

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2

CERTIFICATION TEST REPORT

For

Bluetooth Headset

MODEL NUMBER: JR310BT

FCC ID: APIJBLJR310BT

IC: 6132A-JBLJR310BT

REPORT NUMBER: 4789485754-5

ISSUE DATE: June 01, 2020

Prepared for

HARMAN INTERNATIONAL INDUSTRIES INC 8500 Balboa Blvd Nothridge CA 91329,UNITED STATES

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/01/2020	Initial Issue	



Summary of Test Results				
Clause	Test Items	FCC/ISED Rules	Test Results	
1	20dB Bandwidth and 99% Occupied Bandwidth	FCC 15.247 (a) (1) RSS-247 Clause 5.1 (a) RSS-Gen Clause 6.7	Pass	
2	Conducted Output Power	FCC 15.247 (b) (1) RSS-247 Clause 5.1 (b)	Pass	
3	Carrier Hopping Channel Separation	FCC 15.247 (a) (1) RSS-247 Clause 5.1 (b)	Pass	
4	Number of Hopping Frequency	15.247 (a) (1) III RSS-247 Clause 5.1 (d)	Pass	
5	Time of Occupancy (Dwell Time)	15.247 (a) (1) III RSS-247 Clause 5.1 (d)	Pass	
6	Conducted Bandedge	FCC 15.247 (d) RSS-247 Clause 5.5	Pass	
7	Radiated Bandedge and Spurious	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass	
8	Conducted Emission Test For AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	Pass	
9	Antenna Requirement	FCC 15.203 RSS-GEN Clause 6.8	Pass	

Note:

1. This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	HARMAN INTERNATIONAL INDUSTRIES INC
Address:	8500 Balboa Blvd Nothridge CA 91329, UNITED STATES
Manufacturer Information	
Company Name:	HARMAN INTERNATIONAL INDUSTRIES INC
Address:	8500 Balboa Blvd Nothridge CA 91329, UNITED STATES

EUT Description

EUT Name:	Bluetooth Headset
Model:	JR310BT
Brand:	JBL
Sample Received Date:	May 20, 2020
Sample Status:	Normal
Sample ID:	3072495
Date of Tested:	May 20~29, 2020

APPLICABLE STANDARDS		
STANDARD	TEST RESULTS	
CFR 47 FCC PART 15 SUBPART C	PASS	
ISED RSS-247 Issue 2	PASS	
ISED RSS-GEN Issue 5	PASS	

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part2, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	 A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004
	Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note:

- 1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.
- The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty	
Conduction emission	3.62dB	
Radiation Emission test(include Fundamental emission) (9kHz-30MHz)	2.2dB	
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.00dB	
Radiation Emission test	5.78dB (1GHz-18GHz)	
(1GHz to 26GHz)(include Fundamental emission)	5.23dB (18GHz-26GHz)	
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Bluetooth Headset		
Model	JR310BT		
	Operation Frequency	2402 MHz ~ 2480 MHz	
	Modulation Type	Data Rate	
Product Description (Bluetooth)	GFSK	1Mbps	
Blactoothy	∏/4-DQPSK	2Mbps	
	8DPSK	3Mbps	
Bluetooth Version	V5.0 BR+EDR		
Input Rating: 5.0 V DC, 1.0 A			
Battery	3.7V, 400mAh		

5.2. MAXIMUM OUTPUT POWER

Bluetooth Mode	Frequency (MHz)	Channel Number	Max PEAK Output Power (dBm)	EIRP (dBm)
GFSK	2402-2480	0-78[79]	0.18	3.50
8DPSK	2402-2480	0-78[79]	0.21	3.53

5.3. PACKET TYPE CONFIGURATION

Bluetooth Mode	Test Mode	Setting(Packet Length)
	DH1	27
GFSK	DH3	183
	DH5	339
	2-DH1	54
∏/4-DQPSK	2-DH3	367
	2-DH5	679
	3-DH1	83
8DPSK	3-DH3	552
	3-DH5	1021



5.4. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/

5.5. TEST CHANNEL CONFIGURATION

Modulation Type	Test Channel	Frequency
GFSK	CH0, CH39, CH78/	2402MHz, 2441MHz, 2480MHz
	Low, Middle, High	
GFSK-Hopping mode	/	2402~2480MHz
8DPSK	CH0, CH39, CH78/ Low, Middle, High	2402MHz, 2441MHz, 2480MHz
8DPSK - Hopping mode	/	2402~2480MHz



5.6. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band					
Test Se	oftware	Non Signaling Test Tool			
Modulation Type	Transmit Antenna	Test Software setting value			
	Number	CH 0	CH 39	CH 78	
GFSK	1	1	1	1	
8DPSK	1	1 1 1			



5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PCB Antenna	3.32

Note: The value of the antenna gain was declared by customer.

5.8. WORST-CASE CONFIGURATIONS

Bluetooth Mode	Modulation Technology	Modulation Type	Data Rate (Mbps)
BR	FHSS	GFSK(DH5)	1Mbit/s
EDR	FHSS	8DPSK(3DH5)	3Mbit/s

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

5.9. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests				
Relative Humidity	45 ~ 70%				
Atmospheric Pressure:	101kPa				
Temperature	TN	22 ~ 28 °C			
	VL	N/A			
Voltage:	VN	DC 3.7V			
	VH	N/A			

Note: VL= Lower Extreme Test Voltage VN= Nominal Voltage.

VH= Upper Extreme Test Voltage

TN= Normal Temperature



5.10. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	Lenovo	TP00094A	/
2	UART	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	TYPE C	/	1.0	/

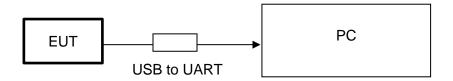
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT can work in an engineer mode with software through a PC.

SETUP DIAGRAM FOR TESTS



6. MEASURING INSTRUMENT AND SOFTWARE USED

	Conducted Emissions							
			Instru	iment				
Used	Equipment	Manufacturer	Mod	lel No.	Seria	al No.	Last Cal.	Next Cal.
\checkmark	EMI Test Receiver	R&S	E	SR3	101	961	Dec.05,2019	Dec.05,2020
V	Two-Line V- Network	R&S	EN	V216	101	983	Dec.05,2019	Dec.05,2020
V	Artificial Mains Networks	Schwarzbeck	NSLI	K 8126	8126	6465	Dec.05,2019	Dec.05,2020
	Software							
Used	Des	cription		Manu	ufactu	rer	Name	Version
\checkmark	Test Software for C	Conducted distu	rbance	e F	arad		EZ-EMC	Ver. UL-3A1
		Rad	iated I	Emissio	ns			
			Instru	iment				
Used	Equipment	Manufacturer	Mod	lel No.	Seria	al No.	Last Cal.	Next Cal.
V	MXE EMI Receiver	KESIGHT	N9	N9038A		6400 36	Dec.06,2019	Dec.06,2020
V	Hybrid Log Periodic Antenna	TDK	HLP-3003C		130	960	Sep.17, 2018	Sep.17, 2021
V	Preamplifier	HP	8447D			A090 9	Dec.05,2019	Dec.05,2020
V	EMI Measurement Receiver	R&S	ESR26		101	377	Dec.05,2019	Dec.05,2020
\checkmark	Horn Antenna	TDK	HRN	I-0118	130	939	Sep.17, 2018	Sep.17, 2021
V	High Gain Horn Antenna	Schwarzbeck	BBH	A-9170	69	91	Aug.11, 2018	Aug.11, 2021
V	Preamplifier	TDK	PA-0	2-0118	000	-305- 066	Dec.05,2019	Dec.05,2020
\checkmark	Preamplifier	TDK	PA	-02-2		-307- 003	Dec.05,2019	Dec.05,2020
\checkmark	Loop antenna	Schwarzbeck	15	19B	000	800	Jan.07, 2019	Jan.07, 2022
V	Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS		4	4	Dec.05,2019	Dec.05,2020
V	High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS		2	23	Dec.05,2019	Dec.05,2020
			Soft	ware				
Used	Descr	iption	Ν	lanufact	turer		Name	Version
\checkmark	Test Software for Ra	adiated disturba	ince	Farac	k		EZ-EMC	Ver. UL-3A1

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	Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.		
\checkmark	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec.06,2019	Dec.06,2020		
\checkmark	Power Meter	Keysight	N1911A	MY55416024	Dec.06,2019	Dec.06,2020		
\checkmark	Power Sensor	Keysight	U2021XA	MY5100022	Dec.06,2019	Dec.06,2020		



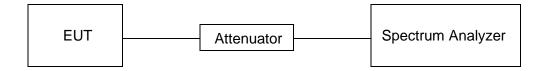
7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

<u>LIMITS</u>

None; for reporting purposes only

TEST SETUP



TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

RESULTS

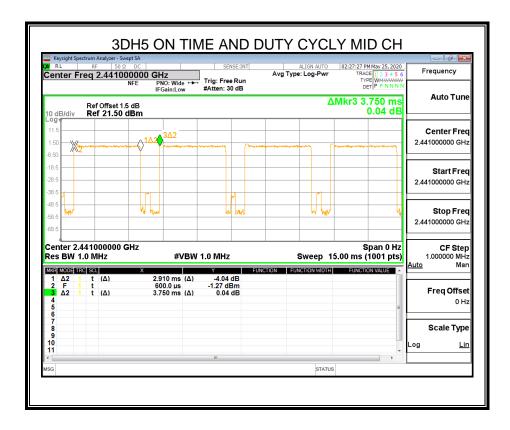
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
GFSK	2.910	3.750	0.776	77.6%	1.10	0.34	0.5
8DPSK	2.910	3.750	0.776	77.6%	1.10	0.34	0.5

Note:

Duty Cycle Correction Factor=10log (1/x). Where: x is Duty Cycle (Linear) Where: T is On Time If that calculated VBW is not available on the analyzer then the next higher value should be used.



Center Freq 2	50 Ω DC .441000000 GHz NFE PNO: Wide ↔ IFGain:Low	SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr	02:26:08 PM May 25, 2020 TRACE 1 2 3 4 5 6 TYPE DET P P N N N N	Frequency
0 dB/div Ref	Offset 1.5 dB 21.50 dBm		ΔΝ	/kr3 3.750 ms -0.03 dB	Auto Tun
11.5 1.50 8.50	<u>1∆2</u> 3∆2				Center Fre 2.441000000 GH
28.5					Start Fre 2.441000000 GH
48.5 58.5 68.5		VI WYY	γ h.1		Stop Fre 2.441000000 GH
enter 2.44100 tes BW 1.0 MH	Hz #VBI	№ 1.0 MHz	•	Span 0 Hz 00 ms (1001 pts)	CF Ste 1.000000 MH Auto Ma
$\begin{array}{c cccc} \text{MKR} & \text{MODE} & \text{TRC} & \text{SCL} \\ 1 & \Delta 2 & 1 & t \\ 2 & F & 1 & t \\ 3 & \Delta 2 & 1 & t \\ 4 & & & \\ 5 & & \\ 6 & & & \end{array}$	525.0 µs	-1.47 dB -2.69 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offse 0 H
7 8 9 10				1	Scale Typ
9 10 11				L	_og



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7.2. 20dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1) RSS-247 Clause 5.1 (a)	20dB Occupied Bandwidth	/	2400-2483.5
ISED RSS-Gen Clause 6.7	99% Occupied Bandwidth	/	2400-2483.5

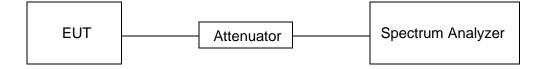
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 20dB:Occupied Bandwidth:1% to 5% of the 20 dB bandwidth For 99%:Occupied Bandwidth: 1% to 5% of the occupied bandwidth
VBW	For 20dB Occupied Bandwidth: approximately 3×RBW For 99% Occupied Bandwidth: ≥ 3×RBW
Span	For 20dB: between 2 times and 5 times the OBW. For 99dB: between 1.5 times and 5.0 times the OBW.
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB and 99% relative to the maximum level measured in the fundamental emission.

TEST SETUP





TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

RESULTS

Please refer to Appendix A and B.



7.3. CONDUCTED OUTPUT POWER

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247) , Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (b) (1) ISED RSS-247 Clause 5.4 (b)	Peak Conducted Output Power	 Hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel : 1 watt or 30dBm; Hopping channel carrier frequencies that are separated by 25 kHz or two- thirds of the 20 dB bandwidth of the hopping channel : 125 mW or 21dBm 	2400-2483.5

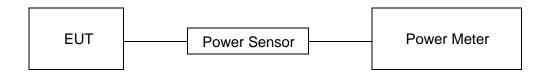
TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power of each channel.

TEST SETUP





TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

RESULTS

Please refer to Appendix C.



7.4. CARRIER HOPPING CHANNEL SEPARATION

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247) , Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1) ISED RSS-247 Clause 5.1 (b)	Carrier Hopping Channel Separation	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.	2400-2483.5

TEST PROCEDURE

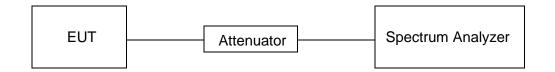
Connect the UUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Span	wide enough to capture the peaks of two adjacent channels
Detector	Peak
RBW	Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
VBW	≥RBW
Trace	Max hold
Sweep time	Auto couple

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

TEST SETUP





TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

RESULTS

Please refer to Appendix D.



7.5. NUMBER OF HOPPING FREQUENCY

<u>LIMITS</u>

CFR 47 FCC Part15 (15.247) , Subpart C ISED RSS-247 ISSUE 2			
Section Test Item		Limit	
CFR 47 15.247 (a) (1) III ISED RSS-247 Clause 5.1 (d)	Number of Hopping Frequency	at least 15 hopping channels	

TEST PROCEDURE

Connect the EUT to the spectrum Analyzer and use the following settings:

Detector	Peak
RBW	To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW	≥RBW
Span	The frequency band of operation
Trace	Max hold
Sweep time	Auto couple

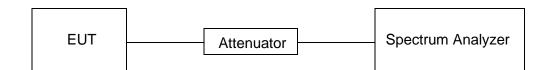
Set EUT to transmit maximum output power and switch on frequency hopping function. then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer.

Count the quantity of peaks to get the number of hopping channels.

FHSS Mode: 79 Channels observed.

AFHSS Mode: 20 Channels declared.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V



Please refer to Appendix F



7.6. TIME OF OCCUPANCY (DWELL TIME)

<u>LIMITS</u>

CFR 47	FCC Part15 (15.2 ISED RSS-247	
Section	Test Item	Limit
CFR 47 15.247 (a) (1) III ISED RSS-247 Clause 5.1 (d)	Time of Occupancy (Dwell Time)	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.

TEST PROCEDURE

Connect the UUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Average
RBW	1MHz
VBW	≥RBW
Span	zero span
Trace	Clear Write
Sweep time	As necessary to capture the entire dwell time per hopping channel

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

- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse. A Period Time = (channel number)*0.4

For FHSS Mode (79 Channel):

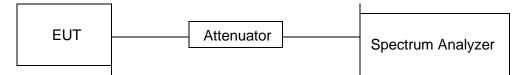
DH1 Time Slot: Reading * (1600/2)*31.6/(channel number) DH3 Time Slot: Reading * (1600/4)*31.6/(channel number) DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

For AFHSS Mode (20 Channel):

DH1 Time Slot: Reading * (800/2)*8/(channel number) DH3 Time Slot: Reading * (800/4)*8/(channel number) DH5 Time Slot: Reading * (800/6)*8/(channel number)



TEST SETUP



TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

RESULTS

Please refer to Appendix E.



7.7. CONDUCTED SPURIOUS EMISSION

LIMITS

C	FR 47 FCC Part15 (19 ISED RSS-24	
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

For Bandedge use the following settings:

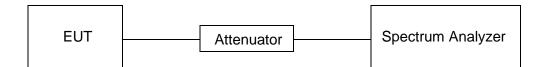
Detector	Peak
RBW	100kHz
VBW	300kHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

For Spurious Emission use the following settings:

Detector	Peak
RBW	100kHz
VBW	300kHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.0°C	Relative Humidity	67.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V



RESULTS

Please refer to Appendix G & H.



8.1. LIMITS AND PROCEDURE

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9kHz-1GHz)

Emissions rad	iated outside of the specified frequence	y bands above 30N	ИНz
Frequency Range	Field Strength Limit	Field Strer	ngth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m	uV/m) at 3 m
(((((((((((((((((((((((((((((((((((((((Quasi-	Peak
30 - 88	100	40)
88 - 216	150	43.	.5
216 - 960	200	46	6
Above 960	500	54	4
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emis	ssions radiated outside of the specified free	equency bands below 30MHz
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

	Table 6 – General field strength limits at frequencie	s below 30 MHz
Frequency	Magnetic field strength (H-Field) (μΑ/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

z	MHz	GHz
90 - 0.110	149.9 - 150.05	9.0 - 9.2
95 - 0.505	158.52475 - 158.52525	9.3 - 9.5
735 - 2.1905	156.7 - 156.9	10.6 - 12.7
20 - 3.026	162.0125 - 167.17	13.25 - 13.4
25 - 4.128	187.72 - 173.2	14.47 - 14.5
725 - 4.17775	240 - 285	15.35 - 16.2
0725 - 4.20775	322 - 335.4	17.7 - 21.4
77 - 5.683	399.9 - 410	22.01 - 23.12
15 - 6.218	608 - 614	23.6 - 24.0
3775 - 6.26825	960 - 1427	31.2 - 31.8
175 - 6.31225	1435 - 1626.5	36.43 - 36.5
1 - 8.294	1845.5 - 1648.5	Above 38.6
2 - 8.366	1660 - 1710	
7625 - 8.38675	1718.8 - 1722.2	
425 - 8.41475	2200 - 2300	
29 - 12.293	2310 - 2390	
1975 - 12.52025	2483.5 - 2500	
7675 - 12.57725	2855 - 2900	
3 - 13.41	3260 - 3267	
12 - 16.423	3332 - 3339	
9475 - 16.69525	3345.8 - 3358	
0425 - 16.80475	3500 - 4400	
- 25.67	4500 - 5150	
- 38.25	5350 - 5460	
74.6	7250 - 7750	
- 75.2	8025 - 8500	

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

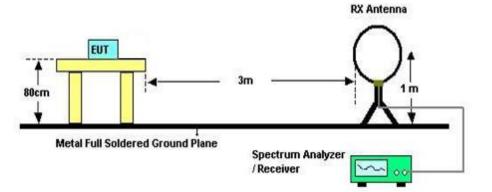
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ²Above 38.6c

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TEST SETUP AND PROCEDURE Below 30MHz



The setting of the spectrum Analyzer

RBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

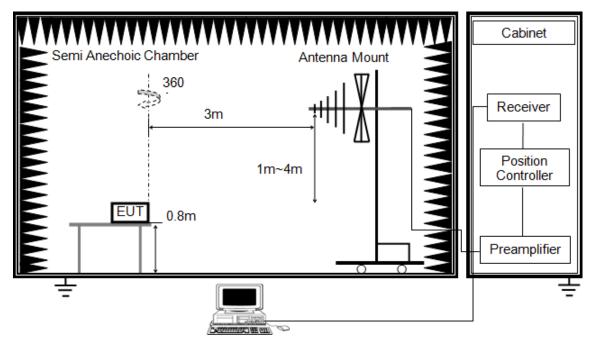
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m OFS. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



Below 1G and above 30MHz



The setting of the spectrum Analyzer

RBW	120kHz
VBW	300kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

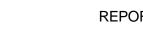
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80cm above ground.

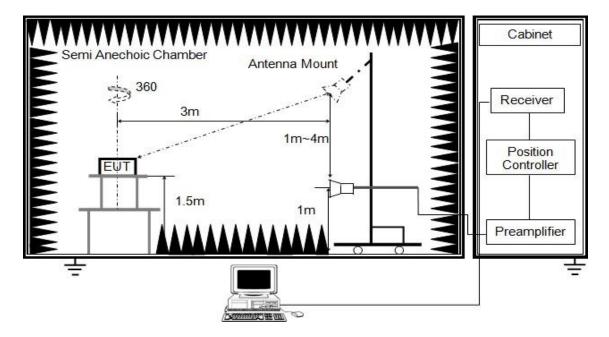
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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Above 1G



RBW	1MHz
	PEAK: 3MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 150cm above ground.

