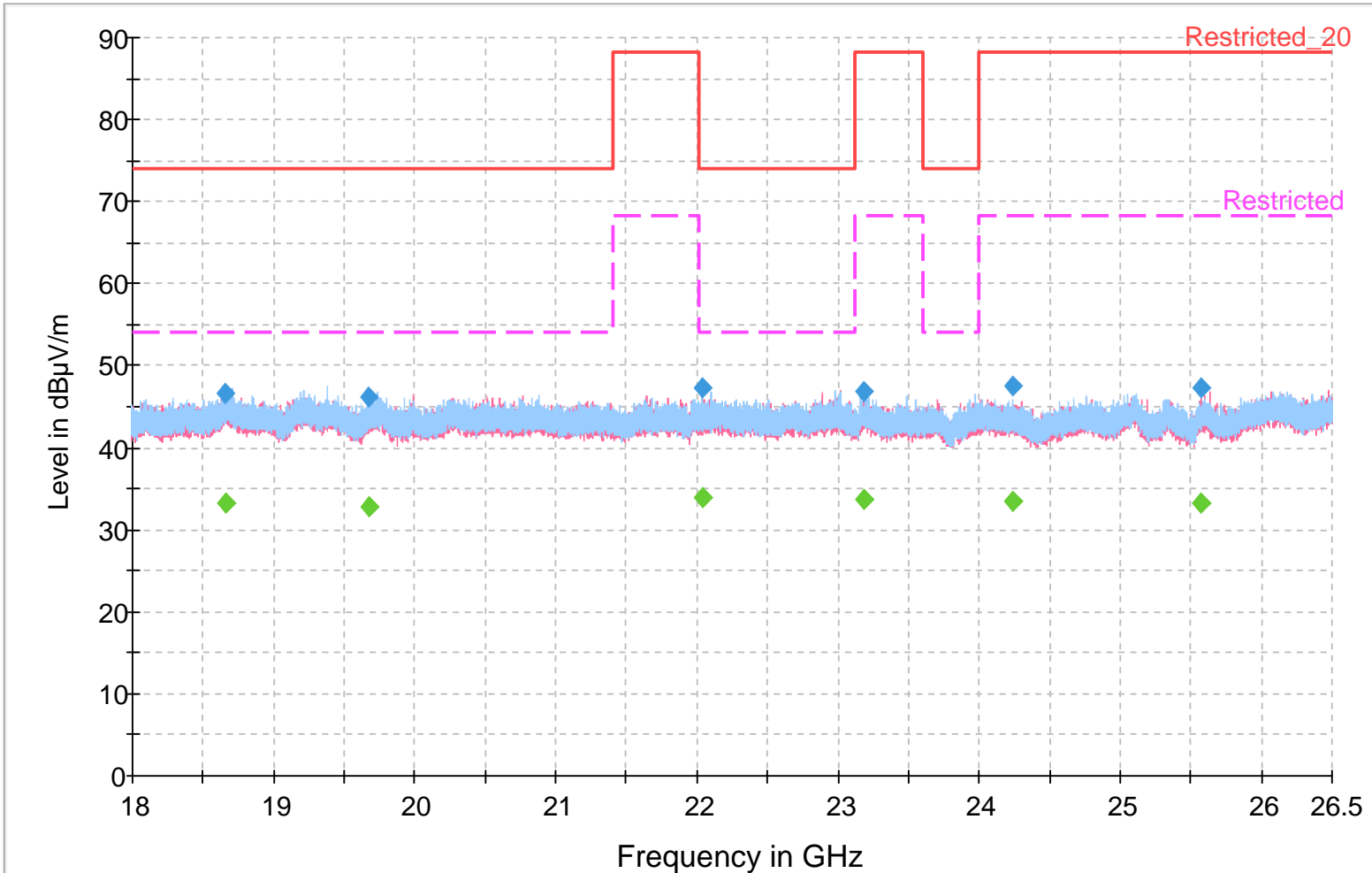


FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted_20
— Preview Result 1H-PK+
— Restricted
◆ Final Result 1-PK+
— Preview Result 1V-PK+
◆ Final Result 2-AVG

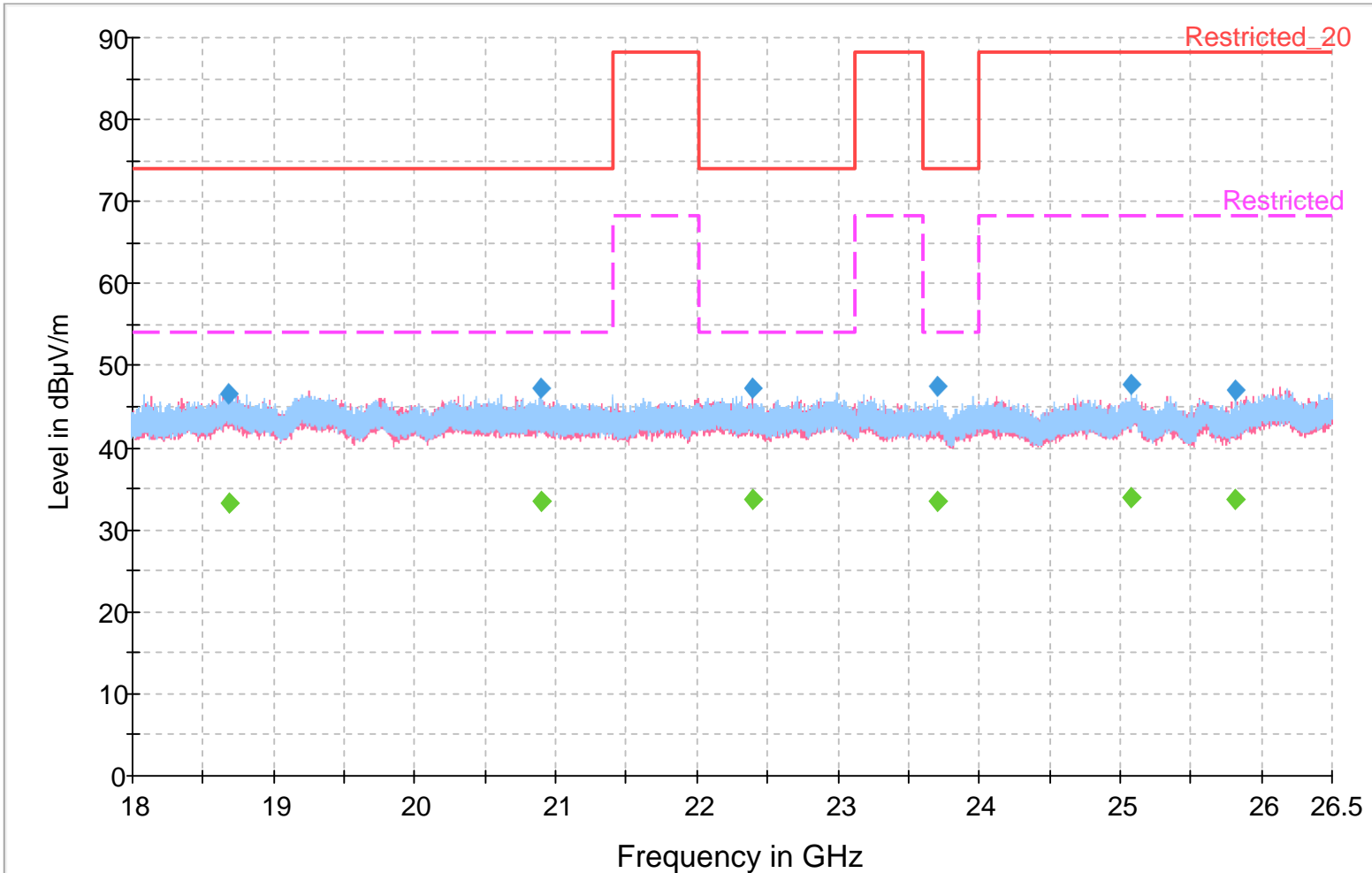
Final Result 1

Frequency (MHz)	MaxPeak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
18666.400000	46.6	180.0	H	146.0	9.7	27.40	74.00	
19682.575000	46.1	201.0	H	57.0	9.8	27.90	74.00	
22034.100000	47.2	256.0	H	217.0	10.7	26.80	74.00	
23190.100000	46.9	125.0	V	118.0	10.7	41.30	88.20	
24243.250000	47.4	169.0	H	15.0	10.5	40.80	88.20	
25576.050000	47.2	300.0	V	0.0	10.7	41.00	88.20	

Final Result 2

Frequency (MHz)	Average (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
18666.400000	33.3	180.0	H	146.0	9.7	20.70	54.00	
19682.575000	32.8	201.0	H	57.0	9.8	21.20	54.00	
22034.100000	34.0	256.0	H	217.0	10.7	20.00	54.00	
23190.100000	33.7	125.0	V	118.0	10.7	34.50	68.20	
24243.250000	33.5	169.0	H	15.0	10.5	34.70	68.20	
25576.050000	33.4	300.0	V	0.0	10.7	34.80	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted_20
— Preview Result 1H-PK+
- - - Restricted
◆ Final Result 1-PK+
— Preview Result 1V-PK+
◆ Final Result 2-AVG

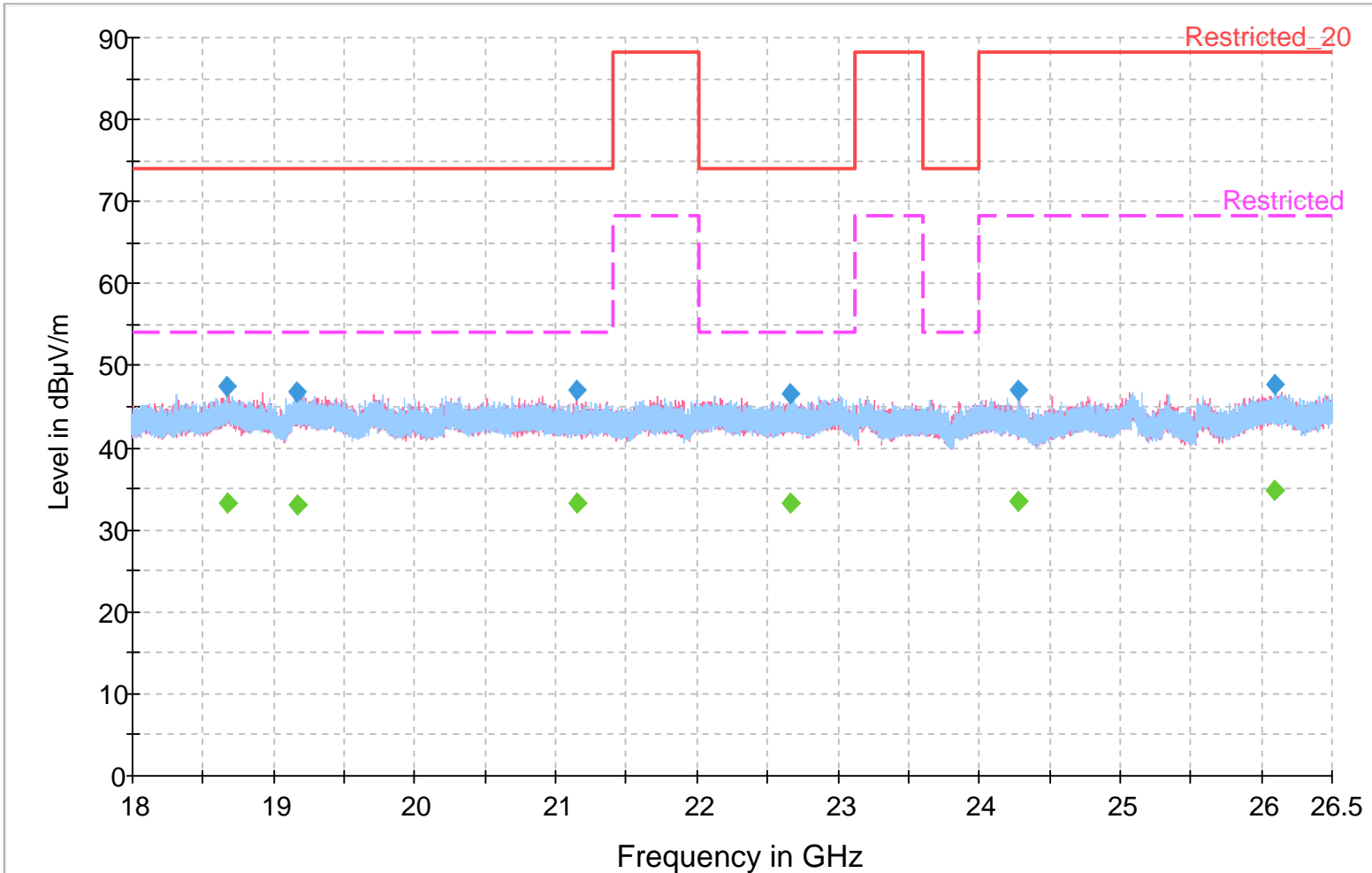
Final Result 1

Frequency (MHz)	MaxPeak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
18681.275000	46.6	110.0	V	48.0	9.7	27.40	74.00	
20901.050000	47.2	193.0	H	263.0	10.1	26.80	74.00	
22394.500000	47.2	110.0	V	95.0	10.6	26.80	74.00	
23705.200000	47.4	204.0	H	255.0	10.5	26.60	74.00	
25073.700000	47.6	100.0	H	304.0	10.5	40.60	88.20	
25808.950000	47.0	161.0	H	138.0	10.5	41.20	88.20	

Final Result 2

Frequency (MHz)	Average (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
18681.275000	33.3	110.0	V	48.0	9.7	20.70	54.00	
20901.050000	33.6	193.0	H	263.0	10.1	20.40	54.00	
22394.500000	33.7	110.0	V	95.0	10.6	20.30	54.00	
23705.200000	33.5	204.0	H	255.0	10.5	20.50	54.00	
25073.700000	33.9	100.0	H	304.0	10.5	34.30	68.20	
25808.950000	33.8	161.0	H	138.0	10.5	34.40	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted_20
— Preview Result 1H-PK+
- - - Restricted
◆ Final Result 1-PK+
— Preview Result 1V-PK+
◆ Final Result 2-AVG

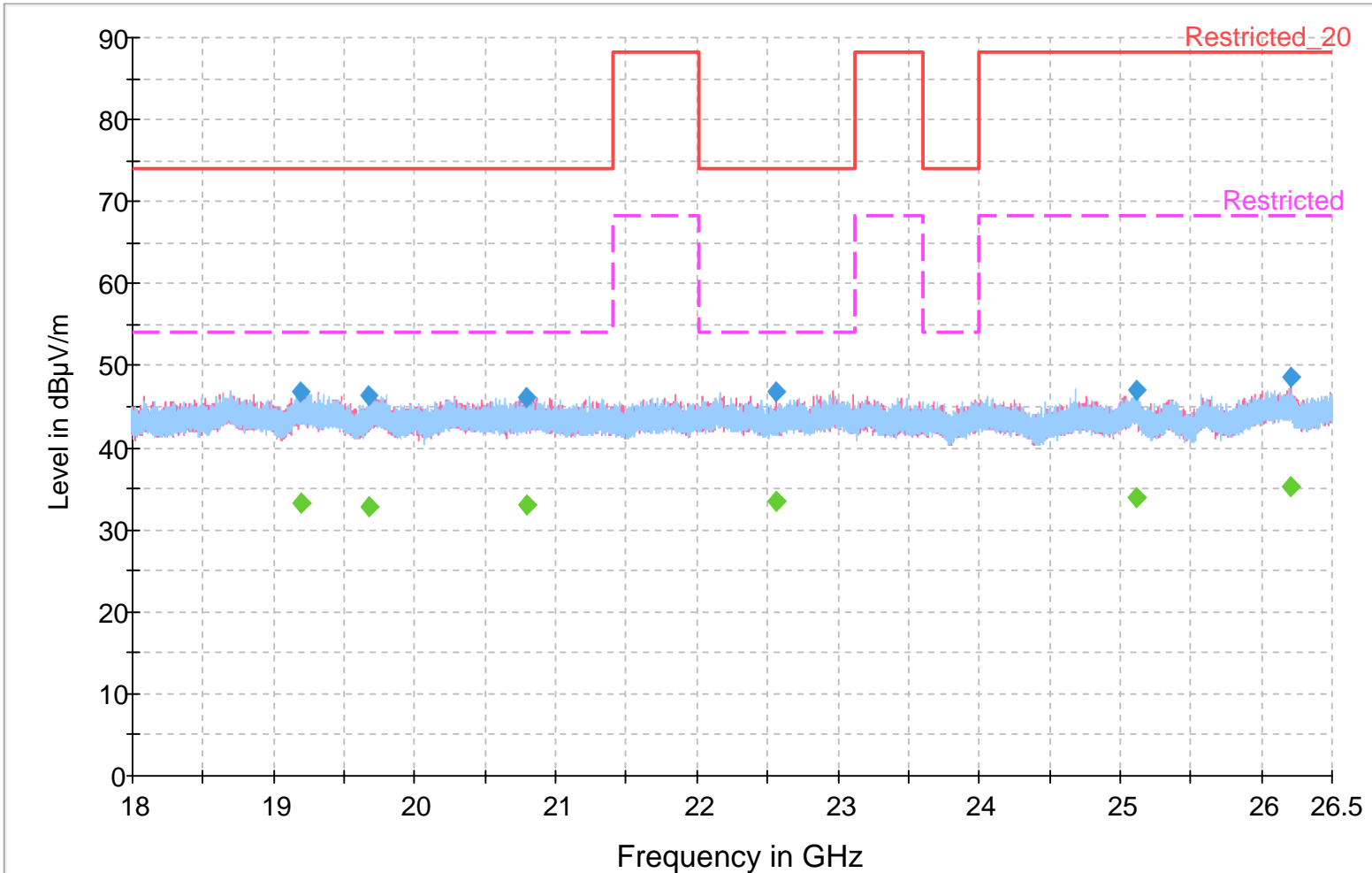
Final Result 1

Frequency (MHz)	MaxPeak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
18671.925000	47.3	130.0	H	52.0	9.7	26.70	74.00	
19173.850000	46.7	160.0	V	295.0	10.0	27.30	74.00	
21145.850000	47.0	170.0	V	6.0	10.0	27.00	74.00	
22662.675000	46.6	125.0	H	174.0	10.6	27.40	74.00	
24273.000000	46.9	153.0	H	167.0	10.5	41.30	88.20	
26088.600000	47.7	290.0	V	336.0	11.5	40.50	88.20	

Final Result 2

Frequency (MHz)	Average (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
18671.925000	33.2	130.0	H	52.0	9.7	20.80	54.00	
19173.850000	33.1	160.0	V	295.0	10.0	20.90	54.00	
21145.850000	33.3	170.0	V	6.0	10.0	20.70	54.00	
22662.675000	33.2	125.0	H	174.0	10.6	20.80	54.00	
24273.000000	33.5	153.0	H	167.0	10.5	34.70	68.20	
26088.600000	34.8	290.0	V	336.0	11.5	33.40	68.20	

FCC Class B Radiated Sweep 18GHz-26.5GHz 3m PK AVG



— Restricted_20
— Preview Result 1H-PK+
- - - Restricted
◆ Final Result 1-PK+
— Preview Result 1V-PK+
◆ Final Result 2-AVG

Final Result 1

Frequency (MHz)	MaxPeak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
19200.200000	46.9	176.0	V	238.0	10.1	27.10	74.00	
19683.000000	46.4	291.0	H	0.0	9.8	27.60	74.00	
20799.050000	46.1	166.0	H	173.0	10.0	27.90	74.00	
22567.050000	46.7	130.0	V	140.0	10.5	27.30	74.00	
25116.200000	47.1	273.0	V	169.0	10.5	41.10	88.20	
26206.325000	48.4	286.0	V	328.0	11.9	39.80	88.20	

Final Result 2

Frequency (MHz)	Average (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
19200.200000	33.2	176.0	V	238.0	10.1	20.80	54.00	
19683.000000	32.9	291.0	H	0.0	9.8	21.10	54.00	
20799.050000	33.0	166.0	H	173.0	10.0	21.00	54.00	
22567.050000	33.6	130.0	V	140.0	10.5	20.40	54.00	
25116.200000	33.9	273.0	V	169.0	10.5	34.30	68.20	
26206.325000	35.3	286.0	V	328.0	11.9	32.90	68.20	



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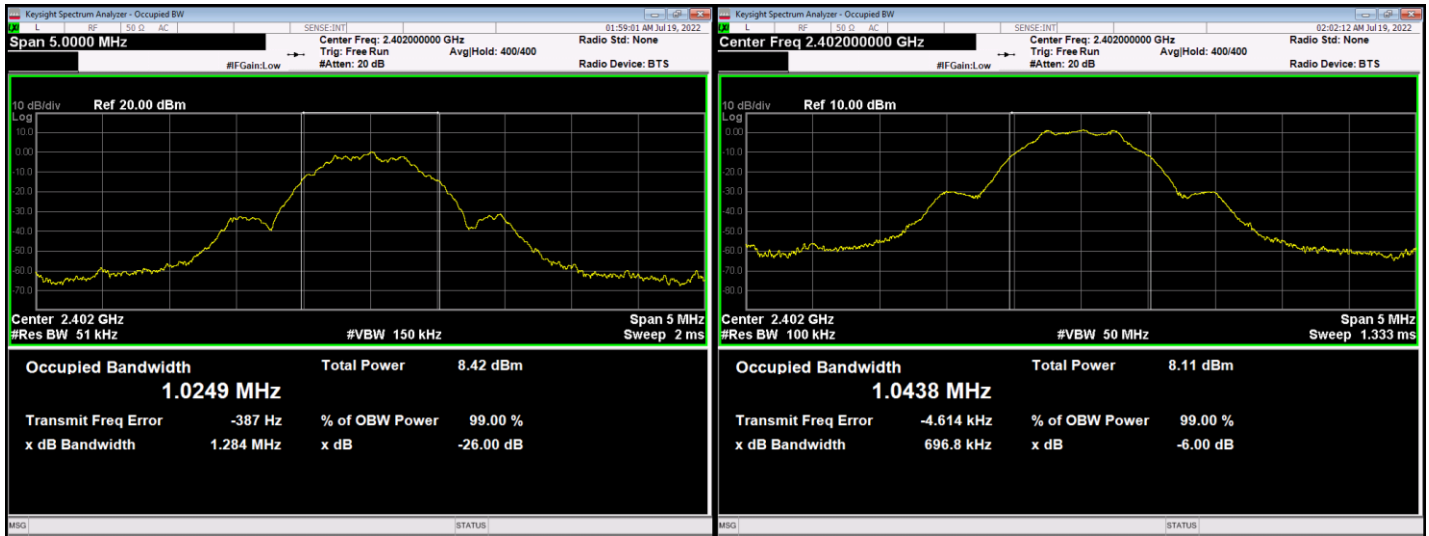
6dB Bandwidth and Occupied Bandwidth Test

Company:	Aptiv Services US LLC.	Test Date:	7/21/2022			
EUT Name:	EP2000	Test Engineer:	Andreas Davidsson			
Model:	EP2000	Test Result:	PASS			
Operating Mode:	TX Mode					
Mode	Test CH	Frequency (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth (MHz)	6 dB Bandwidth Limit (KHz)	Conclusion
Bluetooth LE	0	2402	1.0249	0.6968	≥ 500	PASS
	19	2440	1.0281	0.6897	≥ 500	PASS
	39	2480	1.0279	0.6873	≥ 500	PASS
802.11b	0	2412	13.449	9.780	≥ 500	PASS
	7	2442	13.441	9.813	≥ 500	PASS
	11	2472	13.434	9.790	≥ 500	PASS
802.11g	0	2412	17.07	16.43	≥ 500	PASS
	7	2442	17.016	16.45	≥ 500	PASS
	11	2472	17.062	16.47	≥ 500	PASS
802.11n (20)	0	2412	17.941	17.62	≥ 500	PASS
	7	2442	17.983	17.65	≥ 500	PASS
	11	2472	18.012	17.63	≥ 500	PASS
Mode	Test CH	Frequency (MHz)	99% Bandwidth (MHz)	20 dB Bandwidth (MHz)	20 dB Bandwidth Limit (KHz)	Conclusion
Bluetooth	0	2402	1.1836	1.370	≥ 500	PASS
	39	2441	1.1818	1.370	≥ 500	PASS
	78	2480	1.1801	1.365	≥ 500	PASS
Test Equipment: Please refer to section 5.2						



