

TEST REPORT

Application No.: SUCR2407000251MO
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi & Bluetooth Module
Model No.: AF67E
Trade Mark: Quectel
FCC ID: XMR202406AF67E
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart E
Date of Receipt: July 12, 2024
Date of Test: July 15, 2024 to August 28, 2024
Date of Issue: September 11, 2024

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Prepared by: Nature Shen/ Project Manager

Approved by: Cloud Peng/ Technical Manager

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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Version

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		September 11, 2024		Original

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1 Test Summary

Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
Antenna Requirement	--	15.203/15.407(a)	--	Clause 3.1	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207	---	Clause 3.2	PASS
26dB Emission Bandwidth	Band I	15.407(a)(1)	No limit.	Clause 3.5	For Report Purpose
	Band II-A	15.407(a)(2)			
	Band II-C	15.407(a)(2)			
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 3.6	PASS
99% Occupied Bandwidth	Band I	KDB 789033 D02§ D	No limit.	Clause 3.7	For Report Purpose
	Band II-A				
	Band II-C				
	Band III				
Duty Cycle	Band I Band II-A Band II-C Band III	--	No limit.	Clause 3.3	For Report Purpose
Maximum Conducted Output Power	Band I	15.407(a)(ii)	<1W	Clause 3.4	PASS
	Band II-A	15.407(a)(2)	<MIN{250mW, 11dBm+10*lg(EBW)}		
	Band II-C				
	Band III	15.407(a)(3)	< 1W		
Maximum Power Spectral Density	Band I	15.407(a)(ii)	17dBm/MHz	Clause 3.8	PASS
	Band II-A	15.407(a)(2)	<11dBm/MHz		
	Band II-C				
	Band III	15.407(a)(3)	<30dBm/500KHz		
Radiated Spurious Emissions	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).	Clause 3.9	PASS
	Band II-A	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
	Band II-C	15.407(b)	F<1GHz:		PASS

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Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
		15.205/15.209	<p>§15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).</p>		
	Band III	15.407(b) 15.205/15.209	<p>F<1GHz: §15.209 limit (QP) F≥1GHz & out-restricted:(PK) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).</p>		PASS
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209	---	Clause 3.10	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A
<p>Note 1: Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz</p>					

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2 General Information

2.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, Tizzy Song

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module	
Model No.:	AF67E	
Trade Mark:	Quectel	
Hardware Version:	R1.0	
Software Version:	NA	
Power Supply:	1.8V	
SN:	E1A24EU0R000312	
WLAN Mode Supported:	802.11a:	20 MHz channel bandwidth
	802.11n:	20 MHz / 40 MHz channel bandwidth
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth
	802.11ax:	20 MHz / 40 MHz / 80 MHz channel bandwidth
Operation Frequency:	5150MHz to 5250MHz 5250MHz to 5350MHz 5470MHz to 5725MHz 5725MHz to 5850MHz	
Modulation Type:	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)
	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)
	80MHz:	802.11ac(VHT80)/ax(HE80)
Antenna Type:	External Antenna	
Antenna Gain:	5150MHz to 5250MHz: -0.9dBi (Ant1); -0.9dBi (Ant2); 5250MHz to 5350MHz: -1.4dBi (Ant1); -1.4dBi (Ant2); 5470MHz to 5725MHz: -0.3dBi (Ant1); -0.3dBi (Ant2); 5725MHz to 5850MHz: 0.4dBi (Ant1); 0.4dBi (Ant2);	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
Smart System:	<input type="checkbox"/> SISO	802.11a/n/ac/ax

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	<input checked="" type="checkbox"/> MIMO	TXBF: 802.11n/ac/ax: 2Tx & 2Rx
	<input checked="" type="checkbox"/> Diversity	802.11a: 2Tx & 2Rx
TPC Function:	<input checked="" type="checkbox"/> Support, <input type="checkbox"/> Not Support	
Use Conditions:	Indoor	
RF Cable:	2.0dB	
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		

Remark: In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:		
Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac/ax 80MHz	The Middle channel	5210

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For UNII Band II-A:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac/ax 80MHz	The Middle channel	5290

For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac/ax 80MHz	The Middle channel	5530

For UNII Band III:		
Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac/ax 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac/ax 80MHz	The Middle channel	5775

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Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
Straddle Channel	144 ^[1]	5720	142 ^[2]	5710
	138 ^[3]	5690		
TDWR Channel	120 ^[1]	5600	124 ^[1]	5620
	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	122 ^[3]	5610
	114 ^[4]	5570		

Note:

1. The above Frequency and Channel were 802.11a, 802.11n HT20, 802.11ac VHT20 and 802.11ax HE20.
2. The above Frequency and Channel were 802.11n HT40, 802.11ac VHT40 and 802.11ax HE40.
3. The above Frequency and Channel were 802.11ac VHT80 and 802.11ax HE80.

Remark:

1. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full test to cover partial RU except for PSD/ Duty cycle/BE.

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2.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	1.8
Remark: NV: Normal Voltage NT: Normal Temperature		

2.6 Description of Support Units

The EUT has been tested as an independent unit.

2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11a	/	12 Mbps
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 20)	/	MCS0 (13 Mbps)
802.11ac (VHT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 80)	/	MCS0 (58.5 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)

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3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203
<p>The antenna is Internal Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: -0.9dBi (Ant1); -0.9dBi (Ant2);* 5250MHz to 5350MHz: -1.4dBi (Ant1); -1.4dBi (Ant2);* 5470MHz to 5725MHz: -0.3dBi (Ant1); -0.3dBi (Ant2);* 5725MHz to 5850MHz: 0.4dBi (Ant1); 0.4dBi (Ant2);*</p> <p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	

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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$.
- For power measurements on IEEE 802.11 devices:
 $Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

Operation Frequency	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	-0.9	-0.9	-0.9	2.11	0	0
5250MHz to 5350MHz	-1.4	-1.4	-1.4	1.61	0	0
5470MHz to 5725MHz	-0.3	-0.3	-0.3	2.71	0	0
5725MHz to 5850MHz	0.4	0.4	0.4	3.41	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

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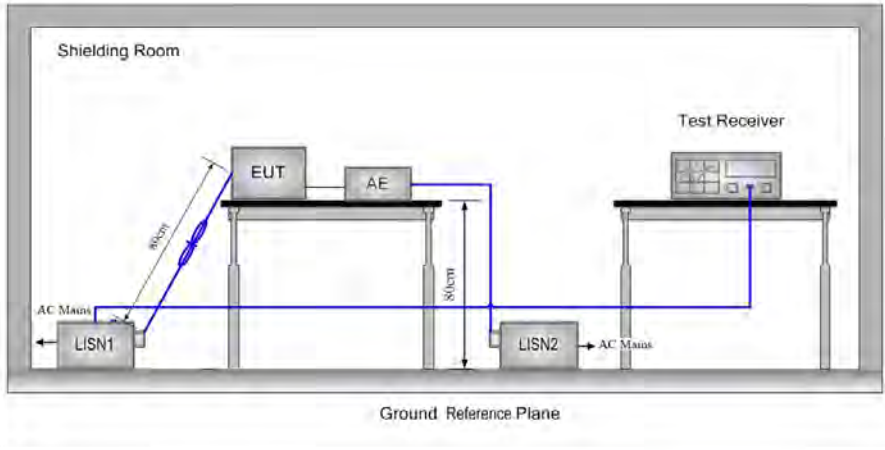
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3.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		

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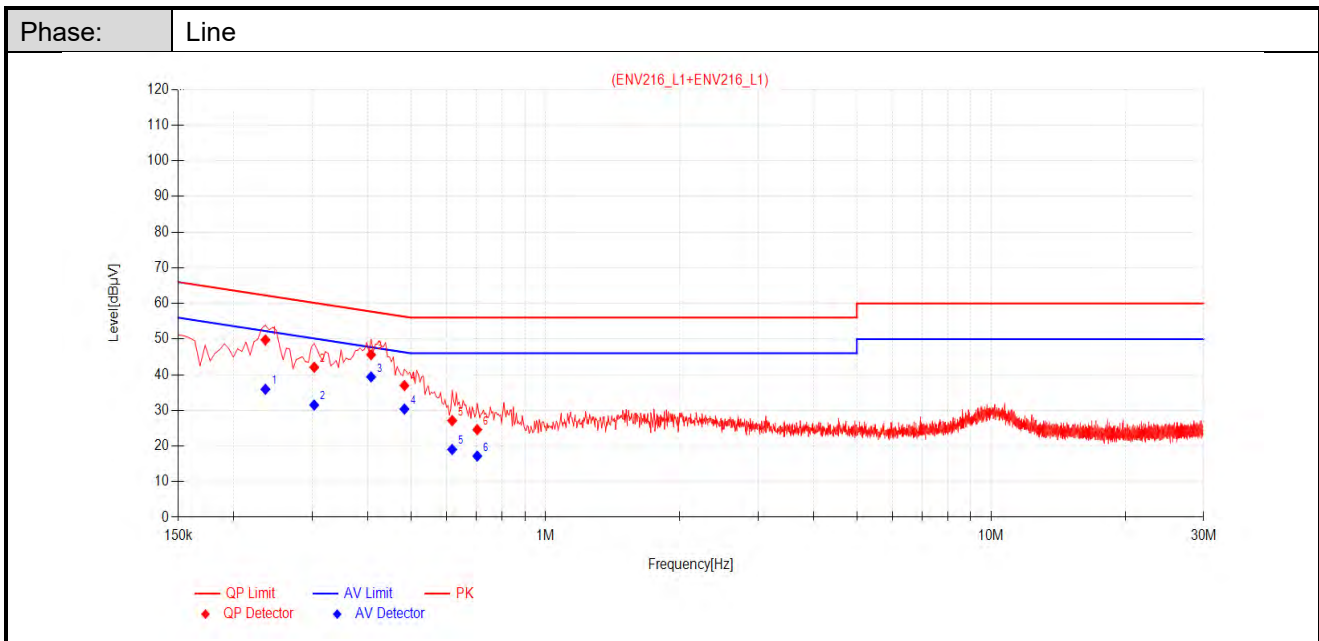
<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Adapter+transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>

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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2355	10.16	39.59	49.75	62.25	12.50	25.75	35.91	52.25	16.34	PASS
2	0.3030	10.16	31.92	42.08	60.16	18.08	21.34	31.50	50.16	18.66	PASS
3	0.4065	10.17	35.43	45.60	57.72	12.12	29.20	39.37	47.72	8.35	PASS
4	0.4830	10.17	26.79	36.96	56.29	19.33	20.19	30.36	46.29	15.93	PASS
5	0.6180	10.20	16.92	27.12	56.00	28.88	8.82	19.02	46.00	26.98	PASS
6	0.7035	10.20	14.40	24.60	56.00	31.40	6.97	17.17	46.00	28.83	PASS

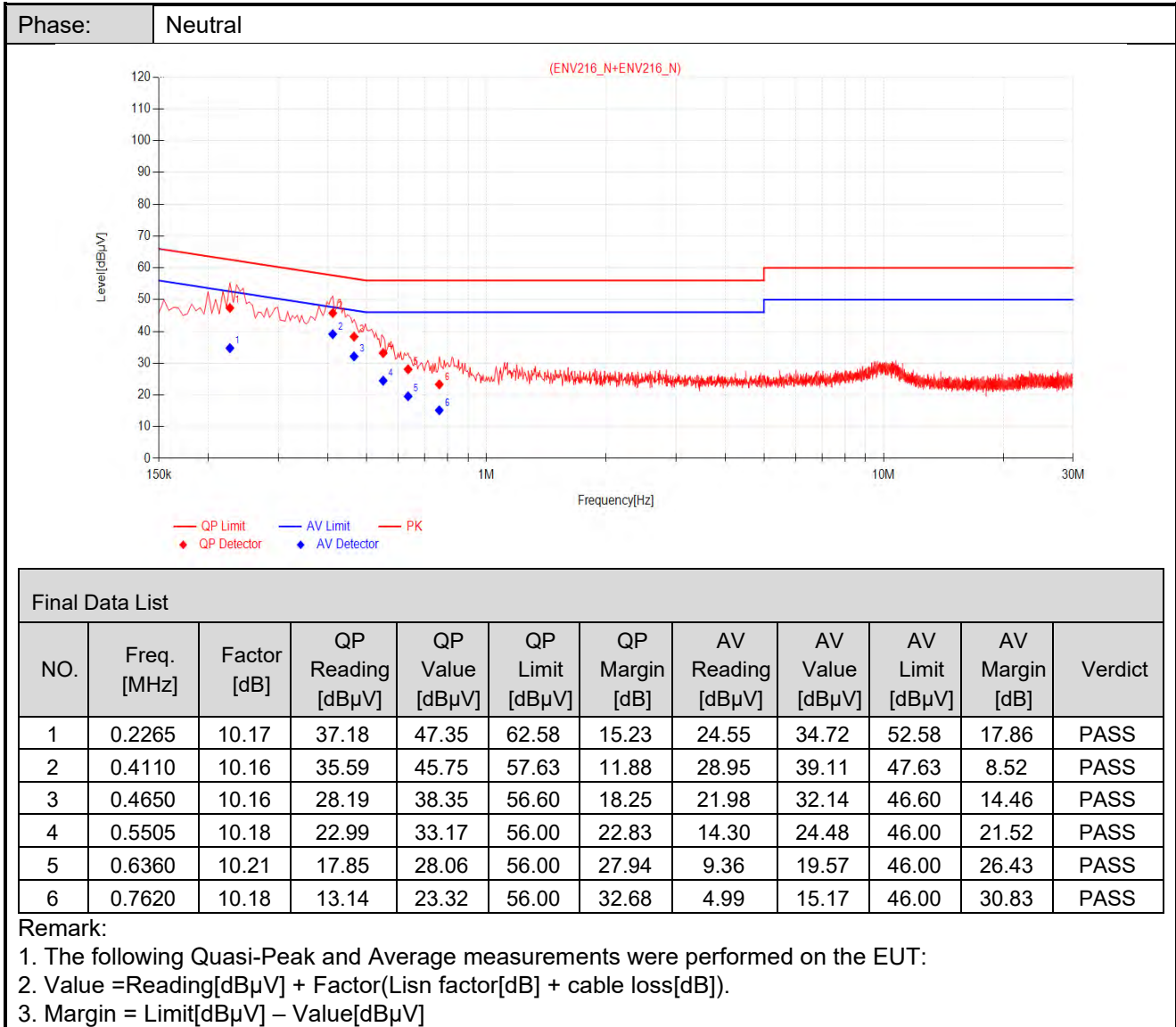
Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]

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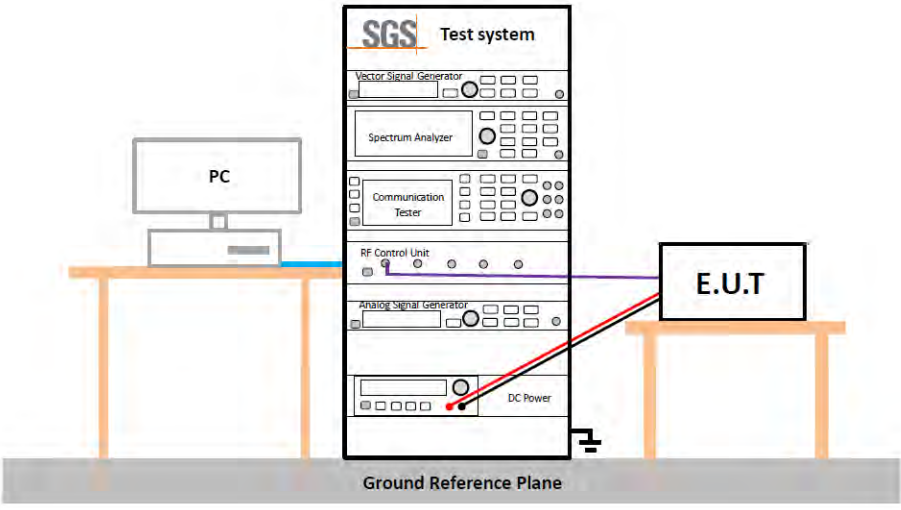
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3.3 Duty Cycle

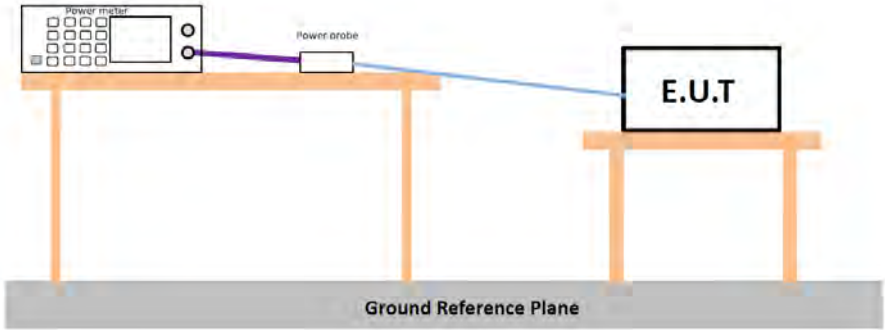
Test Requirement:	ANSI C63.10 :2013 Section 12.2
Test Method:	ANSI C63.10 :2013 Section 12.2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For report purpose
The detailed test data see: Appendix	

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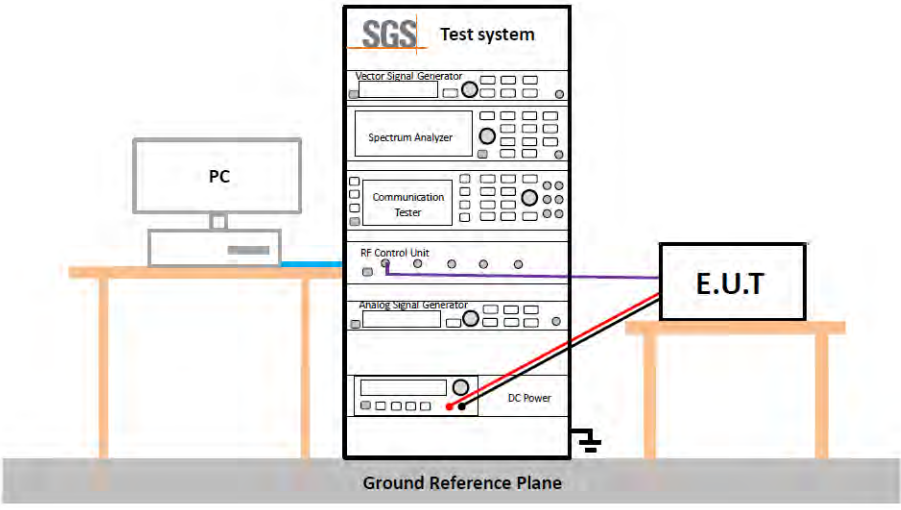
3.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10 :2013 Section 12.3.3.2	
Test Setup:	 <p>* Test with power meter (Detector function: Average) Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.</p>	
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 1W(30dBm)
	5250-5350MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(23.98dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: Appendix		

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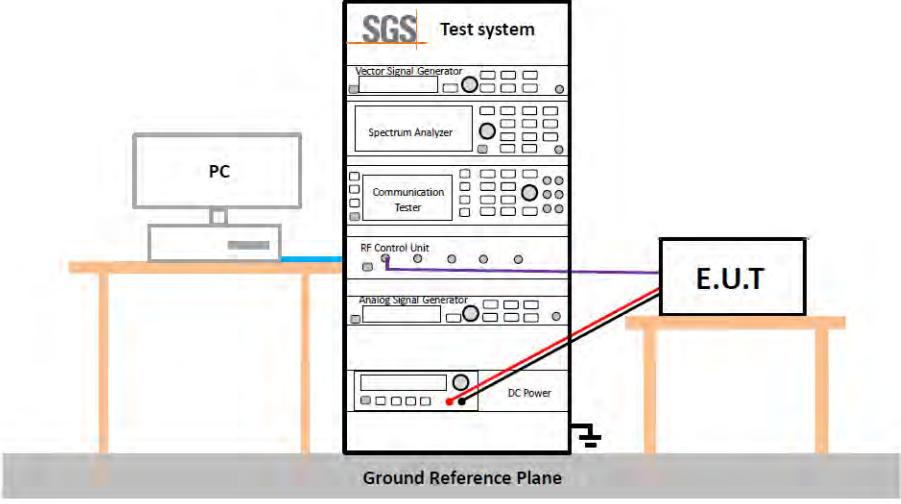
3.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C
Test Method:	ANSI C63.10: 2013 Section 12.4.1
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

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3.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013 Section 12.4.1	
Test Setup:		
Test Instruments:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	
The detailed test data see: Appendix		

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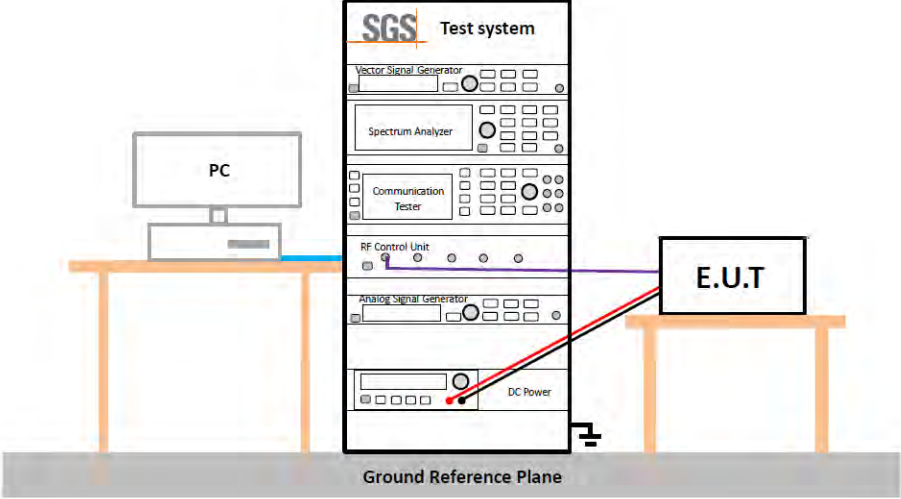
3.7 99% Occupied Bandwidth

Test Requirement:	KDB 789033 D02§ D
Test Method:	ANSI C63.10: 2013 Section 12.4.2
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

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3.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013 Section 12.5 KDB 789033 D02 v02r01, Section F.	
Test Setup:		
Instruments Used:	Refer to section 6 for details.	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Refer to section 3.7 for details.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 17dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: Appendix		

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3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

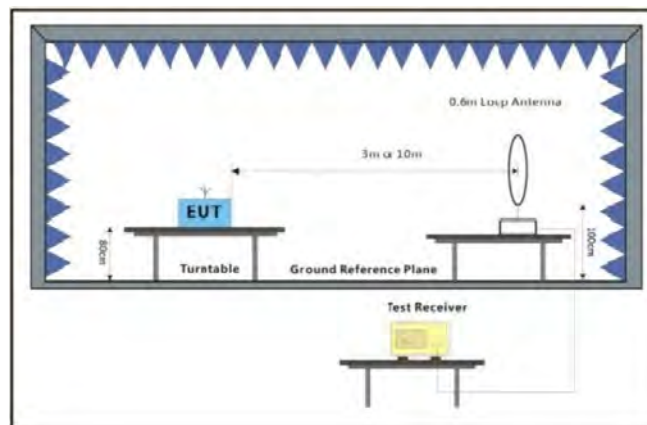


Figure 1. 9kHz to 30MHz

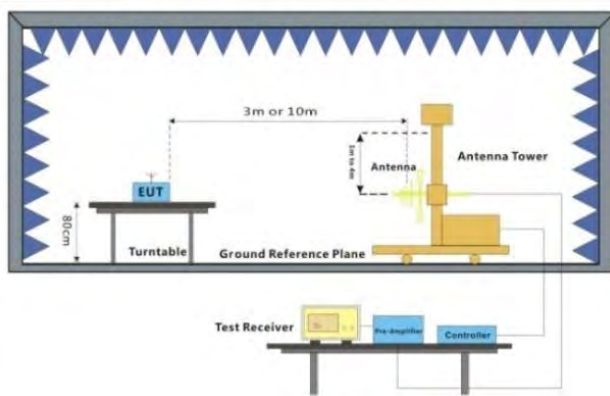


Figure 1. 30MHz to 1GHz

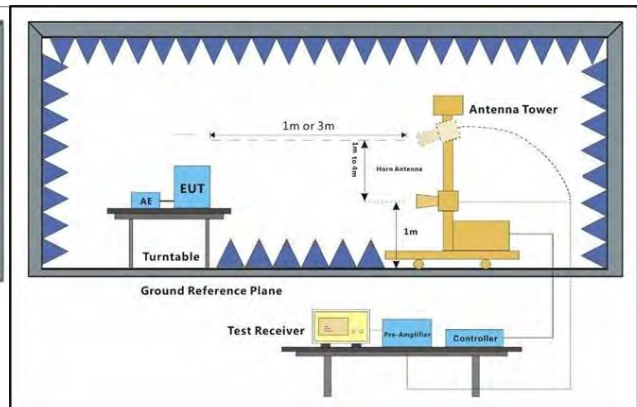


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
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	<p>(Distance from antenna to EUT is 1m for measurements >18GHz).</p> <ol style="list-style-type: none"> c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.
<p>Test Configuration:</p>	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p>

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	<ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Adapter+transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	

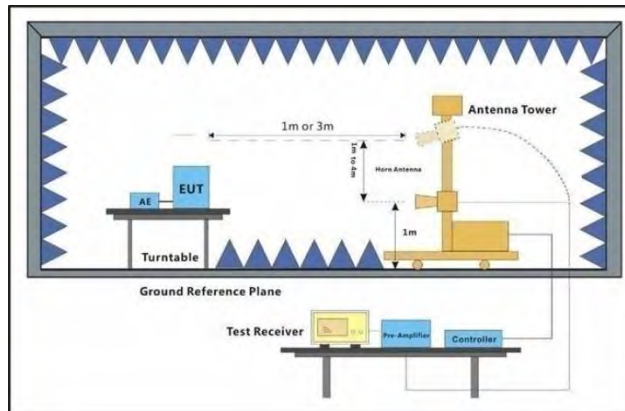
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3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 12.7		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
Above 1GHz		54.0	Average Value
		74.0	Peak Value

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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	<p>f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates. Adapter+transmitting mode.</p>
Final Test Mode:	<p>Refer to section 3.7 for details.</p>
Instruments Used:	<p>Refer to section 6 for details.</p>
Test Results:	<p>Pass</p>
<p>The detailed test data see: Appendix</p>	

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4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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5 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/09	2025/11/08
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/02/18	2025/02/17
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/05/08	2025/05/07
Measurement Software	TST	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/05/09	2025/05/08
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/02/04	2025/02/03
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/02/04	2025/02/03
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2023/11/21	2024/11/20
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/02/04	2025/02/03
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20
MXG Vector Signal Generator	Agilent	N5181A	SUWI-01-38-02	2023/08/30	2024/08/29

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Conduction Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2024/02/01	2025/01/31
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2024/02/08	2025/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2024/02/04	2025/02/03
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2024/02/04	2025/02/03
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

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RSE Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2023/03/04	2026/03/03
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2024/02/08	2025/02/07
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2024/02/01	2025/01/31
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2025/05/11
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2025/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2023/11/21	2024/11/20
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

Remark: NCR=No Calibration Requirement.

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6 Photographs - Setup Photos

Refer to Appendix A.1 WLAN Setup Photos.

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Appendix

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1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	2.098	2.114	99.24	0.03	0.03
		5200	/	/	2.098	2.113	99.29	0.03	0.03
		5240	/	/	2.098	2.113	99.29	0.03	0.03
		5260	/	/	2.098	2.113	99.29	0.03	0.03
		5300	/	/	2.098	2.114	99.24	0.03	0.03
		5320	/	/	2.098	2.113	99.29	0.03	0.03
		5500	/	/	2.097	2.113	99.24	0.03	0.03
		5580	/	/	2.098	2.113	99.29	0.03	0.03
		5700	/	/	2.097	2.112	99.29	0.03	0.03
		5745	/	/	2.098	2.114	99.24	0.03	0.03
		5785	/	/	2.097	2.113	99.24	0.03	0.03
5825	/	/	2.098	2.114	99.24	0.03	0.03		
802.11n (HT20)	MIMO	5180	/	/	5.398	5.414	99.70	0.01	0.04
		5200	/	/	5.396	5.413	99.69	0.01	0.03
		5240	/	/	5.398	5.414	99.70	0.01	0.04
		5260	/	/	5.396	5.413	99.69	0.01	0.03
		5300	/	/	5.397	5.412	99.72	0.01	0.00
		5320	/	/	5.397	5.411	99.74	0.01	0.00
		5500	/	/	5.396	5.411	99.72	0.01	0.00
		5580	/	/	5.396	5.413	99.69	0.01	0.03
		5700	/	/	5.398	5.414	99.70	0.01	0.04
		5745	/	/	5.397	5.412	99.72	0.01	0.00
		5785	/	/	5.397	5.412	99.72	0.01	0.00
5825	/	/	5.397	5.411	99.74	0.01	0.00		
802.11n (HT40)	MIMO	5190	/	/	5.196	5.211	99.71	0.01	0.04
		5230	/	/	5.197	5.211	99.73	0.01	0.00
		5270	/	/	5.197	5.212	99.71	0.01	0.04
		5310	/	/	5.197	5.212	99.71	0.01	0.00
		5510	/	/	5.197	5.212	99.71	0.01	0.04
		5550	/	/	5.197	5.212	99.71	0.01	0.00
		5670	/	/	5.197	5.212	99.71	0.01	0.00
		5755	/	/	5.197	5.213	99.69	0.01	0.03
		5795	/	/	5.197	5.212	99.71	0.01	0.00
802.11ac (VHT20)	MIMO	5180	/	/	5.402	5.417	99.72	0.01	0.00
		5200	/	/	5.402	5.418	99.70	0.01	0.04
		5240	/	/	5.402	5.418	99.70	0.01	0.04
		5260	/	/	5.403	5.418	99.72	0.01	0.00
		5300	/	/	5.400	5.417	99.69	0.01	0.03
		5320	/	/	5.402	5.418	99.70	0.01	0.04
5500	/	/	5.402	5.418	99.70	0.01	0.04		

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		5580	/	/	5.402	5.418	99.70	0.01	0.04
		5700	/	/	5.402	5.417	99.72	0.01	0.00
		5745	/	/	5.402	5.418	99.70	0.01	0.04
		5785	/	/	5.402	5.417	99.72	0.01	0.00
		5825	/	/	5.402	5.418	99.70	0.01	0.04
802.11ac (VHT40)	MIMO	5190	/	/	5.200	5.215	99.71	0.01	0.00
		5230	/	/	5.201	5.216	99.71	0.01	0.00
		5270	/	/	5.200	5.215	99.71	0.01	0.00
		5310	/	/	5.201	5.216	99.71	0.01	0.00
		5510	/	/	5.200	5.215	99.71	0.01	0.00
		5550	/	/	5.200	5.215	99.71	0.01	0.04
		5670	/	/	5.200	5.215	99.71	0.01	0.00
		5755	/	/	5.200	5.215	99.71	0.01	0.00
		5795	/	/	5.200	5.215	99.71	0.01	0.00
802.11ac (VHT80)	MIMO	5210	/	/	2.702	2.716	99.48	0.02	0.03
		5290	/	/	2.701	2.716	99.45	0.02	0.04
		5530	/	/	2.701	2.716	99.45	0.02	0.03
		5610	/	/	2.701	2.716	99.45	0.02	0.03
		5775	/	/	2.701	2.716	99.45	0.02	0.03
802.11ax (HE20)	MIMO	5180	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5200	RU242	Left	5.418	5.434	99.71	0.01	0.04
		5240	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5260	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5300	RU242	Left	5.418	5.434	99.71	0.01	0.04
		5320	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5500	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5580	RU242	Left	5.420	5.436	99.71	0.01	0.04
		5700	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5745	RU242	Left	5.419	5.436	99.69	0.01	0.03
802.11ax (HE40)	MIMO	5190	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5230	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5270	RU484	Left	4.104	4.120	99.61	0.02	0.03
		5310	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5510	RU484	Left	4.105	4.122	99.59	0.02	0.04
		5550	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5670	RU484	Left	4.105	4.122	99.59	0.02	0.04
		5755	RU484	Left	4.106	4.122	99.61	0.02	0.04
		5795	RU484	Left	4.105	4.120	99.64	0.02	0.00
802.11ax (HE80)	MIMO	5210	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5290	RU996	Left	2.218	2.234	99.28	0.03	0.04
		5530	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5610	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5775	RU996	Left	2.218	2.233	99.33	0.03	0.04

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1.1.2 Ant2

		Ant2							
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	/	/	2.098	2.113	99.29	0.03	0.03
		5200	/	/	2.098	2.113	99.29	0.03	0.03
		5240	/	/	2.097	2.113	99.24	0.03	0.03
		5260	/	/	2.097	2.113	99.24	0.03	0.03
		5300	/	/	2.099	2.114	99.29	0.03	0.03
		5320	/	/	2.098	2.113	99.29	0.03	0.03
		5500	/	/	2.097	2.113	99.24	0.03	0.03
		5580	/	/	2.098	2.113	99.29	0.03	0.03
		5700	/	/	2.098	2.113	99.29	0.03	0.03
		5745	/	/	2.097	2.113	99.24	0.03	0.03
		5785	/	/	2.098	2.114	99.24	0.03	0.03
5825	/	/	2.097	2.112	99.29	0.03	0.03	0.03	
802.11n (HT20)	MIMO	5180	/	/	5.398	5.414	99.70	0.01	0.04
		5200	/	/	5.396	5.412	99.70	0.01	0.04
		5240	/	/	5.396	5.412	99.70	0.01	0.04
		5260	/	/	5.396	5.412	99.70	0.01	0.04
		5300	/	/	5.398	5.414	99.70	0.01	0.04
		5320	/	/	5.396	5.413	99.69	0.01	0.03
		5500	/	/	5.396	5.413	99.69	0.01	0.03
		5580	/	/	5.398	5.414	99.70	0.01	0.04
		5700	/	/	5.398	5.414	99.70	0.01	0.04
		5745	/	/	5.398	5.414	99.70	0.01	0.04
		5785	/	/	5.398	5.414	99.70	0.01	0.04
5825	/	/	5.398	5.414	99.70	0.01	0.04		
802.11n (HT40)	MIMO	5190	/	/	5.197	5.213	99.69	0.01	0.04
		5230	/	/	5.197	5.214	99.67	0.01	0.04
		5270	/	/	5.197	5.212	99.71	0.01	0.00
		5310	/	/	5.196	5.211	99.71	0.01	0.00
		5510	/	/	5.197	5.212	99.71	0.01	0.00
		5550	/	/	5.197	5.212	99.71	0.01	0.00
		5670	/	/	5.197	5.213	99.69	0.01	0.03
		5755	/	/	5.197	5.214	99.67	0.01	0.04
		5795	/	/	5.197	5.212	99.71	0.01	0.00
802.11ac (VHT20)	MIMO	5180	/	/	5.402	5.418	99.70	0.01	0.04
		5200	/	/	5.402	5.418	99.70	0.01	0.04
		5240	/	/	5.402	5.418	99.70	0.01	0.04
		5260	/	/	5.402	5.418	99.70	0.01	0.04
		5300	/	/	5.402	5.417	99.72	0.01	0.00
		5320	/	/	5.402	5.418	99.70	0.01	0.04
		5500	/	/	5.402	5.418	99.70	0.01	0.04
		5580	/	/	5.402	5.418	99.70	0.01	0.04
		5700	/	/	5.402	5.417	99.72	0.01	0.00
		5745	/	/	5.402	5.418	99.70	0.01	0.04
		5785	/	/	5.402	5.418	99.70	0.01	0.04
5825	/	/	5.402	5.418	99.70	0.01	0.04		

