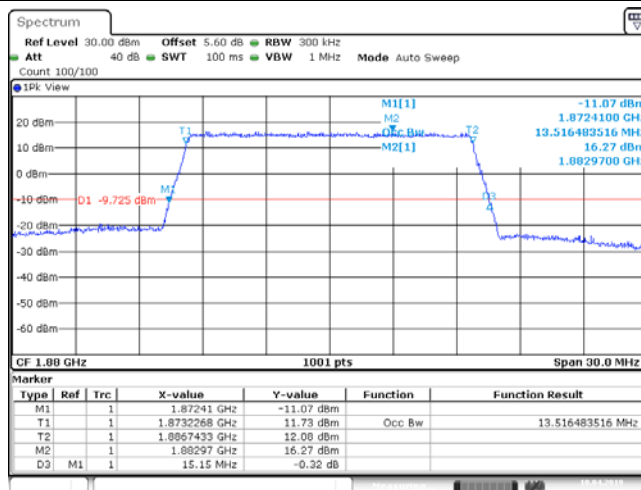


Date: 10 APR 2019 13:24:43

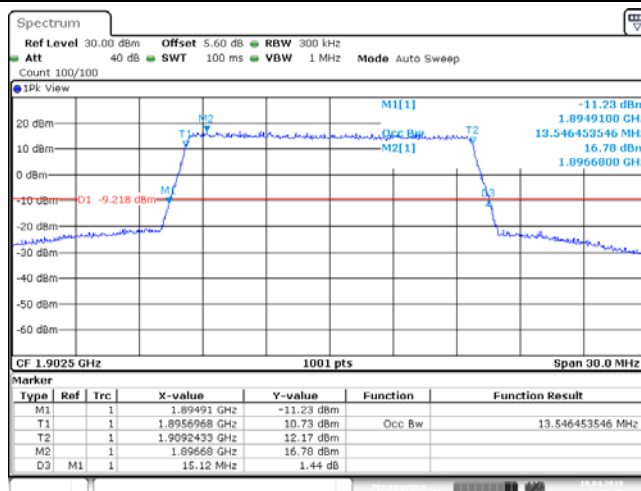
Band2_15MHz_16QAM_18900_75RB#0



Date: 10 APR 2019 13:25:45

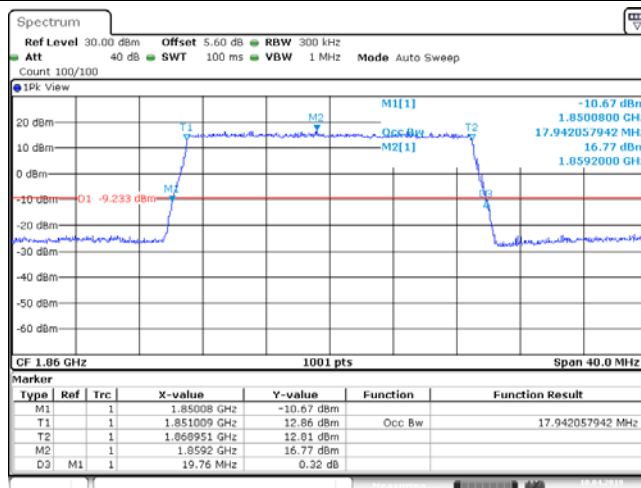
Band2_15MHz_16QAM_19125_75RB#0





Date: 10 APR 2019 13:26:46

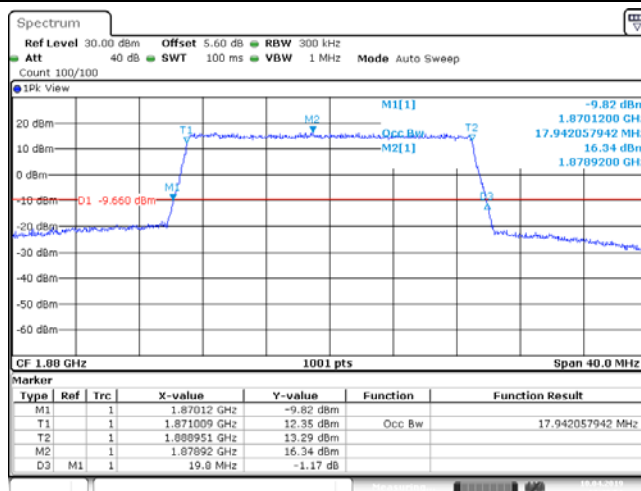
Band2_20MHz_QPSK_18700_100RB#0



Date: 10 APR 2019 13:29:50

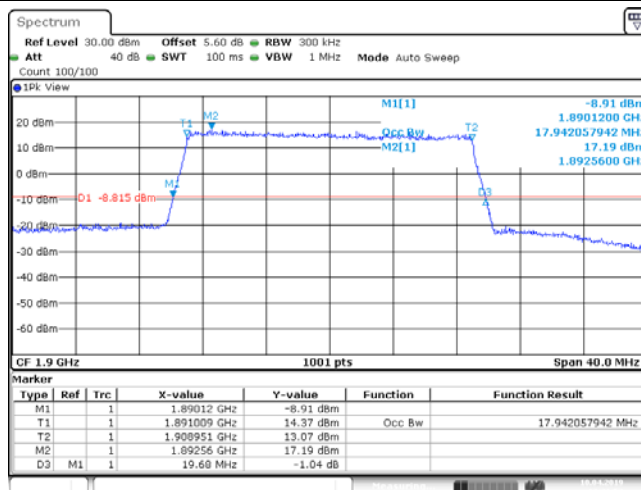
Band2_20MHz_QPSK_18900_100RB#0





Date: 10 APR 2019 13:30:52

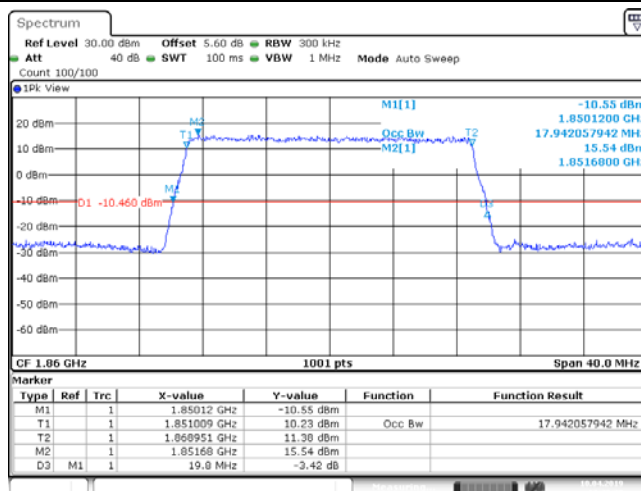
Band2_20MHz_QPSK_19100_100RB#0



Date: 10 APR 2019 13:31:54

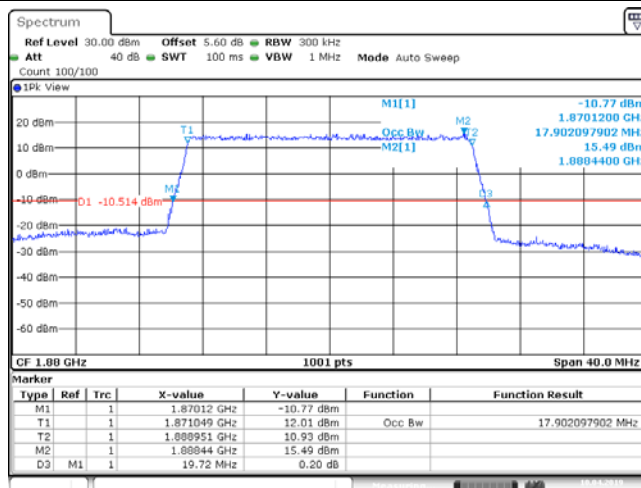
Band2_20MHz_64QAM_18700_100RB#0





Date: 10 APR 2019 13:30:29

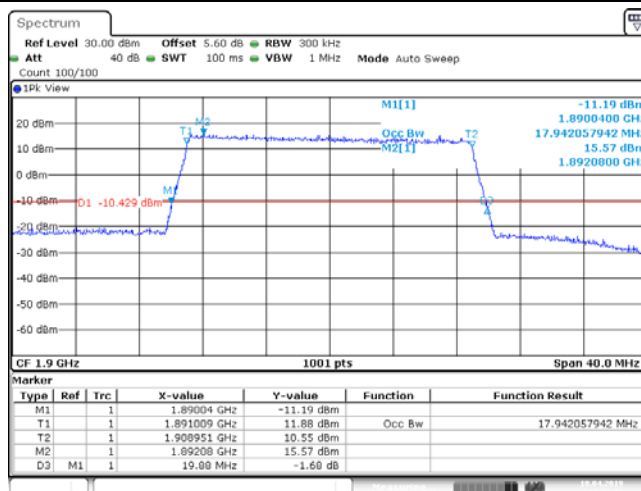
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Date: 10 APR 2019 13:31:32

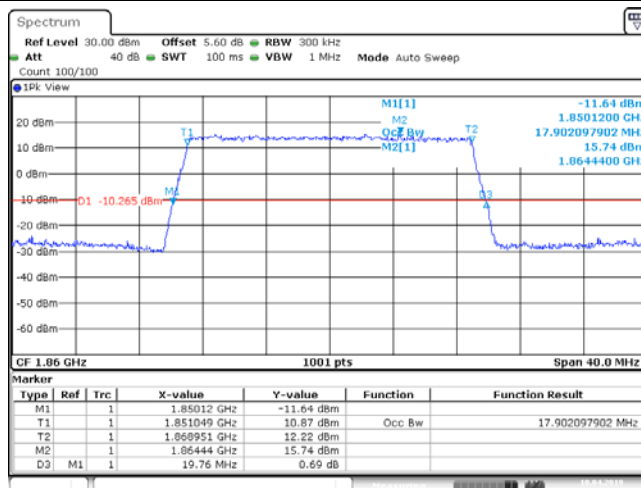
Band2_20MHz_64QAM_19100_100RB#0





Date: 10 APR 2019 13:32:33

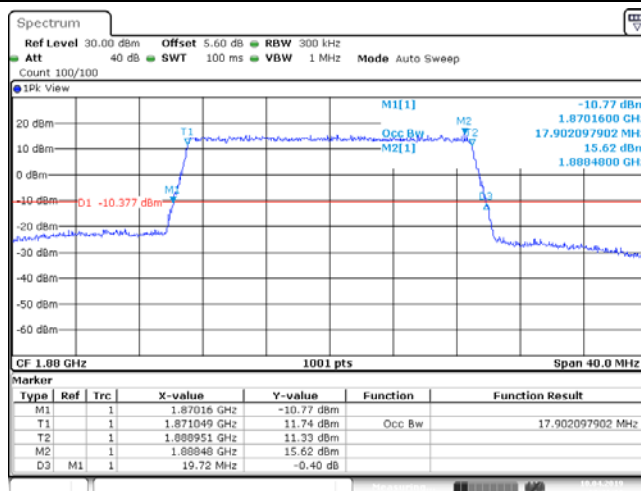
Band2_20MHz_16QAM_18700_100RB#0



Date: 10 APR 2019 13:30:09

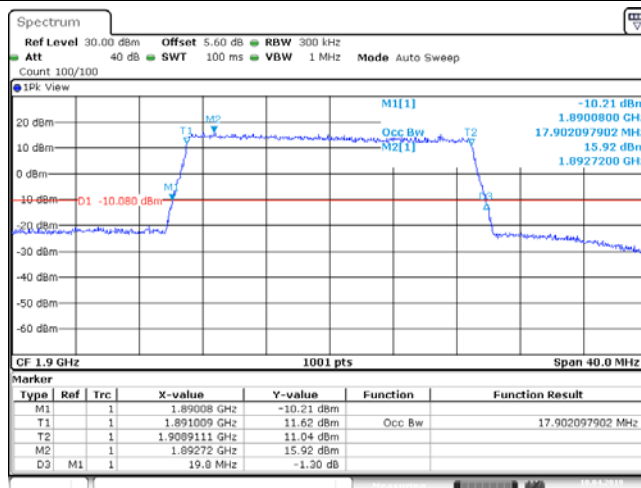
Band2_20MHz_16QAM_18900_100RB#0





Date: 10 APR 2019 13:31:12

Band2_20MHz_16QAM_19100_100RB#0



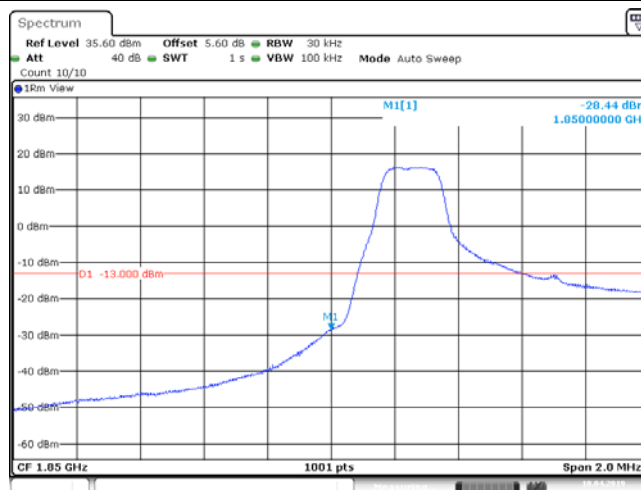
Date: 10 APR 2019 13:32:13



5. Band Edge Compliance

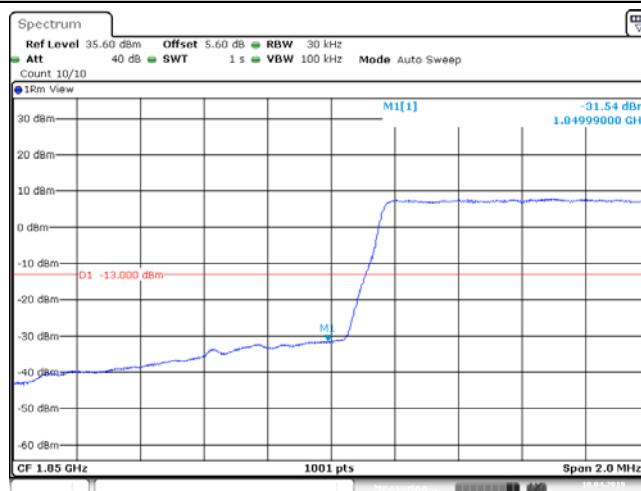
5.1. Test Plots

Band2 1.4MHz QPSK 18607 1RB#0



Date: 10 APR 2019 13:32:59

Band2 1.4MHz QPSK 18607 6RB#0



Date: 10 APR 2019 13:33:57

Band2 1.4MHz QPSK 19193 1RB#5



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Shenzhen Branch Testing Center EEC Laboratory.

