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# **TEST REPORT**

			121-2745-020-17-2 (21
Report No:	CHTEW20030097	Report Verificatior	
Project No	SHT2002002920EW		
FCC ID	2AIV9-AC1C		Reportivic: Chrittin20030099
Applicant's name:	Beijing Visual World Tech	nology Co.,Ltd.	
Address:	501 & 5F,102 No, Building Chaoyang District, Beijing	No. 2, No 6 Jiuxian	qiao Rd,
Manufacturer	Beijing Visual World Technol	ology Co.,Ltd.	
Address	501 & 5F,102 No, Building Chaoyang District, Beijing	No. 2, No 6 Jiuxian	qiao Rd,
Test item description:	360 Smart Camera little d	rop AI version	
Trade Mark:	+360		
Model/Type reference	AC1C		
Listed Model(s):	AC1CAS51, AC1CEU00, A AC1COC10, AC1CAS12, A AC1CAT00		
Standard:	FCC CFR Title 47 Part 15	Subpart C Section	15.247
Date of receipt of test sample:	Mar.04, 2020		
Date of testing	Mar.04, 2020- Mar.18, 2020	D	
Date of issue	Mar.19, 2020		
Result:	PASS		
Compiled by ( Position+Printed name+Signature):	File administrator Echo We	£	ho Wei
Supervised by (Position+Printed name+Signature):	Project Engineer Edward P	an 3d	ho Wei Nard Pan Jams Hu
Approved by (Position+Printed name+Signature):	RF Manager Hans Hu	F	formsHy
Testing Laboratory Name: :	Shenzhen Huatongwei Int	ernational Inspect	ion Co., Ltd.
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The test report merely correspond to the test sample.

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## 1. TEST STANDARDS AND REPORT VERSION

## 1.1. Test Standards

The tests were performed according to following standards:

- <u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

## 1.2. Report version

Revision No.	Date of issue	Description
N/A	2020-03-19	Original

## 2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247(c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247(b)(3)	PASS
5.4	Power Spectral Density	15.247(e)	PASS
5.5	6dB Bandwidth	15.247(a)(2)	PASS
5.6	99% Occupied Bandwidth	-	PASS <sup>*1</sup>
5.7	Duty cycle	-	PASS <sup>*1</sup>
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.9	Radiated Band Edge Emission	15.205/15.209	PASS
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

- The measurement uncertainty is not included in the test result.
- \*1: No requirement on standard, only report these test data.

## 3. SUMMARY

## 3.1. Client Information

Applicant:	Beijing Visual World Technology Co.,Ltd.	
Address:	501 & 5F,102 No, Building No. 2, No 6 Jiuxianqiao Rd, Chaoyang District, Beijing	
Manufacturer:	Beijing Visual World Technology Co.,Ltd.	
Address:	501 & 5F,102 No, Building No. 2, No 6 Jiuxianqiao Rd, Chaoyang District, Beijing	

## 3.2. Product Description

Name of EUT:	360 Smart Camera little drop AI version	
Trade Mark:	+360	
Model No.:	AC1C	
Listed Model(s):	AC1CAS51, AC1CEU00, AC1CNA19, AC1CAS11, AC1CAS18, AC1COC10, AC1CAS12, AC1CAS14, AC1CAS15, AC1CAS16, AC1CAT00	
Power supply:	DC 5V from adapter	
Adapter Information 1:	Model: A18A-050100U-US2 Input: 100-240Va.c.,50/60Hz 0.2A Output: 5Vd.c.,1.0A	
Adapter Information 2:	Model: TEKA006-0501000UK Input: 100-240Va.c.,50/60Hz 0.3A MAX Output: 5Vd.c.,1000mA	
Hardware version:	HI3518EV300_V360P6_GC2053_D903	
Software version:	AC1CA1_B_20200302.7.2.1	

## 3.3. Radio Specification Description

Support type <sup>*2</sup> :	802.11b, 802.11g, 802.11n(HT20), 802.11n(H4T0)
Modulation:         DSSS for 802.11b           OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)	
Operation frequency:         2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)           2422MHz~2452MHz for 802.11n(HT40)	
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 9 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	PIFA
Antenna gain:	-2 dBi

Note:

\*2: only show the RF function associated with this report.

## 3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
	Туре	Accreditation Number	
	CNAS	L1225	
Qualifications	A2LA	3902.01	
	FCC	762235	
	Canada	5377A	

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## 4. TEST CONFIGURATION

## 4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/802.11g/802.11n(HT20)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	· :	· :	· :
06	2437	06	2437
• :	• :	• :	· :
10	2457	08	2447
11	2462	09	2452

## 4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(HT20)	MCS0	
802.11n(HT40)	MCS0	

## 4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

## 4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Wheth	Whether support unit is used?				
~	No				
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
2					

## 4.5. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

## 4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 4.7. Equipment Used during the Test

•	Conducted Em	ission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2019/10/26	2020/10/25
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2019/10/23	2020/10/22
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emiss	sion-6th test site					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2019/10/26	2020/10/25
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2017/04/05	2020/04/04
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 01	N/A	N/A	2019/08/21	2020/08/20
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 02	SUCOFLEX 104	501184/4	2019/05/27	2020/05/26
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emis	sion-7th test site					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2019/10/26	2020/10/25
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2017/04/01	2020/03/31
•	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	25841	2017/03/27	2020/03/26
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/10
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2019/05/23	2020/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2019/05/10	2020/05/09
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2019/10/26	2020/10/25
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2019/10/26	2020/10/25
•	Power Meter	Anritsu	ML249A	N/A	2019/10/26	2020/10/25
0	Radio communication tester	R&S	CMW500	137688-Lv	2019/10/26	2020/10/25

## 5. TEST CONDITIONS AND RESULTS

## 5.1. Antenna Requirement

## <u>Requirement</u>

### FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble 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, 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.

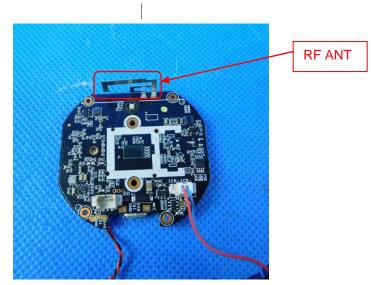
### FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

### TEST RESULT

## ☑ Passed □ Not Applicable

The antenna type is a PCB antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



## 5.2. AC Conducted Emission

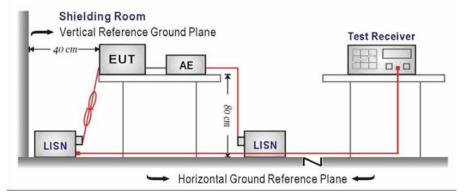
### LIMIT

#### FCC CFR Title 47 Part 15 Subpart C Section 15.207

	Limit (dBuV)					
Frequency range (MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				

\* Decreases with the logarithm of the frequency.

