

11.2.5 Block edge compliance

Description:

The spectrum at the band edges must comply with the spurious emissions limits.

Measurement:

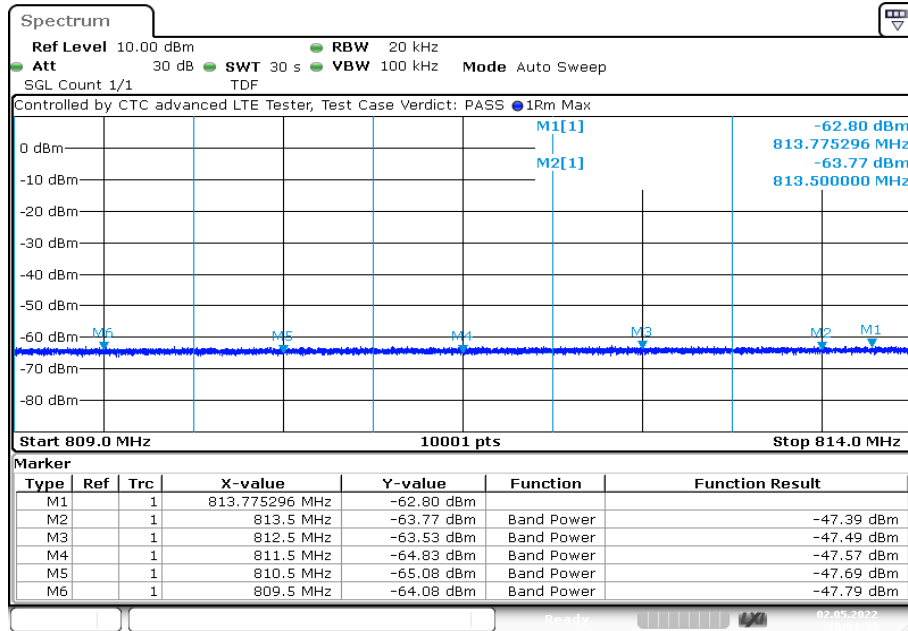
Measurement parameters	
Detector:	RMS
Sweep time:	30s
Resolution bandwidth:	> 1% of the emission bandwidth
Video bandwidth:	> 3xRBW
Span:	5 MHz
Trace mode:	Max Hold
Measurement function:	1 MHz band power
Used equipment:	See chapter 7.2 setup A
Measurement uncertainty:	See chapter 8
Measurement procedure:	FCC: § 2.1051

Limits:

FCC
§ 22.917(a) & (b)
(a) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB .
(b)(1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a RBW of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
(b)(2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz.
-13 dBm
Correction factor according to KDB 890810 if RBW < 1 % emission bandwidth: <input checked="" type="checkbox"/> N/A here <input type="checkbox"/> $10 \log (RBW1/RBW2) = X \text{ dB}$; whereas: $RBW1 = Y, RBW2 = Z$

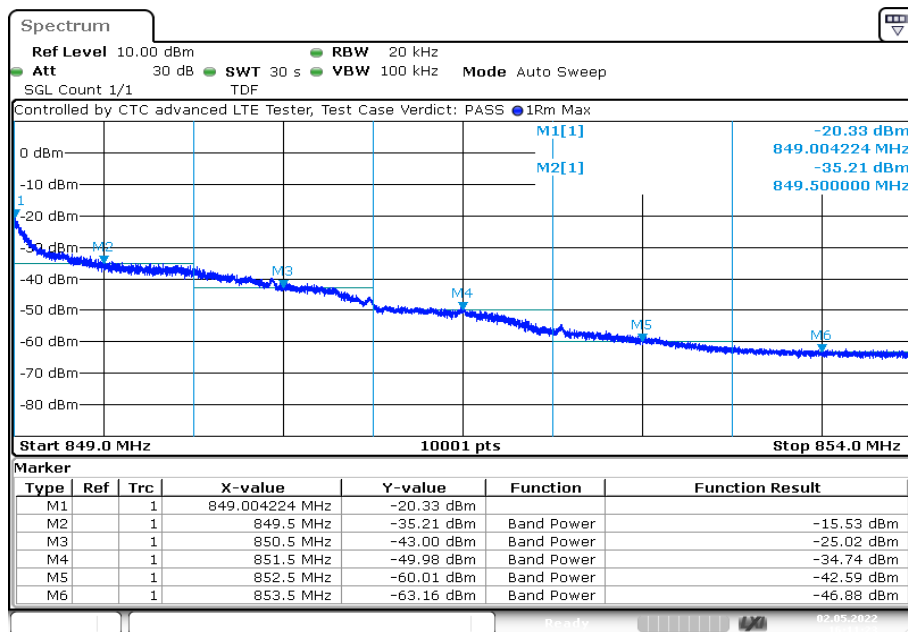
Results:

Plot 1: 1.4 MHz – QPSK - Lowest channel



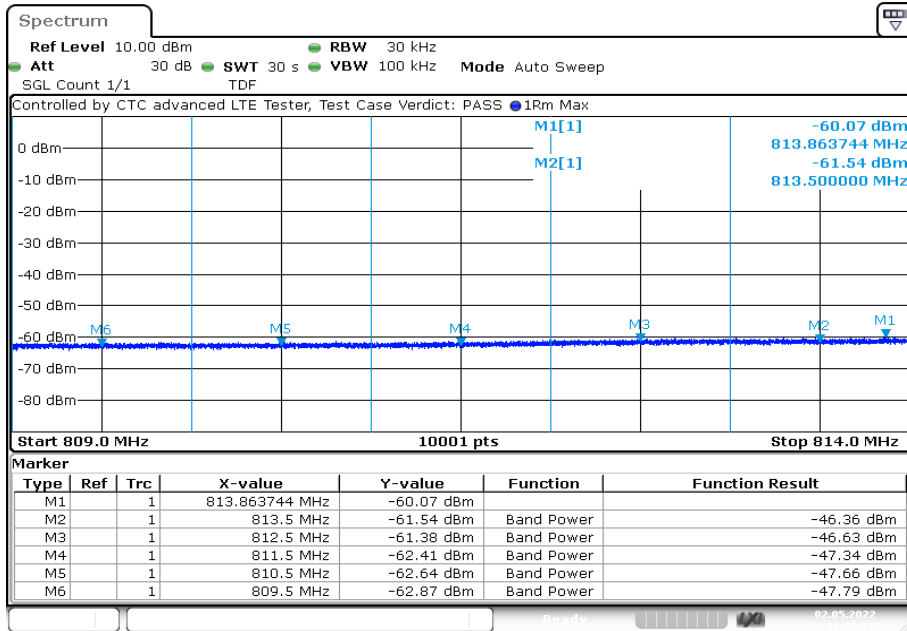
Date: 2.MAY.2022 16:01:40

Plot 2: 1.4 MHz – QPSK - Highest channel

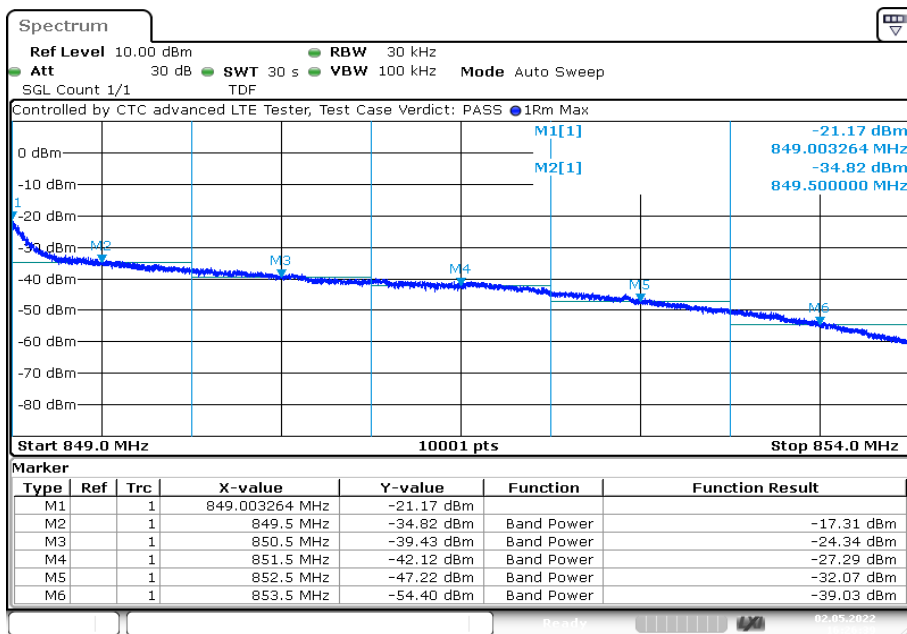


Date: 2.MAY.2022 16:11:24

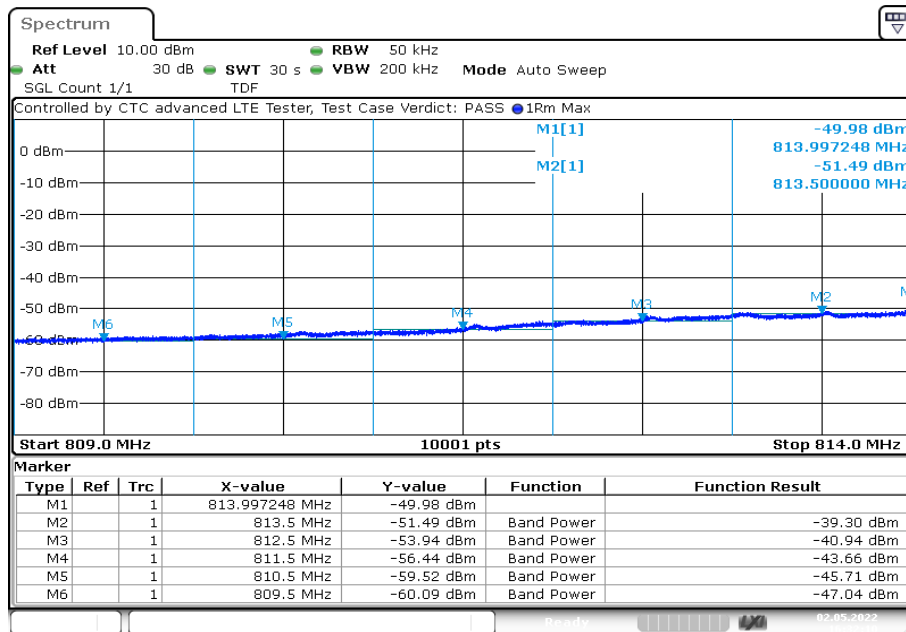
Plot 3: 3 MHz – QPSK - Lowest channel



Plot 4: 3 MHz – QPSK - Highest channel

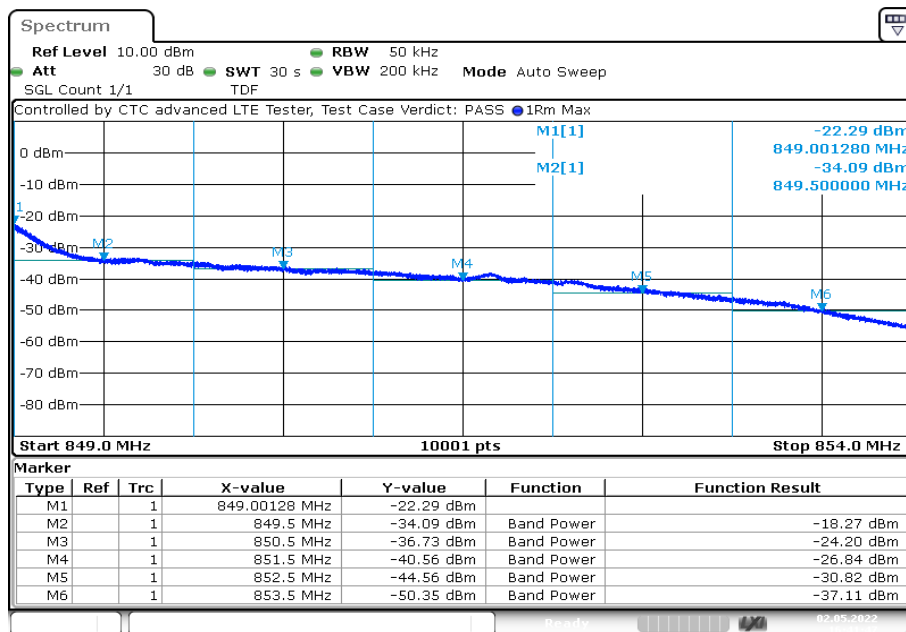


Plot 5: 5 MHz – QPSK - Lowest channel



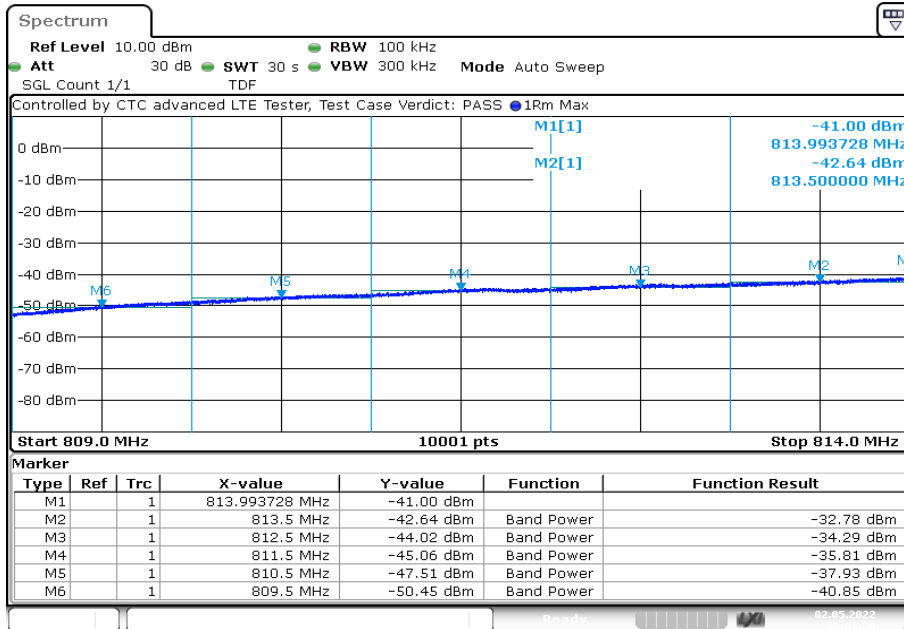
Date: 2.MAY.2022 16:32:11

Plot 6: 5 MHz – QPSK - Highest channel



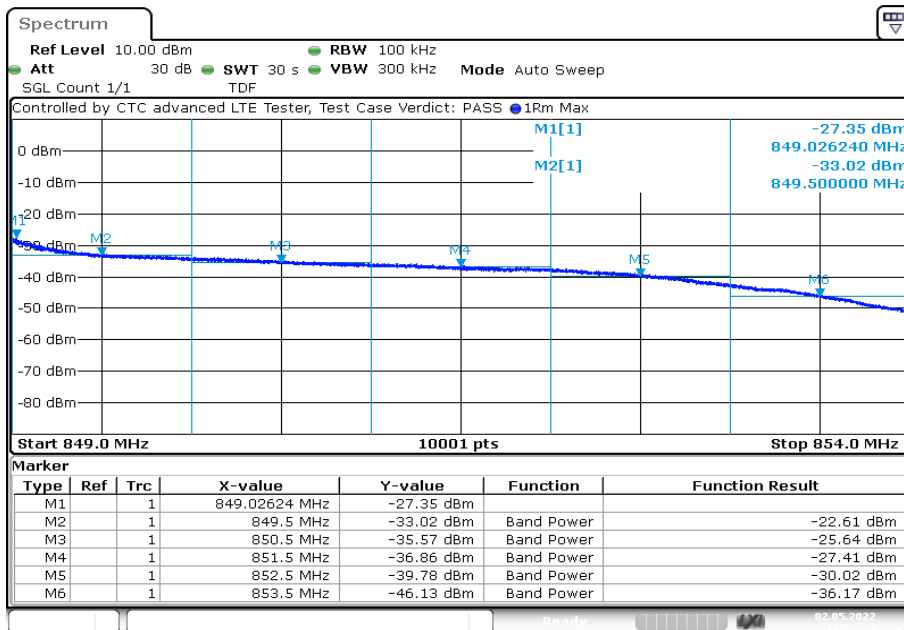
Date: 2.MAY.2022 16:41:48

Plot 7: 10 MHz – QPSK - Lowest channel



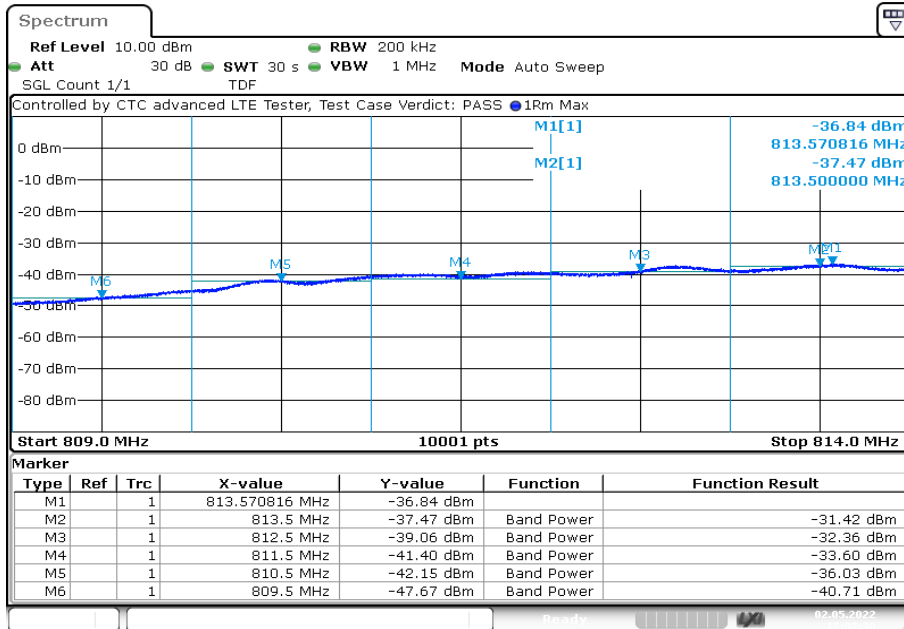
Date: 2.MAY.2022 16:47:21

Plot 8: 10 MHz – QPSK - Highest channel



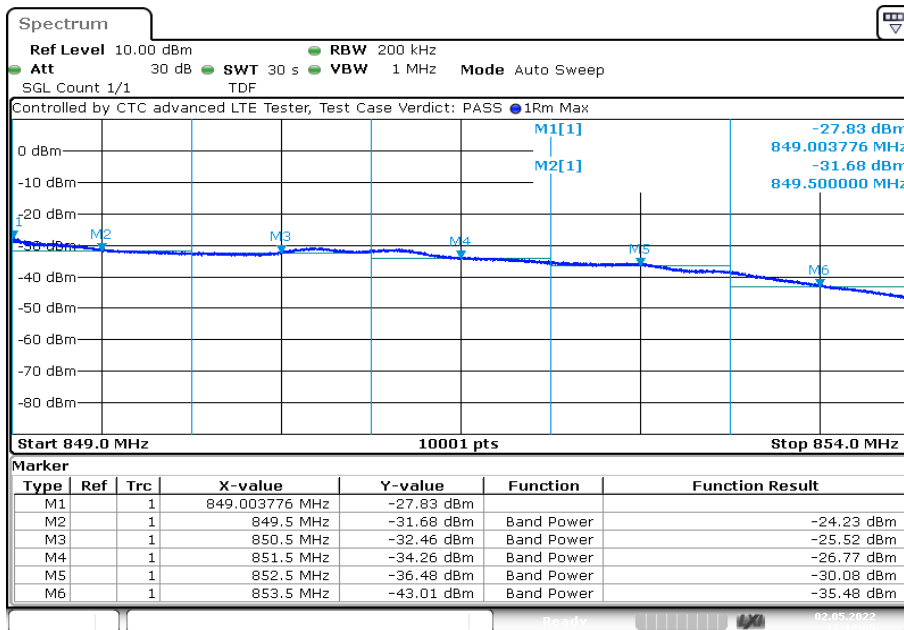
Date: 2.MAY.2022 16:56:59

Plot 9: 15 MHz – QPSK - Lowest channel



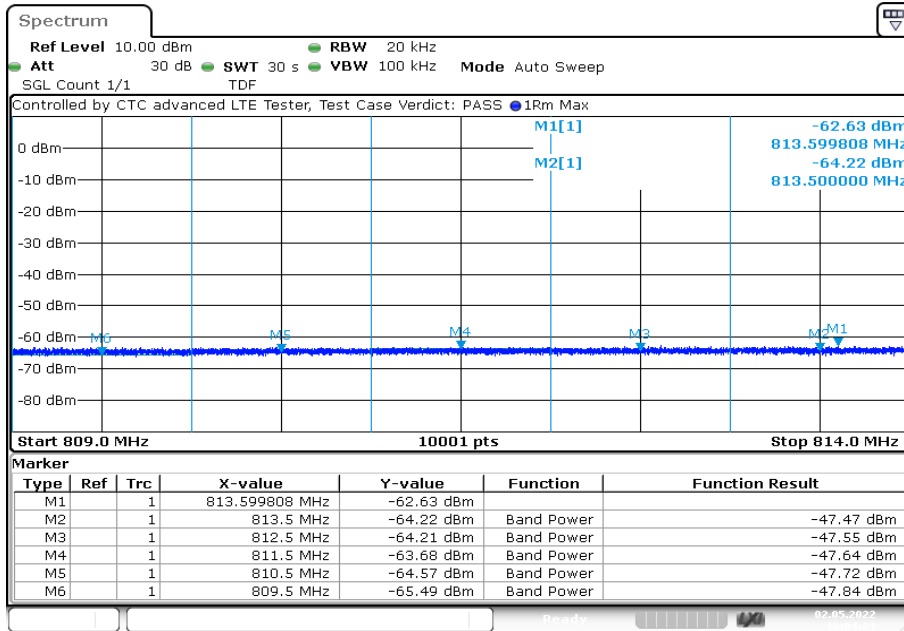
Date: 2.MAY.2022 17:02:31

Plot 10: 15 MHz – QPSK - Highest channel



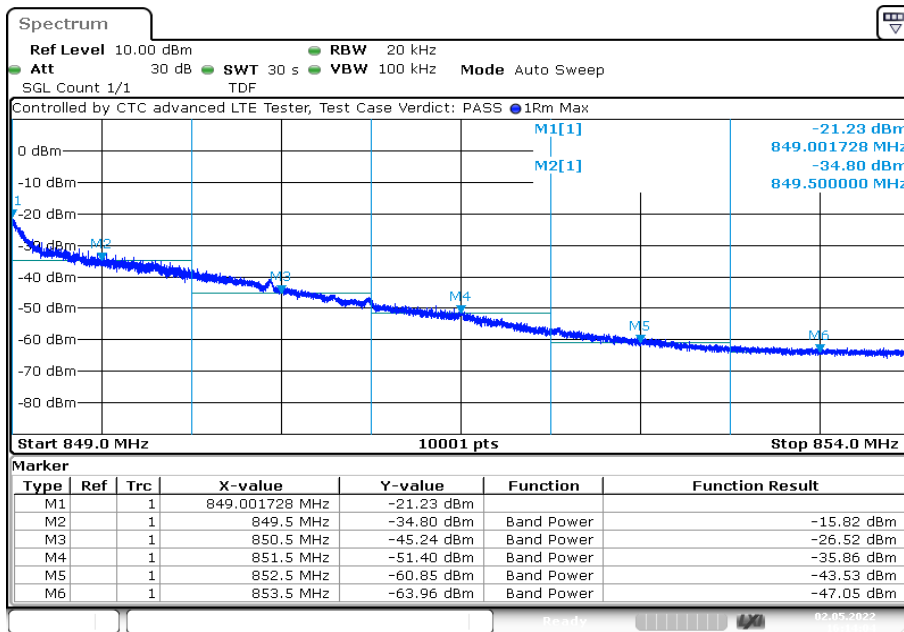
Date: 2.MAY.2022 17:12:06

Plot 11: 1.4 MHz – 16-QAM - Lowest channel



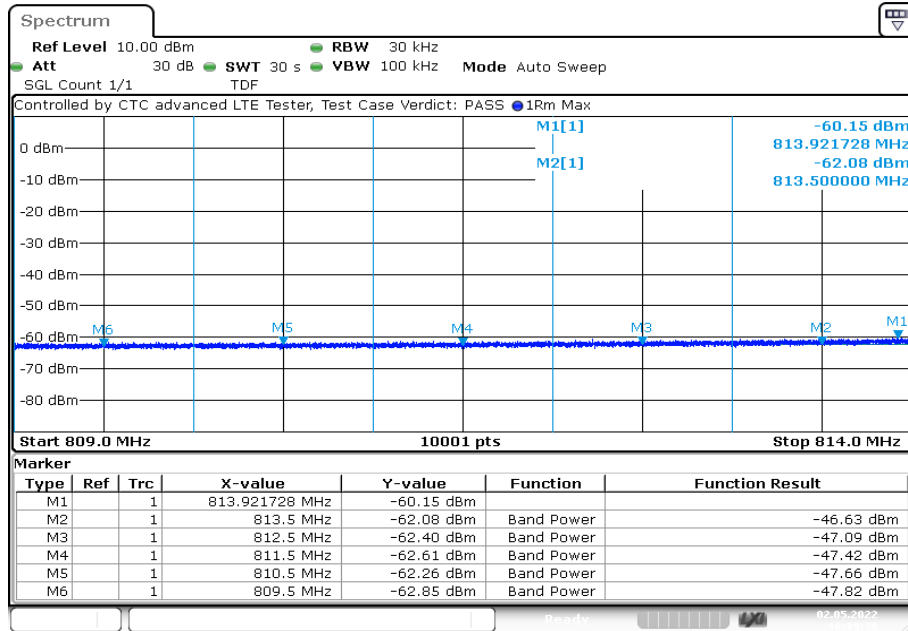
Date: 2.MAY.2022 16:04:22

Plot 12: 1.4 MHz – 16-QAM - Highest channel

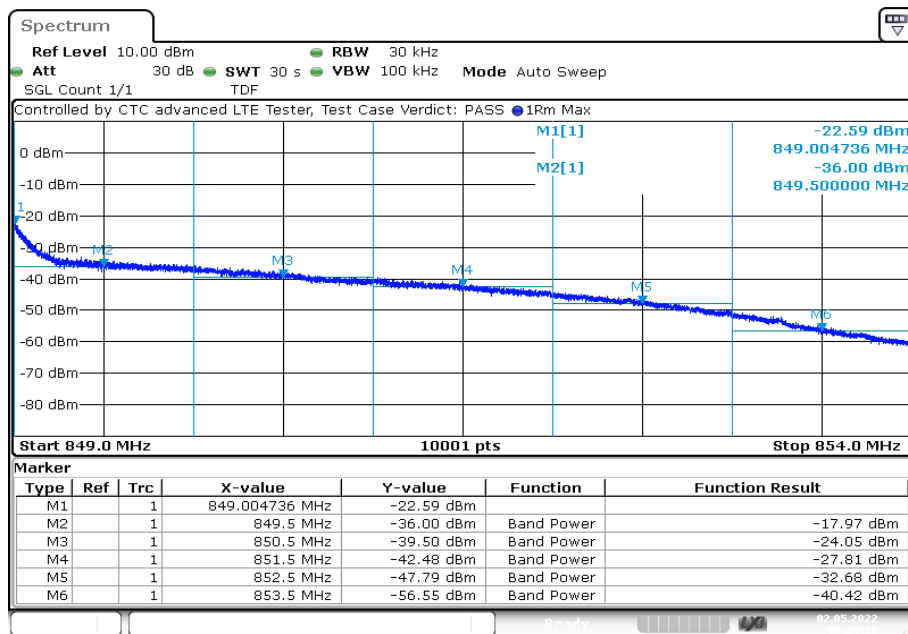


Date: 2.MAY.2022 16:14:04

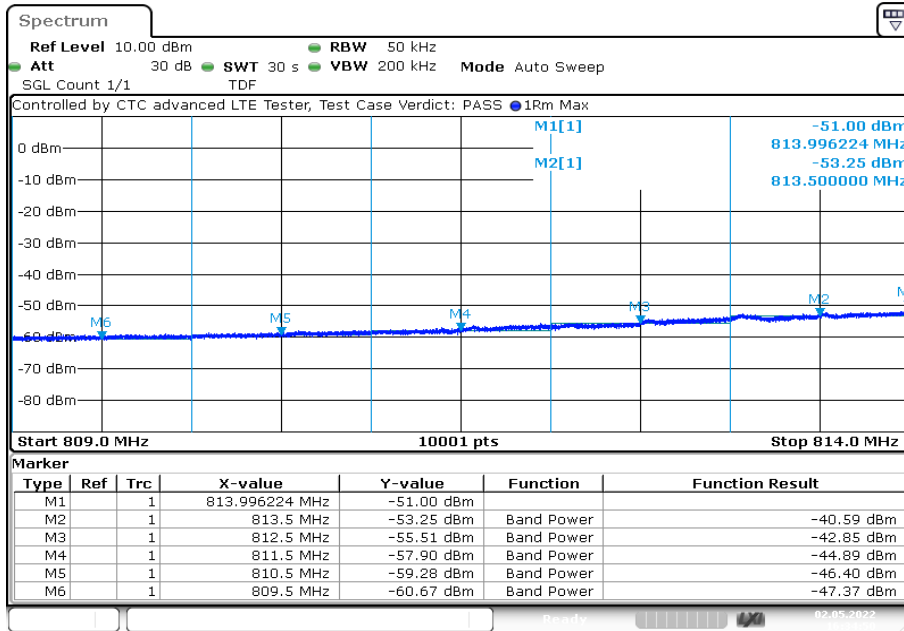
Plot 13: 3 MHz – 16-QAM - Lowest channel