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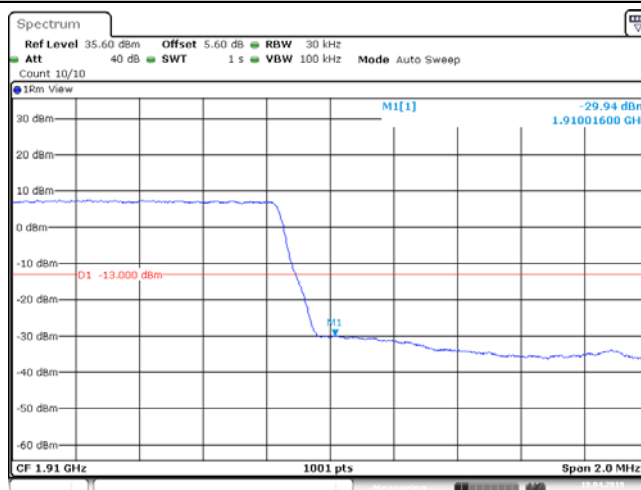
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Date: 10 APR 2019 13:35:00

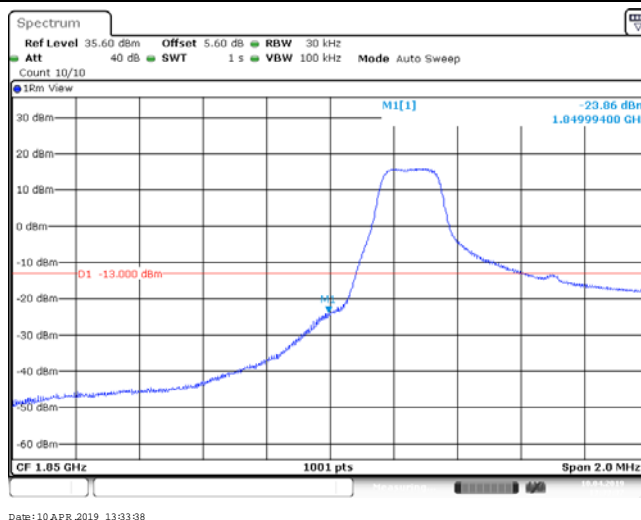
Band2_1.4MHz_QPSK_19193_6RB#0



Date: 10 APR 2019 13:35:58

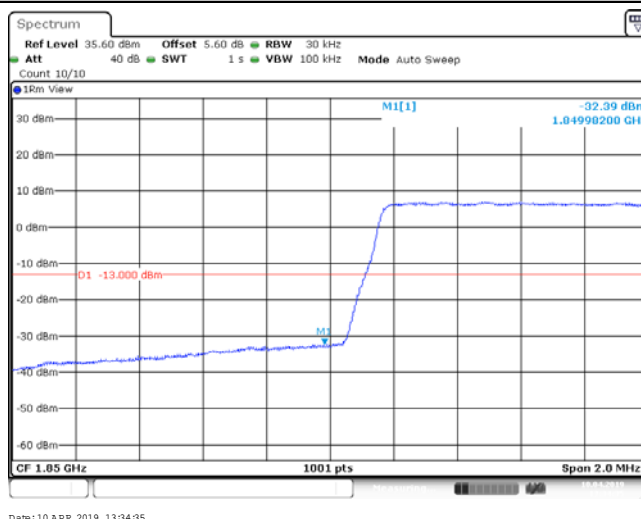
Band2_1.4MHz_64QAM_18607_1RB#0





Date: 10 APR. 2019 13:33:38

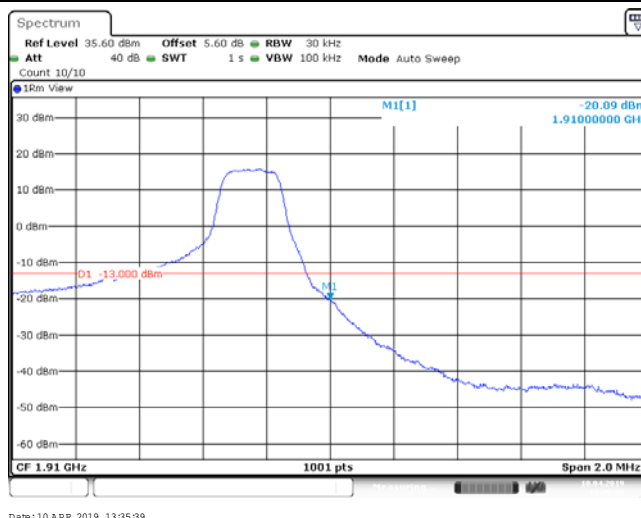
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Date: 10 APR. 2019 13:34:35

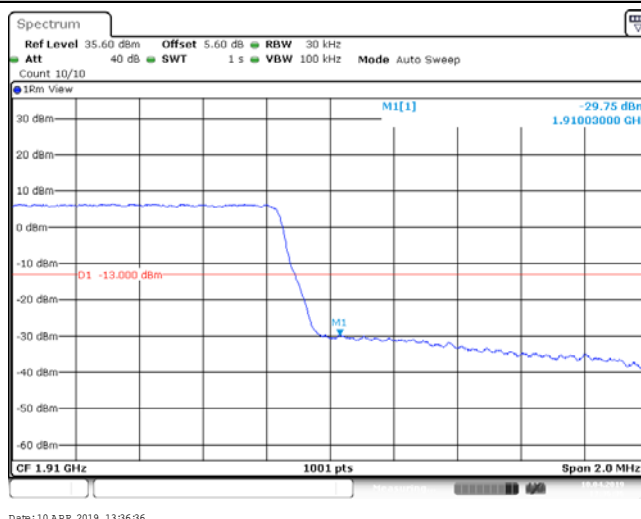
Band2_1.4MHz_64QAM_19193_1RB#5





Date: 10 APR. 2019 13:35:39

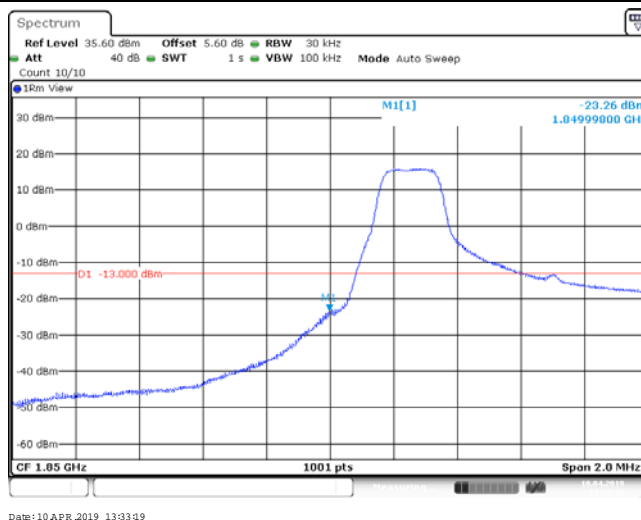
Band2_1.4MHz_64QAM_19193_6RB#0



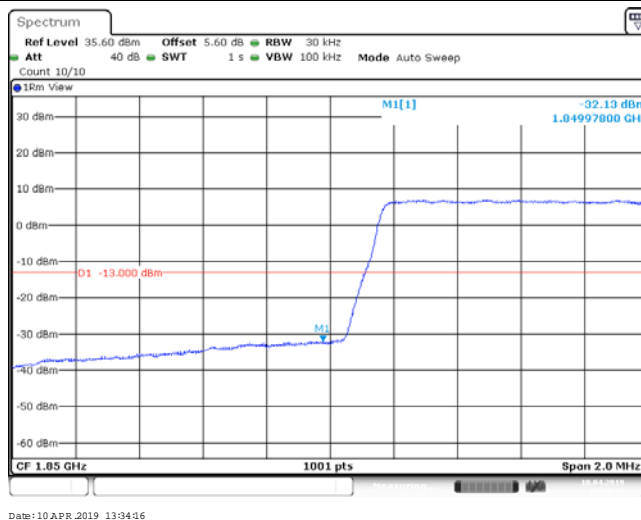
Date: 10 APR. 2019 13:36:36

Band2_1.4MHz_16QAM_18607_1RB#0



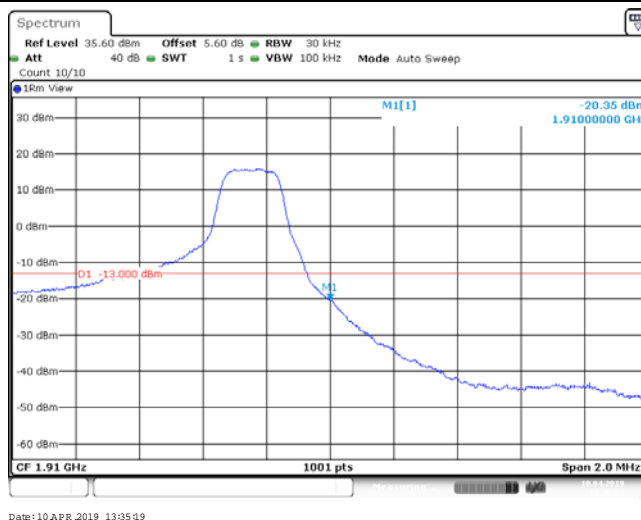


Band2_1.4MHz_16QAM_18607_6RB#0

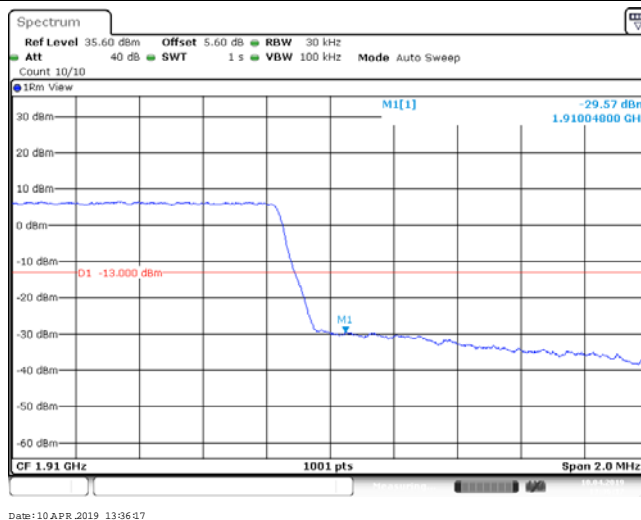


Band2_1.4MHz_16QAM_19193_1RB#5





Band2_1.4MHz_16QAM_19193_6RB#0



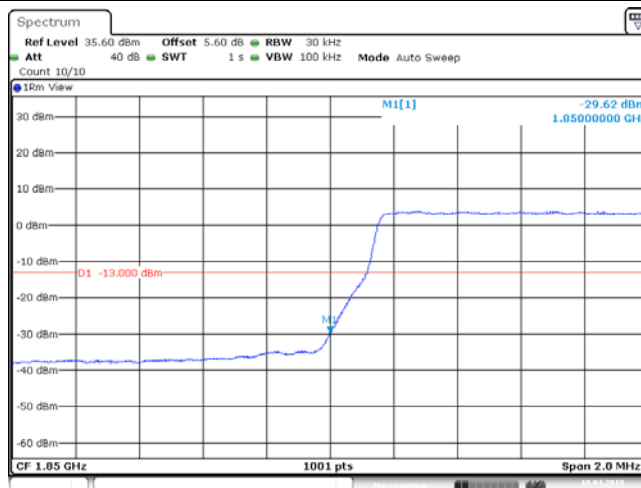
Band2_3MHz_QPSK_18615_1RB#0





Date: 10 APR. 2019 13:38:21

Band2_3MHz_QPSK_18615_15RB#0



Date: 10 APR. 2019 13:39:19

Band2_3MHz_QPSK_19185_1RB#14



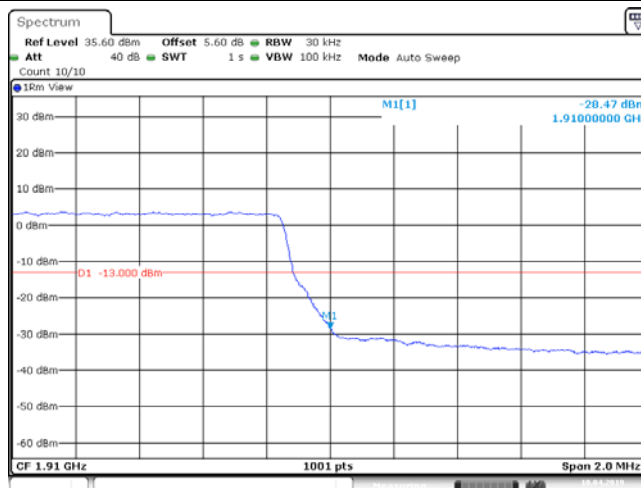
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Date: 10 APR. 2019 13:40:22

