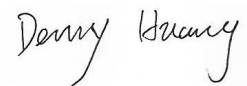


APPLICANT NAME & ADDRESS	
ST Engineering Info-Security Pte. Ltd 100 Jurong East Street 21 609602 Singapore	
PRODUCT NAME	Communication Module
MODEL NUMBER	LBEE5XV1YM
FCC ID	2BTY5WKPE5XV1YM
TEST STANDARDS	47 CFR FCC PART 15 SUBPART E ISED RSS-247 ISSUE 4

TEST LABORATORY & ADDRESS	
☒ ①KT UL INTERNATIONAL-SINGAPORE PTE LTD 20 KIAN TECK LANE SINGAPORE 627854	☐ ②JK UL INTERNATIONAL-SINGAPORE PTE LTD 15 JOO KOON CRESCENT SINGAPORE 629015

RECEIPT OF EUTs	24 Oct 2025	TEST PERIOD	24 Oct 2025 ~ 28 April 2026
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PREPARED BY	APPROVED BY
 JONATHAN HE SENIOR LABORATORY TECHNICIAN	 DENNY HUANG SENIOR PROJECT ENGINEER

This report shall not be reproduced, except in full, without the written approval from the Laboratory. The results in this report apply only to the test sample(s) specified and at the time of testing period only. The results are not to be used to indicate applicability to other similar products.

The results reported herein have been performed in accordance with the laboratory's terms of accreditation under the Singapore Accreditation Council.



SUMMARY OF TEST RESULTS

Clause	Test Items	FCC/ISED Rules	Test Results
1	Radiated Bandedge and Spurious Emission	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Pass
Note: This is a spot check test report for Single Module LBEE5XV1YM (FCC ID: 2BTY5WKPE5XV1YM), the Single Module LBEE5XV1YM use on the host product portable encryptor (Model No.: WKX-YYZZZZZ), BEE5XV1YM changed the antenna (antenna type is the same and have a smaller antenna gain), but all the RF parameters of the module remained unchanged (declared by the manufacturer), so Lab only performed the radiated bandedge and spurious emission test for the host, for other test data, please refer to the original module report ER/2020/C0065 and TERF2402000378E2.			

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RELEASE CONTROL RECORDS

For any necessary material amendments or modifications to a test report after issue, it will be made only in the form of a new revision of test report. The latest revision of test report replaces all former test reports issued. The former test reports are no longer valid.

It will be uniquely identified with a new revision number and be clearly recorded in the table below, including the change description and a reference to the original test report that it replaces.

Revision	Report Date	Description	Revised by
Ø	16 March 2026	Initial Issue.	-
R01	21 April 2026	Addressed TCB's Comments	JONATHAN HE
R02	30 April 2026	Added below 1GHz test data	JONATHAN HE
R03	9 May 2026	Moved the test setup photo to Appendix I	JONATHAN HE

PRODUCT DETAILS (INFORMATION PROVIDED BY CUSTOMER)

MANUFACTURER	ST Engineering Info-Security Pte. Ltd 100 Jurong East Street 21 609602 Singapore
PRODUCT NAME	Communication Module
MODEL NUMBER	LBEE5XV1YM
HOST PRODUCT NAME	Wiz-Knight
HOST PRODUCT MODEL NUMBER	WK-YYZZZZZ
HOST PRODUCT SERIAL NUMBER	56
RADIO TECHNOLOGY	IEEE 802.11a/n HT20/n HT40/ac VHT20/ac VHT40/ac VHT80
OPERATION FREQUENCY	5180 MHz ~ 5825 MHz
MODULATION	IEEE 802.11a: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256-QAM)
RATED SUPPLY VOLTAGE	DC 5 V

Note: For more information, please refer to the original module report ER/2020/C0065 and TERF2402000378E2.

CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)		UNII-1 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A (For Bandwidth=20MHz)		UNII-2A (For Bandwidth=40MHz)		UNII-2A (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C (For Bandwidth=20MHz)		UNII-2C (For Bandwidth=40MHz)		UNII-2C (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	/	/
112	5560	126	5630		
116	5580	134	5670		
120	5600	/	/		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
/	/				

UNII-3 (For Bandwidth=20MHz)		UNII-3 (For Bandwidth=40MHz)		UNII-3 (For Bandwidth=80MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	Maximum Antenna Gain (dBi)
1	5150 ~ 5850	Monopole	1.7
2	5150 ~ 5850	Monopole	1.7

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11a	☒ 2TX, 2RX	ANT 1 and ANT 2 can be only used as receiving antenna
IEEE 802.11n HT20	☒ 2TX, 2RX	ANT 1 and ANT 2 can be only used as receiving antenna
IEEE 802.11n HT40	☒ 2TX, 2RX	ANT 1 and ANT 2 can be only used as receiving antenna
IEEE 802.11n VHT20	☒ 2TX, 2RX	ANT 1 and ANT 2 can be only used as receiving antenna
IEEE 802.11n VHT40	☒ 2TX, 2RX	ANT 1 and ANT 2 can be only used as receiving antenna
IEEE 802.11n VHT80	☒ 2TX, 2RX	ANT 1 and ANT 2 can be only used as receiving antenna

Note: The value of the antenna gain was declared by customer.

DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	V15 G4 IRU	/
2	USB to Serial Cable	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type C	Unshielded	1.0	/

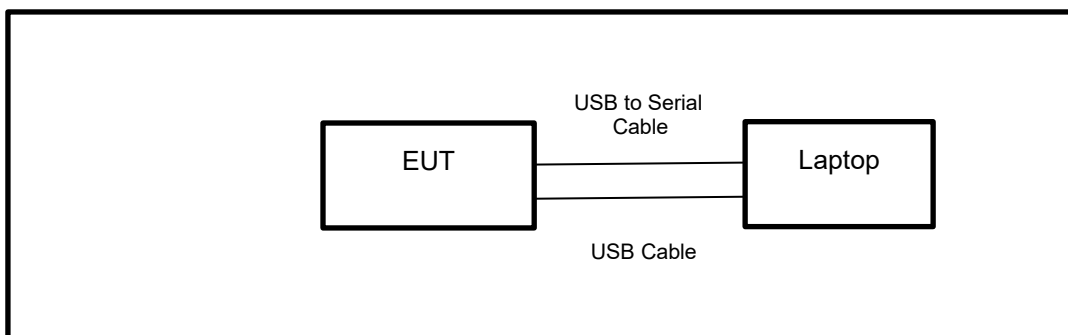
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS



MEASURING EQUIPMENT AND SOFTWARE USED

Below 1GHz RADIATED EMISSION TEST EQUIPMENT					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
EMI Test Receiver	R&S	ESW 44	101838	Aug.19, 2025	Aug.19, 2026
Teseq Bilog Antenna	Teseq	CBL6112B	2874	Mar.11, 2024	Mar.11, 2027
Teseq Loop Antenna	Teseq	6502	00244685	Apr.7, 2026	Apr.7, 2027
Pre-Amplifier	TDK	PA-02-9K1G	TRS-301-00008	May.26, 2025	May.26, 2026
Software					
Description	Manufacturer	Name		Version	
For RSE Test System	Toyo	Toyo EMI Software EP5/RE		V6.0.40	

1 GHz ~ 18 GHz RADIATED EMISSION TEST EQUIPMENT					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
EMI Test Receiver	R&S	ESW 44	103517	Apr.14, 2025	Apr.14, 2026
Horn Antenna	Schwarzbeck	BBHA 9120 D	01981	Mar.11, 2024	Mar.11, 2027
Horn Antenna	Schwarzbeck	BBHA 9120 C	519	Oct.22, 2024	Oct.22, 2027
Pre-Amplifier	EMC Instruments Corporation	EMC051845SE	980631	Apr.4, 2025	Apr.4, 2026
Band Reject Filter	MICRO-TRONICS	BRC50750	G116	Jul.1, 2025	Jul.1, 2026
Software					
Description	Manufacturer	Name		Version	
For RSE Test System	Toyo	Toyo EMI Software EP5/RE		V6.0.40	

18 GHz ~ 40 GHz RADIATED EMISSION TEST EQUIPMENT					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
EMI Test Receiver	R&S	ESW 44	103517	Apr.14, 2025	Apr.14, 2026
Horn Antenna	Schwarzbeck	BBHA9170	00885	Jan.24, 2025	Jan.24, 2026
Pre-Amplifier	Schwarzbeck	EMCI	EMC184045SE	Jan.16, 2025	Jan.16, 2026
Software					
Description	Manufacturer	Name		Version	
For Radiated Emission Test	Toyo	Toyo EMI Software EP5/RE		V6.0.40	

EXTERNAL EUT PHOTOGRAPHS

Refer to “4791916612 Appendix I External Photographs”.