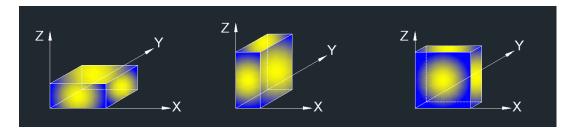
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note 1: For radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

TEST ENVIRONMENT

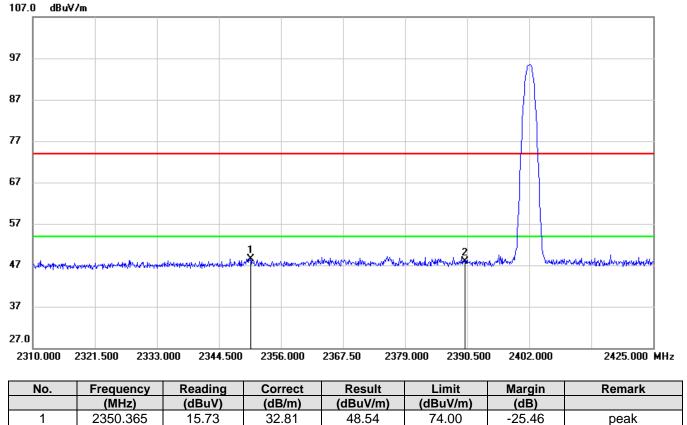
Temperature	23.5°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V



8.2. RESTRICTED BANDEDGE

8.2.1. GFSK MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Note: 1. Measurement = Reading Level + Correct Factor.

14.92

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

47.86

74.00

-26.14

peak

3. Peak: Peak detector.

2390.000

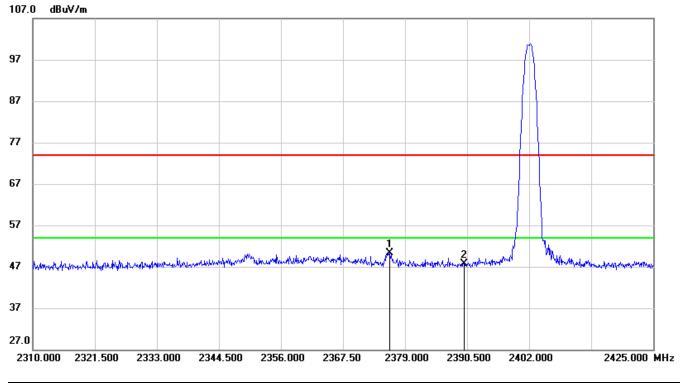
2

4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

32.94



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



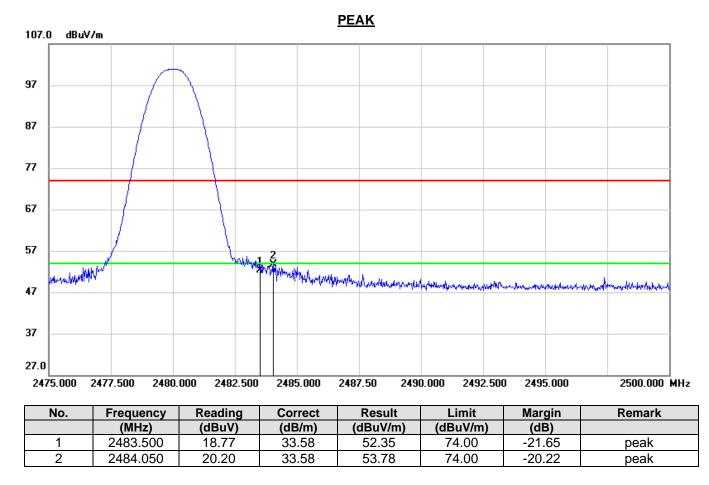
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2376.125	17.42	32.90	50.32	74.00	-23.68	peak
2	2390.000	14.77	32.94	47.71	74.00	-26.29	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 3.Peak: Peak detector.



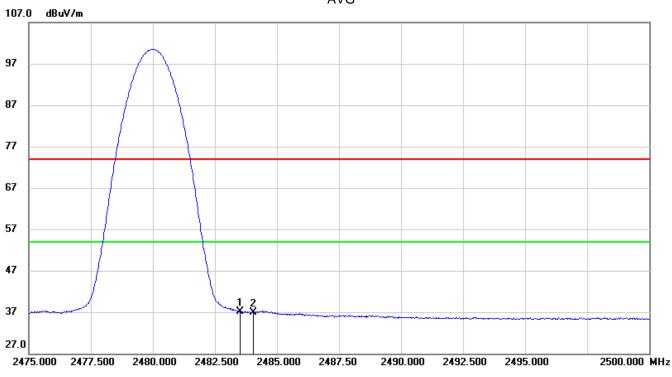
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Note: 1. Measurement = Reading Level + Correct Factor.

2.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 3.Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	3.54	33.58	37.12	54.00	-16.88	AVG
2	2484.050	3.38	33.58	36.96	54.00	-17.04	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 7.1.

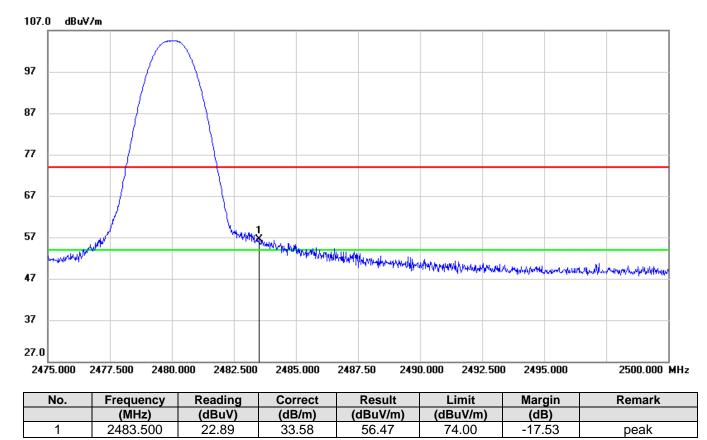
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

AVG



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

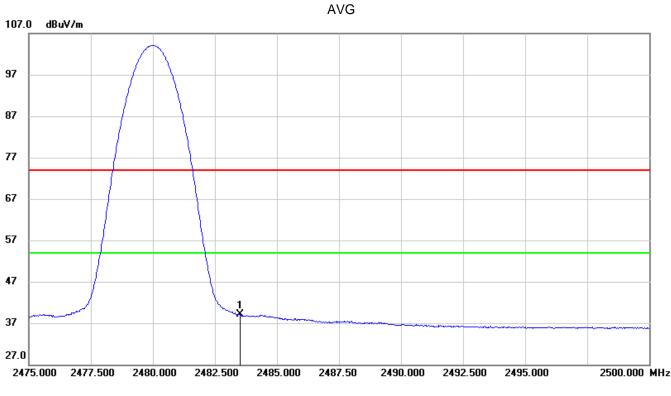
<u>PEAK</u>



Note: 1. Measurement = Reading Level + Correct Factor.

2.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit. 3.Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	5.46	33.58	39.04	54.00	-14.96	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

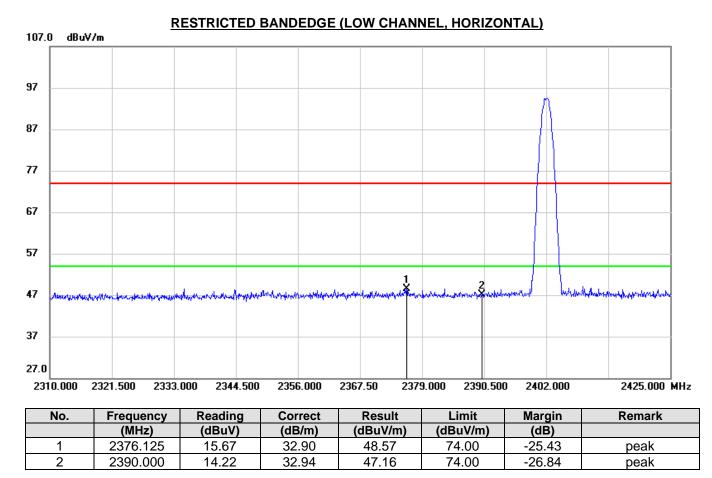
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 7.1.



8.2.2. 8DPSK MODE



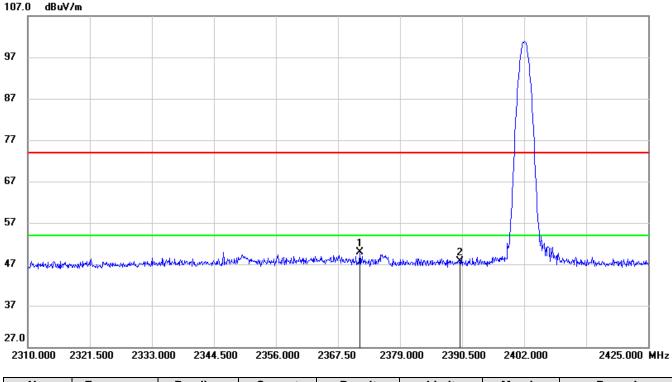
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2371.525	17.09	32.88	49.97	74.00	-24.03	peak
2	2390.000	14.84	32.94	47.78	74.00	-26.22	peak

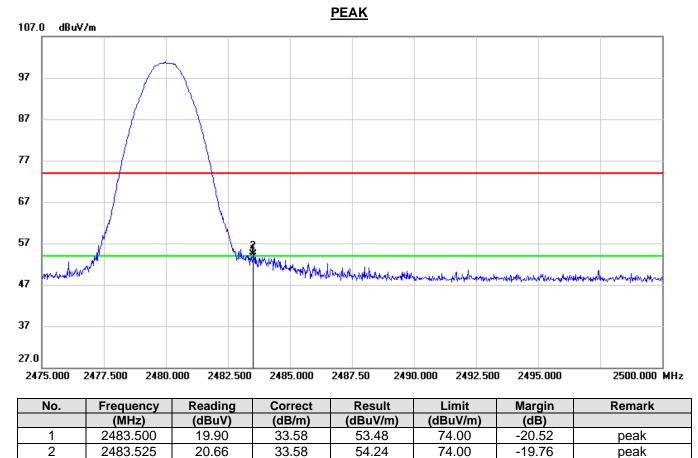
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

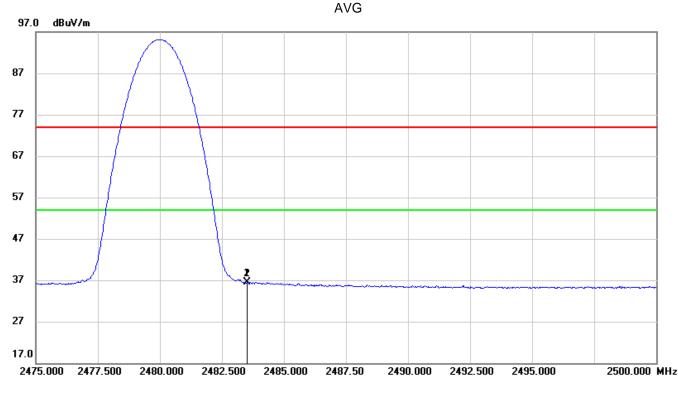


Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	2.93	33.58	36.51	54.00	-17.49	AVG
2	2483.525	2.96	33.58	36.54	54.00	-17.46	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

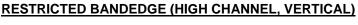
3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 7.1.

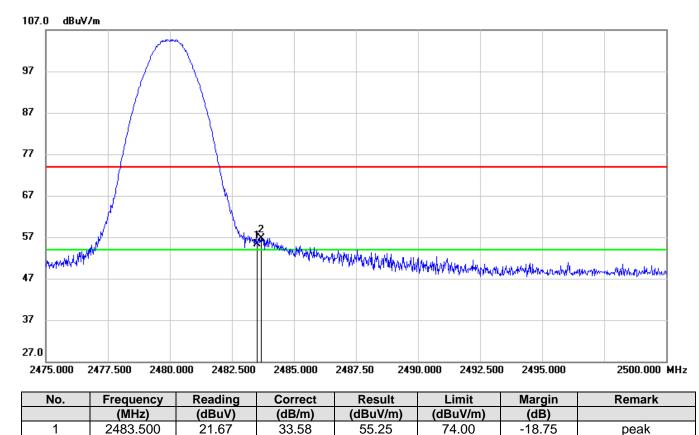


-17.22

peak



PEAK



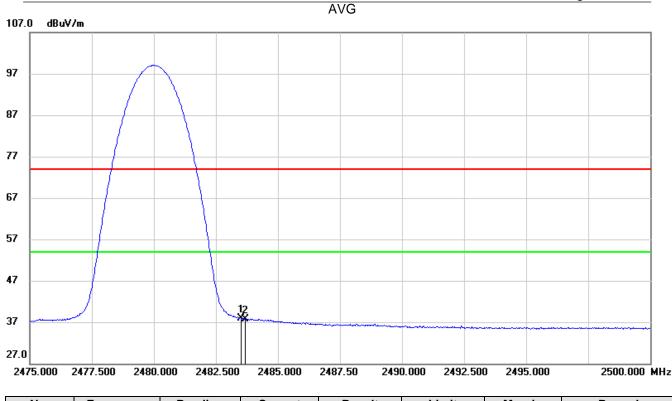
2	2483.675	23.20	33.58	56.78	74.00	

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	4.25	33.58	37.83	54.00	-16.17	AVG
2	2483.675	4.05	33.58	37.63	54.00	-16.37	AVG

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

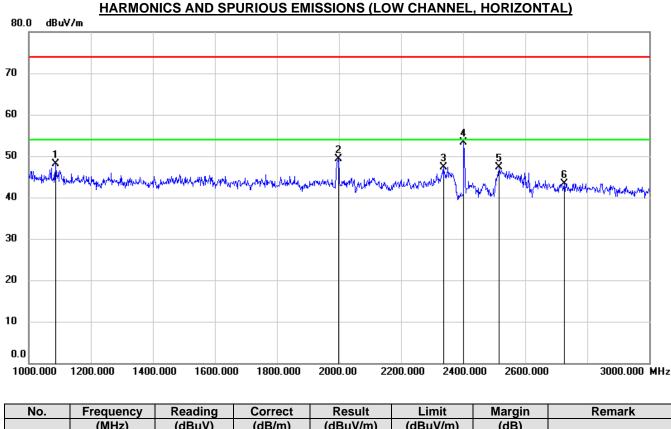
3. AVG: VBW=1/Ton where: ton is transmit duration.

4. For transmit duration, please refer to clause 7.1.



8.3. SPURIOUS EMISSIONS (1~3GHz)

8.3.1. GFSK MODE

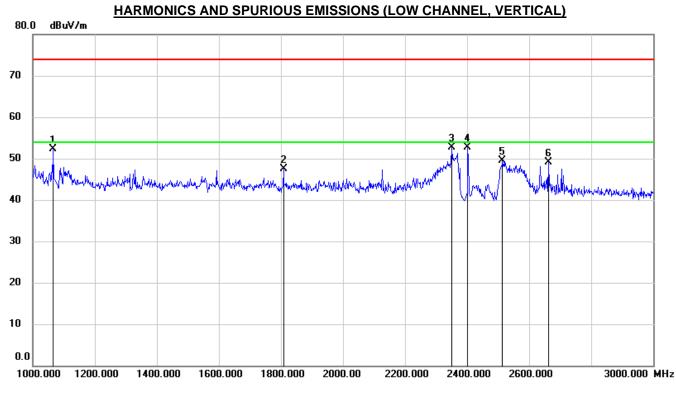


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1086.000	65.29	-17.27	48.02	74.00	-25.98	peak
2	1998.000	64.10	-14.79	49.31	74.00	-24.69	peak
3	2336.000	61.40	-14.00	47.40	74.00	-26.60	peak
4	2402.000	67.13	-13.85	53.28	/	/	fundamental
5	2516.000	60.78	-13.55	47.23	74.00	-26.77	peak
6	2726.000	56.09	-12.69	43.40	74.00	-30.60	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

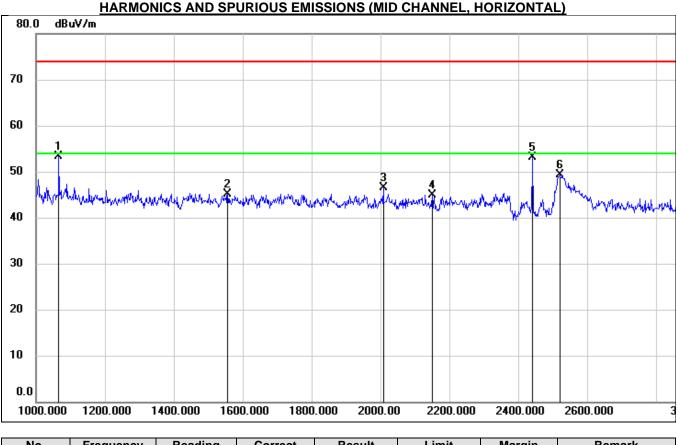




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1066.000	69.68	-17.29	52.39	74.00	-21.61	peak
2	1808.000	62.89	-15.48	47.41	74.00	-26.59	peak
3	2350.000	66.64	-13.96	52.68	74.00	-21.32	peak
4	2402.000	66.48	-13.85	52.63	/	/	fundamental
5	2514.000	63.03	-13.56	49.47	74.00	-24.53	peak
6	2662.000	62.01	-12.95	49.06	74.00	-24.94	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

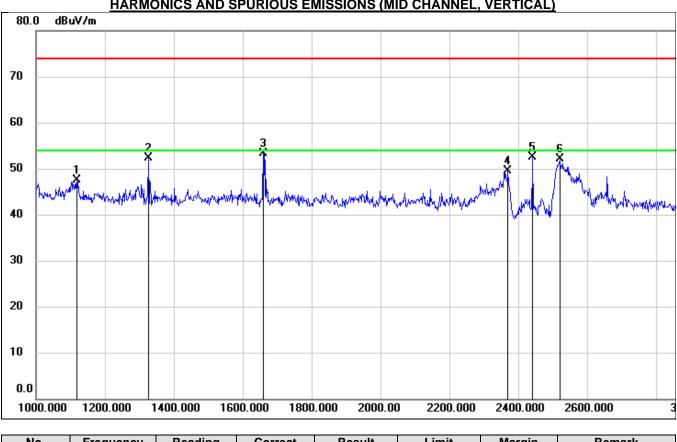




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1066.000	70.68	-17.29	53.39	74.00	-20.61	peak
2	1556.000	61.47	-16.39	45.08	74.00	-28.92	peak
3	2008.000	61.34	-14.77	46.57	74.00	-27.43	peak
4	2150.000	59.34	-14.43	44.91	74.00	-29.09	peak
5	2441.000	66.86	-13.75	53.11	/	/	fundamental
6	2520.000	62.77	-13.53	49.24	74.00	-24.76	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





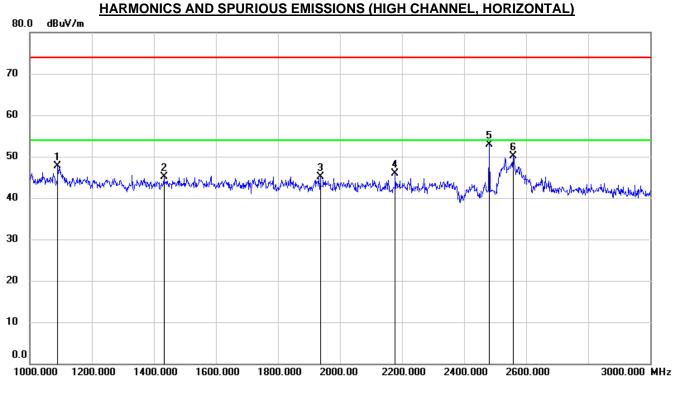
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1118.000	64.71	-17.21	47.50	74.00	-26.50	peak
2	1326.000	69.16	-16.87	52.29	74.00	-21.71	peak
3	1660.000	69.31	-16.01	53.30	74.00	-20.70	peak
4	2370.000	63.50	-13.91	49.59	74.00	-24.41	peak
5	2441.000	66.20	-13.75	52.45	/	/	fundamental
6	2520.000	65.72	-13.53	52.19	74.00	-21.81	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

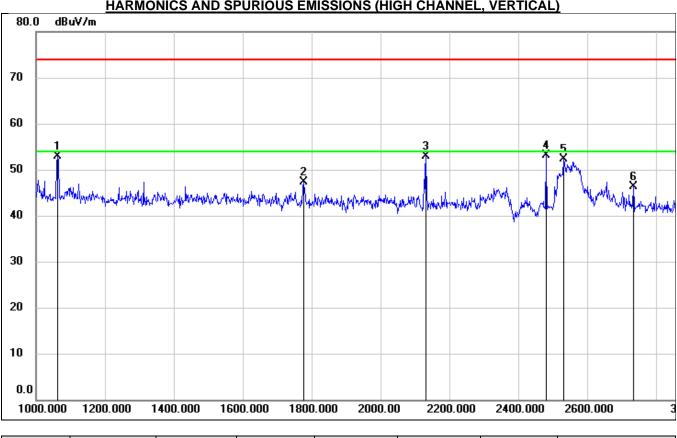




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1090.000	64.89	-17.26	47.63	74.00	-26.37	peak
2	1432.000	61.75	-16.70	45.05	74.00	-28.95	peak
3	1936.000	60.12	-15.01	45.11	74.00	-28.89	peak
4	2178.000	60.36	-14.37	45.99	74.00	-28.01	peak
5	2480.000	66.53	-13.67	52.86	/	/	fundamental
6	2558.000	63.55	-13.37	50.18	74.00	-23.82	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

