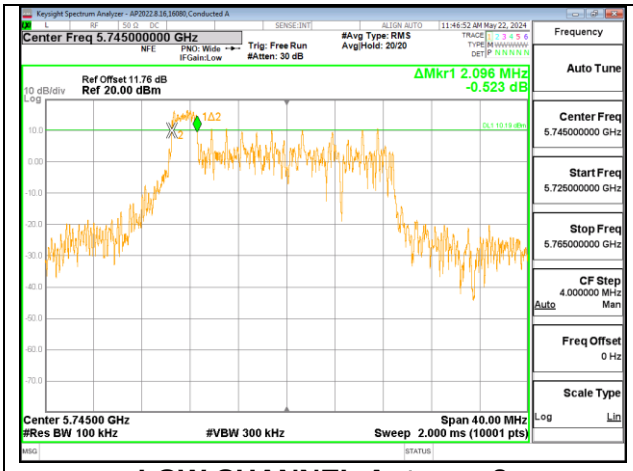
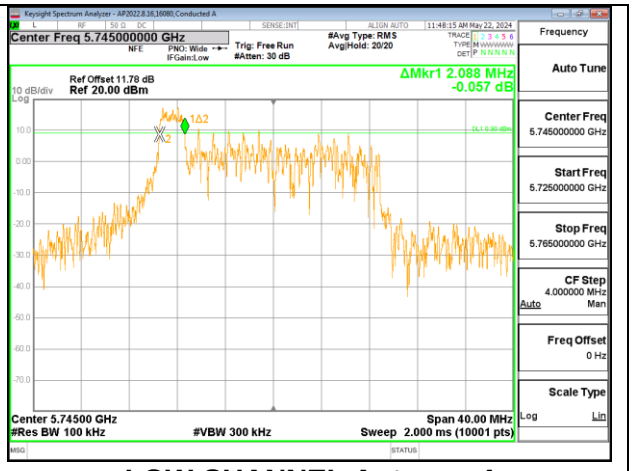
2TX Antenna 2 + Antenna 4 CDD OFDMA MODE: 26-Tones, RU Index 0

Channel	Frequency (MHz)	6 dB BW Antenna 2 (MHz)	6 dB BW Antenna 4 (MHz)	Minimum Limit (MHz)
Low	5745	2.096	2.088	0.5

LOW CHANNEL



LOW CHANNEL Antenna 2

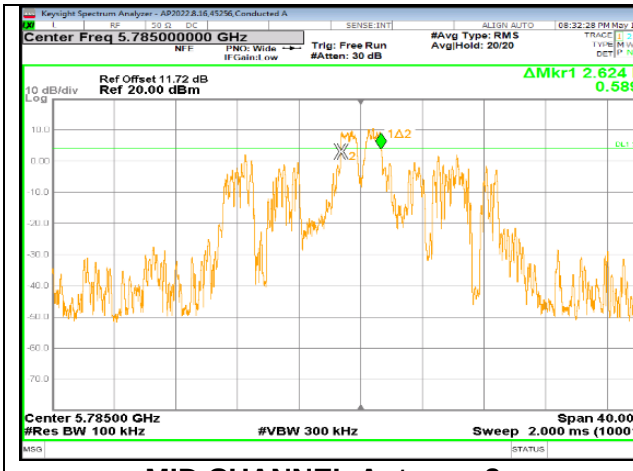


LOW CHANNEL Antenna 4

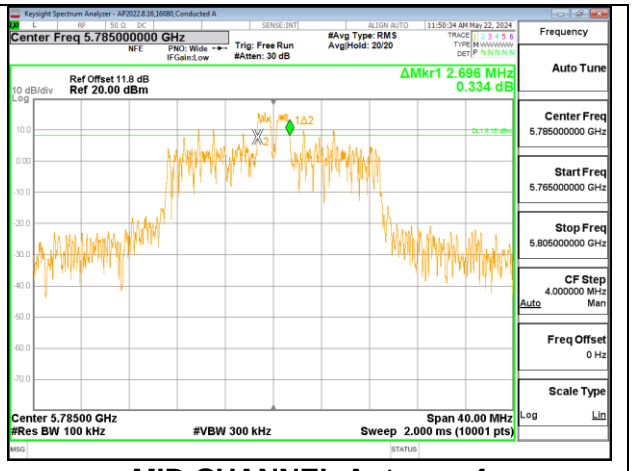
2TX Antenna 2 + Antenna 4 CDD OFDMA MODE: 26-Tones, RU Index 4

Channel	Frequency (MHz)	6 dB BW Antenna 2 (MHz)	6 dB BW Antenna 4 (MHz)	Minimum Limit (MHz)
Mid	5785	2.624	2.696	0.5

MID CHANNEL



MID CHANNEL Antenna 2

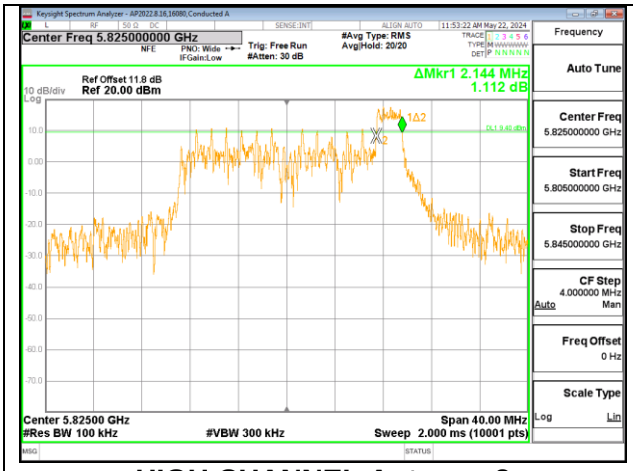


MID CHANNEL Antenna 4

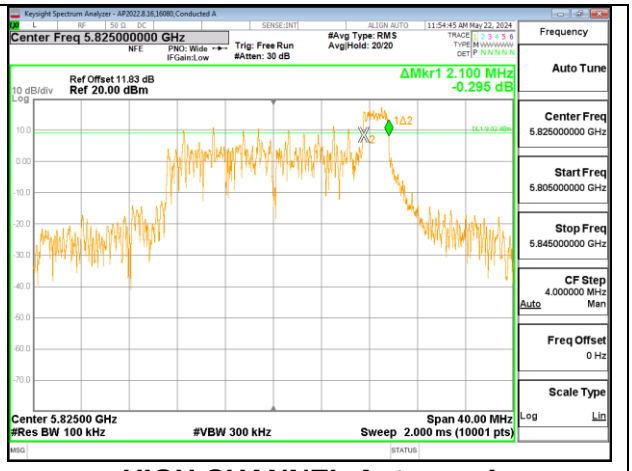
2TX Antenna 2 + Antenna 4 CDD OFDMA MODE: 26-Tones, RU Index 8

Channel	Frequency (MHz)	6 dB BW Antenna 2 (MHz)	6 dB BW Antenna 4 (MHz)	Minimum Limit (MHz)
High	5825	2.144	2.100	0.5

HIGH CHANNEL



HIGH CHANNEL Antenna 2

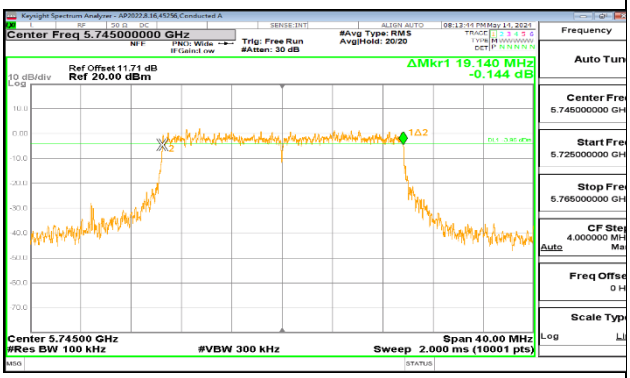


HIGH CHANNEL Antenna 4

2TX Antenna 2 + Antenna 4 CDD OFDMA MODE: SU (Single User)

Channel	Frequency (MHz)	6 dB BW Antenna 2 (MHz)	6 dB BW Antenna 4 (MHz)	Minimum Limit (MHz)
Low	5745	19.140	19.084	0.5
Mid	5785	19.068	19.072	0.5
High	5825	19.068	19.016	0.5

