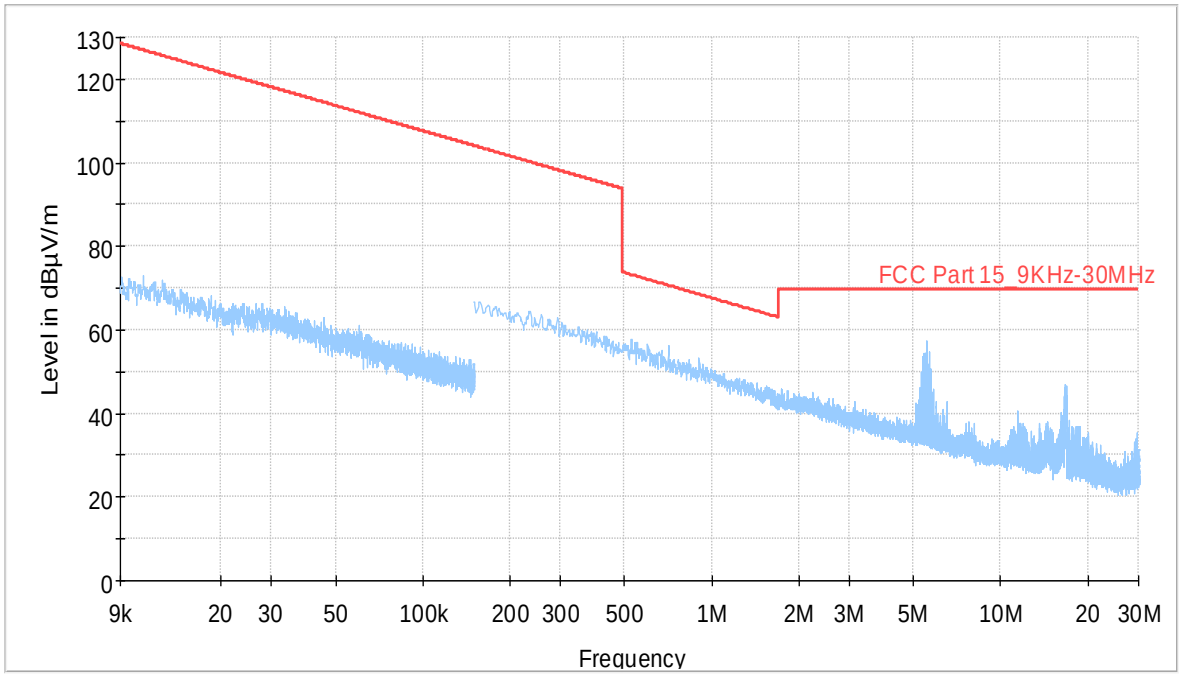
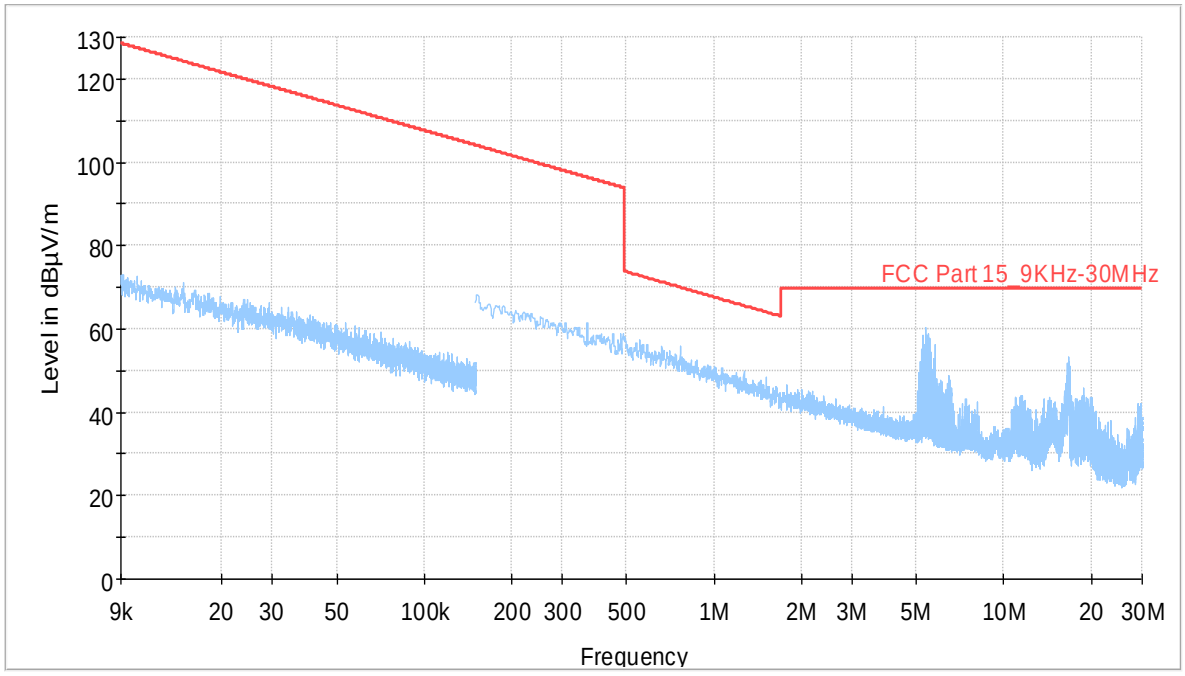


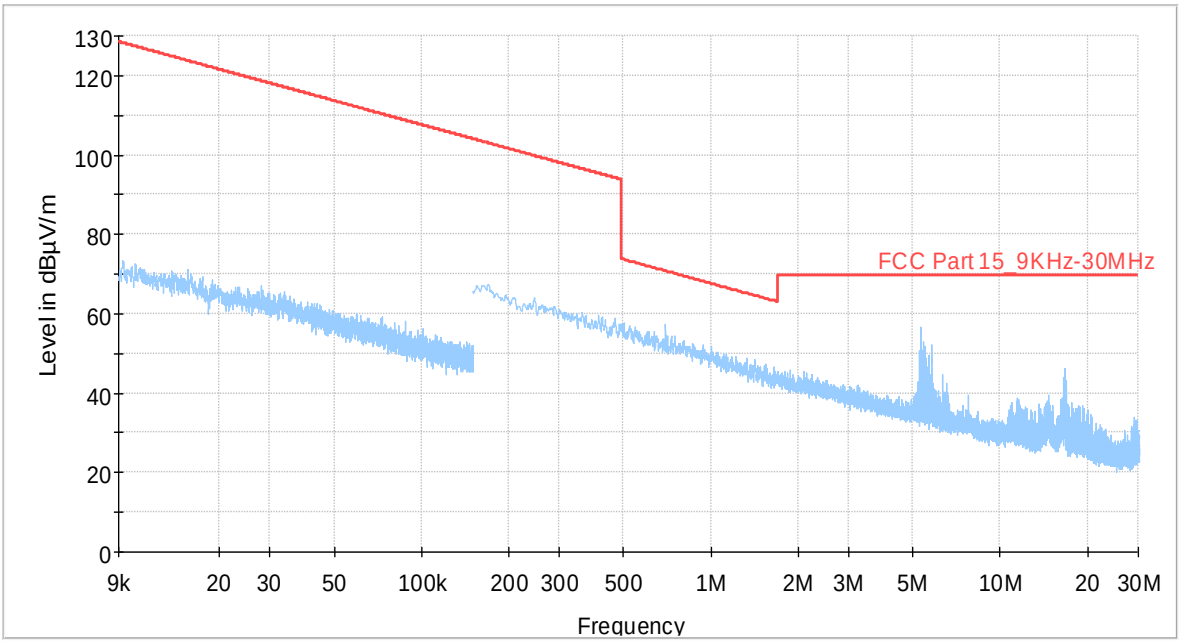
Antenna-2, Channel 1 (903.55 MHz)

Note : Peak Graph - Parallel



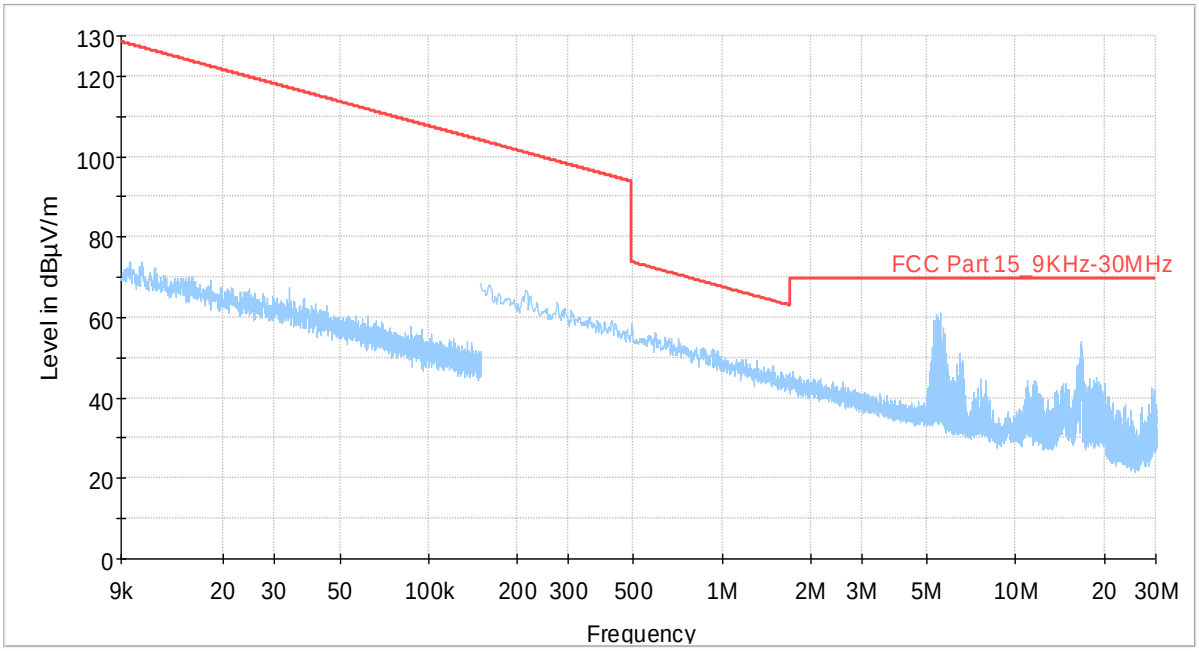
Antenna-2, Channel 1 (903.55 MHz)

Note : Peak Graph - Perpendicular



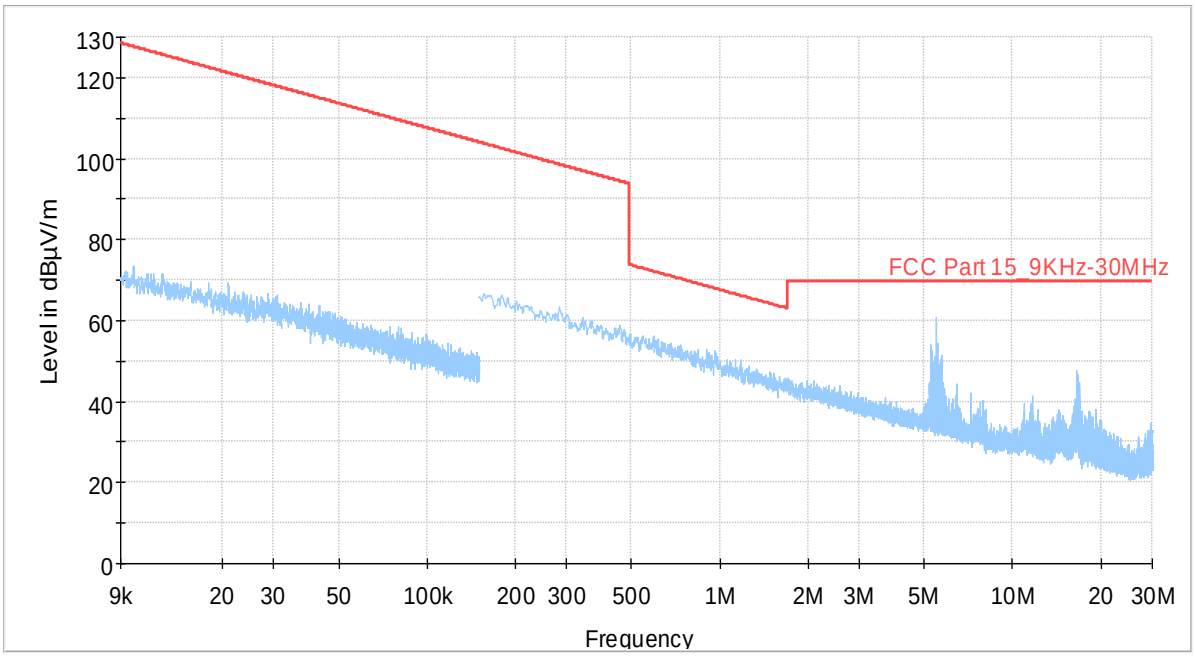
Antenna-2, Channel 28 (916 MHz)

Note : Peak Graph - Parallel



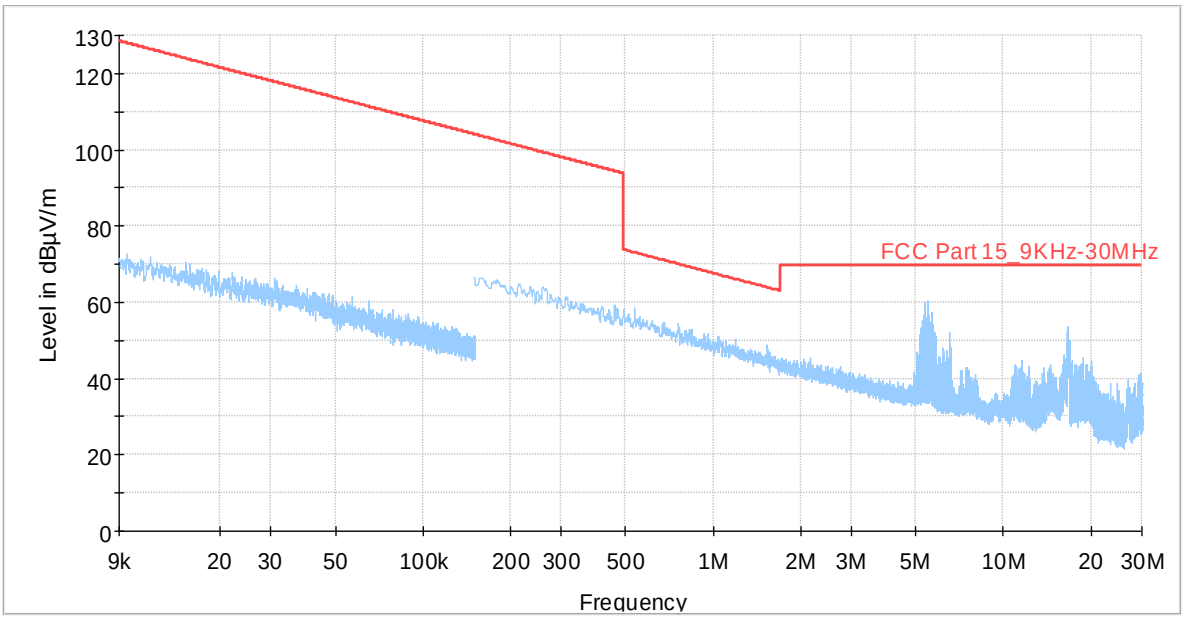
Antenna-2, Channel 28 (916 MHz)

Note : Peak Graph - Perpendicular



Antenna-2, Channel 55 (926.45 MHz)

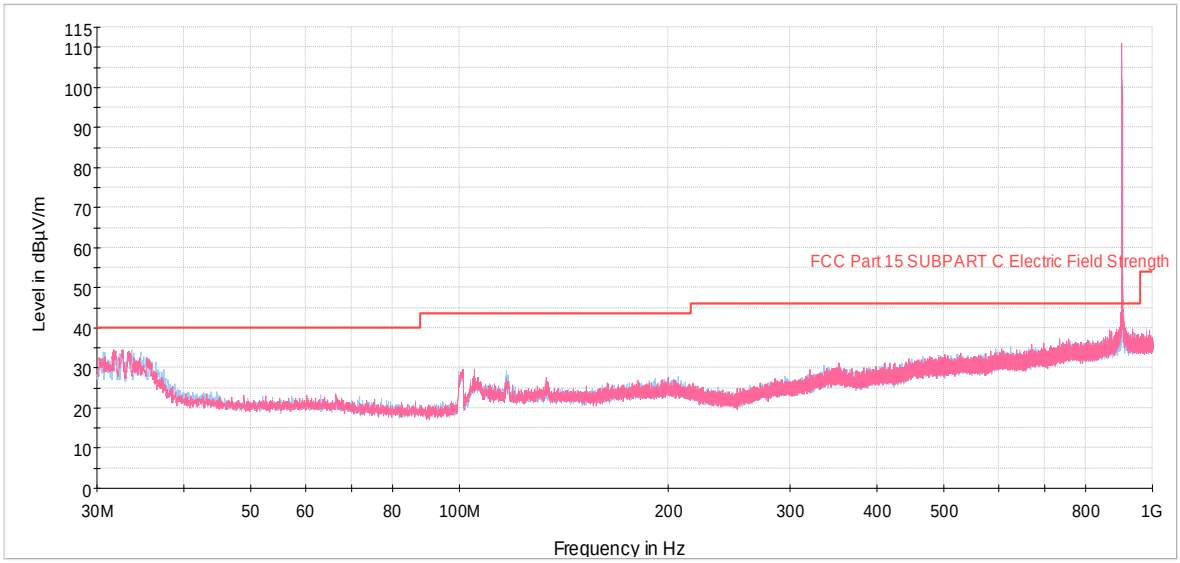
Note : Peak Graph - Parallel



Antenna-2, Channel 55 (926.45 MHz)

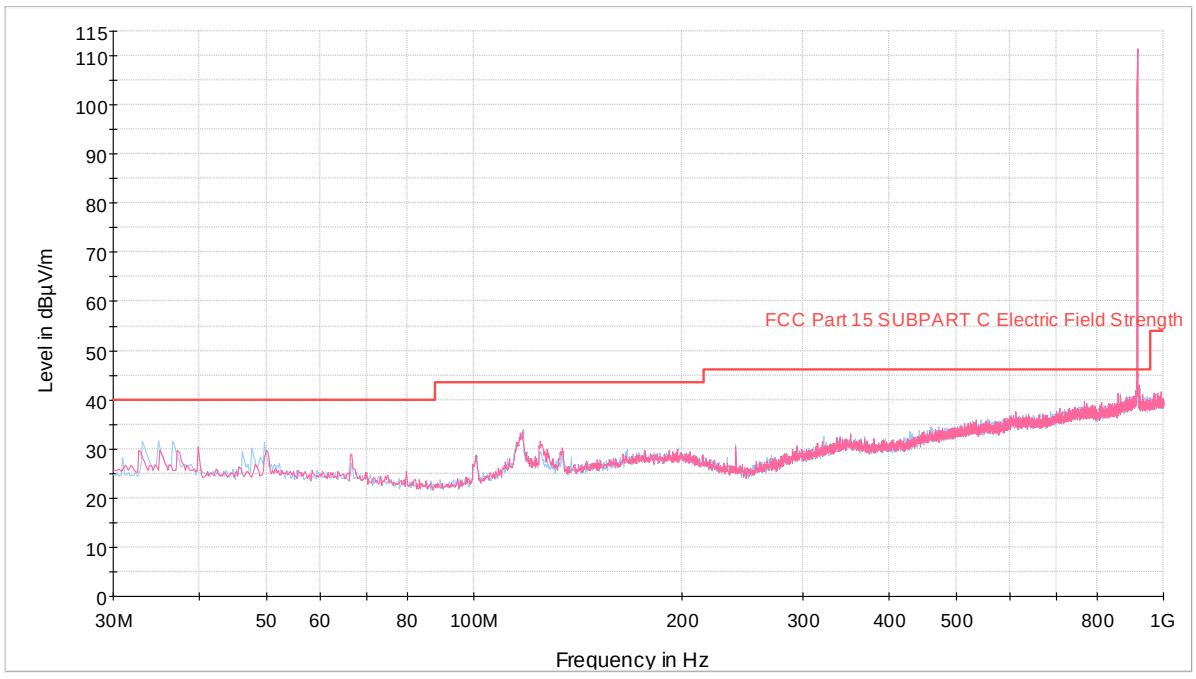
Note : Peak Graph - Perpendicular

TEST RESULT – 9 KHz to 30 MHz									
Channel	Channel Frequency	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	MHz	dBµV/m	cm	Parallel / Perpendicular	deg	dB	dBµV/m	
No emissions detected. Emissions shown in the plot are related to the chamber ambient									
Note : Measured Field Strength –dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									



