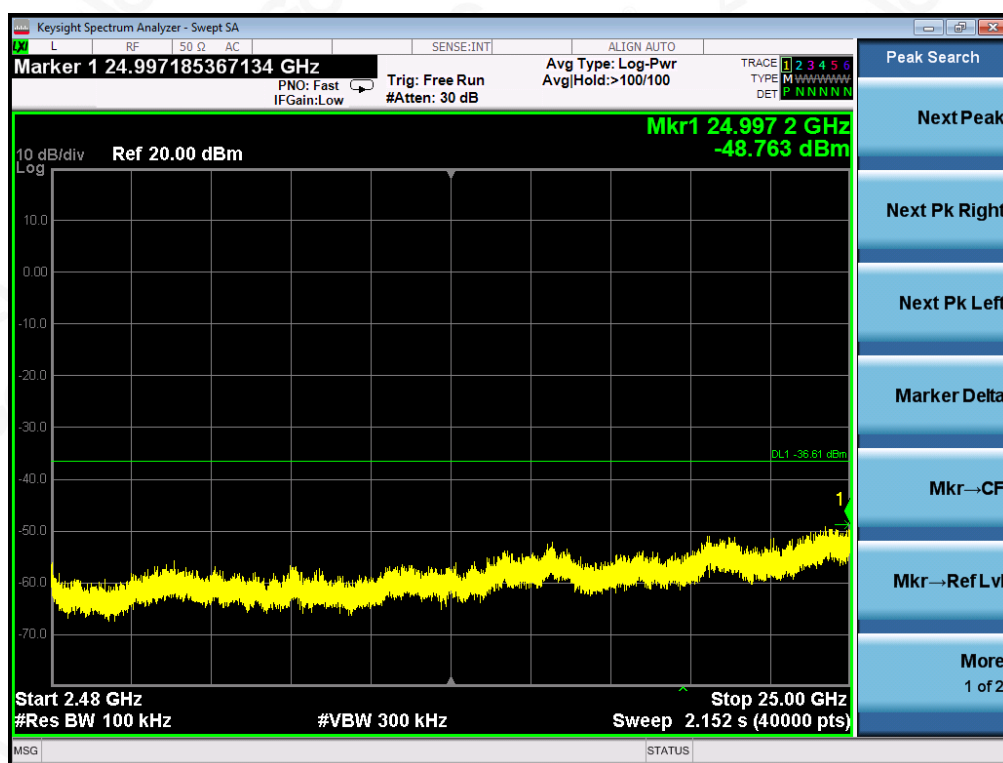
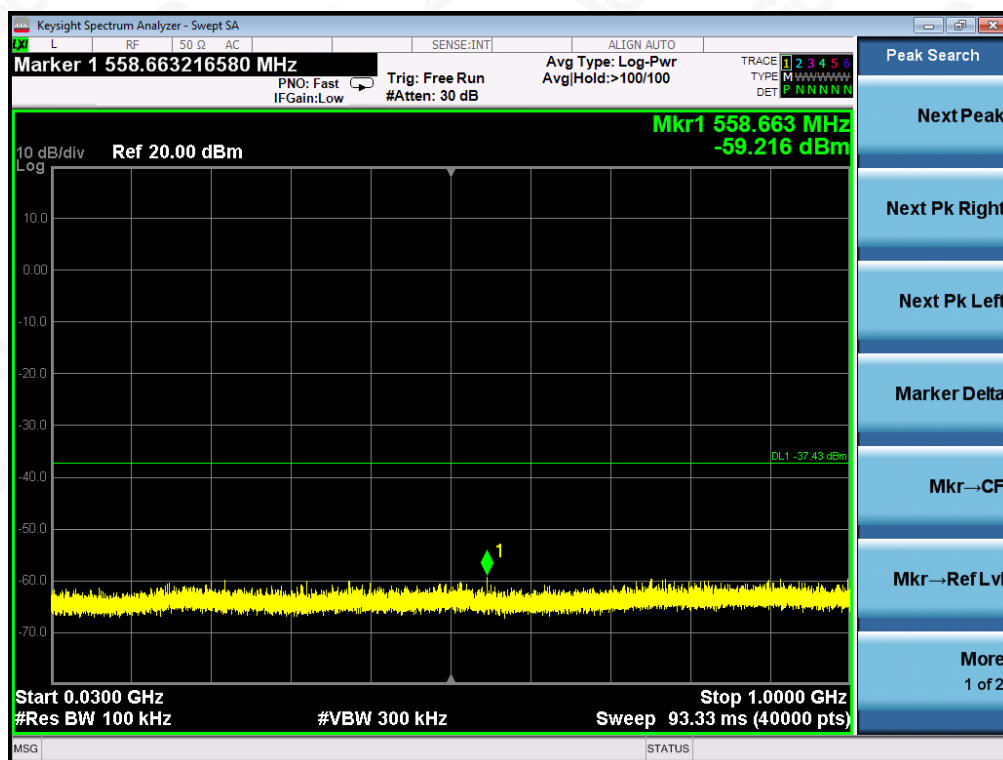


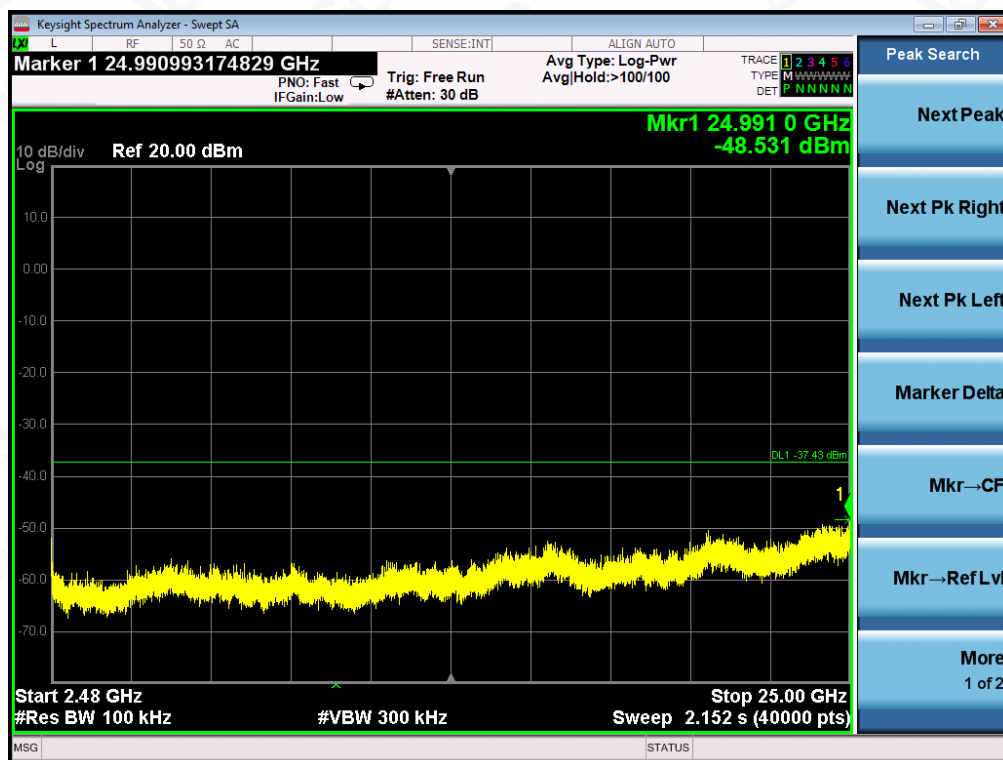
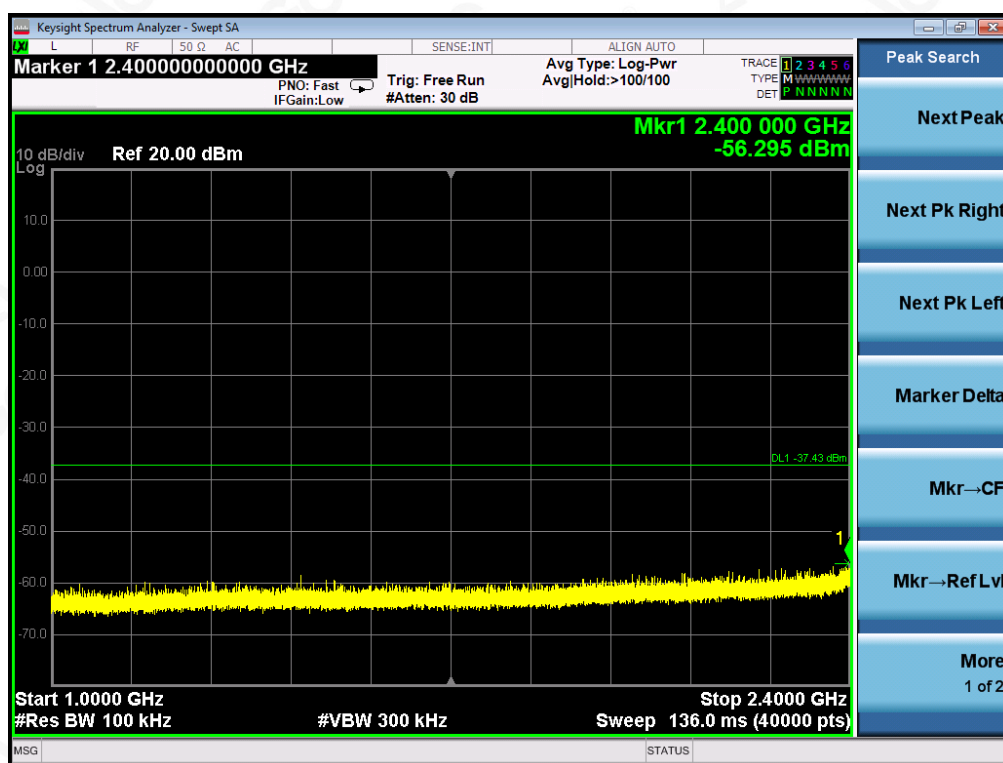


TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE
OF 802.11n40 FOR MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPS-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11b with data rate 1

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-1.559	8	Pass
Middle Channel	-1.021	8	Pass
High Channel	-1.015	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11g with data rate 6

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.648	8	Pass
Middle Channel	-7.033	8	Pass
High Channel	-7.715	8	Pass



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TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 20 with data rate 6.5

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.797	8	Pass
Middle Channel	-7.903	8	Pass
High Channel	-8.638	8	Pass

TEST ITEM	POWER SPECTRAL DENSITY
TEST MODE	802.11n 40 with data rate 13.5

Channel No.	Power density (dBm/20kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.473	8	Pass
Middle Channel	-11.276	8	Pass
High Channel	-11.671	8	Pass



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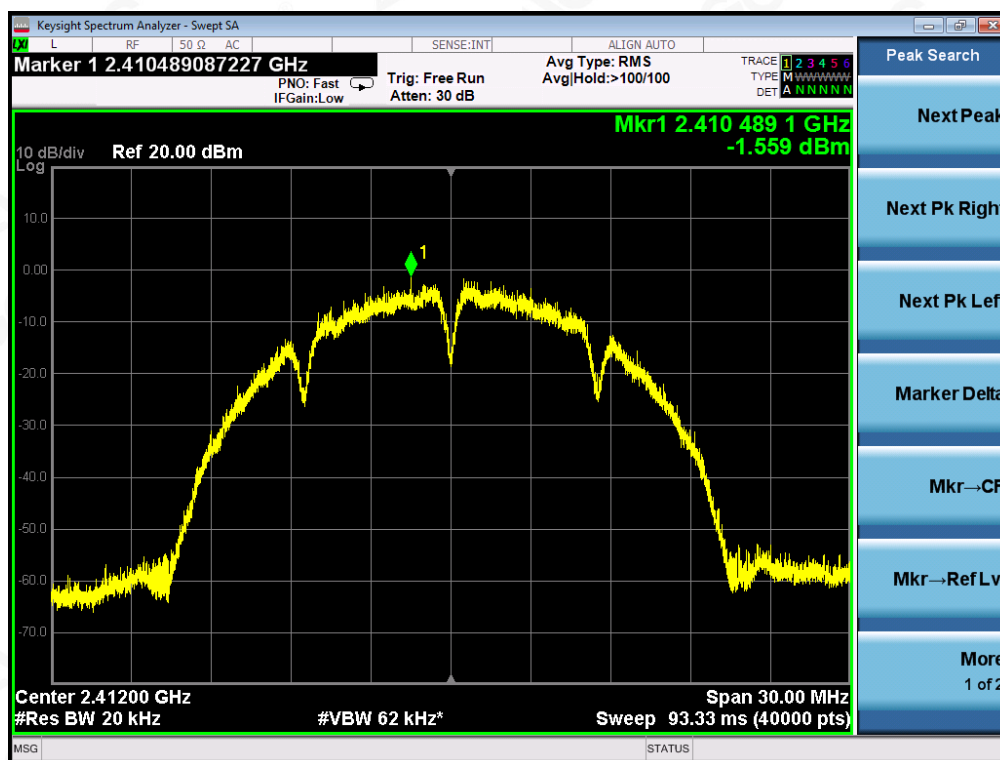
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

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802.11b TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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E-mail: aqc@aqc-cert.com

