

Annex 1: Measurement diagrams 21-1-0120702T01a-A1

Number of pages:	110	Date of Report:	2022-Sep-20
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	ARESIS srl
Product: Model:	Tank Level Probing Radar ScanBrick® W		
FCC ID:	2A7GA-SCANBRICKW	IC:	28648-SCANBRICKW
Testing has been carried out in accordance with:	FCC Regulations Title 47 CFR, Chapter I, Subchapter A, Part 15.31(q) Subpart C Intentional Radiators § 15.207 Conducted limits § 15.209 Radiated emission limits ISED-Regulations Radio Standards Specification RSS-Gen, Issue 5 + A1 + A2 RSS-211, Issue 1 (March 2015) General Requirements for Compliance of Radio Apparatus Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".		

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1 Measurement diagrams

1.1 Emission measurements, §15.209 / RSS-Gen.

1.1.1 Magnetic field strength measurements

2.01a_RSE_TX_9kHz_30MHz_standing

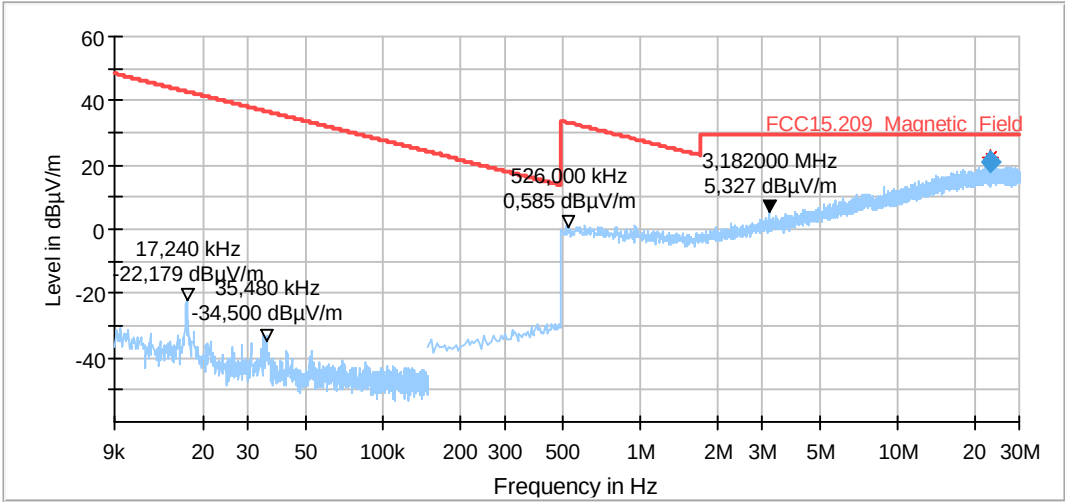
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Lor
Operating Mode:	TX-on (CW-Mode)
Power during tests:	120V/60Hz, full loaded batteries
Comment 1:	Channel low/middle/high
Comment 2:	
Environmental Conditions::	Humidity : 59%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed
Comment:	

EUT Information

PMT number:	21-1-01207S02_C01
Manufacturer:	ARESYS srl
Product:	Tank Level Probing Radar
Model:	ScanBrick® W
-----	-----
HW version:	1.1.0
SW version:	2,1
SVN:	
Config:	
Serial number:	N/A
Connected Interfaces:	--
Power Supply:	120V AC / 60Hz
Comments:	also WLAN Router included in set-up

Full Spectrum



2.01b_RSE_TX_9kHz_30MHz_laying

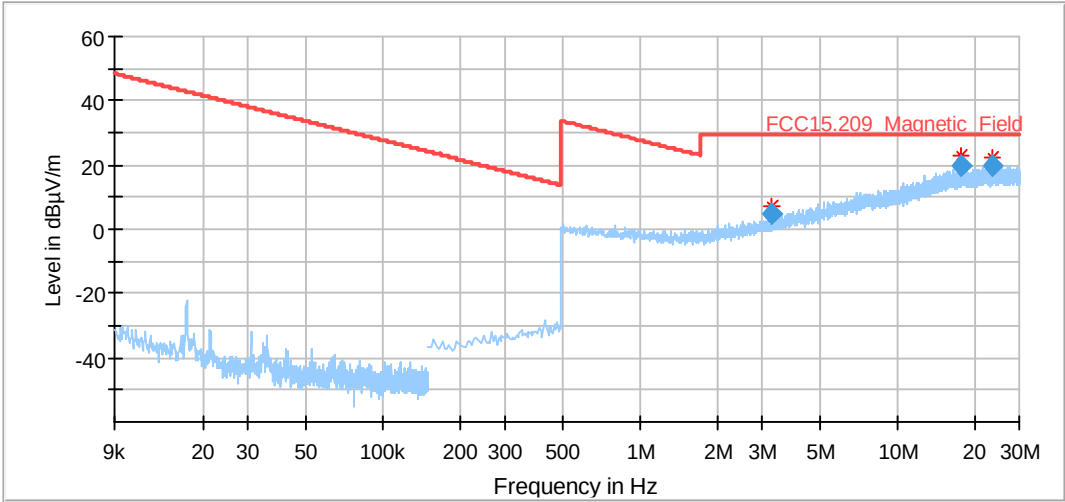
Common Information

Test Description:	Magnetic Field Strength Measurement related to 30/300 m distance
Test Site Location:	Ref.-Nr. 441 Semi Anechoic Chamber (SAC1) with 3 m measurement distance
Version of Testsoftware:	EMC32 V10.50.0
Distance correction:	used accord. table, pls. see test report
Technical Data:	Please see page 2 for detailed data of measurement setup
Rec. antenna (pre-scan):	height 1.00 m, parallel and 90° to EUT polarisation
Used Filter:	bypass
Test Standard:	FCC 15.205 § 15.209; RSS-Gen: Issue 5
Operator:	Lor
Operating Mode:	TX-on (CW-Mode)
Power during tests:	120V/60Hz, full loaded batteries
Comment 1:	Channel low/middle/high (CW-Mode)
Environmental Conditions::	Humidity : 59%rH; Temperature: 21°C
EUT Setup:	1
Verdict:	Passed
Comment:	EUT laying

EUT Information

PMT number:	21-1-01207S02_C01
Manufacturer:	ARESYS srl
Product:	Tank Level Probing Radar
Model:	ScanBrick® W
-----	-----
HW version:	1.1.0
SW version:	2,1
SVN:	
Config:	
Serial number:	N/A
Connected Interfaces:	--
Power Supply:	120V AC / 60Hz
Comments:	also WLAN Router included in set-up

Full Spectrum



1.1.2 Electrical field strength measurements ($f < 1\text{GHz}$)

3.01_RSE_TX_30M_1GHz_EUT_laying

Common Information

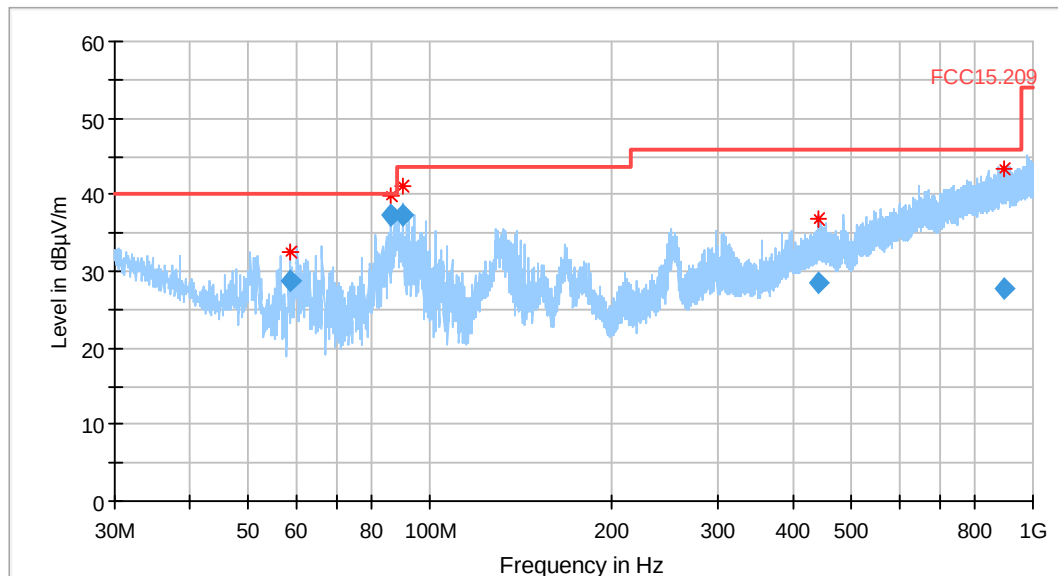
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions::	Humidity : 50%rH; Temperature: 22°C
Operator Name:	Lor
EUT:	21-1-01207S02_C01
Operating Mode:	CW Mode (Op.Mode1)
Power supply:	120V AC / 60Hz
Comment:	Channel no. nominal
Verdict:	Passed

EUT Information

PMT number:	21-1-01207S02_C01
Manufacturer:	ARESYS srl
Product:	Tank Level Probing Radar
Model:	ScanBrick® W
-----	-----
HW version:	1.1.0
SW version:	2,1
SVN:	
Config:	--
Serial number:	N/A
Connected Interfaces:	--
Power Supply:	120 V AC
Comments:	

Full Spectrum

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
58.725000	28.81	40.00	11.19	120.000	134.0	V	0.0	8.6	0.0	0.7
86.045000	37.37	40.00	2.63	120.000	368.0	H	170.0	7.7	0.0	0.9
90.325000	37.23	43.50	6.27	120.000	368.0	H	166.0	7.9	0.0	0.9
440.875000	28.53	46.00	17.47	120.000	200.0	H	331.0	20.0	0.0	2.2
894.325000	27.76	46.00	18.24	120.000	173.0	H	112.0	27.2	0.0	3.5

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
58.725000	7.9	20.2	14:56:27 - 04.07.2022
86.045000	6.8	29.7	14:35:29 - 04.07.2022
90.325000	7.0	29.4	14:50:46 - 04.07.2022
440.875000	17.8	8.5	14:40:28 - 04.07.2022
894.325000	23.7	0.6	14:45:56 - 04.07.2022

3.02b_RSE_TX_30M_1GHz_EUT_Standing

Common Information

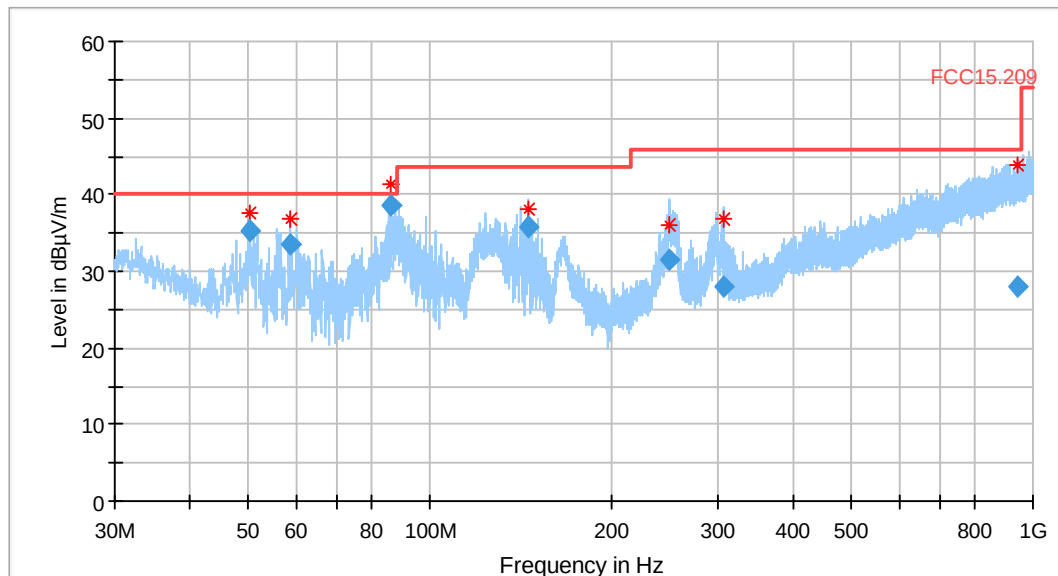
Test Description:	Radiated field strength emission in 3m distance
Test Site:	CETECOM GmbH Essen
Test Standard:	FCC 15.205&15.209 & RSS Gen. Issue 5
Antenna polarisation:	horizontal/vertical
Environmental Conditions::	Humidity :50.2%rH; Temperature: 22°C
Operator Name:	Lor
EUT:	21-1-01207S02_C01
Operating Mode:	CW Mode (Op.Mode1)
Power supply:	120V AC / 60Hz
Comment:	Channel no. nominal
Verdict:	Passed

EUT Information

PMT number:	21-1-01207S02_C01
Manufacturer:	ARESYS srl
Product:	Tank Level Probing Radar
Model:	ScanBrick® W
-----	-----
HW version:	1.1.0
SW version:	2,1
SVN:	
Config:	--
Serial number:	N/A
Connected Interfaces:	--
Power Supply:	120 V AC
Comments:	

Full Spectrum

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Sig Path (dB)	Preamp (dB)
50.445000	35.40	40.00	4.60	120.000	109.0	V	64.0	11.9	0.0	0.7
58.725000	33.63	40.00	6.37	120.000	105.0	V	77.0	8.6	0.0	0.7
86.045000	38.56	40.00	1.44	120.000	368.0	H	338.0	7.7	0.0	0.9
145.235000	35.74	43.50	7.76	120.000	105.0	V	39.0	8.0	0.0	1.1
249.035000	31.46	46.00	14.54	120.000	109.0	V	356.0	13.0	0.0	1.6
307.045000	28.02	46.00	17.98	120.000	122.0	H	76.0	15.4	0.0	1.8
942.003000	27.90	46.00	18.10	120.000	248.0	V	114.0	27.4	0.0	3.4

(continuation of the "Final_Result" table from column 18 ...)

Frequency (MHz)	Trd Corr. (dB/m)	Raw Rec (dBμV)	Comment
50.445000	11.2	23.5	13:53:13 - 04.07.2022
58.725000	7.9	25.1	14:03:23 - 04.07.2022
86.045000	6.8	30.9	13:42:40 - 04.07.2022
145.235000	6.9	27.8	13:58:07 - 04.07.2022
249.035000	11.4	18.5	13:47:53 - 04.07.2022
307.045000	13.6	12.6	13:38:06 - 04.07.2022
942.003000	23.9	0.5	14:08:41 - 04.07.2022

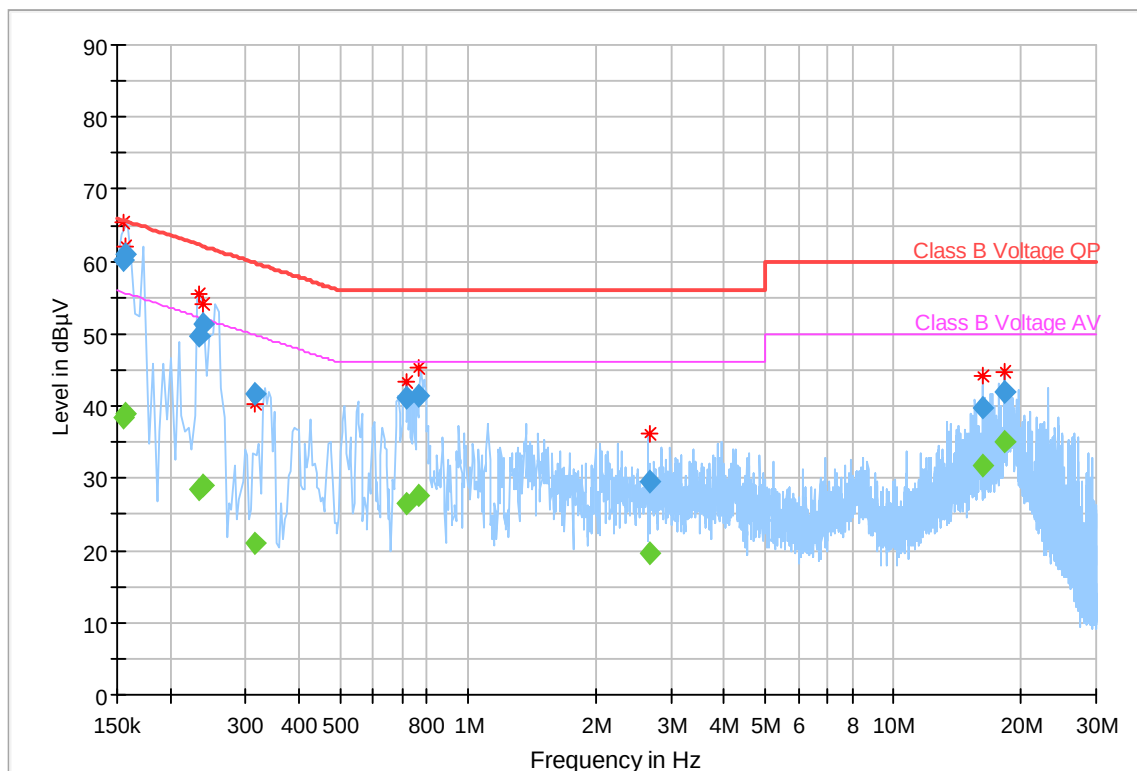
1.2 Conducted emissions, §15.207 / RSS-Gen.

1.01_EMI_AC_120V_AC_60Hz_Op1_TX_Mode

Common Information

Test Description:	Conducted Voltage Measurement
Test Site Location:	Conducted Emission, CETECOM GmbH Essen
Test Software:	R&S EMC32 v9.15
Test Standard:	FCC 15.207 , RSS-Gen., Issue 5
Operating Mode:	TX-Mode, CW-Mode Carrier Mode
Measured on line:	N/L1
Diagram details:	Shows the peak values as a sum of measured ports in maxhold mode
Environmental Conditions:	Humidity: 59%rH; Temperature: 20.7°C
Operator:	Lor
EUT Setup:	1
Verdict:	Passed

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Correction (dB)
0.155000	---	38.44	55.73	17.29	1000.0	9.000	L1	GND	0.1
0.155000	60.22	---	65.73	5.51	1000.0	9.000	L1	GND	0.1
0.155938	---	38.85	55.68	16.83	1000.0	9.000	L1	GND	0.1
0.155938	61.01	---	65.68	4.67	1000.0	9.000	L1	GND	0.1
0.234531	---	28.54	52.29	23.75	1000.0	9.000	L1	GND	0.1
0.234531	49.66	---	62.29	12.63	1000.0	9.000	L1	GND	0.1
0.237969	---	29.11	52.17	23.06	1000.0	9.000	N	GND	0.1
0.237969	51.35	---	62.17	10.82	1000.0	9.000	N	GND	0.1
0.315000	41.55	---	59.84	18.29	1000.0	9.000	L1	GND	0.1
0.315000	---	20.96	49.84	28.88	1000.0	9.000	L1	GND	0.1
0.718906	41.01	---	56.00	14.99	1000.0	9.000	L1	GND	0.2
0.718906	---	26.51	46.00	19.49	1000.0	9.000	L1	GND	0.2
0.762500	---	27.61	46.00	18.39	1000.0	9.000	N	GND	0.1
0.762500	41.33	---	56.00	14.67	1000.0	9.000	N	GND	0.1
2.661406	---	19.59	46.00	26.41	1000.0	9.000	N	GND	0.3
2.661406	29.41	---	56.00	26.59	1000.0	9.000	N	GND	0.3
16.230625	---	31.78	50.00	18.22	1000.0	9.000	N	GND	0.7
16.230625	39.72	---	60.00	20.28	1000.0	9.000	N	GND	0.7
18.241250	---	34.97	50.00	15.03	1000.0	9.000	N	GND	0.8
18.241250	42.09	---	60.00	17.91	1000.0	9.000	N	GND	0.8

1.3 Emission measurements §15.209/ RSS-Gen. (above 1GHz)

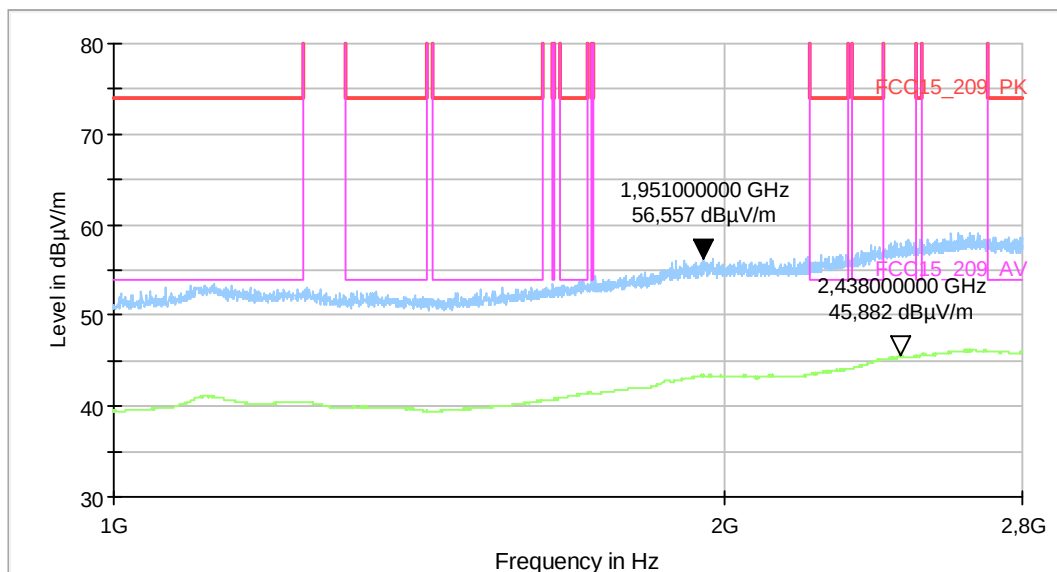
1.3.1 Emission measurements (1GHz < f < 2.8GHz)

