

CFR 47 FCC PART 15 SUBPART C(DSS)

TEST REPORT

For

Bluetooth speaker

MODEL NUMBER: LS-X2, LS-X1, LS-X3, LS-A090, LS-X5, LS-X6, LS-X7, LS-X8, LS-X9, LS-X10, LS-X11, LS-X12, LS-X15, LX-X16, LS-X17, LS-X18, LS-X19, LS-X20, BT-ZX33, LS-A15, LS-A16

REPORT NUMBER: E04A25020434F00101

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Prepared for

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Prepared by

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This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products. This report shall not be reproduced, except in full, without the written approval of Guangdong Global Testing Technology Co., Ltd.

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	February 26, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Complianc e
AC Power Line Conducted Emission	ANSI C63.10-2013 Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013 Clause 7.8.5	FCC Part 15.247 (b)(1)	Pass
20 dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013 Clause 6.9.2	FCC Part 15.247 (a)(1)	Pass
Carrier Hopping Channel Separation	ANSI C63.10-2013 Clause 7.8.2	FCC Part 15.247 (a)(1)	Pass
Number of Hopping Frequency	ANSI C63.10-2013 Clause 7.8.3	FCC Part 15.247 (b)(1)	Pass
Time of Occupancy (Dwell Time)	ANSI C63.10-2013 Clause 7.8.4	FCC Part 15.247 (a)(1)	Pass
Conducted Bandedge and Spurious Emission	ANSI C63.10-2013 Clause 6.10.4 & Clause 7.8.8	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013 Clause 6.3 & 6.5 & 6.6	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C(DSS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Address:	Shenzhen Lussi Electrical Equipment Limited Company Floor 3, Building A15,Fuqiao Third Industrial Zone Fuhai street, Baoan District, Shenzhen, China
Manufacturer Information	
Company Name: Address:	Shenzhen Lussi Electrical Equipment Limited Company Floor 3, Building A15,Fuqiao Third Industrial Zone Fuhai street, Baoan District, Shenzhen, China
EUT Information	
Product Description:	Bluetooth speaker
Model:	LS-X2
Series Model:	LS-X1, LS-X3, LS-A090, LS-X5, LS-X6, LS-X7, LS-X8, LS-X9, LS-X10, LS-X11, LS-X12, LS-X15, LX-X16, LS-X17, LS-X18, LS-X19, LS-X20, BT-ZX33, LS-A15, LS-A16
Brand:	N/A
Sample Received Date:	February 22, 2025
Sample Status:	Normal
Sample ID:	A25020434 001
Date of Tested:	February 22, 2025 to February 26, 2025

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

CFR 47 FCC PART 15 SUBPART C(DSS)

Pass

Prepared By:

Win Huang



Checked By:

an the

Alan He Laboratory Leader

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C(DSS)

3. FACILITIES AND ACCREDITATION

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty				
DTS Bandwidth	1.96	±9.2 PPM				
20dB Emission Bandwidth	1.96	±9.2 PPM				
Carrier Frequency Separation	1.96	±9.2 PPM				
Time of Occupancy	1.96	±0.57%				
Conducted Output Power	1.96	±1.5 dB				
Power Spectral Density Level	1.96	±1.9 dB				
Second conducted Spurious Emission 1.96 9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB						
Note: This uncertainty represents an expanded uncertainty expressed at approximately the						
95% confidence level using a coverage factor of k=1.96.						

Test Item	Measurement Frequency Range	К	U(dB)			
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37			
Radiated emissions	9 kHz ~ 30 MHz	2	4.16			
Radiated emissions	30 MHz ~ 1 GHz	2	3.79			
Radiated emissions	1 GHz ~ 18 GHz	2	5.62			
Radiated emissions18 GHz ~ 40 GHz25.54						
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.						

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Bluetooth speaker		
Model		LS-X2		
Series Model		LS-X1, LS-X3, LS-A090, LS-X5, LS-X6, LS-X7, LS-X8, LS-X9, LS-X10, LS-X11, LS-X12, LS-X15, LX-X16, LS-X17, LS-X18, LS-X19, LS-X20, BT-ZX33, LS-A15, LS-A16		
Model Difference		Note: Appearance differences.		
Hardware Version		V1.0		
Software Version		V1.4		
Ratings		DC 5V - 1A		
	DC	5V		
Power Supply	Battery	DC 3.7V 3600mAh, 13.32Wh		

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth V5.4
Bluetooth Mode:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, π/4-DQPSK
Number of Channels:	79
Channel Separation:	1 MHz
Maximum Peak Power:	2.25 dBm
Antenna Type:	PCB Antenna
Antenna Gain:	2.499 dBi
Normal Test Voltage:	5 Vdc
EUT Test software:	FCC_assist_1.0.2.2
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470

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09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/

5.3. MAXIMUM EIRP

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)	Maximum EIRP (dBm)
GFSK	2402 ~ 2480	0-78[79]	1.46	/
π/4-DQPSK	2402 ~ 2480	0-78[79]	2.25	/

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency	
GFSK	CH 0(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz	
π/4-DQPSK	CH 0(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz	

Note: The hop is hopping mode.

PACKET TYPE CONFIGURATION

Test Mode	Packet Type	Setting (Packet Length)	
	DH1	27	
GFSK	DH3	183	
	DH5	339	
	2-DH1	54	
π/4-DQPSK	2-DH3	367	
	2-DH5	679	

5.5. THE WORSE CASE POWER SETTING PARAMETER

WORST-CASE CONFIGURATIONS

Bluetooth Mode	Modulation Technology	Modulation Type	Data Rate (Mbps)
BR	FHSS	GFSK	1Mbit/s
EDR	FHSS	π/4-DQPSK	2Mbit/s

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band						
Test Software FCC_assist_1.0.2.2						
Modulation Type	Transmit Antenna	Test Software setting value				
	Number	CH 00	CH 39	CH 78		
GFSK	1	9	9	9		
π/4-DQPSK	1	9 9 9				

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PCB	2.499

Test Mode	Transmit and Receive Mode	Description	
GFSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.	
π/4-DQPSK	⊠1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.	

5.7. EUT ACCESSORY

	Cable
Accessory:	USB cable
Model No.:	/
Description:	USB Type-C Plug Cable
Cable Type:	Unshielded without ferrite
Length:	1 Meter
Accessory:	AUX cable
Model No.:	/
Description:	AUX Cable
Cable Type:	Unshielded without ferrite
Length:	1.5 Meter

5.8. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

TRF No.: 04-E001-0B

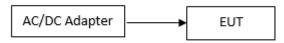
Item	Equipment	Mfr/Brand Model/Type No.		Series No.	Note
E-1	Laptop	Lenovo	Thinkpad T14	PF-3EAKYR	GTG Support
E-2	Adapter	Xiaomi	MDY-11-EX	N/A	GTG Support
E-3	Serial Port Tool	N/A	N/A	N/A	GTG Support

The following cables were used to form a representative test configuration during the tests.

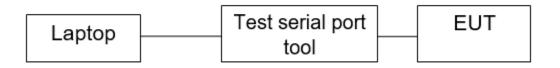
Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB cable	Unshielded	without ferrite	1.5 m
C-2	Dupont cable	Unshielded	without ferrite	0.6 m

5.9. SETUP DIAGRAM

AC Power Line Conducted Emission:



Radiated emissions:



6. MEASURING EQUIPMENT	AND SOFTWARE USED
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Test Equipment of Conducted RF						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2024/09/14	2025/09/13	
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2024/09/14	2025/09/13	
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2024/09/14	2025/09/13	
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2024/09/14	2025/09/13	
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2024/09/14	2025/09/13	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2024/09/14	2025/09/13	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2024/09/14	2025/09/13	
temperature humidity chamber	Espec	SH-241	SH-241-2014	2024/09/14	2025/09/13	
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A	

Test Equipment of Radiated emissions below 1GHz						
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29	
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/14	2025/09/13	
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13	
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2024/09/14	2025/09/13	
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09	
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22	
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29	
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A	

	Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date	
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29	
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2024/09/14	2025/09/13	
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13	
Pre-Amplifier	A-INFO	HPA-1G1850	HYPA21003	2024/09/14	2025/09/13	
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10	
Pre-Amplifier	ZKJC	HPA-184057	HYPA21004	2024/09/14	2025/09/13	

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Horn antenna	ZKJC	3116C	246265	2022/03/29	2025/03/28
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

<u>LIMITS</u>

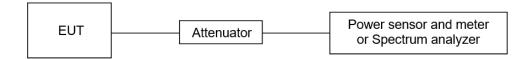
CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3				
Section Test Item Limit Frequency Range (MHz)				
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5	

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

7.2. 20 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

<u>LIMITS</u>

CFR 47FCC Part15 (15.247) Subpart C			
Section Test Item Limit Frequency Range (MHz)			
CFR 47 FCC 15.247 (a) (1)	20 dB Bandwidth	None; for reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.9.2.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
IBBW/	For 20 dB Bandwidth: 1 % to 5 % of the 20 dB bandwidth For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
	For 20 dB Bandwidth: approximately 3×RBW For 99 % Occupied Bandwidth: ≥ 3×RBW
Span	Approximately 2 to 3 times the 20dB bandwidth
Trace	Max hold
Sweep	Auto couple

a) Use the occupied bandwidth function of the instrument, allow the trace to stabilize and report the measured 99 % occupied bandwidth and 20 dB Bandwidth.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

7.3. CARRIER HOPPING CHANNEL SEPARATION

LIMITS

CFR 47 FCC Part15 (15.247),				
Section	Test Item	Limit	Frequency Range (MHz)	
CFR 47 FCC 15.247 (a) (1)	Carrier Frequency Separation	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel.	2400-2483.5	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.2.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Span	wide enough to capture the peaks of two adjacent channels
Detector	Peak
	Start with the RBW set to approximately 30 % of the channel spacing; adjust as necessary to best identify the center of each individual channel.
VBW	≥RBW
Trace	Max hold
Sweep time	Auto couple

Allow the trace to stabilize and use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

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TEST RESULTS

7.4. NUMBER OF HOPPING FREQUENCY

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247), Subpart C				
Section Test Item Limit				
CFR 47 15.247 (a) (1) III	at least 15 hopping channels			

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.3.

Connect the EUT to the spectrum Analyzer and use the following settings:

Detector	Peak
RBW	To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW	≥RBW
	The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
Trace	Max hold
Sweep time	Auto couple

Set EUT to transmit maximum output power and switch on frequency hopping function. then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer, count the quantity of peaks to get the number of hopping channels.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

7.5. TIME OF OCCUPANCY (DWELL TIME)

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247), Subpart C			
Section Test Item Limit			
CFR 47 15.247 (a) (1) III	Time of Occupancy (Dwell Time)	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed.	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.4.

Connect the EUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	1 MHz	
VBW	≥RBW	
Span	Zero span, centered on a hopping channel	
Trace	Max hold	
Sweep time	As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel	

Use the marker-delta function to determine the transmit time per hop (Burst Width). If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

For FHSS Mode (79 Channel):

DH1/3DH1 Dwell Time: Burst Width * (1600/2) * 31.6 / (channel number) DH3/3DH3 Dwell Time: Burst Width * (1600/4) * 31.6 / (channel number) DH5/3DH5 Dwell Time: Burst Width * (1600/6) * 31.6 / (channel number)

For AFHSS Mode (20 Channel): DH1/3DH1 Dwell Time: Burst Width * (1600/2) * 8 / (channel number) DH3/3DH3 Dwell Time: Burst Width * (1600/4) * 8 / (channel number) DH5/3DH5 Dwell Time: Burst Width * (1600/6) * 8 / (channel number)

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

7.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSION

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247), Subpart C			
Section Test Item Limit			
CFR 47 FCC §15.247 (d)	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power	

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 7.8.6 and 7.8.8.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test	
Detector	Peak	
RBW	100 kHz	
VBW	≥3 × RBW	
Span	1.5 x DTS bandwidth	
Trace	Max hold	
Sweep time	Auto couple.	