Plot 14: 3 MHz – 16-QAM - Highest channel

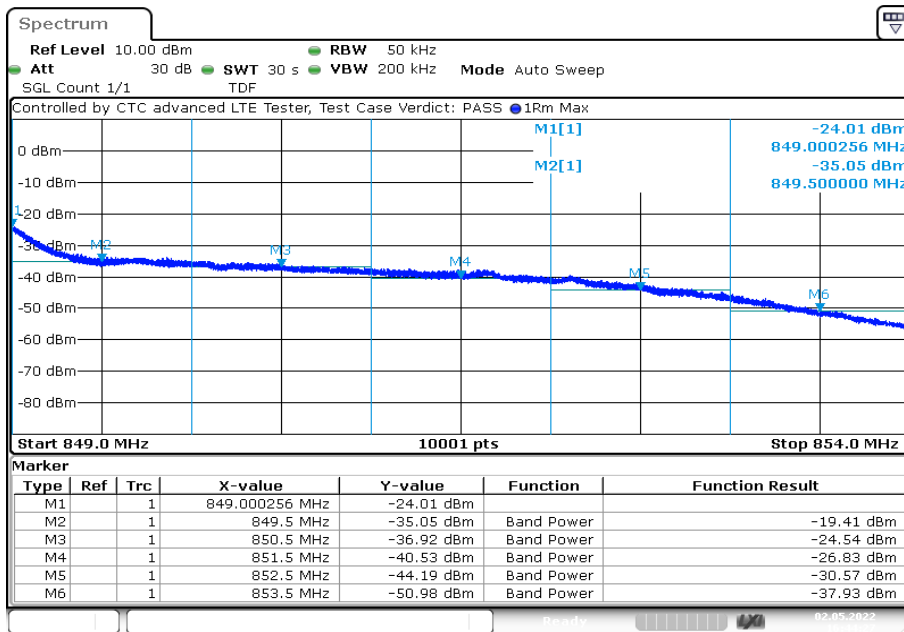


Plot 15: 5 MHz – 16-QAM - Lowest channel



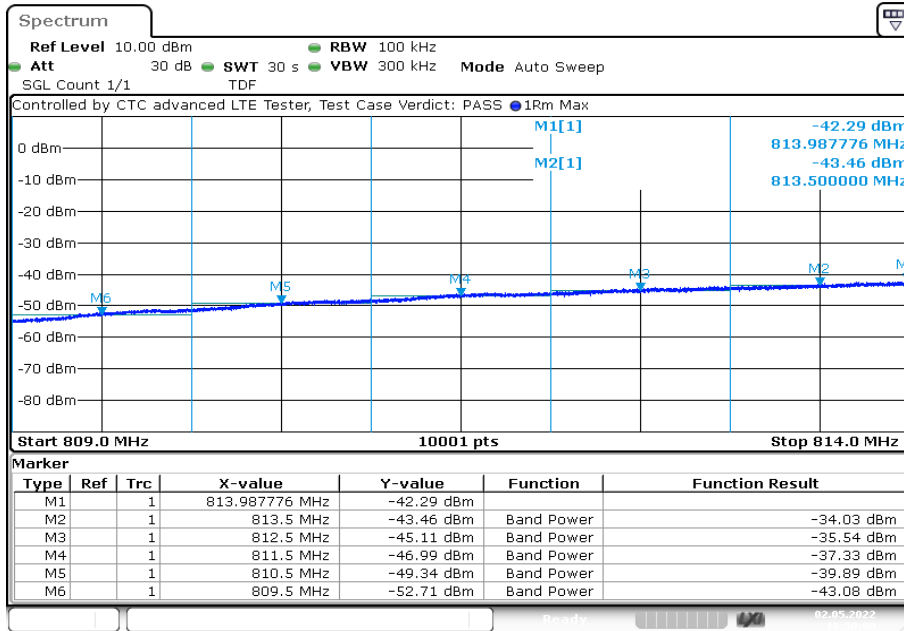
Date: 2.MAY.2022 16:34:50

Plot 16: 5 MHz – 16-QAM - Highest channel



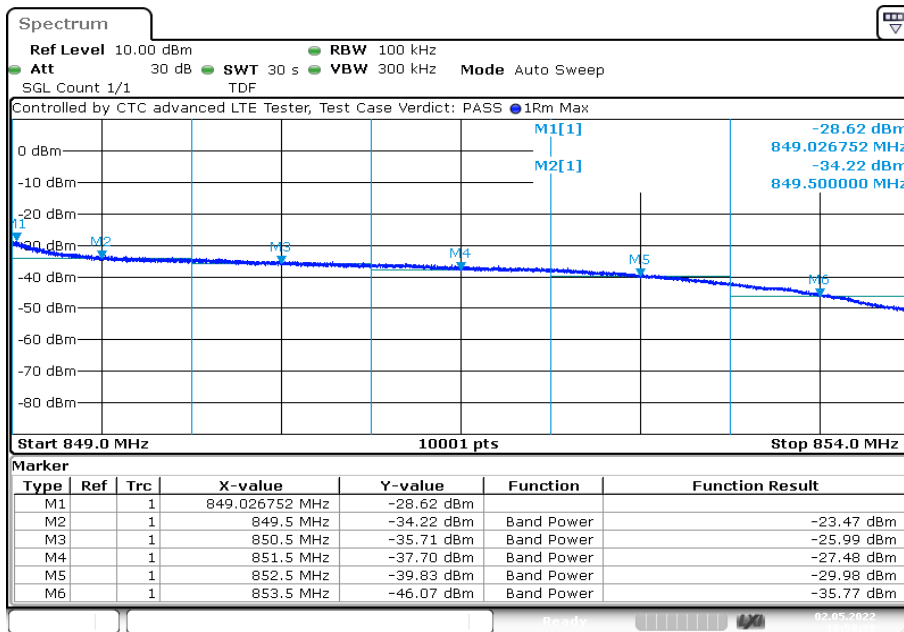
Date: 2.MAY.2022 16:44:28

Plot 17: 10 MHz – 16-QAM - Lowest channel



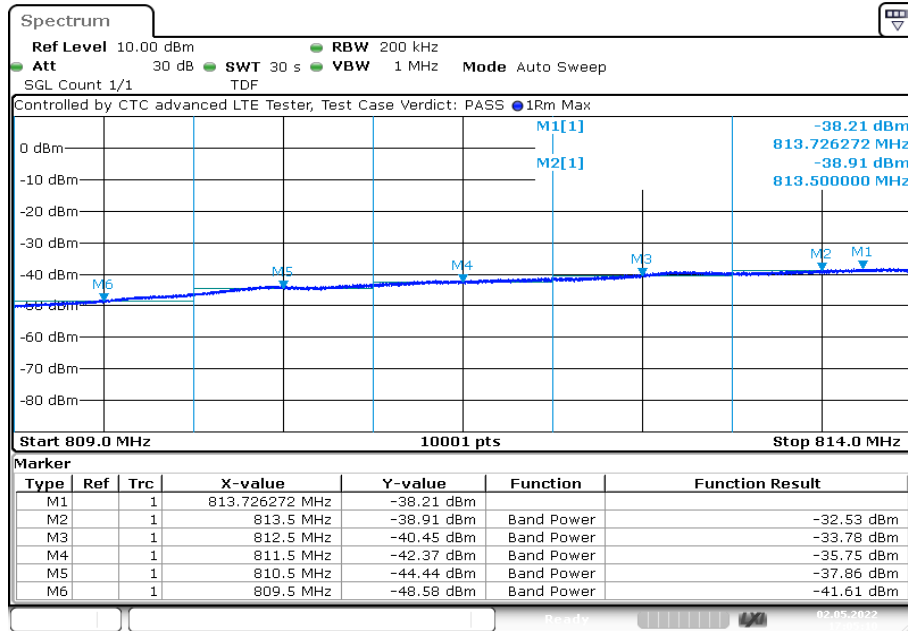
Date: 2.MAY.2022 16:50:01

Plot 18: 10 MHz – 16-QAM - Highest channel



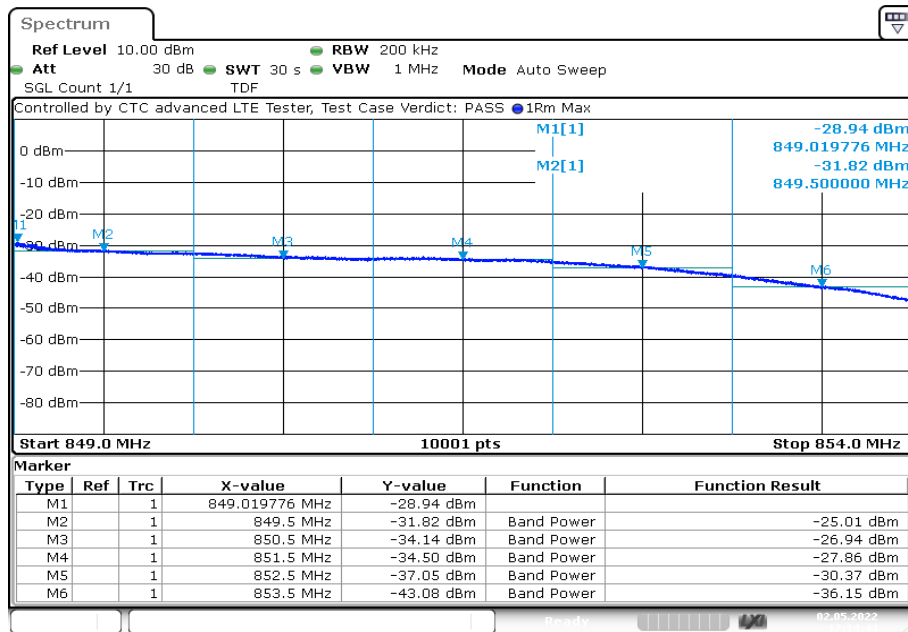
Date: 2.MAY.2022 16:59:38

Plot 19: 15 MHz – 16-QAM - Lowest channel



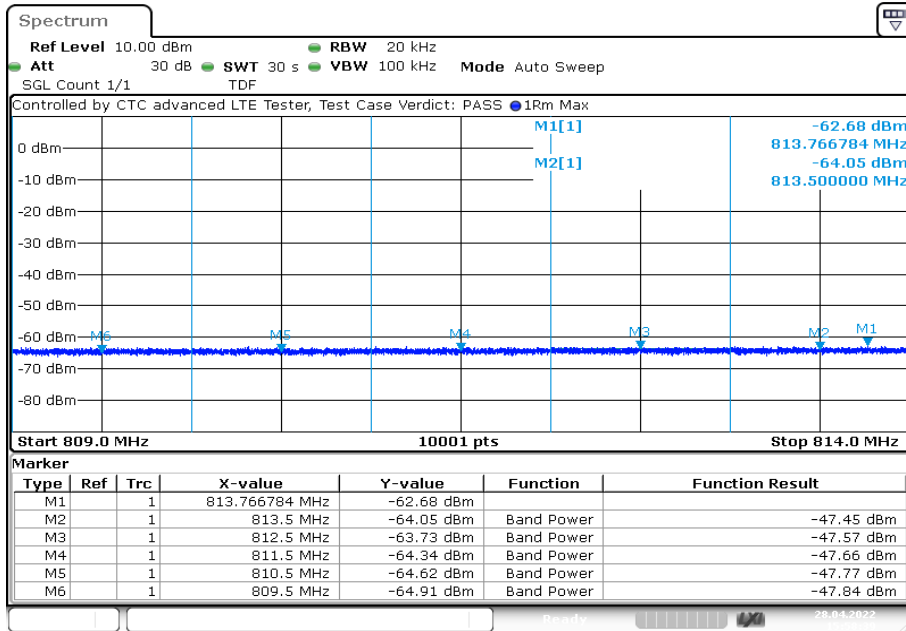
Date: 2.MAY.2022 17:05:10

Plot 20: 15 MHz – 16-QAM - Highest channel



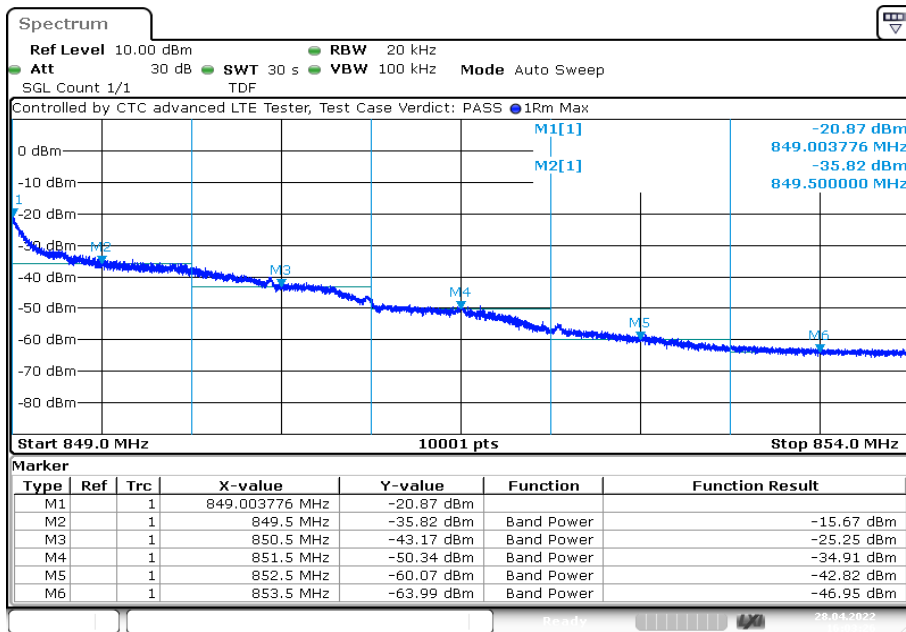
Date: 2.MAY.2022 17:14:45

Plot 21: 1.4 MHz – 64-QAM - Lowest channel



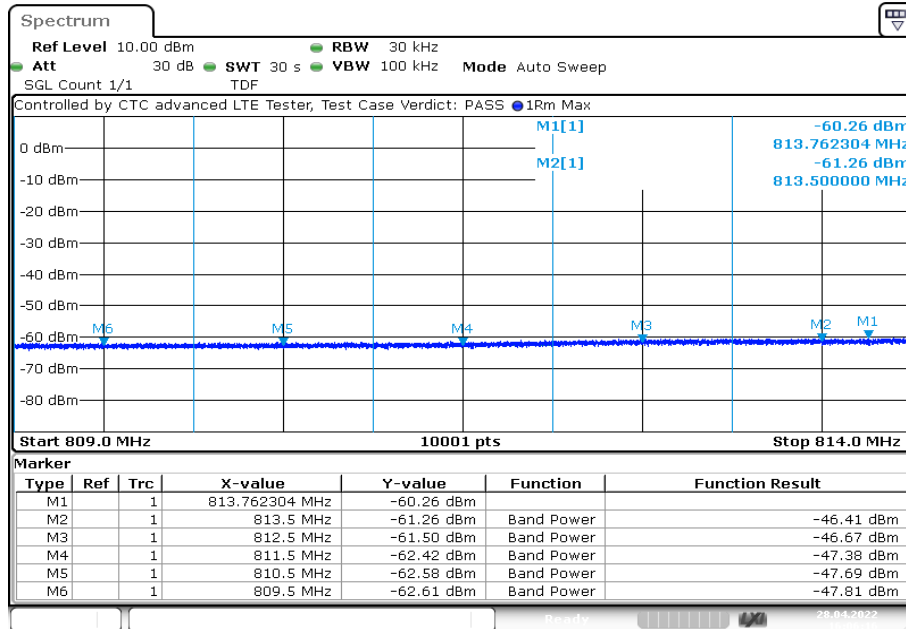
Date: 28.APR.2022 15:58:39

Plot 22: 1.4 MHz – 64-QAM - Highest channel



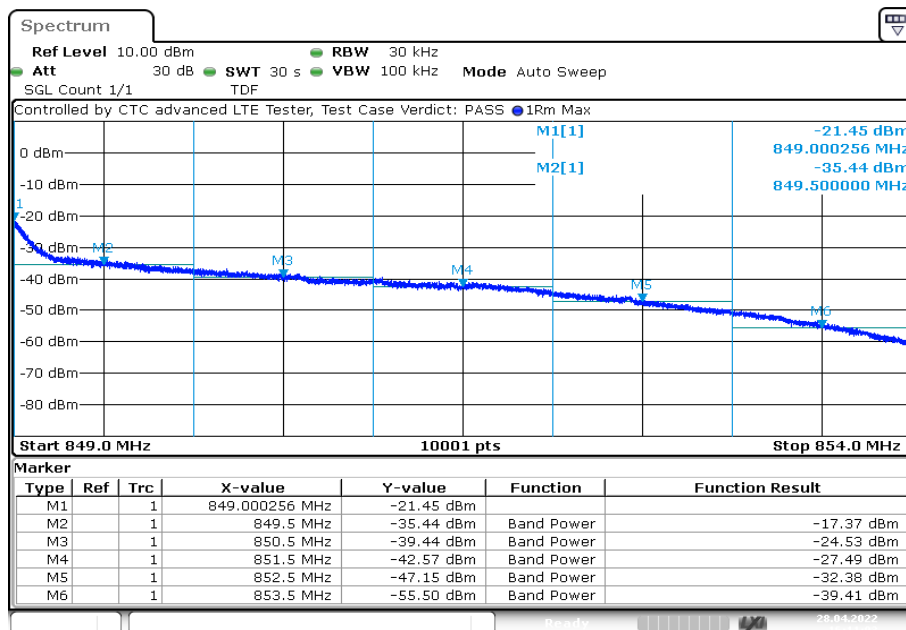
Date: 28.APR.2022 16:03:25

Plot 23: 3 MHz – 64-QAM - Lowest channel



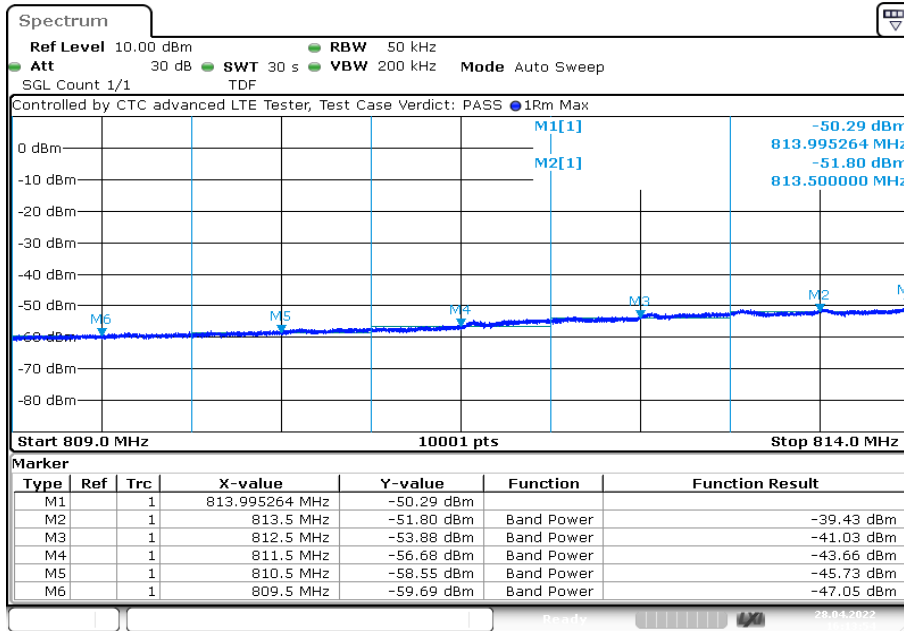
Date: 28.APR.2022 16:06:16

Plot 24: 3 MHz – 64-QAM - Highest channel



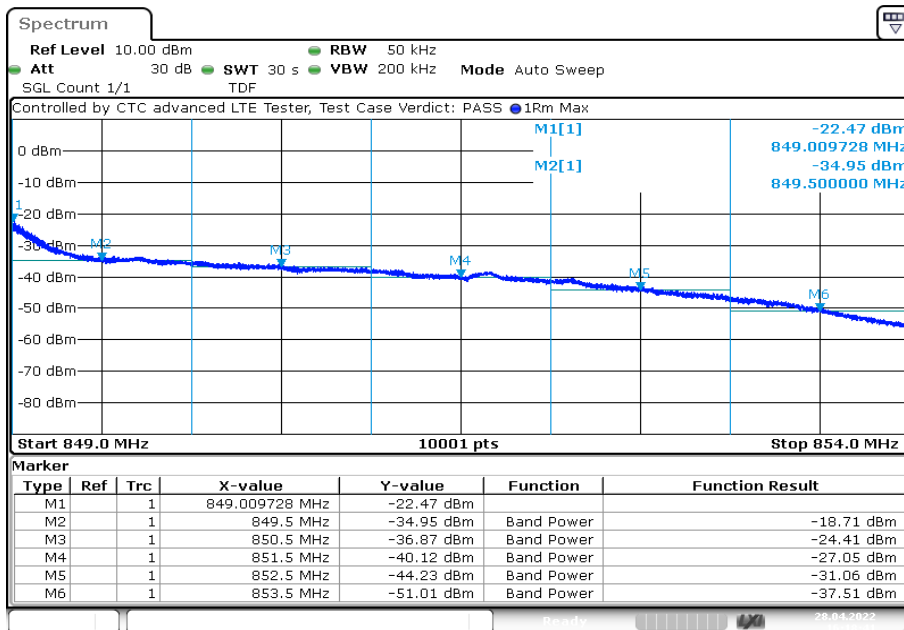
Date: 28.APR.2022 16:11:03

Plot 25: 5 MHz – 64-QAM - Lowest channel



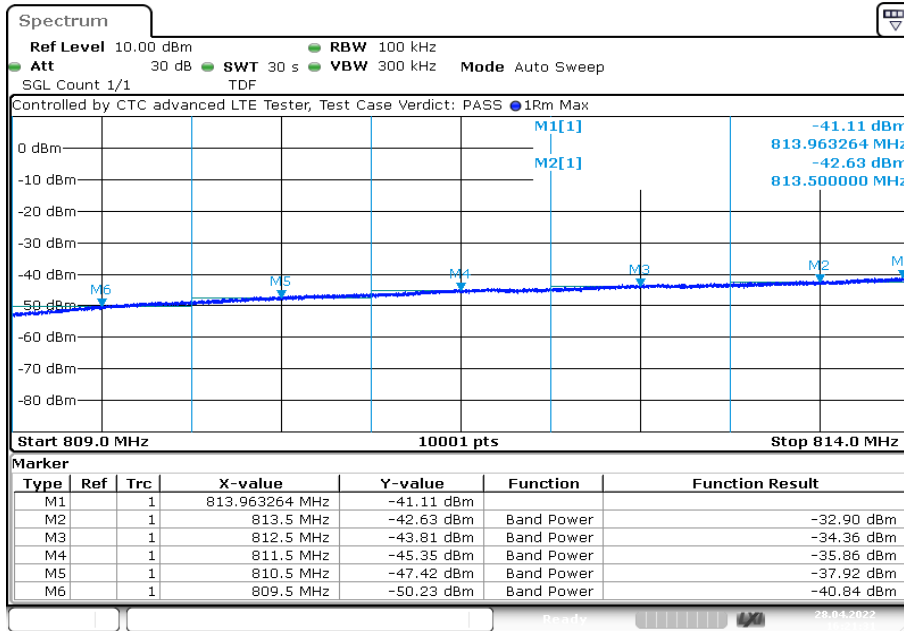
Date: 28.APR.2022 16:13:54

Plot 26: 5 MHz – 64-QAM - Highest channel



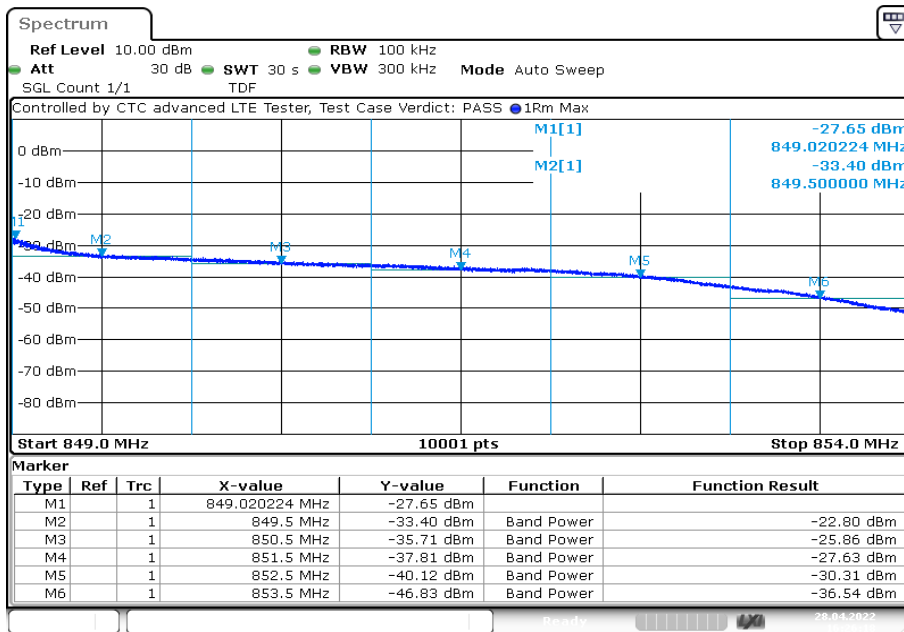
Date: 28.APR.2022 16:18:40

Plot 27: 10 MHz – 64-QAM - Lowest channel



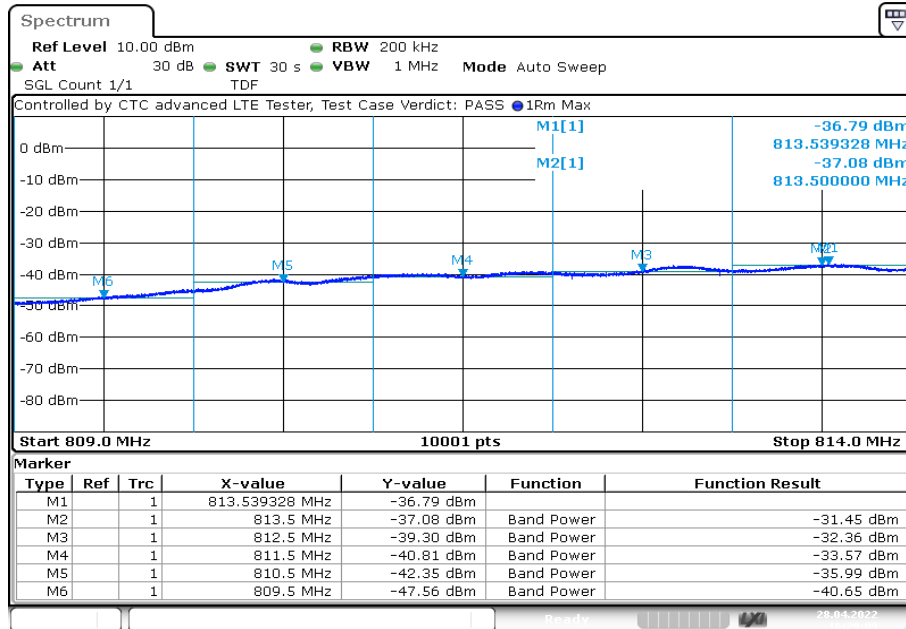
Date: 28.APR.2022 16:21:31

Plot 28: 10 MHz – 64-QAM - Highest channel



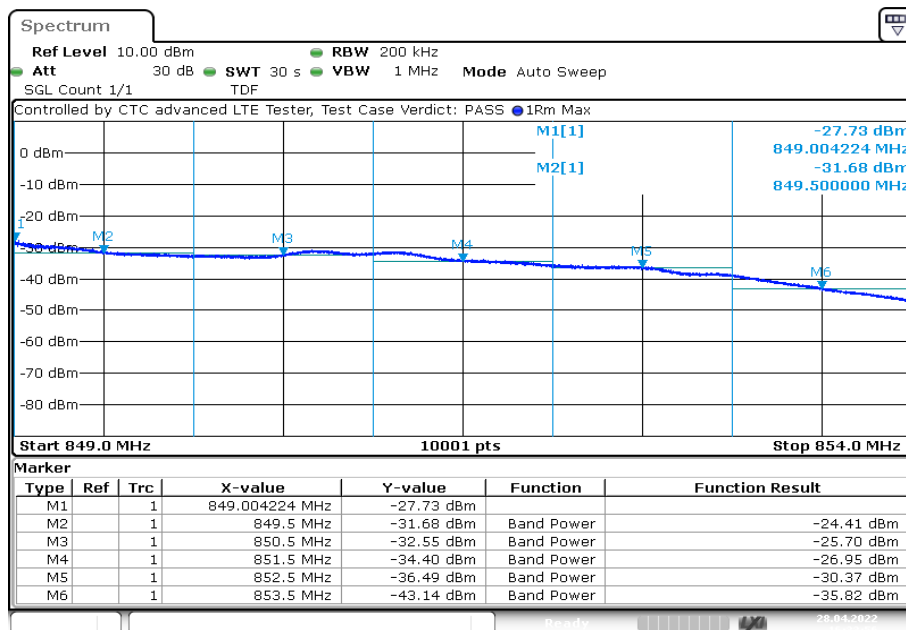
Date: 28.APR.2022 16:26:18

Plot 29: 15 MHz – 64-QAM - Lowest channel



Date: 28.APR.2022 16:29:09

Plot 30: 15 MHz – 64-QAM - Highest channel



Date: 28.APR.2022 16:33:56

11.2.6 Occupied bandwidth

Description:

Measurement of the occupied bandwidth of the transmitted signal.

Measurement:

Data were taken at the extreme and middle frequencies of the LTE bands 5 + 26a. The table below lists the measured 99% power and -26dBc occupied bandwidths. Spectrum analyzer plots are included on the following pages.

