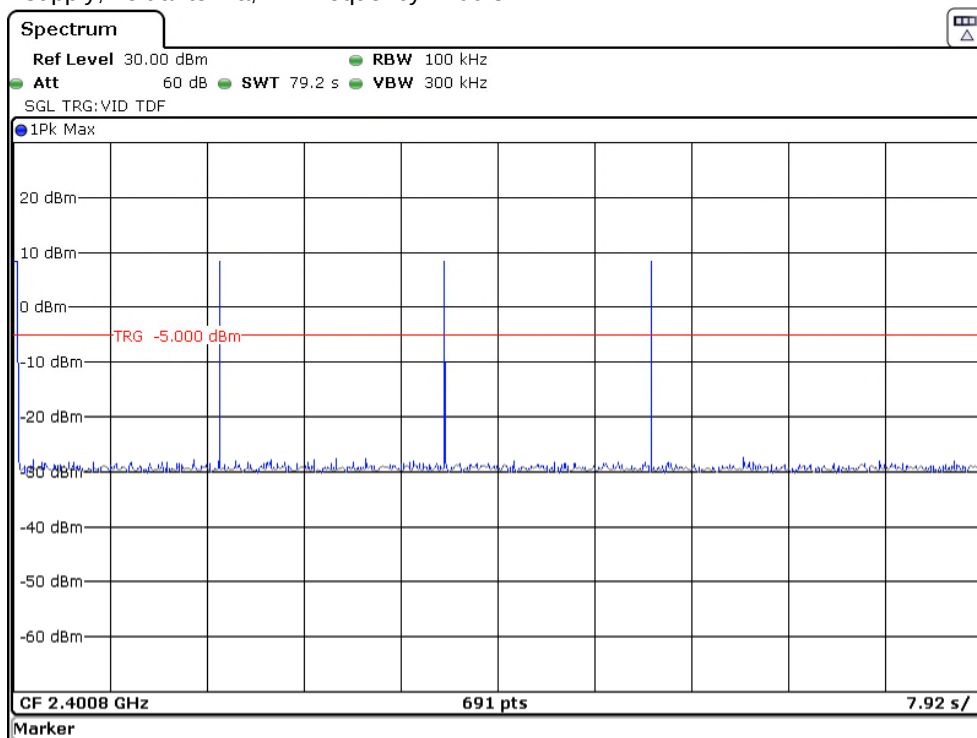
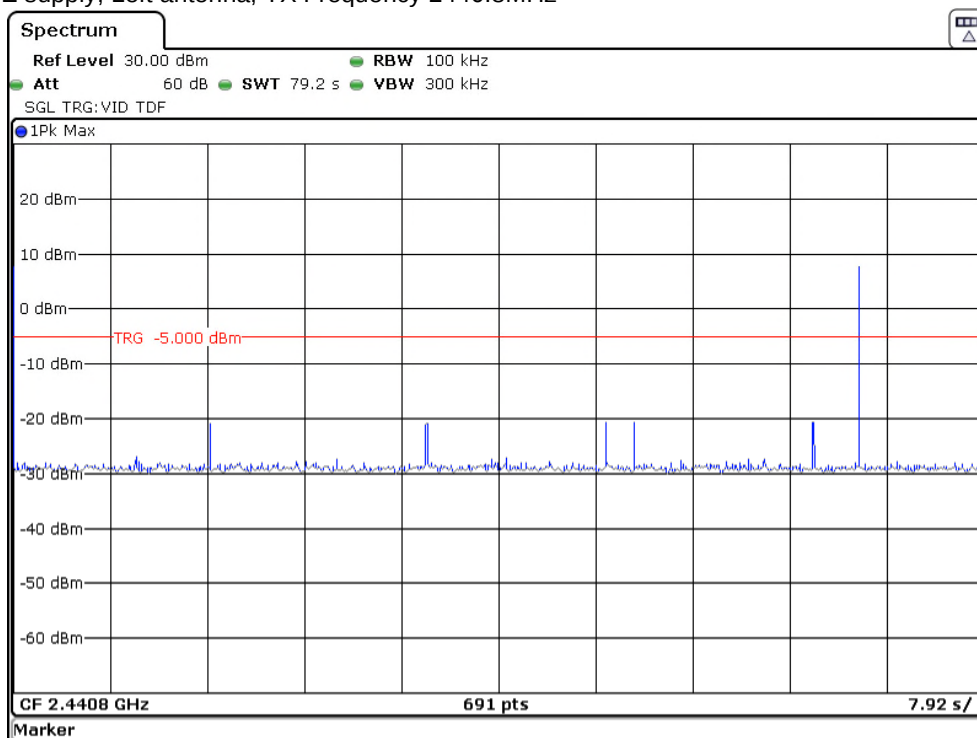


PoE supply, Left antenna, TX Frequency 2400.8MHz



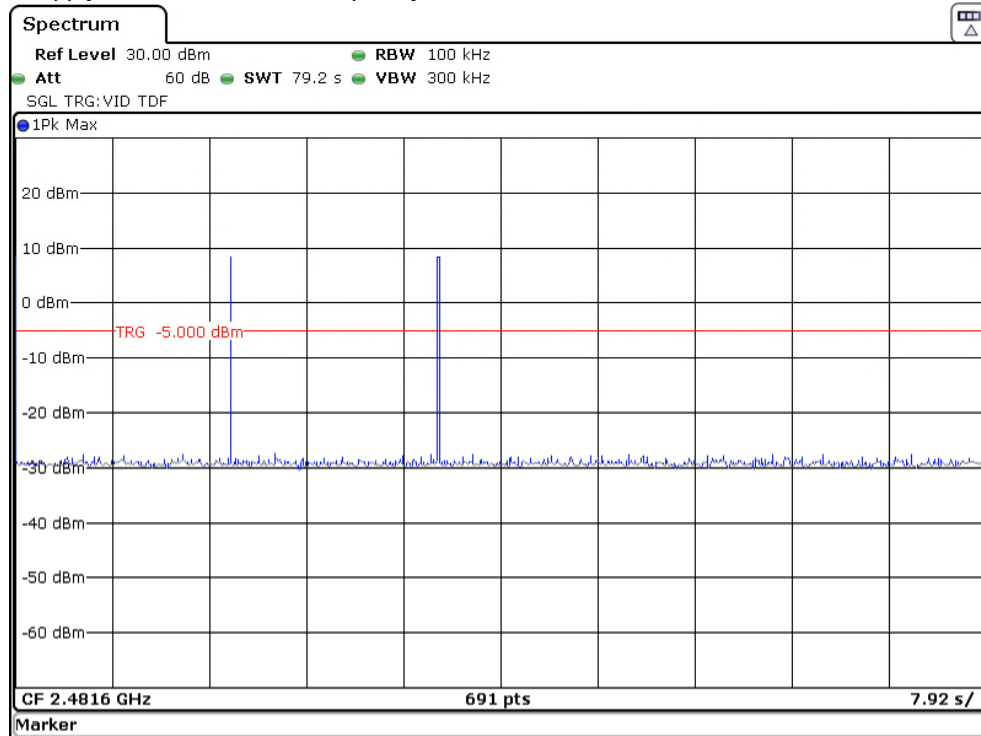
Date: 14.AUG.2024 15:29:29

PoE supply, Left antenna, TX Frequency 2440.8MHz



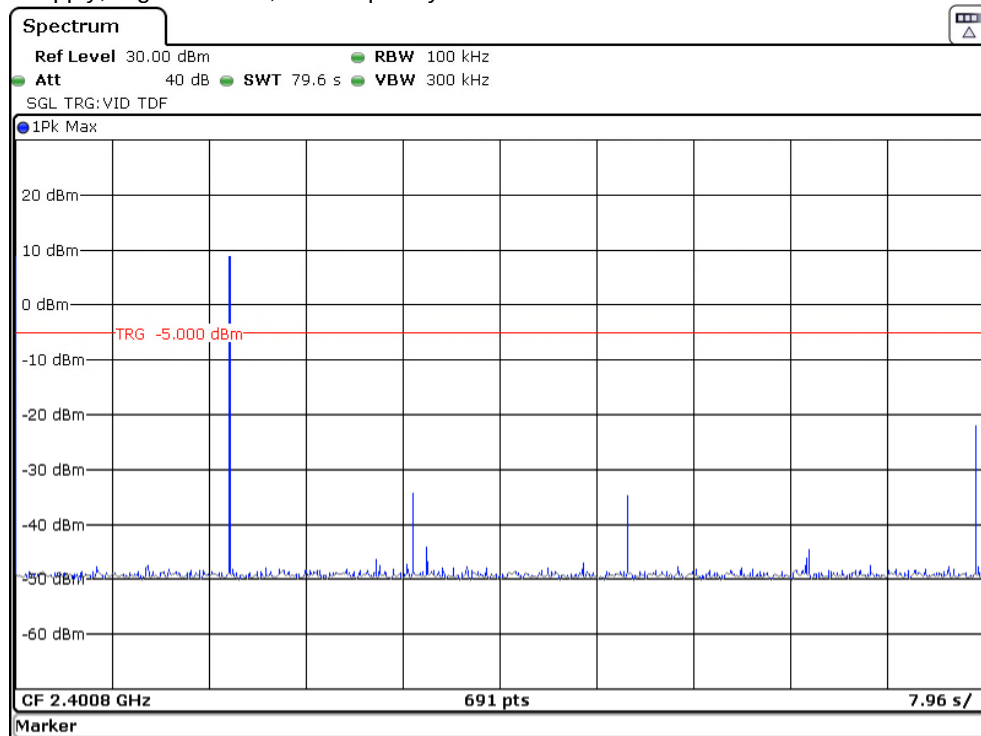
Date: 14.AUG.2024 15:38:42

PoE supply, Left antenna, TX Frequency 2481.6MHz



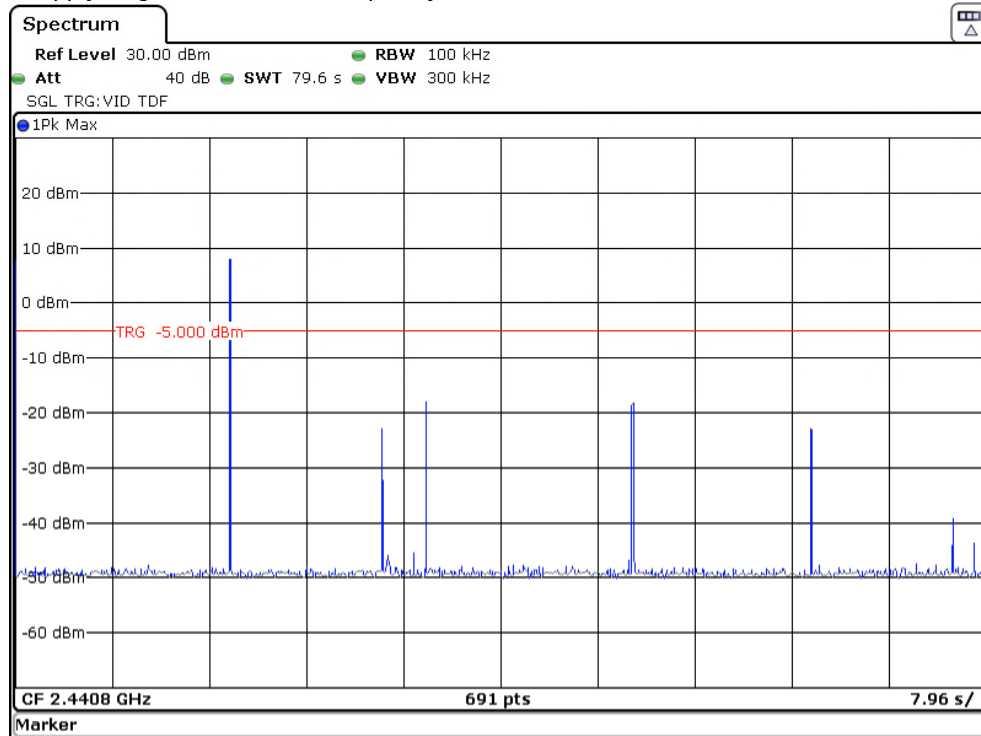
Date: 14.AUG.2024 15:45:01

PoE supply, Right antenna, TX Frequency 2400.8MHz



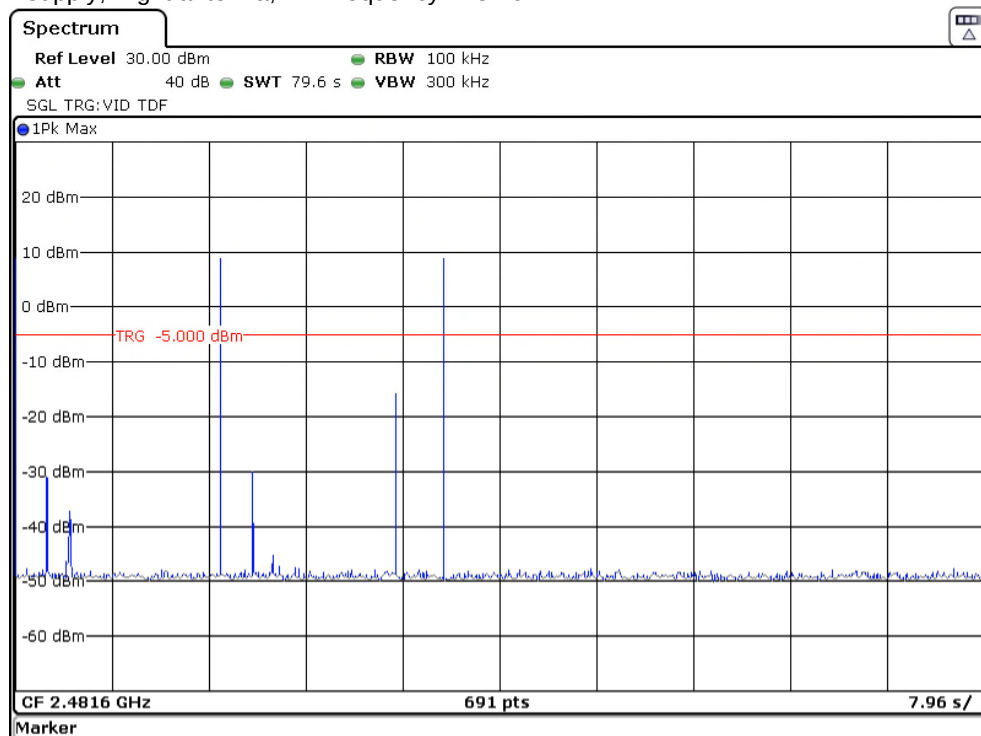
Date: 13.AUG.2024 18:12:50

PoE supply, Right antenna, TX Frequency 2440.8MHz



Date: 13.AUG.2024 18:09:38

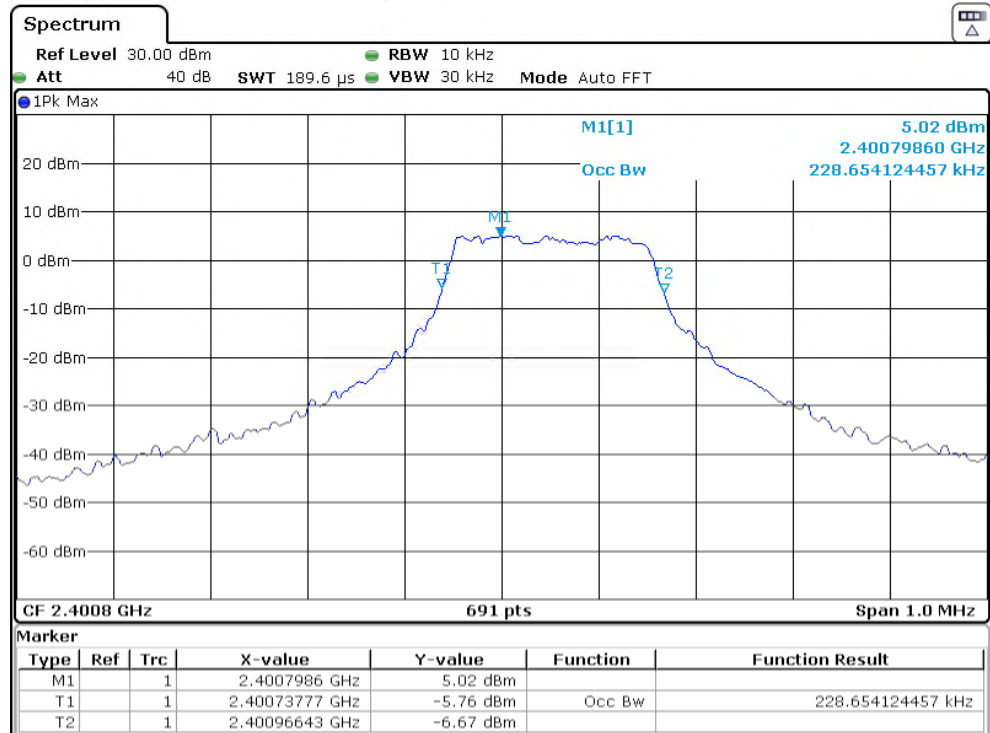
PoE supply, Right antenna, TX Frequency 2481.6MHz