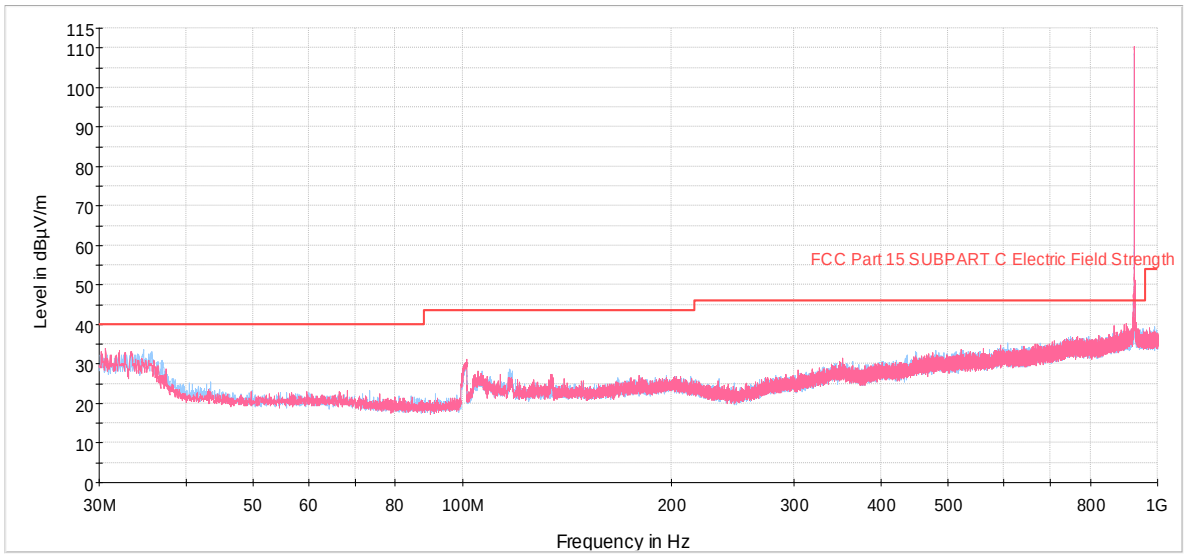
Antenna-2, Channel 1 (903.55 MHz)

Note : Peak Graph Vertical polarization (Red), Peak Graph Horizontal polarization (Blue)



Antenna-2, Channel 28 (916 MHz)

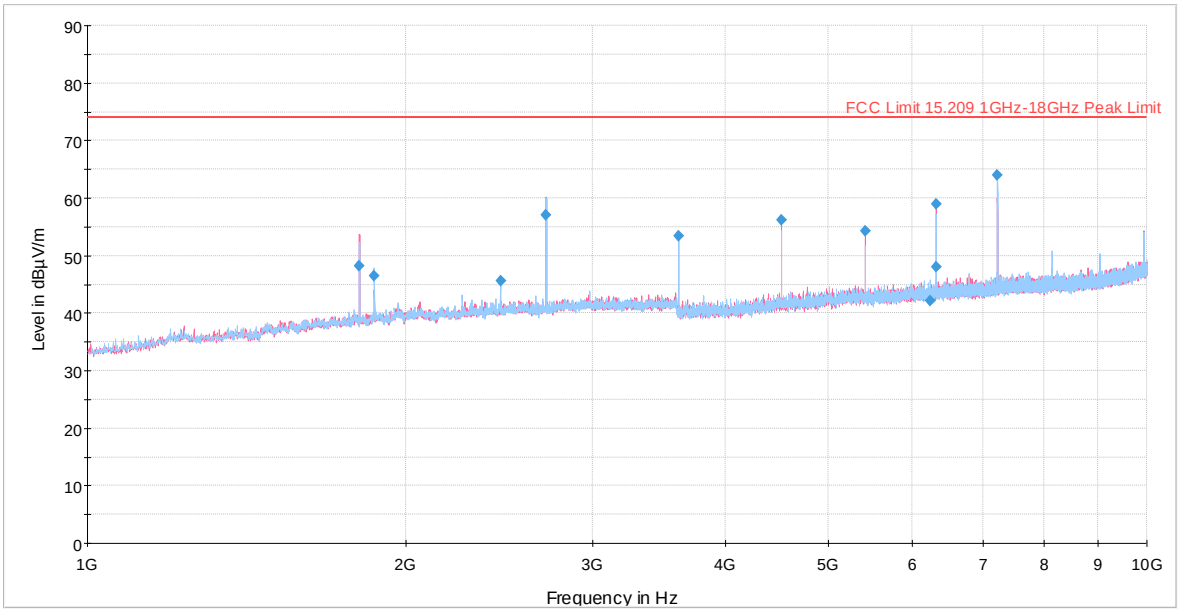
Note : Peak Graph Vertical polarization (Red), Peak Graph Horizontal polarization (Blue)



Antenna-2, Channel 55 (926.45 MHz)

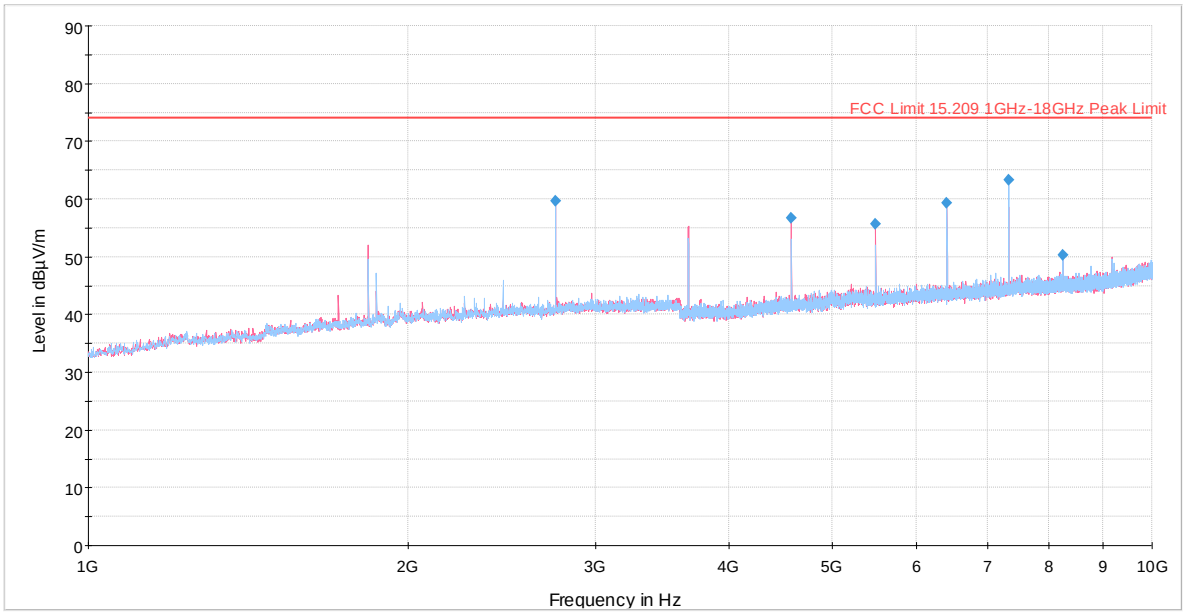
Note : Peak Graph Vertical polarization (Red), Peak Graph Horizontal polarization (Blue)

TEST RESULT – 30MHz to 1GHz								
Channel	**Measured Spurious**	**Quasi Peak**	**Height**	**Ant Pol**	**Azimuth**	**Margin**	**Limit @ 3m Distance**	**Results**
#	**MHz**	**dBµV/m**	**cm**	**H / V**	**deg**	**dB**	**dBµV/m**	
Antenna – 2								
CH-1	604.82	27.13	200	H	216	18.87	46	Pass
CH-1	605.99	27.11	200	V	259	18.89	46	Pass
CH-1	607.34	27.08	400	V	143	18.92	46	Pass
CH-1	756.14	28.77	200	H	247	17.23	46	Pass
CH-1	764.29	28.9	100	V	64	17.1	46	Pass
CH-1	766.42	28.98	300	V	240	17.02	46	Pass
CH-1	903.55	110.83	100	V	152	-	-	Intended Frequency
CH-28	599.78	25.91	400	V	193	20.09	46	Pass
CH-28	600.94	27.17	400	H	312	18.83	46	Pass
CH-28	605.79	27.06	400	V	102	18.94	46	Pass
CH-28	768.36	28.86	200	V	115	17.14	46	Pass
CH-28	774.77	28.93	400	V	7	17.07	46	Pass
CH-28	775.54	28.94	300	H	154	17.06	46	Pass
CH-28	916.39	110.3	100	V	316	-	-	Intended Frequency
CH-55	866.14	29.77	400	V	73	16.23	46	Pass
CH-55	867.30	29.82	400	V	0	16.18	46	Pass
CH-55	926.15	110.38	100	V	320	-	-	Intended Frequency
NOTE: Measured Field Strength –dBuV/m (30MHz to 1 GHz) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)								



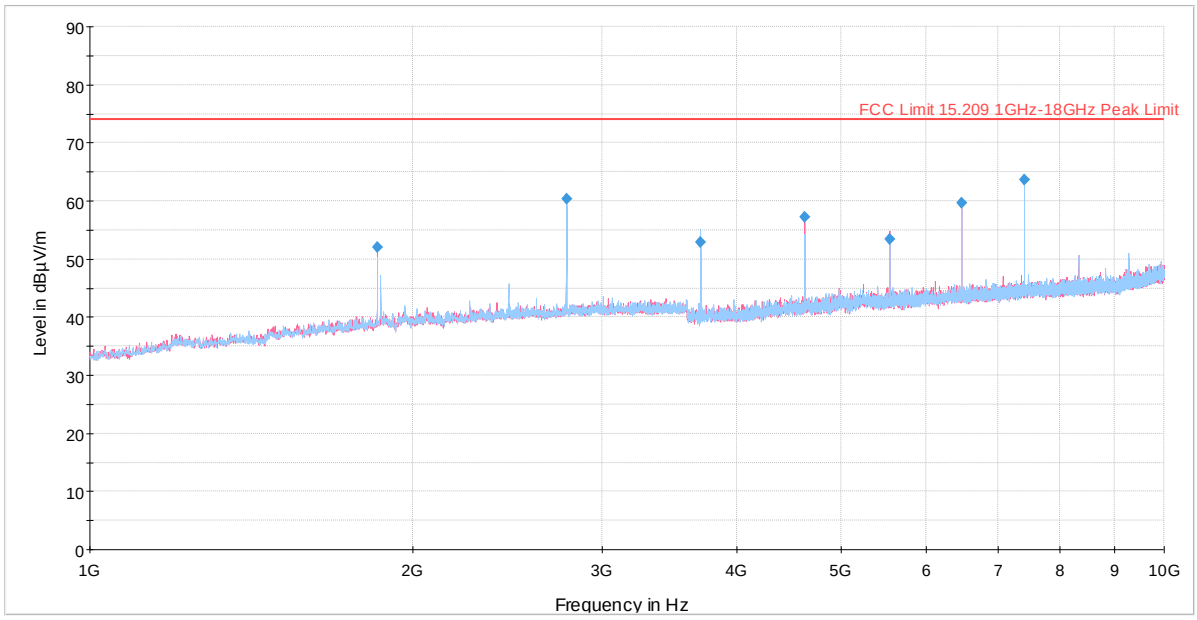
Antenna-2, Channel 1 (903.55 MHz)

Note : Peak Graph Vertical (Red), Peak Graph Horizontal polarization (Blue)



Antenna-2, Channel 28 (916 MHz)

Note : Peak Graph Vertical (Red), Peak Graph Horizontal polarization (Blue)



Antenna-2, Channel 55 (926.45 MHz)

Note : Peak Graph Vertical (Red), Peak Graph Horizontal polarization (Blue)

TEST RESULT – 1 GHz to 10 GHz RESTRICTED BAND – PEAK & AVERAGE											
Channel	Frequency	Measured Field Strength Peak	Height	Ant Pol	Azimuth	Peak Margin	Peak Limit	Calculated Average Reading [Peak – Duty cycle]	Average Limit	Average Margin	Result
#	MHz	dBµV/m	cm	H / V	deg	dB	dBµV/m	dBµV/m	dBµV/m	dBµV/m	
Antenna – 2											
CH-1	2710.00	57.08	200	V	31	16.92	74	38.95	54	15.05	PASS
CH-1	3613.60	53.34	400	V	41	20.66	74	35.21	54	18.79	PASS
CH-1	4517.20	56.24	300	V	31	17.76	74	38.11	54	15.89	PASS
CH-1	5421.70	54.22	300	V	31	19.78	74	36.09	54	17.91	PASS
CH-28	2748.70	59.71	100	H	340	14.29	74	41.58	54	12.42	PASS
CH-28	4582.00	56.66	300	V	4	17.34	74	38.53	54	15.47	PASS
CH-28	7331.50	63.33	200	H	99	10.67	74	45.2	54	8.8	PASS
CH-28	8247.70	50.36	300	H	340	23.64	74	32.23	54	21.77	PASS
CH-55	2778.40	60.33	100	H	318	13.67	74	42.2	54	11.8	PASS
CH-55	3703.60	52.85	400	H	307	21.15	74	34.72	54	19.28	PASS
CH-55	4630.60	57.28	200	V	21	16.72	74	39.15	54	14.85	PASS
CH-55	7408.00	63.6	200	H	98	10.4	74	45.47	54	8.53	PASS

Note :
Measured Field Strength –Peak dBuV/m = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss – Ext. Pre amplifier Gain (dB)

Cal. Average Readings(dBuV/m) =Measured Peak(dBuV/m)-Duty Cycle Correction Factor(dB)

Duty Cycle Correction Factor is calculated using the guidelines provided in DA 00-705

Duty Cycle Factor =20*log (Dwell time /100msec) , Number of Transmission for 100msec: 8, Dwell time per Transmission: 1.55msec
Duty Cycle correction Factor =20 log (1.55*8/100) = -18.13dB

TEST RESULT – 1 GHz to 10 GHz							NON RESTRICTED BAND - PEAK		
Channel	Measured Fundamental	Spurious Emission	Measured Harmonic	Height	Ant Pol	Azimuth	Limit [Fundamental – 20 dB]	Margin	Results
#	dBµV/m	MHz	dBµV/m	cm	H / V	deg	dBuV/m	dB	
Antenna – 2									
CH-1	110.43	1806.40	48.2	200	V	343	90.43	42.23	PASS
CH-1	110.43	1864.90	46.53	400	H	16	90.43	43.9	PASS
CH-1	110.43	2454.40	45.54	400	H	0	90.43	44.89	PASS
CH-1	110.43	6242.50	42.1	200	H	110	90.43	48.33	PASS
CH-1	110.43	6324.40	58.92	400	V	9	90.43	31.51	PASS
CH-1	110.43	6326.20	47.97	200	V	343	90.43	42.46	PASS
CH-1	110.43	7228.00	63.93	400	H	263	90.43	26.5	PASS
CH-28	110.3	5498.20	55.58	400	V	328	90.3	34.72	PASS
CH-28	110.3	6414.40	59.3	400	H	249	90.3	31	PASS
CH-55	110.38	1852.30	51.97	200	V	302	90.38	38.41	PASS
CH-55	110.38	5555.80	53.38	300	V	47	90.38	37	PASS
CH-55	110.38	6482.80	59.57	400	V	12	90.38	30.81	PASS

Note :

Measured Harmonic Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)

TEST SETUP PHOTOGRAPHS

Refer Annexure -1

Radiated Emission Test Setup

3 DTS CHANNELS

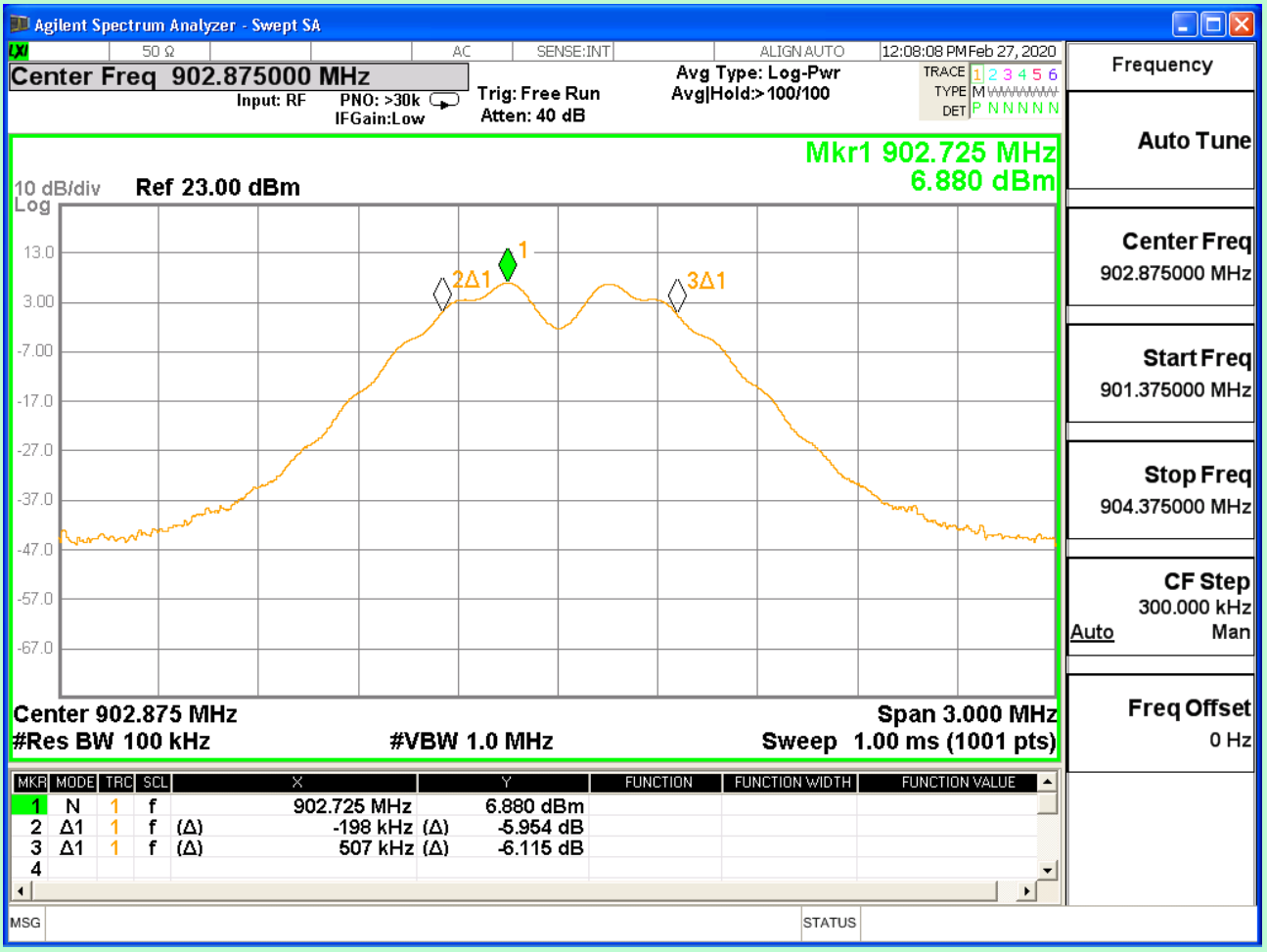
3.1 6dB BANDWIDTH

EUT Nomenclature	Wireless Sync Module	**Test Request No.**	EMC0422-1
Model No.	W-SYNC	**Serial No.**	110
Test Start Date	14 - Dec - 2019	**Temperature (°C)**	24.6°C
Test End Date	26 - Feb - 2020	**Humidity RH (%)**	53.9%RH
Tested By	Vinay Gujjar	**Pressure (mbar)**	NR
Input Voltage / Freq.	24Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		
TEST DETAILS			
Method	Radiated ☐	Conducted ☒	
TEST PARAMETERS			
Antenna Height	NA	**Turntable Rotation**	NA
Equipment Class	NA	**Measurement Distance**	NA