Measurement parameters	
Detector:	Peak
Sweep time:	180s
Resolution bandwidth:	30 kHz
Video bandwidth:	100 kHz
Span:	2 x nominal BW
Trace mode:	Max Hold
Used equipment:	See chapter 7.2 setup A
Measurement uncertainty:	See chapter 8
Measurement procedure:	FCC: § 2.1049

Limits:

FCC
§ 2.1049
Reporting only

Results:

Occupied Bandwidth – QPSK – LTE 5			
Bandwidth	Channel	99% OBW (kHz)	-26 dBc BW (kHz)
1.4	low	1101.7	1373.0
	mid	1101.1	1388.2
	high	1100.6	1374.3
3.0	low	2744.7	3150.9
	mid	2744.7	3157.5
	high	2742.9	3129.3
5.0	low	4521.5	5170.5
	mid	4525.5	5280.4
	high	4520.5	5119.5
10.0	low	9045.1	10253.0
	mid	9065.1	10263.0
	high	9041.1	10279.0

Occupied Bandwidth – QPSK – LTE 26a			
Bandwidth	Channel	99% OBW (kHz)	-26 dBc BW (kHz)
1.4	low	1100.8	1364.3
	mid	1100.0	1385.6
	high	1102.2	1389.8
3.0	low	2742.3	3159.3
	mid	2747.1	3145.5
	high	2741.7	3144.3
5.0	low	4525.5	5166.5
	mid	4514.5	5175.5
	high	4516.5	5178.4
10.0	low	9057.1	10340.1
	mid	9063.1	10219.0
	high	9041.1	10327.0
15.0	low	13456.7	14998.5
	mid	13480.7	14995.5
	high	13468.7	14932.5

Occupied Bandwidth – 16-QAM – LTE 5			
Bandwidth	Channel	99% OBW (kHz)	-26 dBc BW (kHz)
1.4	low	1103.4	1389.0
	mid	1107.3	1400.1
	high	1103.4	1419.5
3.0	low	2747.7	3154.4
	mid	2744.7	3137.1
	high	2744.7	3141.9
5.0	low	4523.5	5199.5
	mid	4524.5	5184.5
	high	4517.5	5175.4
10.0	low	9051.1	10203.0
	mid	9069.1	10263.0
	high	9041.1	10259.0

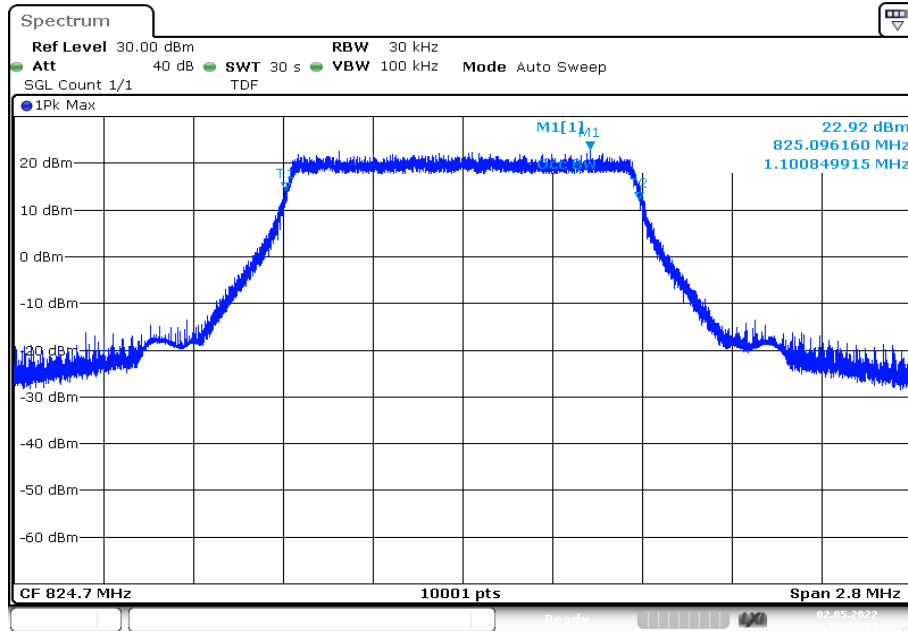
Occupied Bandwidth – 16-QAM			
Bandwidth	Channel	99% OBW (kHz)	-26 dBc BW (kHz)
1.4	low	1107.0	1377.8
	mid	1103.4	1377.8
	high	1103.4	1384.5
3.0	low	2745.9	3154.5
	mid	2747.7	3169.5
	high	2743.5	3141.2
5.0	low	4518.5	5228.5
	mid	4517.5	5210.5
	high	4517.5	5157.5
10.0	low	9057.1	10223.0
	mid	9061.1	10217.0
	high	9041.1	10265.0
15.0	low	13465.7	15037.5
	mid	13480.7	15058.5
	high	13465.7	14965.5

Occupied Bandwidth – 64-QAM – LTE 5			
Bandwidth	Channel	99% OBW (kHz)	-26 dBc BW (kHz)
1.4	low	1104.8	1394.0
	mid	1103.6	1401.5
	high	1106.7	1388.7
3.0	low	2742.3	3156.3
	mid	2744.7	3166.5
	high	2743.5	3139.5
5.0	low	4513.5	5166.5
	mid	4521.5	5205.4
	high	4517.5	5181.4
10.0	low	9049.1	10258.9
	mid	9067.1	10291.0
	high	9047.1	10254.9

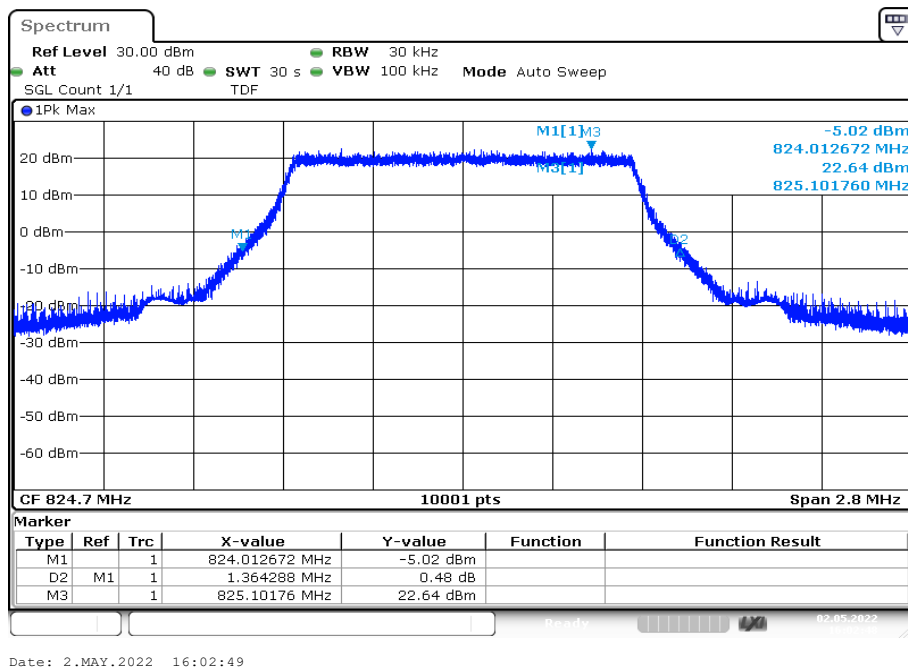
Occupied Bandwidth – 64-QAM			
Bandwidth	Channel	99% OBW (kHz)	-26 dBc BW (kHz)
1.4	low	1099.5	1375.7
	mid	1103.4	1381.9
	high	1100.6	1374.9
3.0	low	2742.3	3158.7
	mid	2743.5	3130.5
	high	2745.3	3167.0
5.0	low	4522.5	5204.5
	mid	4525.5	5267.4
	high	4505.5	5121.5
10.0	low	9053.1	10326.9
	mid	9061.1	10272.9
	high	9039.1	10232.9
15.0	low	13465.6	15064.4
	mid	13474.7	15073.5
	high	13462.6	15067.5

Plots: LTE band 26a

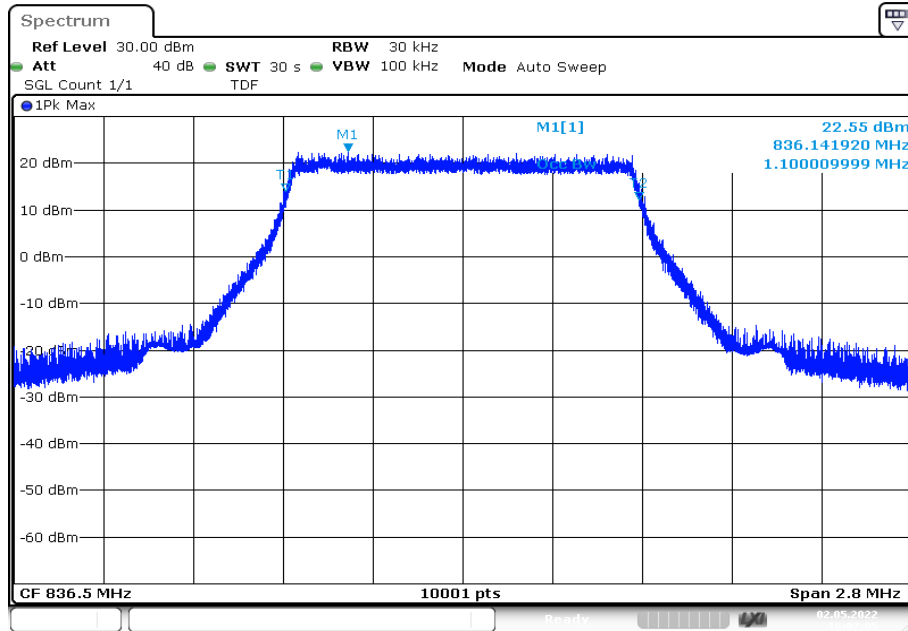
Plot 1: 1.4 MHz – QPSK - lowest channel (99% - OBW)



Plot 2: 1.4 MHz – QPSK - lowest channel (-26 dBc BW)

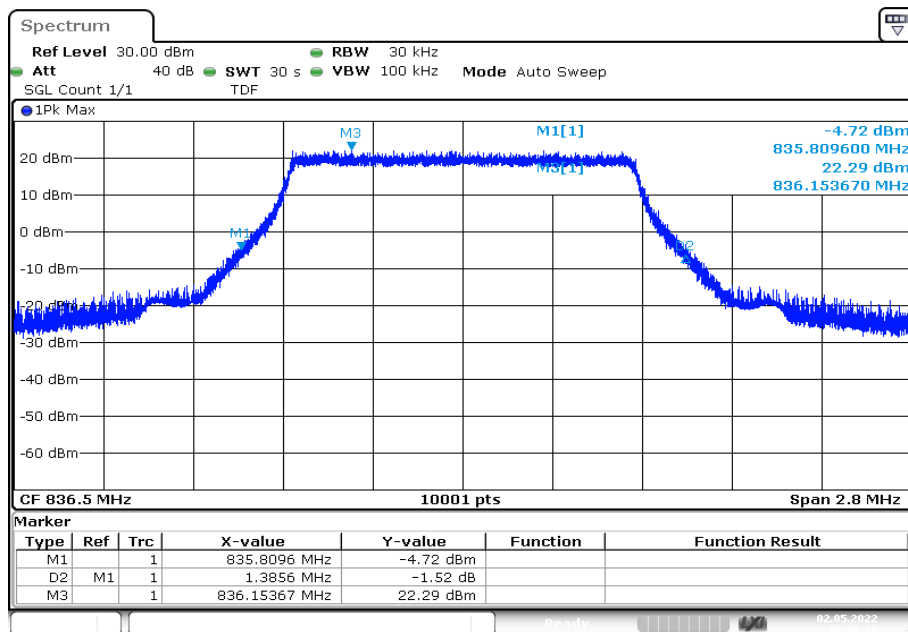


Plot 3: 1.4 MHz – QPSK – middle channel (99% - OBW)



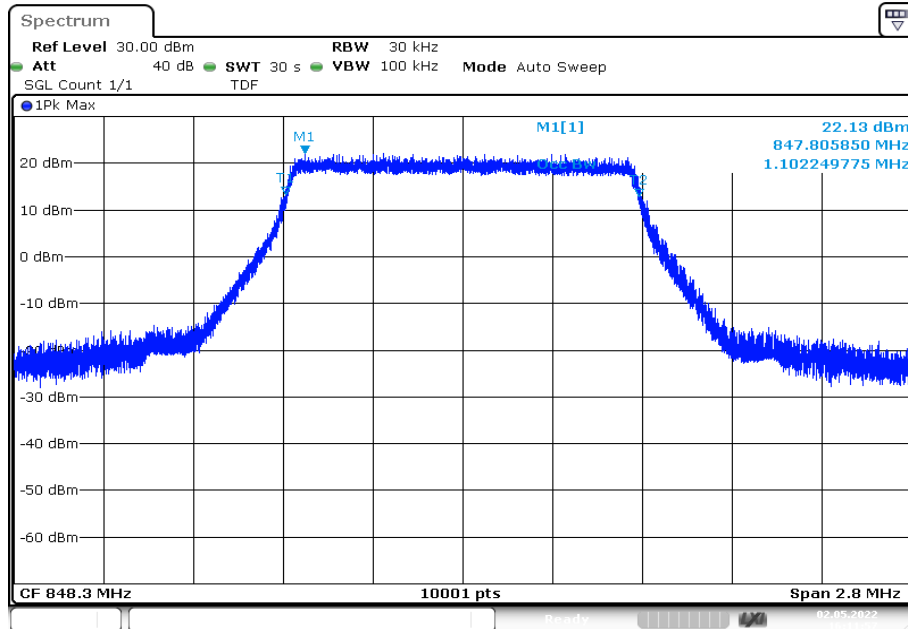
Date: 2.MAY.2022 16:07:06

Plot 4: 1.4 MHz – QPSK – middle channel (-26 dBc BW)



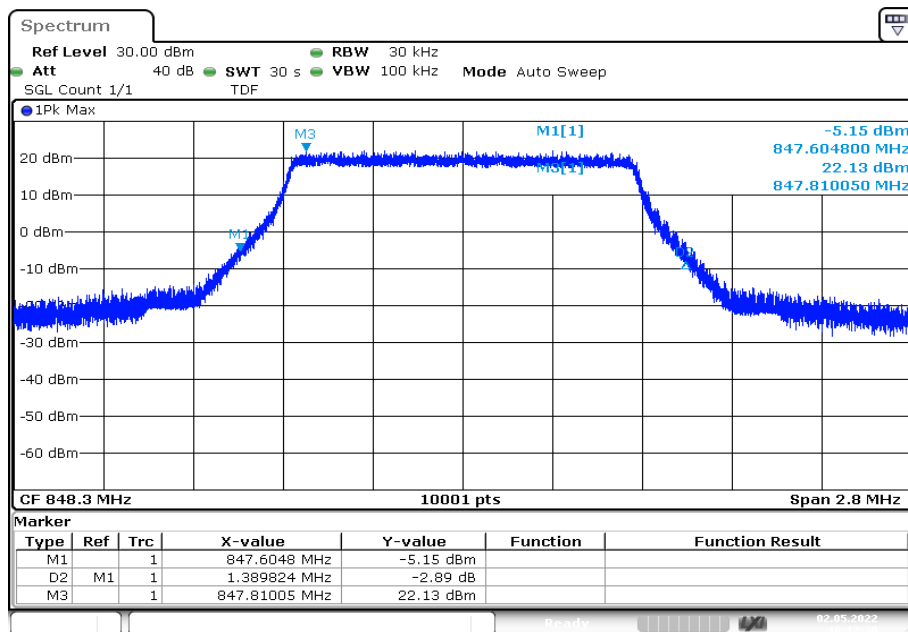
Date: 2.MAY.2022 16:07:40

Plot 5: 1.4 MHz – QPSK - highest channel (99% - OBW)



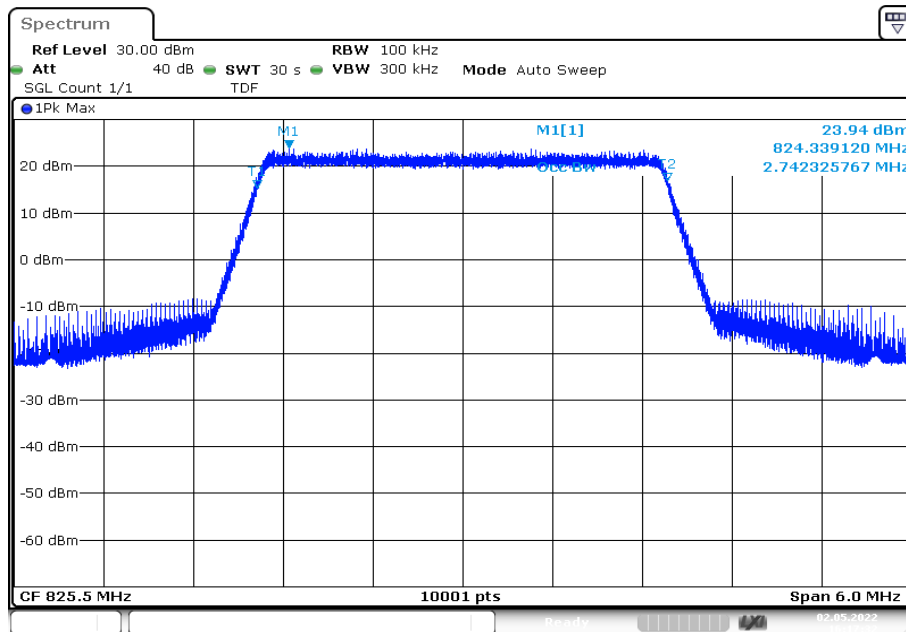
Date: 2.MAY.2022 16:11:57

Plot 6: 1.4 MHz – QPSK - highest channel (-26 dBc BW)



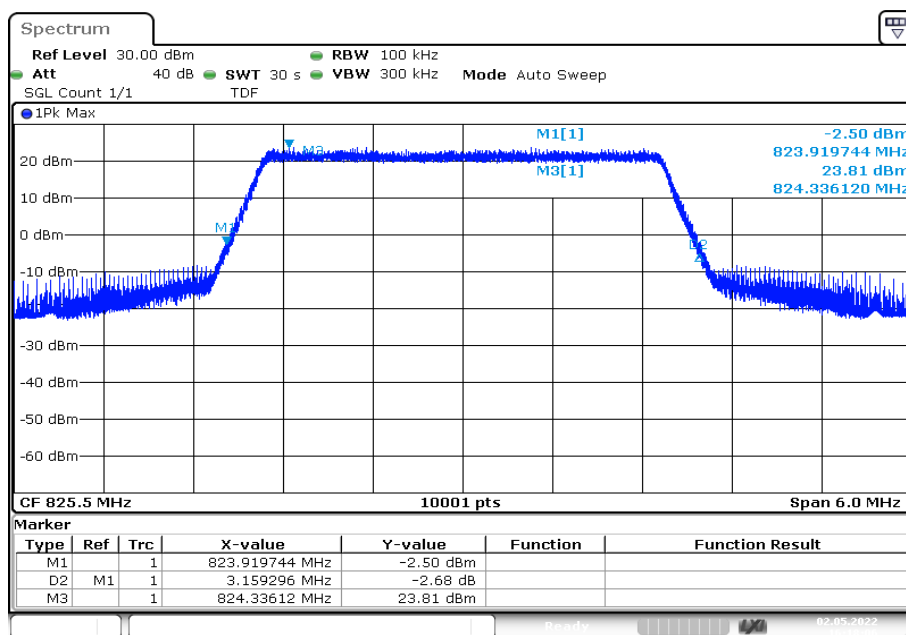
Date: 2.MAY.2022 16:12:31

Plot 7: 3 MHz – QPSK - lowest channel (99% - OBW)



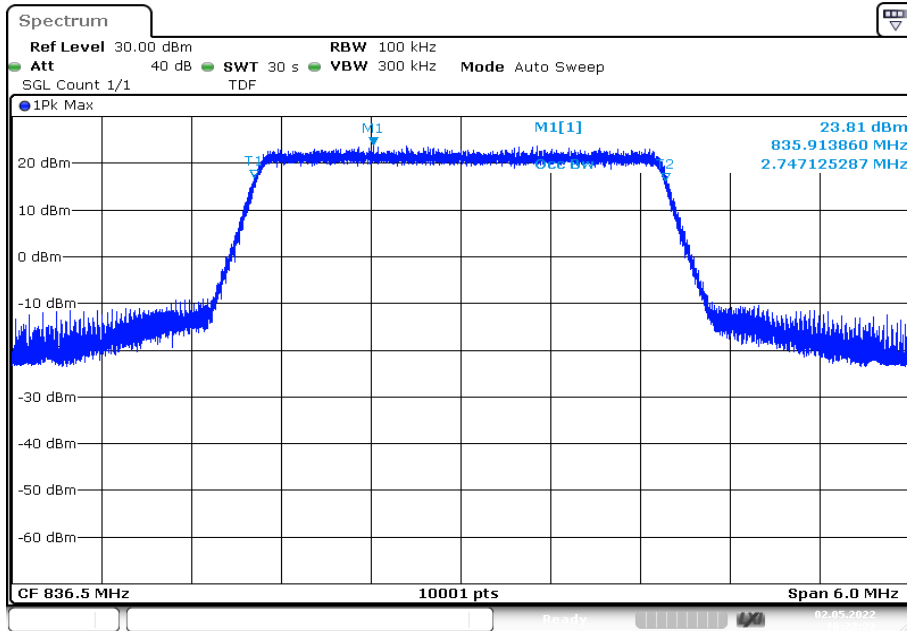
Date: 2.MAY.2022 16:17:33

Plot 8: 3 MHz – QPSK - lowest channel (-26 dBc BW)



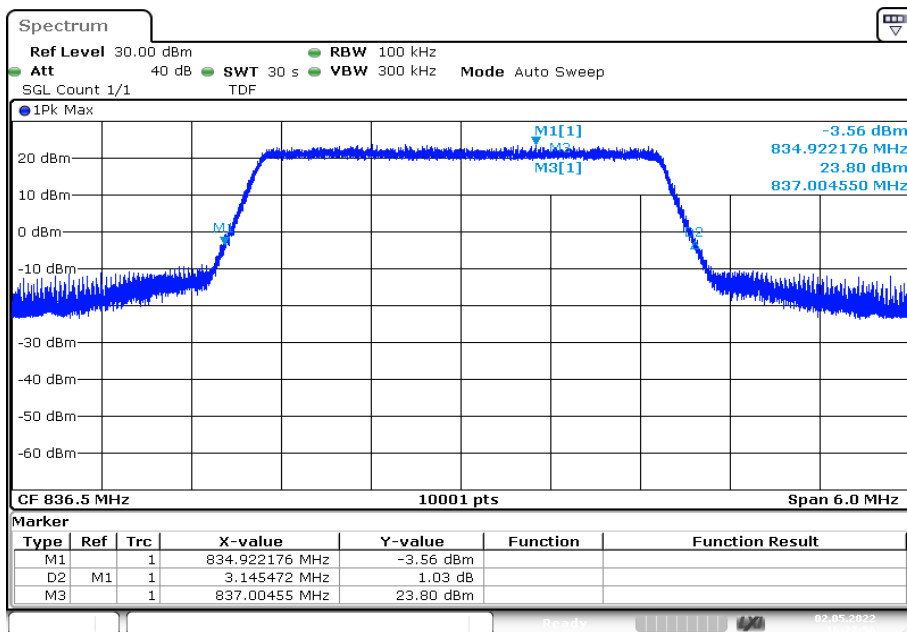
Date: 2.MAY.2022 16:18:06

Plot 9: 3 MHz – QPSK - middle channel (99% - OBW)



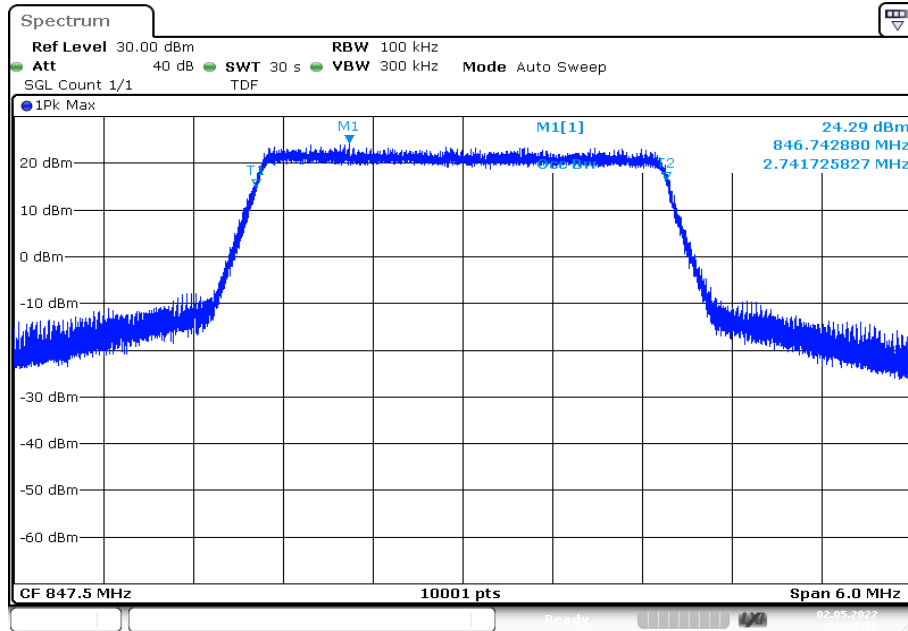
Date: 2.MAY.2022 16:22:23

Plot 10: 3 MHz – QPSK - middle channel (-26 dBc BW)



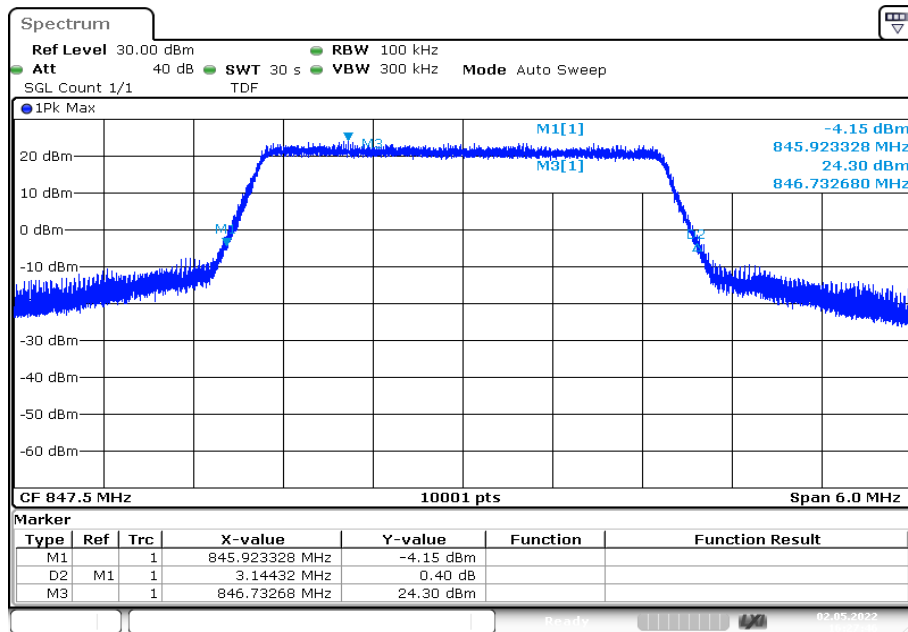
Date: 2.MAY.2022 16:22:56

Plot 11: 3 MHz – QPSK - highest channel (99% - OBW)



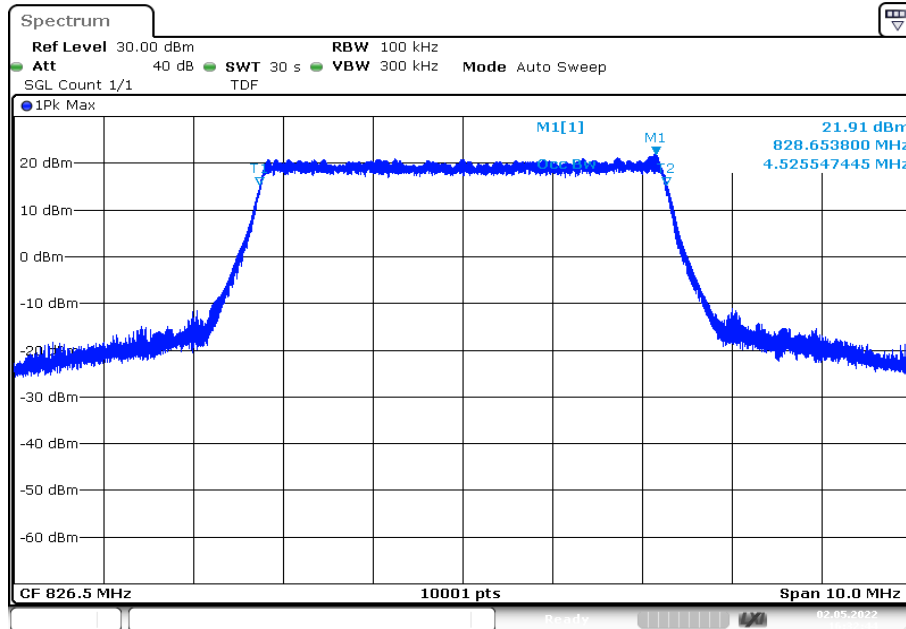
Date: 2.MAY.2022 16:27:13

Plot 12: 3 MHz – QPSK - highest channel (-26 dBc BW)



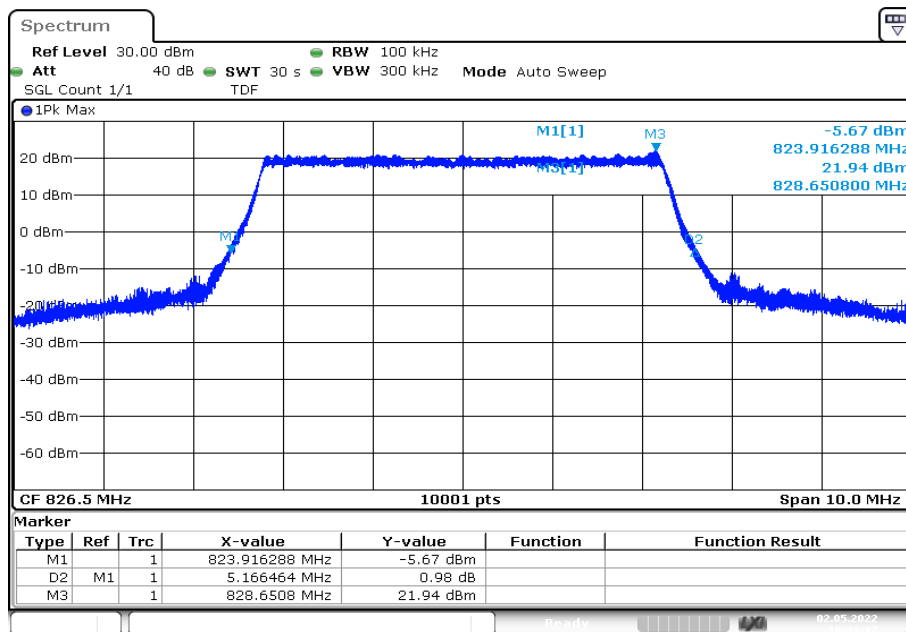
Date: 2.MAY.2022 16:27:46

Plot 13: 5 MHz – QPSK - lowest channel (99% - OBW)