Date: 13.AUG.2024 18:04:22

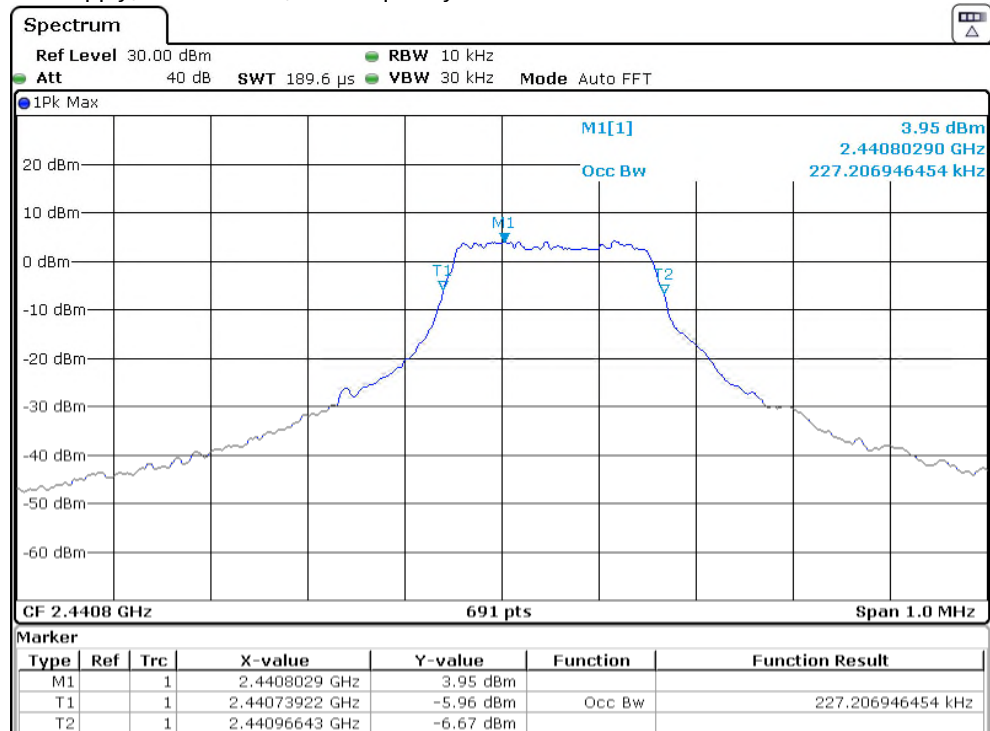
Occupied Bandwidth Measurement

USB-C supply, Left antenna, TX Frequency 2400.8MHz



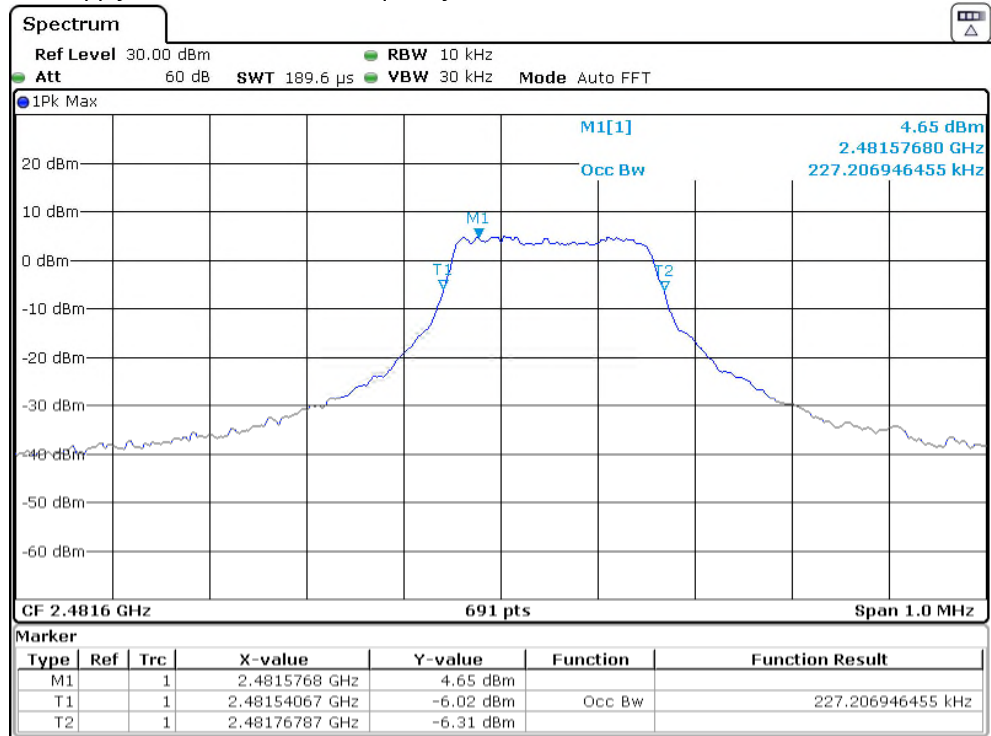
Date: 13.AUG.2024 11:00:21

USB-C supply, Left antenna, TX Frequency 2440.8MHz



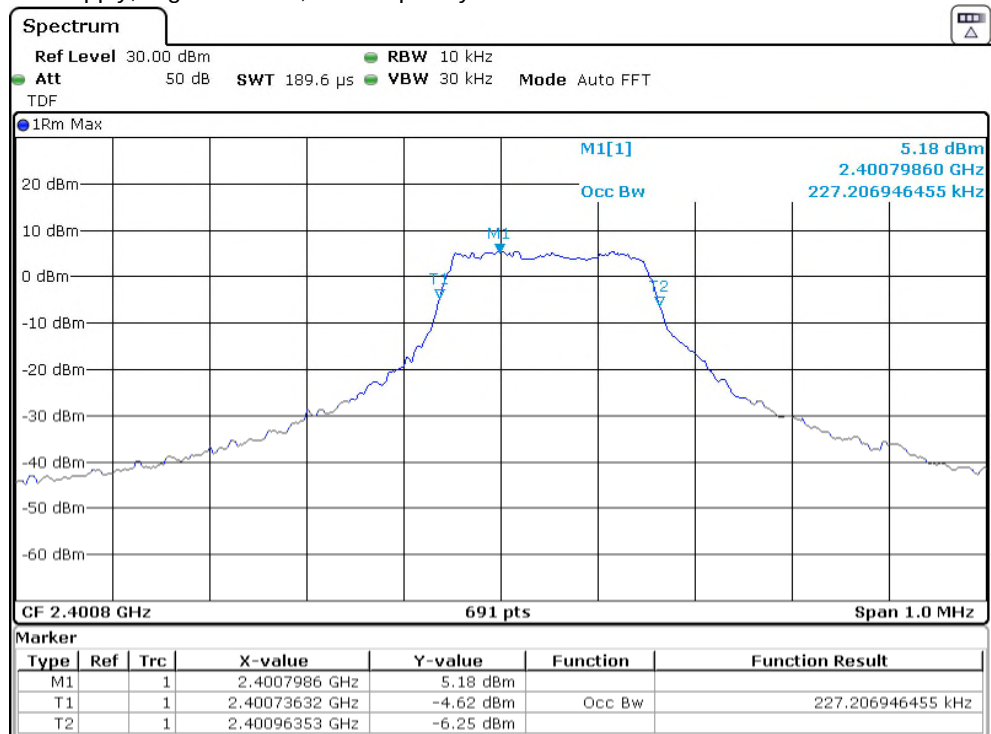
Date: 13.AUG.2024 10:58:37

USB-C supply, Left antenna, TX Frequency 2481.6MHz



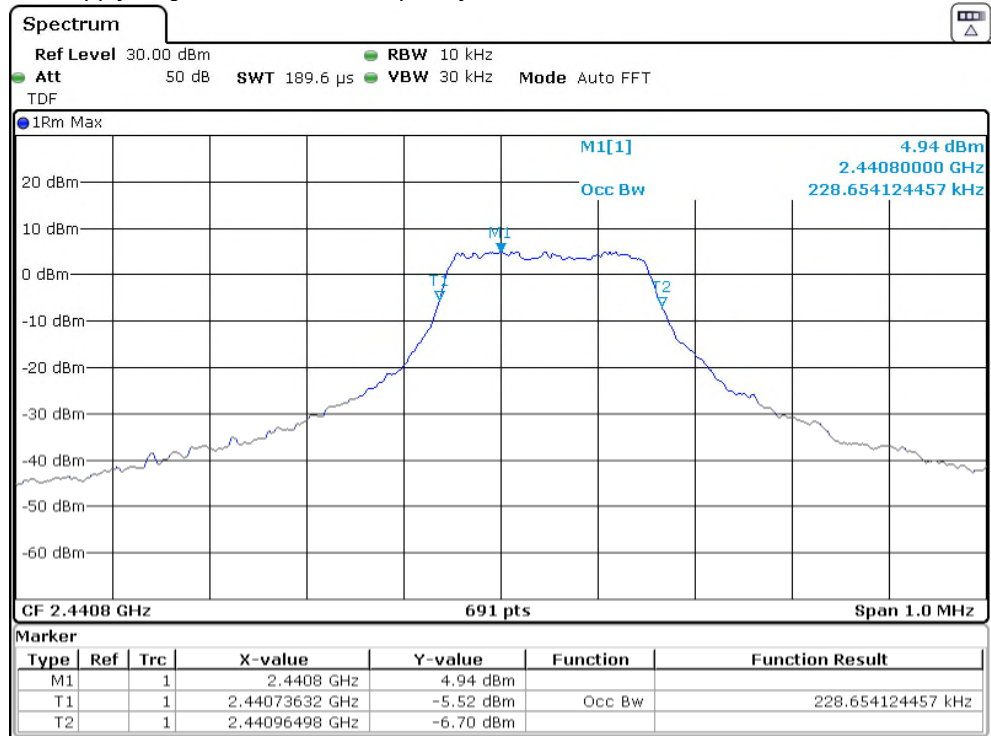
Date: 13.AUG.2024 11:02:14

USB-C supply, Right antenna, TX Frequency 2400.8MHz



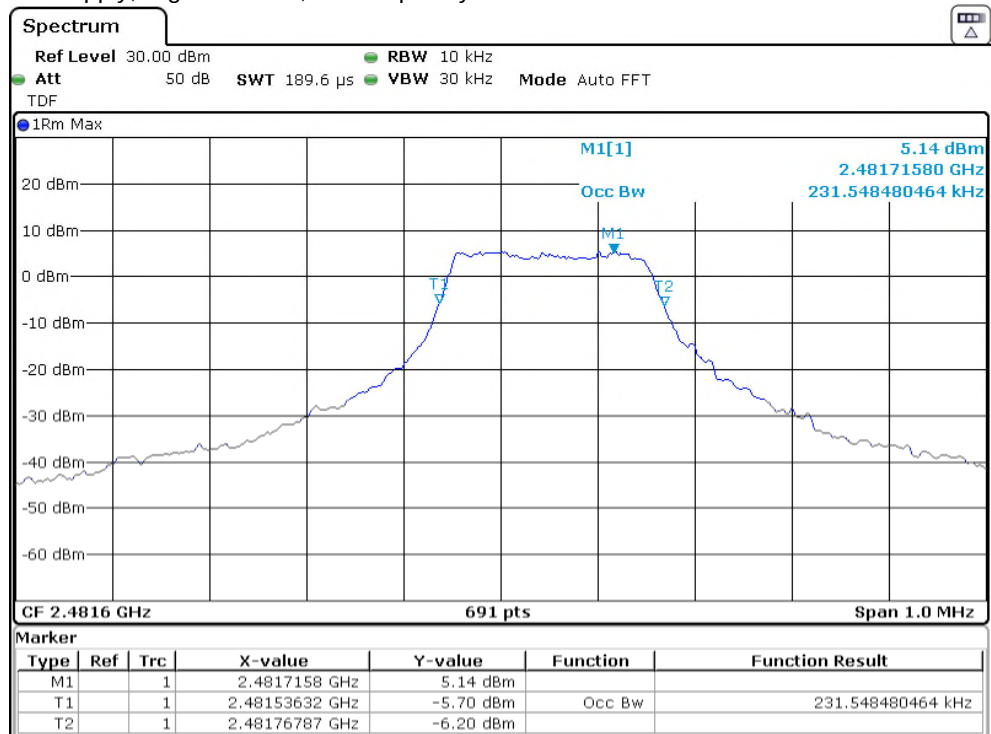
Date: 8.AUG.2024 11:24:45

USB-C supply, Right antenna, TX Frequency 2440.8MHz



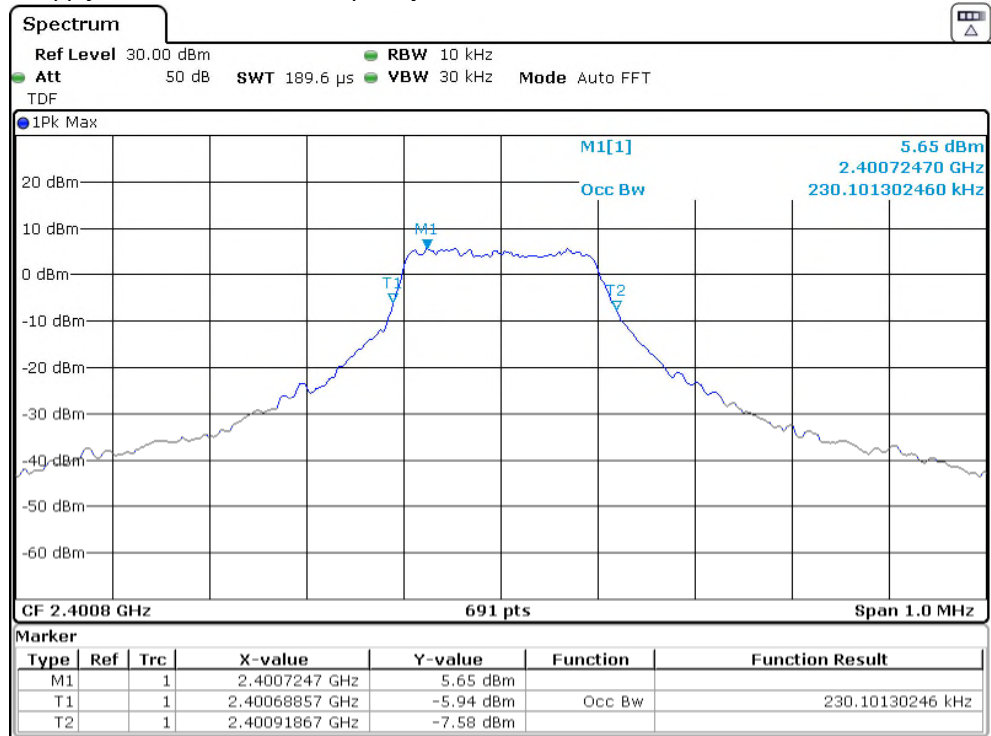
Date: 8.AUG.2024 11:22:40

USB-C supply, Right antenna, TX Frequency 2481.6MHz



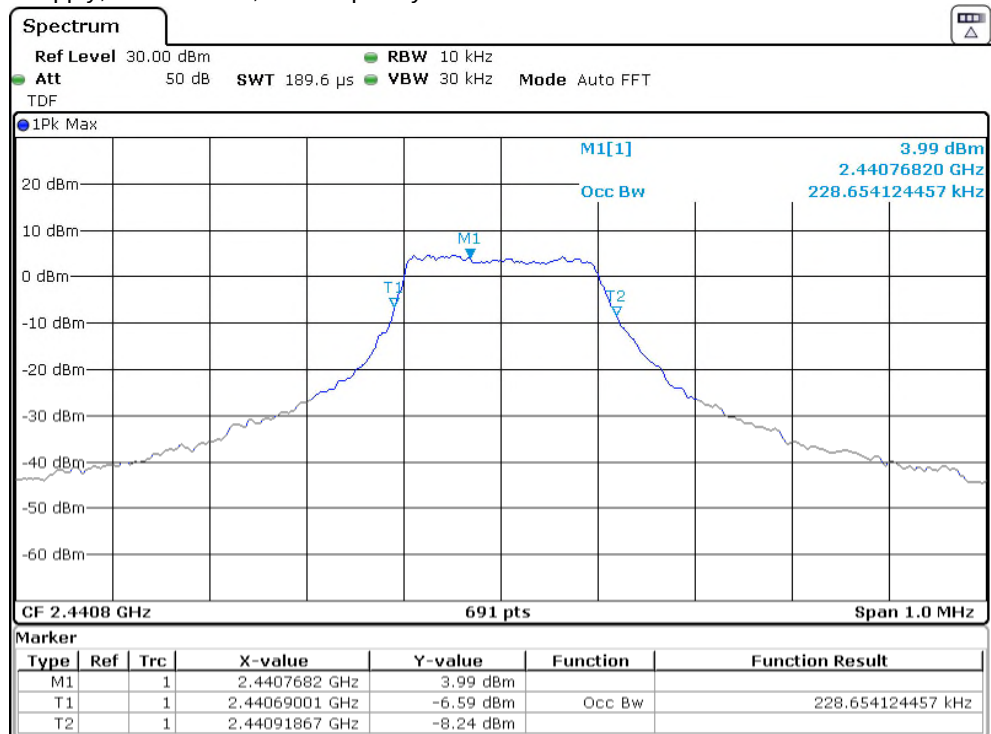
Date: 8.AUG.2024 11:23:45

PoE supply, Left antenna, TX Frequency 2400.8MHz



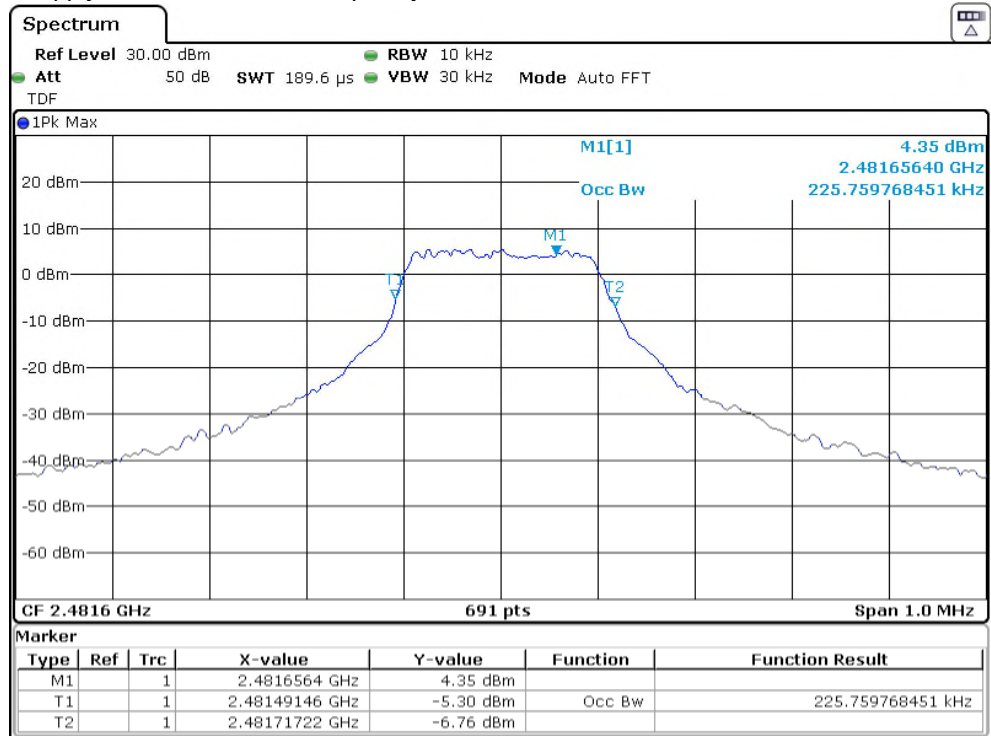
Date: 14.AUG.2024 13:11:24

PoE supply, Left antenna, TX Frequency 2440.8MHz



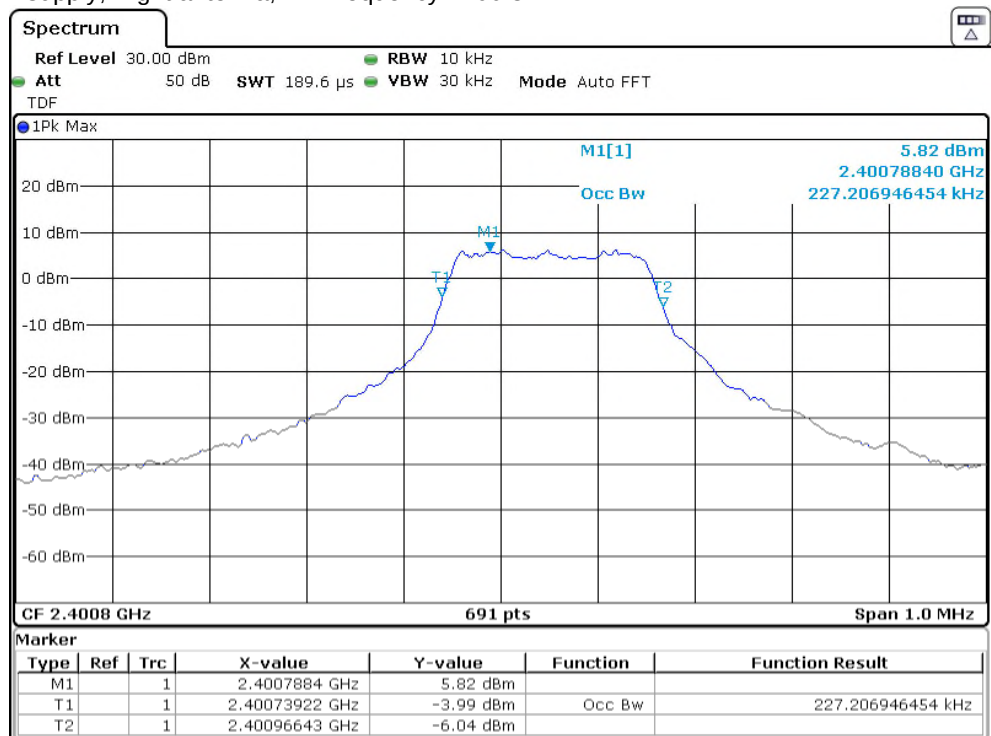
Date: 14.AUG.2024 13:13:03

PoE supply, Left antenna, TX Frequency 2481.6MHz



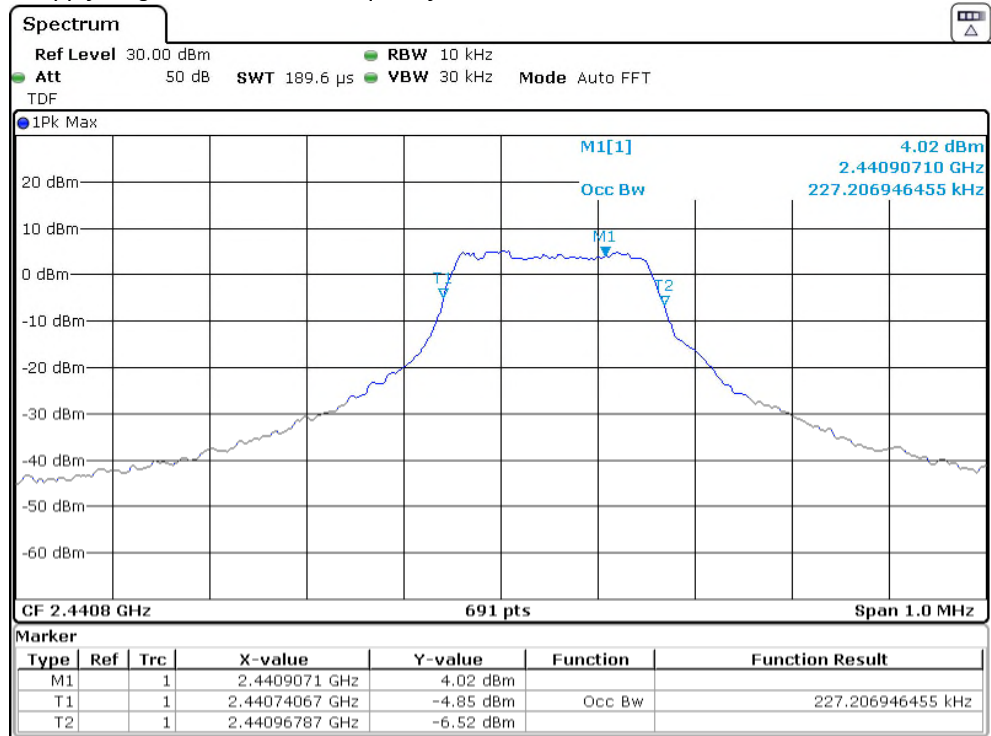
Date: 14.AUG.2024 13:14:38

PoE supply, Right antenna, TX Frequency 2400.8MHz



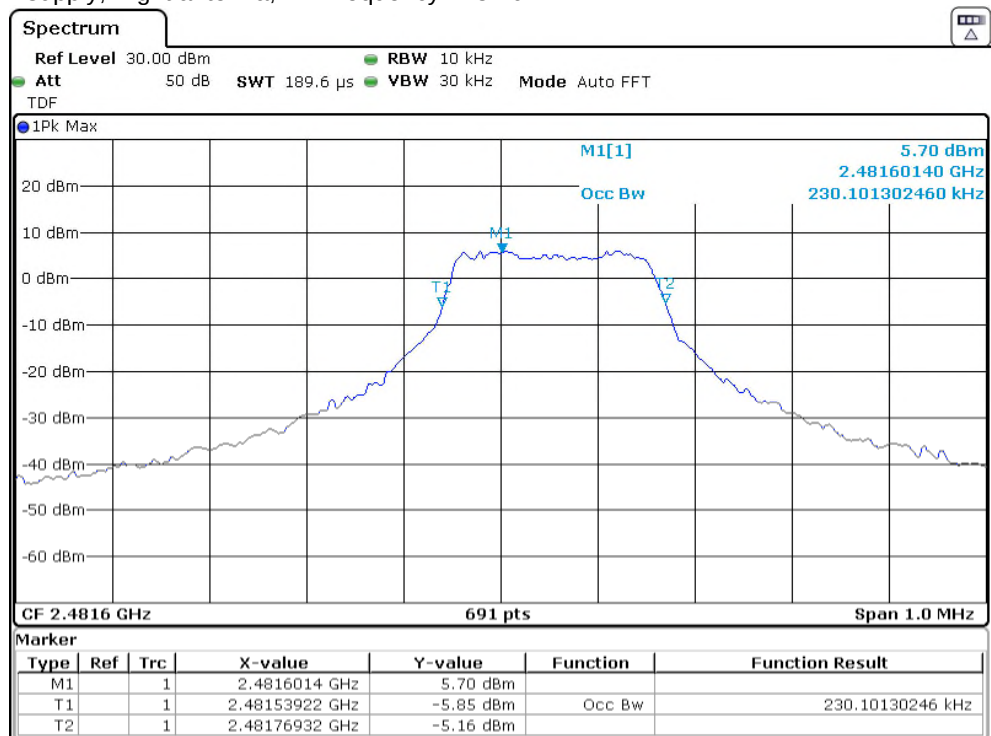
Date: 13.AUG.2024 15:12:33

PoE supply, Right antenna, TX Frequency 2440.8MHz



Date: 13.AUG.2024 15:15:07

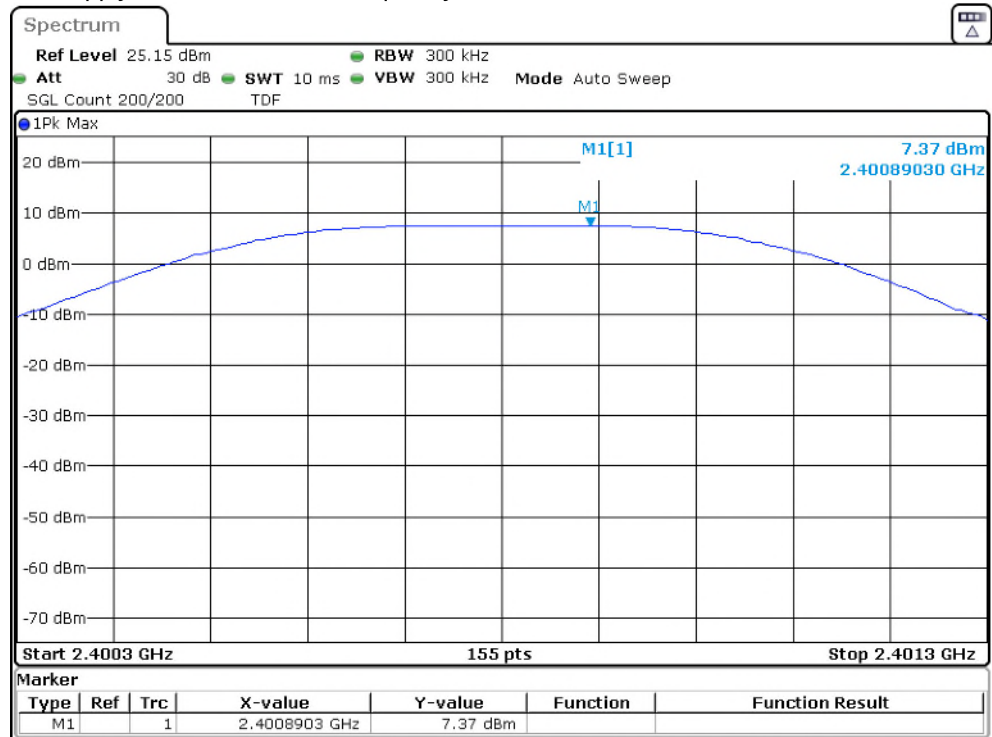
PoE supply, Right antenna, TX Frequency 2481.6MHz