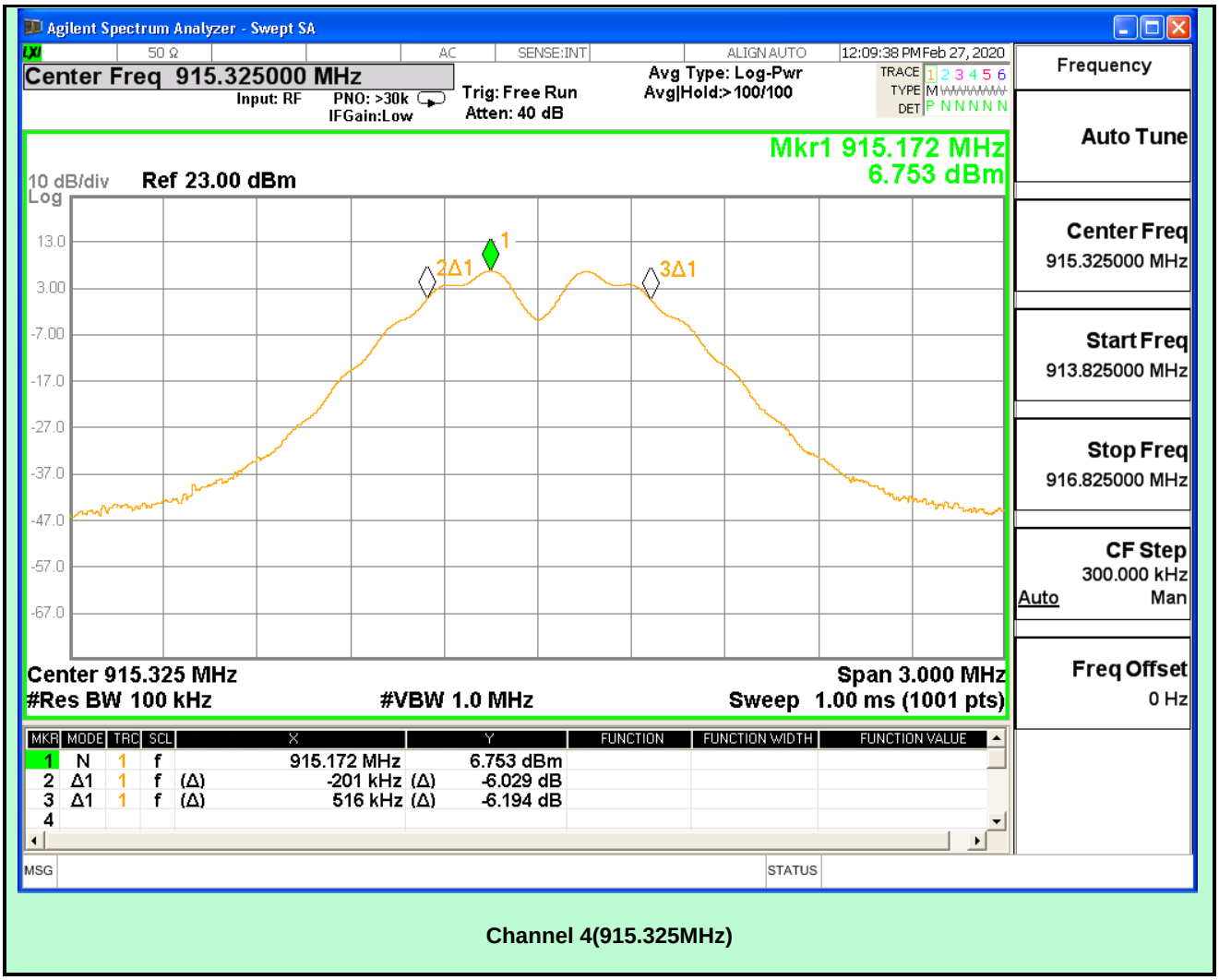
TEST EQUIPMENT

Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	27-Feb-2021
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

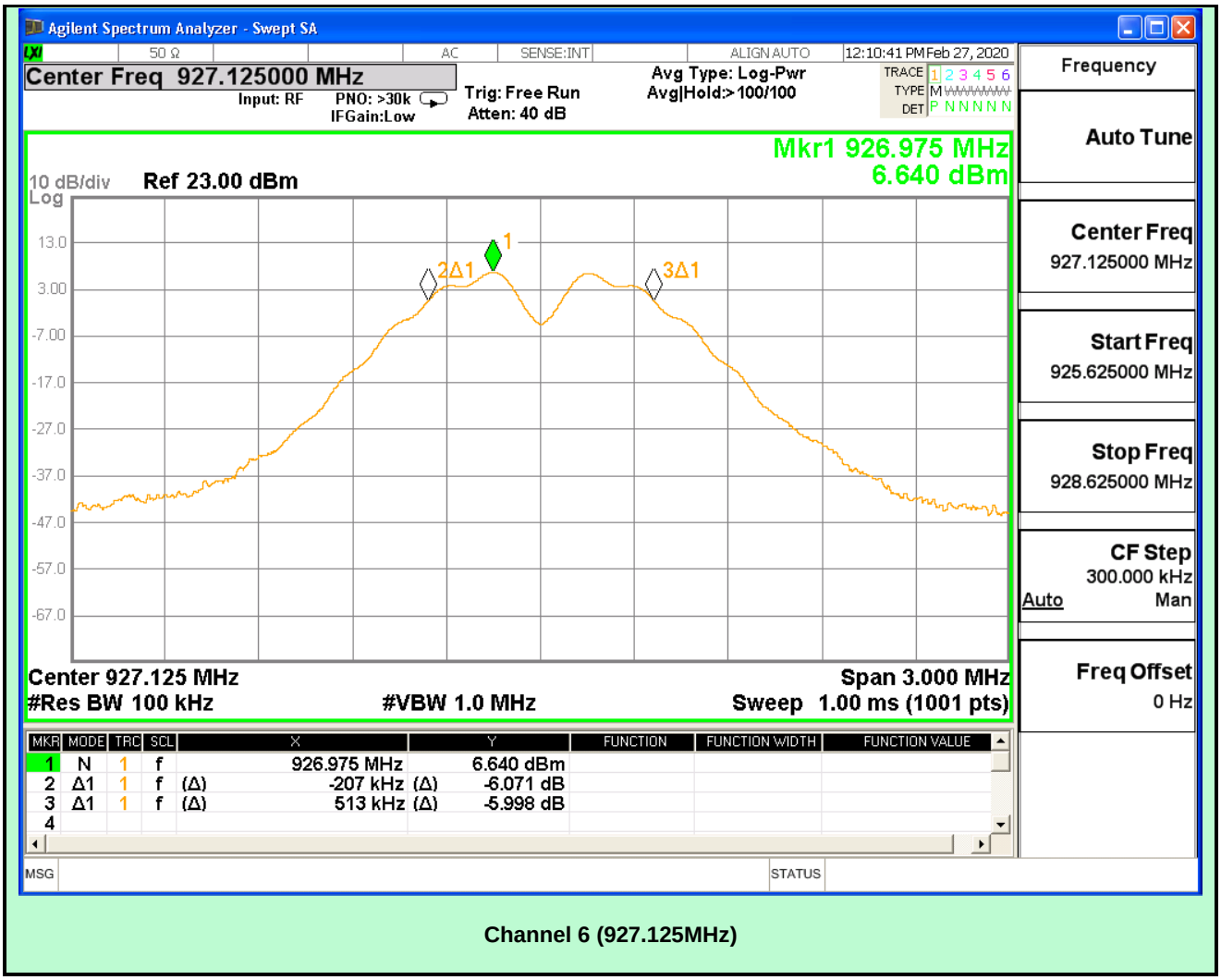
TEST GRAPHS



Channel 1 (902.875MHz)



Channel 4(915.325MHz)



Channel 6 (927.125MHz)

TEST RESULT				
Channel #	Frequency MHz	Measured Bandwidth KHz	Limit KHz	Result
1	902.875	705	>500	PASS
4	915.325	717	>500	PASS
6	927.125	720	>500	PASS

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

3.2 PEAK OUTPUT POWER LEVEL

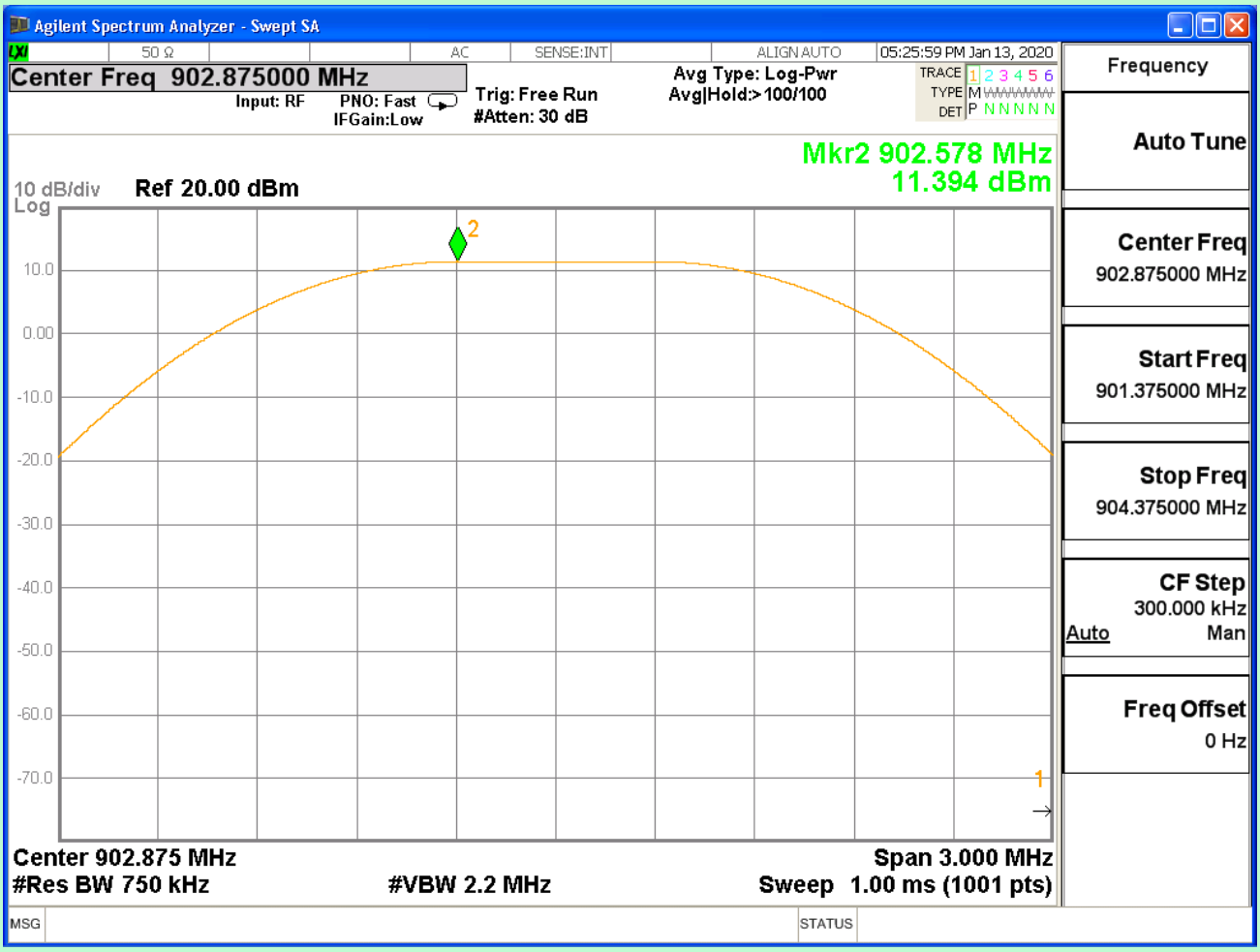
EUT Nomenclature	Wireless Sync Module	**Test Request No.**	EMC0422-1
Model No.	W-SYNC	**Serial No.**	110
Test Start Date	16 - Dec- 2019	**Temperature (˚C)**	23.6°C
Test End Date	26 - Feb - 2020	**Humidity RH (%)**	51.9%RH
Tested By	Vinay Gujjar	**Pressure (mbar)**	NR
Input Voltage / Freq.	24Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

TEST DETAILS		
Method	Radiated ☐	Conducted ☒

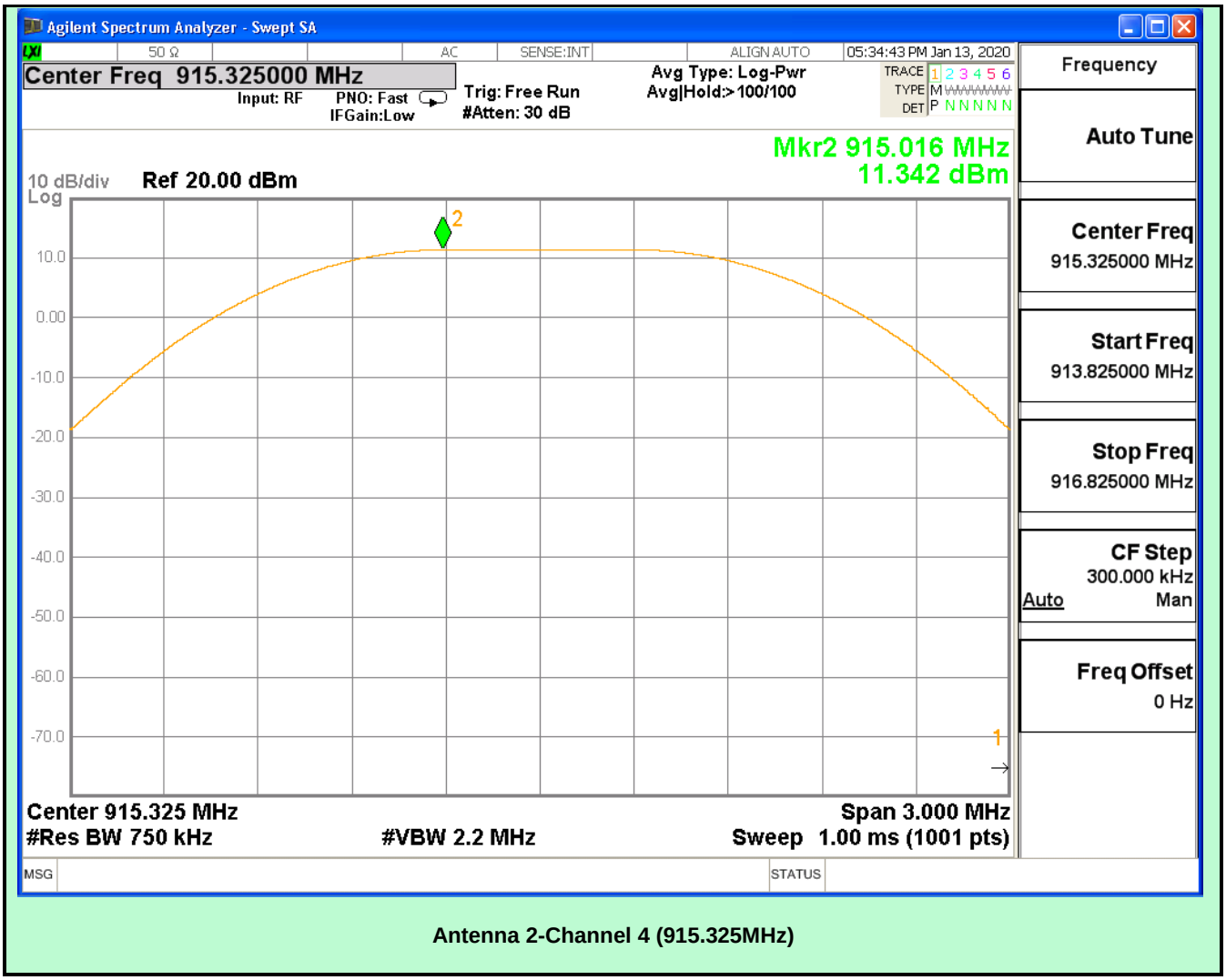
TEST PARAMETERS			
Antenna Height	NA	**Turntable Rotation**	NA
Equipment Class	NA	**Measurement Distance**	NA

TEST EQUIPMENT					
Y/N	**Equipment**	**Make**	**Model**	**Sl. No.**	**Cal Due Date**
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	27-Feb-2021
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

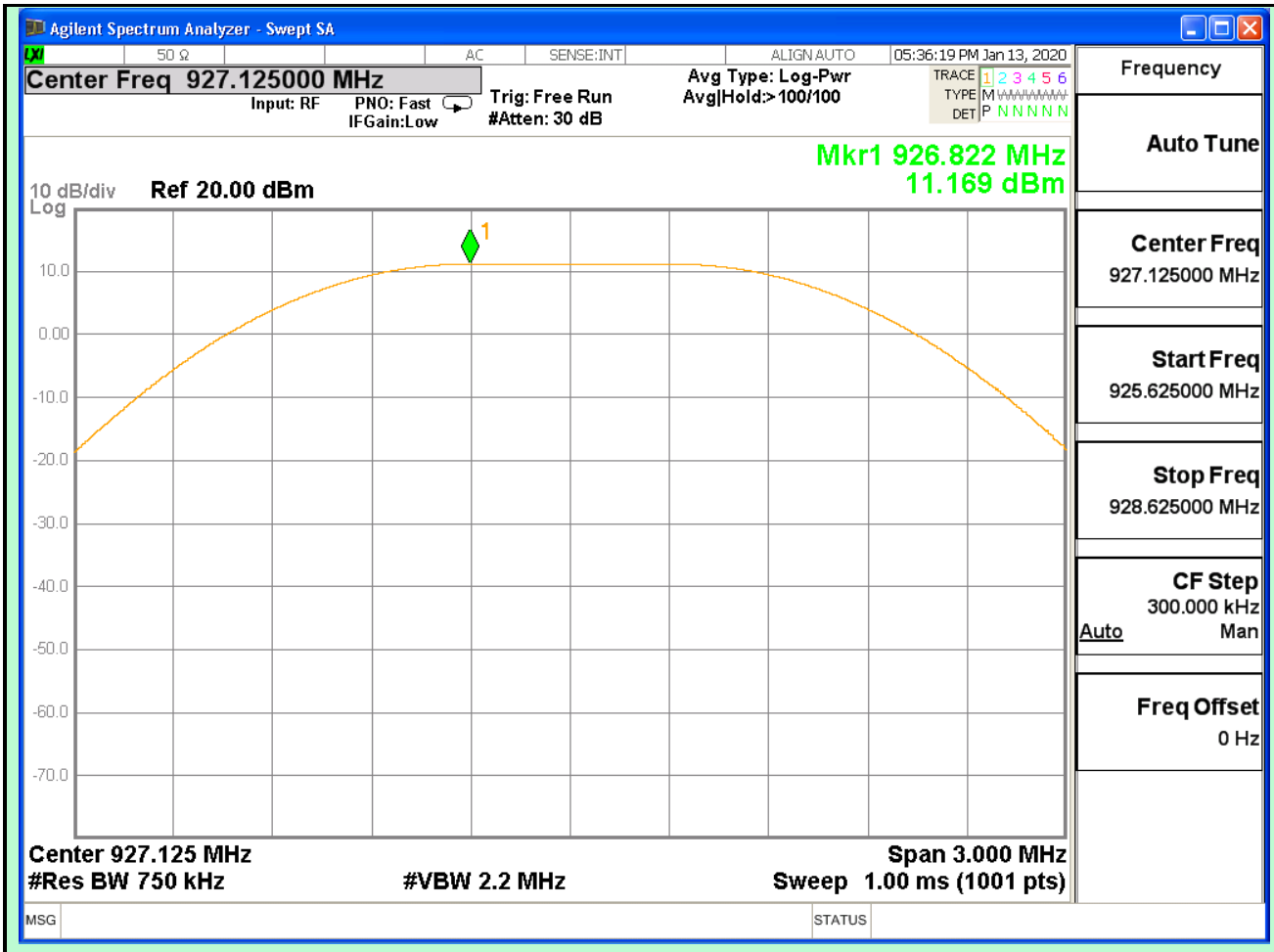
TEST GRAPHS



Antenna 2- Channel 1 (902.875MHz)



Antenna 2-Channel 4 (915.325MHz)



Antenna 2-Channel 6 (927.125MHz)

