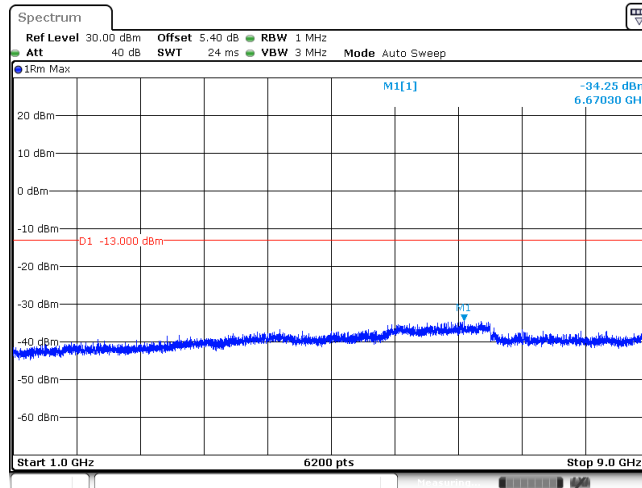


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Date: 12 AUG 2019 20:53:06

Band V_4132



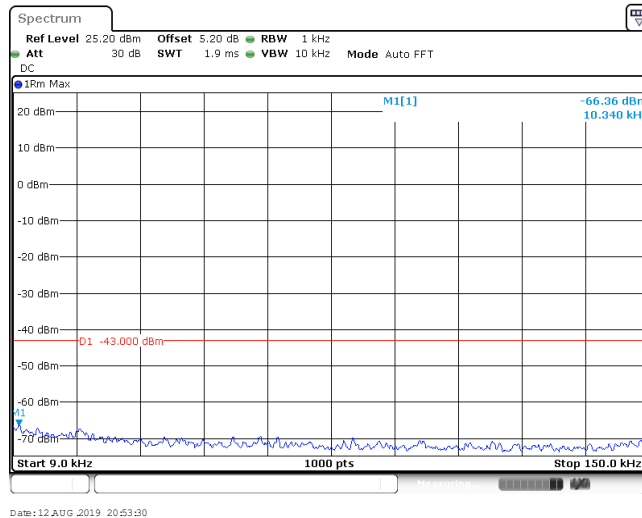
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Band V_4132

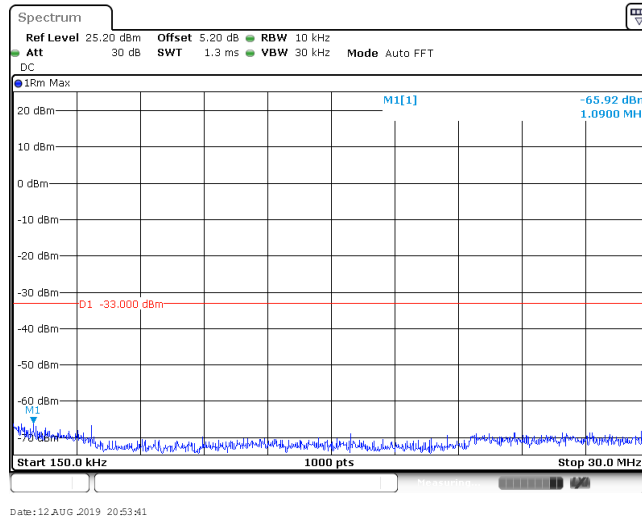


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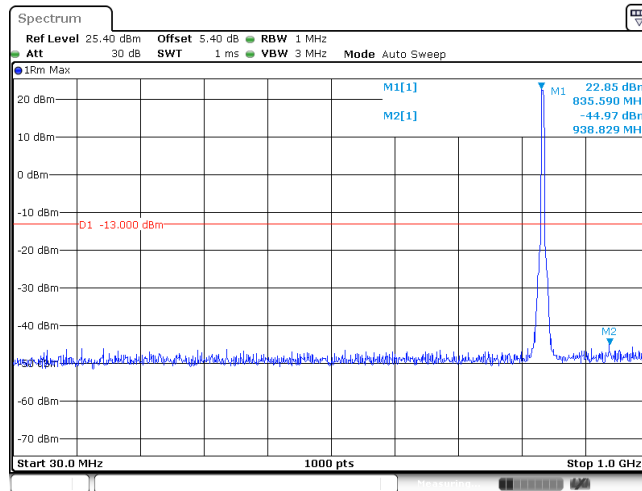
Band V_4182



