



FCC Radio Test Report

FCC ID: KA2CS8526LHA1

This report concerns: Original Grant

Project No. : 2001H011

Equipment: Full HD Pan & Tilt Pro Wi-Fi Camera

Brand Name : D-LINK
Test Model : DCS-8526LH

Series Model : N/A

Applicant: D-Link Corporation

Address : No.289, Sinhu 3rd Rd, Neihu District, Taipei 114, Taiwan, R.O.C

Manufacturer : D-Link Corporation

Address : No.289,Sinhu 3rd Rd, Neihu District, Taipei 114, Taiwan, R.O.C

Factory: LEEDARSON LIGHTING CO., LTD.

Address : Xingtai Industrial Zone, Economic Development Zone, Changtai

County, Zhangzhou City, Fujian Province, P.R.China

Date of Receipt : Feb. 10, 2020

Date of Test : Feb. 18, 2020 ~ Mar. 23, 2020

Issued Date : Mar. 26, 2020

Report Version : R00

Test Sample : Engineering Sample No.: SH2020012230-1

Standard(s) : FCC Part15, Subpart C (15.247)

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Approved by: Ryan Wang

INC. MRA ACCREDITED

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 26, 2020



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

	FCC Part15, Subpart C (15.247)			
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	Radiated Emissions APPENDIX B APPENDIX C		
15.247(a)(2)	Bandwidth	APPENDIX D	PASS	
15.247(b)(3)	Maximum Output Power	APPENDIX E	PASS	
15.247(d)	Conducted Spurious Emission	APPENDIX F	PASS	
15.247(e)	Power Spectral Density	APPENDIX G	PASS	
15.203	Antenna Requirement		PASS	Note (2)

Note:

- (1) "N/A" denotes test is not applicable to this device.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China

BTL's Test Firm Registration Number for FCC: 476765

BTL's Designation Number for FCC: CN1241

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.70

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	Н	3.76
		200 MHz~1,000 MHz	V	4.24
SH-CB01	CISPR	200 MHz~1,000 MHz	Н	3.84
SH-CBUI	CISPR	1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	Н	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	Н	3.95

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	22°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-30 MHz to 1GHz	22°C	58%	AC 120V/60Hz	Forest Li
Radiated Emissions-Above 1000 MHz	22°C	58%	AC 120V/60Hz	Forest Li
Bandwidth	23°C	59%	AC 120V/60Hz	Forest Li
Maximum Output Power	23°C	59%	AC 120V/60Hz	Forest Li
Conducted Spurious Emission	23°C	59%	AC 120V/60Hz	Forest Li
Power Spectral Density	23°C	59%	AC 120V/60Hz	Forest Li



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Full HD Pan & Tilt Pro Wi-Fi Camera
Brand Name	D-LINK
Test Model	DCS-8526LH
Series Model	N/A
Model Difference(s)	N/A
Hardware Version	A1
Software Version	1.00
Power Source	DC voltage supplied from AC/DC adapter. 1# Model: WB-10N05R 2# Model: KA1201A-0502000US
Power Rating	I/P: 100-240V ~50/60Hz, 0.4A Max. O/P: 5V === 2A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Bit Rate of Transmitter	1Mbps
Max. Output Power	3.59 dBm (0.0023 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	LEEDARSON	T2-IP-WB-B0-A0-01	IFA	N/A	1.51



2.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)
Mode 2	TX Mode Channel 00 _1Mbps

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test		
Final Test Mode	Description	
Mode 2	TX Mode Channel 00 _1Mbps	

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 2	TX Mode Channel 00 _1Mbps

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode NOTE (1)

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.