TEST RESULT

Channel	Frequency	Measured Power Level	Cable Loss	Transmitter Power Level	Limit	Result
#	MHz	dBm	dB	dBm	dBm	
Antenna 2						
1	902.875	11.39	0.6	11.99	≤30	PASS
4	915.325	11.34	0.6	11.94	≤30	PASS
6	927.125	11.16	0.6	11.76	≤30	PASS
Note: Transmitter Output Power = Measured Level (dBm) + Cable Loss (dB)						

TEST SETUP PHOTOGRAPH

Refer Annexure -1

Conducted RF Test setup

3.3 MAXIMUM POWER SPECTRAL DENSITY

EUT Nomenclature	Wireless Sync Module	**Test Request No.**	EMC0422-1
Model No.	W-SYNC	**Serial No.**	110
Test Start Date	14 - Dec - 2019	**Temperature (˚C)**	23.6°C
Test End Date	26 - Feb - 2020	**Humidity RH (%)**	51.9%RH
Tested By	Vinay Gujjar	**Pressure (mbar)**	NR
Input Voltage / Freq.	24Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		

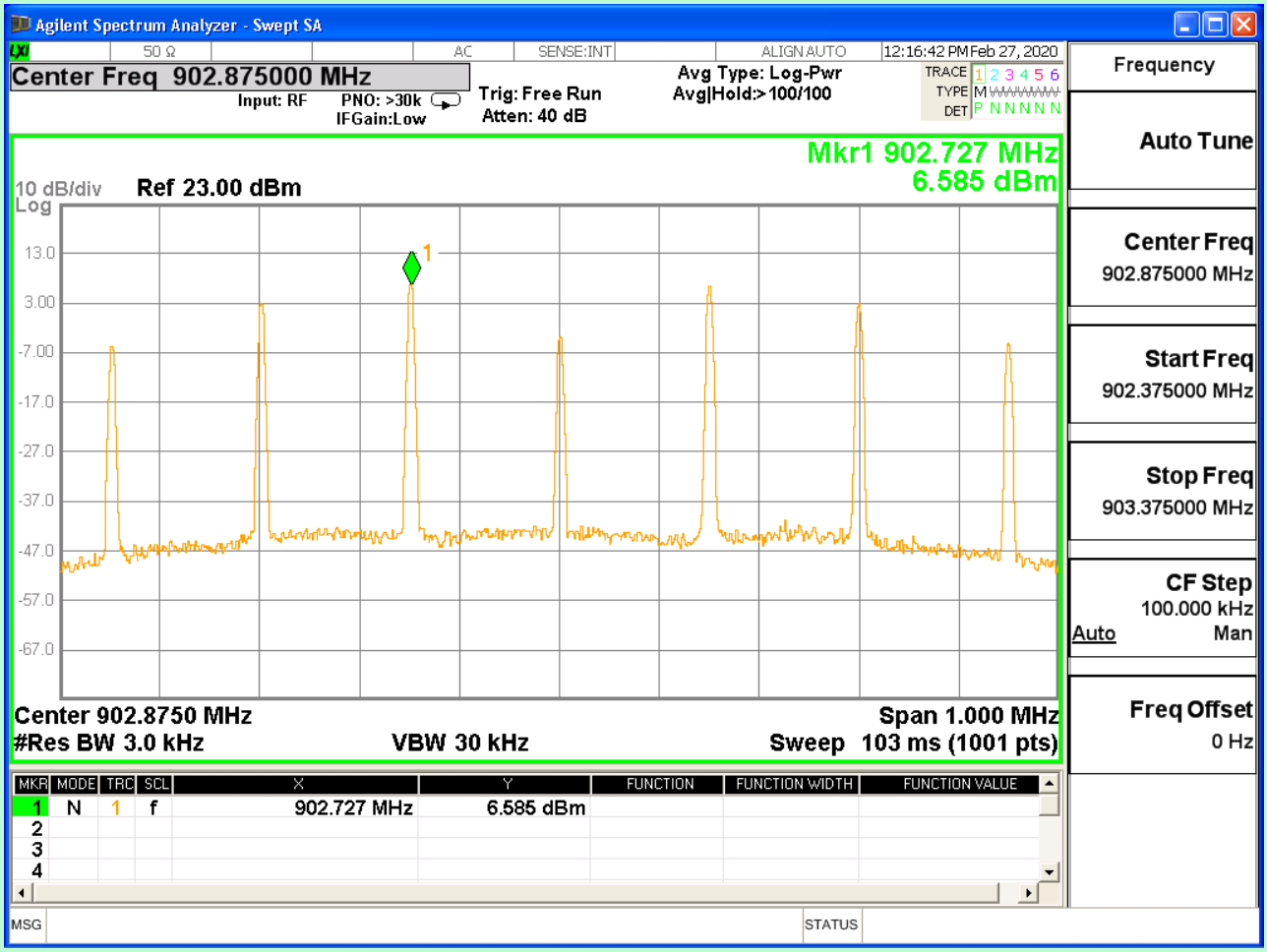
TEST DETAILS		
Method	Radiated ☐	Conducted ☒

TEST PARAMETERS			
Antenna Height	NA	**Turntable Rotation**	NA
Equipment Class	NA	**Measurement Distance**	NA

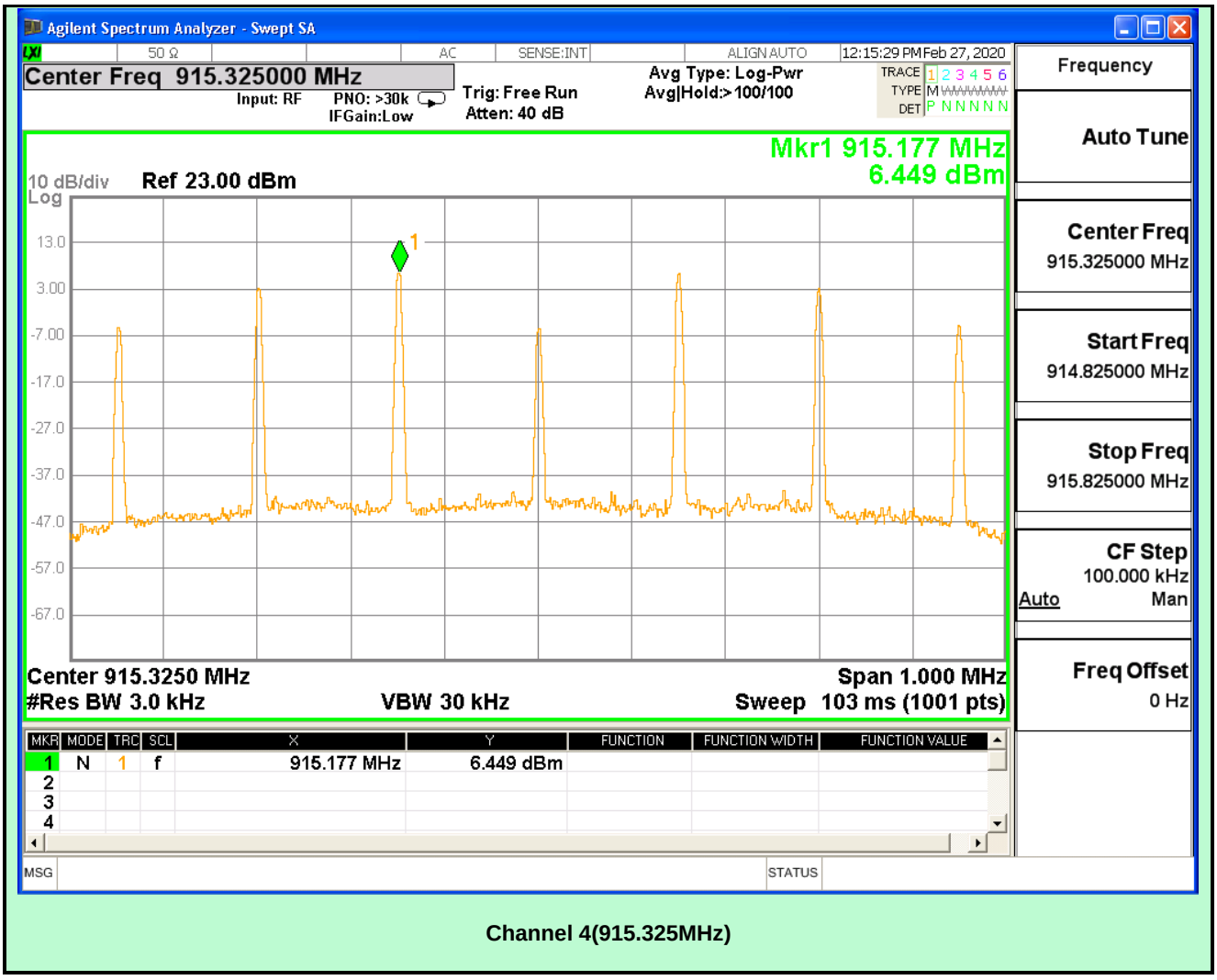
TEST EQUIPMENT

Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	27-Feb-2021
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

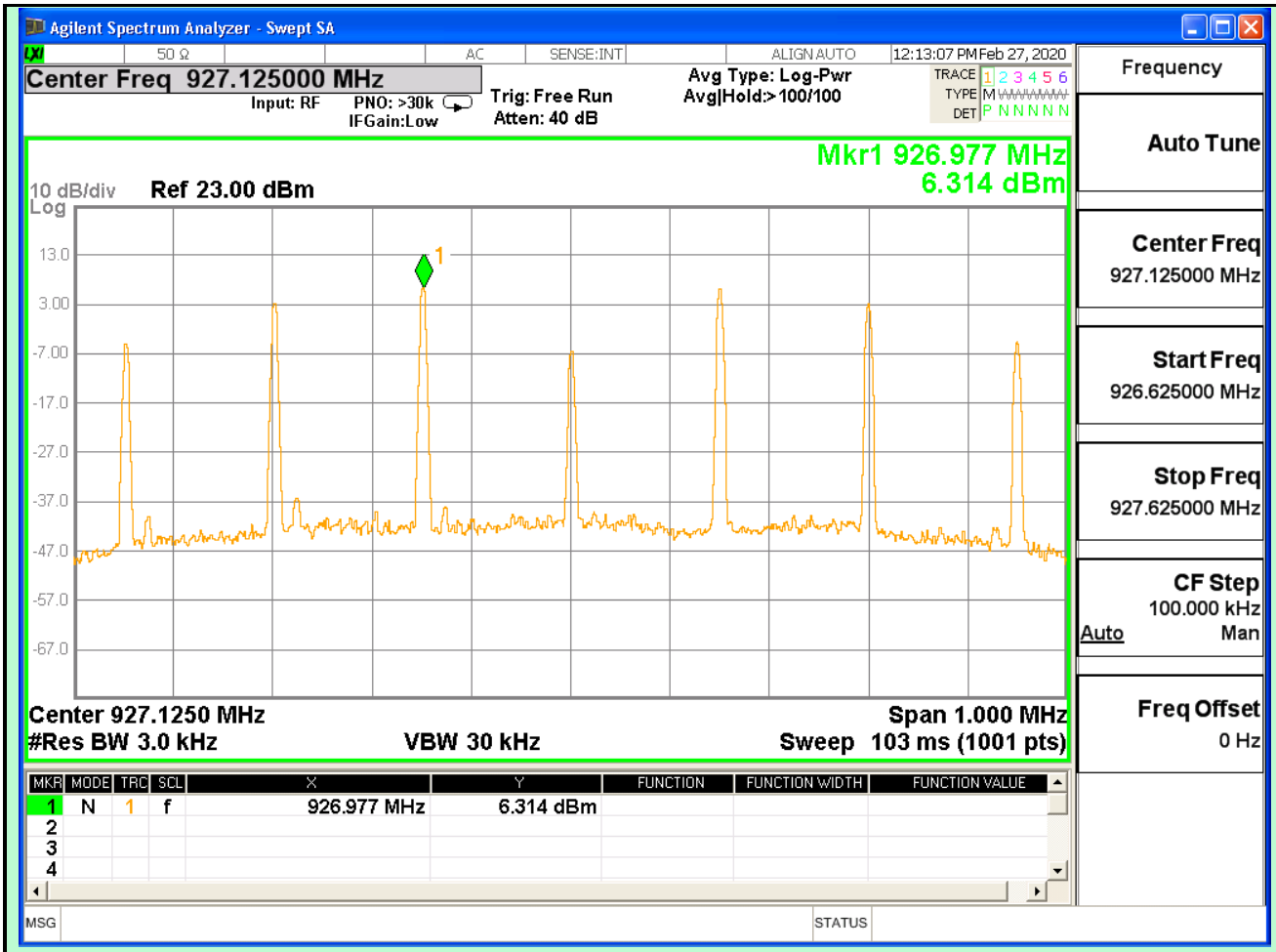
TEST GRAPHS



Channel 1 (902.875MHz)



Channel 4(915.325MHz)



Channel 6 (927.125MHz)

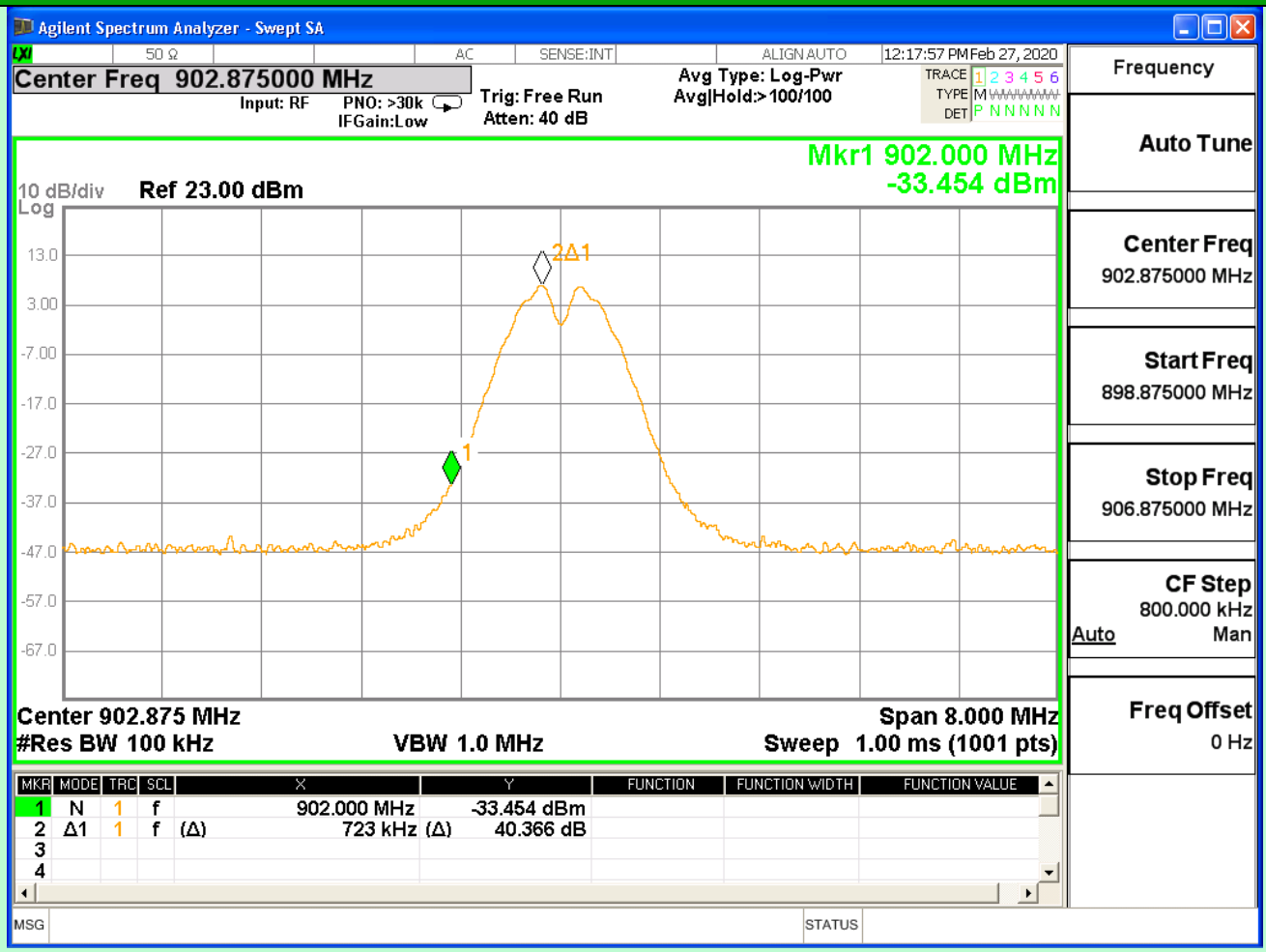
TEST RESULT				
Channel #	Frequency MHz	Measured Level dBm/3KHz	Limit dBm/3KHz	Result
1	902.875	6.585	<8	PASS
4	915.325	6.449	<8	PASS
6	927.125	6.314	<8	PASS

TEST SETUP PHOTOGRAPH
Refer Annexure -1 **Conducted RF Test setup**

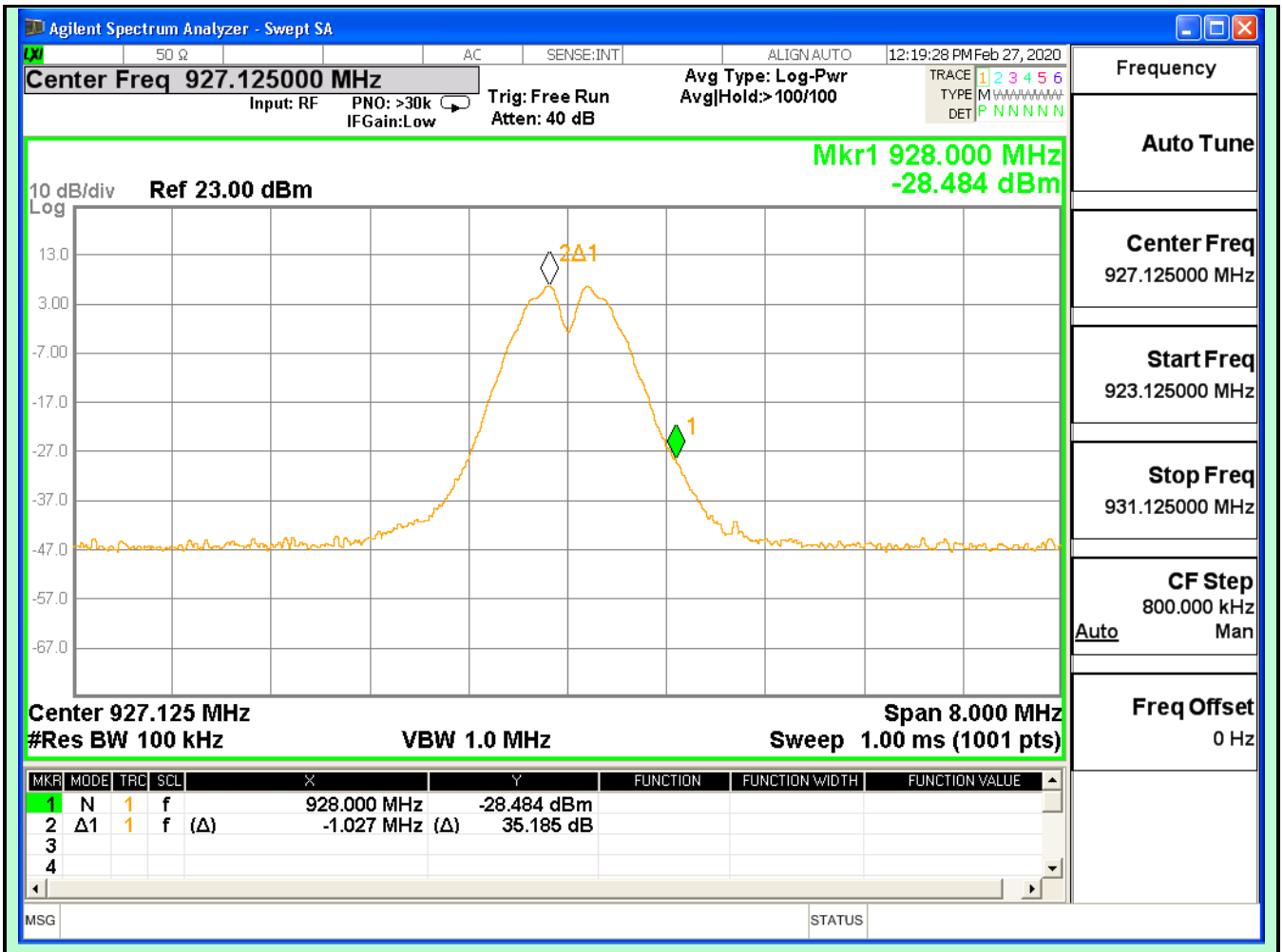
3.4 BAND EDGE COMPLIANCE			
EUT Nomenclature	Wireless Sync Module	**Test Request No.**	EMC0422-1
Model No.	W-SYNC	**Serial No.**	110
Test Start Date	14 - Dec - 2019	**Temperature (˚C)**	24.5°C
Test End Date	26 -Feb - 2020	**Humidity RH (%)**	51.5%RH
Tested By	Vinay Gujjar	**Pressure (mbar)**	NR
Input Voltage / Freq.	24Vdc		
Operating Mode	Refer Page 5 for Operating Mode Table		
Test configuration	Refer Page 5 for Test Configuration Table		
Deviation from Std.	NA		
Applicable standard	FCC Part 15.247:2010		
Test Method	KDB 558074		
Comment	NA		
TEST DETAILS			
Method	Radiated ☐	Conducted ☒	
TEST PARAMETERS			
Antenna Height	NA	**Turntable Rotation**	NA
Equipment Class	NA	**Measurement Distance**	NA

