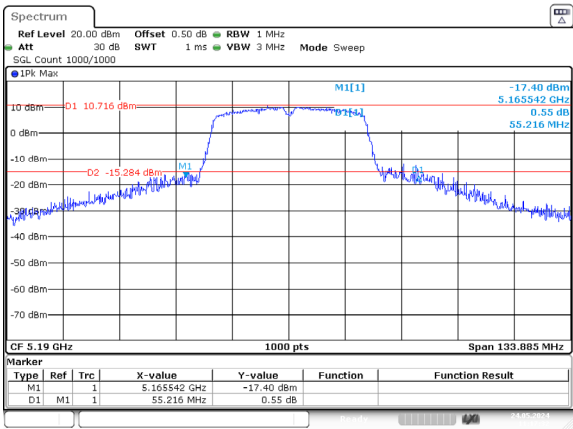
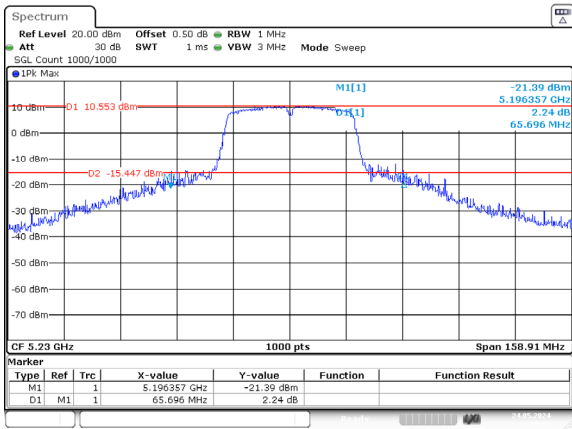


ac40_5190MHz_Chain 0



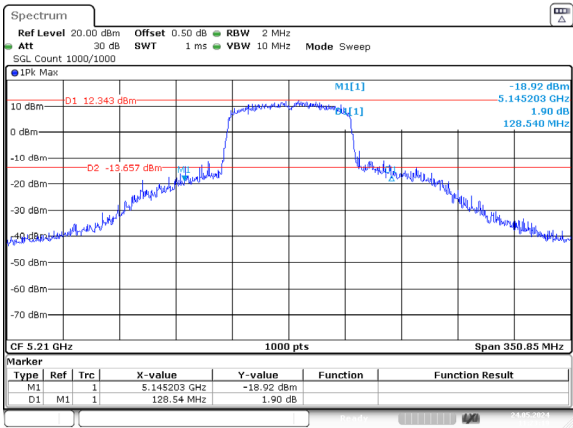
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 11:17:32

ac40_5230MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 11:18:35

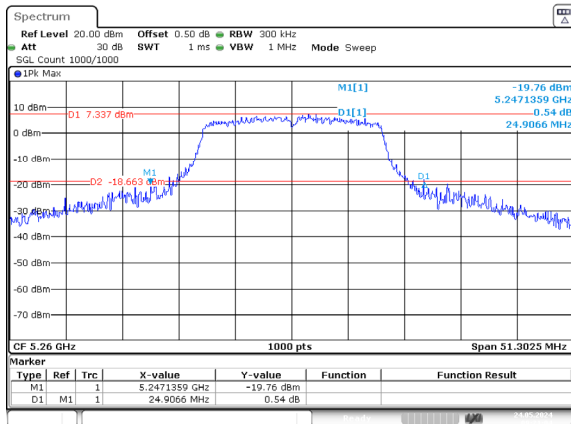
ac80_5210MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 11:23:19

5250-5350 MHz:

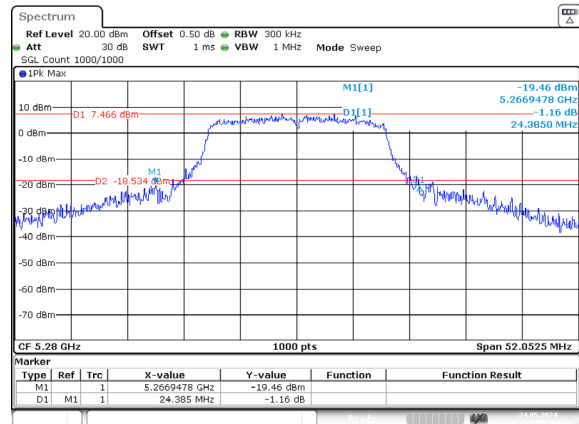
a_5260MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 09:21:03

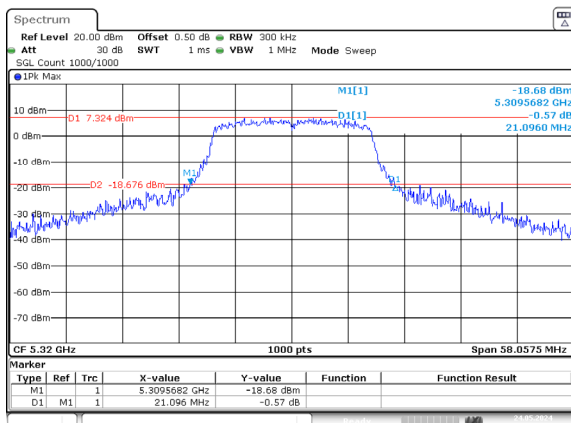
a_5280MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 09:23:44

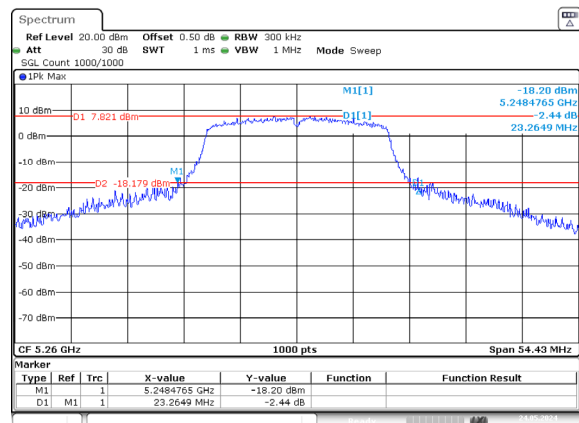
a_5320MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 09:25:47

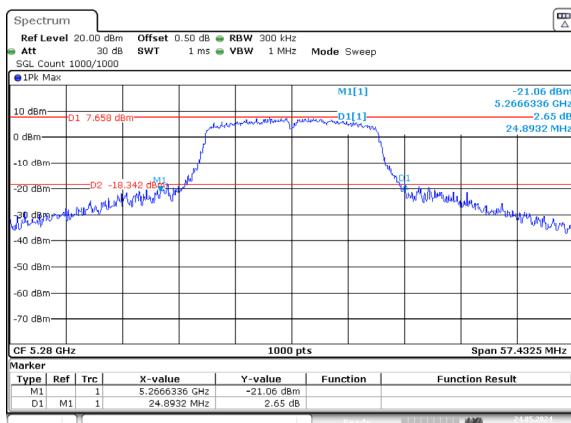
ac20_5260MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 11:29:29

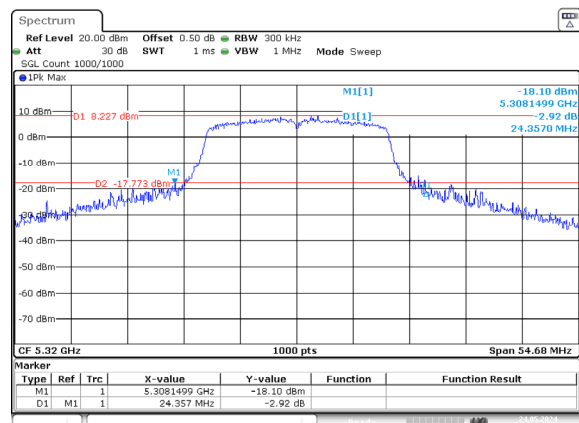
ac20_5280MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng

Date: 24.MAY.2024 11:30:42

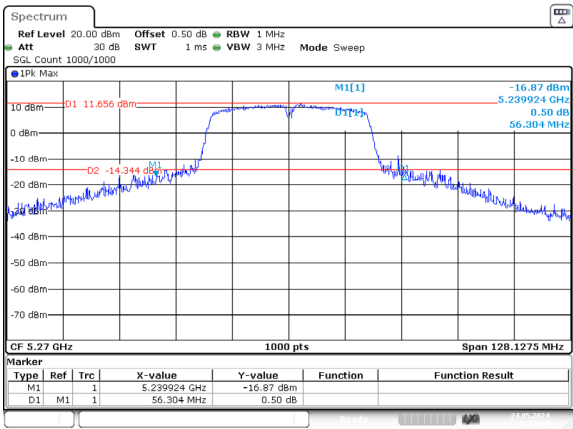
ac20_5320MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng

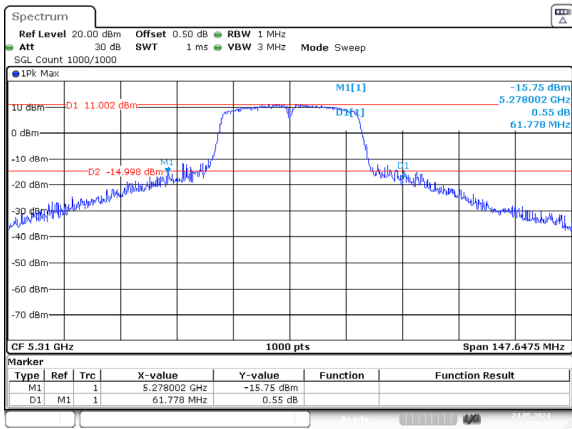
Date: 24.MAY.2024 11:31:46

ac40_5270MHz_Chain 0



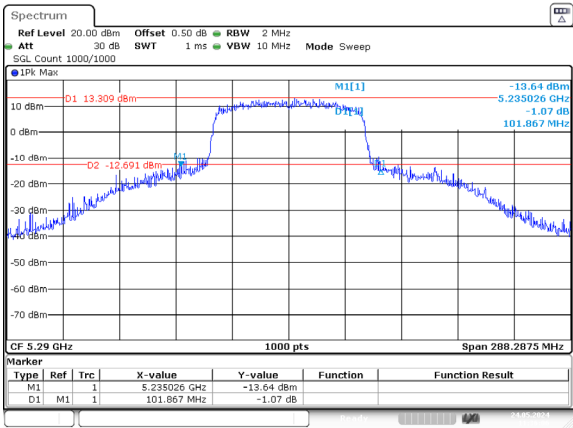
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 11:32:51

ac40_5310MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 11:33:43

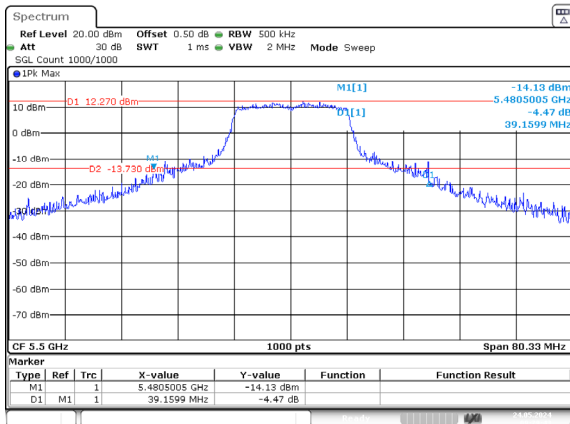
ac80_5290MHz_Chain 0



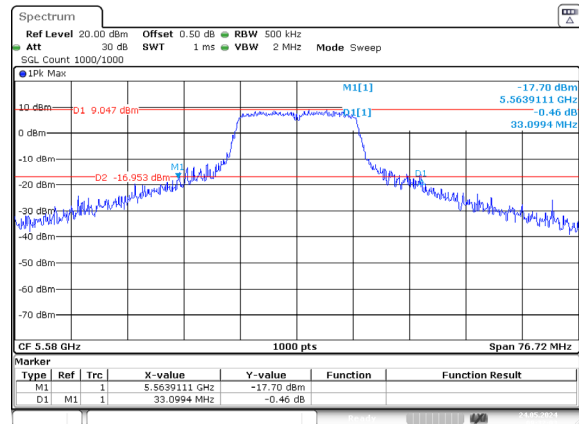
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 11:36:06

5470-5725 MHz:

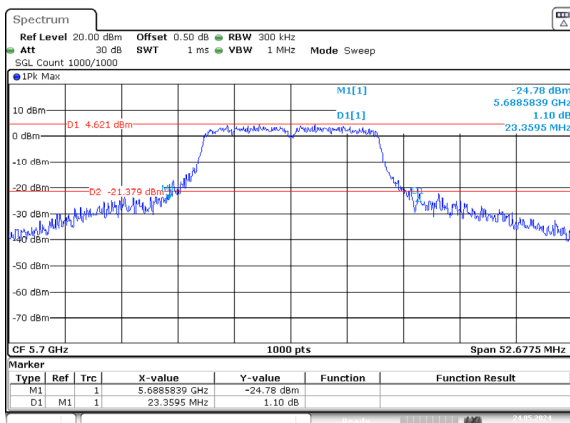
a_5500MHz_Chain 0



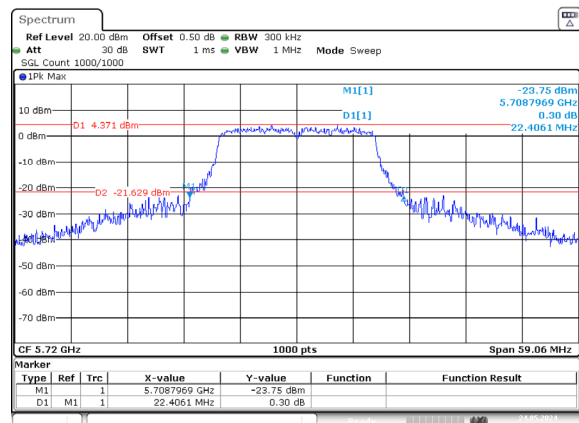
a_5580MHz_Chain 0



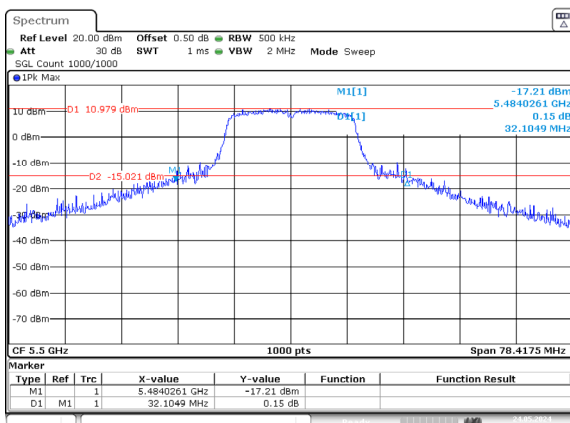
a_5700MHz_Chain 0



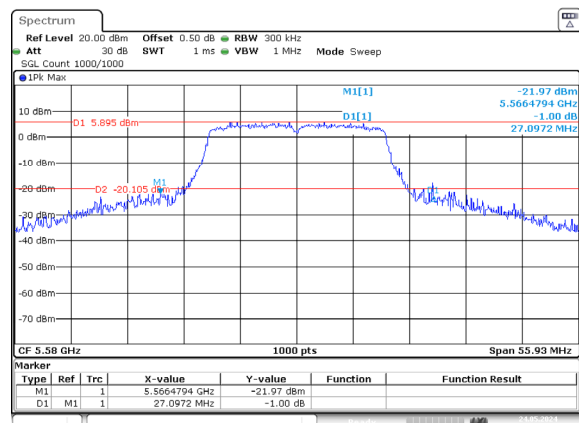
a_5720MHz_Chain 0



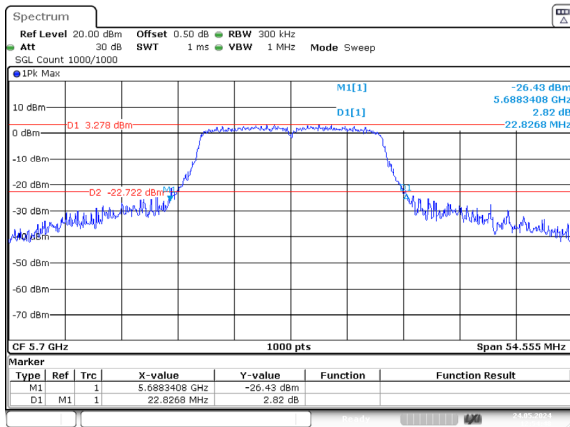
ac20_5500MHz_Chain 0



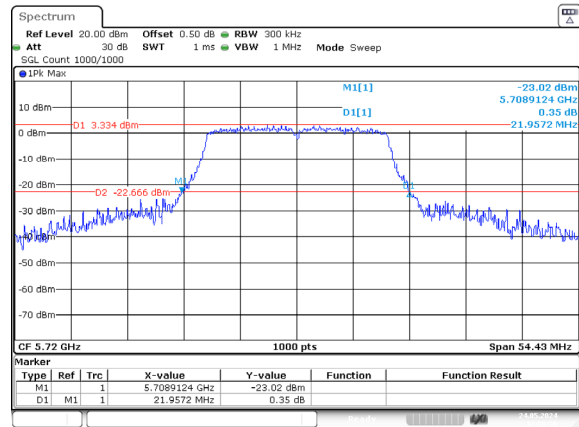
ac20_5580MHz_Chain 0



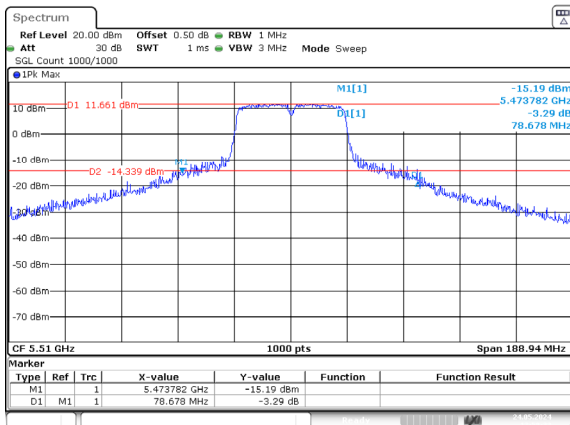
ac20_5700MHz_Chain 0



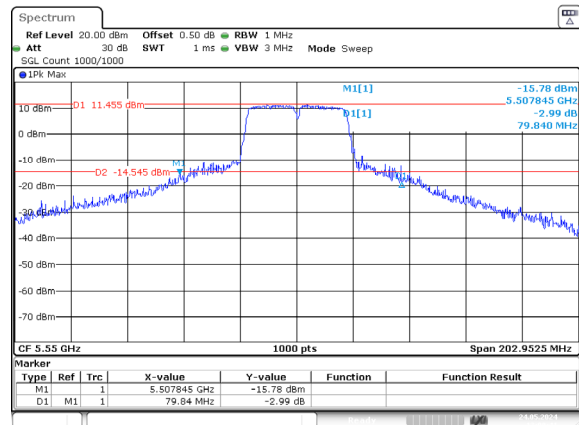
ac20_5720MHz_Chain 0



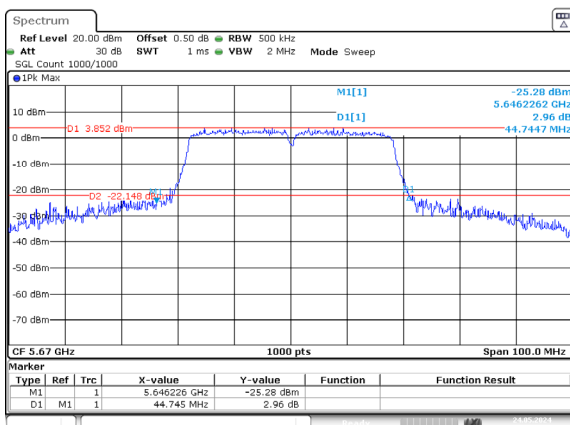
ac40_5510MHz_Chain 0



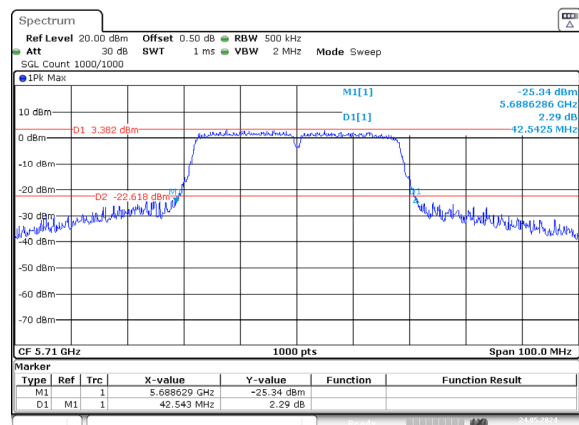
ac40_5550MHz_Chain 0



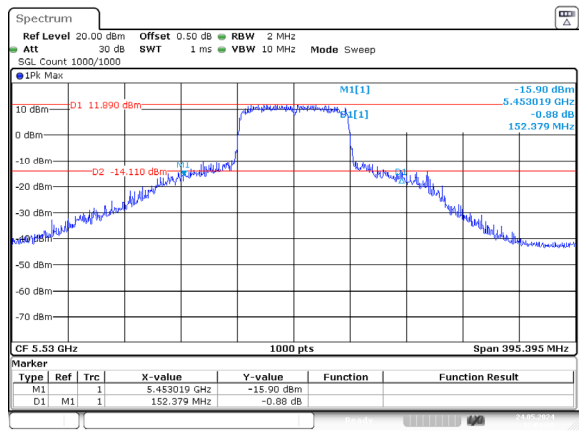
ac40_5670MHz_Chain 0



ac40_5710MHz_Chain 0

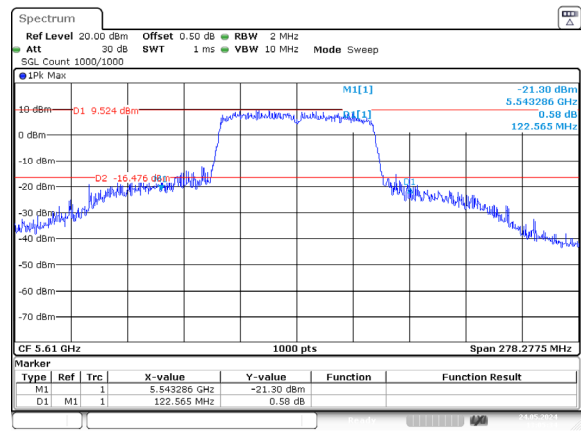


ac80_5530MHz_Chain 0



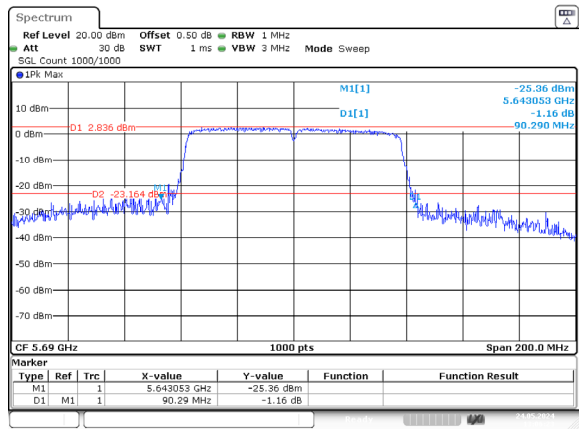
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:04:32

ac80_5610MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:05:14

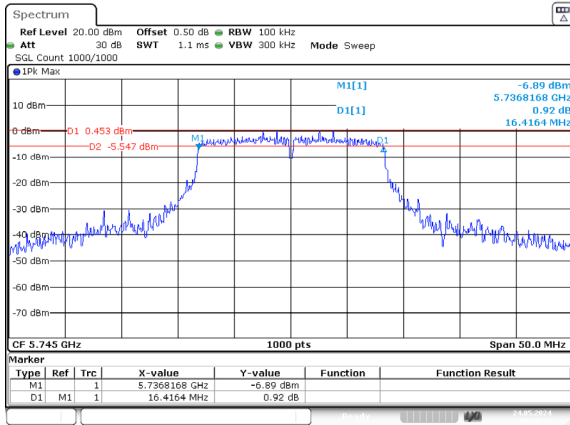
ac80_5690MHz_Chain 0 90.290MHz



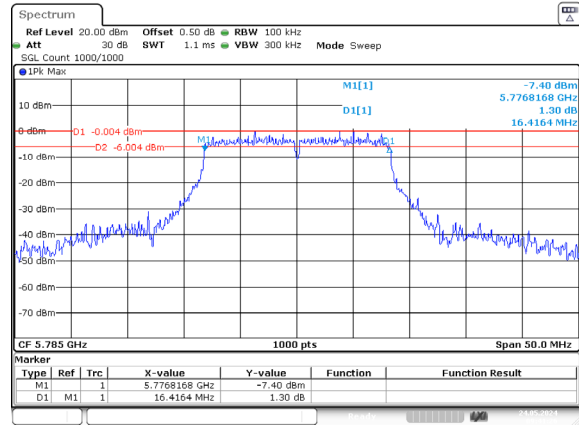
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:06:24

