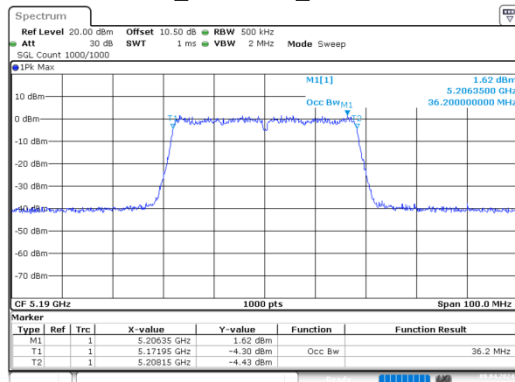
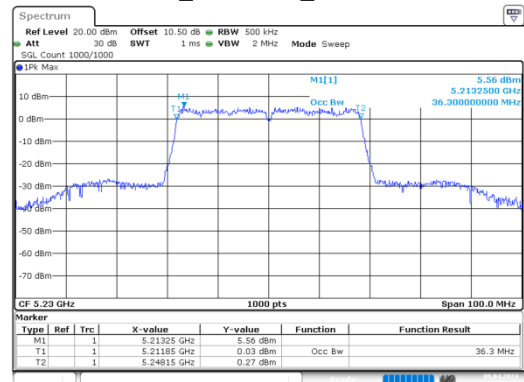


n40_5190MHz_Chain 0



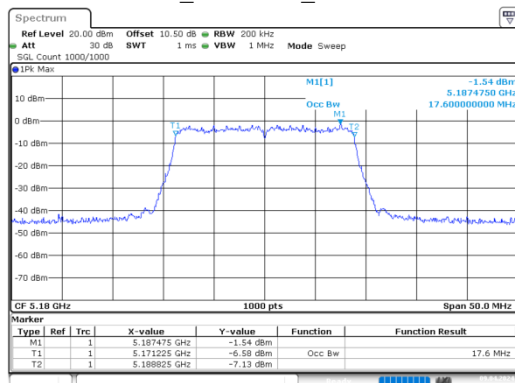
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 14:39:36

n40_5230MHz_Chain 0



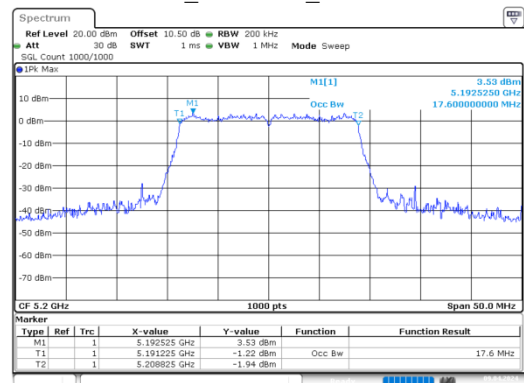
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 14:40:17

ac20_5180MHz_Chain 0



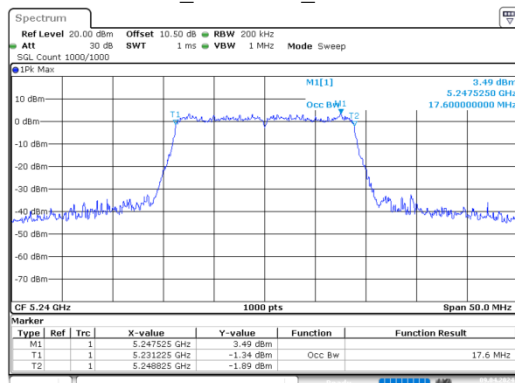
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Date: 9.APR.2024 14:41:13

ac20_5200MHz_Chain 0



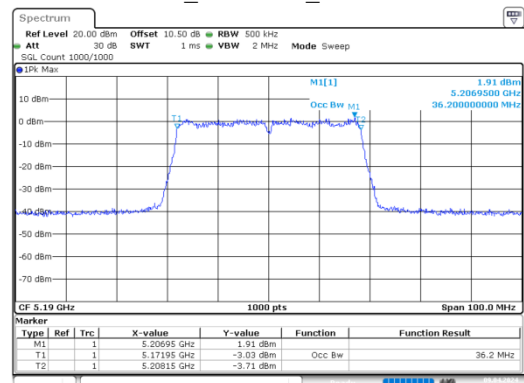
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Date: 9.APR.2024 14:42:27

ac20_5240MHz_Chain 0



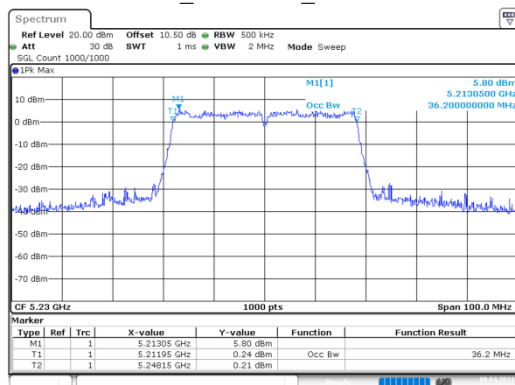
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 14:43:37

ac40_5190MHz_Chain 0



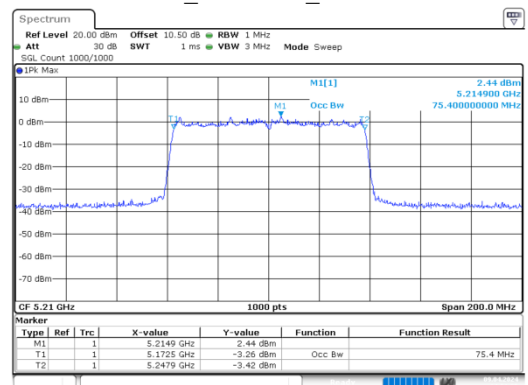
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Date: 9.APR.2024 14:44:38

ac40_5230MHz_Chain 0



ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 14:45:33

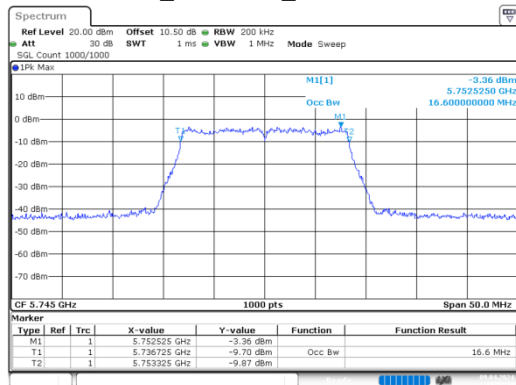
ac80_5210MHz_Chain 0



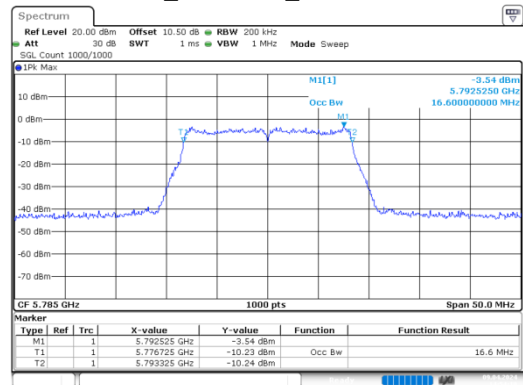
ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 14:51:56

5725-5850 MHz:

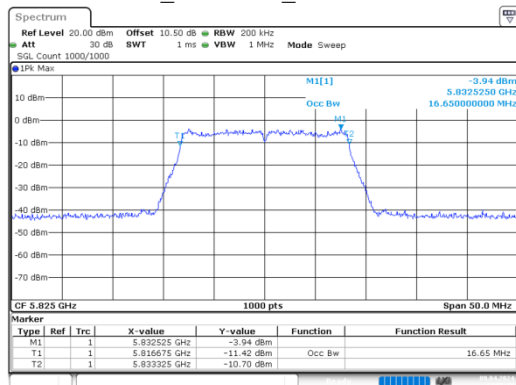
a_5745MHz_Chain 0



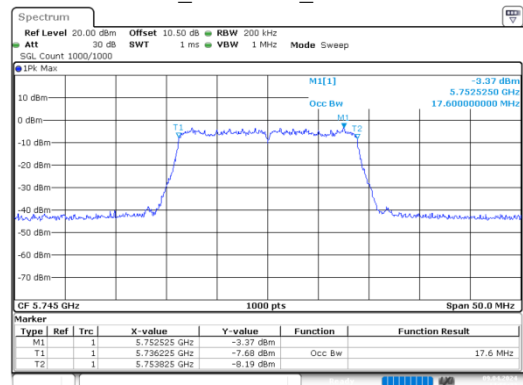
a_5785MHz_Chain 0



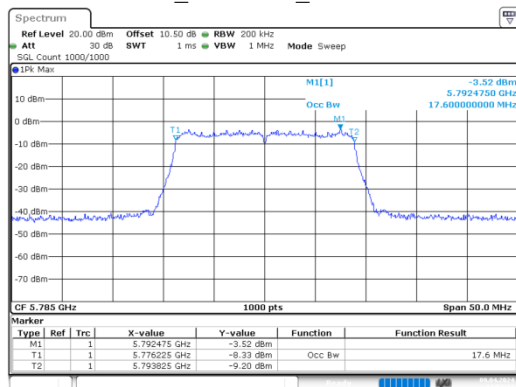
a_5825MHz_Chain 0



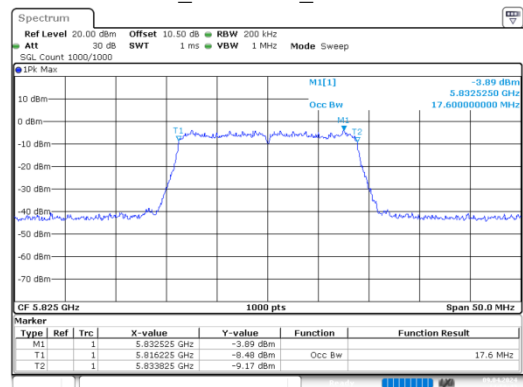
n20_5745MHz_Chain 0



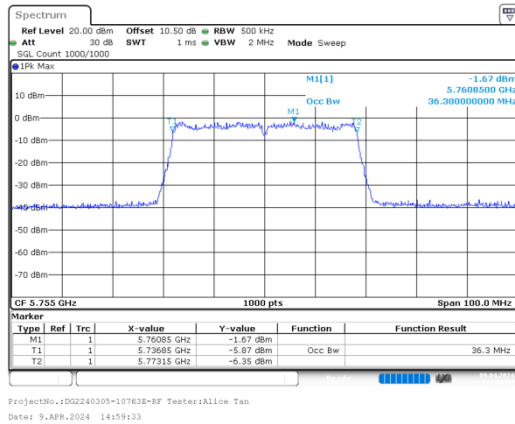
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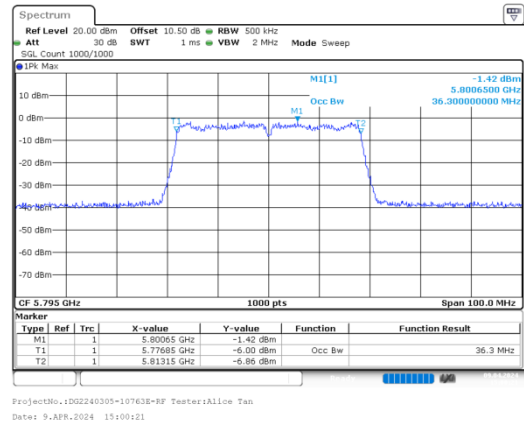
n20_5825MHz_Chain 0



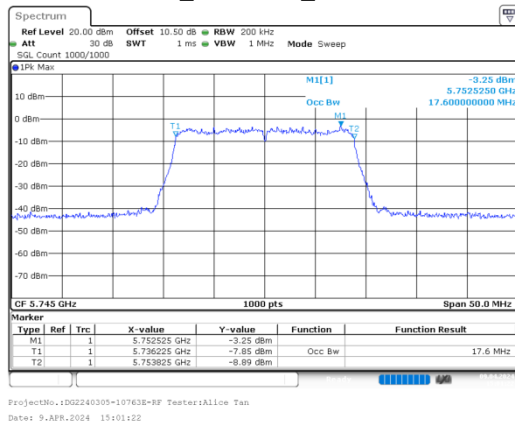
n40_5755MHz_Chain 0



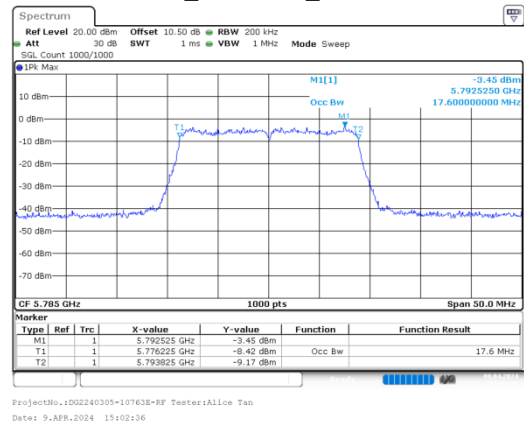
n40_5795MHz_Chain 0



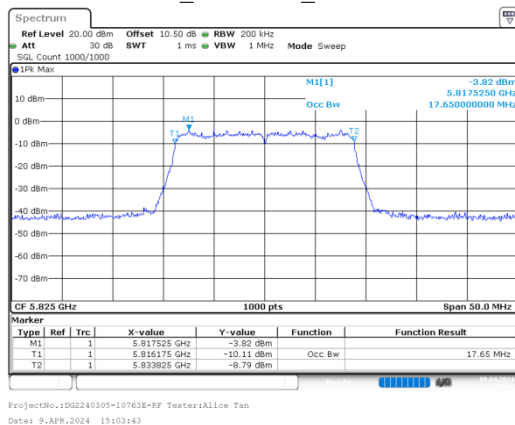
ac20_5745MHz_Chain 0



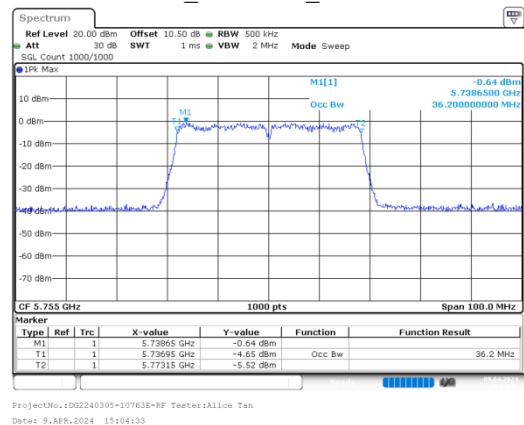
ac20_5785MHz_Chain 0



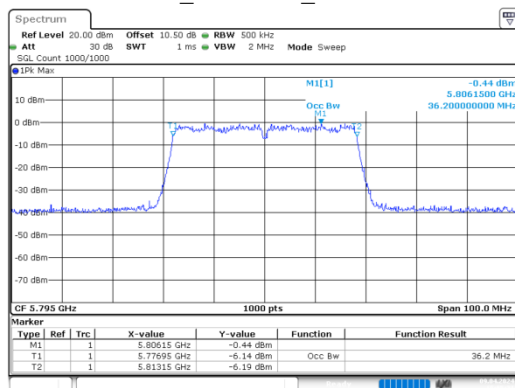
ac20_5825MHz_Chain 0



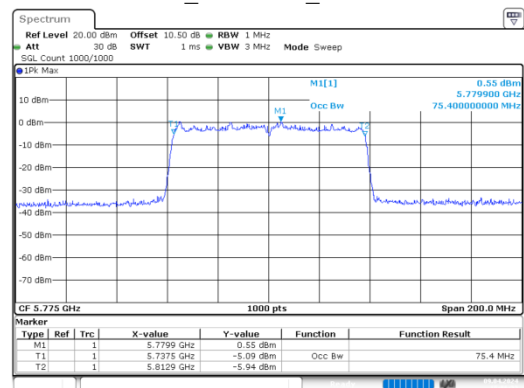
ac40_5755MHz_Chain 0



ac40_5795MHz_Chain 0



ac80_5775MHz_Chain 0



5.5 Maximum Conducted Output Power

Serial No.:	2IAQ-2	Test Date:	2024/04/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Alice Tan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	44	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2022XA	MY54170006	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM488	2023/09/10	2024/09/09

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:**5150-5250 MHz:**

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)			
		Chain 0	Chain 1	Result	Limit
802.11a	5180	7.62	9.12	/	24.83
	5200	13.78	15.39	/	24.83
	5240	13.68	15.28	/	24.83
802.11n ht20	5180	8.56	9.36	11.99	24.83
	5200	14.72	15.42	18.09	24.83
	5240	14.57	15.27	17.94	24.83
802.11n ht40	5190	10.28	11.09	13.71	24.83
	5230	14.32	15.07	17.72	24.83
802.11ac vht20	5180	9.85	10.61	13.26	24.83
	5200	14.96	15.67	18.34	24.83
	5240	14.77	15.52	18.17	24.83
802.11ac vht40	5190	10.53	11.14	13.86	24.83
	5230	14.54	15.16	17.87	24.83
802.11ac vht80	5210	9.8	10.33	13.08	24.83

Note:

The device is an outdoor AP.

Limit:30-(11.17-6)=24.83dBm.

The maximum antenna gain at any elevation angle above 30 degrees as measured from the horizon is 0dBi, EIRP=18.34dBm<21dBm(0.125W), Please refer to the antenna report for the antenna gain detail.

5725-5850 MHz

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)			
		Chain 0	Chain 1	Result	Limit
802.11a	5745	8.85	9.04	/	24.51
	5785	8.48	8.94	/	24.51
	5825	7.88	8.73	/	24.51
802.11n ht20	5745	8.71	8.92	11.83	24.51
	5785	8.56	8.82	11.70	24.51
	5825	7.94	8.58	11.28	24.51
802.11n ht40	5755	8.38	8.63	11.52	24.51
	5795	8.07	8.57	11.34	24.51
802.11ac vht20	5745	8.69	8.86	11.79	24.51
	5785	8.45	8.74	11.61	24.51
	5825	7.96	8.56	11.28	24.51
802.11ac vht40	5755	9.44	9.55	12.51	24.51
	5795	9.13	9.48	12.32	24.51
802.11ac vht80	5775	8.63	8.88	11.77	24.51
Note: Limit:30-(11.49-6)=24.51dBm.					