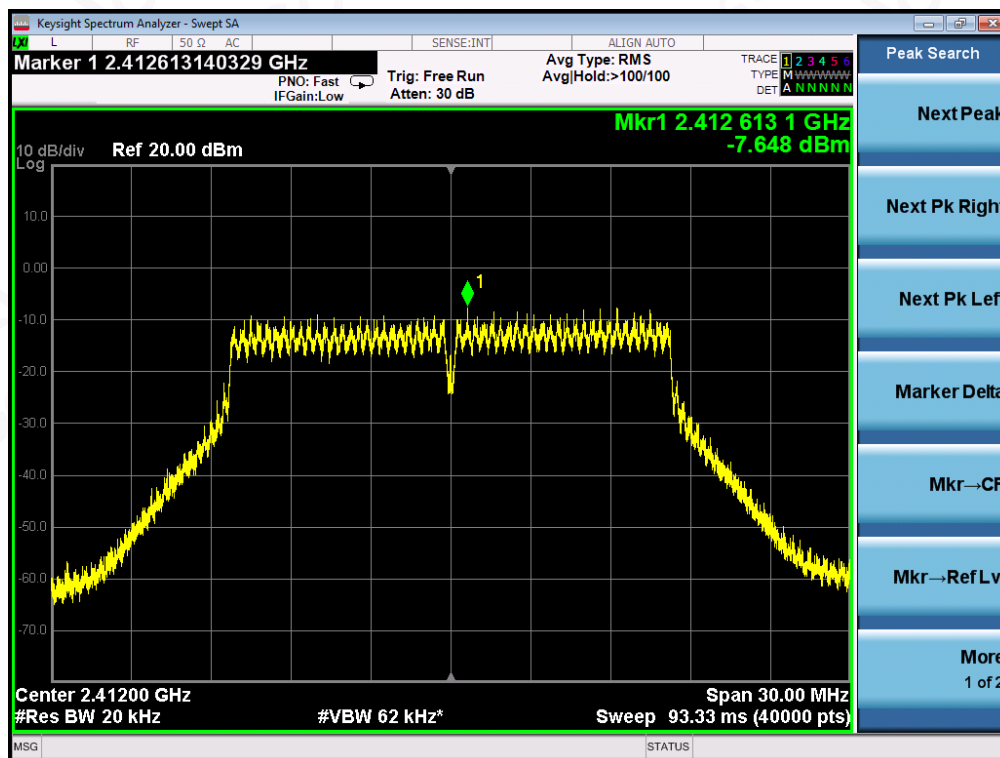
Service Hotline:400 089 2118

TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



802.11g TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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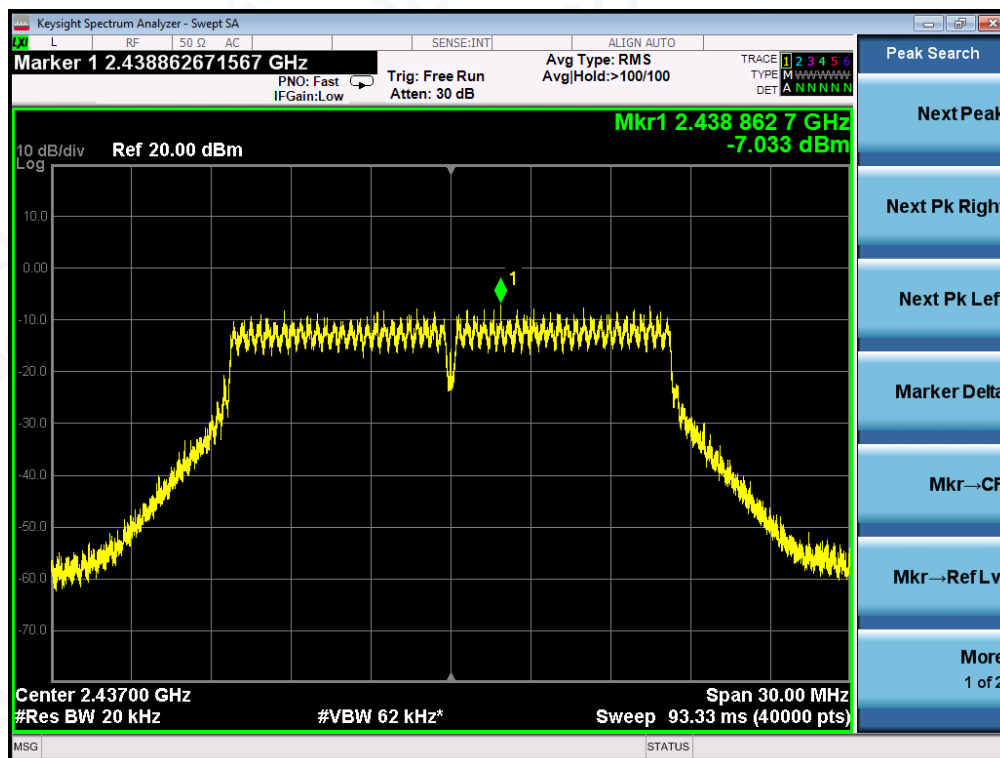
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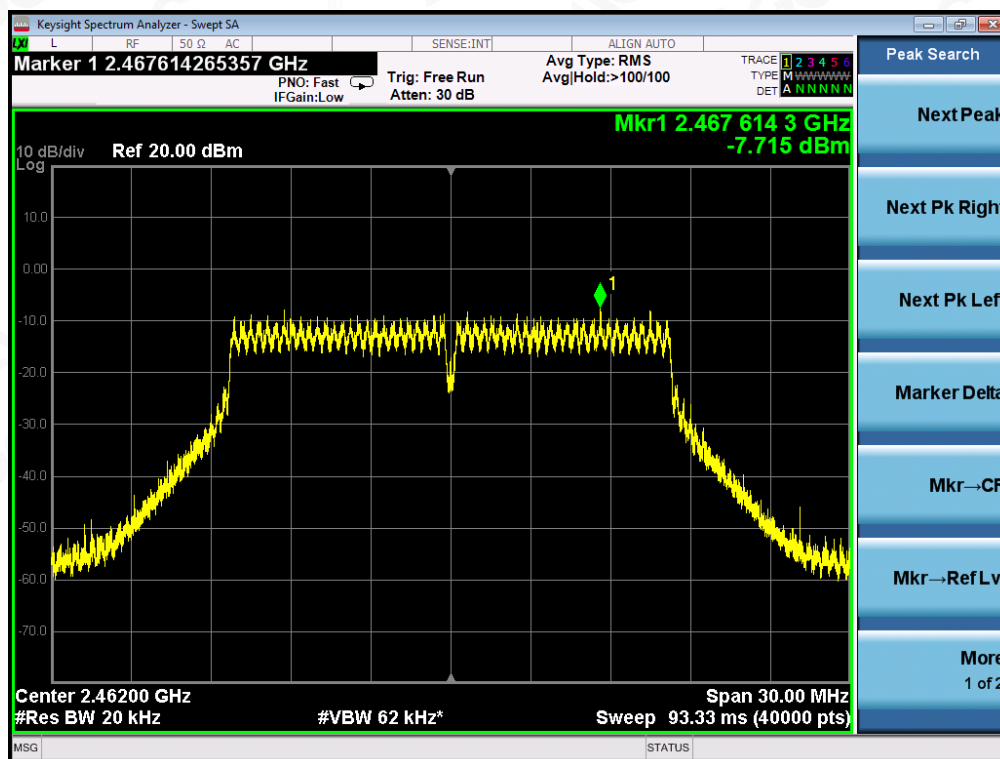
E-mail: agc@agc-cert.com

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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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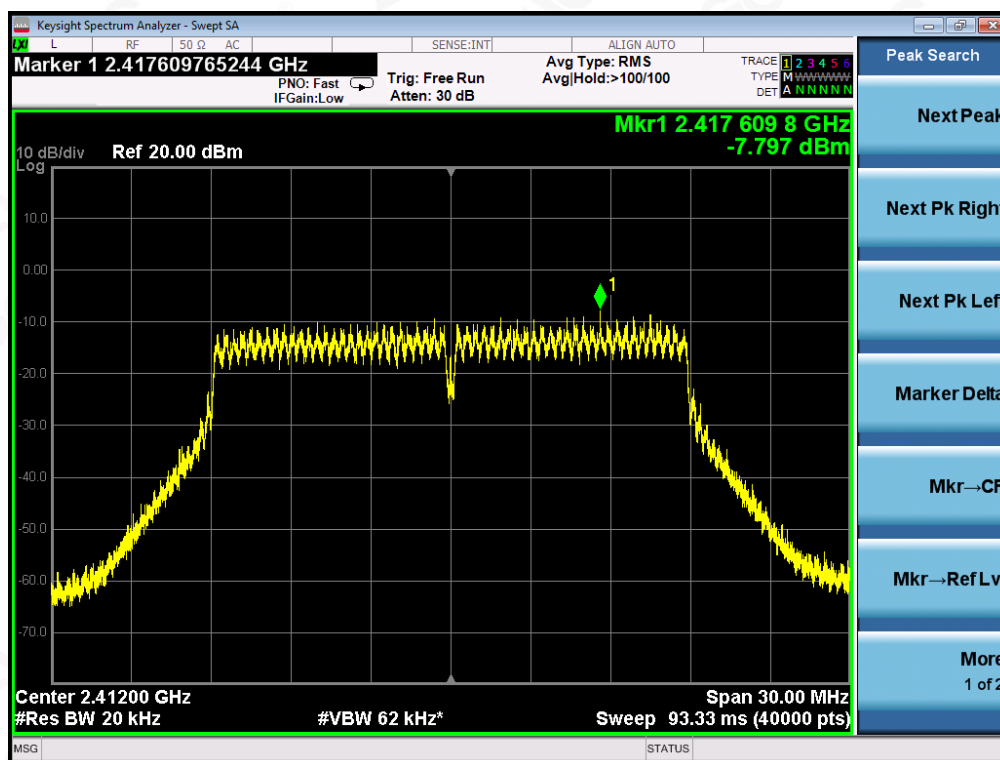
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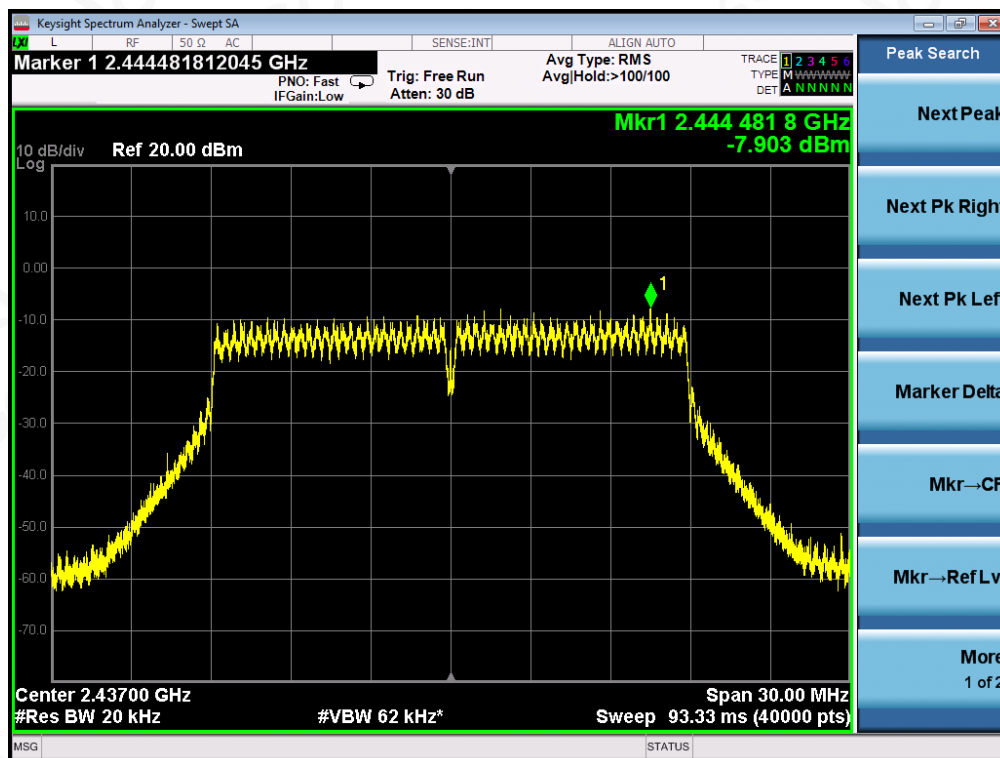
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802.11n 20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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Keysight Spectrum Analyzer - Swept SA

