

Prüfbericht-Nr.: <i>Test Report No.:</i>	17038645 001	Auftrags-Nr.: <i>Order No.:</i>	164011268	Seite 1 von 52 <i>Page 1 of 52</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	25.02.2014		
Auftraggeber: <i>Client:</i>	JDSU Uniphase Corporation, 1100 Perimeter Park Drive, Suite 101, Morrisville, NC 27560				
Prüfgegenstand: <i>Test item:</i>	SmartClass TPS				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	SCTPS-AB-CU, CSC-TPSVW-CU, SCTPS-AB, CSC-TPSVW				
Auftrags-Inhalt: <i>Order content:</i>	FCC approval				
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 CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109				
Wareneingangsdatum: <i>Date of receipt:</i>	28.02.2014				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000039287-001, A000039287-002				
Prüfzeitraum: <i>Testing period:</i>	14.03.2014 - 22.05.2014				
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: <i>Tom Wang</i>	kontrolliert von / reviewed by: <i>Sam Lin</i>				
19.06.2014	Tom Wang / Assistant Project Manager		23.06.2014	Sam Lin / Senior Project Manager	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: This report is for DSS equipment class.					
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(fail) = 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(fail) = 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>					

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 PEAK OUTPUT POWER

RESULT: Passed

5.1.3 20dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Passed

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Passed

5.1.5 SPURIOUS EMISSIONS

RESULT: Passed

5.1.6 FREQUENCY SEPARATION

RESULT: Passed

5.1.7 NUMBER OF HOPPING FREQUENCY

RESULT: Passed

5.1.8 TIME OF OCCUPANCY

RESULT: Passed

5.1.9 RADIATED EMISSIONS

RESULT: Passed

5.1.10 CONDUCTED EMISSIONS

RESULT: Passed

6.1.1 MAXIMUM PERMISSIBLE EXPOSURE

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd.
(FCC Registration No.: 752051 & IC Registration Number: 5077A-2)

F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park,
Nanshan District, Shenzhen, 518057, P.R. China

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

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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
Radio Spectrum Test				
EMI Test Receiver	Rohde & Schwarz	ESPI-3	100396/003	2015-01-11
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
Conducted emissions				
EMI Test Receiver	Rohde & Schwarz	ESCS30	100307	2015-01-11
LISN	Schwarzbeck	NLSK8126	8126431	2015-01-10
Radiated emissions				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2015-01-11
EMI Test Receiver	Rohde & Schwarz	ESPI3	101526/003	2015-01-11
Pre-Amplifier	Rohde & Schwarz	CBLU1183540-01	3791	2015-01-11
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2015-01-11
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2015-01-11
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	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 basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table,

Items		Extended Uncertainty
CE	Disturbance Voltage (dBuV)	U=1.94dB, k=2, σ=95%
RE (9kHz-30MHz)	Field strength (dBuV/m)	U=3.08dB, k=2, σ=95%
RE (30-1000MHz)	Field strength (dBuV/m)	U=4.42dB, k=2, σ=95%
RE (above 1000MHz)	Field strength (dBuV/m)	U=4.06dB, k=2, σ=95%

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix1 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. facility located at F1, Bldg A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park, Nanshan District, Shenzhen, 518057, 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 EUTs are an all-in-one tool that fully tests the access network as well as broadband services. It helps field technicians who roll out broadband access networks and services deliver a pristine copper access infrastructure that can support triple-play services and meet critical quality of service (QoS) and quality of experience (QoE) requirements. It can test copper, fiber asymmetrical and very high speed digital subscriber lines including bonded VDSL2 pairs internet protocol (IP) data, voice over IP (VoIP), and IP video with straightforward pass/fail results and detailed analysis of physical-and application-layer-related problems.

It contains the Wi-Fi USB dongle, model name EW-7811Un (FCC ID: NDD957811008) that manufactured by EDIMAX. Wi-Fi USB dongle supports 802.11 b/g/n 20MHz and 40MHz bandwidth. It supports Bluetooth function, the Bluetooth core specification is Bluetooth 4.0 dual mode.

These four models are identical in main board, copper board and enclosure except for DSL modem board. The EUTs belong to Class A equipment. Details of difference refer to table as below.

Difference				
Model	SCTPS-AB-CU	CSC-TPSVW-CU	SCTPS-AB	CSC-TPSVW
Digital board	✓	✓	✓	✓
Copper board	✓	✓	Removed, add metal shield	Removed, add metal shield
Modem board	✓	✓	Remove POTS feature	Remove POTS feature

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment:	SmartClass TPS
Type Designation:	SCTPS-AB-CU, CSC-TPSVW-CU, SCTPS-AB, CSC-TPSVW
FCC ID:	WUW22060931
IC:	9613A-22060931
Type of Equipment:	Class A digital equipment
Equipment Class:	DTS and DSS
Wireless Technology:	Bluetooth 4.0 and Wi-Fi
Operating Frequency Range:	2402-2480MHz for Bluetooth 2412-2462Mhz for Wi-Fi
Channel Number:	79 channels for Bluetooth 4.0 40 channels for Bluetooth 4.0 Low Energy 11 channels for Wi-Fi (802.11b/g/n) 7 channels for Wi-Fi (802.11n HT40 model only)
Channel Separation:	1MHz for Bluetooth 4.0 2MHz for Bluetooth 4.0 Low Energy 5MHz for Wi-Fi
Type of Modulation:	GFSK, 8PSK, π/4QDPSK for Bluetooth 4.0 GFSK for Bluetooth 4.0 Low Energy DSSS for Wi-Fi 802.11b OFDM for Wi-Fi 802.11g/n
Operating Voltage:	DC 12V via marketed AC/DC adapter DC 7.2V via Lithium-ion battery
Operating Temperature Range:	0°C to 40°C
Antenna Type:	Ceramic Chip Antenna for Bluetooth Printed Antenna for Wi-Fi
Smart Antenna Systems:	Not Applicable
Number of Antenna:	1 for Bluetooth 1 for Wi-Fi
Antenna Gain:	Max. 1.7 dBi for Bluetooth Max. 3.0 dBi for Wi-Fi

Table 3: Marketed AC/DC adapter

Description	Manufacturer	Model	S/N	Rating
AC/DC adapter	Advanced Power Solutions	KSAS02512 00250D5	--	Input: AC 100-240V, 50/60Hz, 0.9A; Output: DC 12V, 2.5A

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Table 4: List of Radio Frequency Channel, Bluetooth 4.0

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: List of Radio Frequency Channel, Bluetooth 4.0 Low Energy

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	--	--

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Table 6: List of Radio Frequency Channel, Wi-Fi 802.11 b/g/n 20M bandwidth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2412.00	5	2432.00	9	2452.00
2	2417.00	6	2437.00	10	2457.00
3	2422.00	7	2442.00	11	2462.00
4	2427.00	8	2447.00	--	--

Table 7: List of Radio Frequency Channel, Wi-Fi 802.11 n 40M bandwidth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
3	2422.00	6	2437.00	9	2452.00
4	2427.00	7	2442.00	--	--
5	2432.00	8	2447.00	--	--

Table 8: Frequency hopping information

Technical Specification	Description
Hopping Range	Hereby we declare that the maximum frequency of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73, 07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56, 69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43, 15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Wi-Fi function
 - a. Low Channel
 - b. Mid Channel
 - c. High Channel
 - 2. Bluetooth function
 - a. Low Channel
 - b. Mid Channel
 - c. High Channel
- B. Receiving
- C. Standby
- D. Ethernet TE testing
- E. DSL testing
- F. IP Data testing
- G. VoIP testing
- H. IP Video testing
- I. Copper testing
- J. Battery Charging
- K. 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

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation 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.

During testing, test software BlueSuite provided by the applicant was used to control the operating channel as well as output power for Bluetooth operation.

Due to descriptions in clause 3.1, all tests were applied on model SCTPS-AB-CU, but only radiated emissions and conducted emissions were applied on both models.

Table 9: List of Frequencies under Test, Bluetooth operation

RF Channel of Bluetooth 4.0		
Channel	Channel number	Frequency (MHz)
Low	0	2402.00
Middle	39	2441.00
High	78	2480.00

4.3 Special Accessories and Auxiliary Equipment

Table 10: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Notebook PC	Lenovo	4290-RT8	R9-FW93G	--
Printer	HP	HP Laserjet 1015	CNFG030424	--
Telephone	TCL	HCD868(37) TSD	010YOB20A30811 003108	--
Telephone PAXB System	XINLITONG	108B	--	--
Wireless Router	D-Link	DIR-605L	PK331BC000582	--
VDSL2 CO	Aware	VERITAS 3	ADS-020011001	Input: DC 48V

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

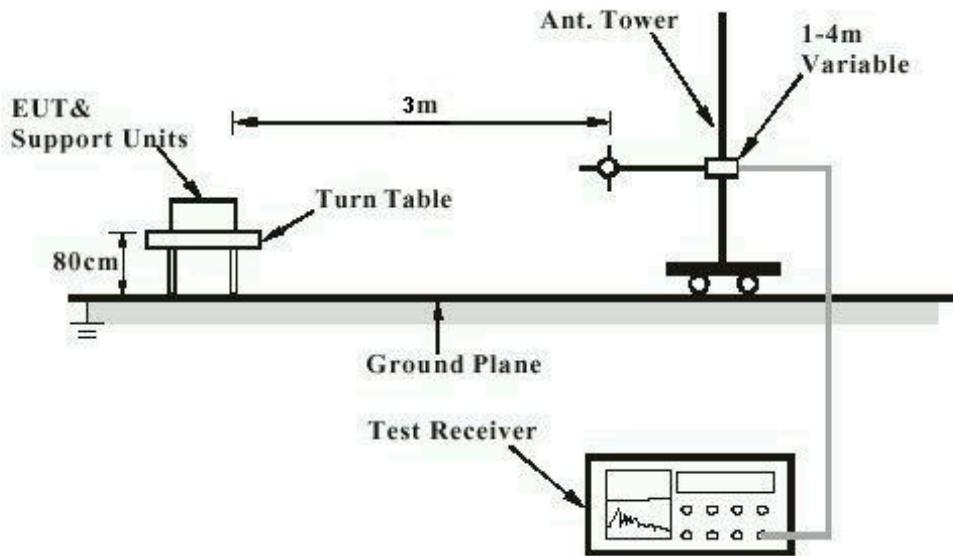
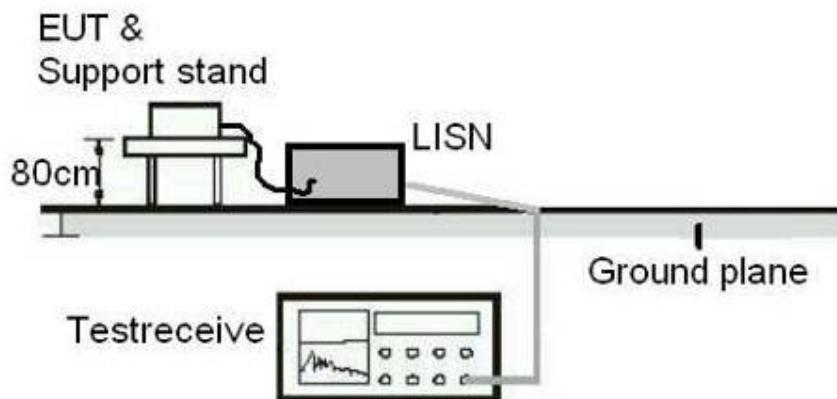


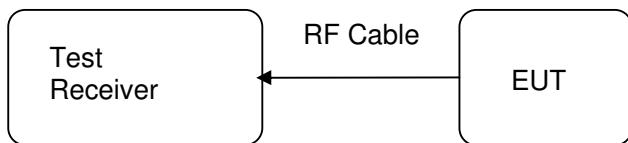
Diagram of Measurement Equipment Configuration for Conduction Measurement



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Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: Passed

Test date	:	2014-03-14 to 2014-05-22
Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.7dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to compliance the provision.

Refer to EUT photo for details.

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5.1.2 Peak Output Power

RESULT:

Passed

Test date	:	2014-03-14 to 2014-05-22
Test standard	:	FCC Part 15.247(b)(1) RSS-210 A8.4(2)
Basic standard	:	ANSI C63.4: 2009
Limit	:	0.125Watt
Kind of test site	:	Shielded room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.2
Ambient temperature	:	22°C
Relative humidity	:	51%
Atmospheric pressure	:	101.0 kPa

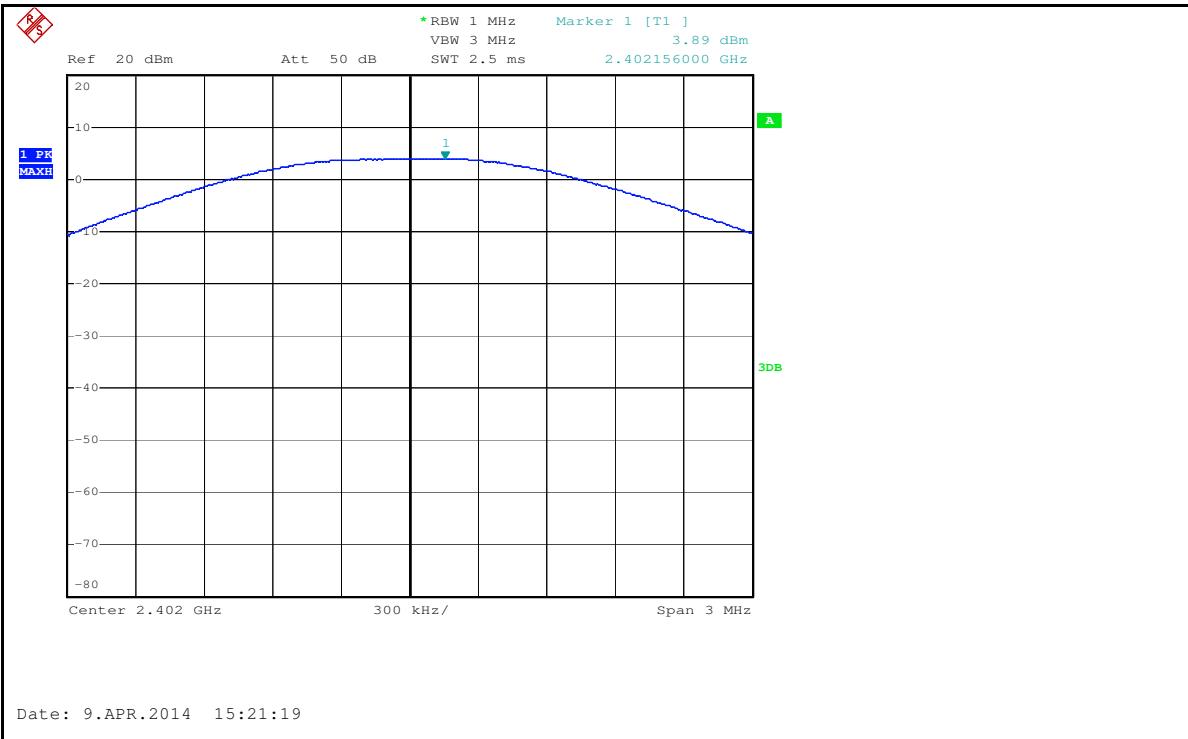
Table 11: Test result of Peak Output Power

Channel	Channel Frequency (MHz)	BDR mode		
		Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	3.89	0.00245	0.125
Middle Channel	2441	6.03	0.00401	0.125
High Channel	2480	6.96	0.00497	0.125
Channel	Channel Frequency (MHz)	EDR mode		
		Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	2.64	0.00184	0.125
Middle Channel	2441	5.35	0.00343	0.125
High Channel	2480	6.21	0.00418	0.125

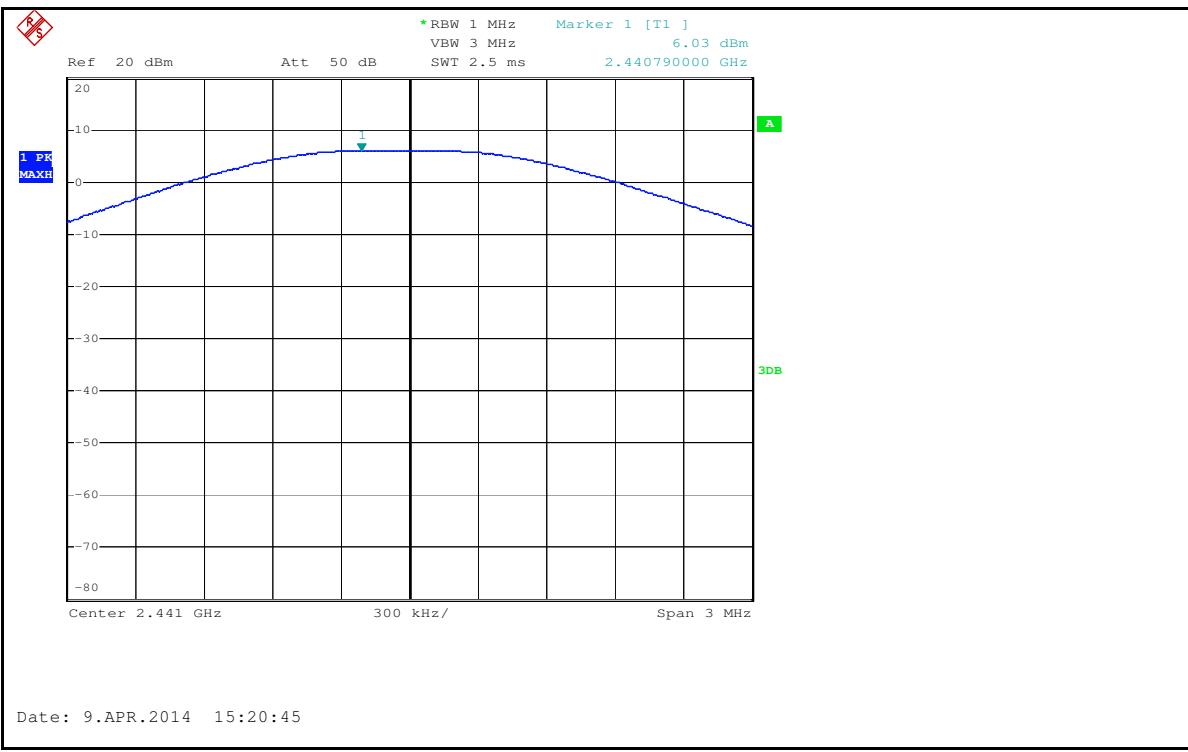
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Test Graph of Peak Output Power, BDR mode
Low Channel



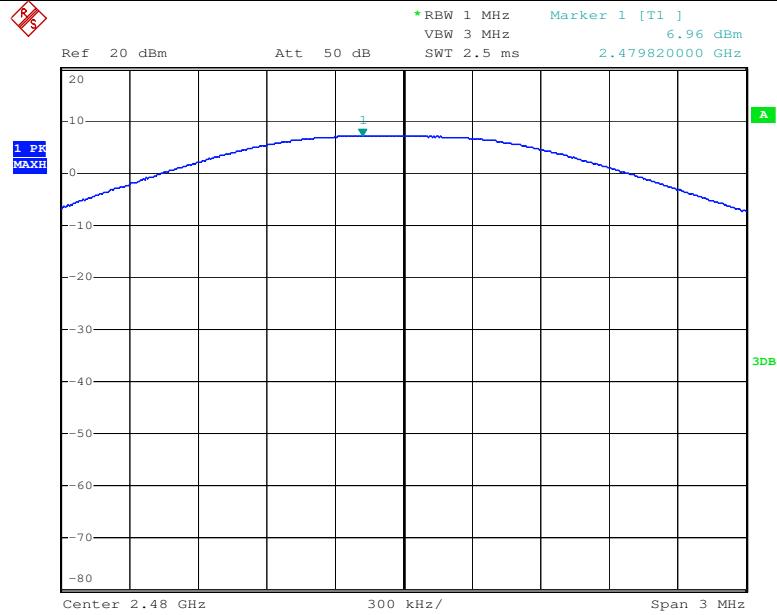
Middle Channel



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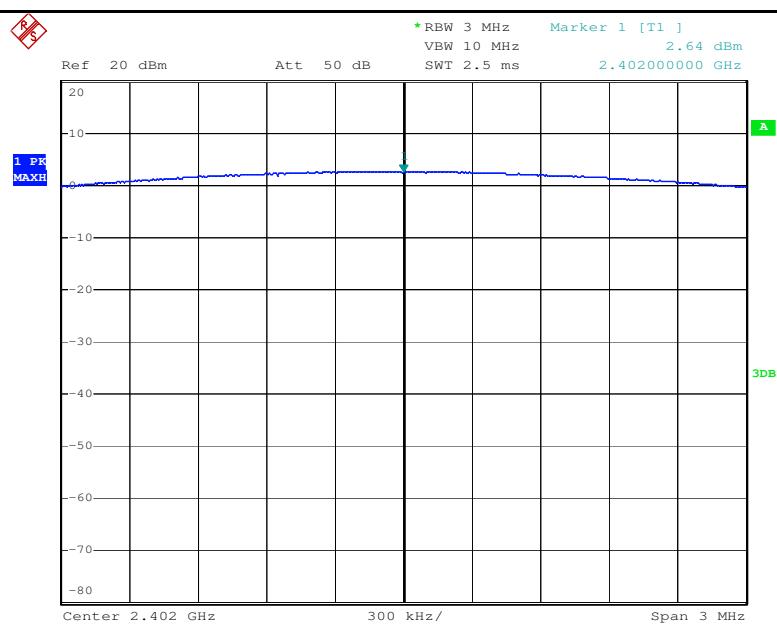
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High Channel



Date: 9.APR.2014 15:21:53

Test Graph of Peak Output Power, EDR mode
Low Channel

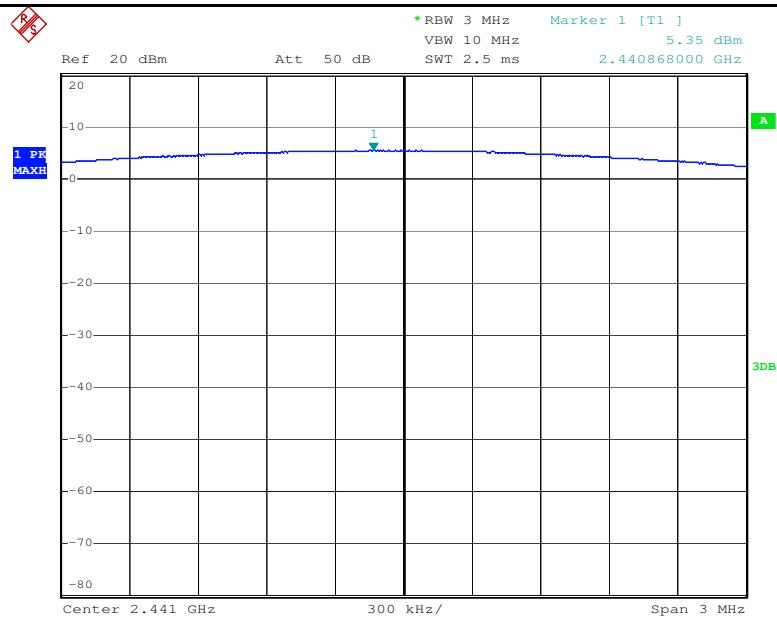


Date: 9.APR.2014 15:18:33

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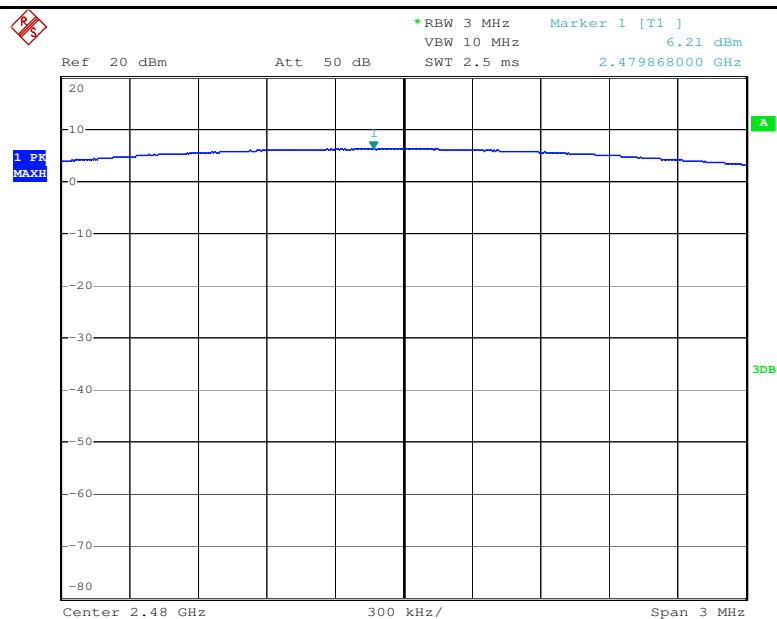
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Middle Channel