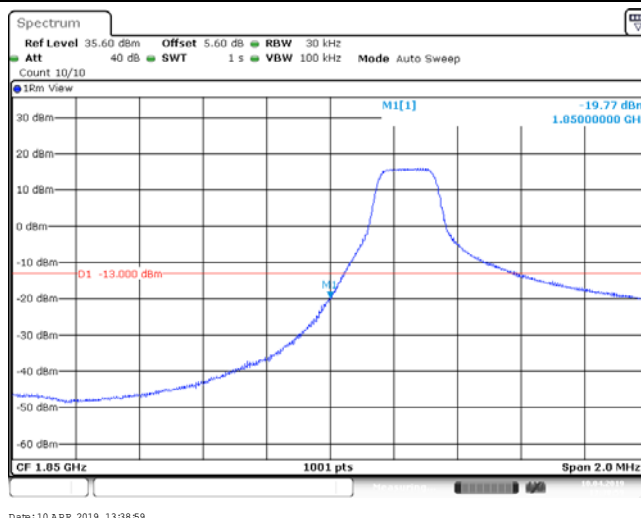
Band2_3MHz_QPSK_19185_15RB#0



Date: 10 APR. 2019 13:41:20

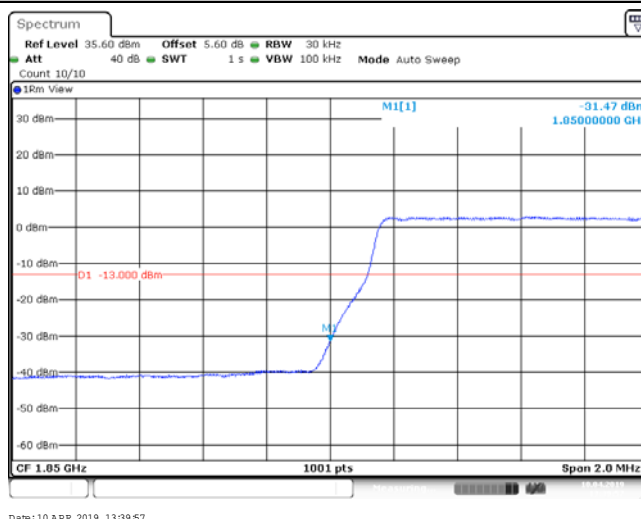
Band2_3MHz_64QAM_18615_1RB#0





Date: 10 APR. 2019 13:38:59

Band2_3MHz_64QAM_18615_15RB#0



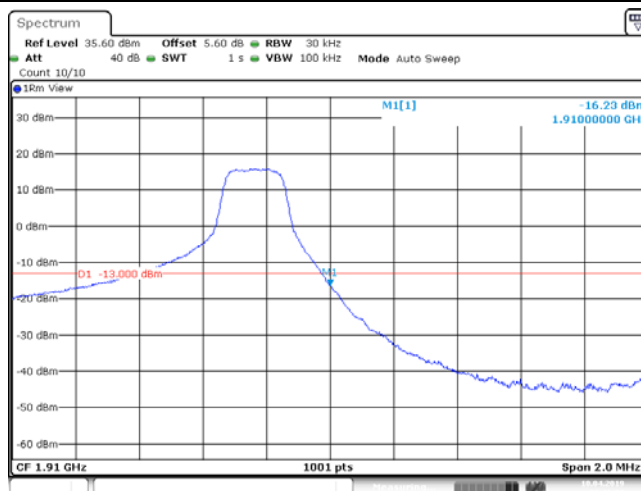
Date: 10 APR. 2019 13:39:57

Band2_3MHz_64QAM_19185_1RB#14



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Date: 10 APR. 2019 13:41:01

Band2_3MHz_64QAM_19185_15RB#0



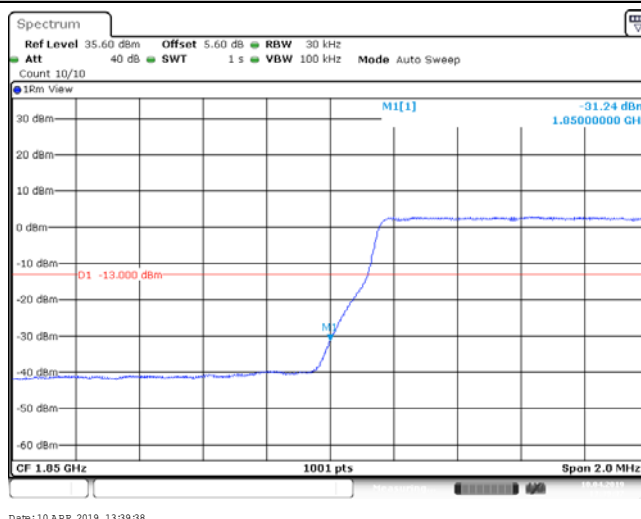
Date: 10 APR. 2019 13:41:58

Band2_3MHz_16QAM_18615_1RB#0



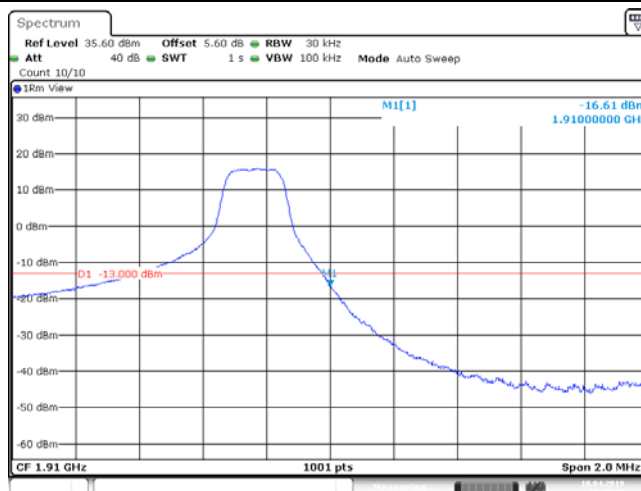


Band2_3MHz_16QAM_18615_15RB#0



Band2_3MHz_16QAM_19185_1RB#14





Date: 10 APR. 2019 13:40:41

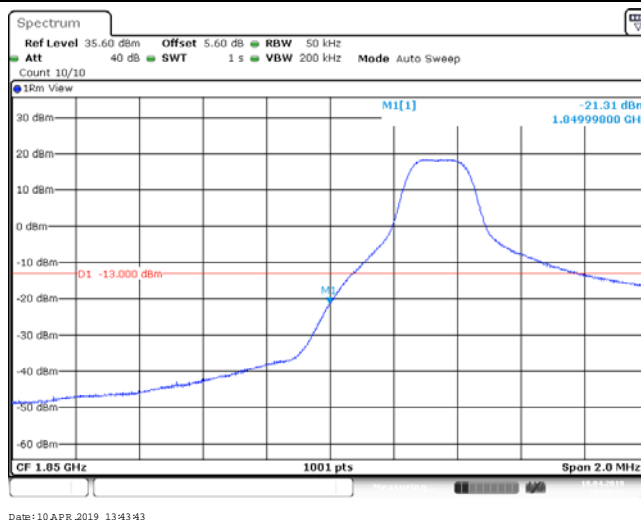
Band2_3MHz_16QAM_19185_15RB#0



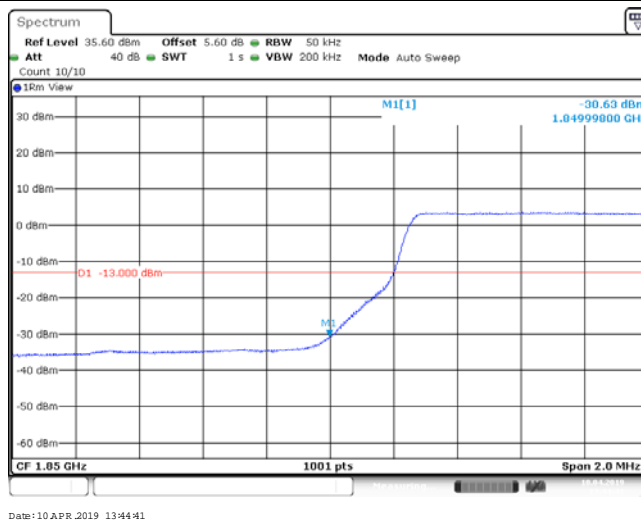
Date: 10 APR. 2019 13:41:39

Band2_5MHz_QPSK_18625_1RB#0





Band2_5MHz_QPSK_18625_25RB#0

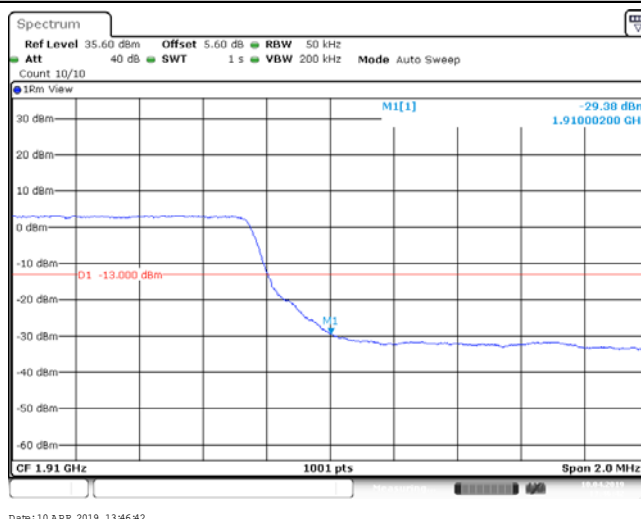


Band2_5MHz_QPSK_19175_1RB#24



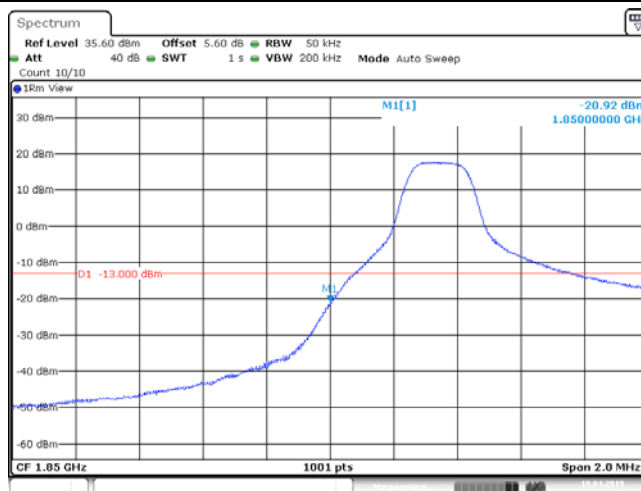


Band2_5MHz_QPSK_19175_25RB#0



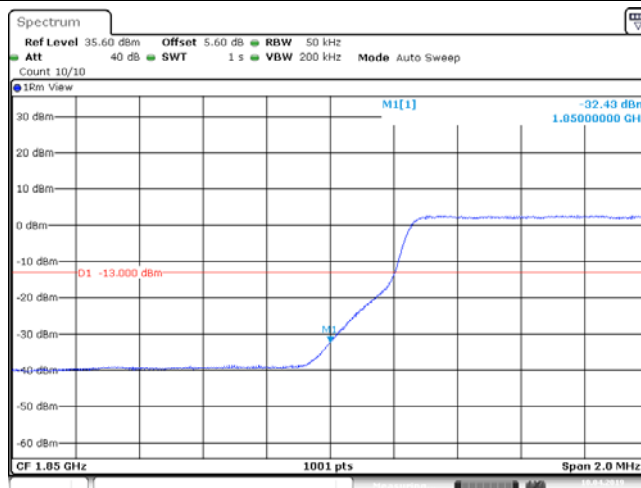
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Date: 10 APR. 2019 13:44:21

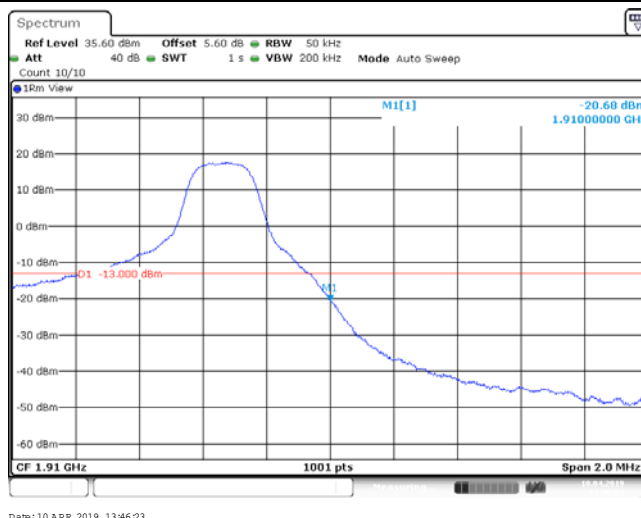
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Date: 10 APR. 2019 13:45:19

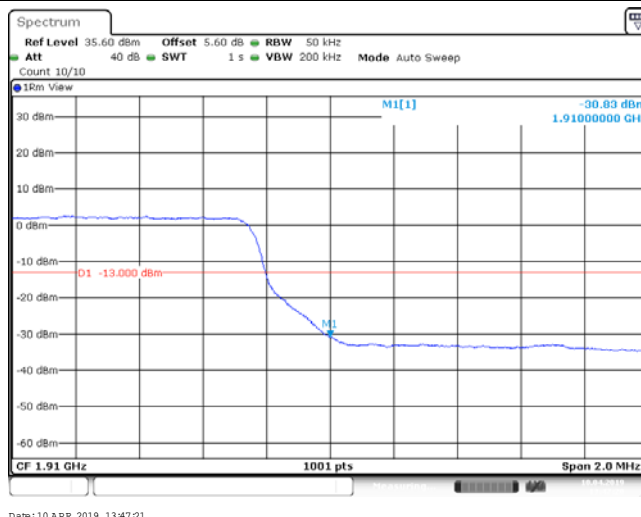
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Date: 10 APR. 2019 13:46:23

Band2_5MHz_64QAM_19175_25RB#0



Date: 10 APR. 2019 13:47:41

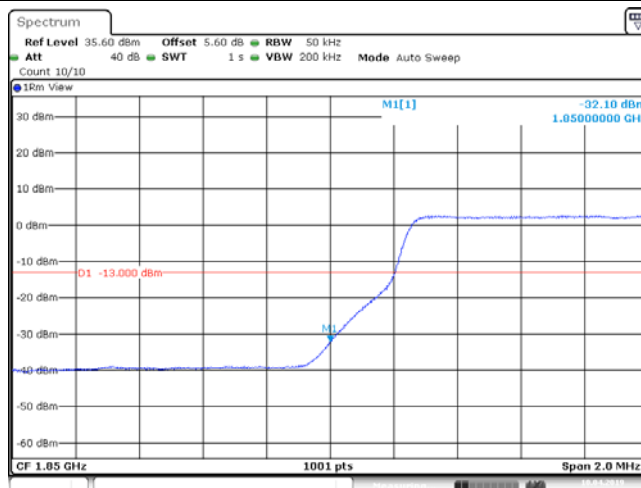
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Date: 10 APR. 2019 13:44:02

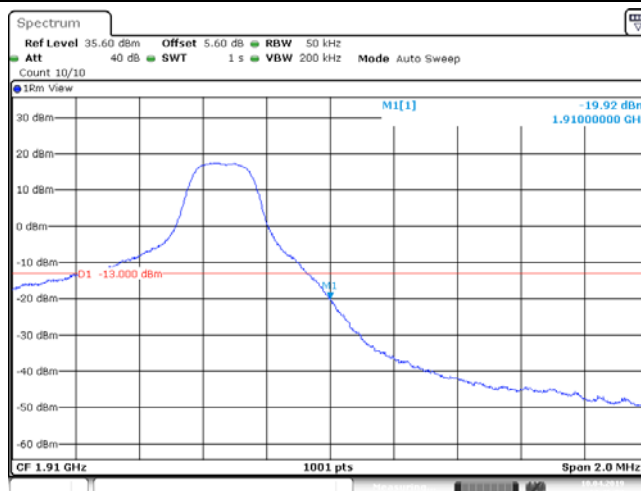
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Date: 10 APR. 2019 13:45:00