Marker 1 2.457609015225 GHz

PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB

Avg Type: RMS Avg/Hold: >100/100

TRACE 1 2 3 4 5 6
TYPE M
DET A N N N N N

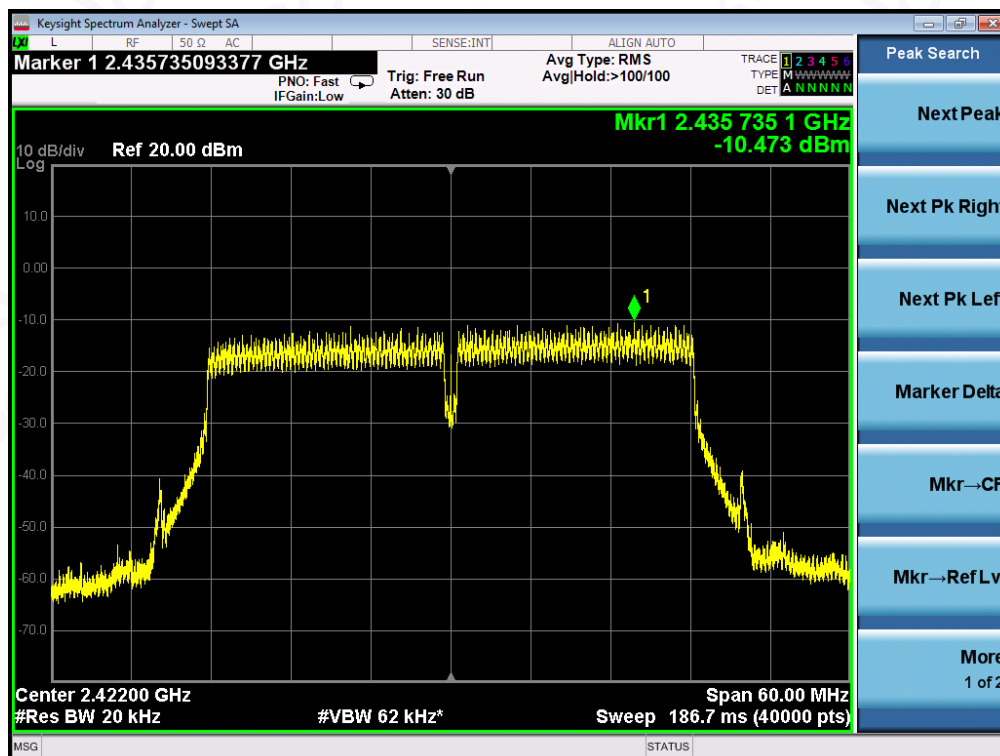
10 dB/div Log Ref 20.00 dBm

Mkr1 2.457 609 0 GHz
-8.638 dBm

Center 2.46200 GHz Span 30.00 MHz
#Res BW 20 kHz #VBW 62 kHz* Sweep 93.33 ms (40000 pts)

MSG STATUS

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



Keysight Spectrum Analyzer - Swept SA

Marker 1 2.451983124578 GHz

PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB

Avg Type: RMS Avg/Hold: >100/100

TRACE 1 2 3 4 5 6
TYPE M
DET A NNNNN

10 dB/div Log Ref 20.00 dBm

Mkr1 2.4519831 GHz -11.276 dBm

Center 2.43700 GHz Span 60.00 MHz
#Res BW 20 kHz #VBW 62 kHz* Sweep 186.7 ms (40000 pts)

MSG STATUS

Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→Chr
Mkr→Ref Lvl
More
1 of 2

Keysight Spectrum Analyzer - Swept SA

L RF 50 Ω AC SENSE:INT ALIGN: AUTO

Marker 1 2.447608640216 GHz PNO: Fast IFGain:Low Trig: Free Run Avg Type: RMS Avg/Hold: >100/100

TRACE 1 2 3 4 5 6 TYPE M N N N N N N N DET A N N N N N

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr → CR

Mkr → Ref Lvl

More

1 of 2

10 dB/div Log Ref 20.00 dBm

Mkr1 2.447 608 6 GHz -11.671 dBm

Center 2.45200 GHz Span 60.00 MHz

#Res BW 20 kHz #VBW 62 kHz* Sweep 186.7 ms (40000 pts)

MSG STATUS



11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.



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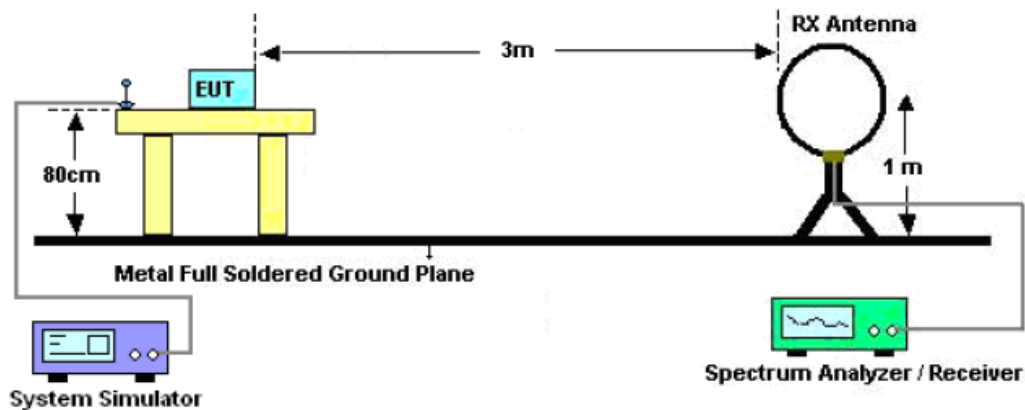
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