Date: 9.APR.2014 15:17:53

High Channel



Date: 9.APR.2014 15:19:15

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5.1.3 20dB Bandwidth and 99% Bandwidth

RESULT:

Passed

Date of testing : 2014-03-14 to 2014-05-22
 Test standard : FCC Part 15.247(a)(1)
 RSS-210 A8.1(a)
 Basic standard : ANSI C63.4: 2009
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : A.2
 Ambient temperature : 22°C
 Relative humidity : 51%
 Atmospheric pressure : 101.0 kPa

Table 12: Test result of 20dB Bandwidth and 99% Bandwidth

BDR mode				
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Result
Low Channel	2402	954	960	Pass
Mid Channel	2441	954	972	Pass
High Channel	2480	948	972	Pass

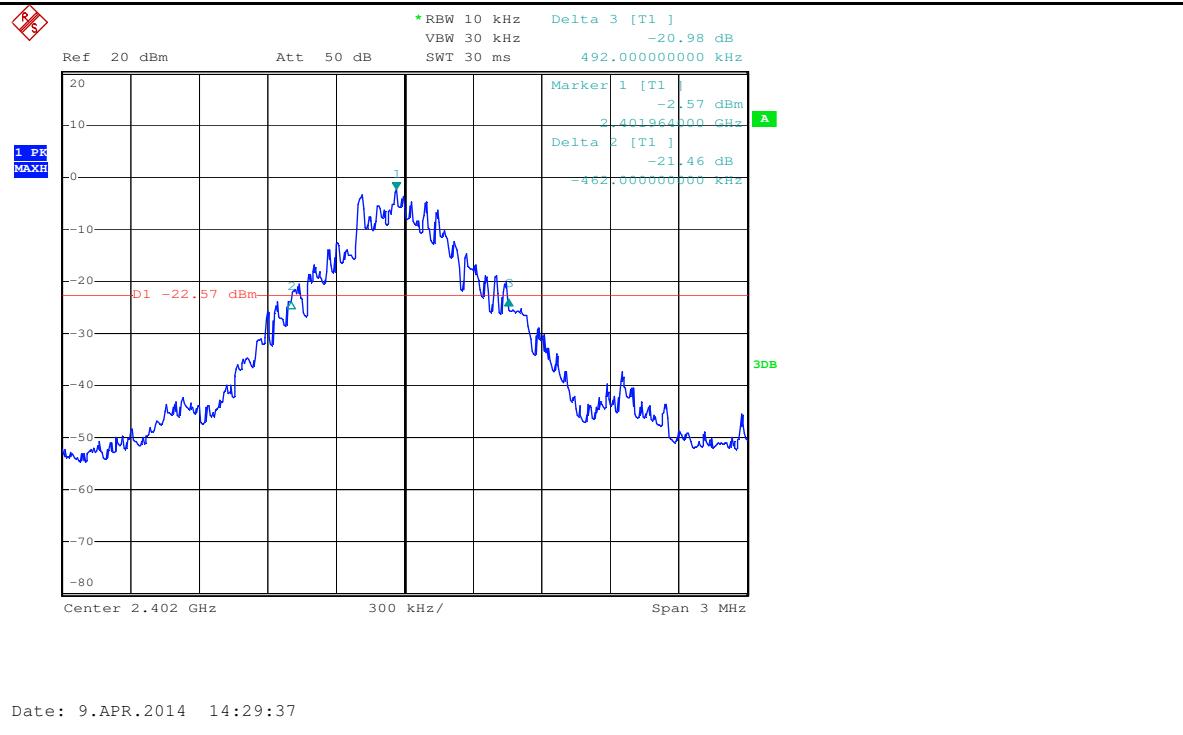
EDR mode				
Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)	Result
Low Channel	2402	1236	1206	Pass
Mid Channel	2441	1212	1218	Pass
High Channel	2480	1212	1212	Pass

Prüfbericht - Nr.: 17038645 001
Test Report No.

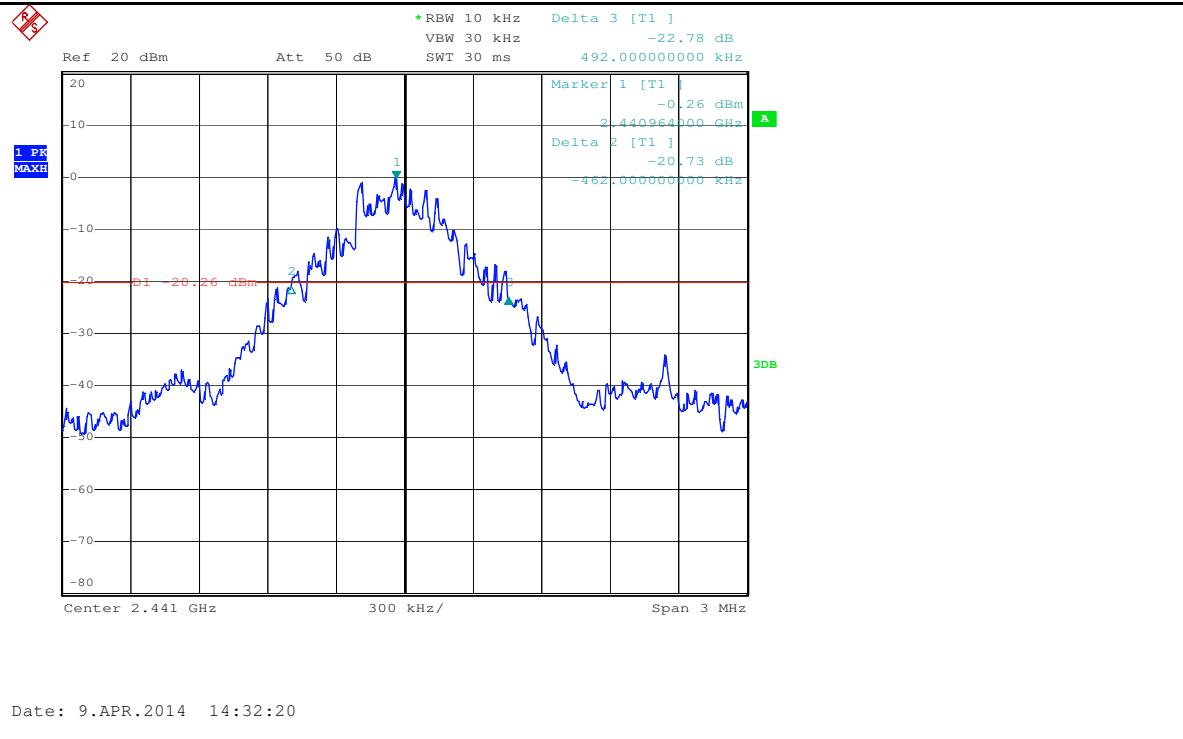
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Test Graph of 20dB Bandwidth, BDR mode

Low Channel



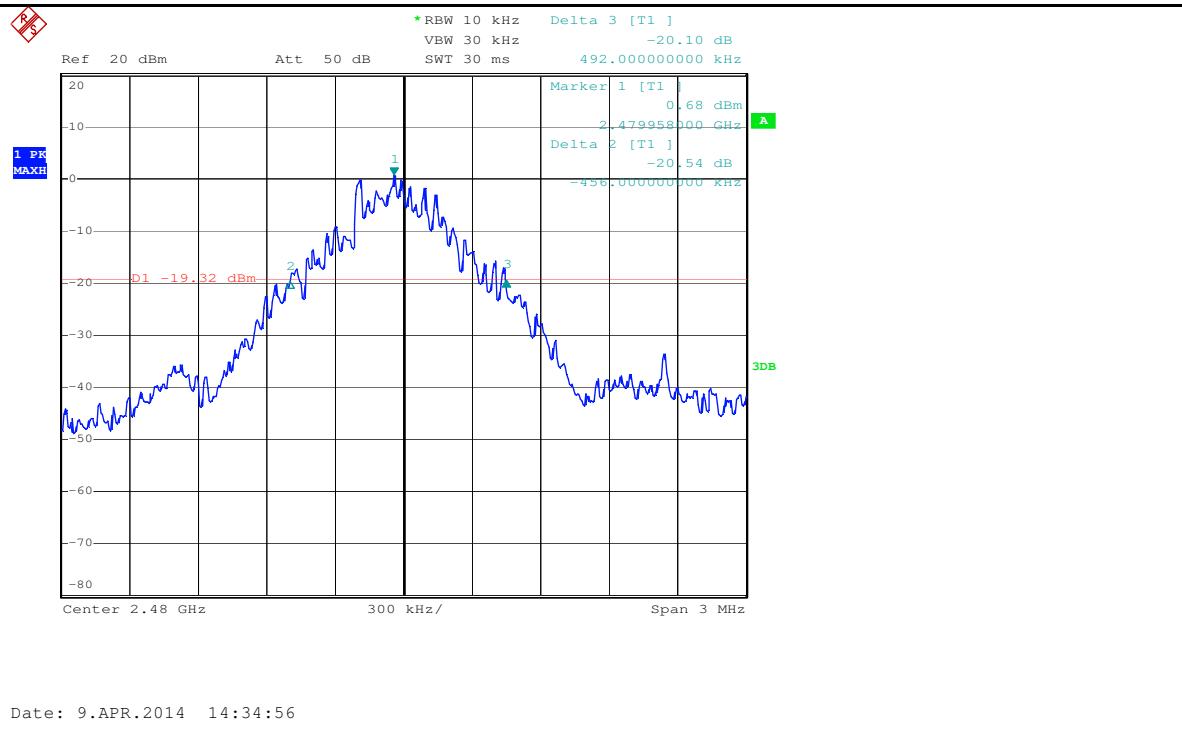
Middle Channel



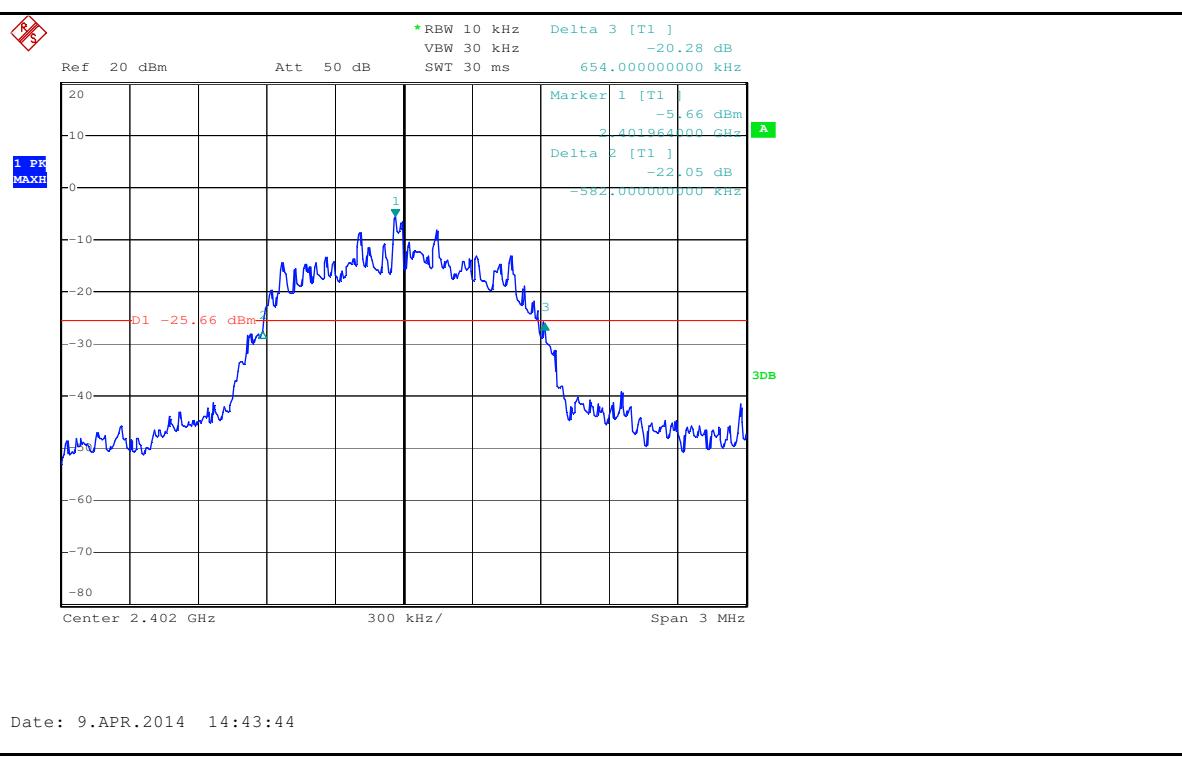
Prüfbericht - Nr.: 17038645 001
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High Channel



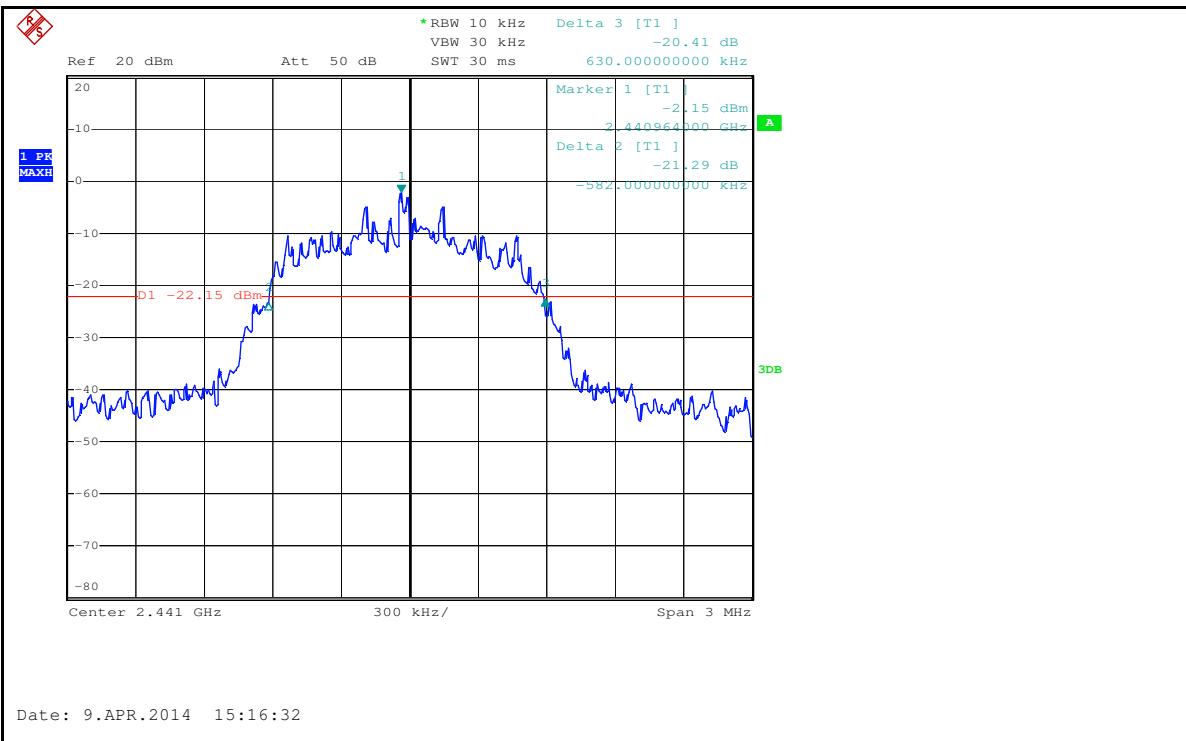
**Test Graph of 20dB Bandwidth, EDR mode
Low Channel**



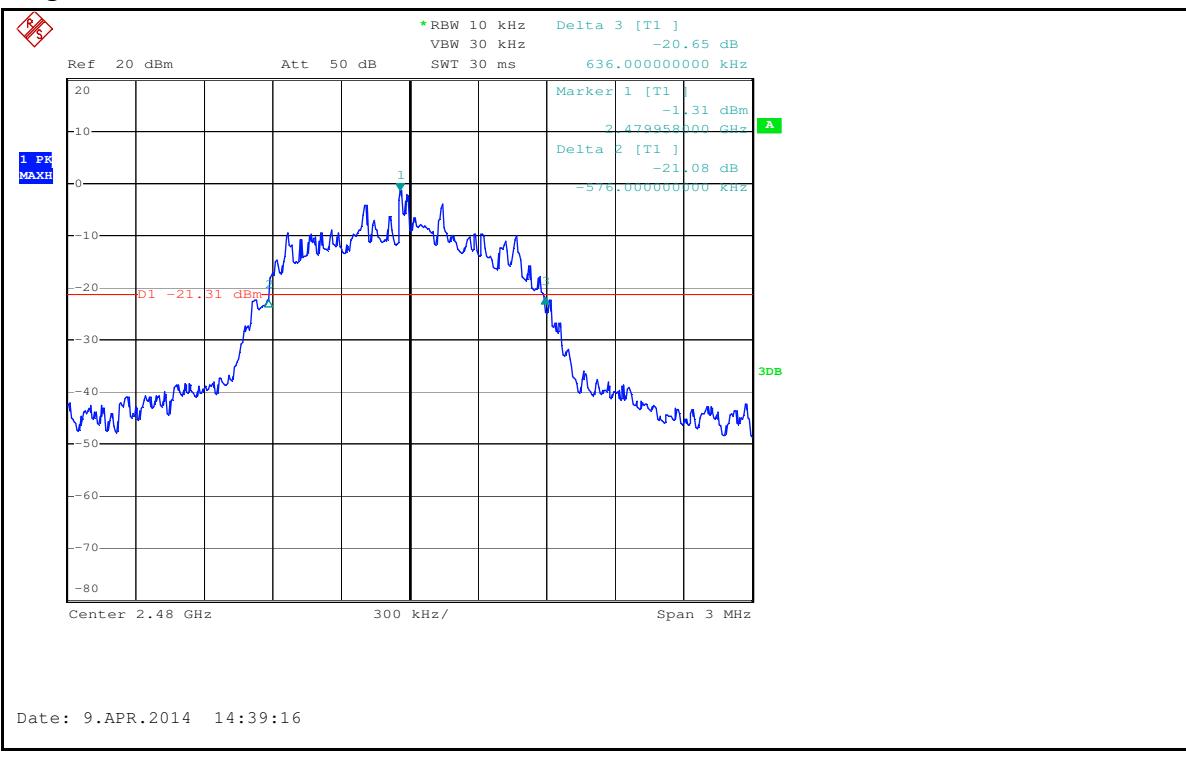
Prüfbericht - Nr.: 17038645 001
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Middle Channel



High Channel

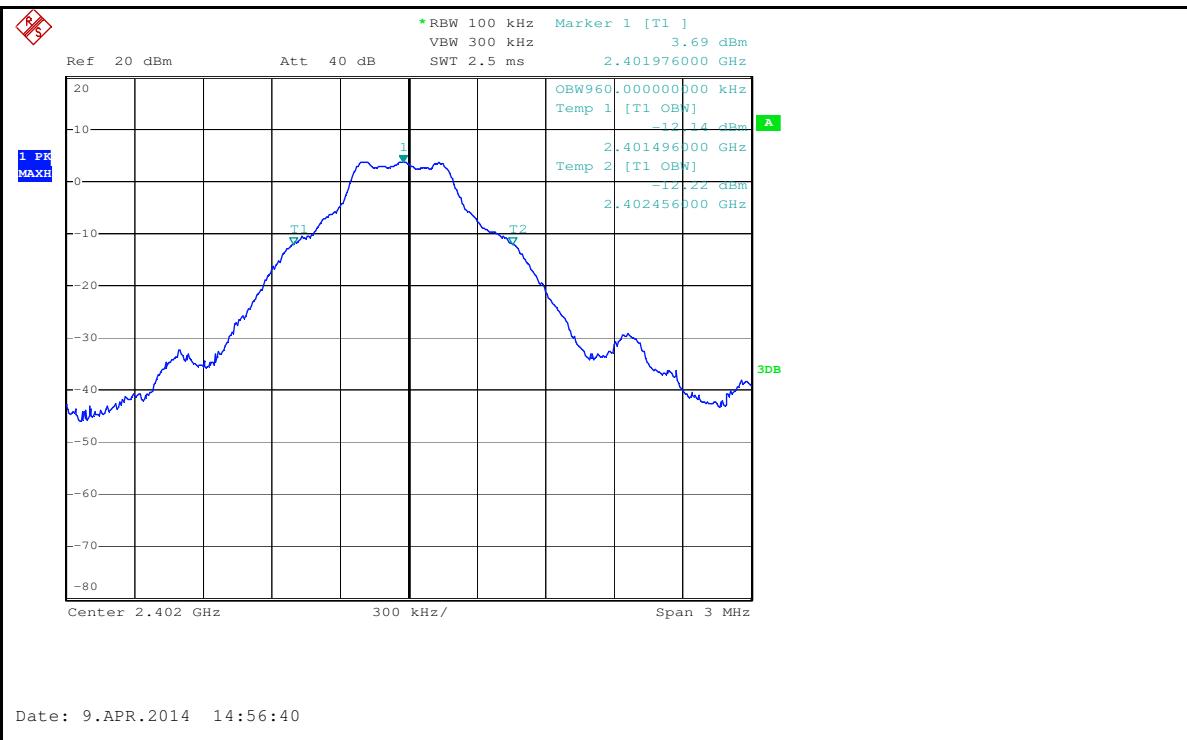


Prüfbericht - Nr.: 17038645 001
Test Report No.

