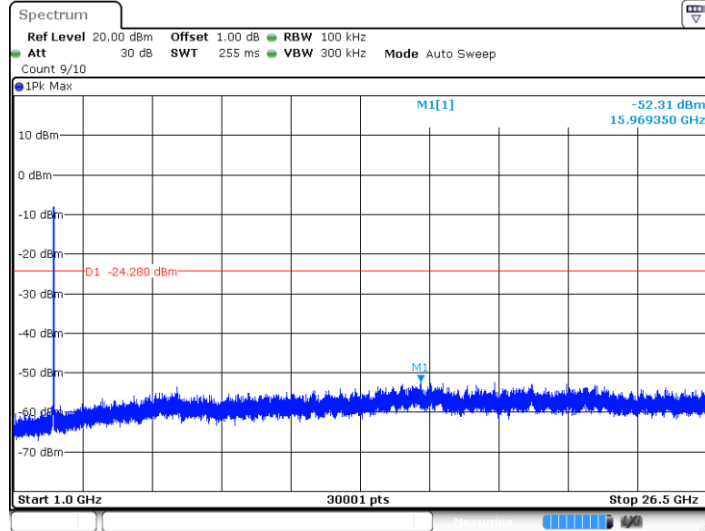
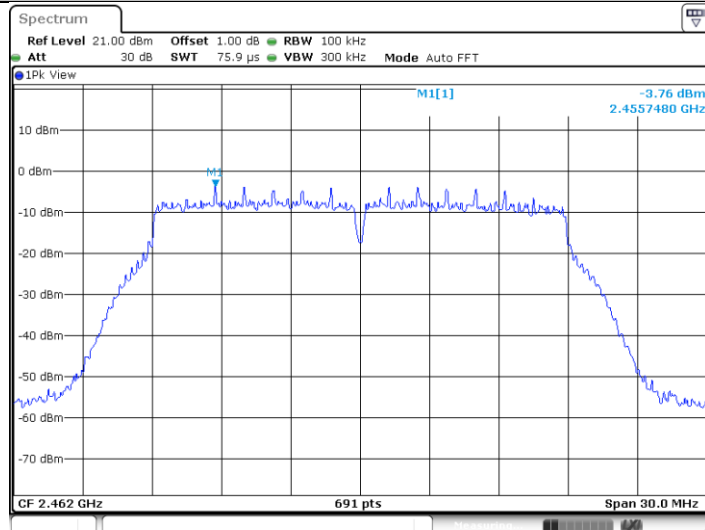