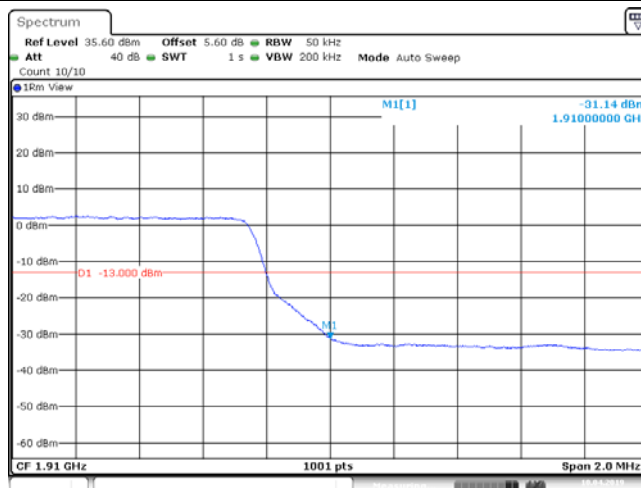
Band2_5MHz_16QAM_19175_1RB#24





Date: 10 APR. 2019 13:46:03

Band2_5MHz_16QAM_19175_25RB#0



Date: 10 APR. 2019 13:47:02

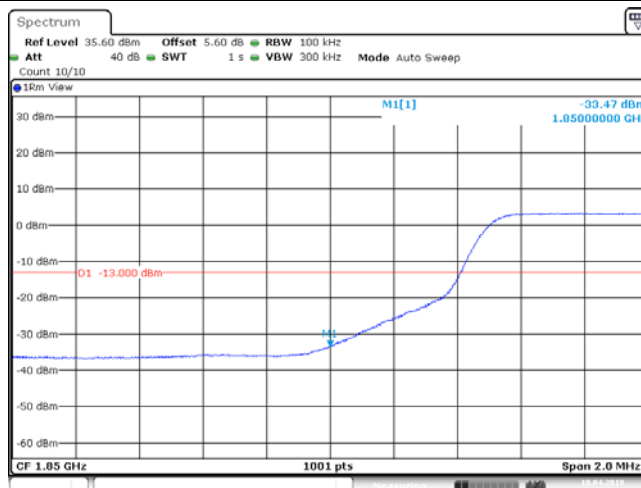
Band2_10MHz_QPSK_18650_1RB#0





Date: 10 APR. 2019 13:49:05

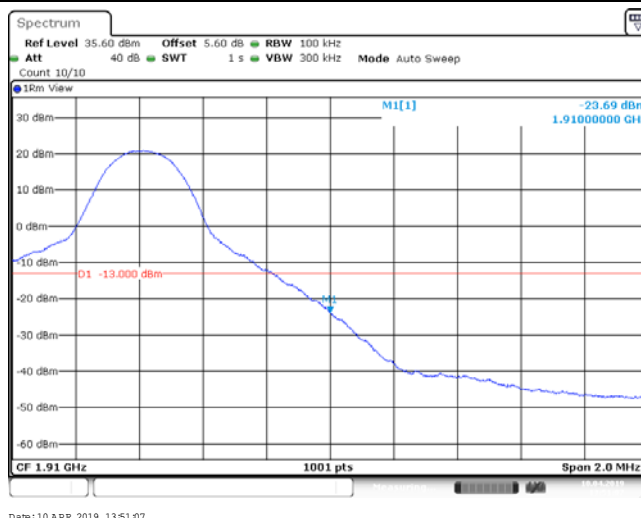
Band2_10MHz_QPSK_18650_50RB#0



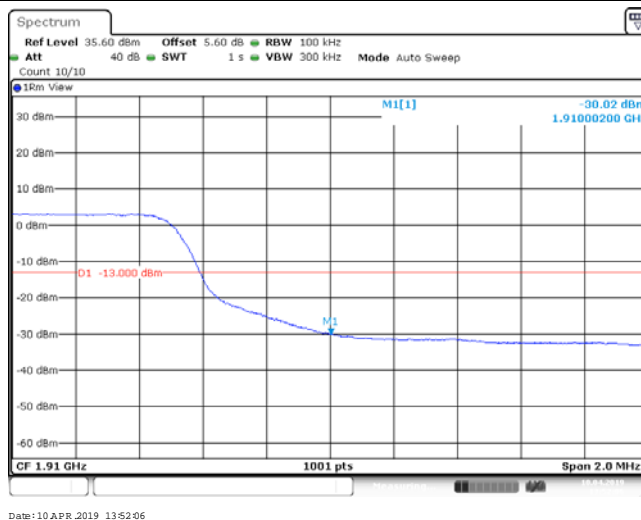
Date: 10 APR. 2019 13:50:04

Band2_10MHz_QPSK_19150_1RB#49



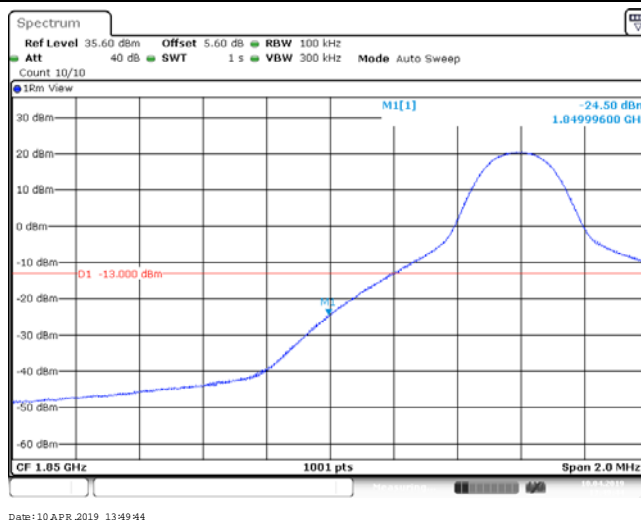


Band2_10MHz_QPSK_19150_50RB#0

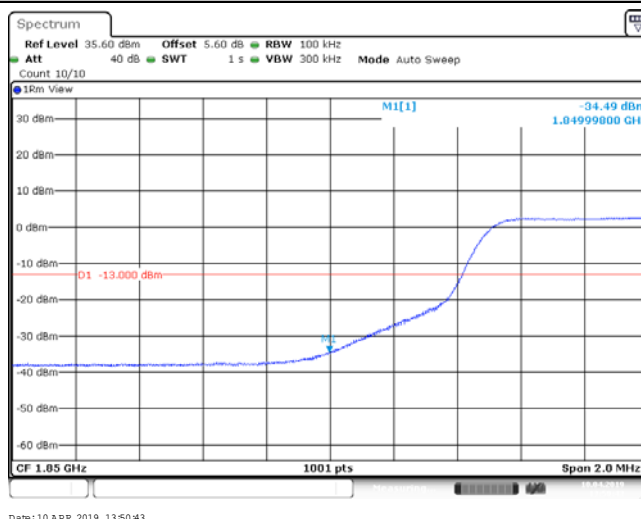


Band2_10MHz_64QAM_18650_1RB#0



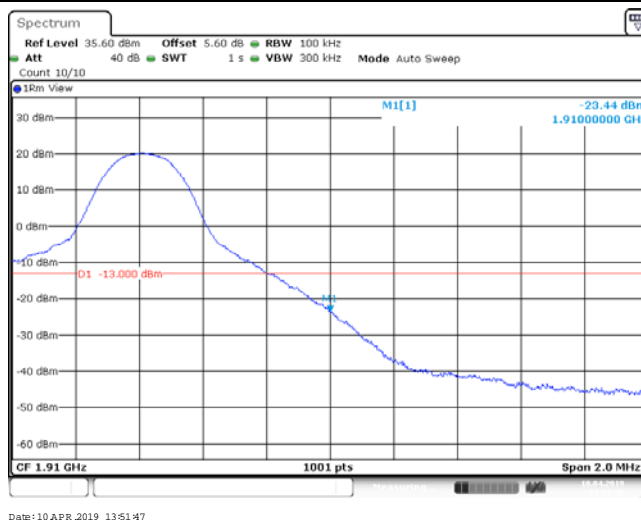


Band2_10MHz_64QAM_18650_50RB#0

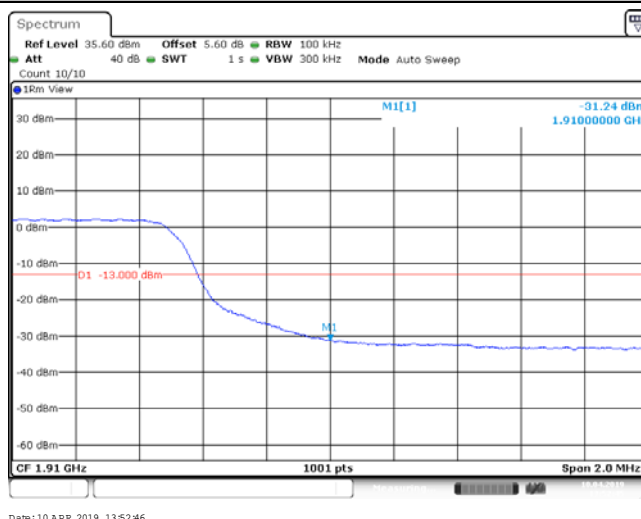


Band2_10MHz_64QAM_19150_1RB#49



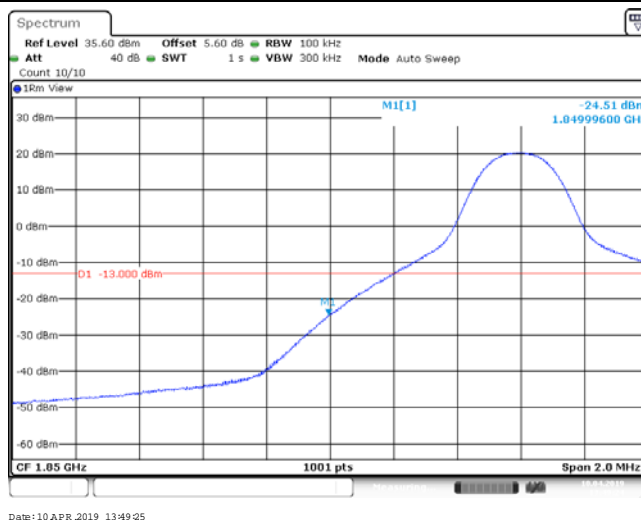


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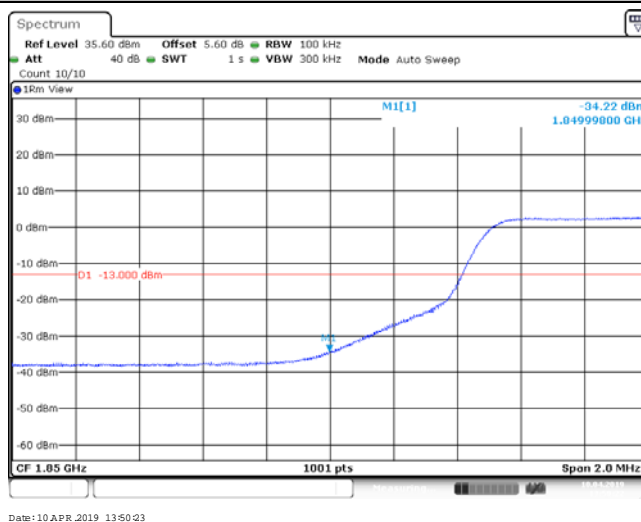


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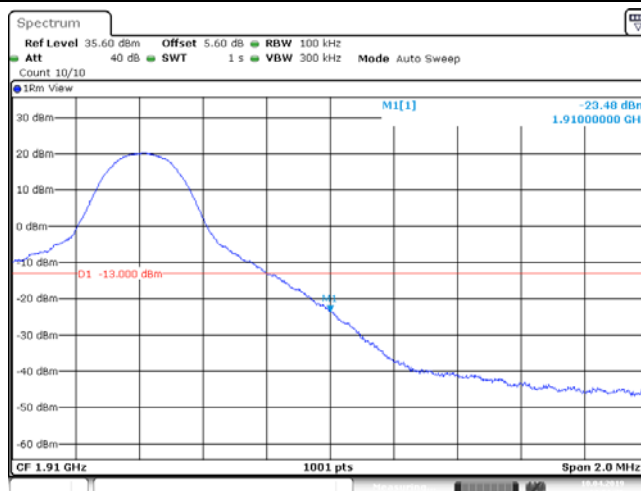


Band2_10MHz_16QAM_18650_50RB#0



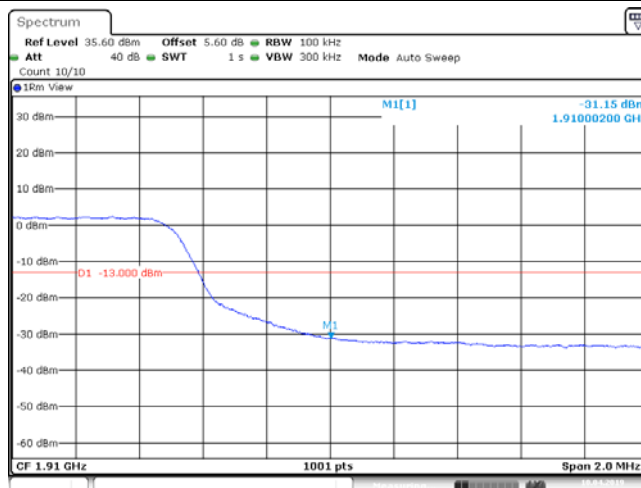
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Date: 10 APR. 2019 13:51:27

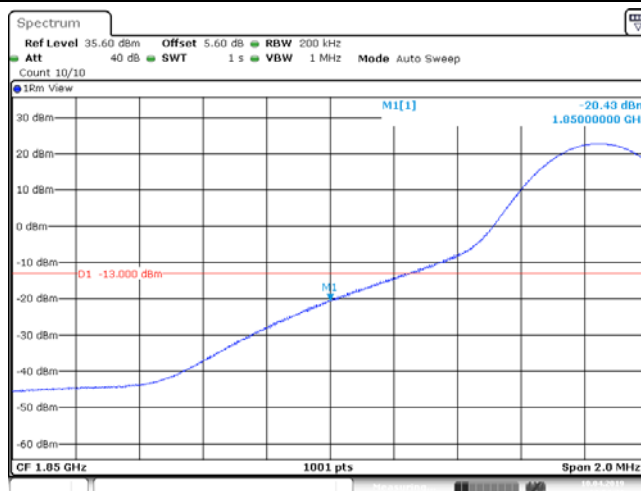
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Date: 10 APR. 2019 13:52:06

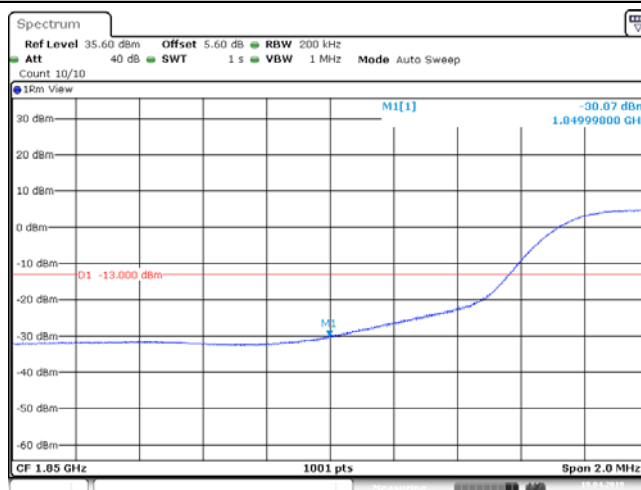
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Date: 10 APR. 2019 13:54:31

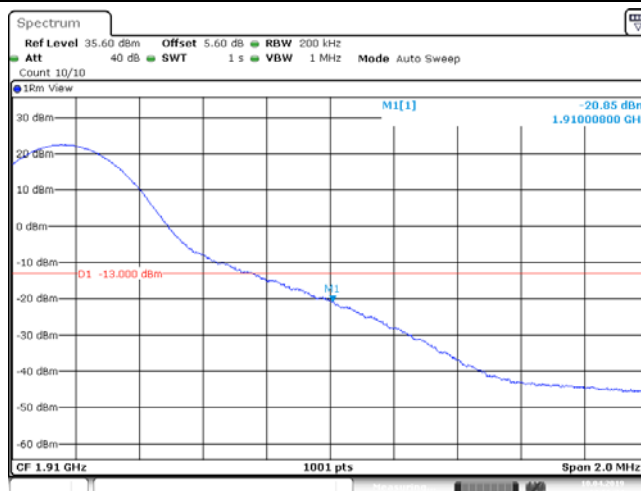
Band2_15MHz_QPSK_18675_75RB#0



Date: 10 APR. 2019 13:55:30

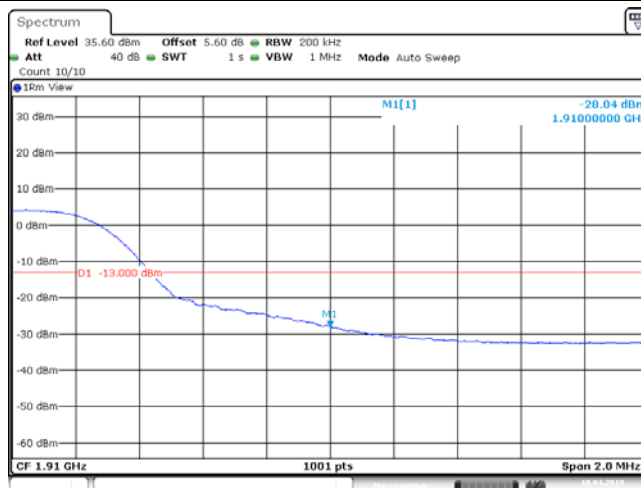
Band2_15MHz_QPSK_19125_1RB#74





Date: 10 APR. 2019 13:56:35

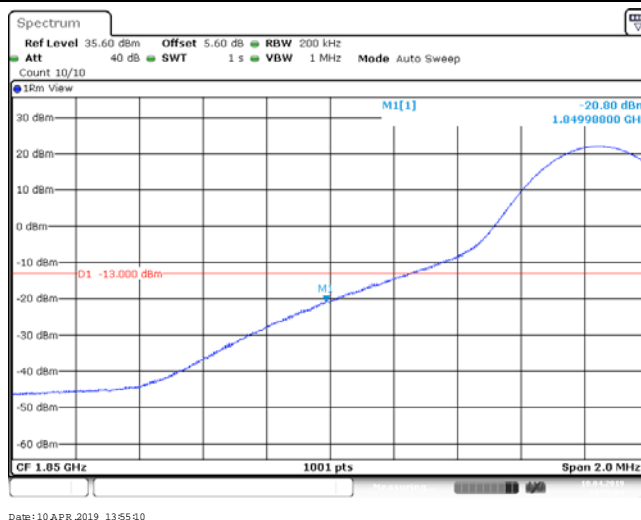
Band2_15MHz_QPSK_19125_75RB#0



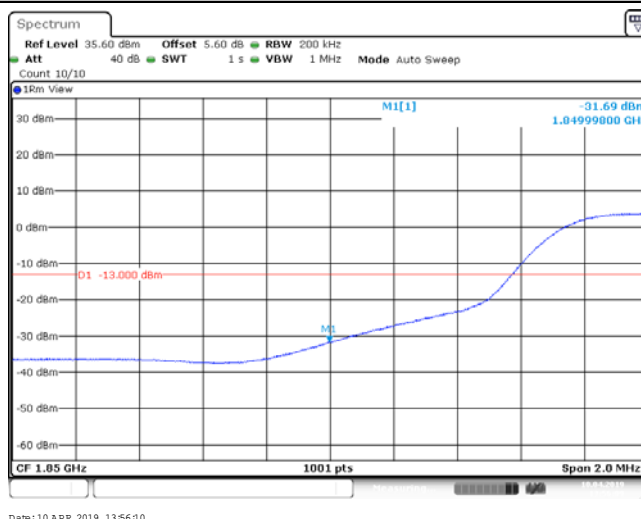
Date: 10 APR. 2019 13:57:35

Band2_15MHz_64QAM_18675_1RB#0



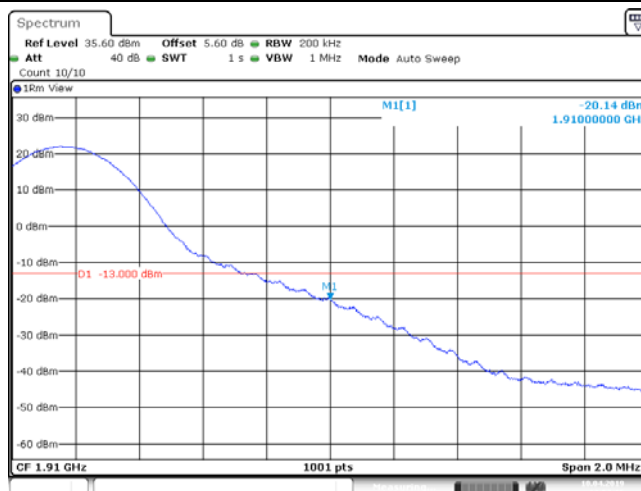


Band2_15MHz_64QAM_18675_75RB#0



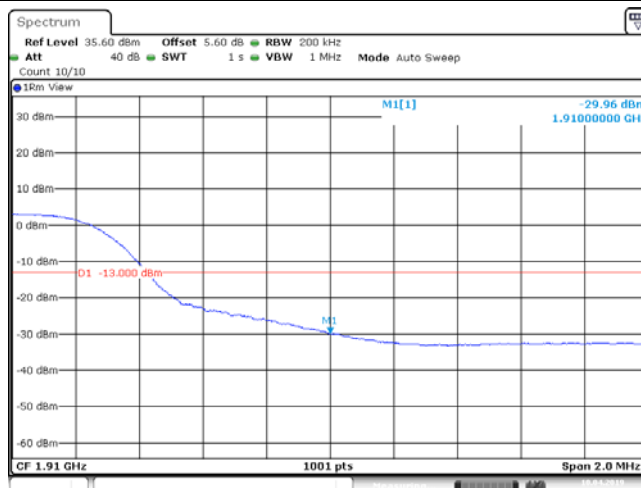
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Date: 10 APR. 2019 13:57:15