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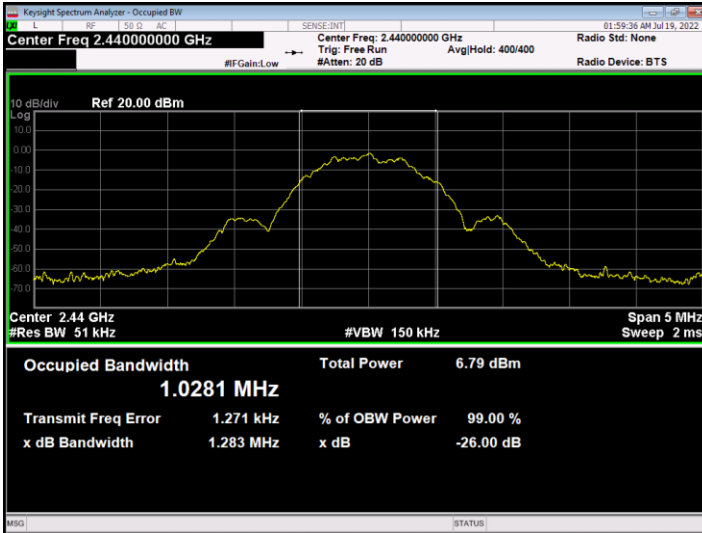
BLE Ch0 99% OBW

BLECh0 6db BW

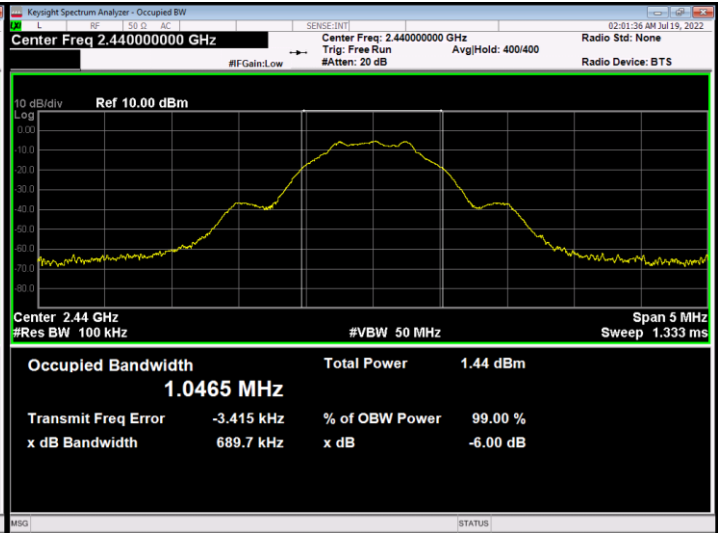


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BLE Ch19 99% OBW

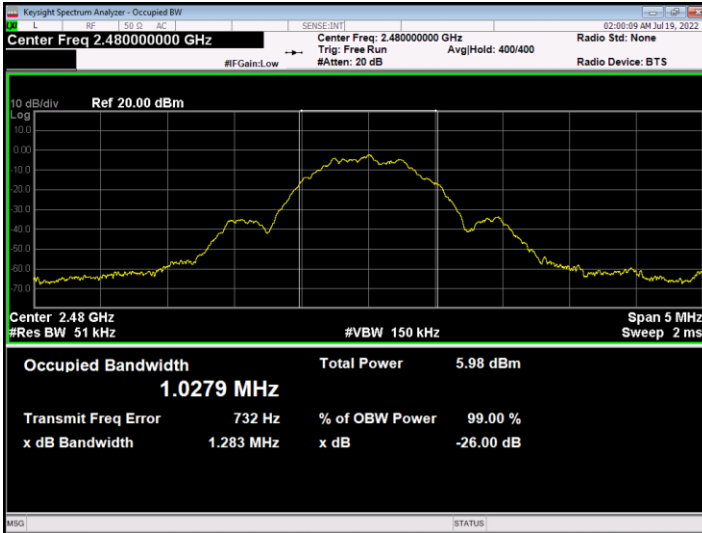


BLE Ch19 6Db BW

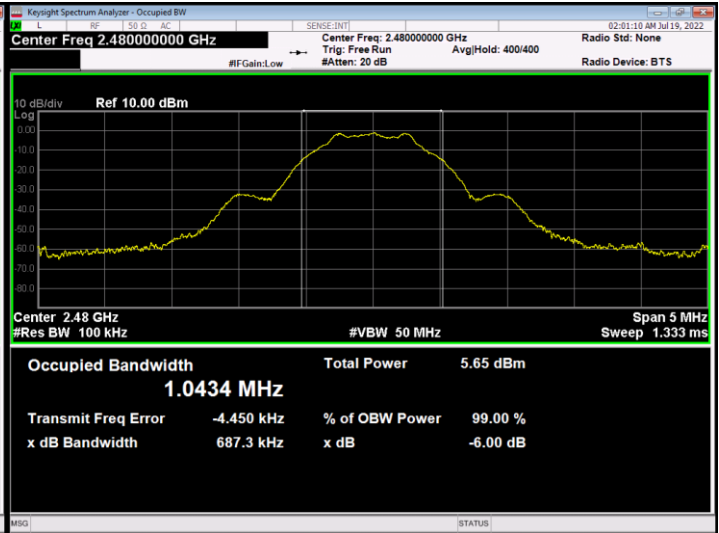


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BLE Ch39 99% OBW

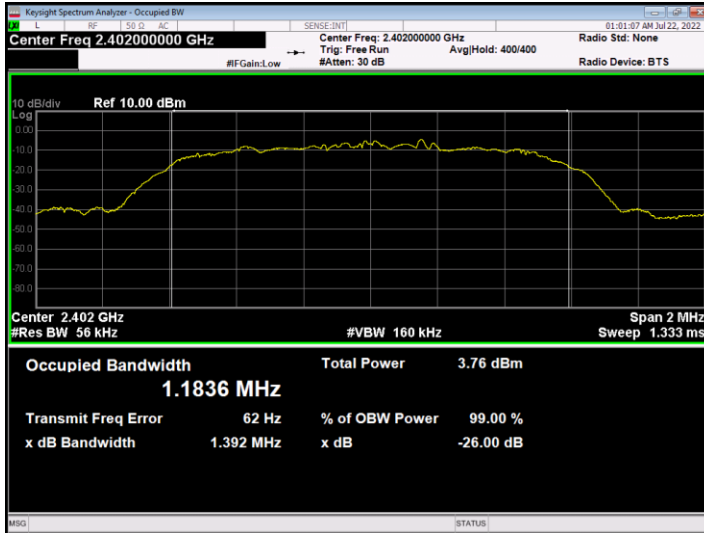


BLE Ch39 6Db BW

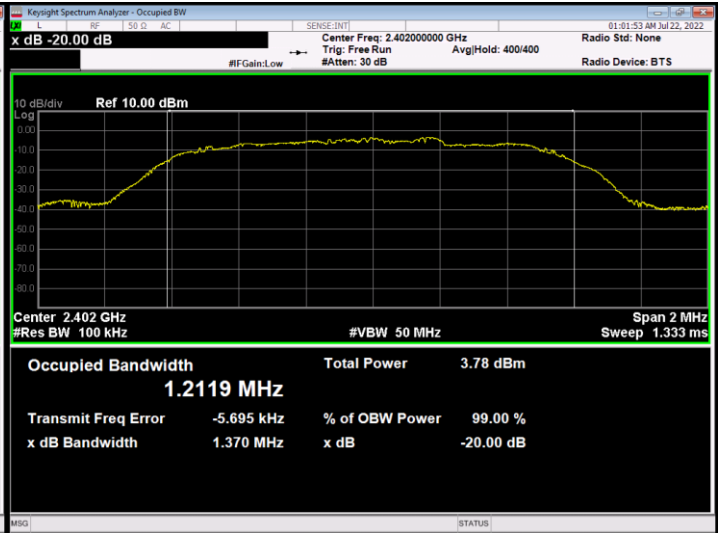


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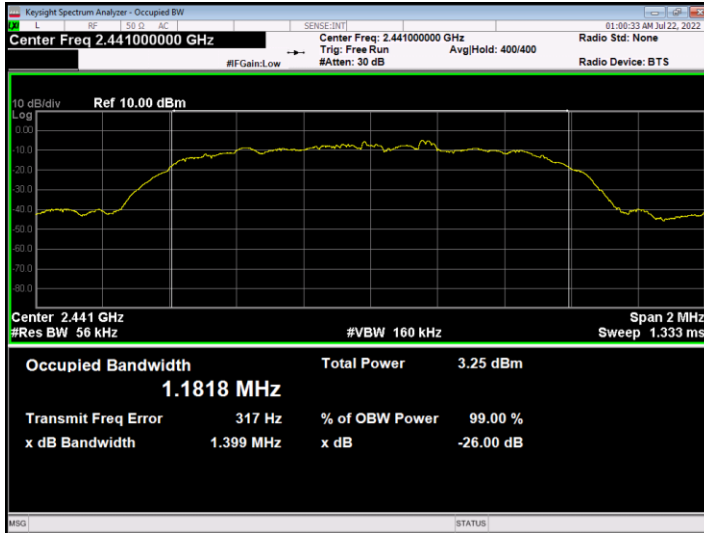
Bluetooth Ch0 99% OBW



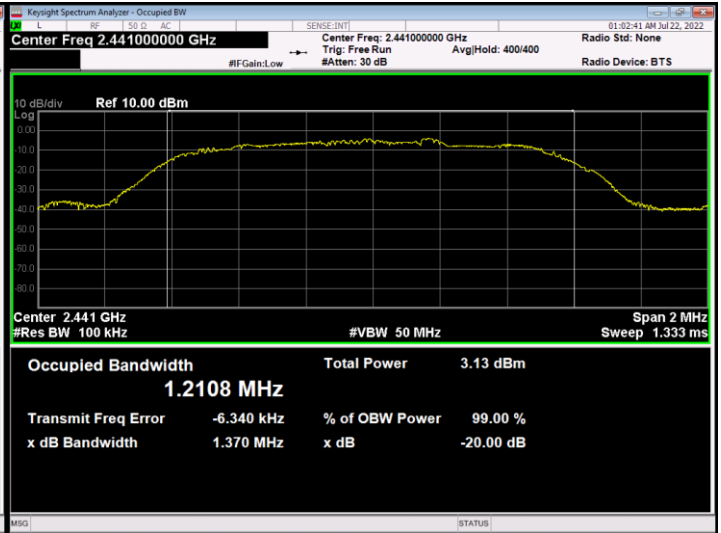
Bluetooth Ch0 20Db BW



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Bluetooth Ch39 99% OBW

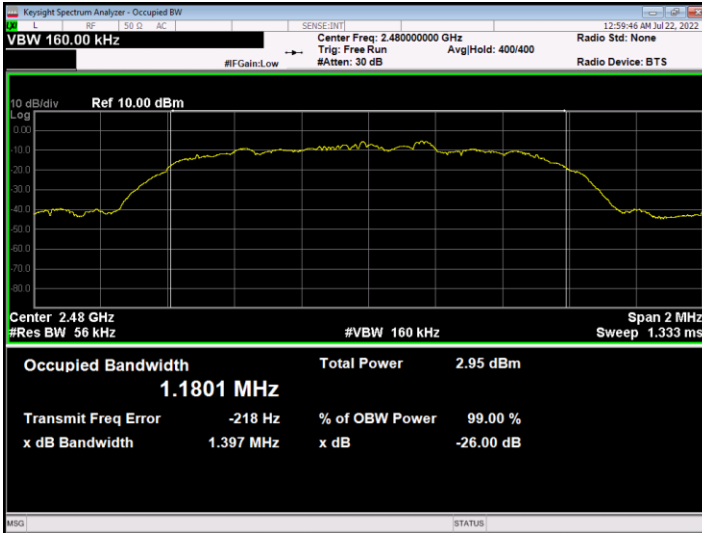


Bluetooth Ch39 20Db BW

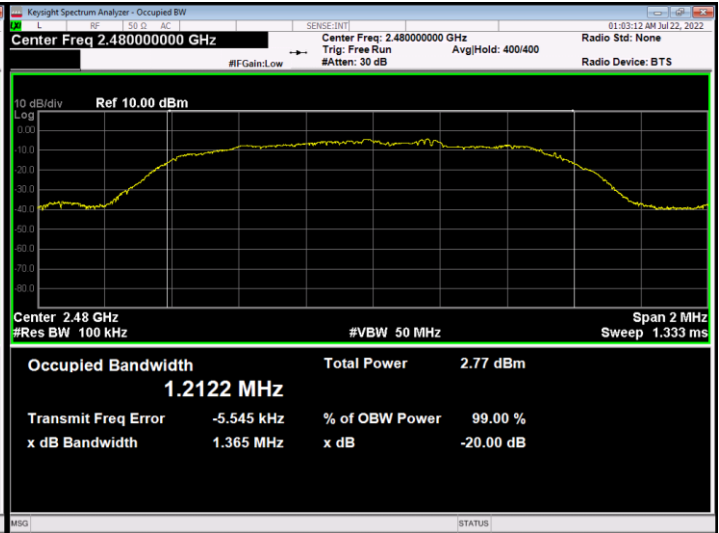


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Bluetooth Ch78 99% OBW

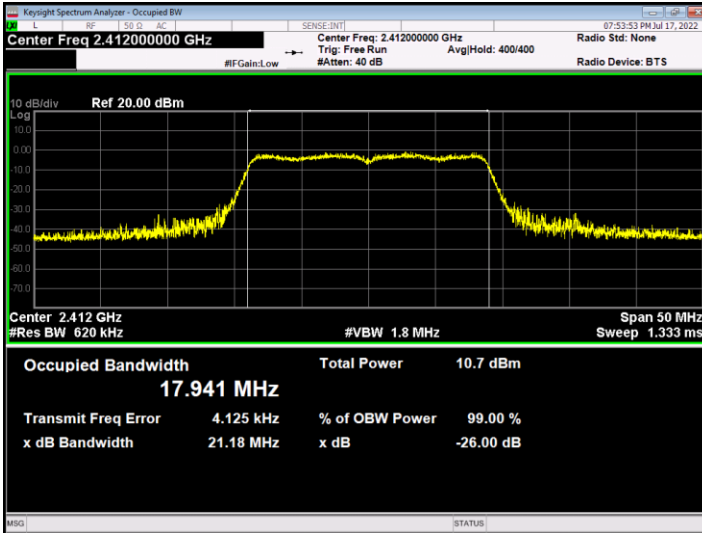


Bluetooth Ch78 20Db BW

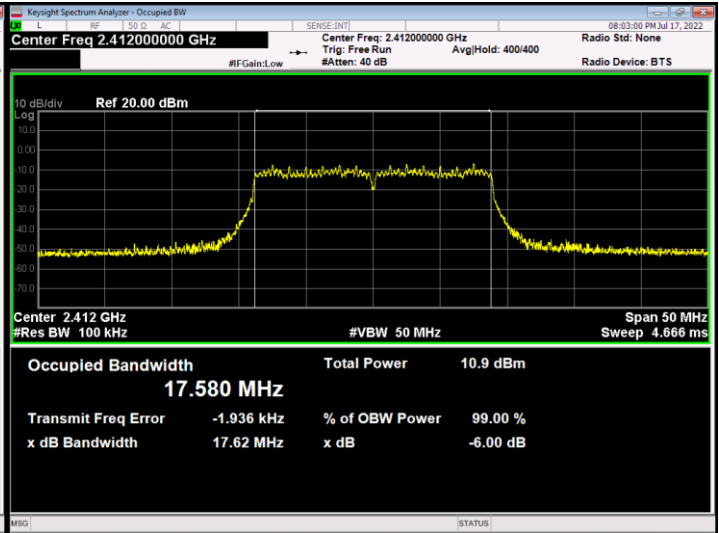


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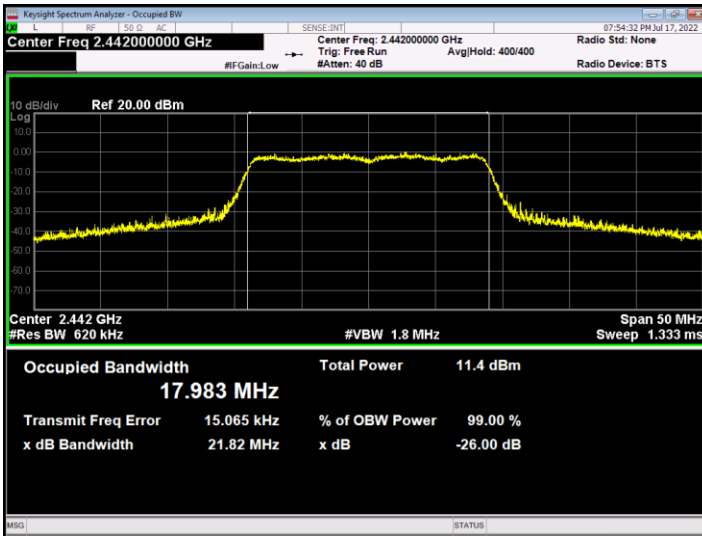
802.11n(20) Ch0 99% OBW



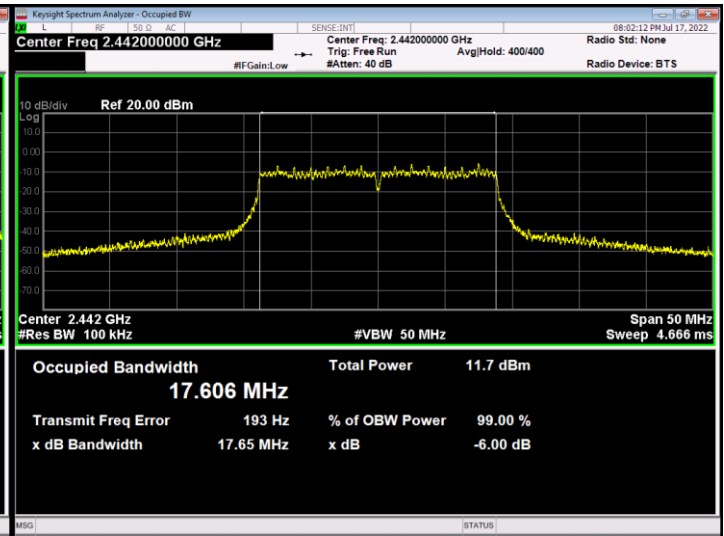
802.11g Ch0 6Db BW



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802.11n(20) Ch7 99% OBW

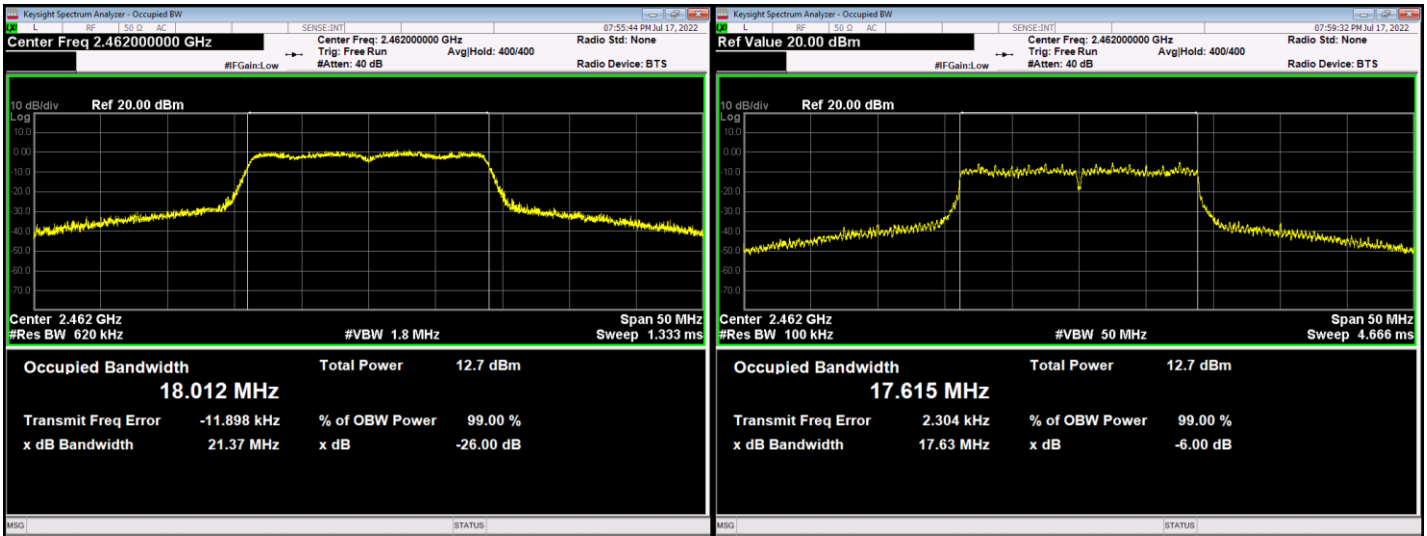


802.11g Ch1 6Db BW



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802.11n(20) Ch11 99% OBW

802.11n(20) Ch11 6Db BW



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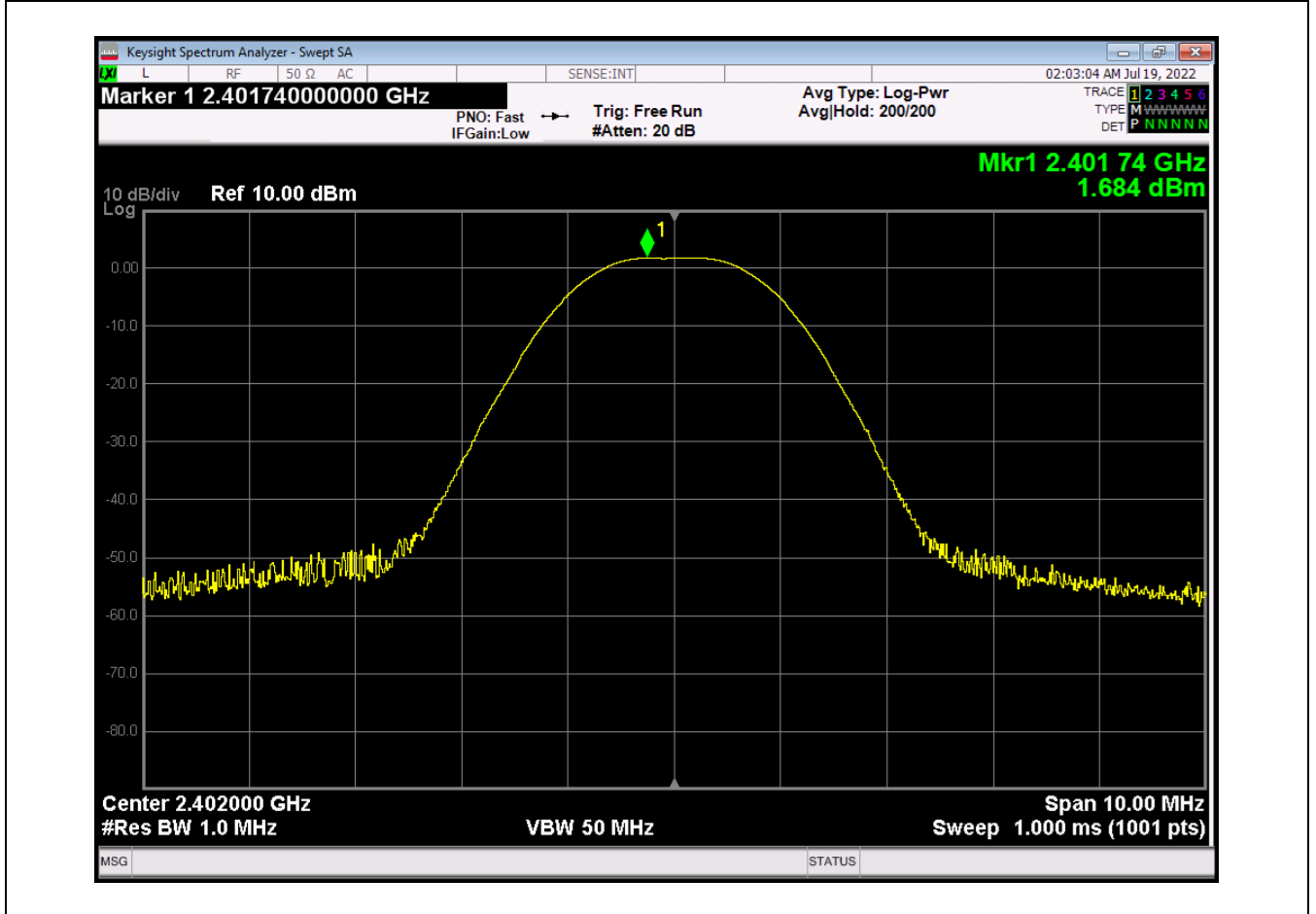
Peak Output Power Test Data