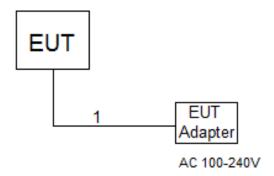
2.3 PARAMETERS OF TEST SOFTWARE

During testing channel & 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 power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software	SecureCRT		
Frequency (MHz)	2402	2440	2480
Parameters(1Mbps)	default	default	default



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 SUPPORT UNITS

Item	Equipment	Brand	Model/Type No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1m



3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Fraguency of Emission (MLIT)	Limit (dl	ΒμV)
Frequency of Emission (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.2 TEST PROCEDURE

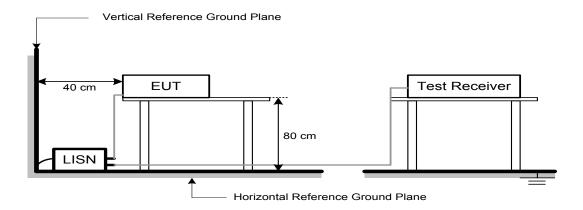
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 DEVIATION FROM TEST STANDARD

No deviation



3.4 TEST SETUP



3.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of <code>Note</code>. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.



4. RADIATED EMISSION TEST

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Fraguency (MHz)	(dBuV/m at 3 m)	
Frequency (MHz)	Peak	Average
Above 1000	74	54

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1 MHz VBW 3 MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector

4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

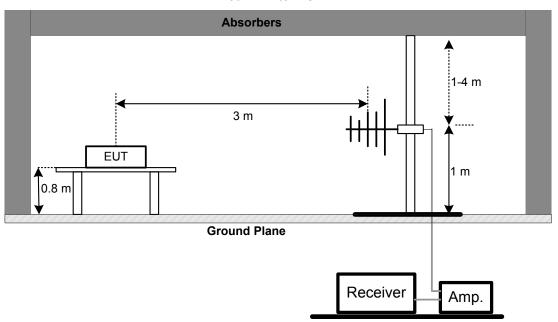
4.3 DEVIATION FROM TEST STANDARD

No deviation

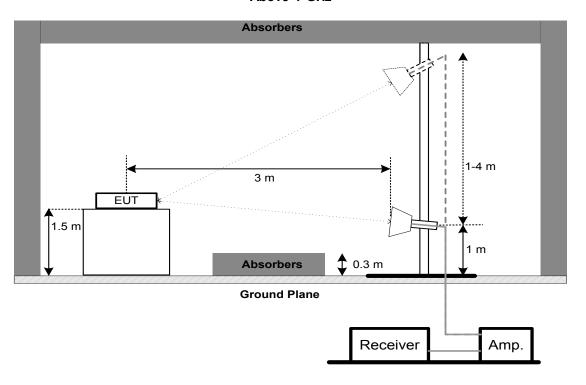


4.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz









5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart C (15.247)						
Section Test Item Limit						
15 247(a)(2)	Bandwidth	>= 500 kHz				
15.247(a)(2)	Danuwiutii	(6 dB bandwidth)				

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5 ms.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

Please refer to the APPENDIX D.



6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)						
Section	Section Test Item Limit					
15.247(b)(3) Maximum Output Power 1 watt or 30 dBm						

6.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.1.1 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the APPENDIX E..



7. CONDUCTED SPURIOUS EMISSION TEST

7.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = 10 ms.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.6 TEST RESULTS

Please refer to the APPENDIX F.



8. POWER SPECTRAL DENSITY TEST

8.1 LIMIT

FCC Part15, Subpart C (15.247)					
Section Test Item Limit					
15.247(e) Power Spectral Dens		8 dBm (in any 3 kHz)			

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=3 kHz, VBW=10 kHz, Sweep time = auto.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 TEST RESULTS

Please refer to the APPENDIX G.