### **TEST CONFIGURATION**



#### TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

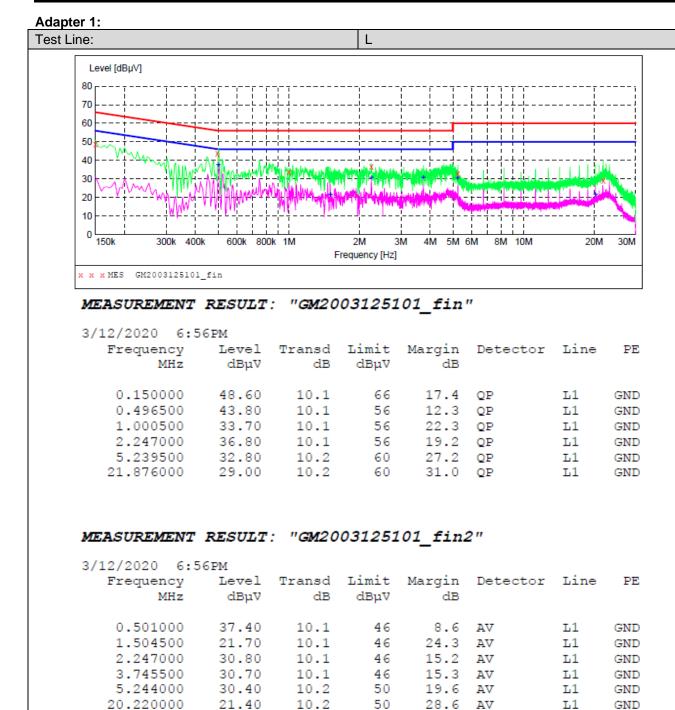
## TEST MODE:

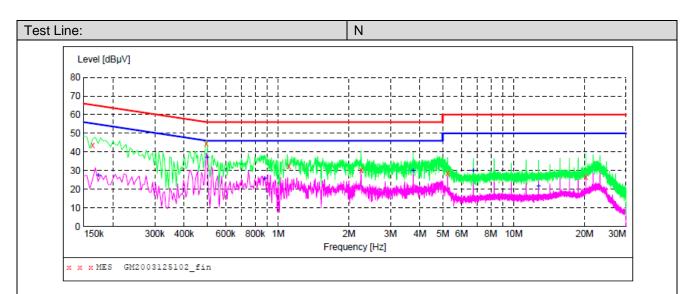
Please refer to the clause 4.2

## TEST RESULT

☑ Passed □ Not Applicable

Shenzhen Huatongwei International Inspection Co., Ltd.



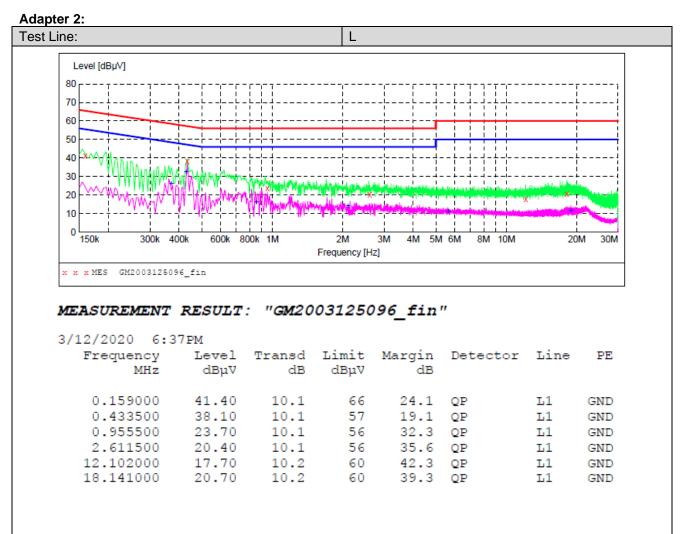


## MEASUREMENT RESULT: "GM2003125102\_fin"

3/12/2020	7:01PM						
Frequen M	cy Level Hz dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.1635	00 43.90	10.1	65	21.4	QP	N	GND
0.4965	00 44.40	10.1	56	11.7	QP	Ν	GND
1.1130	00 32.30	10.1	56	23.7	QP	N	GND
2.2560	00 30.30	10.1	56	25.7	QP	N	GND
5.2575	00 28.70	10.2	60	31.3	QP	N	GND
20.2695	00 26.70	10.2	60	33.3	QP	N	GND

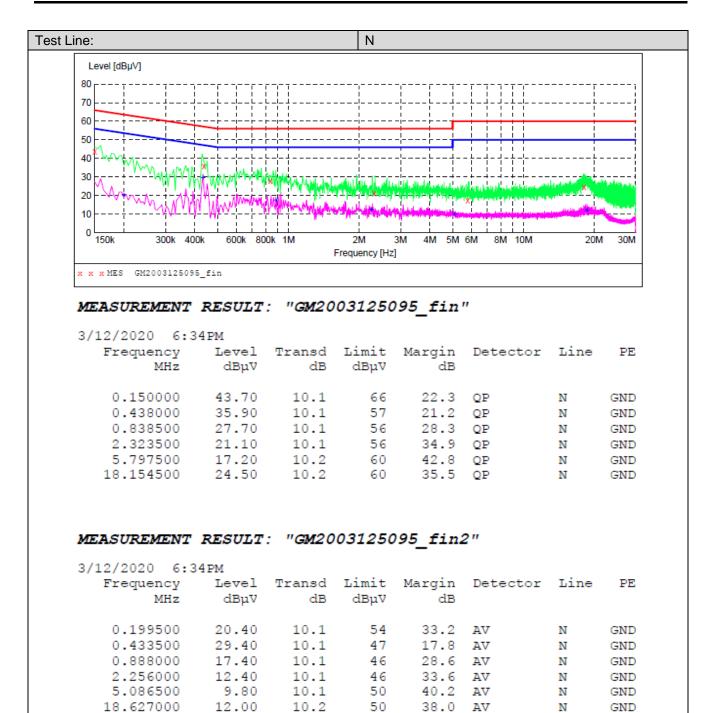
MEASUREMENT RESULT: "GM2003125102\_fin2"

3/12/2020 7: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	27.60	10.1	55	27.2	AV	N	GND
0.501000	37.20	10.1	46	8.8	AV	N	GND
0.879000	25.90	10.1	46	20.1	AV	N	GND
3.745500	29.70	10.1	46	16.3	AV	N	GND
6.747000	29.90	10.2	50	20.1	AV	N	GND
12.736500	21.60	10.2	50	28.4	AV	Ν	GND



MEASUREMENT RESULT: "GM2003125096 fin2"

3/12/2020 6:3 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.370500	26.20	10.1	49	22.3	AV	L1	GND
0.429000	32.30	10.1	47	15.0	AV	L1	GND
0.856500	16.00	10.1	46	30.0	AV	L1	GND
2.103000	13.90	10.1	46	32.1	AV	L1	GND
5.640000	11.20	10.2	50	38.8	AV	L1	GND
18.825000	11.40	10.2	50	38.6	AV	L1	GND

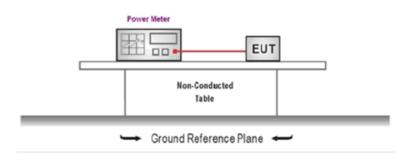


## 5.3. Peak Output Power

### <u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

## **TEST CONFIGURATION**



## TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

## TEST MODE:

Please refer to the clause 4.2

## TEST RESULT

☑ Passed □ Not Applicable

## TEST Data

Please refer to appendix A on the appendix report

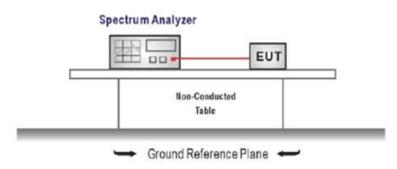
## 5.4. Power Spectral Density

### <u>LIMIT</u>

### FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

## **TEST CONFIGURATION**



### TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below: Center frequency=DTS channel center frequency Span =1.5 times the DTS bandwidth RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW Sweep time = auto couple Detector = peak Trace mode = max hold
- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## TEST MODE:

Please refer to the clause 4.2

## TEST RESULT

## ☑ Passed □ Not Applicable

## TEST Data

Please refer to appendix B on the appendix report

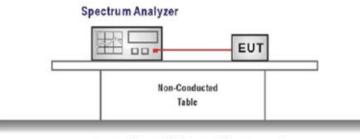
## 5.5. 6dB bandwidth

## <u>LIMIT</u>

## FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

## TEST CONFIGURATION



➡ Ground Reference Plane 

## TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW  $\ge$  3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. 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 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

#### TEST MODE:

Please refer to the clause 4.2

#### TEST RESULT

🛛 Passed 🛛 🗌

Not Applicable

## TEST Data

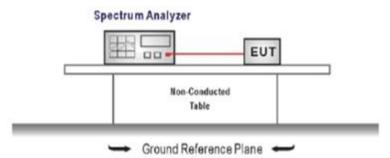
Please refer to appendix C on the appendix report

## 5.6. 99% Occupied Bandwidth

### <u>LIMIT</u>

N/A

## **TEST CONFIGURATION**



### TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =channel center frequency Span≥1.5 x OBW RBW = 1%~5%OBW VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

#### TEST MODE:

Please refer to the clause 4.2

#### TEST RESULT

☑ Passed □ Not Applicable

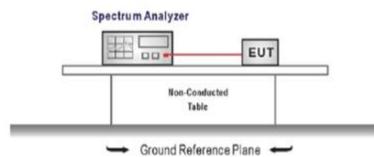
## TEST Data

Please refer to appendix D on the appendix report

## 5.7. Duty Cycle

N/A

## **TEST CONFIGURATION**



## TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings: Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW Sweep=as necessary to capture the entire dwell time, Detector function = peak, Trigger mode
- 4. Measure and record the duty cycle data

## TEST MODE:

Please refer to the clause 4.2

## TEST Data

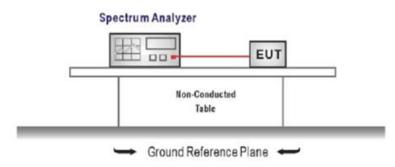
Please refer to appendix E on the appendix report

## 5.8. Conducted Band edge and Spurious Emission

#### <u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

## **TEST CONFIGURATION**



## TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Establish a reference level by using the following procedure Center frequency=DTS channel center frequency The span = 1.5 times the DTS bandwidth. RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

 $RBW = 100 \text{ kHz}, VBW \ge 3 \text{ x RBW}$ 

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

#### TEST MODE:

Please refer to the clause 4.2

### TEST RESULT

☑ Passed □ Not Applicable

## TEST Data

Please refer to appendix F on the appendix report

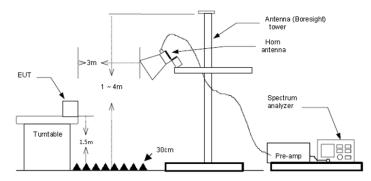
## 5.9. Radiated Band edge Emission

### <u>LIMIT</u>

## FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

## **TEST CONFIGURATION**



### TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. Use the following spectrum analyzer settings:
  - a) Span shall wide enough to fully capture the emission being measured
  - b) Set RBW=100kHz for <1GHz, VBW=3\*RBW, Sweep time=auto, Detector=peak, Trace=max hold
  - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- − VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

### TEST MODE:

Please refer to the clause 4.2

## TEST RESULT

#### ☑ Passed □ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Туре		802.11b		Test channel		CH01		olarity	Horizontal				
	Susp	Suspected Data List											
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margii [dB]	n Polarity	Detector				
	1	2310.000	30.83	17.66	48.49	74.00	25.51	Horizontal	PK				
	2	2310.000	27.88	17.66	45.54	54.00	8.46	Horizontal	AV				
	3	2390.009	30.55	17.59	48.14	74.00	25.86	6 Horizontal	PK				
	4	2390.009	27.50	17.59	45.09	54.00	8.91	Horizontal	AV				

Туре	802.11b		Test cha	Test channel CH01			Polarity		Vertical	
	Susp	ected Data	List							
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]		rgin B]	Polarity	Detector
	1	2310.000	31.33	17.66	48.99	74.00	25	.01	Vertical	PK
	2	2310.000	28.98	17.66	46.64	54.00	7.	36	Vertical	AV
	3	2390.009	30.87	17.59	48.46	74.00	25	.54	Vertical	PK
	4	2390.009	26.83	17.59	44.42	54.00	9.	58	Vertical	AV

Туре	802.11b		Test cha	Test channel		P	olarity	Horizonta			
	Suspe	Suspected Data List									
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margir [dB]	n Polarity	Detector		
	1	2483.514	30.90	17.85	48.75	74.00	25.25	Horizontal	PK		
	2	2483.514	27.28	17.85	45.13	54.00	8.87	Horizontal	AV		
	3	2500.000	31.45	17.90	49.35	74.00	24.65	Horizontal	PK		
	4	2500.000	28.01	17.90	45.91	54.00	8.09	Horizontal	AV		

Туре		802.	11b	Test cha	nnel	CH11		Polar	ity	Vertical
	Susp	ected Data	List							
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Març [dB	-	Polarity	Detector
	1	2483.514	30.92	17.85	48.77	74.00	25.2	23	Vertical	PK
	2	2483.514	26.92	17.85	44.77	54.00	9.2	3	Vertical	AV
	3	2500.000	30.77	17.90	48.67	74.00	25.3	33	Vertical	PK
	4	2500.000	28.57	17.90	46.47	54.00	7.5	3	Vertical	AV

Туре	ре		802.11g		Test channel CH01		Po	Horizonta	
	Suspe	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector
	1	2310.000	30.89	17.66	48.55	74.00	25.45	Horizontal	PK
	2	2310.000	28.22	17.66	45.88	54.00	8.12	Horizontal	AV
	3	2390.009	30.41	17.59	48.00	74.00	26.00	Horizontal	PK
	4	2390.009	26.93	17.59	44.52	54.00	9.48	Horizontal	AV

Туре		802.	802.11g		Test channel CH01		Po	arity	Vertical	
	Susp	ected Data	List							
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector	
	1	2310.000	30.10	17.66	47.76	74.00	26.24	Vertical	PK	
	2	2310.000	26.20	17.66	43.86	54.00	10.14	Vertical	AV	
	3	2390.009	26.05	17.59	43.64	54.00	10.36	Vertical	AV	
	4	2390.009	30.09	17.59	47.68	74.00	26.32	Vertical	PK	

Туре		802.11g		Test channel		CH11		olarity	Horizonta
	Susp	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector
	1	2483.514	29.55	17.85	47.40	74.00	26.60	Horizontal	PK
	2	2483.514	26.67	17.85	44.52	54.00	9.48	Horizontal	AV
	3	2500.000	30.07	17.90	47.97	74.00	26.03	Horizontal	PK
	4	2500.000	27.45	17.90	45.35	54.00	8.65	Horizontal	AV

Туре	pe 81		.11g	Test cha	Test channel CH11		Po	plarity	Vertical
	Susp	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector
	1	2483.514	31.34	17.85	49.19	74.00	24.81	Vertical	PK
	2	2483.514	28.46	17.85	46.31	54.00	7.69	Vertical	AV
	3	2500.000	30.23	17.90	48.13	74.00	25.87	Vertical	PK
	4	2500.000	26.92	17.90	44.82	54.00	9.18	Vertical	AV