Company:		Aptiv Services US LLC.		Test Date		7/21/2022	
EUT Name		EP2000		Test Engineer		Andreas Davidsson	
Model:		EP2000		Test Result		PASS	
Operating Mode		TX Mode					
Mode	Test CH	Frequency (MHz)	Raw Peak Output Power Path B (dBm)		Corrected Peak Output Power (dBm)	Limit (dBm)	Conclusion
Bluetooth LE (2Mbps)	0	2402	1.684		1.68	≤ 30	Pass
	19	2440	0.001		0.00	≤ 30	Pass
	39	2480	-0.781		-0.78	≤ 30	Pass
Bluetooth BDR	0	2402	-3.215		-3.22	≤ 30	Pass
	19	2441	-3.782		-3.78	≤ 30	Pass
	39	2480	-4.249		-4.25	≤ 30	Pass
Bluetooth EDR	0	2402	-0.823		-0.82	≤ 30	Pass
	39	2441	-1.462		-1.46	≤ 30	Pass
	78	2480	-1.914		-1.91	≤ 30	Pass
Mode	Test CH	Frequency (MHz)	Raw Peak Output Power Path A (dBm)	Raw Peak Output Power Path B (dBm)	Corrected Peak Output Power (dBm)	Limit (dBm)	Conclusion
802.11b	0	2412	9.16	8.25	11.74	≤ 30	Pass
	7	2442	10.29	8.70	12.58	≤ 30	Pass
	11	2462	10.55	9.74	13.17	≤ 30	Pass
802.11g	0	2412	10.82	9.87	13.38	≤ 30	Pass
	7	2442	11.96	10.65	14.36	≤ 30	Pass
	11	2462	12.13	12.02	15.09	≤ 30	Pass
802.11n (20)	0	2412	10.95	9.95	13.49	≤ 30	Pass
	7	2442	11.82	10.73	14.32	≤ 30	Pass
	11	2462	12.09	11.73	14.92	≤ 30	Pass
Test Equipment: Please refer to section 5.2							



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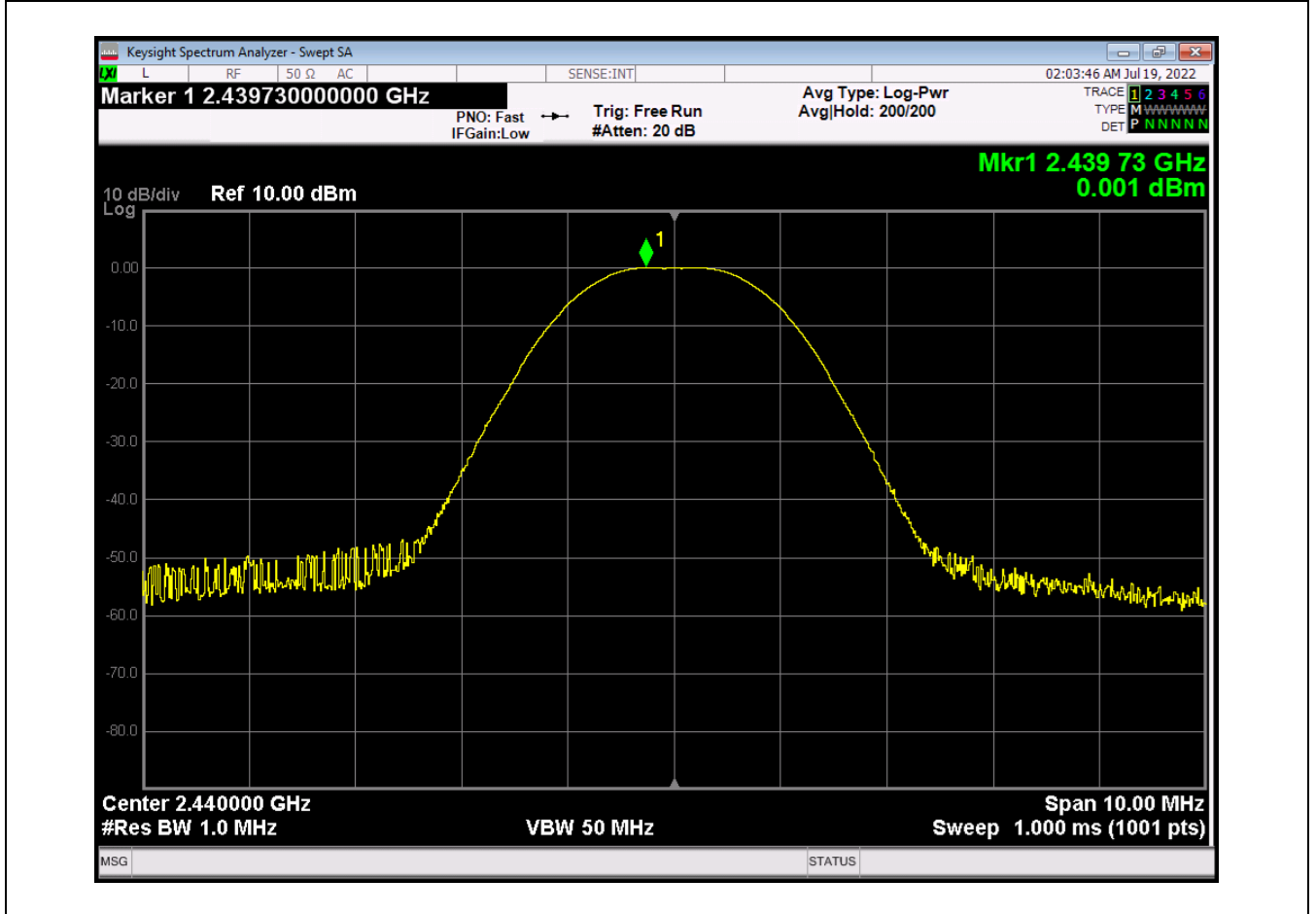


BLE Ch 0



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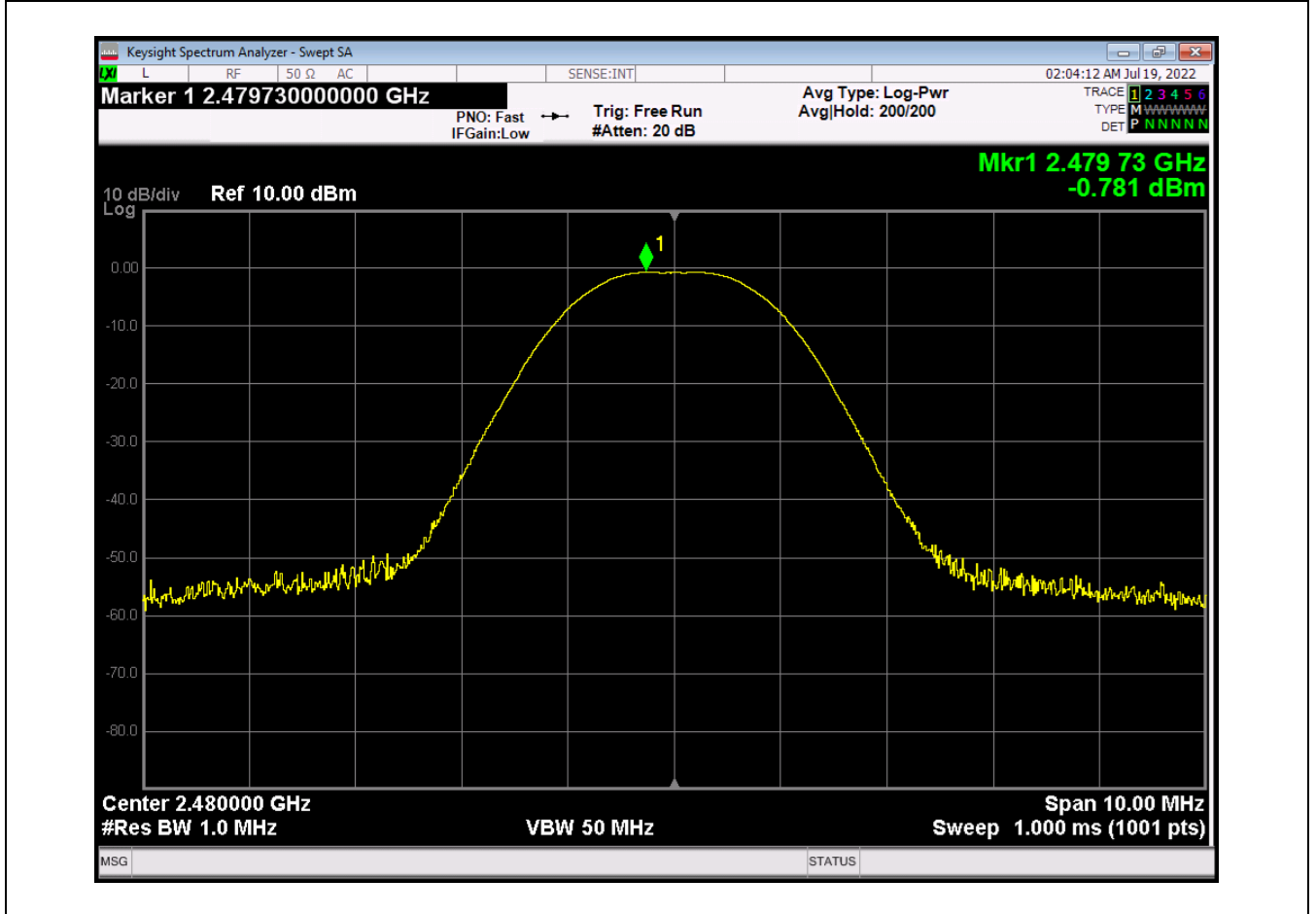


BLE Ch 19



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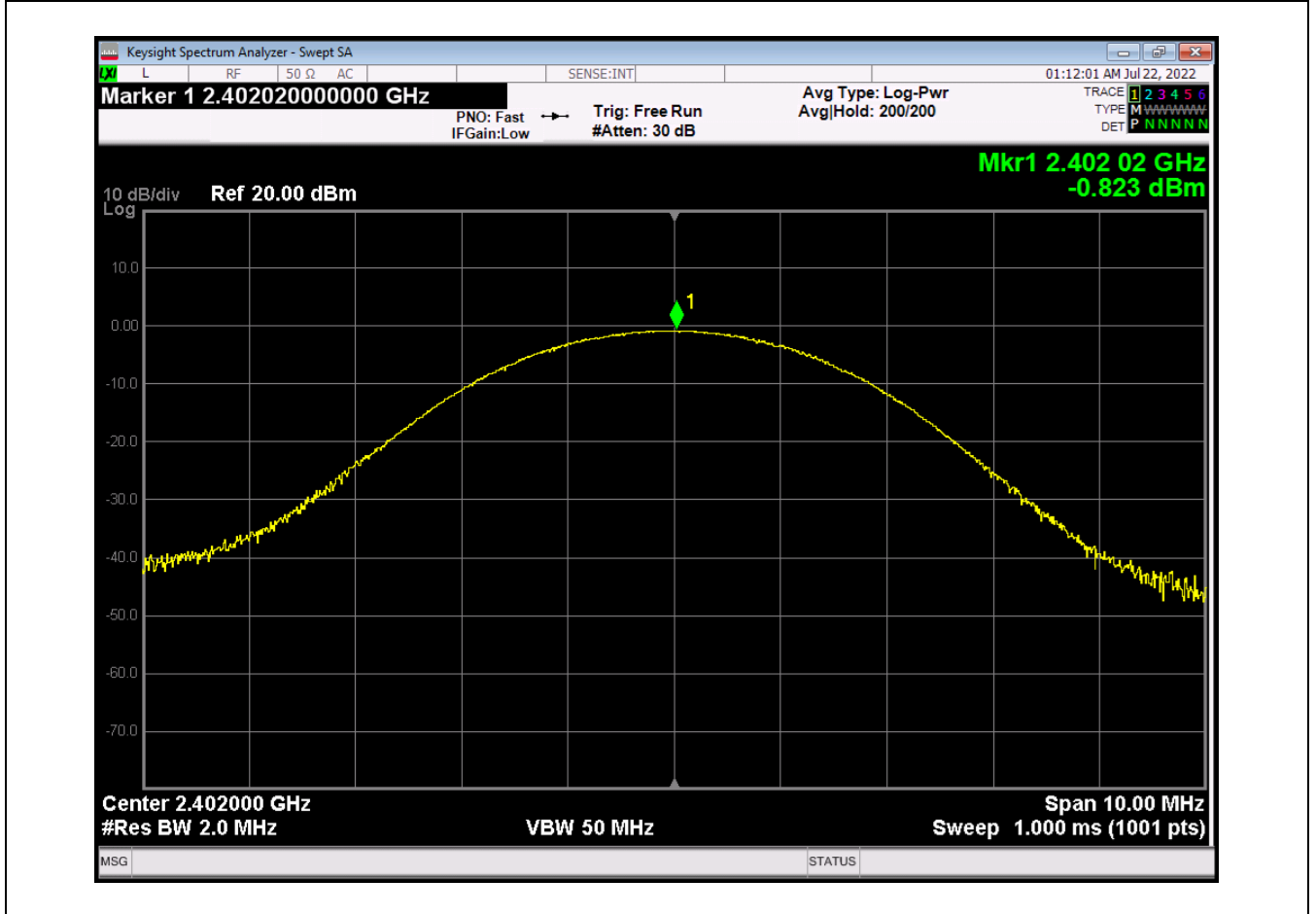


BLE Ch 39



ELECTRO MAGNETIC TEST, INC.

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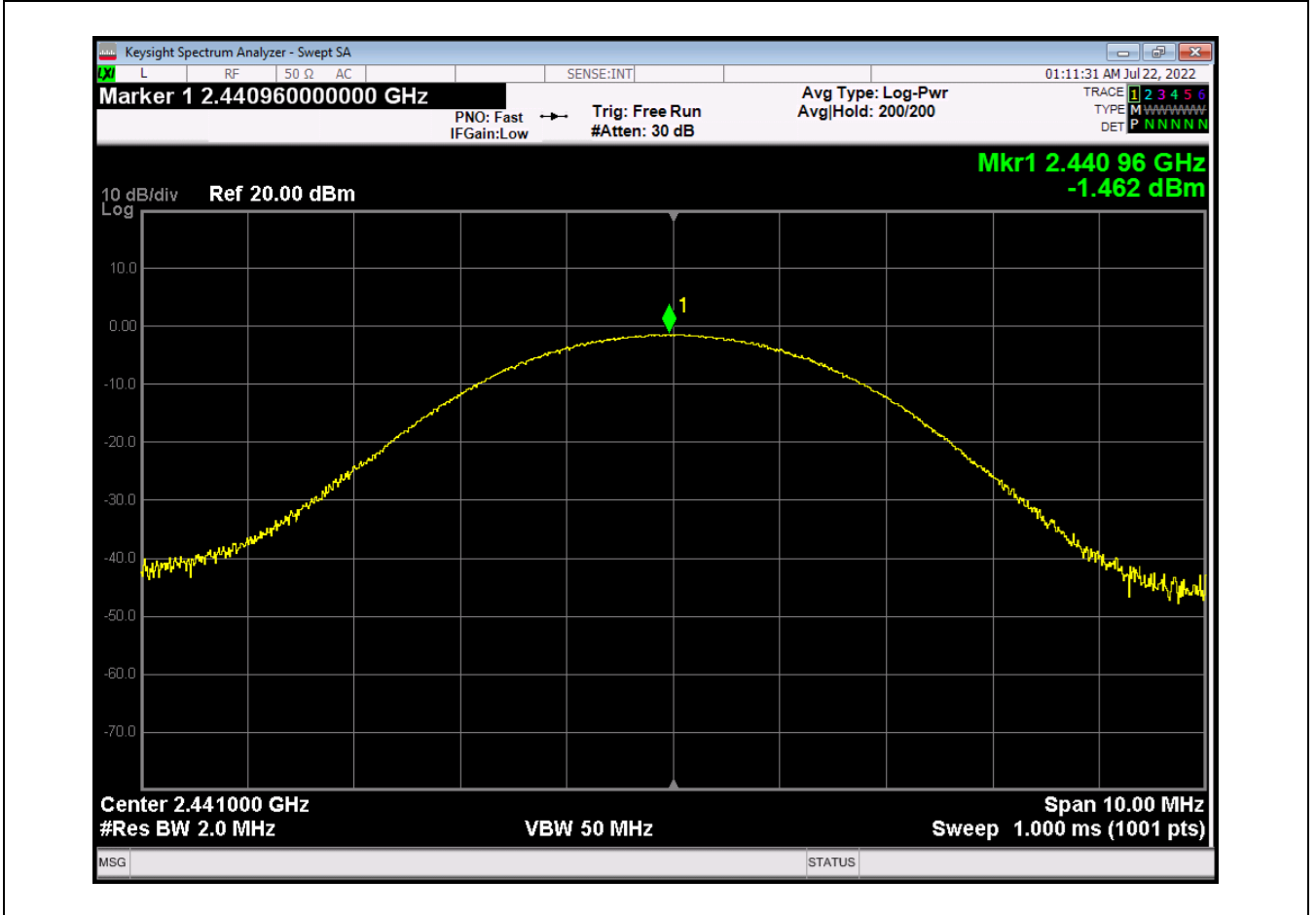


Bluetooth Ch 0



ELECTRO MAGNETIC TEST, INC.

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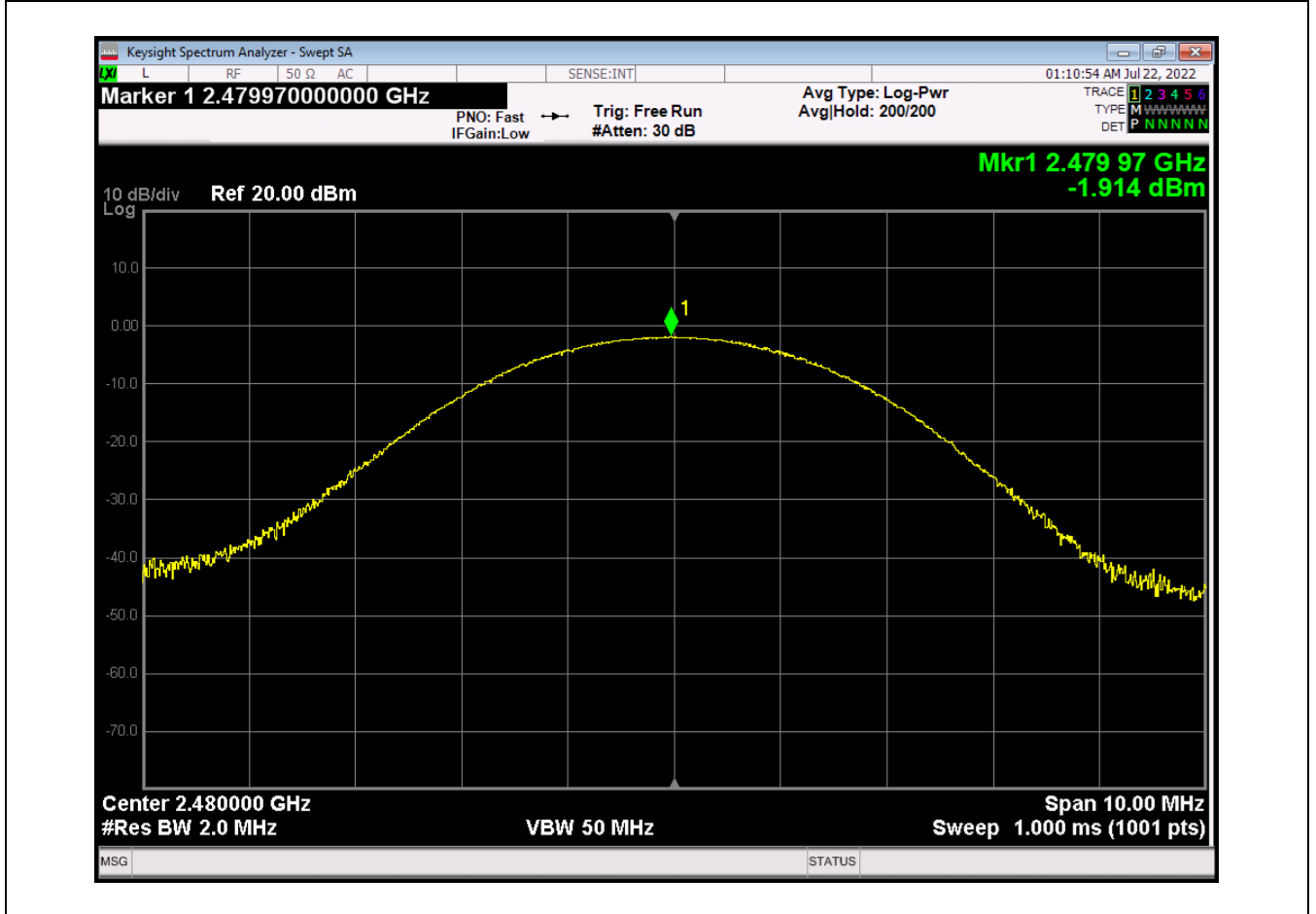


Bluetooth Ch 39



ELECTRO MAGNETIC TEST, INC.

