

RF Exposure report



The following samples were submitted and identified on behalf of the client as:

Product Name Notebook Computer
Brand Name HP
Model No. HSN-I45C
Applicant HP Inc.
1501 Page Mill Road, Palo Alto CA 94304 USA
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID B94HNI45CPA
Date of EUT Receipt Dec. 22, 2022
Date of Test(s) Jan. 04, 2023 ~ Jan. 08, 2023
Date of Issue Mar. 02, 2023

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Afu Chen	Approved By / John Yeh

Date: Mar. 02, 2023

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2212000585EN	00	Initial creation of document	Feb. 20, 2023	Kimmy Chiou	*
TESA2212000585EN	01	Modify comment	Mar. 02, 2023	Kimmy Chiou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. WLAN module: AX211NGW measurements from module reports and worst-case measurements for SPLSR

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB941225D01v03r01

KDB941225D05v02r05

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1.2 Description of EUT

Product Name	Notebook Computer	
Brand Name	HP	
Model No.	HSN-I45C	
FCC ID	B94HNI45CPA	
Integrated WWAN Module	Brand Name: Fibocom Model Name: FB520	
Integrated WLAN Module	Brand Name : Intel® Wi-Fi 6E AX211 Model Name : AX211NGW	
Duty Cycle	GSM (DTM multi class B)	1/8.3
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	CAT.M1 FDD	30%
Supported radios (TX Frequency Range, MHz)	GSM850	824-849
	GSM1900	1850-1910
	CAT.M1 FDD Band 2	1850-1910
	CAT.M1 FDD Band 4	1710-1755
	CAT.M1 FDD Band 5	824-849
	CAT.M1 FDD Band 12	699-716
	CAT.M1 FDD Band 13	777-787
	CAT.M1 FDD Band 14	788-798
	CAT.M1 FDD Band 25	1850-1915
	CAT.M1 FDD Band 26	814-849
	CAT.M1 FDD Band 66	1710-1780
	CAT.M1 FDD Band 85	698-716

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1.3 Maximum value

Vendor 1

Equipment Class	Frequency Band		Highest SAR Summary	Highest Simultaneous Transmission 1g SAR (W/kg)
			Body (Separation 0mm)	
			1g SAR (W/kg)	
Licensed	GSM	GSM850	0.65	1.57
		GSM1900	0.49	
	LTE	LTE Band 2	0.27	
		LTE Band 4	0.19	
		LTE Band 5	0.44	
		LTE Band 12	0.41	
		LTE Band 13	0.46	
		LTE Band 14	0.46	
		LTE Band 25	0.36	
		LTE Band 26_FCC	0.40	
		LTE Band 66	0.21	
		LTE Band 85	0.38	

Vendor 2

Equipment Class	Frequency Band		Highest SAR Summary	Highest Simultaneous Transmission 1g SAR (W/kg)
			Body (Separation 0mm)	
			1g SAR (W/kg)	
Licensed	GSM	GSM850	1.15	1.57
		GSM1900	1.13	
	LTE	LTE Band 2	0.24	
		LTE Band 4	0.41	
		LTE Band 5	0.19	
		LTE Band 12	0.28	
		LTE Band 13	0.27	
		LTE Band 14	0.23	
		LTE Band 25	0.22	
		LTE Band 26_FCC	0.20	
		LTE Band 66	0.42	
		LTE Band 85	0.27	

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1.4 Antenna Information

Laptop mode

Vendor	Vendor 2				
Antenna	WWAN Tx5				
Part Number	6036B0314601(00-3302701050)				
Frequency(MHz)	698~716	777~798	814~849	1710~1780	1850~1915
Gain (dBi)	-0.63	1.24	-1.09	-0.84	-0.02
Note: Antenna information is provided by the applicant.					

Tablet mode

Vendor	Vendor 2				
Antenna	WWAN Tx5				
Part Number	6036B0314601(00-3302701050)				
Frequency(MHz)	698~716	777~798	814~849	1710~1780	1850~1915
Gain (dBi)	-3.00	-3.68	-4.58	-3.27	-2.53
Note: Antenna information is provided by the applicant.					

Laptop mode

Vendor	Vendor 1				
Antenna	WWAN Tx5				
Part Number	6036B0313901(81ELA215.G12)				
Frequency(MHz)	698~716	777~798	814~849	1710~1780	1850~1915
Gain (dBi)	1.29	0.38	-0.08	2.22	1.25
Note: Antenna information is provided by the applicant.					

Tablet mode

Vendor	Vendor 1				
Antenna	WWAN Tx5				
Part Number	6036B0313901(81ELA215.G12)				
Frequency(MHz)	698~716	777~798	814~849	1710~1780	1850~1915
Gain (dBi)	-3.25	0.84	-1.10	-1.45	-1.41
Note: Antenna information is provided by the applicant.					

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City, 11493, Taiwan.	SAR 2	TW0029	TW3702

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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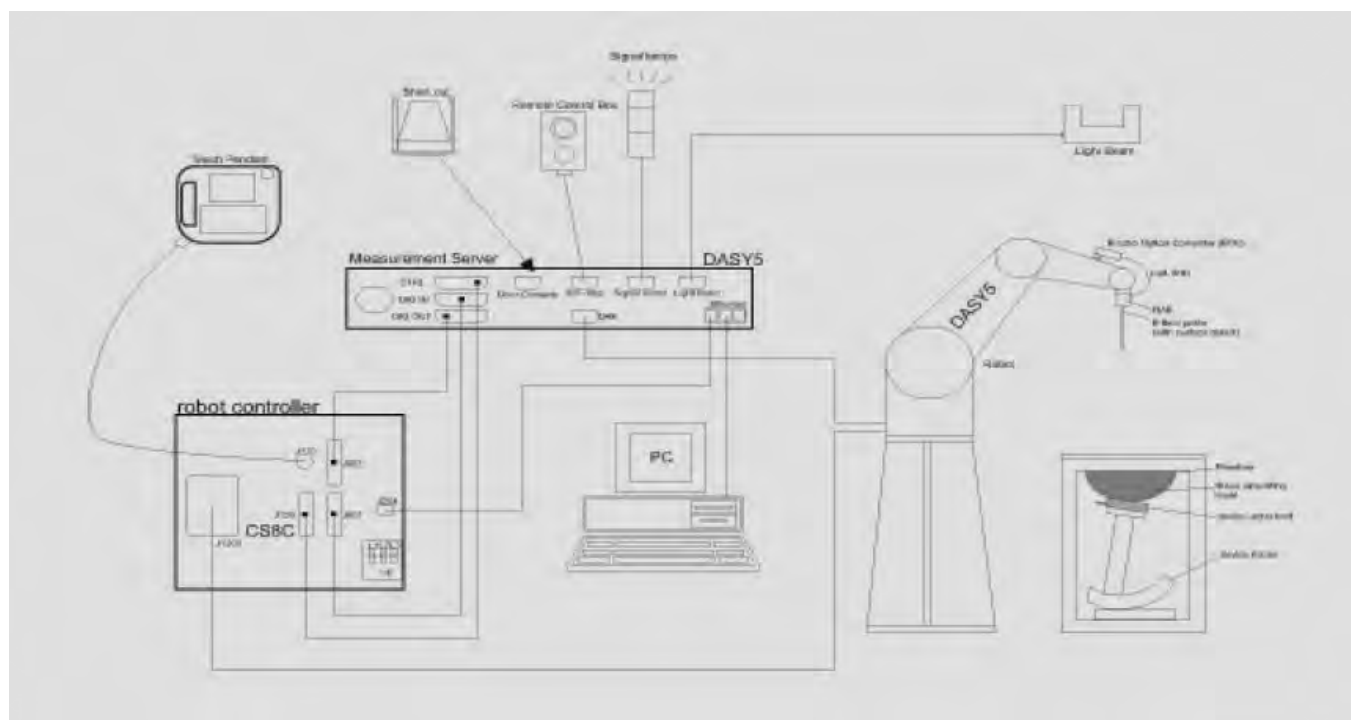
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2.2 SAR System

Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.



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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER (ELI)

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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3 AR SYSTEM VERIFICATION

3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

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3.3 Measurement results of Tissue Simulant Liquid

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Jan, 04. 2023	700.5	42.164	0.887	42.840	0.854	1.60%	-3.69%
		701.5	42.159	0.887	42.839	0.855	1.61%	-3.58%
		707	42.129	0.887	42.836	0.856	1.68%	-3.51%
		707.5	42.127	0.887	42.82	0.857	1.65%	-3.40%
		713.5	42.095	0.888	42.79	0.859	1.65%	-3.22%
		750	41.900	0.890	41.989	0.891	0.21%	0.11%
		779.5	41.761	0.893	41.893	0.908	0.32%	1.63%
		782	41.749	0.894	41.885	0.91	0.32%	1.82%
		784.5	41.738	0.894	41.877	0.917	0.33%	2.57%
		790.5	41.709	0.895	41.822	0.919	0.27%	2.71%
		793	41.698	0.895	41.792	0.922	0.23%	3.01%
		795.5	41.686	0.895	41.771	0.925	0.20%	3.31%
	Jan, 05. 2023	816.5	41.587	0.898	41.617	0.857	0.07%	-4.55%
		824.2	41.551	0.899	41.567	0.858	0.04%	-4.53%
		826.5	41.540	0.899	41.557	0.861	0.04%	-4.23%
		831.5	41.516	0.900	41.525	0.871	0.02%	-3.18%
		835	41.500	0.900	41.513	0.875	0.03%	-2.78%
		836.5	41.500	0.902	41.509	0.877	0.02%	-2.73%
		836.6	41.500	0.902	41.507	0.879	0.02%	-2.52%
		846.5	41.500	0.912	41.469	0.894	-0.07%	-2.02%
		848.8	41.500	0.915	41.461	0.898	-0.09%	-1.84%
	Jan, 07. 2023	1712.5	40.125	1.350	40.946	1.325	2.05%	-1.85%
		1732.5	40.096	1.361	40.925	1.336	2.07%	-1.87%
		1745	40.079	1.369	40.909	1.342	2.07%	-1.94%
		1750	40.071	1.371	40.89	1.355	2.04%	-1.20%
		1752.5	40.068	1.373	40.879	1.358	2.02%	-1.08%
		1777.5	40.032	1.387	40.827	1.366	1.99%	-1.52%
	Jan, 08. 2023	1850.2	40.000	1.400	40.722	1.403	1.81%	0.21%
		1852.5	40.000	1.400	40.721	1.415	1.80%	1.07%
		1880	40.000	1.400	40.701	1.419	1.75%	1.36%
		1882.5	40.000	1.400	40.697	1.425	1.74%	1.79%
		1900	40.000	1.400	40.686	1.432	1.72%	2.29%
		1907.5	40.000	1.400	40.677	1.436	1.69%	2.57%
		1909.8	40.000	1.400	40.675	1.439	1.69%	2.79%
		1912.5	40.000	1.400	40.672	1.441	1.68%	2.93%

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3.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

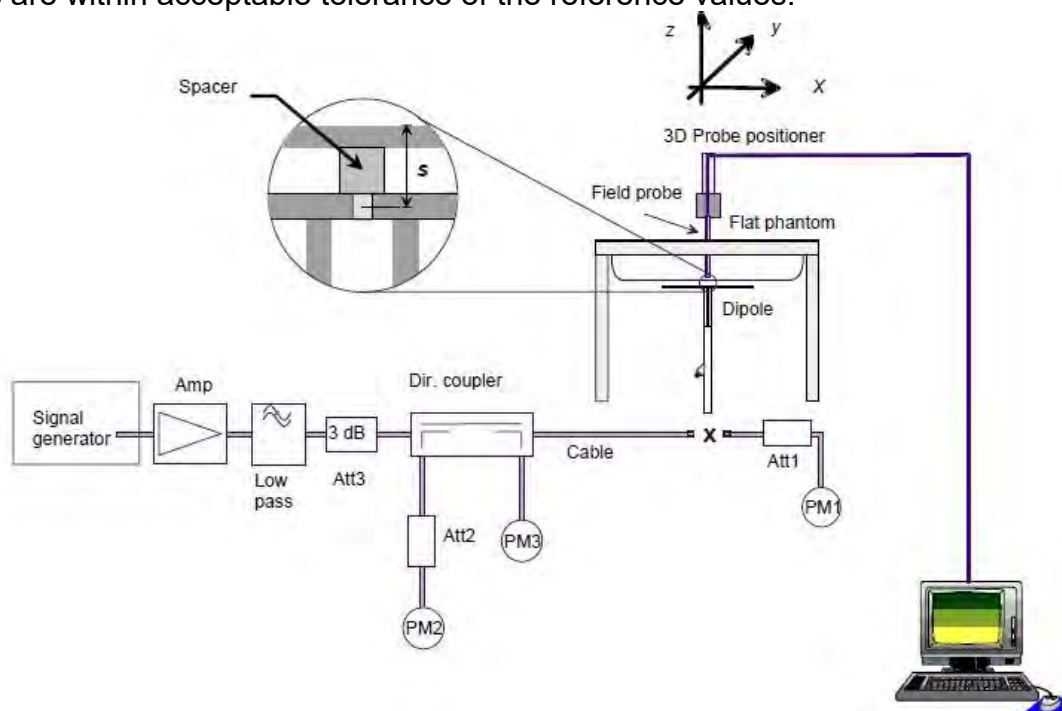
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values.

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	8.56	2.08	8.32	-2.80	± 10%	Jan.04,2023
D835V2	4d063	835	9.82	2.45	9.8	-0.20	± 10%	Jan.05,2023
D1750V2	1008	1750	36.4	8.79	35.16	-3.41	± 10%	Jan.07,2023
D1900V2	5d173	1900	39.6	9.82	39.28	-0.81	± 10%	Jan.08,2023

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4 TEST CONFIGURATIONS

4.1 Test Environment

Ambient Temperature: $22\pm 2^{\circ}\text{C}$

Tissue Simulating Liquid: $22\pm 2^{\circ}\text{C}$

4.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
 - **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
 - **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
 - **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is $\leq 0.8\text{ W/kg}$, when the transmission band is $\leq 100\text{ MHz}$.
 - **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8\text{ W/kg}$, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
 - **GSM:** SAR test reduction for GPRS/EDGE mode is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.
 - **LTE:** LTE modes test according to **KDB 941225D05v02r05**.
- a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is $\leq 0.8\text{ W/kg}$, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
 - When the reported SAR of a required test channel is $> 1.45\text{ W/kg}$, SAR is required for all three RB offset configurations for that required test channel.
- b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

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c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

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4.3 Test position

Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

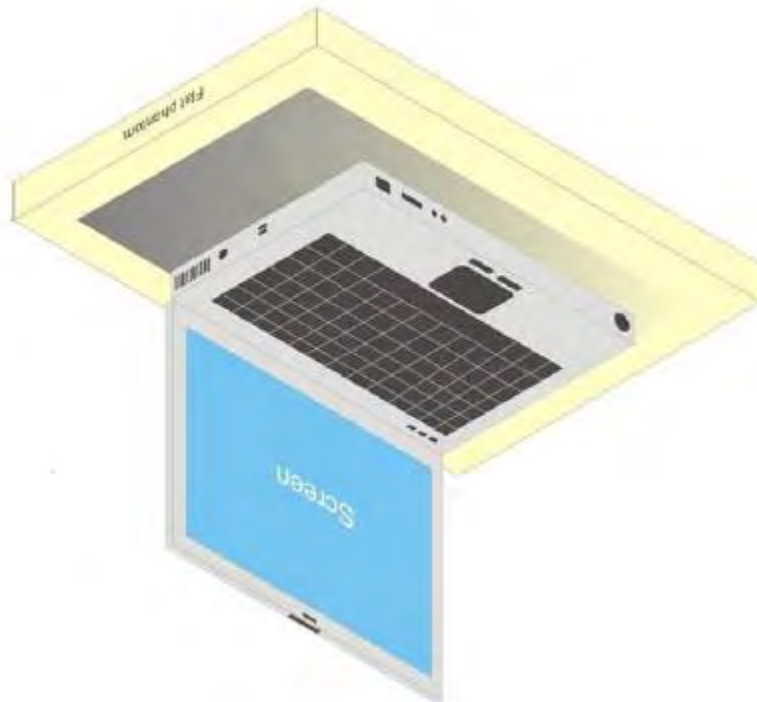


Illustration for Laptop Setup

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Tablet mode SAR test position (0mm)

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

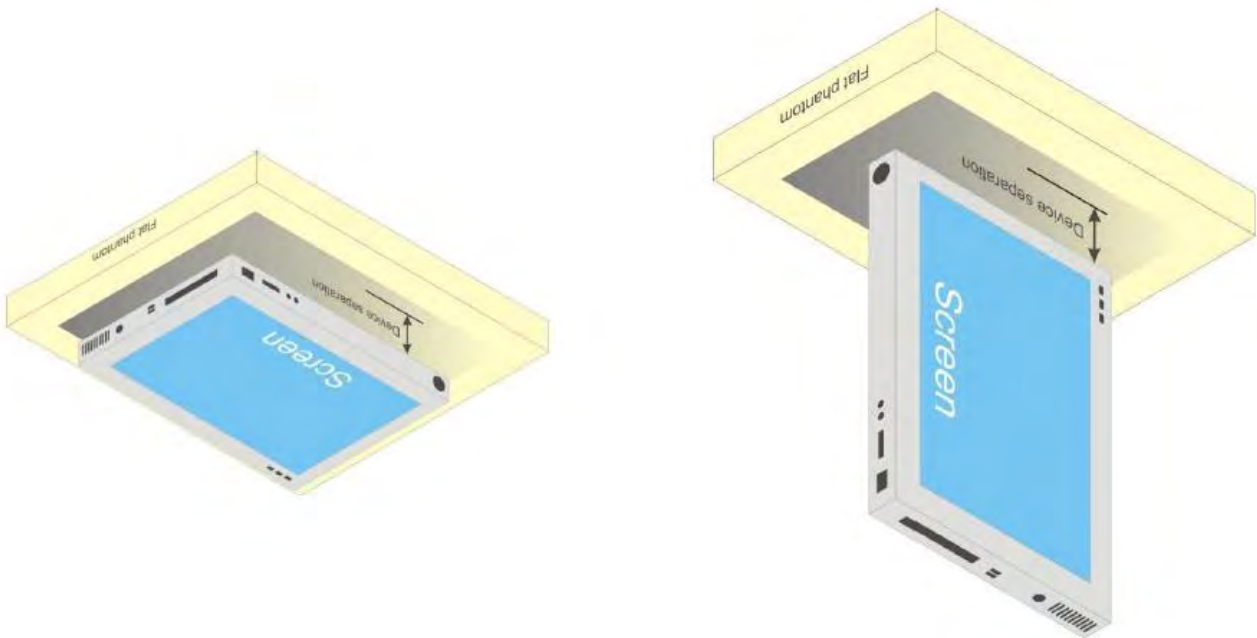


Illustration for Tablet Setup

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4.4 Power verification of device mode

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

Device mode verification by power measurement

Antenna	Operation mode	Lid angle	GPRS 850 1Dn4Up	GPRS 1Dn4Up
WWAN	Lid close	0°	n/a	n/a
		10°	n/a	n/a
		20°	n/a	n/a
		30°	n/a	n/a
	Laptop	40°	27.64	24.42
		35°	27.68	24.43
		30°	n/a	n/a
	Lid close	31°	n/a	n/a
		32°	n/a	n/a
		33°	n/a	n/a
		34°	n/a	n/a
	Laptop	35°	27.65	24.45
		36°	27.64	24.50
		37°	27.52	24.33
		38°	27.70	24.41
		39°	27.56	24.49
		40°	27.64	24.48
		50°	27.53	24.32
		60°	27.59	24.48
		70°	27.56	24.33
		80°	27.62	24.48
		90°	27.54	24.40
		100°	27.66	24.46
		110°	27.57	24.33
		120°	27.65	24.46
	Flat	130°	24.05	20.32
	Laptop	125°	27.66	24.49
		126°	27.65	24.44
		127°	27.57	24.44
		128°	27.65	24.31
		129°	27.64	24.32
	Flat	130°	24.09	20.49
		131°	24.13	20.46
		132°	24.20	20.40
		133°	24.12	20.45
		134°	24.07	20.44
		135°	24.16	20.34
		145°	24.20	20.43
		155°	24.08	20.32
		165°	24.13	20.31
		175°	24.06	20.34
		185°	24.08	20.41
		195°	24.14	20.39
	Tent (Not Horizontal)	205°	24.09	20.36
	Stand mode (Horizontal)	205°	27.64	24.31
	Flat	200°	24.14	20.40
		201°	24.18	20.36
	Tent (Not Horizontal)	202°	24.11	20.39
		203°	24.09	20.49
		204°	24.13	20.42
		205°	24.11	20.35
		215°	24.12	20.45
		225°	24.07	20.39
		235°	24.07	20.32
		245°	24.04	20.49
		255°	24.11	20.31
		265°	24.19	20.39
		275°	24.17	20.47
		285°	24.09	20.41
		295°	24.12	20.46
		305°	24.02	20.33
		315°	24.11	20.37
		325°	24.05	20.38
		335°	24.15	20.41

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Antenna	Operation mode	Lid angle	GPRS 850 1Dn4Up	GPRS 1Dn4Up
WWAN	Stand mode (Horizontal)	201°	27.51	24.42
		202°	27.70	24.40
		203°	27.65	24.46
		204°	27.58	24.45
		205°	27.63	24.50
		215°	27.58	24.36
		225°	27.59	24.48
		235°	27.69	24.45
		245°	27.55	24.35
		255°	27.60	24.49
		265°	27.65	24.43
		275°	27.69	24.38
		285°	27.68	24.47
		295°	27.68	24.43
		305°	27.69	24.31
		315°	27.64	24.37
		325°	27.68	24.39
		335°	27.59	24.35
	Tablet	345°	24.20	20.49
	Tent (Not Horizontal)	340°	24.08	20.41
	Stand mode (Horizontal)	340°	27.52	24.37
		341°	24.13	20.44
	Tablet	342°	24.14	20.33
		343°	24.05	20.49
		344°	24.18	20.43
		345°	24.09	20.48
		355°	24.17	20.36
		360°	24.18	20.38
	Tablet	350°	24.01	20.33
	Tent (Not Horizontal)	340°	24.20	20.40
	Stand mode (Horizontal)	340°	27.67	24.36
		345°	24.03	20.43
	Tablet	344°	24.12	20.45
		343°	24.14	20.33
		342°	24.08	20.35
		341°	24.01	20.45
	Tent (Not Horizontal)	340°	24.20	20.34
		339°	24.11	20.49
		338°	24.19	20.40
		337°	24.07	20.38
		336°	24.11	20.46
		335°	24.12	20.44
		325°	24.18	20.47
		315°	24.18	20.49
		305°	24.02	20.39
		295°	24.12	20.35
		285°	24.01	20.47
		275°	24.11	20.45
		265°	24.10	20.34
		255°	24.10	20.44
		245°	24.07	20.47
		235°	24.06	20.43
		225°	24.20	20.48
	Stand mode (Horizontal)	215°	24.17	20.49
		205°	24.05	20.37
		340°	27.54	24.43
		339°	27.52	24.36
		338°	27.53	24.50
		337°	27.63	24.44
		336°	27.57	24.40
		335°	27.55	24.34
		325°	27.70	24.40
		315°	27.52	24.36
		305°	27.65	24.35
		295°	27.69	24.33
		285°	27.57	24.35
		275°	27.63	24.32
		265°	27.54	24.41
		255°	27.57	24.41
		245°	27.60	24.39
		235°	27.65	24.45
		225°	27.70	24.33
		215°	27.58	24.32
		205°	27.70	24.49

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Antenna	Operation mode	Lid angle	GPRS_850_1Dn4Up	GPRS_1Dn4Up
WWAN	Flat	195°	24.01	20.38
		200°	24.09	20.40
	Tent (Not Horizontal)	205°	24.04	20.39
		204°	24.03	20.32
		203°	24.06	20.38
		202°	24.20	20.46
		201°	24.02	20.42
	Stand mode (Horizontal)	205°	27.53	24.43
		204°	27.55	24.38
		203°	27.57	24.42
		202°	27.68	24.40
		201°	27.57	24.35
	Flat	200°	24.02	20.43
		199°	24.17	20.34
		198°	24.08	20.48
		197°	24.15	20.33
		196°	24.07	20.34
		195°	24.18	20.46
		185°	24.09	20.38
		175°	24.02	20.45
		165°	24.04	20.48
		155°	24.14	20.44
		145°	24.06	20.48
		135°	24.11	20.37
	Laptop	125°	27.63	24.38
	Flat	130°	24.19	20.33
	Laptop	129°	27.61	24.38
		128°	27.60	24.50
		127°	27.59	24.45
		126°	27.68	24.35
		125°	27.59	24.45
		115°	27.59	24.41
		105°	27.63	24.44
		95°	27.64	24.35
		85°	27.64	24.36
		75°	27.53	24.47
		65°	27.67	24.31
		55°	27.57	24.33
		45°	27.64	24.37
		35°	27.64	24.42
	Lid close	25°	n/a	n/a
		30°	n/a	n/a
	Laptop	35°	27.59	24.36
	Lid close	34°	n/a	n/a
		33°	n/a	n/a
		32°	n/a	n/a
		31°	n/a	n/a
		30°	n/a	n/a
		20°	n/a	n/a
		10°	n/a	n/a
		0°	n/a	n/a

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4.5 Test limit

§ 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

§ 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits.