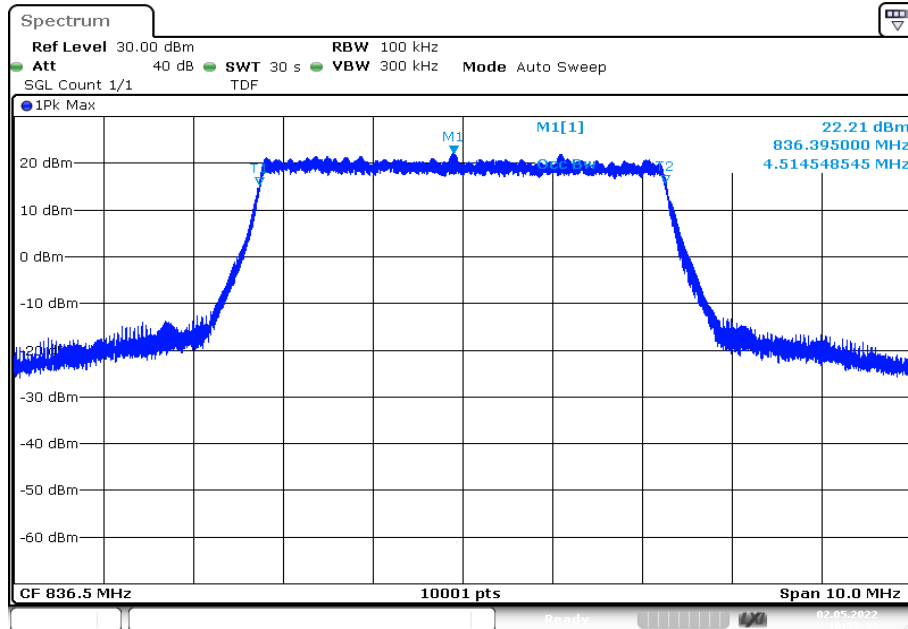
Date: 2.MAY.2022 16:32:44

Plot 14: 5 MHz – QPSK - lowest channel (-26 dBc BW)



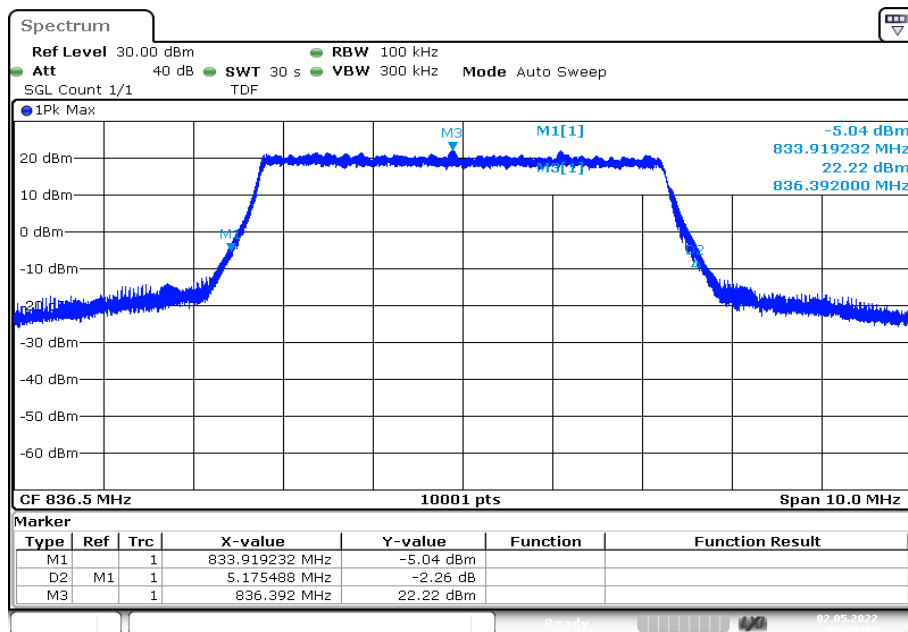
Date: 2.MAY.2022 16:33:18

Plot 15: 5 MHz – QPSK - middle channel (99% - OBW)



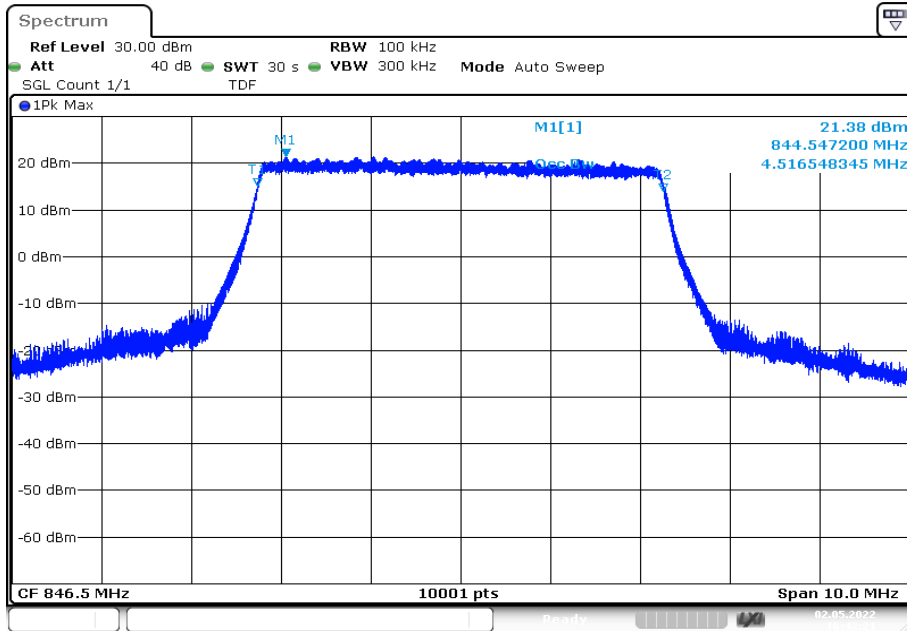
Date: 2.MAY.2022 16:37:33

Plot 16: 5 MHz – QPSK - middle channel (-26 dBc BW)



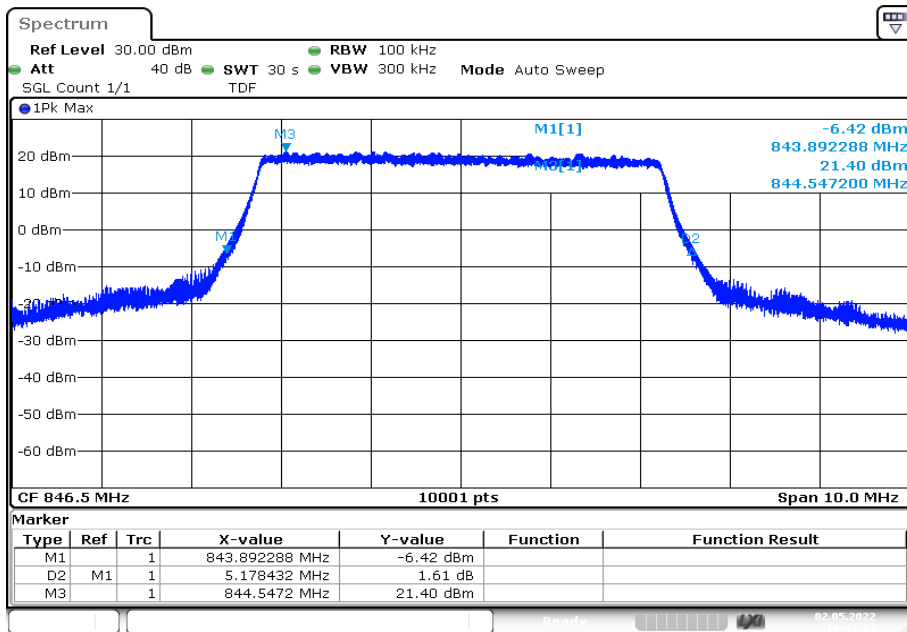
Date: 2.MAY.2022 16:38:06

Plot 17: 5 MHz – QPSK - highest channel (99% - OBW)



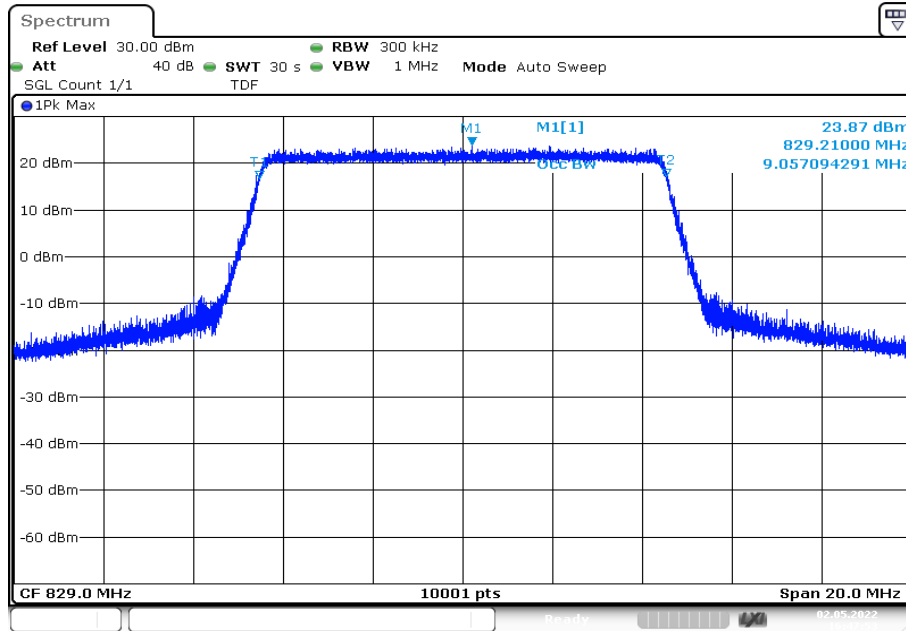
Date: 2.MAY.2022 16:42:21

Plot 18: 5 MHz – QPSK - highest channel (-26 dBc BW)

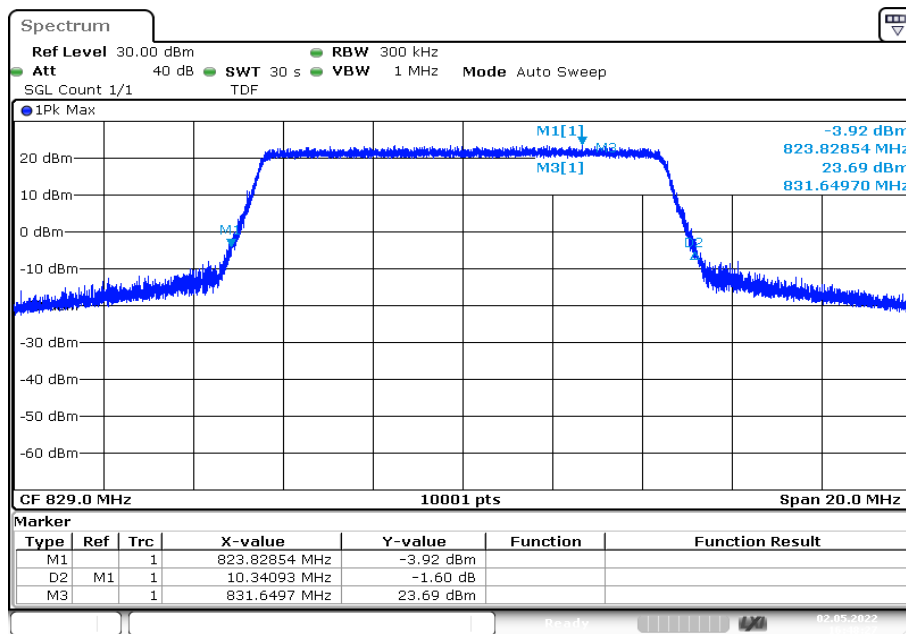


Date: 2.MAY.2022 16:42:55

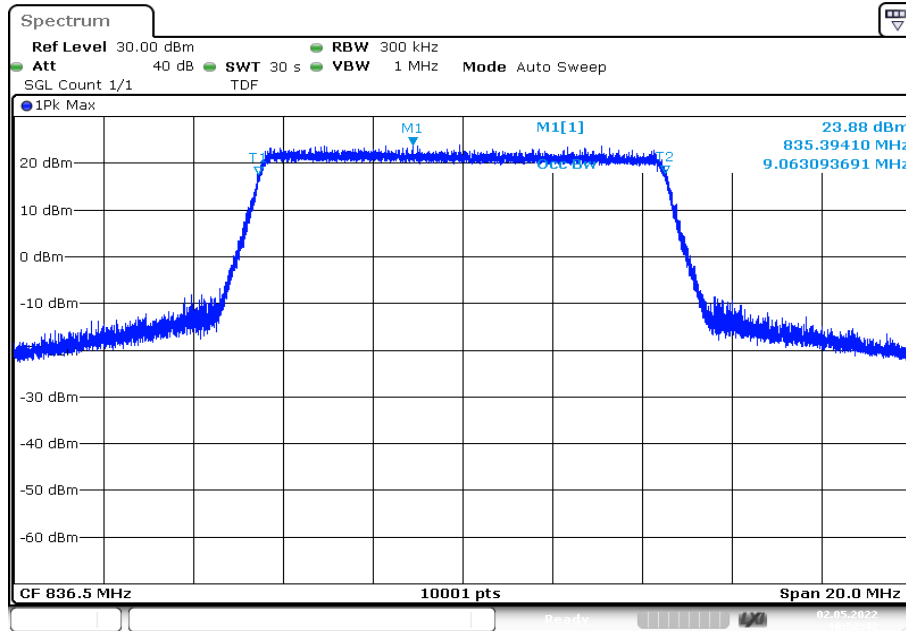
Plot 19: 10 MHz – QPSK - lowest channel (99% - OBW)



Plot 20: 10 MHz – QPSK - lowest channel (-26 dBc BW)

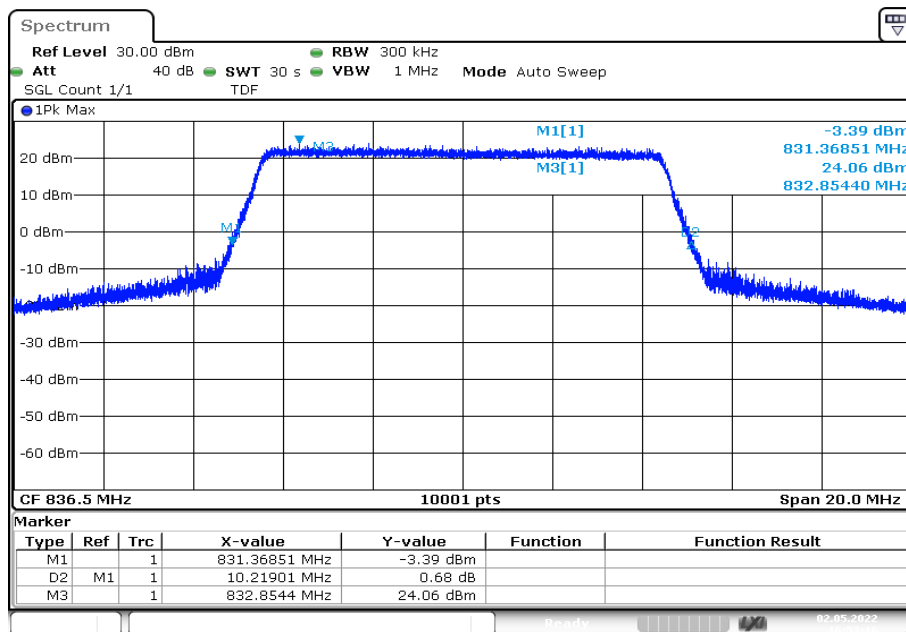


Plot 21: 10 MHz – QPSK - middle channel (99% - OBW)



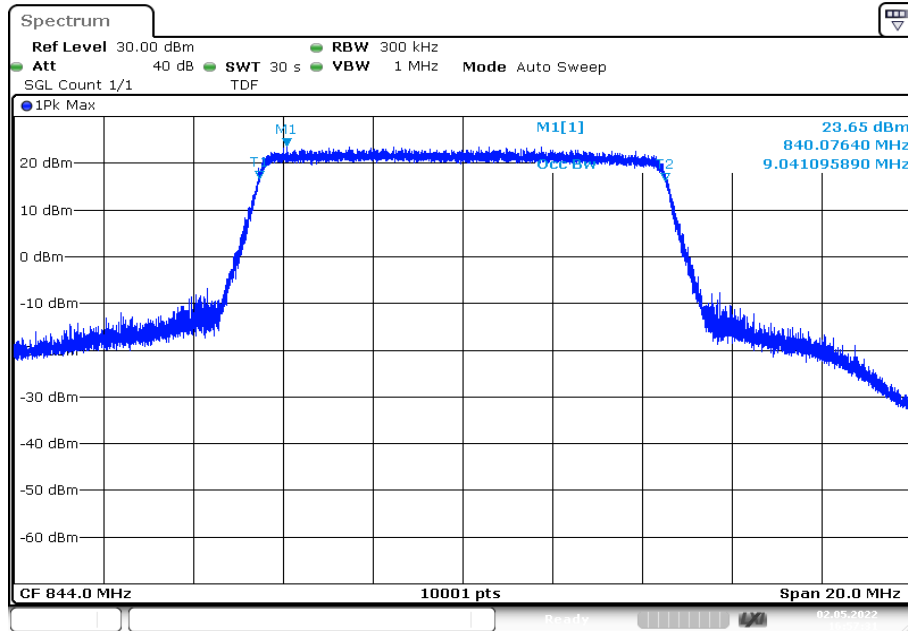
Date: 2.MAY.2022 16:52:43

Plot 22: 10 MHz – QPSK - middle channel (-26 dBc BW)

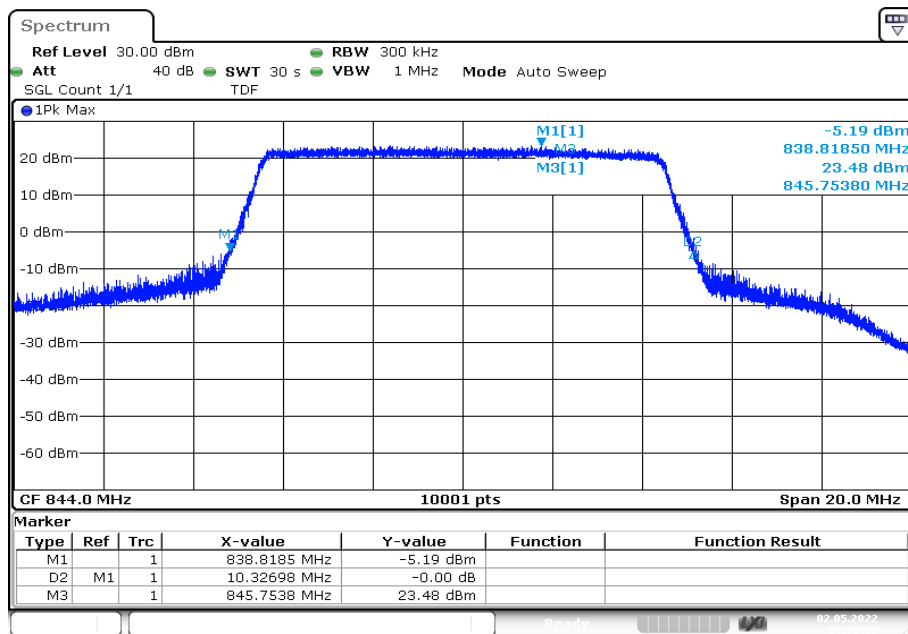


Date: 2.MAY.2022 16:53:17

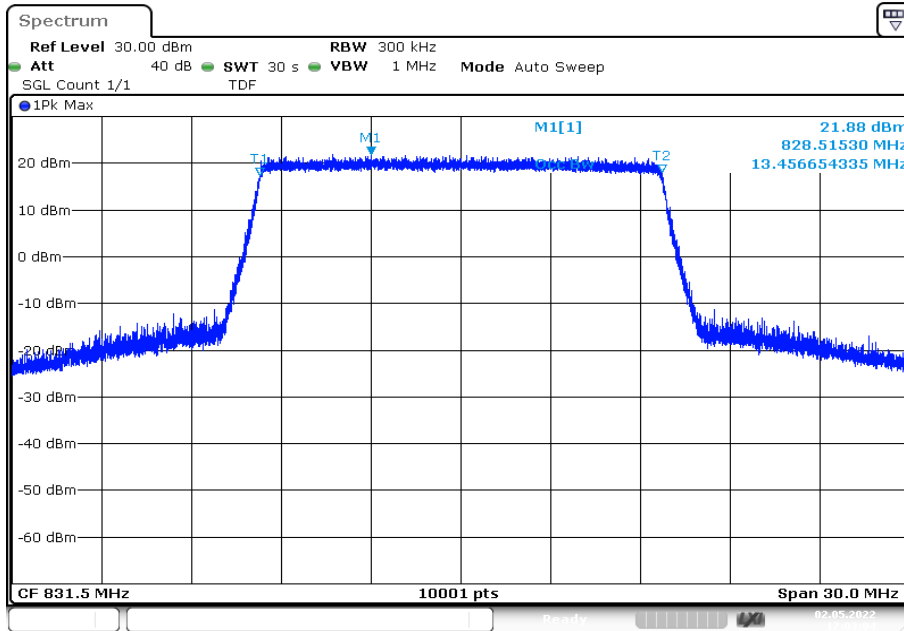
Plot 23: 10 MHz – QPSK - highest channel (99% - OBW)



Plot 24: 10 MHz – QPSK - highest channel (-26 dBc BW)

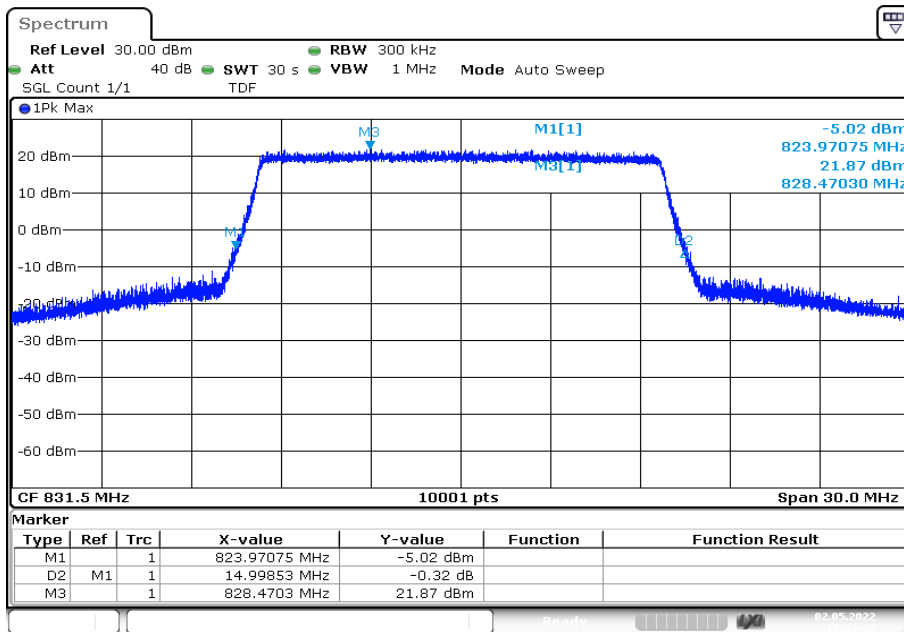


Plot 25: 15 MHz – QPSK - lowest channel (99% - OBW)



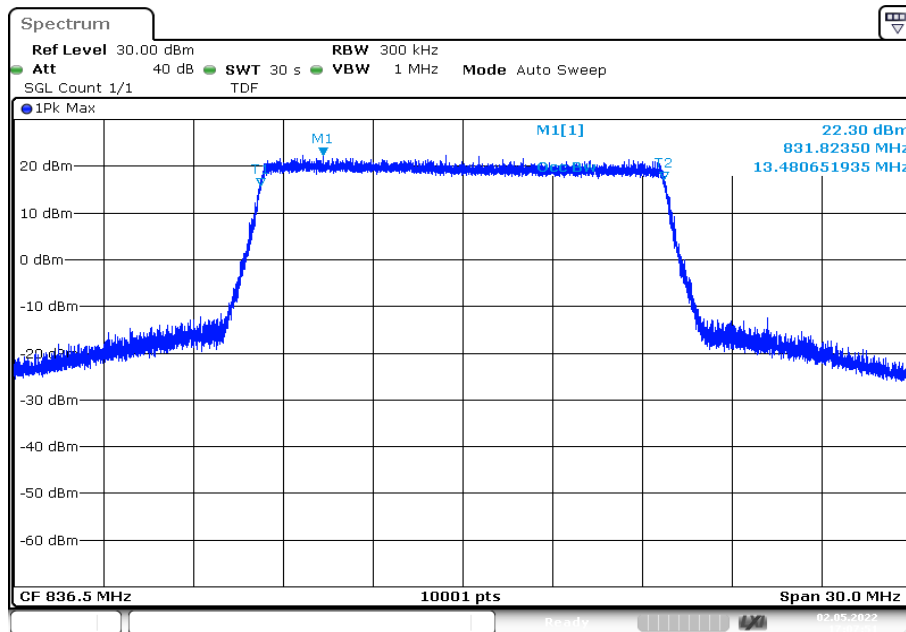
Date: 2.MAY.2022 17:03:04

Plot 26: 15 MHz – QPSK - lowest channel (-26 dBc BW)

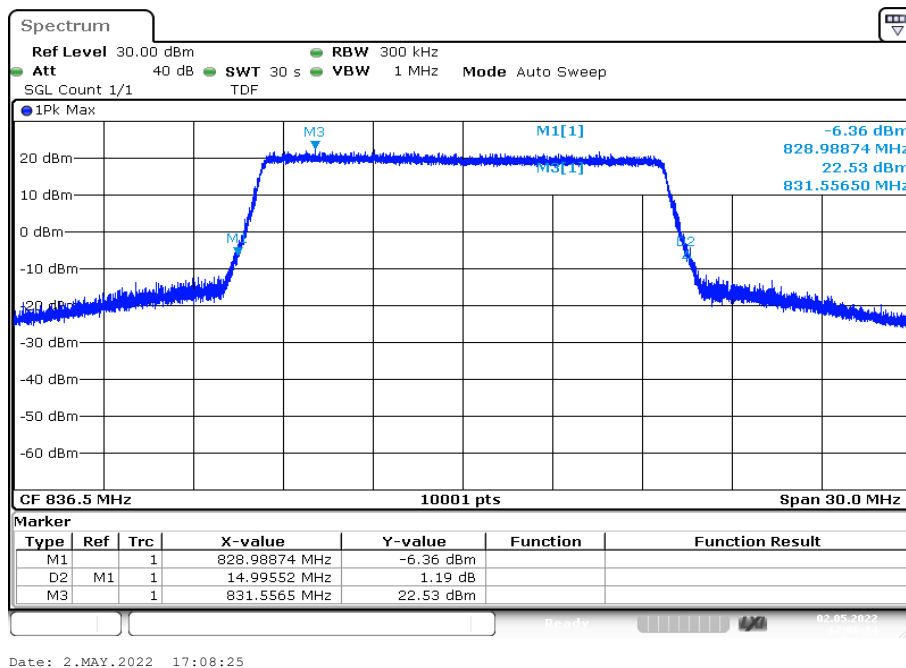


Date: 2.MAY.2022 17:03:38

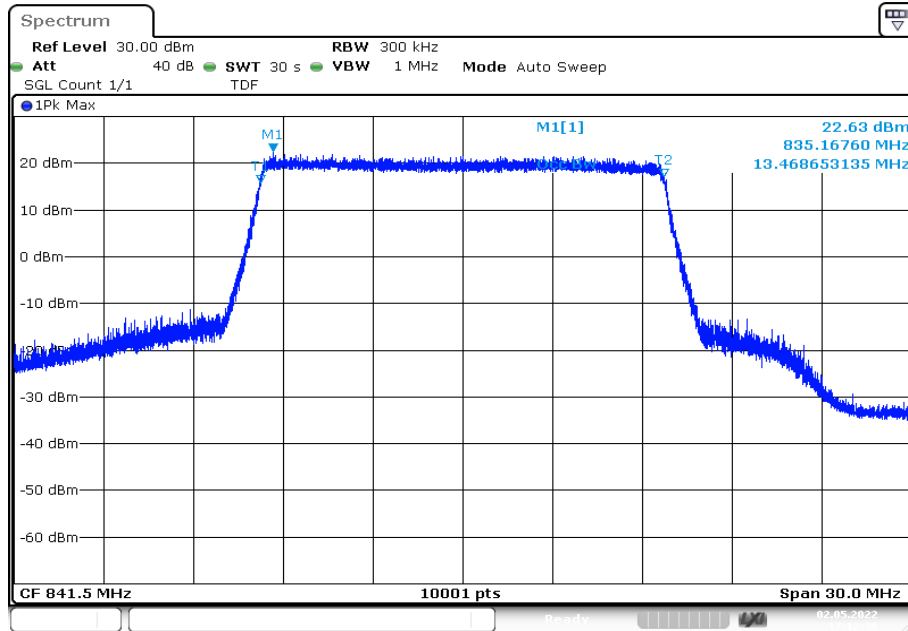
Plot 27: 15 MHz – QPSK - middle channel (99% - OBW)



Plot 28: 15 MHz – QPSK - middle channel (-26 dBc BW)

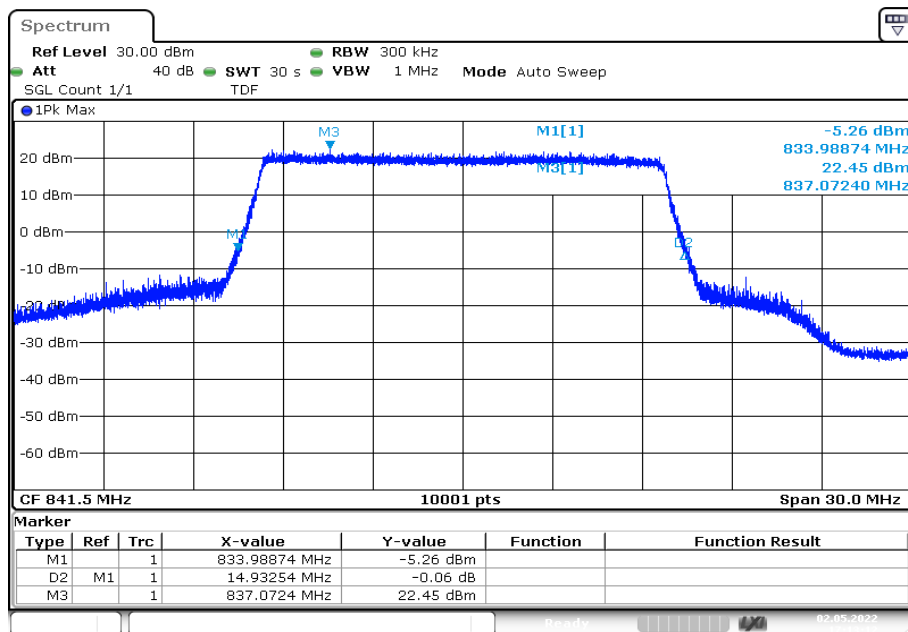


Plot 29: 15 MHz – QPSK - highest channel (99% - OBW)