Band V_4182

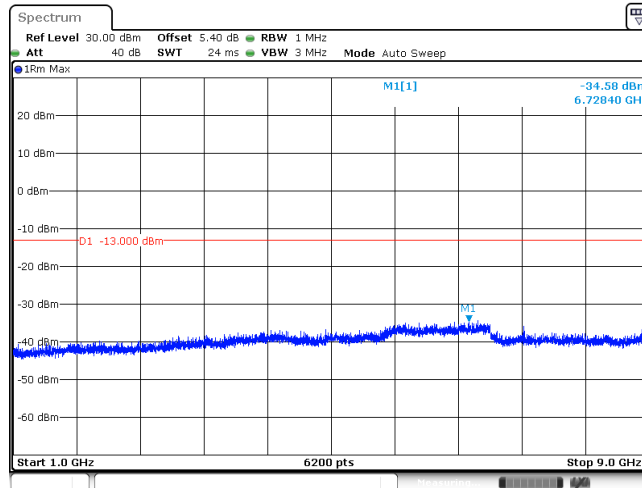


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Date: 12 AUG 2019 20:53:53

Band V_4182

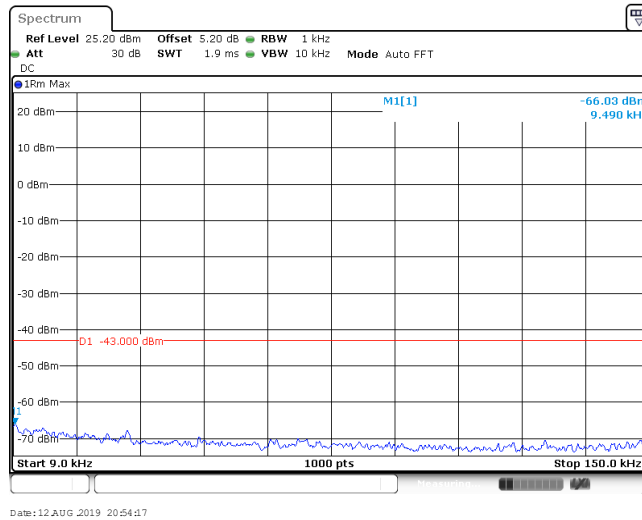


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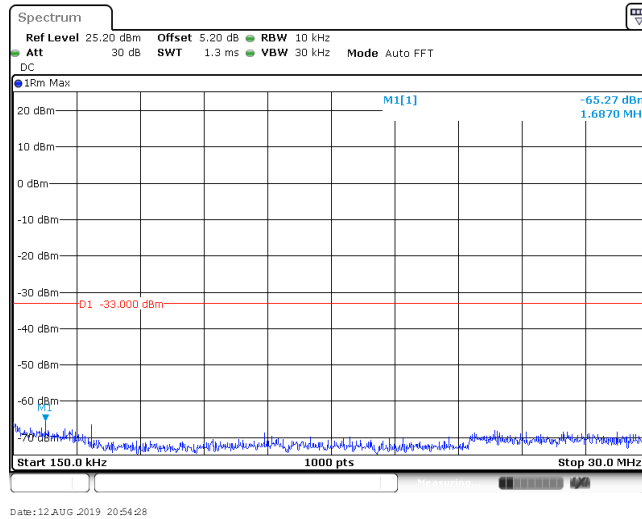
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Band V_4233