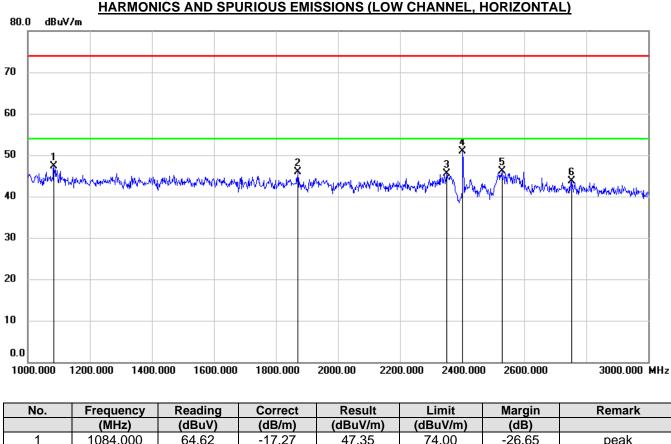
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1062.000	70.22	-17.30	52.92	74.00	-21.08	peak
2	1776.000	62.96	-15.59	47.37	74.00	-26.63	peak
3	2132.000	67.28	-14.47	52.81	74.00	-21.19	peak
4	2480.000	66.78	-13.67	53.11	/	/	fundamental
5	2532.000	65.77	-13.48	52.29	74.00	-21.71	peak
6	2734.000	59.05	-12.65	46.40	74.00	-27.60	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.2. 8DPSK MODE

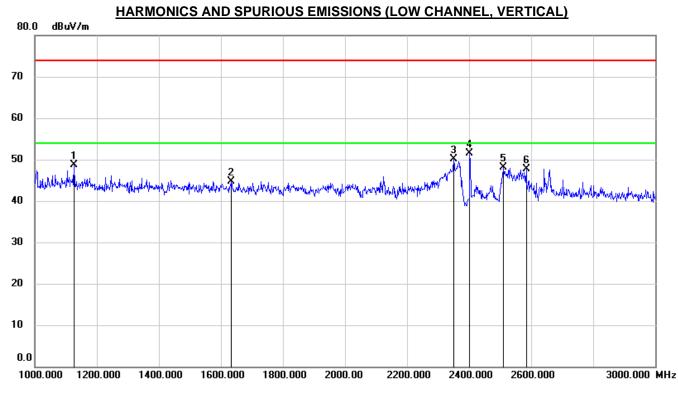


		nouung		nooun			
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1084.000	64.62	-17.27	47.35	74.00	-26.65	peak
2	1870.000	61.18	-15.25	45.93	74.00	-28.07	peak
3	2350.000	59.48	-13.96	45.52	74.00	-28.48	peak
4	2402.000	64.74	-13.85	50.89	/	/	fundamental
5	2528.000	59.59	-13.50	46.09	74.00	-27.91	peak
6	2754.000	56.28	-12.57	43.71	74.00	-30.29	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

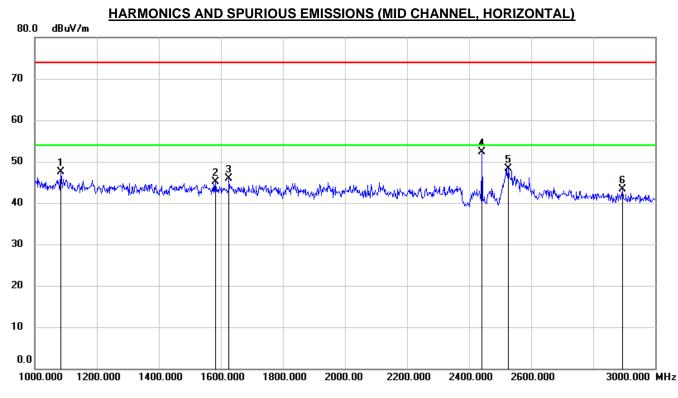




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1126.000	65.94	-17.19	48.75	74.00	-25.25	peak
2	1634.000	60.81	-16.10	44.71	74.00	-29.29	peak
3	2350.000	64.00	-13.96	50.04	74.00	-23.96	peak
4	2402.000	65.27	-13.85	51.42	/	/	fundamental
5	2510.000	61.67	-13.57	48.10	74.00	-25.90	peak
6	2584.000	60.93	-13.27	47.66	74.00	-26.34	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

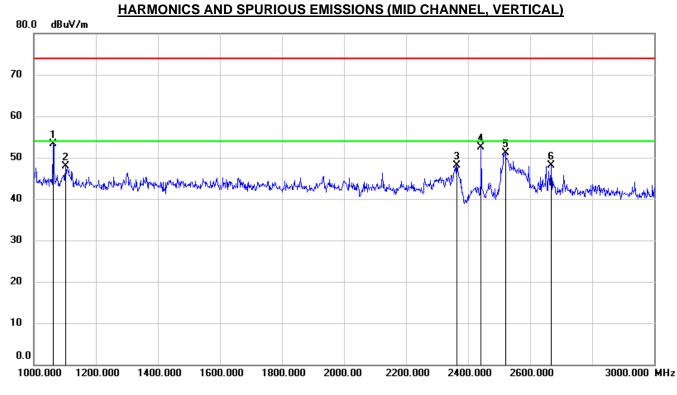




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1084.000	64.68	-17.27	47.41	74.00	-26.59	peak
2	1582.000	61.35	-16.29	45.06	74.00	-28.94	peak
3	1626.000	61.98	-16.13	45.85	74.00	-28.15	peak
4	2441.000	66.12	-13.75	52.37	/	/	fundamental
5	2526.000	61.86	-13.51	48.35	74.00	-25.65	peak
6	2894.000	55.23	-11.99	43.24	74.00	-30.76	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

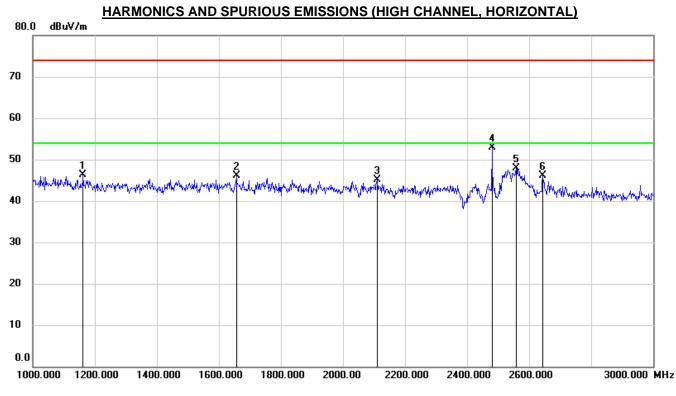




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1062.000	70.55	-17.30	53.25	74.00	-20.75	peak
2	1102.000	65.15	-17.24	47.91	74.00	-26.09	peak
3	2364.000	62.10	-13.93	48.17	74.00	-25.83	peak
4	2441.000	66.29	-13.75	52.54	/	/	fundamental
5	2520.000	64.65	-13.53	51.12	74.00	-22.88	peak
6	2668.000	60.97	-12.93	48.04	74.00	-25.96	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

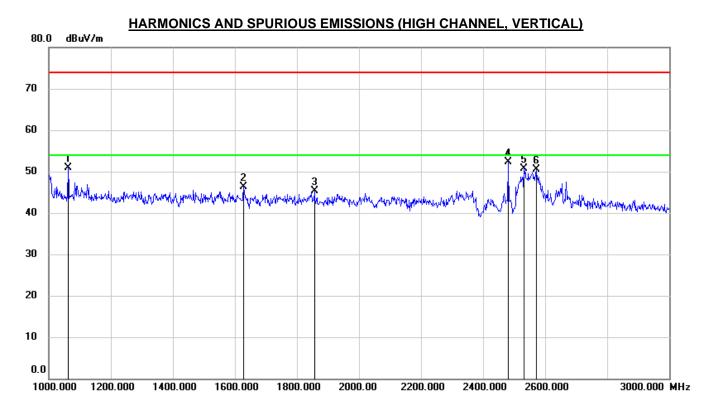




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1162.000	63.42	-17.14	46.28	74.00	-27.72	peak
2	1656.000	62.07	-16.03	46.04	74.00	-27.96	peak
3	2110.000	59.60	-14.52	45.08	74.00	-28.92	peak
4	2480.000	66.52	-13.67	52.85	/	/	fundamental
5	2558.000	61.26	-13.37	47.89	74.00	-26.11	peak
6	2644.000	59.13	-13.02	46.11	74.00	-27.89	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





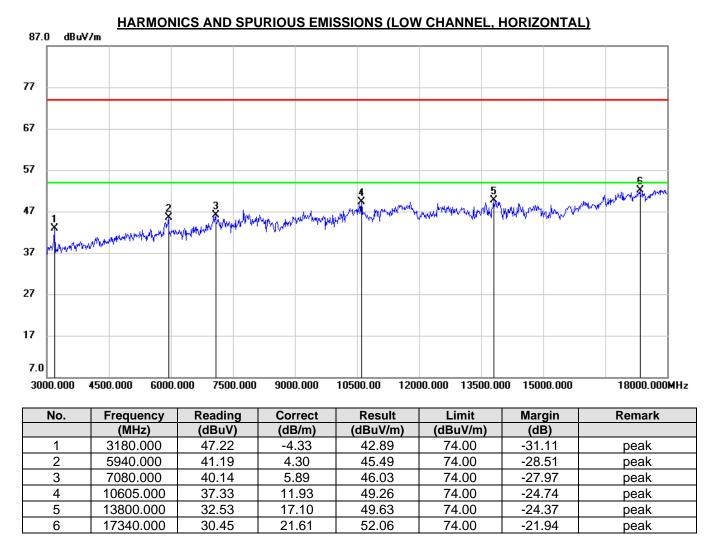
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1062.000	68.30	-17.30	51.00	74.00	-23.00	peak
2	1628.000	62.41	-16.12	46.29	74.00	-27.71	peak
3	1856.000	60.52	-15.30	45.22	74.00	-28.78	peak
4	2480.000	65.97	-13.67	52.30	/	/	fundamental
5	2532.000	64.28	-13.48	50.80	74.00	-23.20	peak
6	2572.000	63.74	-13.32	50.42	74.00	-23.58	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.4. SPURIOUS EMISSIONS (3~18GHz)

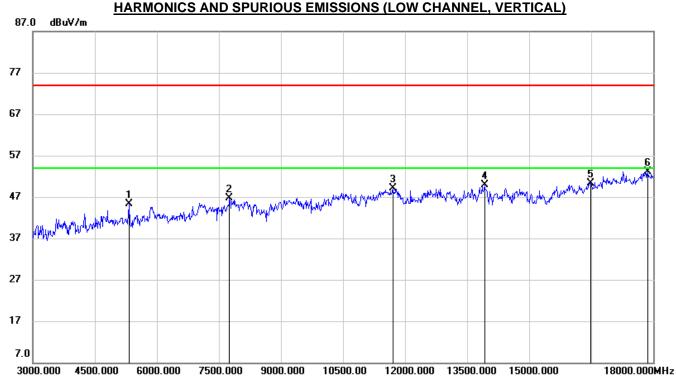
8.4.1. GFSK MODE



Note: 1. Peak Result = Reading Level + Correct Factor.

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

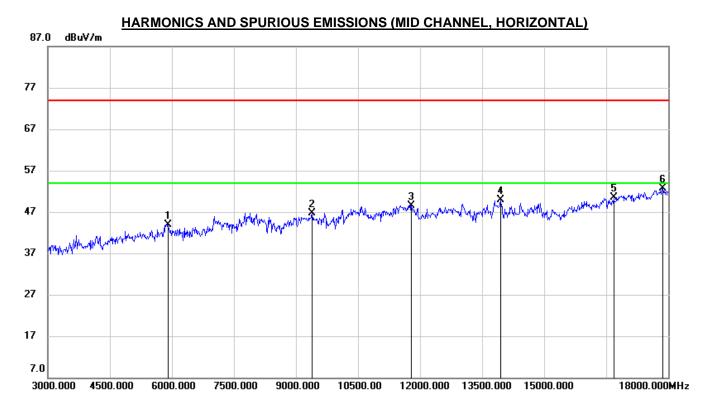




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5325.000	43.27	1.99	45.26	74.00	-28.74	peak
2	7755.000	39.35	7.29	46.64	74.00	-27.36	peak
3	11700.000	36.15	12.95	49.10	74.00	-24.90	peak
4	13920.000	33.67	16.17	49.84	74.00	-24.16	peak
5	16485.000	31.26	19.13	50.39	74.00	-23.61	peak
6	17865.000	29.79	23.33	53.12	74.00	-20.88	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5910.000	39.08	4.79	43.87	74.00	-30.13	peak
2	9390.000	37.15	9.53	46.68	74.00	-27.32	peak
3	11790.000	35.42	13.17	48.59	74.00	-25.41	peak
4	13950.000	33.87	16.11	49.98	74.00	-24.02	peak
5	16680.000	30.62	19.84	50.46	74.00	-23.54	peak
6	17865.000	29.46	23.33	52.79	74.00	-21.21	peak

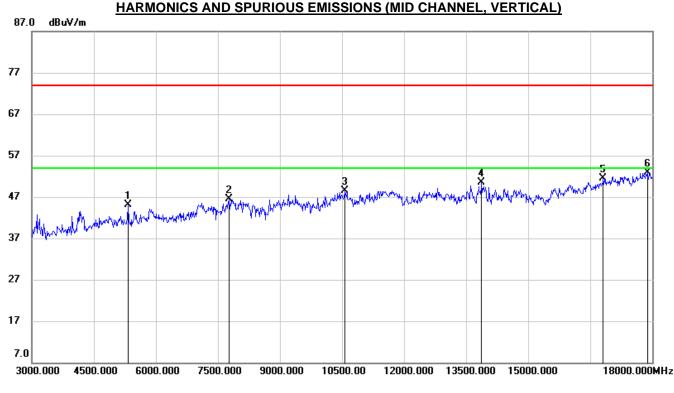
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

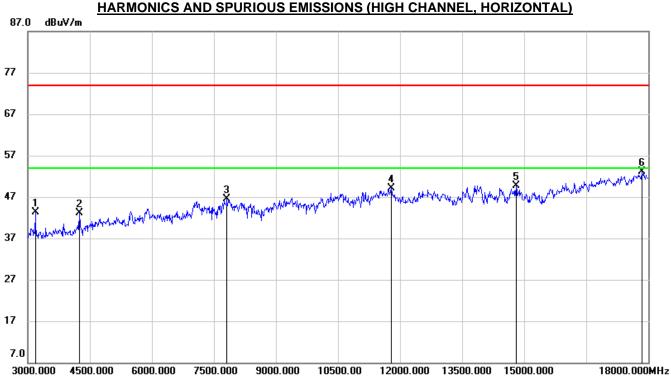




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5325.000	43.11	1.99	45.10	74.00	-28.90	peak
2	7770.000	39.02	7.50	46.52	74.00	-27.48	peak
3	10575.000	36.61	11.81	48.42	74.00	-25.58	peak
4	13875.000	34.02	16.44	50.46	74.00	-23.54	peak
5	16815.000	31.53	19.96	51.49	74.00	-22.51	peak
6	17880.000	29.66	23.34	53.00	74.00	-21.00	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

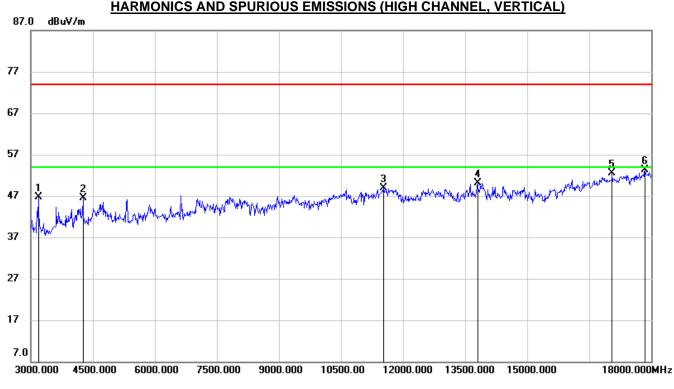




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3180.000	47.54	-4.33	43.21	74.00	-30.79	peak
2	4245.000	44.66	-1.59	43.07	74.00	-30.93	peak
3	7815.000	38.60	7.83	46.43	74.00	-27.57	peak
4	11790.000	35.97	13.17	49.14	74.00	-24.86	peak
5	14805.000	33.76	15.92	49.68	74.00	-24.32	peak
6	17850.000	29.71	23.32	53.03	74.00	-20.97	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





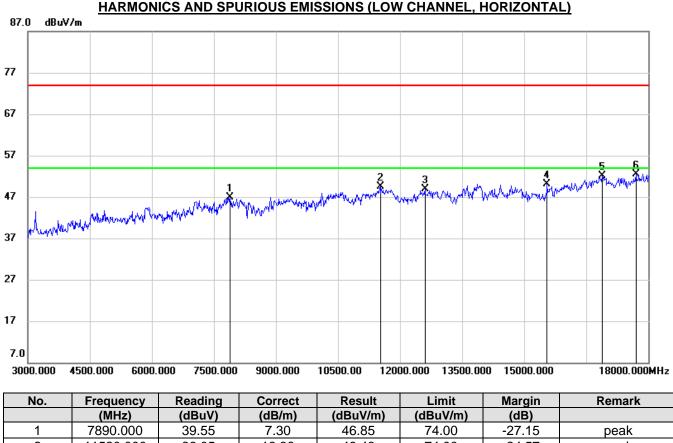
Reading Remark No. Frequency Correct Result Limit Margin (dBuV/m) (dBuV/m) (MHz) (dBuV) (dB/m) (dB) 3180.000 1 50.96 -4.33 46.63 74.00 -27.37 peak 2 4260.000 48.12 -1.71 46.41 74.00 -27.59 peak 3 35.53 13.38 48.91 74.00 -25.09 11520.000 peak 4 13800.000 32.92 17.10 74.00 50.02 -23.98 peak 5 17055.000 31.89 20.53 52.42 74.00 -21.58 peak 6 17850.000 30.07 23.32 53.39 74.00 -20.61 peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.4.2. 8DPSK MODE

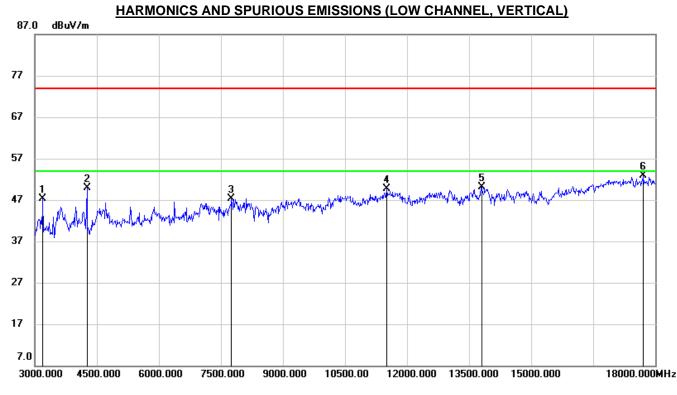


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	39.55	7.30	46.85	74.00	-27.15	peak
2	11520.000	36.05	13.38	49.43	74.00	-24.57	peak
3	12600.000	34.90	13.99	48.89	74.00	-25.11	peak
4	15555.000	33.36	16.66	50.02	74.00	-23.98	peak
5	16890.000	32.19	19.97	52.16	74.00	-21.84	peak
6	17700.000	30.09	22.43	52.52	74.00	-21.48	peak

Note: 1. Peak Result = Reading Level + Correct Factor.

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3195.000	51.65	-4.42	47.23	74.00	-26.77	peak
2	4260.000	51.53	-1.71	49.82	74.00	-24.18	peak
3	7755.000	40.08	7.29	47.37	74.00	-26.63	peak
4	11505.000	36.33	13.42	49.75	74.00	-24.25	peak
5	13800.000	33.03	17.10	50.13	74.00	-23.87	peak
6	17715.000	30.36	22.56	52.92	74.00	-21.08	peak

Note: 1. Measurement = Reading Level + Correct Factor.

