

CFR 47 FCC PART 15 SUBPART C TEST REPORT

For

Remote Controller

MODEL NUMBER: RR-CONTROL-EASYLUX-1+4-CH

ADDITIONAL MODEL NUMBER: Remote control 4-chan

PROJECT NUMBER: 4791074448

REPORT NUMBER: 4791074448-1

FCC ID: 2BD9AS05092-2036

ISSUE DATE: Jan. 02, 2024

Prepared for

L&S Lighting Equipment (Shanghai) Co., Ltd.

Prepared by

UL-CCIC COMPANY LIMITED

No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China

Tel: +86 512-6808 6400 Fax: +86 512-6808 4099 Website: www.ul.com



Report No.: 4791074448-1 Page 2 of 49

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	01/02/2024	Initial Issue	



Page 3 of 49

Summary of Test Results					
Clause	Clause Test Items FCC Rules				
1	20 dB Bandwidth	CFR 47 FCC §15.215 (c)	Pass		
2	Radiated Emission	CFR 47 FCC §15.249 (a)(d)(e) CFR 47 FCC §15.205 and §15.209	Pass		
3	Conducted Emission Test for AC Power Port	CFR 47 FCC §15.207	N/A		
4	Antenna Requirement	CFR 47 FCC §15.203	Pass		

Note 1: "N/A" denotes test is not applicable in this Test Report.

Note 2: The product is powered by battery.

Note 3: The measurement result for the sample received is < Pass > according to < CFR 47

FCC PART 15 SUBPART C > when < Accuracy Method > decision rule is applied.



TABLE OF CONTENTS

1. A	TTESTATION OF TEST RESULTS	5
2. TE	EST METHODOLOGY	6
3. F	ACILITIES AND ACCREDITATION	6
4. C	ALIBRATION AND UNCERTAINTY	7
4.1.	MEASURING INSTRUMENT CALIBRATION	
4.2.	MEASUREMENT UNCERTAINTY	7
5. E0	QUIPMENT UNDER TEST	8
5.1.	DESCRIPTION OF EUT	8
5.2.	MAXIMUM EMISSIONS FIELD STRENGTH	9
5.3.	CHANNEL LIST	9
5.4.	TEST CHANNEL CONFIGURATION	9
5.5.	THE WORSE CASE CONFIGURATIONS	9
5.6.	DESCRIPTION OF AVAILABLE ANTENNAS	_
5.7.	DESCRIPTION OF TEST SETUP	11
5.8.	MEASURING INSTRUMENT AND SOFTWARE USED	12
6. AI	NTENNA PORT TEST RESULTS	13
6.1.	ON TIME AND DUTY CYCLE	13
6.2.	20 dB BANDWIDTH AND 99 % OCCUPIED BANDWIDTH	15
7. R	ADIATED TEST RESULTS	18
7.1.	LIMITS AND PROCEDURE	18
7.2.	RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMIS 24	SSIONS
7.3.	SPURIOUS EMISSIONS BELOW 30M	30
7.4.	SPURIOUS EMISSIONS 30MHz ~ 1GHz	33
7.5.	SPURIOUS EMISSIONS 1GHz ~ 3GHz	35
7.6.	SPURIOUS EMISSIONS 3GHz ~ 18GHz	41
7.7.	SPURIOUS EMISSIONS 18GHz ~26GHz	47
Ω ΔΙ	NTENNA REQUIREMENTS	49



Page 5 of 49

1. ATTESTATION OF TEST RESULTS

Applicant Information			
Company Name:	L&S Lighting Equipment (Shanghai) Co., Ltd.		
Address:	Building No.1, Lane 255 Longpan Road, Malu Town, Jiading District, Shanghai, China		
Manufacturer Information			
Company Name:	L&S Lighting Equipment (Shanghai) Co., Ltd.		
Address:	Building No.1, Lane 255 Longpan Road, Malu Town, Jiading District, Shanghai, China		
Factory Information-1			
Company Name:	L&S Lighting Equipment (Shanghai) Co., Ltd.		
Address:	Building NO.1, Lane 255, Longpan Road, Malu Town, Jiading District, Shanghai, 201801, China		
Factory Information-2			
Company Name:	Zhejiang Klite Lighting Holdings Co., Ltd		
Address:	No 12, Tingchao Rd, Jianshan New District, Haining, Zhejiang, 314416, China		
EUT Description			
Product Name:	Remote Controller		
Model Number:	RR-CONTROL-EASYLUX-1+4-CH		
Additional Moel Number:	Remote control 4-chan		
Model Difference:	The two models are identical except model number.		
Sample Number:	6720020		
Data of Receipt Sample:	Dec. 05, 2023		
Date Tested:	Dec. 05, 2023~ Jan. 02, 2024		

APPLICABLE STANDARDS STANDARD TEST RESULTS CFR 47 FCC PART 15 SUBPART C PASS

Prepared By:	Reviewed By:
Tom Tang	Keun. Shen
Tom Tang	Kevin Shen
Authorized By:	
Leon Wu	
Leon Wu	



Page 6 of 49

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
------------------------------	--

Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China.

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



Page 7 of 49

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty	
Emission Bandwidth	±9.2 PPM	
Unwanted Emissions in Non-restricted Freq Bands	9kHz-30MHz: ±0.90dB 30MHz-1GHz: ±1.5 dB 1GHz-12.75GHz: ±1.9dB 12.75GHz-26.5GHz: ±2.1dB	
Radiation Emission test (include Fundamental emission) (9kHz-30MHz)	3.4dB	
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	3.4dB	
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	3.5dB (1GHz-18GHz)	
(**************************************	3.9dB (18GHz-26.5GHz)	

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



Page 8 of 49

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name:	Remote Controller		
Model No.:	RR-CONTROL-EASYLUX-1+4-CH		
Operating Frequency:	Operation Frequency	2405 MHz ~ 2480 MHz	
Operating Frequency:	Modulation Type	O-QPSK	
Channels Step:	Channels with 5MHz step		
Test Software of EUT:	sscom (manufacturer declare)		
Antenna Type:	PCB Antenna		
	-2.65 dBi		
Antenna Gain:	Note: This data is provided by customer and our lab isn't responsible for this data.		
Power Supply:	DC 3V		



Page 9 of 49

5.2. MAXIMUM EMISSIONS FIELD STRENGTH

Number of Transmit Chains (NTX)	Frequency (MHz)	Channel Number	Max PK Field Strength (dBµV/m)
1	2405-2480	1-16	90.69

5.3. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	12	2410	13	2415	14	2420
15	2425	16	2430	17	2435	18	2440
19	2445	20	2450	21	2455	22	2460
23	2465	24	2470	25	2475	26	2480

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency	
TX	CH 11, CH 19, CH 26	2405MHz, 2445MHz, 2480MHz	

5.5. THE WORSE CASE CONFIGURATIONS

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band					
Test Software	sscom				
-	Test Channel				
Transmit Antenna Number	NCB: 2MHz				
Number	CH 11	CH 19	CH 26		
1	2405 2445 2480				

5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band					
Test Software		sscom			
Modulation Type Transmit Antenna		Test Channel			
Woddiation Type	Number	LCH	MCH	HCH	
O-QPSK	1	0	0	0	



Page 10 of 49

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2405-2480	PCB Antenna	-2.65

Note: This data is provided by customer and the lab isn't responsible for this data.

