

Prüfbericht-Nr.: <i>Test Report No.:</i>	17044435 001	Auftrags-Nr.: <i>Order No.:</i>	164022911	Seite 1 von 95 Page 1 of 95
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	10.10.2014	
Auftraggeber: <i>Client:</i>	Shenzhen Topband Co., Ltd, Topband Industrial Park, LiYuan Industrial Zone, ShiYan Town, Bao'An District, Shenzhen 518108, China			
Prüfgegenstand: <i>Test item:</i>	wireless jobsite speaker			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	2592-20			
Auftrags-Inhalt: <i>Order content:</i>	FCC Certification			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: <i>Date of receipt:</i>	30.10.2014			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000120647-001, A000120647-002			
Prüfzeitraum: <i>Testing period:</i>	01.11.2014 - 04.11.2014			
Ort der Prüfung: <i>Place of testing:</i>	Accurate Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
26.11.2014 Datum Date		26.11.2014 Datum Date		
Owen Tian/Project Manager Name / Stellung Name / Position		Winie Hou/Technical Certifier Name / Stellung Name / Position		
Unterschrift Signature		Unterschrift Signature		
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.4 6dB BANDWIDTH AND 99% BANDWIDTH***RESULT: Pass***5.1.5 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH***RESULT: Pass***5.1.6 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.7 SPURIOUS EMISSION***RESULT: Pass***5.1.8 FREQUENCY SEPARATION***RESULT: Pass***5.1.9 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.10 TIME OF OCCUPANCY***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

None.

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.

(FCC Registration No.: 752051)

F1, Bldg. A, Changyuan New Material Port
Keyuan Rd., Science & Industry Park, Nanshan
Shenzhen, P.R. China

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Transmitter spurious emissions & Receiver spurious emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2015-01-11
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	2015-01-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Radio Spectrum Test				
EMI Test Receiver	Rohde&Schwarz	ESPI-3	100396/003	2015-01-11
Spectrum Analyzer	Rohde & Schwarz	FSV40	101495	2015-06-11
Temp. & Humid. Chamber	Gongwen	HSD-500	0109	2015-01-11
Conducted Emission				
Test Receiver	Rohde&Schwarz	ESCS30	100307	2015-01-11
L.I.S.N.	Schwarzbeck	NLSK8126	8126431	2015-01-11
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100815	2015-01-11
50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015-01-11

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Radio Spectrum	$< \pm 0.60 \text{ dB}$
Radiated emission of transmitter, valid up to 26.5 GHz	$< \pm 4.42 \text{ dB}$
Conducted Emission	$< \pm 2.23 \text{ dB}$
Radiated Emission	$< \pm 4.42 \text{ dB}$

2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan, Shenzhen, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth speaker.
 For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of Bluetooth (BDR & EDR mode)

Technical Specification	Value
Kind of Equipment	wireless jobsite speaker
Type Designation	2592-20
FCC ID	2AADDWSPEAKER-M12
Operating Frequency band	2402 – 2480MHz
Channel separation	1MHz
Extreme Temperature Range	-20~+60°C
Operation Voltage	DC 12V (via built in battery)
Modulation	FHSS, GFSK, 8DPSK, $\pi/4$ DQPSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	0dBi

Table 4: RF channel and frequency of Bluetooth (BDR & EDR mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	21	2423.00	42	2444.00	63	2465.00
1	2403.00	22	2424.00	43	2445.00	64	2466.00
2	2404.00	23	2425.00	44	2446.00	65	2467.00
3	2405.00	24	2426.00	45	2447.00	66	2468.00
4	2406.00	25	2427.00	46	2448.00	67	2469.00
5	2407.00	26	2428.00	47	2449.00	68	2470.00
6	2408.00	27	2429.00	48	2450.00	69	2471.00
7	2409.00	28	2430.00	49	2451.00	70	2472.00
8	2410.00	29	2431.00	50	2452.00	71	2473.00
9	2411.00	30	2432.00	51	2453.00	72	2474.00
10	2412.00	31	2433.00	52	2454.00	73	2475.00
11	2413.00	32	2434.00	53	2455.00	74	2476.00
12	2414.00	33	2435.00	54	2456.00	75	2477.00
13	2415.00	34	2436.00	55	2457.00	76	2478.00

14	2416.00	35	2437.00	56	2458.00	77	2479.00
15	2417.00	36	2438.00	57	2459.00	78	2480.00
16	2418.00	37	2439.00	58	2460.00		
17	2419.00	38	2440.00	59	2461.00		
18	2420.00	39	2441.00	60	2462.00		
19	2421.00	40	2442.00	61	2463.00		
20	2422.00	41	2443.00	62	2464.00		

Table 5: Technical Specification of Bluetooth (LE mode)

Technical Specification	Value
Kind of Equipment	wireless jobsite speaker
Type Designation	2592-20
FCC ID	2AADDWSPEAKER-M12
Operating Frequency band	2402 – 2480MHz
Channel separation	2MHz
Extreme Temperature Range	-20~+60°C
Operation Voltage	DC 12V (via built in battery)
Modulation	GFSK
Bluetooth version	4.0, Dual Mode
Antenna Gain	0dBi

Table 6: RF channel and frequency of Bluetooth (LE mode)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	11	2424.00	22	2446.00	33	2468.00
1	2404.00	12	2426.00	23	2448.00	34	2470.00
2	2406.00	13	2428.00	24	2450.00	35	2472.00
3	2408.00	14	2430.00	25	2452.00	36	2474.00
4	2410.00	15	2432.00	26	2454.00	37	2476.00
5	2412.00	16	2434.00	27	2456.00	38	2478.00
6	2414.00	17	2436.00	28	2458.00	39	2480.00
7	2416.00	18	2438.00	29	2460.00		
8	2418.00	19	2440.00	30	2462.00		
9	2420.00	20	2442.00	31	2464.00		
10	2422.00	21	2444.00	32	2466.00		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth mode (BDR & EDR mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
 - 2. Bluetooth mode (LE mode)
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	S/N
iPod	Apple	A1238	8K039T1Y9ZU
iPad	Apple	MD513CH/A	DMTK58A5F185

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

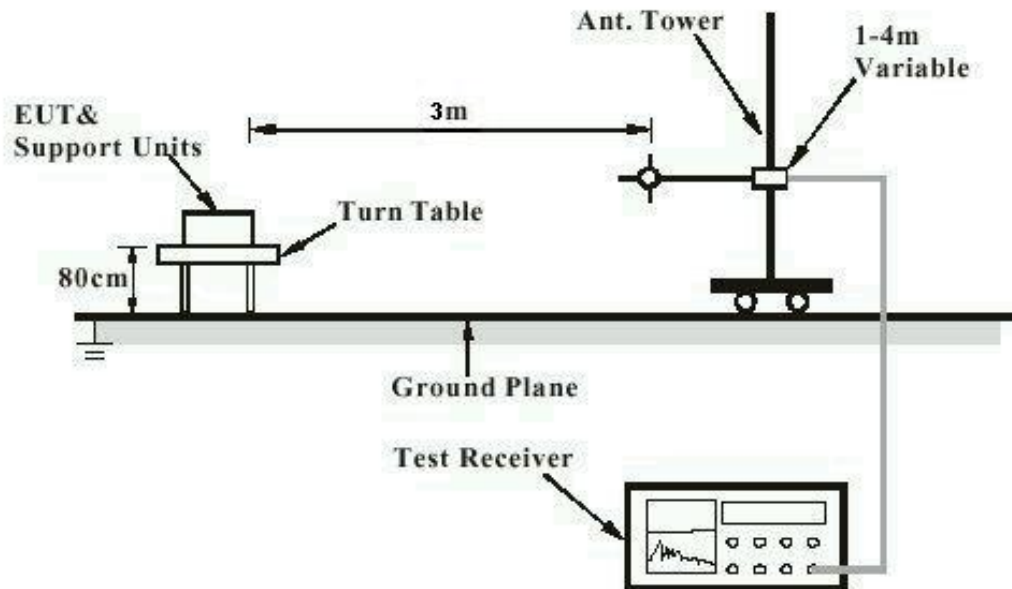
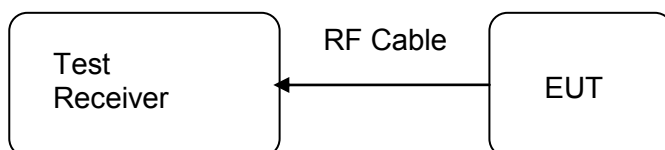


Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass**

Test standard : FCC Part 15.247(b)(4) and Part 15.203
Limit The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

5.1.2 Peak Output Power

RESULT:
Pass

Test date : 2014-11-01
 Test standard : FCC Part 15.247(b)(1)
 FCC Part 15.247(b)(3)
 Basic standard : ANSI C63.4: 2003
 Clause 9.1 of KDB 558074 v03r01
 Limit : 125mW, 1W
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a, A.2.a
 Ambient temperature : 24°C
 Relative humidity : 48%
 Atmospheric pressure : 101kPa

Table 7: Test result of Peak Output Power of Buletooth (BDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	3.62	21
Middle Channel	2441	5.46	21
High Channel	2480	5.58	21

Table 8: Test result of Peak Output Power of Bluetooth (EDR mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	1.47	21
Middle Channel	2441	3.76	21
High Channel	2480	3.82	21

Table 9: Test result of Peak Output Power of Bluetooth (LE mode)

Channel	Channel Frequency (MHz)	Peak Output Power	Limit
		(dBm)	(dBm)
Low Channel	2402	2.48	30
Middle Channel	2440	4.13	30
High Channel	2480	5.59	30

5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:
Pass

Date of testing : 2014-11-01
 Test standard : FCC Part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Clause 8 of KDB 558074 v03r01
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 24°C
 Relative humidity : 48%
 Atmospheric pressure : 101kPa

Table 10: Test result of 20dB & 99% Bandwidth of BDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.942	0.936
Mid Channel	2441	0.942	0.936
High Channel	2480	0.942	0.936

Table 11: Test result of 20dB & 99% Bandwidth of EDR mode

Channel	Channel Frequency (MHz)	20dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	1.200	1.194
Mid Channel	2441	1.206	1.200
High Channel	2480	1.210	1.206

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5.1.4 6dB Bandwidth and 99% Bandwidth**RESULT:****Pass**

Date of testing : 2014-11-01
Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.4: 2003
Clause 8 of KDB 558074 v03r01
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.2.a
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Table 12: Test result of 6dB & 99% Bandwidth of Bluetooth, LE mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.634	1.056
Mid Channel	2440	0.641	1.056
High Channel	2480	0.636	1.056

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5.1.5 Conducted Spurious Emissions measured in 100kHz Bandwidth**RESULT:****Pass**

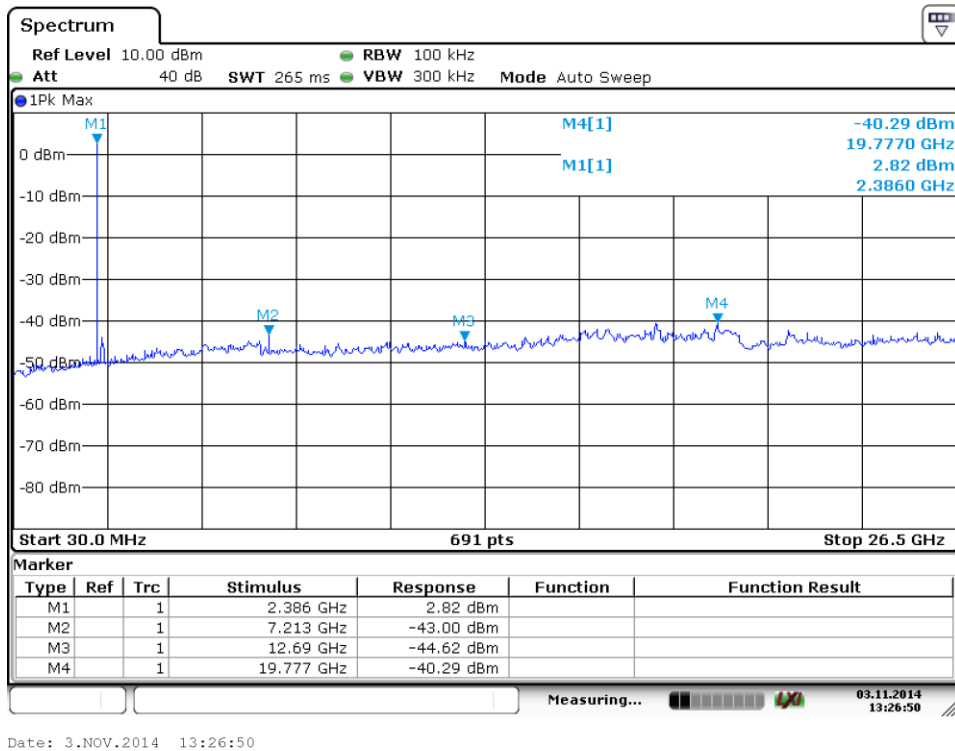
Date of testing	:	2014-11-03
Test standard	:	FCC part 15.247(d)
Basic standard	:	ANSI C63.4: 2003
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	:	Shield room

Test setup

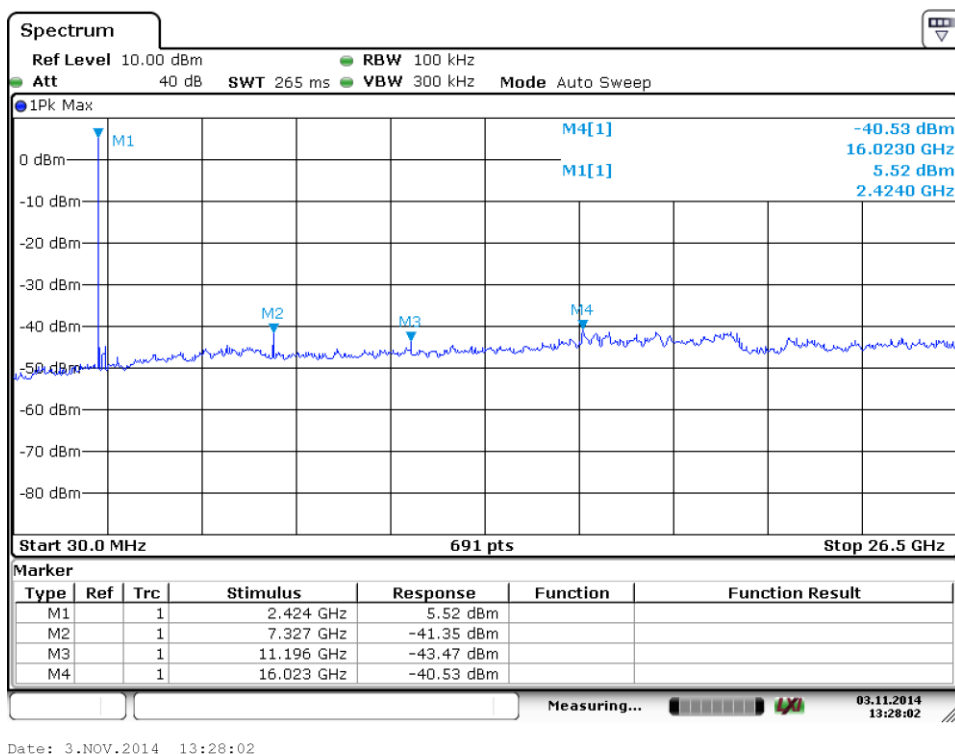
Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1.a, A.2.a
Ambient temperature	:	24°C
Relative humidity	:	48%
Atmospheric pressure	:	101kPa

For details refer to following test plot.

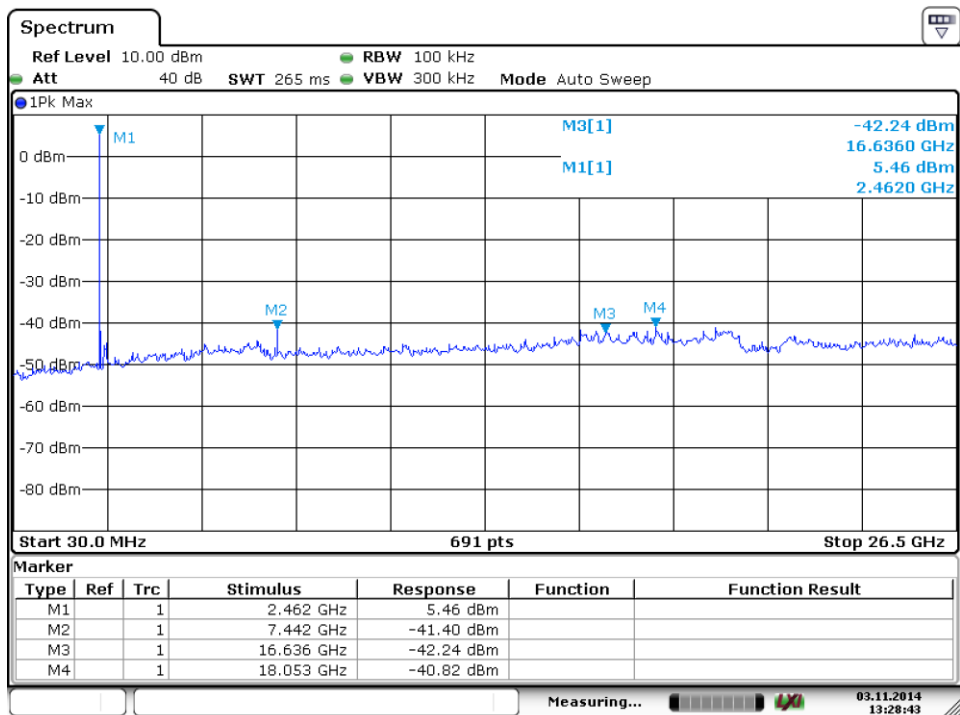
Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of BDR mode Low Channel