9. MEASUREMENT INSTRUMENTS LIST

	AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 29, 2020		
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Sep. 01, 2020		
3	Test Cable	emci	EMCRG400-BM-N M-10000	170628	Apr. 17, 2020		
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 29, 2020		
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 29, 2020		
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 29, 2020		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

	Radiated Emissions - 30 MHz to 1 GHz							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 29, 2020			
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 29, 2020			
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 29, 2020			
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 17, 2020			
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 17, 2020			
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 17, 2020			
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			



	Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Mar. 29, 2020	
2	Pre-Amplifier	emci	EMC012645SE	980421	Mar. 29, 2020	
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 29, 2020	
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 17, 2020	
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 17, 2020	
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 17, 2020	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 29, 2020	
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 29, 2020	
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 29, 2020	
11	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 29, 2020	
12	Test Cable	emci	EMC102-KM-KM-8 00	170654	Apr. 17, 2020	
13	Test Cable	emci	Super Reliable-40G-SS11- 7000	W0030860001	Apr. 17, 2020	
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

	Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020		

Maximum Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 29, 2020	
2	Wideband Power Sensor	Keysight	N9123A	MY58310003	Mar. 29, 2020	

Antenna Conducted Spurious Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020	

	Power Spectral Density									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 29, 2020					

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.



10. EUT TEST PHOTO



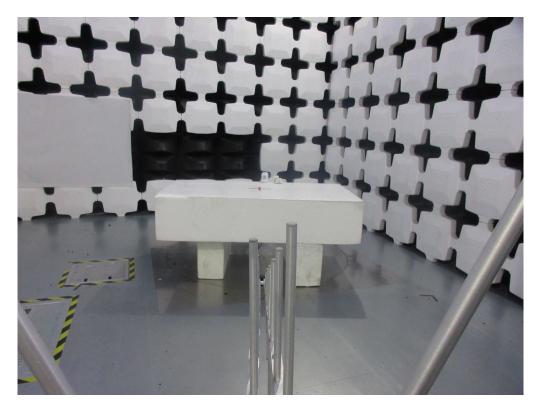






Radiated Emissions Test Photos

30 MHz to 1000 MHz



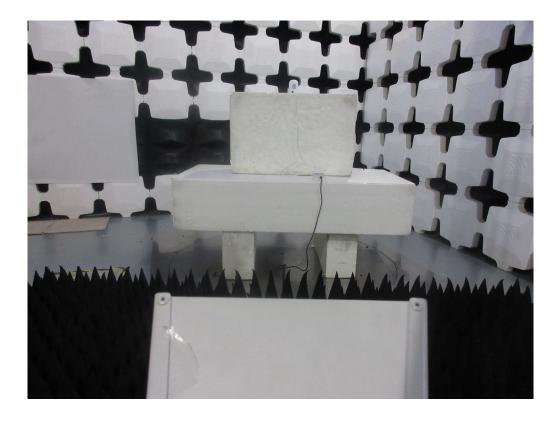




Radiated Emissions Test Photos

Above 1 GHz

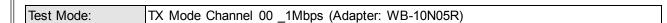






AF	PPENDIX A - AC F	POWER LINE	CONDUCTED	EMISSIONS



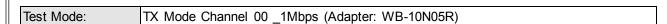


Line 80.0 dBuV 70 60 50 40 30 12 X 20 10 0.0 0.150 0.5 (MHz) 30.000

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1516	45.10	9.73	54.83	65.91	-11.08	QP	
2	0.1516	29.70	9.73	39.43	55.91	-16.48	AVG	
3	0.1680	43.00	9.74	52.74	65.06	-12.32	QP	
4	0.1680	28.70	9.74	38.44	55.06	-16.62	AVG	
5	0.5550	27.60	9.89	37.49	56.00	-18.51	QP	
6	0.5550	20.30	9.89	30.19	46.00	-15.81	AVG	
7	0.8520	17.90	9.79	27.69	56.00	-28.31	QP	
8	0.8520	7.60	9.79	17.39	46.00	-28.61	AVG	
9	3.6150	11.90	9.89	21.79	56.00	-34.21	QP	
10	3.6150	5.80	9.89	15.69	46.00	-30.31	AVG	
11	7.4490	21.80	10.10	31.90	60.00	-28.10	QP	
12	7.4490	9.10	10.10	19.20	50.00	-30.80	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



