FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

AMS DIFFUSION

Car RADIO Player

Model Number: CT412 BT

Additional Model: FT412 BT, MF412 BT, VT412 BT, CT412 BT Johnston,

CT412 BT CASE-IH, CT412 BT NH, CT412 BT STEYR, CT412 BT CASE-CE,

CT412 BT JCB

FCC ID: 2ADE7-412BT

Prepared By: AMS DIFFUSION

ZA du Chevalement, Rue des Galeries, 59286 ROOST WARENDIN,

FRANCE

Prepared By: EST Technology Co., Ltd.

Santun(guantai Road), Houjie Town, DongGuan City, GuangDong,

China.

Tel: 86-769-83081888-808

Report Number: ESTE-R1604020 Date of Test: April 06 ~ 19, 2016 Date of Report: April 19, 2016



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Test Report Verification

	rest Report verification
Applicant: Address:	AMS DIFFUSION ZA du Chevalement, Rue des Galeries , 59286 ROOST WARENDIN, FRANCE
Manufacturer Address:	Huizhou Foryou General Electronics Co., Ltd North Shangxia Road, Dongjiang Hi-tech Industry Park, Huizhou, Guangdong Province, 516005, PR China
E.U.T:	Car RADIO Player
Model Number:	CT412 BT
Additional Model:	FT412 BT、MF412 BT、VT412 BT、CT412 BT Johnston、 CT412 BT CASE-IH、CT412 BT NH、CT412 BT STEYR、 CT412 BT CASE-CE、CT412 BT JCB (Only models and trademarks are different, other is completely consistent)
Power Supply:	DC 12V
Test Voltage:	DC 12V
Trade Name:	AMS Fendt Massey Ferguson Valtra Jonhston Case iH Serial No.: New Holland Steyr Case Construction JCB
Date of Receipt:	April 06, 2016 Date of Test: April 06 ~ 19, 2016
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013
Test Result:	The device described above is tested by EST Technology Co., Ltd The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.
	Date: April 19, 2016
Prepared by:	Tested by: Approved by:
Ada	tom? Trementhe
Ada / Assistant	Tony. Tang/ Engineer IcemanHu / Manager
Other Aspects: None.	
Abbreviations: OK/P=pas	ssed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested
_	n a single evaluation of one sample of above mentioned products ,It is not permitted to without written approval of EST Technology Co., Ltd.



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name : Car RADIO Player

Model Number : CT412 BT

FCC ID : 2ADE7-412BT

Operation frequency : 2402MHz~2480MHz

Number of channel: 79

Antenna : Internal antenna, 0dBi gain

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

Sample Type : Prototype production

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
20dB Bandwidth	FCC Part 15: 15.215 DA 00-705	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10: 2013 DA 00-705	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) DA 00-705	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	N/A
Antenna requirement	FCC Part 15: 15.203	PASS

Note: 15.207 only signals conducted onto the AC power lines are required to be measured. The equipment is only DC power supply, so "Power Line Conducted Emissions" is not required.



2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA

Registration No.: L5288

Date of registration: December 07, 2015

Certificated by FCC, USA Registration No.: 989591

Date of registration: November 20, 2013

Certificated by Industry Canada Registration No.: 9405A-1

Date of registration: December 30, 2015

Certificated by VCCI, Japan

Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011

Certificated by Siemic, Inc. Registration No.: SLCN021

Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie Town, Dongguan,

Guangdong, China



2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.4. Assistant equipment used for test

2.4.1. N/A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground.EUT was be set into BT test mode by software before test.



(EUT: Car RADIO Player)

2.6. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
	Low	2402MHz
GFSK	Middle	2441MHz
	High	2480MHz
	Low	2402MHz
8-DPSK	Middle	2441MHz
	High	2480MHz

2.7. Channel List for Bluetooth

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)	No.	(MHz)	No.	(MHz)
1	2402	2	2403	3	2404	4	2405
5	2406	6	2407	7	2408	8	2409
9	2410	10	2411	11	2412	12	2413
13	2414	14	2415	15	2416	16	2417
17	2418	18	2419	19	2420	20	2421
21	2422	22	2423	23	2424	24	2425
25	2426	26	2427	27	2428	28	2429
29	2430	30	2431	31	2432	32	2433
33	2434	34	2435	35	2436	36	2437
37	2438	38	2439	39	2440	40	2441
41	2442	42	2443	43	2444	44	2445
45	2446	46	2447	47	2448	48	2449
49	2450	50	2451	51	2452	52	2453
53	2454	54	2455	55	2456	56	2457
57	2458	58	2459	59	2460	60	2461
61	2462	62	2463	63	2464	64	2465
65	2466	66	2467	67	2468	68	2469
69	2470	70	2471	71	2472	72	2473
73	2474	74	2475	75	2476	76	2477
77	2478	78	2479	79	2480	-	_



2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,15	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,15	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,15	1 Year

2.8.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4411B	MY5014069 7	June,28,15	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,15	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,15	1 Year

2.8.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK		BBHA9120D1 002	June,28,15	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,15	1 Year

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3. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

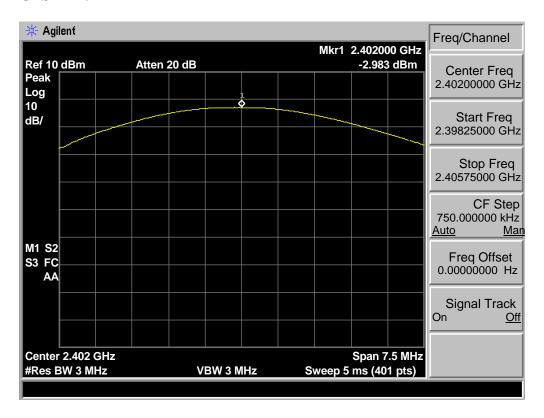
3.3. Test Result

EUT: Car RADIO Player							
M/N: CT412	M/N: CT412 BT						
Test date: 20	16-04-09	Test site: RF site	Tested b	y: Tony Tang	5		
Mode	Freq	Result	Limit		Margin		
Mode	(MHz)	(dBm)	dBm	W	(dB)		
	2402	-2.983	30.00	1	32.983		
GFSK	2441	-4.723	30.00	1	34.723		
	2480	-6.008	30.00	1	36.008		
	2402	-4.051	21.00	0.125	25.051		
8-DPSK	2441	-5.741	21.00	0.125	26.741		
	2480	-6.907	21.00	0.125	27.907		
Conclusion: PASS							

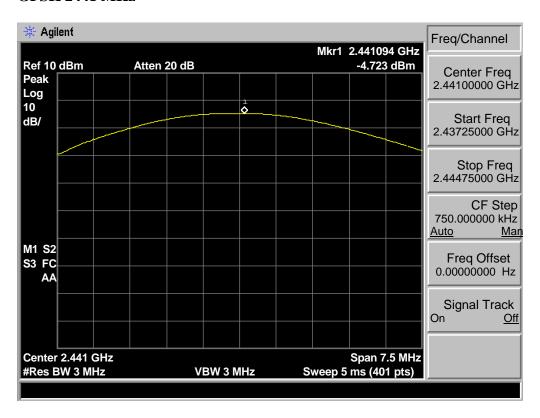
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3.4. Test Data

GFSK 2402 MHz

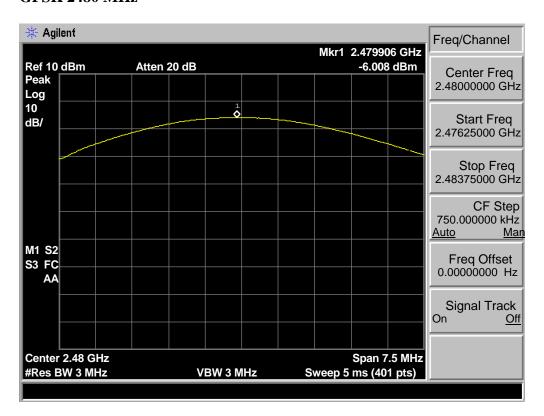


GFSK 2441 MHz



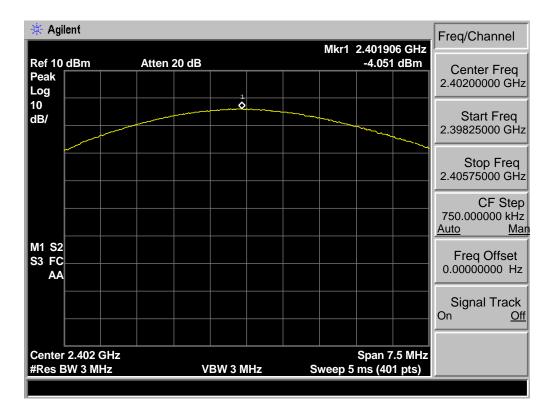


GFSK 2480 MHz

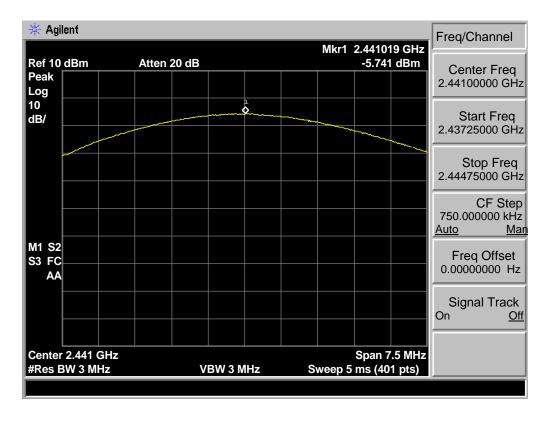




8-DPSK 2402 MHz

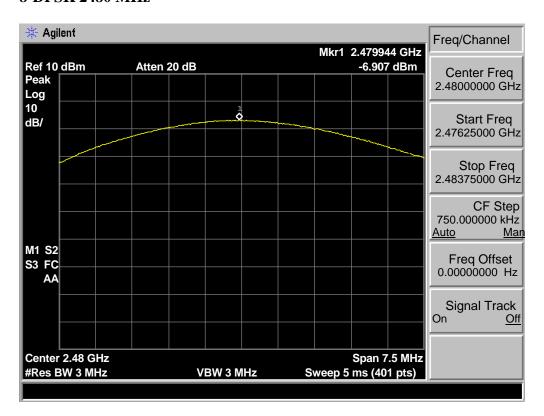


8-DPSK 2441 MHz





8-DPSK 2480 MHz





4. 20 DB BANDWIDTH

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.2. Test Procedure

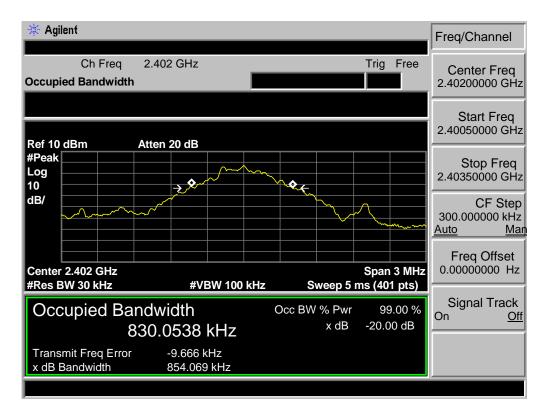
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

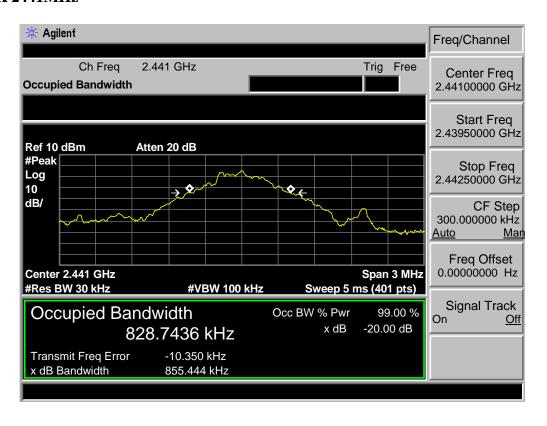
EUT: Car RADIO Player M/N: CT412 BT							
Test date: 2016-04-09 Test site: RF site Tested by: Tony Tang							
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion			
	2402	0.854	/	PASS			
GFSK	2441	0.855	/	PASS			
	2480	0.848	/	PASS			
	2402	1.210	/	PASS			
8-DPSK	2441	1.211	/	PASS			
	2480	1.214	/	PASS			