§ 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those

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recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, [Section 17.4.5](#), copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in [Section 4.1](#) of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to [§ 1.1310\(e\)\(1\)](#).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
-----------------------	-------------------------------	-------------------------------	-------------------------------------	--------------------------

(i) Limits for Occupational/Controlled Exposure

0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6

(ii) Limits for General Population/Uncontrolled Exposure

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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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

Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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5 MAXIMUM OUTPUT POWER

5.1 GSM/GPRS/EDGE

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30.5	27.5	25.5	24.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	29.55	26.86	24.98	24.33
	836.6	190	29.72	26.95	25.02	24.45
	848.8	251	29.63	26.77	24.88	24.25
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	20.52	20.84	20.72	21.32
	836.6	190	20.69	20.93	20.76	21.44
	848.8	251	20.60	20.75	20.62	21.44
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			28	25	23	22
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (8PSK)	824.2	128	26.08	24.54	22.57	21.84
	836.6	190	26.00	24.22	22.55	21.83
	848.8	251	26.04	24.17	22.54	21.81
Source-based time average power						
EDGE 850 (8PSK)	824.2	128	17.05	18.52	18.31	18.83
	836.6	190	16.97	18.20	18.29	18.82
	848.8	251	17.01	18.15	18.28	18.80
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	24	22	21
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	26.50	23.76	21.79	20.84
	1880	661	26.72	23.85	21.89	20.95
	1909.8	810	26.43	23.68	21.75	20.76
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	17.47	17.74	17.53	17.83
	1880	661	17.69	17.83	17.63	17.94
	1909.8	810	17.40	17.66	17.49	17.75
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	24	22	21
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	25.52	23.43	21.88	20.84
	1880	661	25.35	23.27	21.64	20.78
	1909.8	810	25.48	23.25	21.78	20.82
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	16.49	17.41	17.62	17.83
	1880	661	16.32	17.25	17.38	17.77
	1909.8	810	16.45	17.23	17.52	17.81
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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5.2 FDD CAT.M1

LTE Band 2_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1852.5	1880	1907.5		
Channel					18625	18900	19175		
5	QPSK	1	0	0	19.63	20.04	20.02	21.50	0
		1	5	0	19.55	20.01	20.01	21.50	0
		1	0	1	19.56	20.02	19.95	21.50	0
		1	5	1	19.61	19.98	19.92	21.50	0
		1	0	3	19.62	20.00	19.99	21.50	0
		1	5	3	19.53	20.03	19.97	21.50	0
		3	0	0	19.54	19.94	19.94	21.50	0
		3	3	3	19.56	19.97	19.96	21.50	0
		6	0	0	18.61	19.03	18.97	20.50	0-1
		6	0	1	18.56	19.03	18.99	20.50	0-1
	16-QAM	6	0	3	18.55	18.98	19.01	20.50	0-1
		1	0	0	19.56	20.00	20.01	21.50	0
		1	5	0	19.57	19.96	19.99	21.50	0
		1	0	1	19.56	19.96	19.95	21.50	0
		1	5	1	19.62	20.02	19.97	21.50	0
		1	0	3	19.54	19.96	19.95	21.50	0
		1	5	3	19.60	19.96	19.99	21.50	0
		3	0	0	19.58	20.00	19.93	21.50	0
		3	3	3	19.58	19.97	19.99	21.50	0
		5	0	0	18.62	19.00	18.97	20.50	0-1
		5	0	1	18.57	18.95	18.94	20.50	0-1
		5	0	3	18.62	18.94	18.94	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1851.5	1880	1908.5		
Channel					18615	18900	19185		
3	QPSK	1	0	0	19.54	19.94	20.01	21.50	0
		1	5	0	19.53	19.96	19.96	21.50	0
		1	0	1	19.55	19.94	19.93	21.50	0
		1	5	1	19.62	19.98	19.96	21.50	0
		3	3	0	19.56	20.00	19.97	21.50	0
		3	3	1	19.61	19.94	19.93	21.50	0
		6	0	0	18.60	19.00	19.00	20.50	0-1
		6	0	1	18.61	19.03	18.97	20.50	0-1
	16-QAM	1	0	0	19.56	19.94	20.00	21.50	0
		1	5	0	19.58	19.96	19.94	21.50	0
		1	0	1	19.59	19.95	20.01	21.50	0
		1	5	1	19.54	20.01	19.94	21.50	0
		3	0	0	19.60	20.01	19.93	21.50	0
		3	3	1	19.55	20.00	19.94	21.50	0
		5	0	0	18.59	18.96	18.92	20.50	0-1
		5	0	1	18.60	19.03	18.94	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1850.7	1880	1909.3		
Channel					18607	18900	19193		
1.4	QPSK	1	0	0	19.60	19.96	20.01	21.50	0
		1	5	0	19.55	19.95	19.96	21.50	0
		3	3	0	19.61	19.95	19.92	21.50	0
		6	0	0	18.53	19.02	19.00	20.50	0-1
	16-QAM	1	0	0	19.53	19.96	19.96	21.50	0
		1	5	0	19.53	19.98	19.97	21.50	0
		3	0	0	19.54	20.01	19.95	21.50	0
		5	0	0	18.57	18.97	18.94	20.50	0-1

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LTE Band 4_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1712.5	1732.5	1752.5		
Channel					19975	20175	20375		
5	QPSK	1	0	0	20.12	20.11	19.95	21.50	0
		1	5	0	20.09	20.02	19.94	21.50	0
		1	0	1	20.08	20.06	19.92	21.50	0
		1	5	1	20.10	20.02	19.90	21.50	0
		1	0	3	20.03	20.08	19.91	21.50	0
		1	5	3	20.04	20.02	19.89	21.50	0
		3	0	0	20.11	20.08	19.92	21.50	0
		3	3	3	20.06	20.10	19.93	21.50	0
		6	0	0	19.10	19.01	18.91	20.50	0-1
		6	0	1	19.03	19.04	18.91	20.50	0-1
	16-QAM	6	0	3	19.11	19.06	18.85	20.50	0-1
		1	0	0	20.11	20.02	19.92	21.50	0
		1	5	0	20.06	20.01	19.94	21.50	0
		1	0	1	20.02	20.07	19.87	21.50	0
		1	5	1	20.08	20.06	19.94	21.50	0
		1	0	3	20.09	20.03	19.87	21.50	0
		1	5	3	20.05	20.06	19.90	21.50	0
		3	0	0	20.08	20.04	19.93	21.50	0
		3	3	3	20.11	20.08	19.89	21.50	0
		5	0	0	19.11	19.10	18.87	20.50	0-1
		5	0	1	19.06	19.10	18.89	20.50	0-1
		5	0	3	19.02	19.03	18.93	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1711.5	1732.5	1753.5		
Channel					19965	20175	20385		
3	QPSK	1	0	0	20.05	20.05	19.88	21.50	0
		1	5	0	20.09	20.10	19.86	21.50	0
		1	0	1	20.11	20.07	19.94	21.50	0
		1	5	1	20.02	20.07	19.87	21.50	0
		3	3	0	20.06	20.09	19.90	21.50	0
		3	3	1	20.06	20.07	19.93	21.50	0
		6	0	0	19.10	19.02	18.93	20.50	0-1
		6	0	1	19.10	19.10	18.87	20.50	0-1
	16-QAM	1	0	0	20.02	20.01	19.85	21.50	0
		1	5	0	20.09	20.06	19.85	21.50	0
		1	0	1	20.11	20.10	19.86	21.50	0
		1	5	1	20.09	20.08	19.90	21.50	0
		3	0	0	20.11	20.07	19.87	21.50	0
		3	3	1	20.03	20.01	19.90	21.50	0
		5	0	0	19.11	19.09	18.92	20.50	0-1
		5	0	1	19.10	19.06	18.86	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1710.7	1732.5	1754.3		
Channel					19957	20175	20393		
1.4	QPSK	1	0	0	20.11	20.10	19.90	21.50	0
		1	5	0	20.10	20.09	19.94	21.50	0
		3	3	0	20.11	20.07	19.94	21.50	0
		6	0	0	19.05	19.06	18.94	20.50	0-1
	16-QAM	1	0	0	20.05	20.05	19.94	21.50	0
		1	5	0	20.06	20.01	19.88	21.50	0
		3	0	0	20.07	20.04	19.87	21.50	0
		5	0	0	19.03	19.09	18.86	20.50	0-1

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LTE Band 5_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					826.5	836.5	846.5		
Channel					20425	20525	20625		
5	QPSK	1	0	0	19.88	19.84	19.65	21.50	0
		1	5	0	19.85	19.76	19.64	21.50	0
		1	0	1	19.78	19.76	19.58	21.50	0
		1	5	1	19.87	19.77	19.63	21.50	0
		1	0	3	19.84	19.79	19.56	21.50	0
		1	5	3	19.79	19.81	19.58	21.50	0
		3	0	0	19.80	19.79	19.62	21.50	0
		3	3	3	19.84	19.80	19.59	21.50	0
		6	0	0	18.87	18.77	18.64	20.50	0-1
		6	0	1	18.81	18.75	18.57	20.50	0-1
	16-QAM	6	0	3	18.78	18.80	18.59	20.50	0-1
		1	0	0	19.84	19.74	19.62	21.50	0
		1	5	0	19.81	19.80	19.59	21.50	0
		1	0	1	19.81	19.82	19.58	21.50	0
		1	5	1	19.85	19.78	19.60	21.50	0
		1	0	3	19.78	19.76	19.56	21.50	0
		1	5	3	19.81	19.76	19.56	21.50	0
		3	0	0	19.84	19.83	19.63	21.50	0
		3	3	3	19.86	19.81	19.56	21.50	0
		5	0	0	18.87	18.75	18.62	20.50	0-1
		5	0	1	18.81	18.76	18.62	20.50	0-1
		5	0	3	18.85	18.74	18.56	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					825.5	836.5	847.5		
Channel					20415	20525	20635		
3	QPSK	1	0	0	19.86	19.80	19.58	21.50	0
		1	5	0	19.80	19.78	19.62	21.50	0
		1	0	1	19.78	19.81	19.55	21.50	0
		1	5	1	19.87	19.81	19.64	21.50	0
		3	3	0	19.87	19.75	19.58	21.50	0
		3	3	1	19.82	19.79	19.57	21.50	0
		6	0	0	18.81	18.74	18.58	20.50	0-1
		6	0	1	18.87	18.74	18.56	20.50	0-1
	16-QAM	1	0	0	19.84	19.76	19.61	21.50	0
		1	5	0	19.83	19.77	19.63	21.50	0
		1	0	1	19.81	19.83	19.62	21.50	0
		1	5	1	19.86	19.75	19.63	21.50	0
		3	0	0	19.84	19.74	19.60	21.50	0
		3	3	1	19.85	19.81	19.61	21.50	0
		5	0	0	18.83	18.83	18.60	20.50	0-1
		5	0	1	18.80	18.79	18.56	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1710.7	1732.5	1754.3		
Channel					19957	20175	20393		
1.4	QPSK	1	0	0	19.82	19.83	19.59	21.50	0
		1	5	0	19.81	19.76	19.57	21.50	0
		3	3	0	19.79	19.78	19.62	21.50	0
		6	0	0	18.78	18.79	18.61	20.50	0-1
	16-QAM	1	0	0	19.87	19.81	19.57	21.50	0
		1	5	0	19.82	19.76	19.56	21.50	0
		3	0	0	19.87	19.80	19.56	21.50	0
		5	0	0	18.80	18.78	18.61	20.50	0-1

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LTE Band 12_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					701.5	707.5	713.5		
Channel					23035	23095	23155		
5	QPSK	1	0	0	20.07	20.08	19.91	21.50	0
		1	5	0	20.03	20.03	19.87	21.50	0
		1	0	1	20.04	20.07	19.82	21.50	0
		1	5	1	19.99	20.06	19.82	21.50	0
		1	0	3	20.04	20.06	19.88	21.50	0
		1	5	3	19.97	20.04	19.86	21.50	0
		3	0	0	19.98	20.02	19.81	21.50	0
		3	3	3	20.03	20.00	19.86	21.50	0
		6	0	0	19.03	19.05	18.90	20.50	0-1
		6	0	1	19.04	19.05	18.88	20.50	0-1
	16-QAM	6	0	3	19.05	18.99	18.86	20.50	0-1
		1	0	0	20.05	20.07	19.81	21.50	0
		1	5	0	19.99	19.98	19.88	21.50	0
		1	0	1	20.04	19.99	19.83	21.50	0
		1	5	1	19.97	20.01	19.87	21.50	0
		1	0	3	19.97	20.01	19.84	21.50	0
		1	5	3	19.98	20.00	19.81	21.50	0
		3	0	0	20.02	19.98	19.86	21.50	0
		3	3	3	19.98	20.02	19.86	21.50	0
		5	0	0	18.99	19.03	18.84	20.50	0-1
		5	0	1	18.98	19.04	18.87	20.50	0-1
		5	0	3	19.06	19.05	18.88	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					700.5	707.5	714.5		
Channel					23025	23095	23165		
3	QPSK	1	0	0	19.99	20.05	19.84	21.50	0
		1	5	0	19.97	20.06	19.86	21.50	0
		1	0	1	20.03	20.01	19.85	21.50	0
		1	5	1	19.98	20.00	19.81	21.50	0
		3	3	0	20.05	20.01	19.83	21.50	0
		3	3	1	20.06	20.04	19.85	21.50	0
		6	0	0	19.02	18.98	18.87	20.50	0-1
		6	0	1	18.99	19.04	18.84	20.50	0-1
	16-QAM	1	0	0	20.01	19.99	19.81	21.50	0
		1	5	0	20.03	20.00	19.88	21.50	0
		1	0	1	20.06	20.07	19.81	21.50	0
		1	5	1	19.99	19.98	19.90	21.50	0
		3	0	0	20.03	20.06	19.81	21.50	0
		3	3	1	20.01	20.07	19.90	21.50	0
		5	0	0	19.03	19.07	18.87	20.50	0-1
		5	0	1	19.01	19.00	18.89	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					699.7	707.5	715.3		
Channel					23017	23095	23173		
1.4	QPSK	1	0	0	20.02	20.06	19.88	21.50	0
		1	5	0	20.04	20.07	19.90	21.50	0
		3	3	0	20.04	20.06	19.90	21.50	0
		6	0	0	19.06	19.07	18.81	20.50	0-1
	16-QAM	1	0	0	20.04	20.02	19.84	21.50	0
		1	5	0	19.97	20.07	19.88	21.50	0
		3	0	0	20.01	20.06	19.87	21.50	0
		5	0	0	18.97	18.99	18.86	20.50	0-1

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LTE Band 13_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					779.5	782	784.5		
Channel					23205	23230	23255		
5	QPSK	1	0	0	19.97	19.91	19.82	21.50	0
		1	5	0	19.89	19.89	19.73	21.50	0
		1	0	1	19.96	19.88	19.78	21.50	0
		1	5	1	19.88	19.81	19.75	21.50	0
		1	0	3	19.87	19.85	19.78	21.50	0
		1	5	3	19.88	19.86	19.74	21.50	0
		3	0	0	19.90	19.88	19.80	21.50	0
		3	3	3	19.96	19.84	19.79	21.50	0
		6	0	0	18.95	18.86	18.76	20.50	0-1
		6	0	1	18.92	18.89	18.73	20.50	0-1
	16-QAM	6	0	3	18.87	18.84	18.80	20.50	0-1
		1	0	0	19.88	19.84	19.72	21.50	0
		1	5	0	19.87	19.88	19.75	21.50	0
		1	0	1	19.88	19.89	19.81	21.50	0
		1	5	1	19.96	19.82	19.75	21.50	0
		1	0	3	19.91	19.87	19.73	21.50	0
		1	5	3	19.91	19.84	19.75	21.50	0
		3	0	0	19.90	19.90	19.73	21.50	0
		3	3	3	19.89	19.81	19.79	21.50	0
		5	0	0	18.91	18.82	18.76	20.50	0-1
		5	0	1	18.91	18.82	18.81	20.50	0-1
		5	0	3	18.87	18.84	18.72	20.50	0-1

LTE Band 14_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					790.5	793	795.5		
Channel					23305	23330	23355		
5	QPSK	1	0	0	19.93	19.92	19.97	21.50	0
		1	5	0	19.85	19.84	19.89	21.50	0
		1	0	1	19.89	19.87	19.90	21.50	0
		1	5	1	19.89	19.90	19.88	21.50	0
		1	0	3	19.90	19.89	19.90	21.50	0
		1	5	3	19.86	19.90	19.91	21.50	0
		3	0	0	19.86	19.87	19.90	21.50	0
		3	3	3	19.91	19.91	19.92	21.50	0
		6	0	0	18.84	18.88	18.93	20.50	0-1
		6	0	1	18.83	18.91	18.91	20.50	0-1
	16-QAM	6	0	3	18.91	18.87	18.89	20.50	0-1
		1	0	0	19.92	19.88	19.93	21.50	0
		1	5	0	19.92	19.88	19.95	21.50	0
		1	0	1	19.90	19.82	19.87	21.50	0
		1	5	1	19.85	19.82	19.93	21.50	0
		1	0	3	19.89	19.91	19.92	21.50	0
		1	5	3	19.87	19.91	19.96	21.50	0
		3	0	0	19.83	19.91	19.89	21.50	0
		3	3	3	19.90	19.91	19.87	21.50	0
		5	0	0	18.92	18.86	18.90	20.50	0-1
		5	0	1	18.90	18.88	18.94	20.50	0-1
		5	0	3	18.90	18.90	18.90	20.50	0-1

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BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1852.5	1882.5	1912.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel					26065	26365	26665		
5	QPSK	1	0	0	19.94	19.99	20.10	21.50	0
		1	5	0	19.88	19.93	20.01	21.50	0
		1	0	1	19.90	19.89	20.09	21.50	0
		1	5	1	19.90	19.91	20.05	21.50	0
		1	0	3	19.88	19.95	20.02	21.50	0
		1	5	3	19.87	19.98	20.02	21.50	0
		3	0	0	19.84	19.94	20.00	21.50	0
		3	3	3	19.86	19.94	20.03	21.50	0
		6	0	0	18.87	18.97	19.05	20.50	0-1
		6	0	1	18.93	18.97	19.04	20.50	0-1
	16-QAM	6	0	3	18.93	18.93	19.09	20.50	0-1
		1	0	0	19.87	19.96	20.05	21.50	0
		1	5	0	19.85	19.97	20.06	21.50	0
		1	0	1	19.86	19.94	20.09	21.50	0
		1	5	1	19.87	19.92	20.05	21.50	0
		1	0	3	19.92	19.95	20.00	21.50	0
		1	5	3	19.88	19.89	20.07	21.50	0
		3	0	0	19.91	19.96	20.02	21.50	0
		3	3	3	19.89	19.90	20.06	21.50	0
		5	0	0	18.89	18.97	19.01	20.50	0-1
		5	0	1	18.90	18.93	19.06	20.50	0-1
		5	0	3	18.89	18.91	19.00	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1851.5	1882.5	1913.5	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel					26055	26365	26675		
3	QPSK	1	0	0	19.84	19.93	20.07	21.50	0
		1	5	0	19.84	19.92	20.02	21.50	0
		1	0	1	19.92	19.96	20.04	21.50	0
		1	5	1	19.87	19.93	20.07	21.50	0
		3	3	0	19.86	19.95	20.07	21.50	0
		3	3	1	19.84	19.96	20.02	21.50	0
		6	0	0	18.92	18.97	19.07	20.50	0-1
		6	0	1	18.89	18.89	19.00	20.50	0-1
	16-QAM	1	0	0	19.90	19.94	20.05	21.50	0
		1	5	0	19.92	19.91	20.02	21.50	0
		1	0	1	19.90	19.97	20.09	21.50	0
		1	5	1	19.92	19.95	20.02	21.50	0
		3	0	0	19.86	19.89	20.03	21.50	0
		3	3	1	19.92	19.93	20.03	21.50	0
		5	0	0	18.88	18.93	19.07	20.50	0-1
		5	0	1	18.93	18.92	19.04	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1850.7	1882.5	1914.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel					26047	26365	26683		
1.4	QPSK	1	0	0	19.91	19.94	20.00	21.50	0
		1	5	0	19.88	19.89	20.08	21.50	0
		3	3	0	19.89	19.97	20.05	21.50	0
		6	0	0	18.87	18.91	19.06	20.50	0-1
	16-QAM	1	0	0	19.85	19.97	20.04	21.50	0
		1	5	0	19.88	19.90	20.05	21.50	0
		3	0	0	19.89	19.92	20.00	21.50	0
		5	0	0	18.91	18.89	19.08	20.50	0-1

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BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					816.5	831.5	846.5		
Channel					26715	26865	27015		
5	QPSK	1	0	0	19.93	20.04	19.96	21.50	0
		1	5	0	19.83	20.01	19.88	21.50	0
		1	0	1	19.88	19.96	19.88	21.50	0
		1	5	1	19.88	19.96	19.93	21.50	0
		1	0	3	19.87	19.96	19.86	21.50	0
		1	5	3	19.83	19.95	19.91	21.50	0
		3	0	0	19.83	19.94	19.94	21.50	0
		3	3	3	19.92	19.97	19.90	21.50	0
		6	0	0	18.86	18.99	18.87	20.50	0-1
		6	0	1	18.92	18.95	18.94	20.50	0-1
	16-QAM	6	0	3	18.84	18.97	18.91	20.50	0-1
		1	0	0	19.91	19.97	19.91	21.50	0
		1	5	0	19.90	19.96	19.88	21.50	0
		1	0	1	19.89	20.01	19.93	21.50	0
		1	5	1	19.88	19.94	19.90	21.50	0
		1	0	3	19.89	19.99	19.87	21.50	0
		1	5	3	19.89	19.96	19.92	21.50	0
		3	0	0	19.84	20.00	19.92	21.50	0
		3	3	3	19.89	19.94	19.89	21.50	0
		5	0	0	18.87	18.96	18.93	20.50	0-1
		5	0	1	18.90	18.97	18.91	20.50	0-1
		5	0	3	18.91	18.99	18.86	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					815.5	831.5	847.5		
Channel					26705	26865	27025		
3	QPSK	1	0	0	19.88	19.95	19.79	21.50	0
		1	5	0	19.87	20.01	19.86	21.50	0
		1	0	1	19.89	19.95	19.80	21.50	0
		1	5	1	19.83	19.94	19.77	21.50	0
		3	3	0	19.84	20.03	19.83	21.50	0
		3	3	1	19.83	20.01	19.84	21.50	0
		6	0	0	18.89	19.03	18.85	20.50	0-1
		6	0	1	18.91	19.03	18.80	20.50	0-1
	16-QAM	1	0	0	19.92	20.03	19.86	21.50	0
		1	5	0	19.90	20.02	19.81	21.50	0
		1	0	1	19.89	19.97	19.77	21.50	0
		1	5	1	19.88	19.98	19.80	21.50	0
		3	0	0	19.92	19.95	19.82	21.50	0
		3	3	1	19.84	19.99	19.84	21.50	0
		5	0	0	18.84	19.01	18.83	20.50	0-1
		5	0	1	18.92	18.94	18.79	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					814.7	831.5	848.3		
Channel					26697	26865	27033		
1.4	QPSK	1	0	0	19.92	19.98	19.89	21.50	0
		1	5	0	19.88	19.94	19.89	21.50	0
		3	3	0	19.85	19.97	19.95	21.50	0
		6	0	0	18.92	19.00	18.95	20.50	0-1
	16-QAM	1	0	0	19.83	19.98	19.90	21.50	0
		1	5	0	19.84	19.98	19.86	21.50	0
		3	0	0	19.92	20.02	19.88	21.50	0
		5	0	0	18.89	19.01	18.94	20.50	0-1

