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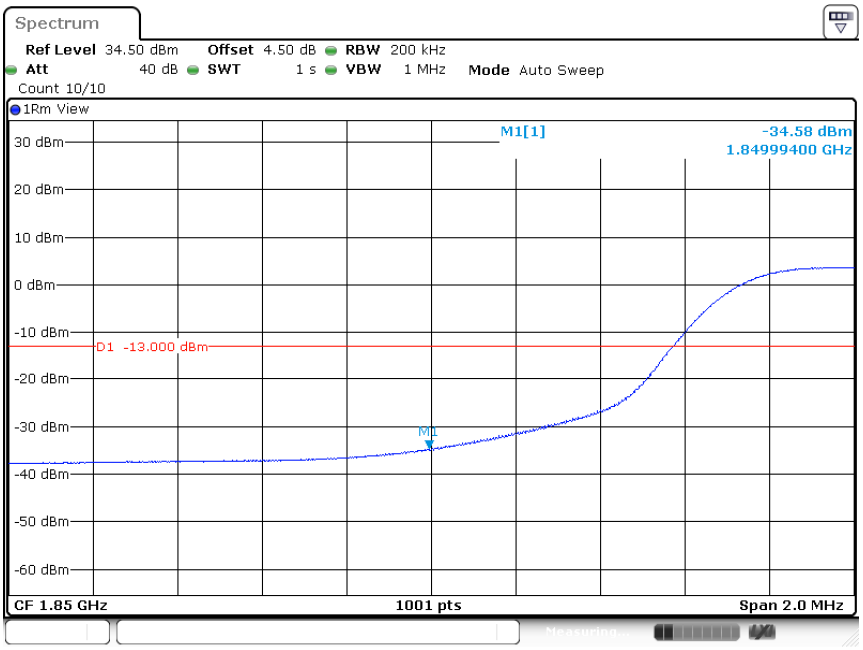

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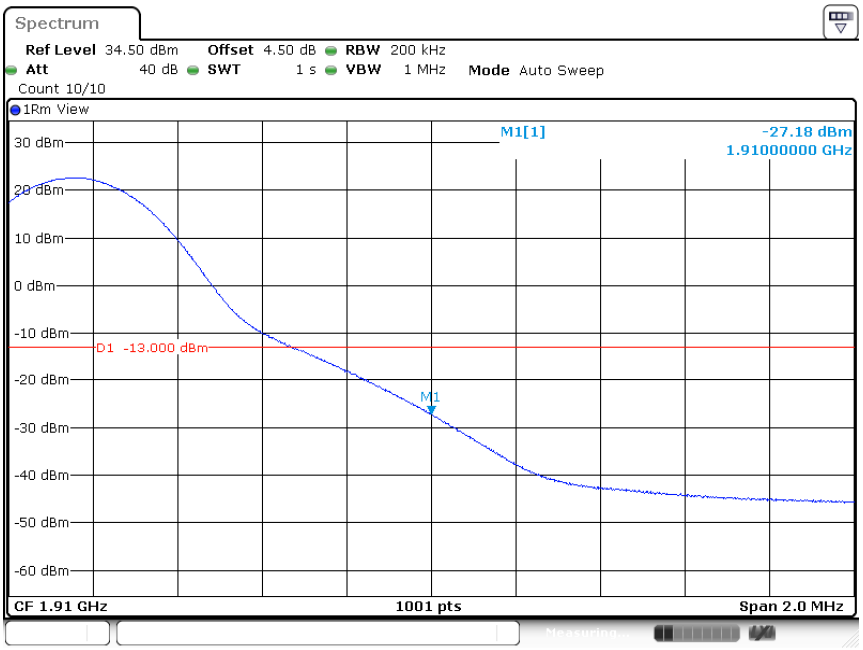
Band2-15MHz-QPSK-19125-1RB#74



Date: 3.SEP.2020 21:50:50

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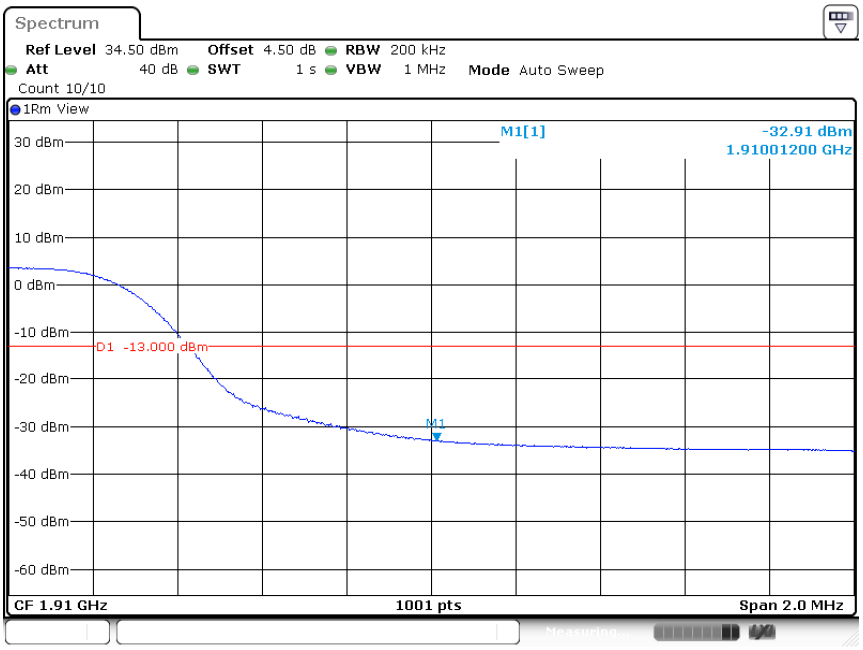
Band2-15MHz-QPSK-19125-75RB#0



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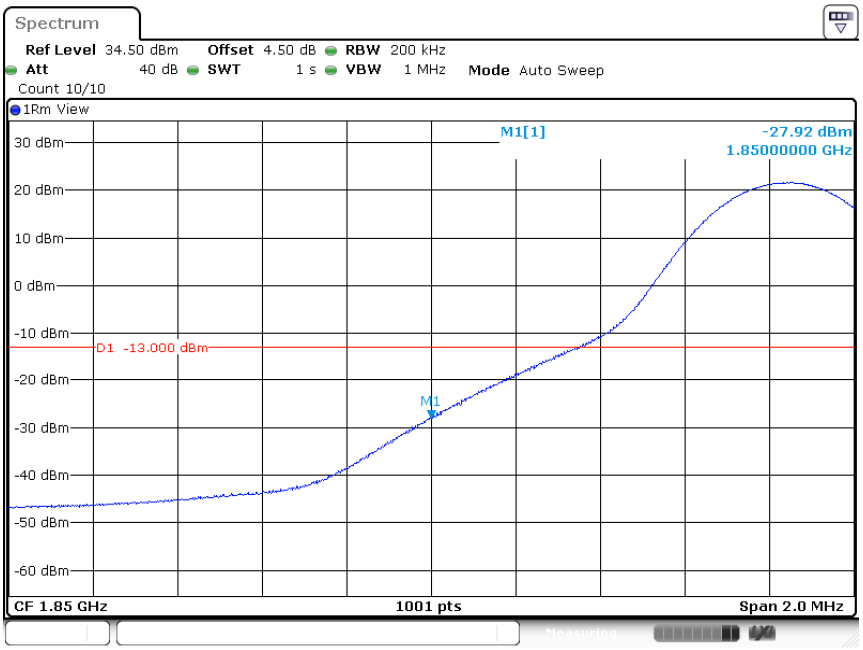
Band2-15MHz-64QAM-18675-1RB#0



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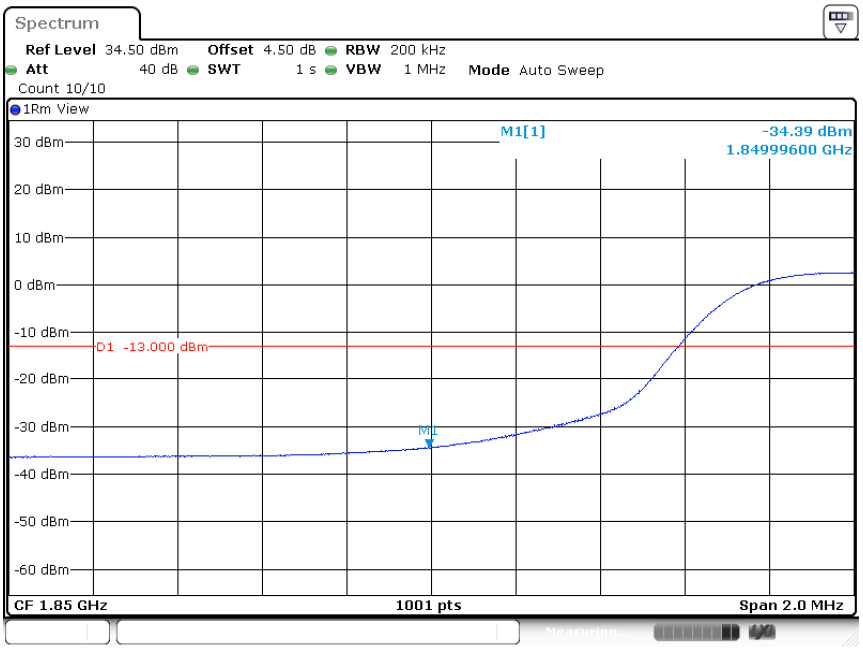
Band2-15MHz-64QAM-18675-75RB#0