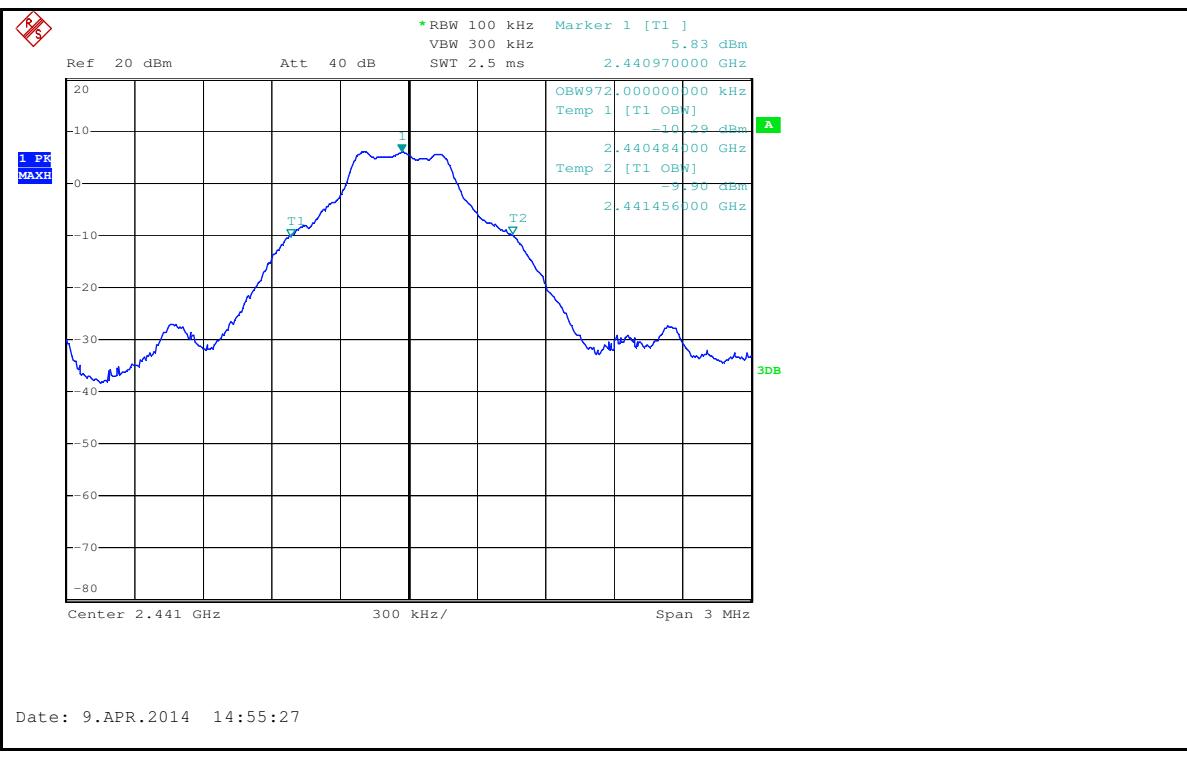
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Test Graph of 99% Bandwidth, BDR mode

Low Channel



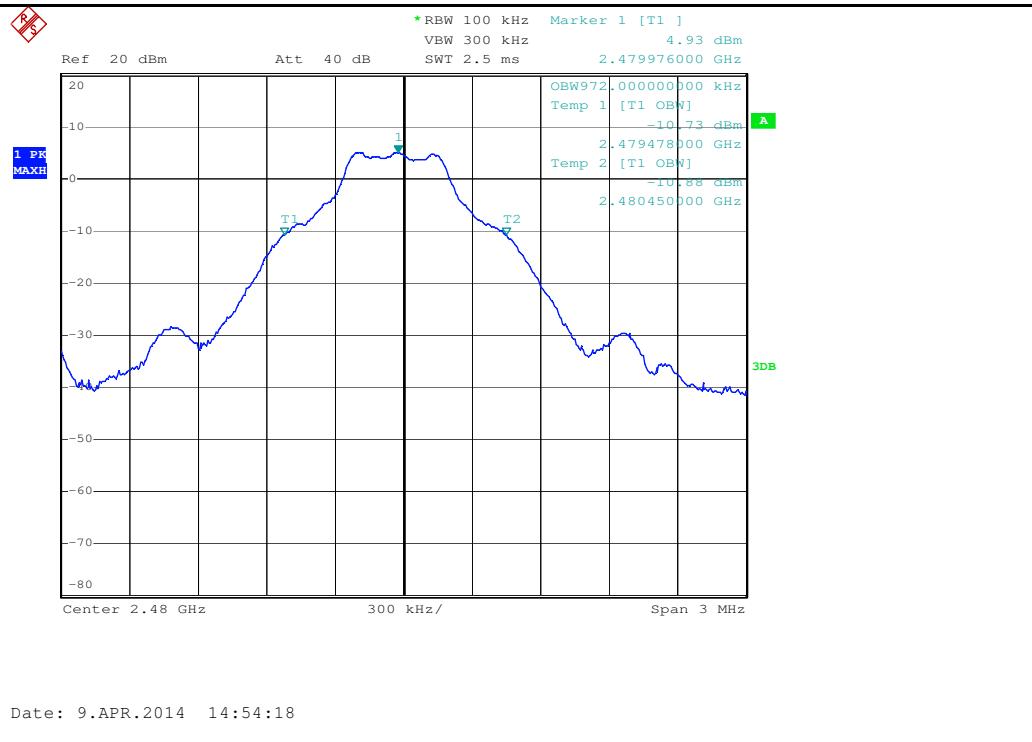
Middle Channel



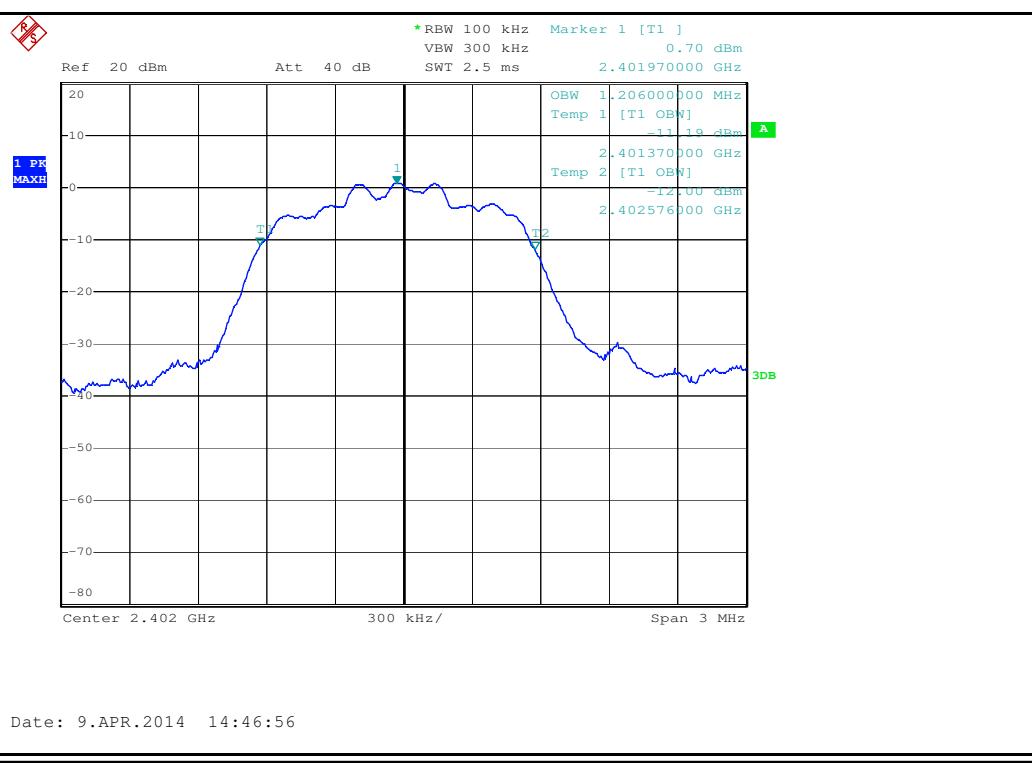
Prüfbericht - Nr.: 17038645 001
Test Report No.

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High Channel



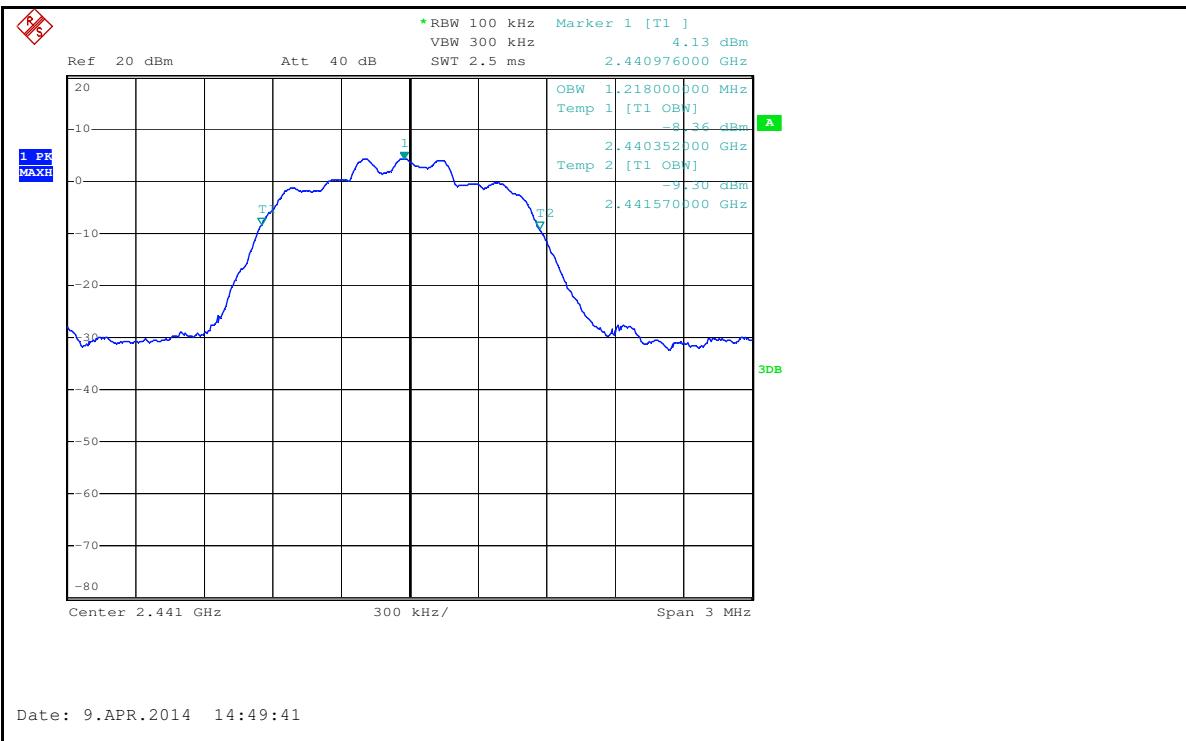
**Test Graph of 99% Bandwidth, EDR mode
Low Channel**



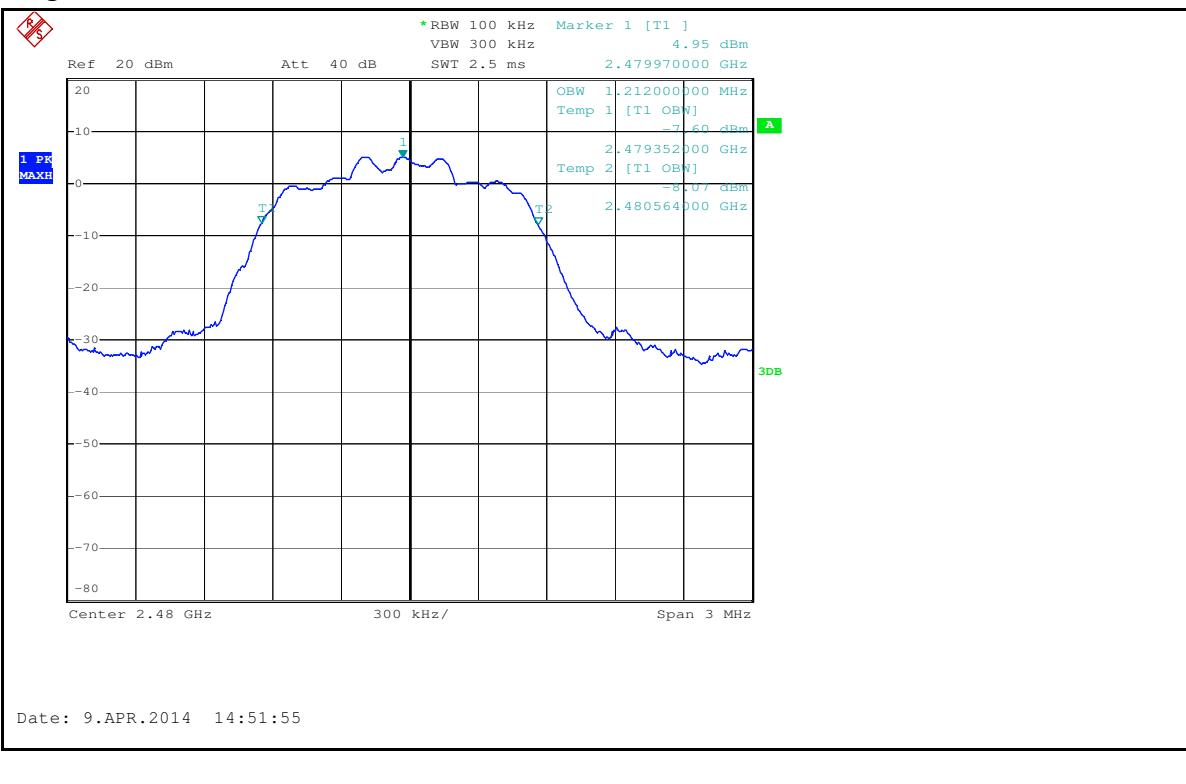
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Middle Channel



High Channel



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5.1.4 Conducted Spurious Emissions measured in 100 kHz Bandwidth

RESULT:**Passed**

Date of testing	:	2012-03-23 to 2012-05-04
Test standard	:	FCC part 15.247(d) RSS-210 A8.5
Basic standard	:	ANSI C63.4: 2009
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shield room

Test setup

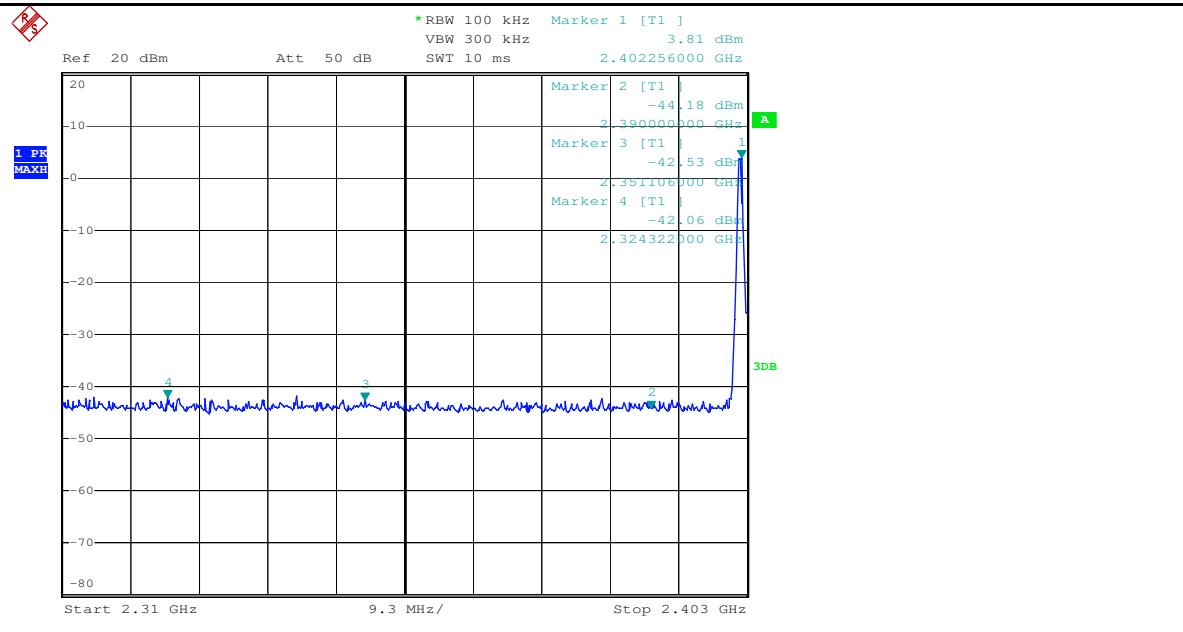
Test Channel	:	Low/ Middle/ High
Operation mode	:	A.2
Ambient temperature	:	22°C
Relative humidity	:	51%
Atmospheric pressure	:	101.0 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test graph, and compliance is achived as well.

Prüfbericht - Nr.: 17038645 001
Test Report No.

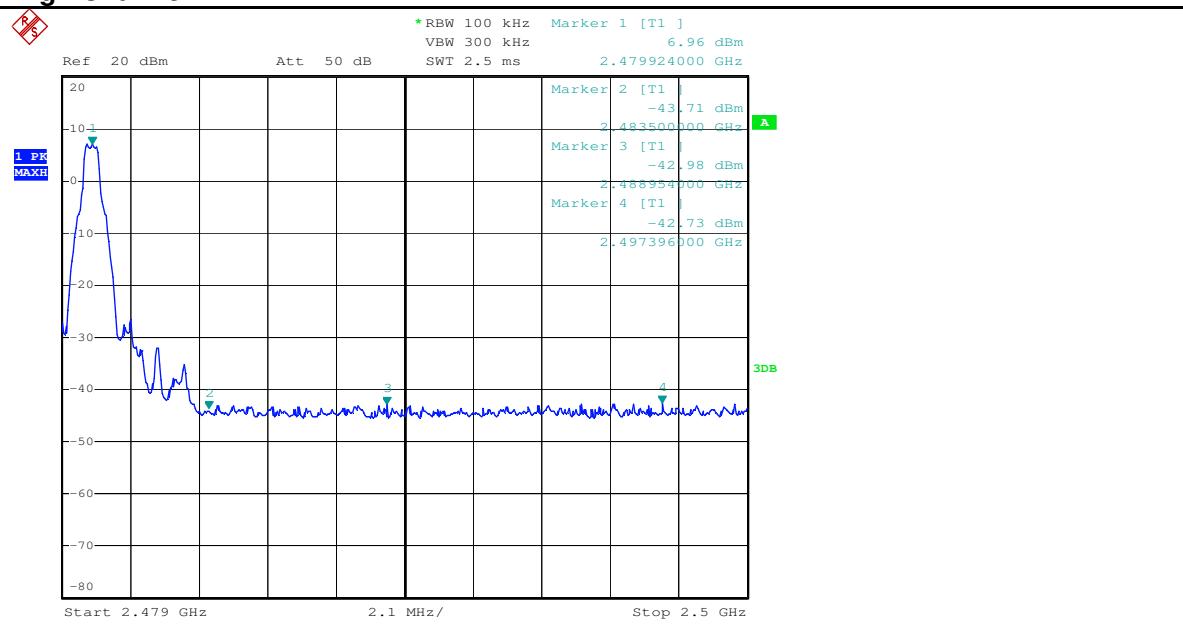
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**Test Graph of 100 kHz Bandwidth of Frequency Band Edge,
BDR mode
Low Channel**



Date: 9.APR.2014 15:26:53

High Channel

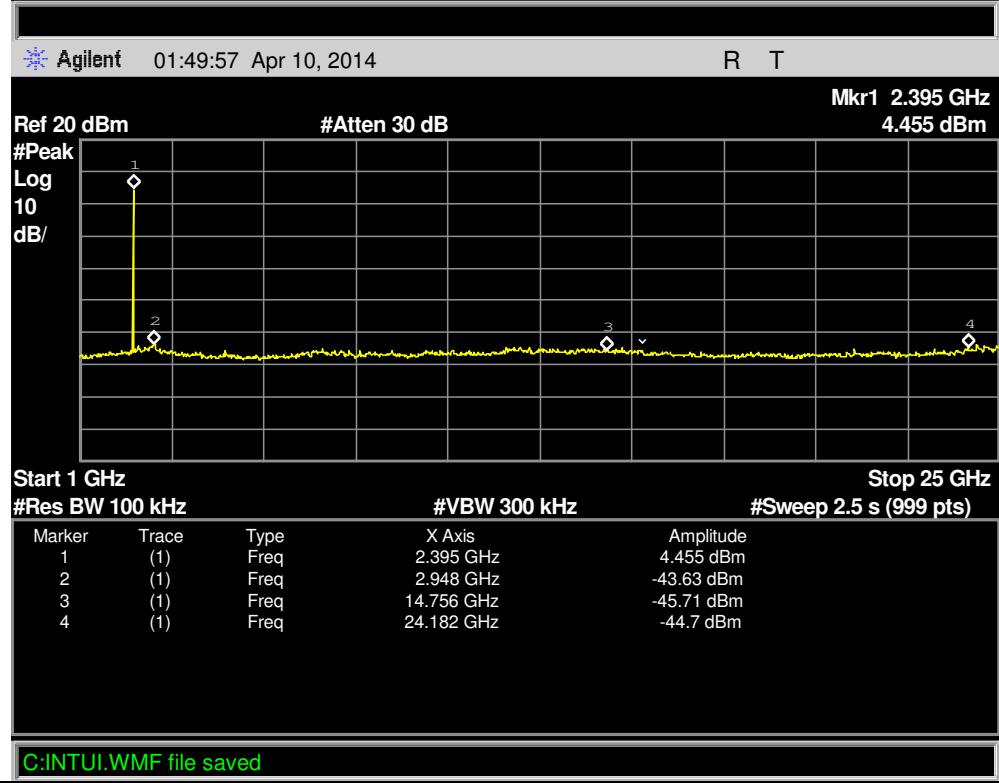
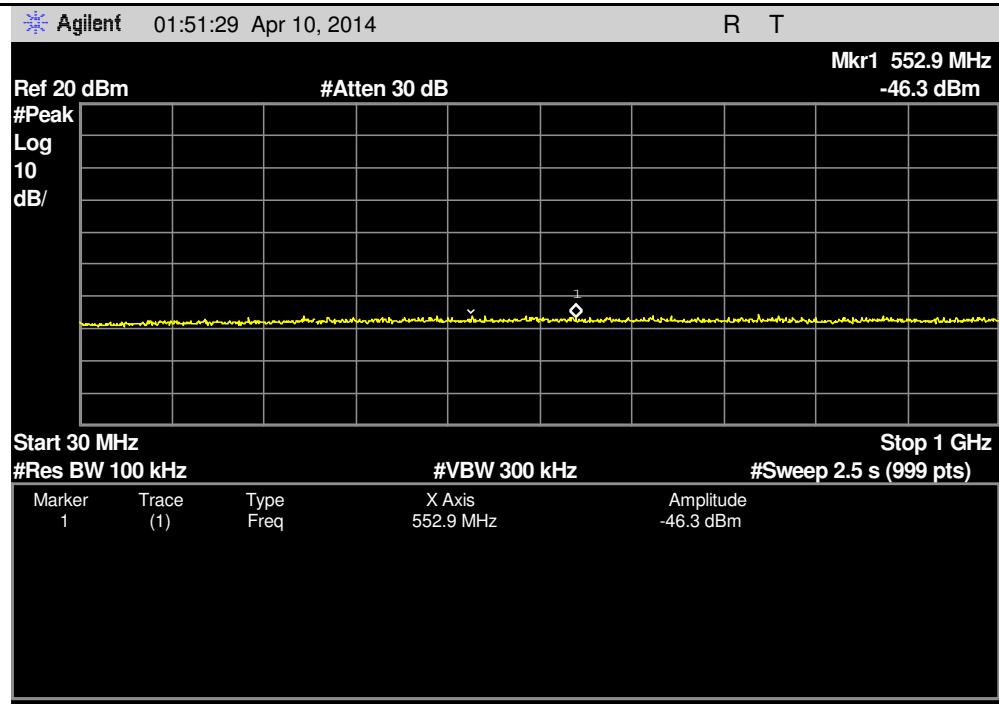


Date: 9.APR.2014 15:33:01

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Test Report No.