4.4. Test Data

GFSK 2402MHz

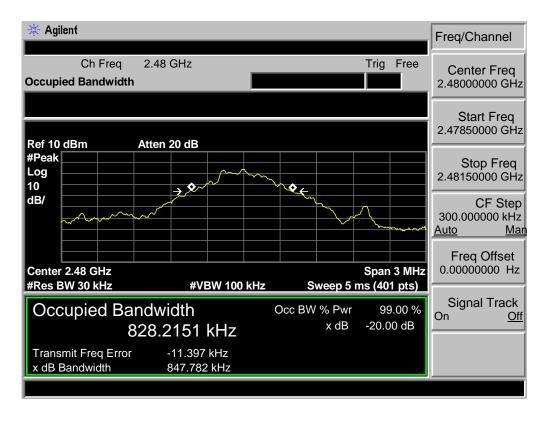


GFSK 2441MHz

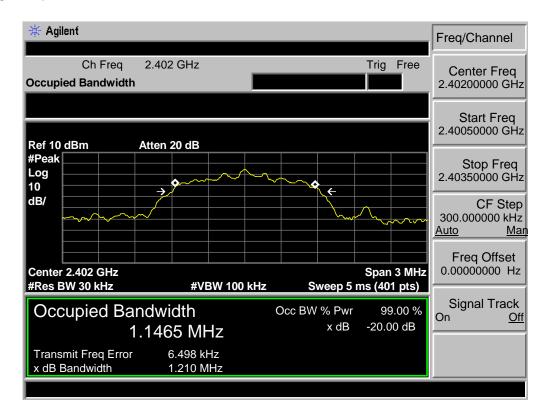




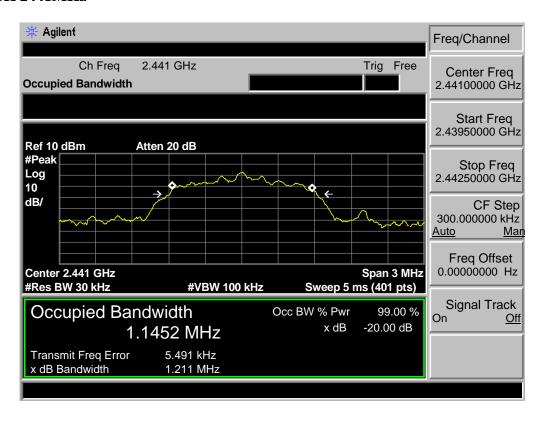
GFSK 2480MHz



8-DPSK 2402MHz

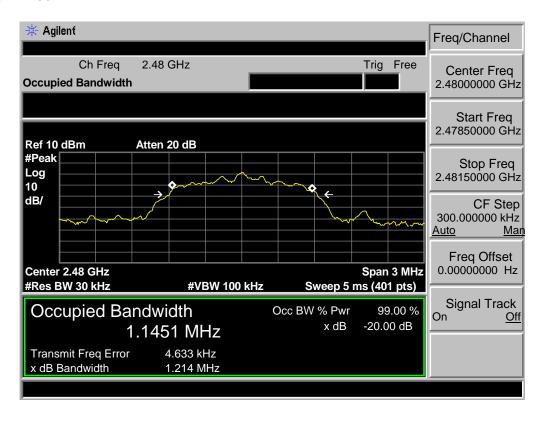


8-DPSK 2441MHz





8-DPSK 2480MHz



5. CARRIER FREQUENCY SEPARATION

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW.

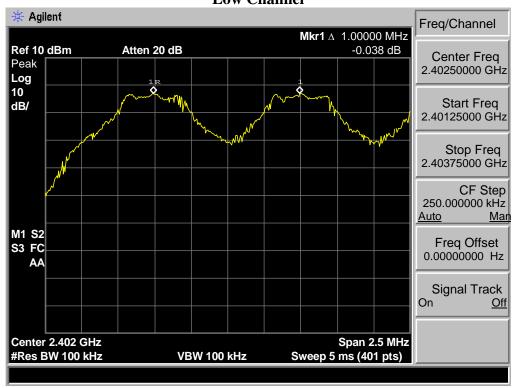
5.3. Test Result

EUT: Car RADIO Player				
M/N: CT412 BT				
Test date: 2016-04-09			Test site: RF site Tested by: Tony Tang	
Mode	Channel	Channel separation (MHz)	Limit	Conclusion
	Low CH	1.000	0.854 MHz	PASS
GFSK	Mid CH	1.000	0.855 MHz	PASS
	High CH	1.000	0.848 MHz	PASS
8-DPSK	Low CH	1.000	> 2/3 of the 20dB Bandwidth or 25[kHz](whichever is greater)	PASS
	Mid CH	1.000		PASS
	High CH	1.000		PASS

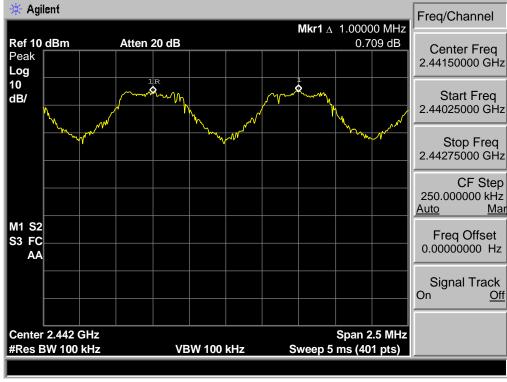


5.4. Test Data

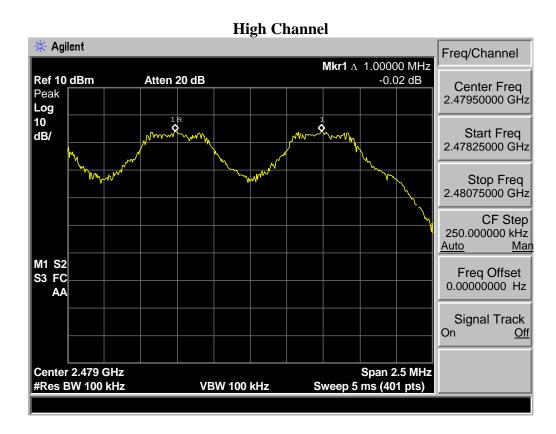
GFSKLow Channel



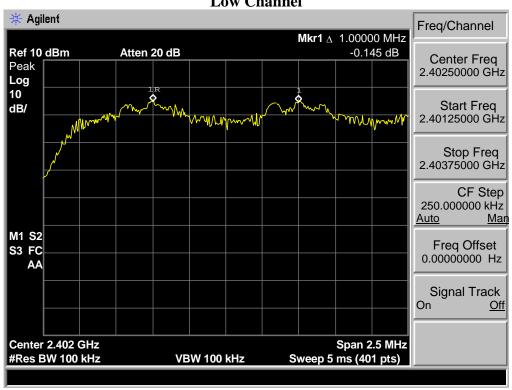
Mid Channel



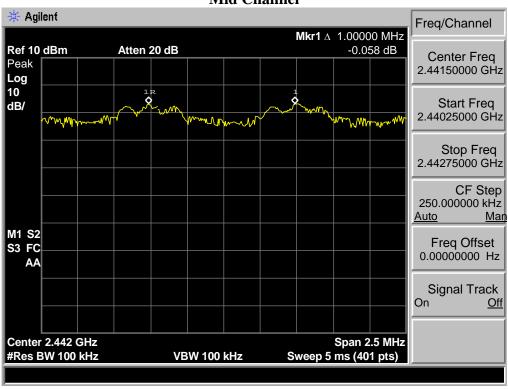




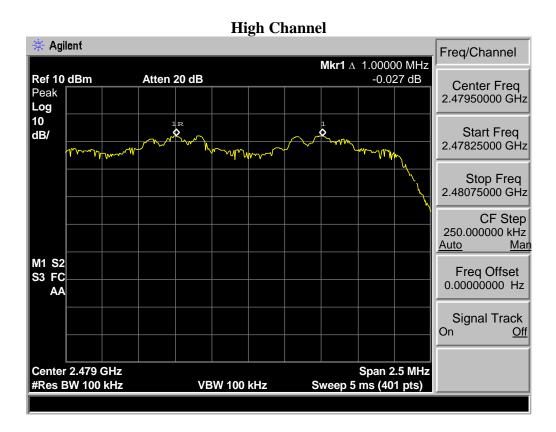
8-DPSK Low Channel



Mid Channel









6. NUMBER OF HOPPING CHANNEL

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Procedure

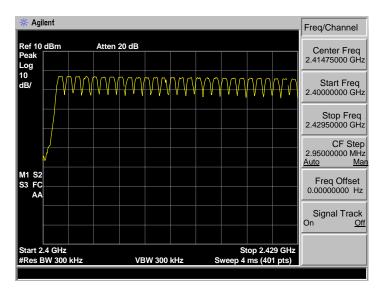
The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 300kHz VBW.

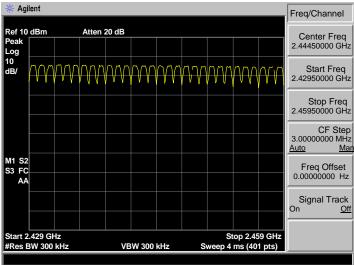
6.3. Test Result

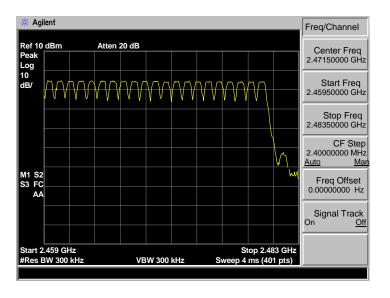
	EUT: Car RADIO Player				
M/N: CT412 BT					
Test date: 2016-04-09		Test site: RF site	Tested by: To	Tested by: Tony.Tang	
	Mode	Number of ho	pping channel	Limit	Conclusion
	GFSK	79		>15	PASS
	8-DPSK	79		>15	PASS

6.4. Test Data

GFSK

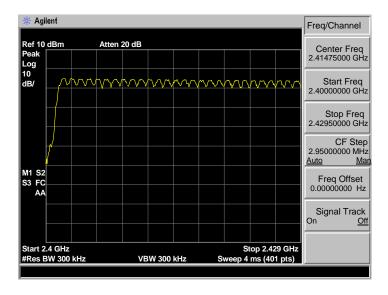


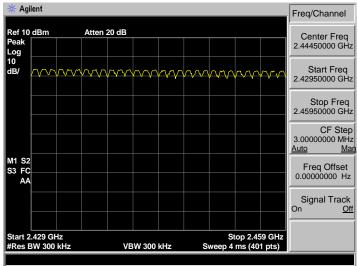


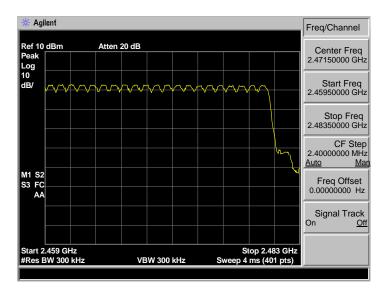




8-DPSK









7. DWELL TIME

7.1. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

7.2. Test Procedure

- 1. Connect the antenna port of the EUT to the spectrum analyzer by a low lost cable.
- 2. Set the EUT to proper test mode with relative test software and hardware.
- 3. Spectrum analyzer setting: Centered Frequency = measured channel, RBW = 1MHz, VBW= 1MHz, Frequency Span = 0 Hz.
- 4. Set sweep time properly to capture the entire dwell time per hopping channel.
- 5. Set detector type to Peak and trace mode to Max Hold and make the measurement.
- 6. Repeat step 3-5 until all channels measured were complete.

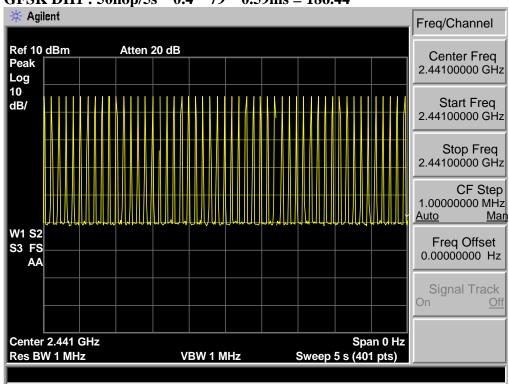
7.3. Test Result

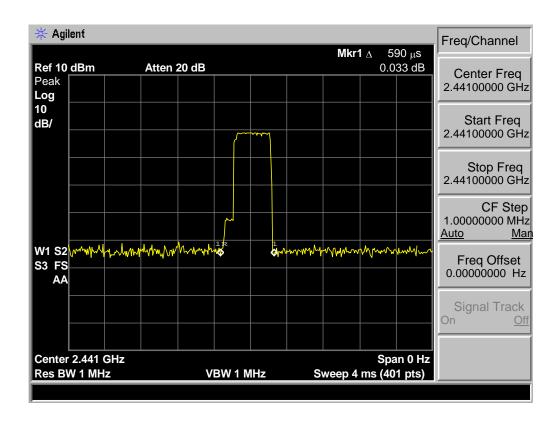
EUT: Car RADIO Playe M/N: CT412 BT	r		
Test date: 2016-04-09	Test site: RF site	Tested by: Tony Tang	
Mode	Dwell time (ms)	Limit	Conclusion
GFSK DH1	186.44	<400ms	PASS
GFSK DH3	268.60	<400ms	PASS
GFSK DH5	315.87	<400ms	PASS
8-DPSK 3DH1	145.36	<400ms	PASS
8-DPSK 3DH3	287.56	<400ms	PASS
8-DPSK 3DH5	318.02	<400ms	PASS



