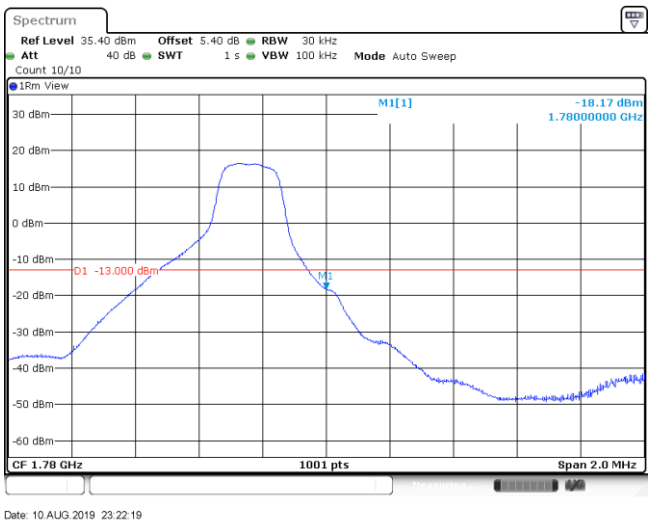
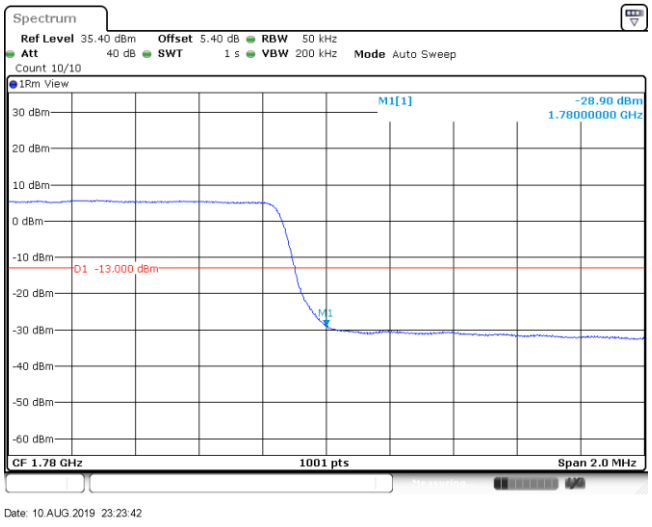
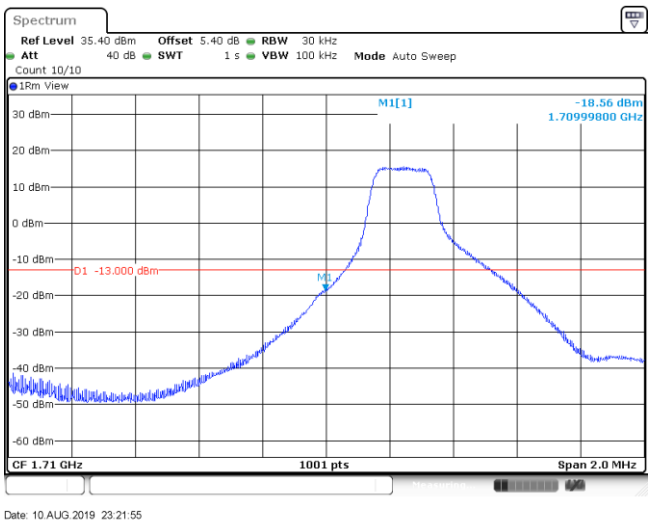


Band66_3MHz_QPSK_132657_15RB#0



Band66_3MHz_16QAM_131987_1RB#0



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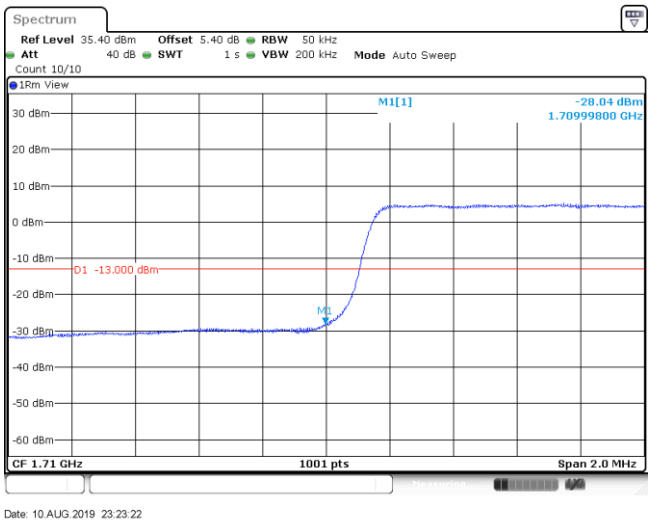
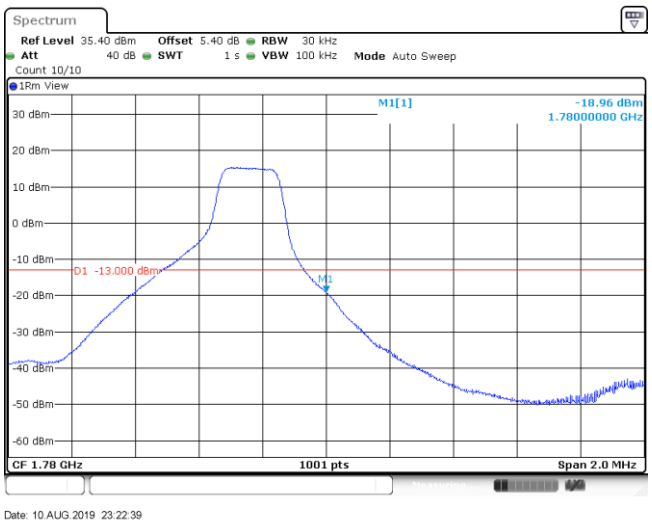


Band66_3MHz_16QAM_132657_1RB#14



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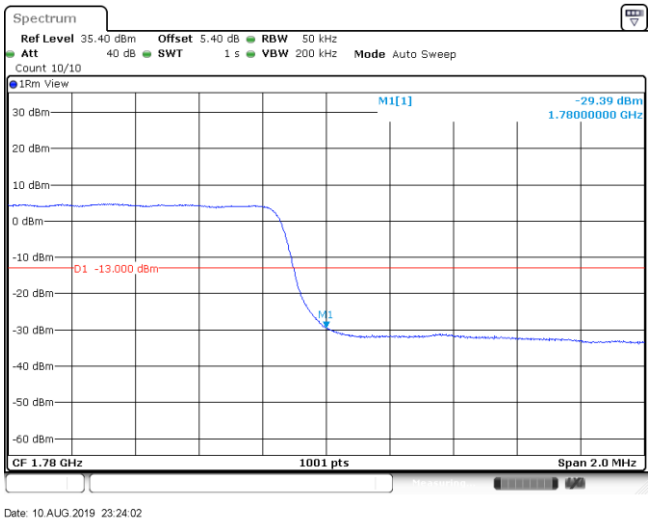
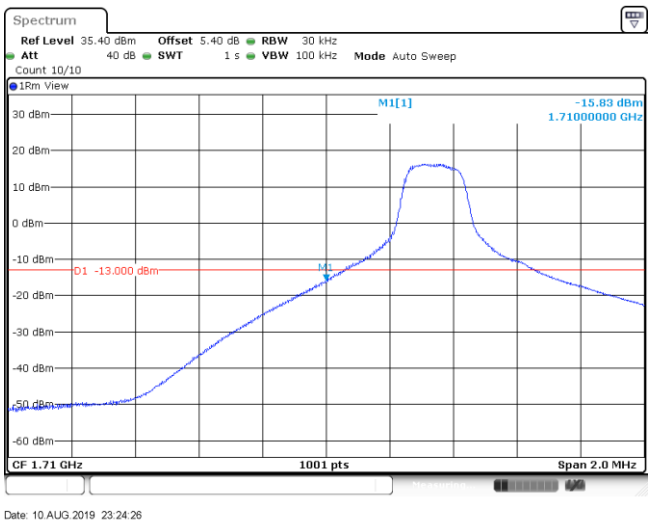