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LTE Band 66_Cat.M1									
BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1712.5	1745	1777.5		
Channel					131997	132322	132647		
5	QPSK	1	0	0	19.98	19.87	20.16	21.50	0
		1	5	0	19.90	19.78	20.12	21.50	0
		1	0	1	19.93	19.85	20.15	21.50	0
		1	5	1	19.92	19.77	20.07	21.50	0
		1	0	3	19.92	19.77	20.09	21.50	0
		1	5	3	19.92	19.85	20.14	21.50	0
		3	0	0	19.90	19.85	20.11	21.50	0
		3	3	3	19.91	19.78	20.11	21.50	0
		6	0	0	18.95	18.86	19.10	20.50	0-1
		6	0	1	18.93	18.85	19.13	20.50	0-1
	16-QAM	6	0	3	18.88	18.83	19.13	20.50	0-1
		1	0	0	19.91	19.80	20.07	21.50	0
		1	5	0	19.95	19.83	20.13	21.50	0
		1	0	1	19.88	19.77	20.10	21.50	0
		1	5	1	19.97	19.81	20.09	21.50	0
		1	0	3	19.91	19.83	20.14	21.50	0
		1	5	3	19.95	19.77	20.12	21.50	0
		3	0	0	19.89	19.82	20.13	21.50	0
		3	3	3	19.89	19.81	20.07	21.50	0
		5	0	0	18.94	18.82	19.15	20.50	0-1
		5	0	1	18.96	18.84	19.07	20.50	0-1
		5	0	3	18.93	18.83	19.14	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1711.5	1745	1778.5		
Channel					131987	132322	132657		
3	QPSK	1	0	0	19.96	19.84	20.09	21.50	0
		1	5	0	19.92	19.77	20.07	21.50	0
		1	0	1	19.95	19.83	20.14	21.50	0
		1	5	1	19.91	19.86	20.14	21.50	0
		3	3	0	19.90	19.84	20.07	21.50	0
		3	3	1	19.97	19.79	20.09	21.50	0
		6	0	0	18.89	18.82	19.07	20.50	0-1
		6	0	1	18.91	18.82	19.12	20.50	0-1
	16-QAM	1	0	0	19.91	19.82	20.10	21.50	0
		1	5	0	19.88	19.78	20.10	21.50	0
		1	0	1	19.92	19.84	20.11	21.50	0
		1	5	1	19.88	19.83	20.11	21.50	0
		3	0	0	19.95	19.78	20.09	21.50	0
		3	3	1	19.88	19.79	20.15	21.50	0
		5	0	0	18.92	18.81	19.10	20.50	0-1
		5	0	1	18.95	18.79	19.15	20.50	0-1

BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					1710.7	1745	1779.3		
Channel					131979	132322	132665		
1.4	QPSK	1	0	0	19.95	19.82	20.07	21.50	0
		1	5	0	19.94	19.83	20.08	21.50	0
		3	3	0	19.90	19.81	20.08	21.50	0
		6	0	0	18.94	18.85	19.09	20.50	0-1
	16-QAM	1	0	0	19.94	19.85	20.14	21.50	0
		1	5	0	19.93	19.79	20.11	21.50	0
		3	0	0	19.95	19.79	20.12	21.50	0
		5	0	0	18.94	18.86	19.09	20.50	0-1

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BW(MHz)	Modulation	RB Size	RB Offset	Narrowband Index	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					700.5	707	713.5		
Channel					134027	134092	134157		
5	QPSK	1	0	0	20.13	20.15	19.83	21.50	0
		1	5	0	20.11	20.12	19.76	21.50	0
		1	0	1	20.09	20.08	19.77	21.50	0
		1	5	1	20.11	20.05	19.79	21.50	0
		1	0	3	20.08	20.08	19.73	21.50	0
		1	5	3	20.07	20.13	19.81	21.50	0
		3	0	0	20.05	20.09	19.75	21.50	0
		3	3	3	20.03	20.11	19.81	21.50	0
		6	0	0	19.10	19.08	18.73	20.50	0-1
		6	0	1	19.03	19.11	18.80	20.50	0-1
		6	0	3	19.05	19.06	18.76	20.50	0-1
		1	0	0	20.12	20.12	19.79	21.50	0
	16-QAM	1	5	0	20.03	20.05	19.77	21.50	0
		1	0	1	20.10	20.05	19.82	21.50	0
		1	5	1	20.11	20.06	19.80	21.50	0
		1	0	3	20.12	20.06	19.74	21.50	0
		1	5	3	20.03	20.14	19.77	21.50	0
		3	0	0	20.09	20.11	19.73	21.50	0
		3	3	3	20.03	20.06	19.74	21.50	0
		5	0	0	19.09	19.06	18.80	20.50	0-1
		5	0	1	19.05	19.13	18.80	20.50	0-1
		5	0	3	19.04	19.06	18.79	20.50	0-1

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6 SUMMARY OF RESULTS

6.1 Decision rules

Reported measurement data comply with Test Methodology in section 1.1.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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6.2 Summary of SAR Results

Vendor 1

Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
								Measured	Reported	
GPRS850 <1Dn4Up>	Back Surface	0	190	836.6	24.5	24.45	101.16%	0.171	0.173	-
GPRS850 <1Dn4Up>	Top Edge	0	128	824.2	24.5	24.33	103.99%	0.578	0.601	-
GPRS850 <1Dn4Up>	Top Edge	0	190	836.6	24.5	24.45	101.16%	0.647	0.654	001
GPRS850 <1Dn4Up>	Top Edge	0	251	848.8	24.5	24.25	105.93%	0.612	0.648	-
GPRS850 <1Dn4Up>	Left Edge	0	190	836.6	24.5	24.45	101.16%	0.023	0.023	-
GPRS850 <1Dn4Up>	Right Edge	0	190	836.6	24.5	24.45	101.16%	0.126	0.127	-
GPRS1900 <1Dn4Up>	Back Surface	0	512	1850.2	21.0	20.84	103.75%	0.082	0.085	-
GPRS1900 <1Dn4Up>	Top Edge	0	512	1850.2	21.0	20.84	103.75%	0.469	0.487	002
GPRS1900 <1Dn4Up>	Top Edge	0	661	1880	21.0	20.95	101.16%	0.439	0.444	-
GPRS1900 <1Dn4Up>	Top Edge	0	810	1909.8	21.0	20.76	105.68%	0.426	0.450	-
GPRS1900 <1Dn4Up>	Left Edge	0	512	1850.2	21.0	20.84	103.75%	0.034	0.035	-
GPRS1900 <1Dn4Up>	Right Edge	0	512	1850.2	21.0	20.84	103.75%	0.207	0.215	-

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Narrowband Index	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
													Measured	Reported	
CAT.M1 Band 2	5MHz	QPSK	1	0	0	Back Surface	0	19000	1880	21.50	20.04	139.96%	0.014	0.020	-
CAT.M1 Band 2			1	0	0	Top Edge	0	18625	1852.5	21.50	19.63	153.82%	0.095	0.147	-
CAT.M1 Band 2			1	0	0	Top Edge	0	18900	1880	21.50	20.04	139.96%	0.100	0.140	-
CAT.M1 Band 2			1	0	0	Top Edge	0	19175	1907.5	21.50	20.02	140.60%	0.190	0.267	003
CAT.M1 Band 2			1	0	0	Left Edge	0	18900	1880	21.50	20.04	139.96%	0.001	0.001	-
CAT.M1 Band 2			1	0	0	Right Edge	0	19175	1907.5	21.50	20.02	140.60%	0.022	0.031	-
CAT.M1 Band 4	5MHz	QPSK	1	0	0	Back Surface	0	19975	1712.5	21.50	20.12	137.40%	0.021	0.028	-
CAT.M1 Band 4			1	0	0	Top Edge	0	19975	1712.5	21.50	20.12	137.40%	0.068	0.094	-
CAT.M1 Band 4			1	0	0	Top Edge	0	20175	1732.5	21.50	20.11	137.72%	0.093	0.128	-
CAT.M1 Band 4			1	0	0	Top Edge	0	20375	1752.5	21.50	19.95	142.89%	0.130	0.186	004
CAT.M1 Band 4			1	0	0	Left Edge	0	19975	1712.5	21.50	20.12	137.40%	0.002	0.003	-
CAT.M1 Band 4			1	0	0	Right Edge	0	19975	1712.5	21.50	20.12	137.40%	0.017	0.024	-
CAT.M1 Band 5	5MHz	QPSK	1	0	0	Back Surface	0	20425	826.5	21.50	19.88	145.21%	0.030	0.044	-
CAT.M1 Band 5			1	0	0	Top Edge	0	20425	826.5	21.50	19.88	145.21%	0.272	0.395	-
CAT.M1 Band 5			1	0	0	Top Edge	0	20525	836.5	21.50	19.84	146.55%	0.283	0.415	-
CAT.M1 Band 5			1	0	0	Top Edge	0	20625	846.5	21.50	19.65	153.11%	0.288	0.441	005
CAT.M1 Band 5			1	0	0	Left Edge	0	20425	826.5	21.50	19.88	145.21%	0.001	0.001	-
CAT.M1 Band 5			1	0	0	Right Edge	0	20425	826.5	21.50	19.88	145.21%	0.025	0.036	-
CAT.M1 Band 12	5MHz	QPSK	1	0	0	Back Surface	0	23095	707.5	21.50	20.08	138.68%	0.019	0.026	-
CAT.M1 Band 12			1	0	0	Top Edge	0	23035	701.5	21.50	20.07	139.00%	0.283	0.393	-
CAT.M1 Band 12			1	0	0	Top Edge	0	23095	707.5	21.50	20.08	138.68%	0.292	0.405	006
CAT.M1 Band 12			1	0	0	Top Edge	0	23155	713.5	21.50	19.91	144.21%	0.254	0.366	-
CAT.M1 Band 12			1	0	0	Left Edge	0	23095	707.5	21.50	20.08	138.68%	0.002	0.003	-
CAT.M1 Band 12			1	0	0	Right Edge	0	23095	707.5	21.50	20.08	138.68%	0.011	0.015	-
CAT.M1 Band 13	5MHz	QPSK	1	0	0	Back Surface	0	23205	779.5	21.50	19.97	142.23%	0.025	0.036	-
CAT.M1 Band 13			1	0	0	Top Edge	0	23205	779.5	21.50	19.97	142.23%	0.290	0.412	-
CAT.M1 Band 13			1	0	0	Top Edge	0	23230	782	21.50	19.91	144.21%	0.312	0.450	-
CAT.M1 Band 13			1	0	0	Top Edge	0	23255	784.5	21.50	19.82	147.23%	0.313	0.461	007
CAT.M1 Band 13			1	0	0	Left Edge	0	23205	779.5	21.50	19.97	142.23%	0.002	0.003	-
CAT.M1 Band 13			1	0	0	Right Edge	0	23205	779.5	21.50	19.97	142.23%	0.019	0.027	-
CAT.M1 Band 14	5MHz	QPSK	1	0	0	Back Surface	0	23355	795.5	21.50	19.97	142.23%	0.021	0.030	-
CAT.M1 Band 14			1	0	0	Top Edge	0	23305	790.5	21.50	19.93	143.55%	0.297	0.428	-
CAT.M1 Band 14			1	0	0	Top Edge	0	23330	793	21.50	19.92	143.88%	0.292	0.420	-
CAT.M1 Band 14			1	0	0	Top Edge	0	23355	795.5	21.50	19.97	142.23%	0.322	0.458	008
CAT.M1 Band 14			1	0	0	Left Edge	0	23355	795.5	21.50	19.97	142.23%	0.003	0.004	-
CAT.M1 Band 14			1	0	0	Right Edge	0	23355	795.5	21.50	19.97	142.23%	0.021	0.030	-
CAT.M1 Band 25	5MHz	QPSK	1	0	0	Back Surface	0	26665	1912.5	21.50	20.10	138.04%	0.019	0.026	-
CAT.M1 Band 25			1	0	0	Top Edge	0	26065	1852.5	21.50	19.94	143.22%	0.098	0.140	-
CAT.M1 Band 25			1	0	0	Top Edge	0	26365	1882.5	21.50	19.99	141.58%	0.108	0.153	-
CAT.M1 Band 25			1	0	0	Top Edge	0	26665	1912.5	21.50	20.10	138.04%	0.261	0.360	009
CAT.M1 Band 25			1	0	0	Left Edge	0	26665	1912.5	21.50	20.10	138.04%	0.002	0.003	-
CAT.M1 Band 25			1	0	0	Right Edge	0	26665	1912.5	21.50	20.10	138.04%	0.034	0.046	-
CAT.M1 Band 26 FCC	5MHz	QPSK	1	0	0	Back Surface	0	26865	831.5	21.50	20.04	139.96%	0.030	0.041	-
CAT.M1 Band 26 FCC			1	0	0	Top Edge	0	26715	816.5	21.50	19.93	143.55%	0.275	0.395	-
CAT.M1 Band 26 FCC			1	0	0	Top Edge	0	26865	831.5	21.50	20.04	139.96%	0.288	0.403	010
CAT.M1 Band 26 FCC			1	0	0	Top Edge	0	27015	846.5	21.50	19.87	145.55%	0.262	0.381	-
CAT.M1 Band 26 FCC			1	0	0	Left Edge	0	26865	831.5	21.50	20.04	139.96%	0.001	0.001	-
CAT.M1 Band 26 FCC			1	0	0	Right Edge	0	26865	831.5	21.50	20.04	139.96%	0.025	0.035	-
CAT.M1 Band 66	5MHz	QPSK	1	0	0	Back Surface	0	132647	1777.5	21.50	20.16	136.14%	0.030	0.040	-
CAT.M1 Band 66			1	0	0	Top Edge	0	131997	1712.5	21.50	19.98	141.91%	0.050	0.071	-
CAT.M1 Band 66			1	0	0	Top Edge	0	132322	1745	21.50	19.87	145.55%	0.100	0.146	-
CAT.M1 Band 66			1	0	0	Top Edge	0	132647	1777.5	21.50	20.16	136.14%	0.155	0.211	012
CAT.M1 Band 66			1	0	0	Left Edge	0	132647	1777.5	21.50	20.16	136.14%	0.002	0.003	-
CAT.M1 Band 66			1	0	0	Right Edge	0	132647	1777.5	21.50	20.16	136.14%	0.060	0.081	-
CAT.M1 Band 85	5MHz	QPSK	1	0	0	Back Surface	0	134092	707	21.50	20.15	136.46%	0.019	0.026	-
CAT.M1 Band 85			1	0	0	Top Edge	0	134027	700.5	21.50	20.13	137.09%	0.278	0.381	-
CAT.M1 Band 85			1	0	0	Top Edge	0	134092	707	21.50	20.15	136.46%	0.280	0.382	013
CAT.M1 Band 85			1	0	0	Top Edge	0	134157	713.5	21.50	19.83	146.89%	0.252	0.370	-
CAT.M1 Band 85			1	0	0	Left Edge	0	134092	707	21.50	20.15	136.46%	0.001	0.001	-
CAT.M1 Band 85			1	0	0	Right Edge	0	134092	707	21.50	20.15	136.46%	0.011	0.015	-

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Vendor 2

Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
								Measured	Reported	
GPRS850 <1Dn4Up>	Back Surface	0	190	836.6	24.5	24.45	101.16%	0.243	0.246	-
GPRS850 <1Dn4Up>	Top Edge	0	128	824.2	24.5	24.33	103.99%	1.110	1.154	014
GPRS850 <1Dn4Up>	Top Edge	0	190	836.6	24.5	24.45	101.16%	0.927	0.938	-
GPRS850 <1Dn4Up>	Top Edge	0	251	848.8	24.5	24.25	105.93%	0.726	0.769	-
GPRS850 <1Dn4Up>	Left Edge	0	190	836.6	24.5	24.45	101.16%	0.047	0.048	-
GPRS850 <1Dn4Up>	Right Edge	0	190	836.6	24.5	24.45	101.16%	0.184	0.186	-
GPRS850 <1Dn4Up>	Top Edge*	0	128	824.2	24.5	24.33	103.99%	1.070	1.113	-
GPRS1900 <1Dn4Up>	Back Surface	0	512	1850.2	21.0	20.84	103.75%	0.128	0.133	-
GPRS1900 <1Dn4Up>	Top Edge	0	512	1850.2	21.0	20.84	103.75%	0.522	0.542	-
GPRS1900 <1Dn4Up>	Top Edge	0	661	1880	21.0	20.95	101.16%	0.808	0.817	-
GPRS1900 <1Dn4Up>	Top Edge	0	810	1909.8	21.0	20.76	105.68%	1.070	1.131	015
GPRS1900 <1Dn4Up>	Left Edge	0	512	1850.2	21.0	20.84	103.75%	0.028	0.029	-
GPRS1900 <1Dn4Up>	Right Edge	0	512	1850.2	21.0	20.84	103.75%	0.073	0.076	-
GPRS1900 <1Dn4Up>	Top Edge*	0	810	1909.8	21.0	20.76	105.68%	1.030	1.089	-

* - repeated at the highest SAR measurement according to the KDB 865664 D01

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Narrowband Index	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
													Measured	Reported	
CAT.M1 Band 2	5MHz	QPSK	1	0	0	Back Surface	0	18900	1880	21.50	20.04	139.96%	0.017	0.024	-
CAT.M1 Band 2			1	0	0	Top Edge	0	18900	1880	21.50	20.04	139.96%	0.092	0.144	-
CAT.M1 Band 2			1	0	0	Top Edge	0	18900	1880	21.50	20.04	139.96%	0.092	0.138	-
CAT.M1 Band 2			1	0	0	Top Edge	0	19175	1907.5	21.50	20.02	140.60%	0.173	0.243	016
CAT.M1 Band 2			1	0	0	Left Edge	0	18900	1880	21.50	20.04	139.96%	0.003	0.004	-
CAT.M1 Band 2			1	0	0	Right Edge	0	18900	1880	21.50	20.04	139.96%	0.025	0.035	-
CAT.M1 Band 4	5MHz	QPSK	1	0	0	Back Surface	0	19975	1712.5	21.50	20.12	137.40%	0.045	0.052	-
CAT.M1 Band 4			1	0	0	Top Edge	0	19975	1712.5	21.50	20.12	137.40%	0.295	0.405	017
CAT.M1 Band 4			1	0	0	Top Edge	0	20175	1732.5	21.50	20.11	137.72%	0.281	0.387	-
CAT.M1 Band 4			1	0	0	Top Edge	0	20375	1752.5	21.50	19.95	142.89%	0.274	0.352	-
CAT.M1 Band 4			1	0	0	Left Edge	0	19975	1712.5	21.50	20.12	137.40%	0.005	0.007	-
CAT.M1 Band 4			1	0	0	Right Edge	0	19975	1712.5	21.50	20.12	137.40%	0.035	0.048	-
CAT.M1 Band 5	5MHz	QPSK	1	0	0	Back Surface	0	20425	826.5	21.50	19.88	145.21%	0.028	0.041	-
CAT.M1 Band 5			1	0	0	Top Edge	0	20425	826.5	21.50	19.88	145.21%	0.133	0.168	018
CAT.M1 Band 5			1	0	0	Top Edge	0	20625	846.5	21.50	19.84	146.58%	0.115	0.168	-
CAT.M1 Band 5			1	0	0	Top Edge	0	20625	846.5	21.50	19.85	153.11%	0.124	0.190	-
CAT.M1 Band 5			1	0	0	Left Edge	0	20425	826.5	21.50	19.88	145.21%	0.003	0.004	-
CAT.M1 Band 5			1	0	0	Right Edge	0	20425	826.5	21.50	19.88	145.21%	0.017	0.025	-
CAT.M1 Band 12	5MHz	QPSK	1	0	0	Back Surface	0	23095	707.5	21.50	20.08	138.68%	0.059	0.082	-
CAT.M1 Band 12			1	0	0	Top Edge	0	23035	701.5	21.50	20.07	139.00%	0.169	0.235	-
CAT.M1 Band 12			1	0	0	Top Edge	0	23265	707.5	21.50	20.08	138.68%	0.260	0.277	019
CAT.M1 Band 12			1	0	0	Top Edge	0	23195	713.5	21.50	19.91	144.21%	0.185	0.267	-
CAT.M1 Band 12			1	0	0	Left Edge	0	23095	707.5	21.50	20.08	138.68%	0.007	0.010	-
CAT.M1 Band 12			1	0	0	Right Edge	0	23095	707.5	21.50	20.08	138.68%	0.025	0.035	-
CAT.M1 Band 13	5MHz	QPSK	1	0	0	Back Surface	0	23205	779.5	21.50	19.97	142.23%	0.043	0.061	-
CAT.M1 Band 13			1	0	0	Top Edge	0	23205	779.5	21.50	19.97	142.23%	0.186	0.265	020
CAT.M1 Band 13			1	0	0	Top Edge	0	23230	783.5	21.50	19.91	144.21%	0.172	0.248	-
CAT.M1 Band 13			1	0	0	Top Edge	0	23265	784.5	21.50	19.82	147.23%	0.162	0.244	-
CAT.M1 Band 13			1	0	0	Left Edge	0	23205	779.5	21.50	19.97	142.23%	0.002	0.003	-
CAT.M1 Band 13			1	0	0	Right Edge	0	23205	779.5	21.50	19.97	142.23%	0.021	0.030	-
CAT.M1 Band 14	5MHz	QPSK	1	0	0	Back Surface	0	23355	795.5	21.50	19.97	142.23%	0.038	0.054	-
CAT.M1 Band 14			1	0	0	Top Edge	0	23305	790.5	21.50	19.93	143.55%	0.155	0.223	-
CAT.M1 Band 14			1	0	0	Top Edge	0	23330	793	21.50	19.92	143.88%	0.158	0.227	-
CAT.M1 Band 14			1	0	0	Top Edge	0	23355	795.5	21.50	19.97	142.23%	0.164	0.233	021
CAT.M1 Band 14			1	0	0	Left Edge	0	23355	795.5	21.50	19.97	142.23%	0.004	0.006	-
CAT.M1 Band 14			1	0	0	Right Edge	0	23355	795.5	21.50	19.97	142.23%	0.019	0.027	-
CAT.M1 Band 25	5MHz	QPSK	1	0	0	Back Surface	0	26665	1912.5	21.50	20.10	138.04%	0.029	0.040	-
CAT.M1 Band 25			1	0	0	Top Edge	0	26005	1852.5	21.50	19.94	143.22%	0.150	0.215	022
CAT.M1 Band 25			1	0	0	Top Edge	0	26385	1882.5	21.50	19.99	141.58%	0.080	0.113	-
CAT.M1 Band 25			1	0	0	Top Edge	0	26665	1912.5	21.50	20.10	138.04%	0.137	0.188	-
CAT.M1 Band 25			1	0	0	Left Edge	0	26665	1912.5	21.50	20.10	138.04%	0.003	0.004	-
CAT.M1 Band 25			1	0	0	Right Edge	0	26665	1912.5	21.50	20.10	138.04%	0.015	0.021	-
CAT.M1 Band 26_FCC	5MHz	QPSK	1	0	0	Back Surface	0	26885	831.5	21.50	20.04	139.96%	0.035	0.048	-
CAT.M1 Band 26_FCC			1	0	0	Top Edge	0	26715	816.5	21.50	19.93	143.55%	0.115	0.165	-
CAT.M1 Band 26_FCC			1	0	0	Top Edge	0	26885	831.5	21.50	20.04	139.96%	0.141	0.197	023
CAT.M1 Band 26_FCC			1	0	0	Top Edge	0	27015	848.5	21.50	19.97	144.88%	0.125	0.162	-
CAT.M1 Band 26_FCC			1	0	0	Left Edge	0	26885	831.5	21.50	20.04	139.96%	0.003	0.003	-
CAT.M1 Band 26_FCC			1	0	0	Right Edge	0	26885	831.5	21.50	20.04	139.96%	0.019	0.027	-
CAT.M1 Band 66	5MHz	QPSK	1	0	0	Back Surface	0	132647	1777.5	21.50	20.16	136.14%	0.051	0.069	-
CAT.M1 Band 66			1	0	0	Top Edge	0	131997	1712.5	21.50	19.98	141.91%	0.294	0.417	-
CAT.M1 Band 66			1	0	0	Top Edge	0	132322	1745	21.50	19.87	145.55%	0.287	0.418	-
CAT.M1 Band 66			1	0	0	Top Edge	0	132647	1777.5	21.50	20.16	136.14%	0.309	0.421	025
CAT.M1 Band 66			1	0	0	Left Edge	0	132647	1777.5	21.50	20.16	136.14%	0.004	0.005	-
CAT.M1 Band 66			1	0	0	Right Edge	0	132647	1777.5	21.50	20.16	136.14%	0.039	0.053	-
CAT.M1 Band 85	5MHz	QPSK	1	0	0	Back Surface	0	134092	707	21.50	20.15	136.48%	0.049	0.067	-
CAT.M1 Band 85			1	0	0	Top Edge	0	134027	700.5	21.50	20.13	137.09%	0.188	0.258	-
CAT.M1 Band 85			1	0	0	Top Edge	0	134092	707	21.50	20.15	136.48%	0.197	0.269	026
CAT.M1 Band 85			1	0	0	Top Edge	0	134157	713.5	21.50	19.83	146.80%	0.174	0.256	-
CAT.M1 Band 85			1	0	0	Left Edge	0	134092	707	21.50	20.15	136.48%	0.002	0.003	-
CAT.M1 Band 85			1	0	0	Right Edge	0	134092	707	21.50	20.15	136.48%	0.026	0.035	-

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

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6.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

6.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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7 SIMULTANEOUS TRANSMISSION ANALYSIS

7.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WWAN + 2.4GHz WLAN Ant 1 + 2.4GHz WLAN Ant.2	YES
WWAN + 5GHz WLAN Ant 1 + 5GHz WLAN Ant.2	YES
WWAN + 2.4GHz WLAN Ant 2 + Bluetooth Ant 1	YES
WWAN + 5GHz WLAN Ant 2 + Bluetooth Ant 1	YES
WWAN + 5GHz WLAN Ant 1 + 5GHz WLAN Ant.2 + Bluetooth Ant 1	YES
WWAN + Bluetooth Ant 1 + 6GHz WLAN Ant.2	YES
WWAN + 6GHz WLAN Ant 1 + 6GHz WLAN Ant.2	YES
WWAN + Bluetooth Ant 1 + 6GHz WLAN Ant 1 + 6GHz WLAN Ant.2	YES

Note.