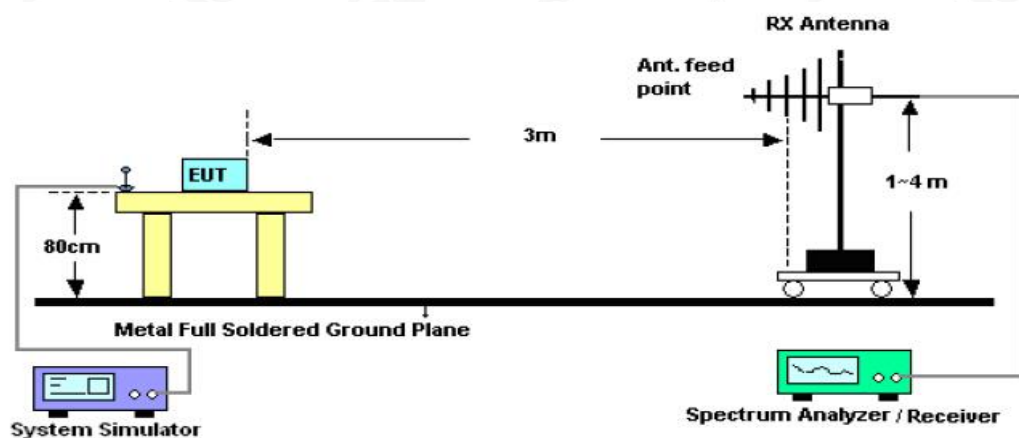
Service Hotline:400 089 2118

11.2. TEST SETUP

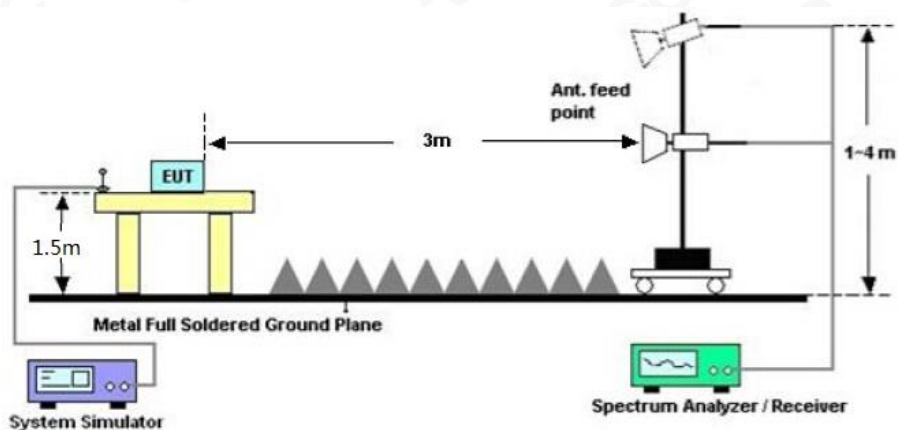
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



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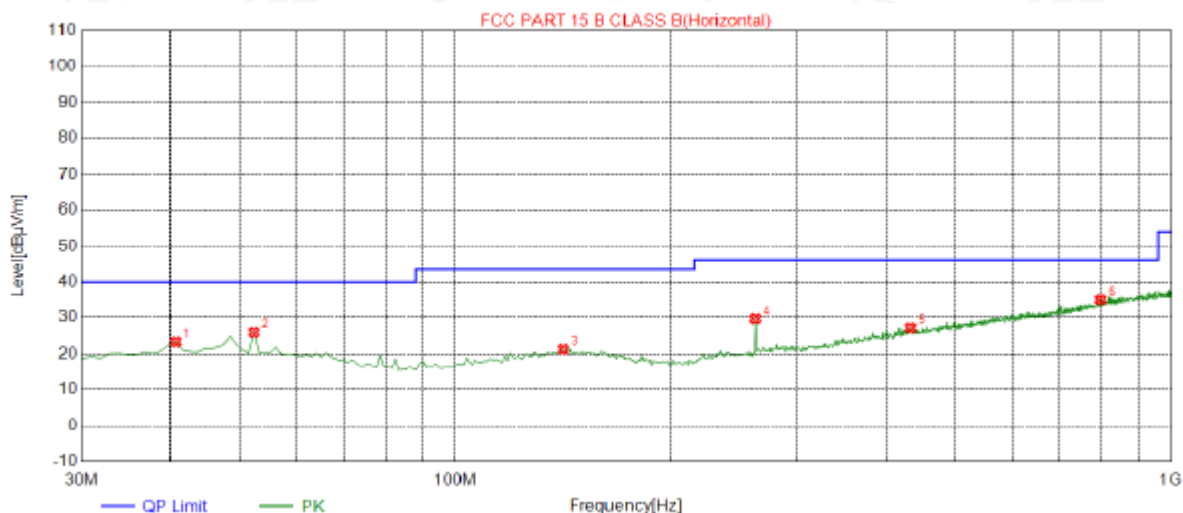
Tel: +86-755 2523 4088

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Service Hotline:400 089 2118

RADIATED EMISSION BELOW 1GHZ

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	23.33	14.91	40.00	16.67	100	69	Horizontal
2	52.3100	25.93	14.49	40.00	14.07	150	2	Horizontal
3	141.550	21.30	14.88	43.50	22.20	100	172	Horizontal
4	262.800	29.68	14.80	46.00	16.32	150	184	Horizontal
5	432.550	27.16	20.59	46.00	18.84	200	65	Horizontal
6	798.240	35.14	28.47	46.00	10.86	200	360	Horizontal

RESULT: PASS



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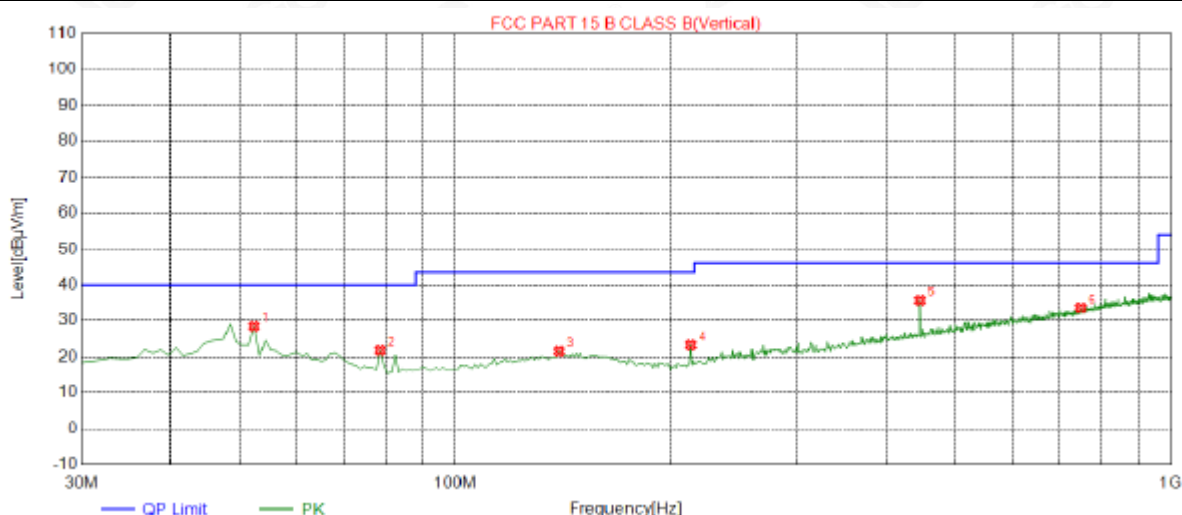
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	28.39	14.49	40.00	11.61	100	311	Vertical
2	78.5000	21.83	10.46	40.00	18.17	100	291	Vertical
3	139.610	21.57	14.85	43.50	21.93	200	130	Vertical
4	213.330	23.32	12.86	43.50	20.18	200	235	Vertical
5	446.130	35.76	20.91	46.00	10.24	100	190	Vertical
6	748.770	33.62	27.20	46.00	12.38	200	81	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.042	48.02	3.72	51.74	74.00	-22.26	peak
4824.042	44.89	3.72	48.61	54.00	-5.39	AVG
7236.063	37.63	8.15	45.78	74.00	-28.22	peak
7236.063	32.85	8.15	41.00	54.00	-13.00	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.042	49.02	3.72	52.74	74.00	-21.26	peak
4824.042	44.12	3.72	47.84	54.00	-6.16	AVG
7236.063	38.83	8.15	46.98	74.00	-27.02	peak
7236.063	36.59	8.15	44.74	54.00	-9.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.042	48.00	3.75	51.75	74.00	-22.26	peak
4874.042	42.83	3.75	46.58	54.00	-7.42	AVG
7311.063	40.54	8.16	48.70	74.00	-25.30	peak
7311.063	38.50	8.16	46.66	54.00	-7.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.042	47.72	3.75	51.47	74.00	-22.53	peak
4874.042	44.29	3.75	48.04	54.00	-5.96	AVG
7311.063	41.56	8.16	49.72	74.00	-24.28	peak
7311.063	37.89	8.16	46.05	54.00	-7.95	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