INTERNAL EUT PHOTOGRAPHS

Refer to “4791916612 Appendix II Internal Photographs”.

DEVIATION FROM TEST METHOD

No deviation from standard test method

MODIFICATION OF EUT FOR COMPLIANCE

No modifications were made to the EUT

DECISION RULES AND MEASUREMENT UNCERTAINTY

METROLOGICAL TRACEABILITY

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

DECISION RULE

The decision rule is based on simple acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

MEASUREMENT UNCERTAINTY

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

Test Item	Measurement Frequency Range	K	U
Radiated Emission	1 GHz ~ 18 GHz	2	5.94dB
	18 GHz ~ 40 GHz	2	4.94dB

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

Note 2: The above MU includes the uncertainty contribution of the table on EUT radiated emissions given in 5.5 of CISPR 16-1-4:2010-04.

RADIATED TEST RESULTS

LIMITS

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

Please refer to ISSED RSS-GEN Clause 8.9 and Clause 8.10.

Emissions radiated outside of the specified frequency bands above 30 MHz				
Frequency Range (MHz)	Field Strength Limit		Field Strength Limit	
	(dBuV/m) at 10 m		(dBuV/m) at 3 m	
	Quasi-Peak		Peak	Average
30 - 88	39.08		/	
88 - 216	43.52		/	
216 - 960	46.44		/	
Above 960	49.54		/	
Above 1000	/		74	54

Emissions radiated outside of the specified frequency bands			
Frequency Range (MHz)	Field Strength Limit		
	(dBuV/m) at 3 m		
	Peak	Average	
Above 1000	74	54	

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISSED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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

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

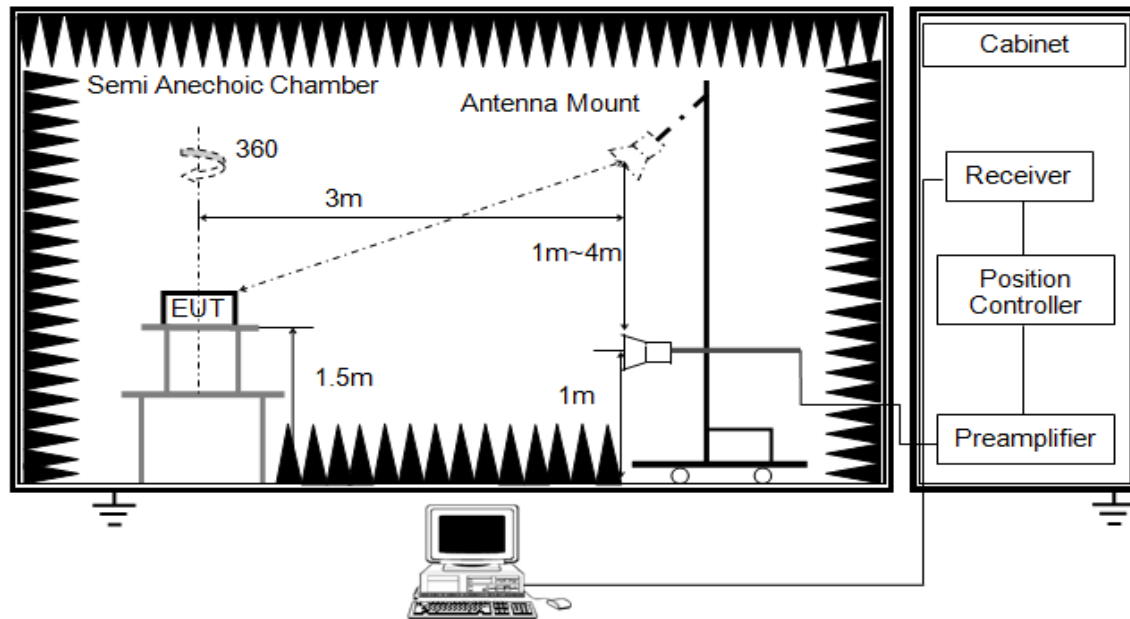
²Above 38.6c

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.8 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
106 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

Above 1 GHz

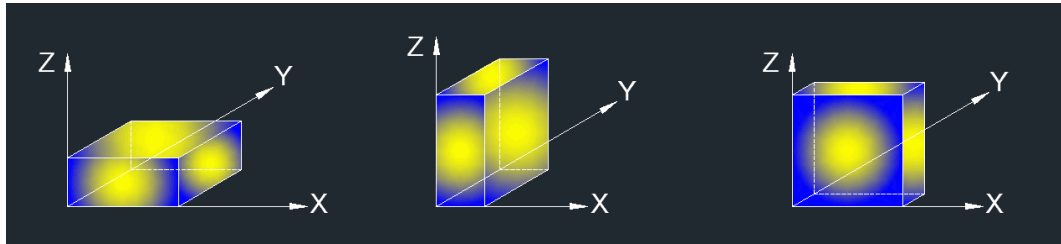


The setting of the spectrum analyzer

RBW	1 MHz
VBW	3 MHz
Sweep	Auto
Detector	Peak
Trace	Max hold

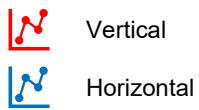
1. The testing follows the guidelines in ANSI C63.10-2013 clause 11.11 and 11.12.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements.

X axis, Y axis, Z axis positions:



Note: EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.