TEST EQUIPMENT					
Y/N	**Equipment**	**Make**	**Model**	**Sl. No.**	**Cal Due Date**
Y	Spectrum Analyzer	Agilent	N9010A	MY48031005	27-Feb-2021
Y	RF Cable	Huber- Suhner	SF104/2X11PC3542/500	NA	NA

TEST GRAPHS



Channel 1 (902.875MHz)



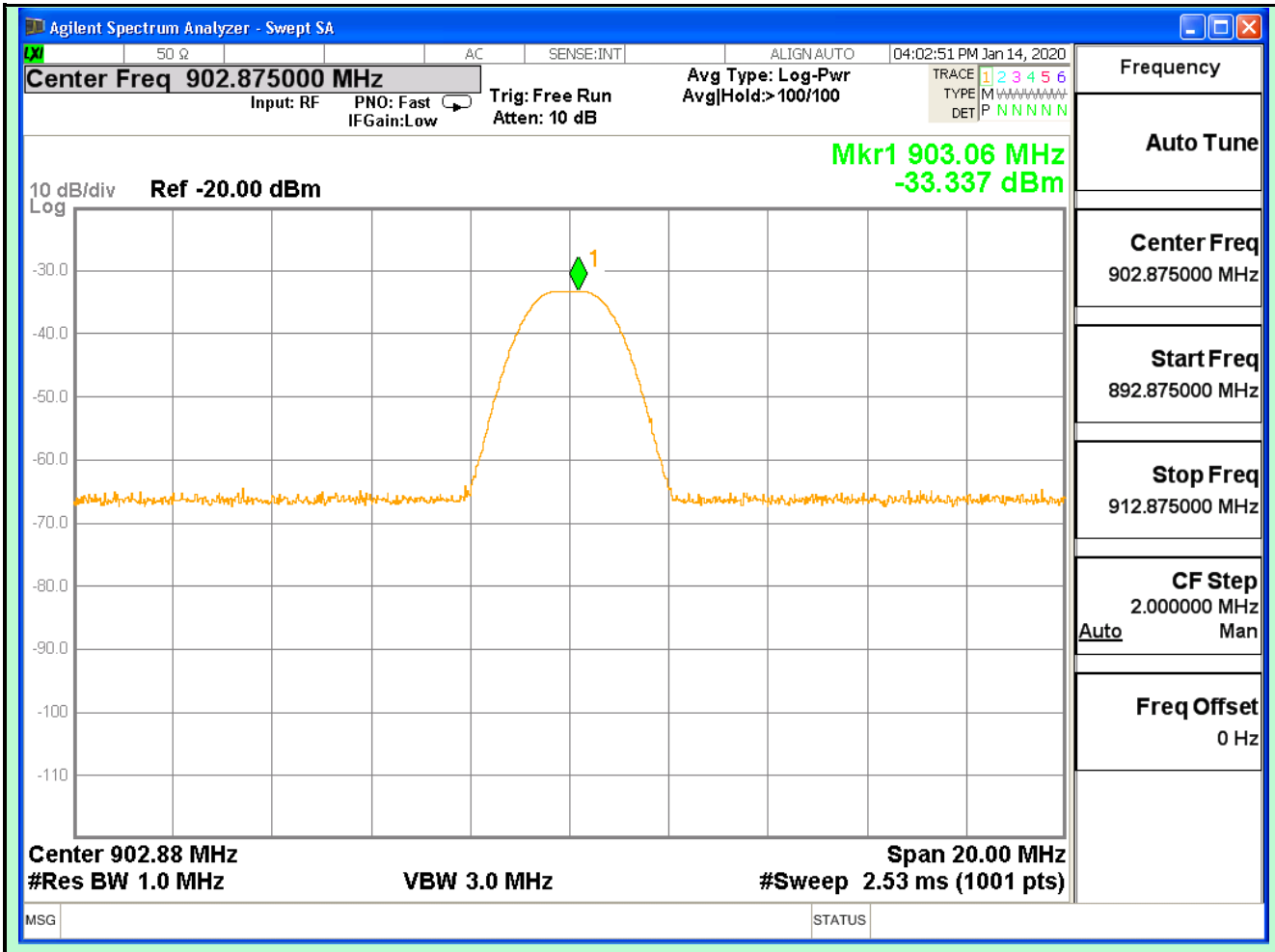
Channel 6 (927.125MHz)

TEST RESULT				
Channel #	Frequency MHz	Measured Level dBm/3KHz	Limit dBm/3KHz	Result
1	902.875	40.366	>20	PASS
6	927.125	35.185	>20	PASS

TEST SETUP PHOTOGRAPH
Refer Annexure -1
Conducted RF Test setup

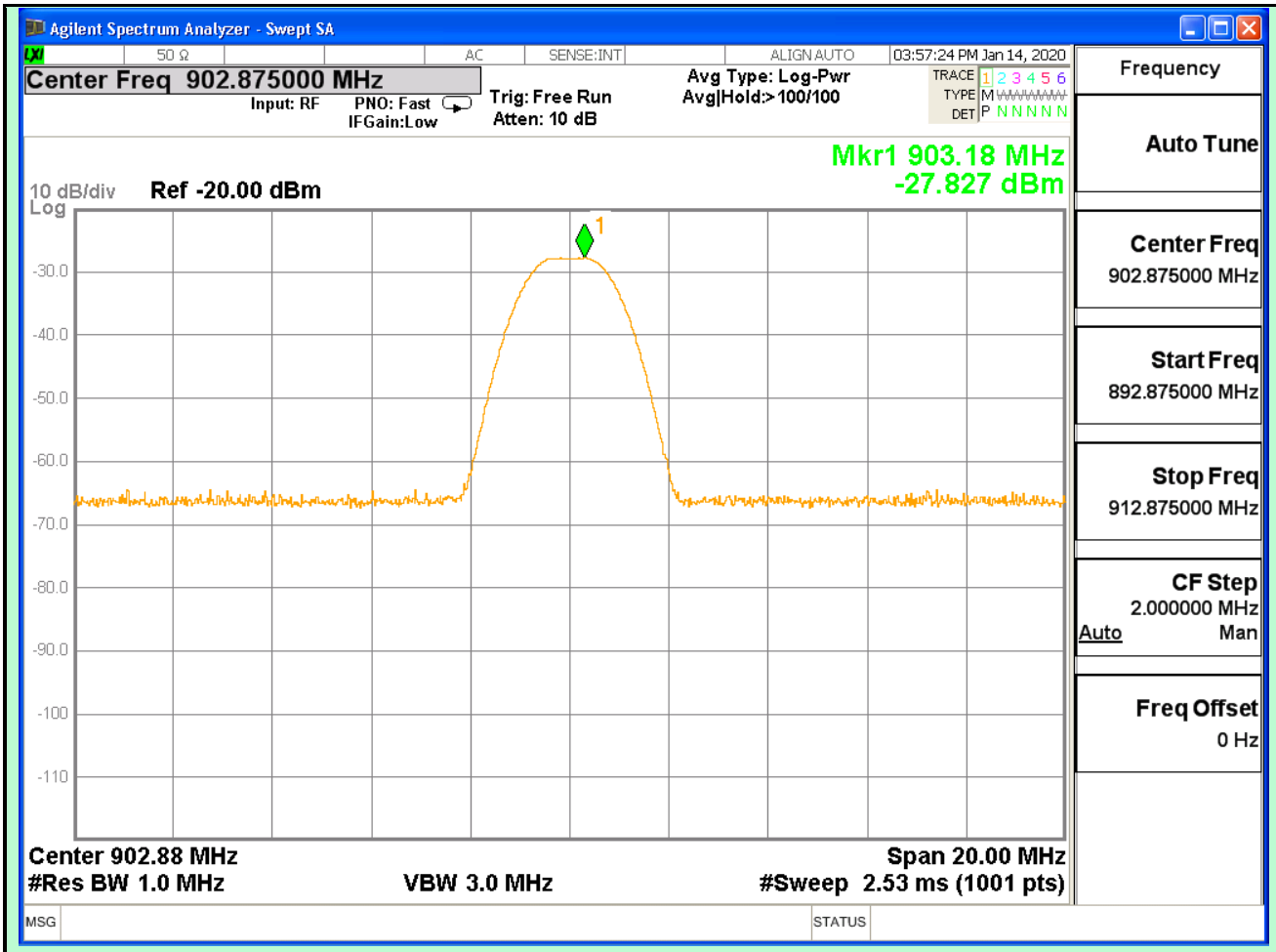
3.5 EFFECTIVE ISOTROPIC RADIATED POWER			
EUT Nomenclature	Wireless Sync Module	**Test Report No.**	EMC0422-1
Model No.	W-SYNC	**Serial No.**	110
Test Start Date	14-Dec-2019	**Temperature (˚C)**	22.3±2
Test End Date	26-Feb-2020	**Humidity RH (%)**	54±2
Tested By	Vinay Gujjar	**Pressure (mbar)**	
Input Voltage / Freq	24Vdc		
Operating Mode	Refer Page 5 Operating Modes Table		
Test configuration	Refer Page 5 Test Configuration Table		
Deviation from Std	NA		
Comment	Nil		
TEST FREQUENCY RANGE			
Start Frequency	902MHz	**Stop Frequency**	928MHz
MAXIMUM OPERATING FREQUENCY			
902MHz to 928MHz			
TEST PARAMETERS			
Antenna Height	1m to 4m	**Turntable Rotation**	0° to 360°
Applicable standard	FCC Part 15.247: 2010 and 15.209: 2010	**Test Method**	KDB 412172
Equipment Class	NA	**Measurement Distance**	3m

TEST EQUIPMENT					
Y/N	**Equipment**	**Make**	**Model**	**Sl. No.**	**Cal Due Date**
Y	EMI Test Receiver	R&S	ESU26	100525	7-Aug-20
Y	3m Semi Anechoic Chamber	ETS Lindgren	DKE 6X7 DBL.DR	1625	30-Jul-22
Y	Bilog Antenna	ETS Lindgren	HLP3003C	130525	5-Nov-21
Y	RF cable (9KHz to 18GHz)	Huber + Schuner	Sucoflex100	515518/126E	04-Oct-21
Note: Switch ON /OFF the Internal Preamplifier based on carrier level and or noise floor without overloading the receiver					



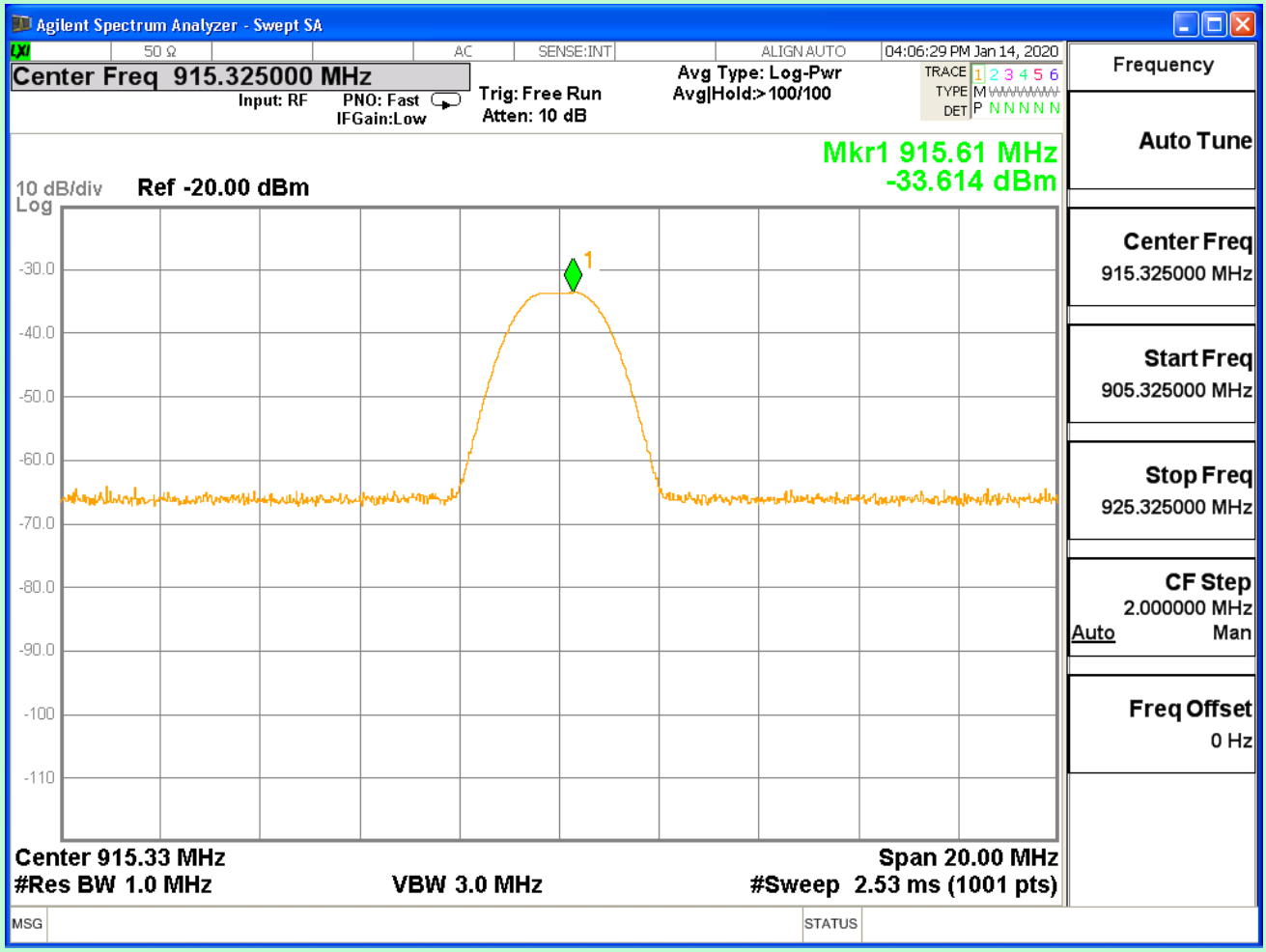
Antenna-2, Channel 1 (902.875 MHz)

Note : Peak Graph - Horizontal polarization



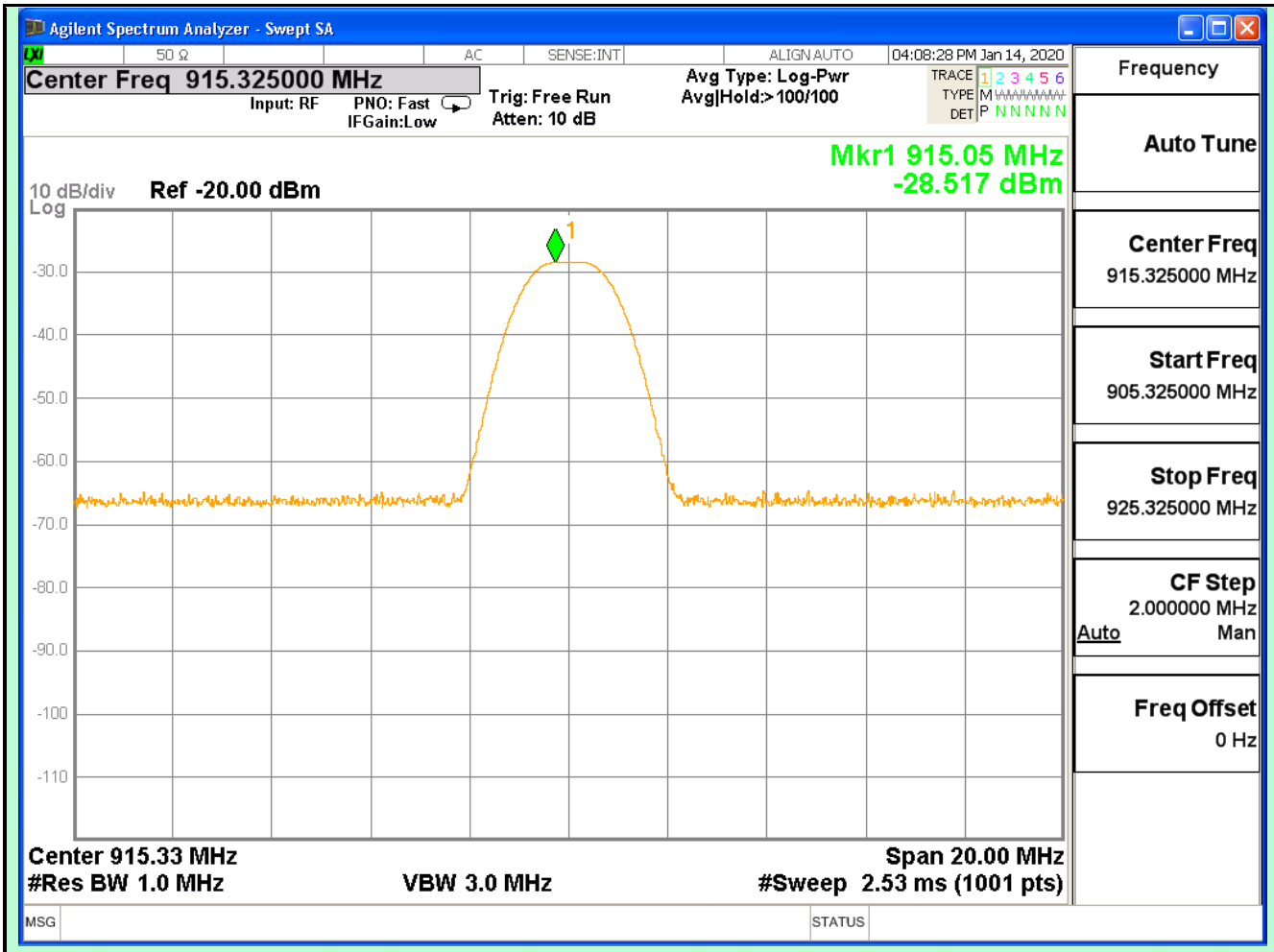
Antenna-2, Channel 1 (902.875 MHz)