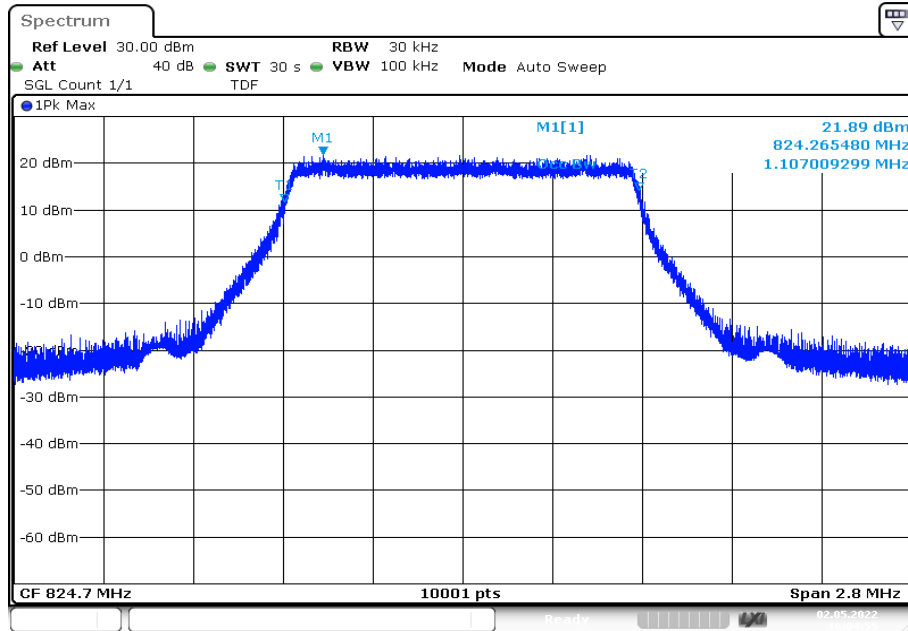
Date: 2.MAY.2022 17:12:39

Plot 30: 15 MHz – QPSK - highest channel (-26 dBc BW)



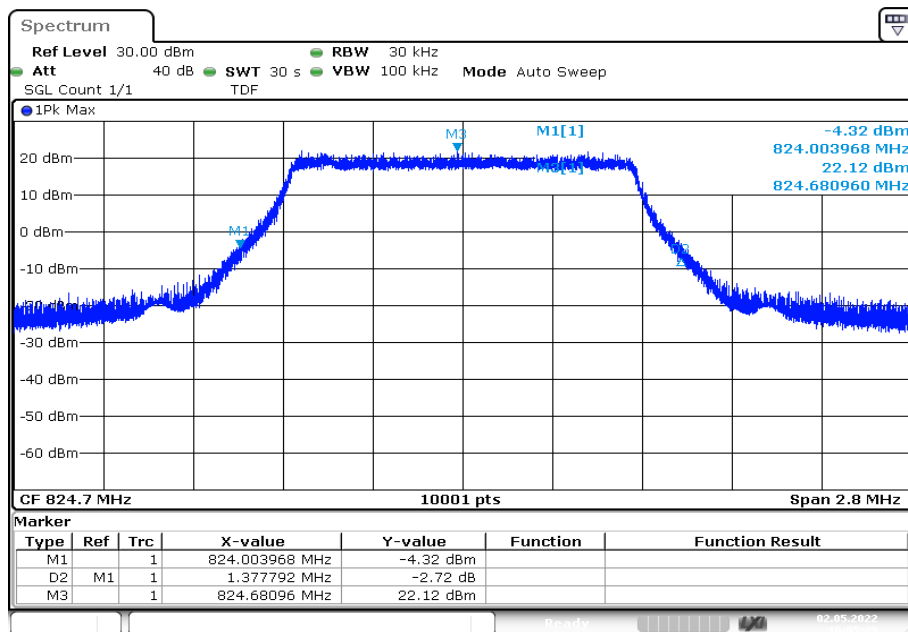
Date: 2.MAY.2022 17:13:12

Plot 31: 1.4 MHz – 16-QAM - lowest channel (99% - OBW)



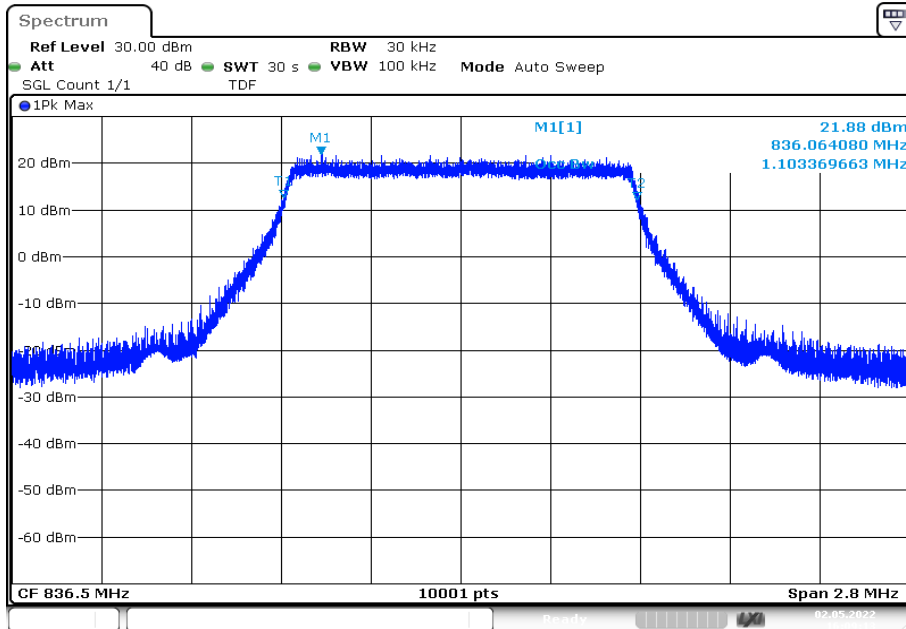
Date: 2.MAY.2022 16:04:56

Plot 32: 1.4 MHz – 16-QAM - lowest channel (-26 dBc BW)



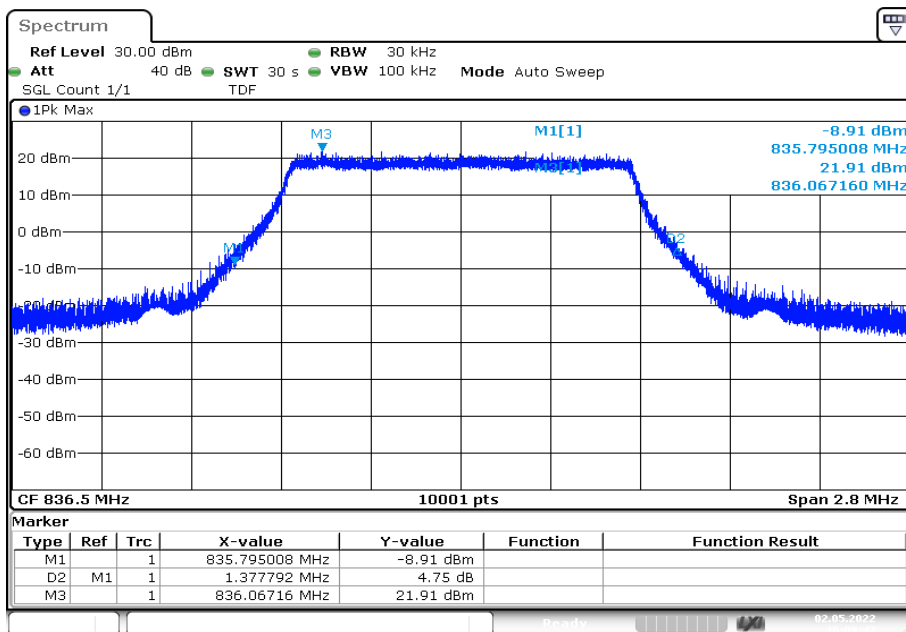
Date: 2.MAY.2022 16:05:30

Plot 33: 1.4 MHz – 16-QAM - middle channel (99% - OBW)



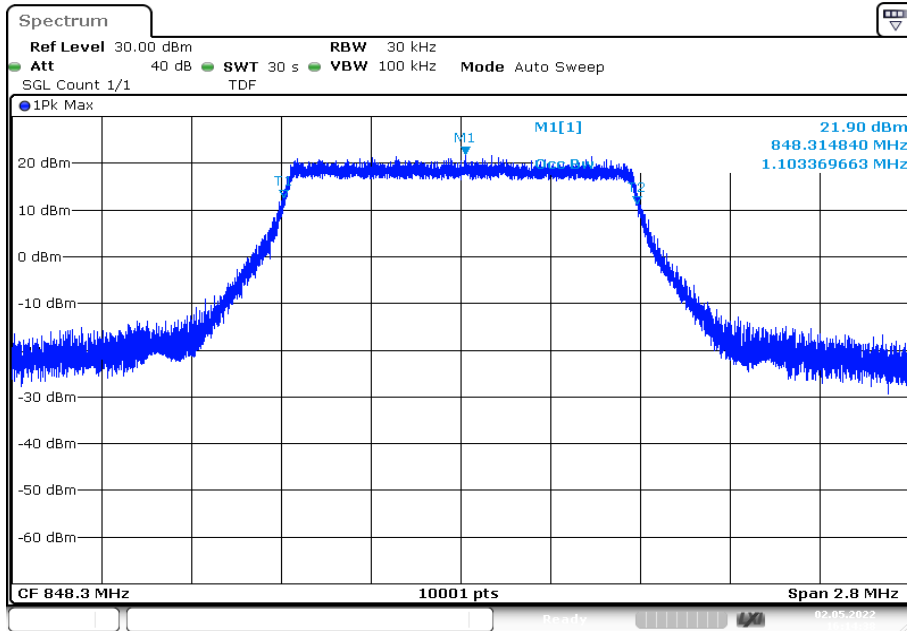
Date: 2.MAY.2022 16:09:13

Plot 34: 1.4 MHz – 16-QAM - middle channel (-26 dBc BW)



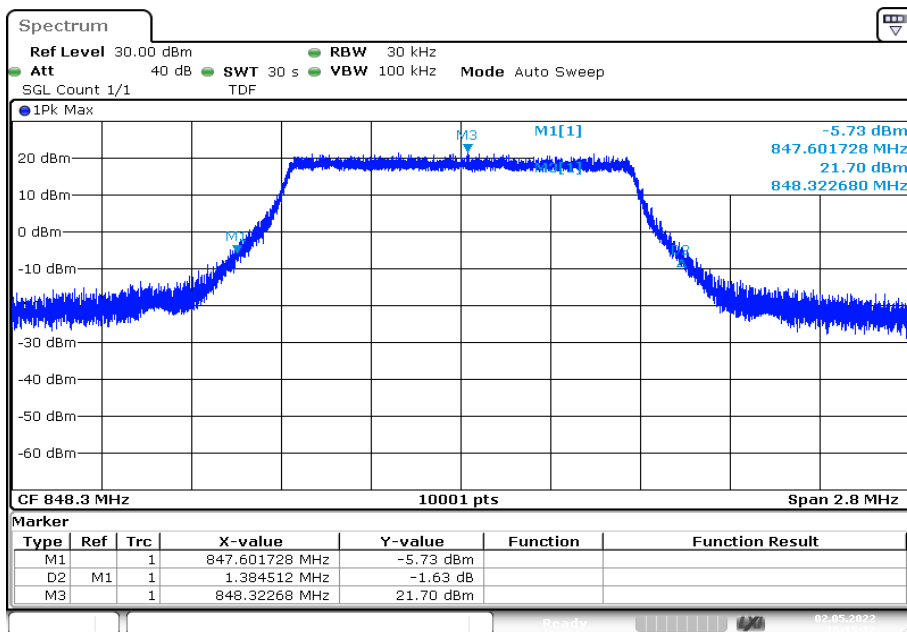
Date: 2.MAY.2022 16:09:47

Plot 35: 1.4 MHz – 16-QAM - highest channel (99% - OBW)



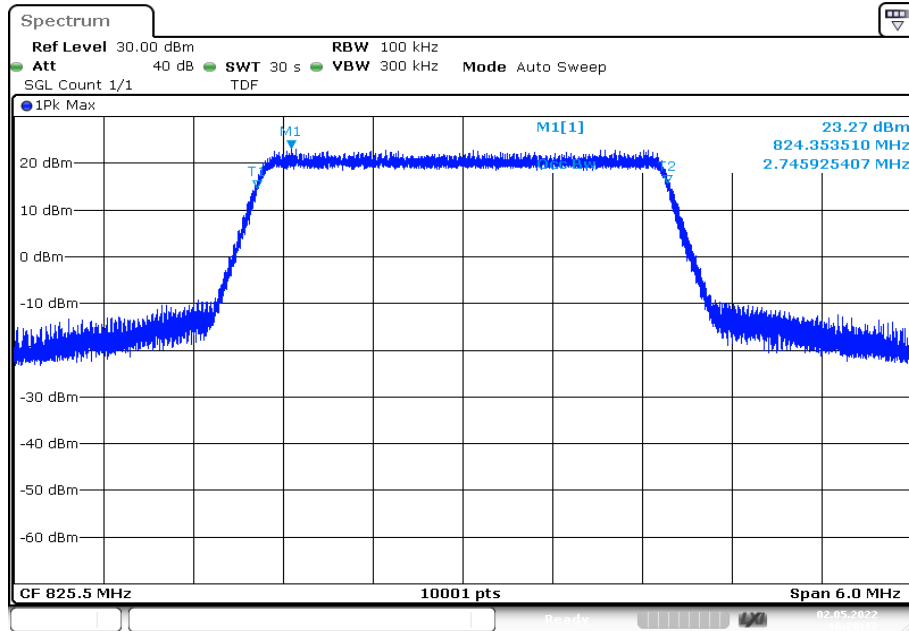
Date: 2.MAY.2022 16:14:38

Plot 36: 1.4 MHz – 16-QAM - highest channel (-26 dBc BW)



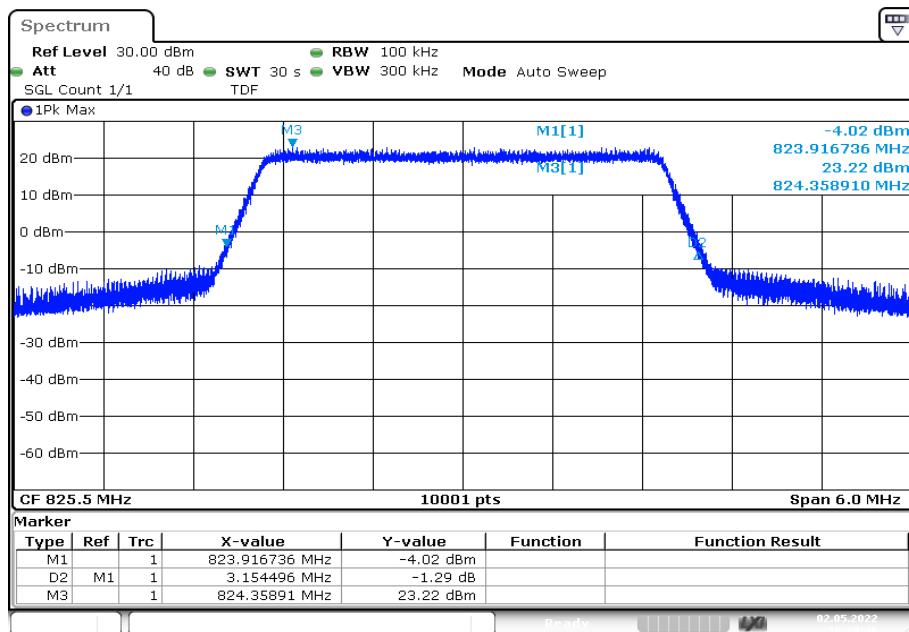
Date: 2.MAY.2022 16:15:12

Plot 37: 3 MHz – 16-QAM - lowest channel (99% - OBW)



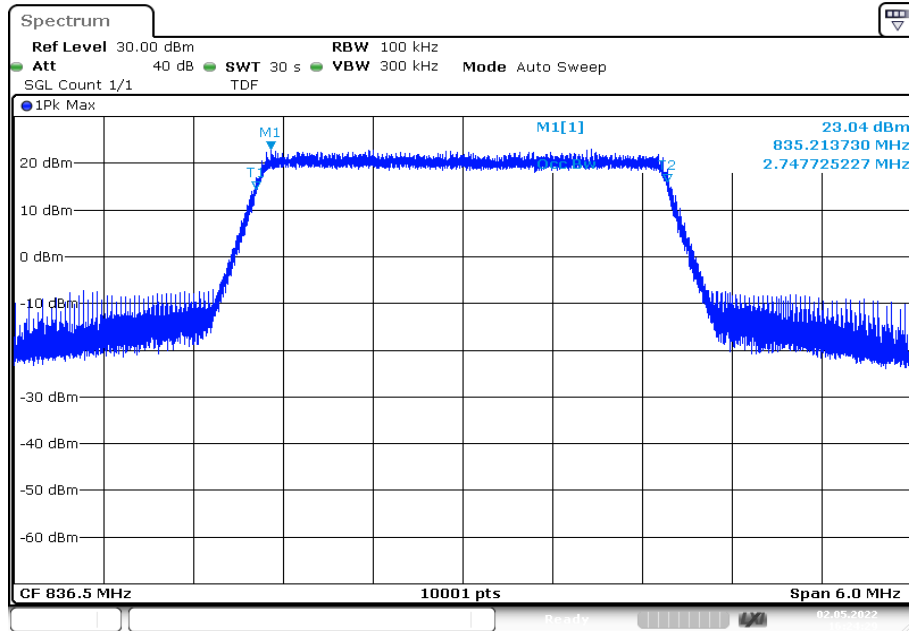
Date: 2.MAY.2022 16:20:13

Plot 38: 3 MHz – 16-QAM - lowest channel (-26 dBc BW)



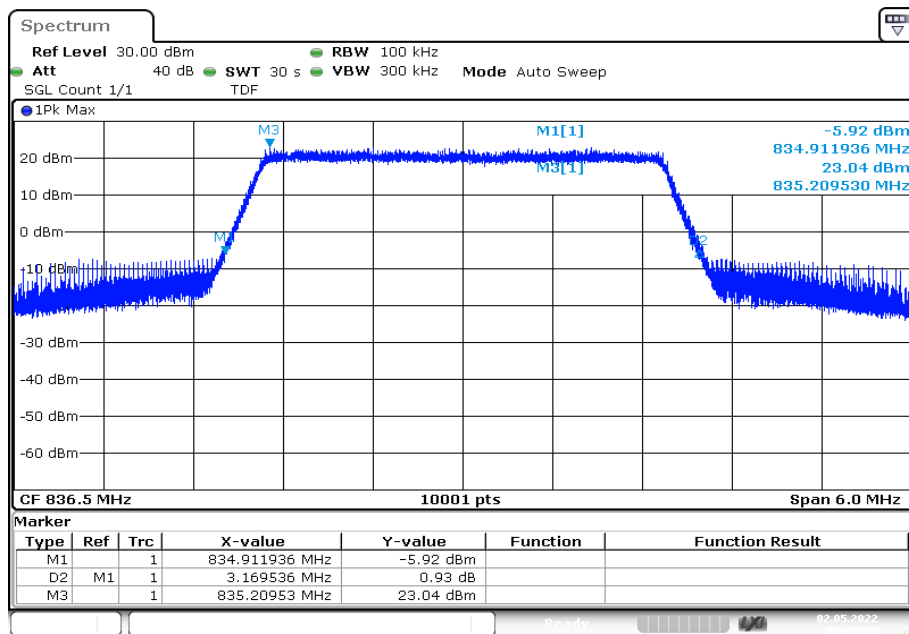
Date: 2.MAY.2022 16:20:47

Plot 39: 3 MHz – 16-QAM - middle channel (99% - OBW)



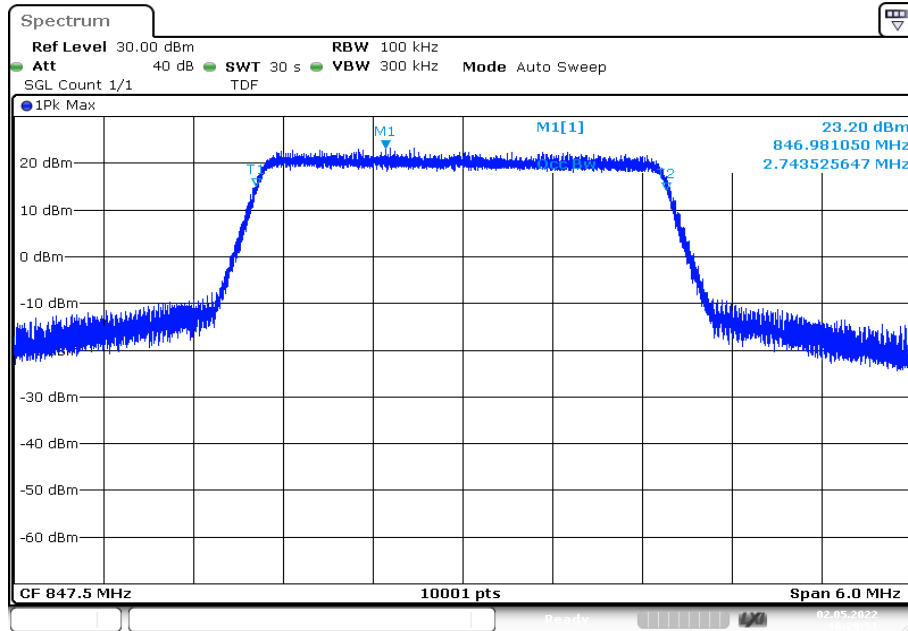
Date: 2.MAY.2022 16:24:29

Plot 40: 3 MHz – 16-QAM - middle channel (-26 dBc BW)



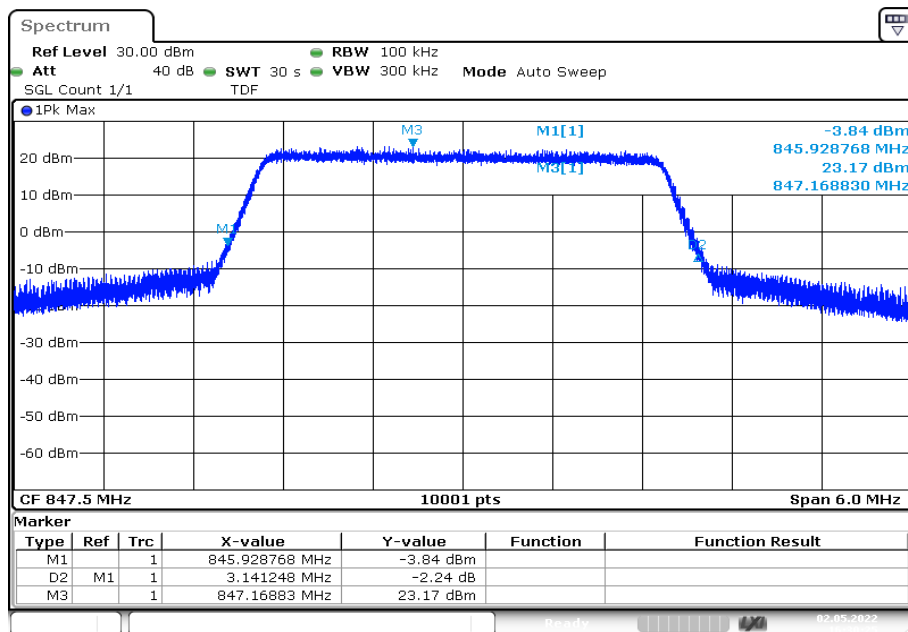
Date: 2.MAY.2022 16:25:03

Plot 41: 3 MHz – 16-QAM - highest channel (99% - OBW)



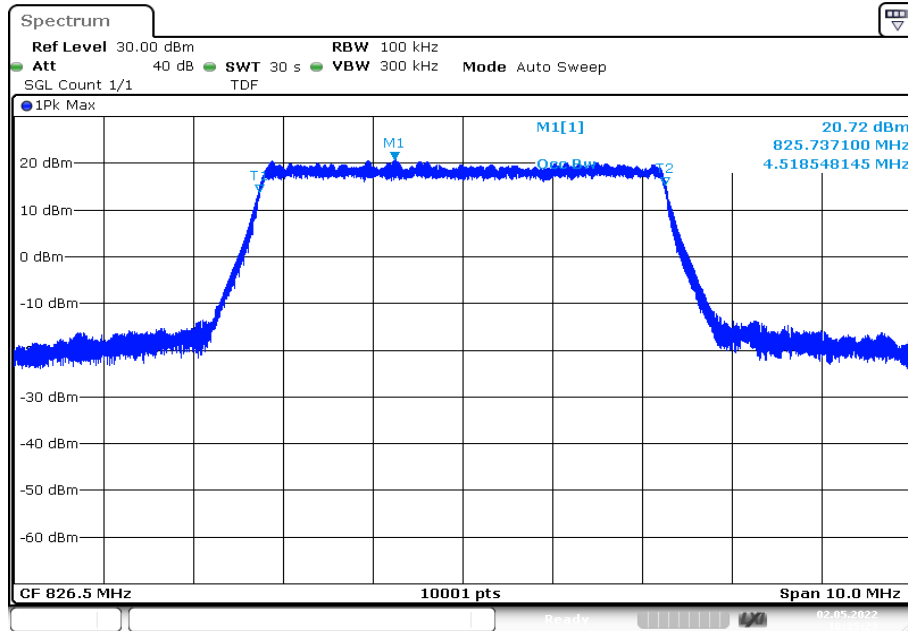
Date: 2.MAY.2022 16:29:52

Plot 42: 3 MHz – 16-QAM - highest channel (-26 dBc BW)



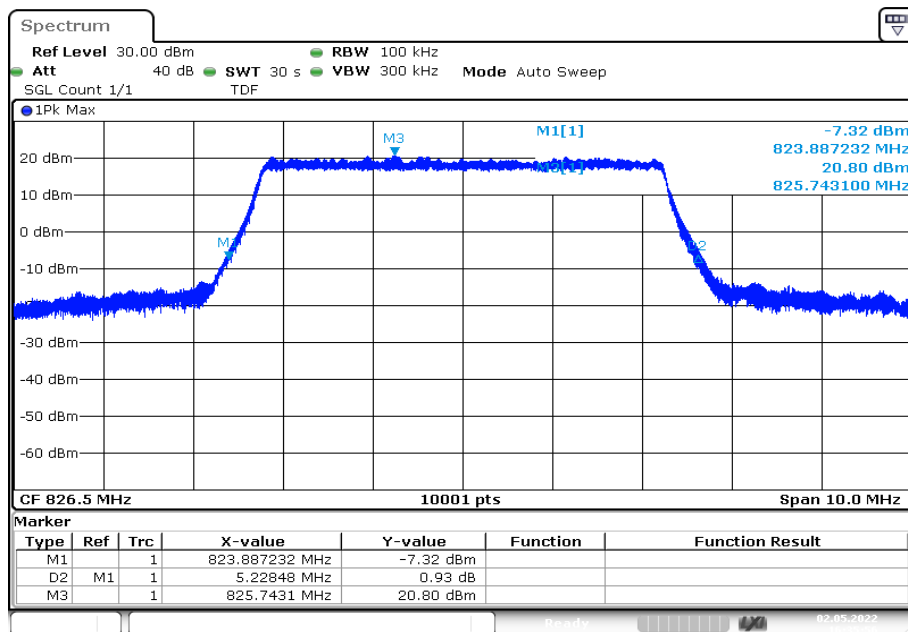
Date: 2.MAY.2022 16:30:26

Plot 43: 5 MHz – 16-QAM - lowest channel (99% - OBW)



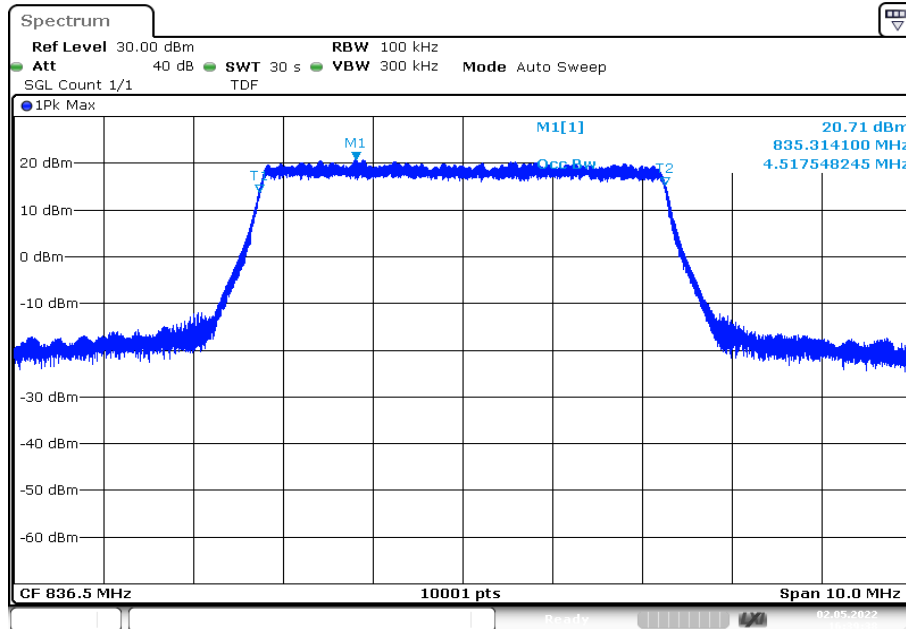
Date: 2.MAY.2022 16:35:24

Plot 44: 5 MHz – 16-QAM - lowest channel (-26 dBc BW)