Туре		802.	11n(HT20)	Test char	nnel	CH01		Polarity		Horizonta	al
	Suspe	ected Data	List								
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Març [dB	´   P	olarity	Detector	
	1	2310.000	30.60	17.66	48.26	74.00	25.7	74 Ho	rizontal	PK	
	2	2310.000	27.09	17.66	44.75	54.00	9.2	5 Ho	rizontal	AV	
	3	2390.009	26.93	17.59	44.52	54.00	9.4	8 Ho	rizontal	AV	
	4	2390.009	29.44	17.59	47.03	74.00	26.9	97 Ho	rizontal	PK	

Туре	)e		802.11n(HT20)		Test channel		Pol	arity	Vertical
	Suspe	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector
	1	2310.000	29.78	17.66	47.44	74.00	26.56	Vertical	PK
	2	2310.000	27.24	17.66	44.90	54.00	9.10	Vertical	AV
	3	2390.009	30.73	17.59	48.32	74.00	25.68	Vertical	PK
	4	2390.009	26.26	17.59	43.85	54.00	10.15	Vertical	AV

Туре		802.	11n(HT20)	Test char	nnel	CH11	F	Polarity		Horizonta
	Susp	ected Data	List							
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]	Pola	rity	Detector
	1	2483.514	31.42	17.85	49.27	74.00	24.7	3 Horizo	ontal	PK
	2	2483.514	27.16	17.85	45.01	54.00	8.99	) Horizo	ontal	AV
	3	2500.000	30.79	17.90	48.69	74.00	25.3	1 Horizo	ontal	PK
	4	2500.000	28.46	17.90	46.36	54.00	7.64	4 Horizo	ontal	AV

Туре	vpe		802.11n(HT20)		Test channel		P	olarity	Vertical
	Suspe	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margii [dB]	n Polarity	Detector
	1	2483.514	29.91	17.85	47.76	74.00	26.24	Vertical	PK
	2	2483.514	27.04	17.85	44.89	54.00	9.11	Vertical	AV
	3	2500.000	26.88	17.90	44.78	54.00	9.22	Vertical	AV
	4	2500.000	30.33	17.90	48.23	74.00	25.77	Vertical	PK

Туре		802.	.11n(HT40)	Test cha	nnel	CH01	Pol	arity	Horizontal
	Susp	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
	1	2310.000	30.76	17.66	48.42	74.00	25.58	Horizontal	PK
	2	2310.000	27.00	17.66	44.66	54.00	9.34	Horizontal	AV
	3	2390.108	26.58	17.59	44.17	54.00	9.83	Horizontal	AV
	4	2390.108	31.57	17.59	49.16	74.00	24.84	Horizontal	PK

Туре	уре		.11n(HT40)	Test channel		CH01		Polarity		Vertical
	Susp	ected Data	List							
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]		rgin B]	Polarity	Detector
	1	2310.000	30.47	17.66	48.13	74.00	25	.87	Vertical	PK
	2	2310.000	27.47	17.66	45.13	54.00	8.	87	Vertical	AV
	3	2390.108	29.83	17.59	47.42	74.00	26	.58	Vertical	PK
	4	2390.108	26.86	17.59	44.45	54.00	9.	55	Vertical	AV

Туре		802.	11n(HT40)	Test char	nnel	CH11	Po	plarity	Horizonta
	Susp	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
	1	2483.500	29.65	17.85	47.50	74.00	26.50	Horizontal	PK
	2	2483.500	26.21	17.85	44.06	54.00	9.94	Horizontal	AV
	3	2500.000	30.32	17.90	48.22	74.00	25.78	Horizontal	PK
	4	2500.000	26.37	17.90	44.27	54.00	9.73	Horizontal	AV

Туре		802	.11n(HT40)	Test cha	nnel	CH11	Pola	rity	Vertical
	Suspe	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
	1	2483.500	30.05	17.85	47.90	74.00	26.10	Vertical	PK
	2	2483.500	27.06	17.85	44.91	54.00	9.09	Vertical	AV
	3	2500.000	29.69	17.90	47.59	74.00	26.41	Vertical	PK
	4	2500.000	26.19	17.90	44.09	54.00	9.91	Vertical	AV

## 5.10. Radiated Spurious Emission

## <u>LIMIT</u>

### FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

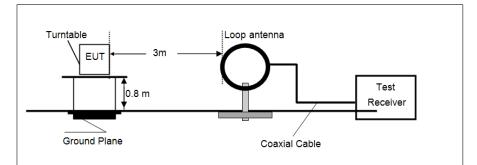
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40\*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40\*log(30/3)= Limit dBuV/m @30m + 40.

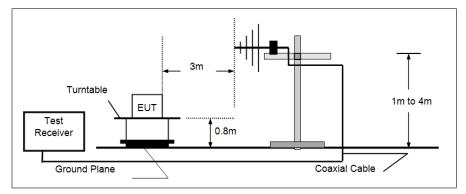
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGH2	74.00	Peak

### **TEST CONFIGURATION**

> 9 kHz ~ 30 MHz

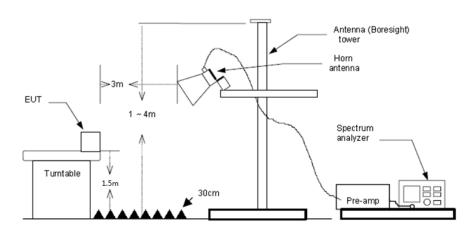


> 30 MHz ~ 1 GHz



> Above 1 GHz

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#### TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, 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 to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
  - a) Span shall wide enough to fully capture the emission being measured;
  - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

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.

c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- − VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

#### TEST MODE:

Please refer to the clause 4.2

#### TEST RESULT

☑ Passed □ Not Applicable

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

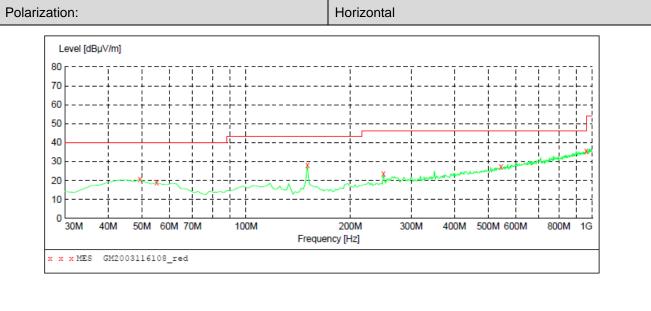
### TEST DATA FOR 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

#### TEST DATA FOR 30 MHz ~ 1000 MHz

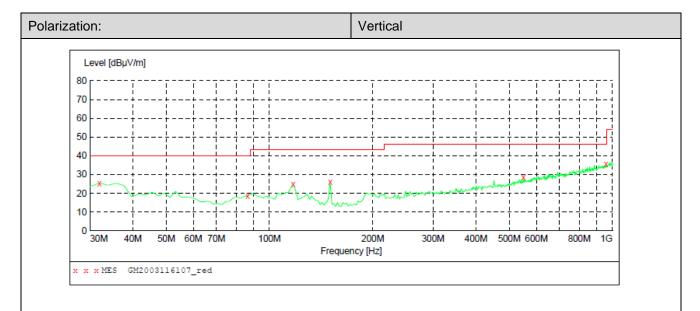
Have pre-scan all test channel and both adapter, found CH11 of 802.11B which it was worst case, so only show the worst case's data on this report.

