

RADIO TEST REPORT

Report No:STS1908284W03

Issued for

FrSky Electronic Co., Ltd.

F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi, 214125, Jiangsu, China

Product Name:	Digital Telemetry Radio System
Brand Name:	FrSky
Model Name:	Taranis X9D Plus SE 2019
Series Model:	Taranis X9D Plus 2019, Taranis X9 Lite, Taranis X9 Lite Pro, Taranis X9 Lite S, Taranis X9E ACCESS, Taranis Q X7 ACCESS, Taranis Q X7S ACCESS
FCC ID:	XYFX9X7DLSP
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's Name..... FrSky Electronic Co., Ltd.

Address F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi,

214125, Jiangsu, China

Manufacture's Name...... FrSky Electronic Co., Ltd.

Address F-4, Building C, Zhongxiu Technology Park, No.3 Yuanxi Road, Wuxi,

214125, Jiangsu, China

Product Description

Product Name Digital Telemetry Radio System

Brand Name: FrSky

Model Name: Taranis X9D Plus SE 2019

Taranis X9D Plus 2019, Taranis X9 Lite, Taranis X9 Lite Pro, Taranis

Series Model X9 Lite S, Taranis X9E ACCESS, Taranis Q X7 ACCESS, Taranis Q

X7S ACCESS

Test Standards..... FCC Part15.247

Test Procedure ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests...... 23 Aug. 2019 ~ 14 Oct. 2019

Date of Issue...... 14 Oct. 2019

Test Result.....: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

Authorized Signatory:

(Sunday Hu)

(Vita Li)



Table of Contents

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	11
2.5 EQUIPMENTS LIST	12
3. EMC EMISSION TEST	13
3.1 CONDUCTED EMISSION MEASUREMENT	13
3.2 TEST PROCEDURE	14
3.3 TEST SETUP	14
3.5 TEST RESULTS	14
4. RADIATED EMISSION MEASUREMENT	15
4.1 RADIATED EMISSION LIMITS	15
4.2 TEST PROCEDURE	16
4.3 TEST SETUP	17
4.4 EUT OPERATING CONDITIONS	17
4.5 FIELD STRENGTH CALCULATION	18
4.6 TEST RESULTS	19
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	32
5.1 LIMIT	32
5.2 TEST PROCEDURE	32
5.3 TEST SETUP	32
5.4 EUT OPERATION CONDITIONS	32
5.5 TEST RESULTS	33
6. POWER SPECTRAL DENSITY TEST	41
6.1 LIMIT	41
6.2 TEST PROCEDURE	41
6.3 TEST SETUP	41
6.4 EUT OPERATION CONDITIONS	41
6.5 TEST RESULTS	42







Table of Contents

7. BANDWIDTH TEST	46
7.1 LIMIT	46
7.2 TEST PROCEDURE	46
7.3 TEST SETUP	46
7.4 EUT OPERATION CONDITIONS	46
7.5 TEST RESULTS	47
8. PEAK OUTPUT POWER TEST	51
8.1 LIMIT	51
8.2 TEST PROCEDURE	51
8.3 TEST SETUP	51
8.4 EUT OPERATION CONDITIONS	51
8.5 TEST RESULTS	52
9. ANTENNA REQUIREMENT	53
9.1 STANDARD REQUIREMENT	53
9.2 EUT ANTENNA	53
10. EUT TEST PHOTO	54



Page 5 of 54 Report No.: STS1908284W03

Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	14 Oct. 2019	STS1908284W03	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	N/A		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge PASS			
15.247 (e)	Power Spectral Density	PASS		
15.205	Restricted Band Edge Emission	PASS		
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013





1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±0.71dB
2	Unwanted Emissions, conducted	±0.63dB
3	All emissions, radiated 30-200MHz	±3.43dB
4	All emissions, radiated 200MHz-1GHz	±3.57dB
5	All emissions, radiated>1G	±4.13dB
6	Conducted Emission (9KHz-150KHz)	±3.18dB
7	Conducted Emission (150KHz-30MHz)	±2.70dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Digital Telemetry Radio System			
Trade Name	FrSky			
Model Name	Taranis X9D Plus SI	E 2019		
Series Model	Pro, Taranis X9 Lite	019 , Taranis X9 Lite,Taranis X9 Lite S, Taranis X9E ACCESS,Taranis Q iis Q X7S ACCESS		
Model Difference	The model name an	d size of appearance are different.		
	The EUT is a Digital	Telemetry Radio System		
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	GFSK		
	Radio Technology:	BLE		
	Bluetooth Version:	5.0		
Product Description	Bluetooth Configuration:	Support 1M PHY, 2M PHY		
	Number Of Channel:	40		
	Antenna Designation:	Please see Note 3.		
	Antenna Gain (dBi)	0dBi		
Channel List	Please refer to the N	Note 2.		
Power Rating	Input: DC 6.5V-8.4V, 130mA X9DP2019-RF_REV0.41			
Hardware version number				
Software version number	V1.0			
Connecting I/O Port(s)	Please refer to the User's Manual			
Nete:				

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	FrSky	Taranis X9D Plus SE 2019	Chip	N/A	0dBi	BLE ANT.



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 MHz/GFSK
Mode 2	TX CH19(2440MHz)	1 MHz/GFSK
Mode 3	TX CH39(2480MHz)	1 MHz/GFSK

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	2M PHY /GFSK
Mode 2	TX CH19(2440MHz)	2M PHY /GFSK
Mode 3	TX CH39(2480MHz)	2M PHY /GFSK

Note:

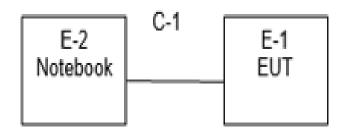
- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- 2) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required





2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A
			7/7		

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	HP	500-320cx	N/A	N/A
C-1	DC Cable	N/A	100cm	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".





2.5 EQUIPMENTS LIST

Radiation Test equipment

vadiation rest equipment							
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
Test Receiver	R&S	ESCI	101427	2018.10.13 2019.10.09	2019.10.12, 2020.10.08		
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01		
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10		
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.1		
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10		
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2018.10.13 2019.10.09	2019.10.12, 2020.10.08		
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK201808090 1	2018.10.13 2019.10.09	2019.10.12, 2020.10.08		
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11 2019.10.09	2019.10.10, 2020.10.08		
turn table	EM	SC100_1	60531	N/A	N/A		
Antenna mast	EM	SC100	N/A	N/A	N/A		
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)					

RF Connected Test

Til Collinotton 100t						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13 2019.10.09	2019.10.12, 2020.10.08	
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13 2019.10.09	2019.10.12, 2020.10.08	
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11 2019.10.09	2019.10.10, 2020.10.08	
Test SW FARAD LZ-RF /LzRf-		zRf-3A3				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

EDEOLIENCY (MHz)	Conducted Emission limit (dBuV)		
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	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

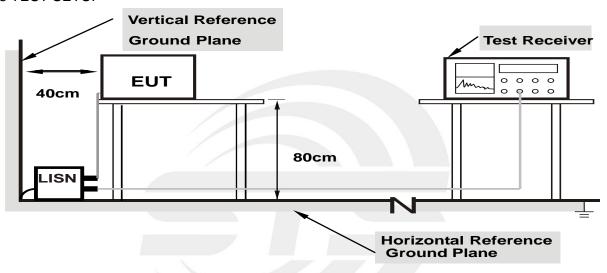




3.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.5 TEST RESULTS

Temperature:	24.6(C)	Relative Humidity:	67%RH
Test Voltage:	N/A	Phase:	L/N
Test Mode:	N/A		

Note: The BT function will be disabled (not transmitting) when the EUT is charging, the test is not available.



