

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



FCC Applicant: HP Inc.
1501 Page Mill Road, Palo Alto, CA 94304, USA
Product Name: Notebook Computer
Brand Name: HP
Model No.: HSN-I54C
Model Difference: N/A
Report Number: E2/2021/C0072
FCC ID: B94QCNFA765L43
Issue Date: January 24, 2022
Date of Test: December 27, 2021~January 19, 2022
Date of EUT Received: December 13, 2021

Arno Hsieh

Approved By

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E2/2021/C0072	00	Original.	January 24, 2022	Karen Huang	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	HSN-I54C
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	0001760TS8
Power Supply:	11.4Vdc

1.2 Modulation & Data Rate

Modulation type:	1024QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps
	802.11 ax_160MHz: 72.1 - 2402 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	NB / TB Mode	TX1 / TX2	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	WNC	NB	TX2	6036B0319901 (81EABL15.G65)	5925~6425	0.08
					6425~6525	0.08
					6525~6875	0.35
					6875~7125	0.35
			TX1	6036B0319801 (81EABL15.G64)	5925~6425	-0.80
					6425~6525	-1.18
					6525~6875	0.18
					6875~7125	0.18
PIFA	WNC	TB	TX2	6036B0319901 (81EABL15.G65)	5925~6425	0.94
					6425~6525	1.12
					6525~6875	1.12
					6875~7125	0.83
			TX1	6036B0319801 (81EABL15.G64)	5925~6425	-0.83
					6425~6525	-1.13
					6525~6875	0.37
					6875~7125	0.37
PIFA	HONG-BO	NB	TX2	6036B0319701 (00-2602752250)	5925~6425	2.38
					6425~6525	-0.07
					6525~6875	-0.44
					6875~7125	0.69
			TX1	6036B0319601 (00-2602752150)	5925~6425	2.66
					6425~6525	1.36
					6525~6875	1.01
					6875~7125	0.70
PIFA	HONG-BO	TB	TX2	6036B0319701 (00-2602752250)	5925~6425	1.97
					6425~6525	1.70
					6525~6875	0.99
					6875~7125	0.99
			TX1	6036B0319601 (00-2602752150)	5925~6425	2.49
					6425~6525	1.99
					6525~6875	1.99
					6875~7125	0.36

Note:

- Measurements were demonstrated by using the antenna with the lowest gain as the worst case scenarios.
- Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Exercise

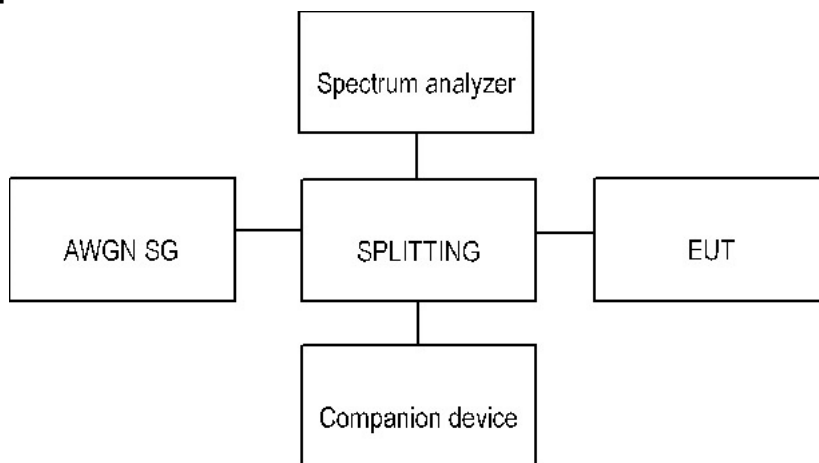
Normal test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.2 Test Procedure

2.2.1 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test accordance with the test procedure in section 7.3