#### Adapter 1:



#### MEASUREMENT RESULT: "GM2003116108\_red"

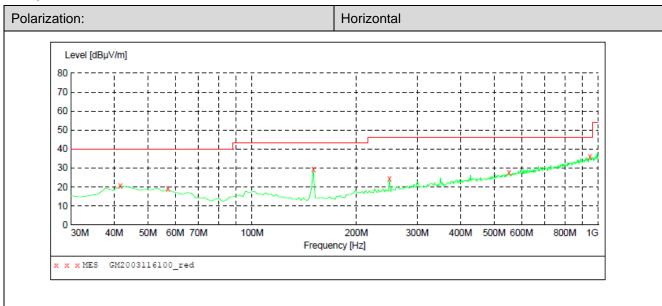
Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
49.400000	20.70	-8.9	40.0	19.3	QP	300.0	46.00	HORIZONTAL
55.220000	18.90	-8.4	40.0	21.1	QP	300.0	161.00	HORIZONTAL
150.280000	28.30	-13.4	43.5	15.2	QP	300.0	338.00	HORIZONTAL
249.220000	23.60	-8.2	46.0	22.4	QP	100.0	262.00	HORIZONTAL
544.100000	27.40	0.0	46.0	18.6	QP	300.0	7.00	HORIZONTAL
959.260000	35.70	8.4	46.0	10.3	QP	300.0	212.00	HORIZONTAL



#### MEASUREMENT RESULT: "GM2003116107\_red"

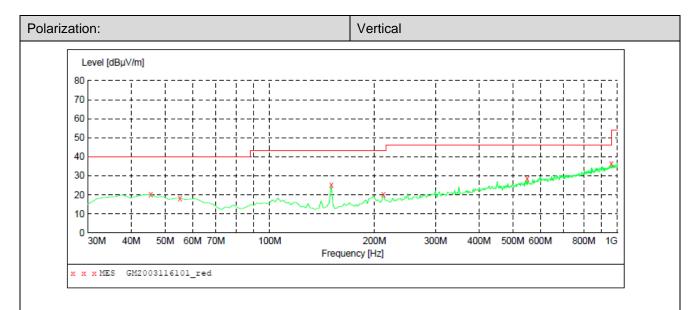
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000	25.40	-12.7	40.0	14.6	QP	100.0	50.00	VERTICAL
86.260000	18.50	-13.4	40.0	21.5	QP	100.0	355.00	VERTICAL
117.300000	24.80	-11.3	43.5	18.7	QP	100.0	294.00	VERTICAL
150.280000	25.90	-13.4	43.5	17.6	QP	100.0	255.00	VERTICAL
549.920000	28.40	0.2	46.0	17.6	QP	100.0	155.00	VERTICAL
957.320000	35.60	8.3	46.0	10.4	QP	100.0	271.00	VERTICAL

#### Adapter 2:



#### MEASUREMENT RESULT: "GM2003116100 red"

Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
41.640000	20.50	-9.2	40.0	19.5	QP	300.0	188.00	HORIZONTAL
57.160000	19.00	-8.7	40.0	21.0	QP	300.0	172.00	HORIZONTAL
150.280000	29.40	-13.4	43.5	14.1	QP	100.0	192.00	HORIZONTAL
249.220000	24.20	-8.2	46.0	21.8	QP	100.0	216.00	HORIZONTAL
551.860000	27.60	0.2	46.0	18.4	QP	300.0	360.00	HORIZONTAL
945.680000	35.90	8.1	46.0	10.1	QP	300.0	7.00	HORIZONTAL



#### MEASUREMENT RESULT: "GM2003116101 red"

3/11/2020 7:52PM Frequency Level Transd Limit Margin Det. Height Azimuth Polarization MHz dBµV/m dB dBµV/m dB cm deg 19.9 QP -8.4 -8.4 40.0 314.00 VERTICAL 210.00 VERTICAL 45.520000 20.10 100.0 21.8 QP 18.2 QP 55.220000 18.20 40.0 100.0 150.280000 25.30 -13.4 43.5 100.0 314.00 VERTICAL 43.5 23.3 QP 17.4 QP -9.8 212.360000 20.20 100.0 298.00 VERTICAL 549.920000 28.60 0.2 46.0 100.0 148.00 VERTICAL 9.5 QP 959.260000 36.50 8.4 46.0 100.0 109.00 VERTICAL

## TEST DATA FOR 1 GHz ~ 25 GHz

/pe			802.1 <sup>2</sup>	lb		Test channe	I	CH00	
				_		_	_		_
	Susp	ected Data			1				
	NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
		[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	· ordanity	20100101
	1	1214.437	35.67	-5.79	29.88	74.00	44.12	Horizontal	PK
	2	3182.562	34.09	0.75	34.84	74.00	39.16	Horizontal	PK
	3	4551.437	32.94	5.57	38.51	74.00	35.49	Horizontal	PK
	4	6829.468	31.32	13.47	44.79	74.00	29.21	Horizontal	PK
	Susp	ected Data				1			
	NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
		[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]		
	1	1190.937	36.28	-5.93	30.35	74.00	43.65	Vertical	PK
	2	3166.406	33.94	0.67	34.61	74.00	39.39	Vertical	PK
	3	4824.625	32.61	7.08	39.69	74.00	34.31	Vertical	PK
	4	7061.531	30.96	14.33	45.29	74.00	28.71	Vertical	PK
~			000 1	()-		Test		01107	
be			802.1	D		Test channe		CH07	
	Suspe	ected Data	List						
		Freq.	Reading	Factor	Level	Limit	Margin		
	NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector
	1	1249.687	35.65	-5.70	29.95	74.00	44.05	Horizontal	PK
	2	3198.718	34.28	0.83	35.11	74.00	38.89	Horizontal	PK
	3	4837.843	31.21	7.10	38.31	74.00	35.69	Horizontal	PK
	4	7110.000	31.84	14.49	46.33	74.00	27.67	Horizontal	PK
	Susp	ected Data	List						
		Freq.	Reading	Factor	Level	Limit	Margin		
	NO.		[dBµV/m]				Ŭ	Polarity	Detector
		[MHz]		[dB]	[dBµV/m]	[dBµV/m]	[dB]		
	1	1217.375	35.83	-5.78	30.05	74.00	43.95	Vertical	PK
	2	2998.968	37.88	-0.11	37.77	74.00	36.23	Vertical	PK
	3	4730.625	32.62	6.59	39.21	74.00	34.79	Vertical	PK
	4	6684.062	31.53	13.42	44.95	74.00	29.05	Vertical	PK
е			802.1 <sup>2</sup>	lb		Test channe	I	CH11	
	•								
	Suspe	ected Data							
	NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
		[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]		
	1	1227.656	35.42	-5.76	29.66	74.00	44.34	Horizontal	PK
	2	2996.031	35.96	-0.10	35.86	74.00	38.14	Horizontal	PK
	3	4804.062	31.21	7.06	38.27	74.00	35.73	Horizontal	PK
	4	7215.750	30.80	15.00	45.80	74.00	28.20	Horizontal	PK
	Susp	ected Data	List						
		Freq.	Reading	Factor	Level	Limit	Margin		
	NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector
	1	1255.562	35.62	-5.69	29.93	74.00	44.07	Vertical	PK
	2	3076.812	36.19	0.22	36.41	74.00	37.59	Vertical	PK
	3	4846.656	31.59	7.11	38.70	74.00	35.30	Vertical	PK
	4	7196.656	31.52	14.97	46.49	74.00	27.51	Vertical	PK

