

12.2.5 Block edge compliance

Description:

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

Measurement:

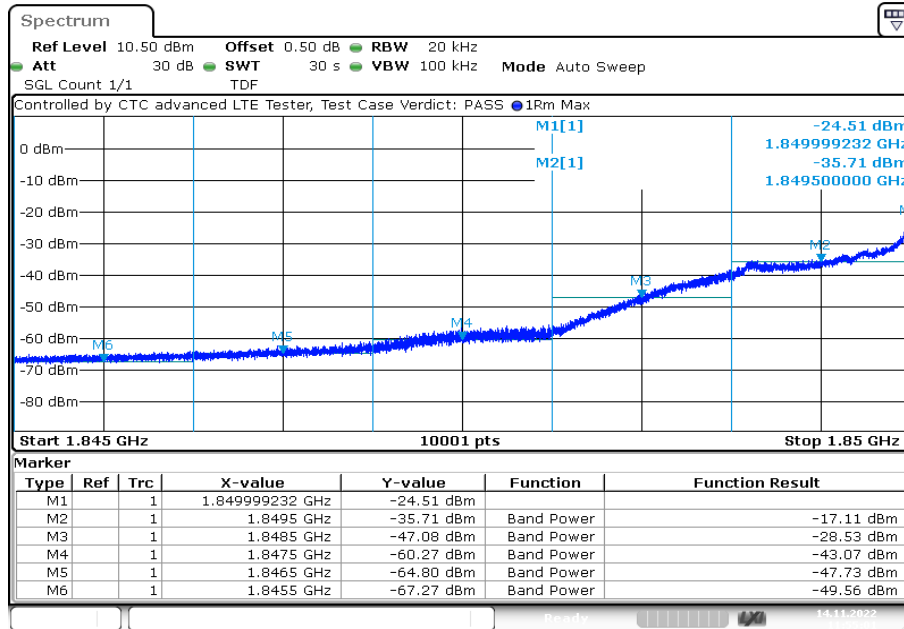
Measurement parameters	
Detector:	RMS
Sweep time:	180 sec.
Video bandwidth:	100 kHz
Resolution bandwidth:	20 kHz
Span:	1 MHz steps
Trace-Mode:	Max Hold
Used equipment:	See chapter 8.4 setup A
Measurement uncertainty:	See chapter 9
Measurement procedure	FCC: § 2.1051

Limits:

FCC
§ 24.238 (a) & (b)
<p>(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.</p> <p>(b) Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth 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 the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz 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.</p>
<p style="text-align: center;">-13 dBm</p> <p style="text-align: center;">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: $RBW1 = Y, RBW2 = Z$</p>

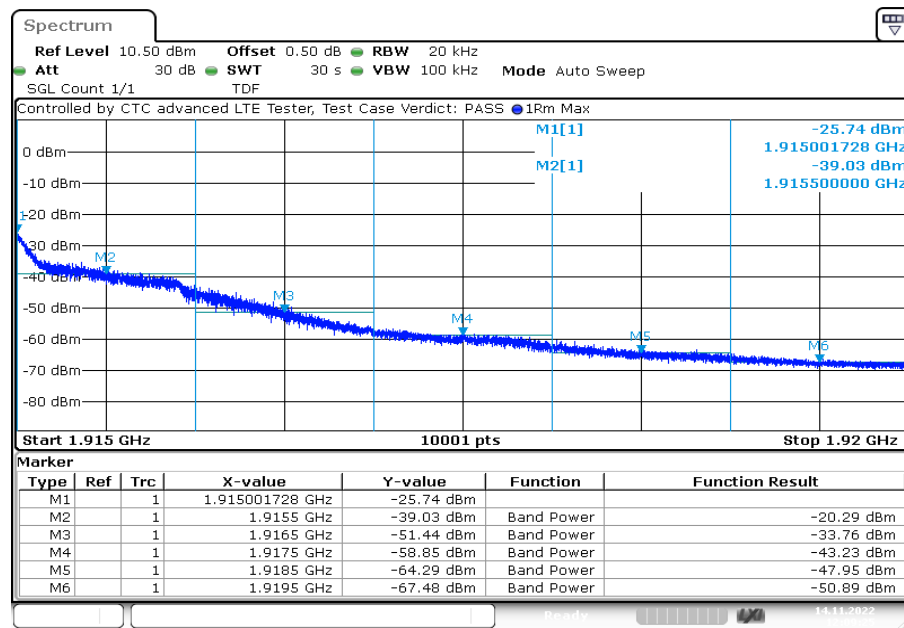
Results:

