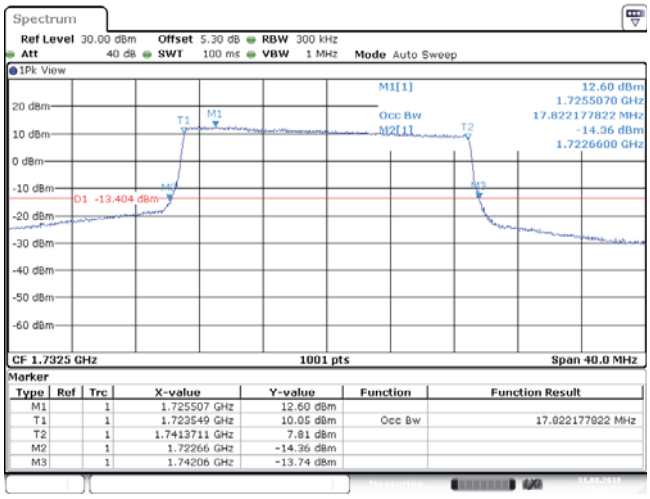

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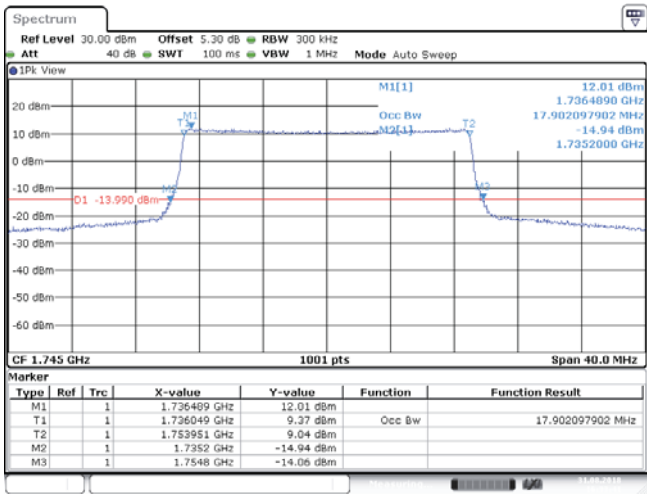

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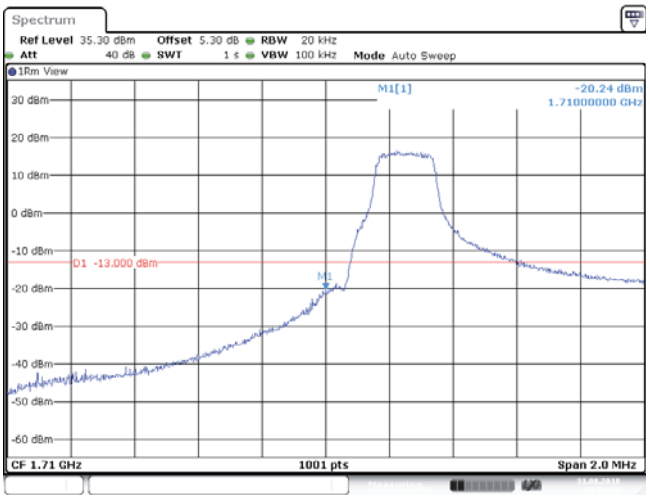
5. Band Edge Compliance

5.

5.1. Test Plots

BAND4_1.4MHz_QPSK_19957_1RB#0



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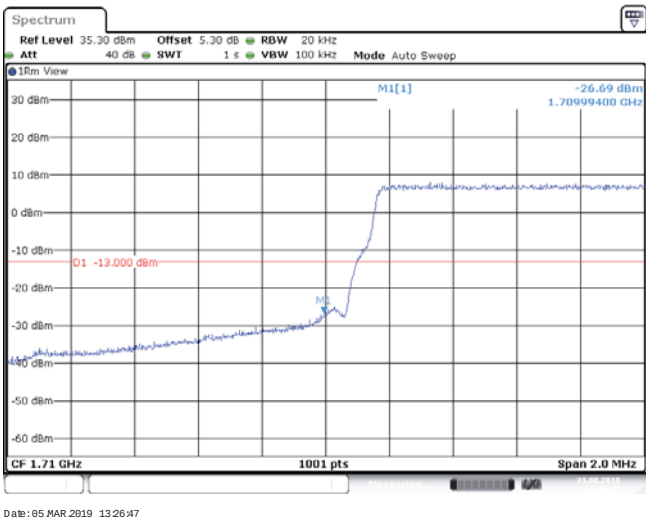

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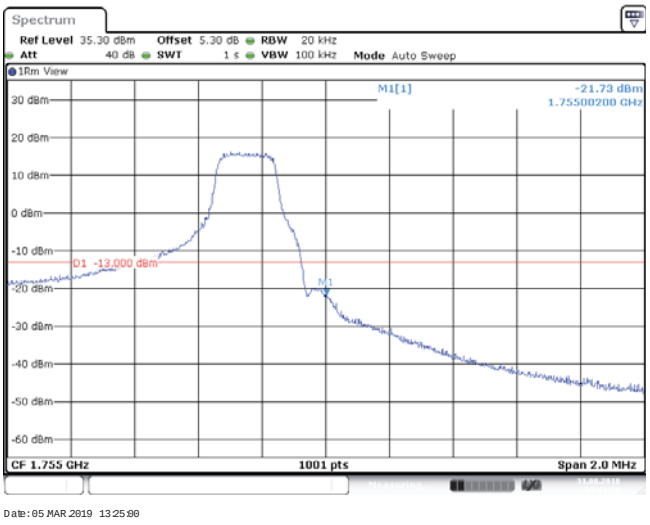

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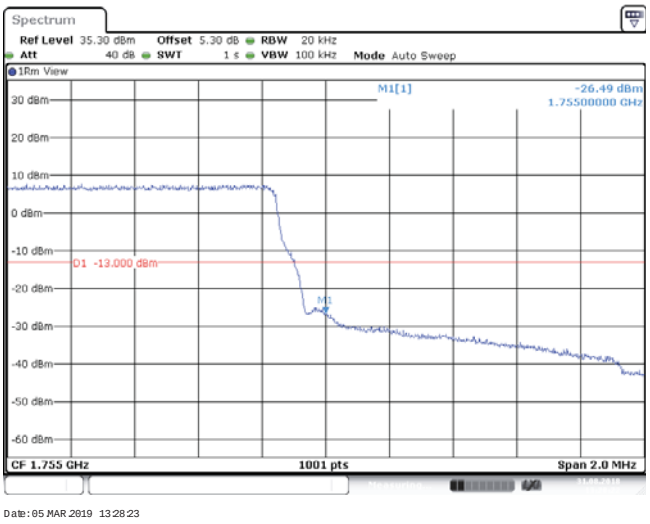

BAND4_1.4MHz_64QAM_19957_1RB#0

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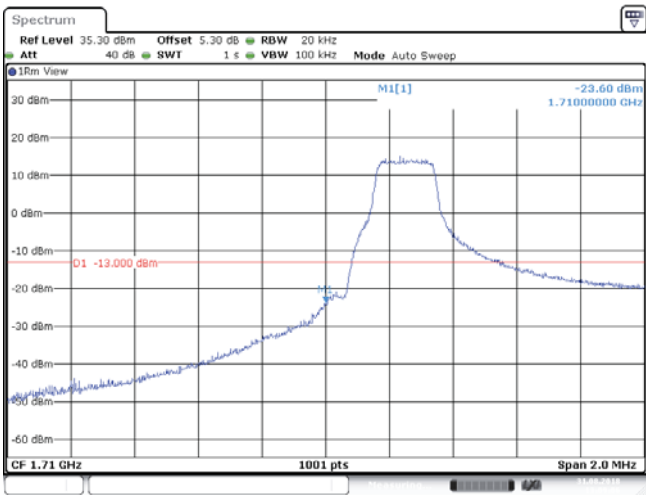

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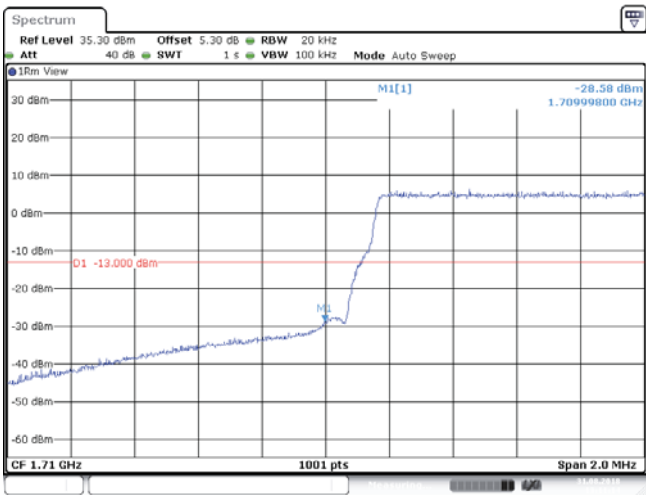

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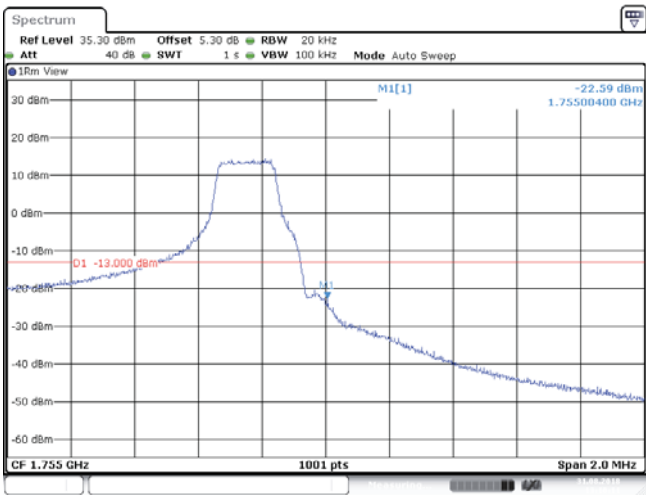

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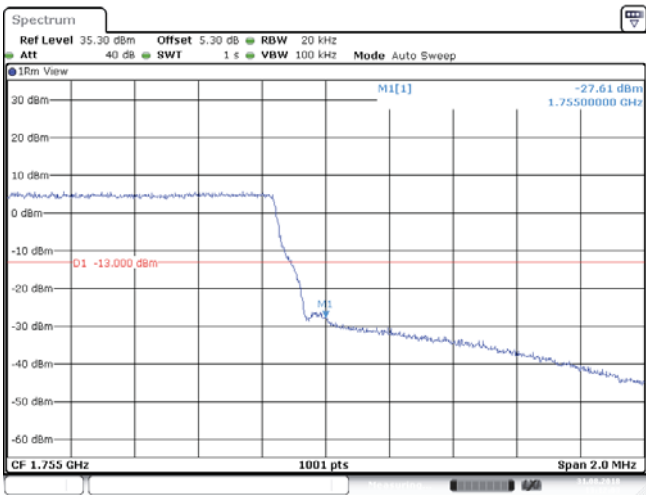

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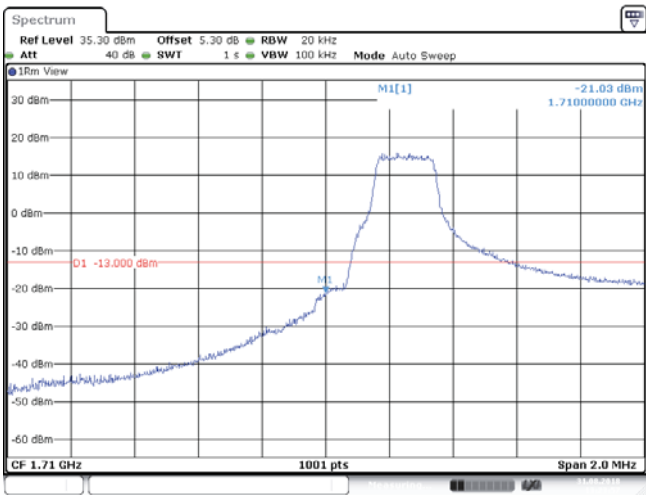

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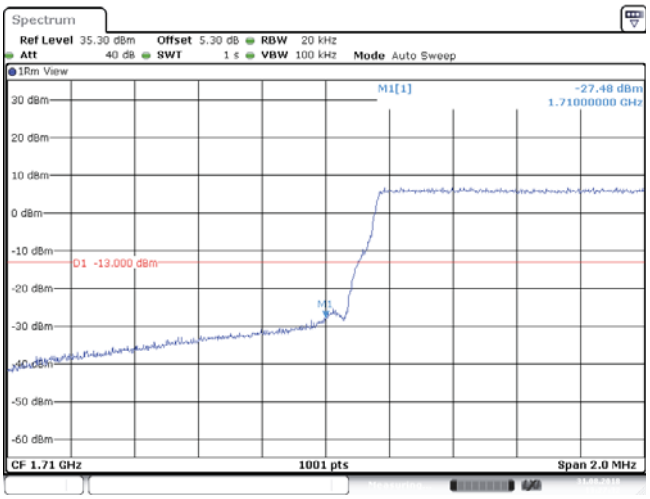

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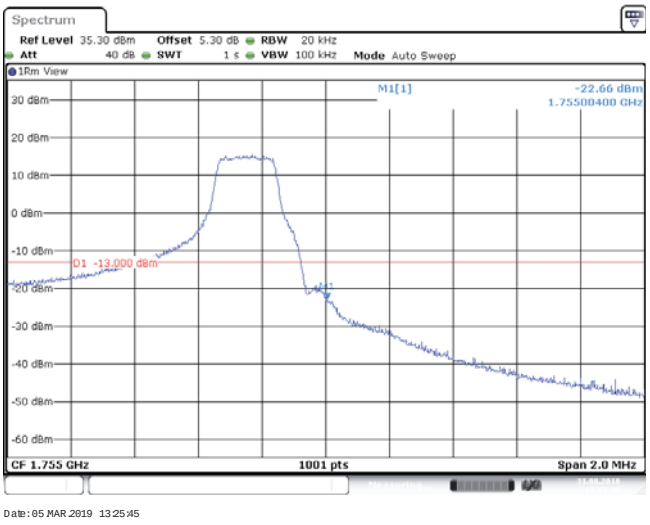