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802.11ac (VHT40)	MIMO	5190	/	/	5.200	5.217	99.67	0.01	0.04
		5230	/	/	5.200	5.215	99.71	0.01	0.00
		5270	/	/	5.200	5.215	99.71	0.01	0.00
		5310	/	/	5.201	5.215	99.73	0.01	0.00
		5510	/	/	5.200	5.217	99.67	0.01	0.04
		5550	/	/	5.200	5.216	99.69	0.01	0.03
		5670	/	/	5.201	5.218	99.67	0.01	0.04
		5755	/	/	5.200	5.215	99.71	0.01	0.00
802.11ac (VHT80)	MIMO	5795	/	/	5.201	5.217	99.69	0.01	0.04
		5210	/	/	2.701	2.716	99.45	0.02	0.03
		5290	/	/	2.701	2.716	99.45	0.02	0.03
		5530	/	/	2.700	2.715	99.45	0.02	0.00
		5610	/	/	2.701	2.716	99.45	0.02	0.04
802.11ax (HE20)	MIMO	5775	/	/	2.700	2.715	99.45	0.02	0.00
		5180	RU242	Left	5.418	5.434	99.71	0.01	0.04
		5200	RU242	Left	5.420	5.436	99.71	0.01	0.04
		5240	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5260	RU242	Left	5.418	5.435	99.69	0.01	0.03
		5300	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5320	RU242	Left	5.419	5.436	99.69	0.01	0.03
		5500	RU242	Left	5.419	5.436	99.69	0.01	0.03
		5580	RU242	Left	5.418	5.434	99.71	0.01	0.04
		5700	RU242	Left	5.419	5.434	99.72	0.01	0.00
		5745	RU242	Left	5.418	5.434	99.71	0.01	0.04
802.11ax (HE40)	MIMO	5785	RU242	Left	5.418	5.434	99.71	0.01	0.04
		5825	RU242	Left	5.418	5.434	99.71	0.01	0.04
		5190	RU484	Left	4.106	4.122	99.61	0.02	0.04
		5230	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5270	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5310	RU484	Left	4.106	4.122	99.61	0.02	0.04
		5510	RU484	Left	4.103	4.120	99.59	0.02	0.04
		5550	RU484	Left	4.105	4.120	99.64	0.02	0.03
		5670	RU484	Left	4.105	4.121	99.61	0.02	0.04
802.11ax (HE80)	MIMO	5755	RU484	Left	4.105	4.121	99.61	0.02	0.04
		5795	RU484	Left	4.105	4.120	99.64	0.02	0.03
		5210	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5290	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5530	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5610	RU996	Left	2.218	2.233	99.33	0.03	0.04
		5775	RU996	Left	2.219	2.234	99.33	0.03	0.04

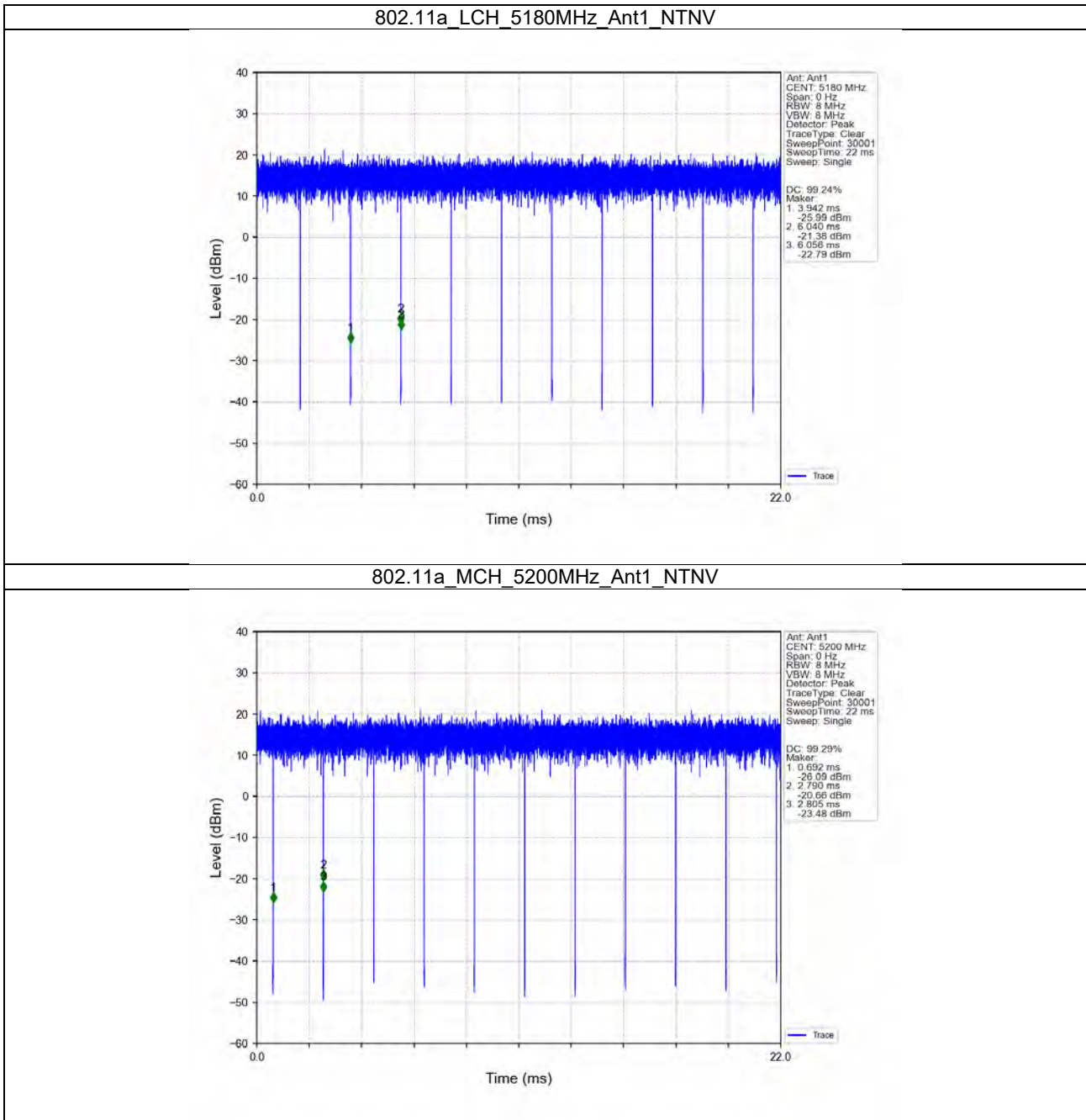
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1.2 Test Graph

1.2.1 Ant1

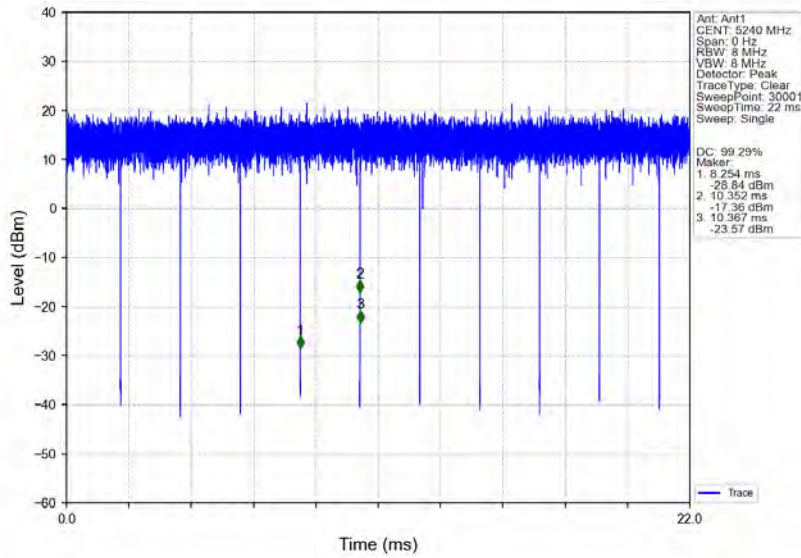


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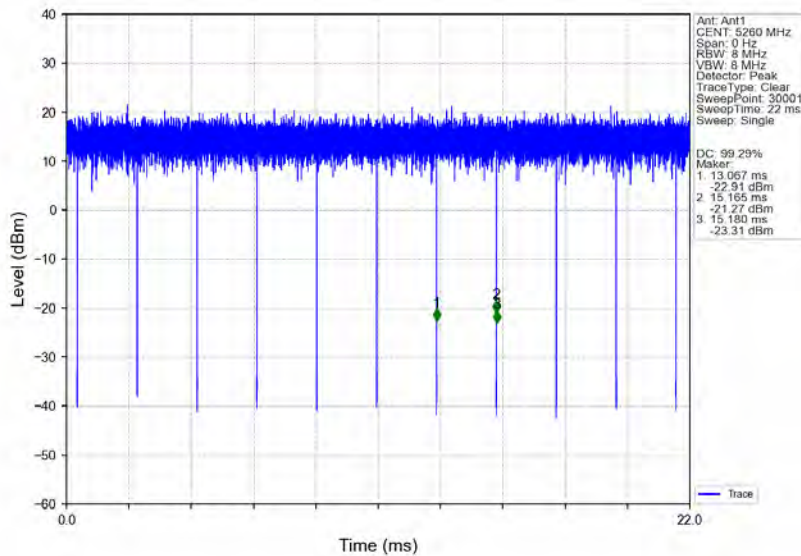
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV

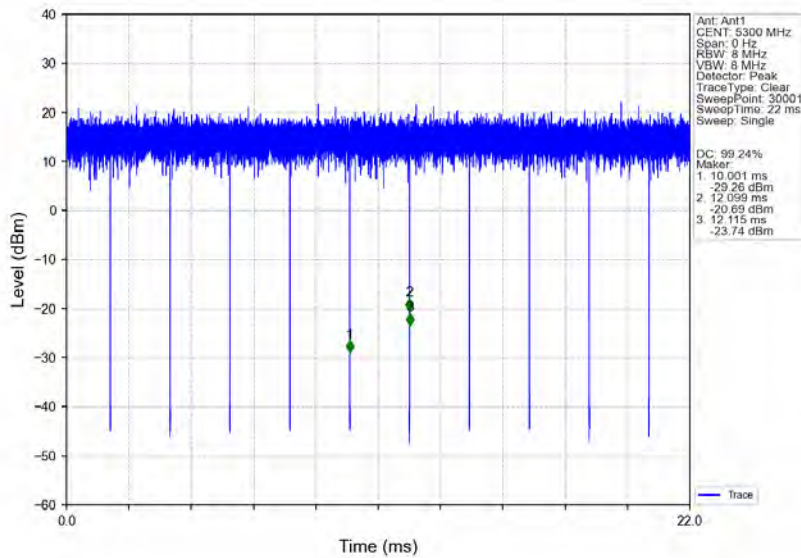


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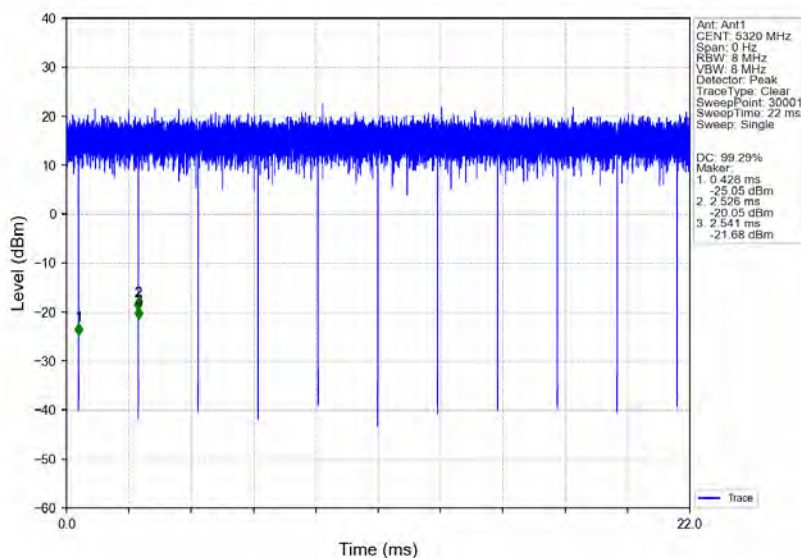
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802.11a MCH 5300MHz Ant1 NTN



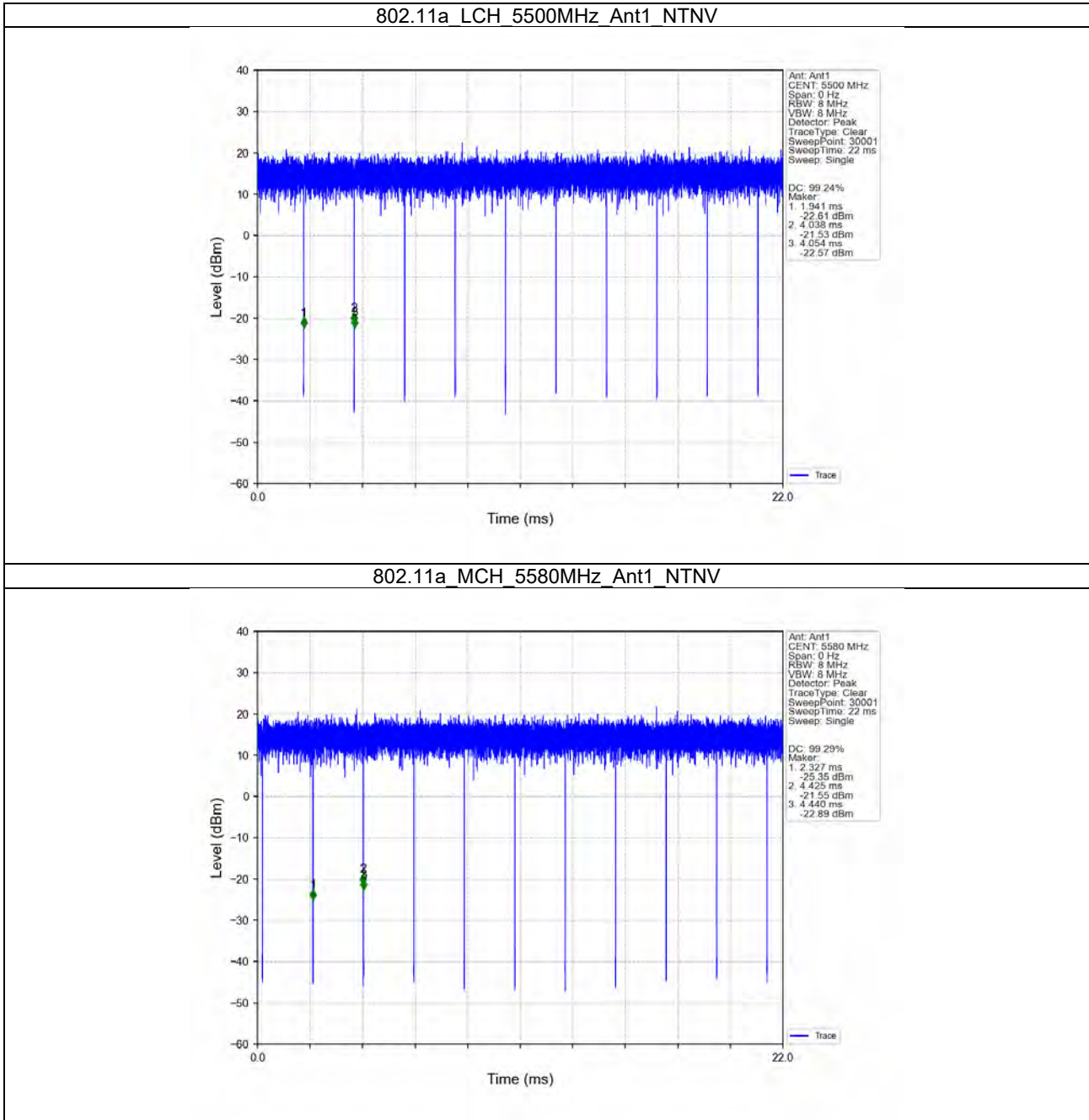
802.11a HCH 5320MHz Ant1 NTN



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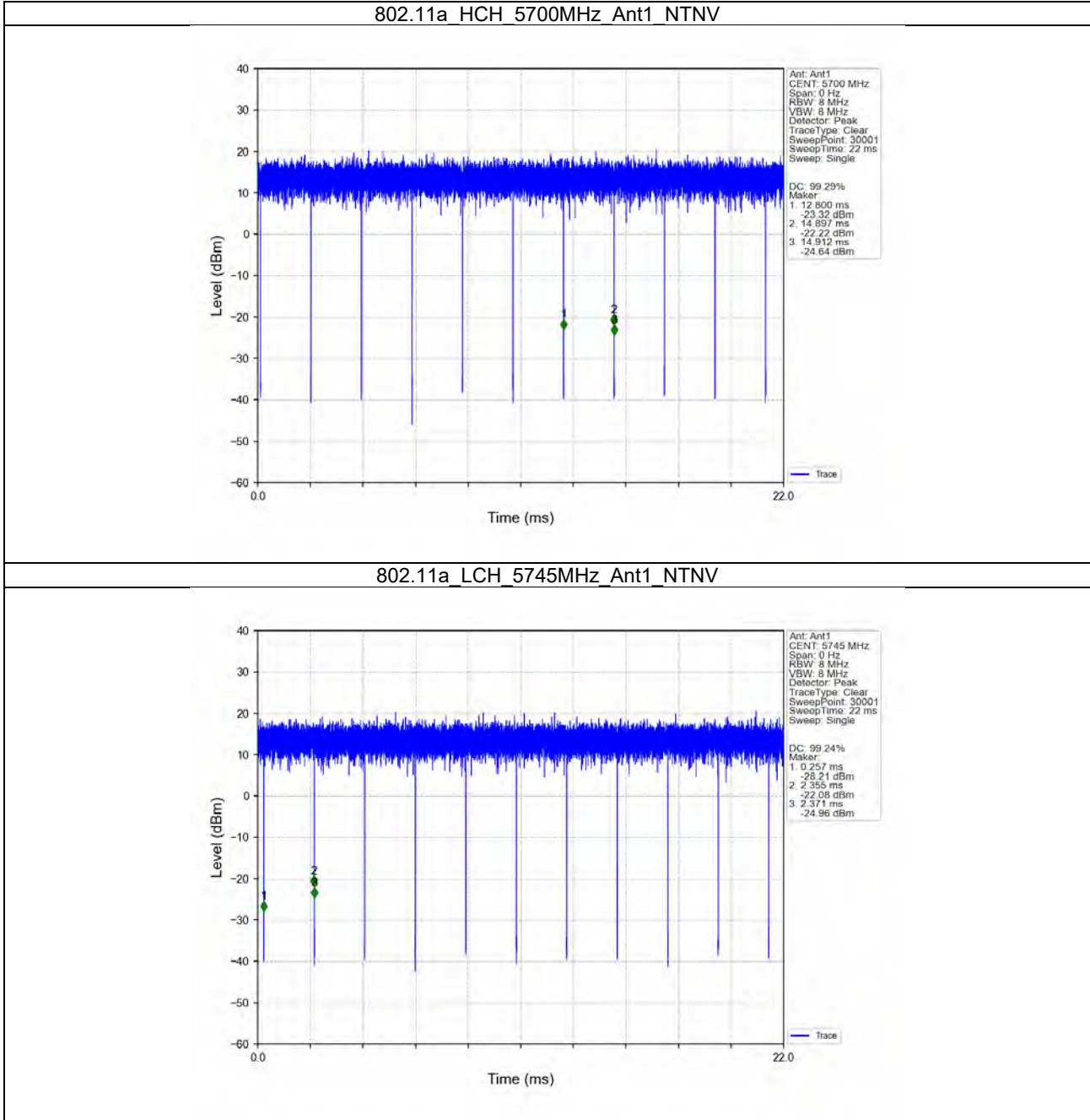
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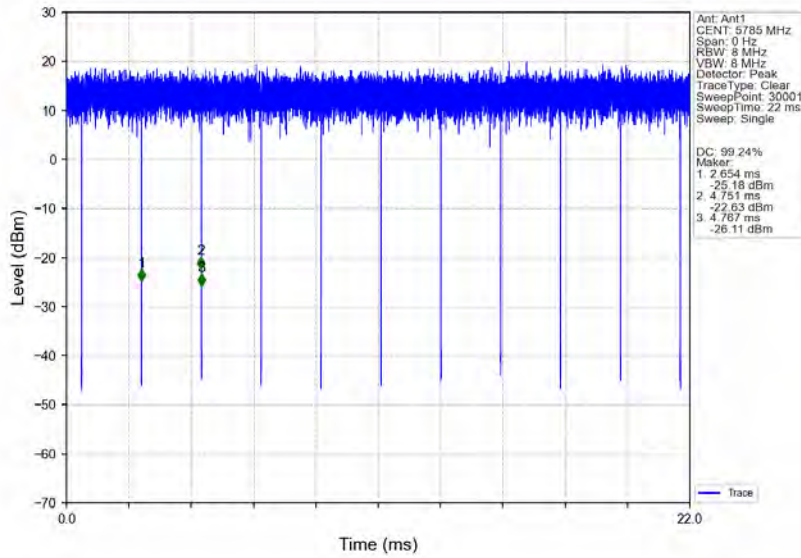


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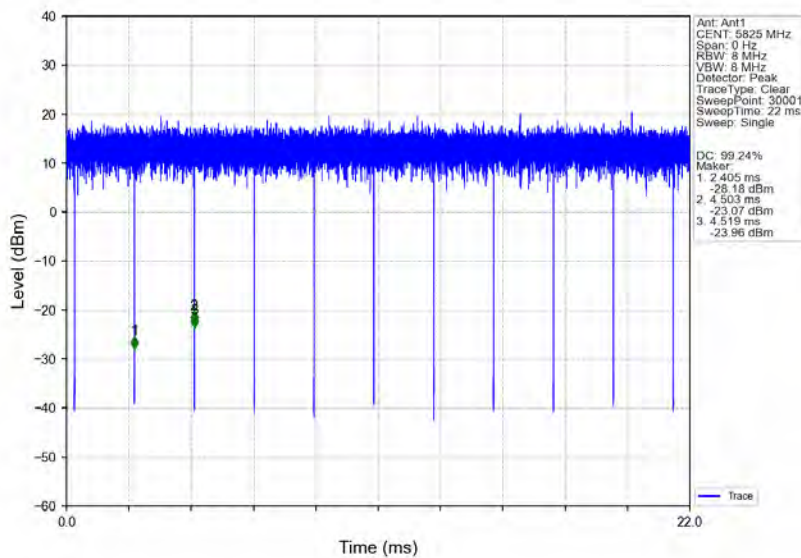
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802.11a MCH 5785MHz Ant1 NTN



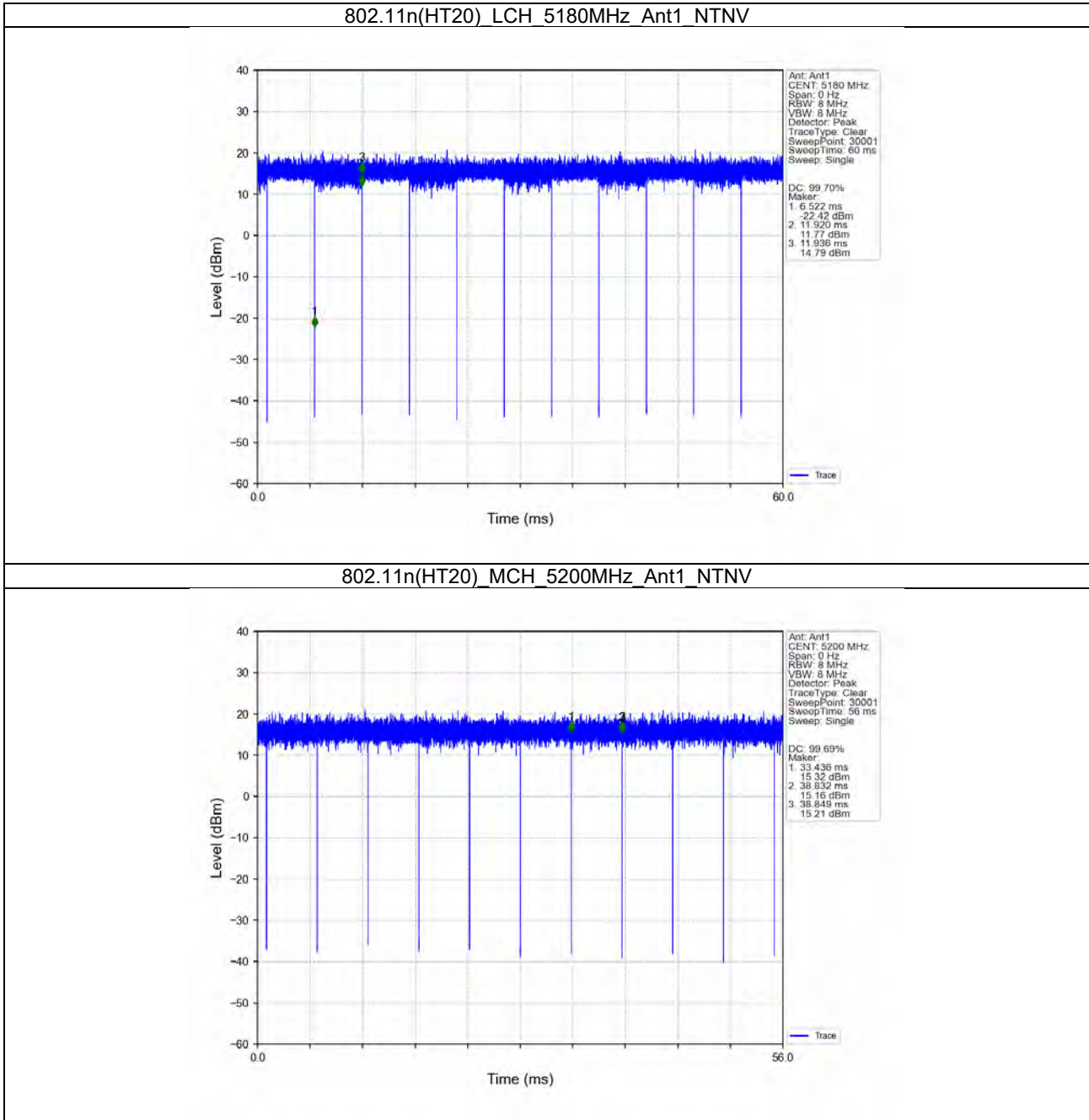
802.11a HCH 5825MHz Ant1 NTN



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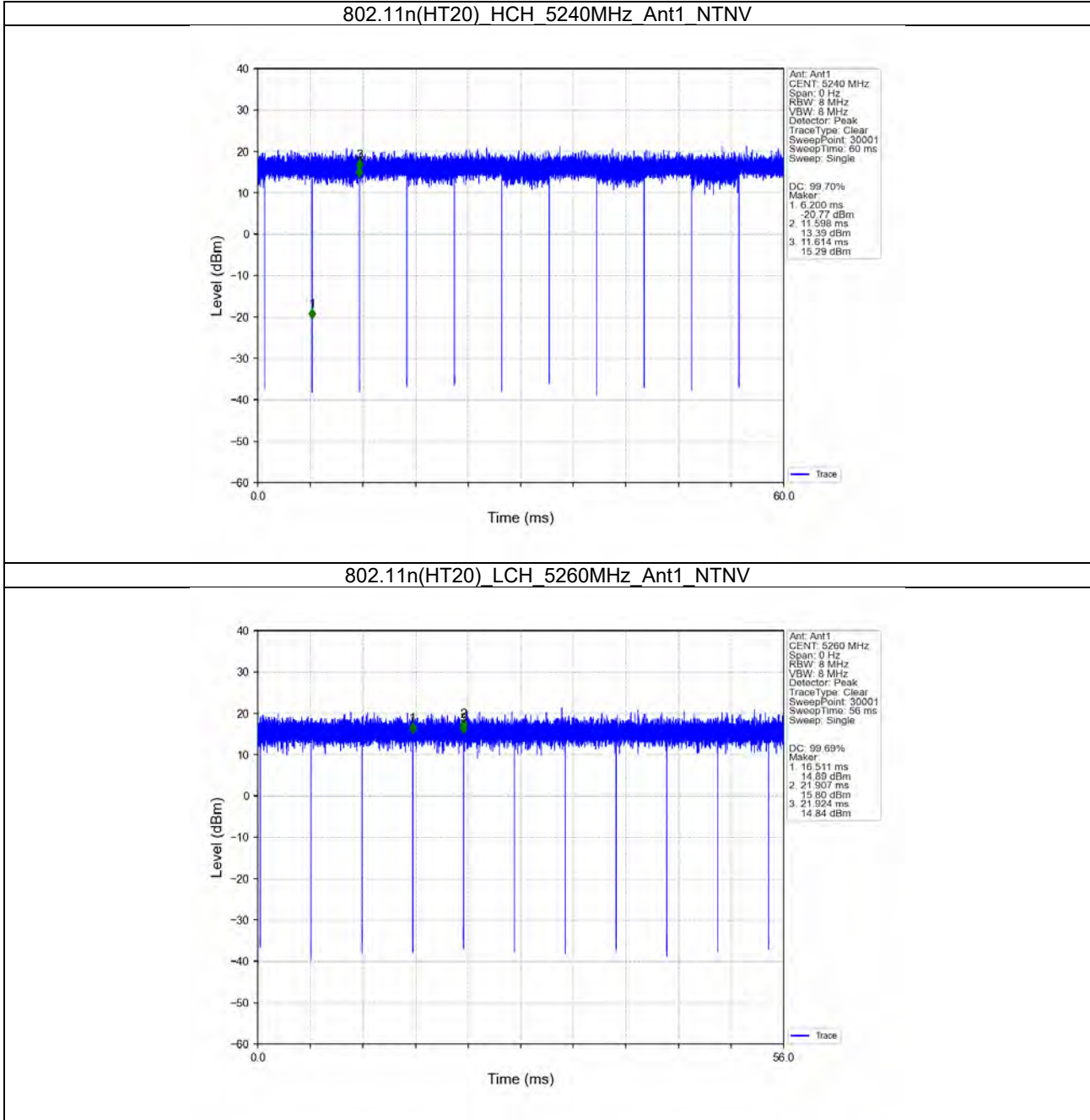
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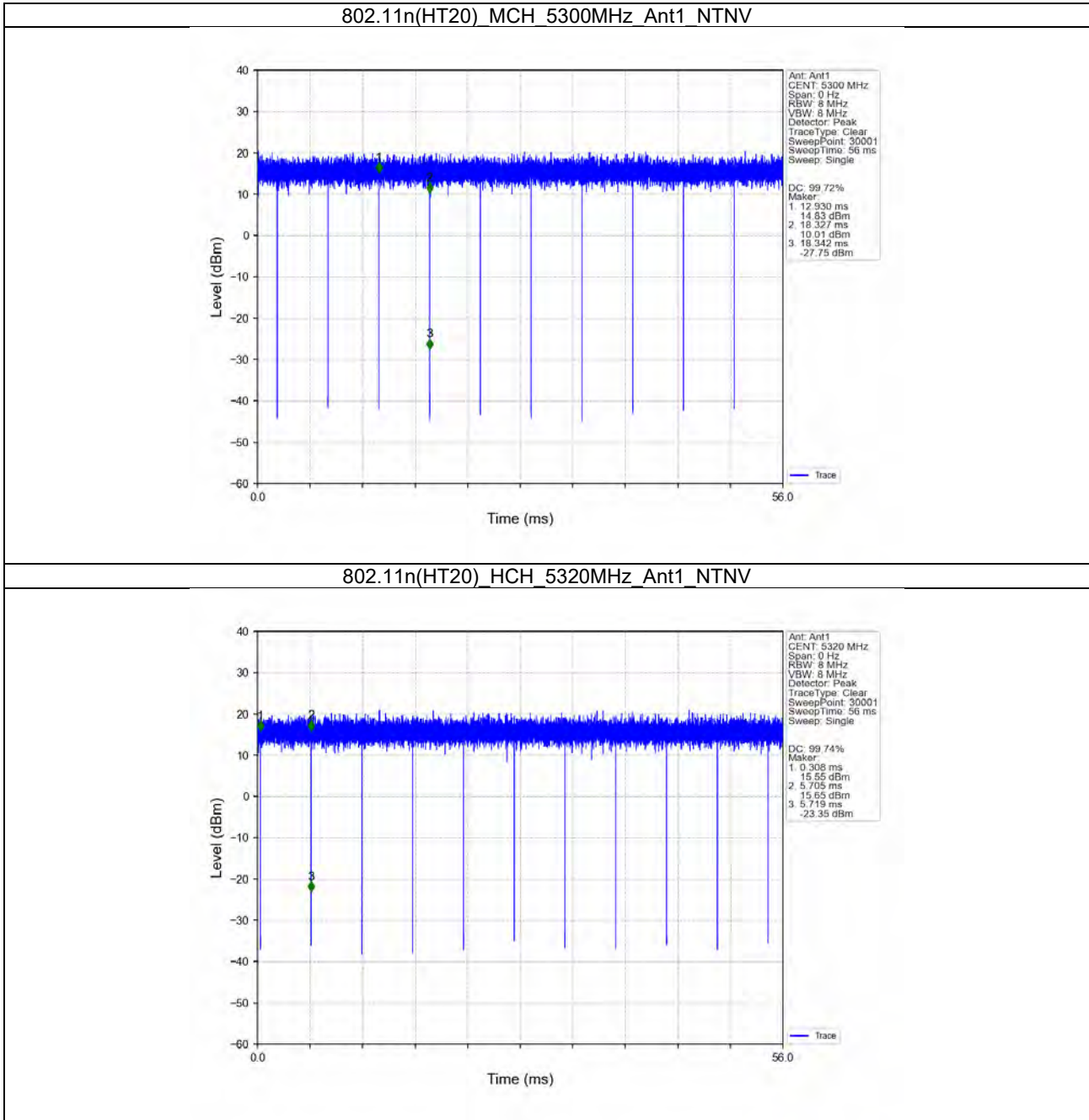
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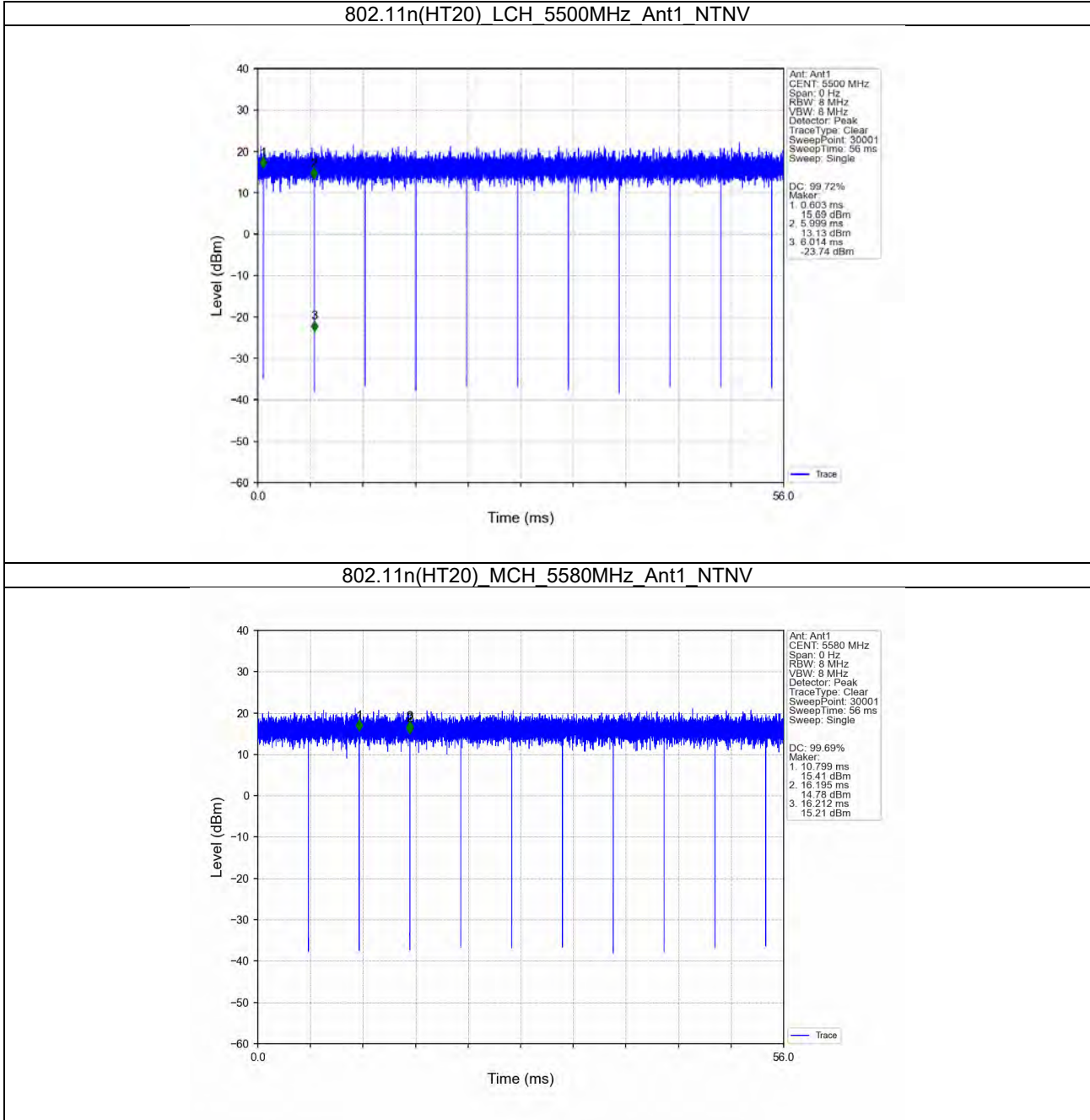
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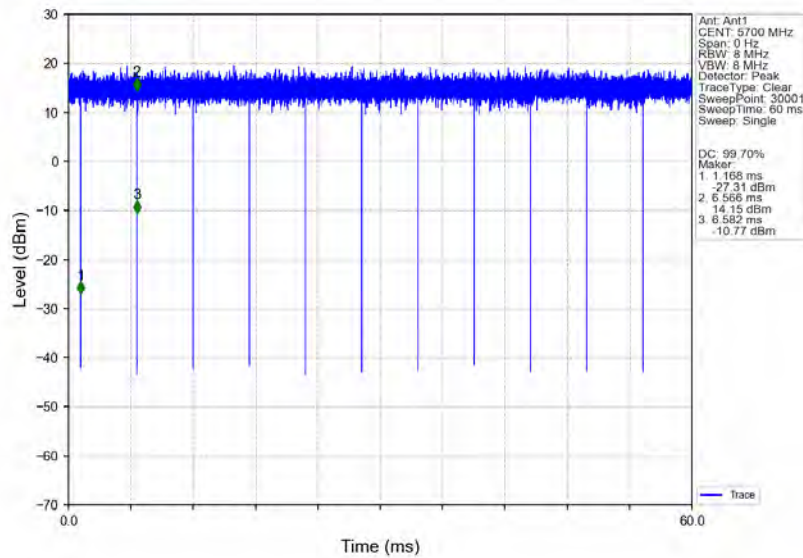