Plot 1: 1.4 MHz – QPSK - Lowest channel



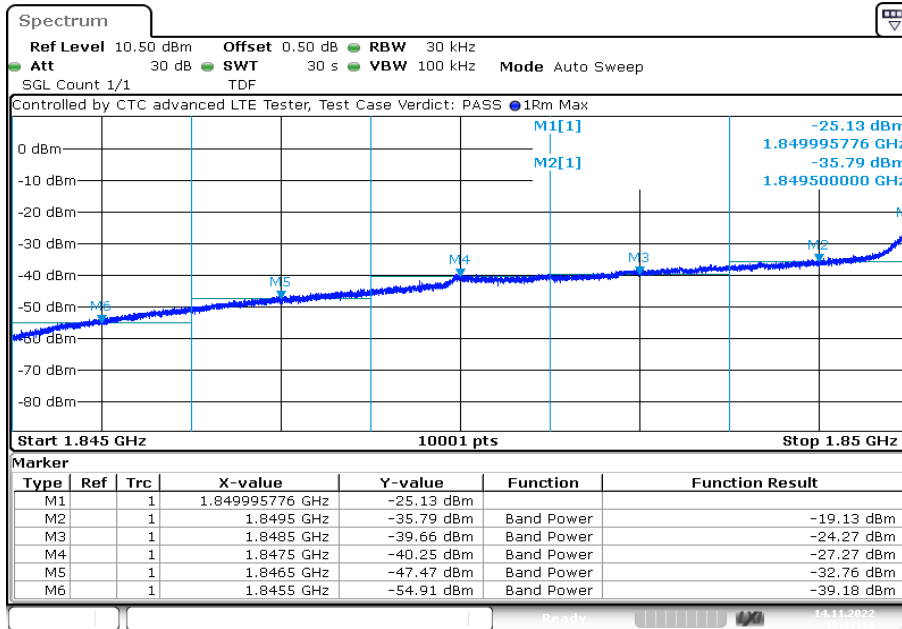
Date: 14.NOV.2022 11:55:01

Plot 2: 1.4 MHz – QPSK - Highest channel



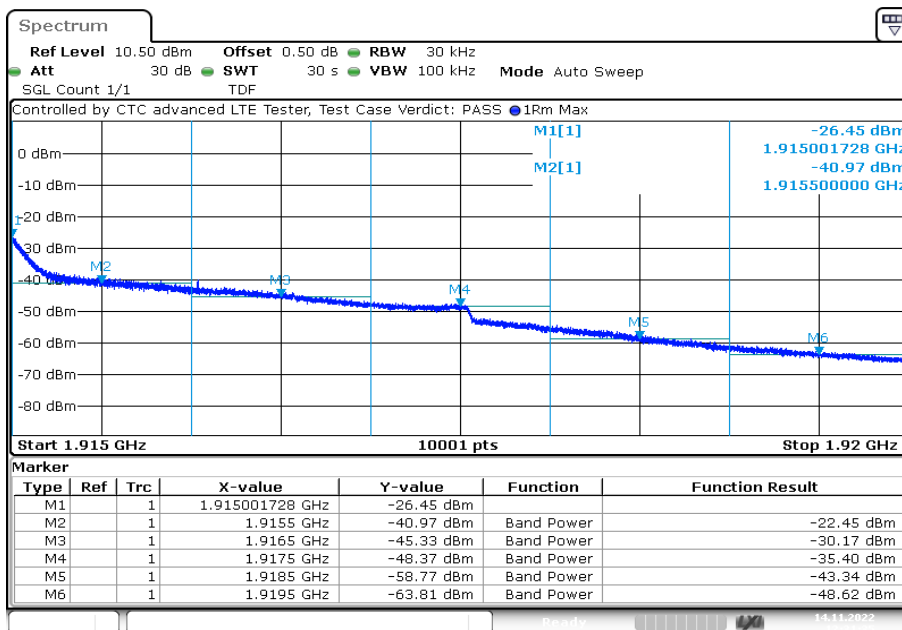
Date: 14.NOV.2022 12:09:25

Plot 3: 3 MHz – QPSK - Lowest channel



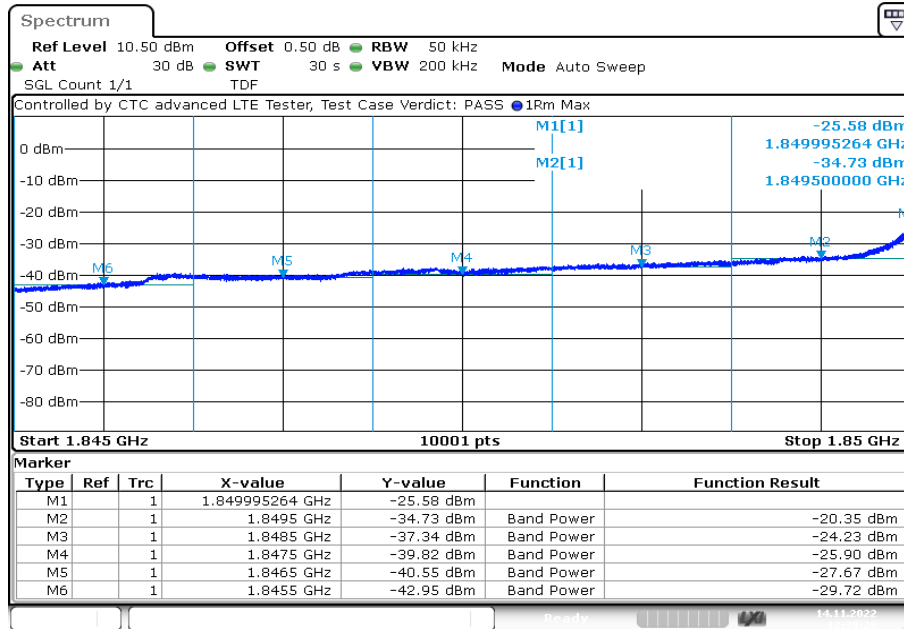
Date: 14.NOV.2022 12:17:20

Plot 4: 3 MHz – QPSK - Highest channel



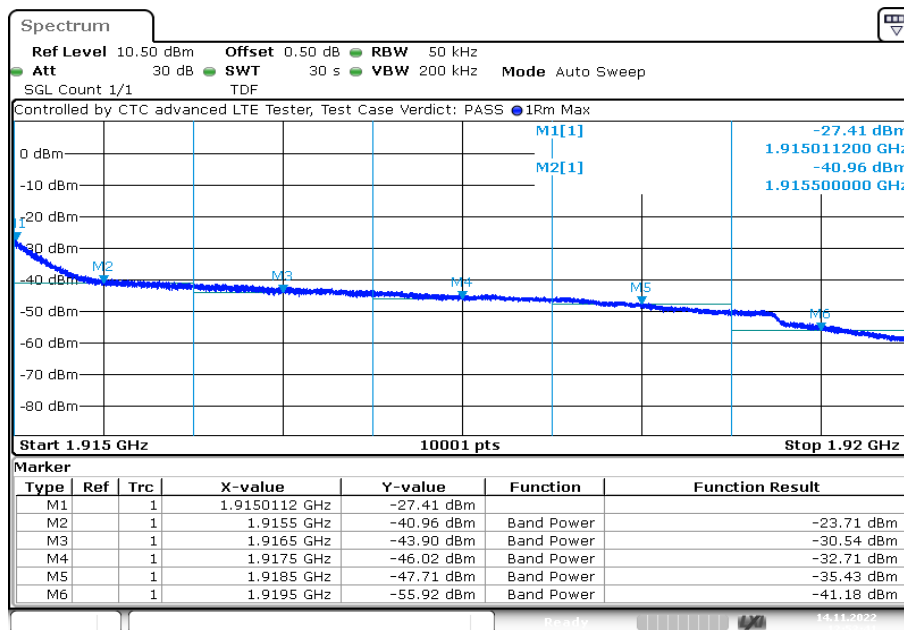
Date: 14.NOV.2022 12:31:35

Plot 5: 5 MHz – QPSK - Lowest channel



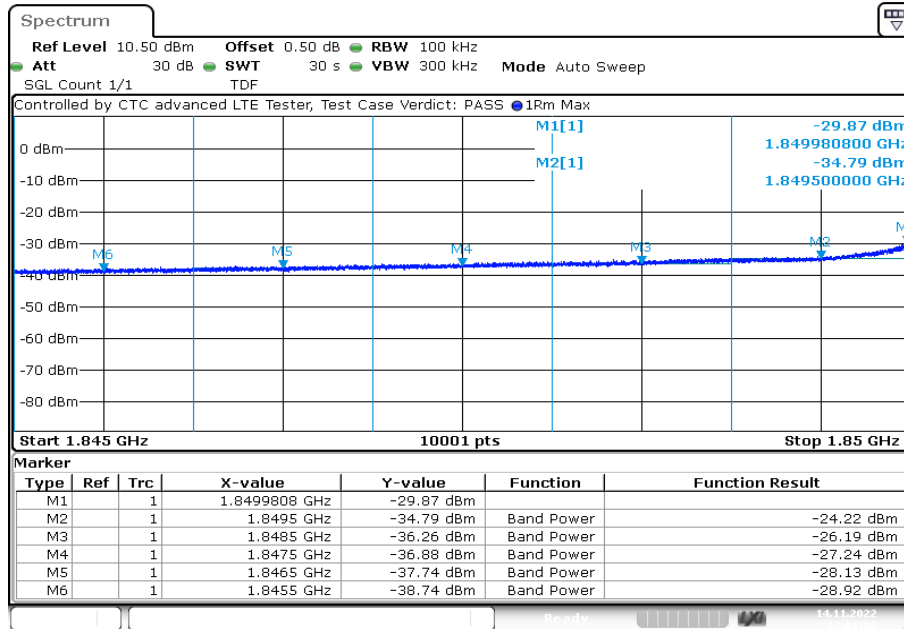
Date: 14.NOV.2022 12:39:26

Plot 6: 5 MHz – QPSK - Highest channel



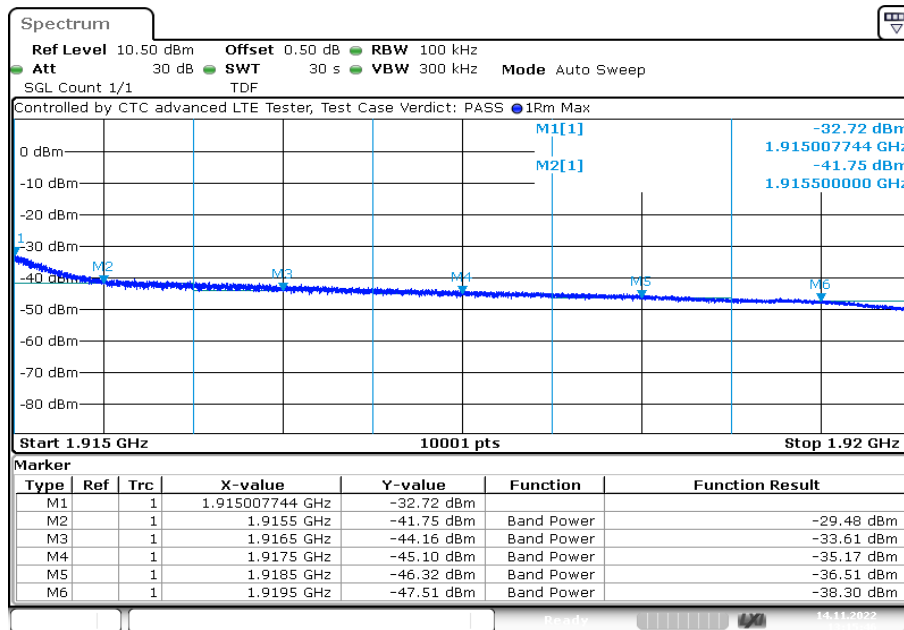
Date: 14.NOV.2022 12:53:41

Plot 7: 10 MHz – QPSK - Lowest channel



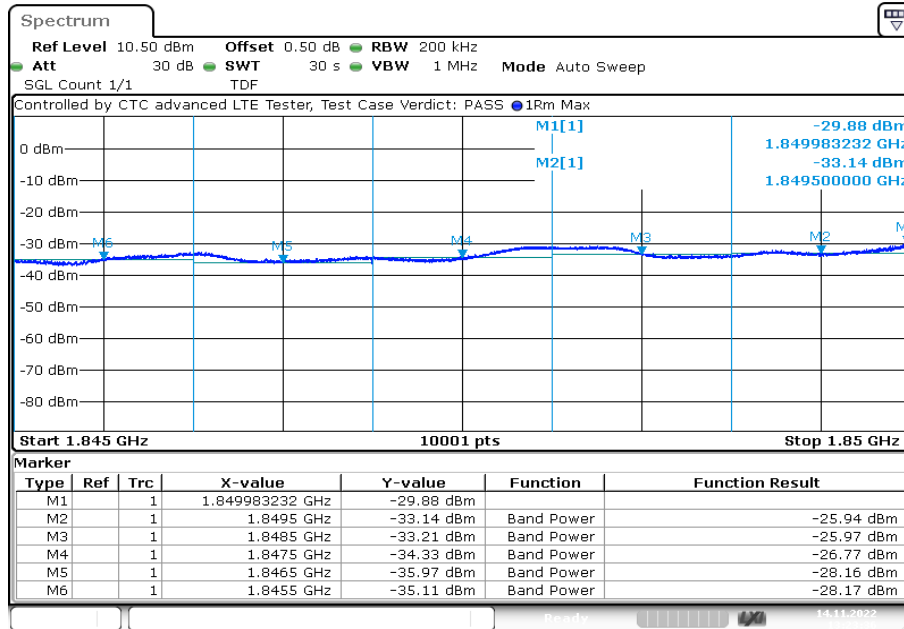
Date: 14.NOV.2022 13:01:32

Plot 8: 10 MHz – QPSK - Highest channel



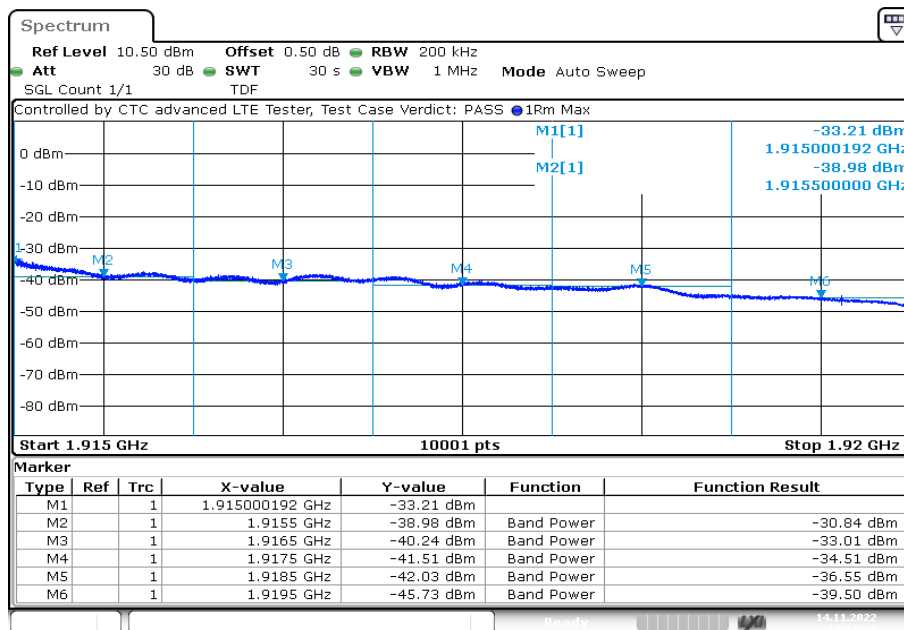
Date: 14.NOV.2022 13:15:46

Plot 9: 15 MHz – QPSK - Lowest channel



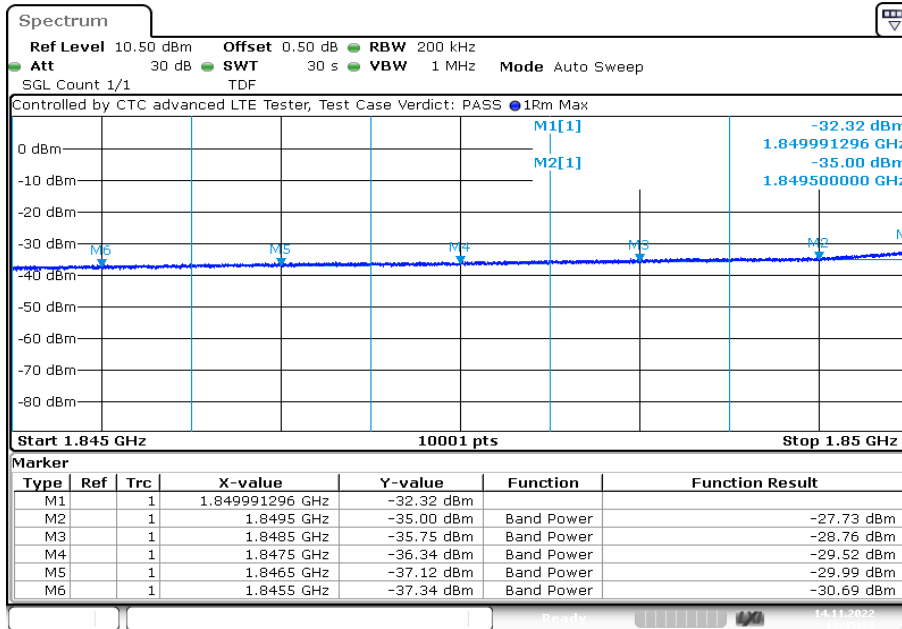
Date: 14.NOV.2022 13:23:36

Plot 10: 15 MHz – QPSK - Highest channel

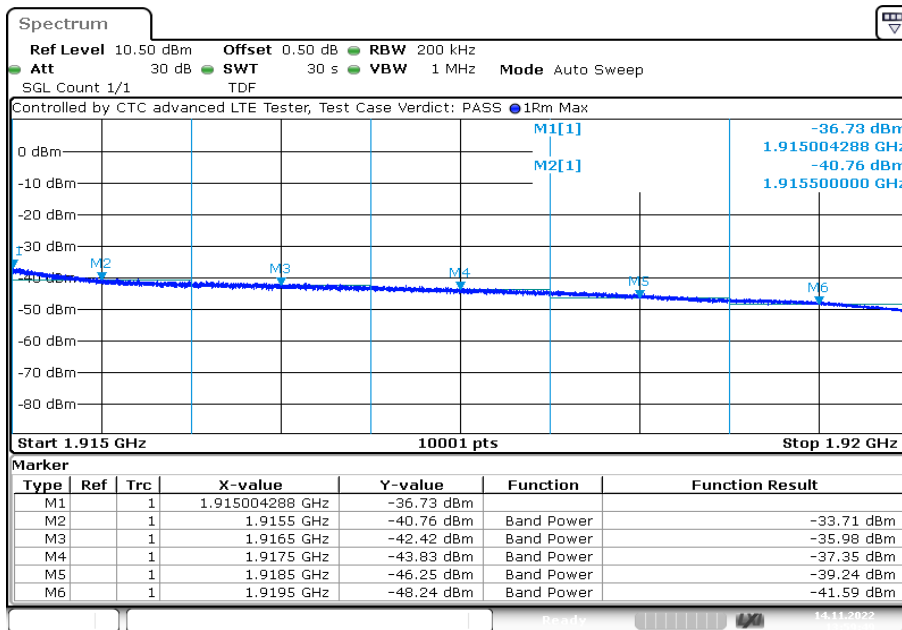


Date: 14.NOV.2022 13:37:49

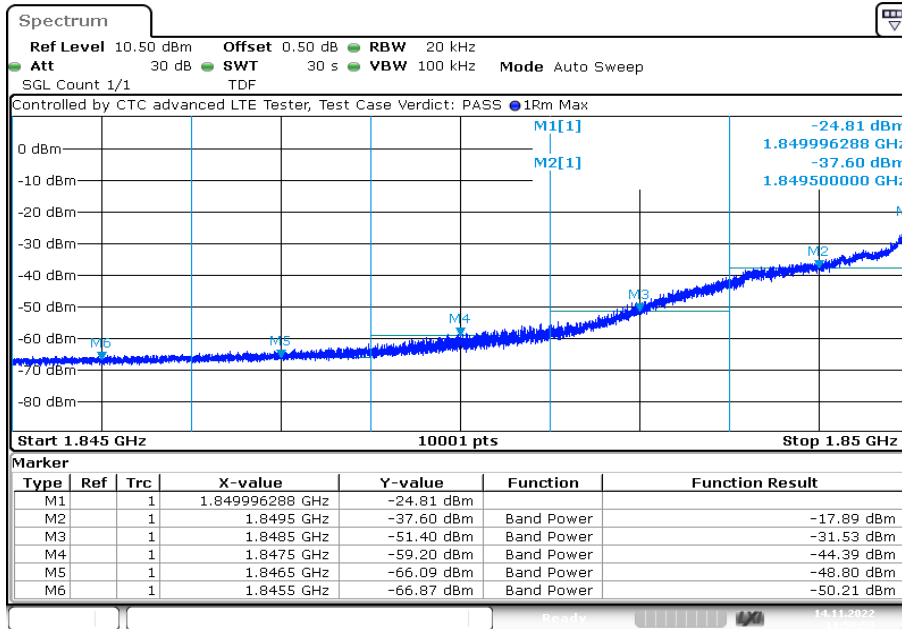
Plot 11: 20 MHz – QPSK - Lowest channel



Plot 12: 20 MHz – QPSK - Highest channel

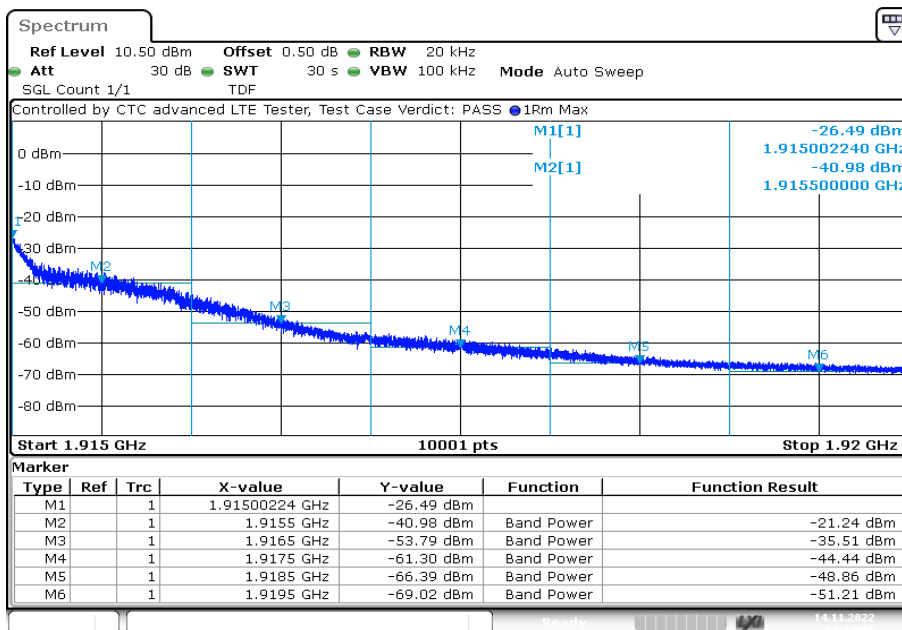


Plot 13: 1.4 MHz – 16-QAM - Lowest channel



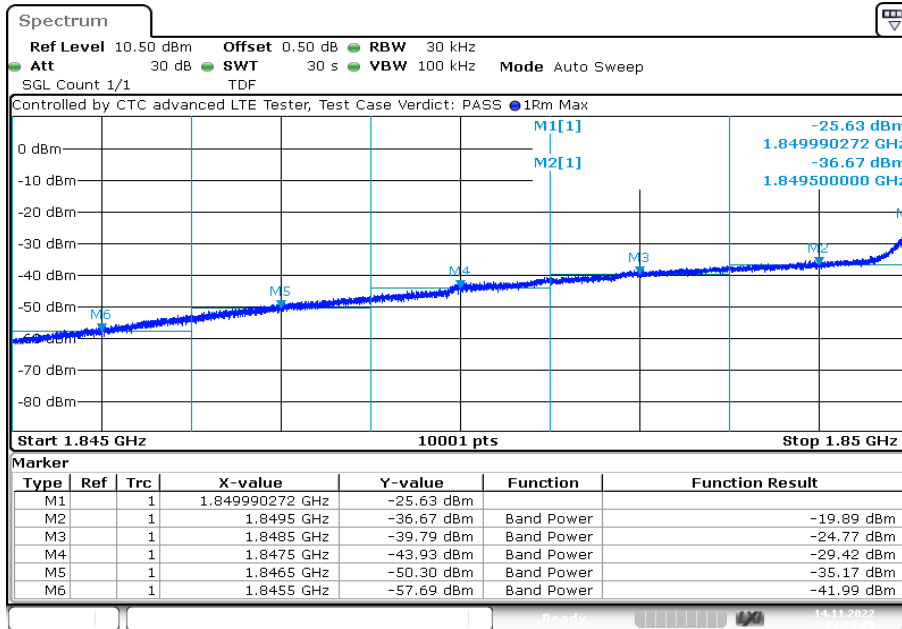
Date: 14.NOV.2022 11:58:53

Plot 14: 1.4 MHz – 16-QAM - Highest channel



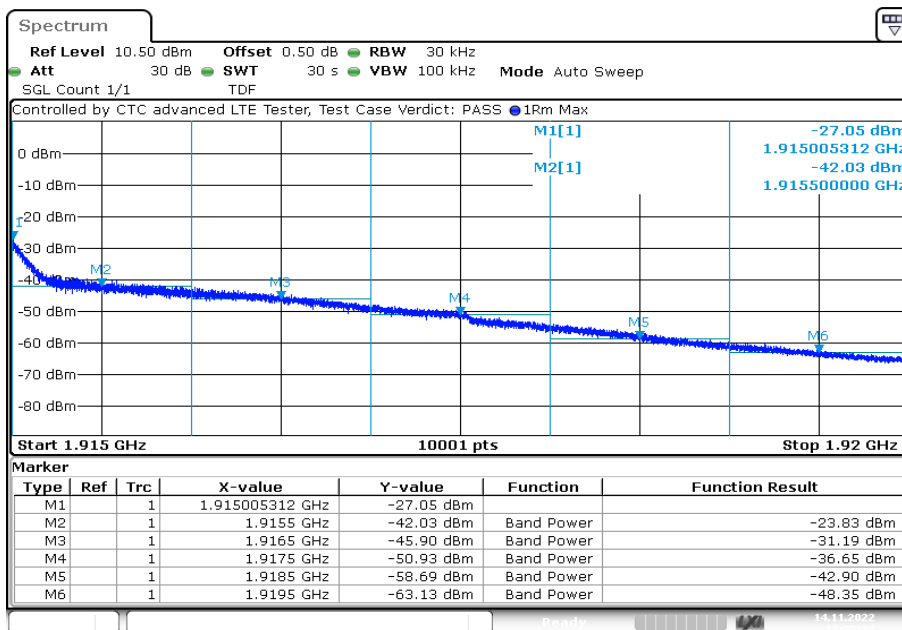
Date: 14.NOV.2022 12:13:16

Plot 15: 3 MHz – 16-QAM - Lowest channel



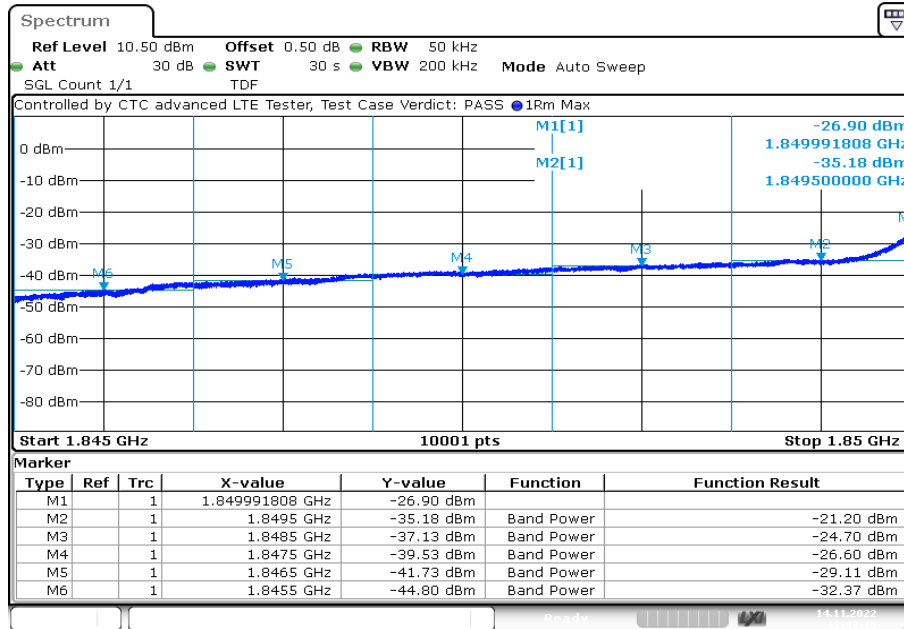
Date: 14.NOV.2022 12:21:09

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



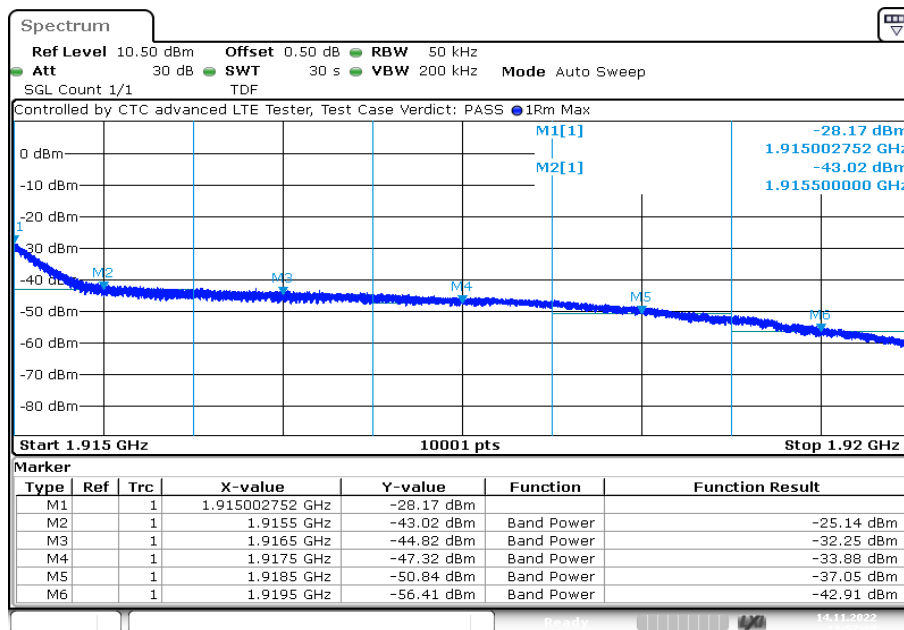
Date: 14.NOV.2022 12:35:24

Plot 17: 5 MHz – 16-QAM - Lowest channel



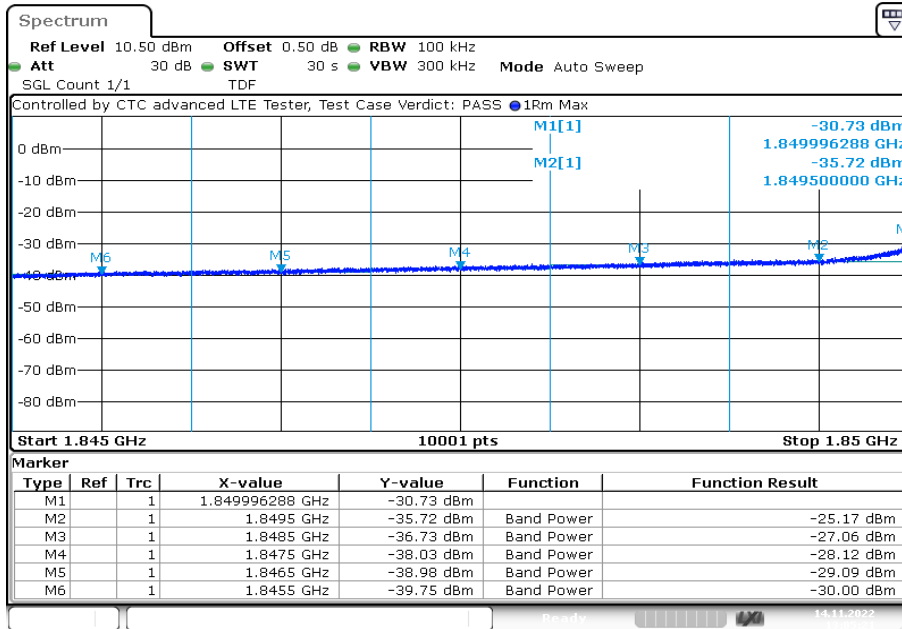
Date: 14.NOV.2022 12:43:16

Plot 18: 5 MHz – 16-QAM - Highest channel



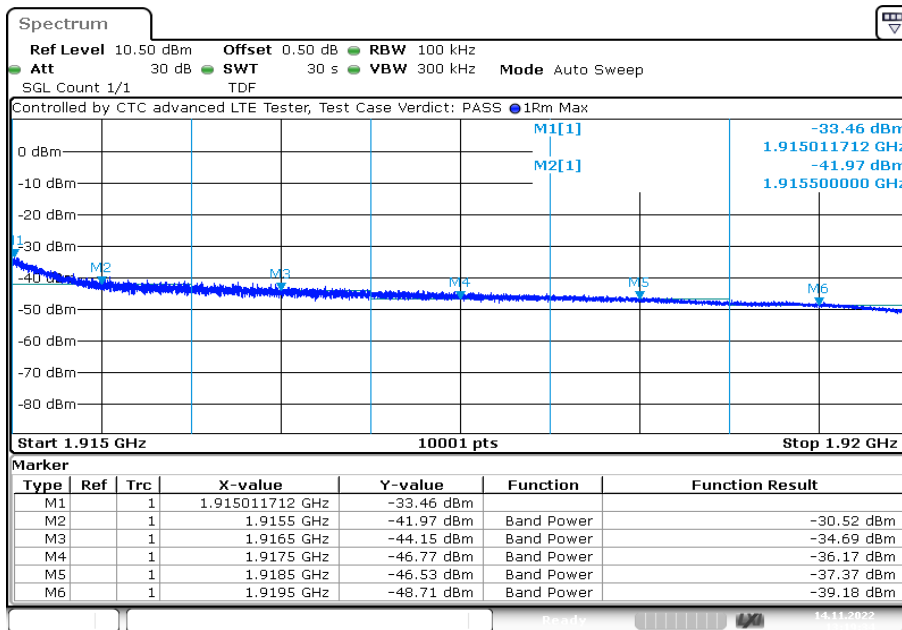
Date: 14.NOV.2022 12:57:30

Plot 19: 10 MHz – 16-QAM - Lowest channel



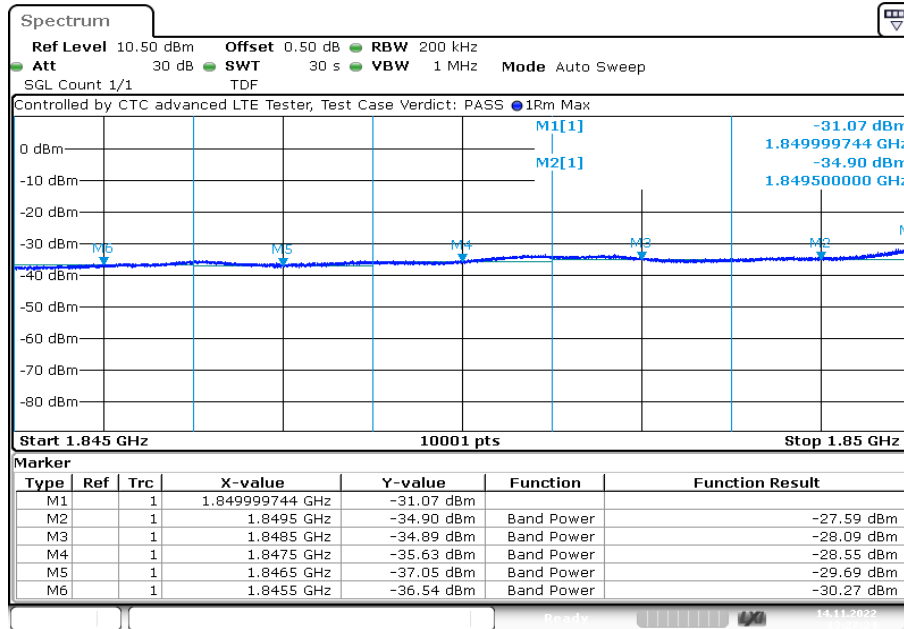
Date: 14.NOV.2022 13:05:21

Plot 20: 10 MHz – 16-QAM - Highest channel



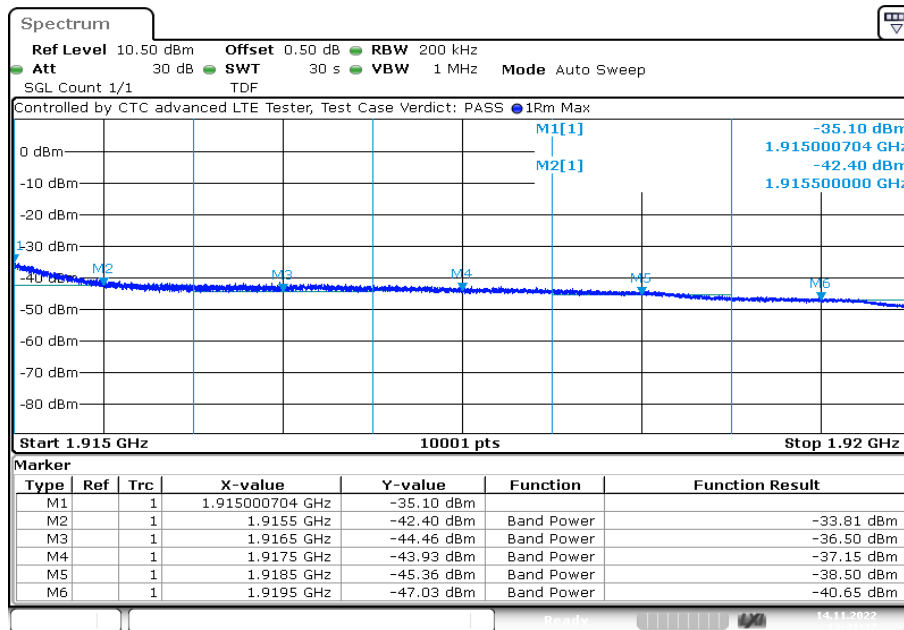
Date: 14.NOV.2022 13:19:35

Plot 21: 15 MHz – 16-QAM - Lowest channel



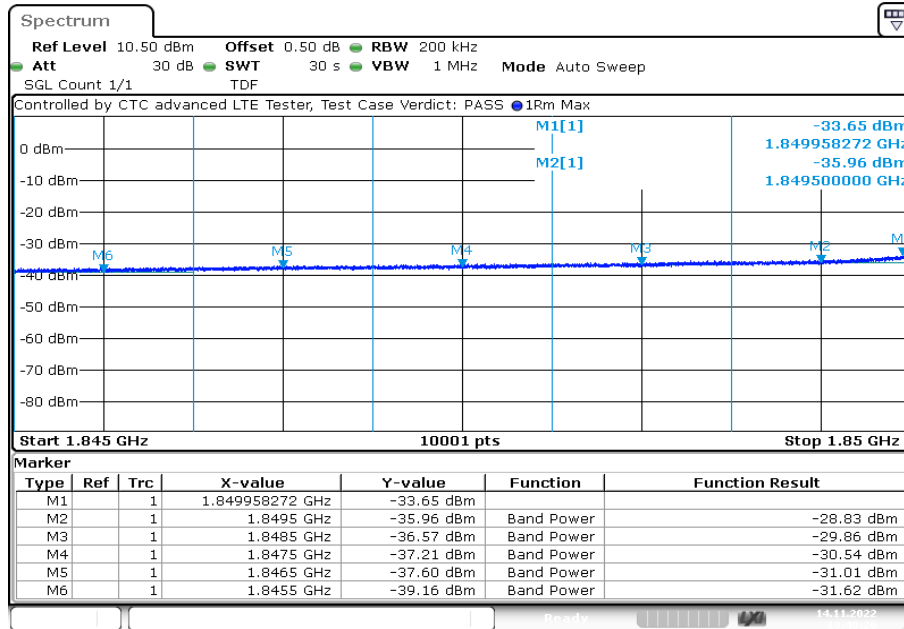
Date: 14.NOV.2022 13:27:25

Plot 22: 15 MHz – 16-QAM - Highest channel



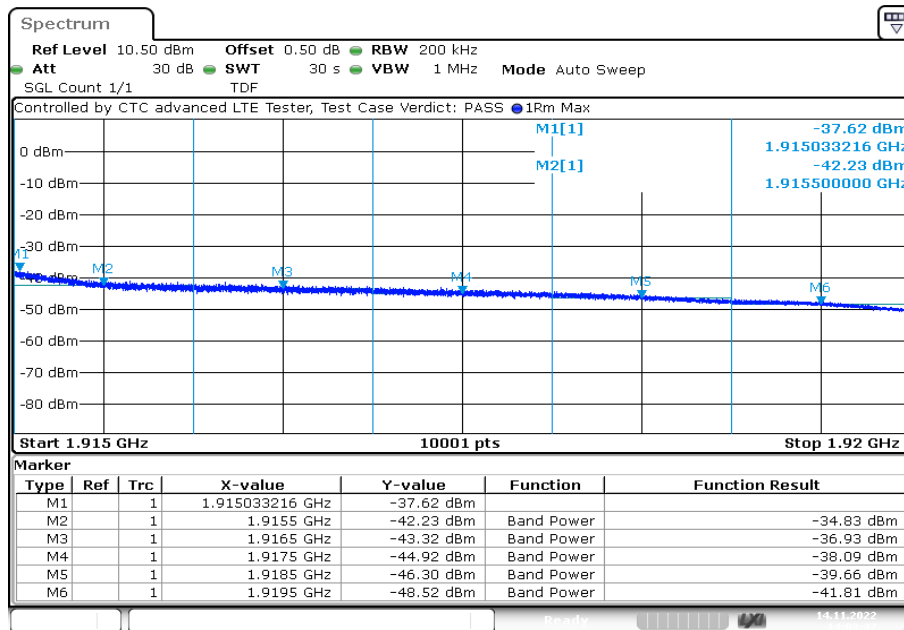
Date: 14.NOV.2022 13:41:37

Plot 23: 20 MHz – 16-QAM - Lowest channel



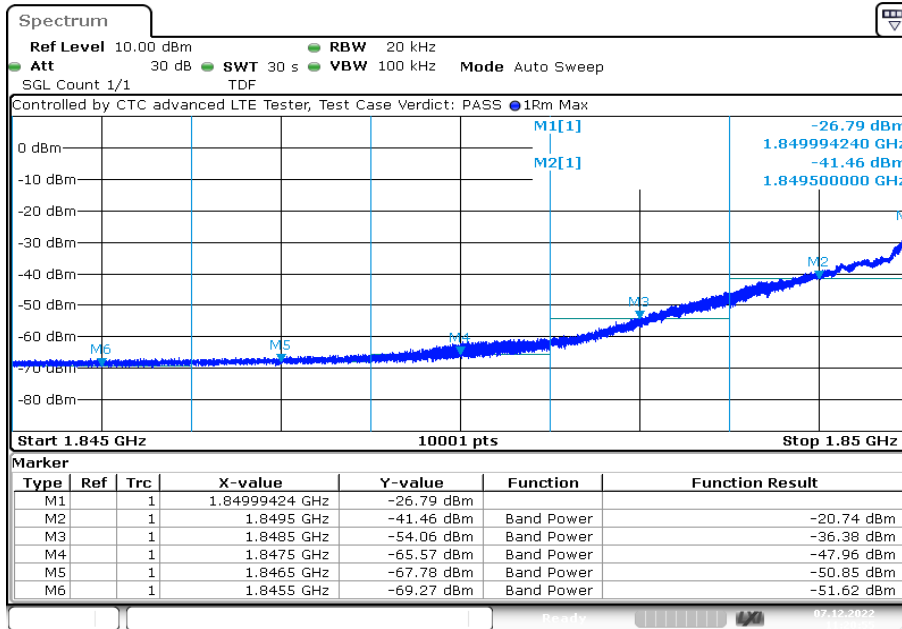
Date: 14.NOV.2022 13:49:26

Plot 24: 20 MHz – 16-QAM - Highest channel



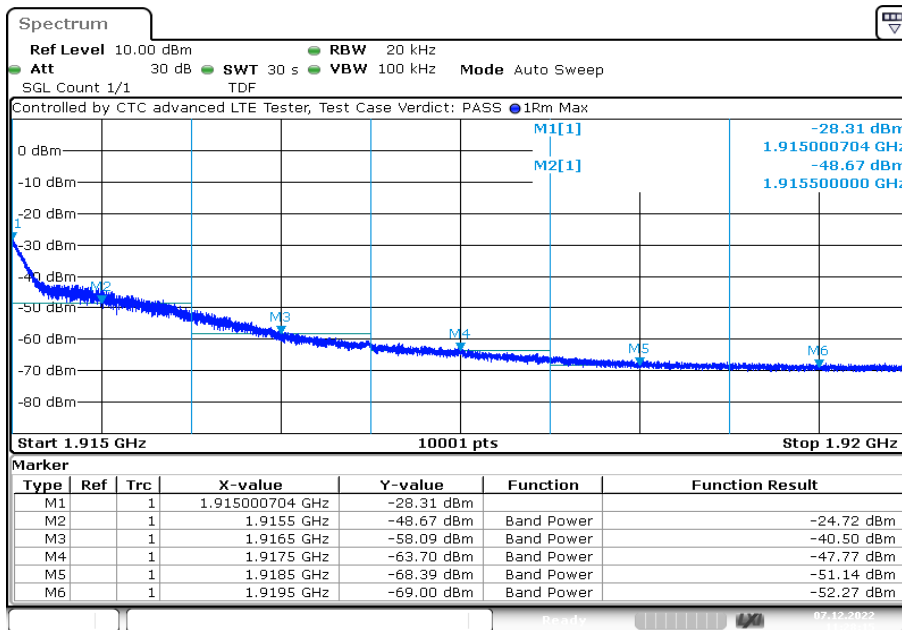
Date: 14.NOV.2022 14:03:38

Plot 25: 1.4 MHz – 64-QAM - Lowest channel



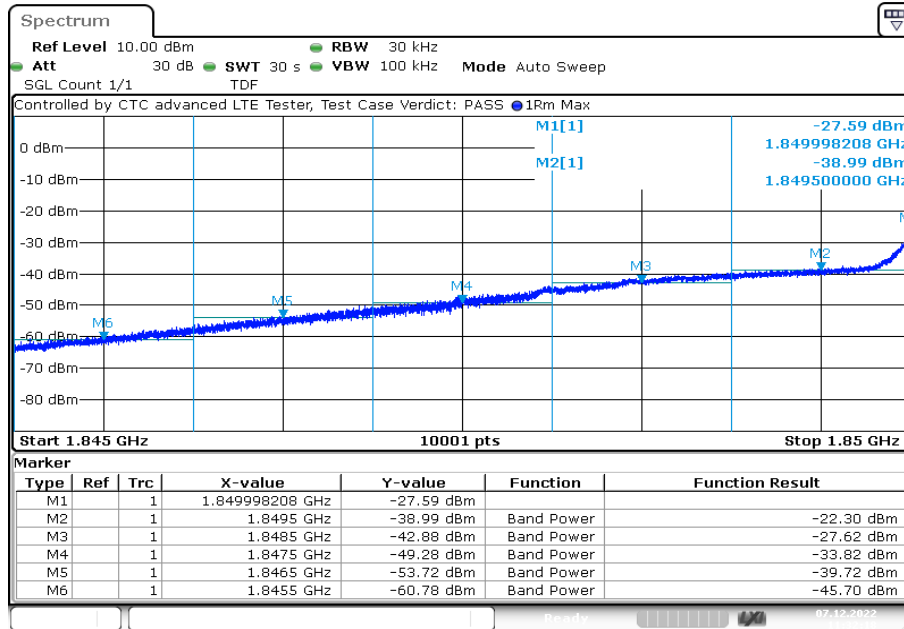
Date: 7.DEC.2022 11:20:55

Plot 26: 1.4 MHz – 64-QAM - Highest channel



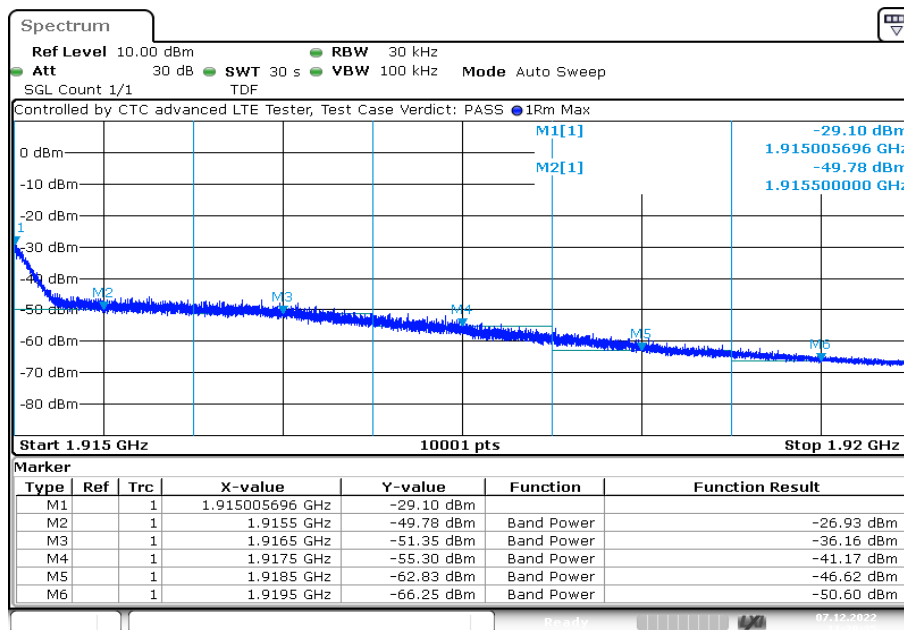
Date: 7.DEC.2022 11:28:15

Plot 27: 3 MHz – 64-QAM - Lowest channel



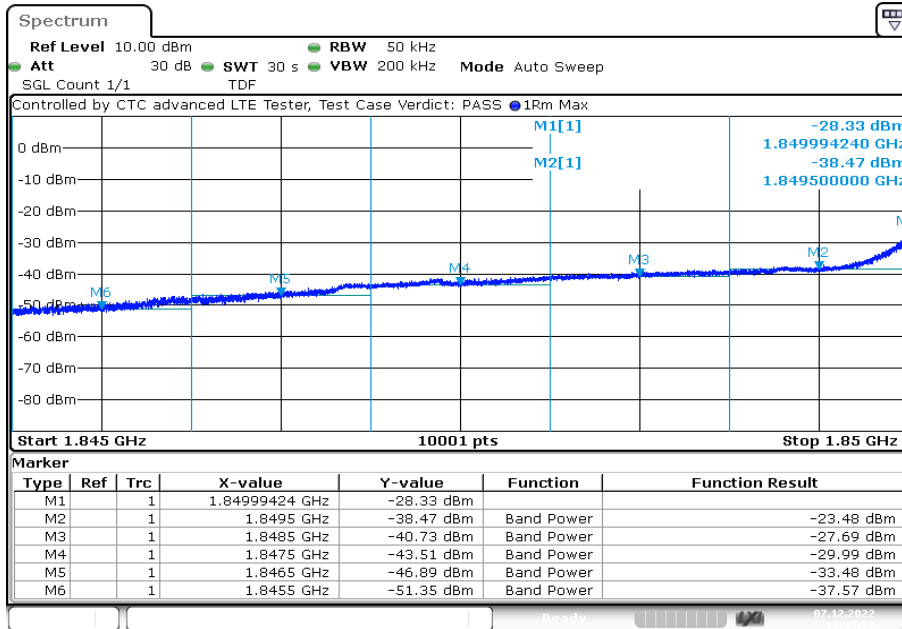
Date: 7.DEC.2022 11:32:18

Plot 28: 3 MHz – 64-QAM - Highest channel



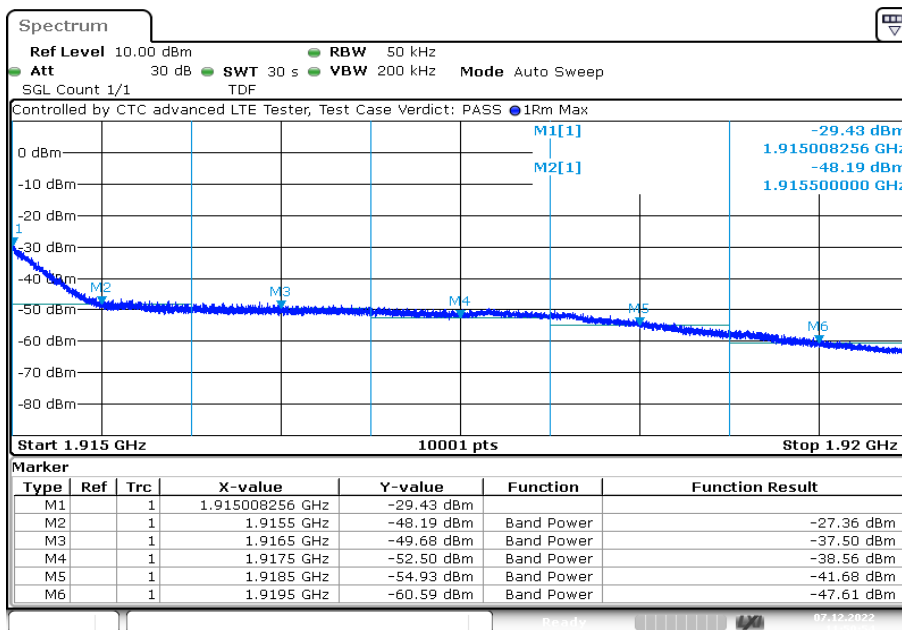
Date: 7.DEC.2022 11:39:35

Plot 29: 5 MHz – 64-QAM - Lowest channel



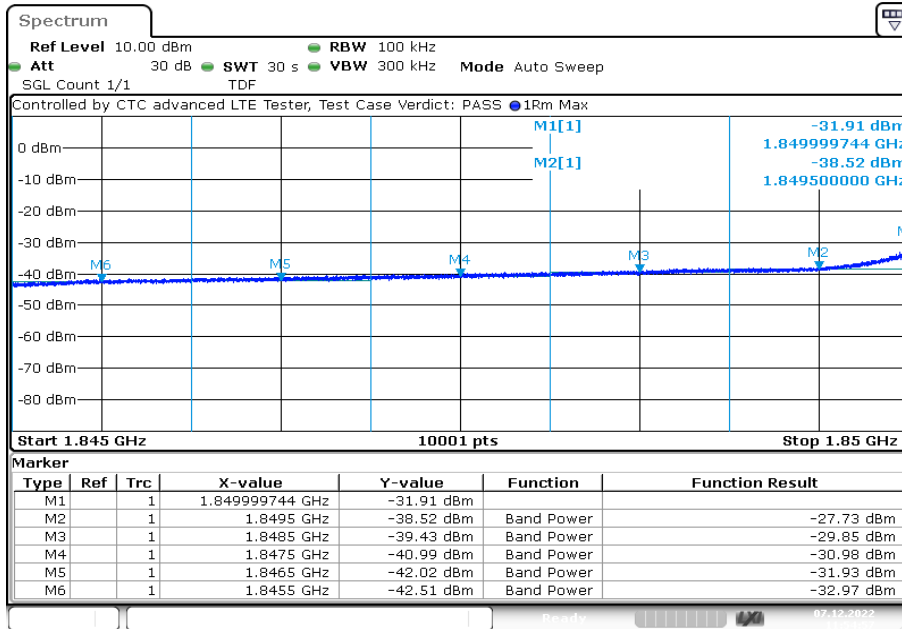
Date: 7.DEC.2022 11:43:37

Plot 30: 5 MHz – 64-QAM - Highest channel



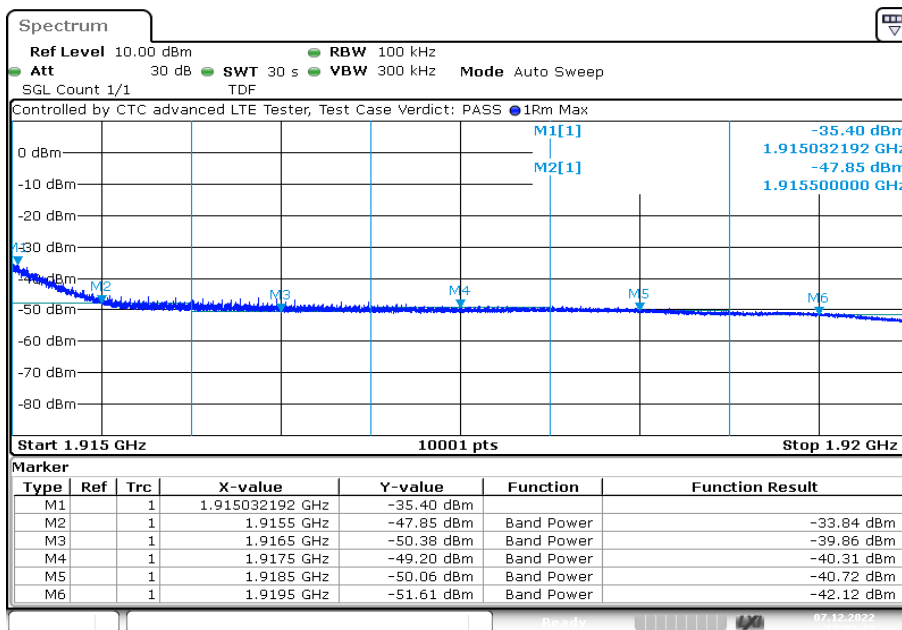
Date: 7.DEC.2022 11:50:54

Plot 31: 10 MHz – 64-QAM - Lowest channel



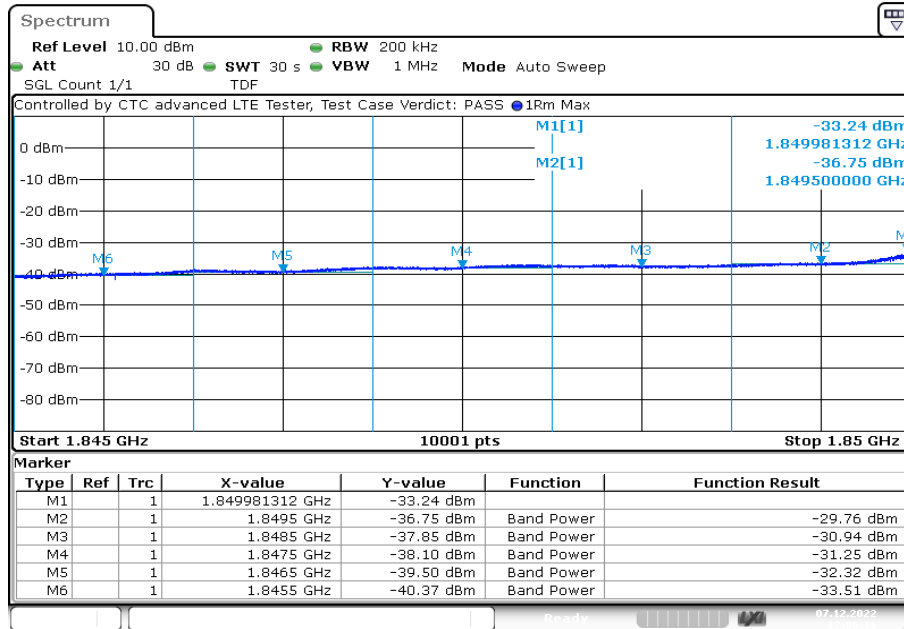
Date: 7.DEC.2022 11:54:57

Plot 32: 10 MHz – 64-QAM - Highest channel



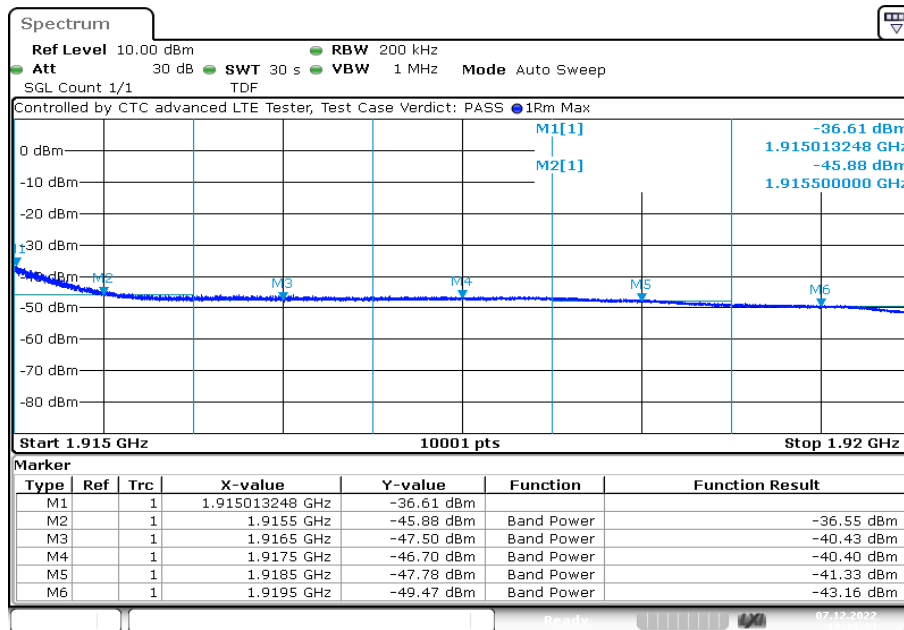
Date: 7.DEC.2022 12:02:14

Plot 33: 15 MHz – 64-QAM - Lowest channel



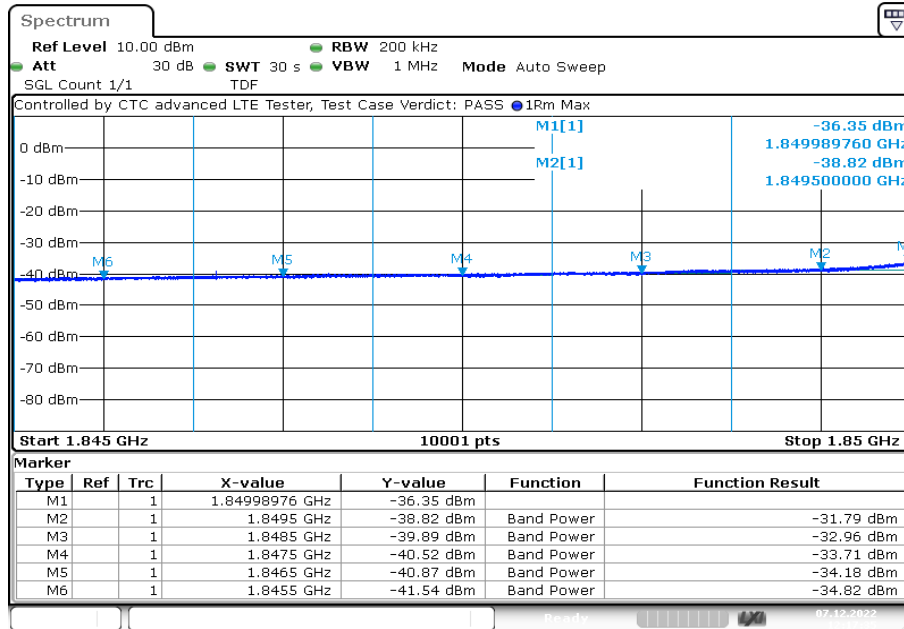
Date: 7.DEC.2022 12:06:16

Plot 34: 15 MHz – 64-QAM - Highest channel



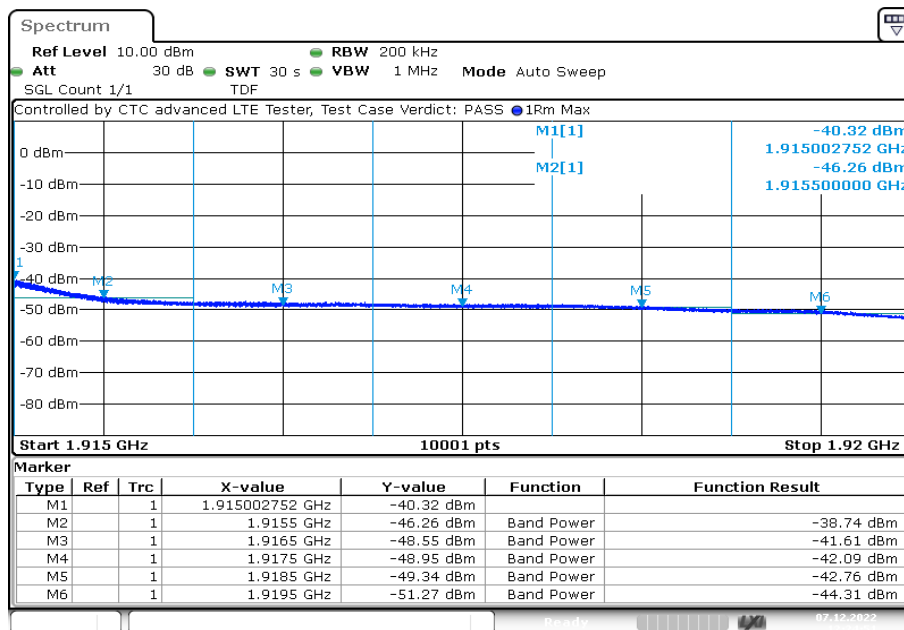
Date: 7.DEC.2022 12:13:33

Plot 35: 20 MHz – 64-QAM - Lowest channel



Date: 7.DEC.2022 12:17:35

Plot 36: 20 MHz – 64-QAM - Highest channel



Date: 7.DEC.2022 12:24:51

12.2.6 Occupied bandwidth

Description:

Measurement of the occupied bandwidth of the transmitted signal.