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

7.7. DUTY CYCLE

<u>LIMITS</u>

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	58%
Atmosphere Pressure	101kPa		

TEST RESULTS

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz-1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Field Strength Limit	Field Strength Limit	
(MHz)	(uV/m) at 3 m	(dBuV/m) at 3 m	
(Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	300	74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz			
Frequency (MHz) Field strength (microvolts/meter) Measurement distance (meters)			
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

The setting of the spectrum analyser

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

RBW	MHz			
NRW	PEAK: 3 MHz AVG: see note 6			
Sweep	Auto			
Detector	Peak			
Trace	Max hold			

The setting of the spectrum analyser

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

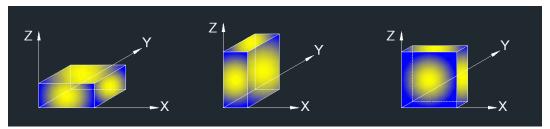
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

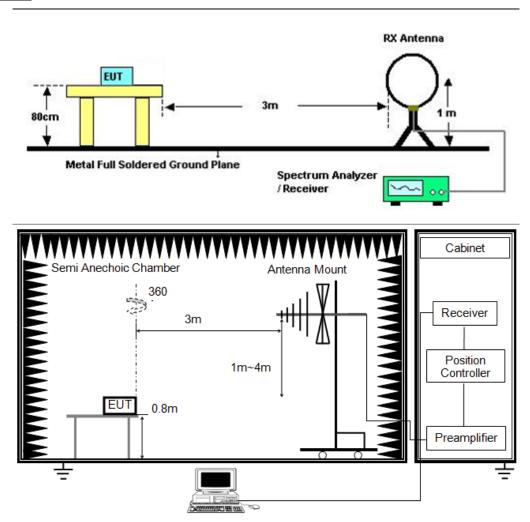
X axis, Y axis, Z axis positions:

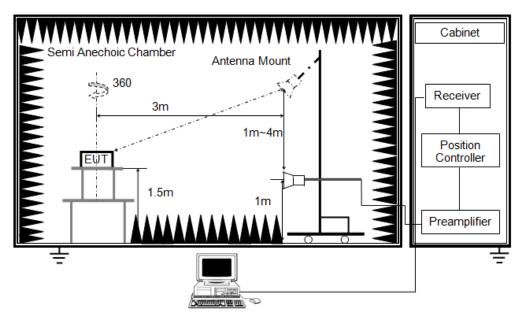


Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

TEST SETUP





TEST ENVIRONMENT

Temperature	22.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

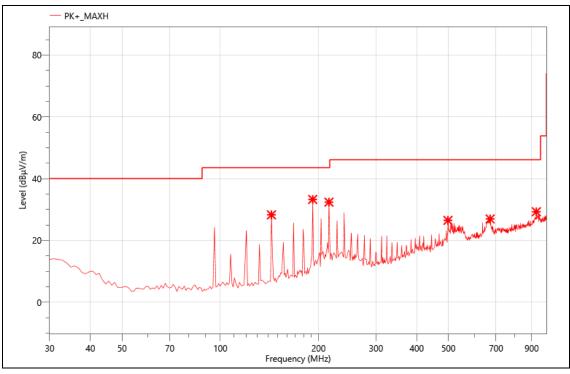
TEST RESULTS

8.1. RADIATED BAND EDGE AND SPURIOUS EMISSION

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

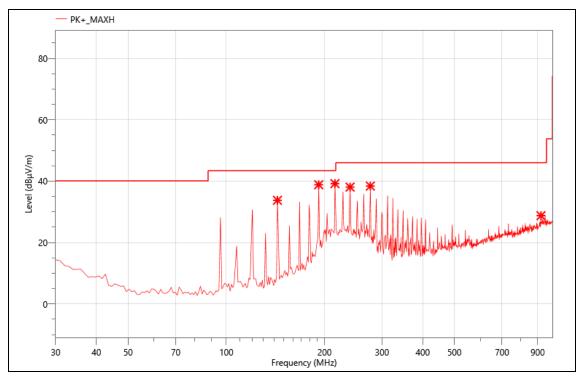
All modes have been tested and the worst result as bellow:

Mode:	2-DH5-2402
Power:	DC 5V
TE:	Berny
Date	2025/02/22
T/A/P	22.1°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	143.490	51.27	-23.01	28.26	43.50	15.24	PK+	V
2	191.990	55.83	-22.59	33.24	43.50	10.26	PK+	V
3	215.270	53.20	-20.83	32.37	43.50	11.13	PK+	V
4	498.510	38.33	-11.85	26.48	46.00	19.52	PK+	V
5	671.170	34.38	-7.44	26.94	46.00	19.06	PK+	V
6	930.160	31.37	-2.1	29.27	46.00	16.73	PK+	V

Mode:	2-DH5-2402
Power:	DC 5V
TE:	Berny
Date	2025/02/22
T/A/P	22.1°C/51%/101Kpa

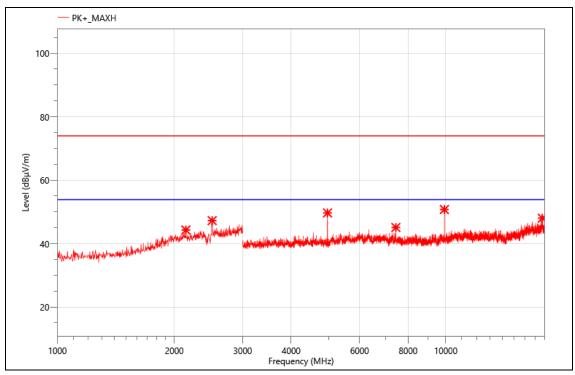


No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	143.490	56.78	-23.01	33.77	43.50	9.73	PK+	Н
2	191.990	61.43	-22.59	38.84	43.50	4.66	PK+	Н
3	215.270	60.03	-20.83	39.20	43.50	4.30	PK+	Н
4	239.520	57.34	-19.26	38.08	46.00	7.92	PK+	Н
5	276.380	57.31	-18.91	38.40	46.00	7.60	PK+	Н
6	921.430	31.46	-2.7	28.76	46.00	17.24	PK+	Н

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

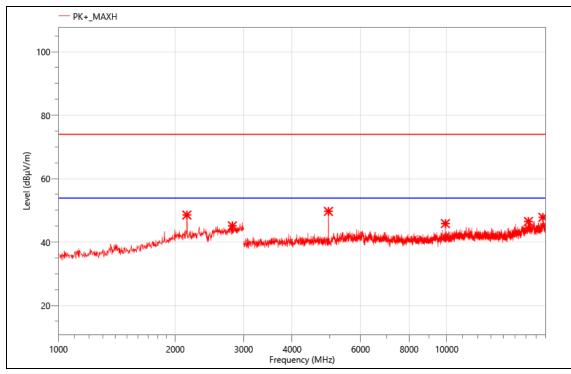
Mode:	2-DH5-2480
Power:	DC 5V
TE:	Berny
Date	2025/02/25
T/A/P	22.1°C/51%/101Kpa

All modes have been tested and the worst result as bellow:



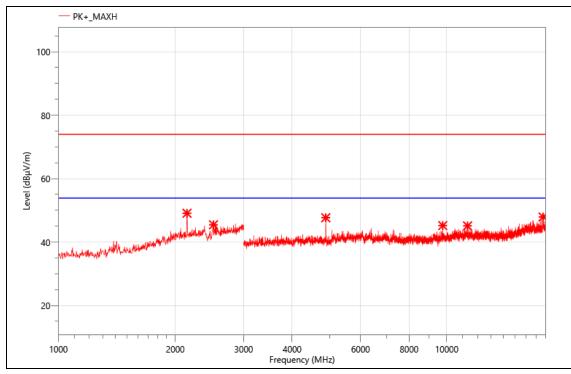
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2142.000	53.33	-9.05	44.28	74.00	29.72	PK+	Н
2	2504.000	55.64	-8.41	47.23	74.00	26.77	PK+	Н
3	4960.500	61.00	-11.34	49.66	74.00	24.34	PK+	Н
4	7440.000	53.03	-7.96	45.07	74.00	28.93	PK+	Н
5	9919.500	57.09	-6.35	50.74	74.00	23.26	PK+	Н
6	17724.000	48.35	-0.34	48.01	74.00	25.99	PK+	Н

Mode:	2-DH5-2480
Power:	DC 5V
TE:	Berny
Date	2025/02/25
T/A/P	22.1°C/51%/101Kpa



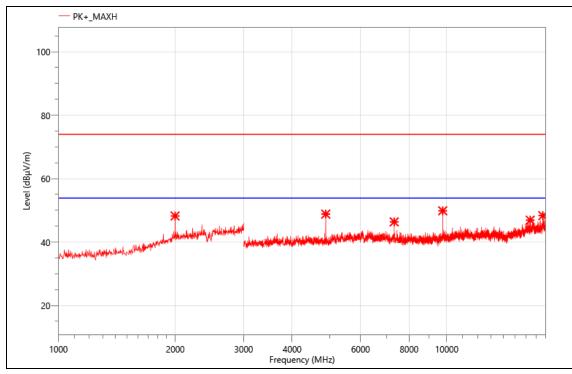
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2142.000	57.59	-9.05	48.54	74.00	25.46	PK+	V
2	2806.000	53.47	-8.37	45.10	74.00	28.90	PK+	V
3	4959.000	61.02	-11.35	49.67	74.00	24.33	PK+	V
4	9921.000	52.17	-6.34	45.83	74.00	28.17	PK+	V
5	16230.000	47.48	-1	46.48	74.00	27.52	PK+	V
6	17682.000	47.52	0.28	47.80	74.00	26.20	PK+	V

Mode:	2-DH5-2441
Power:	DC 5V
TE:	Berny
Date	2025/02/25
T/A/P	22.1°C/51%/101Kpa



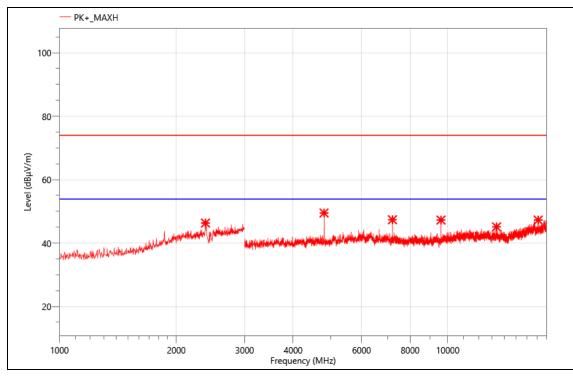
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2144.000	58.13	-9.05	49.08	74.00	24.92	PK+	V
2	2508.000	53.89	-8.43	45.46	74.00	28.54	PK+	V
3	4881.000	58.81	-11.14	47.67	74.00	26.33	PK+	V
4	9765.000	52.17	-6.97	45.20	74.00	28.80	PK+	V
5	11311.500	49.67	-4.57	45.10	74.00	28.90	PK+	V
6	17698.500	47.73	0.19	47.92	74.00	26.08	PK+	V