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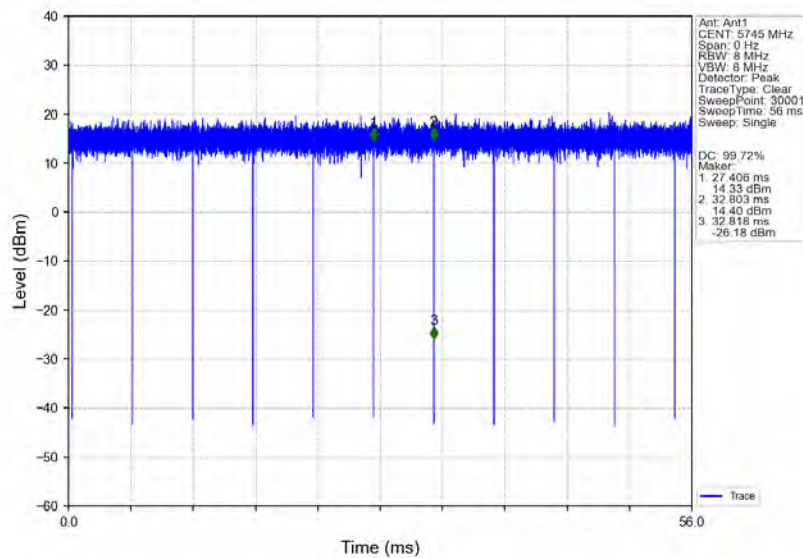
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802.11n(HT20) HCH 5700MHz Ant1 NTN



802.11n(HT20) LCH 5745MHz Ant1 NTN

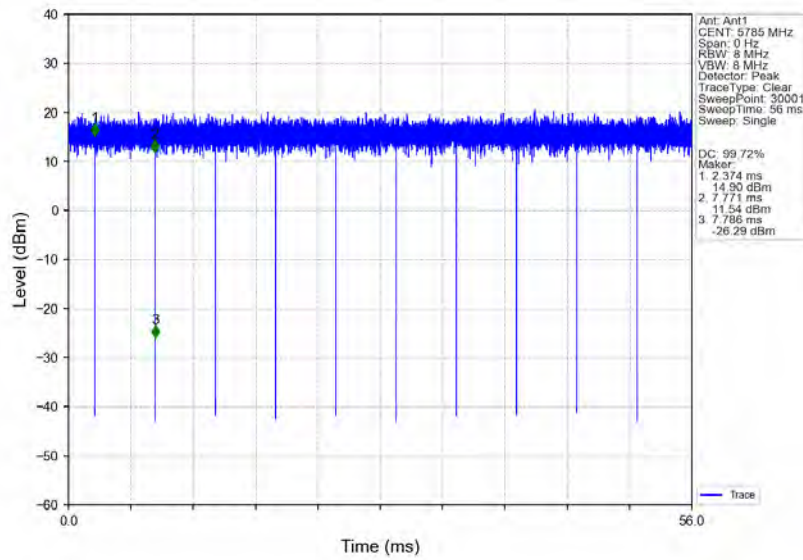


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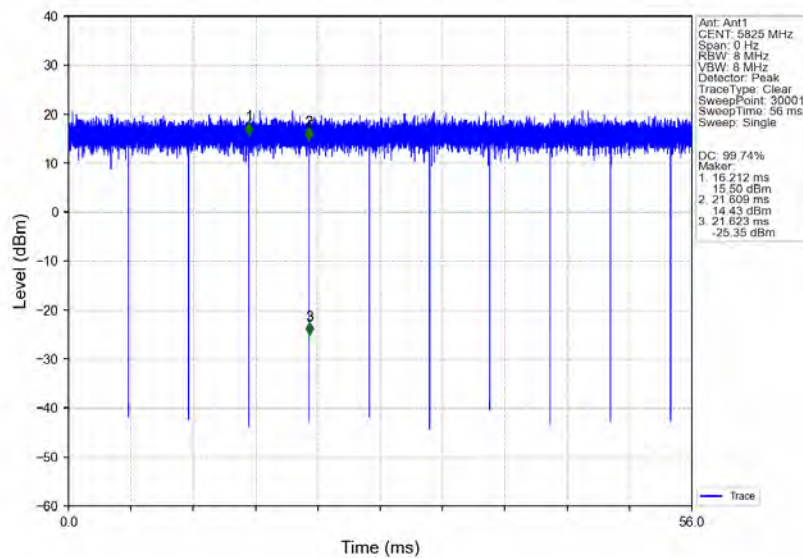
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802.11n(HT20) MCH 5785MHz Ant1 NTN



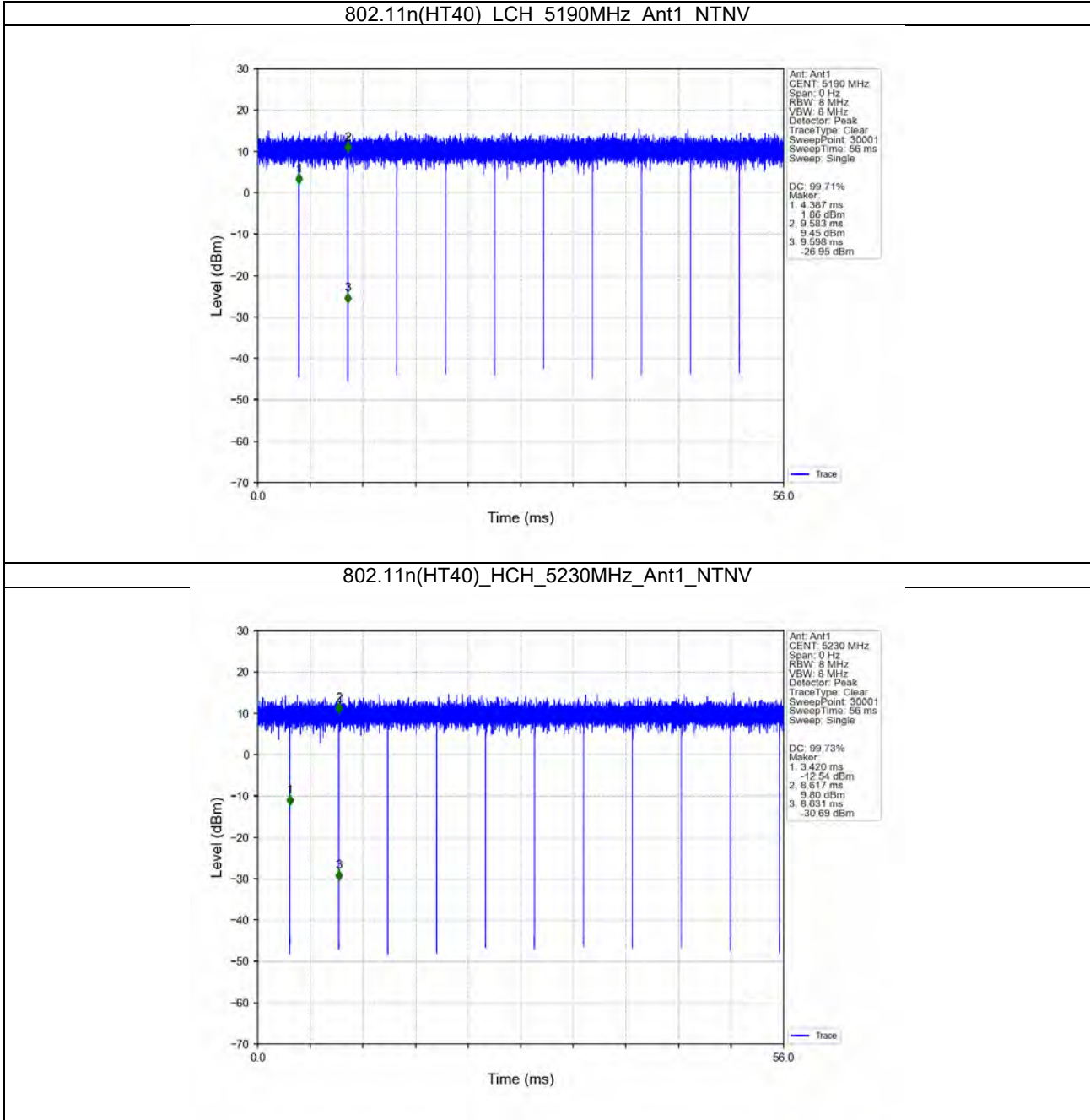
802.11n(HT20) HCH 5825MHz Ant1 NTN



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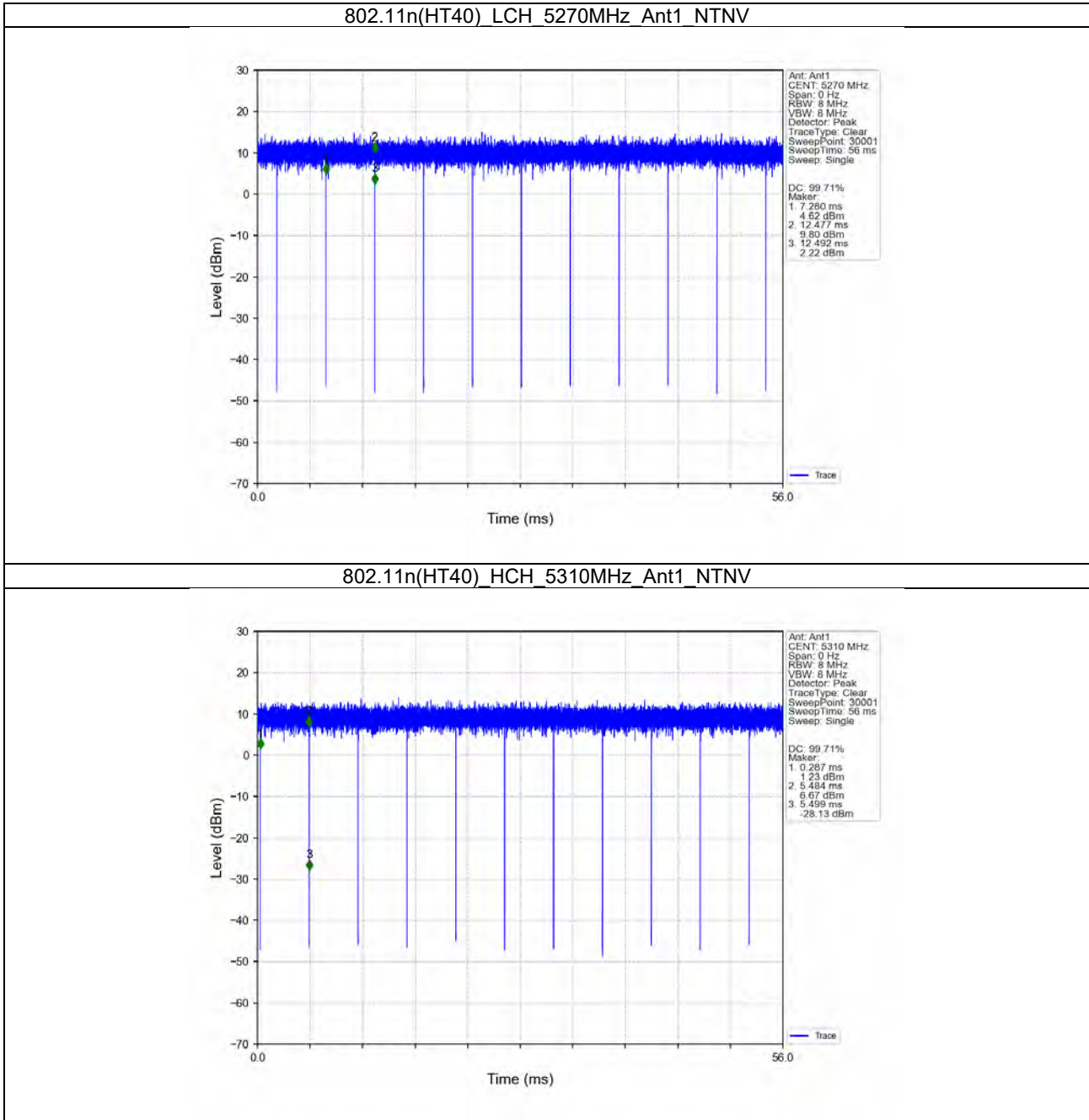
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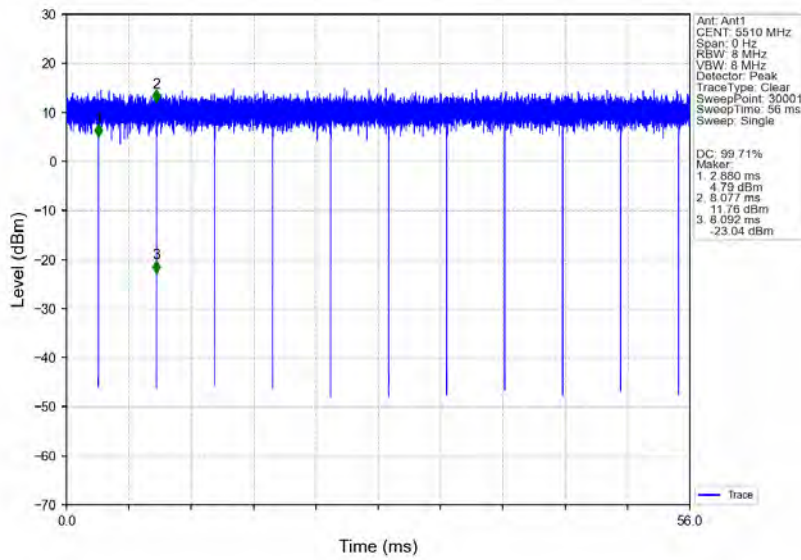


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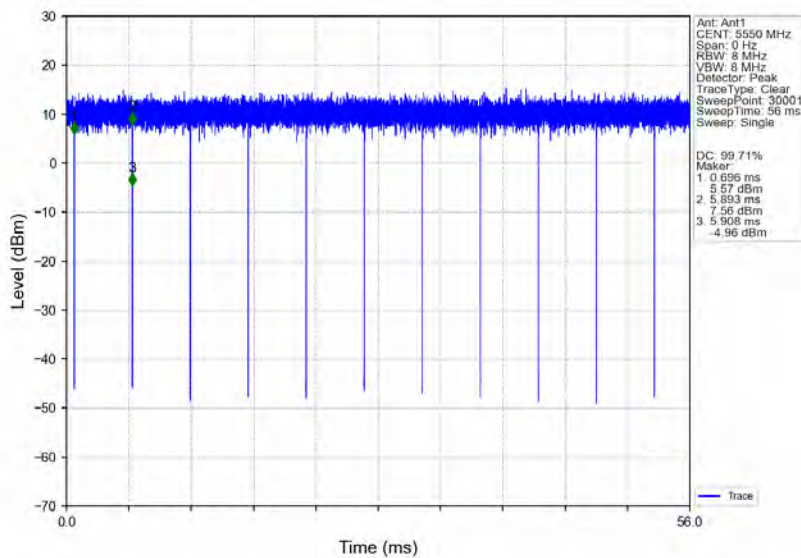
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802.11n(HT40) LCH 5510MHz Ant1 NTN



802.11n(HT40) MCH 5550MHz Ant1 NTN

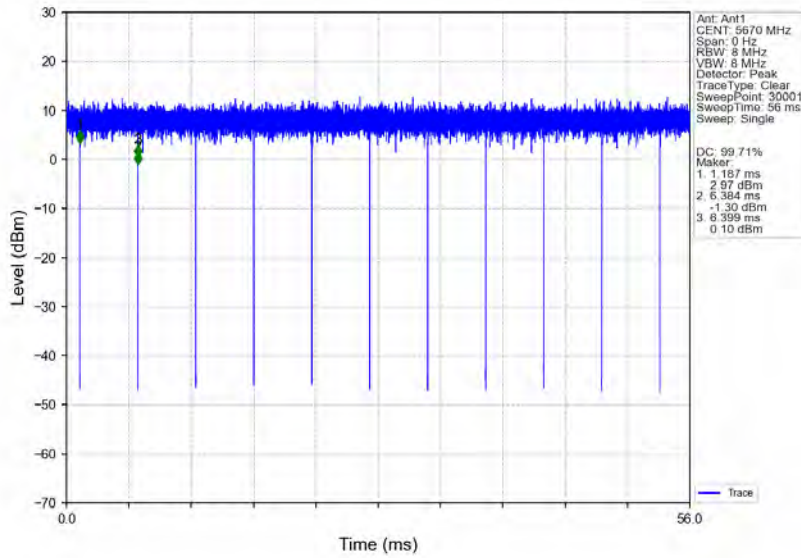


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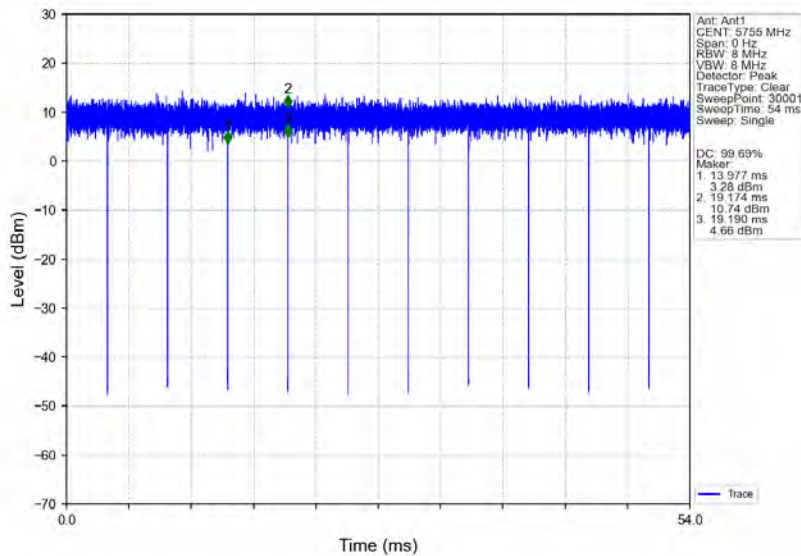
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802.11n(HT40) HCH 5670MHz Ant1 NTN



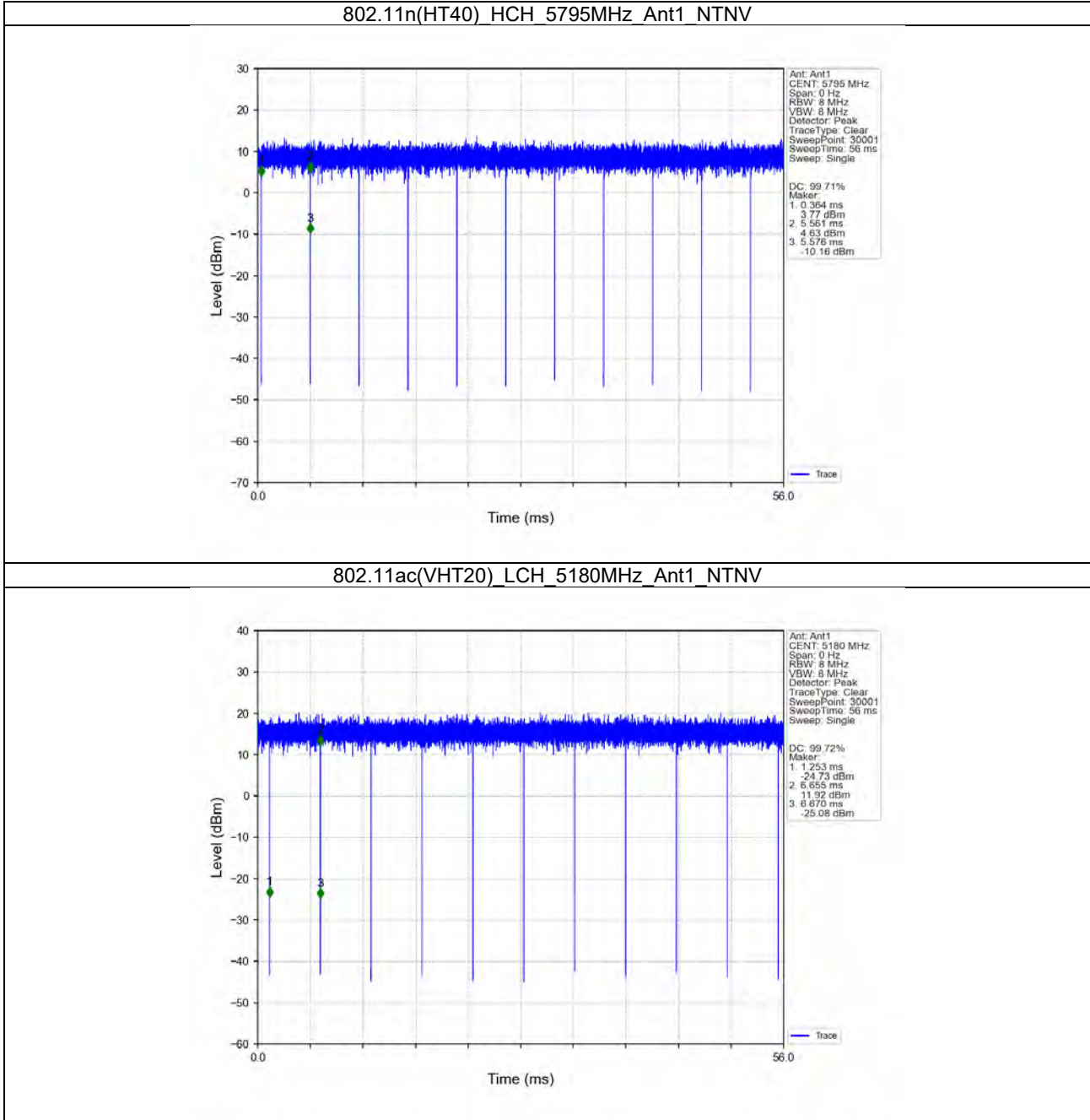
802.11n(HT40) LCH 5755MHz Ant1 NTN



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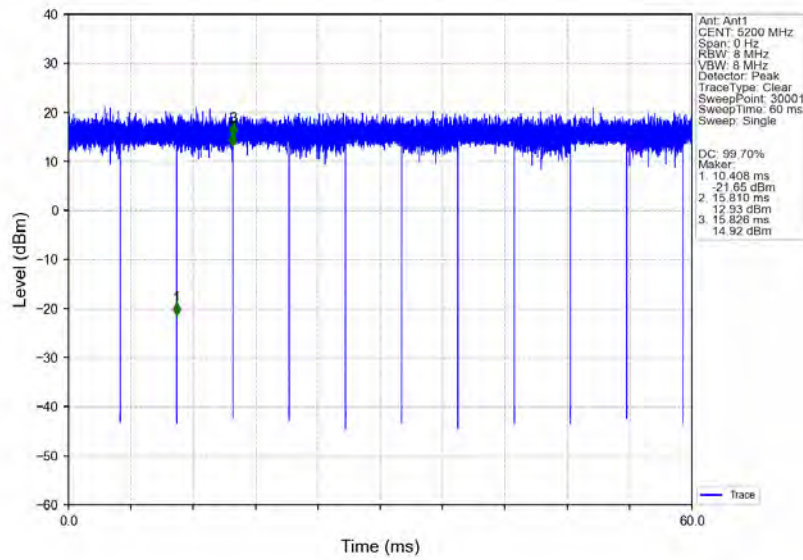


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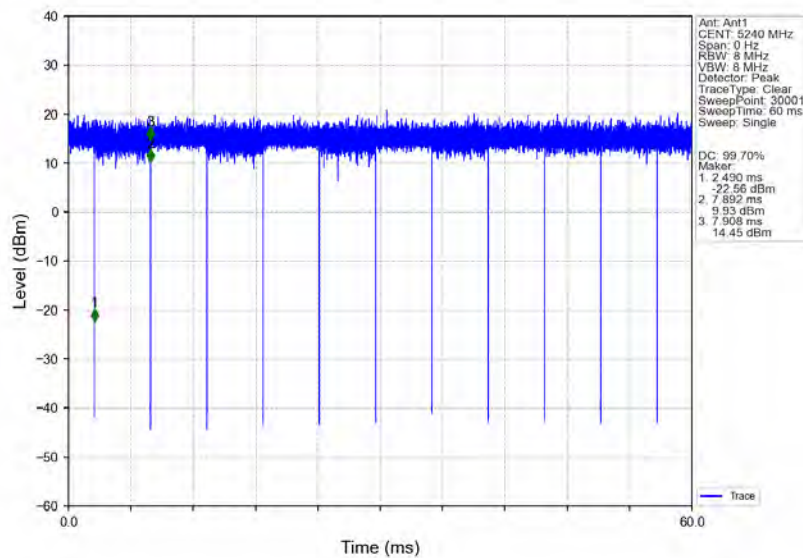
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802.11ac(VHT20) MCH 5200MHz Ant1 NTN



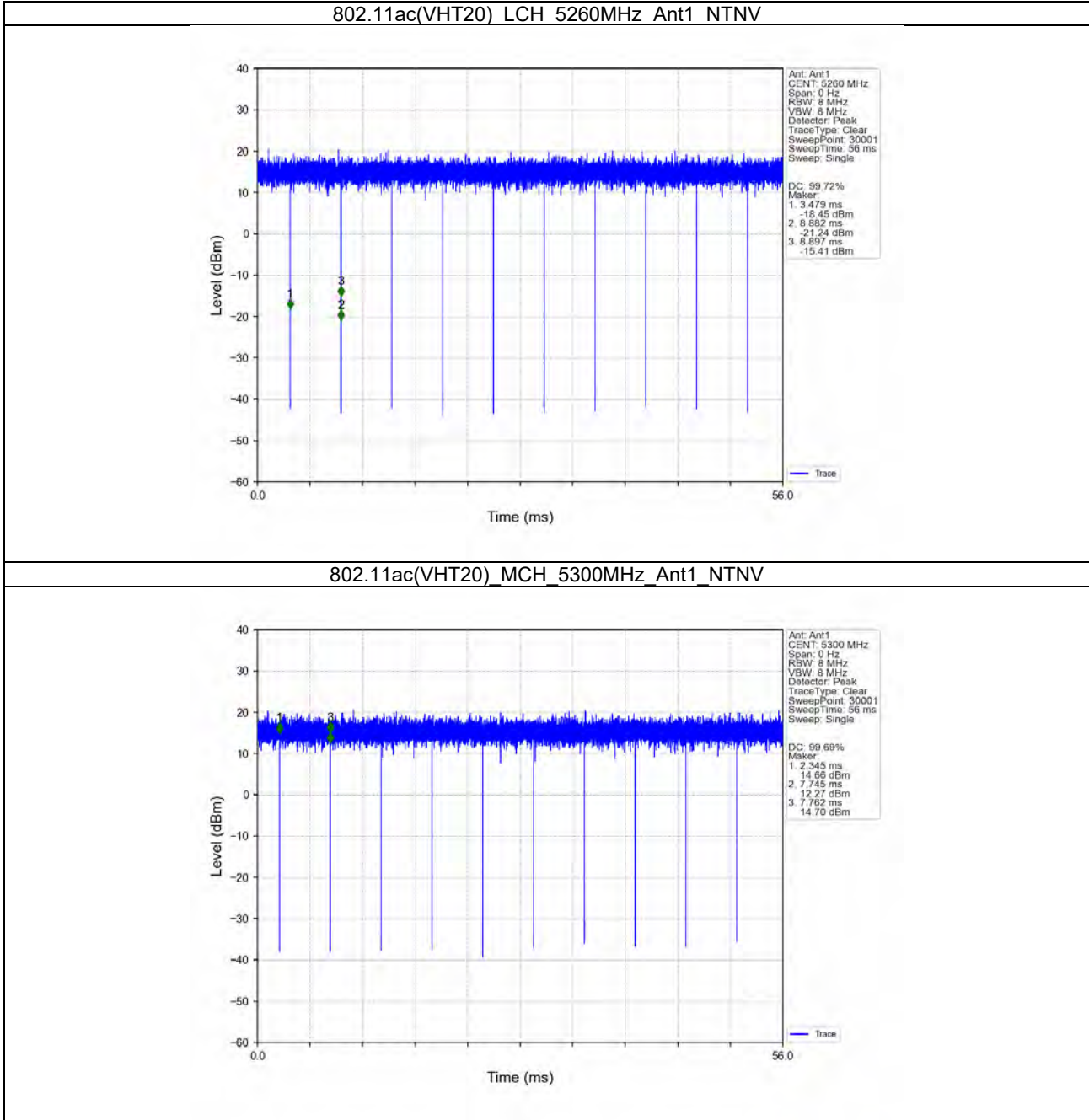
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



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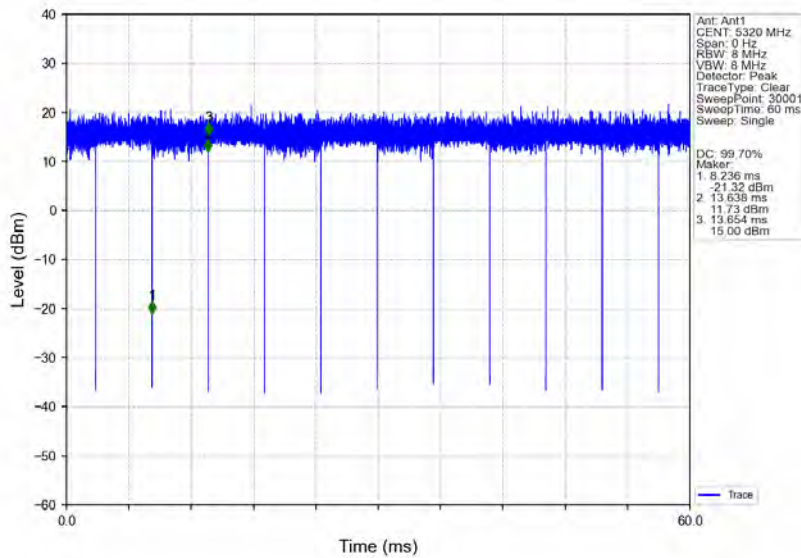


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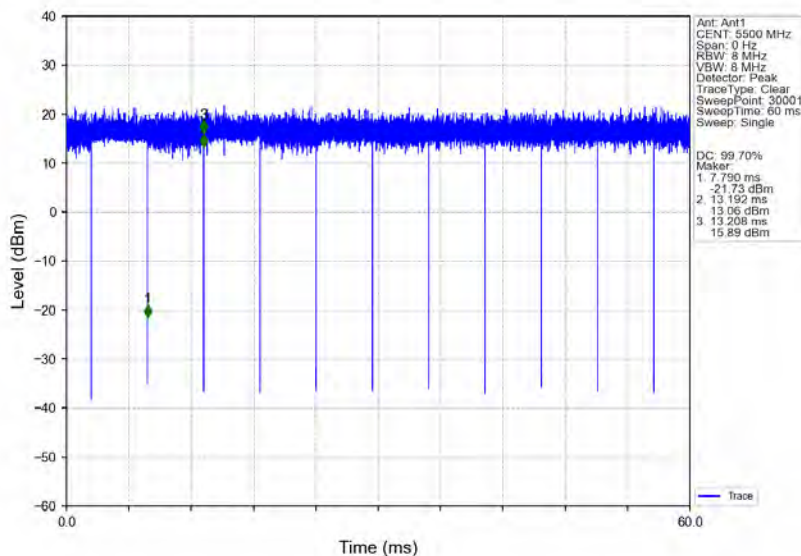
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802.11ac(VHT20) HCH 5320MHz Ant1 NTN