D127_01_T01_TX_RSE_1G- 2.8GHz_EUT_00_TT_0-360_Ant_H+V

Common Information

Test Description:	Radiated Filed Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209C
Operating Mode:	Operator, please fill in the operating mode
Environmental Conditions:	Humidity: 42%rH; Temperature: 21°C
Operator:	Setup:1 (CW-Mode)
Verdict:	Passed

Full Spectrum

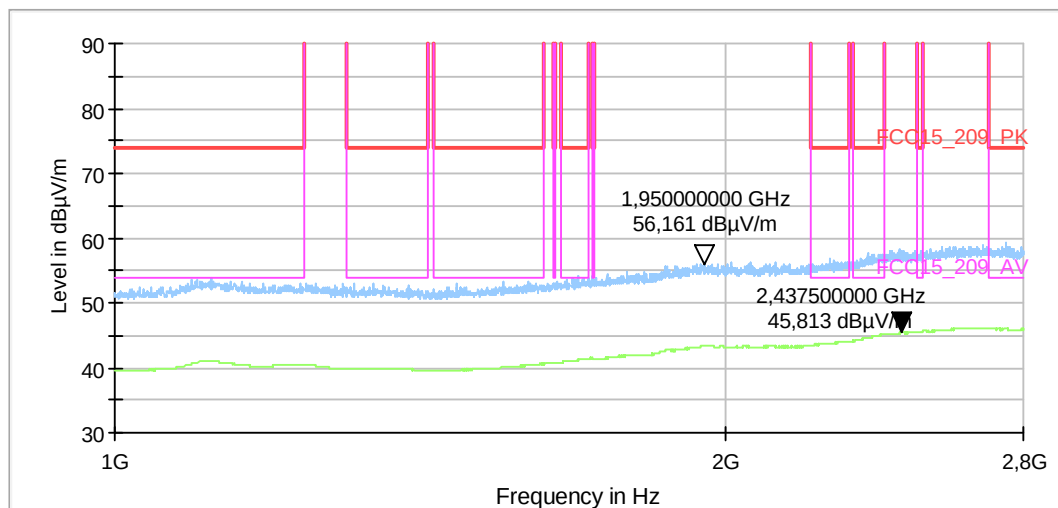


D127_04_T01_TX_RSE_1G- 2.8GHz_EUT_90_TT_0-360_Ant_H+V

Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	FCC 15.209C
Operating Mode:	CW-Mode
Environmental Conditions:	Humidity: 54%rH; Temperature: 22°C
Operator:	Setup:1 (CW-Mode)
Verdict:	Passed

Full Spectrum



1.3.2 Emission measurements (2.8GHz < f < 15GHz)

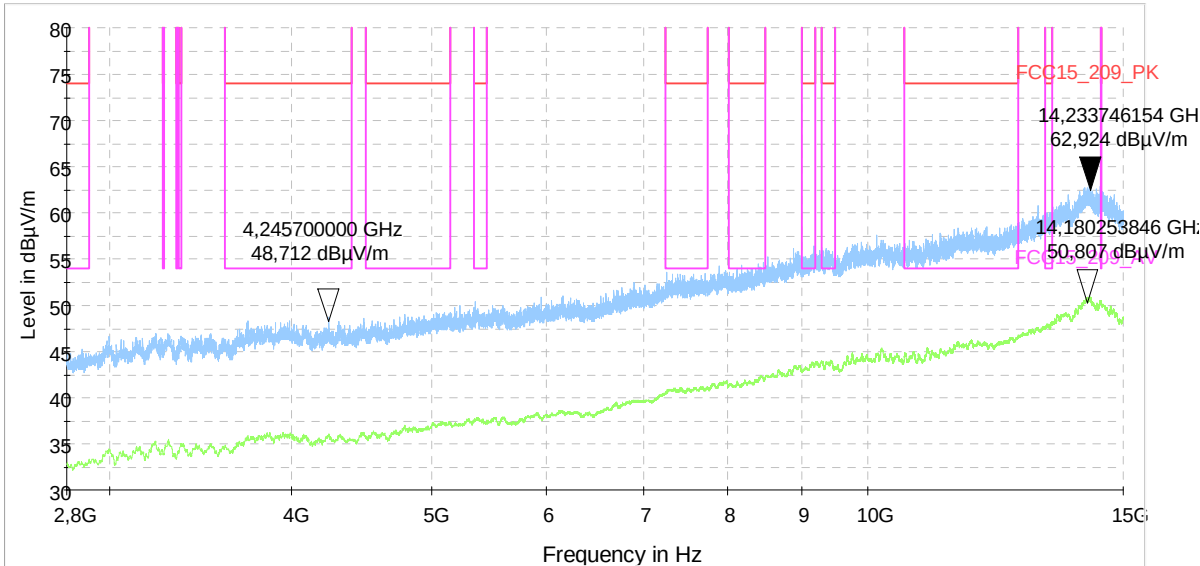
D127_07

Common Information

Test Description:	Radiated Spurious Emission
Operating Conditions:	humidity: 54%, temperature: 21°C
Operator Name:	Aho
Test Standard:	FCC §15.209/RSS-Gen., Issue 5
EUT position:	Standing (90°)

EUT Information

PMT Sample Nr.	21-1-01207S02_C01
Serial number:	-



Critical_Freqs: none

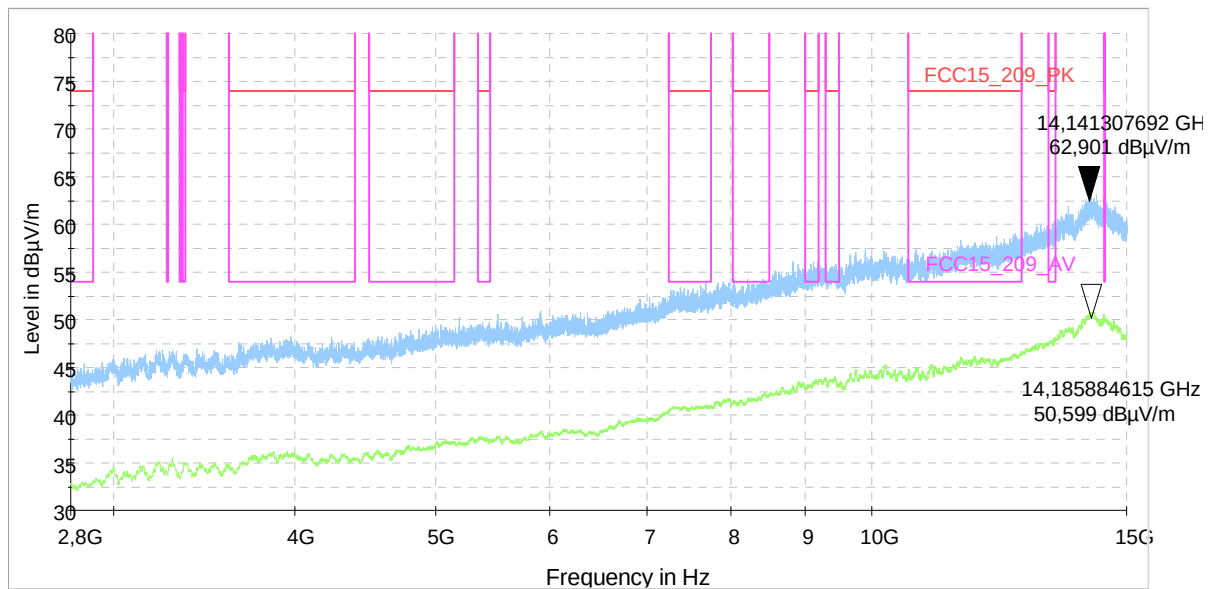
D127_08

Common Information

Test Description:	Radiated Spurious Emission
Operating Conditions:	humidity: 54%, temperature: 21°C
Operator Name:	Aho
Test Standard:	FCC §15.209/RSS-Gen., Issue 5
EUT position:	Laying (0°)

EUT Information

PMT Sample Nr.	21-1-01207S02_C01
Serial number:	-



Critical_Freqs: none

1.3.3 Emission measurements (15GHz < f < 18GHz)

D127_03_T01_TX_RSE_15G_18GHz_EUT_0_TT_0-360_Ant_H+V

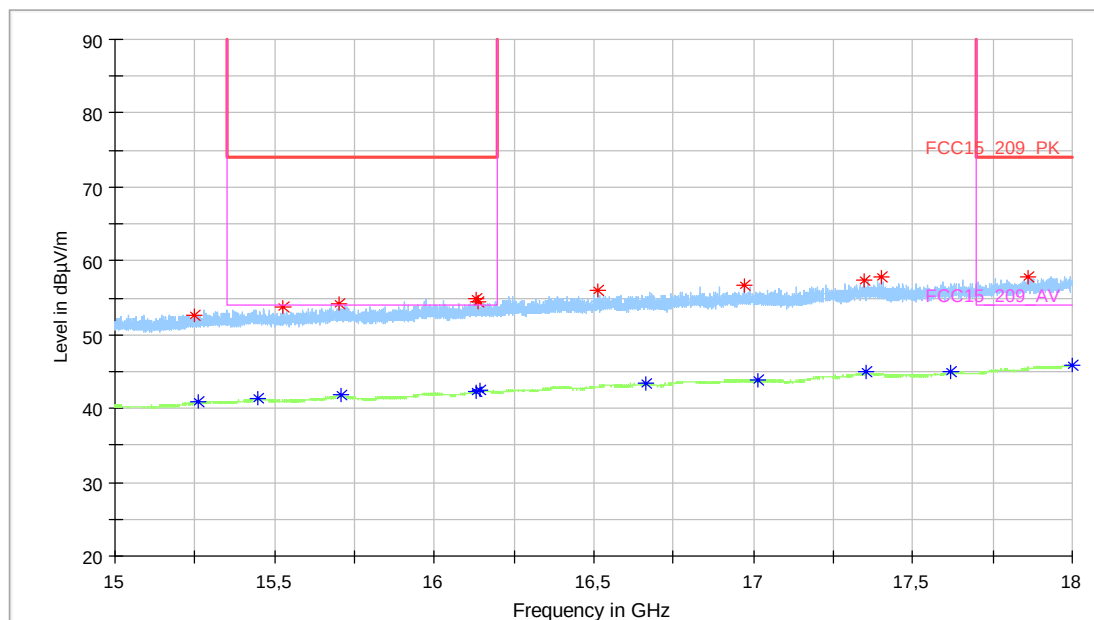
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	15.209
Operating Mode:	RADAR, Op.Mode 1 (CW)
Equipment Class:	--
Environmental Conditions:	Humidity: 54%rH; Temperature: 22°C
Operator:	Aho
Verdict:	Passed

EUT Information

PMT Sample Nr.	21-1-01207S02_C01
Serial number:	-

Full Spectrum



Critical_Freqs

None

D127_06_T01_TX_RSE_15G_18GHz_EUT_90_TT
_0-360_Ant_H+V

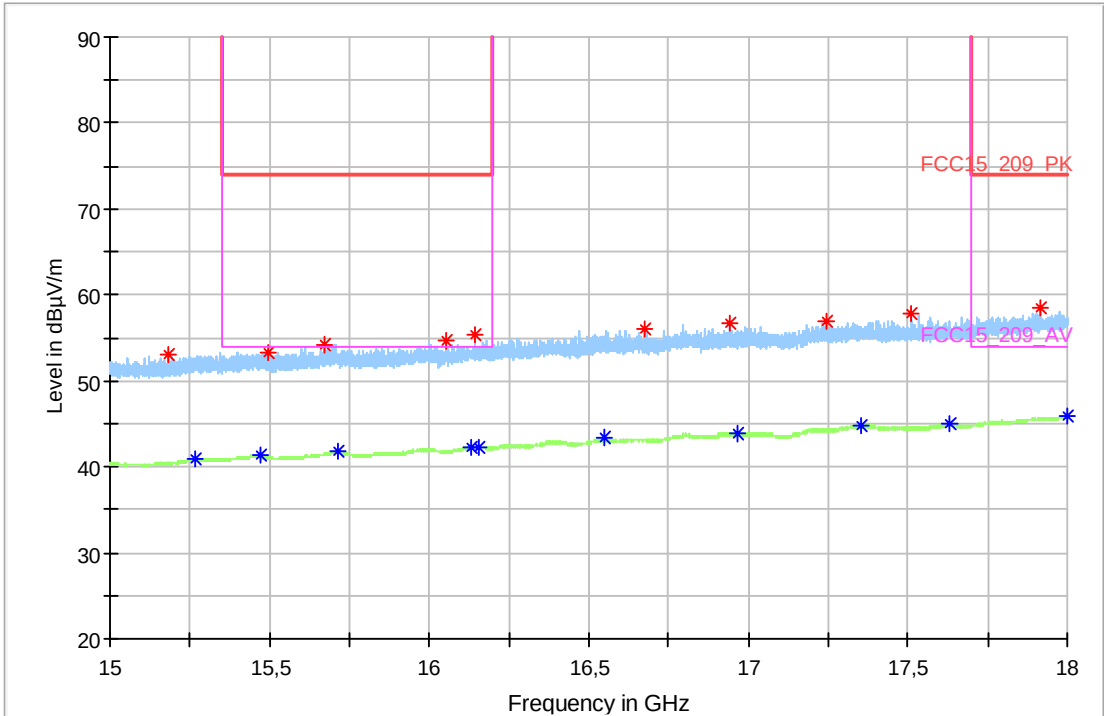
Common Information

Test Description:	Radiated Field Strength Emission@3m distance
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Room (FAR2)
Test Standard:	15.209
Operating Mode:	RADAR, Op.Mode 1 (CW-Mode)
Equipment Class:	--
Environmental Conditions:	Humidity: 54%rH; Temperature: 22°C
Operator:	Aho
Verdict:	Pass