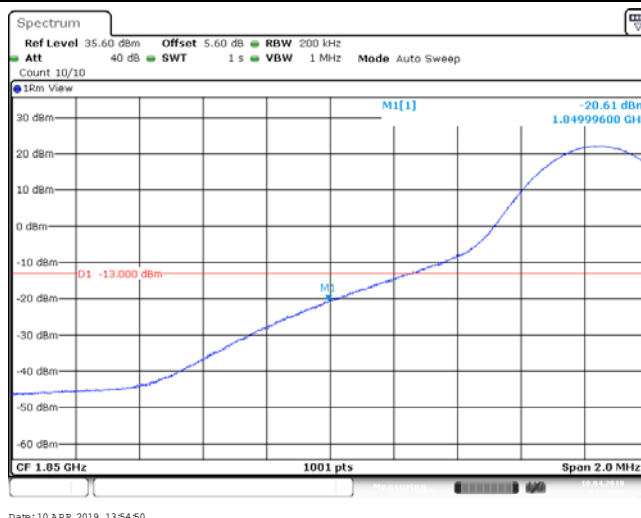
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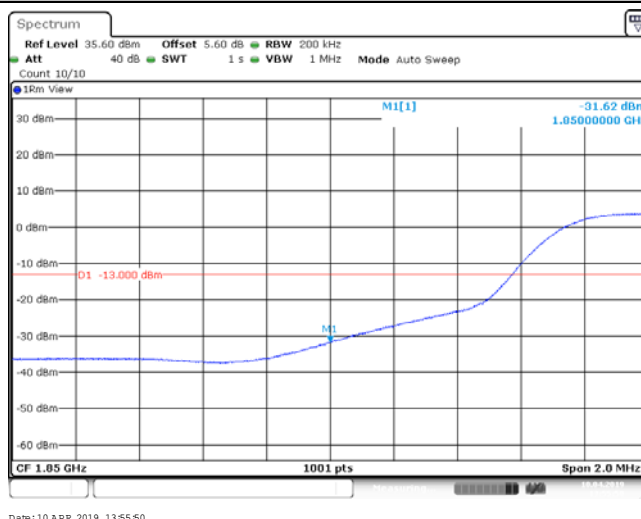
Date: 10 APR. 2019 13:58:15