All of WLAN/BT SAR data can be referred to Intel SAR test report, Report No.:230117-02.TR02, 210916-08.TR02, 210916-08.TR01 and these results are used for simultaneous transmission analysis.

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7.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance (mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

7.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Simultaneous Transmission Combination

Vendor 1

	Exposure Position		FCC Reported SAR								Scenario 1	Scenario 2	Scenario 3	Scenario 4
			1	2	3	4	5	6	7	8	1+2+3	1+3+6	1+4+5+6	1+6+7+8
			WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 1 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 1 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	Bluetooth Ant 1 1g SAR (W/kg)	6GHz WLAN Ant 1 1g SAR (W/kg)	6GHz WLAN Ant 2 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
GPRS850 <1Dn4Up>	Back Surface	0	0.173	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.293	0.283	0.763	0.713
	Top Edge	0	0.654	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.574	1.364	2.154	2.314
	Left Edge	0	0.023		0.210		0.260			0.200	0.233	0.233	0.283	0.223
	Right Edge	0	0.127								0.127	0.127	0.127	0.127
GPRS1900 <1Dn4Up>	Back Surface	0	0.085	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.205	0.195	0.675	0.625
	Top Edge	0	0.487	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.407	1.197	1.987	2.147
	Left Edge	0	0.035		0.210		0.260			0.200	0.245	0.245	0.295	0.235
	Right Edge	0	0.215								0.215	0.215	0.215	0.215
CAT.M1 Band 2	Back Surface	0	0.020	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.140	0.130	0.610	0.560
	Top Edge	0	0.267	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.187	0.977	1.767	1.927
	Left Edge	0	0.001		0.210		0.260			0.200	0.211	0.211	0.261	0.201
	Right Edge	0	0.031								0.031	0.031	0.031	0.031
CAT.M1 Band 4	Back Surface	0	0.028	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.148	0.138	0.618	0.568
	Top Edge	0	0.186	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.106	0.896	1.686	1.846
	Left Edge	0	0.003		0.210		0.260			0.200	0.213	0.213	0.263	0.203
	Right Edge	0	0.024								0.024	0.024	0.024	0.024
CAT.M1 Band 5	Back Surface	0	0.044	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.164	0.154	0.634	0.584
	Top Edge	0	0.441	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.361	1.151	1.941	2.101
	Left Edge	0	0.001		0.210		0.260			0.200	0.211	0.211	0.261	0.201
	Right Edge	0	0.036								0.036	0.036	0.036	0.036
CAT.M1 Band 12	Back Surface	0	0.026	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.146	0.136	0.616	0.566
	Top Edge	0	0.405	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.325	1.115	1.905	2.065
	Left Edge	0	0.003		0.210		0.260			0.200	0.213	0.213	0.263	0.203
	Right Edge	0	0.015								0.015	0.015	0.015	0.015
CAT.M1 Band 13	Back Surface	0	0.036	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.156	0.146	0.626	0.576
	Top Edge	0	0.461	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.381	1.171	1.961	2.121
	Left Edge	0	0.003		0.210		0.260			0.200	0.213	0.213	0.263	0.203
	Right Edge	0	0.027								0.027	0.027	0.027	0.027
CAT.M1 Band 14	Back Surface	0	0.030	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.150	0.140	0.620	0.570
	Top Edge	0	0.458	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.378	1.168	1.958	2.118
	Left Edge	0	0.004		0.210		0.260			0.200	0.214	0.214	0.264	0.204
	Right Edge	0	0.030								0.030	0.030	0.030	0.030
CAT.M1 Band 25	Back Surface	0	0.026	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.146	0.136	0.616	0.566
	Top Edge	0	0.360	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.280	1.070	1.860	2.020
	Left Edge	0	0.003		0.210		0.260			0.200	0.213	0.213	0.263	0.203
	Right Edge	0	0.046								0.046	0.046	0.046	0.046
CAT.M1 Band 26_FCC	Back Surface	0	0.041	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.161	0.151	0.631	0.581
	Top Edge	0	0.403	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.323	1.113	1.903	2.063
	Left Edge	0	0.001		0.210		0.260			0.200	0.211	0.211	0.261	0.201
	Right Edge	0	0.035								0.035	0.035	0.035	0.035
CAT.M1 Band 66	Back Surface	0	0.040	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.160	0.150	0.630	0.580
	Top Edge	0	0.211	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.131	0.921	1.711	1.871
	Left Edge	0	0.003		0.210		0.260			0.200	0.213	0.213	0.263	0.203
	Right Edge	0	0.081								0.081	0.081	0.081	0.081
CAT.M1 Band 85	Back Surface	0	0.026	0.060	0.060	0.230	0.310	0.050	0.230	0.260	0.146	0.136	0.616	0.566
	Top Edge	0	0.382	0.260	0.660	0.490	0.960	0.050	0.480	1.130	1.302	1.092	1.882	2.042
	Left Edge	0	0.001		0.210		0.260			0.200	0.211	0.211	0.261	0.201
	Right Edge	0	0.015								0.015	0.015	0.015	0.015

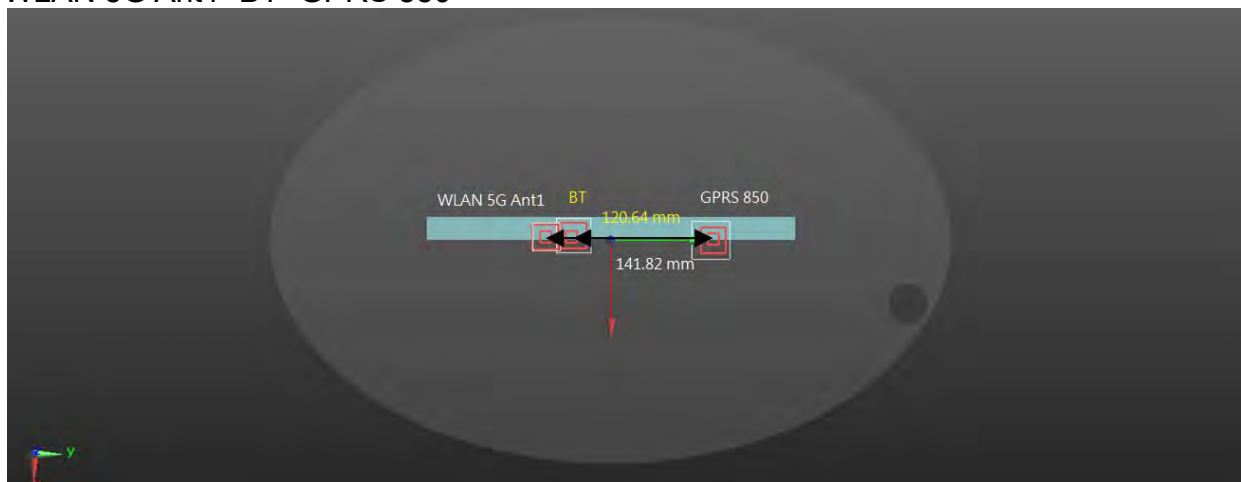
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Scenario 3:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 5G Ant 1+BT	0.540	-0.30	-3.46	-0.16	-	-	-	-
	GPRS 850	0.654	0.00	8.60	-0.15	1.194	120.64	0.011	SPLSR \leq 0.04, Not required
	GPRS 1900	0.487	-0.14	7.14	-0.16	1.027	106.01	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.267	-0.46	6.99	-0.15	0.807	104.51	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.186	-0.47	7.52	-0.15	0.726	109.81	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.441	-0.15	8.91	-0.14	0.981	123.71	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.405	-0.31	9.07	-0.15	0.945	125.30	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.461	-0.15	9.02	-0.14	1.001	124.81	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.458	-0.46	8.75	-0.15	0.998	122.11	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.360	-0.46	6.66	-0.15	0.900	101.21	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.403	-0.46	8.60	-0.15	0.943	120.61	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.211	-0.47	7.52	-0.15	0.751	109.81	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.382	-0.31	9.22	-0.14	0.922	126.80	0.007	SPLSR \leq 0.04, Not required

WLAN 5G Ant1+BT+GPRS 850

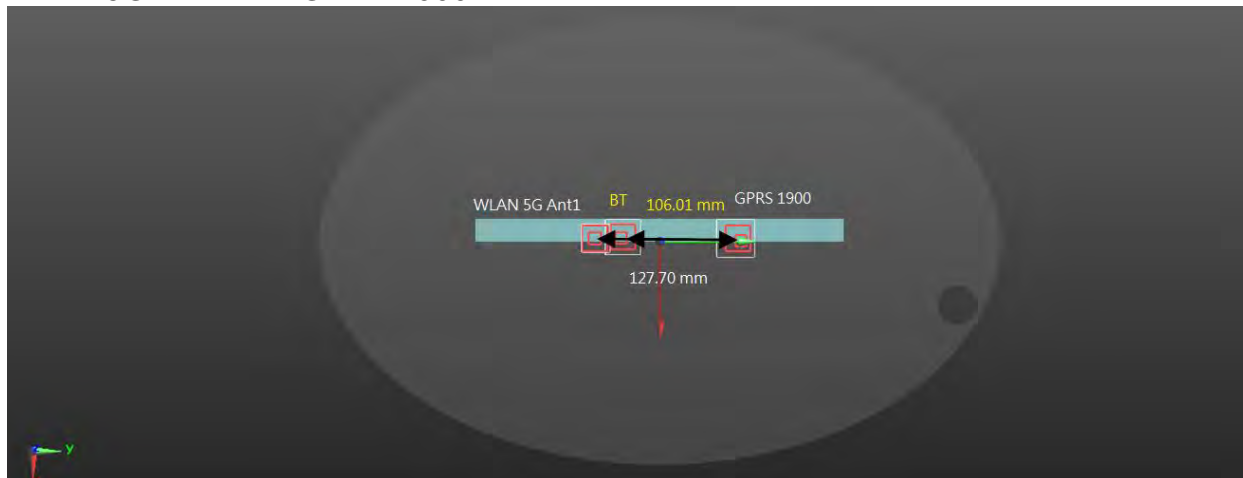


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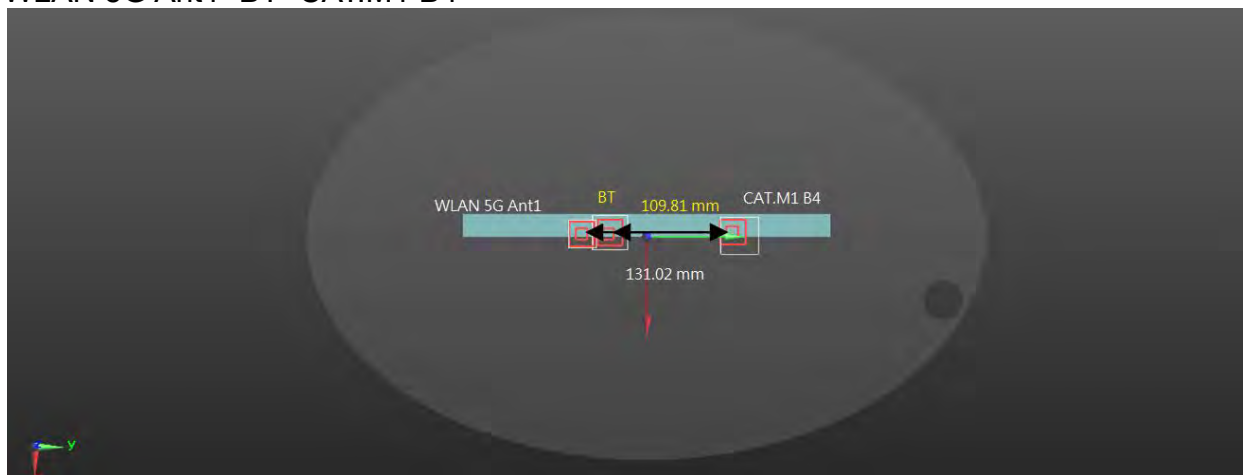
WLAN 5G Ant1+BT+GPRS 1900



WLAN 5G Ant1+BT+CAT.M1 B2



WLAN 5G Ant1+BT+CAT.M1 B4

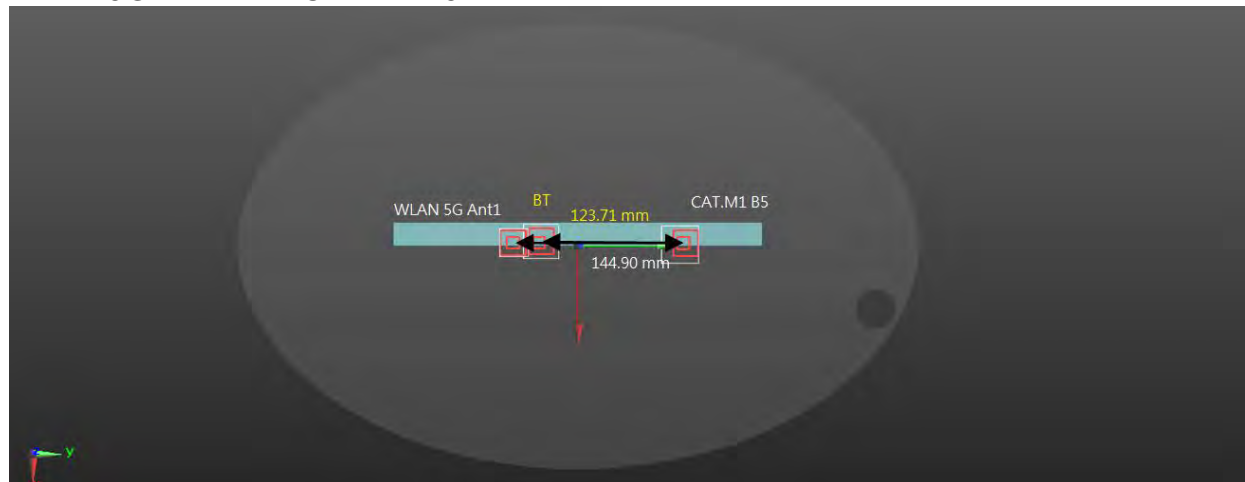


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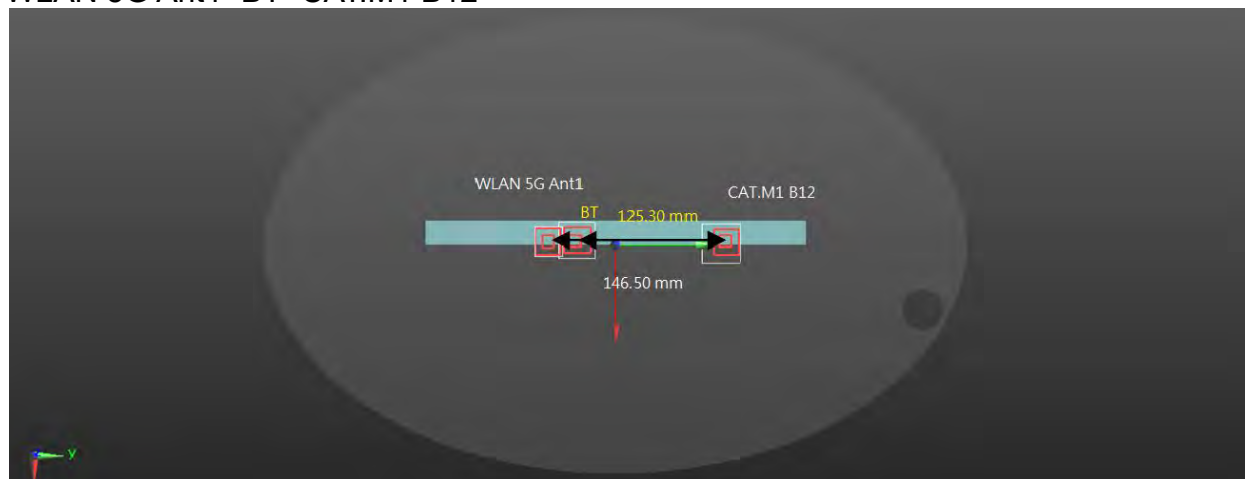
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WLAN 5G Ant1+BT+CAT.M1 B5



WLAN 5G Ant1+BT+CAT.M1 B12



WLAN 5G Ant1+BT+CAT.M1 B13

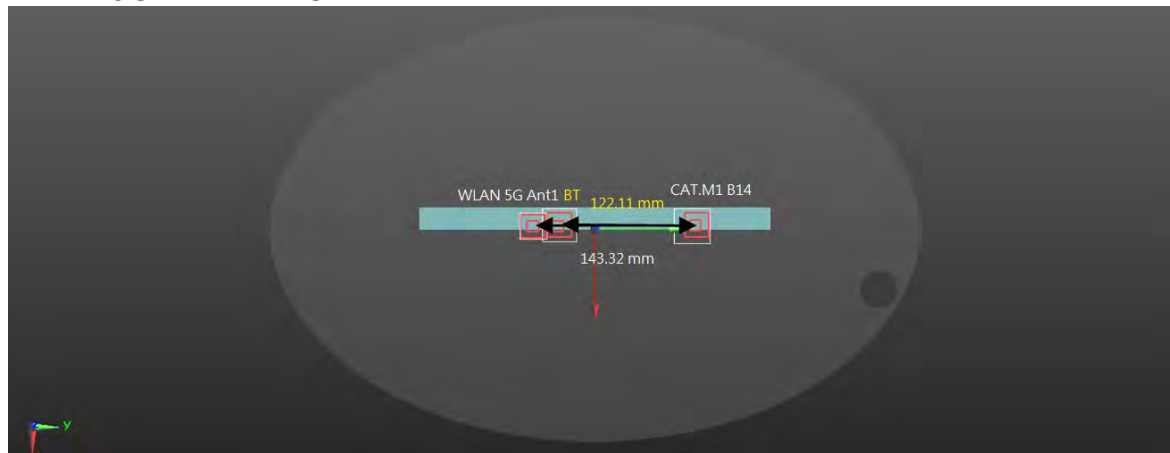


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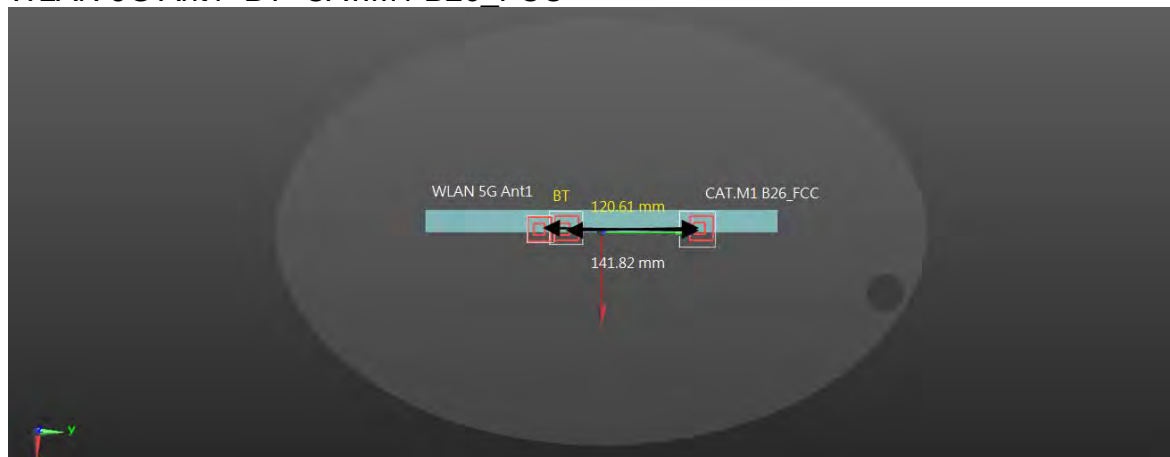
WLAN 5G Ant1+BT+CAT.M1 B14