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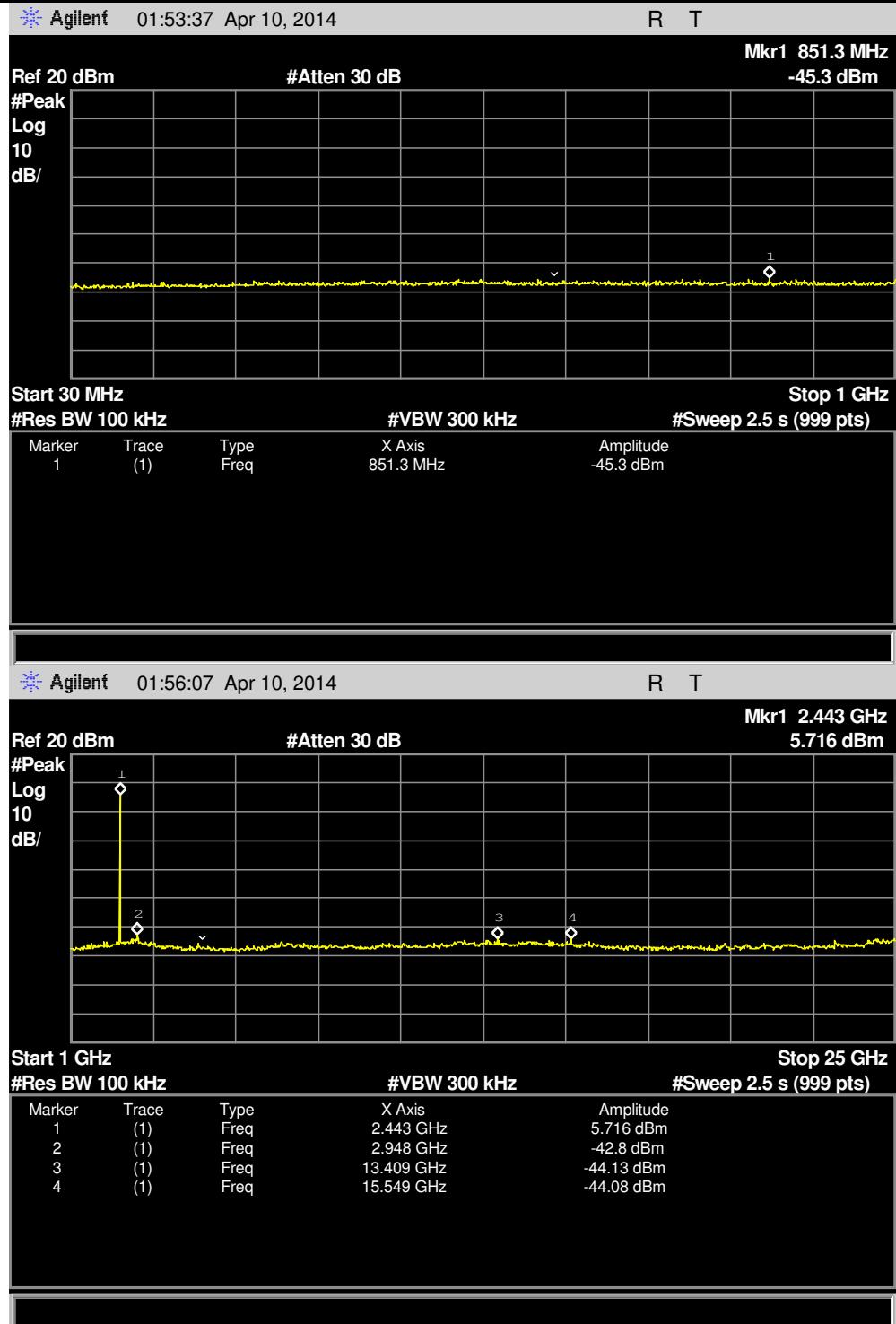
**Test Graph of Conducted spurious emissions measured in
100 kHz Bandwidth, BDR mode
Low Channel**



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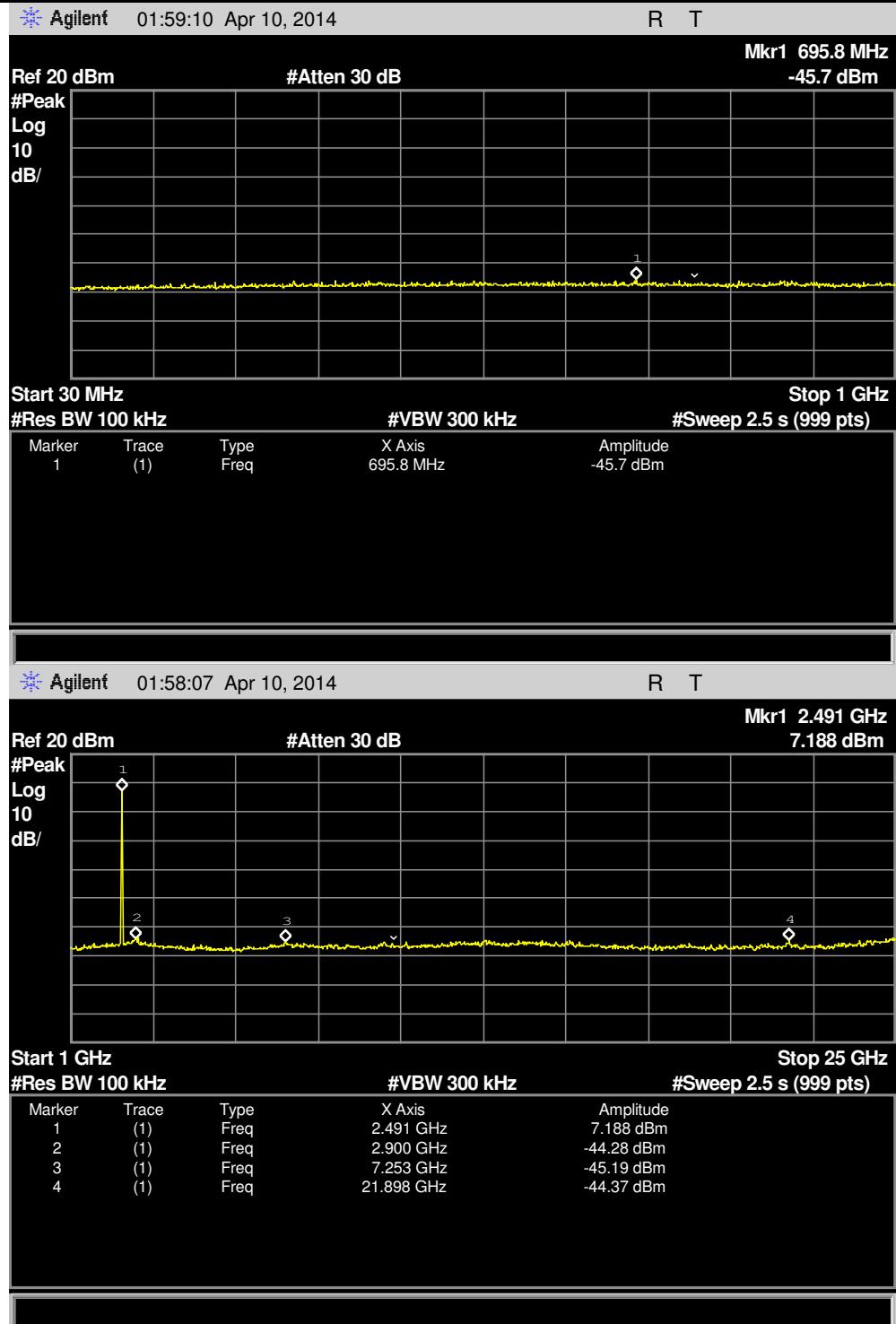
Middle Channel



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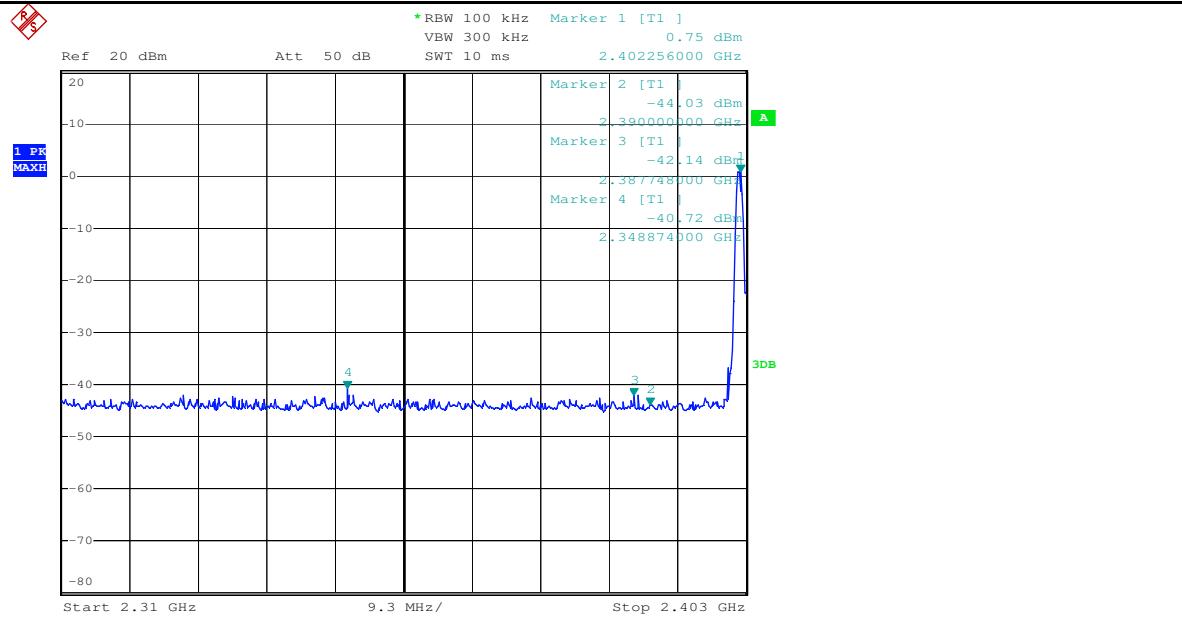
High Channel



Prüfbericht - Nr.: 17038645 001
Test Report No.

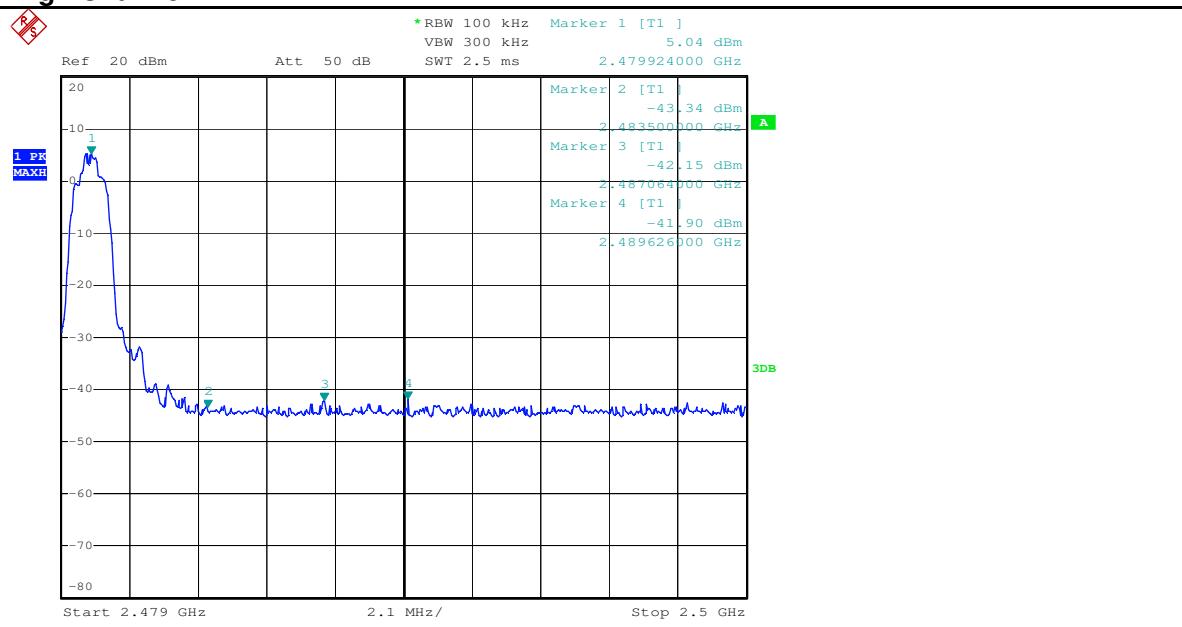
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**Test Graph of 100 kHz Bandwidth of Frequency Band Edge,
EDR mode
Low Channel**



Date: 9.APR.2014 15:29:33

High Channel

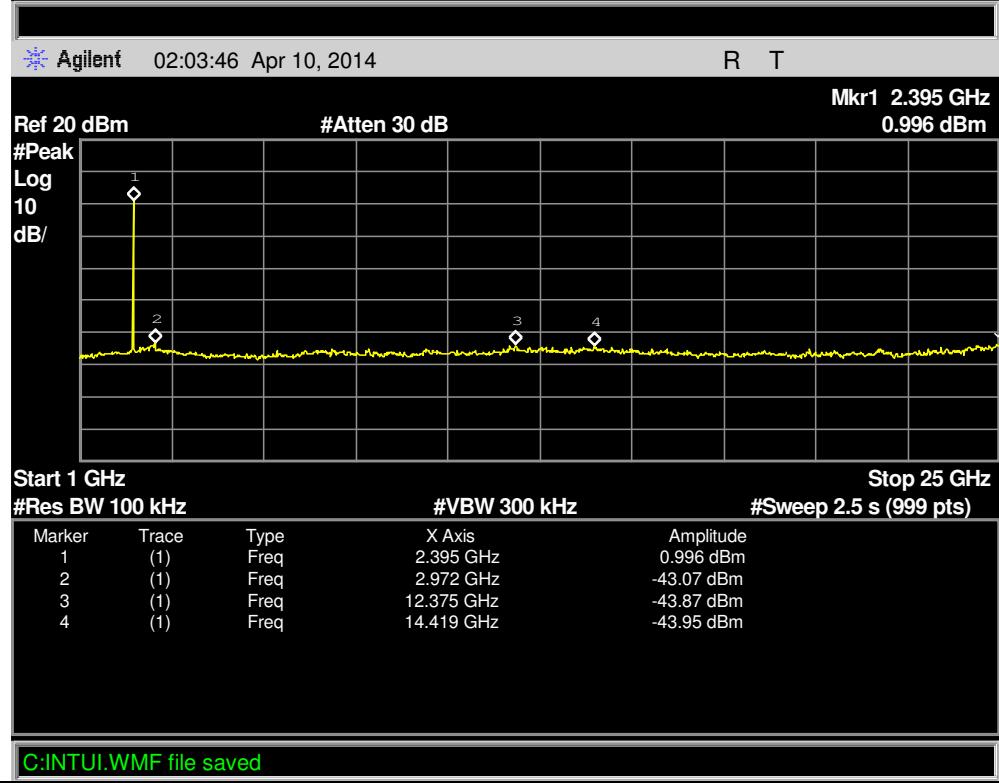
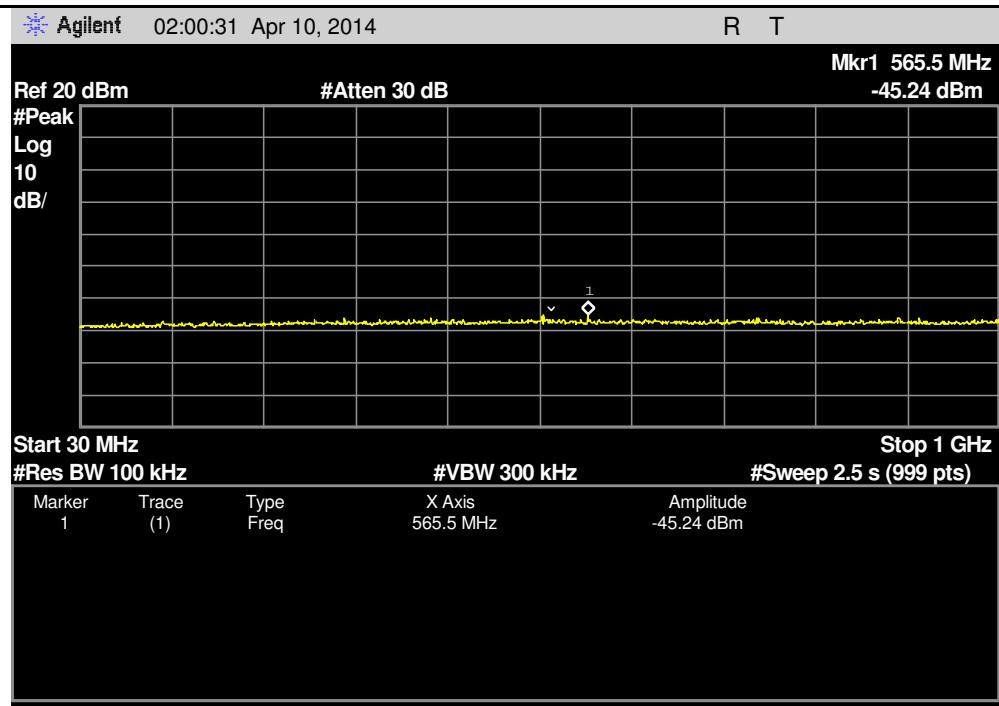


Date: 9.APR.2014 15:31:23

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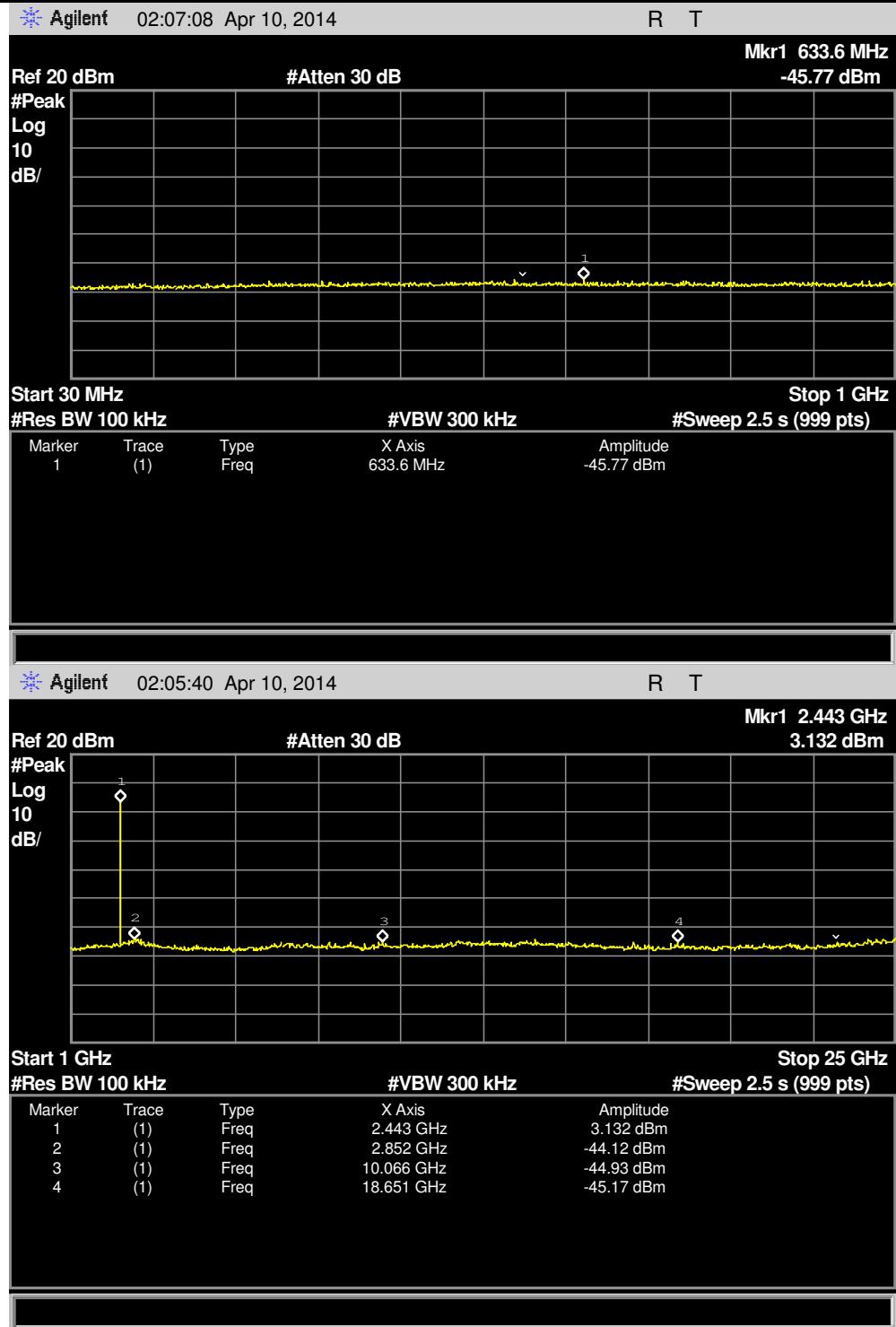
**Test Graph of Conducted spurious emissions measured in
100 kHz Bandwidth, EDR mode
Low Channel**



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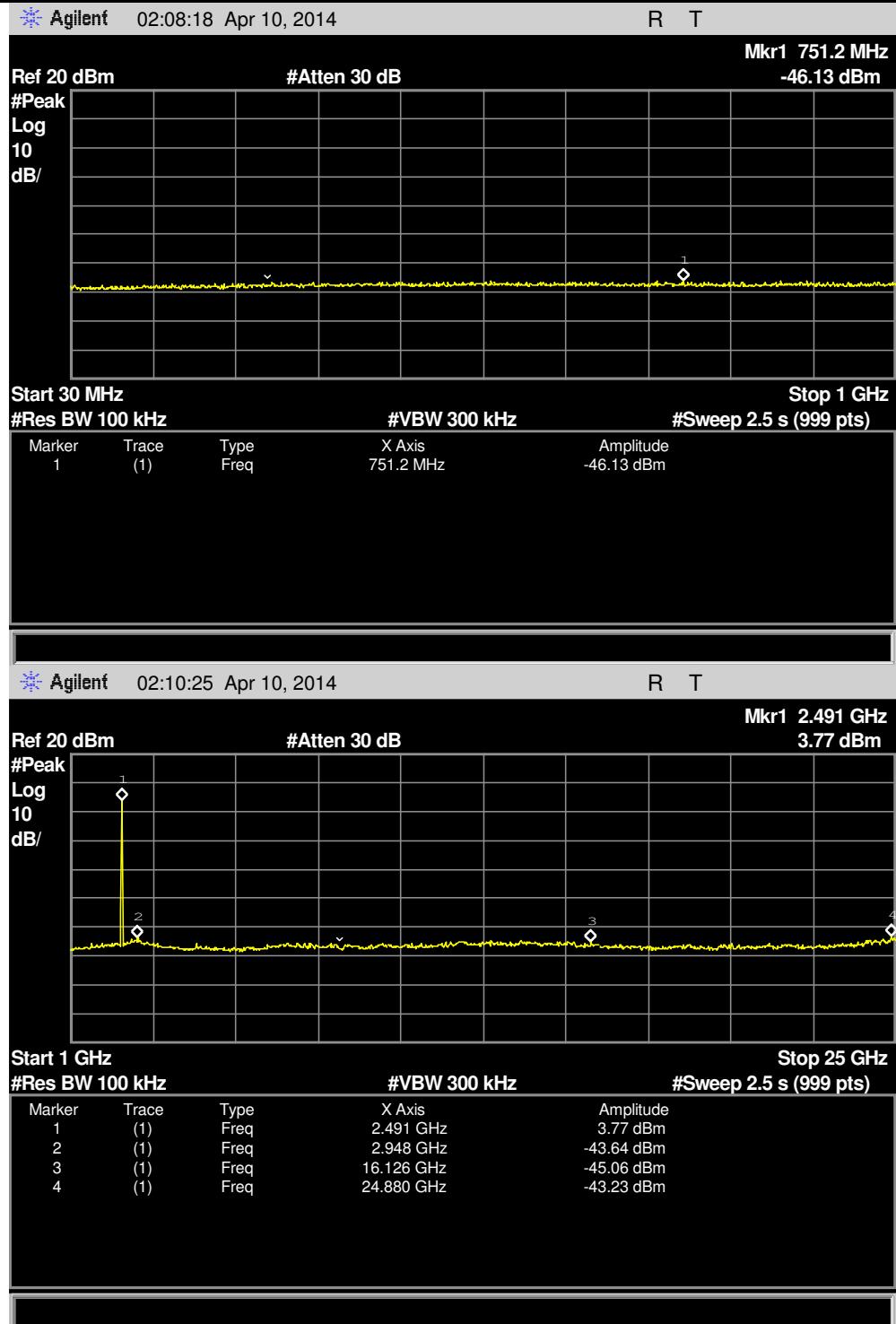
Middle Channel



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High Channel



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5.1.5 Spurious Emissions

RESULT:**Passed**

Date of testing : 2014-03-14 to 2014-05-22
Test standard : FCC part 15.247(d)
Basic standard : ANSI C63.4: 2009
Limits : Refer to 15.209(a)
RSS-210 Clause 2.5
Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
Operation mode : A.2
Ambient temperature : 23°C
Relative humidity : 48%
Atmospheric pressure : 101.0 kPa

Refer to attached Appendix 1 for details.