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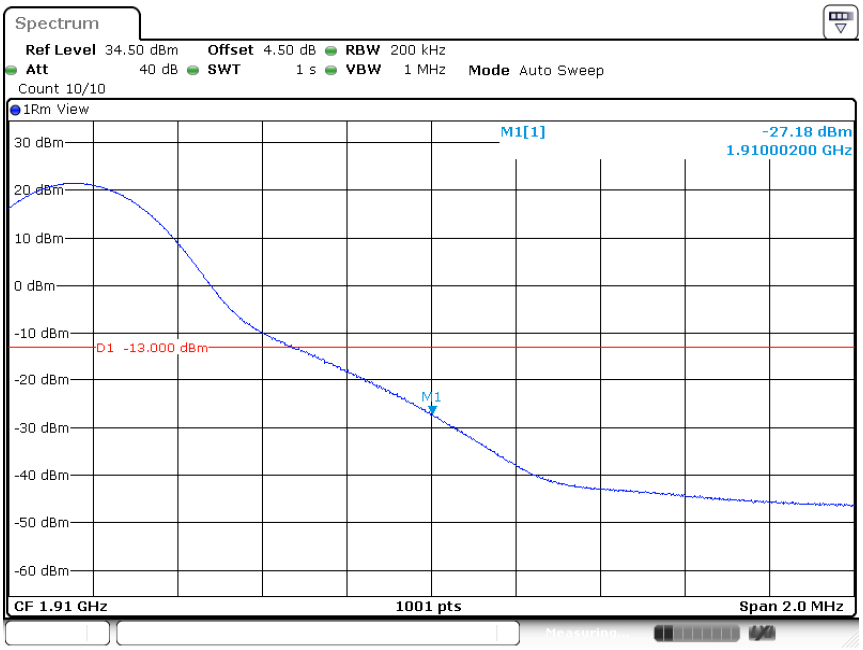
Band2-15MHz-64QAM-19125-1RB#74



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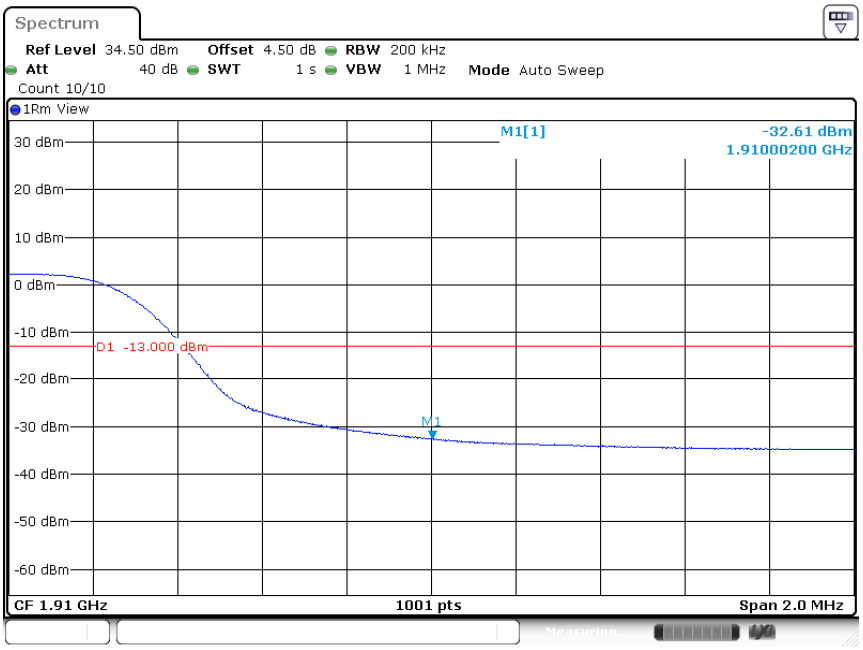
Band2-15MHz-64QAM-19125-75RB#0



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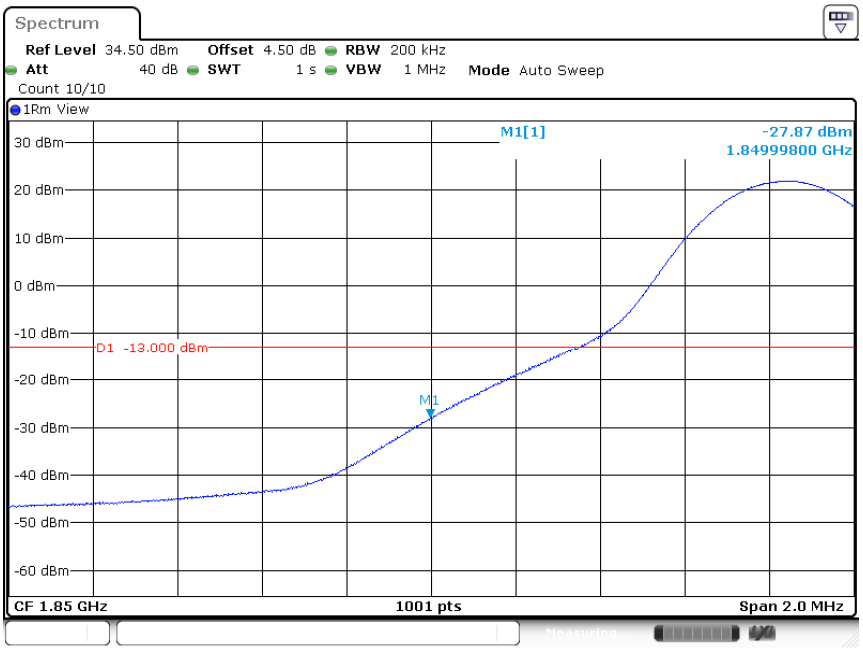
Band2-15MHz-16QAM-18675-1RB#0



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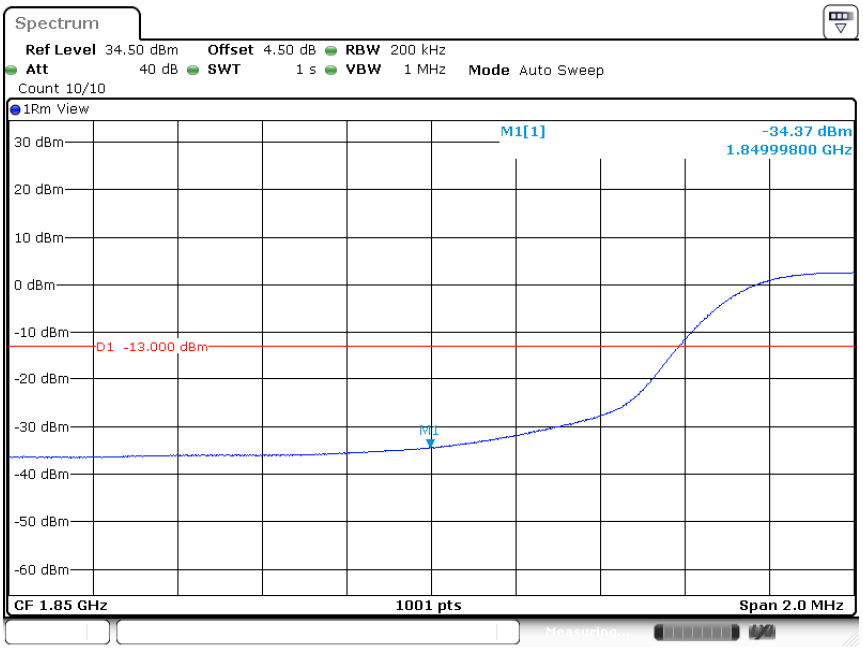
Band2-15MHz-16QAM-18675-75RB#0



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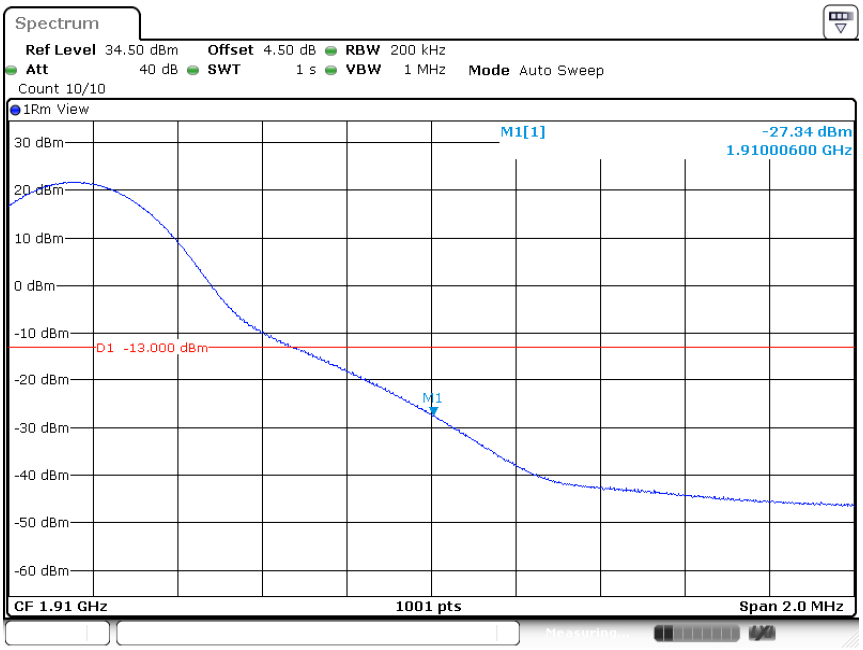
Band2-15MHz-16QAM-19125-1RB#74



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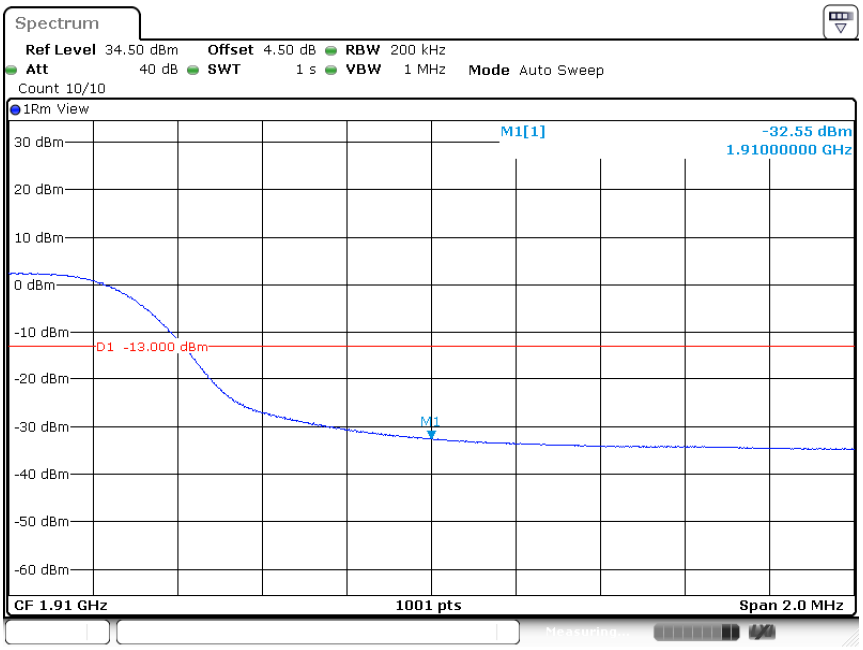
Band2-15MHz-16QAM-19125-75RB#0