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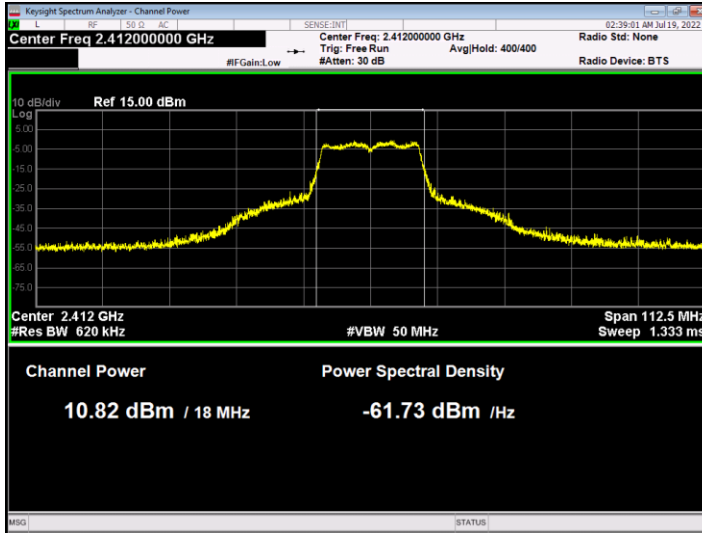


Bluetooth Ch 79

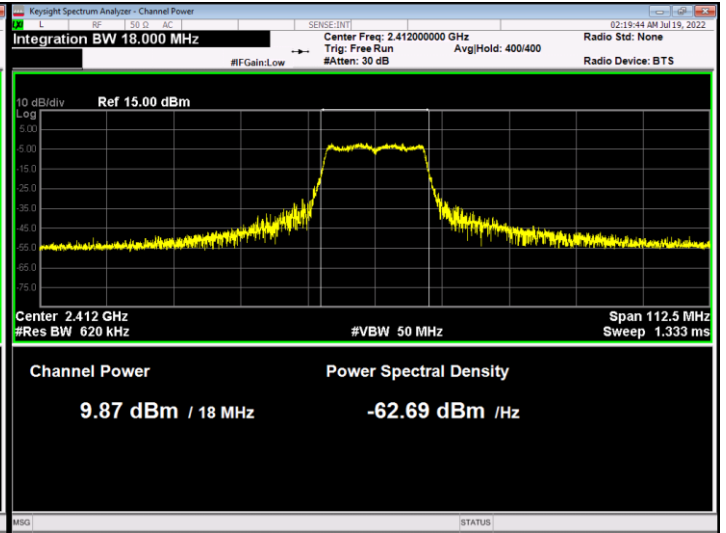


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802.11g Ch1 Path A

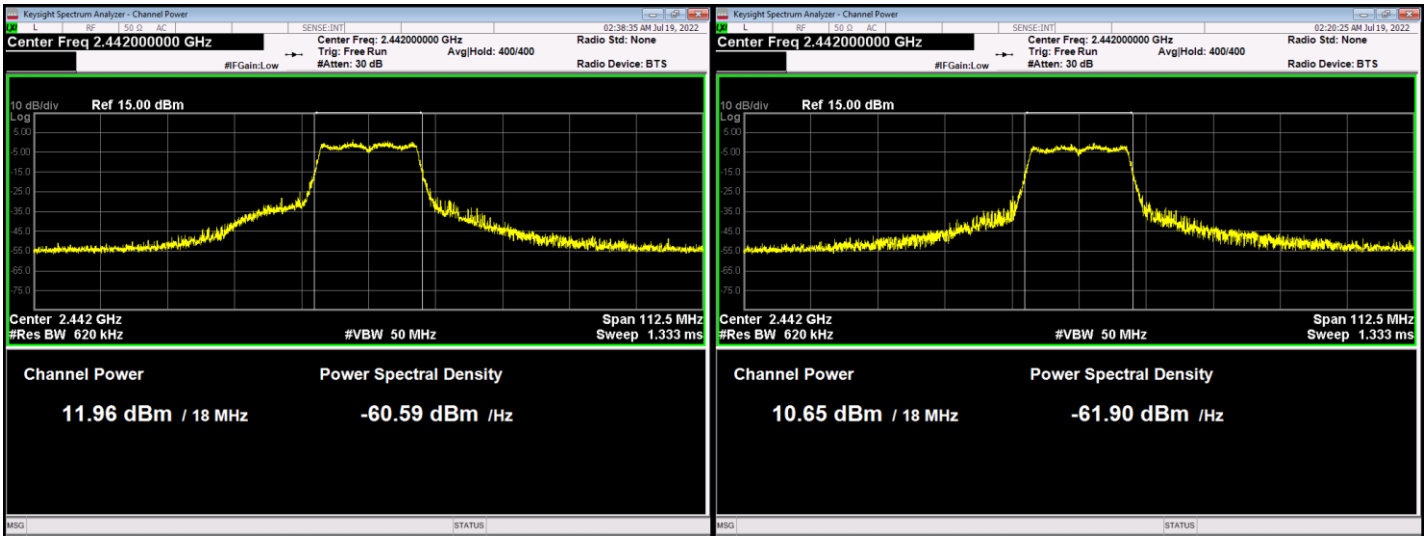


802.11g Ch1 Path B



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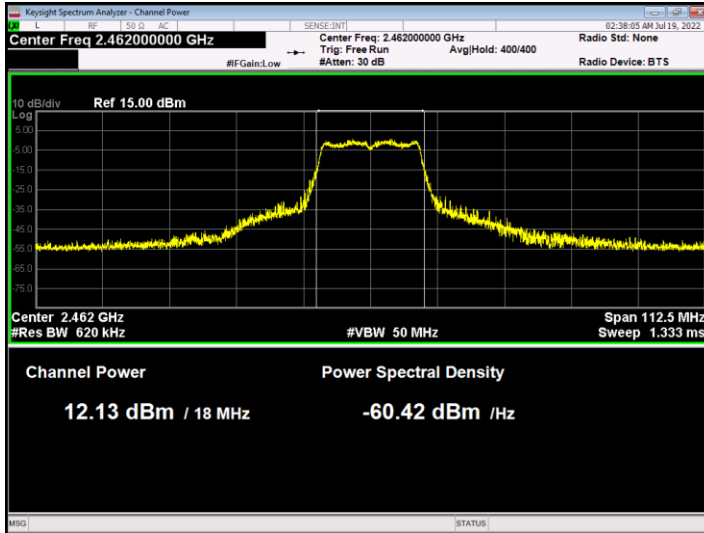
802.11g Ch7 Path A

802.11g Ch7 Path B

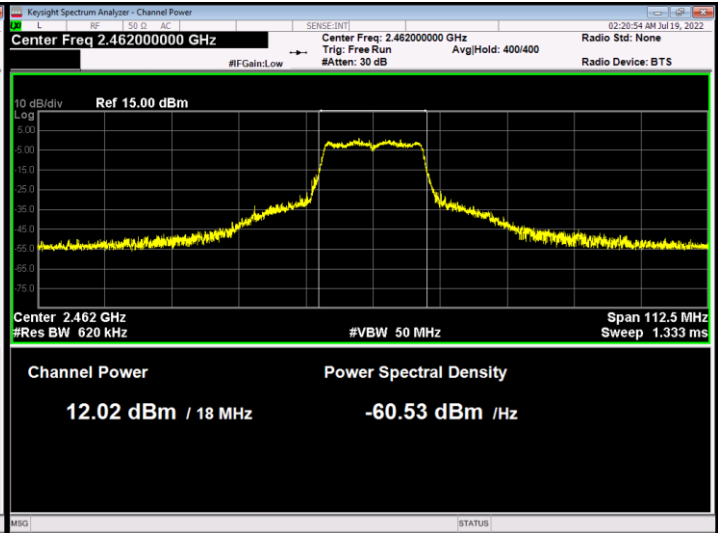


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802.11g Ch11 Path A



802.11g Ch11 Path B



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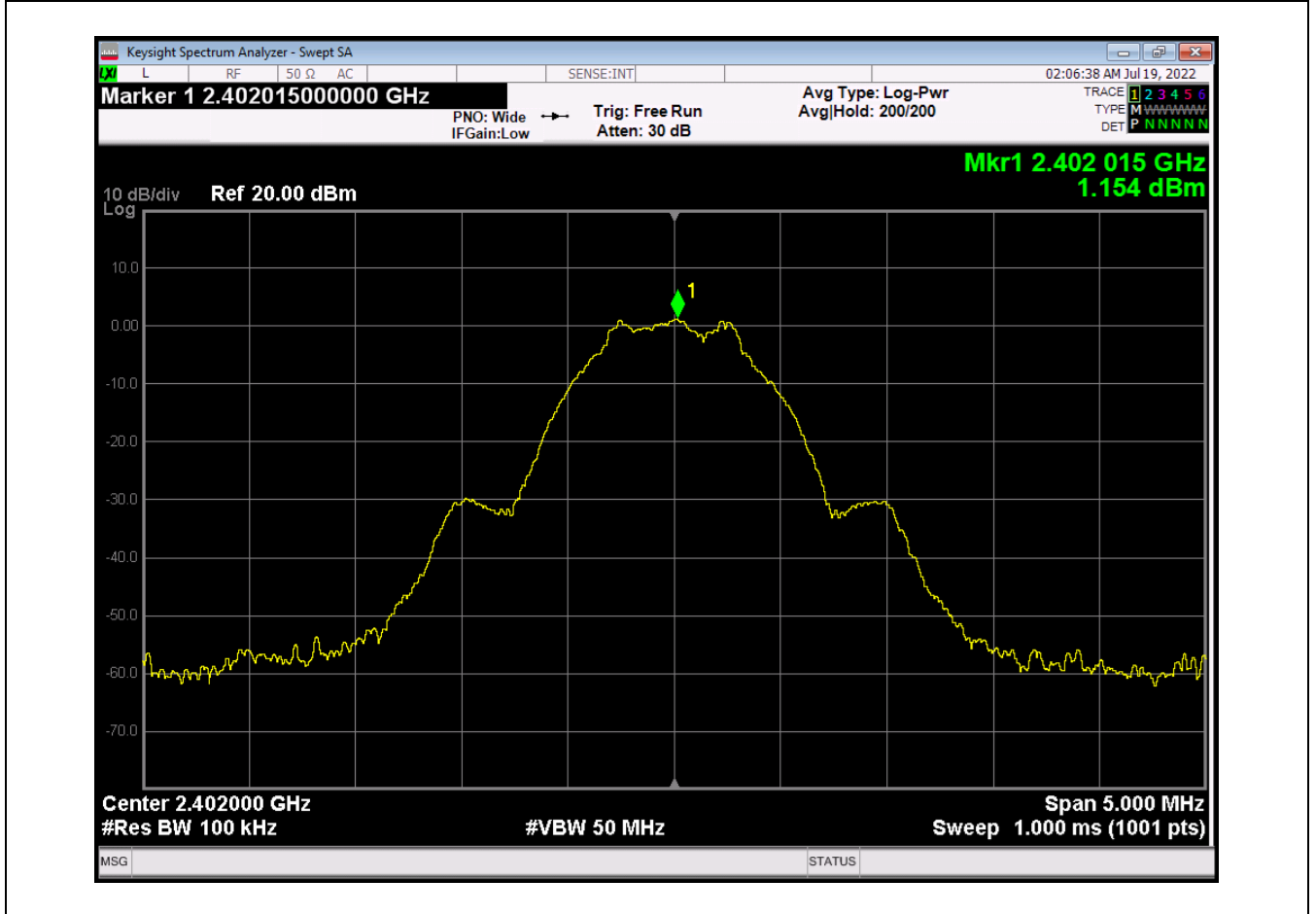
Maximum Power Spectral Density Test Data

Company:	Aptiv Services US LLC.	Test Date	1/21/2022				
EUT Name	EP2000	Test Engineer	Andreas Davidsson				
Model:	EP2000	Test Result	PASS				
Operating Mode	TX Mode						
Mode	Test CH	Frequency (MHz)	Peak (dBm)			Limit (dBm)	Conclusion
Bluetooth LE (2Mbps)	0	2402	1.154			≤ 8	Pass
	19	2440	-0.472			≤ 8	Pass
	39	2480	-1.243			≤ 8	Pass
Bluetooth BDR	0	2402	-3.369			≤ 8	Pass
	39	2441	-3.977			≤ 8	Pass
	78	2480	-4.443			≤ 8	Pass
Bluetooth EDR	0	2402	-3.656			≤ 8	Pass
	39	2441	-4.131			≤ 8	Pass
	78	2480	-5.012			≤ 8	Pass
Mode	Test CH	Frequency (MHz)	Raw Peak Path A (dBm)	Raw Peak Path B (dBm)	Final Peak (dBm)	Limit (dBm)	Conclusion
802.11b	0	2412	-6.185	-7.724	-3.88	≤ 8	Pass
	7	2442	-5.512	-6.563	-3.00	≤ 8	Pass
	11	2462	-4.489	-5.490	-1.95	≤ 8	Pass
802.11g	0	2412	-6.799	-7.861	-4.29	≤ 8	Pass
	7	2442	-5.874	-6.967	-3.38	≤ 8	Pass
	11	2462	-5.548	-5.944	-2.73	≤ 8	Pass
802.11n (20)	0	2412	-7.130	-7.580	-4.34	≤ 8	Pass
	7	2442	-6.031	-6.571	-3.28	≤ 8	Pass
	11	2462	-5.664	-5.863	-2.75	≤ 8	Pass
Test Equipment: Please refer to 5.2							



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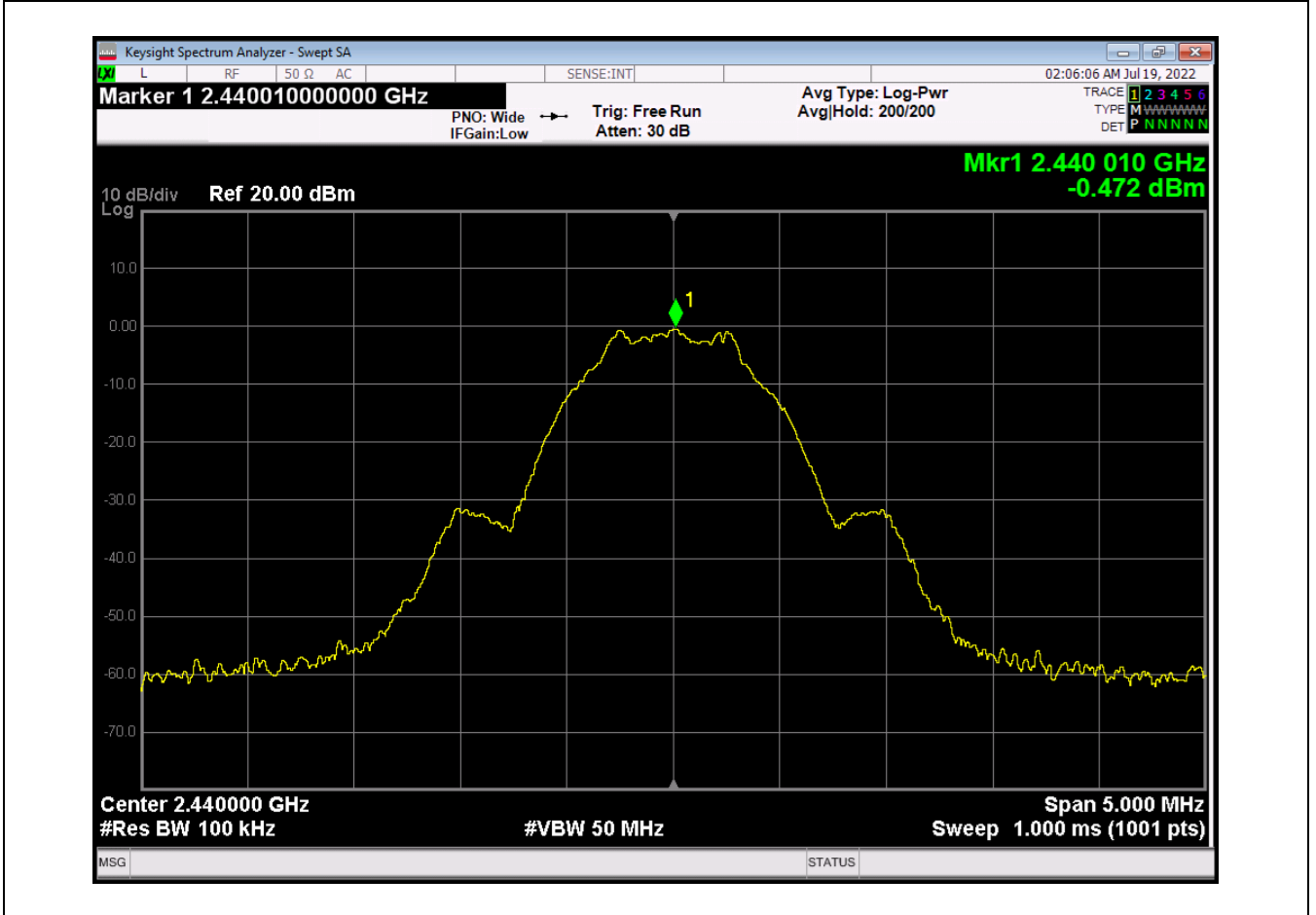


BLE Ch 0



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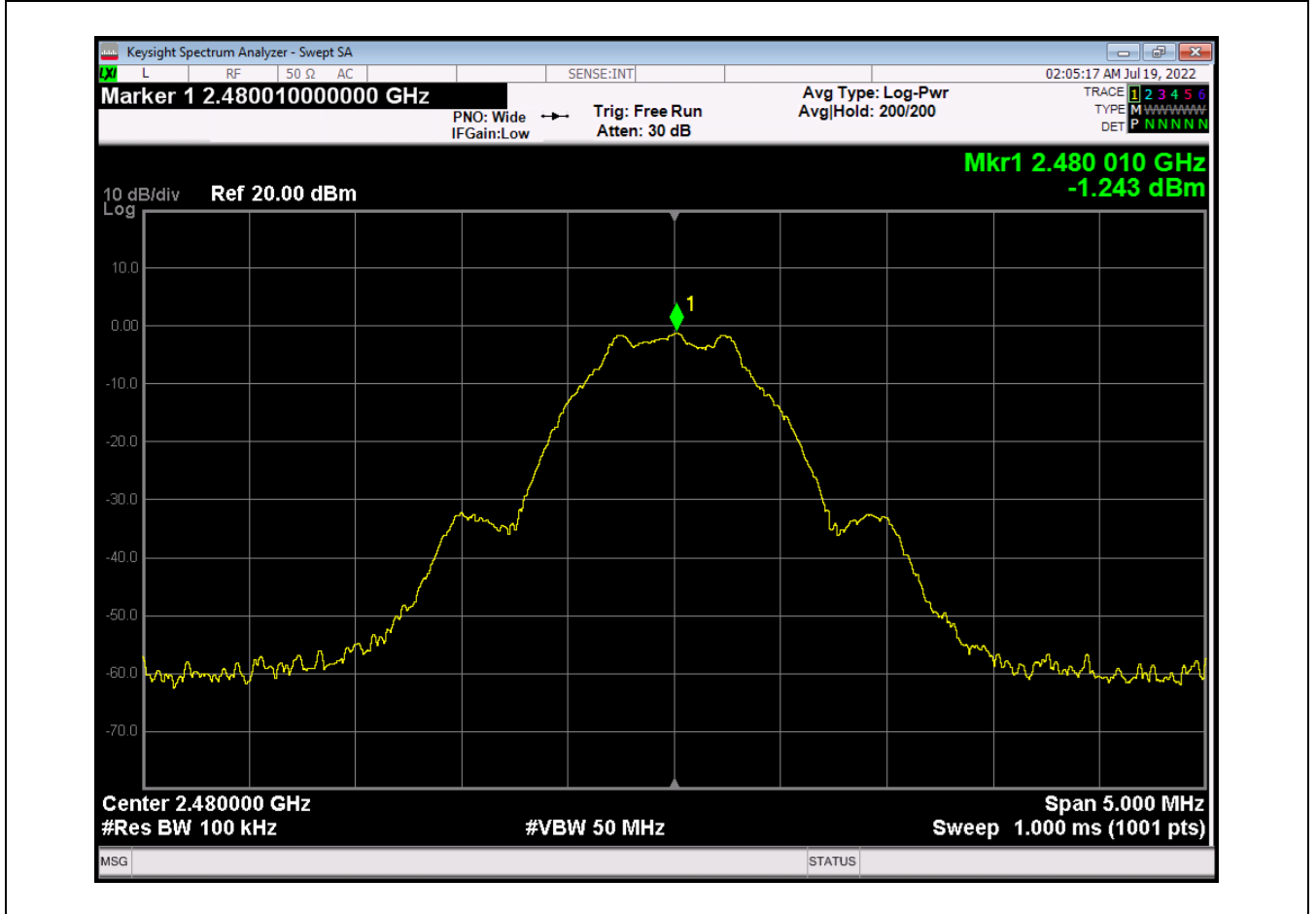


BLE Ch 19



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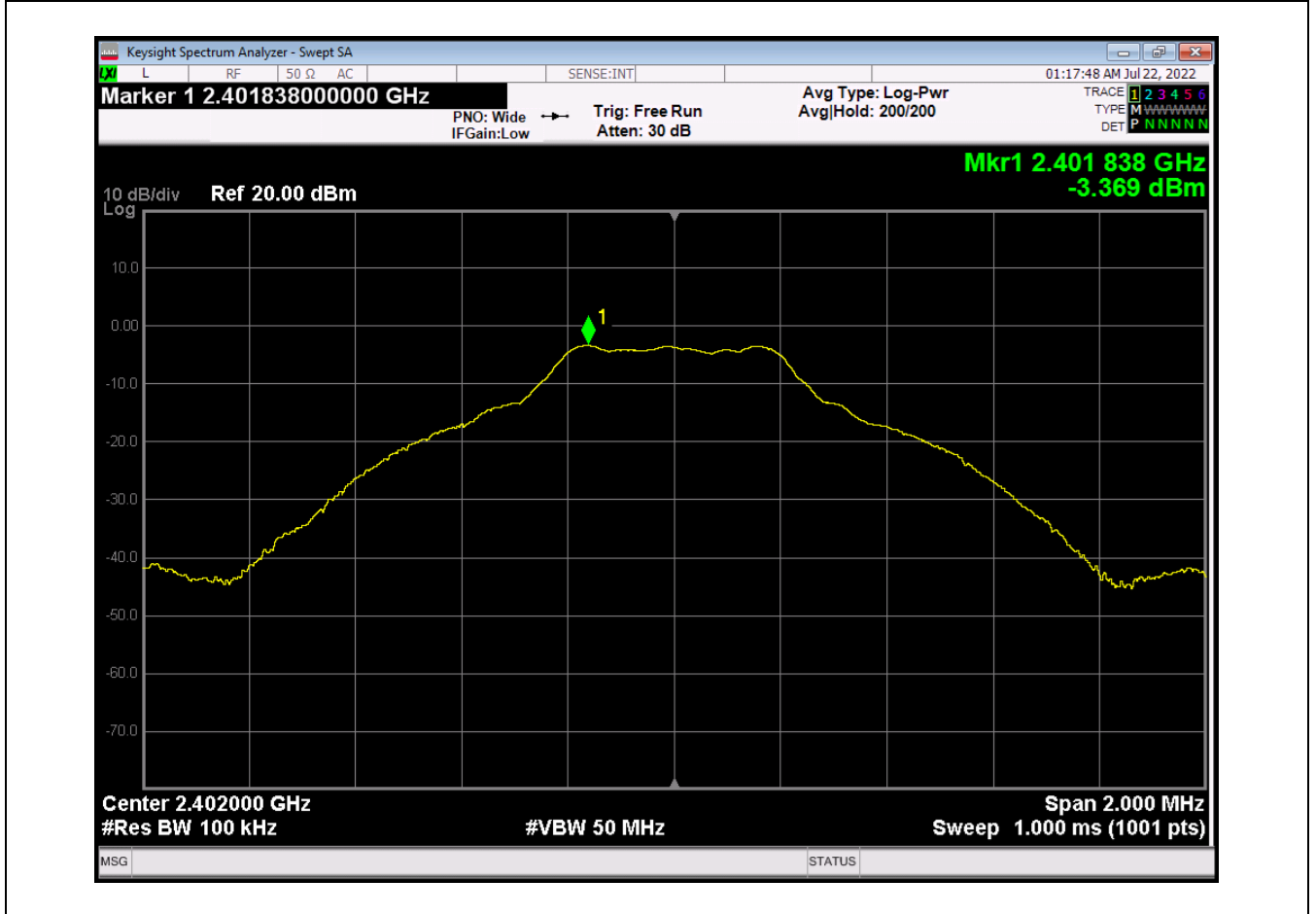


BLE Ch 39



ELECTRO MAGNETIC TEST, INC.