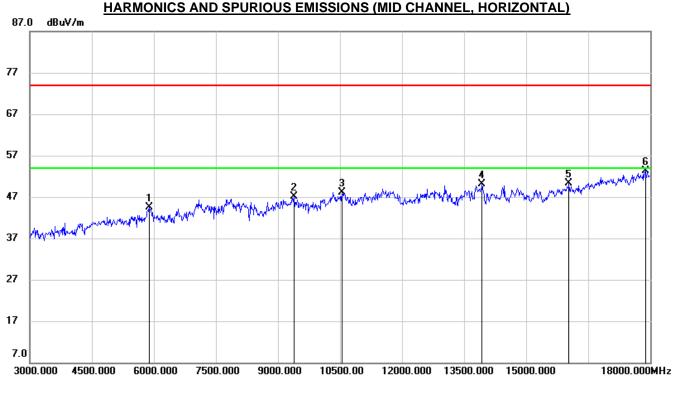
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

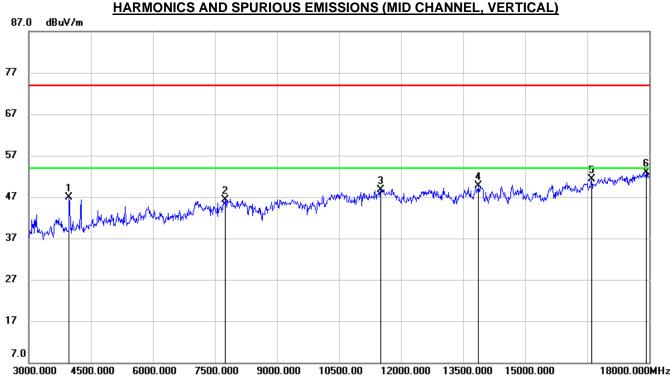




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	40.01	4.59	44.60	74.00	-29.40	peak
2	9390.000	37.53	9.53	47.06	74.00	-26.94	peak
3	10545.000	36.44	11.64	48.08	74.00	-25.92	peak
4	13935.000	33.87	16.15	50.02	74.00	-23.98	peak
5	16035.000	32.39	17.85	50.24	74.00	-23.76	peak
6	17880.000	30.02	23.34	53.36	74.00	-20.64	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

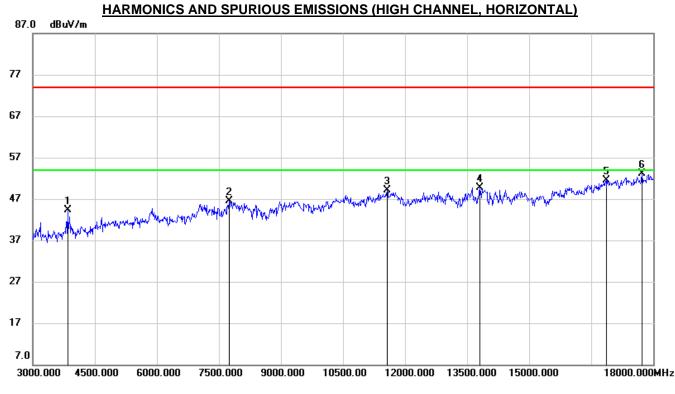




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3975.000	49.76	-2.90	46.86	74.00	-27.14	peak
2	7755.000	38.92	7.29	46.21	74.00	-27.79	peak
3	11505.000	35.31	13.42	48.73	74.00	-25.27	peak
4	13875.000	33.21	16.44	49.65	74.00	-24.35	peak
5	16605.000	31.78	19.49	51.27	74.00	-22.73	peak
6	17925.000	29.56	23.37	52.93	74.00	-21.07	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

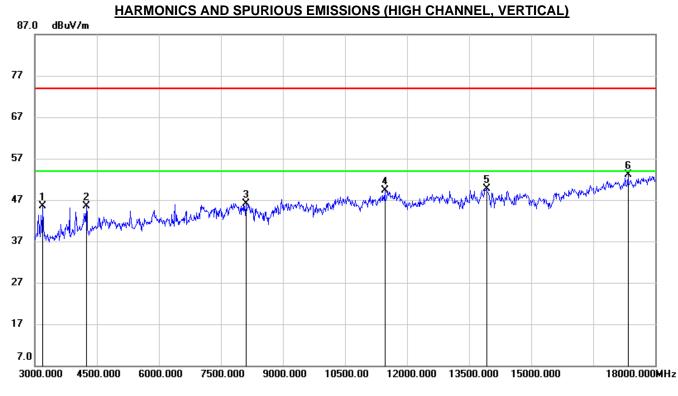




No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3840.000	47.21	-2.84	44.37	74.00	-29.63	peak
2	7740.000	39.42	7.08	46.50	74.00	-27.50	peak
3	11565.000	35.78	13.26	49.04	74.00	-24.96	peak
4	13800.000	32.56	17.10	49.66	74.00	-24.34	peak
5	16860.000	31.62	19.95	51.57	74.00	-22.43	peak
6	17730.000	30.45	22.70	53.15	74.00	-20.85	peak

- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3195.000	49.94	-4.42	45.52	74.00	-28.48	peak
2	4245.000	47.12	-1.59	45.53	74.00	-28.47	peak
3	8100.000	38.36	7.81	46.17	74.00	-27.83	peak
4	11460.000	36.19	13.11	49.30	74.00	-24.70	peak
5	13920.000	33.45	16.17	49.62	74.00	-24.38	peak
6	17340.000	31.52	21.61	53.13	74.00	-20.87	peak

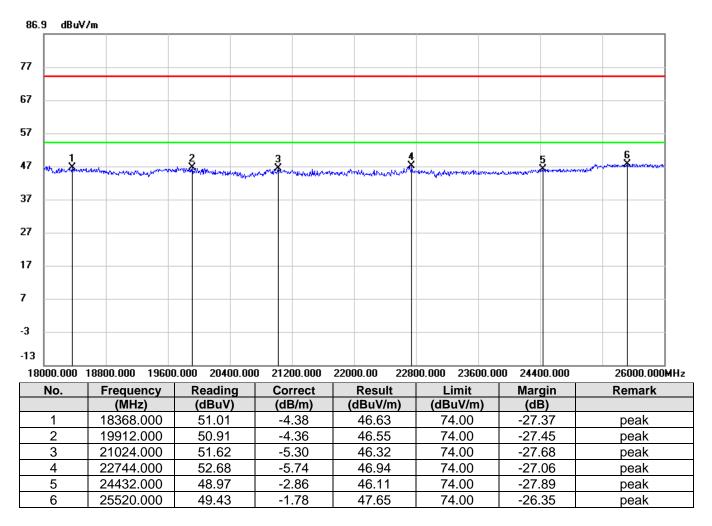
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton where: ton is transmit duration.
- 5. For transmit duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
- 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.5. SPURIOUS EMISSIONS 18G ~ 26GHz

8.5.1. GFSK MODE

SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



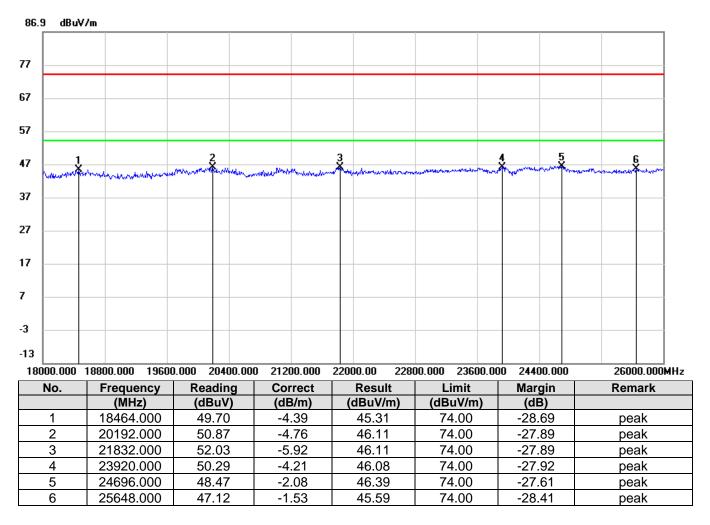
Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.



SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



Note: 1. Peak Result = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

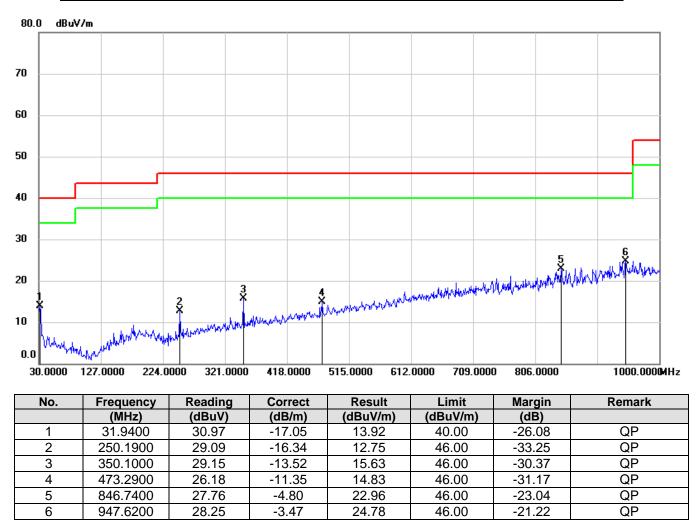
3. Peak: Peak detector.

Note: All test modes have been tested, only the worst data record in the report.



8.6. SPURIOUS EMISSIONS 30M ~ 1 GHz

8.6.1. GFSK MODE



SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

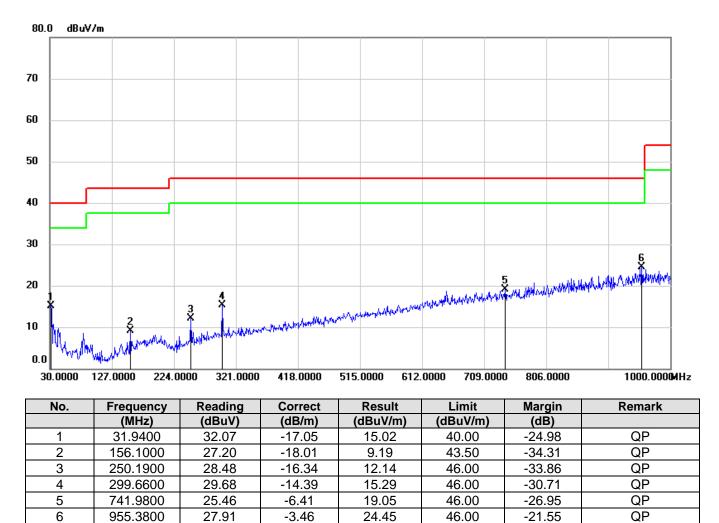
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

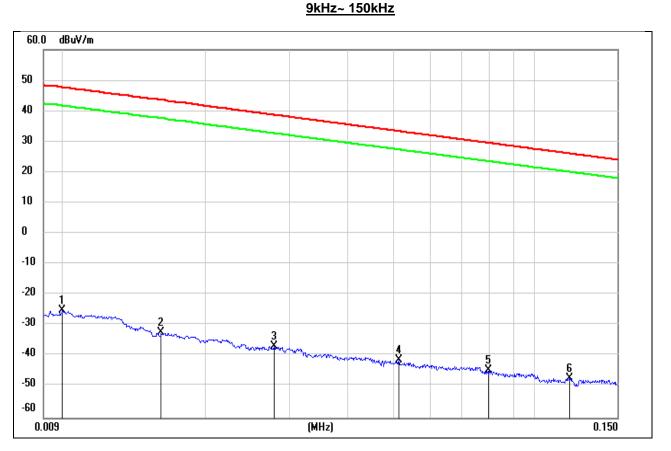
Note: All test modes have been tested, only the worst data record in the report.



8.7. SPURIOUS EMISSIONS BELOW 30M

8.7.1. GFSK MODE

SPURIOUS EMISSIONS (MID CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	ISED	ISED	Margin	Remark
						Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	76.22	-101.40	-25.18	47.60	-76.68	-3.90	-72.78	peak
2	0.0160	68.97	-101.37	-32.40	43.52	-83.90	-7.98	-75.92	peak
3	0.0279	64.67	-101.38	-36.71	38.69	-88.21	-12.81	-75.40	peak
4	0.0514	60.18	-101.48	-41.30	33.38	-92.8	-18.12	-74.68	peak
5	0.0796	57.03	-101.63	-44.60	29.58	-96.10	-21.92	-74.18	peak
6	0.1184	54.52	-101.74	-47.22	26.14	-98.72	-25.36	-73.36	peak

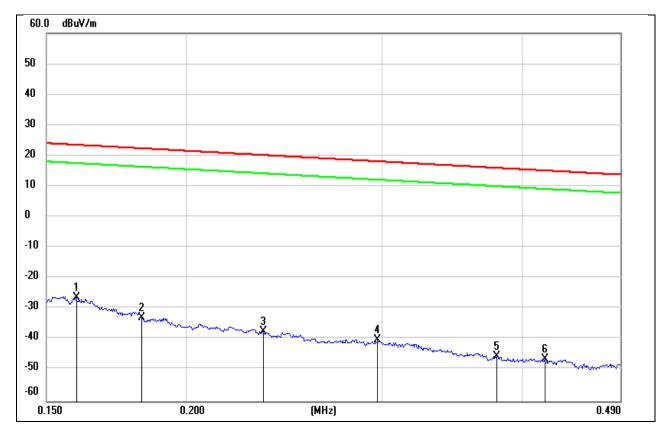
Note: 1. Measurement = Reading Level + Correct Factor ($dBuA/m = dBuV/m - 20Log10[120\pi] = dBuV/m - 51.5$).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



<u> 150kHz ~ 490kHz</u>



No.	Frequency	Reading	Correct	Result	Limit	ISED	ISED	Margin	Remark
						Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1595	75.36	-101.65	-26.29	23.55	-77.79	-27.95	-49.84	peak
2	0.1826	68.76	-101.69	-32.93	22.38	-84.43	-29.12	-55.31	peak
3	0.2346	64.35	-101.77	-37.42	20.19	-88.92	-31.31	-57.61	peak
4	0.2972	61.66	-101.85	-40.19	18.14	-91.69	-33.36	-58.33	peak
5	0.3800	56.52	-101.94	-45.42	16.01	-96.92	-35.49	-61.43	peak
6	0.4193	55.68	-101.98	-46.30	15.15	-97.80	-36.35	-61.45	peak

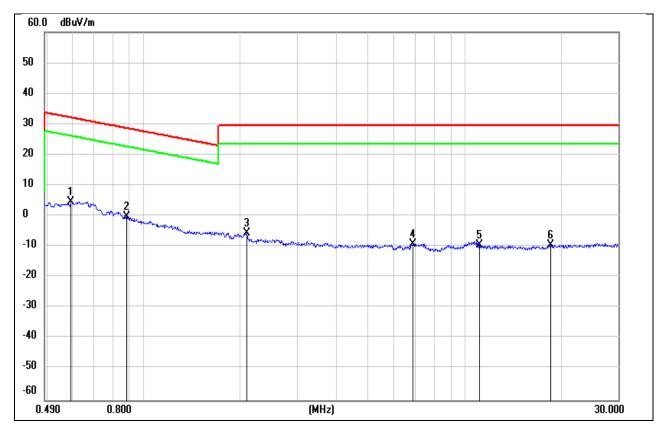
Note: 1. Measurement = Reading Level + Correct Factor ($dBuA/m = dBuV/m - 20Log10[120\pi] = dBuV/m - 51.5$).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.



<u>490kHz ~ 30MHz</u>



No.	Frequency	Reading	Correct	Result	Limit	ISED	ISED	Margin	Remark
						Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5917	66.74	-62.08	4.66	32.16	-46.84	-19.34	-27.50	peak
2	0.8820	62.18	-62.19	-0.01	28.69	-51.51	-22.81	-28.70	peak
3	2.0939	56.39	-61.79	-5.40	29.54	-56.90	-21.96	-34.94	peak
4	6.8936	52.09	-61.22	-9.13	29.54	-60.63	-21.96	-38.67	peak
5	11.0838	51.28	-60.84	-9.56	29.54	-61.06	-21.96	-39.10	peak
6	18.4908	51.55	-60.89	-9.34	29.54	-60.84	-21.96	-38.88	peak

Note: 1. Measurement = Reading Level + Correct Factor ($dBuA/m = dBuV/m - 20Log10[120\pi] = dBuV/m - 51.5$).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All test modes have been tested, only the worst data record in the report.



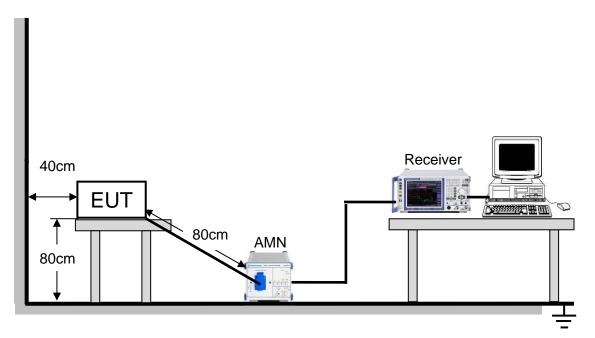
9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8.

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

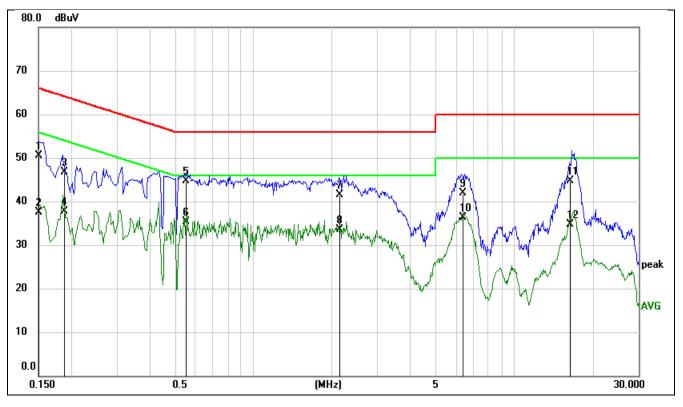
Temperature	22.0°C	Relative Humidity	68.3%
Atmosphere Pressure	101kPa	Test Voltage	AC120V 60Hz

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9.1. 8DPSK MODE

TEST RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



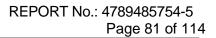
LINE N RESULTS

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1511	40.86	9.60	50.46	65.94	-15.48	QP
2	0.1511	27.83	9.60	37.43	55.94	-18.51	AVG
3	0.1887	37.10	9.60	46.70	64.09	-17.39	QP
4	0.1887	28.17	9.60	37.77	54.09	-16.32	AVG
5	0.5577	35.19	9.60	44.79	56.00	-11.21	QP
6	0.5577	25.78	9.60	35.38	46.00	-10.62	AVG
7	2.1547	31.96	9.63	41.59	56.00	-14.41	QP
8	2.1547	23.84	9.63	33.47	46.00	-12.53	AVG
9	6.3794	32.19	9.71	41.90	60.00	-18.10	QP
10	6.3794	26.52	9.71	36.23	50.00	-13.77	AVG
11	16.5497	34.66	10.00	44.66	60.00	-15.34	QP
12	16.5497	24.67	10.00	34.67	50.00	-15.33	AVG

Note: 1. Result = Reading +Correct Factor.

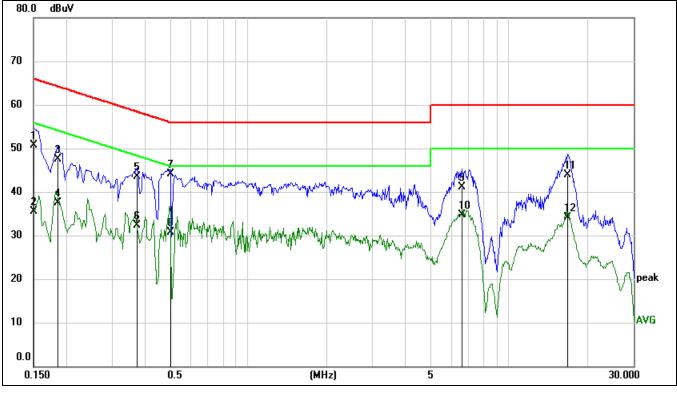
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

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UL

LINE L RESULTS



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1511	41.17	9.61	50.78	65.94	-15.16	QP
2	0.1511	25.82	9.61	35.43	55.94	-20.51	AVG
3	0.1855	37.92	9.60	47.52	64.24	-16.72	QP
4	0.1855	27.95	9.60	37.55	54.24	-16.69	AVG
5	0.3764	33.88	9.60	43.48	58.36	-14.88	QP
6	0.3764	22.65	9.60	32.25	48.36	-16.11	AVG
7	0.5001	34.42	9.60	44.02	56.00	-11.98	QP
8	0.5001	21.13	9.60	30.73	46.00	-15.27	AVG
9	6.6373	31.39	9.70	41.09	60.00	-18.91	QP
10	6.6373	24.95	9.70	34.65	50.00	-15.35	AVG
11	16.7912	34.00	9.94	43.94	60.00	-16.06	QP
12	16.7912	24.07	9.94	34.01	50.00	-15.99	AVG

Note: 1. Result = Reading +Correct Factor.

- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
- 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All the modes and channels had been tested, but only the worst data recorded in the report.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

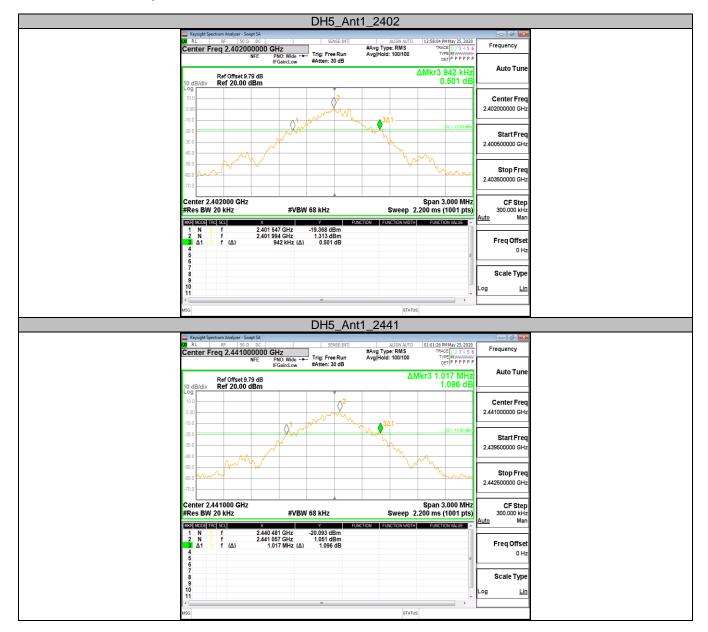
Complies



Appendix A: 20dB Emission Bandwidth Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.942	2401.547	2402.489		PASS
DH5	Ant1	2441	1.017	2440.481	2441.498		PASS
		2480	0.930	2479.499	2480.429		PASS
		2402	1.275	2401.352	2402.627		PASS
3DH5	Ant1	2441	1.179	2440.421	2441.600		PASS
		2480	1.155	2479.427	2480.582		PASS

Test Graphs





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						1 age 00 01 114
		DH5_A	nt1_2480			
	Keysight Spectrum Analyzer - Swept SA				- 2 -	
	RL RF 50 Ω DC Center Freq 2.48000000	0 GHz	ALIGN AUTO #Avg Type: RMS	01:07:07 PM May 25, 2020 TRACE 1 2 3 4 5 6	Frequency	
	Veriller Freq 2.4600000	PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE M		
				Mkr3 930 kHz	Auto Tune	
	Ref Offset 9.79 dB 10 dB/div Ref 20.00 dBm		4	0.187 dB		
	Log	Y I I I I I I I I I I I I I I I I I I I				
	10.0	\wedge^2			Center Freq	
	0.00	wwww			2.48000000 GHz	
	-10.0		∿⊶3∆1	DL1 -18.60 dBm		
	-20.0	A AV	- May		Start Freq	
	-30.0	N	- Yhay		2.478500000 GHz	
	-40.0			My -		
	-50.0			humm	Stop Freq	
					2.481500000 GHz	
	-70.0					
	Center 2.480000 GHz			Span 3.000 MHz	CF Step	
	#Res BW 20 kHz	#VBW 68 kHz	· · ·	200 ms (1001 pts)	300.000 kHz	
	MKR MODE TRC SCL X	79 499 GHz -18.991 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man	
	1 N 1 f 2.4 2 N 1 f 2.4	80 057 GHz 1.405 dBm			Eron Offert	
	3 Δ1 1 f (Δ)	930 kHz (Δ) 0.187 dB			Freq Offset 0 Hz	
	5			E	0112	
	7				Coole Trme	
	9				Scale Type	
	10 11				Log <u>Lin</u>	
	<[m		•		
	MSG		STATUS			
		3DH5 A	nt1_2402			
	Keysight Spectrum Analyzer - Swept SA					
	RL RF 50 Ω DC Center Freq 2.40200000	0 GHz	#Avg Type: RMS	01:10:06 PM May 25, 2020 TRACE 1 2 3 4 5 6 TYPE M	Frequency	
	NFE	PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 100/100	DET P P P P P		
			٨М	kr3 1.275 MHz	Auto Tune	
	Ref Offset 9.79 dB 10 dB/div Ref 20.00 dBm			0.361 dB		
	Log	The second secon				
	10.0	A2			Center Freq	
	0.00				2.402000000 GHz	
	-10.0	1 mm wer Vin	mm _ 3∆1			
	-20.0	<u>Y</u>		DL1 -23.40 dBm	Start Freq	
	-30.0	1			2.400500000 GHz	
1						
	-40.0		$\langle \wedge \rangle$	m i		
	-50.0 mm / MM			Mary Mary	Stop Freq	
	-50.0			and and a second	Stop Freq 2.403500000 GHz	
	-50.0 mm / MM			Mar and a second s		
	50.0 60.0 70.0 Center 2.402000 GHz			Span 3.000 MHz	2.403500000 GHz	
	60.0 70.0 Center 2.402000 GHz #Res BW 20 kHz	#VBW 68 kHz		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz	
	50.0 60.0 70.0 Center 2.402000 GHz #Res BW 20 kHz TOR LIVE FOR FOR FOR	l v l	Sweep 2.1	Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz	
	50.0 60.0 70.0 Center 2.402000 GHz #Res BW 20 kHz TOR LIVE FOR FOR FOR	l v l		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man	
	50.0 60.0 70.0 Center 2.402000 GHz #Res BW 20 kHz TOR LIVE FOR FOR FOR	01 352 GHz -23.910 dBm		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man Freq Offset	
	50.0 60.0 70.0 Center 2.402000 GHz #Res BW 20 kHz TOR LIVE FOR FOR FOR	l v l		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man	
	50.0 60.0 70.0 Center 2.402000 GHz #Res BW 20 kHz TOR LIVE FOR FOR FOR	l v l		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man Freq Offset 0 Hz	
	500	l v l		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man Freq Offset	
	600	l v l		Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man Freq Offset 0 Hz	
	600	l v l	FUNCTION FUNCTION MIDTH	Span 3.000 MHz 200 ms (1001 pts)	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man Freq Offset 0 Hz Scale Type	
	600	l v l		Span 3.000 MHz 200 ms (1001 pts) FUNCTIONVALUE	2.403500000 GHz CF Step 300.000 kHz <u>Auto</u> Man Freq Offset 0 Hz Scale Type	



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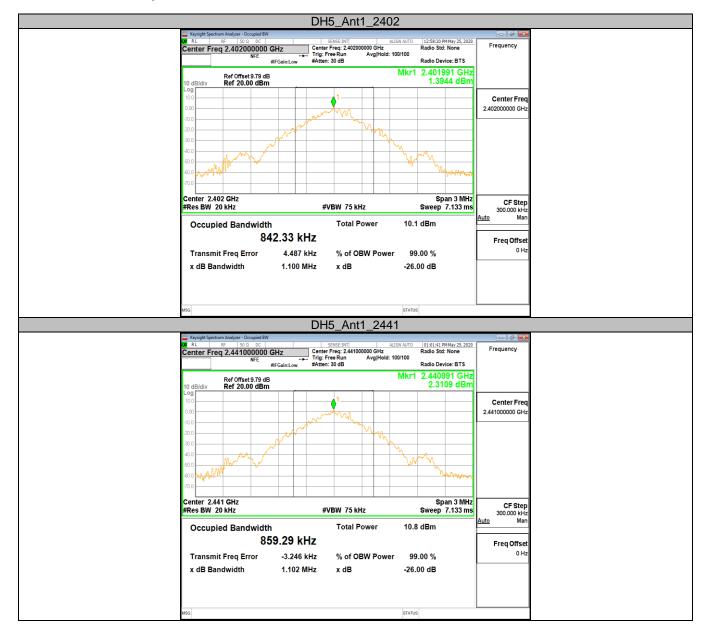
				Fage 60 01 114
	3DH5_Ar	nt1_2441		
Keysight Spectrum Analyzer - 1	Swept SA	ALTER ALTER ALTER ALTER PROFESSION		
Center Freq 2.4410		ALIGN AUTO 01:16:00 PMMay 2 #Avg Type: RMS TRACE 1 2 Avg[Hold: 100/100 TYPE MW DET P P	Frequency	
Ref Offsett 10 dB/div Ref 20.00	9.79 dB	ΔMkr3 1.179 I -0.378	Auto Tune	
10 dB/div Ref 20.00			Center Freq	
-10.0	12 mm mm		2.441000000 GHz	
-20.0		DL1-18	42 dBm Start Freq 2.439500000 GHz	
-400 -500	nt nt	Maria		
-70.0			2.442500000 GHz	
Center 2.441000 GH #Res BW 20 kHz	#VBW 68 kHz	Span 3.000 Sweep 2.200 ms (1001 NCTION FUNCTION WIDTH FUNCTION VAL	pts) 300.000 kHz	
DECENTIONE Filler Scale 1 N f 2 N f 3 A.1 f 4 5 6	X Y FU 2.440 421 GHz -18.528 dBm 2.441 000 GHz 1.585 dBm 1.179 MHz (Δ) -0.378 dB	NC HON FUNCTION WIDTH FUNCTION VAL	Freq Offset	
7 8 9 9			Scale Type	
10 11 < t			Log Lin	
MSG		STATUS		
	3DH5_Ar	nt1_2480		
Keysight Spectrum Analyzer - S R R R F S0	Swept SA	ALIGN AUTO 01:18:46 PM May 2		
Center Freq 2.4800		#Avg Type: RMS TRACE 12 Avg Hold: 100/100 TYPE MW DET P P	PPPP	
Ref Offset : 10 dB/div Ref 20.00	9.79 dB	∆Mkr3 1.155 I -0.431	Auto Tune	
Log 10.0 0.00 	2	ΔΩ, , Δ3Δ1	Center Freq 2.480000000 GHz	
-20.0			30 dBm Start Freq 2.478500000 GHz	
500	↓ ↓ ↓		Stop Freq 2.481500000 GHz	
Center 2.480000 GH #Res BW 20 kHz	#VBW 68 kHz	Span 3.000 Sweep 2.200 ms (1001	pts) 300.000 kHz	
1 Ν 1 Γ 2 Ν 1 Γ 3 Δ1 Γ Γ 4 Δ1 Γ (Δ) 4 5 6	2.479 427 GHz -17.438 dBm 2.479 994 GHz 2.703 dBm 1.155 MHz (Δ) -0.431 dB		Freq Offset 0 Hz	
7 8 9 9 10			Scale Type	
		STATUS	, Log <u>Lin</u>	
MSG		STATUS		



Appendix B: Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.84233	2401.583	2402.426		PASS
DH5	Ant1	2441	0.85929	2440.567	2441.426		PASS
		2480	0.87450	2479.554	2480.428		PASS
		2402	1.1514	2401.420	2402.572		PASS
3DH5	Ant1	2441	1.1431	2440.426	2441.569		PASS
		2480	1.1630	2479.416	2480.579		PASS

Test Graphs



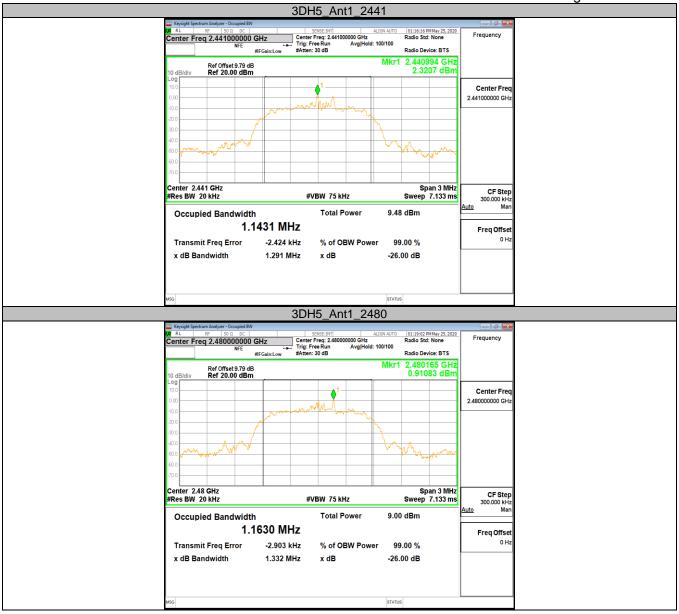


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Appendix C: Maximum Peak conducted output power Test Result

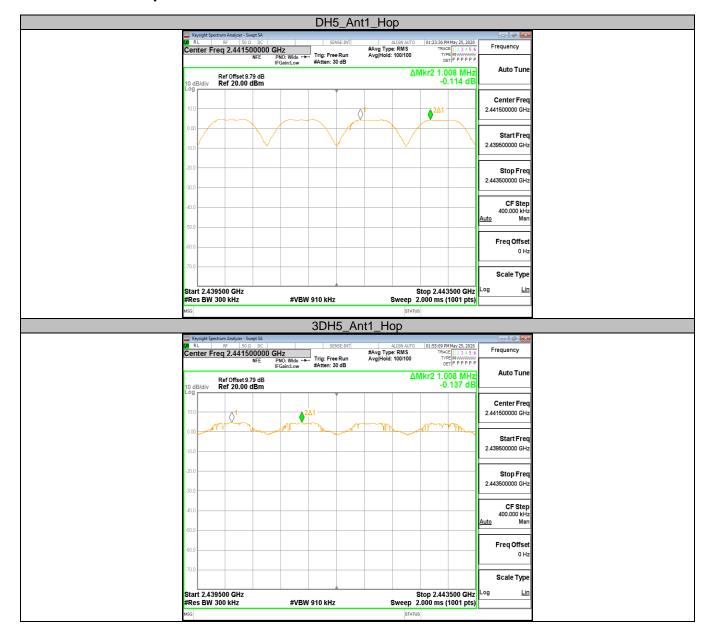
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.18	<=21	PASS
		2441	-0.80	<=21	PASS
		2480	-0.90	<=21	PASS
	Ant1	2402	0.21	<=21	PASS
3DH5		2441	-0.83	<=21	PASS
		2480	-0.87	<=21	PASS



Appendix D: Carrier frequency separation Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1.008	>=0.678	PASS
3DH5	Ant1	Нор	1.008	>=0.850	PASS

Test Graphs



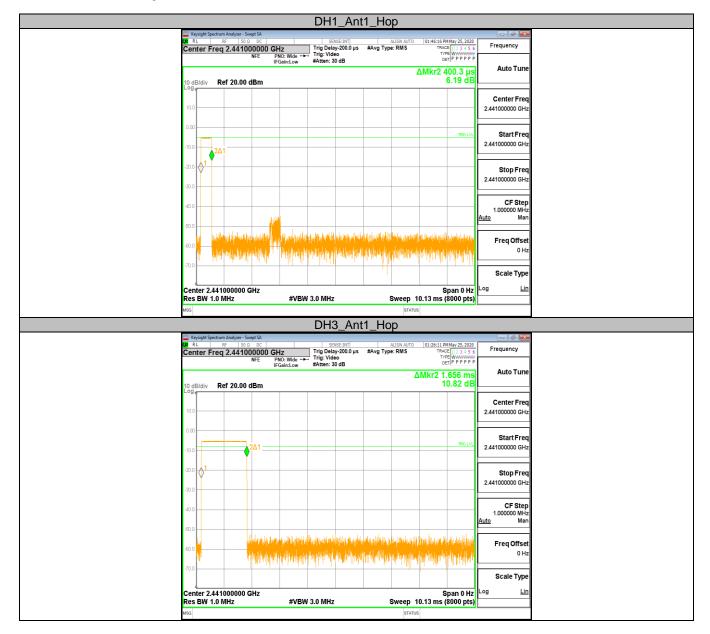


Appendix E: Time of occupancy Test Result

			FHSS Mode			
Test Mode	Antenna	Channel	BurstWidth [ms]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.40	0.128	<=0.4	PASS
DH3	Ant1	Нор	1.66	0.266	<=0.4	PASS
DH5	Ant1	Нор	2.90	0.309	<=0.4	PASS
3DH1	Ant1	Нор	0.41	0.131	<=0.4	PASS
3DH3	Ant1	Нор	1.66	0.266	<=0.4	PASS
3DH5	Ant1	Нор	2.91	0.310	<=0.4	PASS

			AFHSS Mode			
Test Mode	Antenna	Channel	BurstWidth [ms]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.40	0.064	<=0.4	PASS
DH3	Ant1	Нор	1.66	0.133	<=0.4	PASS
DH5	Ant1	Нор	2.90	0.155	<=0.4	PASS
3DH1	Ant1	Нор	0.41	0.066	<=0.4	PASS
3DH3	Ant1	Нор	1.66	0.133	<=0.4	PASS
3DH5	Ant1	Нор	2.91	0.155	<=0.4	PASS