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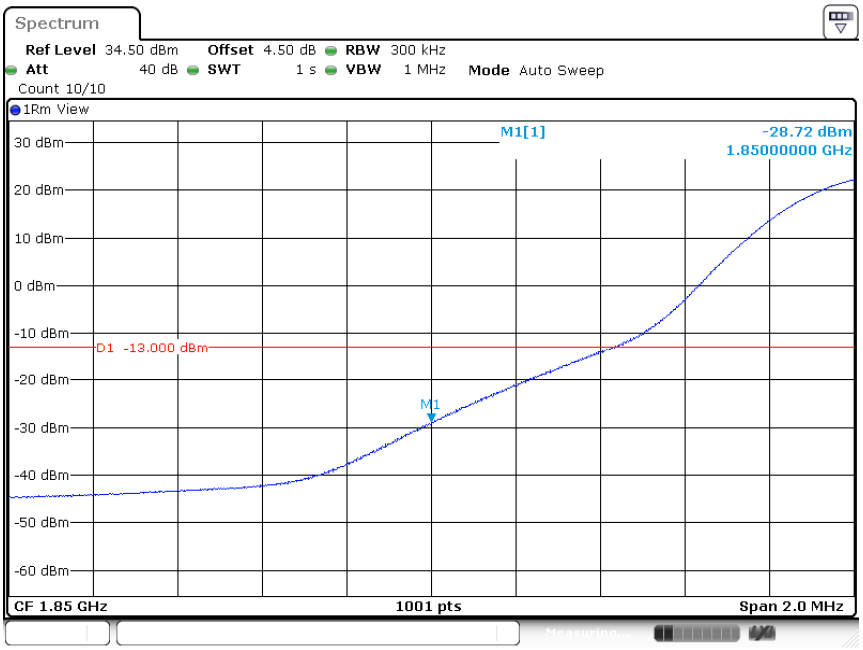
Band2-20MHz-QPSK-18700-1RB#0



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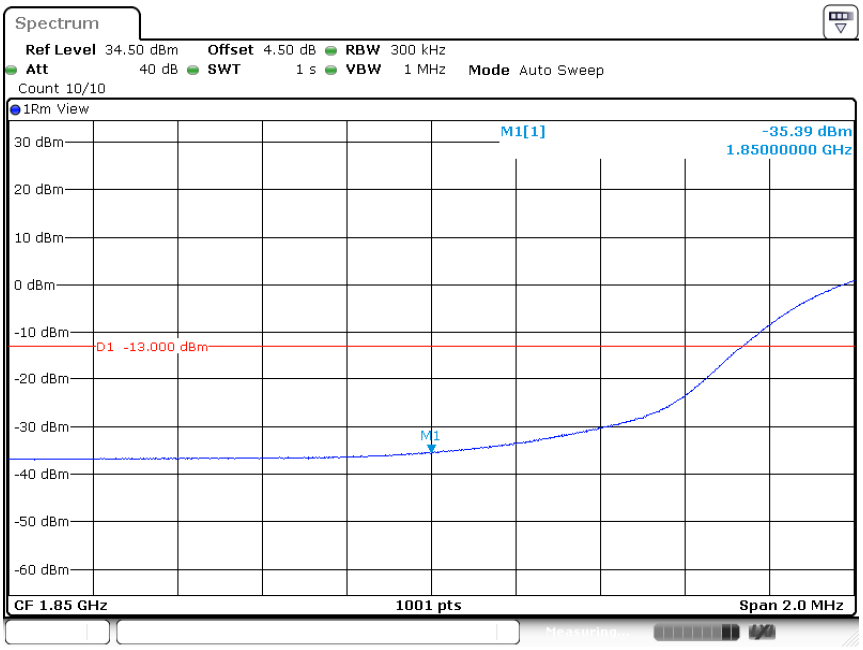
Band2-20MHz-QPSK-18700-100RB#0



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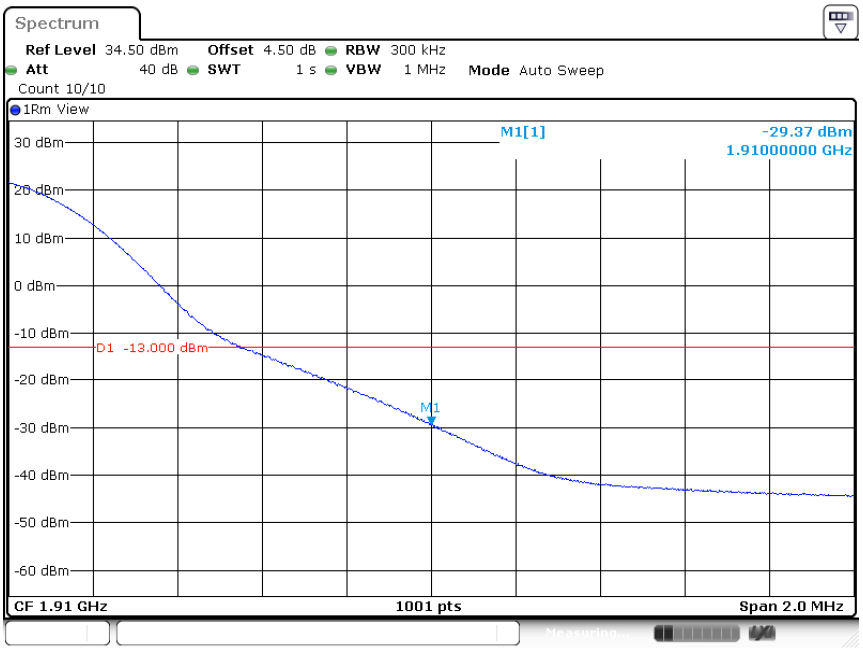

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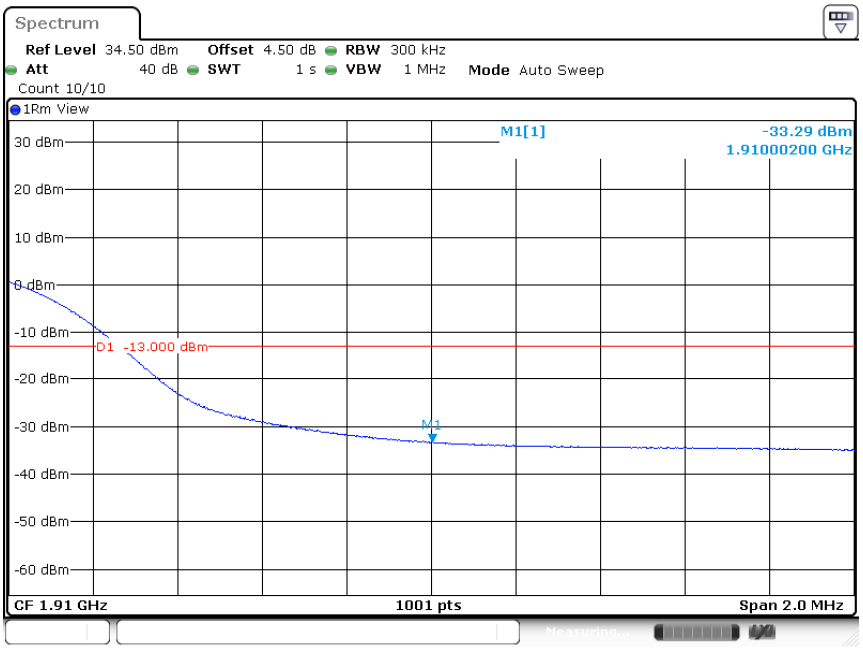

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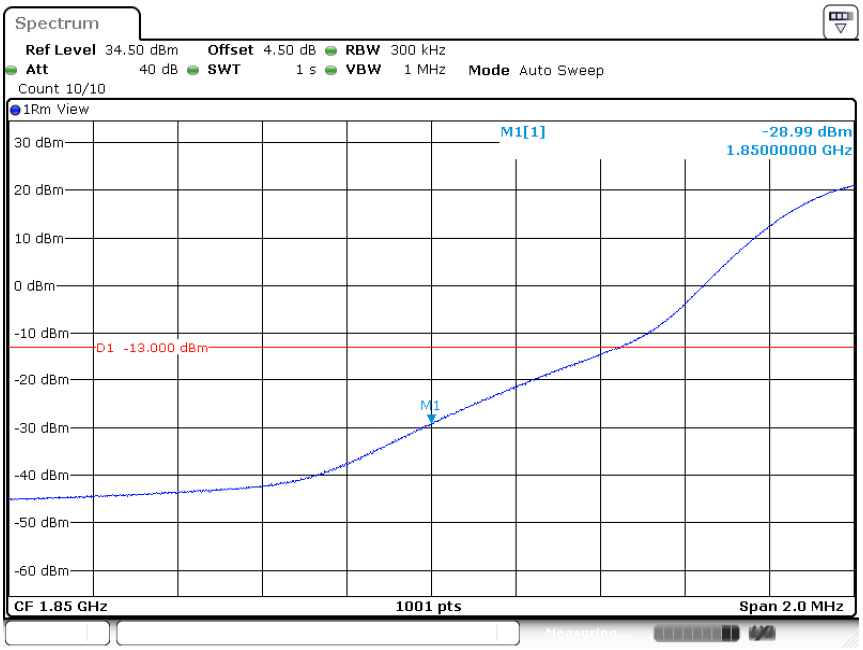
Band2-20MHz-64QAM-18700-1RB#0



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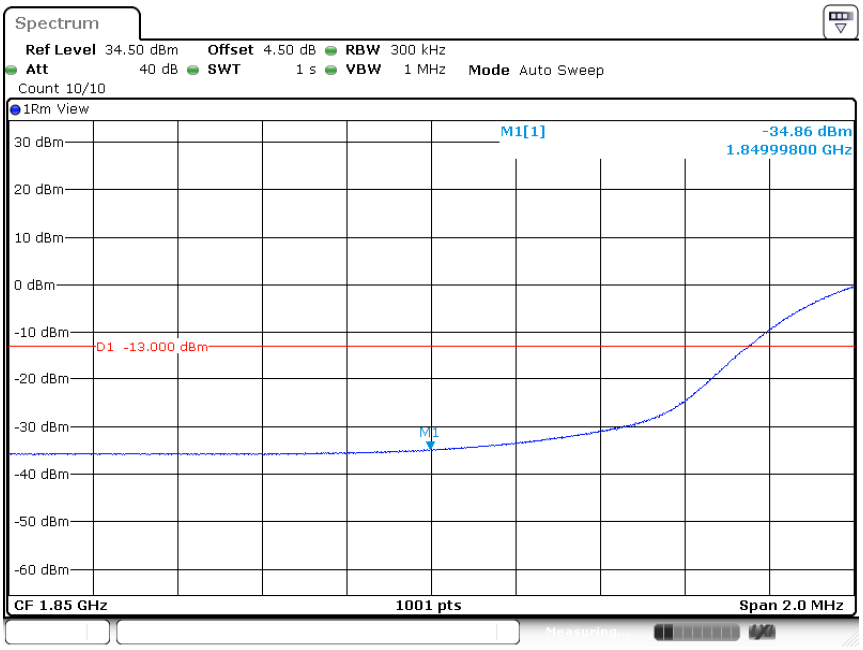
Band2-20MHz-64QAM-18700-100RB#0