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies	Field Strength	Measurement Distance	
(MHz)	(micorvolts/meter)	(meters)	
0.009~0.490	2400/F(KHz)	300	
0.490~1.705	24000/F(KHz)	30	
1.705~30.0	30	30	
30~88	100	3	
88~216	150	3	
216~960	200	3	
Above 960	500	3	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted	1 MHz / 3 MHz
band)	1 MH2 / 3 MH2

For Band edge

Spectrum Parameter	Setting	
Detector	Peak/AV	
Chart/Chan Francisco	Lower Band Edge: 2300 to 2403 MHz	
Start/Stop Frequency	Upper Band Edge: 2479 to 2500 MHz	
RB / VB (emission in restricted band)	1 MHz / 3 MHz	





Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

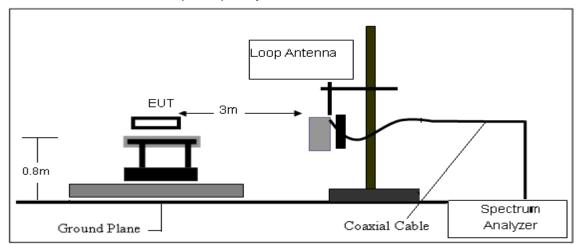
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

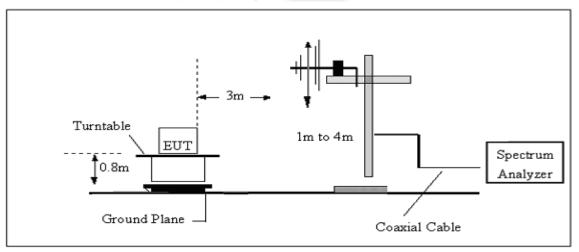


4.3 TEST SETUP

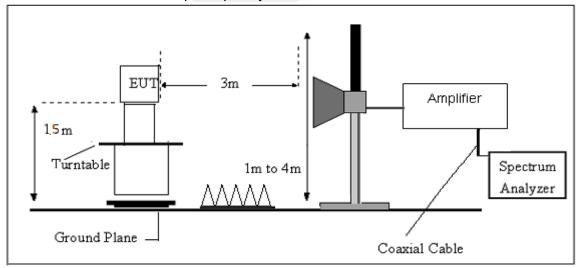
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG





4.6 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	25.7(C)	Relative Humidtity:	65%RH
Test Voltage:	DC 7V	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



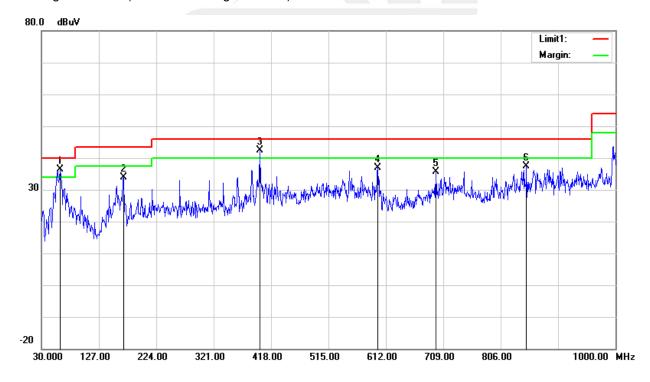
(30MHz -1000MHz)

1M PHY

Temperature:	25.7(C)	Relative Humidity:	65%RH					
Test Voltage:	DC 7V	Phase:	Horizontal					
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)							

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	61.0400	62.08	-25.80	36.28	40.00	-3.72	QP
2	168.7100	53.62	-19.67	33.95	43.50	-9.55	QP
3	398.6000	53.61	-11.20	42.41	46.00	-3.59	QP
4	598.4200	42.80	-5.85	36.95	46.00	-9.05	QP
5	696.3900	39.76	-4.23	35.53	46.00	-10.47	QP
6	849.6500	38.08	-0.73	37.35	46.00	-8.65	QP

Remark:



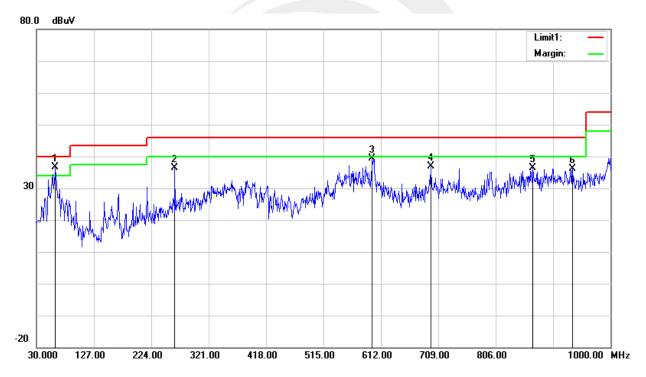


Page 21 of 54 Report No.: STS1908284W03

Temperature:	25.7(C)	Relative Humidity:	65%RH					
Test Voltage:	DC 7V	Phase:	Vertical					
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)							

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	62.0100	62.42	-25.76	36.66	40.00	-3.34	QP
2	263.7700	51.01	-14.75	36.26	46.00	-9.74	QP
3	597.4500	45.24	-5.85	39.39	46.00	-6.61	QP
4	696.3900	41.01	-4.23	36.78	46.00	-9.22	QP
5	869.0500	37.00	-0.52	36.48	46.00	-9.52	QP
6	935.9800	35.19	1.04	36.23	46.00	-9.77	QP

Remark:





Page 22 of 54 Report No.: STS1908284W03

2M PHY

Temperature:	25.7(C)	Relative Humidity:	65%RH				
Test Voltage:	DC 7V	Phase:	Horizontal				
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)						

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	62.0100	62.55	-25.76	36.79	40.00	-3.21	QP
2	168.7100	53.57	-19.67	33.90	43.50	-9.60	QP
3	399.5700	50.11	-11.16	38.95	46.00	-7.05	QP
4	696.3900	39.76	-4.23	35.53	46.00	-10.47	QP
5	839.9500	40.06	-0.34	39.72	46.00	-6.28	QP
6	960.2300	36.51	1.76	38.27	54.00	-15.73	QP

Remark:



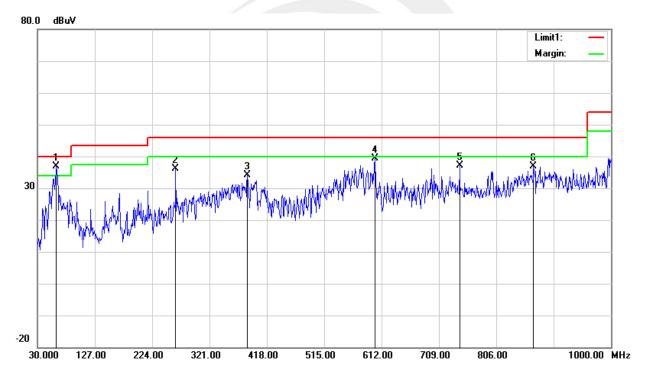


Page 23 of 54 Report No.: STS1908284W03

Temperature:	25.7(C)	Relative Humidity:	65%RH				
Test Voltage:	DC 7V	Phase:	Vertical				
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)						