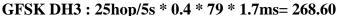
7.4. Test Data

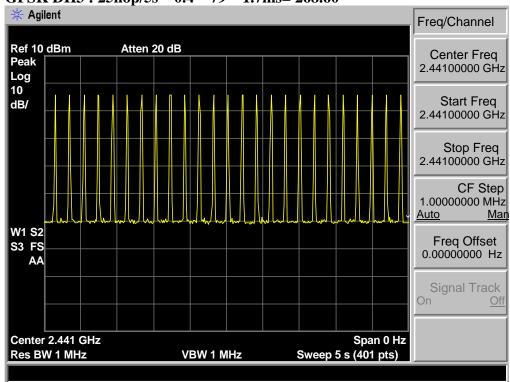
GFSK DH1: 50hop/5s * 0.4 * 79 * 0.59ms = 186.44

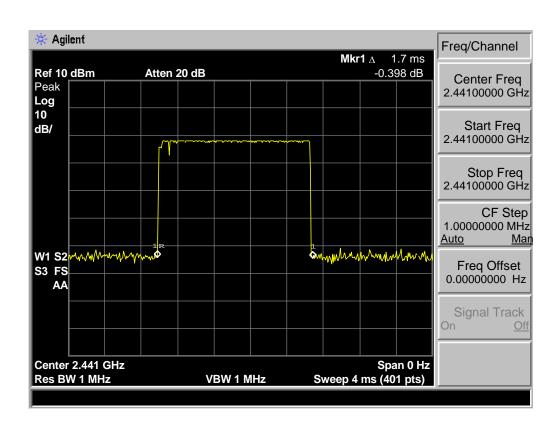




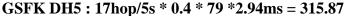


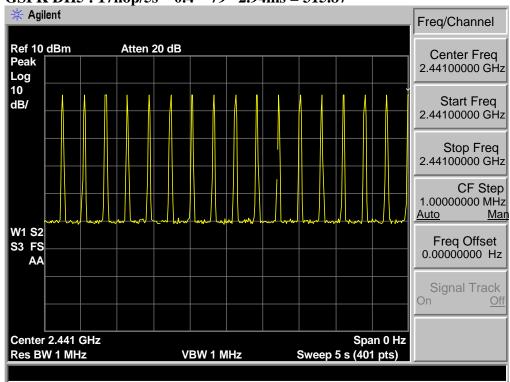


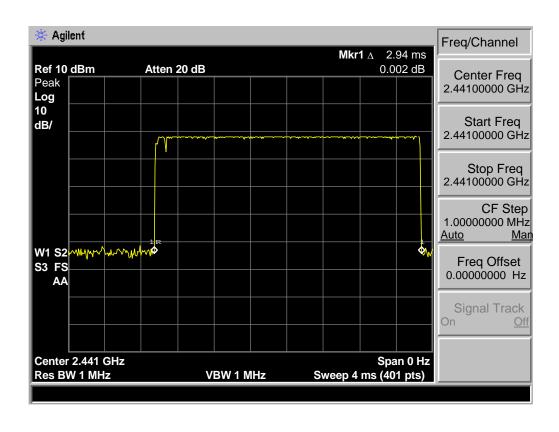






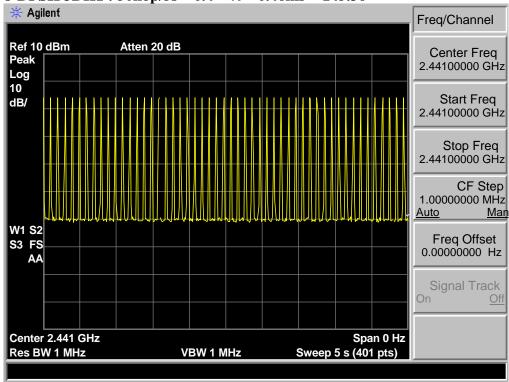


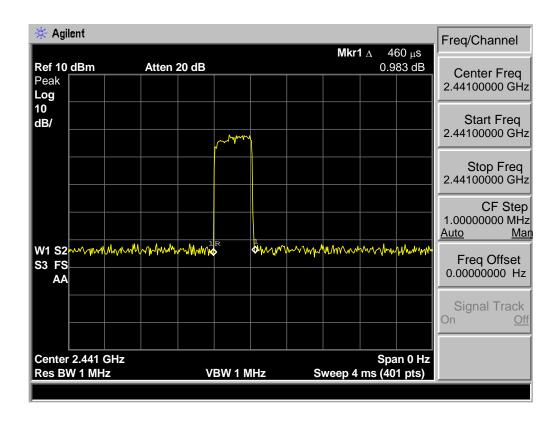




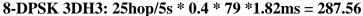


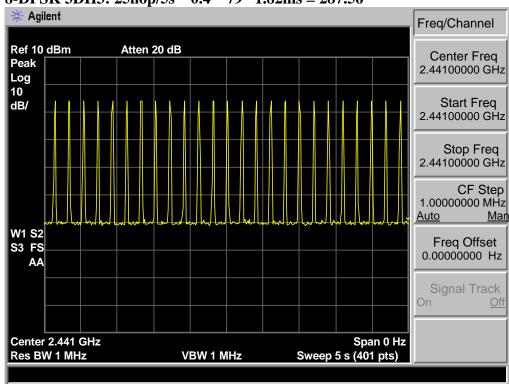


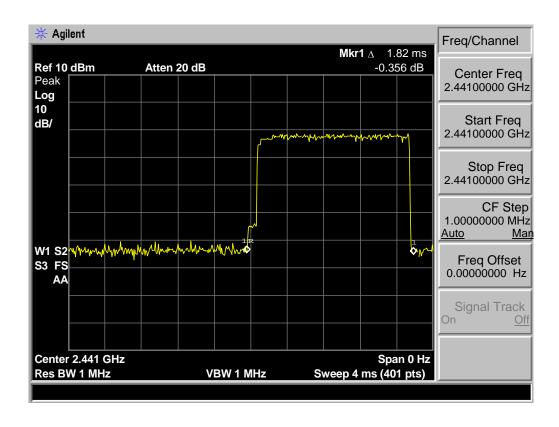






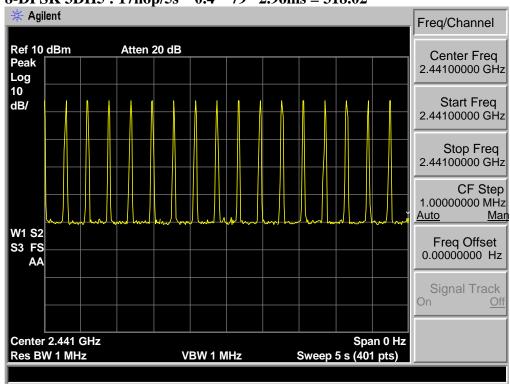


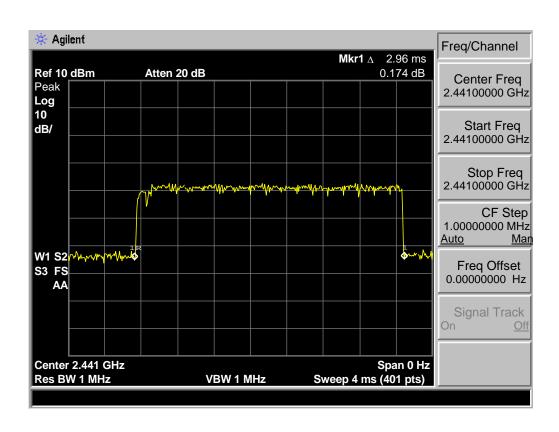














8. RADIATED EMISSIONS

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

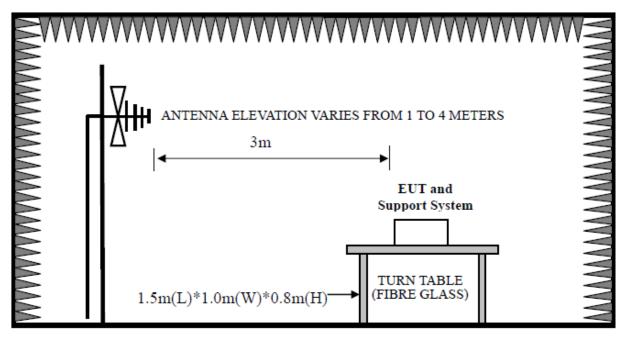
FREQ	UENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz		Meters	μV/m	dB(μV)/m
30 ~ 88		3	100	40.0
88 ~ 216		3	150	43.5
216 ~ 960		3	200	46.0
960 ~ 1000		3	500	54.0
Above	/e 1000	3	74.0 dB(μV)/m (Peak)	
Above			54.0 dB(μV)/m (Average)	

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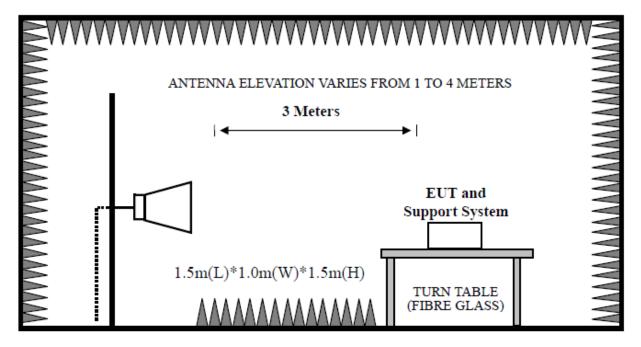


8.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



EST

8.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 30~1000MHz test, and wiich is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement, PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

8.4. Test Result

30MHz—2	5GHz Radiated emissisor	n Test result
EUT: Car RADIO Player		
M/N: CT412 BT		
Power: DC 12V		
Test date: 2016-04-06~04-19	Test site: 3m Chamber	Tested by: Tony Tang
Test mode: Tx Mode		
	Pass	

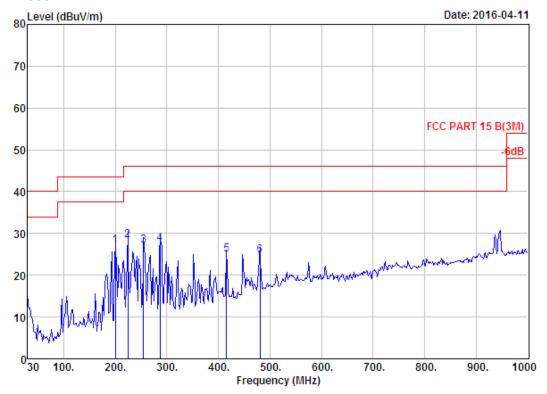
- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2402MHz \ 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

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8.5. Test Data

30 MHz - 1000 MHz



Site no. : 966 1# chamber Data no. : 273
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

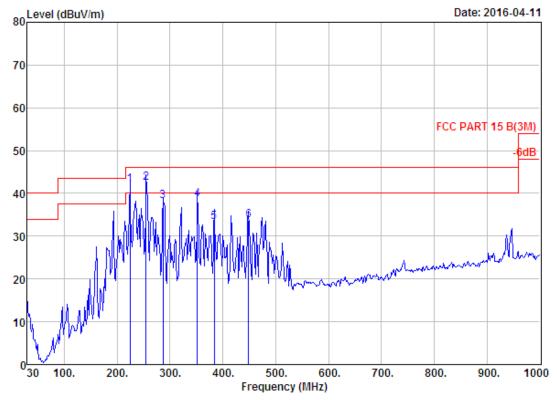
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	199.75	7.71	1.77	17.58	27.06	43.50	16.44	QP
2	224.00	9.42	2.01	17.02	28.45	46.00	17.55	QP
3	255.04	12.41	2.13	12.51	27.05	46.00	18.95	QP
4	287.05	12.59	2.32	12.64	27.55	46.00	18.45	QP
5	416.06	16.30	2.75	6.00	25.05	46.00	20.95	QP
6	481.05	17.49	3.09	4.13	24.71	46.00	21.29	OP



: 966 1# chamber : 3m 27137 Site no.

Data no. : 274 Ant. pol. : HORIZONTAL Dis. / Ant.