WLAN 5G Ant1+BT+CAT.M1 B25



WLAN 5G Ant1+BT+CAT.M1 B26_FCC

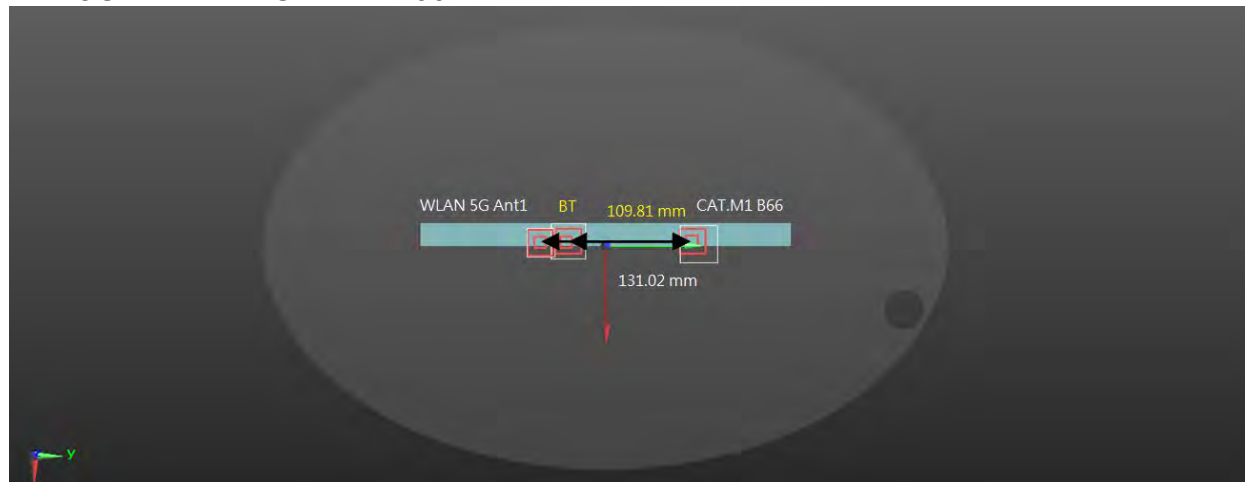


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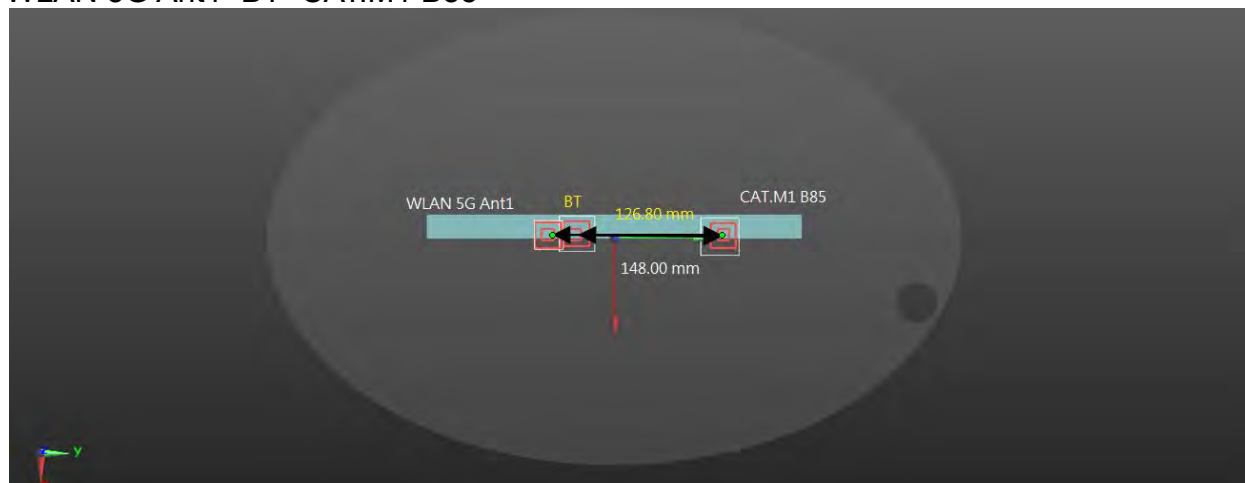
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LAN 5G Ant1+BT+CAT.M1 B66



WLAN 5G Ant1+BT+CAT.M1 B85



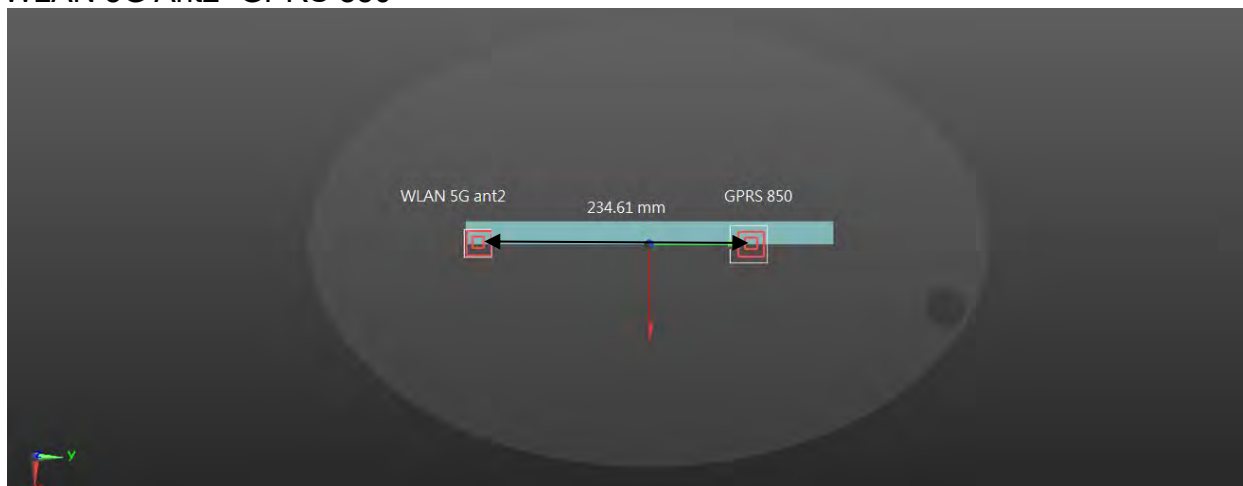
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Scenario 3:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 5G Ant 2	0.960	-0.18	-14.86	-0.17	-	-	-	-
	GSM850	0.654	0.00	8.60	-0.15	1.614	234.61	0.009	SPLSR \leq 0.04, Not required
	GSM1900	0.487	-0.14	7.14	-0.16	1.447	220.00	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.267	-0.46	6.99	-0.15	1.227	218.52	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.186	-0.47	7.52	-0.15	1.146	223.82	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.441	-0.15	8.91	-0.14	1.401	237.70	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.405	-0.31	9.07	-0.15	1.365	239.30	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.461	-0.15	9.02	-0.14	1.421	238.80	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.458	-0.46	8.75	-0.15	1.418	236.12	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.360	-0.46	6.66	-0.15	1.320	215.22	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.403	-0.46	8.60	-0.15	1.363	234.62	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.211	-0.47	7.52	-0.15	1.171	223.82	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.382	-0.31	9.22	-0.14	1.342	240.80	0.006	SPLSR \leq 0.04, Not required

WLAN 5G Ant2+GPRS 850

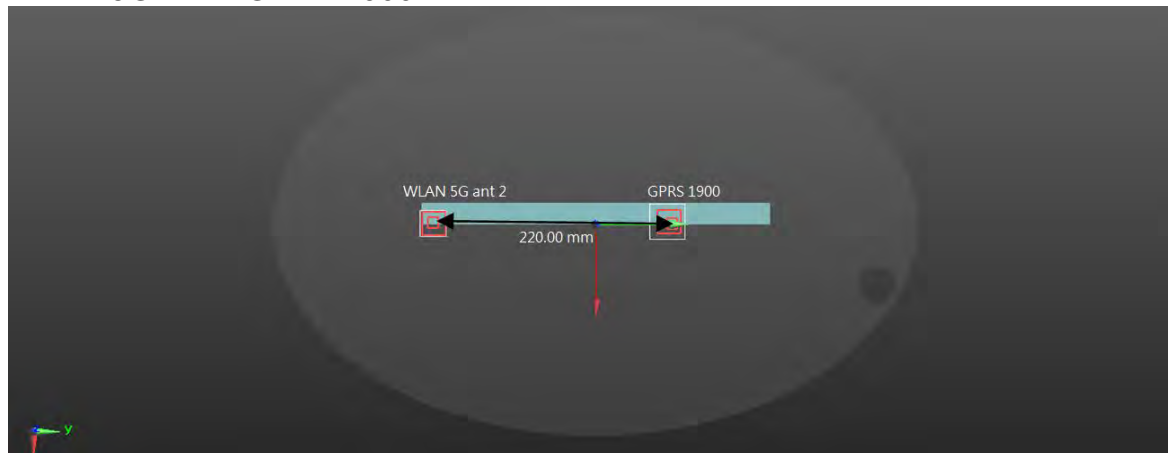


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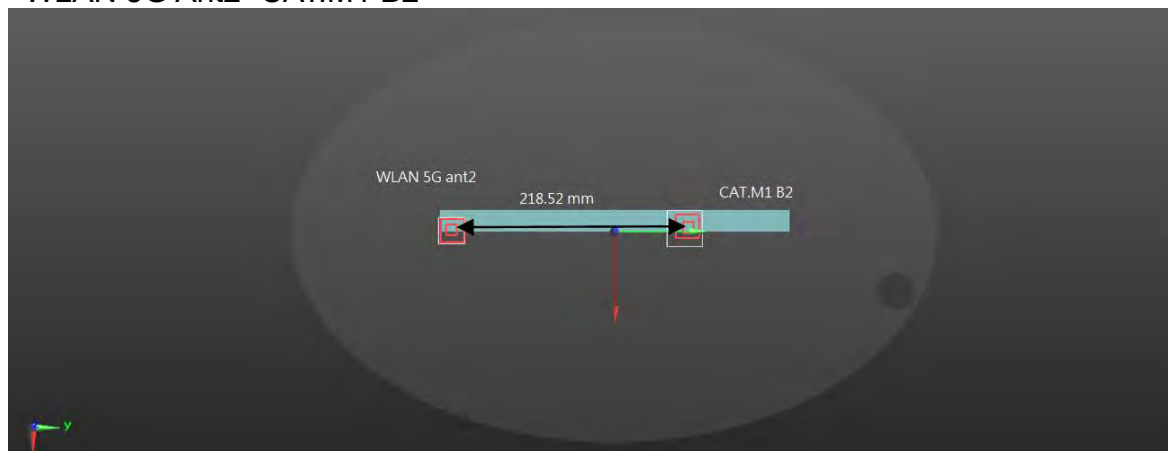
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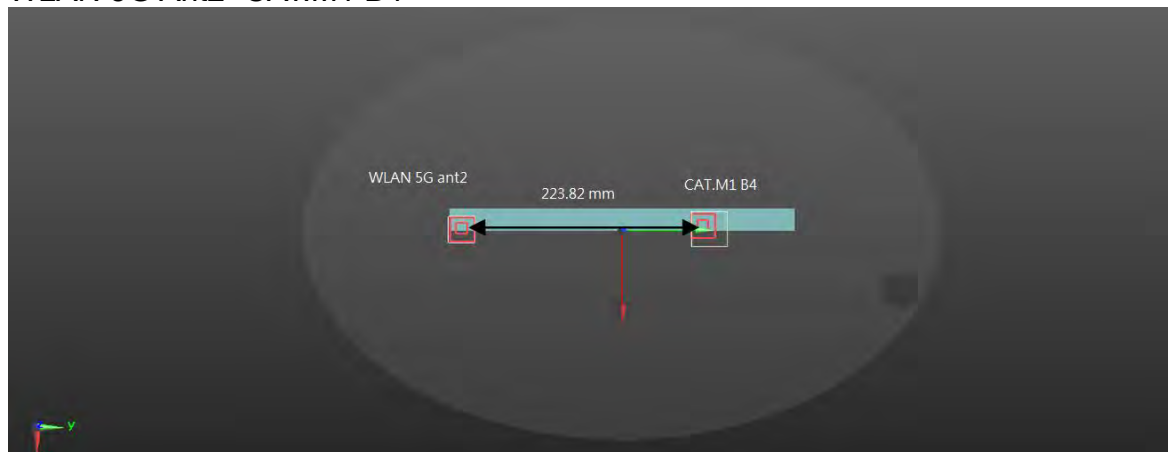
WLAN 5G Ant2+GPRS 1900



WLAN 5G Ant2+CAT.M1 B2



WLAN 5G Ant2+CAT.M1 B4

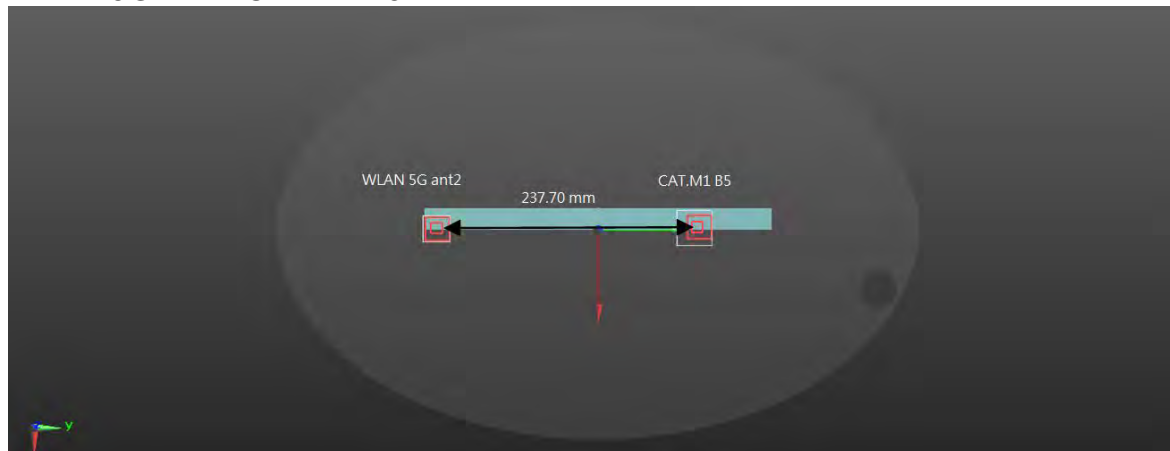


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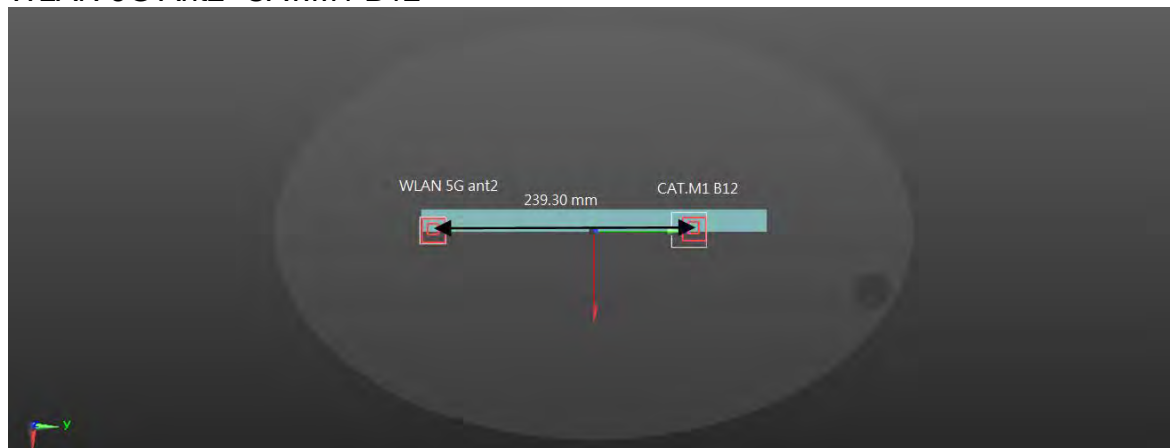
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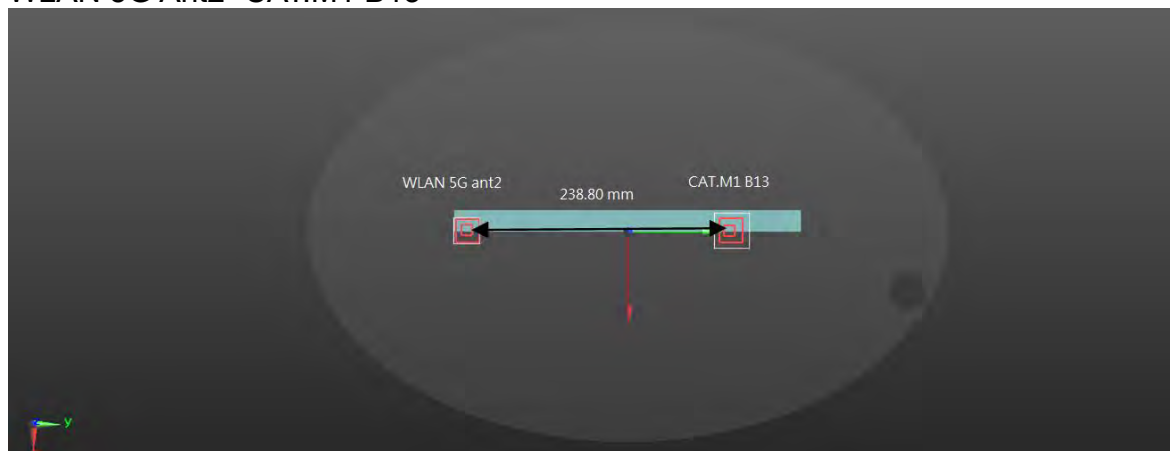
WLAN 5G Ant2+CAT.M1 B5



WLAN 5G Ant2+CAT.M1 B12



WLAN 5G Ant2+CAT.M1 B13



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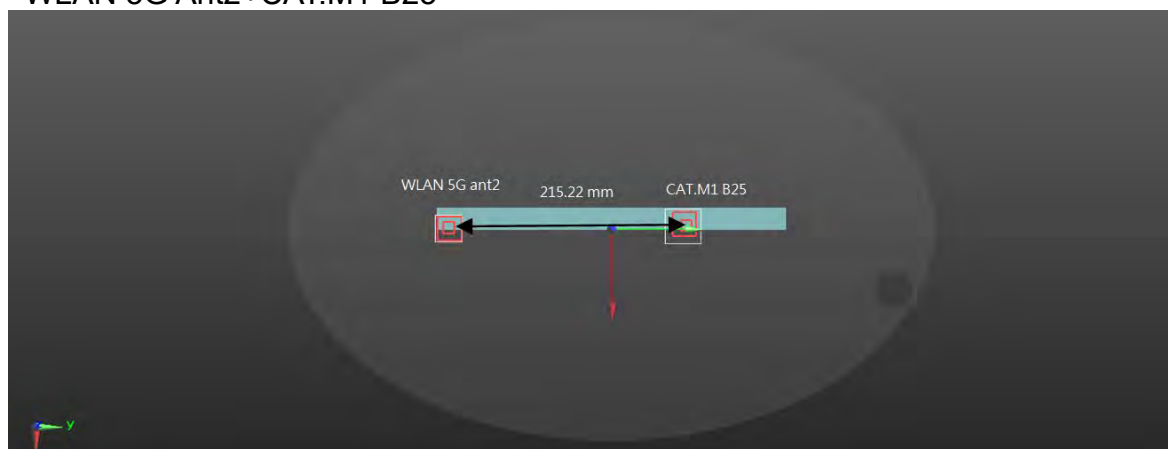
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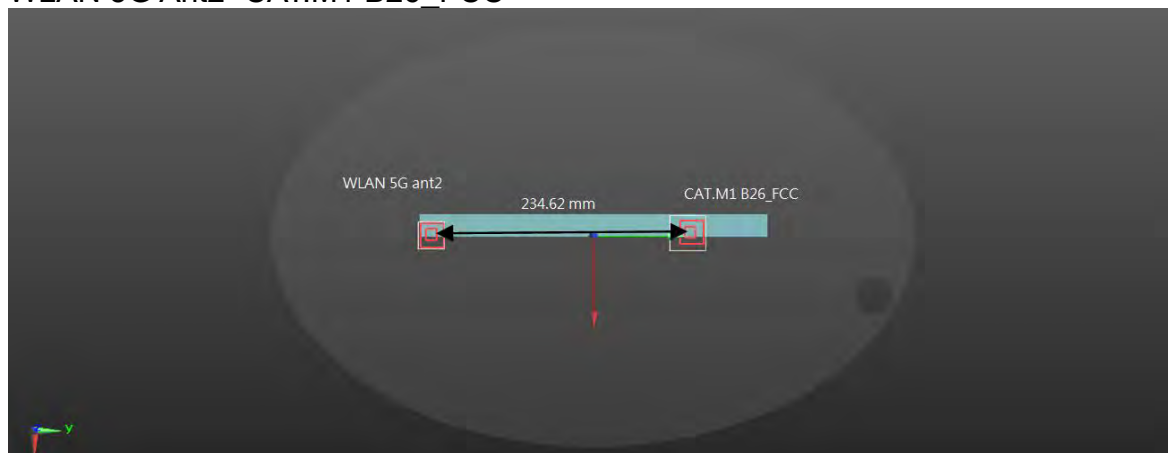
WLAN 5G Ant2+CAT.M1 B14



WLAN 5G Ant2+CAT.M1 B25



WLAN 5G Ant2+CAT.M1 B26_FCC

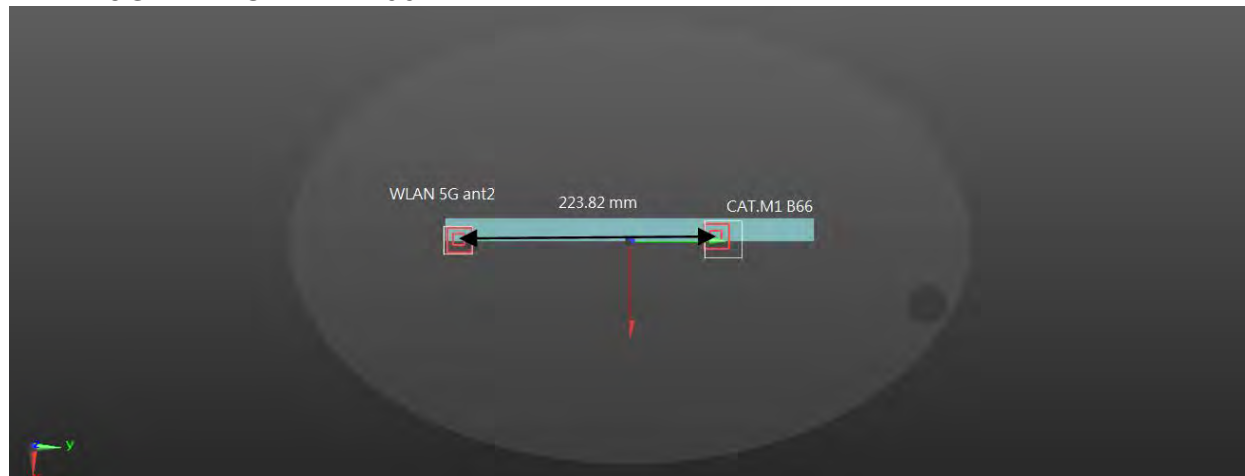


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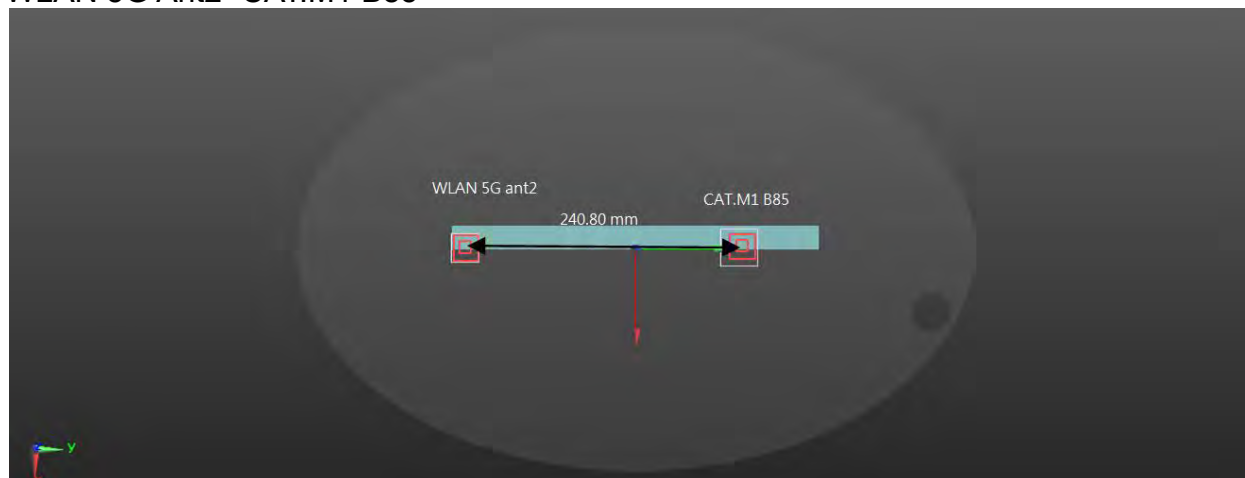
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WLAN 5G Ant2+CAT.M1 B66