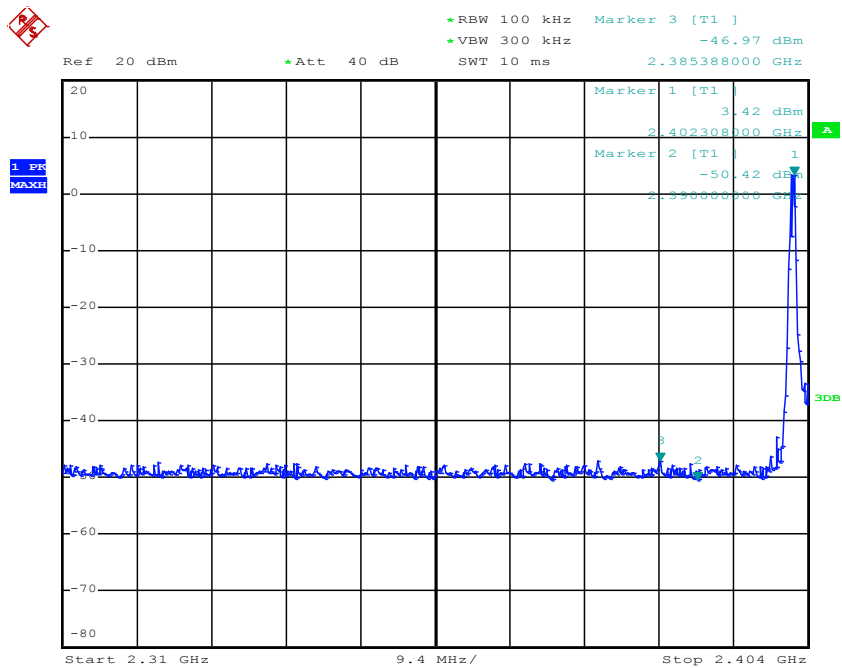
Middle Channel



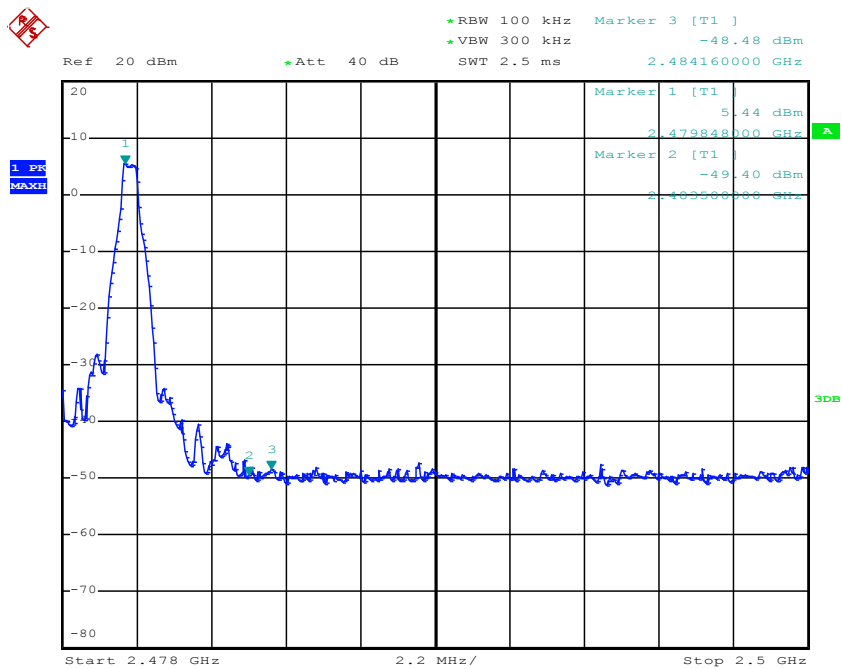
High Channel



Date: 3.NOV.2014 13:28:43

Band Edge


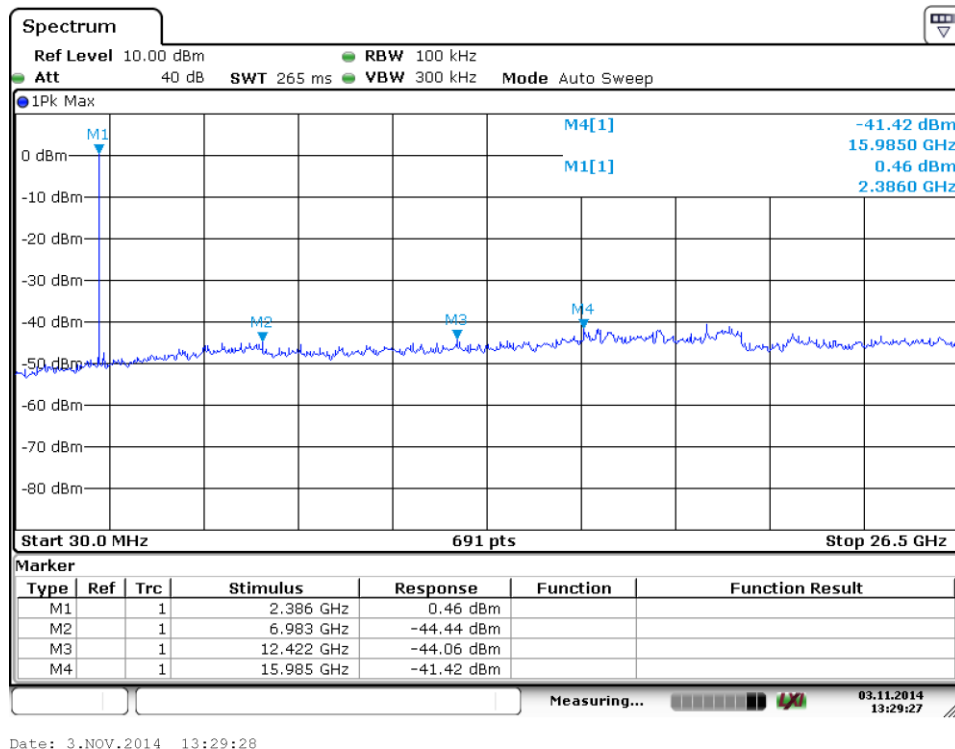
Date: 1.NOV.2014 10:53:35



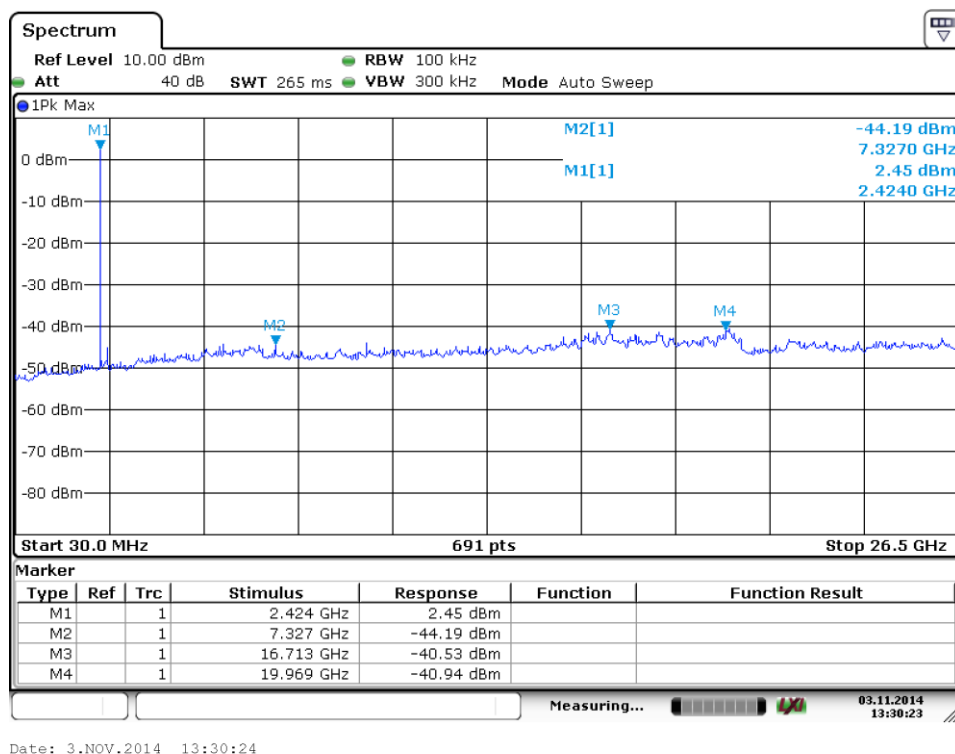
Date: 1.NOV.2014 10:54:32

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of EDR mode

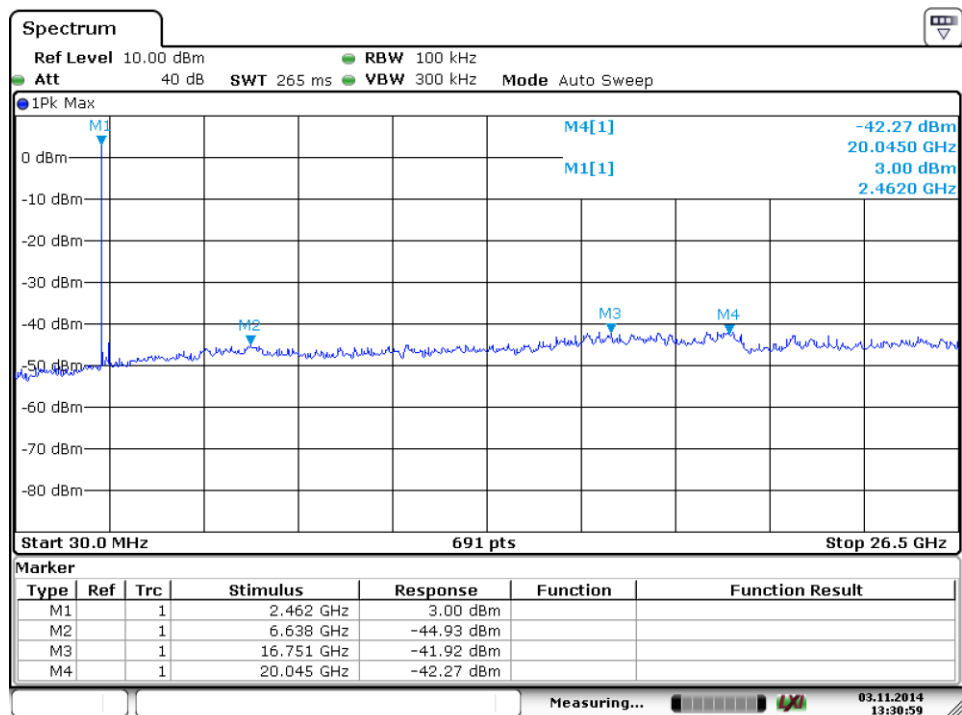
Low Channel



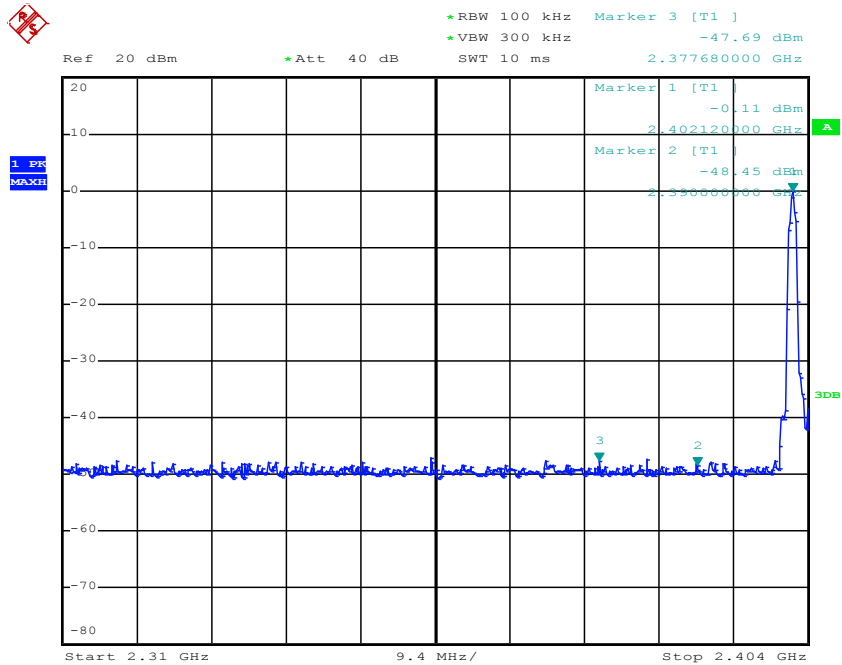
Middle Channel



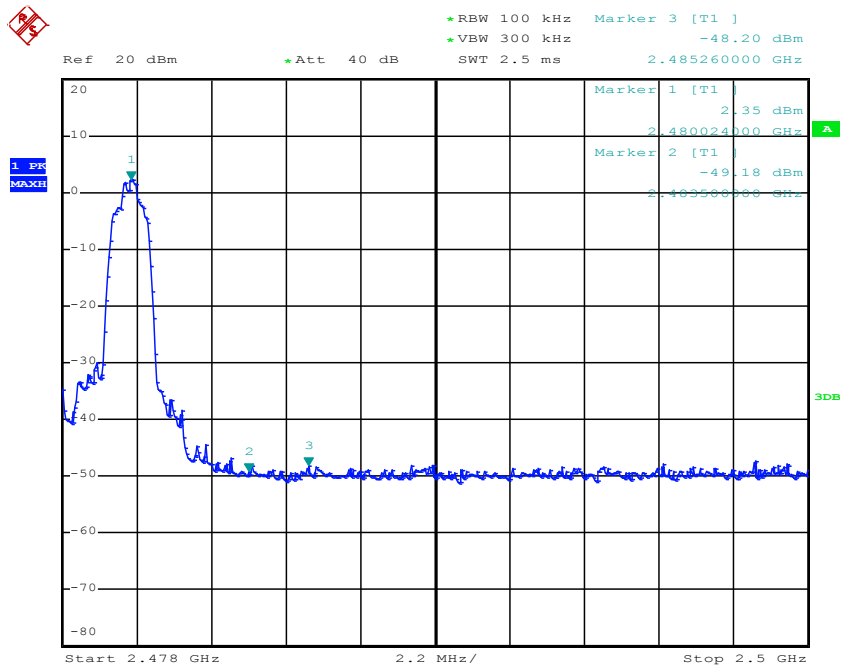
High Channel



Date: 3.NOV.2014 13:31:00

Band Edge


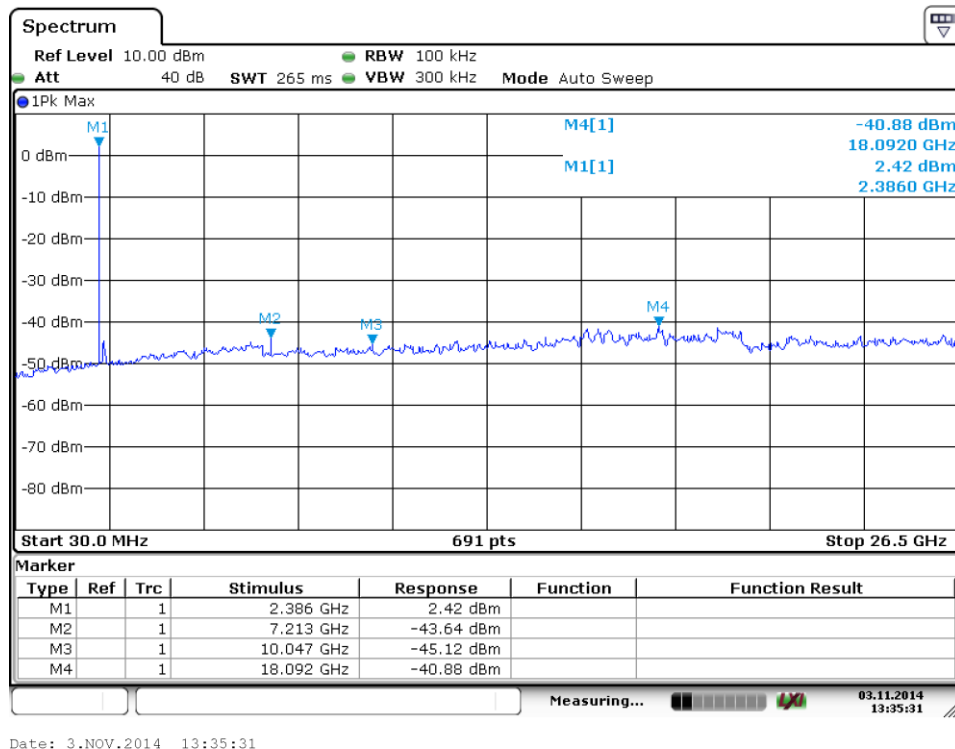
Date: 1.NOV.2014 10:55:58



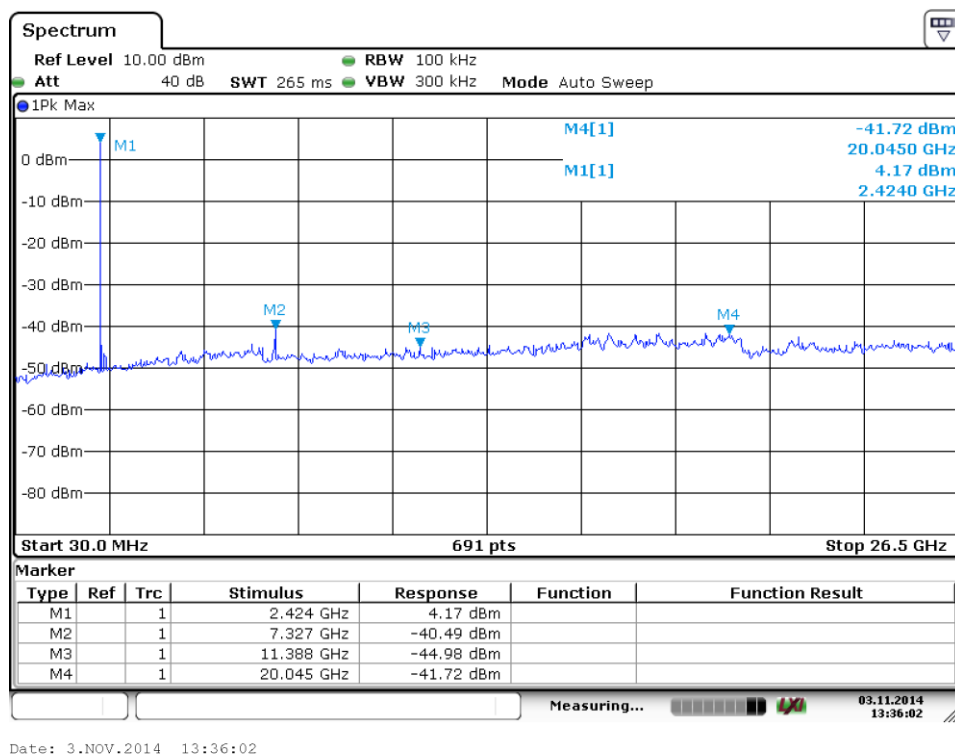
Date: 1.NOV.2014 10:55:17

Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of LE mode

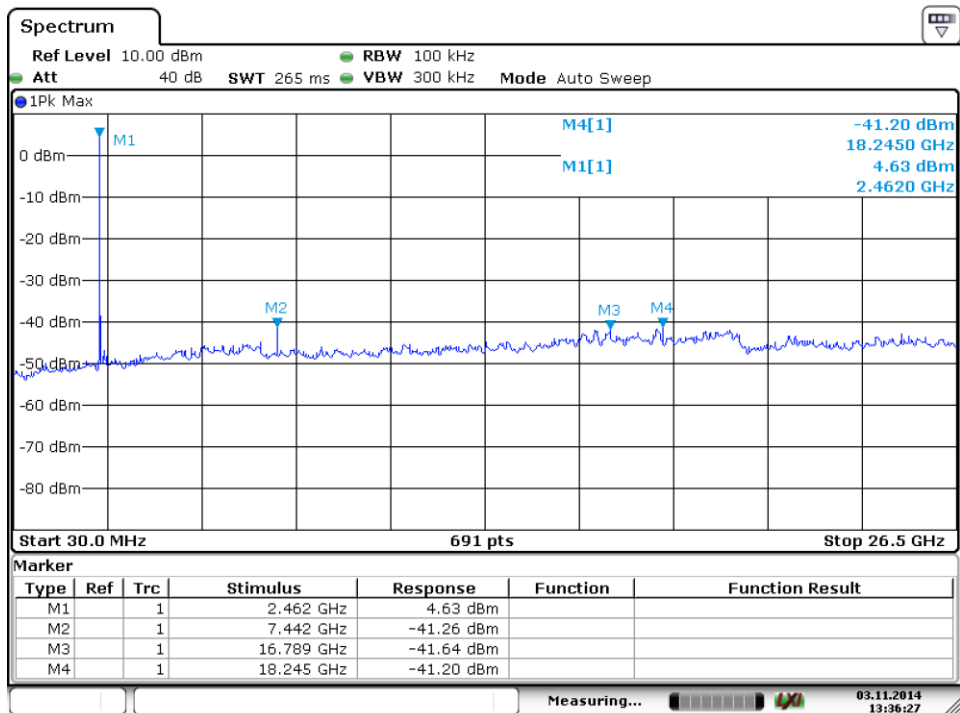
Low Channel



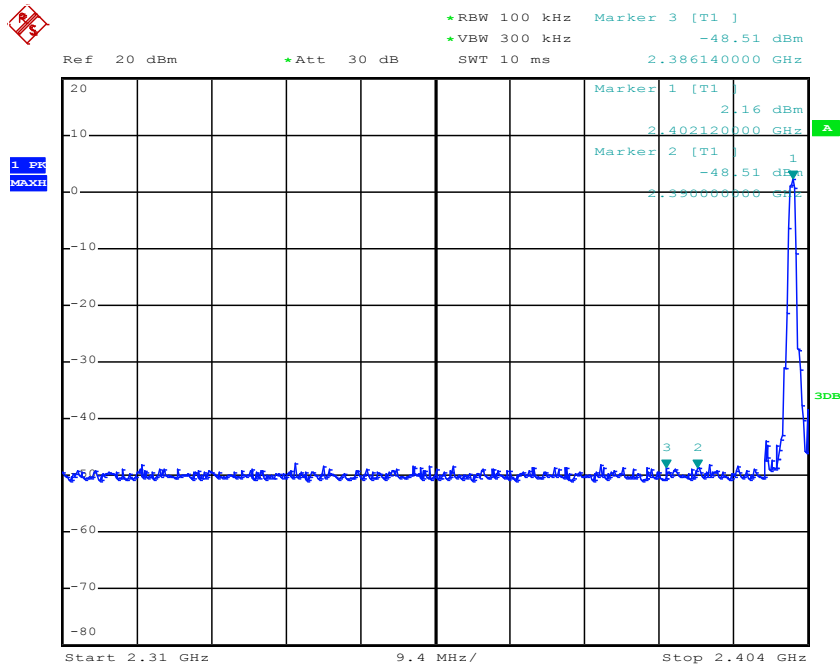
Middle Channel



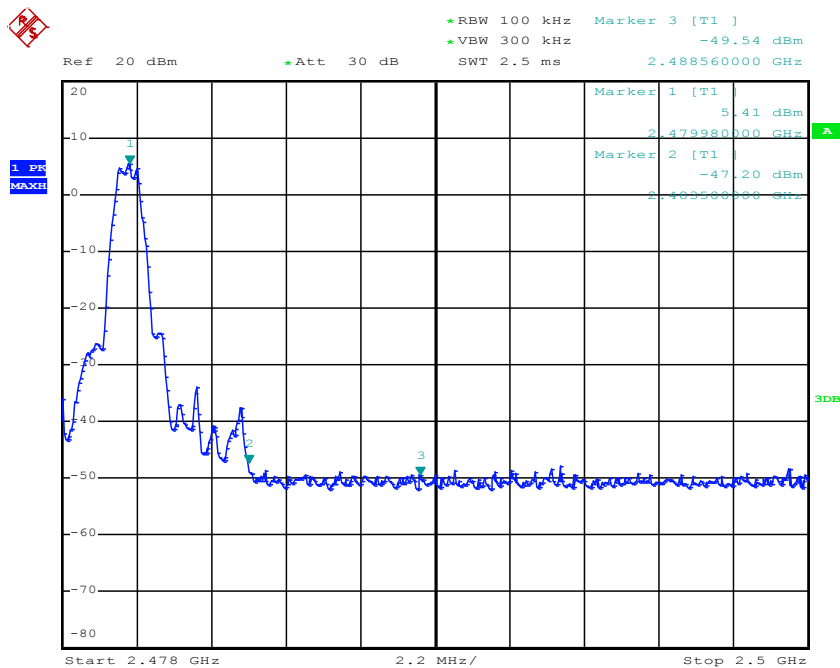
High Channel



Date: 3.NOV.2014 13:36:28

Band Edge


Date: 1.NOV.2014 10:16:18



Date: 1.NOV.2014 10:17:31

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5.1.6 Power spectral density**RESULT:****Pass**

Date of testing : 2014-11-01
Test standard : FCC part 15.247(e)
Basic standard : ANSI C63.4: 2003
Clause 10 of KDB 558074 v03r01
Limit : 8dBm/3kHz
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.2.a
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Table 13: Test result of power spectral density:

Mode	Channel (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Conclusion
Bluetooth LE mode	2402	-13.32	8	Pass
	2440	-11.35	8	Pass
	2480	-9.81	8	Pass

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5.1.7 Spurious Emission

RESULT:**Pass**

Date of testing : 2014-11-04
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2003
Clause 11 of KDB 558074 v03r01
Limits : FCC part 15.209(a)
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.1.a, A.2.a
Ambient temperature : 23°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

For details refer to following test plot.

Test Plot of Spurious Emission of transmitting

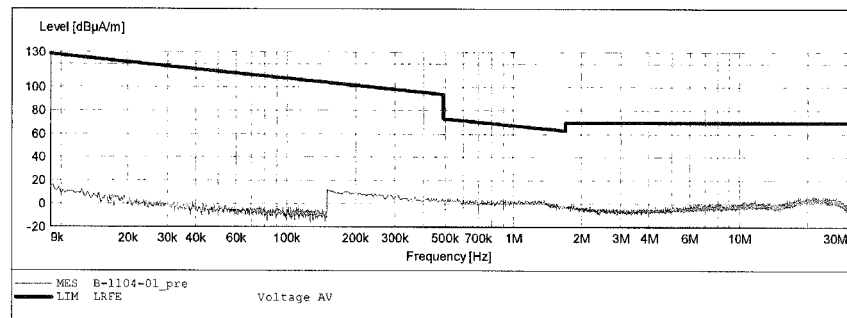
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2402MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:				_SUB STD VTERM2 1.70		
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