6dB Emission Bandwidth:**5725-5850 MHz:**

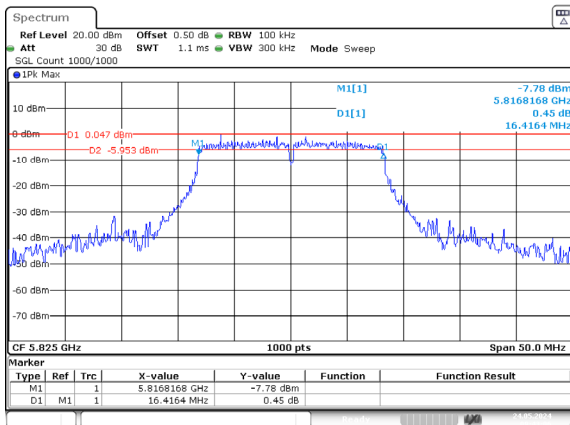
a_5745MHz_Chain 0

ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:13:17

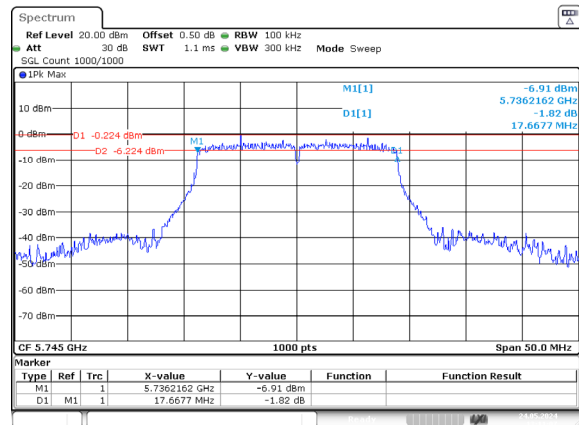
a_5785MHz_Chain 0

ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:41:25

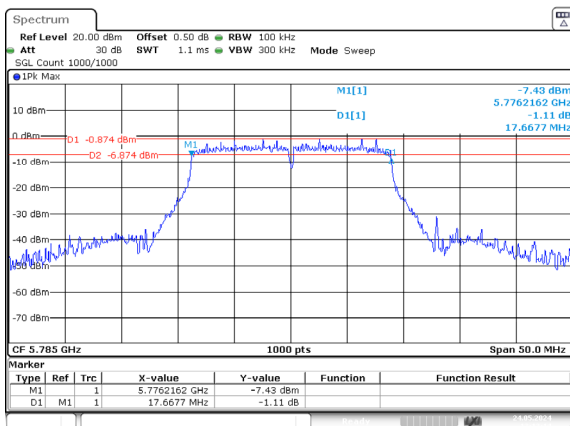
a_5825MHz_Chain 0

ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:43:06

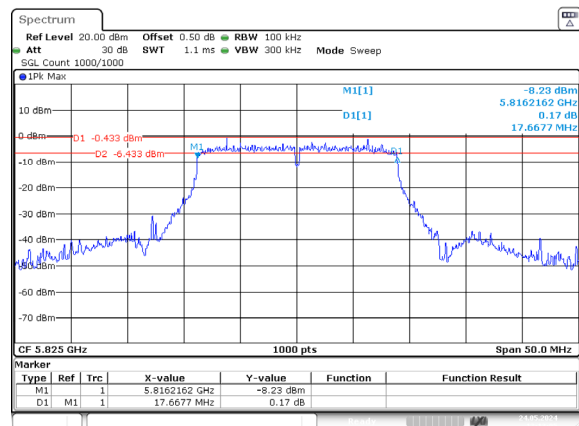
ac20_5745MHz_Chain 0

ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:11:06

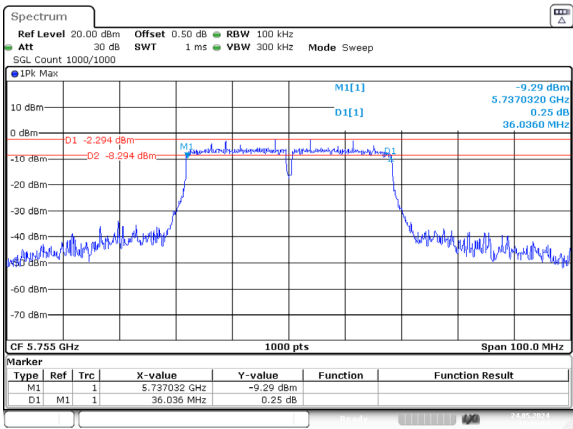
ac20_5785MHz_Chain 0

ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:12:13

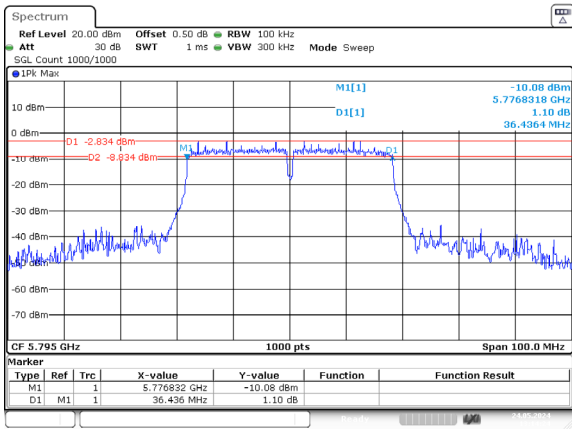
ac20_5825MHz_Chain 0

ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:13:05

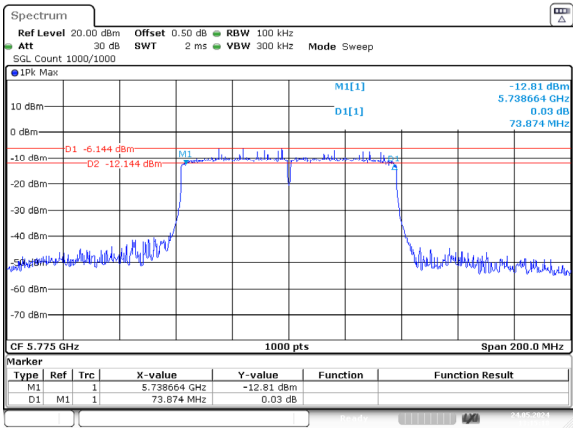
ac40_5755MHz_Chain 0



ac40_5795MHz_Chain 0



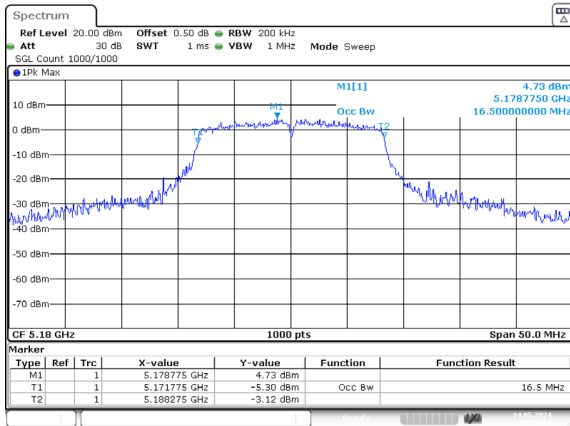
ac80_5775MHz_Chain 0



99% Occupied Bandwidth:

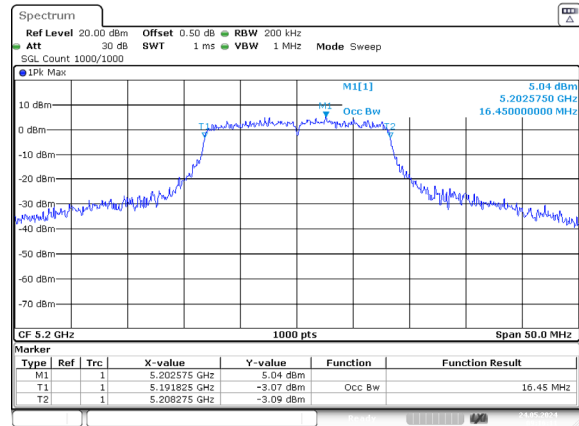
5150-5250 MHz:

a_5180MHz_Chain 0



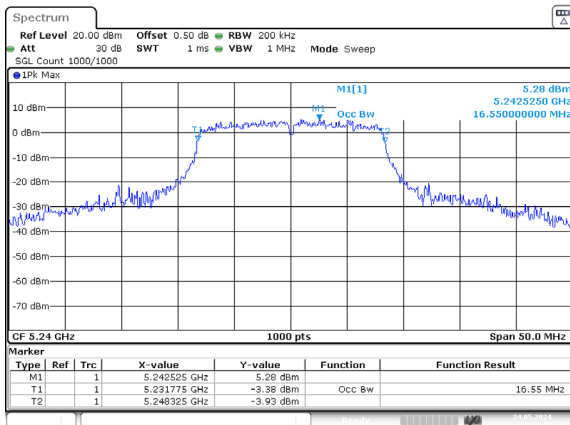
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:14:08

a_5200MHz_Chain 0



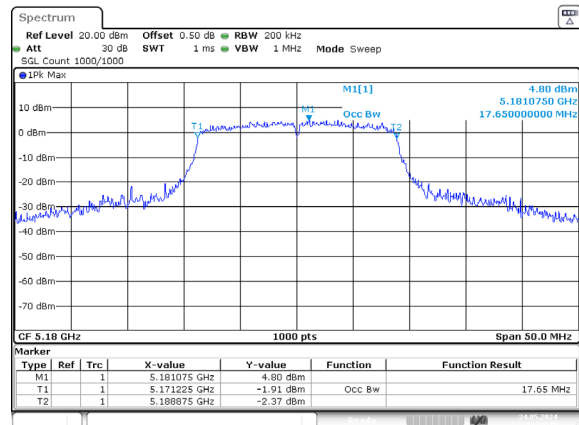
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:16:11

a_5240MHz_Chain 0



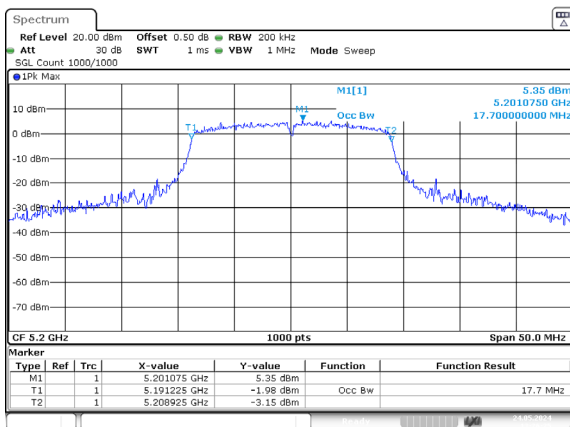
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:18:11

ac20_5180MHz_Chain 0



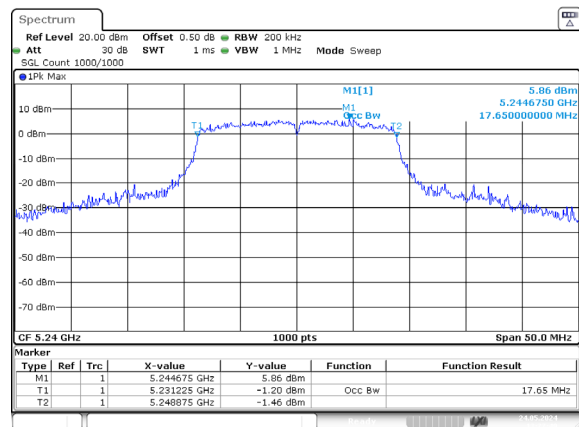
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:25:19

