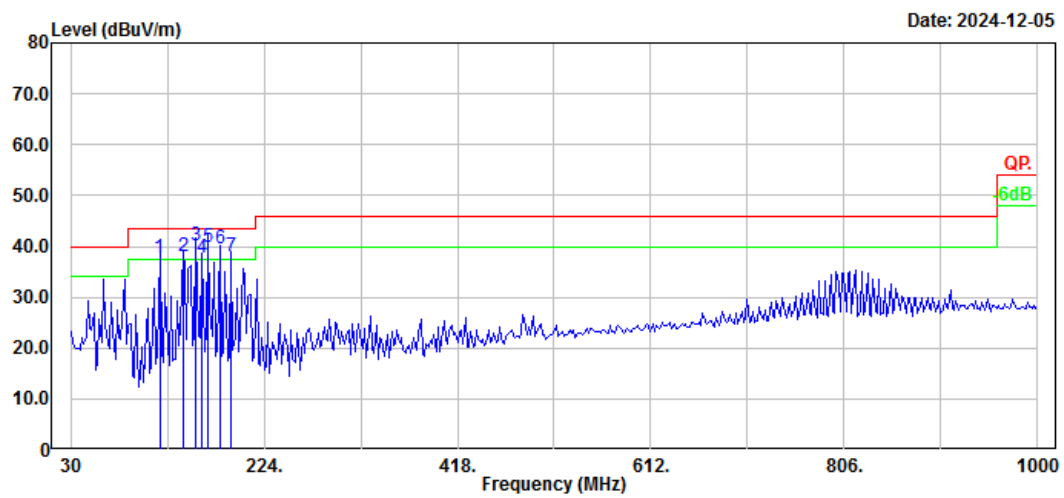


Project No.: 2402A47729E-RF
Polarization: Vertical
Test Mode: Transmitting

Serial No.: 2VAY-2
Tester: Leeson Xiang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	119.24	47.70	-10.05	37.65	43.50	5.85	QP
2	142.52	48.60	-10.61	37.99	43.50	5.51	QP
3	156.10	51.20	-11.11	40.09	43.50	3.41	QP
4	161.92	49.00	-11.27	37.73	43.50	5.77	QP
5	167.74	51.60	-11.64	39.96	43.50	3.54	QP
6	179.38	51.80	-12.32	39.48	43.50	4.02	QP
7	191.02	50.20	-12.06	38.14	43.50	5.36	QP

2) 1-25GHz:

Serial Number:	2VAY-2	Test Date:	2024/12/5
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Nat Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.2	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101.8
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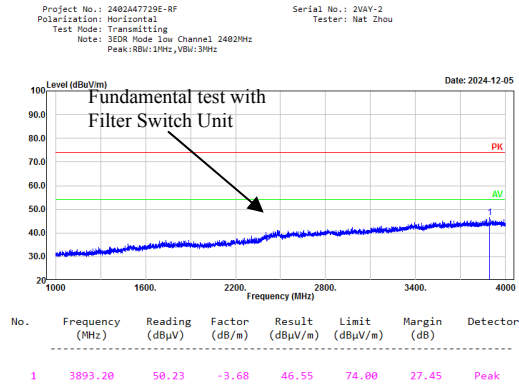
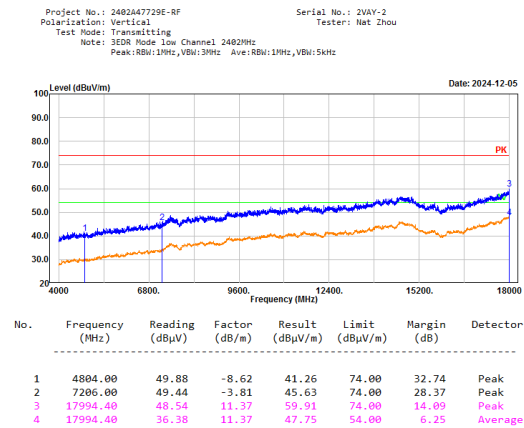
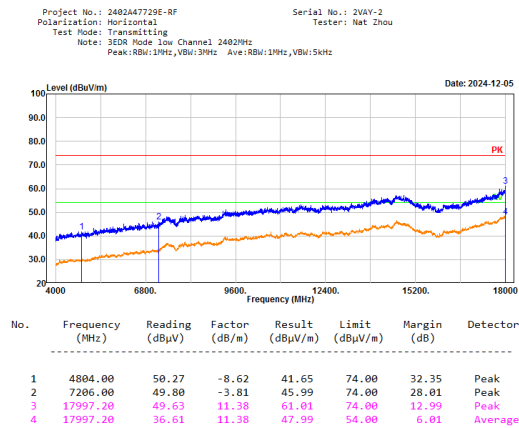
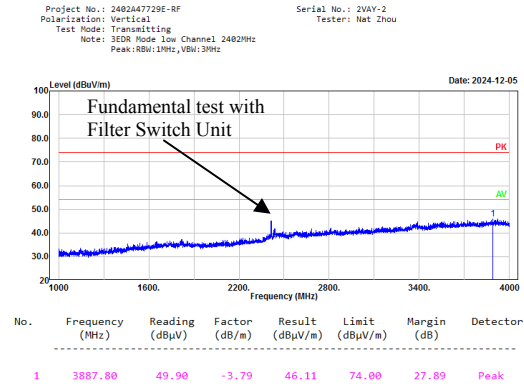
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2024/11/17	2025/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/14
AH	Preamplifier	PAM-1840VH	191	2024/9/5	2025/9/4
R&S	Spectrum Analyzer	FSV40	101944	2024/9/6	2025/9/5
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FCU	DC79902 & DC79905	2024/8/27	2025/8/26

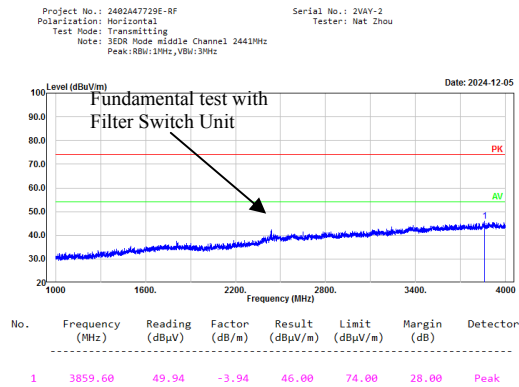
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Plots for 1GHz~18GHz:

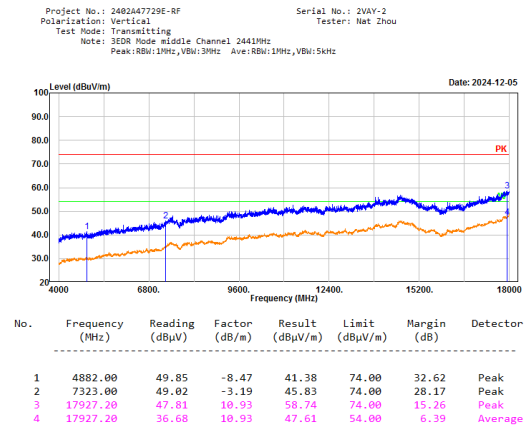
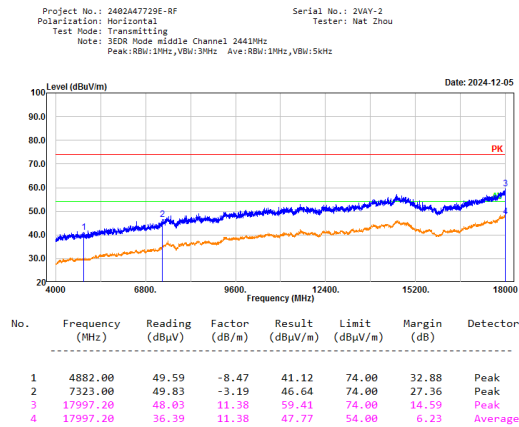
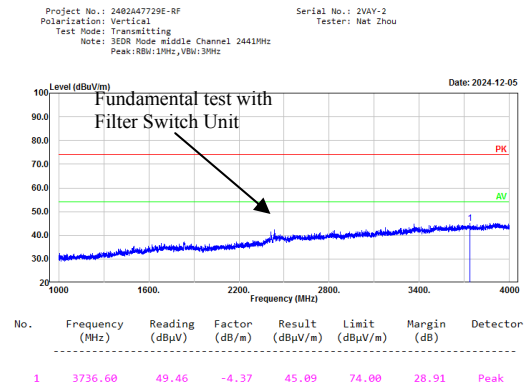
Note: The maximum output power mode: 3EDR (3DH1) Mode was tested.