11N20MIMO\_Ant0\_2462\_1000~26500



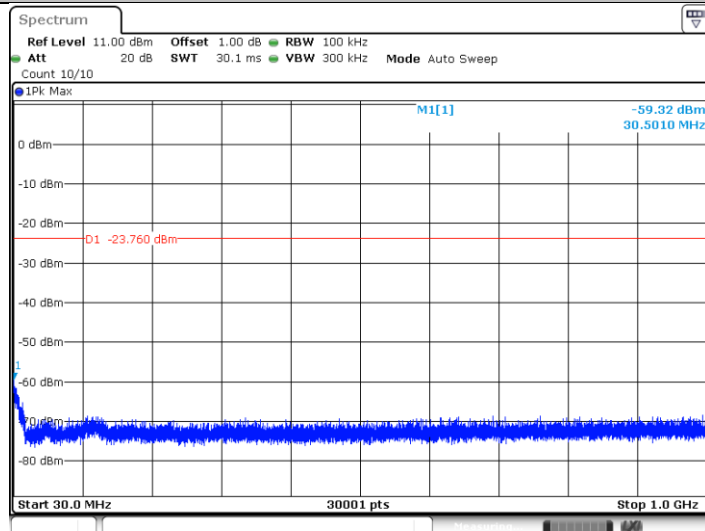
Date: 29 SEP.2021 17:00:23

11N20MIMO\_Ant1\_2462\_0~Reference



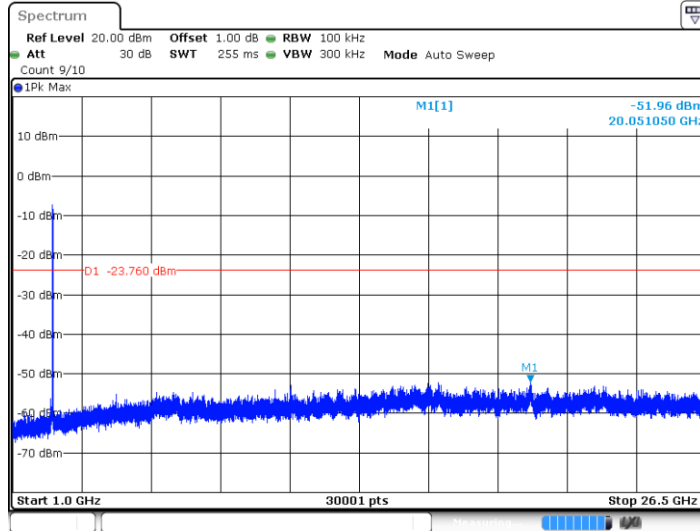
Date: 29 SEP.2021 17:02:08

11N20MIMO\_Ant1\_2462\_30~1000



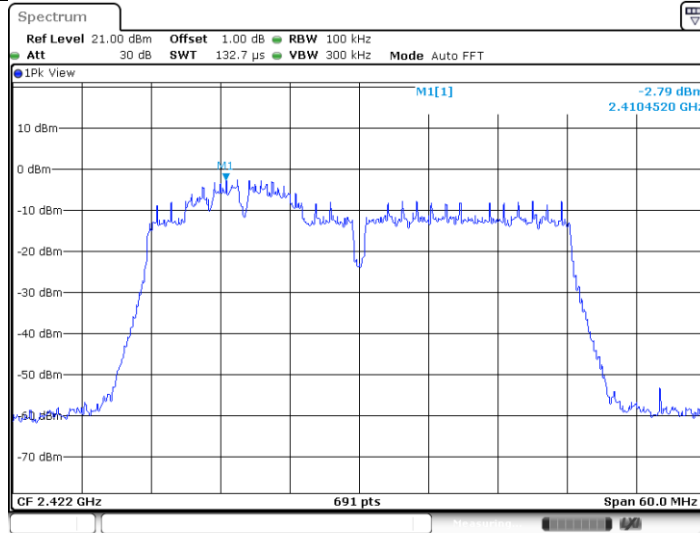
Date: 29 SEP.2021 17:02:14

11N20MIMO\_Ant1\_2462\_1000~26500



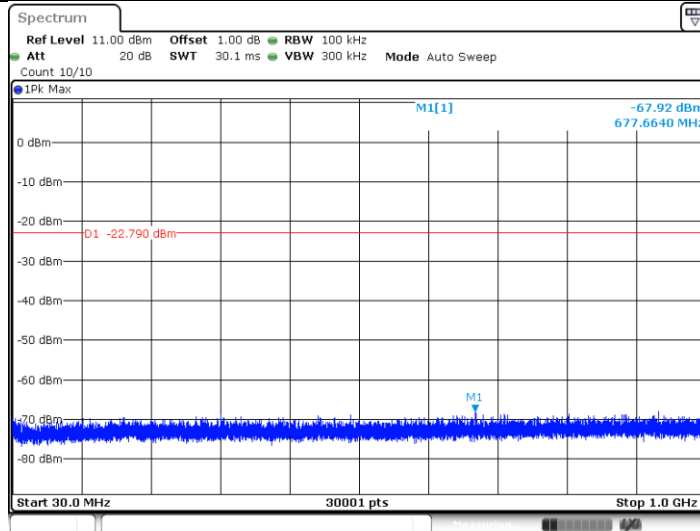
Date: 29 SEP 2021 17:02:22

11N40MIMO\_Ant0\_2422\_0~Reference



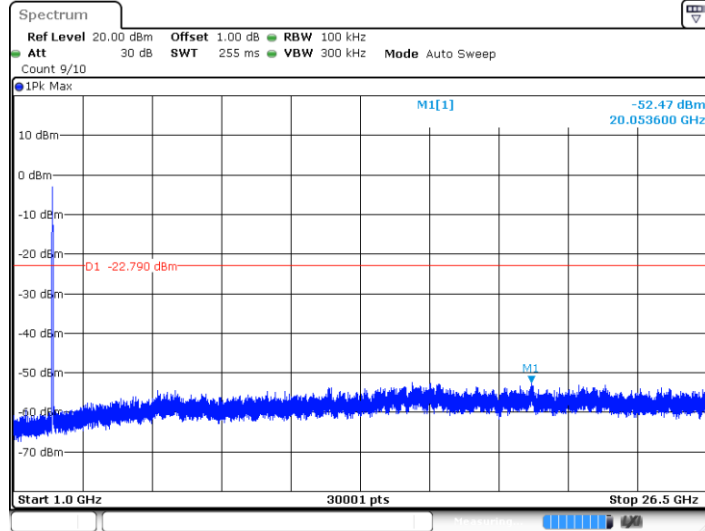
Date: 29 SEP 2021 17:11:41

11N40MIMO\_Ant0\_2422\_30~1000



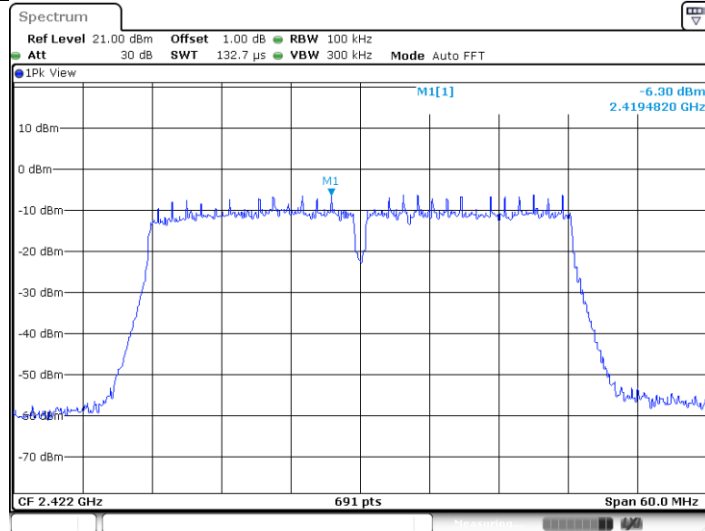
Date: 29 SEP 2021 17:11:47

11N40MIMO\_Ant0\_2422\_1000~26500



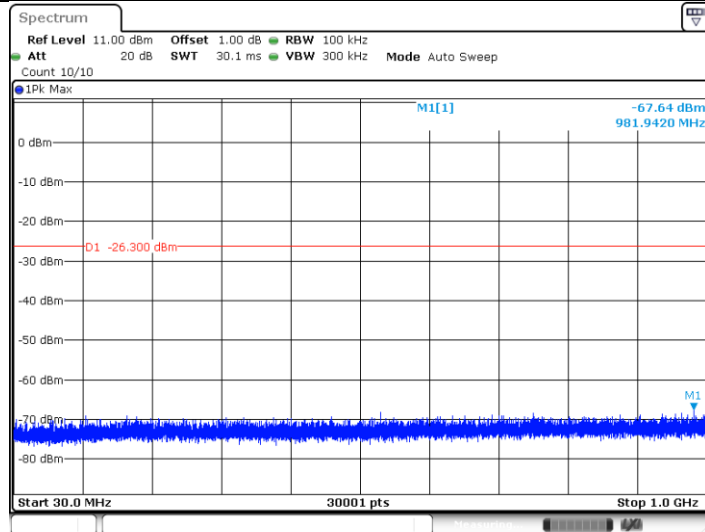
Date: 29 SEP.2021 17:11:55

11N40MIMO\_Ant1\_2422\_0~Reference



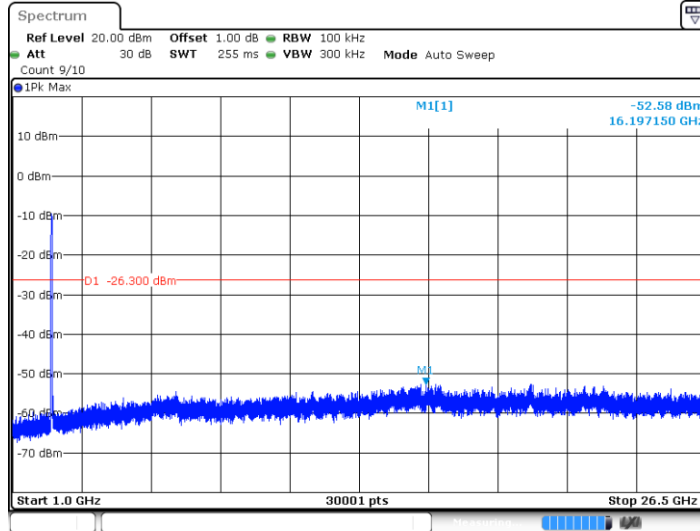
Date: 29 SEP.2021 17:21:16

11N40MIMO\_Ant1\_2422\_30~1000



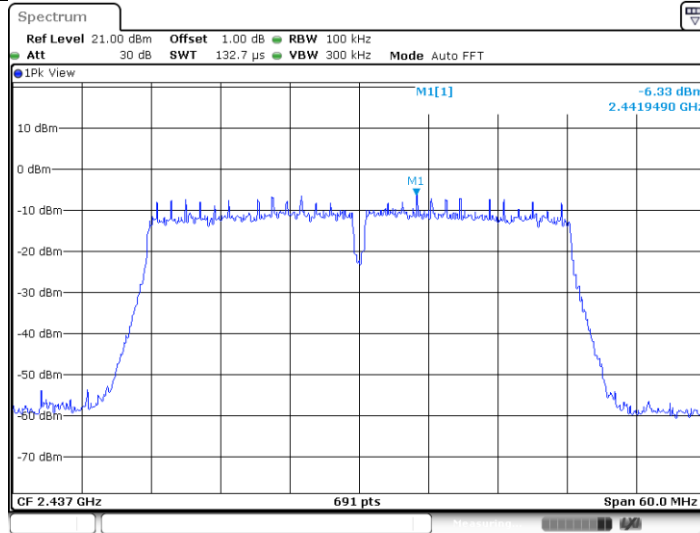
Date: 29 SEP.2021 17:21:22

11N40MIMO\_Ant1\_2422\_1000~26500



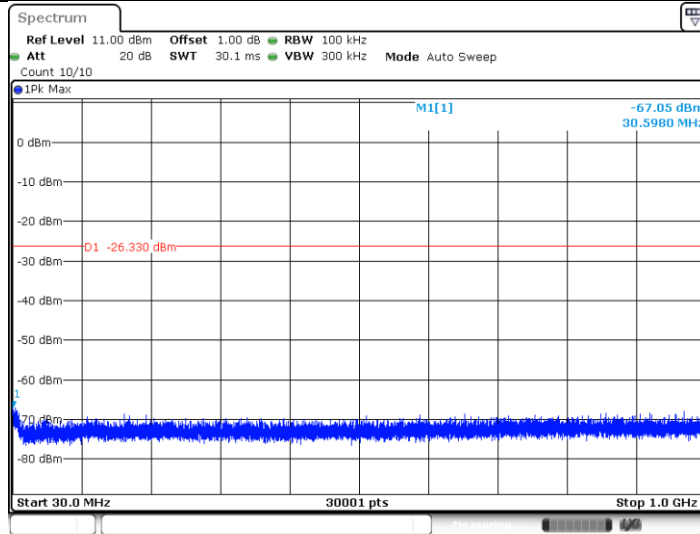
Date: 29 SEP 2021 17:21:30

11N40MIMO\_Ant0\_2437\_0~Reference



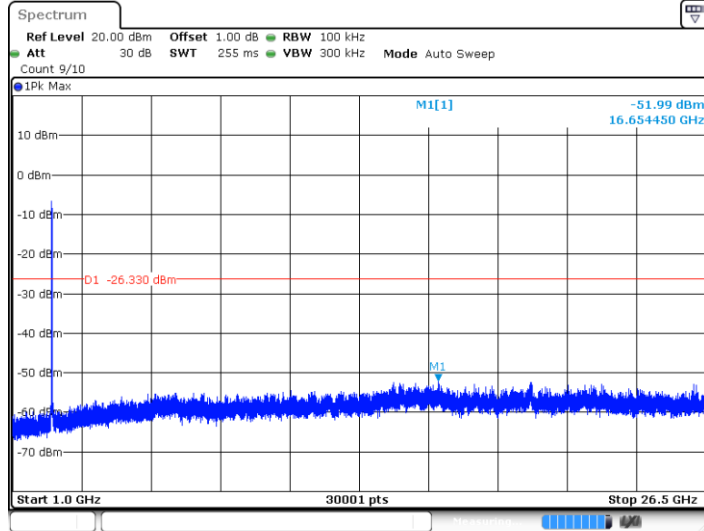
Date: 29 SEP 2021 17:25:22

11N40MIMO\_Ant0\_2437\_30~1000



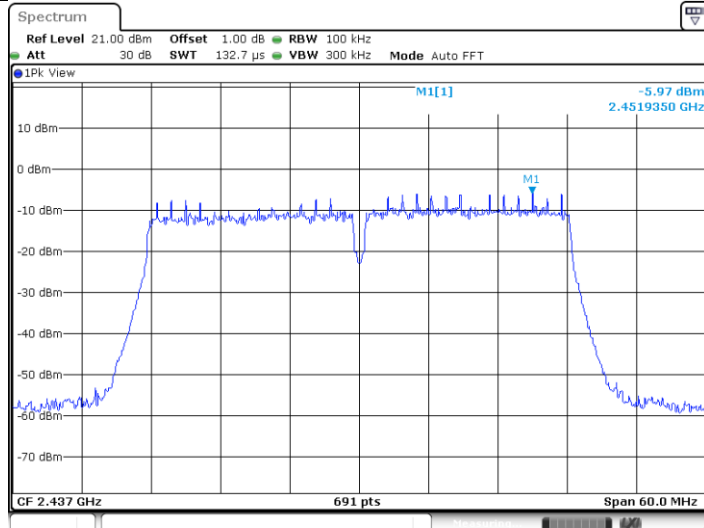
Date: 29 SEP 2021 17:25:28

11N40MIMO\_Ant0\_2437\_1000~26500



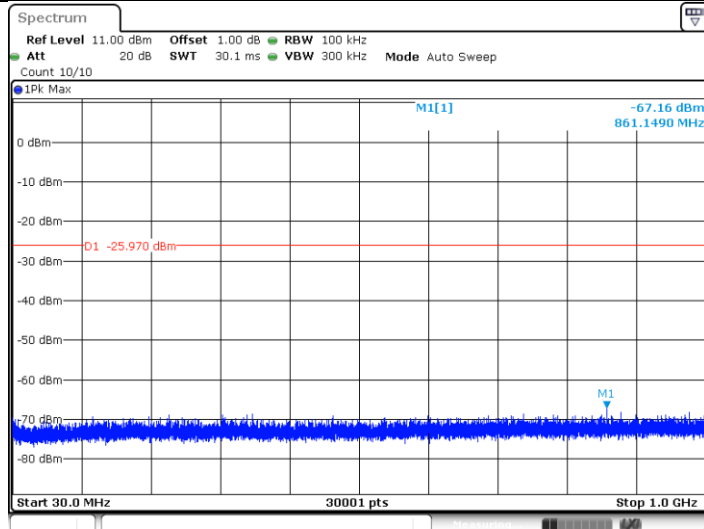
Date: 29 SEP. 2021 17:25:36