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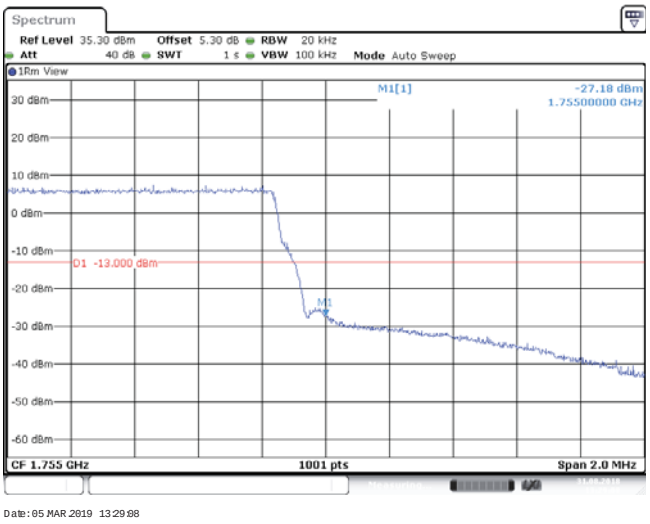

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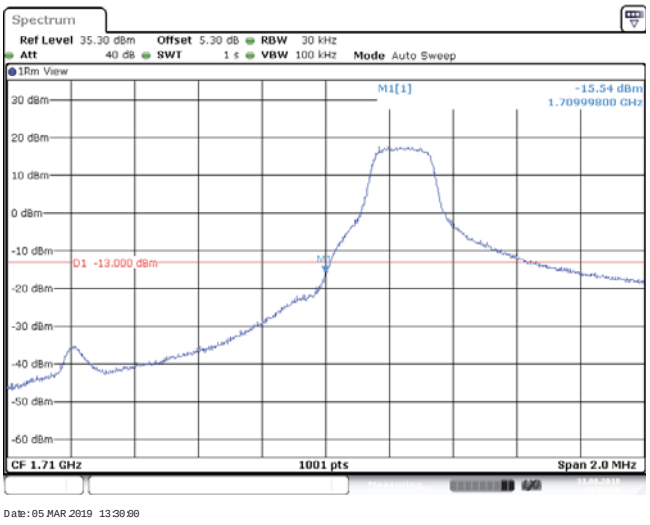

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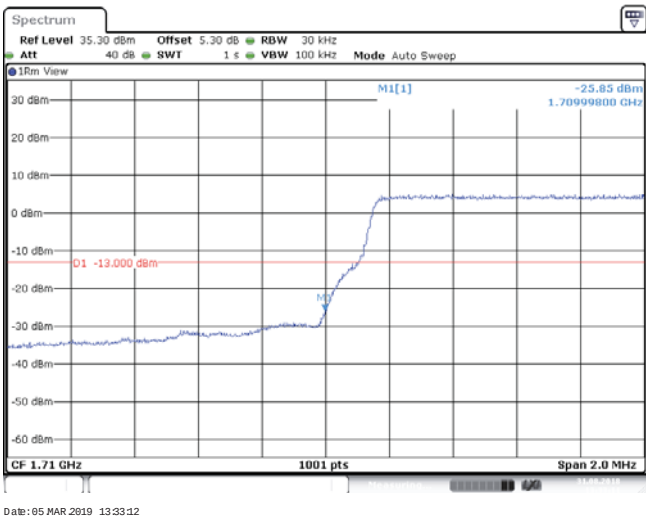

BAND4_3MHz_QPSK_20385_1RB#14

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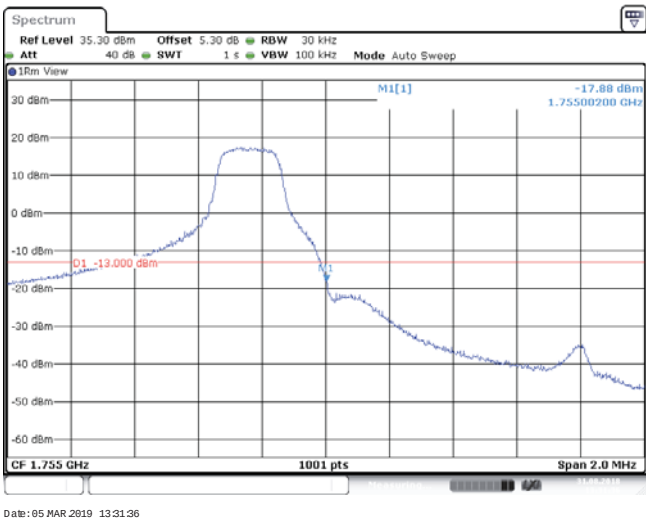

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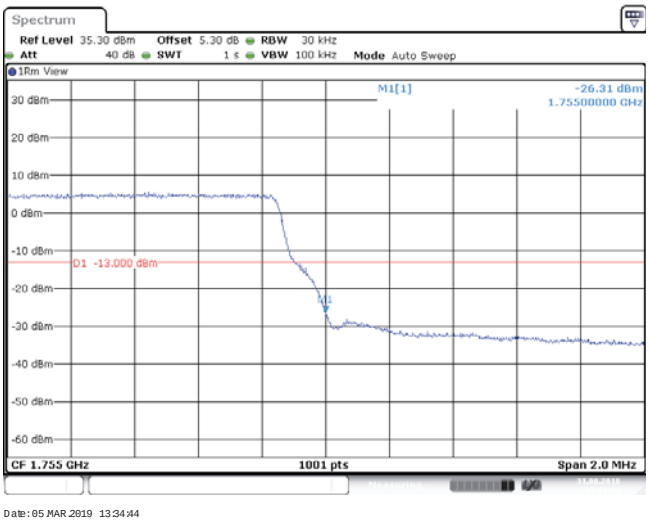

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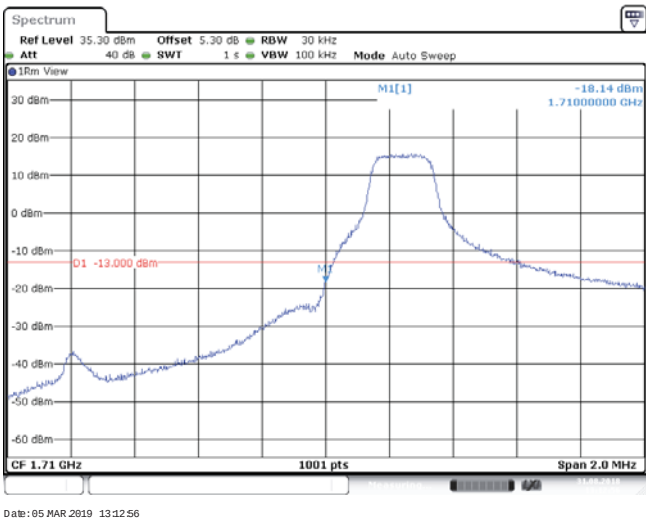

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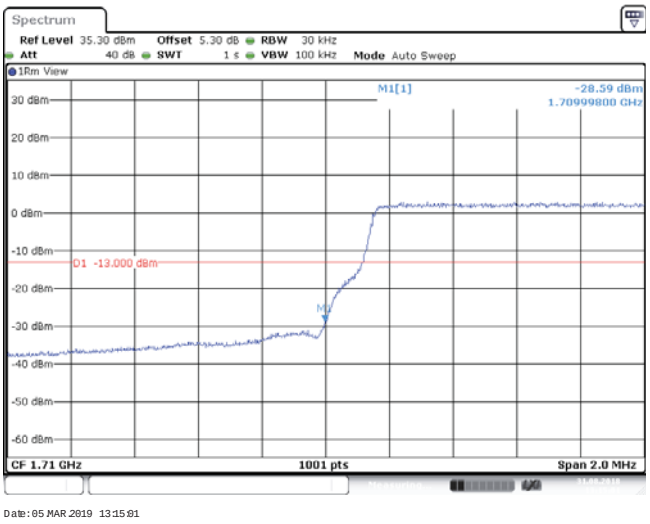

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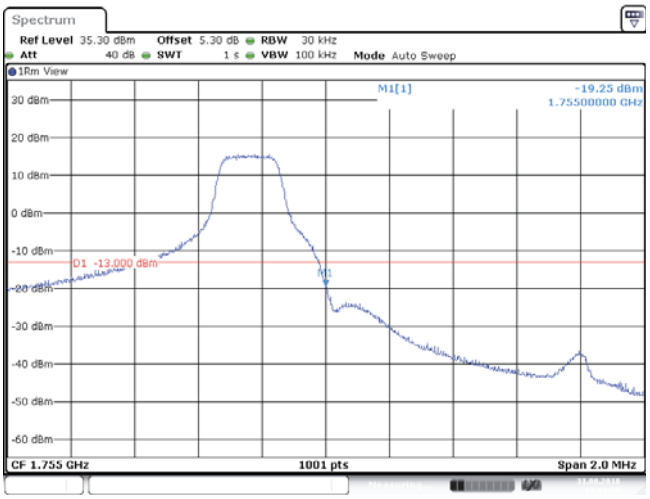

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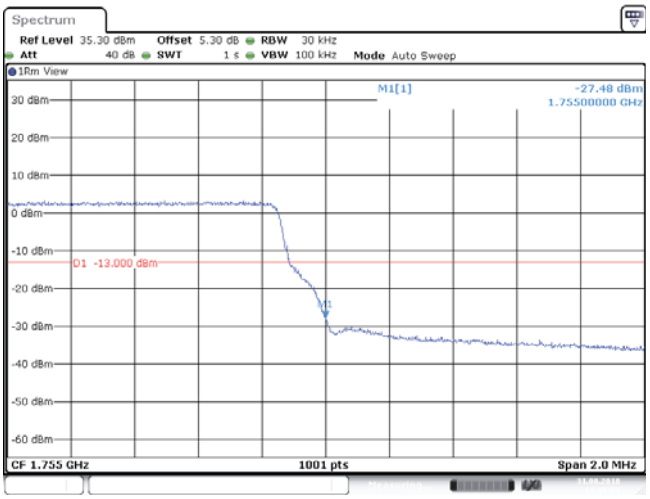

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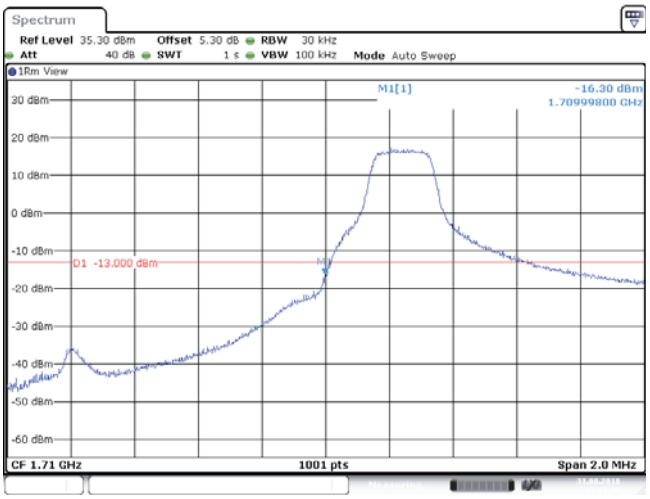

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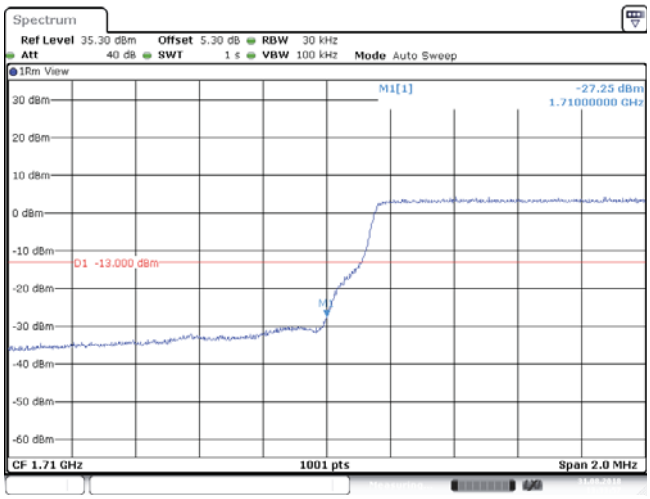

BAND4_3MHz_16QAM_20385_1RB#14

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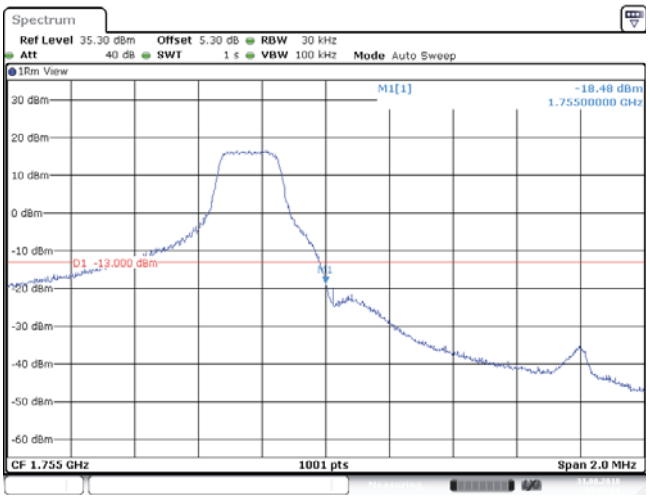