3EDR Low Channel, 2402MHz, Horizontal**3EDR Low Channel, 2402MHz, Vertical**

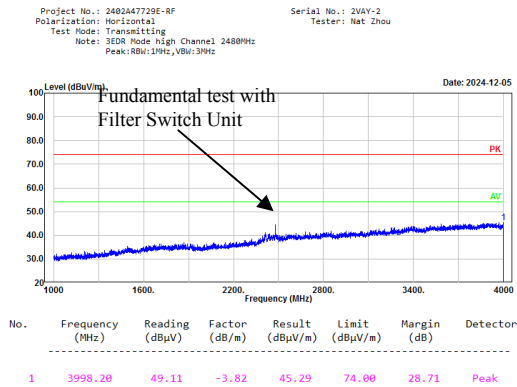
3EDR Middle Channel, 2441MHz, Horizontal



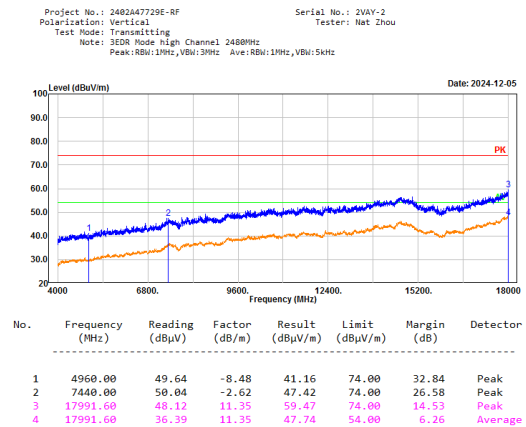
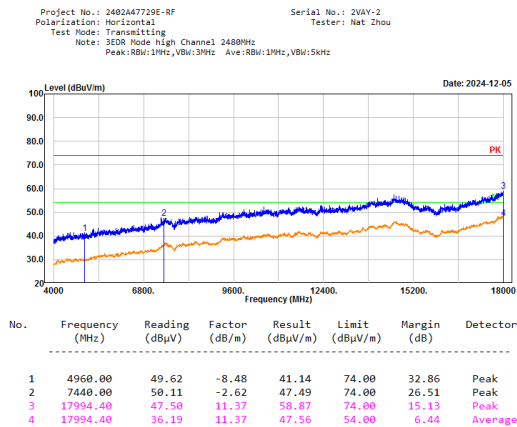
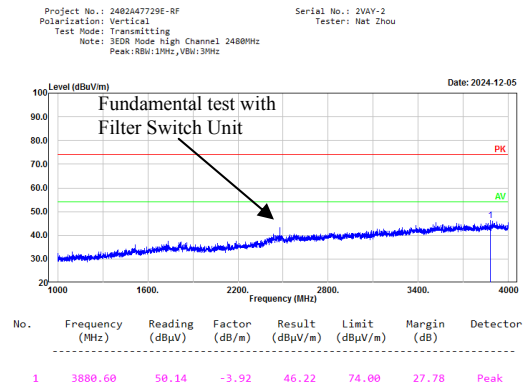
3EDR Middle Channel, 2441MHz, Vertical



3EDR High Channel, 2480MHz, Horizontal

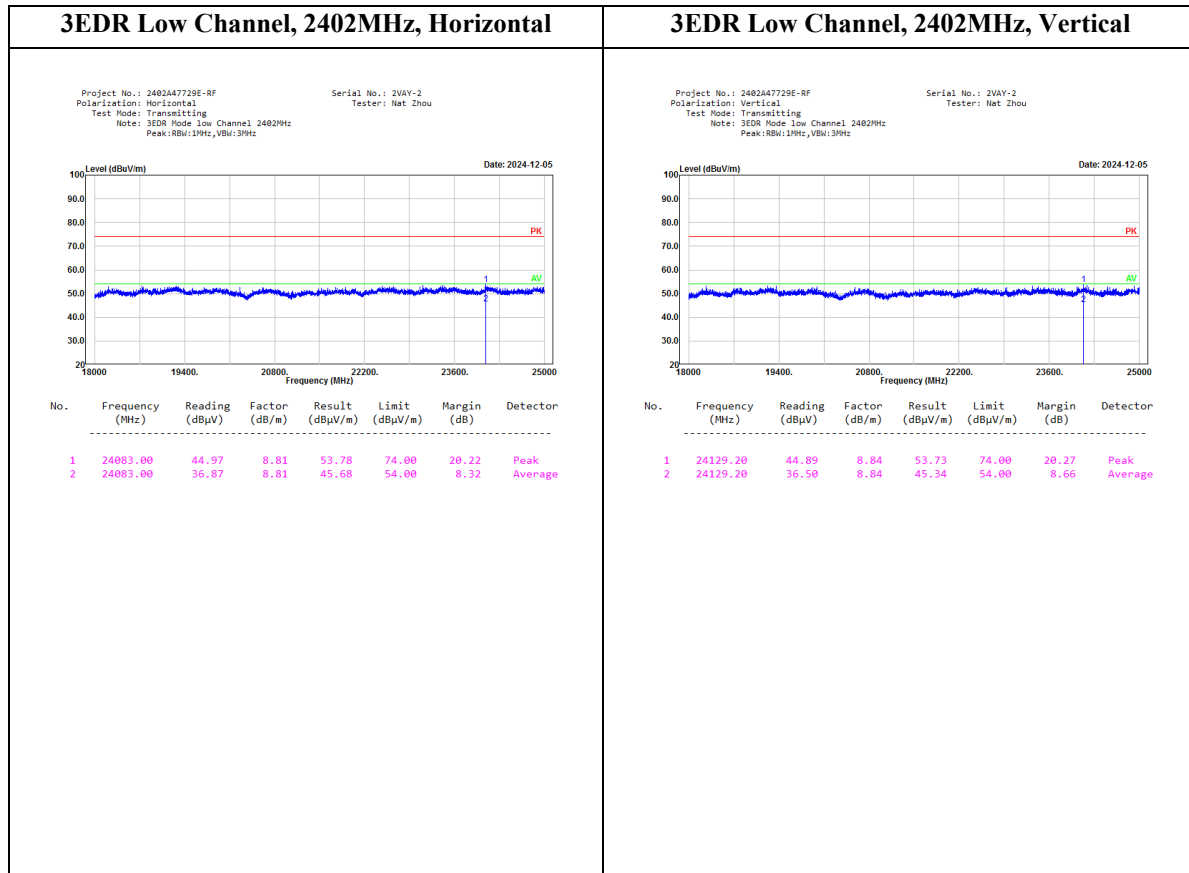


3EDR High Channel, 2480MHz, Vertical



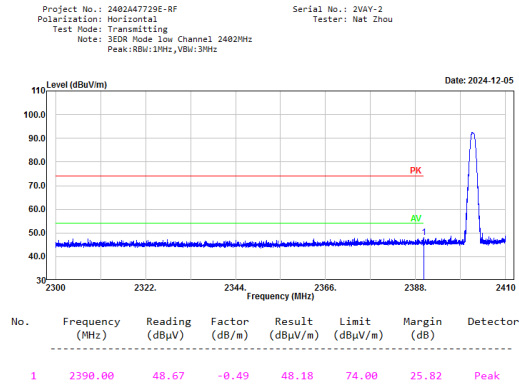
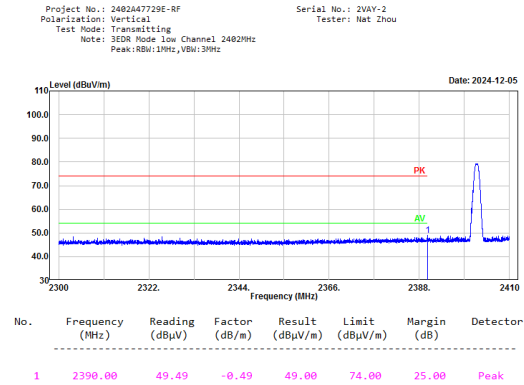
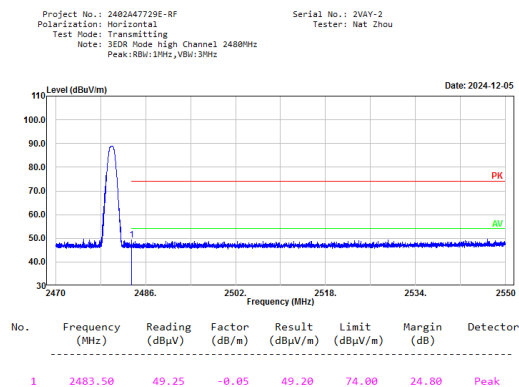
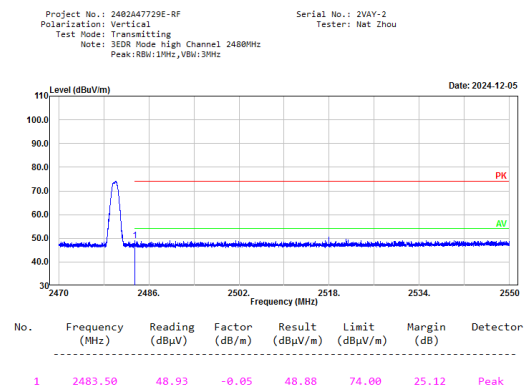
Test plots for 18GHz~25GHz:

Note: The maximum output power mode and channel: 3EDR (3DH1) mode Low Channel was tested.



Test Plots for Bandedge:

Note: The maximum output power mode: 3EDR (3DH1) Mode was tested.