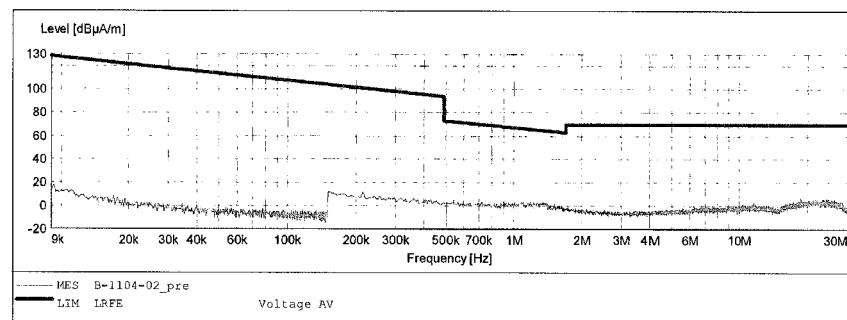


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2402MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

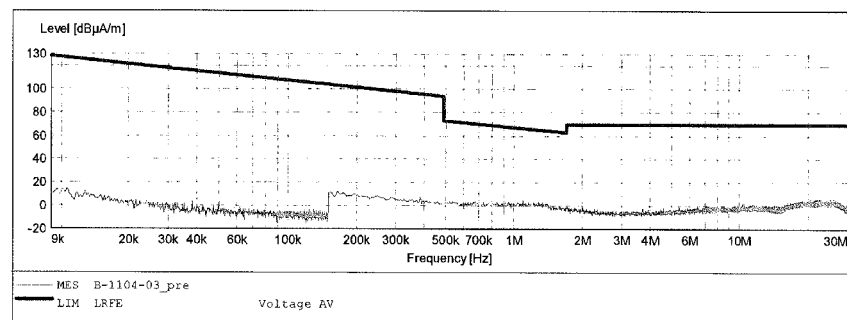


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2402MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

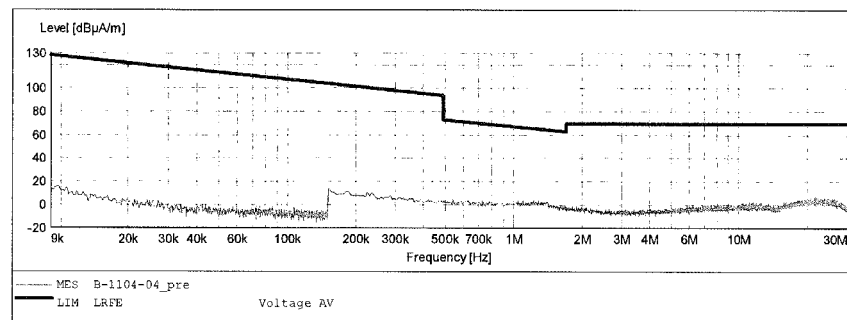


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2441MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

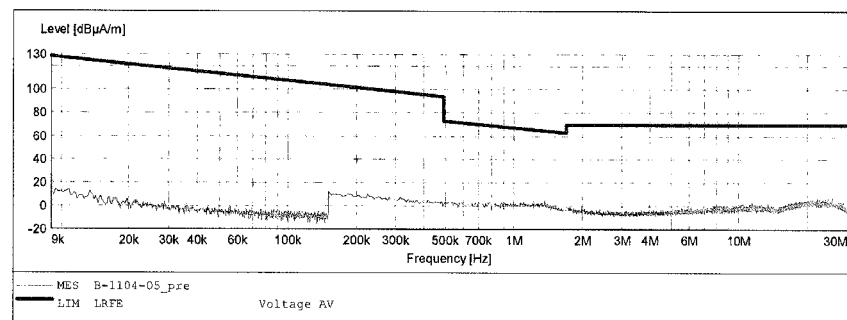


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2441MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



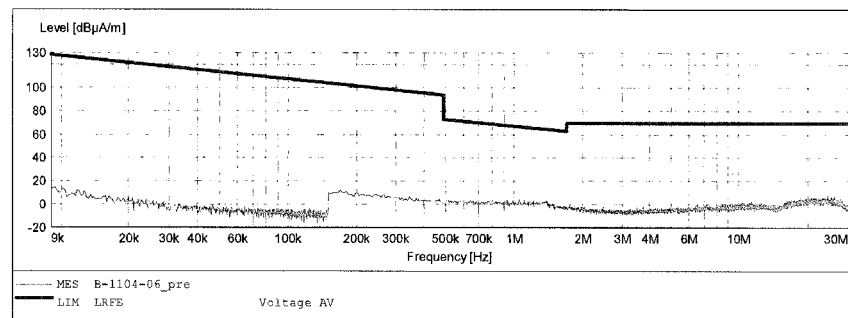
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2441MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



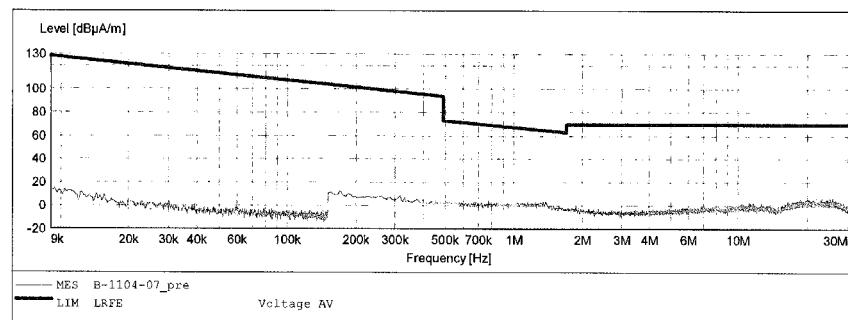
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2480MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

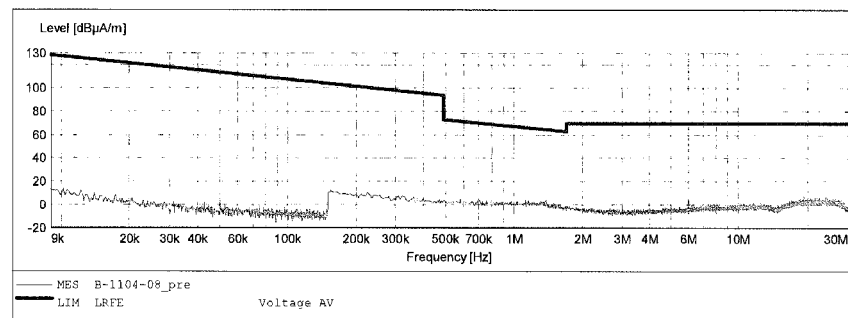


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2480MHz
 Test Site: 2#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



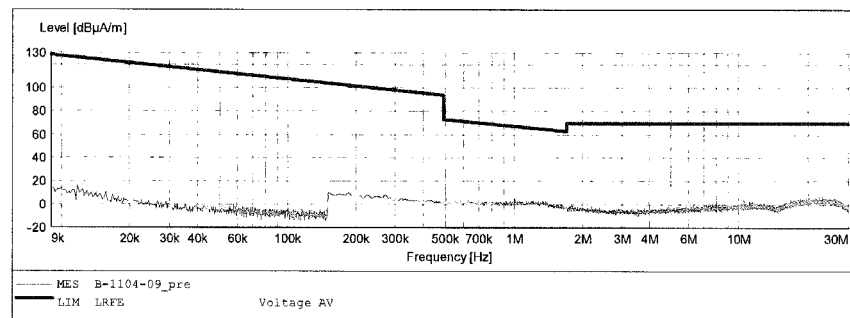
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
Manufacturer: Topband
Operating Condition: TX 2480MHz
Test Site: 2#Shielding Room
Operator: LAN
Test Specification: DC 12V
Comment: Z
Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70		
Start	Stop	Step	Detector	Meas. Time	IF Bandw. Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz 1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz 1516M



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1194

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

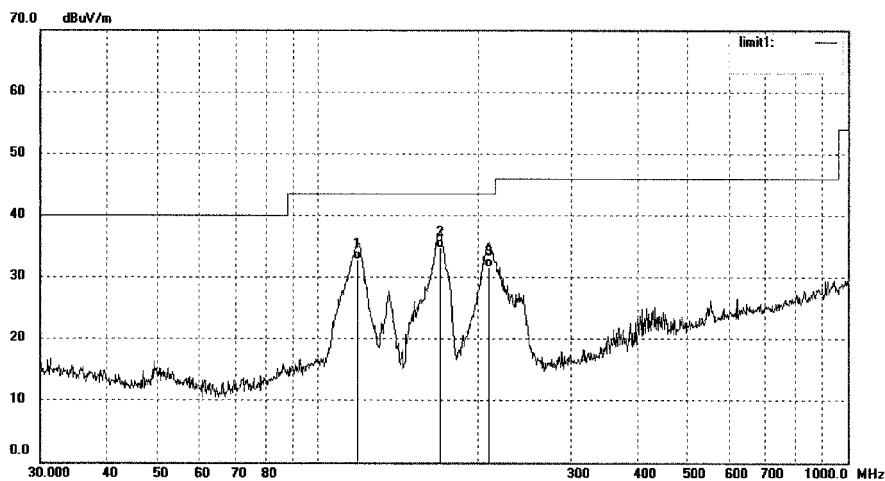
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.6012	45.87	-13.14	32.73	43.50	-10.77	QP			
2	170.1947	48.38	-13.68	34.70	43.50	-8.80	QP			
3	210.0482	43.73	-12.18	31.55	43.50	-11.95	QP			


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Job No.: LAN2014 #1195

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

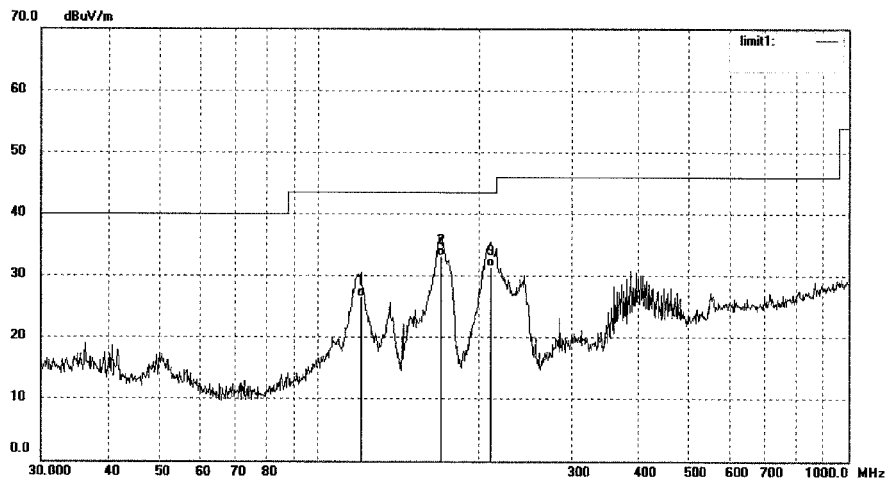
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	120.2766	39.67	-13.18	26.49	43.50	-17.01	QP			
2	170.1947	46.92	-13.68	33.24	43.50	-10.26	QP			
3	210.7860	43.52	-12.13	31.39	43.50	-12.11	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN2014 #1197