Mode:	2-DH5-2441
Power:	DC 5V
TE:	Berny
Date	2025/02/25
T/A/P	22.1°C/51%/101Kpa



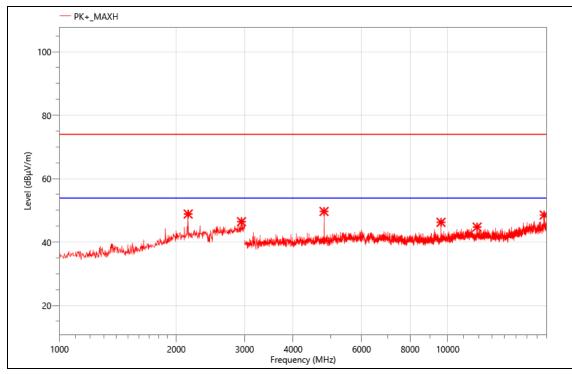
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	1998.000	57.33	-9.1	48.23	74.00	25.77	PK+	Н
2	4881.000	59.95	-11.14	48.81	74.00	25.19	PK+	Н
3	7323.000	54.32	-7.95	46.37	74.00	27.63	PK+	Н
4	9763.500	56.83	-6.97	49.86	74.00	24.14	PK+	Н
5	16401.000	48.07	-1.16	46.91	74.00	27.09	PK+	Н
6	17676.000	48.02	0.31	48.33	74.00	25.67	PK+	Н

Mode:	2-DH5-2402
Power:	DC 5V
TE:	Berny
Date	2025/02/25
T/A/P	22.1°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2378.000	54.83	-8.52	46.31	74.00	27.69	PK+	Н
2	4803.000	60.83	-11.34	49.49	74.00	24.51	PK+	Н
3	7206.000	55.36	-8	47.36	74.00	26.64	PK+	Н
4	9607.500	54.32	-7.06	47.26	74.00	26.74	PK+	Н
5	13356.000	49.31	-4.2	45.11	74.00	28.89	PK+	Н
6	17097.000	48.00	-0.75	47.25	74.00	26.75	PK+	Н

Mode:	2-DH5-2402
Power:	DC 5V
TE:	Berny
Date	2025/02/25
T/A/P	22.1°C/51%/101Kpa



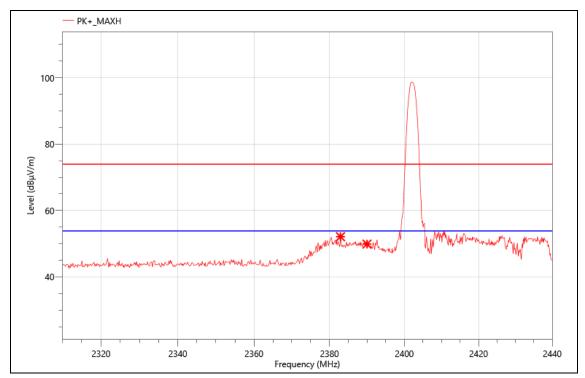
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2146.000	57.89	-9.05	48.84	74.00	25.16	PK+	V
2	2944.000	53.89	-7.46	46.43	74.00	27.57	PK+	V
3	4803.000	60.99	-11.34	49.65	74.00	24.35	PK+	V
4	9609.000	53.31	-7.09	46.22	74.00	27.78	PK+	V
5	11902.500	49.06	-4.32	44.74	74.00	29.26	PK+	V
6	17710.500	48.56	-0.05	48.51	74.00	25.49	PK+	V

For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

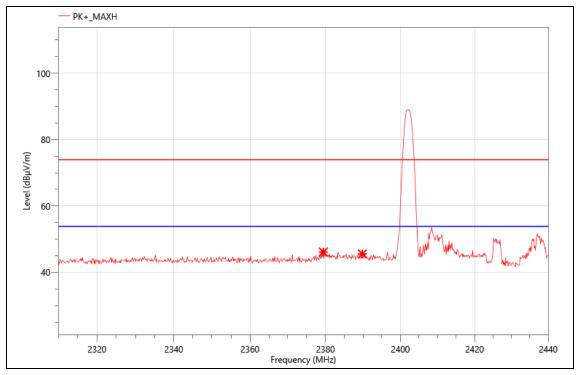
Mode:	2-DH5-2402
Power:	DC 5V
TE:	Berny
Date	2025/02/22
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

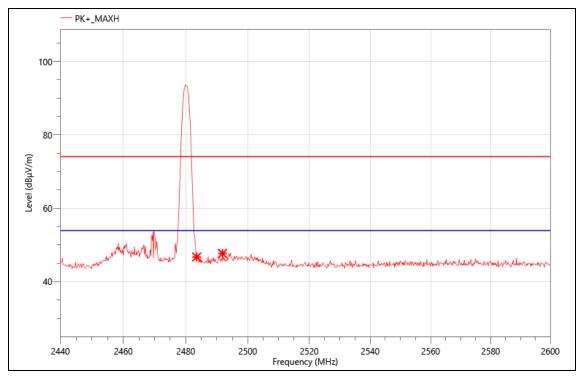
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2382.930	34.48	17.62	52.10	74.00	21.90	PK+	Н
2	2390.000	32.11	17.76	49.87	74.00	24.13	PK+	Н

Mode:	2-DH5-2402
Power:	DC 5V
TE:	Berny
Date	2025/02/22
T/A/P	22.1°C/51%/101Kpa



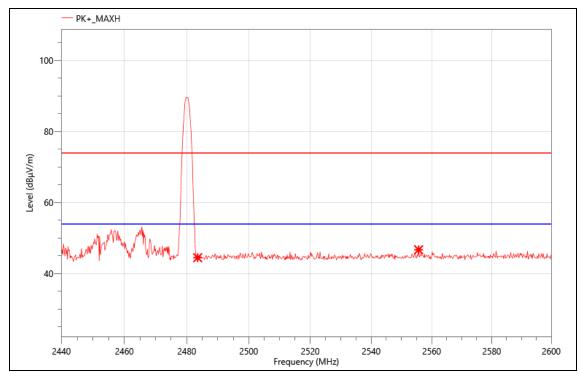
No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2379.420	28.57	17.56	46.13	74.00	27.87	PK+	V
2	2389.820	27.78	17.76	45.54	74.00	28.46	PK+	V

Mode:	2-DH5-2480
Power:	DC 5V
TE:	Berny
Date	2025/02/22
T/A/P	22.1°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.500	28.39	18.33	46.72	74.00	27.28	PK+	Н
2	2491.840	29.37	18.32	47.69	74.00	26.31	PK+	Н

Mode:	2-DH5-2480
Power:	DC 5V
TE:	Berny
Date	2025/02/22
T/A/P	22.1°C/51%/101Kpa



No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.500	26.13	18.33	44.46	74.00	29.54	PK+	V
2	2555.680	28.05	18.64	46.69	74.00	27.31	PK+	V

For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Compliance.

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

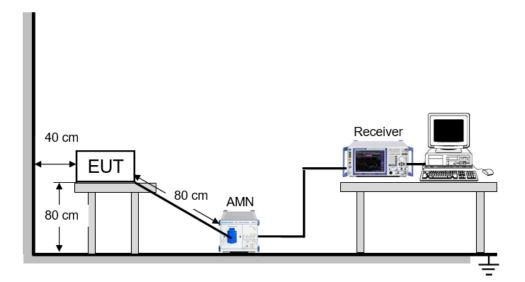
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver is used to test the emissions from the AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

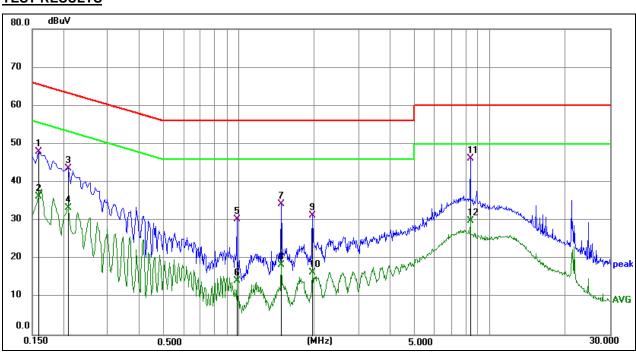
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	26.2°C	Relative Humidity	54%
Atmosphere Pressure	100kPa		

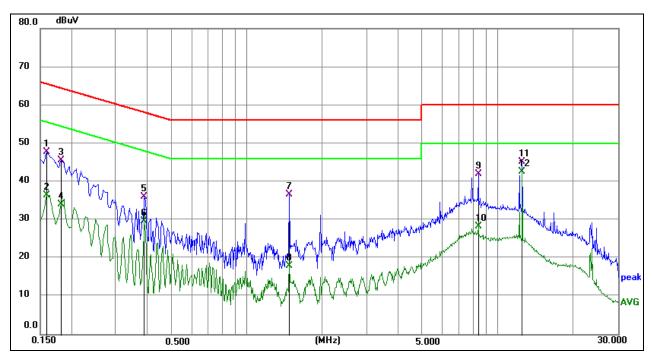


TEST RESULTS

Phase:	L1

Mode: 2DH5 2402MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1590	38.27	9.71	47.98	65.52	-17.54	QP
2	0.1590	26.50	9.71	36.21	55.52	-19.31	AVG
3	0.2085	33.88	9.71	43.59	63.26	-19.67	QP
4	0.2085	23.48	9.71	33.19	53.26	-20.07	AVG
5	0.9825	20.48	9.75	30.23	56.00	-25.77	QP
6	0.9825	4.44	9.75	14.19	46.00	-31.81	AVG
7	1.4730	24.50	9.83	34.33	56.00	-21.67	QP
8	1.4730	8.60	9.83	18.43	46.00	-27.57	AVG
9	1.9635	21.30	9.93	31.23	56.00	-24.77	QP
10	1.9635	6.46	9.93	16.39	46.00	-29.61	AVG
11	8.3535	36.18	9.88	46.06	60.00	-13.94	QP
12	8.3535	20.00	9.88	29.88	50.00	-20.12	AVG



Phase: N	Mode: 2DH5 2402MHz

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1590	37.91	9.89	47.80	65.52	-17.72	QP
2	0.1590	26.56	9.89	36.45	55.52	-19.07	AVG
3	0.1815	35.62	9.85	45.47	64.42	-18.95	QP
4	0.1815	24.16	9.85	34.01	54.42	-20.41	AVG
5	0.3885	26.19	9.76	35.95	58.10	-22.15	QP
6	0.3885	20.01	9.76	29.77	48.10	-18.33	AVG
7	1.4730	26.88	9.79	36.67	56.00	-19.33	QP
8	1.4730	8.24	9.79	18.03	46.00	-27.97	AVG
9	8.3535	32.10	9.98	42.08	60.00	-17.92	QP
10	8.3535	18.30	9.98	28.28	50.00	-21.72	AVG
11	12.4665	35.24	9.97	45.21	60.00	-14.79	QP
12	12.4665	32.57	9.97	42.54	50.00	-7.46	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