3EDR, Low Channel, Bandedge, Horizontal**3EDR, Low Channel, Bandedge, Vertical****3EDR, High Channel, Bandedge, Horizontal****3EDR, High Channel, Bandedge, Vertical**

5.3 20 dB Emission Bandwidth

Test Information:

Serial No.:	2VAY-1	Test Date:	2024/12/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	24.1	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

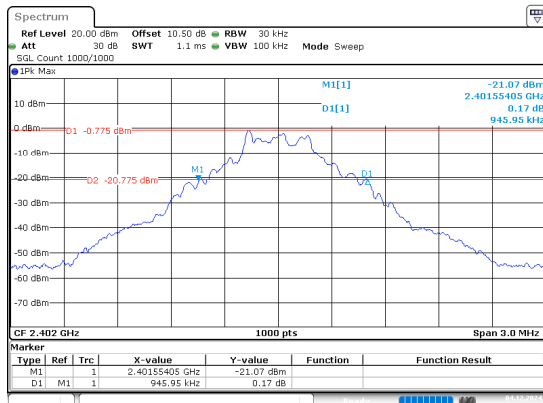
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

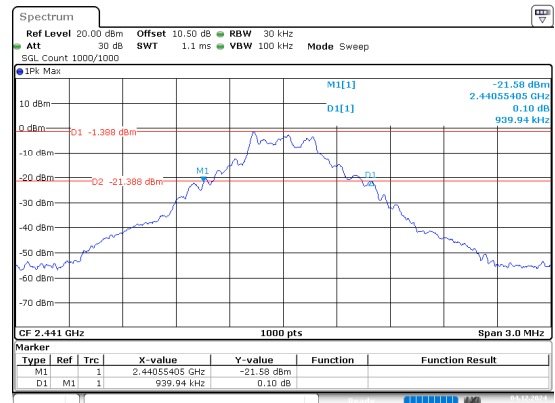
Test Data:

Mode	Channel	Result (MHz)
DH1	Low	0.946
	Middle	0.940
	High	0.886
2DH1	Low	1.264
	Middle	1.264
	High	1.267
3DH1	Low	1.243
	Middle	1.255
	High	1.258

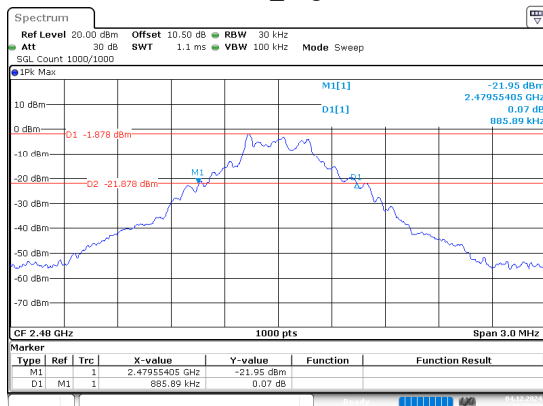
DH1_Low



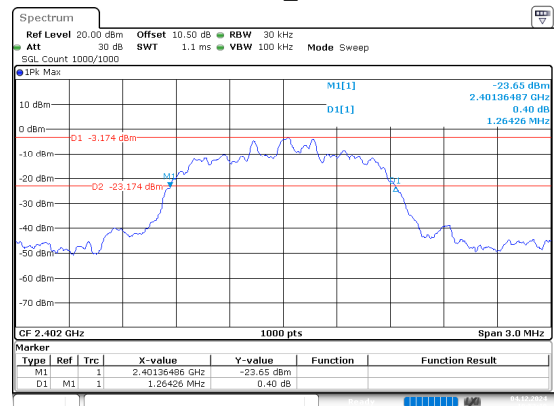
DH1_Middle



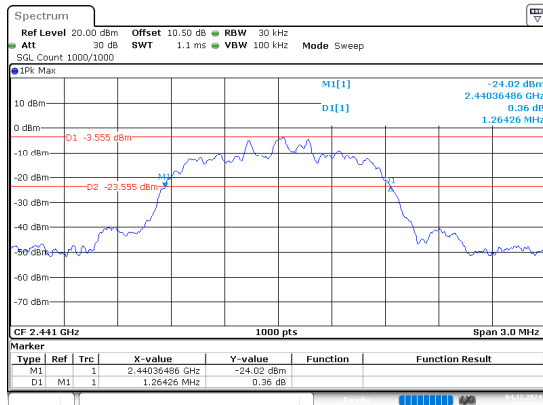
DH1_High



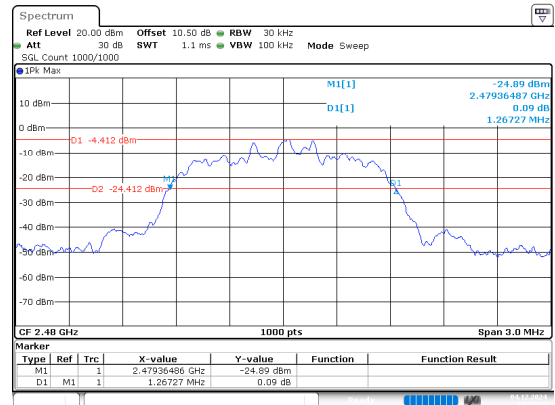
2DH1_Low



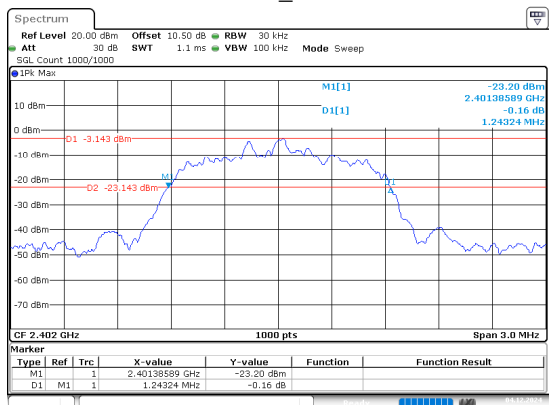
2DH1_Middle



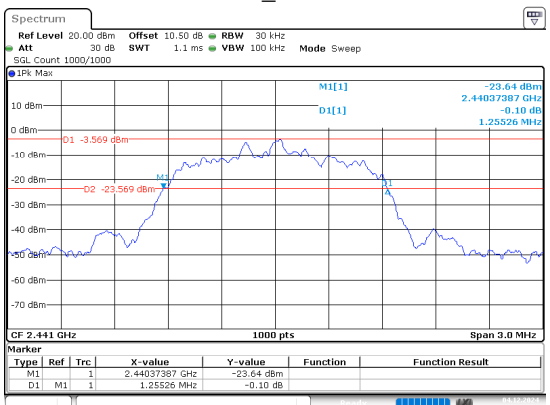
2DH1_High



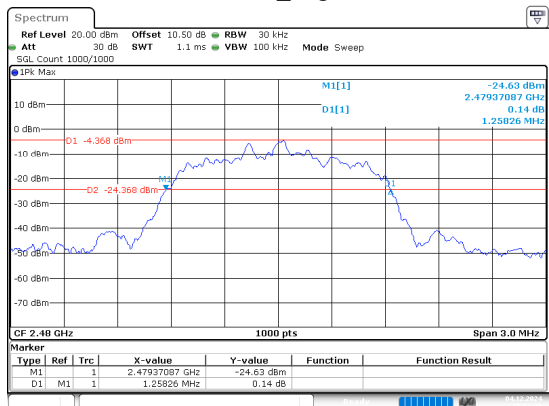
3DH1_Low



3DH1_Middle



3DH1_High



5.4 Channel Separation

Test Information:

Serial No.:	2VAY-1	Test Date:	2024/12/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.1	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

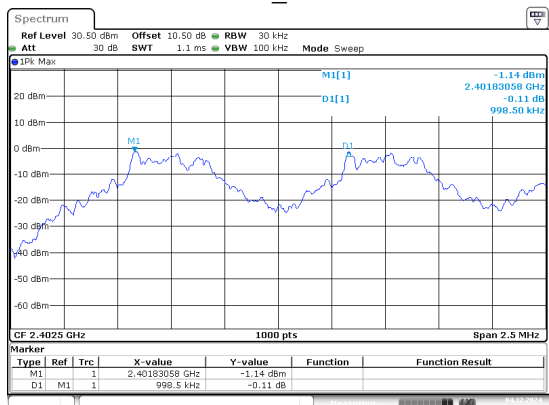
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
DH1	Low	0.998	0.845	Pass
	Middle	1.006	0.845	Pass
	High	1.001	0.845	Pass

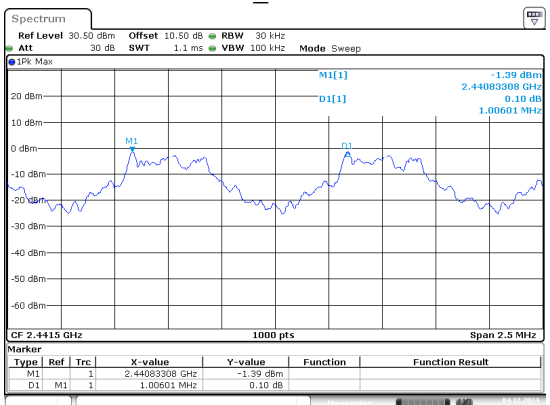
Note:
1. Only BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK, 8DPSK) has the exact same channel plan.
2. The limit is maximum 20dB bandwidth*2/3.