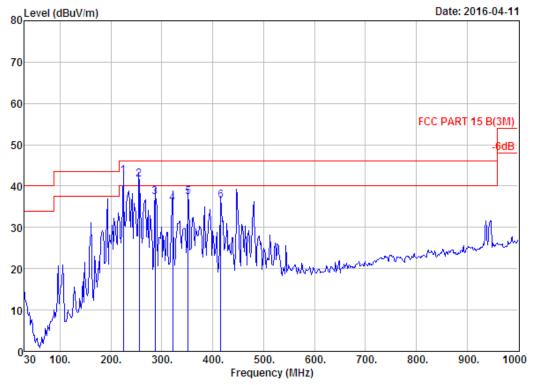
: FCC PART 15 B(3M) Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V : CT412 BT M/N : GFSK TX 2402MHz Test Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	223.98	9.42	2.01	30.50	41.93	46.00	4.07	QP
2	255.00	12.41	2.13	28.00	42.54	46.00	3.46	QP
3	287.05	12.59	2.32	23.23	38.14	46.00	7.86	QP
4	352.04	14.47	2.53	21.61	38.61	46.00	7.39	QP
5	384.05	15.24	2.64	15.44	33.32	46.00	12.68	QP
6	449.04	16.45	2.95	14.39	33.79	46.00	12.21	QP



Site no. : 966 1# chamber Dis. / Ant. : 3m 27137 Data no. : 275 Ant. pol. : HORIZONTAL

: FCC PART 15 B(3M) Limit

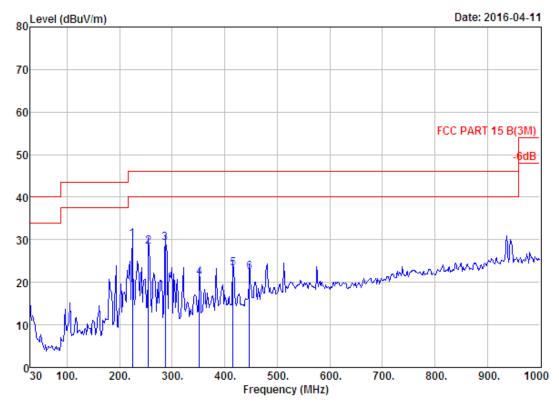
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

: Car RADIO Player EUT

Power : DC 12V M/N : CT412 BT : GFSK TX 2441MHz Test Mode

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	223.98	9.42	2.01	31.10	42.53	46.00	3.47	QP
2	255.99	12.52	2.15	27.00	41.67	46.00	4.33	QP
3	287.05	12.59	2.32	22.50	37.41	46.00	8.59	QP
4	321.00	13.60	2.41	19.85	35.86	46.00	10.14	QP
5	352.04	14.47	2.53	20.30	37.30	46.00	8.70	QP
6	416.06	16.30	2.75	17.45	36.50	46.00	9.50	QP



Site no. : 966 1# chamber Data no. : 276
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

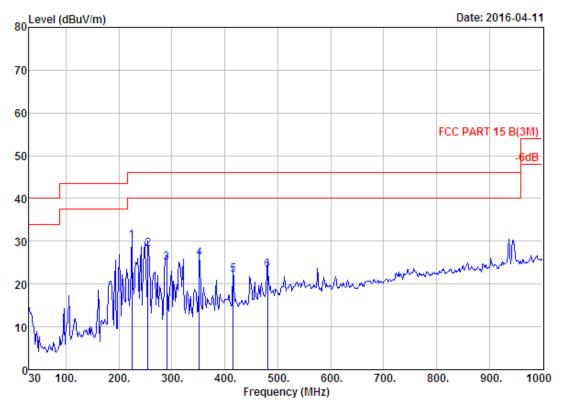
Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	224.00	9.42	2.01	18.55	29.98	46.00	16.02	QP
2	255.04	12.41	2.13	13.90	28.44	46.00	17.56	QP
3	287.05	12.59	2.32	14.28	29.19	46.00	16.81	QP
4	352.04	14.47	2.53	4.17	21.17	46.00	24.83	QP
5	416.06	16.30	2.75	4.16	23.21	46.00	22.79	QP
6	447.10	16.40	2.98	3.03	22.41	46.00	23.59	OP



Site no. : 966 1# chamber Data no. : 277
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

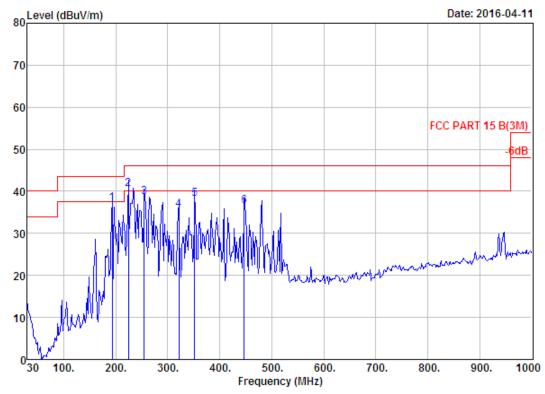
Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	_	Remark
1	224.00	9.42	2.01	18.69	30.12	46.00	15.88	QP
2	255.04	12.41	2.13	13.52	28.06	46.00	17.94	QP
3	289.96	12.73	2.32	9.86	24.91	46.00	21.09	QP
4	352.04	14.47	2.53	8.95	25.95	46.00	20.05	QP
5	416.06	16.30	2.75	3.04	22.09	46.00	23.91	QP
6	481.05	17.49	3.09	2.73	23.31	46.00	22.69	OP



Site no. : 966 1# chamber Data no. : 278
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

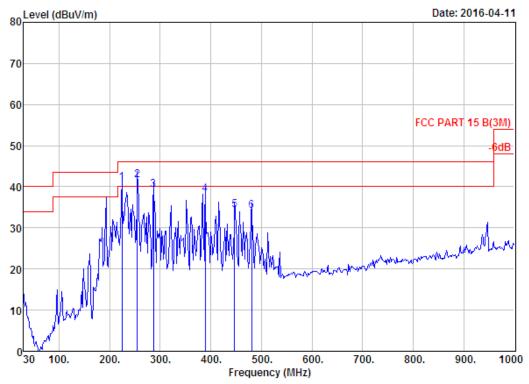
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	192.96	7.85	1.77	27.47	37.09	43.50	6.41	QP
2	224.00	9.42	2.01	29.13	40.56	46.00	5.44	QP
3	255.04	12.41	2.13	23.99	38.53	46.00	7.47	QP
4	321.00	13.60	2.41	19.65	35.66	46.00	10.34	QP
5	352.04	14.47	2.53	21.28	38.28	46.00	7.72	QP
6	447.10	16.40	2.98	17.15	36.53	46.00	9.47	QP



: 966 1# chamber : 3m 27137 Data no. : 279 Ant. pol. : HORIZONTAL Site no.

Dis. / Ant. : FCC PART 15 B(3M) Limit

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

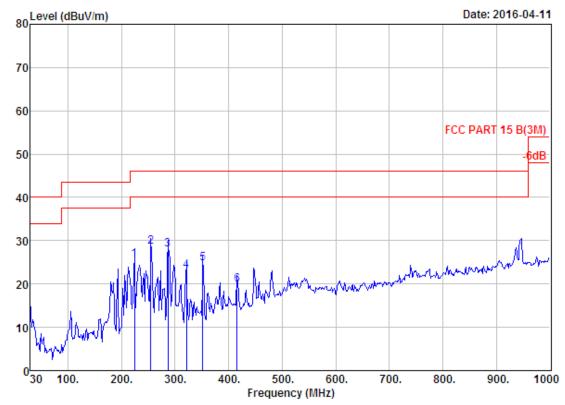
Engineer : Tony

: Car RADIO Player EUT

Power : DC 12V M/N : CT412 BT

: 8-DPSK TX 2402MHz Test Mode

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	224.00	9.42	2.01	29.46	40.89	46.00	5.11	QP
2	255.04	12.41	2.13	27.15	41.69	46.00	4.31	QP
3	287.05	12.59	2.32	24.28	39.19	46.00	6.81	QP
4	388.90	15.54	2.65	20.01	38.20	46.00	7.80	QP
5	447.10	16.40	2.98	14.91	34.29	46.00	11.71	QP
6	481.05	17.49	3.09	13.50	34.08	46.00	11.92	QP



Site no. : 966 1# chamber Data no. : 280
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

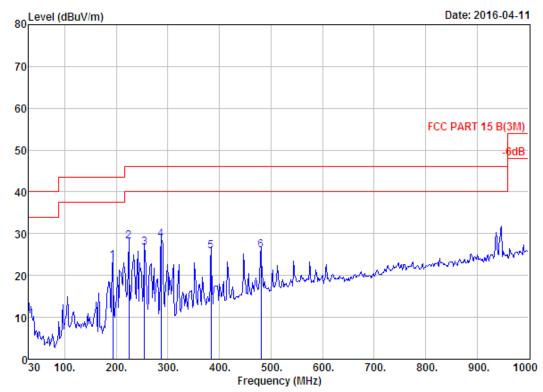
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	224.00	9.42	2.01	14.10	25.53	46.00	20.47	QP
2	255.04	12.41	2.13	14.00	28.54	46.00	17.46	QP
3	287.05	12.59	2.32	13.08	27.99	46.00	18.01	QP
4	321.00	13.60	2.41	7.04	23.05	46.00	22.95	QP
5	352.04	14.47	2.53	7.65	24.65	46.00	21.35	QP
6	416.06	16.30	2.75	0.87	19.92	46.00	26.08	QP



Site no. : 966 1# chamber Data no. : 281
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

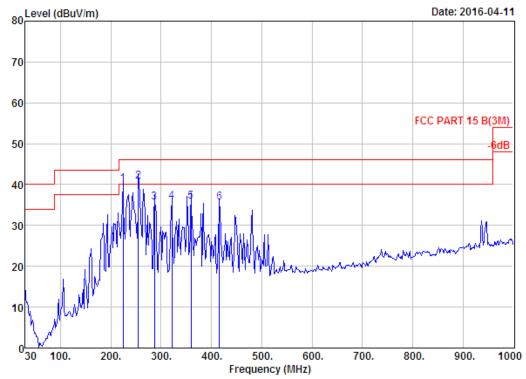
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	192.96	7.85	1.77	13.75	23.37	43.50	20.13	QP
2	224.00	9.42	2.01	16.69	28.12	46.00	17.88	QP
3	255.04	12.41	2.13	12.12	26.66	46.00	19.34	QP
4	287.05	12.59	2.32	13.72	28.63	46.00	17.37	QP
5	384.05	15.24	2.64	7.92	25.80	46.00	20.20	QP
6	481.05	17.49	3.09	5.37	25.95	46.00	20.05	QP



Site no. : 966 1# chamber Dis. / Ant. : 3m 27137

Data no. : 282 Ant. pol. : HORIZONTAL

: FCC PART 15 B(3M) Limit

: Temp:23.6';Humi:56%;Press:101.52kPa : Tony Env. / Ins.

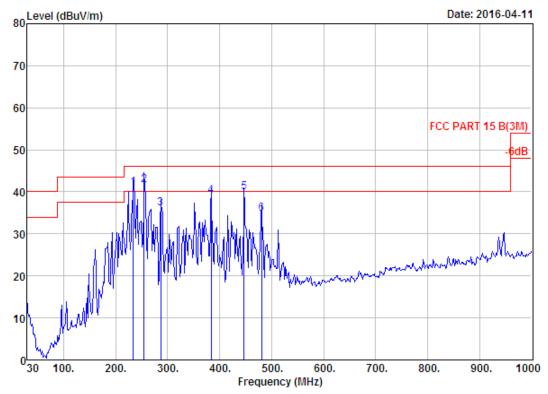
Engineer

: Car RADIO Player EUT

Power : DC 12V M/N

: CT412 BT : 8-DPSK TX 2441MHz Test Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	224.00	9.42	2.01	28.62	40.05	46.00	5.95	QP
2	255.04	12.41	2.13	26.16	40.70	46.00	5.30	QP
3	287.05	12.59	2.32	20.63	35.54	46.00	10.46	QP
4	321.00	13.60	2.41	19.79	35.80	46.00	10.20	QP
5	359.80	14.45	2.59	18.89	35.93	46.00	10.07	QP
6	416.06	16.30	2.75	16.53	35.58	46.00	10.42	QP



Site no. : 966 1# chamber Data no. : 283

Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

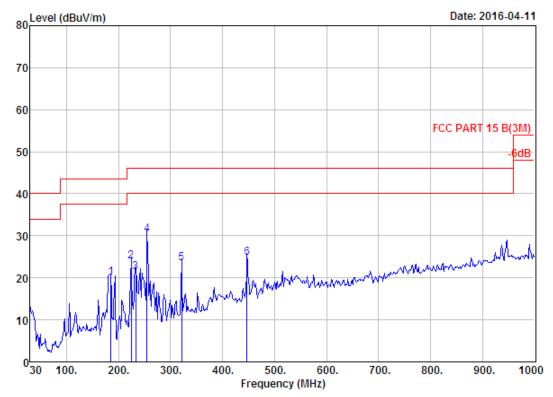
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	233.70	9.64	2.09	29.13	40.86	46.00	5.14	QP
2	255.04	12.41	2.13	27.03	41.57	46.00	4.43	QP
3	287.05	12.59	2.32	21.20	36.11	46.00	9.89	QP
4	384.05	15.24	2.64	21.18	39.06	46.00	6.94	QP
5	447.10	16.40	2.98	20.54	39.92	46.00	6.08	QP
6	481.05	17.49	3.09	14.27	34.85	46.00	11.15	OP



: 966 1# chamber Site no. Data no. : 284 : 3m 27137 Dis. / Ant. Ant. pol. : VERTICAL

Limit

: FCC PART 15 B(3M) : Temp:23.6';Humi:56%;Press:101.52kPa Env. / Ins.