Test Graphs





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											Fage 90 01 114
				DH5	Ant	1_Ho	p				
Keysight Spectrum Analyzer - Swept SA ALLON AUTO 01:43:58 PM May 25,2020 R L RF IS 0.0 DC SENSE:INT ALLON AUTO 01:43:58 PM May 25,2020 Center Freq 2.441000000 GHz Trip Oelay-200.0 µs #Avg Type: RMS Trace 1/2.4 % GM May 25,2020					- 3 💌						
Keysigin Sp	RF 50	Ω DC			SE:INT	4	LIGN AUTO	01:43:58 P	M May 25, 2020		
Center F	req 2.4410	000000 GHz	Z De Miliel	Trig Delay Trig: Video	-200.0 µs	#Avg Type	RMS	TY	CE 1 2 3 4 5 6 PE WWWWWW	Frequency	
		NFE PNO IFGa	D: Wide 🔸	#Atten: 30	dB			D	ETPPPPP		
							1	∆Mkr2 2	.904 ms	Auto Tune	
10 dB/div	Ref 20.00	dBm						1	5.47 dB		
Log											
										Center Freq	
10.0										2.441000000 GHz	
0.00									TRIG LVL	Start Freq	
-10.0			2∆1							2.441000000 GHz	
- 10.0											
-20.0											
1										Stop Freq	
-30.0										2.441000000 GHz	
-40.0										CF Step	
										1.000000 MHz <u>Auto</u> Man	
-50.0											
4			لللاسالات	المتدانية الألي	u hiter a	Augura	hiller	بالإراد إربادا و	ال عناسيا بل	Freq Offset	
-60.0										0 Hz	
1			1.00	of the left of the	a francis	制神	A MARINA A		The Party	0112	
-70.0				Total 1			- 1	• • • •			
										Scale Type	
Center 2	441000000	GHz							Span 0 Hz	Log <u>Lin</u>	
Res BW 1	1.0 MHz		#VBW	3.0 MHz		5	Sweep 1	10.13 ms	(8000 pts)		
MSG							STATU	IS			
				201	1 An	+1 ⊔c					
				3DH'	1_An	t1_Ho					
Keysight Sp	pectrum Analyzer - S	wept SA Ω DC					р	02:02:47 F	M May 25, 2020		
LXI RL	RF 50	Ω DC 000000 GHz	Z	SENS Trig Delay	SE:INT -200.0 µs			TRA	M May 25, 2020 CE 1 2 3 4 5 6	Frequency	
LXI RL	RF 50	Ω DC 000000 GHz NEF PNO): Wide 🔸	SENS Trig Delay	5E:INT -200.0 μs			TRA	M May 25, 2020 CE 1 2 3 4 5 6 PE WWWWWWW ET P P P P P P	Frequency	
LXI RL	RF 50	Ω DC 000000 GHz NEF PNO	Z D: Wide ↔ ain:Low	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWW ET P P P P P P 410.4 μs	Frequency Auto Tune	
Center F	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWWW ET P P P P P P	Frequency Auto Tune	
LXI RL	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWW ET P P P P P P 410.4 μs	Frequency Auto Tune	
Center F	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWW ET P P P P P P 410.4 μs	Frequency Auto Tune Center Freq	
Center F	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWW ET P P P P P P 410.4 μs	Frequency Auto Tune	
10 dB/div Log	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWW ET P P P P P P 410.4 μs	Frequency Auto Tune Center Freq	
Center F	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 1 2 3 4 5 6 PE WWWWWW ET P P P P P P 410.4 μs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq	
10 dB/div Log	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Auto Tune	
10 dB/div Log	RF 50 Freq 2.4410	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq	
10 dB/div Log	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz	
10 dB/div Log	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.441000000 GHz 2.441000000 GHz Stop Freq	
10 dB/div Log	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz	
20 RL Center F 10 dB/div 10.0 -10.0 -20.0 -30.0	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz	
20 RL Center F 10 dB/div 10.0 -10.0 -20.0	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq	
20 RL Center F 10 dB/div Log 10.0 -10.0 -20.0 -20.0 -40.0	RF 50 Freq 2.4410 Ref 20.00	Ω DC 1000000 GHz NFE PNO IFGa): Wide 🔸	SENS Trig Delay Trig: Video	5E:INT -200.0 μs		DD LIGN AUTO 2: RMS	TRA TY ΔMkr2	CE 123456 PPPPPP 410.4 µs 3.56 dB	Frequency Auto Tune Center Freq 2.44100000 GHz 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz CF Step	
00 RL Center F 10 dB/div 10.0 -10.0 -20.0 -20.0 -40.0 -50.0	2Δ1	dBm): Wide - → - in:Low	SEN4	se:int] -200.0 µs dB	#Avg Type	E RMS		TROLVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz	
00 RL Center F 10 dB/div 10.0 -10.0 -10.0 -20.0 -20.0 -40.0 -50.0	2Δ1	Ω DC 1000000 GHz NFE PNO IFGa): Wide - → - in:Low	SEN4	se:int] -200.0 µs dB	#Avg Type	E RMS		TROLVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz	
00 RL Center F 10 dB/div 10.0 -10.0 -20.0 -20.0 -40.0 -50.0	με 30 req 2.4410	A DC HAR PRODUCTION CHAR PRODUCTICA P): Wide - → - in:Low	SENE Trig Delay Trig: Videc #Atten: 30	dB	#Avg Type	E RMS		TROLVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz 2.441000000 GHz CF Step 1.000000 MHz Auto Man	
00 €L Center F 10 dB/div 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0	με 30 req 2.4410	dBm): Wide - → - in:Low	SENE Trig Delay Trig: Videc #Atten: 30	dB	#Avg Type	E RMS		TROLVL	Frequency Auto Tune Center Freq 2.441000000 GHz 2.441000000 GHz 3.00000 GHz 1.000000 GHz 1.000000 GHz 5.00000 GHz 1.000000 GHz 1.000000 GHz 5.00000 GHz 1.000000 GHz 1.00000 GHz 2.441000000 GHz 3.0000 GHz 3.00000 GHz 3.0000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.00000 GHZ 3.000000 GHZ 3.00000 GHZ 3.000000 GHZ 3.000000 GHZ 3.000000 GHZ 3.000000 GHZ 3.0000000 GHZ 3.00000000 GHZ 3.0000000 GHZ 3.000000000000 GHZ 3.000000000000000000000000000000000000	
00 RL Center F 10 dB/div 10.0 -10.0 -10.0 -20.0 -20.0 -40.0 -50.0	με 30 req 2.4410	A DC HAR PRODUCTION CHAR PRODUCTICA P): Wide - → - in:Low	SENE Trig Delay Trig: Videc #Atten: 30	dB	#Avg Type	E RMS		TROLVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz	
10 dB/div 10 dB/div 10.0 10	2Δ1	dBm dBm dBm dBm): Wide - → - in:Low	SENE Trig Delay Trig: Videc #Atten: 30	dB	#Avg Type	E RMS		TTOOLVL	Frequency Auto Tune Center Freq 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 2.441000000 GHz 0 CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz Scale Type	
Center 2. Conter F 10 dB/div 10 0 10 0	PF 50 req 2.4410 Ref 20.00 2∆1	dBm dBm dBm dBm	D: Wide	SENTING SERVICE SERVIC	dB	#Avg Type			100 LVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin	
Center 2. Center 2. Code de d	PF 50 req 2.4410 Ref 20.00 2∆1	dBm dBm	D: Wide	SENE Trig Delay Trig: Videc #Atten: 30	dB	#Avg Type	Sweep 1	TRA 0 ΔMkr2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	TTOOLVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin	
Center 2. Conter F 10 dB/div 10 0 10 0	PF 50 req 2.4410 Ref 20.00 2∆1	dBm dBm	D: Wide	SENTING SERVICE SERVIC	dB	#Avg Type		TRA 0 ΔMkr2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	100 LVL	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz Scale Type Log Lin	



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							Page 97 of 114
			3DH3_An	t1_Hop			
	Keysight Spectrum Analyzer - Swe	pt SA				- 6 💌	
	RL RF 50 Ω Center Freq 2.44100	0000 GHz	SENSE:INT Trig Delay-200.0 µs	#Avg Type: RMS	01:57:17 PM May 25, 2020 TRACE 1 2 3 4 5 6 TYPE W	Frequency	
		NFE PNO: Wide +++ IFGain:Low	Trig: Video #Atten: 30 dB		DET P P P P F		
				L	ΔMkr2 1.661 ms	Auto Tune	
	10 dB/div Ref 20.00 d	Bm			10.78 dB		
						Center Freq	
	10.0					2.441000000 GHz	
	0.00						
	Compared Street and Application				TRIG LVL	Start Freq 2.441000000 GHz	
	-10.0	Δ1				2.44 100000 0112	
	-20.0					Stop Freq	
						2.441000000 GHz	
	-30.0						
	-40.0					CF Step 1.000000 MHz	
						Auto Man	
	-50.0	Masha kata mana kata kata kata kata kata kata kata k	والمتحاجبة بالتحاليات	المتعادية المتعادية	Industria di damana		
	-60.0					Freq Offset 0 Hz	
	1 1	kales, altitud availet					
	-70.0					Scale Type	
		-					
	Center 2.441000000 G Res BW 1.0 MHz		3.0 MHz	Sweep 1	Span 0 Hz (8000 pts) 10.13	Log <u>Lin</u>	
	MSG			STATU			
			3DH5_An	t1 Hop			
	Keysight Spectrum Analyzer - Swe	pt SA				- 6 💌	
	RL RF 50 Ω Center Freq 2.44100	0000 GHz	SENSE:INT Trig Delay-200.0 µs	#Avg Type: RMS	01:55:51 PM May 25, 2020 TRACE 1 2 3 4 5 6 TYPE WWWWWWW	Frequency	
	,	NFE PNO: Wide +++ IFGain:Low	Trig: Video #Atten: 30 dB		DET P P P P P		
				1	ΔMkr2 2.911 ms		
	10 dB/div Ref 20.00 d	Bm			11.61 dB		
						Center Freq	
	10.0					2.441000000 GHz	
	0.00						
		n, balding baldin			TRIG LVL	Start Freq 2.441000000 GHz	
	-10.0	<u>2∆1</u>				2.441000000 0112	
	-20.0					Stop Freq	
	≬ 1					2.441000000 GHz	
	-30.0						
	-40.0					CF Step 1.000000 MHz	
						Auto Man	
	-50.0	المرابعة والمراجع	an ta aka ta bilinte ta a	in , al den sait de matric	Willia have a logal the		
	-60.0					Freq Offset 0 Hz	
	1	I should be the			i filosofili at Mala		
	-70.0					Scale Type	
1							
	Contor 3 444000000 C	U-3			C	Log Lin	
	Center 2.441000000 G Res BW 1.0 MHz		3.0 MHz	Sweep 1	Span 0 Hz 10.13 ms (8000 pts)	Log <u>Lin</u>	
			3.0 MHz	Sweep 1	10.13 ms (8000 pts)	Log <u>Lin</u>	



Appendix F: Number of hopping channels Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	>=15	PASS
3DH5	Ant1	Нор	79	>=15	PASS



Test Graphs





Appendix G: Band edge measurements Test Result

Test Mode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	3.47	-50.09	<=-16.54	PASS
	Apt1	High	2480	4.88	-49.57	<=-15.12	PASS
DHD	DH5 Ant1	Low	Hop_2402	3.07	-48.9	-16.93	PASS
		High	Hop_2480	5.09	-49.84	-14.91	PASS
		Low	2402	3.51	-50.75	<=-16.49	PASS
2045	A not 1	High	2480	4.74	-50.04	<=-15.26	PASS
3000	3DH5 Ant1	Low	Hop_2402	0.55	-50.92	-19.45	PASS
		High	Hop_2480	5.10	-50.24	-14.9	PASS

Test Graphs

		DH5_Ant1	Low 2402			
	eysight Spectrum Analyzer - Swept SA	SENSE:INT		10-59-24 04-4 05 2020		
Cen	RL RF 50 Ω DC nter Freq 2.352500000 G NFE		#Avg Type: RMS Avg Hold: 300/300	12:58:34 PM May 25, 2020 TRACE 1 2 3 4 5 6 TYPE M DET P P P P P P	Frequency	
10.4	Ref Offset 9.79 dB IB/div Ref 20.00 dBm	I Gant Low	Mkr5	2.376 020 GHz -50.088 dBm	Auto Tune	
Log 10.0					Center Freq	
0.00				DL1 -16.54 oBm	2.352500000 GHz	
-20.0 -30.0					Start Freq 2.300000000 GHz	
-40.0 -50.0	∧4		5		Cton From	
-60.0 -70.0					Stop Freq 2.40500000 GHz	
	rt 2.30000 GHz es BW 100 kHz	#VBW 300 kHz		Stop 2.40500 GHz .867 ms (1001 pts)	CF Step 10.500000 MHz	
1 1	MODE TRC SCL X	Y F	INCTION FUNCTION WIDTH		<u>Auto</u> Man	
2 3 4 5	N 1 f 2.400 0 N 1 f 2.390 0 N 1 f 2.310 0	00 GHz -52.064 dBm 00 GHz -53.362 dBm 00 GHz -53.018 dBm			Freq Offset 0 Hz	
6 7 8		20 012 -00.000 0Dm			Scale Type	
9 10 11					Log <u>Lin</u>	
A MSG			STATUS	•		
		DH5_Ant1_	Ligh 2480	1		
	eysight Spectrum Analyzer - Swept SA				- 2 ×	
(X) R	RF 50Ω DC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	01:07:37 PM May 25, 2020	Frequency	
	nter Freq 2.510000000 G	PNO: Fast Trig: Free Run FGain:Low #Atten: 30 dB	#Avg Type. Kino	TRACE 1 2 3 4 5 6 TYPE M WWWWW		
661	NFE	FGain:Low #Atten: 30 dB	Avg Hold: 300/300	DET PPPPP	Auto Turce	
10 d	Ref Offset 9.79 dB IB/div Ref 20.00 dBm	FGain:Low #Atten: 30 dB		оет/РРРРРР 4 2.506 08 GHz -49.573 dBm	Auto Tune	
10 d Log 10.0	Ref Offset 9.79 dB Bldiv Ref 20.00 dBm	FGaintLow #Atten: 30 0B		DET PPPPP 4 2.506 08 GHz	Center Freq	
10 d 10 0 10 0 -10 0	Ref Offset 9.79 dB IB/div Ref 20.00 dBm	Figain:Low #Atten: 30 0D		DET PPPPP 4 2.506 08 GHz	Center Freq 2.51000000 GHz	
10 d 100 100 -100 -300 -300	BIdiv Ref 20.00 dBm	Faintow Patter: 30 0D		4 2.506 08 GHz -49.573 dBm	Center Freq	
10 d 10 d 10 0 10 0 10 0 10 0 10 0 10 0	Ref Offset 9.79 dB	Faintow Paten: 30 00		24.2.506 08 GHz -49.573 dBm 24.1512 dbm	Center Freq 2.51000000 GHz Start Freq 2.470000000 GHz	
10 d 10.0 -10.0 -20.0 -30.0 -40.0	Ref Offset 979 dB Bldiv Ref 20.00 dBm		Mkr	24.2.506 08 GHz -49.573 dBm 24.1512 dbm	Center Freq 2.51000000 GHz Start Freq	
10 d Log 100 -000 -000 -000 -000 -000 -000 -000	Ref Offset 979 dB Bldiv Ref 20.00 dBm			24.2.506 08 GHz -49.573 dBm 24.1512 dbm	Center Freq 2.510000000 GHz Start Freq 2.470000000 GHz Stop Freq 2.550000000 GHz CF Step 8.0000000 MHz	
10 d Log 100 -100 -300 -300 -400 -400 -400 -400 -400 -4	Ref Offset 9.79 dB IBIdity Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 300 kHz		25.55000 GHz 000 ms (1001 pts)	Center Freq 2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step	
10 d 10 0 10 0 10 0 10 0 10 0 10 0 10 0	Ref Offset 9.79 dB Bldiv Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 300 kHz	Mkr.	25.55000 GHz 000 ms (1001 pts)	Center Freq 2.510000000 GHz Start Freq 2.470000000 GHz Stop Freq 2.550000000 GHz CF Step 8.0000000 MHz	
10 d 10 d 000 -100 -300 -300 -300 -300 -300 -300	Ref Offset 9.79 dB IBIdity Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 300 kHz	Mkr.	25.55000 GHz 000 ms (1001 pts)	Center Freq 2.510000000 GHz Start Freq 2.470000000 GHz Stop Freq 2.550000000 GHz CFF Step 8.000000 MHz Auto Freq Offset 0 Hz	
10 d 10 0 10 0 10 0 10 0 10 0 10 0 10 0	Ref Offset 9.79 dB IBIdity Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	#VBW 300 kHz	Mkr.	25.55000 GHz 000 ms (1001 pts)	Center Freq 2.510000000 GHz Start Freq 2.470000000 GHz Stop Freq 2.55000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset	



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		Anti Low L	Jan 240	10		
		5_Ant1_Low_H	$10p_240$)2		
Keysi RL	ight Spectrum Analyzer - Swept SA	actives tard	41704 41777		- 3 💌	
	er Freq 2.355000000 GHz	SENSE:INT #Ave	ALIGN AUTO g Type: RMS	01:21:23 PM May 25, 2020 TRACE 1 2 3 4 5 6	Frequency	
Cento	NFE PNO: Fast ->		Hold: 500/500	TRACE 1 2 3 4 5 6 TYPE M		
	NFE PNO: Fast ↔ IFGain:Low	#Atten: 30 dB		DET P P P P P		
		,	Mkr	5 2.379 09 GHz	Auto Tune	
10 dBi	Ref Offset 9.64 dB /div Ref 20.00 dBm			-48.895 dBm		
		V		10.000 0.011		
10.0 -				{1	Center Freq	
				Y.		
0.00 -				lákutott.	2.355000000 GHz	
-10.0 -				DL1 /16 s0 oBm		
-20.0				DLY /16.53/opm		
					Start Freq	
-30.0 -					2.30000000 GHz	
-40.0 -			4 5	-2 -2		
-50.0 -	()*		Y	2 2 2 2 2 2		
- 0.02	and a second and a second and the second and a second and a second and the second and the second and the second	- and	Change Contraction of the second	hand the second of the	Stop Freq	
00.0					2.41000000 GHz	
-70.0 -		+				
Start	2.30000 GHz			Stop 2.41000 GHz	CF Step	
#Res	BW 100 kHz #VBW	V 300 kHz	Sweep 4.	.067 ms (1001 pts)	11.000000 MHz	
MKRI M	DDE TRC SCL X	Y FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man	
1 1	N 1 f 2.403 07 GHz	3.065 dBm				
2 3 4	N 1 f 2.400 00 GHz N 1 f 2.390 00 GHz	-52.397 dBm -52.723 dBm			Freq Offset	
3	N 1 f 2.390 00 GHz N 1 f 2.310 00 GHz	-52./23 dBm -53.377 dBm			0 Hz	
5	N 1 f 2.379 09 GHz	-48.895 dBm		E	0 HZ	
6						
8					Scale Type	
9						
10 11					Log <u>Lin</u>	
				· · ·		
MSG			STATUS			
muu						
	DH5	_Ant1_High_H	Hop 24	80		
Kenter Kenter	ight Spectrum Analyzer - Swept SA		. –		- 3 ×	
UN RL	RF 50Ω DC	SENSE:INT	ALIGN AUTO	01:45:34 PM May 25, 2020		
			g Type: RMS Hold:>500/500	TRACE 1 2 3 4 5 6 TYPE M	Frequency	
	NFE PNO: Fast IFGain:Low	#Atten: 30 dB	Hold:>500/500	DET P P P P P		
	ii Gameon		Mice		Auto Tune	
	Ref Offset 9.79 dB		IVIKI4	4 2.521 04 GHz -49.843 dBm		
	Rei Oliset 3.73 ub			-49.845 OBMI		
10 dB	Idiv Ref 20.00 dBm					
	Idiv Ref 20.00 dBm	T T				
Log 10.0 -	/div Ref 20.00 dBm				Center Freq	
Log					Center Freq 2.51000000 GHz	
Log 10.0 -	/div Ref 20.00 dBm					
Log 100 - 0.00 - -100 -	/div Ref 20.00 dBm			DL1 -14 91 dBm	2.51000000 GHz	
Log 100 600 -100 -200	/div Ref 20.00 dBm				2.51000000 GHz Start Freq	
Log 100 - 0.00 - -100 -	/div Ref 20.00 dBm				2.51000000 GHz	
Log 1 10.0 .000 .1000 .200			4		2.51000000 GHz Start Freq	
Log 1000 -000 -300 -300 -400			4		2.51000000 GHz Start Freq	
Log - 100 - -100 - -200 - -300 - -400 - -500 -	1 3000 dBm 1 1 1 1 1 1		4		2.51000000 GHz Start Freq 2.47000000 GHz	
Log 1100 0.00 -200 -300 -400			4		2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq	
Log 100 .000 .000 .300 .400 .500		3	4		2.51000000 GHz Start Freq 2.47000000 GHz	
Log 100 00 -000 -000 -000 -000 -000 -000 -			4	0.1 -14 91 db6	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz	
Log 100 000 -000 -000 -000 -000 -000 -000	2.47000 GHz			E17-1497 abor	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step	
Log 1100 1100 1100 1000 1000 1000 1000 10	2.47000 GHz	3 3 V 300 kHz		0.1 -14 91 db6	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step 8.000000 MHz	
Log 1100 1100 1000 1000 1000 1000 1000 10	2.47000 GHz	V 300 kHz	Sweep 3.	511-14 97 abn 	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step	
Log 100 000 -000 -000 -000 -000 -000 -000	2.47000 GHz BW 100 kHz #VBW	V 300 kHz	Sweep 3.	E17-1497 abor	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step 8.000000 MHz	
Log 100 00 -00 -00 -00 -00 -00 -00 -00 -00	Vidiv Ref 20.00 dBm 01 0 01 0 02 03 03 0 04 0	V 300 kHz V 300 kHz V FUNCTION 5.091 dBm -52.590 dBm	Sweep 3.	511-14 97 abn 	2.51000000 GHz Start Freq 2.47000000 GHz 2.55000000 GHz CF Step 8.00000 MHz <u>Auto</u> Man	
Log 100 000 	Image: state	V 300 kHz V 300 kHz 5.091 dBm -52.500 dBm -52.705 dBm	Sweep 3.	511-14 97 abn 	2.51000000 GHz Start Freq 2.47000000 GHz 2.55000000 GHz CF Step 8.000000 MHz <u>Auto</u> Man Freq Offset	
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Log 100 00 -00 -00 -00 -00 -00 -00 -00 -00	Image: state	V 300 kHz V 300 kHz 5.091 dBm -52.500 dBm -52.705 dBm	Sweep 3.	511-14 97 abn 	2.51000000 GHz Start Freq 2.47000000 GHz 2.55000000 GHz CF Step 8.000000 MHz <u>Auto</u> Man Freq Offset	
Log 100 100 100 100 100 100 100 100 100 10	Image: state	V 300 kHz V 300 kHz 5.091 dBm -52.500 dBm -52.705 dBm	Sweep 3.	511-14 97 abn 	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step 8.000000 MHz <u>Auto</u> Man Freq Offset 0 Hz	
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Log 100 -000 -000 -000 -000 -000 -000 -000	Image: state	V 300 kHz V 300 kHz 5.091 dBm -52.500 dBm -52.705 dBm	Sweep 3.	511-14 97 abn 	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step 8.000000 MHz <u>Auto</u> Man Freq Offset 0 Hz	
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Log 100 -000 -000 -000 -000 -000 -000 -000	Image: Second	V 300 kHz V 300 kHz 5.091 dBm -52.500 dBm -52.705 dBm	Sweep 3.	C1.1497865 C1.1497865 Stop 2.55000 GHz 000 ms (1001 pts)	2.51000000 GHz Start Freq 2.47000000 GHz Stop Freq 2.55000000 GHz CF Step 8.000000 MHz <u>Auto</u> Man Freq Offset 0 Hz Scale Type	



