



Prüfbericht-Nr.: <i>Test report no.:</i>	60423082 001	Auftrags-Nr.: <i>Order no.:</i>	238488715	Seite 1 von 17 Page 1 of 17
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2020-07-07	
Auftraggeber: <i>Client:</i>	Delta Electronics, Inc. No.256, Yangguang Street, Neihu District, Taipei, 11491, Taiwan			
Prüfgegenstand: <i>Test item:</i>	UNOnext Indoor Air Quality Monitor			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	UNO-C07X011			
Auftrags-Inhalt: <i>Order content:</i>	Spot Checking Emissions (FCC + ISSED)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247 ISSED RSS-247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-07-16			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002868039-001 A002868039-019			
Prüfzeitraum: <i>Testing period:</i>	2020-10-15			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Laboratory Taipei			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>reviewed by:</i>			genehmigt von <i>authorized by:</i>	
Datum: 2020-11-13 <i>Date:</i>	David Huang		Datum: 2020-11-13 <i>Date:</i>	Brenda Chen
Stellung / Position:	Project Manager		Stellung / Position:	Senior Project Manager
Sonstiges / Other: FCC ID: H79-UNOC07X011 IC: 26414-UNOC07X011				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V05

TEST SUMMARY

Report Section	FCC Clause	ISED Clause	Test Item	Result
5.1.1	15.247(d) & 15.205 & 15.209	RSS-247 5.5 &	Radiated Spurious Emissions	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF RADIATED SPURIOUS EMISSIONS

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

Prüfbericht - Nr.: 60423082 001
*Test Report No.***Seite 4 von 17**
*Page 4 of 17***HISTORY OF THIS TEST REPORT**

Report No.	Description	Date Issued
60423082 001	Original Release	2020-11-13

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Spurious Emissions

Appendix SP - Photographs of Test Setup

Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.247
FCC CFR47 Part 2: Subpart J Section 2.1091
ISED RSS-247 Issue 2 February 2017
ISED RSS-102 Issue 5 March 2015
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 996369 D04 Module Integration Guide v01

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a UNOnext Indoor Air Quality Monitor. It contains a Bluetooth/WLAN compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	UNOnext Indoor Air Quality Monitor
Type Identification	UNO-C07X011
FCC ID	H79-UNOC07X011
IC	26414- UNOC07X011
HVIN	UNOC07X011

Technical Specification of EUT

Item	EUT information
Operating Frequency	BLE: 2402 ~ 2480 MHz WLAN 2.4GHz: 2412 ~ 2462 MHz
Operation Voltage	12Vdc
Modulation	BLE: GFSK WLAN: DSSS, OFDM
Accessory Device	Refer to 4.3

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

4.2 Test Operation and Test Software

Setup for testing: The test sample itself is equipped with a touch screen. It was used to enable the operation modes listed as below.

The samples were used as follows:

A002868039-001 for BLE

A002868039-019 for WiFi

Full test was applied on all test modes, but only worst case was shown.

The WIFI and BT cannot transmit at the same time.

EUT Configure Mode	Applicable To	Description
	Radiated Spurious Emissions	
-	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on Y-plane.
2. "-" means no effect.

Radiated Spurious Emissions

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode
802.11b_2462 MHz+BLE_1M_2440 MHz

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Radiated Spurious Emissions	24.3 °C	58 %	Eagle Tsai

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

No.	Product	Brand	Model	Description	Remark
1	Switching Adapter	Dee Van Enterprise Co., Ltd.	DSA-12PFT-12 FUS	I/P: 100-240 Vac, 500 mA O/P: 12 Vdc, 1000 mA Direct Plug in with DC output cable 1.5 meter	Radiated Test