EUT Information

PMT Sample Nr.	21-1-01207S02_C01
Serial number:	-

Full Spectrum

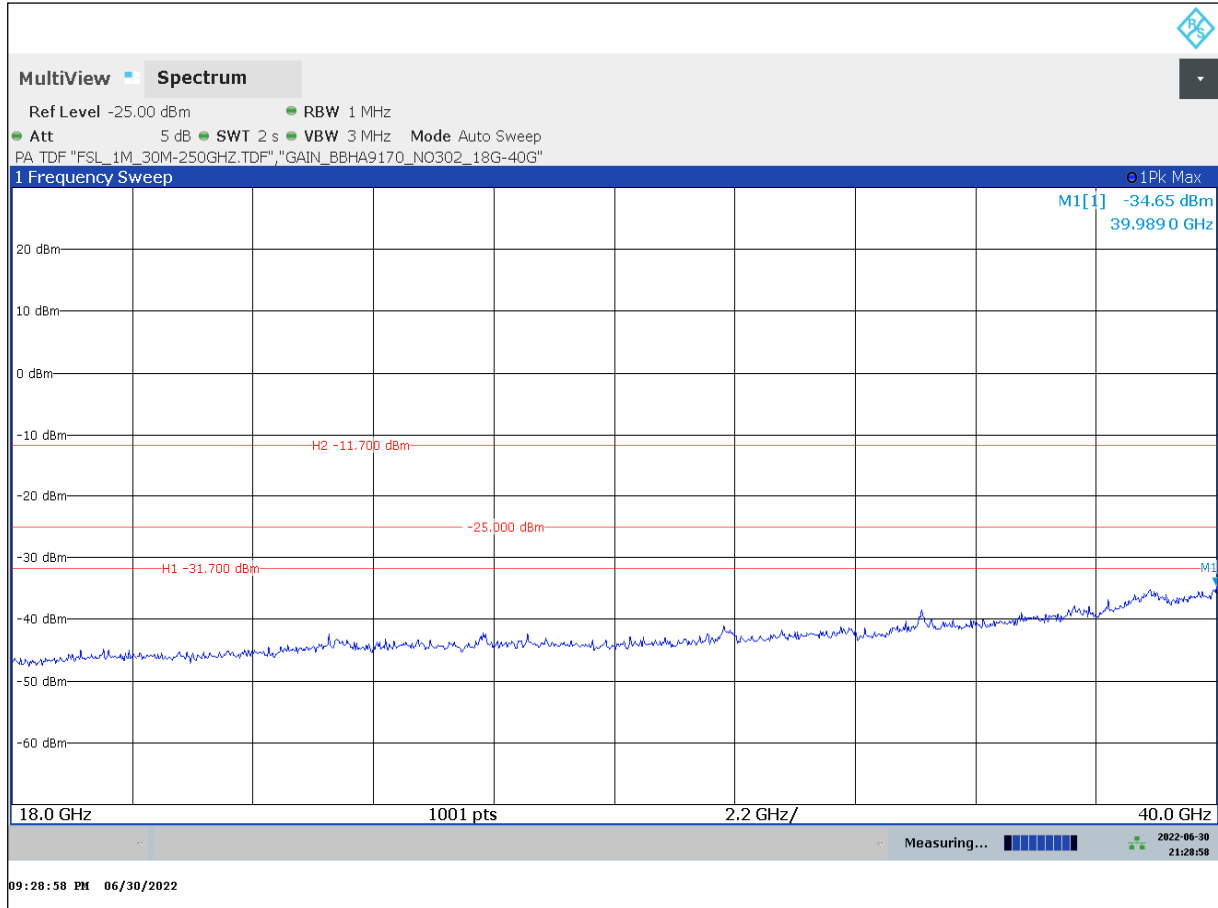


Critical_Freqs

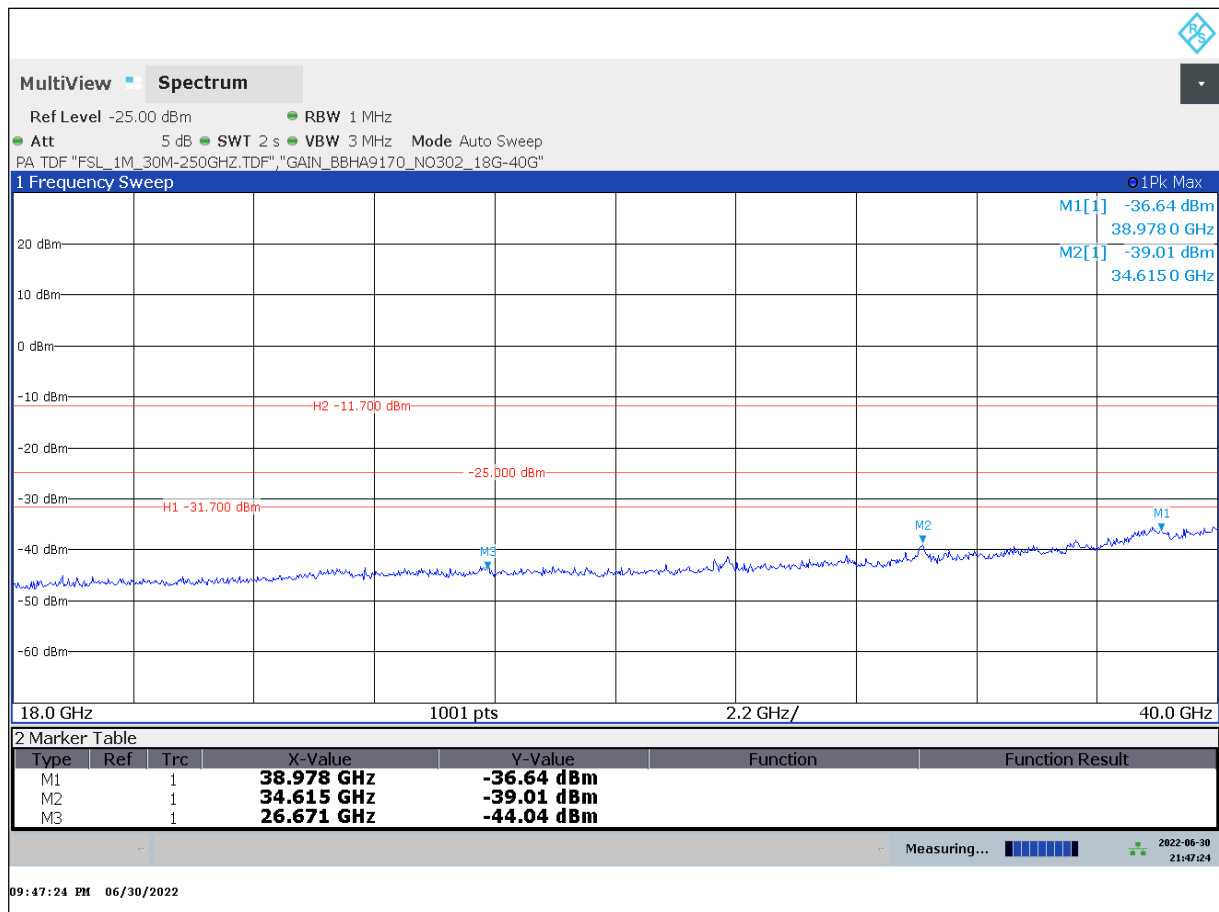
-none.-

1.3.4 Emission measurements ($18\text{GHz} < f < 40\text{GHz}$)

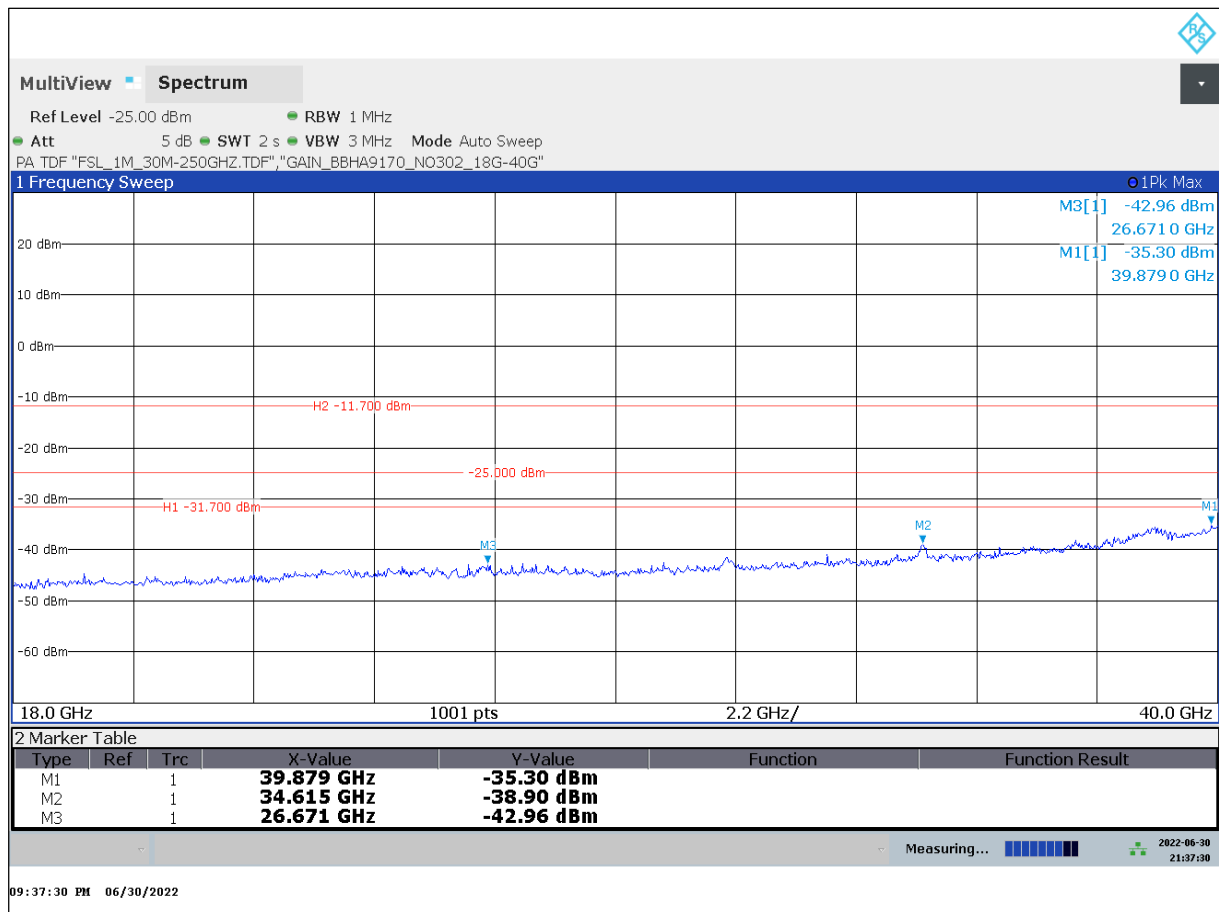
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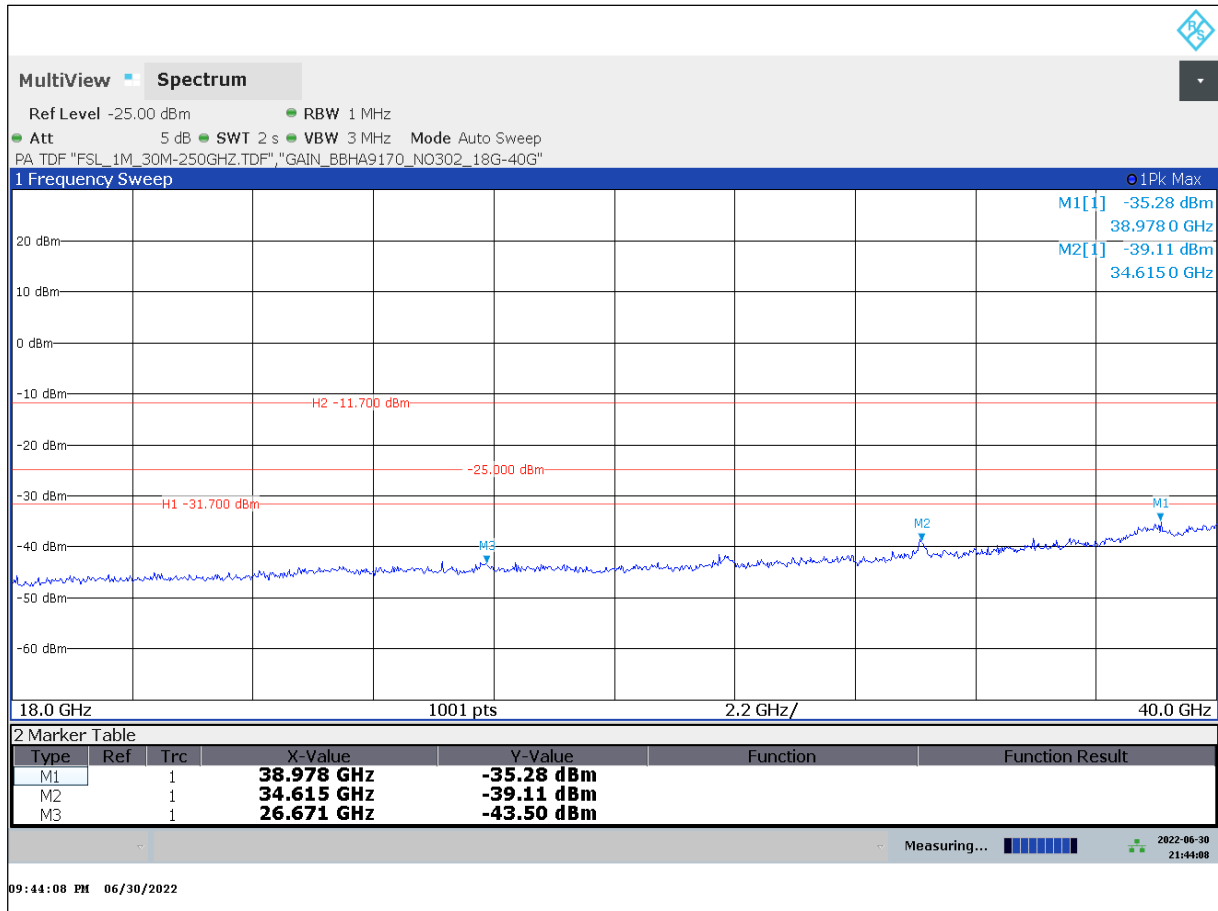
D129_02_T01_TX_RSE_18G_40GHz_EUT_0_Ant_H



D130_01_T01_TX_RSE_18G_40GHz_EUT_90_Ant_V



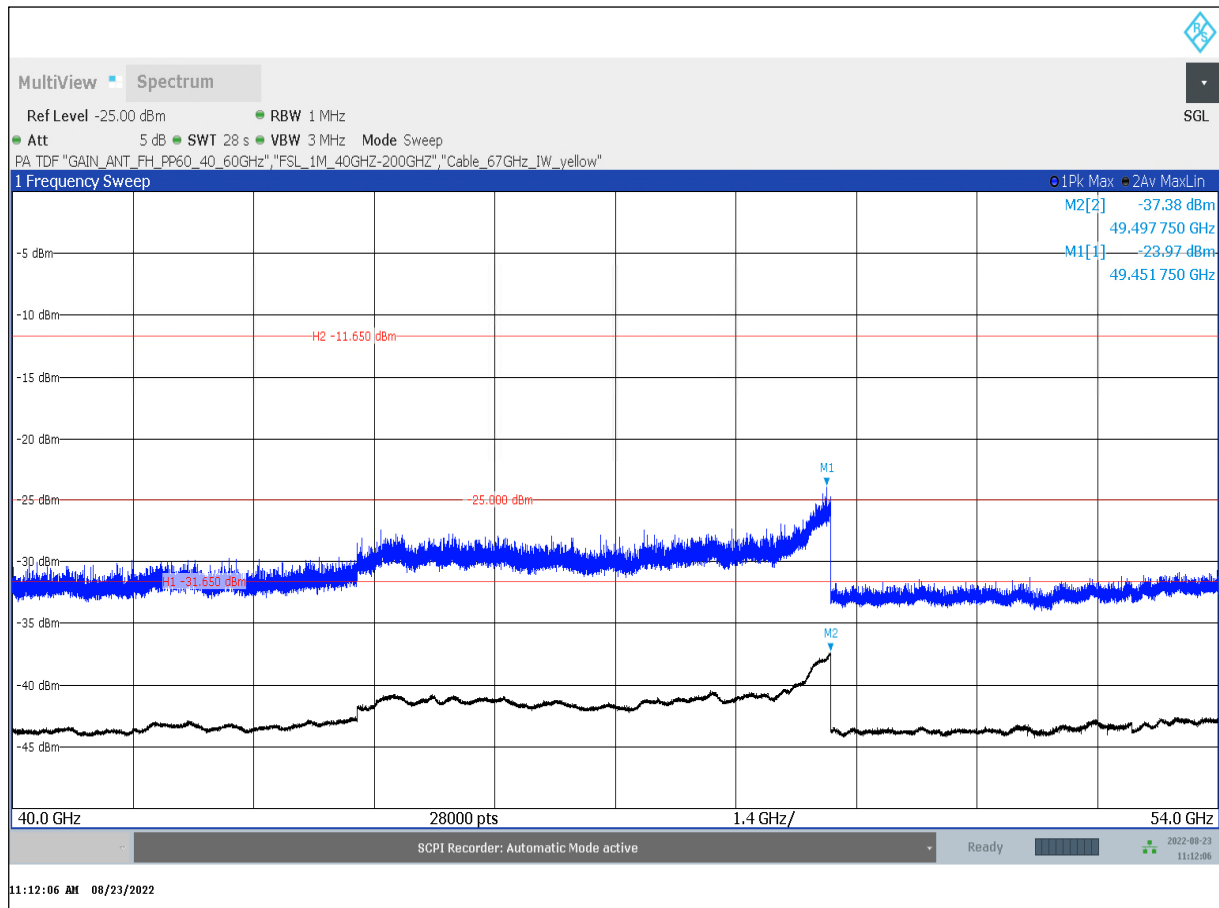
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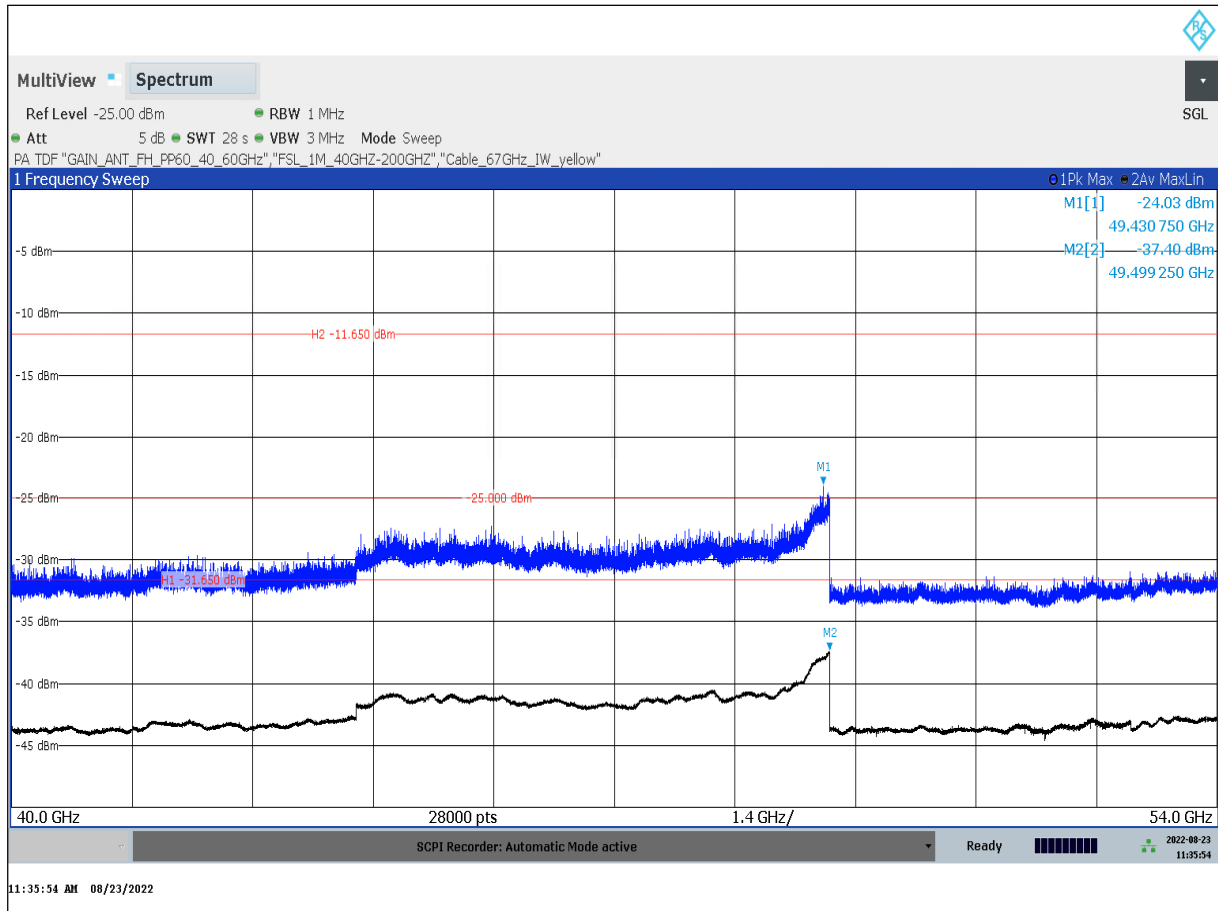
1.3.5 Emission measurements ($40\text{GHz} < f < 54\text{GHz}$)