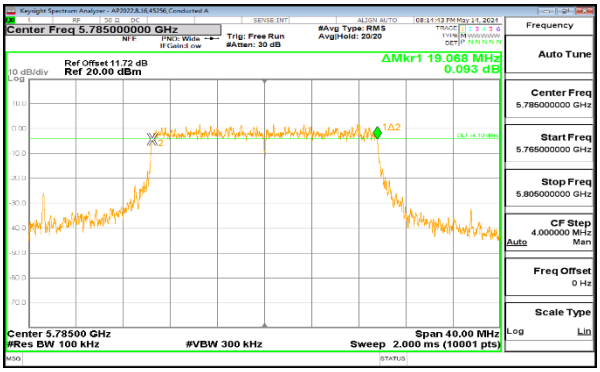
LOW CHANNEL



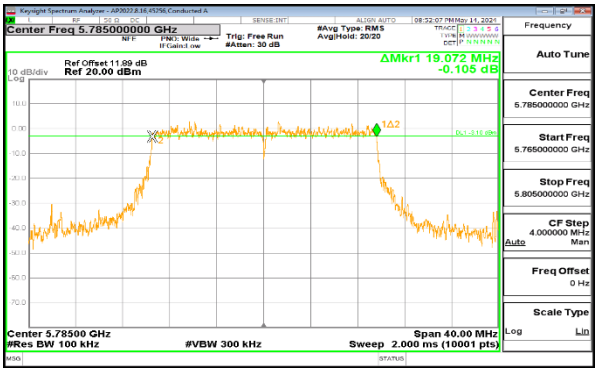
LOW CHANNEL Antenna 2

LOW CHANNEL Antenna 4

MID CHANNEL

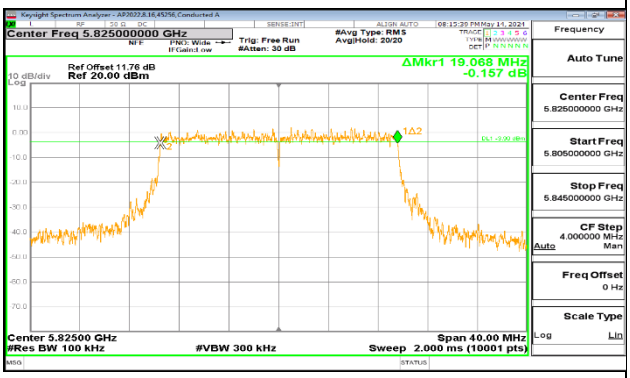


MID CHANNEL Antenna 2

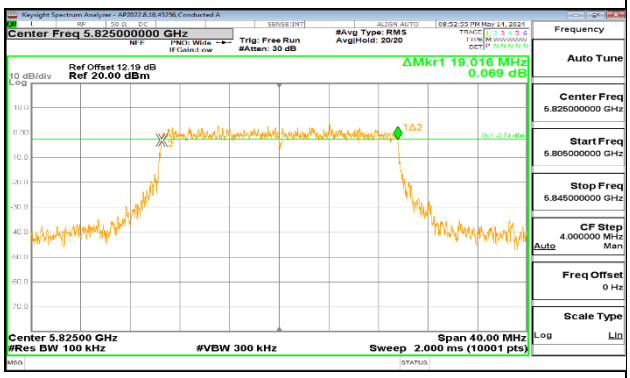


MID CHANNEL Antenna 4

HIGH CHANNEL



HIGH CHANNEL Antenna 2



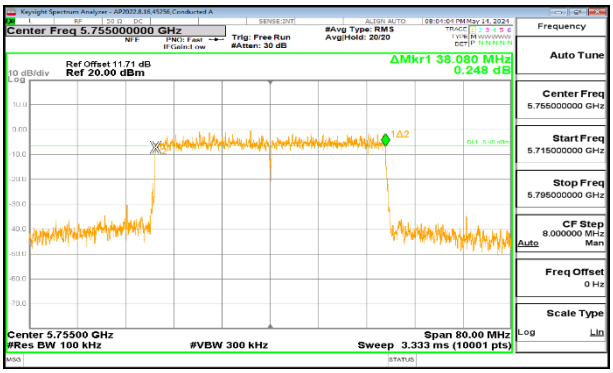
HIGH CHANNEL Antenna 4

9.4.2. 802.11ax HE40 MODE 2TX IN THE 5.8GHz BAND

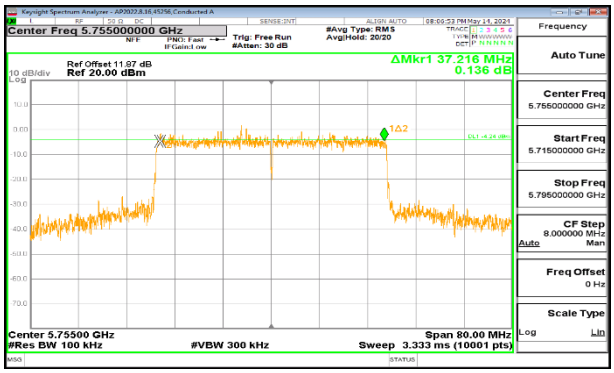
2TX Antenna 2 + Antenna 4 CDD OFDMA MODE: SU (Single User)

Channel	Frequency (MHz)	6 dB BW Antenna 2 (MHz)	6 dB BW Antenna 4 (MHz)	Minimum Limit (MHz)
Low	5755	38.080	37.216	0.5
High	5795	37.888	38.112	0.5

LOW CHANNEL

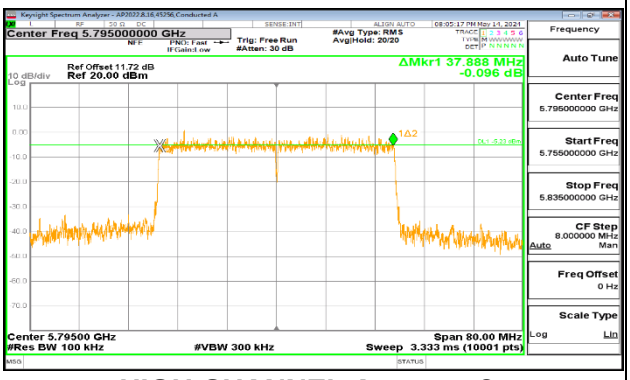


LOW CHANNEL Antenna 2

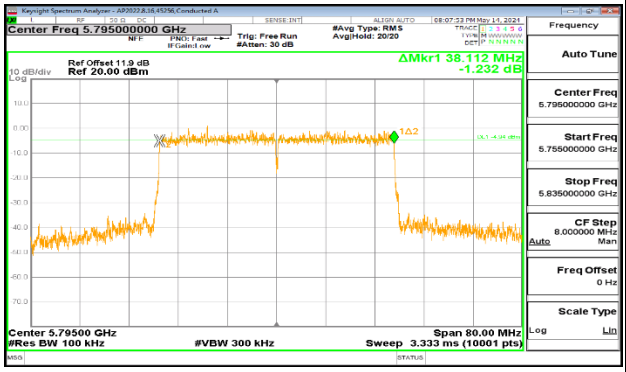


LOW CHANNEL Antenna 4

HIGH CHANNEL



HIGH CHANNEL Antenna 2



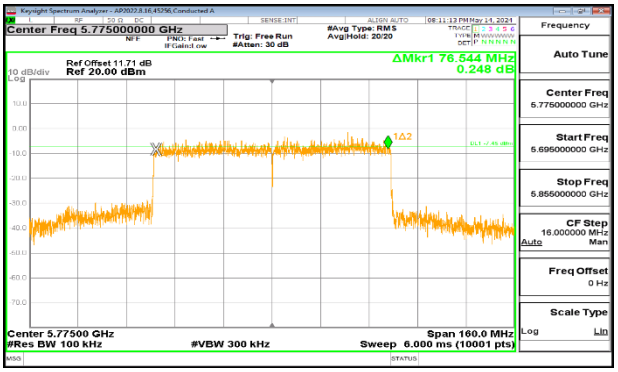
HIGH CHANNEL Antenna 4

9.4.3. 802.11ax HE80 MODE 2TX IN THE 5.8GHz BAND

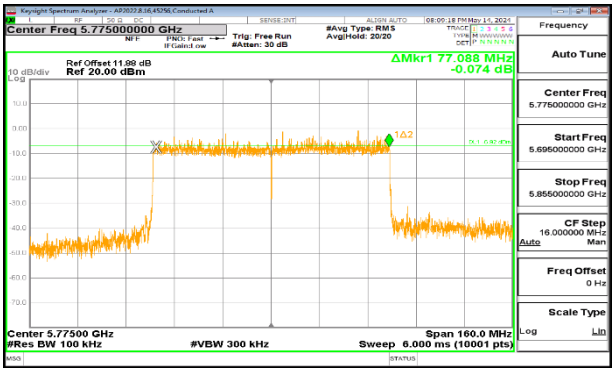
2TX Antenna 2 + Antenna 4 CDD OFDMA MODE: SU (Single User)

Channel	Frequency (MHz)	6 dB BW Antenna 2 (MHz)	6 dB BW Antenna 4 (MHz)	Minimum Limit (MHz)
Mid	5775	76.544	77.088	0.5

MID CHANNEL



MID CHANNEL Antenna 2



MID CHANNEL Antenna 4

9.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz
(iv) For mobile and portable 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.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz
(2)The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 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.

Band 5.725-5.85 GHz
(3)(i)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 30 dBm 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.

UL VERIFICATION SERVICES
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

RSS-247

Band 5.15-5.25 GHz
The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log10B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz
The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB beLOW CHANNEL the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz
The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB beLOW CHANNEL the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz
The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm 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 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 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.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-1) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

DIRECTIONAL ANTENNA GAIN

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

NOTE: ANT1 and ANT3 was the worst case in the 5.2GHz, 5.3GHz, & 5.6GHz bands.
ANT2 and ANT4 was the worst case in the 5.8GHz band.

Antenna 1 and Antenna 3:

Band (GHz)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	6.10	9.10
5.3	6.00	9.00
5.6	6.10	8.70

Antenna 2 and Antenna 4:

Band (GHz)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.8	5.80	8.00

RESULTS

9.5.1. 802.11ax HE20 MODE 2TX IN THE 5.2GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	18.2440	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	23.90	22.61	16.51	16.51	7.90	10.00	0.90

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PSD**

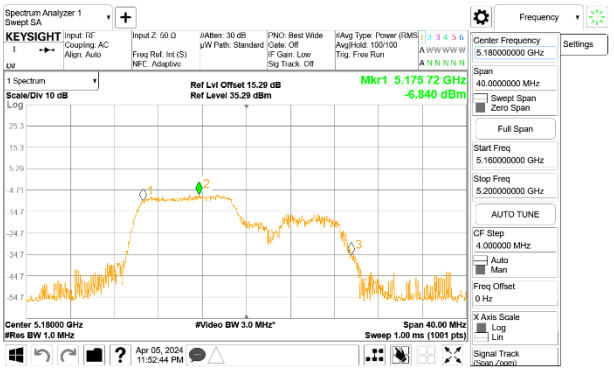
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	6.34	6.23	9.30	16.51	-7.22

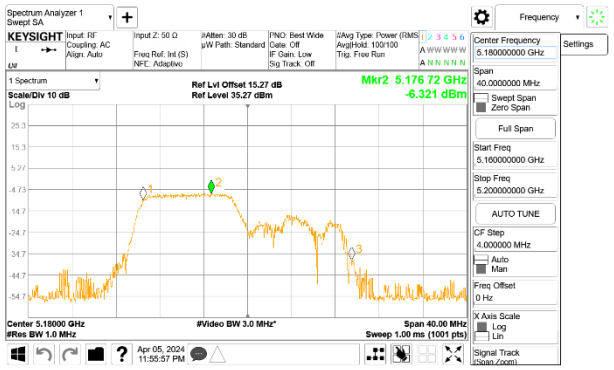
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	-6.84	-6.32	0.22	0.90	-0.68