DH1_Low



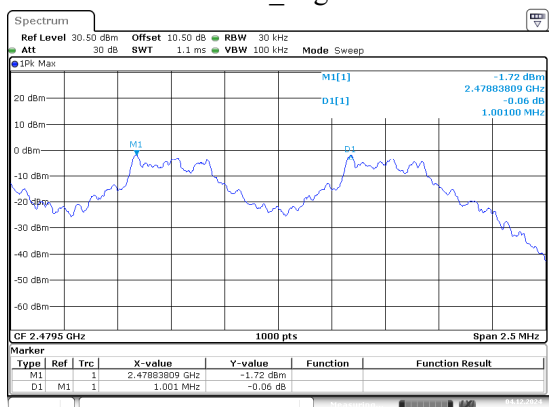
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:14:55

DH1_Middle



ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:07:32

DH1_High



ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:08:18

5.5 Number of Hopping Frequency

Test Information:

Serial No.:	2VAY-1	Test Date:	2024/12/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.1	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

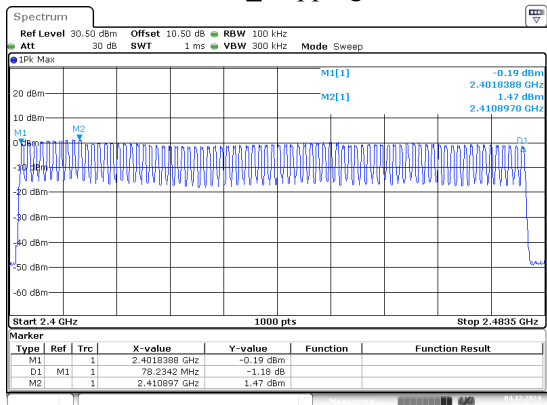
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

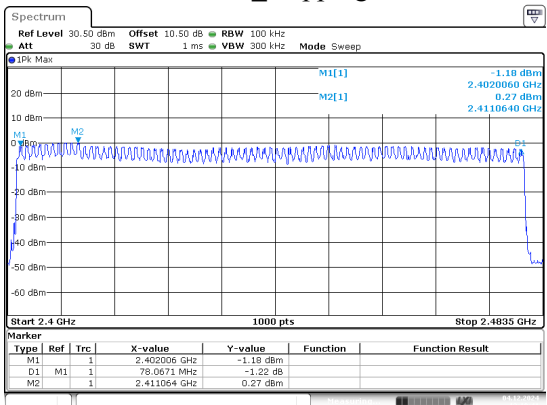
Test Data:

Mode	Channel	Result	Limit	Verdict
DH1	Hopping	79	15	Pass
2DH1	Hopping	79	15	Pass
3DH1	Hopping	79	15	Pass

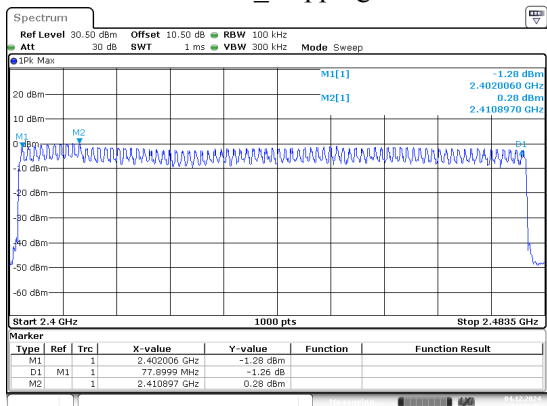
DH1_Hopping



2DH1_Hopping



3DH1_Hopping



5.6 Time of Occupancy (Dwell Time)

Test Information:

Serial No.:	2VAY-1	Test Date:	2024/12/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.1	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

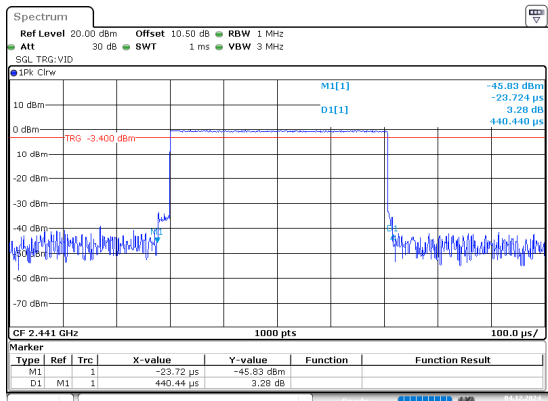
Test Data:

Mode	Channel	Pulse width (ms)	Dwell time (s)	Limit (s)	Verdict
DH1	Hopping	0.440	0.141	0.400	Pass
DH3	Hopping	1.703	0.272	0.400	Pass
DH5	Hopping	2.958	0.316	0.400	Pass
2DH1	Hopping	0.433	0.139	0.400	Pass
2DH3	Hopping	1.691	0.271	0.400	Pass
2DH5	Hopping	2.948	0.314	0.400	Pass
3DH1	Hopping	0.431	0.138	0.400	Pass
3DH3	Hopping	1.685	0.270	0.400	Pass
3DH5	Hopping	2.948	0.314	0.400	Pass

Note:

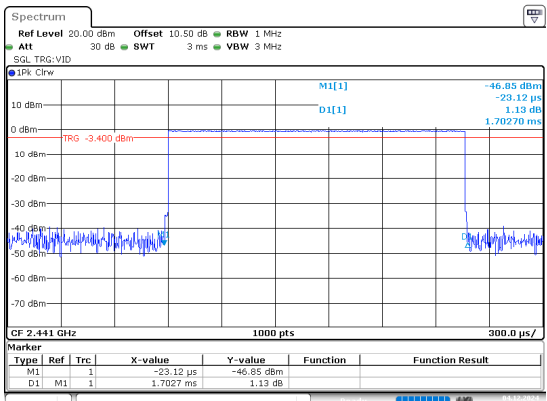
DH1:Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s
DH3:Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s
DH5:Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s
2DH1: Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s
2DH3: Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s
2DH5: Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s
3DH1: Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s
3DH3: Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s
3DH5: Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s

DH1_Hopping



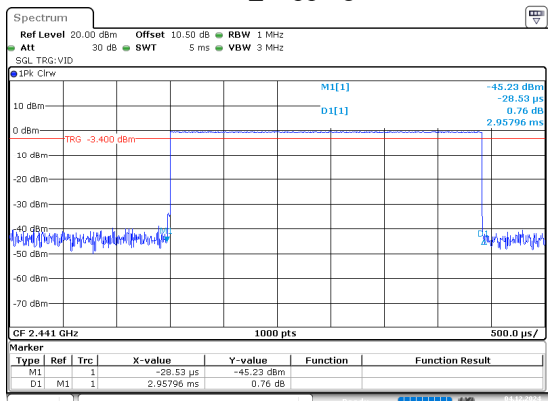
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:23:53

DH3_Hopping



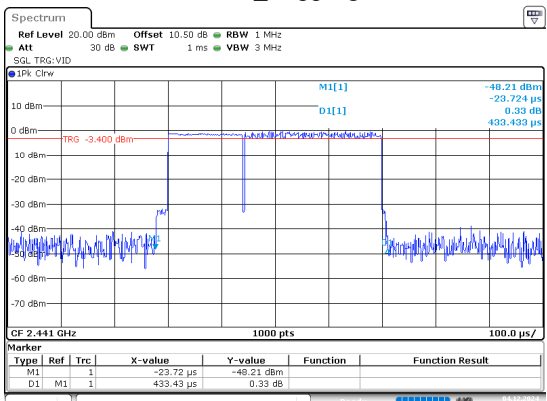
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:24:26

DH5_Hopping



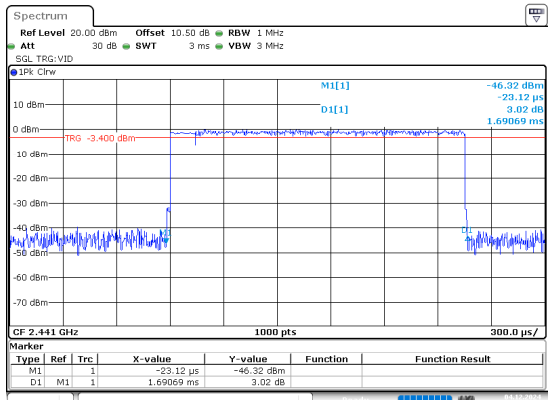
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:29:13

2DH1_Hopping



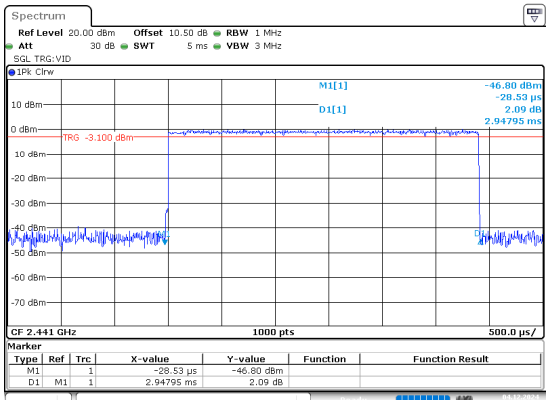
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:25:31

2DH3_Hopping



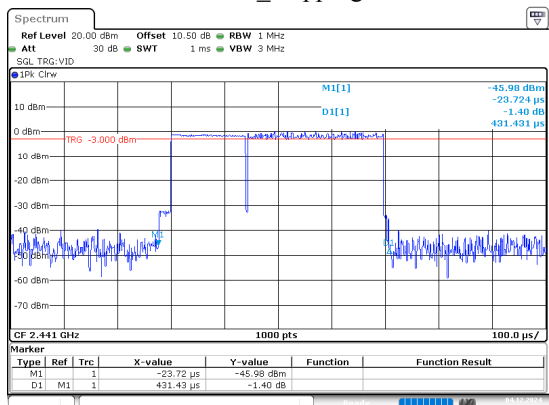
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:26:03