TEST DATA GRAPH LEGEND



RESULTS

RESTRICTED BANDEDGE

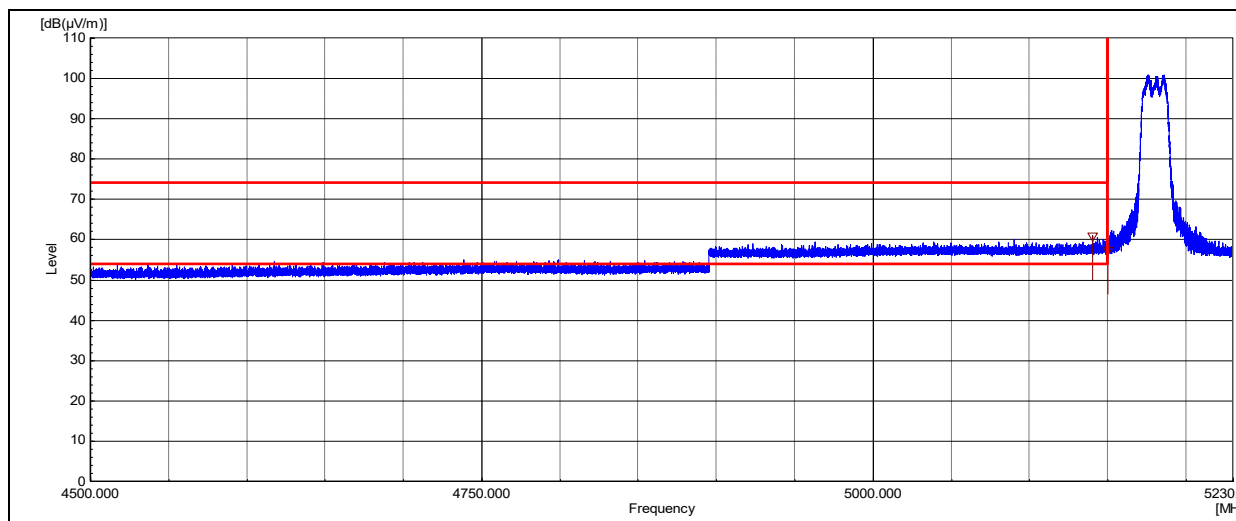
TEST ENVIRONMENT

Temperature	24.6 °C	Relative Humidity	49%
Test Voltage	DC 5 V		

TEST DATE / ENGINEER

Test Date	October 27, 2025	Test By	Denny Huang
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802.11A MODE RESTRICTED BANDEDGE (5180MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5140.321	H	22.8	38.2	61	74	13
5150	H	19.3	38.2	57.5	74	16.5

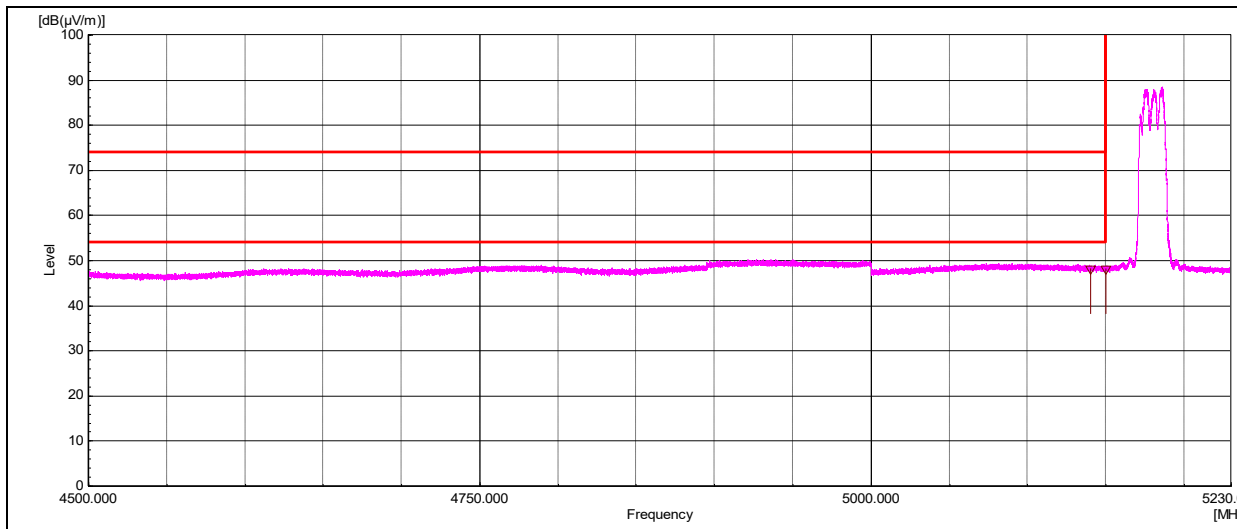
Note: 1. Level = Reading (Level) + (Correct) Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.

3. Peak: Peak detector.

4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

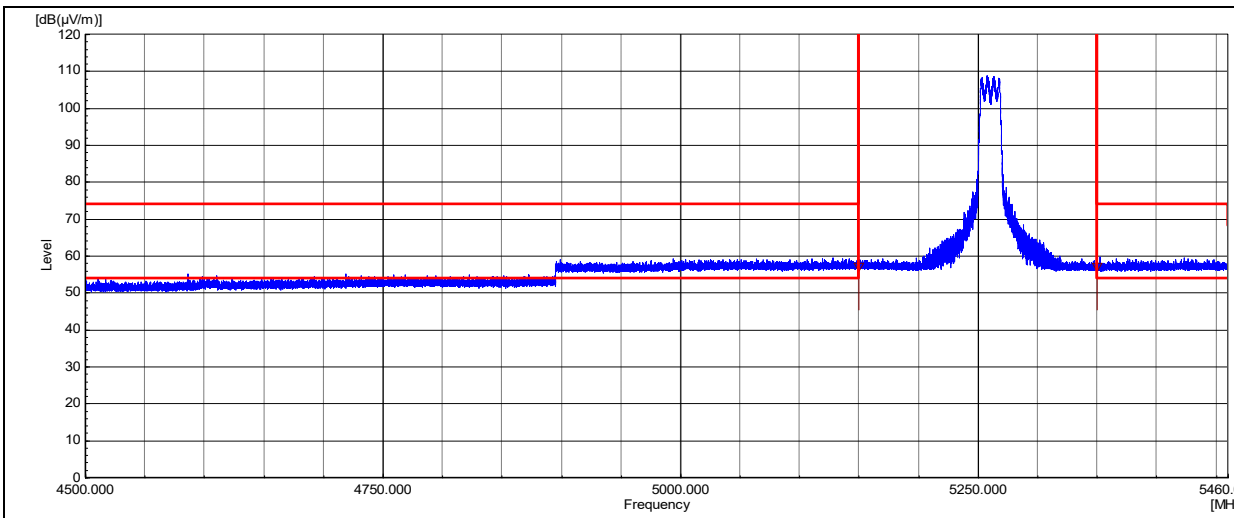
802.11A MODE RESTRICTED BANDEDGE (5180MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]
5140.321	H	9.9	38.2	48.1	54	5.9
5150	H	10.1	38.2	48.3	54	5.7

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. AV: Average detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

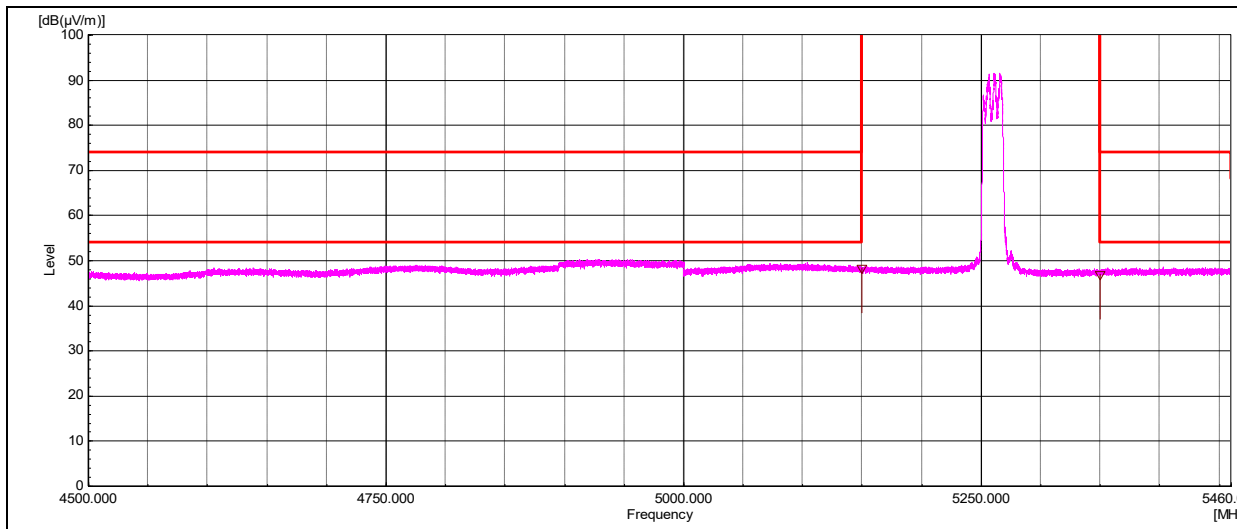
802.11A MODE RESTRICTED BANDEDGE (5260MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5150	H	19.2	38.2	57.4	74	16.6
5350	H	19.8	37.6	57.4	74	16.6