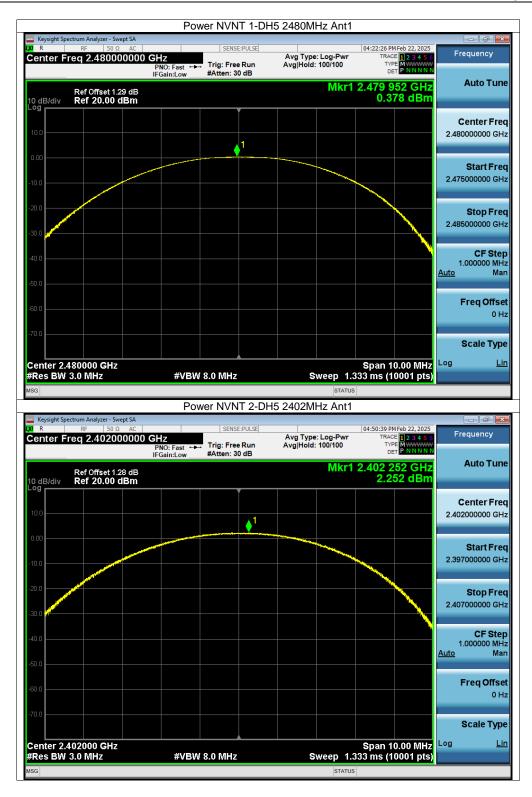
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

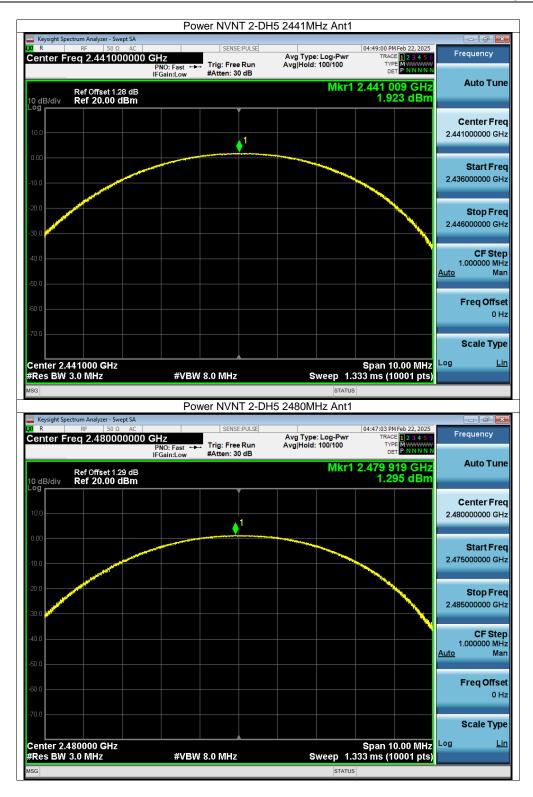
11. TEST DATA - Appendix A

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.46	21	Pass
NVNT	1-DH5	2441	Ant1	1.03	21	Pass
NVNT	1-DH5	2480	Ant1	0.38	21	Pass
NVNT	2-DH5	2402	Ant1	2.25	21	Pass
NVNT	2-DH5	2441	Ant1	1.92	21	Pass
NVNT	2-DH5	2480	Ant1	1.3	21	Pass

Maximum Conducted Output Power







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Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.04	N/A	N/A
NVNT	1-DH5	2441	Ant1	1.04	N/A	N/A
NVNT	1-DH5	2480	Ant1	1.04	N/A	N/A
NVNT	2-DH5	2402	Ant1	1.33	N/A	N/A
NVNT	2-DH5	2441	Ant1	1.32	N/A	N/A
NVNT	2-DH5	2480	Ant1	1.34	N/A	N/A

-20dB Bandwidth

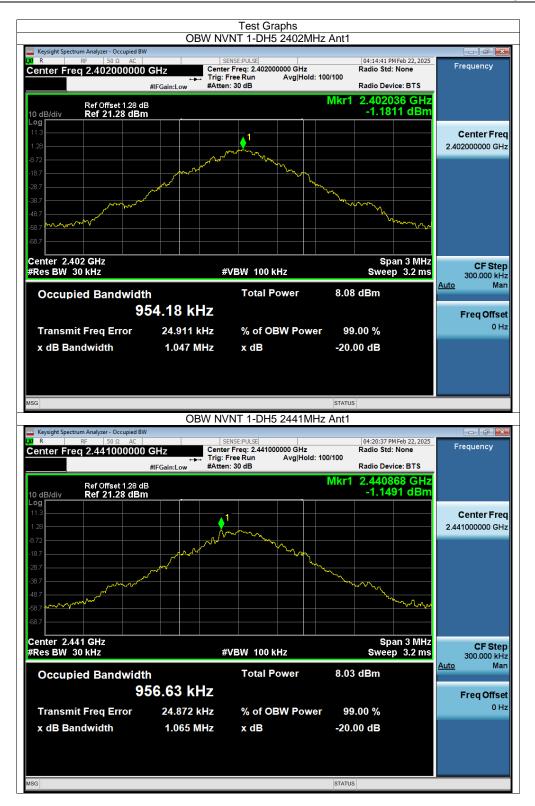


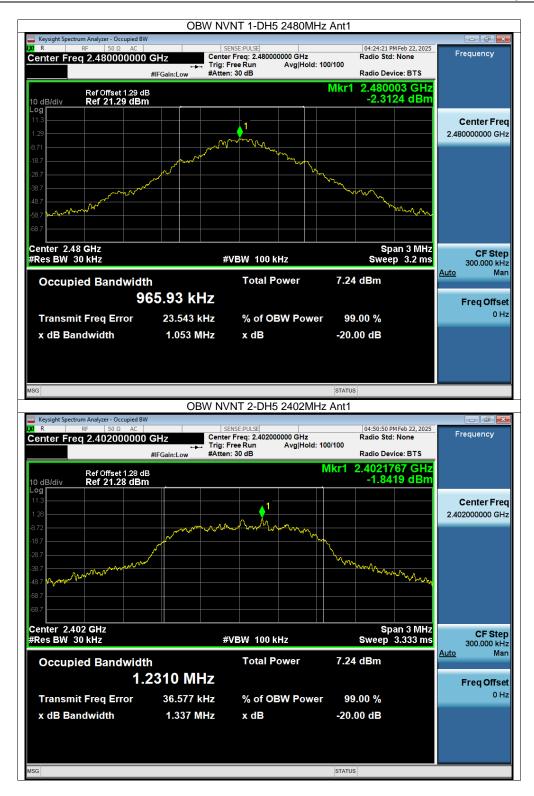


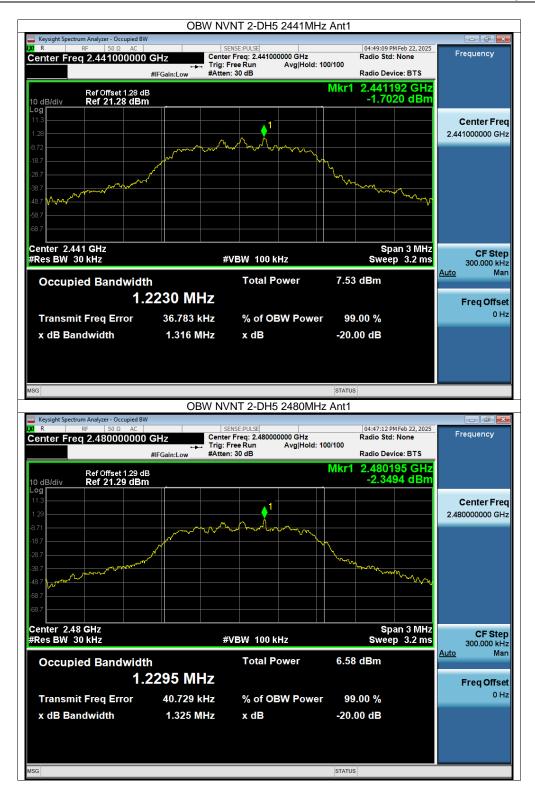


Frequency (MHz) 2402 99% OBW (MHz) Antenna NVNT 1-DH5 Ant1 0.954 NVNT 1-DH5 2441 Ant1 0.957 2480 NVNT 1-DH5 Ant1 0.966 NVNT 2-DH5 2402 Ant1 1.231 NVNT 2-DH5 2441 1.223 Ant1 NVNT 2-DH5 2480 Ant1 1.229

Occupied Channel Bandwidth Condition Mode Frequency (MH



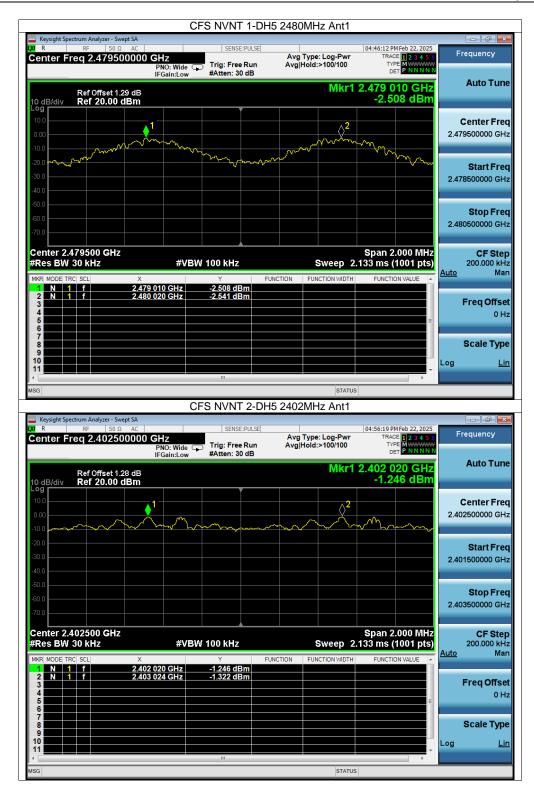


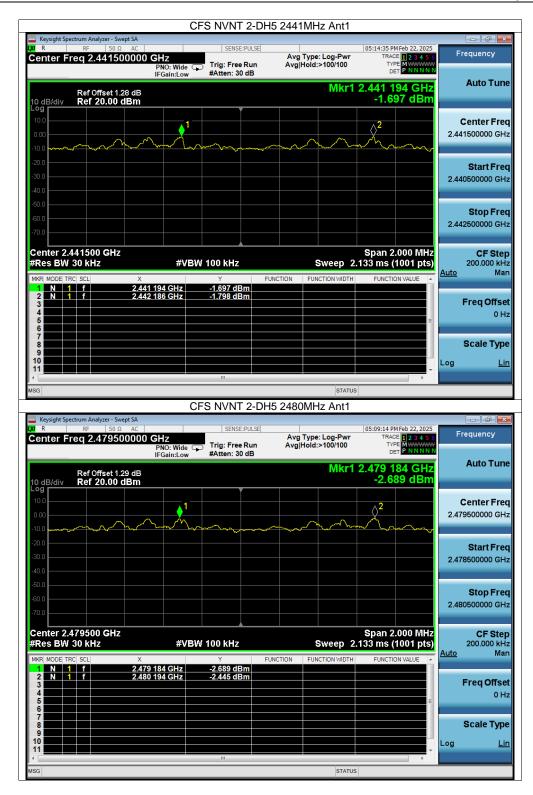


Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.018	2403.09	1.072	0.693	Pass
NVNT	1-DH5	Ant1	2441.004	2442.04	1.036	0.693	Pass
NVNT	1-DH5	Ant1	2479.01	2480.02	1.01	0.693	Pass
NVNT	2-DH5	Ant1	2402.02	2403.024	1.004	0.887	Pass
NVNT	2-DH5	Ant1	2441.194	2442.186	0.992	0.88	Pass
NVNT	2-DH5	Ant1	2479.184	2480.194	1.01	0.893	Pass