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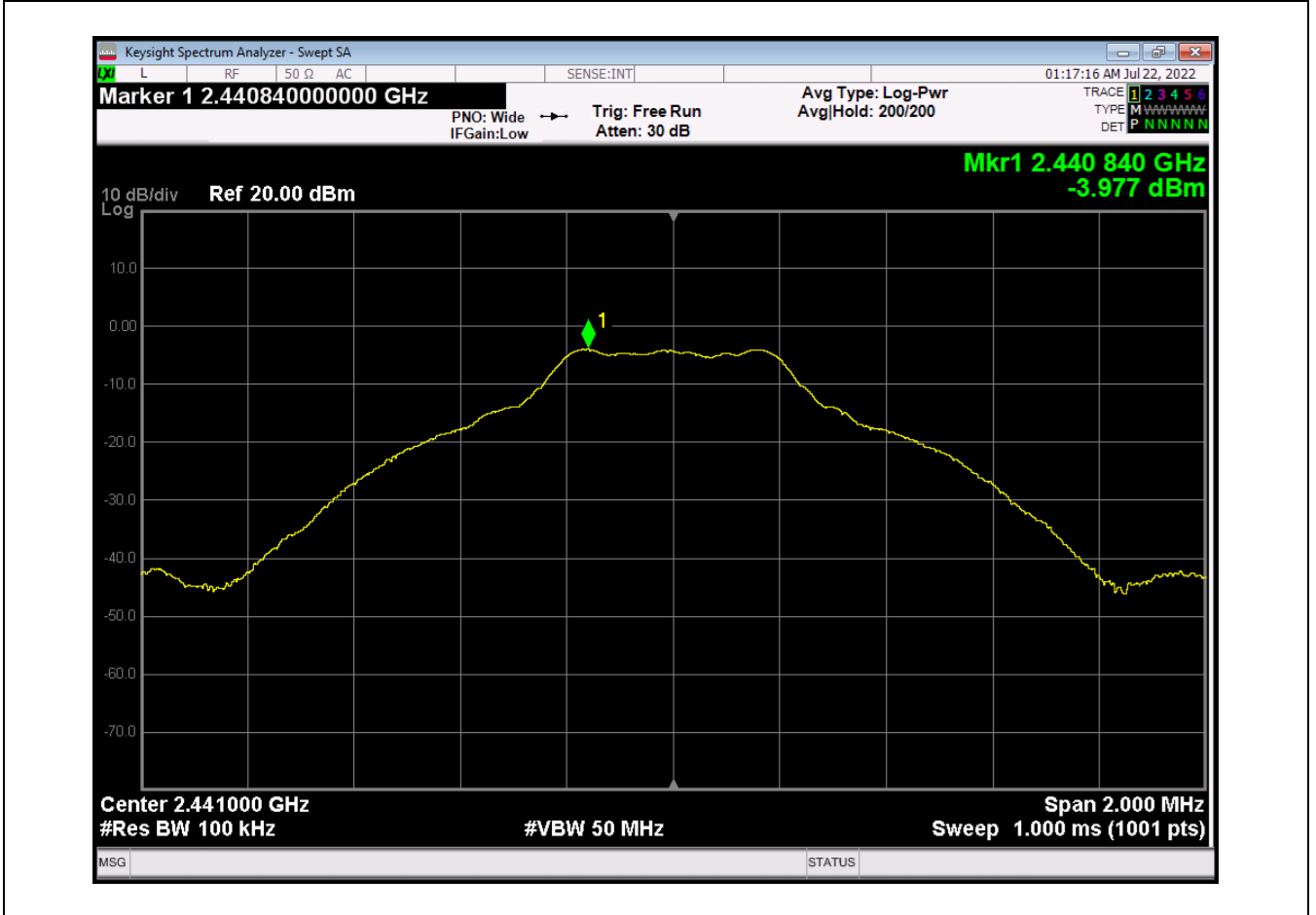


Bluetooth Ch 0



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1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

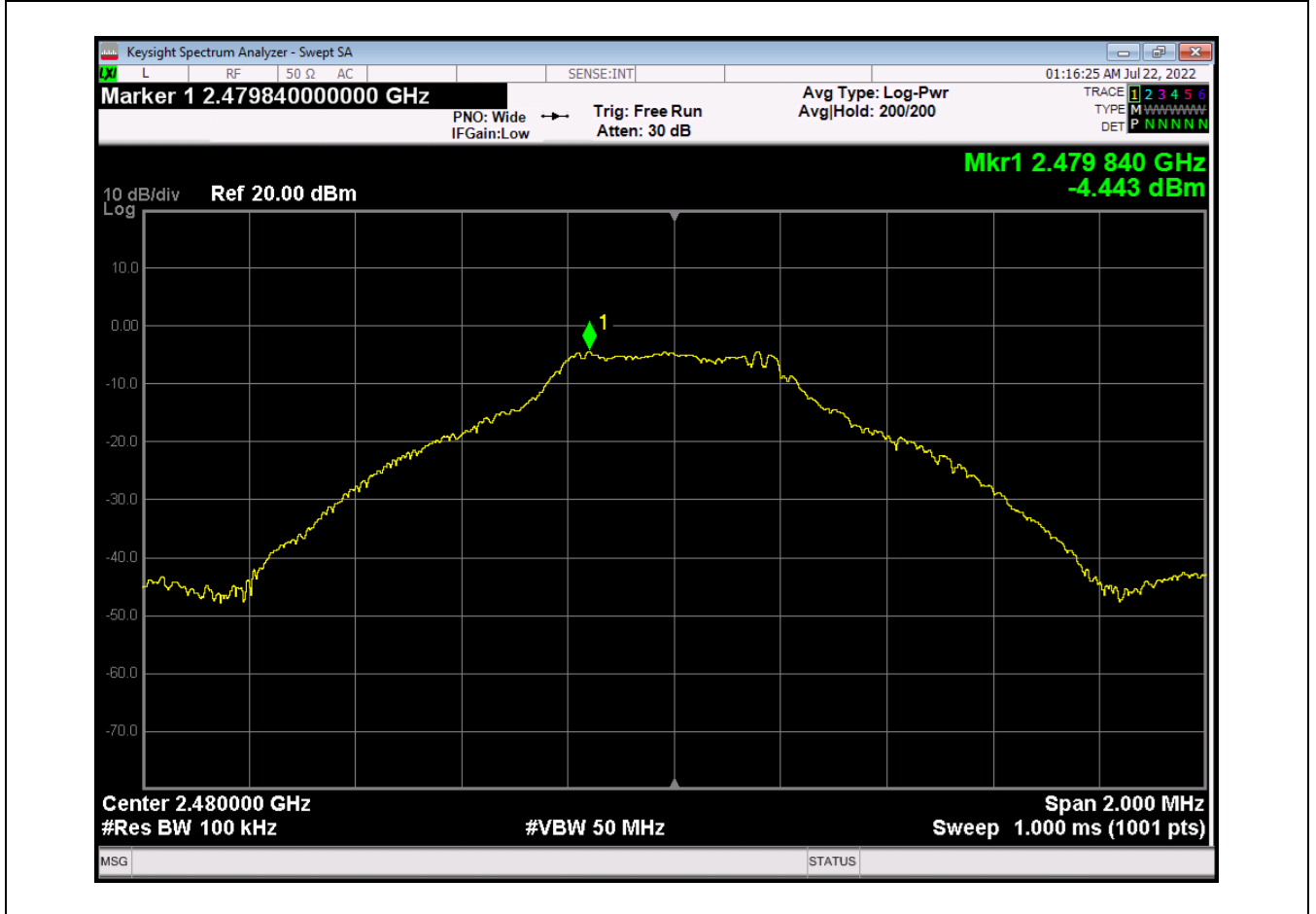


Bluetooth Ch 39



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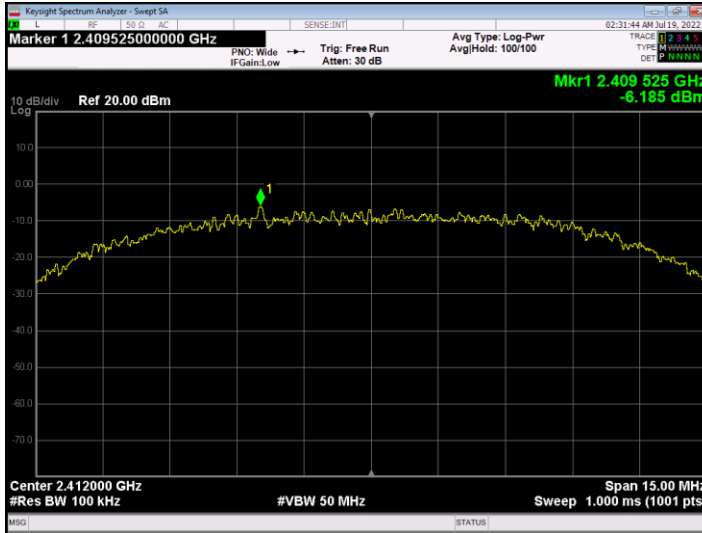


Bluetooth Ch 79

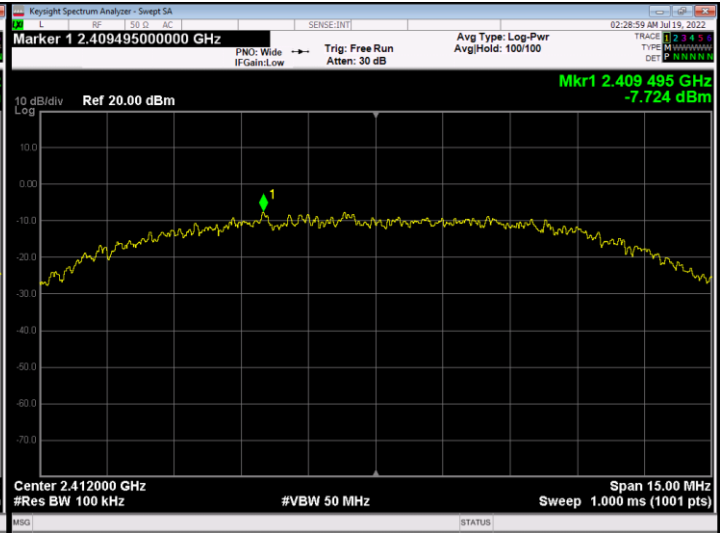


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802.11b Ch1 Path A

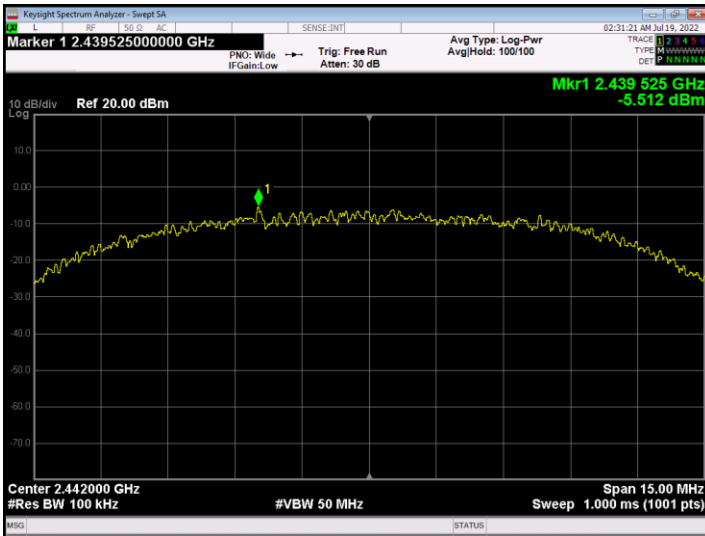


802.11b Ch1 Path B

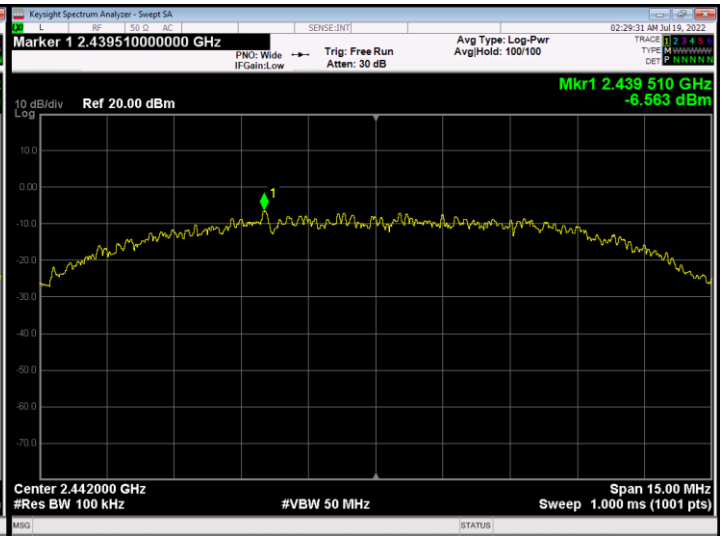


ELECTRO MAGNETIC TEST, INC.

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802.11b Ch7 Path A

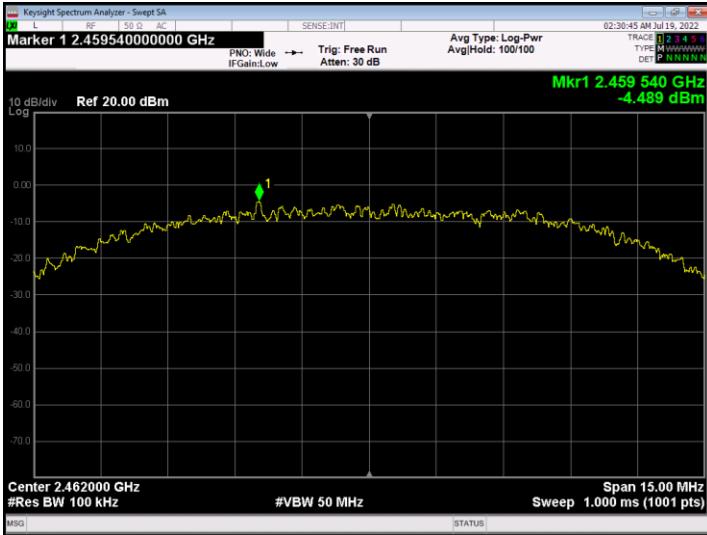


802.11b Ch7 Path B

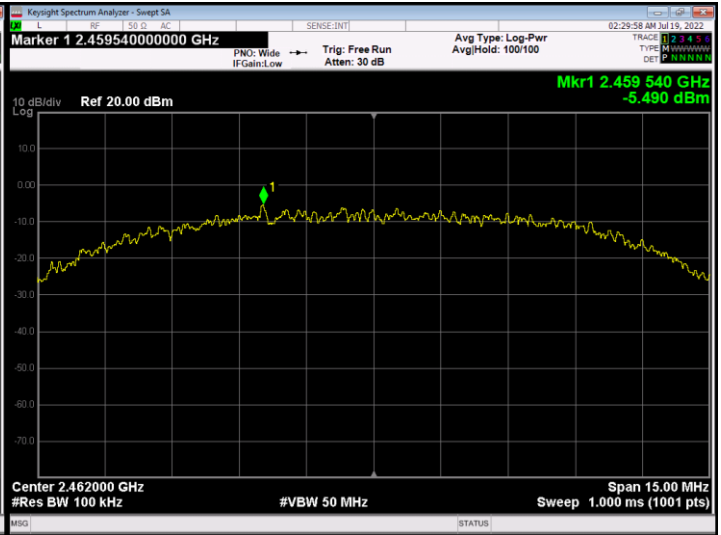


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802.11b Ch11 Path A



802.11b Ch11 Path B



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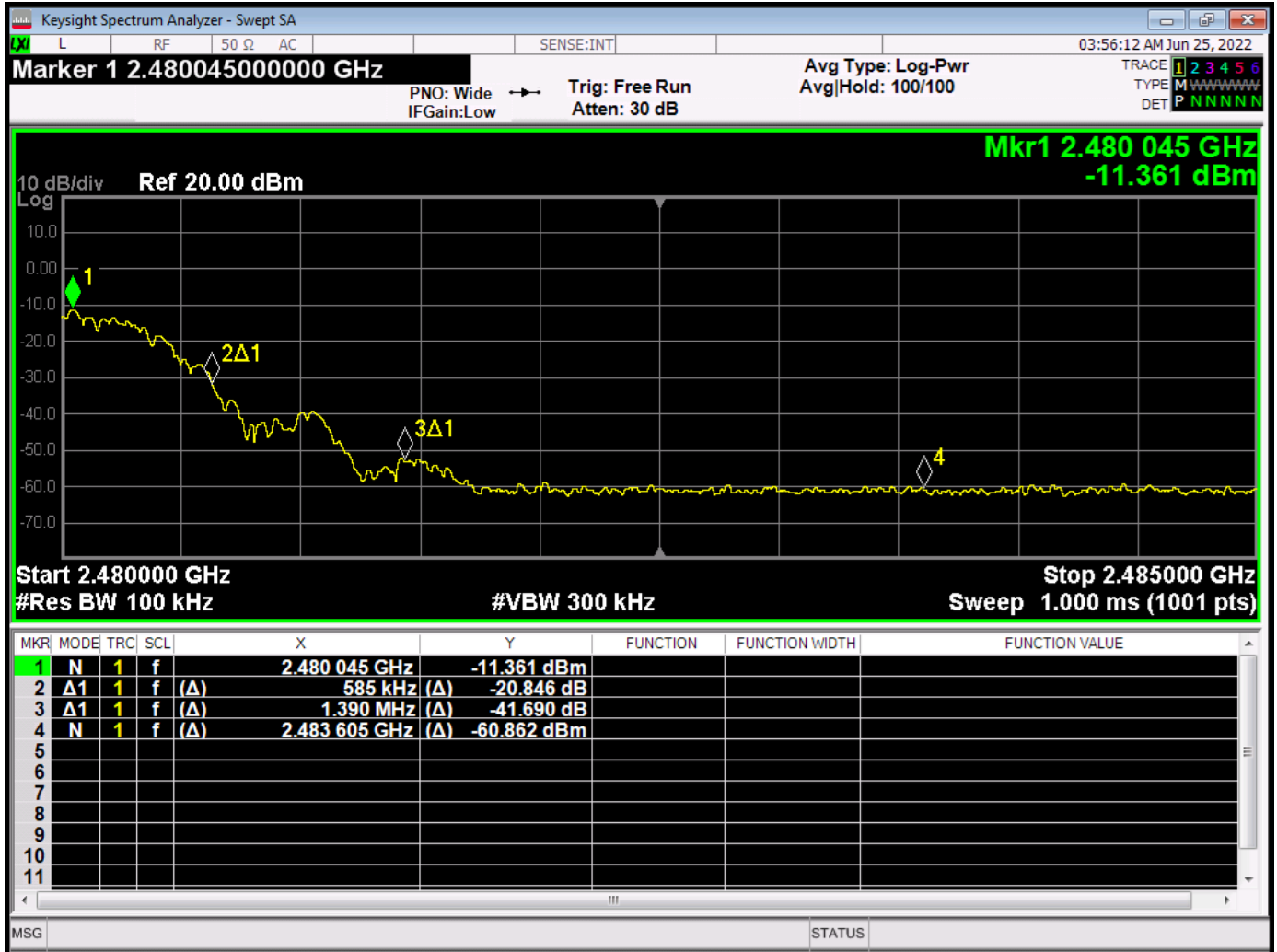
Band Edge In The Restricted Bands

Company:	Aptiv Services US LLC.		Test Date	7/21/2022				
EUT Name	EP2000		Test Engineer	Andreas Davidsson				
Model:	EP2000		Test Result	PASS				
Operating Mode	TX Mode							
Mode	Test CH	Frequency (MHz)	Conclusion					
Bluetooth LE (2Mbps)	0	2402	Pass					
	39	2480	Pass					
Bluetooth (Non Hopping)	0	2402	Pass					
	78	2480	Pass					
Bluetooth (Hopping)	0	2402	Pass					
	78	2480	Pass					
802.11b	0	2412	Pass					
	11	2462	Pass					
802.11g	0	2412	Pass					
	11	2462	Pass					
802.11n (20)	0	2412	Pass					
	11	2462	Pass					
Mode	Test CH	Frequency (MHz)	Raw Peak Output Power (dBm)	Antenna Gain (dBi)	Corrected Peak Output Power (dBuV/m)	Limit (dBuV/m)	Conclusion	
Bluetooth LE	39	2480	-60.175	1.11	36.19	53.98	Pass	
Bluetooth BDR	78	2480	-61.241	1.11	35.13	53.98	Pass	
Bluetooth EDR	78	2480	-60.412	1.11	35.96	53.98	Pass	
Mode	Test CH	Frequency (MHz)	Raw Peak Output Power Path A External (dBm)	Raw Peak Output Power Path B Internal (dBm)	Antenna Gain (dBi)	Corrected Peak Output Power (dBuV/m)	Limit (dBuV/m)	Conclusion
802.11b	11	2462	-59.294	-56.714	3 (Ext) / 0.97 (Int)	42.26	53.98	Pass
802.11g	11	2462	-51.039	-50.416	3 (Ext) / 0.97 (Int)	49.58	53.98	Pass
802.11n (20)	11	2462	-48.653	-49.058	3 (Ext) / 0.97 (Int)	51.57	53.98	Pass
Test Equipment: Please refer to 5.2								



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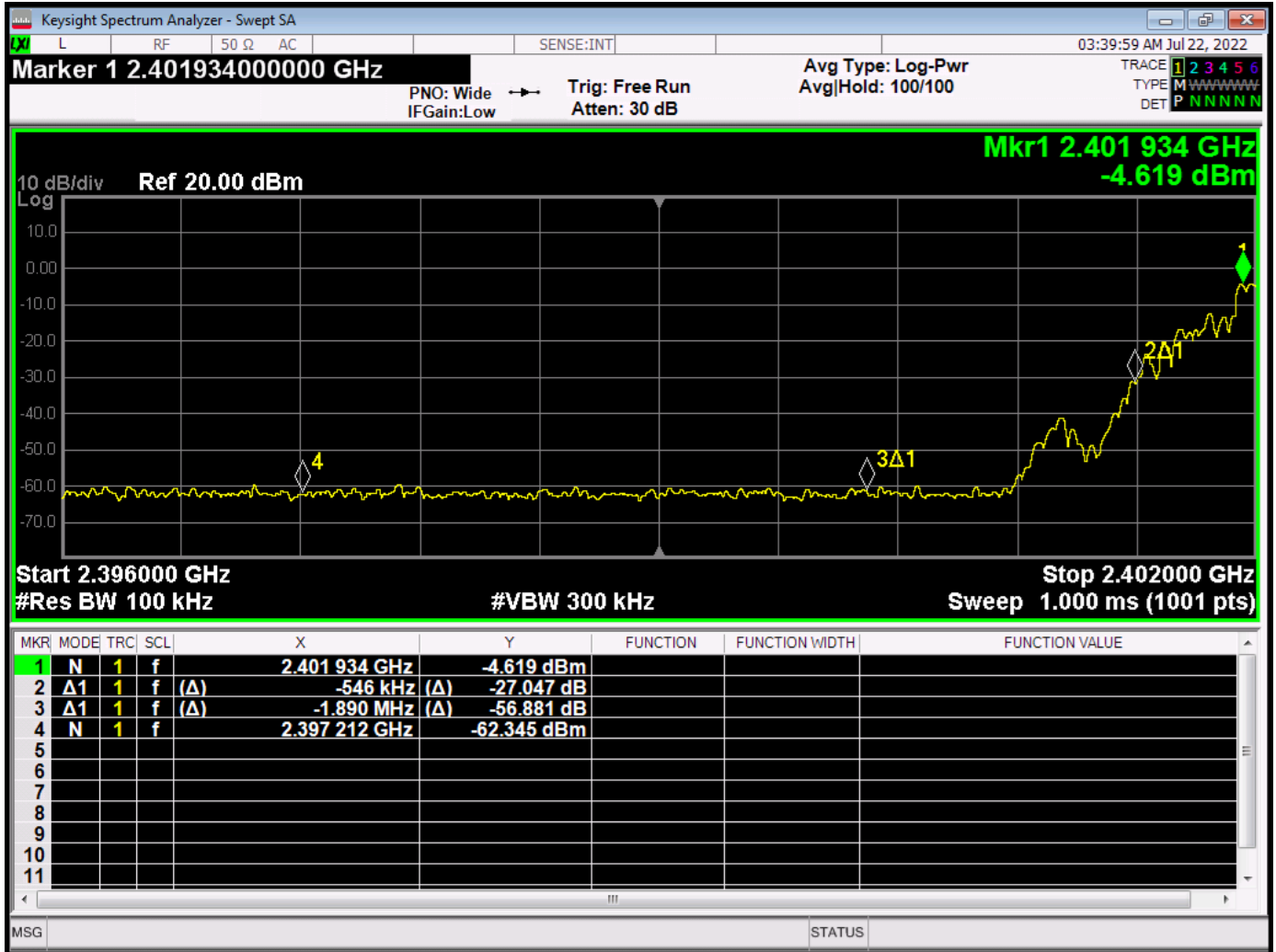


BLE (2Mbps) Ch39



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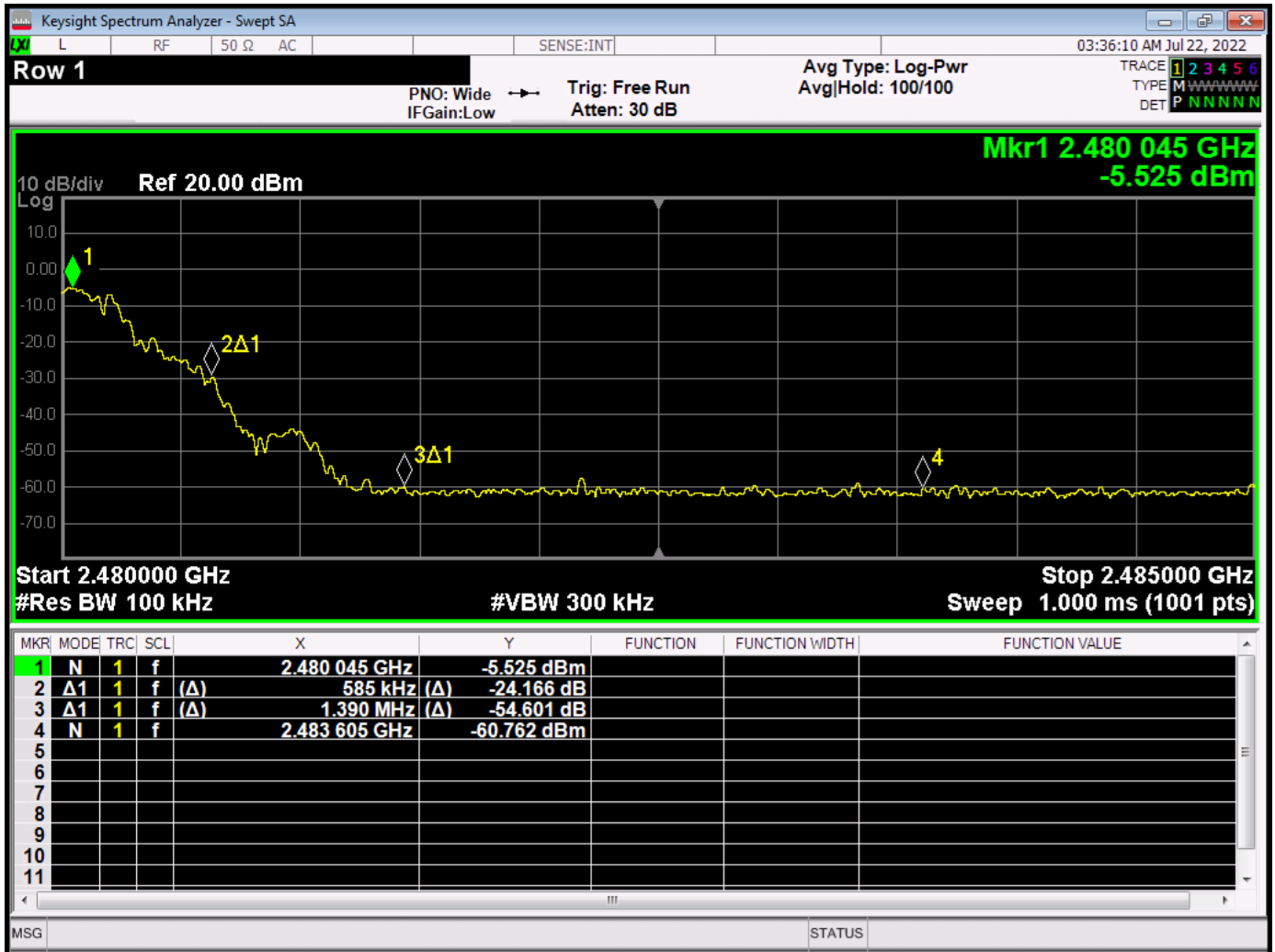