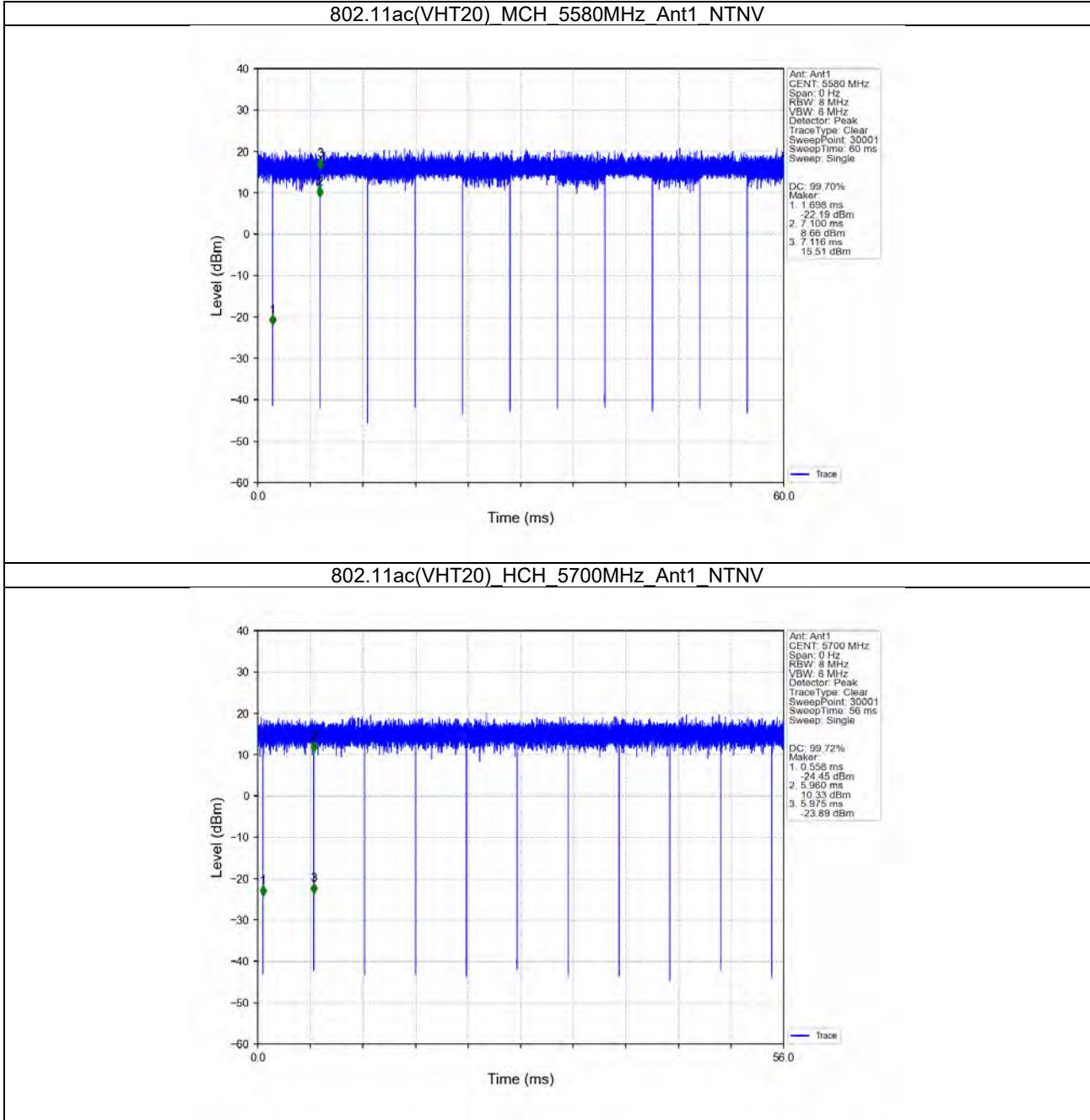
802.11ac(VHT20) LCH 5500MHz Ant1 NTN



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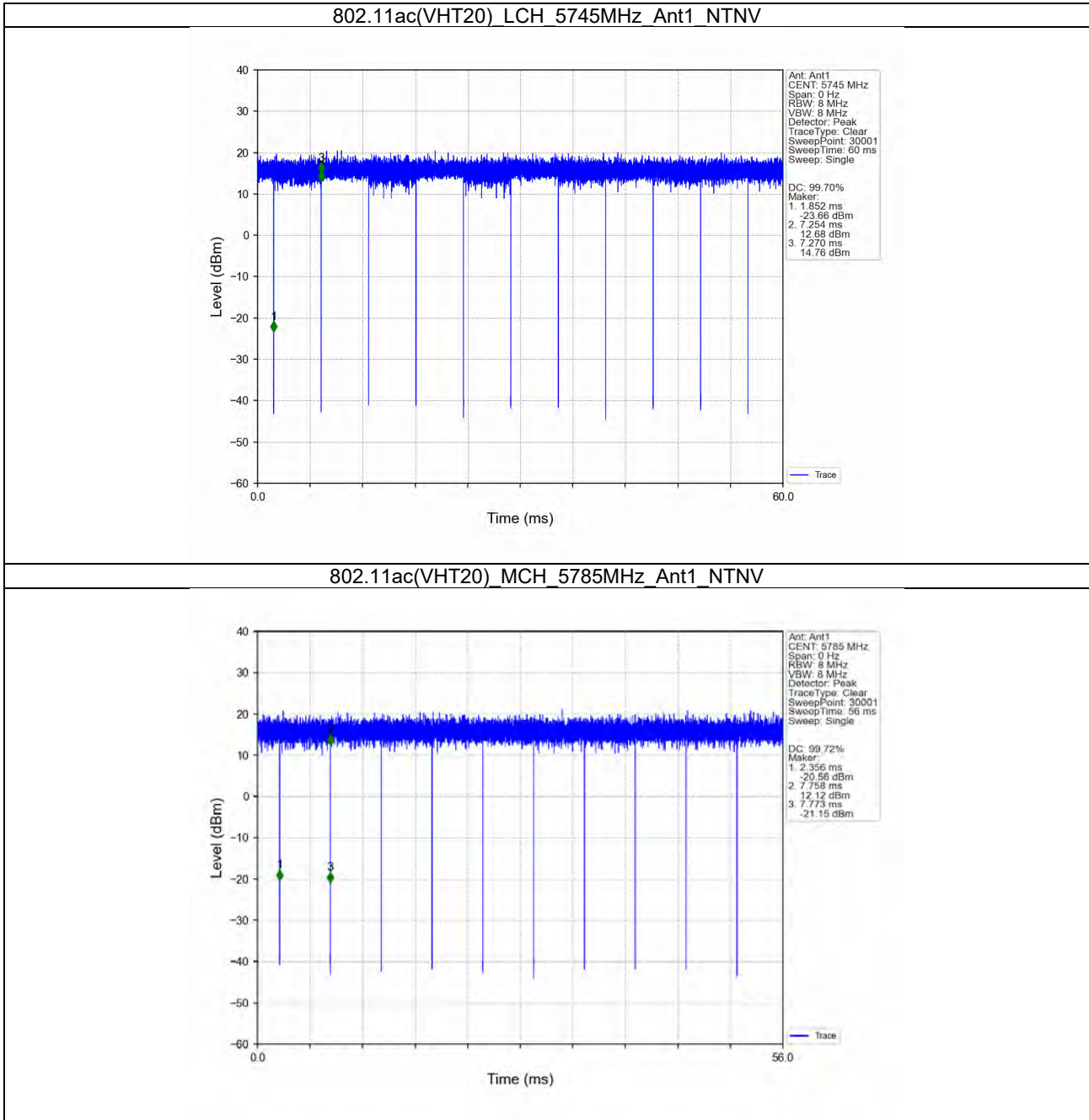
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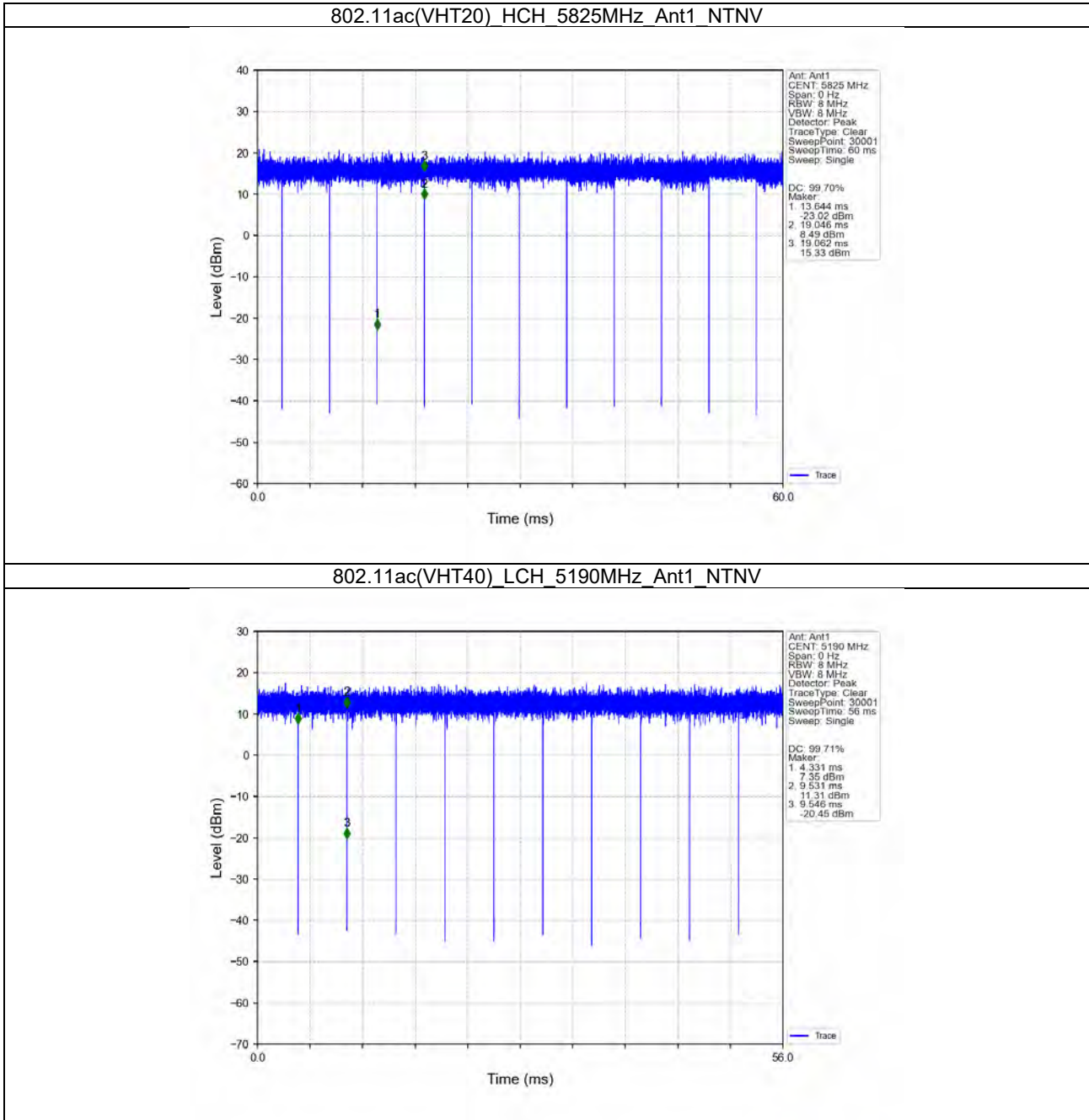
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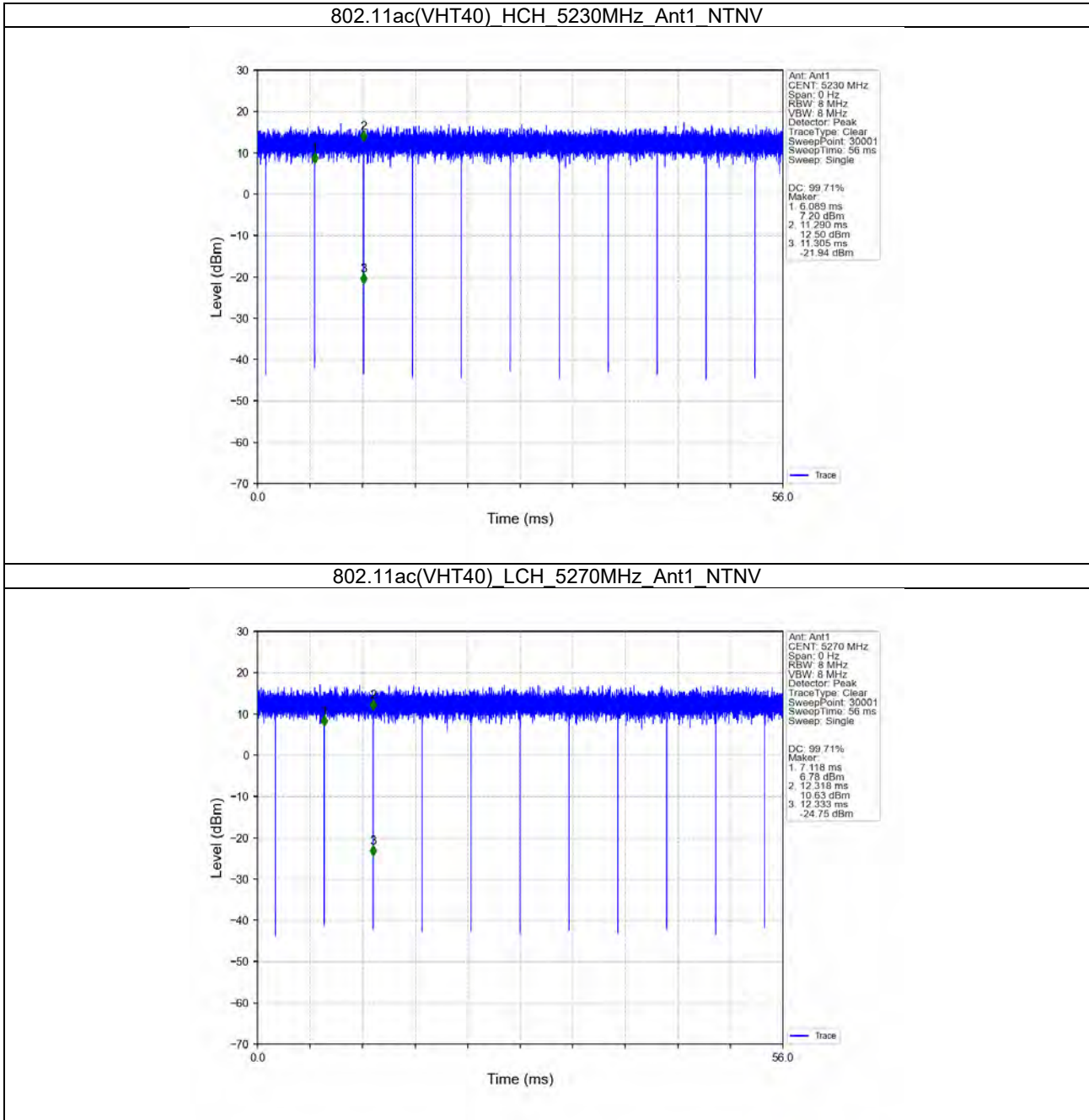
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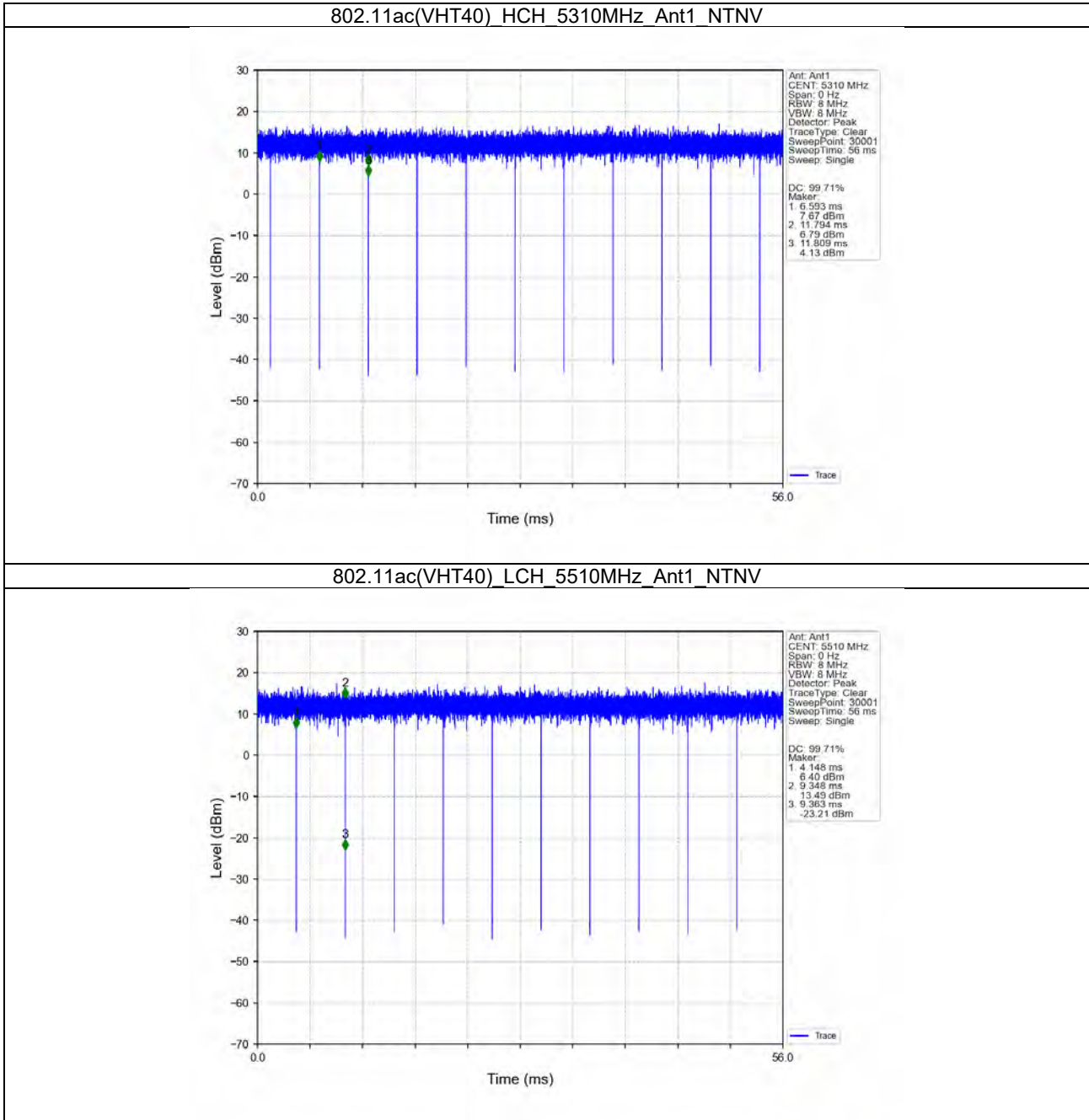
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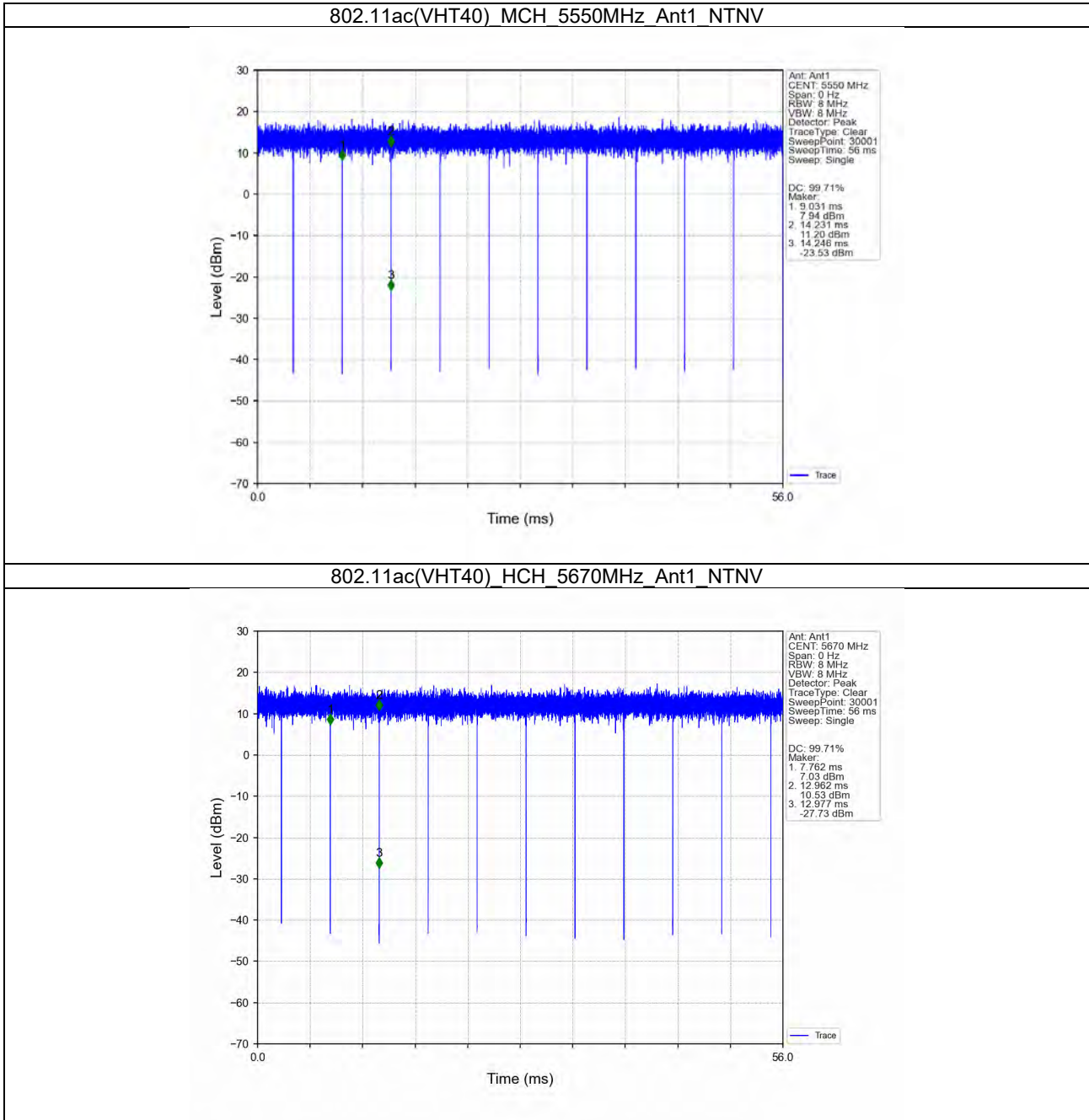
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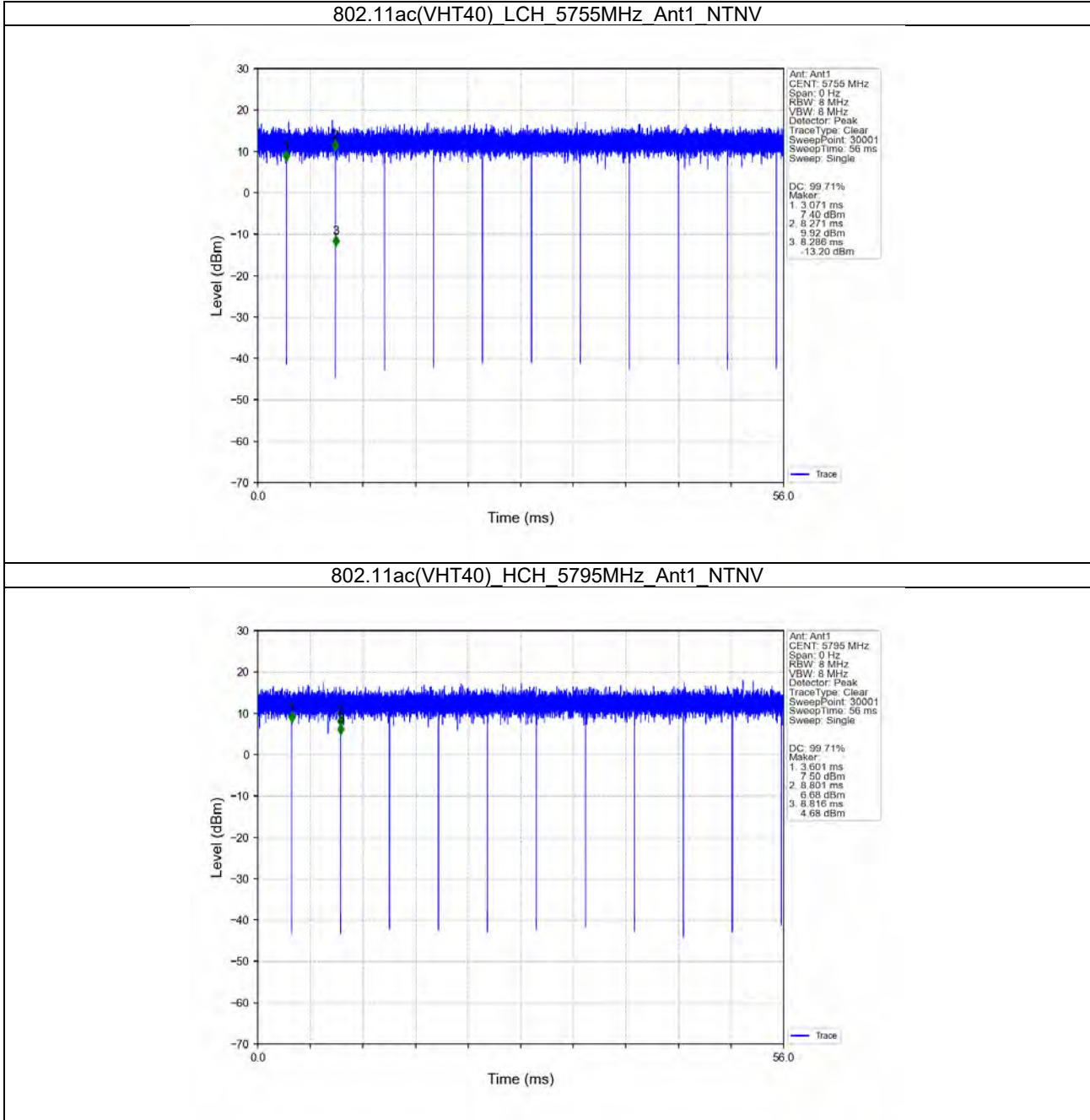
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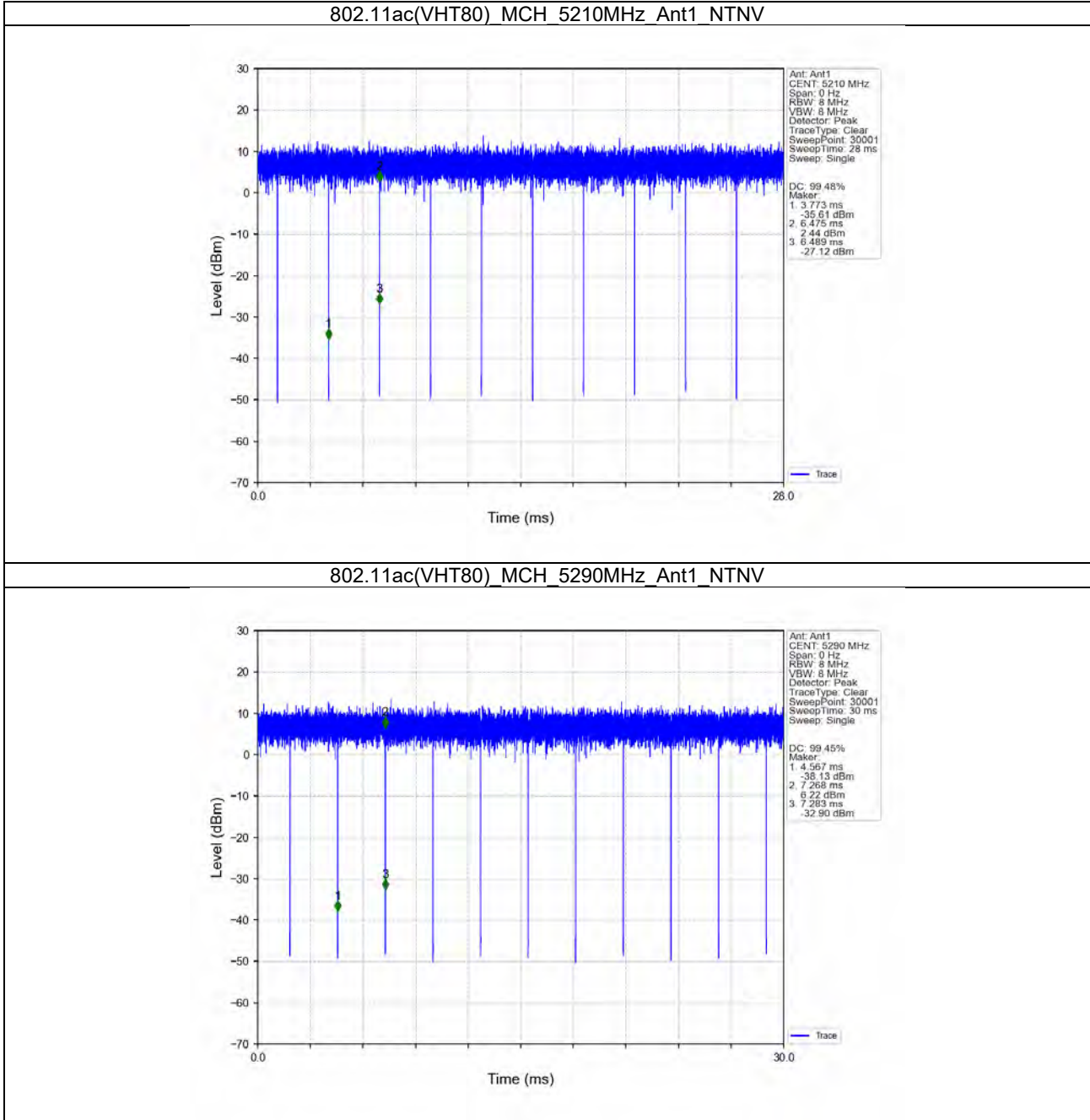
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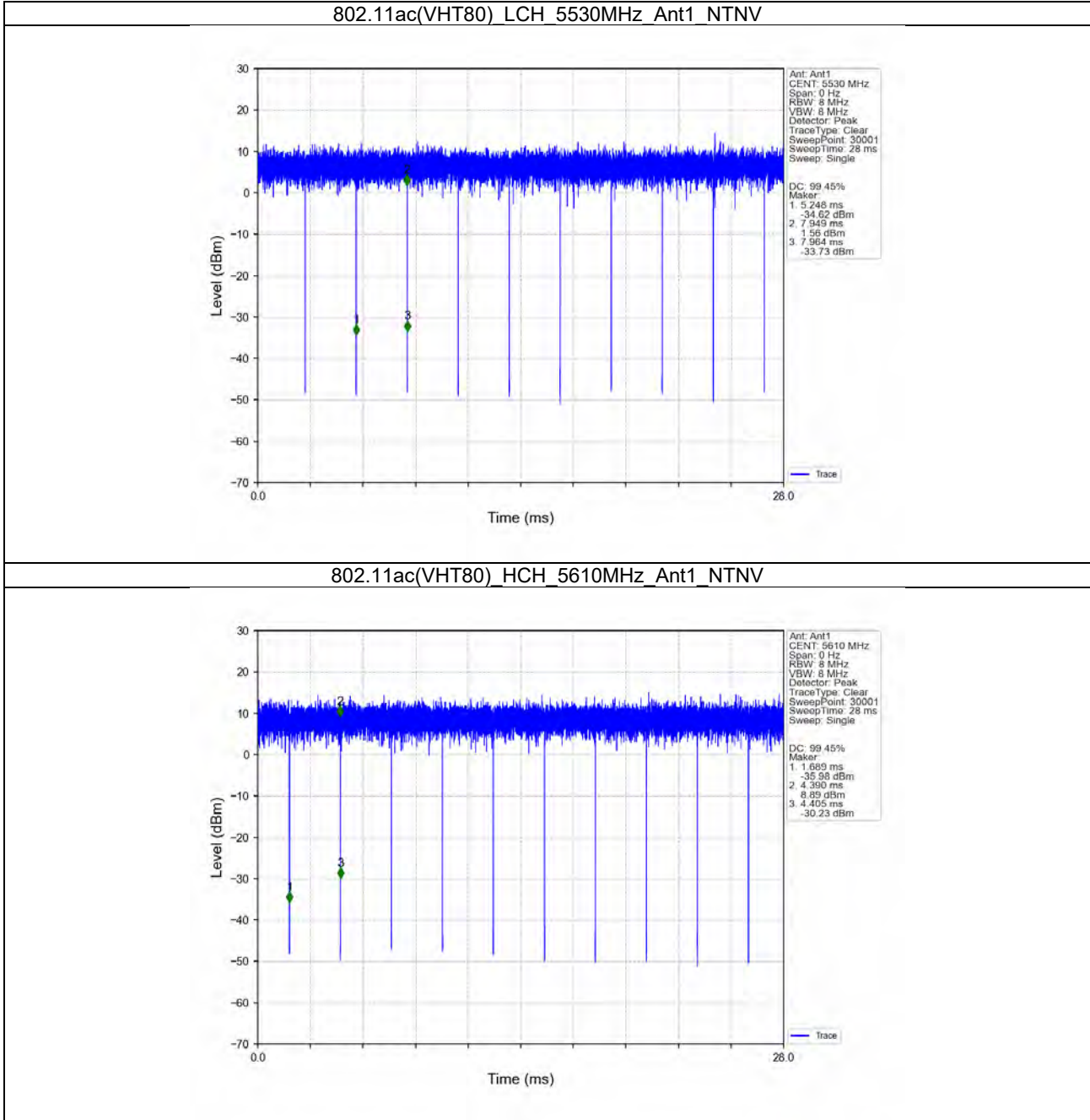
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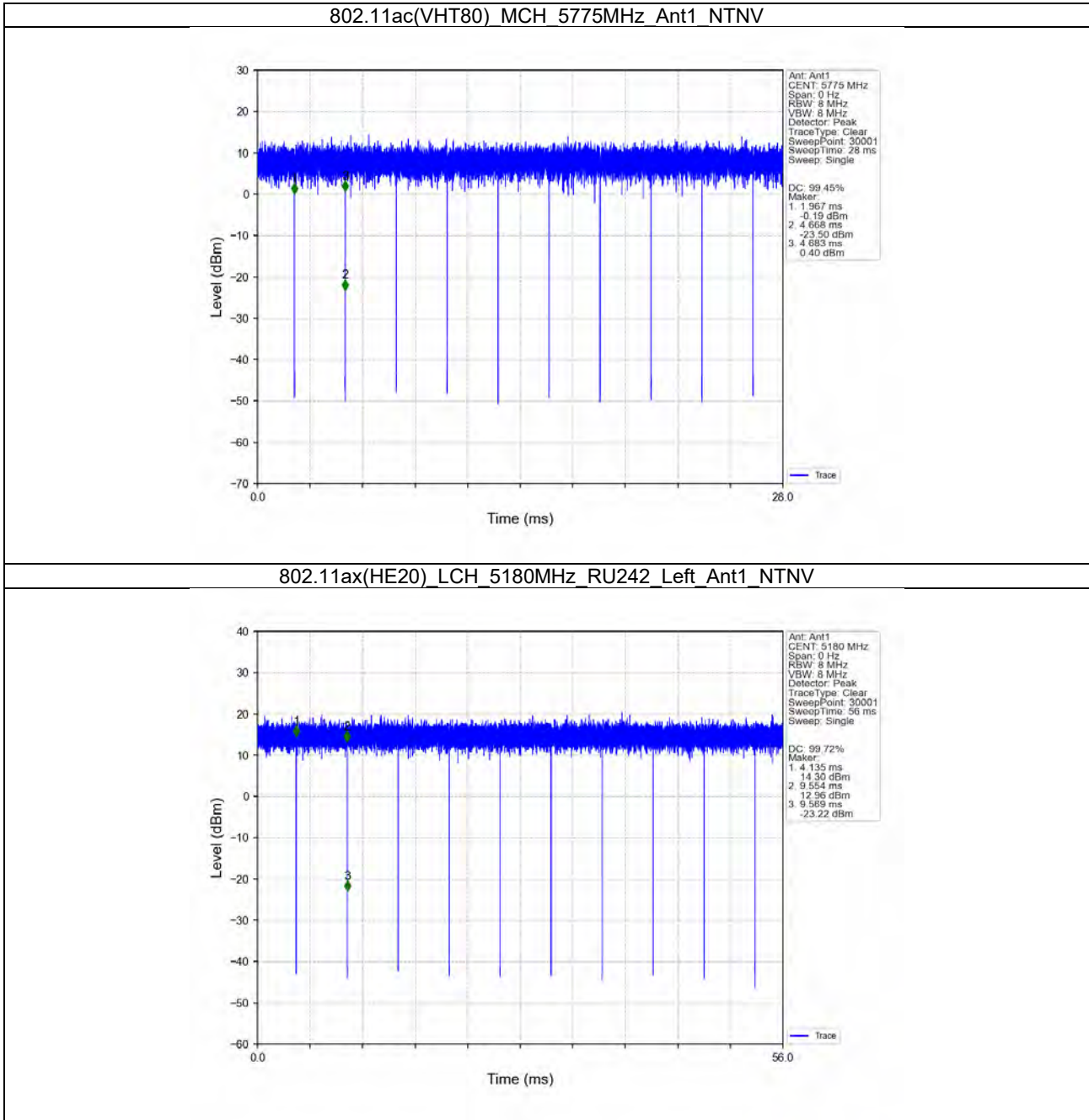
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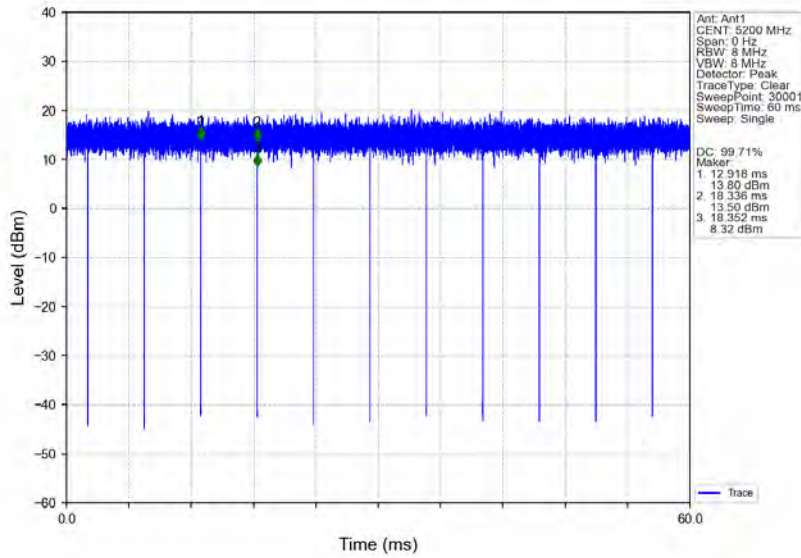


