

FCC/IC - TEST REPORT

Report Number	:	68.760.14.226.01	Date of Issue:	<u>August 4, 2014</u>
Model	:	WAG 126 & WAG 127		
Product Type	:	Wireless audiogateway with wireless PTT for communication radios		
Applicant	:	Titan Communications systems Aps		
Address	:	Skovlytoften 26B, st. DK - 2840 Holte		
Manufacturer	:	Vintech Corporation		
Address	:	12B,Jinshun Building ,No.287, Ruyi Road ,Longgang District,		
		Shenzhen.		
Test Result	:	<input checked="" type="checkbox"/> Positive <input type="checkbox"/> Negative		
Total pages including Appendices	:	<u>37</u>		

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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P. R. China

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Test Site 2

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Bao'an District,
Shenzhen, P.R.C.

FCC Registration No.: 934118

Telephone: 86 755 3366 3308
Fax: 86 755 3366 3309

3 Description of the Equipment Under Test

Product: Wireless audiogateway with wireless PTT for communication radios

Model no.: WAG 126 & WAG 127

Series Models: UNI/M3/M4/M5/M10/**M12**/M15/H6/I3/N3

FCC ID: 2ACD5AIRCRYPT-WAG1

IC ID: NIL

Brand Name: PHILIPS

Options and accessories: NIL

Rating: DC5.0V supplied by Interphone

RF Transmission Frequency: 2402-2480MHz

No. of Operated Channel: 79

Modulation: GFSK, $\pi/4$ -DQPSK, 8DPSK

Duty Cycle: NIL

Antenna Type: Integral Antenna

Antenna Gain: 1.7dBi

Description of the EUT: The Equipment Under Test (EUT) is a Wireless audiogateway with wireless PTT for communication radios with Bluetooth 3.0+EDR function operating at 2.4GHz

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2013 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 3 December 2010	General Requirements and Information for the Certification of Radio Apparatus
RSS-210 Issue 8 December 2010	RSS-210 — Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure released by FCC on March 30, 2000 and C63.10 (2009).

5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C, RSS-Gen, RSS-210					
Test Condition			Pages	Test Site	Test Result
§15.207	RSS-GEN A7.2.4	Conducted emission AC power port	---	---	N/A
§15.247(b)(1)	RSS-210 A8.4	Conducted peak output power	10	Site 2	Pass
§15.247(a)(2)	RSS-210 A8.2(a)	6dB bandwidth	---	---	N/A
§15.247(a)(1)	RSS-210 A8.1(a) & RSSGEN 4.6.2	20dB bandwidth and 99% Occupied Bandwidth	12	Site 2	Pass
§15.247(a)(1)	RSS-210 A8.1(b)	Carrier frequency separation	17	Site 2	Pass
§15.247(a)(1)(iii)	RSS-210 A8.1(d)	Number of hopping frequencies	20	Site 2	Pass
§15.247(a)(1)(iii)	RSS-210 A8.1(c)	Dwell Time	22	Site 2	Pass
§15.247(e)	RSS-210 A8.2(b)	Power spectral density*	---	---	N/A
§15.247(d)	RSS-210 A8.5	Spurious RF conducted emissions	25	Site 2	Pass
§15.247(d)	RSS-210 A8.5	Band edge	29	Site 2	Pass
§15.247(d) & §15.209 &	RSS-210 2.5 & RSSGEN 7.2.5 & RSSGEN 6.1	Spurious radiated emissions for transmitter and receiver	32	Site 2	Pass
§15.203	RSSGEN 7.1.2	Antenna requirement	See note 2		Pass

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a permanently ceramic antenna, which gain is 1.7dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ACD5AIRCRYPT-WAG1, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules and RSS-210.

The model WAG126 &WAG127 and other models have the same PCB Layout, circuit theory and construction, so all the EMC requirements were applied on test model and other models are deemed to fulfill the relevant EMC requirements without further testing.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

The Equipment Under Test

- **Fulfills** the general approval requirements.

- **Does not** fulfill the general approval requirements.

Sample Received Date: May 21, 2014

Testing Start Date: May 26, 2014

Testing End Date: August 4, 2014

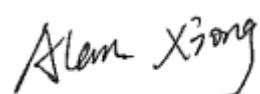
TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Reviewed by:

Prepared by:



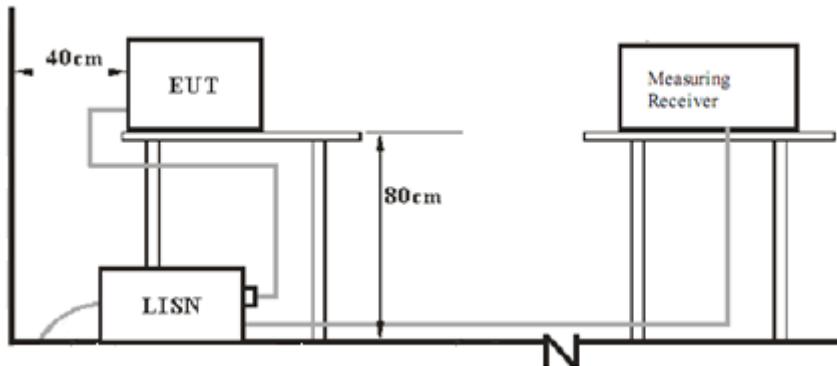
John Zhi
EMC Project Manager



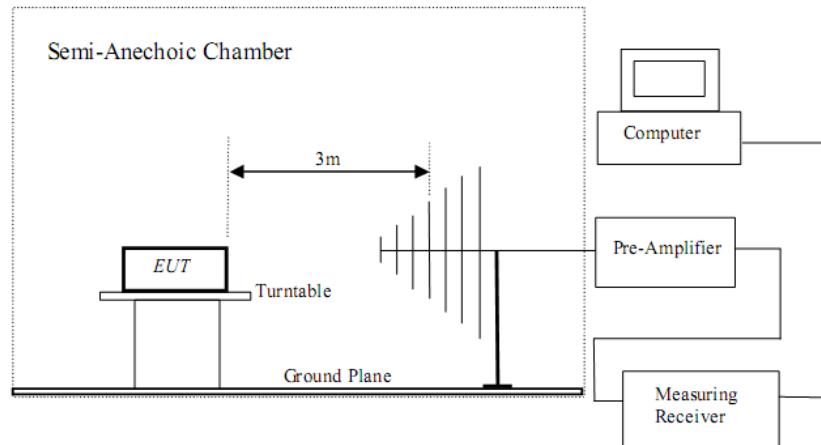
Alan Xiong
EMC Project Engineer

7 Test Setups

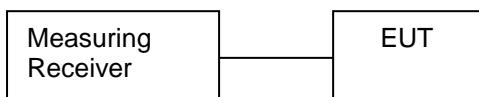
7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups



7.3 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
NoteBook	Lenovo	X200	---

Test software: CSR_Blue Test3, which used to control the EUT in continues transmitting mode

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

9 Technical Requirement

9.1 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW > the 20 dB bandwidth of the emission being measured, $VBW \geq RBW$,
Sweep = auto, Detector function = peak, Trace = max hold
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

Limits

According to §15.247 (b) (1) and RSS-210 A8.4, conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

Conducted peak output power

Bluetooth Mode GFSK modulation Test Result

Frequency MHz	Conducted Peak		Result
	Output Power	dBm	
Low channel 2402MHz	2.807		Pass
Middle channel 2441MHz	3.253		Pass
High channel 2480MHz	3.747		Pass

Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak		Result
	Output Power	dBm	
Low channel 2402MHz	1.908		Pass
Middle channel 2441MHz	2.361		Pass
High channel 2480MHz	2.637		Pass