No.	Frequenc y	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	62.0100	62.52	-25.76	36.76	40.00	-3.24	QP
2	263.7700	50.79	-14.75	36.04	46.00	-9.96	QP
3	385.0200	45.96	-11.92	34.04	46.00	-11.96	QP
4	600.3600	45.33	-5.84	39.49	46.00	-6.51	QP
5	743.9200	39.27	-2.13	37.14	46.00	-8.86	QP
6	869.0500	37.47	-0.52	36.95	46.00	-9.05	QP

Remark:





Report No.: STS1908284W03

(1GHz-25GHz)Restricted band and Spurious emission Requirements

1M PHY GFSK

	GFSK									
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Orrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Common
				Low C	channel (2402	MHz)				
3264.88	61.77	44.70	6.70	28.20	-9.80	51.97	74.00	-22.03	PK	Vertical
3264.88	50.65	44.70	6.70	28.20	-9.80	40.85	54.00	-13.15	AV	Vertical
3264.73	61.93	44.70	6.70	28.20	-9.80	52.13	74.00	-21.87	PK	Horizontal
3264.73	51.27	44.70	6.70	28.20	-9.80	41.47	54.00	-12.53	AV	Horizontal
4804.55	59.06	44.20	9.04	31.60	-3.56	55.50	74.00	-18.50	PK	Vertical
4804.55	49.86	44.20	9.04	31.60	-3.56	46.30	54.00	-7.70	AV	Vertical
4804.42	58.26	44.20	9.04	31.60	-3.56	54.70	74.00	-19.30	PK	Horizontal
4804.42	50.20	44.20	9.04	31.60	-3.56	46.64	54.00	-7.36	AV	Horizontal
5359.72	48.11	44.20	9.86	32.00	-2.34	45.77	74.00	-28.23	PK	Vertical
5359.72	40.32	44.20	9.86	32.00	-2.34	37.98	54.00	-16.02	AV	Vertical
5359.74	47.34	44.20	9.86	32.00	-2.34	45.00	74.00	-29.00	PK	Horizontal
5359.74	38.90	44.20	9.86	32.00	-2.34	36.56	54.00	-17.44	AV	Horizontal
7205.91	54.66	43.50	11.40	35.50	3.40	58.06	74.00	-15.94	PK	Vertical
7205.91	43.75	43.50	11.40	35.50	3.40	47.15	54.00	-6.85	AV	Vertical
7205.72	54.44	43.50	11.40	35.50	3.40	57.84	74.00	-16.16	PK	Horizontal
7205.72	43.77	43.50	11.40	35.50	3.40	47.17	54.00	-6.83	AV	Horizontal
				Middle	Channel (244	0 MHz)				
3264.65	61.43	44.70	6.70	28.20	-9.80	51.63	74.00	-22.37	PK	Vertical
3264.65	51.43	44.70	6.70	28.20	-9.80	41.63	54.00	-12.37	AV	Vertical
3264.70	62.18	44.70	6.70	28.20	-9.80	52.38	74.00	-21.62	PK	Horizontal
3264.70	50.62	44.70	6.70	28.20	-9.80	40.82	54.00	-13.18	AV	Horizontal
4880.57	59.09	44.20	9.04	31.60	-3.56	55.53	74.00	-18.47	PK	Vertical
4880.57	50.57	44.20	9.04	31.60	-3.56	47.01	54.00	-6.99	AV	Vertical
4880.58	58.47	44.20	9.04	31.60	-3.56	54.91	74.00	-19.09	PK	Horizontal
4880.58	50.31	44.20	9.04	31.60	-3.56	46.75	54.00	-7.25	AV	Horizontal
5359.70	49.27	44.20	9.86	32.00	-2.34	46.93	74.00	-27.07	PK	Vertical
5359.70	40.10	44.20	9.86	32.00	-2.34	37.76	54.00	-16.24	AV	Vertical
5359.77	48.01	44.20	9.86	32.00	-2.34	45.67	74.00	-28.33	PK	Horizontal
5359.77	39.40	44.20	9.86	32.00	-2.34	37.06	54.00	-16.94	AV	Horizontal
7320.77	53.85	43.50	11.40	35.50	3.40	57.25	74.00	-16.75	PK	Vertical
7320.77	44.11	43.50	11.40	35.50	3.40	47.51	54.00	-6.49	AV	Vertical
7320.83	54.58	43.50	11.40	35.50	3.40	57.98	74.00	-16.02	PK	Horizontal
7320.83	44.54	43.50	11.40	35.50	3.40	47.94	54.00	-6.06	AV	Horizontal

Page 25 of 54 Report No.: STS1908284W03

	High Channel (2480 MHz)									
	ı	1	T	nigii C	ilalillei (240	U IVITIZ)	1	ı		Т
3264.85	62.21	44.70	6.70	28.20	-9.80	52.41	74.00	-21.59	PK	Vertical
3264.85	51.77	44.70	6.70	28.20	-9.80	41.97	54.00	-12.03	AV	Vertical
3264.63	60.82	44.70	6.70	28.20	-9.80	51.02	74.00	-22.98	PK	Horizontal
3264.63	50.57	44.70	6.70	28.20	-9.80	40.77	54.00	-13.23	AV	Horizontal
4960.30	59.03	44.20	9.04	31.60	-3.56	55.47	74.00	-18.53	PK	Vertical
4960.30	50.57	44.20	9.04	31.60	-3.56	47.01	54.00	-6.99	AV	Vertical
4960.39	58.95	44.20	9.04	31.60	-3.56	55.39	74.00	-18.61	PK	Horizontal
4960.39	49.41	44.20	9.04	31.60	-3.56	45.85	54.00	-8.15	AV	Horizontal
5359.68	49.24	44.20	9.86	32.00	-2.34	46.90	74.00	-27.10	PK	Vertical
5359.68	40.13	44.20	9.86	32.00	-2.34	37.79	54.00	-16.21	AV	Vertical
5359.73	48.11	44.20	9.86	32.00	-2.34	45.77	74.00	-28.23	PK	Horizontal
5359.73	38.08	44.20	9.86	32.00	-2.34	35.74	54.00	-18.26	AV	Horizontal
7439.94	53.52	43.50	11.40	35.50	3.40	56.92	74.00	-17.08	PK	Vertical
7439.94	44.43	43.50	11.40	35.50	3.40	47.83	54.00	-6.17	AV	Vertical
7439.83	54.50	43.50	11.40	35.50	3.40	57.90	74.00	-16.10	PK	Horizontal
7439.83	43.93	43.50	11.40	35.50	3.40	47.33	54.00	-6.67	AV	Horizontal

Note:

- Factor = Antenna Factor + Cable Loss Pre-amplifier.
 Emission Level = Reading + Factor
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