: Tony Engineer

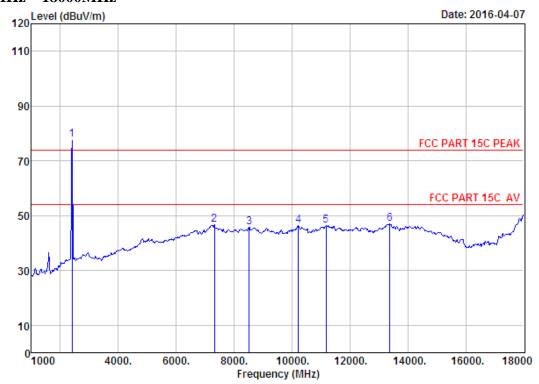
EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	185.20	8.48	1.75	9.73	19.96	43.50	23.54	QP
2	224.00	9.42	2.01	12.49	23.92	46.00	22.08	QP
3	232.73	9.59	2.08	9.64	21.31	46.00	24.69	QP
4	255.04	12.41	2.13	15.79	30.33	46.00	15.67	QP
5	321.00	13.60	2.41	7.46	23.47	46.00	22.53	QP
6	447.10	16.40	2.98	5.46	24.84	46.00	21.16	QP

1000 MHz - 18000 MHz



Site no. : 1# 966 chamber Data no. : 233
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

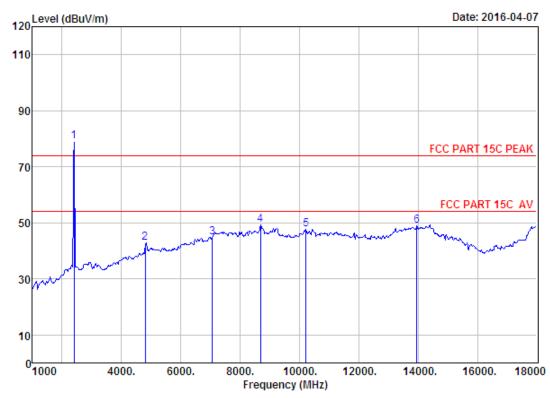
EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	78.11	77.70	74.00	-3.70	Peak
2	7324.00	36.55	11.57	34.14	32.78	46.76	74.00	27.24	Peak
3	8514.00	36.96	11.45	34.07	31.52	45.86	74.00	28.14	Peak
4	10214.00	38.48	11.47	34.50	30.83	46.28	74.00	27.72	Peak
5	11183.00	39.40	11.15	33.24	28.95	46.26	74.00	27.74	Peak
6	13376.00	39.78	11.48	32.91	28.60	46.95	74.00	27.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 234

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

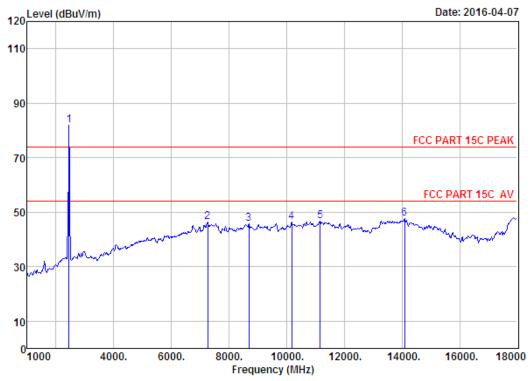
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2402MHz

	Margin (dB)	Limits (dBuV/m)	Level (dBuV/m)	Reading (dBuV)	Factor (dB)	Loss (dB)	Factor (dB/m)	Freq. (MHz)	
Peak	-4.88	74.00	78.88	79.29	34.64	6.62	27.61	2402.00	1
Peak	31.06	74.00	42.94	35.56	35.64	11.77	31.25	4804.00	2
Peak	29.18	74.00	44.82	31.45	33.94	11.50	35.81	7069.00	3
Peak	24.77	74.00	49.23	34.12	33.66	11.45	37.32	8684.00	4
Peak	26.35	74.00	47.65	32.20	34.50	11.47	38.48	10214.00	5
Peak	24.95	74.00	49.05	29.73	32.99	10.96	41.35	13954.00	6
	-4.88 31.06 29.18 24.77 26.35	74.00 74.00 74.00 74.00 74.00	78.88 42.94 44.82 49.23 47.65	79.29 35.56 31.45 34.12 32.20	34.64 35.64 33.94 33.66 34.50	6.62 11.77 11.50 11.45 11.47	27.61 31.25 35.81 37.32 38.48	2402.00 4804.00 7069.00 8684.00 10214.00	3 4 5

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 237
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

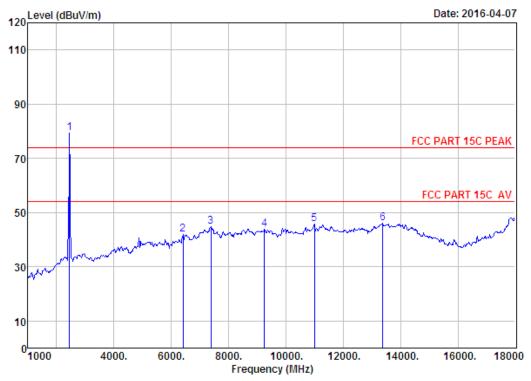
EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)	Loss	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	82.48	81.90	74.00	-7.90	Peak
2	7256.00	36.53	11.55	34.02	32.29	46.35	74.00	27.65	Peak
3	8684.00	37.32	11.45	33.66	30.73	45.84	74.00	28.16	Peak
4	10180.00	38.42	11.49	34.53	31.15	46.53	74.00	27.47	Peak
5	11166.00	39.41	11.17	33.31	29.54	46.81	74.00	27.19	Peak
6	14090.00	41.54	10.91	33.13	28.27	47.59	74.00	26.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 chamber Site no.

Data no. : 238 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT 1-18G

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

: Tony Engineer

EUT : Car RADIO Player

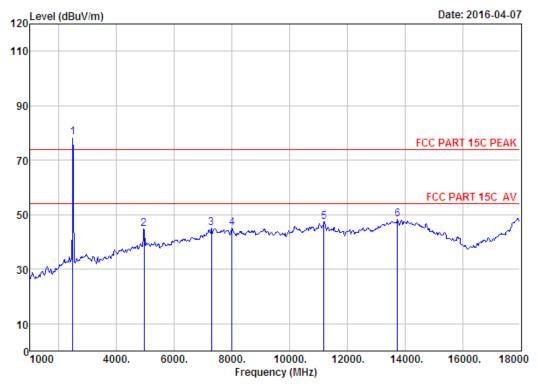
: DC 12V Power : CT412 BT M/N

: GFSK TX 2441MHz Test Mode

	Freq.	Ant. Factor (dB/m)		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	79.85	79.27	74.00	-5.27	Peak
2	6406.00	33.99	12.21	35.35	31.17	42.02	74.00	31.98	Peak
3	7375.00	36.57	11.59	34.21	30.95	44.90	74.00	29.10	Peak
4	9245.00	37.83	11.58	34.37	28.82	43.86	74.00	30.14	Peak
5	10996.00	39.52	11.29	34.11	29.06	45.76	74.00	28.24	Peak
6	13376.00	39.78	11.48	32.91	27.86	46.21	74.00	27.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 239
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

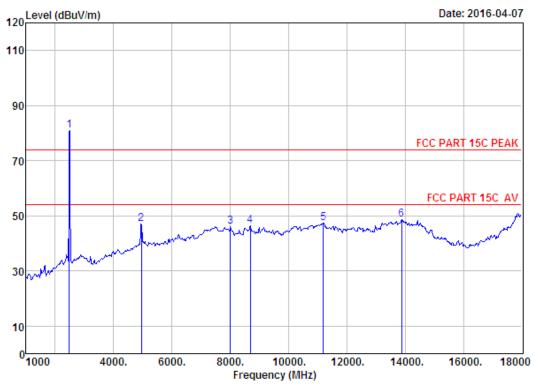
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2480MHz

	Freq.	-	Ant. Cable Factor Loss		Amp Factor	Reading	Emission Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2480.00	27.58	6.71	35.11	79.19	78.37	74.00	-4.37	Peak	
2	4960.00	31.49	12.44	36.01	36.87	44.79	74.00	29.21	Peak	
3	7290.00	36.54	11.56	34.09	30.96	44.97	74.00	29.03	Peak	
4	8004.00	37.01	11.40	34.96	31.74	45.19	74.00	28.81	Peak	
5	11200.00	39.39	11.14	33.24	30.02	47.31	74.00	26.69	Peak	
6	13750.00	40.78	11.20	33.02	29.25	48.21	74.00	25.79	Peak	

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 chamber Data no. : 240
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

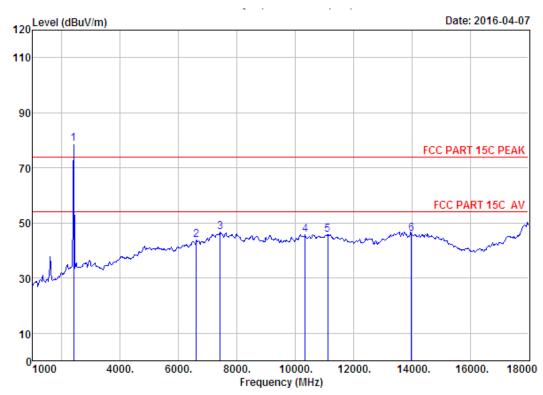
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	81.92	81.10	74.00	-7.10	Peak
2	4960.00	31.49	12.44	36.01	39.18	47.10	74.00	26.90	Peak
3	8004.00	37.01	11.40	34.96	32.74	46.19	74.00	27.81	Peak
4	8684.00	37.32	11.45	33.66	31.25	46.36	74.00	27.64	Peak
5	11200.00	39.39	11.14	33.24	30.15	47.44	74.00	26.56	Peak
6	13886.00	41.16	11.04	33.03	29.35	48.52	74.00	25.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 243
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

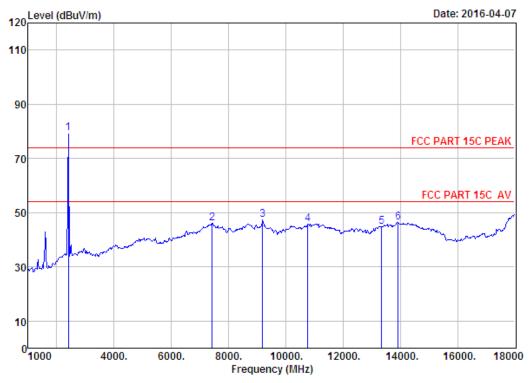
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant.	Cable	Amp		Emission			Remark
		•		Factor (dB)	Factor Reading (dB) (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2402.00	27.61	6.62	34.64	79.04	78.63	74.00	-4.63	Peak
2	6610.00	34.47	12.07	34.74	31.92	43.72	74.00	30.28	Peak
3	7426.00	36.56	11.60	34.22	32.67	46.61	74.00	27.39	Peak
4	10350.00	38.71	11.39	34.53	30.33	45.90	74.00	28.10	Peak
5	11115.00	39.44	11.20	33.55	28.82	45.91	74.00	28.09	Peak
6	13988.00	41.45	10.92	33.00	26.70	46.07	74.00	27.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 244
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

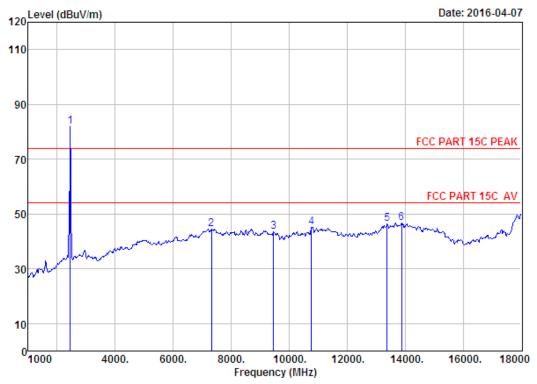
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	79.92	79.51	74.00	-5.51	Peak
2	7426.00	36.56	11.60	34.22	32.25	46.19	74.00	27.81	Peak
3	9194.00	37.75	11.55	34.18	32.08	47.20	74.00	26.80	Peak
4	10775.00	39.28	11.30	34.02	29.33	45.89	74.00	28.11	Peak
5	13342.00	39.70	11.48	32.93	26.59	44.84	74.00	29.16	Peak
6	13920.00	41.26	11.00	33.00	27.21	46.47	74.00	27.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 247 Ant. pol. : HORIZONTAL : 1# 966 chamber Site no. : 3m ANT 1-18G : FCC PART 15C PEAK Dis. / Ant.

Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

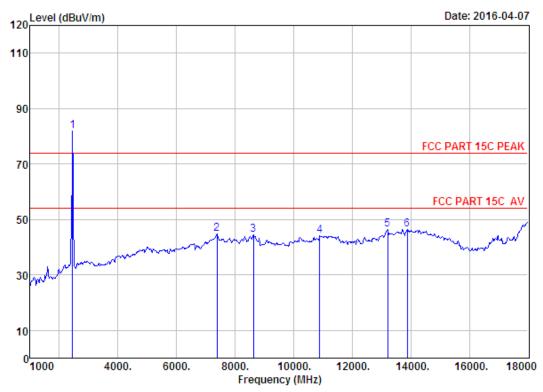
: DC 12V Power M/N : CT412 BT

: 8-DPSK TX 2441MHz Test Mode

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	82.55	81.97	74.00	-7.97	Peak
2	7324.00	36.55	11.57	34.14	30.52	44.50	74.00	29.50	Peak
3	9466.00	38.02	11.69	34.87	28.68	43.52	74.00	30.48	Peak
4	10775.00	39.28	11.30	34.02	28.61	45.17	74.00	28.83	Peak
5	13376.00	39.78	11.48	32.91	27.92	46.27	74.00	27.73	Peak
6	13886.00	41.16	11.04	33.03	27.40	46.57	74.00	27.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 248

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

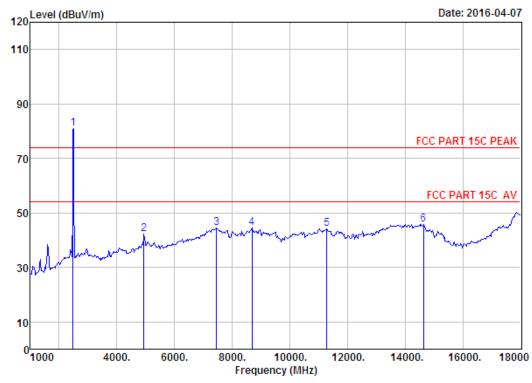
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2441MHz

	Freq.	Ant. Factor (dB/m)		Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	27.60	6.67	34.85	82.61	82.03	74.00	-8.03	Peak
2	7375.00	36.57	11.59	34.21	30.76	44.71	74.00	29.29	Peak
3	8633.00	37.24	11.45	33.73	29.36	44.32	74.00	29.68	Peak
4	10894.00	39.41	11.29	34.05	27.47	44.12	74.00	29.88	Peak
5	13206.00	39.38	11.46	32.79	28.39	46.44	74.00	27.56	Peak
6	13886.00	41.16	11.04	33.03	27.10	46.27	74.00	27.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 249 Ant. pol. : VERTICAL Site no. : 1# 966 chamber Dis. / Ant. : 3m ANT 1-18G

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

: Tony Engineer

EUT : Car RADIO Player

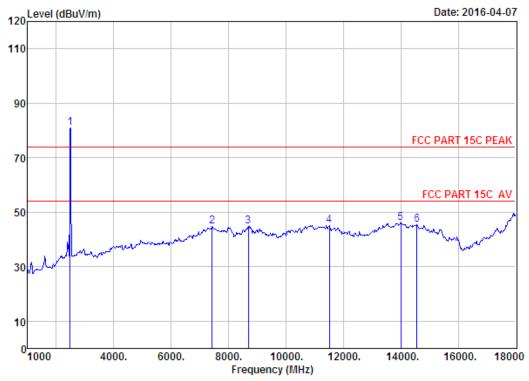
: DC 12V Power M/N

: CT412 BT : 8-DPSK TX 2480MHz Test Mode

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	81.78	80.96	74.00	-6.96	Peak
2	4944.00	31.47	12.37	35.96	34.29	42.17	74.00	31.83	Peak
3	7460.00	36.52	11.61	34.21	30.45	44.37	74.00	29.63	Peak
4	8684.00	37.32	11.45	33.66	29.42	44.53	74.00	29.47	Peak
5	11285.00	39.33	11.08	33.32	27.06	44.15	74.00	29.85	Peak
6	14634.00	41.48	10.91	33.86	27.35	45.88	74.00	28.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 250

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

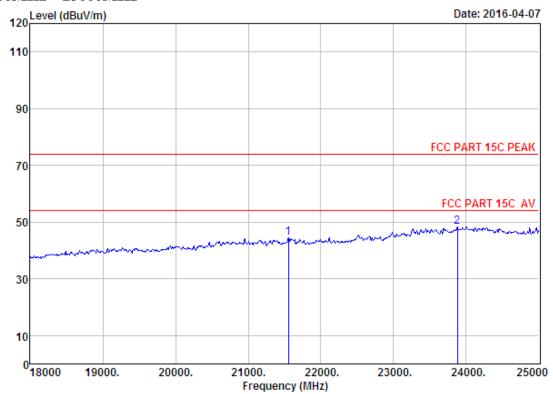
Test Mode : 8-DPSK TX 2480MHz

	•	Ant.	Cable	Amp		Emission			Remark
		Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	2480.00	27.58	6.71	35.11	81.82	81.00	74.00	-7.00	Peak
2	7426.00	36.56	11.60	34.22	30.72	44.66	74.00	29.34	Peak
3	8684.00	37.32	11.45	33.66	29.64	44.75	74.00	29.25	Peak
4	11506.00	39.20	10.92	33.46	28.44	45.10	74.00	28.90	Peak
5	14005.00	41.46	10.90	33.01	26.73	46.08	74.00	27.92	Peak
6	14566.00	41.71	10.92	33.66	26.35	45.32	74.00	28.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



18000MHz - 25000MHz



Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

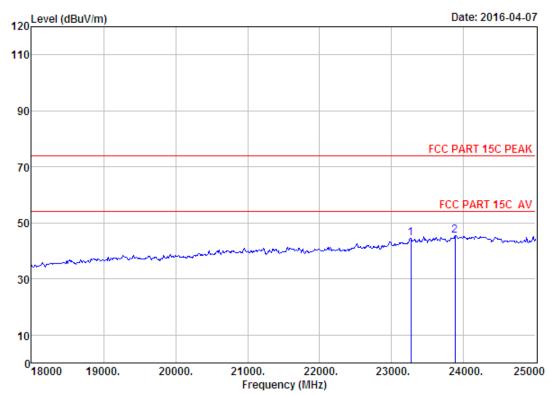
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2402MHz

		-	Factor		Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
1	L	21556.00	45.96	20.37	35.31	13.37	44.39	74.00	29.61	Peak
2	2	23880.00	45.63	21.94	32.93	13.82	48.46	74.00	25.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 262
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

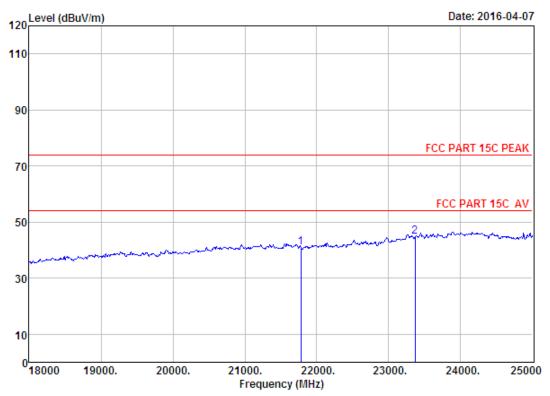
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2402MHz

	 	 (===.,	(dBuV/m)	(dBuV/m)		
1 23264. 2 23880.	 	 	44.57 45.46	74.00 74.00	29.43 28.54	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 263
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony
EUT : Car RADIO Player

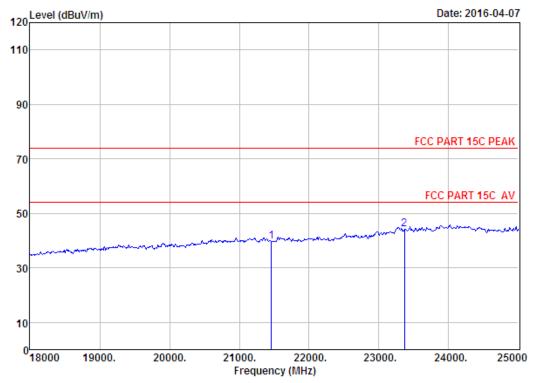
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2441MHz

-	Factor	Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
21780.00 23369.00			9.77 11.18	40.97 44.87	74.00 74.00	33.03 29.13	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 264

Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

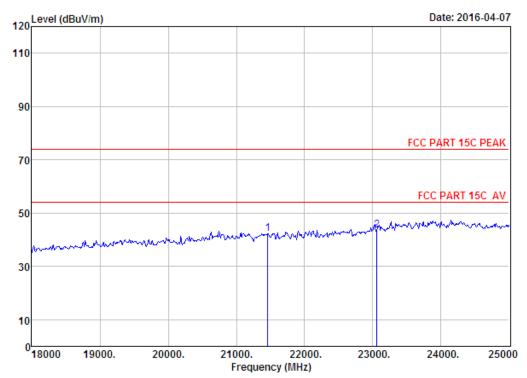
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2441MHz

Freq.		Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
21458.00 23369.00	 			39.67 44.01	74.00 74.00	34.33 29.99	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 chamber Data no. : 265
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

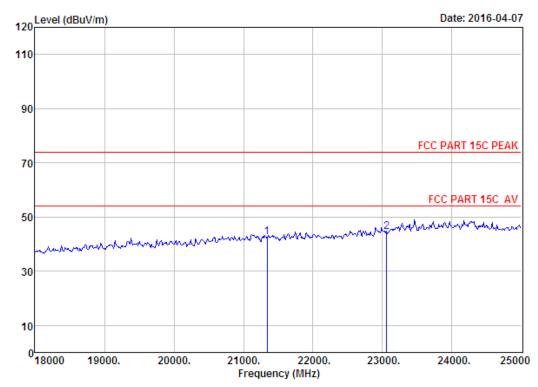
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2480MHz

Freq. (MHz)	Factor	Loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
21458.00 23061.00					42.26 43.55	74.00 74.00	31.74 30.45	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 chamber Data no. : 266
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

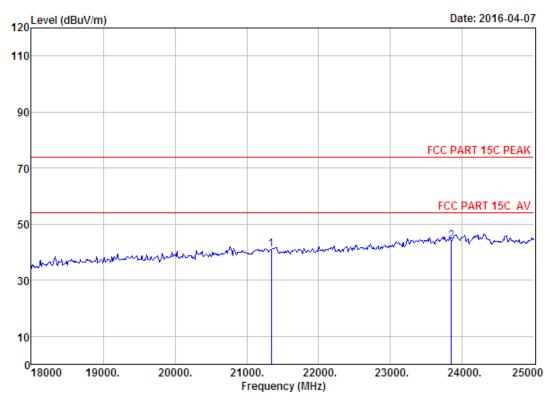
Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT Test Mode : GFSK TX 2480MHz

-		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
21339.00 23061.00	 		11.69 11.39	42.57 44.40	74.00 74.00	31.43 29.60	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 chamber Data no. : 267
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

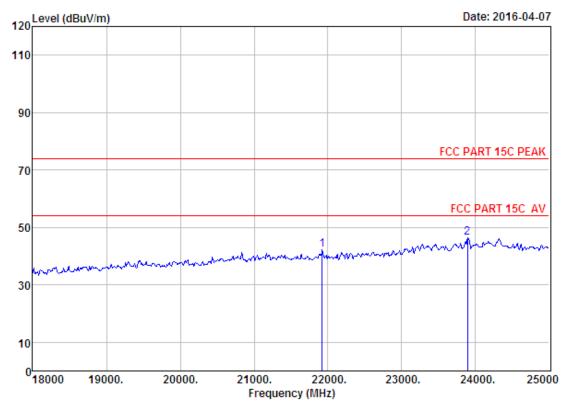
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz

Freq. (MHz)	Factor	Factor	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
21339.00 23845.00		 		40.93 43.78	74.00 74.00	33.07 30.22	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 chamber Site no. Data no. : 268 Ant. pol. : HORIZONTAL Dis. / Ant.

: 3m ANT ABVOE 18G : FCC PART 15C PEAK Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

: Tony Engineer

EUT : Car RADIO Player

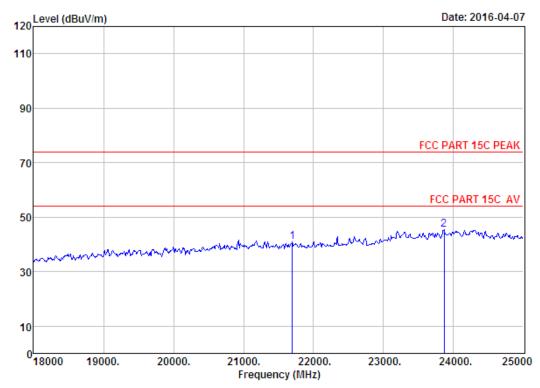
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz

Freq.	Factor	Loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
21920.00 23894.00					42.09 46.40	74.00 74.00	31.91 27.60	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 chamber Data no. : 269 Site no.