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3DH5_Ant1	_Low_2402	
Keysight Spectrum Analyzer - Swept SA		
V RL RF 50 Ω DC SENSE:INT	ALIGN AUTO 01:10:36 PM May 25, 2020 #Avg Type: RMS TRACE 1 2 3 4 5 6 Frequence	y l
Center Freq 2.352500000 GHz NFE PNO: Fast + Trig: Free Run IFGain:Low #Atten: 30 dB	AvaiHold: 300/300 TYPE MWWWWW	
IFGain:Low #Atten: 30 dB		Tuna
Ref Offset 9.79 dB	WKI5 2.376 230 GHZ	i unc
Ref Offset 9.79 dB 10 dB/div Ref 20.00 dBm	-50.752 dBm	_
10.0	Center	Free
0.00	2.35250000	
-10.0	2.35250000	
	DL1 -16.49 dBm	
-20.0	Start	Freq
-30.0	2.3000000	0 GHz
-40.0	5 03 02	
-50.0 - The stand of the second the second strand of the second strand of the second strand of the second strand of the second strand s		From
-60.0	2.40500000	
-70.0	2.40500000	0.0112
Start 2.30000 GHz #Res BW 100 kHz #VBW 300 kHz	Stop 2.40500 GHz CF Sweep 3.867 ms (1001 pts) 10.500000	Step
	Auto	Man
NKR MODE TRC Scl. X Y F 1 N 1 f 2.402 060 GHz 3.514 dBm	UNCTION FUNCTION WIDTH FUNCTION VALUE	_
2 N 1 f 2.400 000 GHz -51.203 dBm	FregO	Iffset
3 N 1 f 2.390 000 GHz -53.493 dBm 4 N 1 f 2.310 000 GHz -55.121 dBm	Frequ	0 Hz
5 N 1 f 2.376 230 GHz -50.752 dBm	=	
7		7.00
9	Scale	туре
10 11	Log	Lin
۲	*	
MSG	STATUS	
	_High_2480	
Keysight Spectrum Analyzer - Swept SA RL RF S0 Ω DC SENSE:INT	ALIGN AUTO 01:19:16 PM May 25, 2020	
Center Freq 2.510000000 GHz	#Avg Type: RMS TRACE 1 2 3 4 5 6 Frequence	у У
NFE PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB		
Ref Offset 9.79 dB	Mkr4 2.534 40 GHz Auto	Tune
10 dB/div Ref 20.00 dBm	-50.044 dBm	
Log		
	Center	
0.00	2.51000000	0 GHz
-10.0	DL1 -15 28 dBm	=
-20.0	Start	Freq
-30.0	2.47000000	
-40.0	4	
50.0 January Augusting Stranger		
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-60.0	Stop	
a provide an addition of the state of the st	Manual 2.5500000	
-60.0	2.5500000	0 GHz
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400 0 700 0 Start 2.47000 GHz #Res BW 100 KHz #VBW 300 kHz	Stop 2.55000 GHz CF	0 GHz Step
400 0 700 0 Start 2.47000 GHz #Res BW 100 KHz #VBW 300 kHz	Stop 2.55000 GHz Sweep 3.000 ms (1001 pts) Auto	D GHz Step MHz Man
480 0	Stop 2.5500000 Stop 2.5500000Hz Sweep 3.000 ms (1001 pts)	D GHz Step D MHz Man Iffset
x x	Stop 2.55000 GHz Sweep 3.000 ms (1001 pts) Auto	D GHz Step MHz Man
4000	Stop 2.55000 GHz 2.55000000 Stop 2.55000 GHz 8.000000 Sweep 3.000 ms (1001 pts) 4.000 UNCTION FUNCTION WATE	0 GHz Step Man Man 0 Hz
400 0 70 0 70 0 Start 2.47000 GHz #VBW 300 kHz #Res BW 100 kHz #VBW 300 kHz 1 N 1 f 2.480 00 GHz 4.730 dBm 3 N 1 f 2.680 00 GHz 53.653 dBm 3 N 1 f 2.650 00 GHz 53.653 dBm 6 N 1 f 2.654 40 GHz 50.044 dBm 6 7 6 6	Stop 2.55000 GHz Sweep 3.000 ms (1001 pts) Auto	0 GHz Step Man Man 0 Hz
480 0 70.0 70.0 Start 2.47000 GHz #VBW 300 kHz #Res BW 100 kHz #VBW 300 kHz 1 N 1 f 2.480 00 GHz 4.739 dBm 2 N 1 f 2.483 80 GHz 4.53.663 dBm 3 N 1 f 2.600 00 GHz 53.663 dBm 6 N 1 f 2.634 40 GHz -50.044 dBm 7 R 9 9 9	Stop 2.55000 GHz Sweep 3.000 ms (1001 pts) UNITION FUNCTION WAUTH FUNCTION VALUE Scale	D GHz Step Man Man Man Man Tffset 0 Hz Type
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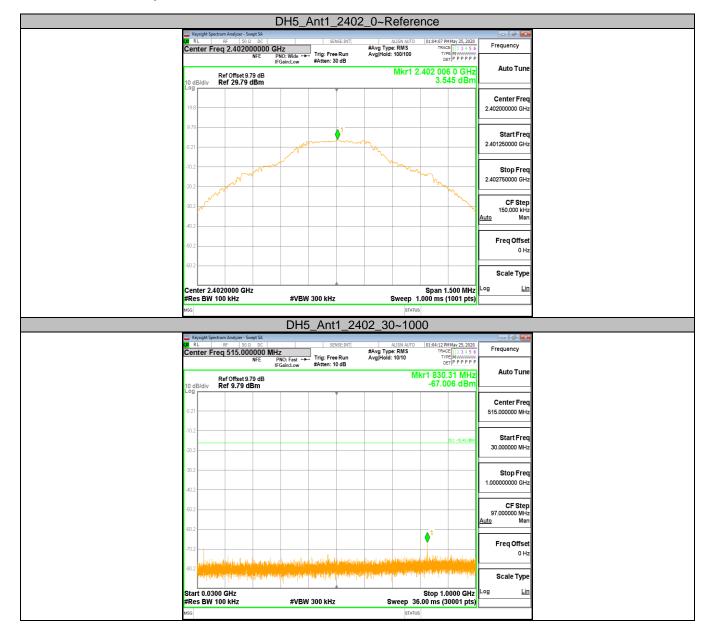
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Start Freq 2.1000000 GHz Start Z.30000 GHz Start Z.30000 GHz Start Z.30000 GHz Start Z.30000 GHz Start Z.30000 GHz Start Z.30000 GHz Start Z.3000 GHz Start Z.47000 GHz Start
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4 N 1 2.330 99 GHz -32.276 dBm 0 Hz 9
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BUDGE Start Freq 2.51000000 GHz Ref Offset 5.79 dB 10 dB
Start 2.47000 GHz Start 2.47000
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M N FF So 0 oc Sense:Int ALLIGN AUTO Dis2747 PMilly 25,2020 Frequency M NFE PHO: Fast (Saludow) Trig: Free Run Matter: 30 dB Aug/Hold>>500:500 Trig: Free RNS Trig: Free RNS Frequency Auto Tune 10 dB/div Ref Offset 9.79 dB
Center Pred 2:51000000 GHz Trig: Free Run Productor Augiticiz:500500 Trig: Free Run Productor Augiticiz:500500 Ref Offset 39:3 dB Mkr4 2:509 04 GHz Auto Tune 00 1 -50.241 dBm Center Freq 251000000 GHz 251000000 GHz Center Freq 00 -50.241 dBm Start Freq 00 -50.241 dBm Center Freq 251000000 GHz -50.241 dBm Start Freq 00 -50.241 dBm -50.241 dBm 00 -2.5000000 GHz -50.241 dBm 00 <td< td=""></td<>
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O dBidiv Ref 20.00 dBm -50.241 dBm 100 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 1 2 2 2 3 1 <
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100 01/1/1/00/04 01/1/1/00/05 01/1/1/00/05 300 01/1/1/00/05 01/1/1/00/05 01/1/1/00/05 400 01/1/00/05 01/1/00/05 01/1/00/05 500 01/1/00/05 01/1/00/05 01/1/00/05 500 01/1/00/05 01/1/00/05 01/1/00/05 500 01/1/00/05 01/1/00/05 01/1/00/05 500 01/1/00/05 01/1/00/05 01/1/00/05 500 01/1/00/05 01/1/00/05 01/1/00/05 500 01/1/00/05 01/1/00/05 01/1/00/05 51art 2.470000 GHz #VBW 300 kHz Sweep 3.000 ms (100 1 pt) 0.0000000 MHz
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300 300 300 4 247000000 GHz 400 4 4 500 500 500 4 4 500 500 500 4 500 500 500 500 500 500 500 500 500 500 500 500 500 700 500 500 500 600 700 500 500 600 600 8tart 2.47000 GHz #VBW 300 KHz Sweep 3.000 ms (100 1 pts) 8.000000 MHz
300 2.47000000 GHz 400 2.47000000 GHz 500 2.5000000 GHz 700 5tart 2.47000 GHz Start 2.47000 GHz \$top 2.55000 GHz #Res BW 100 KHz #VBW 300 KHz \$weep 3.000 ms (100 pts)
40.0 2 3 4 Stop Freq 60.0 2 3 4 Stop Freq 70.0 2 5 5 5 Start 2.47000 GHz #VBW 300 kHz Stop 2.55000 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 3.000 ms (100 thz) 8.000000 MHz
Stop Freq 2.5000000 GHz #Res BW 100 KHz #VBW 300 KHz Sweep 3.000 ms (100 pts) 8.0000000 MHz
Stop Freq Stop Freq 250000000 GHz 250000000 GHz Start 2.47000 GHz Stop 2.55000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 3.000 ms (1001 pts)
30.0 2.55000000 GHz 70.0 Start 2.47000 GHz Start 2.47000 GHz Stop 2.55000 GHz #Res BW 100 KHz #VBW 300 kHz Sweep 3.000 ms (100 pts) 8.000000 MHz
Start 2.47000 GHz Stop 2.55000 GHz CF Step #Res BW 100 kHz #VBW 300 kHz Sweep 3.000 ms (1001 pts) 8.000000 MHz
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#Res BW 100 kHz #VBW 300 kHz Sweep 3.000 ms (1001 pts) 8.000000 MHz
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1 N 1 f 2474 00 GHz 5103 dBm
1 N 1 f 2474 00 GHz 5.103 dBm 2 N 1 f 2483 50 GHz -52.513 dBm 3 N 1 f 2.500 00 GHz -52.52 dBm Freq Offset
4 N 1 f 2.509 04 GHz -50.241 dBm 0 Hz
5
67
7 8 Scale Type
7 8 9 10 Scale Type
7 8 9 10 11
7 8 9 10



Appendix H: Conducted Spurious Emission Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
			Reference	3.55	3.55		PASS
		2402	30~1000	30~1000	-67.006	<=-16.455	PASS
			1000~26500	1000~26500	-54.859	<=-16.455	PASS
			Reference	4.33	4.33		PASS
DH5	DH5 Ant1	2441	30~1000	30~1000	-61.15	<=-15.669	PASS
			1000~26500	1000~26500	-56.582	<=-15.669	PASS
		2480	Reference	4.78	4.78		PASS
			30~1000	30~1000	-69.211	<=-15.223	PASS
			1000~26500	1000~26500	-55.976	<=-15.223	PASS
			Reference	2.75	2.75		PASS
		2402	30~1000	30~1000	-71.229	<=-17.253	PASS
			1000~26500	1000~26500	-57.419	<=-17.253	PASS
			Reference	4.23	4.23		PASS
3DH5	Ant1	2441	30~1000	30~1000	-72.587	<=-15.771	PASS
			1000~26500	1000~26500	-57.324	<=-15.771	PASS
			Reference	2.65	2.65		PASS
		2480	30~1000	30~1000	-69.635	<=-17.355	PASS
			1000~26500	1000~26500	-60.274	<=-17.355	PASS

Test Graphs





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			[DH5_	Ant1	2402	200	0~26	500			
	ight Spectrum	n Analyzer - Sw	ept SA			_					- 6 🔼	
CXI RL	1	RF 50 Ω	DC		SEN	SE:INT		ALIGN AUTO	01:04:35 PI	M May 25, 2020		
Cent	er Freq	13.750	000000	GHz			#Avg Type	e: RMS	TRAC	E 1 2 3 4 5 6 E M T P P P P P P	Frequency	
			NEE P	PNO: Fast 😁	Trig: Free	Run	Avg Hold:	10/10	TYP			
			IF	FGain:Low	#Atten: 10) dB					A	
	Re	ef Offset 9.	79 dB					Mkr	1 2.399	95 GHz	Autorune	
10 dB	ídiv Re	ef 9.79 d	Bm						-54.8	59 dBm		
Log Г												
											Center Freq	
-0.21											13.750000000 GHz	
											10.7000000000000	
-10.2 -											Start Freq	
										DL1 -16.45 dBm		
-20.2											1.000000000 GHz	
-30.2												
000.2											Stop Freq	
											26.50000000 GHz	
-40.2			-	-							L	
											07.01	
-50.2	1										CF Step 2.55000000 GHz	
	Y										Auto Man	
-61.2											Man Man	
-00.2											L	
	<u> </u>							الا	المرجبة والمرجبة	a tangan sa ka ka	Freq Offset	
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-80.2			-									
											Scale Type	
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Ctort									Stop 2	6.50 GHz	Log <u>Lin</u>	
ວເລາເ	1.00 GH	IZ										
#Res	1.00 GF BW 100	iz) kHz		#VBV	/ 300 kHz		S	weep 93	8.0 ms (3	0001 pts)		
#Res	1.00 GF BW 100	lz) kHz		#VBV	/ 300 kHz		S	weep 93	8.0 ms (3	0001 pts)		
#Res	1.00 GF BW 100	lz) kHz						STATUS	8.0 ms (3	0001 pts)		
#Res	1.00 GF BW 100	iz) kHz	[2441	s _0~R	STATUS	8.0 ms (3	0001 pts)		
#Res ^{MSG}	BW 100) kHz				2441		STATUS	8.0 ms (3	0001 pts)		
#Res	BW 100	n Analyzer - Sw	ept SA	DH5_	Ant1_	2441	_0~R	STATUS efere	8.0 ms (3 NCE	0001 pts)		
#Res	BW 100	n Analyzer - Sw	ept SA DC 00000 Gł	DH5_	Ant1_	SE:INT	_0~R	STATUS efere ALIGN AUTO E: RMS	8.0 ms (3 NCE	0001 pts)		
#Res	BW 100	n Analyzer - Sw	ept SA DC DOOOO GI NFE P	DH5_, Hz ™O: Wide →	Ant1	SE:INT	_0~R	STATUS efere ALIGN AUTO E: RMS	8.0 ms (3 NCE	0001 pts)		
#Res	ight Spectrum	n Analyzer - Sw RF 50 Ω 1 2.44100	ept SA DC DOOOO GH NFE P IF	DH5_	Ant1_	SE:INT	_0~R #Avg Type Avg Hold:	STATUS efere Align Auto e: RMS 100/100	8.0 ms (3 NCC 01:05:01 PI TRAC TYR DE	MMay 25, 2020	Frequency	
#Res MSG (x) RL Cent	BW 100	0 kHz n Analyzer - Sin RF 50 Ω 2.44100 ef Offset 9.7	ept SA DC DOOOO GH NFE P IF 79 dB	DH5_, Hz ™O: Wide →	Ant1	SE:INT	_0~R #Avg Type Avg Hold:	STATUS efere Align Auto e: RMS 100/100	8.0 ms (3 NCC 01:05:01 PI TRAC TYS 00 441 00	10001 pts) Мау 25, 2020 Е 1 2 3 4 5 6 Е М У Р Р Р Р Т Р Р Р Р Р Р 3 0 GHz	Frequency	
#Res MSG WRL Cent	BW 100	n Analyzer - Sw RF 50 Ω 1 2.44100	ept SA DC DOOOO GH NFE P IF 79 dB	DH5_, Hz ™O: Wide →	Ant1	SE:INT	_0~R #Avg Type Avg Hold:	STATUS efere Align Auto e: RMS 100/100	8.0 ms (3 NCC 01:05:01 PI TRAC TYS 00 441 00	MMay 25, 2020	Frequency	
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#Res MSG MSG RL Cent 10 dB Log 19.8 -	BW 100	0 kHz n Analyzer - Sin №F 50 Ω 2.44100 ef Offset 9.1	ept SA DC DOOOO GH NFE P IF 79 dB	DH5_, Hz ™O: Wide →	Ant1	SE:INT	_0~R #Avg Type Avg Hold:	STATUS efere Align Auto e: RMS 100/100	8.0 ms (3 NCC 01:05:01 PI TRAC TYS 00 441 00	10001 pts) Мау 25, 2020 Е 1 2 3 4 5 6 Е М У Р Р Р Р Т Р Р Р Р Р Р 3 0 GHz	Frequency Auto Tune	
#Res MSG 20 RL Cent 10 dB Log 19.8 - 9.79 -	BW 100	0 kHz n Analyzer - Sin №F 50 Ω 2.44100 ef Offset 9.1	ept SA DC DOOOO GH NFE P IF 79 dB	DH5_, Hz ™O: Wide →	Ant1	SE:INT	_0~R #Avg Type Avg Hold:	STATUS efere Align Auto e: RMS 100/100	8.0 ms (3 NCC 01:05:01 PI TRAC TYS 00 441 00	10001 pts) Мау 25, 2020 Е 1 2 3 4 5 6 Е М У Р Р Р Р Т Р Р Р Р Р Р 3 0 GHz	Frequency Auto Tune Center Freq 2.44100000 GHz	
#Res MSG MSG RL Cent 10 dB Log 19.8 -	BW 100	0 kHz n Analyzer - Sin №F 50 Ω 2.44100 ef Offset 9.1	ept SA DC DOOOO GH NFE P IF 79 dB	DH5_, Hz ™O: Wide →	Ant1	SE:INT	_0~R #Avg Type Avg Hold:	STATUS efere Align Auto e: RMS 100/100	8.0 ms (3 NCC 01:05:01 PI TRAC TYS 00 441 00	10001 pts) Мау 25, 2020 Е 1 2 3 4 5 6 Е М У Р Р Р Р Т Р Р Р Р Р Р 3 0 GHz	Frequency Auto Tune Center Freq 2.44100000 GHz Start Freq	
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	ight Spectrun	n Analyzer - Sw		DH5_	Ant1_	_2441		0~26	500	MMay 25, 2020		
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DH5_Ant1_2480_0~Reference Image: Set	 Frequency Auto Tune Center Freq 2.48000000 GHz Start Freq	Regular Spectrum Analyzer - Surgt SA Schede: INT ALION AUTO (01.07.48 DM May 25, 2020) R. A. RF IND 0.0 CC Schede: INT ALION AUTO (01.07.48 DM May 25, 2020) Frequency Center Freq 2.480000000 GHz Trig: Free Run #Avg Type: RMS Trig: Free Run #Avg Type: RMS Frequency MEC INFC PINC: Wide ++ Trig: Free Run #Avg Type: RMS Trig: Free Run #Avg Type: RMS NEE PINC: Wide ++ Trig: Free Run #Avg Type: RMS Trig: Free Run #Avg Type: RMS Trig: Free Run Auto Tune 10 dB/div Ref Offset 9.79 dB Mkr1 2.479 997 0 GHz Auto Tune Auto Tune 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 10	Keydyld Spectrum Andyner - Swegt SA SENSE INT ALLOW AUTO Gal LOY AUTO Gal LOY AUTO Gal LOY AUTO Frequency Center Freq 2.480000000 GHz IFGal Low Autor NE PNO: Wide → IFGal Low Autor Trig: Free Run AvgiHold: 100100 Mkr1 2.479 997 0 GHz 4.777 dBm Auto Tune 10 4B/div Ref Offset 979 dB Ref 29.79 dBm Mkr1 2.479 997 0 GHz 4.777 dBm Auto Tune 19 8 19 8 Center Freq 2.480000000 GHz Center Freq 2.48000000 GHz	DH5_Ant1_2480_0~Reference		DH5 Ant1 2480 0~Reference	
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Center Freq 515.00000 MHz #Avg Type: RMS Trace[1:2:3:5:5] Frequency Infection Colspan="2">Trig: Free Run IFGainLow Avg Type: RMS Trace[1:2:3:5:5] Frequency Ref Offset 9.79 dB Mkr1 829.34 MHz Log Iddition Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan= 2" Colspan= 2" Colspan="2" Colspan= 2" Colspan="2" <	Frequency Auto Tune Center Freq	 Suppried 2480750000 GHz 2480750000 GHz 40.2	2479250000 GHz 300 400 400 400 400 400 400 400	Center Freq 2.48000000 CHz PCONTON Met 12.479 997 0 CHz Ref 0/met 2.79 0 CH Ref 2.427 0 CHz Ref 0/met 2.79 0 CHz Ref 0/met 2.4800000	Ref Offset 379 dB Mkr1 2.479 BP7 0 GHz Auto Tune Ref Offset 379 dB Mkr1 2.479 BP7 0 GHz Auto Tune Ref Start Park Center Freq 2.48070000 GHz 270 0 0 0 02 0 0 0	Center Freq 248000000 GHz Footback 12 / 20 Ref Onet 27 / 20 Ref Ref Onet 27 / 20 Ref Ref Onet 27 / 20 Ref Onet 27 /	
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# 	Res BW sg Keysight Spe RL	100 kHz setrum Analyzer RF 5 req 2.402	Swept SA 0 Ω DC 0000000 G NFE F II	BDH5_ Hz ™O: Wide →	Ant1_2	402_0~F	STATUS Refere Align Auto e: RMS 100/100	8.0 ms (3 COCE 01:10:46 PM TRAC TYP DE	0001 pts)	Frequency	
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# 	Res BW sc sc center Fi 0 dB/div 98 979 921 922 923 924 925 927 928 929	too kHz ctrum Analyzer RF 5 req 2.402 Ref Offset Ref 29.7	Swept SA 0 Ω DC 000000 G NFE I 9 dBm	Hz PNC: Wide + FGainLow	Ant1_2 SENSE:IT Trig: Free Run #Atten: 30 dB	402_0~F	STATUS Refere ALIGN AUTO E: RMS 100/100 Mkr1 2.	8.0 ms (3 COCC 01:10:46 PM TRAC TVP DE 402 088	0001 pts)	Frequency Auto Tune 2.40200000 GHz 2.401250000 GHz 2.401250000 GHz 2.401250000 GHz 2.402750000 GHz 150.000 KHz Auto Man Freq Offset	
# 	c Keynight Space SG Image: Space C Center Fi 0 dBldiv 9 Image: Space 10 2	too kHz ctrum Analyzer RF 5 req 2.402 Ref Offset Ref 29.7	Swept SA 0 Ω DC 000000 G NFE I 9 dBm	Hz PNC: Wide + FGainLow	Ant1_2 SENSE:IT Trig: Free Run #Atten: 30 dB	402_0~F	STATUS Refere ALIGN AUTO E: RMS 100/100 Mkr1 2.	8.0 ms (3 COCC 01:10:46 PM TRAC TVP DE 402 088	0001 pts)	Frequency Auto Tune 2.40200000 GHz 2.401250000 GHz 2.401250000 GHz 2.401250000 GHz 2.402750000 GHz 150.000 KHz Auto Man Freq Offset	
н н н н н н н н н н н н н н	Res BW sc transfer Spring Spring 0 dB/div 9 19.0 19.0 10.2	too kHz schum Analyzer № 5 req 2.402 Ref 0ffset Ref 29.7 M	- Seept SA 0 2 BC 0 2 BC NFE f 1 9.79 dB 9 dBm	Hz PNC: Wide + FGainLow	Ant1_2 SENSE:IT Trig: Free Run #Atten: 30 dB	402_0~F	STATUS Refere ALIGN AUTO E: RMS 100/100 Mkr1 2.	8.0 ms (3 PINCE 011040PP 101040PP 101040PP 101040PP 101040PP 101040PP 101040PP 101040PP 101040PP 101040PP	0001 pts)	Frequency Auto Tune Center Freq 2.40200000 GHz Start Freq 2.401250000 GHz 2.401250000 GHz 2.402750000 GHz 150,000 HHz Auto Man Freq Offset 0 Hz Scale Type	
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	Res BW science science control	too kHz schum Analyzer № 5 req 2.402 Ref 0ffset Ref 29.7 M	- Seept SA 0 2 BC 0 2 BC NFE f 1 9.79 dB 9 dBm	BDH5_ Hz NO: Wide → FGaint.ow	Ant1_2 SENSE:IT Trig: Free Run #Atten: 30 dB		STATUS Refere ALIGN AUTO E: RMS 100/100 Mkr1 2.	8.0 ms (3 PICCE (01:10-45 PP TRACE T	4May 25, 2020 E 1 3 4 5 6 E 1 3 4 5 6 F 7 4 5 6 F 7 4 5 6 F 7 4 5 7 F 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7	Frequency Auto Tune Center Freq 2.40200000 GHz Start Freq 2.401250000 GHz 2.401250000 GHz 2.402750000 GHz 150,000 HHz Auto Man Freq Offset 0 Hz Scale Type	