Report No.: STS1908284W03

1M PHY GFSK

Frequency Melete						GESK					
MHz	Frequency		Amplifier	Loss				Limits	Margin	Detector	Comment
3264.76 62.02 44.70 6.70 28.20 9.80 52.22 74.00 -21.78 PK Vertical 3264.76 50.71 44.70 6.70 28.20 9.80 40.91 54.00 -13.09 AV Vertical 3264.68 61.78 44.70 6.70 28.20 9.80 51.98 74.00 -22.02 PK Horizontal 3264.68 50.94 44.70 6.70 28.20 9.80 51.98 74.00 -12.86 AV Horizontal 4804.47 59.57 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.47 49.95 44.20 9.04 31.60 -3.56 46.39 54.00 -7.61 AV Vertical 4804.44 55.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 45.88 54.00 -8.12 AV Horizontal 5359.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.61 40.03 44.20 9.86 32.00 -2.34 37.69 54.00 -16.31 AV Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 36.32 54.00 -16.31 AV Vertical 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 PK Horizontal 7205.86 44.10 43.50 11.40 35.50 3.40 57.44 74.00 -15.82 PK Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.66 AV Horizontal 7205.71 43.94 43.50 11.40 35.50 3.40 57.44 74.00 -16.66 AV Horizontal 3264.73 50.60 44.70 6.70 28.20 -9.80 51.35 74.00 -13.20 AV Vertical 3264.75 50.84 44.70 6.70 28.20 -9.80 51.35 74.00 -22.43 PK Vertical 4880.41 58.87 44.20 9.04 31.60 -3.55 34.0 51.35 74.00 -16.66 AV Horizontal 4880.41 49.32 44.20 9.86 32.00 -2.34 48.41 74.00 -16.66 PK Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 57.44 74.00 -16.66 AV Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.86 PK Horizontal 7205.71 43.94 43.50 11.40 35.50 3.40 57.44 74.00 -16.86 PK Horizontal 7205.71 43.94 43.50 13.60 -3.56 55.51 74.00 -22.43 PK Horizontal 7205.71 43.94 43.50 31.40 35.50 3.40 57.44 74.00 -16.86 PK Horizontal 7205.71 43.94 43.50 31.60 -3.56 55.61 74.00 -22.43 PK Horizontal 7205.71 43.94 43.50 31.60 -3.56 55.61 74.00 -22.43 PK Horizontal 7205.71 43.94 43.50 31.60 -3.56 55.61 74.00 -22.43 PK Horizontal 7205.71 43.94 43.50 31.60 -3.56 55.61 74.00 -22.43 PK Horizontal 7205.71 43.94 43.50 31.50 31.60 -3.56 55.40 74.00 -12.86 PK Horizontal 7205.71 43.94 44.20 9.86 32.00 -2.34 36.75 55.00 -3.80 PK Hor	(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Common
3264.76 50.71 44.70 6.70 28.20 -9.80 40.91 54.00 -13.09 AV Vertical 3264.68 61.78 44.70 6.70 28.20 -9.80 51.98 74.00 -22.02 PK Horizontal 3264.68 50.94 44.70 6.70 28.20 -9.80 41.14 54.00 12.86 AV Horizontal 4804.47 59.57 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.47 49.95 44.20 9.04 31.60 -3.56 46.01 74.00 -7.61 AV Vertical 4804.44 58.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 46.88 54.00 -8.12 AV Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 46.88 54.00 -8.12 AV Horizontal 5359.61 44.70 40.03 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 37.69 54.00 -16.31 AV Vertical 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 5259.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -16.56 PK Horizontal 7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -6.56 AV Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -6.66 AV Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -6.66 AV Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.40 74.00 -22.43 PK Horizontal 7205.71 50.84 44.70 6.70 28.20 9.80 51.57 74.00 -22.85 PK Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.69 PK Horizontal 5359.70 48.10 44.20 9.86 32.00 -2.3					Low C	hannel (2402	MHz)				
3264.68 61.78 44.70 6.70 28.20 -9.80 51.98 74.00 -22.02 PK Horizontal 3264.68 50.94 44.70 6.70 28.20 -9.80 51.98 74.00 -12.86 AV Horizontal 4804.47 59.57 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.47 49.95 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.47 49.95 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.44 59.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 45.88 54.00 -8.12 AV Horizontal 5539.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.61 40.03 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 37.69 54.00 -116.31 AV Vertical 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 520.56 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 54.78 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 47.50 54.00 -6.66 AV Horizontal 43.94 43.50 11.40 35.50 3.40 47.34 74.00 -22.65 PK Vertical 3264.73 61.35 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -16.56 PK Horizontal 4880.41 49.32 44.20 9.04 31.60 -3.56 55.31 74.00 -22.43 PK Horizontal 5364.73 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 4880.41 49.32 44.20 9.04 31.60 -3.56 55.31 74.00 -22.43 PK Horizontal 5369.61 44.20 9.04 31.60 -3.56 55.31 74.00 -22.43 PK Horizontal 5369.61 44.20 9.04 31.60 -3.56 55.31 74.00 -22.43 PK Horizontal 5369.61 44.20 9.04 31.60 -3.56 55.31 74.00 -22.43 PK Horizontal 5369.61 49.32 44.20 9.04 31.60 -3.56 55.31 74.00 -22.43 PK Horizontal 5369.61 40.04 44.20 9.86 32.00 -2.34 45.97 74.00 -22.43 PK Horizontal 5369.61 40.04 44.20 9.86 32.00 -2.34 45.97 74.00 -22.43 PK Horizontal 5369.61 40.04 44.20 9.86 32.00 -2.34 45.97 74.00 -22.43 PK Horizontal 5369.61 40.04 44.20 9.86 32.00 -2.34 45.96 54.00 -8.24 AV Horizontal 5369.70 48.10 44.20 9.86 32.00 -2.34 45.96 54.00 -8.24 AV Hori	3264.76	62.02	44.70	6.70	28.20	-9.80	52.22	74.00	-21.78	PK	Vertical
3264.68 50.94 44.70 6.70 28.20 -9.80 41.14 54.00 -12.86 AV Horizontal 4804.47 59.57 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.47 49.95 44.20 9.04 31.60 -3.56 54.96 74.00 -17.99 PK Vertical 4804.44 58.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 45.88 54.00 -8.12 AV Horizontal 5359.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 46.47 74.00 -27.59 PK Vertical 5359.79 38.66 44.20 9.86 32.00 -2.34 46.47 74.00 -27.83 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 46.47 74.00 -27.83 PK Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 47.34 54.00 -6.66 AV Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 54.04 43.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 7205.71 54.04 43.70 6.70 28.20 -9.80 51.57 74.00 -22.65 PK Vertical 7205.71 54.04 43.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 7205.71 54.04 54.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 7205.71 54.80 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 7205.71 44.20 9.04 31.60 -3.56 55.4	3264.76	50.71	44.70	6.70	28.20	-9.80	40.91	54.00	-13.09	AV	Vertical
4804.47 59.57 44.20 9.04 31.60 -3.56 56.01 74.00 -17.99 PK Vertical 4804.47 49.95 44.20 9.04 31.60 -3.56 46.39 54.00 -7.61 AV Vertical 4804.44 58.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 5359.61 48.75 44.20 9.86 32.00 -2.34 36.41 74.00 -27.59 PK Vertical 5359.61 48.03 44.20 9.86 32.00 -2.34 36.32 54.00 -16.31 AV Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.71 54.04 43.50 11.40 35.50 <td>3264.68</td> <td>61.78</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>51.98</td> <td>74.00</td> <td>-22.02</td> <td>PK</td> <td>Horizontal</td>	3264.68	61.78	44.70	6.70	28.20	-9.80	51.98	74.00	-22.02	PK	Horizontal
4804.47 49.95 44.20 9.04 31.60 -3.56 46.39 54.00 -7.61 AV Vertical 4804.44 58.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 45.88 54.00 -8.12 AV Horizontal 5359.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.61 40.03 44.20 9.86 32.00 -2.34 46.47 74.00 -27.83 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.71 54.04 43.50 11.40 35.50	3264.68	50.94	44.70	6.70	28.20	-9.80	41.14	54.00	-12.86	AV	Horizontal
4804.44 58.52 44.20 9.04 31.60 -3.56 54.96 74.00 -19.04 PK Horizontal 4804.44 49.44 44.20 9.04 31.60 -3.56 45.88 54.00 -8.12 AV Horizontal 5359.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 46.17 74.00 -27.83 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 46.17 74.00 -27.83 PK Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 44.10 43.50 11.40 35.50 3.40 58.18 74.00 -16.56 PK Horizontal 7205.71 54.04 43.50 11.40 35	4804.47	59.57	44.20	9.04	31.60	-3.56	56.01	74.00	-17.99	PK	Vertical
4804.44 49.44 44.20 9.04 31.60 -3.56 45.88 54.00 -8.12 AV Horizontal 5359.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.61 40.03 44.20 9.86 32.00 -2.34 37.69 54.00 -16.31 AV Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 47.34 54.00 -6.60 AV Horizontal 7205.71 54.04 43.50 11.40 35.50 <td>4804.47</td> <td>49.95</td> <td>44.20</td> <td>9.04</td> <td>31.60</td> <td>-3.56</td> <td>46.39</td> <td>54.00</td> <td>-7.61</td> <td>AV</td> <td>Vertical</td>	4804.47	49.95	44.20	9.04	31.60	-3.56	46.39	54.00	-7.61	AV	Vertical