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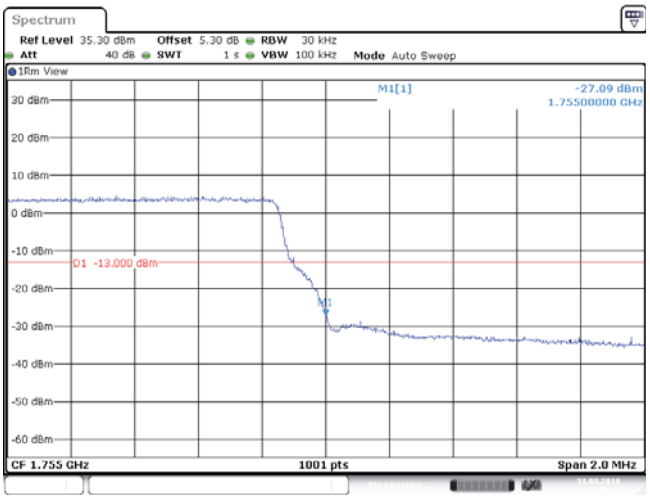

BAND4_5MHz_QPSK_19975_1RB#0

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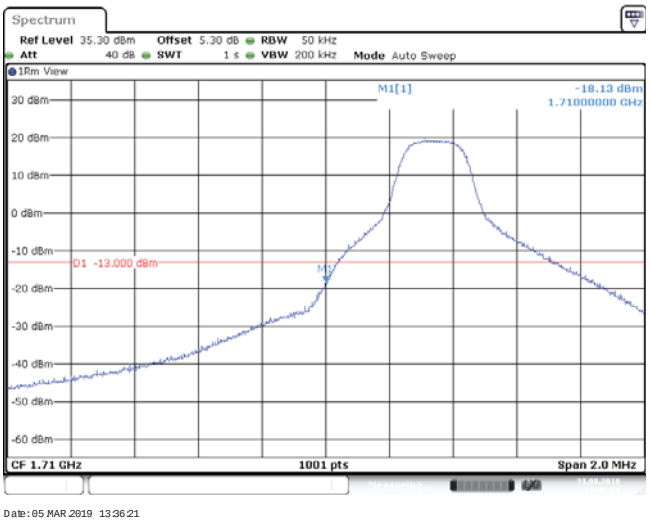

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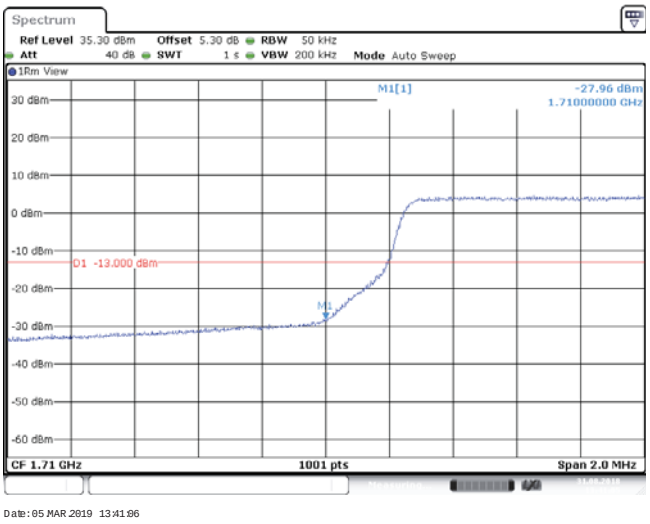

BAND4_5MHz_QPSK_20375_1RB#24

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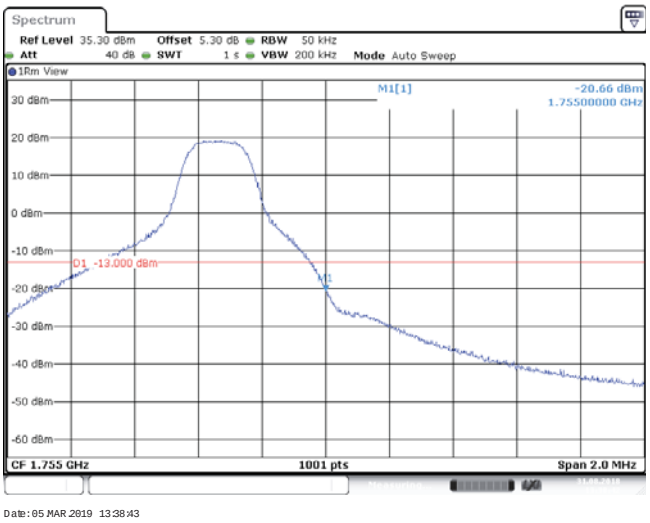

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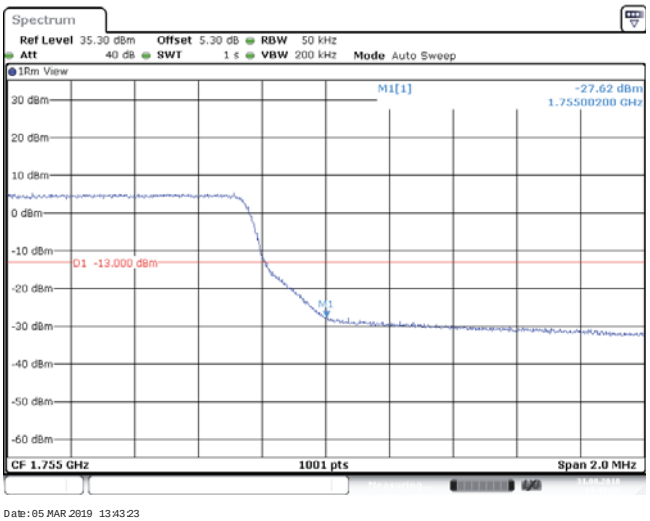

BAND4_5MHz_64QAM_19975_1RB#0

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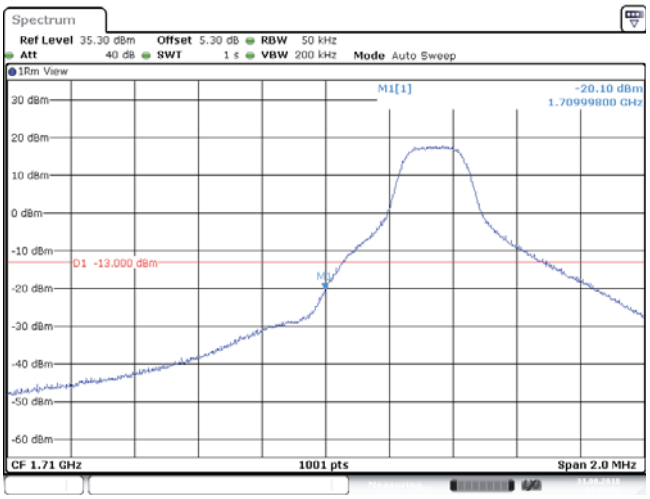

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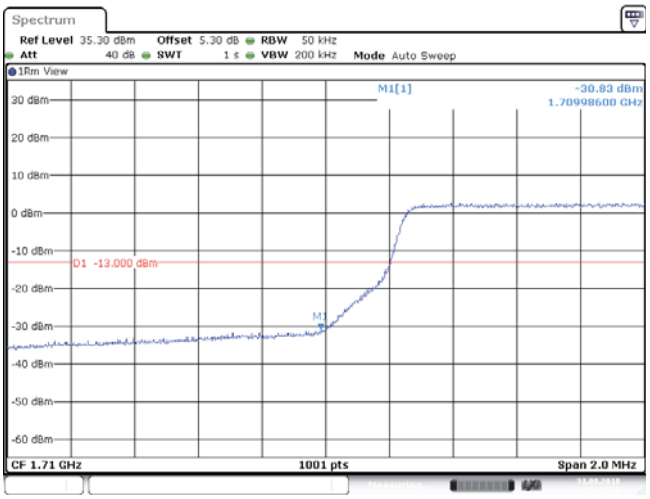

BAND4_5MHz_64QAM_20375_1RB#24

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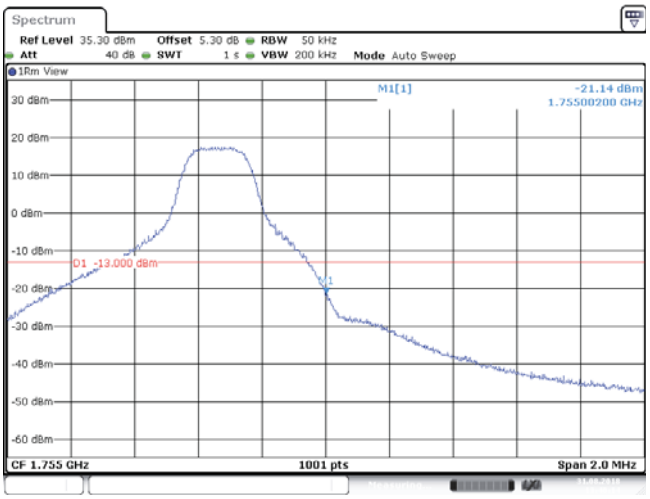

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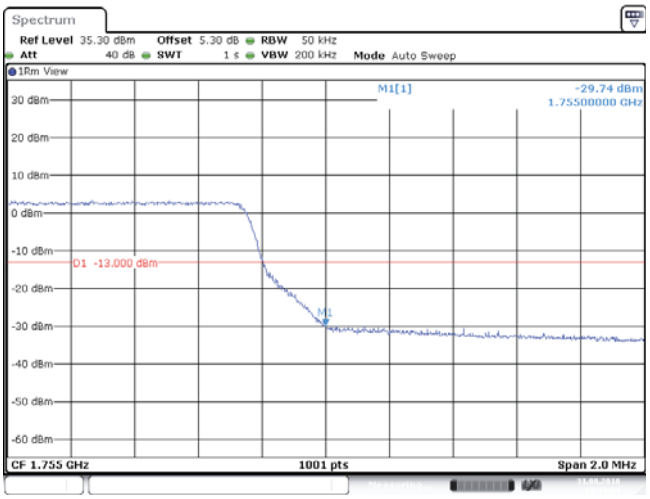

BAND4_5MHz_16QAM_19975_1RB#0

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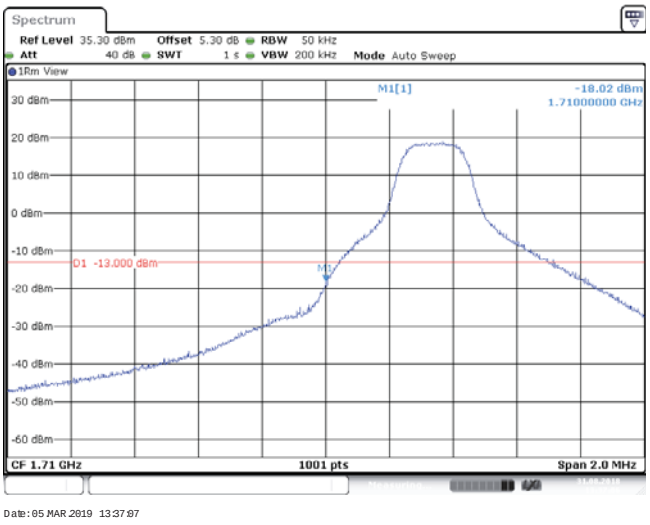

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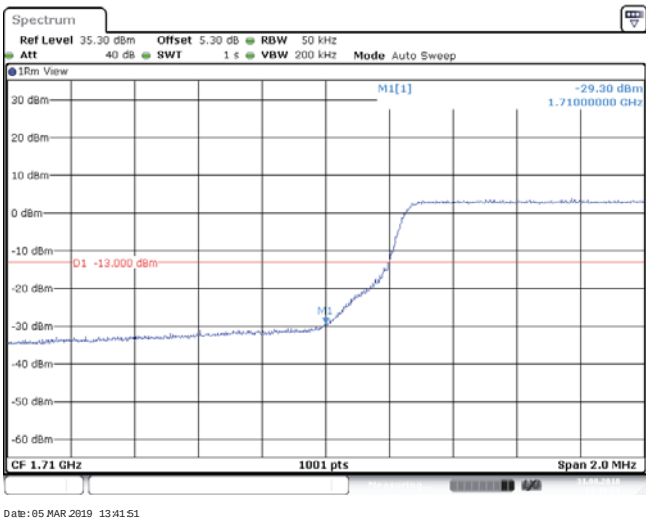

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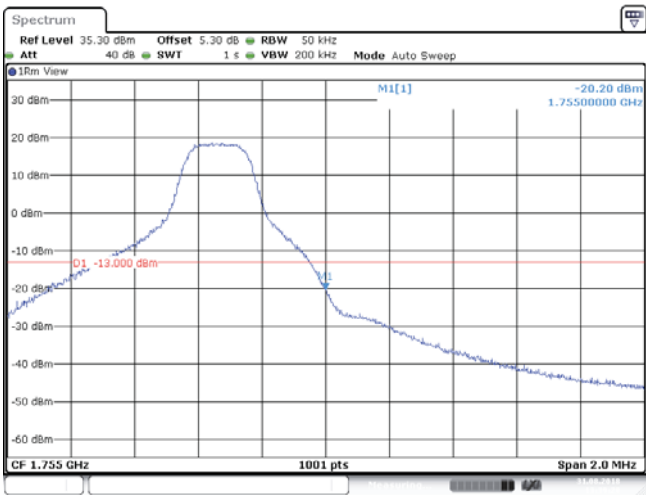

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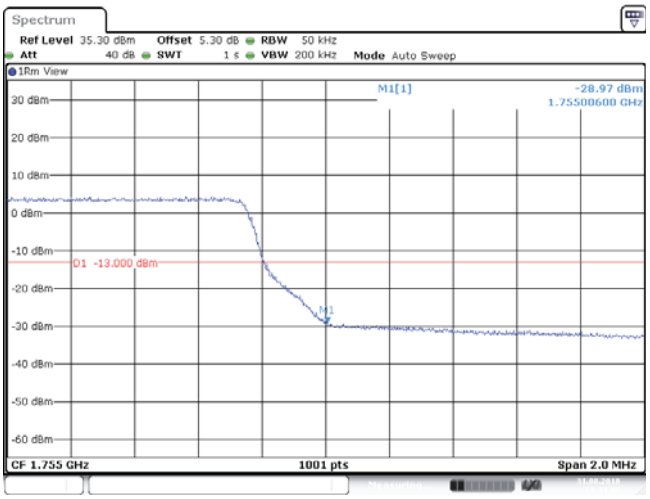