$d_{\text{meas}}=1\text{m}$

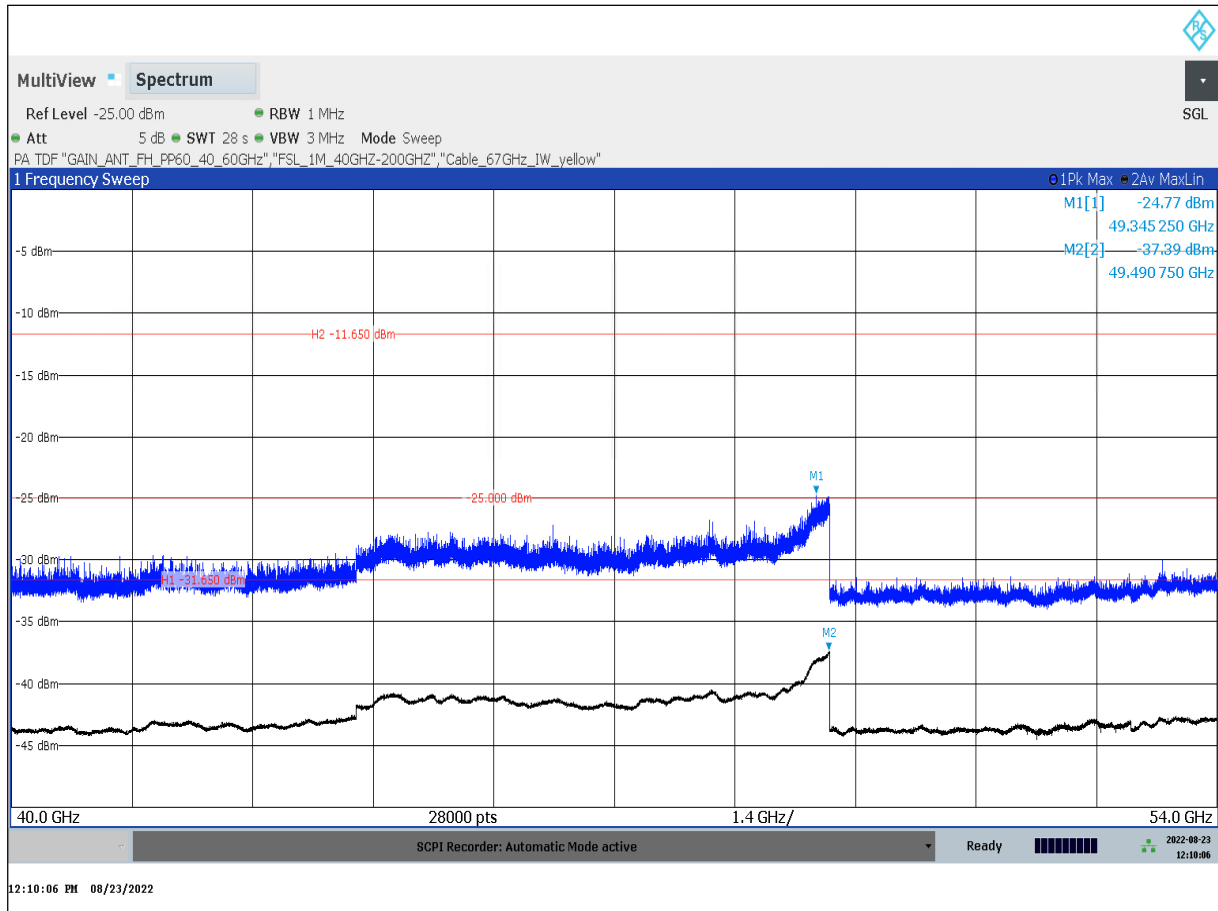
D133_01b_T01_TX_RSE_40_54GHz_EUT_0_AntH



D133_02b_T01_TX_RSE_40_54GHz_EUT_0_AntV

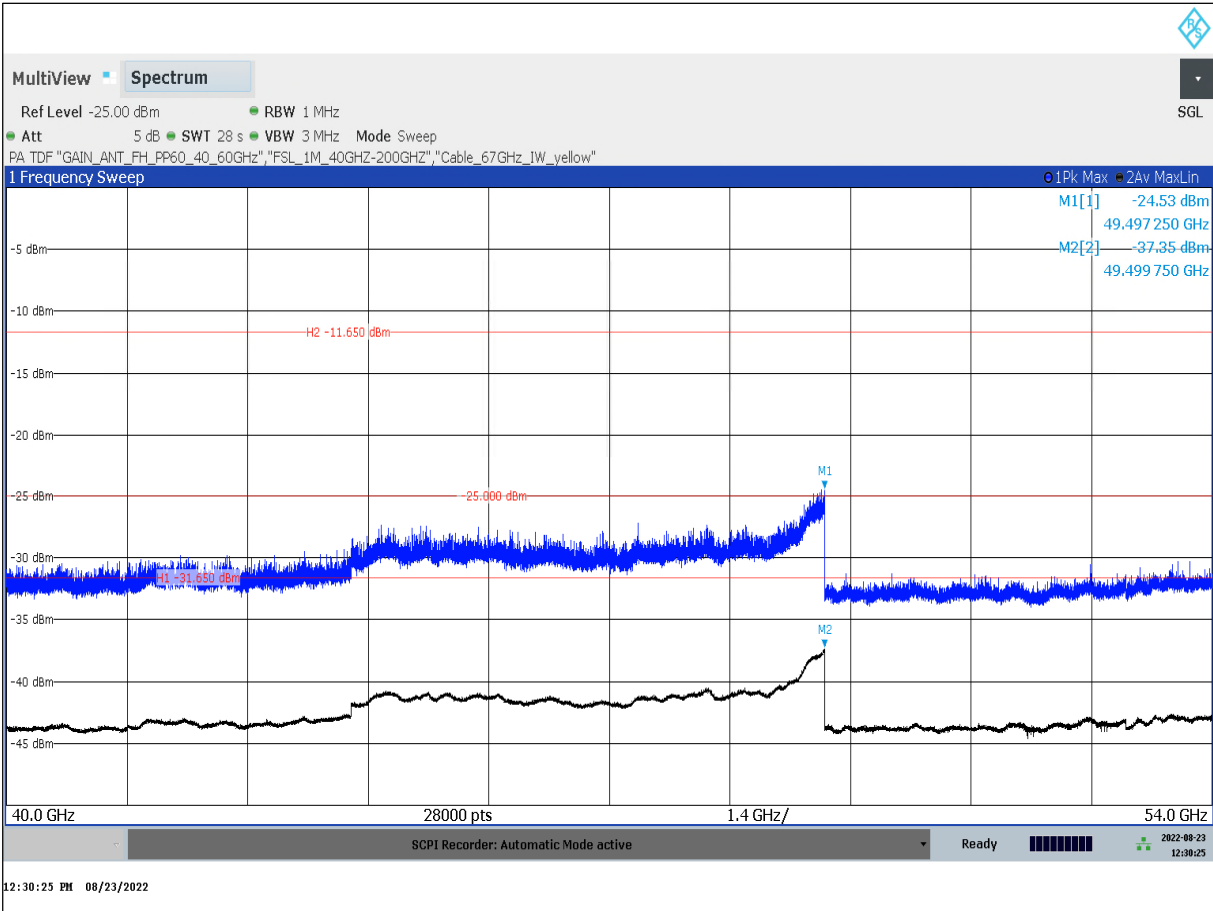


D133_03b_T01_TX_RSE_40_54GHz_EUT_90_AntV



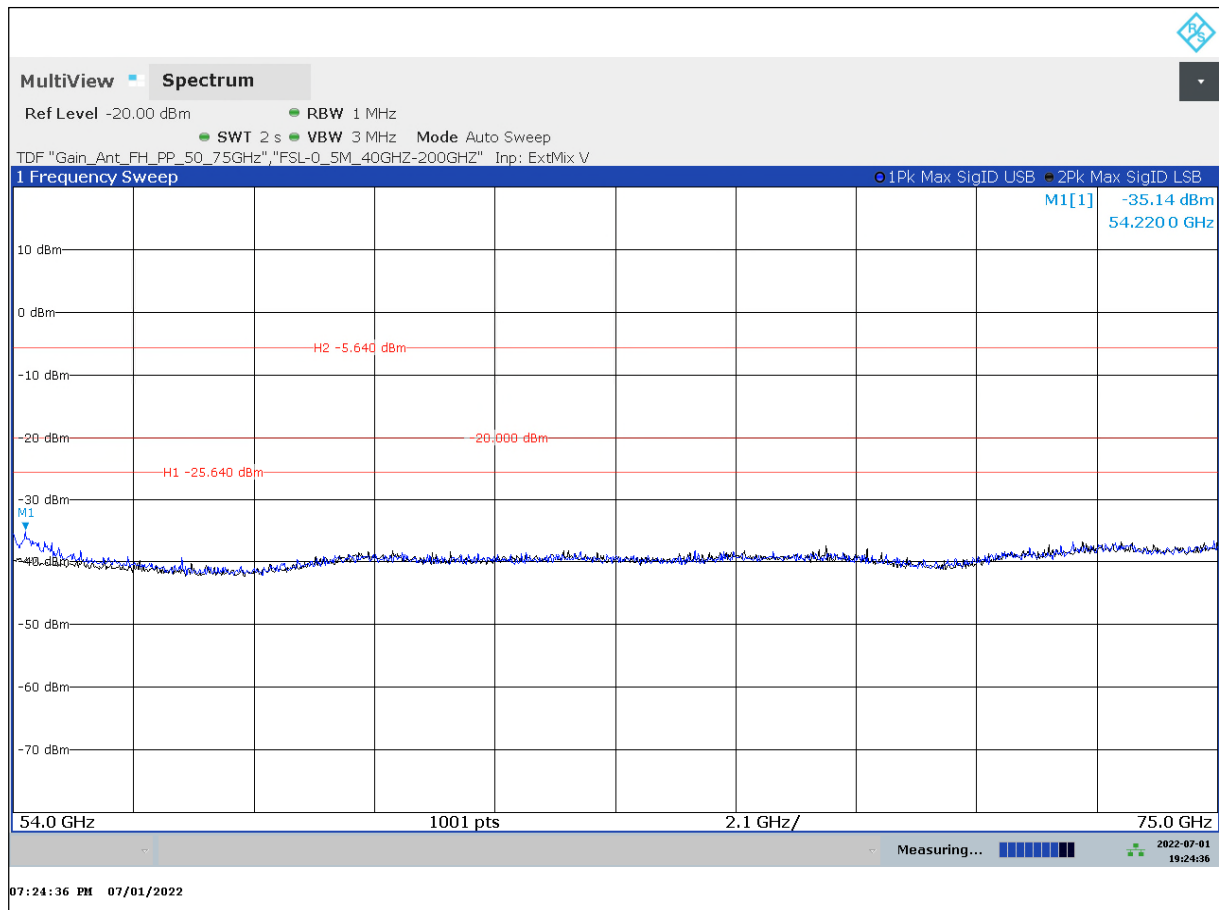


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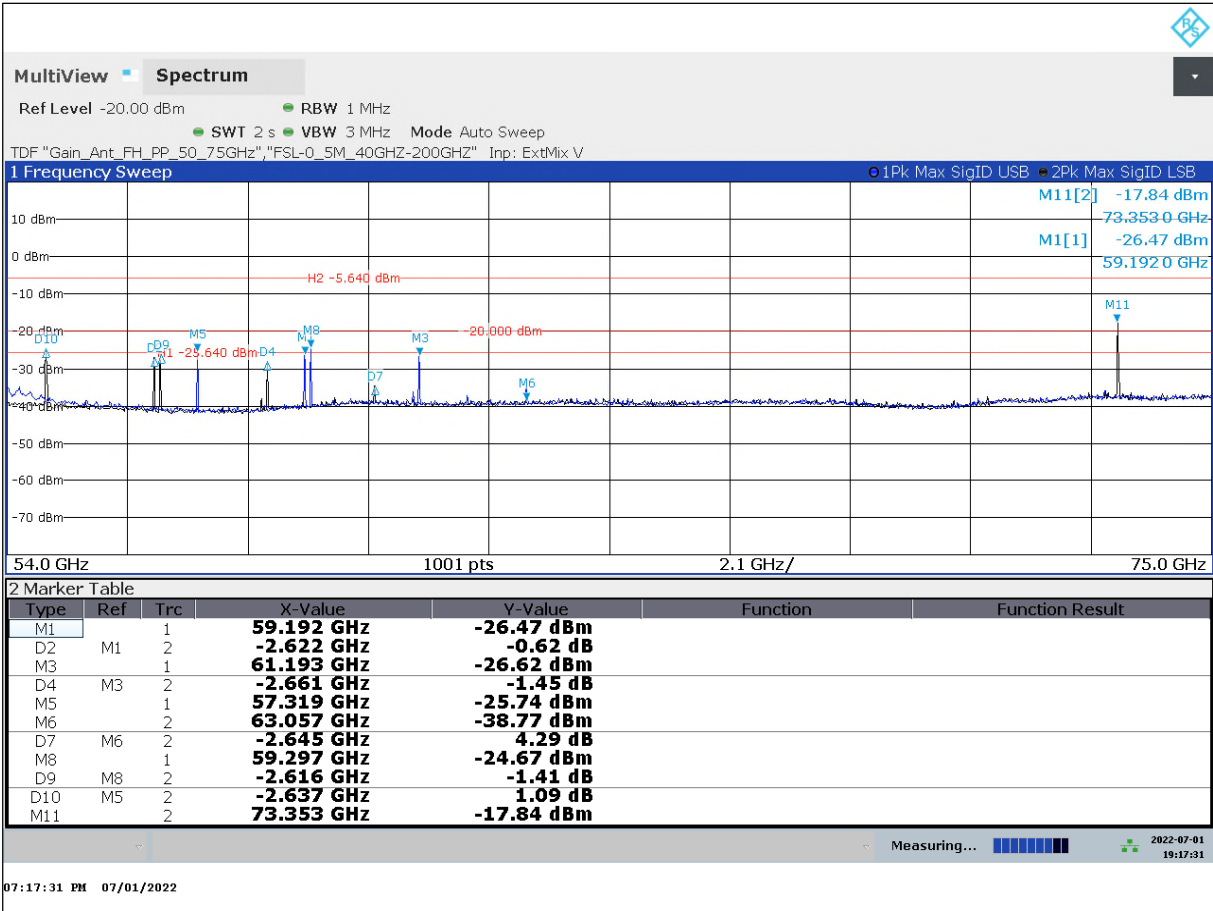


1.3.6 Emission measurements ($54\text{GHz} < f < 75\text{GHz}$)

D133_01_T01_TX_RSE_54G_75GHz_EUT_90_TT0-360_Ant_V

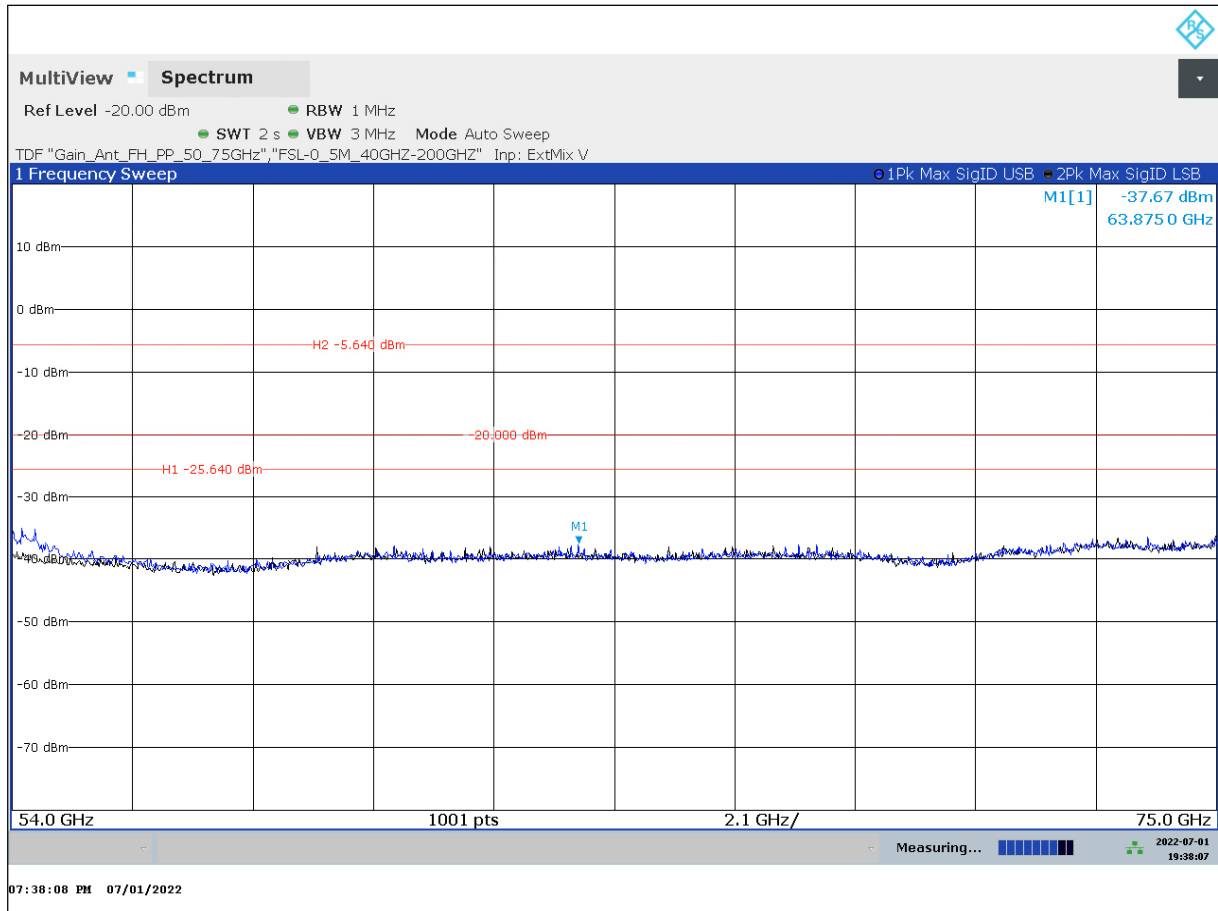


D133_02_T01_TX_RSE_54G_75GHz_EUT_0_TT0-360_Ant_V



Signal-ID function shows non-spurious components, only image/ghost frequencies

D134_01_T01_TX_RSE_54G_75GHz_EUT_90_TT0-360_Ant_H



MultiView Spectrum

Ref Level -20.00 dBm RBW 1 MHz
SWT 2 s VBW 3 MHz Mode Auto Sweep

TDF "Gain_Ant_FH_PP_50_75GHz","FSL-0_5M_40GHZ-200GHZ" Inp: ExtMix V

1 Frequency Sweep ○ 1Pk Max SigID USB ■ 2Pk Max SigID LSB

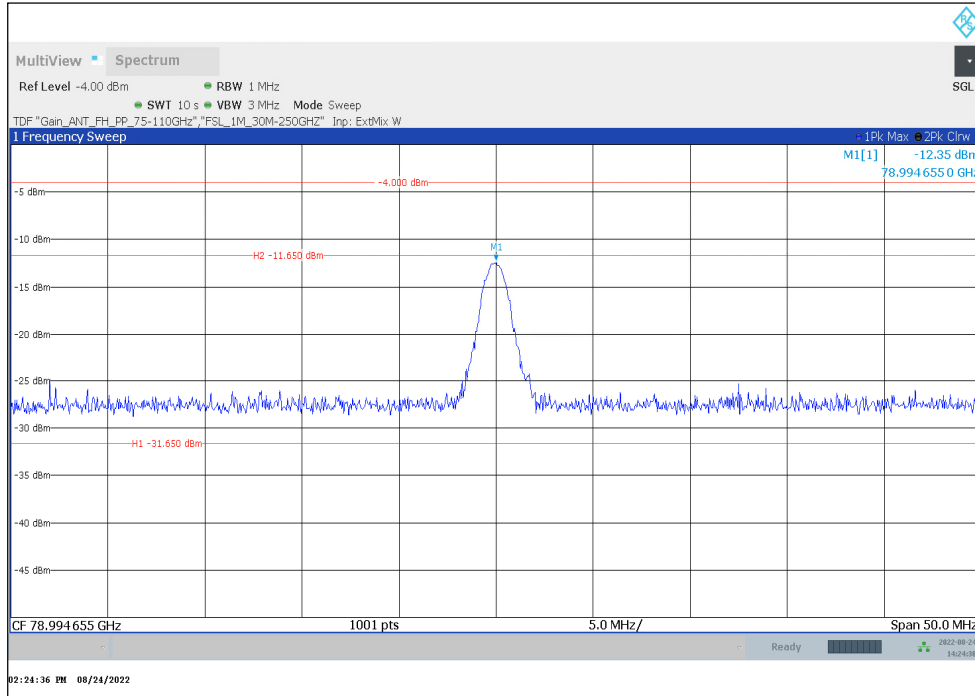
Marker ID	Type	Frequency (GHz)	Power (dBm)
D8[2]	Peak	-1.49	-1.49
M1[1]	Peak	-2.6240	-27.46
H2	Level	-5.640	-5.640
M2	Peak	-23.640	-23.640
M5	Peak	-23.73	-23.73
D1	Peak	-2.616	-0.97
M7	Peak	-28.10	-28.10
M1	Peak	-27.46	-27.46
D6	Peak	-2.637	0.39
D8	Peak	-2.624	-1.49

54.0 GHz 1001 pts 2.1 GHz/ 75.0 GHz

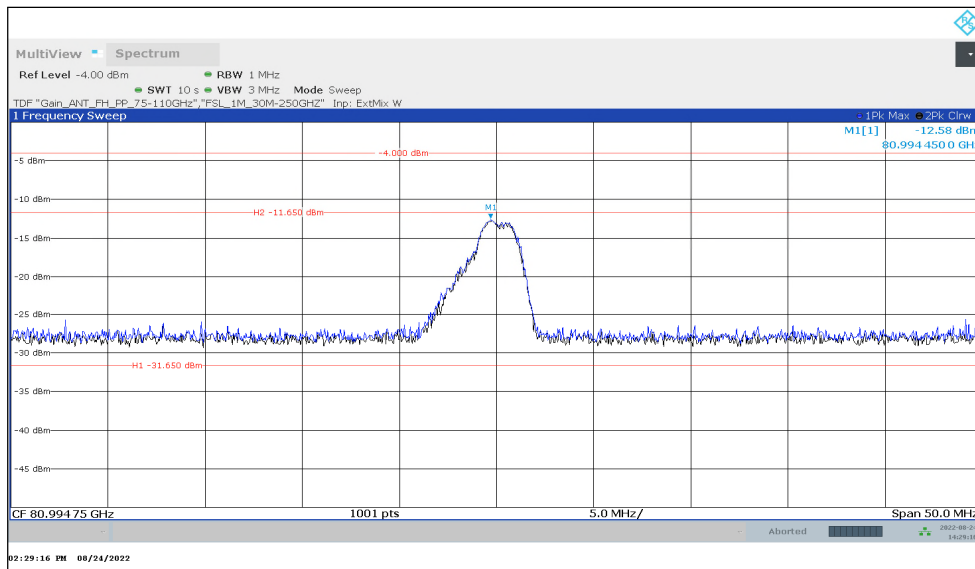
CETECOM_TR21-1-0120702T01a_A1

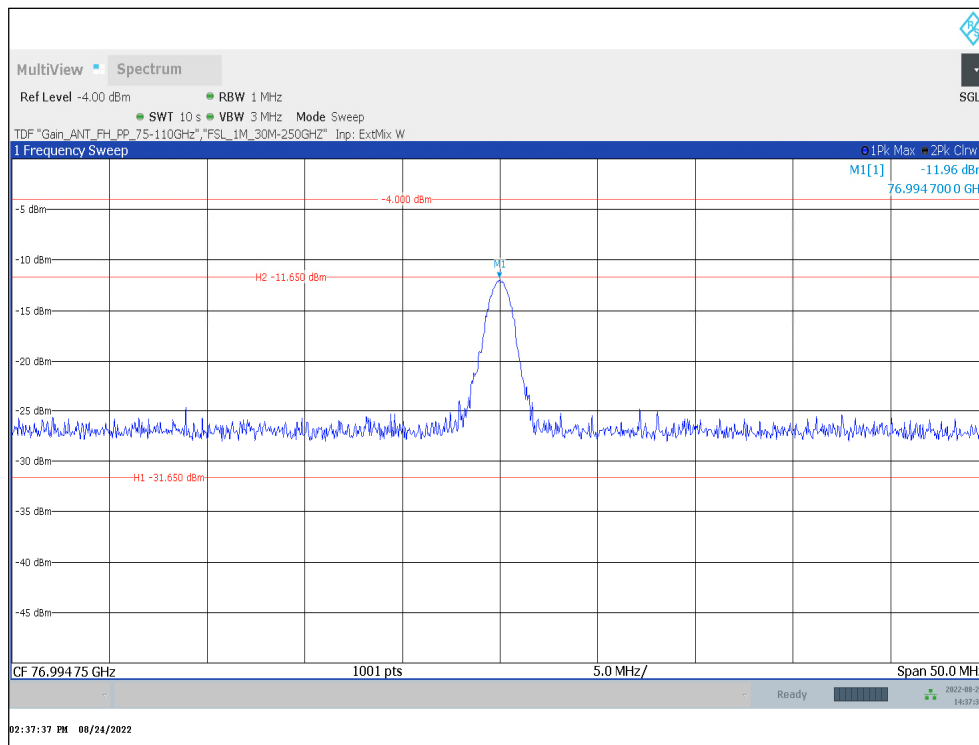
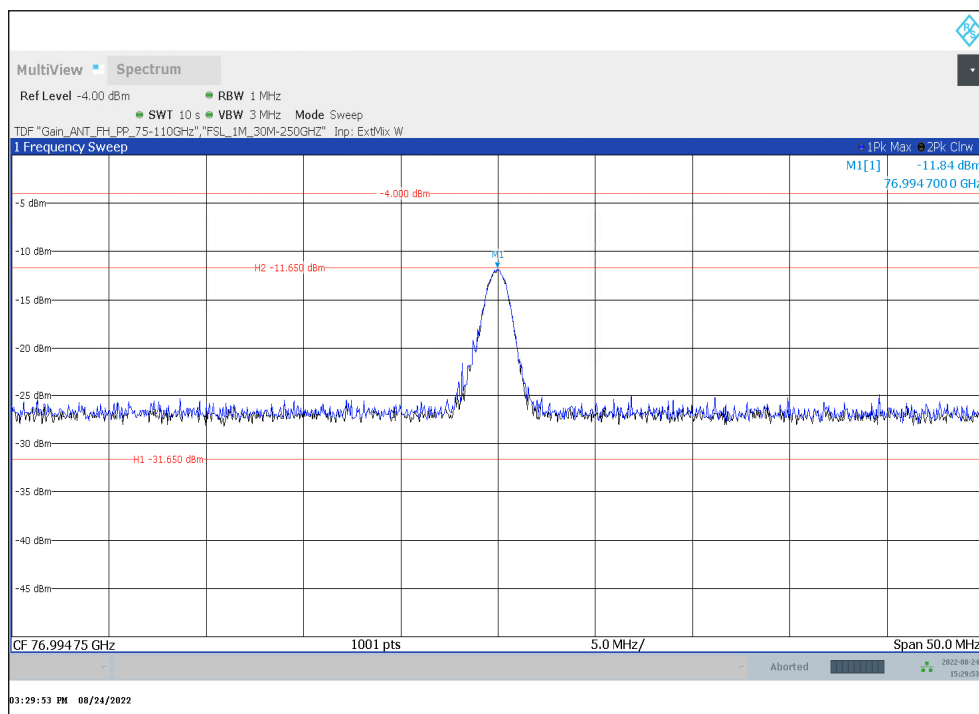
1.3.7 Carrier Emission measurements (Low/Mid/High))