2DH5_Hopping

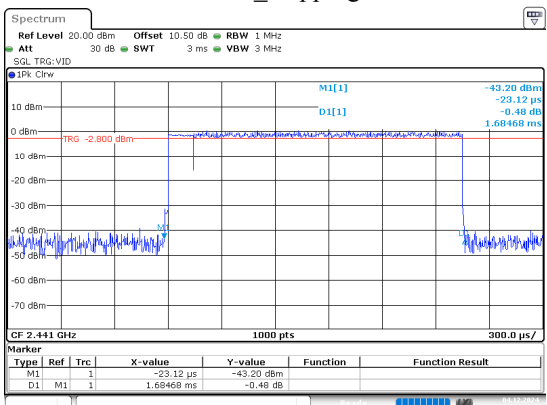


ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 13:26:30

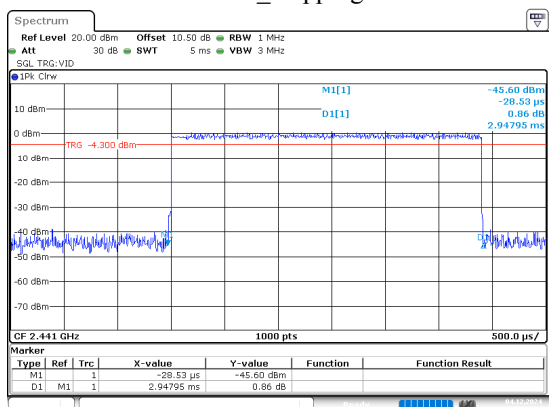
3DH1_Hopping



3DH3_Hopping



3DH5_Hopping



5.7 Maximum Conducted Output Power

Test Information:

Serial No.:	2VAY-1	Test Date:	2024/12/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.1	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

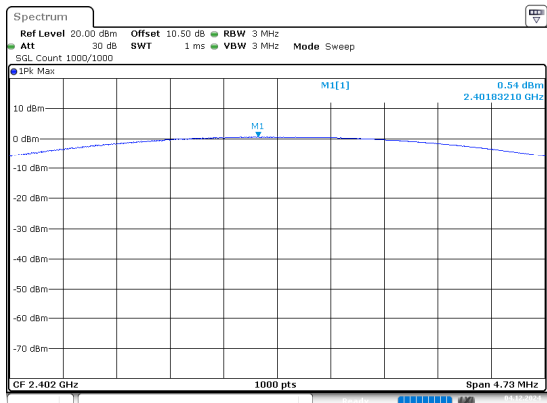
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

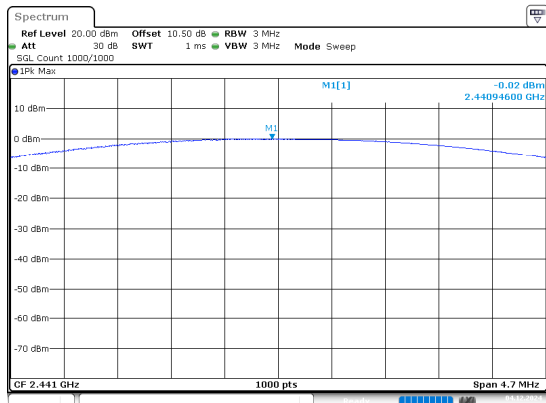
Mode	Channel	Result (dBm)	Limit (dBm)	Verdict
DH1	Low	0.54	21.00	Pass
	Middle	-0.02	21.00	Pass
	High	-0.42	21.00	Pass
2DH1	Low	0.70	21.00	Pass
	Middle	0.28	21.00	Pass
	High	-0.45	21.00	Pass
3DH1	Low	1.06	21.00	Pass
	Middle	0.67	21.00	Pass
	High	-0.18	21.00	Pass

DH1_Low



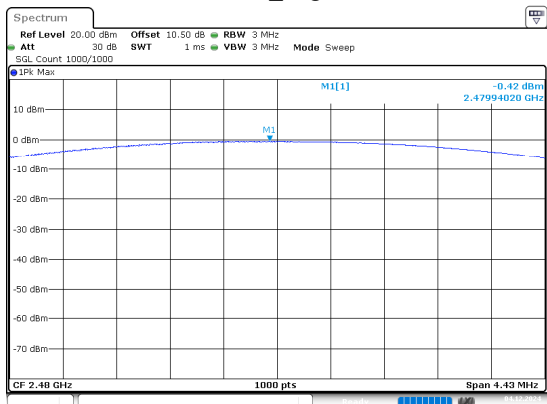
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:48:24

DH1_Middle



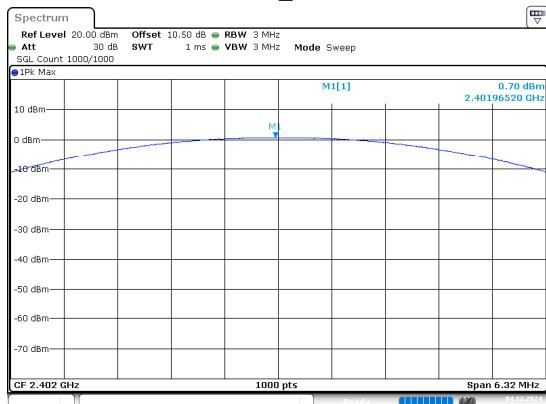
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:49:30

DH1_High



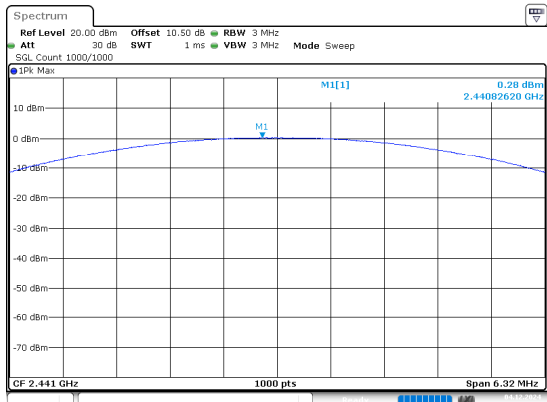
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:50:45

2DH1_Low



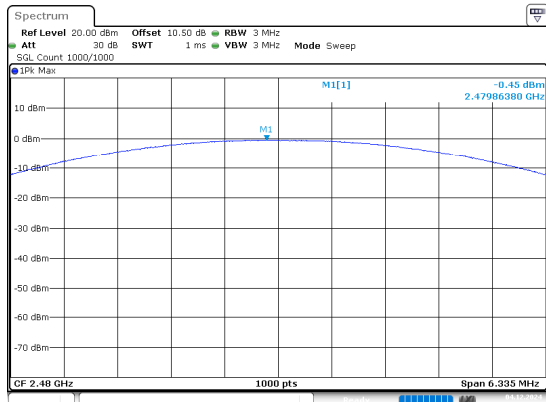
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:51:23

2DH1_Middle



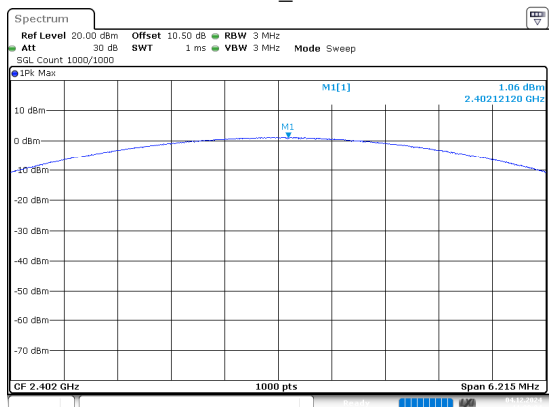
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:55:11

2DH1_High



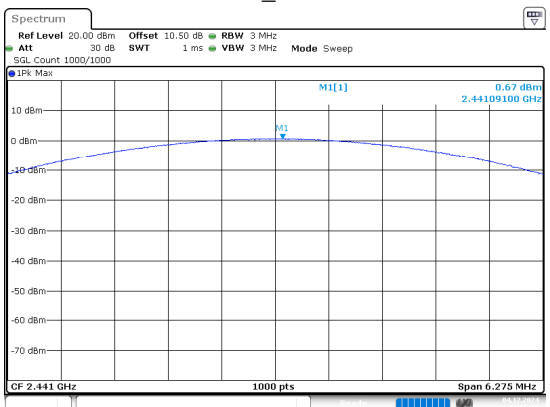
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:56:57

3DH1_Low



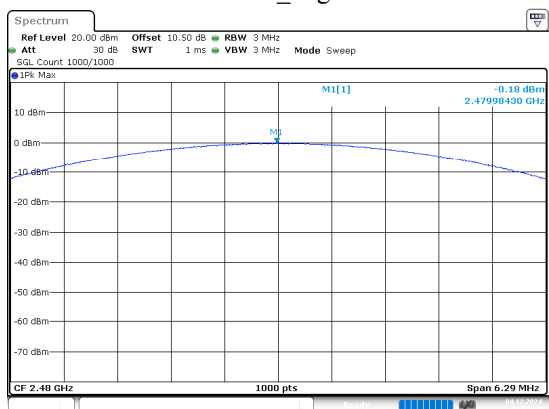
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 11:00:05

3DH1_Middle



ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 11:00:47

3DH1_High



ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 11:02:03

5.8 Conducted Emission

Test Information:

Serial No.:	2VAY-1	Test Date:	2024/12/04 ~2024/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Tower Qing	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	20.4~24.1	Relative Humidity: (%)	28~59	ATM Pressure: (kPa)	101.7~102.3
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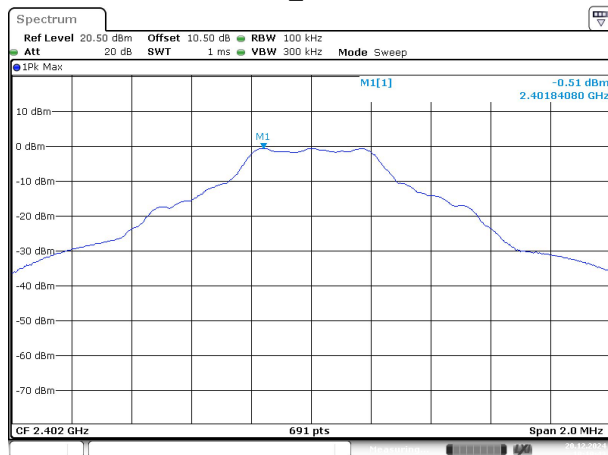
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/06/13	2025/06/12
R&S	Spectrum Analyzer	FSV40	101589	2024/09/05	2025/09/04