Band66_5MHz_QPSK_131997_1RB#0



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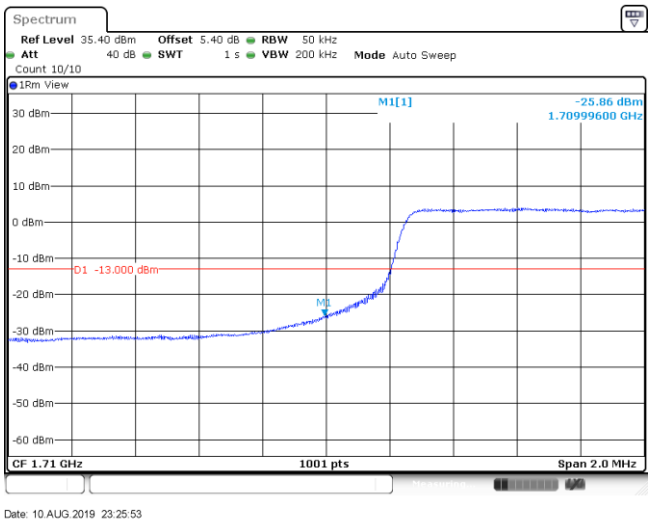

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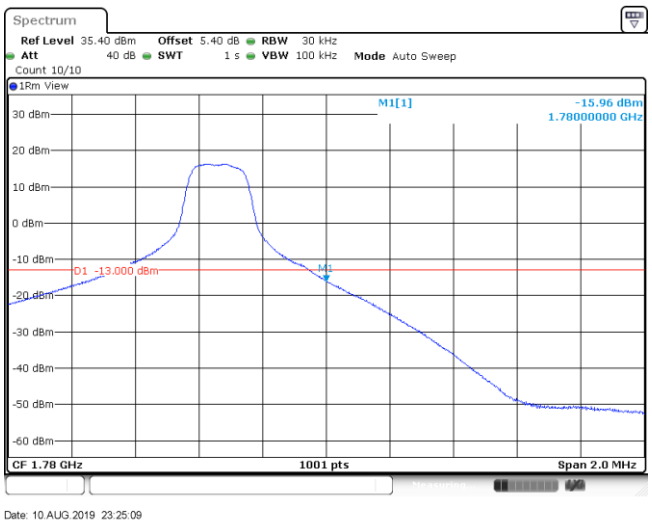

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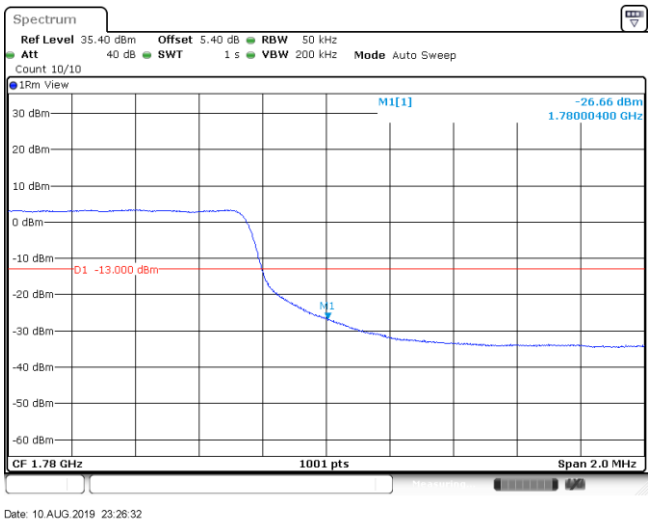

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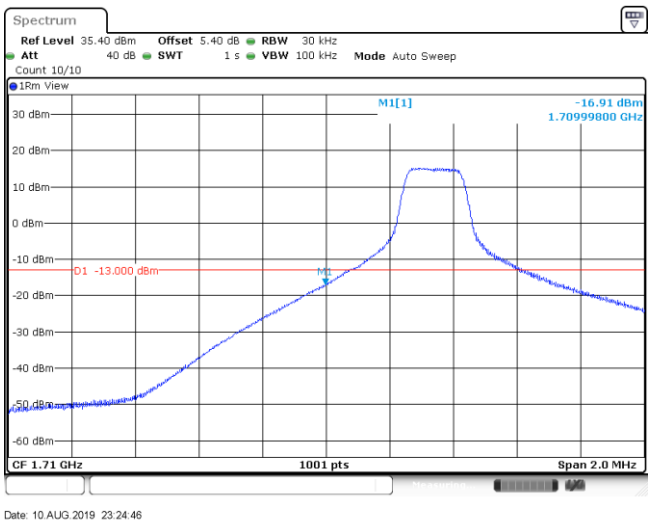

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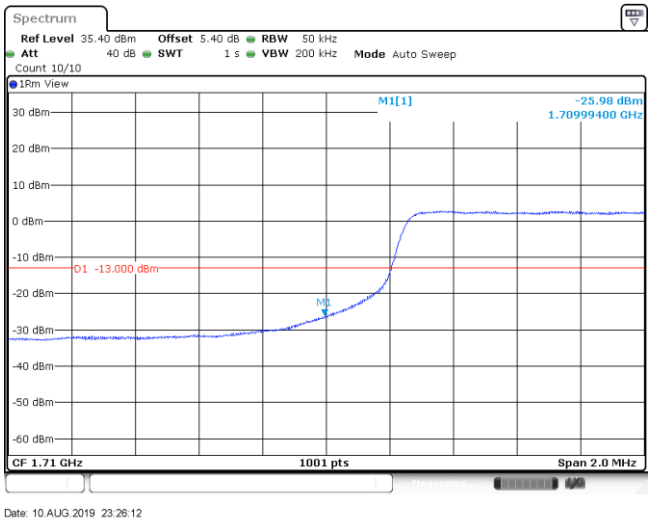

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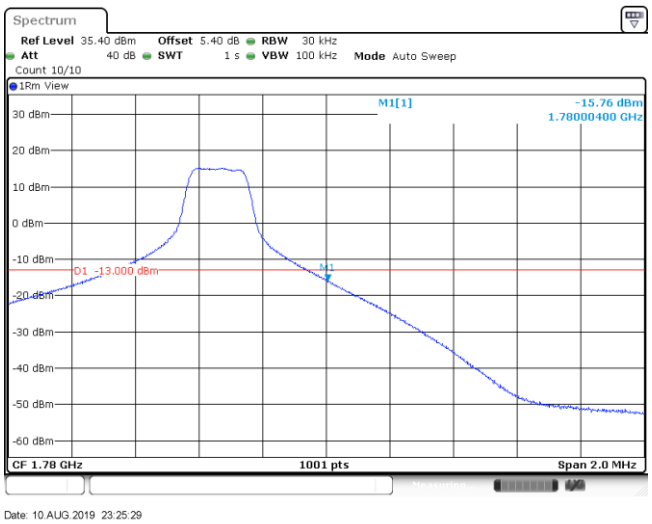