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уре			802.11	g		Test channe		CH00	
	Susp	ected Data	List						
	NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
	1	1240.875	35.36	-5.72	29.64	74.00	44.36	Horizontal	PK
	2	2997.500	34.64	-0.11	34.53	74.00	39.47	Horizontal	PK
	3	4760.000	32.72	6.78	39.50	74.00	34.50	Horizontal	PK
	4	6860.312	31.13	13.74	44.87	74.00	29.13	Horizontal	PK
	Sush	ected Data	l ist						
	Jusp		Reading	Factor	Level	Limit	Margin		
	NO.	Freq. [MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	Margin [dB]	Polarity	Detector
	1	1242.343	35.97	-5.72	30.25	74.00	43.75	Vertical	PK
	2	3115.000	34.41	0.40	34.81	74.00	39.19	Vertical	PK
	3	4726.218	32.17	6.56	38.73	74.00	35.27	Vertical	PK
	4	6836.812	32.07	13.53	45.60	74.00	28.40	Vertical	PK
e			802.11	a		Test channe	1	CH07	
			002.11	9				0.101	
	Susp	ected Data				-			
	NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
	110.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	1 oldrity	Detector
[	1	1242.343	35.87	-5.72	30.15	74.00	43.85	Horizontal	PK
	2	3181.093	33.57	0.74	34.31	74.00	39.69	Horizontal	PK
	3	4743.843	31.51	6.67	38.18	74.00	35.82	Horizontal	PK
l	4	6659.093	31.01	13.34	44.35	74.00	29.65	Horizontal	PK
	Susp	ected Data	List						
		Freq.	Reading	Factor	Level	Limit	Margin		
	NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector
	1	1257.031	35.02	-5.68	29.34	74.00	44.66	Vertical	PK
	2	3188,437	35.22	0.78	36.00	74.00	38.00	Vertical	PK
	3	4815.812	31.79	7.07	38.86	74.00	35.14	Vertical	PK
	4	7004.250	31.21	14.18	45.39	74.00	28.61	Vertical	PK
be			802.11	a		Test channe	1	CH11	
				5					_
	Susp	ected Data							
	NO.	Freq.	Reading [dBµV/m]	Factor	Level [dBµV/m]	Limit	Margin	Polarity	Detector
	1	[MHz] 1195.343	35.41	[dB] -5.88	29.53	[dBµV/m] 74.00	[dB] 44.47	Horizontal	PK
	1	3184.031	33.26	-5.88	34.02	74.00	44.47 39.98	Horizontal	PK PK
	3	4718.875	32.99	6.51	39.50	74.00	34.50	Horizontal	PK
	4	7126.156	31.62	14.58	46.20	74.00	27.80	Horizontal	PK
L I	-						2.1.00		
	Suspe	ected Data							
	NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
		[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]		
	1	1190.937	36.19	-5.93	30.26	74.00	43.74	Vertical	PK
	2	3188.437	34.50	0.78	35.28	74.00	38.72	Vertical	PK
	3	4727.687	32.17	6.57	38.74	74.00	35.26	Vertical	PK
ŀ	4	6703.156	31.34	13.46	44.80	74.00	29.20	Vertical	PK

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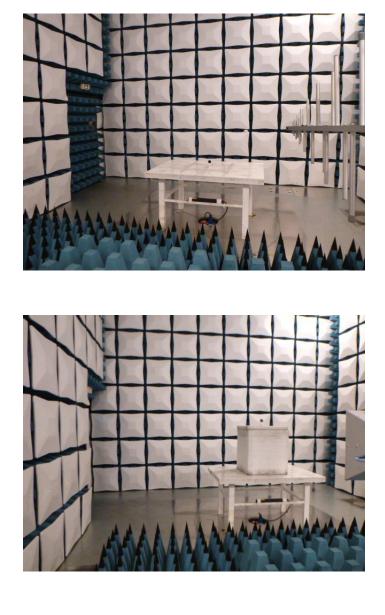
e		802.1	1n(HT20)		Test channe	I	CH00	
Sus	pected Data	List						
	Freq.	Reading	Factor	Level	Limit	Margin		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector
1	1236.468	35.20	-5.74	29.46	74.00	44,54	Horizontal	PK
1	3134.093	34.57	0.50	35.07	74.00	38.93	Horizontal	PK
3	4826.093	32.19	7.08	39.27	74.00	34.73	Horizontal	PK
4	6679.656	31.34	13.40	44.74	74.00	29.26	Horizontal	PK
4	0075.000	01.04	10.40	44.74	74.00	23.20	Tionzontai	FK
Sus	pected Data	List						
	Freq.	Reading	Factor	Level	Limit	Margin		
NO.	. [MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector
1	1232.062	35.40	-5.75	29.65	74.00	44.35	Vertical	PK
2	2787.468	31.77	1.90	33.67	74.00	44.33	Vertical	PK
3	4551.437	32.55	5.57	38.12	74.00	35.88	Vertical	PK
4	7011.593	31.16	14.20	45.36	74.00	28.64	Vertical	PK
	1011.000	01.10	17.20	40.00	14.00	20.04	+ ontiour	
е		802.1	1n(HT20)		Test channe		CH07	
Sus	spected Data	List						
	Freq.	Reading	Factor	Level	Limit	Margin		
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector
1	1139.531	35.72	-6.47	29.25	74.00	44.75	Horizontal	PK
2	3173.750	33.53	0.70	34.23	74.00	39.77	Horizontal	PK
3	4755.593	32.07	6.75	38.82	74.00	35.18	Horizontal	PK
4	7186.375	31.36	14.91	46.27	74.00	27.73	Horizontal	PK
<b>C</b>	n a stard Data	1 :						
Sus	pected Data							
NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	, chanty	2000000
1	1220.312	35.84	-5.78	30.06	74.00	43.94	Vertical	PK
2	2991.625	37.00	-0.07	36.93	74.00	37.07	Vertical	PK
3	4886.312	32.03	7.16	39.19	74.00	34.81	Vertical	PK
4	6744.281	31.93	13.35	45.28	74.00	28.72	Vertical	PK
e		802.1	1n(HT20)		Test channe	I	CH11	
			. ,					_
Sus	pected Data							
NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµ∨/m]	[dB]		
	1195.343	35.92	-5.88	30.04	74.00	43.96	Horizontal	PK
1	1	35.09	-0.12	34.97	74.00	39.03	Horizontal	PK
1	3000.437				74.00	35.97	Horizontal	PK
	3000.437 4648.375	31.96	6.07	38.03	74.00	55.51		
2			6.07 13.33	38.03 45.08	74.00	28.92	Horizontal	PK
2 3 4	4648.375 6753.093	31.96 31.75						PK
2 3 4	4648.375 6753.093	31.96 31.75 List	13.33	45.08	74.00	28.92		PK
2 3 4	4648.375 6753.093	31.96 31.75 List Reading	13.33 Factor	45.08 Level	74.00 Limit	28.92 Margin		PK
2 3 4 <b>Sus</b> NO.	4648.375 6753.093 <b>pected Data</b> Freq. [MHz]	31.96 31.75 List Reading [dBµV/m]	13.33 Factor [dB]	45.08 Level [dBμV/m]	74.00 Limit [dBμV/m]	28.92 Margin [dB]	Horizontal Polarity	Detector
2 3 4 <b>Sus</b> NO.	4648.375 6753.093 <b>EPECTED Data</b> Freq. [MHz] 1177.718	31.96 31.75 List Reading [dBµV/m] 35.96	13.33 Factor [dB] -6.07	45.08 Level [dBµV/m] 29.89	74.00 Limit [dBµV/m] 74.00	28.92 Margin [dB] 44.11	Horizontal Polarity Vertical	Detector PK
2 3 4 <b>Sus</b> NO. 1 2	4648.375 6753.093 <b>Expected Data</b> Freq. [MHz] 1177.718 2993.093	31.96 31.75 List Reading [dBµV/m] 35.96 36.47	13.33 Factor [dB] -6.07 -0.08	45.08 Level [dBµV/m] 29.89 36.39	74.00 Limit [dBμV/m] 74.00 74.00	28.92 Margin [dB] 44.11 37.61	Horizontal Polarity Vertical Vertical	Detector PK PK
2 3 4 <b>Sus</b> NO.	4648.375 6753.093 <b>EPECTED Data</b> Freq. [MHz] 1177.718	31.96 31.75 List Reading [dBµV/m] 35.96	13.33 Factor [dB] -6.07	45.08 Level [dBµV/m] 29.89	74.00 Limit [dBµV/m] 74.00	28.92 Margin [dB] 44.11	Horizontal Polarity Vertical	Detector PK