9.2 20 dB bandwidth and 99% Occupied Bandwidth

Test Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Limit

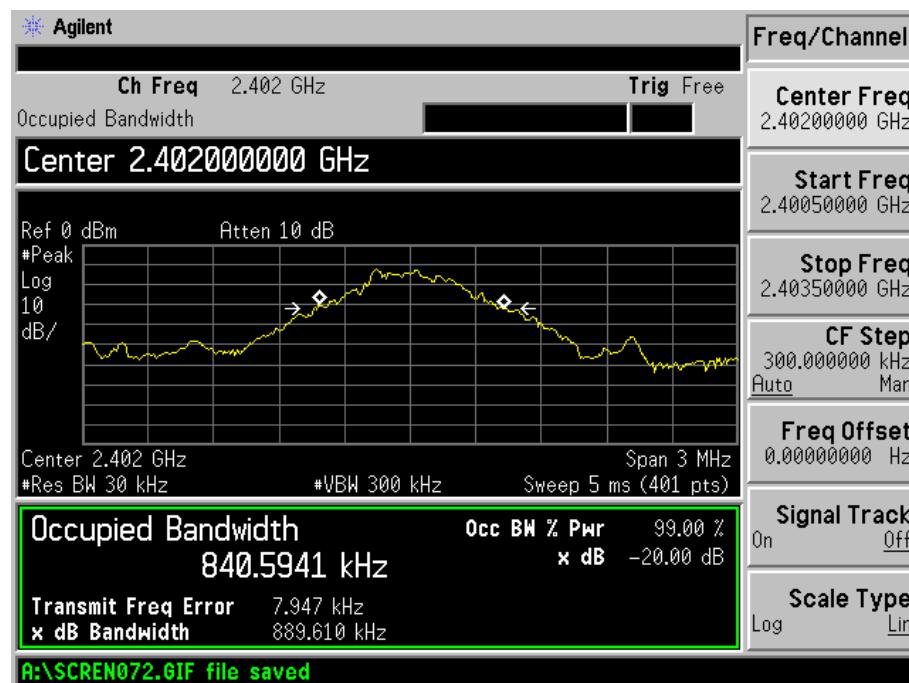
Limit [kHz]

N/A

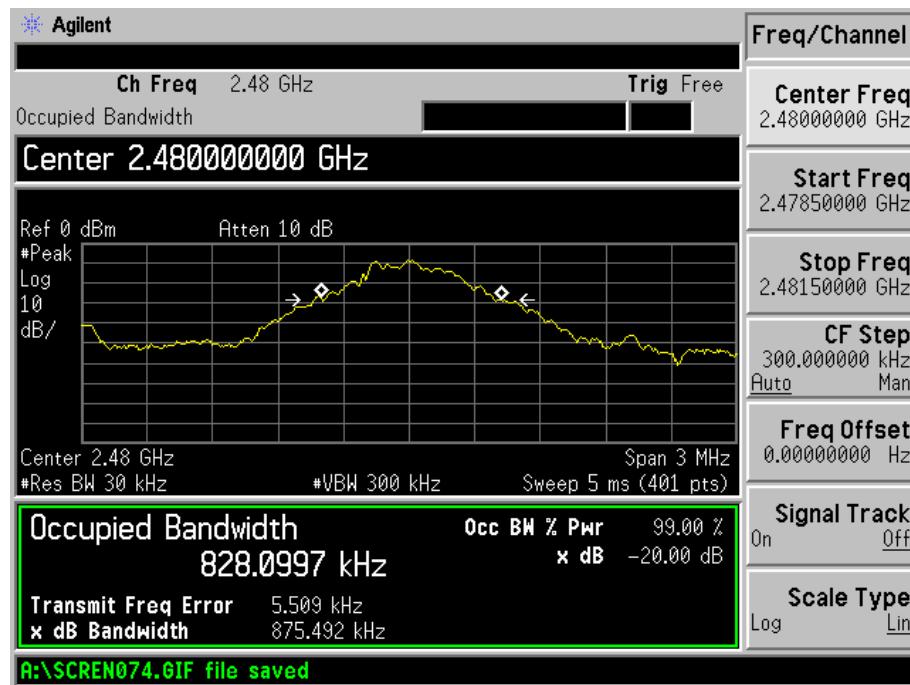
20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode GFSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	889.610	840.5941	--	Pass
2441	852.151	850.2774	--	Pass
2480	875.492	828.0997	--	Pass



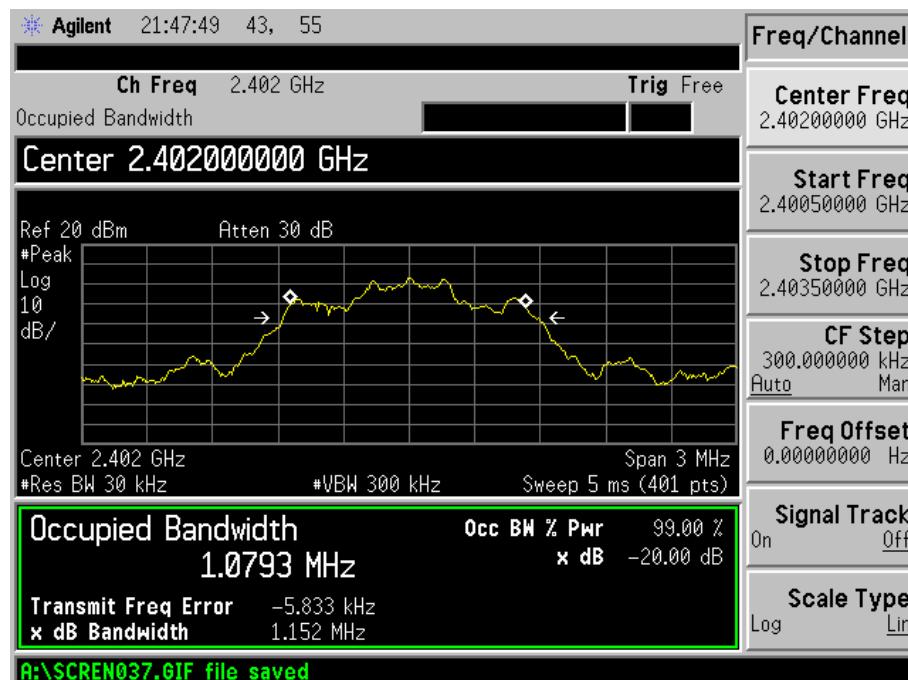
20 dB bandwidth and 99% Occupied Bandwidth

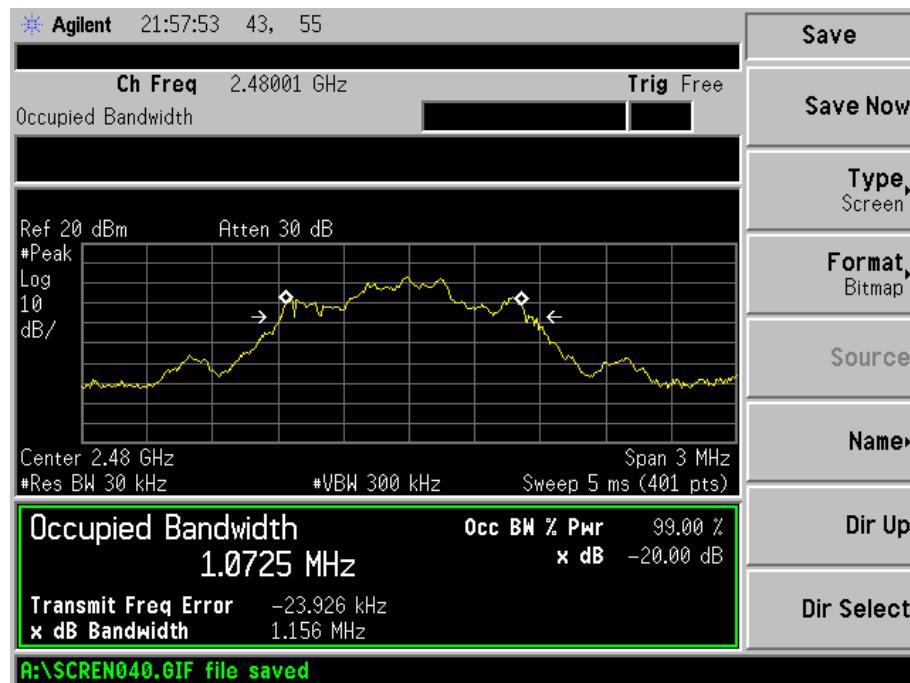
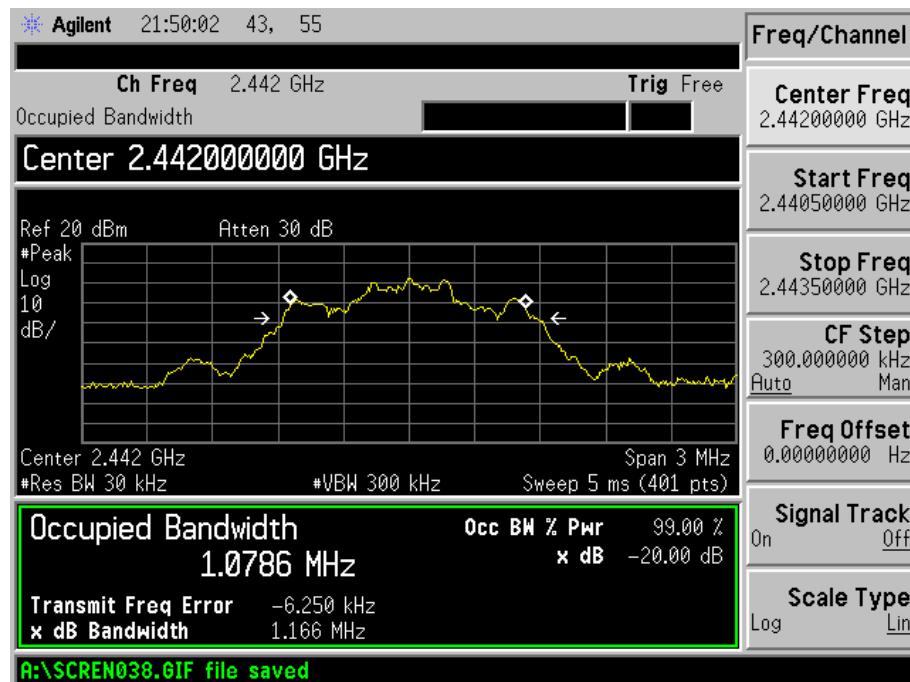