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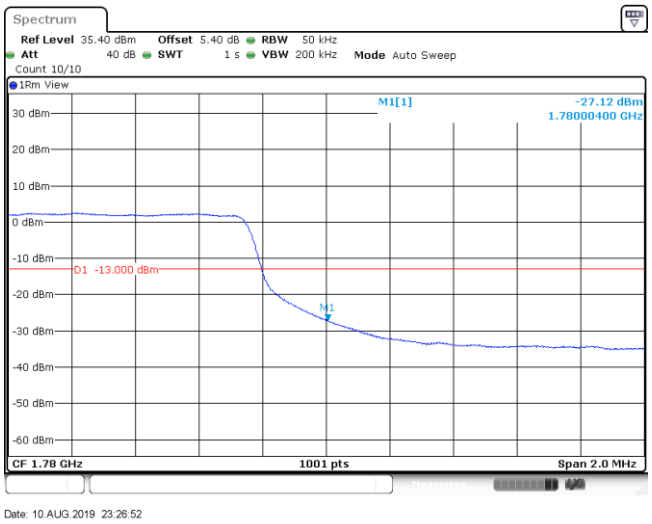
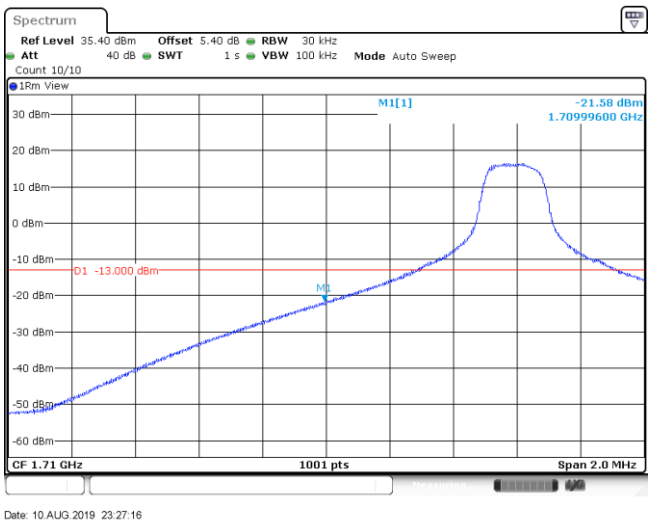


Band66_10MHz_QPSK_132022_1RB#0



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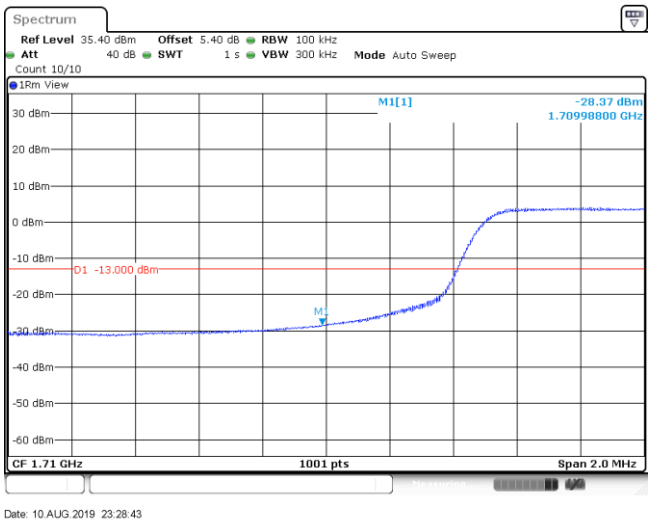

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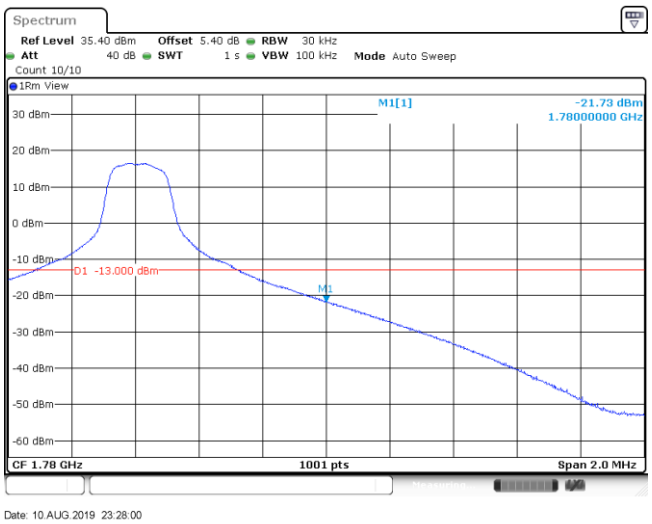

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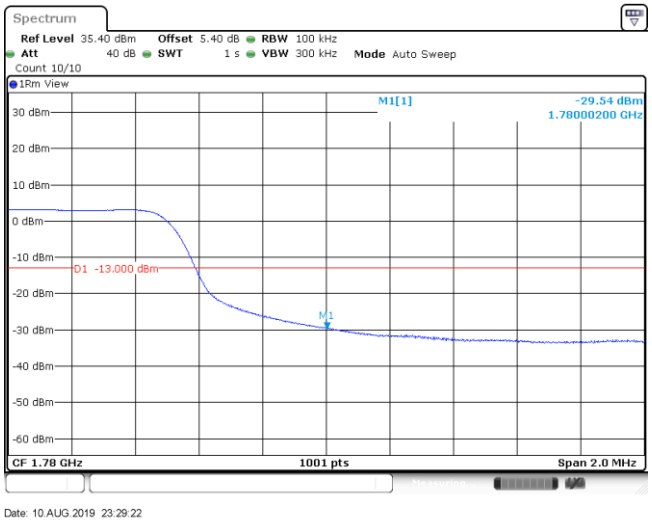
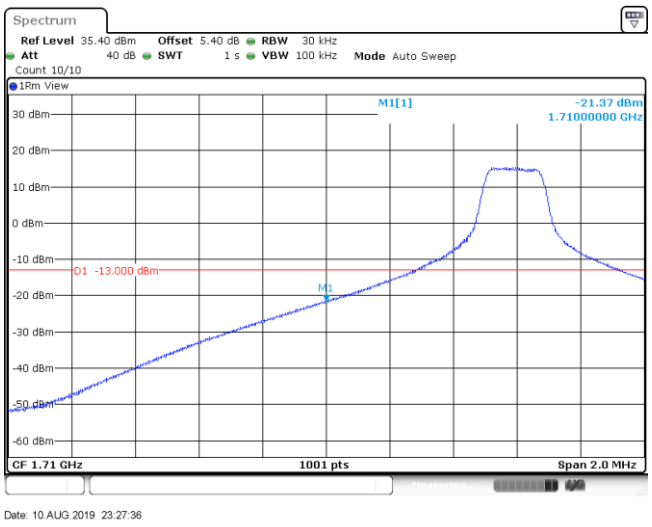


Band66_10MHz_16QAM_132022_1RB#0



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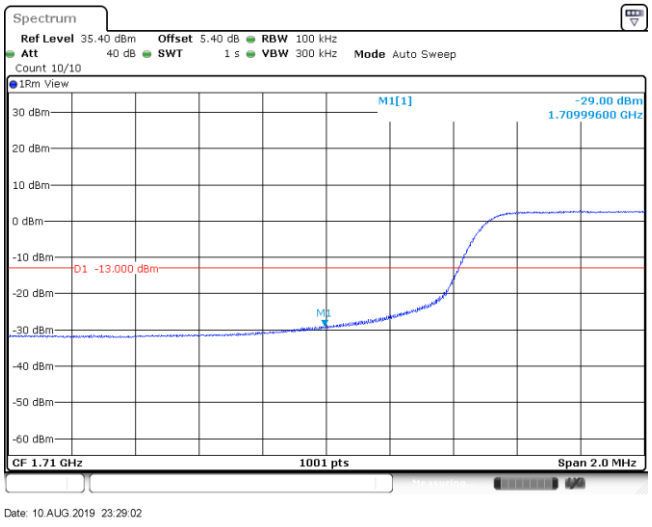