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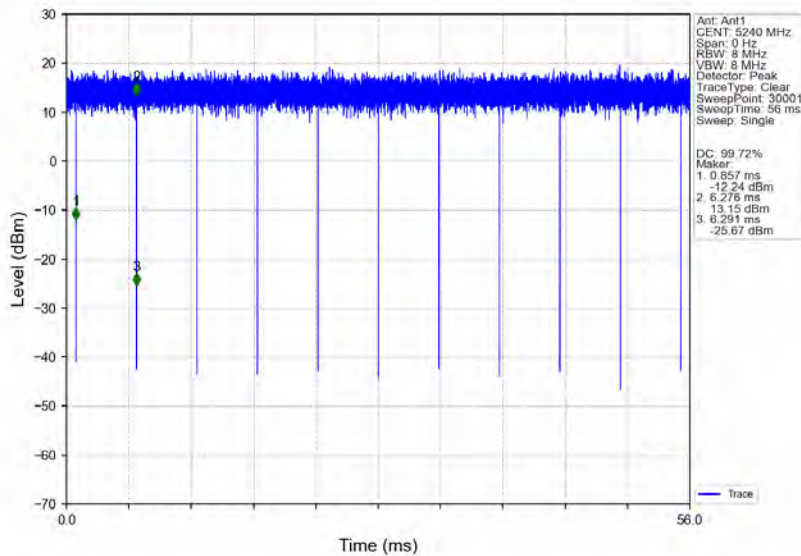
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802.11ax(HE20) MCH 5200MHz RU242 Left Ant1 NTNv



802.11ax(HE20) HCH 5240MHz RU242 Left Ant1 NTNv

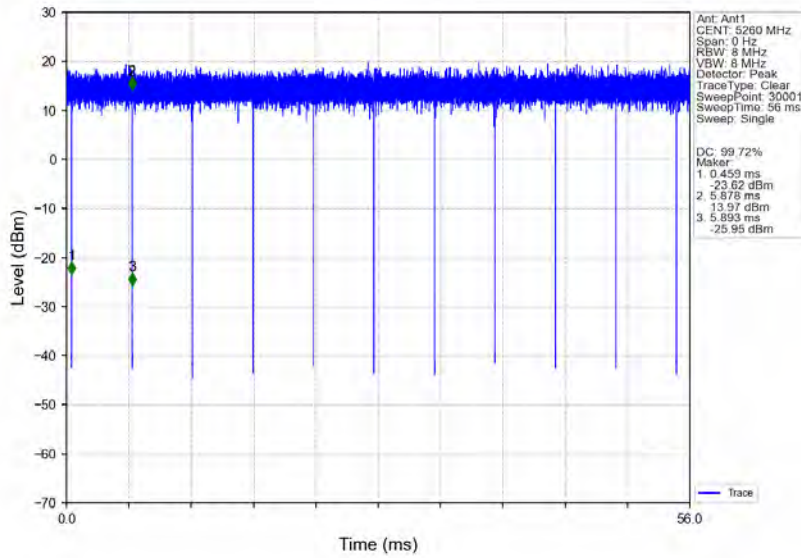


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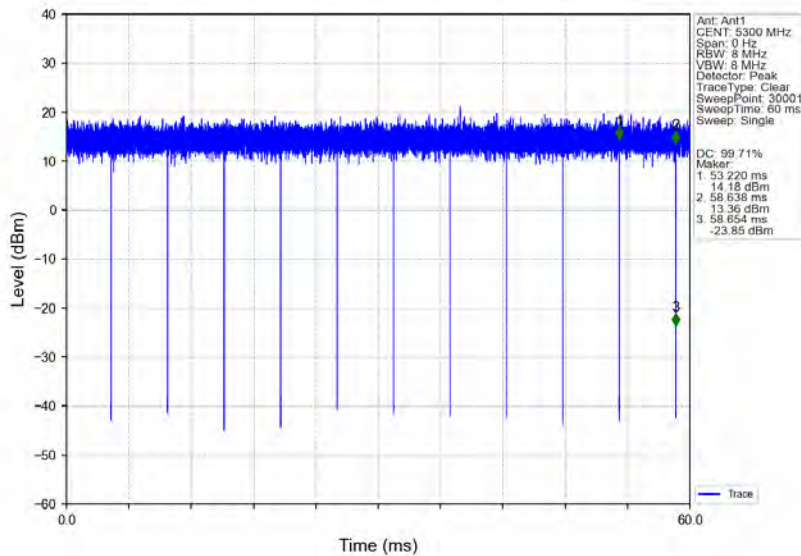
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802.11ax(HE20) LCH 5260MHz RU242 Left Ant1 NTN



802.11ax(HE20) MCH 5300MHz RU242 Left Ant1 NTN

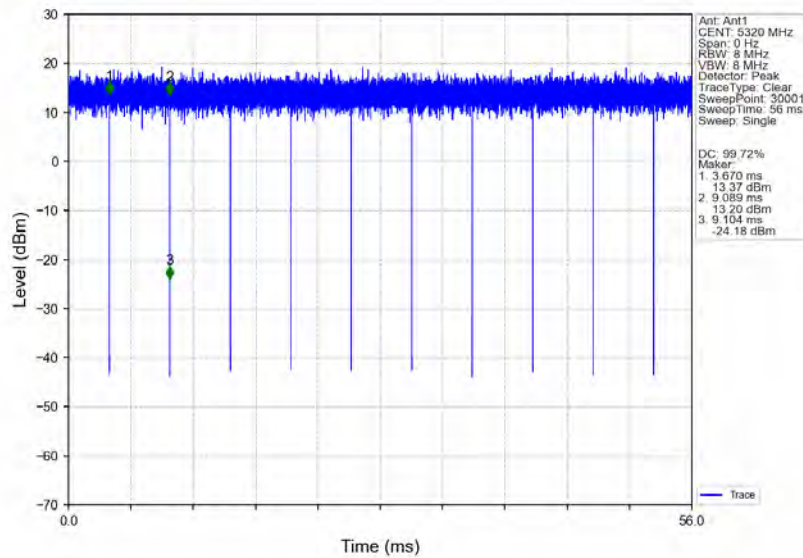


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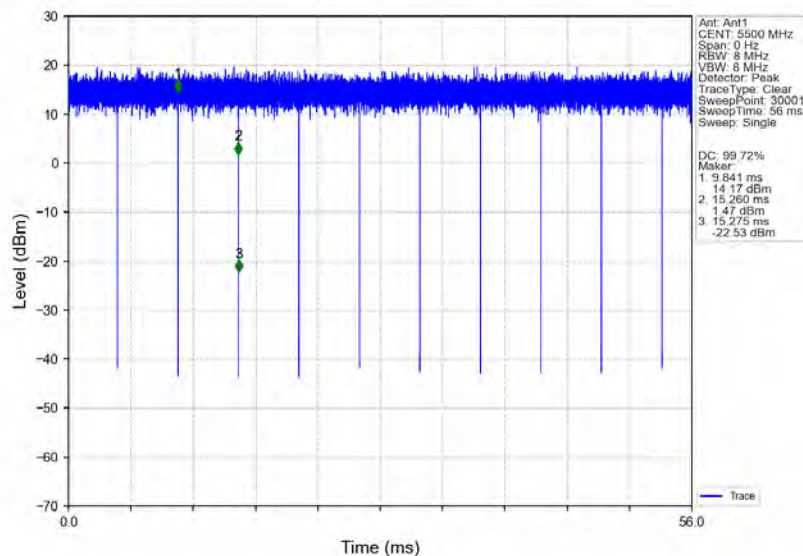
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802.11ax(HE20) HCH 5320MHz RU242 Left Ant1 NTNv



802.11ax(HE20) LCH 5500MHz RU242 Left Ant1 NTNv

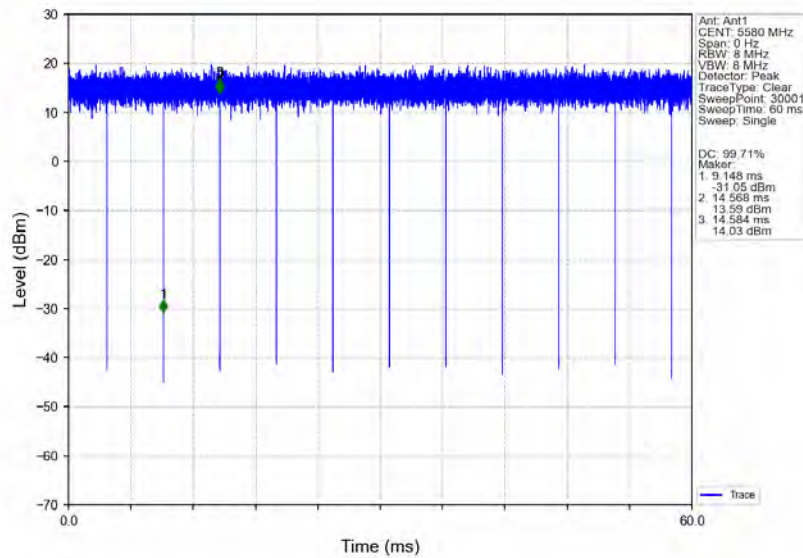


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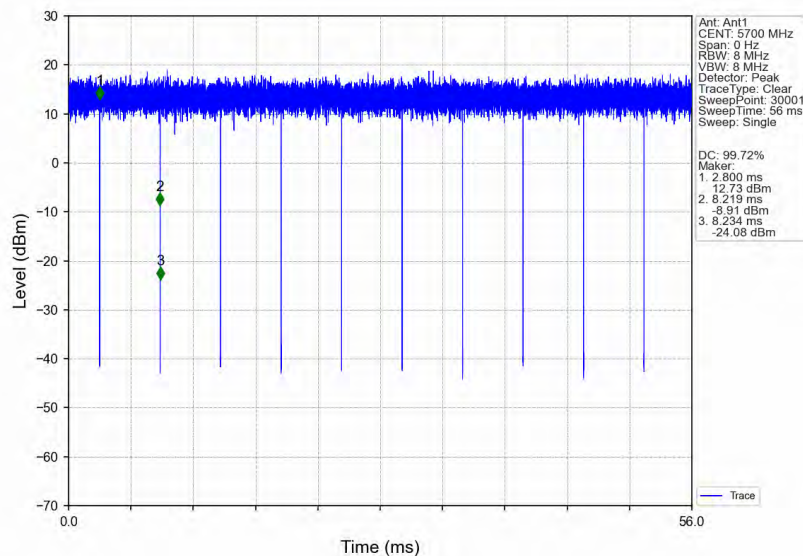
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802.11ax(HE20) MCH 5580MHz RU242 Left Ant1 NTNv



802.11ax(HE20) HCH 5700MHz RU242 Left Ant1 NTNv

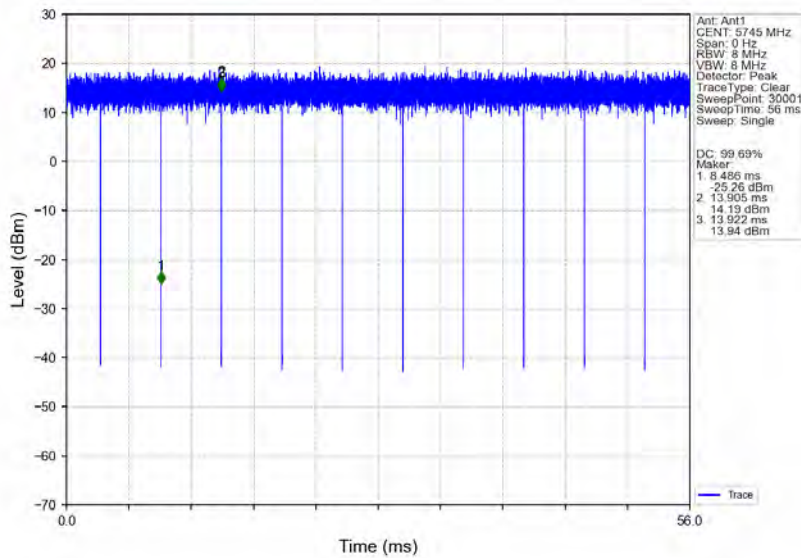


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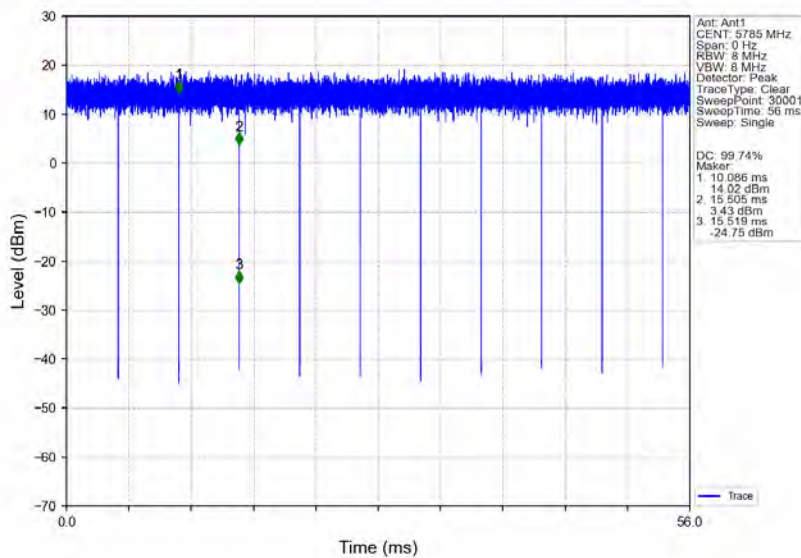
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802.11ax(HE20) LCH 5745MHz RU242 Left Ant1 NTN



802.11ax(HE20) MCH 5785MHz RU242 Left Ant1 NTN

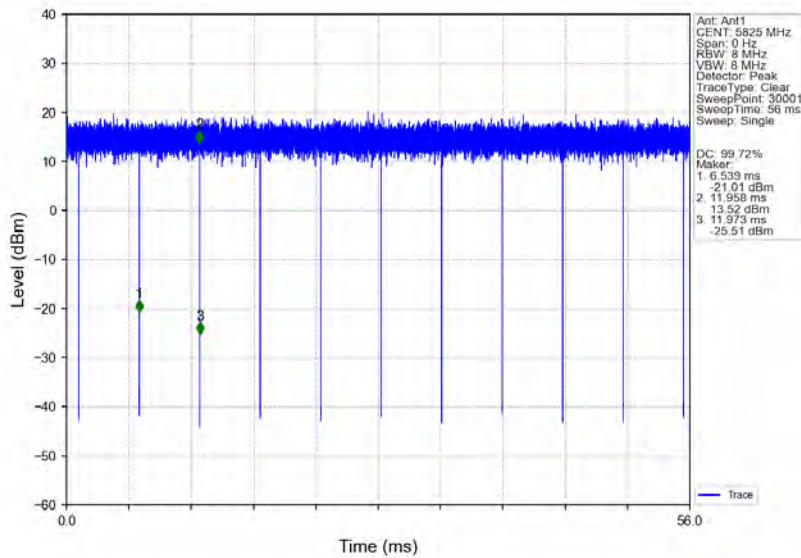


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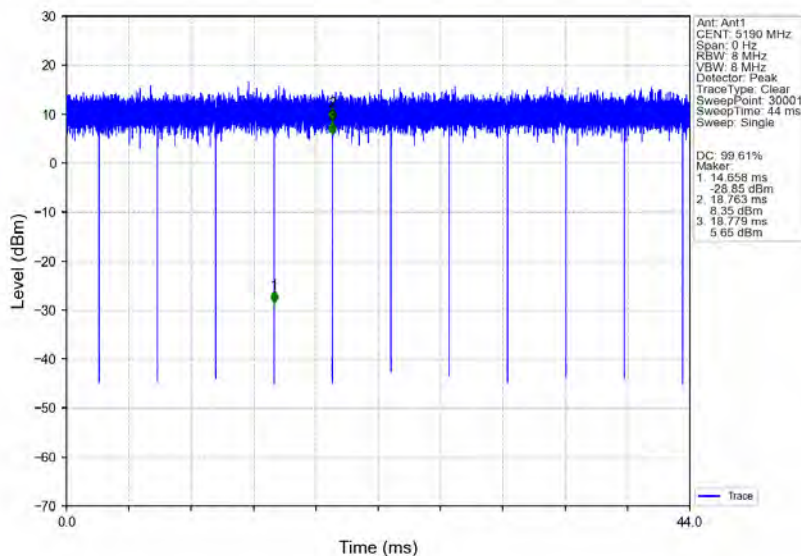
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802.11ax(HE20) HCH 5825MHz RU242 Left Ant1 NTN



802.11ax(HE40) LCH 5190MHz RU484 Left Ant1 NTN

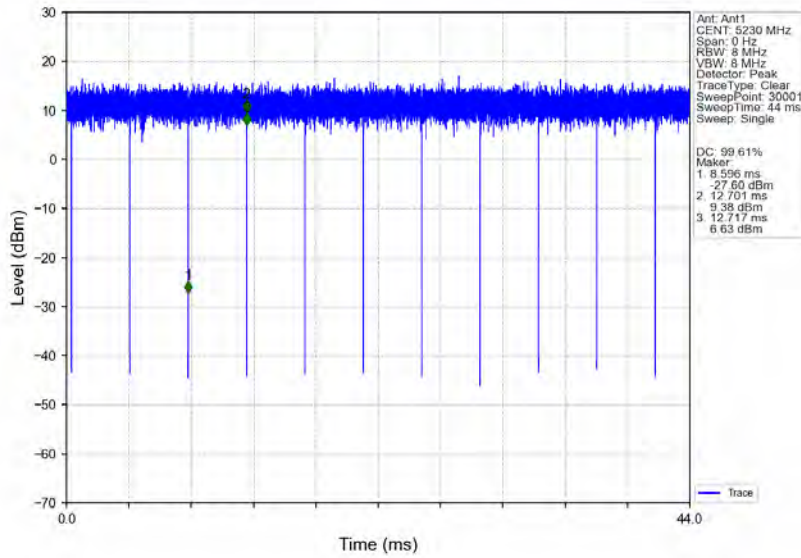


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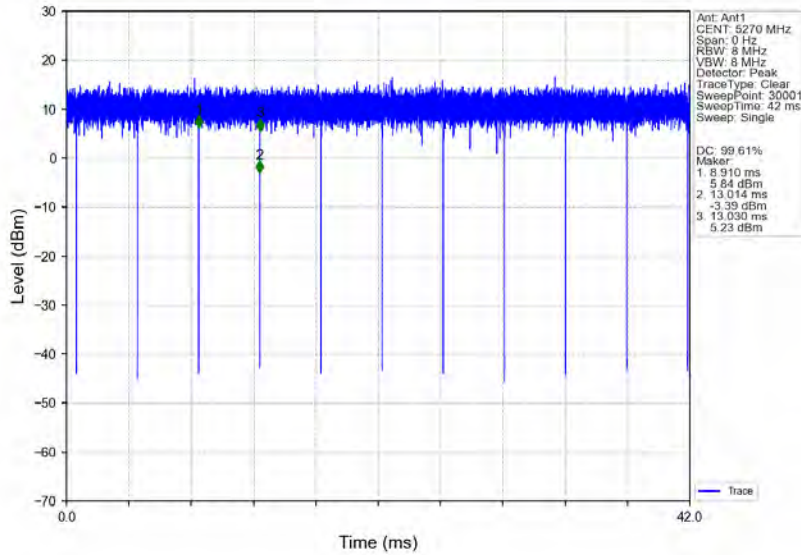
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802.11ax(HE40) HCH 5230MHz RU484 Left Ant1 NTNv



802.11ax(HE40) LCH 5270MHz RU484 Left Ant1 NTNv

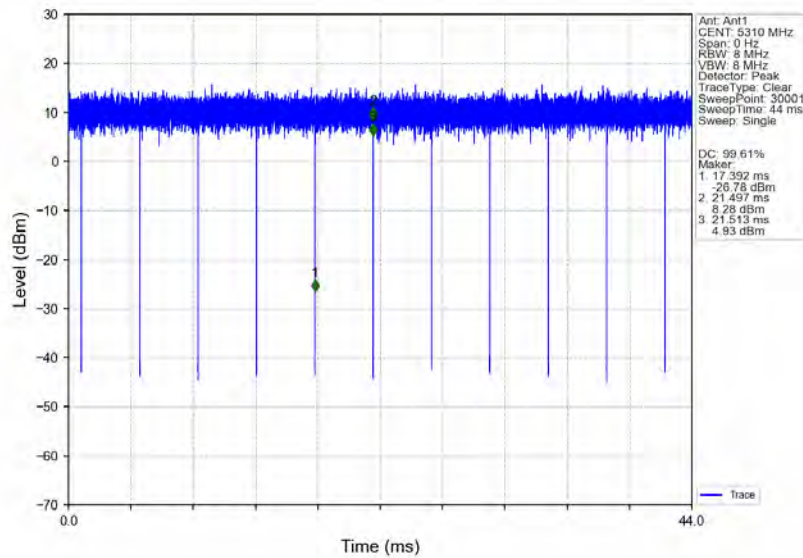


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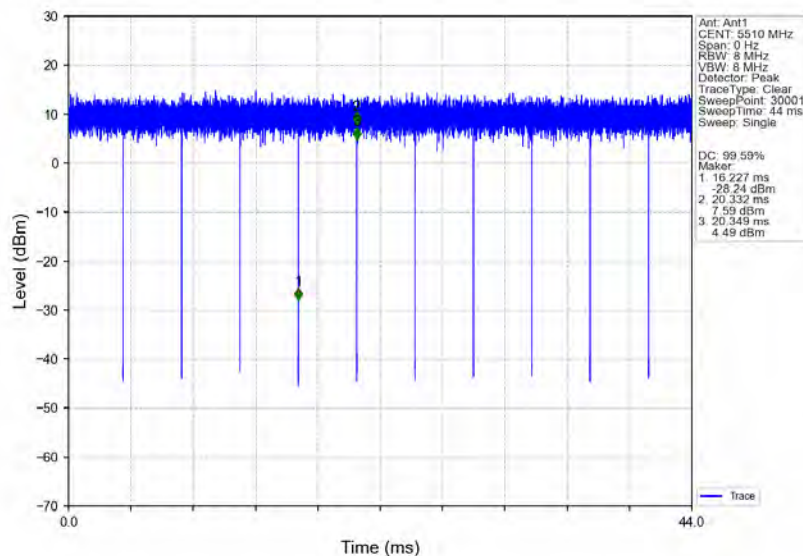
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802.11ax(HE40) HCH 5310MHz RU484 Left Ant1 NTN



802.11ax(HE40) LCH 5510MHz RU484 Left Ant1 NTN

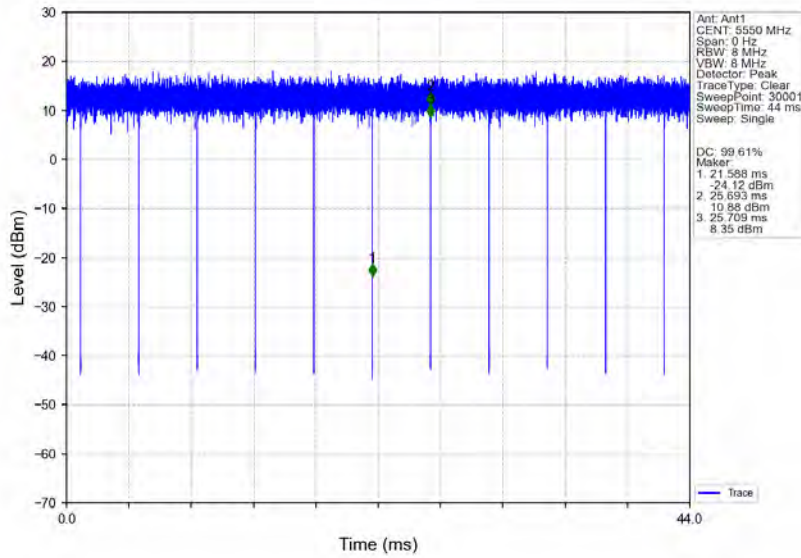


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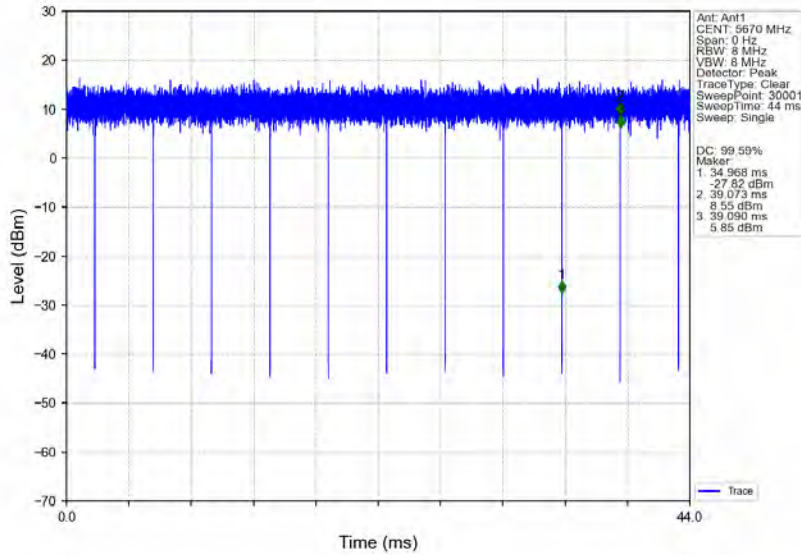
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802.11ax(HE40) MCH 5550MHz RU484 Left Ant1 NTNv



802.11ax(HE40) HCH 5670MHz RU484 Left Ant1 NTNv

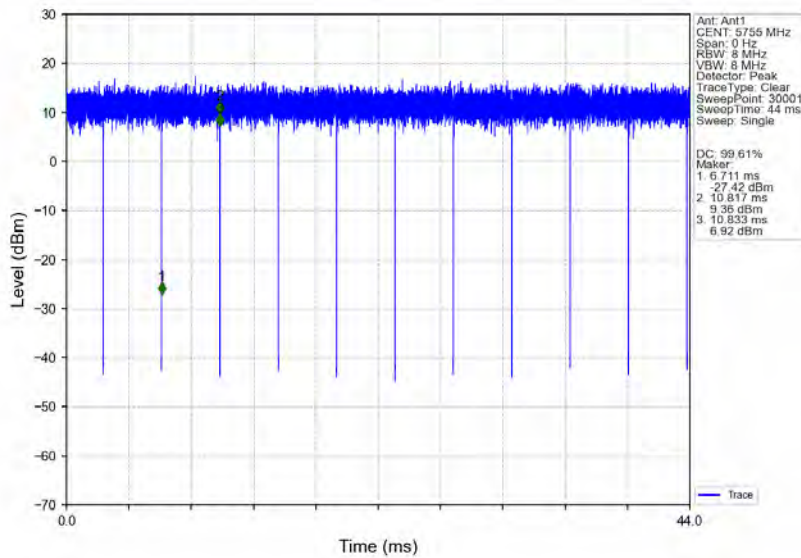


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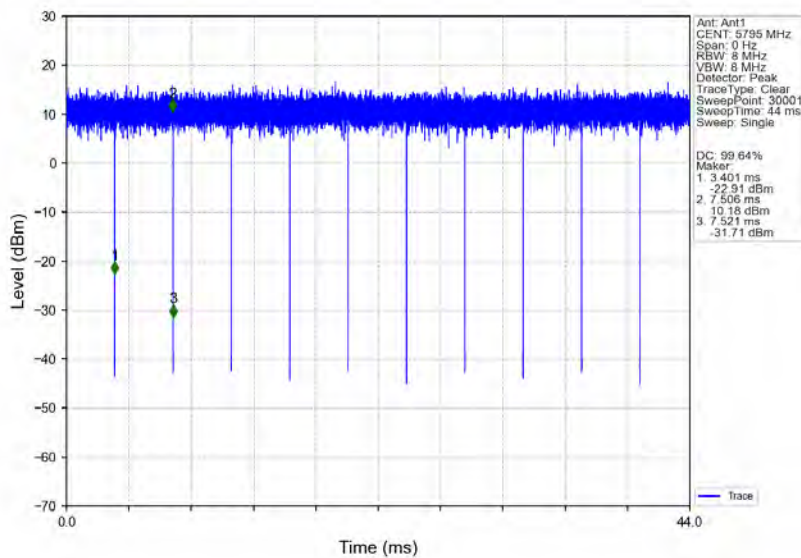
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802.11ax(HE40) LCH 5755MHz RU484 Left Ant1 NTNv



802.11ax(HE40) HCH 5795MHz RU484 Left Ant1 NTNv

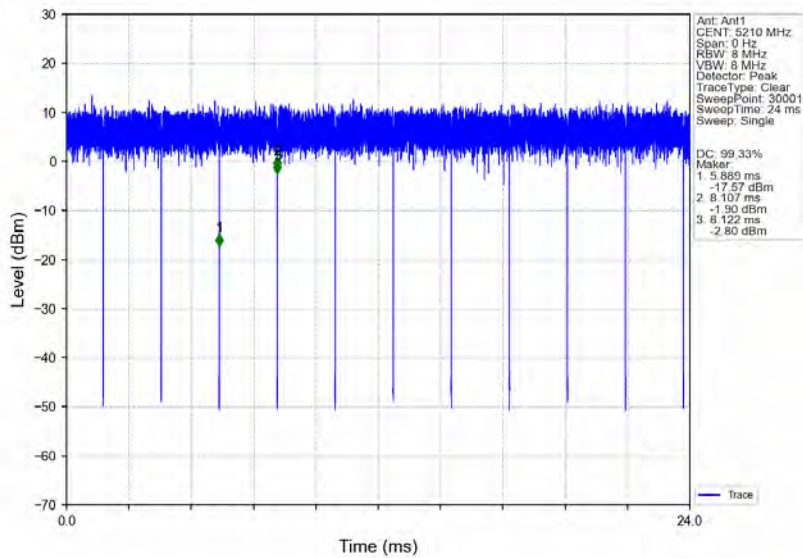


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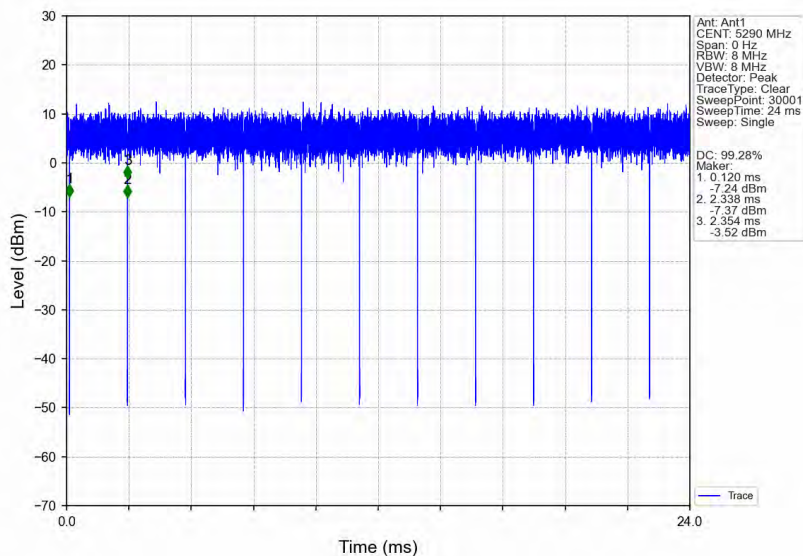
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802.11ax(HE80) MCH 5210MHz RU996 Left Ant1 NTN