LOW CHANNEL



LOW CHANNEL Antenna 1



LOW CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5200	18.2250	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Mid	5200	23.90	22.61	16.51	16.51	7.90	10.00	0.90

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PSD**

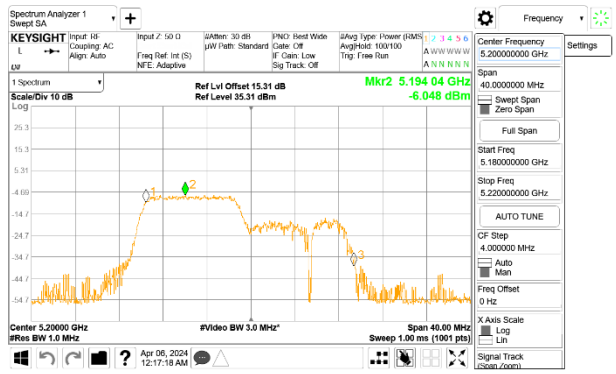
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5200	5.47	5.62	8.56	16.51	-7.95

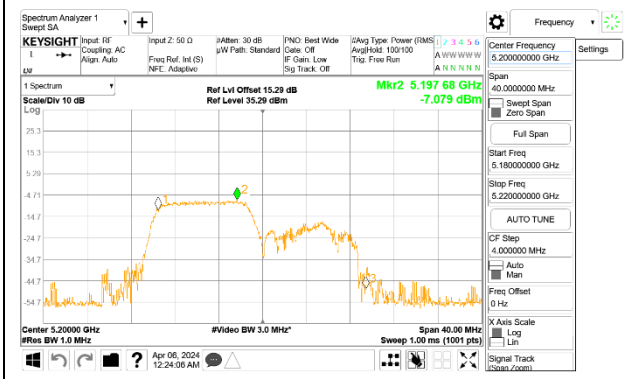
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5200	-6.05	-7.08	0.26	0.90	-0.64

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5240	18.1370	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
High	5240	23.90	22.59	16.49	16.49	7.90	10.00	0.90

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PSD**

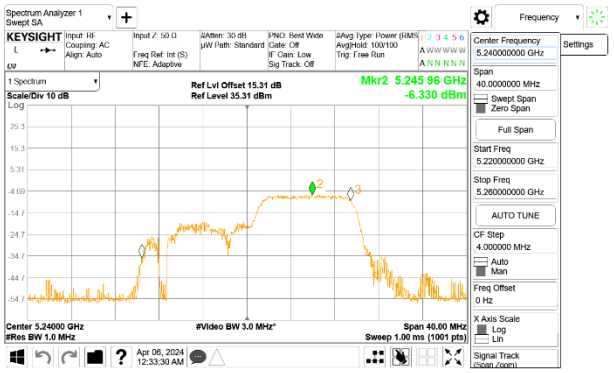
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5240	4.02	3.81	6.93	16.49	-9.56

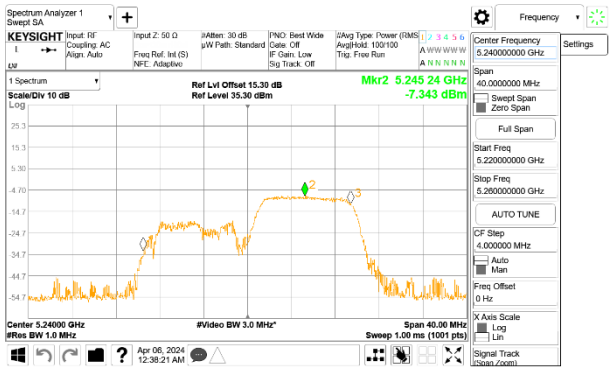
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
High	5240	-6.33	-7.34	-0.02	0.90	-0.92

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	18.1230	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	23.90	22.58	16.48	16.48	7.90	10.00	0.90

Duty Cycle CF (dB)	1.11	**Included in Calculations of Corr'd PSD**

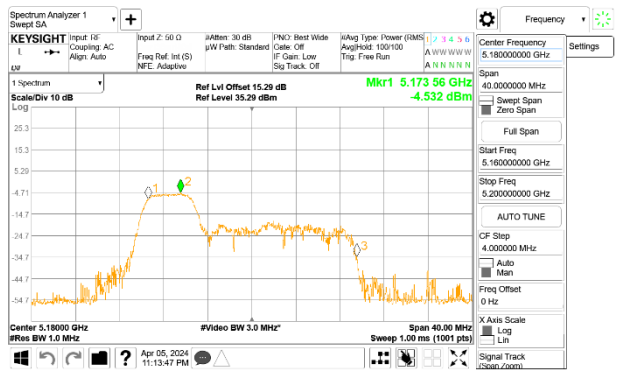
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	3.87	4.59	7.26	16.48	-9.23

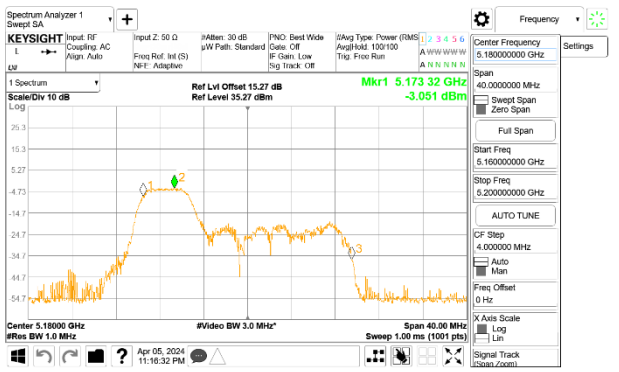
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	-4.53	-3.05	0.39	0.90	-0.51

LOW CHANNEL



LOW CHANNEL Antenna 1



LOW CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5200	17.1210	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Mid	5200	23.90	22.34	16.24	16.24	7.90	10.00	0.90

Duty Cycle CF (dB)	1.11	**Included in Calculations of Corr'd PSD**

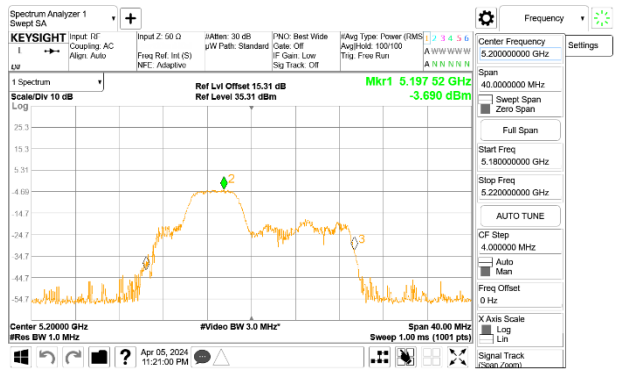
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5200	3.61	3.75	6.69	16.24	-9.54

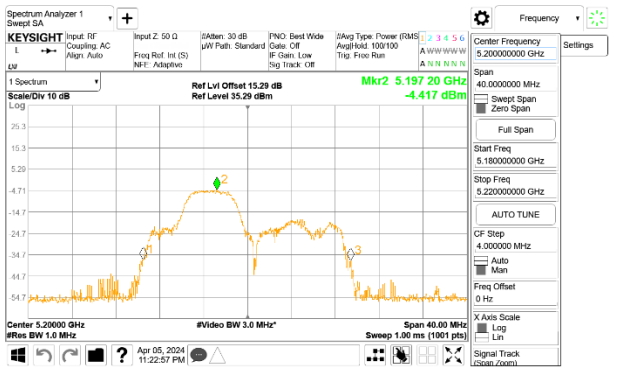
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5200	-3.69	-4.42	0.08	0.90	-0.82

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5240	18.3580	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
High	5240	23.90	22.64	16.54	16.54	7.90	10.00	0.90

Duty Cycle CF (dB)	1.11	**Included in Calculations of Corr'd PSD**

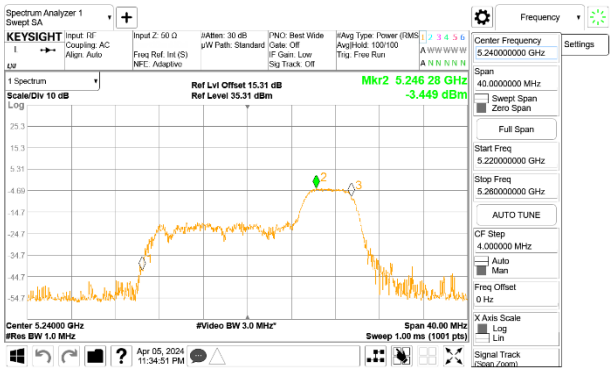
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5240	3.55	3.23	6.40	16.54	-10.14

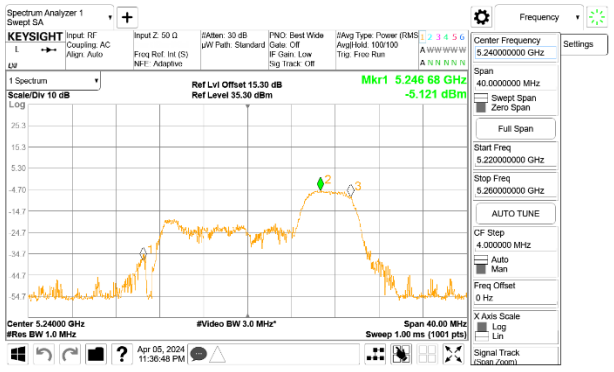
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
High	5240	-3.45	-5.12	-0.08	0.90	-0.98

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	18.3250	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	23.90	22.63	16.53	16.53	7.90	10.00	0.90