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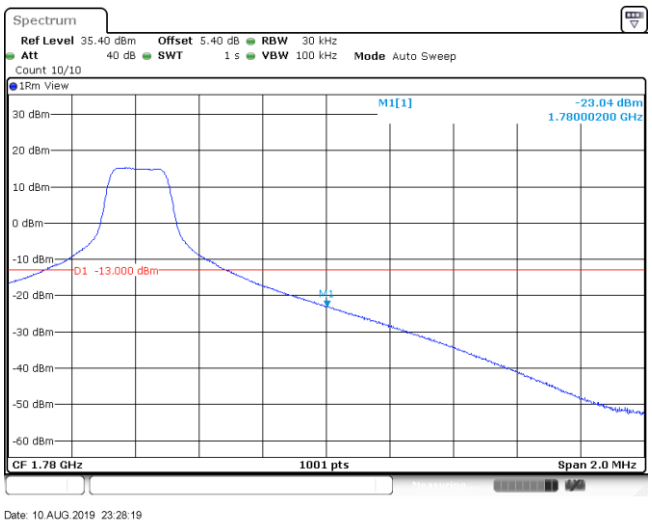

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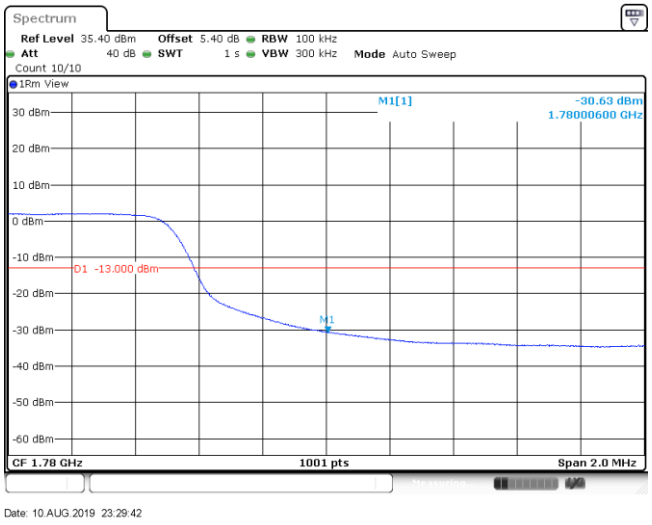

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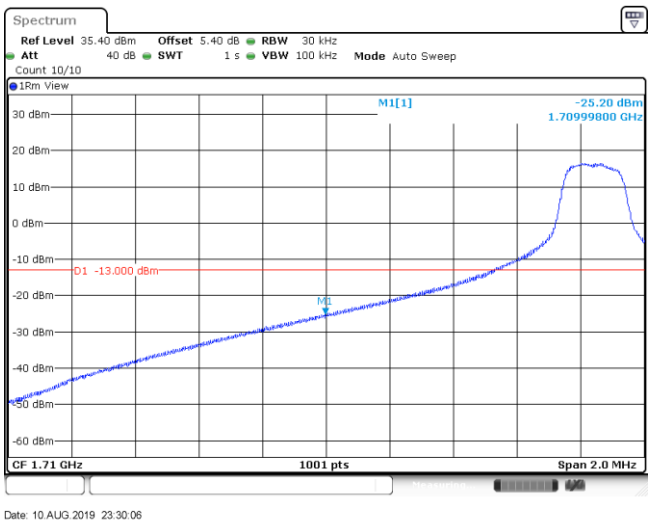

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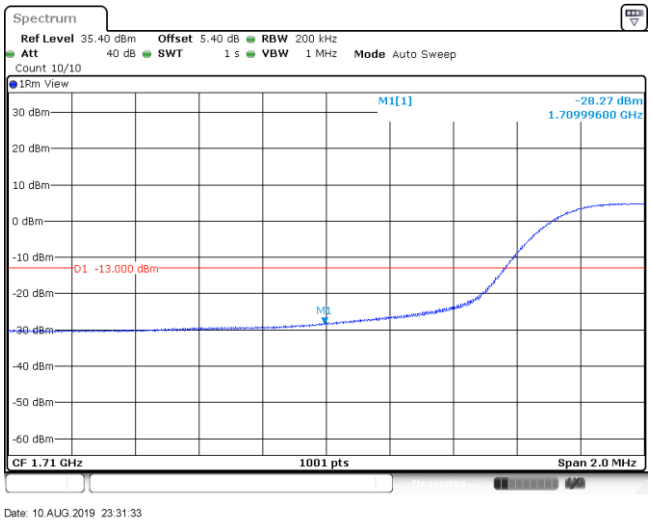

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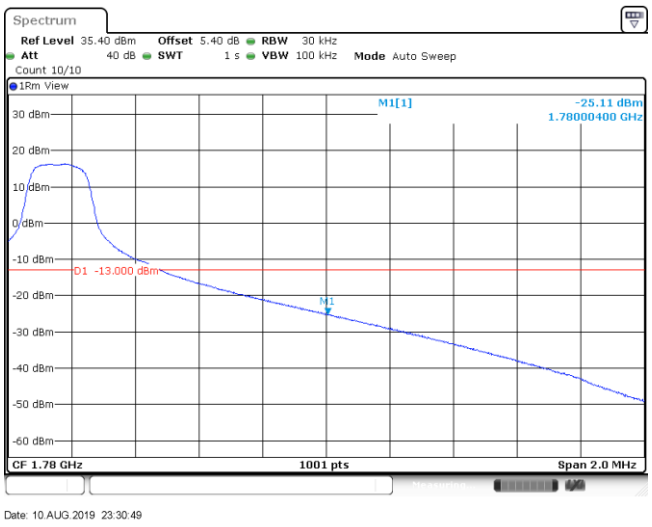
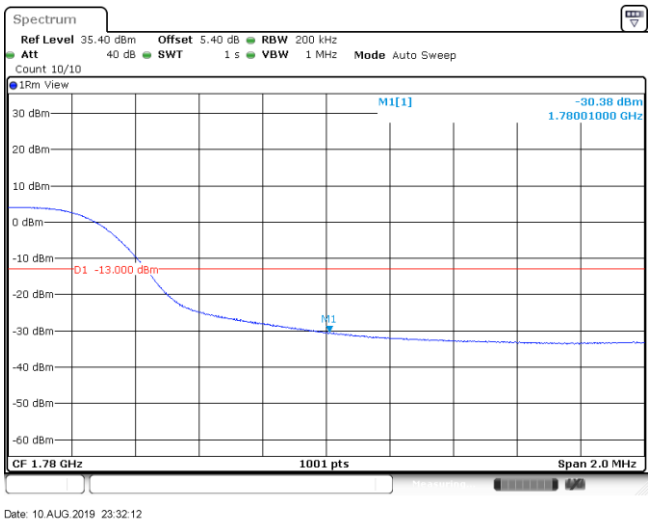
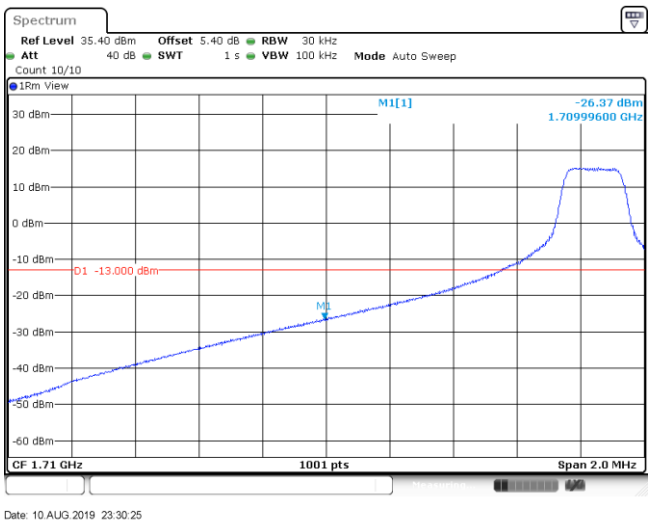