5.6 Maximum power spectral density

Serial No.:	2IAQ-2	Test Date:	2024/04/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Alice Tan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	44	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM488	2023/09/10	2024/09/09

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:**5150-5250 MHz**

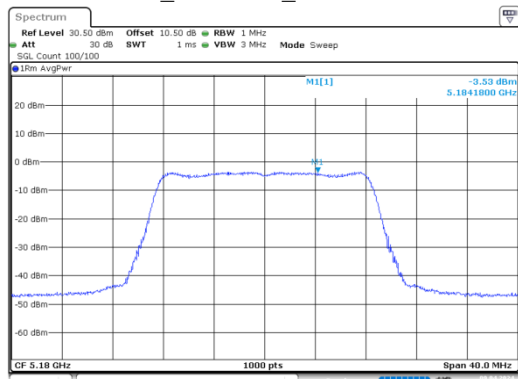
Mode	Value (dBm/MHz)	Duty Cycle Factor (dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
a_5180MHz_Chain 0	-3.53	/	-3.53	11.83	Pass
a_5180MHz_Chain 1	-2.67	/	-2.67	11.83	Pass
a_5200MHz_Chain 0	2.78	/	2.78	11.83	Pass
a_5200MHz_Chain 1	3.15	/	3.15	11.83	Pass
a_5240MHz_Chain 0	2.69	/	2.69	11.83	Pass
a_5240MHz_Chain 1	3.23	/	3.23	11.83	Pass
n20_5180MHz_Chain 0	-3.67	/	-3.67	11.83	Pass
n20_5180MHz_Chain 1	-3.27	/	-3.27	11.83	Pass
n20_5180MHz_Chain 0+Chain 1	-0.46	/	-0.46	8.83	Pass
n20_5200MHz_Chain 0	2.66	/	2.66	11.83	Pass
n20_5200MHz_Chain 1	2.90	/	2.90	11.83	Pass
n20_5200MHz_Chain 0+Chain 1	5.79	/	5.79	8.83	Pass
n20_5240MHz_Chain 0	2.71	/	2.71	11.83	Pass
n20_5240MHz_Chain 1	2.67	/	2.67	11.83	Pass
n20_5240MHz_Chain 0+Chain 1	5.70	/	5.70	8.83	Pass
n40_5190MHz_Chain 0	-4.69	/	-4.69	11.83	Pass
n40_5190MHz_Chain 1	-4.34	/	-4.34	11.83	Pass
n40_5190MHz_Chain 0+Chain 1	-1.50	/	-1.50	8.83	Pass
n40_5230MHz_Chain 0	-0.54	/	-0.54	11.83	Pass
n40_5230MHz_Chain 1	-0.03	/	-0.03	11.83	Pass
n40_5230MHz_Chain 0+Chain 1	2.73	/	2.73	8.83	Pass
ac20_5180MHz_Chain 0	-2.58	/	-2.58	11.83	Pass
ac20_5180MHz_Chain 1	-2.30	/	-2.30	11.83	Pass
ac20_5180MHz_Chain 0+Chain 1	0.57	/	0.57	8.83	Pass
ac20_5200MHz_Chain 0	2.75	/	2.75	11.83	Pass
ac20_5200MHz_Chain 1	2.73	/	2.73	11.83	Pass
ac20_5200MHz_Chain 0+Chain 1	5.75	/	5.75	8.83	Pass
ac20_5240MHz_Chain 0	2.57	/	2.57	11.83	Pass
ac20_5240MHz_Chain 1	2.50	/	2.50	11.83	Pass
ac20_5240MHz_Chain 0+Chain 1	5.55	/	5.55	8.83	Pass
ac40_5190MHz_Chain 0	-4.56	/	-4.56	11.83	Pass
ac40_5190MHz_Chain 1	-4.42	/	-4.42	11.83	Pass
ac40_5190MHz_Chain 0+Chain 1	-1.48	/	-1.48	8.83	Pass
ac40_5230MHz_Chain 0	-0.47	/	-0.47	11.83	Pass
ac40_5230MHz_Chain 1	-0.34	/	-0.34	11.83	Pass
ac40_5230MHz_Chain 0+Chain 1	2.61	/	2.61	8.83	Pass
ac80_5210MHz_Chain 0	-8.16	0.13	-8.03	11.83	Pass
ac80_5210MHz_Chain 1	-7.99	0.13	-7.86	11.83	Pass
ac80_5210MHz_Chain 0+Chain 1	-5.06	0.13	-4.93	8.83	Pass

5725-5850MHz:

Mode	Value (dBm/500k Hz)	Duty Cycle Factor (dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
a_5745MHz_Chain 0	-6.78	/	-6.78	24.51	Pass
a_5745MHz_Chain 1	-6.06	/	-6.06	24.51	Pass
a_5785MHz_Chain 0	-6.94	/	-6.94	24.51	Pass
a_5785MHz_Chain 1	-6.21	/	-6.21	24.51	Pass
a_5825MHz_Chain 0	-7.41	/	-7.41	24.51	Pass
a_5825MHz_Chain 1	-6.58	/	-6.58	24.51	Pass
n20_5745MHz_Chain 0	-6.94	/	-6.94	24.51	Pass
n20_5745MHz_Chain 1	-6.23	/	-6.23	24.51	Pass
n20_5745MHz_Chain 0+Chain 1	-3.56	/	-3.56	21.51	Pass
n20_5785MHz_Chain 0	-7.32	/	-7.32	24.51	Pass
n20_5785MHz_Chain 1	-6.57	/	-6.57	24.51	Pass
n20_5785MHz_Chain 0+Chain 1	-3.92	/	-3.92	21.51	Pass
n20_5825MHz_Chain 0	-7.56	/	-7.56	24.51	Pass
n20_5825MHz_Chain 1	-6.77	/	-6.77	24.51	Pass
n20_5825MHz_Chain 0+Chain 1	-4.14	/	-4.14	21.51	Pass
n40_5755MHz_Chain 0	-10.29	/	-10.29	24.51	Pass
n40_5755MHz_Chain 1	-9.61	/	-9.61	24.51	Pass
n40_5755MHz_Chain 0+Chain 1	-6.93	/	-6.93	21.51	Pass
n40_5795MHz_Chain 0	-10.22	/	-10.22	24.51	Pass
n40_5795MHz_Chain 1	-9.59	/	-9.59	24.51	Pass
n40_5795MHz_Chain 0+Chain 1	-6.88	/	-6.88	21.51	Pass
ac20_5745MHz_Chain 0	-7.08	/	-7.08	24.51	Pass
ac20_5745MHz_Chain 1	-6.34	/	-6.34	24.51	Pass
ac20_5745MHz_Chain 0+Chain 1	-3.68	/	-3.68	21.51	Pass
ac20_5785MHz_Chain 0	-7.27	/	-7.27	24.51	Pass
ac20_5785MHz_Chain 1	-6.32	/	-6.32	24.51	Pass
ac20_5785MHz_Chain 0+Chain 1	-3.76	/	-3.76	21.51	Pass
ac20_5825MHz_Chain 0	-7.78	/	-7.78	24.51	Pass
ac20_5825MHz_Chain 1	-6.80	/	-6.80	24.51	Pass
ac20_5825MHz_Chain 0+Chain 1	-4.25	/	-4.25	21.51	Pass
ac40_5755MHz_Chain 0	-9.12	/	-9.12	24.51	Pass
ac40_5755MHz_Chain 1	-8.65	/	-8.65	24.51	Pass
ac40_5755MHz_Chain 0+Chain 1	-5.87	/	-5.87	21.51	Pass
ac40_5795MHz_Chain 0	-8.90	/	-8.90	24.51	Pass
ac40_5795MHz_Chain 1	-8.57	/	-8.57	24.51	Pass
ac40_5795MHz_Chain 0+Chain 1	-5.72	/	-5.72	21.51	Pass
ac80_5775MHz_Chain 0	-12.64	0.13	-12.51	24.51	Pass
ac80_5775MHz_Chain 1	-12.23	0.13	-12.1	24.51	Pass
ac80_5775MHz_Chain 0+Chain 1	-9.42	0.13	-9.29	21.51	Pass

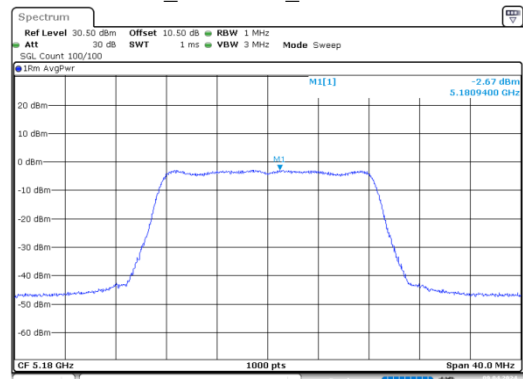
5150-5250MHz:

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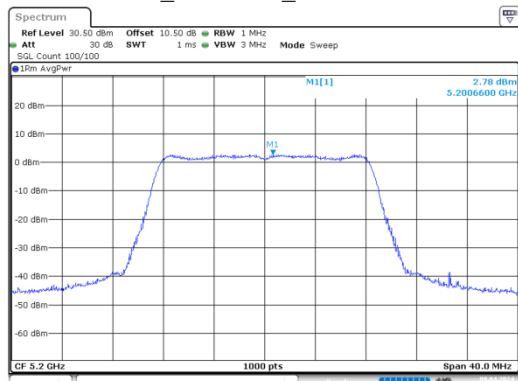
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Date: 9.APR.2024 14:33:24

a_5180MHz_Chain 1



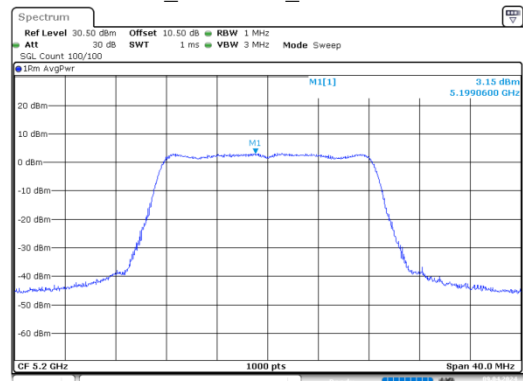
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Date: 9.APR.2024 15:16:37

a_5200MHz_Chain 0



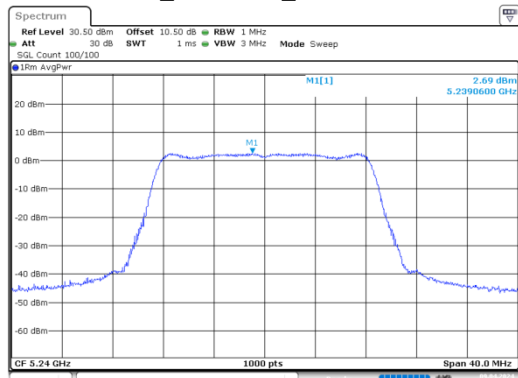
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Date: 9.APR.2024 14:34:31

a_5200MHz_Chain 1



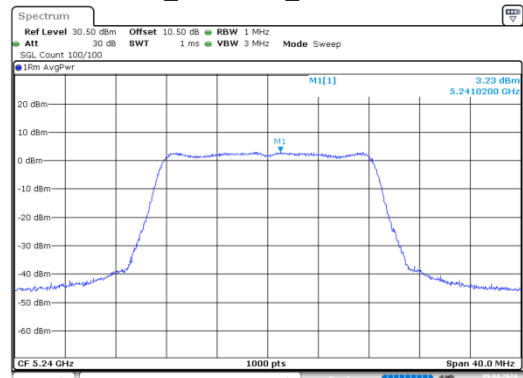
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Date: 9.APR.2024 15:17:08

a_5240MHz_Chain 0



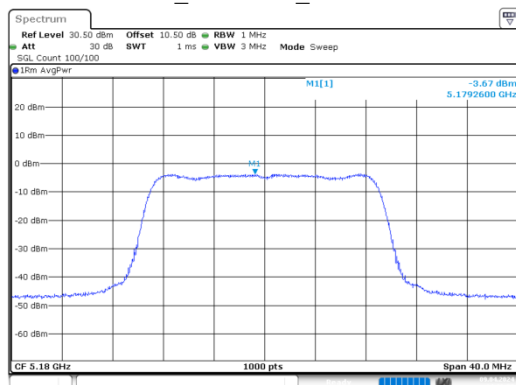
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Date: 9.APR.2024 14:35:44

a_5240MHz_Chain 1



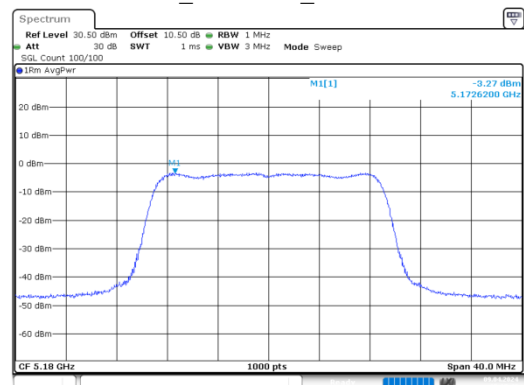
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Date: 9.APR.2024 15:17:26

n20_5180MHz_Chain 0



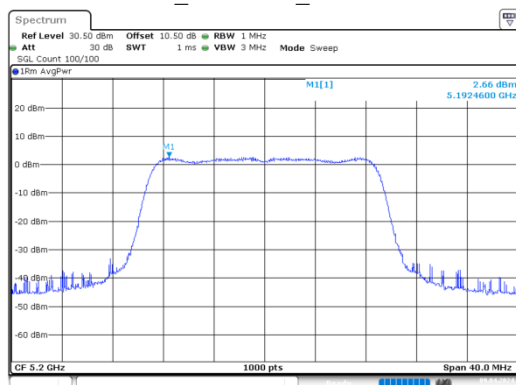
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Date: 9.APR.2024 14:36:59

n20_5180MHz_Chain 1



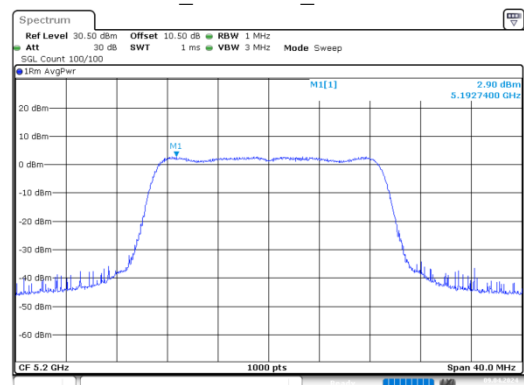
ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 15:17:43

n20_5200MHz_Chain 0



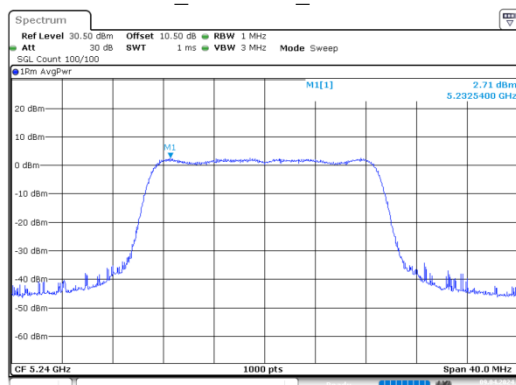
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Date: 9.APR.2024 14:36:08

n20_5200MHz_Chain 1



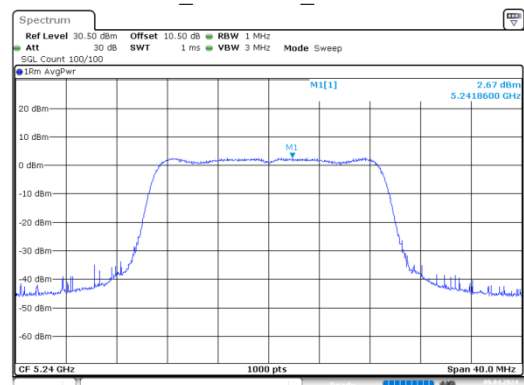
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Date: 9.APR.2024 15:18:02

n20_5240MHz_Chain 0



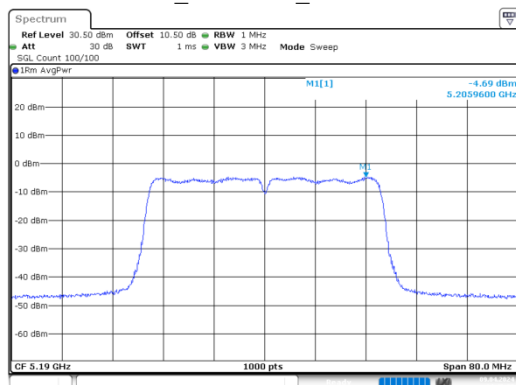
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Date: 9.APR.2024 14:39:10

n20_5240MHz_Chain 1



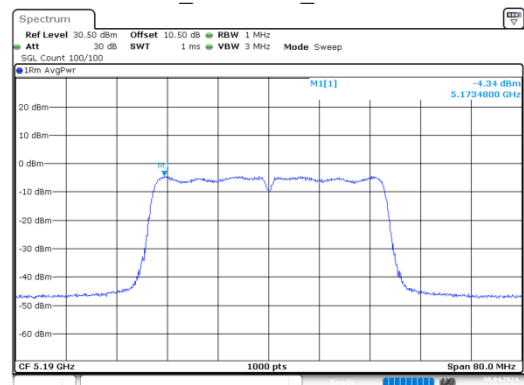
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Date: 9.APR.2024 15:18:23

n40_5190MHz_Chain 0



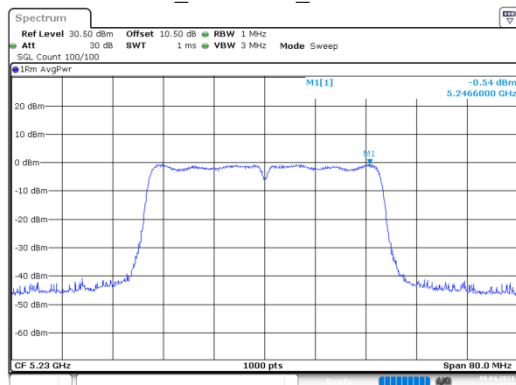
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Date: 9.APR.2024 14:40:00