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5.1.6 Frequency Separation

RESULT:

Passed

Date of testing	:	2014-03-14 to 2014-05-22
Test standard	:	FCC part 15.247(a)(1) RSS-210 A8.1(b)
Basic standard	:	ANSI C63.4: 2009
Limit	:	≥ 25kHz 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.2
Ambient temperature	:	22°C
Relative humidity	:	51%
Atmospheric pressure	:	101.0 kPa

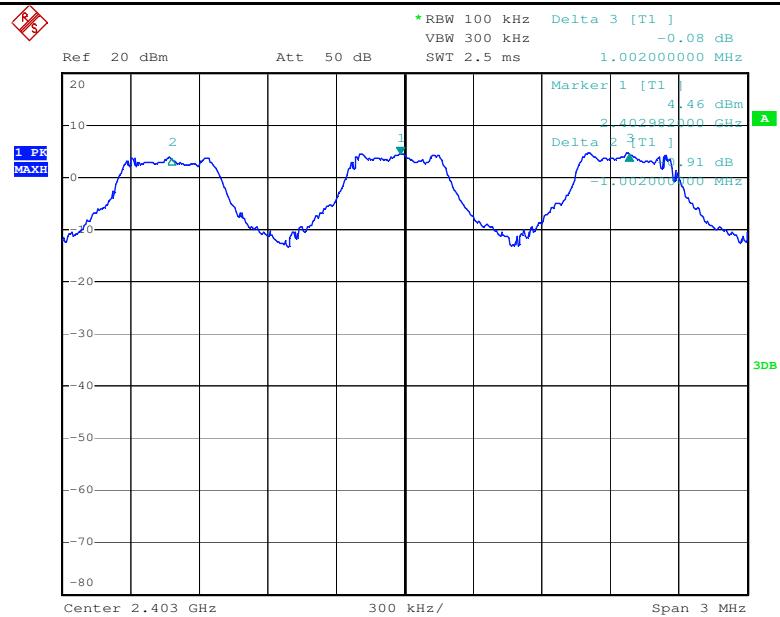
Table 13: Test result of Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2442			
High Channel	2480	1	≥ 25kHz or two-thirds of 20dB bandwidth	Pass
Adjacency Channel	2479			

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Test Report No.

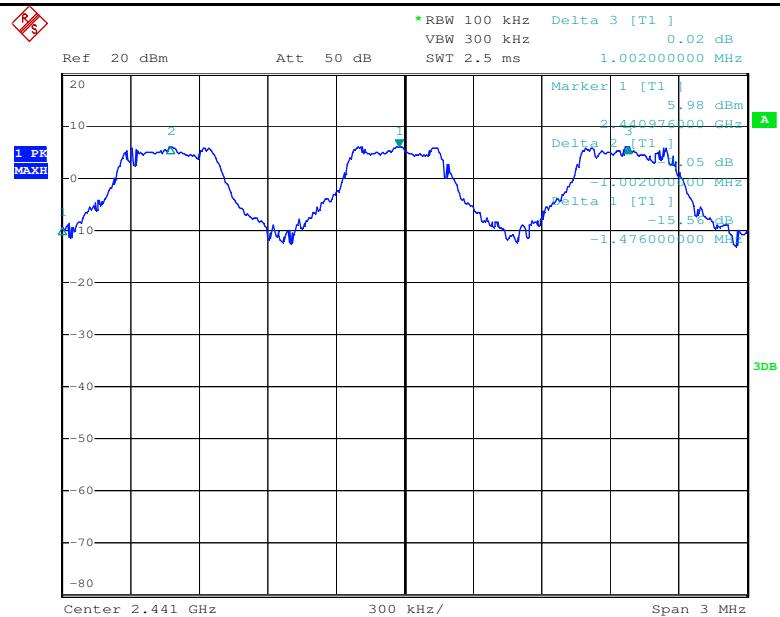
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Test Graph of Frequency Separation
Low Channel



Date: 9.APR.2014 14:19:52

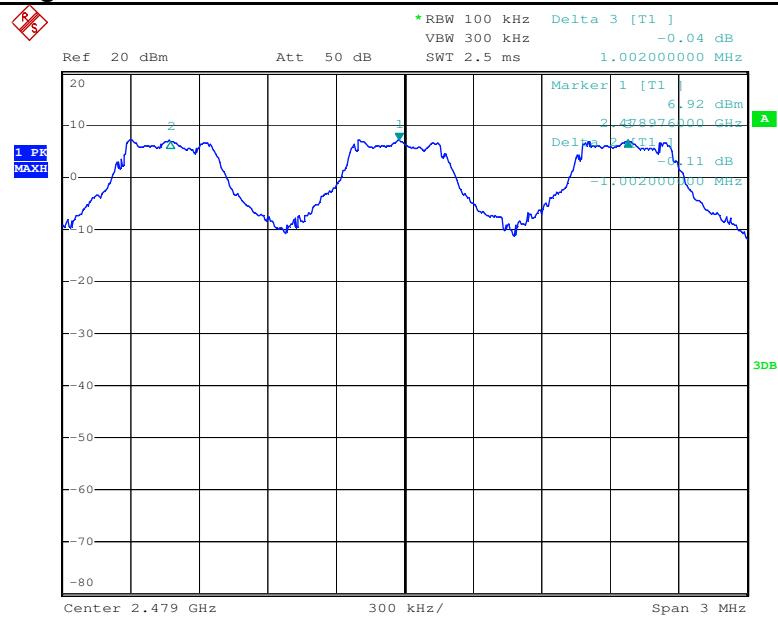
Middle Channel



Date: 9.APR.2014 14:13:15

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High Channel



Date: 9.APR.2014 14:24:17

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5.1.7 Number of hopping frequency

RESULT:**Passed**

Date of testing : 2014-03-14 to 2014-05-22
Test standard : FCC part 15.247(a)(1)(iii)
RSS-210 A8.1(d)
Basic standard : ANSI C63.4: 2009
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shield room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A.2
Ambient temperature : 22°C
Relative humidity : 51%
Atmospheric pressure : 101.0 kPa

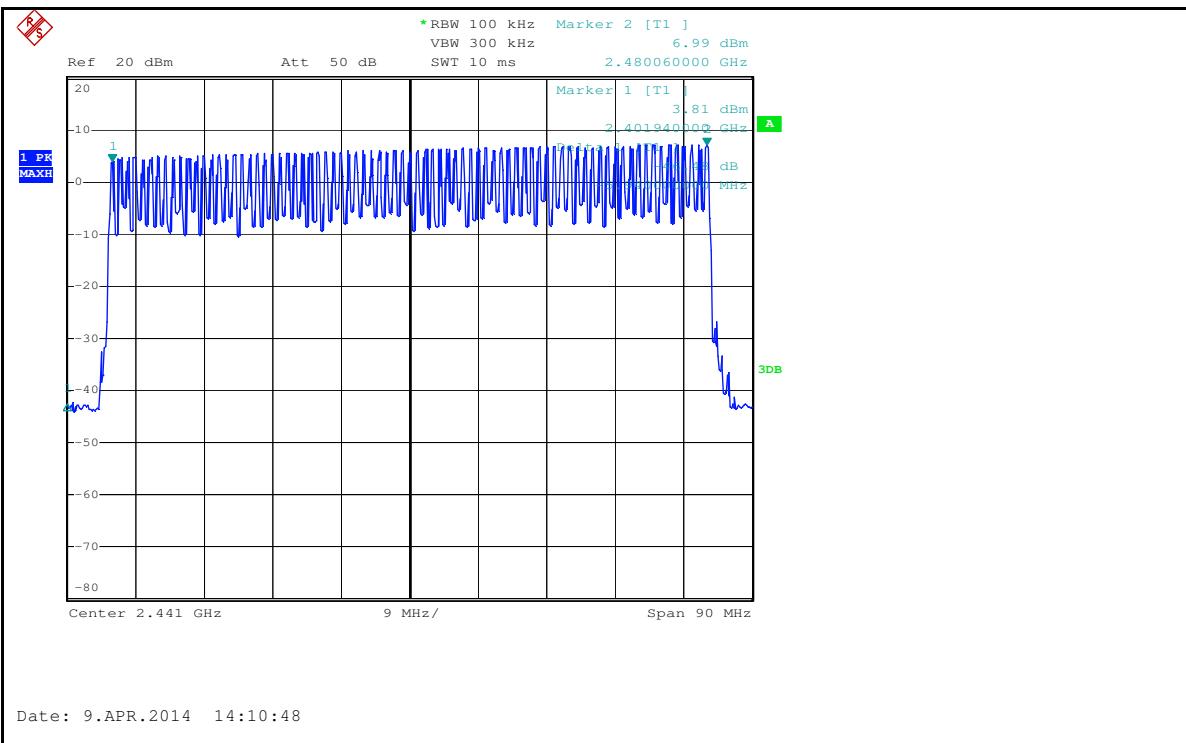
Table 14: Test result of Number of hopping frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥ 15	Pass

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Test Graph of Number of hopping frequency



5.1.8 Time of Occupancy

RESULT:**Passed**

Date of testing	:	2014-03-14 to 2014-05-22
Test standard	:	FCC part 15.247(a)(1)(iii) RSS-210 A8.1(d)
Basic standard	:	ANSI C63.4: 2009
Limits	:	0.4s
Kind of test site	:	Shield room

Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.2
Ambient temperature	:	22°C
Relative humidity	:	51%
Atmospheric pressure	:	101.0 kPa

Table 15: Test result of Time of Occupancy

Data Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
DH1	0.43	0.14	0.4	Pass
DH3	1.70	0.27	0.4	Pass
DH5	2.99	0.32	0.4	Pass

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

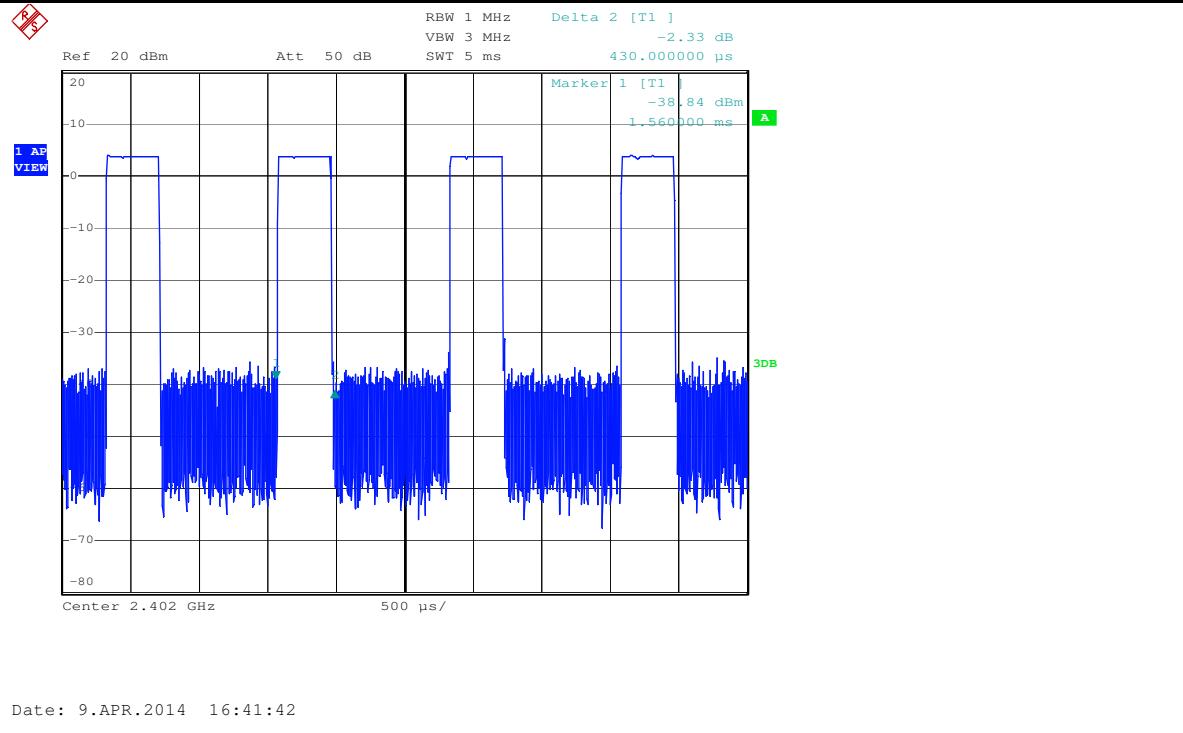
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

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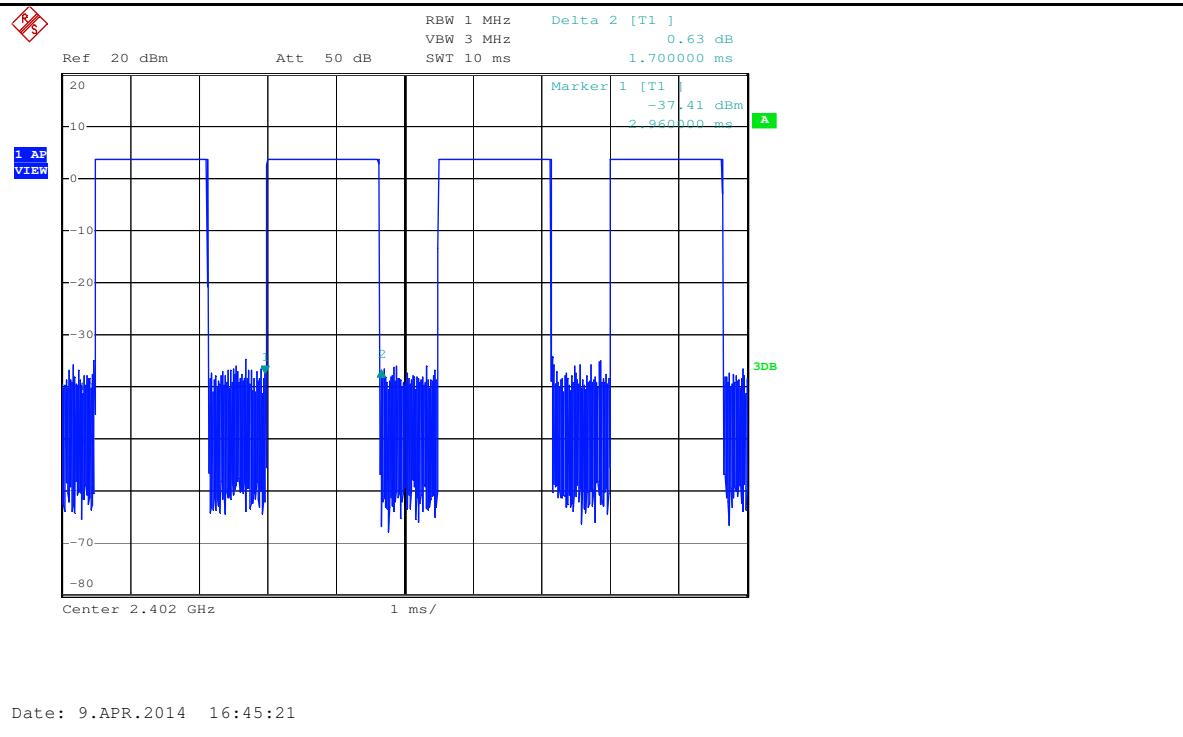
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Test Graph of Time of Occupancy

DH1 mode

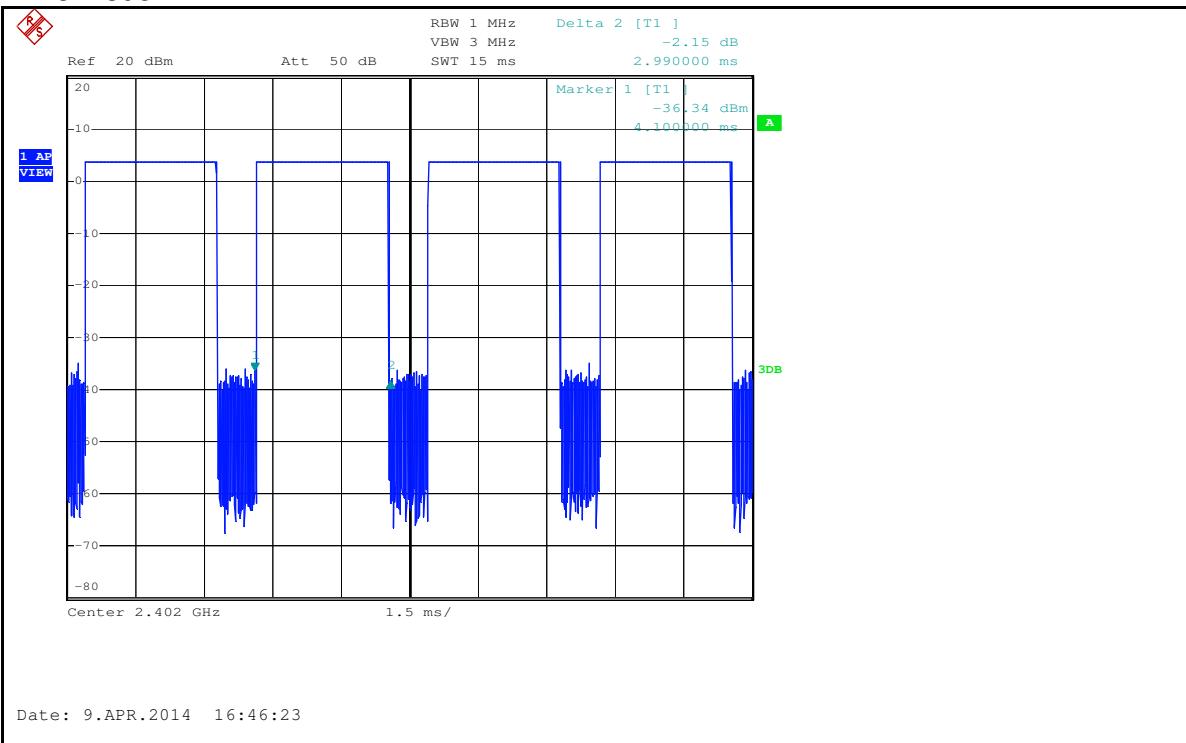


DH3 mode



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DH5 mode



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5.1.9 Radiated emissions

RESULT:

Passed

Date of testing	:	2014-03-14 to 2014-05-22
Test standard	:	FCC Part 15.109 RSS-Gen 7.1.4
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	30 – 6000MHz
Limits	:	FCC Part 15.109(a) ICES-003
Kind of test site	:	3m Semi-Anechoic Chamber

Test Setup

Input Voltage	:	DC 12V (via AC/DC adapter)
Operation Mode	:	A+B, D, E, F, G, H, I, J
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101.0 kPa

Refer to following test graphs for details.

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5.1.10 Conducted emissions

RESULT:**Passed**

Date of testing	:	2014-03-14 to 2014-05-22
Test standard	:	FCC Part 15.207 FCC Part 15.107 RSS-210 Clause 2.6
Basic standard	:	ANSI C63.4: 2009
Frequency range	:	0.15MHz – 30MHz
Limits	:	FCC Part 15.207(a) FCC Part 15.107(a) Table 4 of RSS Gen
Kind of test site	:	Shield Room

Test Setup

Input Voltage	:	DC 12V (via AC/DC adapter)
Operation Mode	:	A+B, D, E, F, G, H, I, J
Ambient temperature	:	24°C
Relative humidity	:	50%
Atmospheric pressure	:	101.0 kPa

Refer to following test graphs for details.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Maximum Permissible Exposure

RESULT:**Passed**

Test standard : RSS-102 Issue 4
FCC KDB Publication 447498
FCC 1.1310

MPE Calculation

$$\text{According to the formula } Pd = \frac{Pout * G}{4R^2\pi}$$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = Antenna gain in numeric

π = 3.14159

R = Distance between observation point and the center of radiator in cm

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping the safety distance from the antenna should be included in the user manual.