802.11ax(HE80) MCH 5290MHz RU996 Left Ant1 NTN

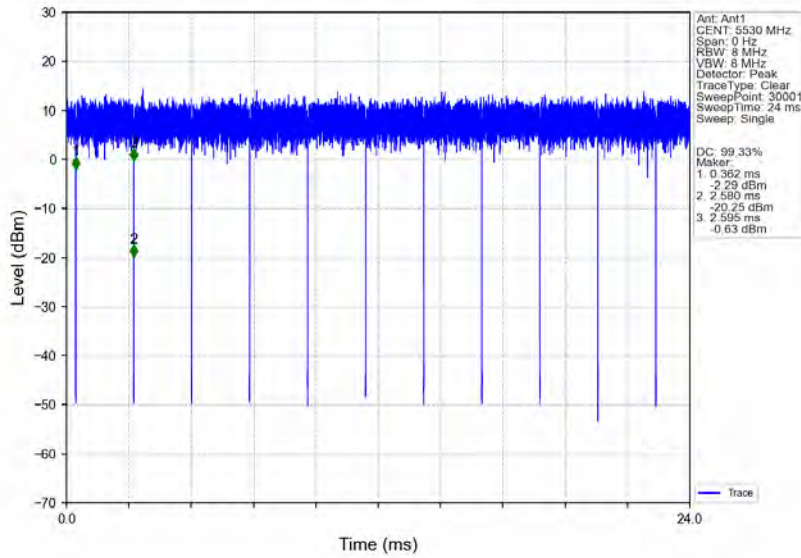


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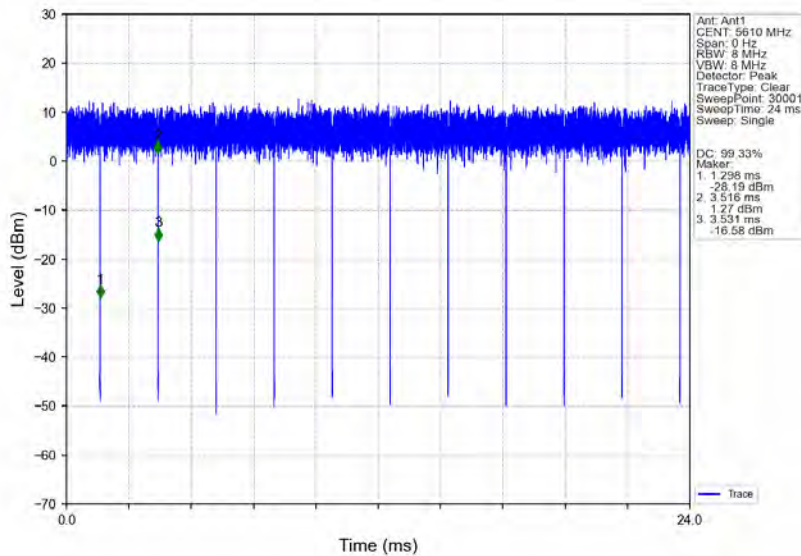
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802.11ax(HE80) LCH 5530MHz RU996 Left Ant1 NTN



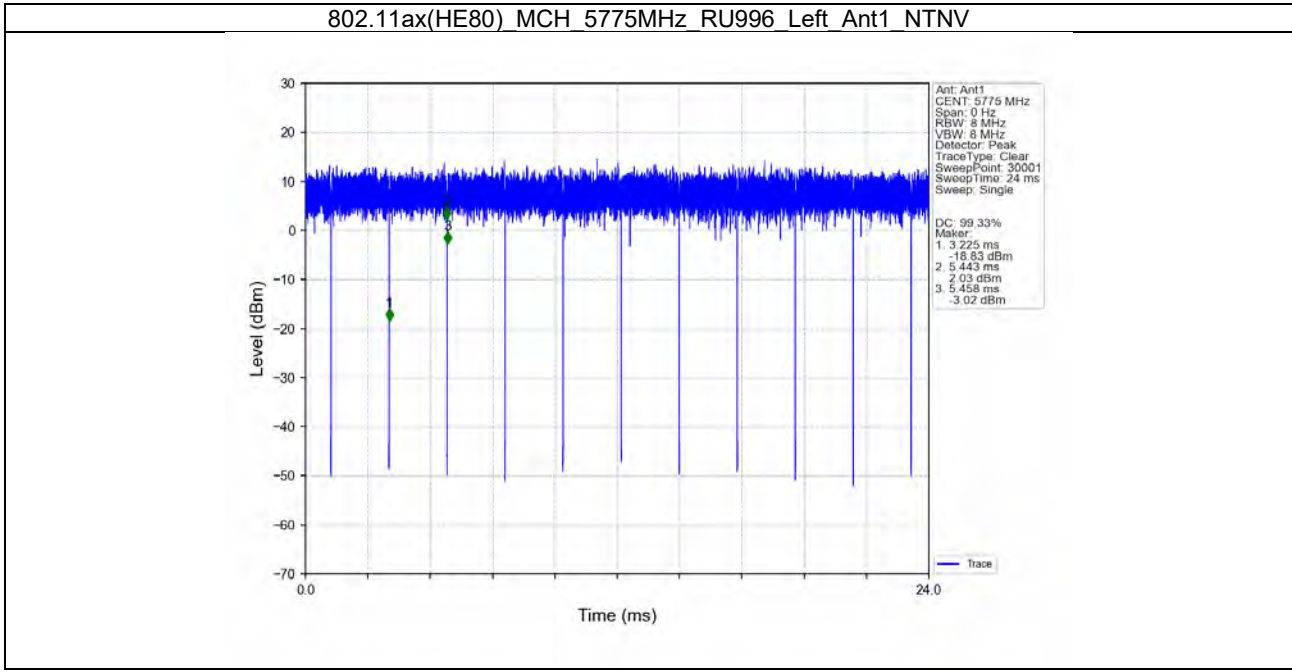
802.11ax(HE80) HCH 5610MHz RU996 Left Ant1 NTN



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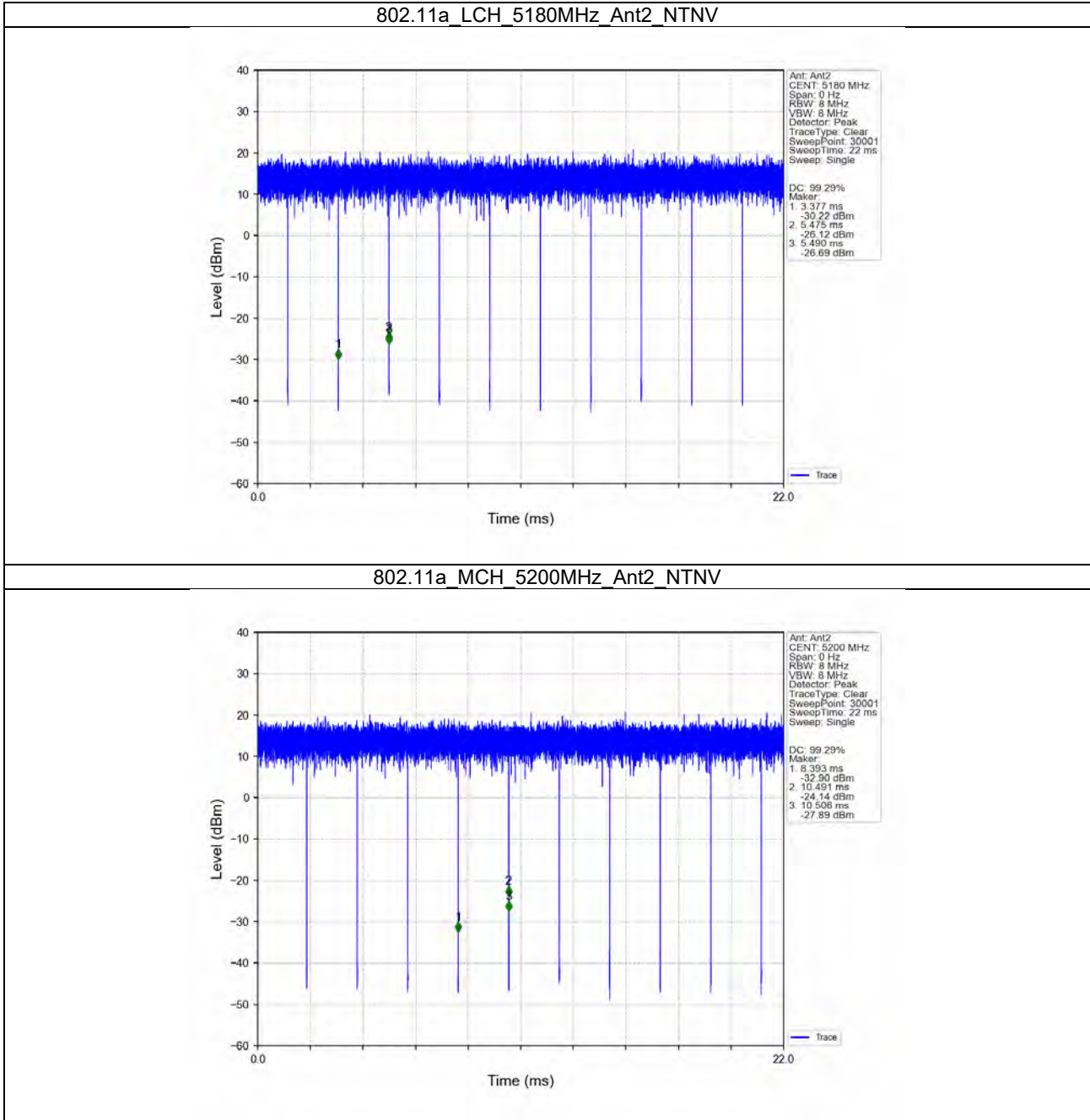


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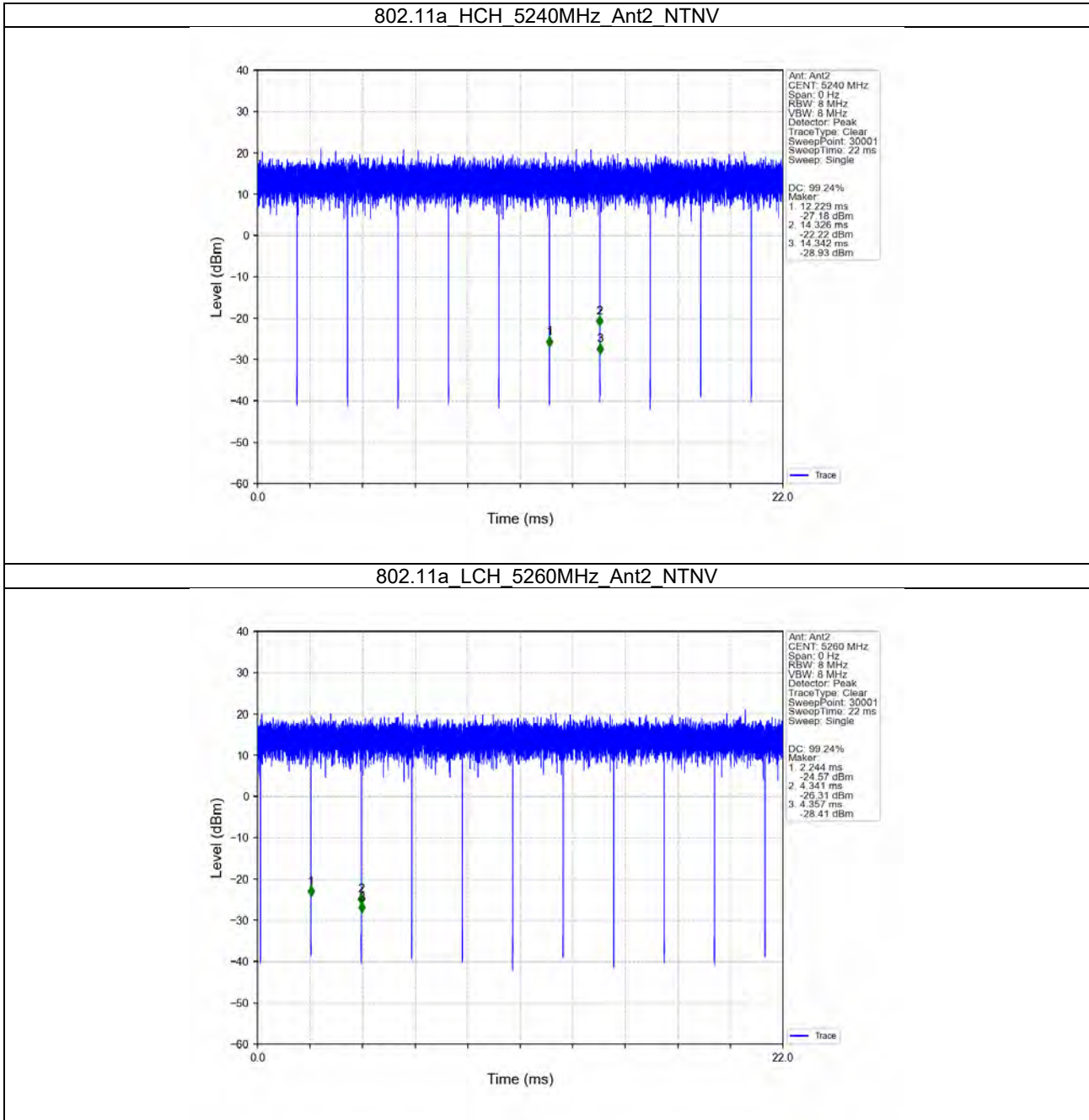
1.2.2 Ant2



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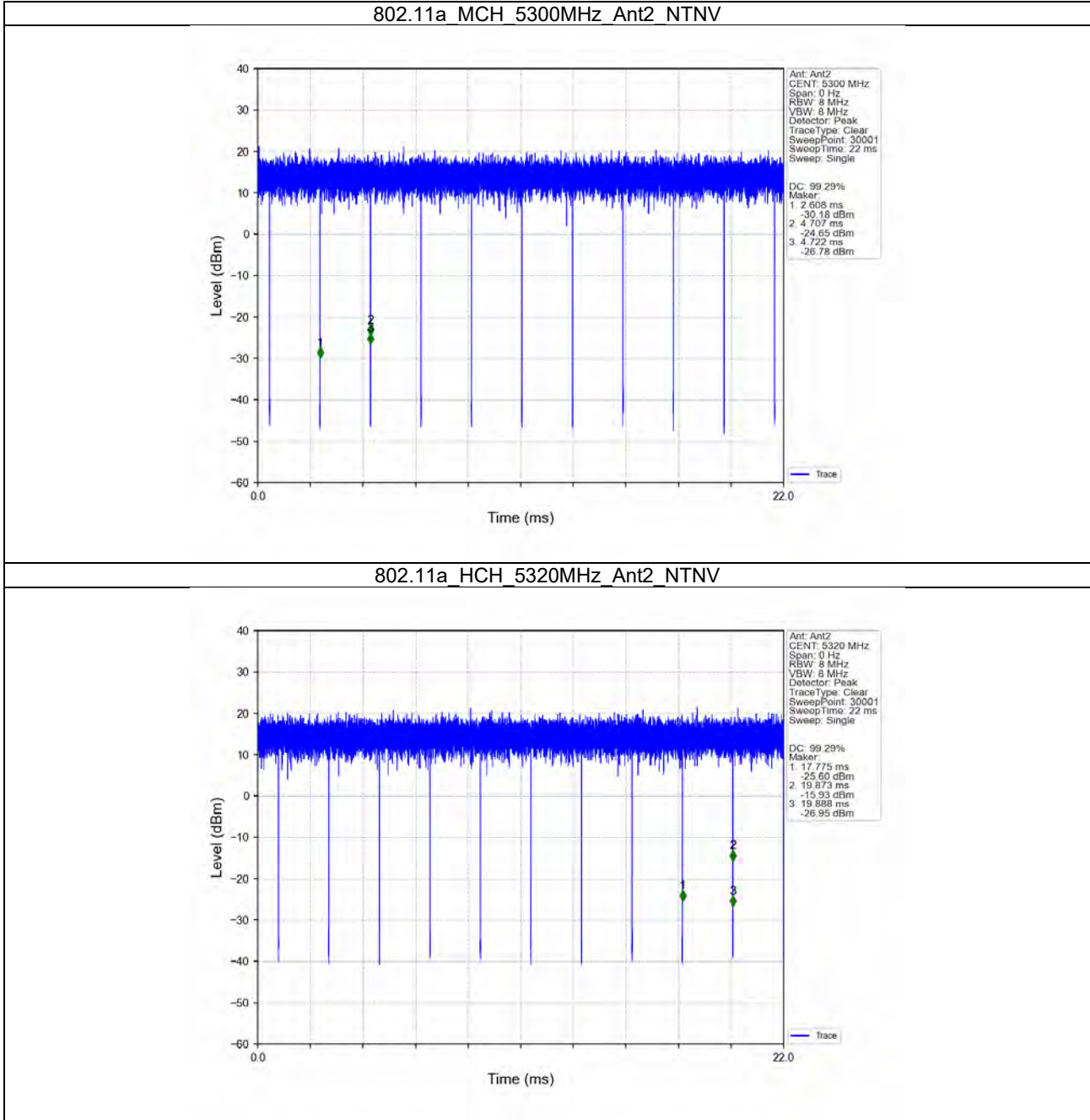
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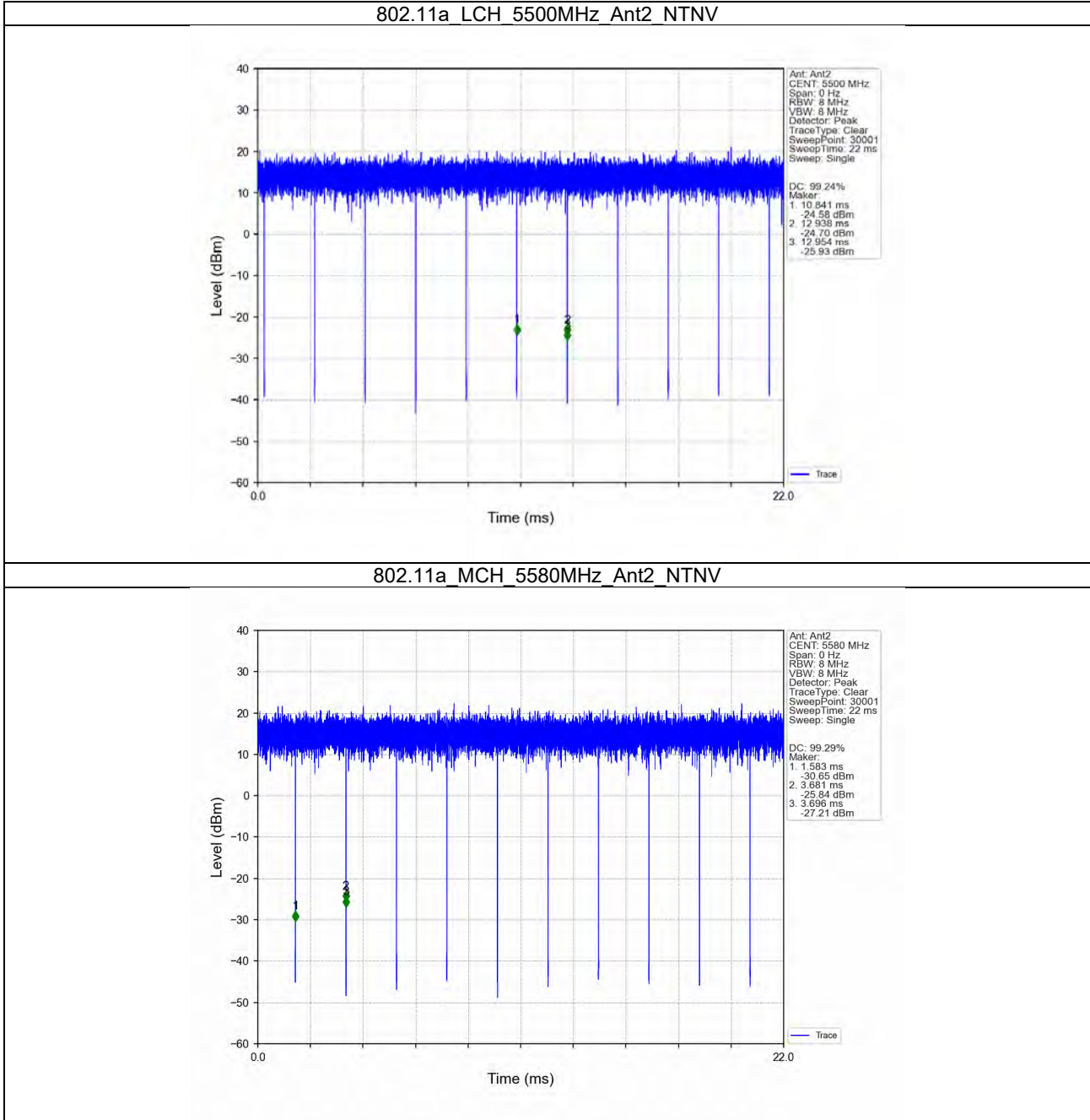
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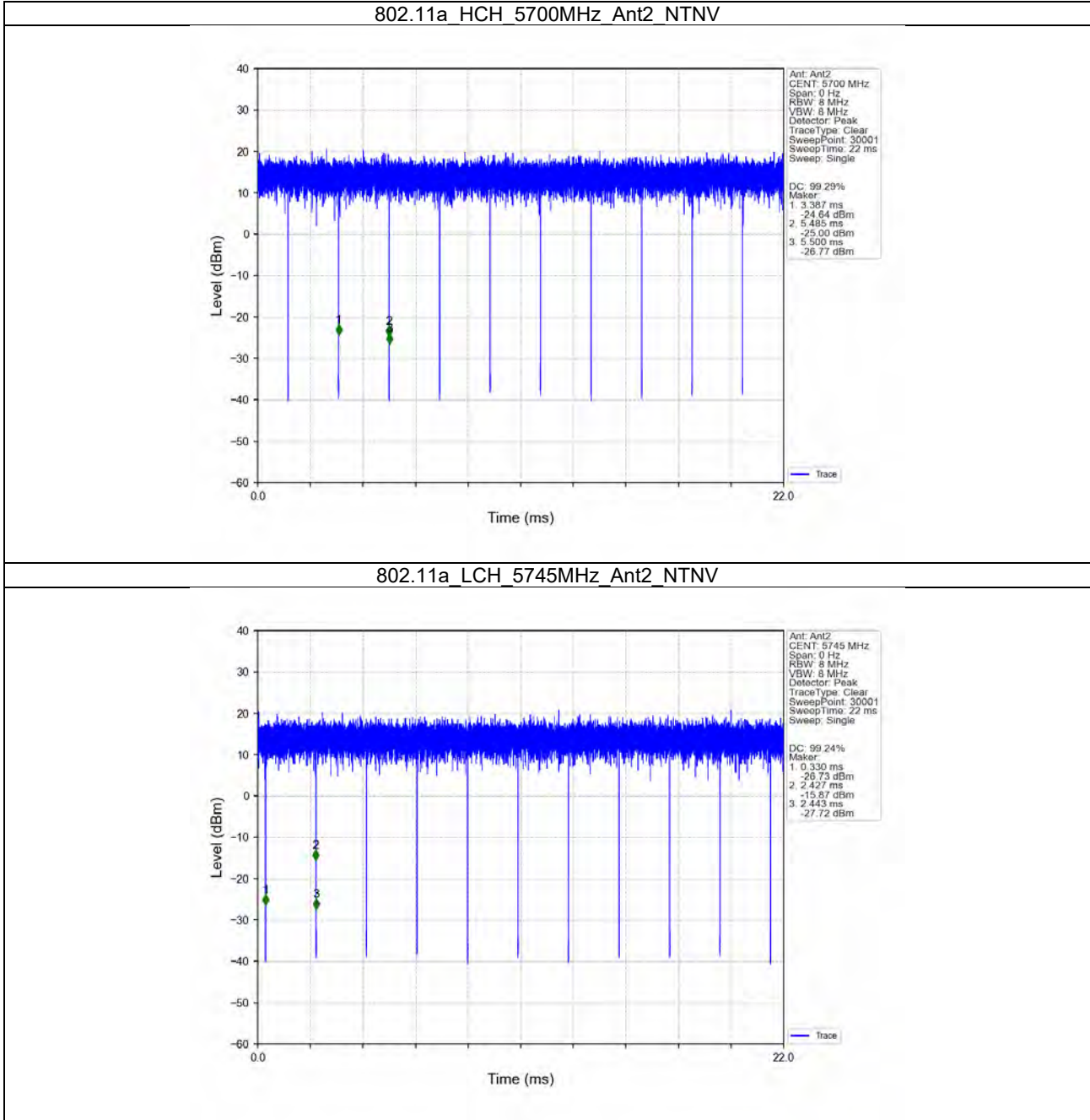
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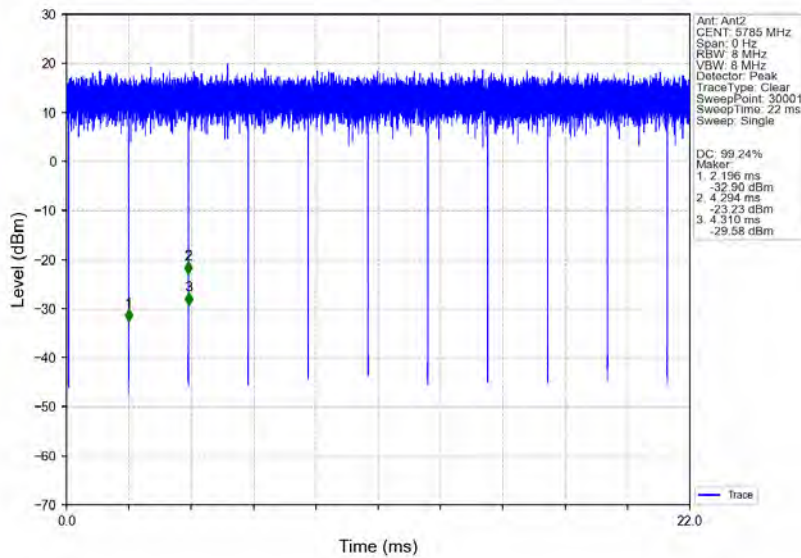


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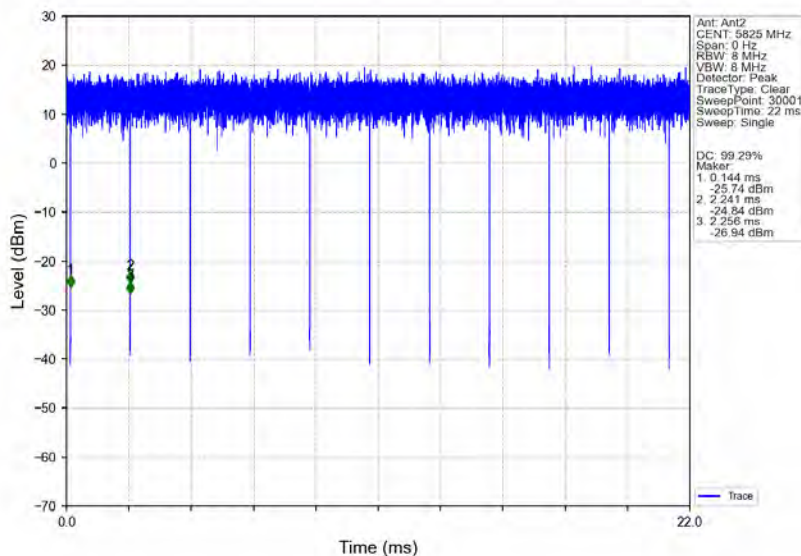
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802.11a MCH 5785MHz Ant2 NTN



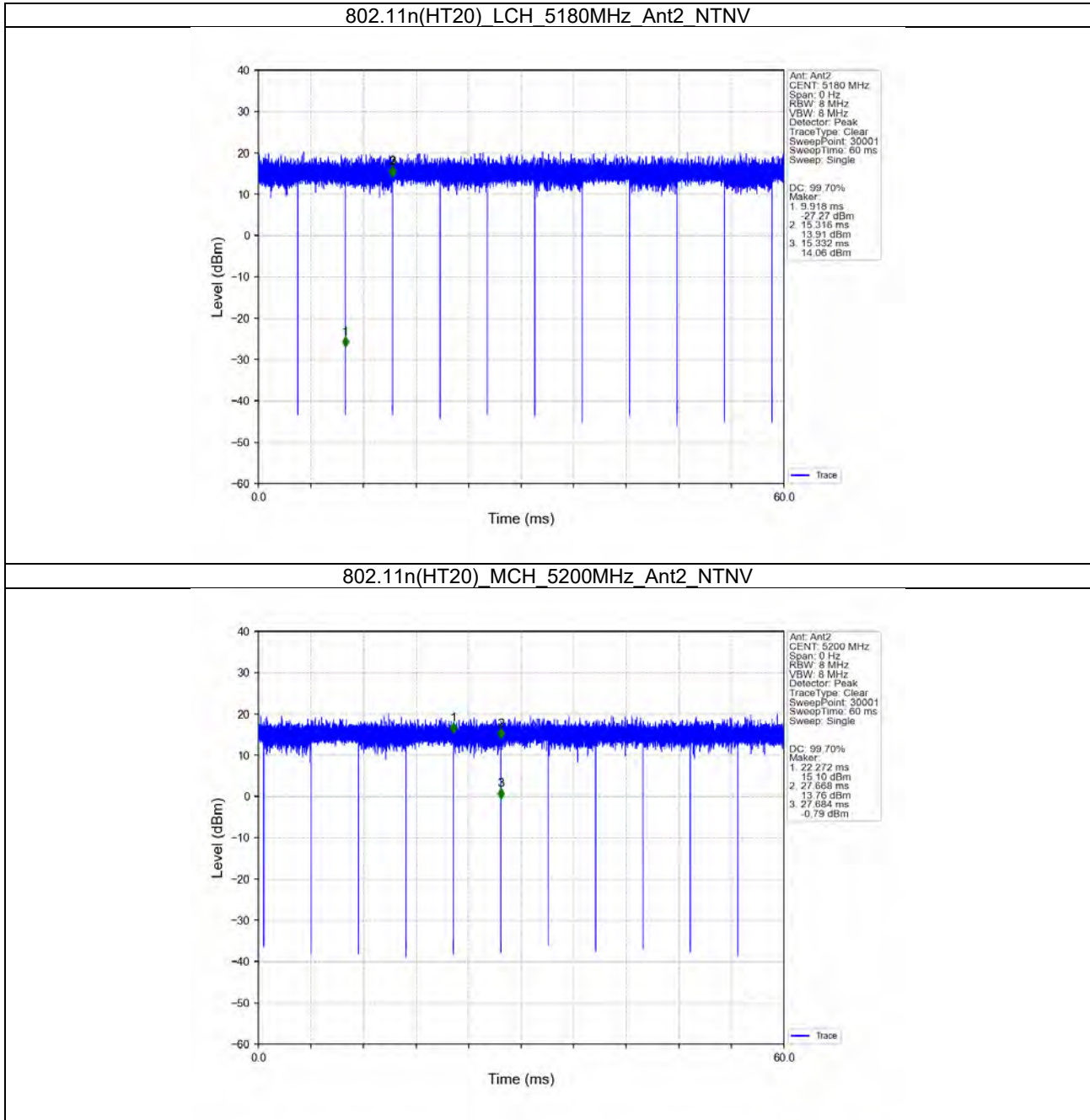
802.11a HCH 5825MHz Ant2 NTN



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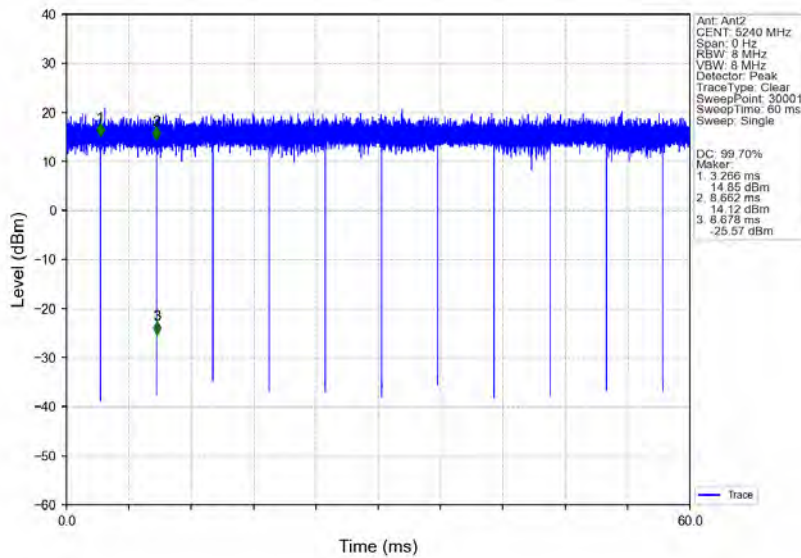


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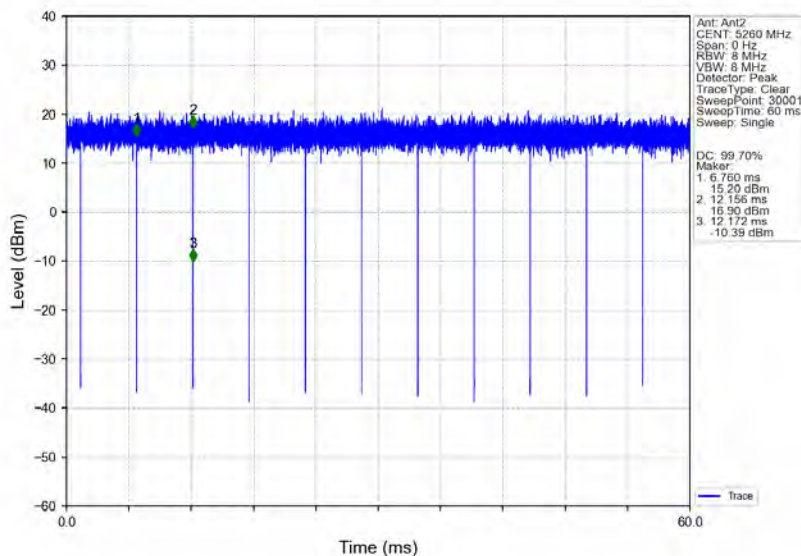
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802.11n(HT20) HCH 5240MHz Ant2 NTN