ac20_5200MHz_Chain 0



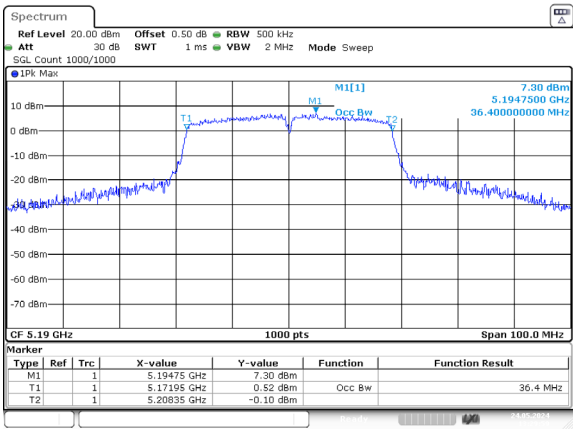
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:26:24

ac20_5240MHz_Chain 0



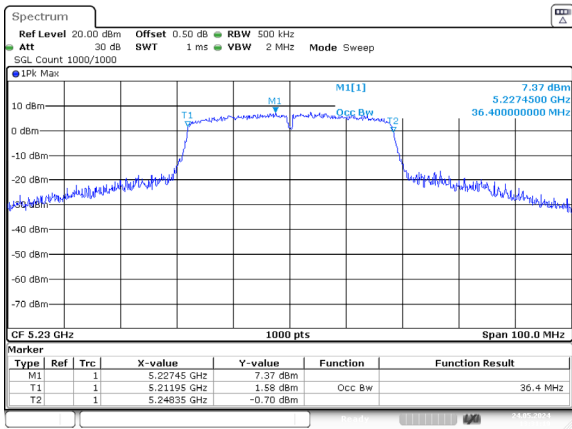
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:27:48

ac40_5190MHz_Chain 0



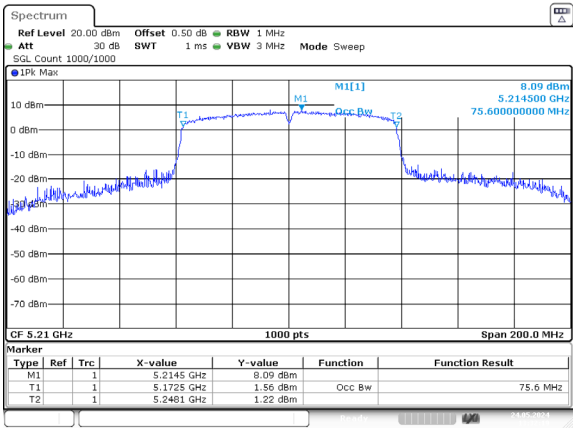
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:29:59

ac40_5230MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:31:19

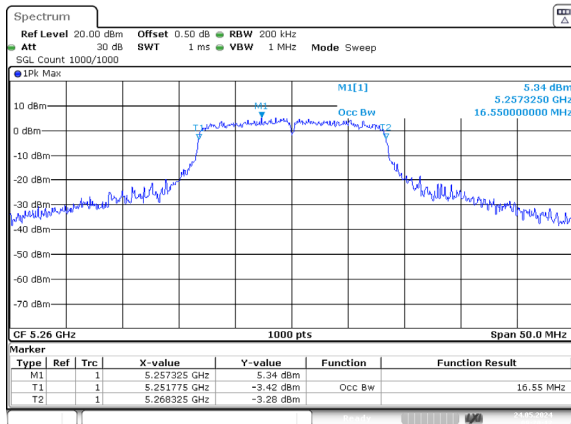
ac80_5210MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:32:19

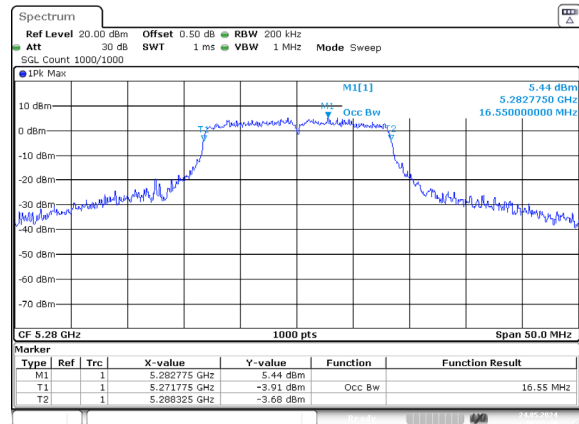
5250-5350 MHz:

a_5260MHz_Chain 0



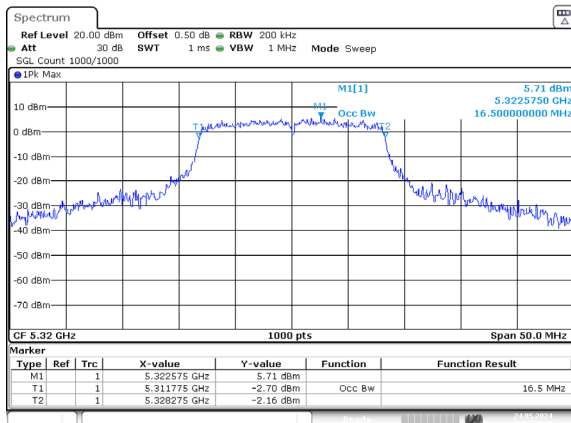
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:20:12

a_5280MHz_Chain 0



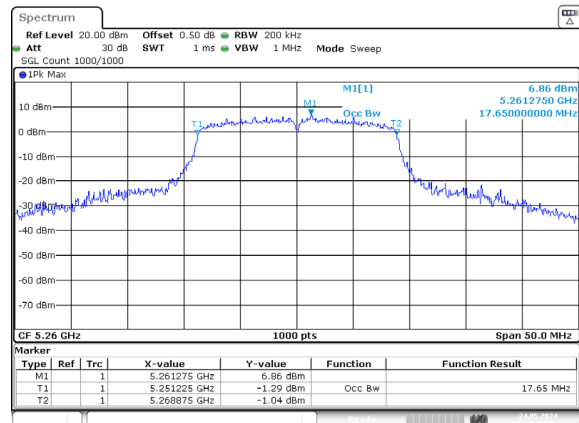
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:22:49

a_5320MHz_Chain 0



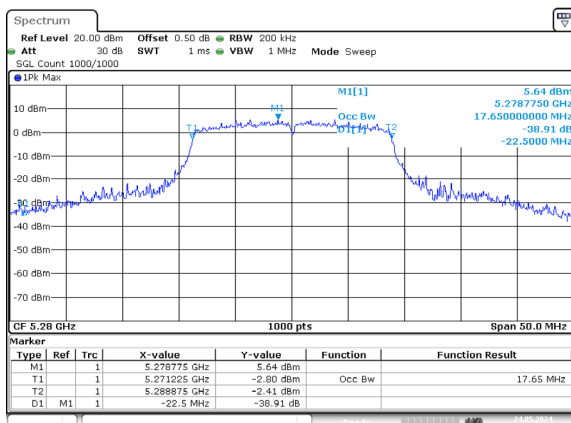
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 09:24:56

ac20_5260MHz_Chain 0



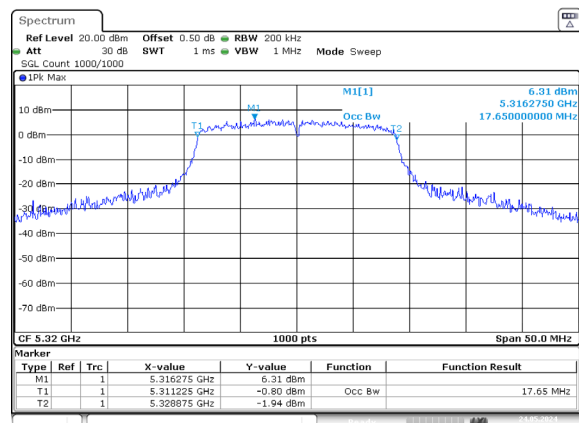
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 13:43:36

ac20_5280MHz_Chain 0



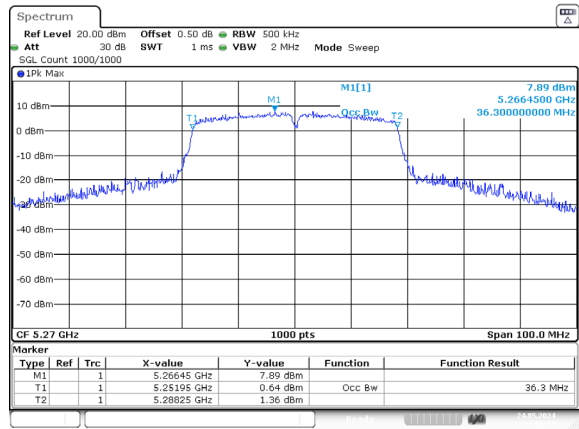
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:02:10

ac20_5320MHz_Chain 0



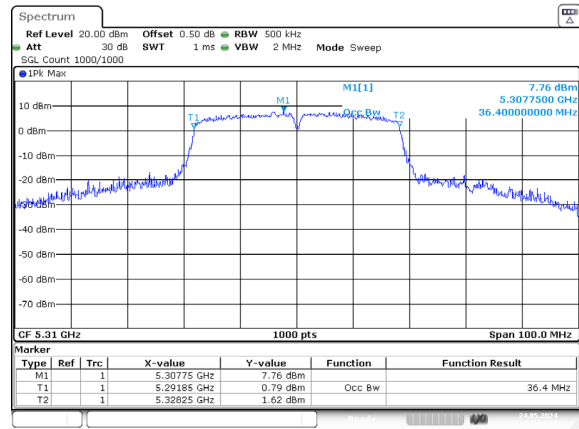
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:05:14