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EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.042	46.93	3.81	50.74	74.00	-23.26	peak
4924.042	44.60	3.81	48.41	54.00	-5.59	AVG
7386.063	38.96	8.19	47.15	74.00	-26.85	peak
7386.063	37.39	8.19	45.58	54.00	-8.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHZ	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.042	47.91	3.81	51.72	74.00	-22.28	peak
4924.042	44.80	3.81	48.61	54.00	-5.39	AVG
7386.063	39.42	8.19	47.61	74.00	-26.39	peak
7386.063	37.58	8.19	45.77	54.00	-8.23	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.



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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

12.2. TEST SET-UP

same as 11.2

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



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12.3. TEST RESULT

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
Xixiang, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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E-mail: agc@agc-cert.com

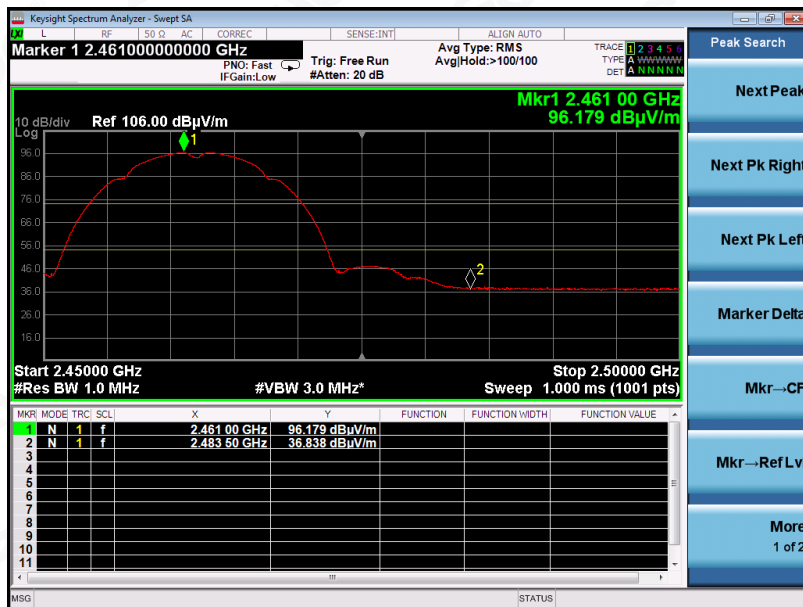
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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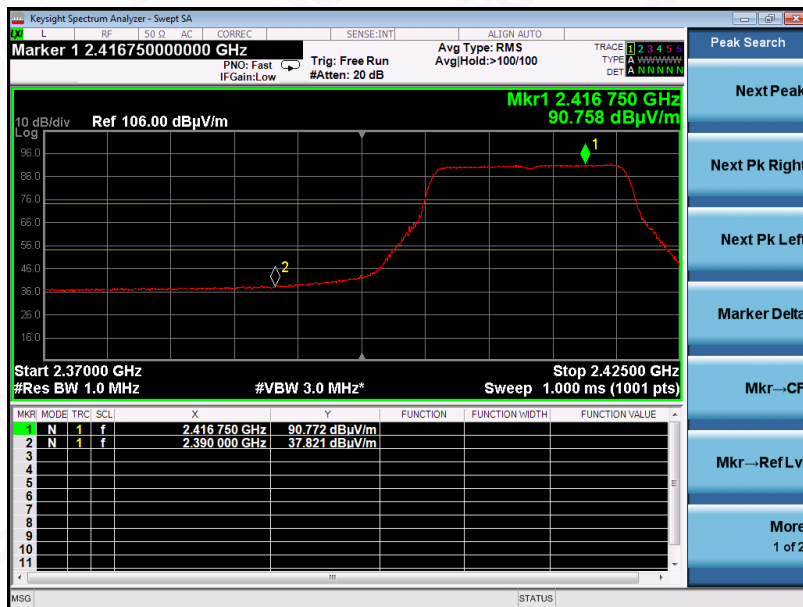
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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E-mail: agc@agc-cert.com

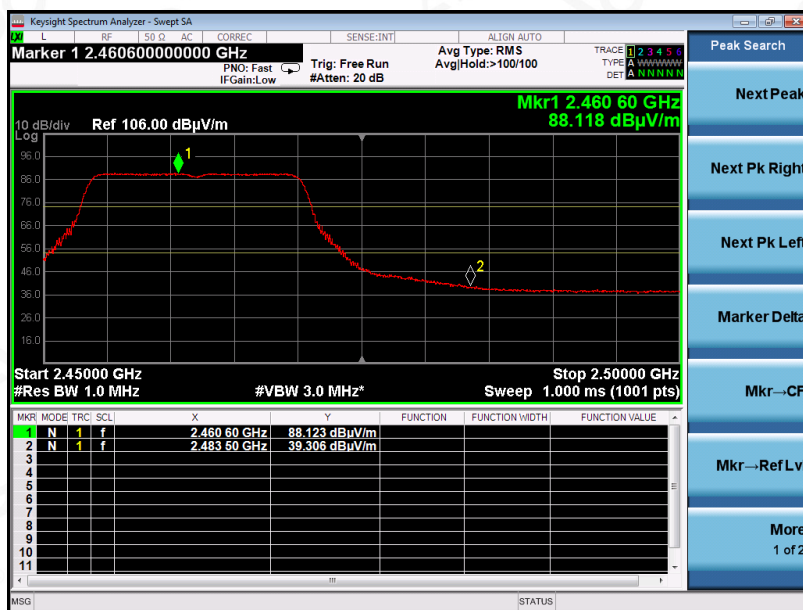
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



Attestation of Global Compliance(Shenzhen)Co.,Ltd.