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

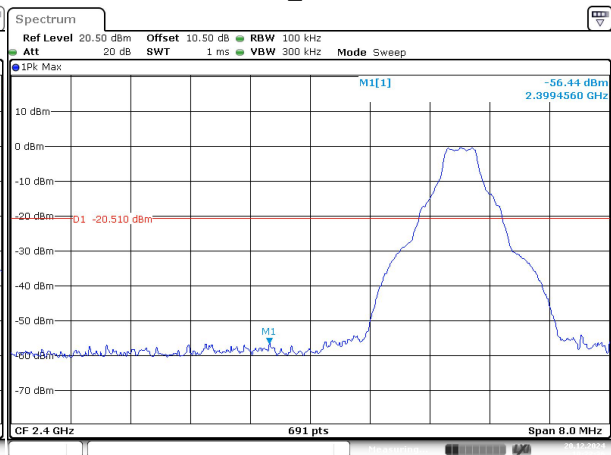
Test plots as following:

BDR_Low -1



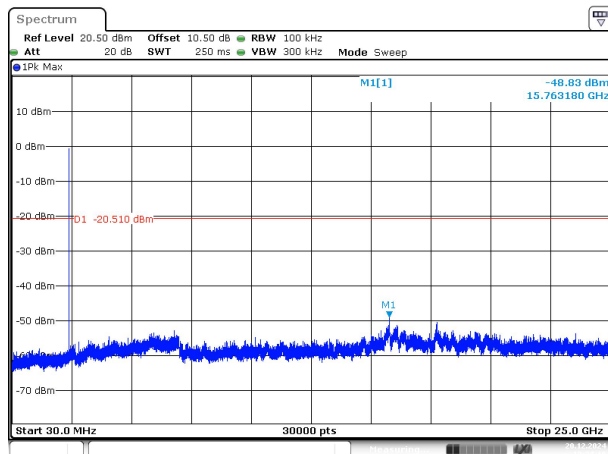
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:19:43

BDR_Low -2



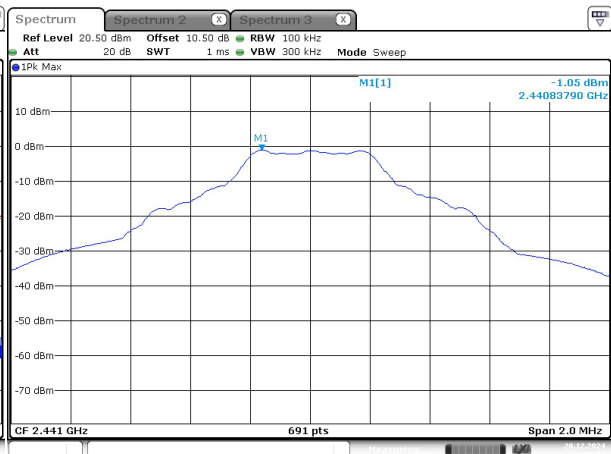
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:22:36

BDR_Low -3



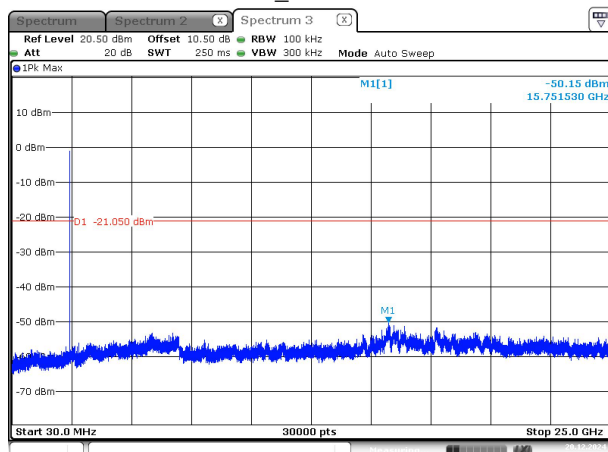
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:24:19

BDR_Middle -1



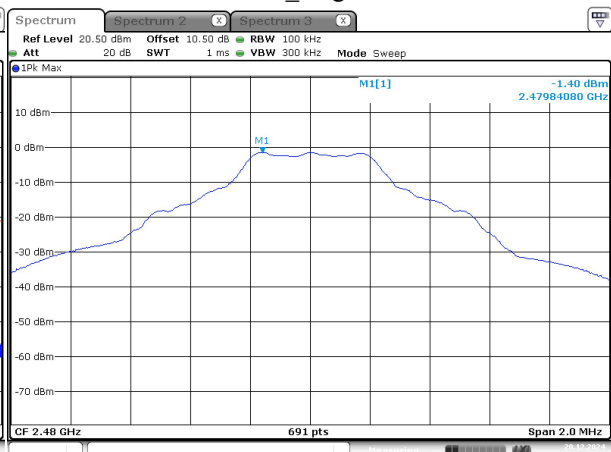
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:34:47

BDR_Middle -2



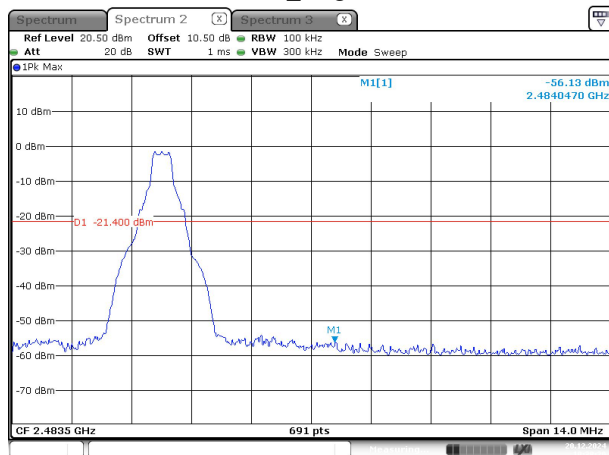
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:35:42

BDR_High -1



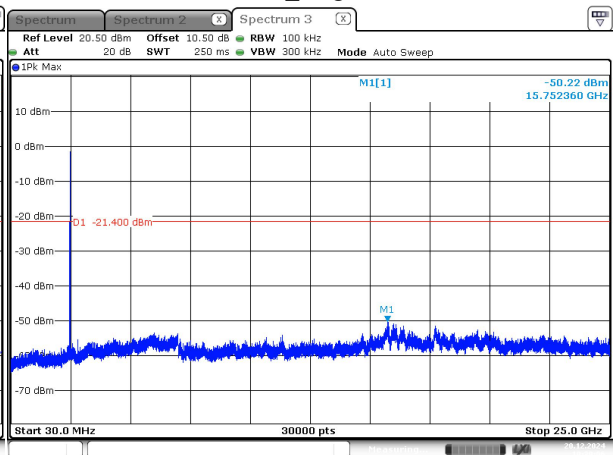
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Date: 20.DEC.2024 10:36:37

BDR_High -2



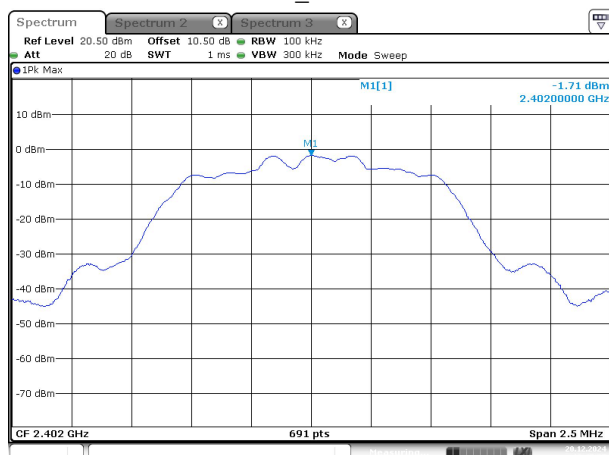
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Date: 20.DEC.2024 10:38:20

BDR_High -3



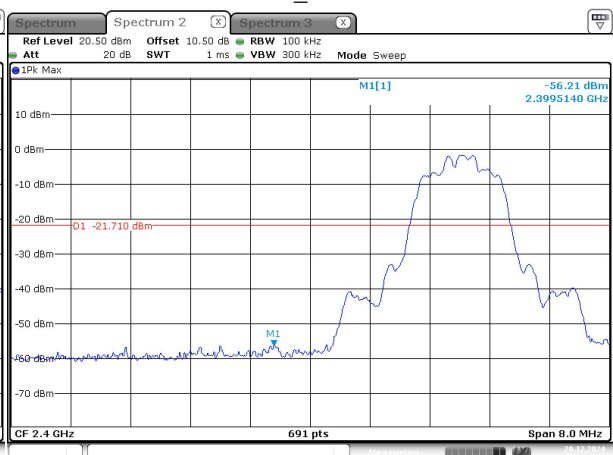
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:39:06