Date: 13.AUG.2024 15:16:41

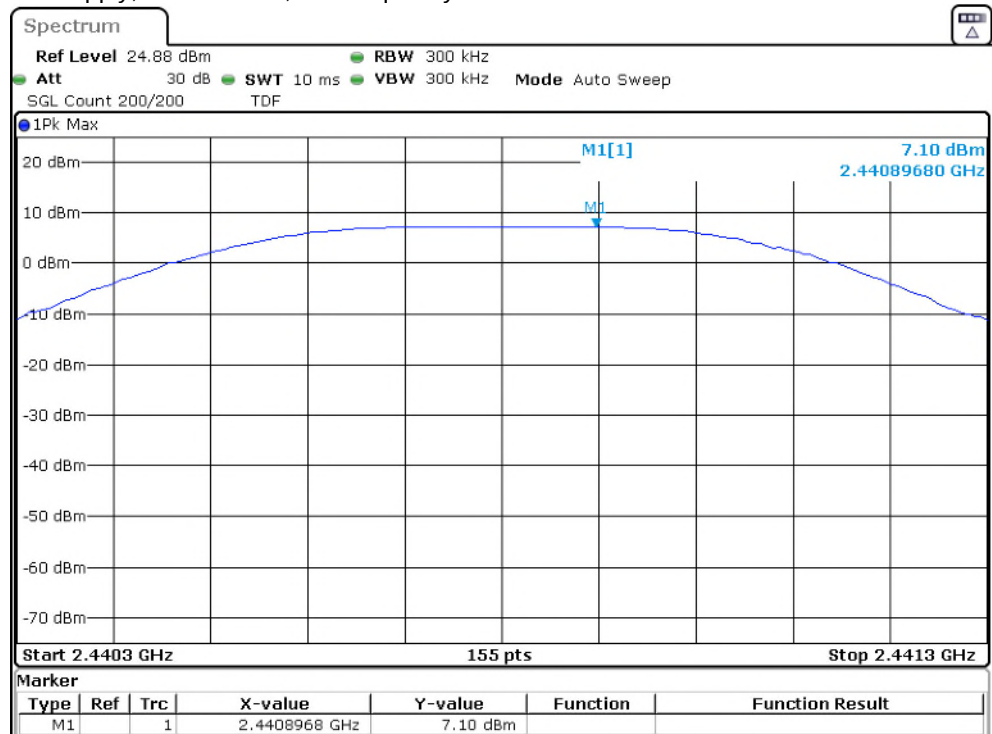
Maximum Peak Conducted Output Power

USB-C supply, Left antenna, TX Frequency 2400.8MHz



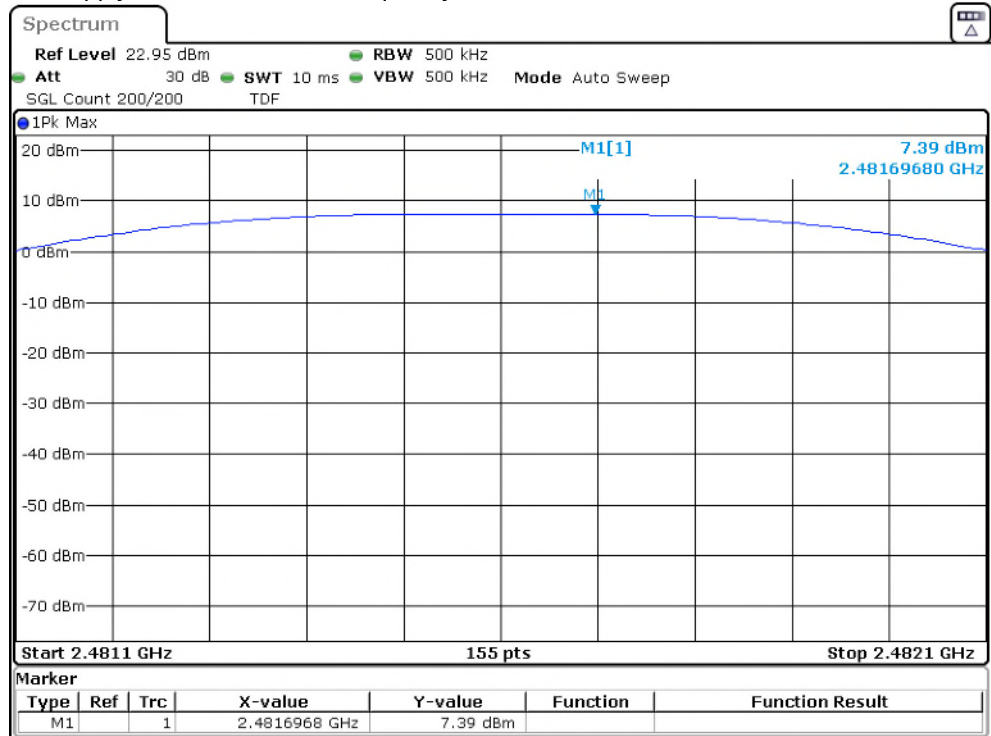
Date: 9.AUG.2024 16:11:08

USB-C supply, Left antenna, TX Frequency 2440.8MHz



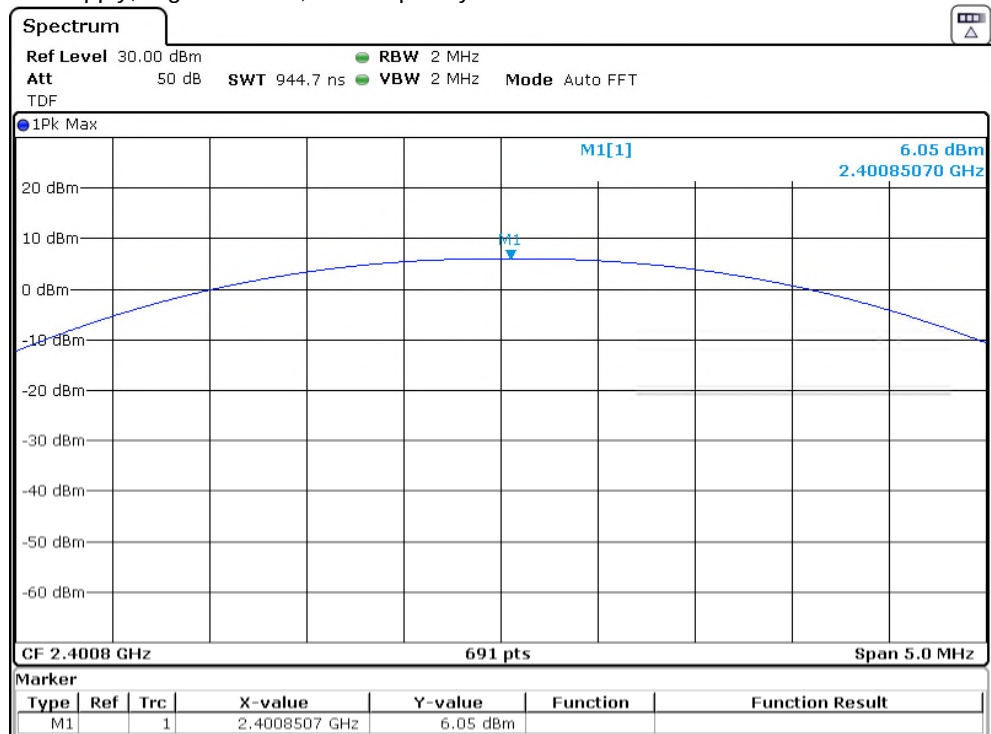
Date: 9.AUG.2024 16:15:27

USB-C supply, Left antenna, TX Frequency 2481.6MHz



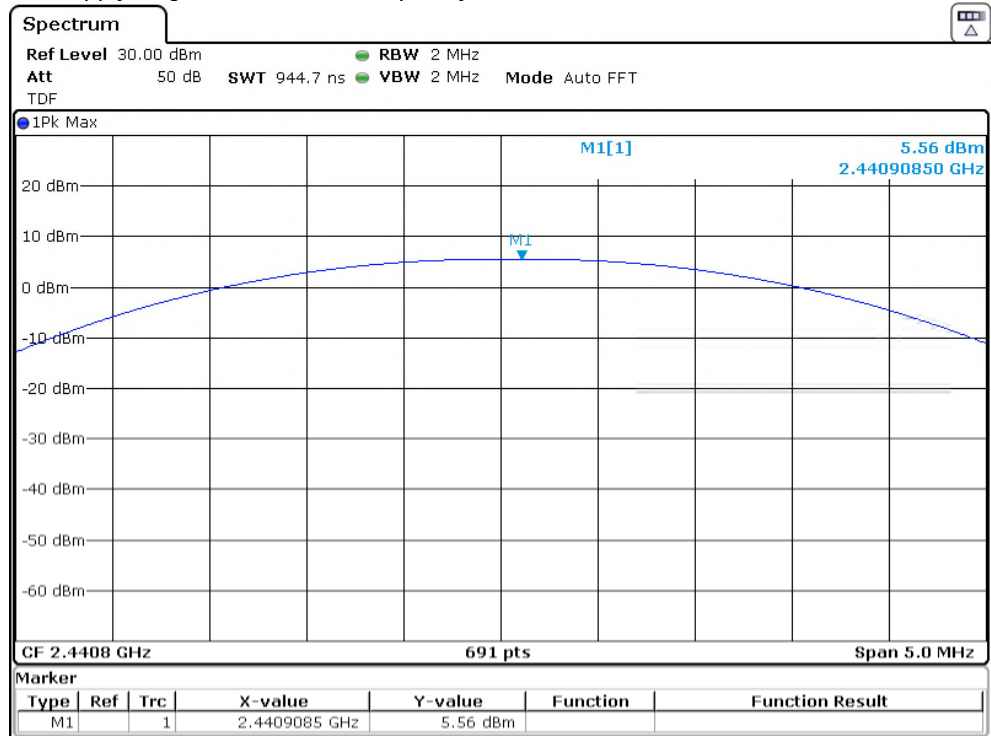
Date: 9.AUG.2024 16:20:43

USB-C supply, Right antenna, TX Frequency 2400.8MHz



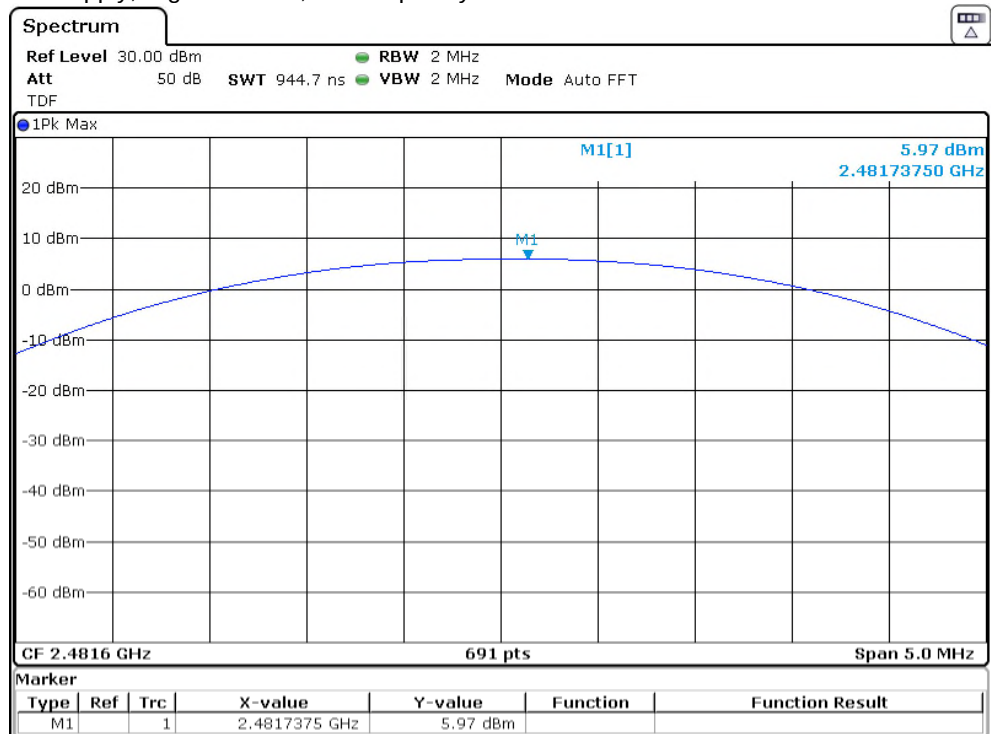
Date: 8.AUG.2024 11:02:39

USB-C supply, Right antenna, TX Frequency 2440.8MHz



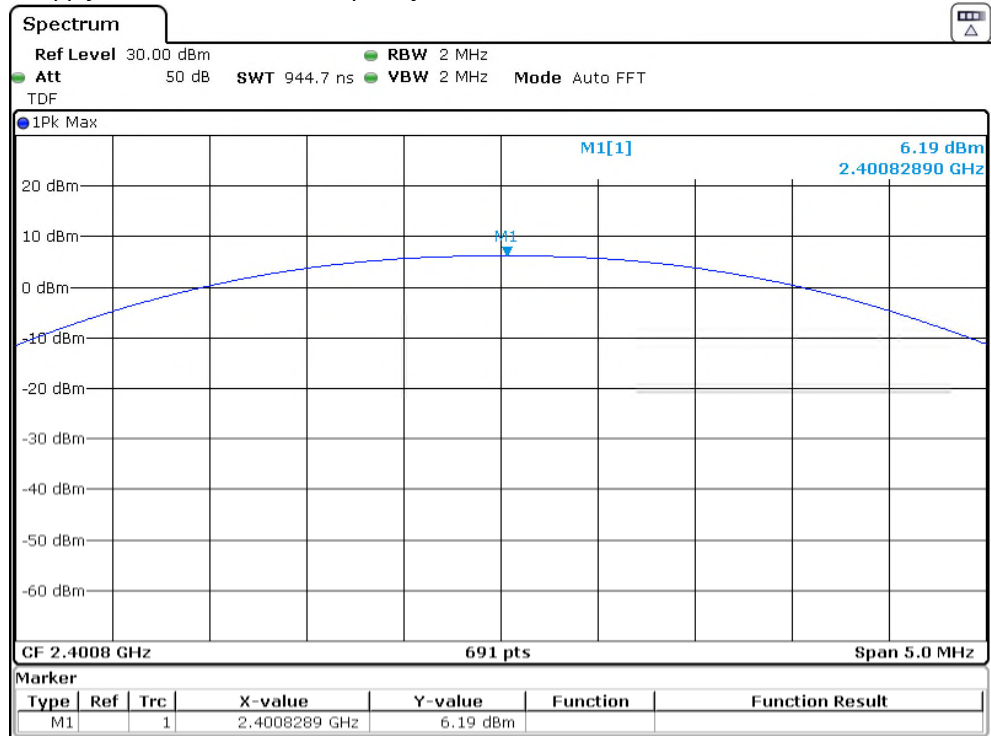
Date: 8.AUG.2024 11:04:31

USB-C supply, Right antenna, TX Frequency 2481.6MHz



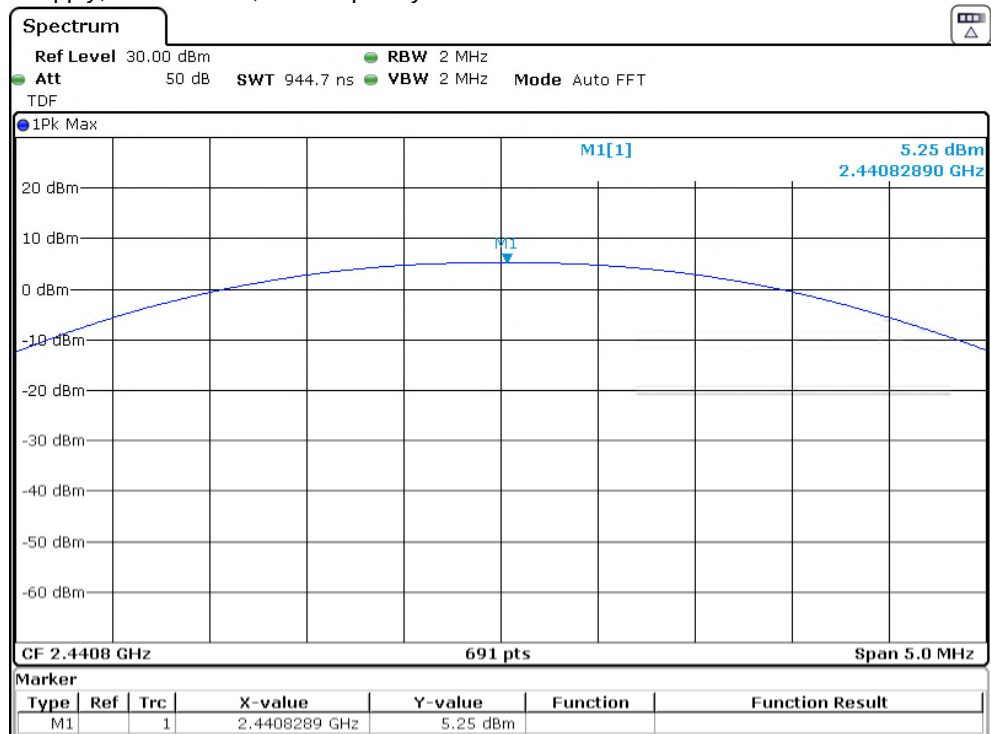
Date: 8.AUG.2024 11:05:05

PoE supply, Left antenna, TX Frequency 2400.8MHz



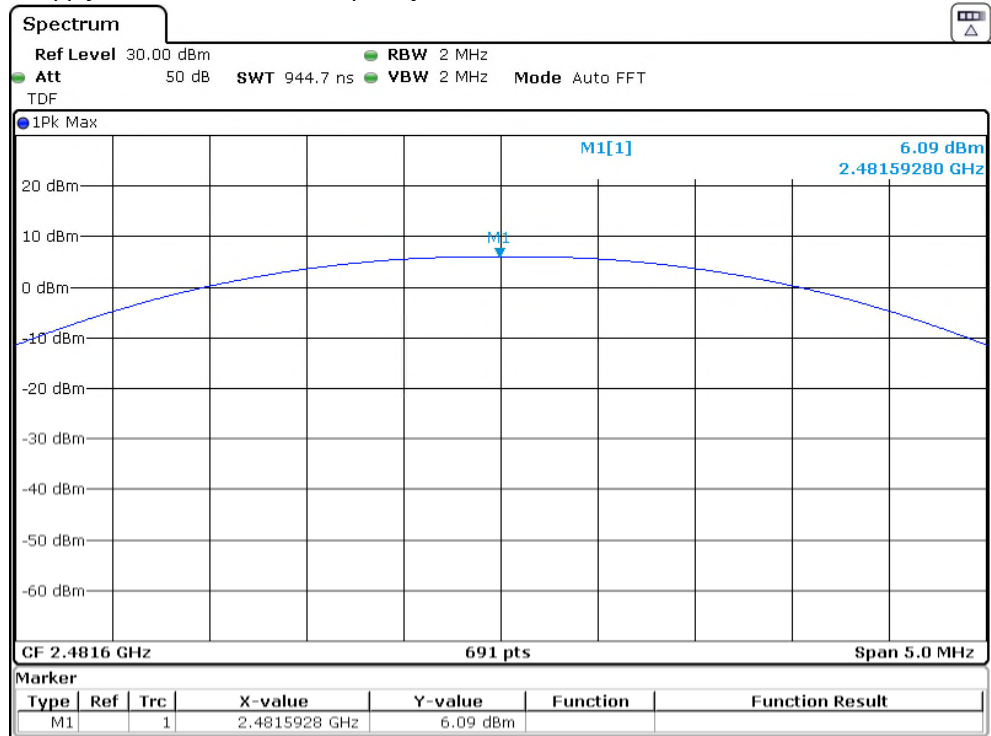
Date: 14.AUG.2024 13:19:19

PoE supply, Left antenna, TX Frequency 2440.8MHz



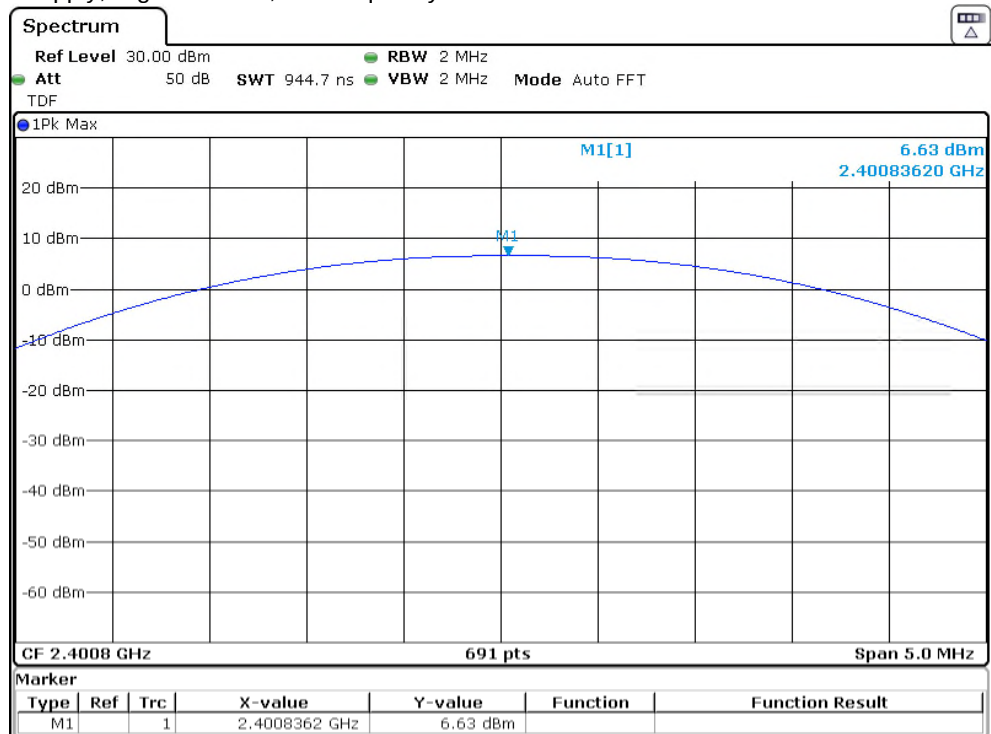
Date: 14.AUG.2024 13:18:34

PoE supply, Left antenna, TX Frequency 2481.6MHz



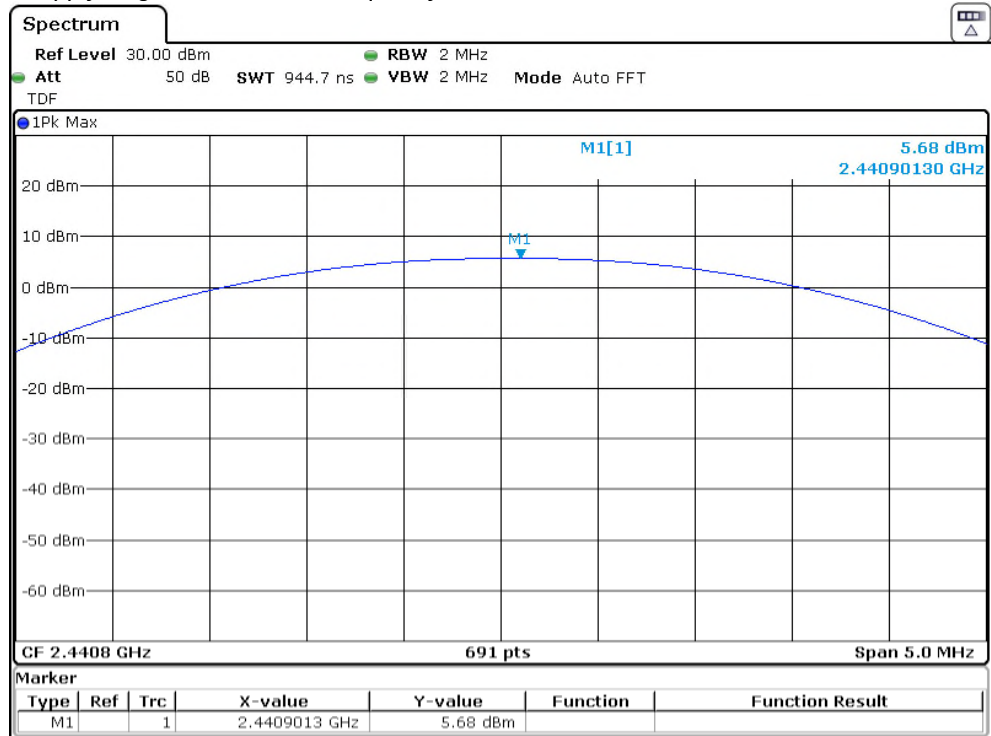
Date: 14.AUG.2024 13:16:15

PoE supply, Right antenna, TX Frequency 2400.8MHz



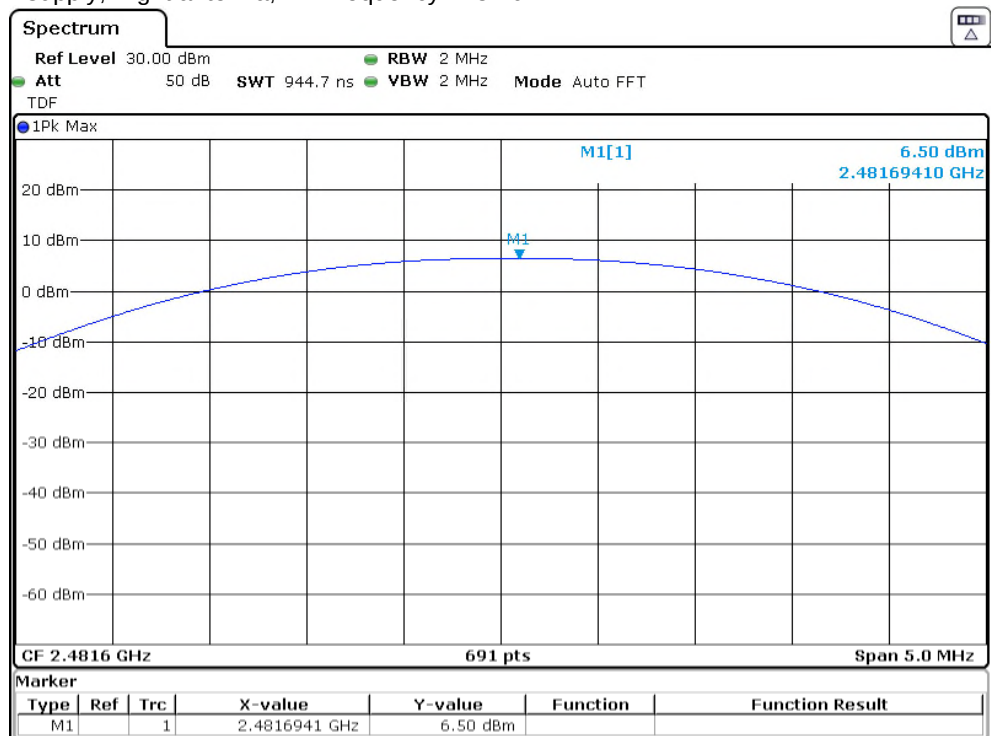
Date: 13.AUG.2024 15:23:35

PoE supply, Right antenna, TX Frequency 2440.8MHz



Date: 13.AUG.2024 15:24:07

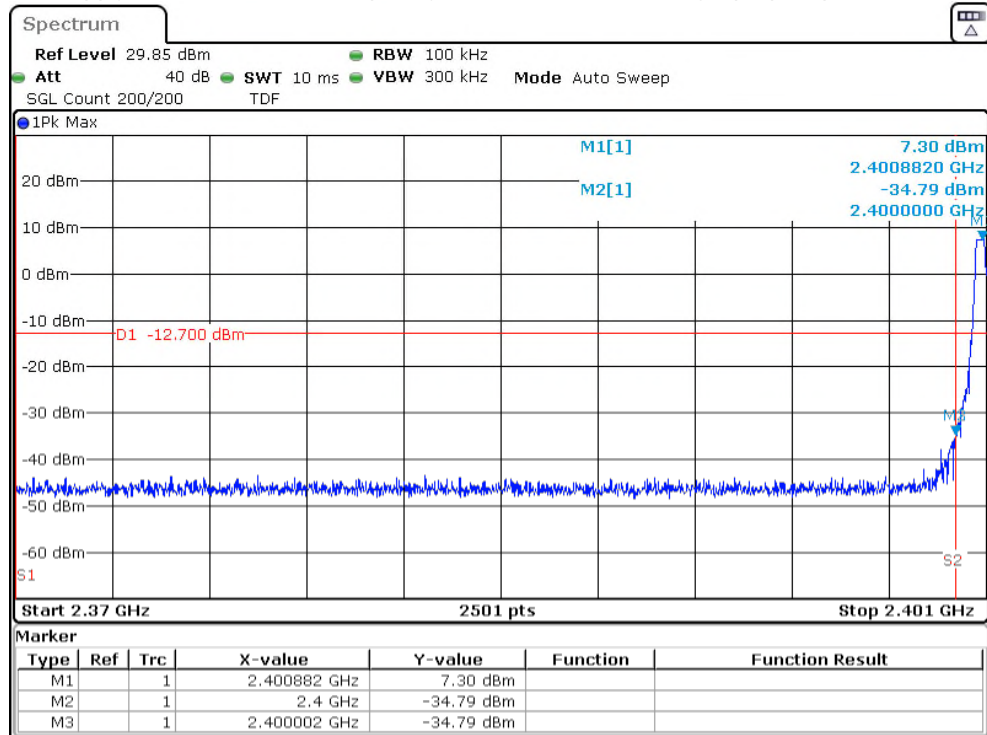
PoE supply, Right antenna, TX Frequency 2481.6MHz