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2441MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

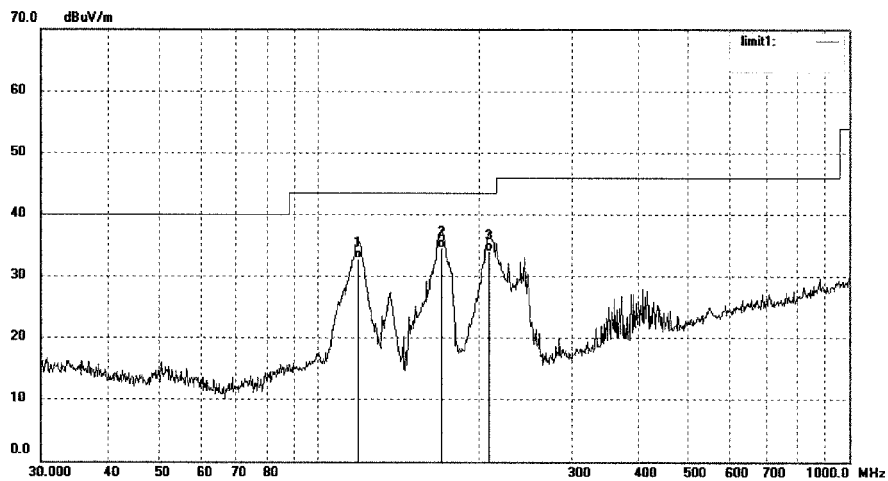
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Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.0180	46.05	-13.15	32.90	43.50	-10.60	QP			
2	170.1947	48.16	-13.68	34.48	43.50	-9.02	QP			
3	209.3129	46.30	-12.20	34.10	43.50	-9.40	QP			


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Fax:+86-0755-26503396

Job No.: LAN2014 #1196

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2441MHz

Model: 2592-202592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

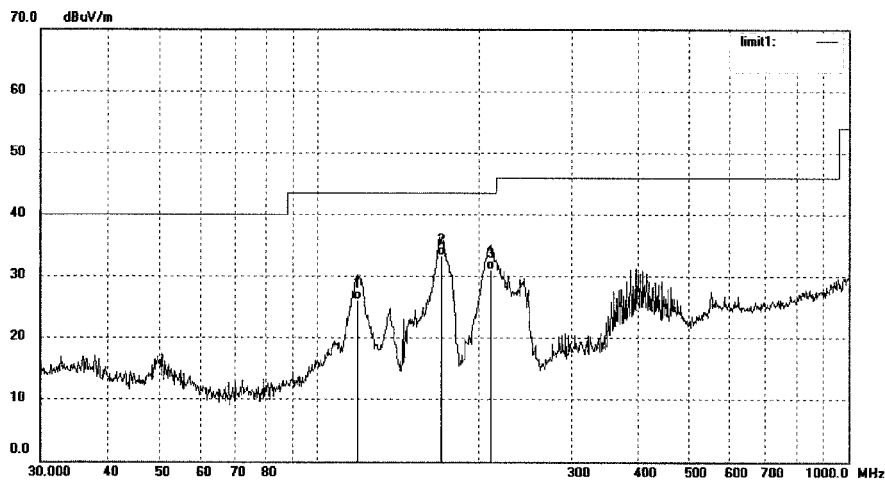
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Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.6013	39.35	-13.14	26.21	43.50	-17.29	QP			
2	170.1947	46.94	-13.68	33.26	43.50	-10.24	QP			
3	211.5264	43.24	-12.09	31.15	43.50	-12.35	QP			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1198

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

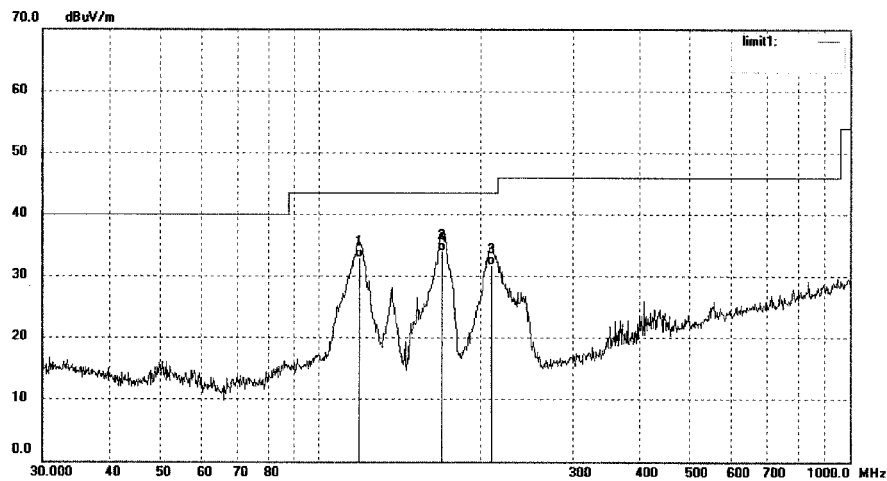
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Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.0180	46.16	-13.15	33.01	43.50	-10.49	QP			
2	169.5989	47.81	-13.74	34.07	43.50	-9.43	QP			
3	210.0482	43.86	-12.18	31.68	43.50	-11.82	QP			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN2014 #1199

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

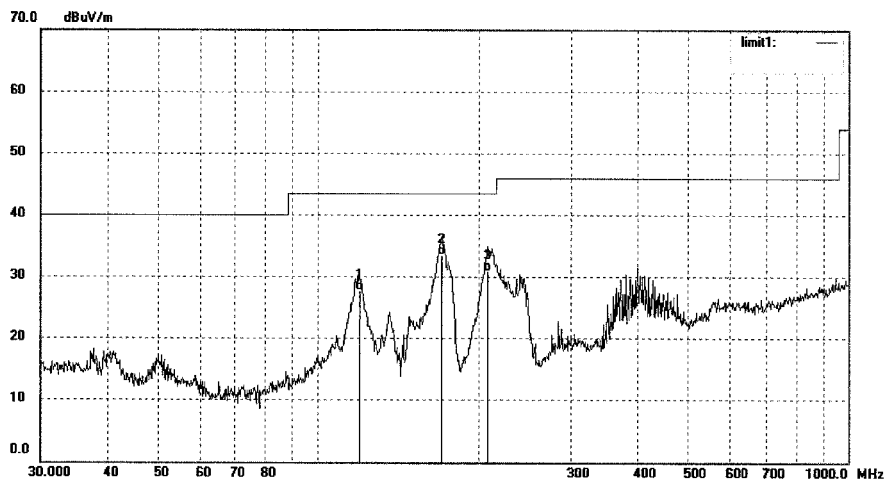
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8555	40.84	-13.15	27.69	43.50	-15.81	QP			
2	170.1947	47.12	-13.68	33.44	43.50	-10.06	QP			
3	207.8500	43.06	-12.23	30.83	43.50	-12.67	QP			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1072

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

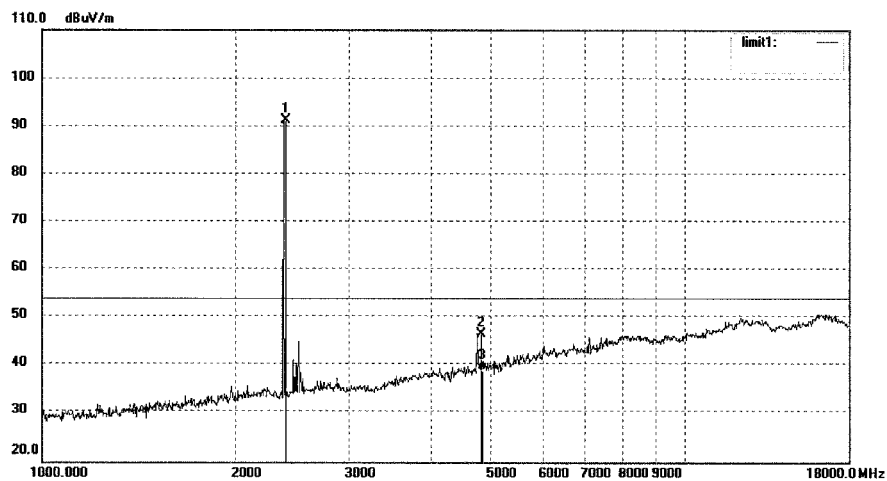
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	98.68	-7.49	91.19	/	/	peak			
2	4804.012	46.49	0.25	46.74	74.00	-27.26	peak			
3	4804.012	38.76	0.25	39.01	54.00	-14.99	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN #1071

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

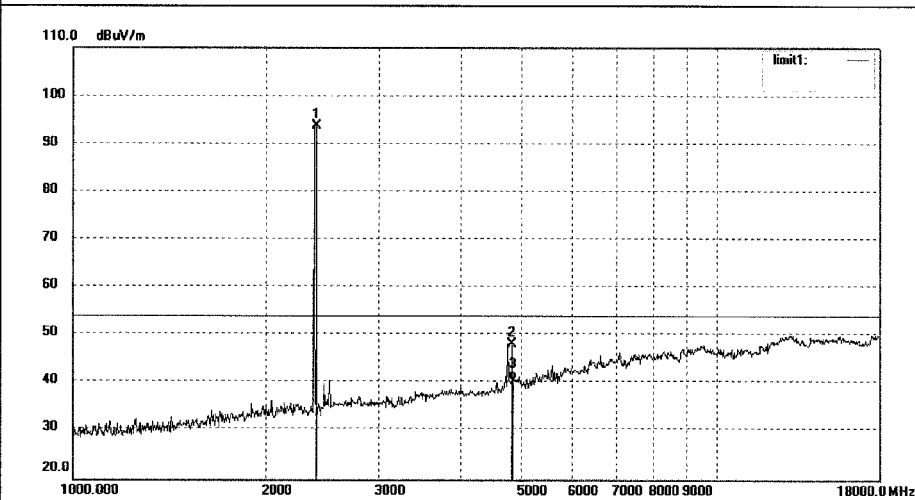
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	101.08	-7.49	93.59	/	/	peak			
2	4804.032	48.08	0.25	48.33	74.00	-25.67	peak			
3	4804.032	40.52	0.25	40.77	54.00	-13.23	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN #1076

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2441MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

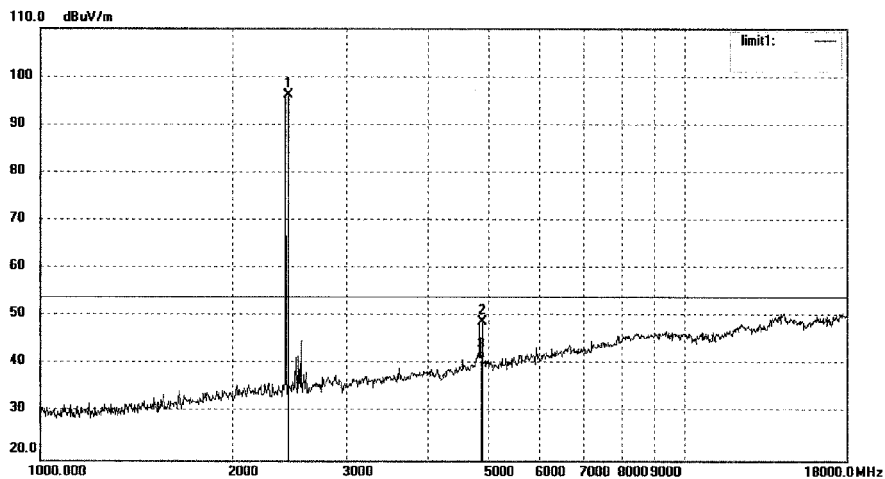
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	103.64	-7.37	96.27	/	/	peak			
2	4882.013	47.99	0.91	48.90	74.00	-25.10	peak			
3	4882.013	40.08	0.91	40.99	54.00	-13.01	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1075

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2441MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

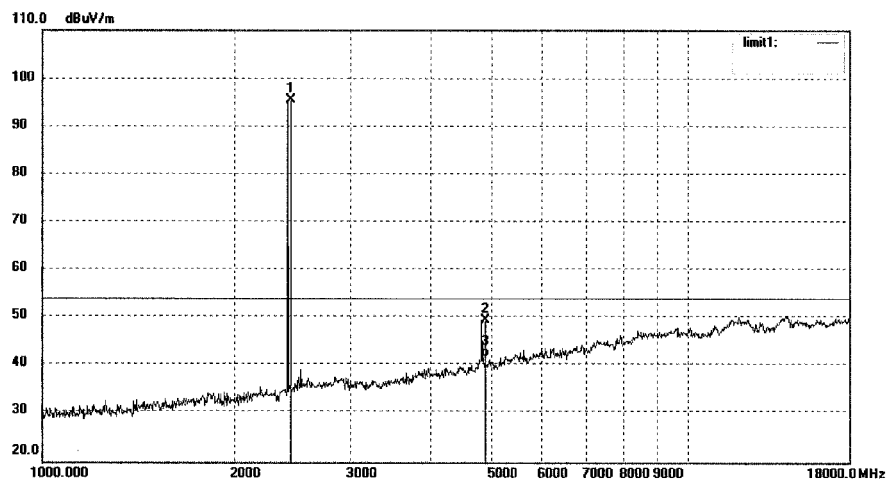
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2441.000	102.76	-7.37	95.39	/	/	peak			
2	4882.024	48.65	0.91	49.56	74.00	-24.44	peak			
3	4882.024	41.07	0.91	41.98	54.00	-12.02	AVG			


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Job No.: LAN #1077

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

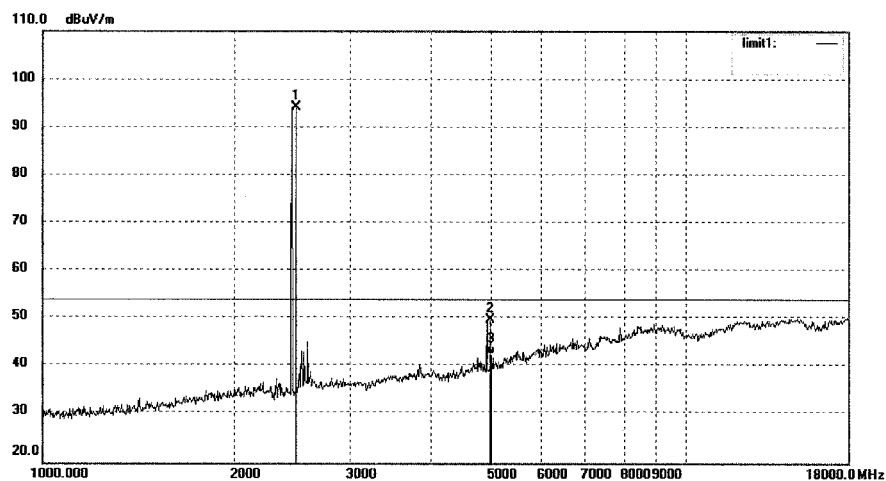
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	101.44	-7.38	94.06	/	/	peak			
2	4960.034	48.42	1.33	49.75	74.00	-24.25	peak			
3	4960.034	41.37	1.33	42.70	54.00	-11.30	AVG			


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Site: 2# Chamber

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Job No.: LAN #1078

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

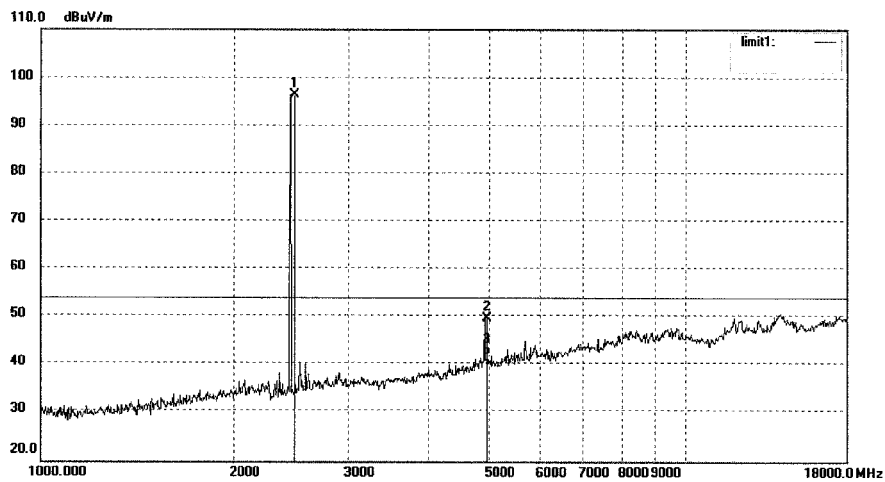
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	103.67	-7.38	96.29	/	/	peak			
2	4960.015	48.49	1.33	49.82	74.00	-24.18	peak			
3	4960.015	40.87	1.33	42.20	54.00	-11.80	AVG			

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2 #483

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

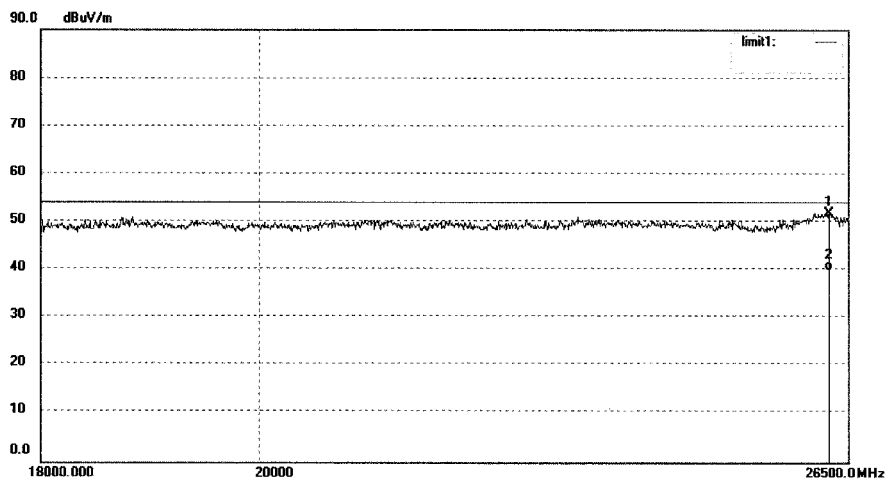
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26264.839	32.98	18.82	51.80	74.00	-22.20	peak			
2	26264.839	21.04	18.82	39.86	54.00	-14.14	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2 #482