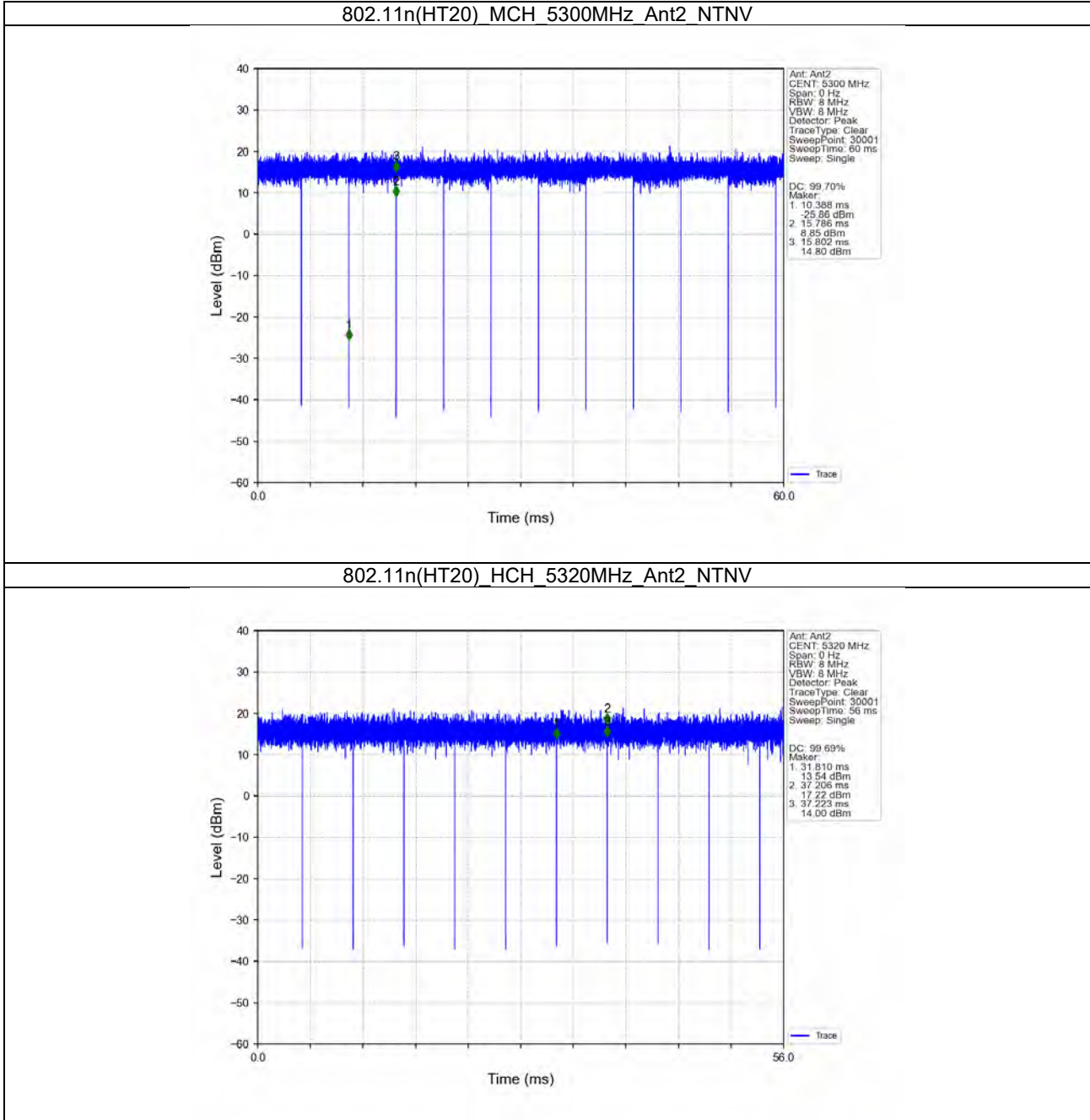
802.11n(HT20) LCH 5260MHz Ant2 NTN



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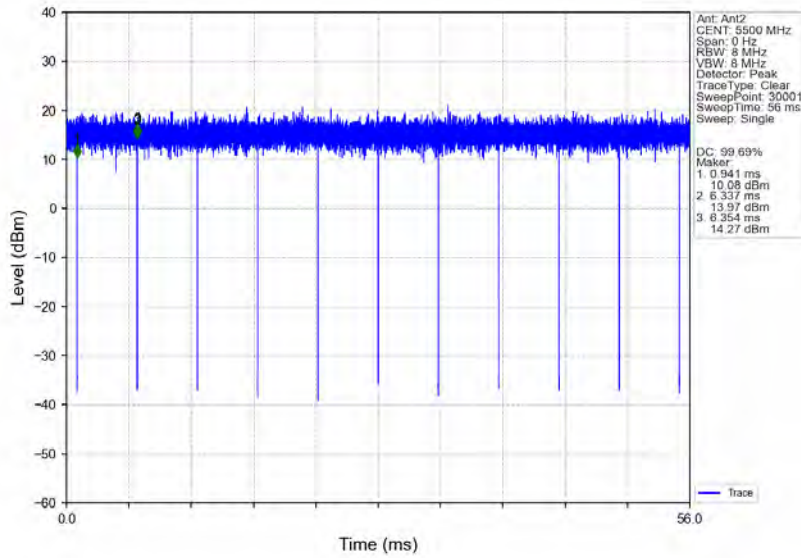


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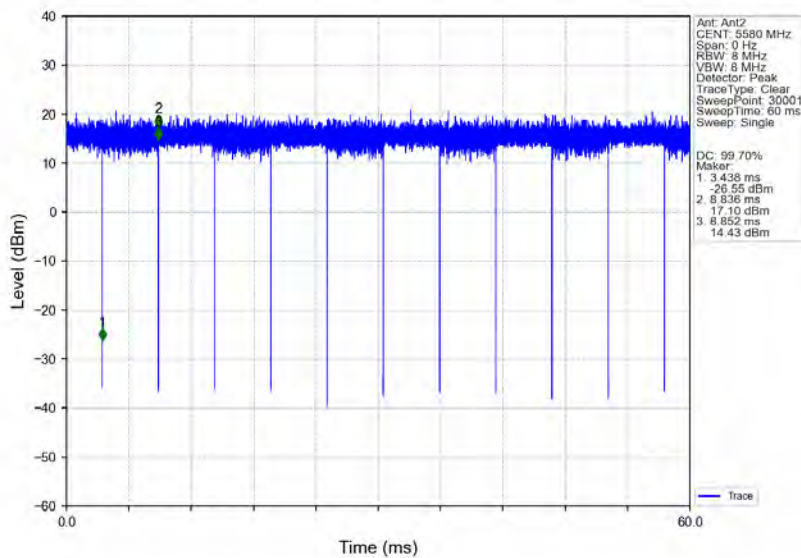
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802.11n(HT20) LCH 5500MHz Ant2 NTN



802.11n(HT20) MCH 5580MHz Ant2 NTN

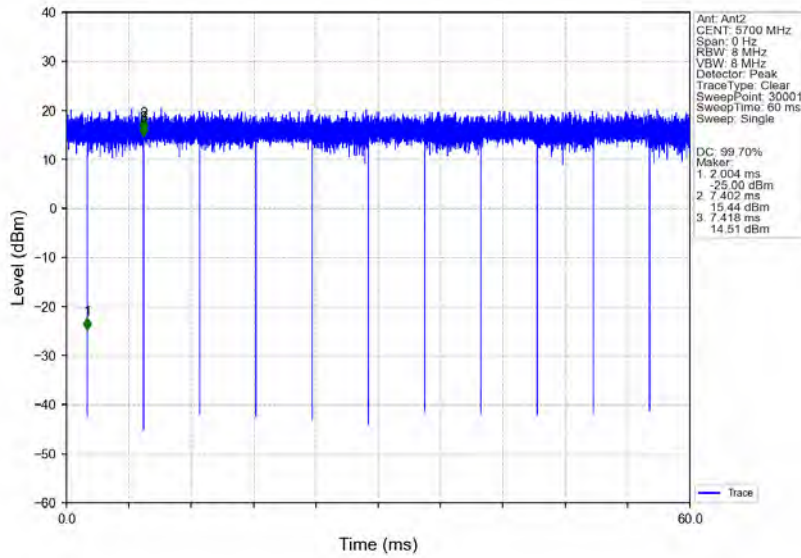


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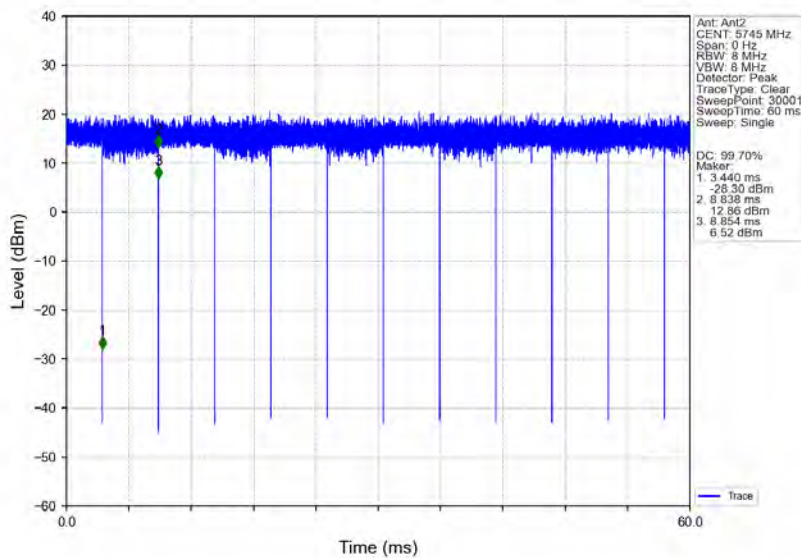
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802.11n(HT20) HCH 5700MHz Ant2 NTN



802.11n(HT20) LCH 5745MHz Ant2 NTN

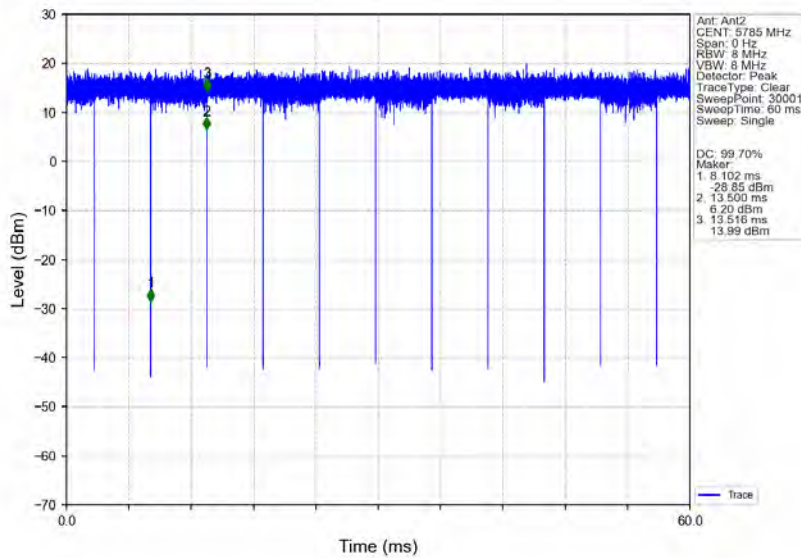


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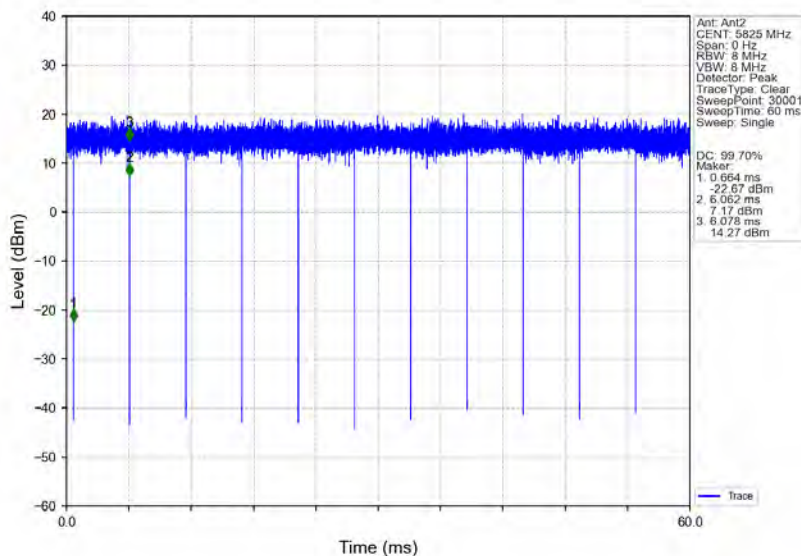
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802.11n(HT20) MCH 5785MHz Ant2 NTN



802.11n(HT20) HCH 5825MHz Ant2 NTN

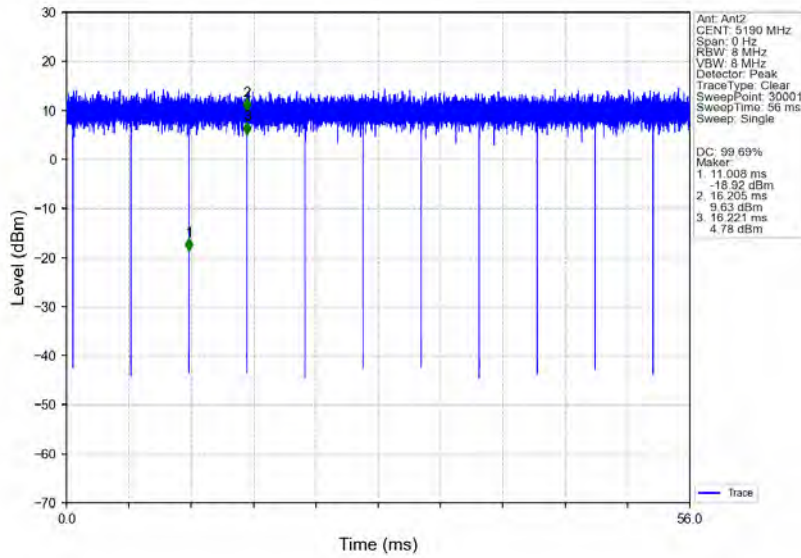


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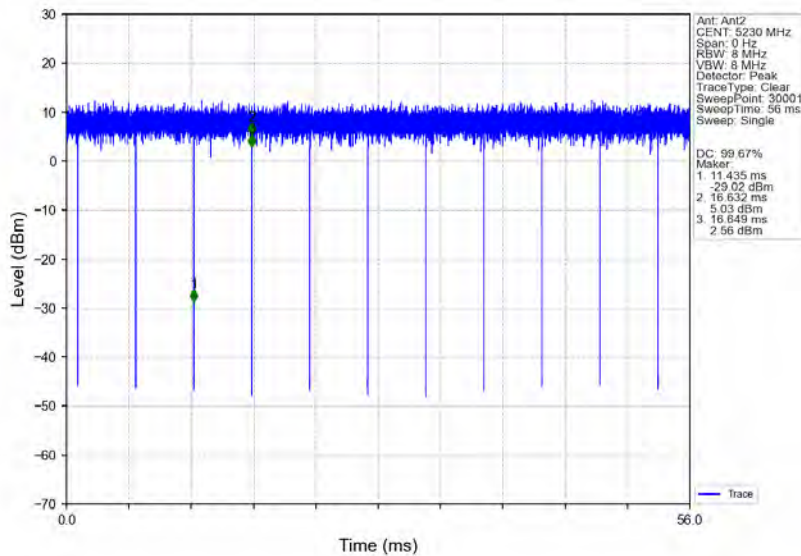
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802.11n(HT40) LCH 5190MHz Ant2 NTN



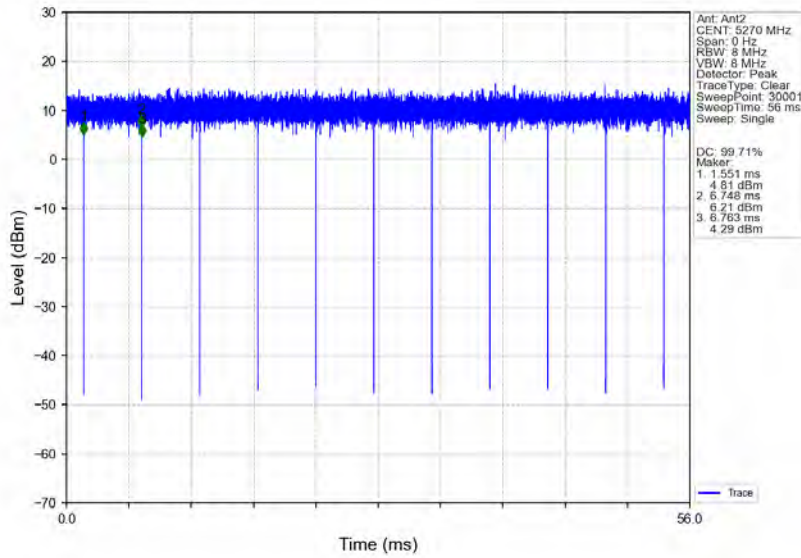
802.11n(HT40) HCH 5230MHz Ant2 NTN



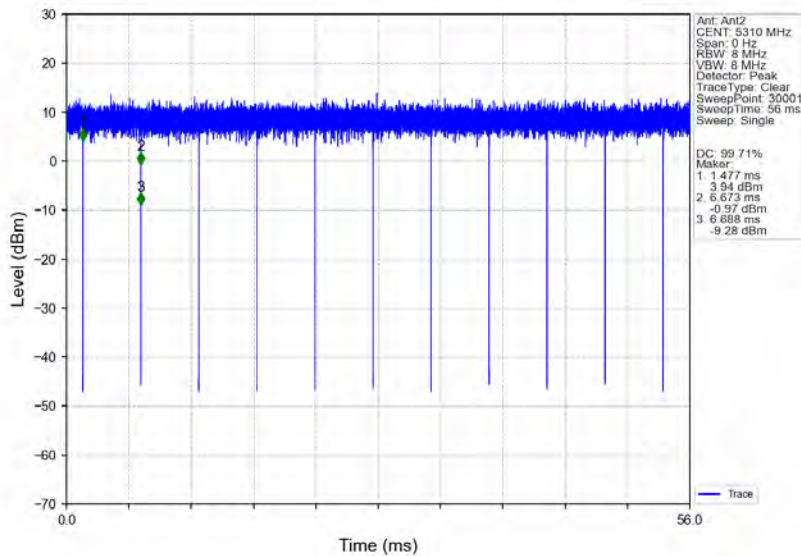
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802.11n(HT40) LCH 5270MHz Ant2 NTN



802.11n(HT40) HCH 5310MHz Ant2 NTN

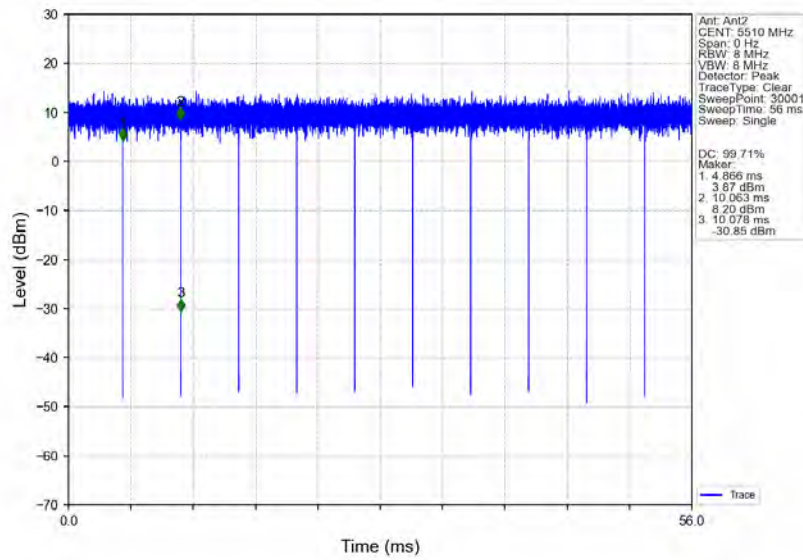


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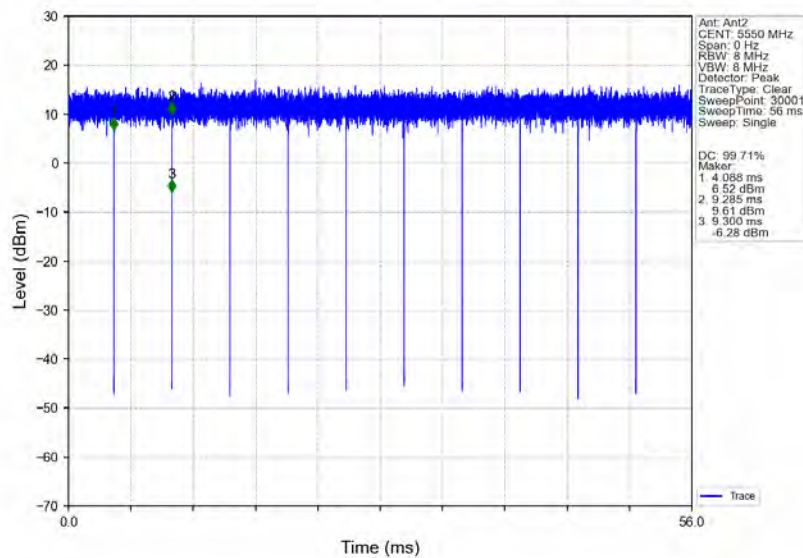
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802.11n(HT40) LCH 5510MHz Ant2 NTN



802.11n(HT40) MCH 5550MHz Ant2 NTN

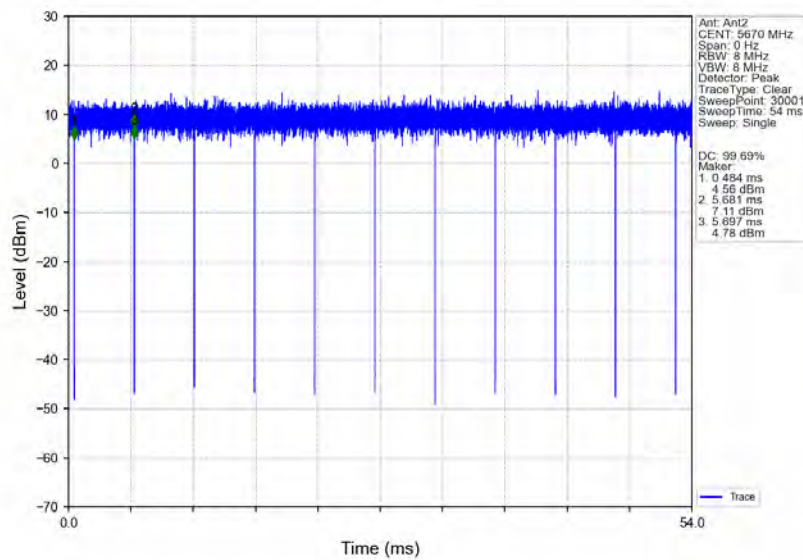


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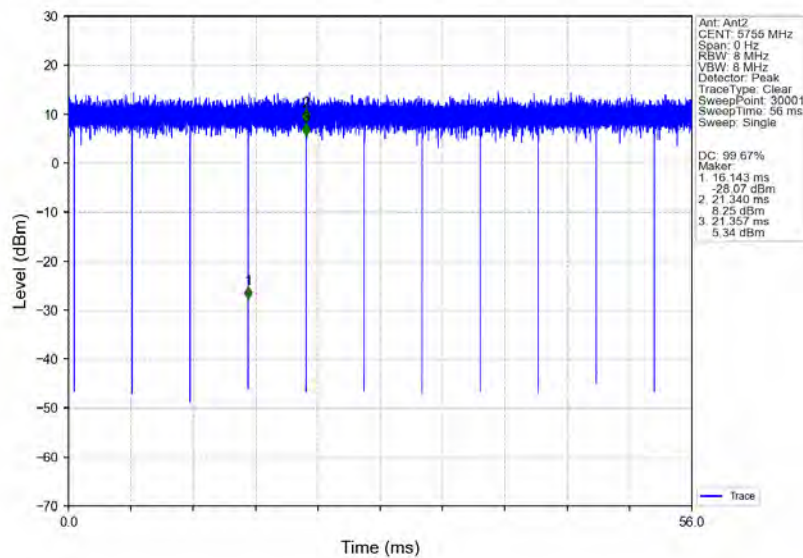
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802.11n(HT40) HCH 5670MHz Ant2 NTN



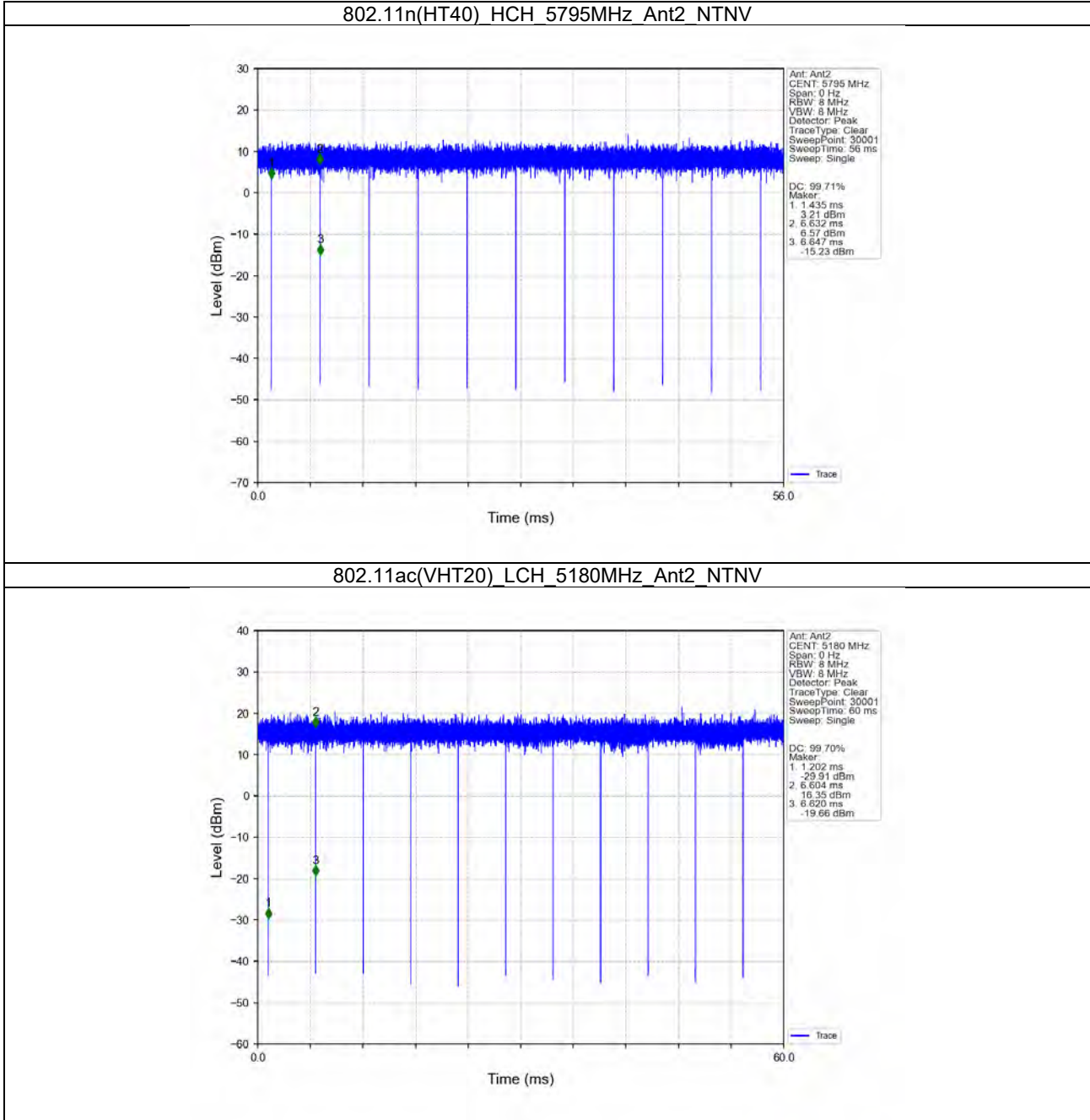
802.11n(HT40) LCH 5755MHz Ant2 NTN



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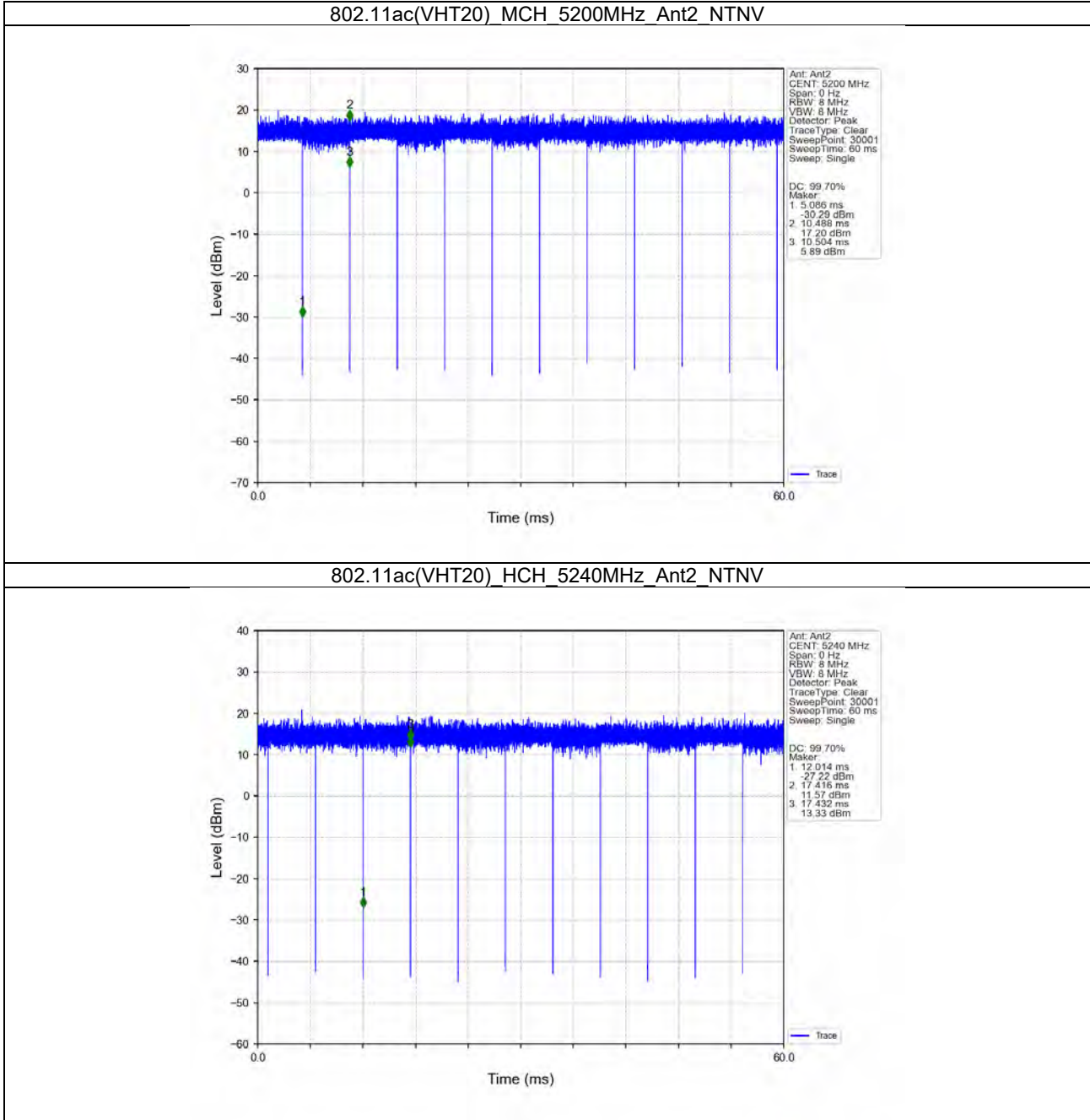
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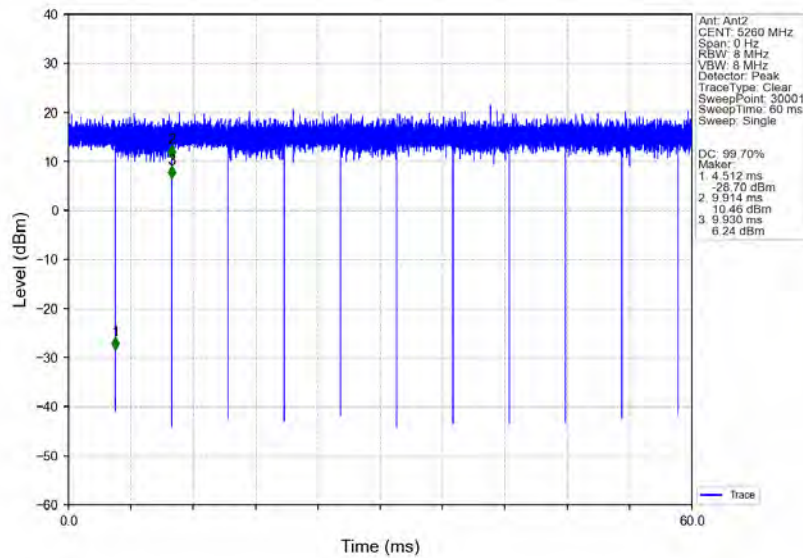


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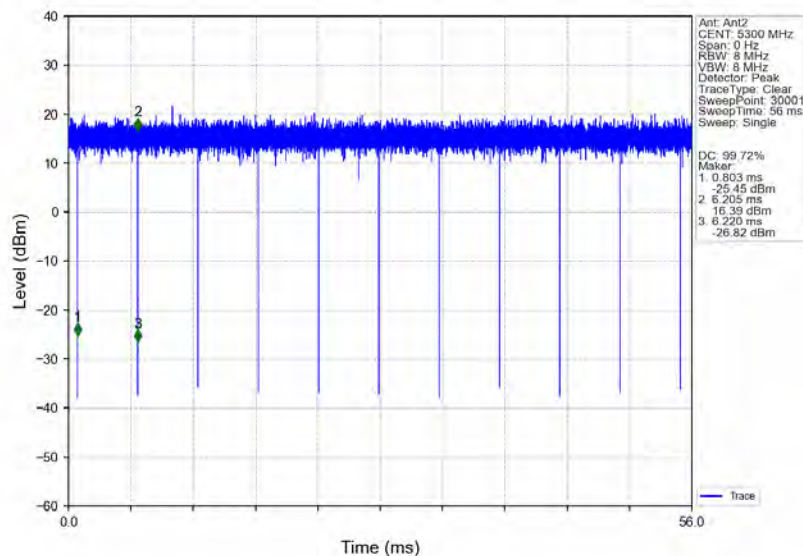
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802.11ac(VHT20) LCH 5260MHz Ant2 NTN