5359.61 48.75 44.20 9.86 32.00 -2.34 46.41 74.00 -27.59 PK Vertical 5359.61 40.03 44.20 9.86 32.00 -2.34 37.69 54.00 -16.31 AV Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 46.17 74.00 -27.83 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 47.50 54.00 -15.82 PK Vertical 7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -16.56 PK Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 47.34 54.00 -16.56 PK Horizontal 7205.71 43.94 43.50 11.40 35.50	4804.44	58.52	44.20	9.04	31.60	-3.56	54.96	74.00	-19.04	PK	Horizontal
5359.61 40.03 44.20 9.86 32.00 -2.34 37.69 54.00 -16.31 AV Vertical 5359.79 48.51 44.20 9.86 32.00 -2.34 46.17 74.00 -27.83 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 47.50 54.00 -15.82 PK Vertical 7205.81 54.04 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.75	4804.44	49.44	44.20	9.04	31.60	-3.56	45.88	54.00	-8.12	AV	Horizontal
5359.79 48.51 44.20 9.86 32.00 -2.34 46.17 74.00 -27.83 PK Horizontal 5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal Middle Channel (2440 MHz) Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK <	5359.61	48.75	44.20	9.86	32.00	-2.34	46.41	74.00	-27.59	PK	Vertical
5359.79 38.66 44.20 9.86 32.00 -2.34 36.32 54.00 -17.68 AV Horizontal 7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 51.57 74.00 -22.65 PK Vertical 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 4880.41	5359.61	40.03	44.20	9.86	32.00	-2.34	37.69	54.00	-16.31	AV	Vertical
7205.86 54.78 43.50 11.40 35.50 3.40 58.18 74.00 -15.82 PK Vertical 7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 50.84 44.70 6.70 28.20 -9.80 41.04 54.00 -12.96 AV Horizontal 4880.41	5359.79	48.51	44.20	9.86	32.00	-2.34	46.17	74.00	-27.83	PK	Horizontal
7205.86 44.10 43.50 11.40 35.50 3.40 47.50 54.00 -6.50 AV Vertical 7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.56	5359.79	38.66	44.20	9.86	32.00	-2.34	36.32	54.00	-17.68	AV	Horizontal
7205.71 54.04 43.50 11.40 35.50 3.40 57.44 74.00 -16.56 PK Horizontal 7205.71 43.94 43.50 11.40 35.50 3.40 47.34 54.00 -6.66 AV Horizontal Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.69 PK Horizontal 4880.56 <td>7205.86</td> <td>54.78</td> <td>43.50</td> <td>11.40</td> <td>35.50</td> <td>3.40</td> <td>58.18</td> <td>74.00</td> <td>-15.82</td> <td>PK</td> <td>Vertical</td>	7205.86	54.78	43.50	11.40	35.50	3.40	58.18	74.00	-15.82	PK	Vertical
7205.71 43.94 43.50 11.40 35.50 3.40 47.34 54.00 -6.66 AV Horizontal Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 40.80 54.00 -13.20 AV Vertical 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 50.84 44.70 6.70 28.20 -9.80 41.04 54.00 -12.96 AV Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 49	7205.86	44.10	43.50	11.40	35.50	3.40	47.50	54.00	-6.50	AV	Vertical
Middle Channel (2440 MHz) 3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 40.80 54.00 -13.20 AV Vertical 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 50.84 44.70 6.70 28.20 -9.80 41.04 54.00 -12.96 AV Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 45.76 74.00 -16.30 AV Vertical 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.90 44.85 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	7205.71	54.04	43.50	11.40	35.50	3.40	57.44	74.00	-16.56	PK	Horizontal
3264.73 61.15 44.70 6.70 28.20 -9.80 51.35 74.00 -22.65 PK Vertical 3264.73 50.60 44.70 6.70 28.20 -9.80 40.80 54.00 -13.20 AV Vertical 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -12.96 AV Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 <td>7205.71</td> <td>43.94</td> <td>43.50</td> <td>11.40</td> <td>35.50</td> <td>3.40</td> <td>47.34</td> <td>54.00</td> <td>-6.66</td> <td>AV</td> <td>Horizontal</td>	7205.71	43.94	43.50	11.40	35.50	3.40	47.34	54.00	-6.66	AV	Horizontal
3264.73 50.60 44.70 6.70 28.20 -9.80 40.80 54.00 -13.20 AV Vertical 3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 50.84 44.70 6.70 28.20 -9.80 41.04 54.00 -12.96 AV Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00<					Middle	Channel (244	0 MHz)				
3264.75 61.37 44.70 6.70 28.20 -9.80 51.57 74.00 -22.43 PK Horizontal 3264.75 50.84 44.70 6.70 28.20 -9.80 41.04 54.00 -12.96 AV Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.70 48.10 44.20 9.86 32.00<	3264.73	61.15	44.70	6.70	28.20	-9.80	51.35	74.00	-22.65	PK	Vertical
3264.75 50.84 44.70 6.70 28.20 -9.80 41.04 54.00 -12.96 AV Horizontal 4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00<	3264.73	50.60	44.70	6.70	28.20	-9.80	40.80	54.00	-13.20	AV	Vertical
4880.41 58.87 44.20 9.04 31.60 -3.56 55.31 74.00 -18.69 PK Vertical 4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.61 40.04 44.20 9.86 32.00 -2.34 37.70 54.00 -16.30 AV Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 7320.90 53.70 43.50 11.40 35.50 </td <td>3264.75</td> <td>61.37</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>51.57</td> <td>74.00</td> <td>-22.43</td> <td>PK</td> <td>Horizontal</td>	3264.75	61.37	44.70	6.70	28.20	-9.80	51.57	74.00	-22.43	PK	Horizontal
4880.41 49.32 44.20 9.04 31.60 -3.56 45.76 54.00 -8.24 AV Vertical 4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.61 40.04 44.20 9.86 32.00 -2.34 37.70 54.00 -16.30 AV Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50	3264.75	50.84	44.70	6.70	28.20	-9.80	41.04	54.00	-12.96	AV	Horizontal
4880.56 59.00 44.20 9.04 31.60 -3.56 55.44 74.00 -18.56 PK Horizontal 4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.61 40.04 44.20 9.86 32.00 -2.34 37.70 54.00 -16.30 AV Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.87 54.88 43.50 11.40 35.5	4880.41	58.87	44.20	9.04	31.60	-3.56	55.31	74.00	-18.69	PK	Vertical
4880.56 49.52 44.20 9.04 31.60 -3.56 45.96 54.00 -8.04 AV Horizontal 5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.61 40.04 44.20 9.86 32.00 -2.34 37.70 54.00 -16.30 AV Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	4880.41	49.32	44.20	9.04	31.60	-3.56	45.76	54.00	-8.24	AV	Vertical
5359.61 48.31 44.20 9.86 32.00 -2.34 45.97 74.00 -28.03 PK Vertical 5359.61 40.04 44.20 9.86 32.00 -2.34 37.70 54.00 -16.30 AV Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.90 44.85 43.50 11.40 35.50 3.40 48.25 54.00 -5.75 AV Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	4880.56	59.00	44.20	9.04	31.60	-3.56	55.44	74.00	-18.56	PK	Horizontal
5359.61 40.04 44.20 9.86 32.00 -2.34 37.70 54.00 -16.30 AV Vertical 5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.90 44.85 43.50 11.40 35.50 3.40 48.25 54.00 -5.75 AV Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	4880.56	49.52	44.20	9.04	31.60	-3.56	45.96	54.00	-8.04	AV	Horizontal
5359.70 48.10 44.20 9.86 32.00 -2.34 45.76 74.00 -28.24 PK Horizontal 5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.90 44.85 43.50 11.40 35.50 3.40 48.25 54.00 -5.75 AV Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	5359.61	48.31	44.20	9.86	32.00	-2.34	45.97	74.00	-28.03	PK	Vertical
5359.70 39.08 44.20 9.86 32.00 -2.34 36.74 54.00 -17.26 AV Horizontal 7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.90 44.85 43.50 11.40 35.50 3.40 48.25 54.00 -5.75 AV Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	5359.61	40.04	44.20	9.86	32.00	-2.34	37.70	54.00	-16.30	AV	Vertical
7320.90 53.70 43.50 11.40 35.50 3.40 57.10 74.00 -16.90 PK Vertical 7320.90 44.85 43.50 11.40 35.50 3.40 48.25 54.00 -5.75 AV Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	5359.70	48.10	44.20	9.86	32.00	-2.34	45.76	74.00	-28.24	PK	Horizontal
7320.90 44.85 43.50 11.40 35.50 3.40 48.25 54.00 -5.75 AV Vertical 7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	5359.70	39.08	44.20	9.86	32.00	-2.34	36.74	54.00	-17.26	AV	Horizontal
7320.87 54.88 43.50 11.40 35.50 3.40 58.28 74.00 -15.72 PK Horizontal	7320.90	53.70	43.50	11.40	35.50	3.40	57.10	74.00	-16.90	PK	Vertical
	7320.90	44.85	43.50	11.40	35.50	3.40	48.25	54.00	-5.75	AV	Vertical
7320.87 44.35 43.50 11.40 35.50 3.40 47.75 54.00 -6.25 AV Horizontal	7320.87	54.88	43.50	11.40	35.50	3.40	58.28	74.00	-15.72	PK	Horizontal
	7320.87	44.35	43.50	11.40	35.50	3.40	47.75	54.00	-6.25	AV	Horizontal