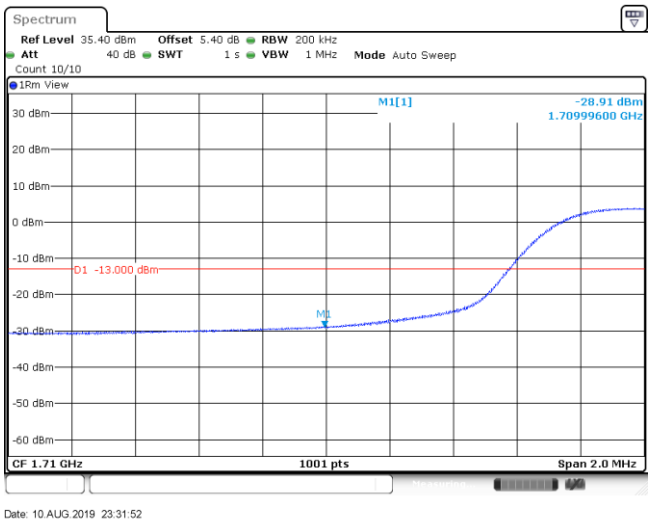
Band66_15MHz_QPSK_132597_75RB#0



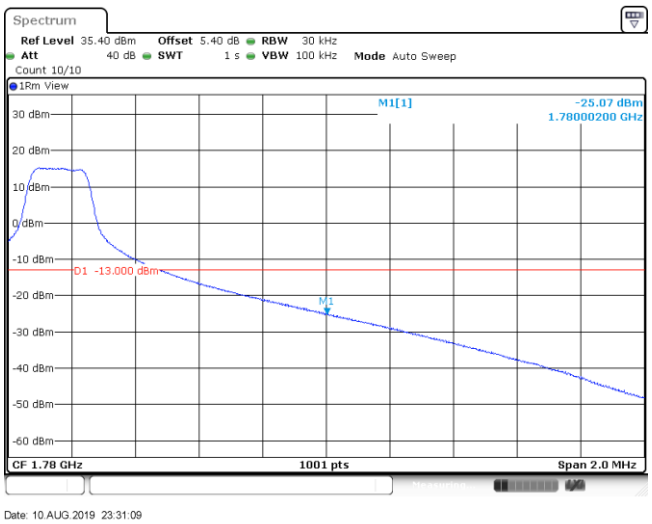
Band66_15MHz_16QAM_132047_1RB#0



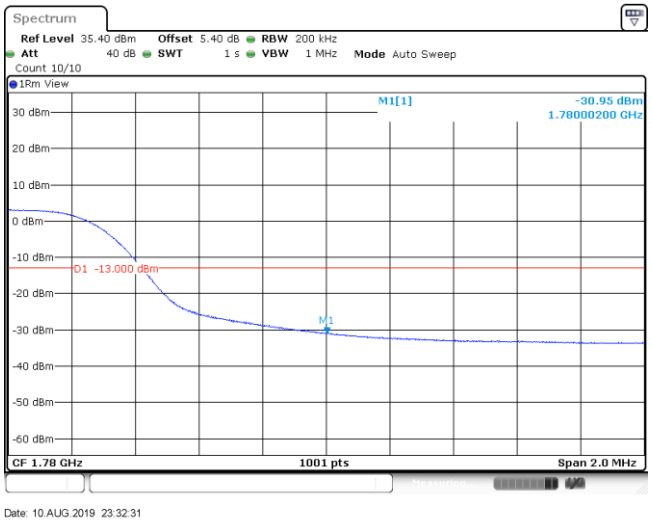
Band66_15MHz_16QAM_132047_75RB#0



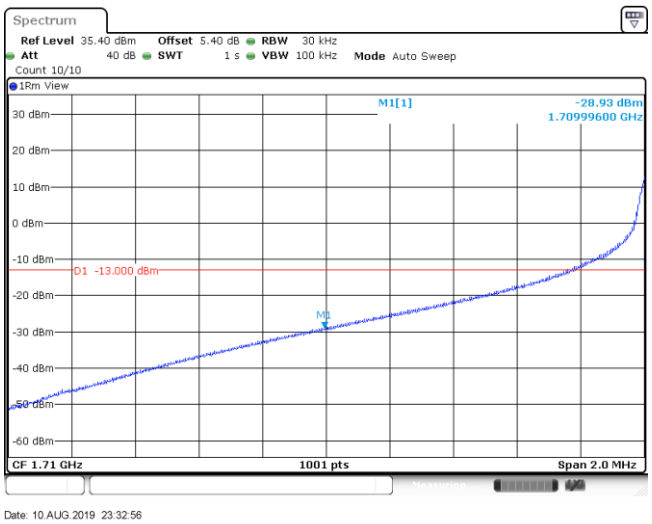
Band66_15MHz_16QAM_132597_1RB#74



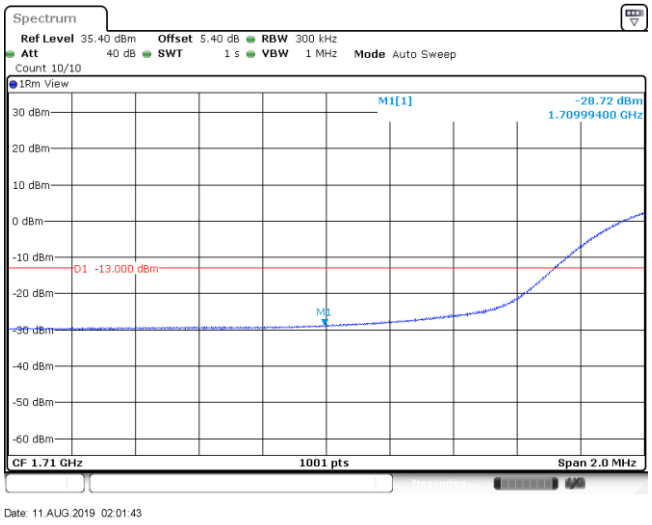
Band66_15MHz_16QAM_132597_75RB#0



Band66_20MHz_QPSK_132072_1RB#0



Band66_20MHz_QPSK_132072_100RB#0



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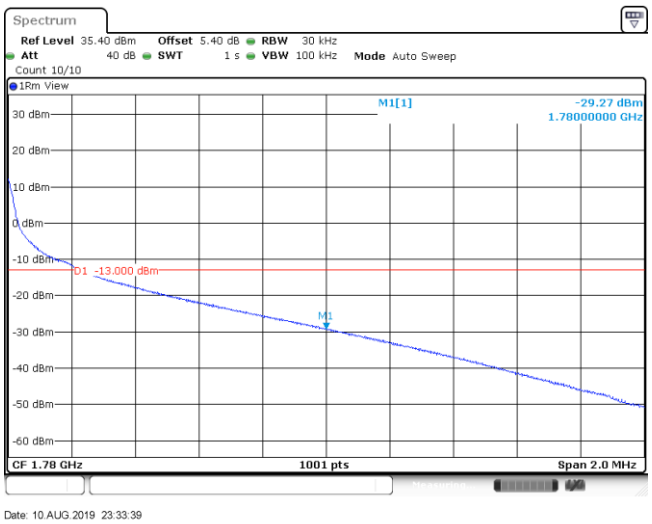
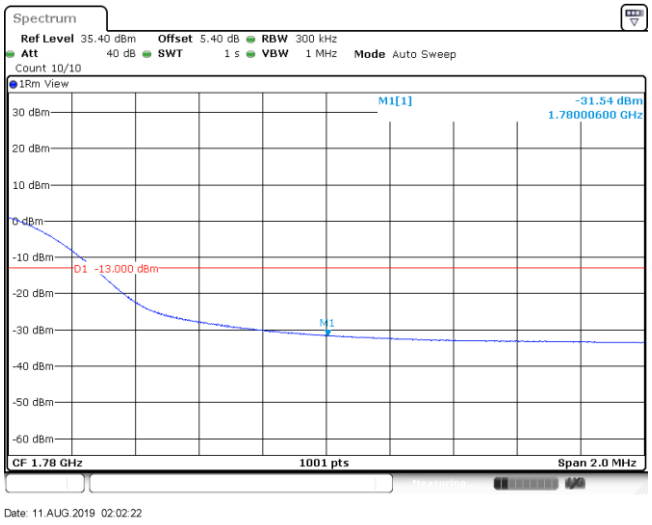
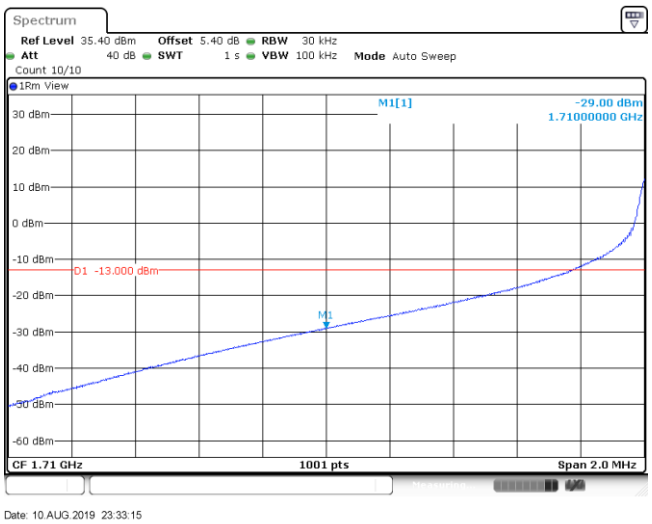