2.3 CBP Setup



Conducted Emission Test Site: B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T14	P0003332	N/A	N/A
AP	ASUS	GT-AXE11000	M3IAJF201730 FCC ID : MSQ-RTAXJF00	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(d)(6)	contention-based protocol	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz										UNII-6 6425~6525 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025	97	6435	99	6445	103	6465	111	6505		
5	5975	53	6215	11	6005	23	6065	47	6185	101	6455	107	6485						
9	5995	57	6235	19	6045	39	6145	79	6345	105	6475	115	6525						
13	6015	61	6255	27	6085	55	6225			109	6495								
17	6035	65	6275	35	6125	71	6305			113	6515								
21	6055	69	6295	43	6165	87	6385												
25	6075	73	6315	51	6205														
29	6095	77	6335	59	6245														
33	6115	81	6355	67	6285														
37	6135	85	6375	75	6325														
41	6155	89	6395	83	6365														
45	6175	93	6415	91	6405														

UNII-7 6525~6875 MHz										UNII-8 6875~7125 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665	189	6895	187	6885	199	6945	207	6985		
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	215	7025				
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965						
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005						
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045						
137	6635	173	6815	163	6765					209	6995	227	7085						
141	6655	177	6835	171	6805					213	7015								
145	6675	181	6855	179	6845					217	7035								
149	6695	185	6875							221	7055								
										225	7075								
										229	7095								
										233	7115								

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
☐ 802.11 a	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ 1TX	☐ 2TX
☐ 802.11 n	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☐ MIMO
☐ 802.11 ac	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☐ MIMO
☒ 802.11 ax	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Generated signal levels, conducted	+/- 1.12 dB
Generated signal levels, radiated	+/- 2.98 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Contention based protocol measurement

Conducted Emission Test Site: B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Signal Generator	KEYSIGHT	N5182B	MY59100873	06/22/2021	06/21/2022
Frequency Extender	Keysight	N5182BX07	MY59360223	03/04/2021	03/03/2022
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/31/2021	01/30/2022
Splitter	RF-Lambda	RFLT4W1G1 8G	18090300130	04/28/2021	04/27/2022
Splitter	RF-Lambda	RFLT2W1G1 8G	18112200217	04/28/2021	04/27/2022

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7 CONTENTION BASED PROTOCOL

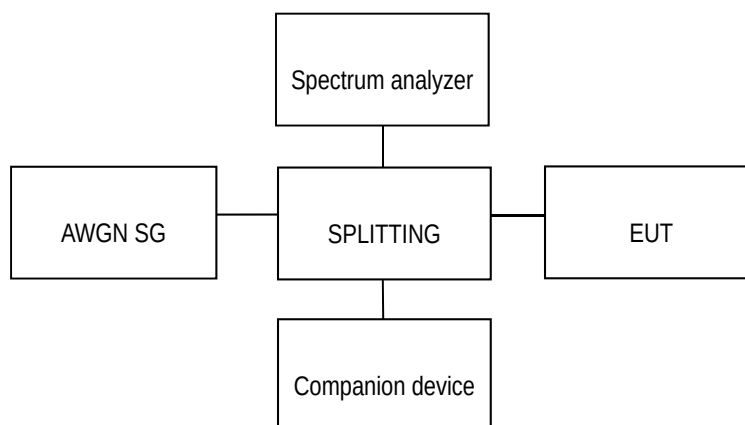
7.1 Standard Applicable

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

7.2 Test Setup



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7.3 Measurement Procedure

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency.
The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer, Ensure that the attenuator provides enough attenuation to not overload the signal analyzer receiver.
4. Using an AWGN signal source a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
5. Set the AWGN signal power to an extremely low level (more than 20 dB below -62 dBm threshold). Connect the AWGN signal source, via splitter, to the signal analyzer and the EUT
6. Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting
7. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
8. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 4, choose a different center frequency for the AWGN signal and repeat the process(as figure1)

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Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