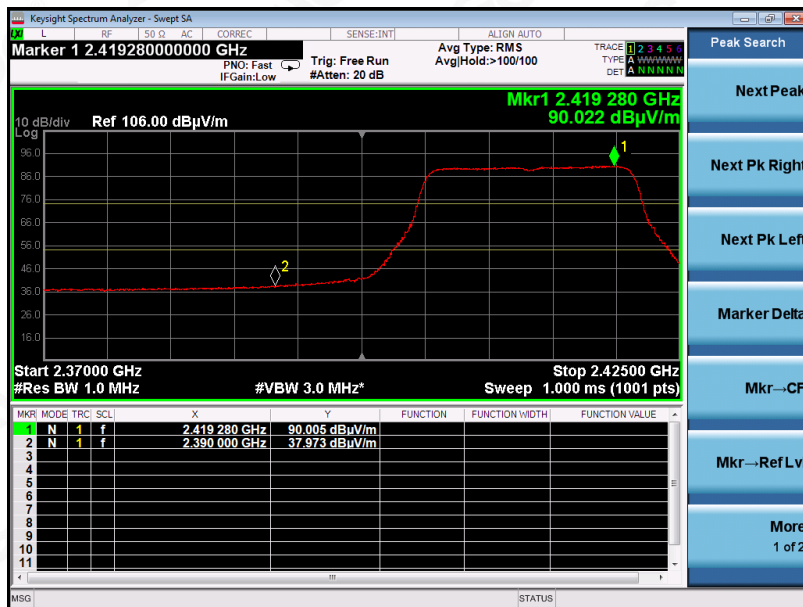
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
Xixiang, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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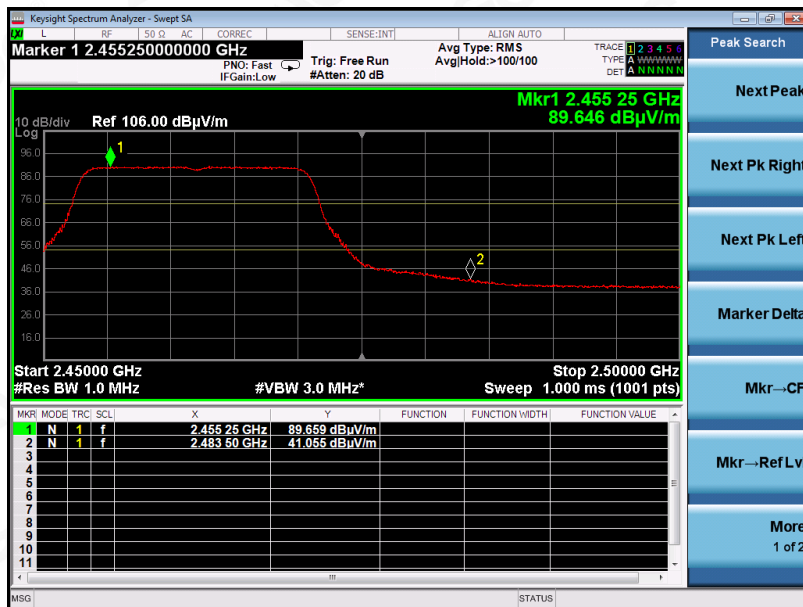
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2462MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

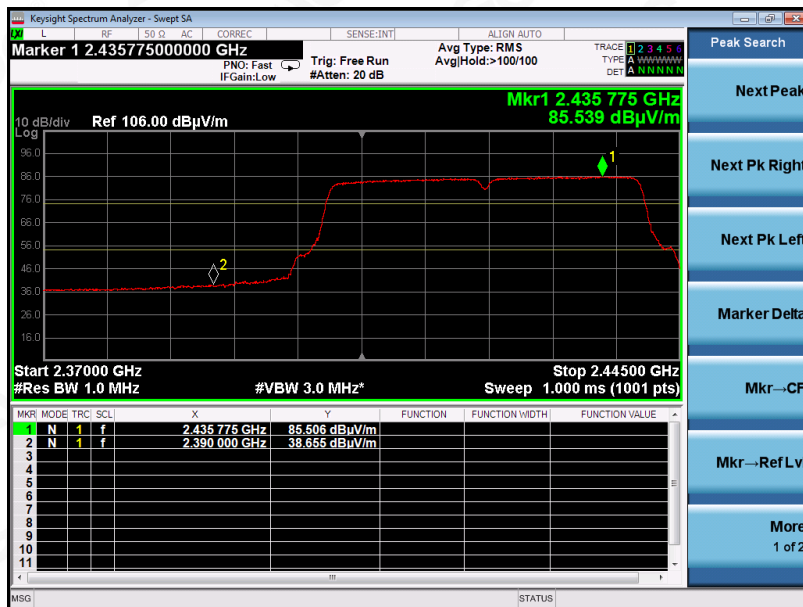
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2422MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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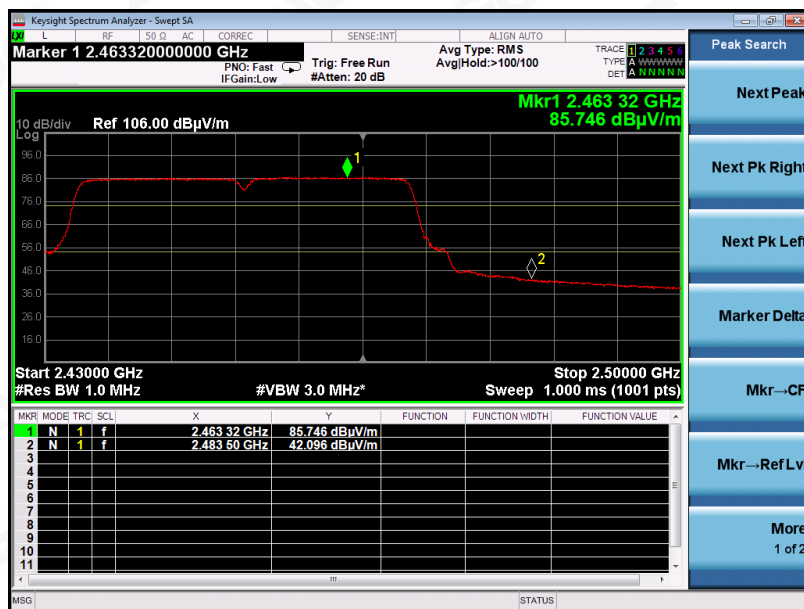
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40with data rate 13.5 2452MHZ	Antenna	Horizontal

PK



AV



RESULT: PASS



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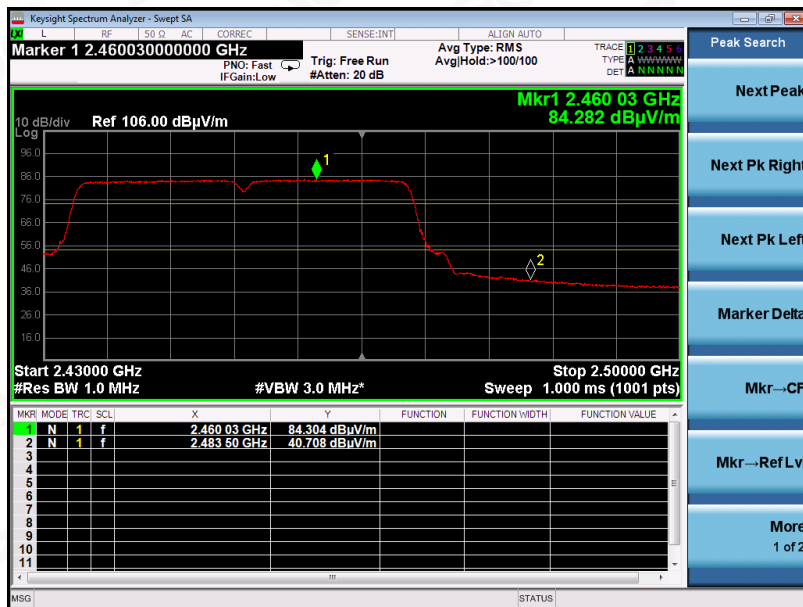
Service Hotline:400 089 2118

EUT	HD WiFi Camera	Model Name	T5810HCA
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 40 with data rate 13.5 2452MHZ	Antenna	Vertical

PK



AV



RESULT: PASS



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13. FCC LINE CONDUCTED EMISSION TEST