Dis. / Ant. : 3m ANT ABVOE 18G Limit : FCC PART 15C PEAK Ant. pol. : HORIZONTAL

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

: Tony Engineer

: Car RADIO Player EUT

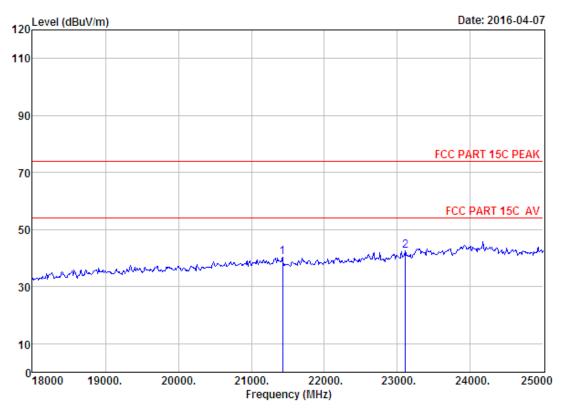
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2441MHz

-	Factor	Loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
21696.00 23866.00					41.03 45.37	74.00 74.00	32.97 28.63	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 270
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

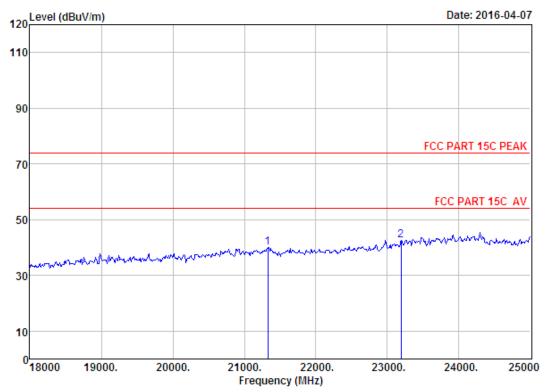
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2441MHz

-	Factor	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
21430.00 23110.00				40.31 42.62	74.00 74.00	33.69 31.38	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 271
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

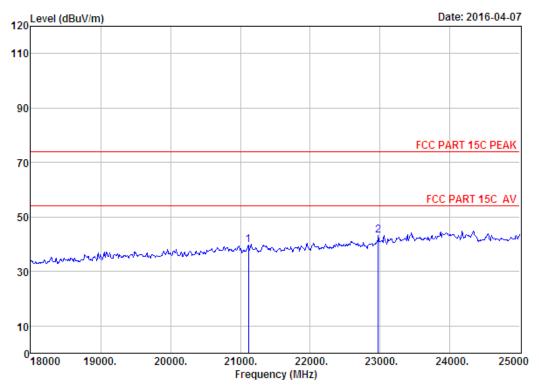
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz

	-	Factor	Loss	Factor	_	Emission Level (dBuV/m)		Margin (dB)	Remark
1	21325.00	46.10	20.27	35.51	9.28	40.14	74.00	33.86	Peak
2	23194.00	45.64	21.32	33.64	9.35	42.67	74.00	31.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 272

Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz

 Freq. (MHz)	Loss	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark
21115.00 22970.00	 	 9.03 10.35	39.74 43.21	74.00 74.00	34.26 30.79	Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

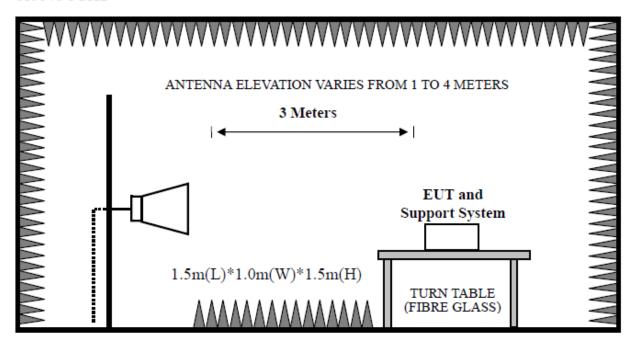
9. BAND EDGE COMPLIANCE

9.1. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.2. Block Diagram of Test setup

Above 1GHz



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9.3. Test Procedure

EUT was placed on a turn table, which is 1.5 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

- (a) Peak: RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
- (b) AV: RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

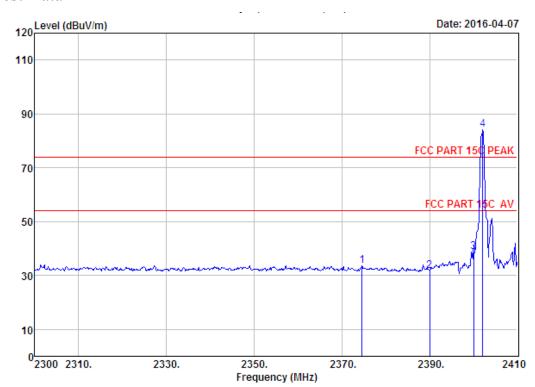
9.4. Test Result

EUT: Car RADIO Player							
M/N: CT412 BT							
Power: DC 12V							
Test date: 2016-04-07 Test site: 3m Chamber Tested by: Tony Tang							
Test mode: Tx Mode (Hopping On & No Hopping)							
Pass							

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2402MHz \ 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

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9.5. Test Data



: 1# 966 chamber Data no. : 235 Site no. : 3m ANT 1-18G : FCC PART 15C PEAK Dis. / Ant. Ant. pol. : HORIZONTAL

Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

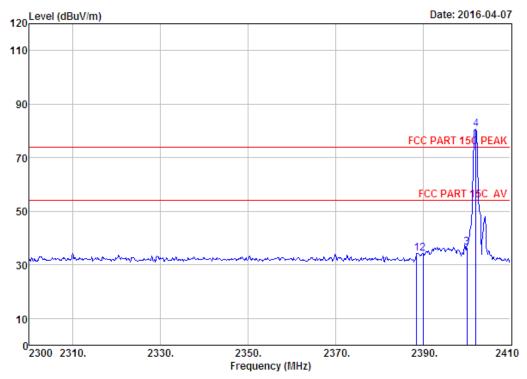
: DC 12V Power : CT412 BT M/N

Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2374.58	27.64	6.60	34.59	34.01	33.66	74.00	40.34	Peak
2	2390.00	27.64	6.62	34.62	32.11	31.75	74.00	42.25	Peak
3	2400.00	27.61	6.62	34.64	38.99	38.58	74.00	35.42	Peak
4	2402.08	27.61	6.62	34.64	84.65	84.24	74.00	-10.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 236
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

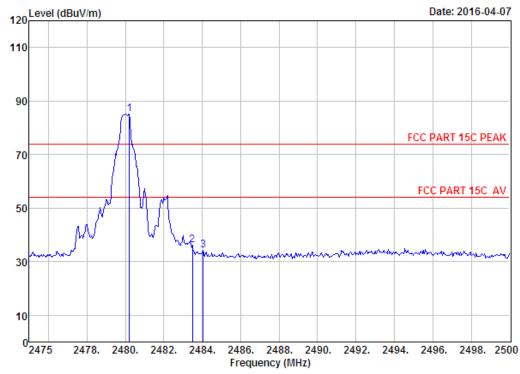
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2402MHz (No Hopping)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.55	27.64	6.62	34.62	34.50	34.14	74.00	39.86	Peak
2	2390.00	27.64	6.62	34.62	34.68	34.32	74.00	39.68	Peak
3	2400.00	27.61	6.62	34.64	36.85	36.44	74.00	37.56	Peak
4	2402.08	27.61	6.62	34.64	80.96	80.55	74.00	-6.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 242
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

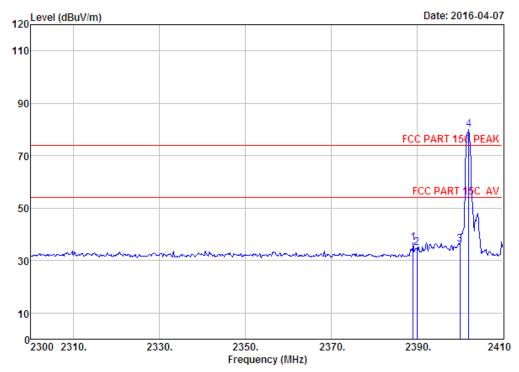
EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2480MHz (No Hopping)

	Freq.		Loss	Amp Factor (dB)	_	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.20	27.58	6.71	35.11	86.07	85.25	74.00	-11.25	Peak
2	2483.50	27.58	6.71	35.11	37.02	36.20	74.00	37.80	Peak
3	2484.05	27.58	6.71	35.11	35.20	34.38	74.00	39.62	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



: 1# 966 chamber Data no. : 245 Site no. Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit

: FCC PART 15C PEAK : Temp:23.6';Humi:56%;Press:101.52kPa Env. / Ins.

Engineer : Tony : Car RADIO Player EUT

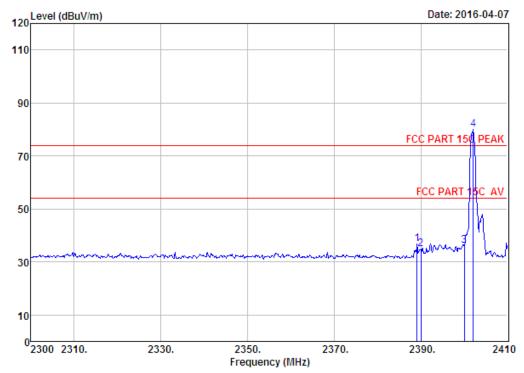
Power : DC 12V

M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz (No Hopping)

	Freq. (MHz)		Loss	Amp Factor (dB)	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.10	27.64	6.62	34.62	37.11	36.75	74.00	37.25	Peak
2	2390.00	27.64	6.62	34.62	35.27	34.91	74.00	39.09	Peak
3	2400.00	27.61	6.62	34.64	36.47	36.06	74.00	37.94	Peak
4	2402.08	27.61	6.62	34.64	80.37	79.96	74.00	-5.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading. 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 245
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony
EUT : Car RADIO Player
Power : DC 12V

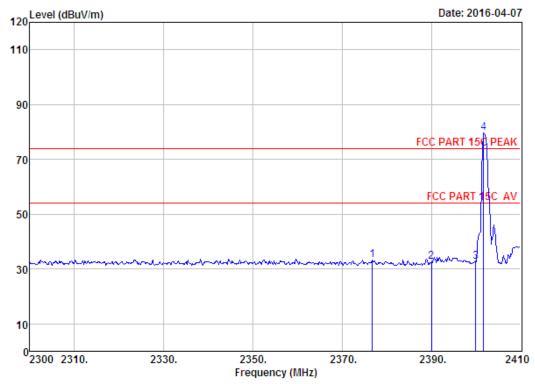
M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz (No Hopping)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.10	27.64	6.62	34.62	37.11	36.75	74.00	37.25	Peak
2	2390.00	27.64	6.62	34.62	35.27	34.91	74.00	39.09	Peak
3	2400.00	27.61	6.62	34.64	36.47	36.06	74.00	37.94	Peak
4	2402.08	27.61	6.62	34.64	80.37	79.96	74.00	-5.96	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 246
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

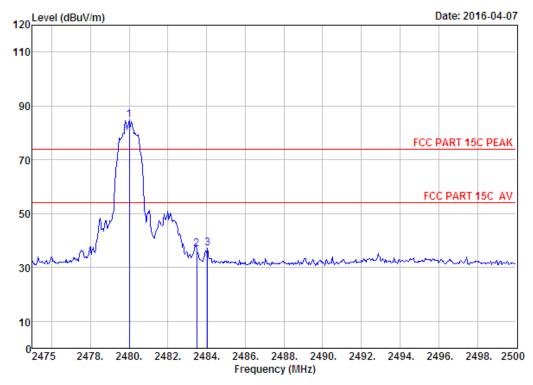
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz (No Hopping)

	Freq. (MHz)			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2376.78	27.64	6.60	34.59	33.60	33.25	74.00	40.75	Peak
2	2389.98	27.64	6.62	34.62	32.87	32.51	74.00	41.49	Peak
3	2399.99	27.61	6.62	34.64	33.11	32.70	74.00	41.30	Peak
4	2401.75	27.61	6.62	34.64	80.01	79.60	74.00	-5.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 251
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

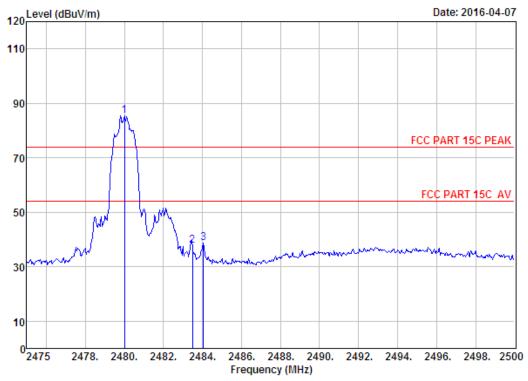
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz (No Hopping)

	Freq.		Loss		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2	2480.00 2483.50 2484.05	27.58	6.71	35.11	37.54	84.83 36.72 37.12	74.00 74.00 74.00	-10.83 37.28 36.88	Peak Peak Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 252
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

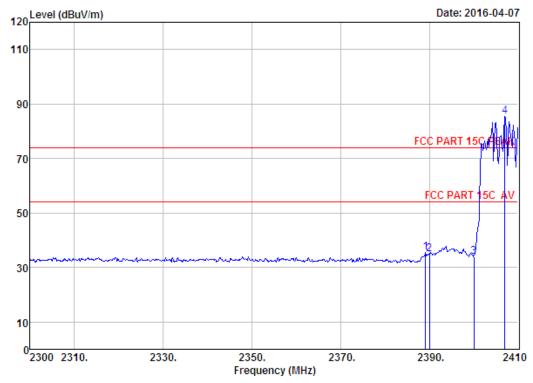
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz (No Hopping)

	Freq.	Factor		Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
2	2480.00 2483.50	27.58	6.71	35.11	38.55	37.73	74.00	-11.51 36.27	Peak Peak
3	2484.05	27.58	6.71	35.11	39.39	38.57	74.00	35.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 253
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V

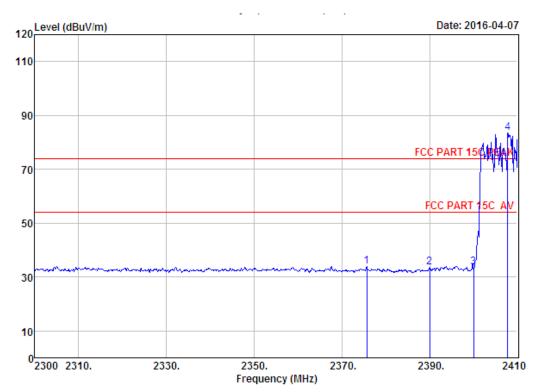
M/N : CT412 BT

Test Mode : GFSK TX 2402MHz (Hopping On)

	Freq. (MHz)		Loss	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.10	27.64	6.62	34.62	35.73	35.37	74.00	38.63	Peak
2	2390.00	27.64	6.62	34.62	35.38	35.02	74.00	38.98	Peak
3	2400.00	27.61	6.62	34.64	34.37	33.96	74.00	40.04	Peak
4	2407.03	27.61	6.64	34.64	85.92	85.53	74.00	-11.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 chamber Data no. : 254 Site no.