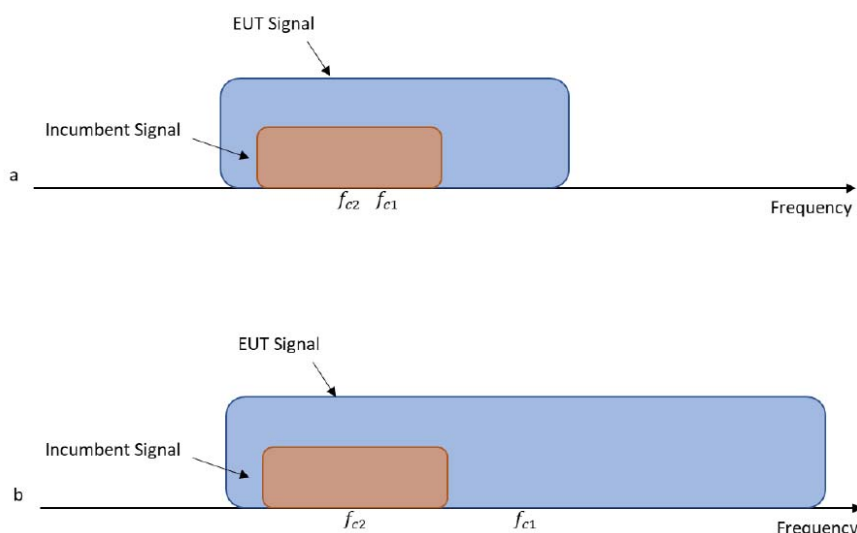


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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7.4 Measurement Result

7.4.1 CBP Detection

Contention Based Protocol									
Band	Bandwidth (MHz)	Channel	Frequency (MHz)	Interference Freq (MHz)	Detection Level of AWGN Interference (dBm)	Detection Trials	AWGN Detection Probability (%)	Limit Probability (%)	Result
U-NII-5	20	37	6135	6135	-62.83	9	90	90	PASS
	160	47	6185	6110	-62.83	10	100	90	PASS
				6185	-62.83	10	100	90	PASS
				6260	-62.83	10	100	90	PASS
U-NII-6	20	101	6455	6455	-63.18	10	100	90	PASS
	160	111	6505	6430	-63.18	10	100	90	PASS
				6505	-63.18	10	100	90	PASS
				6580	-63.18	10	100	90	PASS
U-NII-7	20	149	6695	6175	-62.44	10	100	90	PASS
	160	143	6665	6590	-62.44	10	100	90	PASS
				6665	-62.44	9	90	90	PASS
				6740	-62.44	10	100	90	PASS
U-NII-8	20	209	7015	7015	-61.82	9	90	90	PASS
	160	207	6985	6910	-61.82	10	100	90	PASS
				6985	-61.82	9	90	90	PASS
				7060	-61.82	10	100	90	PASS

Note : Detection Level of AWGN Interference : -62+min Gain

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7.4.2 CBP_Threshold_Level

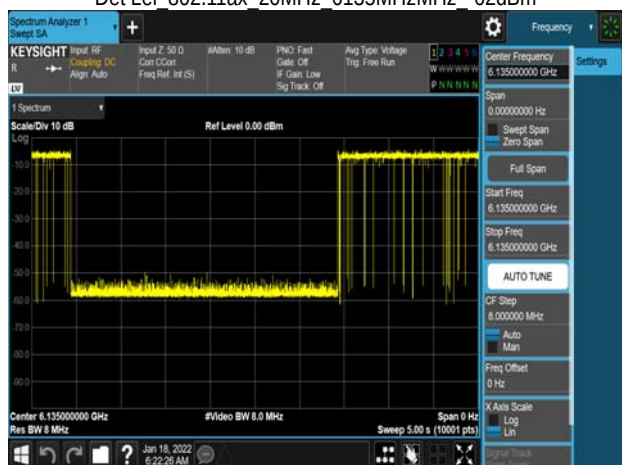
Contention Based Protocol Threshold Level Verify						
Band	Bandwidth (MHz)	Channel	Frequency (MHz)	Interference Freq (MHz)	Detection Power Level (dBm)	Situation of EUT
U-NII-5	20	37	6135	6135	-66.00	Start transmission
	160	47	6185	6110	-67.00	Start transmission
				6185	-68.00	Start transmission
				6260	-69.00	Start transmission
U-NII-6	20	101	6455	6455	-65.00	Start transmission
	160	111	6505	6430	-65.00	Start transmission
				6505	-68.00	Start transmission
				6580	-69.00	Start transmission
U-NII-7	20	149	6695	6695	-64.00	Start transmission
	160	143	6665	6590	-66.00	Start transmission
				6665	-68.00	Start transmission
				6740	-68.00	Start transmission
U-NII-8	20	213	7015	6455	-64.00	Start transmission
	160	207	6985	6910	-67.00	Start transmission
				6985	-66.00	Start transmission
				7060	-63.00	Start transmission