Test Mode	Transmit and Receive Mode	Description
Zigbee	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.

5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests		
Relative Humidity	55 ~ 65%		
Atmospheric Pressure:	101kPa		
Temperature	TN	23 ~ 28°C	
	VL	N/A	
Voltage:	VN	DC 3V	
	VH	N/A	

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature



Page 11 of 49

5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB to TTL	USB	5cm Length	/
2	USB	USB	USB	100cm Length	/

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

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

SETUP DIAGRAM FOR TESTS





Page 12 of 49

5.10. MEASURING INSTRUMENT AND SOFTWARE USED

	3.10. IVIL	ASUKING II						<u>JLD</u>	
		Cor	nducted		SIUIIS	(mstrui	, ,		
Used	Equipment	Manufacturer	Model	No.		al No.	Upper Last Cal.	Last Cal.	Next Cal.
$\overline{\checkmark}$	EMI Test Receiver	R&S	ESR	₹3	12	6700	2022-11-26	2023-11-25	2024-11-24
\checkmark	Two-Line V-Network	R&S	ENV2	216	12	6701	2022-11-26	2023-11-25	2024-11-24
V	Artificial Mains Networks	R&S	ENY	81	120	6712	2022-09-27	2023-09-26	2024-09-25
Used	Used Description			Ма	nufac	turer	Name	Version	
$\overline{\checkmark}$	Test Software for 0	Conducted distur	bance		R&S		EMC32	Ver. 9.25	
		Ra	diated E	Emissi	ions (Instrum	ent)		
Used	Equipment	Manufacturer	Model	No.	Seri	al No.	Upper Last Cal.	Last Cal.	Next Cal.
$\overline{\checkmark}$	EMI test receiver	R&S	ESR	27	22	2993	2022-05-20	2023-04-08	2024-04-07
$\overline{\checkmark}$	EMI test receiver	R&S	ESR:	26	12	6703	2022-11-26	2023-11-25	2024-11-24
$\overline{\checkmark}$	Spectrum Analyzer	R&S	FSV3	044	22	2992	2022-05-20	2023-04-08	2024-04-07
\square	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB ⁻	1513	15	5456	2018-06-04	2021-06-03	2024-06-02
	Receiver Antenna (30MHz-1GHz)	SunAR RF Motion	JB ²	1	17	7821	2019-01-28	2022-01-18	2025-01-17
	Receiver Antenna (1GHz-18GHz)	R&S	HF90	07	120	6705	2019-01-27	2022-02-28	2025-02-27
	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHAS	9170	120	6706	2019-02-29	2022-02-28	2025-02-27
	Pre-amplification (To 18GHz)	Tonscned	TAP010	18050	22	4539	2022-10-11	2023-10-10	2024-10-09
\checkmark	Pre-amplification (To 18GHz)	R&S	SCU-	18D	13	4667	2022-11-26	2023-11-25	2024-11-24
	Pre-amplification (To 26.5GHz)	R&S	SCU-2	26D	13	5391	2022-11-26	2023-11-25	2024-11-24
\checkmark	Band Reject Filter	Wainwright	WRCG 2375-2 2485-2 40S	2400- 2510- S		1	2022-12-19	2023-12-18	2024-12-17
	High Pass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS			2	2022-12-19	2023-12-18	2024-12-17
	Software								
Used	Desci	Description Manufa			turer		Name	Version	
V	Test Software for R	adiated disturbar	rbance Tonsce		nd		TS+	Ver. 2.5	
Other instruments									
Used	Equipment	Manufacturer	Model No.		Seri	al No.	Upper Last Cal.	Last Cal.	Next Cal.
\square	Spectrum Analyzer	Keysight	N901	0B	15	5368	2022-05-20	2023-04-08	2024-04-07
	Power Meter	MWT	MW100-	RFCB	22	1694	2022-05-23	2023-04-08	2024-04-07
\square	Attenuator	PASTERNACK	PE708	37-6	10	624	2022-05-23	2023-04-08	2024-04-07



Page 13 of 49

6. ANTENNA PORT TEST RESULTS 6.1. ON TIME AND DUTY CYCLE

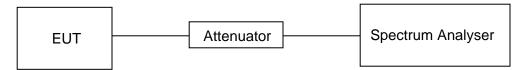
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP





Page 14 of 49

TEST ENVIRONMENT

Temperature	20°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3V

RESULTS

On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
0.740	0.980	0.7551	75.51%	1.22	1.35	2

Note:

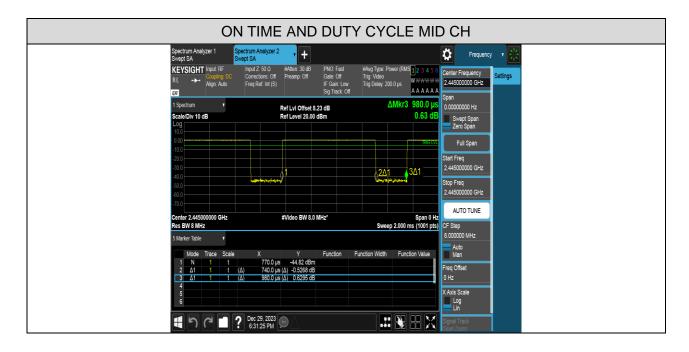
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW which is used for above 1GHz average measurement is not available on the analyzer then the next higher value should be used.

TEST GRAPHS



Page 15 of 49

6.2. 20 dB BANDWIDTH

LIMITS

FCC Part15 (15.249), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)		
CFR 47 FCC §15.215 (c)	20 dB Bandwidth	For reporting purposes only	2400-2483.5		

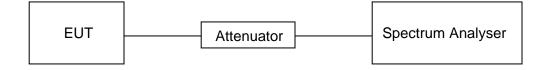
TEST PROCEDURE

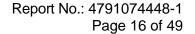
Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1 % to 5 % of the 20 dB bandwidth
VBW	Approximately 3×RBW
Span	Approximately 1.5 to 5 times the OBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB / 99 % relative to the maximum level measured in the fundamental emission.