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be		802.1	1n(HT40)		Test channel		CH03	
S	uspected Data	List						
	NO. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
	1 1192.406	35.42	-5.91	29.51	74.00	44.49	Horizontal	PK
	2 3151.718	33.61	0.59	34.20	74.00	39.80	Horizontal	PK
	3 4834.906	30.93	7.10	38.03	74.00	35.97	Horizontal	PK
	4 7384.656	32.11	15.32	47.43	74.00	26.57	Horizontal	PK
•		1.1-4						
S	uspected Data							
N	IO. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector
	1 1138.062	37.10	-6.49	30.61	74.00	43.39	Vertical	PK
	2 3151.718	34.82	0.59	35.41	74.00	38.59	Vertical	PK
	3 4674.812	33.16	6.23	39.39	74.00	34.61	Vertical	PK
	4 6757.500	32.27	13.31	45.58	74.00	28.42	Vertical	PK
be		802.1	1n(HT40)		Test channel		CH07	
5	uspected Data	List						
	IO. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµ∨/m]	Margin [dB]	Polarity	Detector
	1 1240.875	35.36	-5.72	29.64	74.00	44.36	Horizontal	PK
	2 3185.500	34.50	0.76	35.26	74.00	38.74	Horizontal	PK
	3 4912.750	32.07	7.27	39.34	74.00	34.66	Horizontal	PK
	4 7486.000	32.38	15.40	47.78	74.00	26.22	Horizontal	PK
S	uspected Data	l ist						
-	-	Reading	Factor	Level	Limit	Margin		
N	NO. [MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµ∨/m]	[dB]	Polarity	Detector
	NO. I					Ŭ	Polarity Vertical	Detector PK
	IO. [MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	-	
	NO. [MHz] 1 1155.687	[dBµV/m] 35.92	[dB] -6.30	[dBµV/m] 29.62	[dBµV/m] 74.00	[dB] 44.38	Vertical	PK
	IO.         [MHz]           1         1155.687           2         3101.781	[dBµV/m] 35.92 34.91	[dB] -6.30 0.33	[dBµV/m] 29.62 35.24	[dBµV/m] 74.00 74.00	[dB] 44.38 38.76	Vertical Vertical	PK PK
	IO.         [MHz]           1         1155.687           2         3101.781           3         4660.125	[dBµV/m] 35.92 34.91 32.71 32.16	[dB] -6.30 0.33 6.14	[dBµV/m] 29.62 35.24 38.85 45.36	[dBµV/m] 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64	Vertical Vertical Vertical	PK PK PK
	IO.         [MHz]           1         1155.687           2         3101.781           3         4660.125	[dBµV/m] 35.92 34.91 32.71 32.16 802.11	[dB] -6.30 0.33 6.14 13.20	[dBµV/m] 29.62 35.24 38.85 45.36	[dBµV/m] 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64	Vertical Vertical Vertical Vertical	PK PK PK
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 uspected Data Freq.	[dBµV/m] 35.92 34.91 32.71 32.16 802.11	[dB] -6.30 0.33 6.14 13.20	[dBµV/m] 29.62 35.24 38.85 45.36	[dBµV/m] 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64	Vertical Vertical Vertical Vertical CH09	РК РК РК РК
pe Si	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 uspected Data	[dBµV/m] 35.92 34.91 32.71 32.16 802.11 List	[dB] -6.30 0.33 6.14 13.20 1n(HT40)	[dBµV/m] 29.62 35.24 38.85 45.36	[dBµV/m] 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64	Vertical Vertical Vertical Vertical	PK PK PK
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 USPECTED Data NO. Freq. [MHz]	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 List Reading [dBµV/m]	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB]	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m]	[dBµV/m] 74.00 74.00 74.00 Test channel Limit [dBµV/m]	[dB] 44.38 38.76 35.15 28.64 Margin [dB]	Vertical Vertical Vertical Vertical CH09	РК РК РК РК
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 4 6798.625 4 Freq. IO. Freq. [MHz] 1 1245.281	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 List Reading [dBµV/m] 35.28	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor	[dBµV/m] 29.62 35.24 38.85 45.36	[dBµV/m] 74.00 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43	Vertical Vertical Vertical Vertical CH09 Polarity	PK PK PK PK Detector PK
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 4 6798.625 4 Freq. [MHz] 1 1245.281	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 List Reading [dBµV/m]	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71	[dBµV/m] 29.62 35.24 38.85 45.36	[dBµV/m] 74.00 74.00 74.00 Test channel Limit [dBµV/m]	[dB] 44.38 38.76 35.15 28.64 Margin [dB]	Vertical Vertical Vertical Vertical CH09 Polarity Horizontal	PK PK PK PK
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 uspected Data NO. Freq. [MHz] 1 1245.281 2 3200.187	[dBµV/m] 35.92 34.91 32.71 32.16 802.11 List Reading [dBµV/m] 35.28 34.71	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55	[dBμV/m] 74.00 74.00 74.00 74.00 Test channel Limit [dBμV/m] 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45	Vertical Vertical Vertical Vertical CH09 Polarity Horizontal Horizontal	PK PK PK PK Detector PK PK
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 4 6798.625 4 6798.625 4 6798.625 4 7384.656	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 <sup>1</sup> List Reading [dBµV/m] 35.28 34.71 30.88 31.70	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55 37.95	[dBµV/m] 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05	Vertical Vertical Vertical Vertical Vertical Polarity Horizontal Horizontal Horizontal	PK PK PK PK Detector PK PK PK
	NO.         [MHz]           1         1155.687           2         3101.781           3         4660.125           4         6798.625             uspected Data           IO.         Freq.           IQ.         Freq.           2         3200.187           3         4818.750           4         7384.656	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 List Reading [dBµV/m] 35.28 34.71 30.88 31.70 List	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07 15.32	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55 37.95 47.02	[dBµV/m] 74.00 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05 26.98	Vertical Vertical Vertical Vertical Vertical Polarity Horizontal Horizontal Horizontal	PK PK PK PK Detector PK PK PK
	NO.         [MHz]           1         1155.687           2         3101.781           3         4660.125           4         6798.625             uspected Data           IO.         Freq.           IO.         [MHz]           1         1245.281           2         3200.187           3         4818.750           4         7384.656	[dBµV/m] 35.92 34.91 32.71 32.16 802.11 List Reading [dBµV/m] 35.28 34.71 30.88 31.70 List Reading	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55 37.95	[dBµV/m] 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05	Vertical Vertical Vertical Vertical <b>CH09</b> Polarity Horizontal Horizontal Horizontal	PK PK PK PK Detector PK PK PK
	NO.         [MHz]           1         1155.687           2         3101.781           3         4660.125           4         6798.625             uspected Data           IO.         Freq.           IQ.         Freq.           2         3200.187           3         4818.750           4         7384.656	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 List Reading [dBµV/m] 35.28 34.71 30.88 31.70 List	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07 15.32	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55 37.95 47.02	[dBµV/m] 74.00 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05 26.98	Vertical Vertical Vertical Vertical Vertical Polarity Horizontal Horizontal Horizontal	PK PK PK PK Detector PK PK PK
	NO. [MHz] 1 1155.687 2 3101.781 3 4660.125 4 6798.625 uspected Data NO. Freq. [MHz] 1 1245.281 2 3200.187 3 4818.750 4 7384.656 uspected Data NO. Freq. 1 1245.281 2 3200.187 3 4818.750 4 7384.656	[dBµV/m] 35.92 34.91 32.71 32.16 802.11 List Reading [dBµV/m] 35.28 34.71 30.88 31.70 List Reading	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07 15.32 Factor	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55 37.95 47.02 Level	[dBµV/m] 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00 74.00 74.00 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05 26.98 Margin	Vertical Vertical Vertical Vertical <b>CH09</b> Polarity Horizontal Horizontal Horizontal	PK PK PK PK Detector PK PK PK
	NO.         [MHz]           1         1155.687           2         3101.781           3         4660.125           4         6798.625           uspected Data           IO.         Freq. [MHz]           1         1245.281           2         3200.187           3         4818.750           4         7384.656           uspected Data           NO.         Freq. [MHz]           1         1245.281           2         3200.187           3         4818.750           4         7384.656           uspected Data           NO.         Freq. [MHz]           1         1190.937           2         3219.281	[dBµV/m] 35.92 34.91 32.71 32.16 802.1 <sup>1</sup> List Reading [dBµV/m] 35.28 34.71 30.88 31.70 List Reading [dBµV/m]	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07 15.32 Factor [dB] -5.93 0.61	[dBμV/m] 29.62 35.24 38.85 45.36 Level [dBμV/m] 29.57 35.55 37.95 47.02 Level [dBμV/m]	[dBμV/m] 74.00 74.00 74.00 Test channel Limit [dBμV/m] 74.00 74.00 74.00 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05 26.98 Margin [dB]	Vertical Vertical Vertical Vertical Vertical CH09 Polarity Horizontal Horizontal Horizontal Horizontal	PK PK PK PK PK Detector PK PK PK PK
	NO.         [MHz]           1         1155.687           2         3101.781           3         4660.125           4         6798.625           uspected Data           IO.         Freq. [MHz]           1         1245.281           2         3200.187           3         4818.750           4         7384.656           uspected Data           NO.         Freq. [MHz]           1         1245.281           2         3200.187           3         4818.750           4         7384.656           uspected Data           NO.         Freq. [MHz]           1         1190.937	[dBµV/m] 35.92 34.91 32.71 32.16 802.11 Elist Reading [dBµV/m] 35.28 34.71 30.88 31.70 List Reading [dBµV/m] 36.14	[dB] -6.30 0.33 6.14 13.20 1n(HT40) Factor [dB] -5.71 0.84 7.07 15.32 Factor [dB] Factor [dB] -5.93	[dBµV/m] 29.62 35.24 38.85 45.36 Level [dBµV/m] 29.57 35.55 37.95 47.02 Level [dBµV/m] 30.21	[dBµV/m] 74.00 74.00 74.00 74.00 Test channel Limit [dBµV/m] 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	[dB] 44.38 38.76 35.15 28.64 Margin [dB] 44.43 38.45 36.05 26.98 Margin [dB] 43.79	Vertical Vertical Vertical Vertical CH09 Polarity Horizontal Horizontal Horizontal Horizontal Polarity Vertical	PK PK PK PK PK Detector PK PK PK Detector