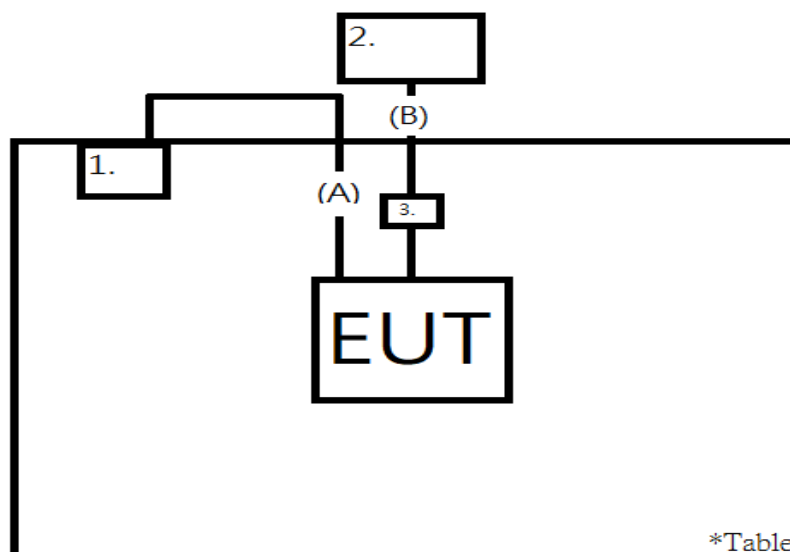
Support Unit

Support Unit					
No.	Description	Brand	Model	S/N	Remark
2	NB	HP	15-da1046TX	CND9111MY2	Radiated Test
3	Uart	N/A	N/A	N/A	

Interface Cable					
No.	Description	Shielded	Ferrite Core (Qty)	Length(cm)	Remark
A	Power Cable	NO	0	120	Radiated Test
B	Signal Cable	YES	0	150	

4.4 Test Setup Diagram

<Radiated Spurious Emissions Tx mode >



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Radiated Spurious Emissions

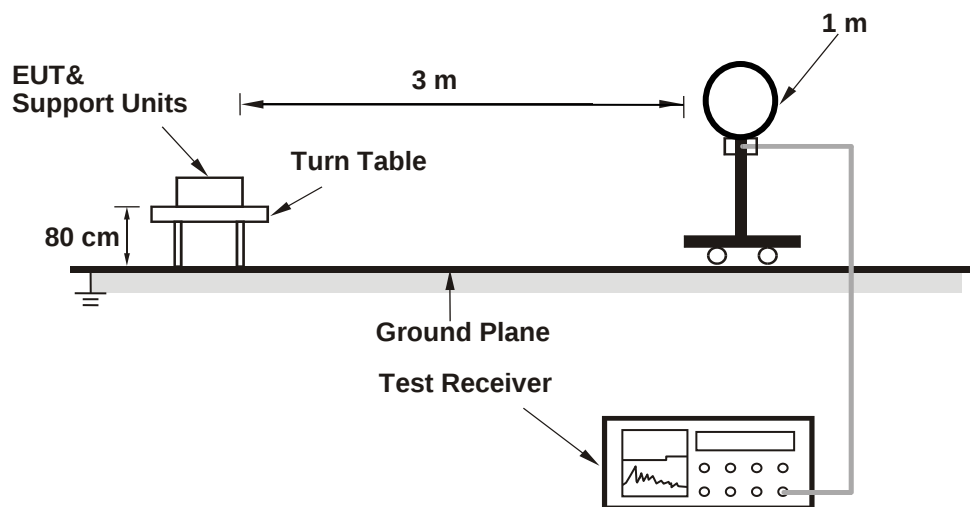
Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