Date: 13.AUG.2024 15:24:38

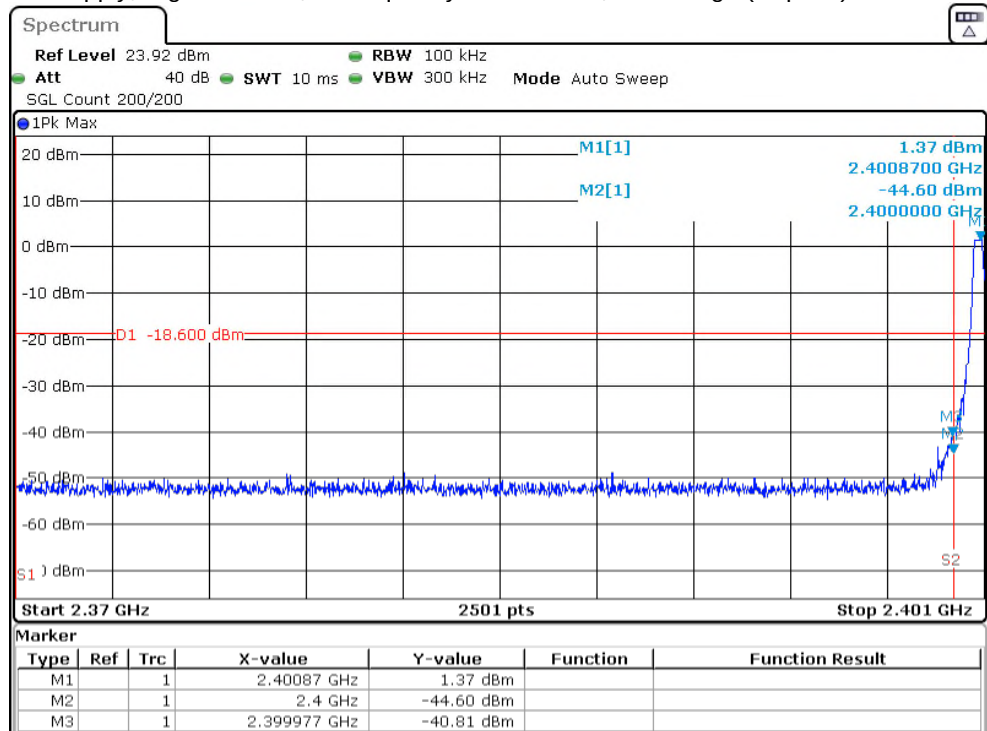
Spurious Conducted Emissions

USB-C supply, Left antenna, Tx frequency: 2400.8MHz, Band Edge (Hop Off)



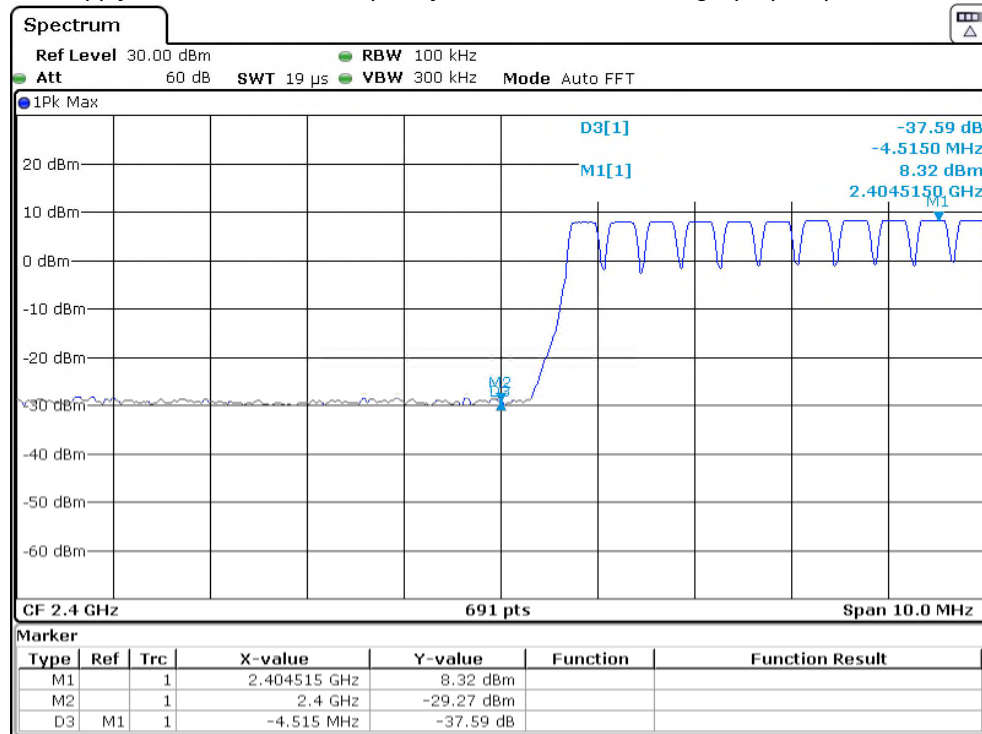
Date: 9.AUG.2024 16:12:16

USB-C supply, Right antenna, Tx frequency: 2400.8MHz, Band Edge (Hop Off)



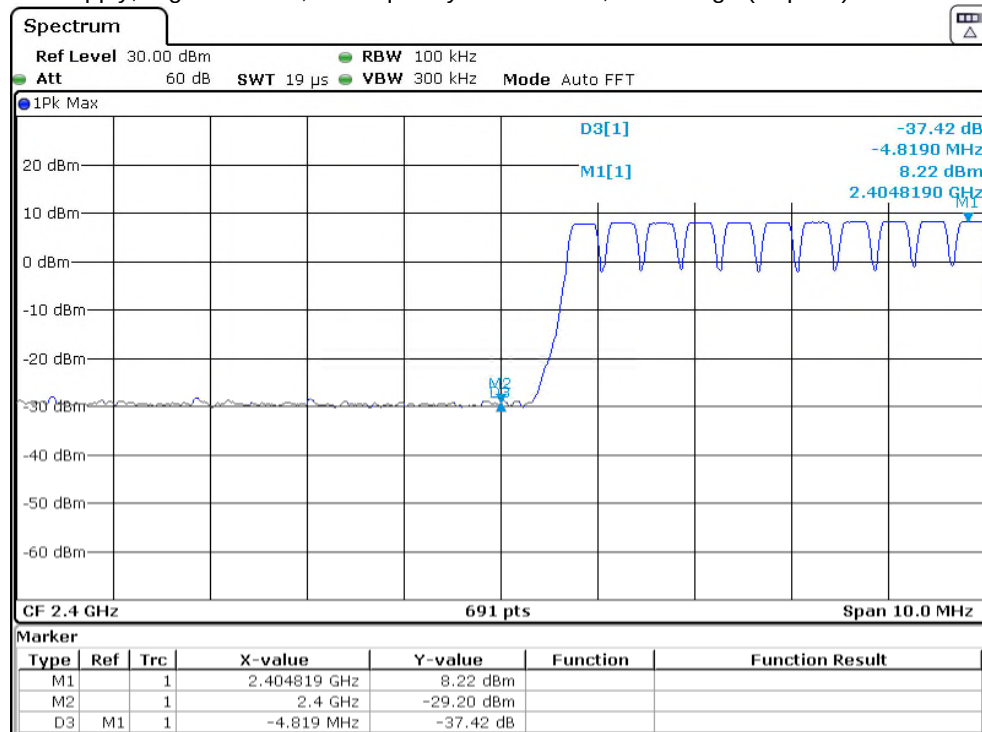
Date: 9.AUG.2024 16:59:00

USB-C supply, Left antenna, Tx frequency: 2400.8MHz, Band Edge (Hop On)



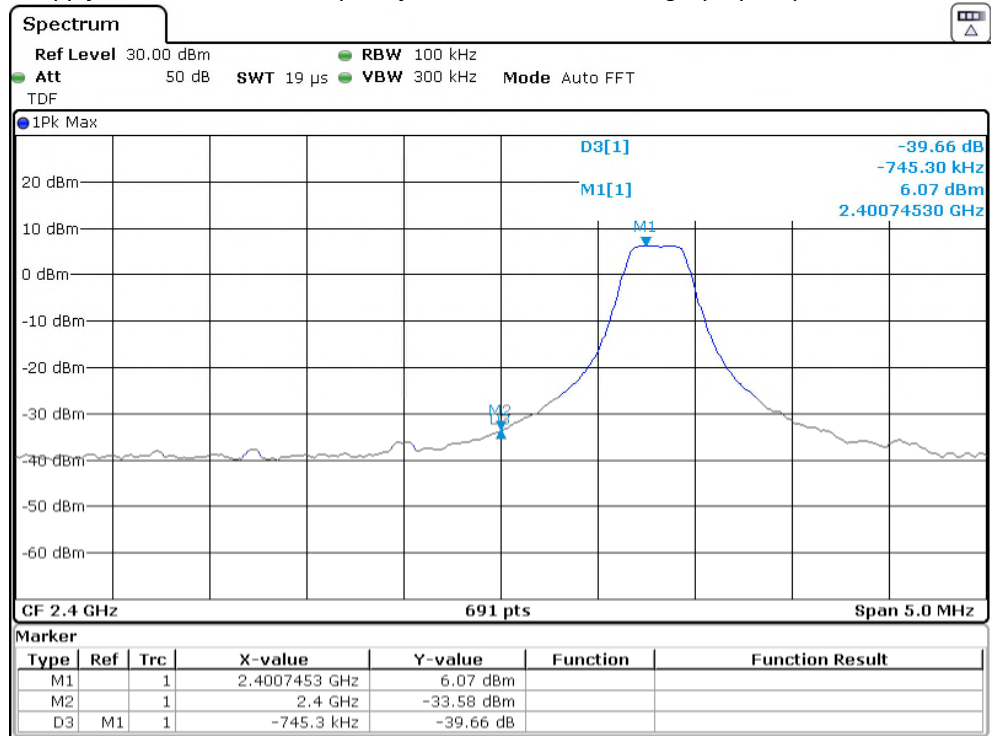
Date: 13.AUG.2024 11:21:51

USB-C supply, Right antenna, Tx frequency: 2400.8MHz, Band Edge (Hop On)



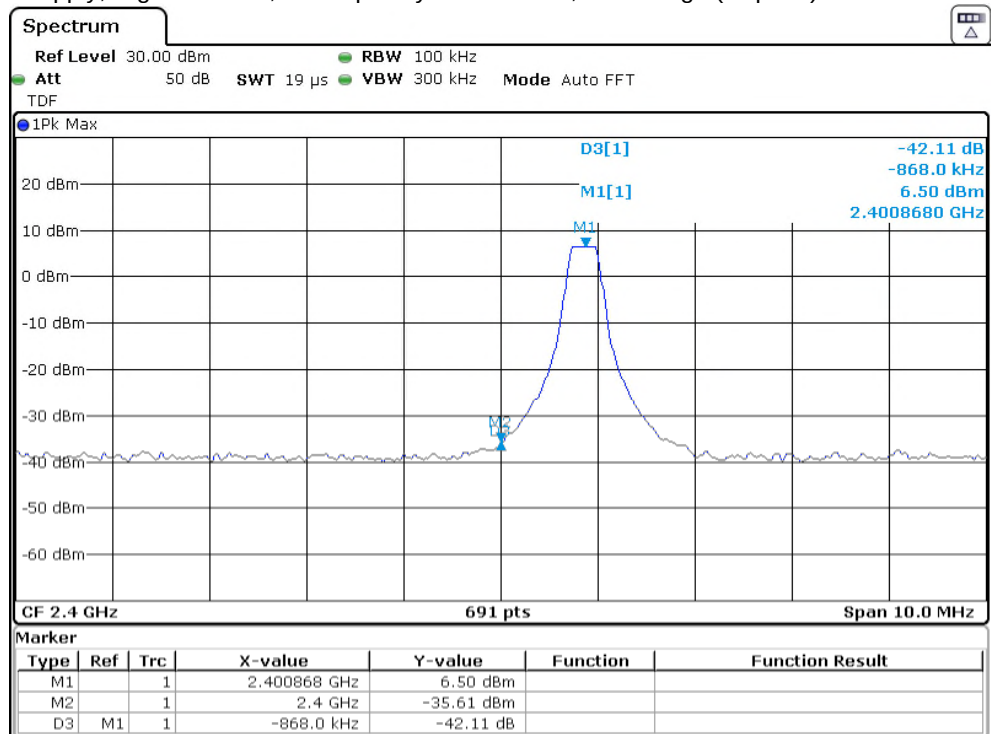
Date: 13.AUG.2024 14:17:10

PoE supply, Left antenna, Tx frequency: 2400.8MHz, Band Edge (Hop Off)



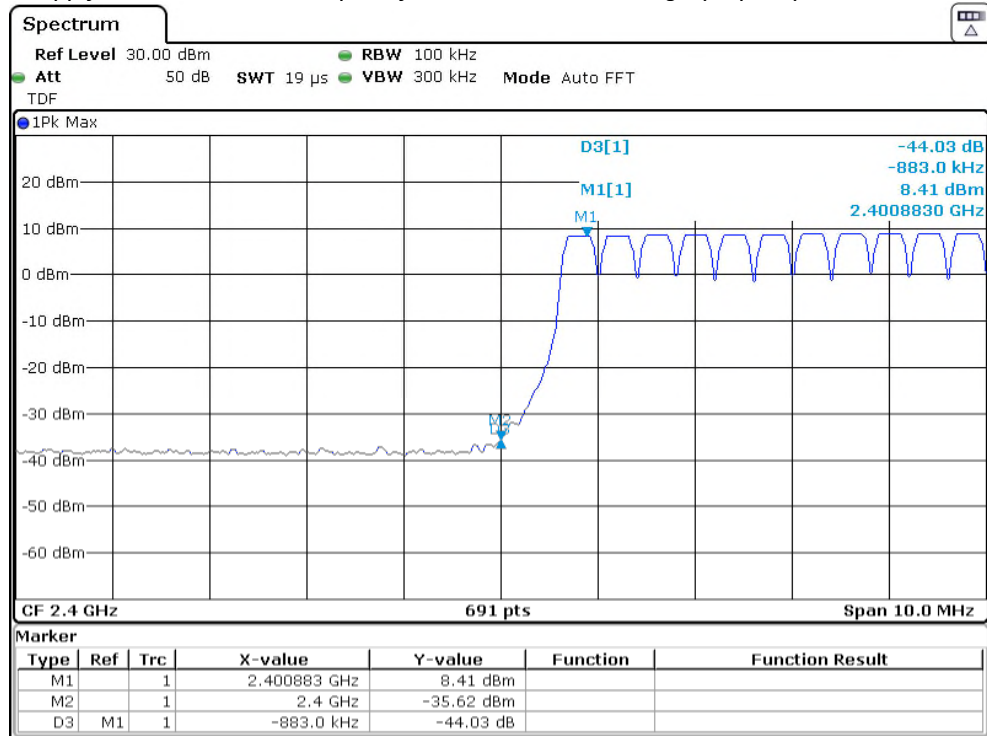
Date: 14.AUG.2024 13:20:49

PoE supply, Right antenna, Tx frequency: 2400.8MHz, Band Edge (Hop Off)



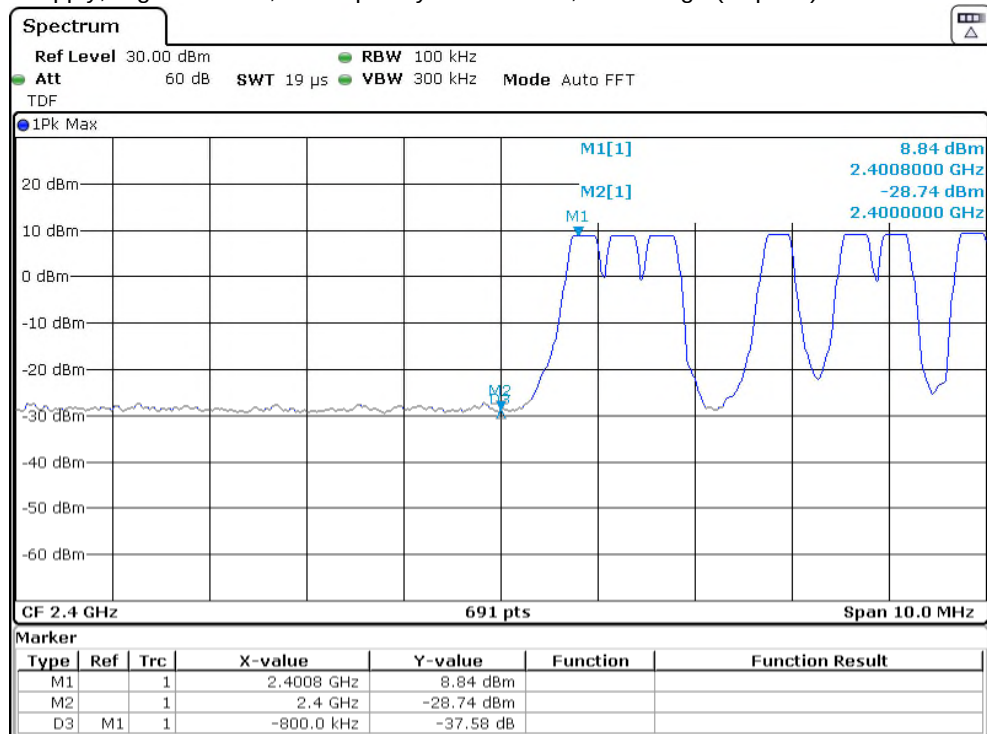
Date: 13.AUG.2024 15:19:26

PoE supply, Left antenna, Tx frequency: 2400.8MHz, Band Edge (Hop On)



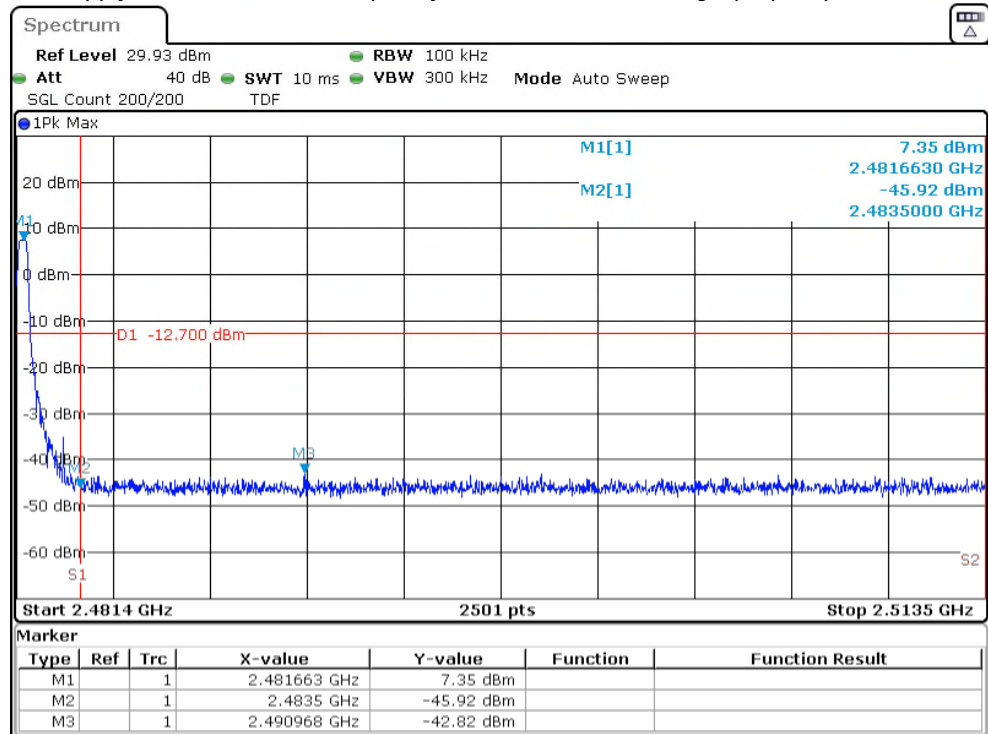
Date: 14.AUG.2024 14:49:43

PoE supply, Right antenna, Tx frequency: 2400.8MHz, Band Edge (Hop On)



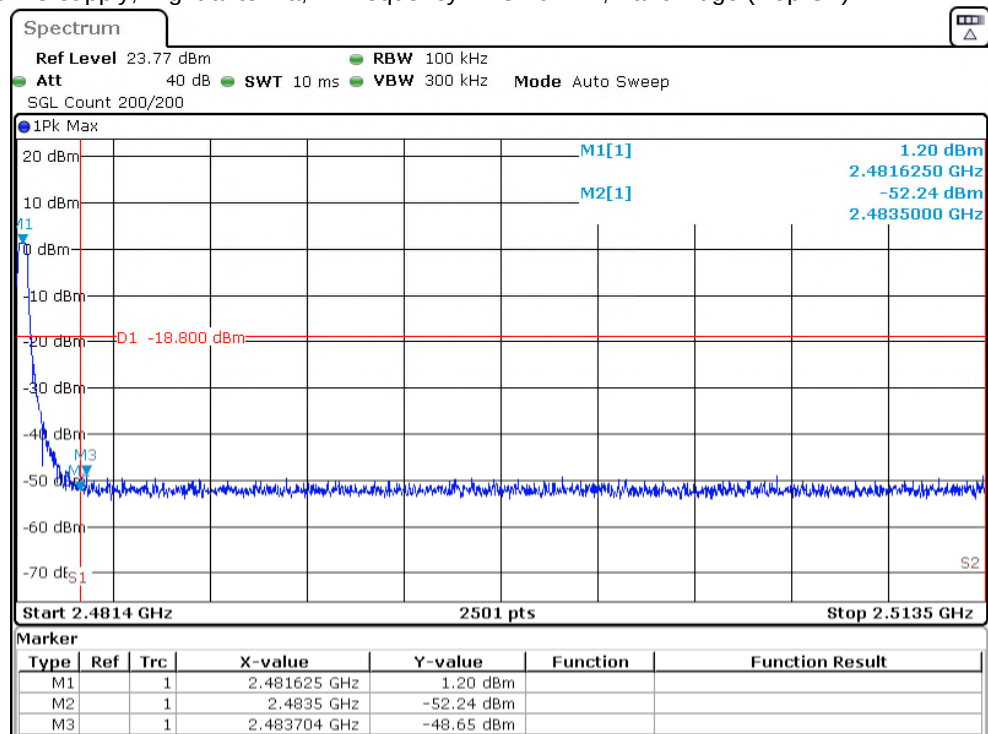
Date: 13.AUG.2024 17:32:04

USB-C supply, Left antenna, Tx frequency: 2481.6MHz, Band Edge (Hop Off)