The highest measured power is 6.96dBm at 2480 MHz for Bluetooth operation, hence the Maximum Permissible Exposure (MPE) value:

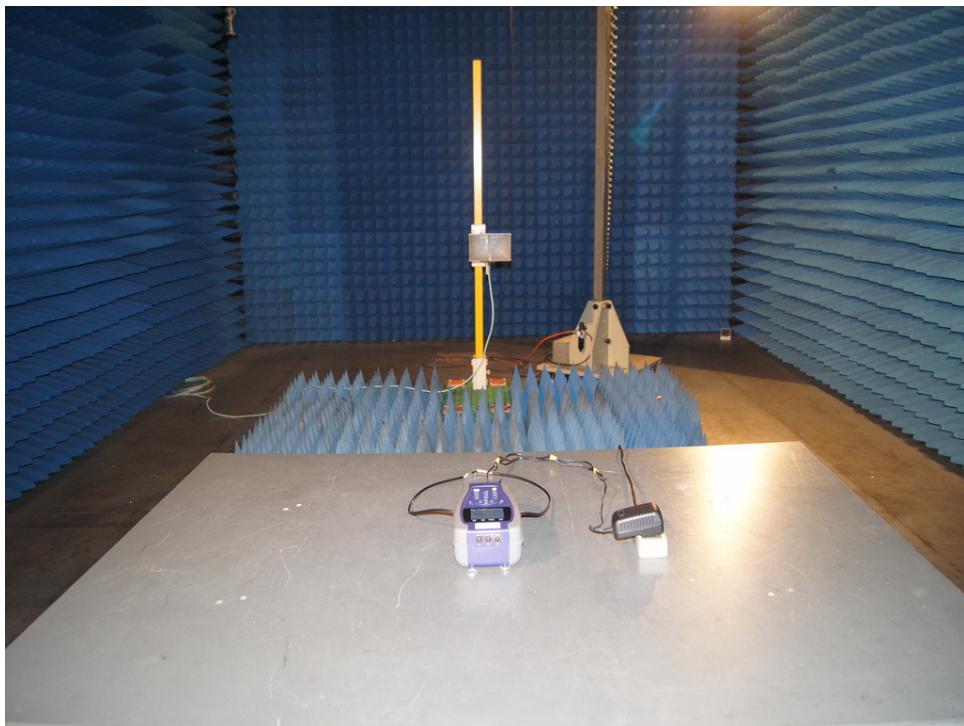
$$\text{Bluetooth operation: } Pd = \frac{Pout * G}{4R^2\pi} = \frac{4.97 * 1.479}{4 * 20^2 * 3.14159} = 0.000146 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

$$\text{Wi-Fi operation: } Pd = \frac{Pout * G}{4R^2\pi} = \frac{127.057 * 1.995}{4 * 20^2 * 3.14159} = 0.0504 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

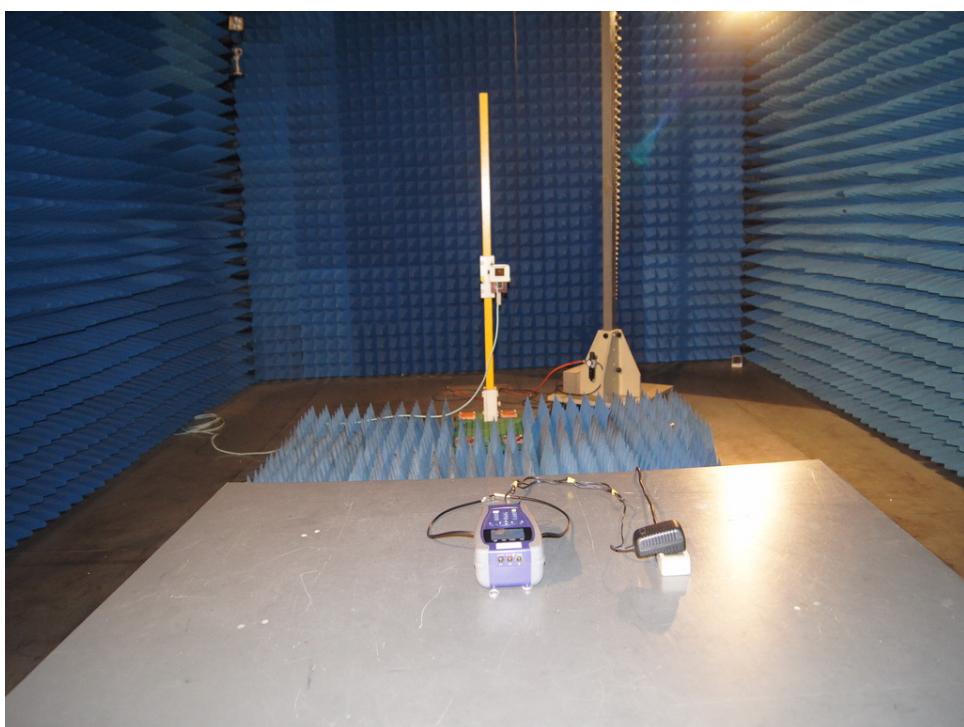
The summed maximum permissible exposure (MPE) level is 0.05055mW/cm². It is less than MPE limit 1mW/cm², therefore the device is exclusion from SAR test, and compliance with MPE limit.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (1GHz-18GHz)



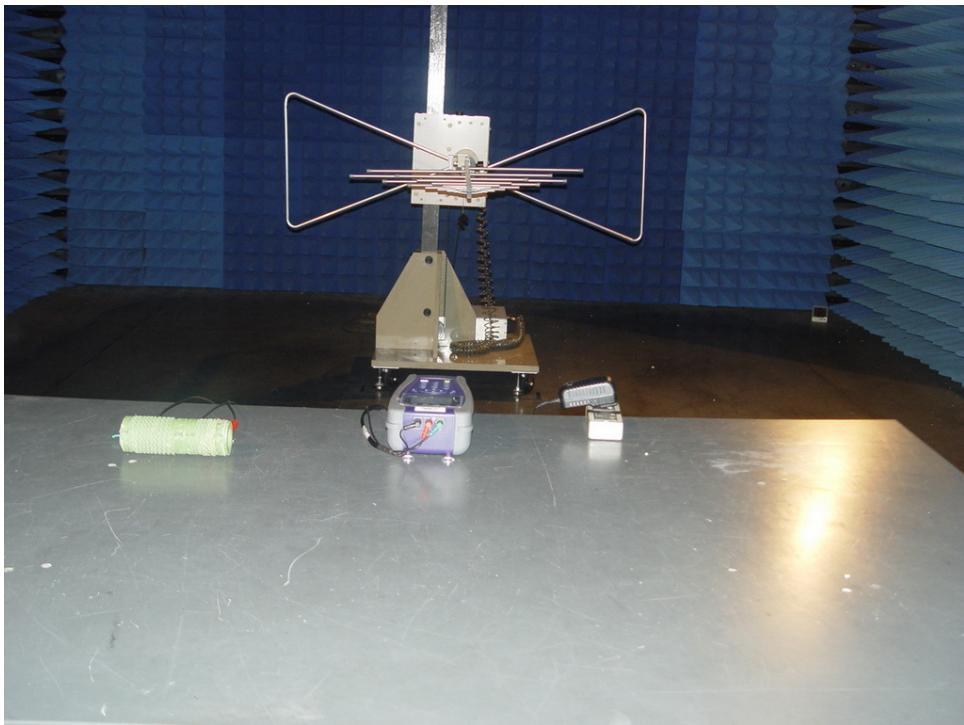
Photograph 2: Set-up for Spurious Emissions (18GHz-26GHz)



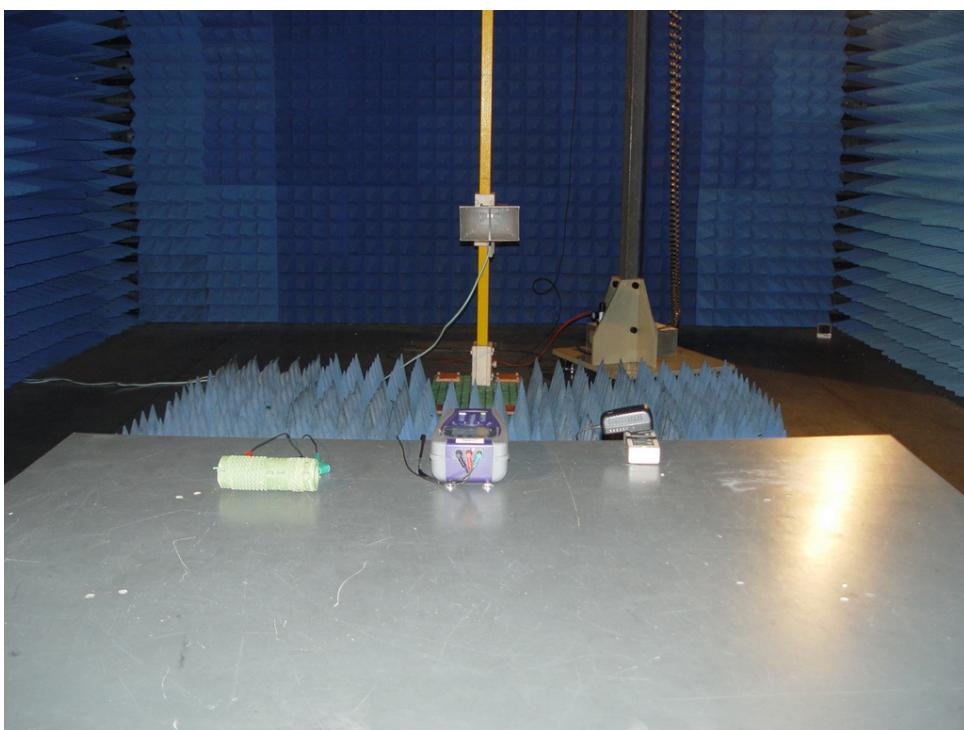
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Photograph 3: Set-up for Radiated emissions, below 1GHz



Photograph 4: Set-up for Radiated emissions, above 1GHz



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Photograph 5: Set-up for Conducted emissions



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Appendix A



Produkte
Products

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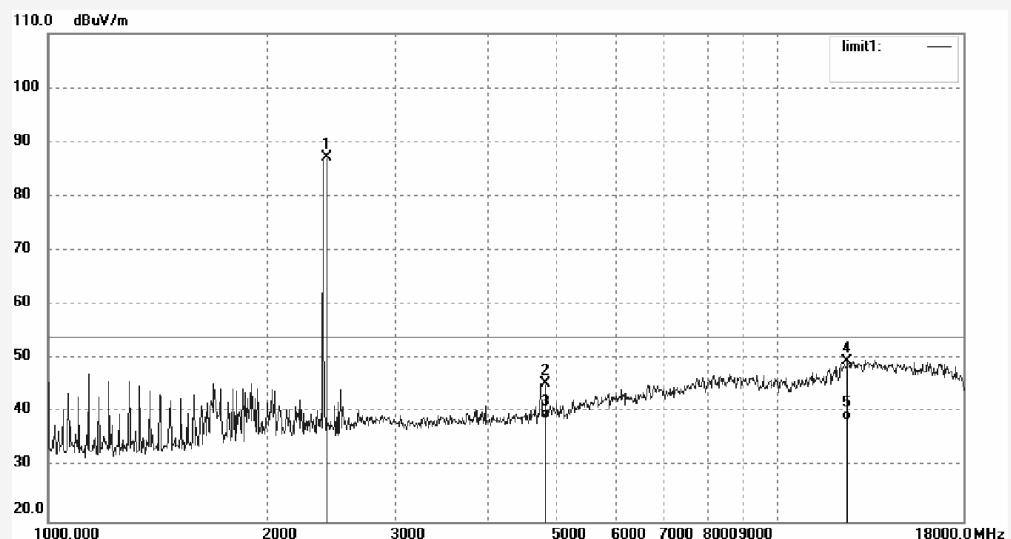
Test Results of Spurious Emissions; model SCTPS-AB-CU, Bluetooth operation**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #881	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	94.51	-7.45	87.06	/	/	peak			
2	4804.016	45.57	-0.30	45.27	74.00	-28.73	peak			
3	4804.016	39.20	-0.30	38.90	54.00	-15.10	AVG			
4	12473.640	11.25	38.37	49.62	74.00	-24.38	peak			
5	12473.640	0.25	38.37	38.62	54.00	-15.38	AVG			

Appendix A



Produkte
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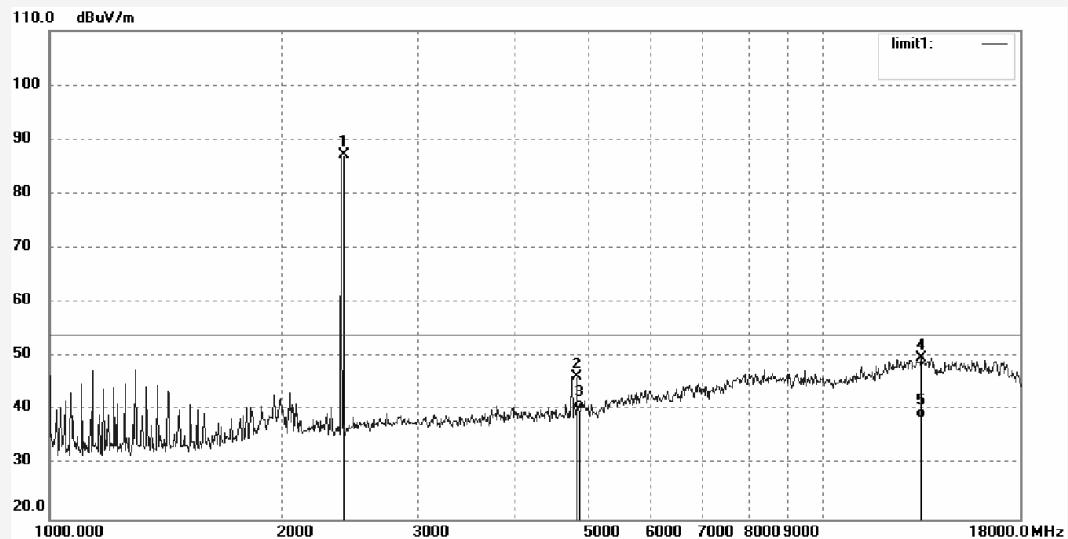
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #882	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	94.62	-7.45	87.17	/	/	peak			
2	4804.020	46.53	-0.30	46.23	74.00	-27.77	peak			
3	4804.020	40.47	-0.30	40.17	54.00	-13.83	AVG			
4	13415.172	10.25	39.50	49.75	74.00	-24.25	peak			
5	13415.172	-1.04	39.50	38.46	54.00	-15.54	AVG			

Appendix A



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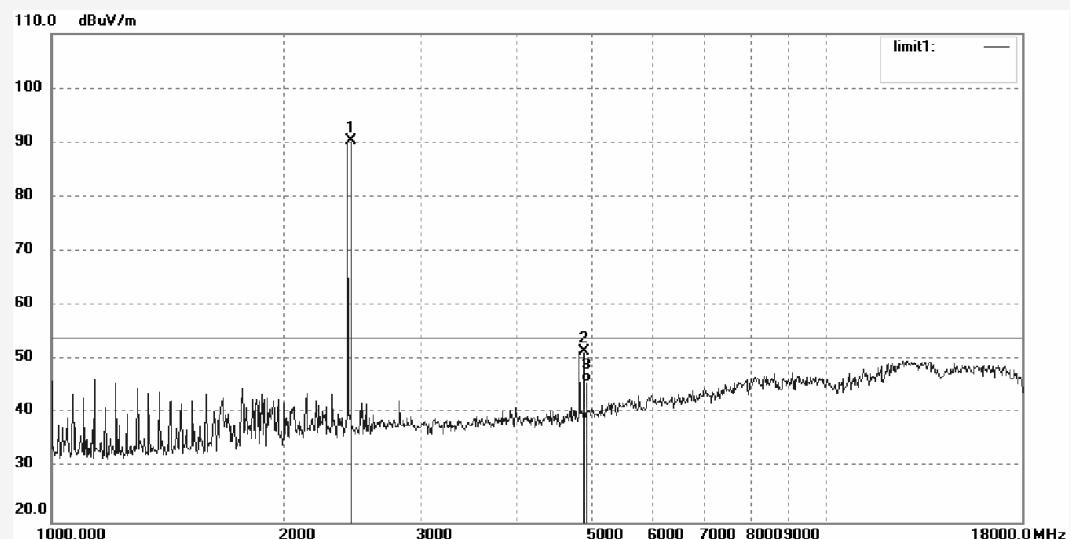
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #885	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	97.75	-7.35	90.40	/	/	peak			
2	4882.020	51.43	0.14	51.57	74.00	-22.43	peak			
3	4882.020	45.55	0.14	45.69	54.00	-8.31	AVG			

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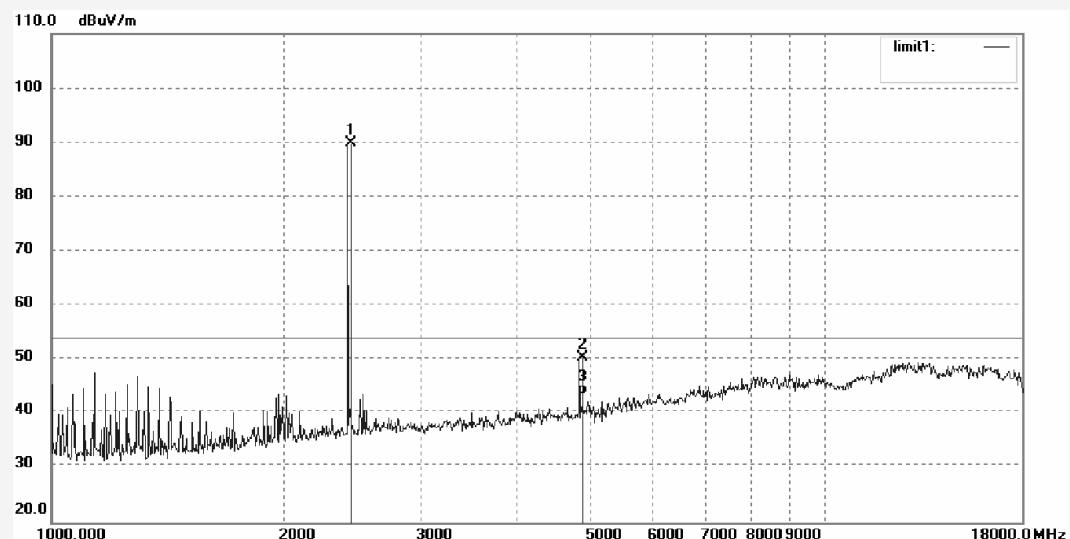
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #886	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	97.20	-7.35	89.85	/	/	peak			
2	4882.024	50.44	0.14	50.58	74.00	-23.42	peak			
3	4882.024	43.36	0.14	43.50	54.00	-10.50	AVG			

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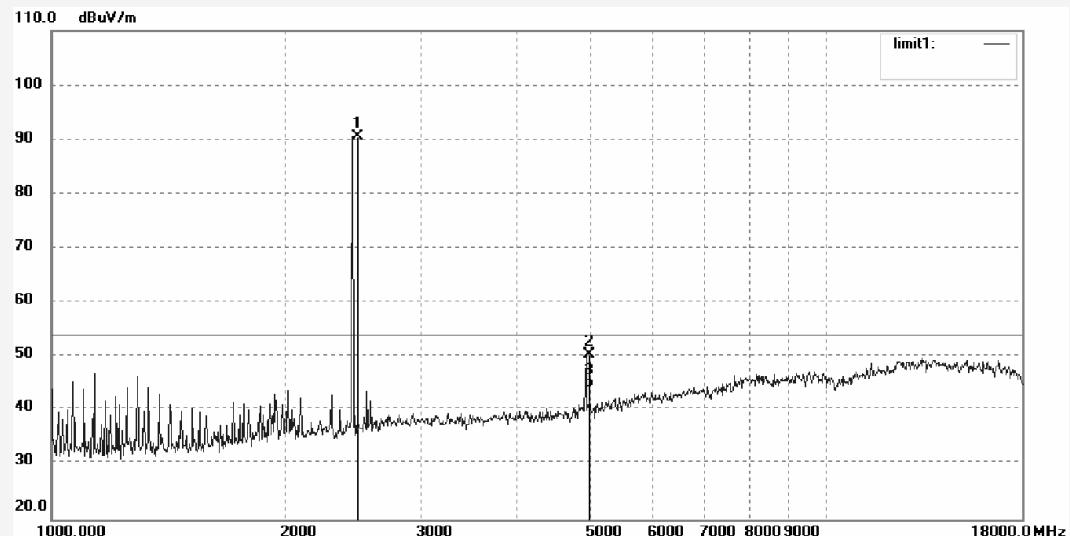
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #887	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	97.91	-7.37	90.54	/	/	peak			
2	4960.018	50.07	0.52	50.59	74.00	-23.41	peak			
3	4960.018	43.78	0.52	44.30	54.00	-9.70	AVG			

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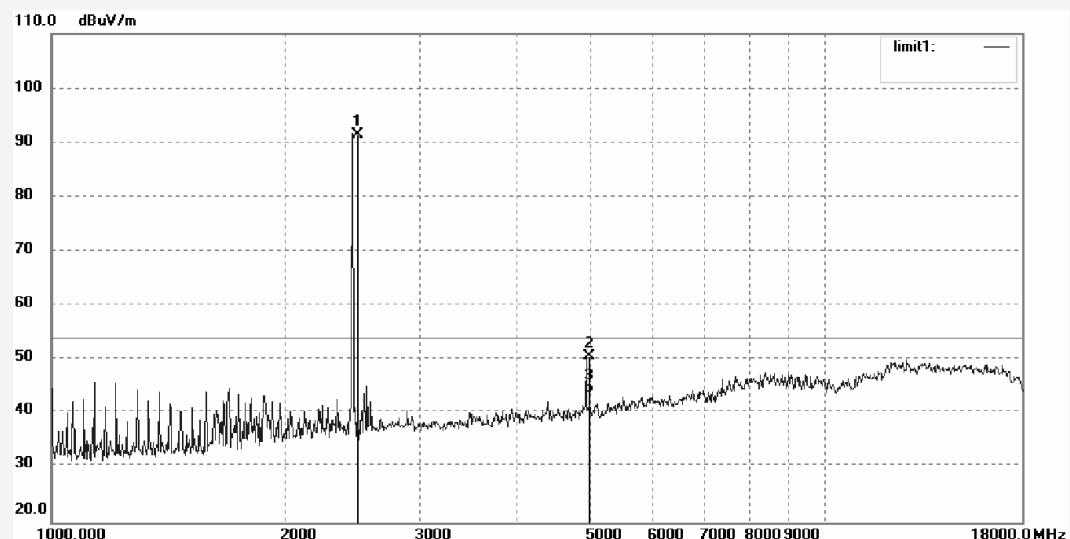
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	PHY #888	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2014/03/30
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	SmartClass TPS	Engineer Signature:	PEI
Mode:	TX 2480MHz	Distance:	3m
Model:	SCTPS-AB-CU		
Manufacturer:	JDSU		
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	98.92	-7.37	91.55	/	/	peak			
2	4960.031	50.19	0.52	50.71	74.00	-23.29	peak			
3	4960.031	43.27	0.52	43.79	54.00	-10.21	AVG			

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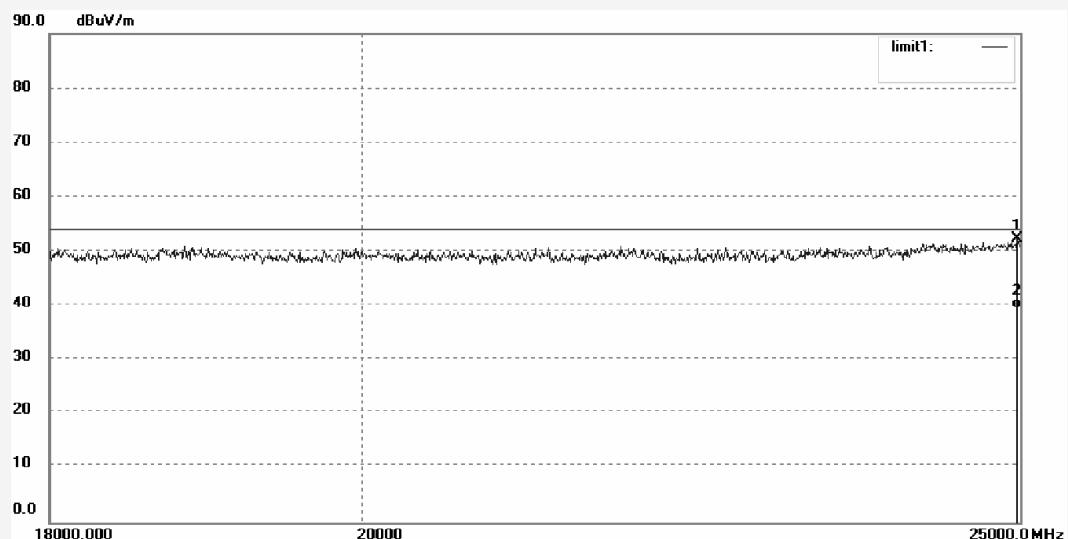
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1083	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/04/09
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	24975.325	33.34	18.87	52.21	74.00	-21.79	peak			
2	24975.325	20.68	18.87	39.55	54.00	-14.45	AVG			