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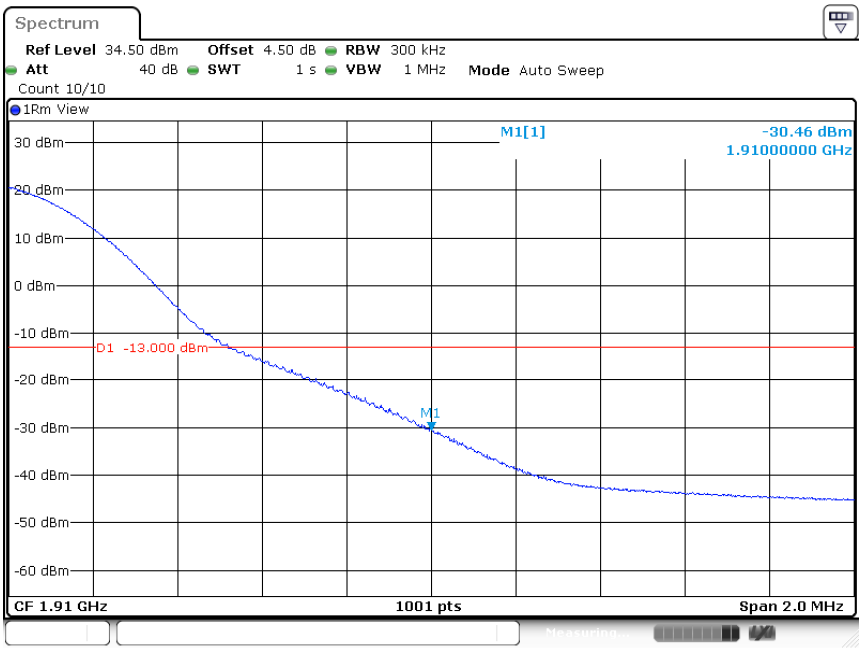

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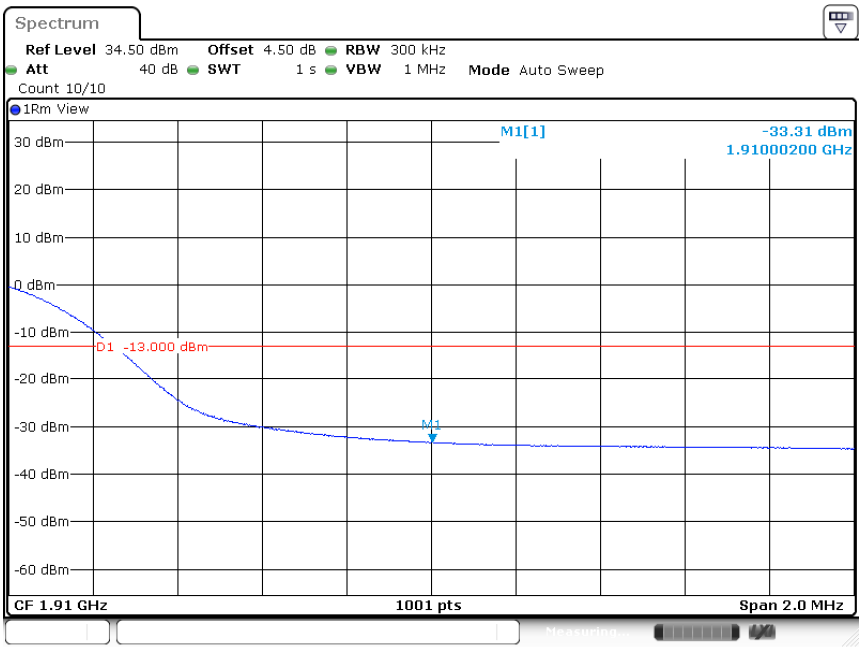

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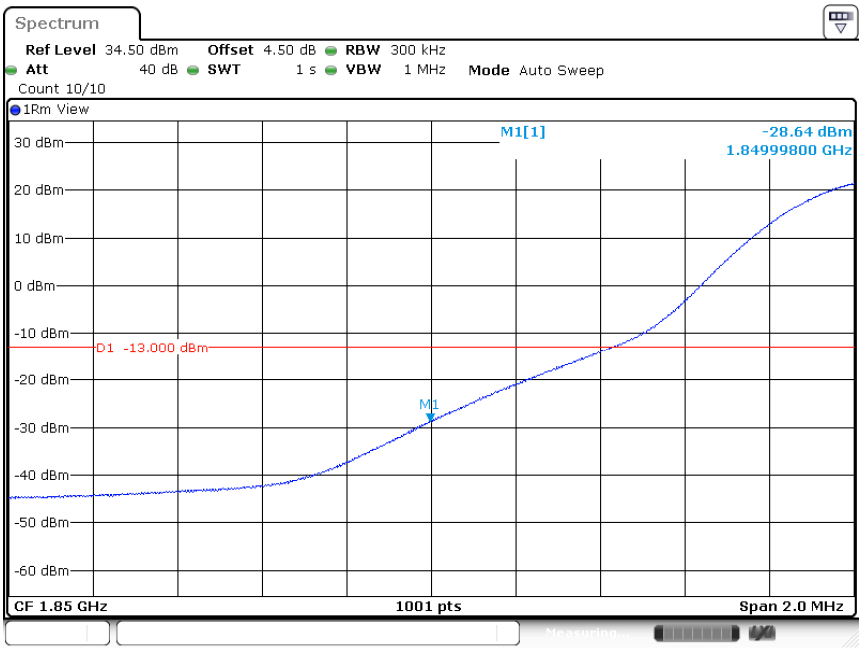
Band2-20MHz-16QAM-18700-1RB#0



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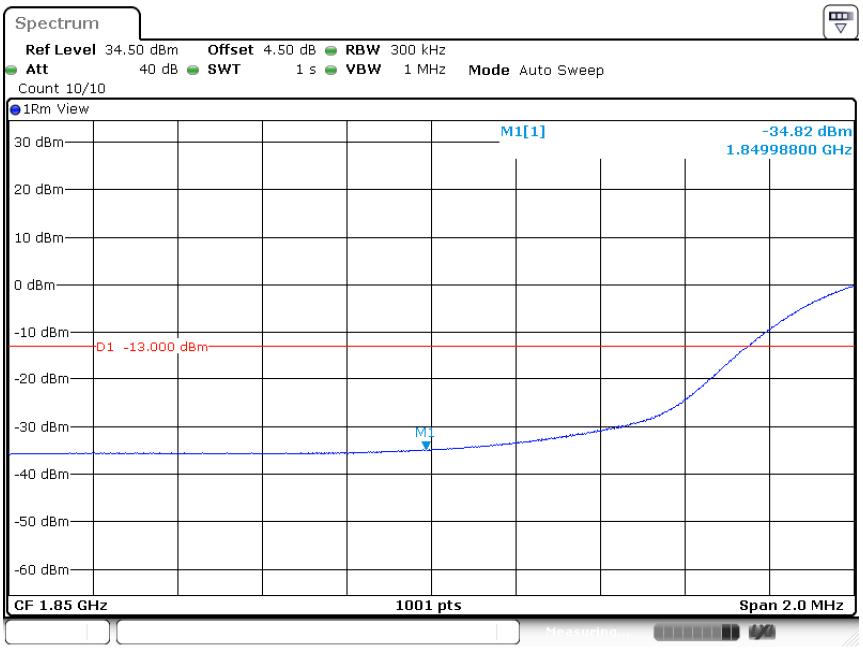
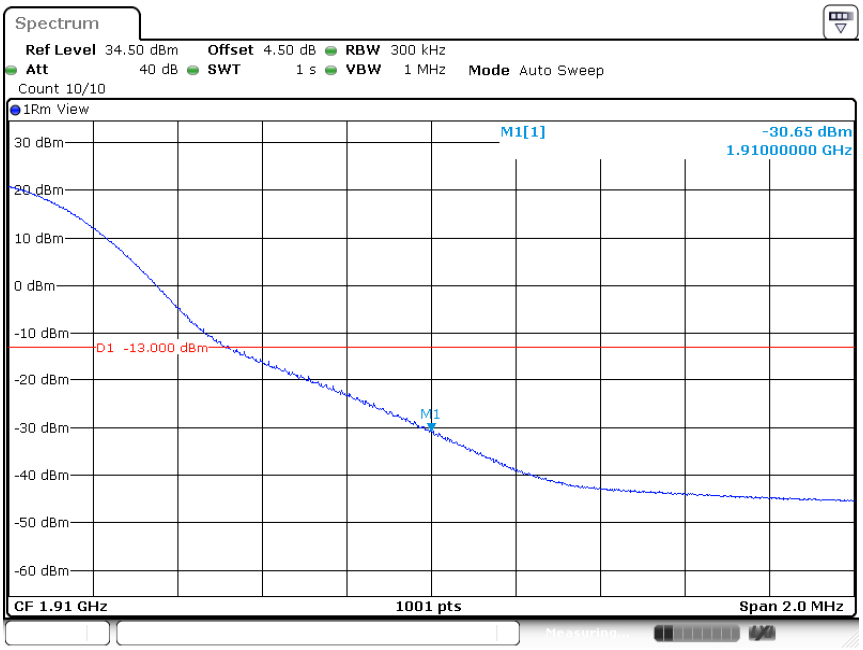