Duty Cycle CF (dB)	3.10	**Included in Calculations of Corr'd PSD**

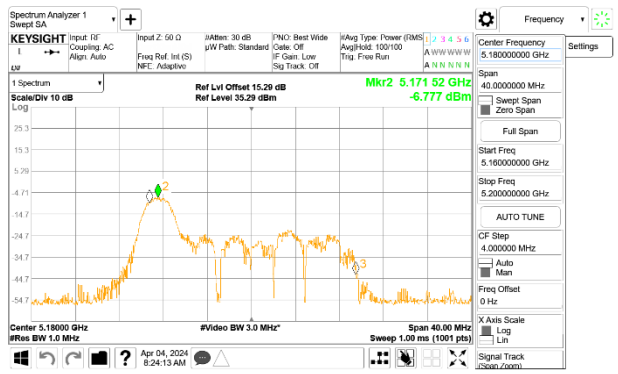
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	-0.14	0.15	3.02	16.53	-13.51

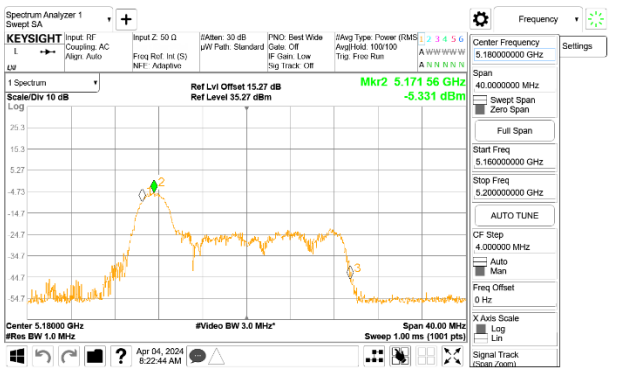
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	-6.78	-5.33	0.12	0.90	-0.78

LOW CHANNEL



LOW CHANNEL Antenna 1



LOW CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5200	17.0380	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Mid	5200	23.90	22.31	16.21	16.21	7.90	10.00	0.90

Duty Cycle CF (dB)	3.10	**Included in Calculations of Corr'd PSD**

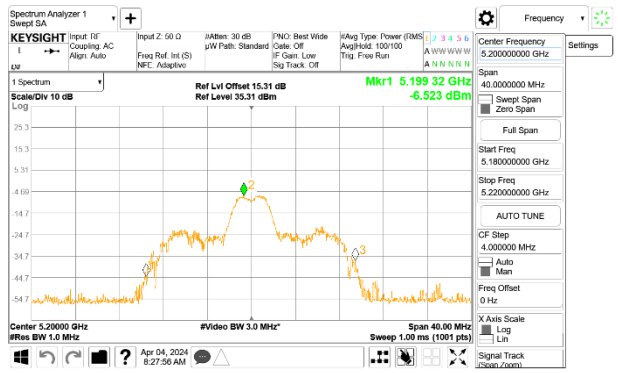
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5200	0.62	0.73	3.69	16.21	-12.53

PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5200	-6.52	-5.53	0.11	0.90	-0.79

MID CHANNEL



MID CHANNEL Antenna 1

MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5240	18.6950	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
High	5240	23.90	22.72	16.62	16.62	7.90	10.00	0.90

Duty Cycle CF (dB)	3.10	**Included in Calculations of Corr'd PSD**

Output Power Results

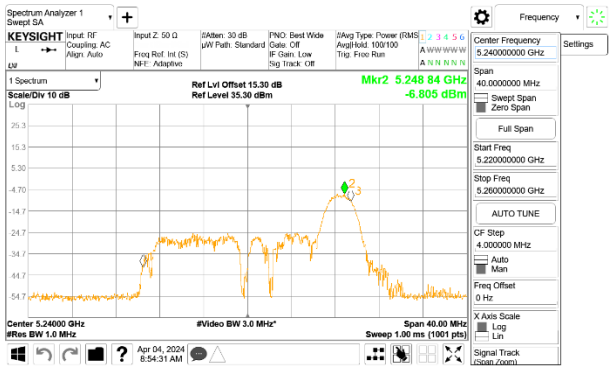
Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5240	-1.94	-1.55	1.27	16.62	-15.35

PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
High	5240	-5.74	-6.81	-0.13	0.90	-1.03

HIGH CHANNEL

HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD MODE: SU (Single User)

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	18.9170	6.10	9.10
Mid	5200	18.9340	6.10	9.10
High	5240	18.8940	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	23.90	22.77	16.67	16.67	7.90	10.00	0.90
Mid	5200	23.90	22.77	16.67	16.67	7.90	10.00	0.90
High	5240	23.90	22.76	16.66	16.66	7.90	10.00	0.90

Duty Cycle CF (dB)	0.74	**Included in Calculations of Corr'd PSD**

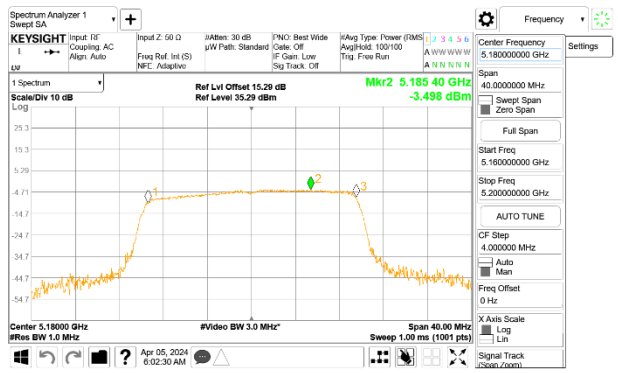
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	7.95	8.15	11.06	16.67	-5.61
Mid	5200	7.79	8.07	10.94	16.67	-5.73
High	5240	8.41	8.13	11.28	16.66	-5.38

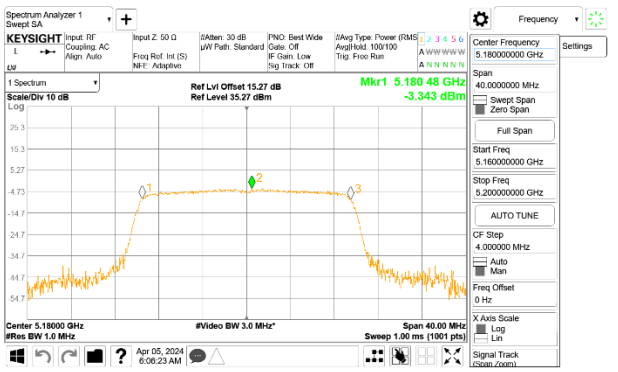
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/1MHz)	Antenna 3 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	-3.50	-3.34	0.33	0.90	-0.57
Mid	5200	-3.73	-3.85	-0.04	0.90	-0.94
High	5240	-3.43	-3.43	0.32	0.90	-0.58

LOW CHANNEL

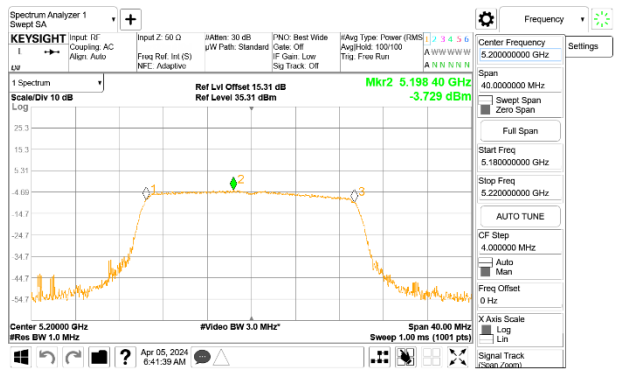


LOW CHANNEL Antenna 1

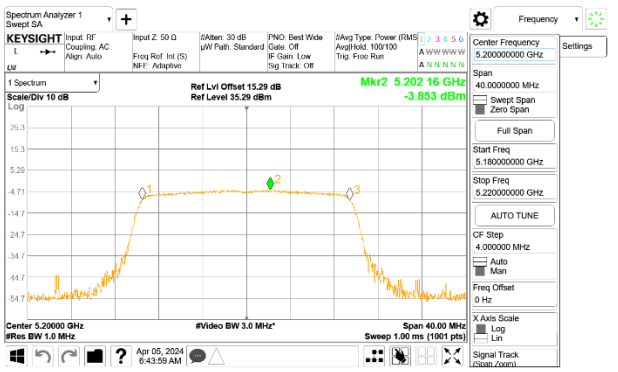


LOW CHANNEL Antenna 3

MID CHANNEL

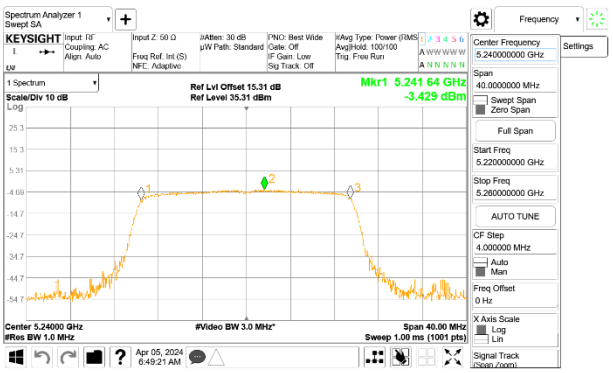


MID CHANNEL Antenna 1

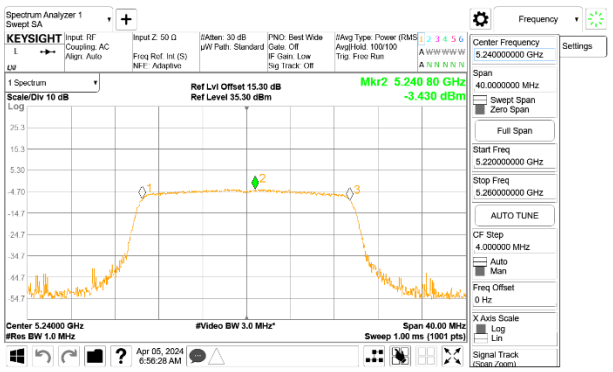


MID CHANNEL Antenna 3

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

9.5.2. 802.11ax HE40 MODE 2TX IN THE 5.2GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: SU (Single User)