ac40_5270MHz_Chain 0



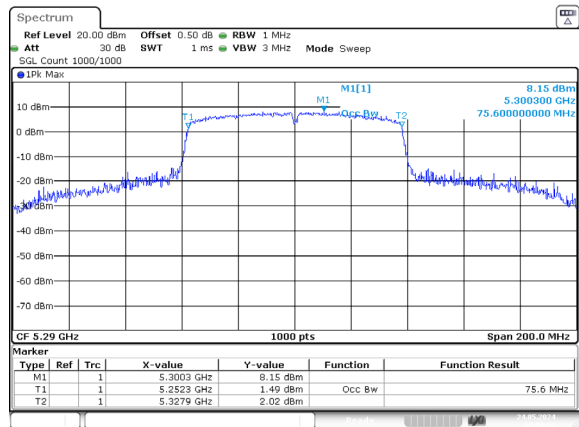
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:06:21

ac40_5310MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:07:28

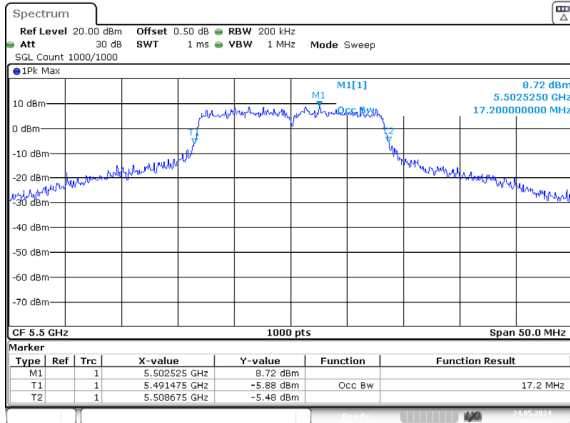
ac80_5290MHz_Chain 0



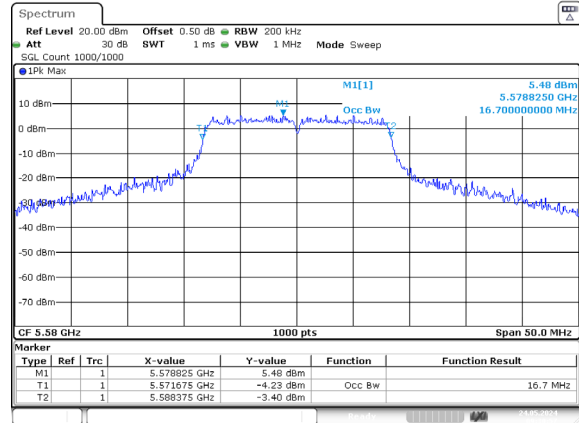
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:08:32

5470-5725 MHz:

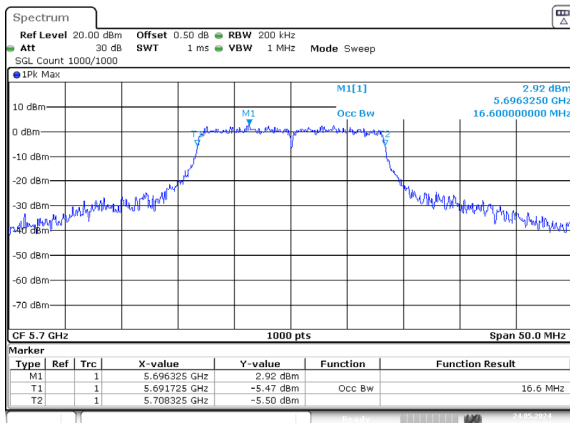
a_5500MHz_Chain 0



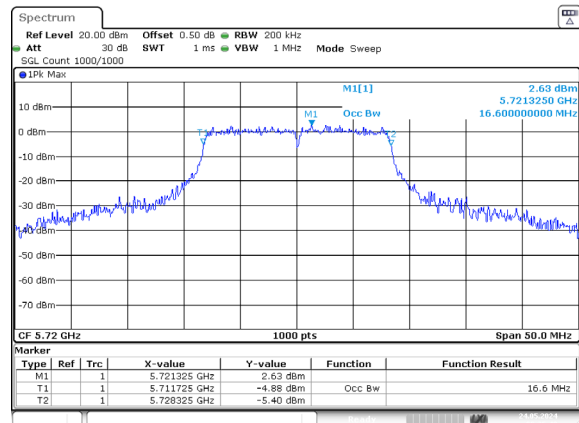
a_5580MHz_Chain 0



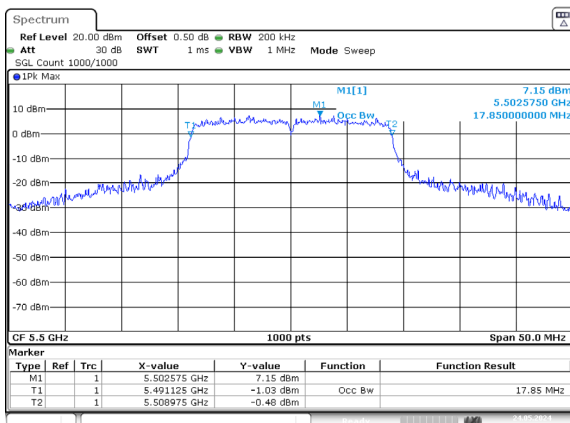
a_5700MHz_Chain 0



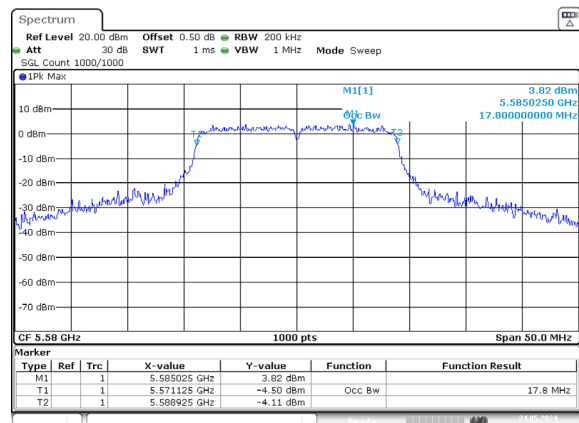
a_5720MHz_Chain 0



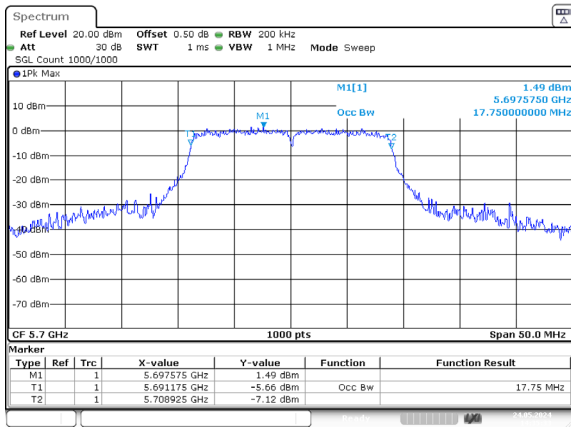
ac20_5500MHz_Chain 0



ac20_5580MHz_Chain 0

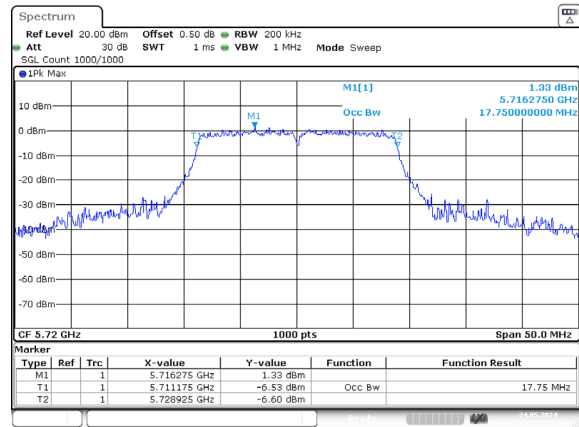


ac20_5700MHz_Chain 0z



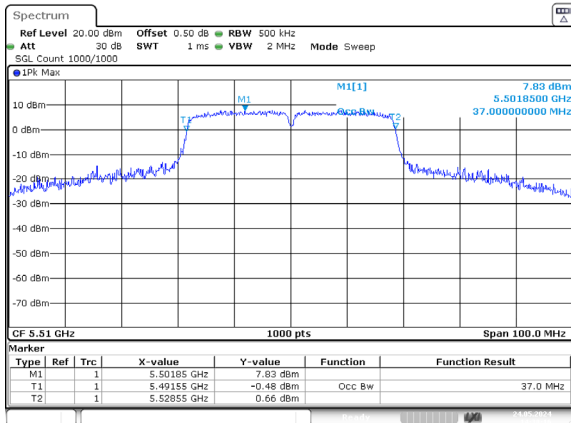
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:35:33