D001_78.994GHz_T01_PWR_R_EUT_0_AntH



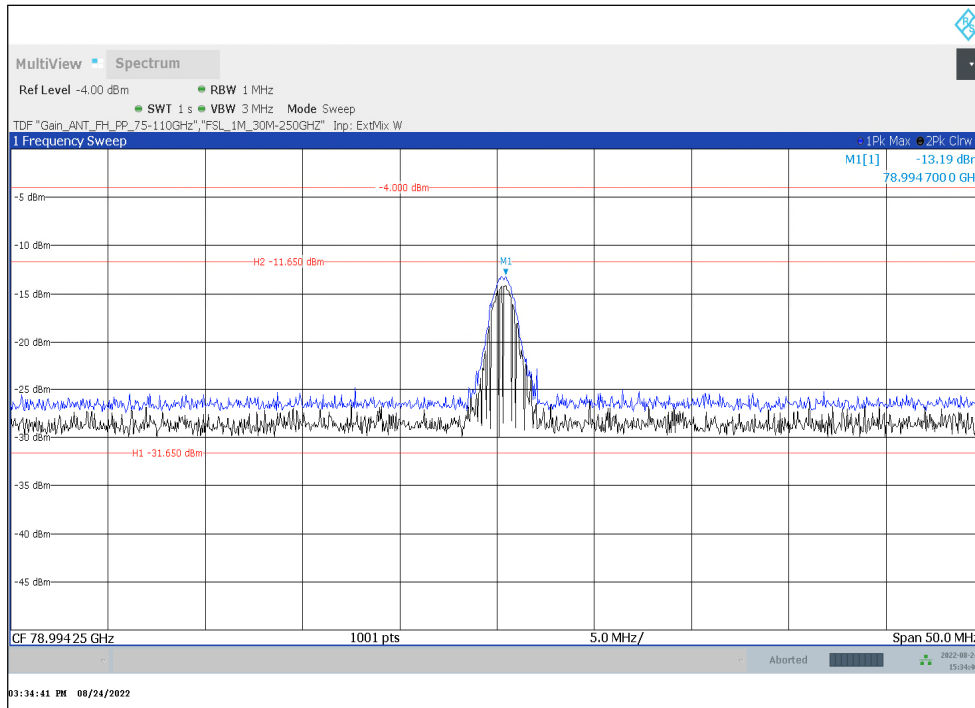
D002_80.99445GHz_T01_PWR_R_EUT_0_AntH



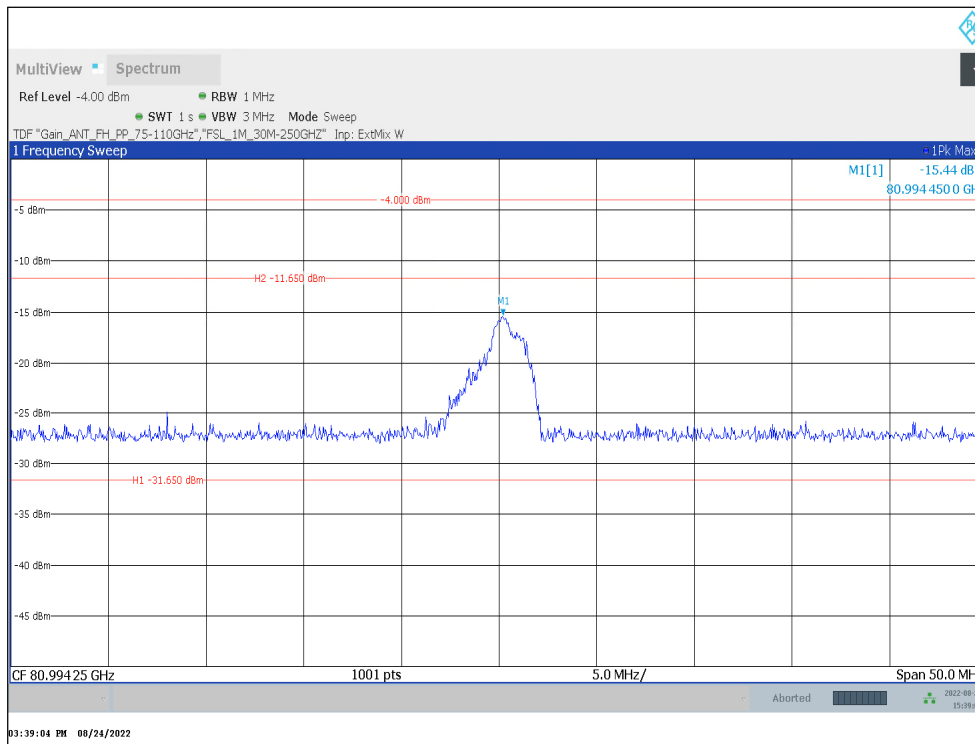
D003_76.9947GHz_T01_PWR_R_EUT_0_AntH**D004_76.99475GHz_T01_PWR_R_EUT_0_AntV**

Max.Value=-11.84dBm EIRP (PK) among channels and orientations

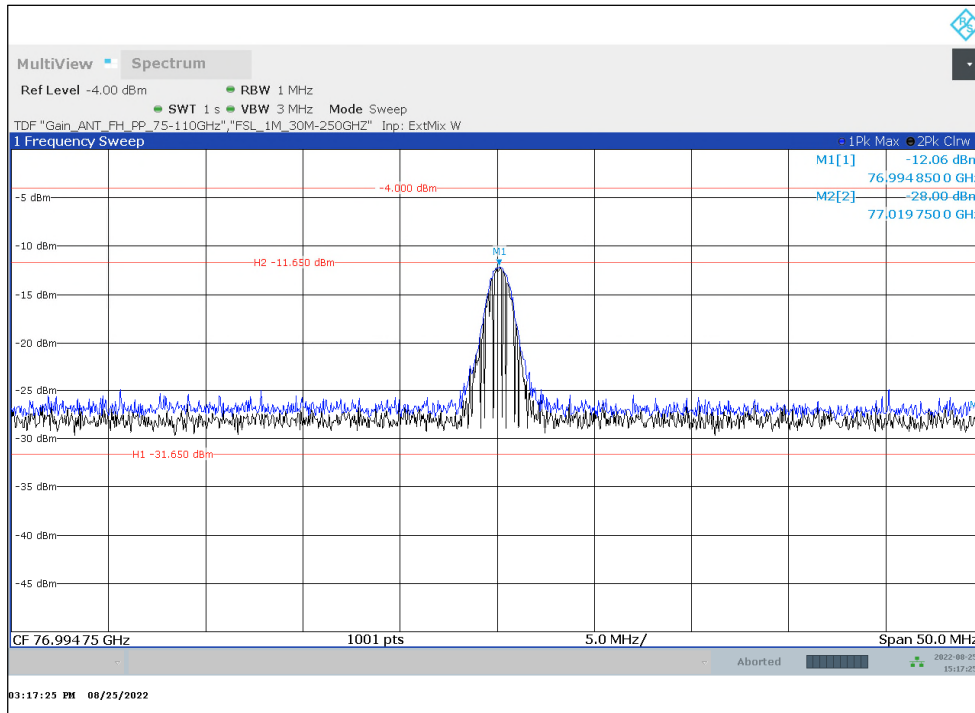
D005_78.9947GHz_T01_PWR_R_EUT_0_AntV



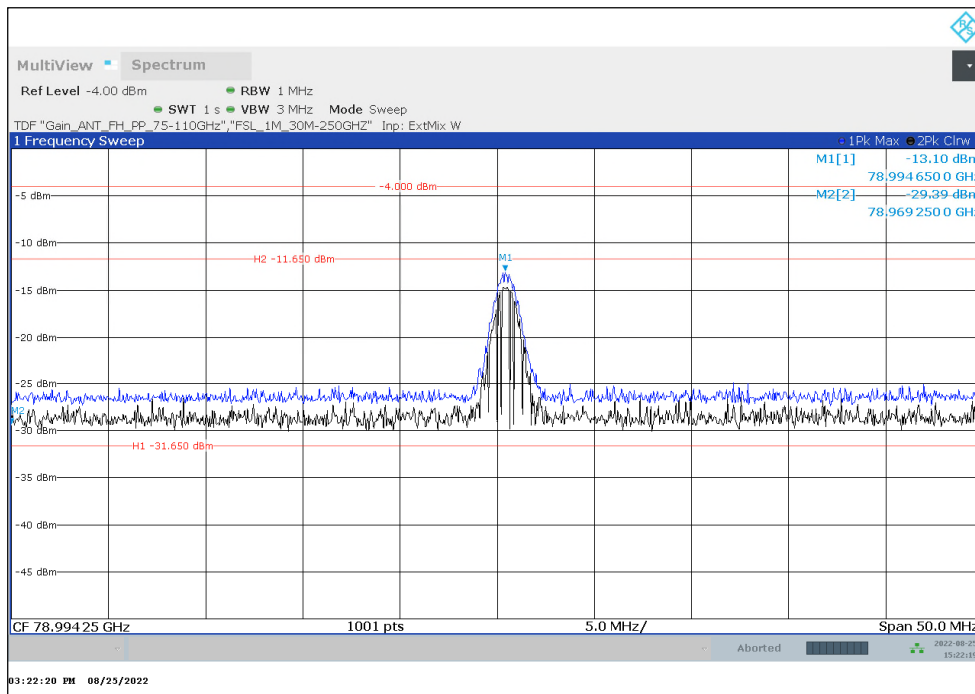
D006_80.99425GHz_T01_PWR_R_EUT_0_AntV



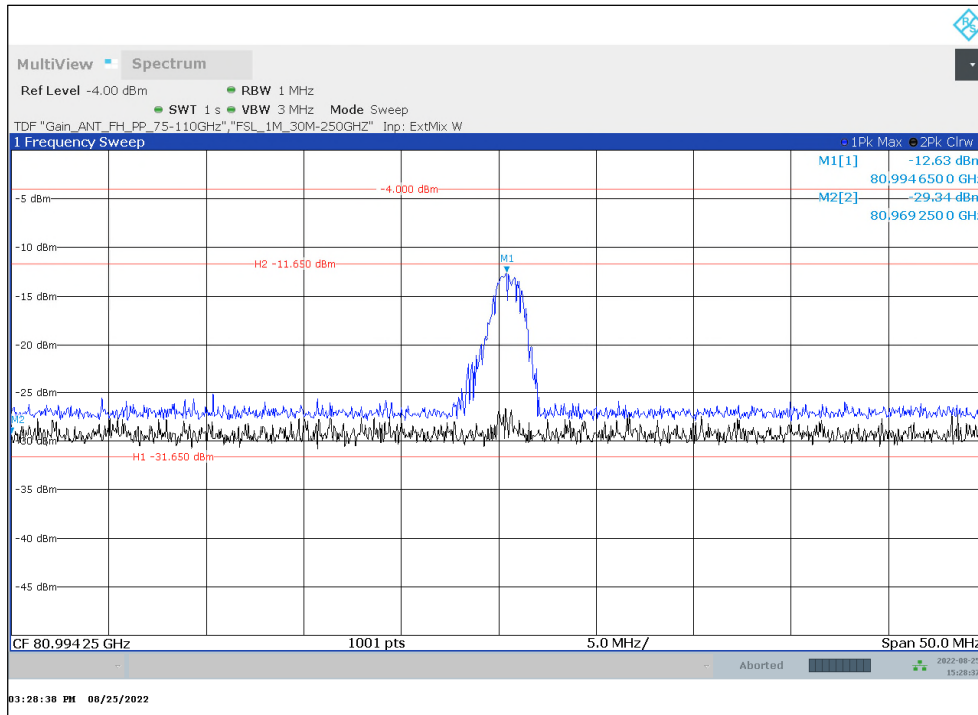
D007_76.99475GHz__T01_PWR_R_EUT_90_AntH



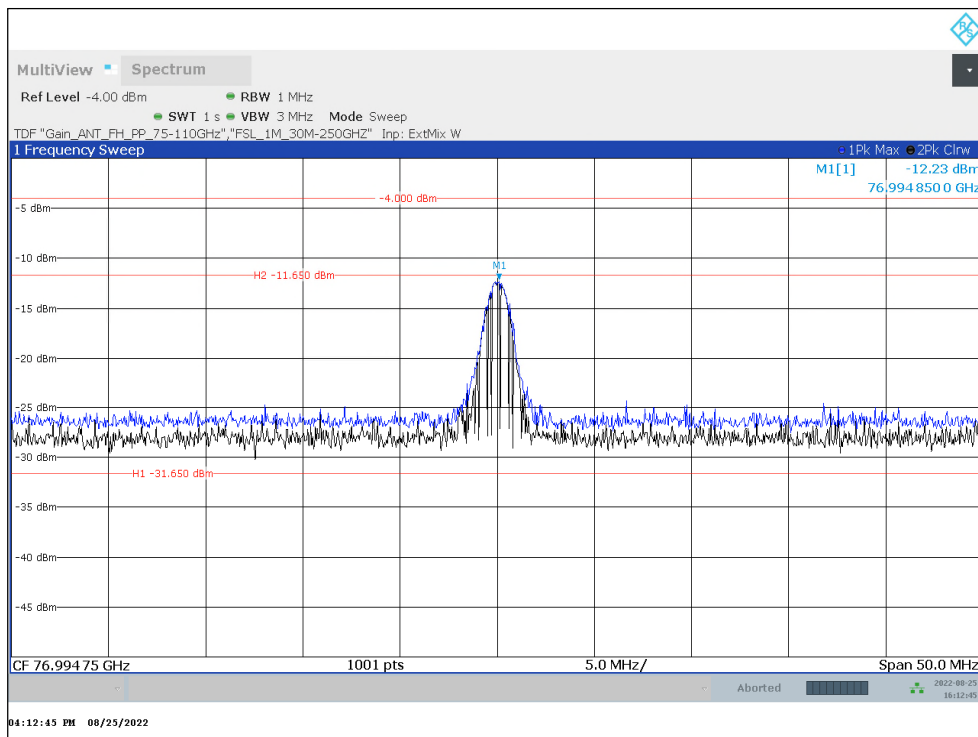
D008_78.99425GHz__T01_PWR_R_EUT_90_AntH



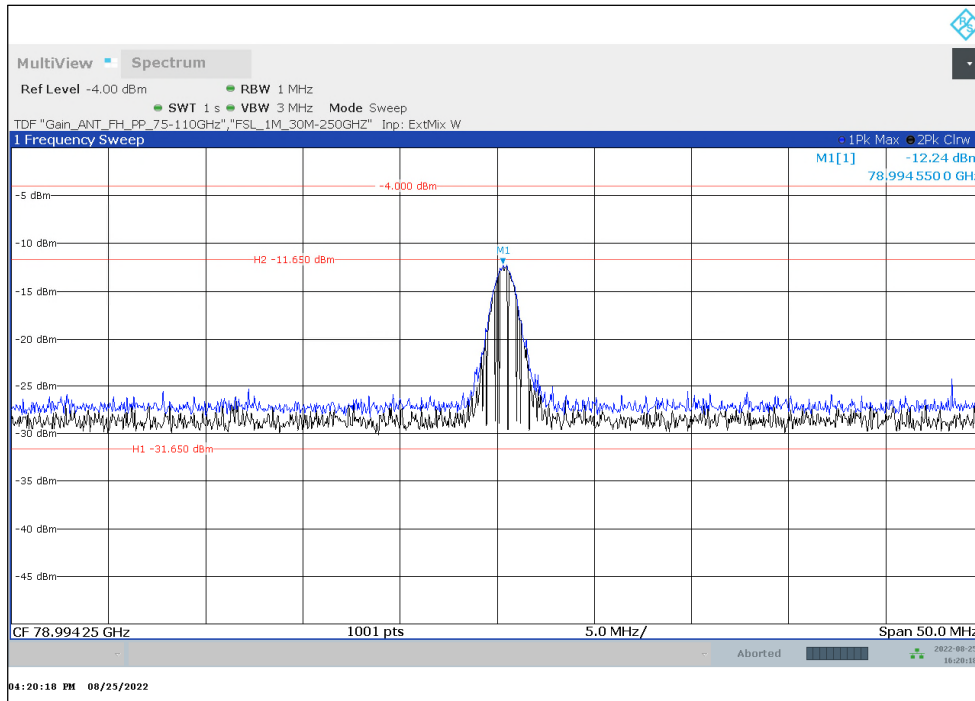
D009_80.99465GHz__T01_PWR_R_EUT_90_AntH



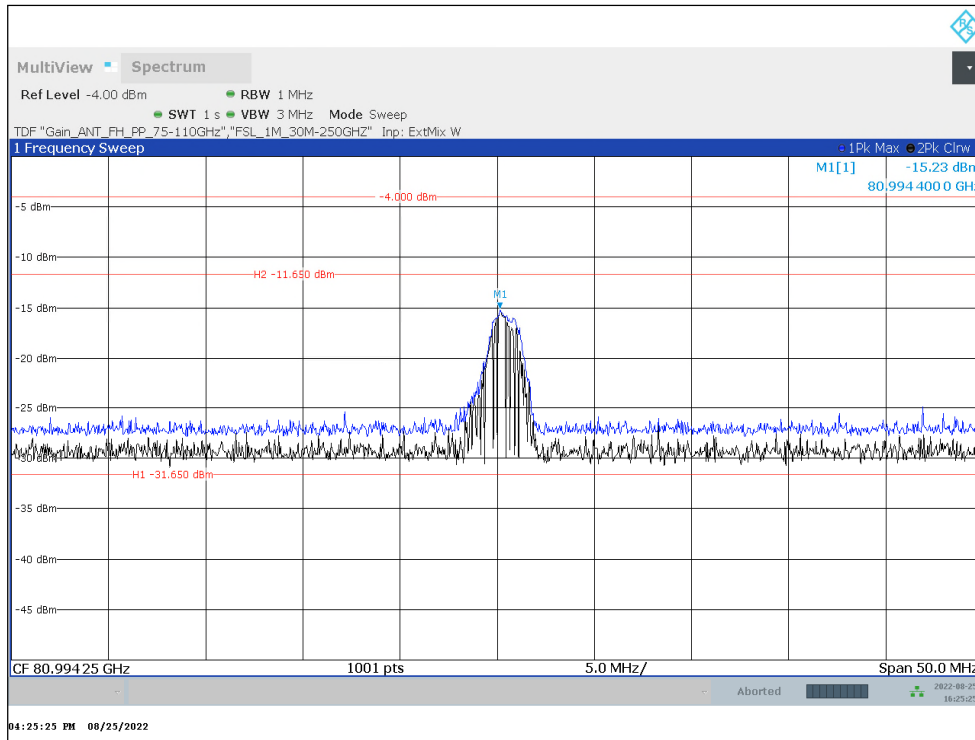
D010_76.99475GHz__T01_PWR_R_EUT_90_AntV



D011_78.99425GHz__T01_PWR_R_EUT_90_AntV



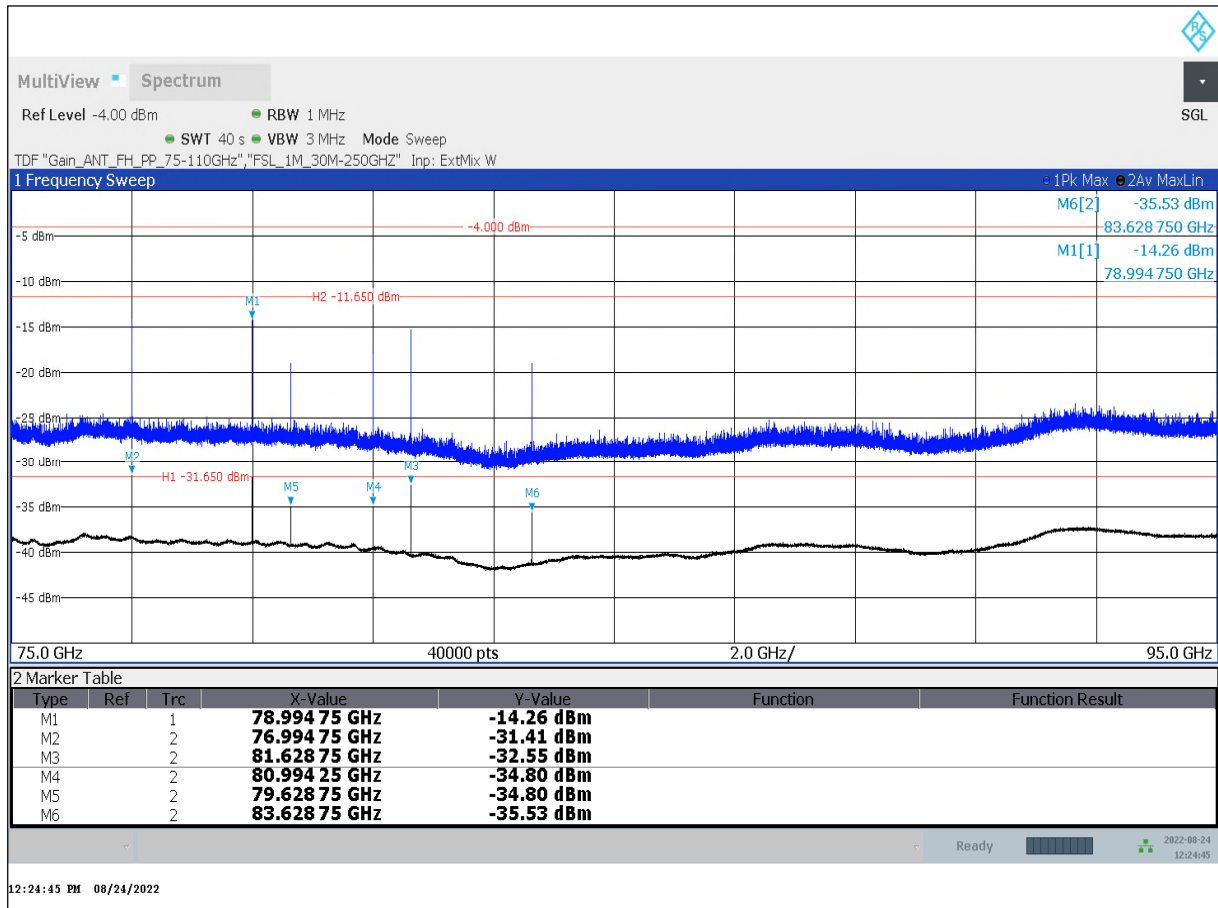
D012_80.99425GHz__T01_PWR_R_EUT_90_AntV



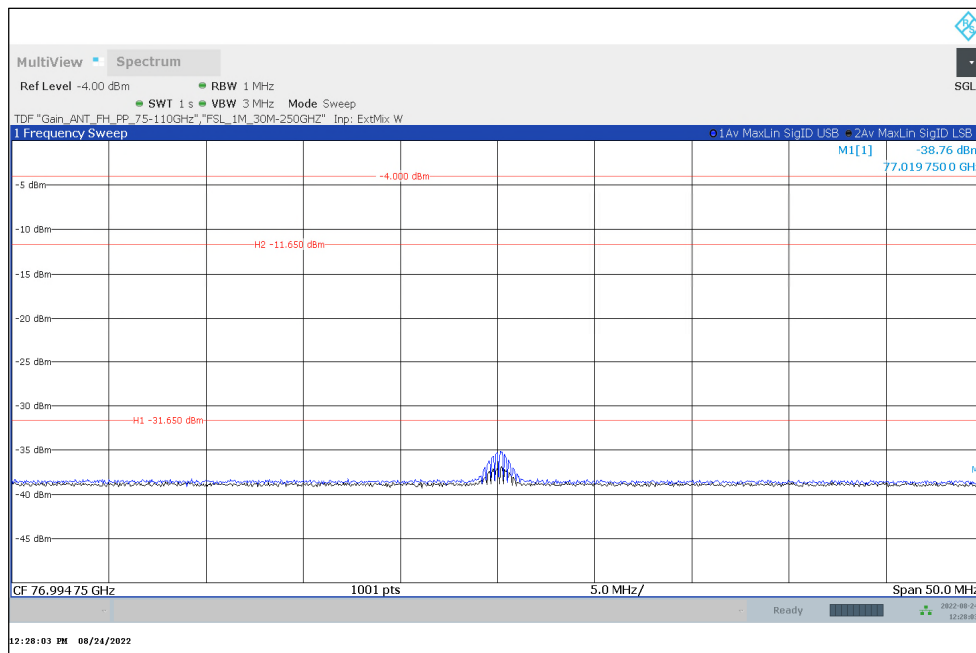
1.3.8 Radiated emission measurements (75GHz < f < 95GHz)