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5190	37.5030	6.10	9.10
High	5230	37.5220	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	23.90	23.00	16.90	16.90	7.90	10.00	0.90
High	5230	23.90	23.00	16.90	16.90	7.90	10.00	0.90

Duty Cycle CF (dB)	1.32	**Included in Calculations of Corr'd Power & PSD**

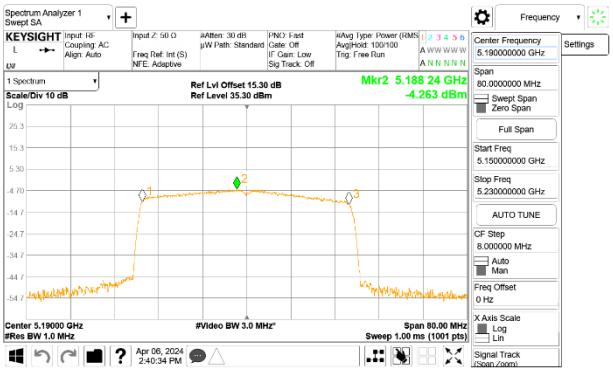
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	9.84	10.37	13.12	16.90	-3.78
High	5230	10.41	10.76	13.60	16.90	-3.30

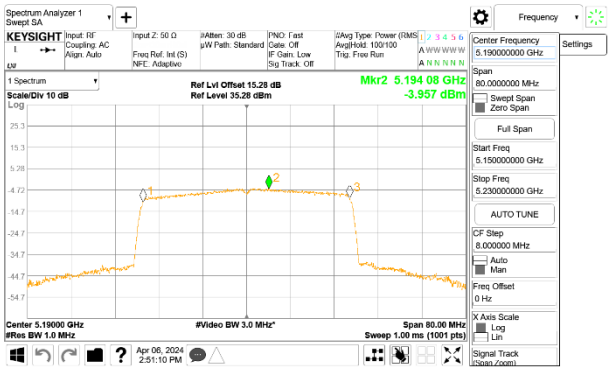
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-4.26	-3.96	0.22	0.90	-0.68
High	5230	-4.40	-3.48	0.42	0.90	-0.48

LOW CHANNEL

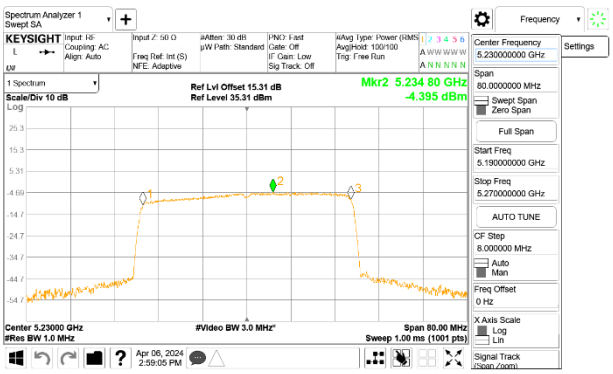


LOW CHANNEL Antenna 1

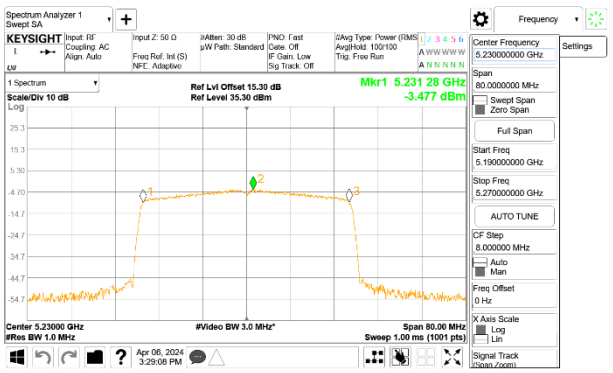


LOW CHANNEL Antenna 3

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

9.5.3. 802.11ax HE80 MODE 2TX IN THE 5.2GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: SU (Single User)

Test Engineer:	ZS 16080
Test Date:	2024-04-05 - 2024-04-06

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5210	76.9030	6.10	9.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	23.90	23.00	16.90	16.90	7.90	10.00	0.90

Duty Cycle CF (dB)	2.38	**Included in Calculations of Corr'd Power & PSD**

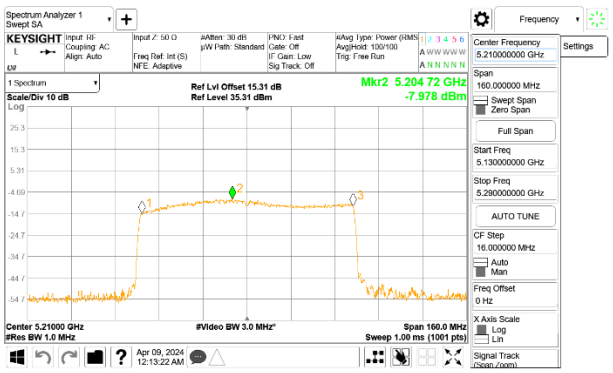
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	10.64	11.02	13.84	16.90	-3.06

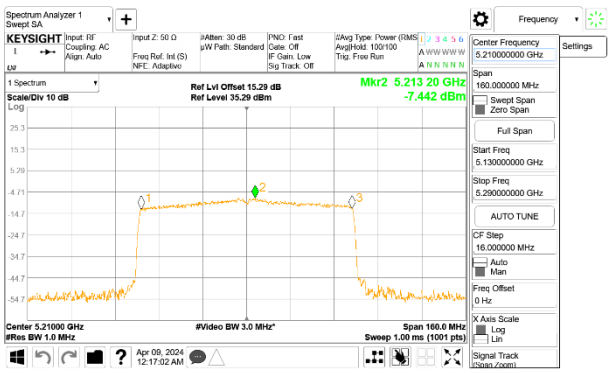
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-7.98	-7.44	-2.31	0.90	-3.21

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

9.5.4. 802.11ax HE20 MODE 2TX IN THE 5.3GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	19.52	18.065	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	23.90	23.57	29.57	23.57	8.00	11.00	8.00

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PPSD**

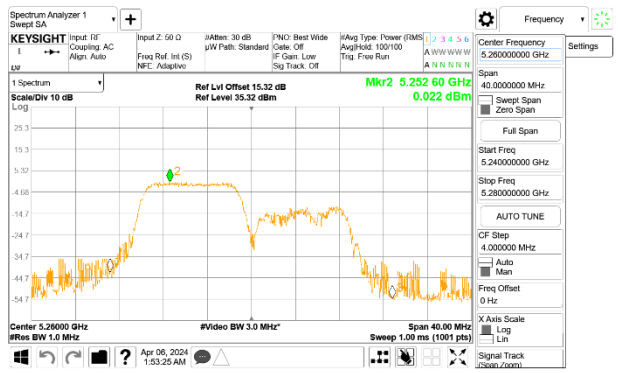
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.72	12.16	14.96	23.57	-8.61

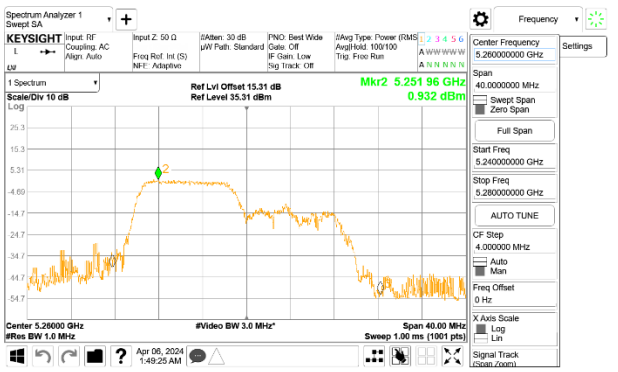
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Low	5260	0.022	0.932	7.29	8.00	-0.71

LOW CHANNEL



LOW CHANNEL Antenna 1



LOW CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5300	19.56	18.195	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5300	23.91	23.60	29.60	23.60	8.00	11.00	8.00

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PPSD**

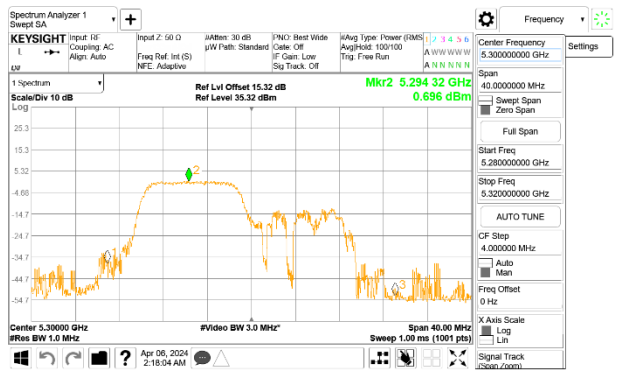
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5300	11.66	11.82	14.75	23.60	-8.85

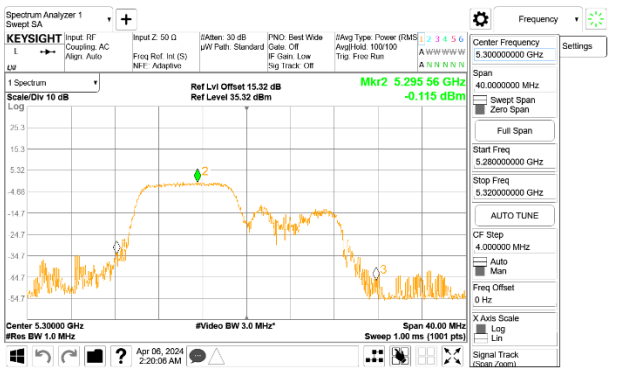
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Mid	5300	0.696	-0.115	7.10	8.00	-0.90