Measurement:

Similar to conducted emissions, occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the LTE band 25 frequency band. 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
Video bandwidth:	100 kHz
Resolution bandwidth:	30 kHz
Span:	2 x nominal bandwidth
Trace-Mode:	Max Hold
Used equipment:	See chapter 8.4 setup A
Measurement uncertainty:	See chapter 9
Measurement procedure	FCC: § 2.1049

Limits:

FCC
§ 2.1049
Reporting only

Results:

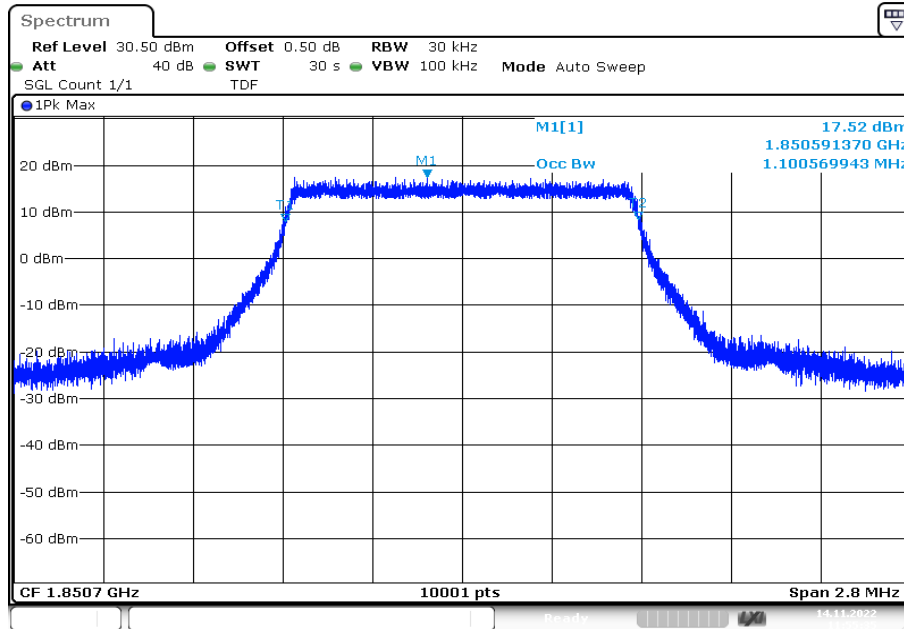
Occupied Bandwidth – QPSK			
Bandwidth	Channel	99% OBW (MHz)	-26 dBc BW (MHz)
1.4	low	1.10	1.37
	mid	1.10	1.39
	high	1.10	1.37
3.0	low	2.74	3.16
	mid	2.75	3.16
	high	2.74	3.15
5.0	low	4.53	5.25
	mid	4.53	5.22
	high	4.52	5.20
10.0	low	9.03	10.34
	mid	9.08	10.30
	high	9.08	10.31
15.0	low	13.49	15.10
	mid	13.49	15.07
	high	13.48	15.01
20.0	low	18.05	20.19
	mid	18.03	20.01
	high	18.04	20.73

Occupied Bandwidth – 16-QAM			
Bandwidth	Channel	99% OBW (MHz)	-26 dBc BW (MHz)
1.4	low	1.10	1.40
	mid	1.10	1.38
	high	1.11	1.41
3.0	low	2.74	3.19
	mid	2.74	3.17
	high	2.74	3.16
5.0	low	4.52	5.22
	mid	4.53	5.26
	high	4.52	5.21
10.0	low	9.08	10.33
	mid	9.08	10.28
	high	9.08	10.28
15.0	low	13.50	15.13
	mid	13.49	15.00
	high	13.48	15.14
20.0	low	18.04	20.14
	mid	18.03	20.03
	high	18.04	20.06

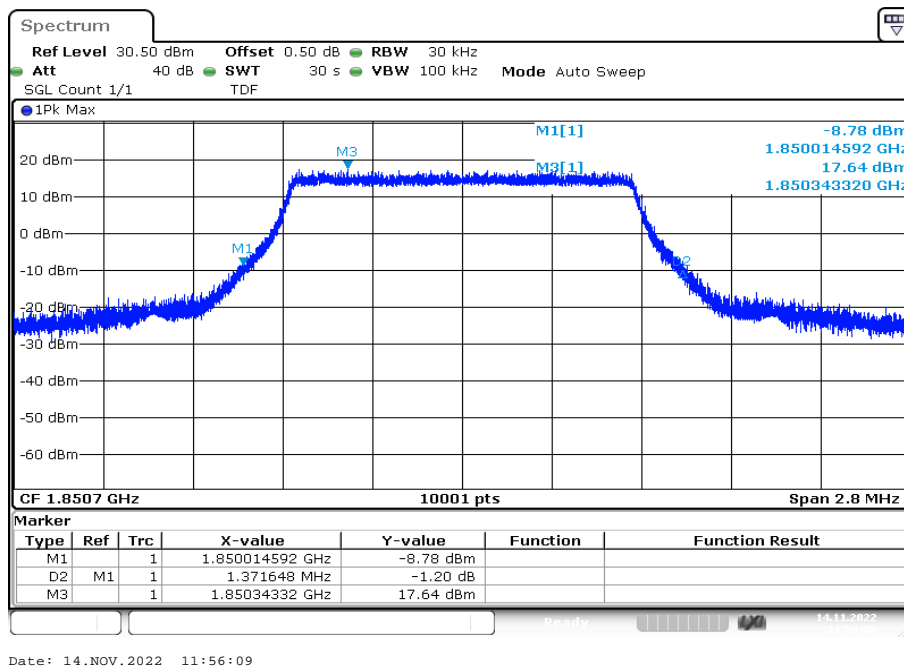
Occupied Bandwidth – 64-QAM			
Bandwidth	Channel	99% OBW (MHz)	-26 dBc BW (MHz)
1.4	low	1.10	1.38
	mid	1.11	1.38
	high	1.10	1.39
3.0	low	2.74	3.15
	mid	2.74	3.15
	high	2.74	3.13
5.0	low	4.52	5.21
	mid	4.52	5.19
	high	4.51	5.18
10.0	low	9.07	10.34
	mid	9.08	10.35
	high	9.06	10.23
15.0	low	13.50	15.00
	mid	13.48	15.08
	high	13.48	14.97
20.0	low	18.07	20.13
	mid	18.03	20.13
	high	18.01	20.06

Plots:

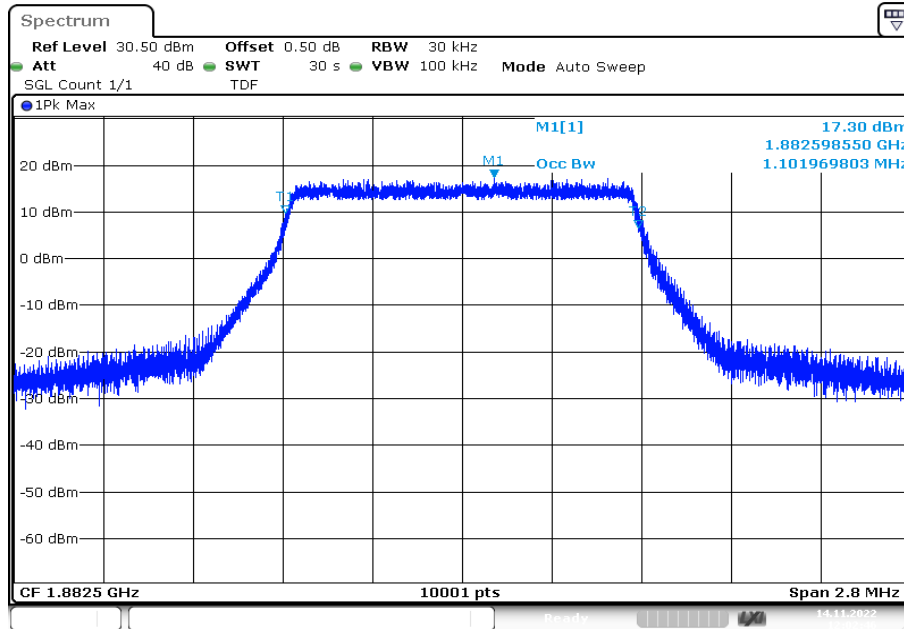
Plot 1: 1.4 MHz – QPSK - lowest channel (99% - OBW)



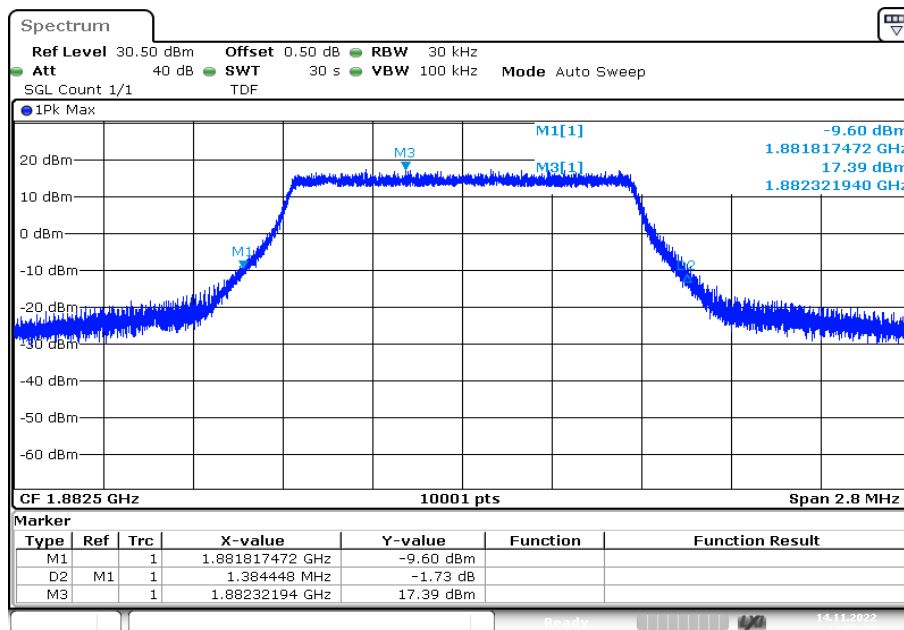
Plot 2: 1.4 MHz – QPSK - lowest channel (-26 dBc BW)



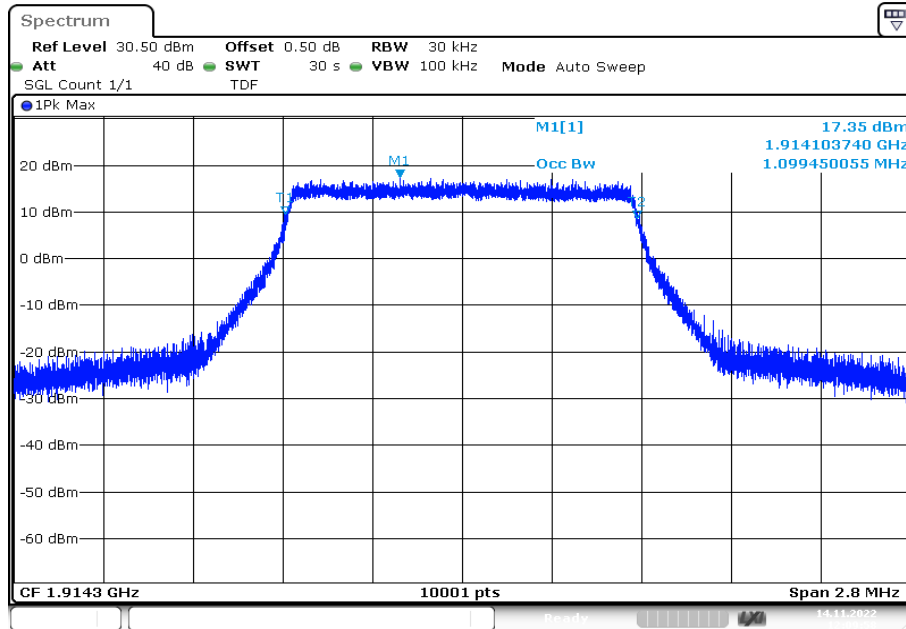
Plot 3: 1.4 MHz – QPSK – middle channel (99% - OBW)



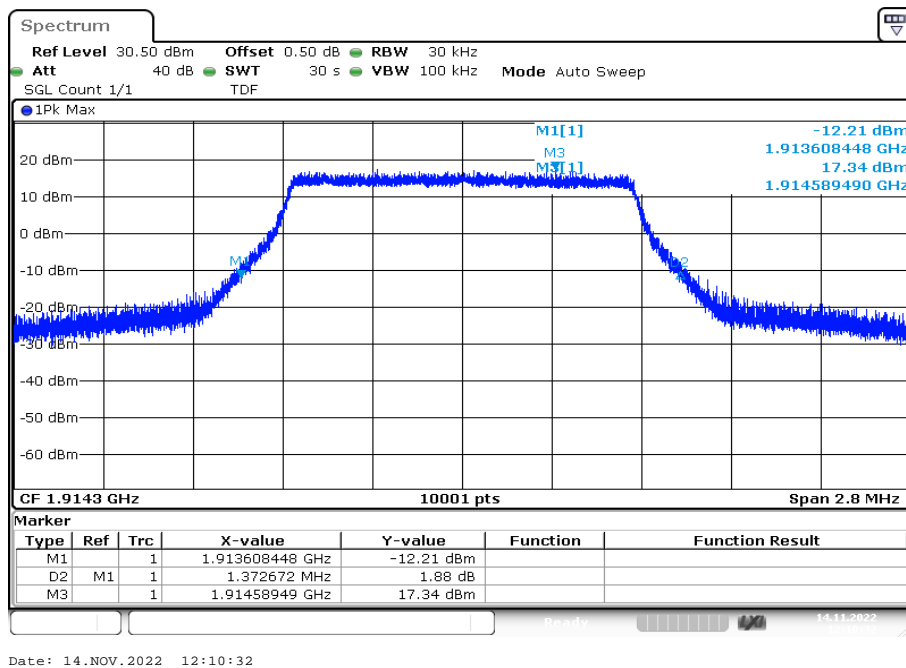
Plot 4: 1.4 MHz – QPSK – middle channel (-26 dBc BW)



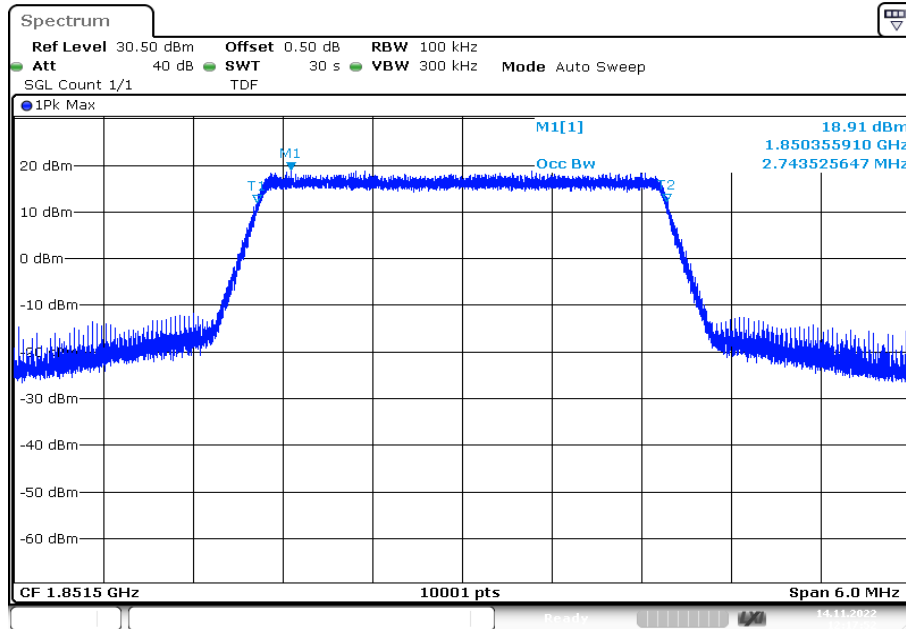
Plot 5: 1.4 MHz – QPSK - highest channel (99% - OBW)



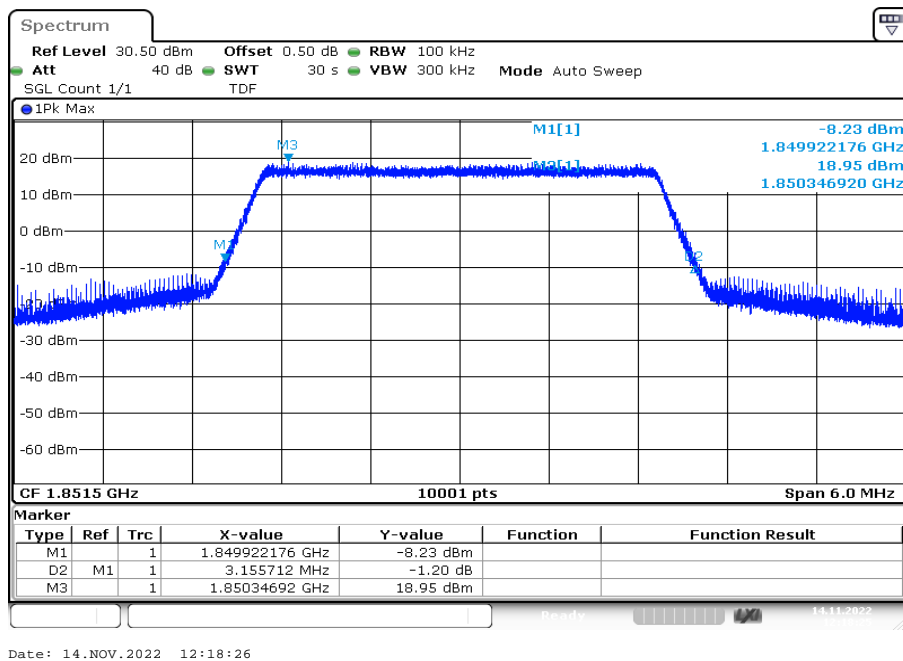
Plot 6: 1.4 MHz – QPSK - highest channel (-26 dBc BW)



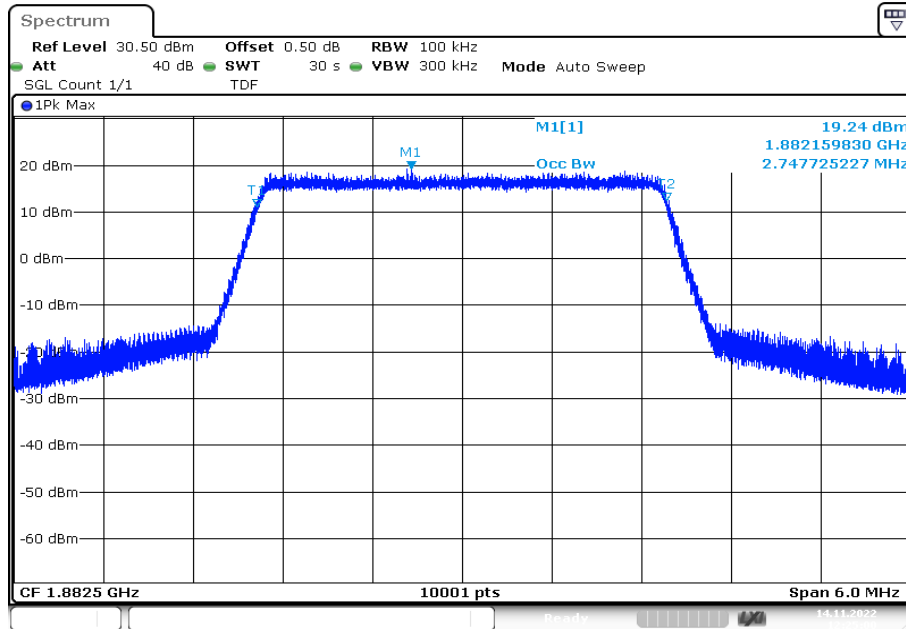
Plot 7: 3 MHz – QPSK - lowest channel (99% - OBW)



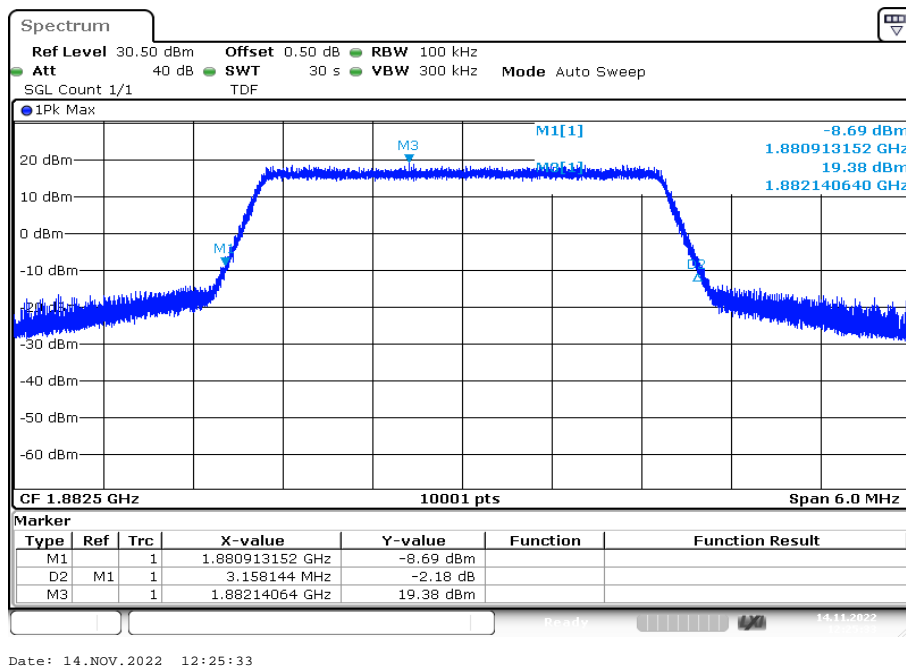
Plot 8: 3 MHz – QPSK - lowest channel (-26 dBc BW)



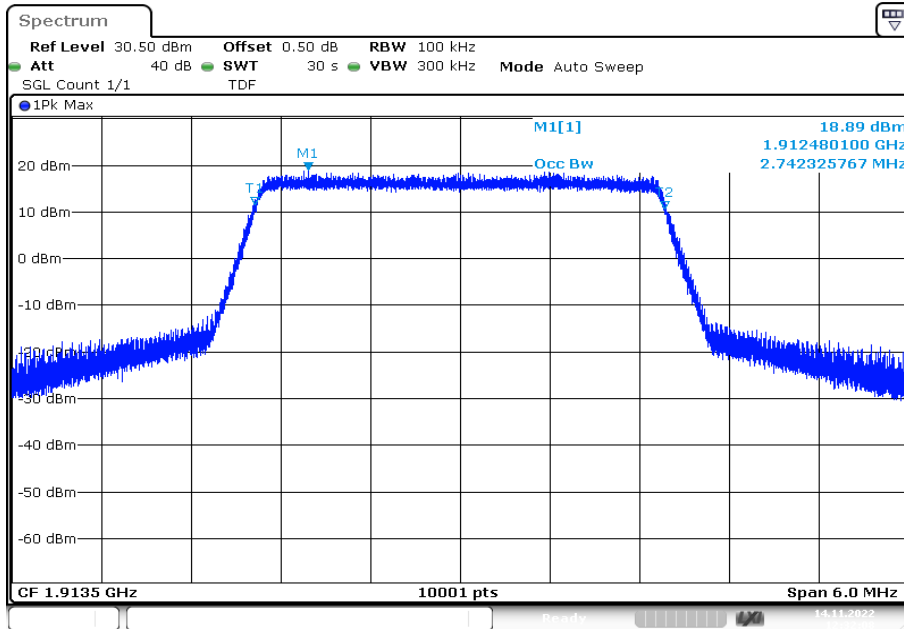
Plot 9: 3 MHz – QPSK - middle channel (99% - OBW)



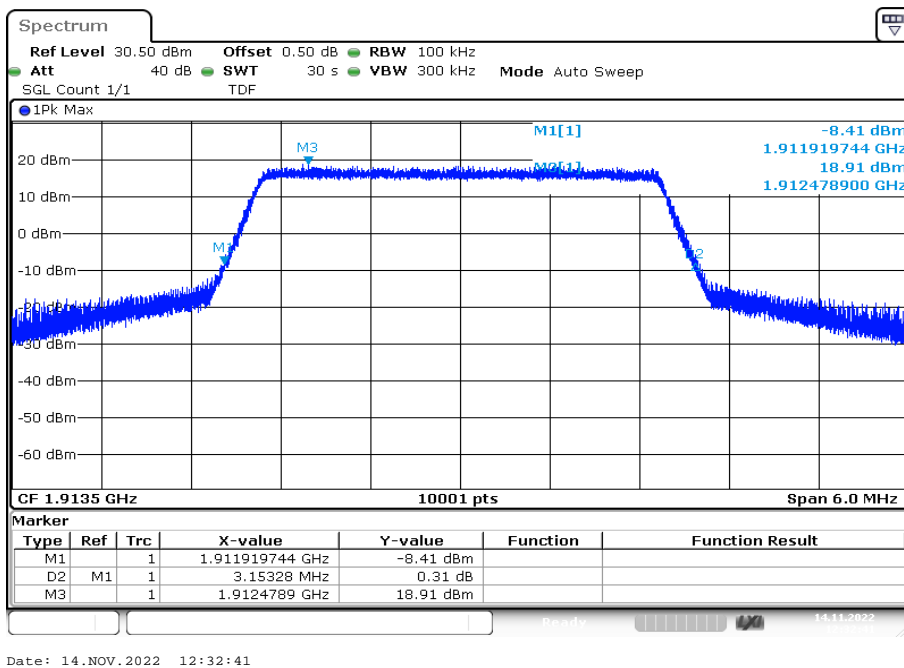
Plot 10: 3 MHz – QPSK - middle channel (-26 dBc BW)



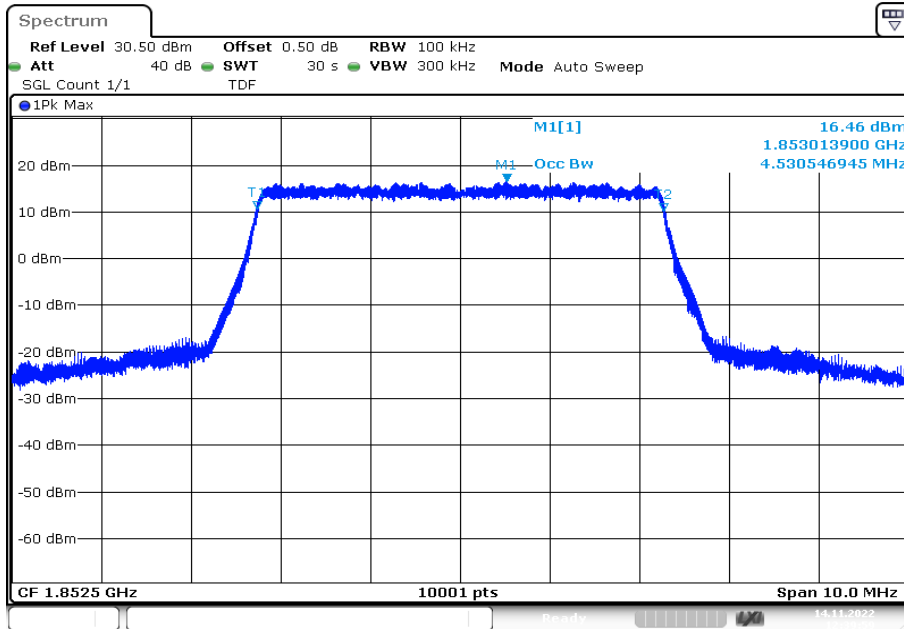
Plot 11: 3 MHz – QPSK - highest channel (99% - OBW)



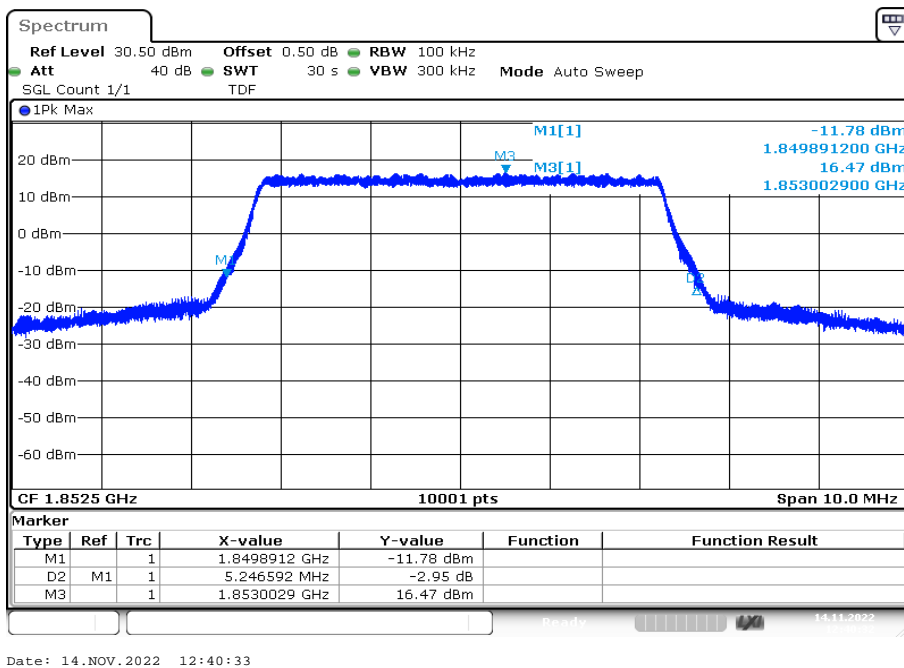
Plot 12: 3 MHz – QPSK - highest channel (-26 dBc BW)



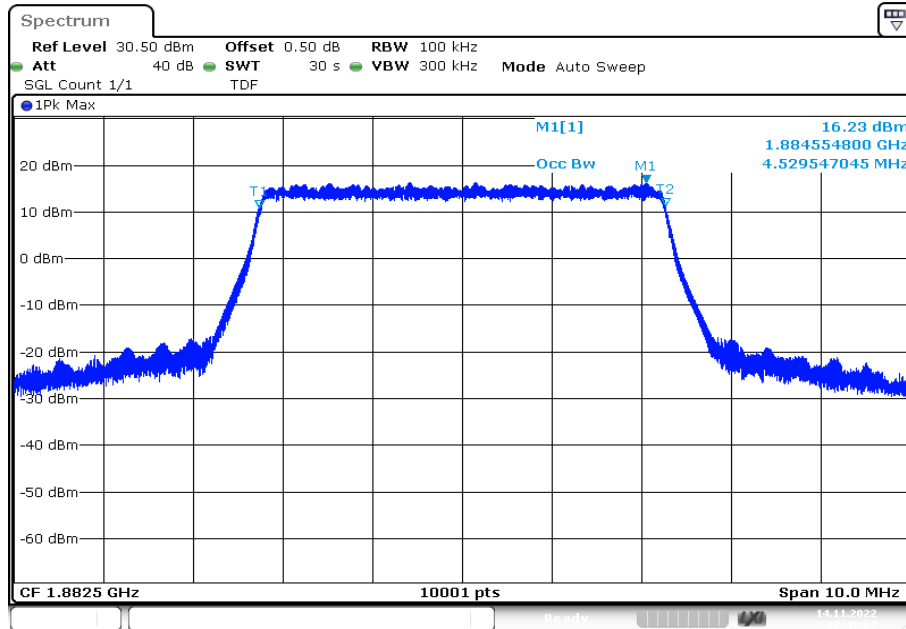
Plot 13: 5 MHz – QPSK - lowest channel (99% - OBW)



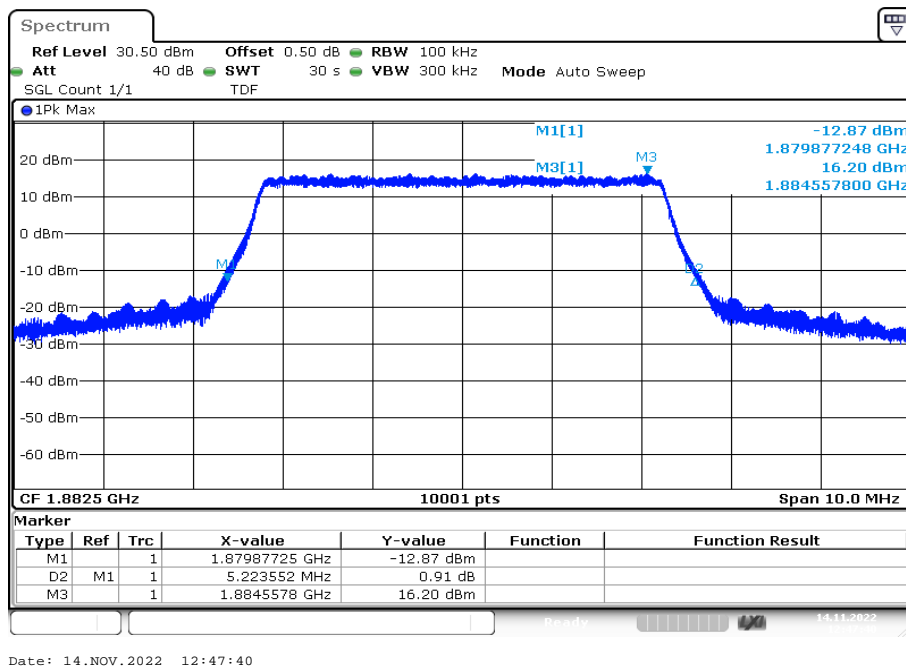
Plot 14: 5 MHz – QPSK - lowest channel (-26 dBc BW)



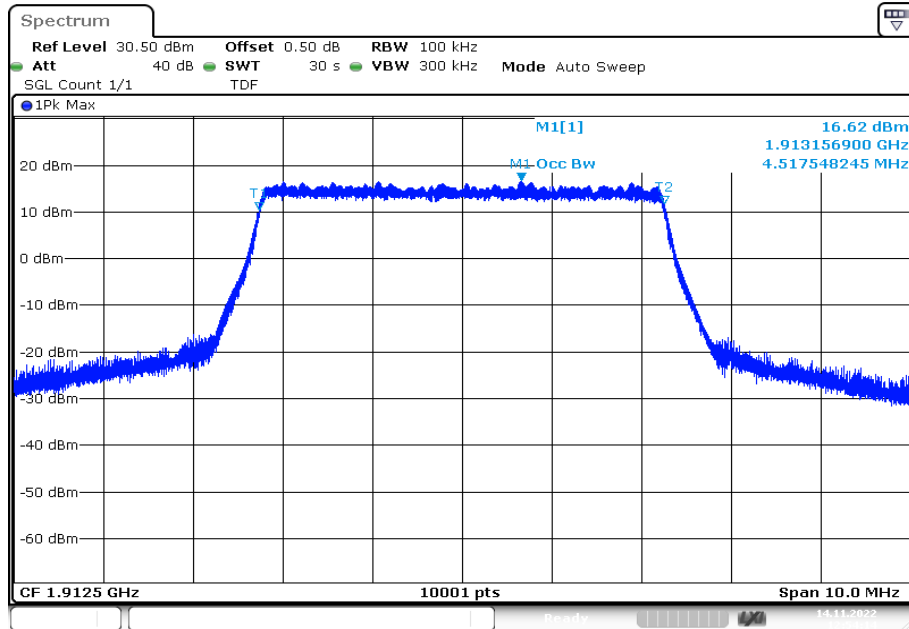
Plot 15: 5 MHz – QPSK - middle channel (99% - OBW)