Carrier Frequencies Separation

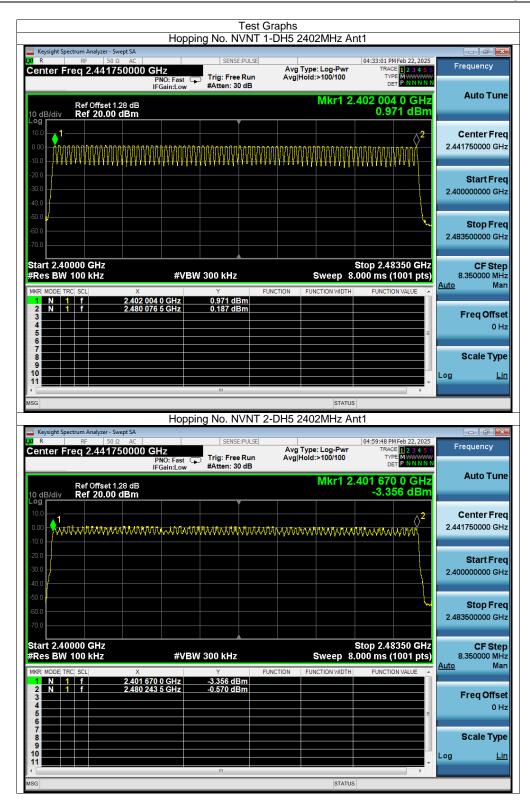






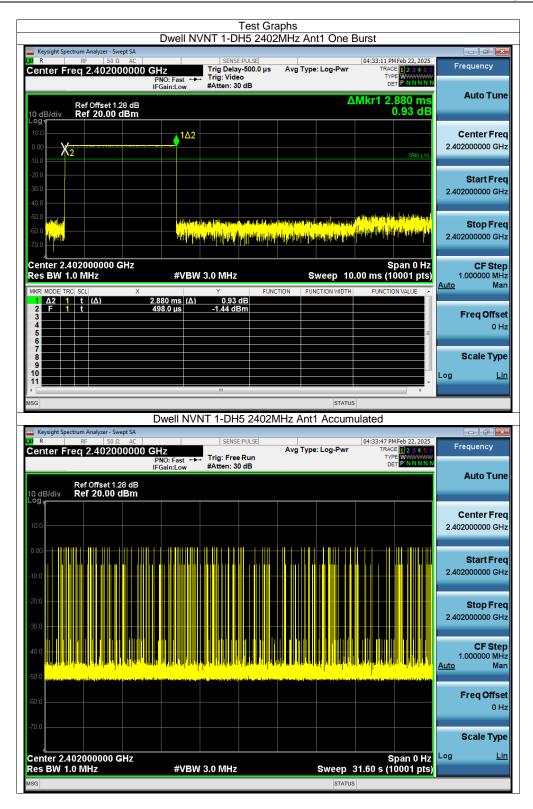
Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass



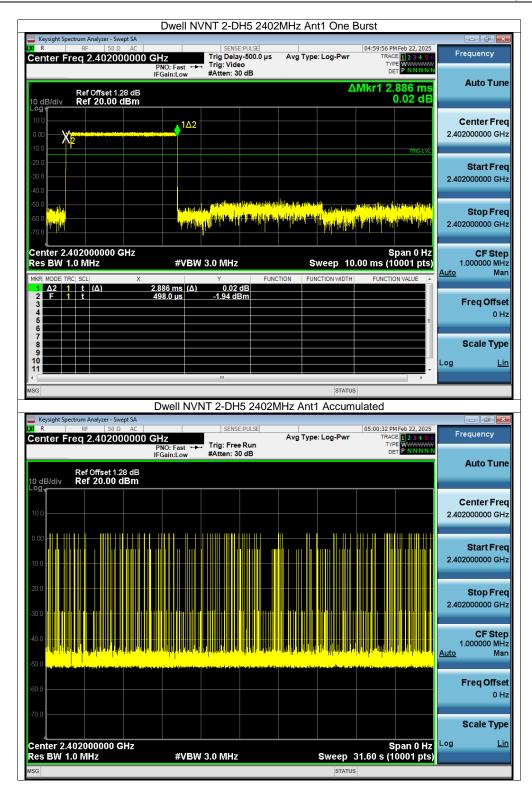
Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1- DH5	2402	Ant1	2.88	328.32	114	31600	400	Pass
NVNT	1- DH5	2441	Ant1	2.88	290.88	101	31600	400	Pass
NVNT	1- DH5	2480	Ant1	2.88	313.92	109	31600	400	Pass
NVNT	2- DH5	2402	Ant1	2.886	314.574	109	31600	400	Pass
NVNT	2- DH5	2441	Ant1	2.886	308.802	107	31600	400	Pass
NVNT	2- DH5	2480	Ant1	2.886	323.232	112	31600	400	Pass



	Dwell NVNT 1-DH5 24	441MHz Ant1 One Burs	st	
Keysight Spectrum Analyzer - Swept SA R R S0 Ω AC Center Freq 2.44100000	PNO: Fast + Trig: Video		38:22 PM Feb 22, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N N	Frequency
Ref Offset 1.28 dE 10 dB/div Ref 20.00 dBm Log ¶	IFGain:Low #Atten: 30 dB	ΔMk	r1 2.880 ms 3.67 dB	Auto Tun
10.0 0.00 X2	1Δ2		TRIG LVL	Center Fre 2.441000000 GH
-10.0				Start Fre 2.441000000 GH
-50.0 768/78 -60.0 148/31/1	dan ya shi y Ta farqi ba ga ya shi ya sh		antennek Histornen of Herenis ¹² . Helpinologi	Stop Fre 2.441000000 GH
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↓	111	STATUS	•	
	Dwell NVNT 1-DH5 244		ed	
Keysight Spectrum Analyzer - Swept SA XI R RF 50 Ω AC	SENSE:PULSE	04	:38:58 PM Feb 22, 2025	
Center Freq 2.44100000		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWWW DET PNNNN	Frequency
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0.00				Start Fre 2.441000000 G⊦
-20.0				Stop Fre 2.441000000 GF
				CF Ste 1.000000 M⊦ ito Ma
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	a da a barra composa da a barra da <mark>na tanang a da barra, ita da ang a</mark>	1Δ2			TRIG LVL	2.480000000 GI
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10						Log <u>L</u>
SG				STATUS		
Keysight Spectrum Analyzer -		II NVNT 1-DH	5 2480MHz /	Ant1 Accumu	lated	
R RF 50 Center Freq 2.480	Ω AC			Type: Log-Pwr	04:43:12 PM Feb 22, 2025 TRACE 1 2 3 4 5 6	Frequency
	PNO: F IFGain:	ast Trig: Free Low #Atten: 3			TYPE WWWWW DET PNNNNN	Auto Tui
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						Start Fr 2.48000000 G
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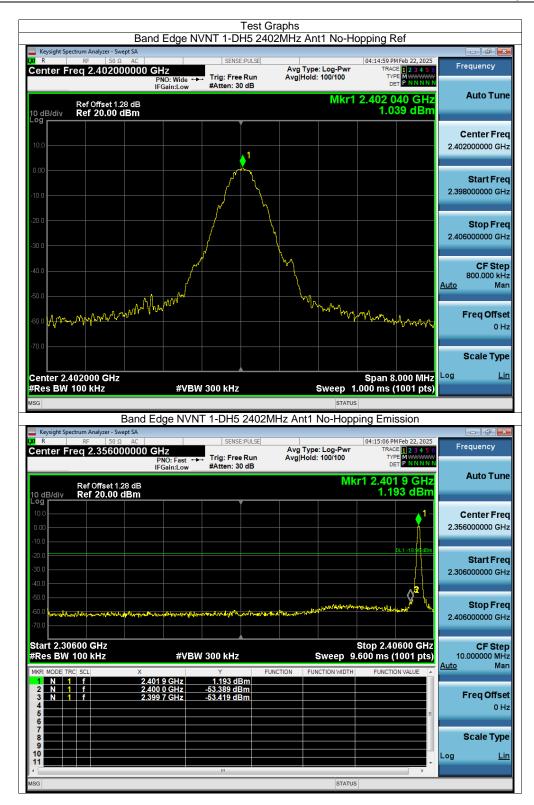


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Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated Avgright Spectrum Analyzer - Swept SA SENSE-PULSE Nog Type: Log-Pwr TRACE Frequenc Center Freq 2.441000000 GHZ Prof. Fast +					
Keysight Spectrum Analyzer - Swept SA SENSE:PULSE 05:05:47 PMFeb 22.2025 Frequence Center Freq 2.441000000 GHz PRO: Fast IFGaintLow Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr TRACE D2: 45 STORED TO TRACE D2: 45 STORED TO DET Auto 1 0 dB/div Ref Offset 1.28 dB Center Center Center 2.441000000 0.00 B Center Center 2.441000000 Center 0.00 B Center 2.441000000 Center 2.441000000 0.00 B B B B Center 2.441000000 0.00 B B B B B B B Center 2.441000000 0.00 B B B B B B B B B B Center Center Center Center Center Ce	SG	Dwell N\/NT 2-DH5 244		ilated	
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Keysight Spectrum Analyzer	-	IVNT 2-DH5 24	80MHz Ant1 One E	Burst	- 0
	50 Ω AC 0000000 GHz PNO: Fast ←	SENSE:PULSE Trig Delay-500.0 µ → Trig: Video	is Avg Type: Log-Pwr	05:09:23 PM Feb 22, 2025 TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P N N N N N	Frequency
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5 6 7					Reals To
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11 <u> </u>		III			
ISG	Dwell N\	/NT 2-DH5 248	OMHz Ant1 Accum		
Keysight Spectrum Analyzer	r - Swept SA 50 Ω AC	SENSE:PULSE		05:09:59 PM Feb 22, 2025	
Center Freq 2.48	0000000 GHz PNO: Fast ← IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWW DET P N N N N N	Frequency
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		W 3.0 MHz		Span 0 Hz 31.60 s (10001 pts)	2.48000000 Gi CF Ste 1.000000 Mi Auto Freq Offs

Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.43	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-55.86	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.01	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.46	-20	Pass