11N40MIMO\_Ant1\_2437\_0~Reference



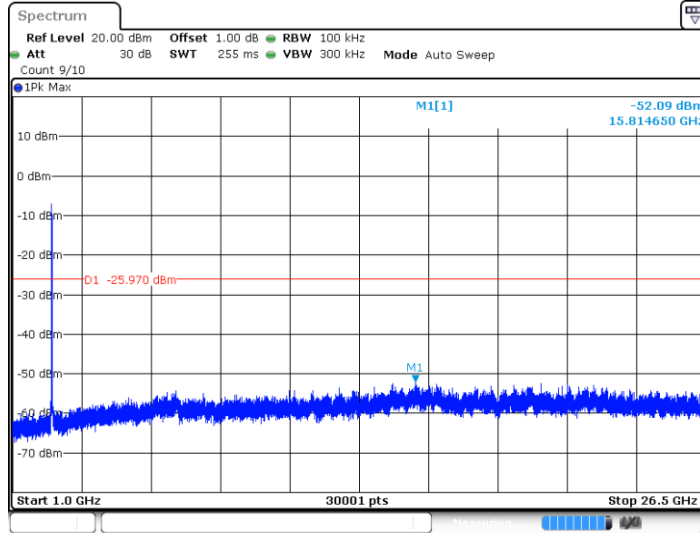
Date: 29 SEP. 2021 17:27:25

11N40MIMO\_Ant1\_2437\_30~1000



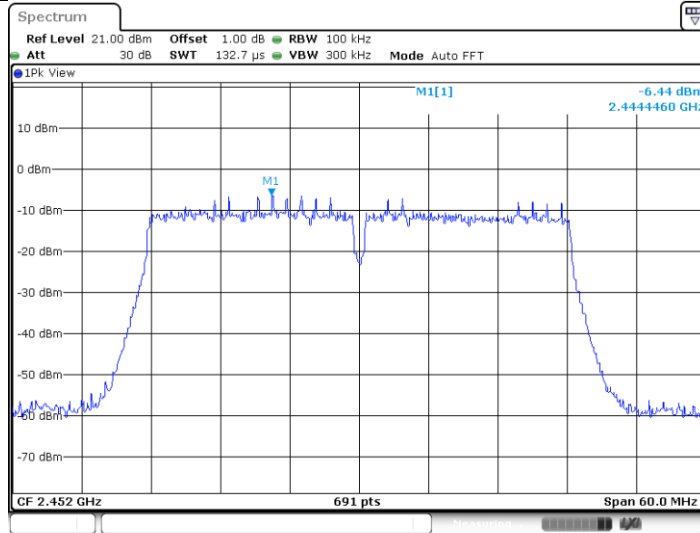
Date: 29 SEP. 2021 17:27:31

11N40MIMO\_Ant1\_2437\_1000~26500



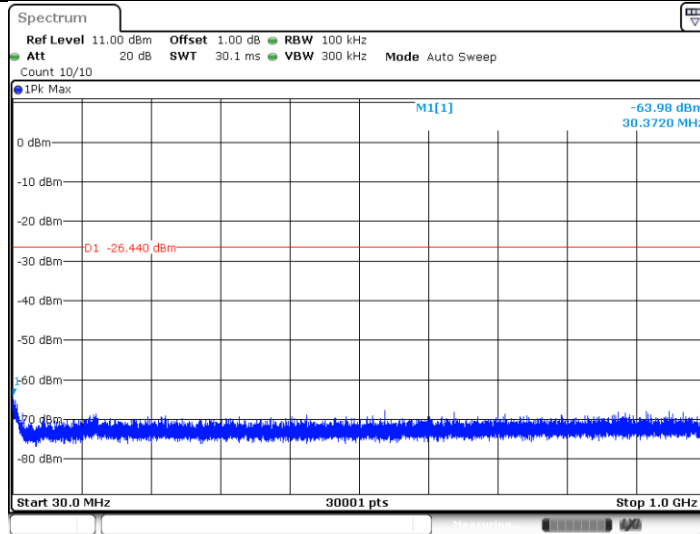
Date: 29 SEP 2021 17:27:38

11N40MIMO\_Ant0\_2452\_0~Reference



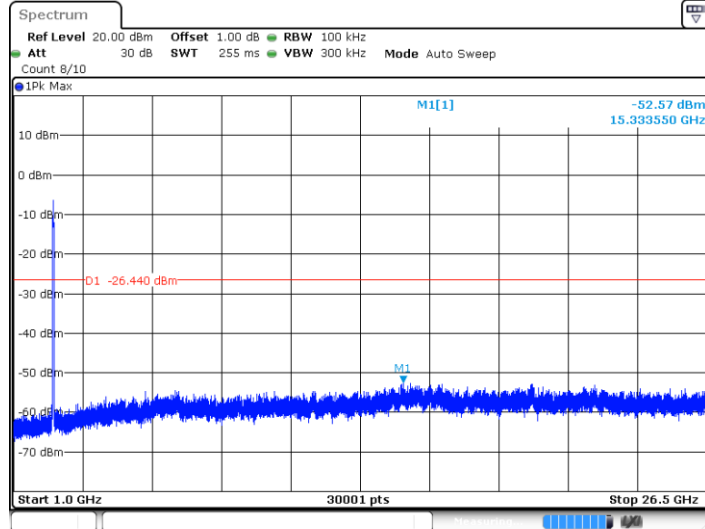
Date: 29 SEP 2021 17:30:40

11N40MIMO\_Ant0\_2452\_30~1000



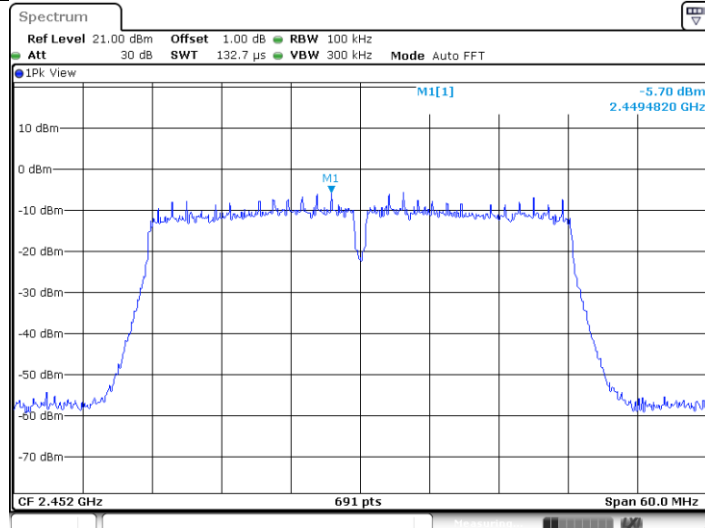
Date: 29 SEP 2021 17:30:46

11N40MIMO\_Ant0\_2452\_1000~26500



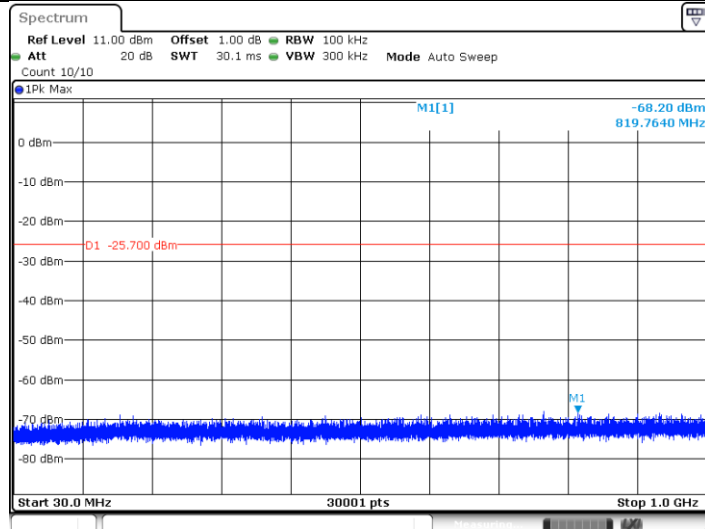
Date: 29 SEP. 2021 17:30:54

11N40MIMO\_Ant1\_2452\_0~Reference



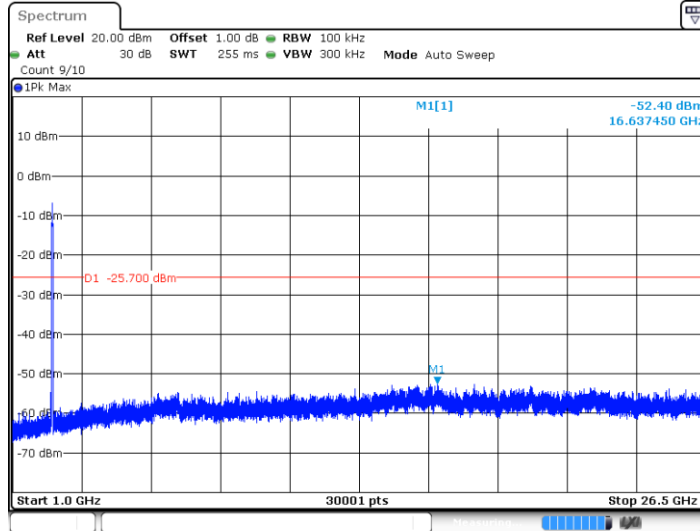
Date: 29 SEP. 2021 17:32:29

11N40MIMO\_Ant1\_2452\_30~1000



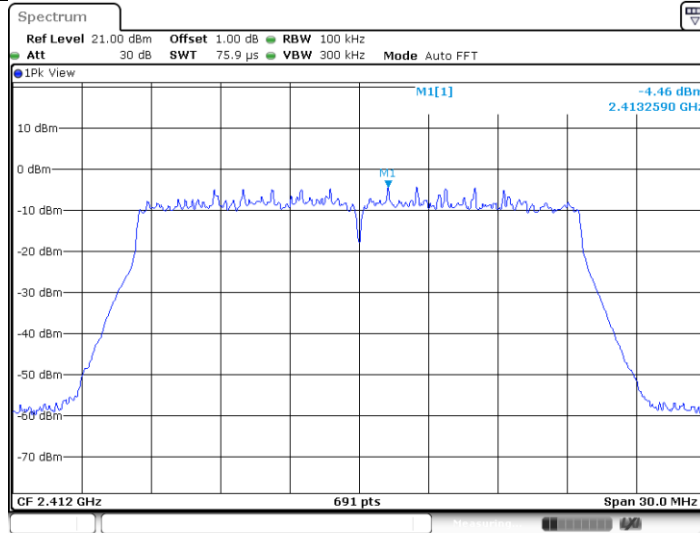
Date: 29 SEP. 2021 17:32:35

11N40MIMO\_Ant1\_2452\_1000~26500



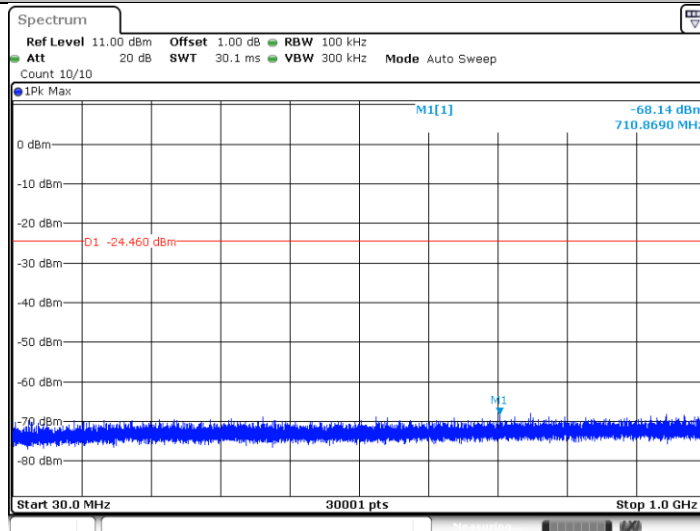
Date: 29 SEP 2021 17:32:43

11AX20MIMO\_Ant0\_2412\_0-Reference



Date: 29 SEP 2021 17:35:03

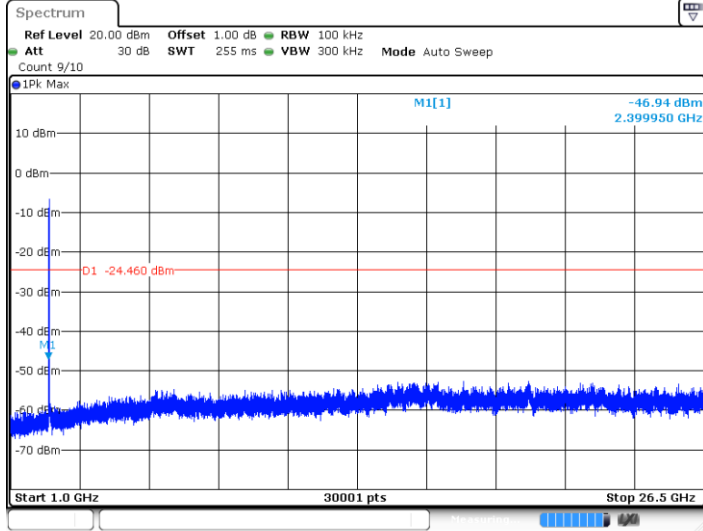
11AX20MIMO\_Ant0\_2412\_30-1000



Date: 29 SEP 2021 17:35:09

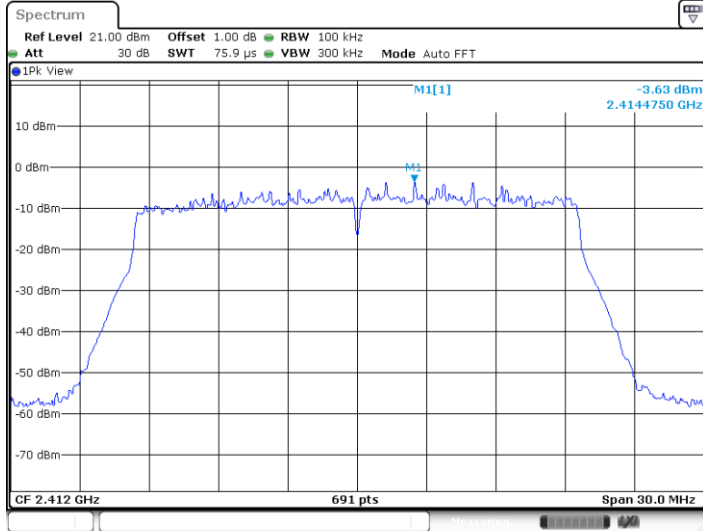


11AX20MIMO\_Ant0\_2412\_1000~26500



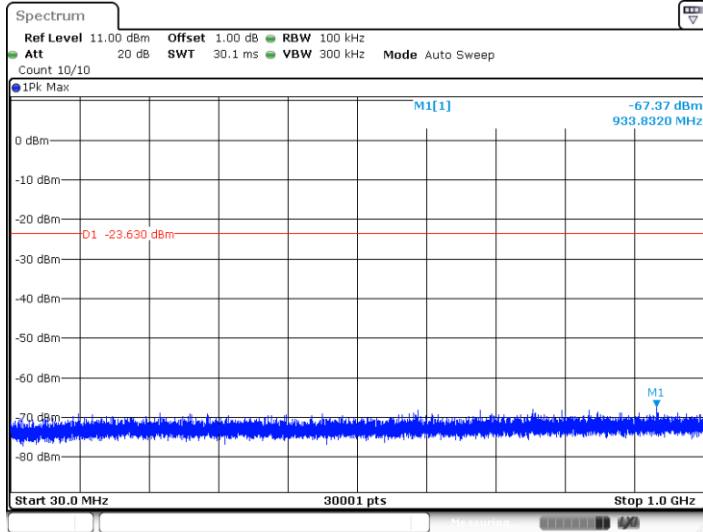
Date: 29 SEP. 2021 17:35:17

11AX20MIMO\_Ant1\_2412\_0-Reference



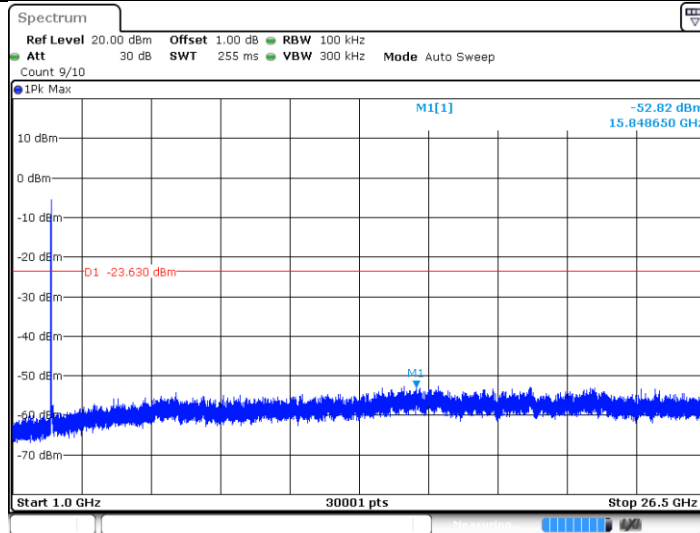