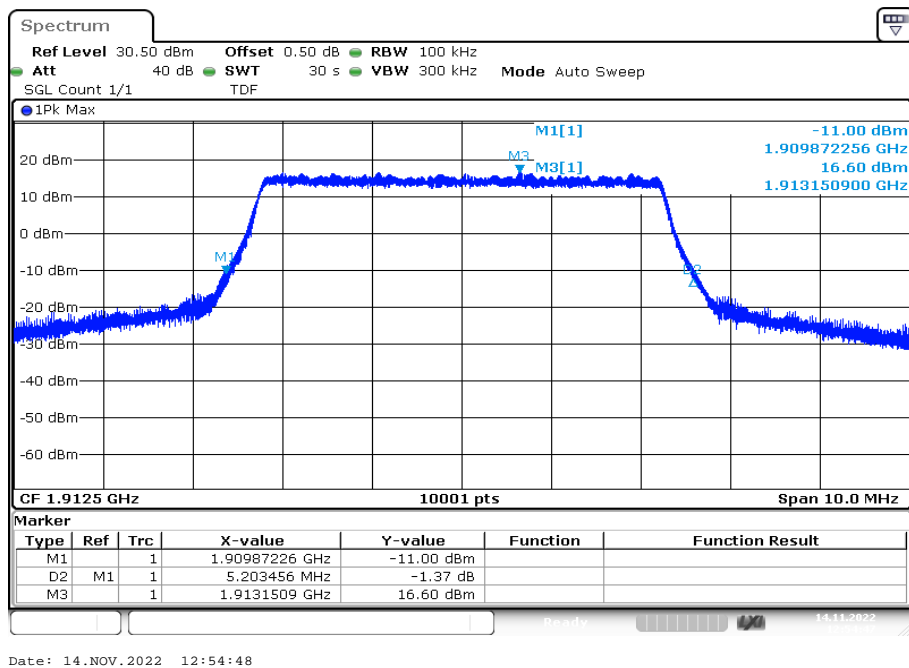
Plot 16: 5 MHz – QPSK - middle channel (-26 dBc BW)



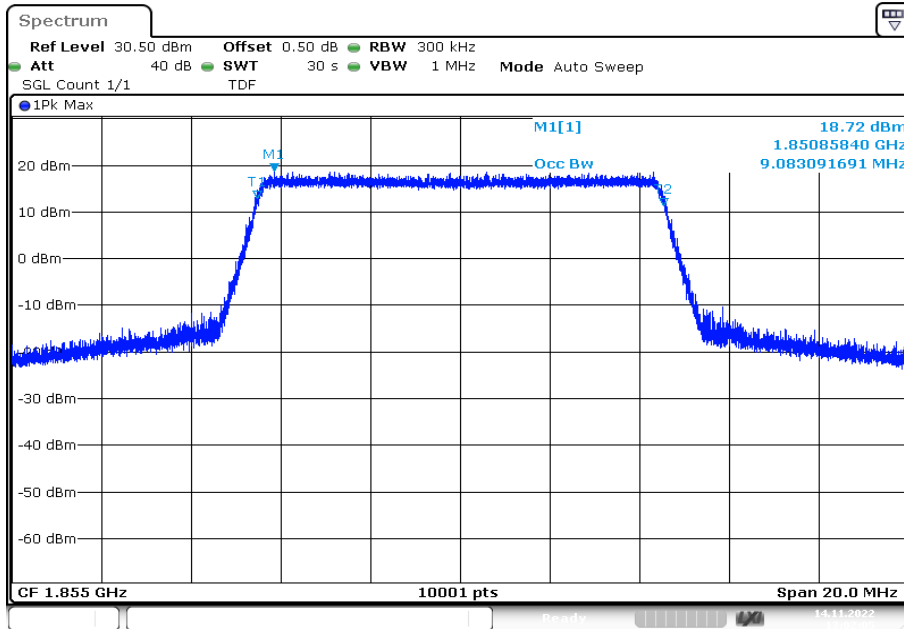
Plot 17: 5 MHz – QPSK - highest channel (99% - OBW)



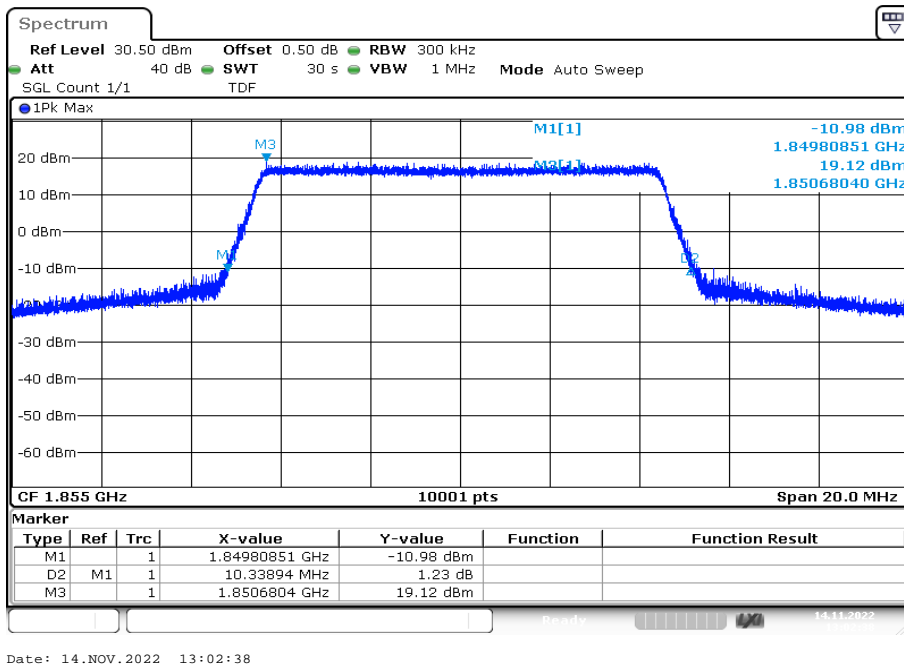
Plot 18: 5 MHz – QPSK - highest channel (-26 dBc BW)



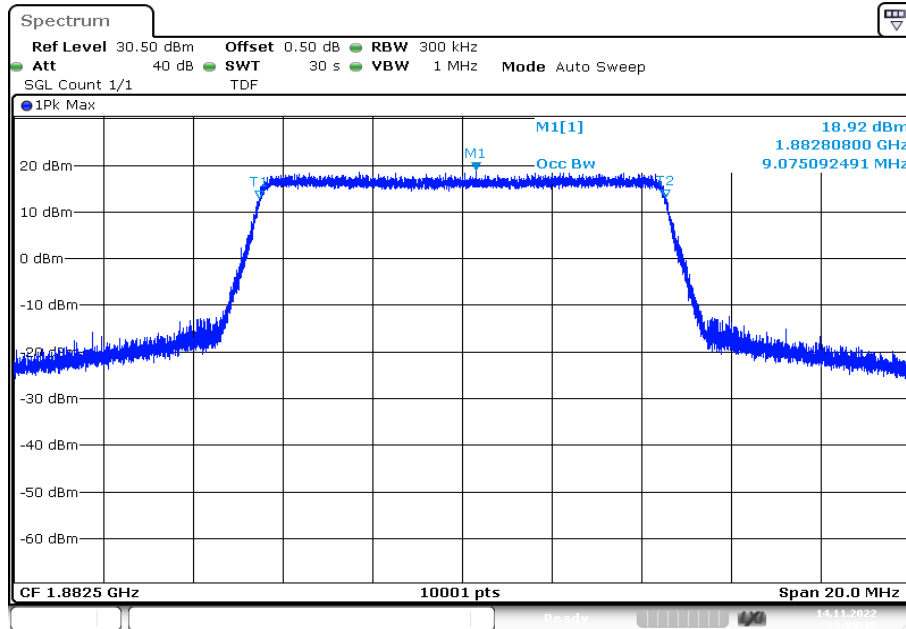
Plot 19: 10 MHz – QPSK - lowest channel (99% - OBW)



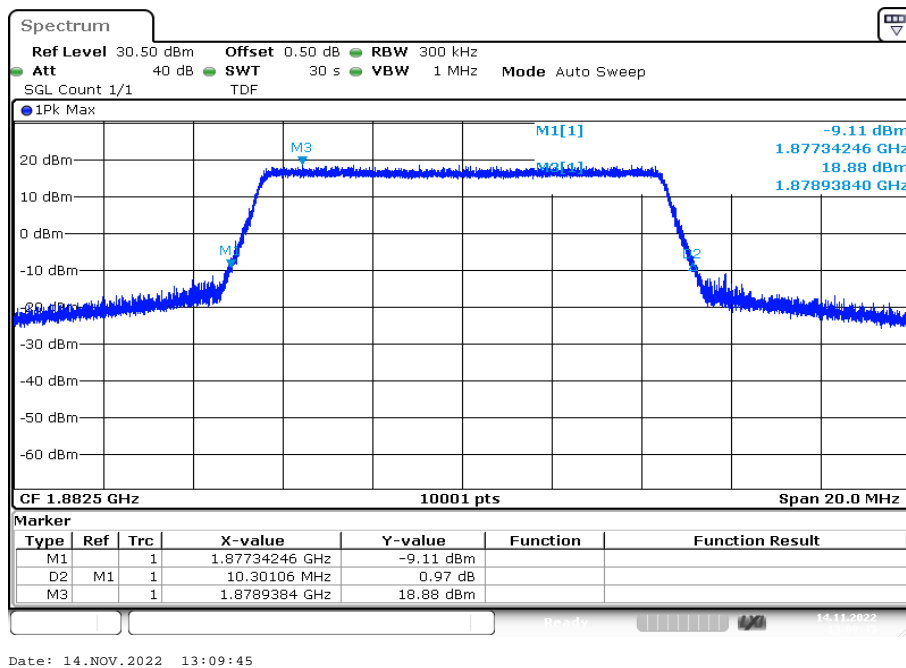
Plot 20: 10 MHz – QPSK - lowest channel (-26 dBc BW)



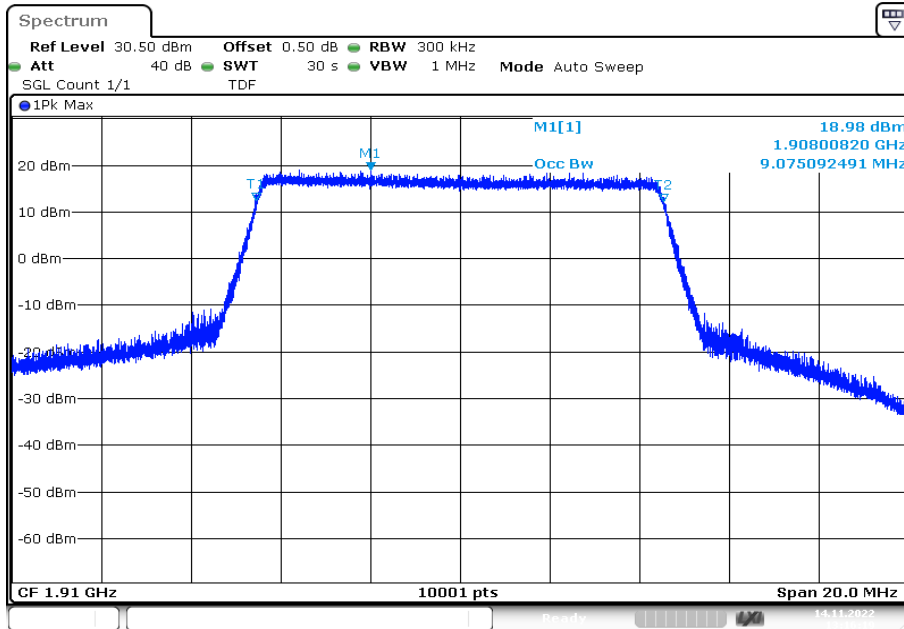
Plot 21: 10 MHz – QPSK - middle channel (99% - OBW)



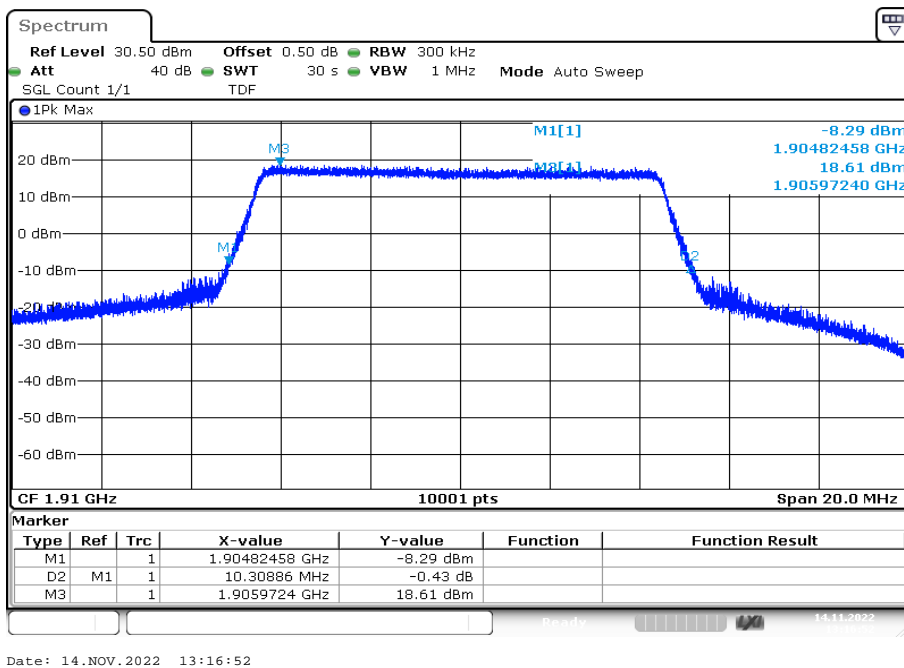
Plot 22: 10 MHz – QPSK - middle channel (-26 dBc BW)



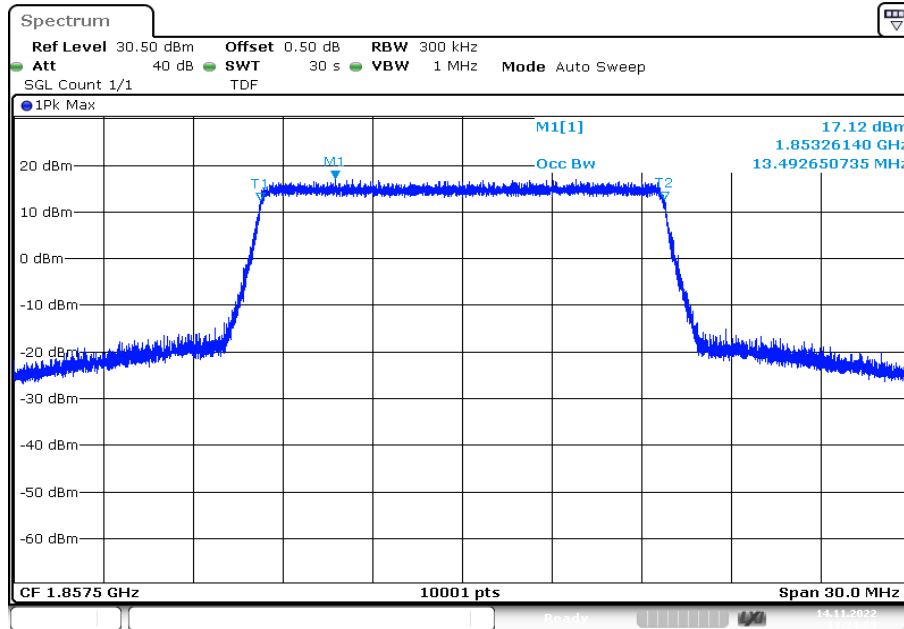
Plot 23: 10 MHz – QPSK - highest channel (99% - OBW)



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

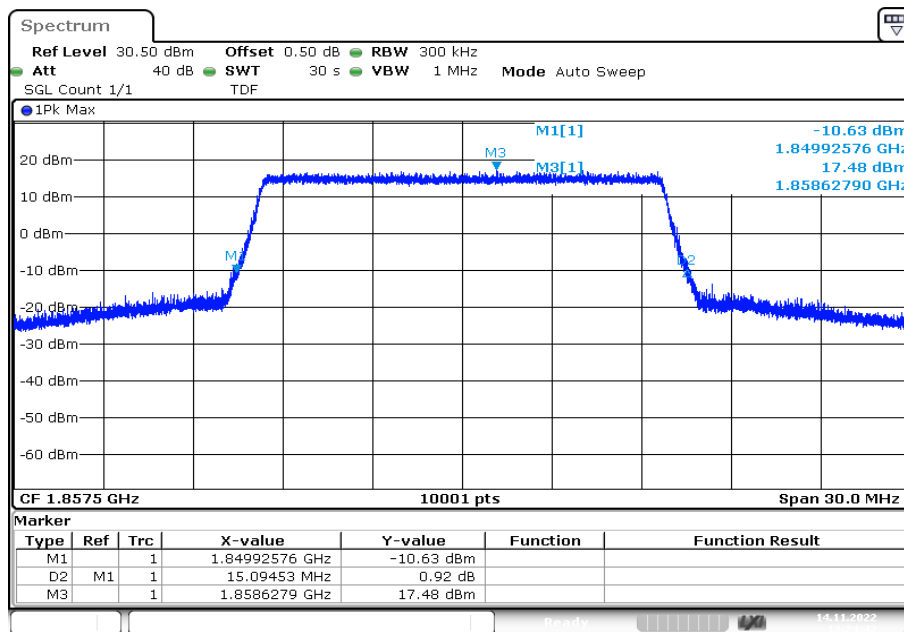


Plot 25: 15 MHz – QPSK - lowest channel (99% - OBW)



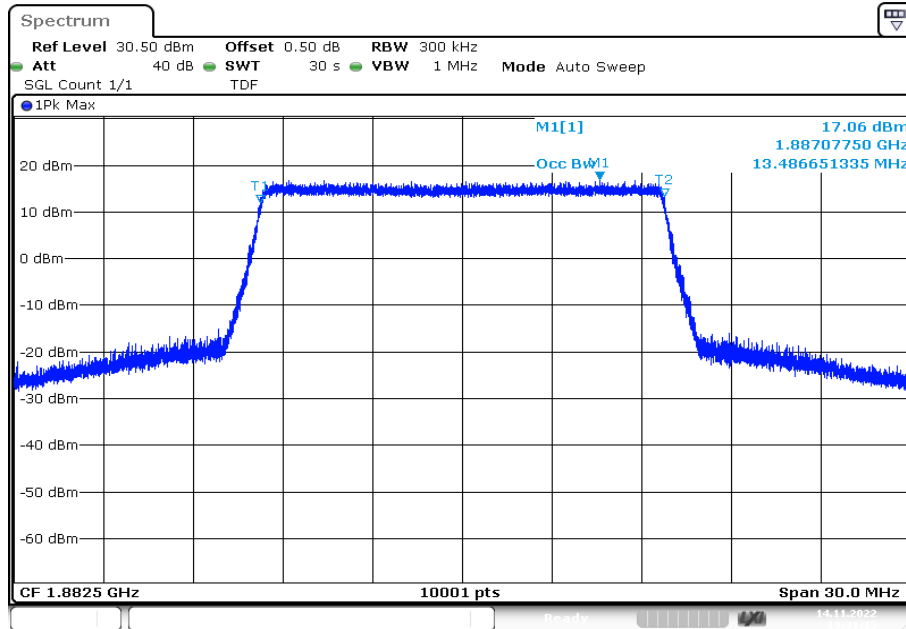
Date: 14.NOV.2022 13:24:09

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

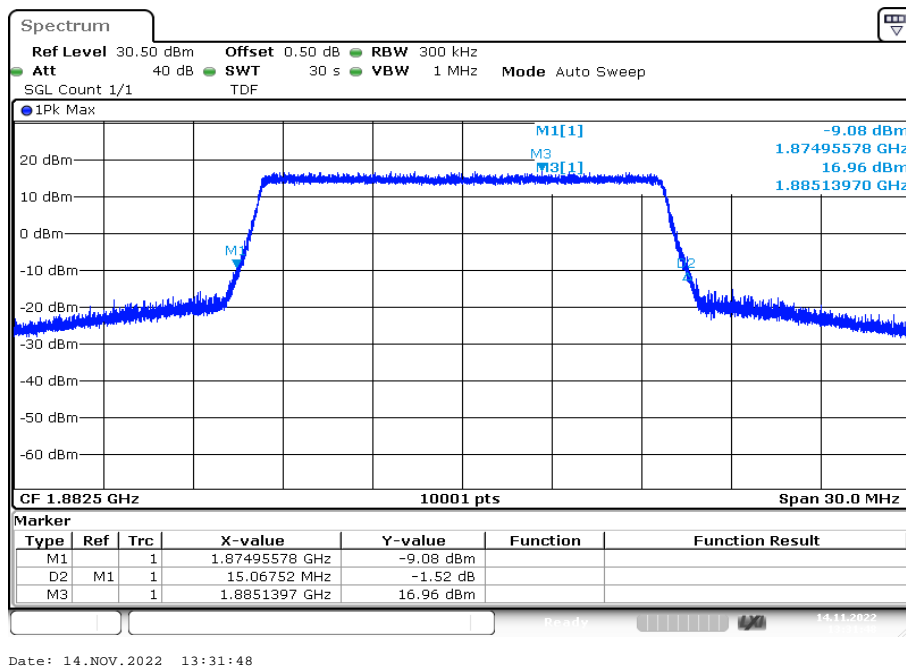


Date: 14.NOV.2022 13:24:42

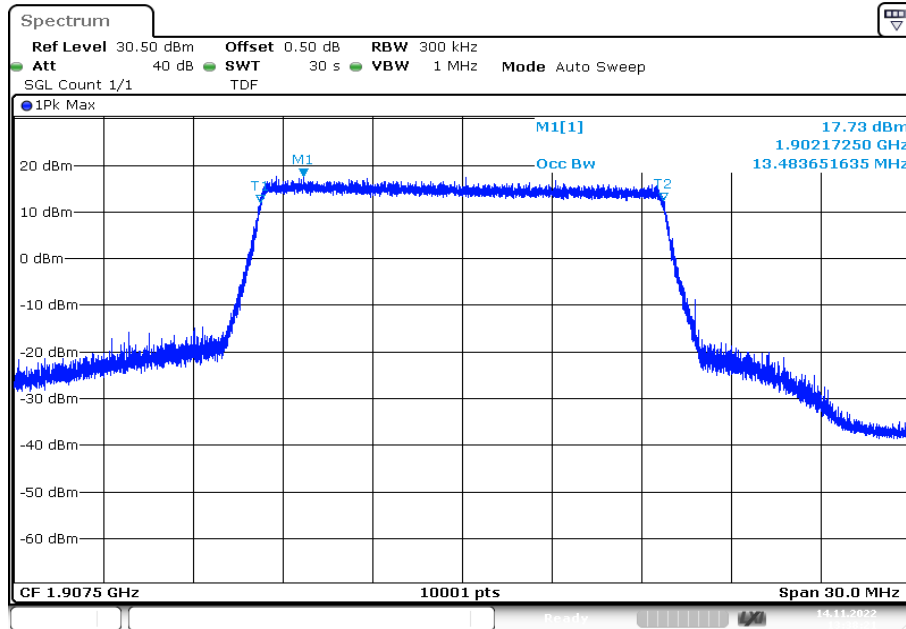
Plot 27: 15 MHz – QPSK - middle channel (99% - OBW)



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

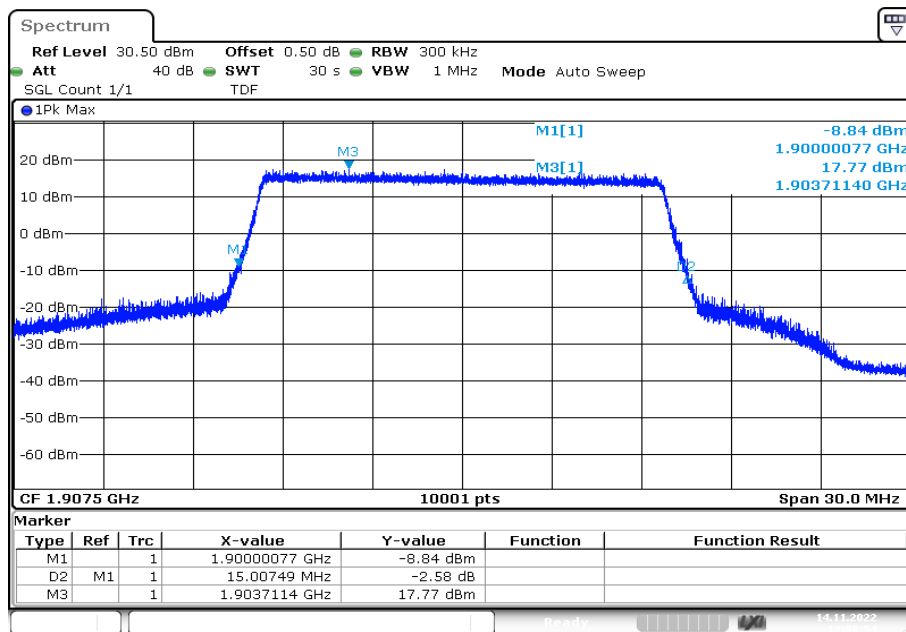


Plot 29: 15 MHz – QPSK - highest channel (99% - OBW)



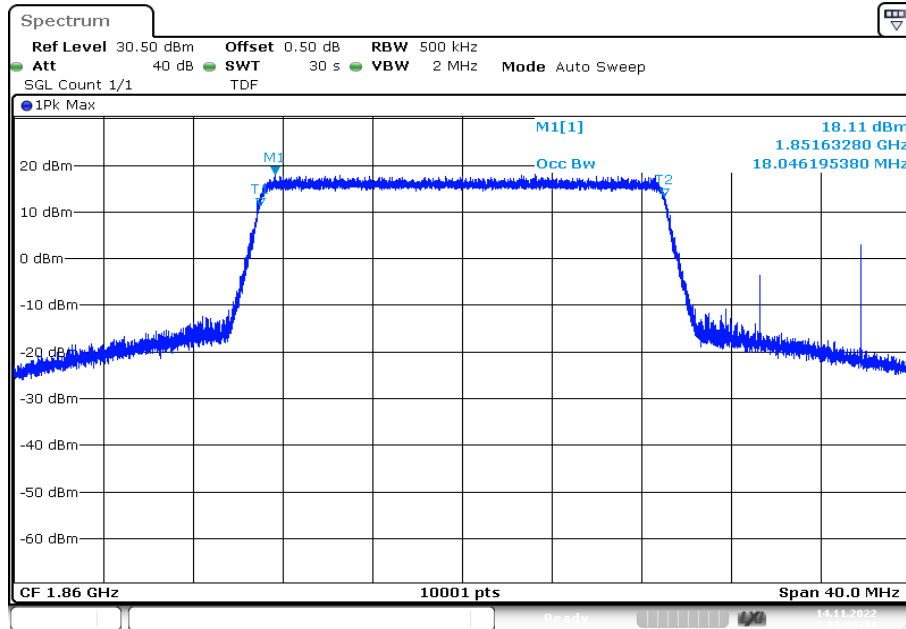
Date: 14.NOV.2022 13:38:22

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

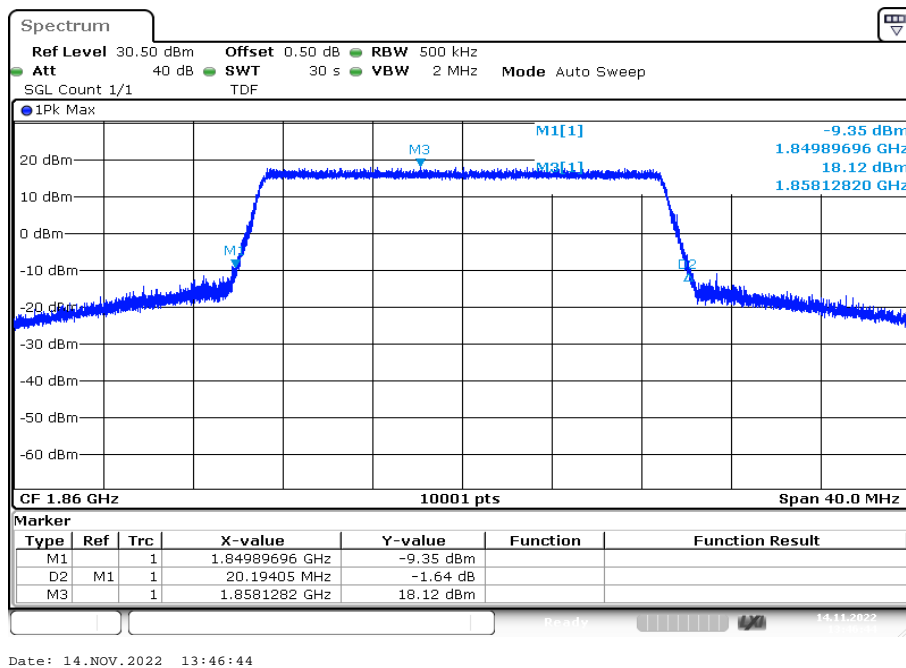


Date: 14.NOV.2022 13:38:55

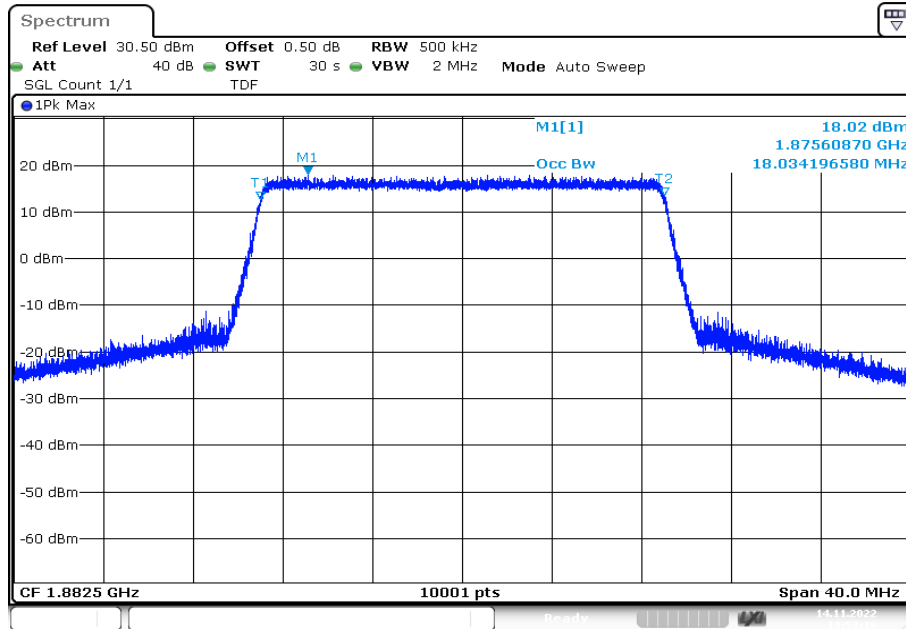
Plot 31: 20 MHz – QPSK - lowest channel (99% - OBW)



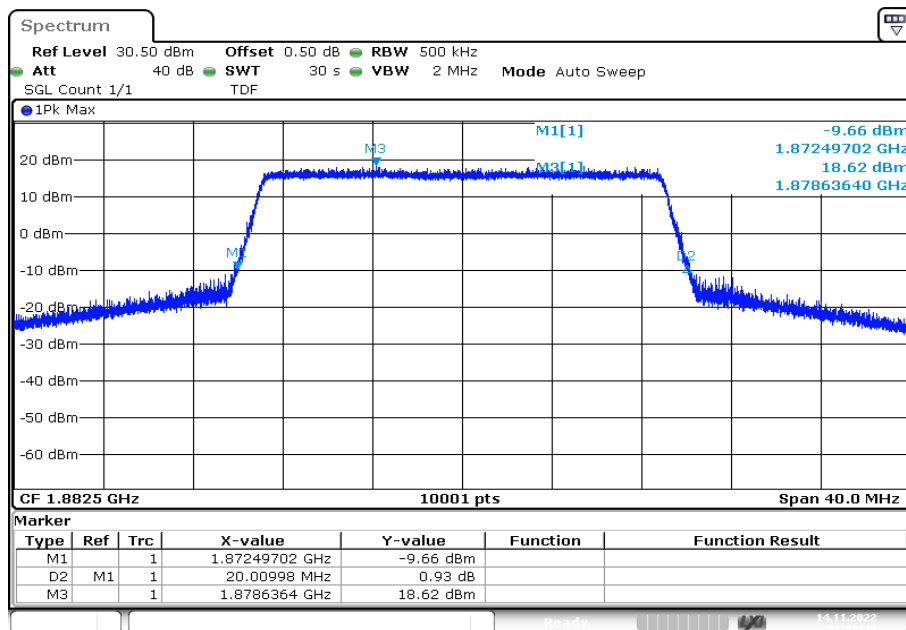
Plot 32: 20 MHz – QPSK - lowest channel (-26 dBc BW)



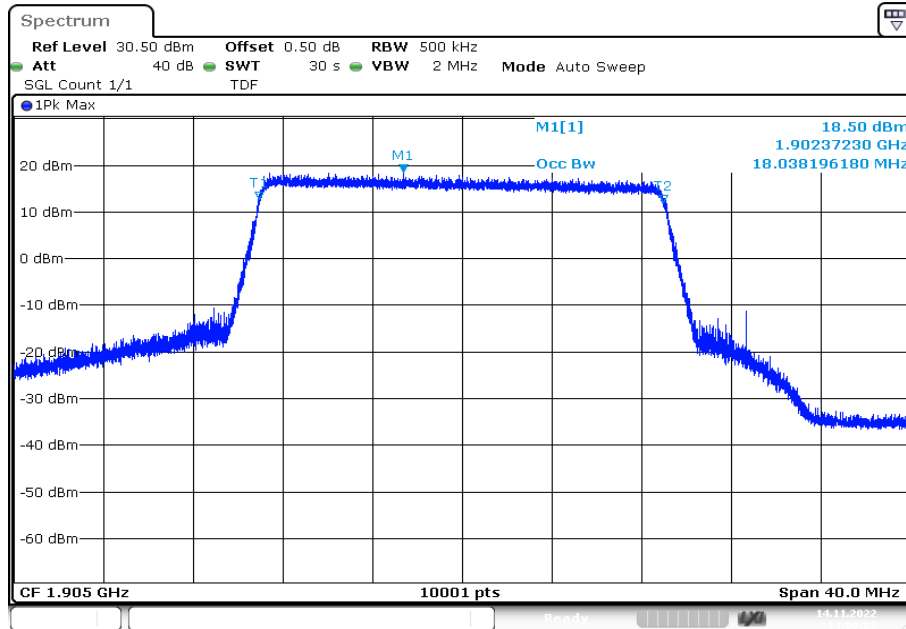
Plot 33: 20 MHz – QPSK - middle channel (99% - OBW)



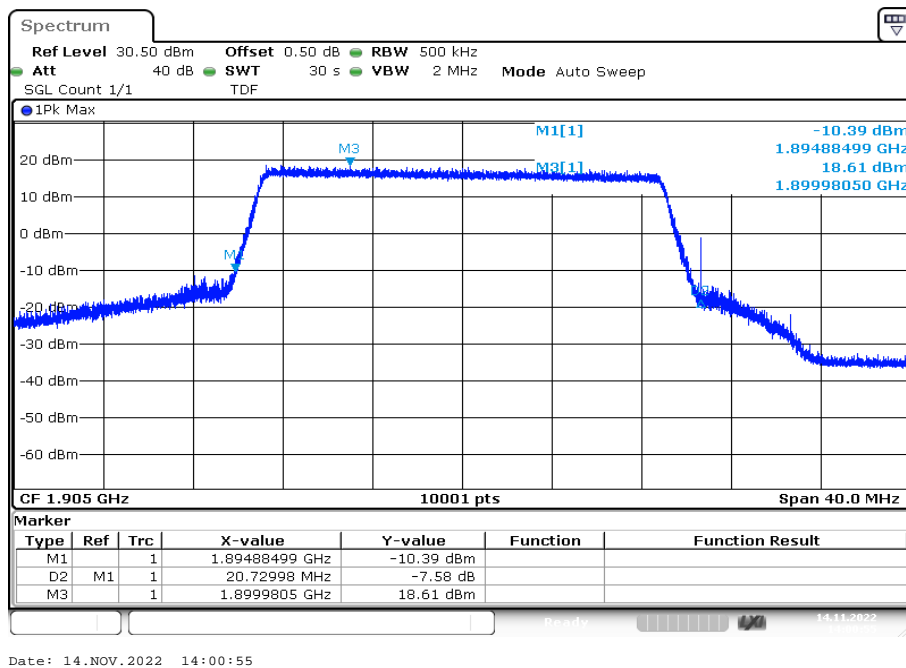
Plot 34: 20 MHz – QPSK - middle channel (-26 dBc BW)