20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode 8DPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	1152	1079.3	--	Pass
2441	1166	1078.6	--	Pass
2480	1156	1072.5	--	Pass





9.3 Carrier Frequency Separation

Test Method

1. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels, RBW $\geq 1\%$ of the span, VBW \geq RBW, Sweep = auto, Detector function = peak
2. By using the Max-Hold function record the separation of two adjacent channels.
3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit kHz
$\geq 25\text{KHz}$ or $2/3$ of the 20 dB bandwidth which is greater

GFSK Modulation Limit

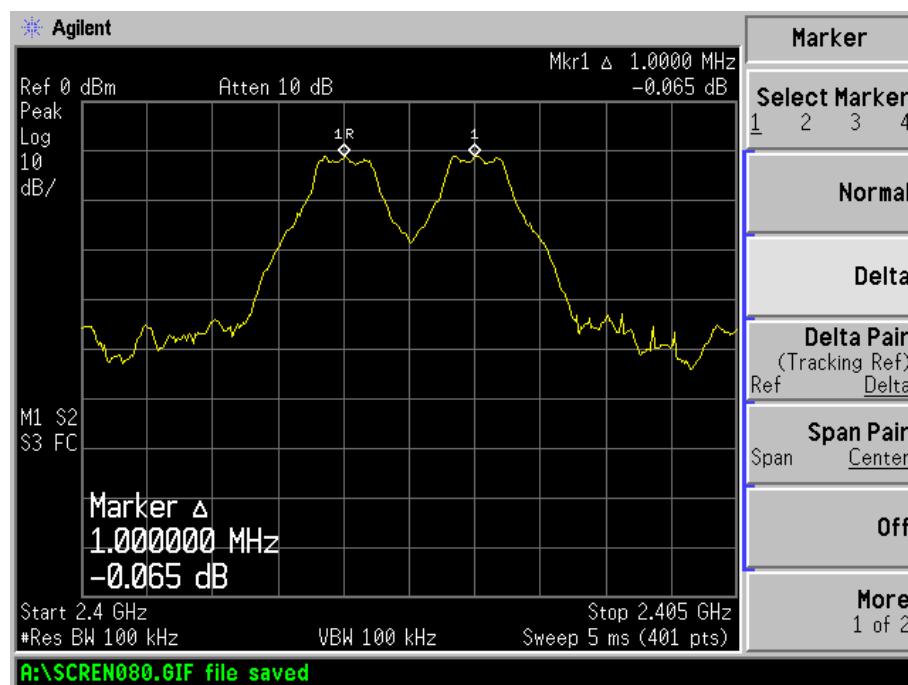
Frequency MHz	2/3 of 20 dB Bandwidth kHz
2402	593.07
2441	568.10
2480	583.66

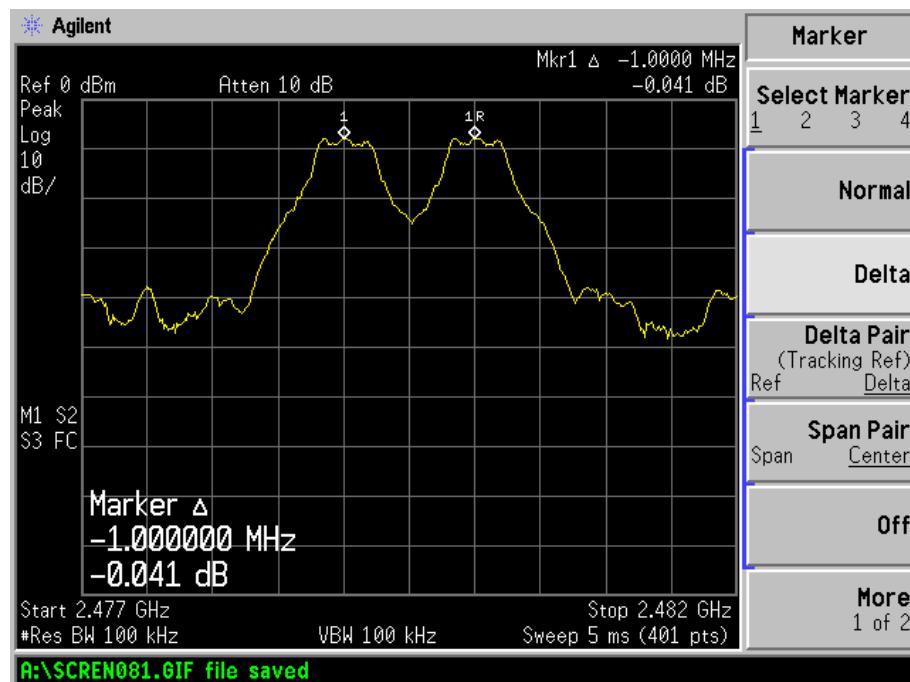
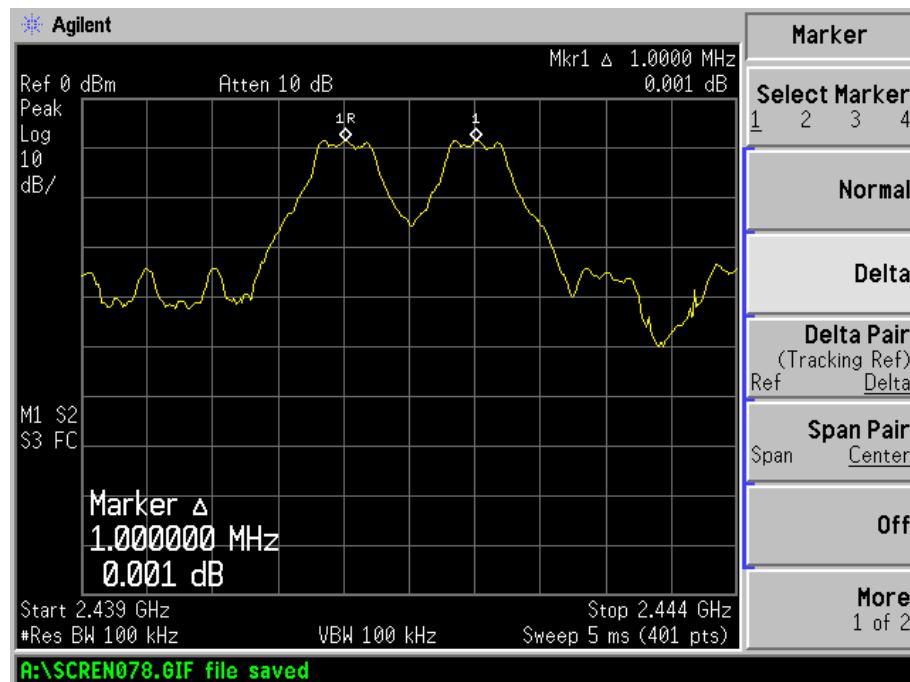
Carrier Frequency Separation

Test result: The measurement was performed with the typical configuration (normal hopping status), here GFSK modulation mode was used to show compliance.