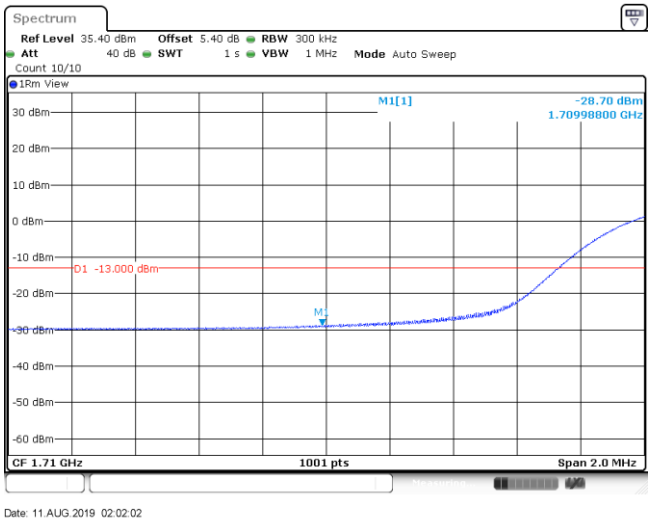
Band66_20MHz_QPSK_132572_100RB#0



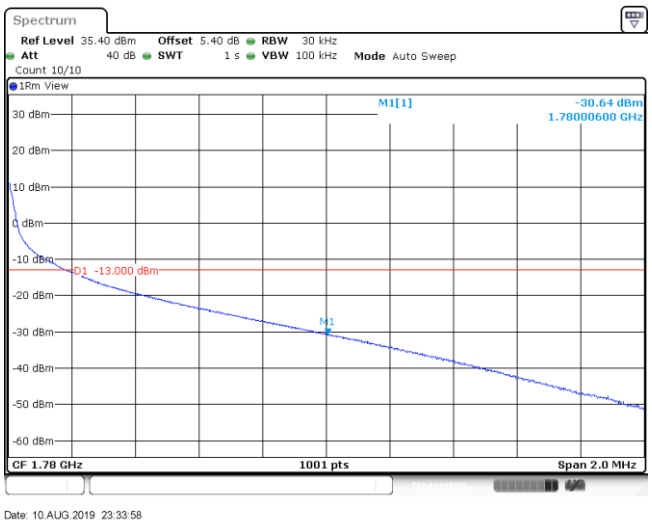
Band66_20MHz_16QAM_132072_1RB#0



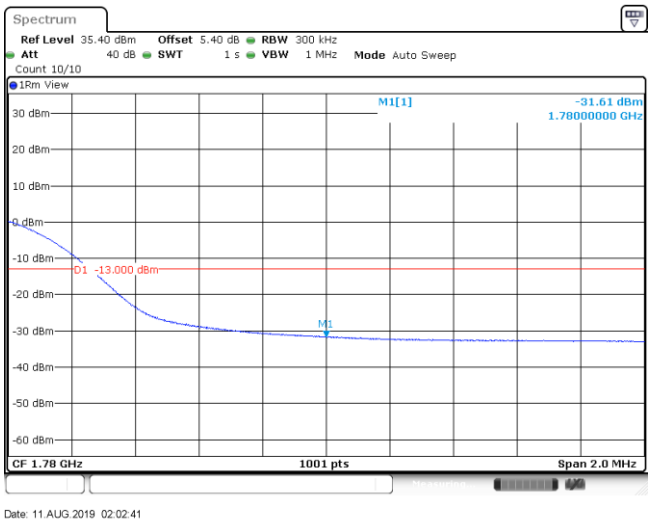
Band66_20MHz_16QAM_132072_100RB#0



Band66_20MHz_16QAM_132572_1RB#99



Band66_20MHz_16QAM_132572_100RB#0



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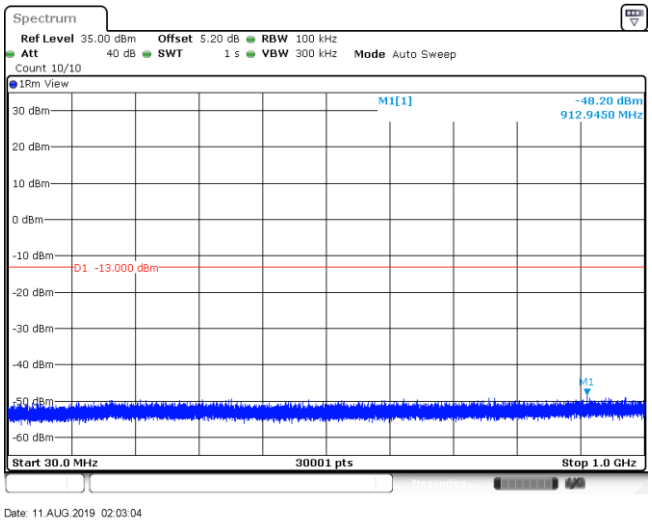
6. Spurious Emission at Antenna Terminal

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.

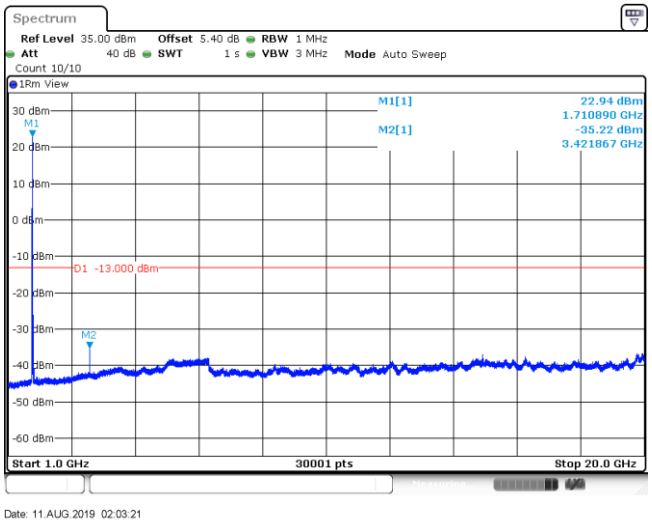
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