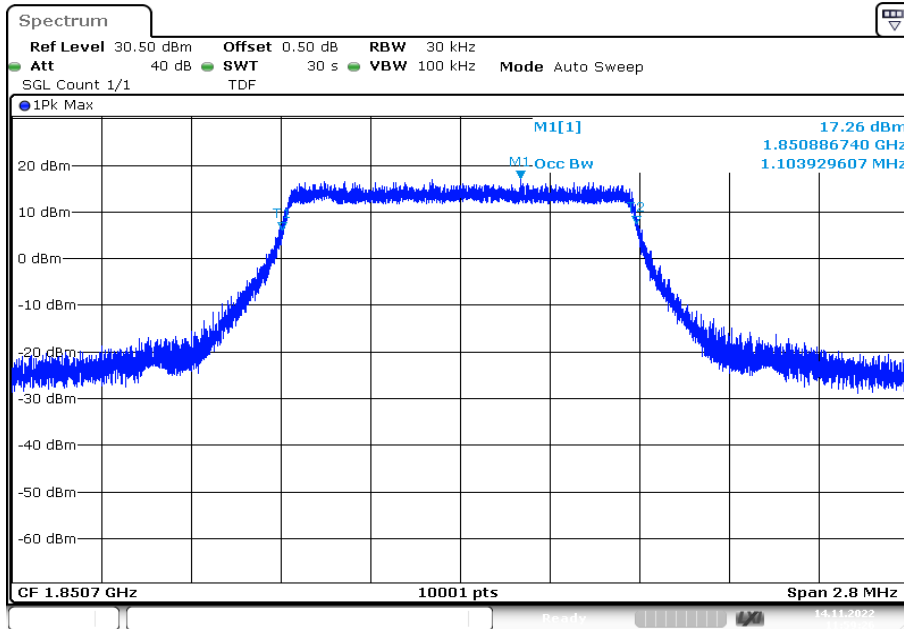
Plot 35: 20 MHz – QPSK - highest channel (99% - OBW)



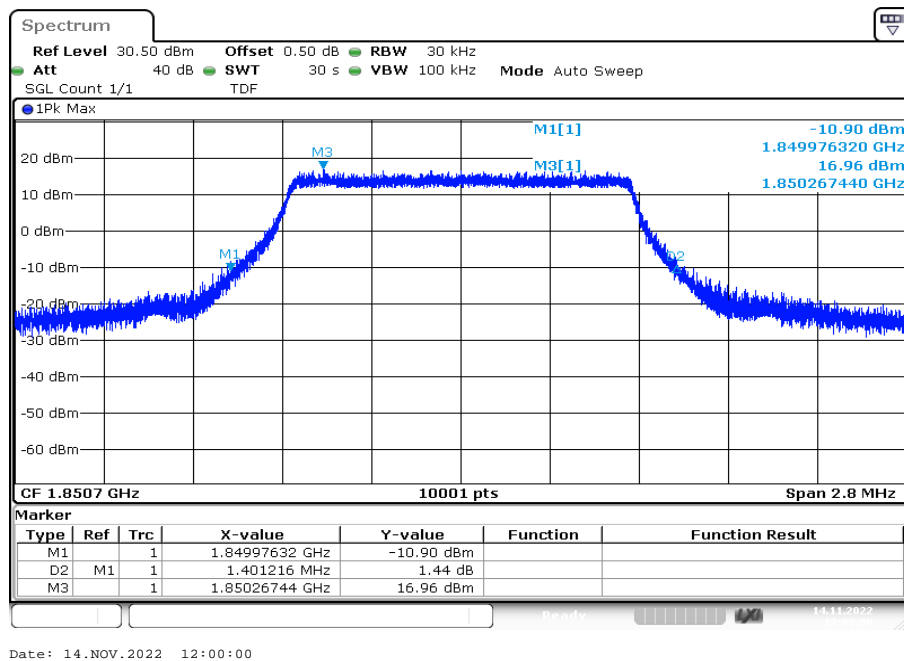
Plot 36: 20 MHz – QPSK - highest channel (-26 dBc BW)



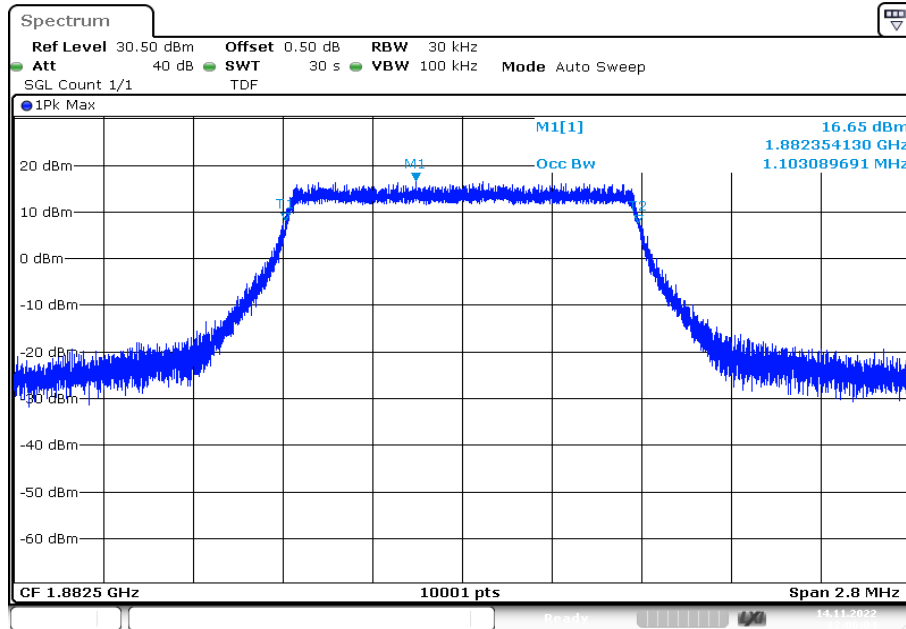
Plot 37: 1.4 MHz – 16-QAM - lowest channel (99% - OBW)



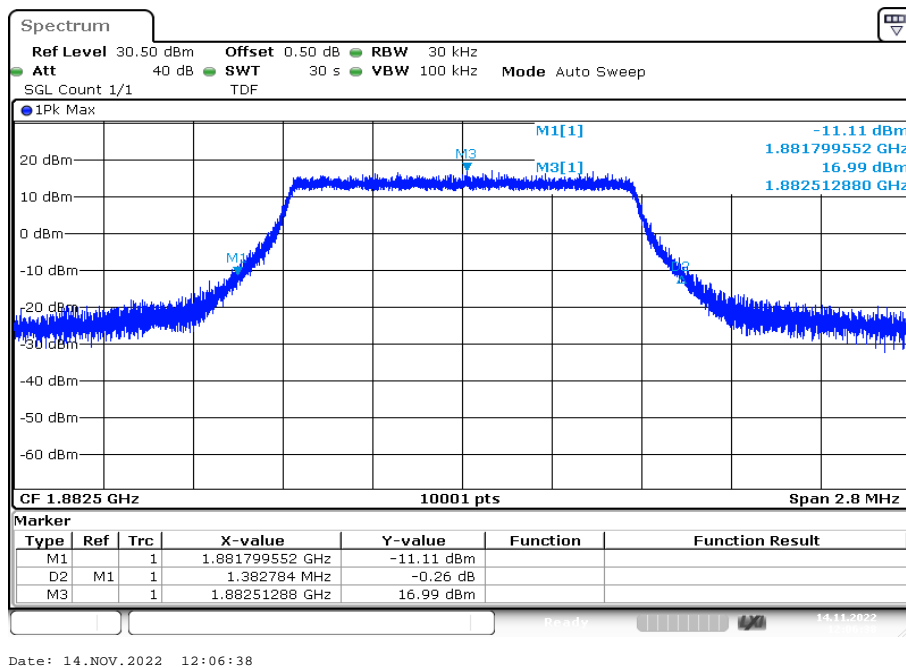
Plot 38: 1.4 MHz – 16-QAM - lowest channel (-26 dBc BW)



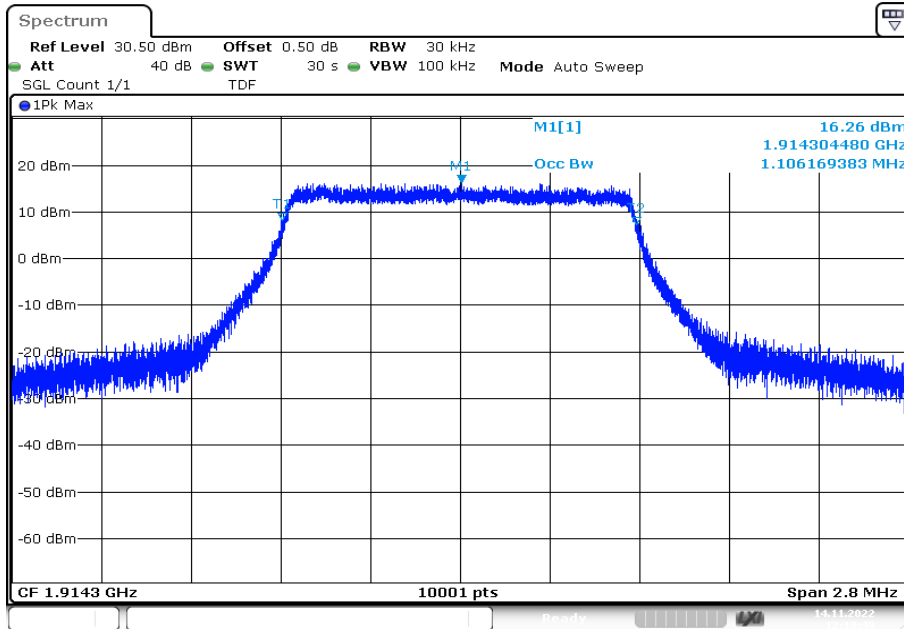
Plot 39: 1.4 MHz – 16-QAM - middle channel (99% - OBW)



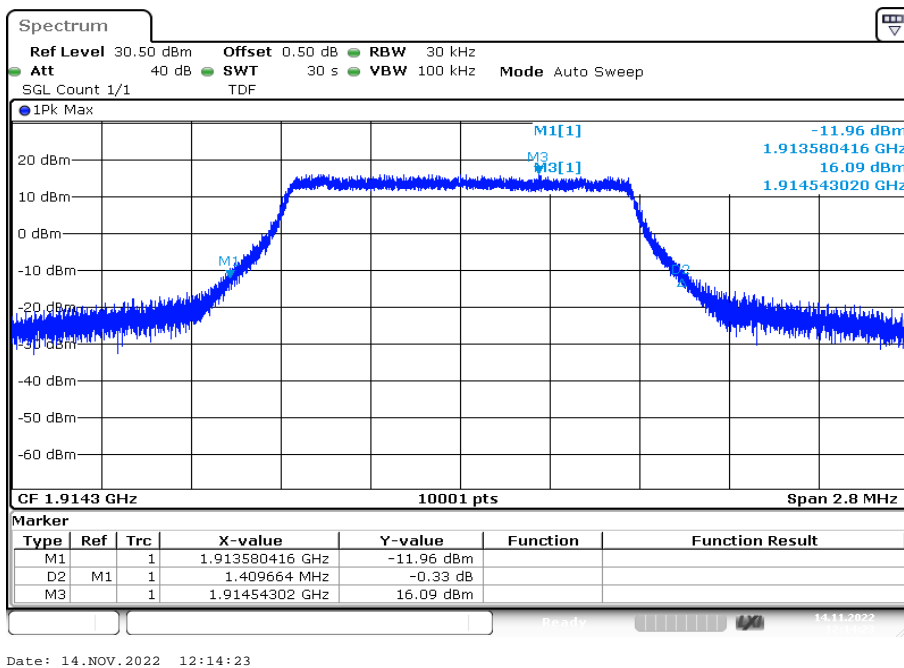
Plot 40: 1.4 MHz – 16-QAM - middle channel (-26 dBc BW)



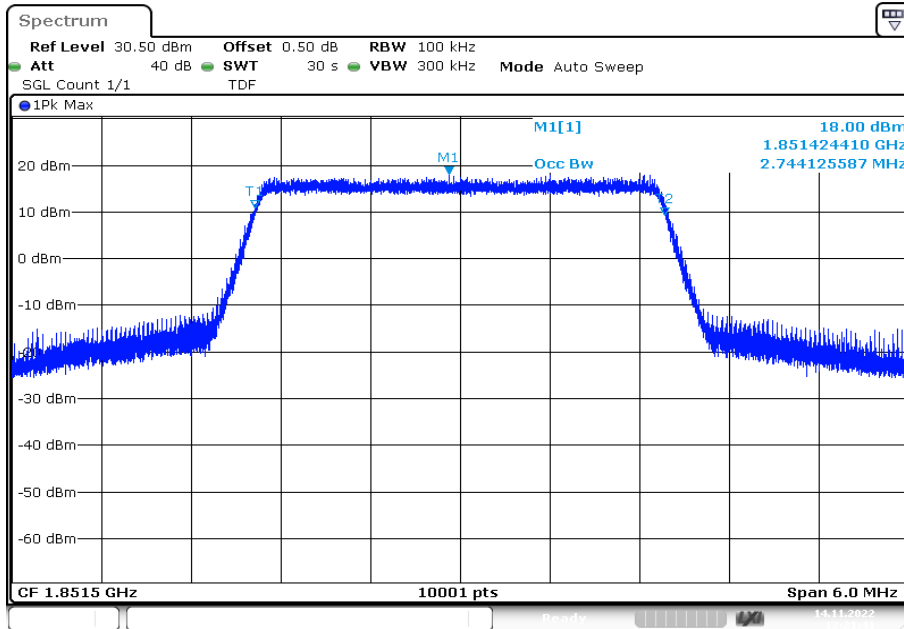
Plot 41: 1.4 MHz – 16-QAM - highest channel (99% - OBW)



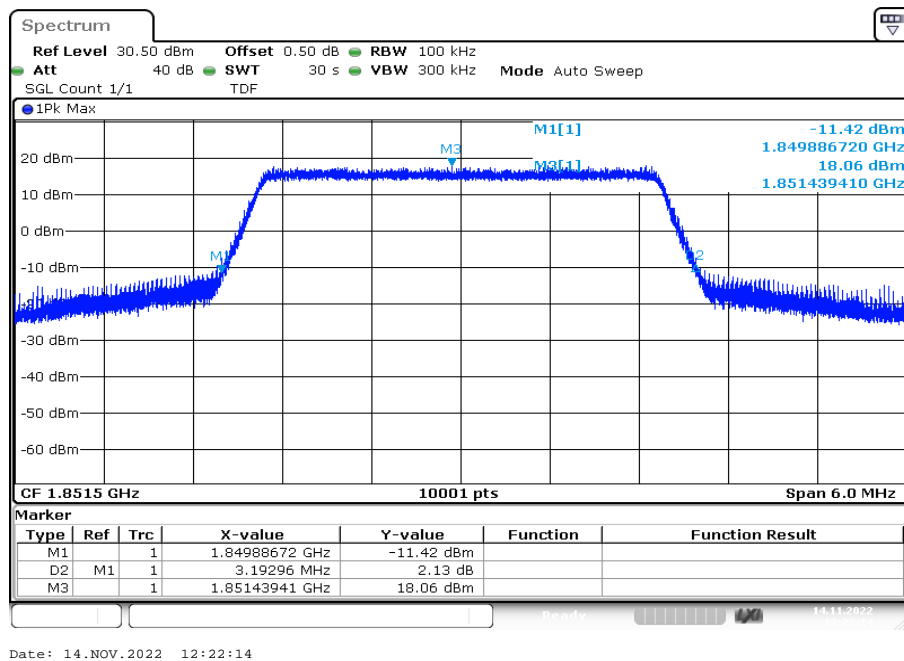
Plot 42: 1.4 MHz – 16-QAM - highest channel (-26 dBc BW)



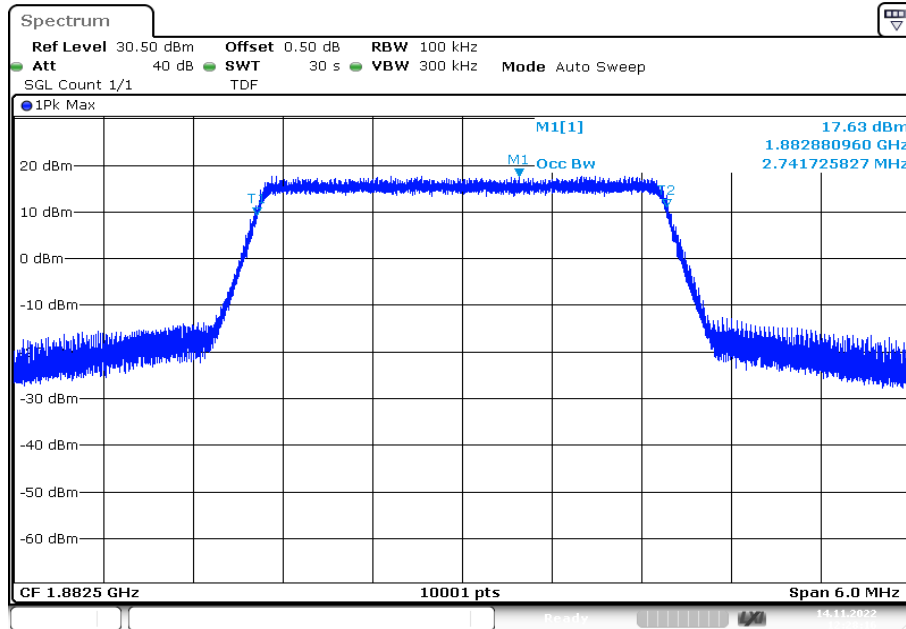
Plot 43: 3 MHz – 16-QAM - lowest channel (99% - OBW)



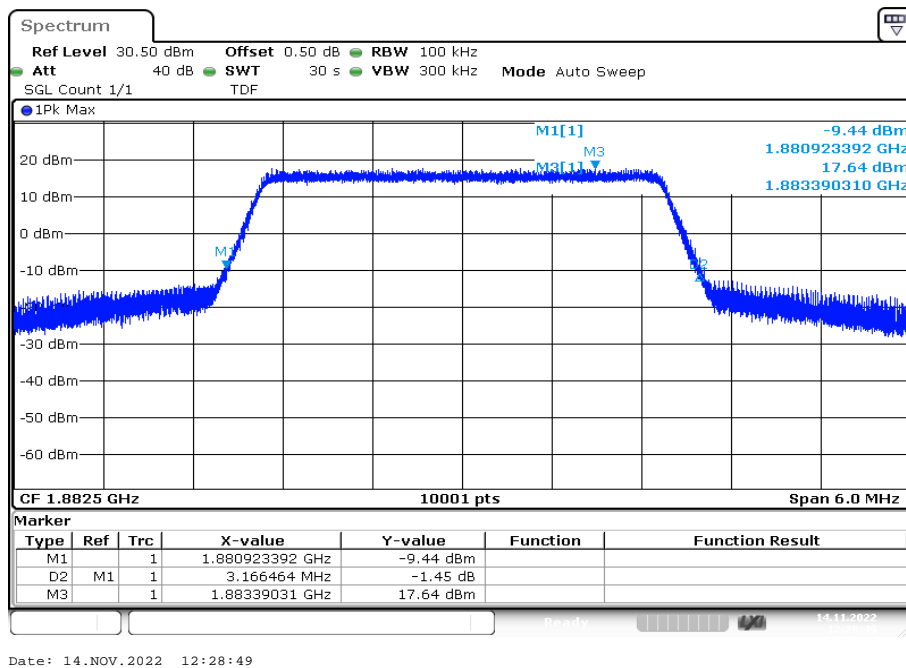
Plot 44: 3 MHz – 16-QAM - lowest channel (-26 dBc BW)



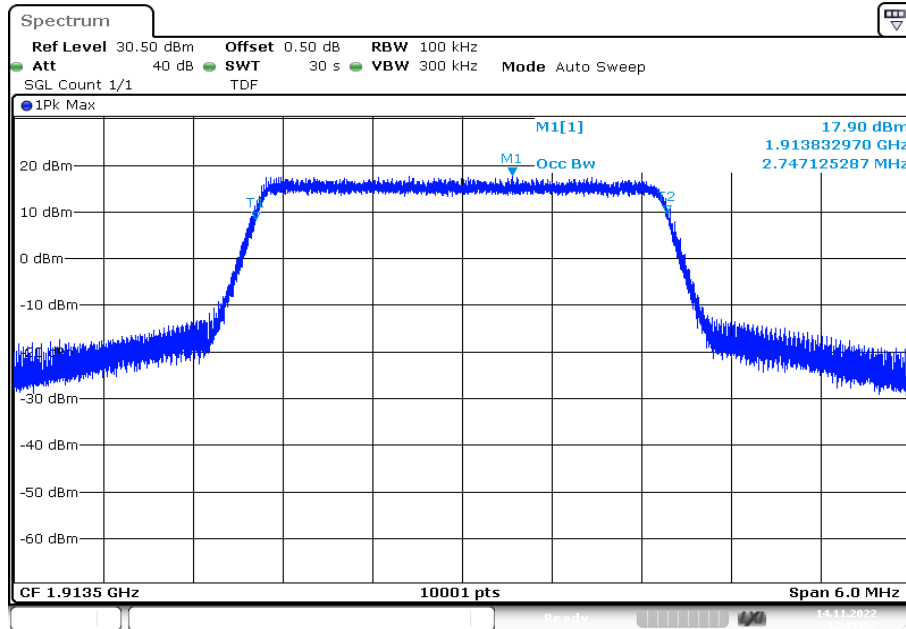
Plot 45: 3 MHz – 16-QAM - middle channel (99% - OBW)



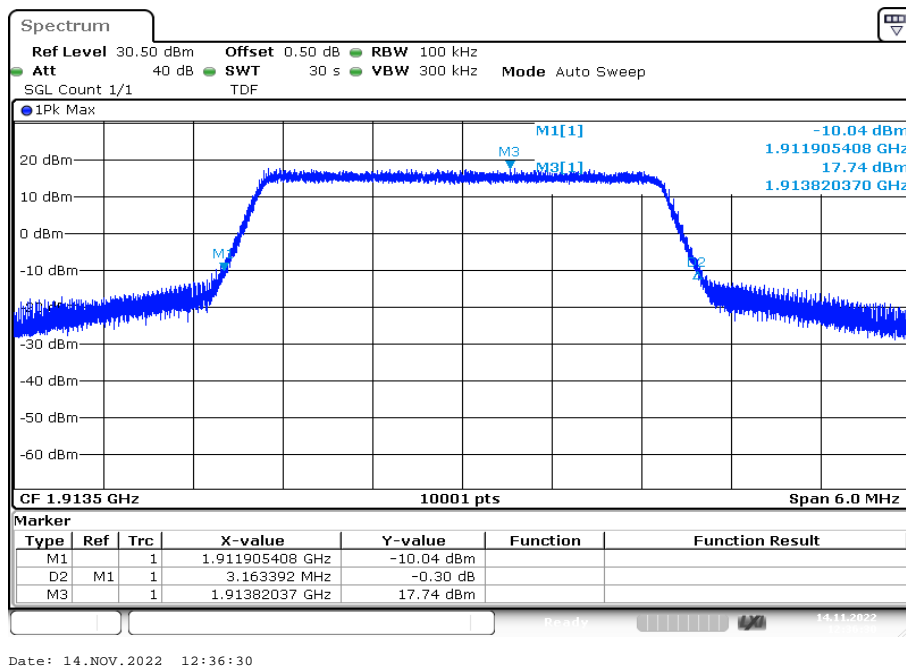
Plot 46: 3 MHz – 16-QAM - middle channel (-26 dBc BW)



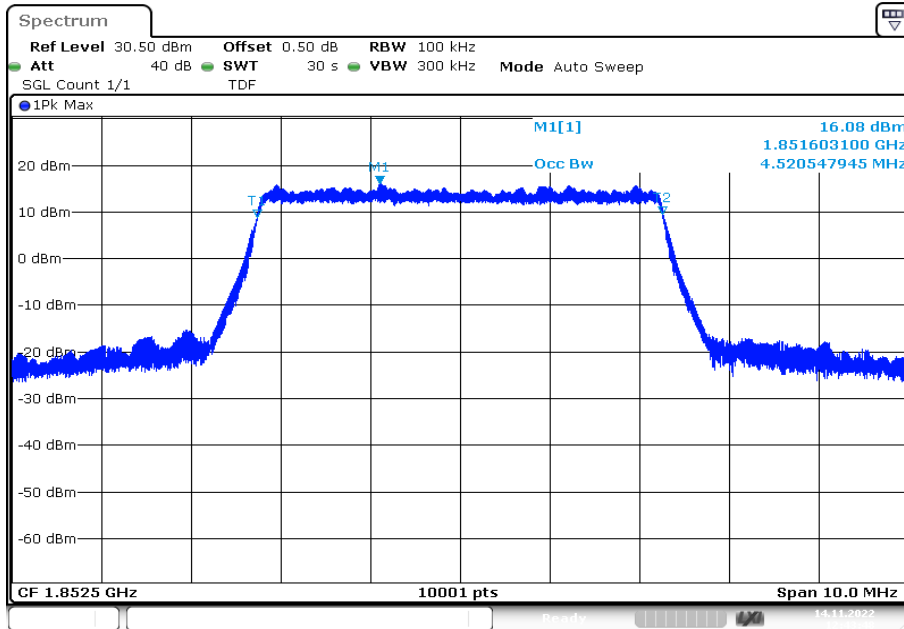
Plot 47: 3 MHz – 16-QAM - highest channel (99% - OBW)



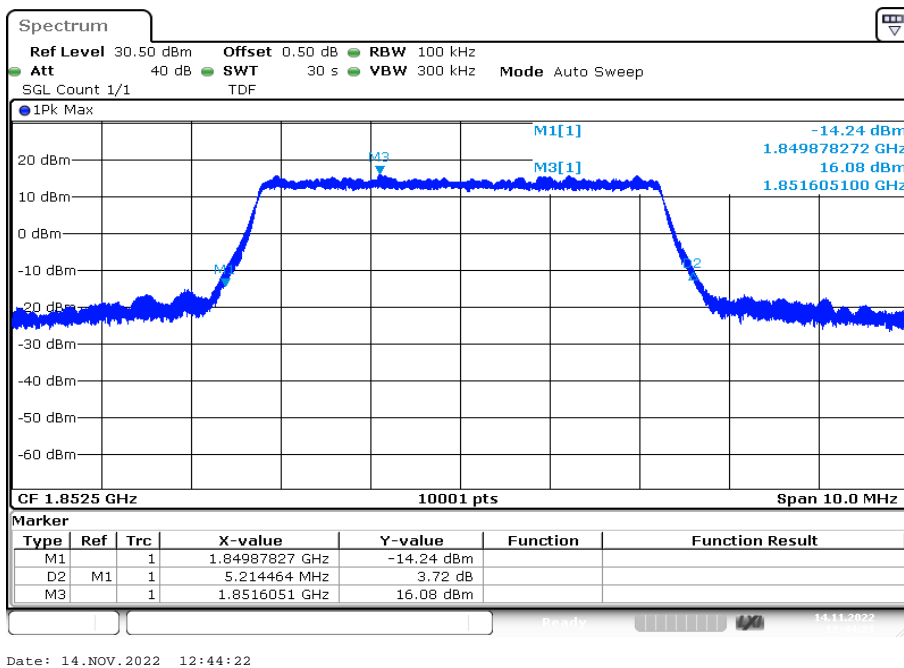
Plot 48: 3 MHz – 16-QAM - highest channel (-26 dBc BW)



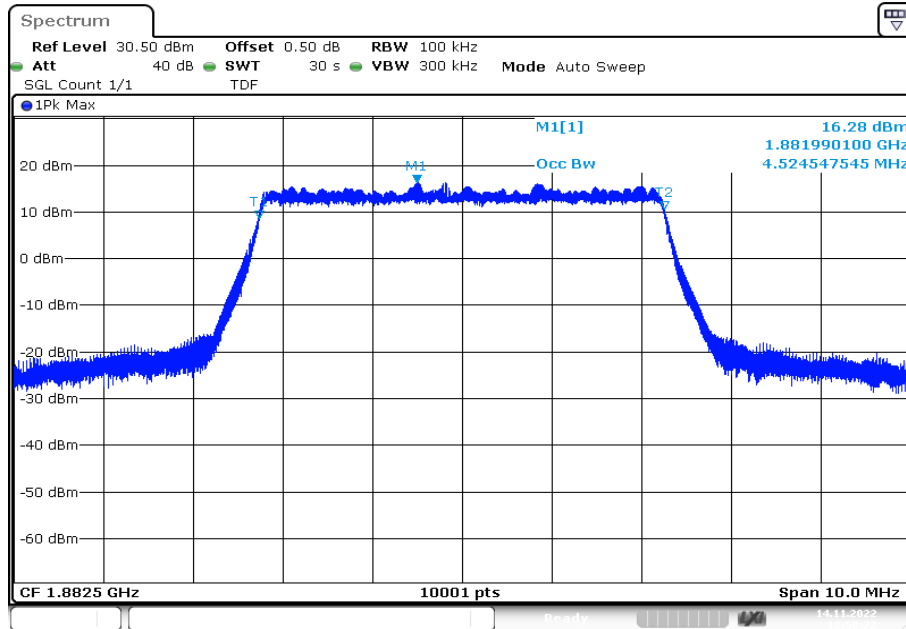
Plot 49: 5 MHz – 16-QAM - lowest channel (99% - OBW)



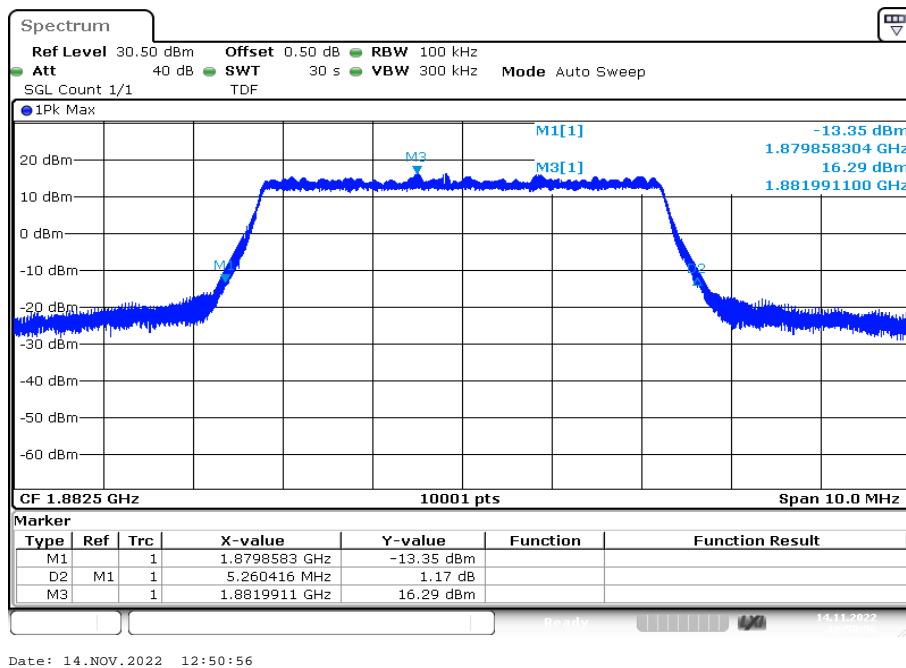
Plot 50: 5 MHz – 16-QAM - lowest channel (-26 dBc BW)



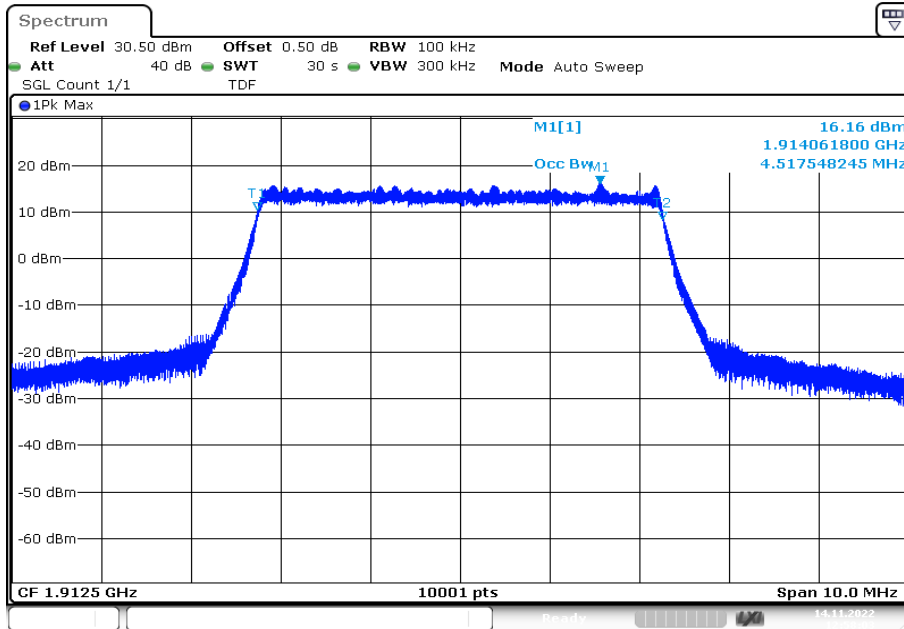
Plot 51: 5 MHz – 16-QAM - middle channel (99% - OBW)



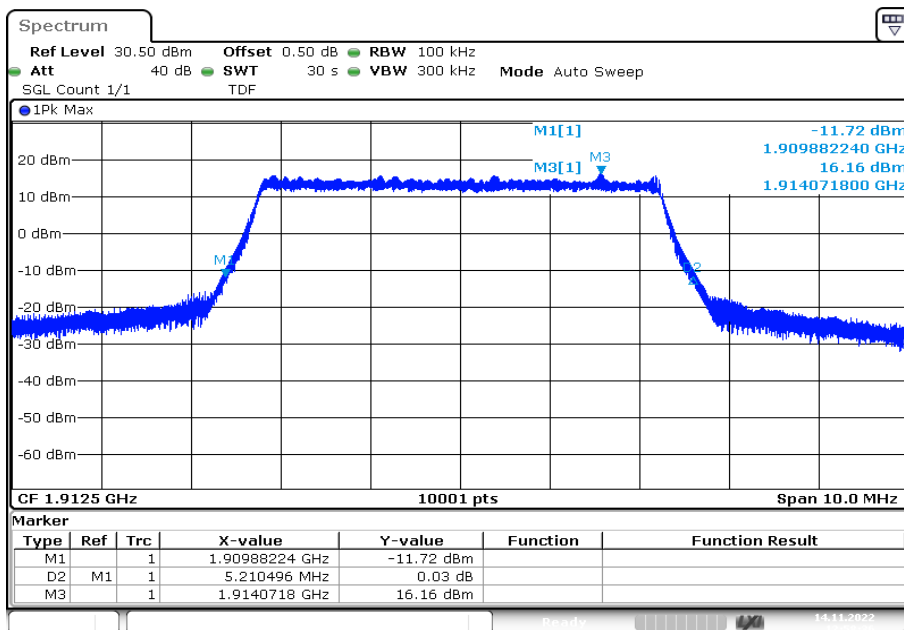
Plot 52: 5 MHz – 16-QAM - middle channel (-26 dBc BW)