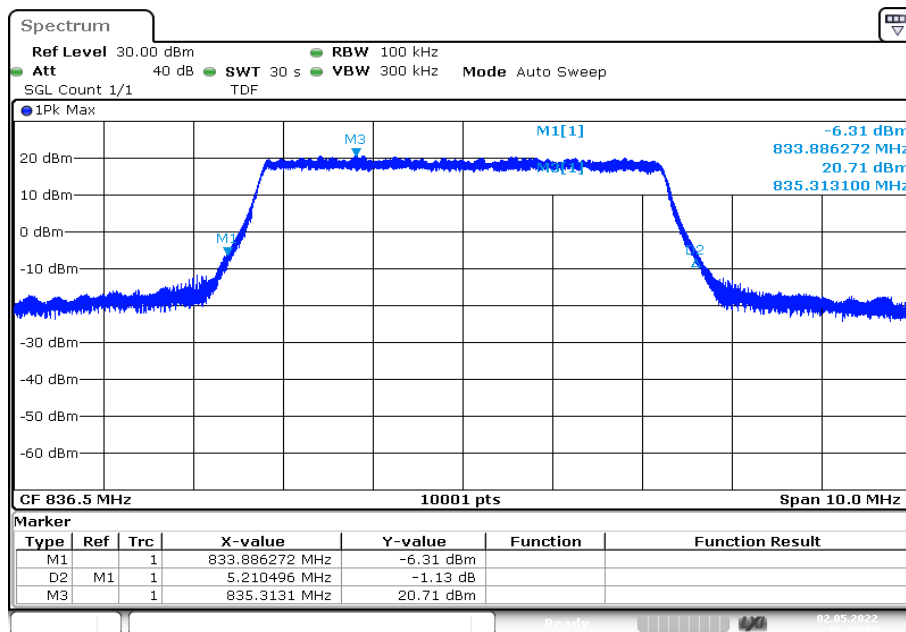
Date: 2.MAY.2022 16:35:57

Plot 45: 5 MHz – 16-QAM - middle channel (99% - OBW)



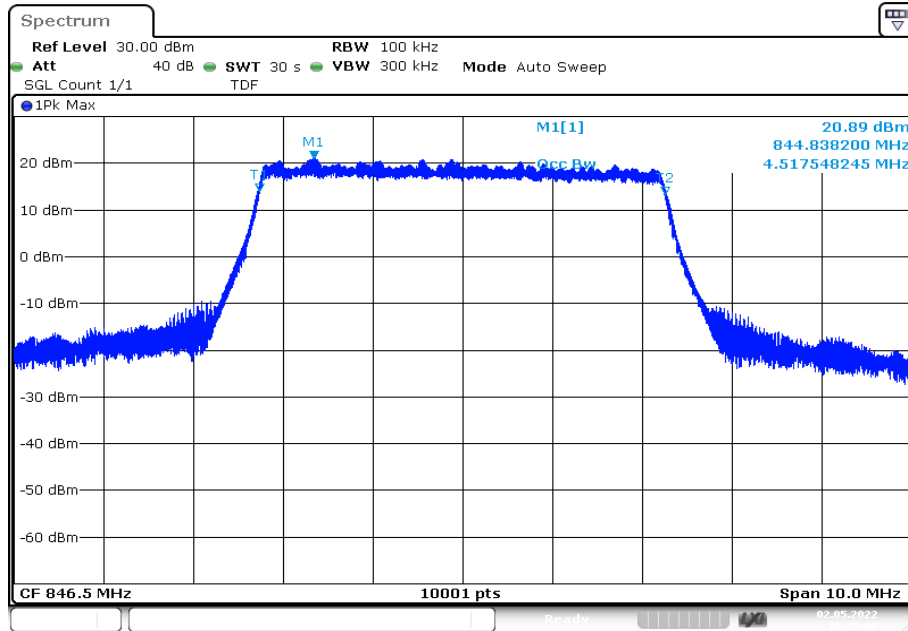
Date: 2.MAY.2022 16:39:39

Plot 46: 5 MHz – 16-QAM - middle channel (-26 dBc BW)



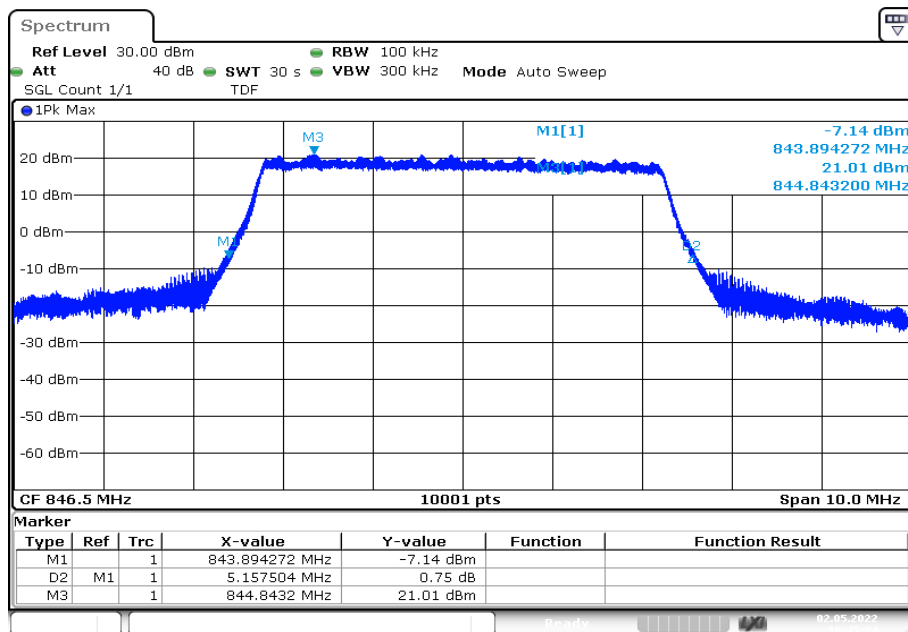
Date: 2.MAY.2022 16:40:12

Plot 47: 5 MHz – 16-QAM - highest channel (99% - OBW)



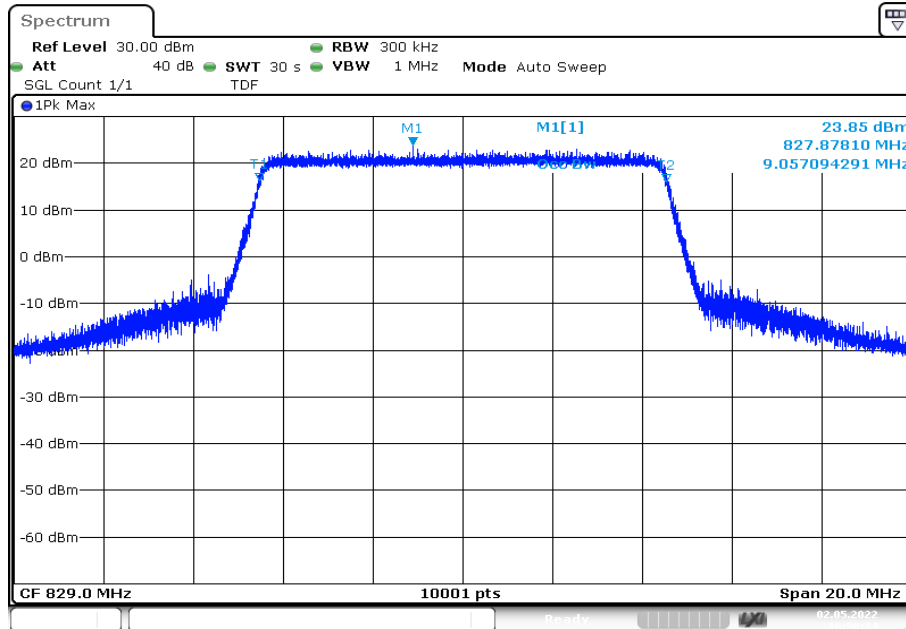
Date: 2.MAY.2022 16:45:01

Plot 48: 5 MHz – 16-QAM - highest channel (-26 dBc BW)



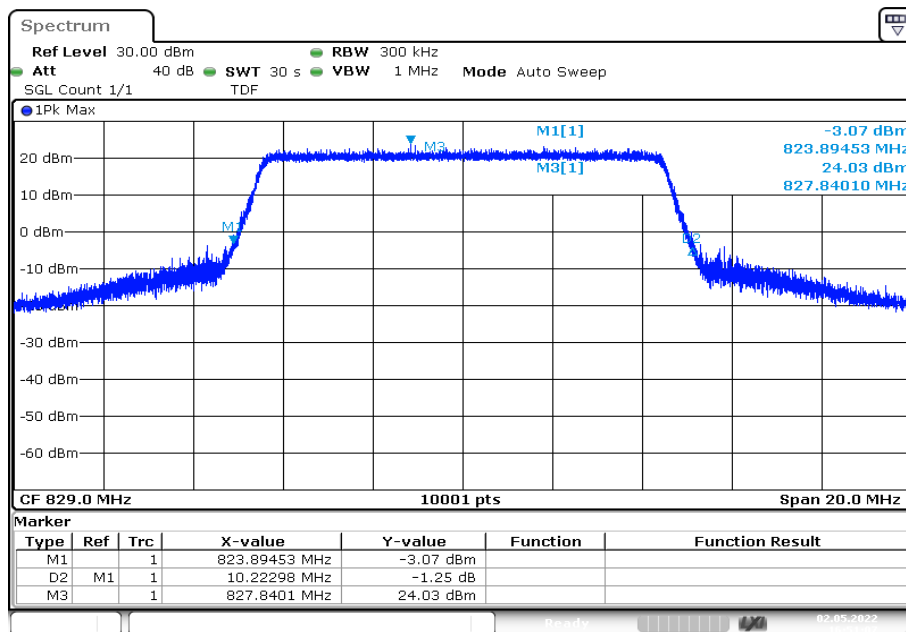
Date: 2.MAY.2022 16:45:34

Plot 49: 10 MHz – 16-QAM - lowest channel (99% - OBW)



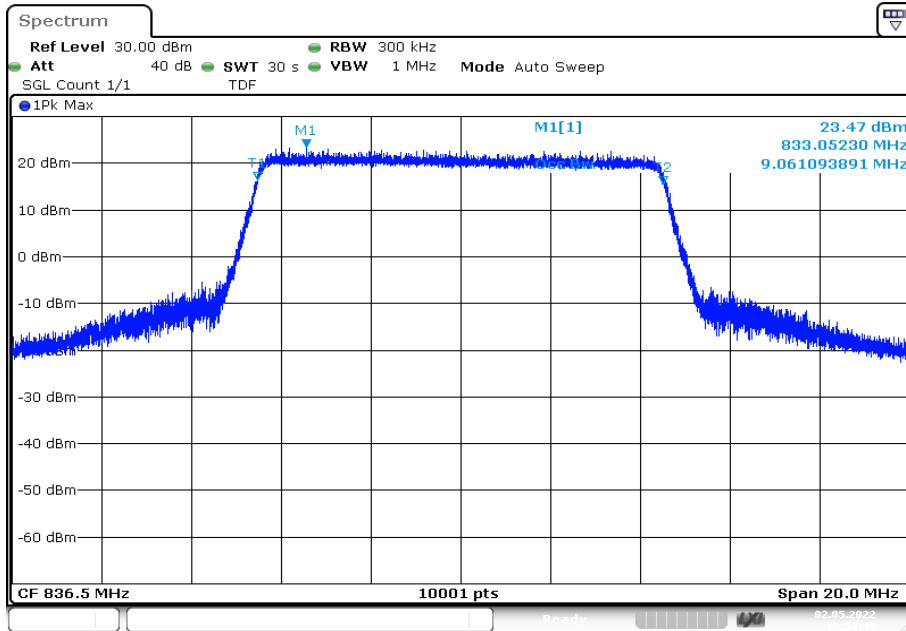
Date: 2.MAY.2022 16:50:34

Plot 50: 10 MHz – 16-QAM - lowest channel (-26 dBc BW)

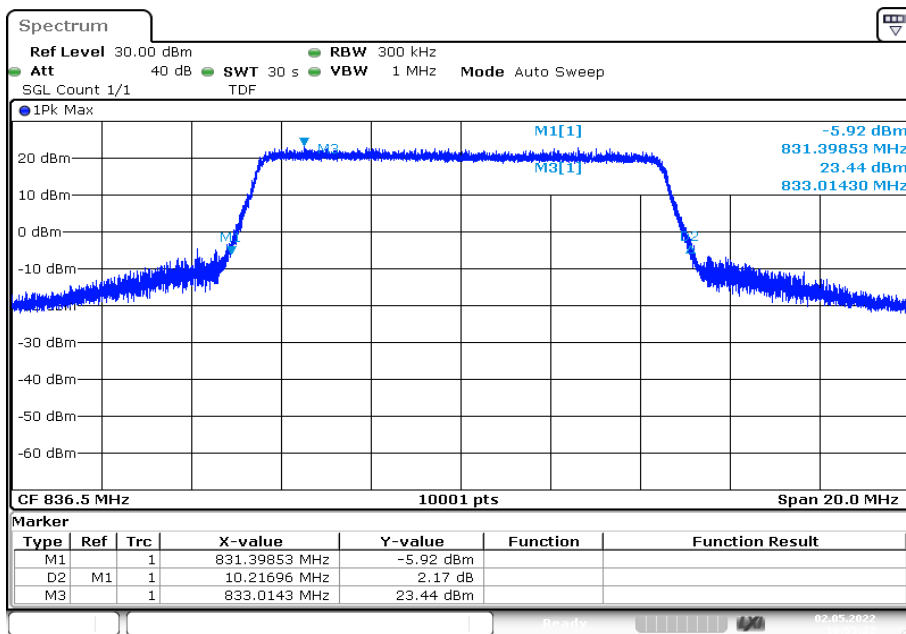


Date: 2.MAY.2022 16:51:08

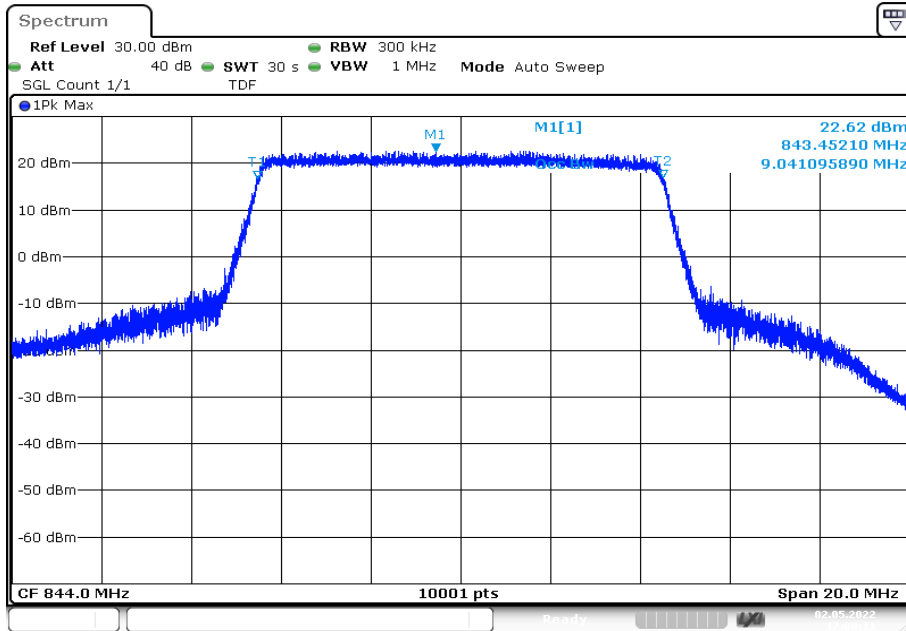
Plot 51: 10 MHz – 16-QAM - middle channel (99% - OBW)



Plot 52: 10 MHz – 16-QAM - middle channel (-26 dBc BW)

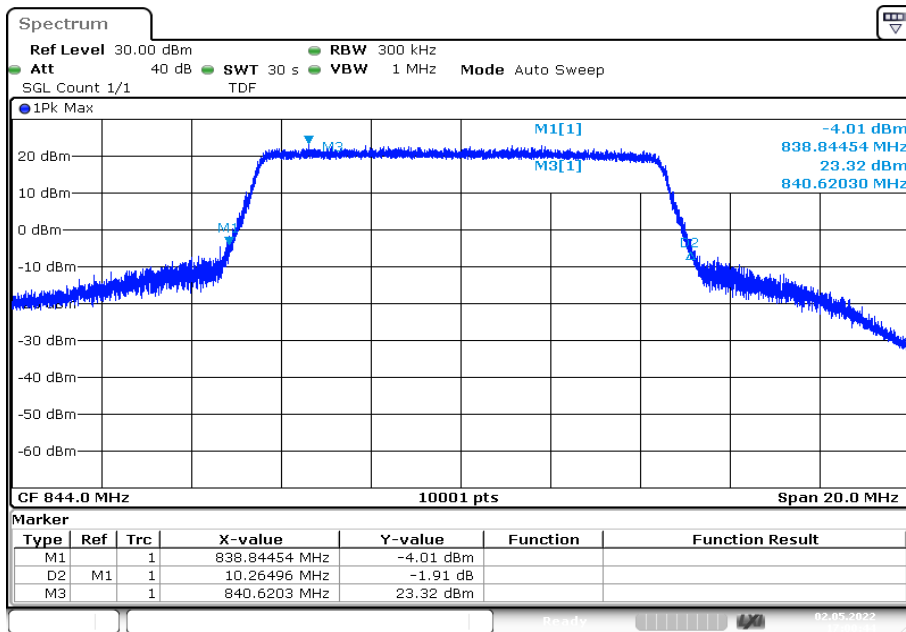


Plot 53: 10 MHz – 16-QAM - highest channel (99% - OBW)



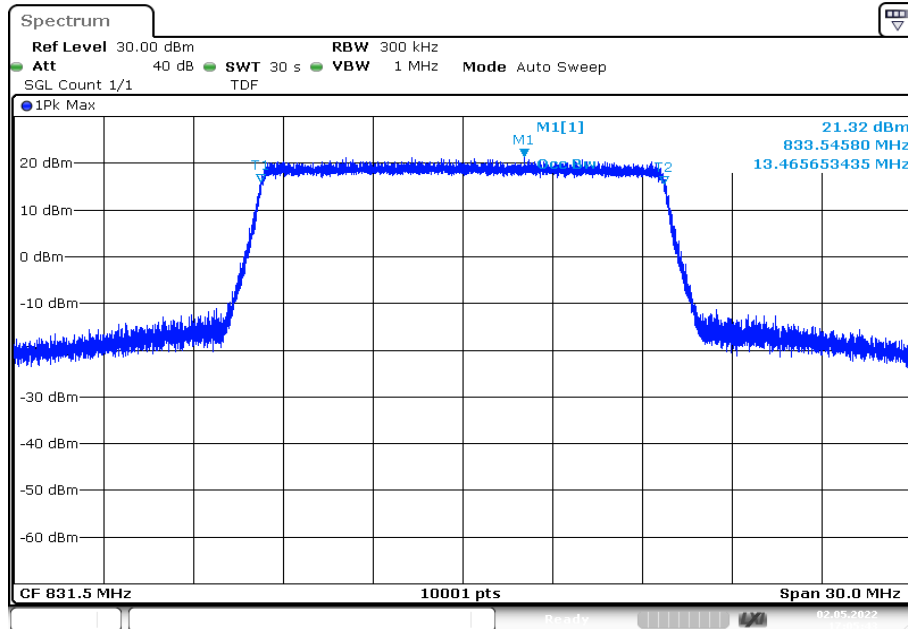
Date: 2.MAY.2022 17:00:11

Plot 54: 10 MHz – 16-QAM - highest channel (-26 dBc BW)

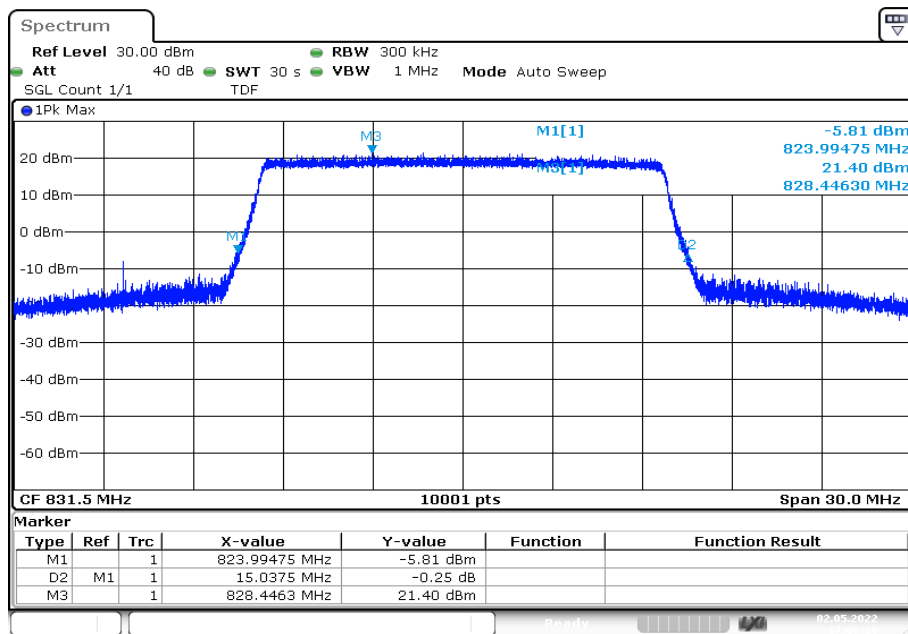


Date: 2.MAY.2022 17:00:45

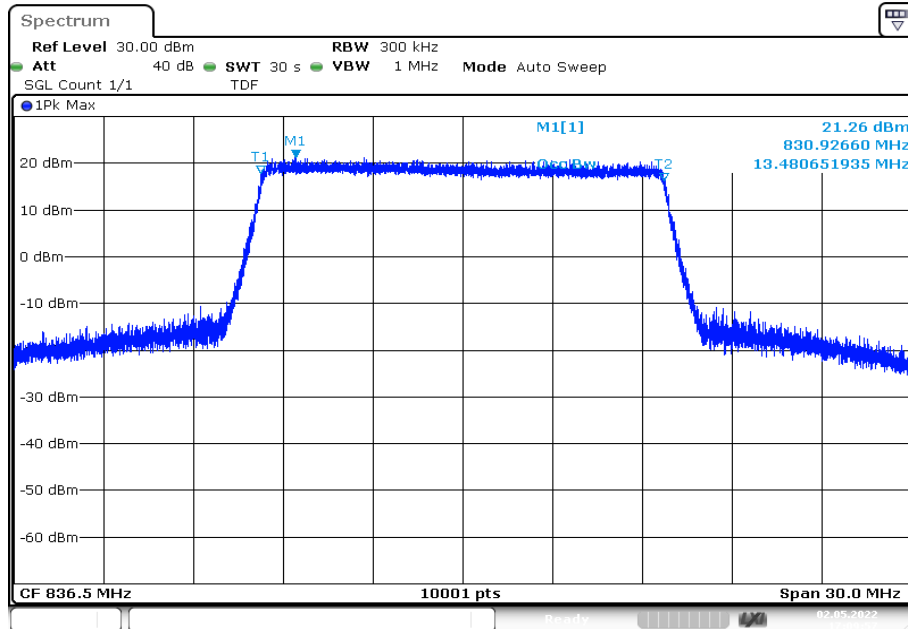
Plot 55: 15 MHz – 16-QAM - lowest channel (99% - OBW)



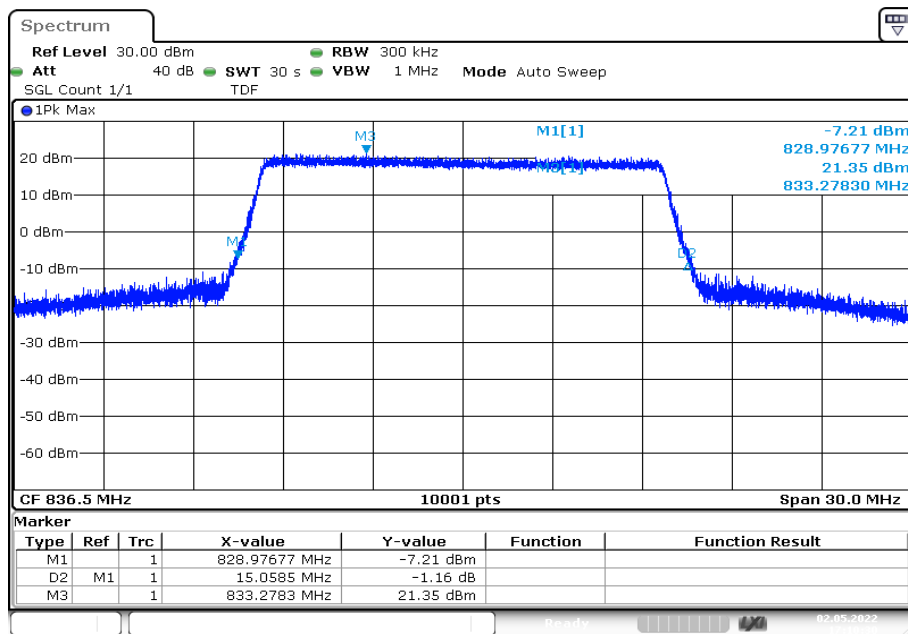
Plot 56: 15 MHz – 16-QAM - lowest channel (-26 dBc BW)



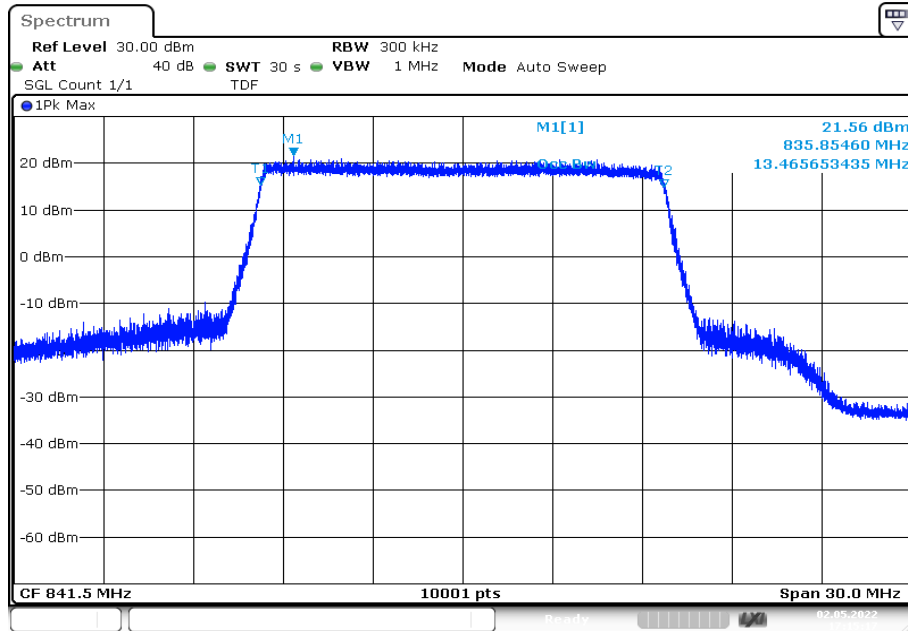
Plot 57: 15 MHz – 16-QAM - middle channel (99% - OBW)



Plot 58: 15 MHz – 16-QAM - middle channel (-26 dBc BW)

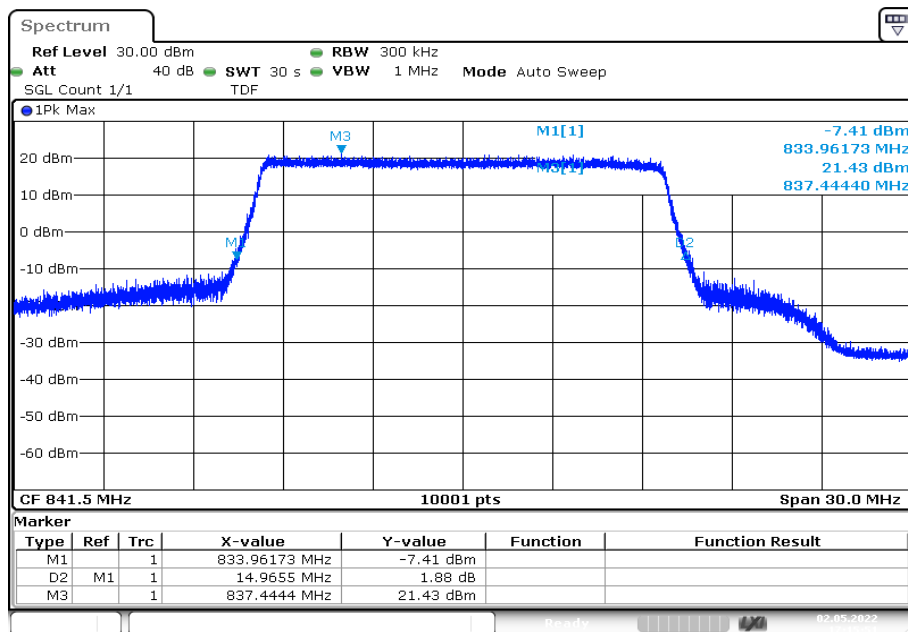


Plot 59: 15 MHz – 16-QAM - highest channel (99% - OBW)