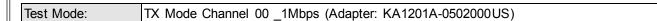


Neutral 80.0 dBuV 70 60 50 40 30 20 10 0.0 0.150 0.5 (MHz) 30.000

No. N	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.1548	43.00	9.61	52.61	65.74	-13.13	QP	
2		0.1548	27.90	9.61	37.51	55.74	-18.23	AVG	
3 '	*	0.1680	42.80	9.61	52.41	65.06	-12.65	QP	
4		0.1680	28.60	9.61	38.21	55.06	-16.85	AVG	
5		0.5550	24.60	9.70	34.30	56.00	-21.70	QP	
6		0.5550	16.80	9.70	26.50	46.00	-19.50	AVG	
7		0.8430	14.80	9.71	24.51	56.00	-31.49	QP	
8		0.8430	5.30	9.71	15.01	46.00	-30.99	AVG	
9		2.4495	13.00	9.81	22.81	56.00	-33.19	QP	
10		2.4495	4.00	9.81	13.81	46.00	-32.19	AVG	
11		7.4670	22.50	10.08	32.58	60.00	-27.42	QP	
12		7.4670	7.60	10.08	17.68	50.00	-32.32	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



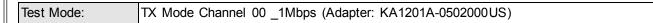


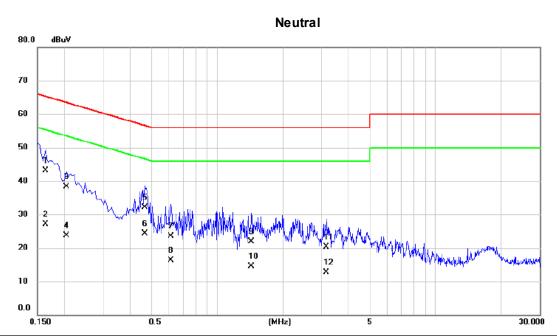
Line 80.0 dBuV 70 60 50 40 2 X 4 X 30 20 10 0.0 0.150 0.5 (MHz) 30.000

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1635	33.60	9.74	43.34	65.28	-21.94	QP	
2		0.1635	17.80	9.74	27.54	55.28	-27.74	AVG	
3		0.1860	30.30	9.77	40.07	64.21	-24.14	QP	
4		0.1860	15.70	9.77	25.47	54.21	-28.74	AVG	
5		0.4695	27.90	9.89	37.79	56.52	-18.73	QP	
6	*	0.4695	21.60	9.89	31.49	46.52	-15.03	AVG	
7		0.9105	17.40	9.77	27.17	56.00	-28.83	QP	
8		0.9105	8.10	9.77	17.87	46.00	-28.13	AVG	
9		1.3020	15.20	9.76	24.96	56.00	-31.04	QP	
10		1.3020	6.50	9.76	16.26	46.00	-29.74	AVG	
11		1.8420	13.90	9.79	23.69	56.00	-32.31	QP	
12		1.8420	6.30	9.79	16.09	46.00	-29.91	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.







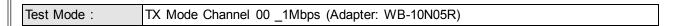
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1635	33.50	9.61	43.11	65.28	-22.17	QP	
2		0.1635	17.50	9.61	27.11	55.28	-28.17	AVG	
3		0.2040	28.60	9.63	38.23	63.45	-25.22	QP	
4		0.2040	14.10	9.63	23.73	53.45	-29.72	AVG	
5		0.4650	22.50	9.69	32.19	56.60	-24.41	QP	
6		0.4650	14.60	9.69	24.29	46.60	-22.31	AVG	
7		0.6134	13.70	9.71	23.41	56.00	-32.59	QP	
8		0.6134	6.50	9.71	16.21	46.00	-29.79	AVG	
9		1.4370	12.20	9.75	21.95	56.00	-34.05	QP	
10		1.4370	4.80	9.75	14.55	46.00	-31.45	AVG	
11		3.1650	10.50	9.86	20.36	56.00	-35.64	QP	
12		3.1650	2.80	9.86	12.66	46.00	-33.34	AVG	