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

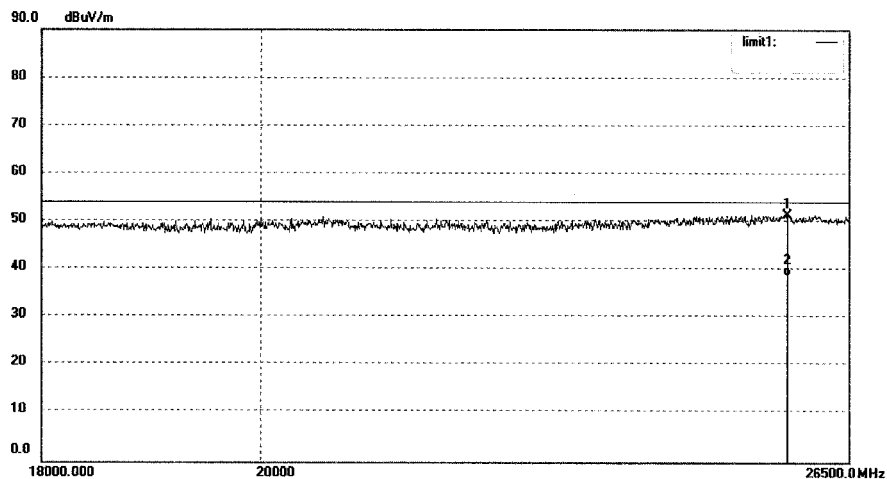
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Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth

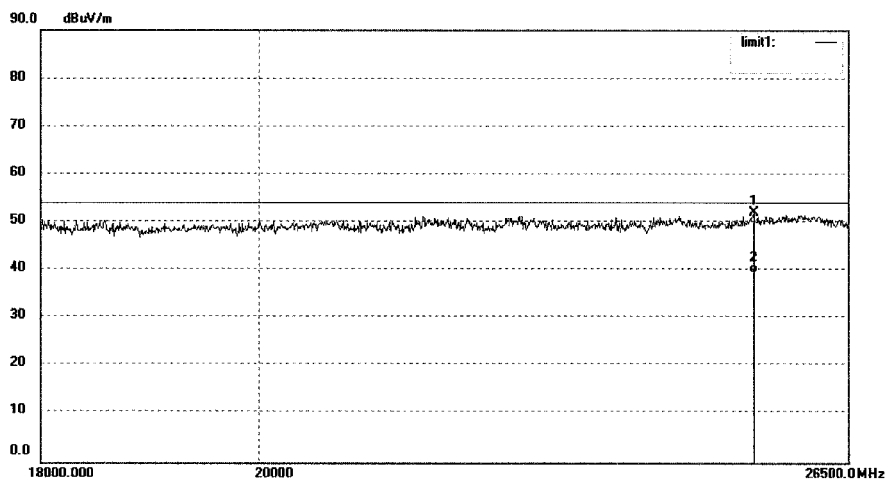


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25740.835	32.81	18.63	51.44	74.00	-22.56	peak			
2	25740.835	20.10	18.63	38.73	54.00	-15.27	AVG			


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Job No.: LAN2 #484	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 14/11/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless jobsite speaker	Engineer Signature:
Mode: TX 2441MHz	Distance: 3m
Model: 2592-20	
Manufacturer: Topband	
Note: Bluetooth	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25325.242	33.49	18.49	51.98	74.00	-22.02	peak			
2	25325.242	21.07	18.49	39.56	54.00	-14.44	AVG			


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Job No.: LAN2 #485

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2441MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

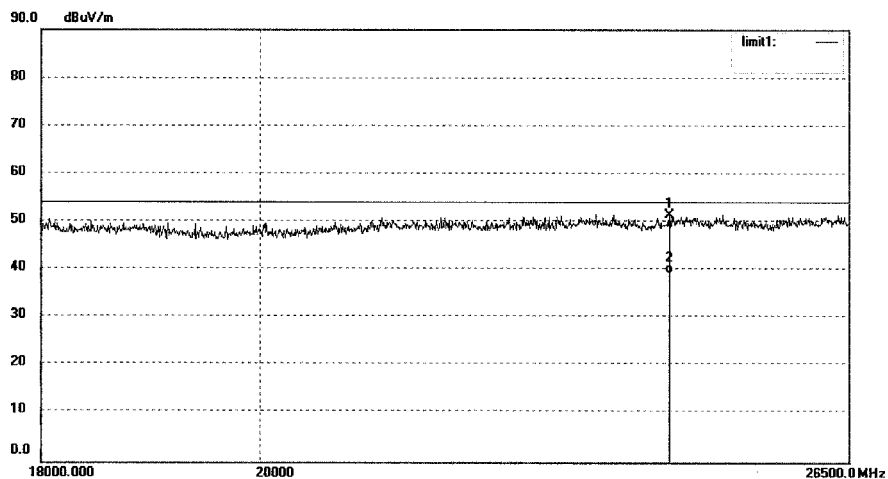
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24305.958	33.69	17.73	51.42	74.00	-22.58	peak			
2	24305.958	21.57	17.73	39.30	54.00	-14.70	AVG			


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Site: 2# Chamber

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Job No.: LAN2 #487

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

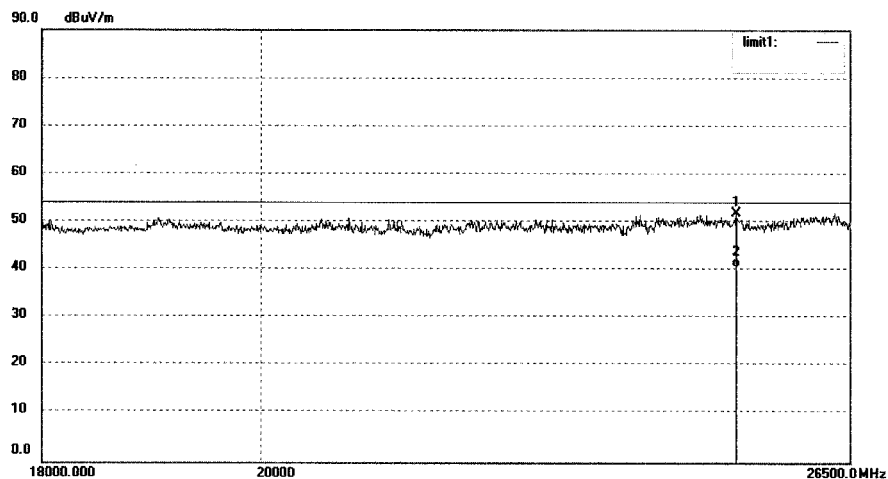
Date: 14/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25090.780	33.56	18.41	51.97	74.00	-22.03	peak			
2	25090.780	22.14	18.41	40.55	54.00	-13.45	AVG			

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Site: 2# Chamber

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Job No.: LAN2 #486

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

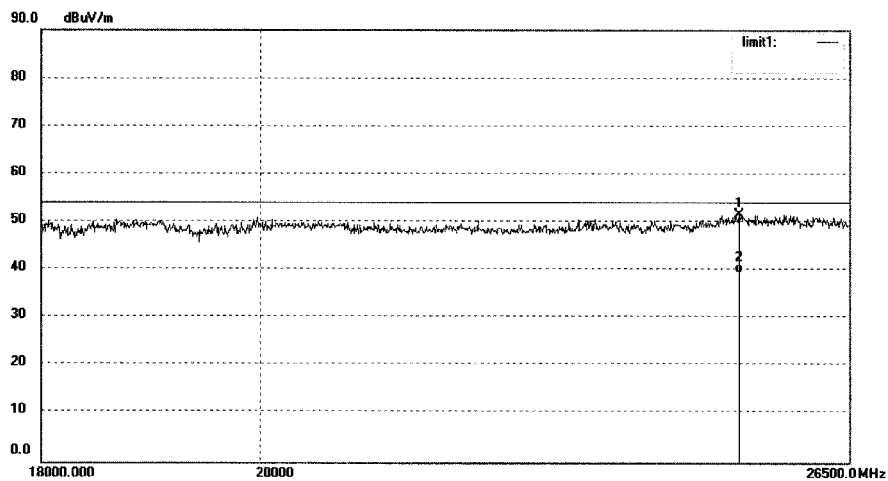
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25129.706	33.21	18.42	51.63	74.00	-22.37	peak			
2	25129.706	21.10	18.42	39.52	54.00	-14.48	AVG			

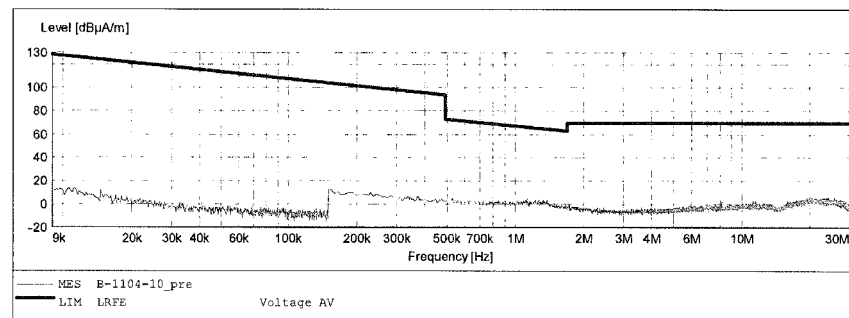
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M



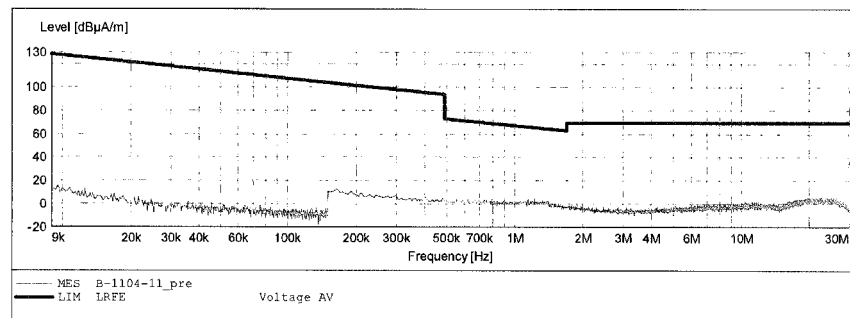
ACCURATE TECHNOLOGY CO.,LTD

FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70				
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M	
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M	

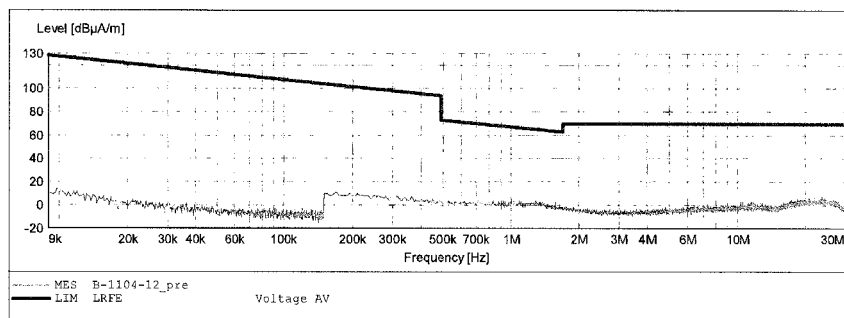


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2402MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

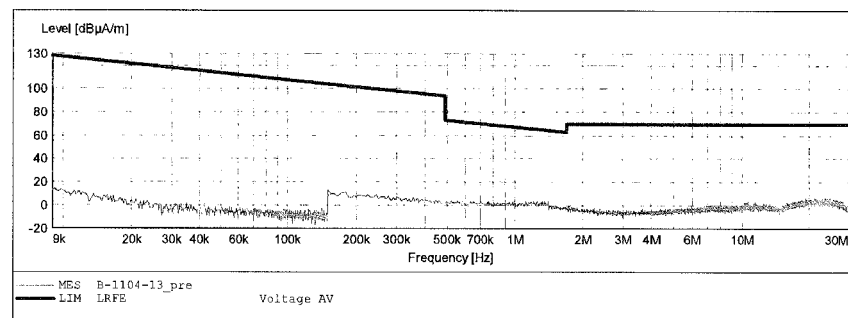


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2440MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

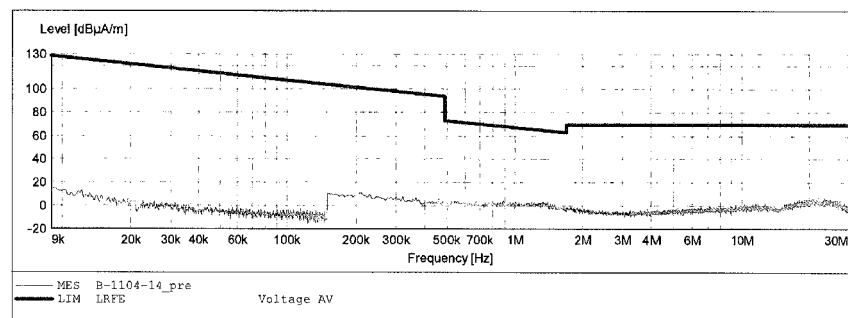


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2440MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

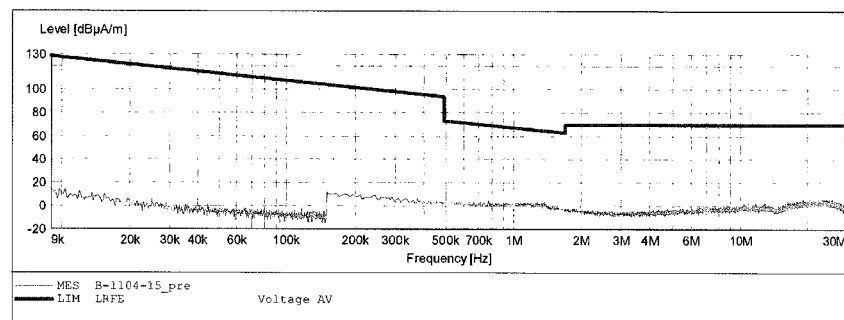


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2440MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas.	IF	Transducer
Frequency	Frequency	Width		Time	Bandw.	
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

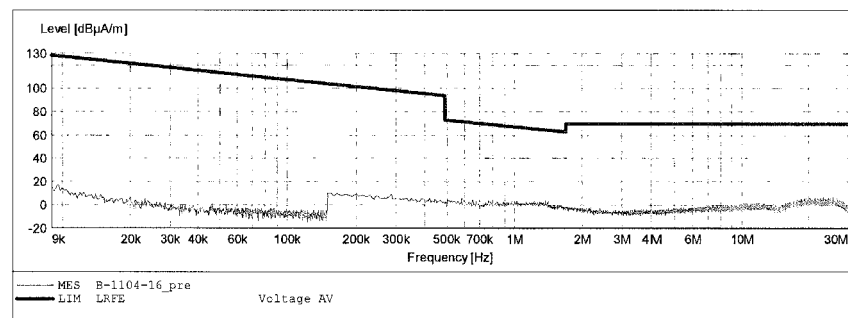


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: X
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

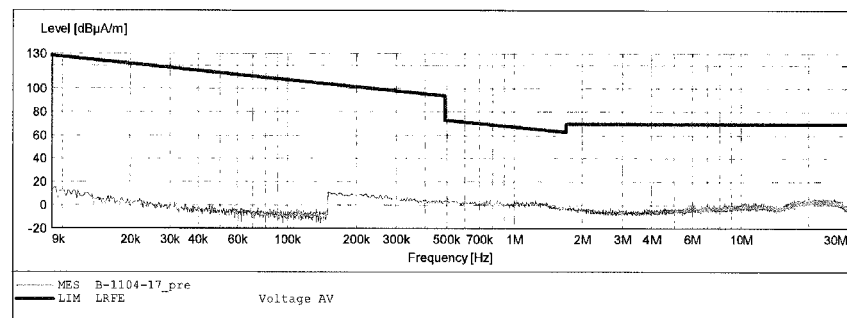


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Y
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			_SUB_STD_VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M

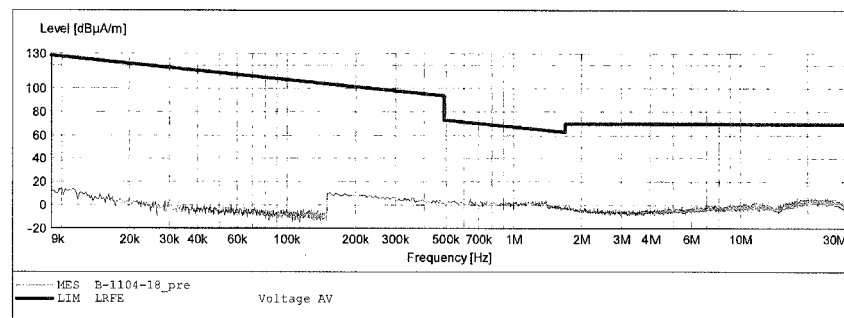


ACCURATE TECHNOLOGY CO.,LTD
FCC Class B 3M Radiated

EUT: Wireless jobsite speaker M/N:2592-20
 Manufacturer: Topband
 Operating Condition: TX 2480MHz
 Test Site: 1#Shielding Room
 Operator: LAN
 Test Specification: DC 12V
 Comment: Z
 Start of Test: 2014-11-04 /

SCAN TABLE: "LFRE Fin"

Short Description:			SUB STD VTERM2 1.70			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516M
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516M




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Job No.: LAN2014 #1201

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

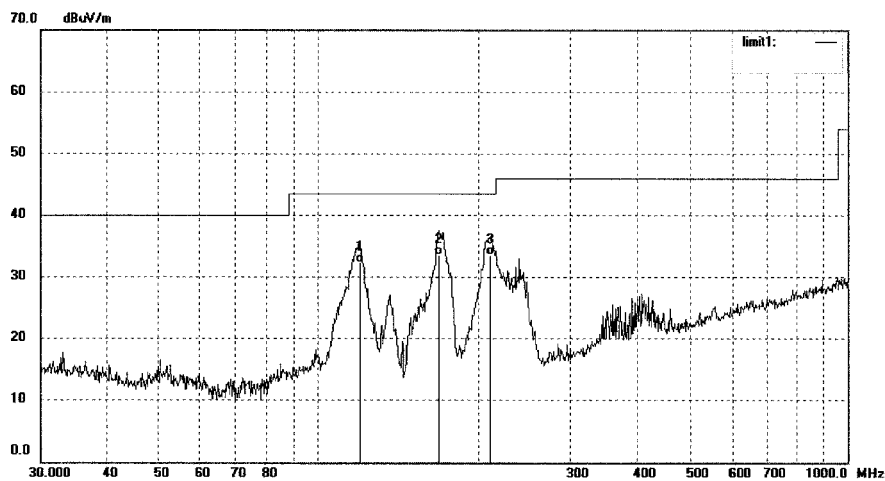
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8555	45.44	-13.15	32.29	43.50	-11.21	QP			
2	168.4138	47.45	-13.93	33.52	43.50	-9.98	QP			
3	210.7860	45.58	-12.13	33.45	43.50	-10.05	QP			