2EDR_Low -1



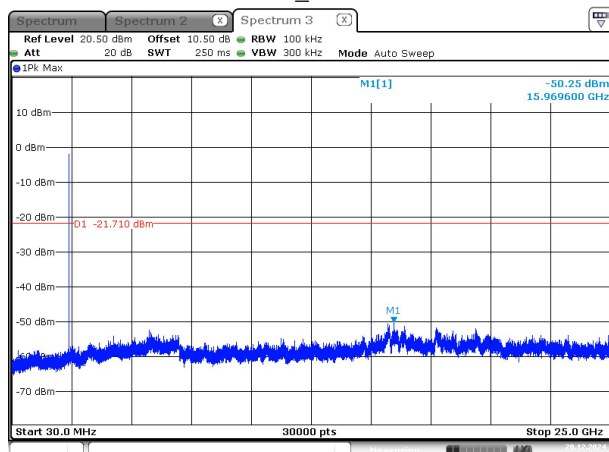
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:47:56

2EDR_Low -2



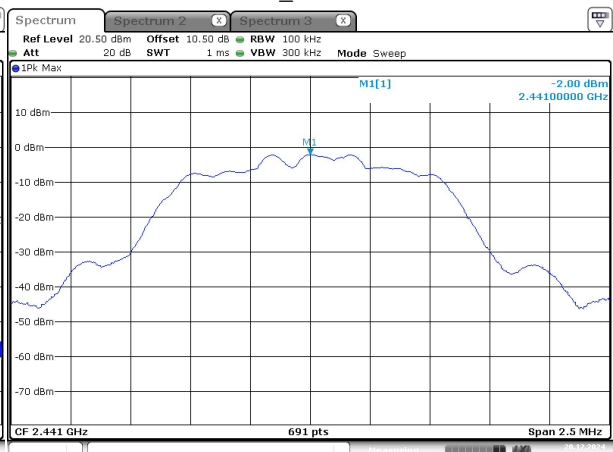
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:54:17

2EDR_Low -3



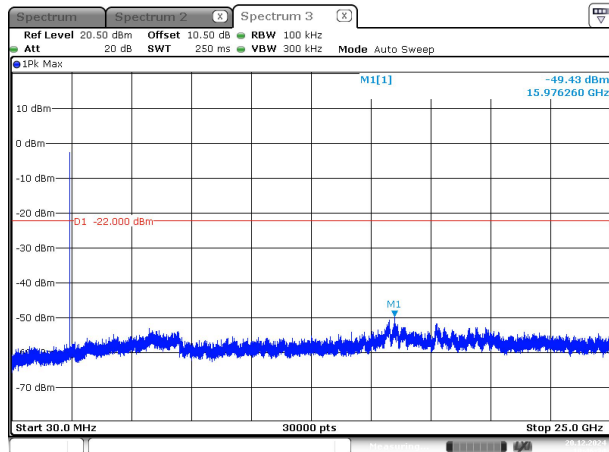
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Date: 20.DEC.2024 10:54:46

2DH1_Middle -1



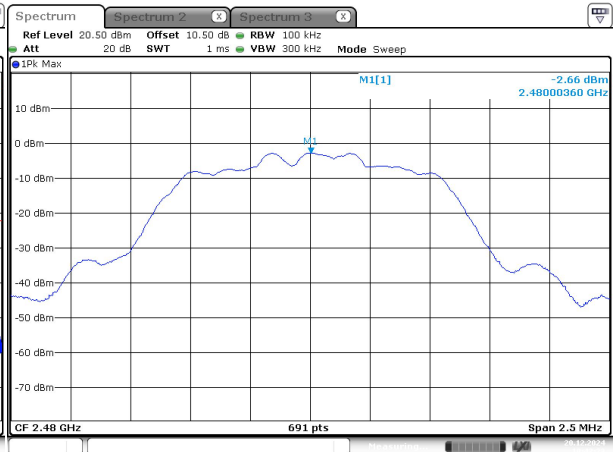
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:54:29

2DH1_Middle -2



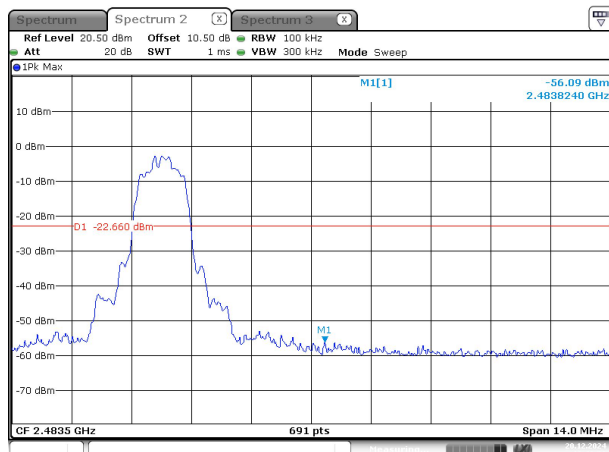
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:46:34

2DH1_High -1



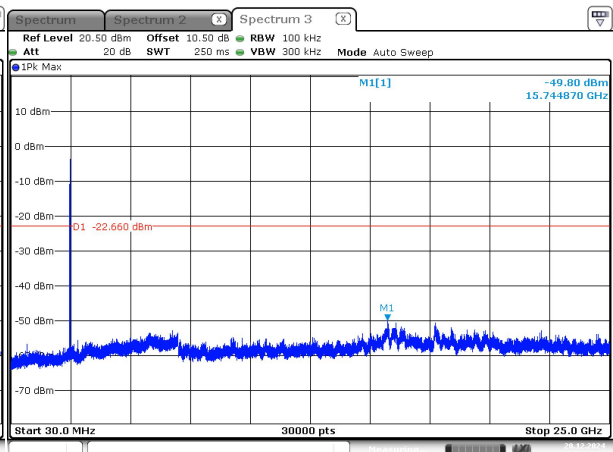
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:42:22

2DH1_High -2



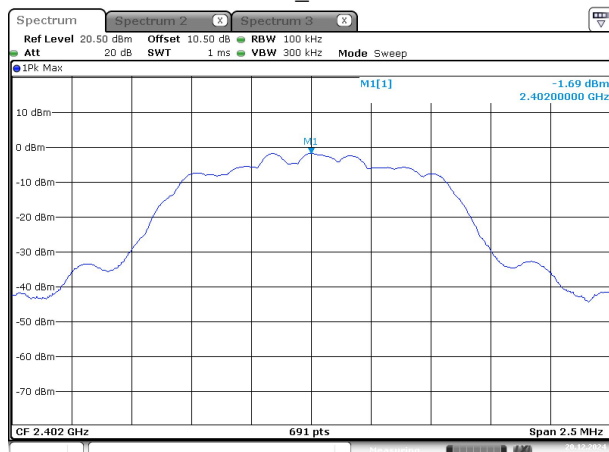
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:42:52

2DH1_High -3



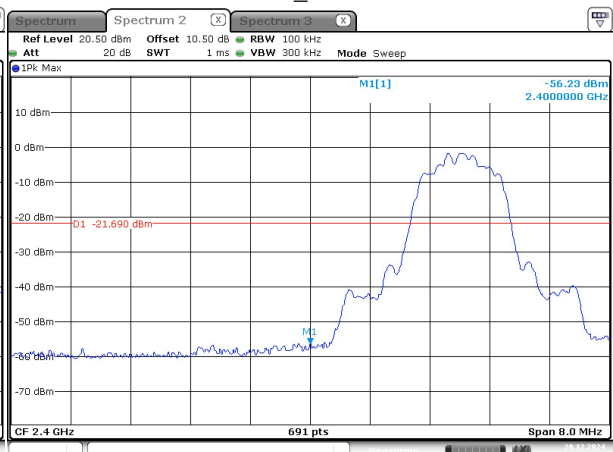
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:43:53

3EDR_Low -1



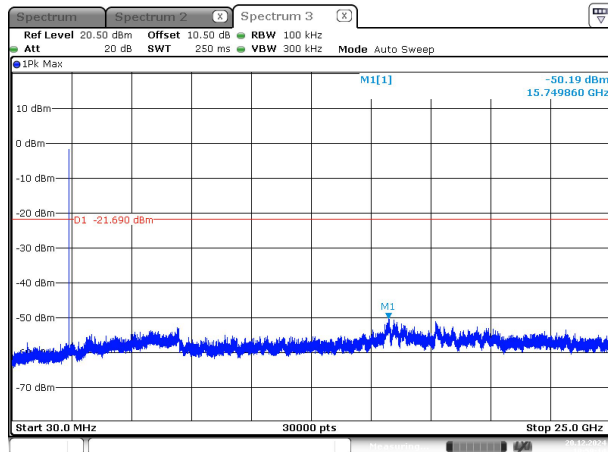
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:56:48

3EDR_Low -2



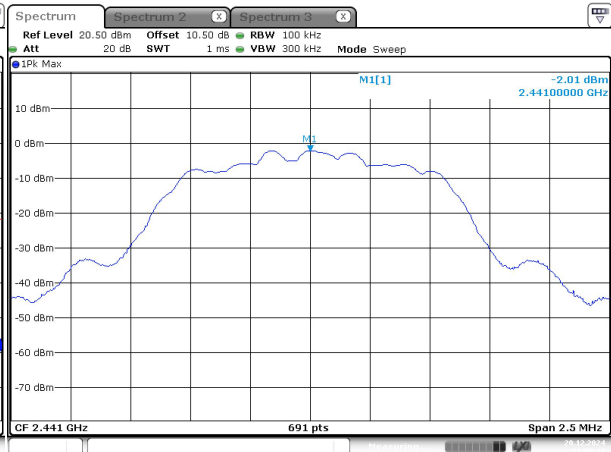
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:57:22