Date: 29 SEP. 2021 17:36:55

11AX20MIMO\_Ant1\_2412\_30~1000



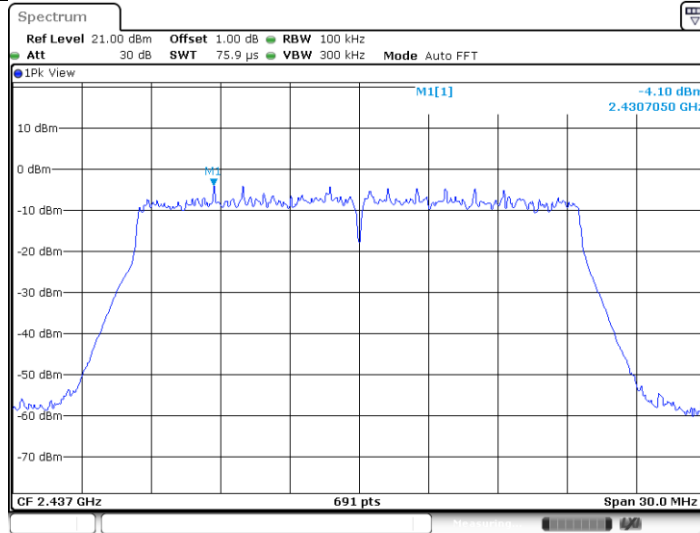
Date: 29 SEP. 2021 17:37:02

11AX20MIMO\_Ant1\_2412\_1000~26500



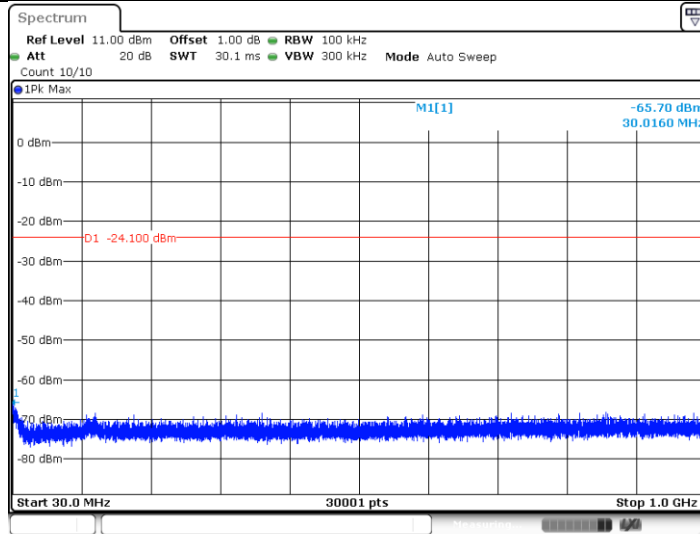
Date: 29 SEP 2021 17:37:09

11AX20MIMO\_Ant0\_2437\_0-Reference



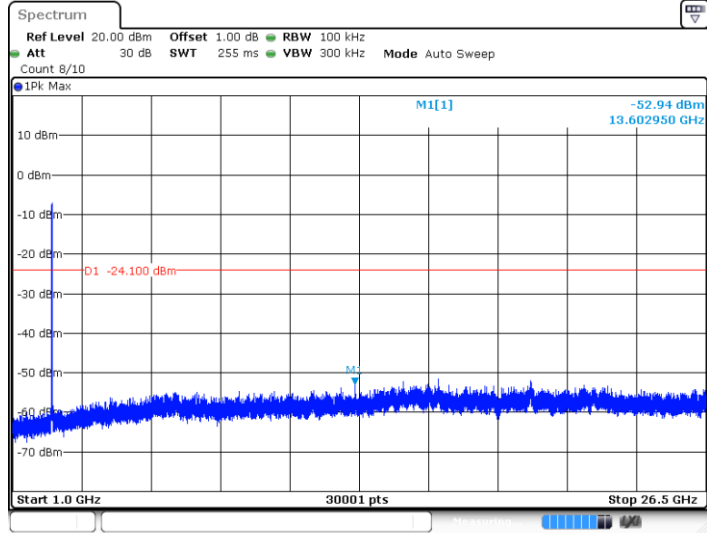
Date: 29 SEP 2021 17:41:59

11AX20MIMO\_Ant0\_2437\_30~1000



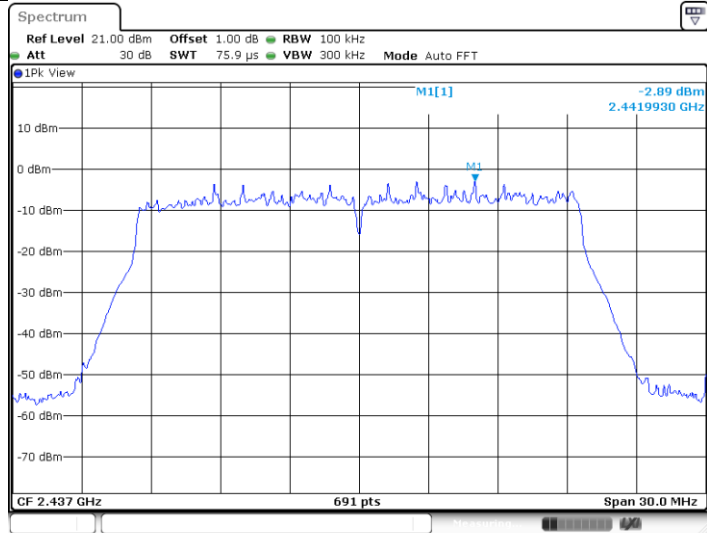
Date: 29 SEP 2021 17:42:05

11AX20MIMO\_Ant0\_2437\_1000~26500



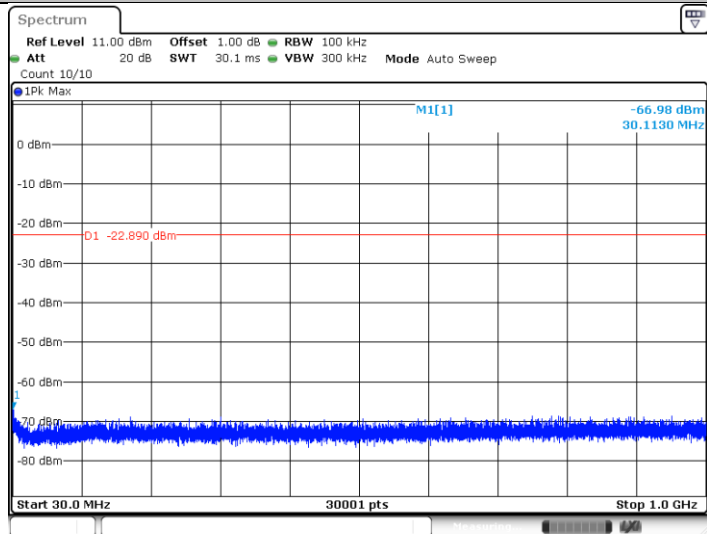
Date: 29 SEP. 2021 17:42:13

11AX20MIMO\_Ant1\_2437\_0-Reference



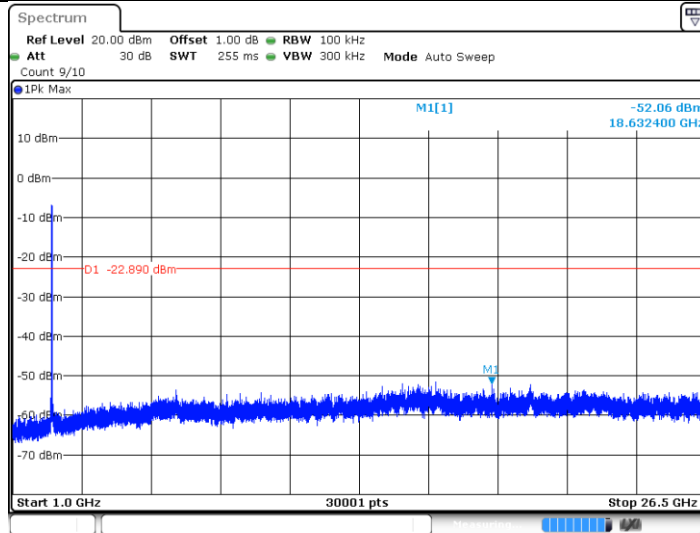
Date: 29 SEP. 2021 17:43:57

11AX20MIMO\_Ant1\_2437\_30~1000



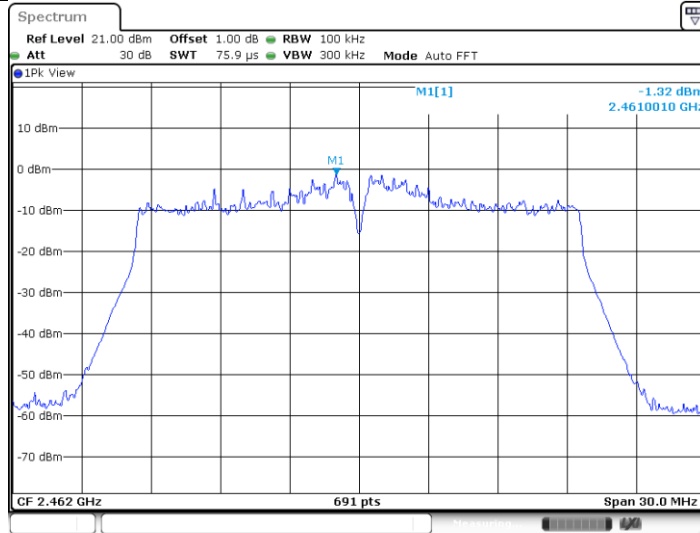
Date: 29 SEP. 2021 17:44:03

11AX20MIMO\_Ant1\_2437\_1000~26500



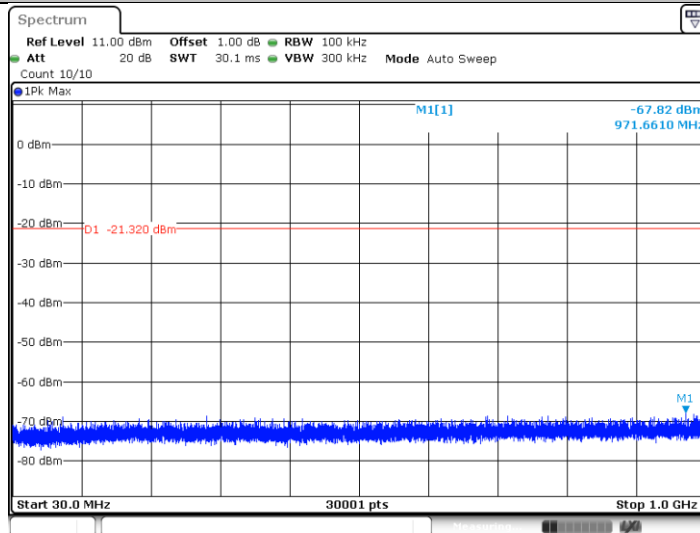
Date: 29 SEP 2021 17:44:11

11AX20MIMO\_Ant0\_2462\_0~Reference



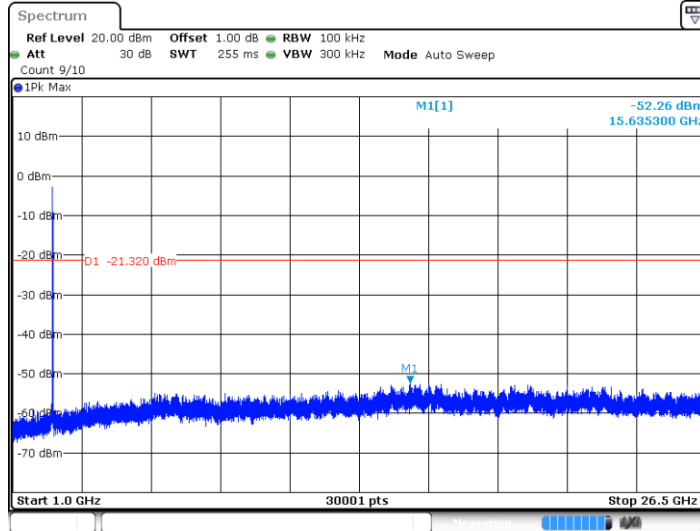
Date: 29 SEP 2021 17:45:53

11AX20MIMO\_Ant0\_2462\_30~1000



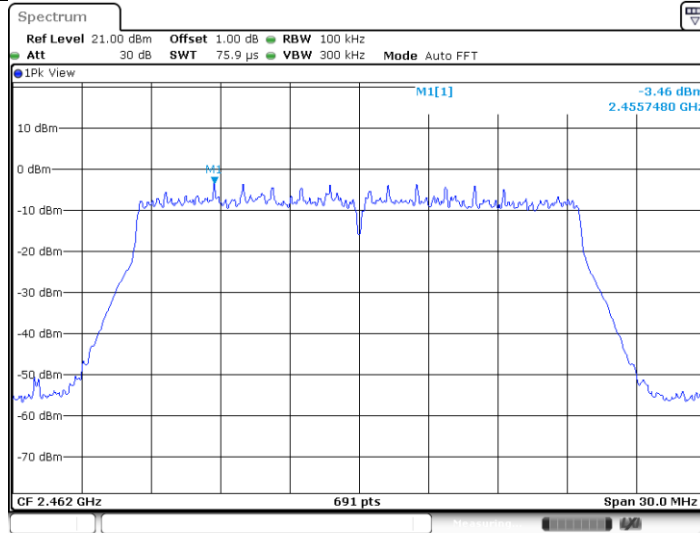
Date: 29 SEP 2021 17:45:59

11AX20MIMO\_Ant0\_2462\_1000~26500



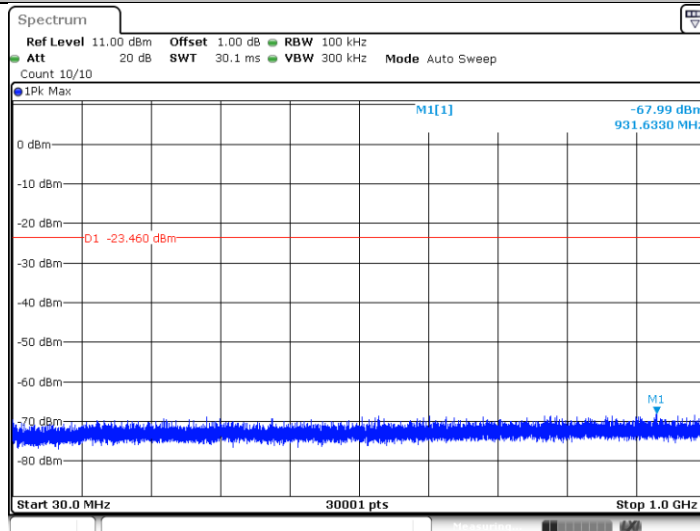
Date: 29 SEP 2021 17:46:07

11AX20MIMO\_Ant1\_2462\_0~Reference

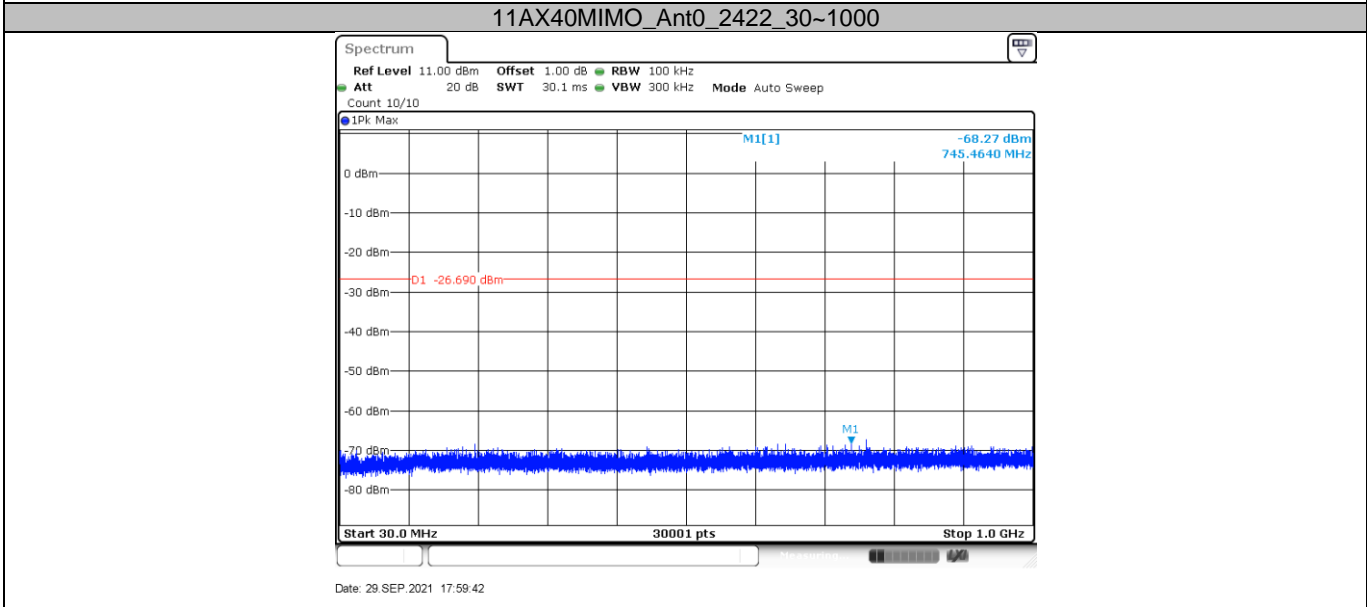
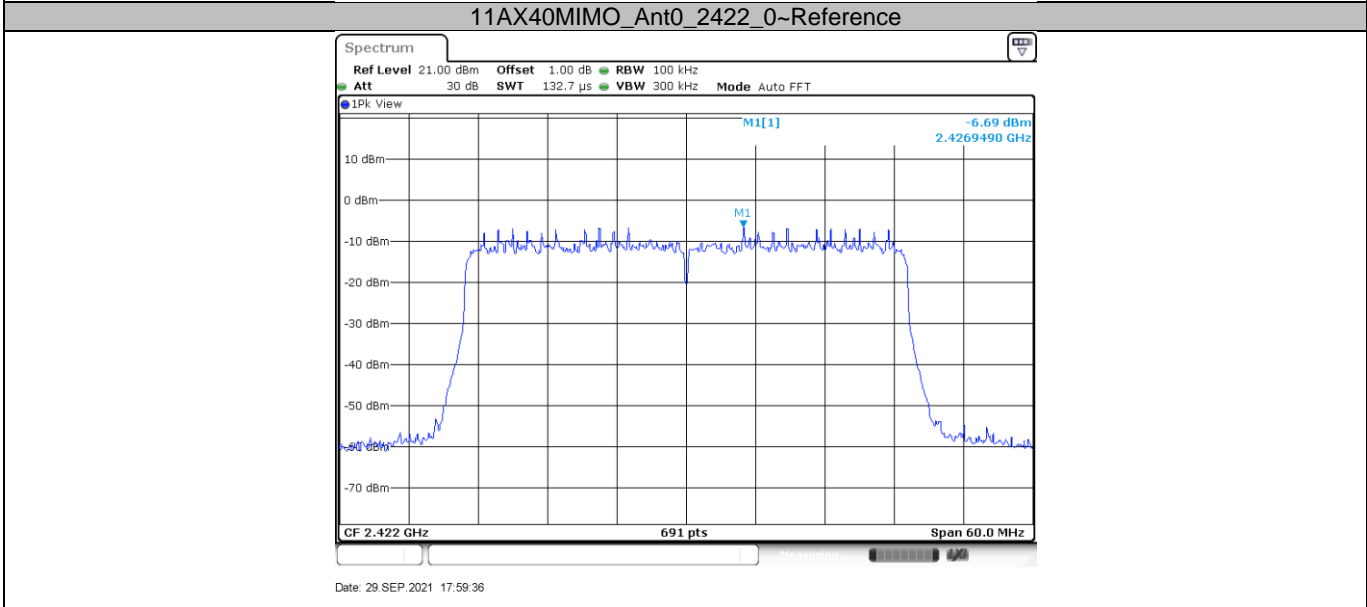
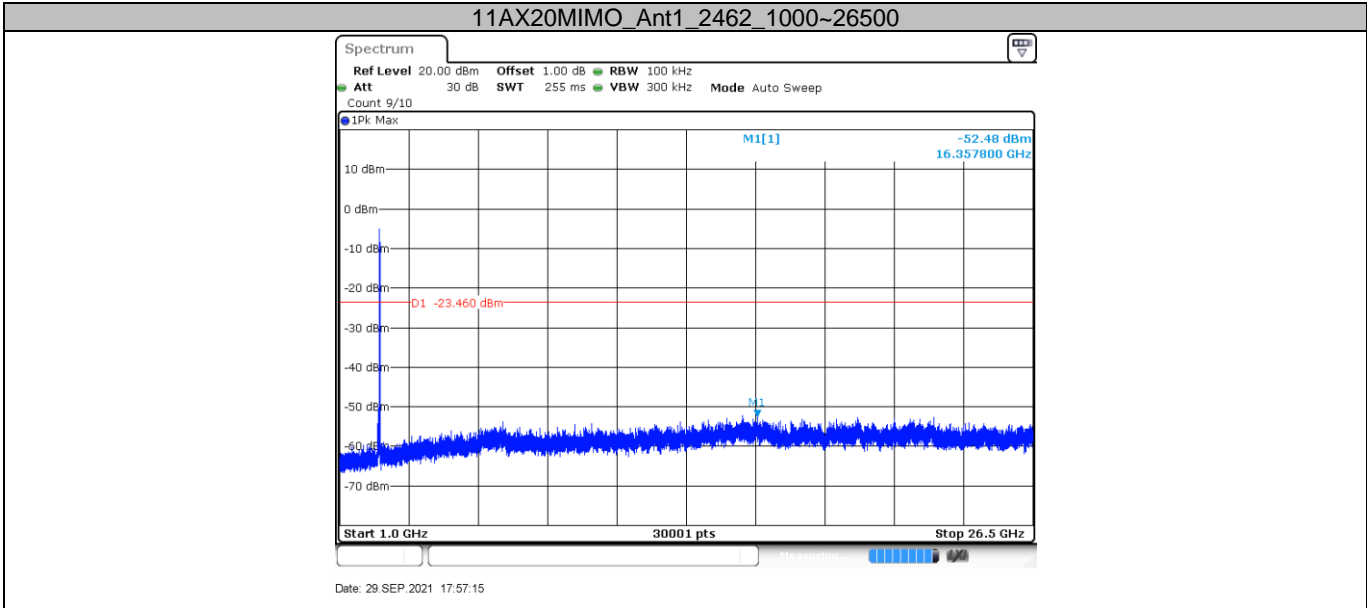