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. Peak: Peak detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

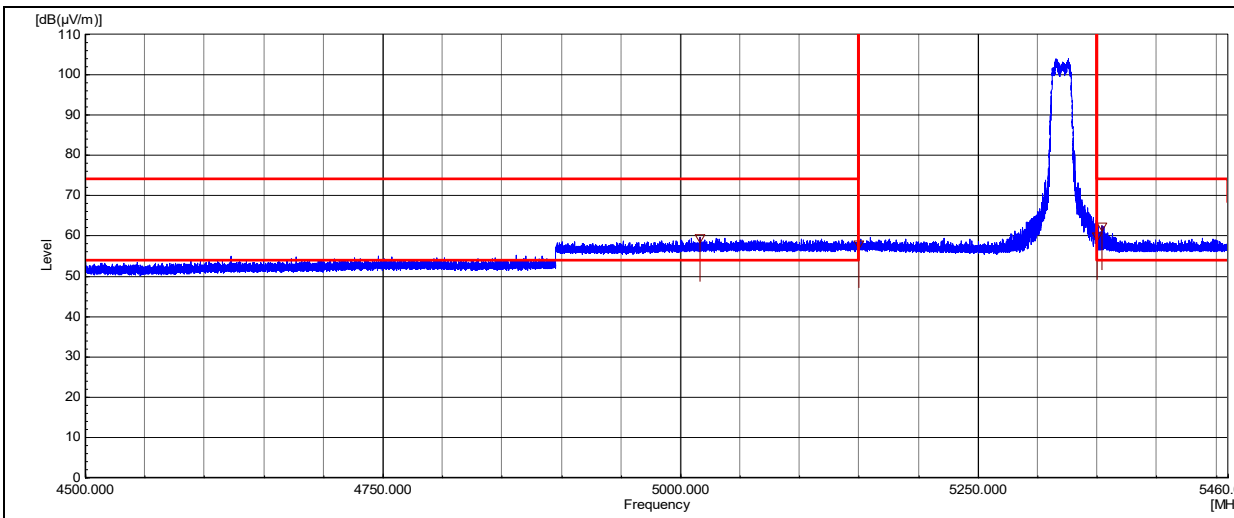
802.11A MODE RESTRICTED BANDEDGE (5260MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]
5150	H	10.1	38.2	48.3	54	5.7
5350	H	9.4	37.6	47	54	7

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. AV: Average detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

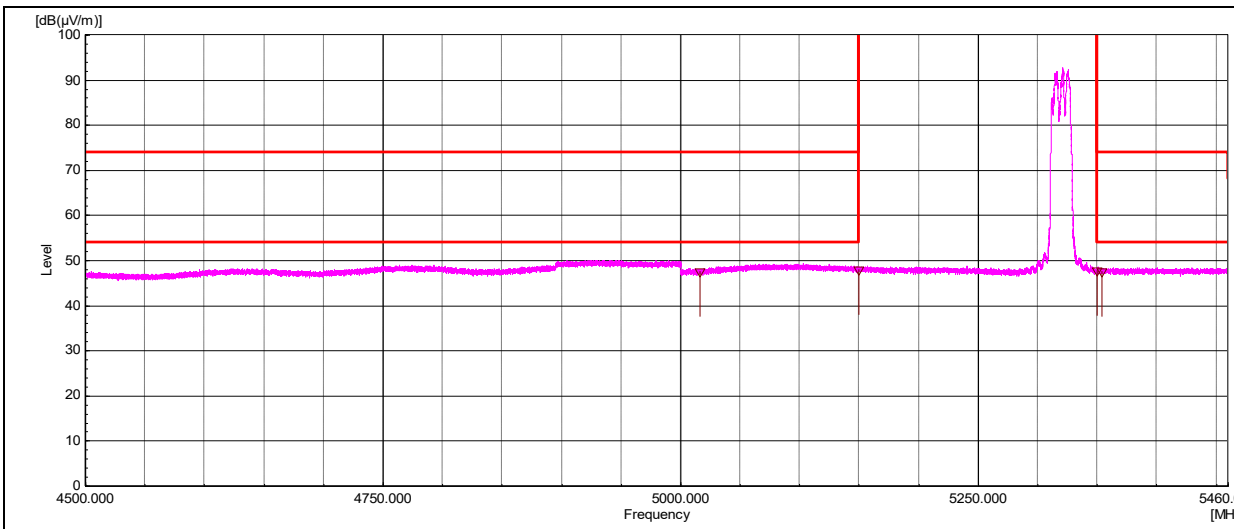
802.11A MODE RESTRICTED BANDEDGE (5320MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5016.376	H	21.9	37.7	59.6	74	14.4
5150	H	19.9	38.2	58.1	74	15.9
5350	H	22.6	37.6	60.2	74	13.8
5353.636	H	25	37.6	62.6	74	11.4

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. Peak: Peak detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

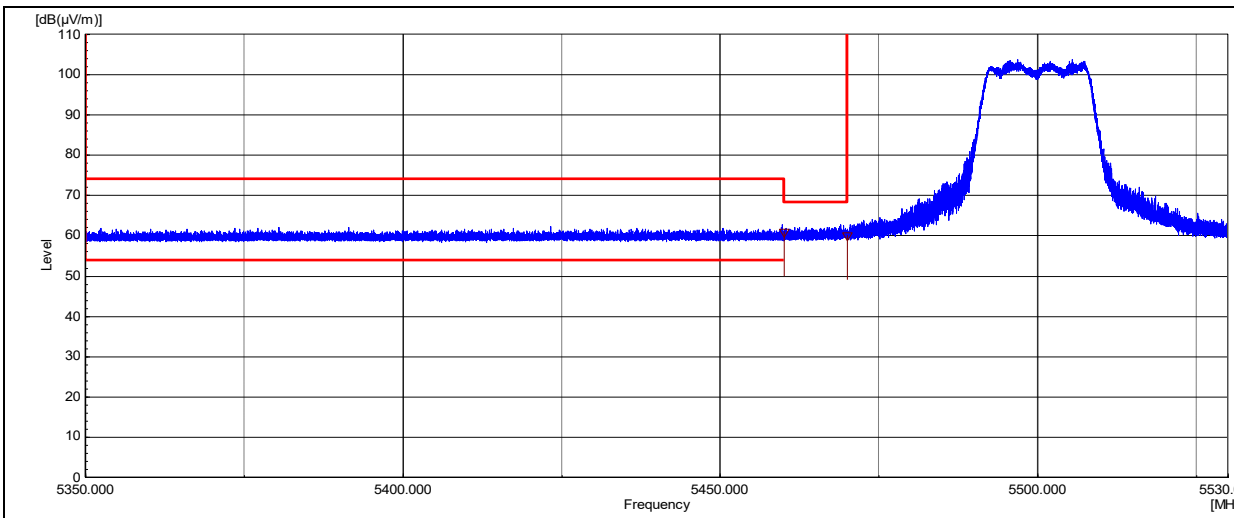
802.11A MODE RESTRICTED BANDEDGE (5320MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]
5016.376	H	9.9	37.7	47.6	54	6.4
5150	H	9.9	38.2	48.1	54	5.9
5350	H	10.1	37.6	47.7	54	6.3
5353.636	H	10	37.6	47.6	54	6.4