## 6. TEST SETUP PHOTOS

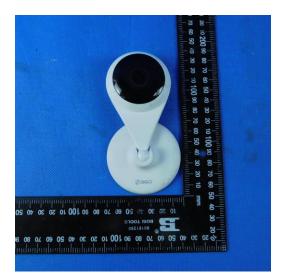
## Radiated Emission

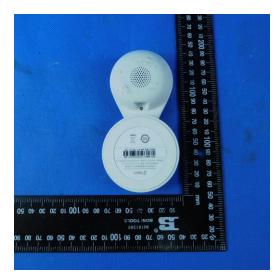




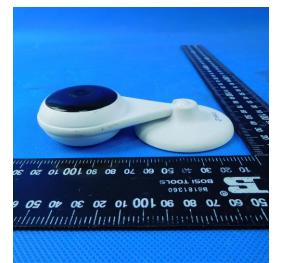
## 7. EXTERANAL AND INTERNAL PHOTOS

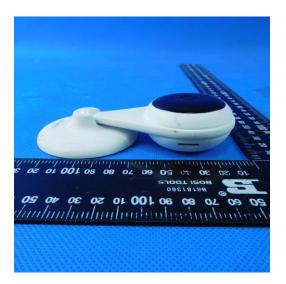


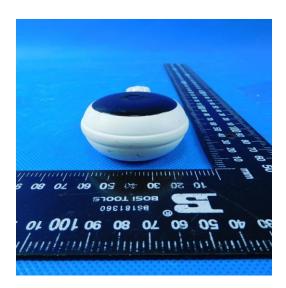




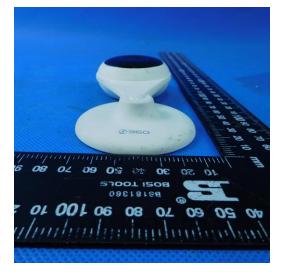
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Shenzhen Huatongwei International Inspection Co., Ltd.



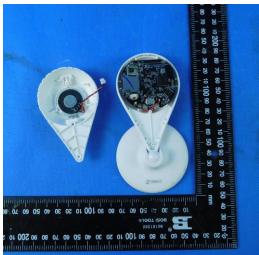
### Adapter 1:

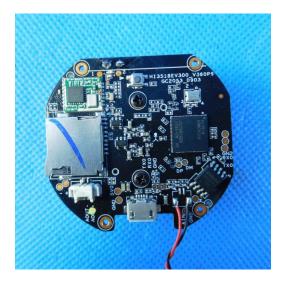


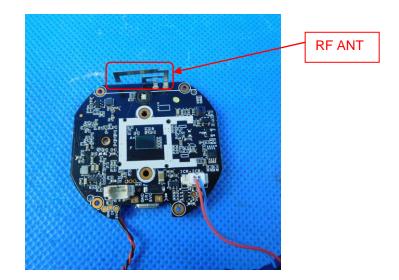
## Adapter 2:



### Internal Photos







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## 8. APPENDIX REPORT