Date: 29 SEP 2021 17:57:01

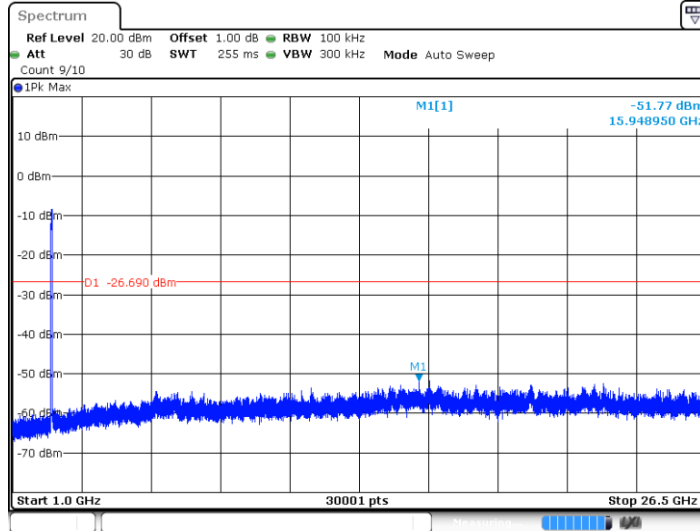
11AX20MIMO\_Ant1\_2462\_30~1000



Date: 29 SEP 2021 17:57:07

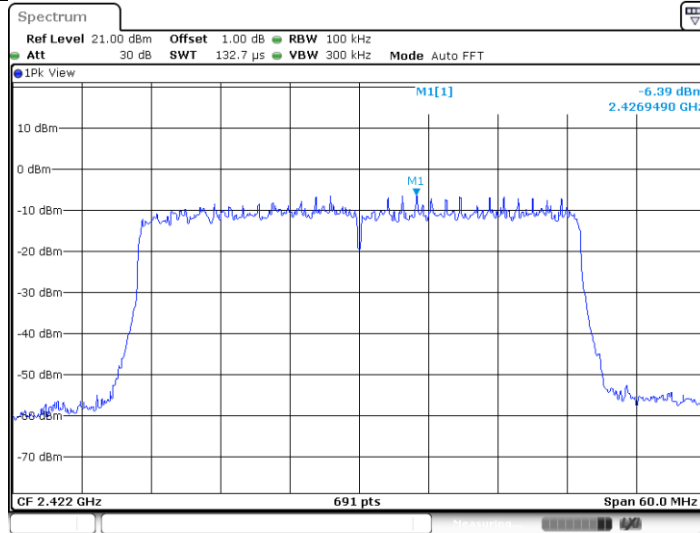


11AX40MIMO\_Ant0\_2422\_1000~26500



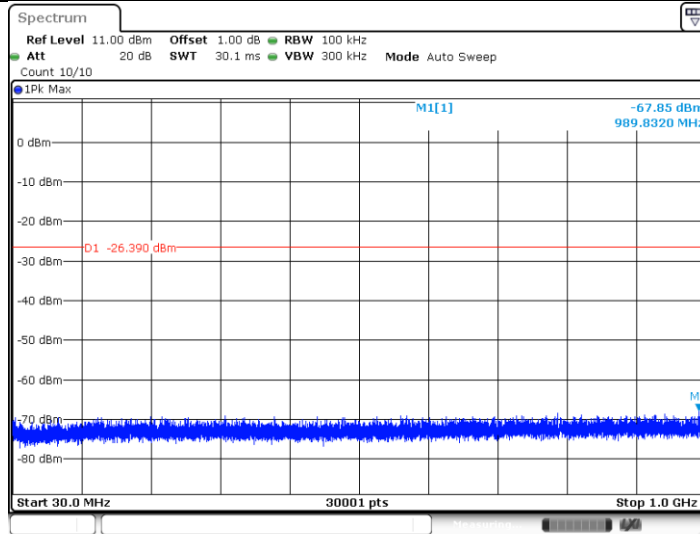
Date: 29 SEP 2021 17:59:50

11AX40MIMO\_Ant1\_2422\_0-Reference



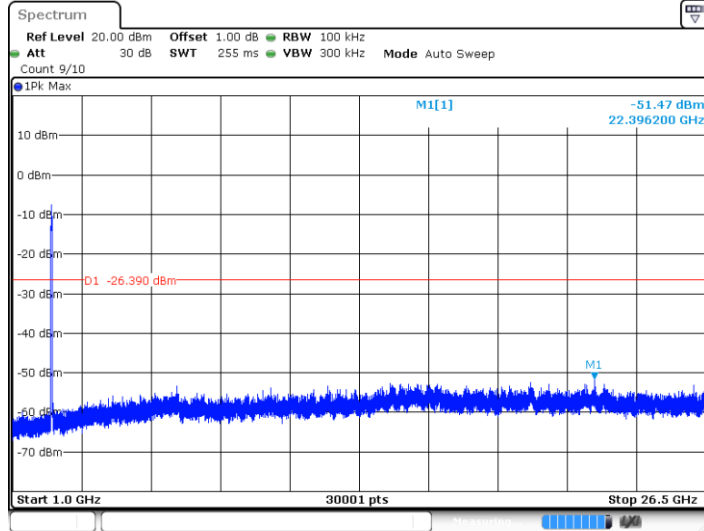
Date: 29 SEP 2021 18:03:45

11AX40MIMO\_Ant1\_2422\_30-1000



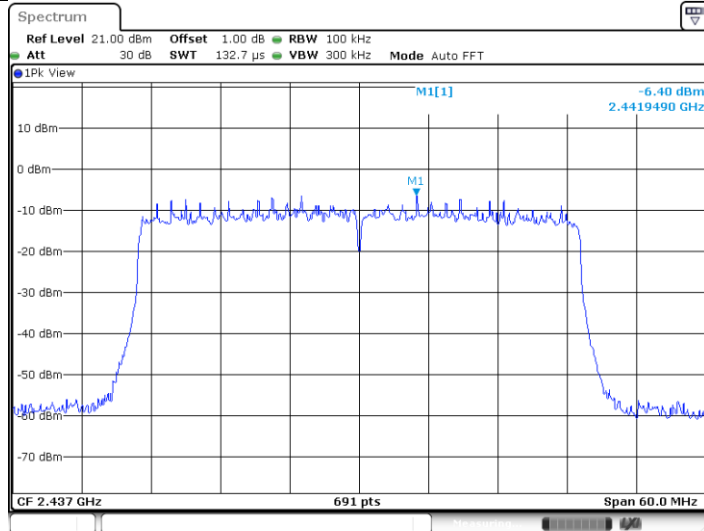
Date: 29 SEP 2021 18:03:51

11AX40MIMO\_Ant1\_2422\_1000~26500



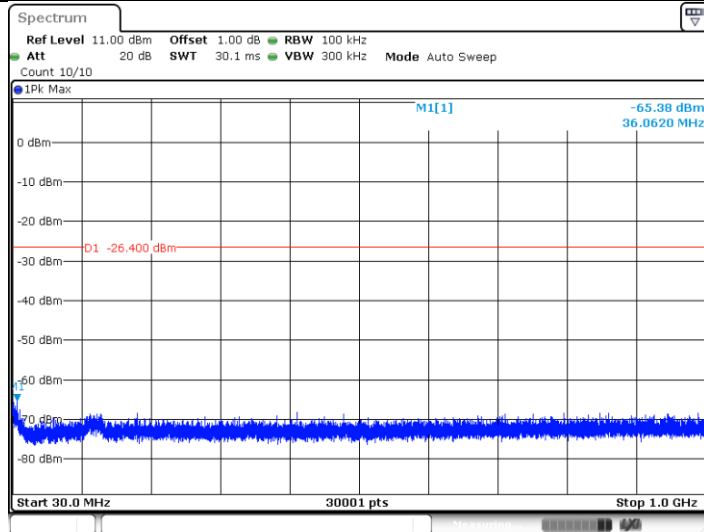
Date: 29 SEP. 2021 18:03:59

11AX40MIMO\_Ant0\_2437\_0-Reference



Date: 29 SEP 2021 18:05:44

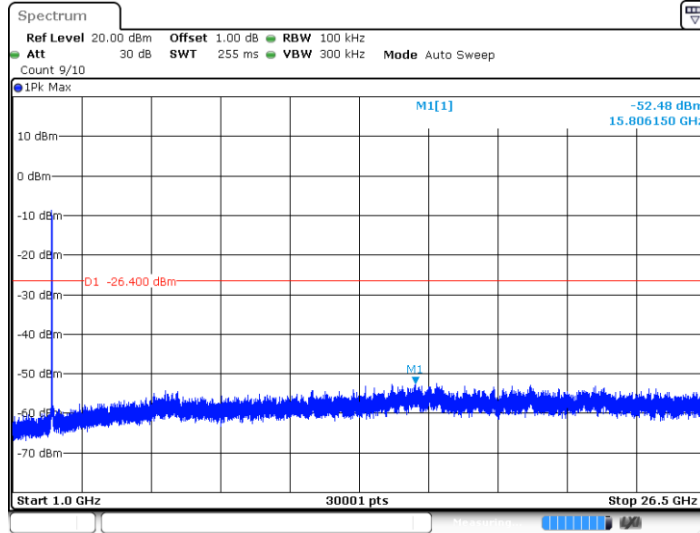
11AX40MIMO\_Ant0\_2437\_30~1000



Date: 29 SEP. 2021 18:05:50

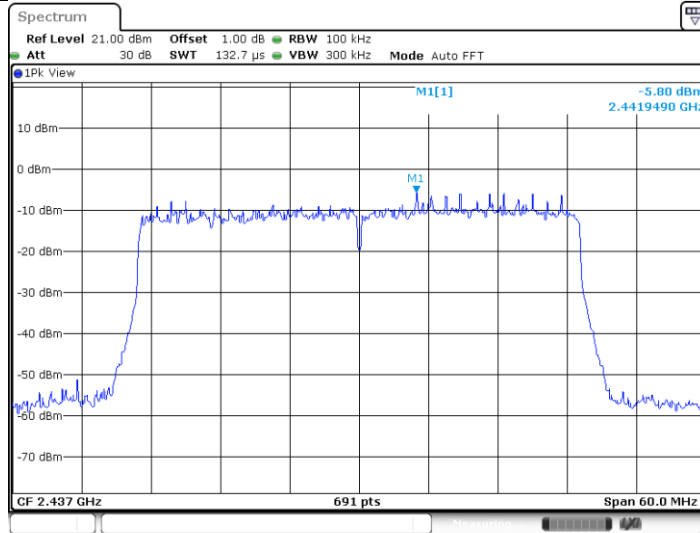
11AX40MIMO\_Ant0\_2437\_1000~26500





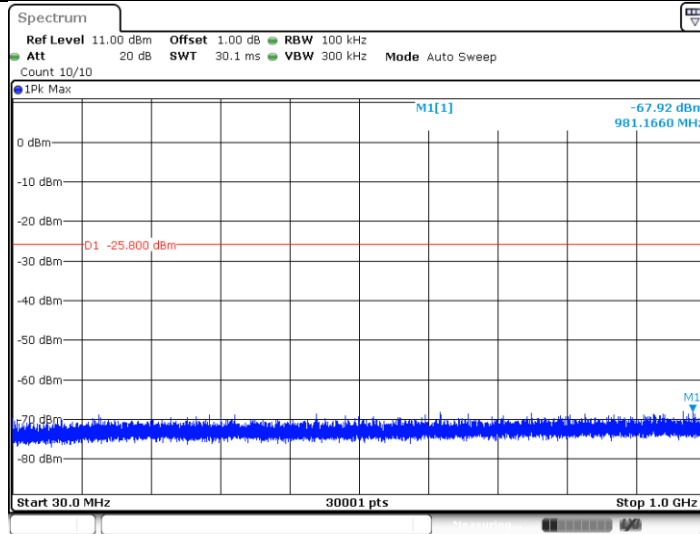
Date: 29 SEP 2021 18:05:58

11AX40MIMO\_Ant1\_2437\_0~Reference

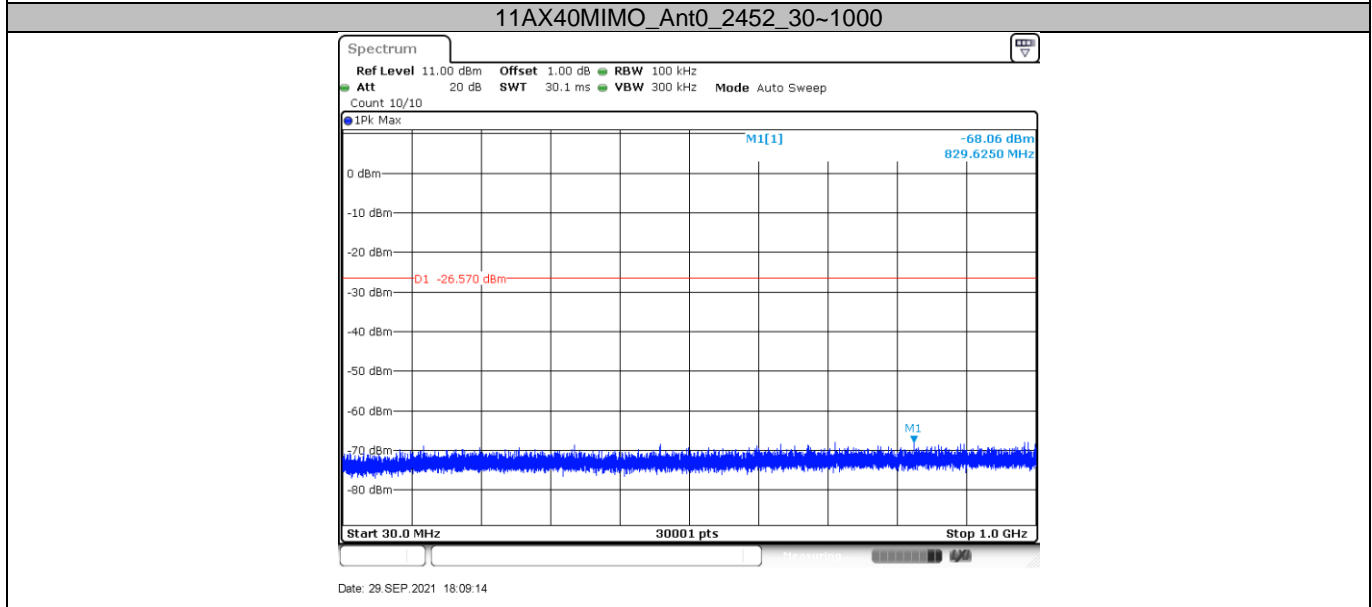
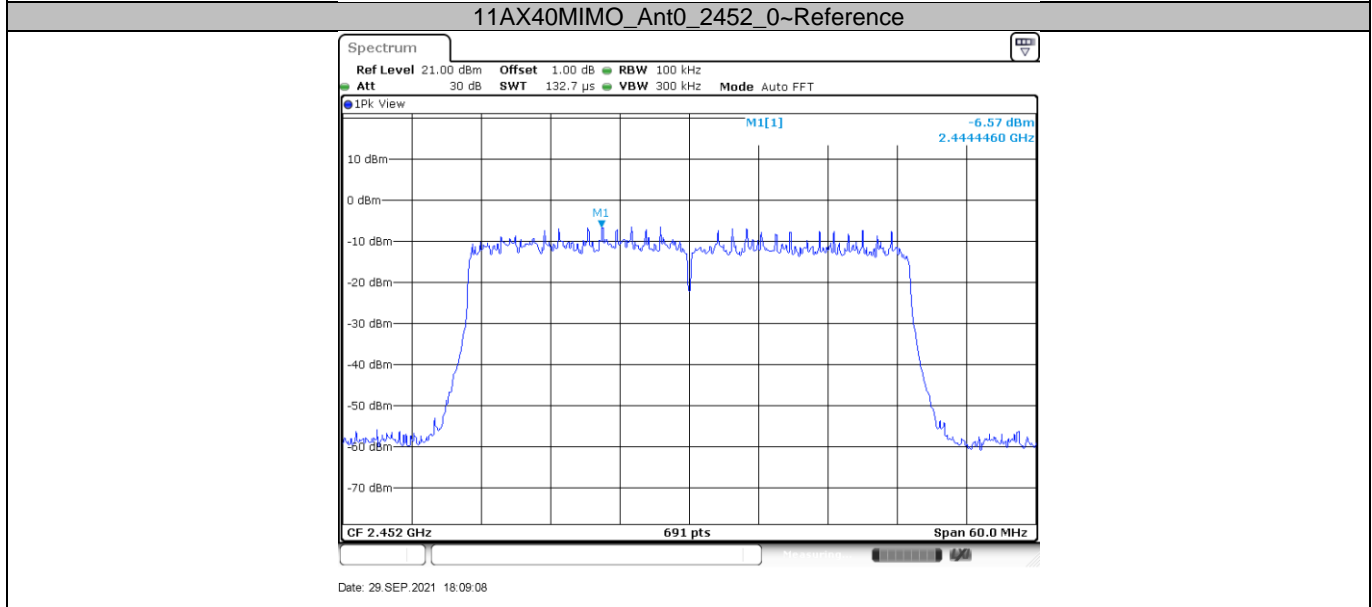
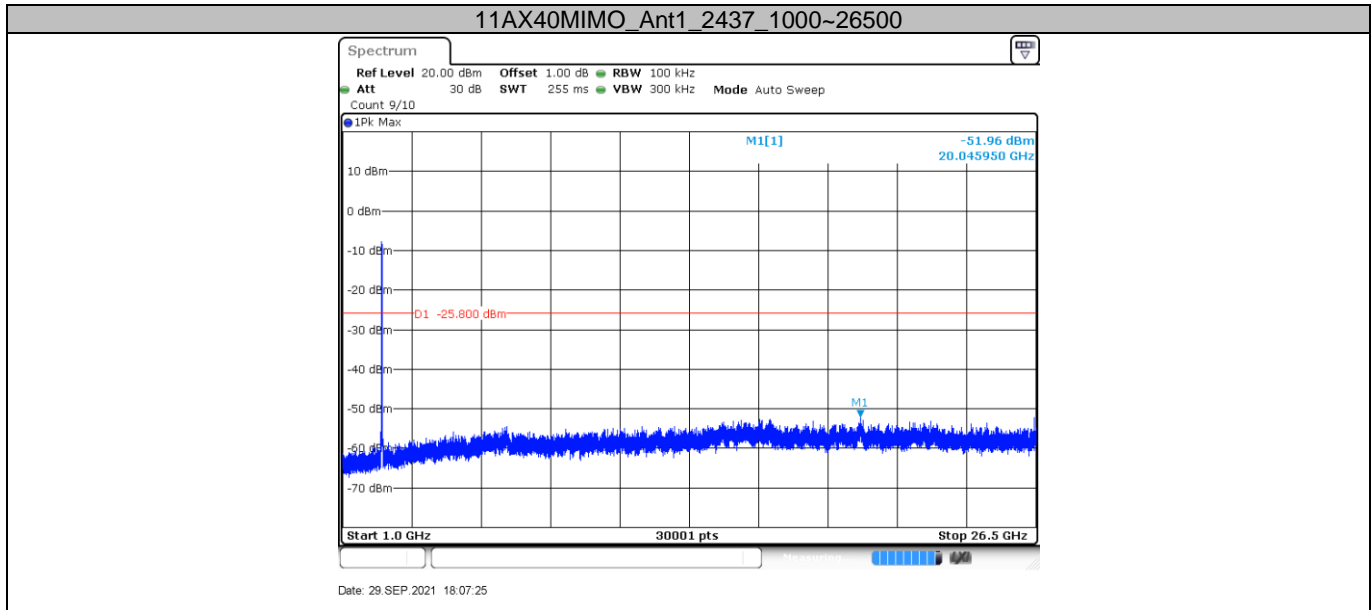


Date: 29 SEP 2021 18:07:11

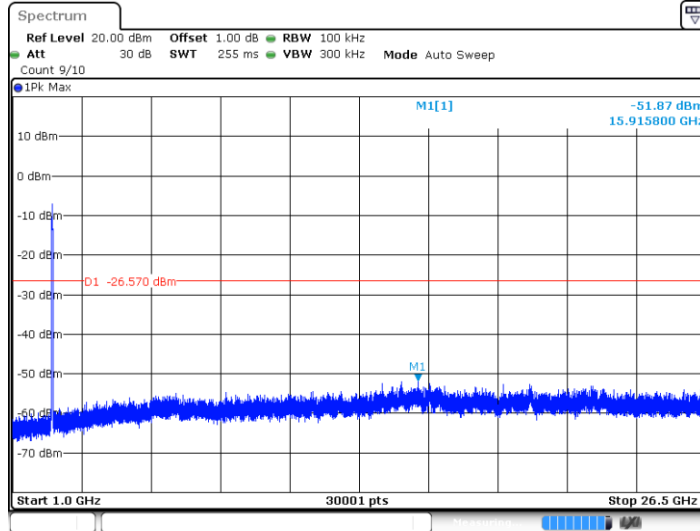
11AX40MIMO\_Ant1\_2437\_30~1000



Date: 29 SEP 2021 18:07:17

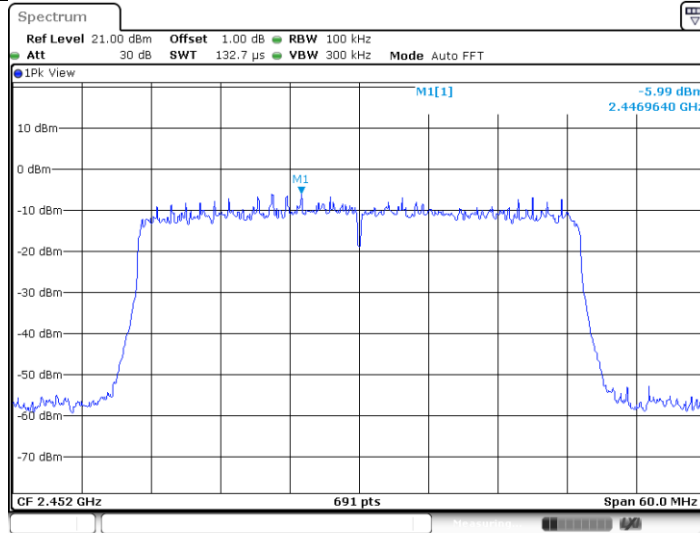


### 11AX40MIMO\_Ant0\_2452\_1000~26500



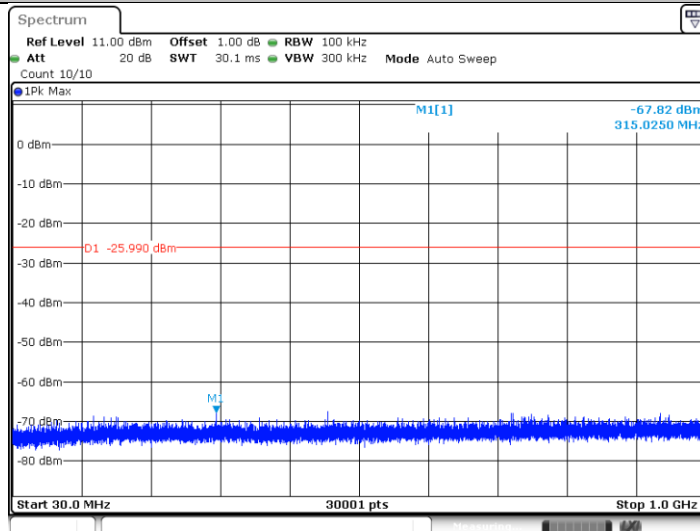
Date: 29 SEP 2021 18:09:22

11AX40MIMO\_Ant1\_2452\_0-Reference



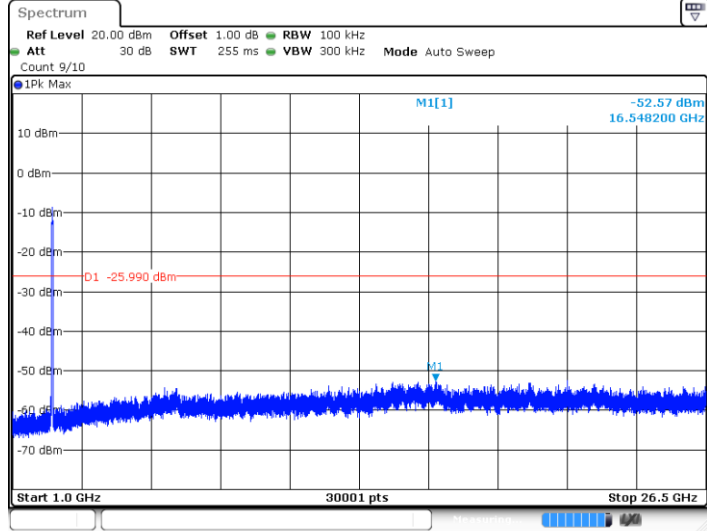
Date: 29 SEP 2021 18:11:27

11AX40MIMO\_Ant1\_2452\_30~1000



Date: 29 SEP 2021 18:11:33

11AX40MIMO\_Ant1\_2452\_1000~26500



Date: 29.SEP.2021 18:11:41



## 9.7 Band edge

### Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Use the following spectrum analyzer settings:  
Span = wide enough to capture the peak level of the in-band emission and all spurious  
RBW = 100 kHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
3. Allow the trace to stabilize, use the peak and delta measurement to record the result.  
The level displayed must comply with the limit specified in this Section.
4. The level displayed must comply with the limit specified in this Section.
5. Repeat the test at the hopping off and hopping on mode, submit all the plots.