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. AV: Average detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

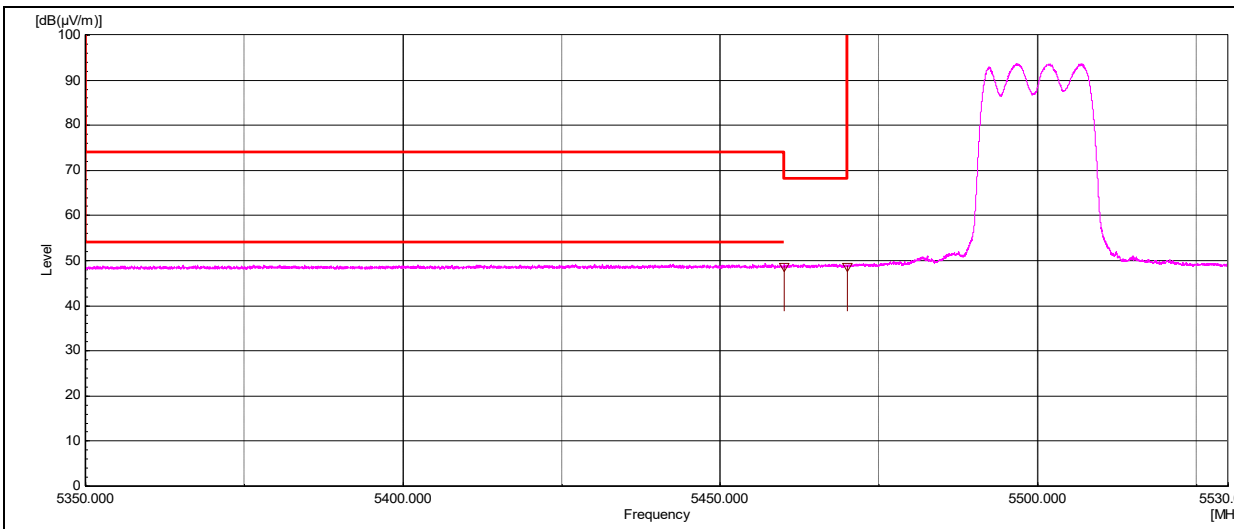
802.11A MODE RESTRICTED BANDEDGE (5500MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5460	H	22.9	38.1	61	68.2	7.2
5470	H	22	38.1	60.1	68.2	8.1

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. Peak: Peak detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

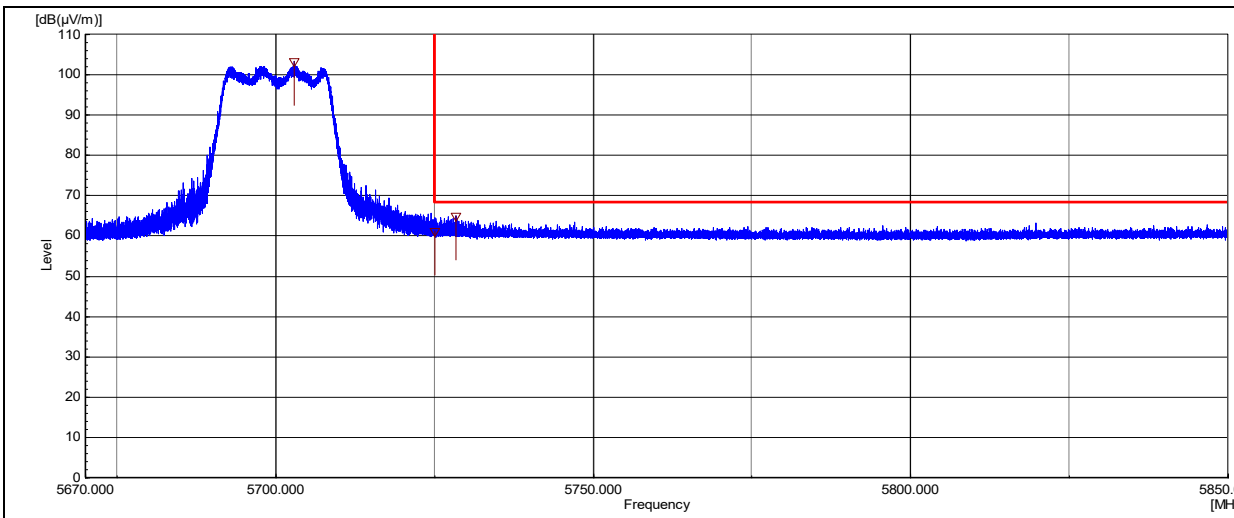
802.11A MODE RESTRICTED BANDEDGE (5500MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]
5470	H	10.6	38.1	48.7	0	-48.7
5460	H	10.7	38.1	48.8	54	5.2

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. AV: Average detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

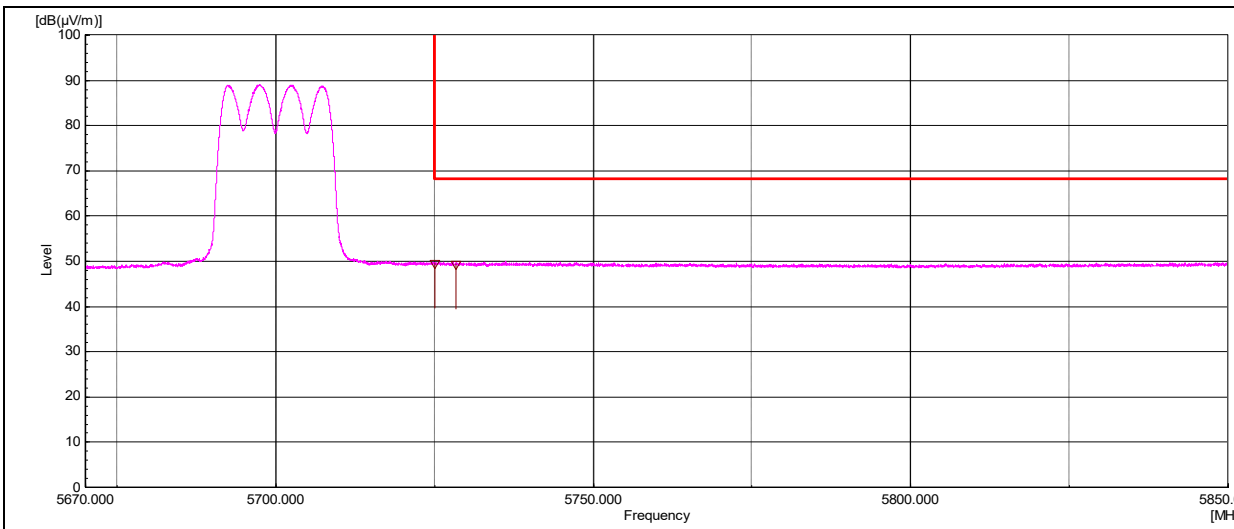
802.11A MODE RESTRICTED BANDEDGE (5700MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5725	H	22.8	38.5	61.3	68.2	6.9
5728.315	H	26.6	38.5	65.1	68.2	3.1

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. Peak: Peak detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