Page 27 of 54 Report No.: STS1908284W03

				High C	hannel (248	0 MHz)				
3264.90	61.85	44.70	6.70	28.20	-9.80	52.05	74.00	-21.95	PK	Vertical
3264.90	51.40	44.70	6.70	28.20	-9.80	41.60	54.00	-12.40	AV	Vertical
3264.85	61.04	44.70	6.70	28.20	-9.80	51.24	74.00	-22.76	PK	Horizontal
3264.85	50.47	44.70	6.70	28.20	-9.80	40.67	54.00	-13.33	AV	Horizontal
4960.49	58.31	44.20	9.04	31.60	-3.56	54.75	74.00	-19.25	PK	Vertical
4960.49	49.46	44.20	9.04	31.60	-3.56	45.90	54.00	-8.10	AV	Vertical
4960.46	59.28	44.20	9.04	31.60	-3.56	55.72	74.00	-18.28	PK	Horizontal
4960.46	49.50	44.20	9.04	31.60	-3.56	45.94	54.00	-8.06	AV	Horizontal
5359.81	48.32	44.20	9.86	32.00	-2.34	45.98	74.00	-28.02	PK	Vertical
5359.81	39.17	44.20	9.86	32.00	-2.34	36.83	54.00	-17.17	AV	Vertical
5359.78	47.44	44.20	9.86	32.00	-2.34	45.10	74.00	-28.90	PK	Horizontal
5359.78	39.21	44.20	9.86	32.00	-2.34	36.87	54.00	-17.13	AV	Horizontal
7439.98	53.94	43.50	11.40	35.50	3.40	57.34	74.00	-16.66	PK	Vertical
7439.98	44.55	43.50	11.40	35.50	3.40	47.95	54.00	-6.05	AV	Vertical
7439.91	53.86	43.50	11.40	35.50	3.40	57.26	74.00	-16.74	PK	Horizontal
7439.91	44.27	43.50	11.40	35.50	3.40	47.67	54.00	-6.33	AV	Horizontal

Note:

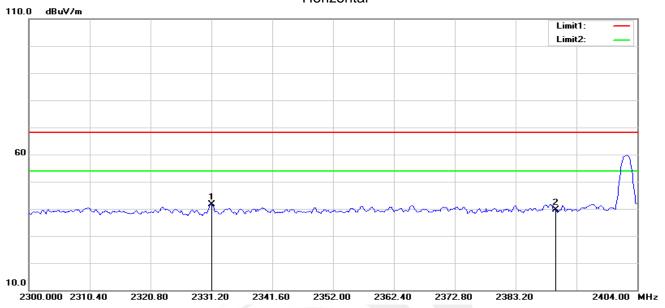
- Factor = Antenna Factor + Cable Loss Pre-amplifier.
 Emission Level = Reading + Factor
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



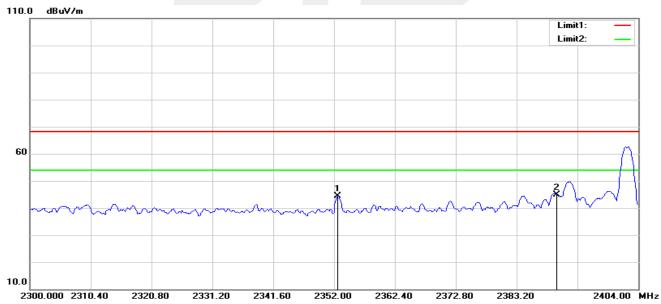


4.6 TEST RESULTS (Restricted Bands Requirements)

1M PHY GFSK-Low Horizontal



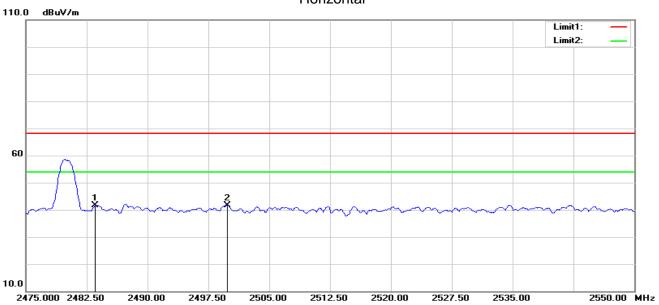
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2331.200	38.07	3.64	41.71	68.20	-26.49	peak
2	2390.000	35.21	4.34	39.55	68.20	-28.65	peak