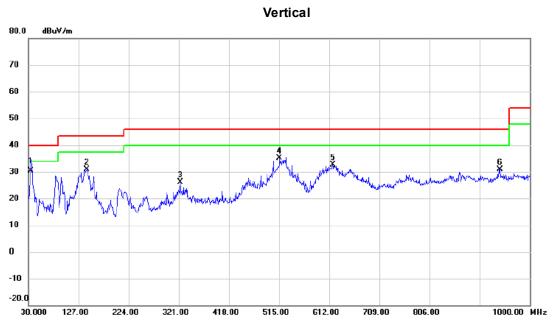
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 30 MHZ TO 1000 MHZ



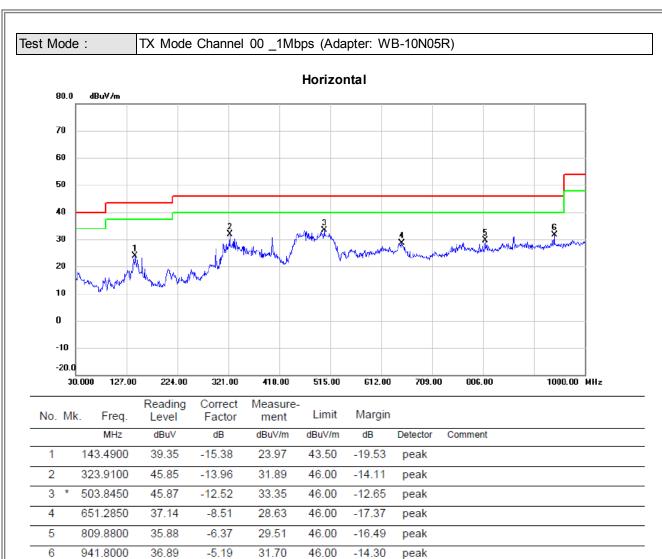




No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	34.8500	47.71	-17.26	30.45	40.00	-9.55	QP	
2		143.4900	46.26	-15.38	30.88	43.50	-12.62	peak	
3		323.9100	40.20	-13.96	26.24	46.00	-19.76	peak	
4		515.9700	47.19	-12.18	35.01	46.00	-10.99	peak	
5		619.2750	41.31	-8.60	32.71	46.00	-13.29	peak	
6		941.8000	36.00	-5.19	30.81	46.00	-15.19	peak	

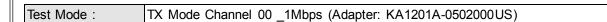
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

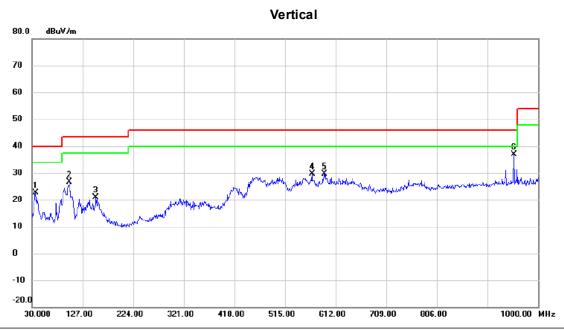




- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		36.7900	40.69	-18.08	22.61	40.00	-17.39	peak	
2		101.7800	48.06	-21.33	26.73	43.50	-16.77	peak	
3		152.7050	37.72	-16.92	20.80	43.50	-22.70	peak	
4		566.8950	41.57	-12.03	29.54	46.00	-16.46	peak	
5		590.1750	40.32	-10.81	29.51	46.00	-16.49	peak	
6	*	953.4400	43.36	-6.49	36.87	46.00	-9.13	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Test Mode: TX Mode Channel 00 _1Mbps (Adapter: KA1201A-0502000US)