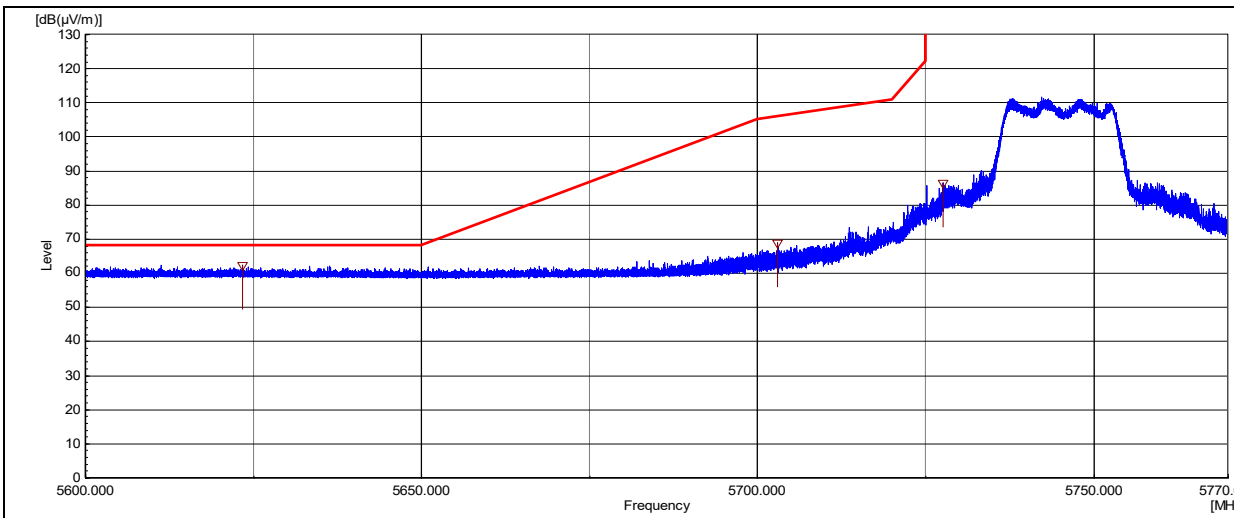
802.11A MODE RESTRICTED BANDEDGE (5700MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level AV [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin AV [dB]
5725	H	11	38.5	49.5	0	-49.5
5728.315	H	11	38.5	49.5	0	-49.5

- Note: 1. Level = Reading (Level) + (Correct) Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.
3. AV: Average detector.
4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

802.11A MODE RESTRICTED BANDEDGE (5745MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5623.311	H	24.3	38.2	62.5	68.2	5.7
5703.003	H	30.5	38.3	68.8	106	37.2
5727.527	H	47.9	38.5	86.4	/	/

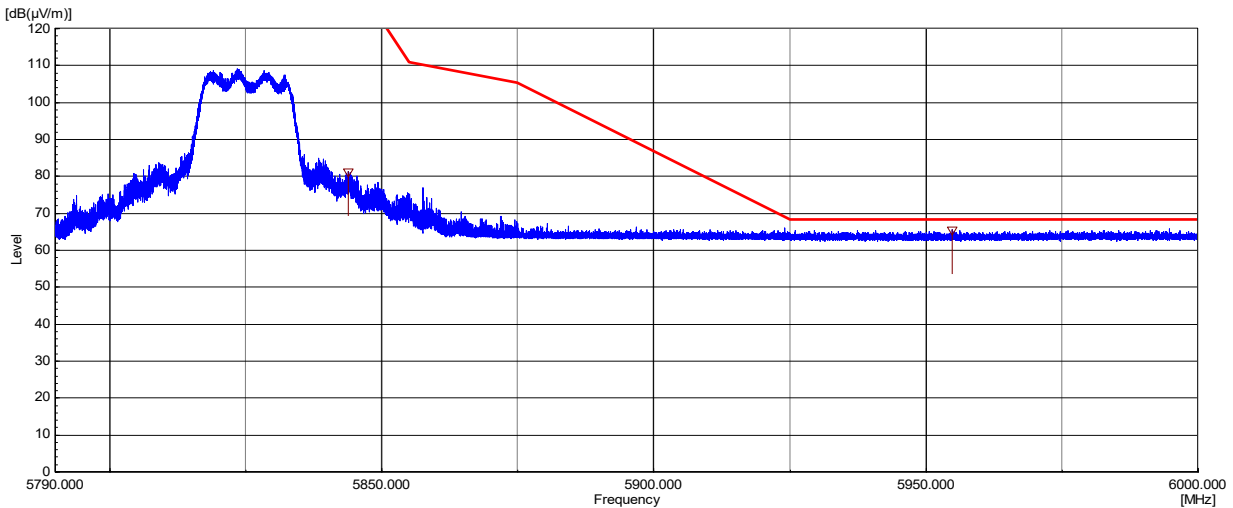
Note: 1. Level = Reading (Level) + (Correct) Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.

3. Peak: Peak detector.

4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

802.11A MODE RESTRICTED BANDEDGE (5825MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
5843.774	H	42.5	38.8	81.3	/	/
5954.83	H	26.7	38.9	65.6	68.2	2.6

Note: 1. Level = Reading (Level) + (Correct) Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.

3. Peak: Peak detector.

4. Pre-scan was done for all modes, but only the worst data was recorded in the report.

SPURIOUS EMISSIONS (1 GHz ~ 8 GHz)

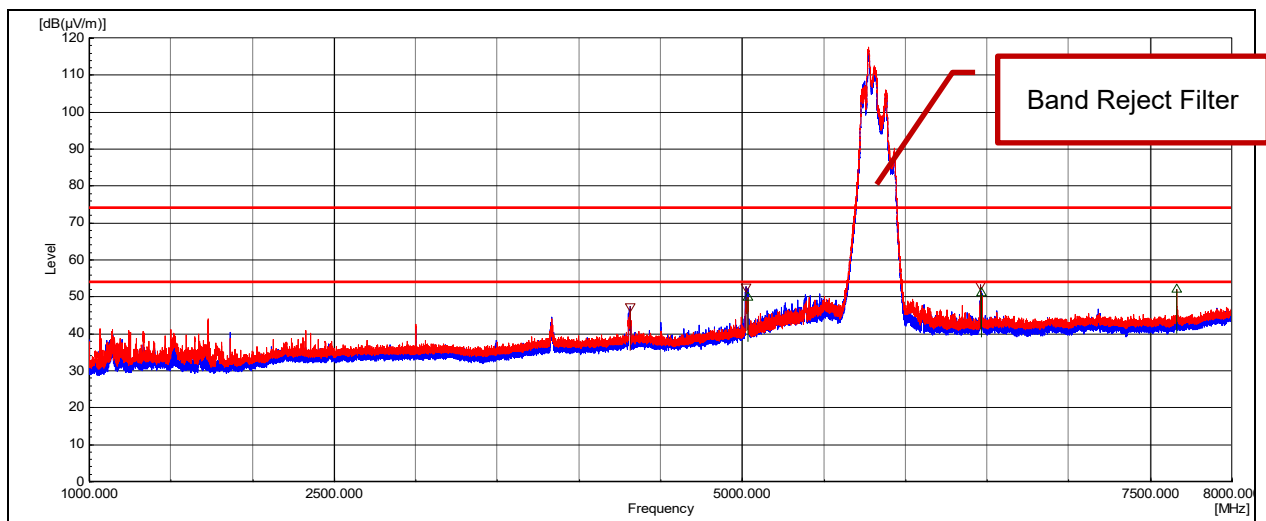
TEST ENVIRONMENT

Temperature	24.4 °C	Relative Humidity	52%
Test Voltage	DC 5 V		

TEST DATE / ENGINEER

Test Date	November 3, 2025	Test By	Denny Huang
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802.11A MODE HARMONICS AND SPURIOUS EMISSIONS (5745 MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
4313.709	H	63.7	-16.3	47.4	74	26.6
5023.537	H	67.7	-15	52.7	74	21.3
5031.549	V	64.8	-14.9	49.9	74	24.1
6455.919	H	65.8	-12.7	53.1	74	20.9
6465.346	V	63.6	-12.7	50.9	74	23.1
7659.94	V	62.7	-10.8	51.9	74	22.1

Note: 1. Level = Reading (Level) + (Correct) Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.