n40_5190MHz_Chain 1



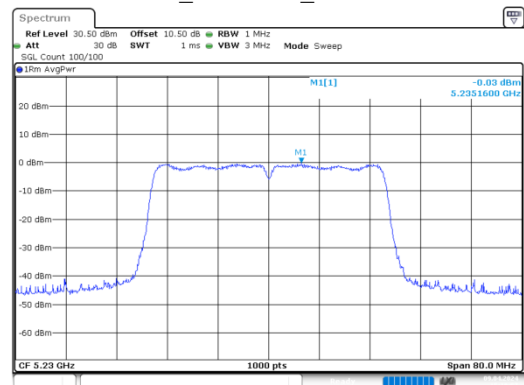
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Date: 9.APR.2024 15:18:40

n40_5230MHz_Chain 0



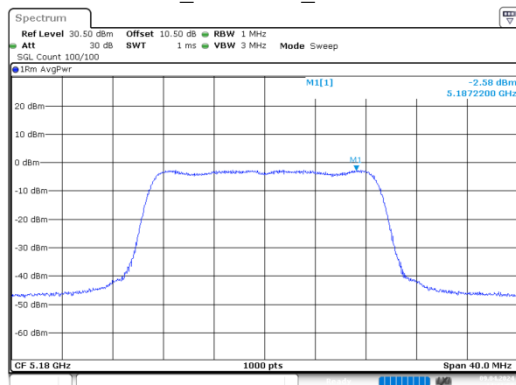
ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 14:40:42

n40_5230MHz_Chain 1



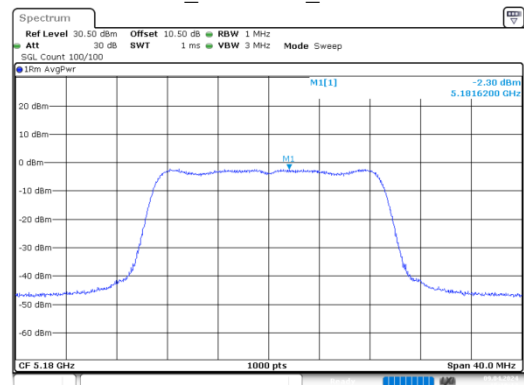
ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 15:18:58

ac20_5180MHz_Chain 0



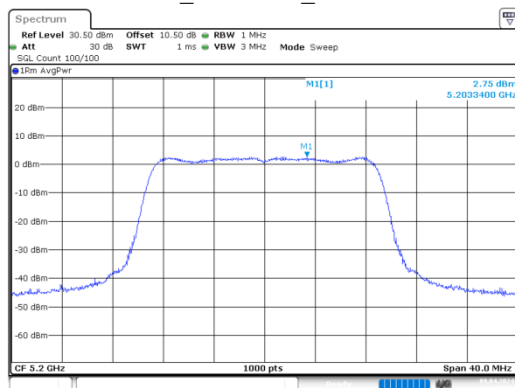
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Date: 9.APR.2024 14:42:00

ac20_5180MHz_Chain 1



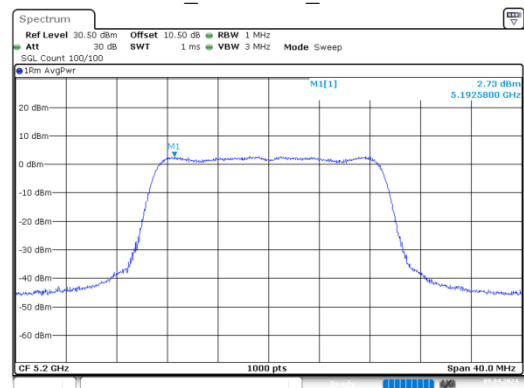
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Date: 9.APR.2024 15:19:14

ac20_5200MHz_Chain 0



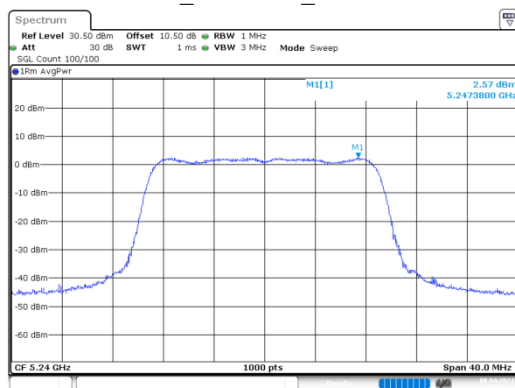
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Date: 9.APR.2024 14:43:09

ac20_5200MHz_Chain 1



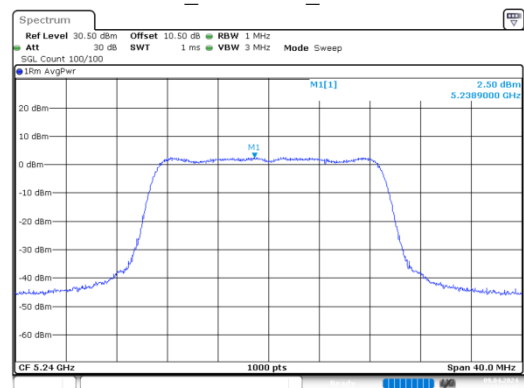
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 15:19:30

ac20_5240MHz_Chain 0



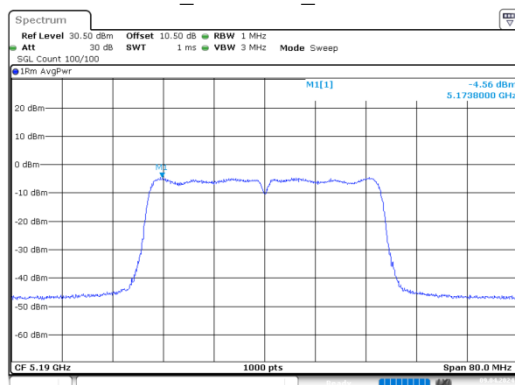
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
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ac20_5240MHz_Chain 1



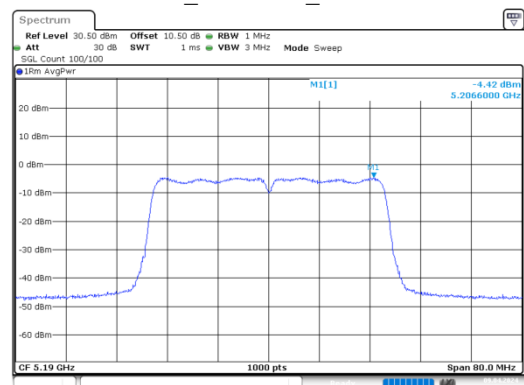
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Date: 9.APR.2024 15:19:48

ac40_5190MHz_Chain 0



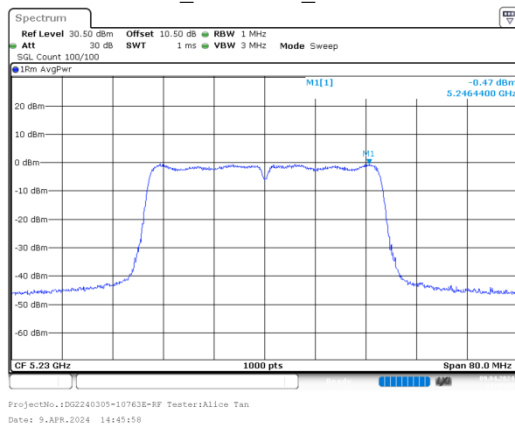
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Date: 9.APR.2024 14:45:05