1.3.8.1 EUT standing / Antenna vertical

D135_19_Overview__T01_TX_RSE_75_95GHz_EUT_90_AntV

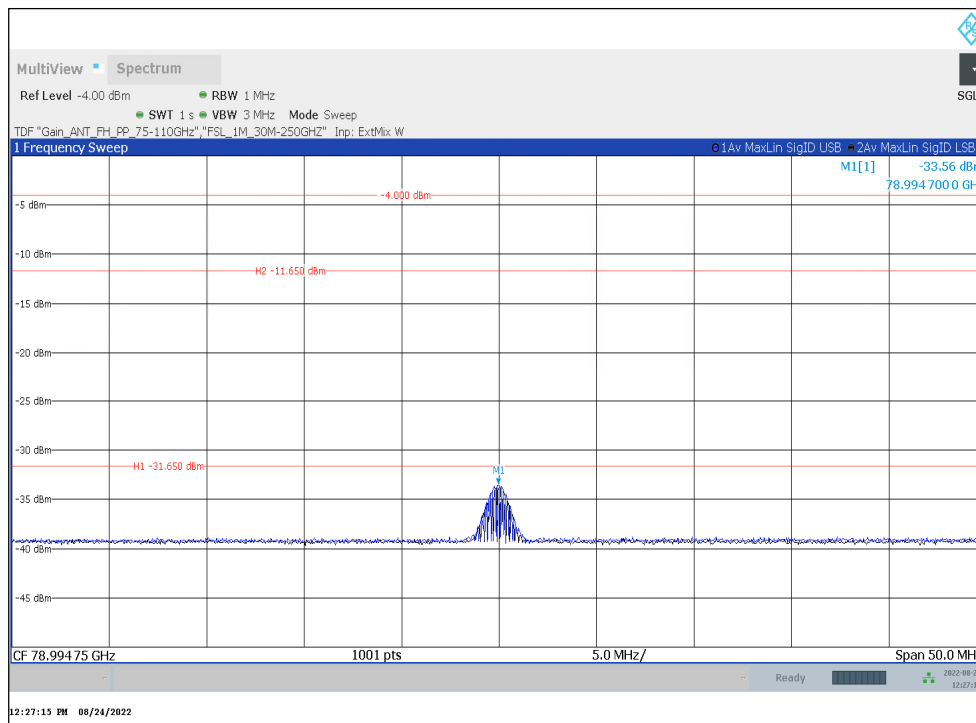


D135_19_76.99475Ghz__T01_TX_RSE_75_95GHz_EUT_90_AntV



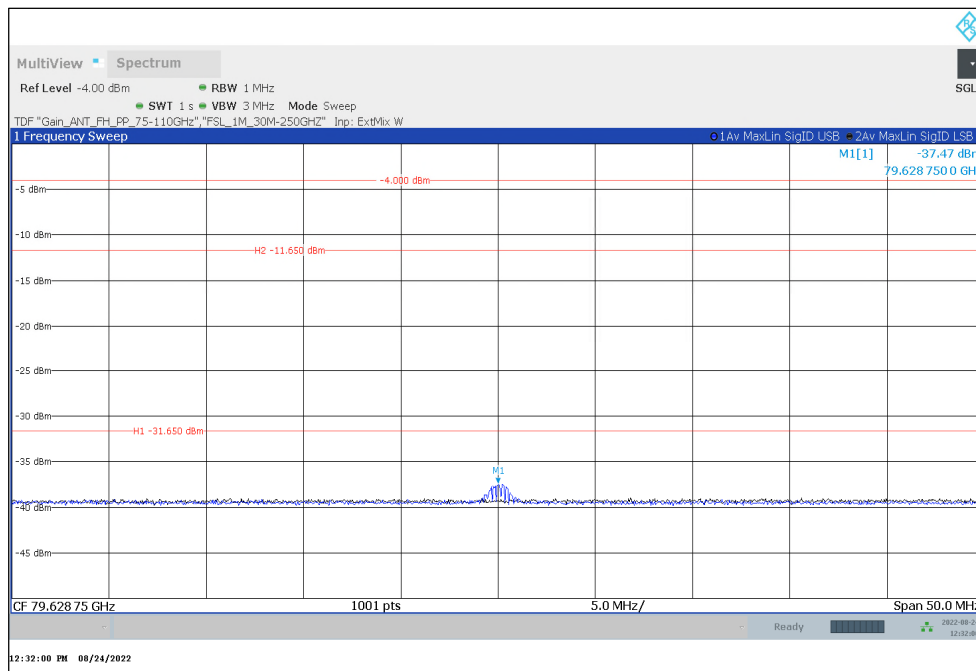
➔ Wanted signal (low frequency of range)

D135_19_78.99475__T01_TX_RSE_75_95GHz_EUT_90_AntV



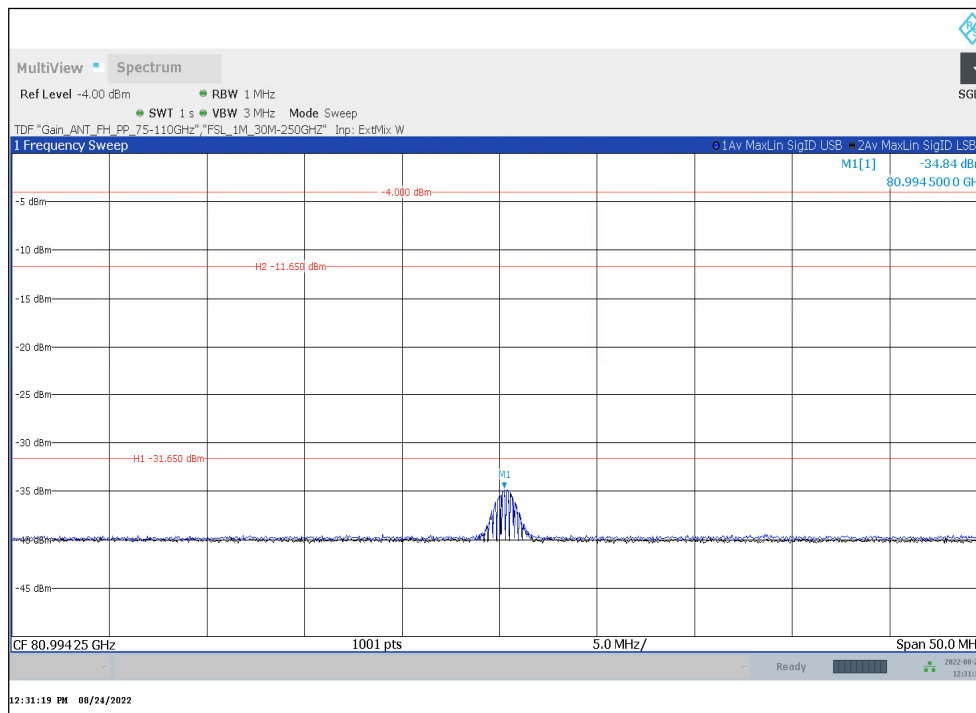
➔ Wanted signal (middle frequency of range)

D135_19_79.62875Ghz__T01_TX_RSE_75_95GHz_EUT_90_AntV



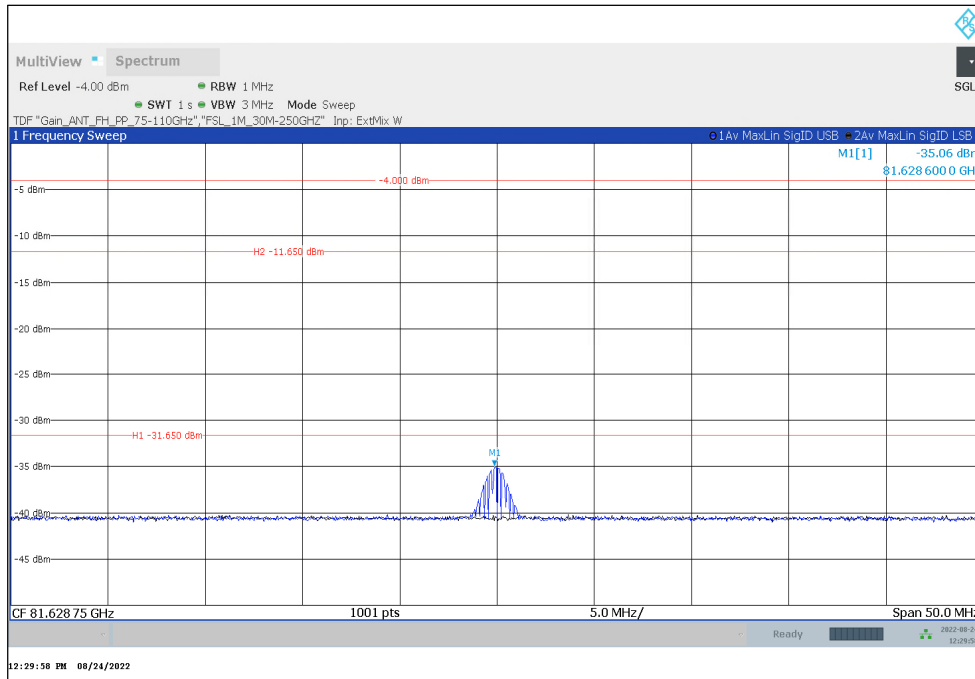
➔ Ghost signal

D135_19_80.99425Ghz__T01_TX_RSE_75_95GHz_EUT_90_AntV



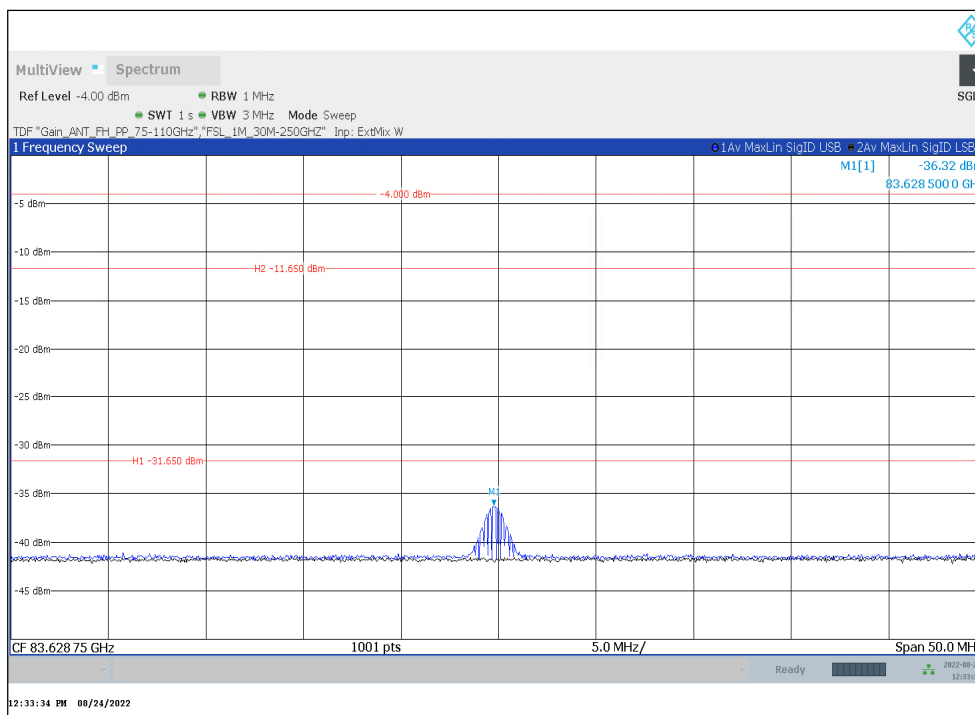
➔ Wanted signal (high frequency of range)

D135_19_81.62875Ghz__T01_TX_RSE_75_95GHz_EUT_90_AntV



➔ Ghost signal

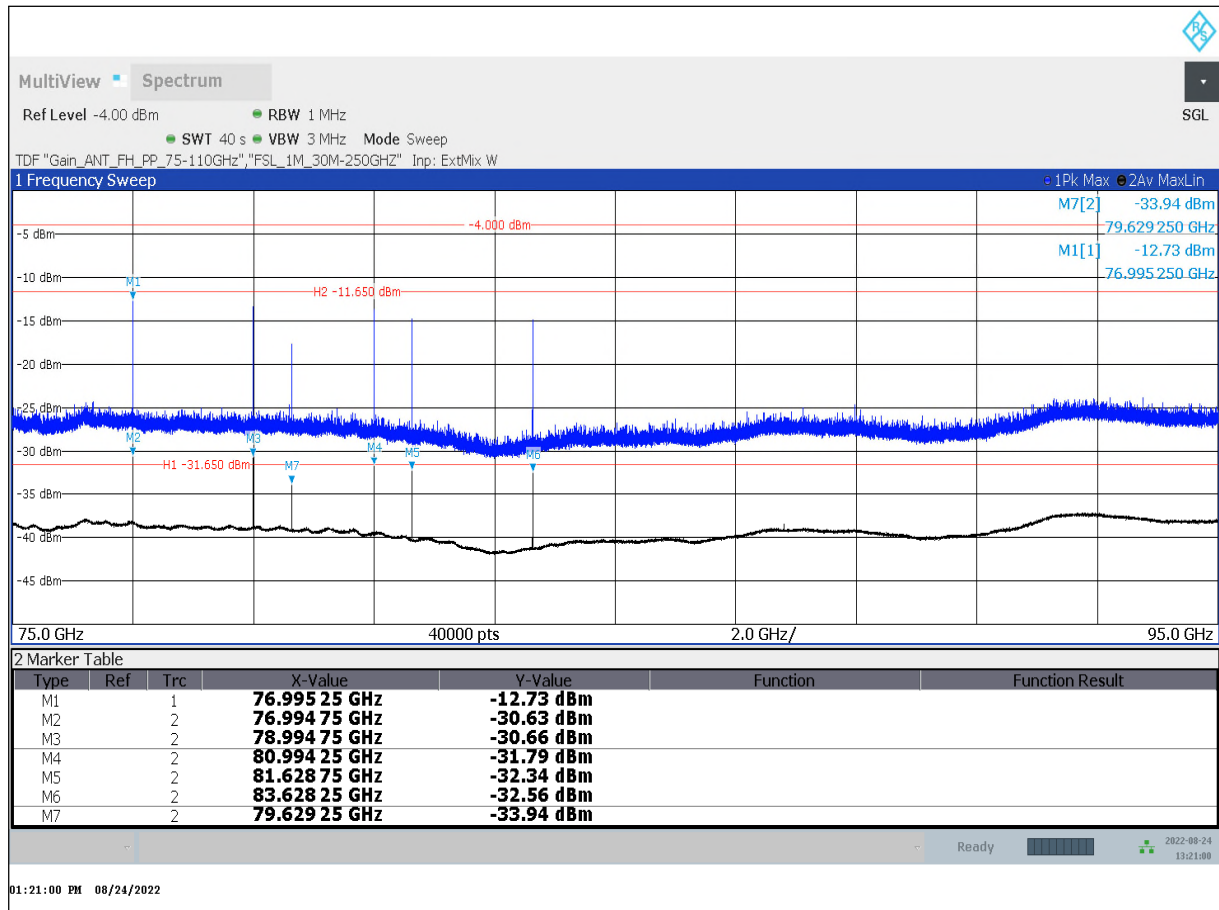
D135_19_83.62875Ghz__T01_TX_RSE_75_95GHz_EUT_90_AntV

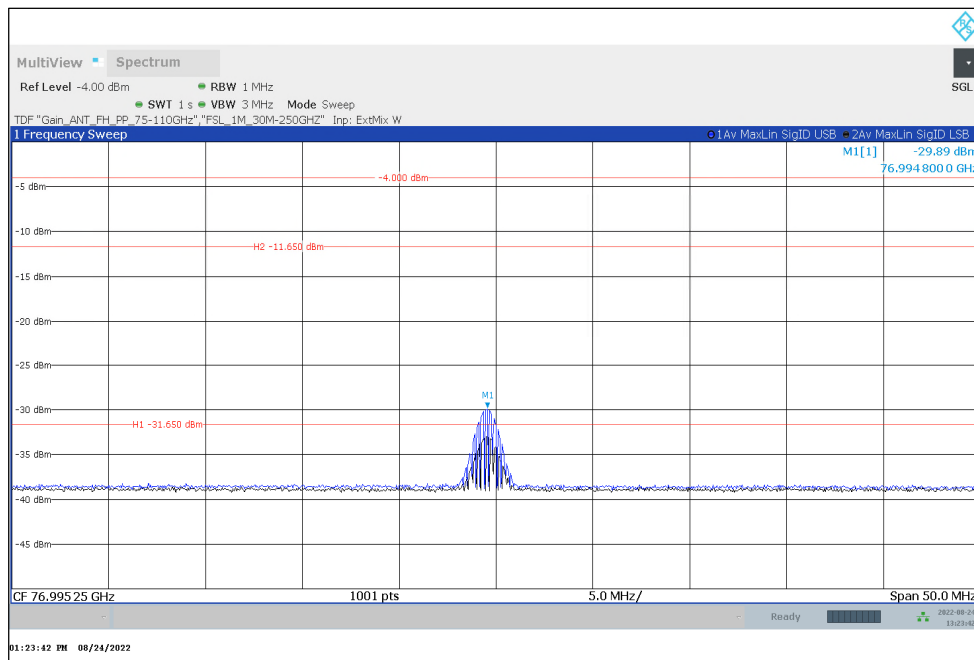


➔ Ghost signal

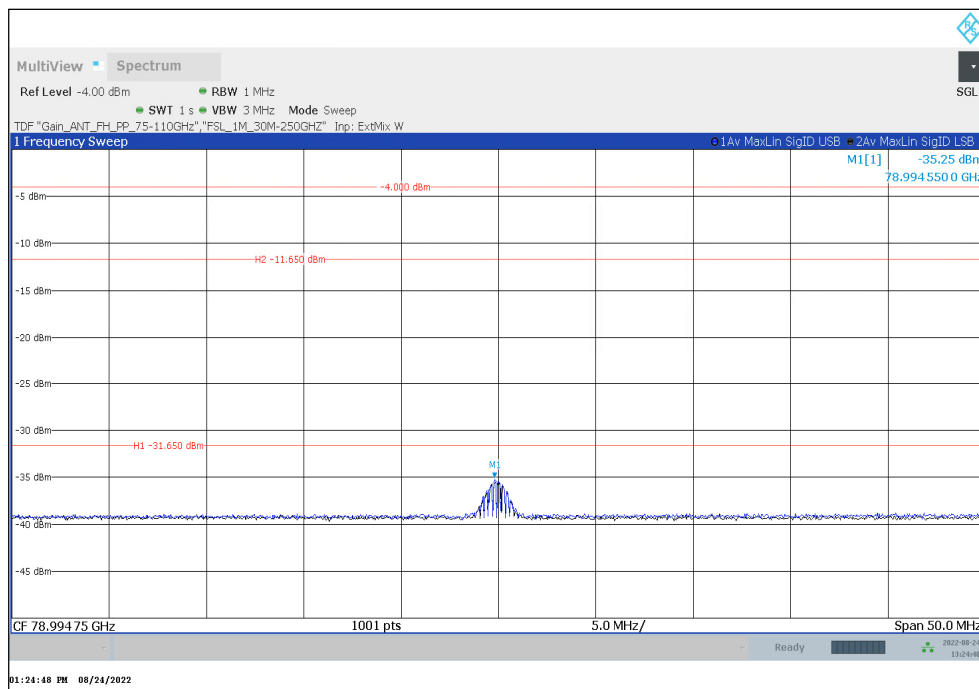
1.3.8.2 EUT standing / Antenna horizontal