TEST SETUP



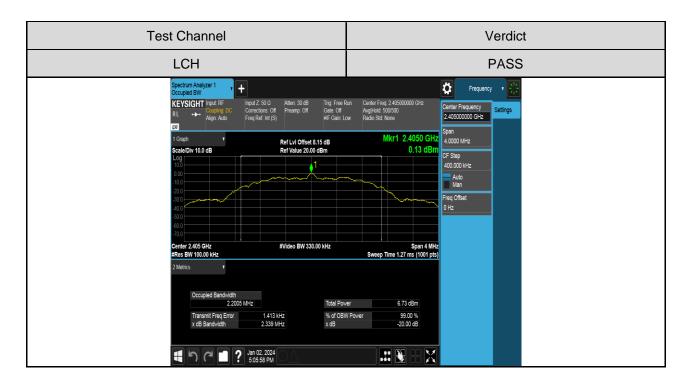




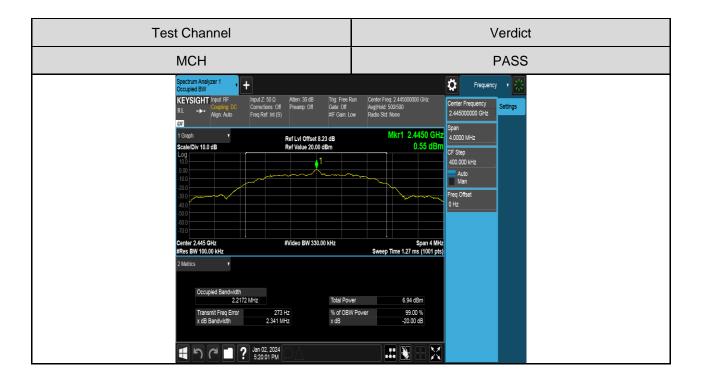
RESULTS

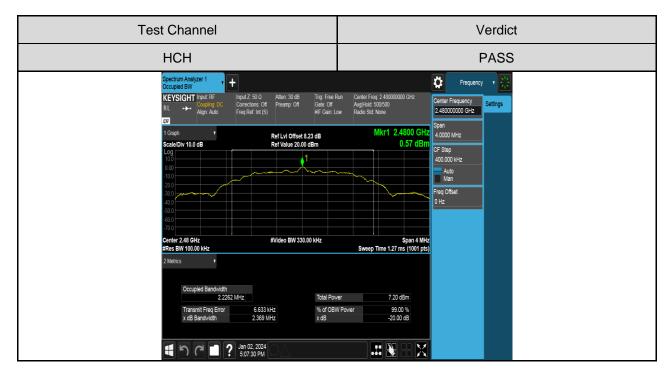
Channel	20dB bandwidth (MHz)	Result
Low	2.339	Pass
Middle	2.341	Pass
High	2.369	Pass

TEST GRAPHS











Page 18 of 49

7. RADIATED TEST RESULTS 7.1. LIMITS AND PROCEDURE

LIMITS

CFR 47 FCC §15.205 and §15.209 CFR 47 FCC §15.249 (a)(d)(c)(e)

The field strength of emissions from intentional radiators operated within these frequency bands					
Frequency (MHz)					
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3		

Emissions radiated outside of the specified frequency bands					
Frequency Range					
(MHz)	(uV/m) at 3 m	,			
30 - 88	100				
30 - 88	100	40			
88 - 216	150	43.5			
216 - 960	200	46			
Above 960	500	54			
Above 1000	500	Peak Average			
Above 1000	ove 1000 500		54		

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



Page 19 of 49

FCC Restricted bands of operation:

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.

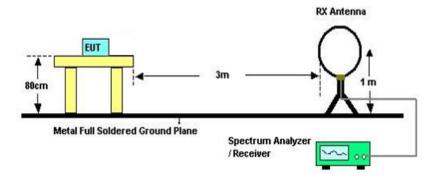
²Above 38.6c



Page 20 of 49

TEST SETUP AND PROCEDURE

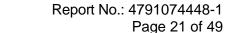
Below 30MHz



The setting of the spectrum analyser

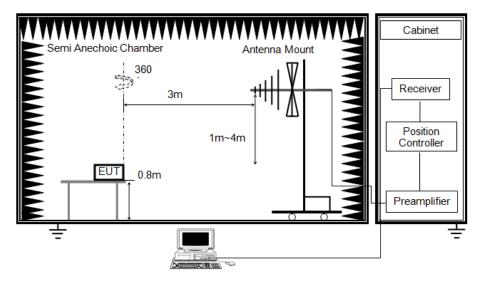
RBW	200Hz (From 9kHz to 0.15MHz) / 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz) / 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/Average
Trace	Max hold

- 1. The testing follows the guidelines in ANSI C63.10-2013
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)





Below 1G



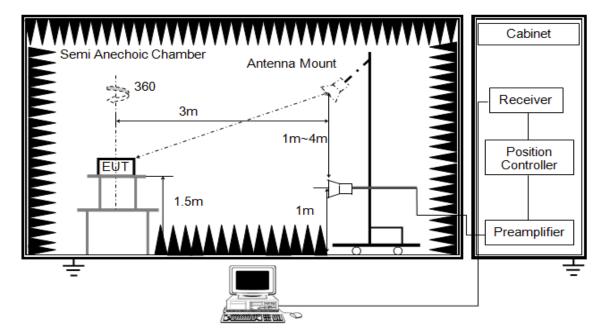
The setting of the spectrum analyser

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

- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)



Above 1G



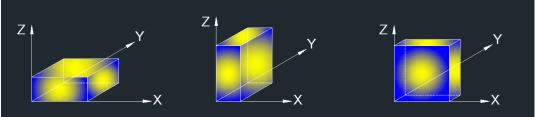
The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3MHz
	AVG: See note6
Sweep	Auto
Detector	Peak
Trace	Max hold

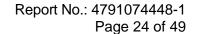
- 1. The testing follows the guidelines in ANSI C63.10-2013.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5m 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 1GHz, 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 2kHz video bandwidth listed in section 6.1 when using peak detector, max hold to run for at least [50*(1/Duty Cycle)] traces for average measurements. For the Duty Cycle need to refer the results in section 6.1.
- 7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)



X axis, Y axis, Z axis positions:



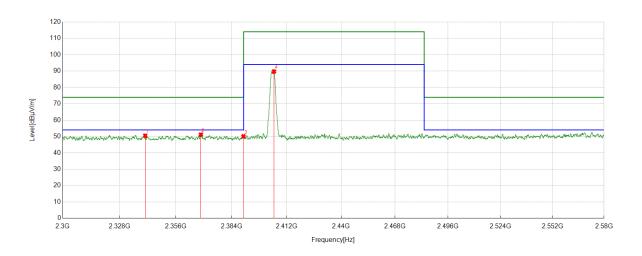
Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.