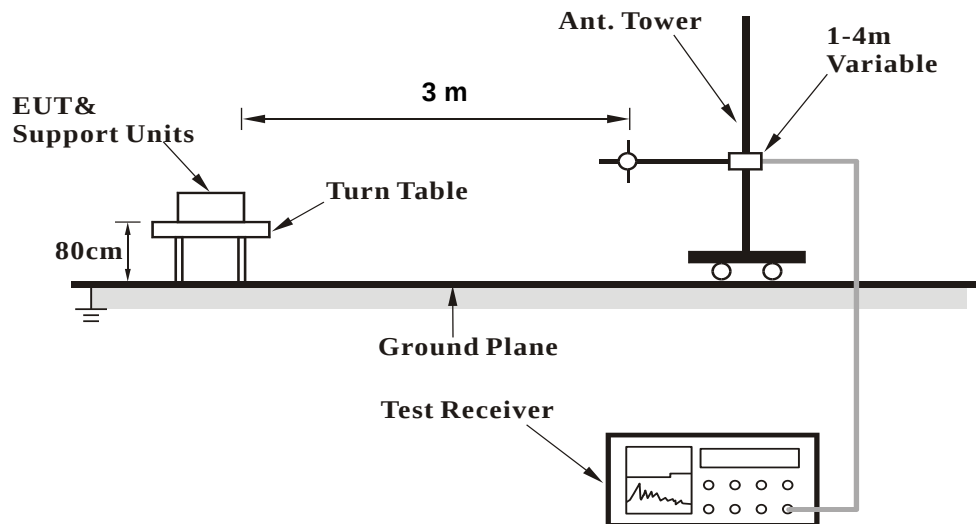
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

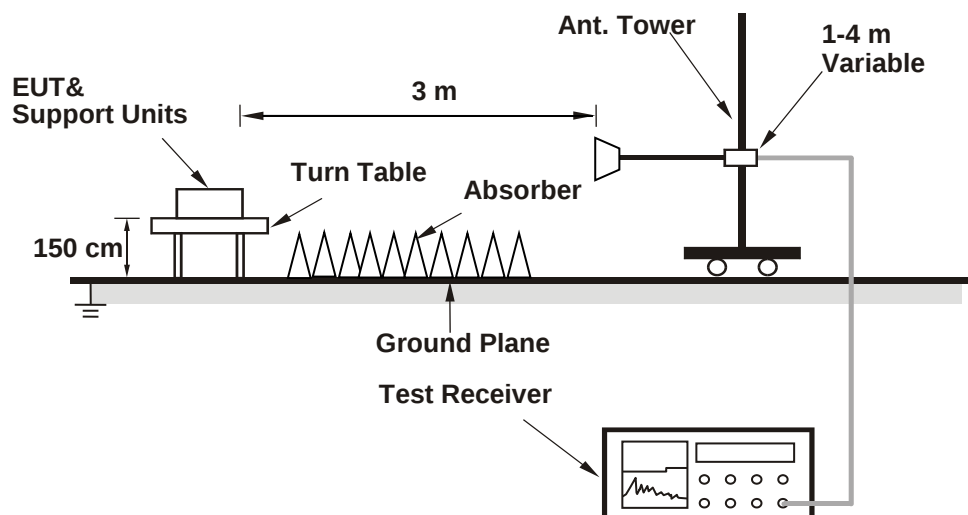
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101509	2020/5/5	2021/5/4
Receiver	R&S	ESR7	102109	2020/3/30	2021/3/29
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2020/1/20	2021/1/18
Horn Antenna	ETS-Lindgren	3117	00218929	2019/11/27	2020/11/25
LF-AMP	Agilent	8447D	2727A05146	2020/2/17	2021/2/15
HF-AMP + AC source	EMCI	EMC051845SE	980635	2020/2/11	2021/2/9
HF-AMP + AC source	EMCI	EMC184045SE	980656	2020/2/11	2021/2/9
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2020/4/13	2021/4/12
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800057/4EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800897/2EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800902/2EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2020/3/25	2021/3/24
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/7