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_				0_/ 410		00~10	00			
	Spectrum Analyzer RF			SENS	INT	ALIGN AUTO	01:10:51 P	M May 25, 2020		
Center	Freq 515.	000000 MI	Hz PNO: Fast ↔ IFGain:Low		#Avg T tun Avg Ho	ype: RMS ld: 10/10	TRAC	DE 1 2 3 4 5 6 PE M ET P P P P P P	Frequency	
10 dB/div	Ref Offse Ref 9.79	t 9.79 dB	IFGain:Low	#Atten: To t	10	ľ	Vkr1 52	.02 MHz 29 dBm	Auto Tune	
Log	Kei 9.73	JUBIII							Center Freq	
-0.21									515.000000 MHz	
-10.2								0L1 -17.25 dBm	Start Freq 30.000000 MHz	
-20.2									30.00000 MH2	
-30.2									Stop Freq 1.00000000 GHz	
-40.2									CF Step	
-60.2									97.000000 MHz <u>Auto</u> Man	
-70.2	1								Freq Offset	
-80.2	ad balandal	an and da	und pality	his yadad	ing kang kang pangan di	an daring barre	delegator Andread		0 Hz	
tie	anther plants	ethory and a second	a that	hi ni na bokuna	han parti har f	alter alter alter			Scale Type	
	0000 011									
Start 0.0 #Res Bi	0300 GHz N 100 kHz		#VBW	/ 300 kHz		Sweep 36	6.00 ms (3	0000 GHz 30001 pts)	Log <u>Lin</u>	
 Start 0.0	0300 GHz W 100 kHz					STATUS	5.00 ms (3 s	0000 GHz 30001 pts)		
Start 0.0 #Res Bi	W 100 kHz				2402_10	STATUS	5.00 ms (3 s	0000 GHz 80001 pts)		
Start 0.0 #Res Bit MSG Keysight	W 100 kHz	r - Swept SA				status 000~26	5.00 ms (3 s 6500	30001 pts)		
Start 0.0 #Res Bl	N 100 kHz	- Swept SA 50 Ω DC 50000000 NFE	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS	5.00 ms (3 s 5500 01:11:15 P TRAC	May 25, 2020		
Start 0.4 #Res Bl	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ ghz	_Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MMay 25, 2020 E 1 2 3 4 5 6 M M P P P P P 95 GHz		
 Start 0.0 #Res Bl	N 100 kHz Spectrum Analyzer RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MMay 25, 2020 2E 1 2 3 4 5 6 P P P P P P P	Frequency Auto Tune	
Start 0. #Res Bi MSG RL Center	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MMay 25, 2020 E 1 2 3 4 5 6 M M P P P P P 95 GHz	Frequency	
Start 0.4 #Res B\ Msg Msg Keysight Center 10 dB/div Log -0.21	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MMay 25, 2020 E 1 2 3 4 5 6 M M P P P P P 95 GHz	Frequency Auto Tune 13.75000000 GHz Start Freq	
Start 0.1 #Res B) uss Res B) uss RL Center 10 dB/div -0.21 -10.2 -20.2	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MHay 25, 2020 # 1 2 3 4 5 6 # 1 2	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz	
Start 0.1 #Res B) MsG MsG RL Center 10 dB/div -0.21 -10.2 -20.2 -30.2	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MHay 25, 2020 # 1 2 3 4 5 6 # 1 2	Frequency Auto Tune 13.75000000 GHz Start Freq	
Start 0.1 #Res B) uss Res B) uss RL Center 10 dB/div -0.21 -10.2 -20.2	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MHay 25, 2020 # 1 2 3 4 5 6 # 1 2	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq 26.50000000 GHz CF Step	
Start 0.1 #Res Bi Msa Sa RL D dEldiv -0.2 -10.2 -30.2 -0.2	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MHay 25, 2020 # 1 2 3 4 5 6 # 1 2	Frequency Auto Tune Center Freq 13.750000000 GHz Start Freq 1.00000000 GHz Stop Freq 26.50000000 GHz	
L Center 10 dB/dfv -102 -02 -0	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	STATUS 000~26 ALIGN AUTO ype: RMS Id: 10/10	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MHay 25, 2020 # 1 2 3 4 5 6 # 1 2	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq 25.50000000 GHz	
Start 0.1 #Res Bit uss Max Center 10 dB/dlv -02 -03 -03 -03	N 100 kHz Spectrum Analyzee RF Freq 13.7: Ref Offse	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	ALICA AUTO ALICA AUTO MRT	5.00 ms (3 s 6500 01:11:15 P TRAC TY D r1 2.399	MHay 25, 2020 # 1 2 3 4 5 6 # 1 2	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq 25.5000000 GHz CF Step 2.55000000 GHz Auto Man Freq Offset 0 Hz	
Start 0.1 #Res Bit mss Image: Start 0.1 Image: Start 0.1 <	Spectrum Analyzes	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PN0: Fast →	Ant1	2402_10	ALICA AUTO ALICA AUTO MRT	5.00 ms (3 s 5500 (011115 P 1784 1784 1784 1784 1784 1784 1784 1784	MMay 25, 2020 EE [12:3 + 5 6 EI 21:3 + 5 6 M May 25, 2020 EE [12:3 + 5 6 M May 25, 2020 EI 21:3 + 5 6 M May 25, 2020 EI 21:3 + 5 6 M May 25, 2020 EI 21:3 + 5 6 EI 21:5 + 5 6 EI 21:5 + 5 6	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq 2.55000000 GHz CF Step 2.55000000 GHz Man Freq Offset	
Start 0.0 #Res Bl #Res Bl	Spectrum Analyzes	r - Swept SA 50 Ω DC 500000000 NFE t 9.79 dB	3DH5_ GHz PNO: Fast → IFGainLow	Ant1	2402_1(ALICA AUTO ALICA AUTO MRT	5.00 ms (3 s 5500 (011115P TRAG TRAG TRAG TRAG TRAG TRAG TRAG Stop 2	MMay 25, 2020 E 1 2 3 4 5 6 E 1 3	Frequency Auto Tune Center Freq 13.75000000 GHz Start Freq 1.00000000 GHz Stop Freq 25.50000000 GHz Auto Man Freq Offset 0 Hz Scale Type	



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			3	DH5_	Ant1	<u>24</u> 41	I_0~R	etere	ence		
		ectrum Analyzer - Sv	wept SA								- 2 💌
20	RL	RF 50 S	Ω DC		SEN	SE:INT	A	IGN AUTO	01:16:26 PM	M May 25, 2020	Frequency
C	enter F	req 2.4410	00000 GI	HZ NO:Wide ↔	Trig: Free	Run	#Avg Type Avg Hold:	100/100	TYP	E 1 2 3 4 5 6	
			IF	NO: Wide ↔ Gain:Low	#Atten: 30	dB				T P P P P P P	
		Ref Offset 9.	79 dB					Mkr1 2.	.441 00	9 0 GHz	Auto Tune
10) dB/div		dBm						4.2	29 dBm	
L.											
10	9.8										Center Freq 2.441000000 GHz
											2.44100000 0H2
9.	.79					.1					
						2					Start Freq
-0.	.21			A	A AN	M	Α.				2.440250000 GHz
		. A	man	huber	Mr W . A	1 .2	when	www	Wr. n		
-10	0.2	Nor							100 March		Stop Freq
		p ^M								m	2.441750000 GHz
-20	0.2	4								- M	2.441730000 0112
	M									4	
-30	0.2										CF Step 150.000 kHz
											Auto Man
-4(0.2										
											Freq Offset
-50	0.2										0 Hz
-60	0.2										Coole Trme
											Scale Type
C	enter 2.4	4410000 GH	iz						Span 1	.500 MHz	Log <u>Lin</u>
#F	Res BW	100 kHz		#VB₩	í 300 kHz		S	weep 1	.000 ms (1001 pts)	
MSG	G							STATUS			
				3DH	5 Ant	1 24	41_30)~10	00		
	_										
1111	Keuright Spa	ectrum Analyzer - Sv	Mart SA				00	10	00		
()20	RL	ectrum Analyzer - Sv RF 50 S	Ω DC			SE:INT	A	LIGN AUTO	01:16:31 P	MMay 25, 2020	Ereguerer
()()	RL	RF 50 S RF 50 S	DC 0000 MH	Z	SEN	SE:INT	Al #Avg Type	IGN AUTO	01:16:31 P	M May 25, 2020 E 1 2 3 4 5 6 E M	
()()	RL	RF 50 \$			SEN	SE:INT	A	LIGN AUTO : RMS 10/10	01:16:31 PI TRAC TYF DE	E 1 2 3 4 5 6 E M WWWWWW T P P P P P P	Frequency
()20	RL	RF 50 € Treq 515.00	Ω DC 0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 M P P P P P P 05 MHz	Frequency
	enter Fi	RF 50 \$	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 E M WWWWWW T P P P P P P	Frequency
	enter F	RF 50 5 7req 515.00 Ref Offset 9.	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 M P P P P P P 05 MHz	Frequency Auto Tune
0 C 10 Lo	enter Fi	RF 50 5 7req 515.00 Ref Offset 9.	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 M P P P P P P 05 MHz	Frequency Auto Tune Center Freq
	enter Fi	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 M P P P P P P 05 MHz	Frequency Auto Tune
00 Ci 10 Lo	enter Fi	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 M P P P P P P 05 MHz	Frequency Auto Tune Center Freq
0 C1 10 L0	enter Fi	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq
0 Cr 10 -0. -10	enter Fi	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	E 1 2 3 4 5 6 M P P P P P P 05 MHz	Frequency Auto Tune Center Freq 515.000000 MHz
10 10 -0.	RL enter Fi 0 dB/div 0 g 1.21	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq
20 10 -0. -10 -10 -10 -10 -10 -10 -10	RL enter Fi 0 dB/div 0 g .21 0.2 0.2	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz
10 10 10 10 10 10 10 10 10 10 10 10 10 1	RL enter Fi 0 dB/div 0 g 1.21	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz 30.00000 MHz Start Freq Stop Freq
10 10 	RL Image: Constraint of the second seco	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz
10 10 -0 -10 -30 -30	RL Image: Constraint of the second seco	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz Stop Freq 1.00000000 GHz
-23 -23 -24 -24 -24 -24 -24 -24 -24 -24 -24 -24	RL Image: Constraint of the second seco	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz 30.00000 MHz Start Freq 1.00000000 GHz CF Step
10 10 -0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	RL Image: Constraint of the second seco	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz
20 10 10 10 10 10 10 10 10 10 10 10 10 10	RL Image: Constraint of the second seco	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz
10 10 -	RL Image: Constraint of the second seco	RF 50 5	0000 MH NFE P IF	Z PNO: Fast →	SEN	SE:INT	Al #Avg Type	LIGN AUTO : RMS 10/10	01:16:31 PM TRAC TYP DE 1kr1 52.	05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 GHz CF Step 97.00000 GHz
2000 	RL Image: Constraint of the second seco	Ref Offset 9.	2 DC 00000 MH NFE P IF 79 dB Bm	Z NO: Fast → Gain:Low	SEN Trig: Free #Atten: 10	SE:INT Run dB	Avg Type Avg Hold:		01:16:31 PT TRAC TYP 1kr1 52. -72.5	21 2 2 4 5 6 MM TP P P P P P 05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz 30.00000 MHz Stop Freq 1.00000000 GHz CF Step 97.00000 MHz Auto Man Freq Offset
4 10 10 11 11 11 11 11 11 11 11 11 11 11	RL enter Fi 0 dB/div 0 0 g <td>Ref Offset 9.</td> <td>2 DC 00000 MH NFE P IF 79 dB Bm</td> <td>Z NO: Fast → Gain:Low</td> <td>SEN Trig: Free #Atten: 10</td> <td>SE:INT Run dB</td> <td>Avg Type Avg Hold:</td> <td></td> <td>01:16:31 PT TRAC TYP 1kr1 52. -72.5</td> <td>21 2 2 4 5 6 MM TP P P P P P 05 MHz 87 dBm</td> <td>Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 GHz CF Step 97.00000 GHz</td>	Ref Offset 9.	2 DC 00000 MH NFE P IF 79 dB Bm	Z NO: Fast → Gain:Low	SEN Trig: Free #Atten: 10	SE:INT Run dB	Avg Type Avg Hold:		01:16:31 PT TRAC TYP 1kr1 52. -72.5	21 2 2 4 5 6 MM TP P P P P P 05 MHz 87 dBm	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 GHz CF Step 97.00000 GHz
4 10 -0 -11 -11 -11 -11 -11 -11 -11 -11 -	RL enter F 0 dB/div 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02	RF 901 reg 515.00 Ref 0ffset 9. Ref 9.79 d	79 dB Bm	Z NO: Fast → GainLow	Sen	SE-INT		IGN AUTO	01:16:31 PM TRAC TYP 1kr1 52. -72.5	212 2 3 4 5 6 MM2100 TP P P P P P 05 MHz 87 dBm DL1-1527 dBe	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz Stop Freq 97.000000 MHz Man Freq Offset 0 Hz
4 10 -0 -11 -11 -11 -11 -11 -11 -11 -11 -	RL enter F 0 dB/div 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02 02	Ref Offset 9.	79 dB Bm	Z NO: Fast → GainLow	Sen	SE-INT		IGN AUTO	01:16:31 PM TRAC TYP 1kr1 52. -72.5	212 2 3 4 5 6 MM2100 TP P P P P P 05 MHz 87 dBm DL1-1527 dBe	Frequency Auto Tune Center Freq 515.00000 MHz 30.00000 MHz Stop Freq 1.00000000 GHz CF Step 97.00000 MHz Auto Man Freq Offset
4 10 10 11 11 11 11 12 12 12 12 12 12 12 12 12	RL RL dB/dlv 0 0.2 0.2 0.2 1.2 0.3	Ref Offset 9. Ref Offset 9. Ref 9.79 d	79 dB Bm	Z NO: Fast → GainLow	Sen	SE-INT		IGN AUTO	(0:163) 91 (0:163) 91	201-1577 dBm	Frequency Auto Tune Center Freq 515.00000 MHz 30.00000 MHz 30.000000 MHz 30.000000 GHz 1.00000000 GHz 1.0000000 GHz CF Step 97.00000 MHz Auto Man Freq Offset 0 Hz Scale Type
2 10 10 10 10 10 10 10 10 10 10 10 10 10	RL RL dB/div gg 02 gg 03 gg 04 gg 14 gg	Ref Offset 9. Ref Offset 9. Ref 9.79 d	79 dB Bm	Z NO: Fast → GainLow	Sen	SE-INT	Avg Type Avg Hold:	ION AUTO	(01:16:3) 91 7826 1785	212 2 3 4 5 6 MM2100 TP P P P P P 05 MHz 87 dBm DL1-1527 dBe	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz Stop Freq 97.00000 MHz Man Freq Offset 0 Hz Scale Type Log Lin
2 10 10 10 10 10 10 10 10 10 10 10 10 10	RL Electric otB/div 0 0	Ref Offset 9. Ref Offset 9. Ref 9.79 d	79 dB Bm	Z NO: Fast → GainLow	SEN Trig: Free EAtten: 10	SE-INT	Avg Type Avg Hold:	ION AUTO	011631 81 81 104 104 105 105 105 105 105 105 105 105	E 1 23 4 5 6 H 2 24 5 6 H 2	Frequency Auto Tune Center Freq 515.00000 MHz Start Freq 30.00000 MHz Stop Freq 97.00000 MHz Man Freq Offset 0 Hz Scale Type Log Lin



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			3D	DH5 .	Ant1_	2441	100	0~26	500			
Keysight	t Spectrum Ana	nalyzer - Swept				-					- 2 🗾	
💢 RL	RF	50 Ω	DC		SEN	E:INT	A	IGN AUTO	01:16:55 PM	4 May 25, 2020		
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End of Report