7.2. RESTRICTED BANDEDGE AND FIELD STRENGTH OF INTENTIONAL EMISSIONS

Channel	Polarization	Verdict	
LCH	Horizontal	PASS	



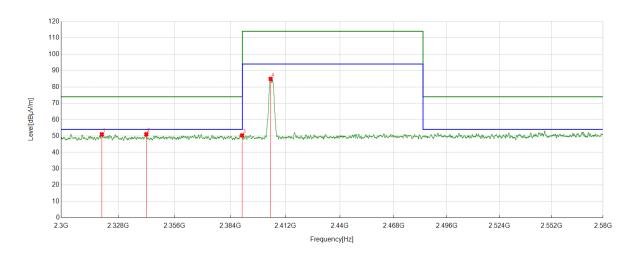
PK Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2340.7101	37.08	13.45	50.53	74.00	-23.47	Horizontal
2	2368.5036	37.63	13.53	51.16	74.00	-22.84	Horizontal
3	2390.0000	36.68	13.48	50.16	74.00	-23.84	Horizontal
4	2405.5382	76.04	13.75	89.79	114.00	-24.21	Horizontal

- 2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
LCH	Vertical	PASS

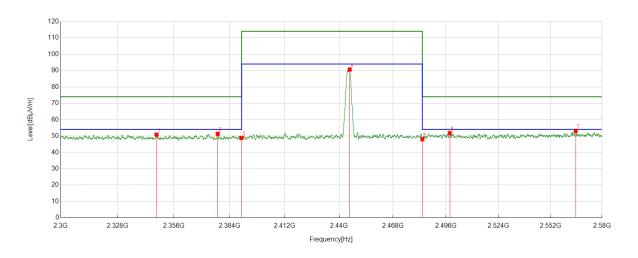


1 11 1100	· G						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2319.9525	37.48	13.54	51.02	74.00	-22.98	Vertical
2	2341.9352	37.65	13.46	51.11	74.00	-22.89	Vertical
3	2390.0000	36.90	13.48	50.38	74.00	-23.62	Vertical
4	2404.4881	71.19	13.73	84.92	114.00	-29.08	Vertical

- 2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
MCH	Horizontal	PASS

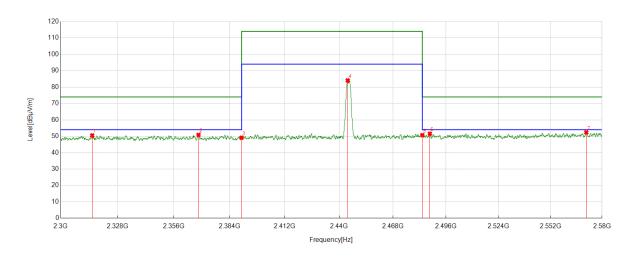


1 11 1103	· uiti						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2347.3259	37.33	13.51	50.84	74.00	-23.16	Horizontal
2	2377.9897	37.76	13.59	51.35	74.00	-22.65	Horizontal
3	2390.0000	35.35	13.48	48.83	74.00	-25.17	Horizontal
4	2445.5132	76.71	13.98	90.69	114.00	-23.31	Horizontal
5	2483.5000	33.80	14.25	48.05	74.00	-25.95	Horizontal
6	2498.0198	37.52	14.30	51.82	74.00	-22.18	Horizontal
7	2565.6482	38.50	14.60	53.10	74.00	-20.90	Horizontal

- 2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 3. Measurement = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Loss (Cable + Attenuator) Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
MCH	Vertical	PASS

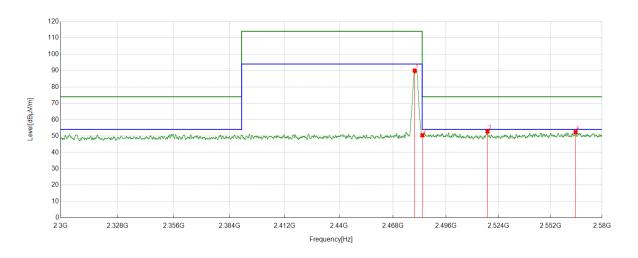


LIV IVES	ouit.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2315.5069	37.04	13.48	50.52	74.00	-23.48	Vertical
2	2368.3285	37.31	13.53	50.84	74.00	-23.16	Vertical
3	2390.0000	35.62	13.48	49.10	74.00	-24.90	Vertical
4	2444.4981	70.11	13.97	84.08	114.00	-29.92	Vertical
5	2483.5000	36.43	14.25	50.68	74.00	-23.32	Vertical
6	2487.4484	37.27	14.32	51.59	74.00	-22.41	Vertical
7	2571.3889	37.67	14.69	52.36	74.00	-21.64	Vertical

- 2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
HCH	Horizontal	PASS

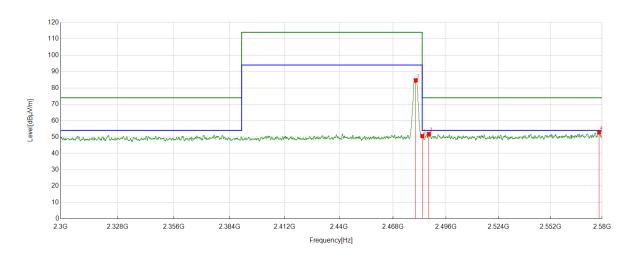


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2479.4674	75.77	14.19	89.96	114.00	-24.04	Horizontal
2	2483.5000	36.24	14.25	50.49	74.00	-23.51	Horizontal
3	2518.0423	38.30	14.53	52.83	74.00	-21.17	Horizontal
4	2565.5782	37.82	14.60	52.42	74.00	-21.58	Horizontal

- 2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
HCH	Vertical	PASS



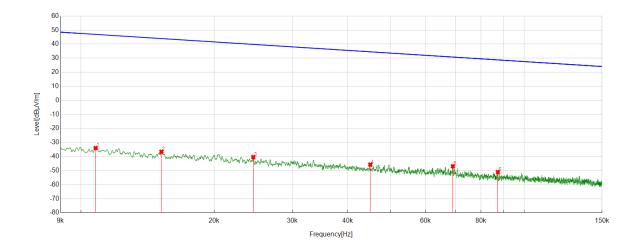
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	2480.0275	70.53	14.19	84.72	114.00	-29.28	Vertical
2	2483.5000	36.38	14.25	50.63	74.00	-23.37	Vertical
3	2486.9584	37.63	14.31	51.94	74.00	-22.06	Vertical
4	2578.3898	38.08	14.75	52.83	74.00	-21.17	Vertical