BAND4_10MHz_QPSK_20000_1RB#0

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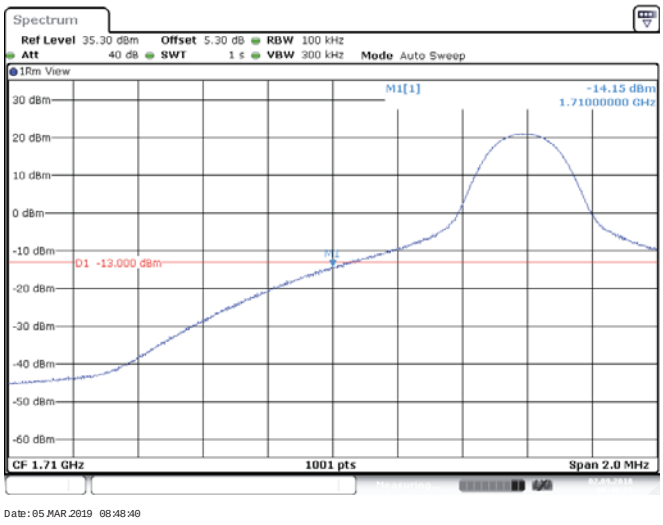

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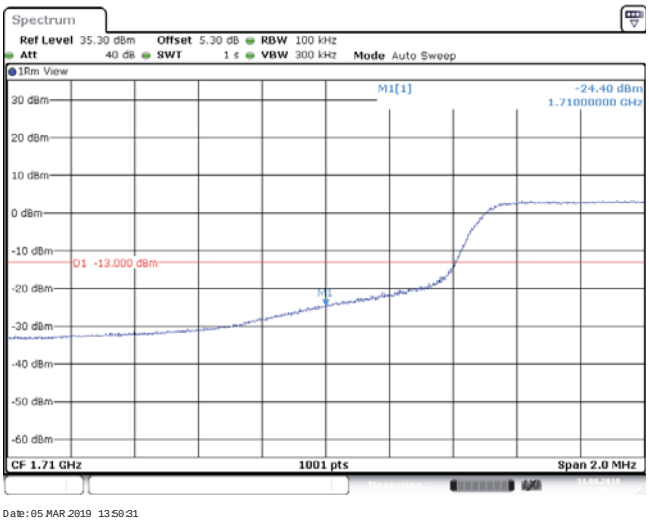

BAND4_10MHz_QPSK_20350_1RB#49

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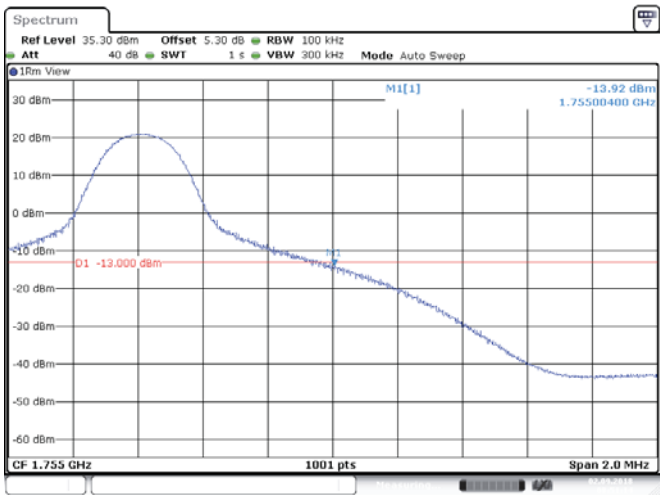

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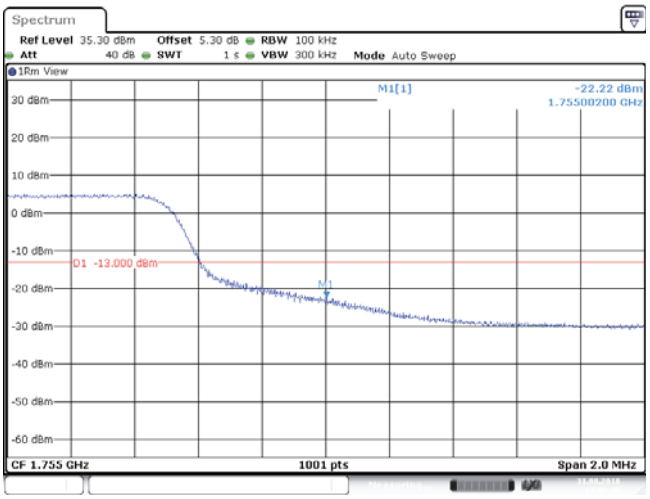

BAND4_10MHz_64QAM_20000_1RB#0

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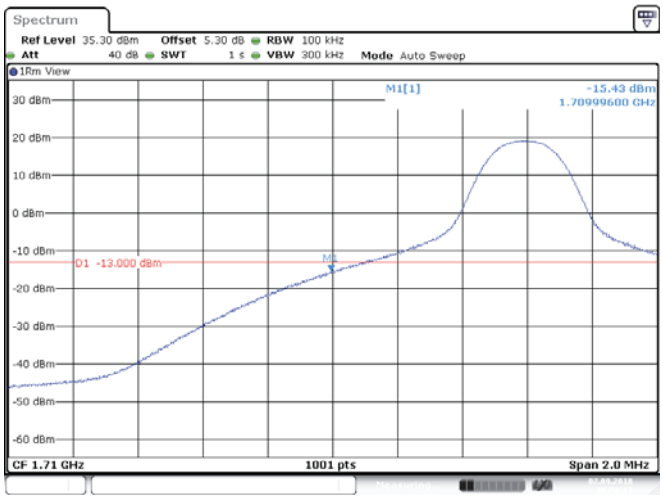

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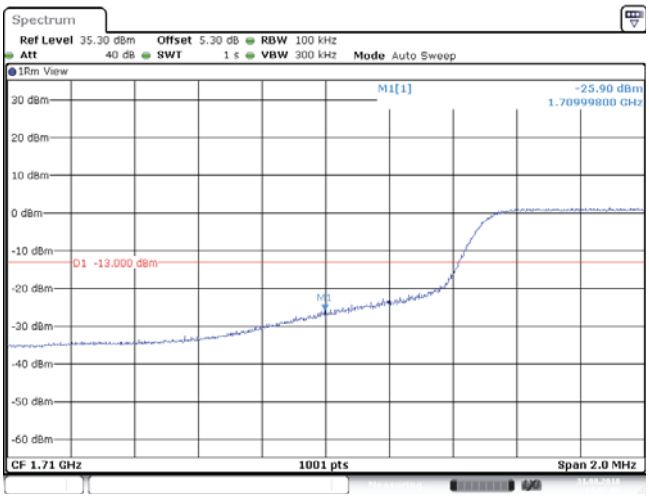

BAND4_10MHz_64QAM_20350_1RB#49

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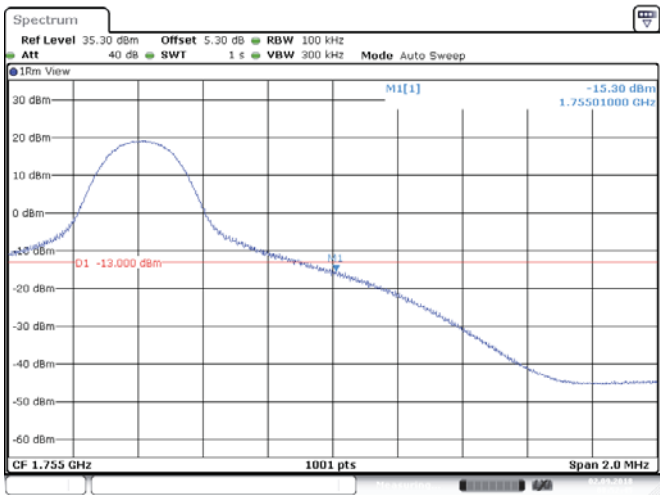

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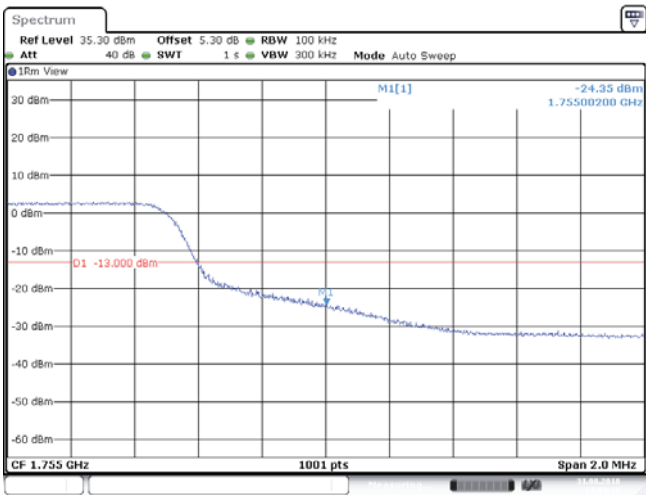

BAND4_10MHz_16QAM_20000_1RB#0

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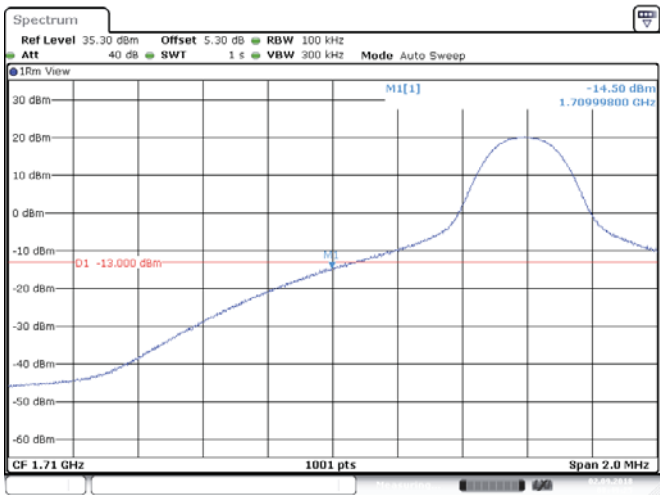

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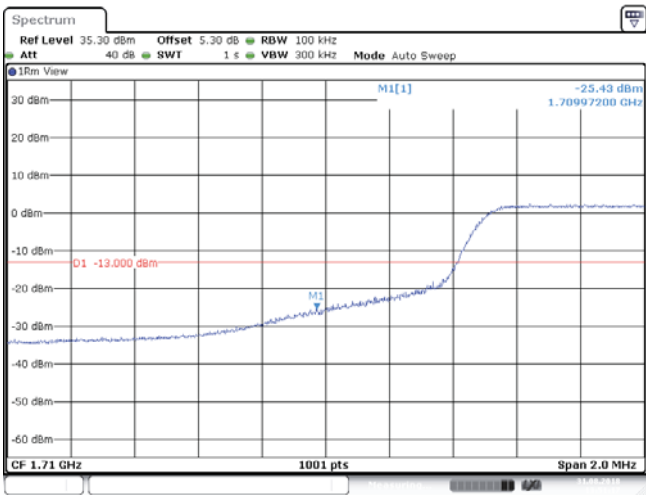

BAND4_10MHz_16QAM_20350_1RB#49

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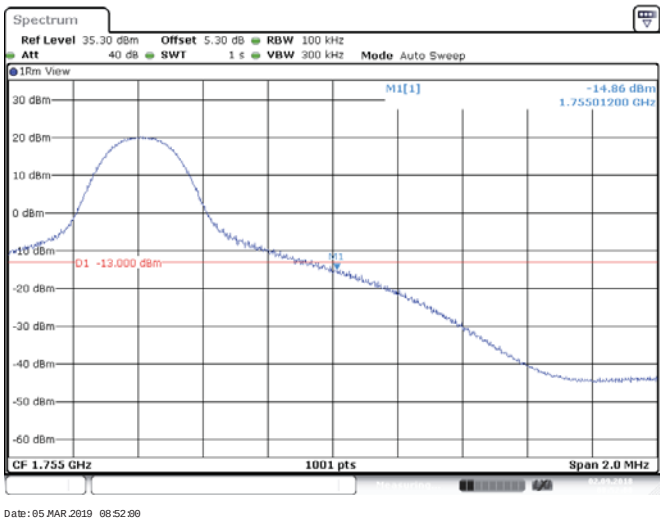

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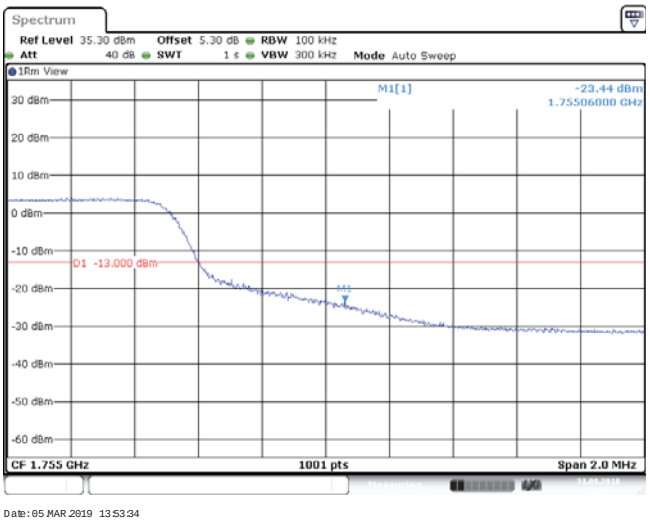