Note : Peak Graph - Vertical polarization



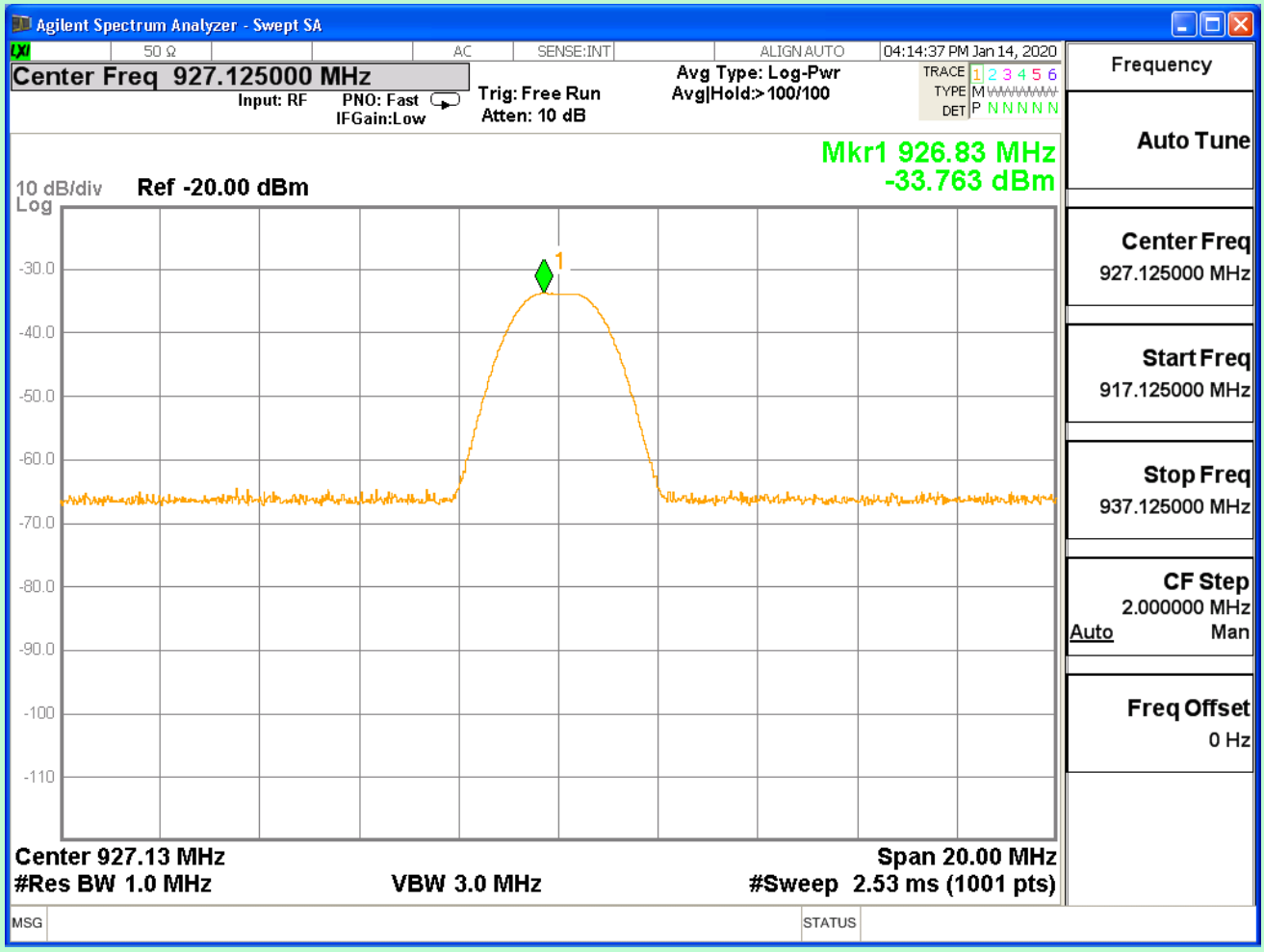
Antenna-2, Channel 4 (915.325 MHz)

Note : Peak Graph - Horizontal polarization



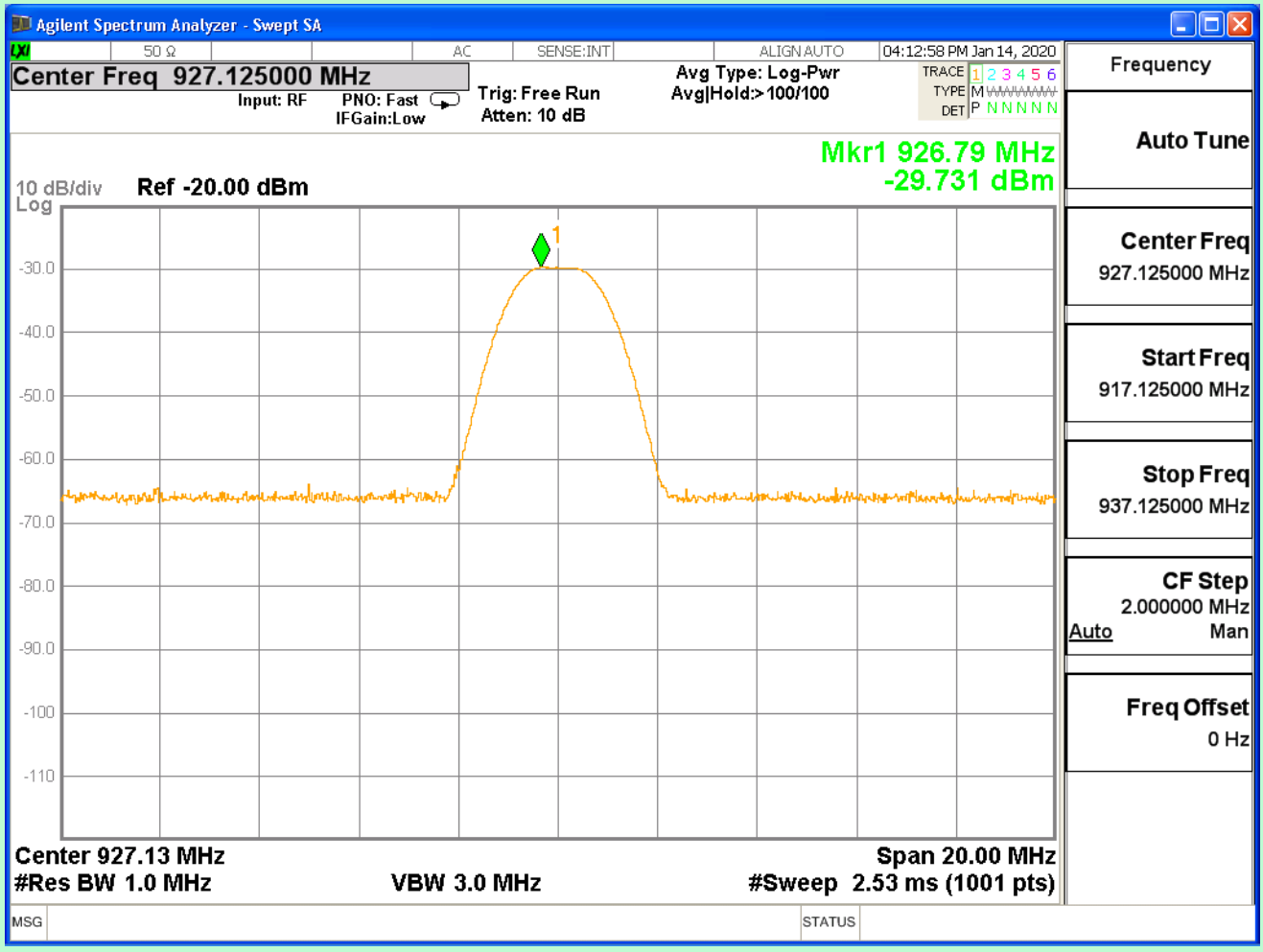
Antenna-2, Channel 4 (915.325 MHz)

Note : Peak Graph - Vertical polarization



Antenna-2, Channel 6 (927.125 MHz)

Note : Peak Graph - Horizontal polarization



Antenna-2, Channel 6 (927.125 MHz)

Note : Peak Graph - Vertical polarization

TEST RESULT – EIRP										
Channel	**Channel Freq**	**Rx Antenna Height**	**Rx Ant Pol**	**Measured Level**	**Cable Loss**	**External Att**	**Path loss @ 3m**	**Rx Antenna Gain**	**Calculated Rx Power**	**Calculated EIRP**
#	**MHz**	**cm**	**H/V**	**dBm**	**dB**	**dB**	**dB**	**dBi**	dBm	dBm
Antenna – 2 (DTS Mode)										
CH-1	902.875	325	H	-33.33	2.91	6	41.21	6.3	-30.72	10.49
CH-1	902.875	115	V	-27.82	2.91	6	41.21	6.3	-25.21	16
CH-4	915.325	120	H	-33.61	2.91	6	41.21	6.3	-31	10.21
CH-4	915.325	115	V	-28.51	2.91	6	41.21	6.3	-25.9	15.31
CH-6	927.125	100	H	-33.76	2.91	6	41.21	6.3	-31.15	10.06
CH-6	927.125	152	V	-29.73	2.91	6	41.21	6.3	-27.12	14.09

Note : Effective Isotropic Radiated Power (dBm)= Pr(dBm) +Lp(dB)

Pr = Pmeas(dBm)-Gr(dBi)+Lc(dB)+Latt(dB)

Lp =20Log F+20LogD-27.5

Where:

Pr =Calculated Received Power Level(dBm)

Lp= Free Space Path Loss(dB)

Pmeas= Measured Power Level(dBm)

Gr = Receiver Antenna Gain(dBi)

Lc = Cable Loss (dB)

Latt= External Attenuator(dB)

F = Frequency (MHz)

D= Distance (m)

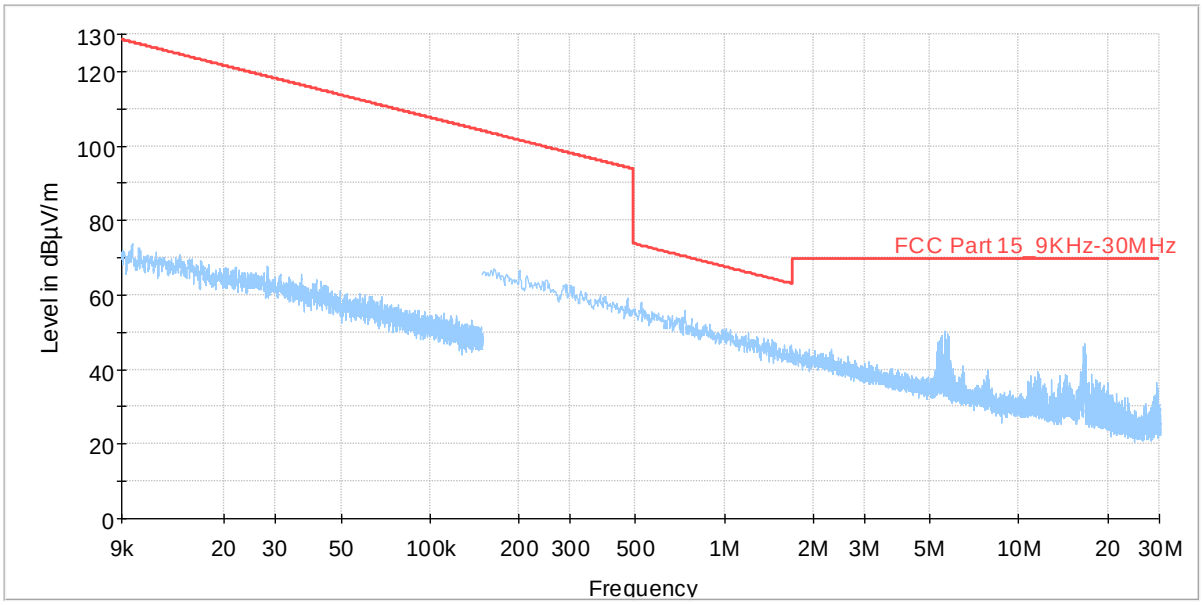
3.6 SPURIOUS RADIATED EMISSIONS

EUT Nomenclature	Wireless Sync Module	**Test Report No.**	EMC0422-1
Model No.	W-SYNC	**Serial No.**	110
Test Start Date	14 - Dec-2019	**Temperature (˚C)**	23±2
Test End Date	26 -Feb -2020	**Humidity RH (%)**	56 ± 2
Tested By	Vinay Gujjar	**Pressure (mbar)**	
Input Voltage / Freq	24Vdc		
Operating Mode	Refer Page 5 Operating Modes Table		
Test configuration	Refer Page 5 Test Configuration Table		
Deviation from Std	NA		
Comment	Nil		
TEST FREQUENCY RANGE			
Start Frequency	9KHz	**Stop Frequency**	10GHz
MAXIMUM OPERATING FREQUENCY			
902MHz to 928MHz			
TEST PARAMETERS			
Antenna Height	1m to 4m	**Turntable Rotation**	0° to 360°
Applicable standard	FCC Part 15.247: 2010 and 15.209: 2010	**Test Method**	KDB 558074 ANSI C63.10 - 2013
Equipment Class	NA	**Measurement Distance**	3m

TEST EQUIPMENT

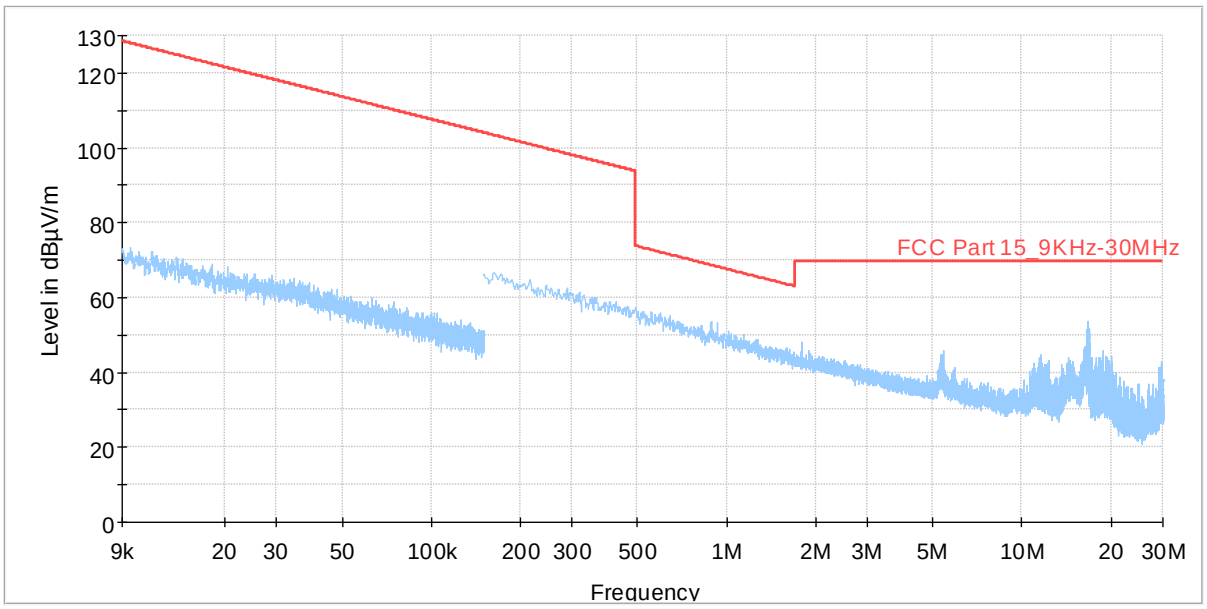
Y/N	Equipment	Make	Model	Sl. No.	Cal Due Date
Y	EMI Test Receiver	R&S	ESU26	100229	7-Aug-20
Y	3m Semi Anechoic Chamber	ETS Lindgren	DKE 6X7 DBL.DR	1625	30-Jul-22
Y	Double Ridge Guide Horn Antenna	ETS Lindgren	3117	64055	1-Nov-21
Y	Bilog Antenna	ETS Lindgren	HLP3003C	130525	5-Nov-21
Y	Loop Antenna	ETS Lindgren	6507	103694	15-Nov-21
Y	RF cable (9KHz to 18GHz)	Huber + Schuner	Sucoflex100	515518/126E	04-Oct-21
Y	Signal Conditioning unit	R&S	SCU-18	10178	5-Jun-20
Y	High Pass Filter	Wainwright	WHKX1.5/15G-12ST	1	24-Feb-21
Y	EMC32 Software	R&S	8.30.0	820-OT101248	NA

Note: Switch ON /OFF the Internal Preamplifier based on carrier level and or noise floor without overloading the receiver



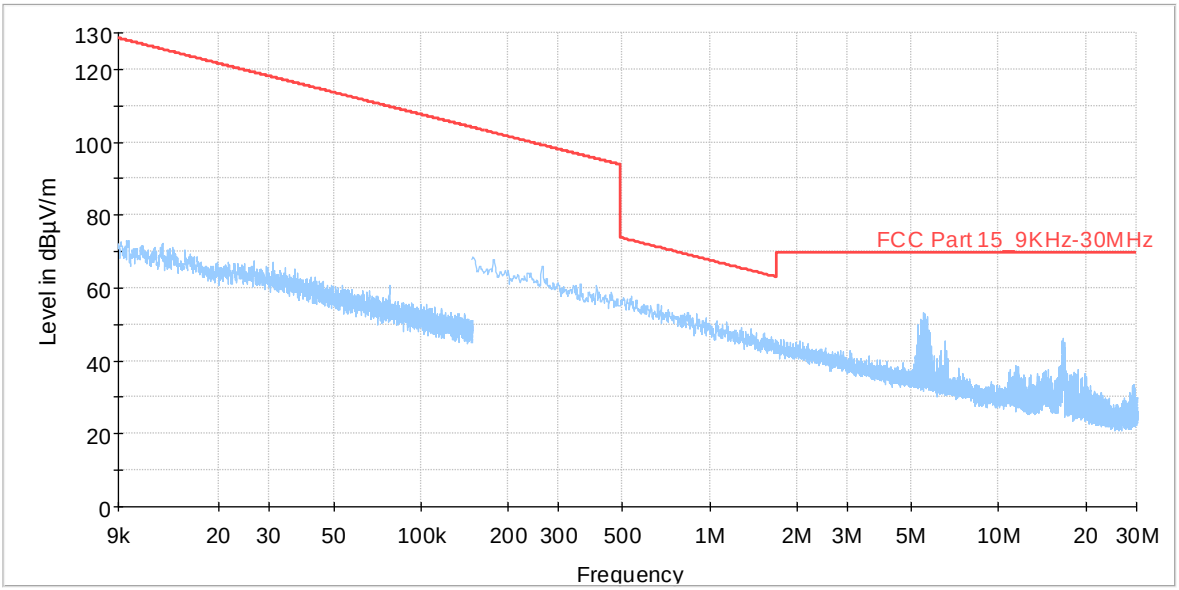
Antenna-2, Channel 1 (902.875 MHz)

Note : Peak Graph - Parallel



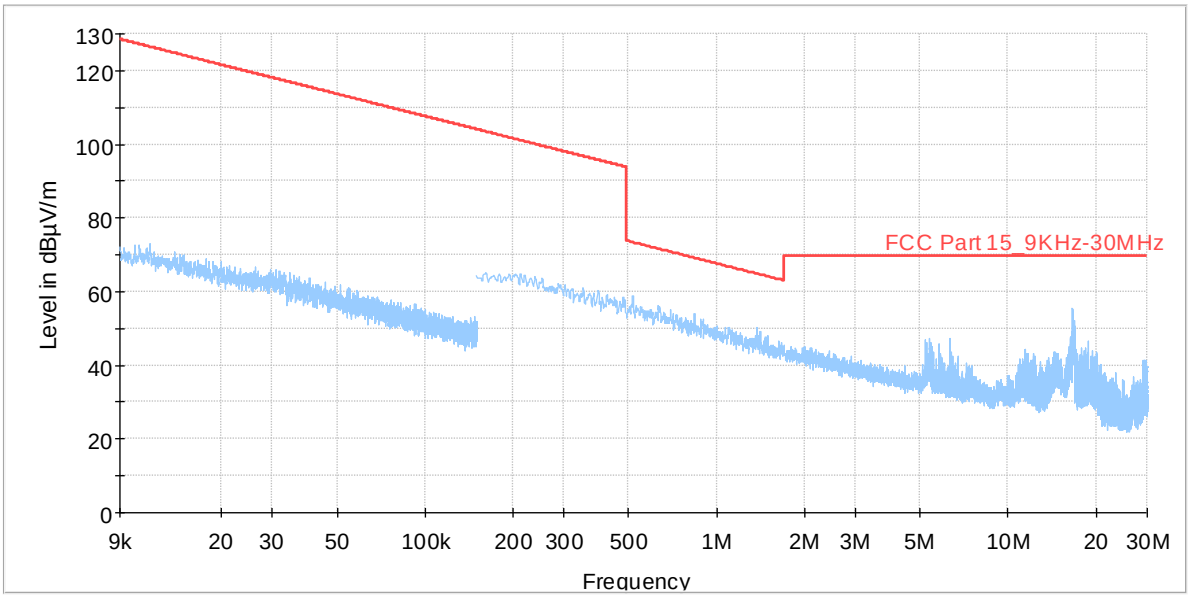
Antenna-2, Channel 1 (902.875 MHz)