GFSK Modulation test result

Frequency MHz	Carrier Frequency Separation kHz	Result
2402	1000	Pass
2441	1000	Pass
2480	1000	Pass





9.4 Number of hopping frequencies

Test Method

1. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels, RBW $\geq 1\%$ of the span, VBW \geq RBW, Sweep = auto, Detector function = peak
2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
3. Record all the signals from each channel until each one has been recorded.
4. Repeat above procedures until all frequencies measured were complete.

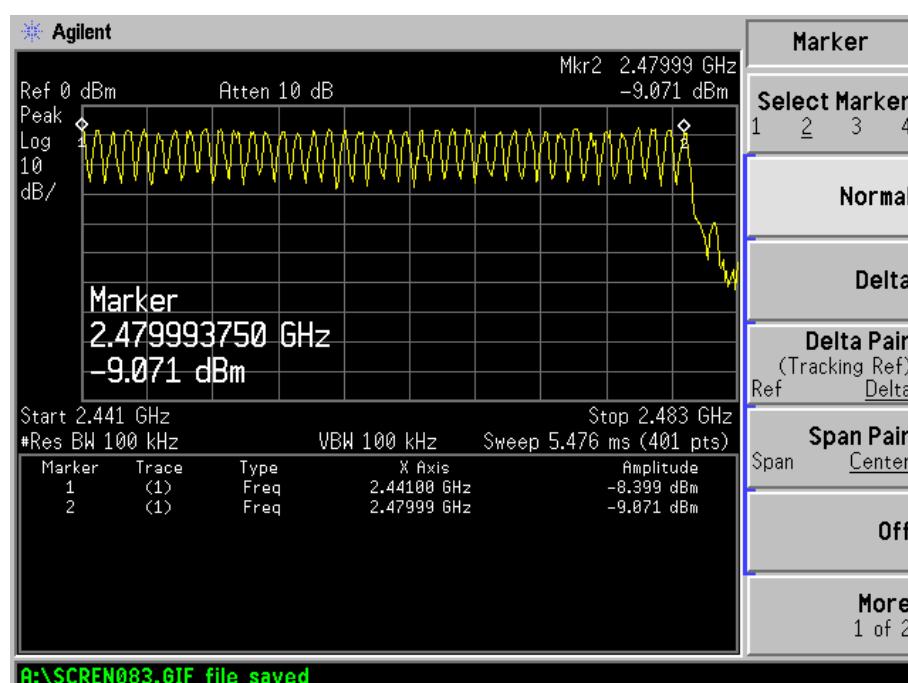
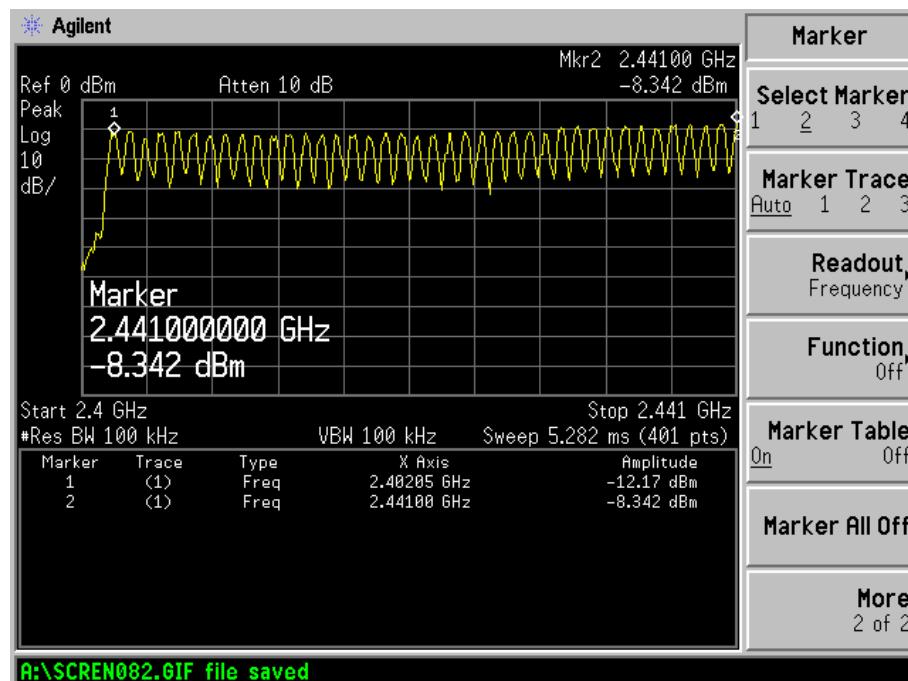
Limit

Limit
number
<hr/> ≥ 15

Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.

Number of hopping frequencies	Result
79	Pass



9.5 Dwell Time

Test Method

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
Equipment mode: Spectrum analyzer
2. RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
3. Adjust the center frequency of spectrum analyzer on any frequency to be measured.
4. Measure the Dwell Time by spectrum analyzer Marker function.
5. Repeat above procedures until all frequencies measured were complete.

Limit

According to §15.247(a)(1)(iii) & RSS-210 A8.1(c) The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Dwell Time

Dwell time

The maximum dwell time shall be 0,4 s.

According to the Bluetooth Core Specification, the worse result (DH5 mode) was reported to show compliance.

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows:

The duration for dwell time calculation: $0.4 \text{ [s]} * \text{hopping number} = 0.4 \text{ [s]} * 79 \text{ [ch]} = 31.6 \text{ [s*ch]}$;

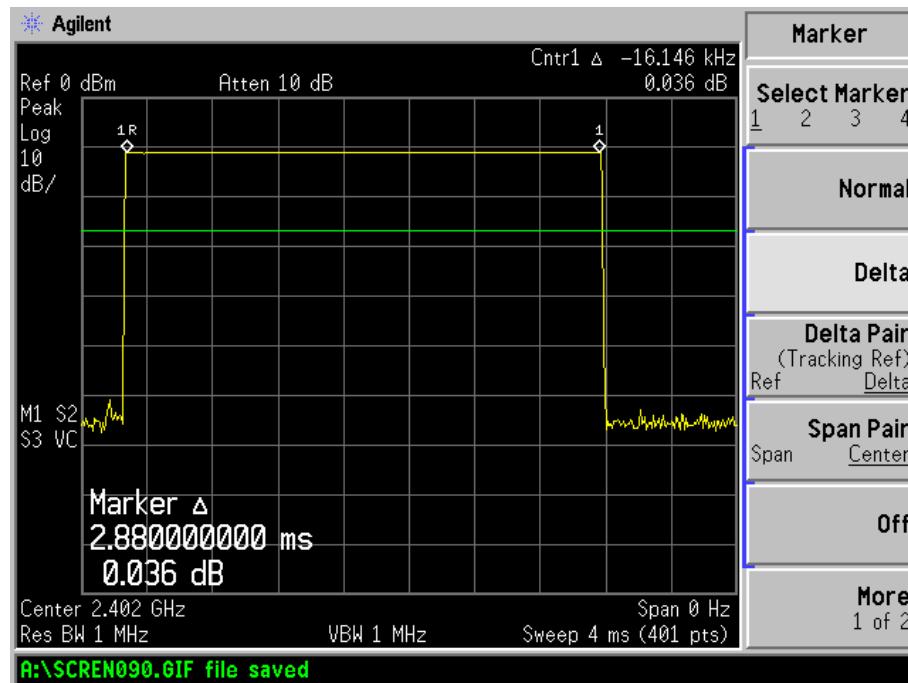
The burst width, which is directly measured, refers to the duration on one channel hop.