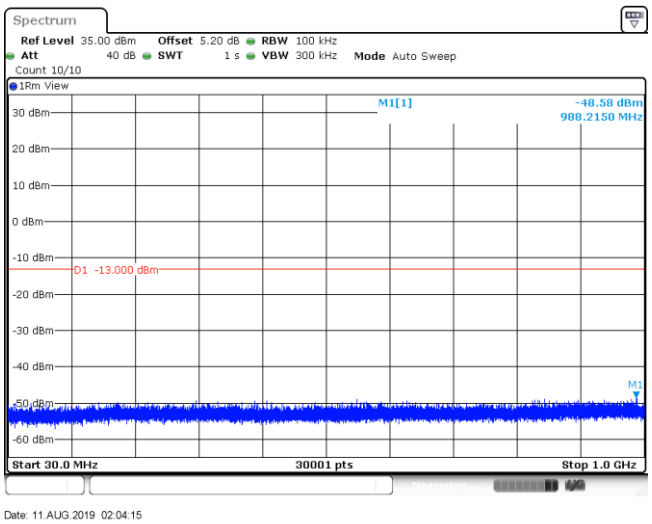
Band66_20MHz_QPSK_132072_1RB#0



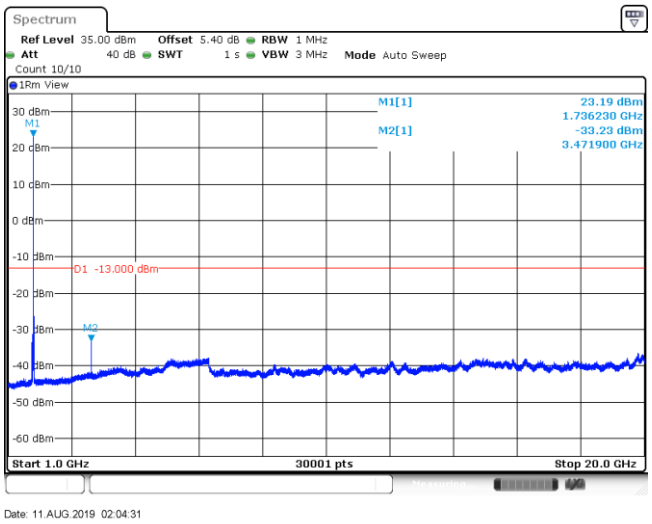
Band66_20MHz_QPSK_132072_1RB#0



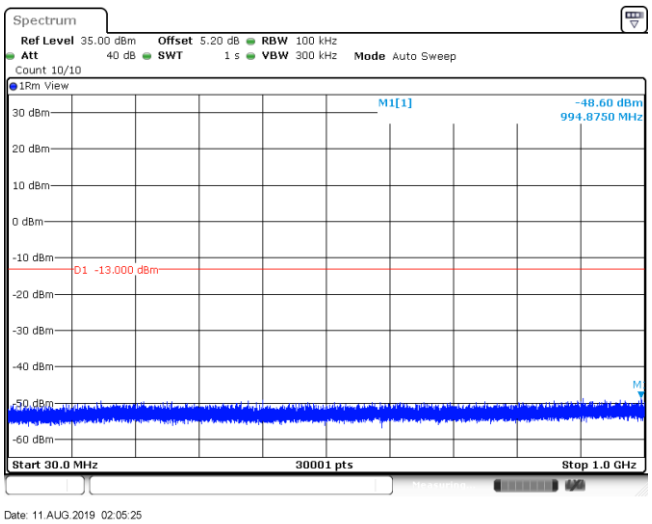
Band66_20MHz_QPSK_132322_1RB#0



Band66_20MHz_QPSK_132322_1RB#0



Band66_20MHz_QPSK_132572_1RB#0



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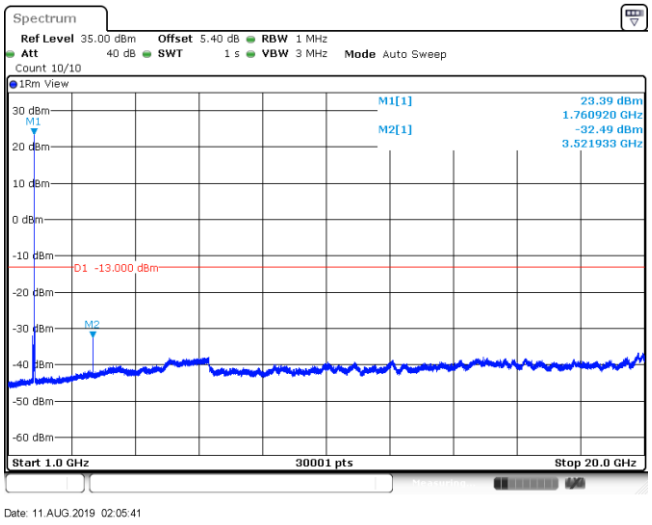
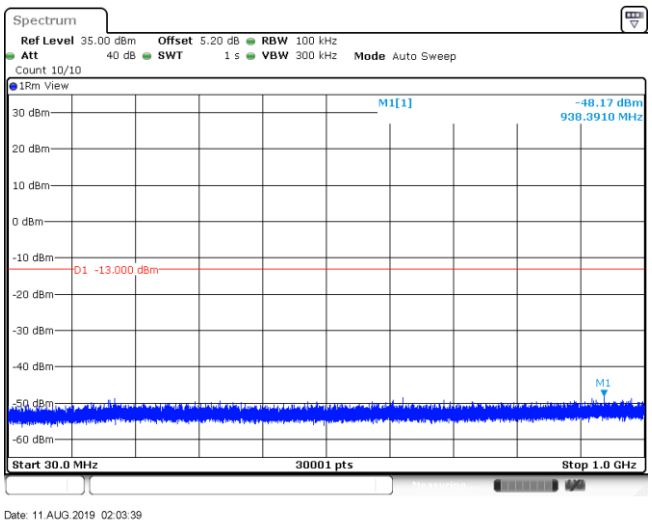
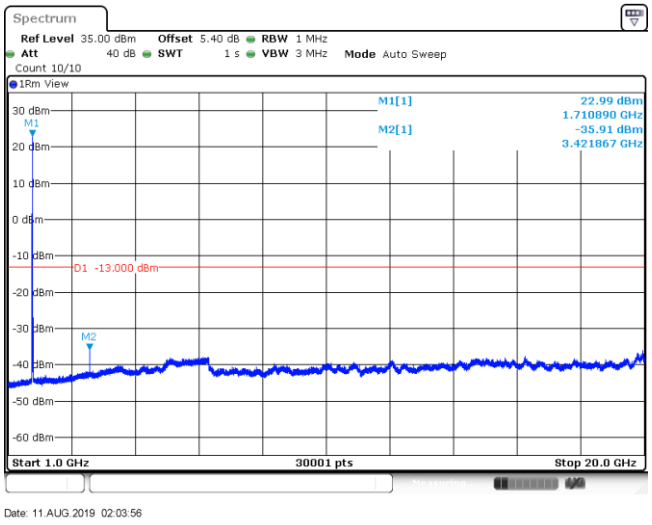