- 2. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Attenuator) – Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



7.3. SPURIOUS EMISSIONS BELOW 30M

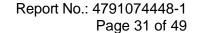
Channel	Frequency Range	Verdict
LCH	9kHz~150kHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.0108	28.04	-61.99	-33.95	46.95	-80.90	Peak
2	0.0152	25.38	-61.95	-36.57	43.95	-80.52	Peak
3	0.0245	21.44	-61.86	-40.42	39.82	-80.24	Peak
4	0.045	16.02	-61.80	-45.78	34.54	-80.32	Peak
5	0.0691	14.95	-61.87	-46.92	30.81	-77.73	Peak
6	0.0873	10.85	-61.91	-51.06	28.79	-79.85	Peak

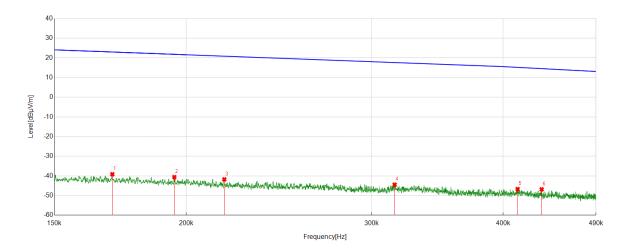
Note: 1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.





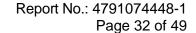
Channel	Frequency Range	Verdict
LCH	150kHz ~ 490kHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.1702	22.79	-61.96	-39.17	22.99	-62.16	Peak
2	0.1949	21.34	-61.97	-40.63	21.81	-62.44	Peak
3	0.2174	20.21	-61.98	-41.77	20.86	-62.63	Peak
4	0.3155	17.56	-62.02	-44.46	17.62	-62.08	Peak
5	0.4128	15.34	-62.04	-46.70	15.18	-61.88	Peak
6	0.4351	15.21	-62.05	-46.84	14.53	-61.37	Peak

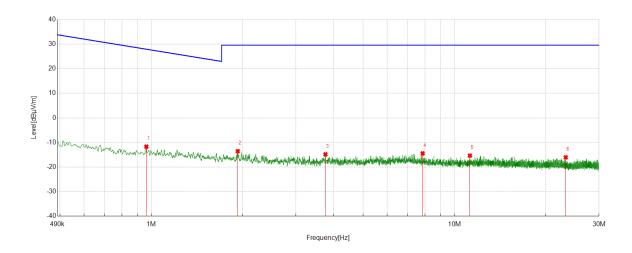
Note: 1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.





Channe	el Fre	quency Range	Verdict
LCH	490	kHz ~ 30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	0.9622	10.37	-22.07	-11.70	27.94	-39.64	Peak
2	1.9273	8.47	-22.02	-13.55	29.54	-43.09	Peak
3	3.7512	7.15	-21.96	-14.81	29.54	-44.35	Peak
4	7.8535	7.46	-21.90	-14.44	29.54	-43.98	Peak
5	11.2475	6.49	-21.83	-15.34	29.54	-44.88	Peak
6	23.2888	5.69	-21.73	-16.04	29.54	-45.58	Peak

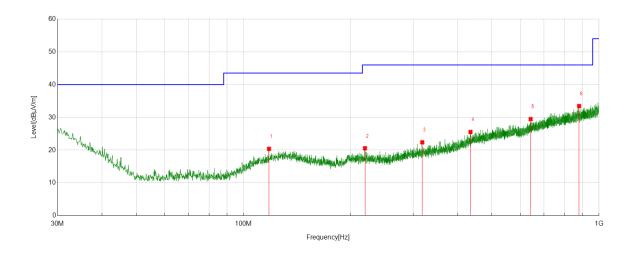
Note: 1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable) + Distance Factor.

- 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
- 3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



7.4. SPURIOUS EMISSIONS 30MHz ~ 1GHz

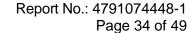
Channel	Polarization	Verdict		
LCH	Horizontal	PASS		



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	117.9878	0.34	20.07	20.41	43.50	-23.09	Horizontal
2	219.654	1.12	19.48	20.60	46.00	-25.40	Horizontal
3	318.3128	1.02	21.38	22.40	46.00	-23.60	Horizontal
4	435.0155	1.05	24.50	25.55	46.00	-20.45	Horizontal
5	642.3252	1.44	28.04	29.48	46.00	-16.52	Horizontal
6	878.9319	2.36	31.10	33.46	46.00	-12.54	Horizontal

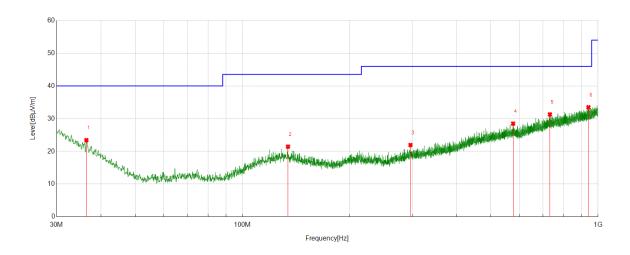
Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

- 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable).
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





Channel	Polarization	Verdict	
LCH	Vertical	PASS	



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	36.4026	0.25	23.18	23.43	40.00	-16.57	Vertical
2	134.2854	0.80	20.66	21.46	43.50	-22.04	Vertical
3	296.8737	1.08	20.87	21.95	46.00	-24.05	Vertical
4	576.9407	1.81	26.68	28.49	46.00	-17.51	Vertical
5	732.2532	1.92	29.39	31.31	46.00	-14.69	Vertical
6	939.66	1.85	31.62	33.47	46.00	-12.53	Vertical

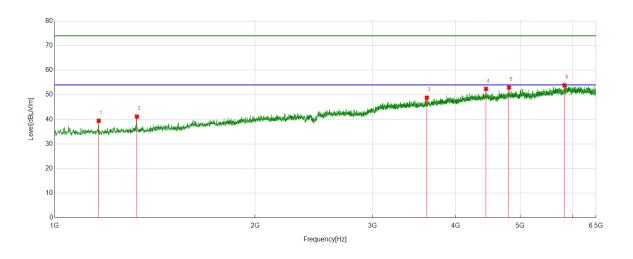
Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