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Det LeI 802.11ax 20MHz 6135MHzMHz -62dBm



Det LeI 802.11ax 20MHz 6135MHzMHz -65dBm



Det LeI 802.11ax 20MHz 6135MHzMHz -63dBm



Det LeI 802.11ax 20MHz 6135MHzMHz -66dBm



Det LeI 802.11ax 20MHz 6135MHzMHz -64dBm



Det LeI 802.11ax 20MHz 6455MHzMHz -62dBm



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Det Le1 802.11ax 20MHz 6455MHzMHz -63dBm



Det Le1 802.11ax 20MHz 6695MHzMHz -62dBm



Det Le1 802.11ax 20MHz 6455MHzMHz -64dBm



Det Le1 802.11ax 20MHz 6695MHzMHz -63dBm



Det Le1 802.11ax 20MHz 6455MHzMHz -65dBm



Det Le1 802.11ax 20MHz 6695MHzMHz -64dBm



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Det Le1 802.11ax 20MHz 7015MHzMHz -62dBm



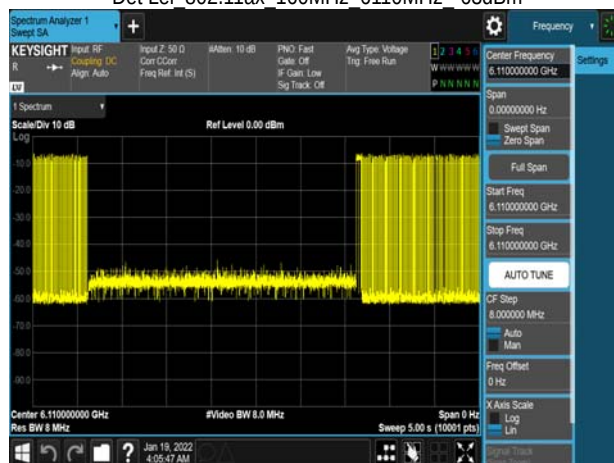
Det Le1 802.11ax 160MHz 6110MHz -62dBm



Det Le1 802.11ax 20MHz 7015MHzMHz -63dBm



Det Le1 802.11ax 160MHz 6110MHz -63dBm



Det Le1 802.11ax 20MHz 7015MHzMHz -64dBm



Det Le1 802.11ax 160MHz 6110MHz -64dBm



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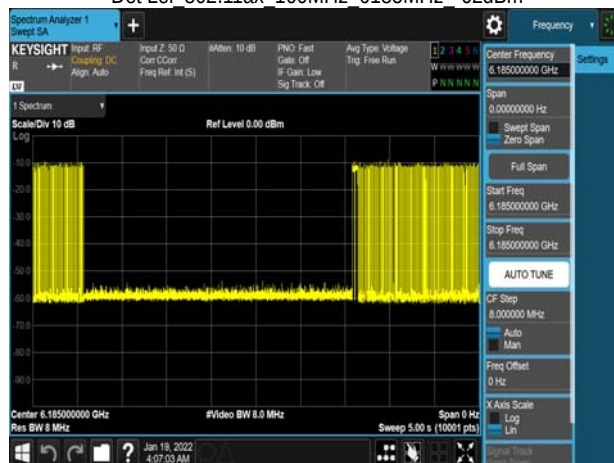
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Det LeI 802.11ax 160MHz 6110MHz -65dBm