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
High	5320	20.40	18.188	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5320	24.00	23.60	29.60	23.60	8.00	11.00	8.00

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PPSD**

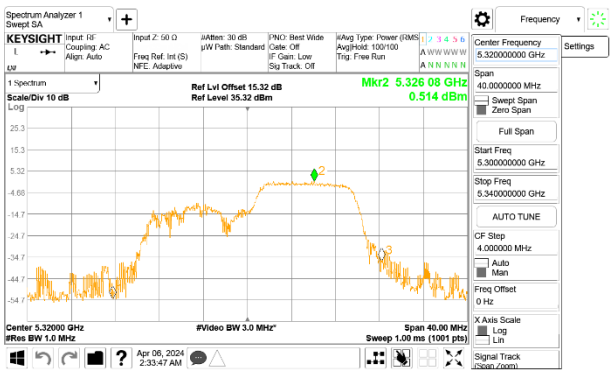
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5320	12.31	11.32	14.85	23.60	-8.74

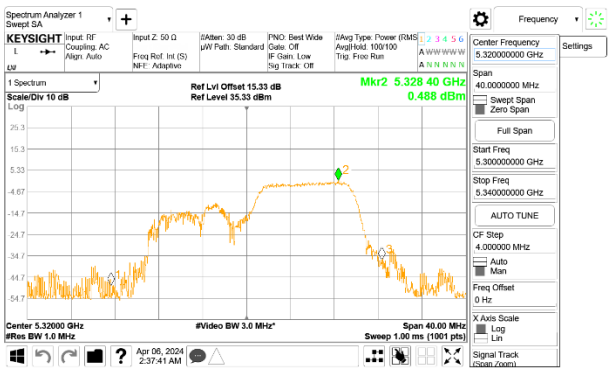
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
High	5320	0.514	0.488	7.29	8.00	-0.71

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	20.52	18.179	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	24.00	23.60	29.60	23.60	8.00	11.00	8.00

Duty Cycle CF (dB)	1.11	**Included in Calculations of Corr'd PPSD**

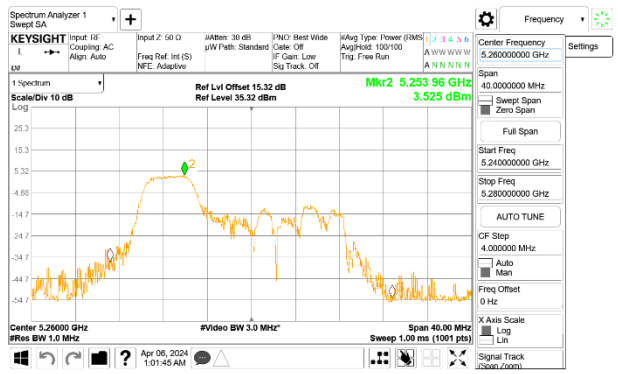
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	10.72	10.26	13.51	23.60	-10.09

PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Low	5260	3.525	3.055	7.42	8.00	-0.58

LOW CHANNEL



LOW CHANNEL Antenna 1

LOW CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5300	18.48	17.065	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5300	23.67	23.32	29.32	23.32	8.00	11.00	8.00

Duty Cycle CF (dB)	1.11	**Included in Calculations of Corr'd PPSD**

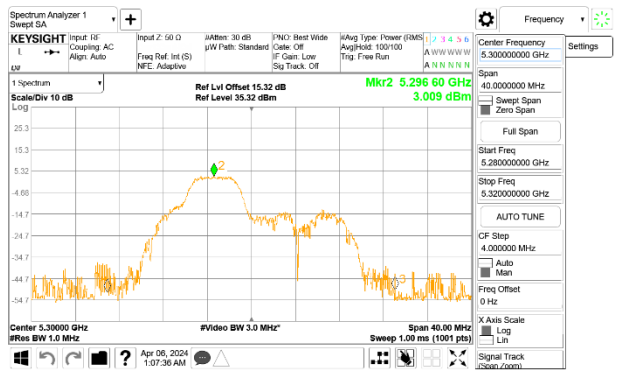
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5300	10.22	10.03	13.14	23.32	-10.18

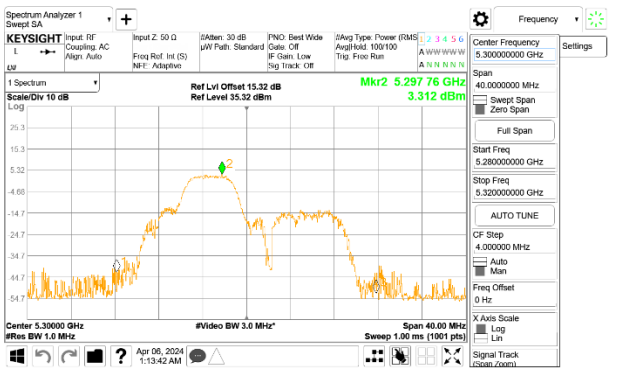
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Mid	5300	3.009	3.312	7.28	8.00	-0.72

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
High	5320	21.08	18.266	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5320	24.00	23.62	29.62	23.62	8.00	11.00	8.00

Duty Cycle CF (dB)	1.11	**Included in Calculations of Corr'd PPSD**

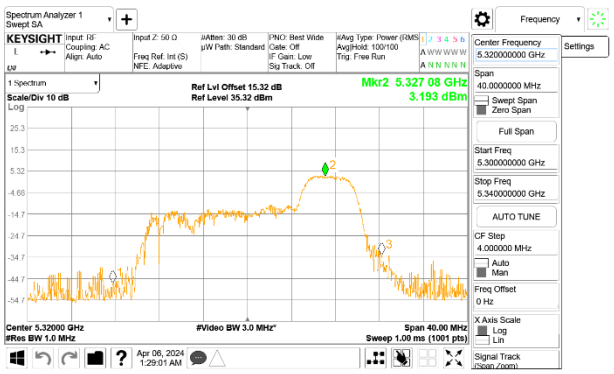
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5320	10.53	10.15	13.35	23.62	-10.26

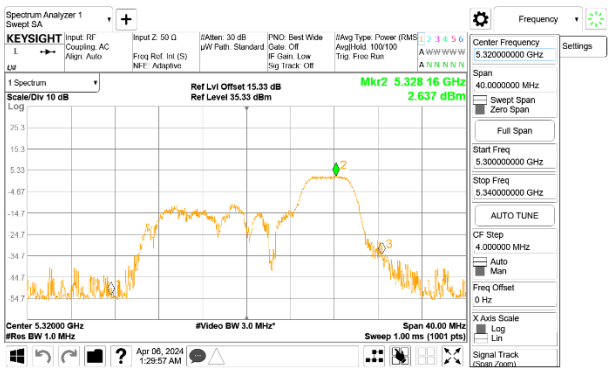
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
High	5320	3.193	2.637	7.04	8.00	-0.96

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	20.32	18.267	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	24.00	23.62	29.62	23.62	8.00	11.00	8.00

Duty Cycle CF (dB)	3.10	**Included in Calculations of Corr'd PPSD**

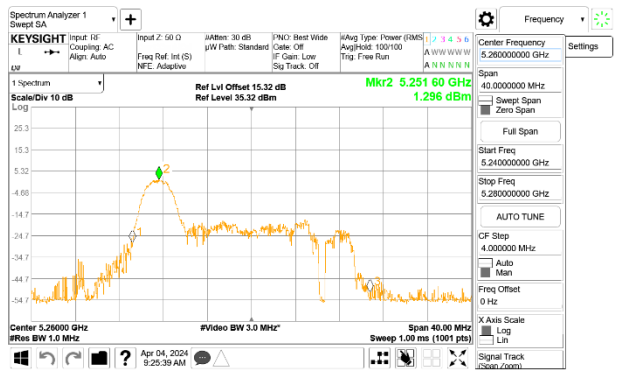
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	6.06	6.56	9.33	23.62	-14.29

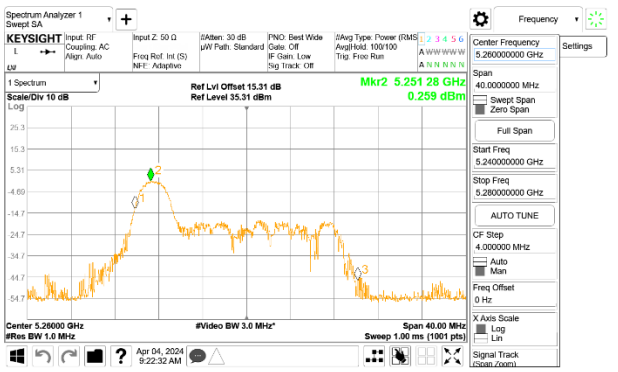
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Low	5260	1.296	0.259	6.92	8.00	-1.08

LOW CHANNEL



LOW CHANNEL Antenna 1



LOW CHANNEL Antenna 3

UL VERIFICATION SERVICES
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5300	18.20	17.105	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5300	23.60	23.33	29.33	23.33	8.00	11.00	8.00

Duty Cycle CF (dB)	3.10	**Included in Calculations of Corr'd PPSD**

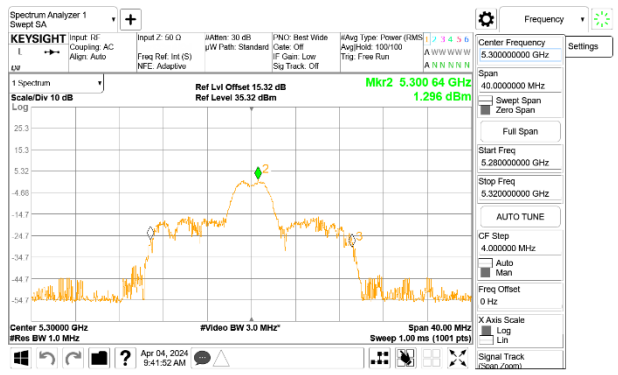
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5300	7.01	6.41	9.73	23.33	-13.60