- 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable).
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



7.5. SPURIOUS EMISSIONS 1GHz ~ 6.5GHz

Channel	Polarization	Verdict
LCH	Horizontal	PASS



PK Result:

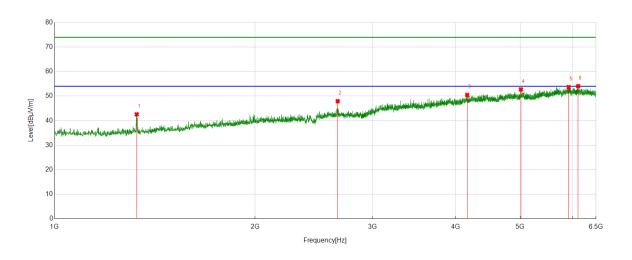
	1 K Roodit.							
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark	
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]		
1	1165.0206	41.24	-1.83	39.41	74.00	-34.59	Horizontal	
2	1329.3537	42.23	-1.08	41.15	74.00	-32.85	Horizontal	
3	3621.7652	37.86	10.98	48.84	74.00	-25.16	Horizontal	
4	4443.4304	37.84	14.57	52.41	74.00	-21.59	Horizontal	
5	4810.6013	37.68	15.29	52.97	74.00	-21.03	Horizontal	
6	5828.2285	35.18	18.69	53.87	74.00	-20.13	Horizontal	

Note: 1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
LCH	Vertical	PASS



T N NC3dit.							
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1328.6661	43.68	-1.09	42.59	74.00	-31.41	Vertical
2	2661.2077	41.86	6.05	47.91	74.00	-26.09	Vertical
3	4163.5829	37.11	13.37	50.48	74.00	-23.52	Vertical
4	5013.4392	37.31	15.42	52.73	74.00	-21.27	Vertical
5	5912.8016	35.36	18.33	53.69	74.00	-20.31	Vertical
6	6109.4512	36.08	17.97	54.05	74.00	-19.95	Vertical

AV Result:

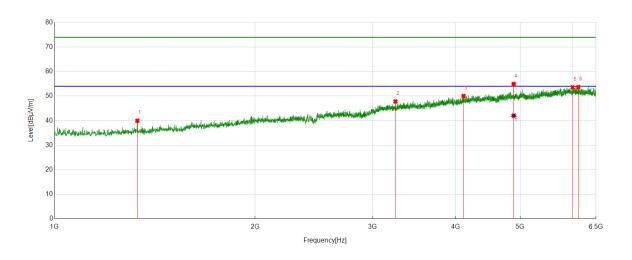
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	6109.4512	24.81	17.97	42.78	54.00	-11.22	Vertical

Note: 1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
MCH	Horizontal	PASS



111100	1 K Kesuit.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1331.4164	41.07	-1.09	39.98	74.00	-34.02	Horizontal
2	3249.0936	38.46	9.39	47.85	74.00	-26.15	Horizontal
3	4111.3264	36.89	13.18	50.07	74.00	-23.93	Horizontal
4	4890.3613	39.85	15.08	54.93	74.00	-19.07	Horizontal
5	5993.9367	35.31	18.29	53.60	74.00	-20.40	Horizontal
6	6112.2015	35.68	18.02	53.70	74.00	-20.30	Horizontal

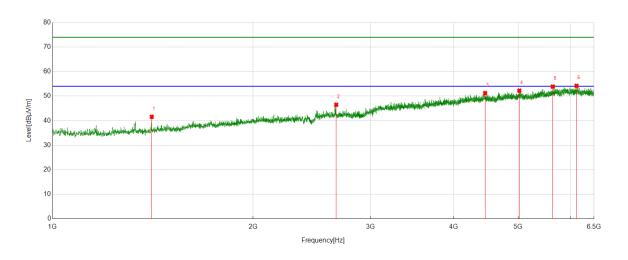
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4890.3613	26.96	15.08	42.04	54.00	-11.96	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
MCH	Vertical	PASS



1111100	1 it it coult.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1409.1136	42.89	-1.32	41.57	74.00	-32.43	Vertical
2	2666.0208	40.34	6.14	46.48	74.00	-27.52	Vertical
3	4461.3077	36.35	14.89	51.24	74.00	-22.76	Vertical
4	5020.315	36.72	15.51	52.23	74.00	-21.77	Vertical
5	5636.392	36.26	17.61	53.87	74.00	-20.13	Vertical
6	6119.0774	35.96	18.23	54.19	74.00	-19.81	Vertical

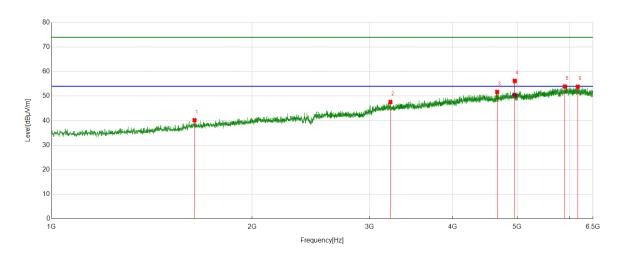
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	6119.0774	25.31	18.23	43.54	54.00	10.46	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
HCH	Horizontal	PASS



1 11 1100	1 K Kesait.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1639.4549	39.48	0.71	40.19	74.00	-33.81	Horizontal
2	3226.4033	38.39	9.22	47.61	74.00	-26.39	Horizontal
3	4666.2083	36.86	14.86	51.72	74.00	-22.28	Horizontal
4	4959.8075	40.70	15.51	56.21	74.00	-17.79	Horizontal
5	5897.6747	35.96	17.95	53.91	74.00	-20.09	Horizontal
6	6166.5208	35.19	18.63	53.82	74.00	-20.18	Horizontal

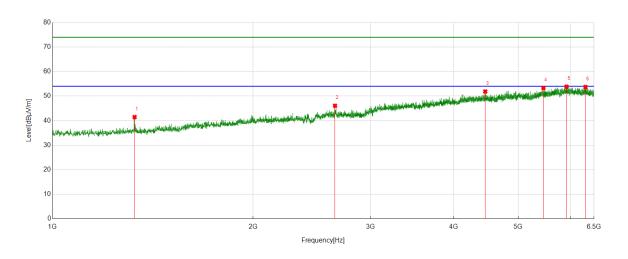
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	4959.8075	34.92	15.51	50.43	54.00	-3.57	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