ac40_5190MHz_Chain 1

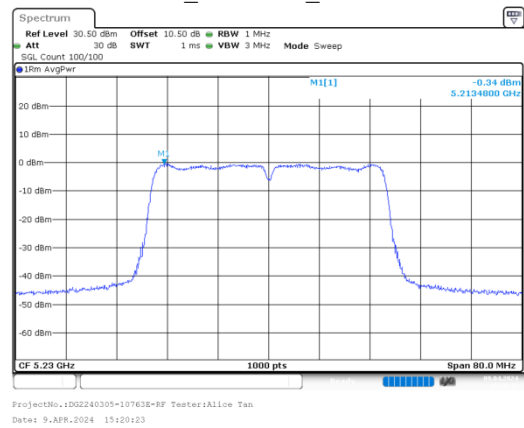


ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 15:20:04

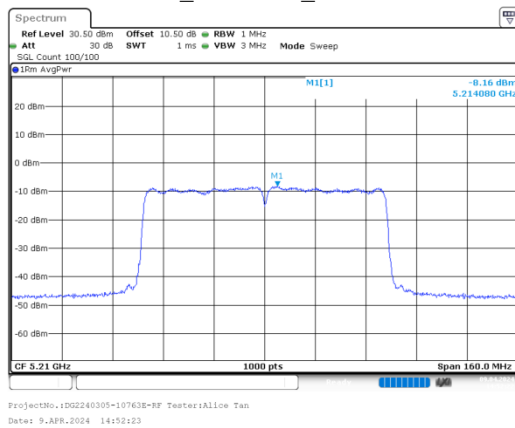
ac40_5230MHz_Chain 0



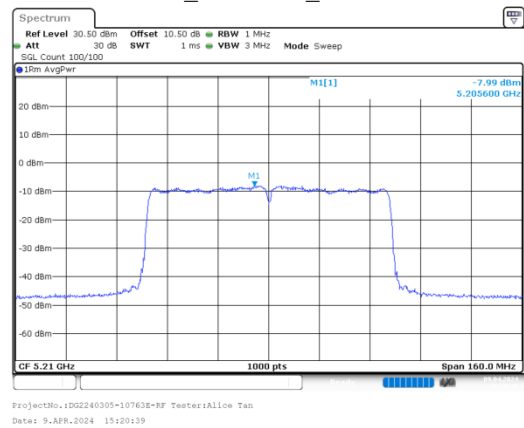
ac40_5230MHz_Chain 1



ac80_5210MHz_Chain 0

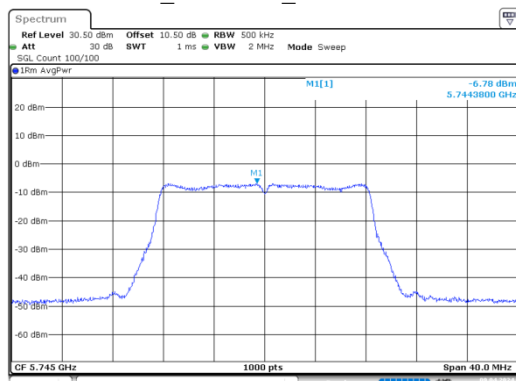


ac80_5210MHz_Chain 1



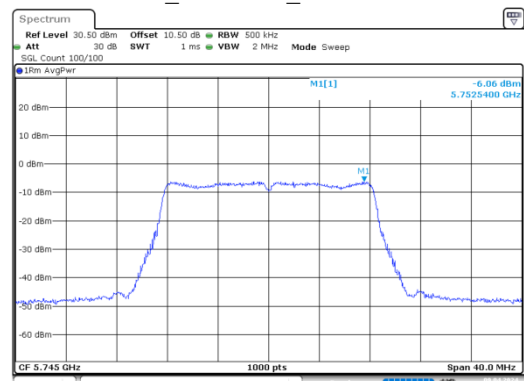
5.8G

a_5745MHz_Chain 0



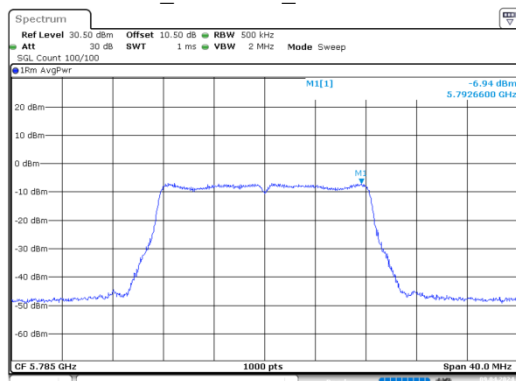
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Date: 9.APR.2024 14:53:35

a_5745MHz_Chain 1



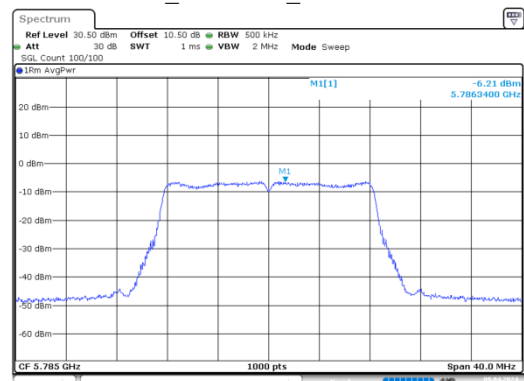
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Date: 9.APR.2024 15:21:01

a_5785MHz_Chain 0



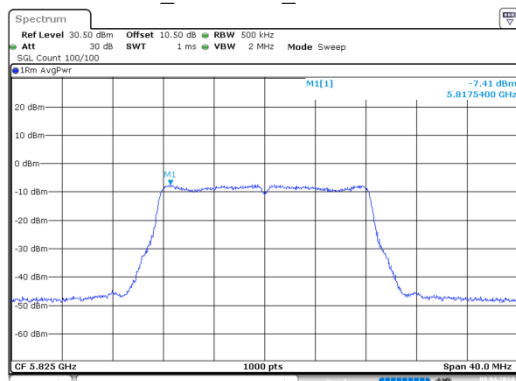
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Date: 9.APR.2024 14:54:50

a_5785MHz_Chain 1



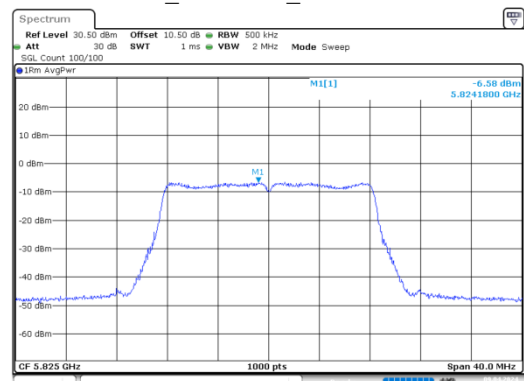
ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 15:21:20

a_5825MHz_Chain 0



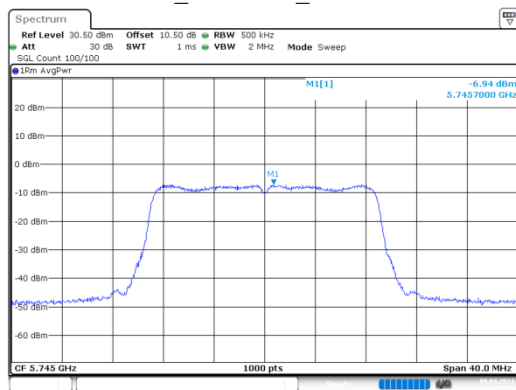
ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:55:50

a_5825MHz_Chain 1



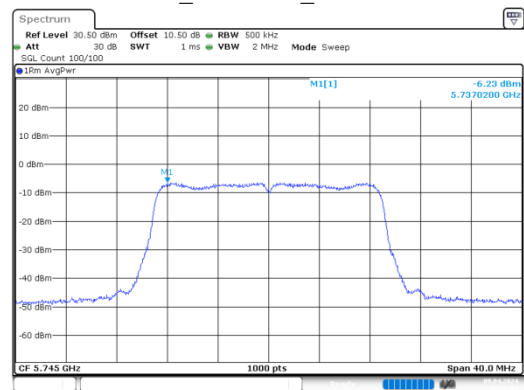
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Date: 9.APR.2024 15:21:40

n20_5745MHz_Chain 0



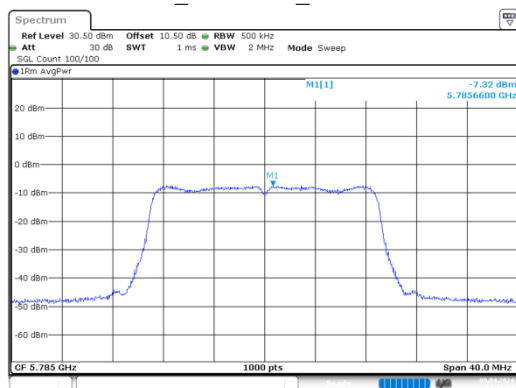
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 14:56:59

n20_5745MHz_Chain 1



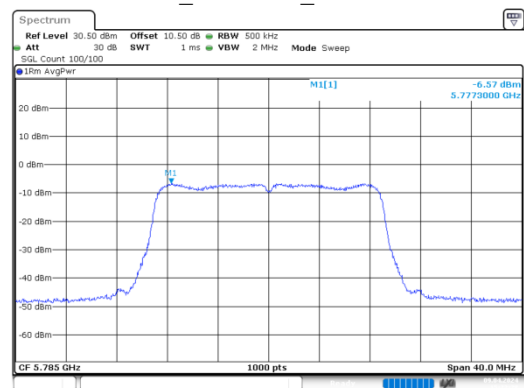
ProjectNo.:DG2240305-10763E-RF Testeri:Allice Tan
Date: 9.APR.2024 15:22:02

n20_5785MHz_Chain 0



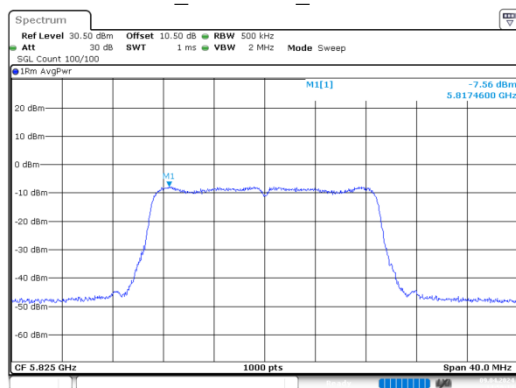
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Date: 9.APR.2024 14:58:15

n20_5785MHz_Chain 1



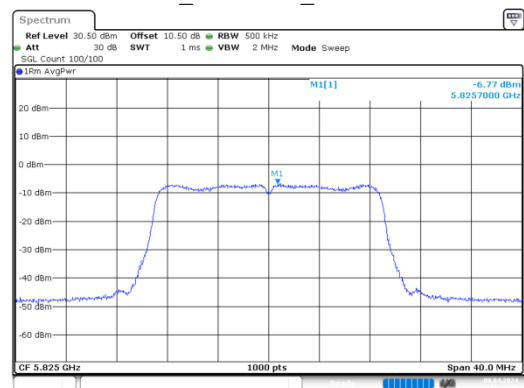
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Date: 9.APR.2024 15:22:29