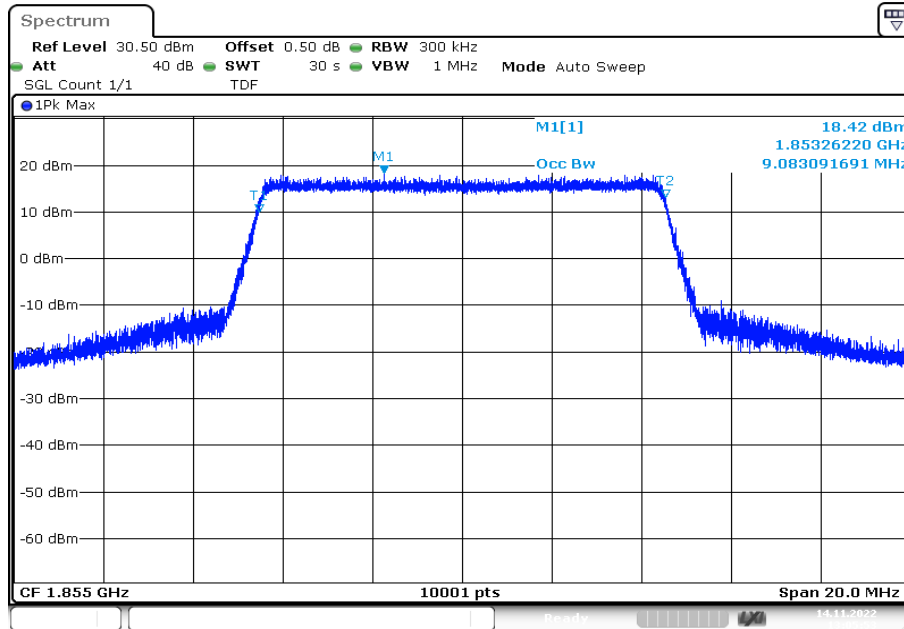
Plot 53: 5 MHz – 16-QAM - highest channel (99% - OBW)



Plot 54: 5 MHz – 16-QAM - highest channel (-26 dBc BW)

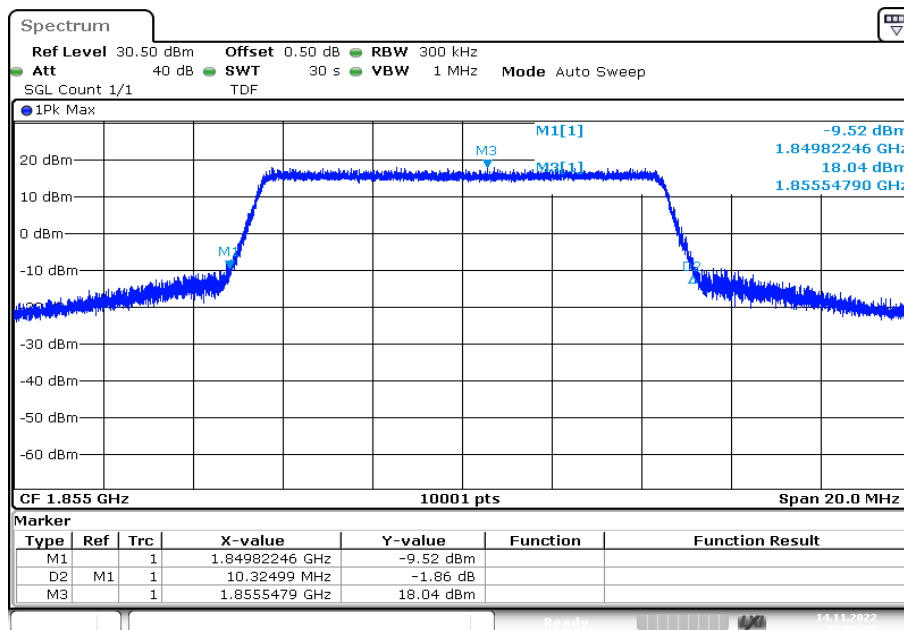


Plot 55: 10 MHz – 16-QAM - lowest channel (99% - OBW)



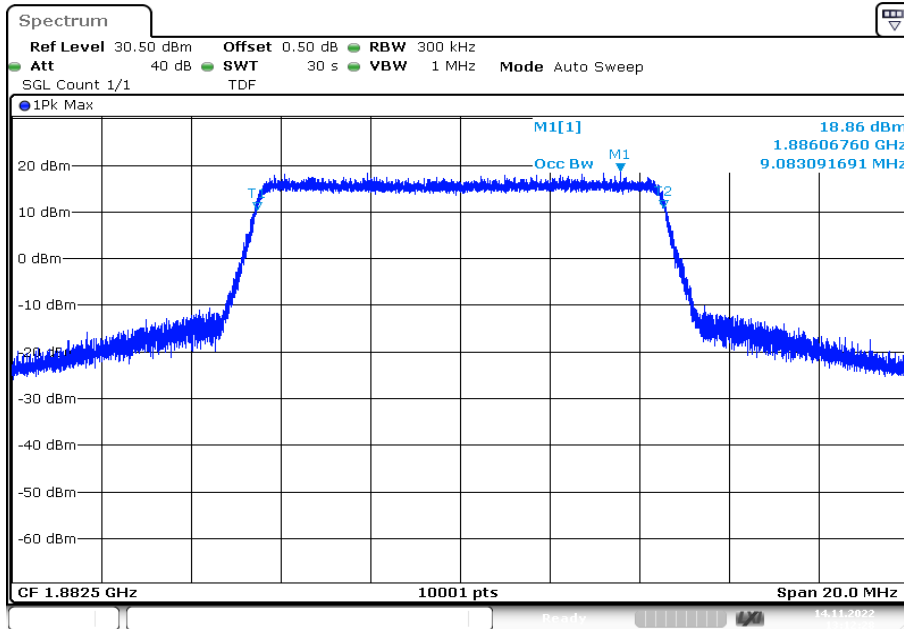
Date: 14.NOV.2022 13:05:54

Plot 56: 10 MHz – 16-QAM - lowest channel (-26 dBc BW)

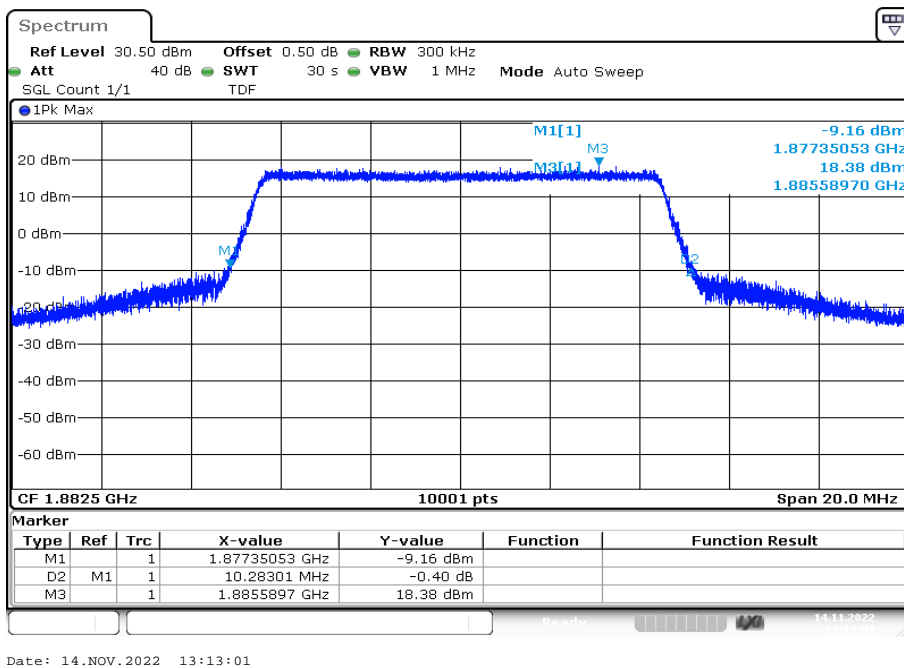


Date: 14.NOV.2022 13:06:27

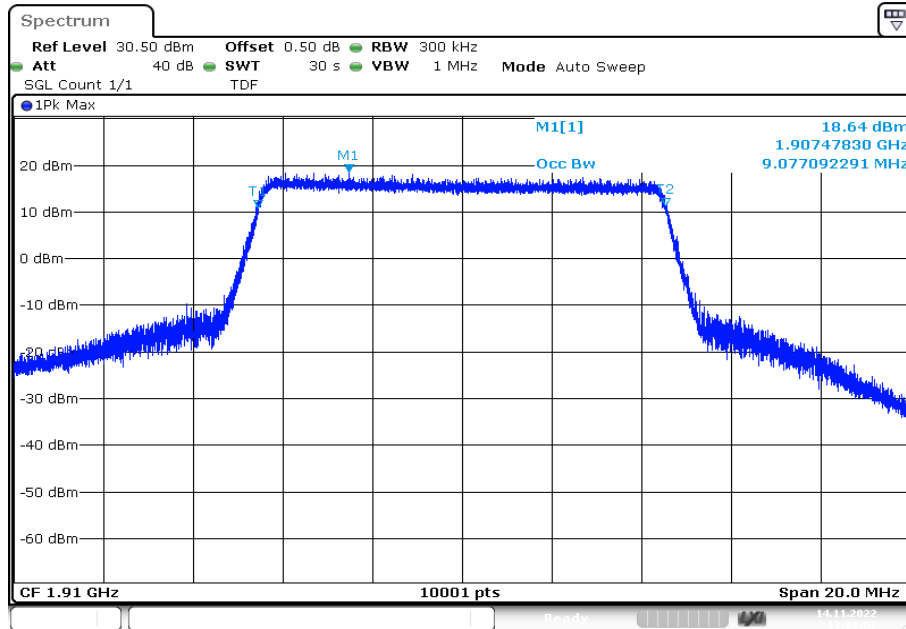
Plot 57: 10 MHz – 16-QAM - middle channel (99% - OBW)



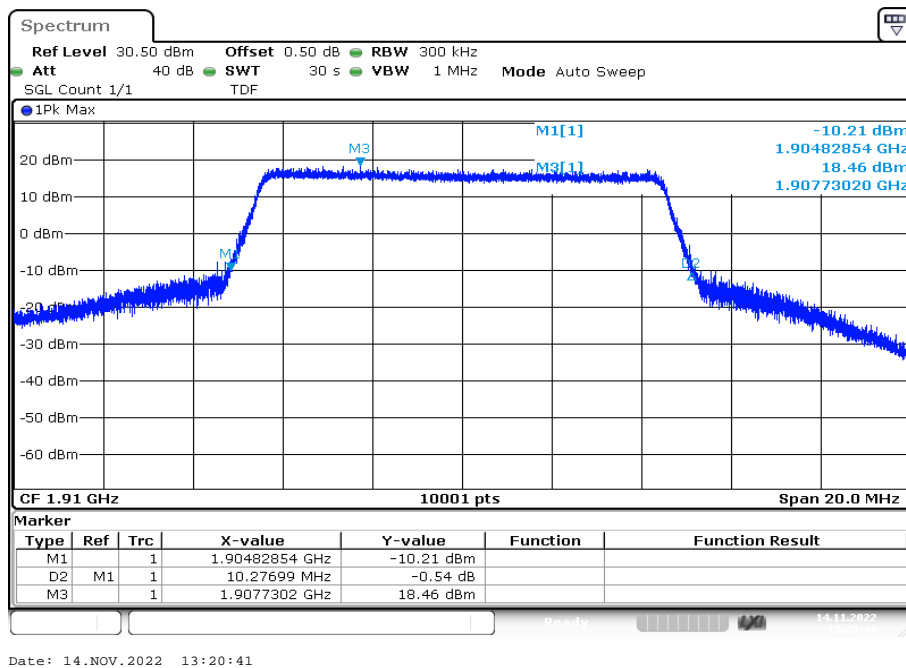
Plot 58: 10 MHz – 16-QAM - middle channel (-26 dBc BW)



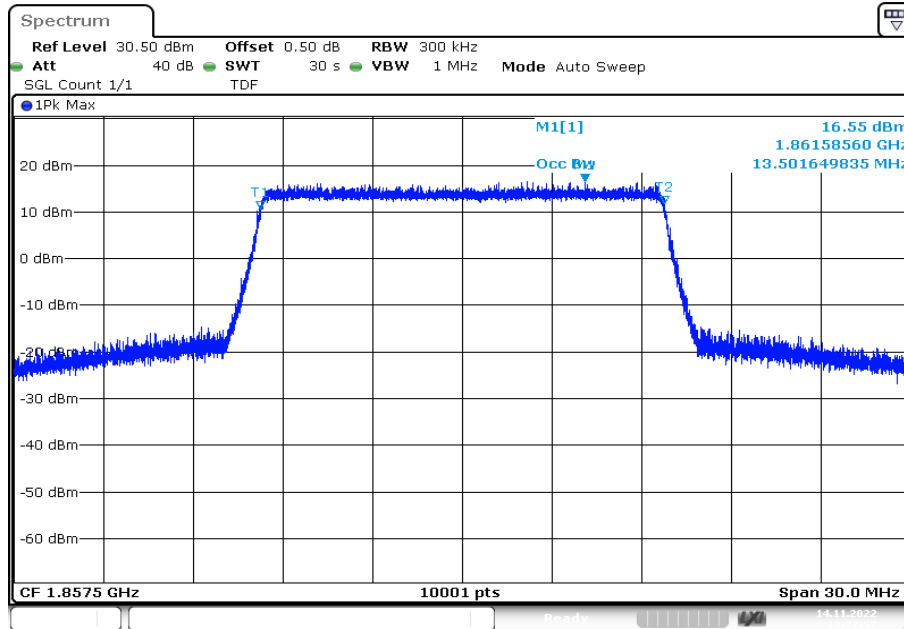
Plot 59: 10 MHz – 16-QAM - highest channel (99% - OBW)



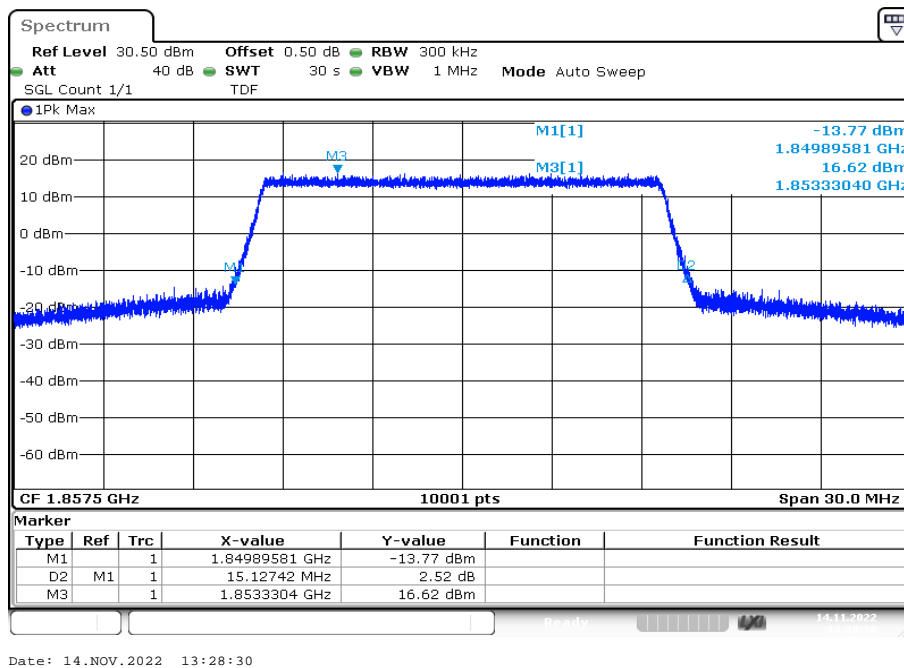
Plot 60: 10 MHz – 16-QAM - highest channel (-26 dBc BW)



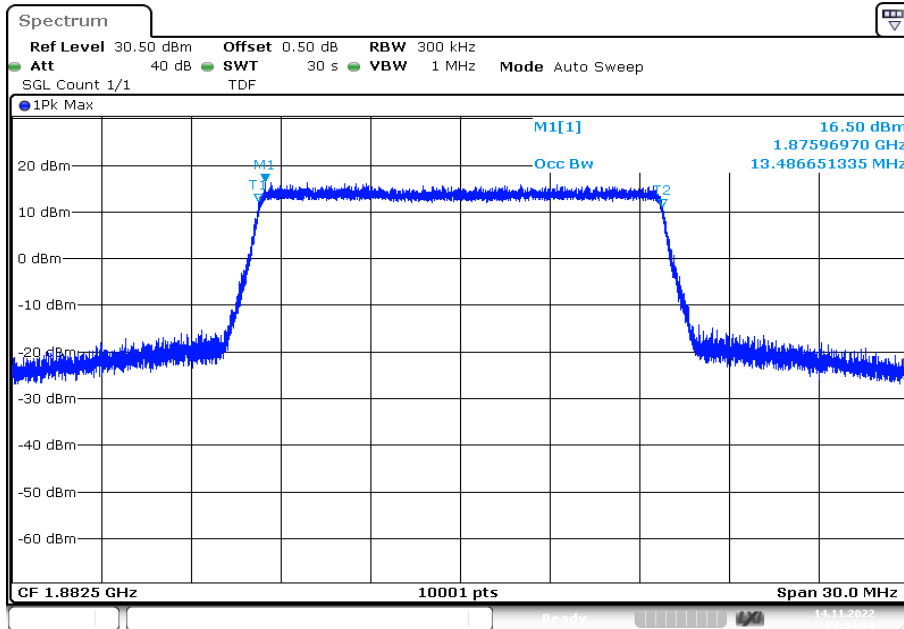
Plot 61: 15 MHz – 16-QAM - lowest channel (99% - OBW)



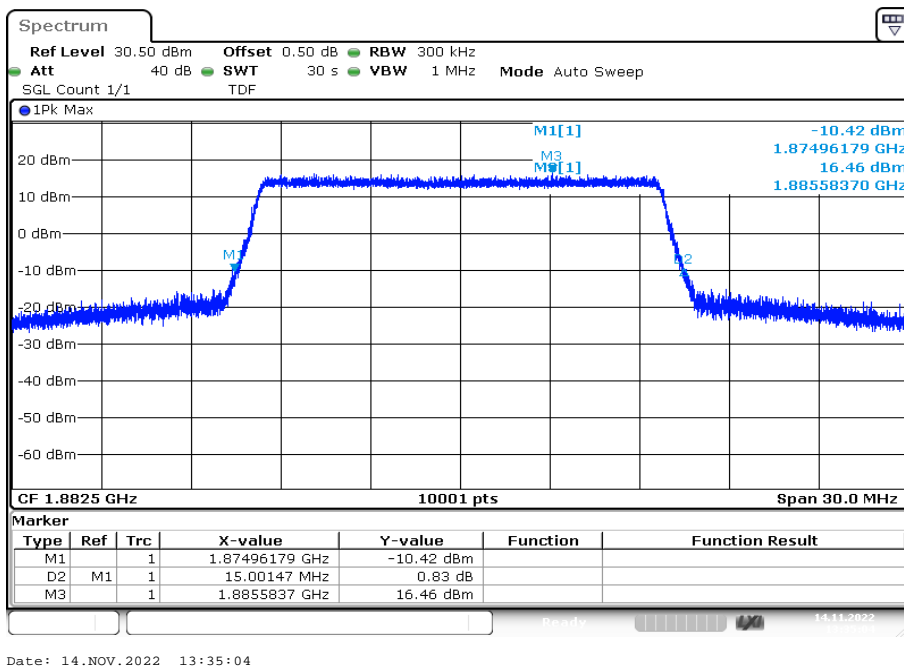
Plot 62: 15 MHz – 16-QAM - lowest channel (-26 dBc BW)



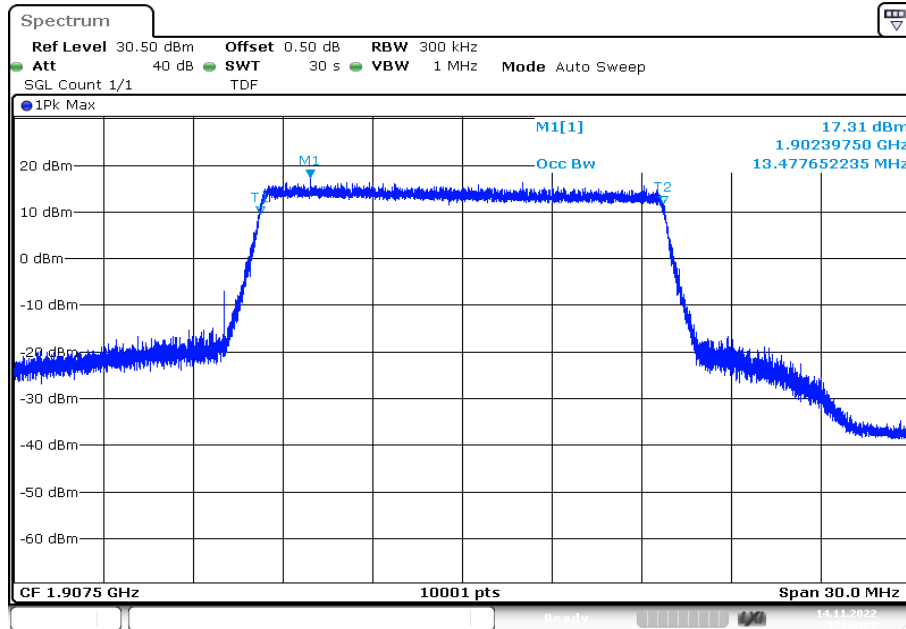
Plot 63: 15 MHz – 16-QAM - middle channel (99% - OBW)



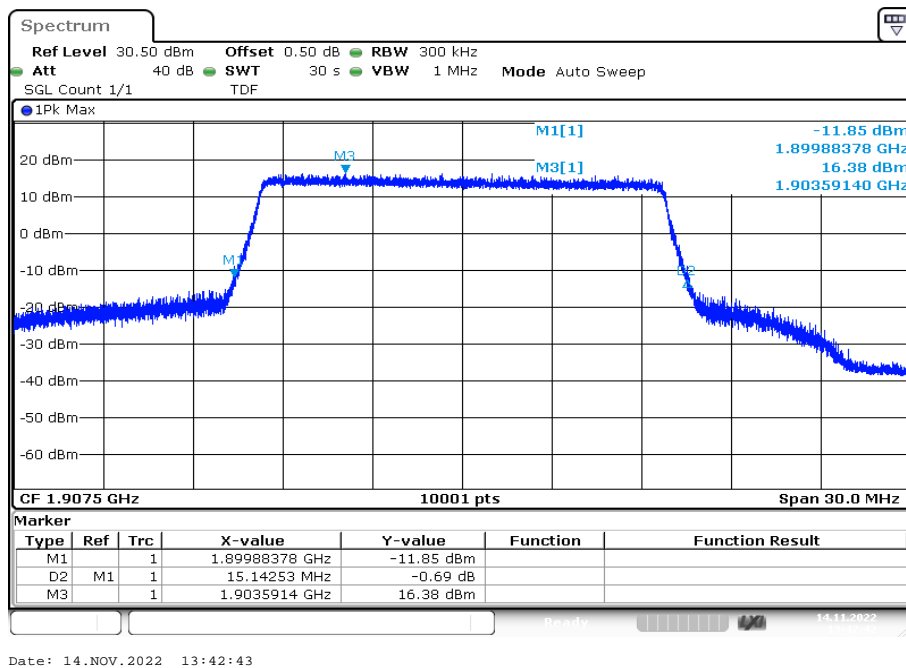
Plot 64: 15 MHz – 16-QAM - middle channel (-26 dBc BW)



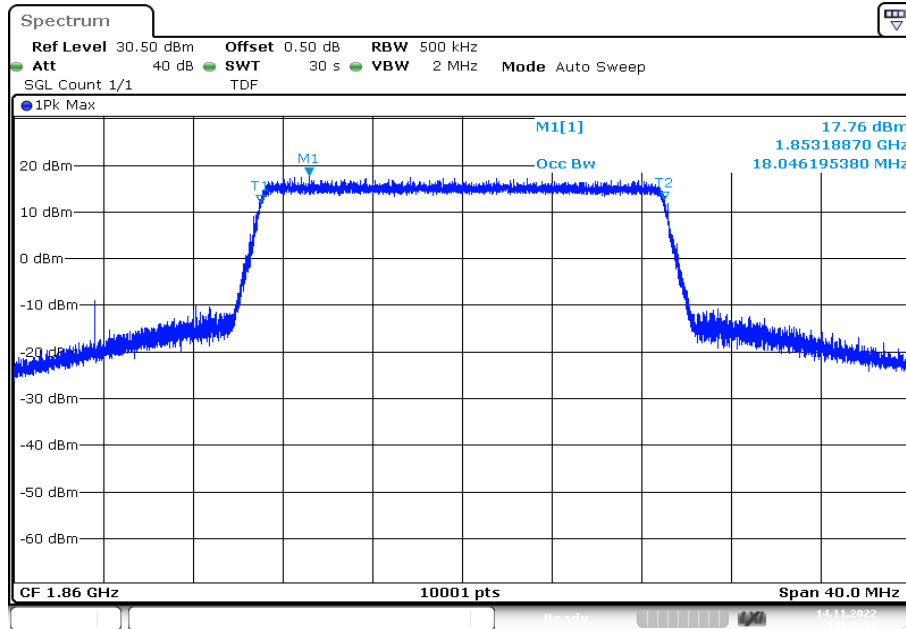
Plot 65: 15 MHz – 16-QAM - highest channel (99% - OBW)



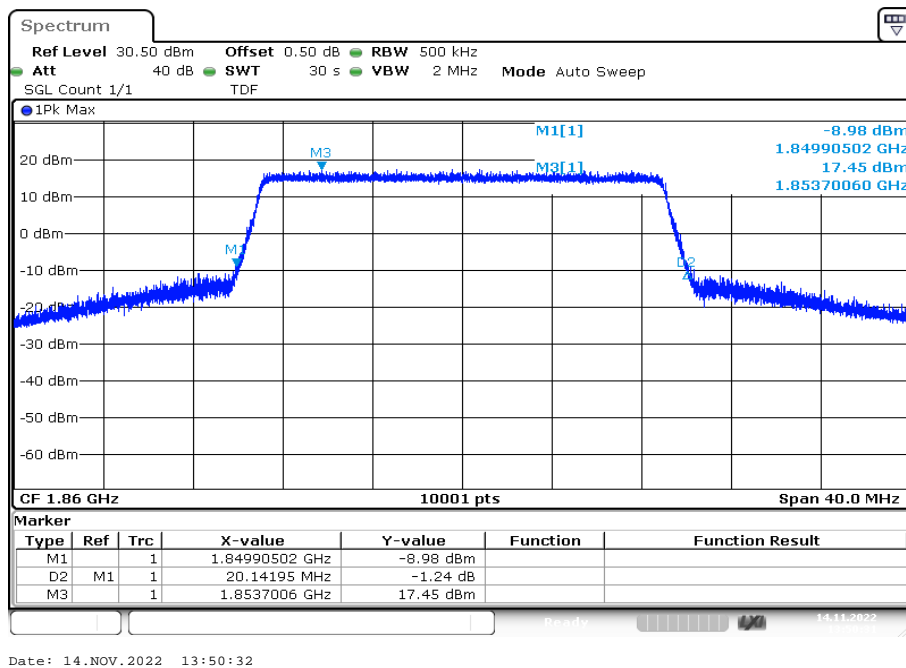
Plot 66: 15 MHz – 16-QAM - highest channel (-26 dBc BW)



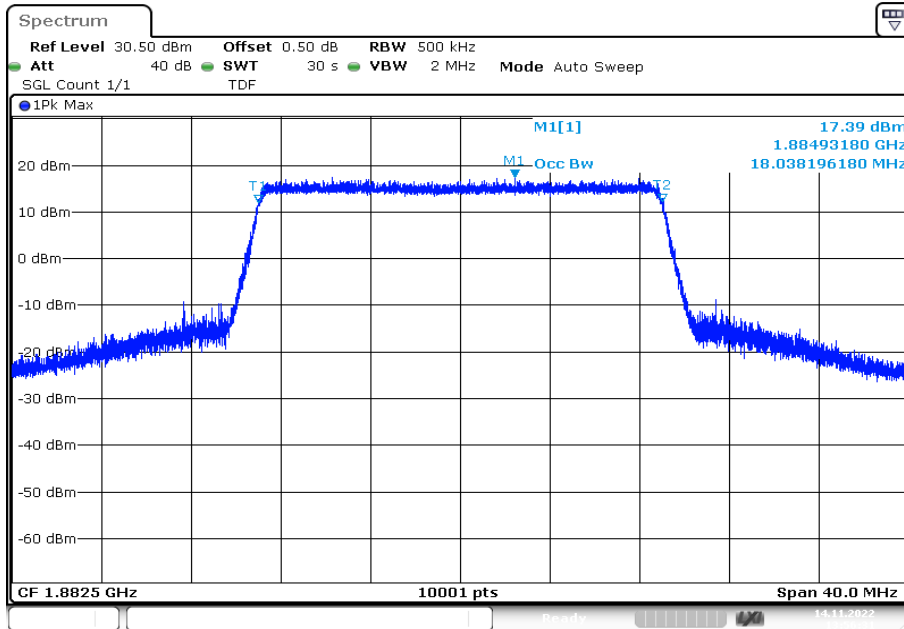
Plot 67: 20 MHz – 16-QAM - lowest channel (99% - OBW)



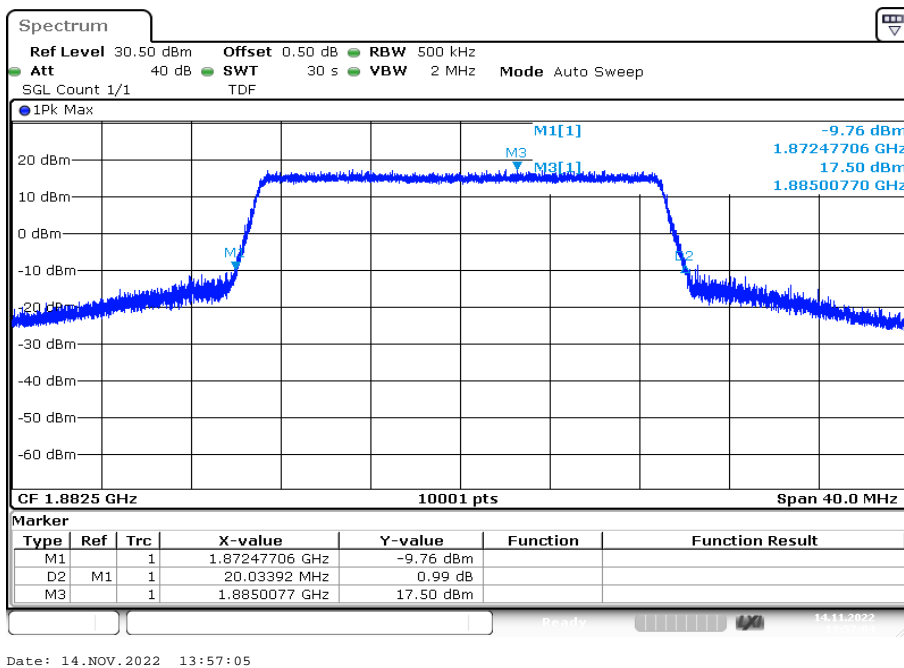
Plot 68: 20 MHz – 16-QAM - lowest channel (-26 dBc BW)



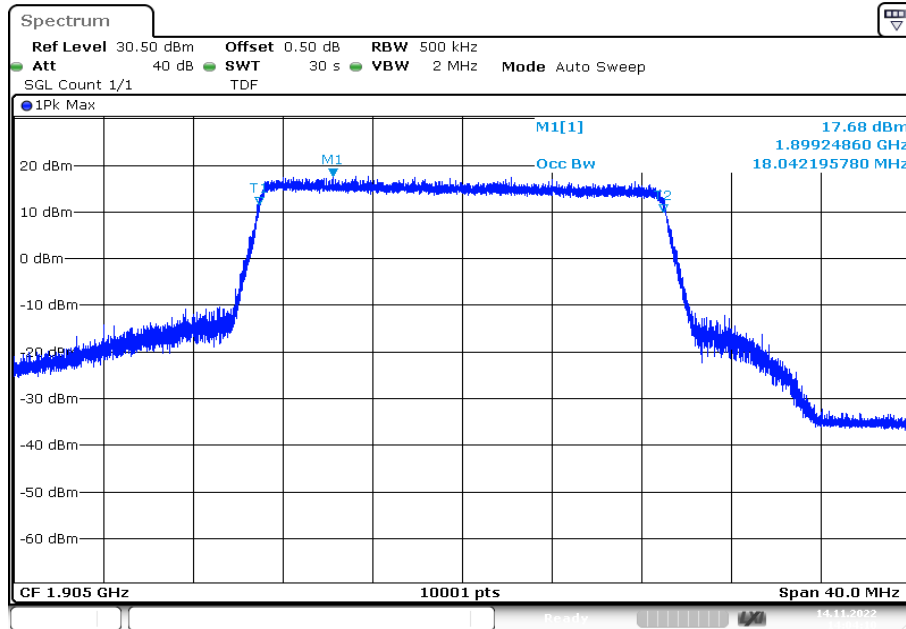
Plot 69: 20 MHz – 16-QAM - middle channel (99% - OBW)



Plot 70: 20 MHz – 16-QAM - middle channel (-26 dBc BW)

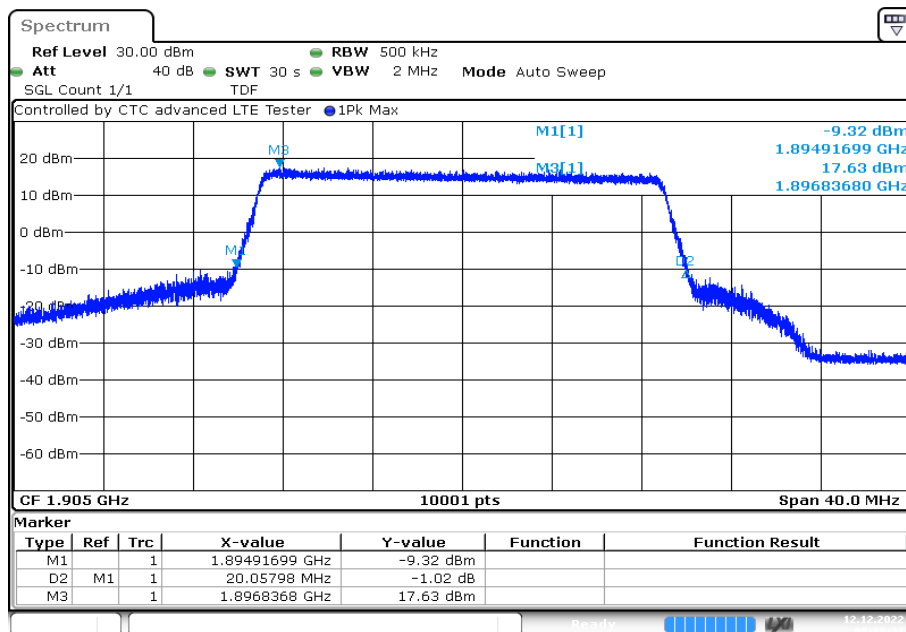


Plot 71: 20 MHz – 16-QAM - highest channel (99% - OBW)