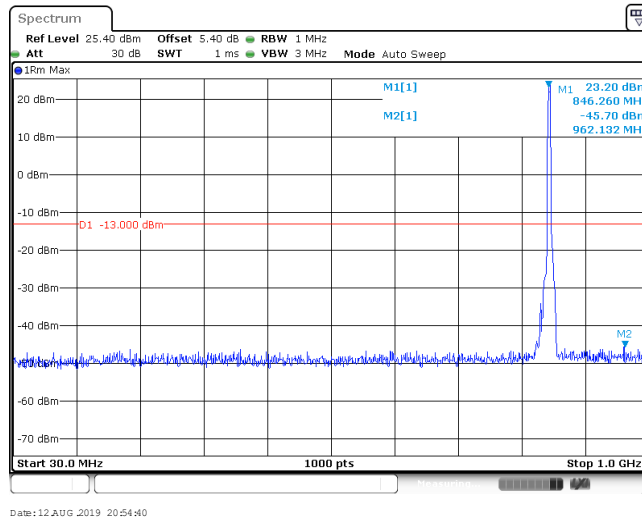


Band V_4233

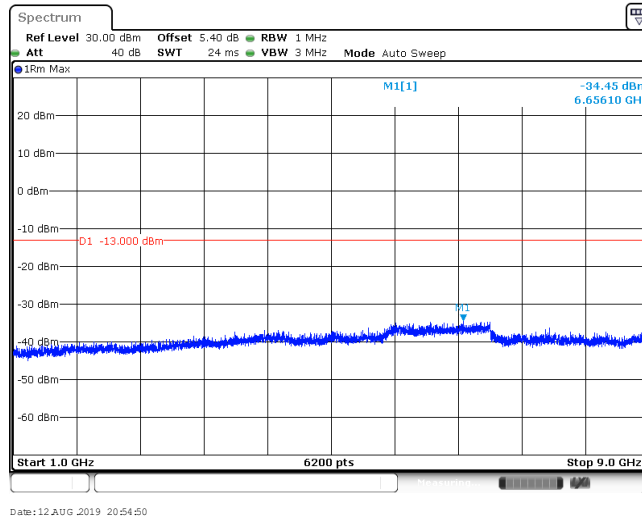


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7. Field Strength of Spurious Radiation

7.1. Test BAND = WCDMA BAND II

7.1.1. Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.1028	-63.91	-13.00	50.91	Horizontal
243.6047	-68.20	-13.00	55.20	Horizontal
2697.5395	-35.36	-13.00	22.36	Horizontal
7986.6662	-52.11	-13.00	39.11	Horizontal
16370.4457	-37.78	-13.00	24.78	Horizontal
17985.9995	-36.77	-13.00	23.77	Horizontal
110.4170	-64.98	-13.00	51.98	Vertical
617.9464	-63.59	-13.00	50.59	Vertical
2698.3397	-36.52	-13.00	23.52	Vertical
7969.1656	-52.09	-13.00	39.09	Vertical
14696.8899	-42.15	-13.00	29.15	Vertical
17988.4996	-31.88	-13.00	18.88	Vertical

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
43.4837	-64.64	-13.00	51.64	Horizontal
233.0312	-67.78	-13.00	54.78	Horizontal
2700.3401	-35.28	-13.00	22.28	Horizontal
9289.2096	-48.80	-13.00	35.80	Horizontal
16398.9466	-37.88	-13.00	24.88	Horizontal
17985.4995	-37.01	-13.00	24.01	Horizontal
113.3757	-64.29	-13.00	51.29	Vertical
688.8569	-62.79	-13.00	49.79	Vertical
2700.3401	-36.67	-13.00	23.67	Vertical
7379.1460	-52.93	-13.00	39.93	Vertical
14693.3898	-42.36	-13.00	29.36	Vertical
17992.9998	-32.21	-13.00	19.21	Vertical



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
43.5322	-63.63	-13.00	50.63	Horizontal
753.5592	-61.56	-13.00	48.56	Horizontal
2707.5415	-35.19	-13.00	22.19	Horizontal
3817.5273	-54.69	-13.00	41.69	Horizontal
16400.4467	-37.59	-13.00	24.59	Horizontal
17994.9998	-37.12	-13.00	24.12	Horizontal
108.2344	-65.09	-13.00	52.09	Vertical
815.0118	-61.76	-13.00	48.76	Vertical
2699.5399	-36.66	-13.00	23.66	Vertical
5722.0907	-53.99	-13.00	40.99	Vertical
14418.3806	-43.28	-13.00	30.28	Vertical
17991.4997	-32.31	-13.00	19.31	Vertical

7.2. Test BAND = WCDMA BAND IV

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
40.6705	-65.13	-13.00	52.13	Horizontal
228.1809	-67.83	-13.00	54.83	Horizontal
2703.5407	-35.20	-13.00	22.20	Horizontal
3423.5141	-49.81	-13.00	36.81	Horizontal
16386.9462	-37.46	-13.00	24.46	Horizontal
17995.4999	-36.84	-13.00	23.84	Horizontal
108.7194	-64.41	-13.00	51.41	Vertical
734.8372	-61.09	-13.00	48.09	Vertical
2699.5399	-36.49	-13.00	23.49	Vertical
3423.0141	-55.42	-13.00	42.42	Vertical
14720.3907	-42.20	-13.00	29.20	Vertical
17800.9934	-35.63	-13.00	22.63	Vertical

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
41.9316	-63.68	-13.00	50.68	Horizontal



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236.3778	-68.07	-13.00	55.07	Horizontal
2699.9400	-35.37	-13.00	22.37	Horizontal
3463.5155	-52.24	-13.00	39.24	Horizontal
16387.9463	-37.21	-13.00	24.21	Horizontal
17994.4998	-36.61	-13.00	23.61	Horizontal
109.9805	-65.18	-13.00	52.18	Vertical
840.8150	-61.25	-13.00	48.25	Vertical
2691.9384	-36.51	-13.00	23.51	Vertical
3466.5156	-57.06	-13.00	44.06	Vertical
14507.3836	-42.92	-13.00	29.92	Vertical
17999.0000	-32.00	-13.00	19.00	Vertical