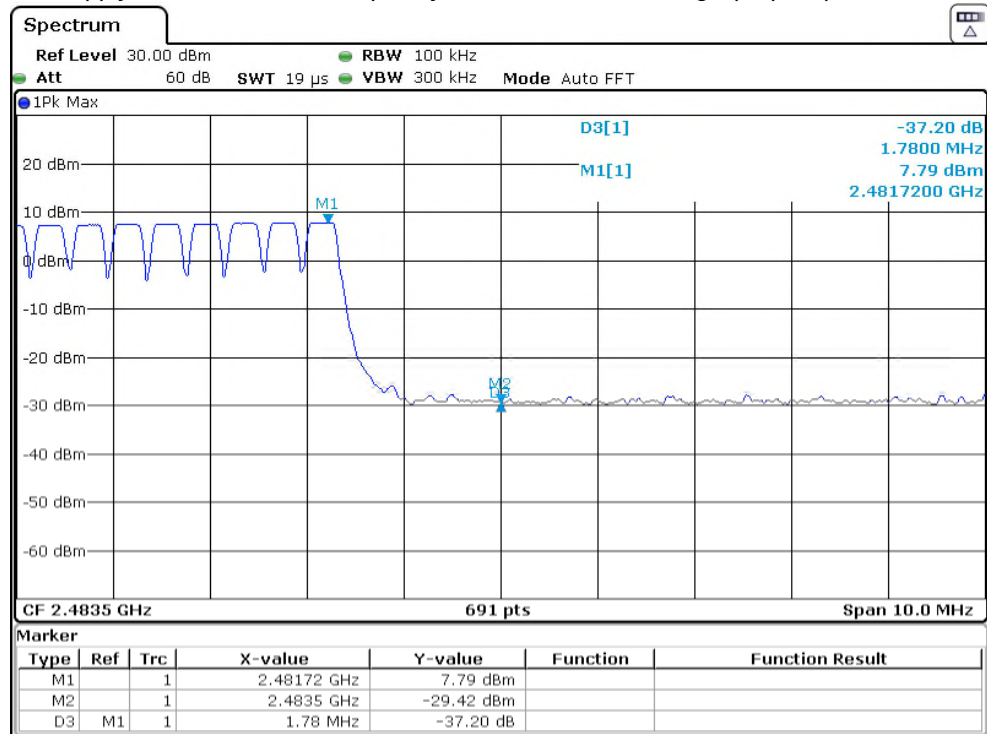
Date: 9.AUG.2024 16:22:05

USB-C supply, Right antenna, Tx frequency: 2481.6MHz, Band Edge (Hop Off)



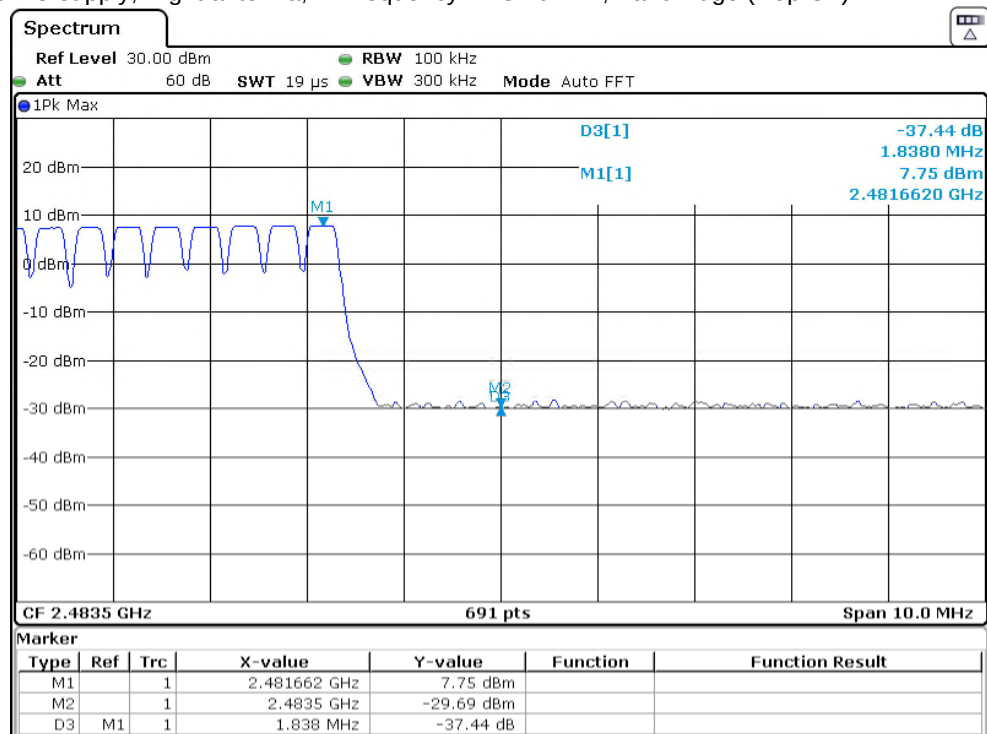
Date: 9.AUG.2024 17:07:25

USB-C supply, Left antenna, Tx frequency: 2481.6MHz, Band Edge (Hop On)



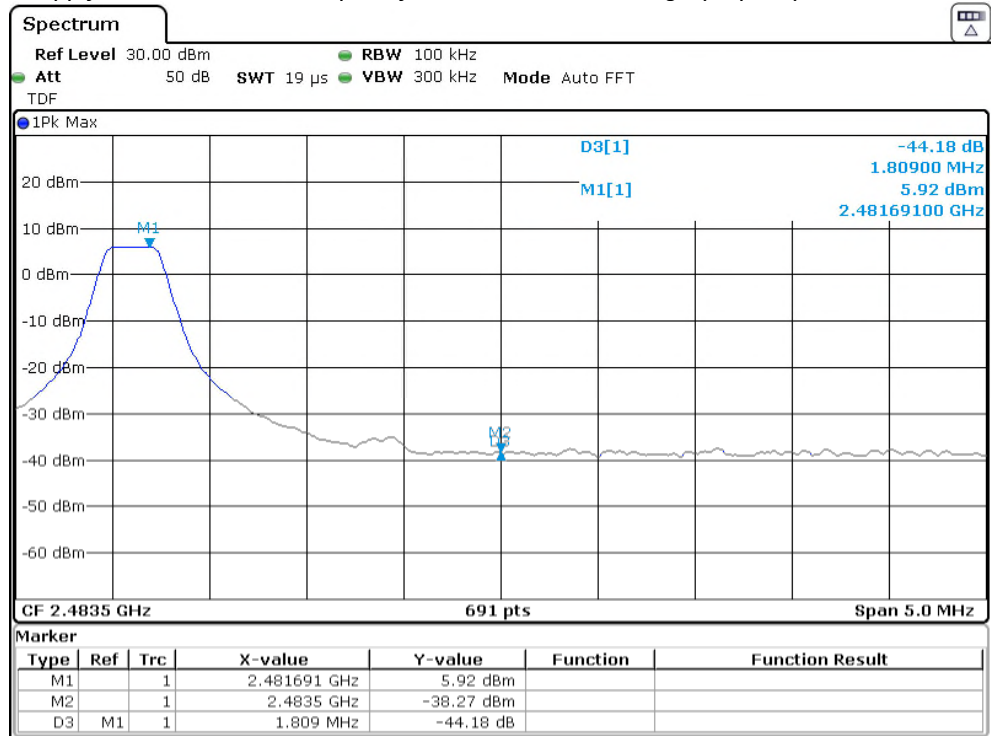
Date: 13.AUG.2024 11:15:41

USB-C supply, Right antenna, Tx frequency: 2481.6MHz, Band Edge (Hop On)



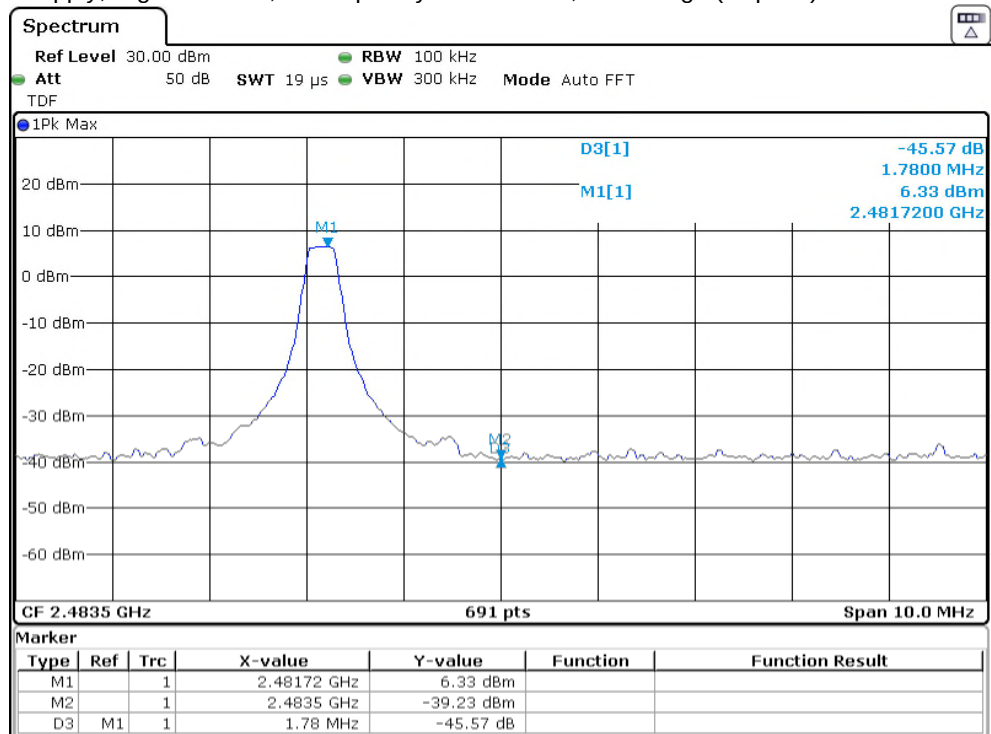
Date: 13.AUG.2024 14:20:04

PoE supply, Left antenna, Tx frequency: 2481.6MHz, Band Edge (Hop Off)



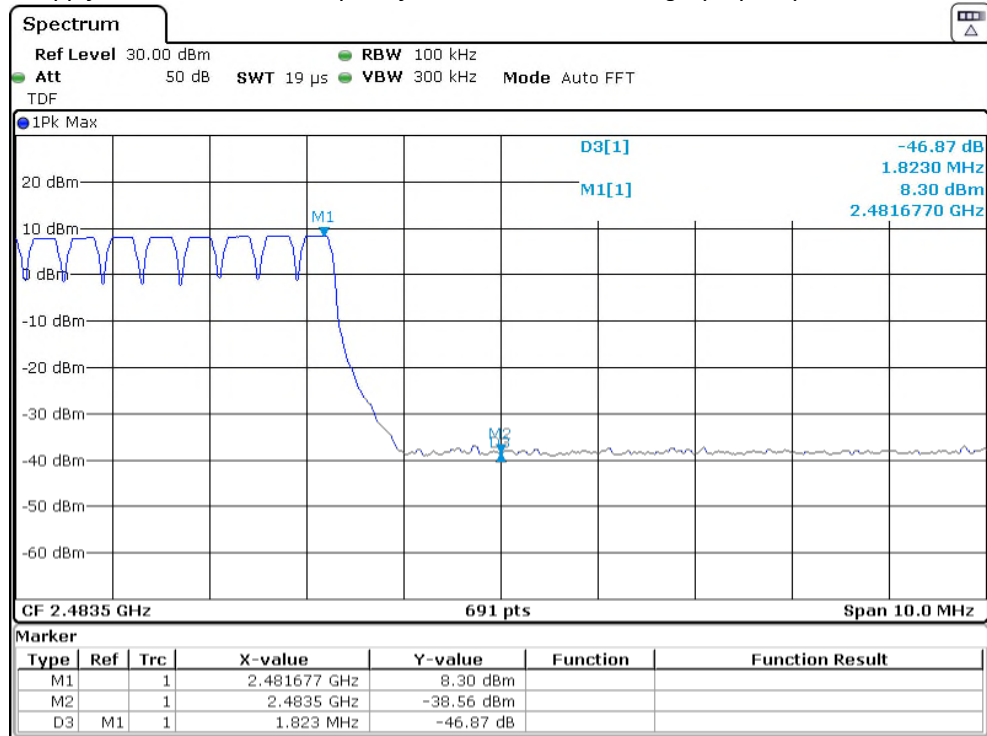
Date: 14.AUG.2024 13:23:38

PoE supply, Right antenna, Tx frequency: 2481.6MHz, Band Edge (Hop Off)



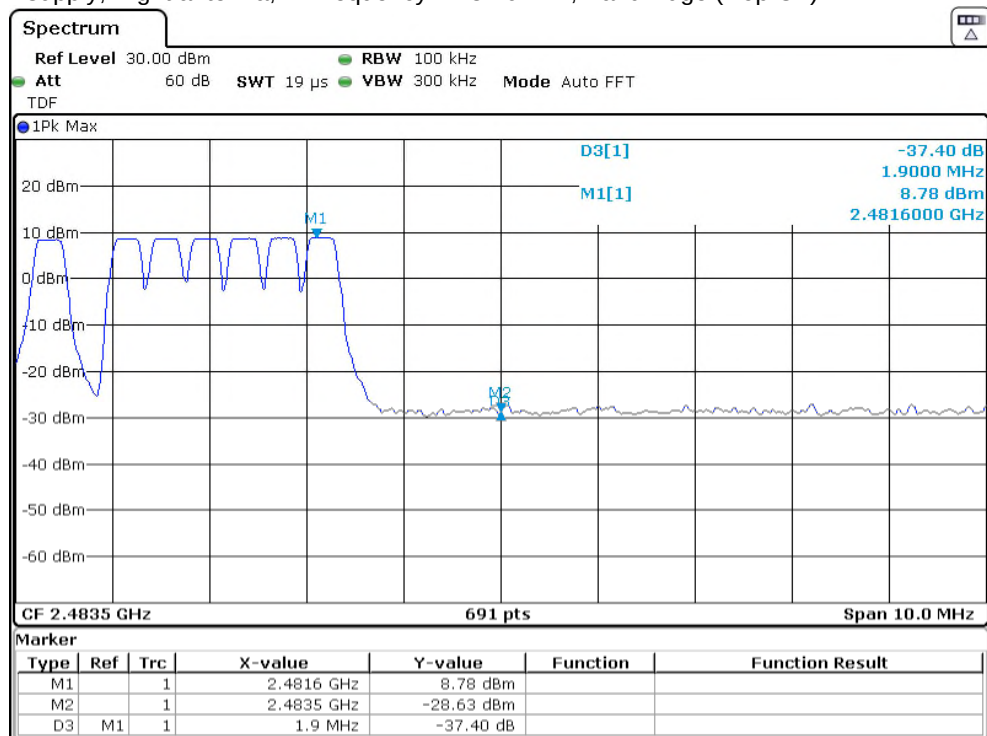
Date: 13.AUG.2024 15:18:11

PoE supply, Left antenna, Tx frequency: 2481.6MHz, Band Edge (Hop On)



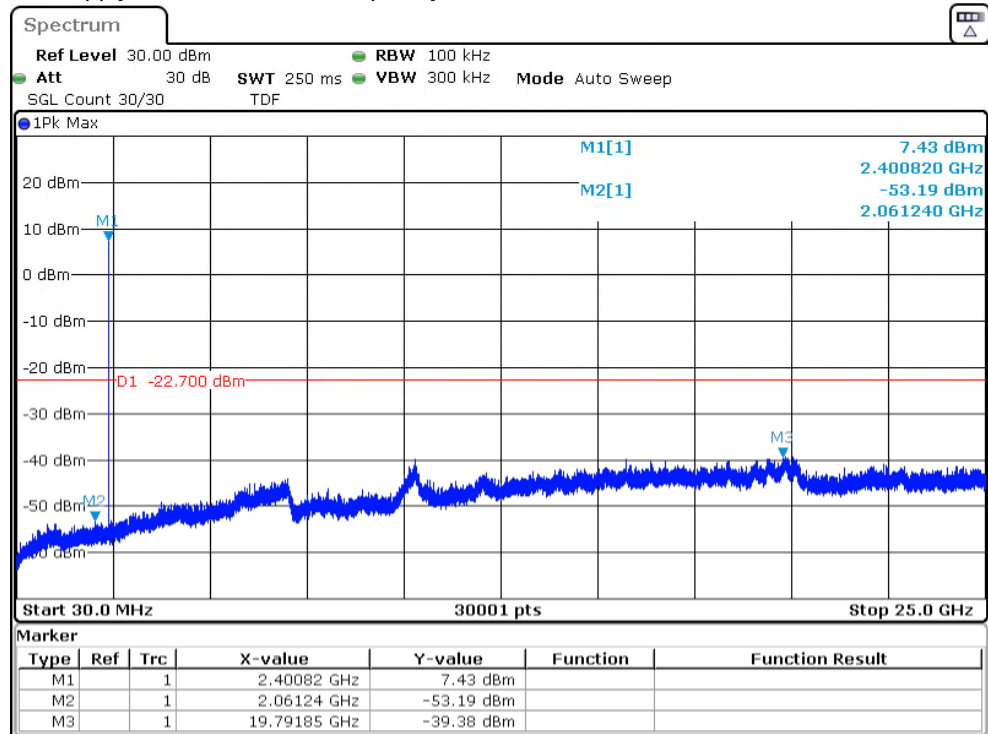
Date: 14.AUG.2024 14:55:33

PoE supply, Right antenna, Tx frequency: 2481.6MHz, Band Edge (Hop On)