D136_20_Overview_T01_TX_RSE_75_95GHz_EUT_90_AntH



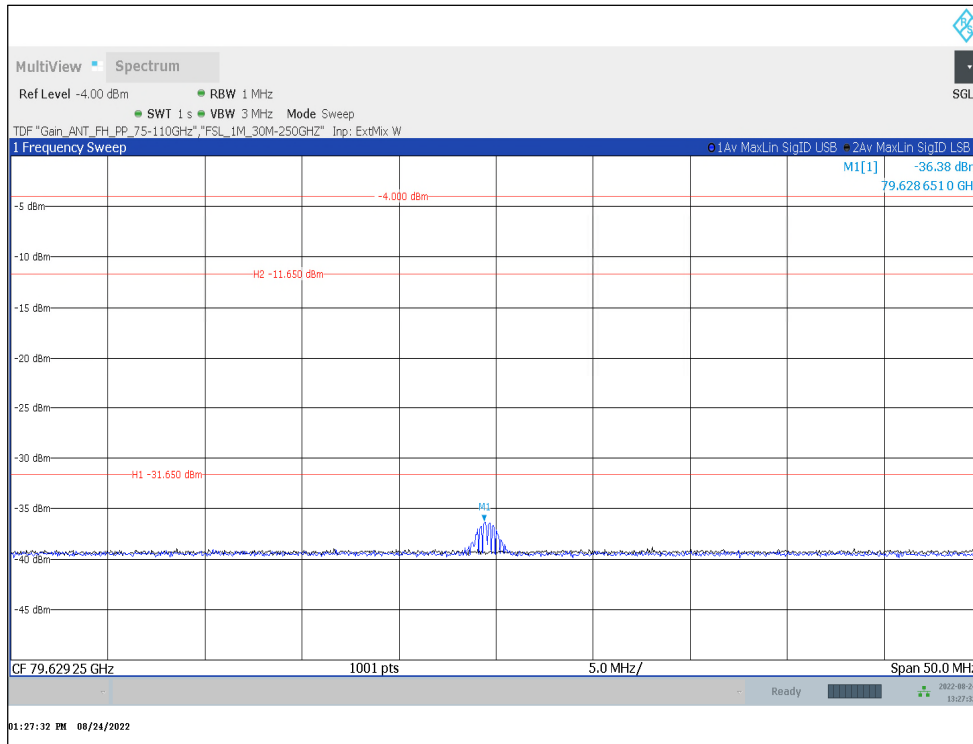
D136_20_76.99525GHz_T01_TX_RSE_75_95GHz_EUT_90_AntH

➔ Wanted signal (low frequency of operating range)

D136_20_78.99475GHz_T01_TX_RSE_75_95GHz_EUT_90_AntH

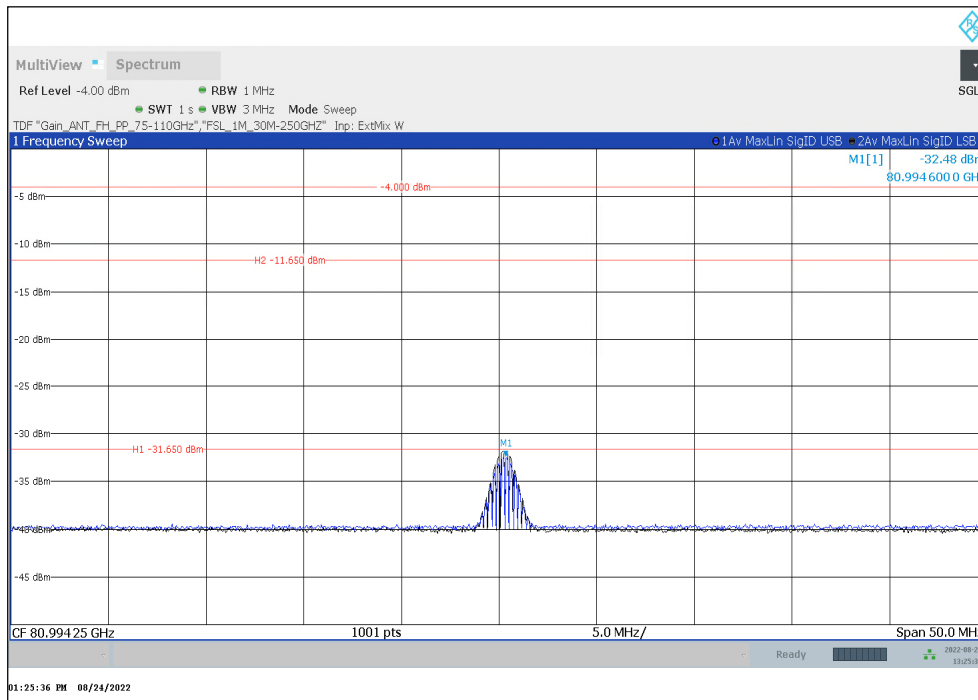
➔ Wanted signal (middle frequency of operating range)

D136_20_79.62925GHz_T01_TX_RSE_75_95GHz_EUT_90_AntH

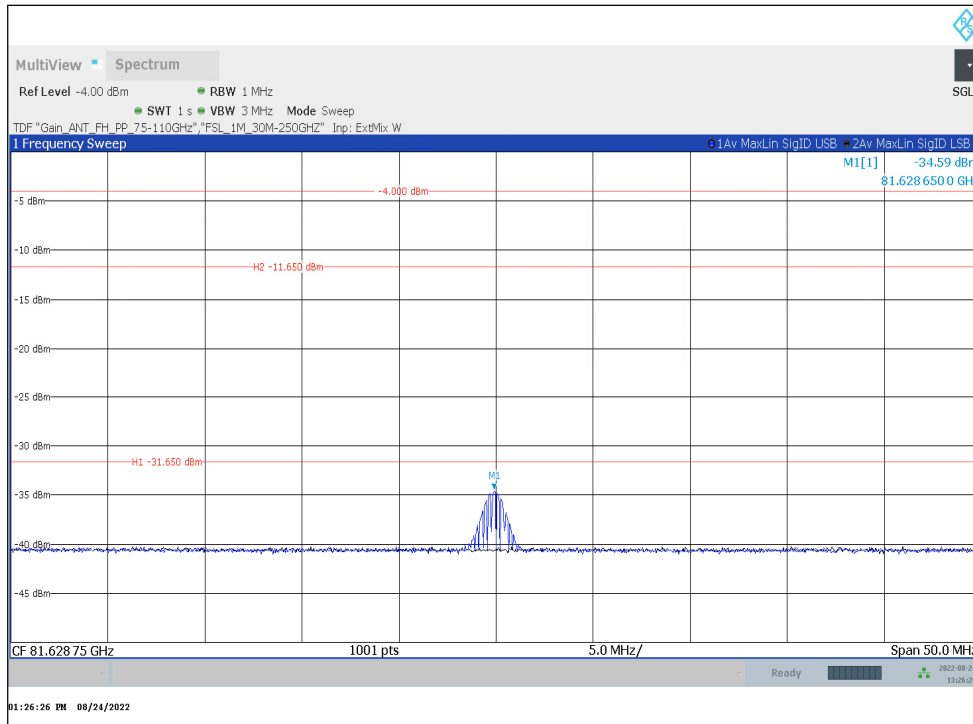


➔ Ghost signal

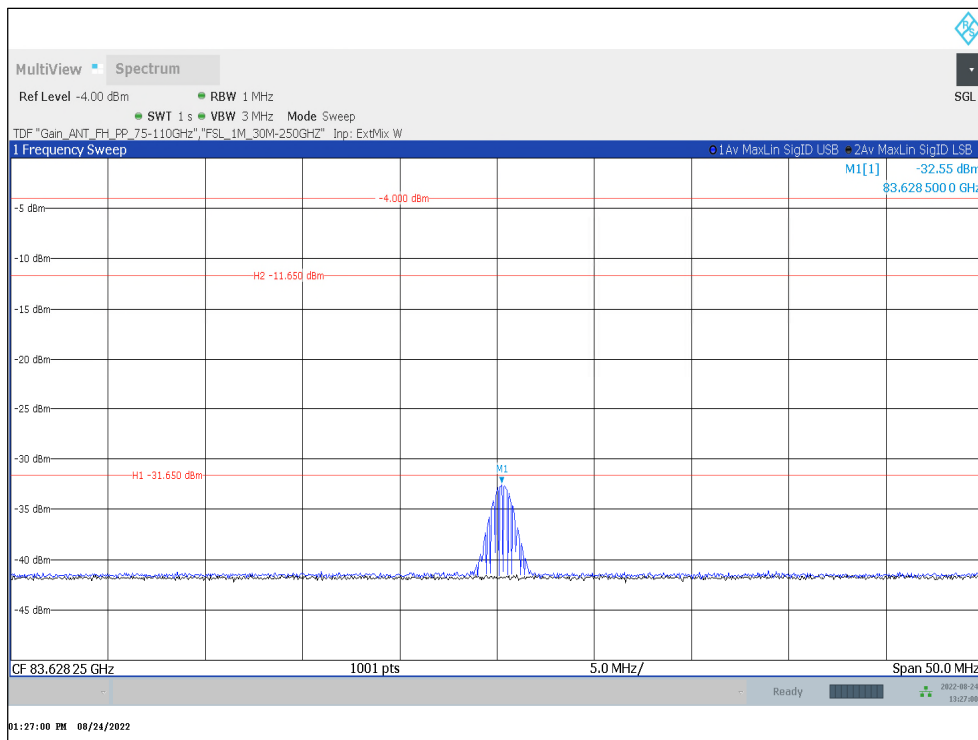
D136_20_80.99425GHz_T01_TX_RSE_75_95GHz_EUT_90_AntH



➔ Wanted signal (high frequency of operating range)

D136_20_81.62875GHz_T01_TX_RSE_75_95GHz_EUT_90_AntH

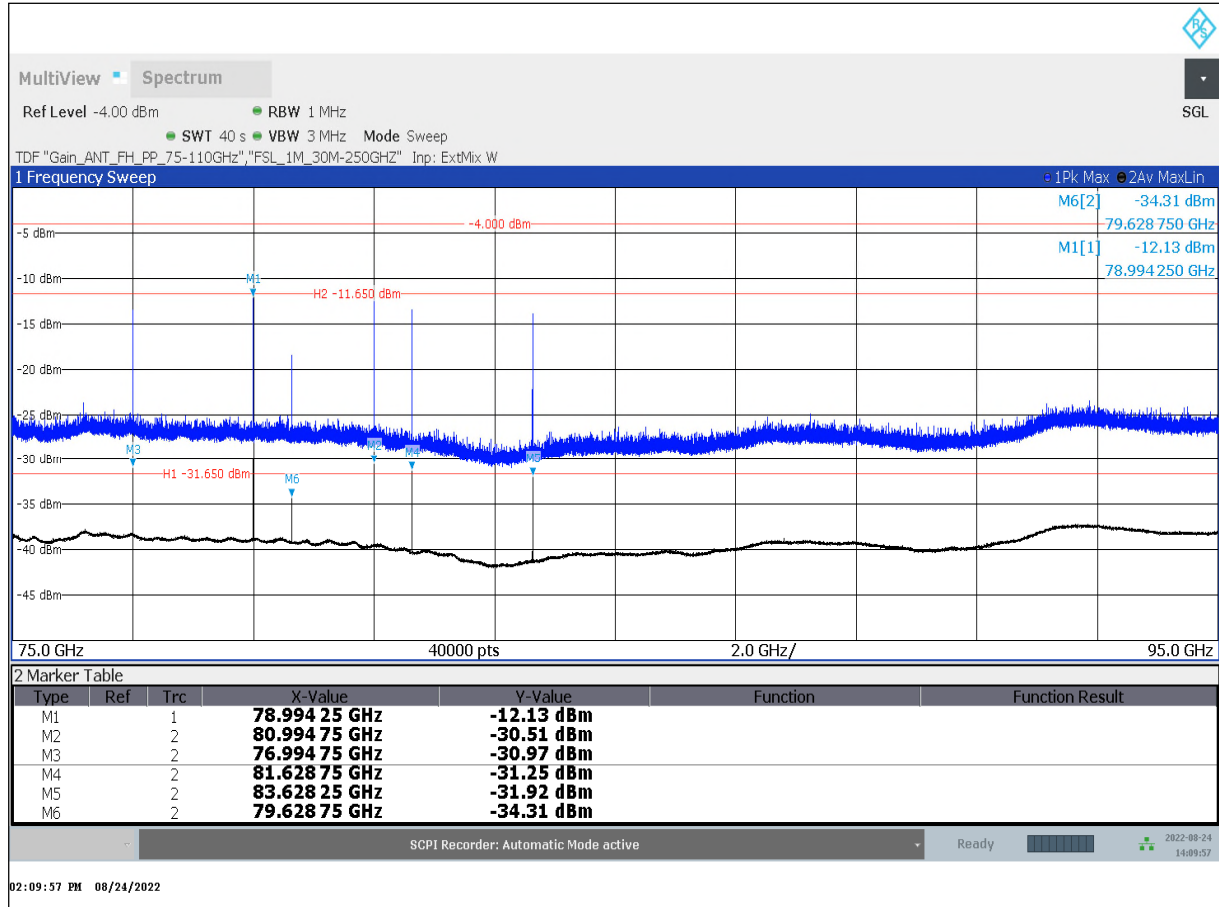
➔ Ghost signal

D136_20_83.62825GHz_T01_TX_RSE_75_95GHz_EUT_90_AntH

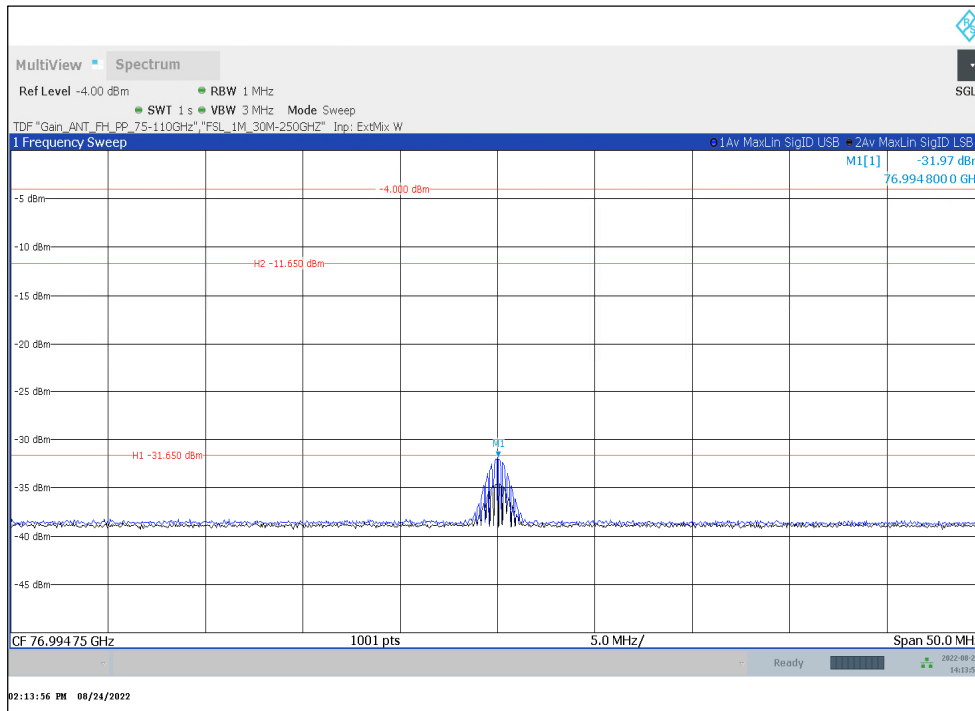
➔ Ghost signal

1.3.8.3 EUT laying / Antenna horizontal

D136_23_Overview_T01_TX_RSE_75_95GHz_EUT_0_Anth

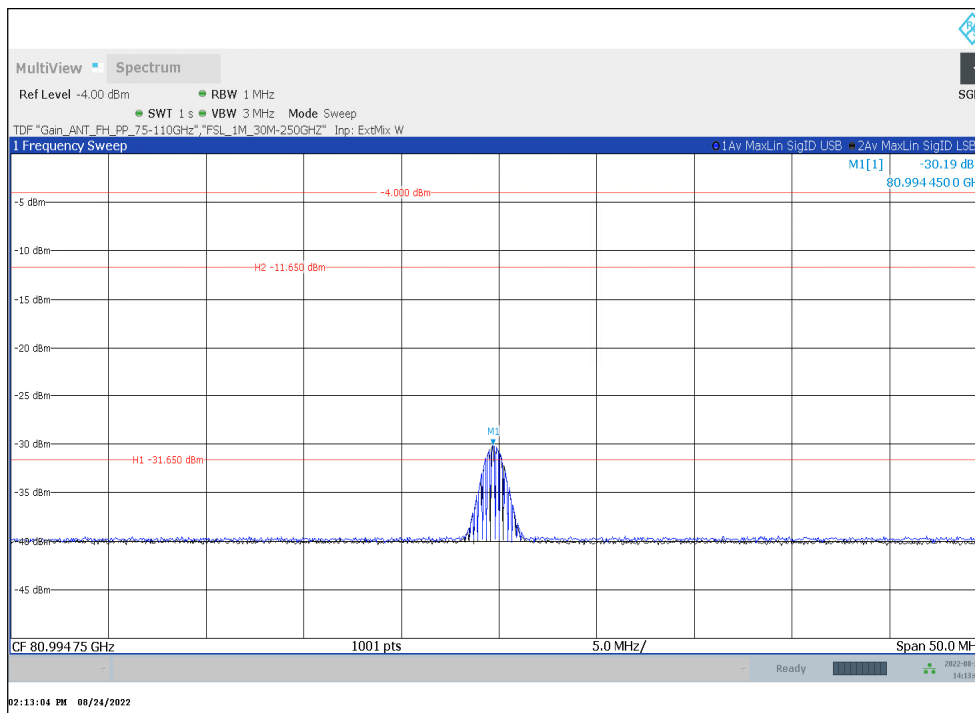


D136_23_76.99475GHz_T01_TX_RSE_75_95GHz_EUT_0_Anth



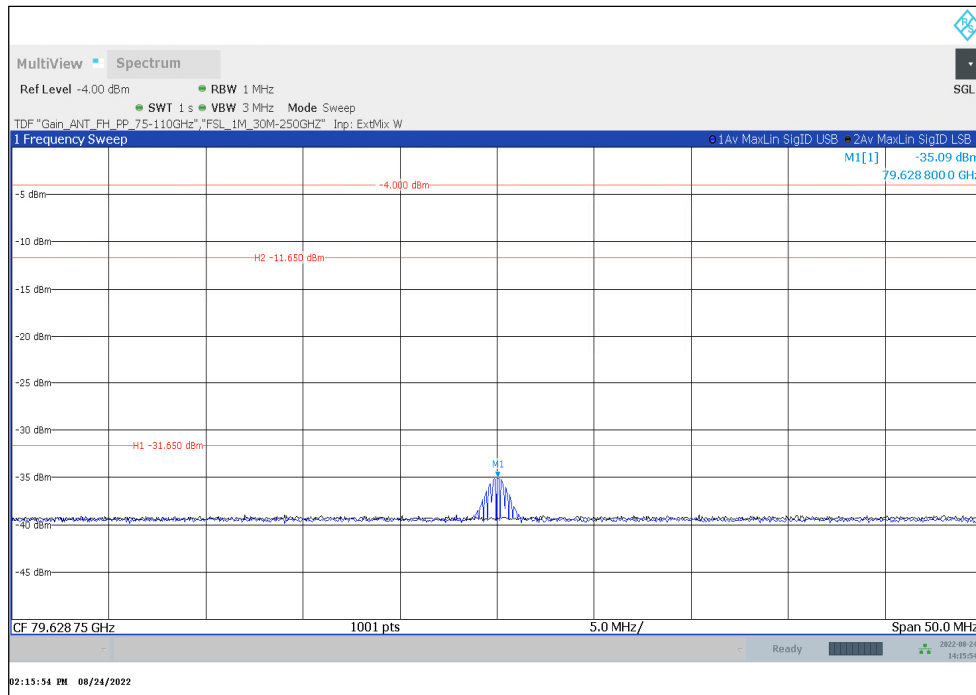
➔ Wanted signal (low frequency of operating range)