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
41.7861	-64.29	-13.00	51.29	Horizontal
232.9826	-68.29	-13.00	55.29	Horizontal
2694.3389	-35.30	-13.00	22.30	Horizontal
3507.0169	-45.39	-13.00	32.39	Horizontal
16400.4467	-37.97	-13.00	24.97	Horizontal
17987.9996	-37.16	-13.00	24.16	Horizontal
110.6110	-64.77	-13.00	51.77	Vertical
627.5984	-63.57	-13.00	50.57	Vertical
2689.5379	-36.38	-13.00	23.38	Vertical
3504.0168	-50.60	-13.00	37.60	Vertical
14660.3887	-42.33	-13.00	29.33	Vertical
17987.4996	-32.31	-13.00	19.31	Vertical

7.3. Test BAND = WCDMA BAND V

7.3.1. Test Mode = WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
42.6106	-64.96	-13.00	51.96	Horizontal
229.2965	-68.46	-13.00	55.46	Horizontal
1654.5309	-57.24	-13.00	44.24	Horizontal
2439.0878	-37.86	-13.00	24.86	Horizontal
16410.4470	-37.66	-13.00	24.66	Horizontal



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17996.9999	-36.77	-13.00	23.77	Horizontal
104.4997	-66.25	-13.00	53.25	Vertical
601.0676	-63.62	-13.00	50.62	Vertical
1650.5301	-60.70	-13.00	47.70	Vertical
2454.2909	-52.85	-13.00	39.85	Vertical
14720.3907	-41.83	-13.00	28.83	Vertical
17903.4968	-34.21	-13.00	21.21	Vertical

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
43.3867	-63.28	-13.00	50.28	Horizontal
229.1025	-68.73	-13.00	55.73	Horizontal
1699.7399	-63.56	-13.00	50.56	Horizontal
2452.6905	-27.47	-13.00	14.47	Horizontal
16387.4462	-38.45	-13.00	25.45	Horizontal
17999.0000	-36.66	-13.00	23.66	Horizontal
107.5069	-64.53	-13.00	51.53	Vertical
595.7323	-64.58	-13.00	51.58	Vertical
1699.7399	-62.01	-13.00	49.01	Vertical
2453.0906	-54.53	-13.00	41.53	Vertical
14697.8899	-41.74	-13.00	28.74	Vertical
17986.9996	-32.41	-13.00	19.41	Vertical

7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
41.1556	-64.34	-13.00	51.34	Horizontal
224.5917	-68.29	-13.00	55.29	Horizontal
1691.3383	-62.10	-13.00	49.10	Horizontal
2452.2905	-26.13	-13.00	13.13	Horizontal
16394.9465	-38.05	-13.00	25.05	Horizontal
17995.9999	-37.03	-13.00	24.03	Horizontal
110.0775	-64.73	-13.00	51.73	Vertical
673.0937	-63.83	-13.00	50.83	Vertical
1699.7399	-62.07	-13.00	49.07	Vertical
2453.4907	-53.96	-13.00	40.96	Vertical
14635.8879	-42.30	-13.00	29.30	Vertical
17981.4994	-32.22	-13.00	19.22	Vertical



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Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