n20_5825MHz_Chain 0



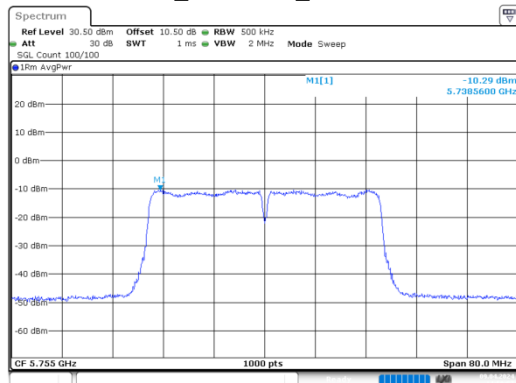
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Date: 9.APR.2024 14:59:15

n20_5825MHz_Chain 1



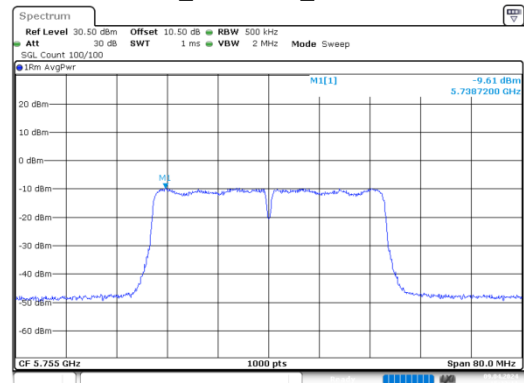
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Date: 9.APR.2024 15:22:49

n40_5755MHz_Chain 0



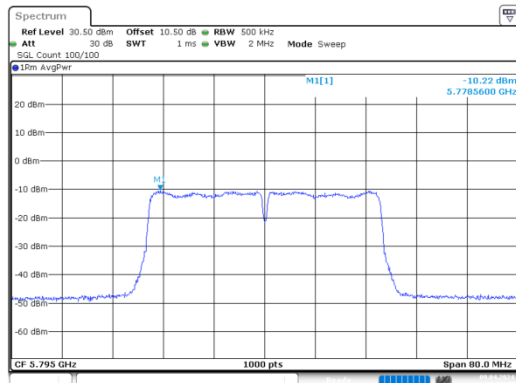
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n40_5755MHz_Chain 1



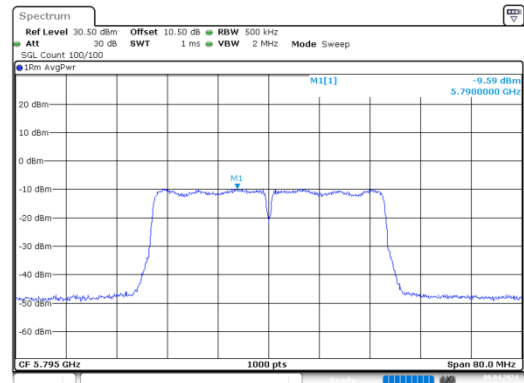
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Date: 9.APR.2024 15:23:12

n40_5795MHz_Chain 0



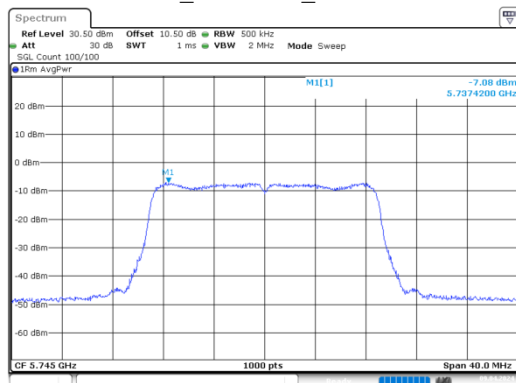
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n40_5795MHz_Chain 1



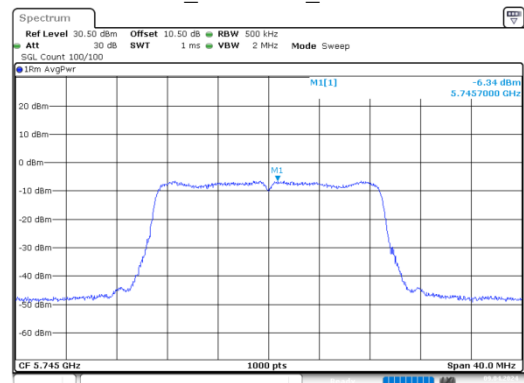
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Date: 9.APR.2024 15:23:12

ac20_5745MHz_Chain 0



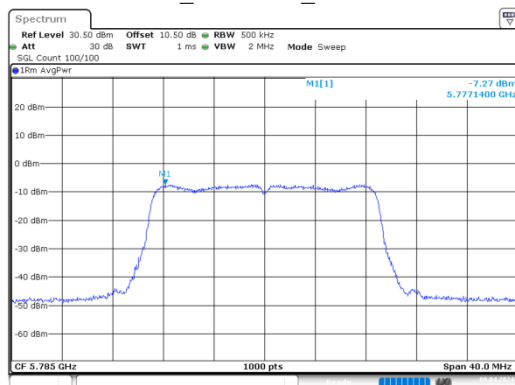
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ac20_5745MHz_Chain 1



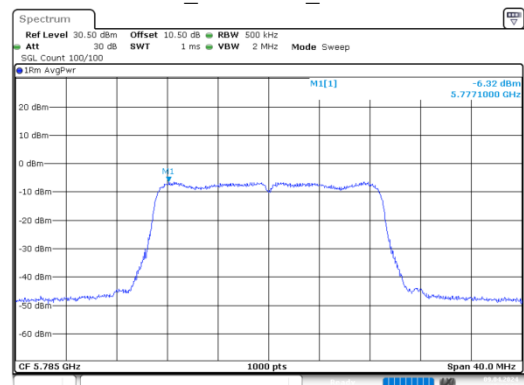
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Date: 9.APR.2024 15:23:12

ac20_5785MHz_Chain 0



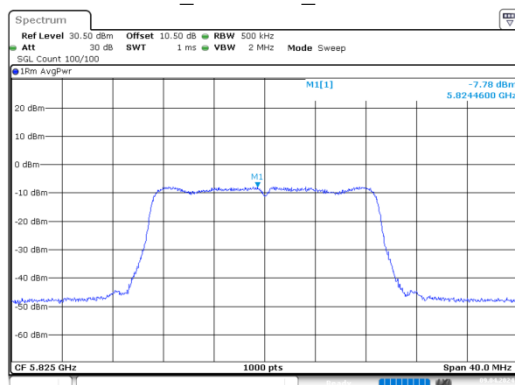
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ac20_5785MHz_Chain 1



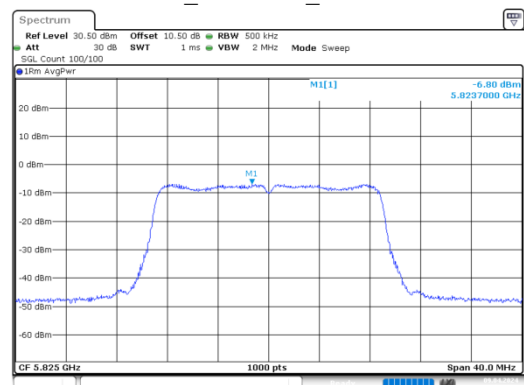
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Date: 9.APR.2024 15:24:11

ac20_5825MHz_Chain 0



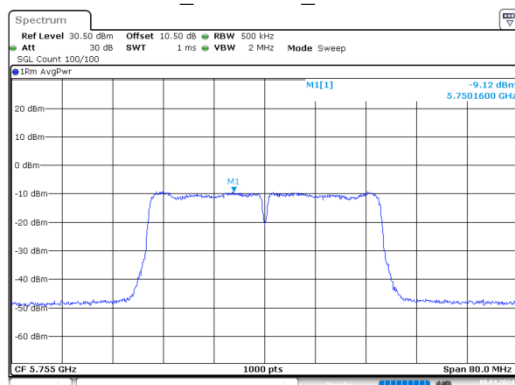
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Date: 9.APR.2024 15:04:16

ac20_5825MHz_Chain 1



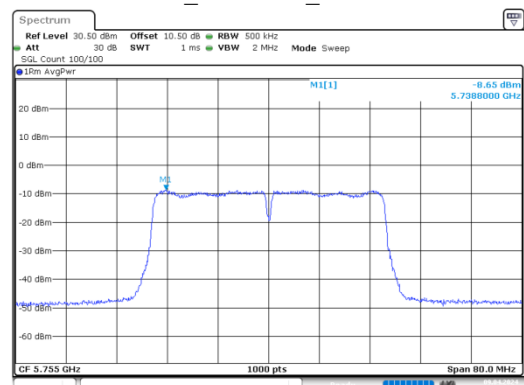
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Date: 9.APR.2024 15:24:27