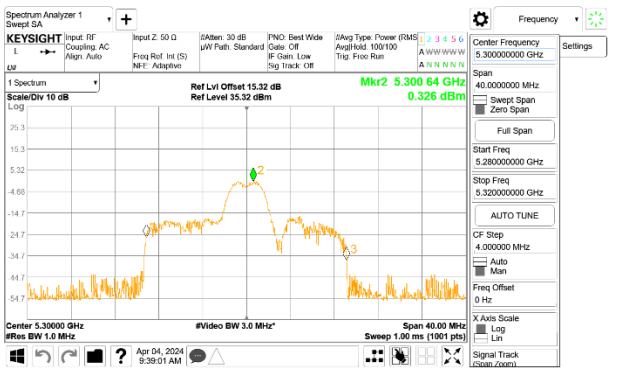
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Mid	5300	1.296	0.326	6.95	8.00	-1.05

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
High	5320	20.92	18.454	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
High	5320	24.00	23.66	29.66	23.66	8.00	11.00	8.00

Duty Cycle CF (dB)	3.10	**Included in Calculations of Corr'd PPSD**

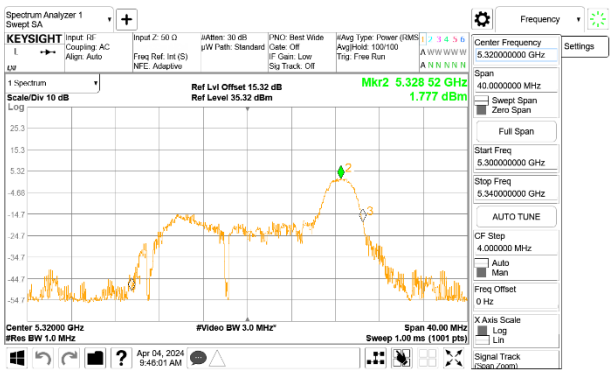
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5320	7.07	6.08	9.61	23.66	-14.05

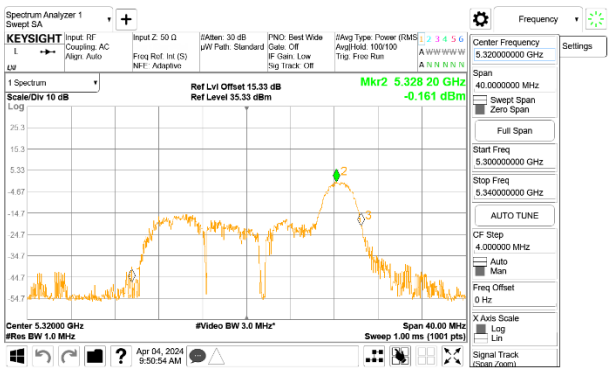
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
High	5320	1.777	-0.161	7.03	8.00	-0.97

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

UL VERIFICATION SERVICES
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: SU (Single User)

Test Engineer:	ZS 16080
Test Date:	2024-04-04 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	22.40	18.883	6.00	9.00
Mid	5300	22.12	18.942	6.00	9.00
High	5320	21.92	18.934	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	24.00	23.76	29.76	23.76	8.00	11.00	8.00
Mid	5300	24.00	23.77	29.77	23.77	8.00	11.00	8.00
High	5320	24.00	23.77	29.77	23.77	8.00	11.00	8.00

Duty Cycle CF (dB)	0.74	**Included in Calculations of Corr'd PPSD**

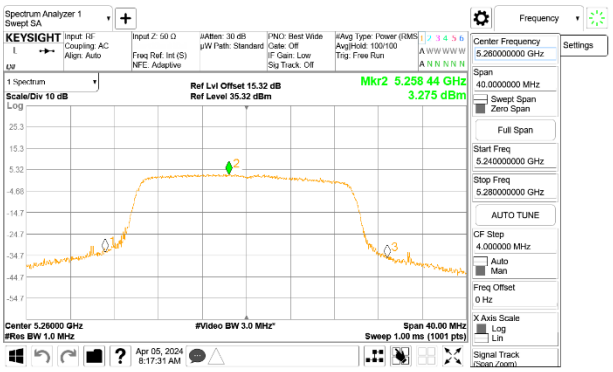
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	14.73	15.01	17.88	23.76	-5.88
Mid	5300	15.31	15.12	18.23	23.77	-5.55
High	5320	14.94	14.41	17.69	23.77	-6.08

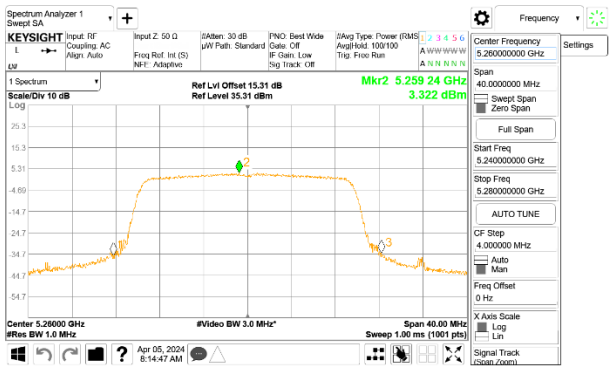
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Low	5260	3.275	3.322	7.05	8.00	-0.95
Mid	5300	3.886	3.368	7.39	8.00	-0.61
High	5320	3.291	3.157	6.97	8.00	-1.03

LOW CHANNEL

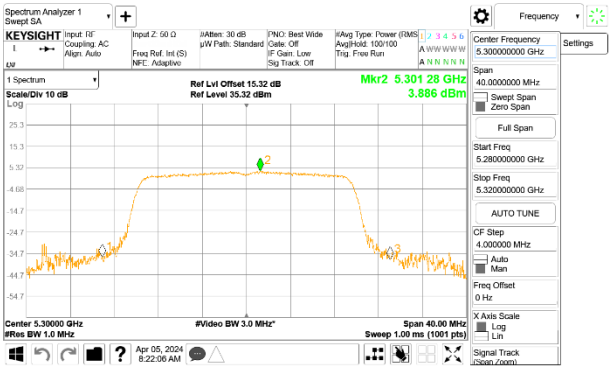


LOW CHANNEL Antenna 1

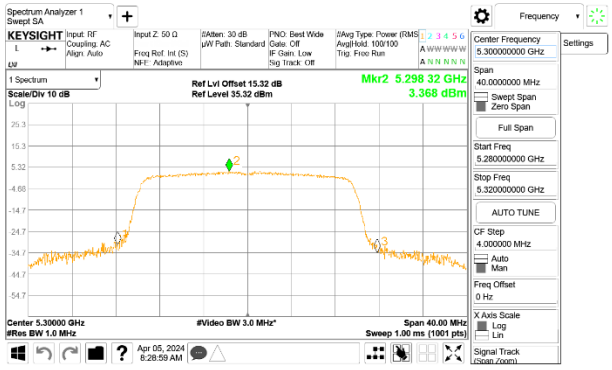


LOW CHANNEL Antenna 3

MID CHANNEL

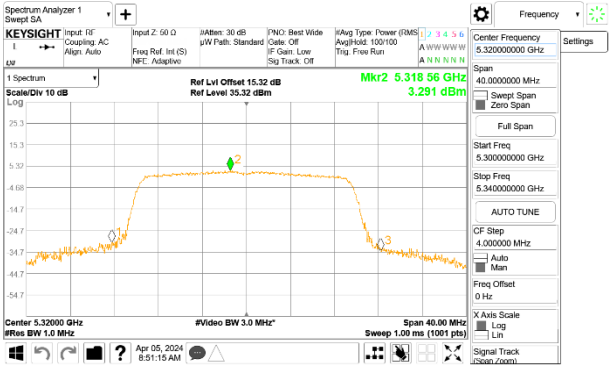


MID CHANNEL Antenna 1

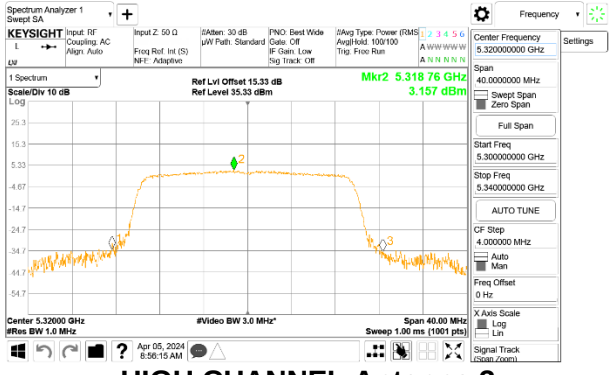


MID CHANNEL Antenna 3

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

UL VERIFICATION SERVICES
47173 Benicia Street, Fremont, CA 94538; USA TEL:(510) 319-4000 FAX:(510) 661-0888

9.5.5. 802.11ax HE40 MODE 2TX IN THE 5.3GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: SU (Single User)

Test Engineer:	ZS 16080
Test Date:	2024-04-04 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5270	40.24	37.522	6.00	9.00
High	5310	40.00	37.424	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5270	24.00	24.00	30.00	24.00	8.00	11.00	8.00
High	5310	24.00	24.00	30.00	24.00	8.00	11.00	8.00

Duty Cycle CF (dB)	1.32	**Included in Calculations of Corr'd PPSD**

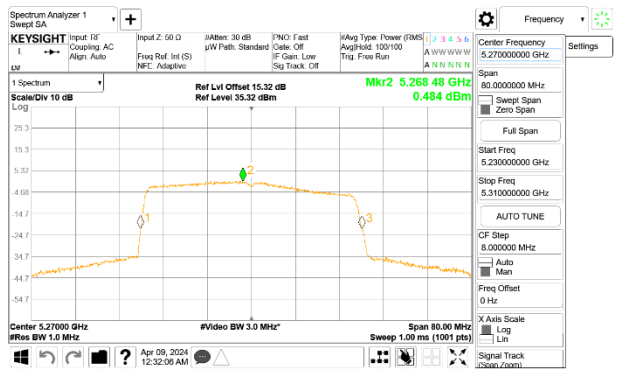
Output Power Results

Channel	Frequency (MHz)	Antenna Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	14.02	14.65	17.36	24.00	-6.64
High	5310	14.52	14.61	17.58	24.00	-6.42