BAND4_15MHz_QPSK_20025_1RB#0

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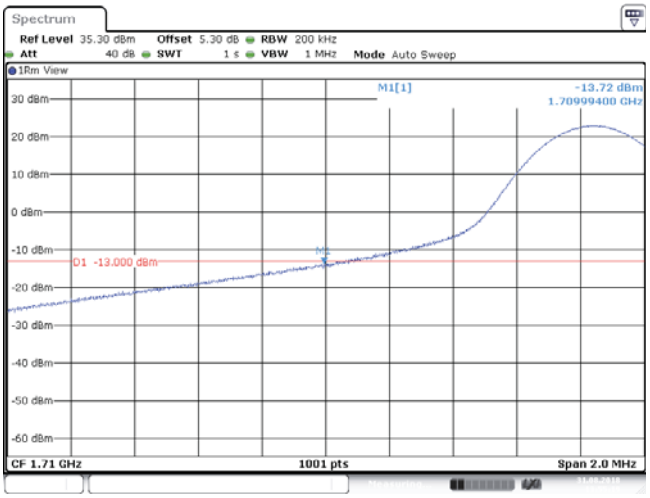

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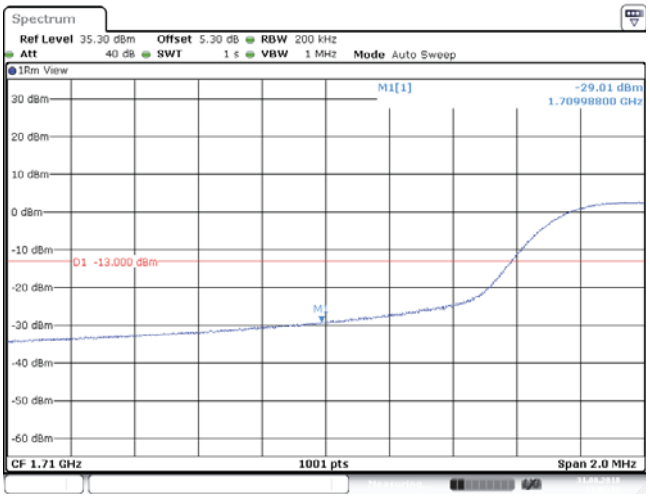

BAND4_15MHz_QPSK_20325_1RB#74

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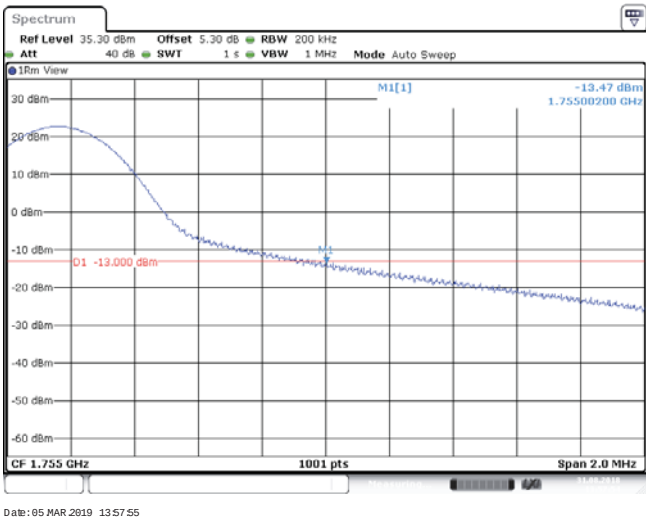

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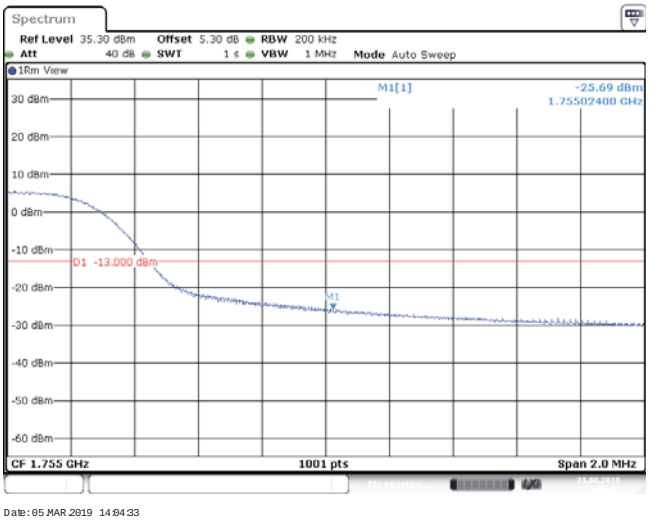

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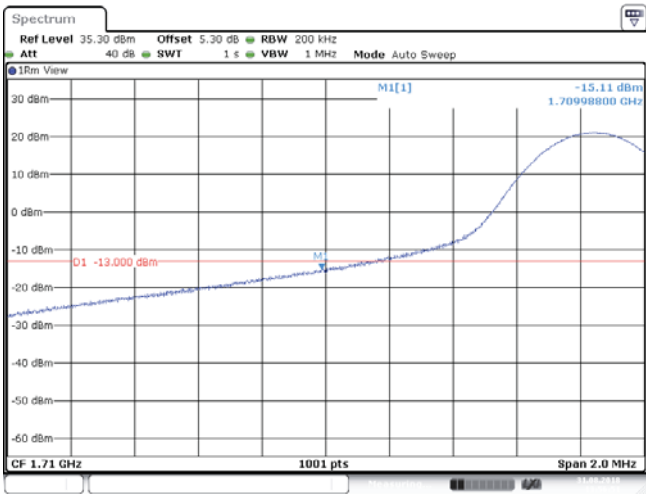

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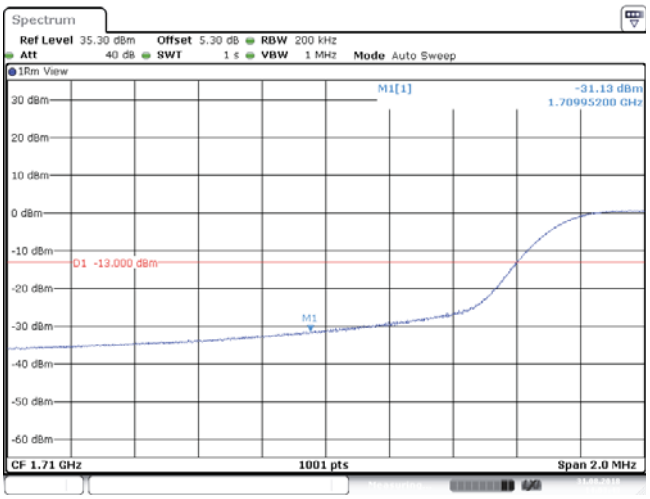

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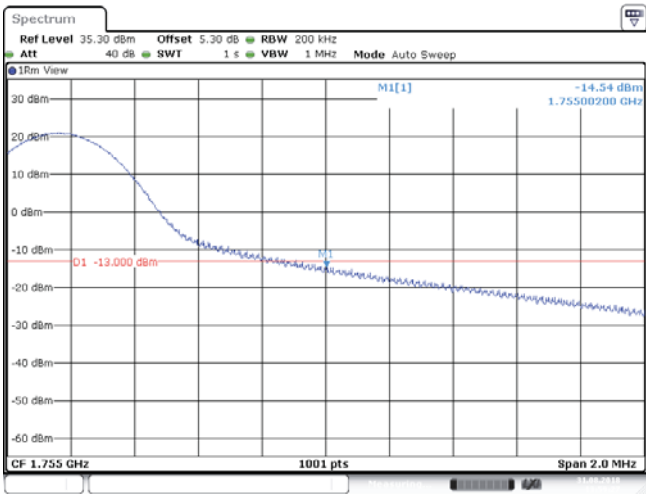

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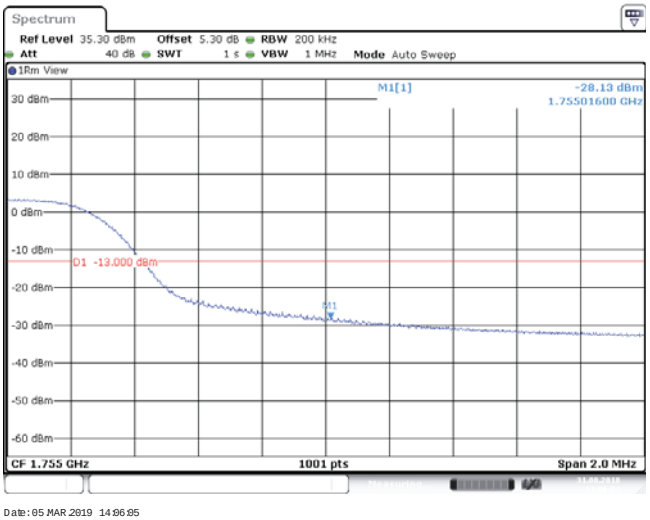

BAND4_15MHz_16QAM_20025_1RB#0

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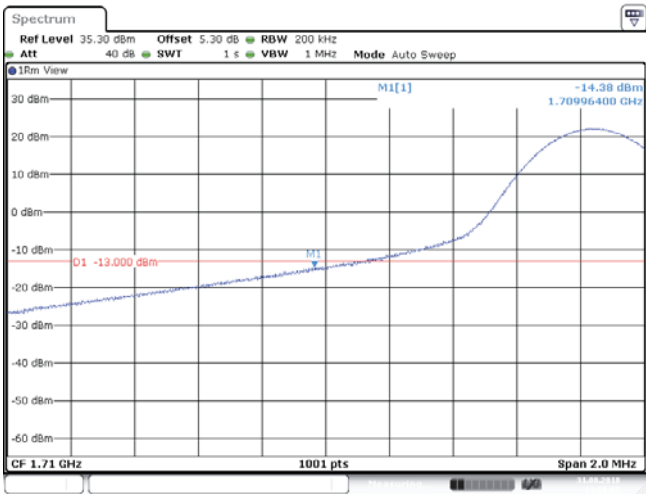

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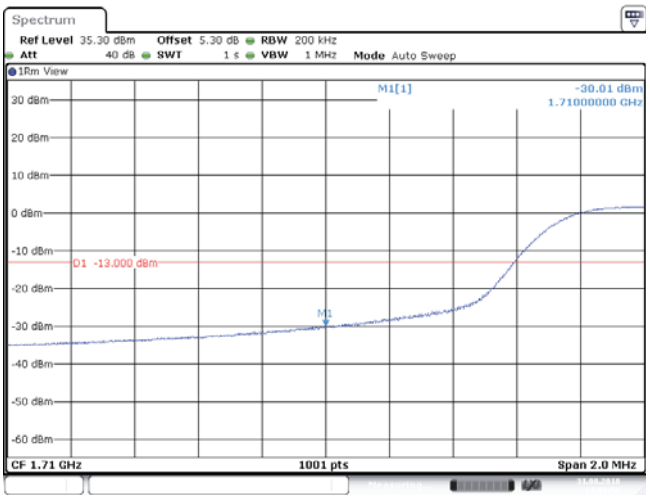

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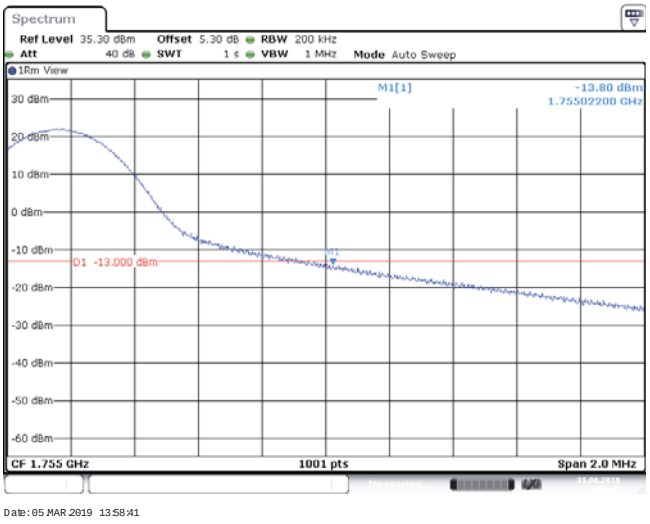

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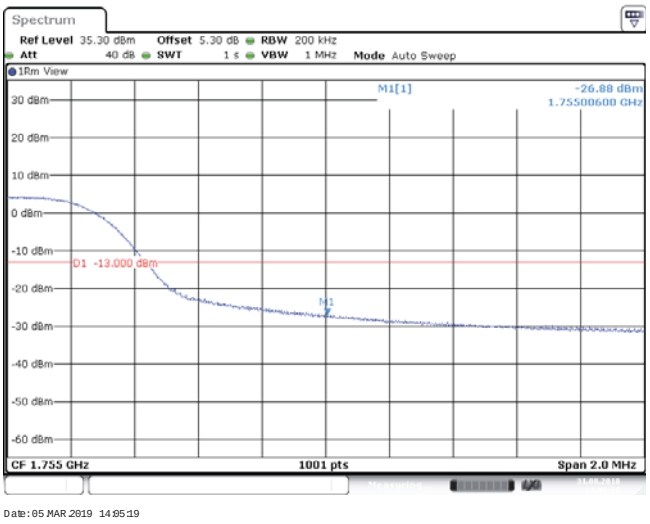

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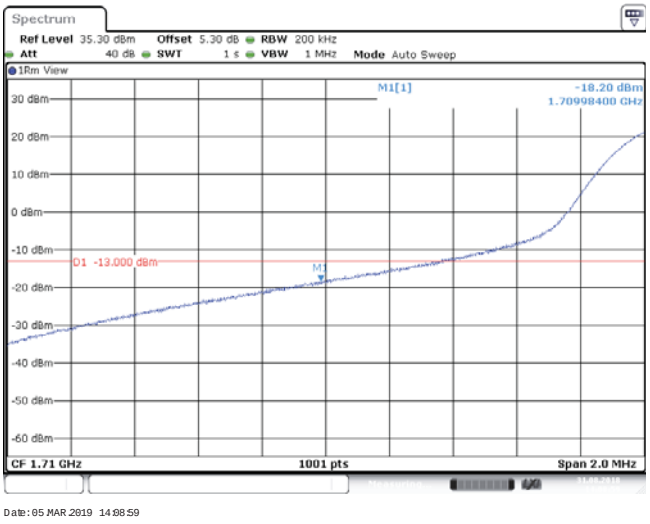