: 3m ANT 1-18G : FCC PART 15C PEAK Ant. pol. : HORIZONTAL Dis. / Ant.

Limit

: Temp:23.6'; Humi:56%; Press:101.52kPa Env. / Ins.

Engineer : Tony

: Car RADIO Player EUT

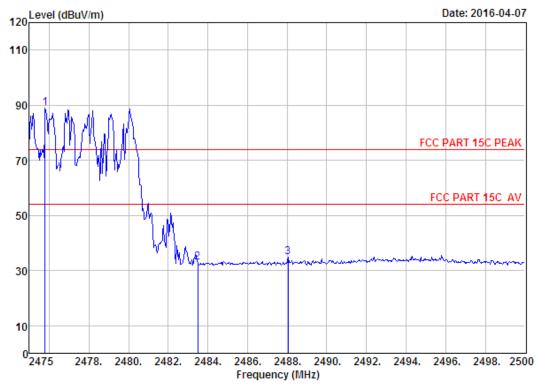
Power : DC 12V M/N : CT412 BT

: GFSK TX 2402MHz (Hopping On) Test Mode

	Freq.		Loss	Amp Factor (dB)		Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.68	27.64	6.60	34.59	34.37	34.02	74.00	39.98	Peak
2	2390.00	27.64	6.62	34.62	33.83	33.47	74.00	40.53	Peak
3	2400.00	27.61	6.62	34.64	34.16	33.75	74.00	40.25	Peak
4	2407.80	27.61	6.64	34.64	83.93	83.54	74.00	-9.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 255 Ant. pol. : HORIZONTAL Site no. : 1# 966 chamber Dis. / Ant.

: 3m ANT 1-18G : FCC PART 15C PEAK Limit

: Temp:23.6'; Humi:56%; Press:101.52kPa Env. / Ins.

Engineer : Tony

EUT : Car RADIO Player

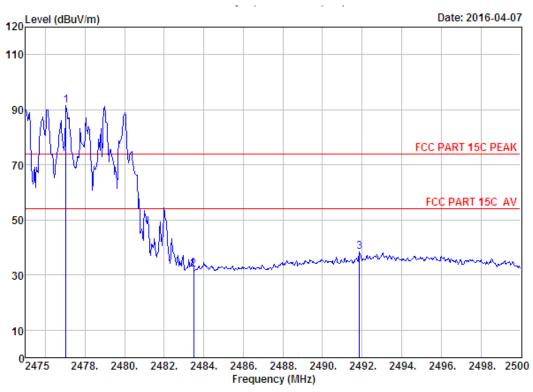
: DC 12V Power : CT412 BT M/N

Test Mode : GFSK TX 2480MHz (Hopping On)

	Freq.	Factor	Loss	Factor	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
2	2475.80 2483.50	27.58	6.71	35.11	33.63	89.02 32.81		41.19	Peak Peak
3	2488.05	27.58	6.73	35.11	35.64	34.84	74.00	39.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 256
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

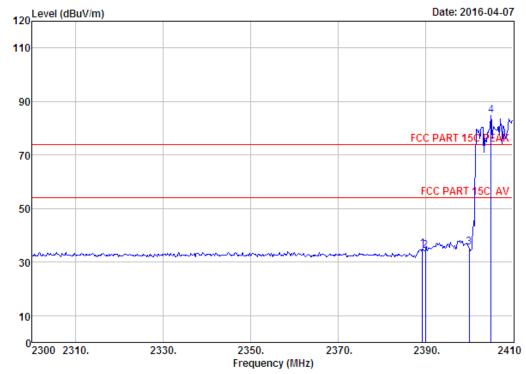
Power : DC 12V M/N : CT412 BT

Test Mode : GFSK TX 2480MHz (Hopping On)

	-	Loss	Reading	Emission Level (dBuV/m)		Margin (dB)	Remark
1	2477.05 2483.50		92.24	91.42 32.12	74.00 74.00	-17.42 41.88	Peak Peak
3	2491.88	 	 	38.51	74.00	35.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 257
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

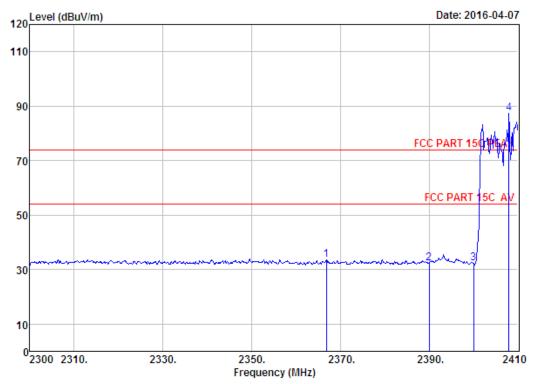
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz (Hopping On)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.32	27.64	6.62	34.62	35.39	35.03	74.00	38.97	Peak
2	2390.00	27.64	6.62	34.62	34.73	34.37	74.00	39.63	Peak
3	2400.00	27.61	6.62	34.64	35.89	35.48	74.00	38.52	Peak
4	2405.05	27.61	6.64	34.64	85.16	84.77	74.00	-10.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 258

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

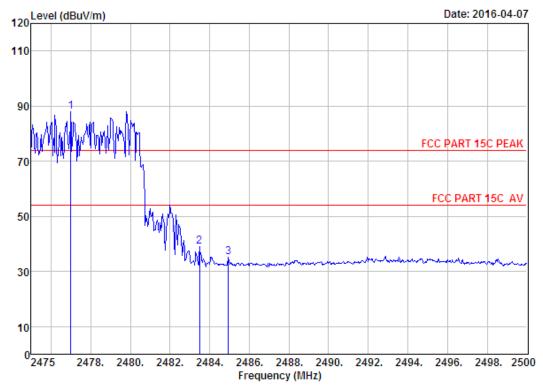
EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2402MHz (Hopping On)

	Freq.			-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2366.88	27.67	6.58	34.59	33.99	33.65	74.00	40.35	Peak
2	2390.00	27.64	6.62	34.62	32.58	32.22	74.00	41.78	Peak
3	2400.00	27.61	6.62	34.64	32.81	32.40	74.00	41.60	Peak
4	2408.02	27.61	6.64	34.64	87.61	87.22	74.00	-13.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 chamber Data no. : 259
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

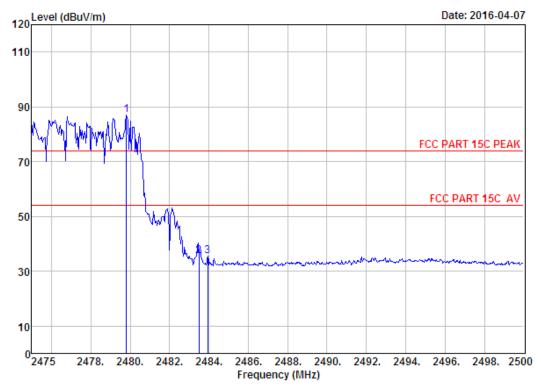
Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq.			Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2477.00	27.58	6.71	35.11	88.92	88.10	74.00	-14.10	Peak
2	2483.50	27.58	6.71	35.11	39.73	38.91	74.00	35.09	Peak
3	2484.95	27.58	6.71	35.11	35.87	35.05	74.00	38.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 chamber Data no. : 260
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Car RADIO Player

Power : DC 12V M/N : CT412 BT

Test Mode : 8-DPSK TX 2480MHz (Hopping On)

	Freq.			Factor	Reading	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.80	27.58	6.71	35.11	87.79	86.97	74.00	-12.97	Peak
2	2483.50	27.58	6.71	35.11	36.38	35.56	74.00	38.44	Peak
3	2483.95	27.58	6.71	35.11	36.29	35.47	74.00	38.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



10. ANTENNA REQUIREMENTS

10.1.Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2.Result

The antennas used for this product are Integrated PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

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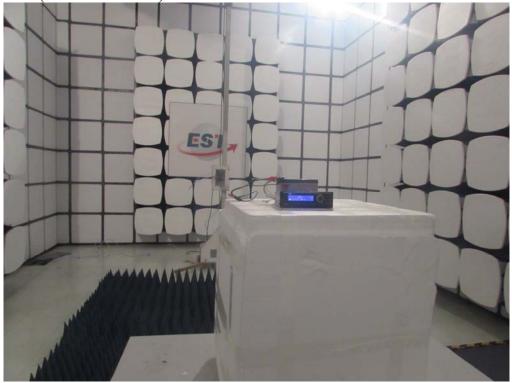


11. TEST SETUP PHOTO

Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



12. PHOTOS OF EUT

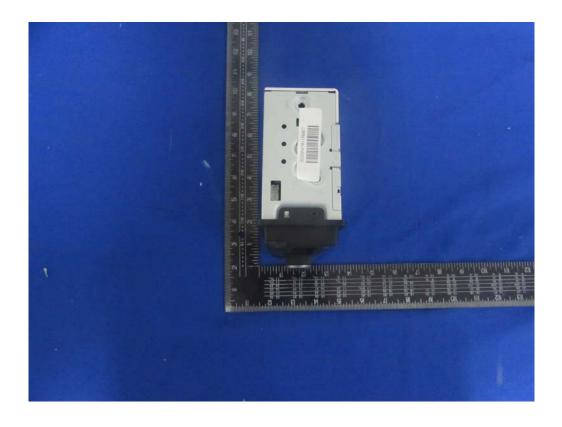
External Photos M/N: CT412 BT





External Photos M/N: CT412 BT















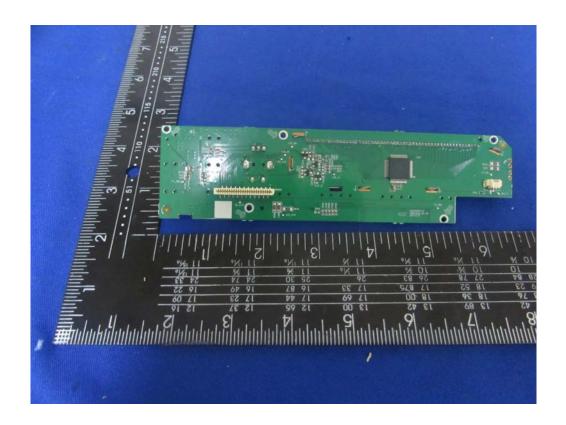


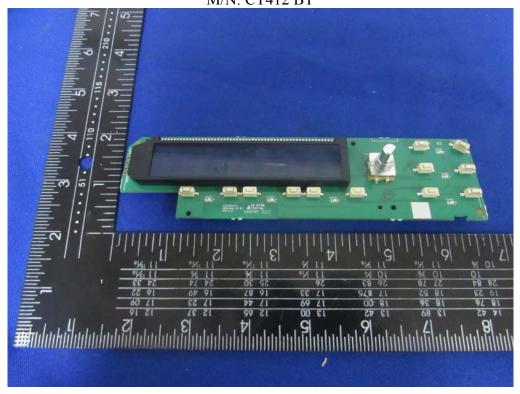


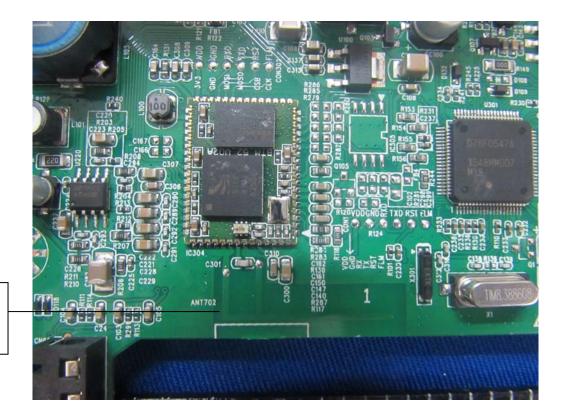












Bluetooth Antenna