Band2_15MHz_16QAM_18675_1RB#0





Band2_15MHz_16QAM_18675_75RB#0

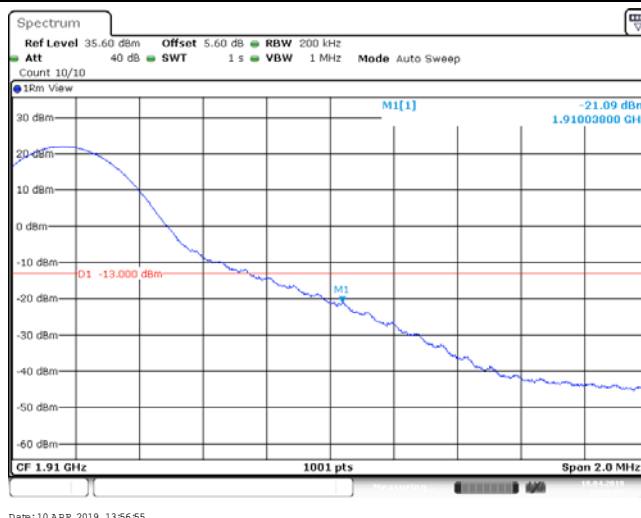


Band2_15MHz_16QAM_19125_1RB#74



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

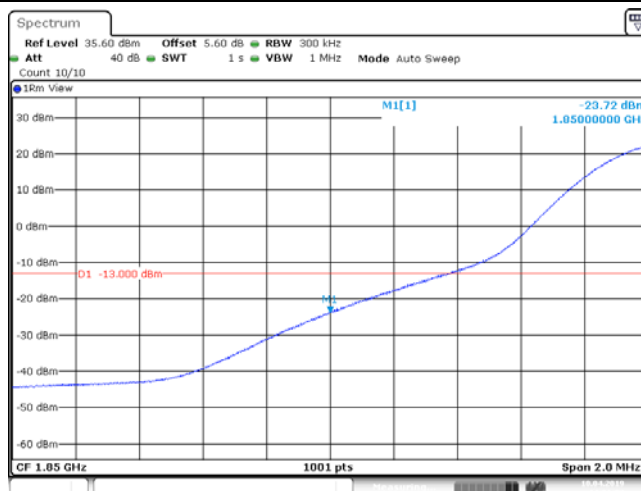


Band2_15MHz_16QAM_19125_75RB#0



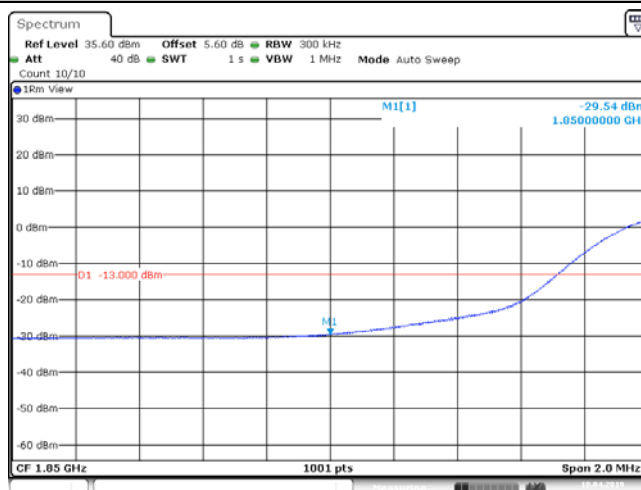
Band2_20MHz_QPSK_18700_1RB#0





Date: 10 APR. 2019 14:01:02

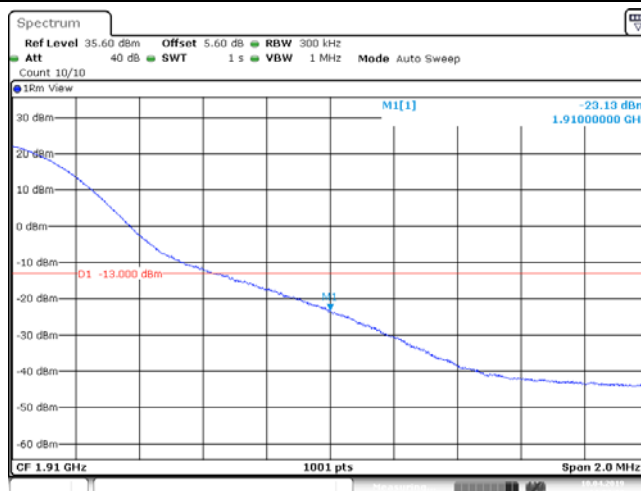
Band2_20MHz_QPSK_18700_100RB#0



Date: 10 APR. 2019 14:02:04

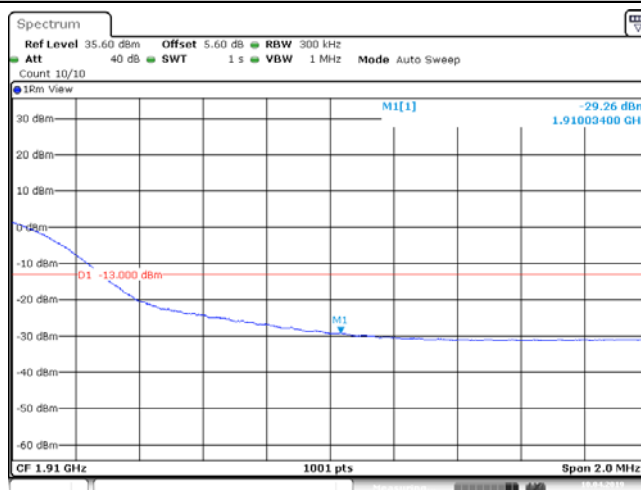
Band2_20MHz_QPSK_19100_1RB#99





Date: 10 APR. 2019 14:03:12

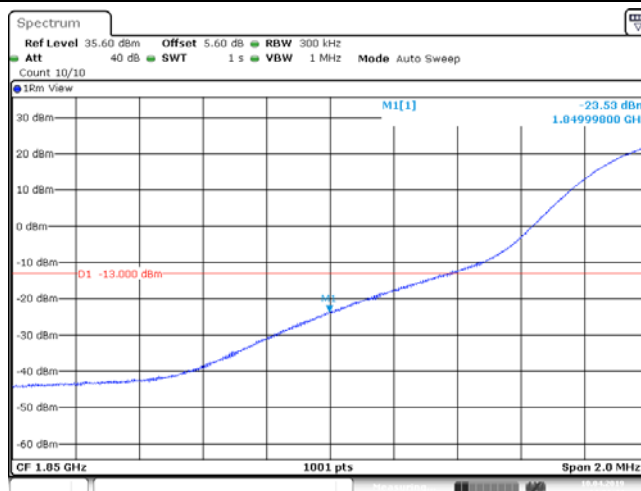
Band2_20MHz_QPSK_19100_100RB#0



Date: 10 APR. 2019 14:04:14

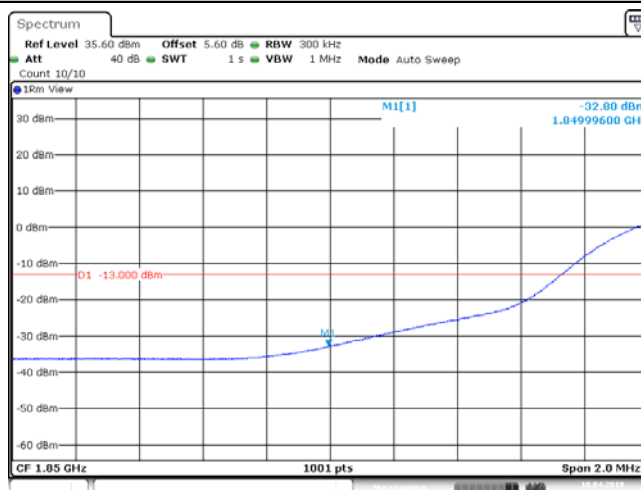
Band2_20MHz_64QAM_18700_1RB#0





Date: 10 APR. 2019 14:01:44

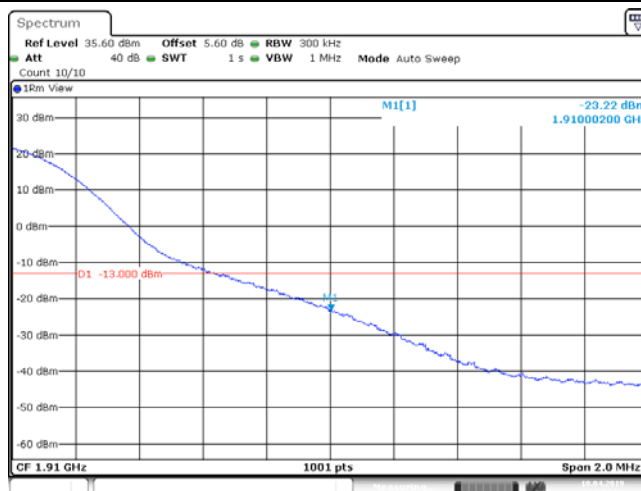
Band2_20MHz_64QAM_18700_100RB#0



Date: 10 APR. 2019 14:02:46

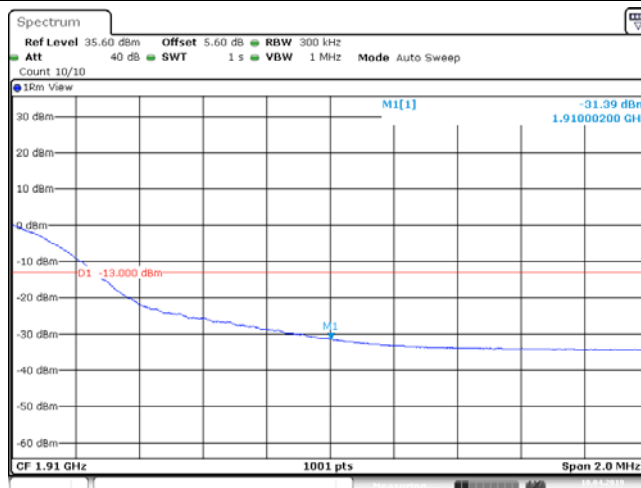
Band2_20MHz_64QAM_19100_1RB#99





Date: 10 APR. 2019 14:03:54

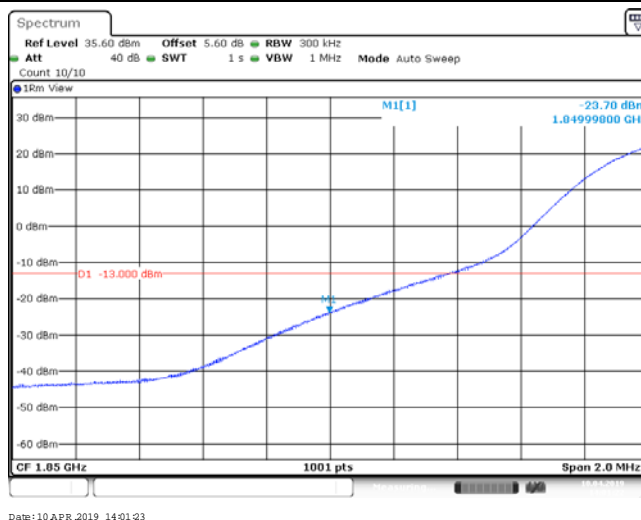
Band2_20MHz_64QAM_19100_100RB#0



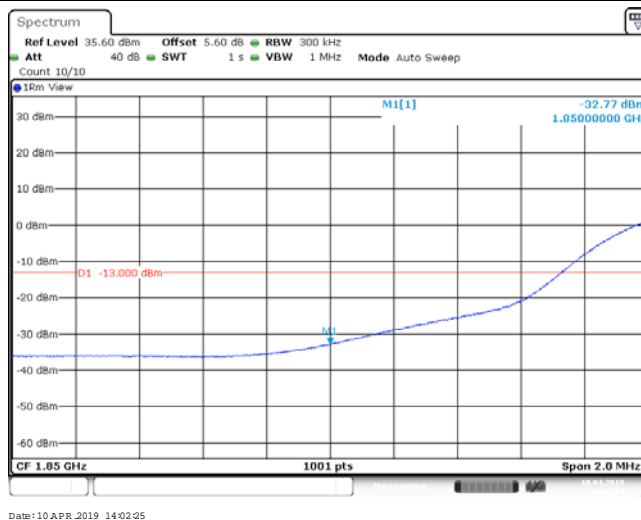
Date: 10 APR. 2019 14:04:56

Band2_20MHz_16QAM_18700_1RB#0



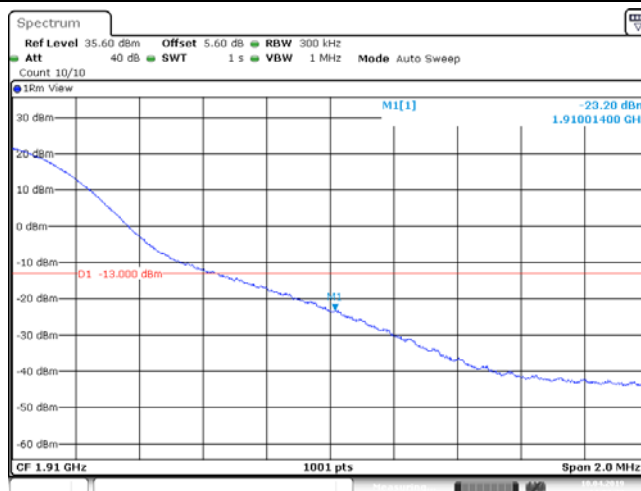


Band2_20MHz_16QAM_18700_100RB#0



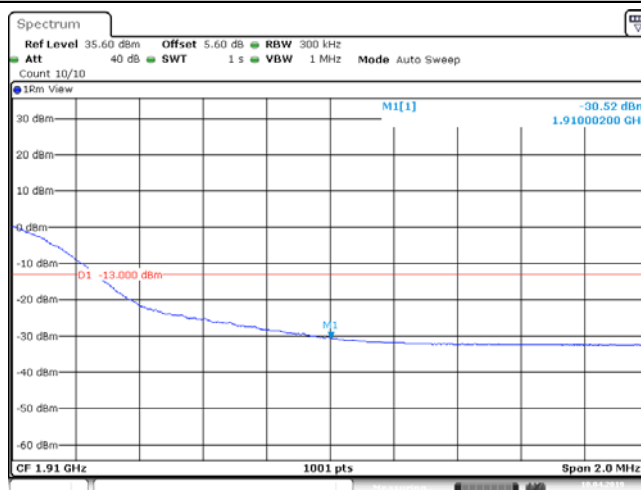
Band2_20MHz_16QAM_19100_1RB#99





Date: 10 APR. 2019 14:03:33

Band2_20MHz_16QAM_19100_100RB#0



Date: 10 APR. 2019 14:04:35



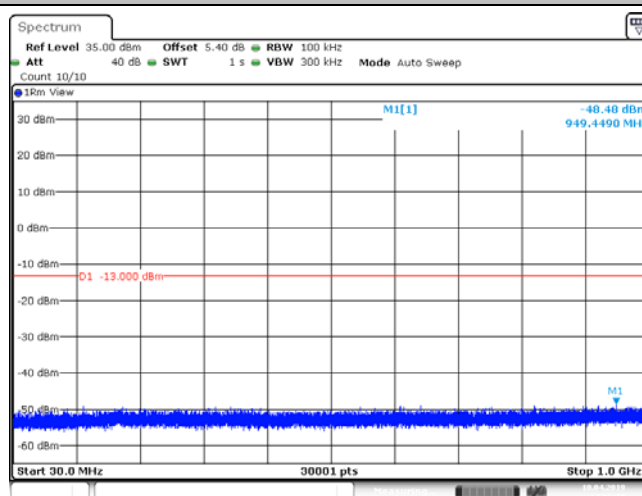
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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.