Bluetooth Hopping Ch0



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

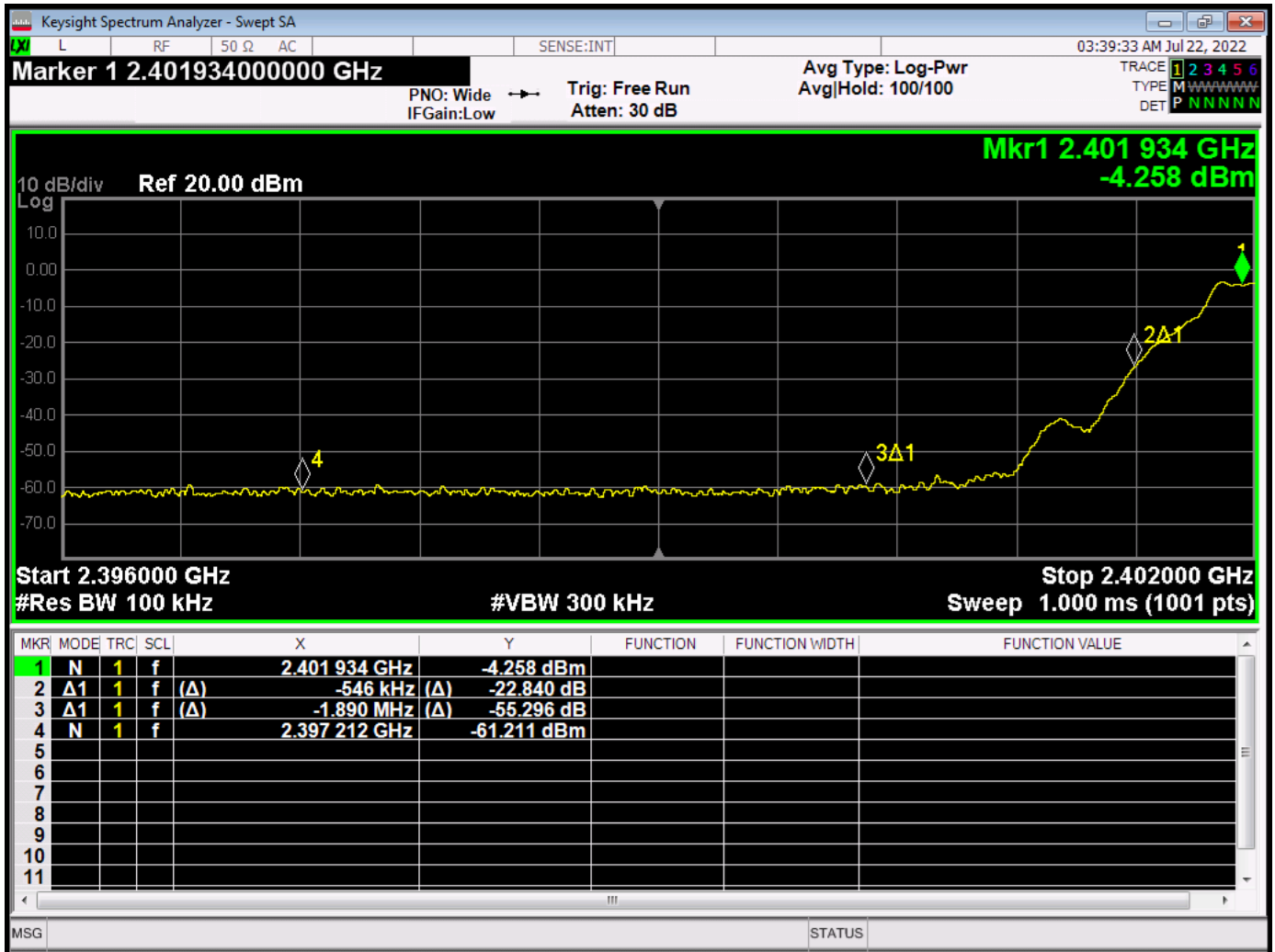


Bluetooth Hopping Ch79



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

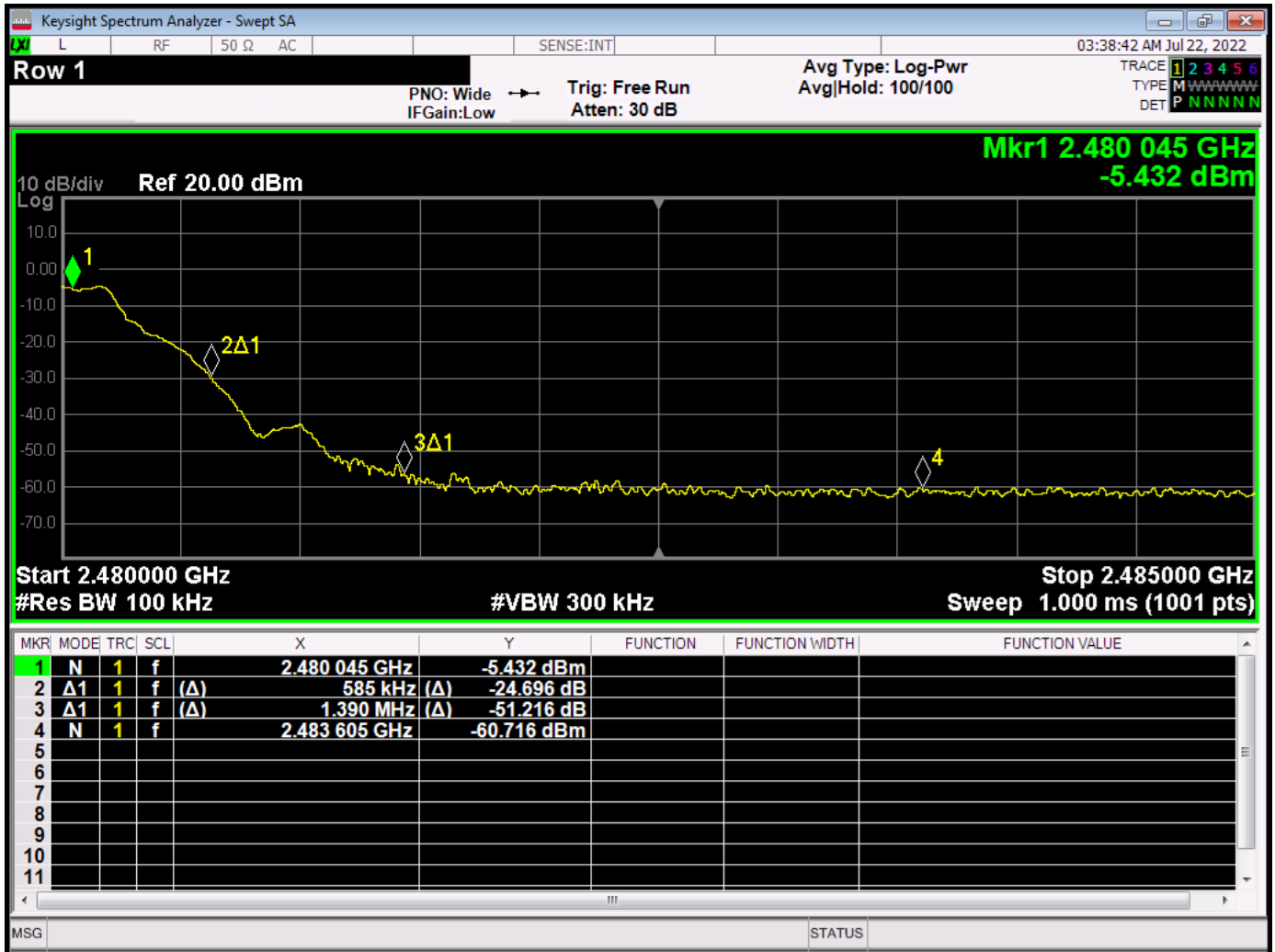


Bluetooth Non Hopping Ch0



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

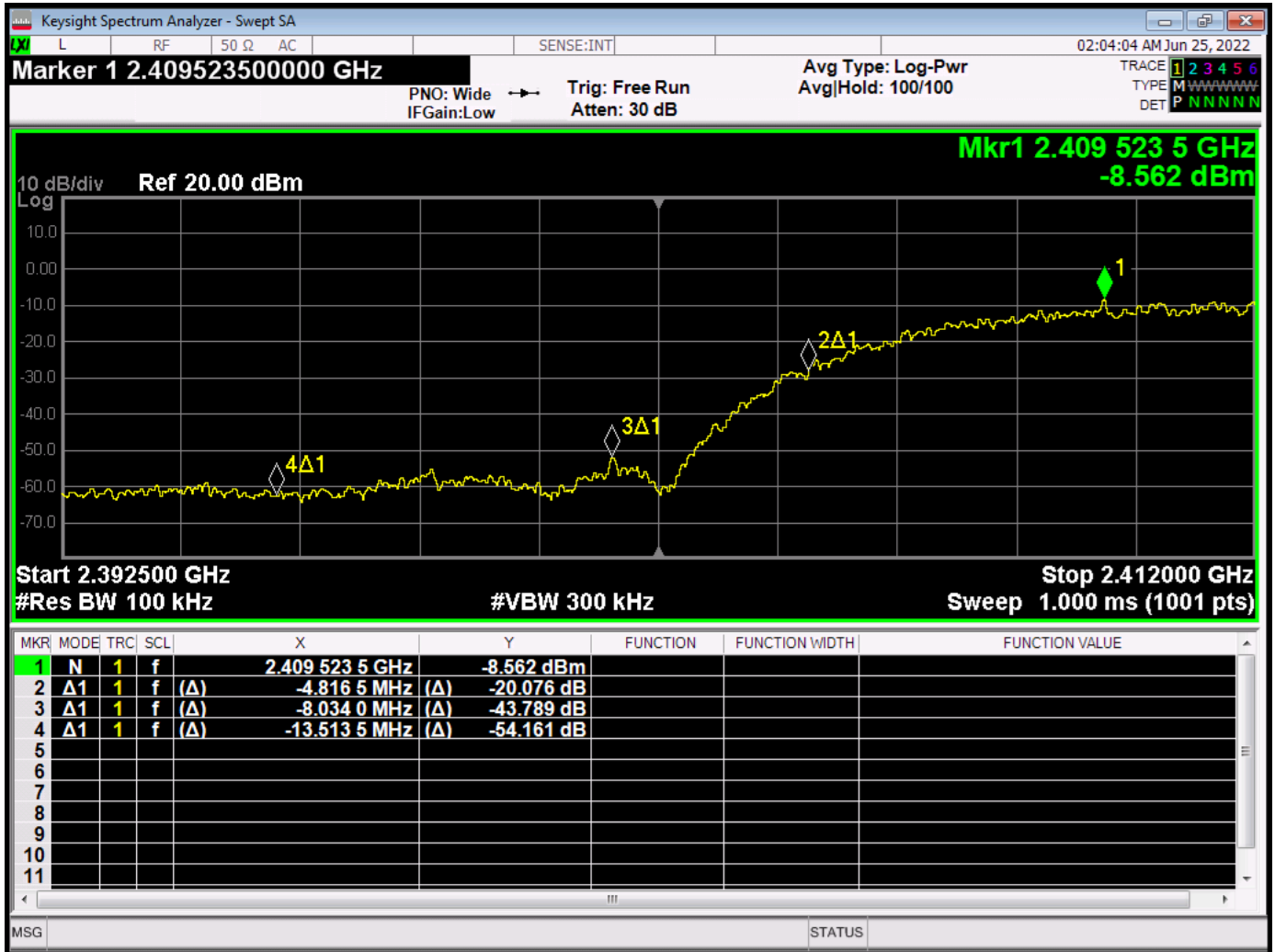


Bluetooth Non Hopping Ch79



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

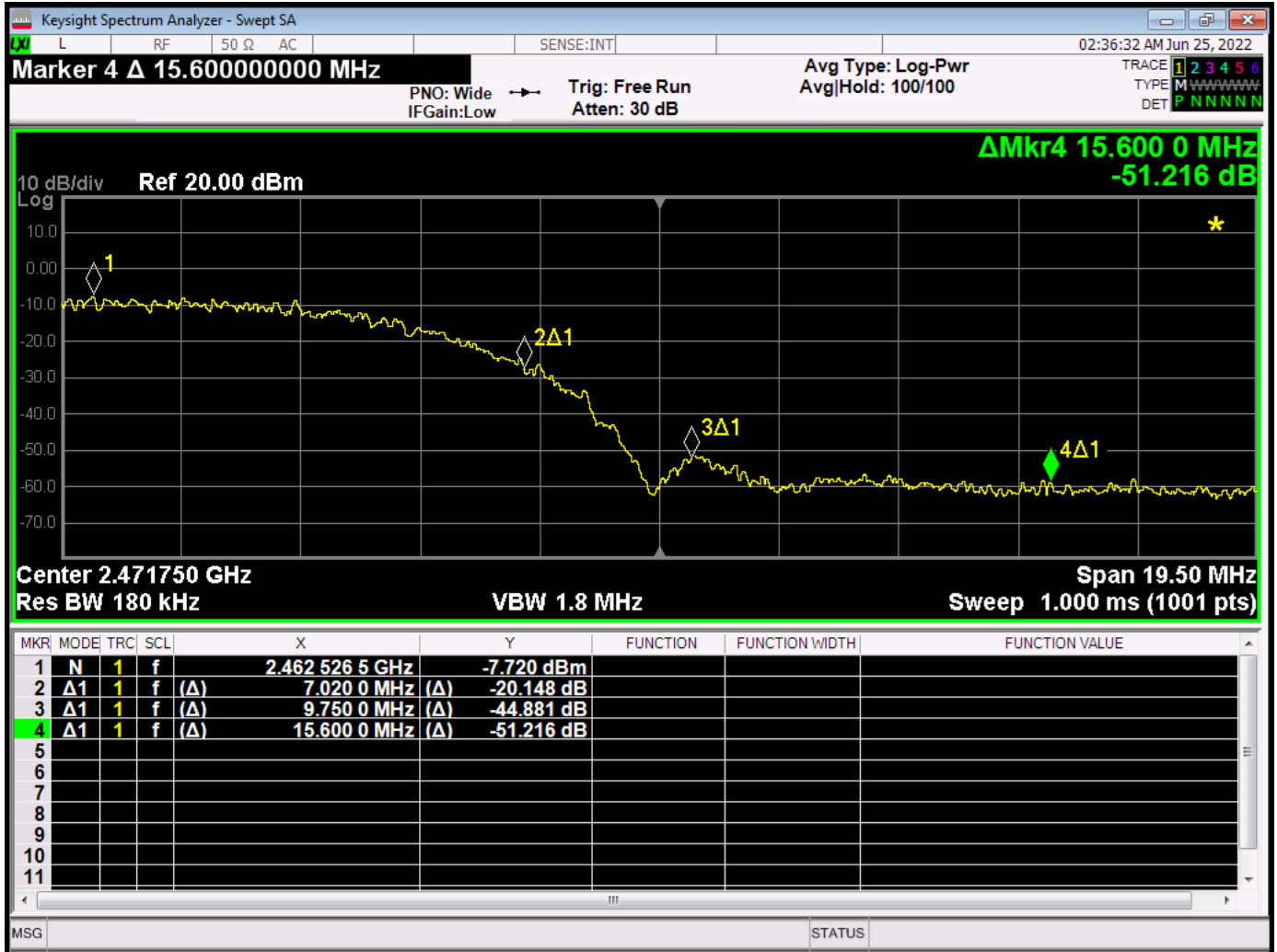


802.11b Ch1



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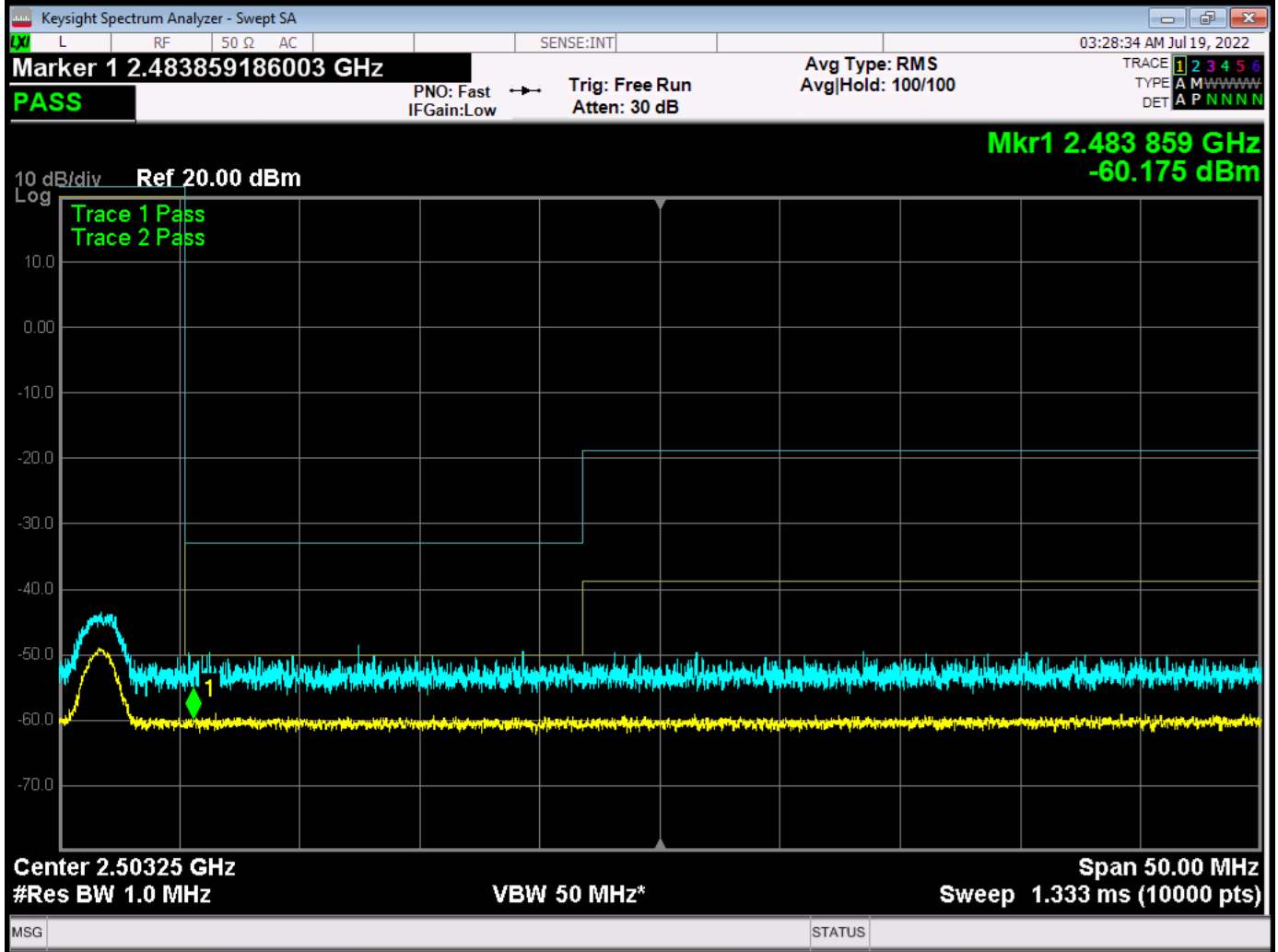


802.11b Ch11



ELECTRO MAGNETIC TEST, INC.

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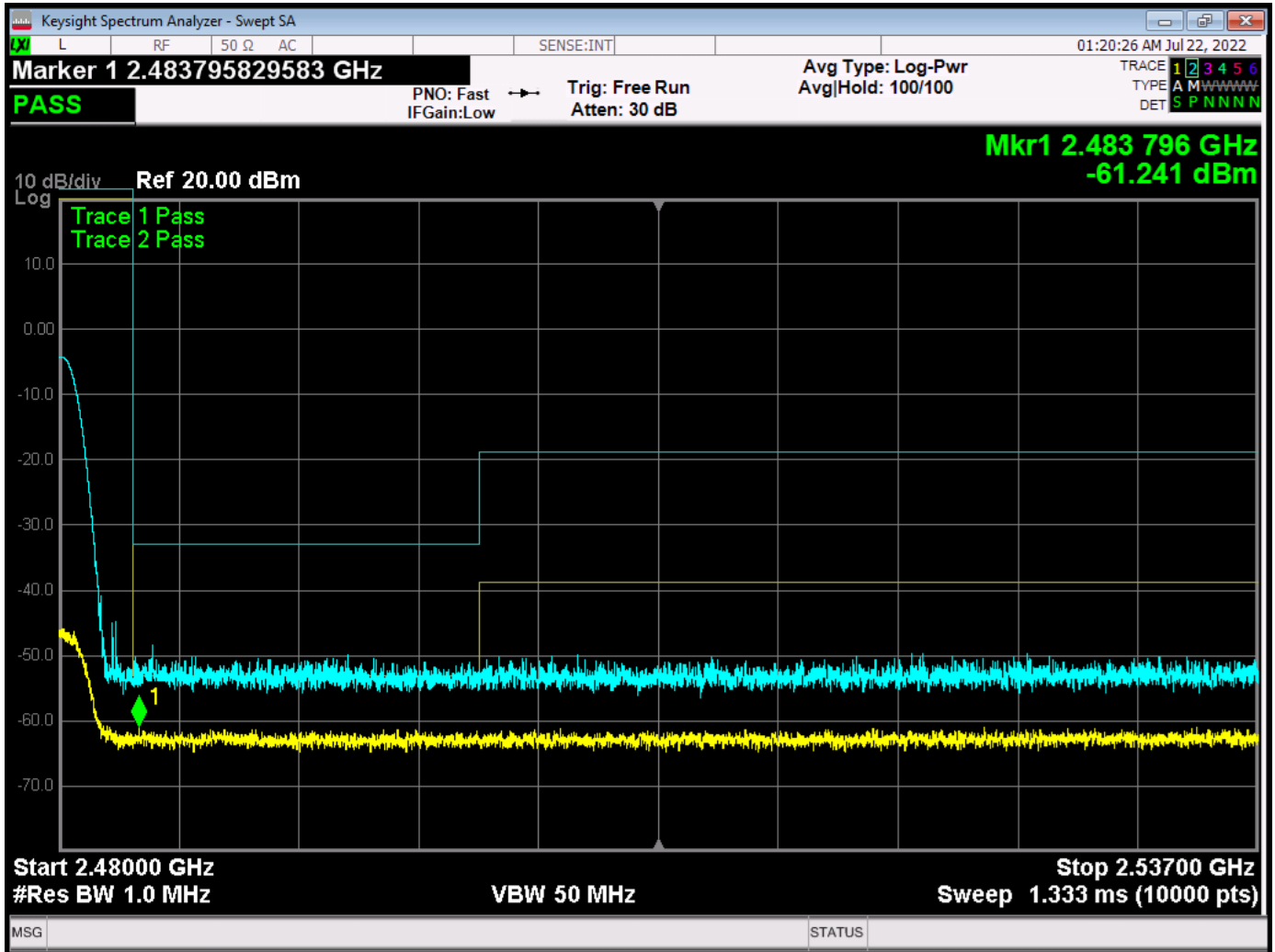