Det LeI 802.11ax 160MHz 6185MHz -62dBm



Det LeI 802.11ax 160MHz 6110MHz -66dBm



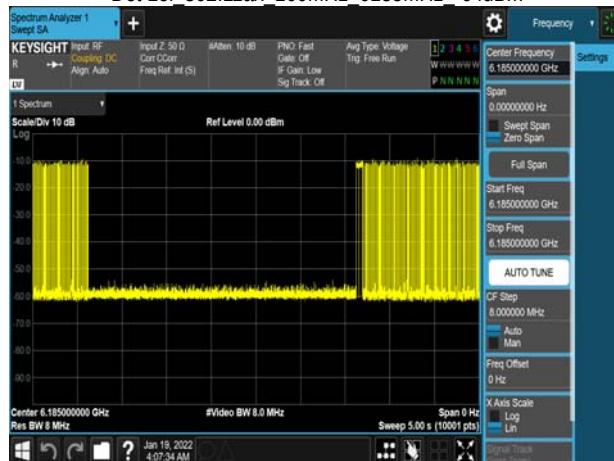
Det LeI 802.11ax 160MHz 6185MHz -63dBm



Det LeI 802.11ax 160MHz 6110MHz -67dBm



Det LeI 802.11ax 160MHz 6185MHz -64dBm



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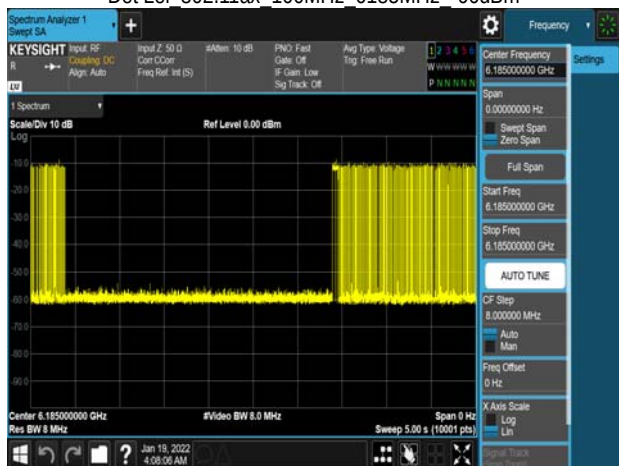
Det LeI 802.11ax 160MHz 6185MHz -65dBm



Det LeI 802.11ax 160MHz 6185MHz -68dBm



Det LeI 802.11ax 160MHz 6185MHz -66dBm



Det LeI 802.11ax 160MHz 6260MHz -62dBm



Det LeI 802.11ax 160MHz 6185MHz -67dBm



Det LeI 802.11ax 160MHz 6260MHz -63dBm



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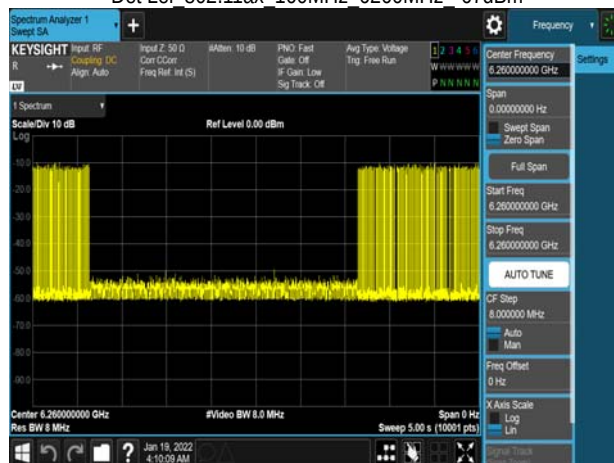
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Det LeI 802.11ax 160MHz 6260MHz -64dBm