8. Frequency Stability

8.1. Frequency Vs Voltage

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	-14.86	-0.008024	±2.5	PASS
Band II	QPSK	9262	VN	TN	-12.38	-0.006684	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.53	-0.005147	±2.5	PASS
Band II	QPSK	9400	VL	TN	-12.98	-0.006905	±2.5	PASS
Band II	QPSK	9400	VN	TN	-7.40	-0.003938	±2.5	PASS
Band II	QPSK	9400	VH	TN	-10.44	-0.005551	±2.5	PASS
Band II	QPSK	9538	VL	TN	-12.49	-0.006547	±2.5	PASS
Band II	QPSK	9538	VN	TN	-9.61	-0.005036	±2.5	PASS
Band II	QPSK	9538	VH	TN	-12.83	-0.006727	±2.5	PASS
Band II	16QAM	9262	VL	TN	-6.78	-0.003661	±2.5	PASS
Band II	16QAM	9262	VN	TN	-10.49	-0.005665	±2.5	PASS
Band II	16QAM	9262	VH	TN	1.13	0.000612	±2.5	PASS
Band II	16QAM	9400	VL	TN	-3.11	-0.001652	±2.5	PASS
Band II	16QAM	9400	VN	TN	-10.46	-0.005566	±2.5	PASS
Band II	16QAM	9400	VH	TN	-1.86	-0.000991	±2.5	PASS
Band II	16QAM	9538	VL	TN	2.19	0.001149	±2.5	PASS
Band II	16QAM	9538	VN	TN	14.04	0.007362	±2.5	PASS
Band II	16QAM	9538	VH	TN	-9.42	-0.004940	±2.5	PASS
Band IV	QPSK	1312	VL	TN	-12.75	-0.007447	±2.5	PASS
Band IV	QPSK	1312	VN	TN	-9.90	-0.005781	±2.5	PASS
Band IV	QPSK	1312	VH	TN	-8.02	-0.004682	±2.5	PASS
Band IV	QPSK	1413	VL	TN	-16.12	-0.009305	±2.5	PASS
Band IV	QPSK	1413	VN	TN	-14.08	-0.008124	±2.5	PASS
Band IV	QPSK	1413	VH	TN	-13.12	-0.007571	±2.5	PASS
Band IV	QPSK	1513	VL	TN	-11.90	-0.006791	±2.5	PASS
Band IV	QPSK	1513	VN	TN	-3.31	-0.001890	±2.5	PASS
Band IV	QPSK	1513	VH	TN	-12.85	-0.007334	±2.5	PASS
Band IV	16QAM	1312	VL	TN	-6.14	-0.003585	±2.5	PASS
Band IV	16QAM	1312	VN	TN	-13.77	-0.008041	±2.5	PASS
Band IV	16QAM	1312	VH	TN	2.27	0.001324	±2.5	PASS
Band IV	16QAM	1413	VL	TN	2.03	0.001174	±2.5	PASS
Band IV	16QAM	1413	VN	TN	2.64	0.001525	±2.5	PASS
Band IV	16QAM	1413	VH	TN	-3.72	-0.002146	±2.5	PASS
Band IV	16QAM	1513	VL	TN	-11.97	-0.006830	±2.5	PASS
Band IV	16QAM	1513	VN	TN	1.12	0.000641	±2.5	PASS
Band IV	16QAM	1513	VH	TN	-12.06	-0.006882	±2.5	PASS



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Band V	QPSK	4132	VL	TN	-6.73	-0.008144	±2.5	PASS
Band V	QPSK	4132	VN	TN	-3.80	-0.004596	±2.5	PASS
Band V	QPSK	4132	VH	TN	-3.20	-0.003877	±2.5	PASS
Band V	QPSK	4182	VL	TN	-3.48	-0.004156	±2.5	PASS
Band V	QPSK	4182	VN	TN	-5.72	-0.006841	±2.5	PASS
Band V	QPSK	4182	VH	TN	-6.17	-0.007371	±2.5	PASS
Band V	QPSK	4233	VL	TN	-9.30	-0.010983	±2.5	PASS
Band V	QPSK	4233	VN	TN	-11.08	-0.013087	±2.5	PASS
Band V	QPSK	4233	VH	TN	-9.31	-0.010992	±2.5	PASS
Band V	16QAM	4132	VL	TN	3.31	0.004009	±2.5	PASS
Band V	16QAM	4132	VN	TN	-13.34	-0.016145	±2.5	PASS
Band V	16QAM	4132	VH	TN	2.51	0.003035	±2.5	PASS
Band V	16QAM	4182	VL	TN	0.05	0.000061	±2.5	PASS
Band V	16QAM	4182	VN	TN	-9.44	-0.011288	±2.5	PASS
Band V	16QAM	4182	VH	TN	-12.27	-0.014671	±2.5	PASS
Band V	16QAM	4233	VL	TN	4.27	0.005042	±2.5	PASS
Band V	16QAM	4233	VN	TN	-3.27	-0.003862	±2.5	PASS
Band V	16QAM	4233	VH	TN	-12.98	-0.015332	±2.5	PASS