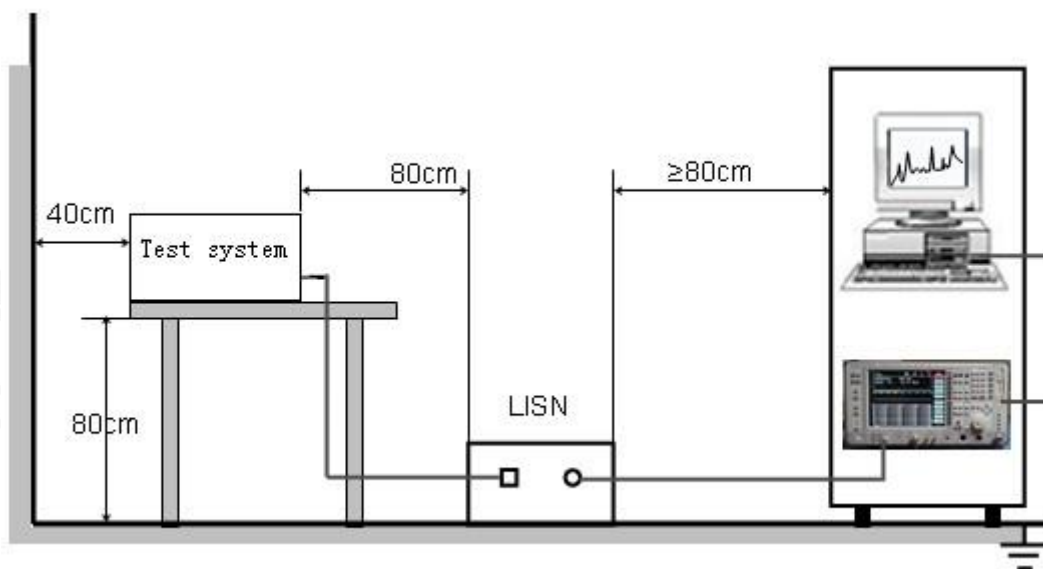
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

13.2. BLOCK DIAGRAM OF TEST SETUP



13.3. PROCEDURE OF LINE CONDUCTED EMISSION TEST

- (1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- (2) Support equipment, if needed, was placed as per ANSI C63.10.
- (3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- (4) The EUT received AC120V/60Hz power from a LISN.
- (5) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- (6) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- (7) During the above scans, the emissions were maximized by cable manipulation.
- (8) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions.
- (9) Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.



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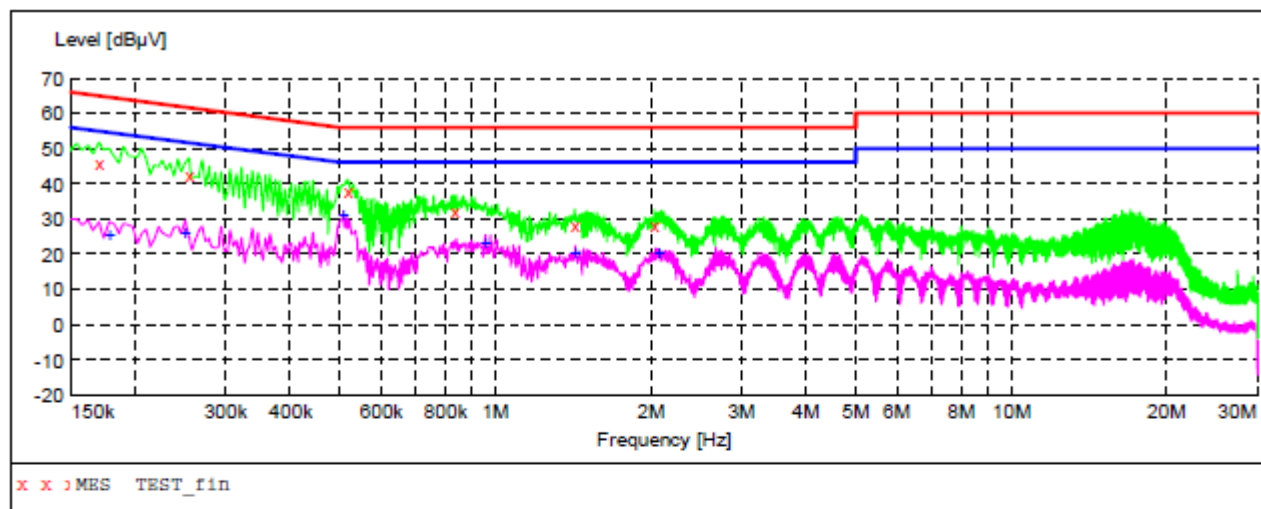
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

13.4. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L1



MEASUREMENT RESULT: "TEST_fin"

7/5/2019 9:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.170000	46.30	10.8	65	18.7	QP	L1	FLO
0.254000	42.50	10.9	62	19.1	QP	L1	FLO
0.518000	38.10	11.1	56	17.9	QP	L1	FLO
0.830000	32.50	10.9	56	23.5	QP	L1	FLO
1.422000	28.40	11.5	56	27.6	QP	L1	FLO
2.030000	28.40	11.5	56	27.6	QP	L1	FLO

MEASUREMENT RESULT: "TEST_fin2"

7/5/2019 9:42PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.178000	25.40	10.9	55	29.2	AV	L1	FLO
0.250000	26.00	10.9	52	25.8	AV	L1	FLO
0.506000	31.10	11.2	46	14.9	AV	L1	FLO
0.954000	23.10	11.3	46	22.9	AV	L1	FLO
1.430000	20.40	11.5	46	25.6	AV	L1	FLO
2.074000	20.50	11.5	46	25.5	AV	L1	FLO

RESULT: PASS



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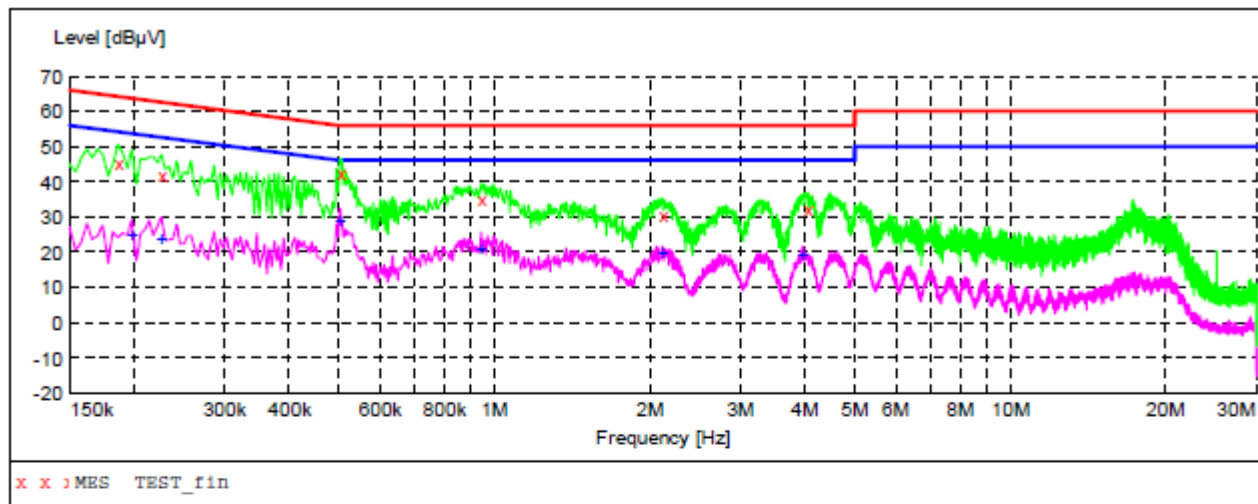
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "TEST_fin"

7/5/2019 9:46PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.186000	45.60	10.9	64	18.6	QP	N	FLO
0.226000	42.10	10.9	63	20.5	QP	N	FLO
0.502000	42.90	11.2	56	13.1	QP	N	FLO
0.942000	35.00	11.3	56	21.0	QP	N	FLO
2.118000	30.60	11.5	56	25.4	QP	N	FLO
4.038000	32.50	11.6	56	23.5	QP	N	FLO

MEASUREMENT RESULT: "TEST_fin2"

7/5/2019 9:46PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.198000	25.10	10.9	54	28.6	AV	N	FLO
0.226000	24.00	10.9	53	28.6	AV	N	FLO
0.502000	29.00	11.2	46	17.0	AV	N	FLO
0.942000	21.10	11.3	46	24.9	AV	N	FLO
2.114000	19.90	11.5	46	26.1	AV	N	FLO
3.970000	19.20	11.6	46	26.8	AV	N	FLO



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Service Hotline:400 089 2118

APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ