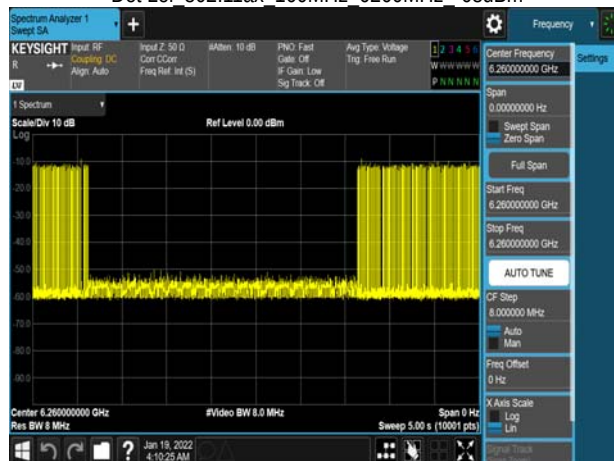
Det LeI 802.11ax 160MHz 6260MHz -67dBm



Det LeI 802.11ax 160MHz 6260MHz -65dBm



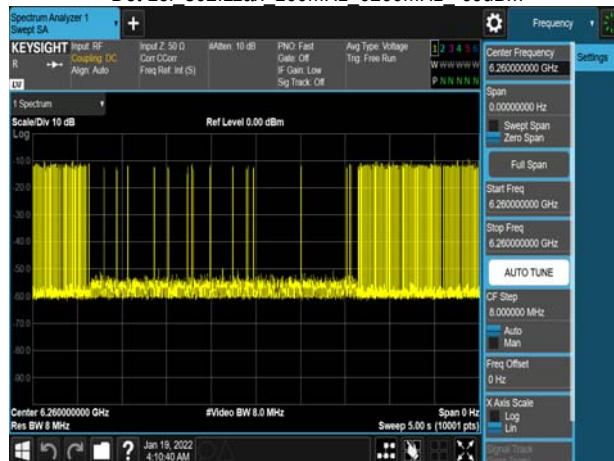
Det LeI 802.11ax 160MHz 6260MHz -68dBm



Det LeI 802.11ax 160MHz 6260MHz -66dBm



Det LeI 802.11ax 160MHz 6260MHz -69dBm



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Det LeI 802.11ax 160MHz 6430MHz -62dBm



Det LeI 802.11ax 160MHz 6430MHz -65dBm



Det LeI 802.11ax 160MHz 6430MHz -63dBm



Det LeI 802.11ax 160MHz 6505MHz -62dBm



Det LeI 802.11ax 160MHz 6430MHz -64dBm



Det LeI 802.11ax 160MHz 6505MHz -63dBm



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Det LeI 802.11ax 160MHz 6505MHz -64dBm



Det LeI 802.11ax 160MHz 6505MHz -67dBm



Det LeI 802.11ax 160MHz 6505MHz -65dBm



Det LeI 802.11ax 160MHz 6505MHz -68dBm



Det LeI 802.11ax 160MHz 6505MHz -66dBm



Det LeI 802.11ax 160MHz 6580MHz -62dBm



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Det Le1 802.11ax 160MHz 6580MHz -63dBm



Det Le1 802.11ax 160MHz 6580MHz -66dBm



Det Le1 802.11ax 160MHz 6580MHz -64dBm



Det Le1 802.11ax 160MHz 6580MHz -67dBm



Det Le1 802.11ax 160MHz 6580MHz -65dBm



Det Le1 802.11ax 160MHz 6580MHz -68dBm



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Det LeI 802.11ax 160MHz 6580MHz -69dBm



Det LeI 802.11ax 160MHz 6590MHz -64dBm



Det LeI 802.11ax 160MHz 6590MHz -62dBm



Det LeI 802.11ax 160MHz 6590MHz -65dBm



Det LeI 802.11ax 160MHz 6590MHz -63dBm



Det LeI 802.11ax 160MHz 6590MHz -66dBm



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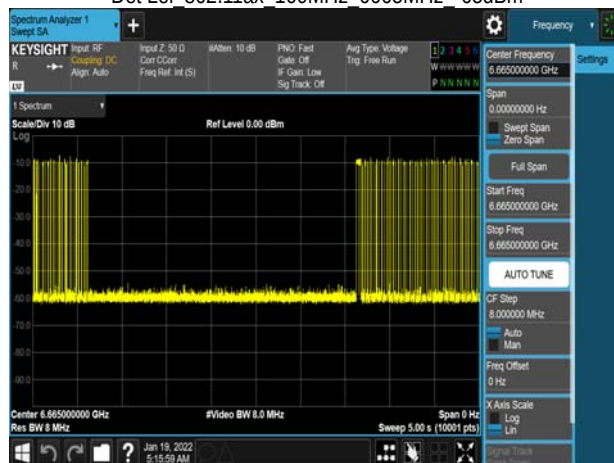
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Det LeI 802.11ax 160MHz 6665MHz -62dBm