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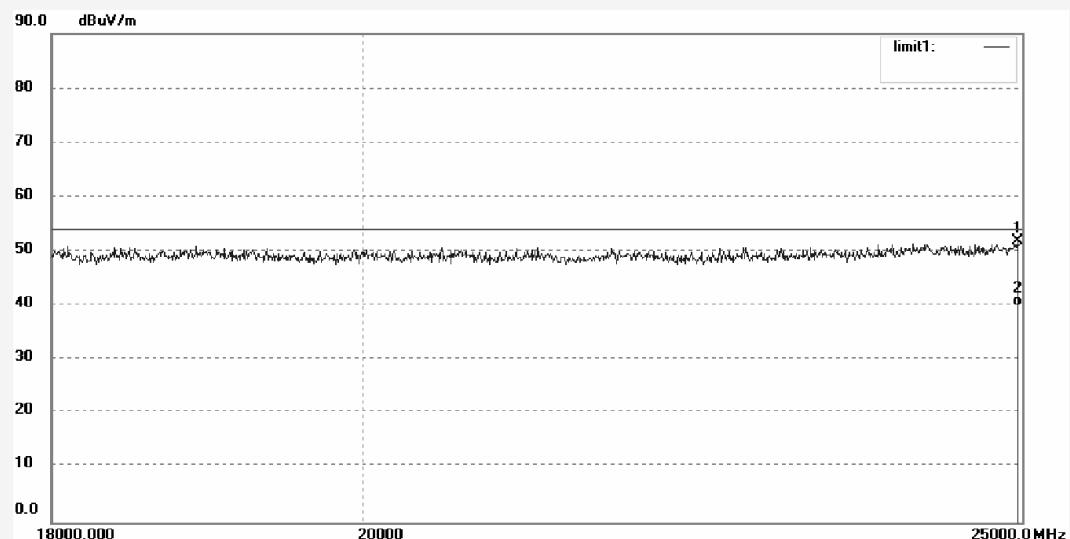
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	PHY #1084	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2014/04/09
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	SmartClass TPS	Engineer Signature:	PEI
Mode:	TX 2402MHz	Distance:	3m
Model:	SCTPS-AB-CU		
Manufacturer:	JDSU		
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	24958.889	33.02	18.84	51.86	74.00	-22.14	peak			
2	24958.889	21.19	18.84	40.03	54.00	-13.97	AVG			

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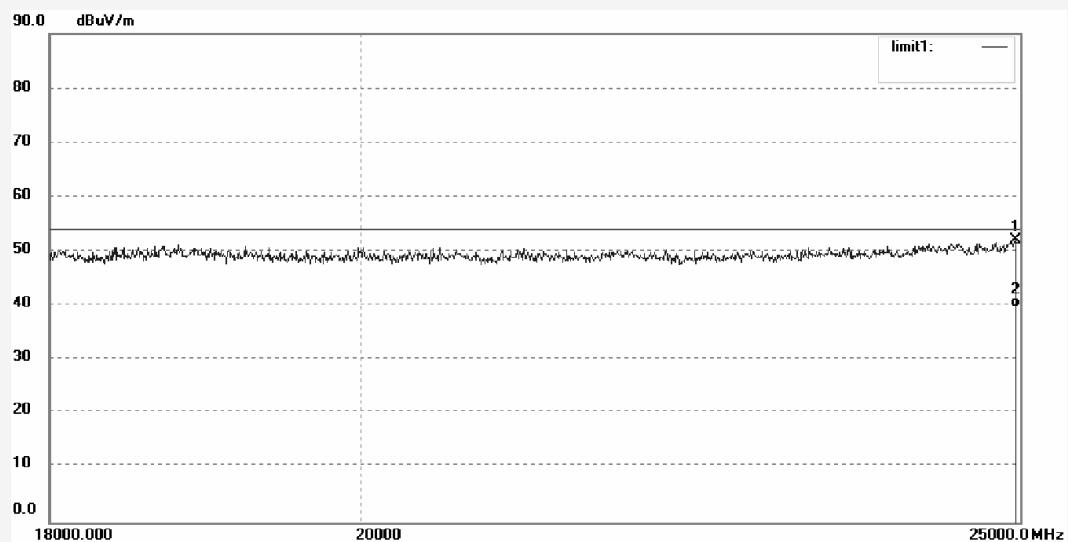
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1085	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/04/09
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	24967.105	33.13	18.85	51.98	74.00	-22.02	peak			
2	24967.105	20.88	18.85	39.73	54.00	-14.27	AVG			

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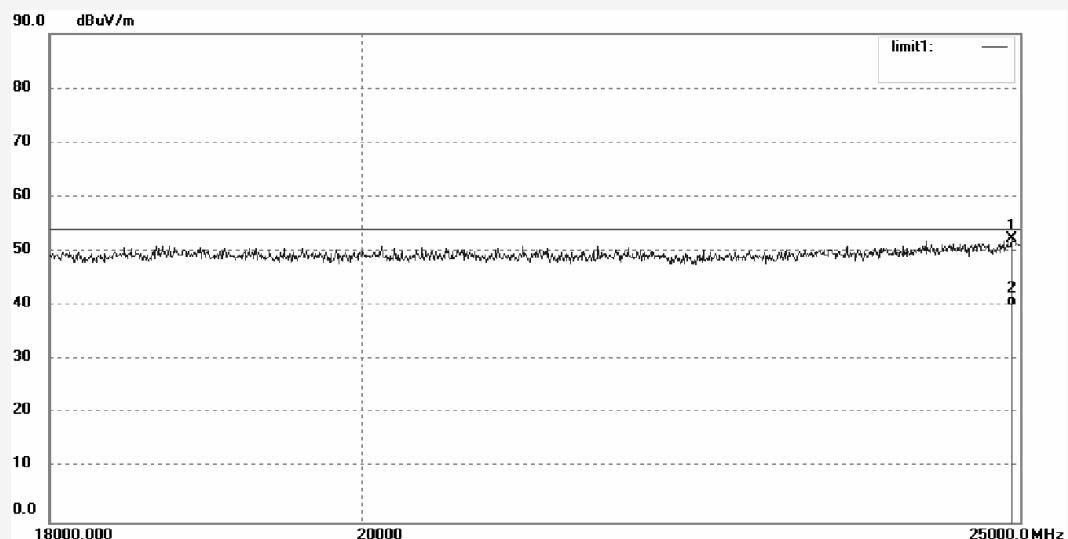
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1086	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/04/09
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2441MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	24926.048	33.44	18.80	52.24	74.00	-21.76	peak			
2	24926.048	21.25	18.80	40.05	54.00	-13.95	AVG			

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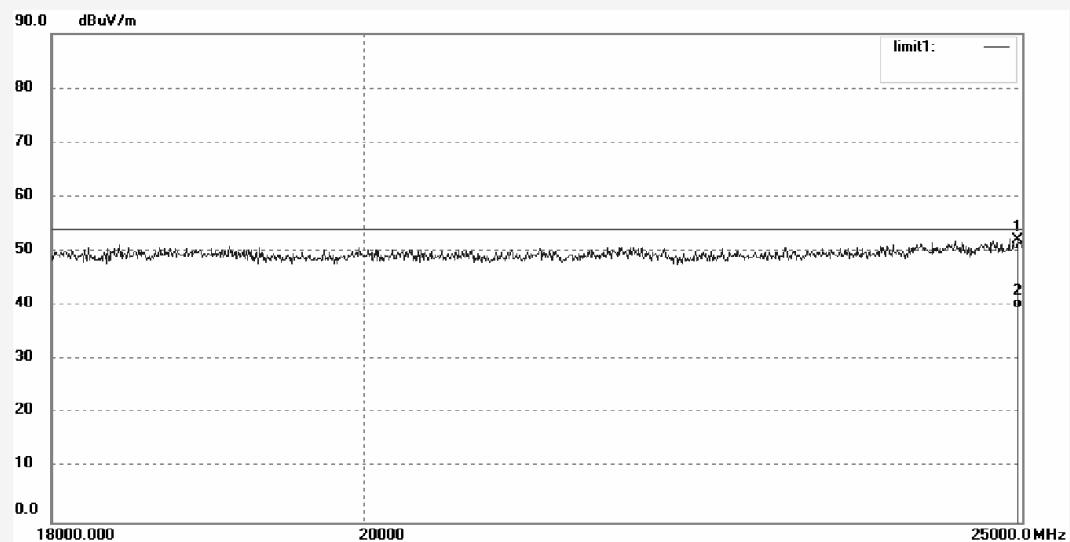
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1087	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/04/09
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	24958.889	33.33	18.84	52.17	74.00	-21.83	peak			
2	24958.889	20.72	18.84	39.56	54.00	-14.44	AVG			

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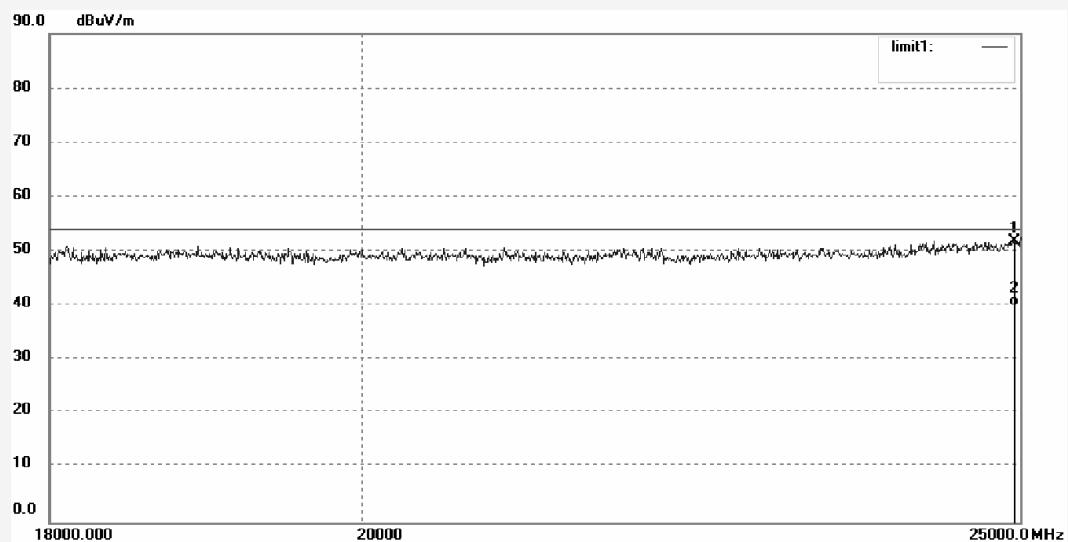
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #1088	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/04/09
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	24950.674	33.07	18.83	51.90	74.00	-22.10	peak			
2	24950.674	21.20	18.83	40.03	54.00	-13.97	AVG			

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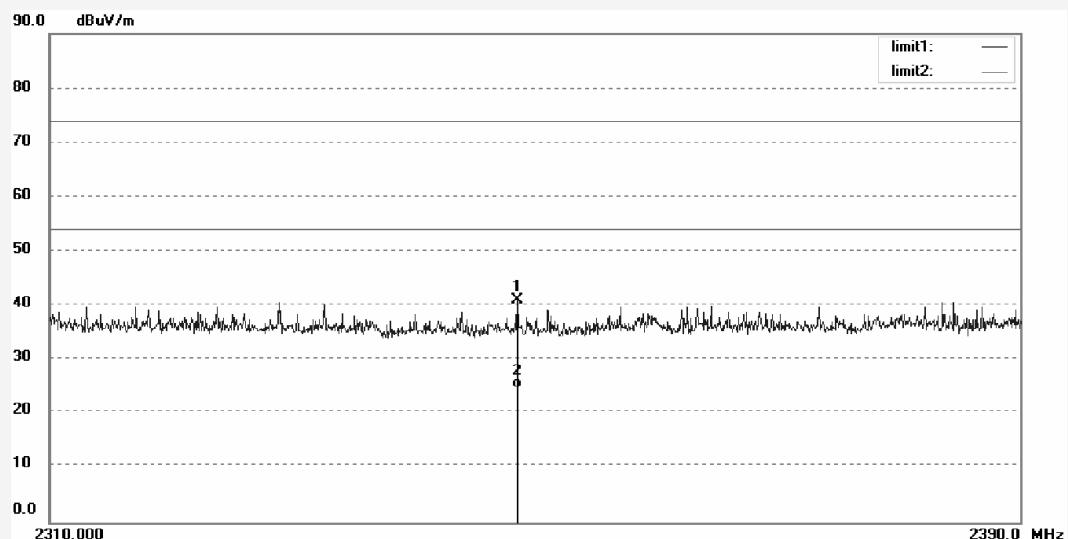
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #883	Polarization: Horizontal
Standard: FCC (BAND EDGE)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	2348.217	48.86	-7.78	41.08	74.00	-32.92	peak			
2	2348.217	32.38	-7.78	24.60	54.00	-29.40	AVG			

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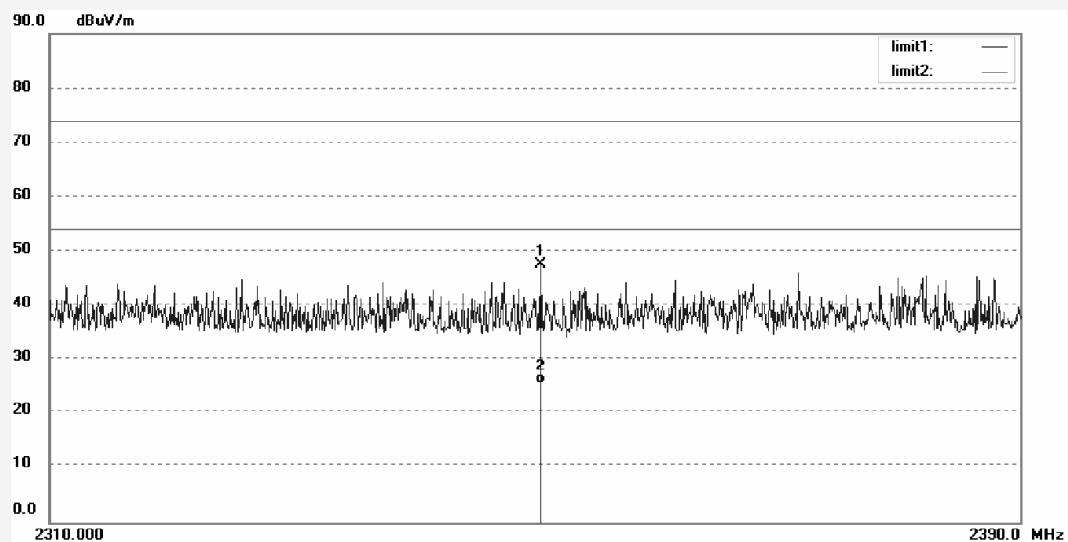
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PHY #884	Polarization: Vertical
Standard: FCC (BAND EDGE)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	2350.140	55.27	-7.79	47.48	74.00	-26.52	peak			
2	2350.140	33.29	-7.79	25.50	54.00	-28.50	AVG			

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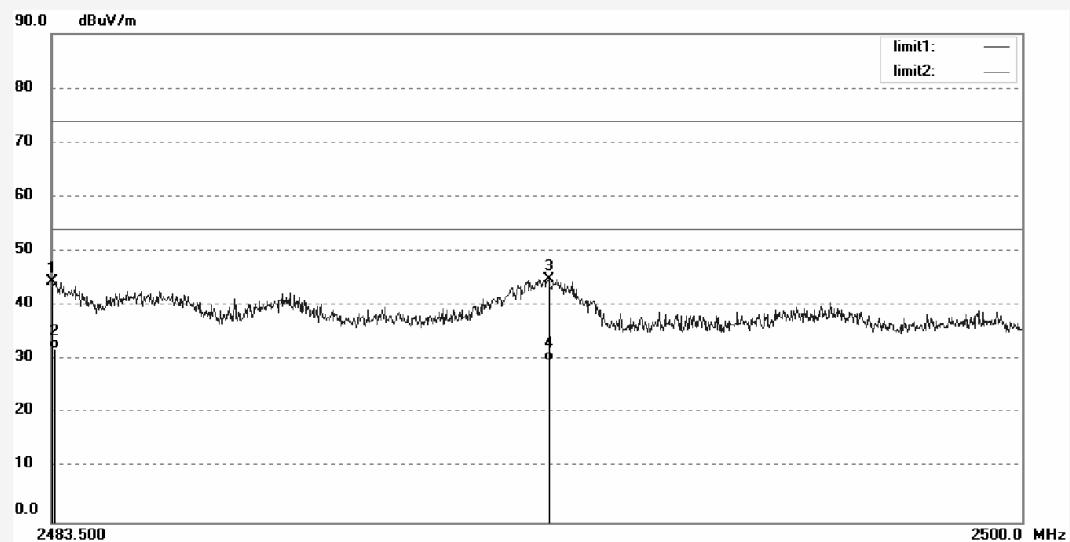
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: PHY #889	Polarization: Vertical
Standard: FCC (BAND EDGE)	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2014/03/30
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2480MHz	Distance: 3m
Model: SCTPS-AB-CU	
Manufacturer: JDSU	
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	51.71	-7.37	44.34	74.00	-29.66	peak			
2	2483.500	39.37	-7.37	32.00	54.00	-22.00	AVG			
3	2491.935	52.21	-7.39	44.82	74.00	-29.18	peak			
4	2491.935	37.29	-7.39	29.90	54.00	-24.10	AVG			



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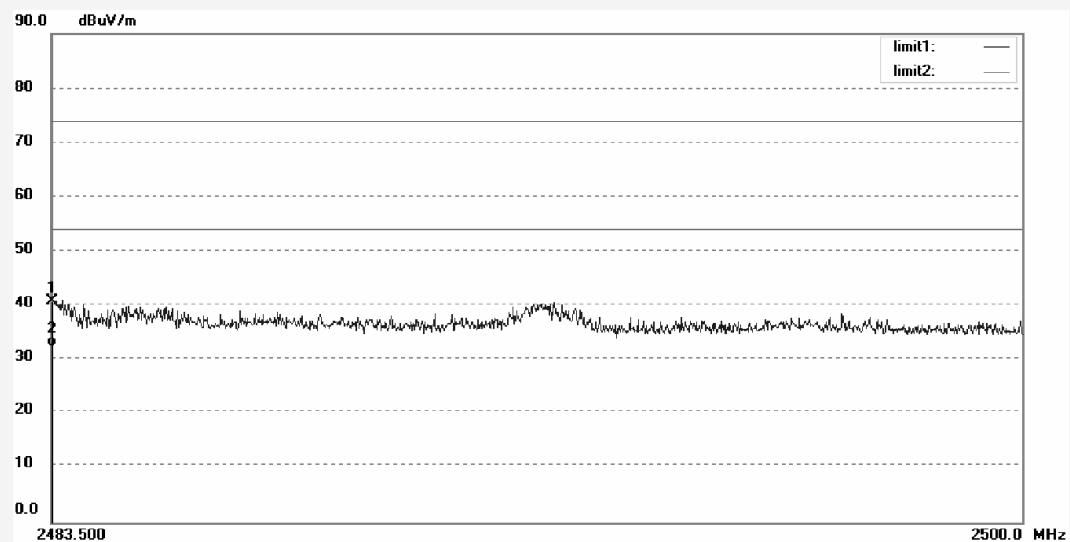
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.:	PHY #890	Polarization:	Horizontal
Standard:	FCC (BAND EDGE)	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2014/03/30
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	SmartClass TPS	Engineer Signature:	PEI
Mode:	TX 2480MHz	Distance:	3m
Model:	SCTPS-AB-CU		
Manufacturer:	JDSU		
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	48.28	-7.37	40.91	74.00	-33.09	peak			
2	2483.500	39.87	-7.37	32.50	54.00	-21.50	AVG			

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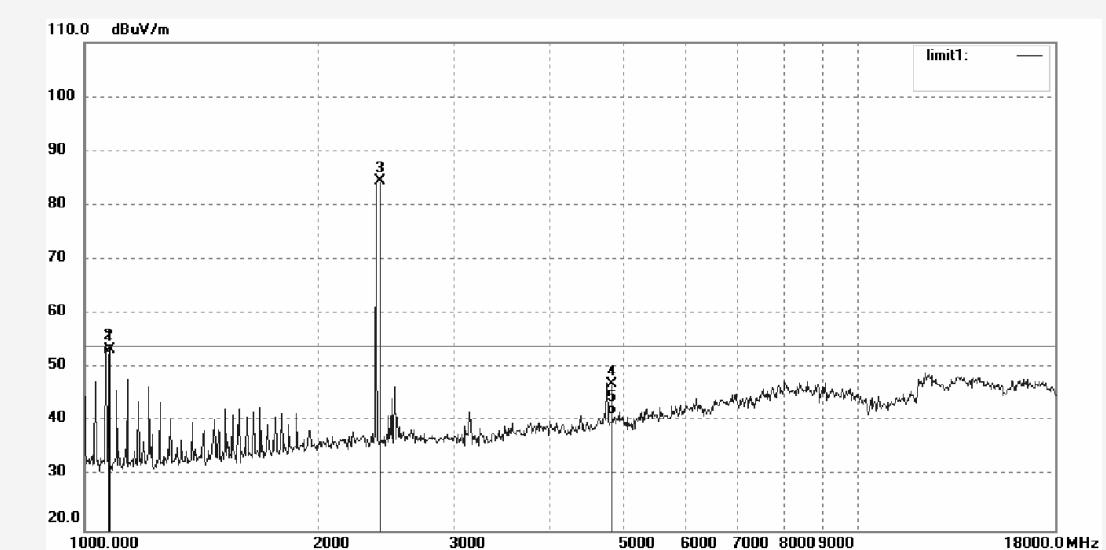
Test Results of Spurious Emissions; model CSC-TPSVW, Bluetooth operation**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: PZ #3	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature:
Mode: TX 2402MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	1080.000	65.95	-12.64	53.31	74.00	-20.69	peak			
2	1080.000	65.35	-12.64	52.71	54.00	-1.29	AVG			
3	2402.000	91.99	-7.45	84.54	/	/	peak			
4	4804.018	47.30	-0.30	47.00	74.00	-27.00	peak			
5	4804.018	41.53	-0.30	41.23	54.00	-12.77	AVG			

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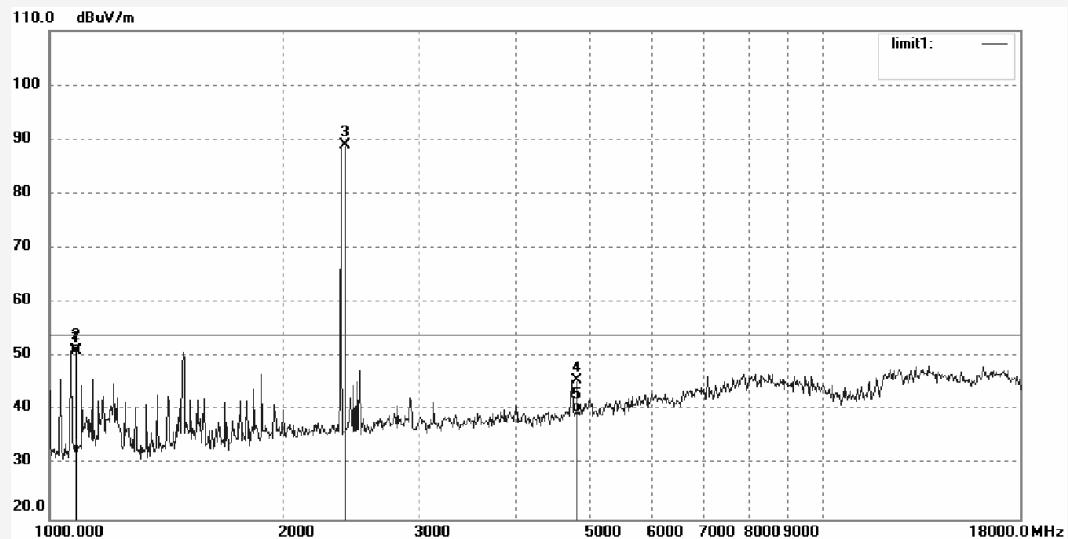
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
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Site: 2# Chamber