Date: 3.SEP.2020 21:56:58

Band2-20MHz-16QAM-19100-1RB#99



Date: 3.SEP.2020 21:55:32

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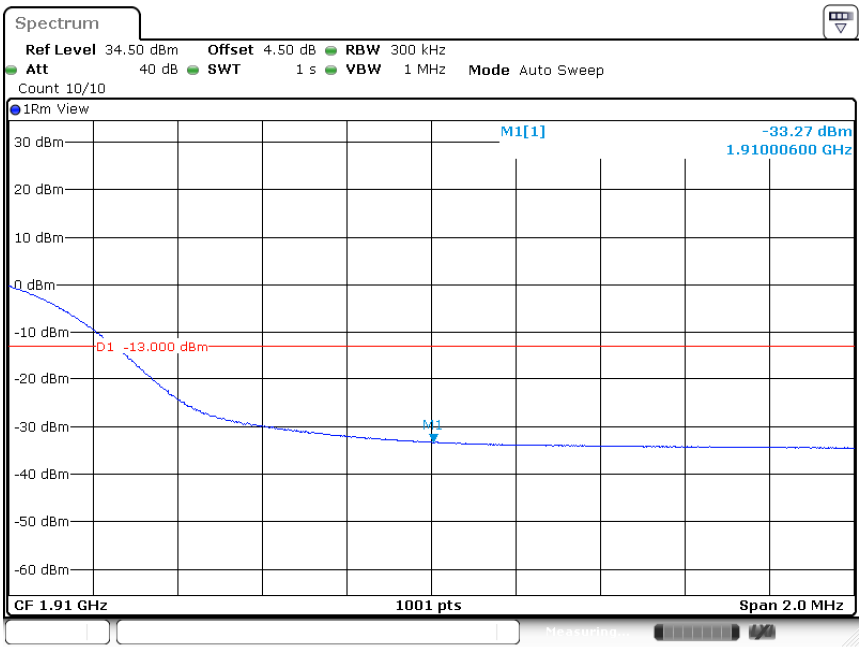
Band2-20MHz-16QAM-19100-100RB#0


Date: 3.SEP.2020 21:57:39

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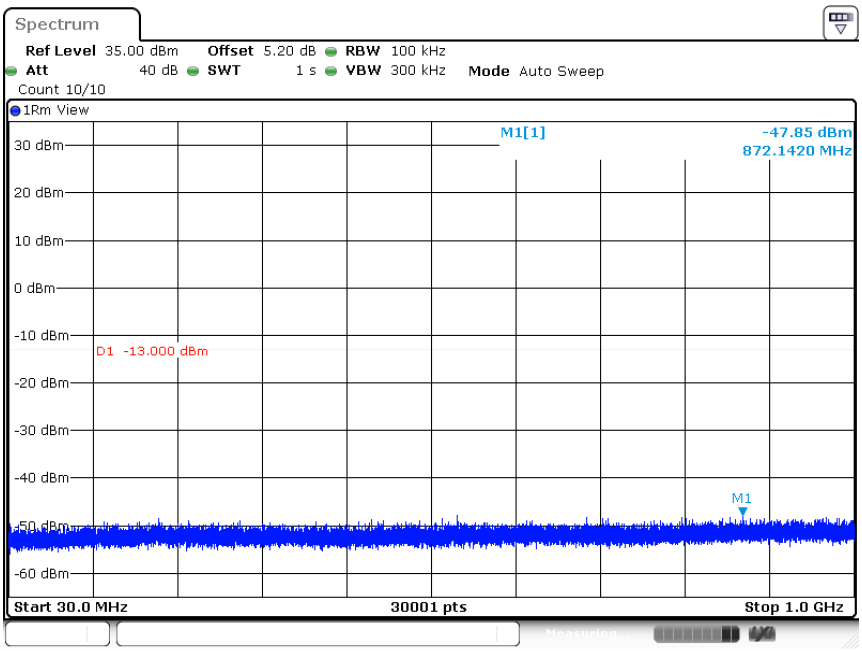
6. Spurious Emission at Antenna Terminal

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

Band2-20MHz-QPSK-18700-1RB#0-Range1:30~1000MHz



Date: 3.SEP.2020 21:58:03

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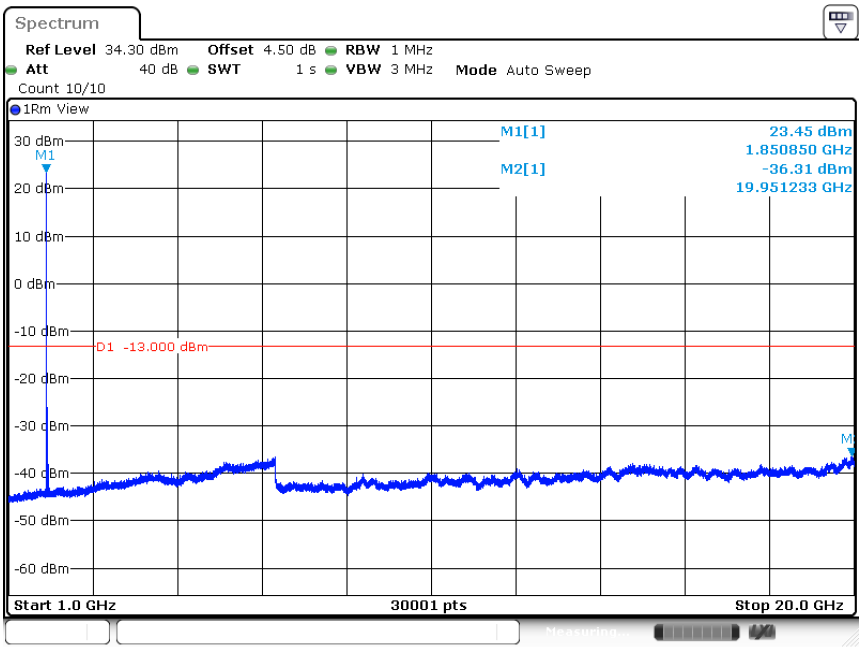
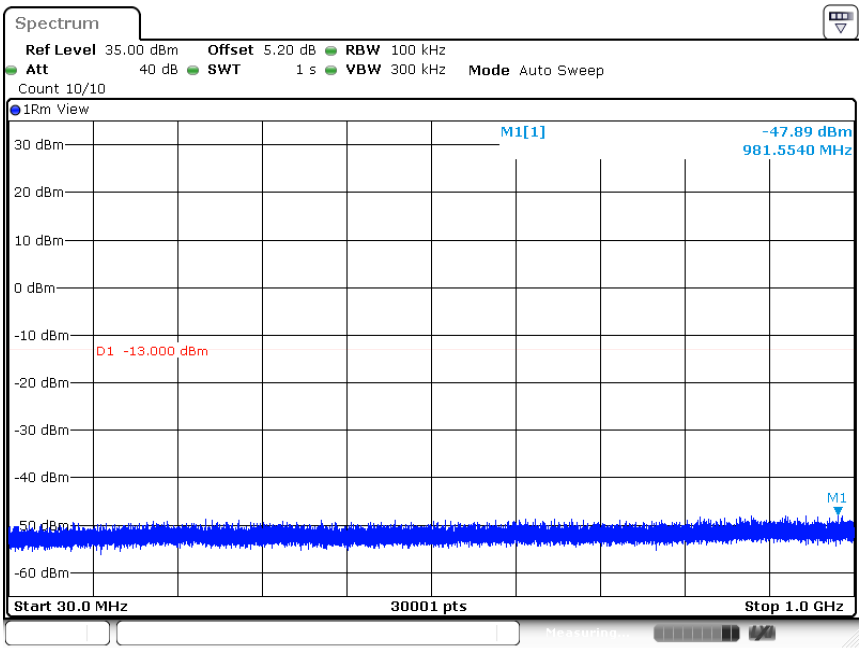
Band2-20MHz-QPSK-18700-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 21:58:19

Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz



Date: 3.SEP.2020 21:59:13

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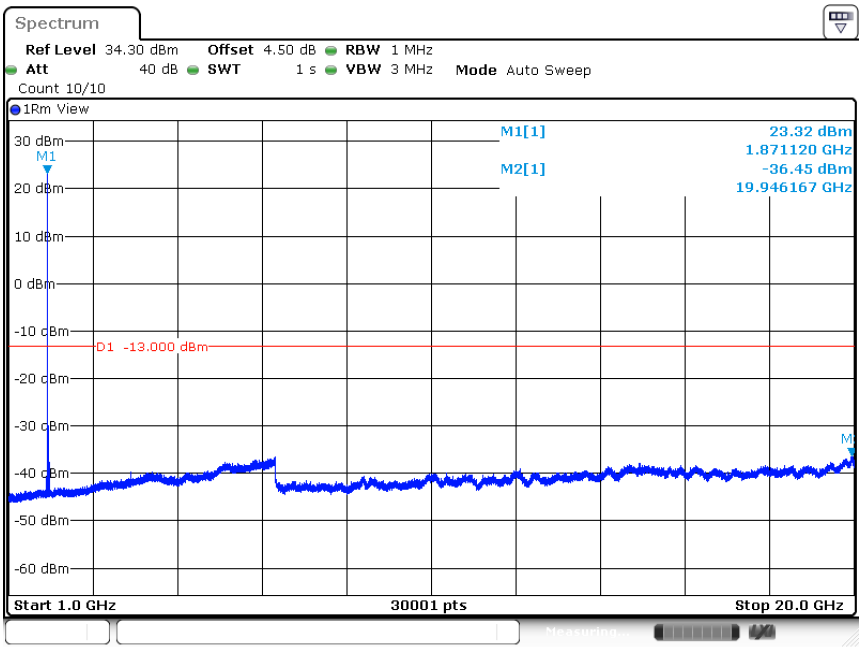
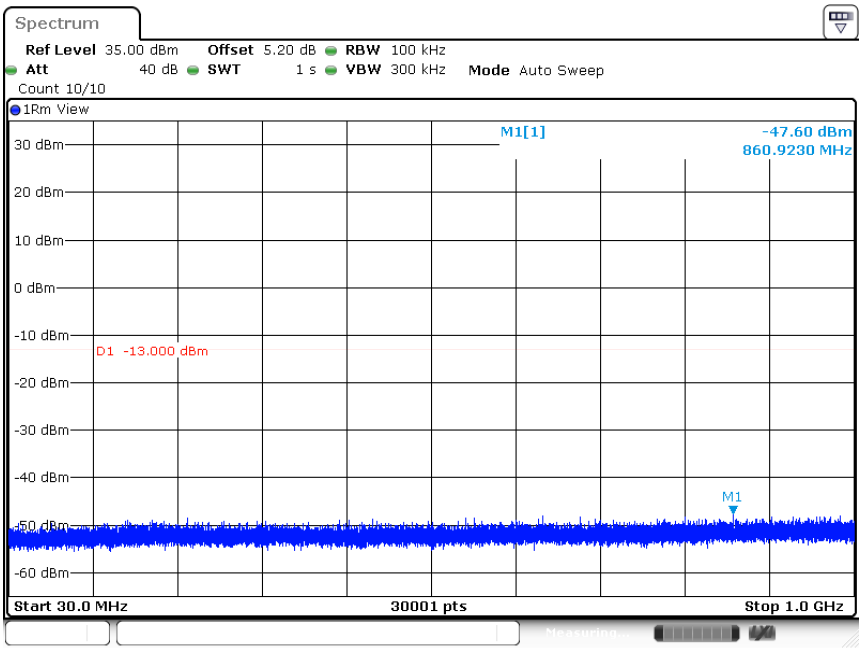
Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 21:59:29

Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz



Date: 3.SEP.2020 22:00:23

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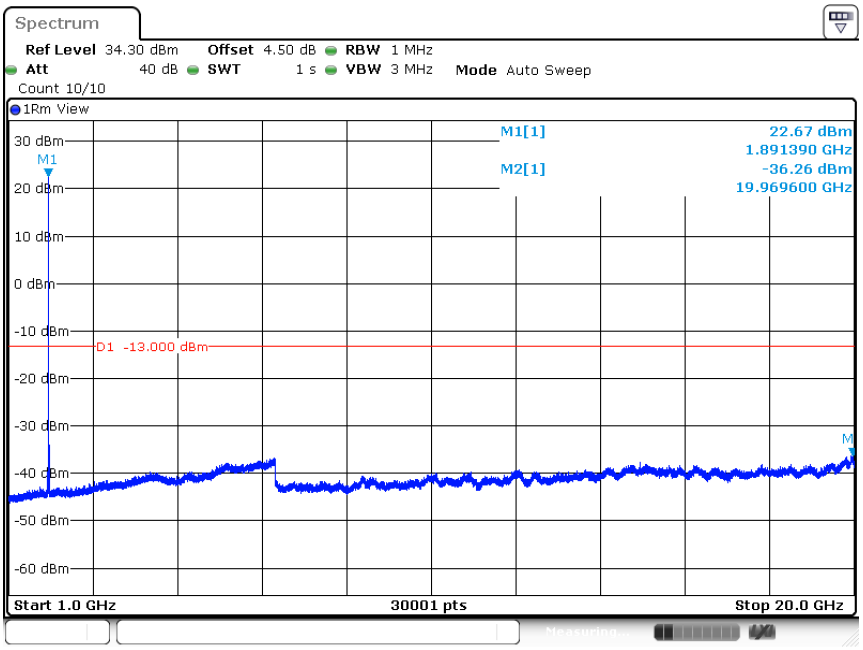
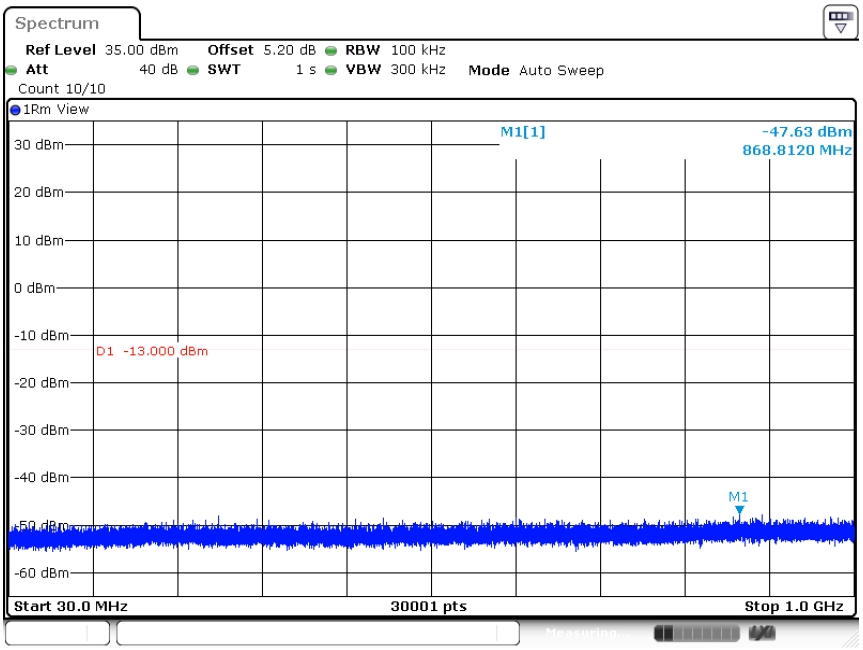
Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 22:00:39

Band2-20MHz-64QAM-18700-1RB#0-Range1:30~1000MHz



Date: 3.SEP.2020 23:50:40

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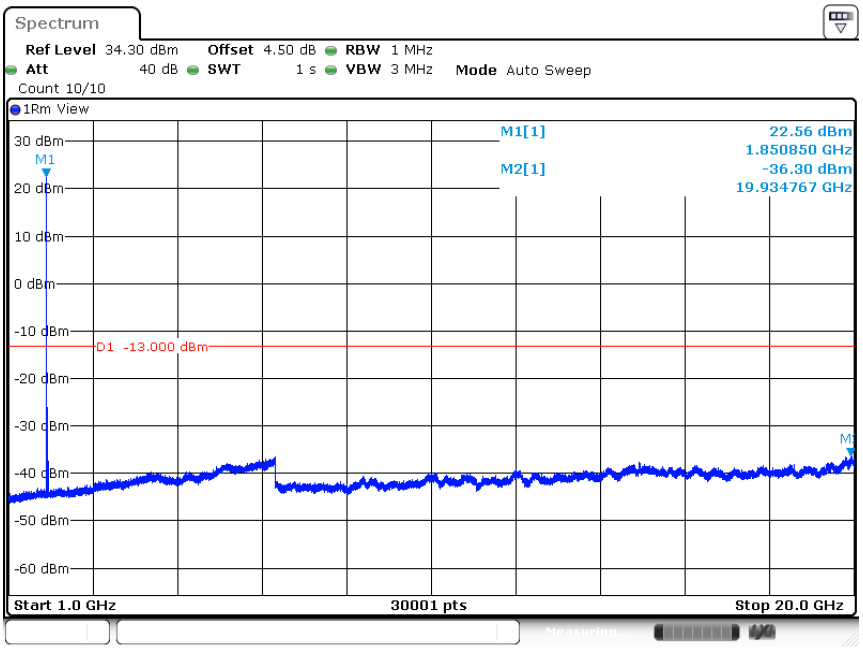
Band2-20MHz-64QAM-18700-1RB#0-Range2:1000~20000MHz



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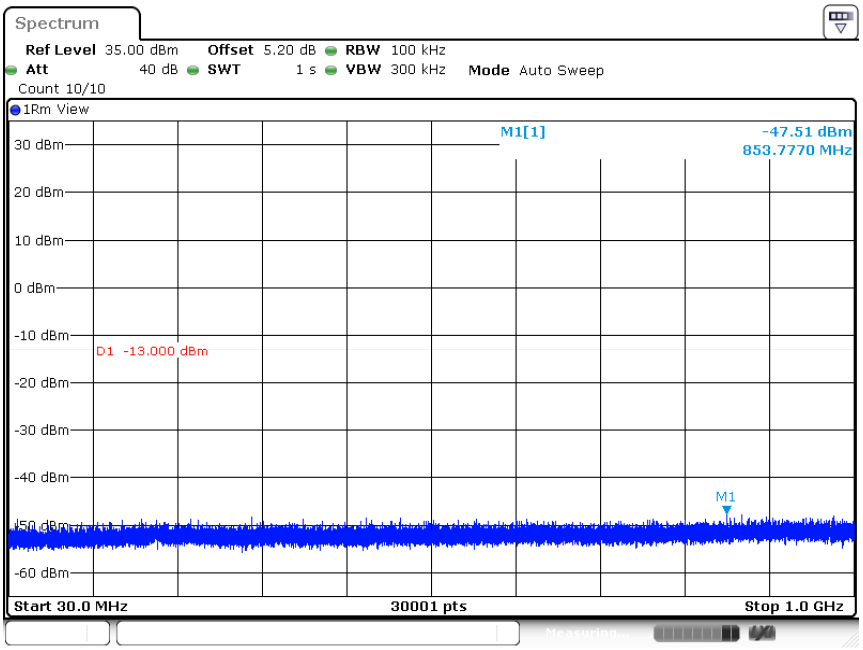
Band2-20MHz-64QAM-18900-1RB#0-Range1:30~1000MHz



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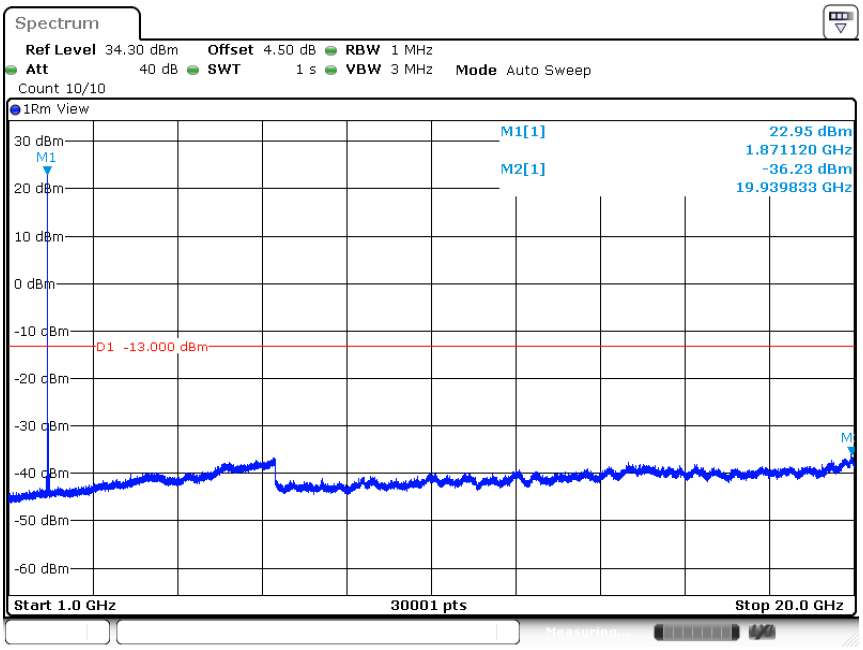
Band2-20MHz-64QAM-18900-1RB#0-Range2:1000~20000MHz