The maximum number of hopping channels in 31.6s for DH5=1600 / 6 / 79 *31.6=106.67

Test Result

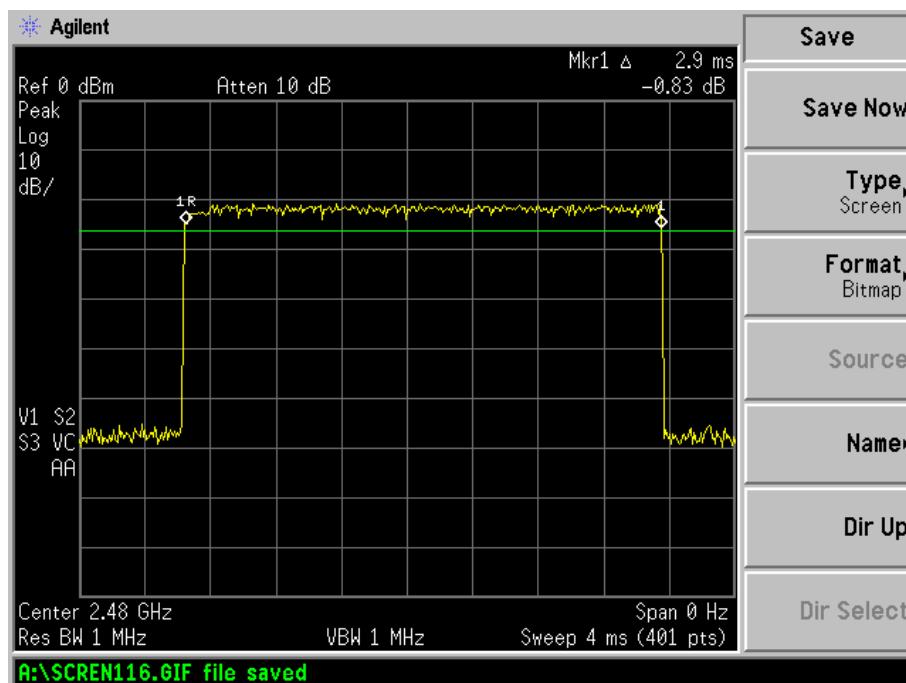
Modulation	Mode	Reading (μs)	Total Hops	Test Result (ms)	Limit (ms)	Result
GFSK	DH5	2880	106.67	307.2	< 400	Pass
π/4-DQPSK	2DH5	2900	106.67	309.3	< 400	Pass
8-DPSK	3DH5	2880	106.67	307.2	< 400	Pass

GFSK Modulation



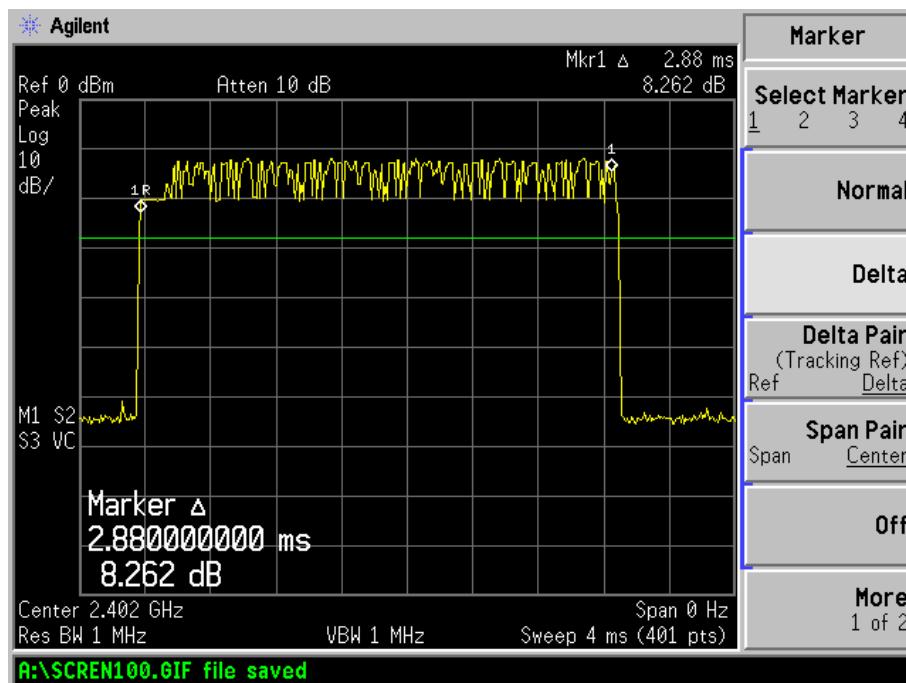
DH5

π/4-DQPSK Modulation



2DH5

8-DPSK Modulation



3DH5

9.6 Spurious RF conducted emissions

Test Method

1. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
3. The level displayed must comply with the limit specified in this Section. Submit these plots.
4. Repeat above procedures until all frequencies measured were complete.

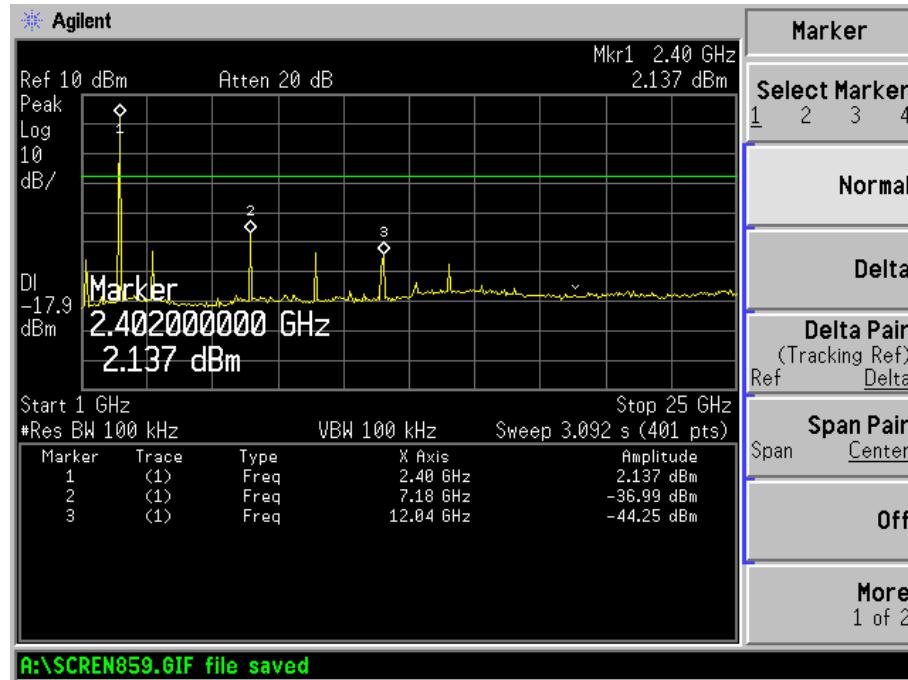
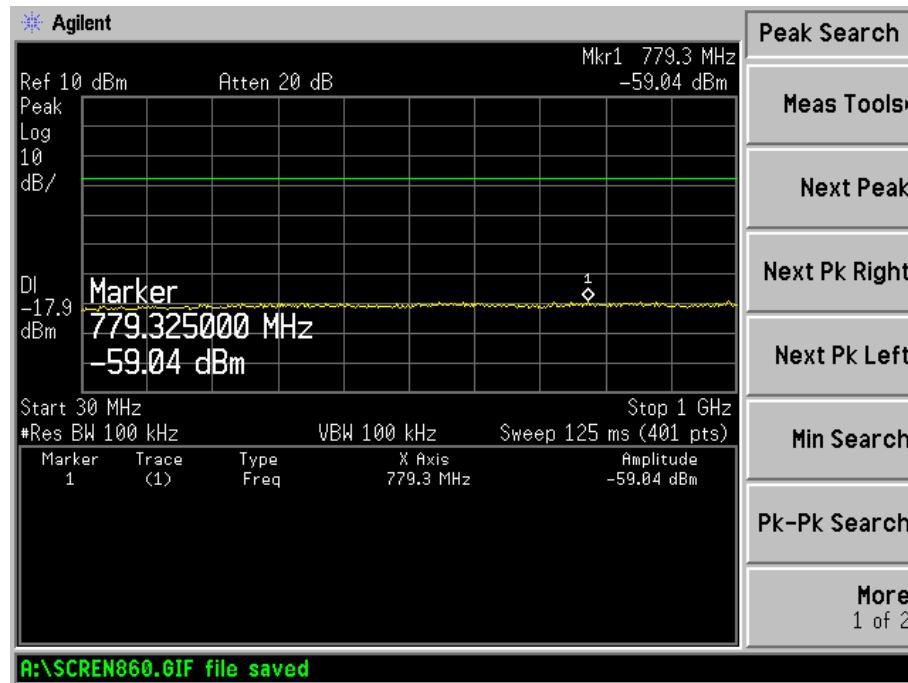
Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