ac40_5755MHz_Chain 0



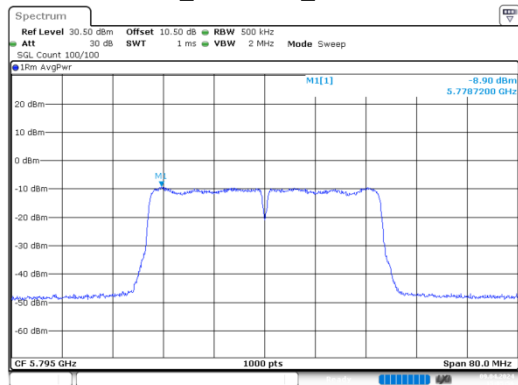
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Date: 9.APR.2024 15:04:58

ac40_5755MHz_Chain 1



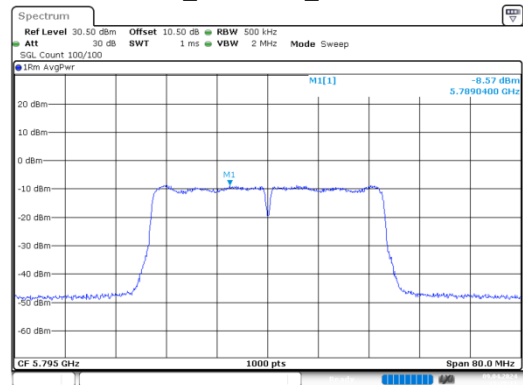
ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 15:24:52

ac40_5795MHz_Chain 0



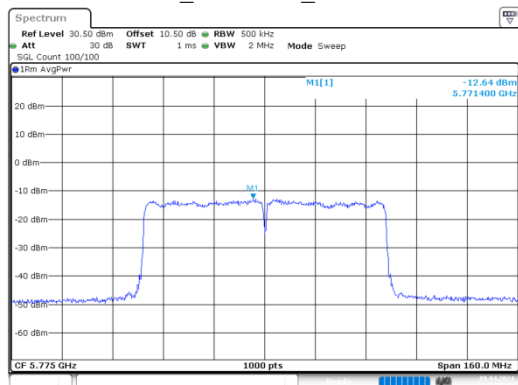
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Date: 9.APR.2024 15:05:57

ac40_5795MHz_Chain 1



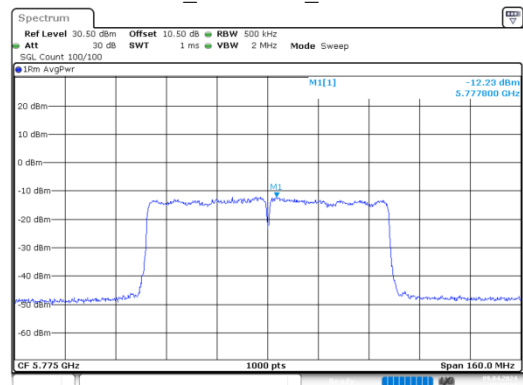
ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 15:25:12

ac80_5775MHz_Chain 0



ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 15:06:52

ac80_5775MHz_Chain 1



ProjectNo.:DG2240305-10763E-RF Tester: Alice Tan
Date: 9.APR.2024 15:25:29

5.7 Duty Cycle

Serial No.:	2IAQ-2	Test Date:	2024/04/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Alice Tan	Test Result:	/

Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	44	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM488	2023/09/10	2024/09/09

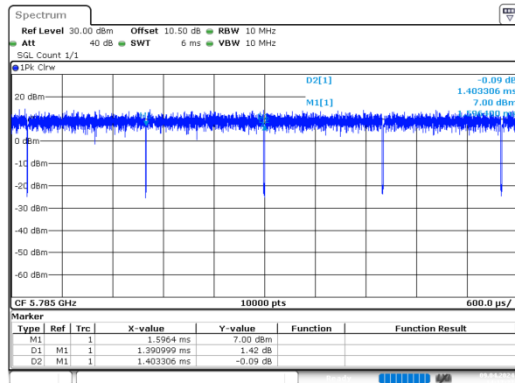
* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)	VBW Setting (kHz)
a_5785MHz_Chain 0	1.391	1.403	99.14	/	/	0.01
n20_5785MHz_Chain 0	1.300	1.312	99.09	/	/	0.01
n40_5755MHz_Chain 0	0.648	0.660	98.18	/	/	0.01
ac20_5785MHz_Chain 0	1.303	1.317	98.94	/	/	0.01
ac40_5755MHz_Chain 0	0.652	0.665	98.05	/	/	0.01
ac80_5775MHz_Chain 0	0.324	0.334	97.01	0.13	3086	5

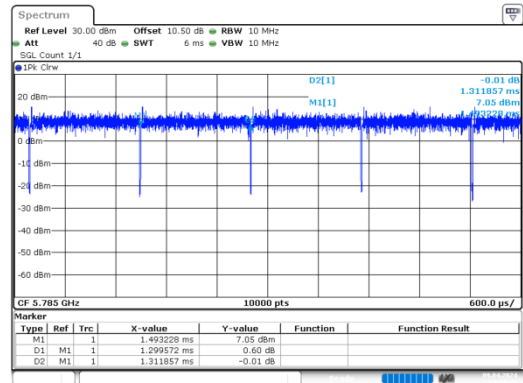
Duty Cycle = Ton/(Ton+Toff)*100%

a_5785MHz_Chain 0



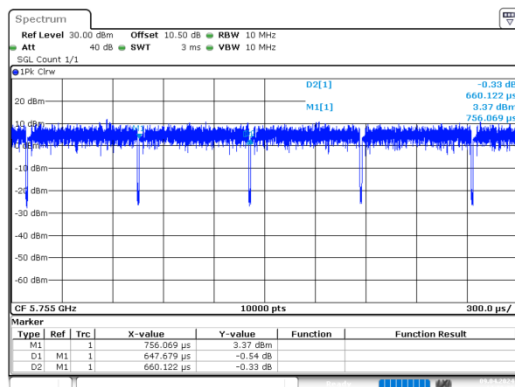
ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:17:28

n20_5785MHz_Chain 0



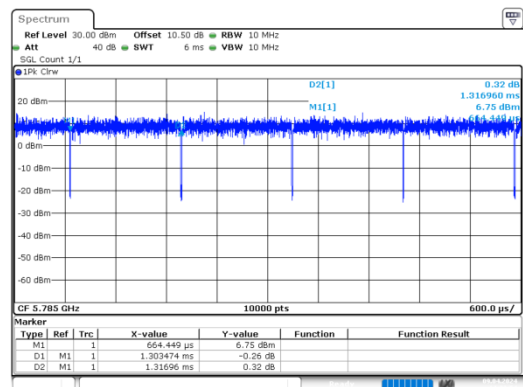
ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:19:25

n40_5755MHz_Chain 0



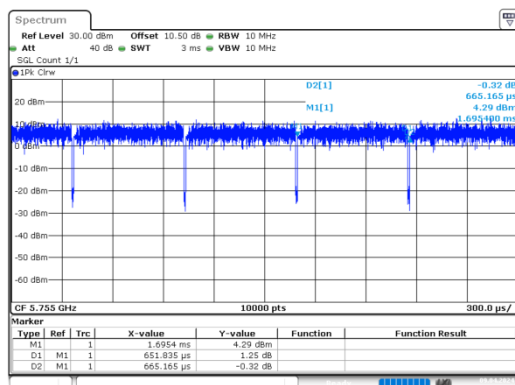
ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:20:39

ac20_5785MHz_Chain 0



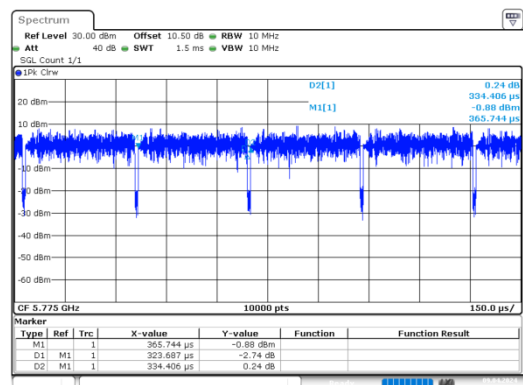
ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:22:14

ac40_5755MHz_Chain 0



ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:24:16

ac80_5775MHz_Chain 0



ProjectNo.:DG2240305-10763E-RF Tester:Alice Tan
Date: 9.APR.2024 14:25:37

APPENDIX A - EUT PHOTOGRAPHS

Please refer to the attachment DG2240305-10763E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and DG2240305-10763E-RF-INP EUT INTERNAL PHOTOGRAPHS.

APPENDIX B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment DG2240305-10763E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

APPENDIX C - RF EXPOSURE EVALUATION

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	(numeric)	(dBm)	(mW)			
2412-2462	4.5	2.82	20	100.00	20.00	0.06	1.0
5150-5250	11.17	13.09	19	79.43	20.00	0.21	1.0
5725-5850	11.49	14.09	13	19.95	20.00	0.06	1.0

The Conducted output power including Tune-up Tolerance provided by manufacturer

The WLAN 2.4G and 5G can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$$=S_{2.4}/S_{limit-2.4} + S_5/S_{limit-5}$$

$$=0.06/1+0.21/1$$

$$=0.27$$

$$< 1.0$$

Result: The device meet FCC MPE at 20 cm distance

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