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Job No.: LAN2014 #1200

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

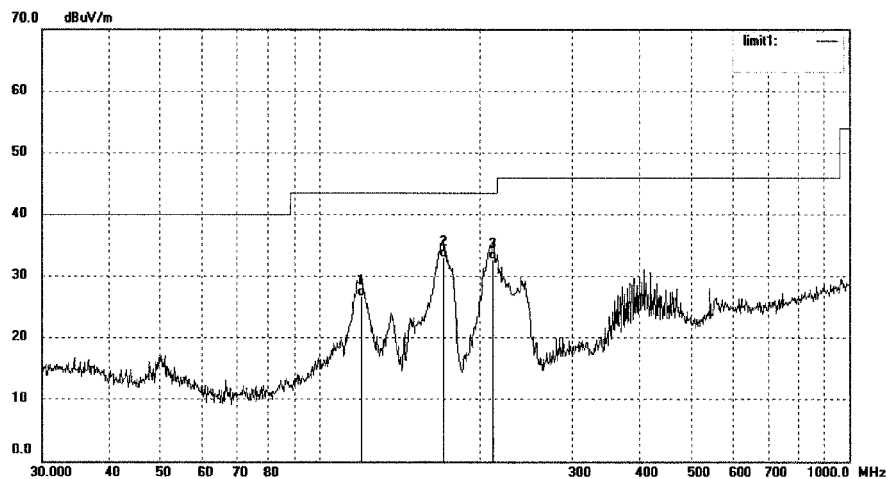
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8555	39.78	-13.15	26.63	43.50	-16.87	QP			
2	170.7925	46.63	-13.68	32.95	43.50	-10.55	QP			
3	212.2694	44.73	-12.04	32.69	43.50	-10.81	QP			


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Job No.: LAN2014 #1203

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2440MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

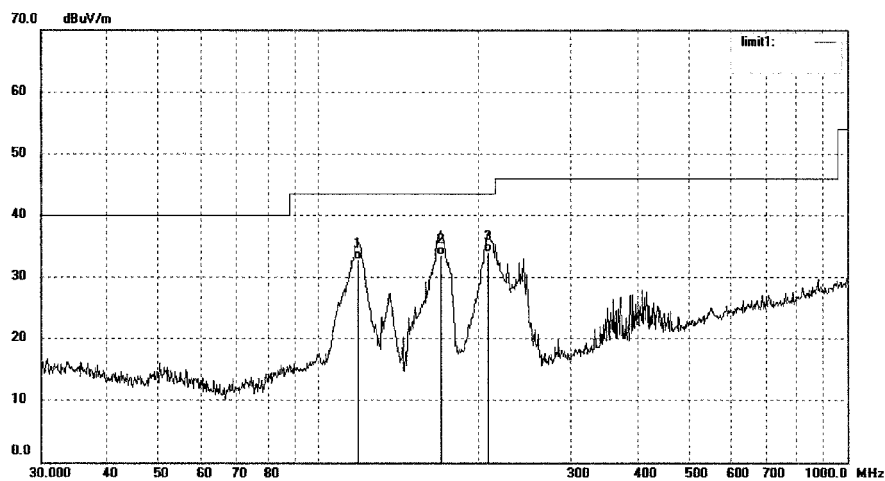
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Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.0180	46.05	-13.15	32.90	43.50	-10.60	QP			
2	170.1947	47.16	-13.68	33.48	43.50	-10.02	QP			
3	209.3129	46.30	-12.20	34.10	43.50	-9.40	QP			

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ACCURATE TECHNOLOGY CO., LTD.

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Job No.: LAN2014 #1202

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2440MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

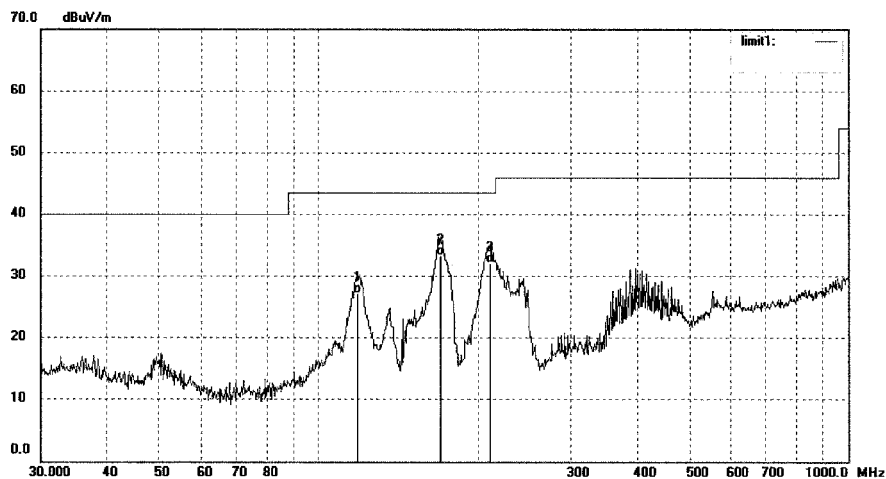
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



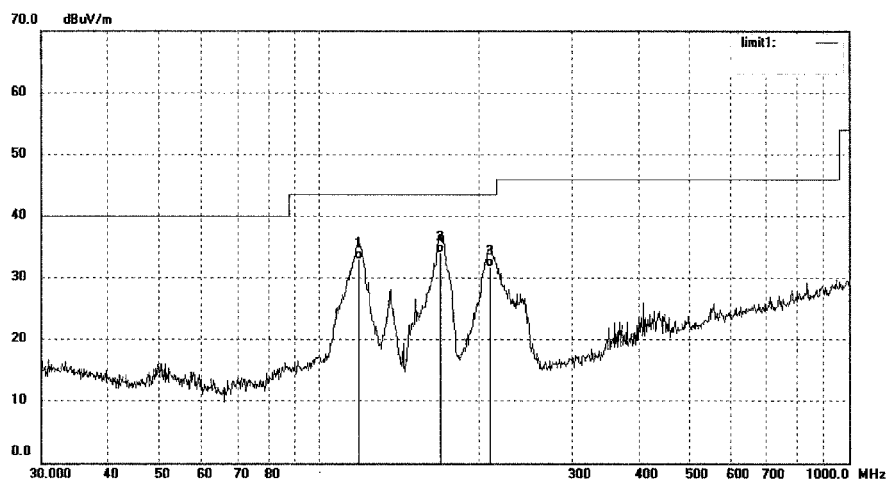
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	118.6012	40.35	-13.14	27.21	43.50	-16.29	QP			
2	170.1947	46.94	-13.68	33.26	43.50	-10.24	QP			
3	211.5261	44.24	-12.09	32.15	43.50	-11.35	QP			


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Job No.: LAN2014 #1204	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 14/11/04/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: Wireless jobsite speaker	Engineer Signature:
Mode: TX 2480MHz	Distance: 3m
Model: 2592-20	
Manufacturer: Topband	

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.0180	46.16	-13.15	33.01	43.50	-10.49	QP			
2	169.5988	47.81	-13.74	34.07	43.50	-9.43	QP			
3	210.0482	43.86	-12.18	31.68	43.50	-11.82	QP			


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Site: 2# Chamber

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Job No.: LAN2014 #1205

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

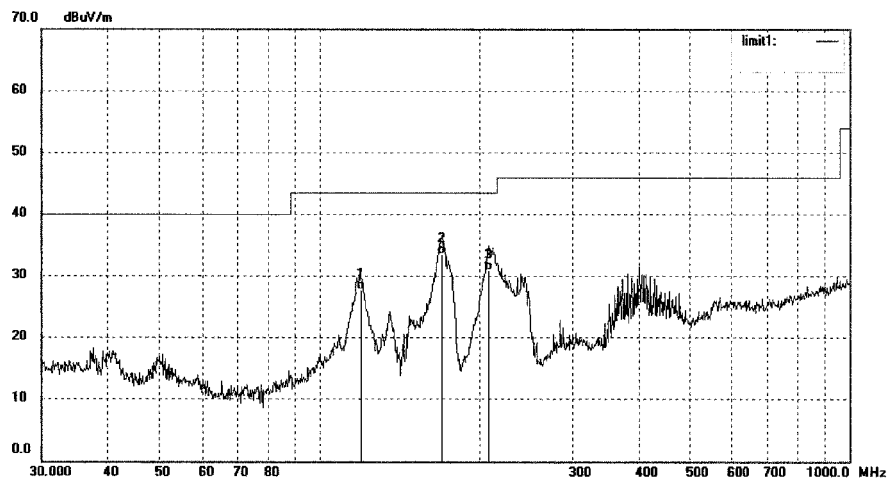
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.8555	40.84	-13.15	27.69	43.50	-15.81	QP			
2	170.1947	47.12	-13.68	33.44	43.50	-10.06	QP			
3	207.8498	43.06	-12.23	30.83	43.50	-12.67	QP			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1081

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

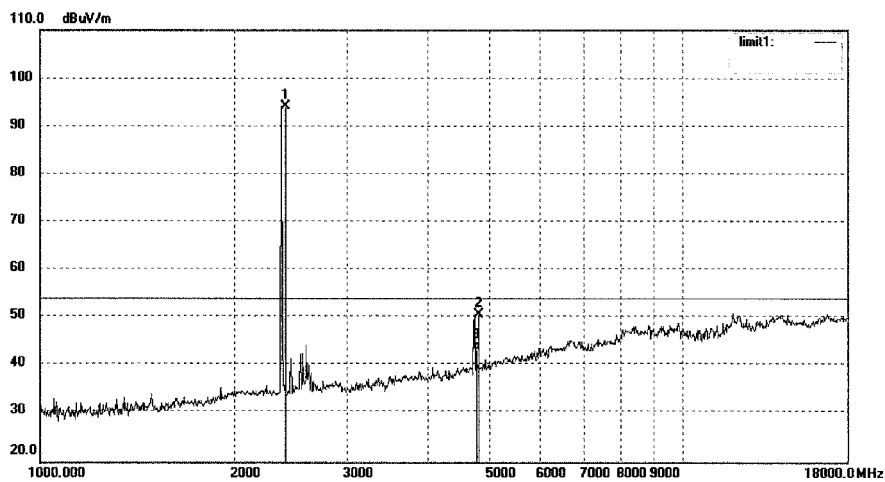
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	101.55	-7.49	94.06	/	/	peak			
2	4804.026	50.48	0.25	50.73	74.00	-23.27	peak			
3	4804.026	42.97	0.25	43.22	54.00	-10.78	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1082

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

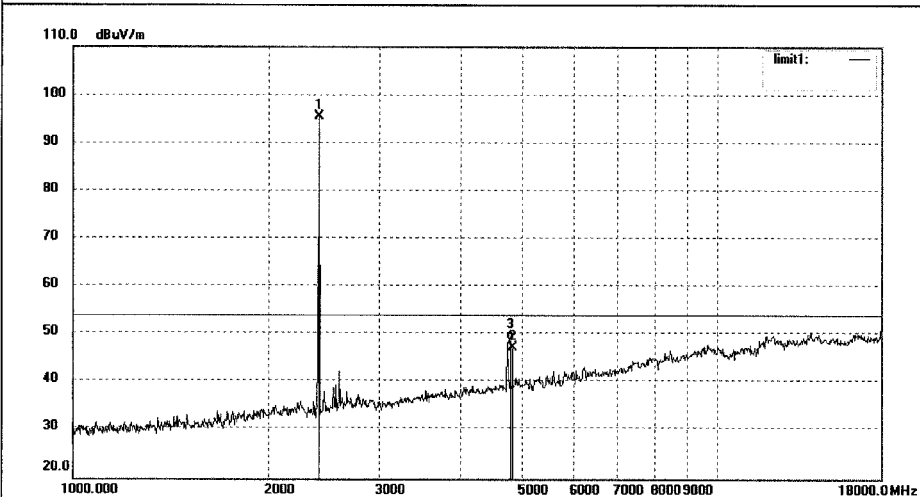
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2402.000	102.87	-7.49	95.38	/	/	peak			
2	4804.013	47.08	0.25	47.33	74.00	-26.67	peak			
3	4804.013	48.60	0.25	48.85	54.00	-5.15	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1085

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2440MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

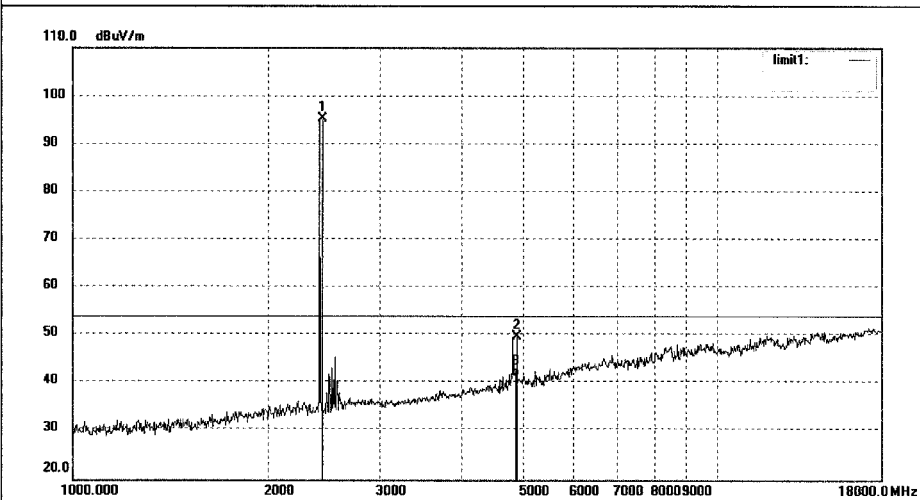
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	102.61	-7.38	95.23	/	/	peak			
2	4880.024	48.96	0.89	49.85	74.00	-24.15	peak			
3	4880.024	40.52	0.89	41.41	54.00	-12.59	AVG			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN #1086

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2440MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

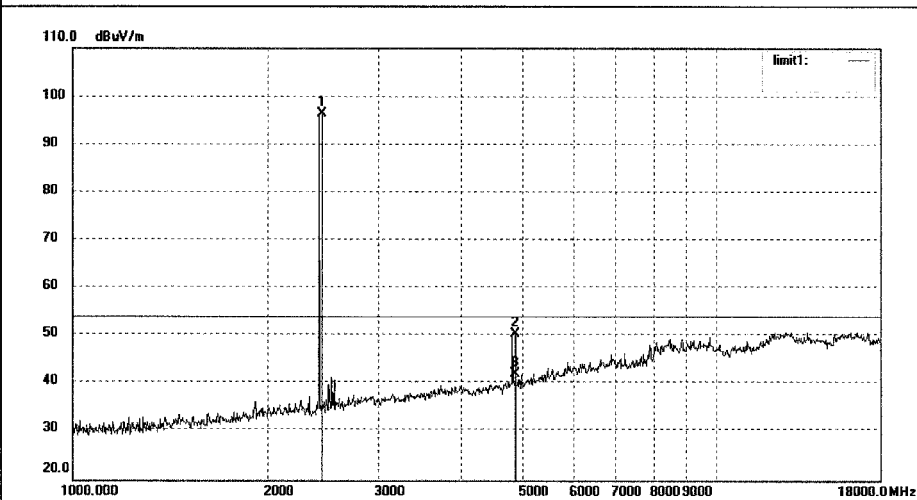
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.000	103.73	-7.38	96.35	/	/	peak			
2	4880.017	49.49	0.89	50.38	74.00	-23.62	peak			
3	4880.017	41.37	0.89	42.26	54.00	-11.74	peak			


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN #1088

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

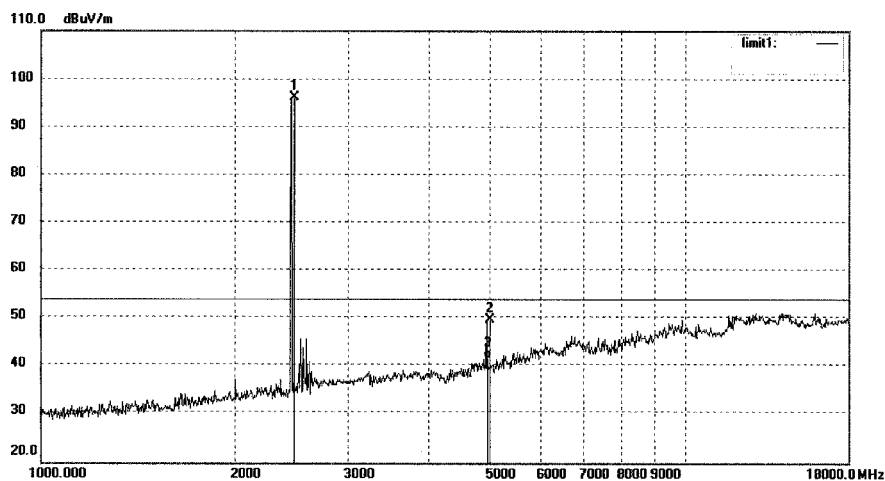
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	103.50	-7.38	96.12	/	/	peak			
2	4960.037	48.53	1.33	49.86	74.00	-24.14	peak			
3	4960.037	40.29	1.33	41.62	54.00	-12.38	AVG			