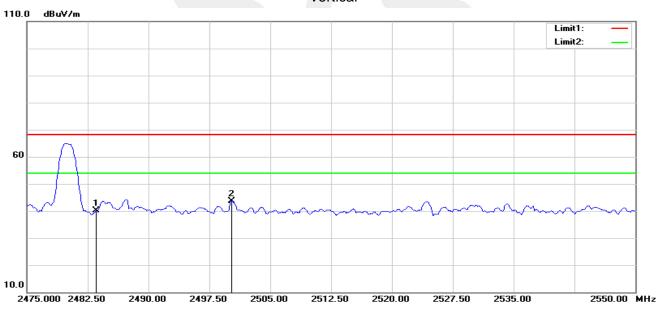
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2352.624	40.51	3.78	44.29	68.20	-23.91	peak
2	2390.000	40.54	4.34	44.88	68.20	-23.32	peak

Page 29 of 54 Report No.: STS1908284W03

GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.96	4.60	41.56	68.20	-26.64	peak
2	2499.825	37.00	4.65	41.65	68.20	-26.55	peak

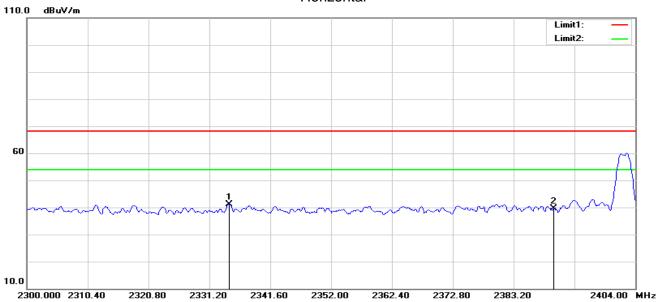


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	35.41	4.60	40.01	68.20	-28.19	peak
2	2500.275	39.05	4.65	43.70	68.20	-24.50	peak

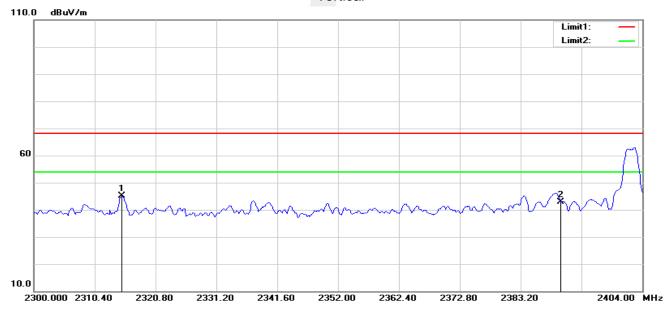


Page 30 of 54 Report No.: STS1908284W03

2M PHY GFSK-Low Horizontal



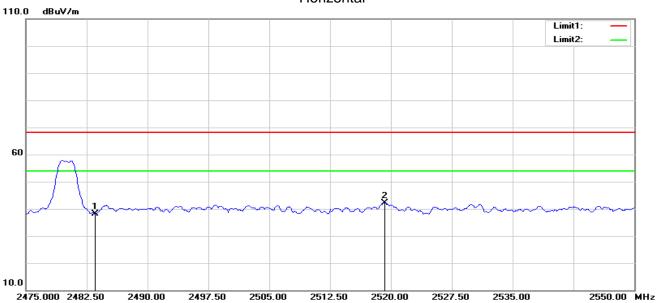
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2334.632	37.55	3.66	41.21	68.20	-26.99	peak
2	2390.000	35.32	4.34	39.66	68.20	-28.54	peak



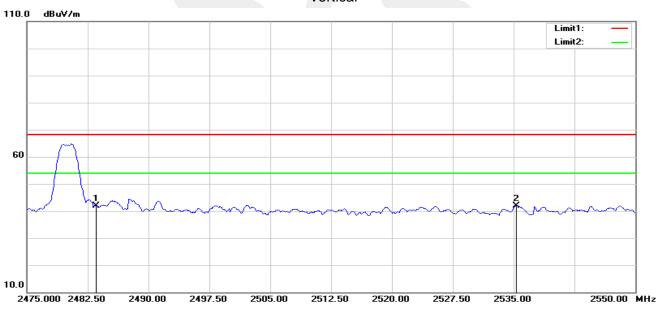
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2315.080	41.62	3.55	45.17	68.20	-23.03	peak
2	2390.000	38.64	4.34	42.98	68.20	-25.22	peak

Page 31 of 54 Report No.: STS1908284W03

GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	33.41	4.60	38.01	68.20	-30.19	peak
2	2519.250	37.46	4.77	42.23	68.20	-25.97	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.32	4.60	41.92	68.20	-26.28	peak
2	2535.375	37.01	4.88	41.89	68.20	-26.31	peak





5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stan Fraguency	Lower Band Edge: 2300 – 2403 MHz
Start/Stop Frequency	Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 TEST SETUP



The EUT which is powered by the DC Power, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

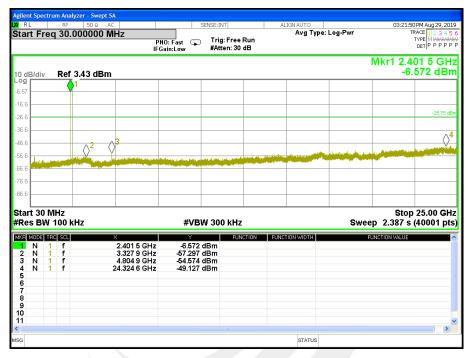




5.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 7V	LIEST MUNCE.	TX Mode /CH00, CH19, CH39