Horizontal dBuV/m 80.0 70 50 40 30 20 10 0 -10 -20.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		100.8100	37.80	-21.49	16.31	43.50	-27.19	peak	
2		162.8900	33.57	-17.43	16.14	43.50	-27.36	peak	
3		315.6650	38.97	-16.20	22.77	46.00	-23.23	peak	
4		468.4400	49.71	-14.66	35.05	46.00	-10.95	peak	
5		588.7200	39.48	-10.88	28.60	46.00	-17.40	peak	
6	*	953.4400	42.77	-6.49	36.28	46.00	-9.72	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

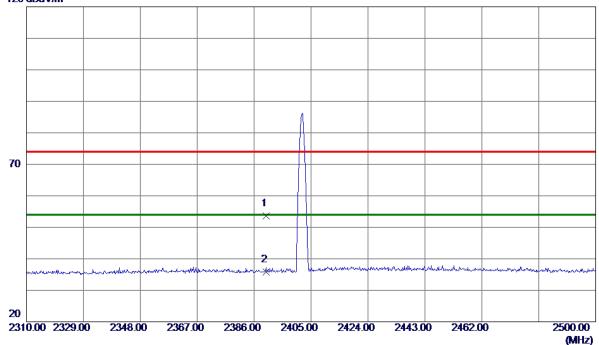


APPENDIX C - RADIATED EMISSION - ABOVE 1000 MHZ	



Vertical





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21. 15	32. 39	53. 54	74.00	-20. 46	Peak	
2 *	2390. 0000	3.46	32. 39	35. 85	54.00	-18. 15	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Vertical



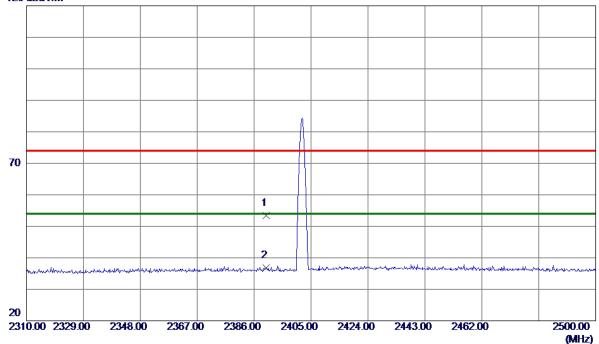
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4804.0000	48. 35	-9. 76	38. 59	74.00	-35.41	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Horizontal



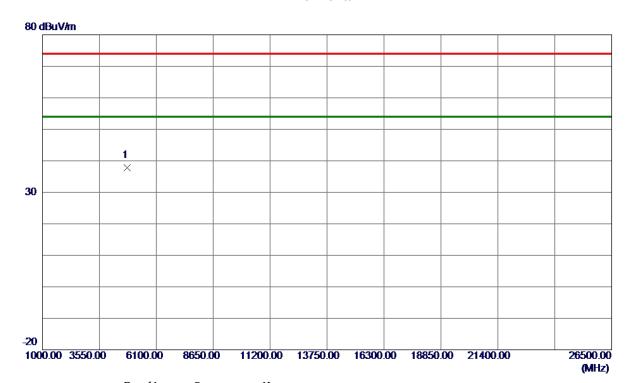


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
]	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	21. 05	32. 39	53.44	74.00	-20. 56	Peak	
2 *	2390. 0000	4. 35	32. 39	36. 74	54.00	-17. 26	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Horizontal

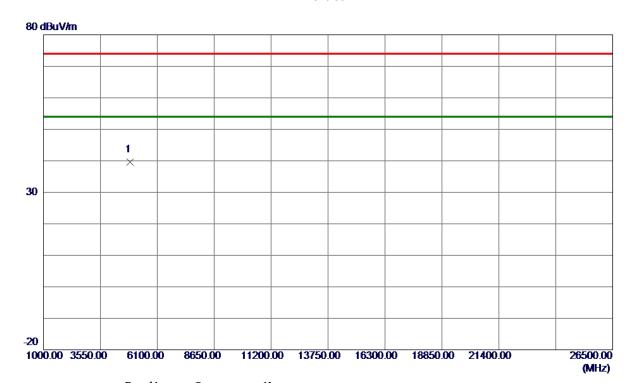


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4804.0000	47.48	-9. 76	37.72	74.00	-36. 28	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Vertical