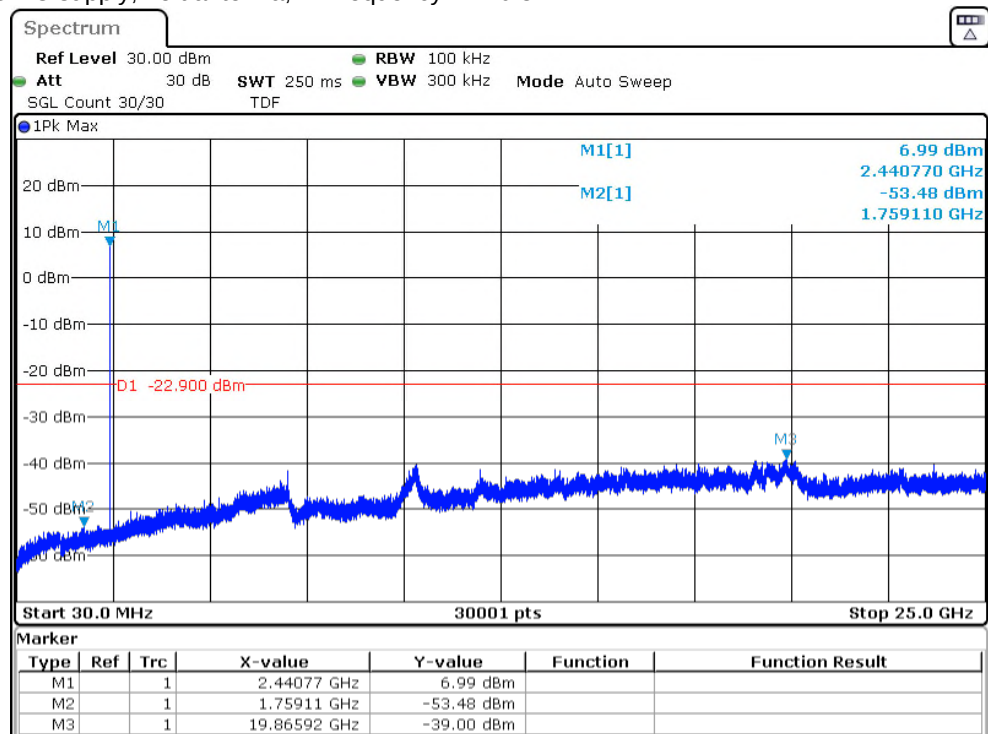
Date: 13.AUG.2024 17:33:16

USB-C supply, Left antenna, Tx frequency: 2400.8MHz



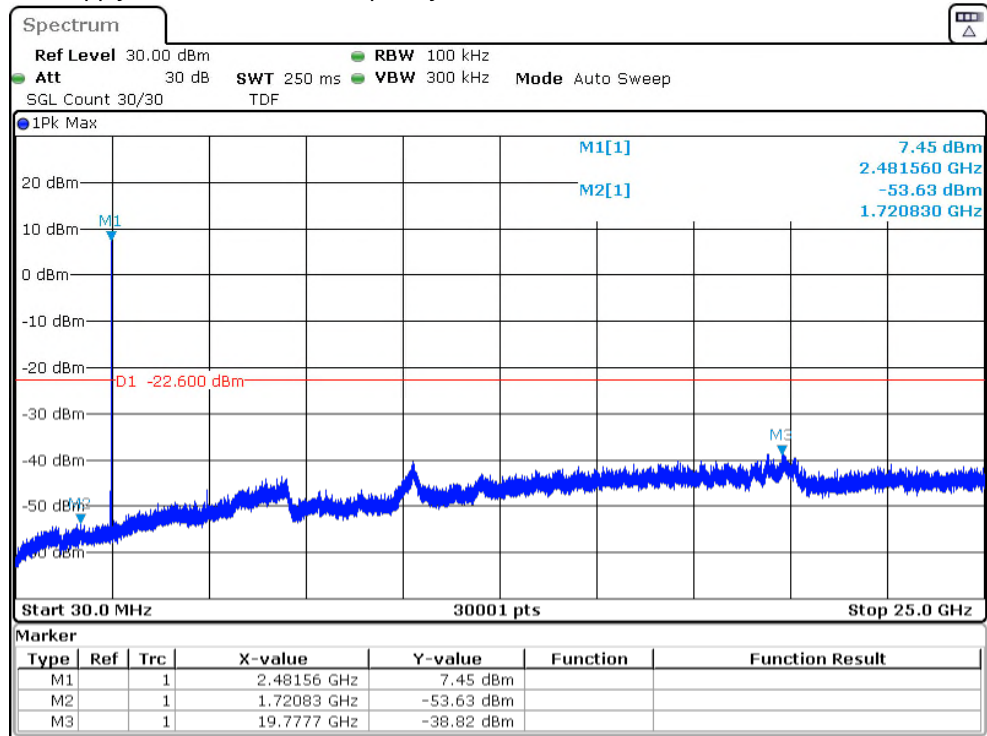
Date: 9.AUG.2024 16:13:55

USB-C supply, Left antenna, Tx frequency: 2440.8MHz



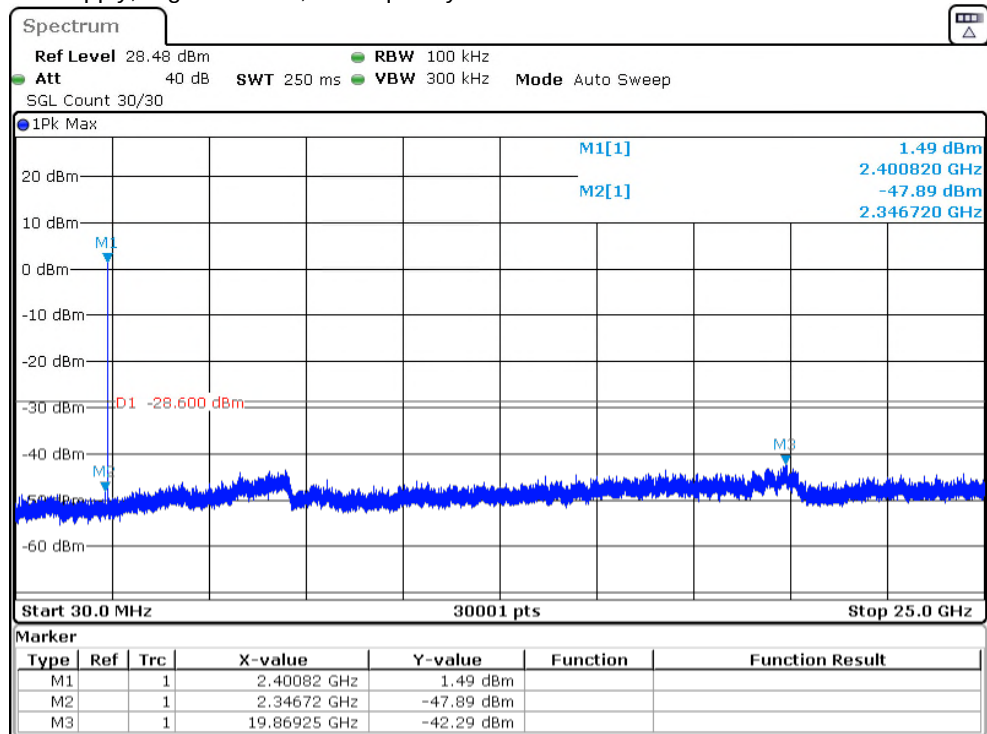
Date: 9.AUG.2024 16:19:08

USB-C supply, Left antenna, Tx frequency: 2481.6MHz



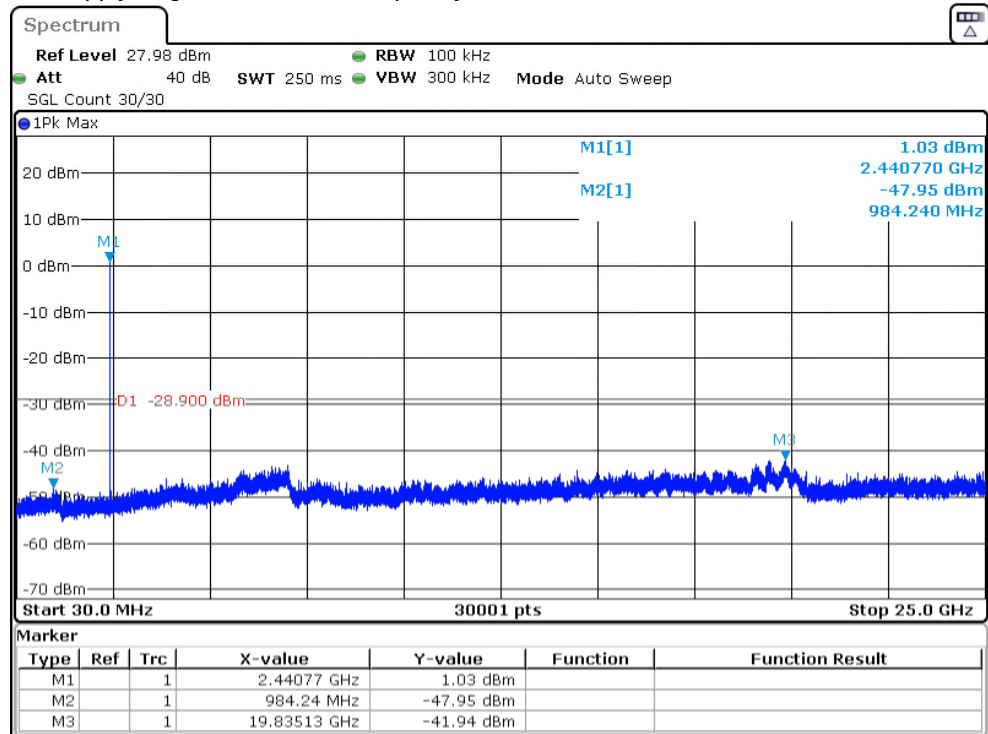
Date: 9.AUG.2024 16:23:58

USB-C supply, Right antenna, Tx frequency: 2400.8MHz



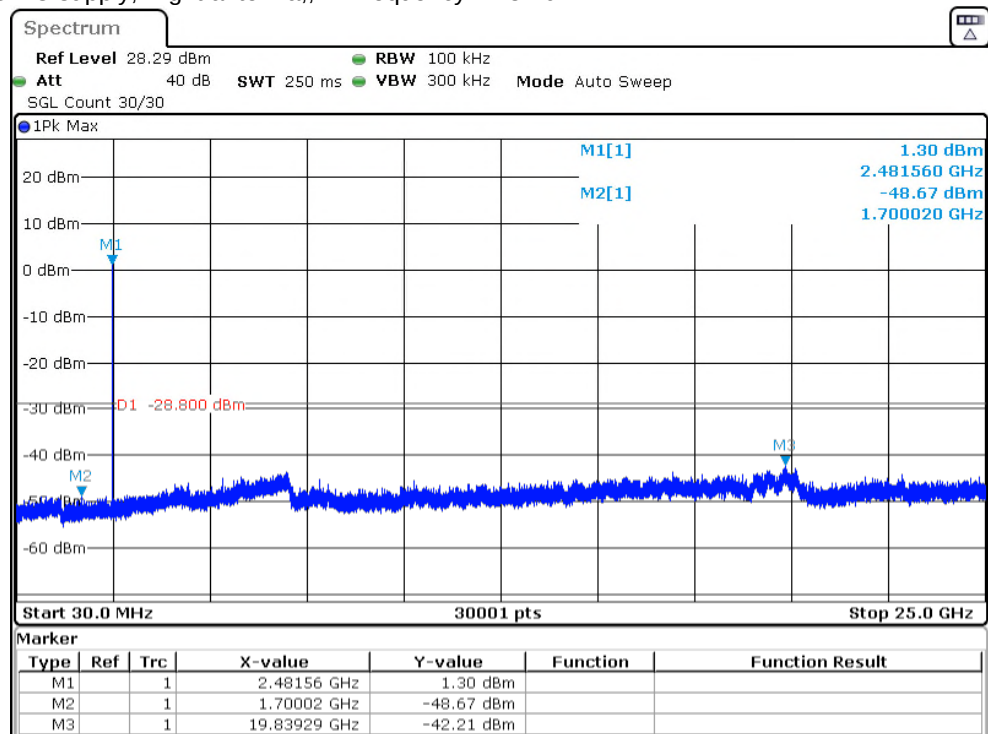
Date: 9.AUG.2024 17:00:40

USB-C supply, Right antenna,, Tx frequency: 2440.8MHz



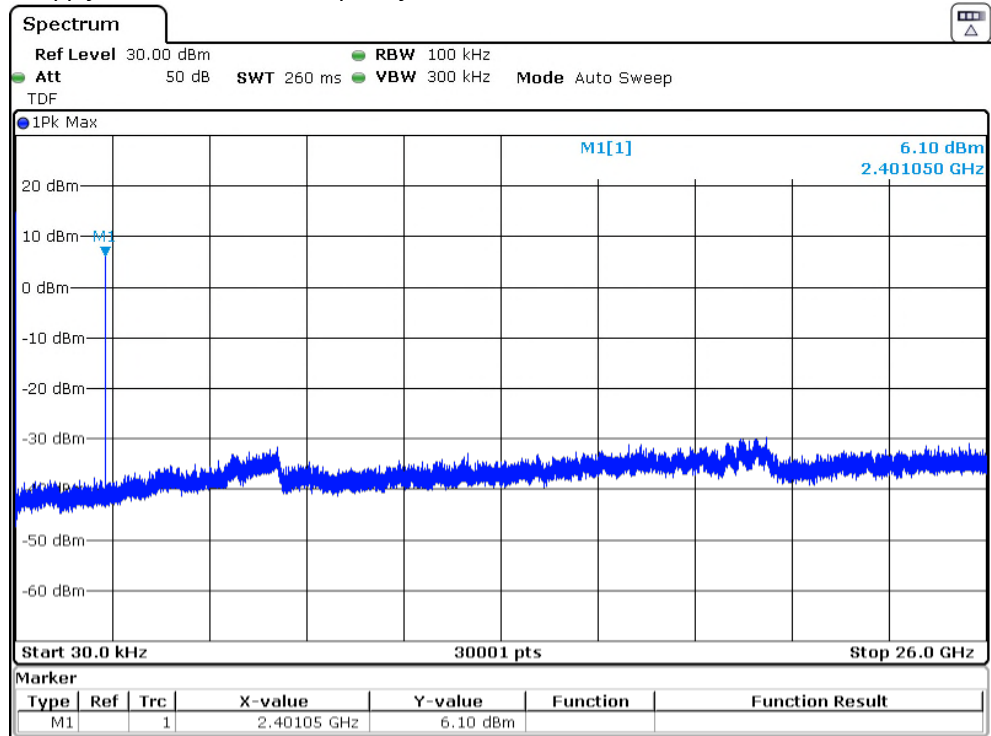
Date: 9.AUG.2024 17:04:54

USB-C supply, Right antenna,, Tx frequency: 2481.6MHz



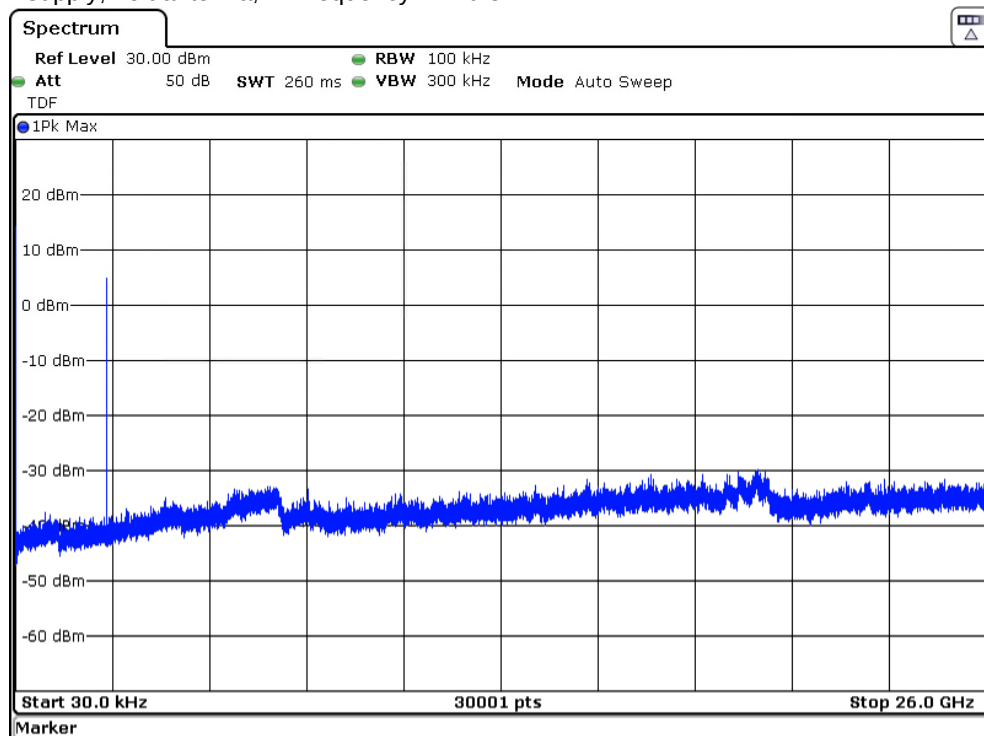
Date: 9.AUG.2024 17:09:05

PoE supply, Left antenna, Tx frequency: 2400.8MHz



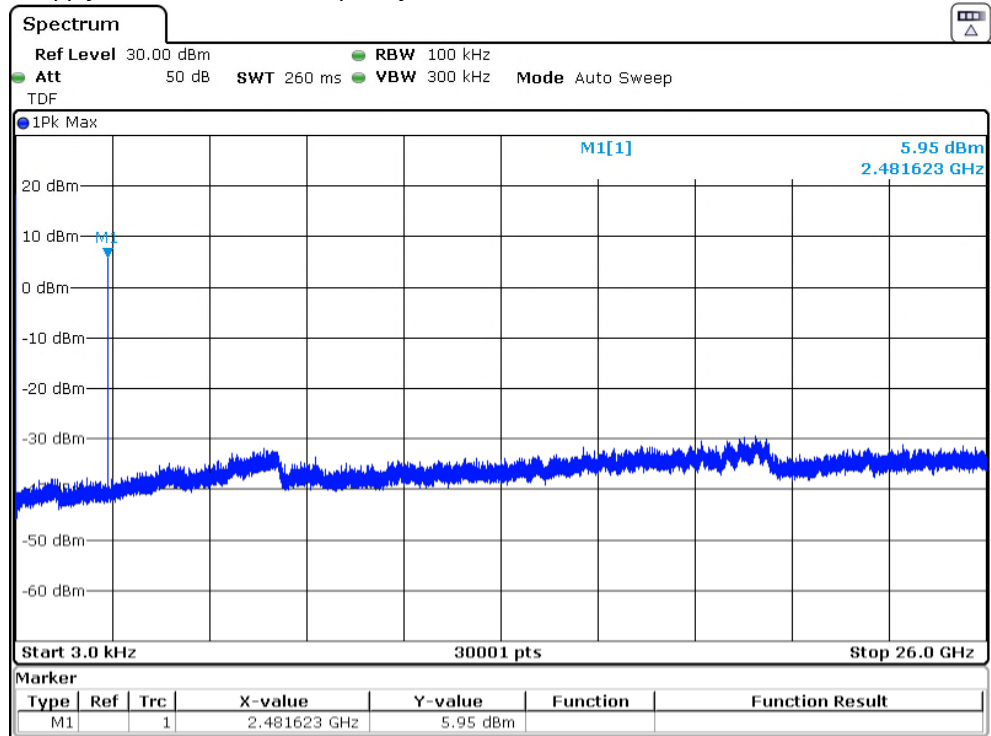
Date: 14.AUG.2024 13:43:23

PoE supply, Left antenna, Tx frequency: 2440.8MHz



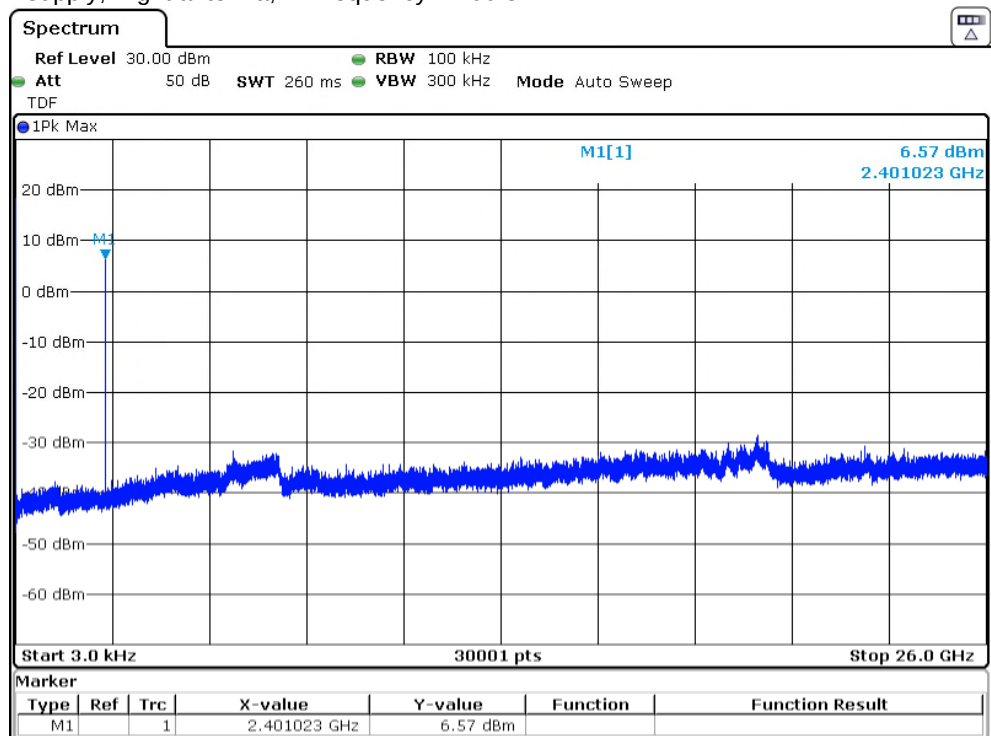
Date: 14.AUG.2024 13:32:52

PoE supply, Left antenna, Tx frequency: 2481.6MHz



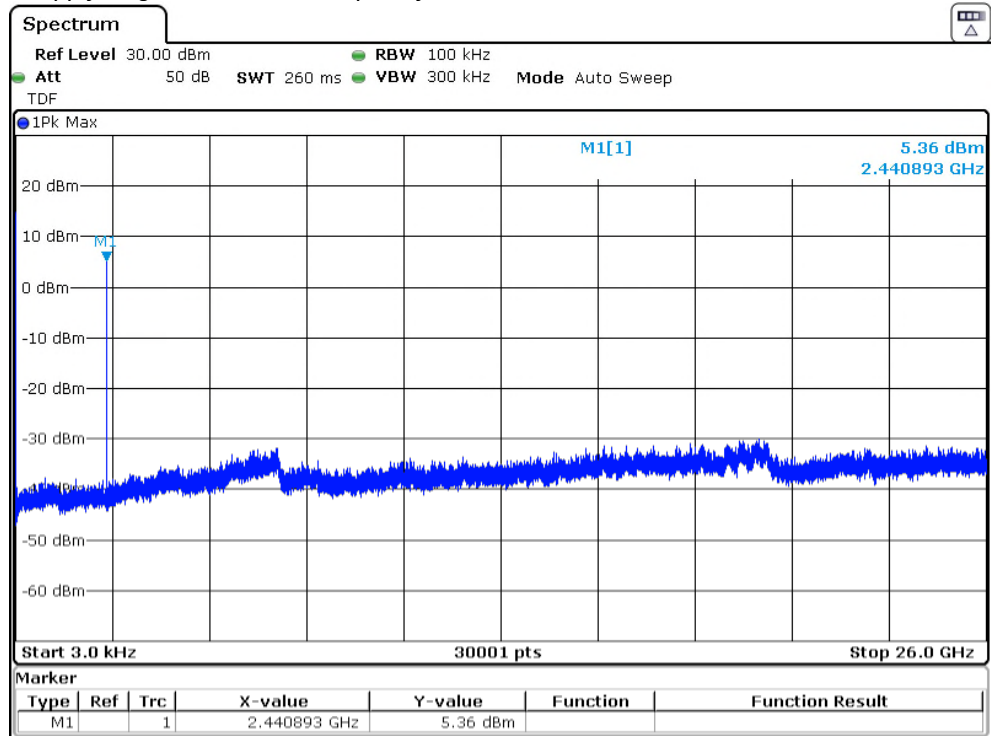
Date: 14.AUG.2024 13:26:57

PoE supply, Right antenna, Tx frequency: 2400.8MHz



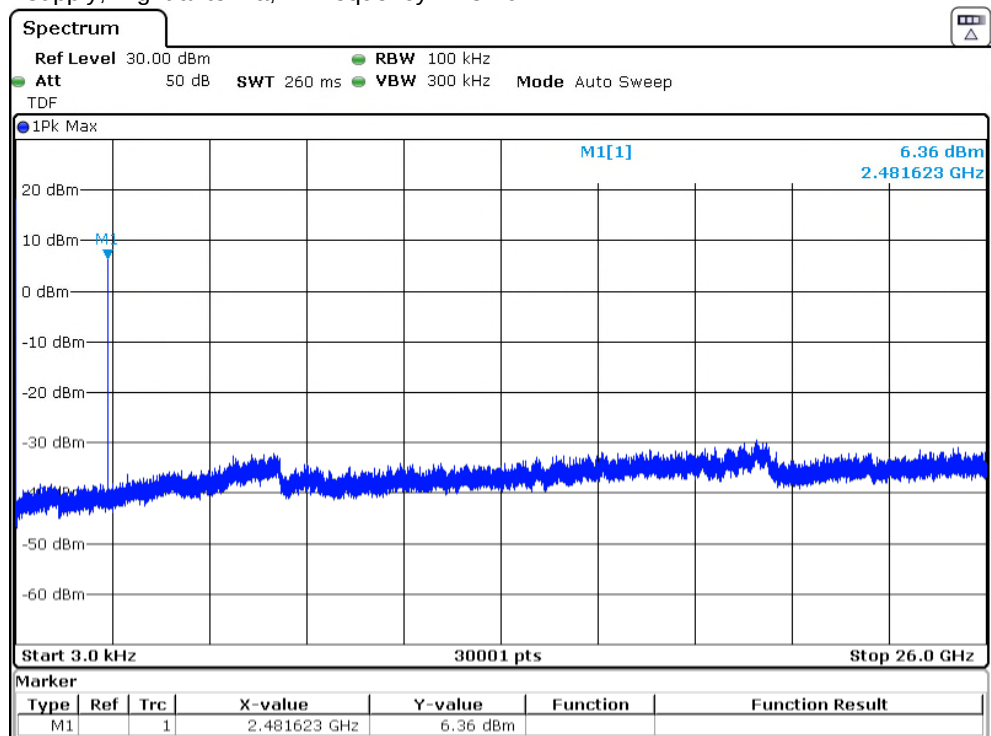
Date: 13.AUG.2024 15:26:52

PoE supply, Right antenna, Tx frequency: 2440.8MHz



Date: 13.AUG.2024 15:31:15

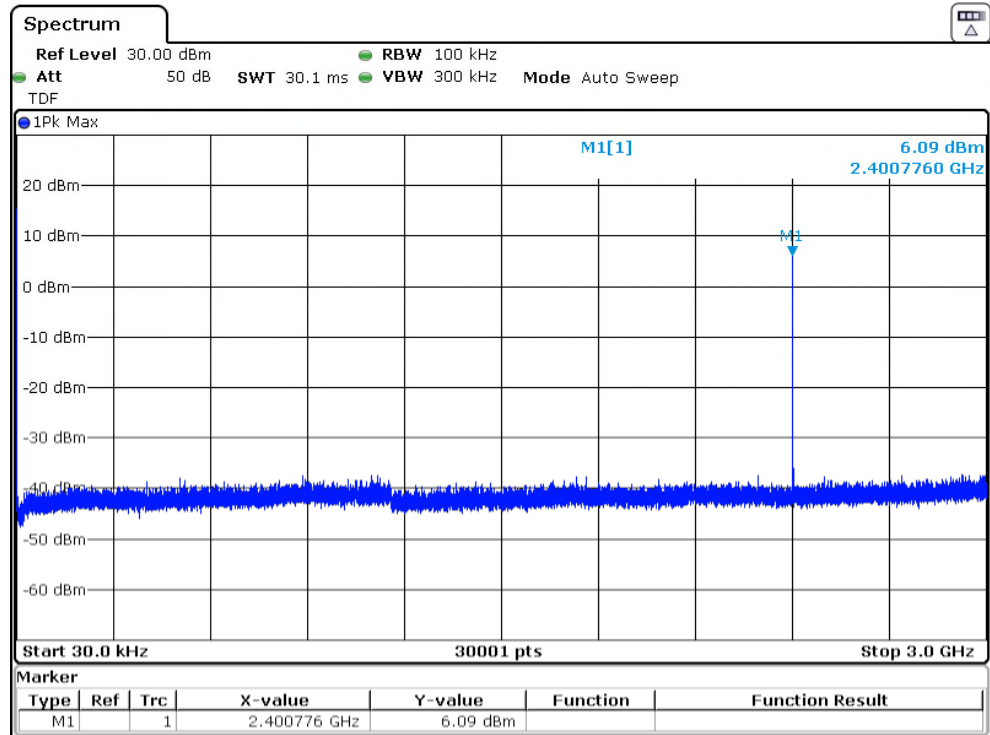
PoE supply, Right antenna, Tx frequency: 2481.6MHz