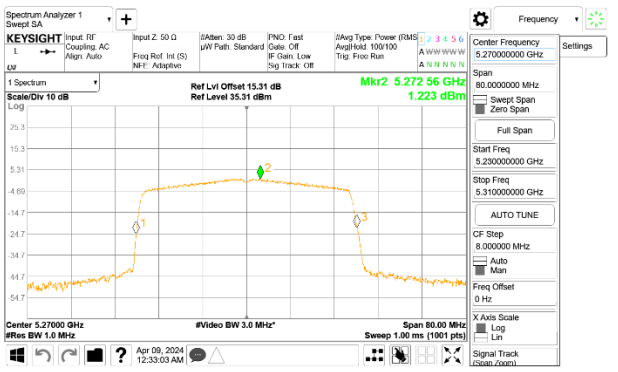
PPSD Results

Channel	Frequency (MHz)	Antenna Meas PPSD (dBm/	Antenna 3 Meas PPSD (dBm/	Total Corr'd PPSD (dBm/	PPSD Limit (dBm/	PPSD Margin (dB)
Low	5270	0.484	1.223	5.20	8.00	-2.80
High	5310	0.270	0.859	4.90	8.00	-3.10

LOW CHANNEL

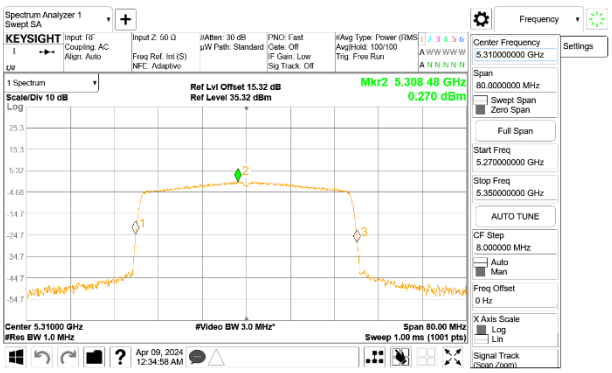


LOW CHANNEL Antenna 1

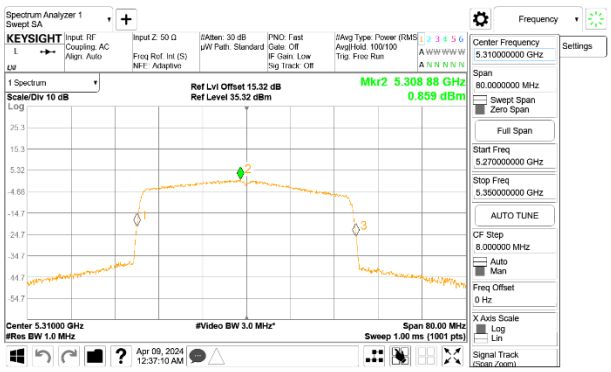


LOW CHANNEL Antenna 3

HIGH CHANNEL



HIGH CHANNEL Antenna 1



HIGH CHANNEL Antenna 3

9.5.6. 802.11ax HE80 MODE 2TX IN THE 5.3GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: SU (Single User)

Test Engineer:	ZS 16080
Test Date:	2024-04-04 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Mid	5290	81.60	76.778	6.00	9.00

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Mid	5290	24.00	24.00	30.00	24.00	8.00	11.00	8.00

Duty Cycle CF (dB)	2.38	**Included in Calculations of Corr'd PPSD**

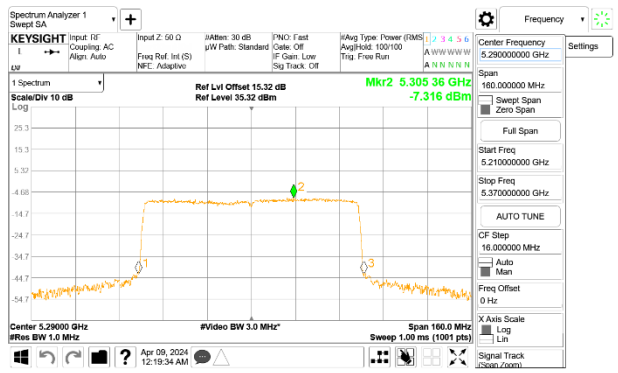
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	11.83	11.79	14.82	24.00	-9.18

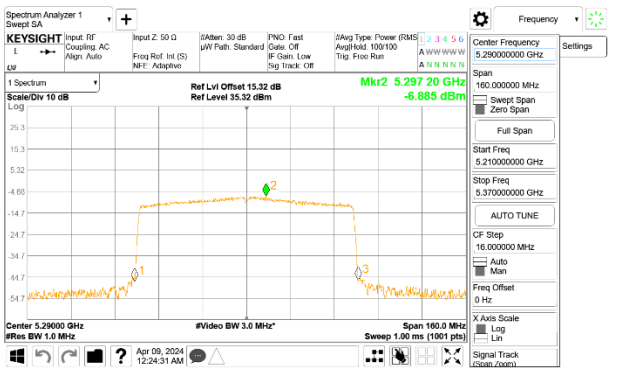
PPSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PPSD (dBm/ 1MHz)	Antenna 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Mid	5290	-7.316	-6.885	-1.70	8.00	-9.70

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

9.5.7. 802.11ax HE20 MODE 2TX IN THE 5.6GHz BAND (FCC+IC)

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	20.64	18.228	6.10	8.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	23.90	23.61	29.61	23.51	8.30	11.00	8.30

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PSD**

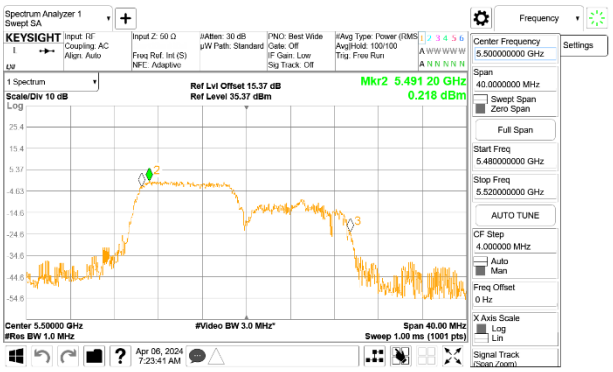
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.78	12.92	15.86	23.51	-7.65

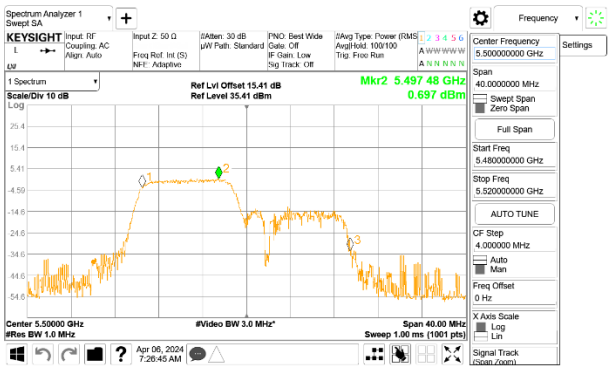
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	0.218	0.697	7.254	8.30	-1.05

LOW CHANNEL



LOW CHANNEL Antenna 1



LOW CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5580	20.56	18.149	6.10	8.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5580	23.90	23.59	29.59	23.49	8.30	11.00	8.30

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PSD**

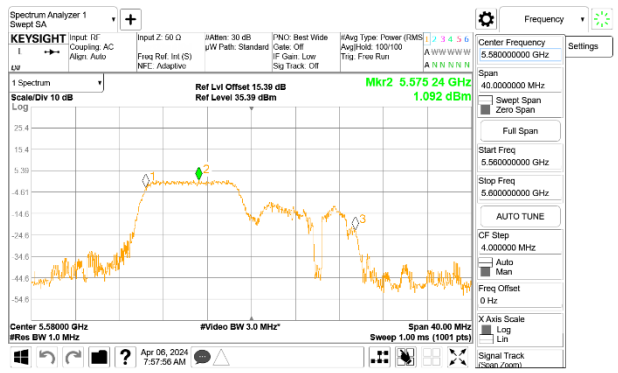
Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5580	12.97	13.02	16.01	23.49	-7.48

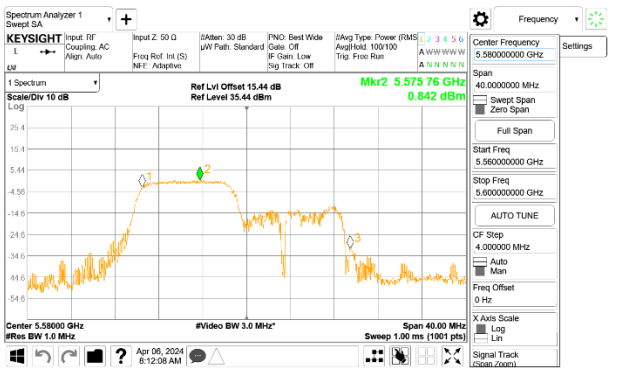
PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5580	1.092	0.842	7.759	8.30	-0.54

MID CHANNEL



MID CHANNEL Antenna 1



MID CHANNEL Antenna 3

2TX Antenna 1 + Antenna 3 CDD OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	ZS 16080
Test Date:	2024-04-03 - 2024-04-09

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
High	5700	20.80	18.265	6.10	8.70

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
High	5700	23.90	23.62	29.62	23.52	8.30	11.00	8.30

Duty Cycle CF (dB)	3.78	**Included in Calculations of Corr'd PSD**

Output Power Results

Channel	Frequency (MHz)	Antenna 1 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
High	5700	13.16	12.73	15.96	23.52	-7.56

PSD Results

Channel	Frequency (MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
High	5700	1.166	0.699	7.729	8.30	-0.57