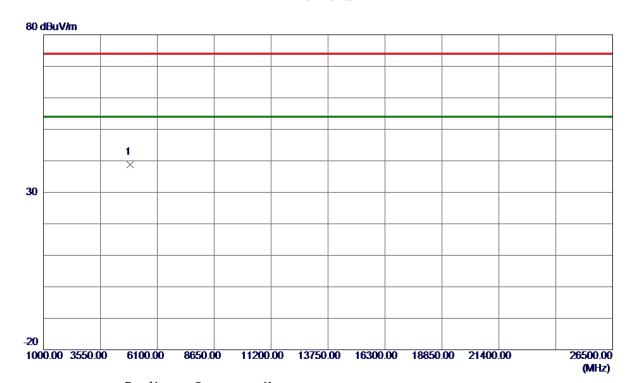


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880.0000	49. 16	-9.48	39. 68	74.00	-34. 32	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Horizontal

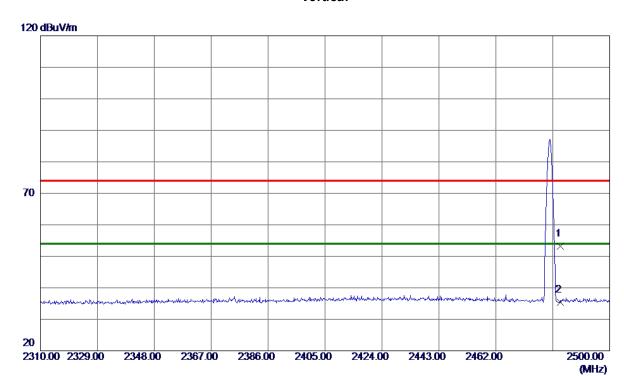


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880.0000	48. 19	-9.48	38.71	74.00	-35.29	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	20.62	32. 66	53. 28	74.00	-20.72	Peak	
2 *	2483. 5000	2. 83	32. 66	35. 49	54.00	-18. 51	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4960.0000	48.86	-9. 17	39. 69	74.00	-34.31	Peak	

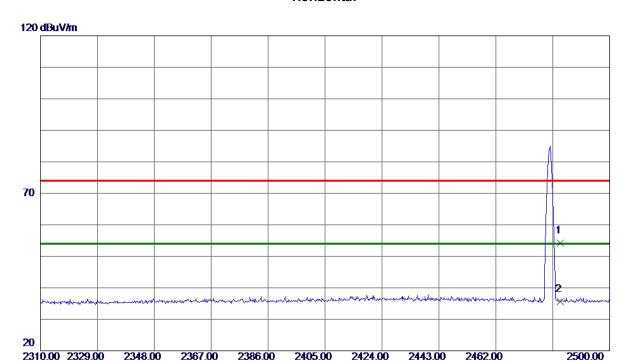
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

(MHz)



Test Mode: TX 2480 MHz _CH39_1Mbps

Horizontal

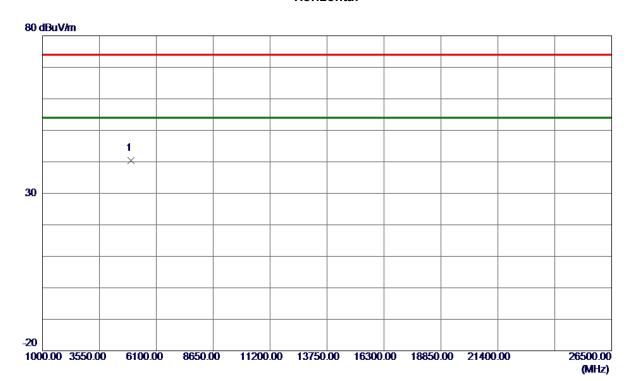


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2483. 5000	21.60	32. 66	54. 26	74.00	-19.74	Peak	
2 *	2483. 5000	2. 95	32. 66	35. 61	54.00	-18. 39	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4960.0000	49. 56	-9. 17	40. 39	74.00	-33. 61	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