ac20_5720MHz_Chain 0



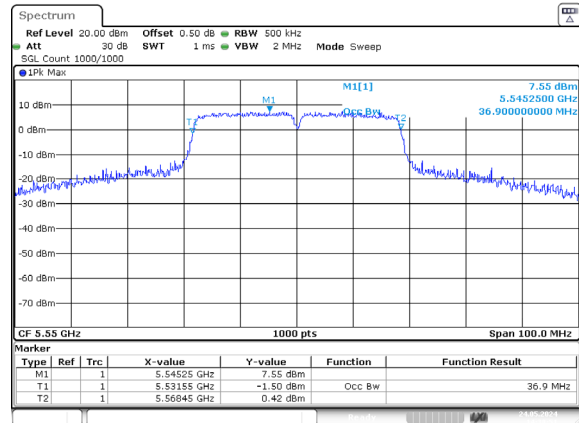
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:37:25

ac40_5510MHz_Chain 0



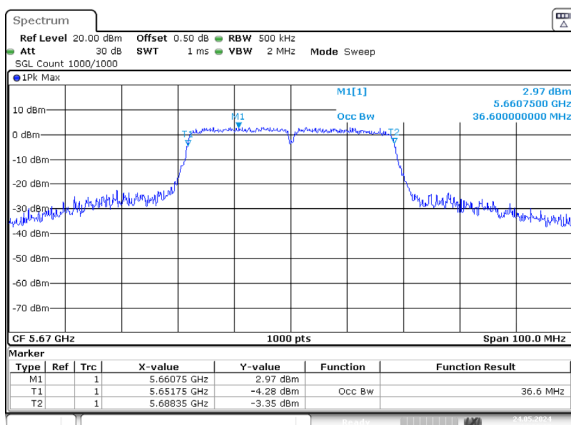
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:38:16

ac40_5550MHz_Chain 0



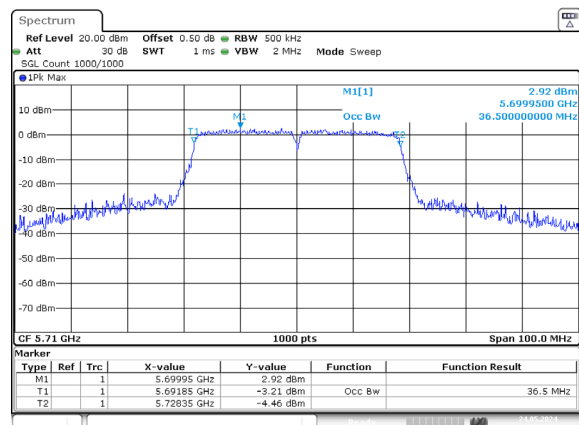
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:38:50

ac40_5670MHz_Chain 0



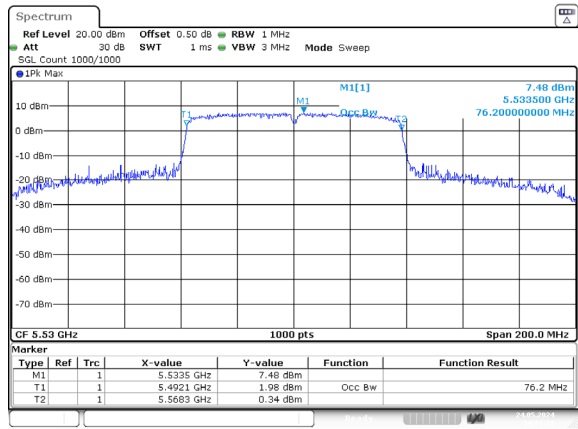
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:39:27

ac40_5710MHz_Chain 0



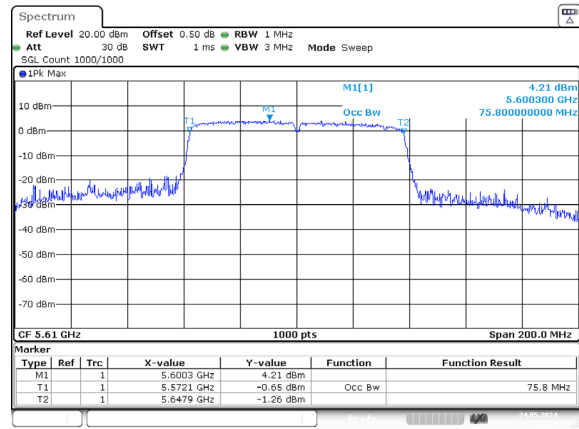
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:40:25

ac80_5530MHz_Chain 0



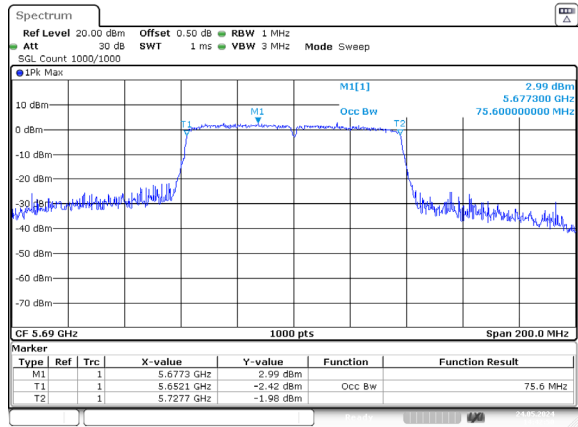
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:41:23

ac80_5610MHz_Chain 0

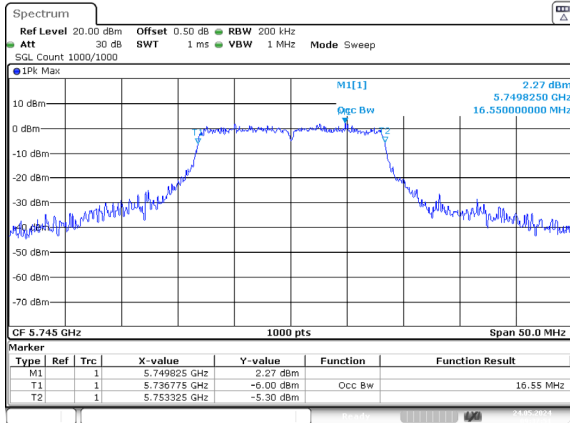
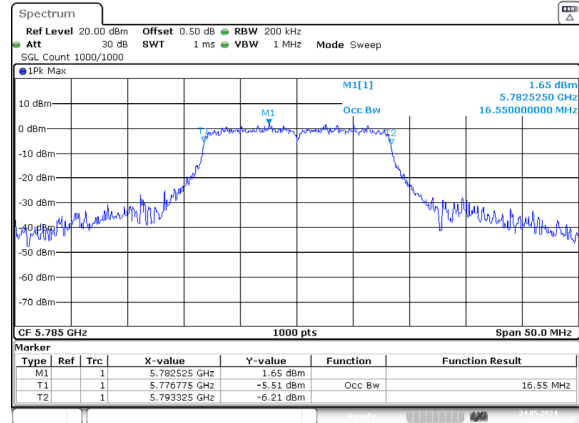
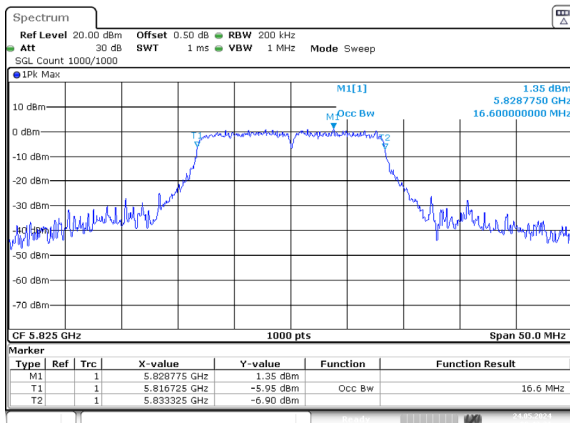
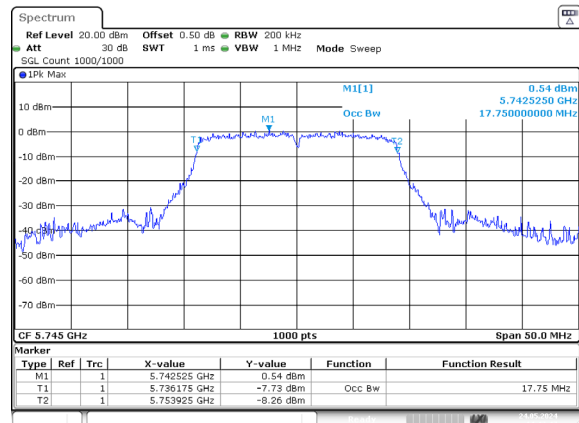
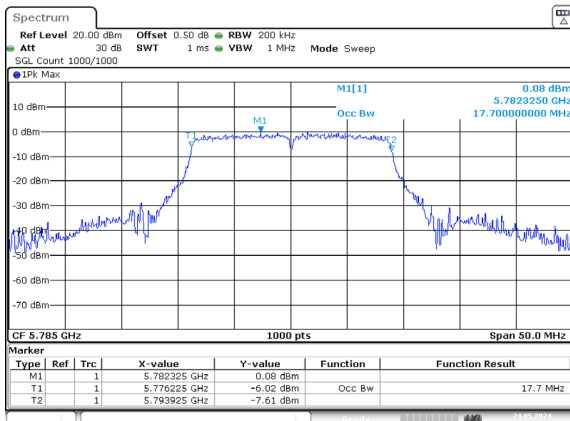
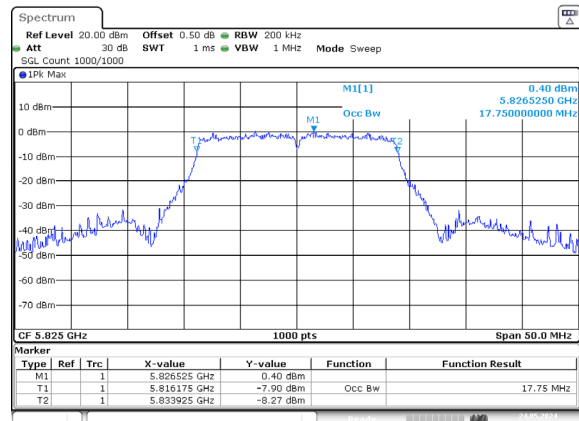


ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:42:09

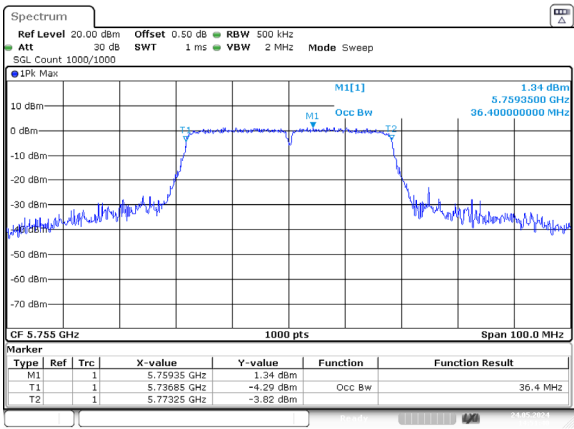
ac80_5690MHz_Chain 0



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:42:50

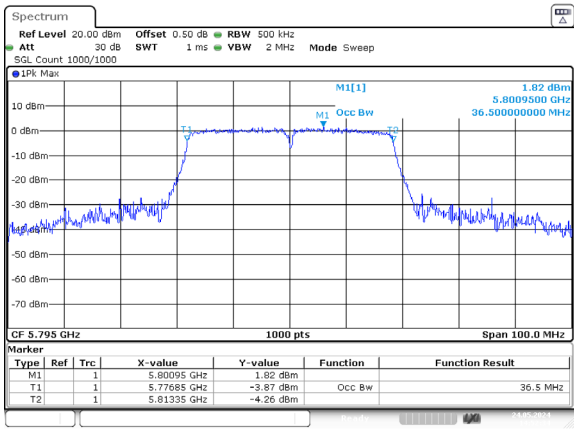
5725-5850 MHz:**a_5745MHz_Chain 0 16.550MHz****a_5785MHz_Chain 0 16.550MHz****a_5825MHz_Chain 0 16.600MHz****ac20_5745MHz_Chain 0 17.750MHz****ac20_5785MHz_Chain 0 17.700MHz****ac20_5825MHz_Chain 0 17.750MHz**

ac40_5755MHz_Chain 0 36.400MHz



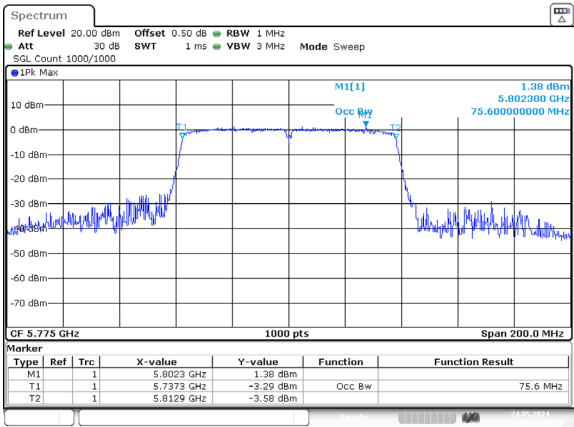
ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:51:40

ac40_5795MHz_Chain 0 36.500MHz



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:52:14

ac80_5775MHz_Chain 0 75.600MHz



ProjectNo.:2407T76694E-RF Tester:Stein Peng
Date: 24.MAY.2024 14:53:37

FCC §15.407(a) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

FCC §15.407(a) (1)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

EUT Setup



Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1

Method PM-G is measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-05-24	Test Voltage:	AC120V/60Hz
Test Result:	Compliance	Environment:	Temp.: 24.3°C Humi.: 59% Atm.:100.5kPa
Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Reading	Limit
5150-5250 MHz			
802.11a	5180	13.11	24
	5200	13.36	24
	5240	13.67	24
802.11ac vht20	5180	14.46	24
	5200	14.71	24
	5240	14.97	24
802.11ac vht40	5190	14.51	24
	5230	14.87	24
802.11ac vht80	5210	14.41	24
5250-5350 MHz			
802.11a	5260	13.57	24
	5280	13.78	24
	5320	13.96	24
802.11ac vht20	5260	14.97	24
	5280	15.15	24
	5320	15.31	24
802.11ac vht40	5270	14.98	24
	5310	15.21	24
802.11ac vht80	5290	14.82	24
5470-5725 MHz			
802.11a	5500	11.83	24
	5580	10.23	24
	5700	8.13	24
	5720	7.81	24
802.11ac vht20	5500	13.38	24
	5580	11.73	24
	5700	9.63	24
	5720	9.29	24
802.11ac vht40	5510	13.36	24
	5550	13.33	24
	5670	10.07	24
	5710	9.42	24
802.11ac vht80	5530	12.21	24
	5610	10.15	24
	5690	8.62	24

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Reading	Limit
5725-5850 MHz			
802.11a	5745	8.48	30
	5785	7.91	30
	5825	7.39	30
802.11ac vht20	5745	9.95	30
	5785	9.36	30
	5825	8.88	30
802.11ac vht40	5755	9.77	30
	5795	9.2	30
802.11ac vht80	5775	8.34	30

Note:

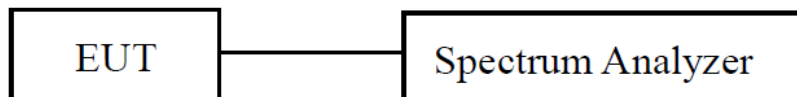
The device is a client device.

FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

FCC §15.407(a) (1)(i); FCC §15.407(a) (2); FCC §15.407(a) (3)(i)

EUT Setup



Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

Test Data

Test Mode:		Transmitting		Test Engineer:		Stein Peng	
Test Date:		2024-05-24		Test Voltage:		AC120V/60Hz	
Test Result:		Compliance		Environment:		Temp.: 24.3°C Humi.: 59% Atm: 100.5kPa	
Test Modes	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/MHz)			
				Result	Limit		
5150-5250 MHz							
802.11a	5180	-2.75	2.39	-0.36	11		
	5200	-3.39	2.39	-1.00	11		
	5240	-3.76	2.39	-1.37	11		
802.11ac vht20	5180	1.21	0.80	2.01	11		
	5200	1.12	0.80	1.92	11		
	5240	1.54	0.80	2.34	11		
802.11ac vht40	5190	-2.31	0.83	-1.48	11		
	5230	-1.22	0.83	-0.39	11		
802.11ac vht80	5210	-5.14	0.89	-4.25	11		
5250-5350 MHz							
802.11a	5260	-1.83	2.39	0.56	11		
	5280	-1.97	2.39	0.42	11		
	5320	-2.81	2.39	-0.42	11		
802.11ac vht20	5260	1.41	0.80	2.21	11		
	5280	1.38	0.80	2.18	11		
	5320	2.28	0.80	3.08	11		
802.11ac vht40	5270	-1.33	0.83	-0.50	11		
	5310	-2.06	0.83	-1.23	11		
802.11ac vht80	5290	-3.83	0.89	-2.94	11		
5470-5725 MHz							
802.11a	5500	-0.95	2.39	1.44	11		
	5580	-4.62	2.39	-2.23	11		
	5700	-5.73	2.39	-3.34	11		
	5720	-7.5	2.39	-5.11	11		
802.11ac vht20	5500	2.7	0.80	3.50	11		
	5580	-0.42	0.80	0.38	11		
	5700	-2.89	0.80	-2.09	11		
	5720	-4.16	0.80	-3.36	11		
802.11ac vht40	5510	-0.28	0.83	0.55	11		
	5550	-0.64	0.83	0.19	11		
	5670	-5.44	0.83	-4.61	11		
	5710	-5.62	0.83	-4.79	11		
802.11ac vht80	5530	-5.32	0.89	-4.43	11		
	5610	-8.61	0.89	-7.72	11		
	5690	-10.11	0.89	-9.22	11		

Test Modes	Test Frequency (MHz)	Reading (dBm /500kHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm /500kHz)	
				Result	Limit
5725-5850 MHz					
802.11a	5745	-8.89	2.39	-6.50	30
	5785	-9.01	2.39	-6.62	30
	5825	-9.38	2.39	-6.99	30
802.11ac vht20	5745	-7.29	0.80	-6.49	30
	5785	-7.3	0.80	-6.50	30
	5825	-6.33	0.80	-5.53	30
802.11ac vht40	5755	-10.13	0.83	-9.30	30
	5795	-10.07	0.83	-9.24	30
802.11ac vht80	5775	-14.22	0.89	-13.33	30