D136_23_78.99425GHz_T01_TX_RSE_75_95GHz_EUT_0_Anth



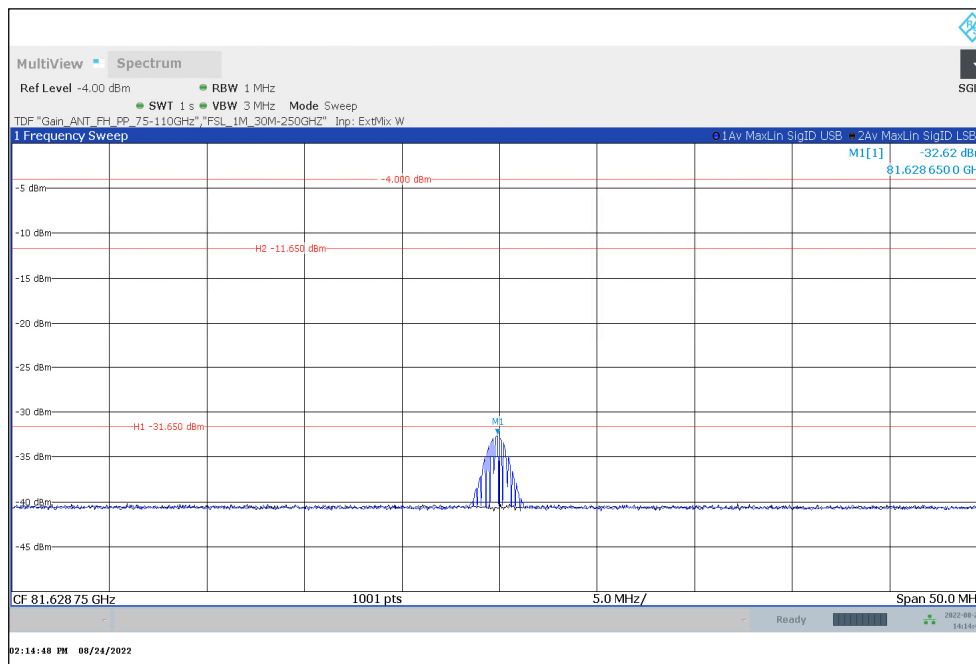
➔ Wanted signal (middle frequency of operating range)

D136_23_79.62875GHz_T01_TX_RSE_75_95GHz_EUT_0_AntH



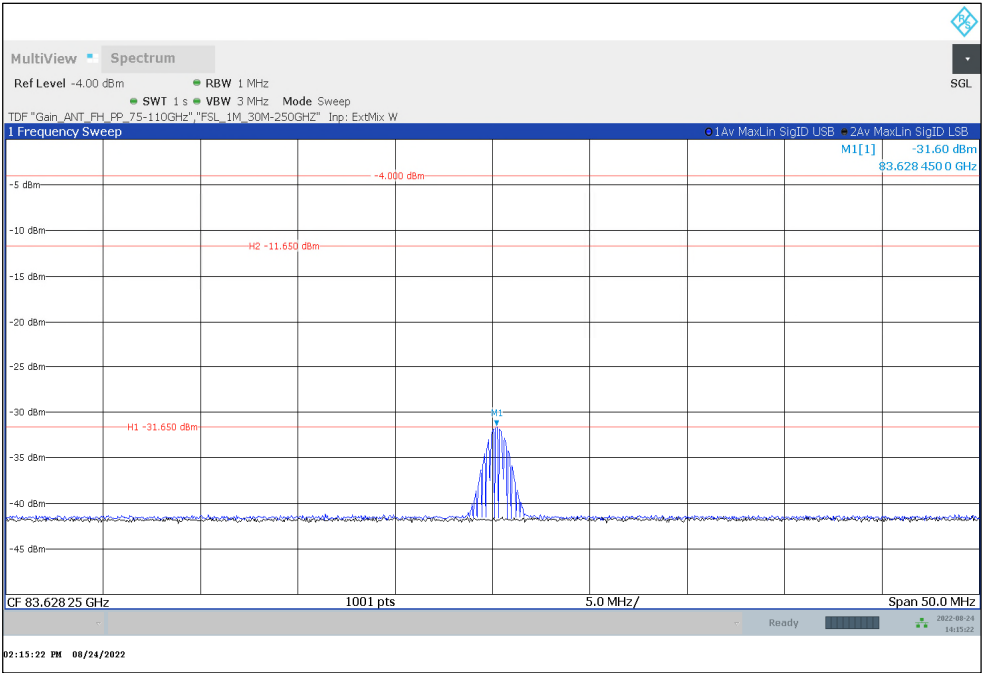
➔ Ghost signal

D136_23_81.62875GHz_T01_TX_RSE_75_95GHz_EUT_0_AntH



➔ Ghost signal

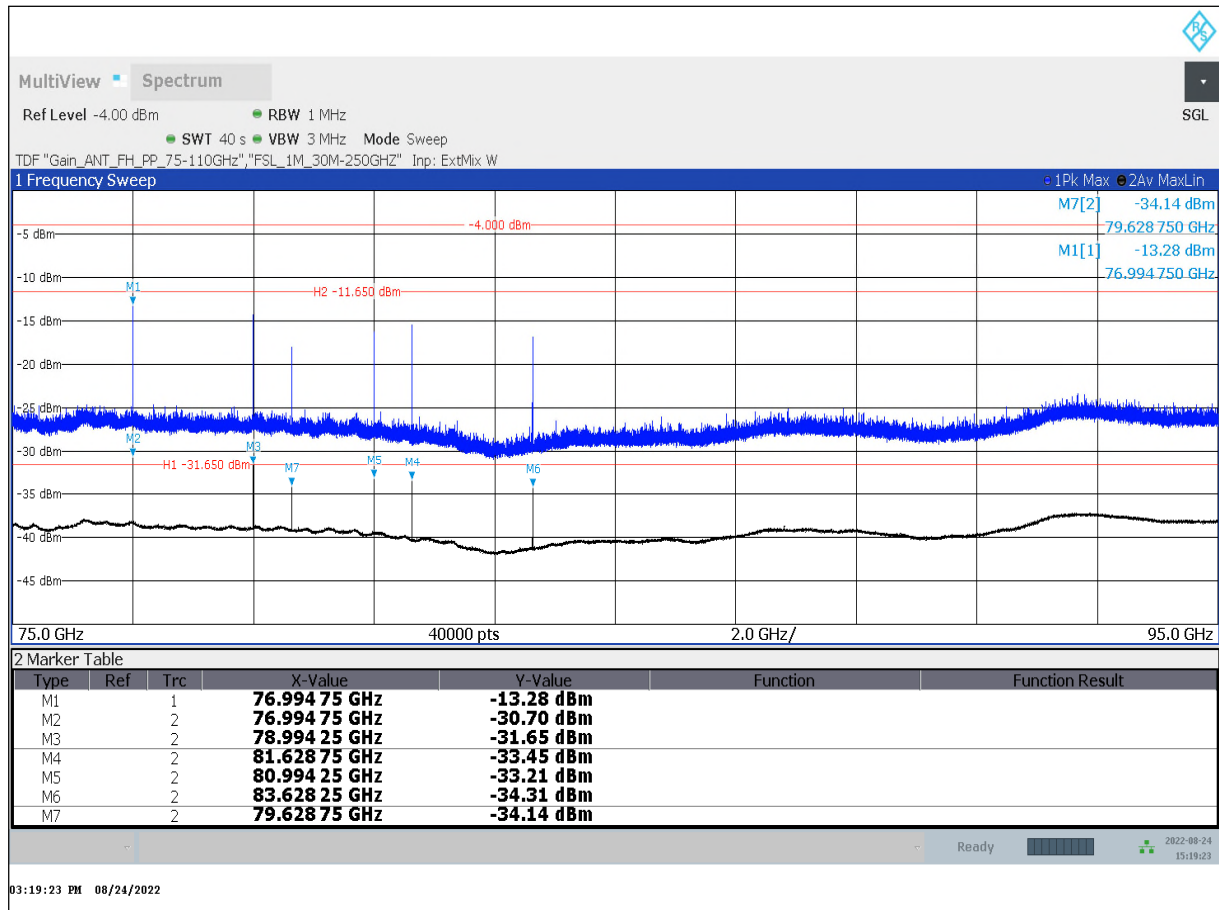
D136_23_83.62825GHz_T01_TX_RSE_75_95GHz_EUT_0_AntH

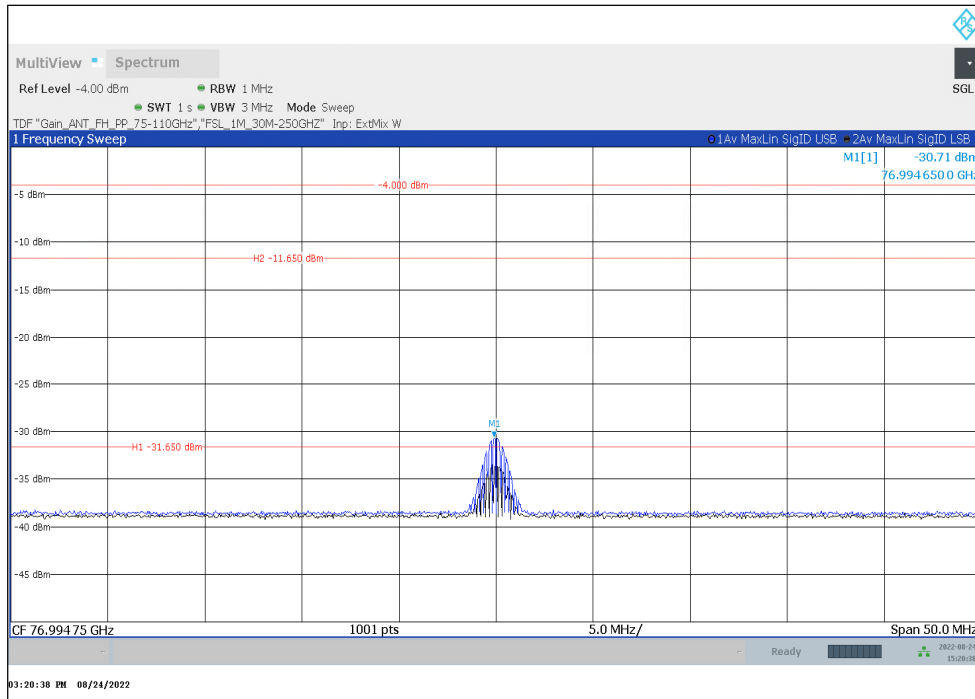


➔ Ghost signal

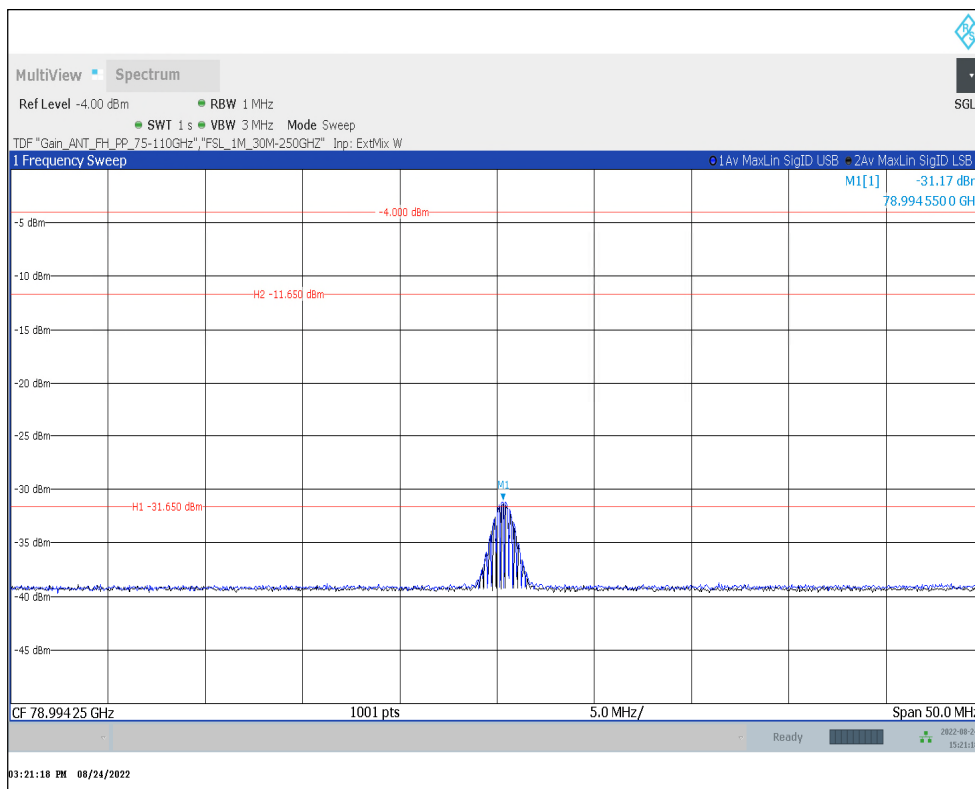
1.3.8.4 EUT laying / Antenna vertical

D135_14__Overview_T01_TX_RSE_75_95GHz_EUT_0_AntV



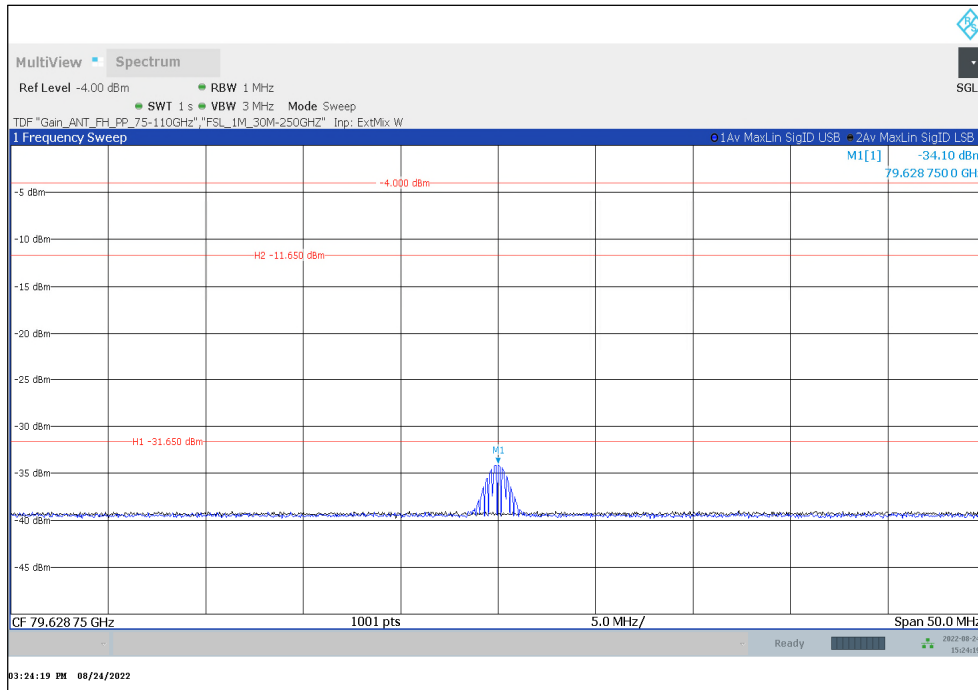
D135_14__76.99475GHz_T01_TX_RSE_75_95GHz_EUT_0_AntV

➔ Wanted signal (low frequency of operating range)

D135_14__78.99425GHz_T01_TX_RSE_75_95GHz_EUT_0_AntV

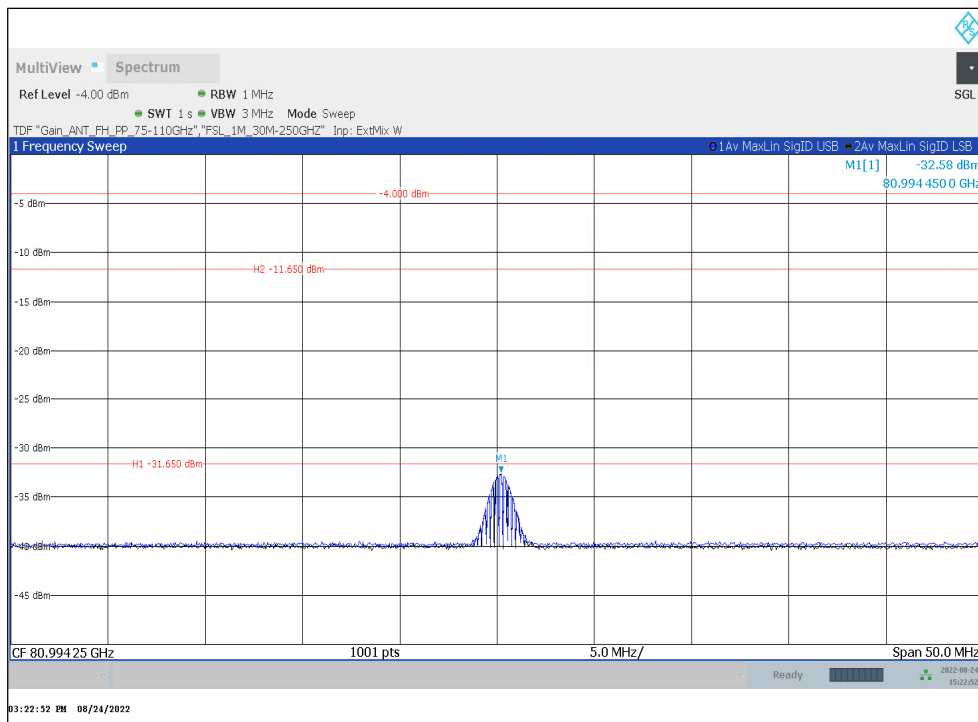
➔ Wanted signal (middle frequency of operating range)

D135_14__79.62875GHz_T01_TX_RSE_75_95GHz_EUT_0_AntV

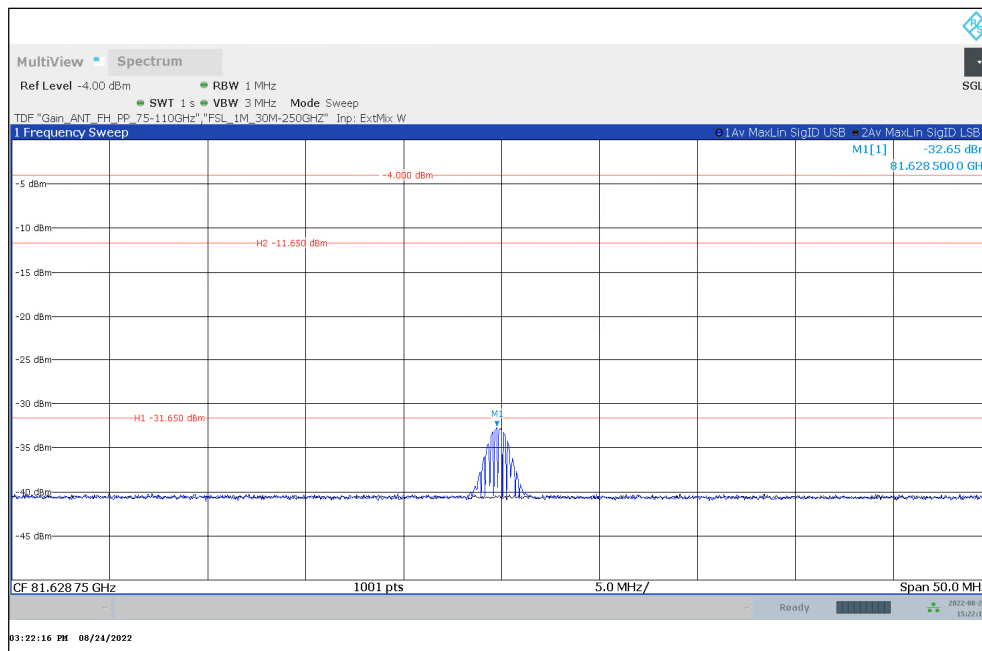


➔ Ghost frequency

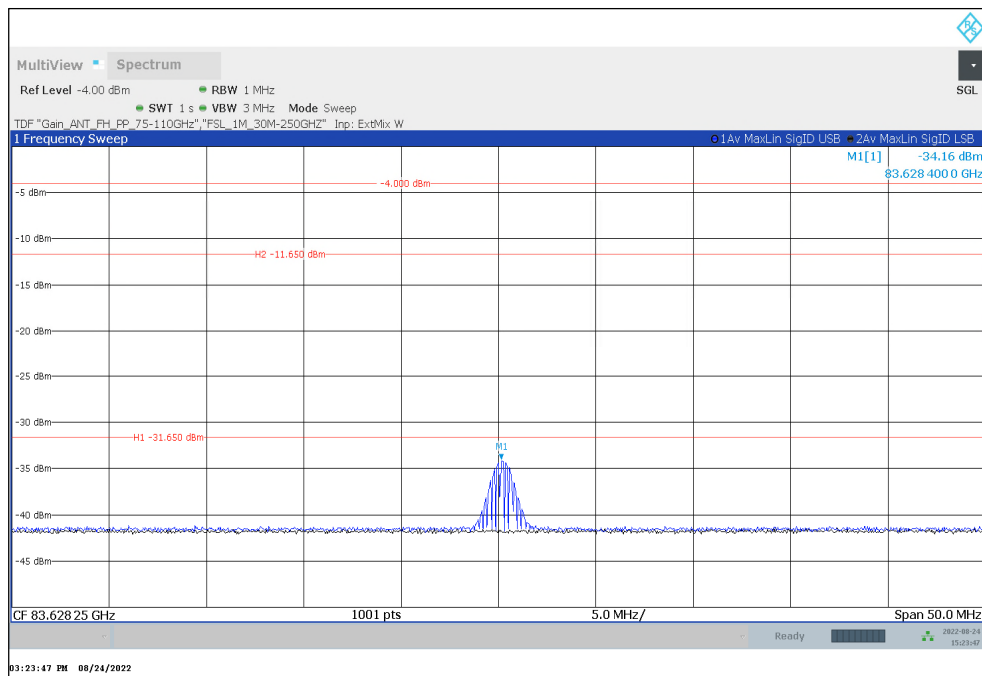
D135_14__80.99425GHz_T01_TX_RSE_75_95GHz_EUT_0_AntV



➔ Wanted signal (high frequency of operating range)

D135_14__81.62875GHz_T01_TX_RSE_75_95GHz_EUT_0_AntV

➔ Ghost frequency

D135_14__83.62825GHz_T01_TX_RSE_75_95GHz_EUT_0_AntV

➔ Ghost frequency