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Fax:+86-0755-26503396

Job No.: LAN #1087

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

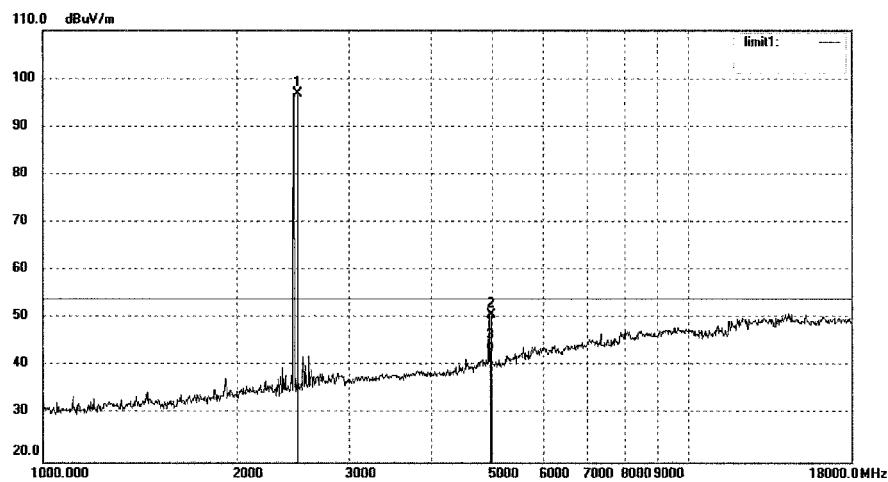
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	104.21	-7.38	96.83	/	/	peak			
2	4960.033	49.31	1.33	50.64	74.00	-23.36	peak			
3	4960.033	42.05	1.33	43.38	54.00	-10.62	AVG			


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Site: 2# Chamber

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Job No.: LAN2 #488

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

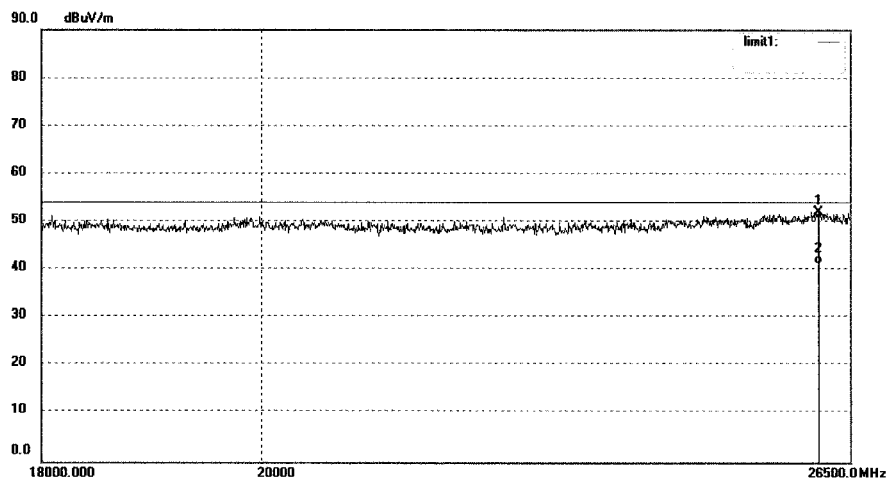
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26102.481	33.40	18.76	52.16	74.00	-21.84	peak			
2	26102.481	22.55	18.76	41.31	54.00	-12.69	AVG			

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Site: 2# Chamber

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Job No.: LAN2 #489

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

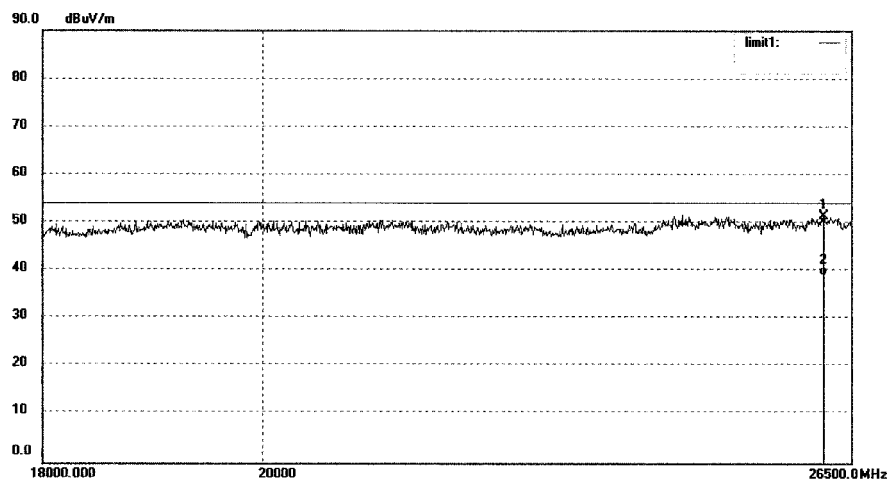
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26153.109	32.71	18.78	51.49	74.00	-22.51	peak			
2	26153.109	20.37	18.78	39.15	54.00	-14.85	AVG			

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Site: 2# Chamber

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Job No.: LAN2 #491

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2440MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

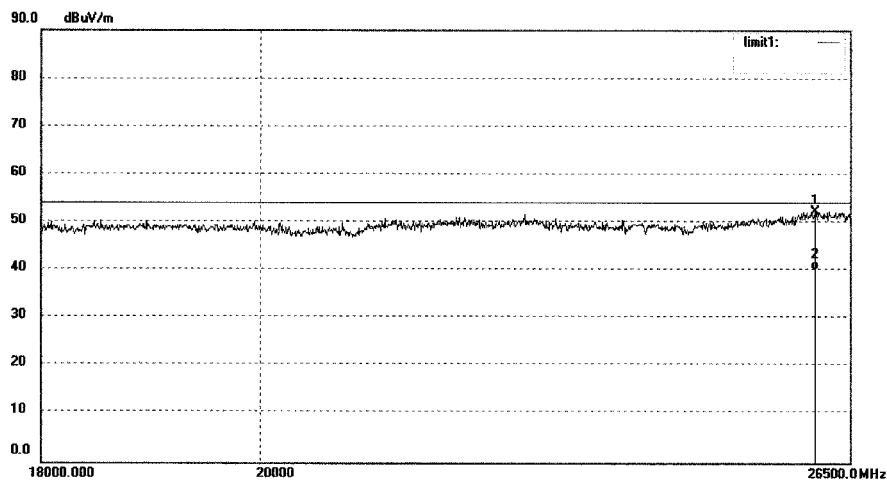
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26062.048	33.48	18.75	52.23	74.00	-21.77	peak			
2	26062.048	21.45	18.75	40.20	54.00	-13.80	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2 #490

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2440MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

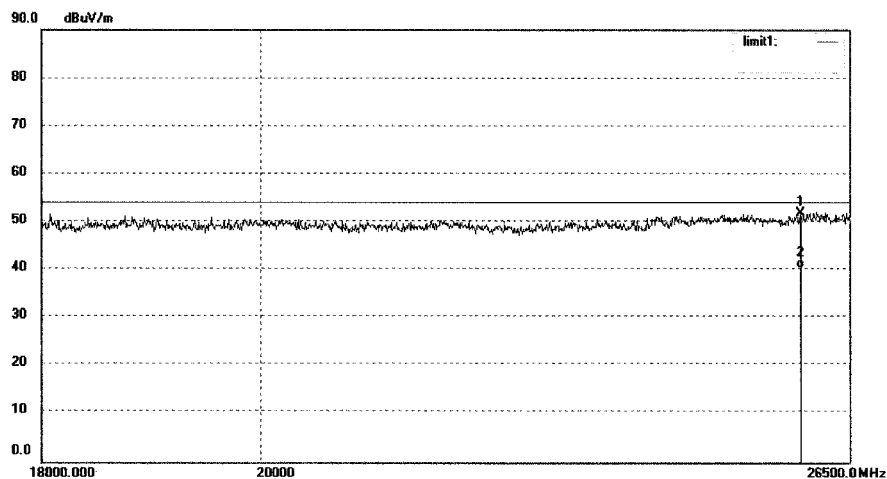
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	25880.875	33.27	18.68	51.95	74.00	-22.05	peak			
2	25880.875	21.79	18.68	40.47	54.00	-13.53	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2 #492

Standard: FCC Class B 3M Radiated

Test Item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

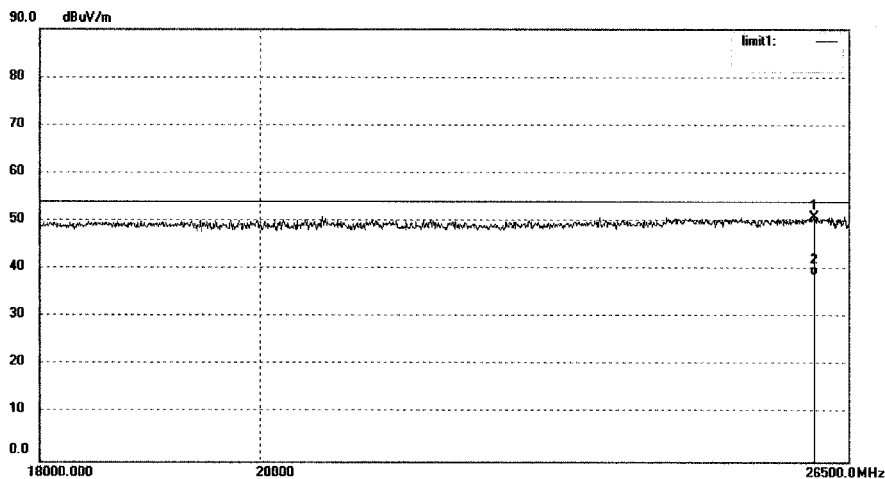
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26072.150	32.25	18.75	51.00	74.00	-23.00	peak			
2	26072.150	20.01	18.75	38.76	54.00	-15.24	AVG			


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Fax:+86-0755-26503396

Job No.: LAN2 #493

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

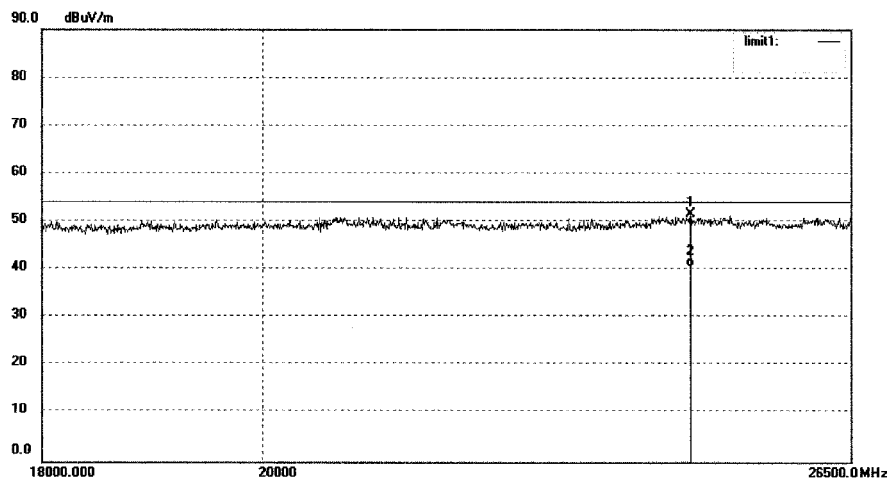
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24533.086	33.46	18.21	51.67	74.00	-22.33	peak			
2	24533.086	22.48	18.21	40.69	54.00	-13.31	AVG			

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Test Plot of Frequency Band Edge


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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN #1073

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

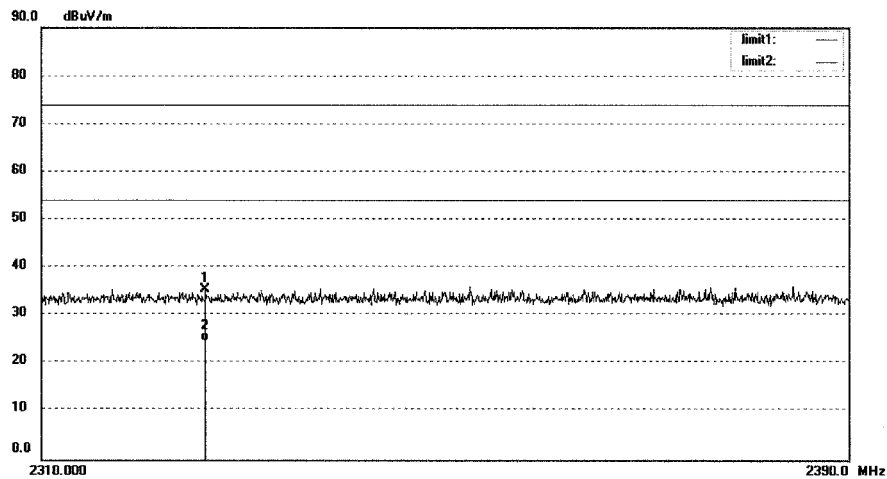
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2325.973	43.31	-7.82	35.49	74.00	-38.51	peak			
2	2325.973	32.43	-7.82	24.61	54.00	-29.39	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1074

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

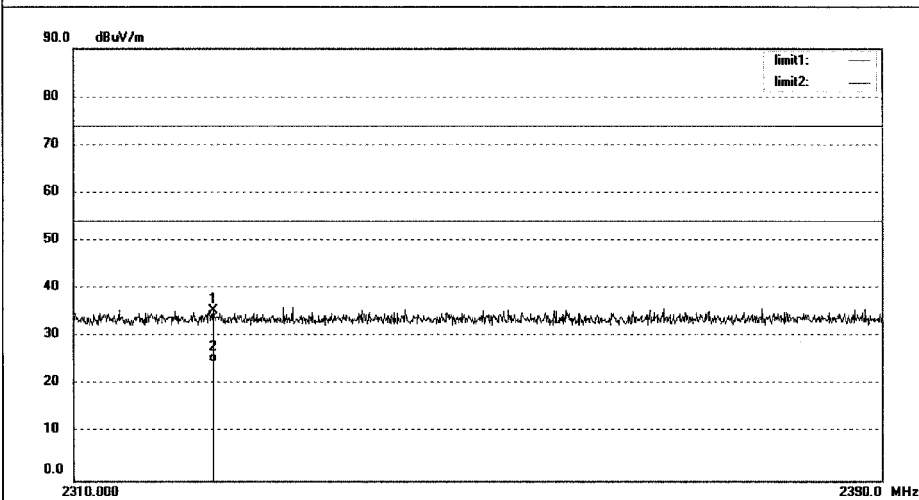
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2323.515	43.28	-7.82	35.46	74.00	-38.54	peak			
2	2323.515	32.55	-7.82	24.73	54.00	-29.27	AVG			


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Site: 2# Chamber

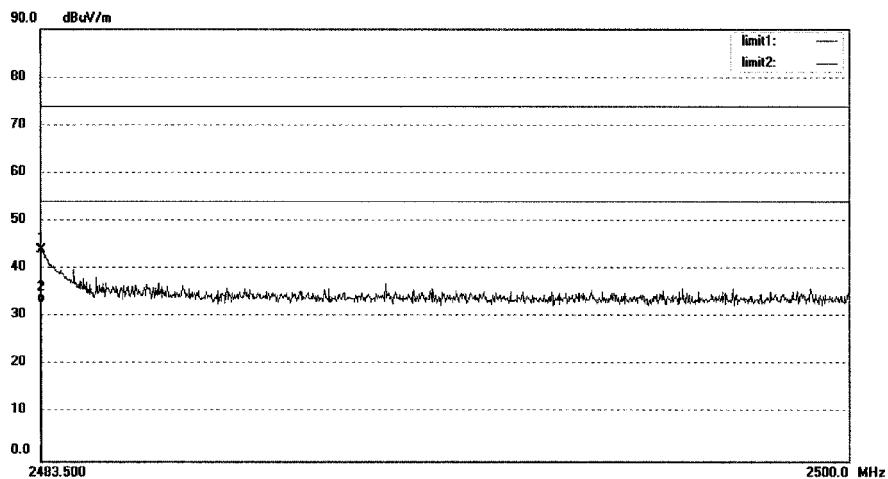
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1080
Standard: FCC (Band Edge)
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Wireless jobsite speaker
Mode: TX 2480MHz
Model: 2592-20
Manufacturer: Topband

Polarization: Horizontal
Power Source: DC 12V
Date: 14/11/04/
Time:
Engineer Signature:
Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.37	-7.38	43.99	74.00	-30.01	peak			
2	2483.500	40.39	-7.38	33.01	54.00	-20.99	AVG			

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: LAN #1079

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

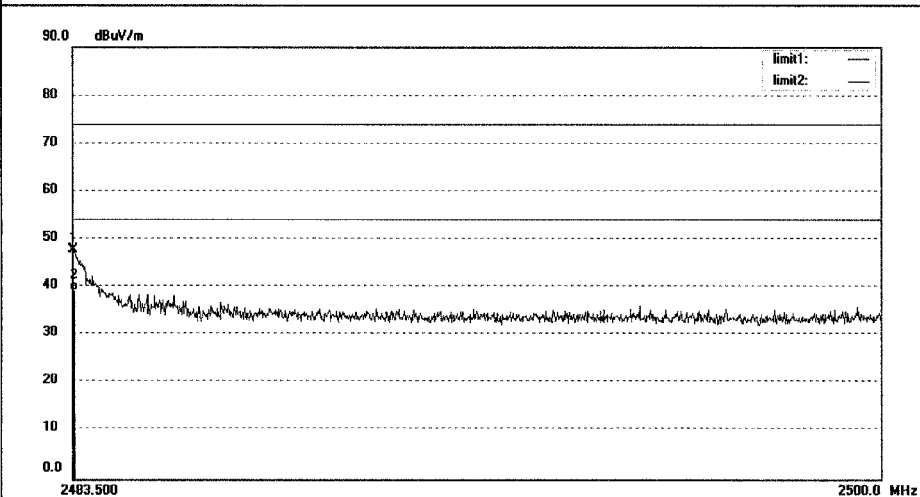
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.27	-7.38	47.89	74.00	-26.11	peak			
2	2483.500	46.62	-7.38	39.24	54.00	-14.76	AVG			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN #1084

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

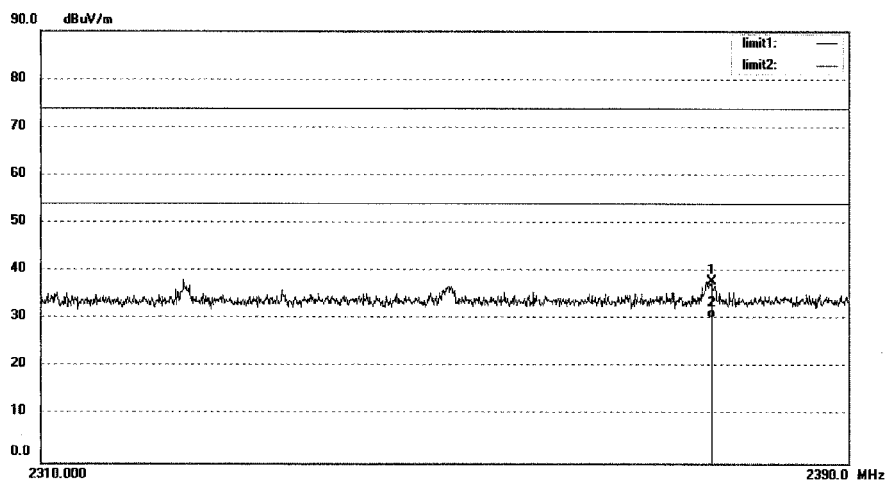
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2376.180	45.65	-7.67	37.98	74.00	-36.02	peak			
2	2376.180	37.94	-7.67	30.27	74.00	-43.73	QP			