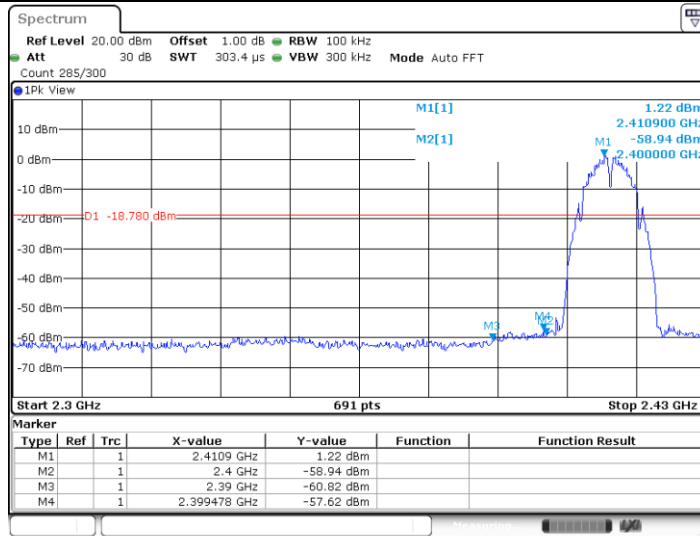
### Limit:

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c))

Frequency Range MHz	Limit (dBc)
30-25000	-20

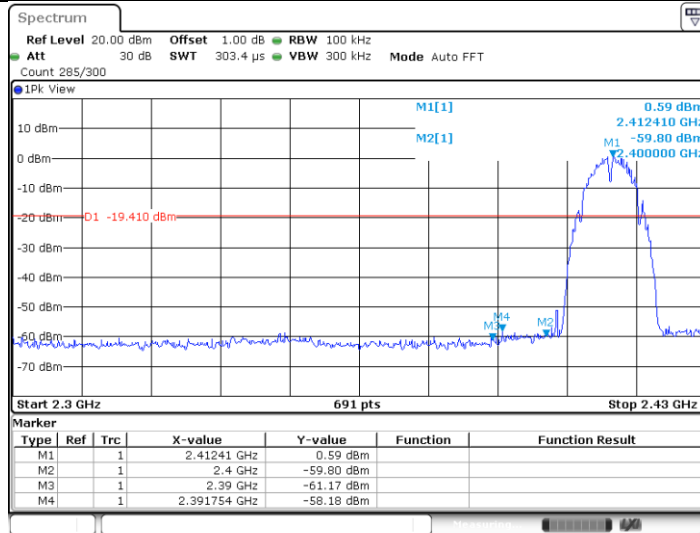
**Test result**

**11B\_Ant0\_Low\_2412**



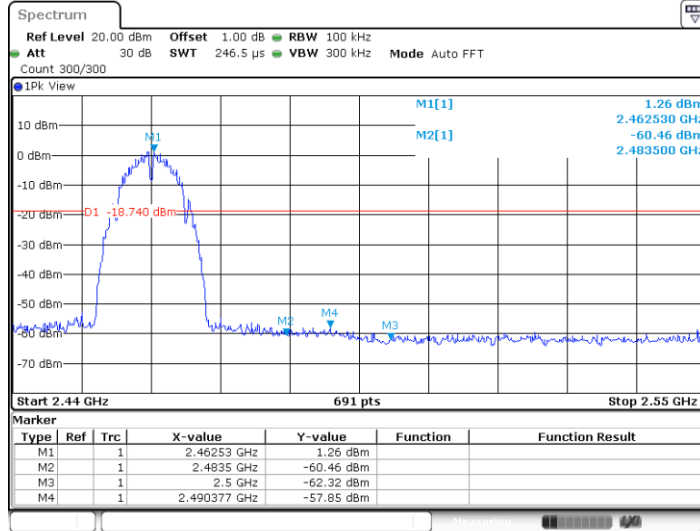
Date: 29 SEP 2021 16:10:32

**11B\_Ant1\_Low\_2412**



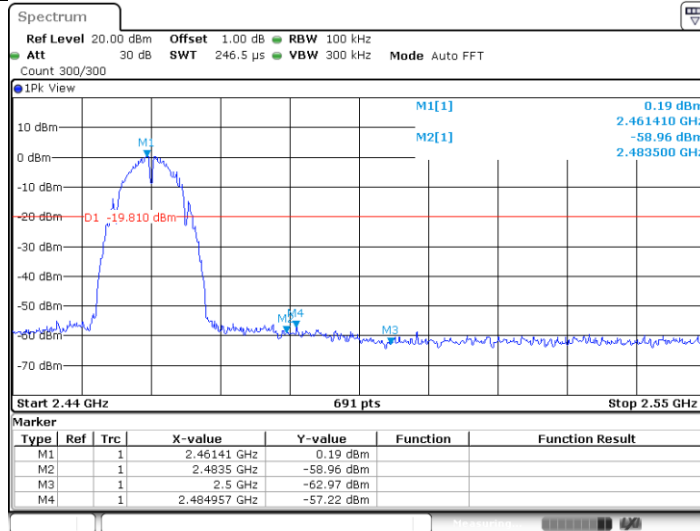
Date: 29 SEP 2021 16:22:16

11B\_Ant0\_High\_2462



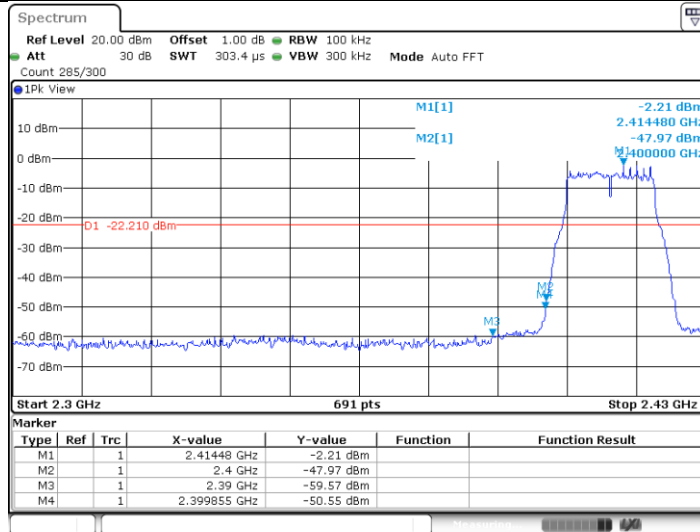
Date: 29 SEP.2021 16:14:02

11B\_Ant1\_High\_2462



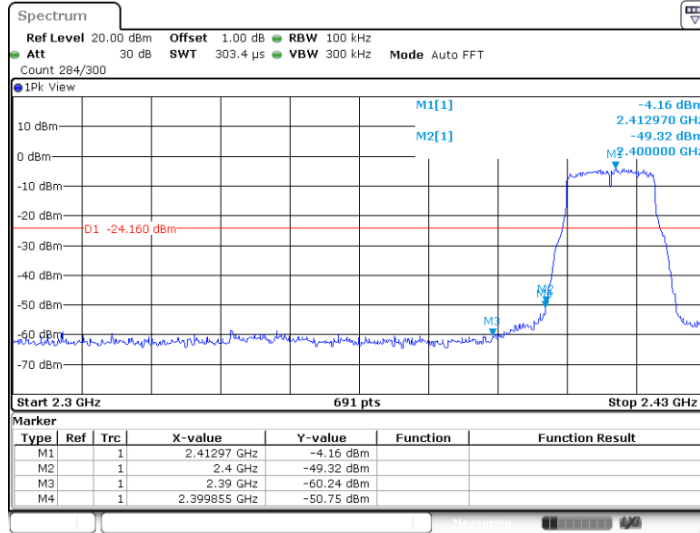
Date: 29 SEP.2021 16:25:58

11G\_Ant0\_Low\_2412



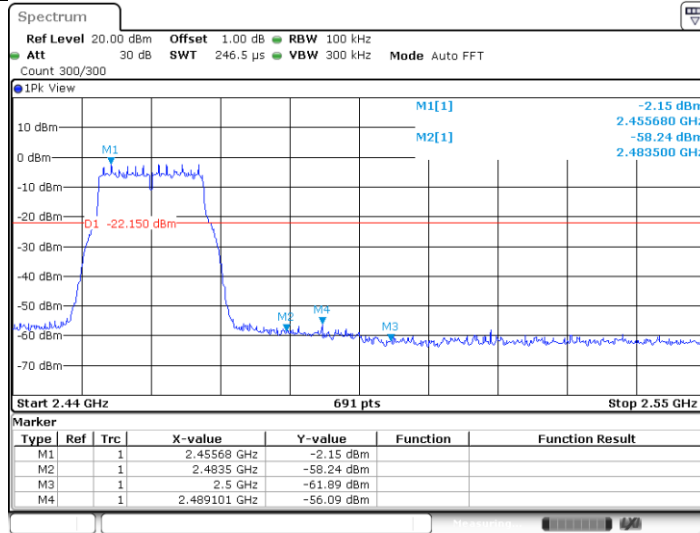
Date: 29 SEP.2021 16:15:50

11G\_Ant1\_Low\_2412



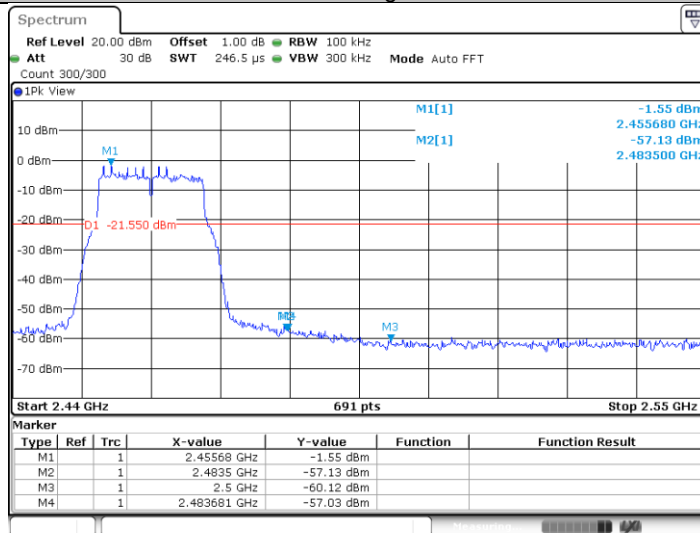
Date: 29 SEP 2021 16:28:04

11G\_Ant0\_High\_2462



Date: 29 SEP 2021 16:19:10

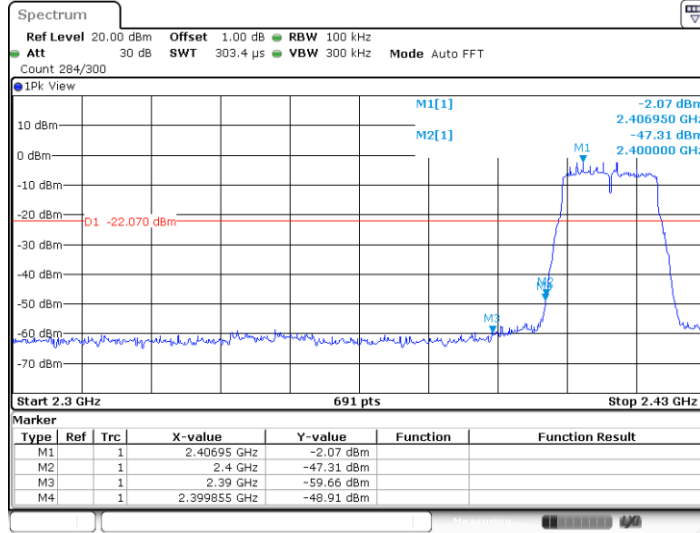
11G\_Ant1\_High\_2462



Date: 29 SEP 2021 16:32:55

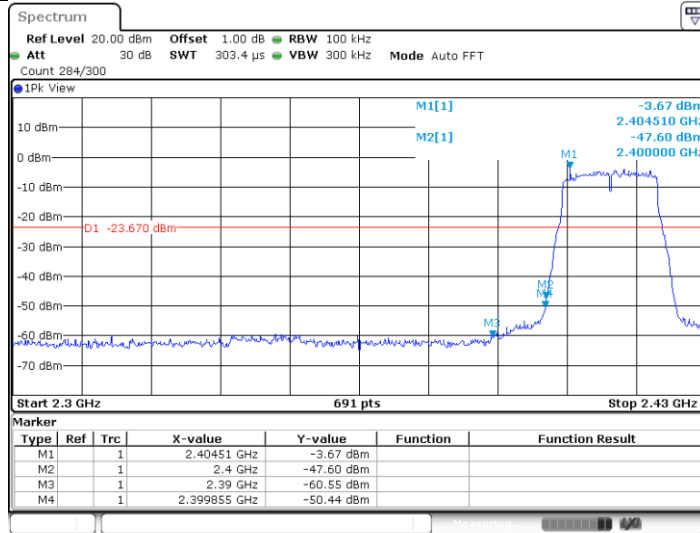


11N20MIMO\_Ant0\_Low\_2412



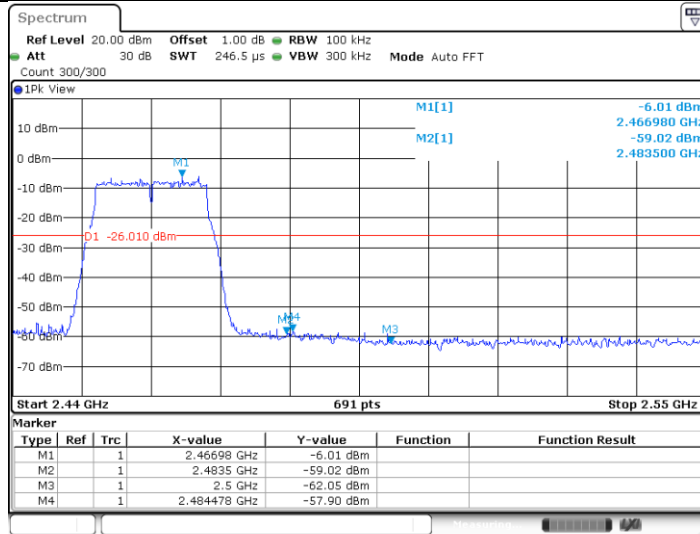
Date: 29 SEP.2021 16:36:16

11N20MIMO\_Ant1\_Low\_2412



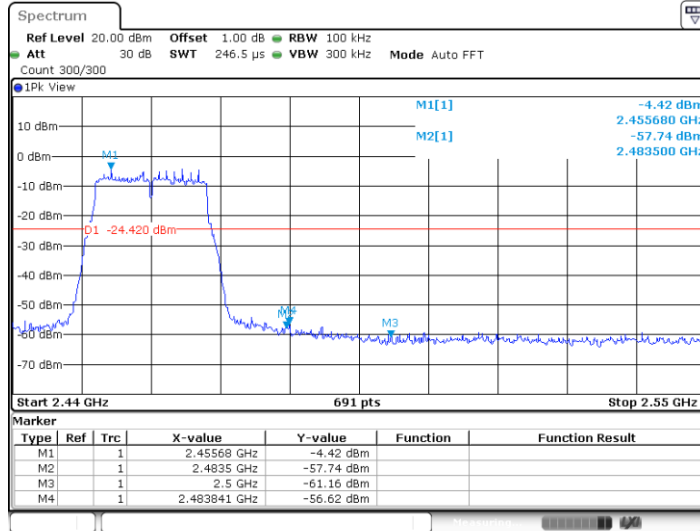
Date: 29 SEP.2021 16:46:18

11N20MIMO\_Ant0\_High\_2462



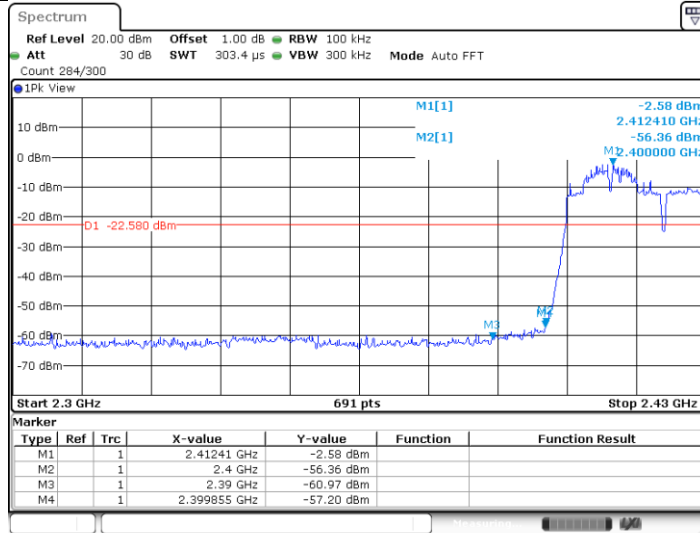
Date: 29 SEP.2021 17:00:03

11N20MIMO\_Ant1\_High\_2462



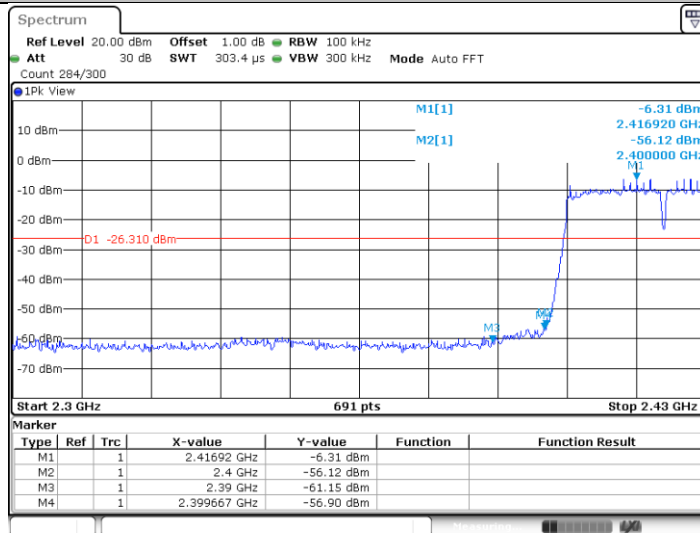
Date: 29 SEP 2021 17:02:02

11N40MIMO\_Ant0\_Low\_2422



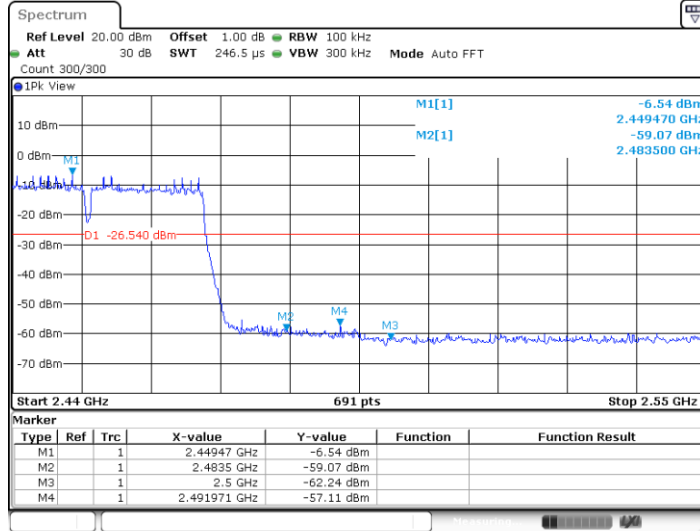
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11N40MIMO\_Ant1\_Low\_2422