1M PHY 00 CH

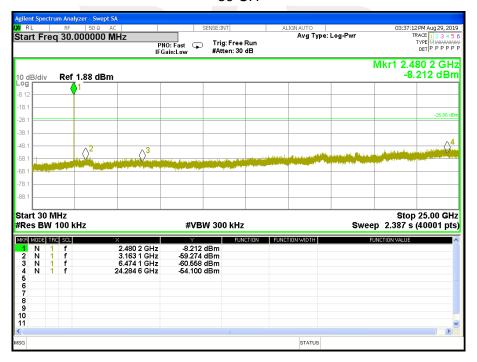




19 CH



39 CH

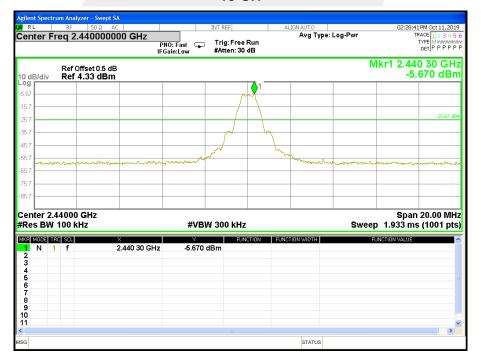




00 CH

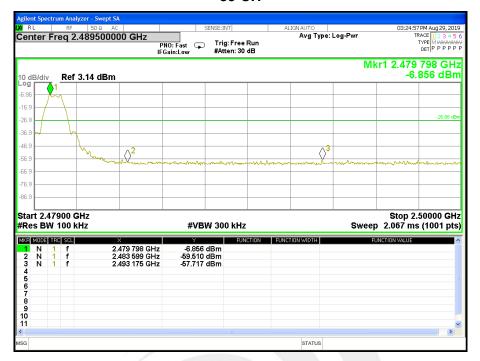


19 CH





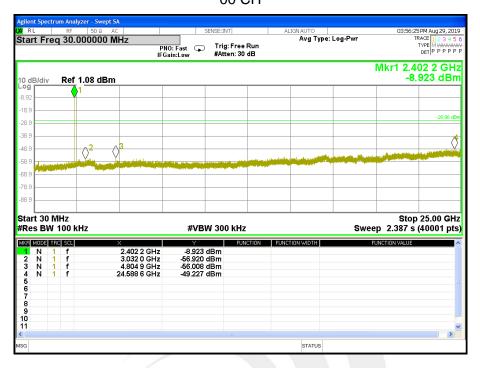
39 CH

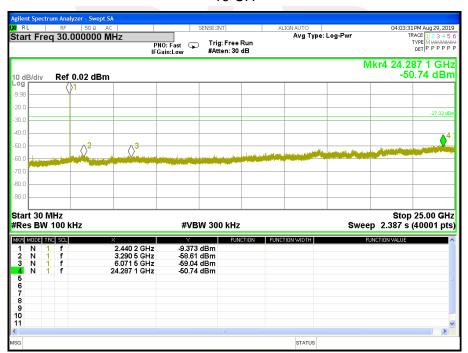




2M PHY 00 CH

Page 37 of 54



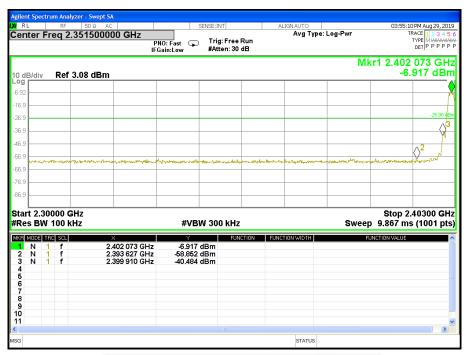


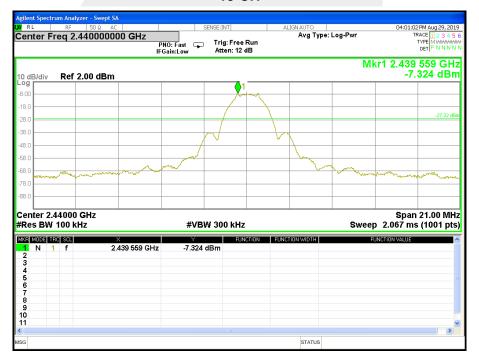






00 CH











6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: STS1908284W03



6.5 TEST RESULTS

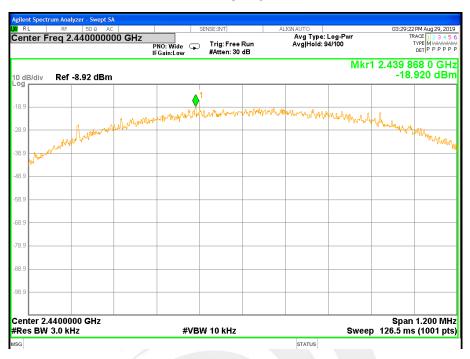
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 7V	LIEST MINUAE.	TX Mode /CH00, CH19, CH39

1M PHY

Eroguenev	Power Density	Limit (dBm/3KHz)	Result	
Frequency	(dBm/3kHz)	Limit (ubm/3KH2)	Kesuit	
2402 MHz	-18.069	≤8	PASS	
2440 MHz	-18.92	≤8	PASS	
2480 MHz	-18.794	≤8	PASS	





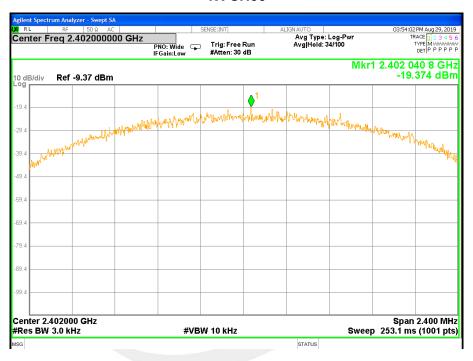




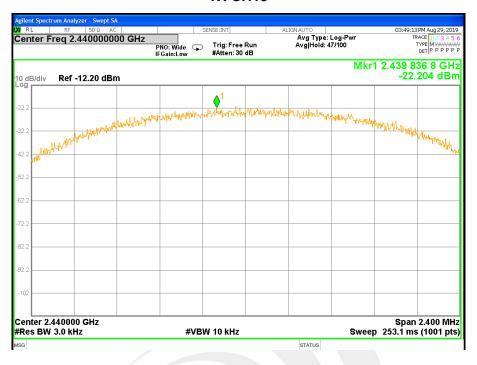


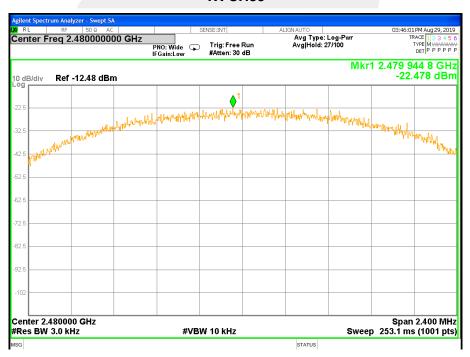
2M PHY

Fraguanay	Power Density	Limit (dBm/3KHz)	Result	
Frequency	(dBm/3kHz)	LIIIII (UBIII/3KHZ)	Result	
2402 MHz	-19.374	≤8	PASS	
2440 MHz	-22.204	≤8	PASS	
2480 MHz	-22.478	≤8	PASS	











7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit Frequency Range (MHz) Result			Result	
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



Report No.: STS1908284W03



7.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 7V	Test Mode:	TX Mode /CH00, CH19, CH39

1M PHY

Frequency	6dB Bandwidth (KHz)	Channel Separation (KHz)	Result
2402 MHz	689.100	≥500KHz	PASS
2440 MHz	702.100	≥500KHz	PASS
2480 MHz	711.200	≥500KHz	PASS









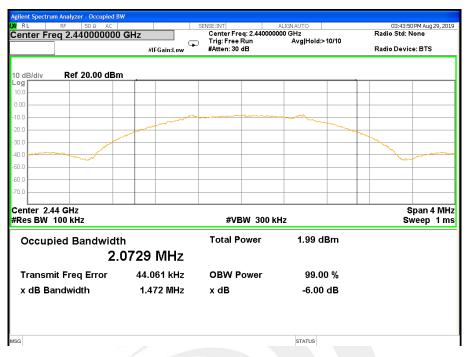


2M PHY

Frequency	6dB Bandwidth (KHz)	Channel Separation (KHz)	Result
2402 MHz	1349.000	≥500KHz	PASS
2440 MHz	1472.000	≥500KHz	PASS
2480 MHz	1420.000	≥500KHz	PASS











8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



Page 52 of 54 Report No.: STS1908284W03

8.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 7V	Test Mode:	TX Mode /CH00, CH19, CH39

1M PHY

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
root onarino	(MHz)	(dBm)	(dBm)	dBm
CH0	2402	-5.04	-5.22	30
CH19	2440	-5.63	-5.81	30
CH39	2480	-6.19	-6.35	30

2M PHY

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
	(MHz)	(dBm)	(dBm)	dBm
CH0	2402	-5.02	-5.21	30
CH19	2440	-5.65	-5.82	30
CH39	2480	-6.16	-6.36	30



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

The EUT antenna is chip Antenna. It comply with the standard requirement.





10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * END OF THE REPORT * * * *