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

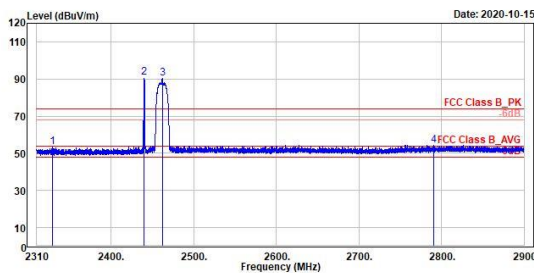
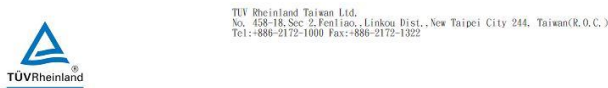
Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions

Band Edges, 2.31GHz ~ 2.9GHz

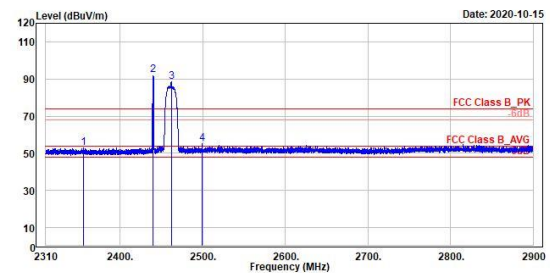
802.11b 2462 MHz+ BLE 1M 2440MHz

(Horizontal) Peak



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2328.64	53.16	16.01	37.15	74.00	-20.84	100	125	Peak	horizontal	
2 *	2440.00	90.00	53.45	37.35	74.00	16.00	300	202	Peak	horizontal	
3 *	2462.00	90.21	52.75	37.46	74.00	16.21	100	125	Peak	horizontal	
4	2790.38	54.37	16.26	38.11	74.00	-19.63	100	125	Peak	horizontal	

(Vertical) Peak



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2355.90	52.99	15.02	37.17	74.00	-21.01	219	0	Peak	vertical	
2 *	2440.00	92.15	54.00	37.35	74.00	18.15	300	133	Peak	vertical	
3 *	2462.00	88.53	51.07	37.46	74.00	14.53	219	0	Peak	vertical	
4	2499.27	55.42	17.76	37.66	74.00	-18.58	219	0	Peak	vertical	

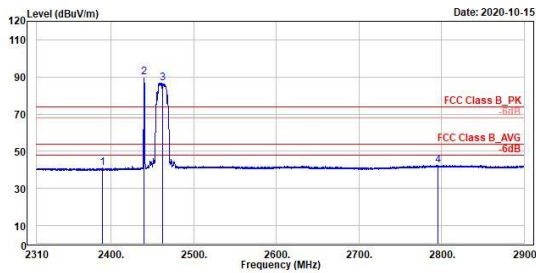
802.11b 2462 MHz+ BLE 1M 2440MHz

(Horizontal) Average

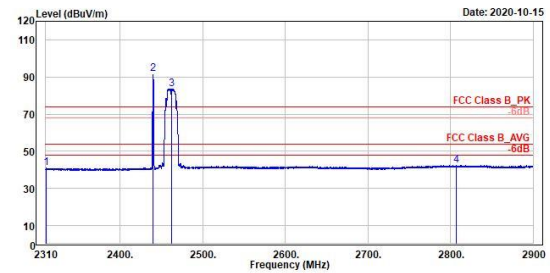
(Vertical) Average



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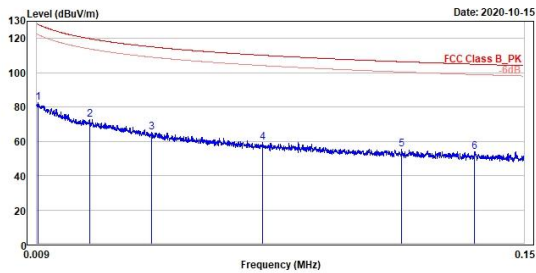
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