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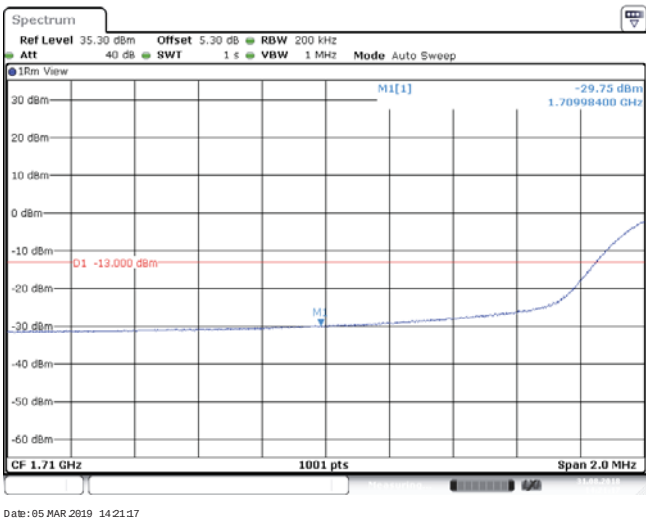

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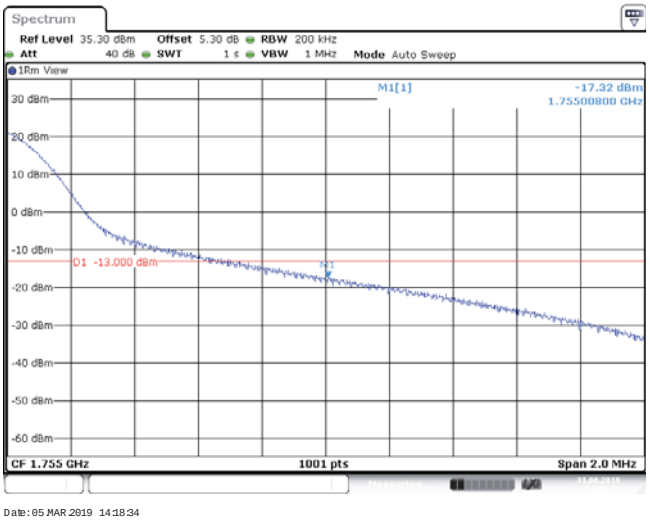

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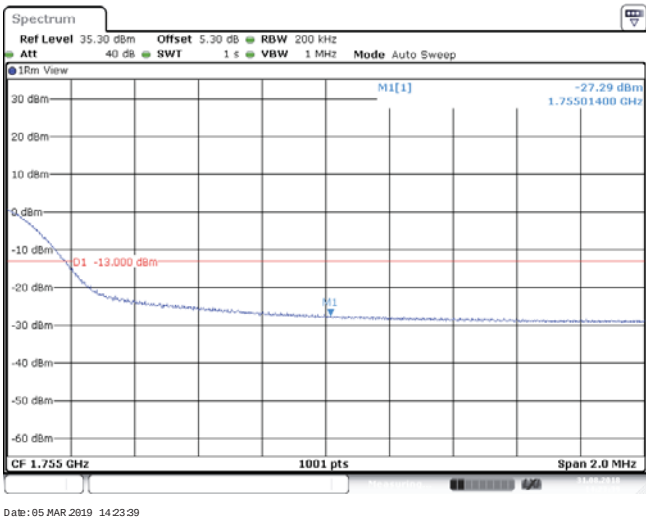

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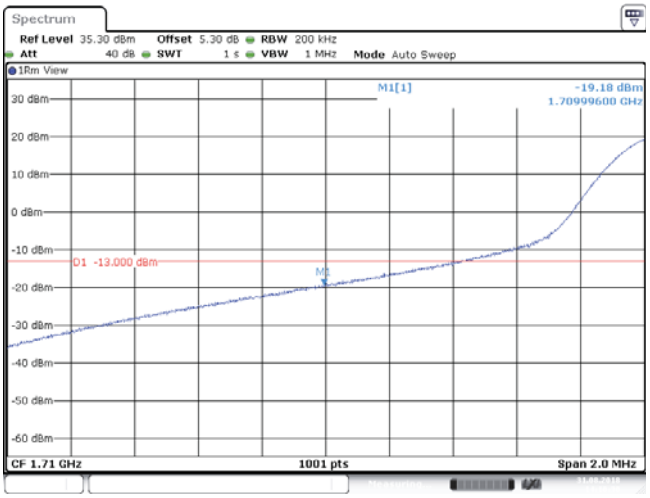

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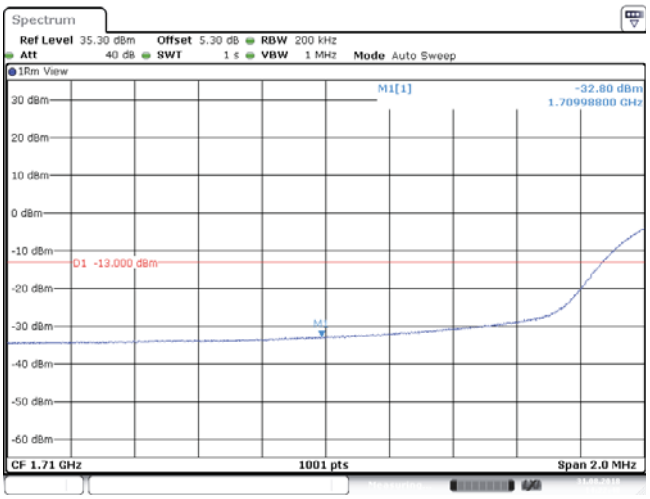

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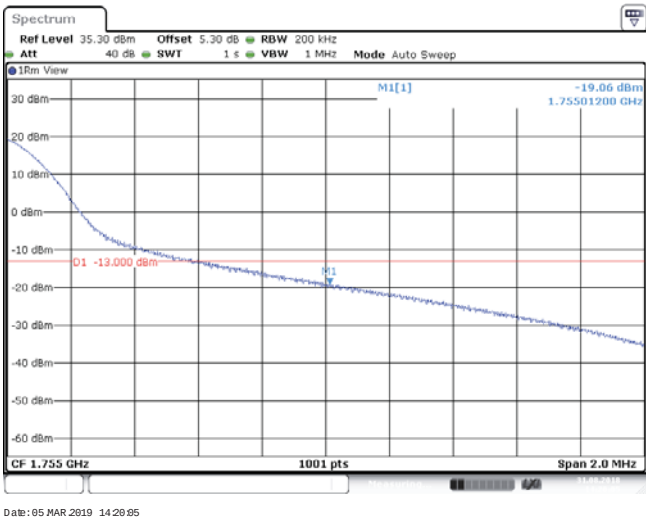

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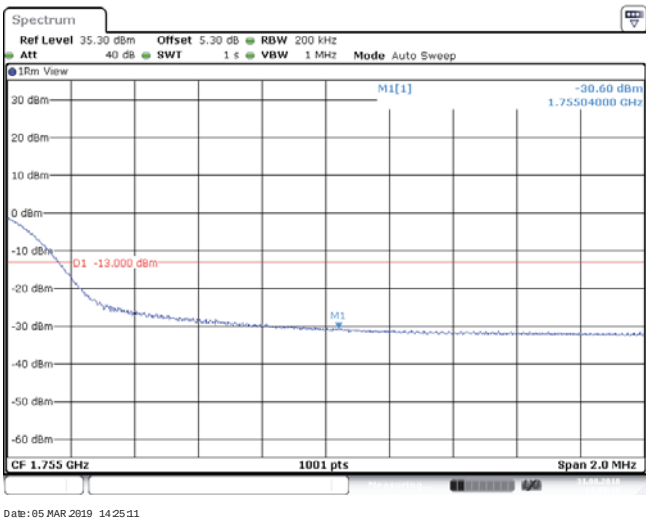

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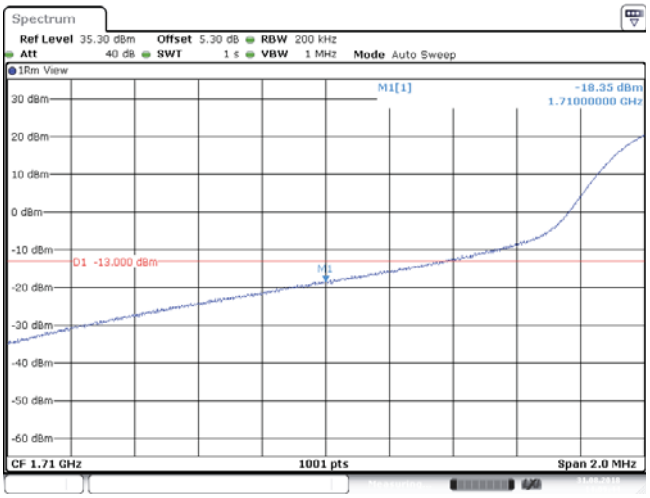

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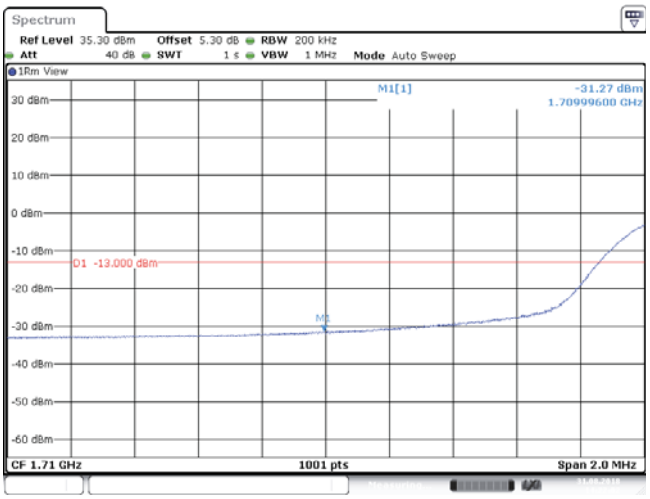

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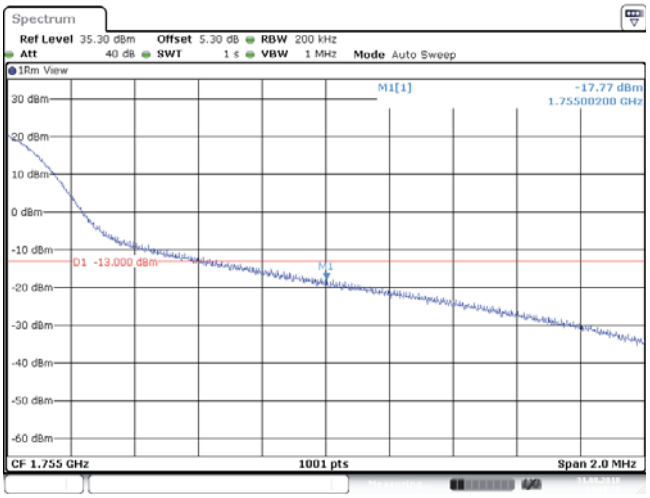

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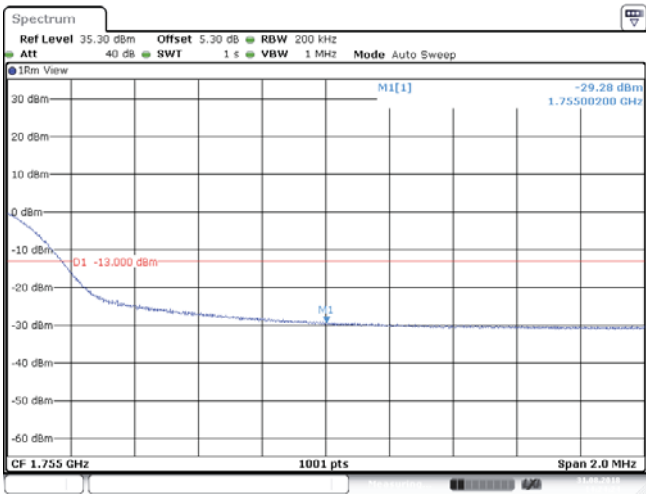

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6. Spurious Emission at Antenna Terminal

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

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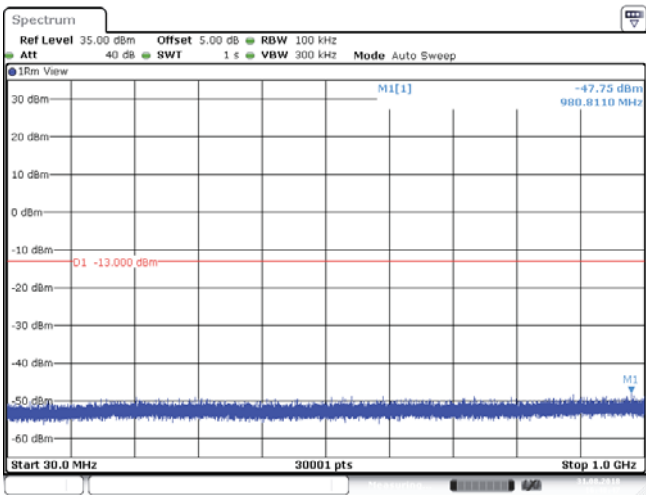