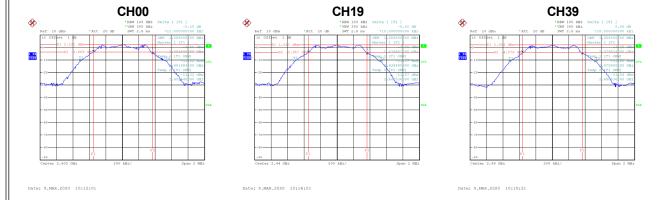


APPENDIX D - BANDWIDTH	



Test Mode: CH00, CH19, CH39 - 1Mbps

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Test Result
00	2402	0.722	500	Pass
19	2440	0.710	500	Pass
39	2480	0.728	500	Pass





APPENDIX E - MAXIMUM OUTPUT POWER		





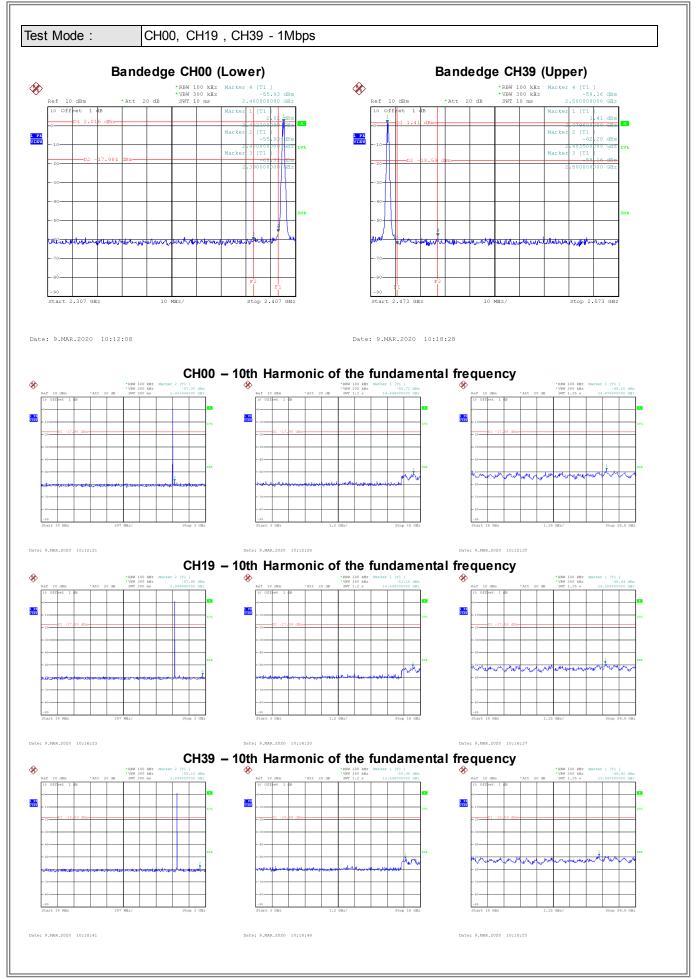
Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	3.59	0.0023	30.00	1.00	Pass
2440	3.35	0.0022	30.00	1.00	Pass
2480	3.20	0.0021	30.00	1.00	Pass



APPENDIX F - CONDUCTED SPURIOUS EMISSION







	APPENDIX G - POWER SPECTRAL DENSITY		
L			





Test Mode: CH00, CH19, CH39 - 1Mbps

Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	-12.22	8.00	Pass
19	2440	-12.64	8.00	Pass
39	2480	-14.04	8.00	Pass