BLE Ch39



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

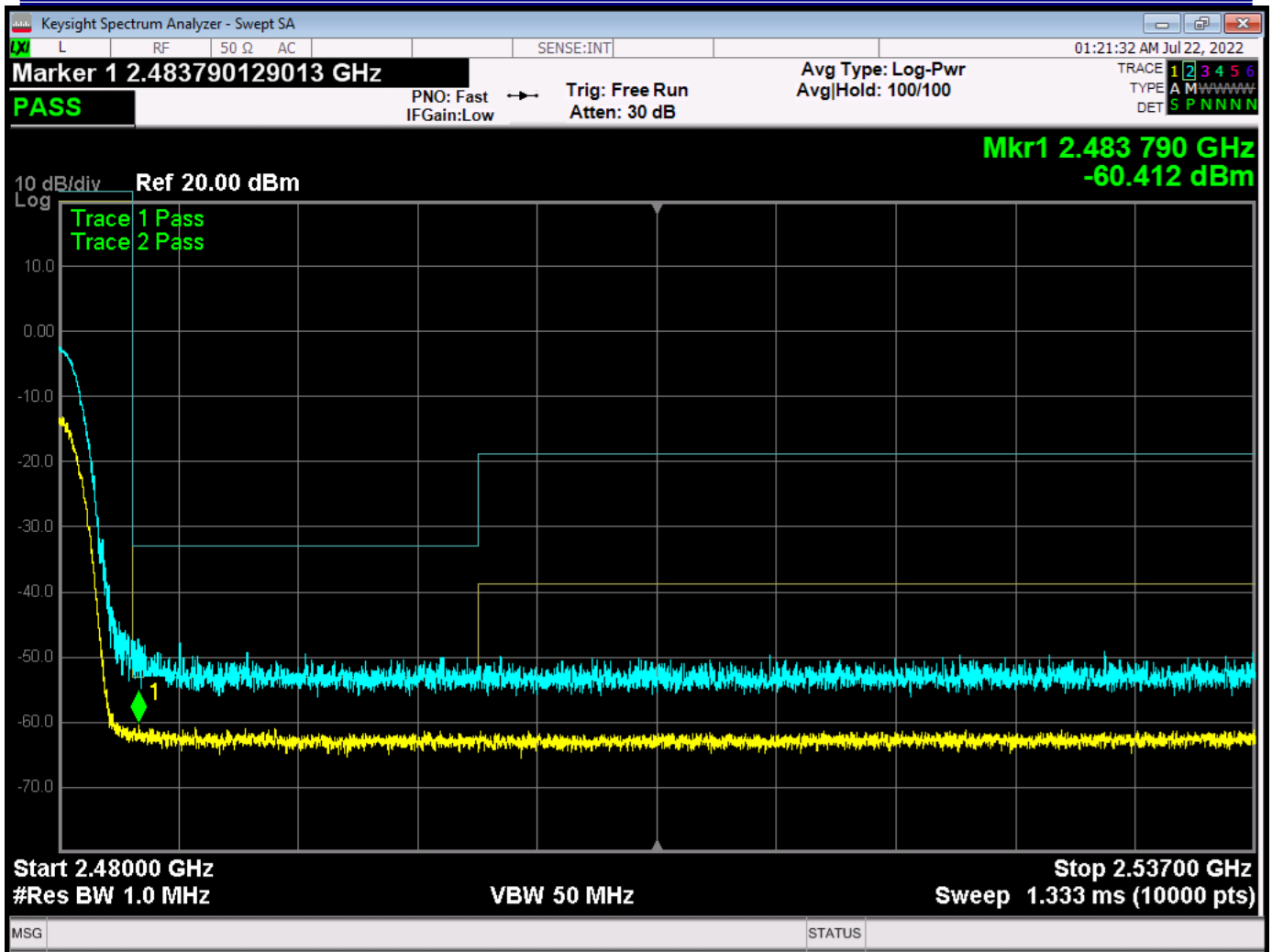


Bluetooth BDR Ch78



ELECTRO MAGNETIC TEST, INC.

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Bluetooth EDR Ch78


ELECTRO MAGNETIC TEST, INC.

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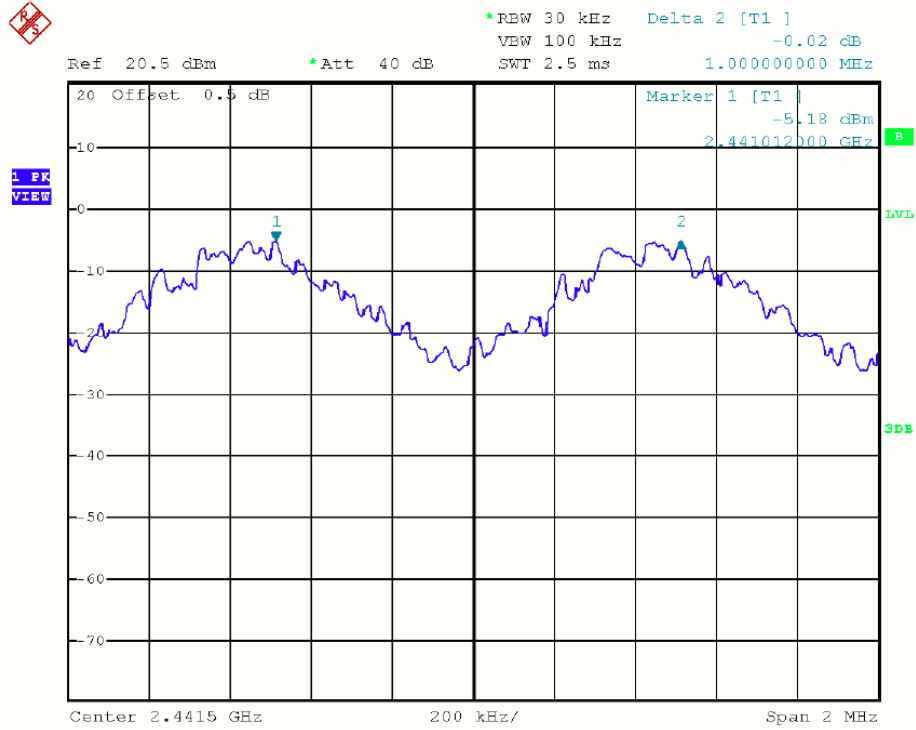
FHSS: Channel Separation Test

Company:	Aptiv Services US LLC.		Test Date	1/6/2022	
EUT Name	EP2000		Test Engineer	Andreas Davidsson	
Model:	EP2000		Test Result	PASS	
Operating Mode	TX Mode				
Mode	Test CH	Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Conclusion
Bluetooth	Low	2402	0.997	>0.444	Pass
	Adjacent	2403			
	Middle	2441	1.000	>0.432	Pass
	Adjacent	2442			
	High	2480	1.003	>0.414	Pass
	Adjacent	2479			
Test Equipment: Please refer to 5.2					



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Date: 6JAN.2022 09:56:44

Bluetooth Middle



ELECTRO MAGNETIC TEST, INC.

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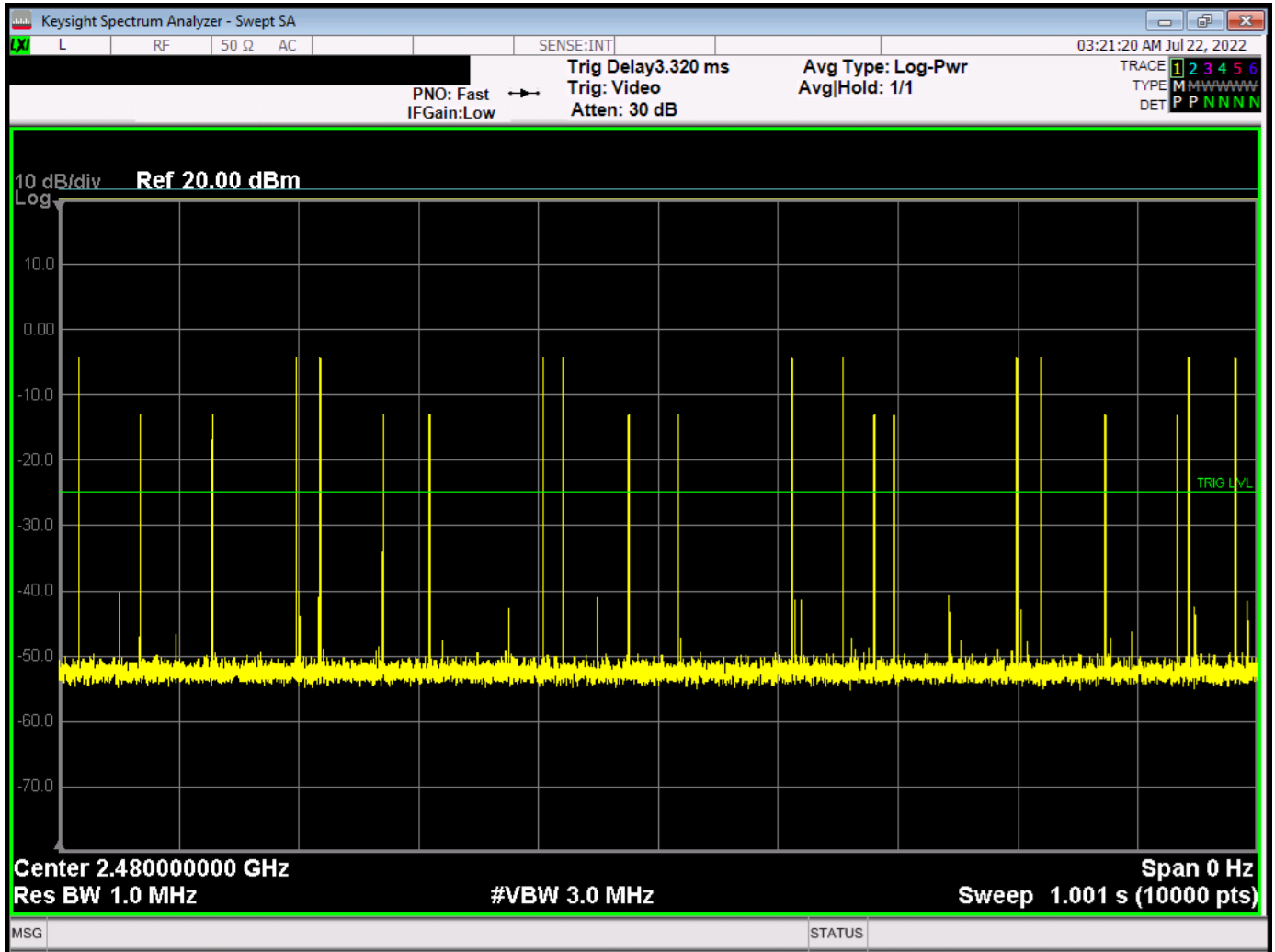
FHSS: Time of Occupancy (Dwell Time)

Company:		Aptiv Services US LLC.			Test Date		7/6/2022		
EUT Name		EP2000			Test Engineer		Andreas Davidsson		
Model:		EP2000			Test Result		PASS		
Operating Mode		TX Mode							
Mode	Total Time (S)	Pulse Width (mS)	Sweep (S)	Total Hops in Sweep	Total Hops per total time	Average Occupancy (S)	Average Occupancy Per time period (S)	Limit (S)	Conclusion
Bluetooth DH1	31.6	0.3792	1	20	632.0	0.24	0.01	<0.4	Pass
Bluetooth DH3	31.6	1.6350	1	9	284.4	0.46	0.01	<0.4	Pass
Bluetooth DH5	31.6	2.8800	1	8	252.8	0.73	0.02	<0.4	Pass
<p>Results Calculation: 8 hops in 1 second = 252.8 hops in 31.6 seconds</p> <p>Single Pulse width = 2.88 ms</p> <p>Total Occupancy Time = 2.88 x 252.8 = 0.73 sec per 31.6 sec</p> <p>Average Occupancy Time = 0.73 / 31.6 = 0.02 sec</p> <p>Limit Calculation: 0.4 sec. x 79 = 31.6 seconds.</p> <p>Test Equipment: Please refer to 5.2</p>									



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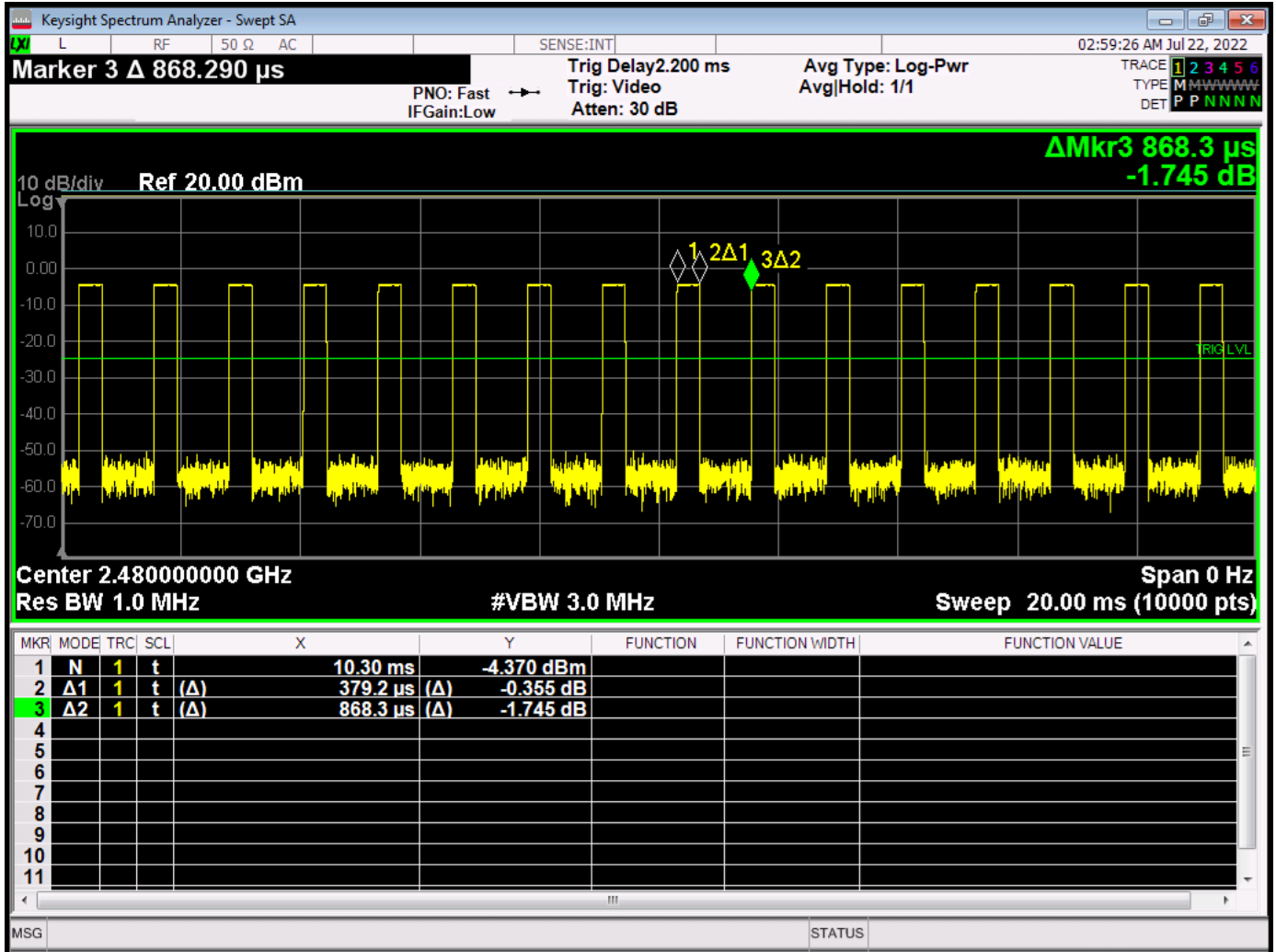


Bluetooth DH1 Hops



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1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

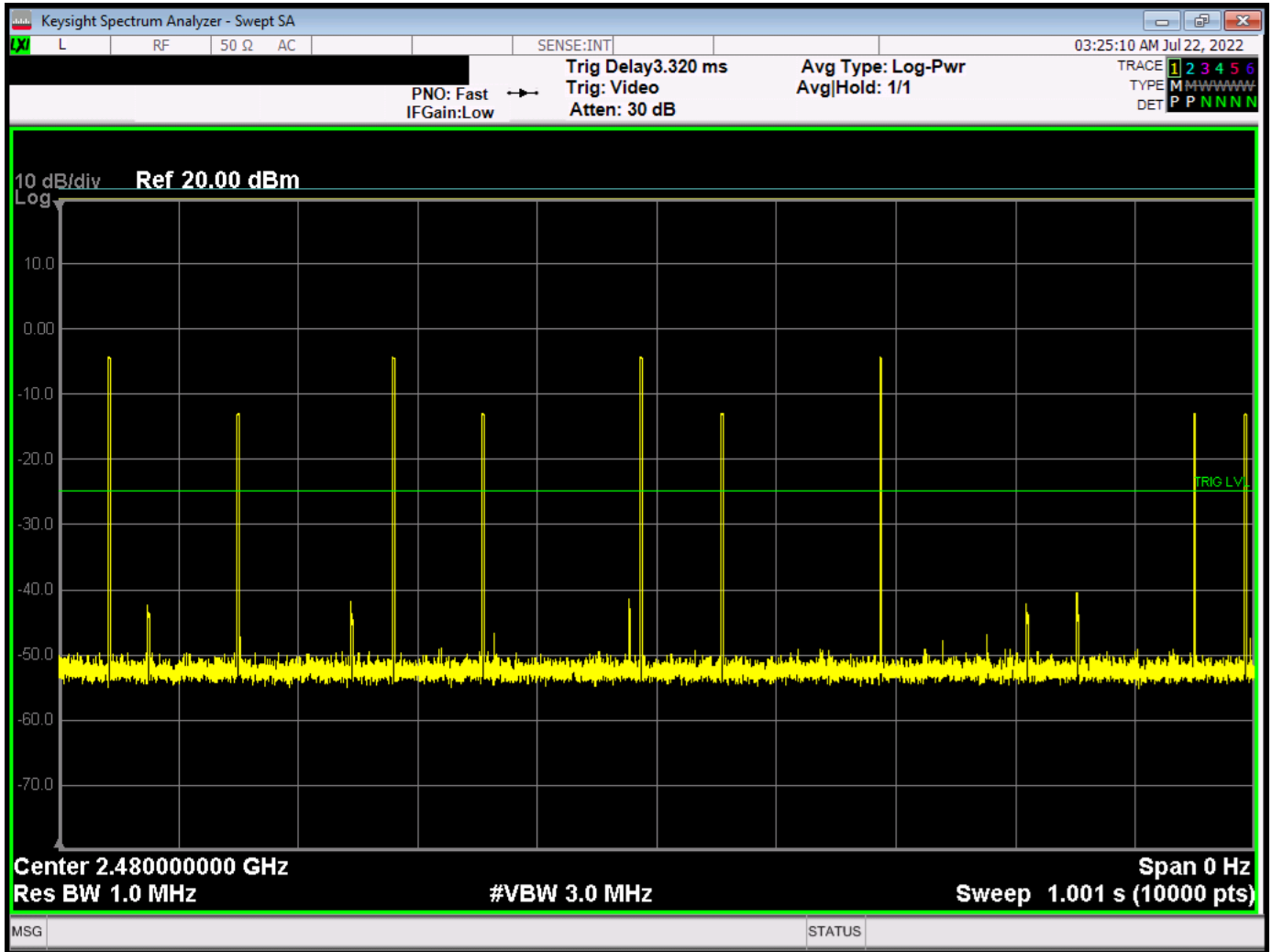


Bluetooth DH1 Pulse Width



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

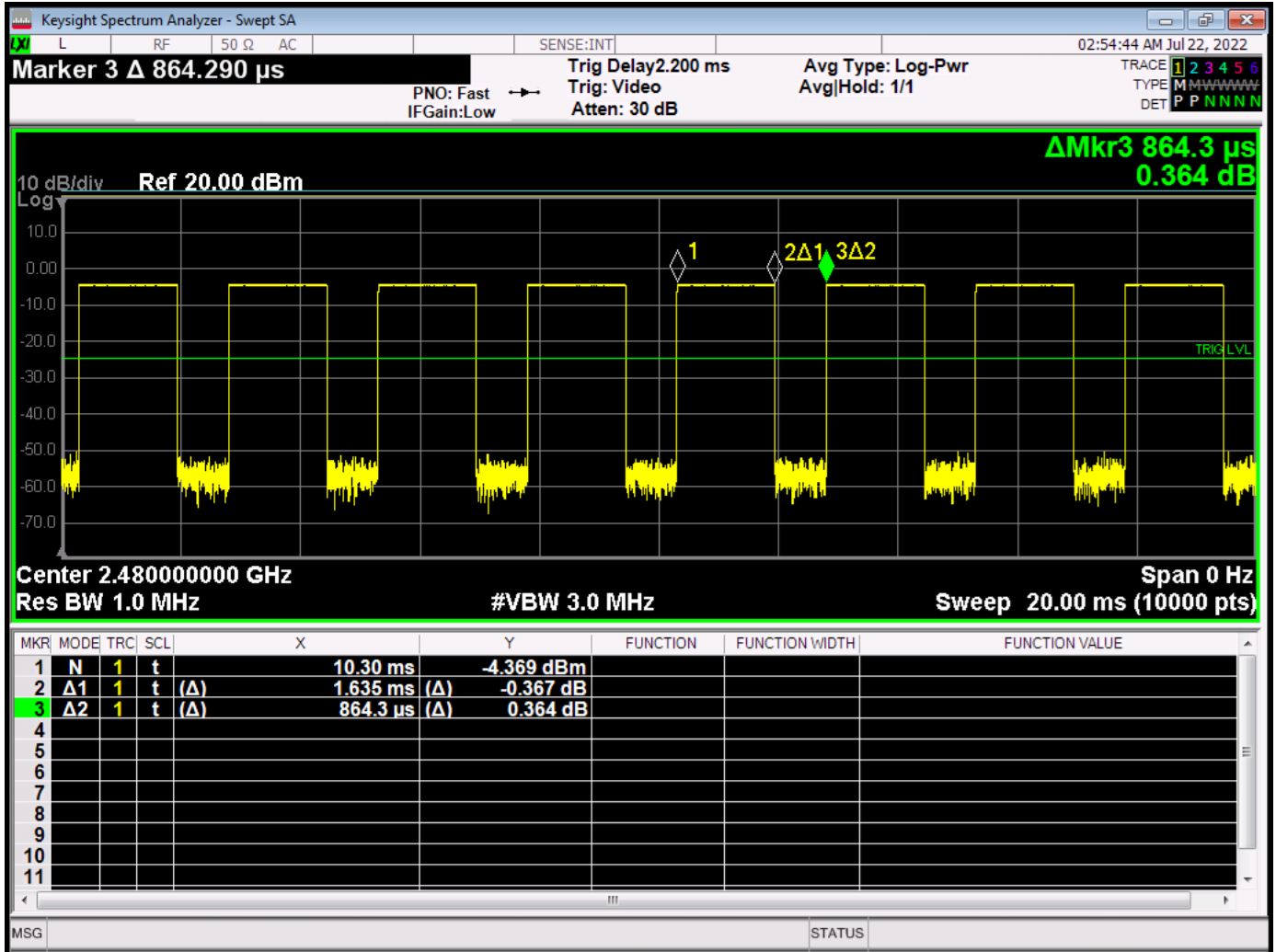


Bluetooth DH3 Hops



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

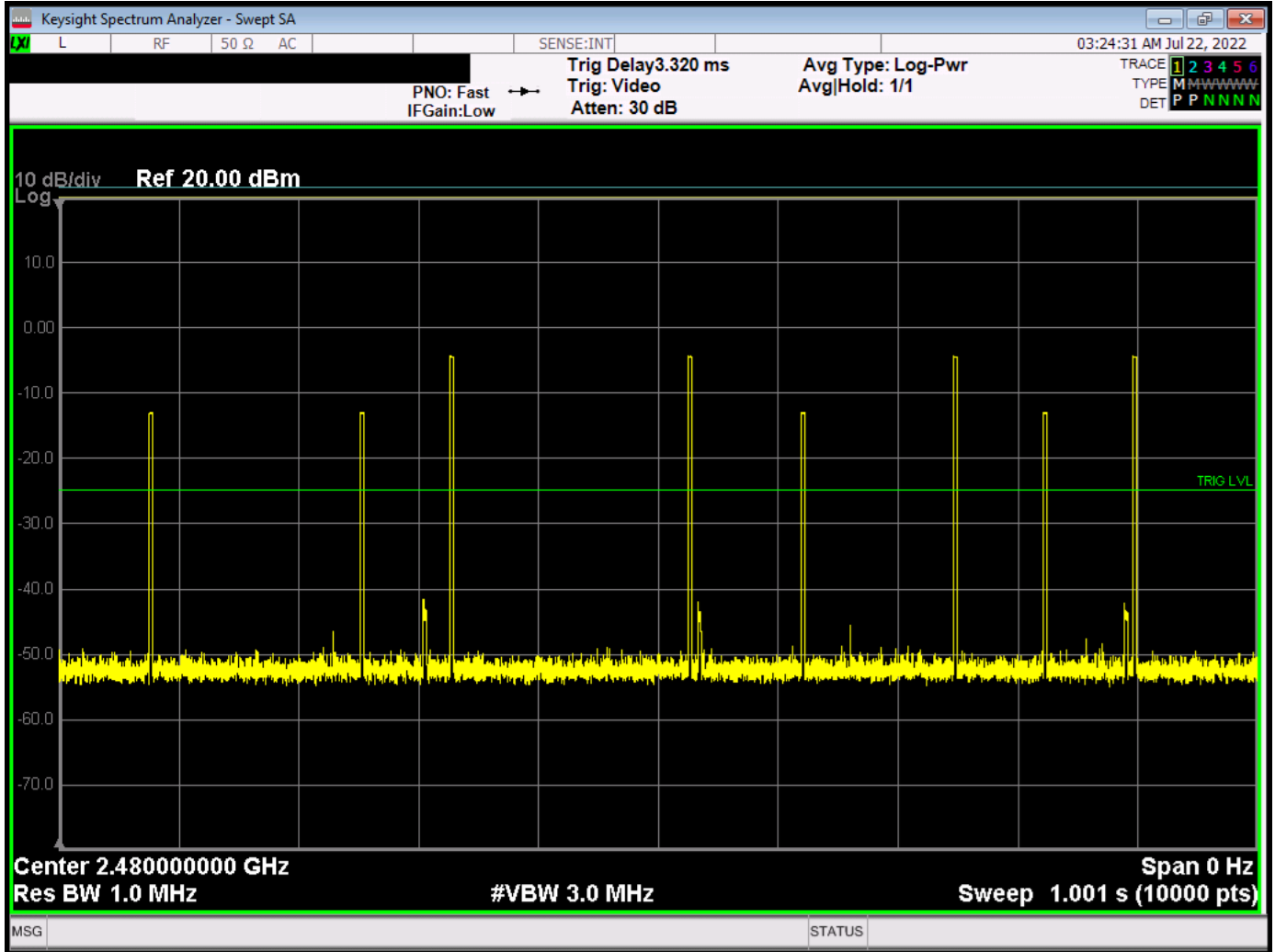


Bluetooth DH3 Pulse Width



ELECTRO MAGNETIC TEST, INC.