Det LeI 802.11ax 160MHz 6665MHz -65dBm



Det LeI 802.11ax 160MHz 6665MHz -63dBm



Det LeI 802.11ax 160MHz 6665MHz -66dBm



Det LeI 802.11ax 160MHz 6665MHz -64dBm



Det LeI 802.11ax 160MHz 6665MHz -67dBm



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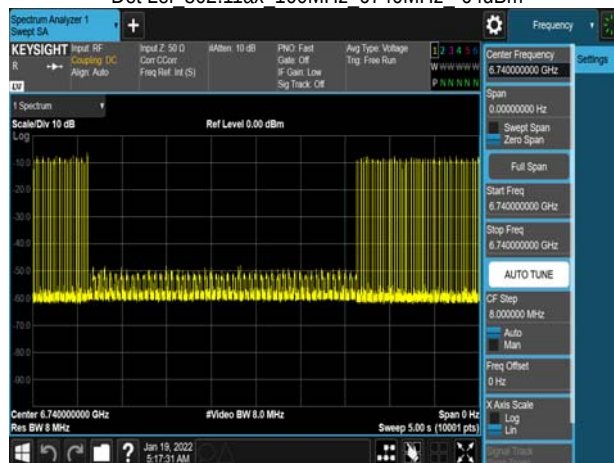
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Det LeI 802.11ax 160MHz 6665MHz -68dBm



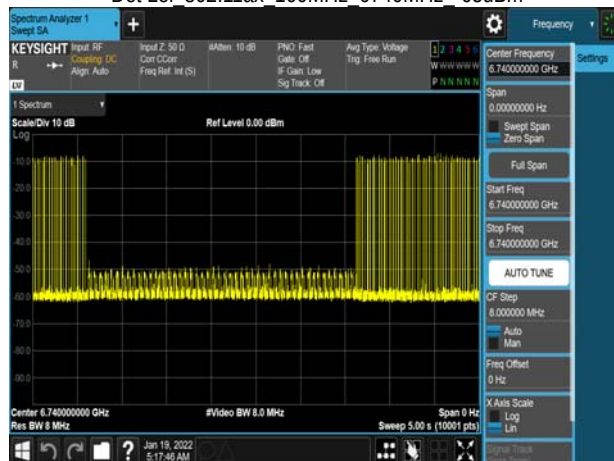
Det LeI 802.11ax 160MHz 6740MHz -64dBm



Det LeI 802.11ax 160MHz 6740MHz -62dBm



Det LeI 802.11ax 160MHz 6740MHz -65dBm



Det LeI 802.11ax 160MHz 6740MHz -63dBm



Det LeI 802.11ax 160MHz 6740MHz -66dBm



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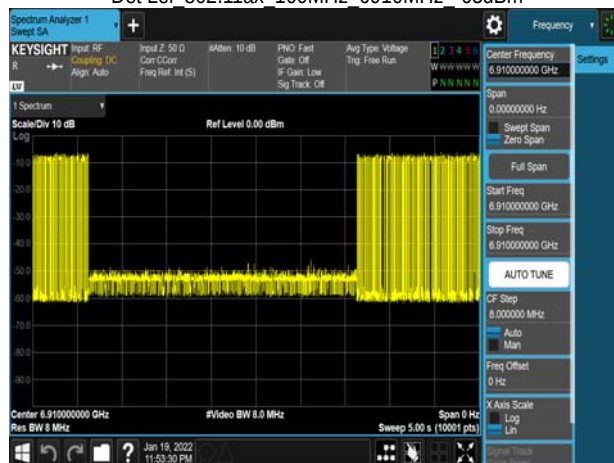
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Det LeI 802.11ax 160MHz 6740MHz -67dBm



Det LeI 802.11ax 160MHz 6910MHz -63dBm



Det LeI 802.11ax 160MHz 6740MHz -68dBm



Det LeI 802.11ax 160MHz 6910MHz -64dBm



Det LeI 802.11ax 160MHz 6910MHz -62dBm



Det LeI 802.11ax 160MHz 6910MHz -65dBm



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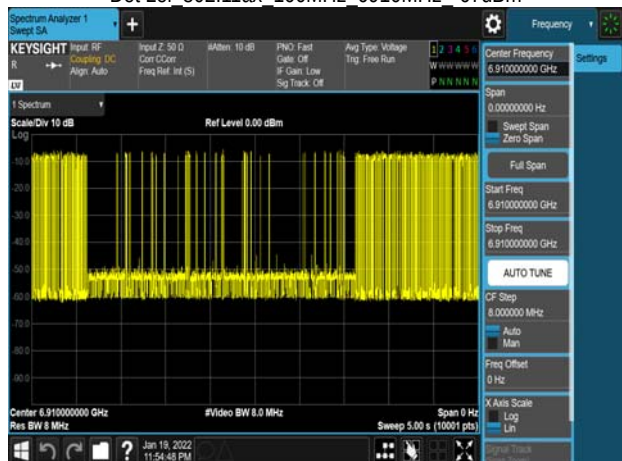
Det LeI 802.11ax 160MHz 6910MHz -66dBm