8.2. Frequency Vs Temperature

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	-13.01	-0.007024	±2.5	PASS
Band II	QPSK	9262	VN	-20	-13.10	-0.007074	±2.5	PASS
Band II	QPSK	9262	VN	-10	-13.83	-0.007464	±2.5	PASS
Band II	QPSK	9262	VN	0	-9.43	-0.005093	±2.5	PASS
Band II	QPSK	9262	VN	10	-12.33	-0.006657	±2.5	PASS
Band II	QPSK	9262	VN	20	-16.06	-0.008668	±2.5	PASS
Band II	QPSK	9262	VN	30	-12.01	-0.006483	±2.5	PASS
Band II	QPSK	9262	VN	40	-7.54	-0.004070	±2.5	PASS
Band II	QPSK	9262	VN	50	-16.34	-0.008819	±2.5	PASS
Band II	QPSK	9400	VN	-30	-9.21	-0.004900	±2.5	PASS
Band II	QPSK	9400	VN	-20	-4.13	-0.002195	±2.5	PASS
Band II	QPSK	9400	VN	-10	-10.81	-0.005749	±2.5	PASS
Band II	QPSK	9400	VN	0	-11.16	-0.005935	±2.5	PASS
Band II	QPSK	9400	VN	10	-13.45	-0.007153	±2.5	PASS
Band II	QPSK	9400	VN	20	-12.52	-0.006662	±2.5	PASS
Band II	QPSK	9400	VN	30	-8.85	-0.004706	±2.5	PASS
Band II	QPSK	9400	VN	40	-9.99	-0.005315	±2.5	PASS
Band II	QPSK	9400	VN	50	-6.97	-0.003706	±2.5	PASS
Band II	QPSK	9538	VN	-30	-14.76	-0.007735	±2.5	PASS
Band II	QPSK	9538	VN	-20	-10.59	-0.005553	±2.5	PASS
Band II	QPSK	9538	VN	-10	-10.21	-0.005351	±2.5	PASS
Band II	QPSK	9538	VN	0	-10.61	-0.005564	±2.5	PASS
Band II	QPSK	9538	VN	10	-14.19	-0.007439	±2.5	PASS
Band II	QPSK	9538	VN	20	-16.28	-0.008534	±2.5	PASS



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Band II	QPSK	9538	VN	30	-14.63	-0.007668	±2.5	PASS
Band II	QPSK	9538	VN	40	-13.03	-0.006832	±2.5	PASS
Band II	QPSK	9538	VN	50	-4.64	-0.002433	±2.5	PASS
Band II	16QAM	9262	VN	-30	12.84	0.006931	±2.5	PASS
Band II	16QAM	9262	VN	-20	5.61	0.003026	±2.5	PASS
Band II	16QAM	9262	VN	-10	-0.24	-0.000131	±2.5	PASS
Band II	16QAM	9262	VN	0	-10.31	-0.005566	±2.5	PASS
Band II	16QAM	9262	VN	10	-10.15	-0.005478	±2.5	PASS
Band II	16QAM	9262	VN	20	13.86	0.007481	±2.5	PASS
Band II	16QAM	9262	VN	30	-12.39	-0.006687	±2.5	PASS
Band II	16QAM	9262	VN	40	4.56	0.002459	±2.5	PASS
Band II	16QAM	9262	VN	50	-1.28	-0.000693	±2.5	PASS
Band II	16QAM	9400	VN	-30	2.37	0.001261	±2.5	PASS
Band II	16QAM	9400	VN	-20	1.18	0.000629	±2.5	PASS
Band II	16QAM	9400	VN	-10	9.46	0.005033	±2.5	PASS
Band II	16QAM	9400	VN	0	14.08	0.007490	±2.5	PASS
Band II	16QAM	9400	VN	10	8.08	0.004298	±2.5	PASS
Band II	16QAM	9400	VN	20	-1.36	-0.000725	±2.5	PASS
Band II	16QAM	9400	VN	30	-3.23	-0.001717	±2.5	PASS
Band II	16QAM	9400	VN	40	10.04	0.005342	±2.5	PASS
Band II	16QAM	9400	VN	50	-4.01	-0.002135	±2.5	PASS
Band II	16QAM	9538	VN	-30	11.59	0.006073	±2.5	PASS
Band II	16QAM	9538	VN	-20	-8.53	-0.004470	±2.5	PASS
Band II	16QAM	9538	VN	-10	-1.75	-0.000915	±2.5	PASS
Band II	16QAM	9538	VN	0	12.56	0.006585	±2.5	PASS
Band II	16QAM	9538	VN	10	-12.29	-0.006440	±2.5	PASS
Band II	16QAM	9538	VN	20	-7.17	-0.003761	±2.5	PASS
Band II	16QAM	9538	VN	30	-11.31	-0.005928	±2.5	PASS
Band II	16QAM	9538	VN	40	-1.09	-0.000570	±2.5	PASS
Band II	16QAM	9538	VN	50	-11.70	-0.006132	±2.5	PASS
Band IV	QPSK	1312	VN	-30	-10.84	-0.006332	±2.5	PASS
Band IV	QPSK	1312	VN	-20	-12.69	-0.007410	±2.5	PASS
Band IV	QPSK	1312	VN	-10	-10.68	-0.006236	±2.5	PASS
Band IV	QPSK	1312	VN	0	-12.59	-0.007351	±2.5	PASS
Band IV	QPSK	1312	VN	10	-11.93	-0.006967	±2.5	PASS
Band IV	QPSK	1312	VN	20	-9.03	-0.005275	±2.5	PASS
Band IV	QPSK	1312	VN	30	-8.40	-0.004904	±2.5	PASS
Band IV	QPSK	1312	VN	40	-11.67	-0.006817	±2.5	PASS
Band IV	QPSK	1312	VN	50	-10.36	-0.006052	±2.5	PASS
Band IV	QPSK	1413	VN	-30	-14.95	-0.008628	±2.5	PASS
Band IV	QPSK	1413	VN	-20	-12.29	-0.007092	±2.5	PASS
Band IV	QPSK	1413	VN	-10	-11.60	-0.006696	±2.5	PASS
Band IV	QPSK	1413	VN	0	-10.53	-0.006077	±2.5	PASS
Band IV	QPSK	1413	VN	10	-11.73	-0.006770	±2.5	PASS
Band IV	QPSK	1413	VN	20	-13.67	-0.007889	±2.5	PASS
Band IV	QPSK	1413	VN	30	-16.27	-0.009392	±2.5	PASS
Band IV	QPSK	1413	VN	40	-9.21	-0.005317	±2.5	PASS