Date: 13.AUG.2024 15:36:15

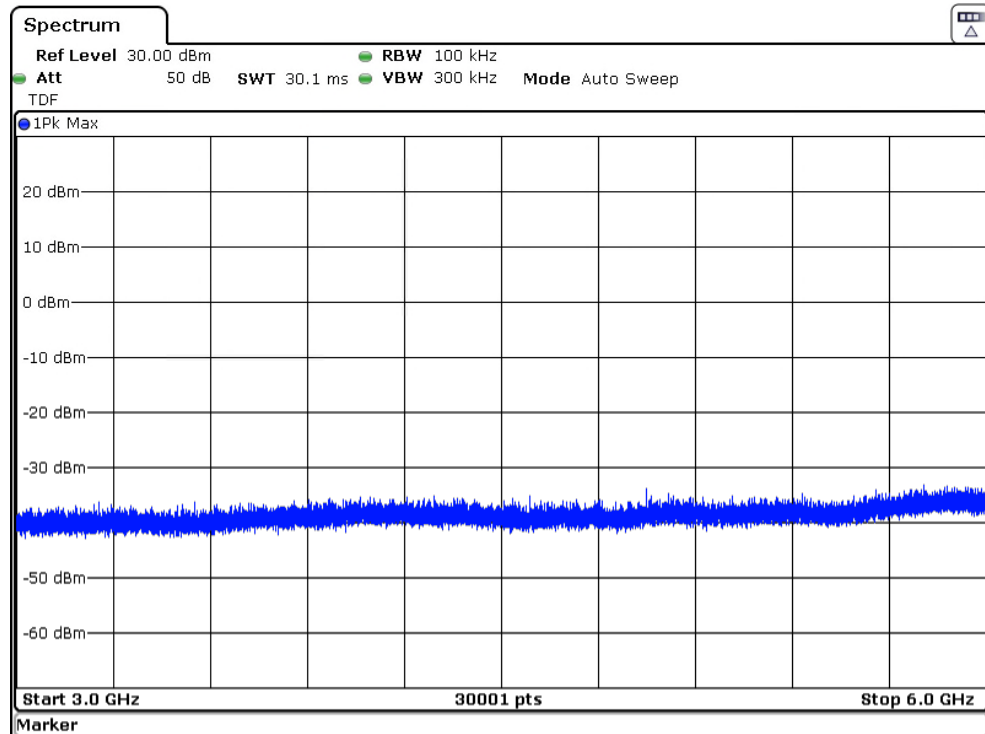
Worse Case

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 30M~3GHz



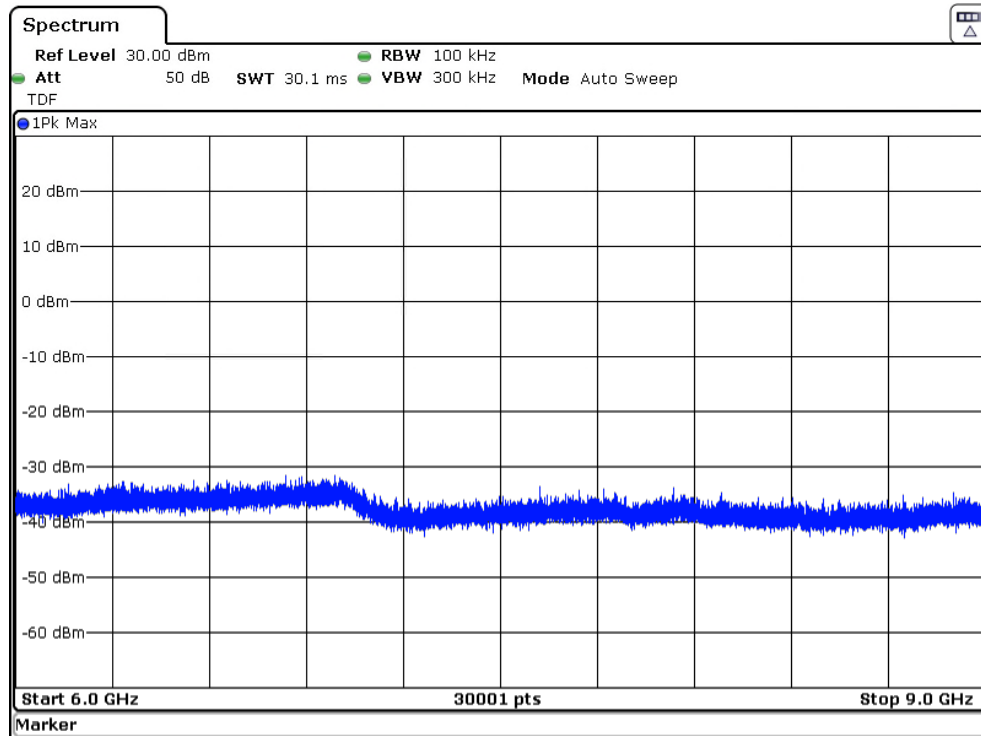
Date: 14.AUG.2024 13:43:59

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 3G~6GHz



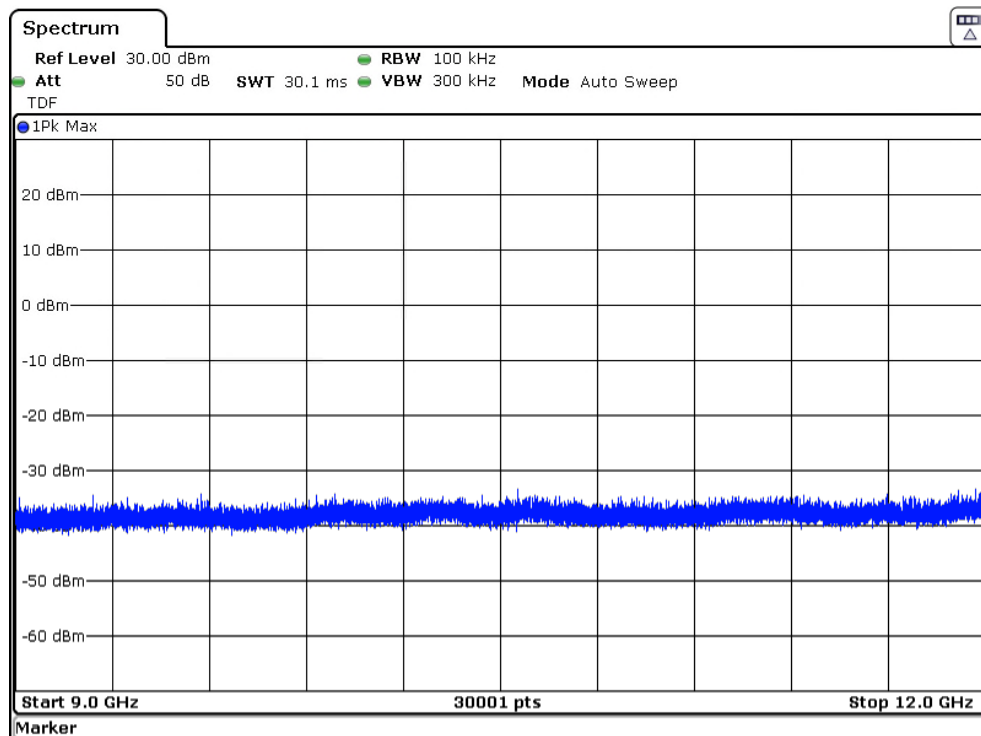
Date: 14.AUG.2024 13:44:20

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 6G~9GHz



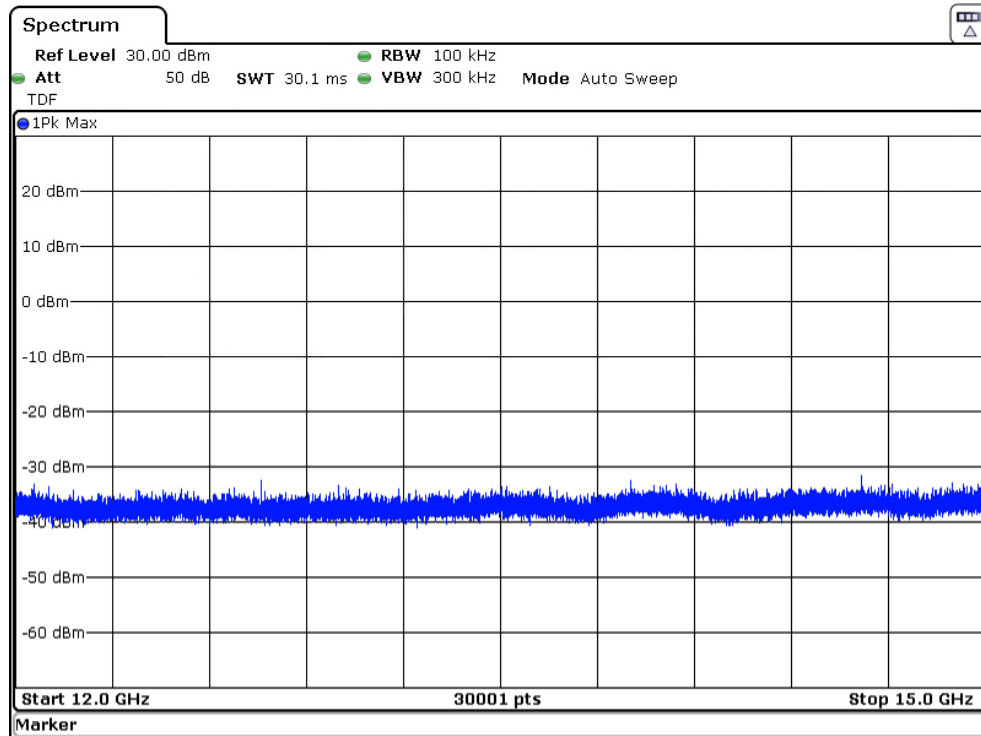
Date: 14.AUG.2024 13:44:48

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 9G~12GHz



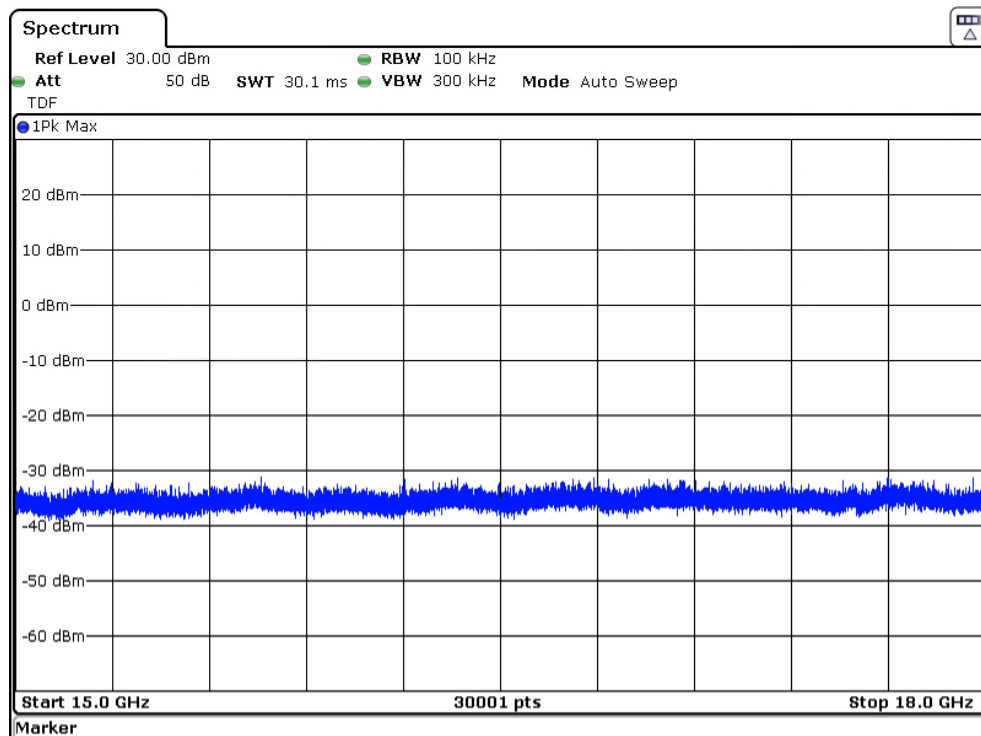
Date: 14.AUG.2024 13:45:32

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 12G~15GHz



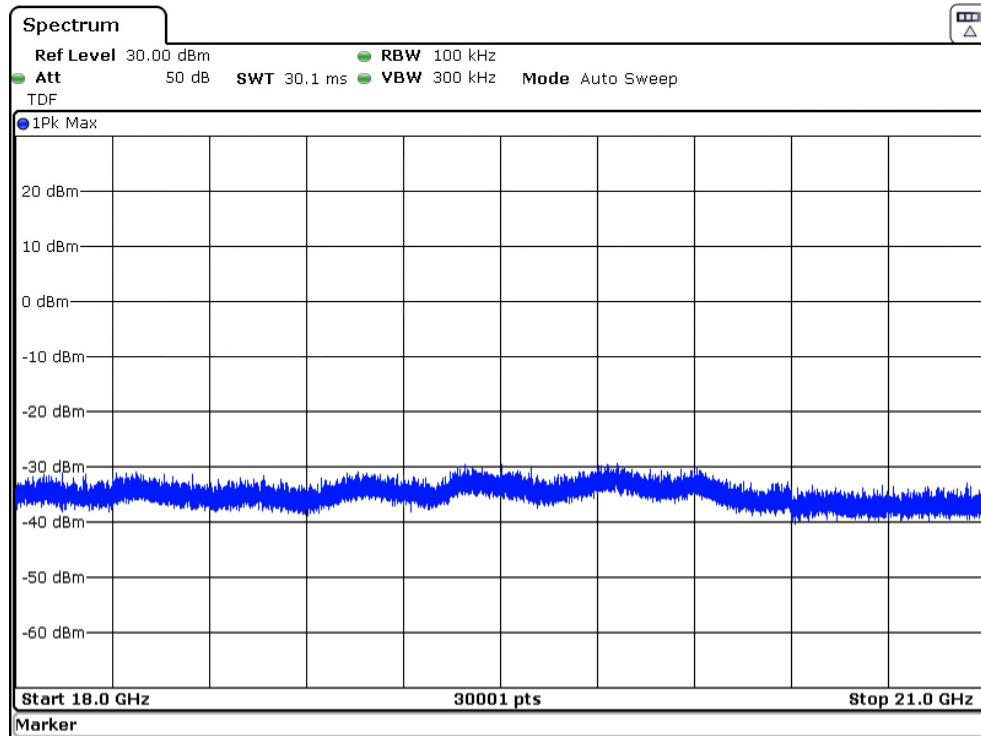
Date: 14.AUG.2024 13:45:57

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 15G~18GHz



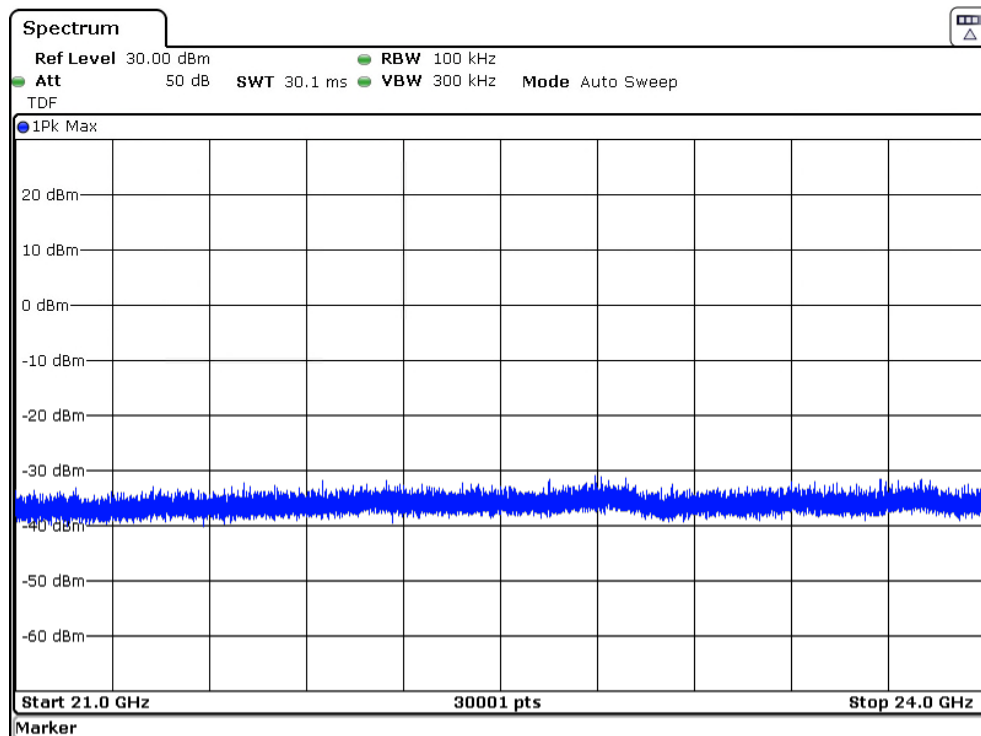
Date: 14.AUG.2024 13:46:29

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 18G~21GHz



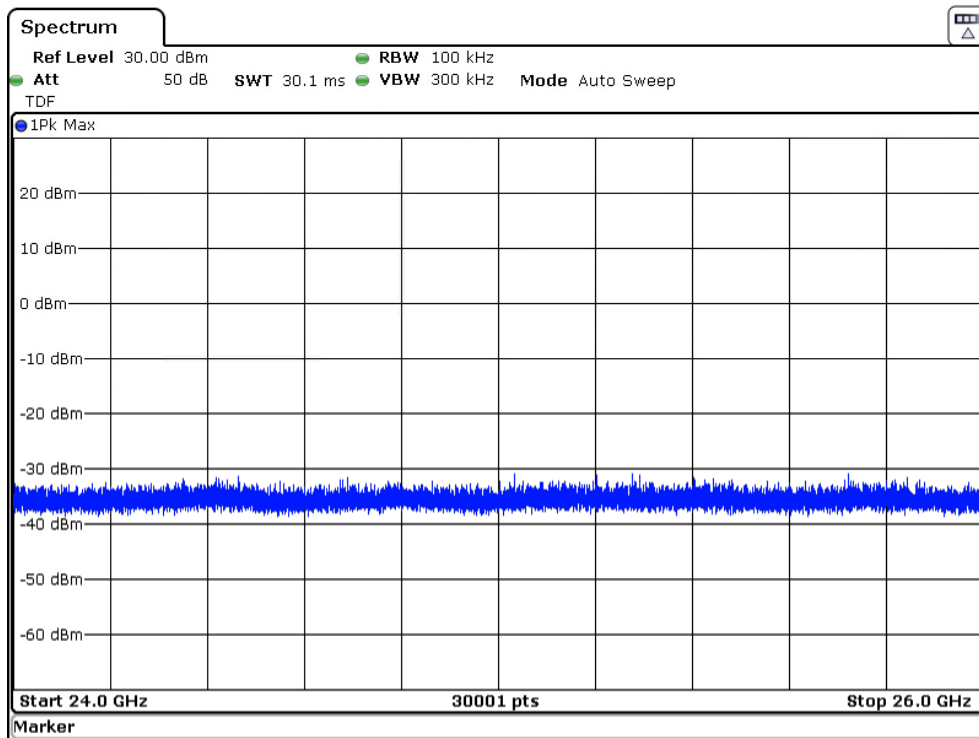
Date: 14.AUG.2024 13:47:00

PoE supply, Left antenna, TX Frequency 2400.8MHz _ 21G~24GHz



Date: 14.AUG.2024 13:47:20

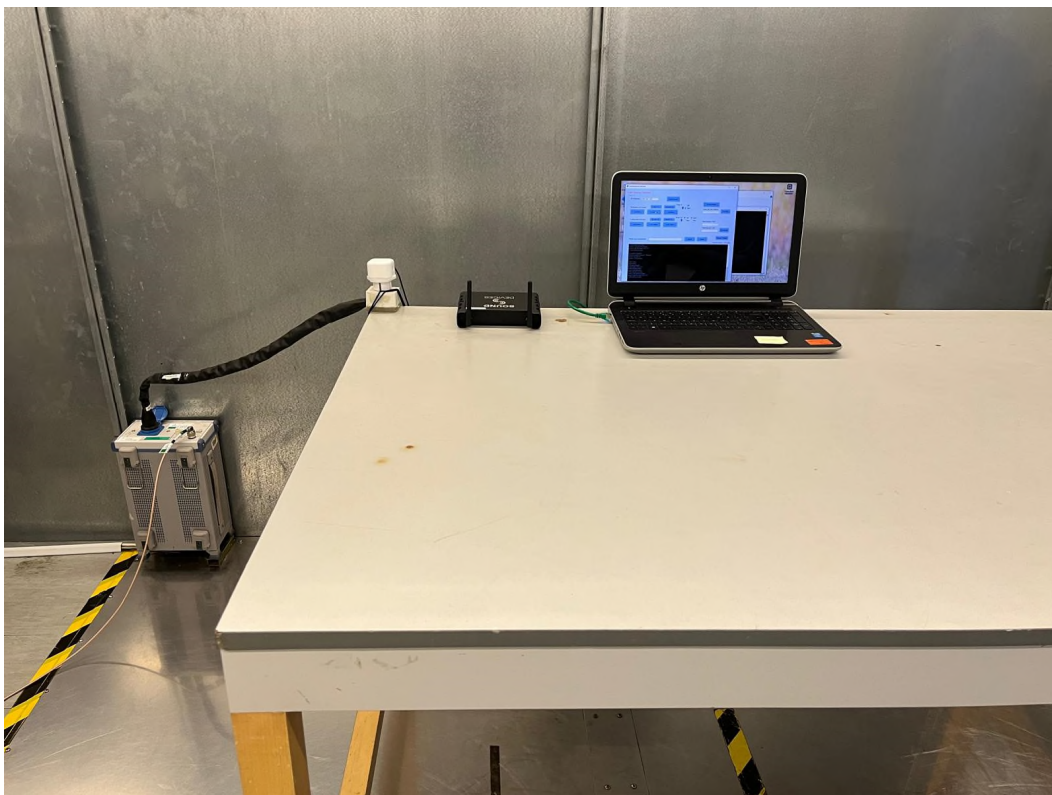
PoE supply, Left antenna, TX Frequency 2400.8MHz _ 24G~26GHz



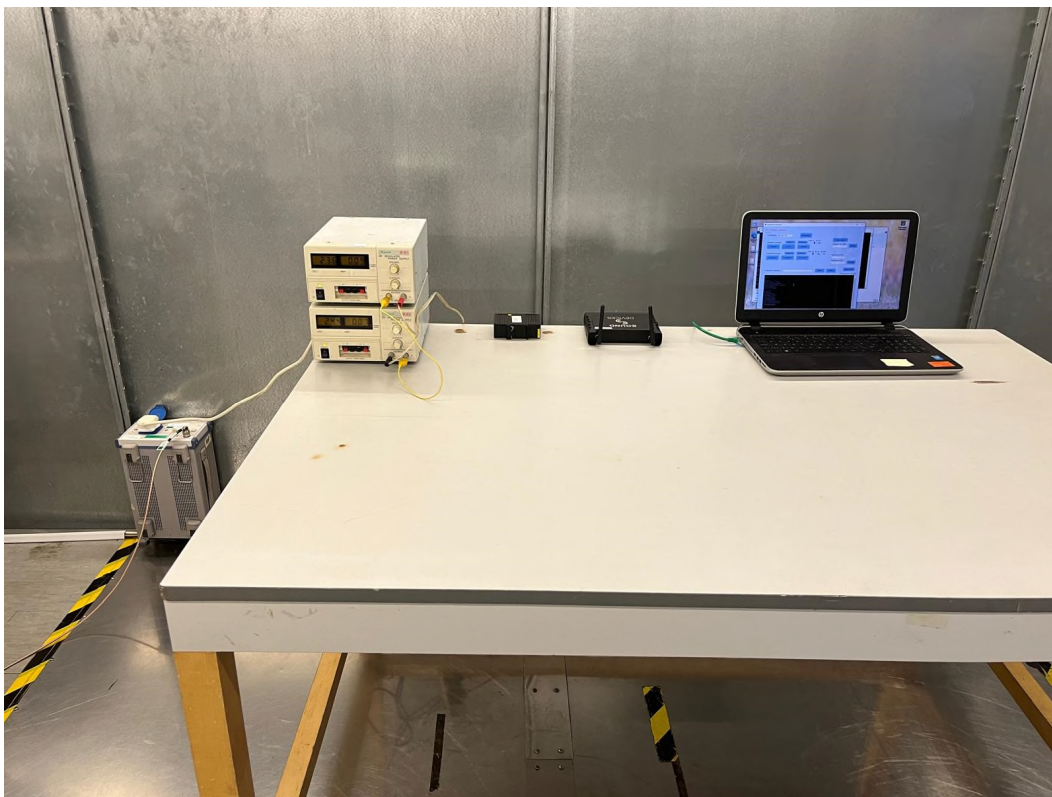
Date: 14.AUG.2024 13:47:40

Appendix 2

Test Setup Photos



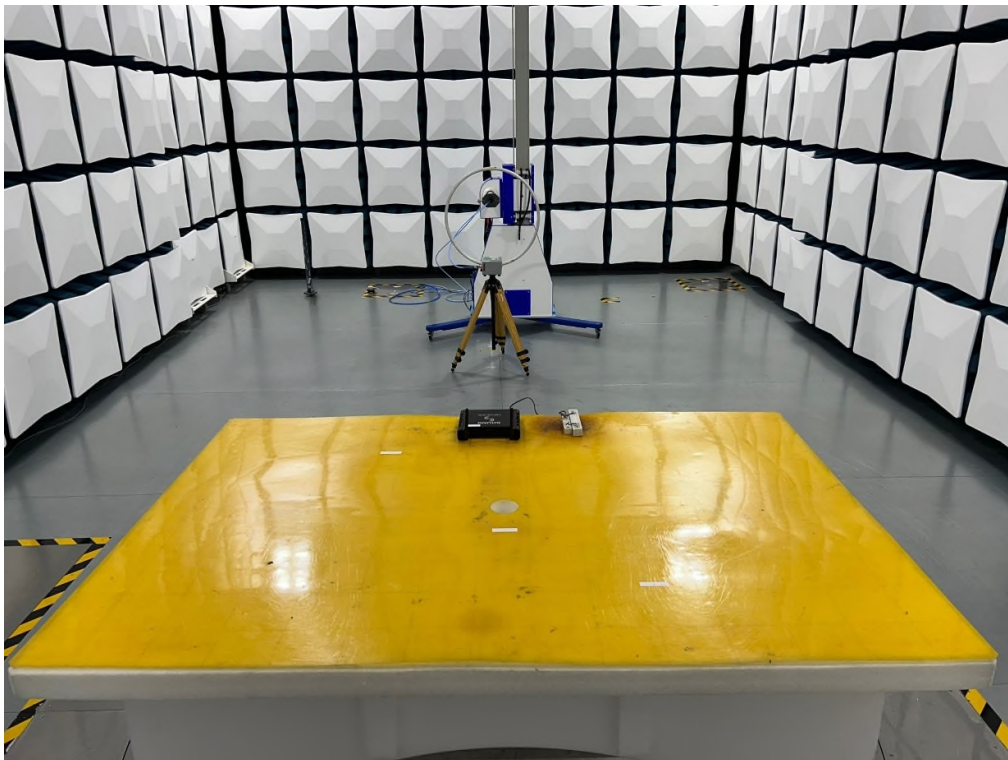
Set-up for Conducted Emission on AC Mains (USB-C supply)