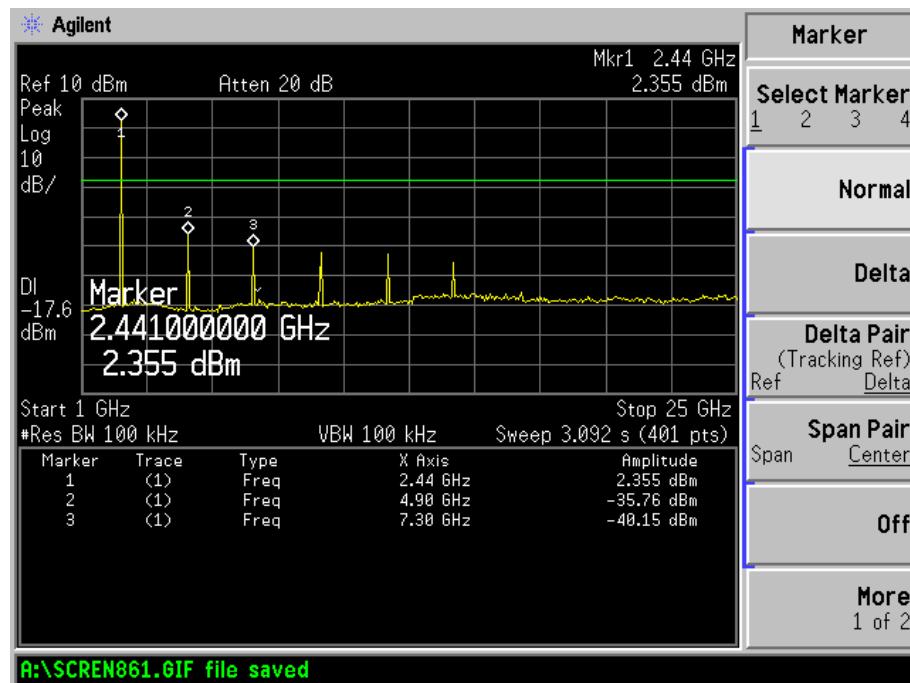
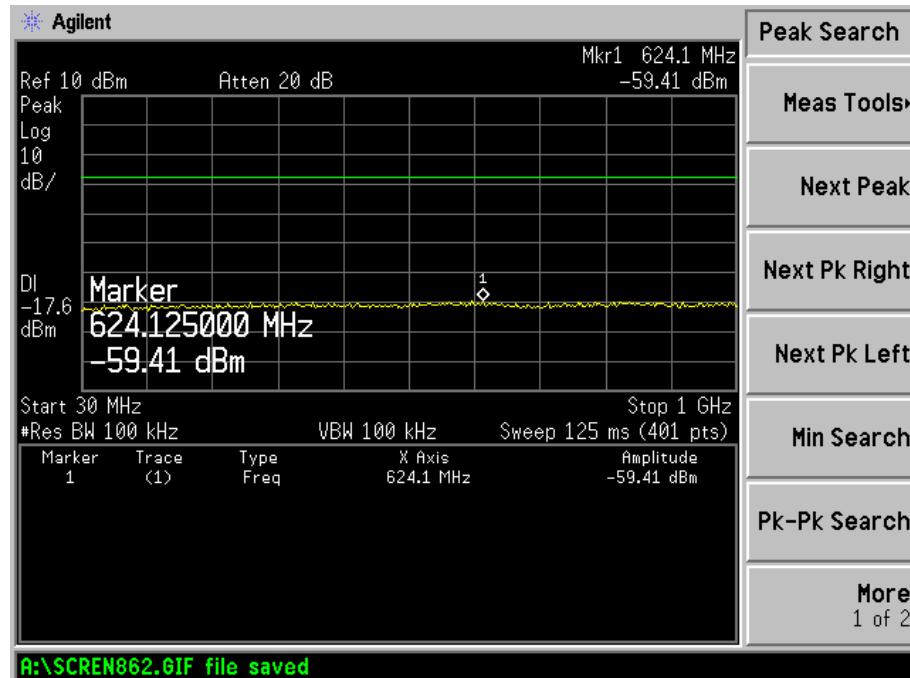
Only the worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

2402MHz



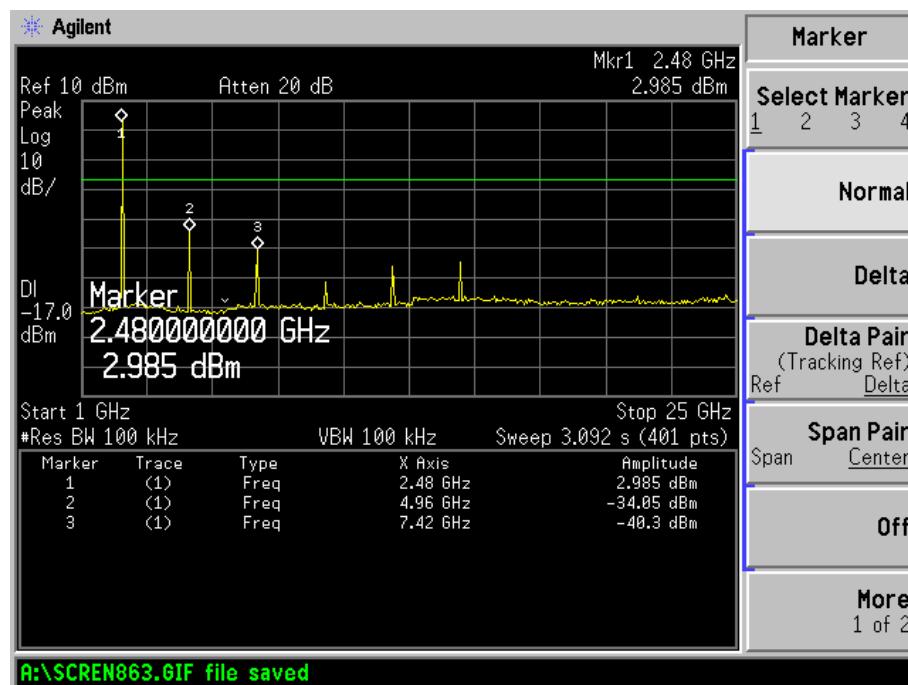
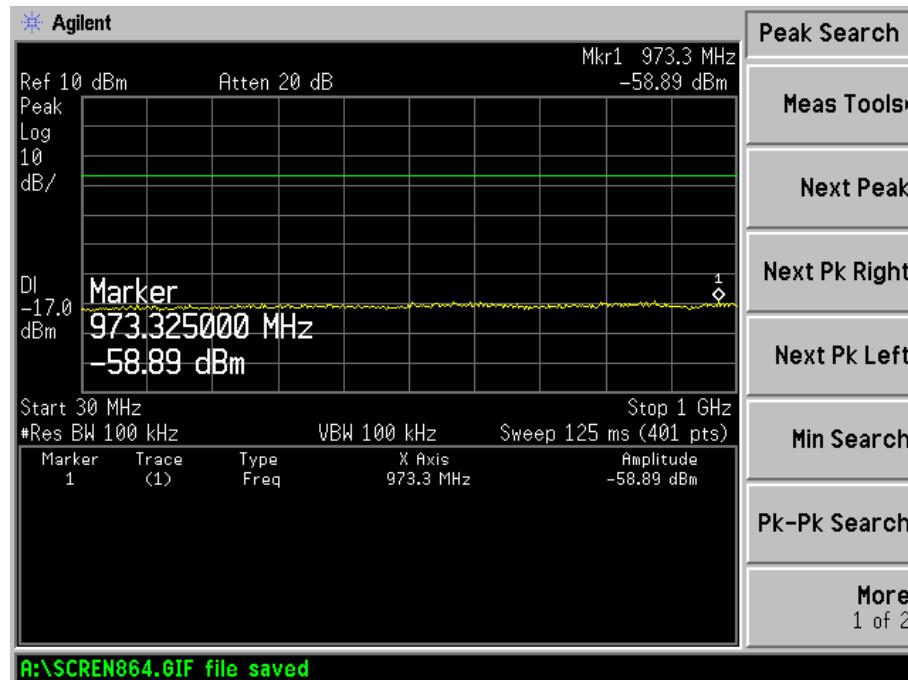
Spurious RF conducted emissions