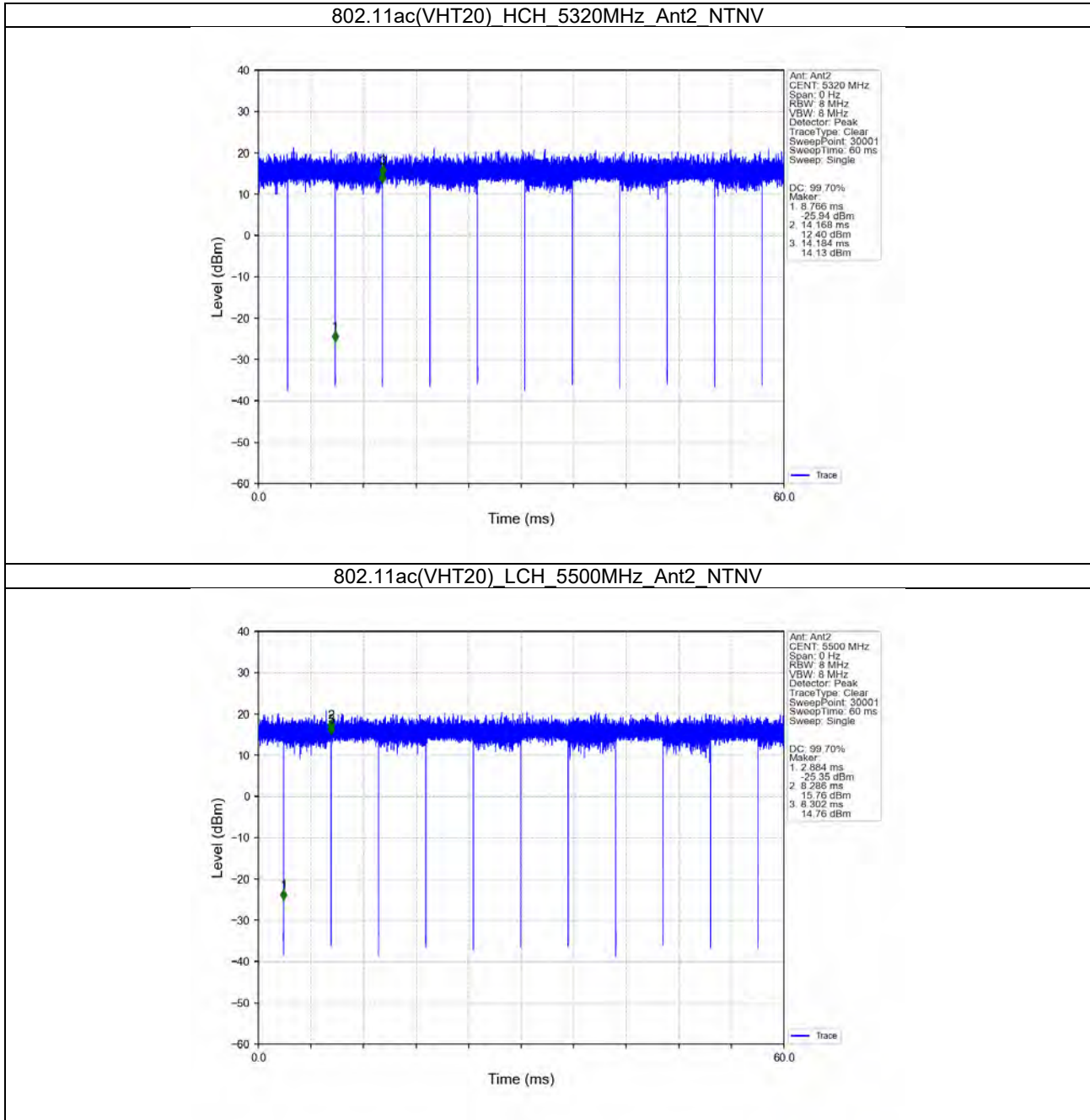
802.11ac(VHT20) MCH 5300MHz Ant2 NTN



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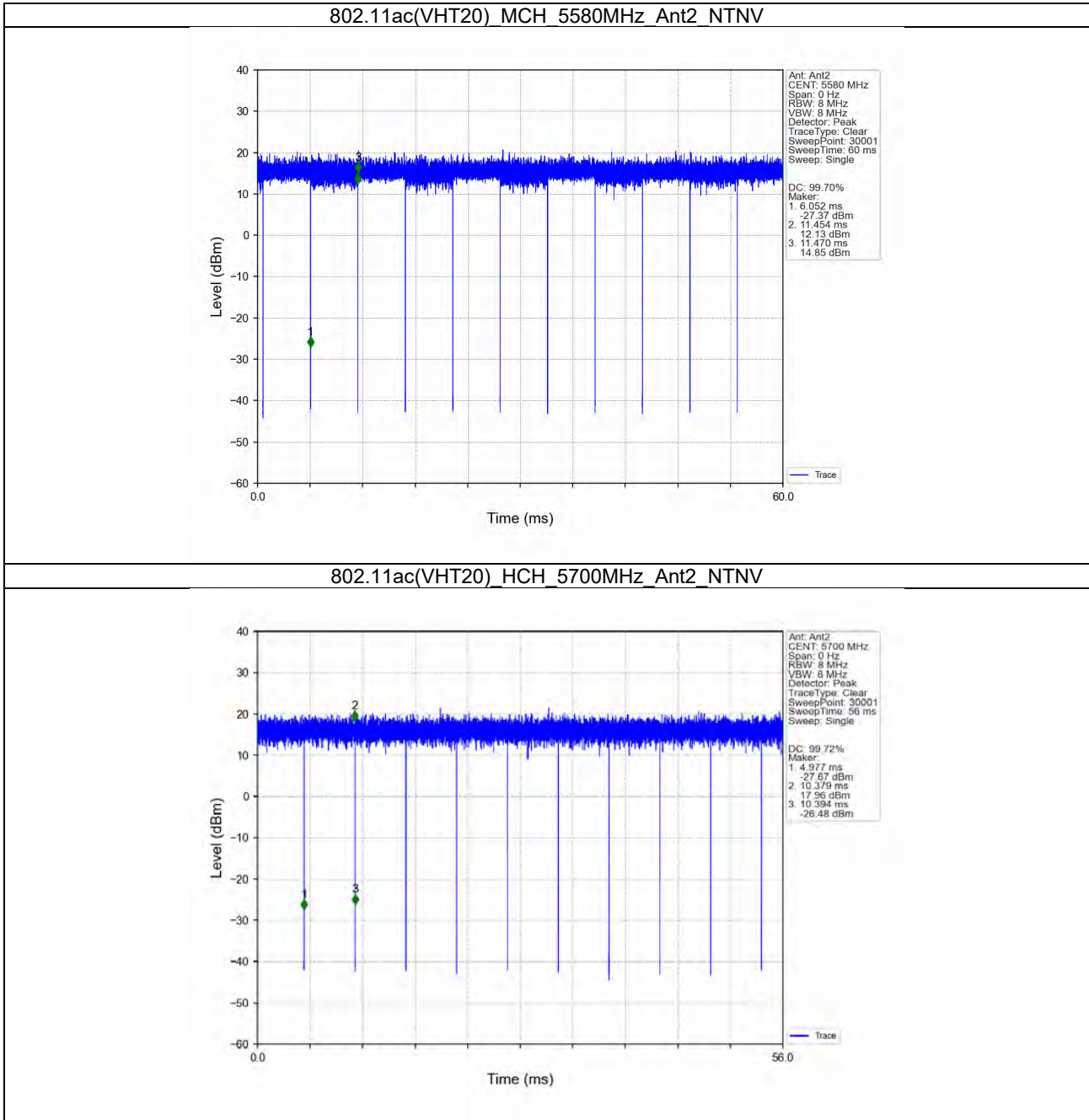
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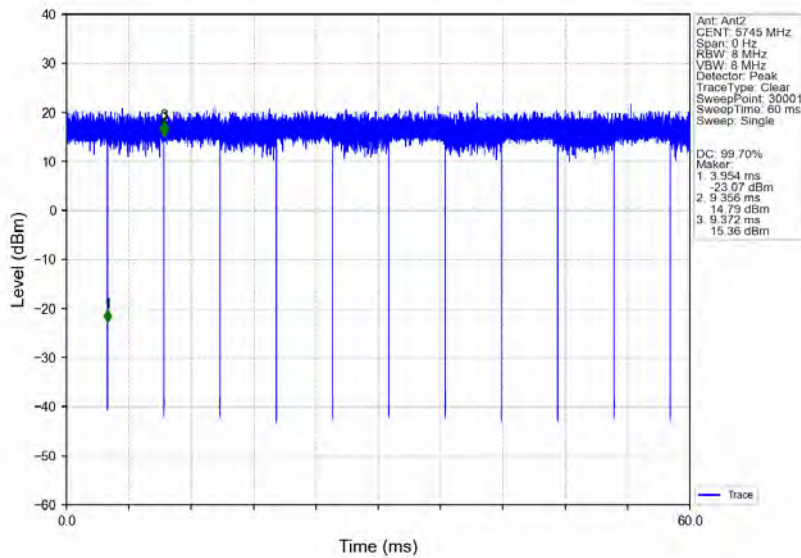


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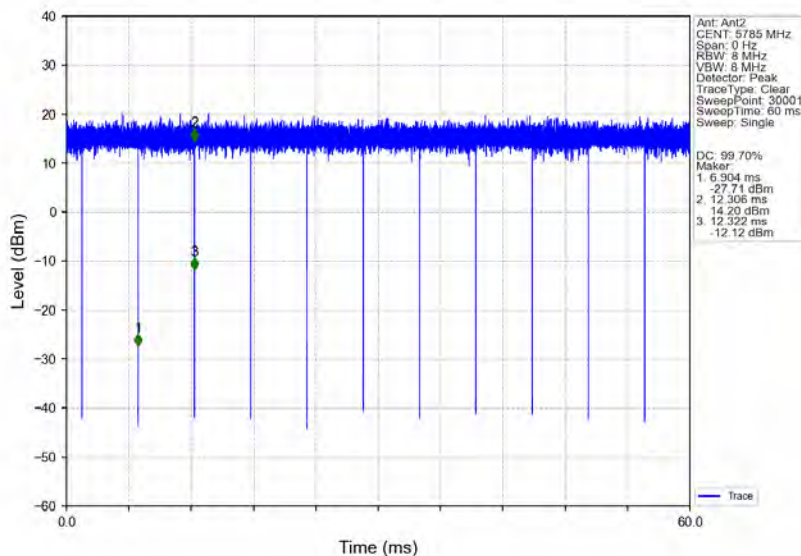
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802.11ac(VHT20) LCH 5745MHz Ant2 NTN



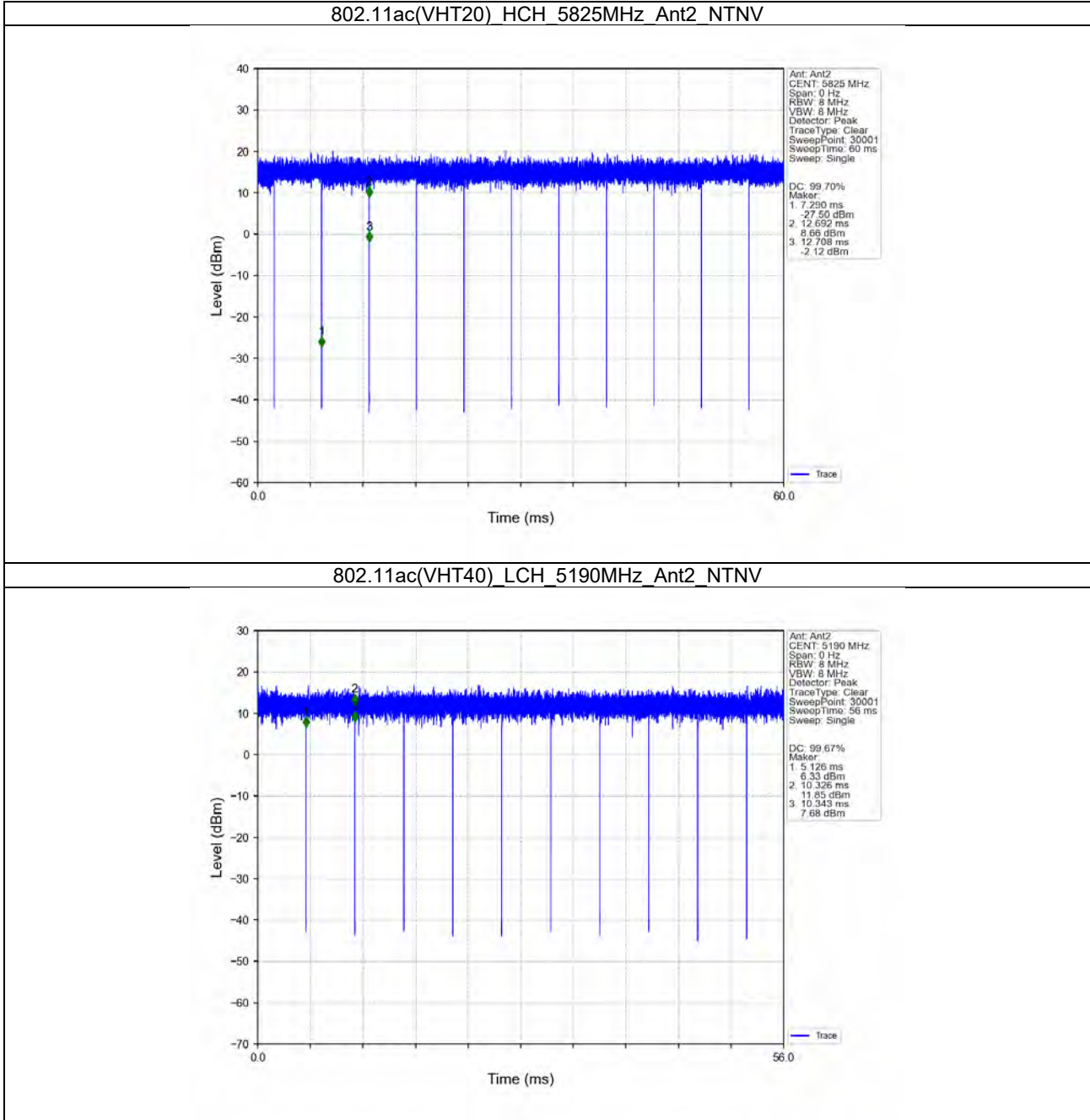
802.11ac(VHT20) MCH 5785MHz Ant2 NTN



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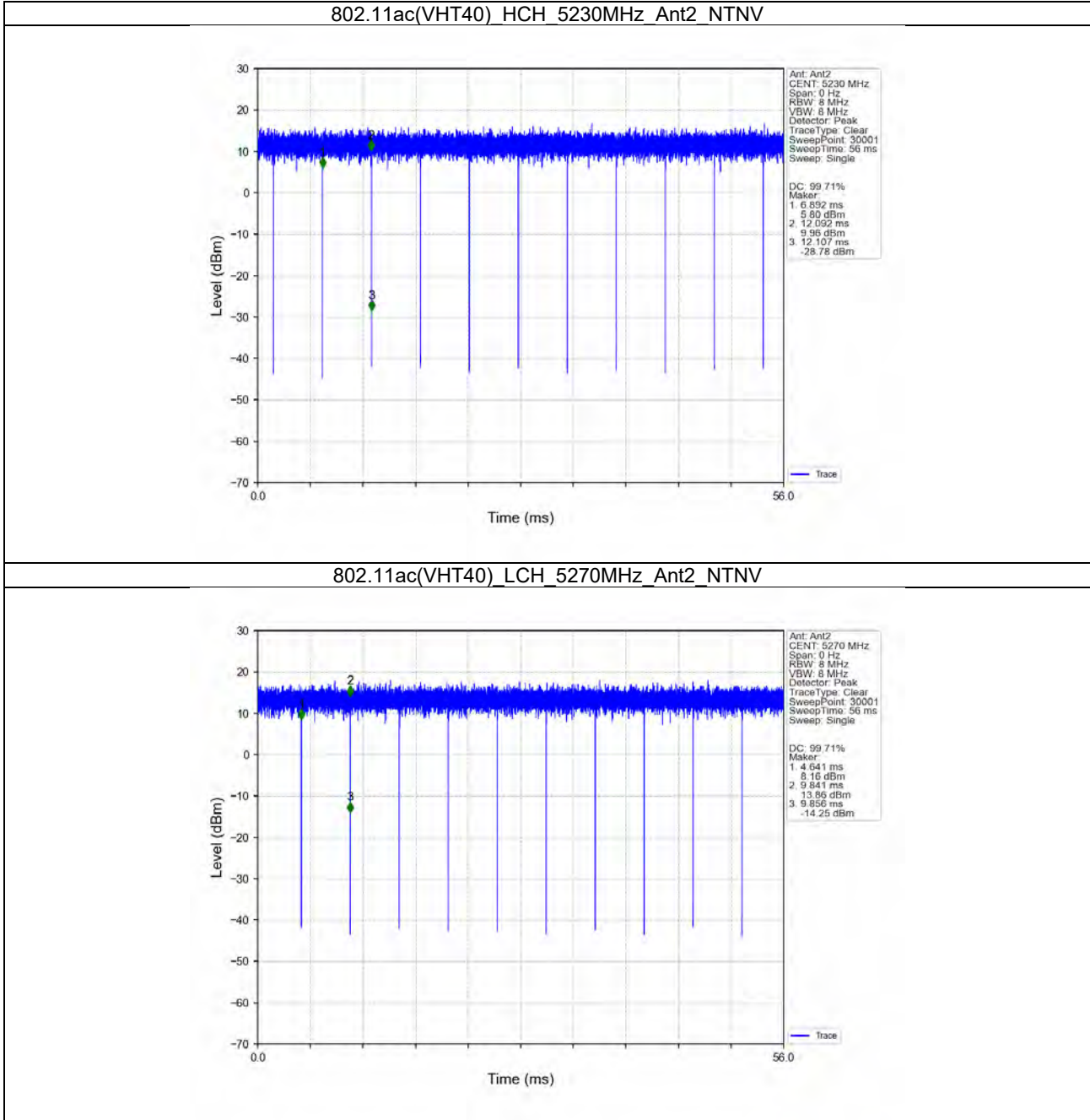
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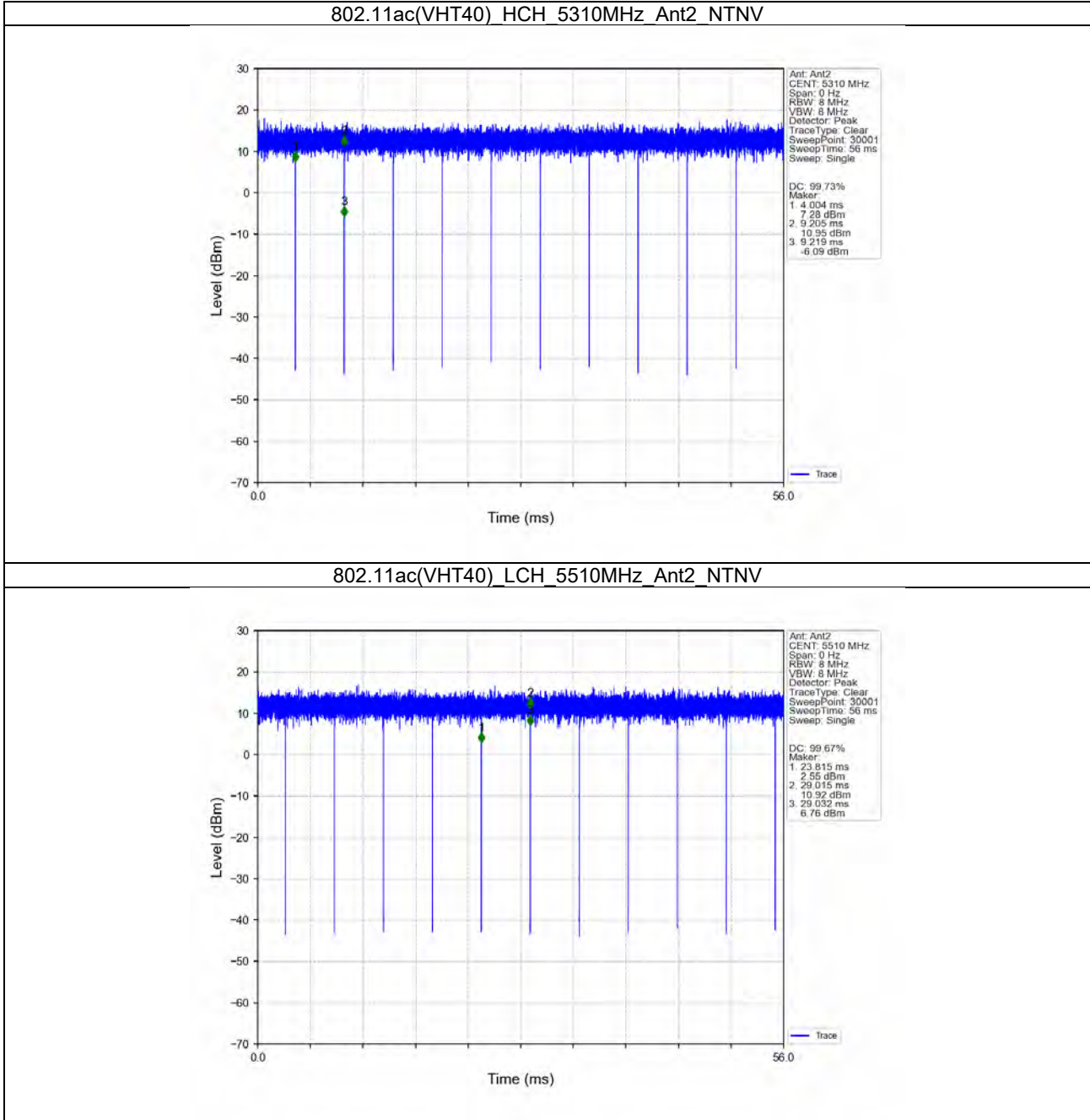
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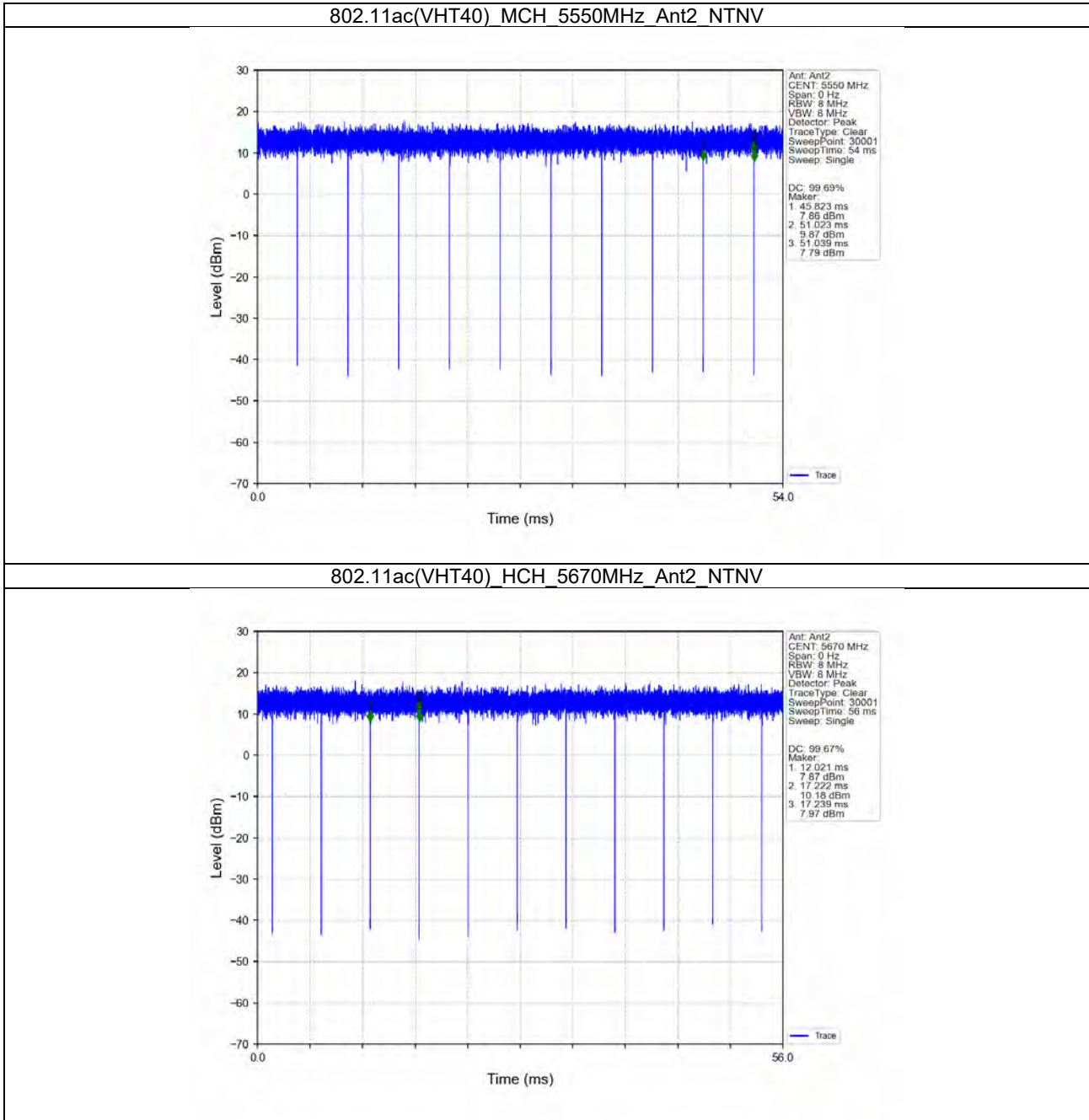
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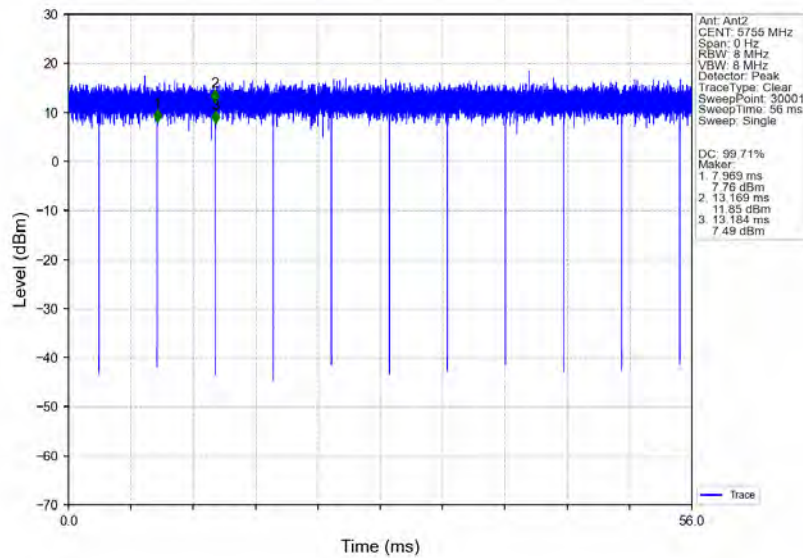


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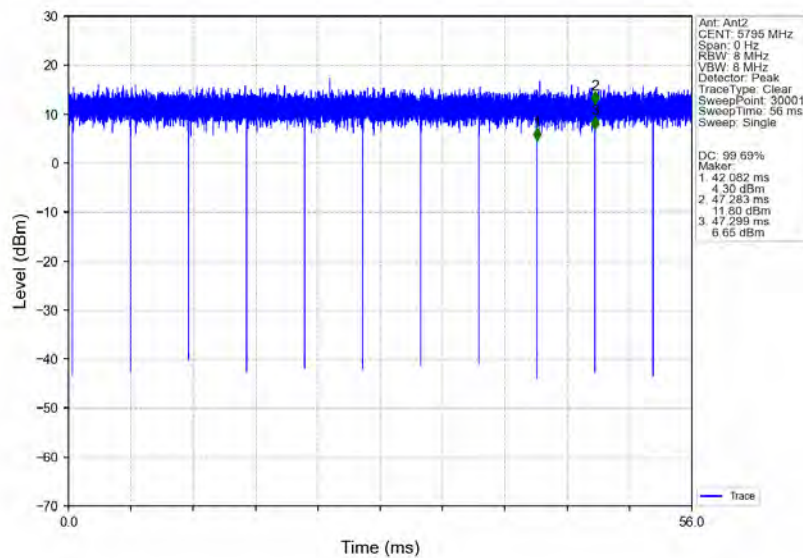
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802.11ac(VHT40) LCH 5755MHz Ant2 NTN



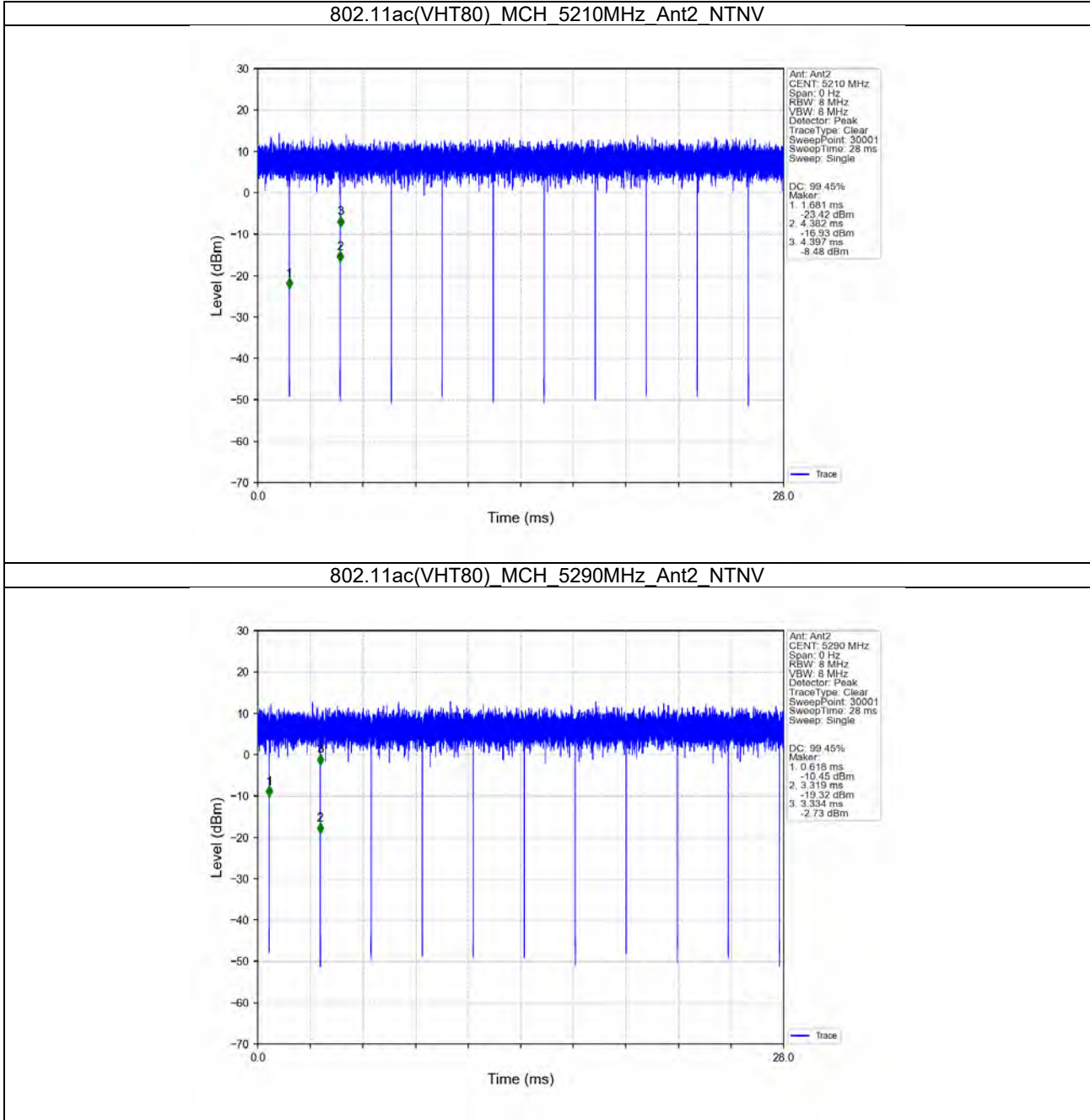
802.11ac(VHT40) HCH 5795MHz Ant2 NTN



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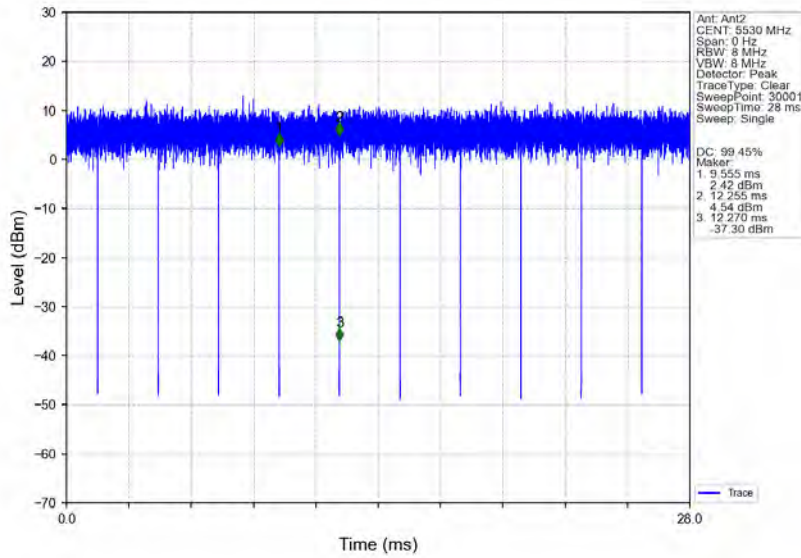


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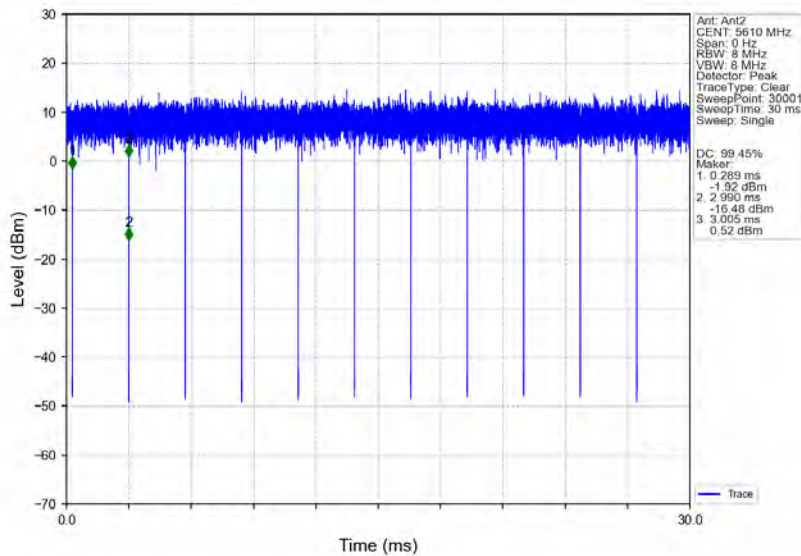
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802.11ac(VHT80) LCH 5530MHz Ant2 NTN



802.11ac(VHT80) HCH 5610MHz Ant2 NTN



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