Keysight Spectrum Analyzer - Swe	ept SA	<u> </u>	NT 1-DH5 24				
R RF 50 Ω Center Freq 2.48000	0000 GHz):Wide 🕶	SENSE:PULSE	Avg Type: Lo Avg Hold: 100	g-Pwr TR	PM Feb 22, 2025 ACE 1 2 3 4 5 6 YPE M WWWWWW DET P N N N N N	Frequency
		ain:Low	#Atten: 30 dB				Auto Tu
Ref Offset 1.2 0 dB/div Ref 20.00 d					Mkr1 2.480 -0.0	032 GHZ 030 dBm	
							Center Fr
10.0							2.480000000 G
0.00			¹				
			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Start Fr
10.0			-/				2.476000000 G
				ν <b>γ</b>			
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Res DW TOURNZ		#VBW	300 kHz	Swe	eep 1.000 ms	(1001 pts)	
SG		#VBW	300 kHz	Swe	status	(1001 pts)	
sg	ž			Swo MHz Ant1 No	STATUS		
SG	ept SA				-Hopping Em	NISSION PM Feb 22, 2025	
SG E Keysight Spectrum Analyzer - Swe	AC 00000 GHz	e NVNT	1-DH5 2480	MHz Ant1 No-	-Hopping Em 04:22:51	NISSION PM Feb 22, 2025	Frequency
SG E Keysight Spectrum Analyzer - Swe R RF 50 Ω	Ept SA AC 10000 GHz PN0	e NVNT	1-DH5 2480	MHz Ant1 No	STATUS -Hopping Em 04:22:51 g-Pwr TR 100 T	NFeb 22, 2025 ACE 1 2 3 4 5 6 YPE MWWWWW DET P N N N N N	Frequency
sg E Keysight Spectrum Analyzer - Swe R RF S0 Q Center Freq 2.52600 Ref Offset 1.2	ept SA AC 100000 GH2 PN0 IFG2 29 dB	le NVNT Z D: Fast ↔→→	1-DH5 2480	MHz Ant1 No-	STATUS -Hopping Em 04:22:51 g-Pwr TR 1/100 T	MISSION PM Feb 22, 2025 ACE 1 2 3 4 5 6 YPE MWWWW DET P NNNNN 9 9 GHZ	Frequency
SG Keysight Spectrum Analyzer - Swe R RF 50 Ω Center Freq 2.52600	ept SA AC 100000 GH2 PN0 IFG2 29 dB	le NVNT Z D: Fast ↔→→	1-DH5 2480	MHz Ant1 No-	STATUS -Hopping Em 04:22:51 g-Pwr TR 1/100 T	NFeb 22, 2025 ACE 1 2 3 4 5 6 YPE MWWWWW DET P N N N N N	Frequency
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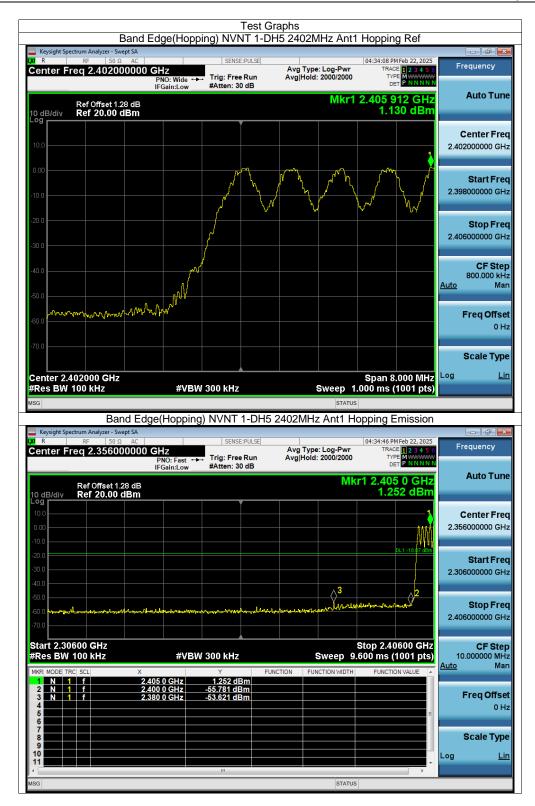
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Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.75	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-54.56	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.81	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.28	-20	Pass