WLAN 5G Ant2+CAT.M1 B85



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Scenario 4:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 6E Ant 1+BT	0.280	-0.30	-3.46	-0.16	-	-	-	-
	GPRS 850	0.654	0.00	8.60	-0.15	0.934	120.64	0.007	SPLSR \leq 0.04, Not required
	GPRS 1900	0.487	-0.14	7.14	-0.16	0.767	106.01	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.267	-0.46	6.99	-0.15	0.547	104.51	0.004	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.186	-0.47	7.52	-0.15	0.466	109.81	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.441	-0.15	8.91	-0.14	0.721	123.71	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.405	-0.31	9.07	-0.15	0.685	125.30	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.461	-0.15	9.02	-0.14	0.741	124.81	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.458	-0.46	8.75	-0.15	0.738	122.11	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.360	-0.46	6.66	-0.15	0.640	101.21	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.403	-0.46	8.60	-0.15	0.683	120.61	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.211	-0.47	7.52	-0.15	0.491	109.81	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.382	-0.31	9.22	-0.14	0.662	126.80	0.004	SPLSR \leq 0.04, Not required

Wifi 6E Ant1+BT+GPRS 850

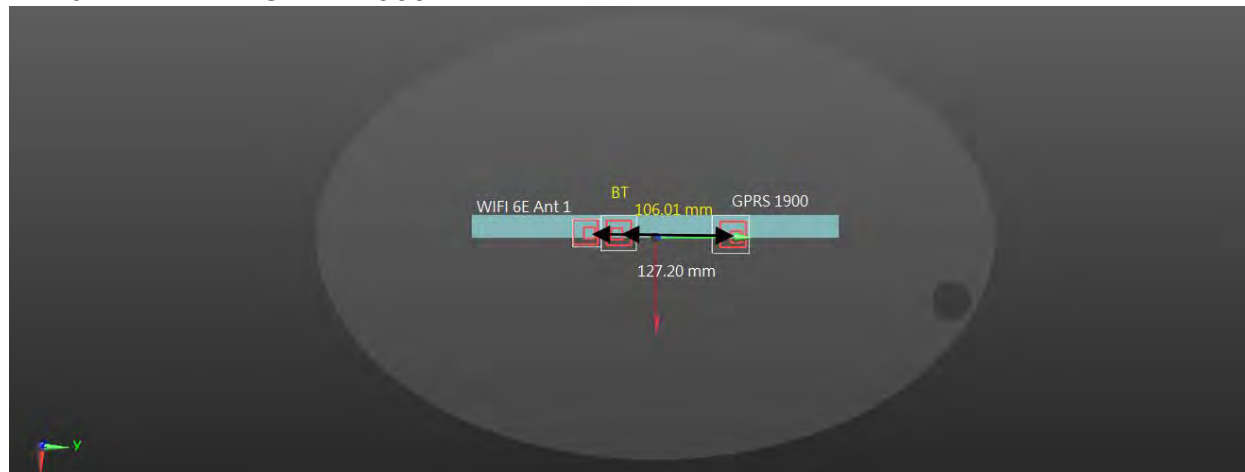


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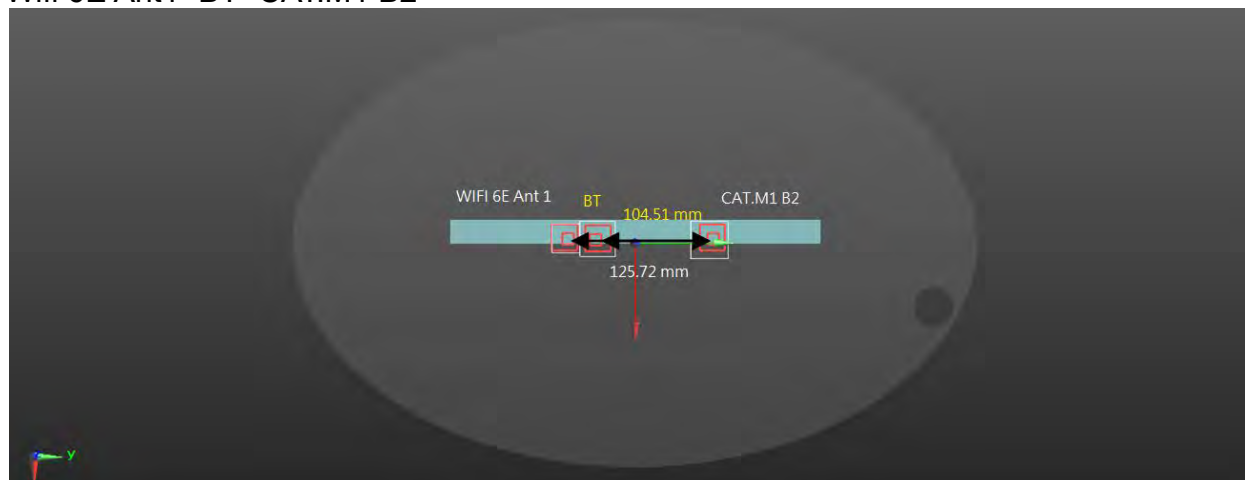
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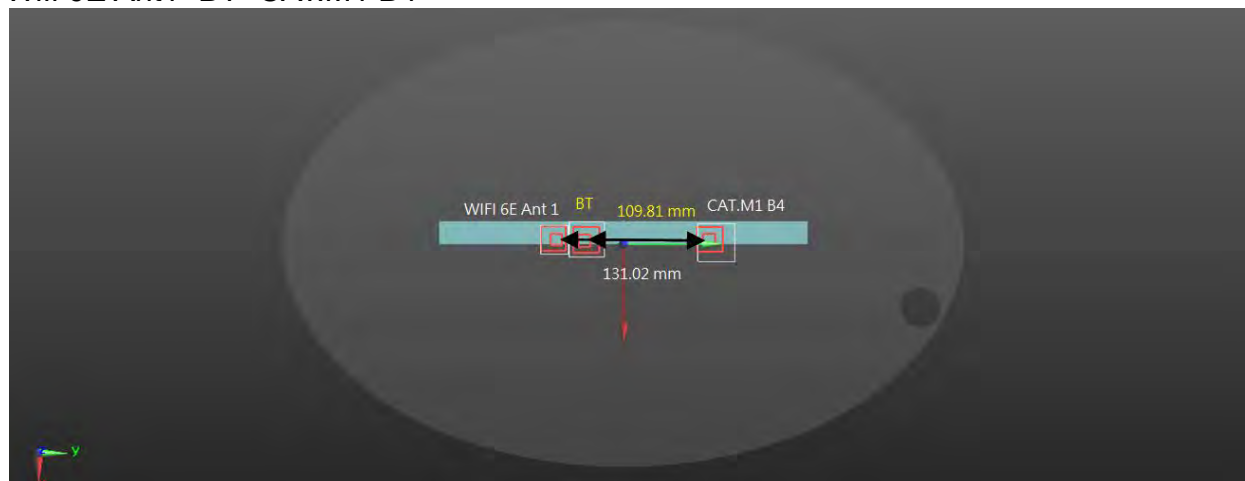
Wifi 6E Ant1+BT+GPRS 1900



Wifi 6E Ant1+BT+CAT.M1 B2



Wifi 6E Ant1+BT+CAT.M1 B4

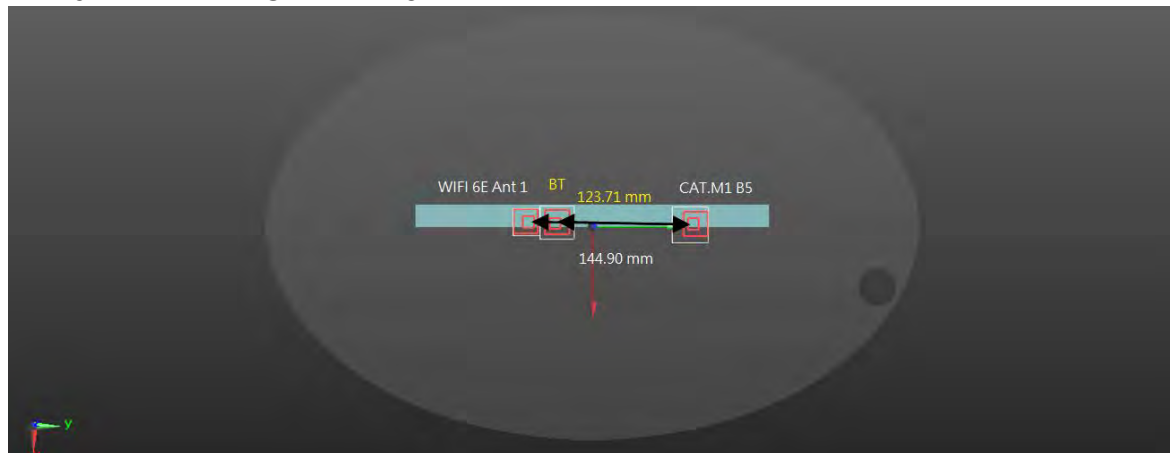


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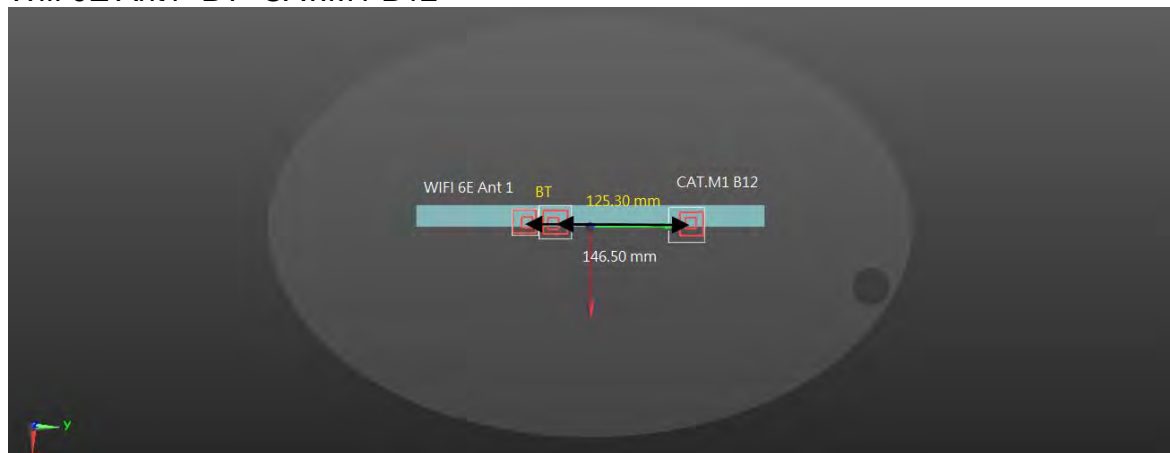
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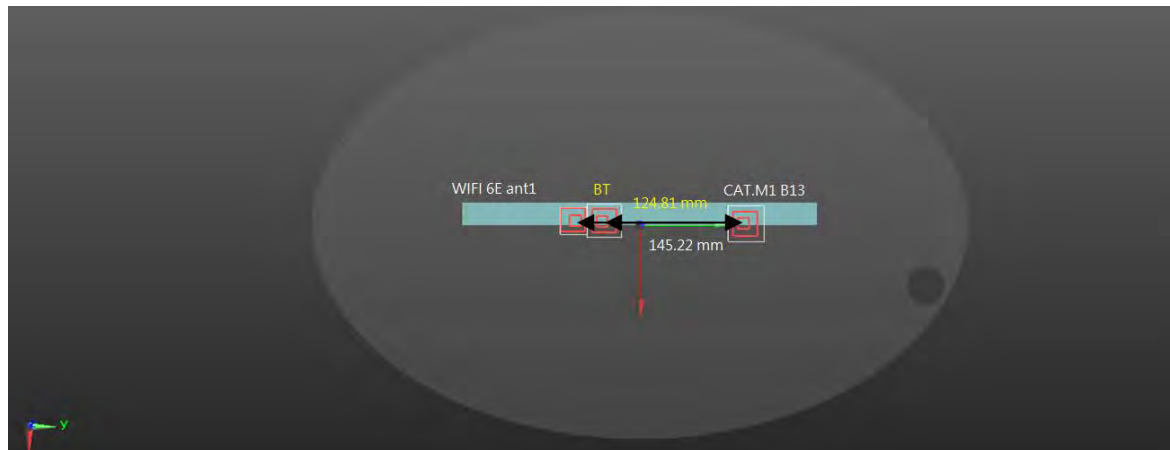
Wifi 6E Ant1+BT+CAT.M1 B5



Wifi 6E Ant1+BT+CAT.M1 B12



Wifi 6E Ant1+BT+CAT.M1 B13

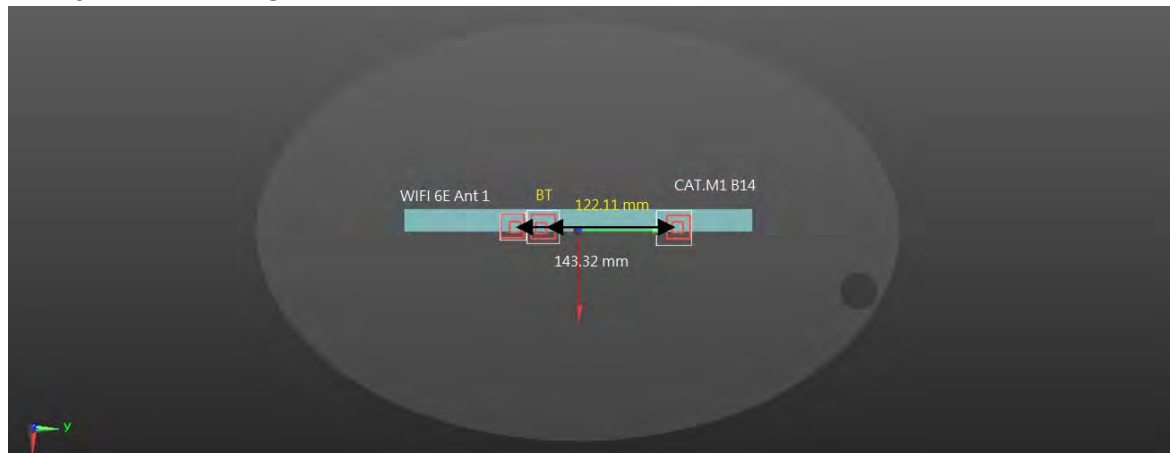


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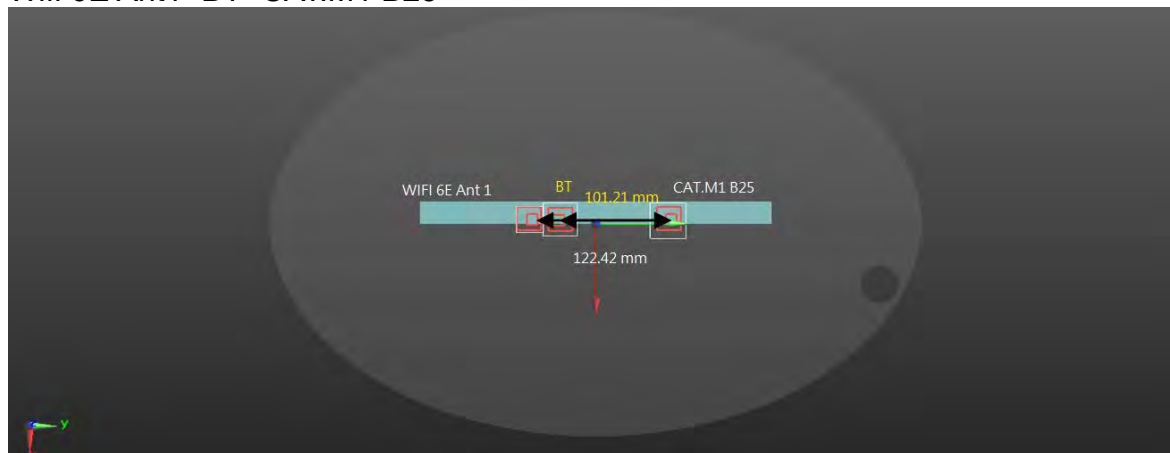
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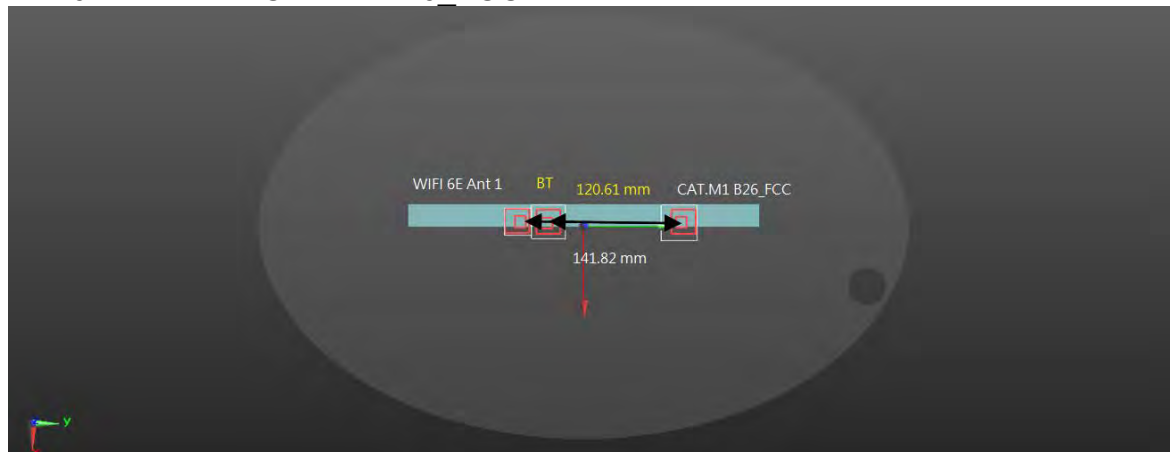
Wifi 6E Ant1+BT+CAT.M1 B14



Wifi 6E Ant1+BT+CAT.M1 B25



Wifi 6E Ant1+BT+CAT.M1 B26_FCC

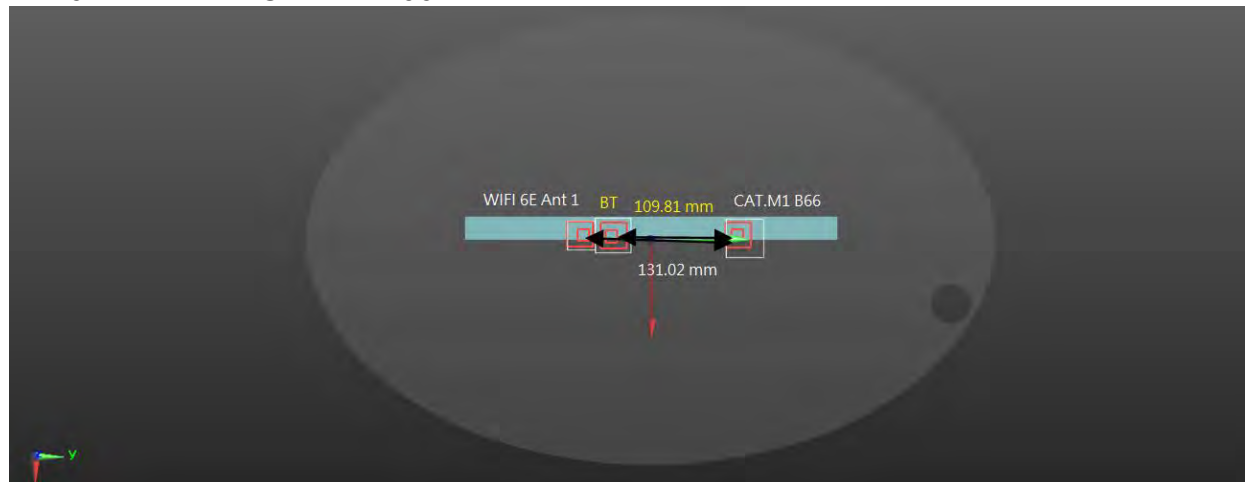


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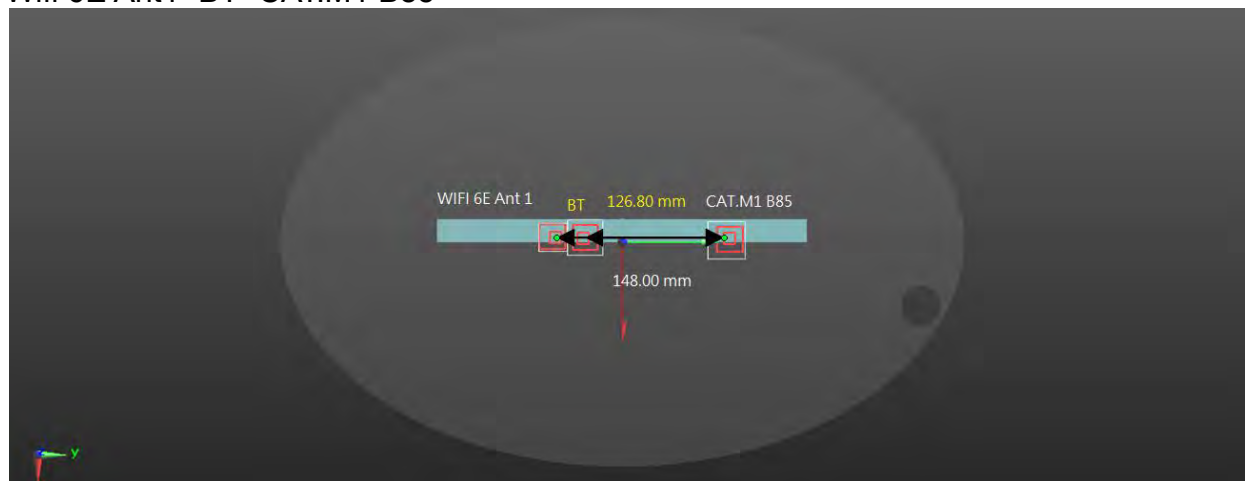
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Wifi 6E Ant1+BT+CAT.M1 B66