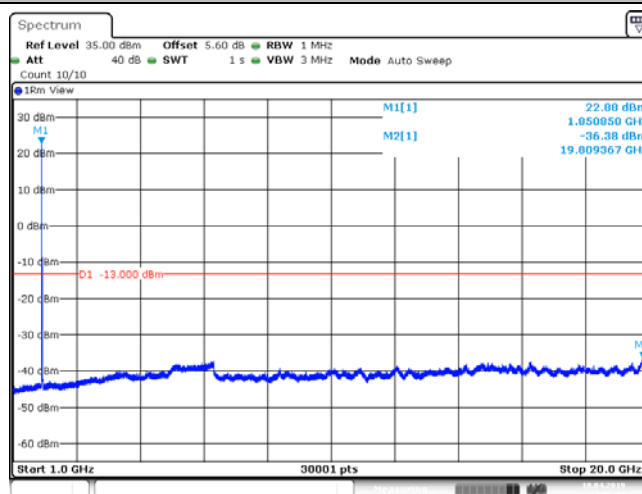
6.1. Test Plots

Band2_20MHz_QPSK_18700_1RB#0



Date: 10 APR. 2019 14:05:48

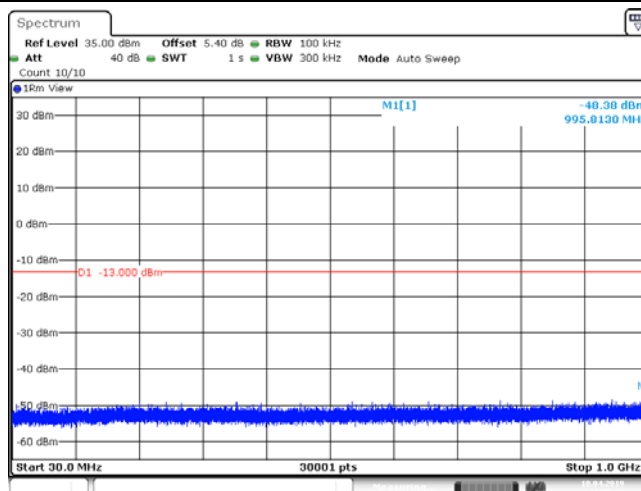
Band2_20MHz_QPSK_18700_1RB#0



Date: 10 APR. 2019 14:05:37

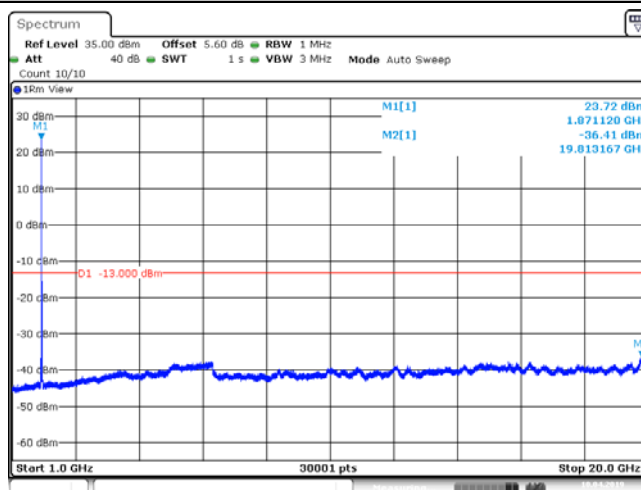
Band2_20MHz_QPSK_18900_1RB#0





Date: 10 APR. 2019 14:07:15

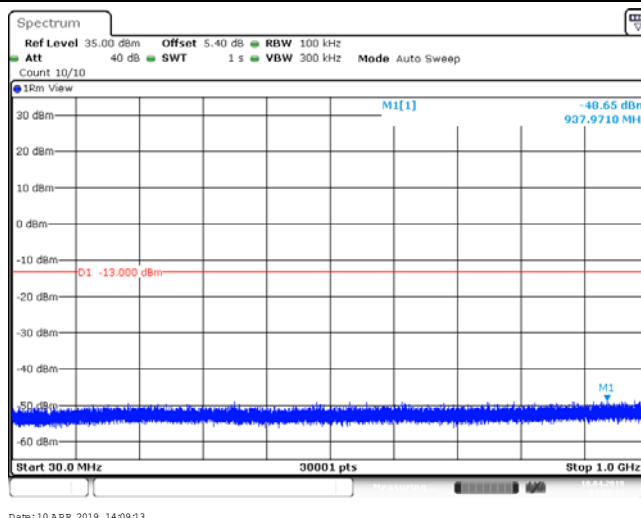
Band2_20MHz_QPSK_18900_1RB#0



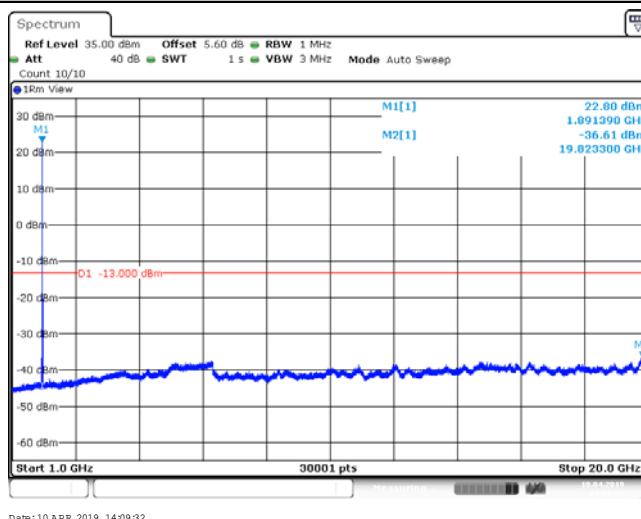
Date: 10 APR. 2019 14:07:34

Band2_20MHz_QPSK_19100_1RB#0





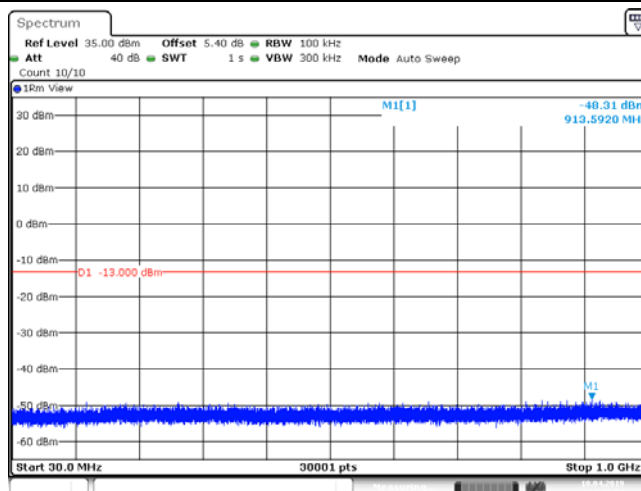
Band2_20MHz_QPSK_19100_1RB#0



Band2_20MHz_64QAM_18700_1RB#0

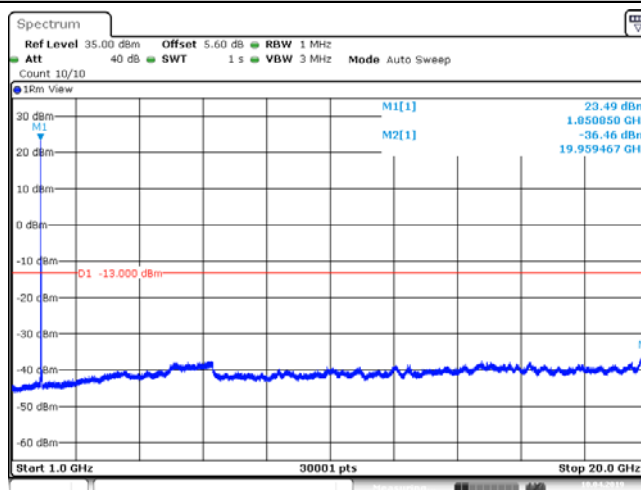


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Date: 10 APR. 2019 14:06:34

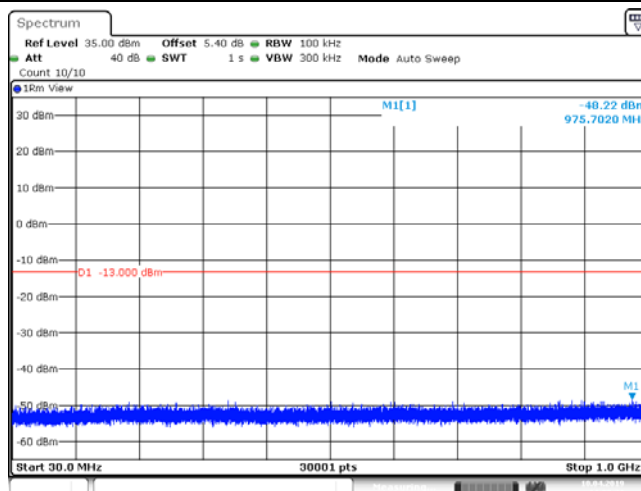
Band2_20MHz_64QAM_18700_1RB#0



Date: 10 APR. 2019 14:06:54

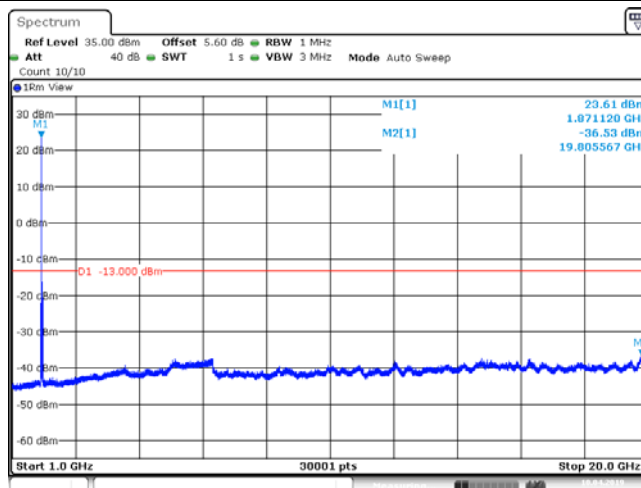
Band2_20MHz_64QAM_18900_1RB#0





Date: 10 APR. 2019 14:08:32

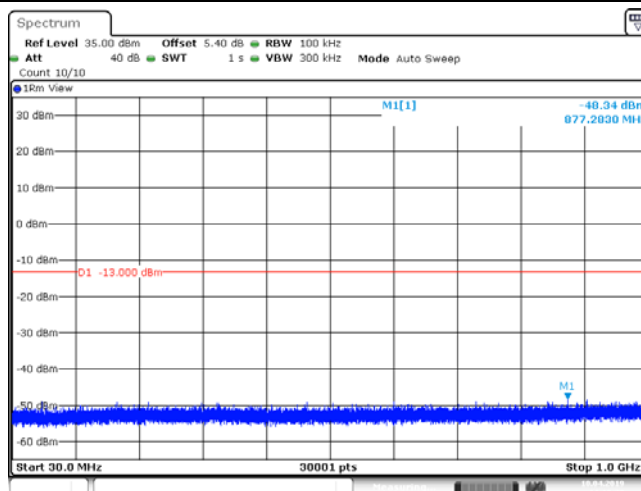
Band2_20MHz_64QAM_18900_1RB#0



Date: 10 APR. 2019 14:08:51

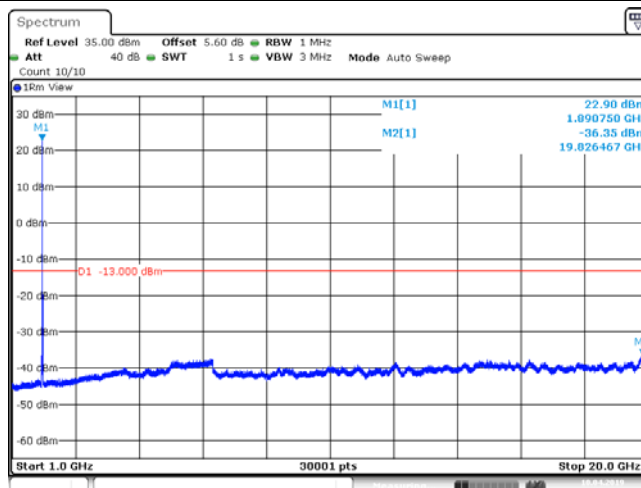
Band2_20MHz_64QAM_19100_1RB#0





Date: 10 APR. 2019 14:10:29

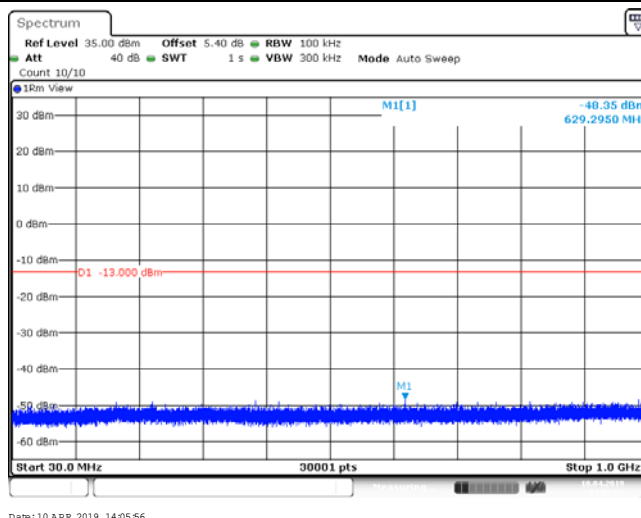
Band2_20MHz_64QAM_19100_1RB#0



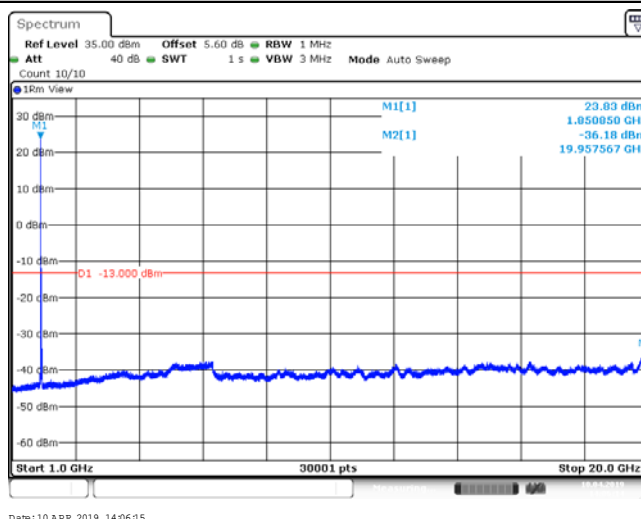
Date: 10 APR. 2019 14:10:48

Band2_20MHz_16QAM_18700_1RB#0





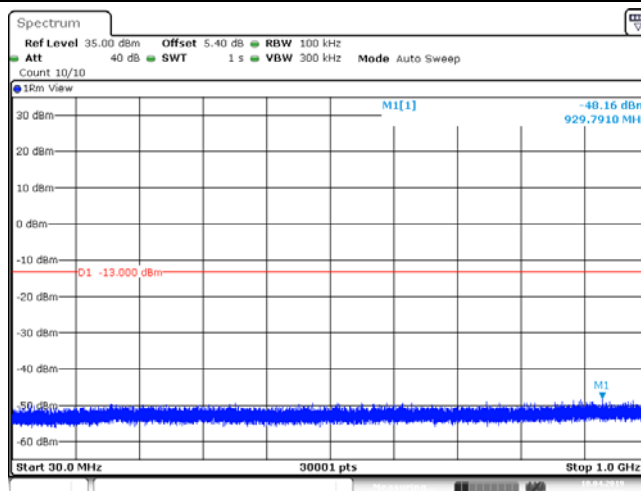
Band2_20MHz_16QAM_18700_1RB#0



Band2_20MHz_16QAM_18900_1RB#0

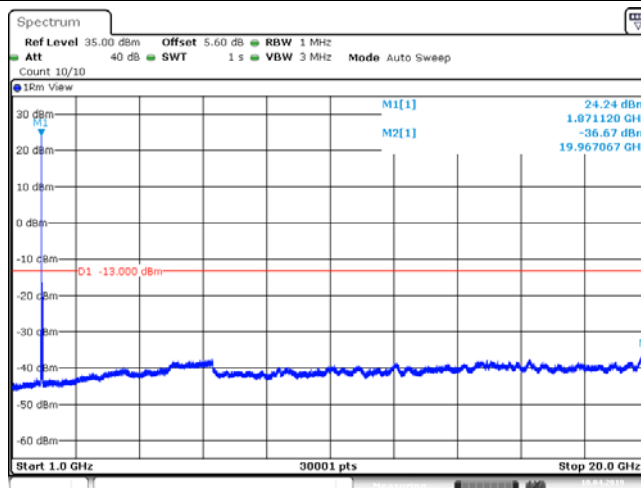


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Date: 10 APR. 2019 14:07:54

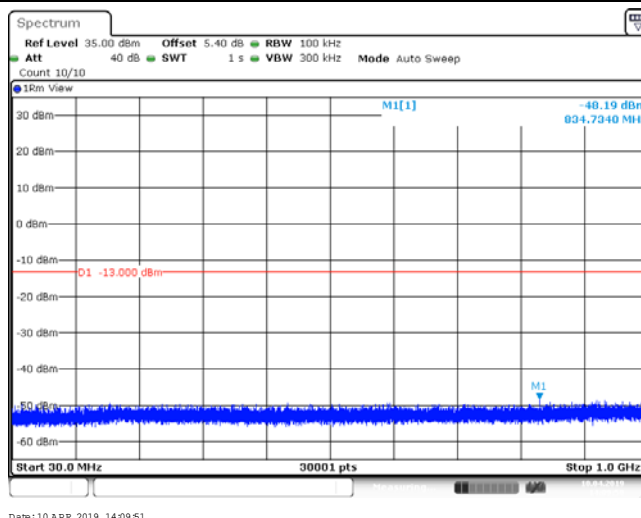
Band2_20MHz_16QAM_18900_1RB#0



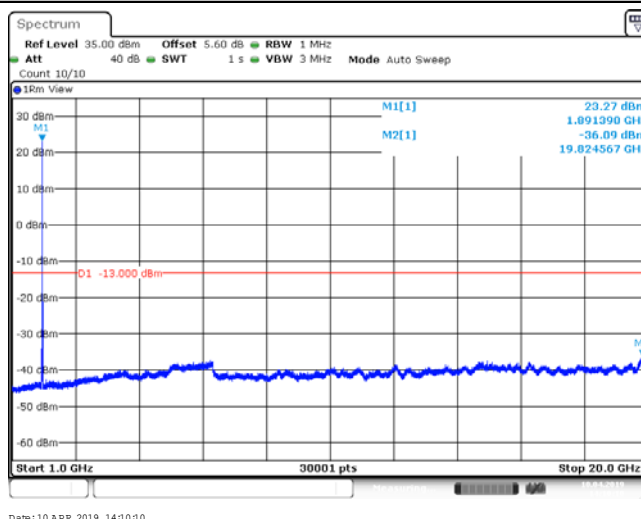
Date: 10 APR. 2019 14:08:13

Band2_20MHz_16QAM_19100_1RB#0





Band2_20MHz_16QAM_19100_1RB#0



7. Field Strength of Spurious Radiation

7.1. Main Antenna

7.1.1. Test BAND = LTE Band 2

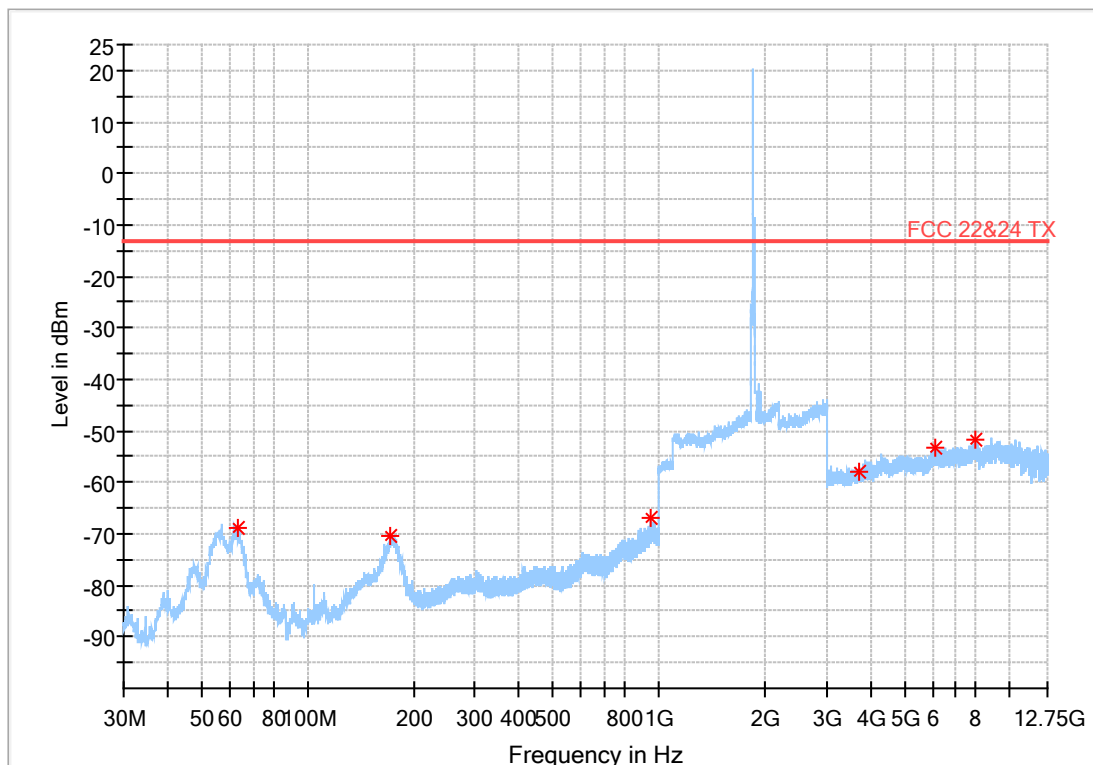
7.1.1.1. Test Mode = LTE/TM1 20MHz



7.1.1.1.1. Test Channel = LCH

7.1.1.1.1.1. Horizontal

Full Spectrum

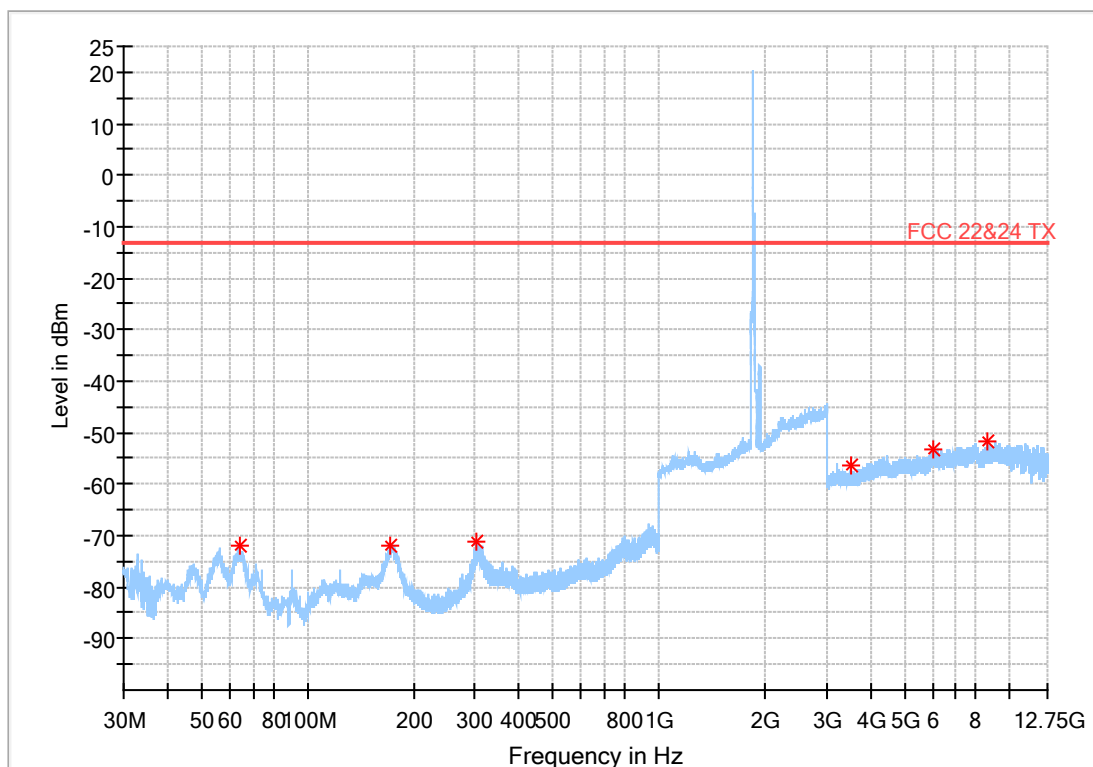


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.650000	-68.90	-13.00	55.90	---	---	200.0	H	102.0	-96.4
171.350000	-70.35	-13.00	57.35	---	---	200.0	H	217.0	-107.2
949.216667	-67.01	-13.00	54.01	---	---	200.0	H	263.0	-91.9
3710.450000	-57.82	-13.00	44.82	---	---	200.0	H	0.0	-104.7
6076.125000	-53.42	-13.00	40.42	---	---	200.0	H	0.0	-99.9
7960.150000	-51.81	-13.00	38.81	---	---	200.0	H	2.0	-98.1



7.1.1.1.1.2. Vertical

Full Spectrum



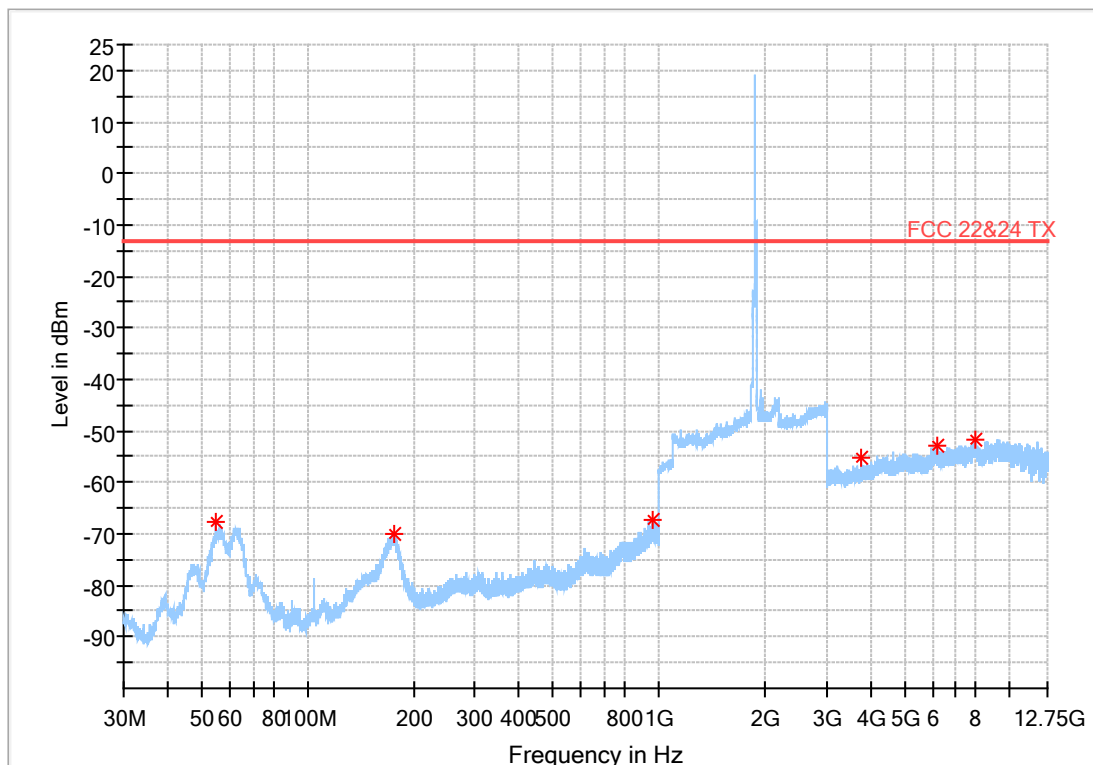
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.300000	-72.11	-13.00	59.11	---	---	200.0	V	264.0	-99.9
173.050000	-71.77	-13.00	58.77	---	---	200.0	V	55.0	-108.9
302.850000	-71.00	-13.00	58.00	---	---	200.0	V	171.0	-102.3
3508.950000	-56.49	-13.00	43.49	---	---	200.0	V	2.0	-105.3
6060.850000	-53.34	-13.00	40.34	---	---	200.0	V	215.0	-99.7
8650.450000	-51.89	-13.00	38.89	---	---	200.0	V	2.0	-97.5