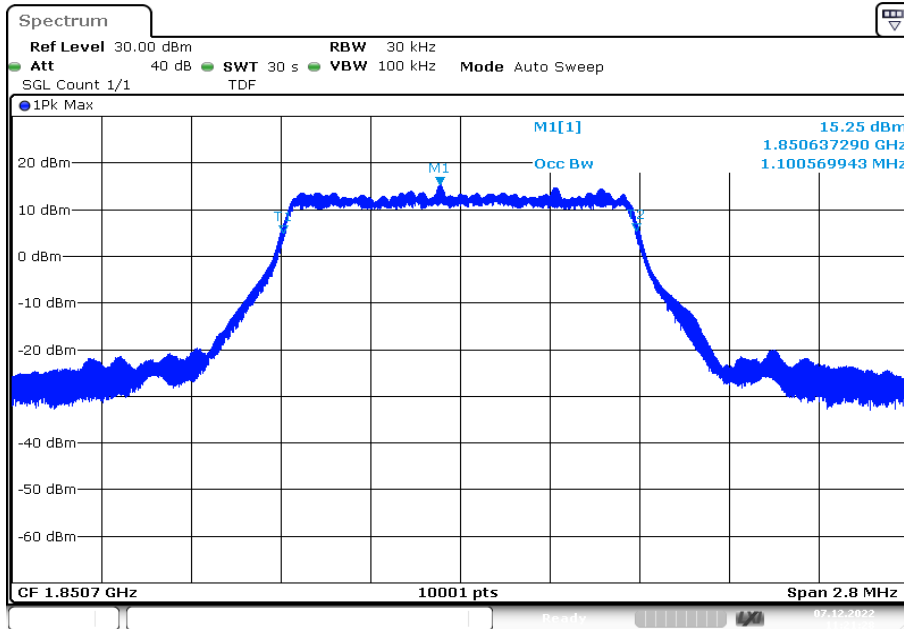
Date: 14.NOV.2022 14:04:10

Plot 72: 20 MHz – 16-QAM - highest channel (-26 dBc BW)



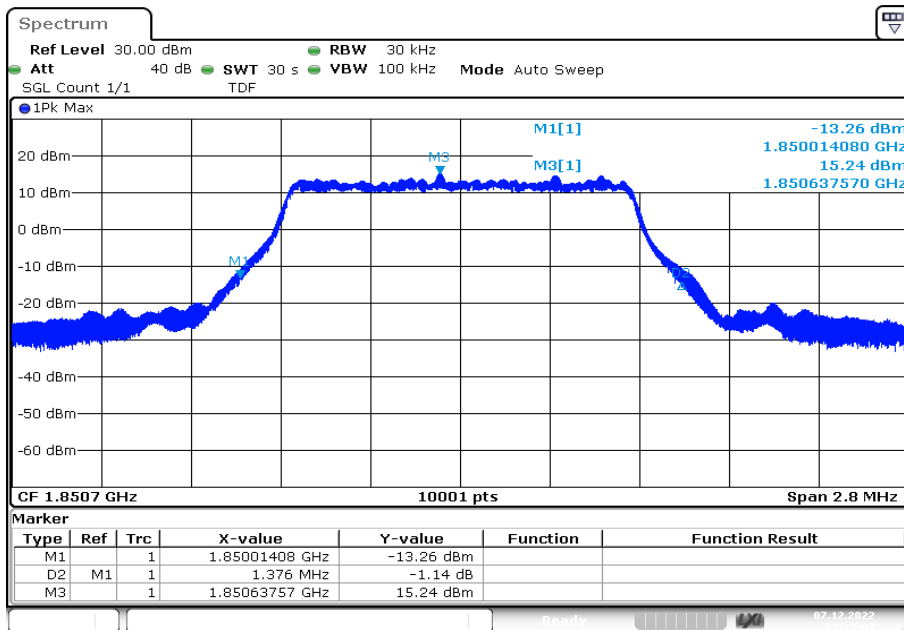
Date: 12 DEC. 2022 08:38:37

Plot 73: 1.4 MHz – 64-QAM - lowest channel (99% - OBW)



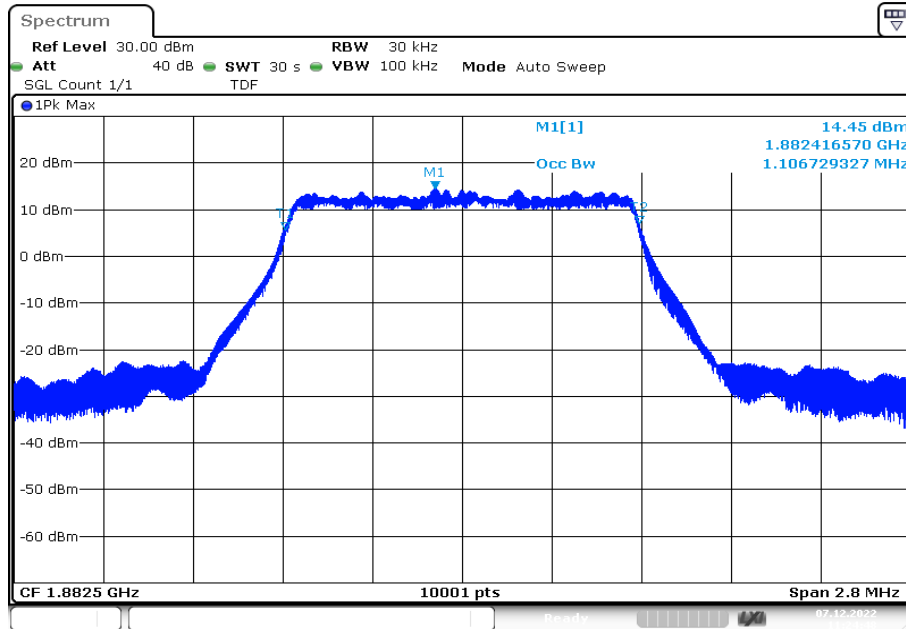
Date: 7.DEC.2022 11:21:28

Plot 74: 1.4 MHz – 64-QAM - lowest channel (-26 dBc BW)



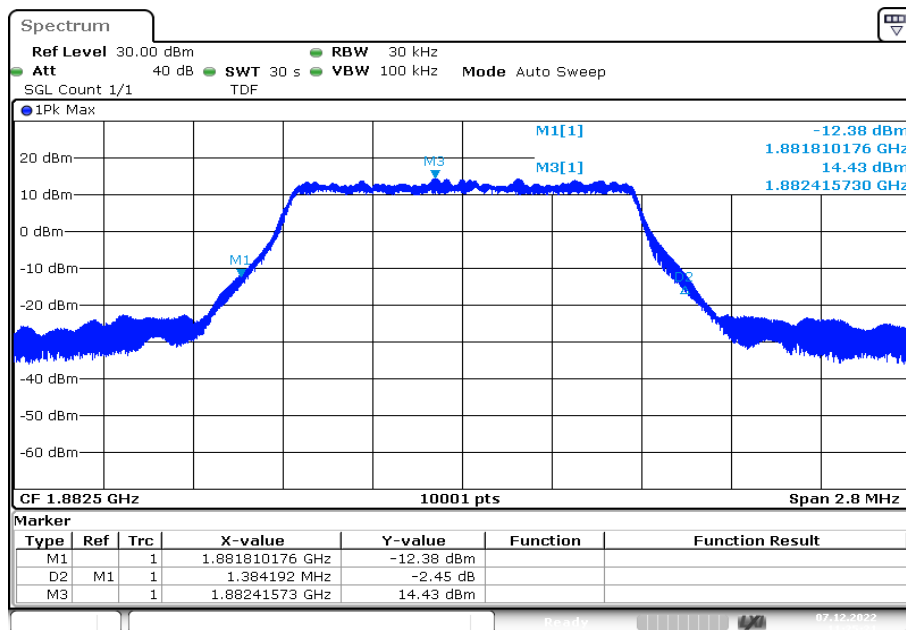
Date: 7.DEC.2022 11:22:02

Plot 75: 1.4 MHz – 64-QAM - middle channel (99% - OBW)



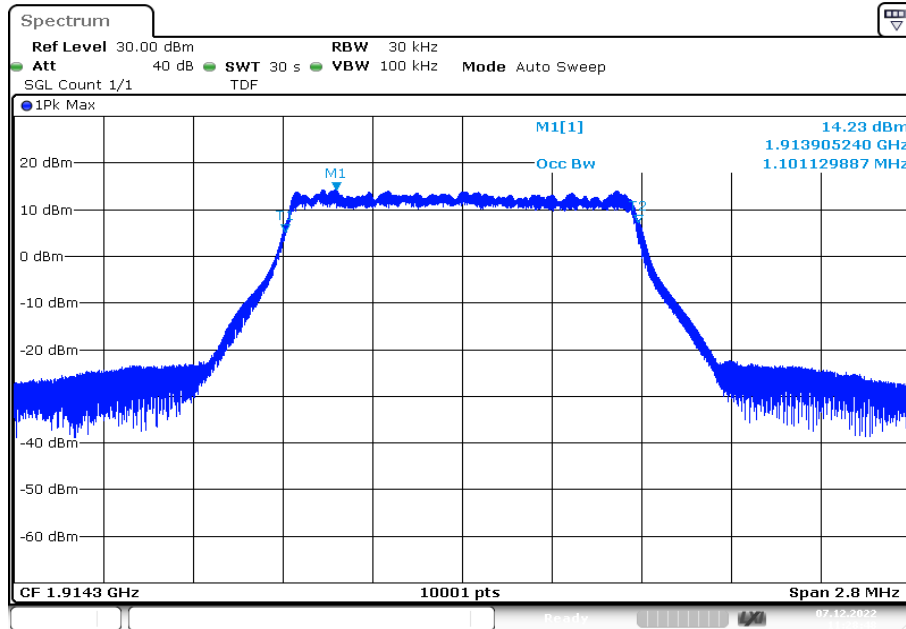
Date: 7.DEC.2022 11:24:48

Plot 76: 1.4 MHz – 64-QAM - middle channel (-26 dBc BW)

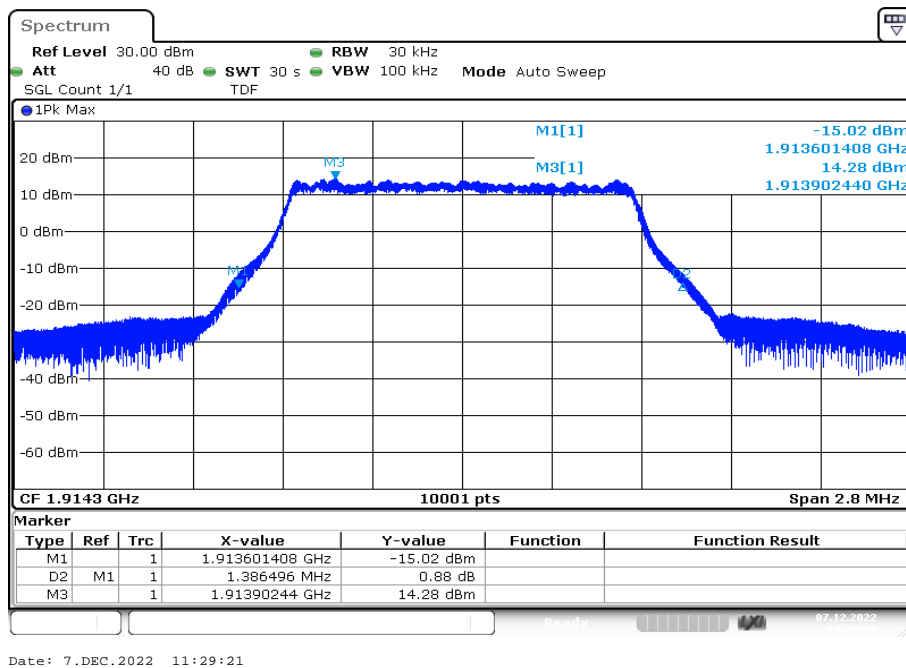


Date: 7.DEC.2022 11:25:21

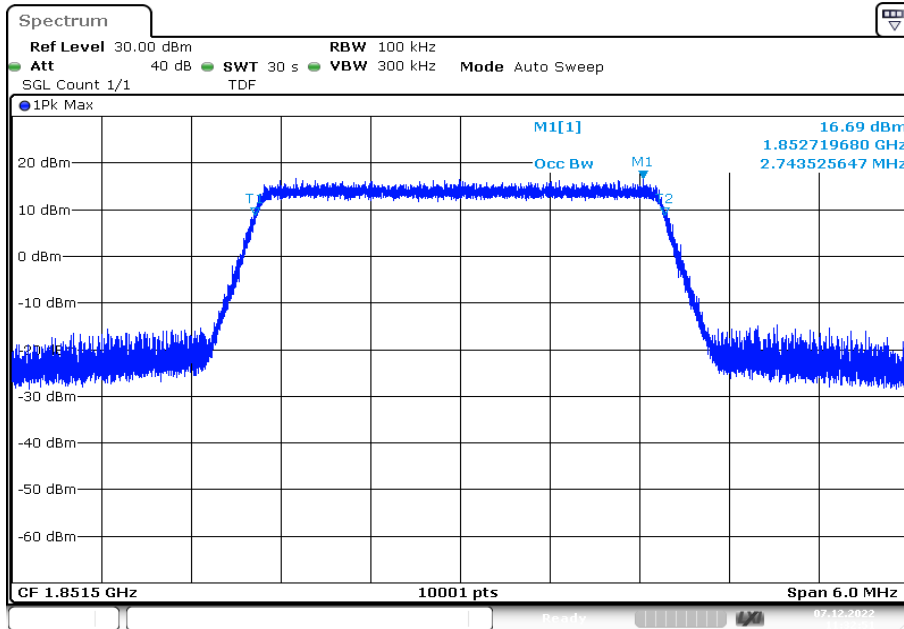
Plot 77: 1.4 MHz – 64-QAM - highest channel (99% - OBW)



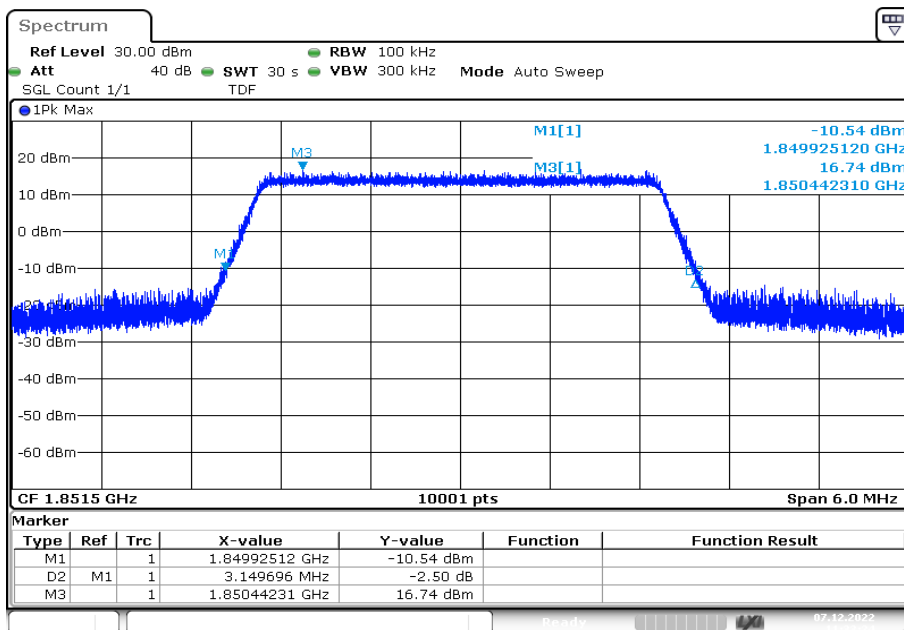
Plot 78: 1.4 MHz – 64-QAM - highest channel (-26 dBc BW)



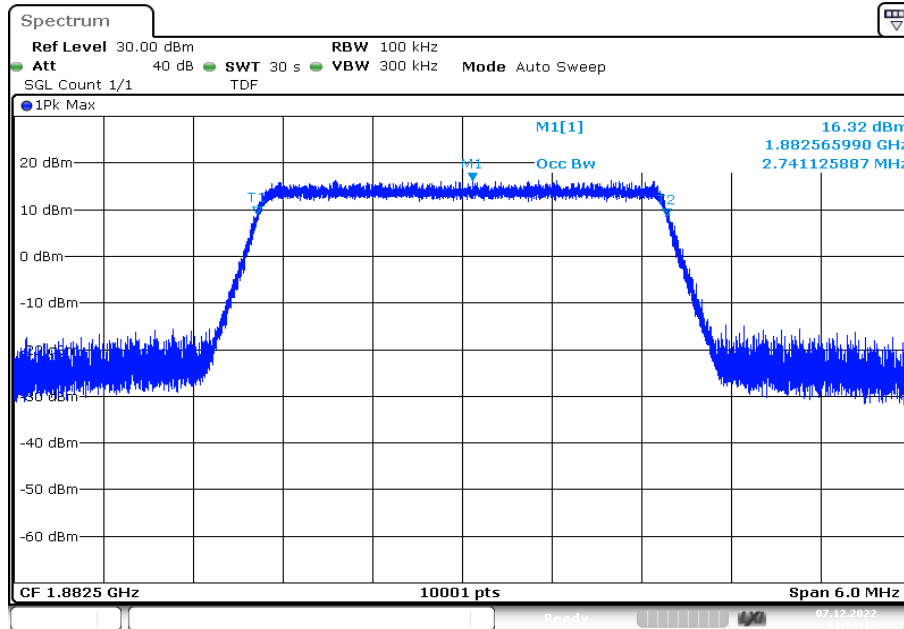
Plot 79: 3 MHz – 64-QAM - lowest channel (99% - OBW)



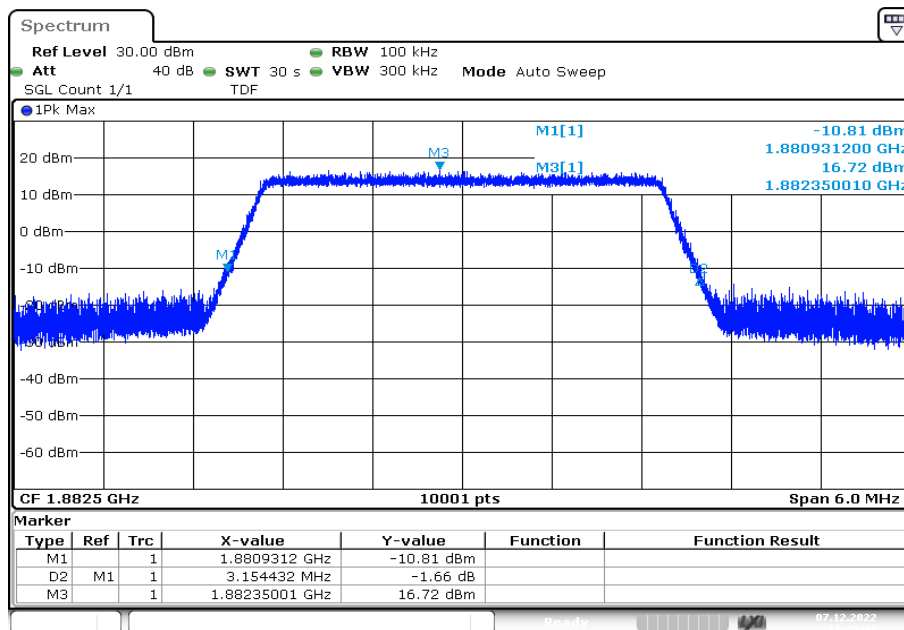
Plot 80: 3 MHz – 64-QAM - lowest channel (-26 dBc BW)



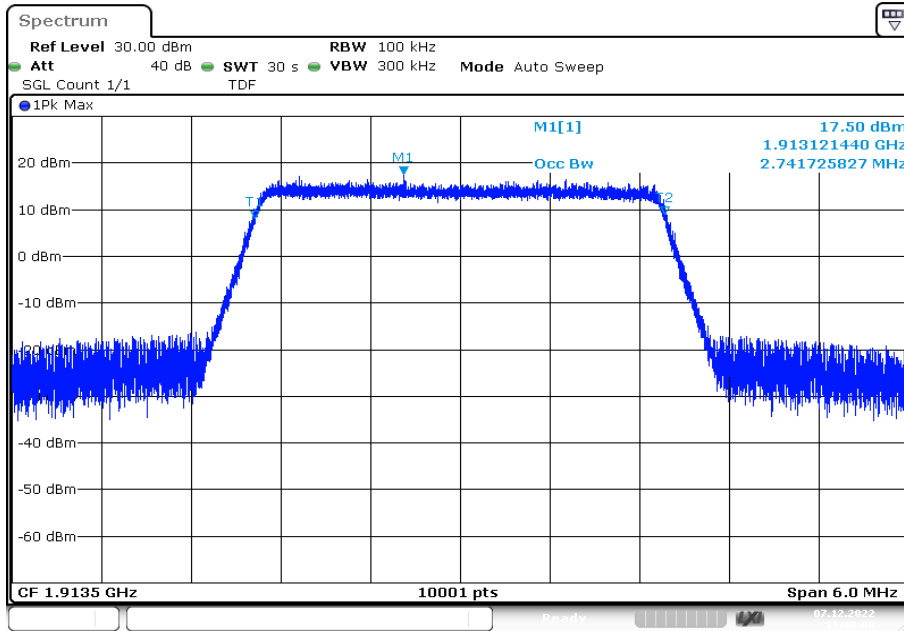
Plot 81: 3 MHz – 64-QAM - middle channel (99% - OBW)



Plot 82: 3 MHz – 64-QAM - middle channel (-26 dBc BW)

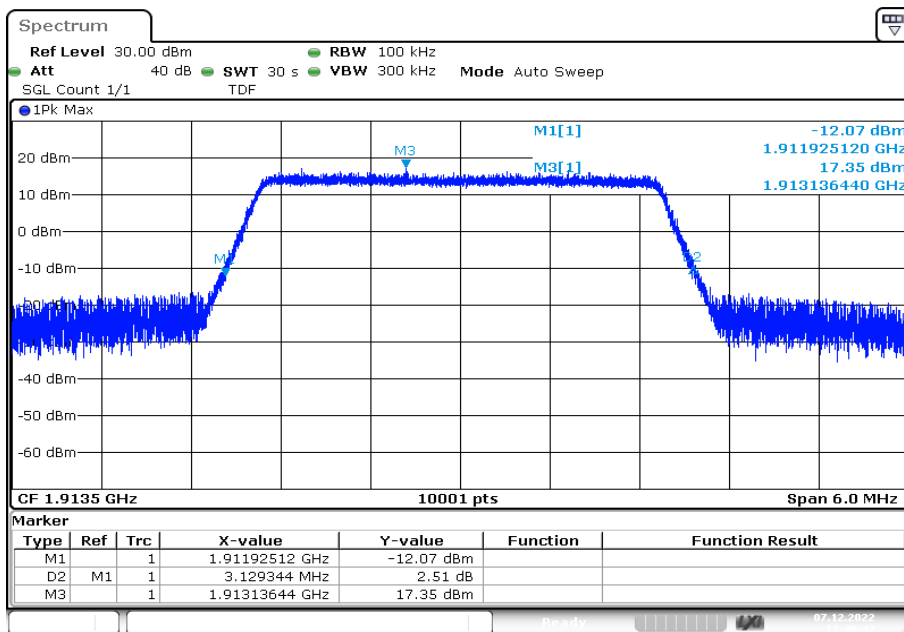


Plot 83: 3 MHz – 64-QAM - highest channel (99% - OBW)



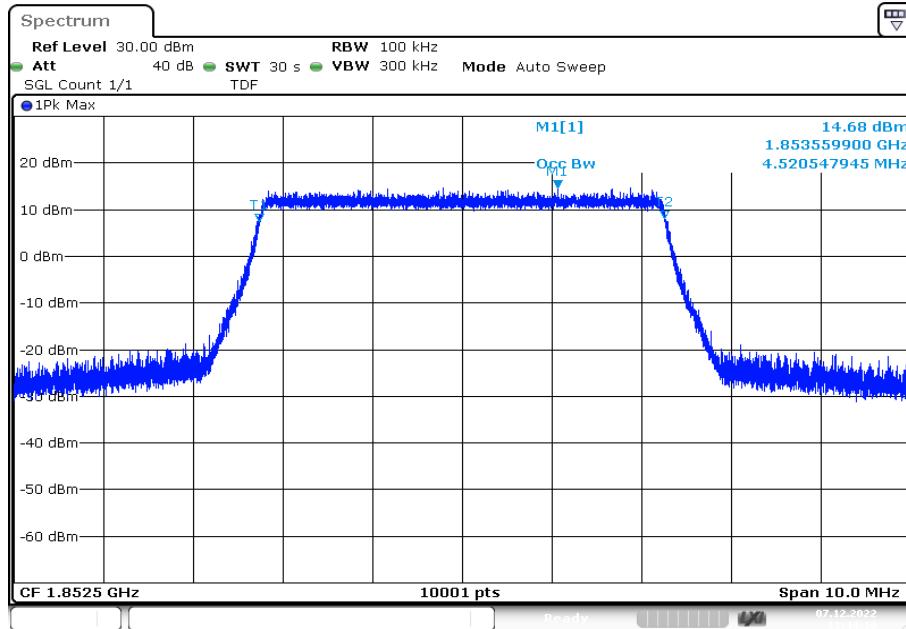
Date: 7.DEC.2022 11:40:08

Plot 84: 3 MHz – 64-QAM - highest channel (-26 dBc BW)



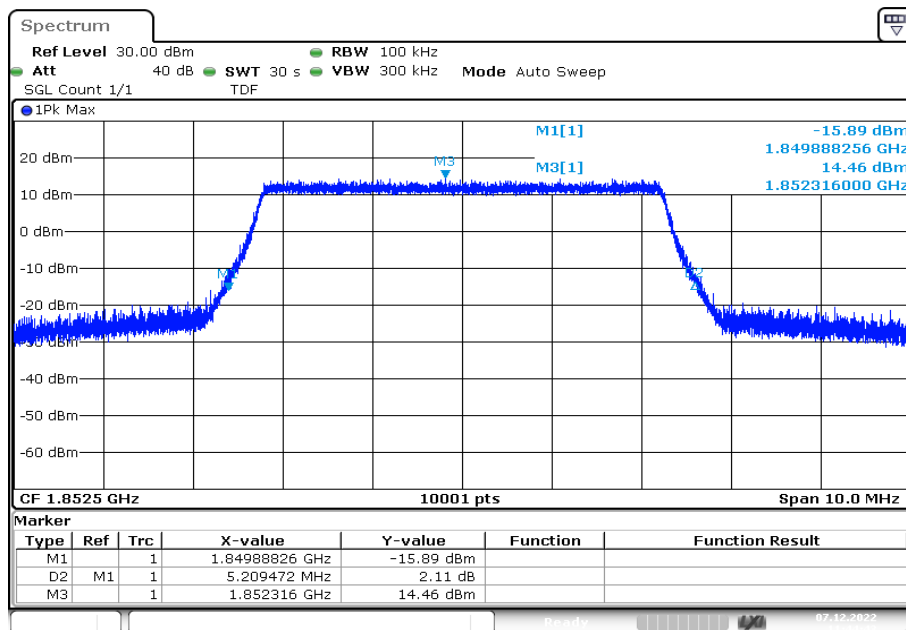
Date: 7.DEC.2022 11:40:42

Plot 85: 5 MHz – 64-QAM - lowest channel (99% - OBW)



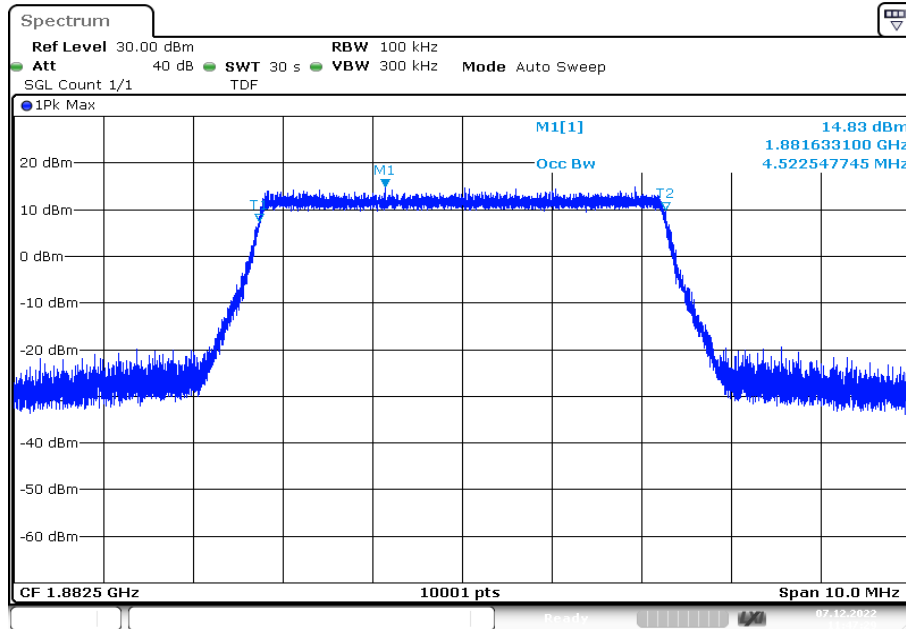
Date: 7.DEC.2022 11:44:10

Plot 86: 5 MHz – 64-QAM - lowest channel (-26 dBc BW)

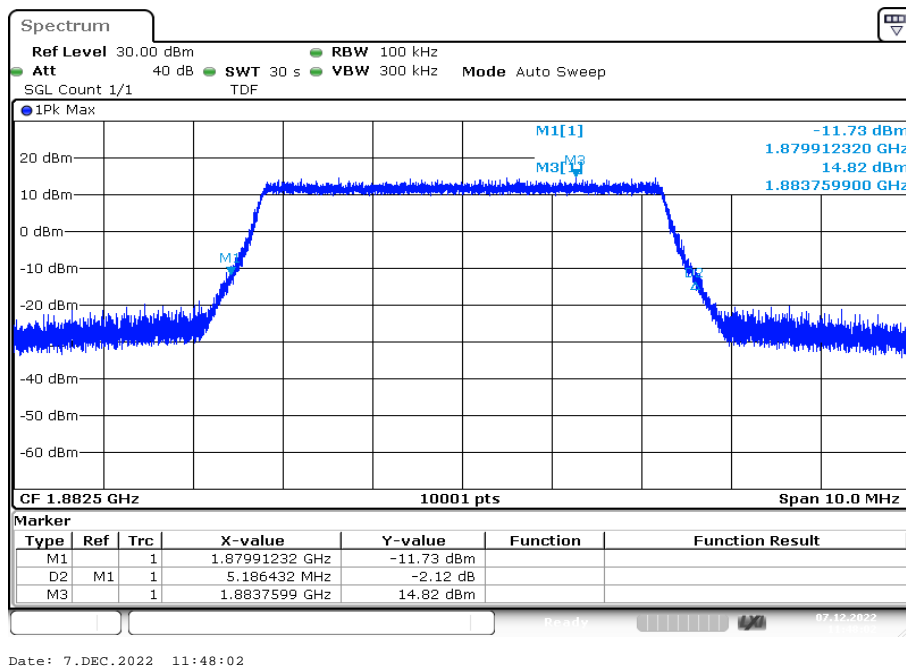


Date: 7.DEC.2022 11:44:43

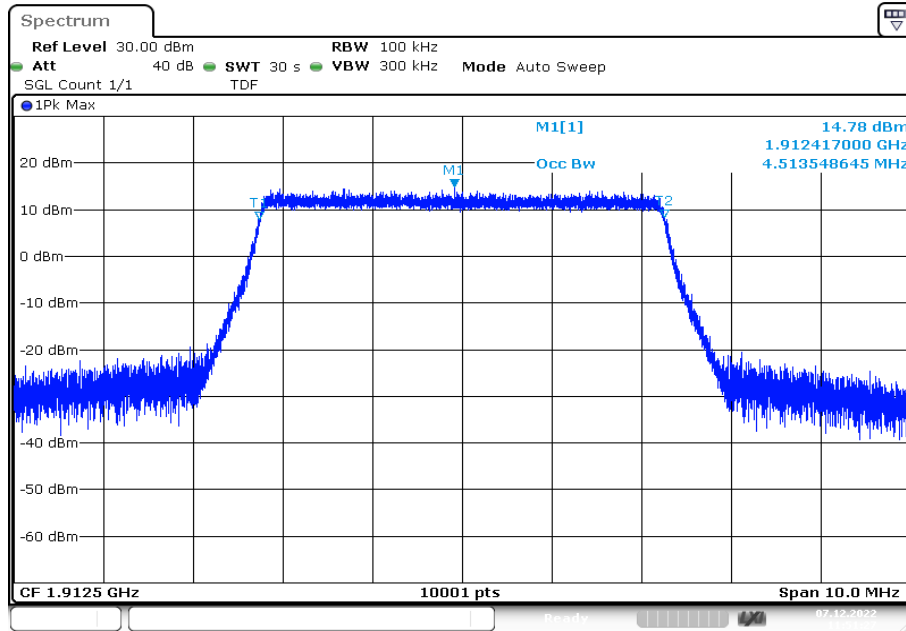
Plot 87: 5 MHz – 64-QAM - middle channel (99% - OBW)



Plot 88: 5 MHz – 64-QAM - middle channel (-26 dBc BW)

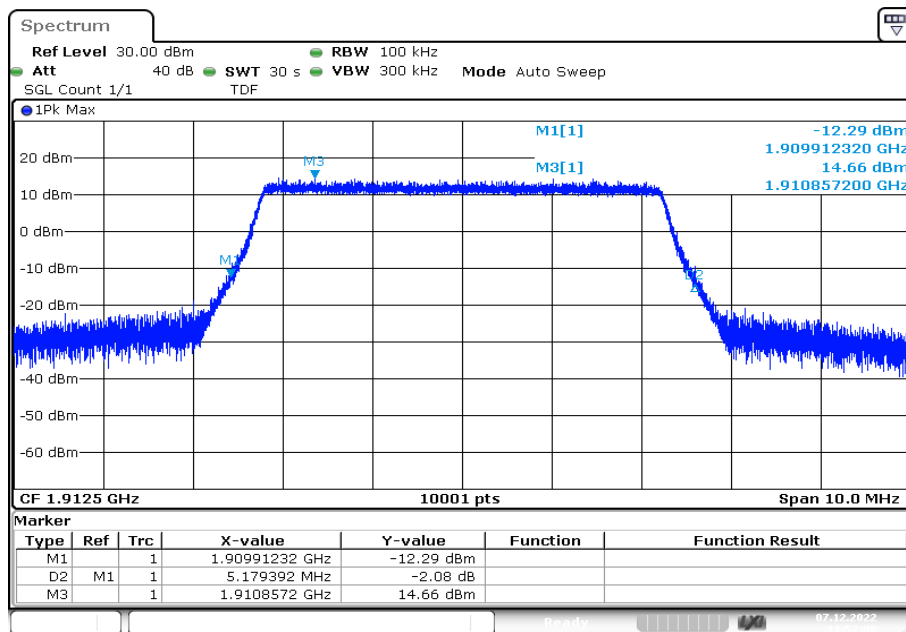


Plot 89: 5 MHz – 64-QAM - highest channel (99% - OBW)