3. PK: Peak detector.

4. Band reject filter was used during the test.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Pre-scan was done for all modes and channels, but only the worst data was recorded in the report.

SPURIOUS EMISSIONS (8 GHz ~ 18 GHz)

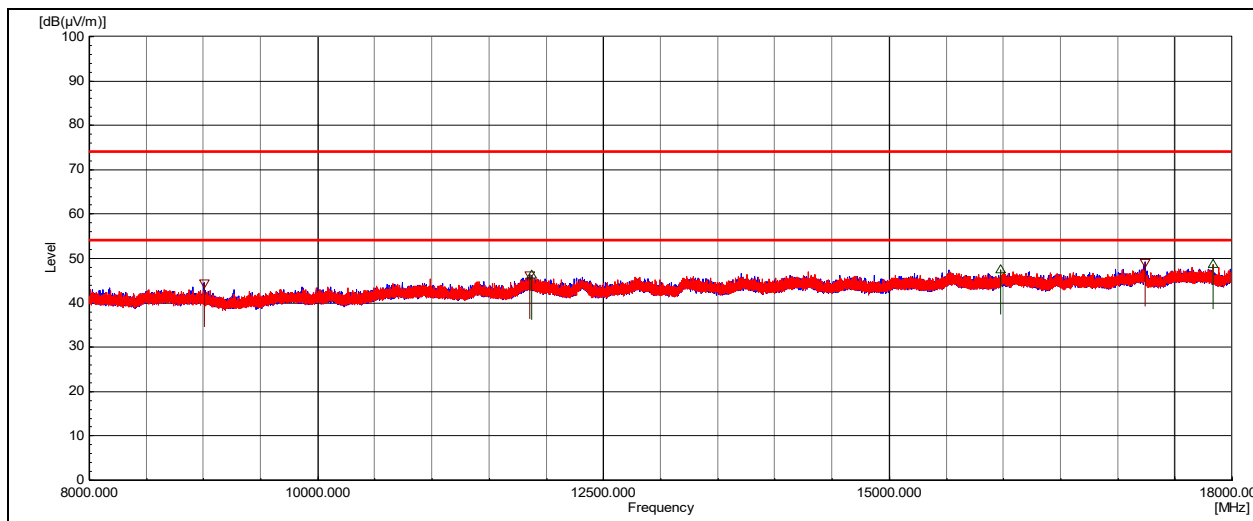
TEST ENVIRONMENT

Temperature	24.6 °C	Relative Humidity	49%
Test Voltage	DC 5 V		

TEST DATE / ENGINEER

Test Date	October 27, 2025	Test By	Denny Huang
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802.11A MODE HARMONICS AND SPURIOUS EMISSIONS (5745 MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
9000.91	H	48.2	-3.6	44.6	74	29.4
11849.11	H	44.6	1.9	46.5	74	27.5
11867.29	V	44.3	1.9	46.2	74	27.8
15970.25	V	45.2	2.1	47.3	74	26.7
17237.8	H	45.6	3.6	49.2	74	24.8
17832.35	V	44.7	3.9	48.6	74	25.4

Note: 1. Level = Reading (Level) + (Correct) Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.

3. PK: peak detector.

4. Band reject filter was used during the test.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Pre-scan was done for all modes and channels, but only the worst data was recorded in the report.

SPURIOUS EMISSIONS (18 GHz ~ 40 GHz)

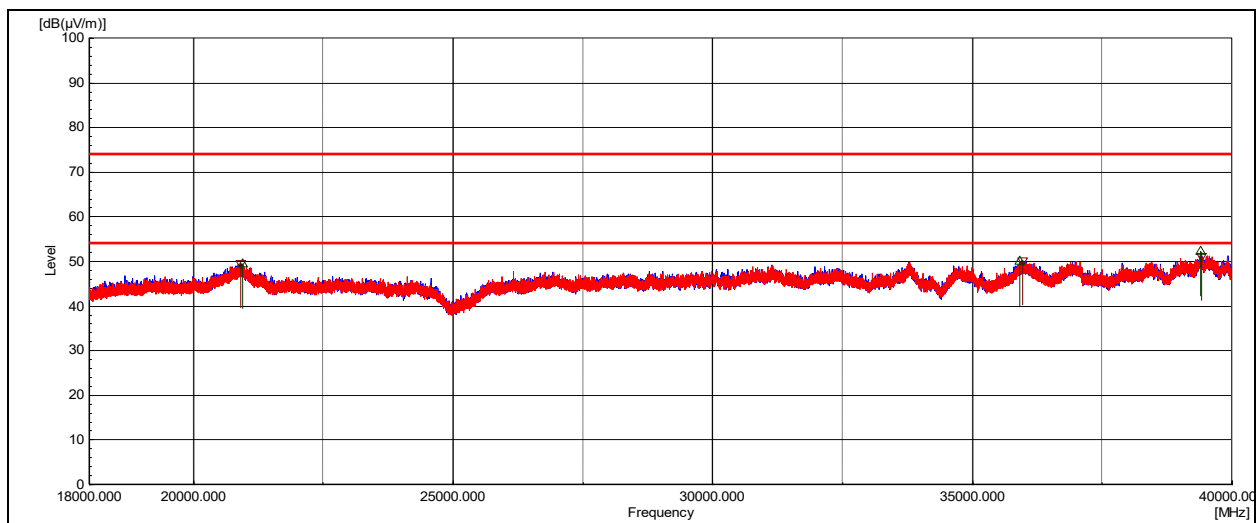
TEST ENVIRONMENT

Temperature	24.1 °C	Relative Humidity	51%
Test Voltage	DC 5 V		

TEST DATE / ENGINEER

Test Date	November 4, 2025	Test By	Denny Huang
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802.11A MODE HARMONICS AND SPURIOUS EMISSIONS (5745 MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]
20903.26	H	51.3	-1.7	49.6	74	24.4
20950.93	V	51.2	-1.8	49.4	74	24.6
35905.8	V	49.6	0.4	50	74	24
35971.8	H	49.6	0.6	50.2	74	23.8
39387.67	V	49.4	2.9	52.3	74	21.7
39401.6	H	48.2	3	51.2	74	22.8

Note: 1. Level = Reading (Level) + (Correct) Factor.

2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with the average limit.