Wifi 6E Ant1+BT+CAT.M1 B85



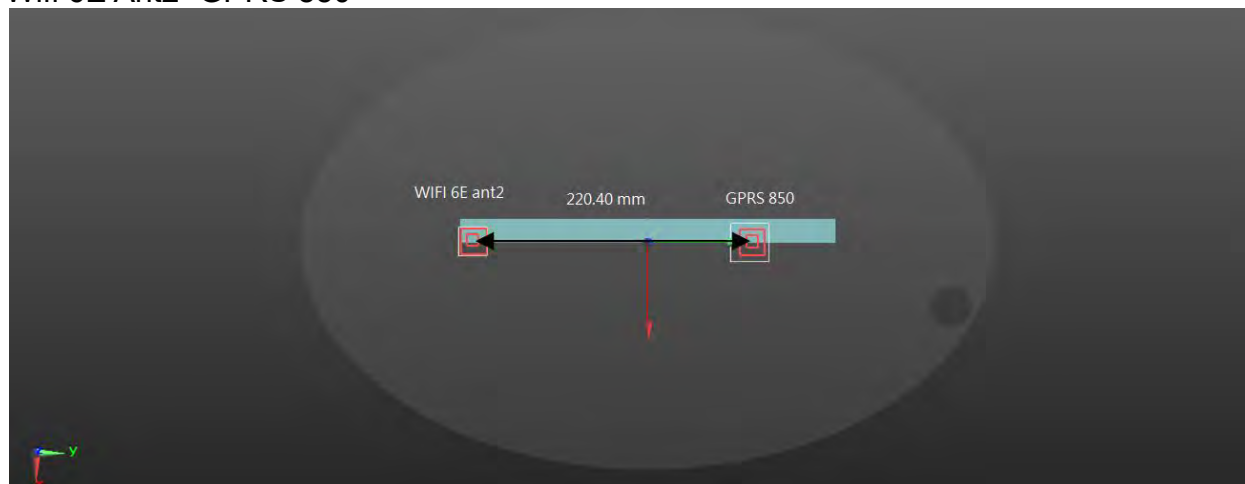
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Scenario 4:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 6E Ant 2	0.260	-0.12	-13.44	-0.17	-	-	-	-
	GSM850	0.654	0.00	8.60	-0.15	0.914	220.40	0.004	SPLSR \leq 0.04, Not required
	GSM1900	0.487	-0.14	7.14	-0.16	0.747	205.80	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.267	-0.46	6.99	-0.15	0.527	204.33	0.002	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.186	-0.47	7.52	-0.15	0.446	209.63	0.001	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.441	-0.15	8.91	-0.14	0.701	223.50	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.405	-0.31	9.07	-0.15	0.665	225.11	0.002	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.461	-0.15	9.02	-0.14	0.721	224.60	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.458	-0.46	8.75	-0.15	0.718	221.93	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.360	-0.46	6.66	-0.15	0.620	201.03	0.002	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.403	-0.46	8.60	-0.15	0.663	220.43	0.002	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.211	-0.47	7.52	-0.15	0.471	209.63	0.002	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.382	-0.31	9.22	-0.14	0.642	226.61	0.002	SPLSR \leq 0.04, Not required

Wifi 6E Ant2+GPRS 850

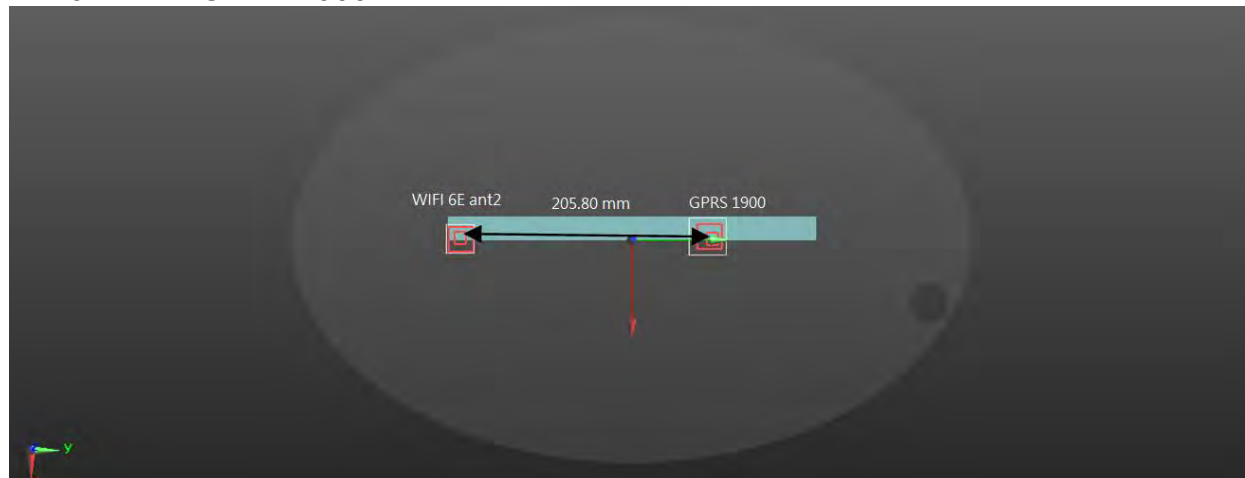


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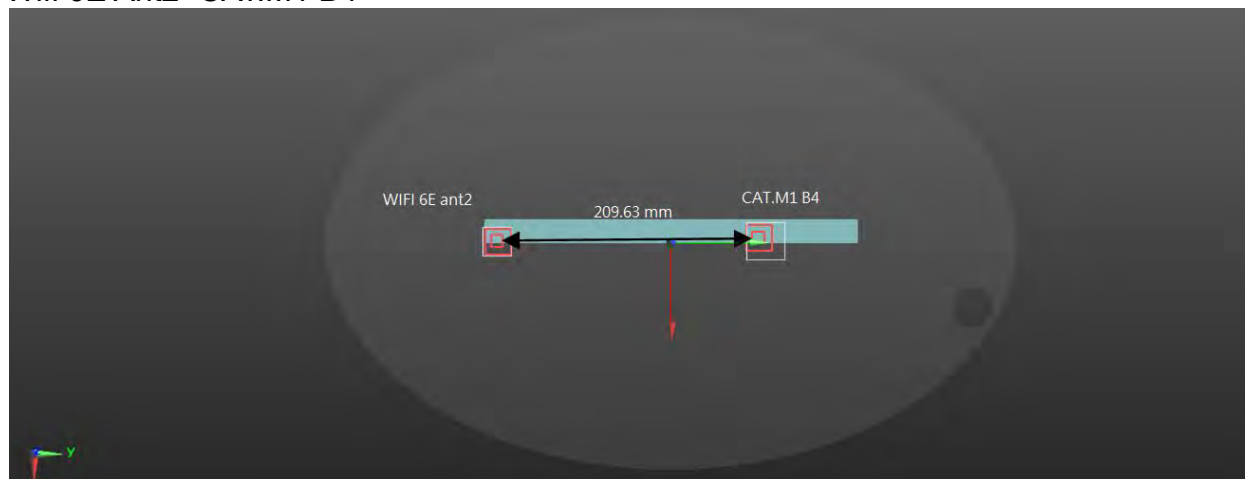
Wifi 6E Ant2+GPRS 1900



Wifi 6E Ant2+CAT.M1 B2



Wifi 6E Ant2+CAT.M1 B4

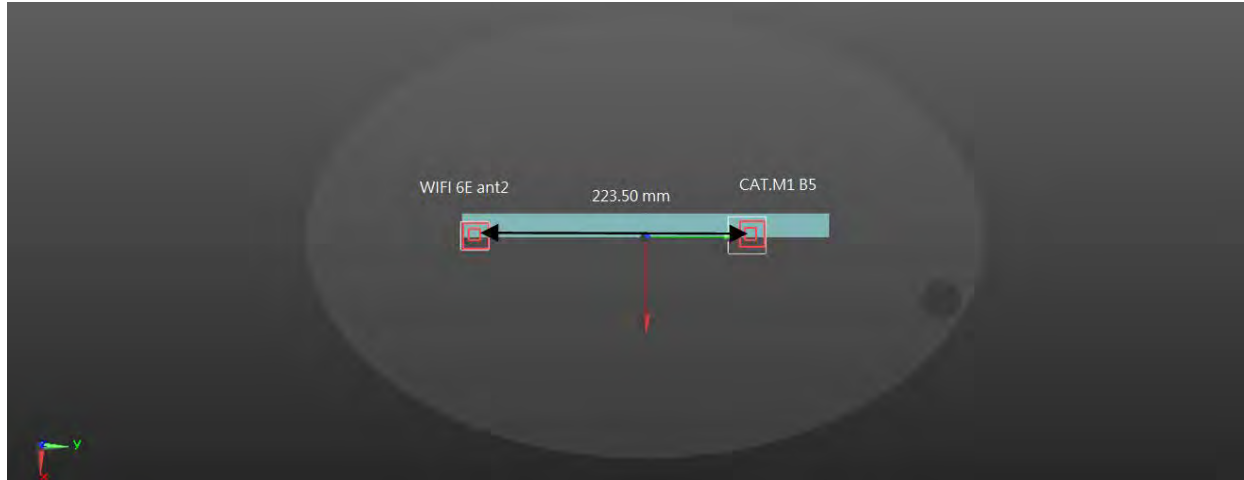


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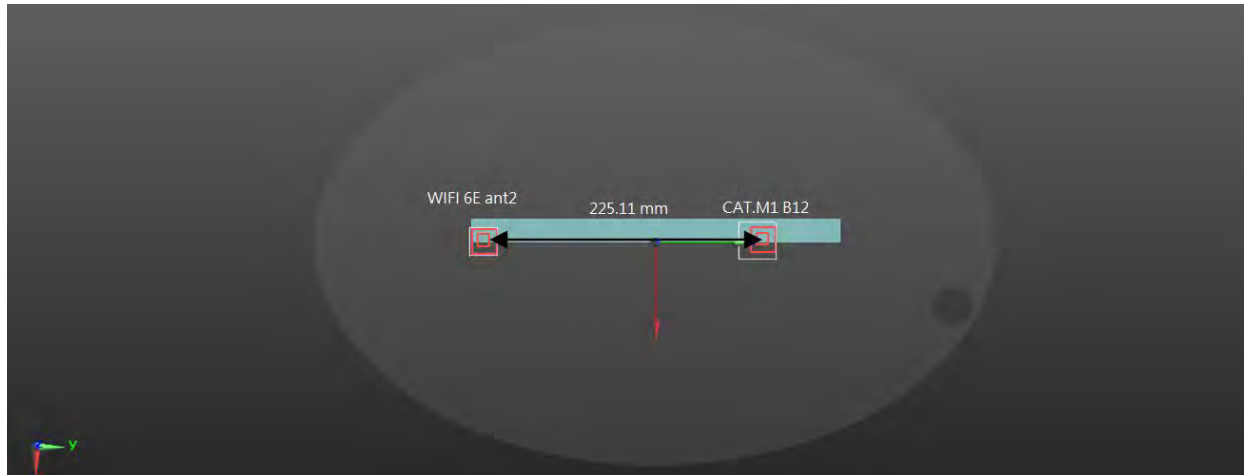
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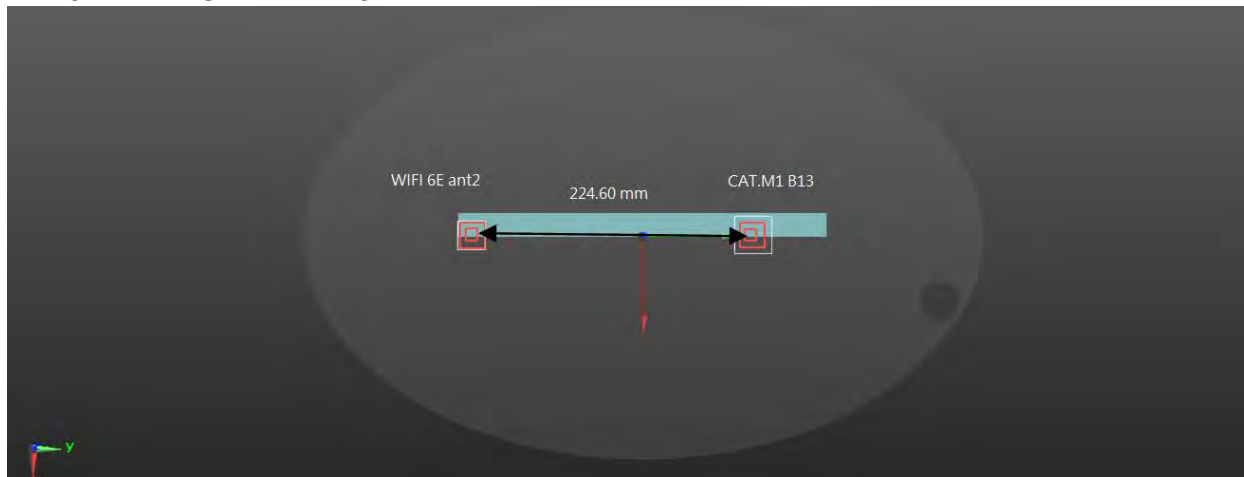
Wifi 6E Ant2+CAT.M1 B5



Wifi 6E Ant2+CAT.M1 B12



Wifi 6E Ant2+CAT.M1 B13

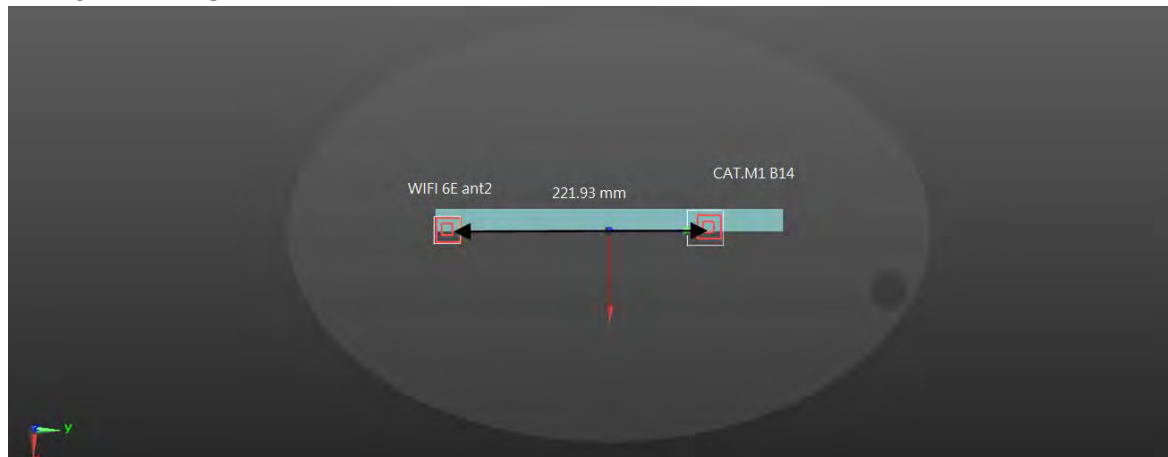


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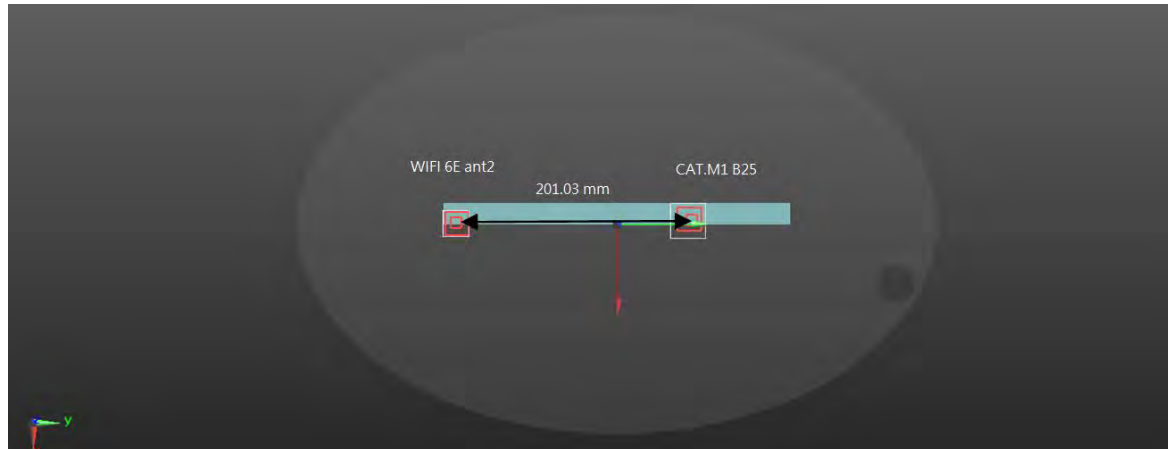
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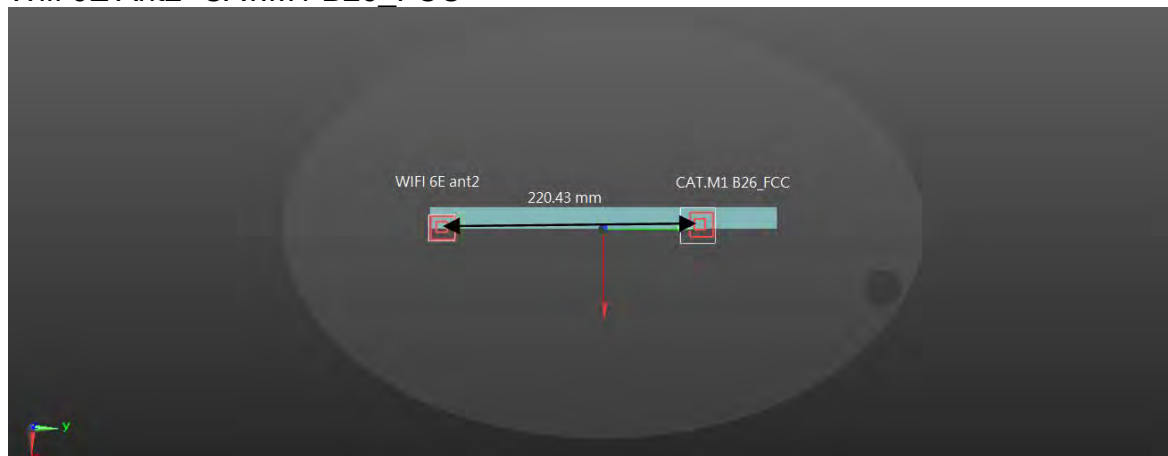
Wifi 6E Ant2+CAT.M1 B14



Wifi 6E Ant2+CAT.M1 B25



Wifi 6E Ant2+CAT.M1 B26 FCC

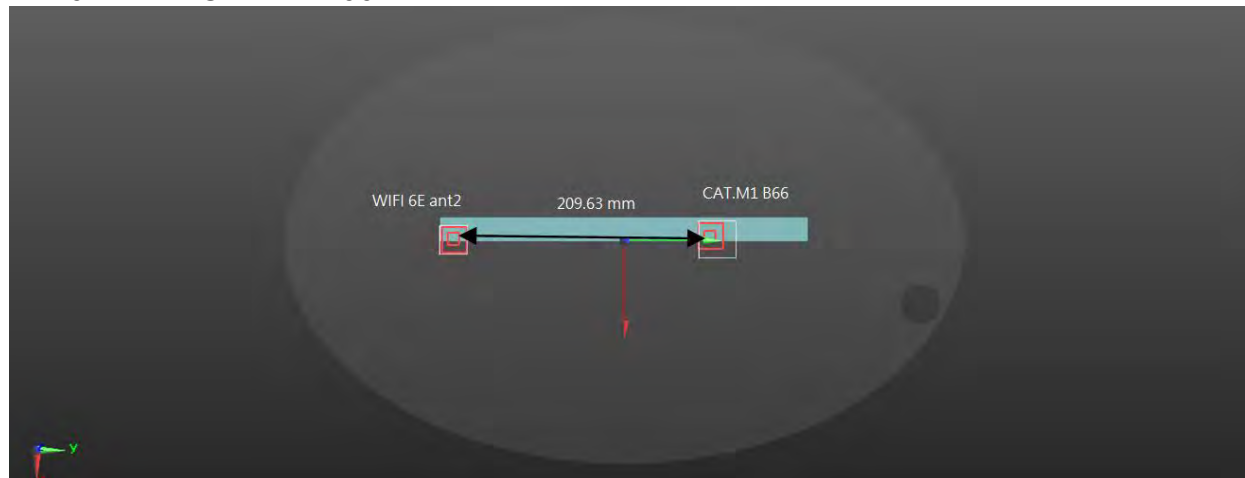


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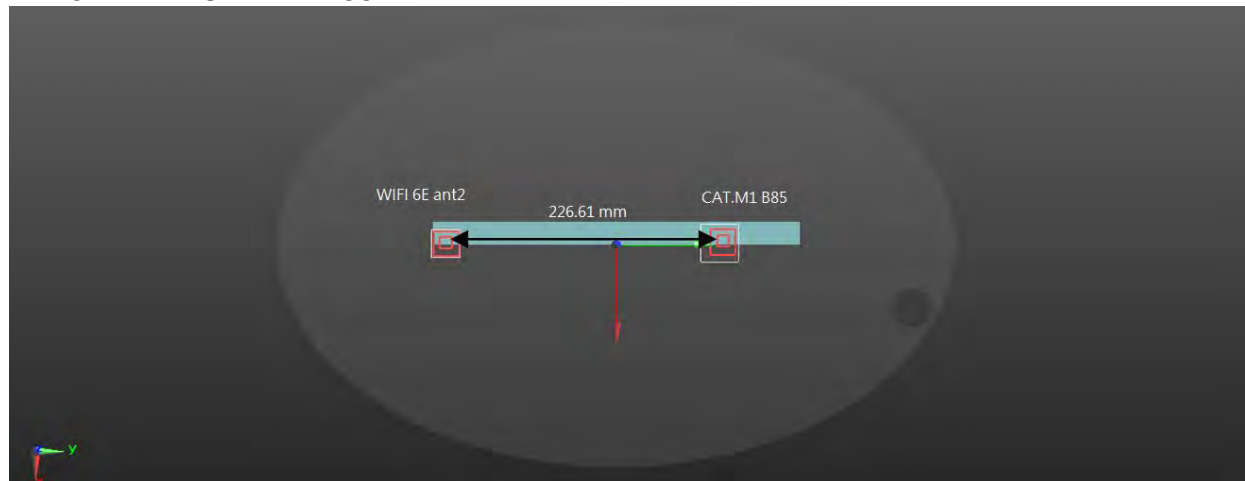
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Wifi 6E Ant2+CAT.M1 B66



Wifi 6E Ant2+CAT.M1 B85



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Vendor 2

	Exposure Position		FCC Reported SAR								Scenario 1	Scenario 2	Scenario 3	Scenario 4
			1	2	3	4	5	6	7	8	1+2+3	1+3+6	1+4+5+6	1+6+7+8
			WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 1 1g SAR (W/kg)	2.4GHz WLAN Ant 2 1g SAR (W/kg)	5GHz WLAN Ant 1 1g SAR (W/kg)	5GHz WLAN Ant 2 1g SAR (W/kg)	Bluetooth Ant 1 1g SAR (W/kg)	6GHz WLAN Ant 1 1g SAR (W/kg)	6GHz WLAN Ant 2 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
GPRS850 <1Dn4Up>	Back Surface	0	0.246	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.366	0.326	0.656	0.626
	Top Edge	0	1.154	1.160	0.970	0.730	1.020	0.180	0.330	0.730	3.284	2.304	3.084	2.394
	Left Edge	0	0.048		0.270		0.260			0.090	0.318	0.318	0.308	0.138
	Right Edge	0	0.186								0.186	0.186	0.186	0.186
GPRS1900 <1Dn4Up>	Back Surface	0	0.133	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.253	0.213	0.543	0.513
	Top Edge	0	1.131	1.160	0.970	0.730	1.020	0.180	0.330	0.730	3.261	2.281	3.061	2.371
	Left Edge	0	0.029		0.270		0.260			0.090	0.299	0.299	0.289	0.119
	Right Edge	0	0.076								0.076	0.076	0.076	0.076
CAT.M1 Band 2	Back Surface	0	0.024	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.144	0.104	0.434	0.404
	Top Edge	0	0.243	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.373	1.393	2.173	1.483
	Left Edge	0	0.004		0.270		0.260			0.090	0.274	0.274	0.264	0.094
	Right Edge	0	0.035								0.035	0.035	0.035	0.035
CAT.M1 Band 4	Back Surface	0	0.062	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.182	0.142	0.472	0.442
	Top Edge	0	0.405	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.535	1.555	2.335	1.645
	Left Edge	0	0.007		0.270		0.260			0.090	0.277	0.277	0.267	0.097
	Right Edge	0	0.048								0.048	0.048	0.048	0.048
CAT.M1 Band 5	Back Surface	0	0.041	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.161	0.121	0.451	0.421
	Top Edge	0	0.193	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.323	1.343	2.123	1.433
	Left Edge	0	0.004		0.270		0.260			0.090	0.274	0.274	0.264	0.094
	Right Edge	0	0.025								0.025	0.025	0.025	0.025
CAT.M1 Band 12	Back Surface	0	0.082	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.202	0.162	0.492	0.462
	Top Edge	0	0.277	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.407	1.427	2.207	1.517
	Left Edge	0	0.010		0.270		0.260			0.090	0.280	0.280	0.270	0.100
	Right Edge	0	0.035								0.035	0.035	0.035	0.035
CAT.M1 Band 13	Back Surface	0	0.061	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.181	0.141	0.471	0.441
	Top Edge	0	0.265	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.395	1.415	2.195	1.505
	Left Edge	0	0.003		0.270		0.260			0.090	0.273	0.273	0.263	0.093
	Right Edge	0	0.030								0.030	0.030	0.030	0.030
CAT.M1 Band 14	Back Surface	0	0.054	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.174	0.134	0.464	0.434
	Top Edge	0	0.233	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.363	1.383	2.163	1.473
	Left Edge	0	0.006		0.270		0.260			0.090	0.276	0.276	0.266	0.096
	Right Edge	0	0.027								0.027	0.027	0.027	0.027
CAT.M1 Band 25	Back Surface	0	0.040	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.160	0.120	0.450	0.420
	Top Edge	0	0.215	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.345	1.365	2.145	1.455
	Left Edge	0	0.004		0.270		0.260			0.090	0.274	0.274	0.264	0.094
	Right Edge	0	0.021								0.021	0.021	0.021	0.021
CAT.M1 Band 26_FCC	Back Surface	0	0.049	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.169	0.129	0.459	0.429
	Top Edge	0	0.197	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.327	1.347	2.127	1.437
	Left Edge	0	0.003		0.270		0.260			0.090	0.273	0.273	0.263	0.093
	Right Edge	0	0.027								0.027	0.027	0.027	0.027
CAT.M1 Band 66	Back Surface	0	0.069	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.189	0.149	0.479	0.449
	Top Edge	0	0.421	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.561	1.571	2.351	1.661
	Left Edge	0	0.005		0.270		0.260			0.090	0.275	0.275	0.265	0.095
	Right Edge	0	0.053								0.053	0.053	0.053	0.053
CAT.M1 Band 85	Back Surface	0	0.067	0.060	0.060	0.270	0.120	0.020	0.170	0.190	0.187	0.147	0.477	0.447
	Top Edge	0	0.269	1.160	0.970	0.730	1.020	0.180	0.330	0.730	2.399	1.419	2.199	1.509
	Left Edge	0	0.003		0.270		0.260			0.090	0.273	0.273	0.263	0.093
	Right Edge	0	0.035								0.035	0.035	0.035	0.035