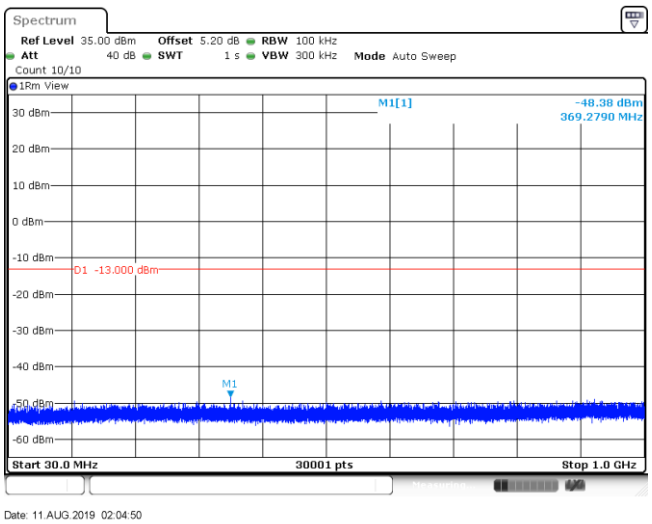
Band66_20MHz_16QAM_132072_1RB#0



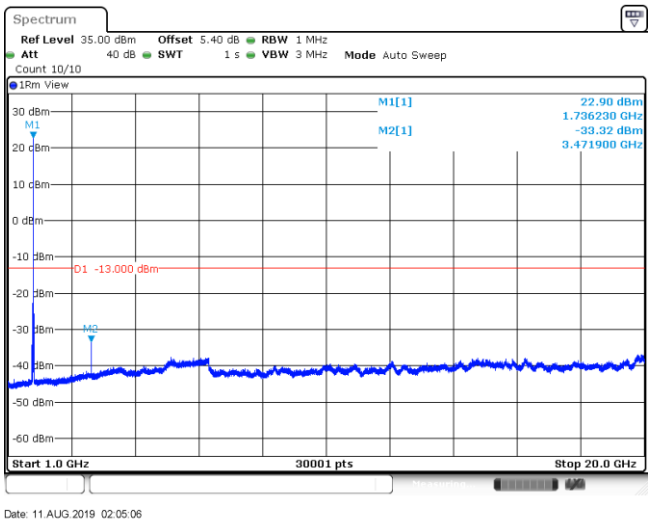
Band66_20MHz_16QAM_132072_1RB#0



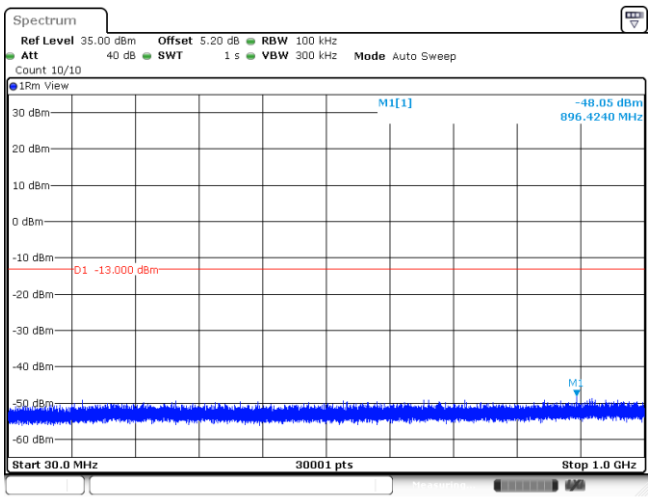
Band66_20MHz_16QAM_132322_1RB#0



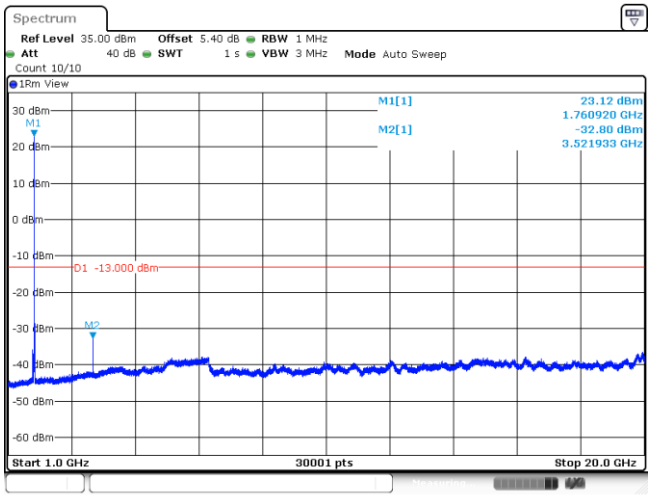
Band66_20MHz_16QAM_132322_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



Band66_20MHz_16QAM_132572_1RB#0



7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 66

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-76.18	-13.00	63.18	Vertical
119.0020	-75.88	-13.00	62.88	Vertical
221.1481	-82.43	-13.00	69.43	Vertical
3472.0157	-51.35	-13.00	38.35	Vertical
5208.0736	-53.44	-13.00	40.44	Vertical
17984.4995	-31.96	-13.00	18.96	Vertical
35.7718	-67.89	-13.00	54.89	Horizontal
100.0860	-82.76	-13.00	69.76	Horizontal
411.8111	-79.13	-13.00	66.13	Horizontal
2702.3405	-36.22	-13.00	23.22	Horizontal
3472.0157	-46.12	-13.00	33.12	Horizontal
16396.4465	-38.03	-13.00	25.03	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-74.73	-13.00	61.73	Vertical
109.6895	-71.38	-13.00	58.38	Vertical
462.2051	-82.85	-13.00	69.85	Vertical
2703.5407	-37.55	-13.00	24.55	Vertical
3422.5141	-48.08	-13.00	35.08	Vertical
17981.4994	-32.44	-13.00	19.44	Vertical
35.6748	-62.61	-13.00	49.61	Horizontal
94.7992	-82.24	-13.00	69.24	Horizontal
412.2961	-77.65	-13.00	64.65	Horizontal
2701.1402	-36.35	-13.00	23.35	Horizontal
3422.5141	-43.71	-13.00	30.71	Horizontal
16402.9468	-37.99	-13.00	24.99	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-73.87	-13.00	60.87	Vertical
119.0020	-76.98	-13.00	63.98	Vertical
411.0351	-84.85	-13.00	71.85	Vertical
3522.0174	-44.89	-13.00	31.89	Vertical
8608.6870	-51.06	-13.00	38.06	Vertical
17988.4996	-32.20	-13.00	19.20	Vertical
35.5778	-64.59	-13.00	51.59	Horizontal
73.1187	-77.67	-13.00	64.67	Horizontal
231.0911	-80.97	-13.00	67.97	Horizontal
3522.5174	-38.76	-13.00	25.76	Horizontal
10724.2575	-48.06	-13.00	35.06	Horizontal
17992.4998	-36.79	-13.00	23.79	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 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.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	VL	NT	-3.00	-0.001744	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VN	NT	-3.60	-0.002093	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	VH	NT	-2.30	-0.001337	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-6.80	-0.003897	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	0.10	0.000057	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-4.90	-0.002808	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VL	NT	-11.30	-0.006384	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VN	NT	-9.70	-0.005480	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	VH	NT	-4.10	-0.002316	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VL	NT	-5.70	-0.003314	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VN	NT	-0.50	-0.000291	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	VH	NT	-3.10	-0.001802	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VL	NT	-0.70	-0.000401	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VN	NT	-4.70	-0.002693	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	VH	NT	-5.10	-0.002923	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VL	NT	-2.90	-0.001638	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VN	NT	-5.40	-0.003051	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	VH	NT	-5.70	-0.003220	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	NV	-30	-3.50	-0.002035	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	-20	-2.00	-0.001163	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	0	-12.00	-0.006977	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	10	-5.00	-0.002907	±2.5	PASS
Band66	20MHz	QPSK	132072	100RB#0	NV	20	-5.70	-0.003314	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-1.70	-0.000974	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-0.40	-0.000229	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	2.80	0.001605	±2.5	PASS

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Band66	20MHz	QPSK	132322	100RB#0	NV	10	-8.00	-0.004585	±2.5	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	-4.20	-0.002407	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-30	-7.70	-0.004350	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	-20	0.50	0.000282	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	0	-4.90	-0.002768	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	10	-1.30	-0.000734	±2.5	PASS
Band66	20MHz	QPSK	132572	100RB#0	NV	20	-2.10	-0.001186	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-30	-2.20	-0.001279	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	-20	0.60	0.000349	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	0	-2.20	-0.001279	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	10	0.30	0.000174	±2.5	PASS
Band66	20MHz	16QAM	132072	100RB#0	NV	20	-11.10	-0.006453	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-30	-0.30	-0.000172	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	-20	-8.40	-0.004814	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	0	-6.50	-0.003725	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	10	-11.90	-0.006819	±2.5	PASS
Band66	20MHz	16QAM	132322	100RB#0	NV	20	2.60	0.001490	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-30	-3.60	-0.002034	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	-20	-6.80	-0.003842	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	0	-8.50	-0.004802	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	10	0.10	0.000056	±2.5	PASS
Band66	20MHz	16QAM	132572	100RB#0	NV	20	-2.20	-0.001243	±2.5	PASS

The End

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