Det LeI 802.11ax 160MHz 6985MHz -63dBm



Det LeI 802.11ax 160MHz 6910MHz -67dBm



Det LeI 802.11ax 160MHz 6985MHz -64dBm



Det LeI 802.11ax 160MHz 6985MHz -62dBm



Det LeI 802.11ax 160MHz 6985MHz -65dBm



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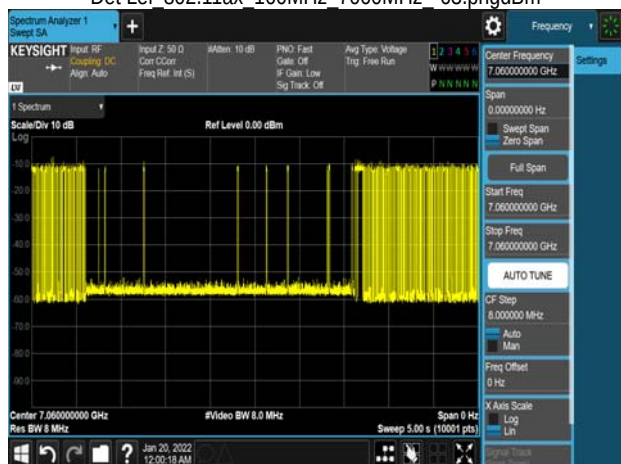
Det Le1 802.11ax 160MHz 6985MHz -66dBm



Det Le1 802.11ax 160MHz 7060MHz -62.pngdBm



Det Le1 802.11ax 160MHz 7060MHz -63.pngdBm



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7.4.3 Incumbent_signal

802.11ax 20MHz 6135MHz AWGN:6135MHz



802.11ax 20MHz 7015MHz AWGN:7015MHz



802.11ax 20MHz 6455MHz AWGN:6455MHz



802.11ax 160MHz 6185MHz AWGN:6110MHz



802.11ax 20MHz 6695MHz AWGN:6695MHz



802.11ax 160MHz 6185MHz AWGN:6185MHz



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802.11ax 160MHz 6185MHz AWGN:6260MHz



802.11ax 160MHz 6505MHz AWGN:6580MHz



802.11ax 160MHz 6505MHz AWGN:6430MHz



802.11ax 160MHz 6665MHz AWGN:6590MHz



802.11ax 160MHz 6505MHz AWGN:6505MHz



802.11ax 160MHz 6665MHz AWGN:6665MHz



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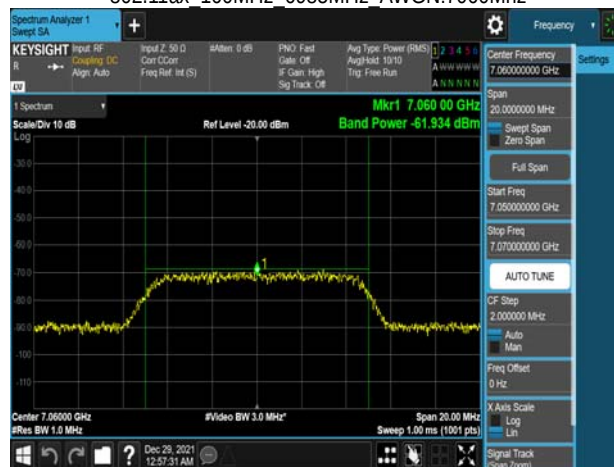
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802.11ax 160MHz 6665MHz AWGN:6740MHz



802.11ax 160MHz 6985MHz AWGN:7060MHz



802.11ax 160MHz 6985MHz AWGN:6910MHz



802.11ax 160MHz 6985MHz AWGN:6985MHz



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~ End of Report ~

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