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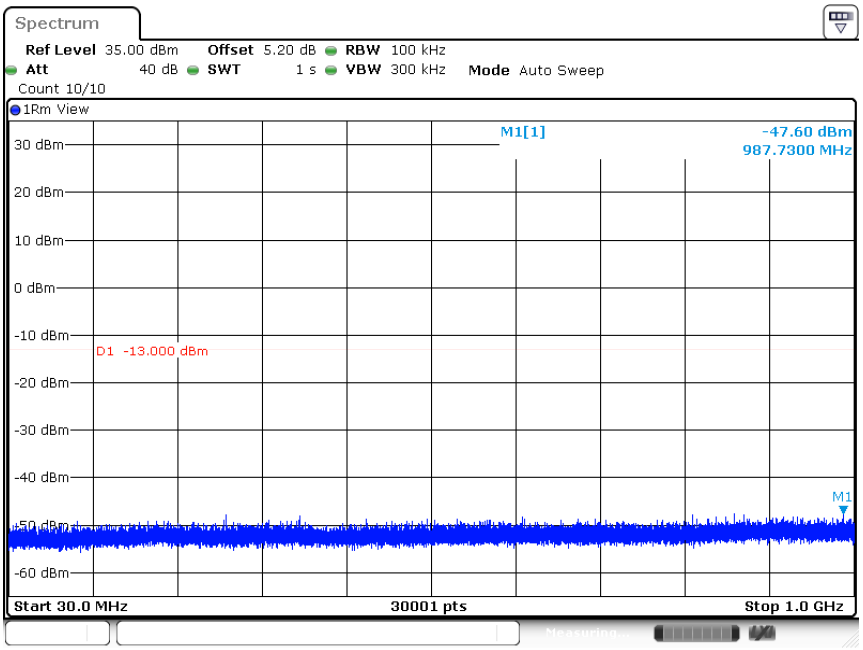
Band2-20MHz-64QAM-19100-1RB#0-Range1:30~1000MHz



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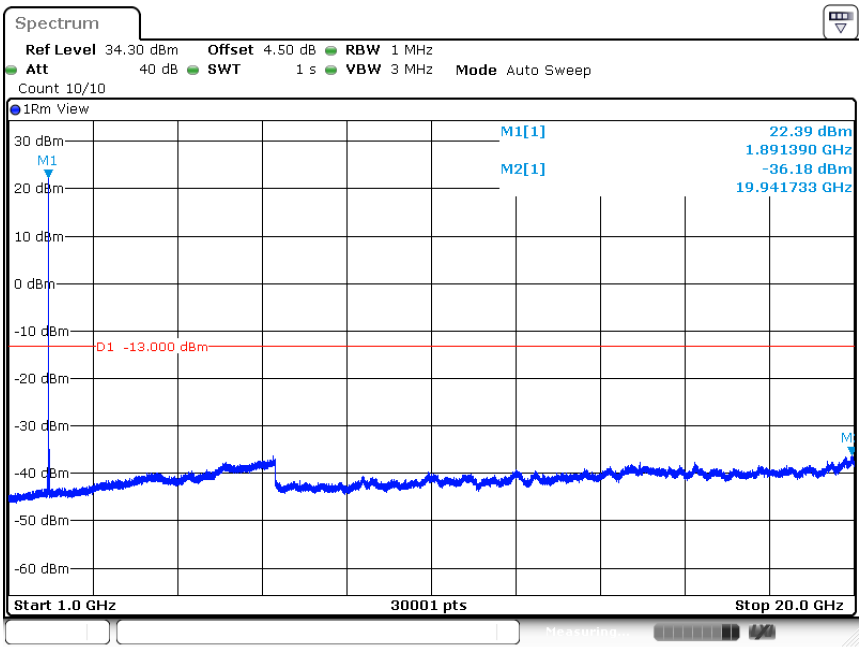
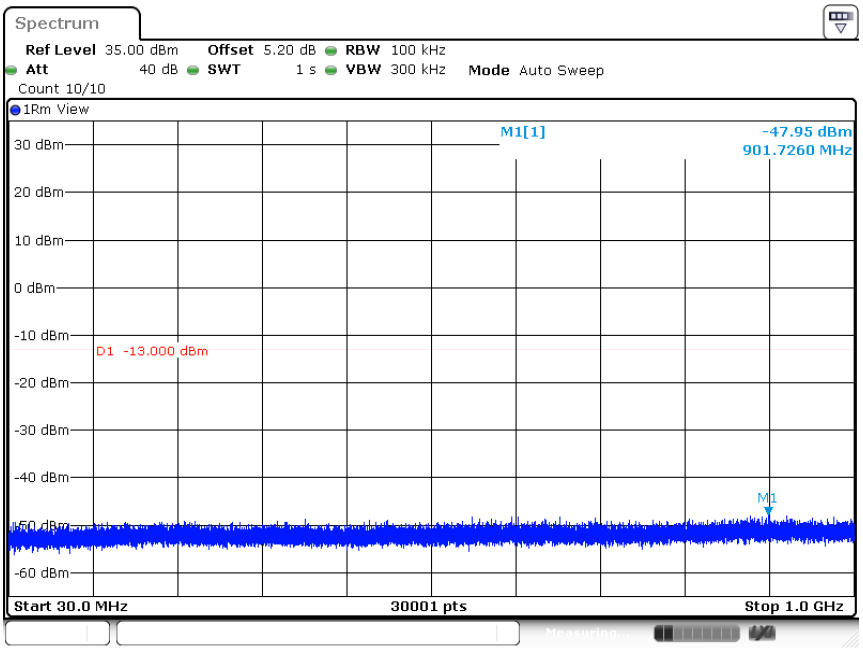
Band2-20MHz-64QAM-19100-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 23:52:07

Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



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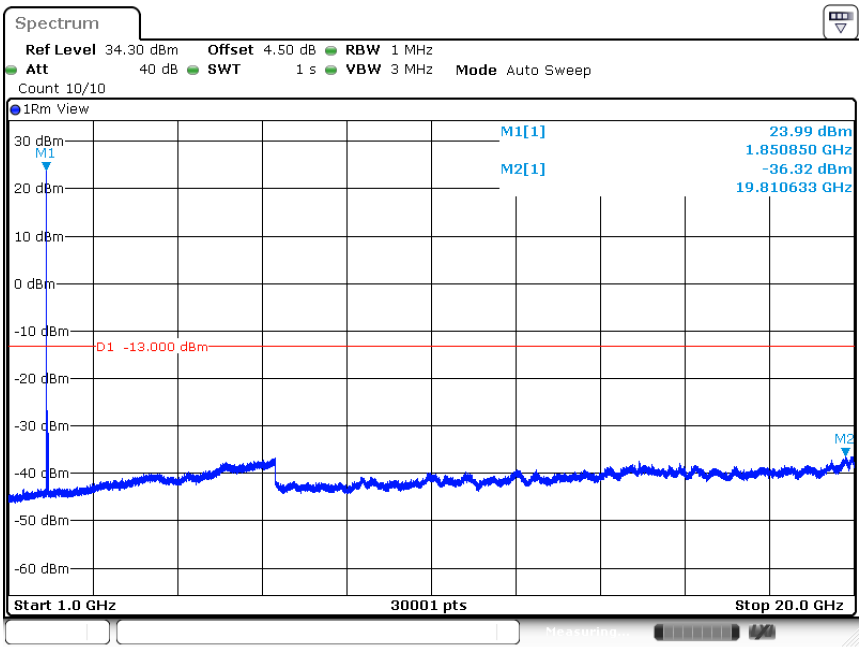
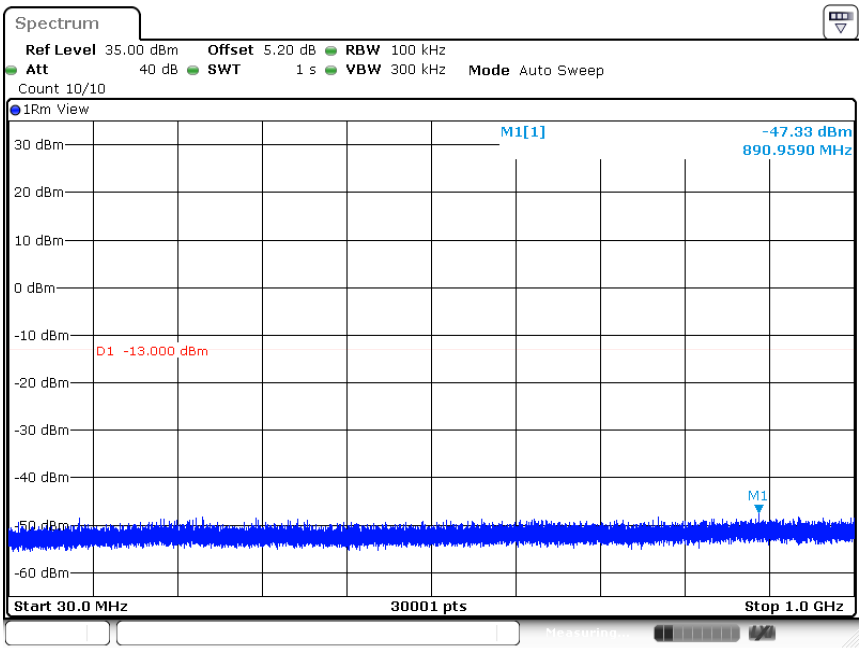
Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 21:58:54

Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz



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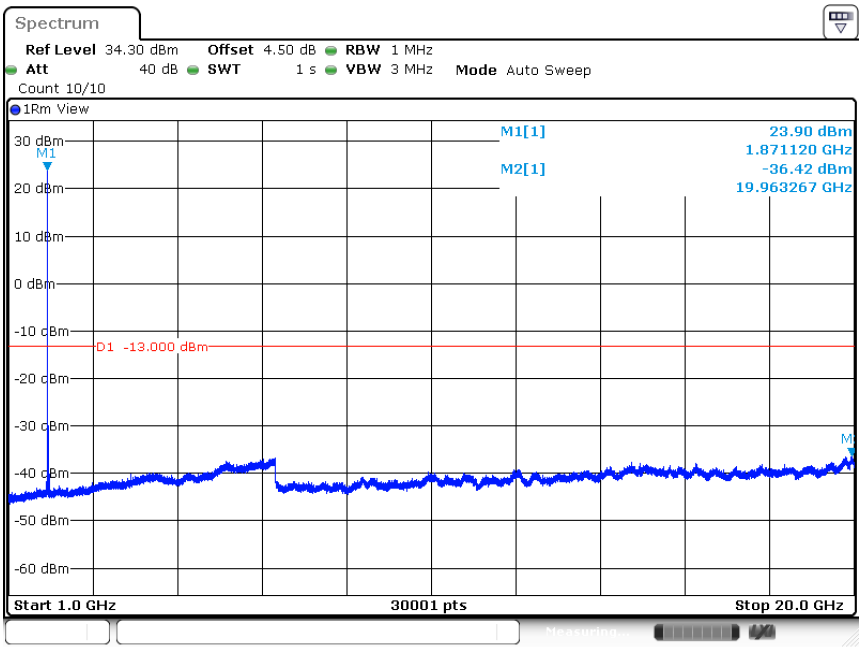
Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz



Date: 3.SEP.2020 22:00:04

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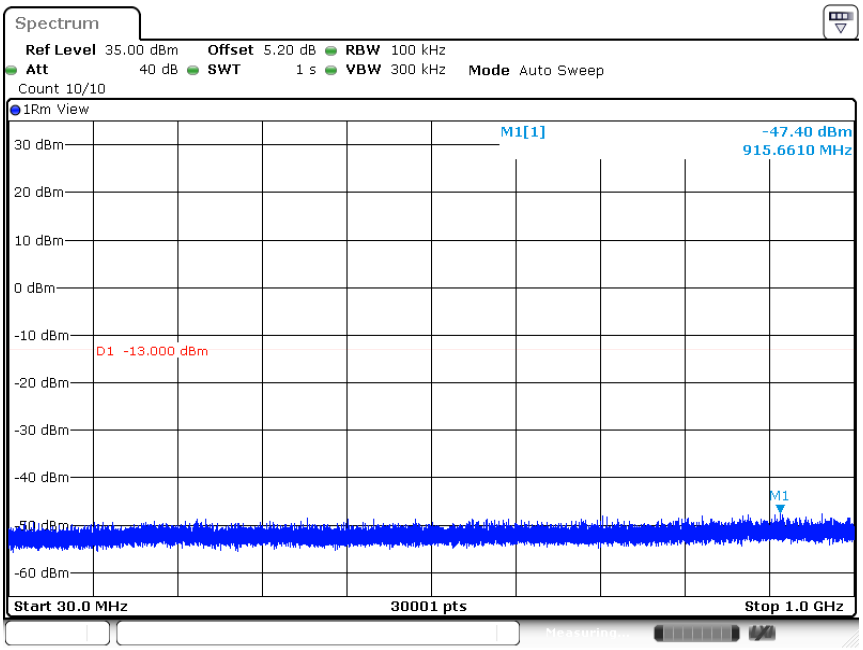

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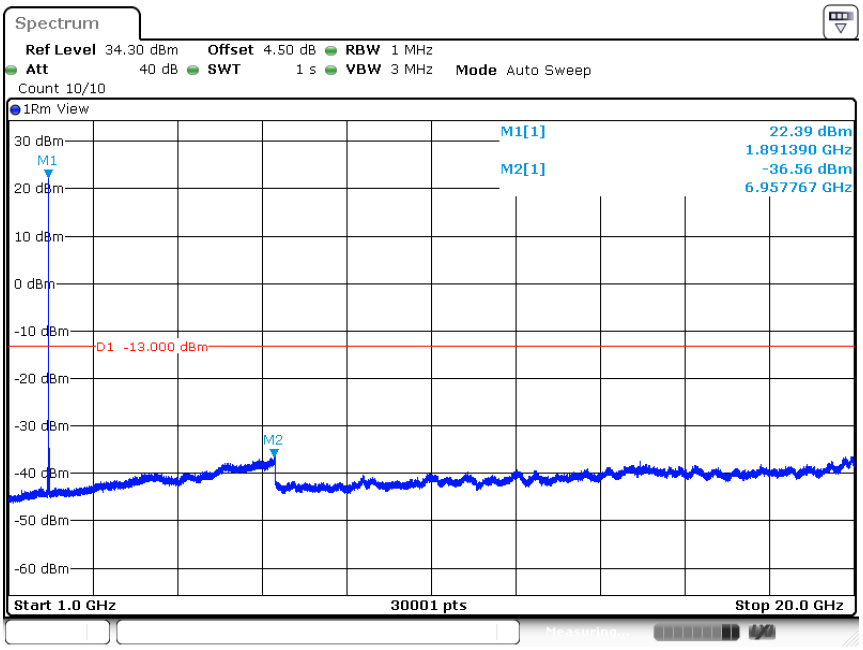
Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.5335	-75.00	-13.00	62.00	Vertical
111.3386	-64.65	-13.00	51.65	Vertical
591.1246	-64.35	-13.00	51.35	Vertical
3702.0234	-60.17	-13.00	47.17	Vertical
7338.6446	-55.63	-13.00	42.63	Vertical
17993.4998	-39.67	-13.00	26.67	Vertical
45.1328	-64.69	-13.00	51.69	Horizontal
227.3079	-67.99	-13.00	54.99	Horizontal
607.8094	-63.37	-13.00	50.37	Horizontal
3702.0234	-55.58	-13.00	42.58	Horizontal
7450.1483	-56.40	-13.00	43.40	Horizontal
16401.4467	-44.04	-13.00	31.04	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.3880	-75.38	-13.00	62.38	Vertical
114.5882	-64.90	-13.00	51.90	Vertical
605.6753	-63.91	-13.00	50.91	Vertical
3742.0247	-56.95	-13.00	43.95	Vertical
9329.7110	-52.39	-13.00	39.39	Vertical
17985.4995	-39.67	-13.00	26.67	Vertical
40.9130	-64.68	-13.00	51.68	Horizontal
103.2387	-75.13	-13.00	62.13	Horizontal
229.5875	-68.56	-13.00	55.56	Horizontal
3742.0247	-54.53	-13.00	41.53	Horizontal
9309.2103	-52.62	-13.00	39.62	Horizontal
16389.9463	-43.09	-13.00	30.09	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.7275	-73.65	-13.00	60.65	Vertical
109.9320	-65.19	-13.00	52.19	Vertical
607.1304	-63.72	-13.00	50.72	Vertical
3782.5261	-58.53	-13.00	45.53	Vertical
7365.1455	-55.75	-13.00	42.75	Vertical
17990.9997	-39.78	-13.00	26.78	Vertical
43.3867	-64.45	-13.00	51.45	Horizontal
102.9962	-75.30	-13.00	62.30	Horizontal
241.9556	-68.44	-13.00	55.44	Horizontal
3782.5261	-51.87	-13.00	38.87	Horizontal
7461.6487	-56.40	-13.00	43.40	Horizontal
16398.4466	-43.22	-13.00	30.22	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 displayed in this report.

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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	3.60	0.001935	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	4.10	0.002204	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	3.80	0.002043	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-0.20	-0.000106	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	1.20	0.000638	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-1.00	-0.000532	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-3.70	-0.001947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-1.60	-0.000842	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-2.70	-0.001421	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VL	NT	4.50	0.002419	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VN	NT	3.50	0.001882	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VH	NT	2.70	0.001452	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VL	NT	1.20	0.000638	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VN	NT	1.00	0.000532	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VH	NT	1.20	0.000638	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VN	NT	-0.30	-0.000158	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VH	NT	-0.60	-0.000316	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	1.60	0.000860	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	0.30	0.000161	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	4.00	0.002151	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	2.10	0.001117	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	1.80	0.000957	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	0.50	0.000266	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-3.10	-0.001632	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-4.40	-0.002316	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-2.90	-0.001526	±2.5	PASS

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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	1.00	0.000538	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	0.10	0.000054	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-10	2.90	0.001559	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	4.20	0.002258	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	1.60	0.000860	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	2.70	0.001452	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-1.00	-0.000538	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	1.10	0.000591	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	0.70	0.000376	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	0.90	0.000479	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	1.10	0.000585	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	3.00	0.001596	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	2.40	0.001277	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	2.50	0.001330	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	2.40	0.001277	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	1.60	0.000851	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	1.70	0.000904	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	1.90	0.001011	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-1.40	-0.000737	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-1.50	-0.000789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-10	-1.90	-0.001000	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-5.30	-0.002789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-3.70	-0.001947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-5.00	-0.002632	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-1.30	-0.000684	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-2.60	-0.001368	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-3.10	-0.001632	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-30	4.80	0.002581	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-20	0.40	0.000215	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-10	3.30	0.001774	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	0	4.50	0.002419	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	10	3.80	0.002043	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	20	-0.10	-0.000054	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	30	0.70	0.000376	±2.5	PASS

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Band2	20MHz	64QAM	18700	100RB#0	NV	40	3.70	0.001989	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	50	4.10	0.002204	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-30	0.20	0.000106	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-20	1.00	0.000532	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-10	0.30	0.000160	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	0	2.40	0.001277	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	10	2.00	0.001064	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	20	-0.80	-0.000426	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	30	-0.70	-0.000372	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	40	2.40	0.001277	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	50	0.70	0.000372	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-30	-2.10	-0.001105	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-20	0.40	0.000211	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-10	-1.40	-0.000737	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	0	-2.20	-0.001158	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	10	-1.30	-0.000684	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	20	-2.40	-0.001263	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	30	-1.60	-0.000842	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	40	-1.50	-0.000789	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	50	-4.10	-0.002158	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	3.30	0.001774	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	2.30	0.001237	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-10	3.40	0.001828	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	5.50	0.002957	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	3.90	0.002097	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	3.10	0.001667	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	3.90	0.002097	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	3.70	0.001989	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	2.90	0.001543	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	1.00	0.000532	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-10	0.20	0.000106	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	-0.90	-0.000479	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	2.60	0.001383	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	1.20	0.000638	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	2.90	0.001543	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	0.70	0.000372	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	1.40	0.000745	±2.5	PASS

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Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-3.50	-0.001842	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-0.40	-0.000211	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-10	-3.40	-0.001789	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-1.70	-0.000895	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-4.30	-0.002263	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-2.20	-0.001158	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-3.70	-0.001947	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-0.90	-0.000474	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-0.80	-0.000421	±2.5	PASS

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