Set-up for Conducted Emission on AC Mains (PoE supply)



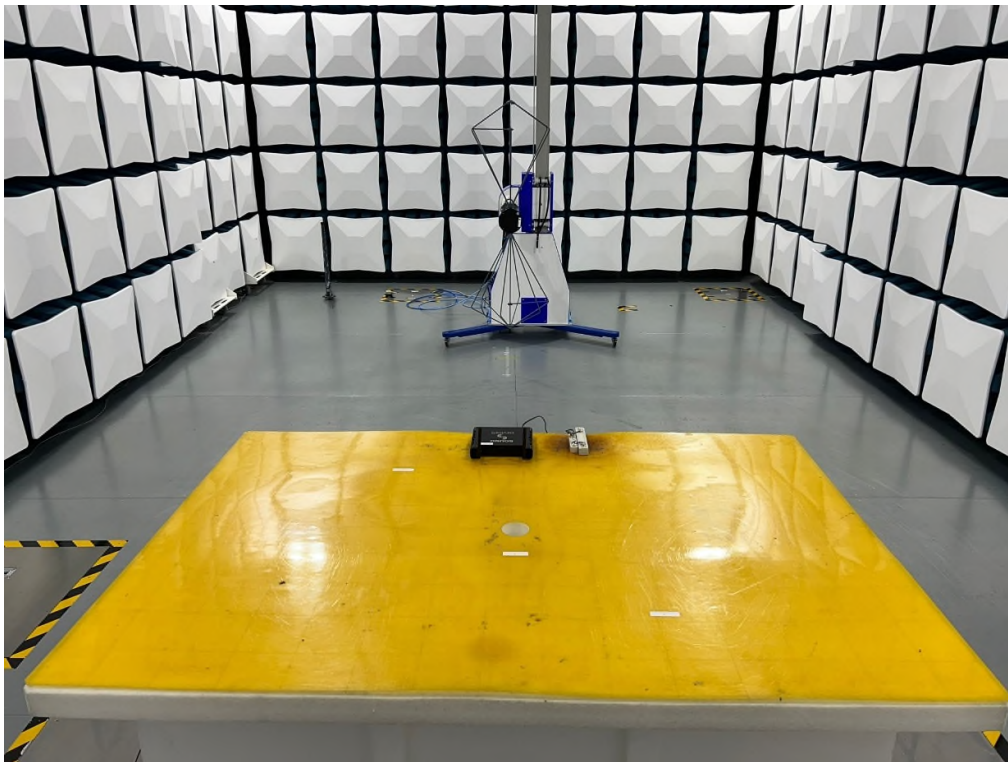
Set up for Radiated Emission Below 30MHz (USB-C supply)



Set up for Radiated Emission Below 30MHz (PoE supply)



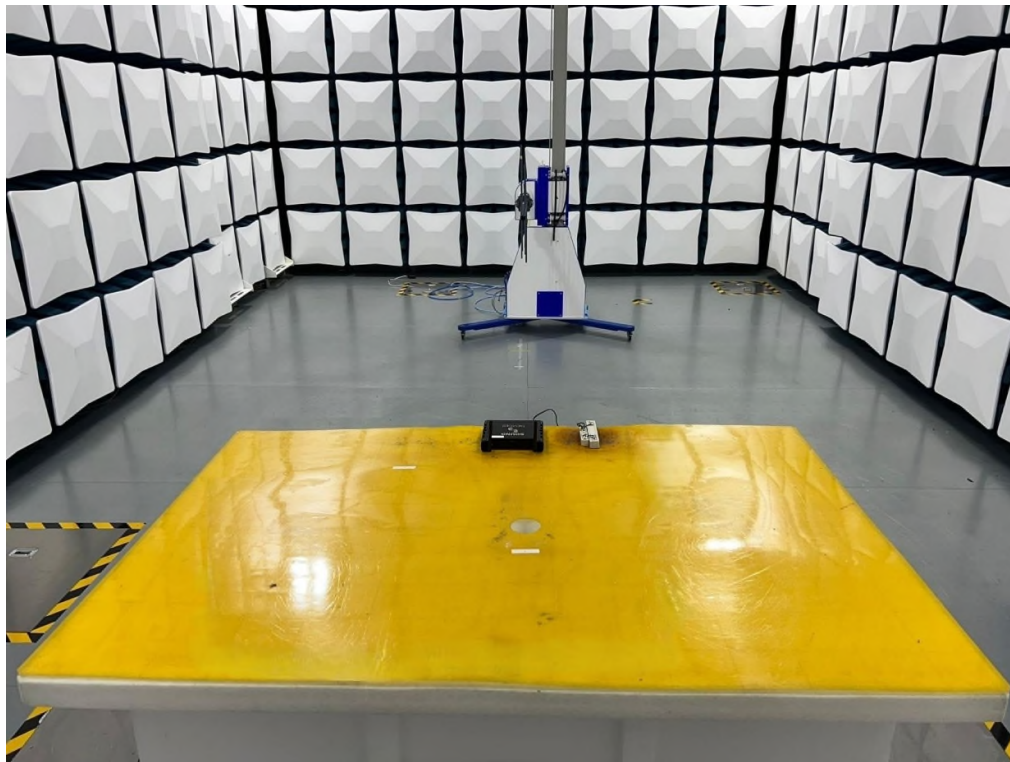
Set up for Radiated Emission 30M-200MHz (USB-C supply)



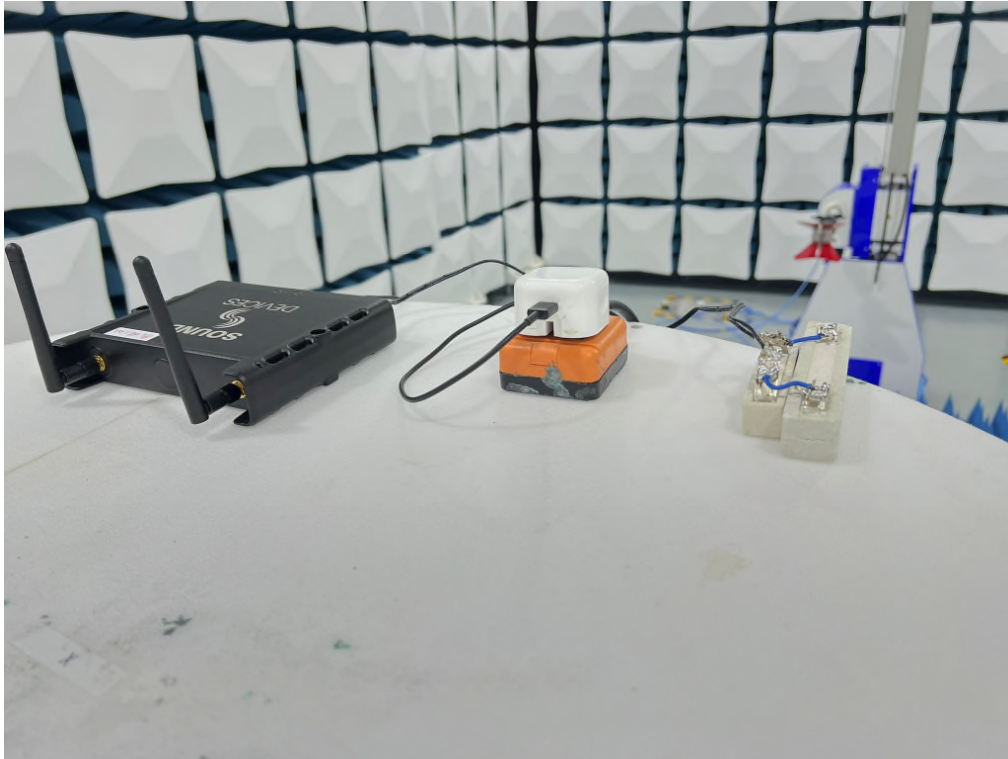
Set up for Radiated Emission 30M-200MHz (PoE supply)



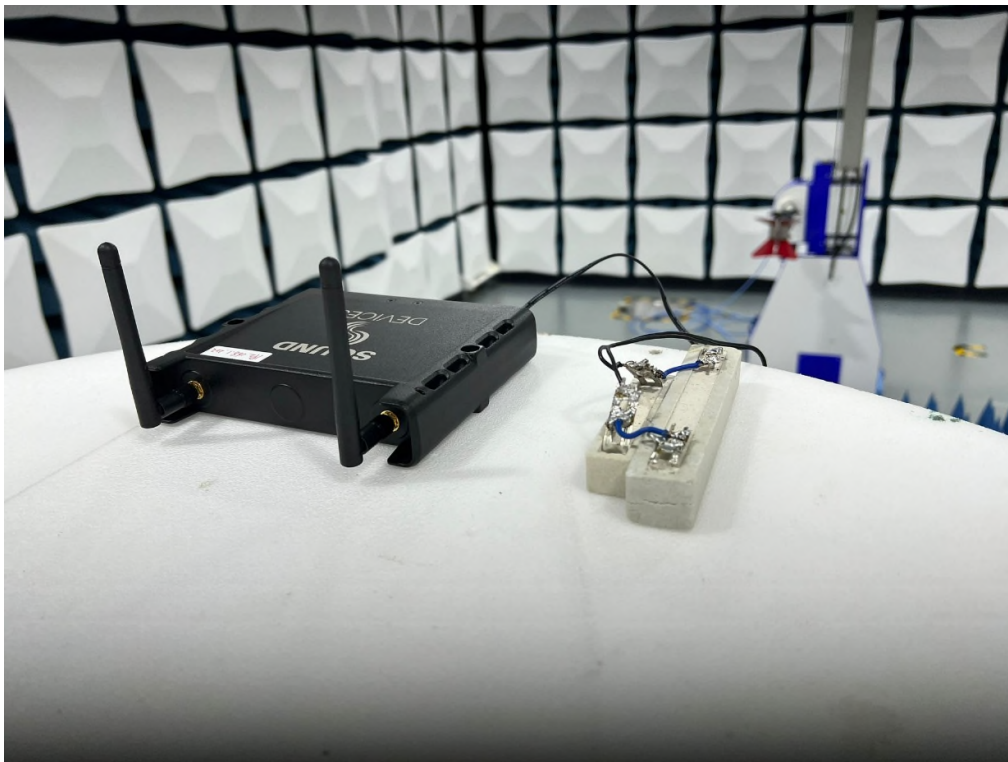
Set up for Radiated Emission Below 200M~1GHz (USB-C supply)



Set up for Radiated Emission Below 200M~1GHz (PoE supply)



Set up for Radiated Emission Above 1GHz (USB-C supply)



Set up for Radiated Emission Above 1GHz (PoE supply)

Appendix 3

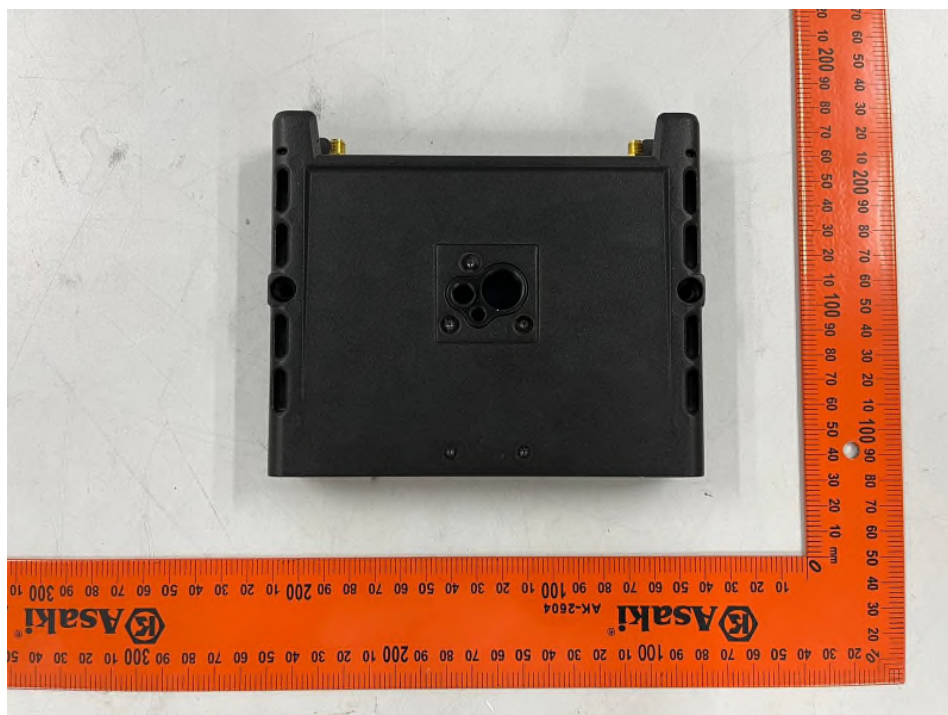
EUT External Photos

FCC ID: 2AKLX-28450

IC ID: 22225-28450



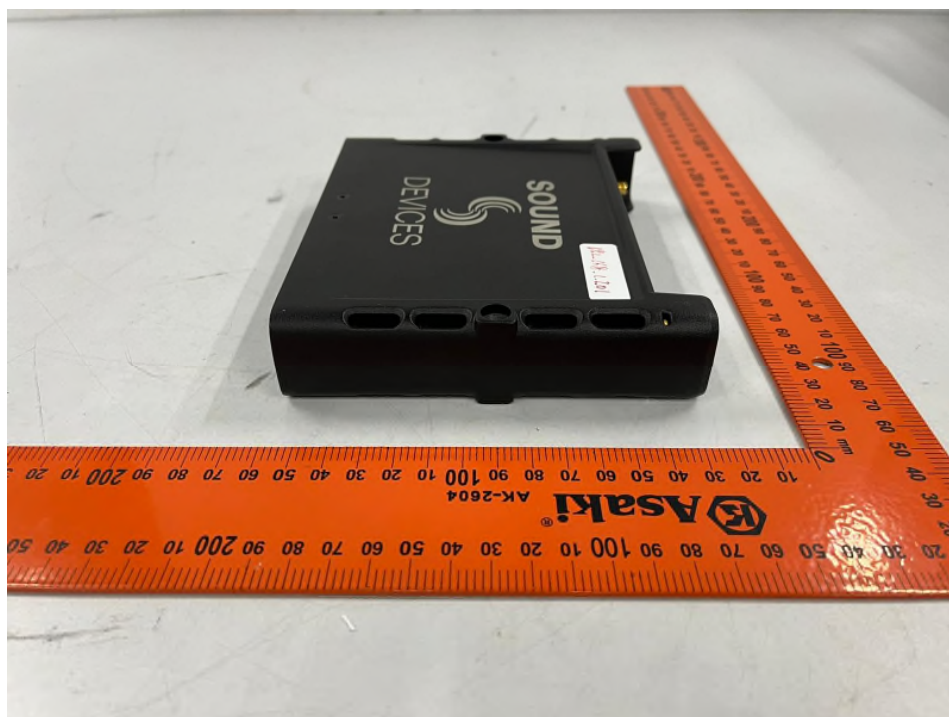
External View



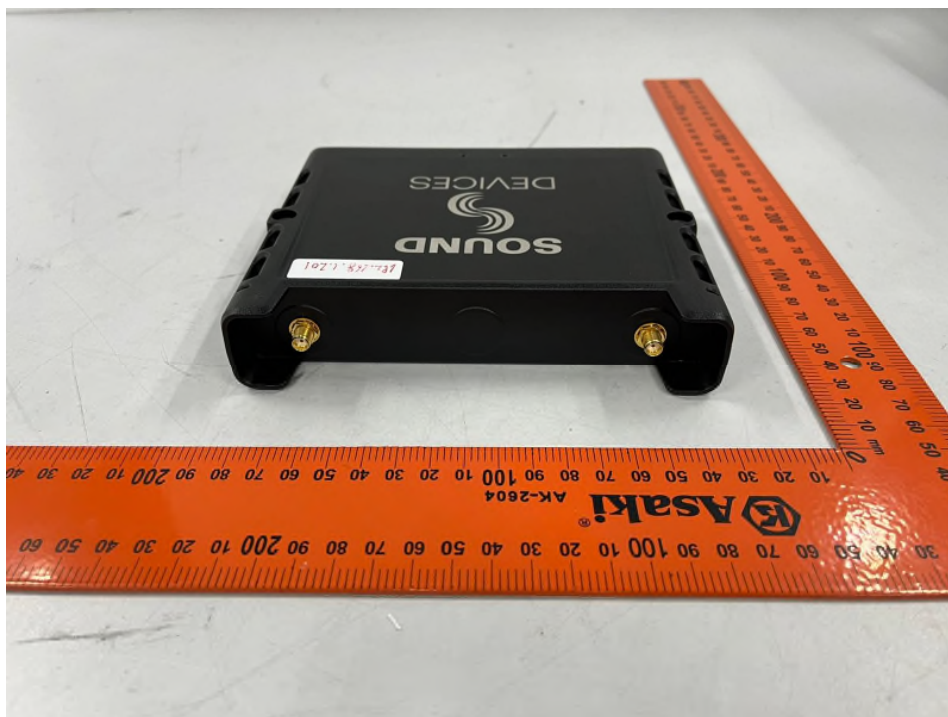
External View



External View



External View



External View



External View

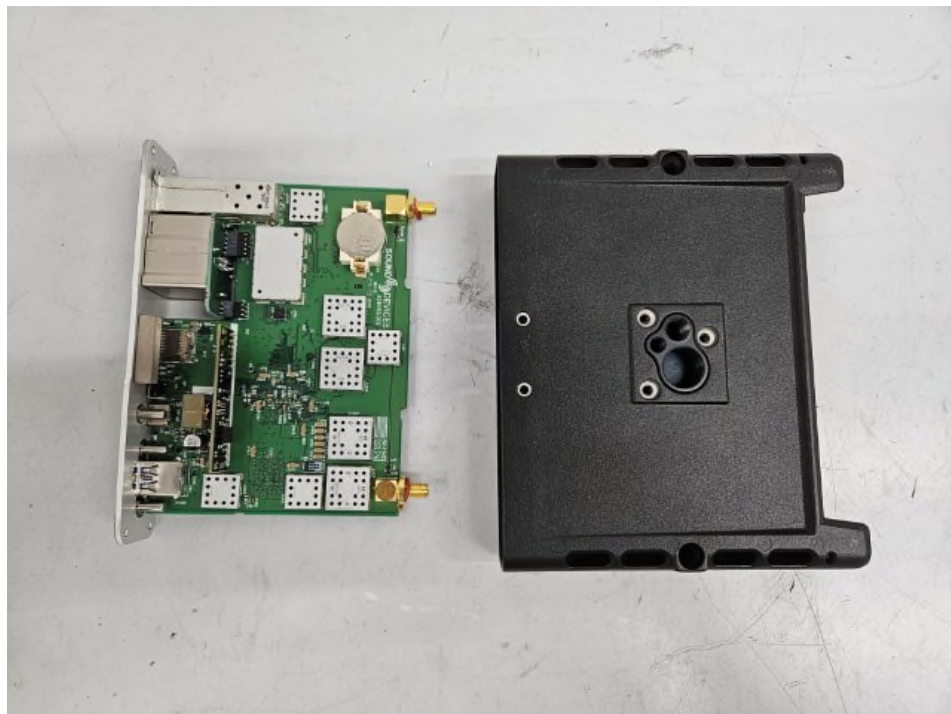
Appendix 4

EUT Internal Photos

FCC ID: 2AKLX-28450
IC ID: 22225-28450



Internal View



Internal View



Internal View



Internal View

Appendix 5

RF Exposure Information

FCC ID: 2AKLX-28450
IC ID: 22225-28450

Maximum transmitter power

USB-C supply - Left antenna			
Frequency (MHz)	Maximum peak output power (dBm)	Antenna gain (dBi)	EIRP (mW)
2400.8	7.37	2.0	8.650
2440.8	7.10	2.0	8.128
2481.6	7.39	2.0	8.690
USB-C supply - Right antenna			
Frequency (MHz)	Maximum peak output power (dBm)	Antenna gain (dBi)	EIRP (mW)
2400.8	6.05	2.0	6.383
2440.8	5.56	2.0	5.702
2481.6	5.97	2.0	6.266
PoE supply - Left antenna			
Frequency (MHz)	Maximum peak output power (dBm)	Antenna gain (dBi)	EIRP (mW)
2400.8	6.19	2.0	6.592
2440.8	5.25	2.0	5.309
2481.6	6.09	2.0	6.442
PoE supply - Right antenna			
Frequency (MHz)	Maximum peak output power (dBm)	Antenna gain (dBi)	EIRP (mW)
2400.8	6.63	2.0	7.295
2440.8	5.68	2.0	5.861
2481.6	6.50	2.0	7.080

According to the manufacturer's installation instruction, the EUT operates in standalone mobile exposure conditions where the minimum test separation distance is 20 cm between the antenna and radiating structures of the device and nearby persons.

For FCC

For Maximum Permissible Exposure (MPE) evaluation, the maximum power density at 20 cm from this mobile transmitter shall be less than the General Population / Uncontrolled MPE limit in OET Bulletin 65 and meet the requirement listed in KDB 447498.

Evaluation:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

The maximum EIRP is 8.650 mW.

The maximum power density at 20 cm = $8.650 \text{ mW} / 4\pi r^2$

= $0.001721 \text{ mWcm}^{-2} < 1.0 \text{ mWcm}^{-2}$

Conclusion:

In the frequency range of 1,500 - 100,000MHz, the MPE limit is 1.0 mWcm^{-2} for general population and uncontrolled exposure. As the measured power density at 20 cm from the transmitter is lower than the MPE limit, the compliance to the MPE limit can be ensured by indicating the minimum 20 cm separation between the transmitter's radiating structures and body of the user or nearby persons.

For ISED:

According to section 6.6 of RSS-102 Issue 6, RF exposure evaluation is not required if the following condition is met:

“At or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;”

Therefore, the threshold is $1.31 \times 10^{-2} 2440.8^{0.6834}$ W = 2.706 W

Conclusion:

The maximum e.i.r.p of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement without SAR evaluation.