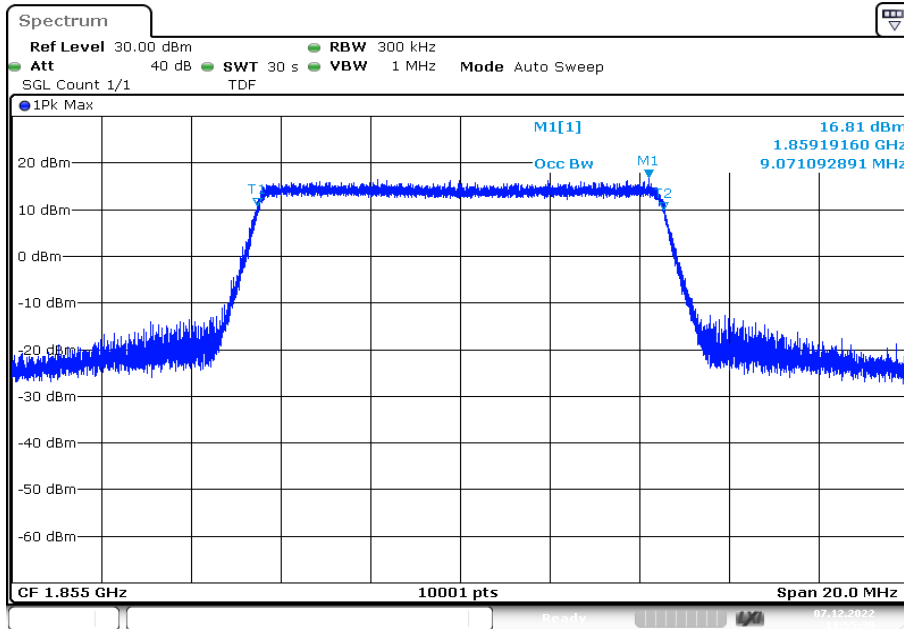
Date: 7.DEC.2022 11:51:27

Plot 90: 5 MHz – 64-QAM - highest channel (-26 dBc BW)



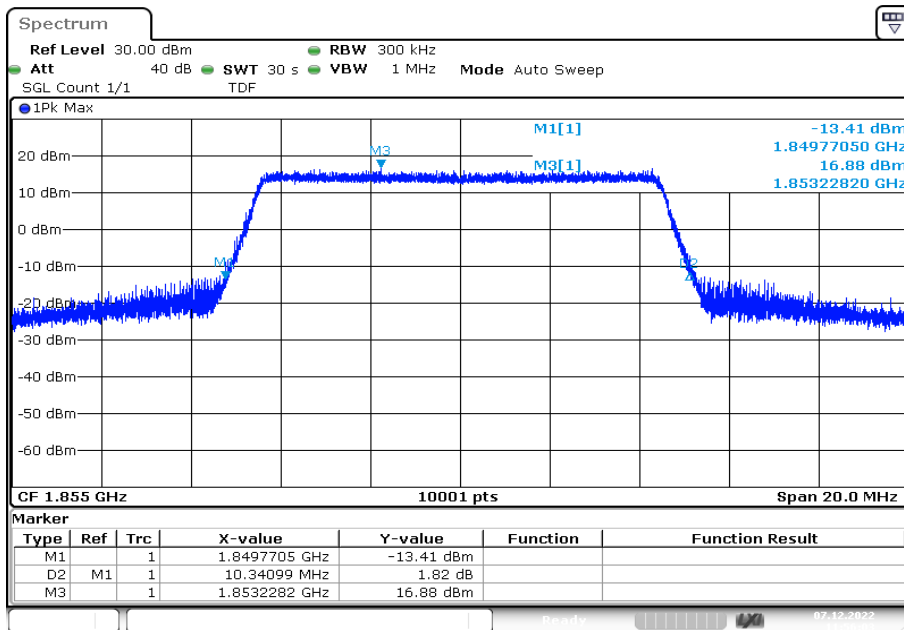
Date: 7.DEC.2022 11:52:01

Plot 91: 10 MHz – 64-QAM - lowest channel (99% - OBW)



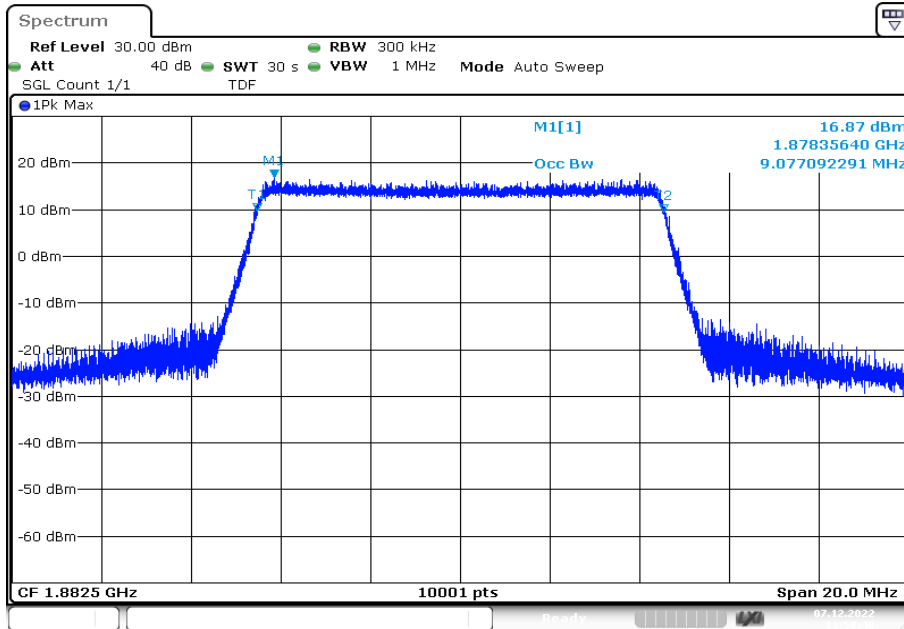
Date: 7.DEC.2022 11:55:30

Plot 92: 10 MHz – 64-QAM - lowest channel (-26 dBc BW)



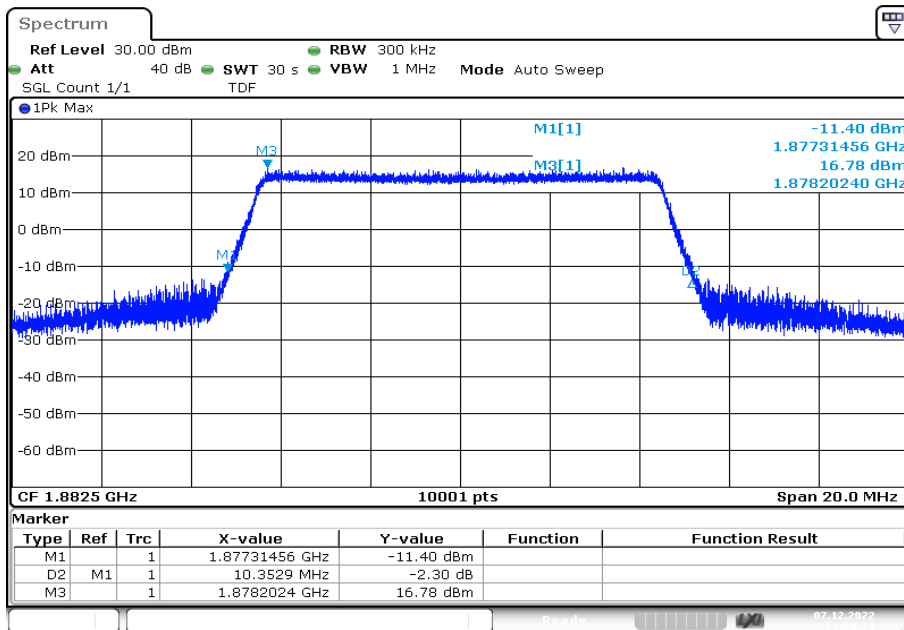
Date: 7.DEC.2022 11:56:03

Plot 93: 10 MHz – 64-QAM - middle channel (99% - OBW)



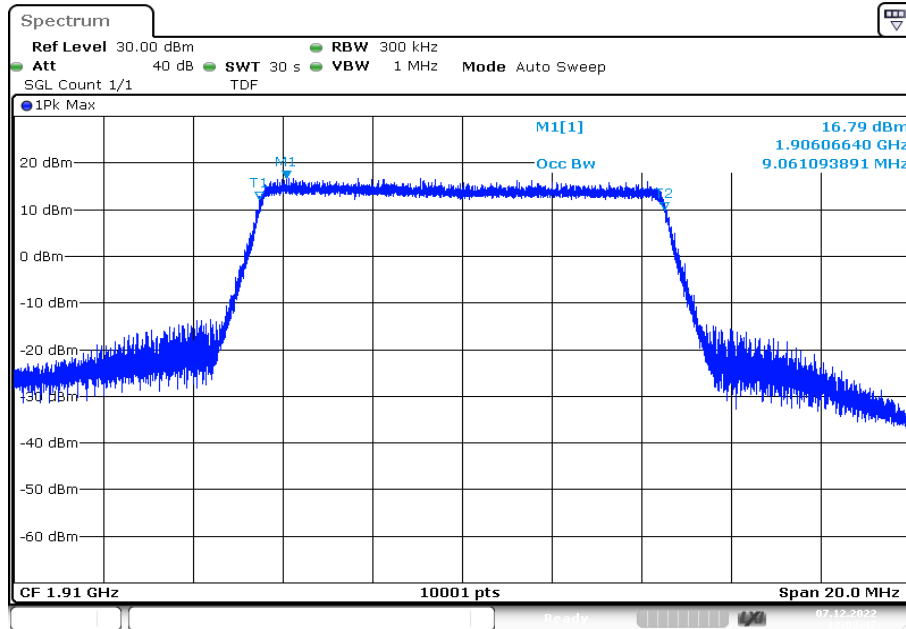
Date: 7.DEC.2022 11:58:49

Plot 94: 10 MHz – 64-QAM - middle channel (-26 dBc BW)

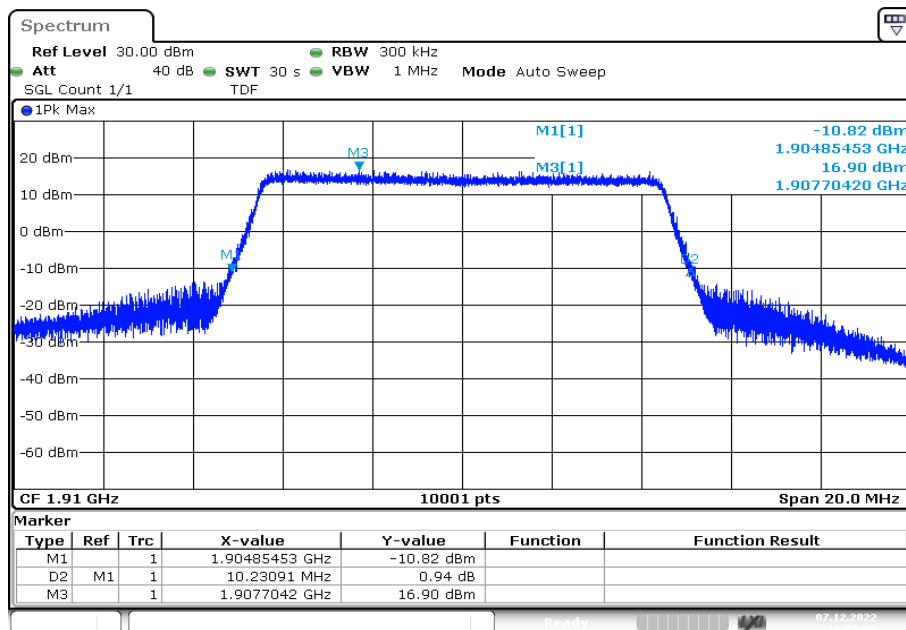


Date: 7.DEC.2022 11:59:21

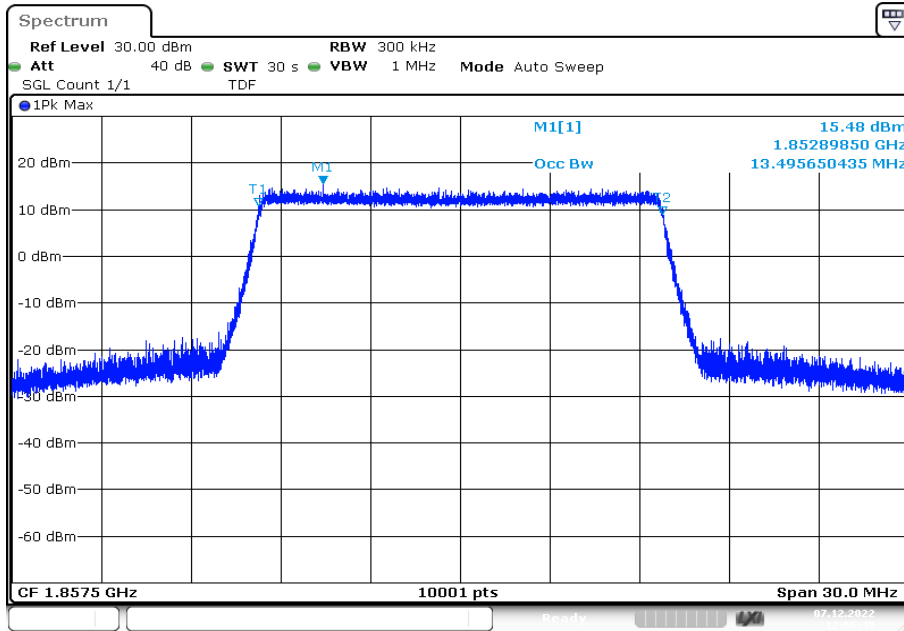
Plot 95: 10 MHz – 64-QAM - highest channel (99% - OBW)



Plot 96: 10 MHz – 64-QAM - highest channel (-26 dBc BW)

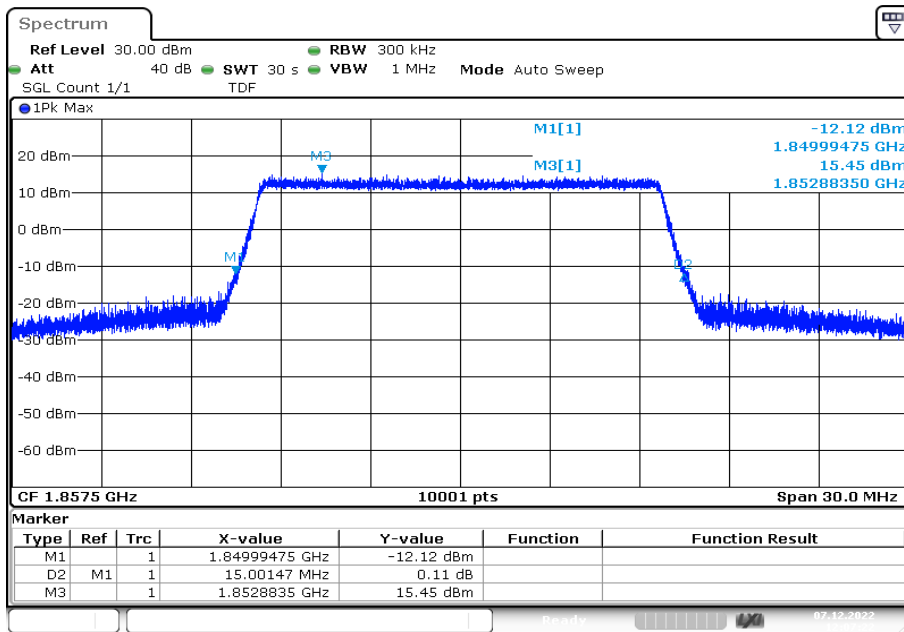


Plot 97: 15 MHz -64-QAM - lowest channel (99% - OBW)



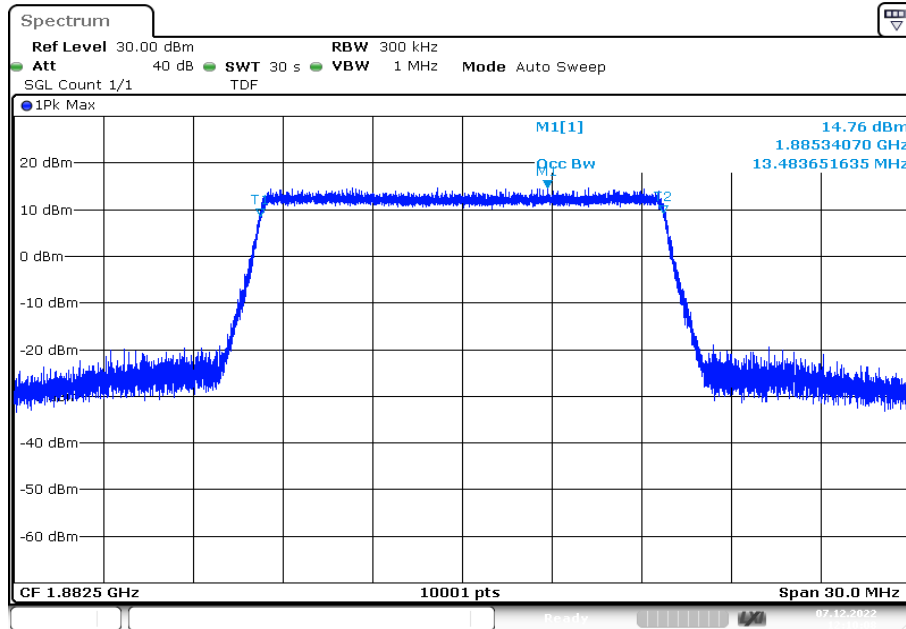
Date: 7.DEC.2022 12:06:49

Plot 98: 15 MHz - 64-QAM - lowest channel (-26 dBc BW)



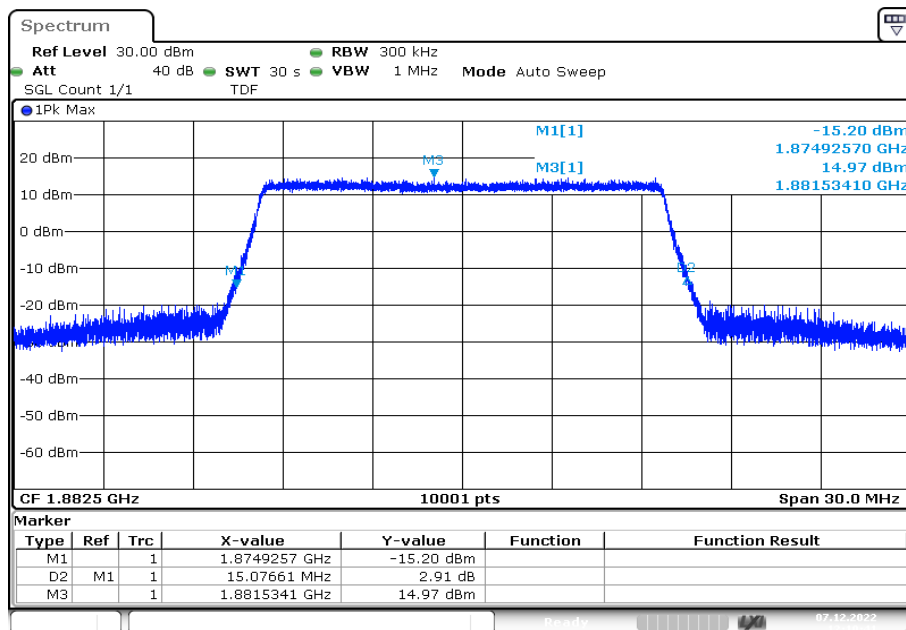
Date: 7.DEC.2022 12:07:22

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



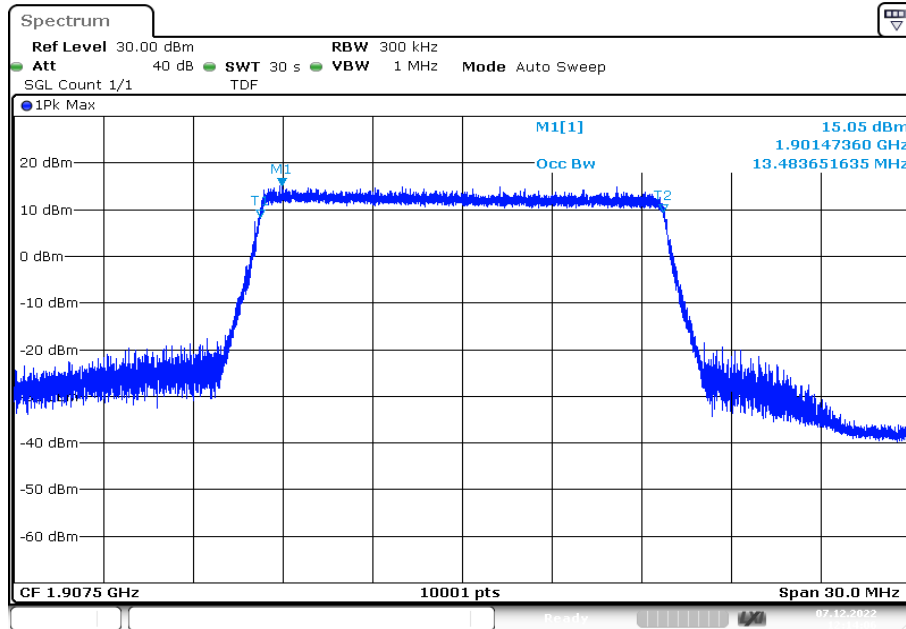
Date: 7.DEC.2022 12:10:08

Plot 100: 15 MHz – 64-QAM - middle channel (-26 dBc BW)



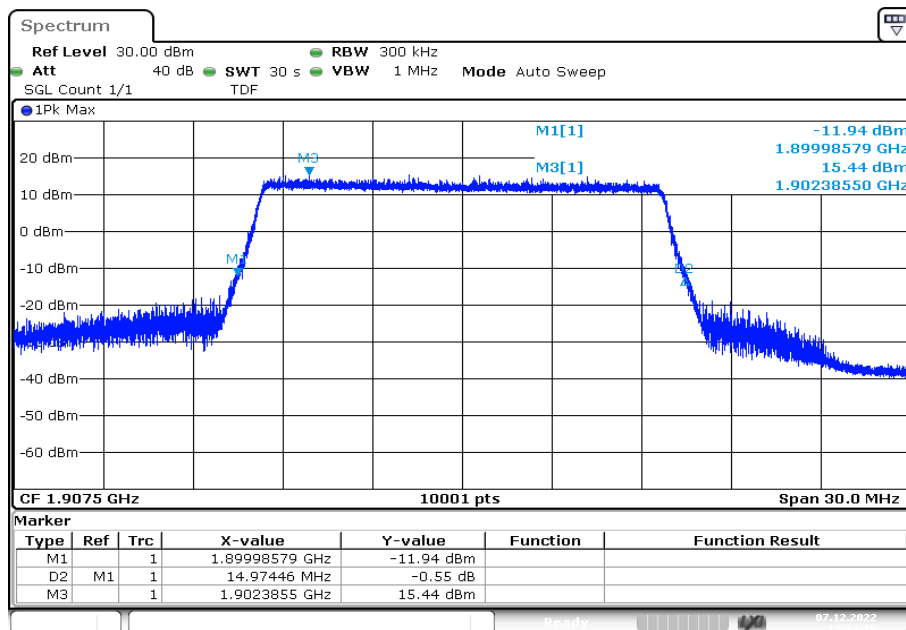
Date: 7.DEC.2022 12:10:41

Plot 101: 15 MHz – 64-QAM - highest channel (99% - OBW)



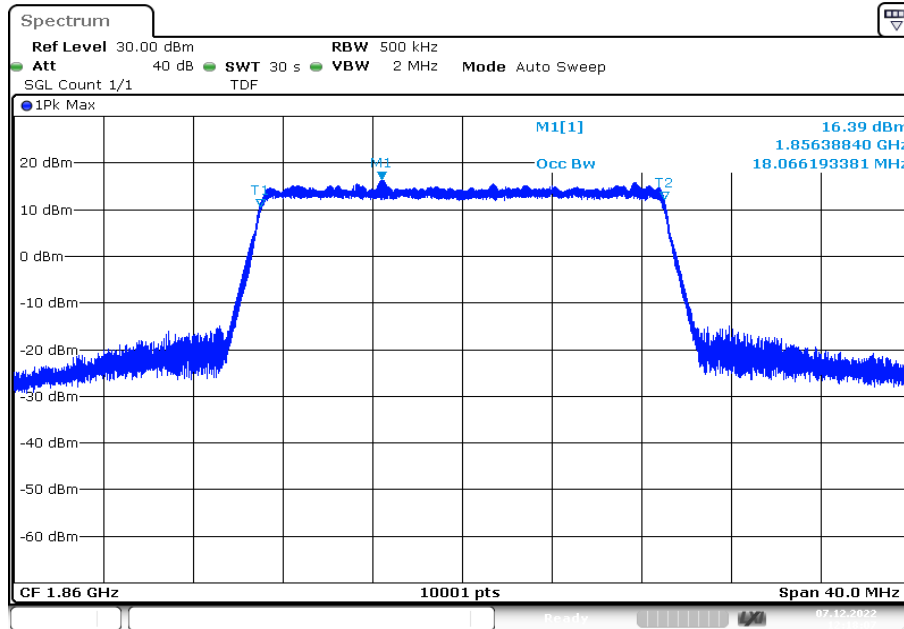
Date: 7.DEC.2022 12:14:06

Plot 102: 15 MHz – 64-QAM - highest channel (-26 dBc BW)



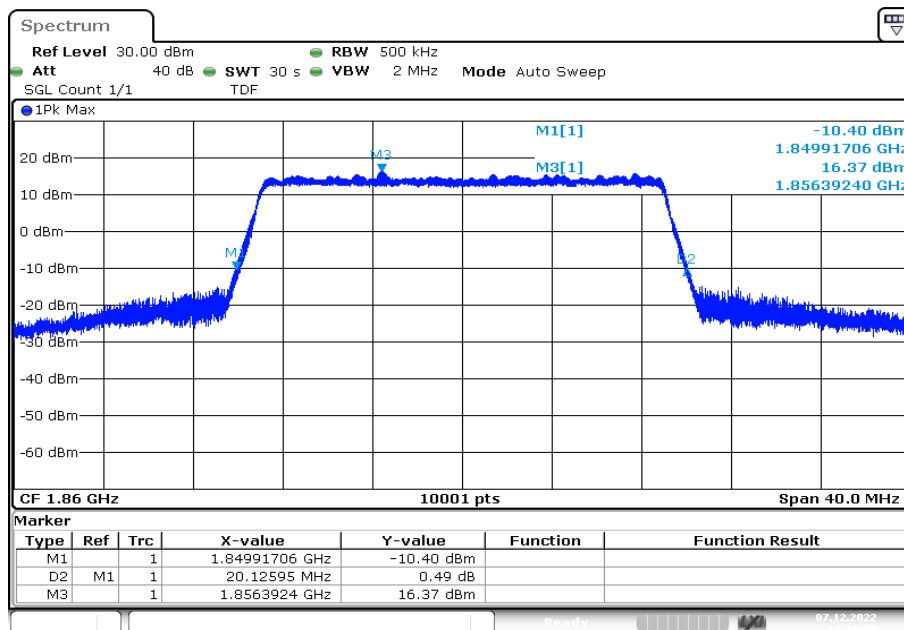
Date: 7.DEC.2022 12:14:39

Plot 103: 20 MHz – 64-QAM - lowest channel (99% - OBW)



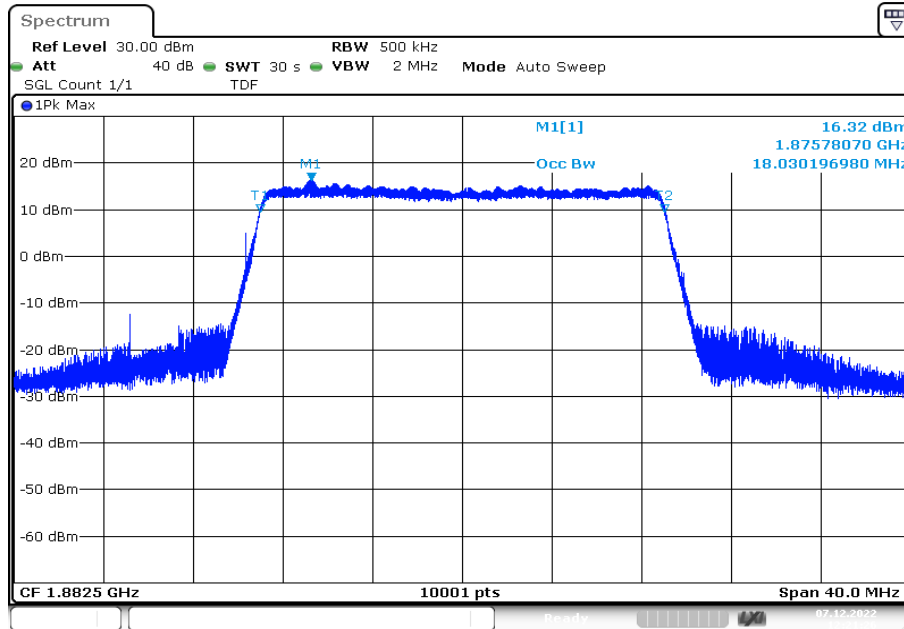
Date: 7.DEC.2022 12:18:08

Plot 104: 20 MHz – 64-QAM - lowest channel (-26 dBc BW)



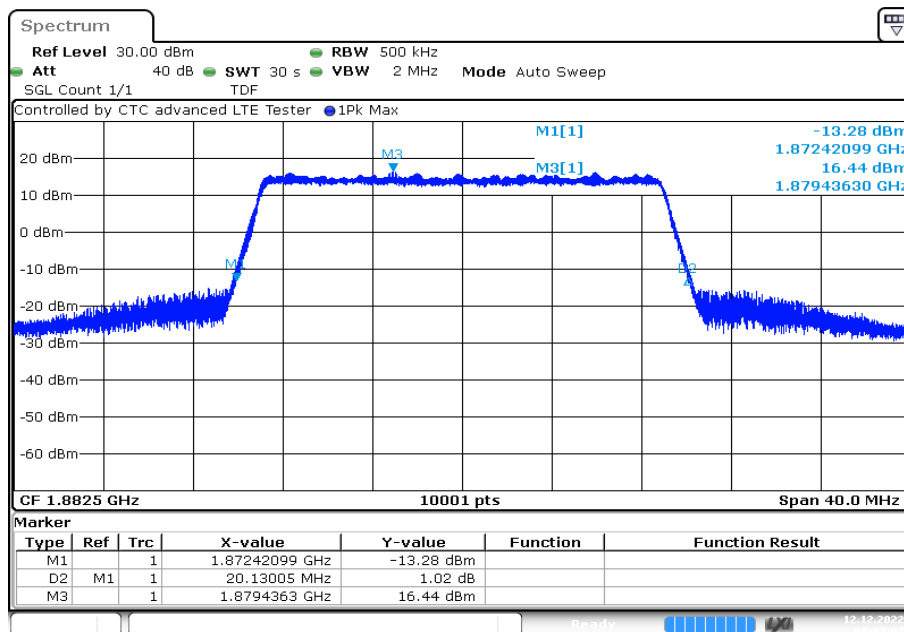
Date: 7.DEC.2022 12:18:41

Plot 105: 20 MHz – 64-QAM - middle channel (99% - OBW)



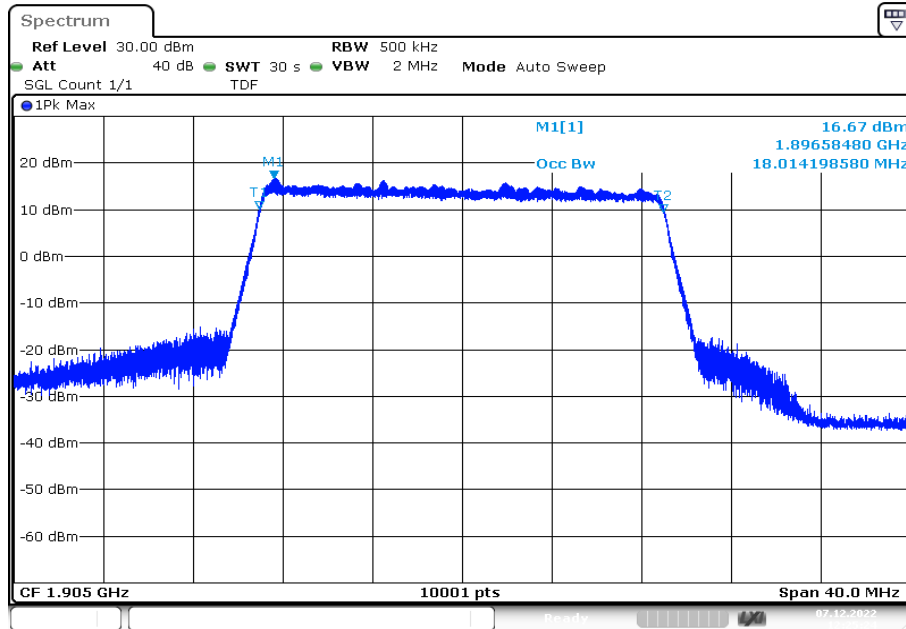
Date: 7.DEC.2022 12:21:26

Plot 106: 20 MHz – 64-QAM - middle channel (-26 dBc BW)

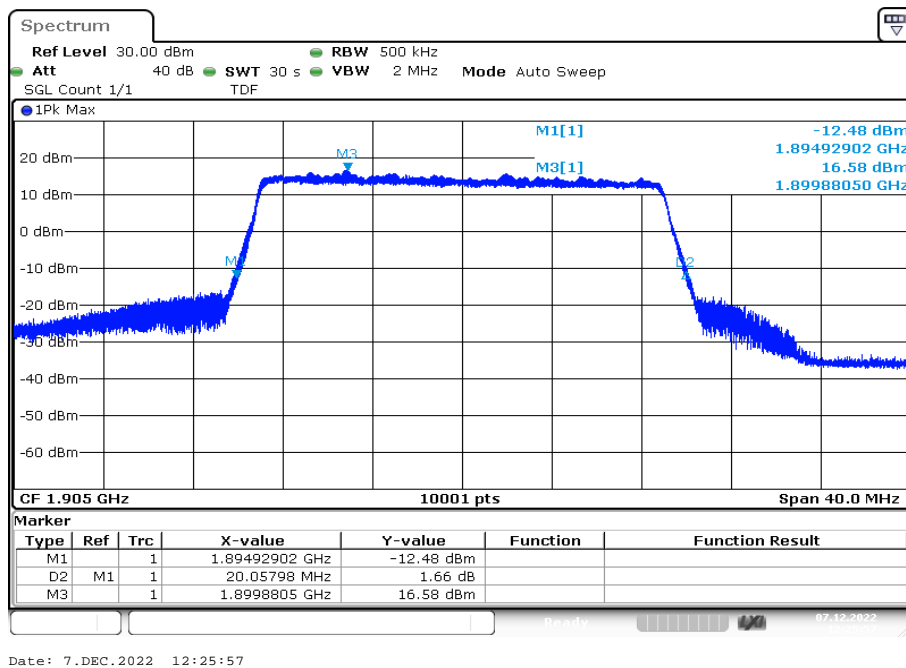


Date: 12.DEC.2022 08:37:07

Plot 107: 20 MHz – 64-QAM - highest channel (99% - OBW)



Plot 108: 20 MHz – 64-QAM - highest channel (-26 dBc BW)



13 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

14 Document history

Version	Applied changes	Date of release
-/-	Initial release	2023-01-16

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

first page	last page
 <p>The first page of the accreditation certificate includes the DAKKS logo, the name 'Deutsche Akkreditierungsstelle GmbH', and accreditation details for CTC advanced GmbH. It states that the laboratory is competent under DIN EN ISO/IEC 17025:2018 for telecommunication (FCC Requirements). The registration number is D-PL-12076-01-05, issued on 09.06.2020 in Frankfurt am Main.</p>	 <p>The last page of the certificate lists three office locations: Berlin, Frankfurt am Main, and Braunschweig. It also contains a disclaimer about the publication of extracts, a note on the scope of accreditation, and information about the accreditation body (DAKKS) and its recognition by international agreements (EA, IAF, ILAC).</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