Note : Peak Graph - Perpendicular



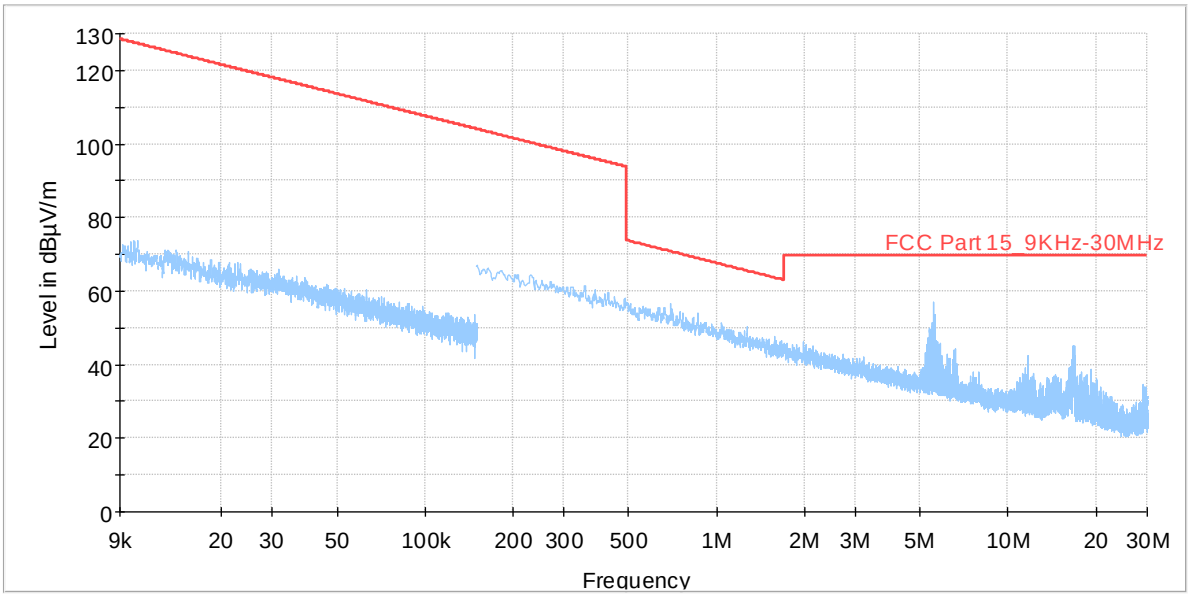
Antenna-2, Channel 4 (915.325 MHz)

Note : Peak Graph - Parallel



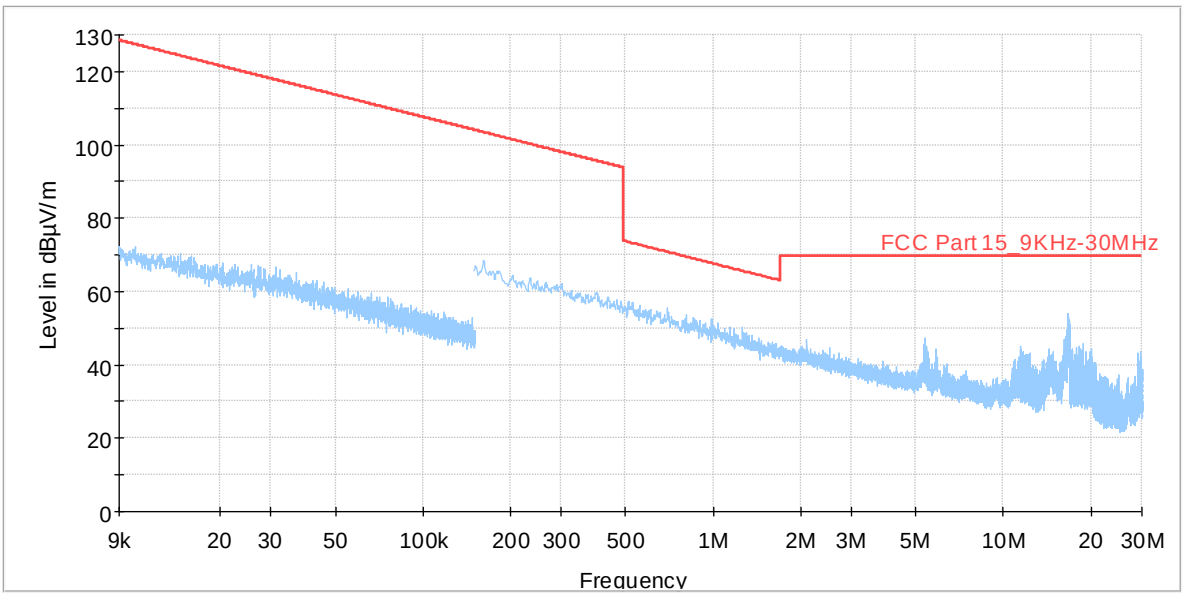
Antenna-2, Channel 4 (915.325 MHz)

Note : Peak Graph - Perpendicular



Antenna-2, Channel 6 (927.125MHz)

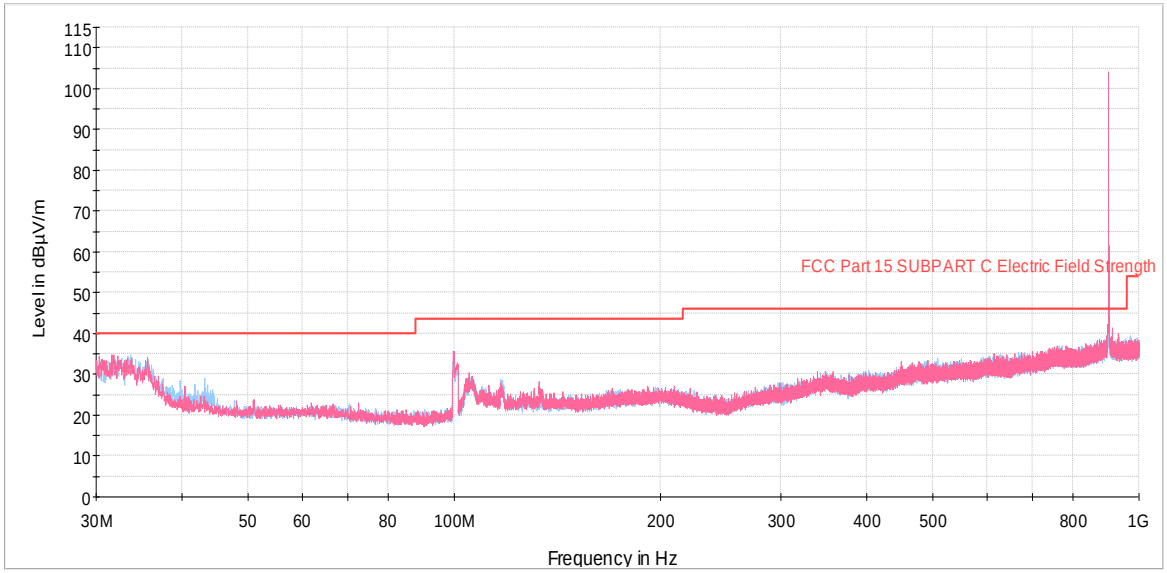
Note : Peak Graph - Parallel



Antenna-2, Channel 6 (927.125MHz)

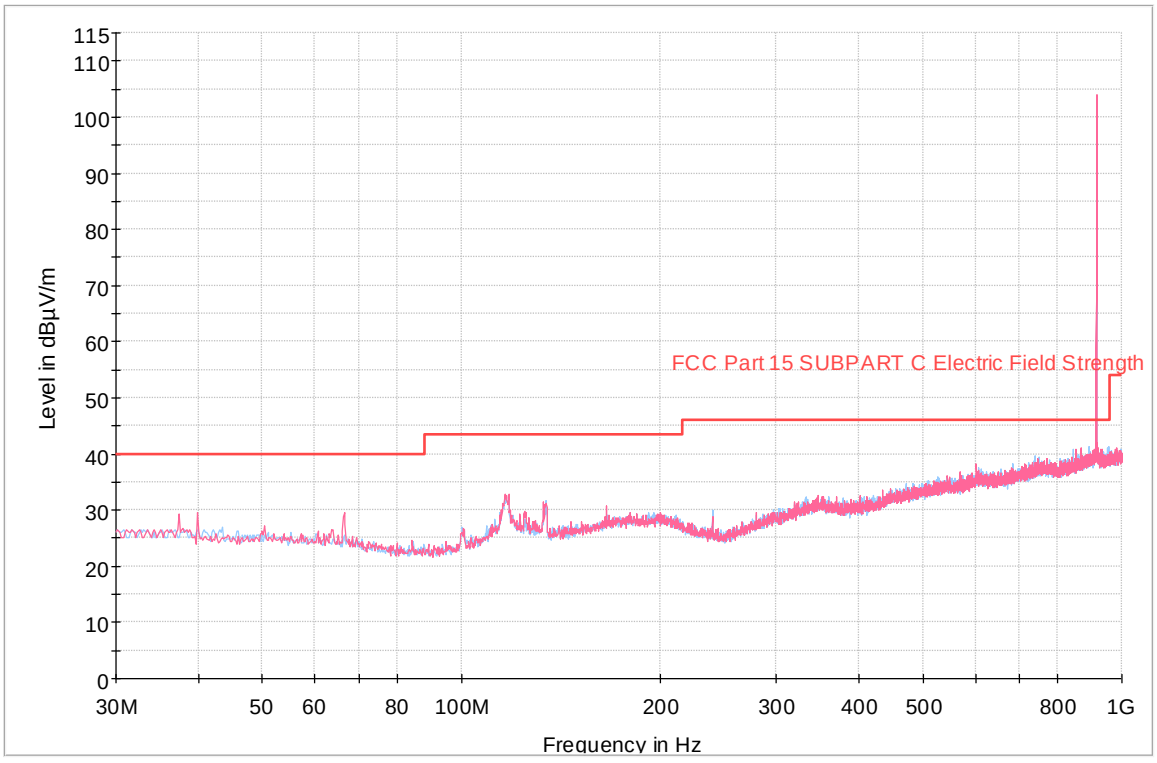
Note : Peak Graph - Perpendicular

TEST RESULT – 9 KHz to 30 MHz									
Channel	Channel Frequency	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	MHz	dBµV/m	cm	Parallel / Perpendicular	deg	dB	dBµV/m	
No emissions detected. Emissions shown in the plot are related to the chamber ambient									
Note : Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)									



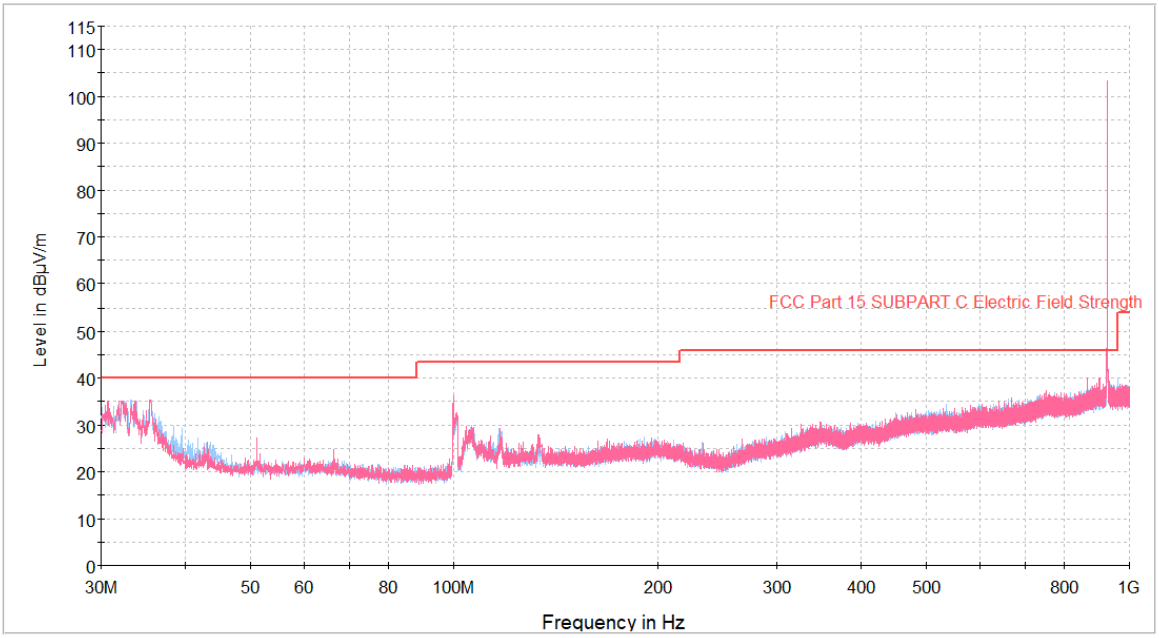
Antenna-2, Channel 1 (902.875 MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue),



Antenna-2, Channel 4 (915.325 MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue),

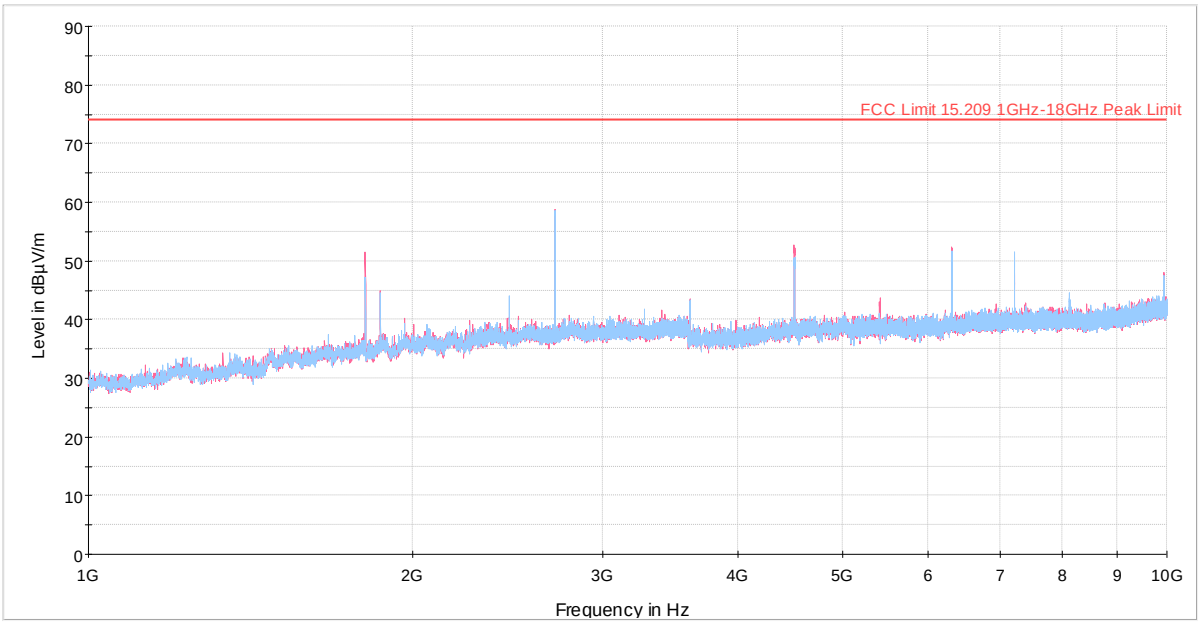


Antenna-2, Channel 6 (927.125MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue),

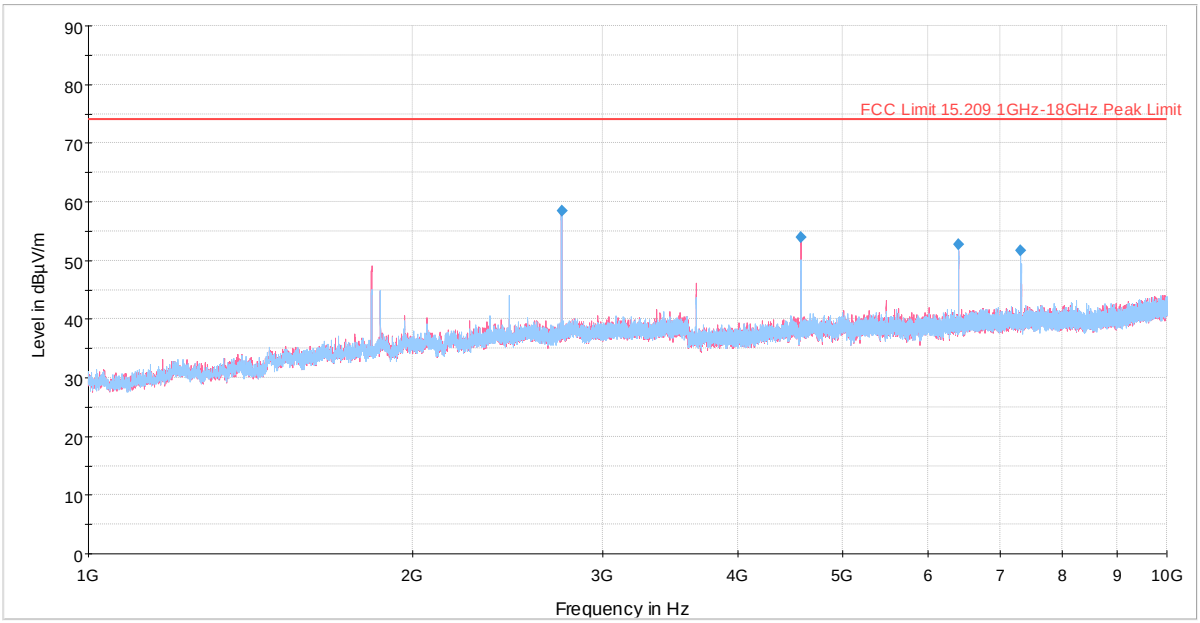
TEST RESULT – 30 MHz to 1 GHz								
Channel	Measured Spurious	Quasi Peak	Height	Ant Pol	Azimuth	Margin	Limit @ 3m Distance	Results
#	MHz	dBµV/m	Cm	H / V	deg	dB	dBµV/m	
Antenna – 2								
CH-1	746.44	28.63	300	V	296	17.37	46	Pass
CH-1	749.74	28.69	100	V	64	17.31	46	Pass
CH-1	751.49	28.73	300	H	160	17.27	46	Pass
CH-1	902.74	103.93	100	V	84	-	-	Intended Frequency
CH-4	602.49	27.18	400	V	19	18.82	46	Pass
CH-4	737.91	28.49	200	H	91	17.51	46	Pass
CH-4	915.22	103.01	100	V	318	-	-	Intended Frequency
CH-6	846.41667	37.42	200	H	156	8.58	46	Pass
CH-6	865.752	40.15	200	V	341	6.85	46	Pass
CH-6	926.99	103.38	1001	V	92	-	-	Intended Frequency
NOTE: Measured Field Strength –dBuV/m (9 KHz to 1 GHz) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB)								

TEST GRAPHS – 1 GHz to 10 GHz – Average



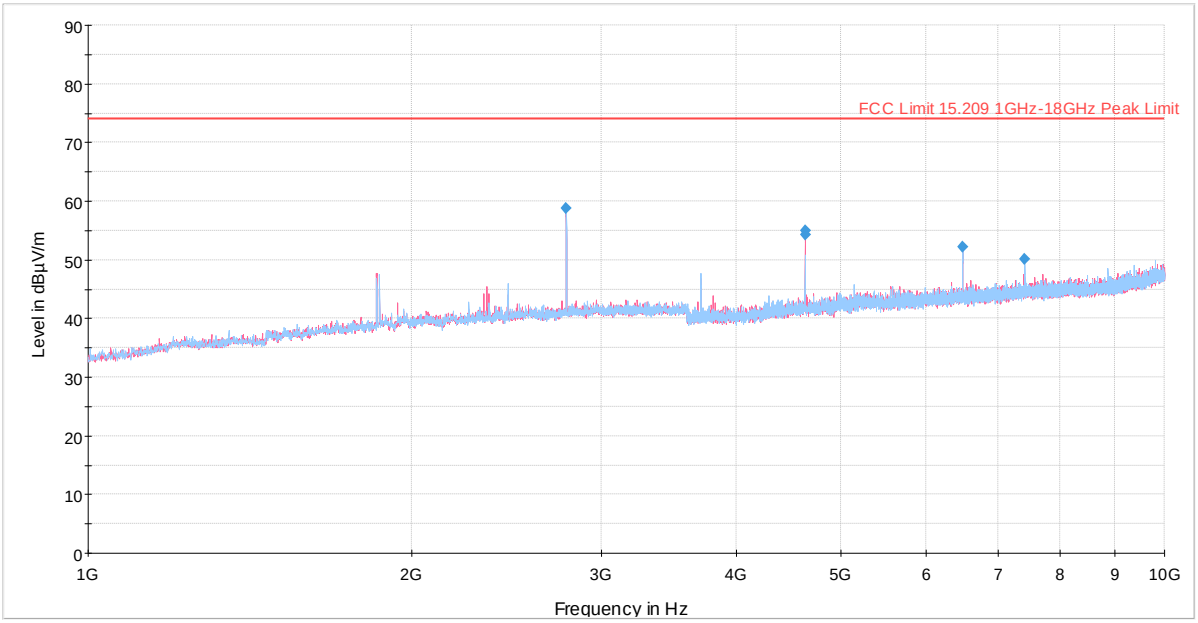
Antenna-2, Channel 1 (902.875 MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)