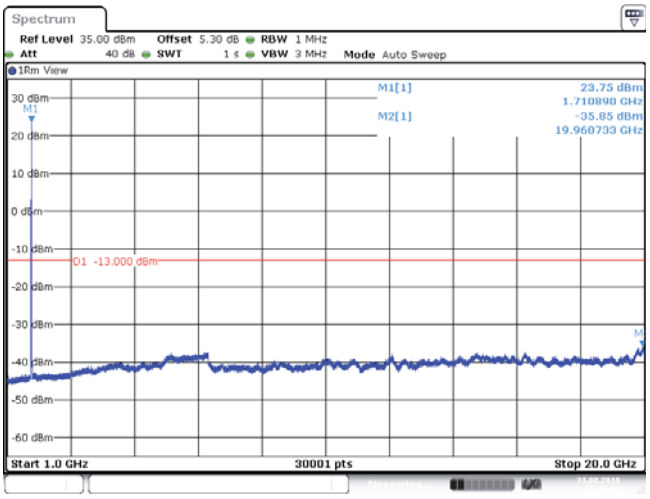

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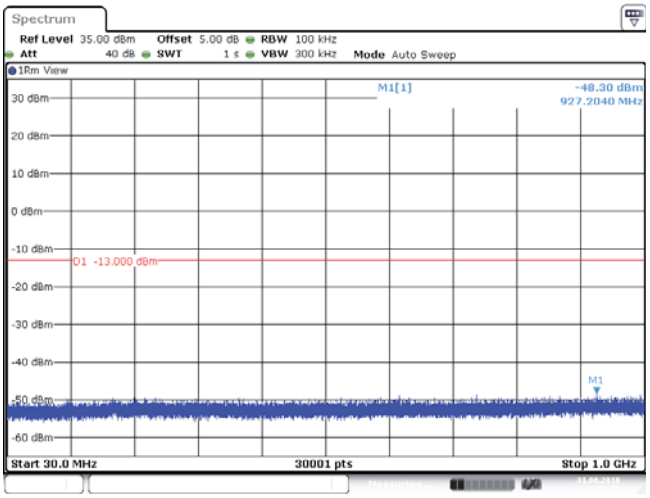

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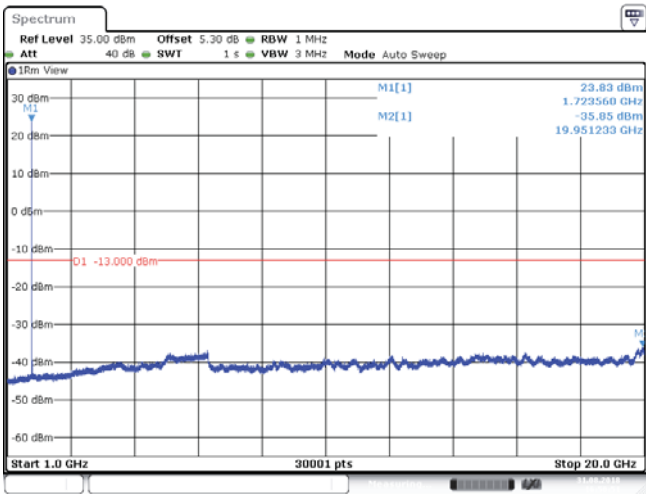

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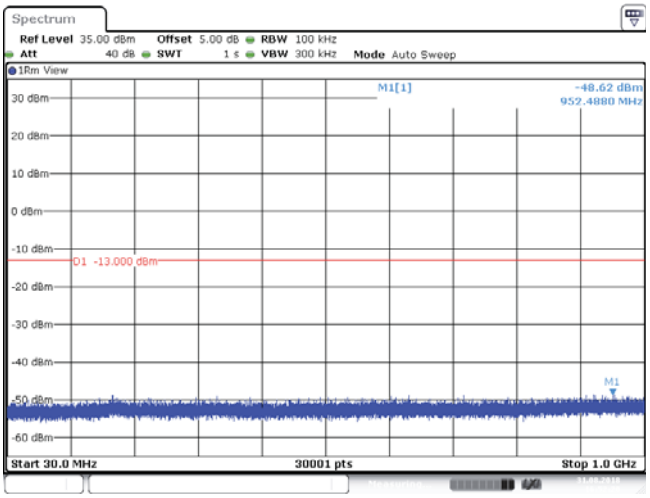

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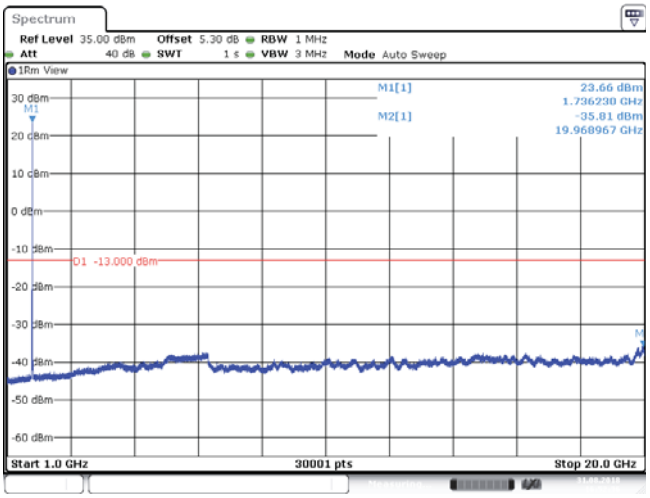

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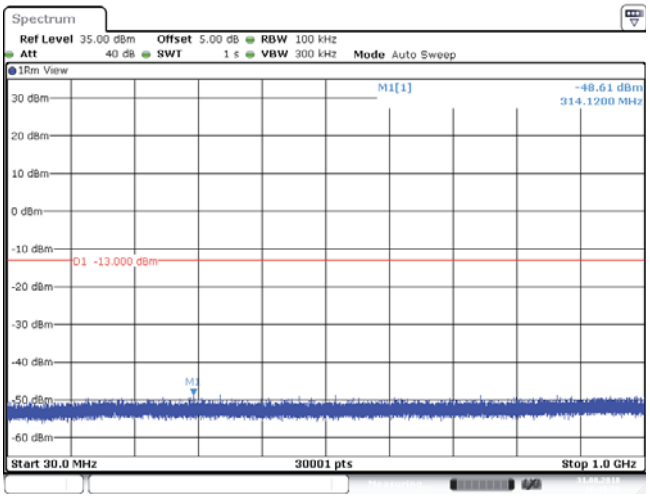

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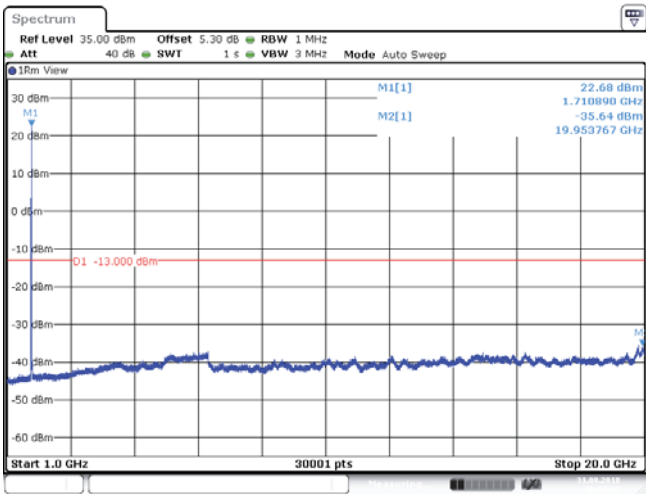

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BAND4_20MHz_64QAM_20175_1RB#0

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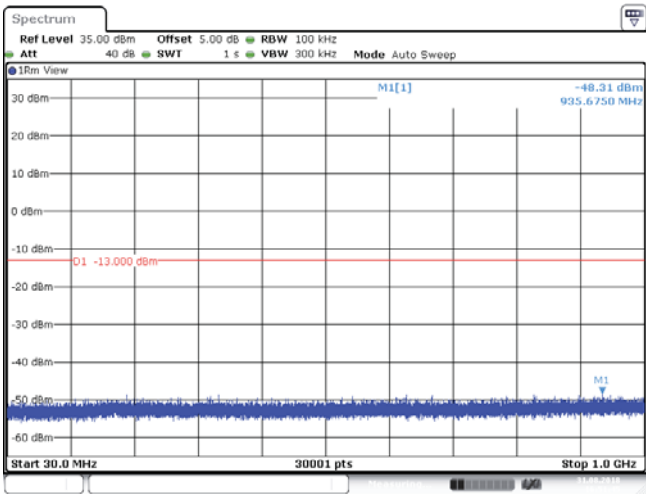

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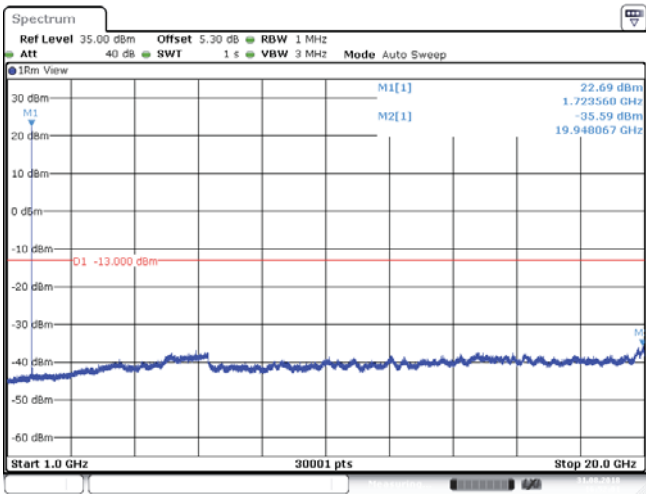

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BAND4_20MHz_64QAM_20300_1RB#0

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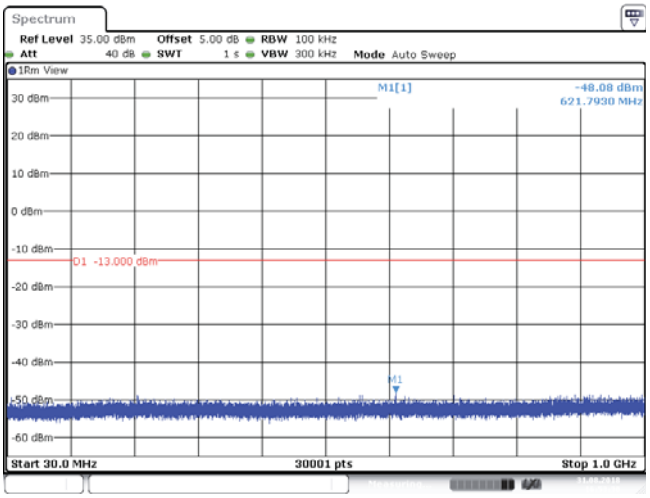

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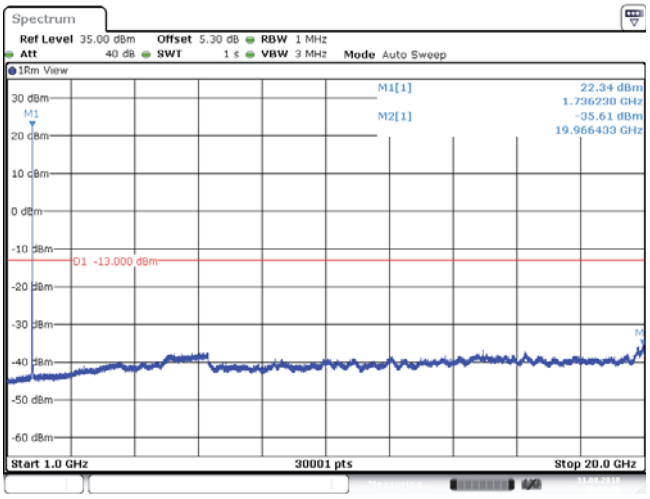

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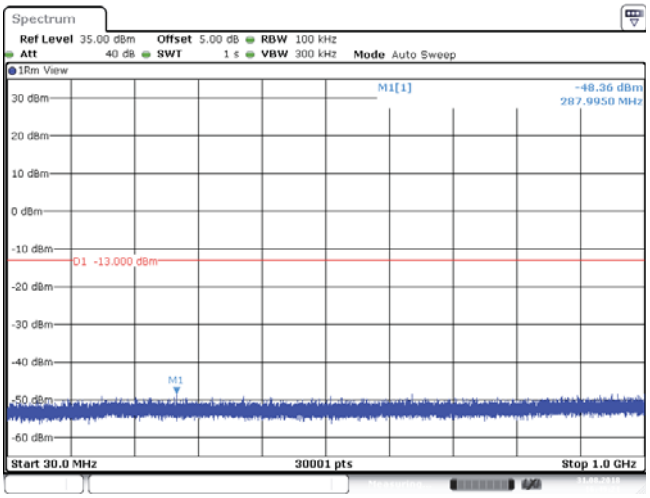

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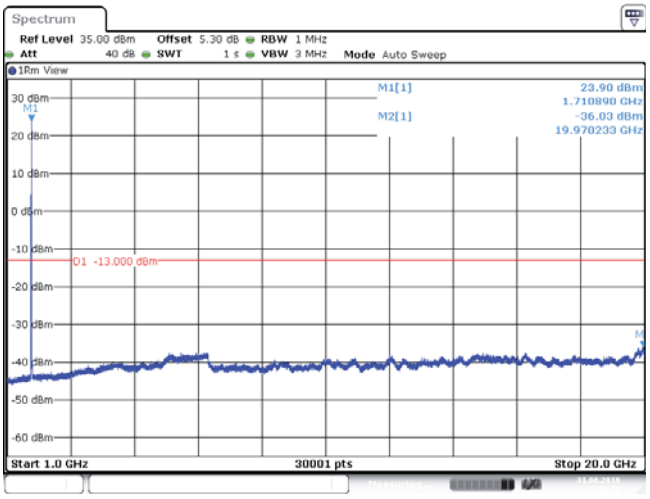

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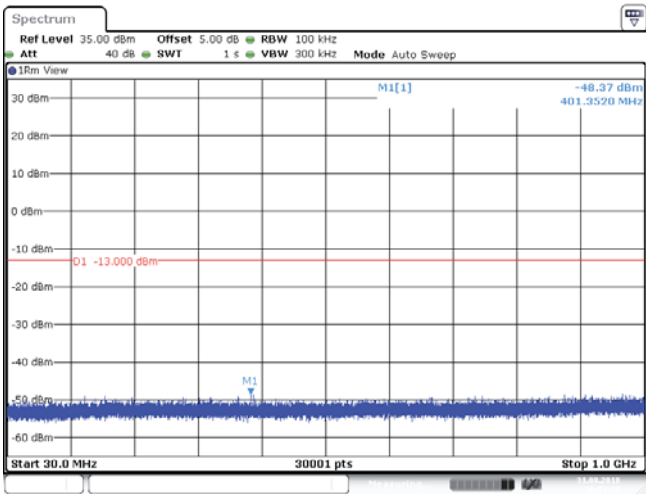