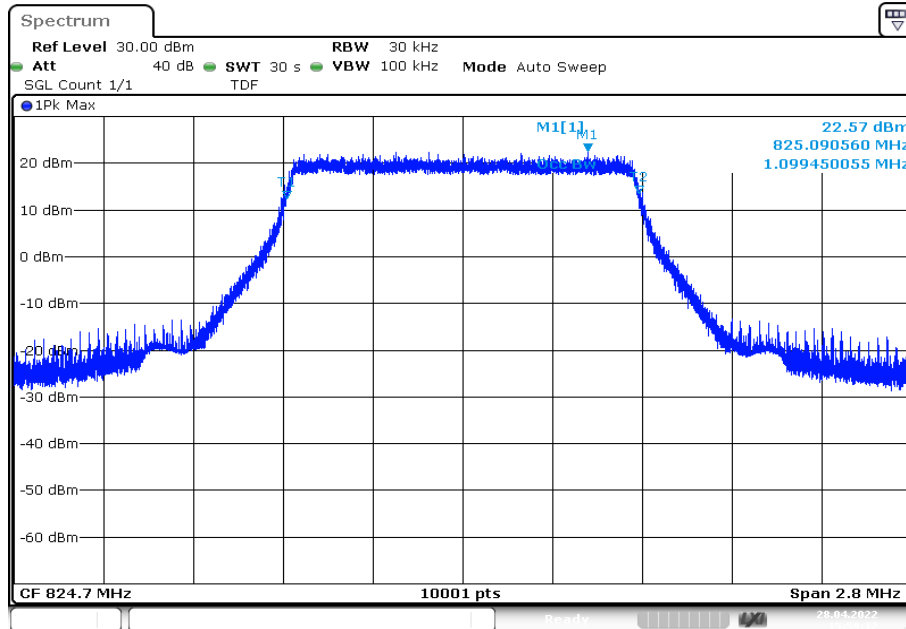
Date: 2.MAY.2022 17:15:18

Plot 60: 15 MHz – 16-QAM - highest channel (-26 dBc BW)



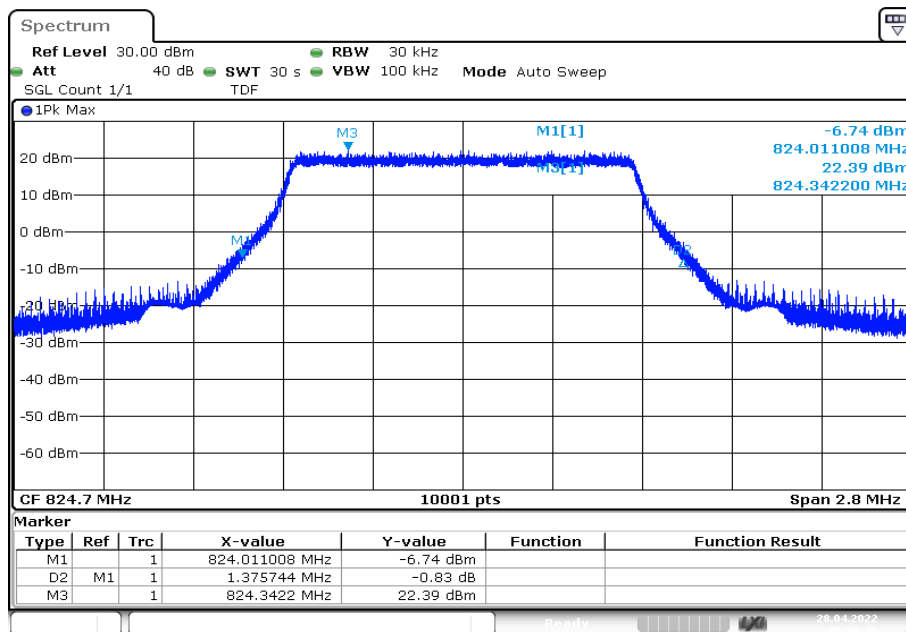
Date: 2.MAY.2022 17:15:51

Plot 61: 1.4 MHz – 64-QAM - lowest channel (99% - OBW)



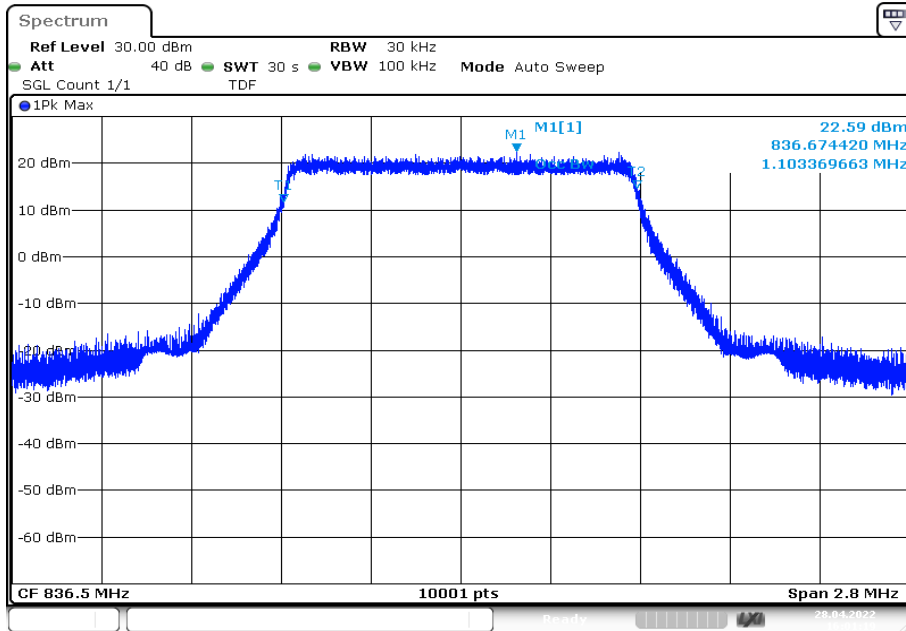
Date: 28.APR.2022 15:59:12

Plot 62: 1.4 MHz – 64-QAM - lowest channel (-26 dBc BW)



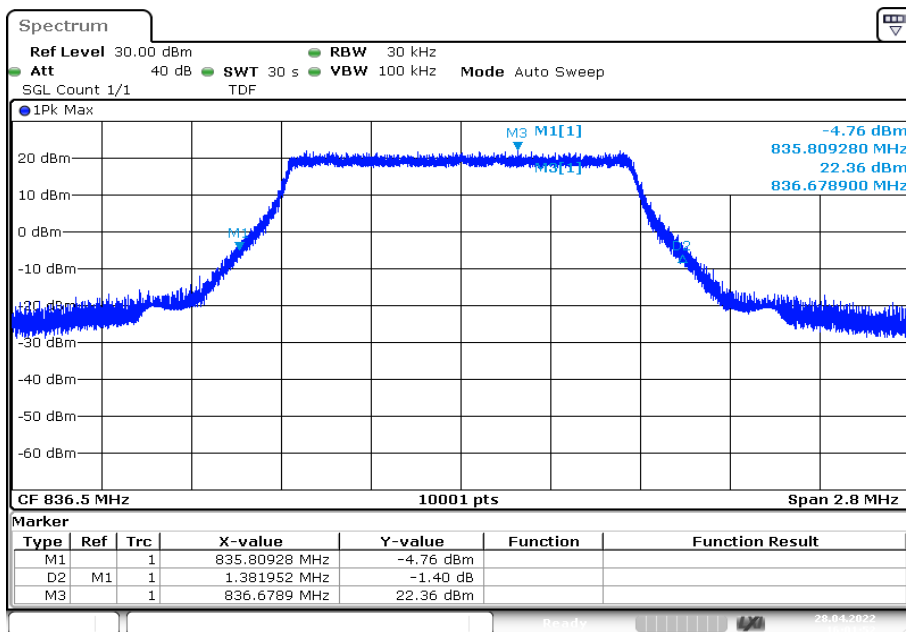
Date: 28.APR.2022 15:59:45

Plot 63: 1.4 MHz – 64-QAM - middle channel (99% - OBW)



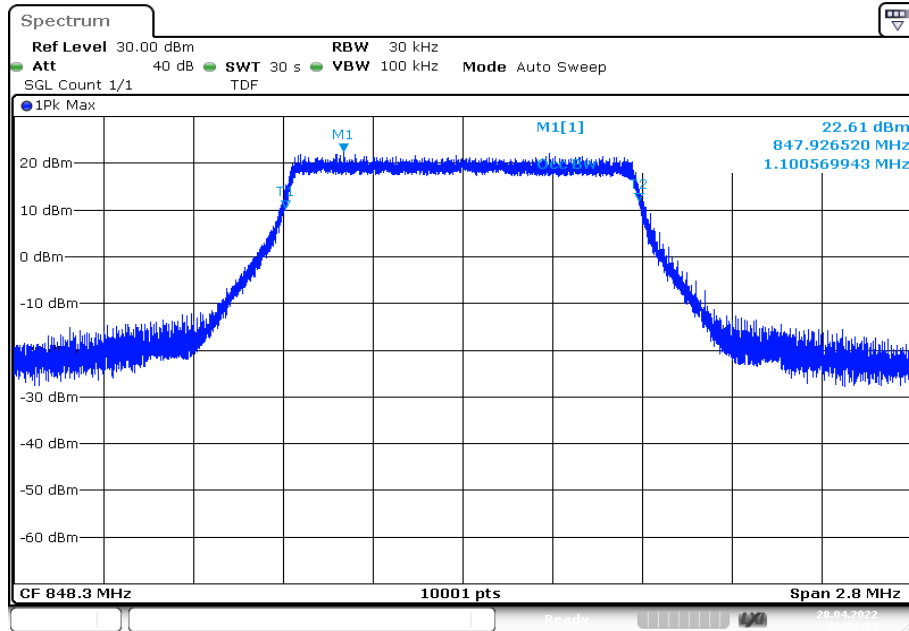
Date: 28.APR.2022 16:01:19

Plot 64: 1.4 MHz – 64-QAM - middle channel (-26 dBc BW)



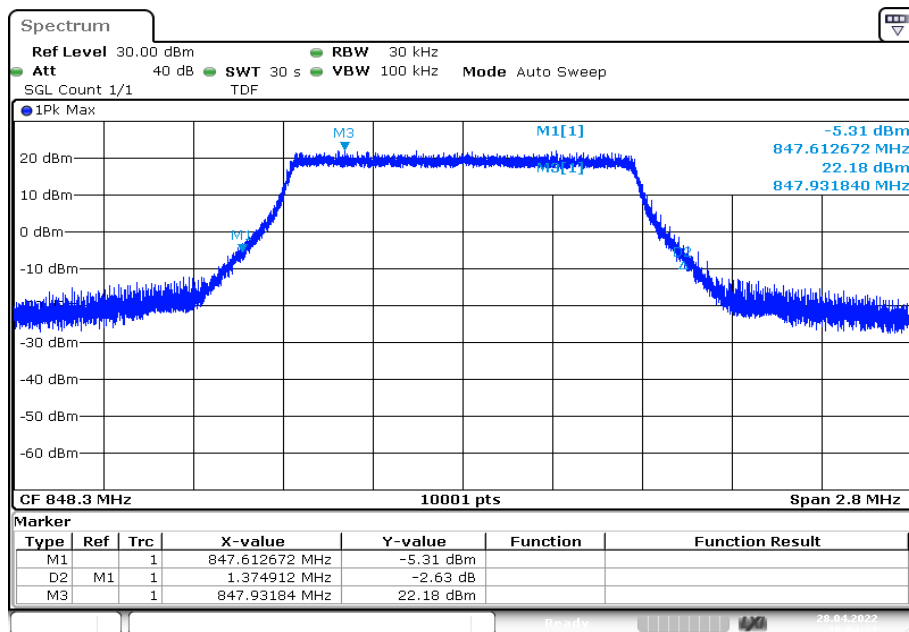
Date: 28.APR.2022 16:01:51

Plot 65: 1.4 MHz – 64-QAM - highest channel (99% - OBW)



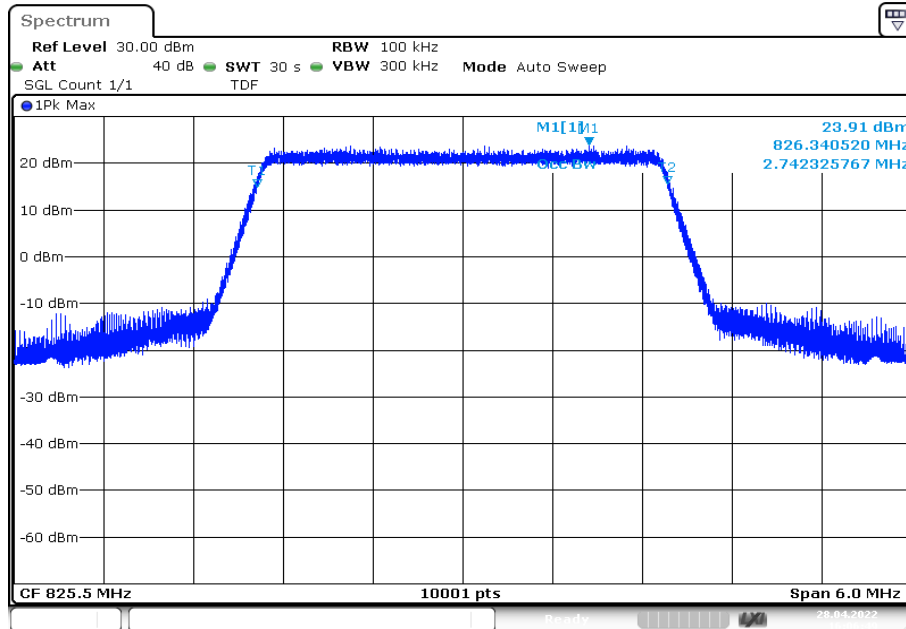
Date: 28.APR.2022 16:03:58

Plot 66: 1.4 MHz – 64-QAM - highest channel (-26 dBc BW)



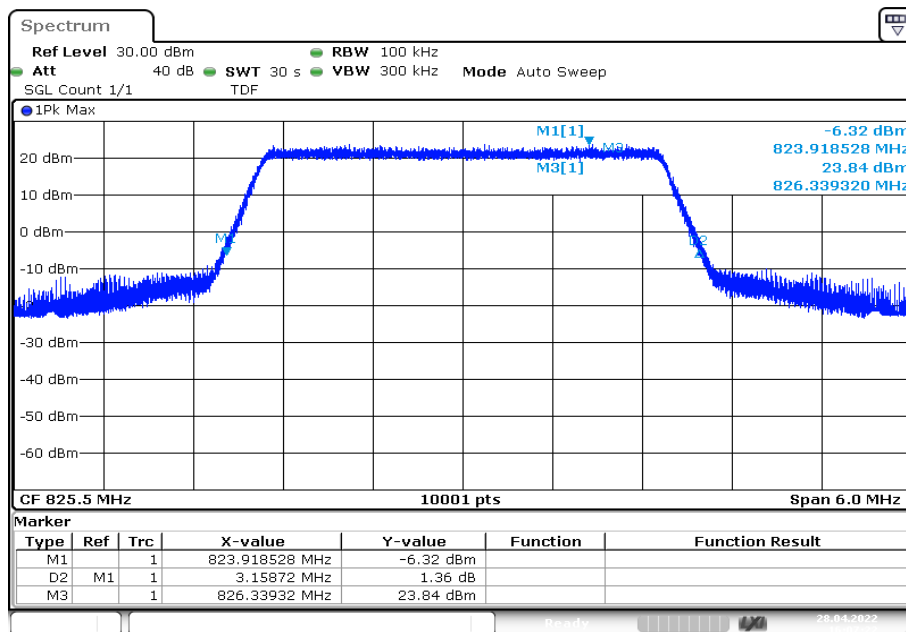
Date: 28.APR.2022 16:04:31

Plot 67: 3 MHz – 64-QAM - lowest channel (99% - OBW)



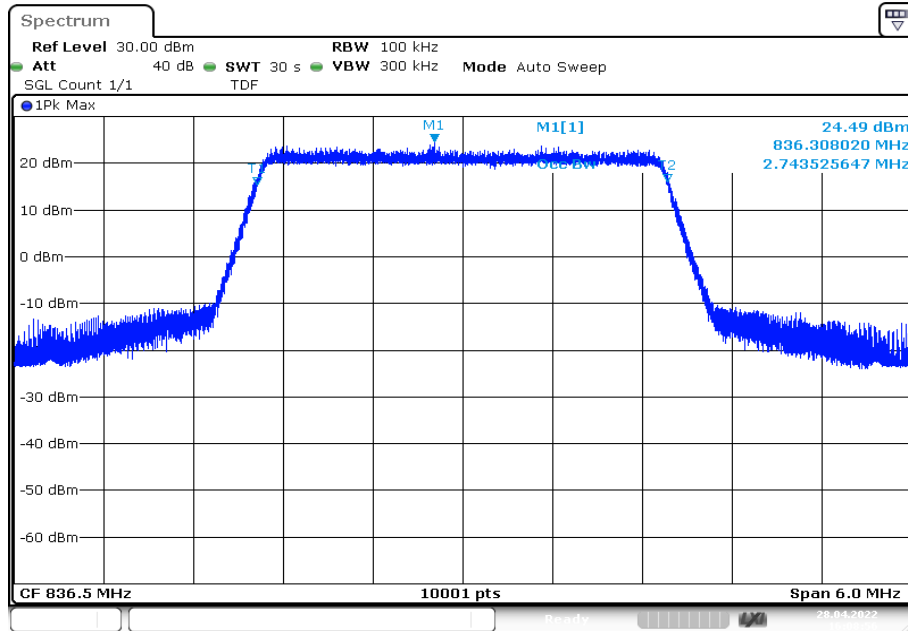
Date: 28.APR.2022 16:06:49

Plot 68: 3 MHz – 64-QAM - lowest channel (-26 dBc BW)



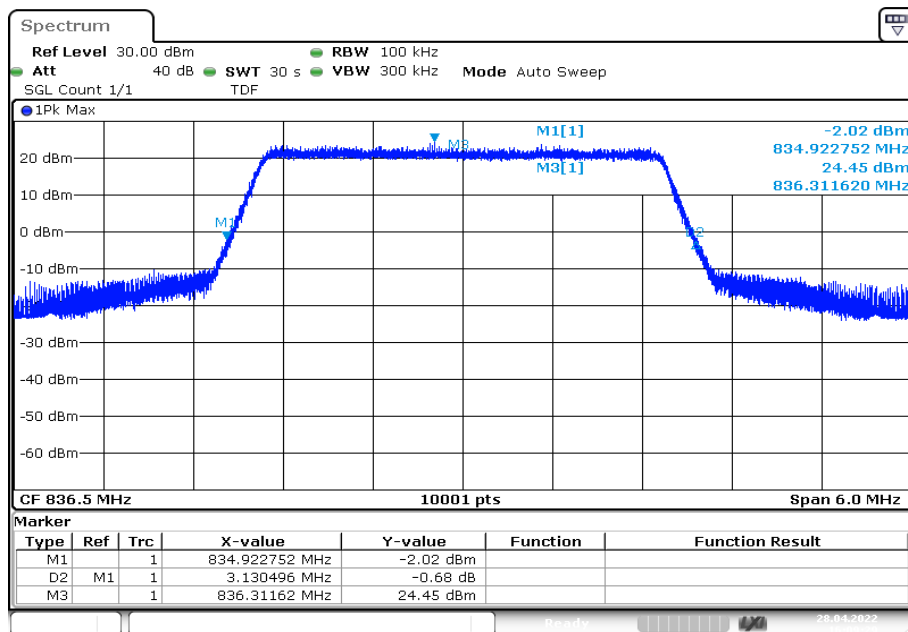
Date: 28.APR.2022 16:07:22

Plot 69: 3 MHz – 64-QAM - middle channel (99% - OBW)



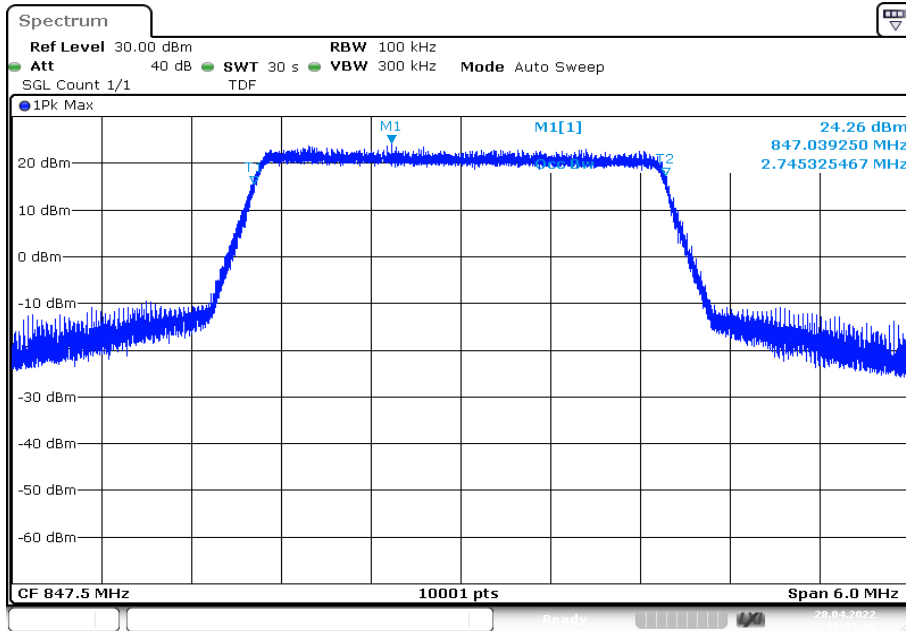
Date: 28.APR.2022 16:08:56

Plot 70: 3 MHz – 64-QAM - middle channel (-26 dBc BW)



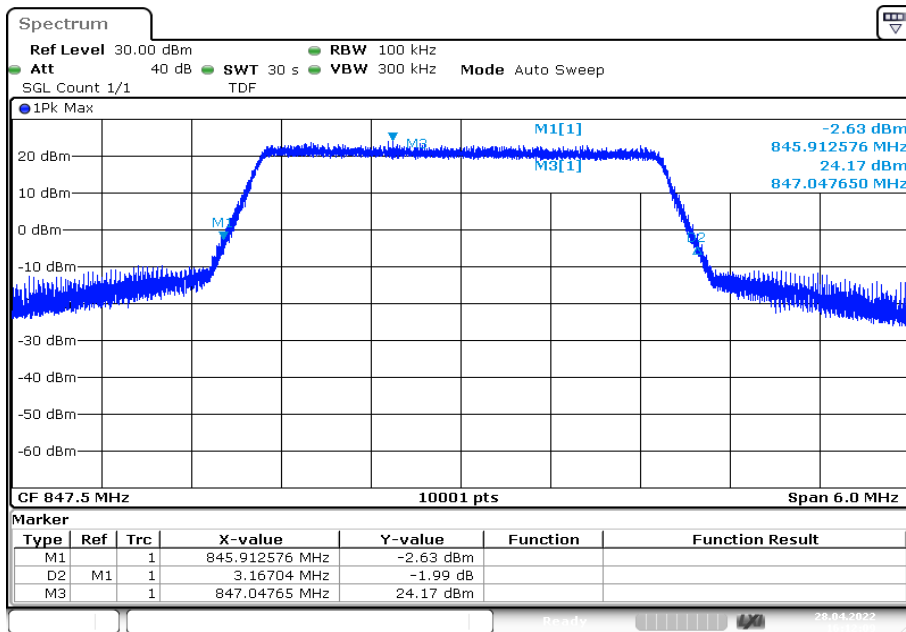
Date: 28.APR.2022 16:09:29

Plot 71: 3 MHz – 64-QAM - highest channel (99% - OBW)



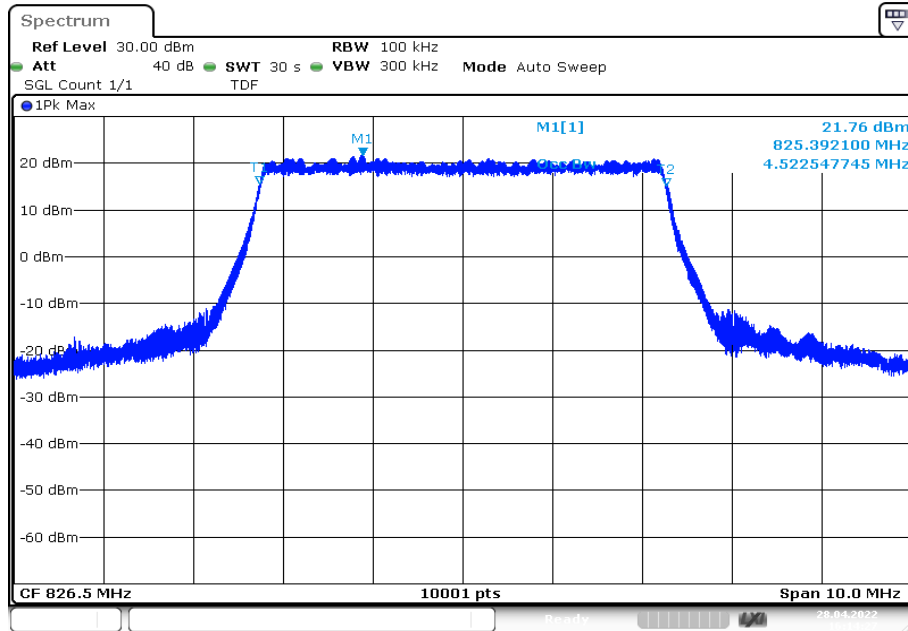
Date: 28.APR.2022 16:11:36

Plot 72: 3 MHz – 64-QAM - highest channel (-26 dBc BW)



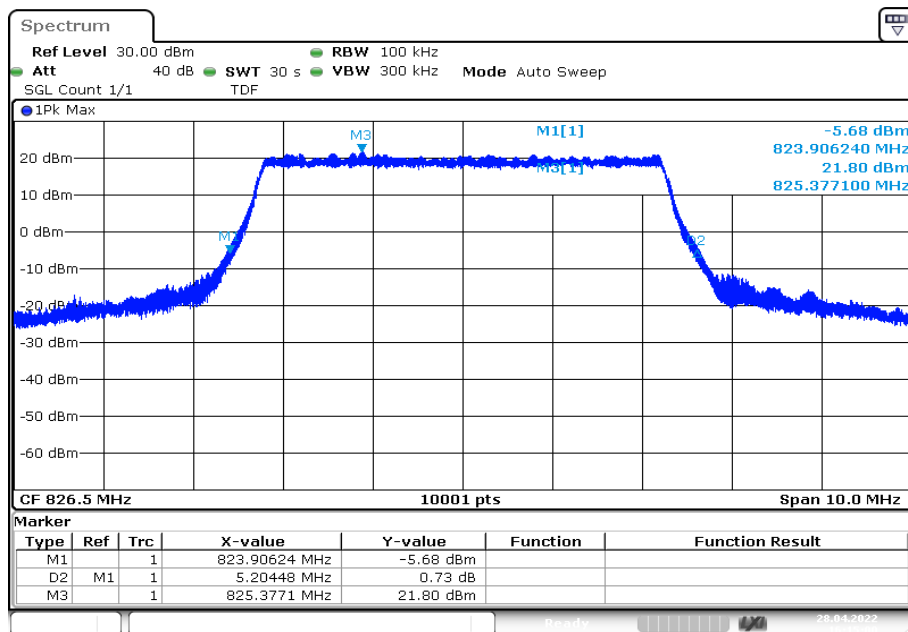
Date: 28.APR.2022 16:12:09

Plot 73: 5 MHz – 64-QAM - lowest channel (99% - OBW)



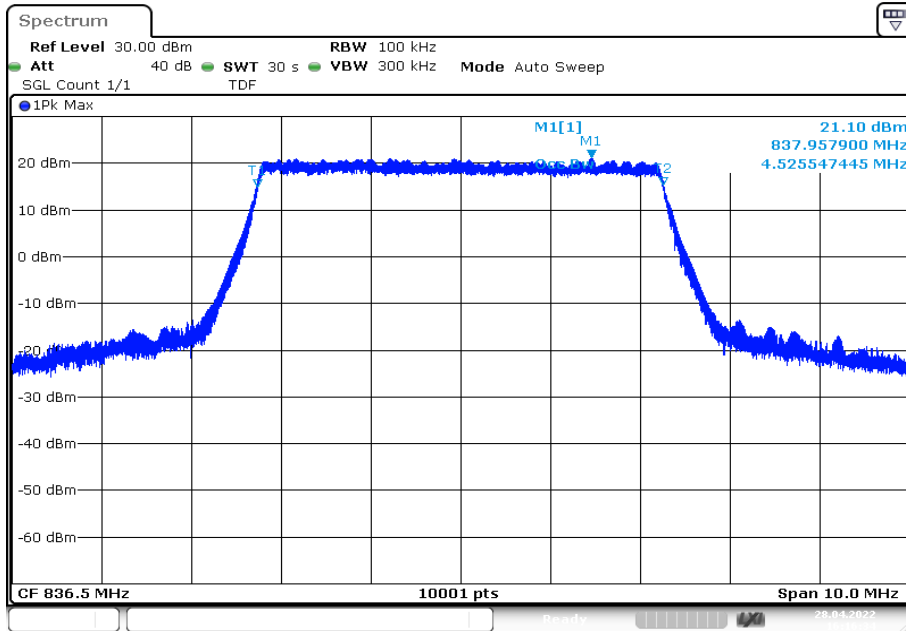
Date: 28.APR.2022 16:14:27

Plot 74: 5 MHz – 64-QAM - lowest channel (-26 dBc BW)



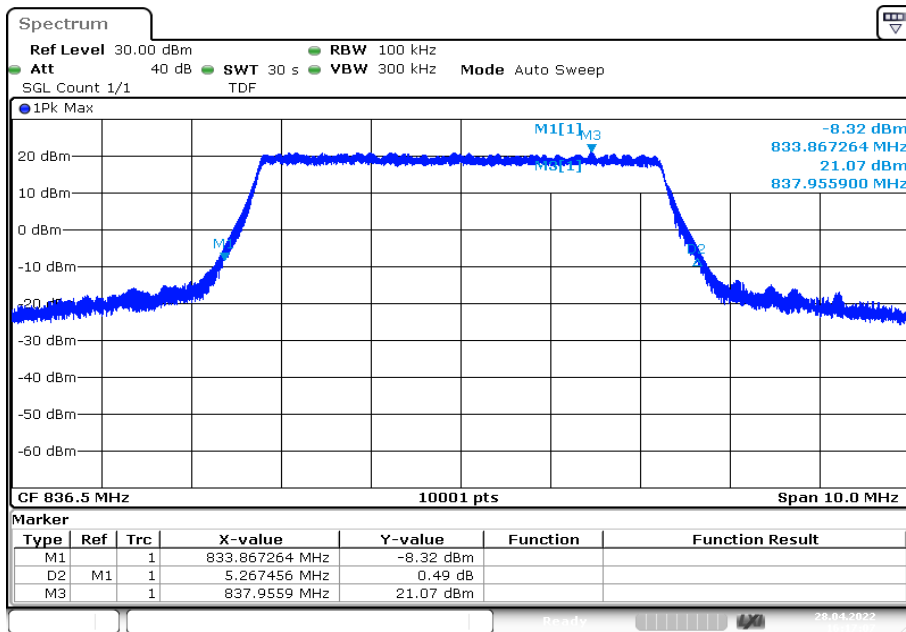
Date: 28.APR.2022 16:15:00

Plot 75: 5 MHz – 64-QAM - middle channel (99% - OBW)