3EDR_Low -3



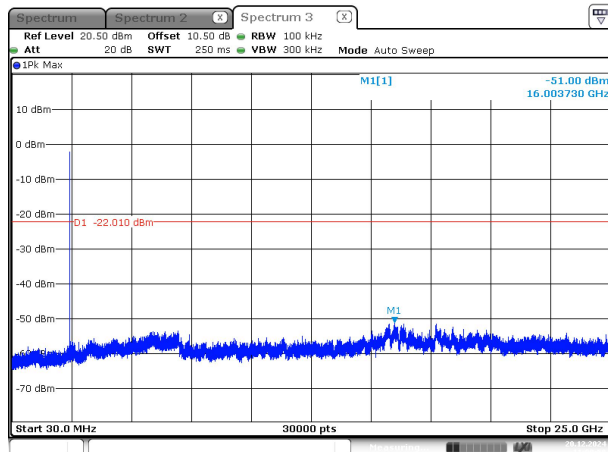
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 10:59:14

3EDR_Middle -1



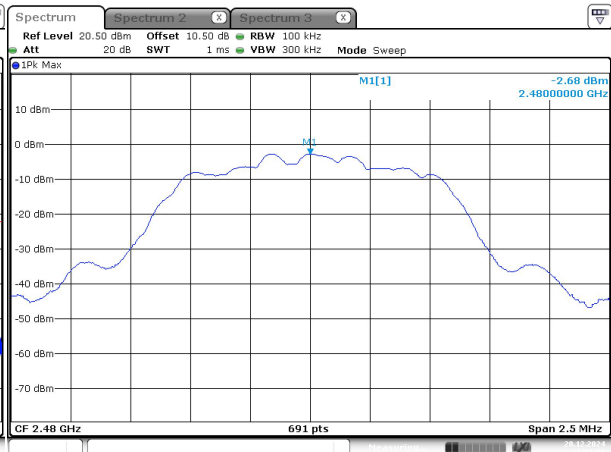
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 11:00:13

3EDR_Middle -2



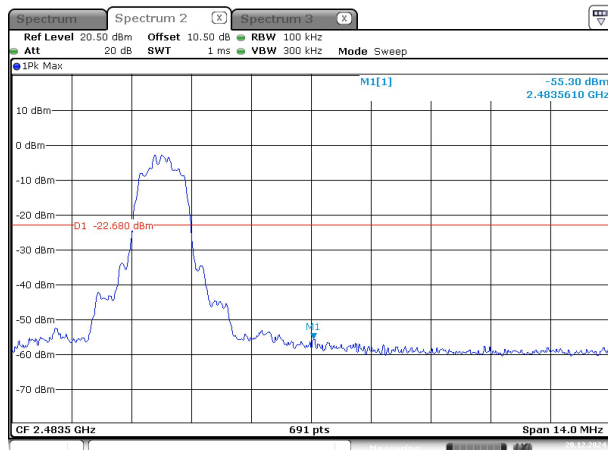
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 11:00:58

3EDR_High -1



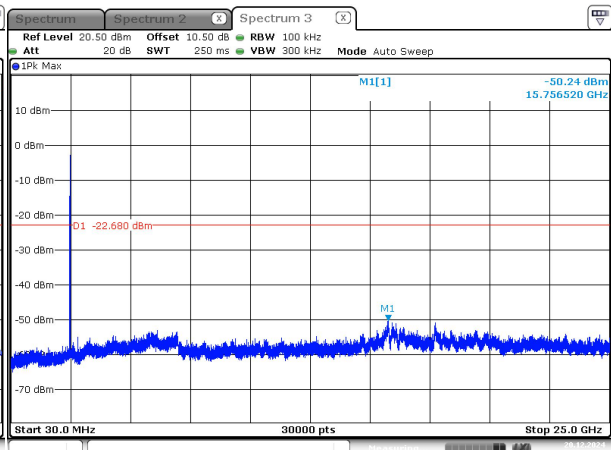
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 11:01:59

3EDR_High -2



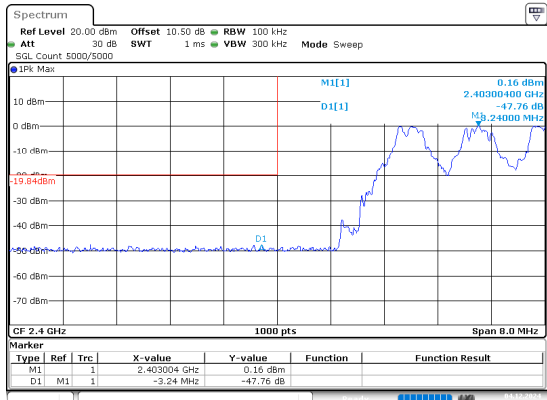
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 11:03:14

3EDR_High -3



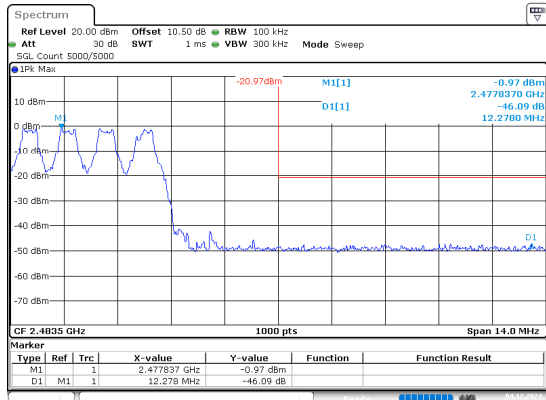
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 20.DEC.2024 11:04:24

DH1_Hopping_Lower



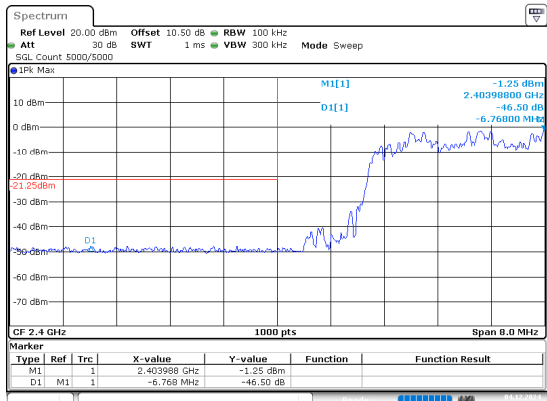
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:51:39

DH1_Hopping_Upper



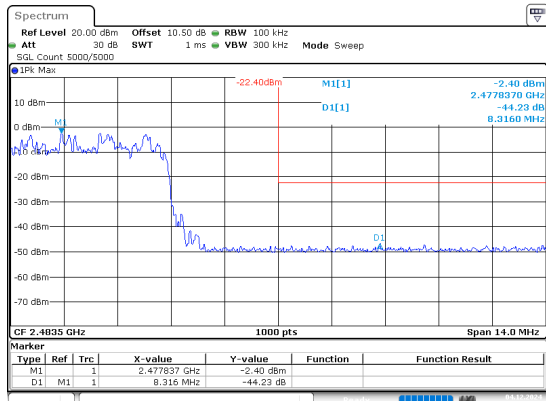
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:52:14

2DH1_Hopping_Lower



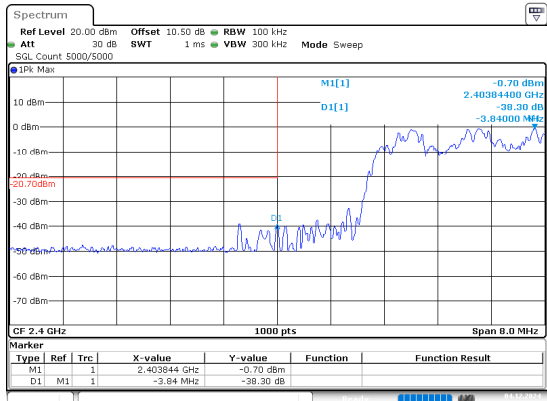
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:57:53

2DH1_Hopping_Upper



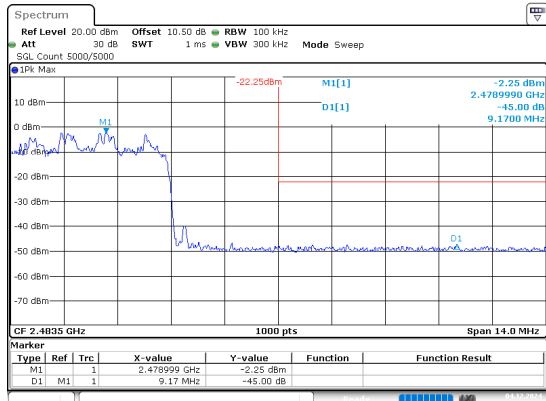
ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 10:58:29

3DH1_Hopping_Lower



ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 11:02:58

3DH1_Hopping_Upper



ProjectNo.:2402A47729E-RF Tester:Tower Qing
Date: 4.DEC.2024 11:03:38

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402A47729E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402A47729E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2402A47729E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

EXHIBIT C - RF EXPOSURE EVALUATION

Applicable Standard

According to §15.247(i) and § 2.1093 and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max conducted power including tune-up tolerance is 2.0 dBm (1.58 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 1.58/5 \cdot (\sqrt{2.480}) = 0.5 < 3.0$

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

Result: Compliant. The stand-alone SAR evaluation is not necessary.

***** END OF REPORT *****