802.11b 2462 MHz+ BLE 1M 2440MHz

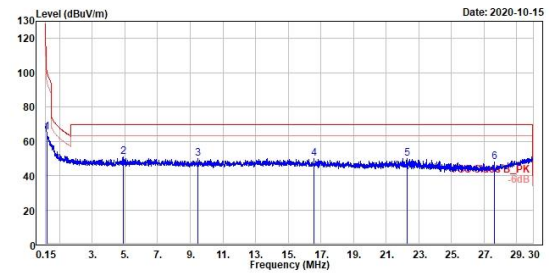
(Open) 9kHz~150kHz



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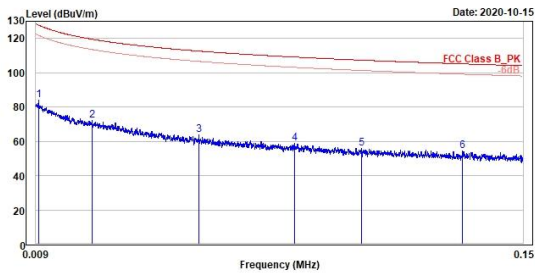


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802.11b 2462 MHz+ BLE 1M 2440MHz
(Close) 9kHz~150kHz
(Close) 150kHz~30MHz

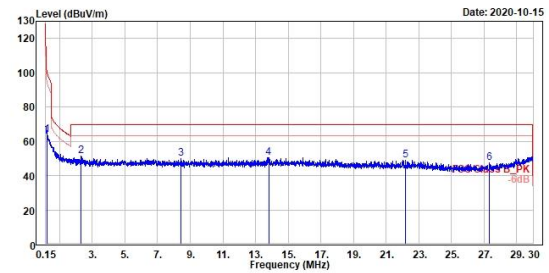

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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.01	83.91	4.90	79.01	127.72	-43.81	100	170 QP	Close	
2	0.03	72.13	0.55	71.58	119.52	-47.39	100	246 QP	Close	
3	0.06	63.62	-0.56	64.18	112.60	-48.98	100	312 QP	Close	
4	0.08	58.76	-2.17	60.93	109.11	-50.35	100	57 QP	Close	
5	0.10	55.77	-3.29	59.06	107.32	-51.55	100	348 QP	Close	
6	0.13	54.20	-3.16	57.36	105.15	-50.95	100	225 QP	Close	



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	0.24	63.86	11.60	52.26	100.01	-36.15	100	329 QP	Close	
2	2.33	51.25	12.71	38.54	69.50	-18.25	100	111 QP	Close	
3	8.42	49.74	11.79	37.95	69.50	-19.76	100	166 QP	Close	
4	13.80	50.64	13.06	37.58	69.50	-18.86	100	92 QP	Close	
5	22.17	49.09	13.27	35.82	69.50	-20.41	100	136 QP	Close	
6	27.32	47.53	12.96	34.57	69.50	-21.97	100	54 QP	Close	

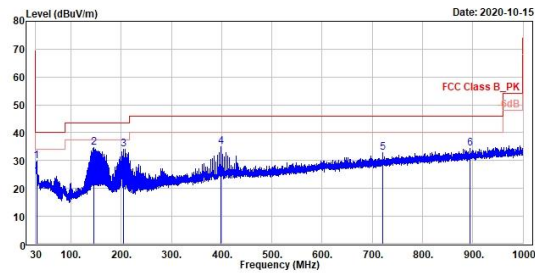
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

802.11b 2462 MHz+ BLE 1M 2440MHz

Middle Channel (Horizontal)