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Band IV	QPSK	1413	VN	50	-14.18	-0.008186	±2.5	PASS
Band IV	QPSK	1513	VN	-30	-10.42	-0.005946	±2.5	PASS
Band IV	QPSK	1513	VN	-20	-7.91	-0.004514	±2.5	PASS
Band IV	QPSK	1513	VN	-10	-12.26	-0.006995	±2.5	PASS
Band IV	QPSK	1513	VN	0	-8.60	-0.004905	±2.5	PASS
Band IV	QPSK	1513	VN	10	-10.41	-0.005942	±2.5	PASS
Band IV	QPSK	1513	VN	20	-7.70	-0.004395	±2.5	PASS
Band IV	QPSK	1513	VN	30	-8.92	-0.005089	±2.5	PASS
Band IV	QPSK	1513	VN	40	-6.48	-0.003697	±2.5	PASS
Band IV	QPSK	1513	VN	50	-9.56	-0.005456	±2.5	PASS
Band IV	16QAM	1312	VN	-30	-10.89	-0.006357	±2.5	PASS
Band IV	16QAM	1312	VN	-20	-10.16	-0.005933	±2.5	PASS
Band IV	16QAM	1312	VN	-10	5.65	0.003299	±2.5	PASS
Band IV	16QAM	1312	VN	0	5.17	0.003017	±2.5	PASS
Band IV	16QAM	1312	VN	10	-6.00	-0.003504	±2.5	PASS
Band IV	16QAM	1312	VN	20	10.83	0.006325	±2.5	PASS
Band IV	16QAM	1312	VN	30	-1.43	-0.000836	±2.5	PASS
Band IV	16QAM	1312	VN	40	7.75	0.004524	±2.5	PASS
Band IV	16QAM	1312	VN	50	0.57	0.000332	±2.5	PASS
Band IV	16QAM	1413	VN	-30	2.80	0.001618	±2.5	PASS
Band IV	16QAM	1413	VN	-20	-13.68	-0.007894	±2.5	PASS
Band IV	16QAM	1413	VN	-10	-13.84	-0.007987	±2.5	PASS
Band IV	16QAM	1413	VN	0	13.83	0.007980	±2.5	PASS
Band IV	16QAM	1413	VN	10	-7.74	-0.004467	±2.5	PASS
Band IV	16QAM	1413	VN	20	0.45	0.000261	±2.5	PASS
Band IV	16QAM	1413	VN	30	11.14	0.006429	±2.5	PASS
Band IV	16QAM	1413	VN	40	2.11	0.001216	±2.5	PASS
Band IV	16QAM	1413	VN	50	8.12	0.004684	±2.5	PASS
Band IV	16QAM	1513	VN	-30	13.64	0.007785	±2.5	PASS
Band IV	16QAM	1513	VN	-20	-10.89	-0.006212	±2.5	PASS
Band IV	16QAM	1513	VN	-10	10.34	0.005900	±2.5	PASS
Band IV	16QAM	1513	VN	0	-8.19	-0.004672	±2.5	PASS
Band IV	16QAM	1513	VN	10	-12.53	-0.007151	±2.5	PASS
Band IV	16QAM	1513	VN	20	1.42	0.000808	±2.5	PASS
Band IV	16QAM	1513	VN	30	9.45	0.005391	±2.5	PASS
Band IV	16QAM	1513	VN	40	9.89	0.005644	±2.5	PASS
Band IV	16QAM	1513	VN	50	4.71	0.002689	±2.5	PASS
Band V	QPSK	4132	VN	-30	-5.11	-0.006188	±2.5	PASS
Band V	QPSK	4132	VN	-20	-8.69	-0.010516	±2.5	PASS
Band V	QPSK	4132	VN	-10	-5.94	-0.007184	±2.5	PASS
Band V	QPSK	4132	VN	0	-10.16	-0.012299	±2.5	PASS
Band V	QPSK	4132	VN	10	-7.45	-0.009019	±2.5	PASS
Band V	QPSK	4132	VN	20	-4.13	-0.004994	±2.5	PASS
Band V	QPSK	4132	VN	30	-10.99	-0.013303	±2.5	PASS
Band V	QPSK	4132	VN	40	-8.48	-0.010256	±2.5	PASS
Band V	QPSK	4132	VN	50	-8.53	-0.010317	±2.5	PASS
Band V	QPSK	4182	VN	-30	-10.40	-0.012434	±2.5	PASS