# **Band Edge(Hopping)**



- F	Mr	04.42.22.2		cel			ctrum Analyzer - Swept SA
Frequency	PM Feb 22, 2025 CE 1 2 3 4 5 6 (PE M WWWWWW DET P N N N N N	TRAC	e: Log-Pwr I: 2000/2000	Avg n Avg	Trig: Free R #Atten: 30 d	00 GHz PNO: Wide ↔	RF 50 Ω AC eq 2.48000000
Auto Tu	928 GHz 17 dBm	2.477 9	Mkr1	,	#Atten: 30 C	IFGain:Low	Ref Offset 1.29 dB Ref 20.00 dBm
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2.480000000 G						<u></u> 1	
Start Fr					(	M N	m J
2.476000000 G				ly how here and here		· \//	
Stop Fr 2.484000000 G							
CF St 800.000 P				- Vy			
Auto N			ĥ				
Freq Off	nnn	Manna	million				
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Scale Ty							
Log	8.000 MHz						
	(TUUT DIS)				000 1.11-		80000 GHz
	, ,	· · · · · · · · · · · · · · · · · · ·	Sweep 1		/ 300 kHz	#VB\	80000 GHZ 100 kHz
			STATUS	DH5 2480		#VBV Edge(Hoppin	100 kHz
	Emission	opping E	STATUS		)) NVNT 1	Edge(Hoppin	100 kHz Band E ctrum Analyzer - Swept SA
Frequency	Emission MFeb 22, 2025	Opping E 04:44:11 PP	STATUS	.SE Avg n Avg	) NVNT 1 SENSE:P	Edge(Hoppin	100 kHz Band E
Frequency	Emission PM Feb 22, 2025 CE 1 2 3 4 5 6 PPE MWWWWW NN NN N	Opping E 04:44:11 PI TRAC TYF DE	STATUS Z Ant1 H e: Log-Pwr I: 2000/2000	.SE Avg n Avg	) NVNT 1	Edge(Hoppin	100 kHz Band E ctrum Analyzer - Swept SA RF 50 Ω AC
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Frequency Auto Tu Center Fi	Emission PM Feb 22, 2025 ICE 1 2 3 4 5 6 IPE MWWWWW ET P NNNNN 7 0 GHZ	00000000000000000000000000000000000000	STATUS Z Ant1 H e: Log-Pwr I: 2000/2000	.SE Avg n Avg	) NVNT 1 SENSE:P	Edge(Hoppin c 00 GHz PNO: Fast IFGain:Low	100 kHz Band E ctrum Analyzer - Swept SA RF   50 Ω AC eq 2.52600000 Ref Offset 1.29 dB
Frequency Auto Tu Center Fi	Emission PM Feb 22, 2025 ICE 1 2 3 4 5 6 IPE MWWWWW ET P NNNNN 7 0 GHZ	00000000000000000000000000000000000000	STATUS Z Ant1 H e: Log-Pwr I: 2000/2000	.SE Avg n Avg	) NVNT 1 SENSE:P	Edge(Hoppin c 00 GHz PNO: Fast IFGain:Low	100 kHz Band E ctrum Analyzer - Swept SA RF   50 Ω AC eq 2.52600000 Ref Offset 1.29 dB
Frequency Auto Tu Center Fr 2.526000000 G	Emission PM Feb 22, 2025 ICE 1 2 3 4 5 6 IPE MWWWWW ET P NNNNN 7 0 GHZ	00000000000000000000000000000000000000	STATUS Z Ant1 H e: Log-Pwr I: 2000/2000	.SE Avg n Avg	) NVNT 1 SENSE:P	Edge(Hoppin c 00 GHz PNO: Fast IFGain:Low	100 kHz Band E ctrum Analyzer - Swept SA RF   50 Ω AC eq 2.52600000 Ref Offset 1.29 dB
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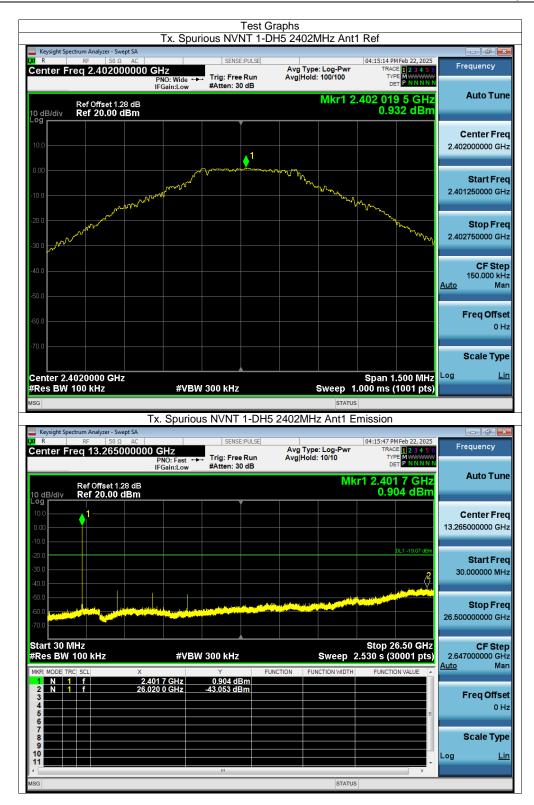
Keysight Spectrum Analyzer - Swept SA			H5 2402MHz Ant1		
R RF 50 Ω AC enter Freq 2.40200000		SENSE:PULSE	Avg Type: Log-Pwr	05:00:56 PM Feb 22, 2025 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide ++- IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 2000/2000	TYPE MWWWWW DET PNNNNN	Auto 7
Ref Offset 1.28 dB 0 dB/div Ref 20.00 dBm			Mkr1	2.405 200 GHz 1.111 dBm	Auto Tu
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enter 2.402000 GHz		<b>_</b>		Span 8.000 MHz	Log
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SG			STATUS		
sa Band Ed			, •,		
SG Band Ed Keysight Spectrum Analyzer - Swept SA R RF 50 Ω AC	dge(Hopping	) NVNT 2-DH5	STATUS 2402MHz Ant1 Hc Avg Type: Log-Pwr	05:01:33 PM Feb 22, 2025	Frequency
SG Band Ed Keysight Spectrum Analyzer - Swept SA R RF 50 Ω AC	dge(Hopping	) NVNT 2-DH5	STATUS 2402MHz Ant1 Hc	opping Emission	Frequency
SG Band Ed Keysight Spectrum Analyzer - Swept SA R RF 50 Ω AC Center Freq 2.356000000	dge(Hopping 0 GHz PN0: Fast ↔	) NVNT 2-DH5   SENSE:PULSE - Trig: Free Run	STATUS 2402MHz Ant1 Ho Avg Type: Log-Pwr Avg Hold: 2000/2000	Depping Emission 05:01:33 PMFeb 22, 2025 TRACE D 23 4 5 6 TYPE MWWWW DET PININNN 1 2.402 2 GH2	Frequency
Band Ec Keysight Spectrum Analyzer - Swept SA R RF 500 AC Center Freq 2.356000000 Ref Offset 1.28 dB 0 dB/div Ref 20.00 dBm	dge(Hopping 0 GHz PN0: Fast ↔	) NVNT 2-DH5   SENSE:PULSE - Trig: Free Run	STATUS 2402MHz Ant1 Ho Avg Type: Log-Pwr Avg Hold: 2000/2000	Depping Emission 05:01:33 PM Feb 22, 2025 TRACE 23 4 5 6 TYPE MUMANNA DET PINNNN	Frequency
R         R         SG           R         RF         JSO         AC           Center Freq 2.356000000         Ref Offset 1.28 dB         Ref 20.00 dBm           0 dB/div         Ref 20.00 dBm         Ref 20.00 dBm	dge(Hopping 0 GHz PN0: Fast ↔	) NVNT 2-DH5   SENSE:PULSE - Trig: Free Run	STATUS 2402MHz Ant1 Ho Avg Type: Log-Pwr Avg Hold: 2000/2000	Depping Emission 05:01:33 PMFeb 22, 2025 TRACE D 23 4 5 6 TYPE MWWWW DET PININNN 1 2.402 2 GH2	Frequency Auto Tu Center Fr
SG         Band Ed           Keysight Spectrum Analyzer - Swept SA         R           R         RF         JS Og Ac           Center Freq 2.356000000         Ref Offset 1.28 dB           O dB/div         Ref 20.00 dBm           0 g         0	dge(Hopping 0 GHz PN0: Fast ↔	) NVNT 2-DH5   SENSE:PULSE - Trig: Free Run	STATUS 2402MHz Ant1 Ho Avg Type: Log-Pwr Avg Hold: 2000/2000	Depping Emission 105:01:33 PMFeb 22, 2025 TRACE 23 4 5 C TYPE PNNNNN 11 2.402 2 GHz 1.161 dBm	Frequency Auto Tu Center Fr
SG           Band Ec           Keysight Spectrum Analyzer - Swept SA           R         RF         JSO AC           Center Freq 2.356000000           Ref Offset 1.28 dB           O dB/div         Ref 20.00 dBm           Og         Action and action action and action acti	dge(Hopping 0 GHz PN0: Fast ↔	) NVNT 2-DH5   SENSE:PULSE - Trig: Free Run	STATUS 2402MHz Ant1 Ho Avg Type: Log-Pwr Avg Hold: 2000/2000	Depping Emission 05:01:33 PMFeb 22, 2025 TRACE D 23 4 5 6 TYPE MWWWW DET PININNN 1 2.402 2 GH2	Frequency Auto Tu Center Fr 2.356000000 G
SG Band Ec Keysight Spectrum Analyzer - Swept SA R RF 50 Ω AC Center Freq 2.356000000 Ref Offset 1.28 dB 0 dB/div Ref 20.00 dBm 0 00 0	dge(Hopping 0 GHz PN0: Fast ↔	) NVNT 2-DH5   SENSE:PULSE - Trig: Free Run	STATUS 2402MHz Ant1 Ho Avg Type: Log-Pwr Avg Hold: 2000/2000	Depping Emission 105:01:33 PMFeb 22, 2025 TRACE 23 4 5 C TYPE PNNNNN 11 2.402 2 GHz 1.161 dBm	Frequency Auto Tu Center Fr 2.356000000 G Start Fr
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SG Band Ed Keysight Spectrum Analyzer - Swept SA R	dge(Hopping D GHz PNO: Fast IFGain:Low → #VBW 2.402 2 GHz 2.400 2 GHz	) NVNT 2-DH5	STATUS 2402MHz Ant1 Hc Avg Type: Log-Pwr Avg Hold: 2000/2000 Mkt	Depping Emission TRACE 23 4 5 6 TRACE 24 5 6	Frequency Auto Tu Center Fr 2.356000000 G Start Fr 2.306000000 G Stop Fr 2.406000000 G CF St 10.00000 M Auto M
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Keysight Spectrum Analyzer - Sv			OTHER DUILOR			05.15.10.5	15-h 00 0005		j ¢
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Bal Keysight Spectrum Analyzer - Sv R RF 50 S	vept SA 2 AC		SENSE:PULSE	2480MHz Avg Type:	STATUS Ant1 Ho Log-Pwr	Opping E	mission	Frequ	
Bal Keysight Spectrum Analyzer - Sv R RF 50 S	vept SA 2 AC 00000 GH PI		•	5 2480MHz	STATUS Ant1 Ho Log-Pwr	Opping E	mission	Frequ	ency
Bai Keysight Spectrum Analyzer - Sw R RF 50 S enter Freq 2.5260 Ref Offset 1.	vept SA 2 AC 000000 GH PI IF( 29 dB	IZ NO: Fast ↔	SENSE:PULSE	2480MHz Avg Type:	STATUS Ant1 Ho Log-Pwr 2000/2000	05:15:51 PN TRAC TYP DE	IFeb 22, 2025 E 12 23 4 5 6 E MWWWWW P NNNN B 9 GHz	Frequ	ency
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Bai	vept SA 2 AC 00000 GH PI IFC 29 dB dBm	IZ NO: Fast ↔	SENSE:PULSE	2480MHz Avg Type: Avg Hold: 2	STATUS	05:15:51 PM TRAC TYP DE <b>r1 2.478</b> 0.00	Heb 22, 2025 ■ 2 2 3 4 5 6 ■ 2 3 4 5 6 ■ 1 2 3 4 5 6 ■ 1 2 3 4 5 6 ■ 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Frequ Au 2.526000 St 2.476000	ency to Tu ter Fi 0000 c art Fi 0000 c
Bai	vept SA 2 AC 00000 GH PI IFC 29 dB dBm	IZ NO: Fast ↔ Gain:Low	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	opping E المحالي TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission           Ifeb 22, 2025	Frequ Au 2.526000 St 2.476000 St 2.576000	ency to TL ter Fl 0000 c art Fl 0000 c
Bai	Vept SA 2 AC 000000 GH PI IFC 29 dB dBm 3 www.www.www.www.www.www.www.www.www.ww	IZ NO: Fast ↔ Gain:Low	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission           Ifeb 22, 2025	Frequ Au 2.526000 St 2.476000 St 2.576000	ency to TL ter Fl 0000 c art Fl 0000 c CF St 0000 N
Bai	xept SA 2 AC 00000 GH PI IF 29 dB dBm 3 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	Iz NO: Fast ↔ Gain:Low #VBW	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission           Ifeb 22, 2025	Frequ Au 2.526000 St 2.476000 St 2.576000	ency to TL ter Fl 0000 c art Fl 0000 c CF St 0000 N
Bai	xept SA 2 AC 000000 GH PI IFC 29 dB dBm 3 4 2.478 2.478 2.478	Iz N0: Fast ↔ Gain:Low #VBM	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission           Ifeb 22, 2025	Frequ Au 2.526000 St 2.476000 St 2.576000 Auto	ency to TL ter F1 0000 c art F1 0000 c CF S1 0000 N
Bai	xept SA 2 AC 000000 GH PI IFC 29 dB dBm 3 4 2.478 2.478 2.478	Iz NO: Fast ↔ Sain:Low #VBW	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission           Ifeb 22, 2025	Frequ Au 2.526000 St 2.476000 St 2.576000 Auto	ency to TL ter Fi 0000 C art Fi 0000 C CF Si 0000 N N
Bai	xept SA 2 AC 000000 GH PI IFC 29 dB dBm 3 4 2.478 2.478 2.478	Iz NO: Fast ↔ Sain:Low #VBW	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission         If the 22, 2025         If 23 4 5 6         If 23 4 5 6         If 24 5 6         If 24 5 6         If 24 5 6         If 25 6         If 24 5 6	Frequ Au 2.526000 St 2.476000 St 2.576000 Auto	ency to TL ter Fl 0000 c art Fl 0000 c CF St 0000 N N 9 9 9 9 9
Bai	xept SA 2 AC 000000 GH PI IFC 29 dB dBm 3 4 2.478 2.478 2.478	Iz NO: Fast ↔ Sain:Low #VBW	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission         If the 22, 2025         If 23 4 5 6         If 23 4 5 6         If 24 5 6         If 24 5 6         If 24 5 6         If 25 6         If 24 5 6	Frequ Au 2.526000 St 2.476000 St 2.576000 Auto	ency to TL ter Fl 0000 c art Fl 0000 c CF St 0000 N N 9 9 9 9 9
Keysight Spectrum Analyzer - Sv           R         RF         S0 £           Center Freq 2.52600         Ref Offset 1.         Odd State           0 dB/div         Ref 20.00         Ref 20.00 <thref 20.00<="" th="">         Ref 20.00</thref>	xept SA 2 AC 000000 GH PI IFC 29 dB dBm 3 4 2.478 2.478 2.478	Iz NO: Fast ↔ Sain:Low #VBW	SENSE:PULSE	5 2480MHz Avg Type: Avg Hold: 2	STATUS Ant1 He Log-Pwr 2000/2000 Mk	Depping E 05:15:51 PM TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	Imission         If the 22, 2025         If 23 4 5 6         If 23 4 5 6         If 24 5 6         If 24 5 6         If 24 5 6         If 25 6         If 24 5 6	Frequ Au 2.526000 St 2.476000 St 2.576000 Auto	to Tu ter Fi 2000 G art Fr 2000 G

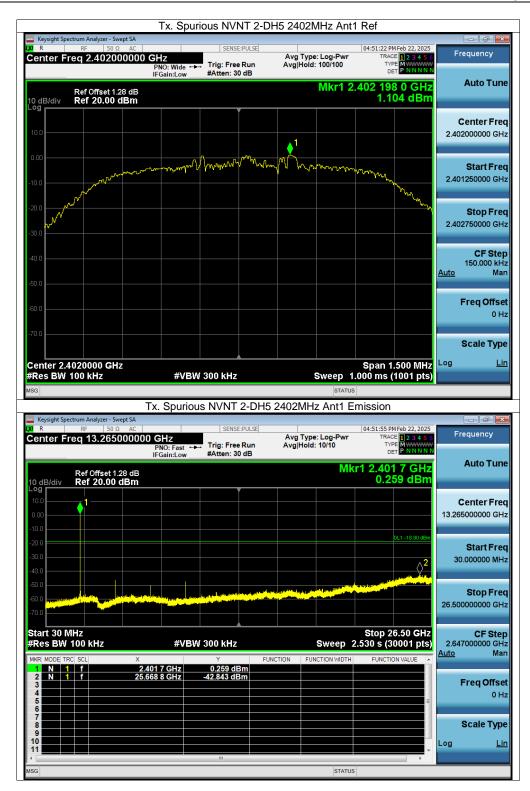
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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-43.98	-20	Pass
NVNT	1-DH5	2441	Ant1	-43.85	-20	Pass
NVNT	1-DH5	2480	Ant1	-42.91	-20	Pass
NVNT	2-DH5	2402	Ant1	-43.94	-20	Pass
NVNT	2-DH5	2441	Ant1	-43.52	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.04	-20	Pass