2441MHz



Spurious RF conducted emissions

2480MHz



9.7 Band edge testing

Test Method

- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

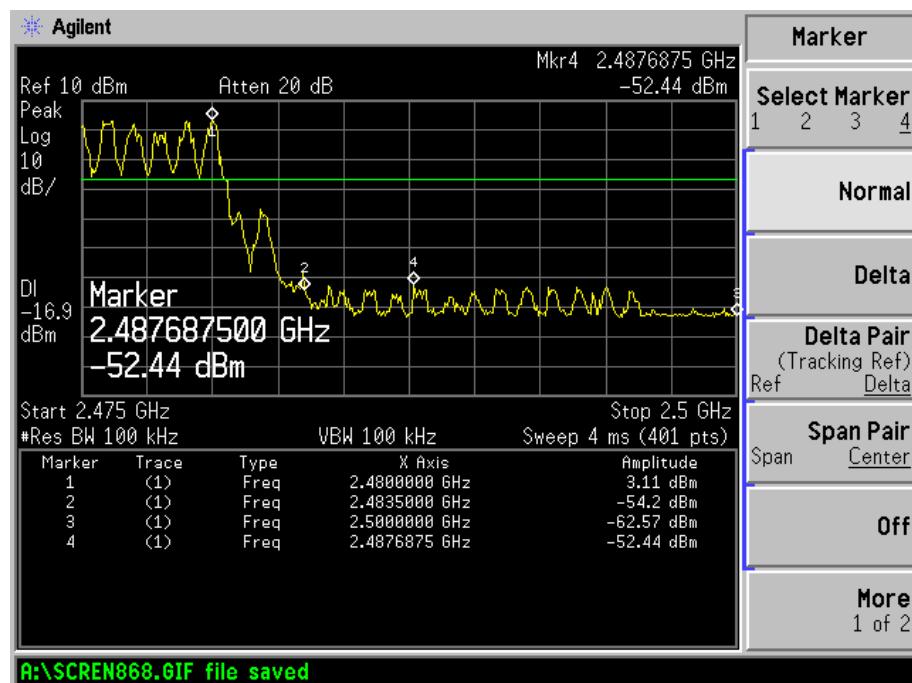
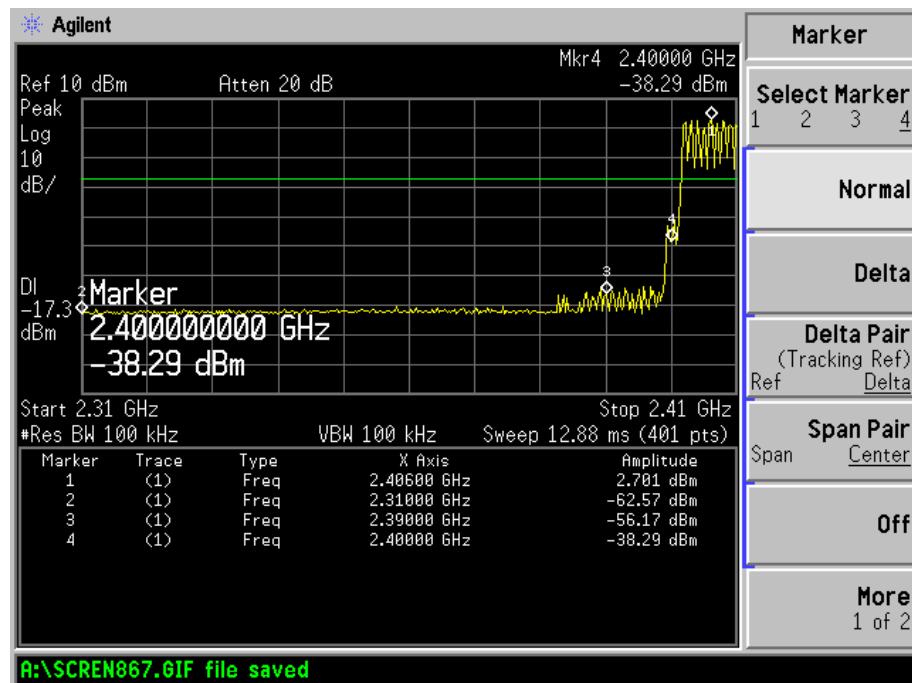
According to §15.247(d) and RSS-210 A8.5, in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) and RSS-Gen7.2.2, must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)) and RSS-Gen.

Remark: Only the worse case (GFSK mode) test result is listed in the report.

Band edge testing

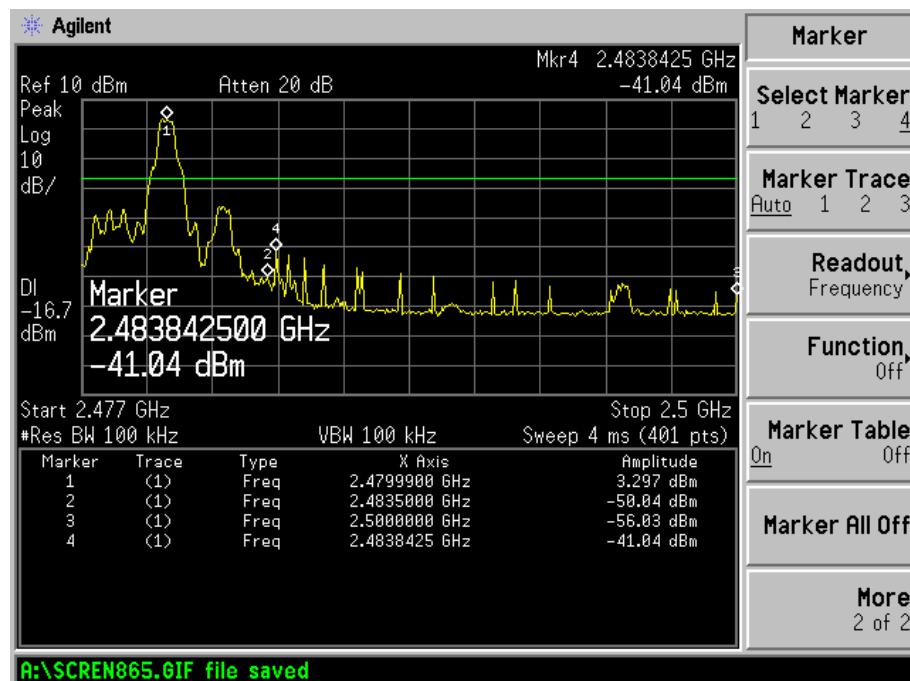
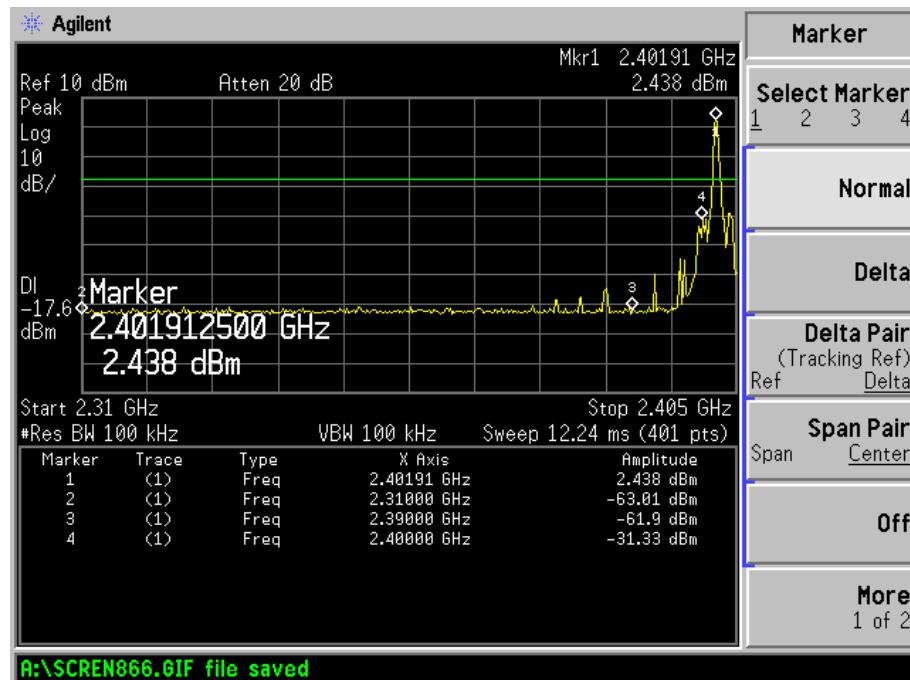
GFSK Modulation Test Result:

Hopping on mode:



Band edge testing

Hopping off mode:



9.8 Spurious radiated emissions for transmitter and receiver

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{ GHz}$, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-1992 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{duty cycle}/100\text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limit

According to part 15.247(d), the radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Spurious radiated emissions for transmitter and receiver

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

Transmitting spurious emission test result as below:

Bluetooth Mode GFSK Modulation 2402MHz Test Result

Frequency	Reading	Correct	Result	Polarization	Limit	Detector	Result
MHz	dB _{UV}	dB/m	dB _{UV} /m		dB _{μV} /m		
3604.604	48.84	-1.42	47.42	Horizontal	74.00	peak	Pass
3604.604	36.51	-1.42	35.09	Horizontal	54.00	AVG	Pass
4808.865	62.92	0.55	63.47	Horizontal	74.00	peak	Pass
4808.865	46.79	0.55	47.34	Horizontal	54.00	AVG	Pass
6014.075	49.30	2.43	51.73	Horizontal	74.00	peak	Pass
6014.075	35.23	2.43	37.66	Horizontal	54.00	AVG	Pass
3604.604	59.75	-1.42	58.33	Vertical	74.00	peak	Pass
3604.604	45.22	-1.42	43.80	Vertical	54.00	AVG	Pass
4808.865	66.77	0.55	67.32	Vertical	74.00	peak	Pass
4808.865	50.73	0.55	51.28	Vertical	54.00	AVG	Pass
6014.075	57.06	2.43	59.49	Vertical	74.00	peak	Pass
6014.075	40.04	2.43	42.47	Vertical	54.00	AVG	Pass

Bluetooth Mode GFSK Modulation 2441MHz Test Result

Frequency	Reading	Correct	Result	Polarization	Limit	Detector	Result
MHz	dB _{UV}	dB/m	dB _{UV} /m		dB _{μV} /m		
4881.099	63.37	0.65	64.02	Horizontal	74.00	peak	Pass
4881.099	46.44	0.65	47.09	Horizontal	54.00	AVG	Pass
7336.744	39.61	3.77	43.38	Horizontal	74.00	peak	Pass
7336.744	27.48	3.77	31.25	Horizontal	54.00	AVG	Pass
4881.099	63.37	0.65	64.02	Vertical	74.00	peak	Pass
4881.099	46.44	0.65	47.09	Vertical	54.00	AVG	Pass
7336.744	39.61	3.77	43.38	Vertical	74.00	peak	Pass
7336.744	27.48	3.77	31.25	Vertical	54.00	AVG	Pass

Bluetooth Mode GFSK Modulation 2480MHz Test Result

Frequency MHz	Reading dBuV	Correct dB/m	Result dBuV/m	Polarization	Limit dB μ V/m	Detector	Result
4966.745	63.07	0.78	63.85	Horizontal	74.00	peak	Pass
4966.745	46.39	0.78	47.17	Horizontal	54.00	AVG	Pass
7336.744	40.28	3.77	44.05	Horizontal	74.00	peak	Pass
7446.950	27.87	3.85	31.72	Horizontal	54.00	AVG	Pass
4966.745	65.29	0.78	66.07	Vertical	74.00	peak	Pass
4966.745	48.65	0.78	49.43	Vertical	54.00	AVG	Pass
7446.950	45.55	3.85	49.40	Vertical	74.00	peak	Pass
7446.950	30.31	3.85	34.16	Vertical	54.00	AVG	Pass

Remark:

- (1) QP Emission Level= Antenna Factor +Cable Loss + Reading
 PK Emission Level= Antenna Factor +Cable Loss - Amp. factor + Reading
 AV Emission Level= PK Emission Level+20log(dutycycle)
- (2) Testing is carried out with frequency rang 9kHz to the 10th harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 1GHz.

Receiving emission test result as below:

Frequency MHz	Reading dBuV	Correct dB/m	Result dBuV/m	Polarization	Limit dB μ V/m	Detector	Result
146.4000	40.26	-15.58	24.68	Horizontal	43.5	QP	Pass
356.8900	36.39	-9.12	27.26	Horizontal	46	QP	Pass
170.6500	39.57	-17.76	21.81	Vertical	43.5	QP	Pass
349.1298	34.91	-11.13	23.78	Vertical	46	QP	Pass

Remark:

- (1) QP Emission Level= Antenna Factor +Cable Loss + Reading
 PK Emission Level= Antenna Factor +Cable Loss - Amp. factor + Reading
 AV Emission Level= PK Emission Level+20log (dutycycle)
- (2) Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are the noise floor or attenuated more than 20db below the permissible limits or the field strength is too small to be measured.

10 Test Equipment List

List of Test Instruments

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE	
CE	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-05-06	<input checked="" type="checkbox"/>
	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-05-06	<input checked="" type="checkbox"/>
	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-05-06	<input checked="" type="checkbox"/>
C	Spectrum Analyzer	Agilent	E4402B	US41192821	2015-05-06	<input checked="" type="checkbox"/>
	Attenuator	ATTEN	ATS100-4-20	/	2015-05-06	<input checked="" type="checkbox"/>
RE	Spectrum Analyzer	R&S	FSP	836079/035	2015-05-06	<input checked="" type="checkbox"/>
	EMI Test Receiver	R&S	ESVB	825471/005	2015-05-06	<input checked="" type="checkbox"/>
	Pre-amplifier	Agilent	8447F	3113A06717	2015-05-06	<input checked="" type="checkbox"/>
	Pre-amplifier	Compliance Direction	PAP-0118	24002	2015-05-06	<input checked="" type="checkbox"/>
	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2015-04-19	<input checked="" type="checkbox"/>
	Horn Antenna	ETS	3117	00086197	2015-04-19	<input checked="" type="checkbox"/>
	Horn Antenna	ETS	3116B	00088203	2015-04-19	<input checked="" type="checkbox"/>
	Loop Antenna	SCHWARZECK	HFRA 5165	9365	2015-04-19	<input checked="" type="checkbox"/>

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth
- 20dB bandwidth and 99% Occupied Bandwidth
- Carrier frequency separation
- Number of hopping frequencies
- Dwell Time
- Power spectral density*
- Spurious RF conducted emissions
- Band edge

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty

Items	Extended Uncertainty
Radiated spurious emission	5.10dB (30MHz-1GHz) 2.27dB (1GHz -25GHz)
Conducted spurious emission	2.10dB(30MHz-25GHz)
Bandwidth test	1×10^{-9}
Conducted emission	2.88dB