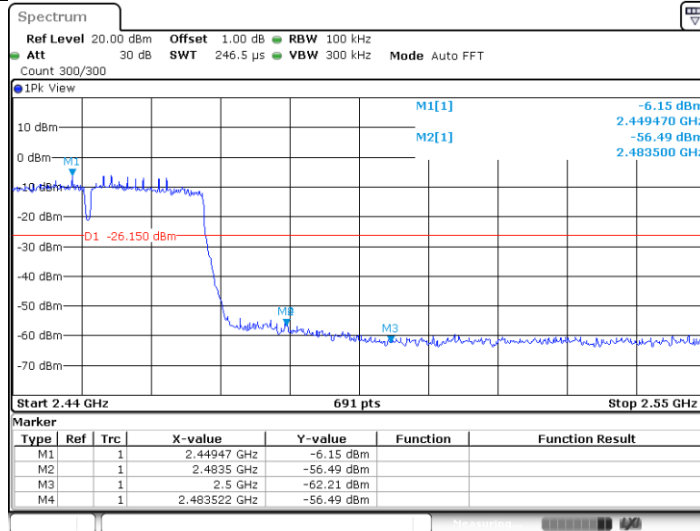
Date: 29 SEP 2021 17:21:10

11N40MIMO\_Ant0\_High\_2452



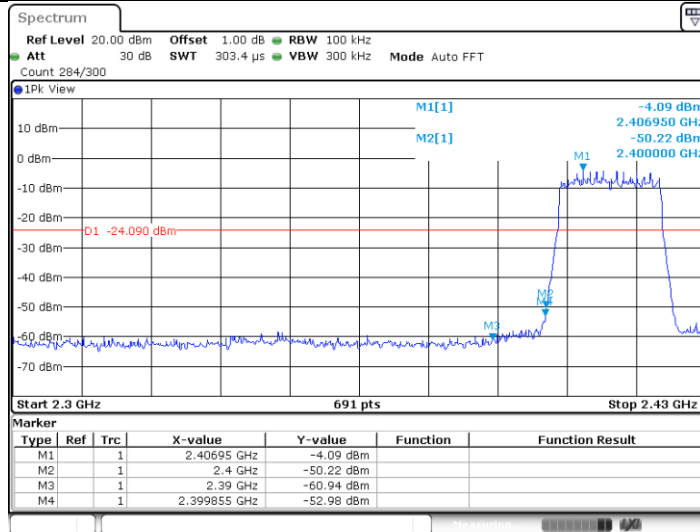
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11N40MIMO\_Ant1\_High\_2452



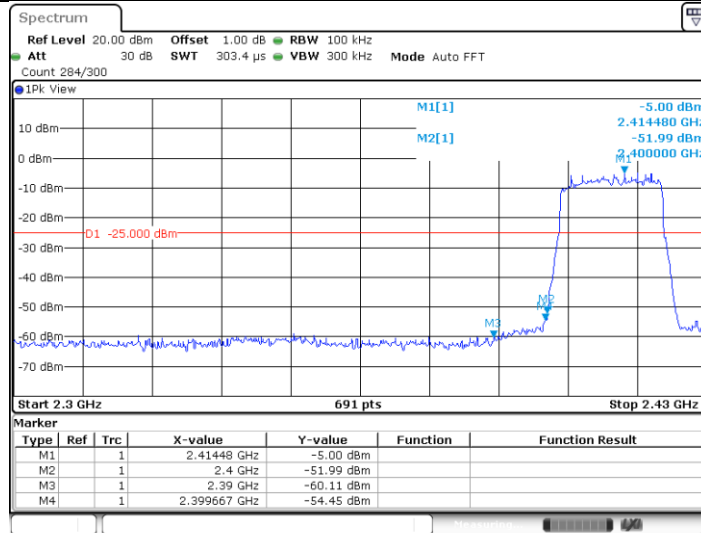
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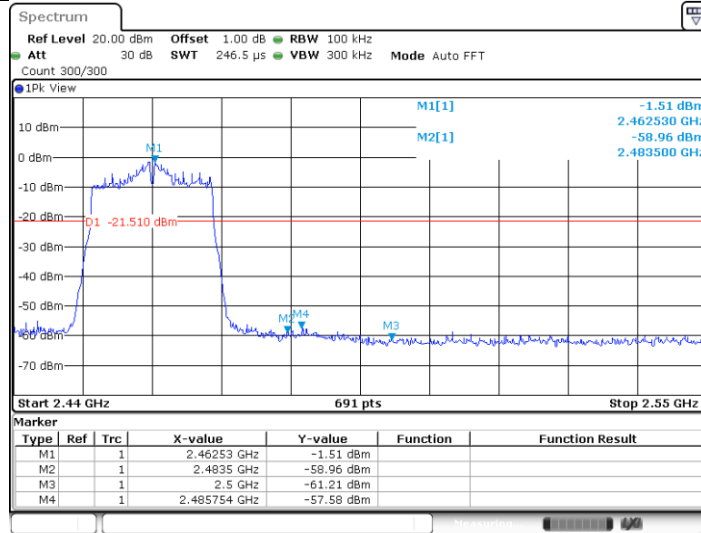
Date: 29 SEP 2021 17:34:57

11AX20MIMO\_Ant1\_Low\_2412



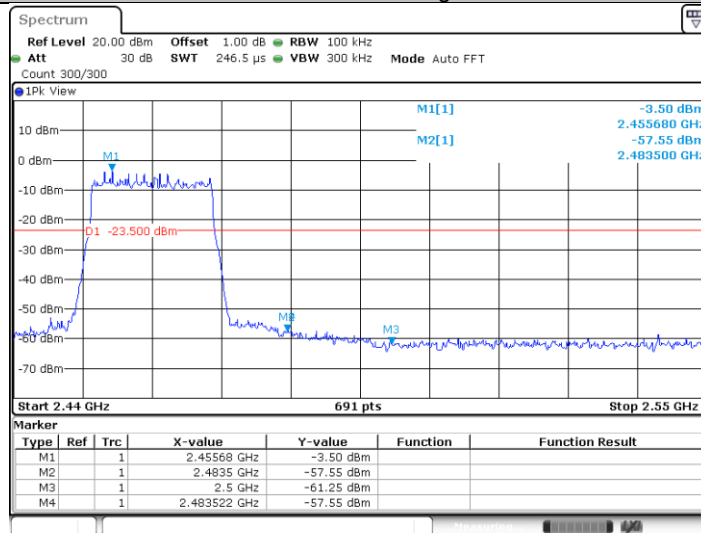
Date: 29 SEP 2021 17:36:50

11AX20MIMO\_Ant0\_High\_2462



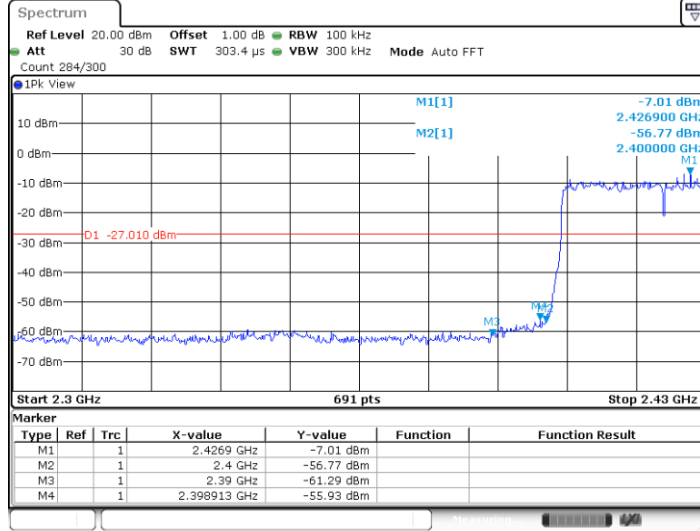
Date: 29 SEP 2021 17:45:47

11AX20MIMO\_Ant1\_High\_2462



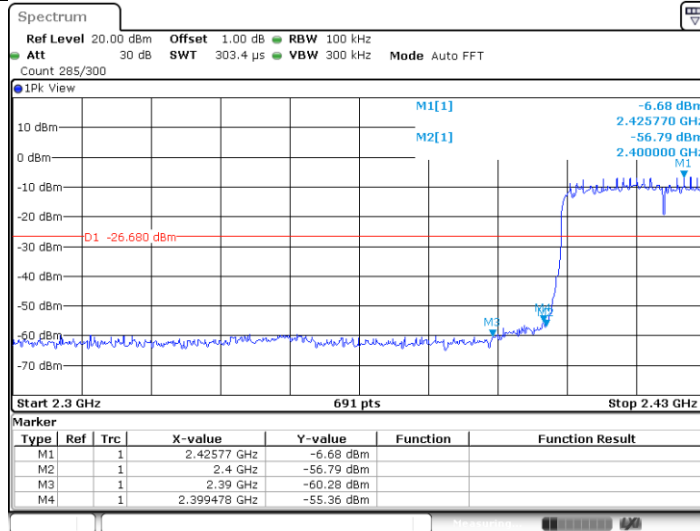
Date: 29 SEP 2021 17:56:56

11AX40MIMO\_Ant0\_Low\_2422



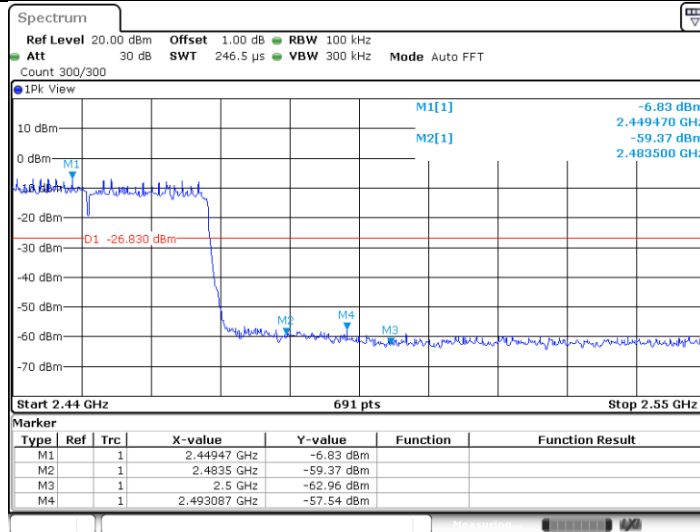
Date: 29 SEP. 2021 17:59:30

11AX40MIMO\_Ant1\_Low\_2422



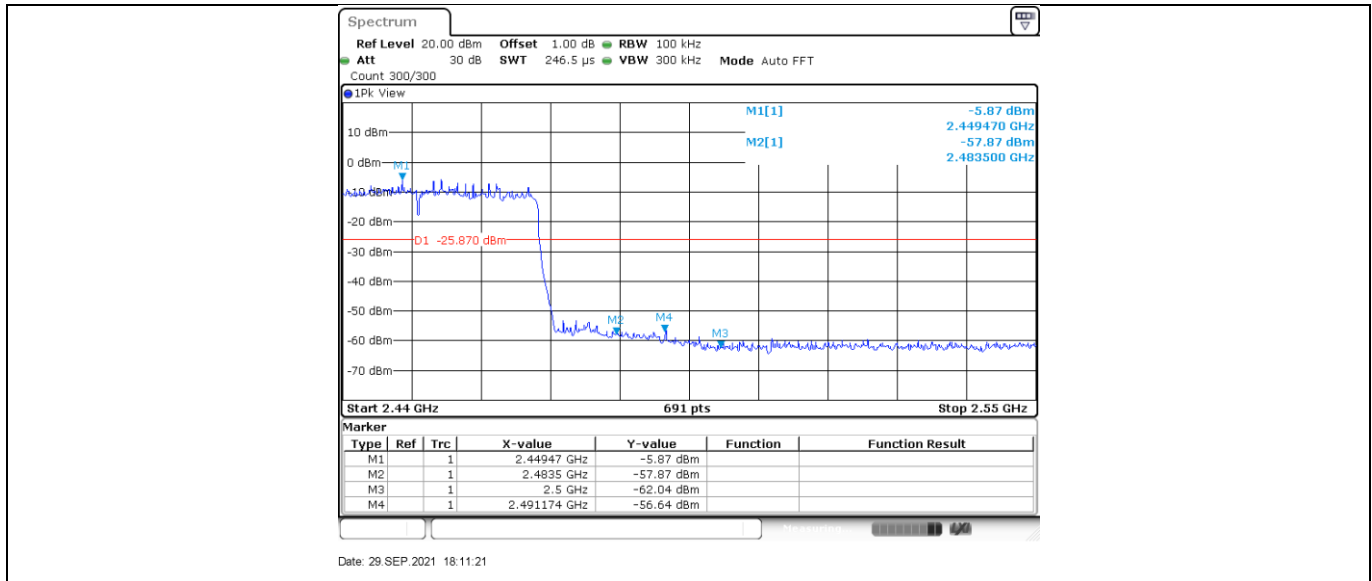
Date: 29 SEP. 2021 18:03:40

11AX40MIMO\_Ant0\_High\_2452



Date: 29 SEP. 2021 18:09:02

11AX40MIMO\_Ant1\_High\_2452



## 9.8 Spurious radiated emissions for transmitter

### Test Method

- 1: The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious  
 RBW = 100 KHz to 120KHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious  
 RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1MHz.

b) VBW \ [3 × RBW].

c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2.

Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is  $[10 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty

cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is  $[20 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

## Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB $\mu$ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



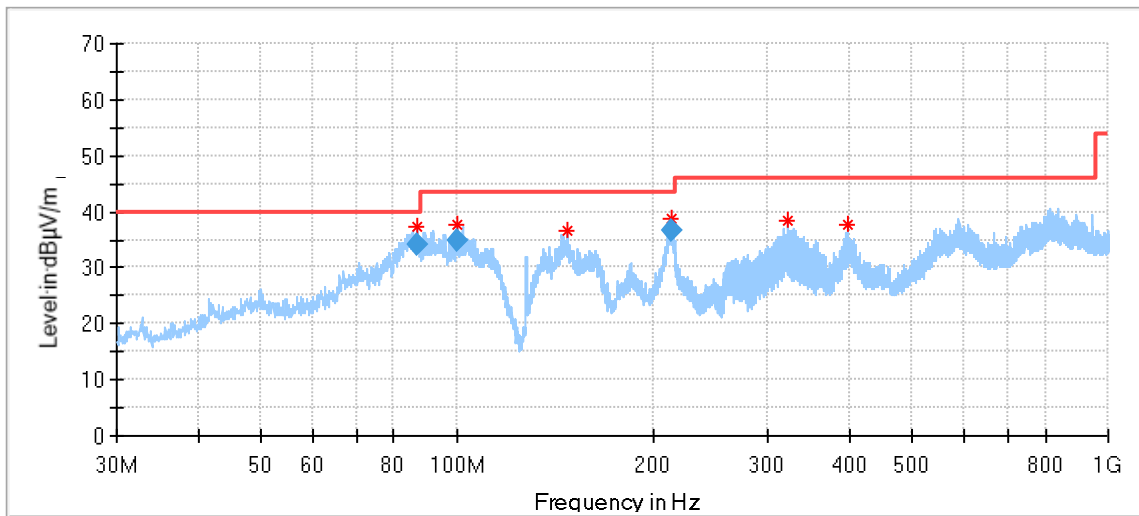
### Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (802.11n40 MIMO) test result is listed in the report.

### Transmitting spurious emission test result as below:

Below 1G:

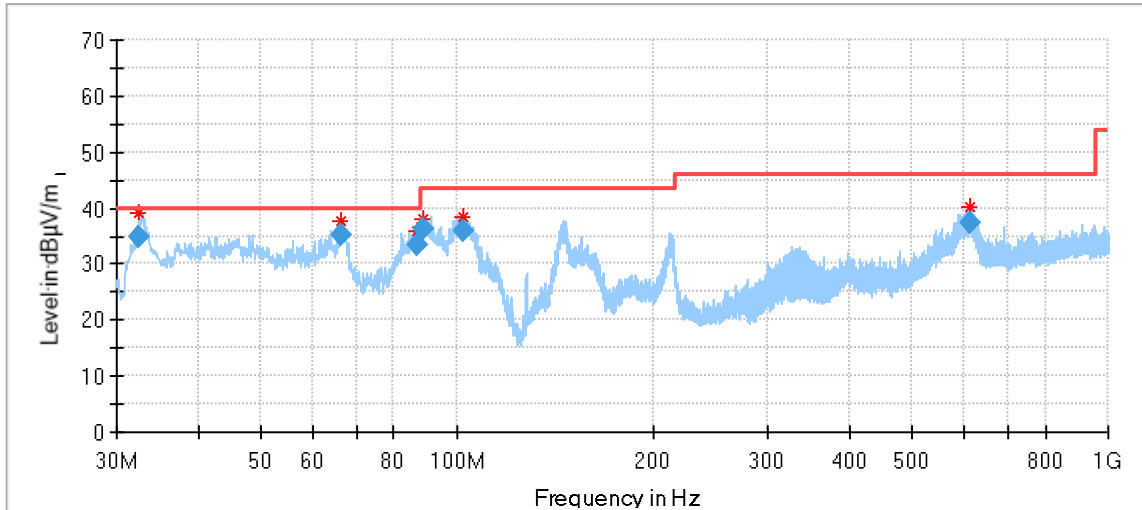


### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
86.960556	37.35	40.00	2.65	200.0	H	25.0	15.54
100.109444	37.76	43.50	5.74	200.0	H	233.0	18.53
147.908889	36.67	43.50	6.83	200.0	H	212.0	15.07
213.276111	38.65	43.50	4.85	100.0	H	40.0	18.23
322.023889	38.31	46.00	7.69	100.0	H	137.0	21.51
398.600000	37.63	46.00	8.37	100.0	H	336.0	23.55

### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
86.960556	34.22	40.00	5.78	200.0	H	25.0	15.54
100.109444	34.97	43.50	8.53	200.0	H	233.0	18.53
213.276111	36.78	43.50	6.72	100.0	H	40.0	18.23



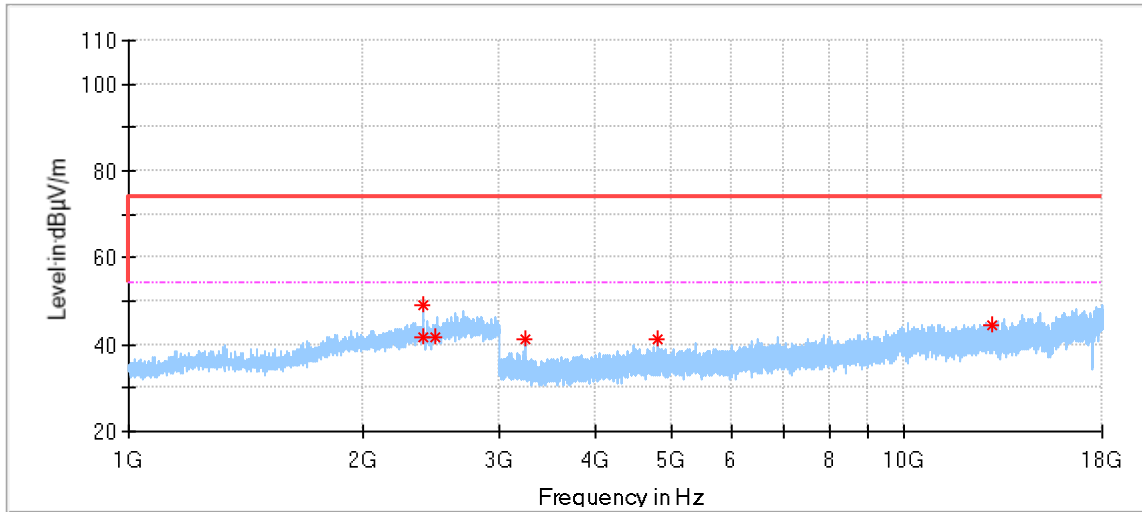
**Critical\_Freqs**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.478889	39.14	40.00	0.86	100.0	V	89.0	16.72
66.536667	37.85	40.00	2.15	100.0	V	226.0	17.67
86.691111	35.85	40.00	4.15	100.0	V	100.0	15.43
88.846667	38.16	43.50	5.34	100.0	V	22.0	16.21
101.941667	38.31	43.50	5.19	100.0	V	310.0	18.63
612.323333	40.31	46.00	5.69	100.0	V	0.0	27.69

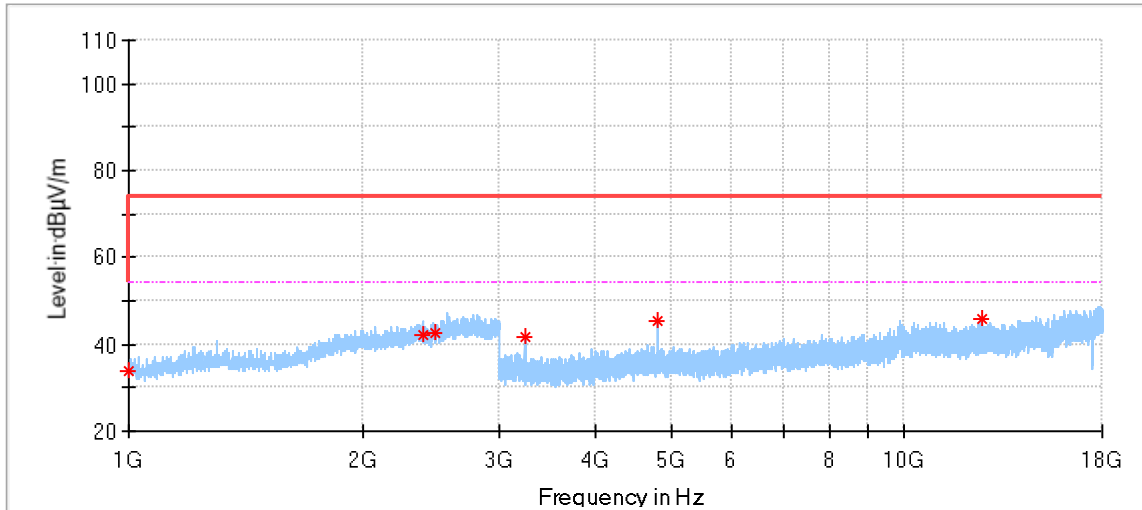
**Final\_Result**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.478889	34.90	40.00	5.10	100.0	V	89.0	16.72
66.536667	35.10	40.00	4.90	100.0	V	226.0	17.67
86.691111	33.22	40.00	6.78	100.0	V	100.0	15.43
88.846667	36.19	43.50	7.31	100.0	V	22.0	16.21
101.941667	35.88	43.50	7.62	100.0	V	310.0	18.63
612.323333	37.44	46.00	8.56	100.0	V	0.0	27.69

802.11n40 MIMO Modulation  
Low channel 2422MHz

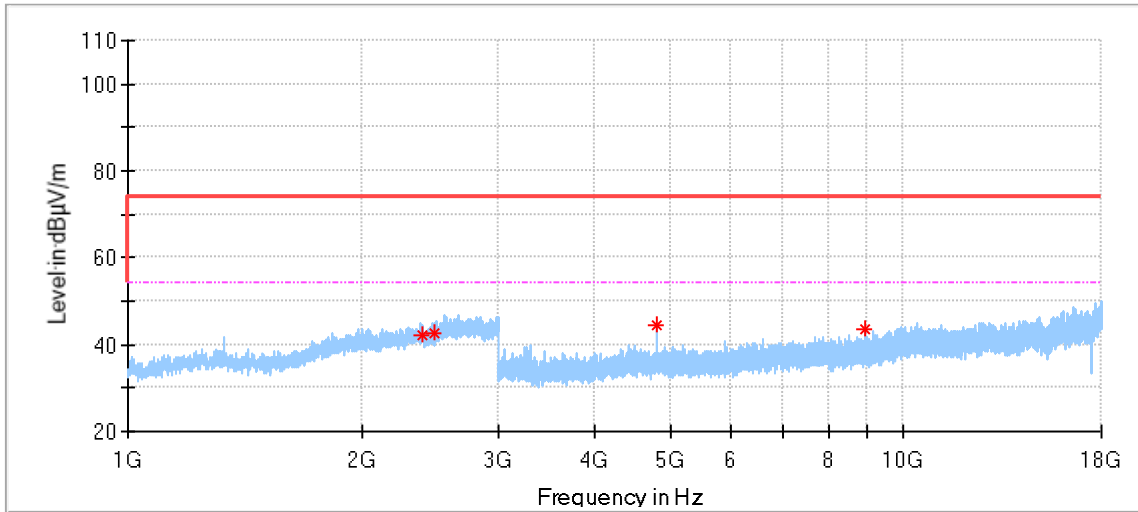


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	41.77	74.00	32.23	150.0	H	177.0	-2.23
2391.904762	48.96	74.00	25.04	150.0	H	232.0	-2.22
2483.809524	41.78	74.00	32.22	150.0	H	226.0	-1.83
3242.500000	41.18	74.00	32.82	150.0	H	311.0	-0.42
4804.000000	41.31	74.00	32.69	150.0	H	4.0	3.52
12950.500000	44.50	74.00	29.50	150.0	H	52.0	12.83

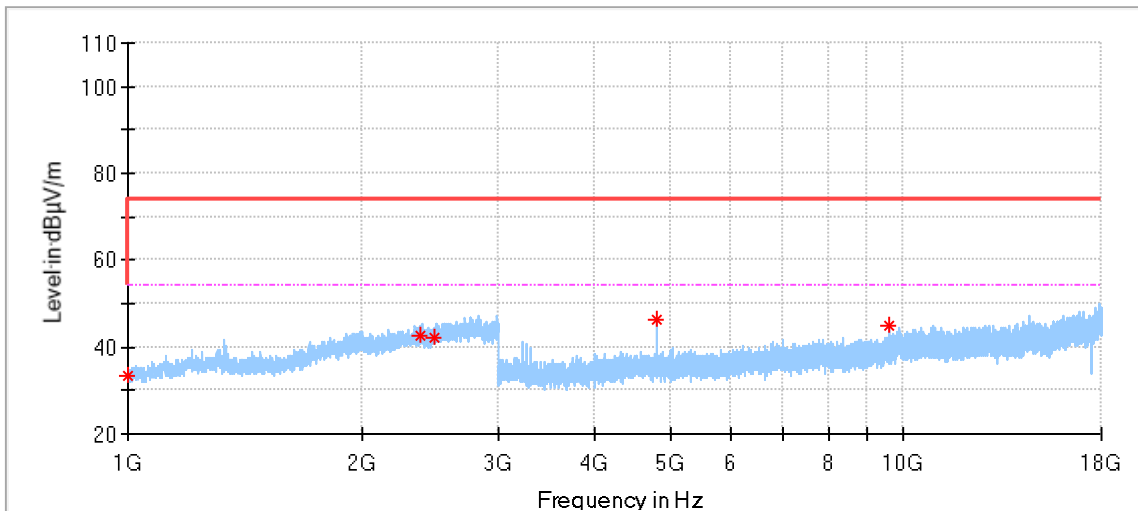


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000000	33.84	54.00	40.16	150.0	V	312.0	-11.04
2391.428571	42.35	74.00	31.65	150.0	V	279.0	-2.22
2484.285714	42.81	74.00	31.19	150.0	V	108.0	-1.83
3242.500000	41.79	74.00	32.21	150.0	V	4.0	-0.42
4804.000000	45.47	74.00	28.53	150.0	V	251.0	3.52
12573.000000	45.66	74.00	28.34	150.0	V	251.0	12.36

802.11n40 MIMO Modulation  
Middle channel 2437MHz

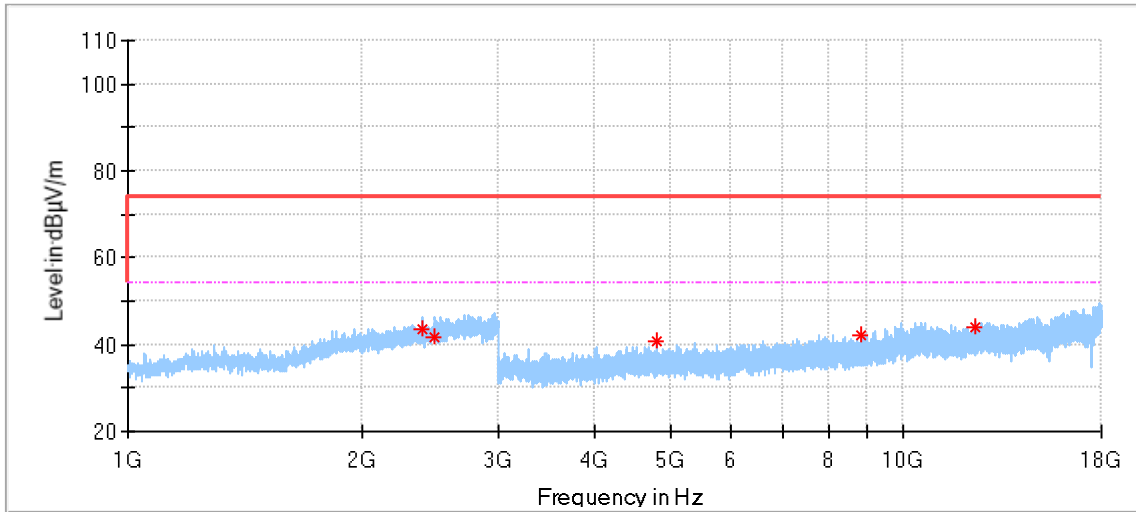


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	42.09	74.00	31.91	150.0	H	226.0	-2.23
2484.285714	42.71	74.00	31.29	150.0	H	265.0	-1.83
4804.000000	44.36	74.00	29.64	150.0	H	333.0	3.52
8926.500000	43.41	74.00	30.59	150.0	H	353.0	8.87

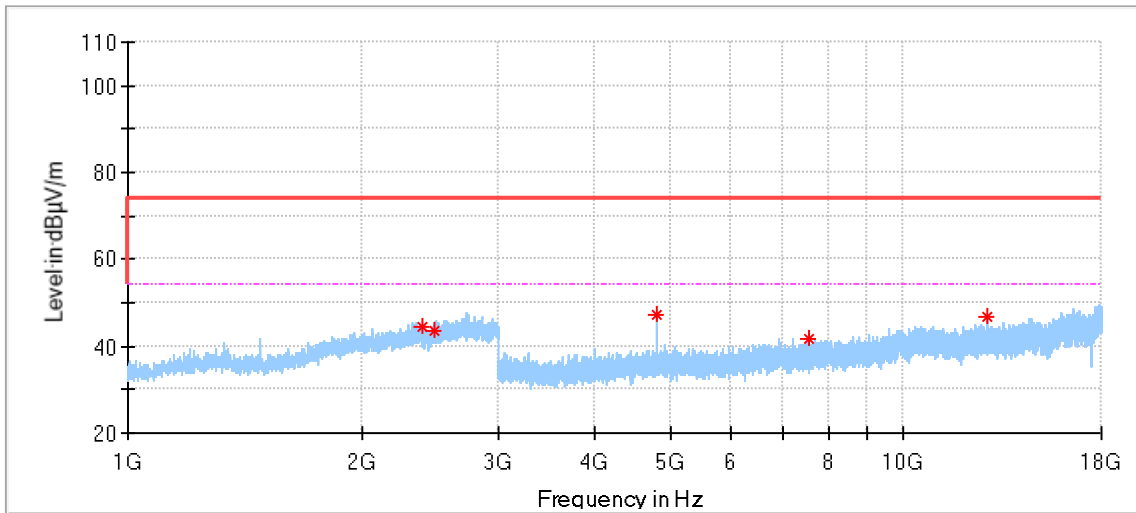


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.000000	33.61	54.00	40.39	150.0	V	290.0	-11.04
2389.047619	42.42	74.00	31.58	150.0	V	340.0	-2.23
2484.285714	42.06	74.00	31.94	150.0	V	92.0	-1.83
4804.000000	46.41	74.00	27.59	150.0	V	228.0	3.52
9608.500000	44.73	74.00	29.27	150.0	V	228.0	9.75

802.11n40 MIMO Modulation  
High channel 2462MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	43.31	74.00	30.69	150.0	H	29.0	-2.23
2484.761905	41.65	74.00	32.35	150.0	H	279.0	-1.83
4804.000000	40.64	74.00	33.36	150.0	H	174.0	3.52
8811.000000	42.24	74.00	31.76	150.0	H	108.0	9.01
12386.500000	44.13	74.00	29.87	150.0	H	66.0	11.94



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	44.60	74.00	29.40	150.0	V	145.0	-2.23
2484.761905	43.43	74.00	30.57	150.0	V	337.0	-1.83
4804.000000	47.38	74.00	26.62	150.0	V	264.0	3.52
7540.500000	41.91	74.00	32.09	150.0	V	71.0	8.06
12801.000000	46.57	74.00	27.43	150.0	V	50.0	12.90

Remark:

- (1) Data of measurement within frequency range 9kHz-30MHz, 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report,

- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.
- (3) Level= Reading Level + Correction Factor
- (4) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain  
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss  
(The Reading Level is recorded by software which is not shown in the sheet)

## 10 Test Equipment List

### Conducted Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2022-6-4
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2022-6-5
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2022-6-3
Test software	Rohde & Schwarz	EMC32	68-4-90-19-005-A01	Version10.35 .02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005	----	1	2022-11-07

### Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-003	101031	1	2022-6-3
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-003	708	1	2022-6-27
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-004	102295	1	2022-7-21
Wideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2022-7-21
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2022-8-25
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2022-6-6
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2022-7-27
Fully Anechoic Chamber	TDK	8X4X4	68-4-90-14-002	--	2	2023-9-2
Test software	Rohde & Schwarz	EMC32	68-4-90-14-002-A10	Version 9.15.00	N/A	N/A

### RF Conducted Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14-001	108272	1	2022-6-3
Vector Signal Generator	Rohde & Schwarz	SMBV100A	68-4-48-18-001	262825	1	2022-6-3
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	68-4-48-18-003	101251	1	2022-6-3
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2022-6-3
Vector Signal Generator	Rohde & Schwarz	SMU 200A	68-4-48-14-003	105324	1	2022-6-3
RF Switch Module	Rohde & Schwarz	OSP120/OS P-B157	68-4-93-14-003	101226/10085 1	1	2022-6-3
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	1	2022-6-3
10dB Attenuator	Weinschel	4M-10	68-4-81-14-003	43152	1	2022-6-3
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	1	2022-6-3
10dB Attenuator	R&S	DNF	68-4-81-14-005	DNF-002	1	2022-6-3
10dB Attenuator	R&S	DNF	68-4-81-14-006	DNF-003	1	2022-6-3
10dB Attenuator	R&S	DNF	68-4-81-14-007	DNF-004	1	2022-6-3
Test software	Rohde & Schwarz	EMC32	68-4-48-14-003-A10	Version 10.60.10	N/A	N/A
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2022-11-07

## 11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432 or ENV4200)	3.62dB
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.81dB; Vertical: 4.89dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.69dB; Vertical: 4.68dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.89dB; Vertical: 4.87dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: $0.6 \times 10^{-7}$ or 1%

---THE END OF REPORT---