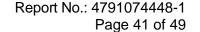


Channel	Polarization	Verdict
HCH	Vertical	PASS



111100	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	1327.9785	42.56	-1.10	41.46	74.00	-32.54	Vertical
2	2655.0194	39.84	6.24	46.08	74.00	-27.92	Vertical
3	4462.6828	37.06	14.82	51.88	74.00	-22.12	Vertical
4	5456.9321	36.03	17.28	53.31	74.00	-20.69	Vertical
5	5910.7388	35.63	18.22	53.85	74.00	-20.15	Vertical
6	6308.8511	34.94	18.79	53.73	74.00	-20.27	Vertical

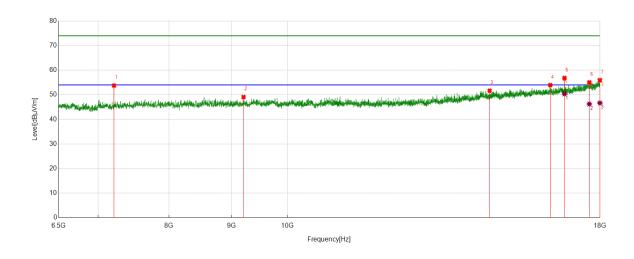
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 4. Peak: Peak detector.
- 5. For below 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





7.6. SPURIOUS EMISSIONS 6.5GHz ~ 18GHz

Channel	Polarization	Verdict
LCH	Horizontal	PASS



PK Result:

111100	•						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7214.5268	50.07	3.70	53.77	74.00	-20.23	Horizontal
2	9205.7132	43.05	6.03	49.08	74.00	-24.92	Horizontal
3	14624.328	38.86	12.81	51.67	74.00	-22.33	Horizontal
4	16391.2364	38.95	14.99	53.94	74.00	-20.06	Horizontal
5	16835.4794	40.48	16.36	56.84	74.00	-17.16	Horizontal
6	17640.5801	37.04	18.00	55.04	74.00	-18.96	Horizontal
7	17994.2493	36.18	19.77	55.95	74.00	-18.05	Horizontal

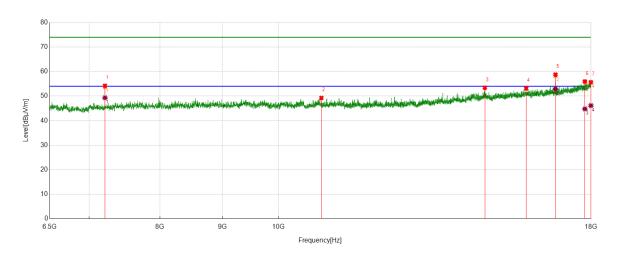
AV Result:

,							
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	16835.4794	34.00	16.36	50.36	54.00	-3.64	Horizontal
2	17640.5801	28.25	18.00	46.25	54.00	-7.75	Horizontal
3	17994.2493	26.90	19.77	46.67	54.00	-7.33	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
LCH	Vertical	PASS



1 11 1103							
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7214.5268	50.51	3.70	54.21	74.00	-19.79	Vertical
2	10838.9174	42.23	7.04	49.27	74.00	-24.73	Vertical
3	14740.7801	40.52	12.90	53.42	74.00	-20.58	Vertical
4	15934.0543	38.55	14.59	53.14	74.00	-20.86	Vertical
5	16835.4794	42.41	16.36	58.77	74.00	-15.23	Vertical
6	17792.9741	37.21	18.75	55.96	74.00	-18.04	Vertical
7	17994.2493	35.90	19.77	55.67	74.00	-18.33	Vertical

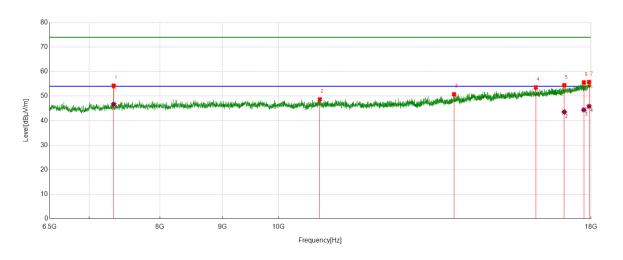
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7214.5268	45.62	3.70	49.32	54.00	-4.68	Vertical
2	16835.4794	36.60	16.36	52.96	54.00	-1.04	Vertical
3	17792.9741	26.04	18.75	44.79	54.00	-9.21	Vertical
4	17994.2493	26.36	19.77	46.13	54.00	-7.87	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
MCH	Horizontal	PASS



11000	ouit.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7333.8542	50.33	3.92	54.25	74.00	-19.75	Horizontal
2	10807.2884	41.77	6.93	48.70	74.00	-25.30	Horizontal
3	13909.8012	39.39	11.38	50.77	74.00	-23.23	Horizontal
4	16224.4656	38.15	15.40	53.55	74.00	-20.45	Horizontal
5	17115.827	38.06	16.40	54.46	74.00	-19.54	Horizontal
6	17758.4698	37.13	18.51	55.64	74.00	-18.36	Horizontal
7	17936.7421	36.38	19.42	55.80	74.00	-18.20	Horizontal

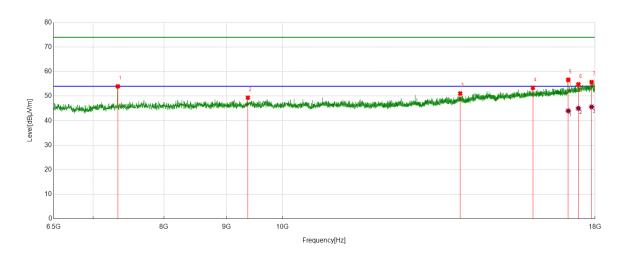
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7333.8542	42.77	3.92	46.69	54.00	-7.31	Horizontal
2	17115.8270	27.13	16.40	43.53	54.00	-10.47	Horizontal
3	17758.4698	25.89	18.51	44.40	54.00	-9.60	Horizontal
4	17936.7421	26.41	19.42	45.83	54.00	-8.17	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
MCH	Vertical	PASS



1 11 1100	J G 1 C 1						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7335.2919	50.04	3.94	53.98	74.00	-20.02	Vertical
2	9368.1710	42.89	6.49	49.38	74.00	-24.62	Vertical
3	13968.7461	39.60	11.50	51.10	74.00	-22.90	Vertical
4	16013.1266	38.86	14.53	53.39	74.00	-20.61	Vertical
5	17115.8270	40.27	16.40	56.67	74.00	-17.33	Vertical
6	17445.0556	37.21	17.56	54.77	74.00	-19.23	Vertical
7	17884.9856	36.45	19.24	55.69	74.00	-18.31	Vertical