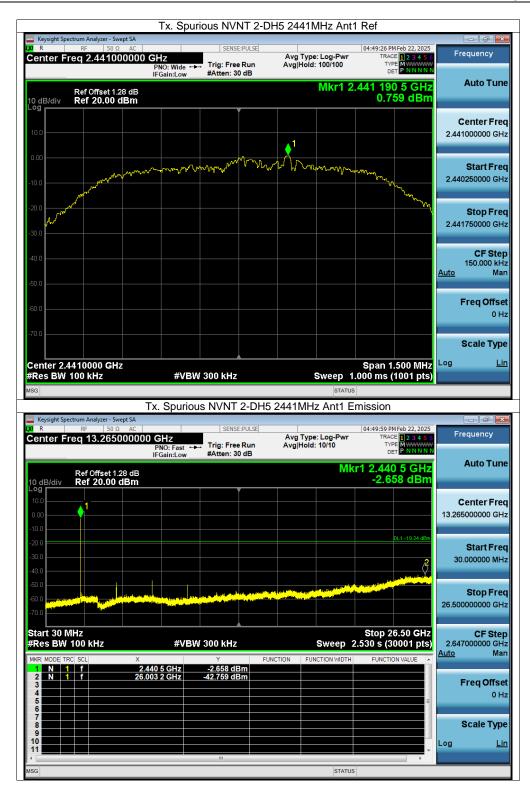
## **Conducted RF Spurious Emission**

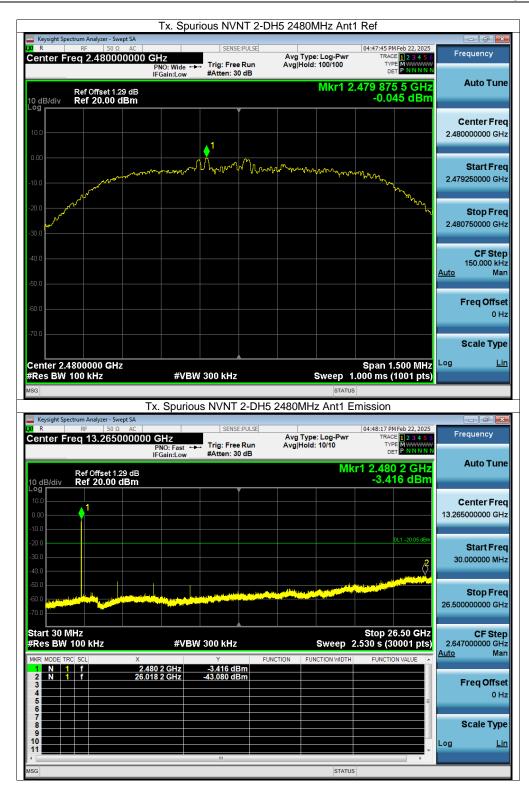


R	ectrum Analyzer - Swe RF 50 Ω	AC		SENSE:	PULSE				4 Feb 22, 2025	Frequency
enter F	req 2.44100	PI	Z NO: Wide ↔ Gain:Low	Trig: Free # #Atten: 30		Avg Typ Avg Hold	e: Log-Pwr I: 100/100	TRAC TYF DE	E 1 2 3 4 5 6 E M WWWWW F P N N N N N	Trequency
0 dB/div	Ref Offset 1.2 Ref 20.00 d						Mkr1 2		3 0 GHz 02 dBm	Auto Tu
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30.0									b	
40.0 <b></b>										CF St 150.000 I <u>Auto</u> M
50.0										Freq Off
70.0										
										Scale Ty
				A						
	4410000 GHz 100 kHz		#VBV	V 300 kHz			Sweep 1	Span 1 .000 ms (	.500 MHz 1001 pts)	Log
Res BW			#VBV	V 300 kHz			Sweep 1	.000 ms (	.500 MHz 1001 pts)	Log
Res BW	100 kHz	Tx.		V 300 kHz Js NVNT 1	1-DH5 2		STATUS	.000 ms (	.500 MHz 1001 pts)	
Res BW SG Keysight Spe R	100 kHz ectrum Analyzer - Swe RF 50 Ω	Tx.	Spuriou	JS NVNT 1	PULSE	2441MH Avg Type	status Iz Ant1 E e: Log-Pwr	.000 ms ( mission 04:21:28 Pf TRAC	1001 pts)	Log Frequency
Res BW SG Keysight Spe	100 kHz ectrum Analyzer - Swe	Tx. pt SA AC 00000 C	Spuriou	JS NVNT 1	PULSE	2441MH	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 PI TRAC TYF DE	1001 pts)	Frequency
Res BW sg Keysight Spe R enter Fi 0 dB/div	100 kHz ectrum Analyzer - Swe RF 50 Ω	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts)	
Keysight Spe Keysight Spe R Center Fi O dB/div - og 10.0	100 kHz ectrum Analyzer - Swe RF 50 Ω req 13.2650 Ref Offset 1.2	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts) ^{и Feb 22, 2025} ^E 1 2 3 4 5 6 ^E MWWWWW ET P N N N N <b>4 GHz</b>	Frequency Auto Tu Center F
Res BW sg keysight Speg R Center Fi	100 kHz ectrum Analyzer - Swe RF 50 Ω req 13.2650 Ref Offset 1.2	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts) 4Feb 22, 2025 FE 0 2 3 4 5 6 MMMMM FT PNNNN FT PNNNNN 4 GHz 45 dBm	Frequency Auto Tu
Res BW           sc           Keysight Space           R           Center Fi           10.0           000           10.0           000           10.0           000           10.0           000           10.0	100 kHz ectrum Analyzer - Swe RF 50 Ω req 13.2650 Ref Offset 1.2	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts) ^{и Feb 22, 2025} ^E 1 2 3 4 5 6 ^E MWWWWW ET P N N N N <b>4 GHz</b>	Frequency Auto Tu Center Fi 13.26500000 0 Start Fi
Res BW           sa           Keysight Space           R           Center Fi           0 dB/div           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0           0 0	100 kHz ectrum Analyzer - Swe RF 50 Ω req 13.2650 Ref Offset 1.2	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts) 4Feb 22, 2025 FE 0 2 3 4 5 6 MMMMM FT PNNNN FT PNNNNN 4 GHz 45 dBm	Frequency Auto Tu Center Fr 13.265000000 0
Resset         BW           SG         SG           SG         SG           Center Fr         SG           Conter         SG           <	100 kHz ectrum Analyzer - Swe RF 50 Ω req 13.2650 Ref Offset 1.2	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts) Heb 22, 2025 E 1 2 3 4 5 6 E MWWWWW T NNNN I 4 GHz 45 dBm 0.1 -19 50 dBm	Frequency Auto Tu Center Fr 13.265000000 0 Start Fr 30.000000 N Stop Fr
Resset         BW           SG         SG           SG         SG           Center Fr         SG           Center Fr         SG           Code/div	100 kHz ectrum Analyzer - Swe RF 50 Ω req 13.2650 Ref Offset 1.2	Tx. AC 000000 G P IF 8 dB	Spuriou Hz NO: Fast ↔	JS NVNT 1	PULSE	2441MH Avg Type	STATUS IZ Ant1 E e: Log-Pwr I: 10/10	.000 ms ( mission 04:21:28 Pf TRAC TYF DE	1001 pts) Heb 22, 2025 E 1 2 3 4 5 6 E MWWWWW T NNNN I 4 GHz 45 dBm 0.1 -19 50 dBm	Frequency Auto Tu Center Fr 13.265000000 C Start Fr 30.000000 N
Res BW           SG           SG           Keysight Spectra           R           Center F           Contract           Contract           Contract           Contract           Contract           Contract           Contract           Contract           Contract	100 kHz ectrum Analyzer - Swe RF   50 Q req 13.2650 Ref Offset 1.2 Ref 20.00 c 1 1 1 1 1 1 1 1 1 1 1 1 1	Tx. pt SA AC P P IFI 8 dB Bm	Spuriou	JS NVNT 1	PULSE	441MH Avg Typ Avg Hold	Sweep 2	000 ms ( mission 04:21:28 Pf TYP 0 FT 2.44 -0.4	1001 pts)	Frequency Auto Tu Center Fr 13.265000000 0 Start Fr 30.000000 N Stop Fr
Res BW           SG           Keysight Spectrum           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q           Q	100 kHz  ctrum Analyzer - Swe  Ref 0ffset 1.2  Ref 20.00 c  1  Altz 100 kHz  C SCL  f	Tx. ptSA AC P P IFI 8 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4	Spuriou Hz Gain:Low #VBV #VBV	JS NVNT 1 SENSE: Trig: Free I #Atten: 30	PULSE	441MH Avg Typ Avg Hold	STATUS	000 ms ( mission 04:21:28 Pf TYP 0 FT 2.44 -0.4	1001 pts)	Frequency           Auto Tu           Center Fi           13.265000000 0           Start Fi           30.00000 N           Stop Fi           26.50000000 0           CF St           2.647000000 0
Ress         BW           SG	100 kHz  ctrum Analyzer - Swe  Ref 0ffset 1.2  Ref 20.00 c  1  Altz 100 kHz  C SCL  f	Tx. ptSA AC 000000 C P IFI 8 dB Bm	Spuriou Hz Gain:Low #VBV #VBV	JS NVNT 1 SENSE: Trig: Free #Atten: 30	PULSE	441MH Avg Typ Avg Hold	Sweep 2	000 ms ( mission 04:21:28 Pf TYP 0 FT 2.44 -0.4	1001 pts)	Frequency           Auto Tu           Center Fi           13.265000000 M           Start Fi           30.00000 M           Stop Fi           26.50000000 C           CF St           2.647000000 C
Res BW           SG           Content of the second s	100 kHz  ctrum Analyzer - Swe  Ref 0ffset 1.2  Ref 20.00 c  1  Altz 100 kHz  C SCL  f	Tx. ptSA AC P P IFI 8 dB Bm 4 4 4 4 4 4 4 4 4 4 4 4 4	Spuriou Hz Gain:Low #VBV #VBV	JS NVNT 1 SENSE: Trig: Free I #Atten: 30	PULSE	441MH Avg Typ Avg Hold	Sweep 2	000 ms ( mission 04:21:28 Pf TYP 0 FT 2.44 -0.4	1001 pts)	Frequency           Auto Tu           Center Fi           13.265000000 0           Start Fi           30.00000 N           Stop Fi           26.50000000 0           Cer St           2.647000000 0           Auto N           Freq Off

Keysight Spectrum Analyzer - S							
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Keysight Spectrum Analyzer - S R RF 50 :	Swept SA Ω AC 5000000 0	GHz	IS NVNT 1-DH	5 2480MHz Ant Avg Type: Log-P	1 Emission	PM Feb 22, 2025	Frequency
Keysight Spectrum Analyzer - S R RF 50 :	Swept SA Ω AC 5000000 C P	•	IS NVNT 1-DH	5 2480MHz Ant Avg Type: Log-P Avg Hold: 10/10	TATUS 1 Emission 04:23:32 F Wr TRA TY D	M Feb 22, 2025 CE 1 2 3 4 5 6 PE MWWWW ET P N N N N	Frequency
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Keysight Spectrum Analyzer - S           Ref Offset 1           Ref Offset 1           O dB/div           O dB/div <tr< td=""><td>Swept SA Ω AC 50000000 G P I.29 dB 0 dBm 0 dB</td><td>GHz NO: Fast → Gain:Low #VBW</td><td>IS NVNT 1-DHS</td><td>5 2480MHz Ant Avg Type: Log-P Avg Hold: 10/10</td><td>1 Emission 04:23:32 F Wr TRA -0.6 Mkr1 2.48 -0.6 Stop 2 2.530 s (3)</td><td>MFeb 22, 2025 CF 11 2 3 4 5 6 M MANN N 0 2 GHz 66 dBm 0L1 -19 91 dBm 0L1 -19 91 dBm 02 GHz 26.50 GHz 200001 pts</td><td>Auto Tu Center F 13.265000000 0 Start F 30.000000 0 Stop F 26.500000000 0 CF S 2.647000000 0</td></tr<>	Swept SA Ω AC 50000000 G P I.29 dB 0 dBm 0 dB	GHz NO: Fast → Gain:Low #VBW	IS NVNT 1-DHS	5 2480MHz Ant Avg Type: Log-P Avg Hold: 10/10	1 Emission 04:23:32 F Wr TRA -0.6 Mkr1 2.48 -0.6 Stop 2 2.530 s (3)	MFeb 22, 2025 CF 11 2 3 4 5 6 M MANN N 0 2 GHz 66 dBm 0L1 -19 91 dBm 0L1 -19 91 dBm 02 GHz 26.50 GHz 200001 pts	Auto Tu Center F 13.265000000 0 Start F 30.000000 0 Stop F 26.500000000 0 CF S 2.647000000 0







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