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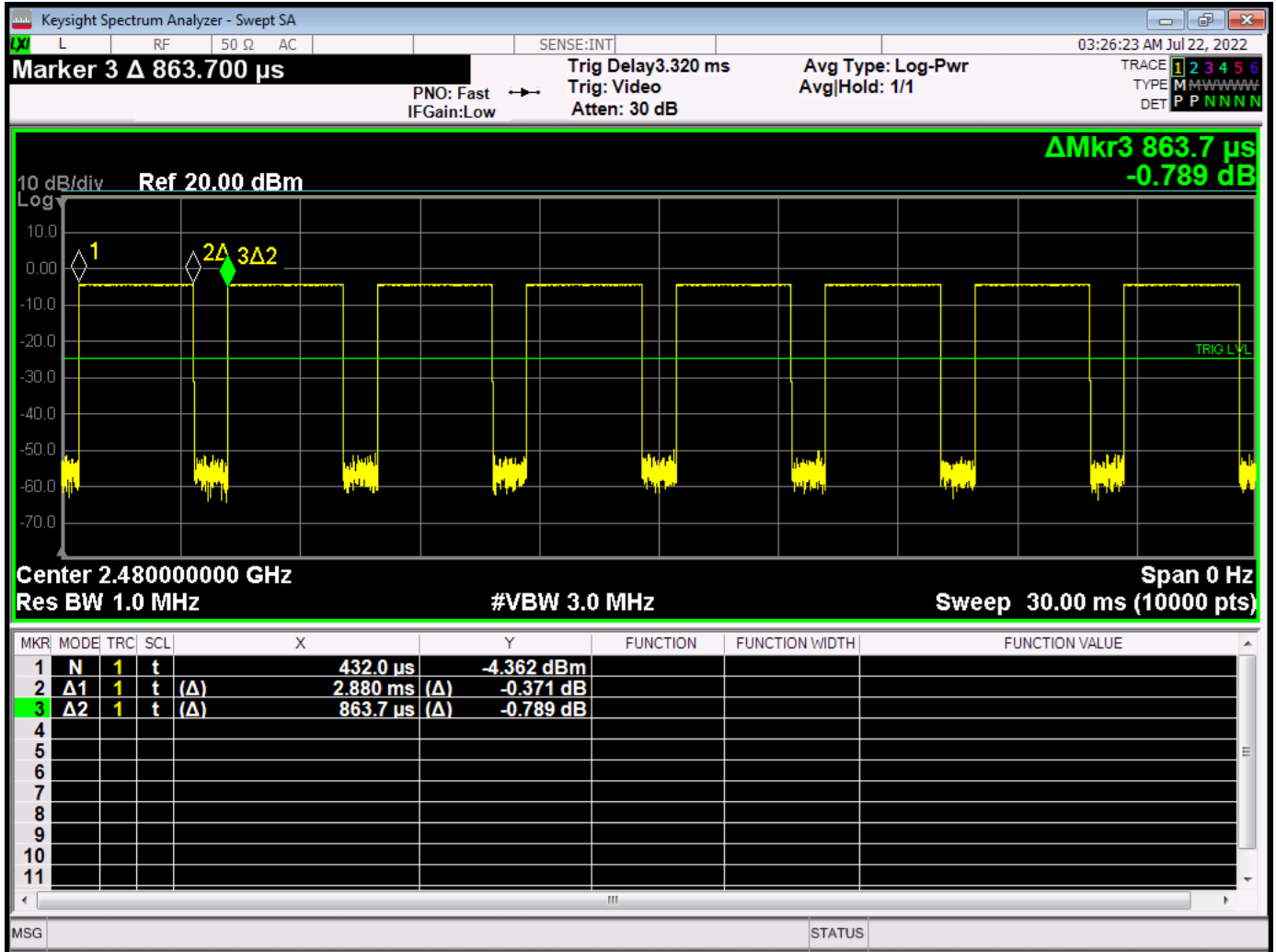


Bluetooth DH5 Hops



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Bluetooth DH5 Pulse Width


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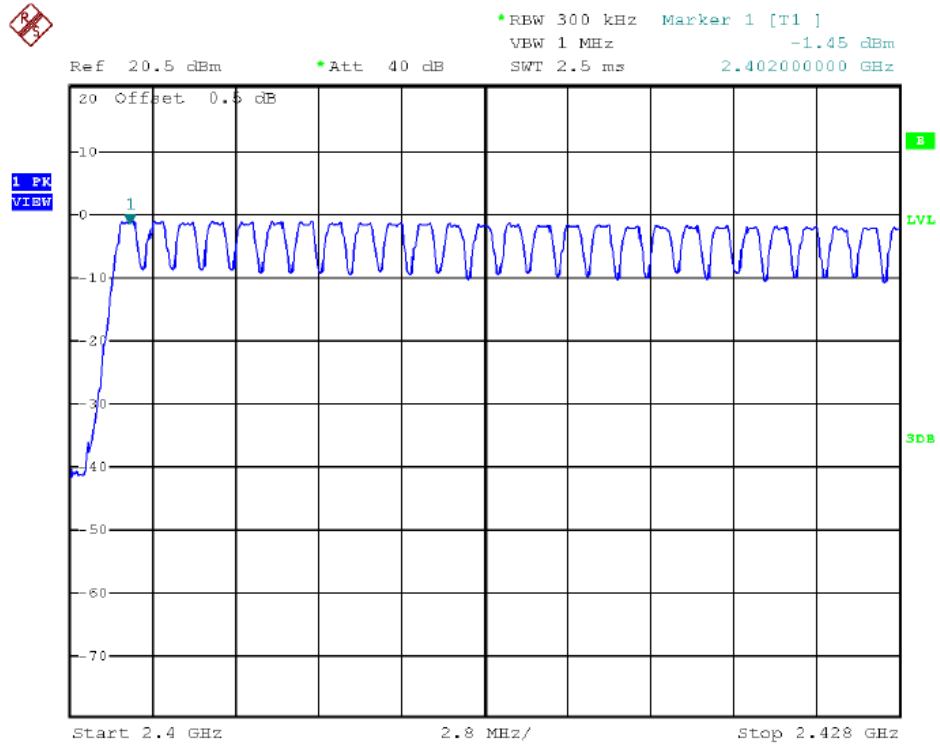
FHSS: Quantity of hopping channel Test

Company:	Aptiv Services US LLC.	Test Date	1/6/2022
EUT Name	EP2000	Test Engineer	Andreas Davidsson
Model:	EP2000	Test Result	PASS
Operating Mode	TX Mode		
Mode	Number of Hopping Channels	Requirement:	Conclusion
Bluetooth	79	At least 15 hopping channels for 2400MHz-2483.5MHz.	Pass
Test Equipment: Please refer to 5.2			



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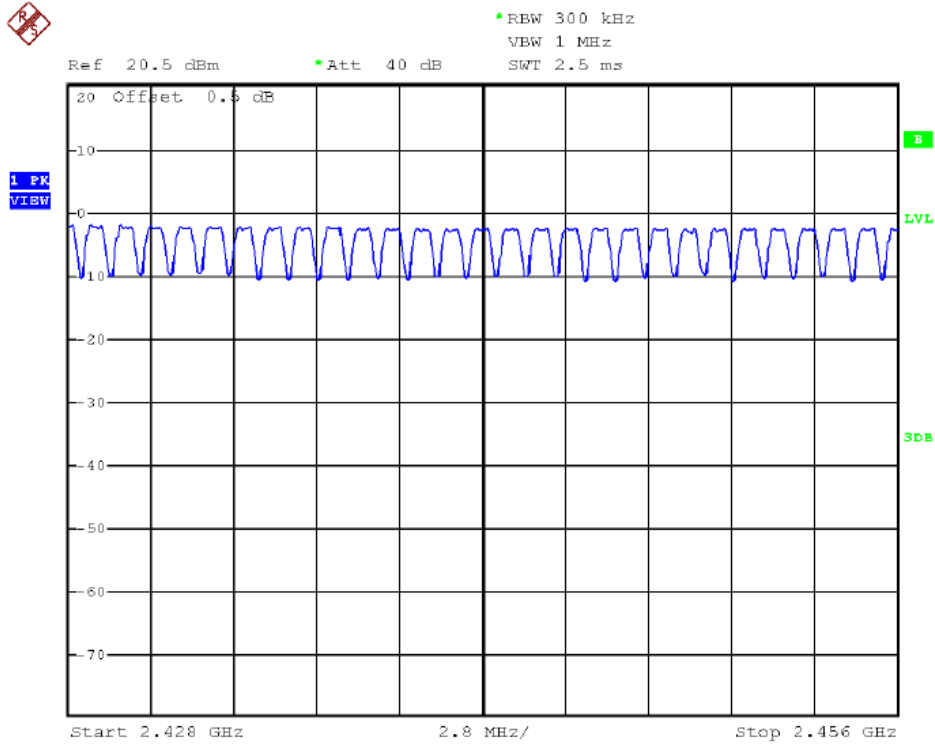
Date: 6.JAN.2022 09:43:35

Bluetooth Low Channels



ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000



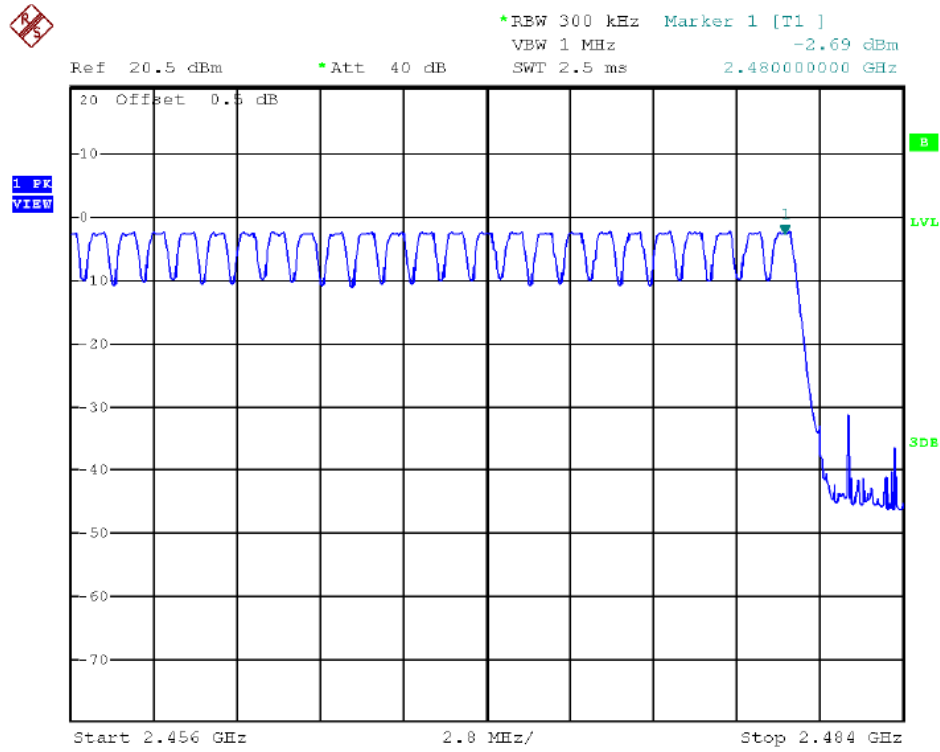
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Bluetooth Middle Channels



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1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000



Date: 6.JAN.2022 09:46:08

Bluetooth High Channels



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APPENDIX B

TEST SETUP DIAGRAMS



ELECTRO MAGNETIC TEST, INC.

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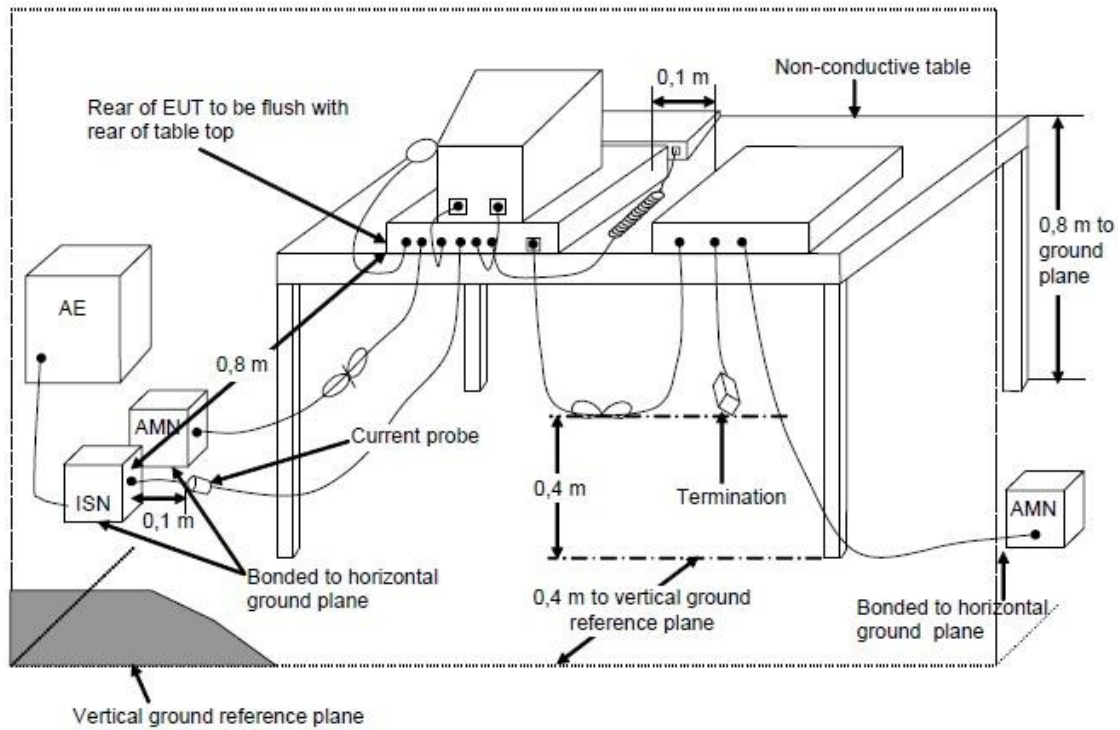


FIGURE 1 – TABLETOP CONDUCTED EMISSIONS TEST SETUP – SITE “D”

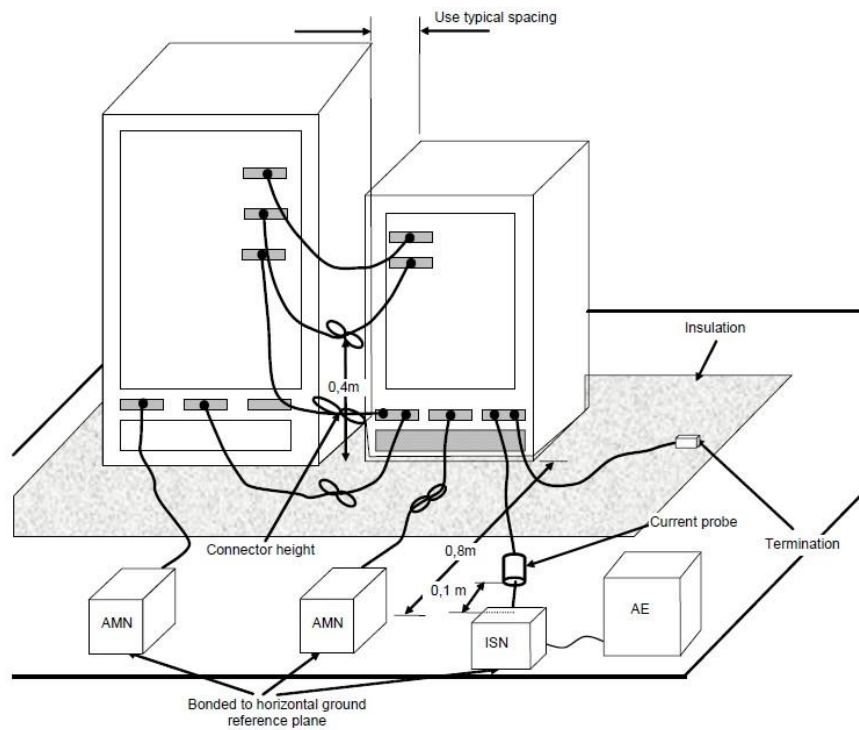


FIGURE 1a – FLOORSTANDING CONDUCTED EMISSIONS TEST SETUP – SITE “D”



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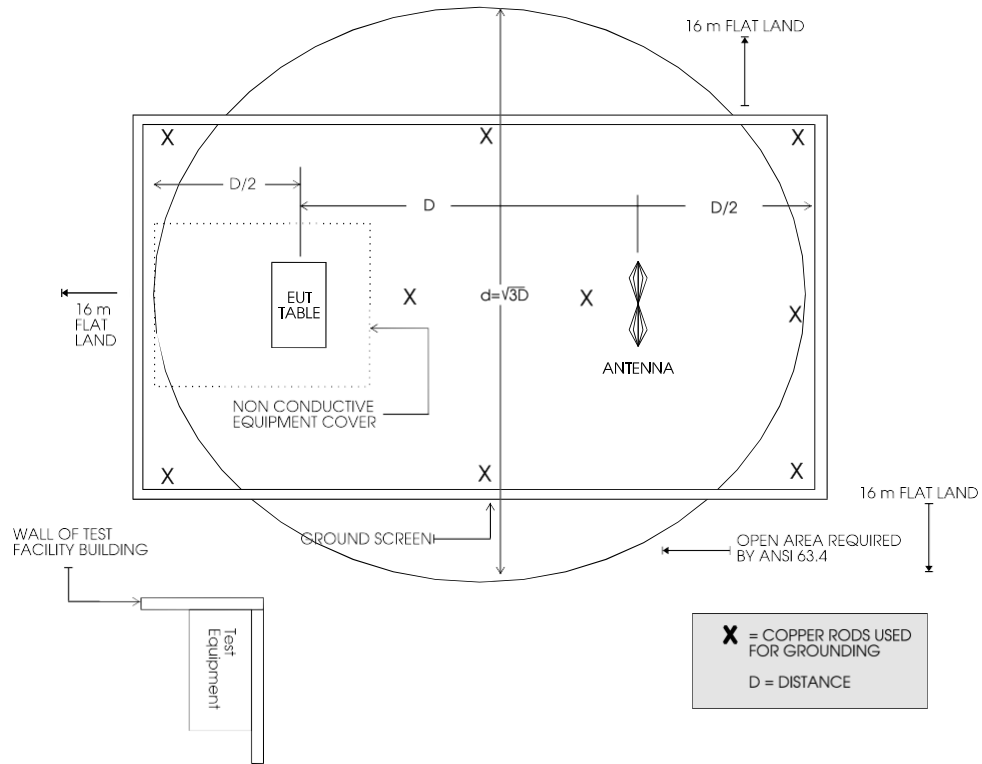


FIGURE 2 - PLOT MAP AND LAYOUT OF TEST SITE "A"

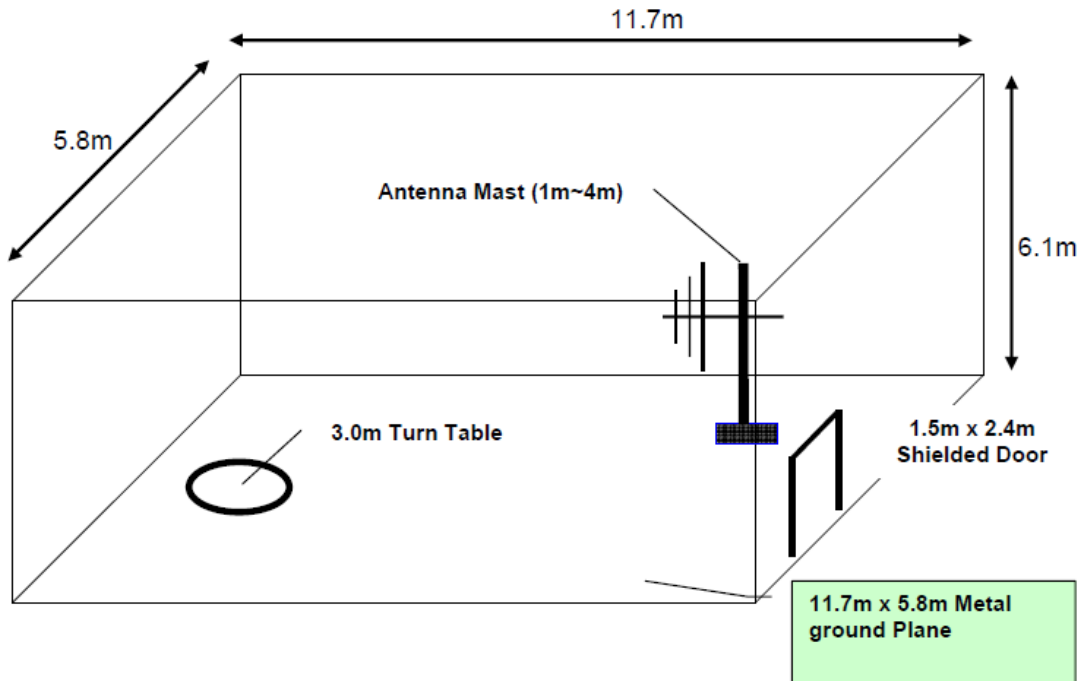


FIGURE 3 - LAYOUT OF 5 METER SEMI-ANECHOIC CHAMBER



ELECTRO MAGNETIC TEST, INC.

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APPENDIX C

MODIFICATIONS TO THE EUT



ELECTRO MAGNETIC TEST, INC.

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MODIFICATIONS TO THE EUT

No modifications were made to the EUT by Electro Magnetic Test, Inc. personnel during the testing.



ELECTRO MAGNETIC TEST, INC.

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APPENDIX D

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***



ELECTRO MAGNETIC TEST, INC.

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ADDITIONAL MODELS COVERED UNDER THIS REPORT

There are no additional models to be covered under this report.



ELECTRO MAGNETIC TEST, INC.

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End of Report

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