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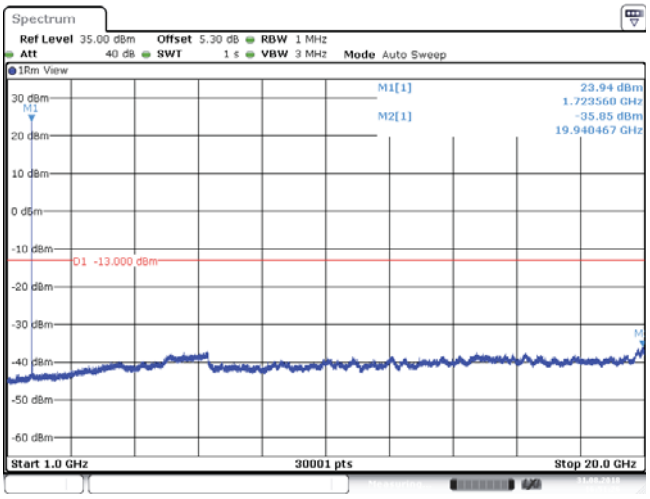

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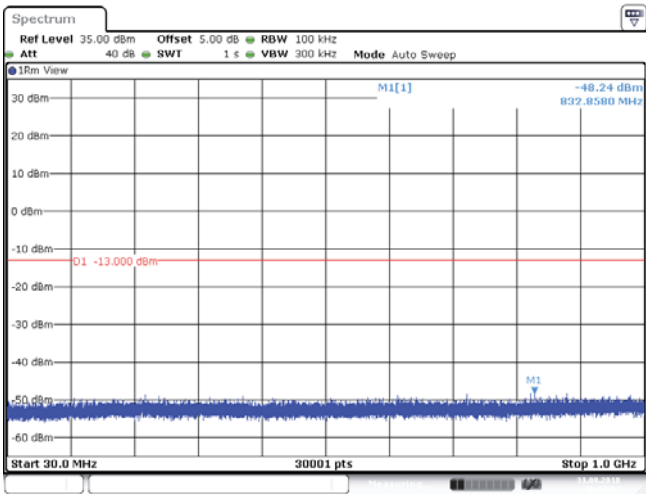

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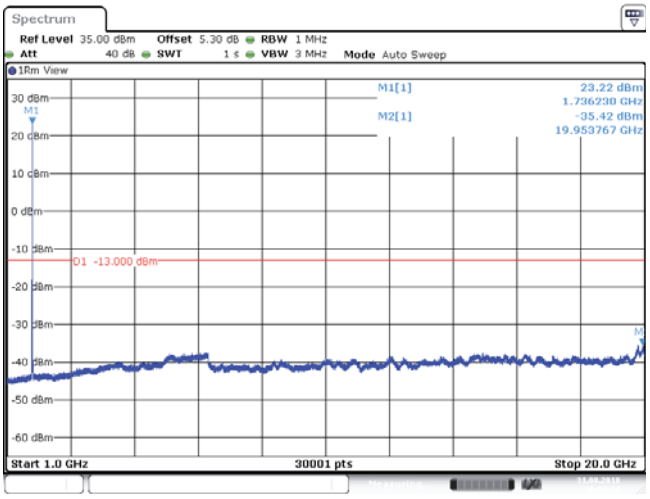

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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 4

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
64.100000	-81.69	-13.00	68.69	Vertical
104.300000	-65.39	-13.00	52.39	Vertical
1362.500000	-58.88	-13.00	45.88	Vertical
3762.775000	-68.52	-13.00	55.52	Vertical
5132.975000	-64.09	-13.00	51.09	Vertical
7800.575000	-64.18	-13.00	51.18	Vertical
62.550000	-77.98	-13.00	64.98	Horizontal
104.300000	-80.83	-13.00	67.83	Horizontal
1362.500000	-59.97	-13.00	46.97	Horizontal
4196.000000	-67.30	-13.00	54.30	Horizontal
5133.300000	-64.39	-13.00	51.39	Horizontal
8555.225000	-63.66	-13.00	50.66	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.200000	-81.78	-13.00	68.78	Vertical
104.250000	-65.34	-13.00	52.34	Vertical
1375.000000	-61.08	-13.00	48.08	Vertical
4020.175000	-67.76	-13.00	54.76	Vertical
5170.675000	-64.54	-13.00	51.54	Vertical
7950.725000	-63.72	-13.00	50.72	Vertical
62.400000	-77.77	-13.00	64.77	Horizontal
104.300000	-81.21	-13.00	68.21	Horizontal

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1375.000000	-60.95	-13.00	47.95	Horizontal
4452.100000	-67.36	-13.00	54.36	Horizontal
5170.350000	-65.38	-13.00	52.38	Horizontal
8617.625000	-62.92	-13.00	49.92	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.400000	-81.79	-13.00	68.79	Vertical
104.250000	-65.14	-13.00	52.14	Vertical
1387.500000	-60.62	-13.00	47.62	Vertical
3471.900000	-68.46	-13.00	55.46	Vertical
5208.050000	-63.77	-13.00	50.77	Vertical
8615.675000	-63.71	-13.00	50.71	Vertical
55.750000	-78.05	-13.00	65.05	Horizontal
104.300000	-80.97	-13.00	67.97	Horizontal
1387.500000	-60.80	-13.00	47.80	Horizontal
3870.675000	-68.60	-13.00	55.60	Horizontal
5208.050000	-64.62	-13.00	51.62	Horizontal
8680.350000	-63.37	-13.00	50.37	Horizontal

Remark:

1) The disturbance above 12.75GHz and 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.
2) We have tested all modulation and all Bandwidth , but only the worst case data presented 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
BAND4	20MHz	QPSK	20050	100RB#0	VL	NT	0.80	0.000465	±2.5	PASS
				100RB#0	VN	NT	0.90	0.000523	±2.5	PASS
				100RB#0	VH	NT	1.90	0.001105	±2.5	PASS
			20175	100RB#0	VL	NT	1.60	0.000924	±2.5	PASS
				100RB#0	VN	NT	2.90	0.001674	±2.5	PASS
				100RB#0	VH	NT	0.30	0.000173	±2.5	PASS
			20300	100RB#0	VL	NT	2.60	0.001490	±2.5	PASS
				100RB#0	VN	NT	1.50	0.000860	±2.5	PASS
				100RB#0	VH	NT	2.20	0.001261	±2.5	PASS
		64QAM	20050	100RB#0	VL	NT	1.10	0.000640	±2.5	PASS
				100RB#0	VN	NT	-0.10	-0.000058	±2.5	PASS
				100RB#0	VH	NT	3.00	0.001744	±2.5	PASS
			20175	100RB#0	VL	NT	2.60	0.001501	±2.5	PASS
				100RB#0	VN	NT	1.90	0.001097	±2.5	PASS
				100RB#0	VH	NT	2.00	0.001154	±2.5	PASS
			20300	100RB#0	VL	NT	0.30	0.000172	±2.5	PASS
				100RB#0	VN	NT	1.10	0.000630	±2.5	PASS
				100RB#0	VH	NT	2.30	0.001318	±2.5	PASS
		16QAM	20050	100RB#0	VL	NT	2.30	0.001337	±2.5	PASS
				100RB#0	VN	NT	3.40	0.001977	±2.5	PASS
				100RB#0	VH	NT	2.70	0.001570	±2.5	PASS
			20175	100RB#0	VL	NT	0.80	0.000462	±2.5	PASS
				100RB#0	VN	NT	3.00	0.001732	±2.5	PASS
				100RB#0	VH	NT	3.30	0.001905	±2.5	PASS
			20300	100RB#0	VL	NT	2.50	0.001433	±2.5	PASS
				100RB#0	VN	NT	2.20	0.001261	±2.5	PASS
				100RB#0	VH	NT	0.70	0.000401	±2.5	PASS

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8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND4	20MHz	QPSK	20050	100RB#0	NV	-30	2.50	0.001453	±2.5	PASS
				100RB#0	NV	-20	-1.30	-0.000756	±2.5	PASS
				100RB#0	NV	-10	2.30	0.001337	±2.5	PASS
				100RB#0	NV	0	0.50	0.000291	±2.5	PASS
				100RB#0	NV	10	0.70	0.000407	±2.5	PASS
				100RB#0	NV	20	2.20	0.001279	±2.5	PASS
				100RB#0	NV	30	2.10	0.001221	±2.5	PASS
				100RB#0	NV	40	2.50	0.001453	±2.5	PASS
				100RB#0	NV	50	0.50	0.000291	±2.5	PASS
			20175	100RB#0	NV	-30	2.80	0.001616	±2.5	PASS
				100RB#0	NV	-20	1.60	0.000924	±2.5	PASS
				100RB#0	NV	-10	1.90	0.001097	±2.5	PASS
				100RB#0	NV	0	2.30	0.001328	±2.5	PASS
				100RB#0	NV	10	2.20	0.001270	±2.5	PASS
				100RB#0	NV	20	2.70	0.001558	±2.5	PASS
				100RB#0	NV	30	1.90	0.001097	±2.5	PASS
				100RB#0	NV	40	2.30	0.001328	±2.5	PASS
				100RB#0	NV	50	2.00	0.001154	±2.5	PASS
			20300	100RB#0	NV	-30	2.70	0.001547	±2.5	PASS
				100RB#0	NV	-20	1.10	0.000630	±2.5	PASS
				100RB#0	NV	-10	1.80	0.001032	±2.5	PASS
				100RB#0	NV	0	2.20	0.001261	±2.5	PASS
				100RB#0	NV	10	2.10	0.001203	±2.5	PASS
				100RB#0	NV	20	1.40	0.000802	±2.5	PASS
				100RB#0	NV	30	1.30	0.000745	±2.5	PASS
				100RB#0	NV	40	2.70	0.001547	±2.5	PASS
				100RB#0	NV	50	0.50	0.000287	±2.5	PASS
		16QAM	20050	100RB#0	NV	-30	1.70	0.000988	±2.5	PASS
				100RB#0	NV	-20	1.60	0.000930	±2.5	PASS
				100RB#0	NV	-10	2.20	0.001279	±2.5	PASS
				100RB#0	NV	0	0.90	0.000523	±2.5	PASS
				100RB#0	NV	10	0.80	0.000465	±2.5	PASS
				100RB#0	NV	20	1.40	0.000814	±2.5	PASS
				100RB#0	NV	30	1.90	0.001105	±2.5	PASS
				100RB#0	NV	40	3.30	0.001919	±2.5	PASS
				100RB#0	NV	50	2.60	0.001512	±2.5	PASS
			20175	100RB#0	NV	-30	1.20	0.000693	±2.5	PASS
				100RB#0	NV	-20	0.60	0.000346	±2.5	PASS

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				100RB#0	NV	-10	0.60	0.000346	±2.5	PASS
				100RB#0	NV	0	0.80	0.000462	±2.5	PASS
				100RB#0	NV	10	2.60	0.001501	±2.5	PASS
				100RB#0	NV	20	1.60	0.000924	±2.5	PASS
				100RB#0	NV	30	0.90	0.000519	±2.5	PASS
				100RB#0	NV	40	2.30	0.001328	±2.5	PASS
				100RB#0	NV	50	0.10	0.000058	±2.5	PASS
			20300	100RB#0	NV	-30	2.00	0.001146	±2.5	PASS
				100RB#0	NV	-20	2.70	0.001547	±2.5	PASS
				100RB#0	NV	-10	0.10	0.000057	±2.5	PASS
				100RB#0	NV	0	1.10	0.000630	±2.5	PASS
				100RB#0	NV	10	2.00	0.001146	±2.5	PASS
				100RB#0	NV	20	2.20	0.001261	±2.5	PASS
				100RB#0	NV	30	0.20	0.000115	±2.5	PASS
				100RB#0	NV	40	1.70	0.000974	±2.5	PASS
				100RB#0	NV	50	1.60	0.000917	±2.5	PASS
		64QAM	20050	100RB#0	NV	-30	2.50	0.001453	±2.5	PASS
				100RB#0	NV	-20	3.00	0.001744	±2.5	PASS
				100RB#0	NV	-10	1.80	0.001047	±2.5	PASS
				100RB#0	NV	0	2.20	0.001279	±2.5	PASS
				100RB#0	NV	10	0.30	0.000174	±2.5	PASS
				100RB#0	NV	20	1.20	0.000698	±2.5	PASS
				100RB#0	NV	30	1.10	0.000640	±2.5	PASS
				100RB#0	NV	40	3.80	0.002209	±2.5	PASS
				100RB#0	NV	50	1.50	0.000872	±2.5	PASS
			20175	100RB#0	NV	-30	3.00	0.001732	±2.5	PASS
				100RB#0	NV	-20	3.30	0.001905	±2.5	PASS
				100RB#0	NV	-10	2.90	0.001674	±2.5	PASS
				100RB#0	NV	0	2.80	0.001616	±2.5	PASS
				100RB#0	NV	10	1.60	0.000924	±2.5	PASS
				100RB#0	NV	20	1.50	0.000866	±2.5	PASS
				100RB#0	NV	30	1.60	0.000924	±2.5	PASS
				100RB#0	NV	40	3.50	0.002020	±2.5	PASS
				100RB#0	NV	50	1.20	0.000693	±2.5	PASS
			20300	100RB#0	NV	-30	3.00	0.001719	±2.5	PASS
				100RB#0	NV	-20	2.70	0.001547	±2.5	PASS
				100RB#0	NV	-10	1.20	0.000688	±2.5	PASS
				100RB#0	NV	0	-0.10	-0.000057	±2.5	PASS
				100RB#0	NV	10	1.80	0.001032	±2.5	PASS
				100RB#0	NV	20	2.10	0.001203	±2.5	PASS
				100RB#0	NV	30	2.90	0.001662	±2.5	PASS
				100RB#0	NV	40	1.90	0.001089	±2.5	PASS
				100RB#0	NV	50	2.20	0.001261	±2.5	PASS

The End

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