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Band V	QPSK	4182	VN	-20	-7.90	-0.009450	±2.5	PASS
Band V	QPSK	4182	VN	-10	-11.62	-0.013888	±2.5	PASS
Band V	QPSK	4182	VN	0	-7.72	-0.009227	±2.5	PASS
Band V	QPSK	4182	VN	10	-8.75	-0.010459	±2.5	PASS
Band V	QPSK	4182	VN	20	-9.61	-0.011493	±2.5	PASS
Band V	QPSK	4182	VN	30	-11.52	-0.013768	±2.5	PASS
Band V	QPSK	4182	VN	40	-9.46	-0.011305	±2.5	PASS
Band V	QPSK	4182	VN	50	-8.75	-0.010467	±2.5	PASS
Band V	QPSK	4233	VN	-30	-3.88	-0.004588	±2.5	PASS
Band V	QPSK	4233	VN	-20	-8.34	-0.009851	±2.5	PASS
Band V	QPSK	4233	VN	-10	-9.93	-0.011735	±2.5	PASS
Band V	QPSK	4233	VN	0	-7.25	-0.008558	±2.5	PASS
Band V	QPSK	4233	VN	10	-5.64	-0.006657	±2.5	PASS
Band V	QPSK	4233	VN	20	-11.05	-0.013053	±2.5	PASS
Band V	QPSK	4233	VN	30	-6.01	-0.007097	±2.5	PASS
Band V	QPSK	4233	VN	40	-11.70	-0.013822	±2.5	PASS
Band V	QPSK	4233	VN	50	-8.81	-0.010409	±2.5	PASS
Band V	16QAM	4132	VN	-30	0.57	0.000685	±2.5	PASS
Band V	16QAM	4132	VN	-20	5.29	0.006397	±2.5	PASS
Band V	16QAM	4132	VN	-10	3.73	0.004516	±2.5	PASS
Band V	16QAM	4132	VN	0	13.80	0.016694	±2.5	PASS
Band V	16QAM	4132	VN	10	-11.05	-0.013369	±2.5	PASS
Band V	16QAM	4132	VN	20	-7.23	-0.008752	±2.5	PASS
Band V	16QAM	4132	VN	30	-0.75	-0.000910	±2.5	PASS
Band V	16QAM	4132	VN	40	-8.29	-0.010030	±2.5	PASS
Band V	16QAM	4132	VN	50	-4.35	-0.005263	±2.5	PASS
Band V	16QAM	4182	VN	-30	-14.91	-0.017825	±2.5	PASS
Band V	16QAM	4182	VN	-20	13.90	0.016620	±2.5	PASS
Band V	16QAM	4182	VN	-10	-13.00	-0.015548	±2.5	PASS
Band V	16QAM	4182	VN	0	3.91	0.004674	±2.5	PASS
Band V	16QAM	4182	VN	10	9.41	0.011255	±2.5	PASS
Band V	16QAM	4182	VN	20	-0.60	-0.000721	±2.5	PASS
Band V	16QAM	4182	VN	30	-14.68	-0.017553	±2.5	PASS
Band V	16QAM	4182	VN	40	-2.85	-0.003403	±2.5	PASS
Band V	16QAM	4182	VN	50	-12.86	-0.015377	±2.5	PASS
Band V	16QAM	4233	VN	-30	4.29	0.005066	±2.5	PASS
Band V	16QAM	4233	VN	-20	-2.75	-0.003254	±2.5	PASS
Band V	16QAM	4233	VN	-10	5.01	0.005915	±2.5	PASS
Band V	16QAM	4233	VN	0	-0.76	-0.000898	±2.5	PASS
Band V	16QAM	4233	VN	10	-8.91	-0.010521	±2.5	PASS
Band V	16QAM	4233	VN	20	12.22	0.014433	±2.5	PASS
Band V	16QAM	4233	VN	30	3.21	0.003793	±2.5	PASS
Band V	16QAM	4233	VN	40	2.13	0.002515	±2.5	PASS
Band V	16QAM	4233	VN	50	-3.30	-0.003897	±2.5	PASS

The End



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