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Job No.: PZ #4	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature:
Mode: TX 2402MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	1080.025	63.71	-12.64	51.07	74.00	-22.93	peak			
2	1080.025	63.32	-12.64	50.68	54.00	-3.32	AVG			
3	2402.000	96.32	-7.45	88.87	/	/	peak			
4	4804.020	45.74	-0.30	45.44	74.00	-28.56	peak			
5	4804.020	39.98	-0.30	39.68	54.00	-14.32	AVG			

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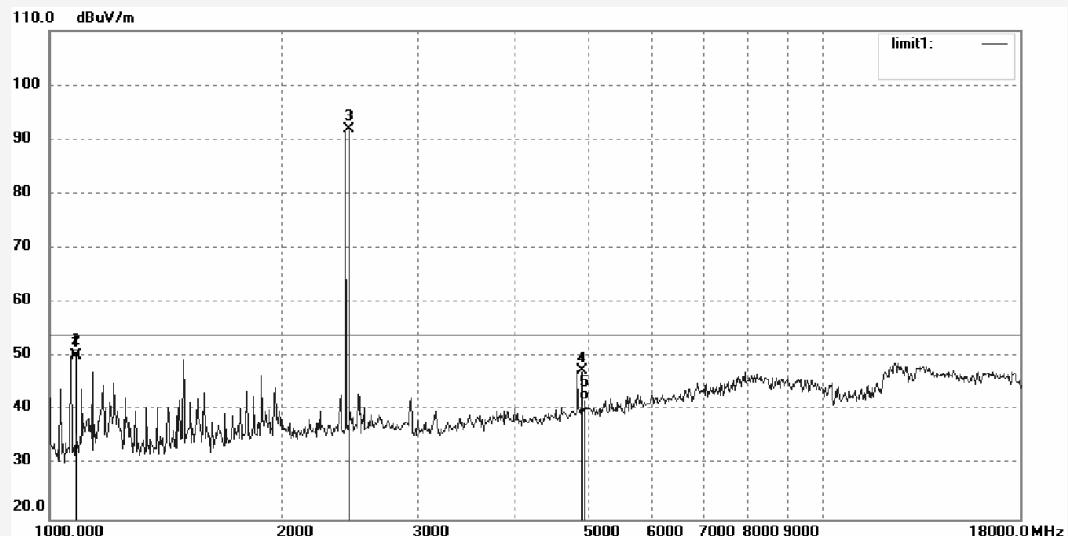
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #5	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature:
Mode: TX 2441MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	1080.075	62.97	-12.64	50.33	74.00	-23.67	peak			
2	1080.075	62.48	-12.64	49.84	54.00	-4.16	AVG			
3	2441.000	99.30	-7.35	91.95	/	/	peak			
4	4882.030	47.20	0.14	47.34	74.00	-26.66	peak			
5	4882.030	41.82	0.14	41.96	54.00	-12.04	AVG			

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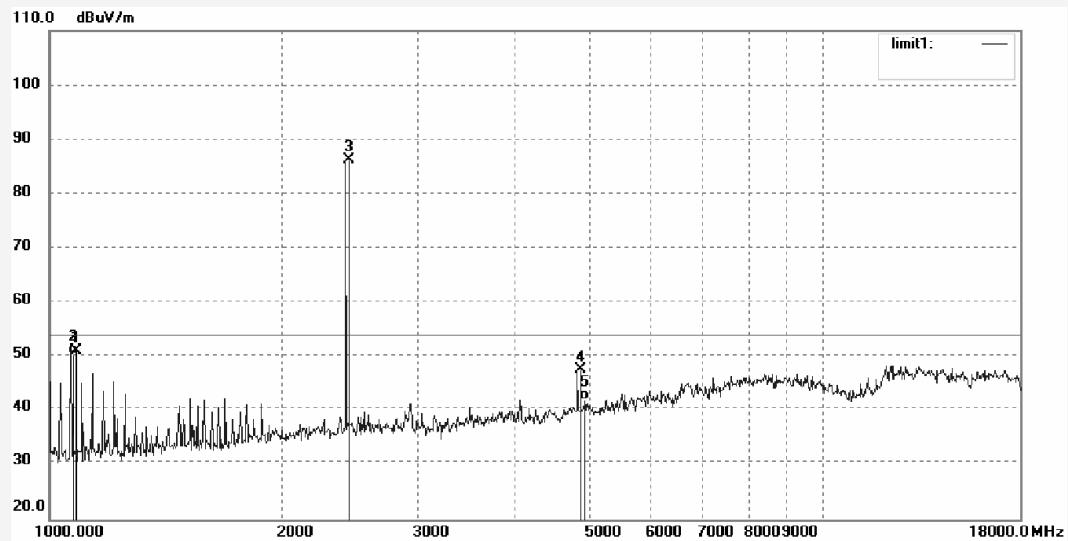
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #6	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature:
Mode: TX 2441MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	1080.053	63.80	-12.64	51.16	74.00	-22.84	peak			
2	1080.053	63.18	-12.64	50.54	54.00	-3.46	AVG			
3	2441.000	93.66	-7.35	86.31	/	/	peak			
4	4880.024	47.37	0.13	47.50	74.00	-26.50	peak			
5	4880.024	41.78	0.13	41.91	54.00	-12.09	AVG			

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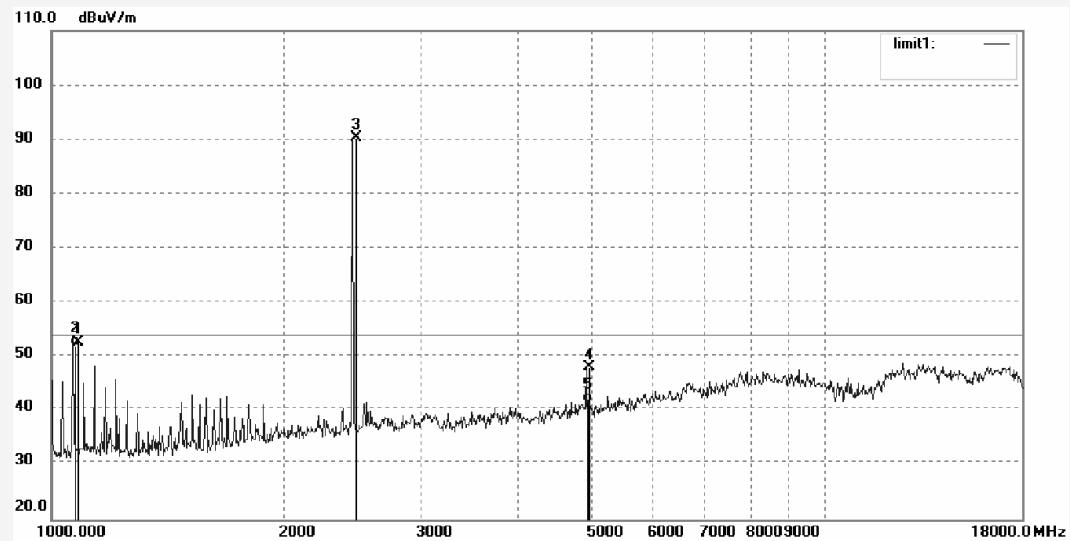
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	PZ #7	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/05/21/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	
EUT:	SmartClass TPS	Engineer Signature:	
Mode:	TX 2480MHz	Distance:	
Model:	CSC-TPSVW		
Manufacturer:	JDSU		
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	1080.031	65.31	-12.64	52.67	74.00	-21.33	peak			
2	1080.031	64.70	-12.64	52.06	54.00	-1.94	AVG			
3	2480.000	97.71	-7.37	90.34	/	/	peak			
4	4960.044	47.55	0.52	48.07	74.00	-25.93	peak			
5	4960.044	41.05	0.52	41.57	54.00	-12.43	AVG			

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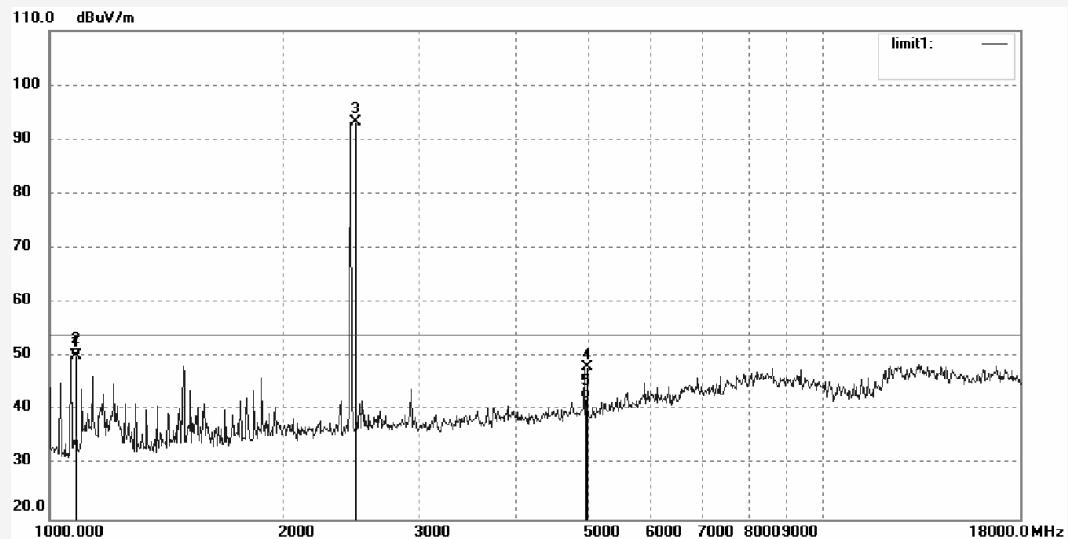
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #8	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/21/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature:
Mode: TX 2480MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	1080.068	62.96	-12.64	50.32	74.00	-23.68	peak			
2	1080.068	62.59	-12.64	49.95	54.00	-4.05	AVG			
3	2480.000	100.57	-7.37	93.20	/	/	peak			
4	4960.036	47.42	0.52	47.94	74.00	-26.06	peak			
5	4960.036	41.68	0.52	42.20	54.00	-11.80	AVG			

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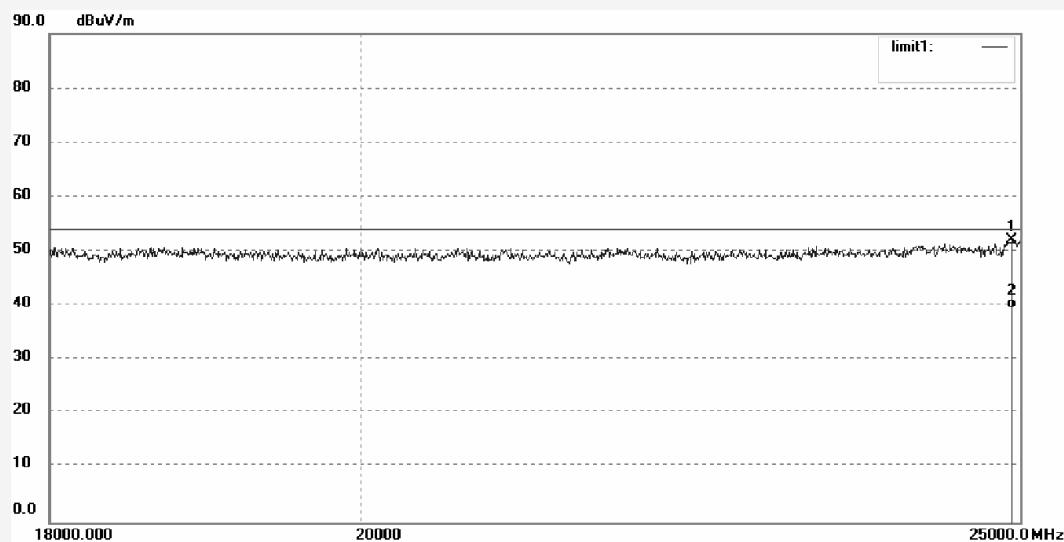
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #103	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/22/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	24934.254	33.27	18.81	52.08	74.00	-21.92	peak			
2	24934.254	20.63	18.81	39.44	54.00	-14.56	AVG			

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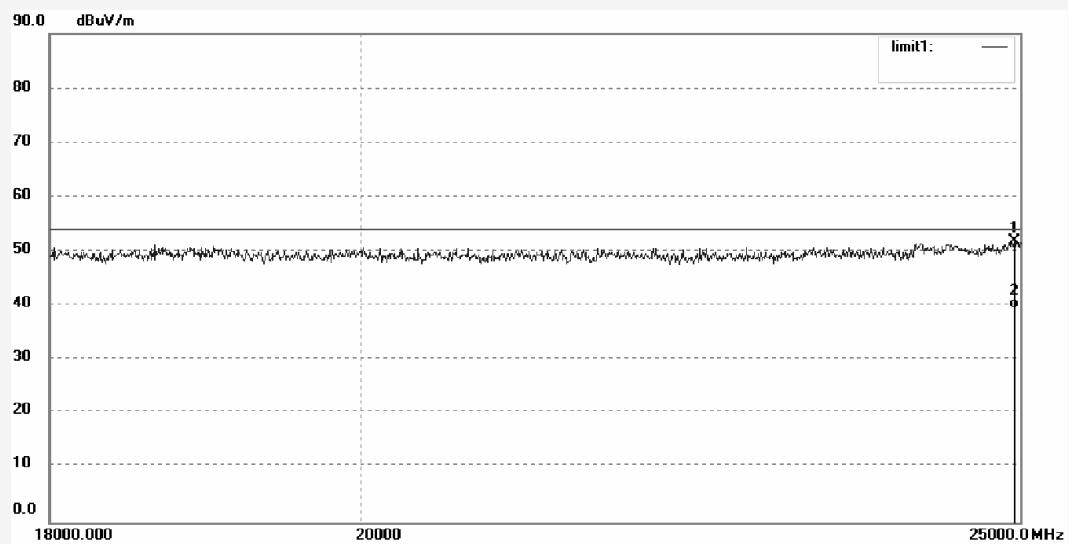
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #104	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/22/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2402MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
Note: Bluetooth	



No.	Freq. (MHz)	Reading (dBrV/m)	Factor (dB)	Result (dBrV/m)	Limit (dBrV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24950.674	33.10	18.83	51.93	74.00	-22.07	peak			
2	24950.674	20.59	18.83	39.42	54.00	-14.58	AVG			

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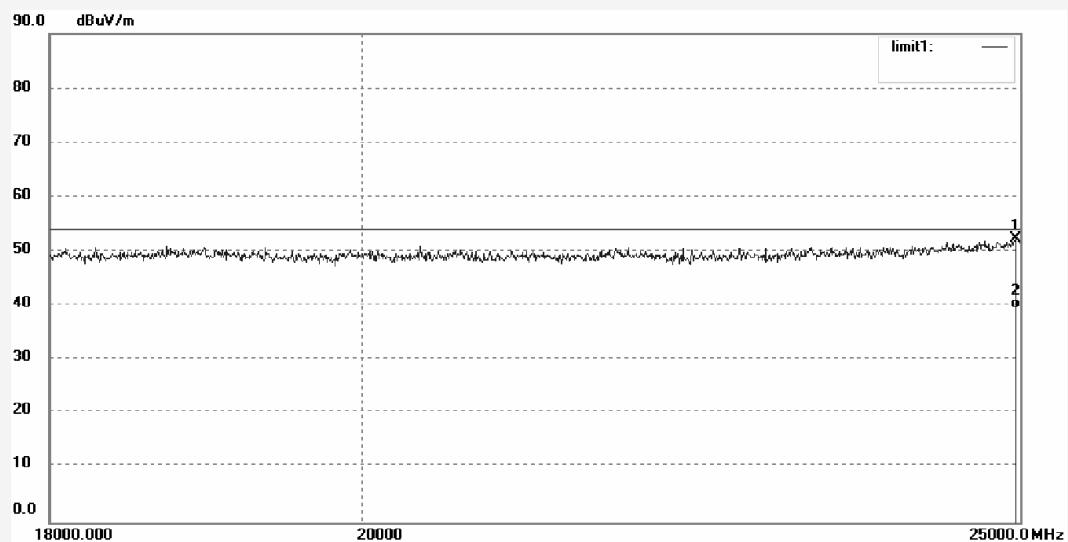
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #105	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/22/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2441MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	24958.889	33.58	18.84	52.42	74.00	-21.58	peak			
2	24958.889	20.76	18.84	39.60	54.00	-14.40	AVG			

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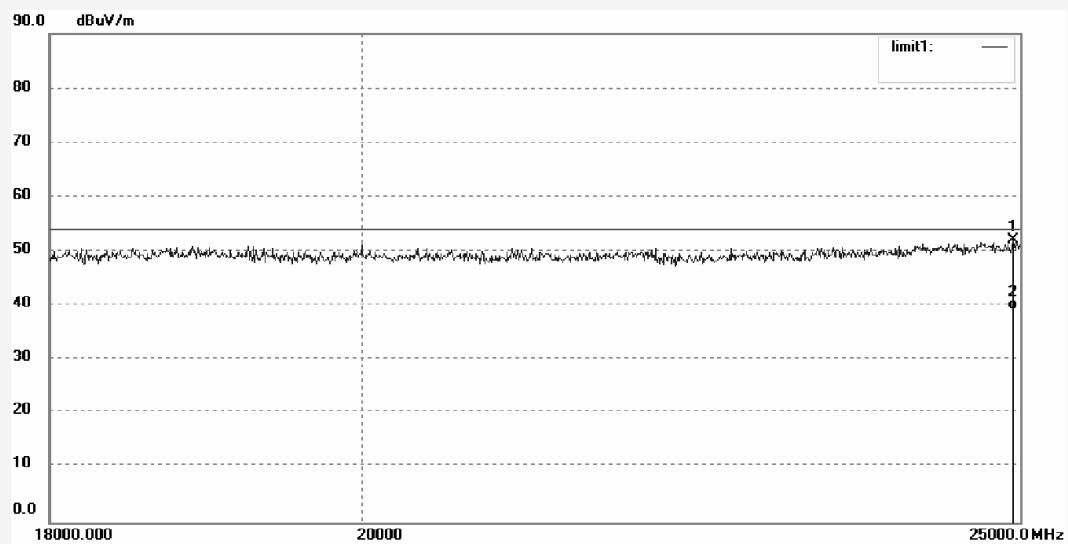
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #106	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/22/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2441MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	24942.463	33.19	18.82	52.01	74.00	-21.99	peak			
2	24942.463	20.42	18.82	39.24	54.00	-14.76	AVG			

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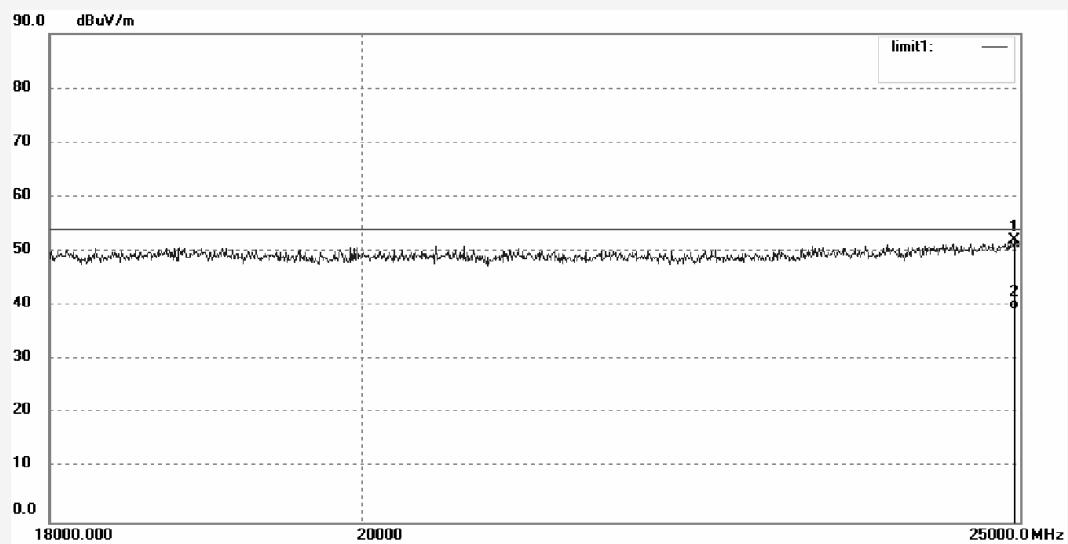
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #107	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/22/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2480MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	24950.674	33.17	18.83	52.00	74.00	-22.00	peak			
2	24950.674	20.47	18.83	39.30	54.00	-14.70	AVG			

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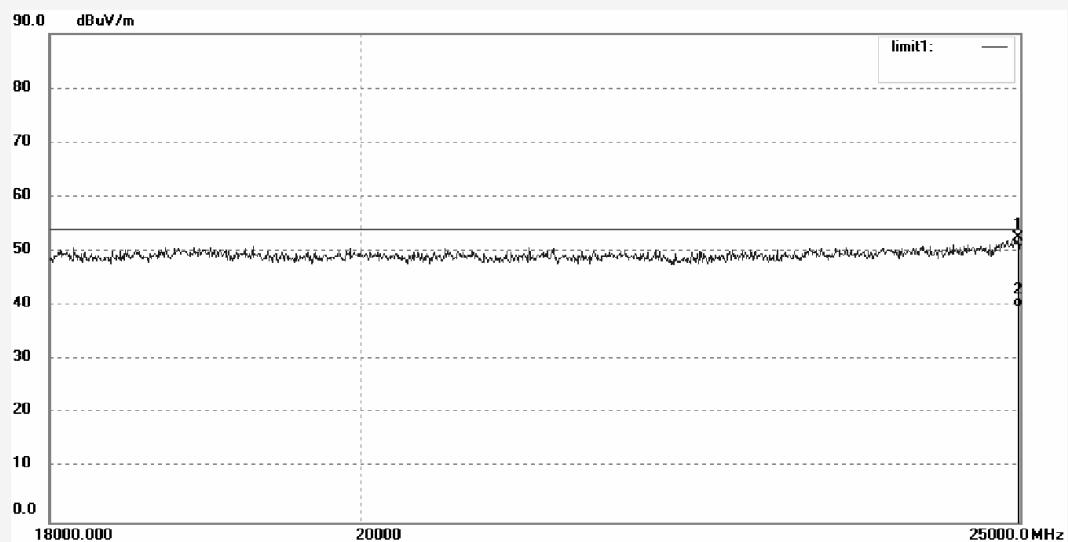
**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PZ #108	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/05/22/
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: SmartClass TPS	Engineer Signature: PEI
Mode: TX 2480MHz	Distance:
Model: CSC-TPSVW	
Manufacturer: JDSU	
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	24983.547	33.56	18.88	52.44	74.00	-21.56	peak			
2	24983.547	20.79	18.88	39.67	54.00	-14.33	AVG			