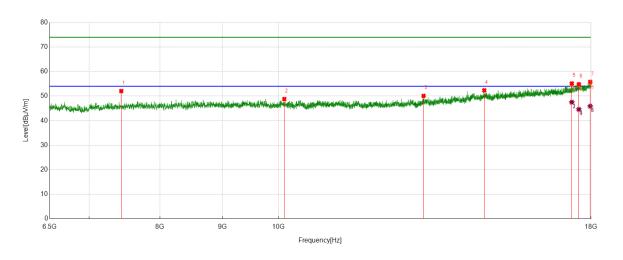
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17115.8270	27.58	16.40	43.98	54.00	-10.02	Vertical
2	17445.0556	27.45	17.56	45.01	54.00	-8.99	Vertical
3	17884.9856	26.36	19.24	45.60	54.00	-8.40	Vertical

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
HCH	Horizontal	PASS



111100	1 K Kesuit.							
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark	
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]		
1	7438.8049	47.88	4.21	52.09	74.00	-21.91	Horizontal	
2	10108.5761	42.16	6.65	48.81	74.00	-25.19	Horizontal	
3	13136.3295	40.47	9.63	50.10	74.00	-23.90	Horizontal	
4	14724.9656	39.56	12.81	52.37	74.00	-21.63	Horizontal	
5	17360.2325	37.88	17.28	55.16	74.00	-18.84	Horizontal	
6	17591.6990	36.80	18.04	54.84	74.00	-19.16	Horizontal	
7	17972.6841	36.12	19.68	55.80	74.00	-18.20	Horizontal	

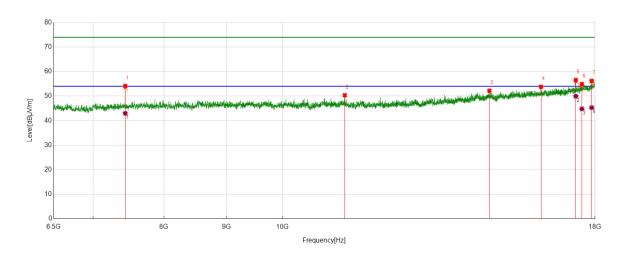
AV Result:

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	17360.2325	30.06	17.28	47.34	54.00	-6.66	Horizontal
2	17591.6990	26.55	18.04	44.59	54.00	-9.41	Horizontal
3	17972.6841	26.21	19.68	45.89	54.00	-8.11	Horizontal

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
- 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
- 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
HCH	Vertical	PASS



1 11 110	Juit.						
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7438.8049	49.90	4.21	54.11	74.00	-19.89	Vertical
2	11242.9054	43.15	7.21	50.36	74.00	-23.64	Vertical
3	14755.1569	39.30	12.91	52.21	74.00	-21.79	Vertical
4	16260.4076	38.74	15.07	53.81	74.00	-20.19	Vertical
5	17360.2325	39.28	17.28	56.56	74.00	-17.44	Vertical
6	17560.0700	37.15	17.78	54.93	74.00	-19.07	Vertical
7	17886.4233	36.95	19.26	56.21	74.00	-17.79	Vertical

AV Result:

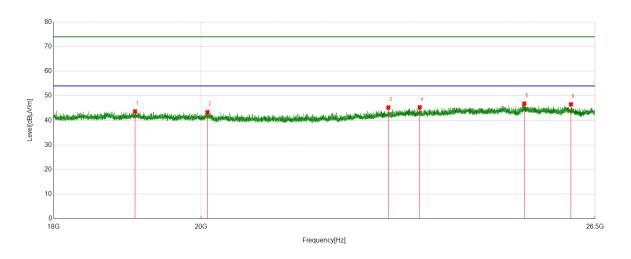
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	7438.8049	38.78	4.21	42.99	54.00	-11.01	Vertical
2	17360.2325	32.68	17.28	49.96	54.00	-4.04	Vertical
3	17560.0700	27.03	17.78	44.81	54.00	-9.19	Vertical
4	17886.4233	26.04	19.26	45.30	54.00	-8.70	Vertical

- Note: 1. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable + Filter) – Amplifier Gain.
 - 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 - 3. Peak detector: RBW: 1 MHz, VBW: 3 MHz.
 - 4. Average detector: RBW: 1 MHz, VBW: 1/T MHz(refer to clause 6.1.).
 - 5. For above 3GHz part, filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for HPF losses.
 - 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



7.7. SPURIOUS EMISSIONS 18GHz ~26GHz

Channel	Polarization	Verdict
LCH	Horizontal	PASS



PK Result:

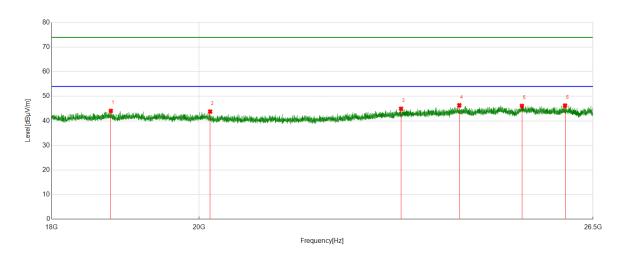
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	
1	19078.7579	49.61	-5.95	43.66	74.00	-30.34	Horizontal
2	20092.0592	48.49	-5.15	43.34	74.00	-30.66	Horizontal
3	22863.3363	49.05	-3.81	45.24	74.00	-28.76	Horizontal
4	23381.0381	48.57	-3.24	45.33	74.00	-28.67	Horizontal
5	25194.2694	50.24	-3.41	46.83	74.00	-27.17	Horizontal
6	26047.7548	49.15	-2.62	46.53	74.00	-27.47	Horizontal

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- Measurement = Reading Level + Correct Factor,
 Correct Factor = Antenna Factor + Loss (Cable) Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Channel	Polarization	Verdict
LCH	Vertical	PASS



	1 K Koodit.							
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark	
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]		
1	18778.6779	50.27	-6.20	44.07	74.00	-29.93	Vertical	
2	20159.2159	49.04	-5.25	43.79	74.00	-30.21	Vertical	
3	23103.9104	48.41	-3.47	44.94	74.00	-29.06	Vertical	
4	24085.7586	49.04	-2.69	46.35	74.00	-27.65	Vertical	
5	25187.4687	49.50	-3.42	46.08	74.00	-27.92	Vertical	
6	25975.4976	48.94	-2.70	46.24	74.00	-27.76	Vertical	

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

- 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
- 3. Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Loss (Cable) – Amplifier Gain.
- 4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



Report No.: 4791074448-1

Page 49 of 49

8. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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

ANTENNA CONNECTOR

EUT has an Internal antenna without antenna connector.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

END OF REPORT