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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: LAN #1083

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2402MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

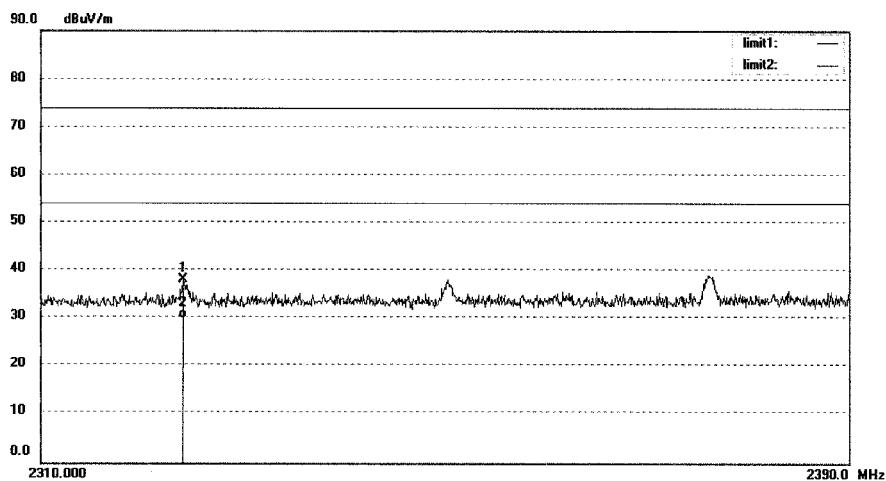
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2323.673	45.94	-7.82	38.12	74.00	-35.88	peak			
2	2323.673	37.81	-7.82	29.99	54.00	-24.01	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: LAN #1089

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Horizontal

Power Source: DC 12V

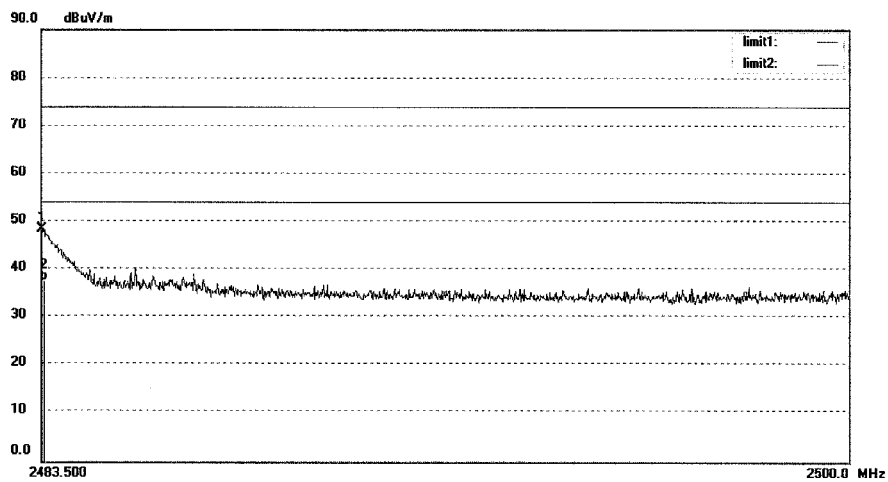
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.93	-7.38	48.55	74.00	-25.45	peak			
2	2483.500	45.02	-7.38	37.64	54.00	-16.36	AVG			


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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: LAN #1090

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Wireless jobsite speaker

Mode: TX 2480MHz

Model: 2592-20

Manufacturer: Topband

Polarization: Vertical

Power Source: DC 12V

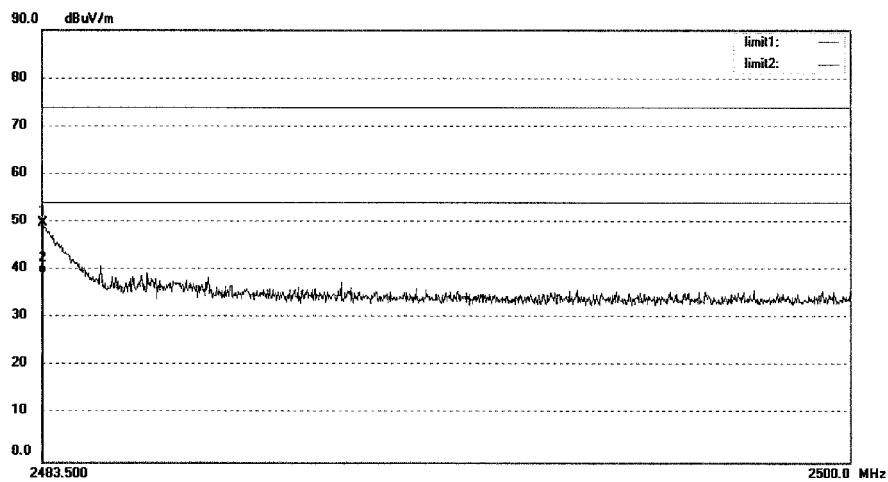
Date: 14/11/04/

Time:

Engineer Signature:

Distance: 3m

Note: Bluetooth 4.0



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.17	-7.38	49.79	74.00	-24.21	peak			
2	2483.500	46.60	-7.38	39.22	54.00	-14.78	AVG			

5.1.8 Frequency Separation

RESULT:
Pass

Date of testing : 2014-11-01
 Test standard : FCC part 15.247(a)(1)
 Basic standard : ANSI C63.4: 2003
 Limit : $\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth,
 whichever is greater
 Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 24°C
 Relative humidity : 48%
 Atmospheric pressure : 101kPa

Table 14: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2479	1.002	$\geq 25\text{kHz}$ or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2480			

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5.1.9 Number of hopping frequency**RESULT:****Pass**

Date of testing : 2014-11-01
Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.4: 2003
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.1.a
Ambient temperature : 24°C
Relative humidity : 48%
Atmospheric pressure : 101kPa

Table 15: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480MHz	79	≥ 15	Pass

5.1.10 Time of Occupancy

RESULT:
Pass

Date of testing : 2014-11-01
 Test standard : FCC part 15.247(a)(1)(iii)
 Basic standard : ANSI C63.4: 2003
 Limits : 0.4s
 Kind of test site : Shield room

Test setup

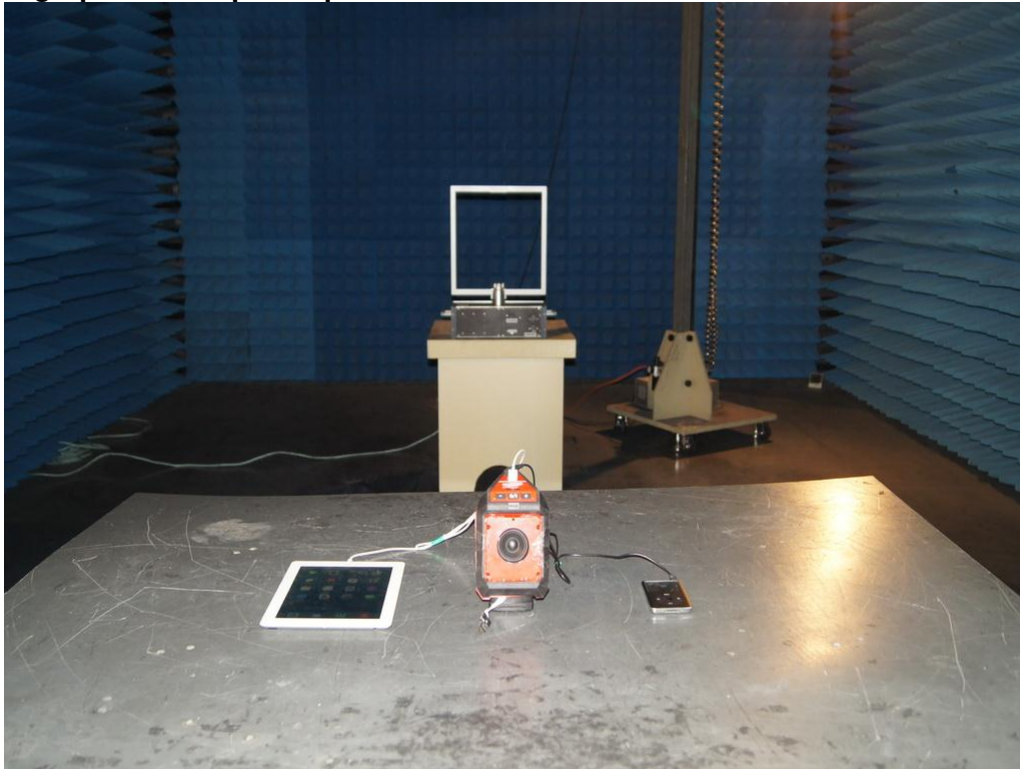
Test Channel : Low/ Middle/ High
 Operation Mode : A.1.a
 Ambient temperature : 24°C
 Relative humidity : 48%
 Atmospheric pressure : 101kPa

Table 16: Test result of Time of Occupancy

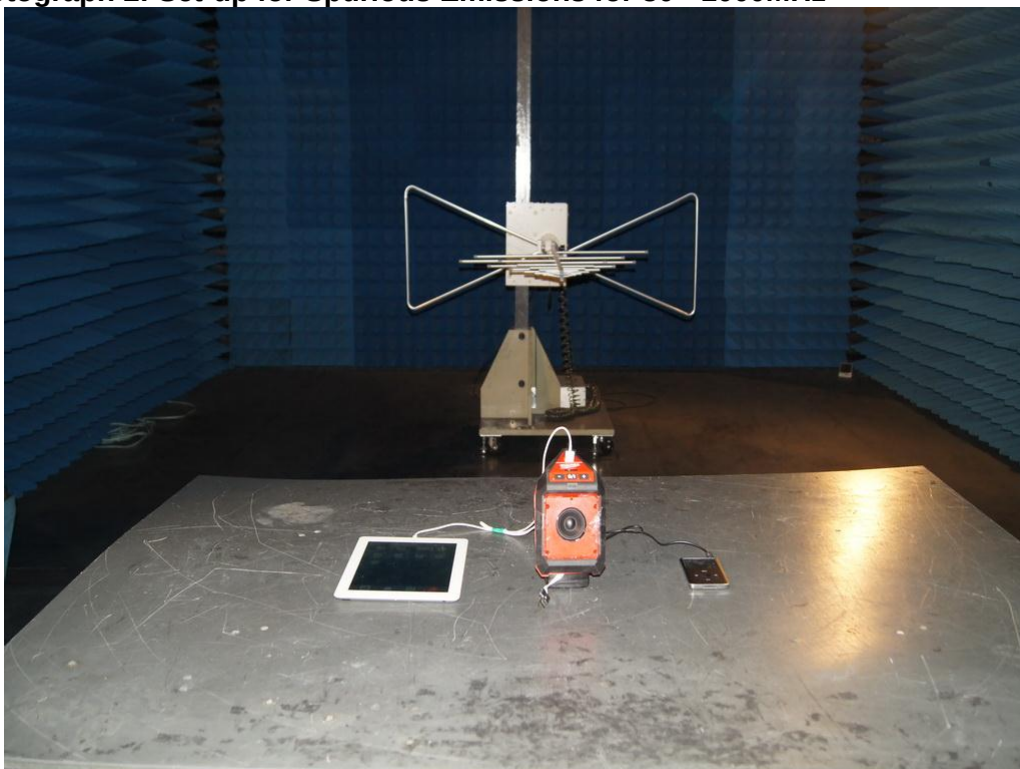
Mode	Packet Type	Channel Frequency (MHz)	Packet Duration [ms]	Number of Hops per Channel	Dwell Time (ms)	Limit [ms]
BDR	DH1	2402	0.44	322	141.68	400
		2441	0.44	321	141.24	400
		2480	0.44	322	141.68	400
	DH3	2402	1.72	168	288.96	400
		2441	1.72	167	287.24	400
		2480	1.72	168	288.96	400
	DH5	2402	3.01	111	334.11	400
		2441	3.01	111	334.11	400
		2480	3.01	112	337.12	400
EDR	DH1	2402	0.46	322	148.12	400
		2441	0.46	322	148.12	400
		2480	0.46	321	147.66	400
	DH3	2402	1.74	168	292.32	400
		2441	1.74	167	290.58	400
		2480	1.74	168	292.32	400
	DH5	2402	3.00	112	336.00	400
		2441	3.00	111	333.00	400
		2480	3.00	111	333.00	400

6. Photographs of the Test Set-Up

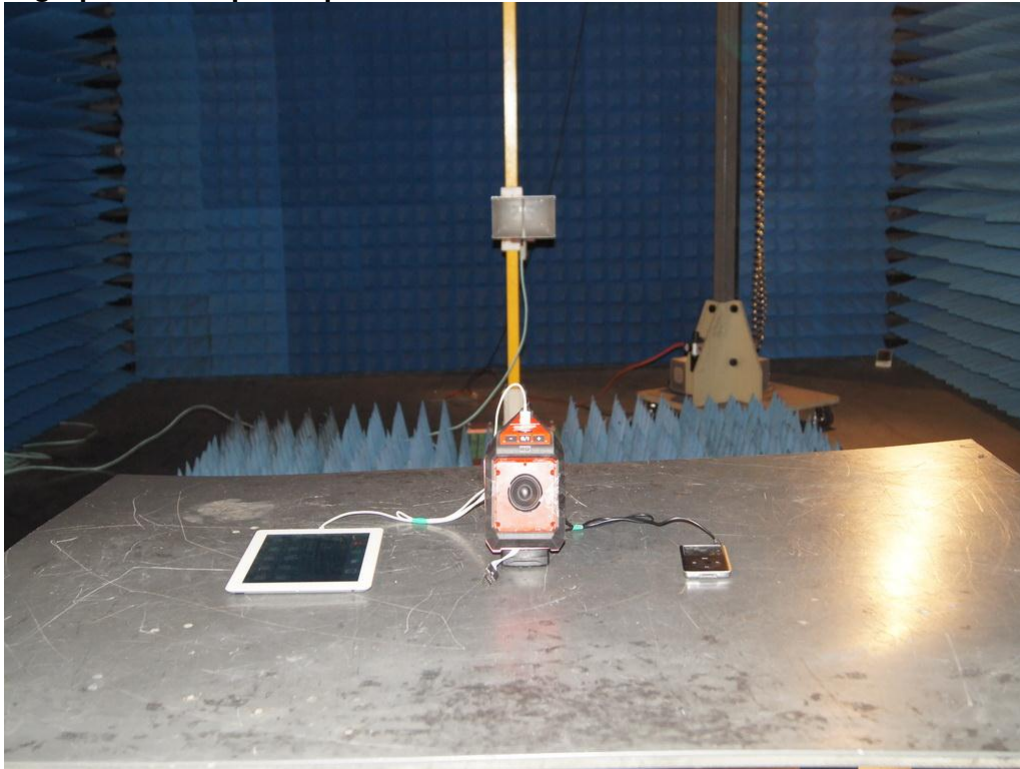
Photograph 1: Set-up for Spurious Emissions for below 30MHz



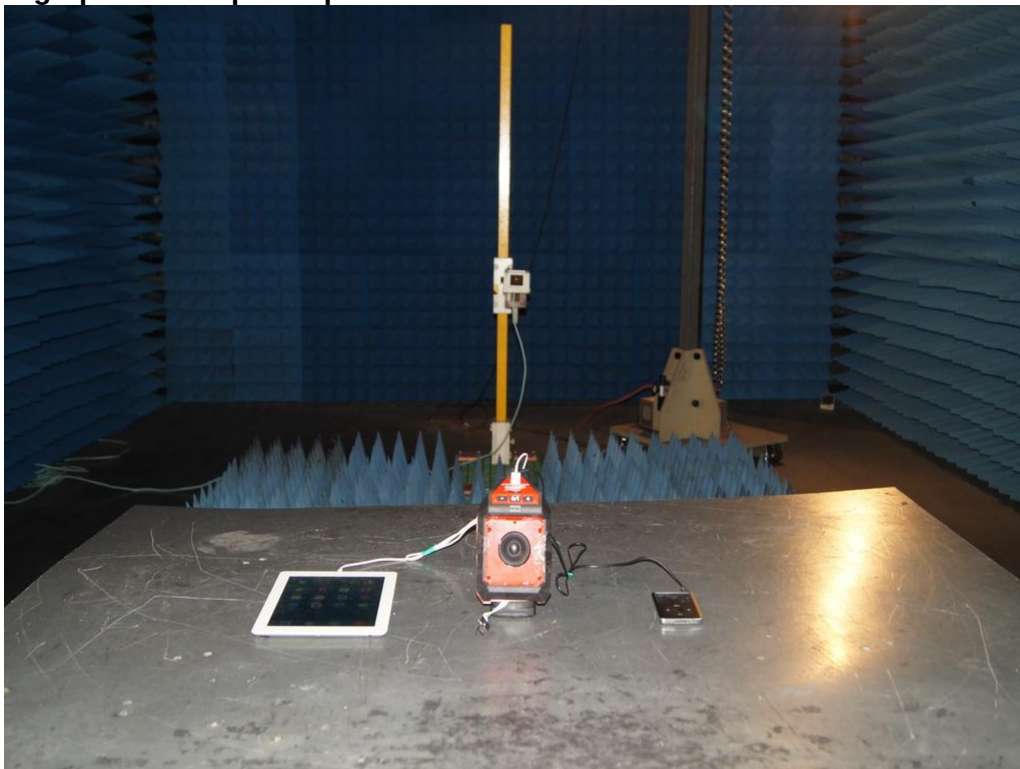
Photograph 2: Set-up for Spurious Emissions for 30 - 1000MHz



Photograph 3: Set-up for Spurious Emissions for 1 - 18GHz



Photograph 4: Set-up for Spurious Emissions for 18 - 26.5GHz



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