3. PK: Peak detector.

4. Proper operation of the transmitter prior to adding the filter to the measurement chain.

5. Pre-scan was done for all modes and channels, but only the worst data was recorded in the report.

SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

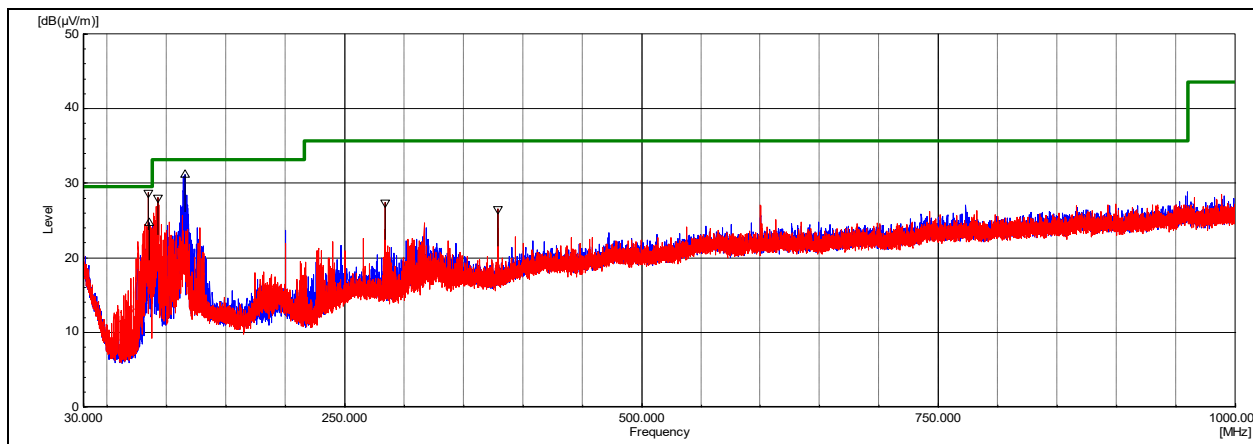
TEST ENVIRONMENT

Temperature	26.3 °C	Relative Humidity	65%
Test Voltage	DC 5 V		

TEST DATE / ENGINEER

Test Date	April 28, 2026	Test By	Jonathan He
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802.11A MODE HARMONICS AND SPURIOUS EMISSIONS (5745 MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]
84.635	V	52	-23.2	28.8	29.5	0.7
115.561	H	50.3	-19.2	31.1	33.1	2
84.994	H	47.8	-23.1	24.7	29.5	4.8
92.505	V	49.8	-21.8	28	33.1	5.1
283.677	V	45	-17.6	27.4	35.6	8.2
378.741	V	42.4	-15.8	26.6	35.6	9

Note: 1. Level = Reading (Level) + (Correct) Factor.

2. QP: Quasi-peak detector.

3. All modes and channels have been tested, only the worst data was recorded in the report.

4. If the peak values are less than the limit of, the average/quasi-peak result is deemed to comply with the average limit.

5. Pre-scan was done for all modes and channels, but only the worst data was recorded in the report.

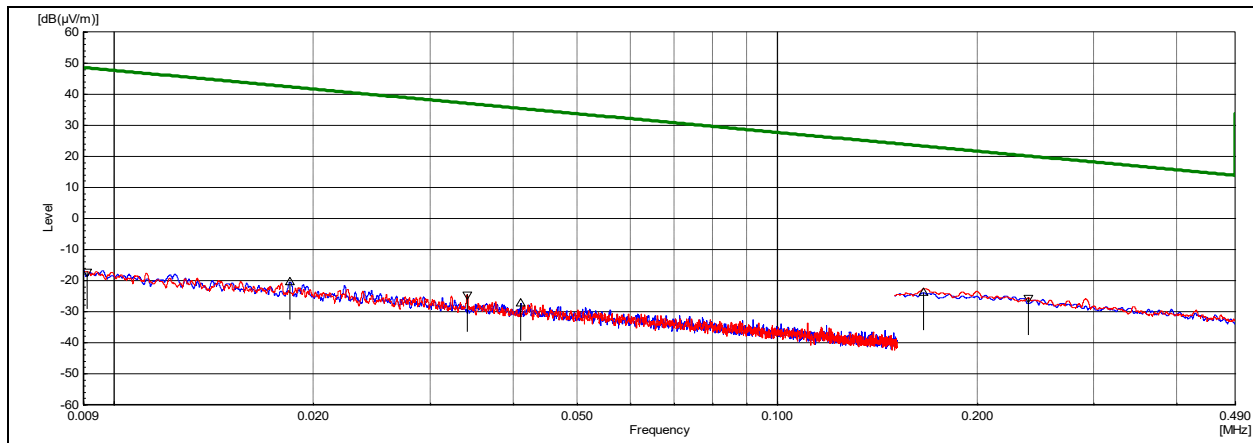
SPURIOUS EMISSIONS (9 kHz ~ 30 MHz)**TEST ENVIRONMENT**

Temperature	26.3 °C	Relative Humidity	65%
Test Voltage	DC 5 V		

TEST DATE / ENGINEER

Test Date	April 28, 2026	Test By	Jonathan He
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802.11A MODE HARMONICS AND SPURIOUS EMISSIONS (5745 MHz)



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]
0.239	V	42.8	-68.4	-25.6	20	45.6
0.166	H	44.3	-68.2	-23.9	23.2	47.1
0.034	V	42	-66.4	-24.4	37	61.4
0.041	H	39.4	-66.7	-27.3	35.3	62.6
0.018	H	44.4	-64.8	-20.4	42.3	62.7
0.009	V	43.9	-60.9	-17	48.4	65.4

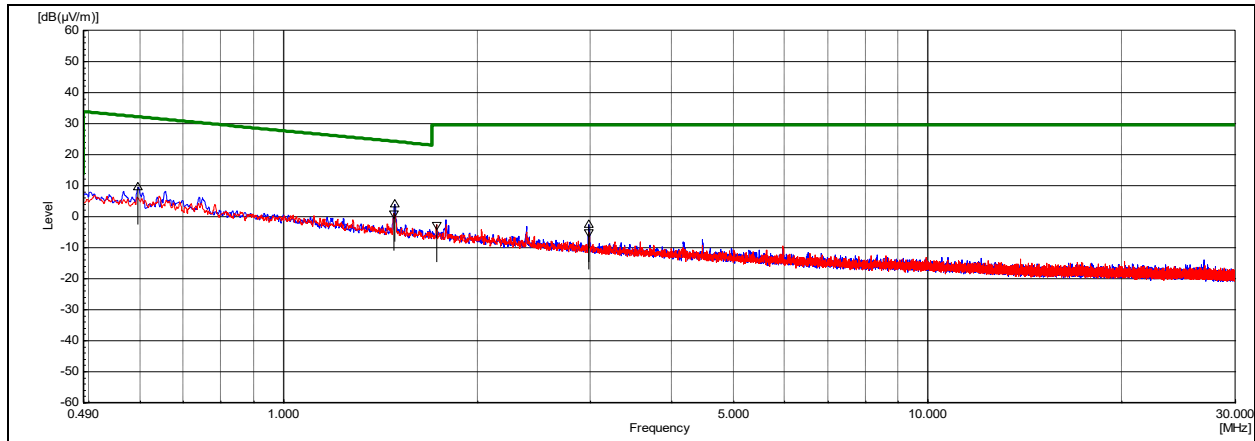
Note: 1. Level = Reading (Level) + (Correct) Factor.

2. QP: Quasi-peak detector.

3. All modes and channels have been tested, only the worst data was recorded in the report.

4. If the peak values are less than the limit of, the average/quasi-peak result is deemed to comply with the average limit.

5. Pre-scan was done for all modes and channels, but only the worst data was recorded in the report.



Frequency [MHz]	(P)	Reading [dB(μV)]	Factor [dB(1/m)]	Level PK [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]
1.488	H	32.4	-28.4	4	24.1	20.1
0.595	H	37.9	-28.5	9.4	32.1	22.7
1.485	V	29.4	-28.4	1	24.2	23.2
2.978	H	25.6	-28.2	-2.6	29.5	32.1
1.729	V	25.6	-28.3	-2.7	29.5	32.2
2.978	V	23.2	-28.2	-5	29.5	34.5

Note: 1. Level = Reading (Level) + (Correct) Factor.

2. QP: Quasi-peak detector.

3. All modes and channels have been tested, only the worst data was recorded in the report.

4. If the peak values are less than the limit of, the average/quasi-peak result is deemed to comply with the average limit.

5. Pre-scan was done for all modes and channels, but only the worst data was recorded in the report.

TEST SETUP PHOTOGRAPHS

Refer to “4791916612 Appendix III Test Setup Photographs”.

END OF TEST REPORT