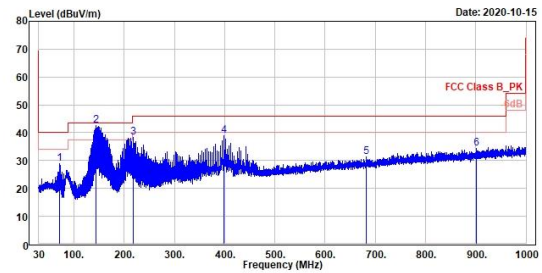
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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	31.75	29.75	37.51	-7.76	40.00	-10.25	100	232	QP	horizontal	
2	145.24	34.61	40.95	-6.34	43.50	-8.89	300	250	QP	horizontal	
3	205.28	34.00	42.33	-8.33	43.50	-9.50	100	86	QP	horizontal	
4	398.89	34.97	38.16	-3.19	46.00	-11.03	100	236	QP	horizontal	
5	721.22	32.80	31.16	1.64	46.00	-13.20	100	360	QP	horizontal	
6	895.14	34.40	36.42	3.98	46.00	-11.60	100	238	QP	horizontal	



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	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	71.03	28.96	37.66	-8.70	40.00	-11.04	400	300	QP	vertical	
2	143.78	42.51	48.90	-6.39	43.50	-0.99	200	176	QP	vertical	
3	217.99	38.46	46.84	-8.38	46.00	-7.54	100	280	QP	vertical	
4	398.31	39.02	42.22	-3.20	46.00	-6.98	100	308	QP	vertical	
5	682.81	31.40	30.22	1.18	46.00	-14.60	300	286	QP	vertical	
6	901.74	34.27	30.16	4.11	46.00	-11.73	100	157	QP	vertical	

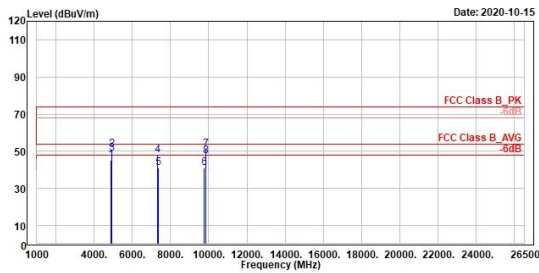
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

802.11b 2462 MHz+ BLE 1M 2440MHz

(Horizontal)



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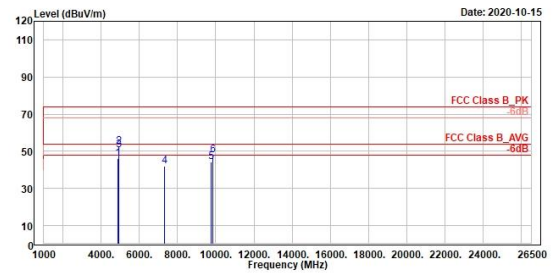


Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	44.99	54.30	-9.31	74.00	-29.01	100	354	Peak	horizontal	
2	4924.00	51.32	60.54	-9.22	74.00	-22.68	111	216	Peak	horizontal	
3	4924.00	48.73	57.95	-9.22	54.00	-5.27	111	216	Average	horizontal	
4	7320.00	47.82	54.52	-6.70	74.00	-26.18	200	291	Peak	horizontal	
5	7386.00	40.96	47.72	-6.76	74.00	-33.04	100	271	Peak	horizontal	
6	9760.00	41.08	44.95	-3.87	74.00	-32.92	300	10	Peak	horizontal	
7	9848.00	51.09	54.91	-3.82	74.00	-22.91	100	118	Peak	horizontal	
8	9848.00	47.48	51.30	-3.82	54.00	-6.52	100	118	Average	horizontal	

(Vertical)



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Peak	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4880.00	46.30	55.61	-9.31	74.00	-27.70	200	176	Peak	vertical	
2	4924.00	52.54	61.76	-9.22	74.00	-21.46	289	214	Peak	vertical	
3	4924.00	50.65	59.87	-9.22	54.00	-3.35	289	214	Average	vertical	
4	7320.00	41.75	48.45	-6.70	74.00	-32.25	200	252	Peak	vertical	
5	9760.00	44.03	47.90	-3.87	74.00	-29.97	200	319	Peak	vertical	
6	9848.00	47.70	51.52	-3.82	74.00	-26.30	100	265	Peak	vertical	