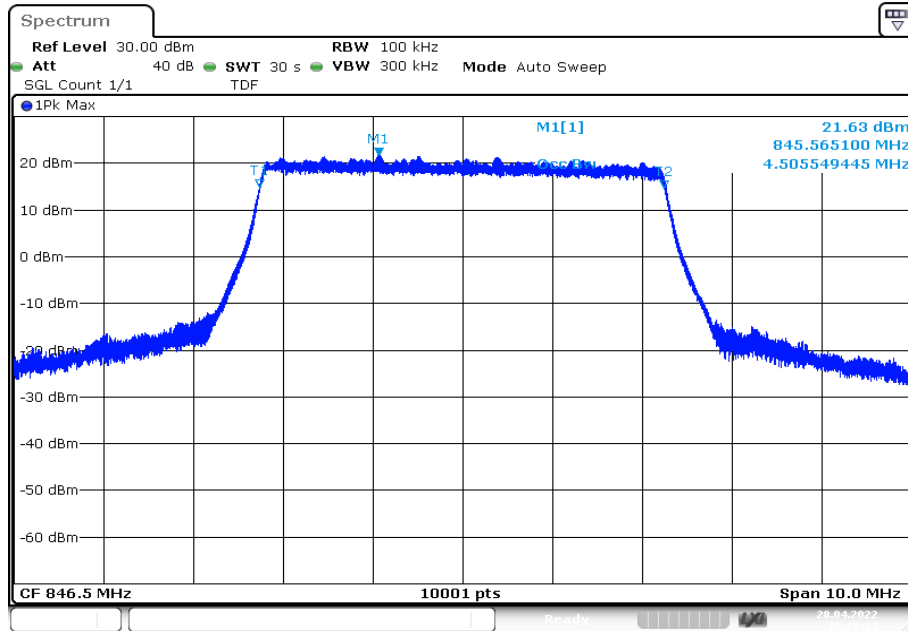
Date: 28.APR.2022 16:16:34

Plot 76: 5 MHz – 64-QAM - middle channel (-26 dBc BW)



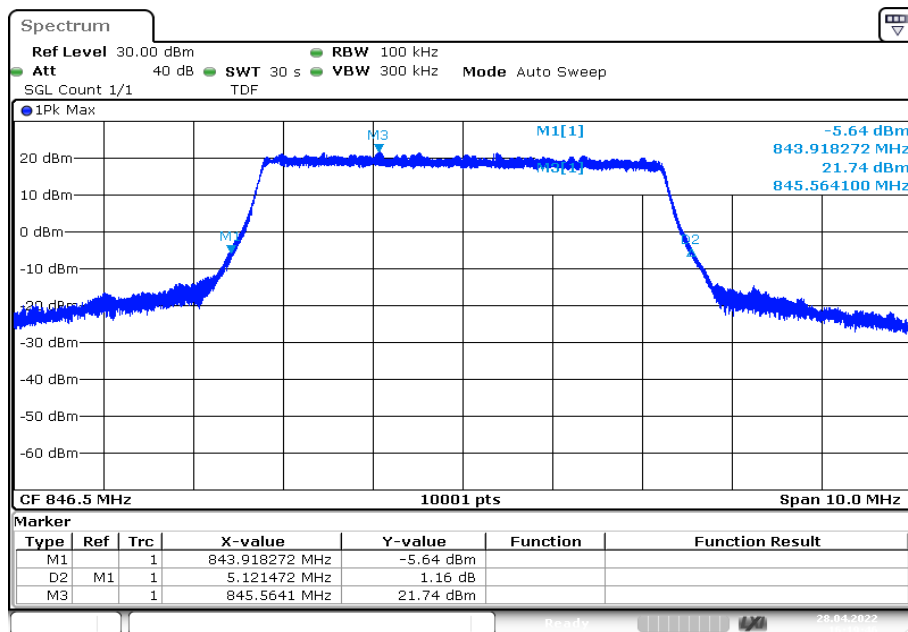
Date: 28.APR.2022 16:17:06

Plot 77: 5 MHz – 64-QAM - highest channel (99% - OBW)



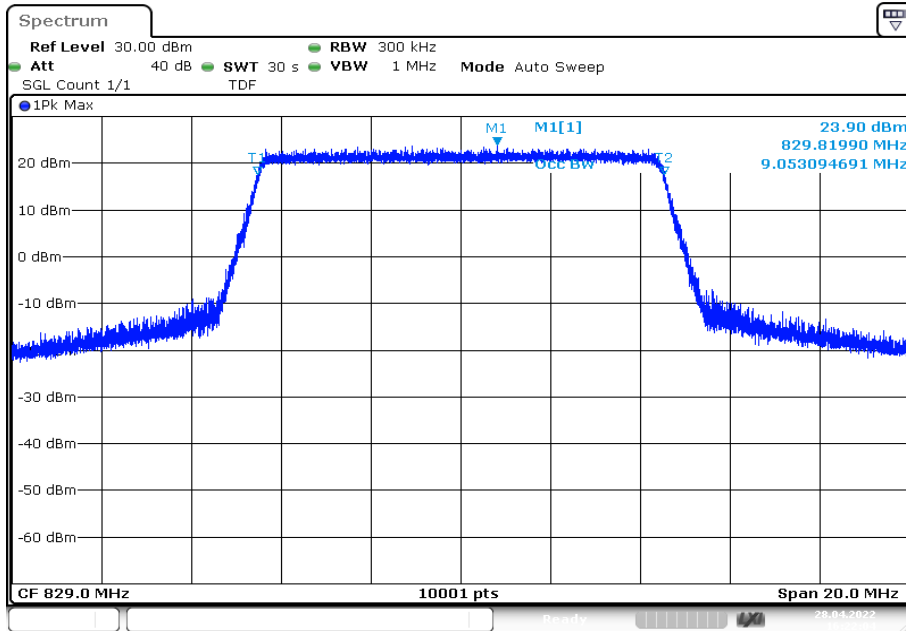
Date: 28.APR.2022 16:19:13

Plot 78: 5 MHz – 64-QAM - highest channel (-26 dBc BW)

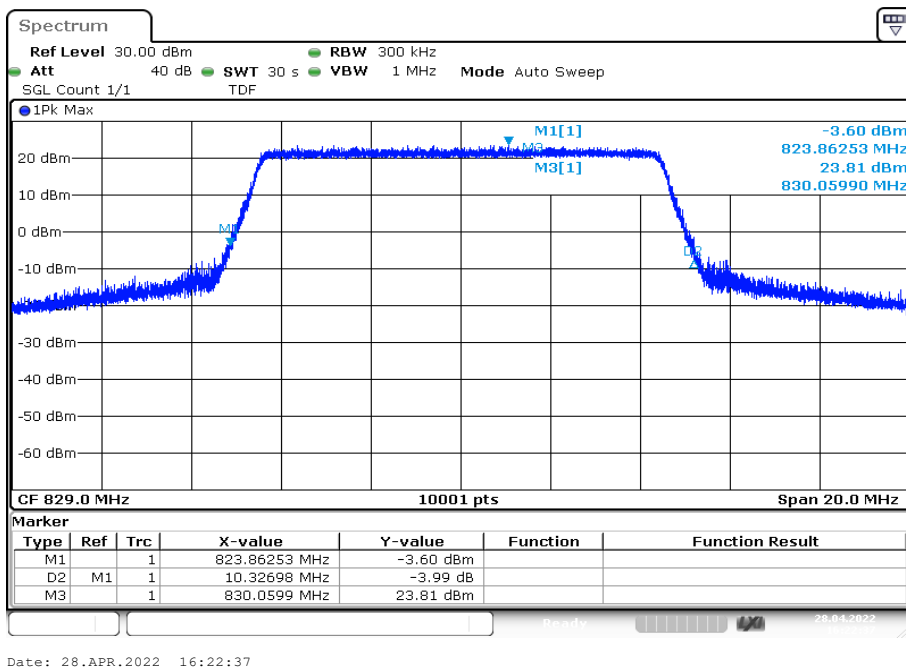


Date: 28.APR.2022 16:19:46

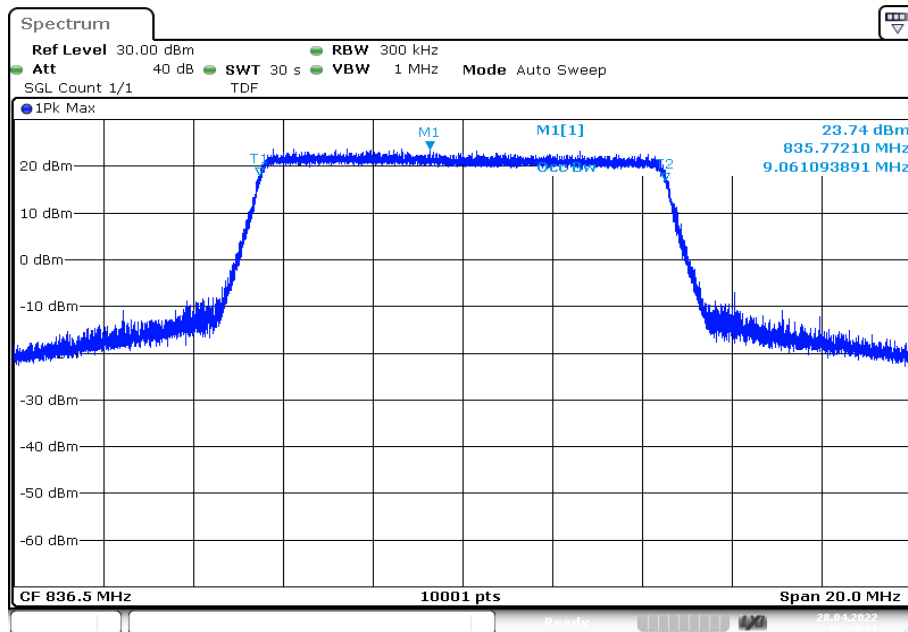
Plot 79: 10 MHz – 64-QAM - lowest channel (99% - OBW)



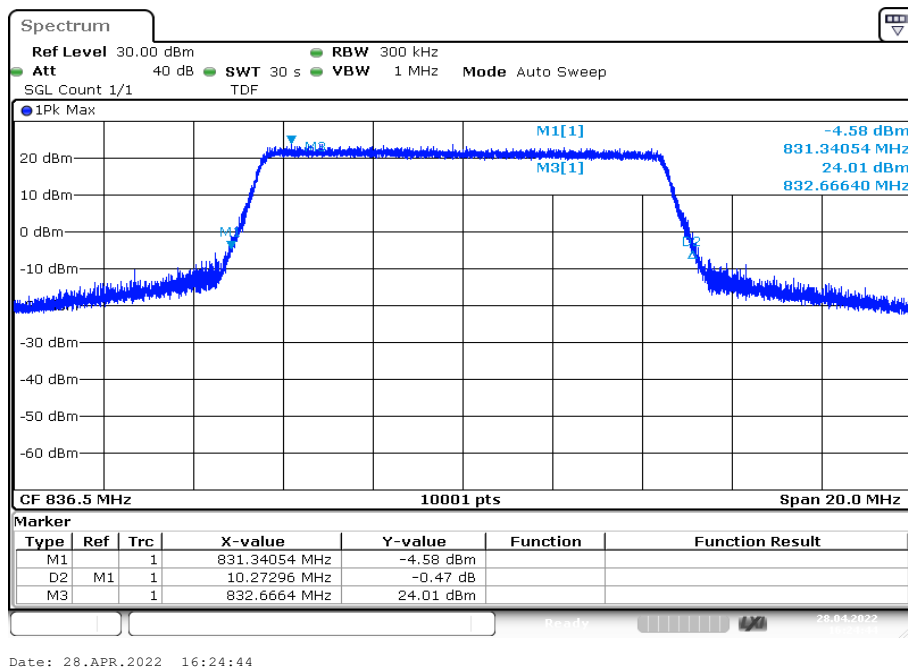
Plot 80: 10 MHz – 64-QAM - lowest channel (-26 dBc BW)



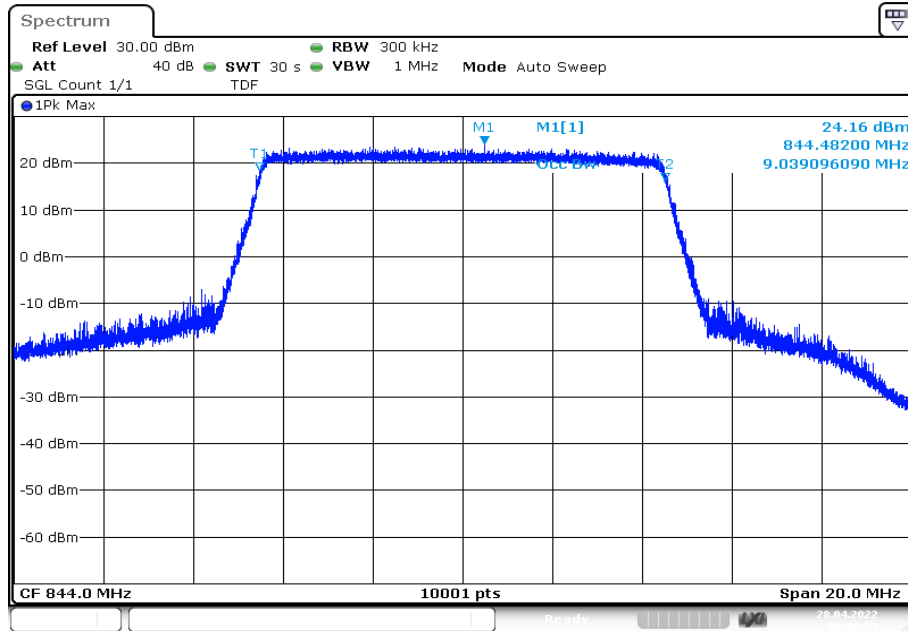
Plot 81: 10 MHz – 64-QAM - middle channel (99% - OBW)



Plot 82: 10 MHz – 64-QAM - middle channel (-26 dBc BW)

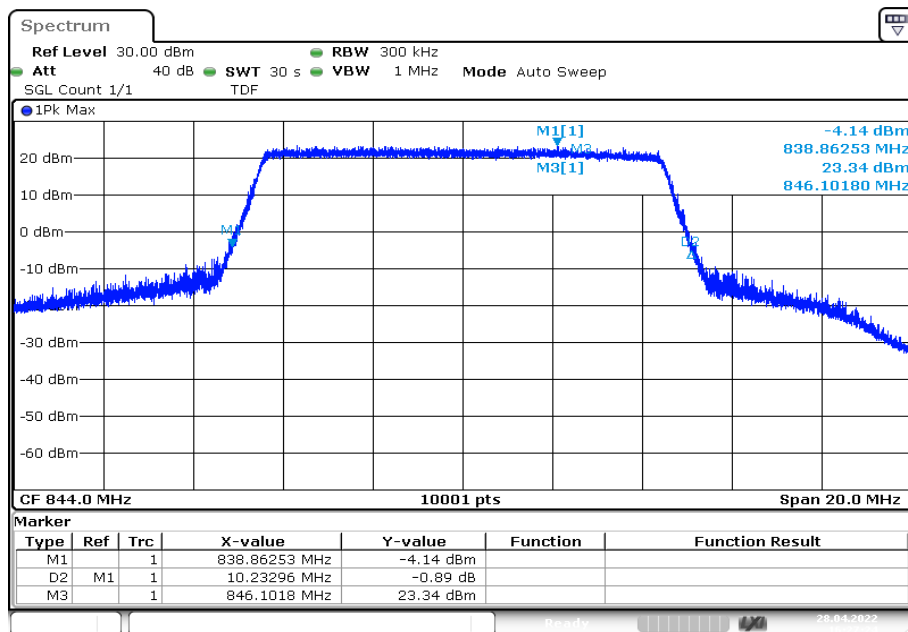


Plot 83: 10 MHz – 64-QAM - highest channel (99% - OBW)



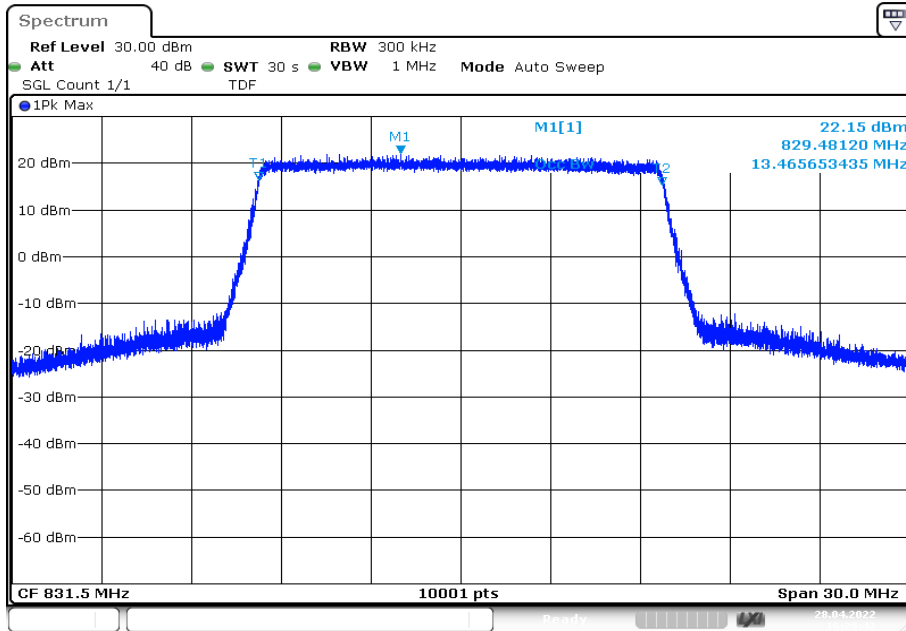
Date: 28.APR.2022 16:26:51

Plot 84: 10 MHz – 64-QAM - highest channel (-26 dBc BW)

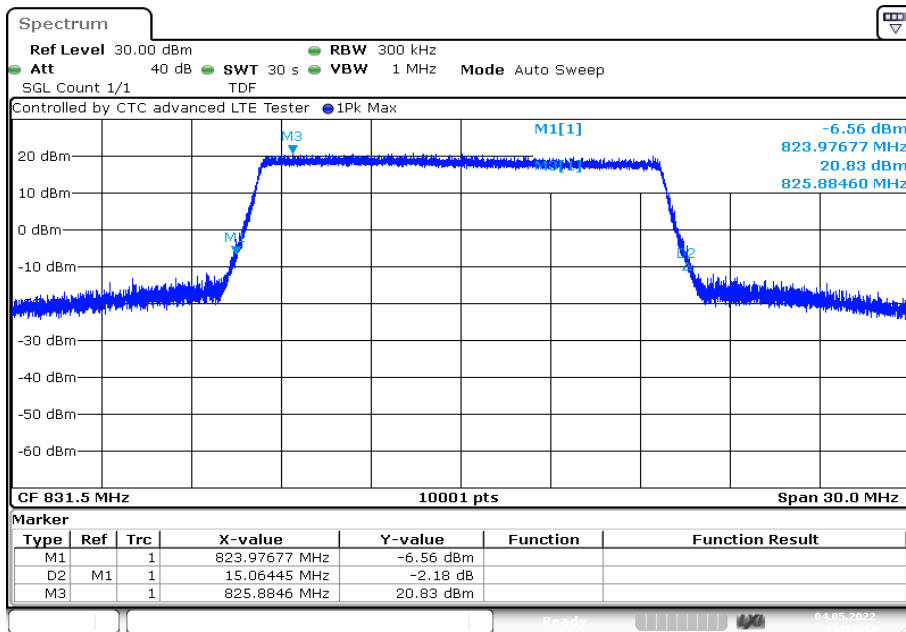


Date: 28.APR.2022 16:27:24

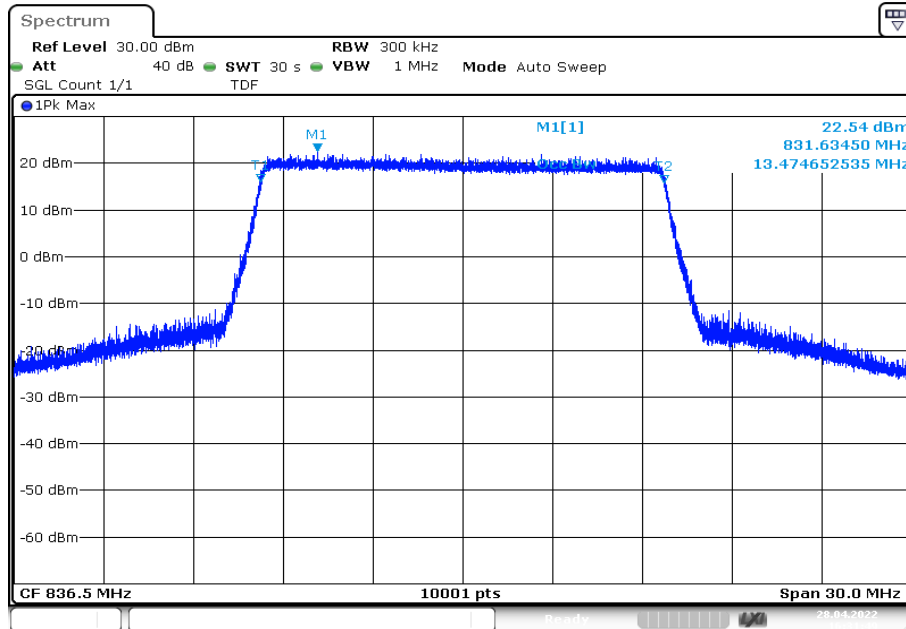
Plot 85: 15 MHz – 64-QAM - lowest channel (99% - OBW)



Plot 86: 15 MHz – 64-QAM - lowest channel (-26 dBc BW)

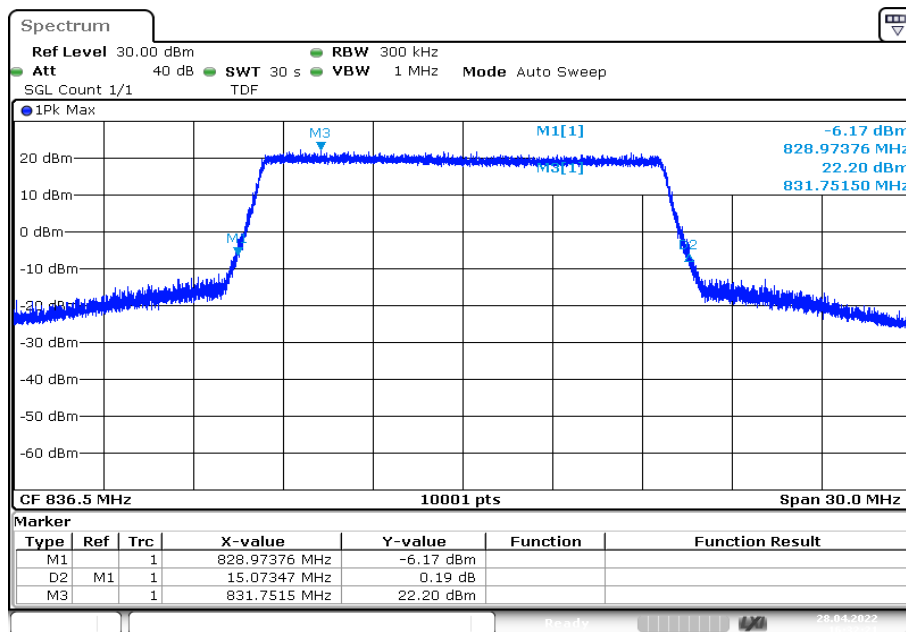


Plot 87: 15 MHz – 64-QAM - middle channel (99% - OBW)



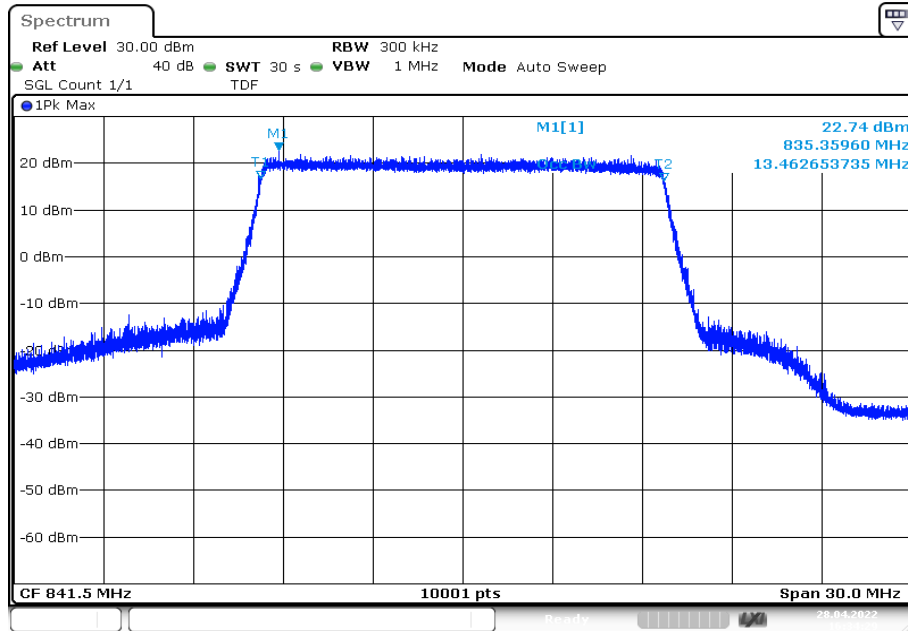
Date: 28.APR.2022 16:31:48

Plot 88: 15 MHz – 64-QAM - middle channel (-26 dBc BW)



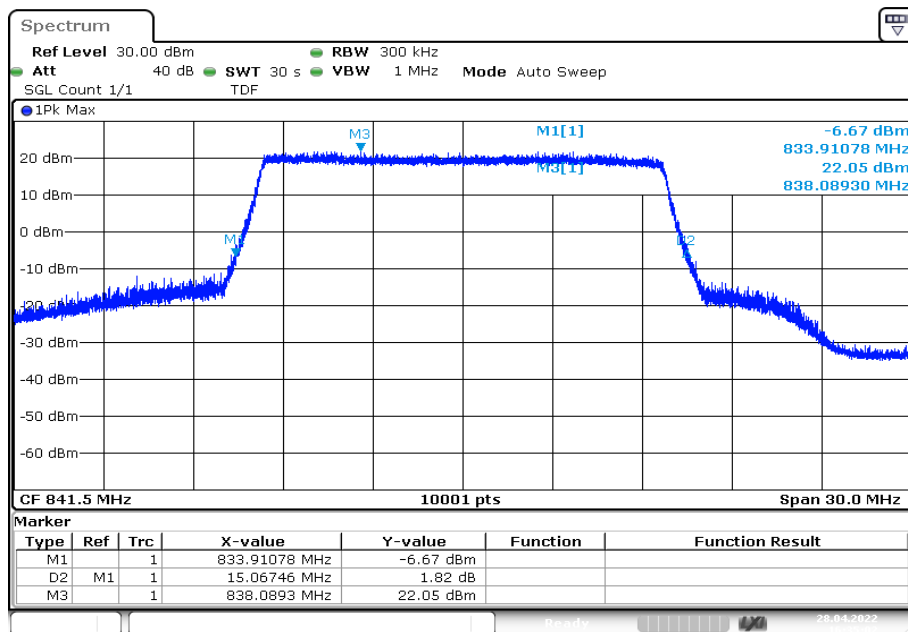
Date: 28.APR.2022 16:32:21

Plot 89: 15 MHz – 64-QAM - highest channel (99% - OBW)



Date: 28.APR.2022 16:34:28

Plot 90: 15 MHz – 64-QAM - highest channel (-26 dBc BW)



Date: 28.APR.2022 16:35:01

12 Glossary

EUT	Equipment under test
DUT	Device under test
UUT	Unit under test
GUE	GNSS User Equipment
ETSI	European Telecommunications Standards Institute
EN	European Standard
FCC	Federal Communications Commission
FCC ID	Company Identifier at FCC
IC	Industry Canada
PMN	Product marketing name
HMN	Host marketing name
HVIN	Hardware version identification number
FVIN	Firmware version identification number
EMC	Electromagnetic Compatibility
HW	Hardware
SW	Software
Inv. No.	Inventory number
S/N or SN	Serial number
C	Compliant
NC	Not compliant
NA	Not applicable
NP	Not performed
PP	Positive peak
QP	Quasi peak
AVG	Average
OC	Operating channel
OCW	Operating channel bandwidth
OBW	Occupied bandwidth
OOB	Out of band
DFS	Dynamic frequency selection
CAC	Channel availability check
OP	Occupancy period
NOP	Non occupancy period
DC	Duty cycle
PER	Packet error rate
CW	Clean wave
MC	Modulated carrier
WLAN	Wireless local area network
RLAN	Radio local area network
DSSS	Dynamic sequence spread spectrum
OFDM	Orthogonal frequency division multiplexing
FHSS	Frequency hopping spread spectrum
GNSS	Global Navigation Satellite System
C/N₀	Carrier to noise-density ratio, expressed in dB-Hz

13 Document history

Version	Applied changes	Date of release
-/-	Initial release	2022-05-31

14 Accreditation Certificate – D-PL-12076-01-05

first page	last page
<p>The first page of the accreditation certificate includes the DAkkS logo (Deutsche Akkreditierungsstelle), the company name 'Deutsche Akkreditierungsstelle GmbH', and accreditation details for CTC advanced GmbH. It states that the company is competent under DIN EN ISO/IEC 17025:2018 for telecommunication (FCC Requirements) in Saarbrücken. The registration number is D-PL-12076-01-05, issued on 09.06.2020.</p>	<p>The last page of the certificate lists three office locations: Berlin, Frankfurt am Main, and Braunschweig. It contains legal disclaimers regarding the publication of extracts and the scope of accreditation, and provides website links for EA, ILAC, and IAF.</p>

Note: The current certificate annex is published on the websites (link see below).

<https://www.dakks.de/files/data/as/pdf/D-PL-12076-01-05e.pdf>

or

https://ctcadvanced.com/app/uploads/2020/06/D-PL-12076-01-05_TCB_USA.pdf

END OF TEST REPORT