7.1.1.1.2. Test Channel = MCH

7.1.1.1.2.1. Horizontal

Full Spectrum

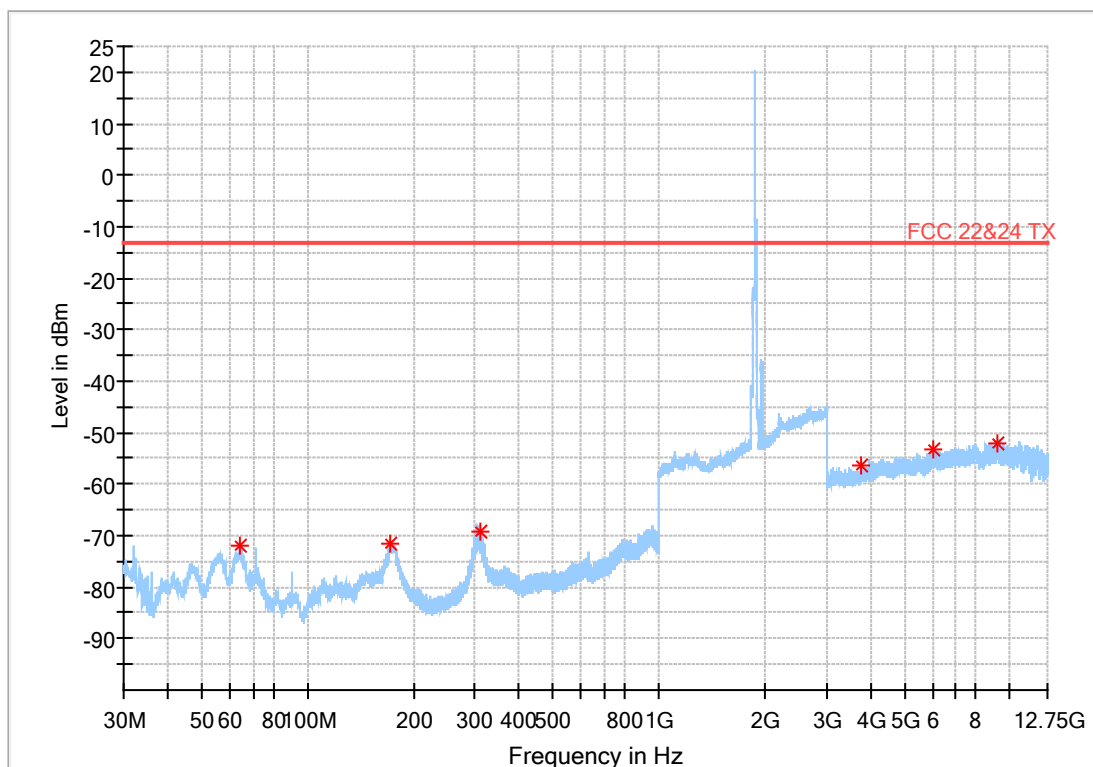


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
55.050000	-67.87	-13.00	54.87	---	---	200.0	H	333.0	-97.7
175.850000	-69.87	-13.00	56.87	---	---	200.0	H	217.0	-107.2
958.795833	-67.38	-13.00	54.38	---	---	200.0	H	0.0	-91.8
3742.300000	-55.31	-13.00	42.31	---	---	200.0	H	1.0	-104.6
6161.600000	-52.89	-13.00	39.89	---	---	200.0	H	0.0	-100.0
7959.825000	-51.65	-13.00	38.65	---	---	200.0	H	0.0	-98.1



7.1.1.1.2.2. Vertical

Full Spectrum



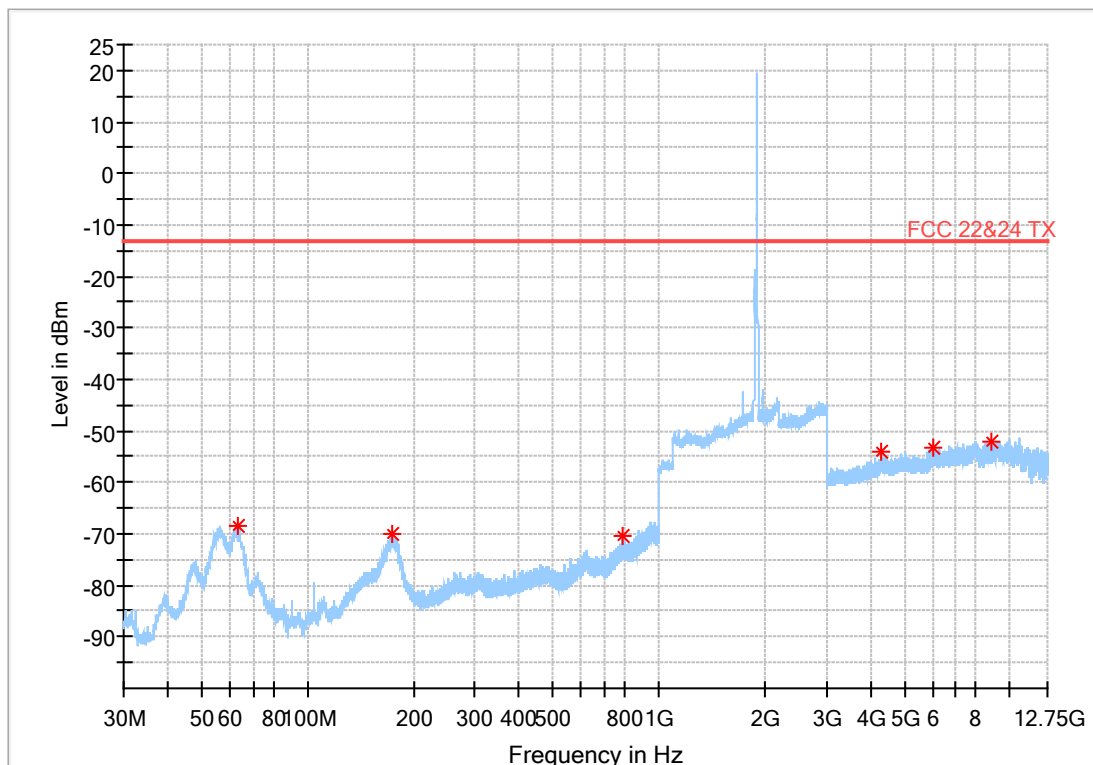
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.100000	-72.10	-13.00	59.10	---	---	200.0	V	240.0	-100.0
171.200000	-71.44	-13.00	58.44	---	---	200.0	V	55.0	-108.8
308.550000	-69.26	-13.00	56.26	---	---	200.0	V	358.0	-102.1
3741.975000	-56.21	-13.00	43.21	---	---	200.0	V	1.0	-104.5
6022.500000	-53.35	-13.00	40.35	---	---	200.0	V	0.0	-100.0
9240.000000	-52.29	-13.00	39.29	---	---	200.0	V	0.0	-97.0



7.1.1.1.3. Test Channel = HCH

7.1.1.1.3.1. Horizontal

Full Spectrum

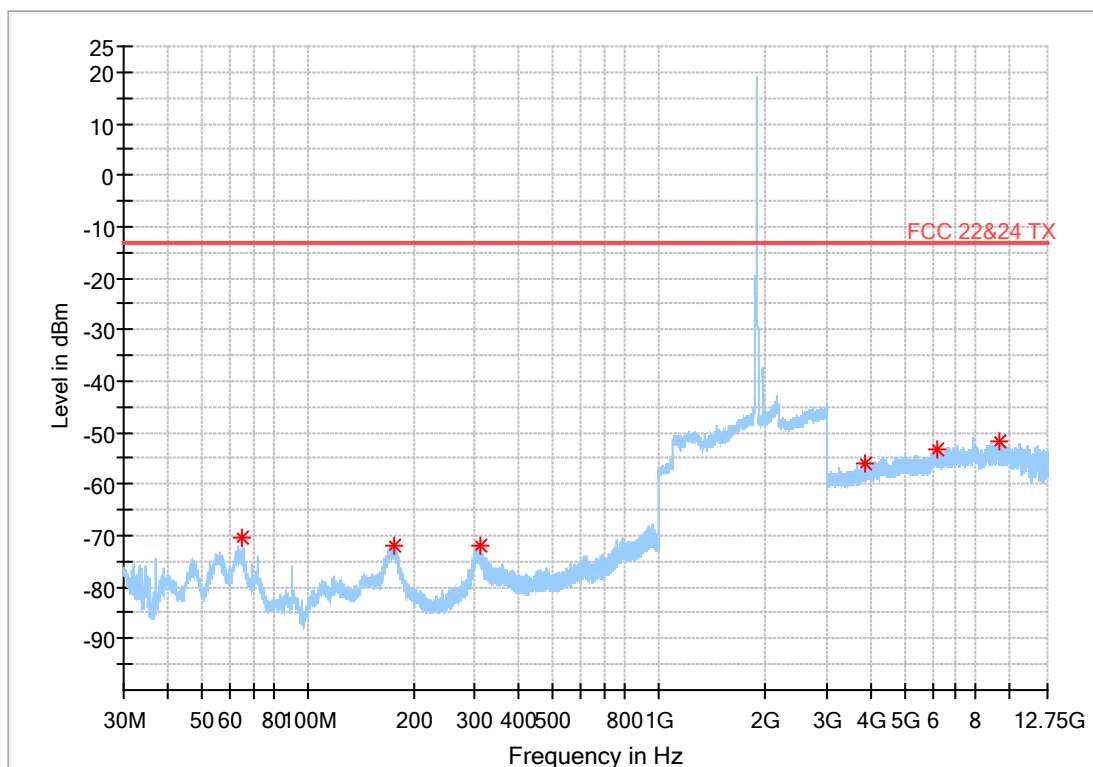


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.150000	-68.53	-13.00	55.53	---	---	200.0	H	217.0	-95.8
173.400000	-70.12	-13.00	57.12	---	---	200.0	H	240.0	-107.1
784.583333	-70.59	-13.00	57.59	---	---	200.0	H	77.0	-95.2
4308.125000	-54.07	-13.00	41.07	---	---	200.0	H	212.0	-102.6
6058.900000	-53.29	-13.00	40.29	---	---	200.0	H	212.0	-99.8
8884.450000	-52.28	-13.00	39.28	---	---	200.0	H	2.0	-97.2



7.1.1.1.3.2. Vertical

Full Spectrum



Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
65.050000	-70.38	-13.00	57.38	---	---	200.0	V	148.0	-99.8
176.450000	-72.11	-13.00	59.11	---	---	200.0	V	54.0	-109.1
309.600000	-71.83	-13.00	58.83	---	---	200.0	V	359.0	-102.1
3838.500000	-56.11	-13.00	43.11	---	---	200.0	V	212.0	-104.1
6202.875000	-53.26	-13.00	40.26	---	---	200.0	V	0.0	-99.9
9265.675000	-51.52	-13.00	38.52	---	---	200.0	V	1.0	-97.0



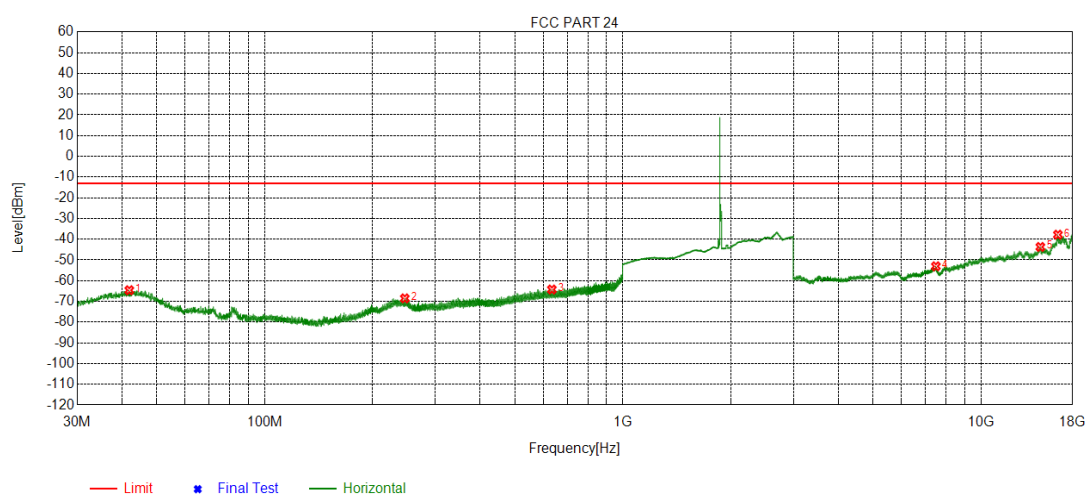
7.2. Secondary Antenna

7.2.1. Test BAND = LTE Band 2

7.2.1.1. Test Mode = LTE/TM1 20MHz

7.2.1.1.1. Test Channel = LCH

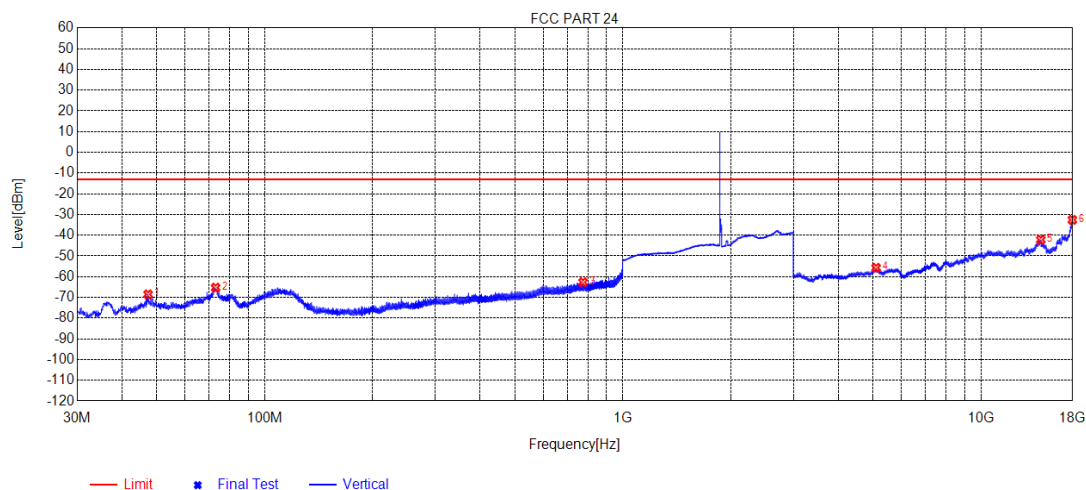
7.2.1.1.1.1. Horizontal



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.9316	-71.46	-64.60	-13.00	51.60	6.86	Horizontal
2	246.4178	-71.18	-68.53	-13.00	55.53	2.65	Horizontal
3	634.1462	-72.05	-64.25	-13.00	51.25	7.80	Horizontal
4	7483.149	-76.93	-53.05	-13.00	40.05	23.88	Horizontal
5	14647.88	-77.81	-43.71	-13.00	30.71	34.10	Horizontal
6	16396.94	-75.26	-37.80	-13.00	24.80	37.46	Horizontal



7.2.1.1.1.2. Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.3154	-66.74	-68.52	-13.00	55.52	-1.78	Vertical
2	73.0217	-66.36	-65.29	-13.00	52.29	1.07	Vertical
3	774.6577	-72.33	-62.67	-13.00	49.67	9.66	Vertical
4	5096.569	-76.96	-55.70	-13.00	42.70	21.26	Vertical
5	14691.88	-78.09	-42.15	-13.00	29.15	35.94	Vertical
6	17994.99	-77.12	-32.58	-13.00	19.58	44.54	Vertical