Antenna-2, Channel 4 (915.325 MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)



Antenna-2, Channel 6 (927.125MHz)

Note : Peak Graph - Vertical (Red), Peak Graph Horizontal (Blue)

TEST RESULT – 1 GHz to 10 GHz							RESTRICTED BAND – PEAK	
Channel	**Frequency**	**Measured MaxPeak**	**Height**	**Ant Pol**	**Azimuth**	**Margin**	**Limit**	**Result**
#	**(MHz)**	**(dBµV/m)**	**(cm)**	**H / V**	**(deg)**	**(dB)**	**(dBµV/m)**	
Antenna – 2								
CH-1	2707.30	55.47	100	V	16	18.53	74	PASS
CH-1	2709.10	58.88	300	V	23	15.12	74	PASS
CH-1	3612.70	46.61	400	V	39	27.39	74	PASS
CH-1	4513.60	52.2	300	V	29	21.8	74	PASS
CH-1	4516.30	49.94	300	V	33	24.06	74	PASS
CH-4	2746.90	58.37	300	V	315	15.63	74	PASS
CH-4	4577.50	53.78	300	V	0	20.22	74	PASS
CH-6	2782.00	58.78	100	H	313	15.22	74	PASS
CH-6	4634.20	54.91	300	V	41	19.09	74	PASS
CH-6	4636.90	54.34	300	V	41	19.66	74	PASS
CH-6	7418.80	50.18	200	H	78	23.82	74	PASS

Note :

Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)

TEST RESULT – 1 GHz to 10 GHz				RESTRICTED BAND – AVERAGE				
Channel	**Frequency**	**Measured Average**	**Height**	**Ant Pol**	**Azimuth**	**Margin**	**Limit**	**Result**
#	**(MHz)**	**(dBµV/m)**	**(cm)**	**H / V**	**(deg)**	**(dB)**	**(dBµV/m)**	
Antenna – 2								
CH-1	2708.20	52.45	100	V	16	1.55	54	PASS
CH-1	3611.80	34.41	400	V	49	19.59	54	PASS
CH-1	4513.60	41.54	400	V	42	12.46	54	PASS
CH-1	4515.40	42.52	400	V	35	11.48	54	PASS
CH-4	2746.00	50.29	100	H	345	3.71	54	PASS
CH-4	4577.50	43.9	300	V	0	10.1	54	PASS
CH-6	2781.10	51.37	100	H	321	2.63	54	PASS
CH-6	4634.20	44.72	300	V	41	9.28	54	PASS
CH-6	4636.90	44.4	200	V	20	9.6	54	PASS
CH-6	7415.20	38.15	200	H	84	15.85	54	PASS

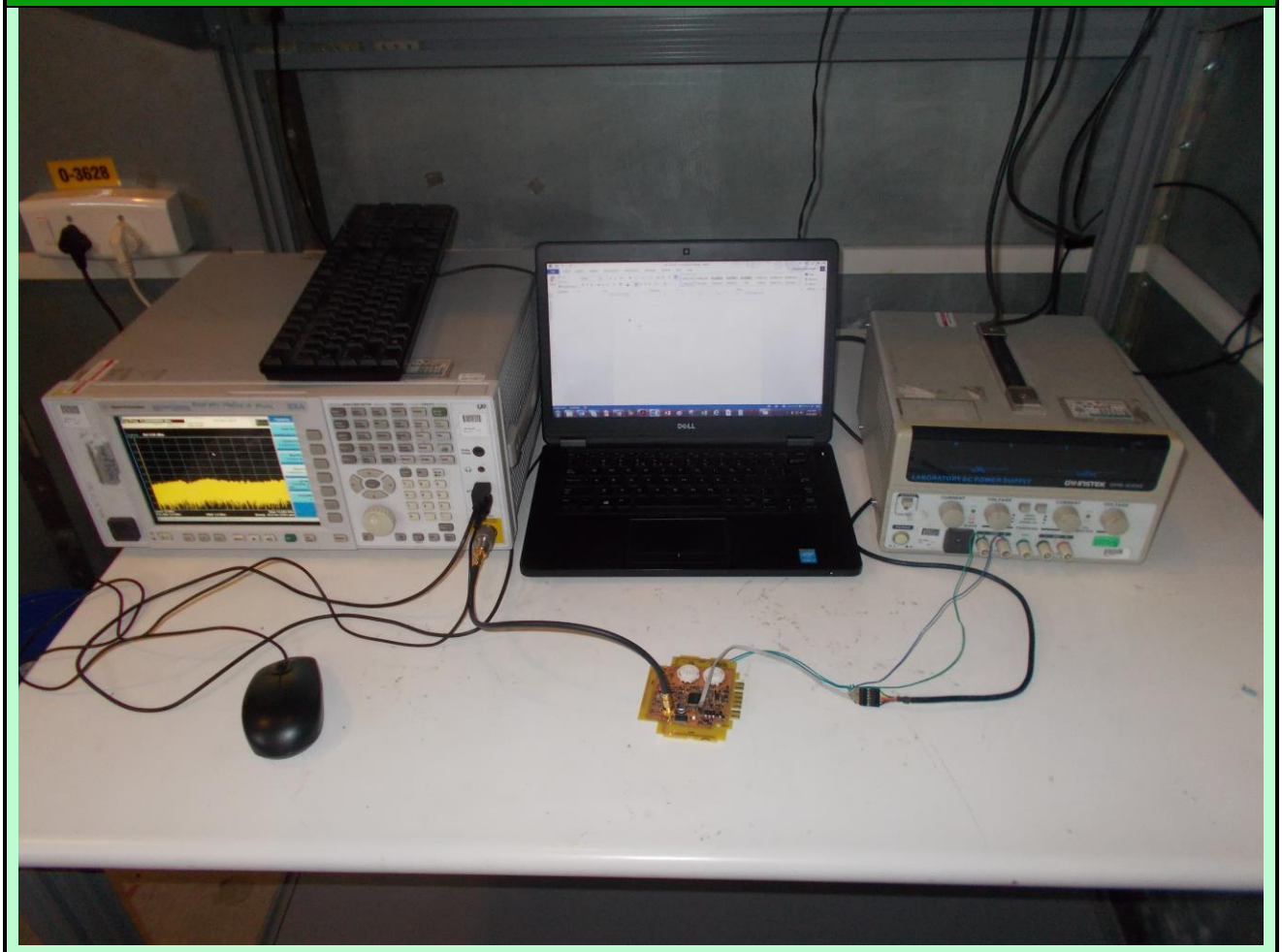
Note :

Measured Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)

TEST RESULT – 1 GHz to 10 GHz									NON- RESTRICTED BAND - PEAK
Channel	**Measured Fundamental**	**Frequency**	**Measured Peak field Strength**	**Height**	**Ant Pol**	**Azimuth**	**Peak Limit [Fundamental – 20 dB]**	**Margin**	**Results**
#	**dBµV/m**	**MHz**	**dBµV/m**	**cm**	**H / V**	**deg**	**dBuV/m**	**dB**	
Antenna – 2									
CH-1	103.93	1804.6	47.46	200	V	340	83.93	36.47	PASS
CH-1	103.93	6318.1	52.96	200	V	21	83.93	30.97	PASS
CH-1	103.93	7220.8	52.63	400	H	261	83.93	31.3	PASS
CH-4	103.01	1829.8	49.25	300	V	330	83.01	33.76	PASS
CH-4	103.01	6405.4	52.68	300	V	12	83.01	30.33	PASS
CH-6	103.38	6491.8	52.23	100	H	115	83.38	31.15	PASS
Note :									
Measured Harmonic Field Strength (dBuV/m) = Receiver Readings (dBuV) + Antenna Factor (dB/m) + Cable loss (dB) + Filter Insertion loss - Pre amplifier Gain (dB)									

Annexure – 1

CONDUCTED RF TEST SETUP



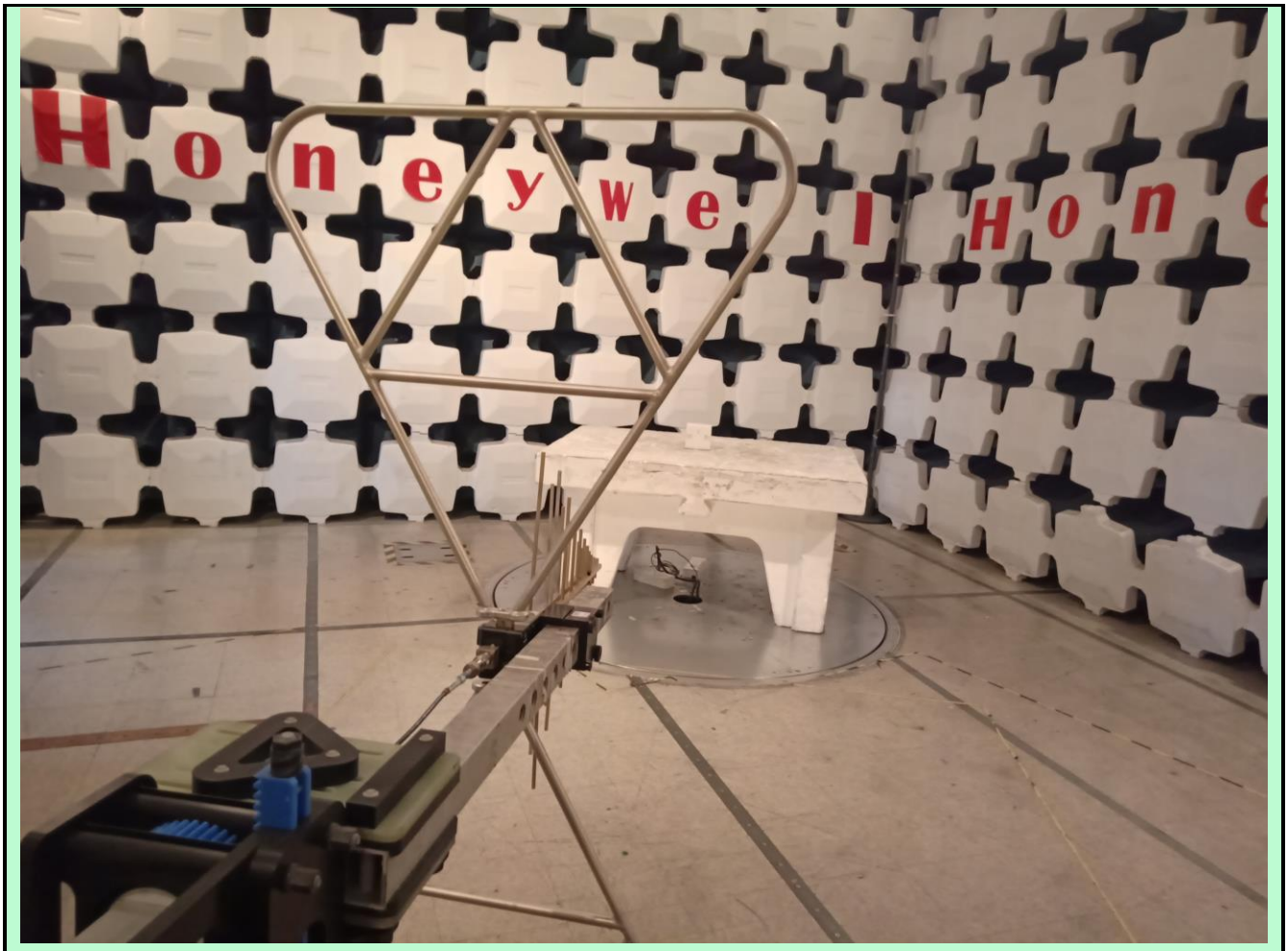
Conducted RF test setup

RADIATED EMISSION SETUP

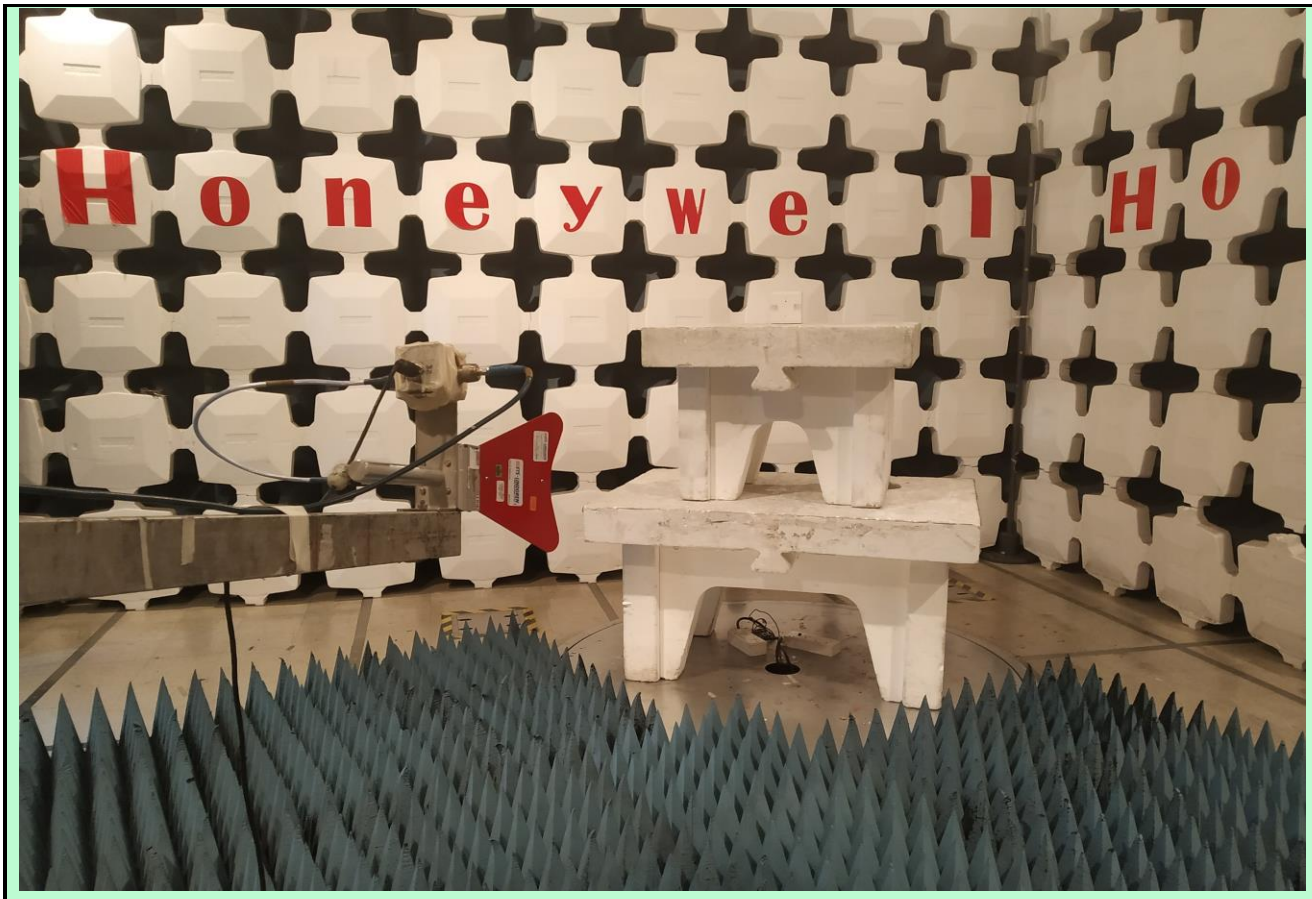
Radiated Emission Setup – 9 KHz to 30 MHz [Parallel]

Radiated Emission Setup – 9 KHz to 30 MHz [Perpendicular]

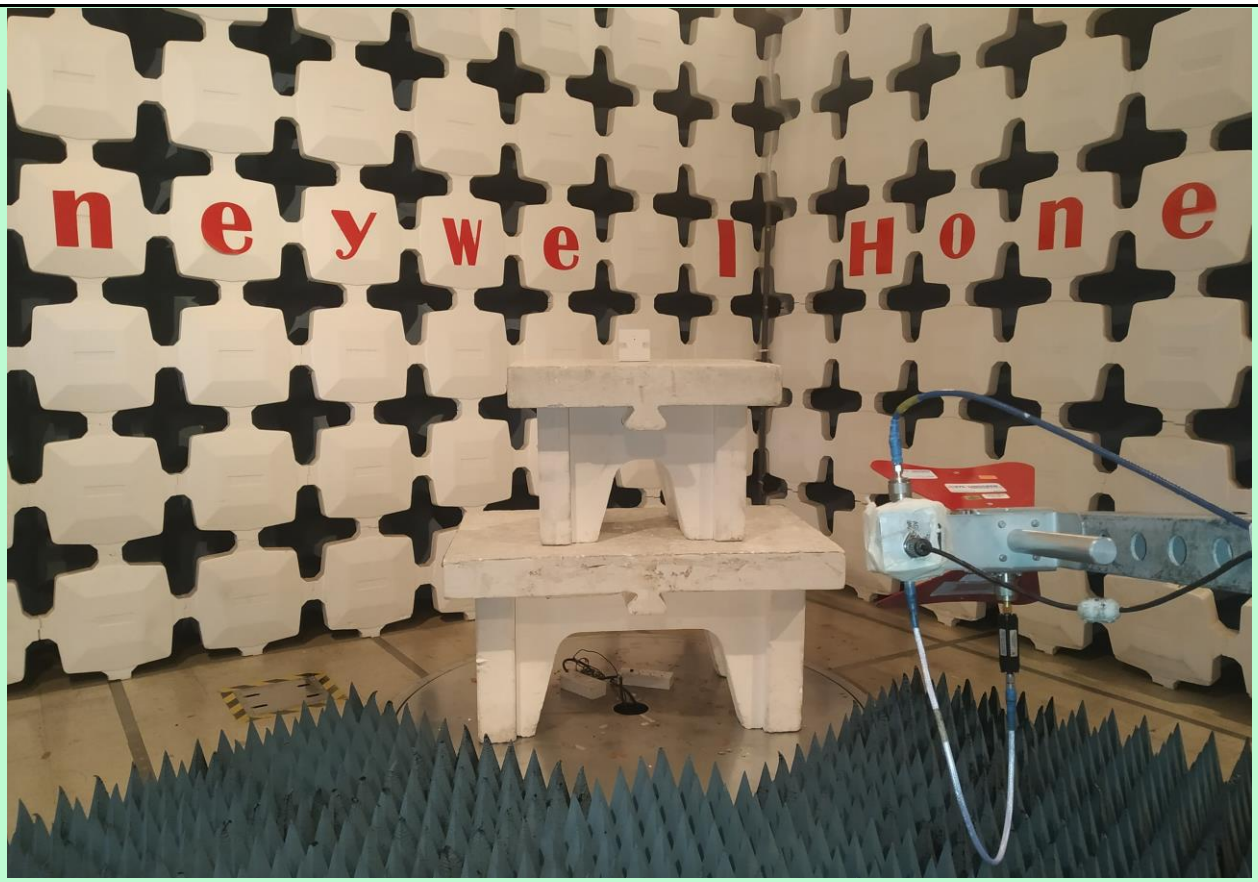
Radiated Emission Setup –30 MHz to 1 GHz [Horizontal polarization Polarization]



Radiated Emission Setup –30 MHz to 1 GHz [Vertical Polarization]



Radiated Emission Setup –1 GHz to 10 GHz [Horizontal Polarization]



Radiated Emission Setup –1 GHz to 10 GHz [Vertical Polarization]