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Scenario 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 2.4G Ant 1	1.160	-0.30	-3.68	-0.15	-	-	-	-
	GPRS 850	1.154	-0.16	7.97	-0.11	2.314	116.51	0.030	SPLSR \leq 0.04, Not required
	GPRS 1900	1.131	-0.31	9.04	-0.10	2.291	127.20	0.027	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.243	-0.15	12.04	-0.17	1.403	157.21	0.011	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.405	-0.29	11.63	-0.17	1.565	153.10	0.013	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.193	-0.46	6.85	-0.19	1.353	105.31	0.015	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.277	-0.31	9.23	-0.18	1.437	129.10	0.013	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.265	-0.30	8.60	-0.19	1.425	122.80	0.014	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.233	-0.15	12.04	-0.17	1.393	157.21	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.215	-3.00	8.45	-0.18	1.375	124.27	0.013	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.197	-0.30	8.45	-0.18	1.357	121.30	0.013	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.421	-0.30	11.79	-0.17	1.581	154.70	0.013	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.269	-0.31	9.05	-0.19	1.429	127.30	0.013	SPLSR \leq 0.04, Not required

WLAN Aux 2.45G +GPRS 850

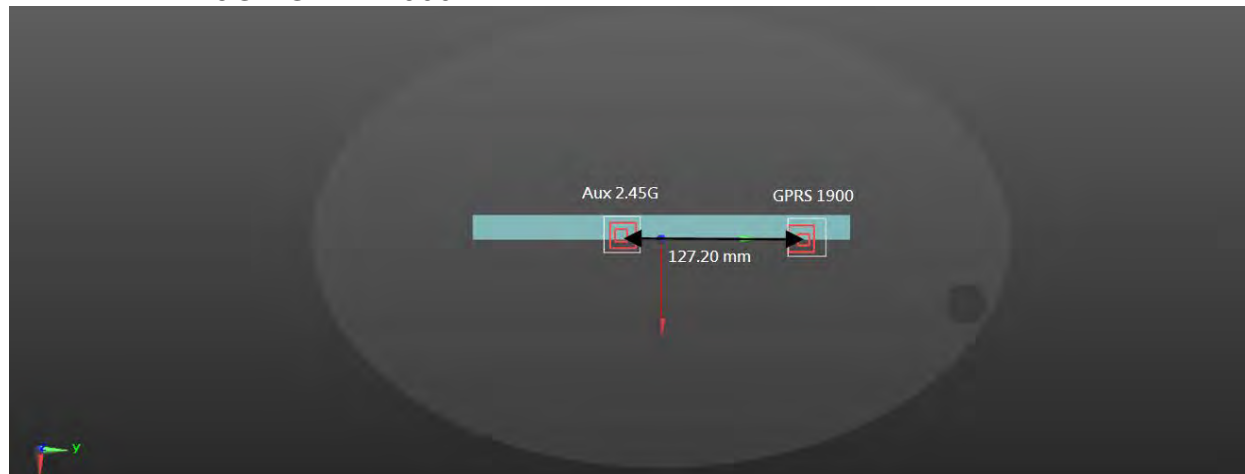


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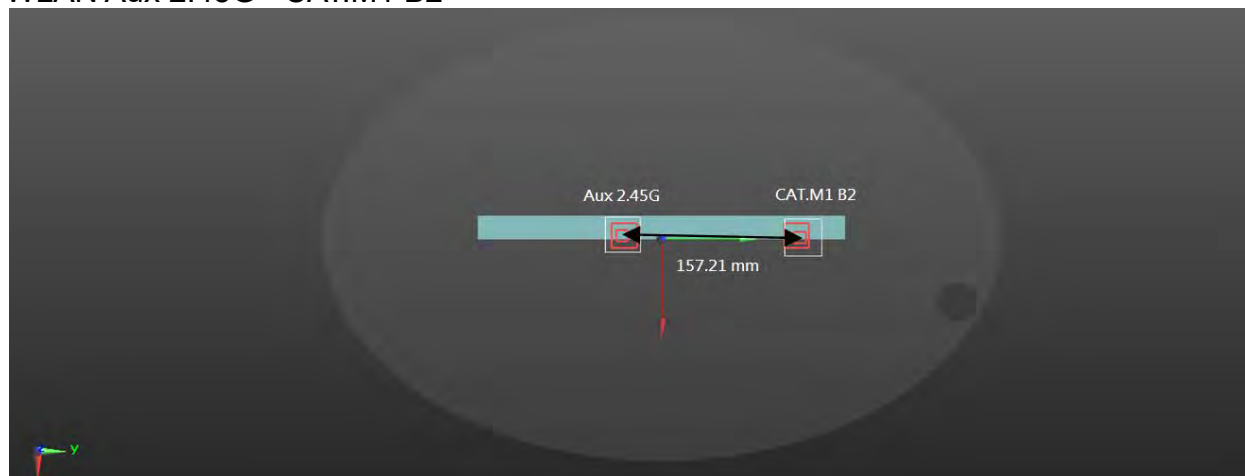
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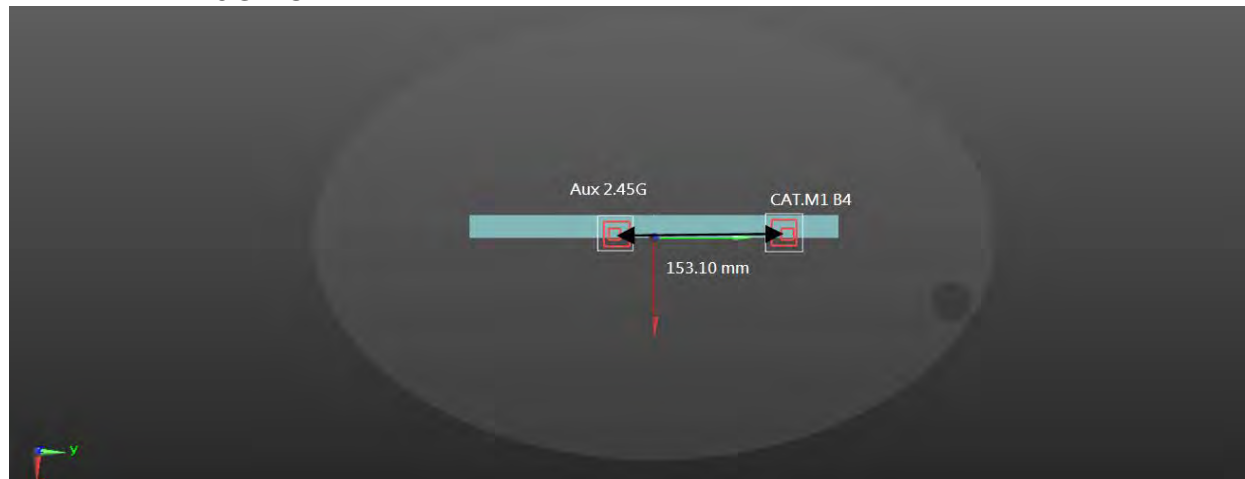
WLAN Aux 2.45G +GPRS 1900



WLAN Aux 2.45G +CAT.M1 B2



WLAN Aux 2.45G +CAT.M1 B4

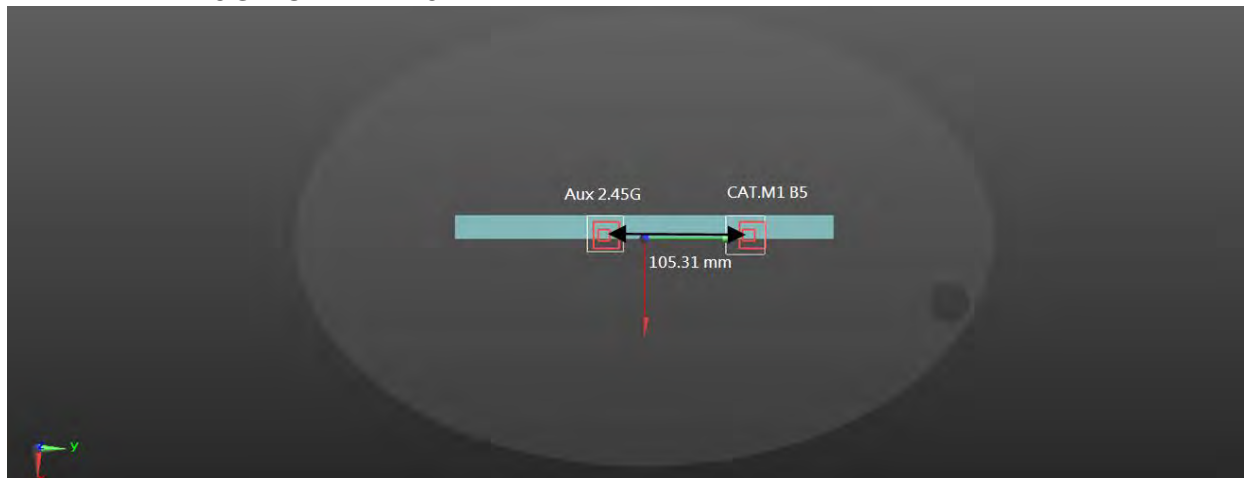


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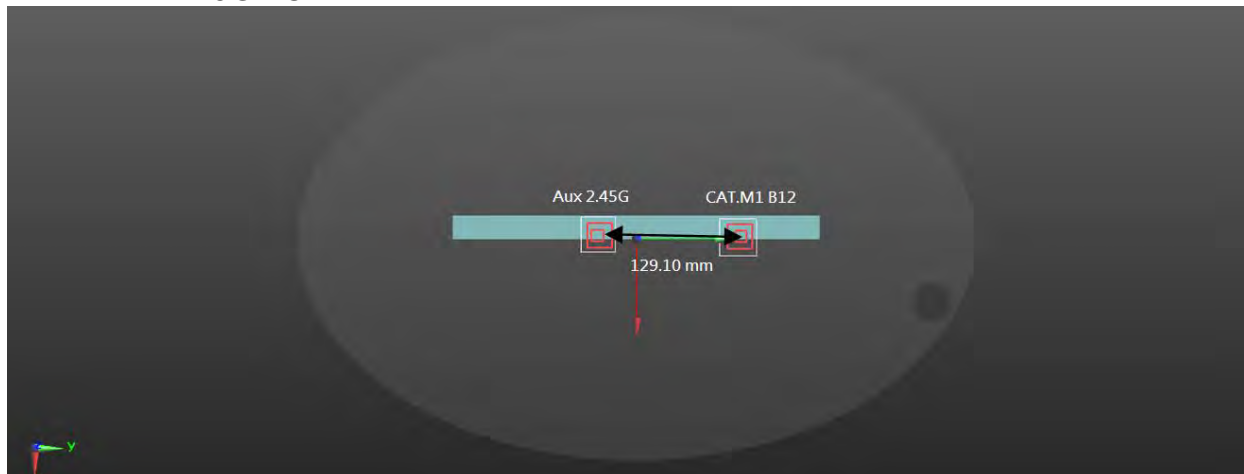
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WLAN Aux 2.45G +CAT.M1 B5



WLAN Aux 2.45G +CAT.M1 B12



WLAN Aux 2.45G +CAT.M1 B13

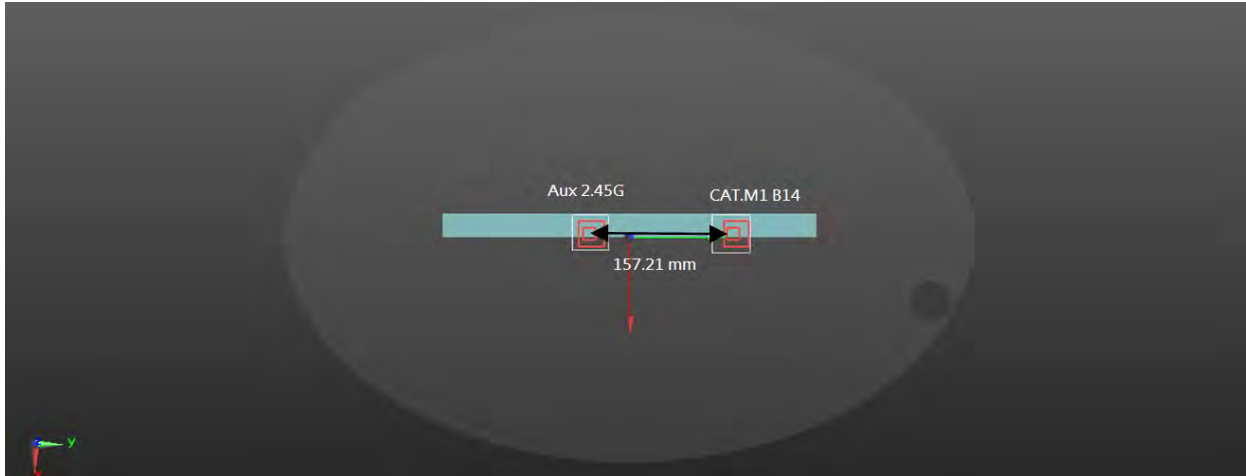


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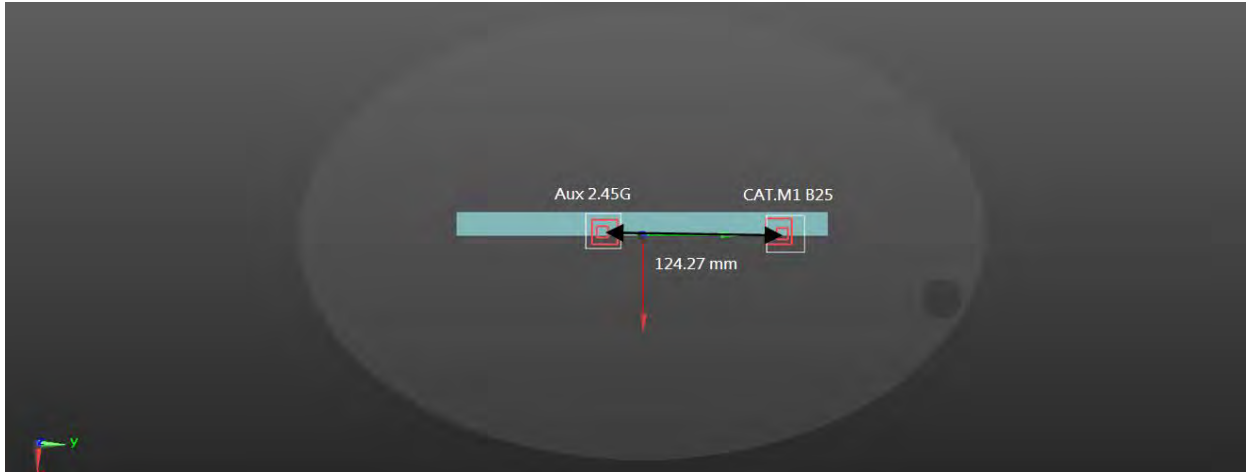
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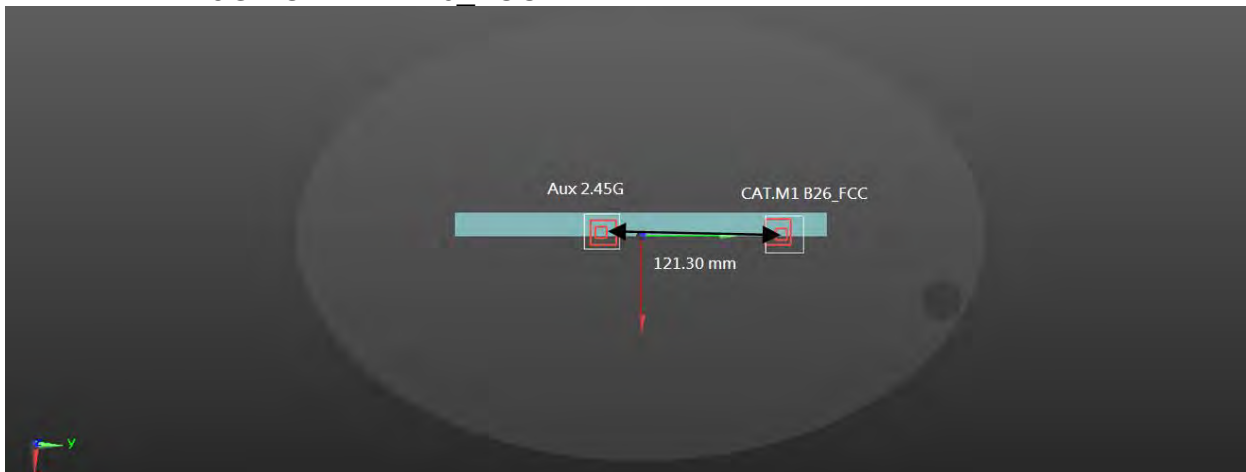
WLAN Aux 2.45G +CAT.M1 B14



WLAN Aux 2.45G +CAT.M1 B25



WLAN Aux 2.45G +CAT.M1 B26_FCC

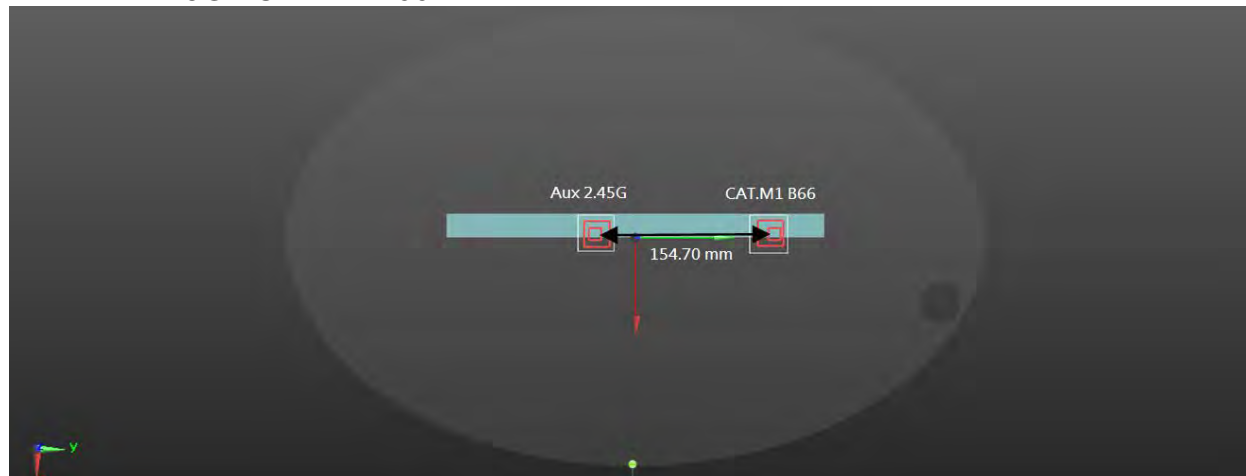


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LAN Aux 2.45G +CAT.M1 B66



WLAN Aux 2.45G +CAT.M1 B85



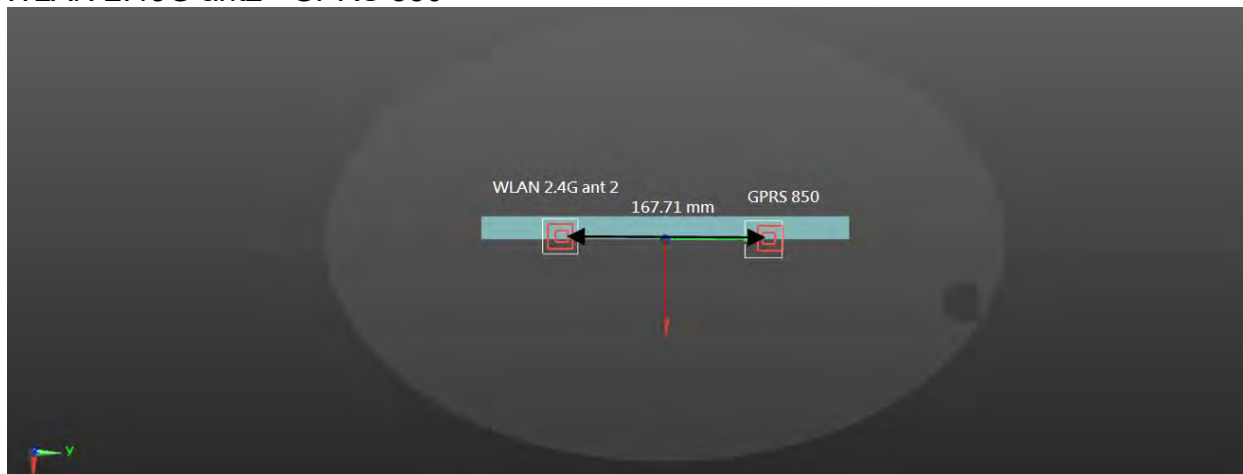
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Scenario 1:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 2.4G Ant 2	0.970	-0.28	-8.80	-0.16	-	-	-	-
	GPRS 850	1.154	-0.16	7.97	-0.11	2.124	167.71	0.018	SPLSR \leq 0.04, Not required
	GPRS 1900	1.131	-0.31	9.04	-0.10	2.101	178.40	0.017	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.243	-0.15	12.04	-0.17	1.213	208.40	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.405	-0.29	11.63	-0.17	1.375	204.30	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.193	-0.46	6.85	-0.19	1.163	156.51	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.277	-0.31	9.23	-0.18	1.247	180.30	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.265	-0.30	8.60	-0.19	1.235	174.00	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.233	-0.15	12.04	-0.17	1.203	208.40	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.215	-3.00	8.45	-0.18	1.185	174.63	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.197	-0.30	8.45	-0.18	1.167	172.50	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.421	-0.30	11.79	-0.17	1.391	205.90	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.269	-0.31	9.05	-0.19	1.239	178.50	0.008	SPLSR \leq 0.04, Not required

WLAN 2.45G ant2 +GPRS 850



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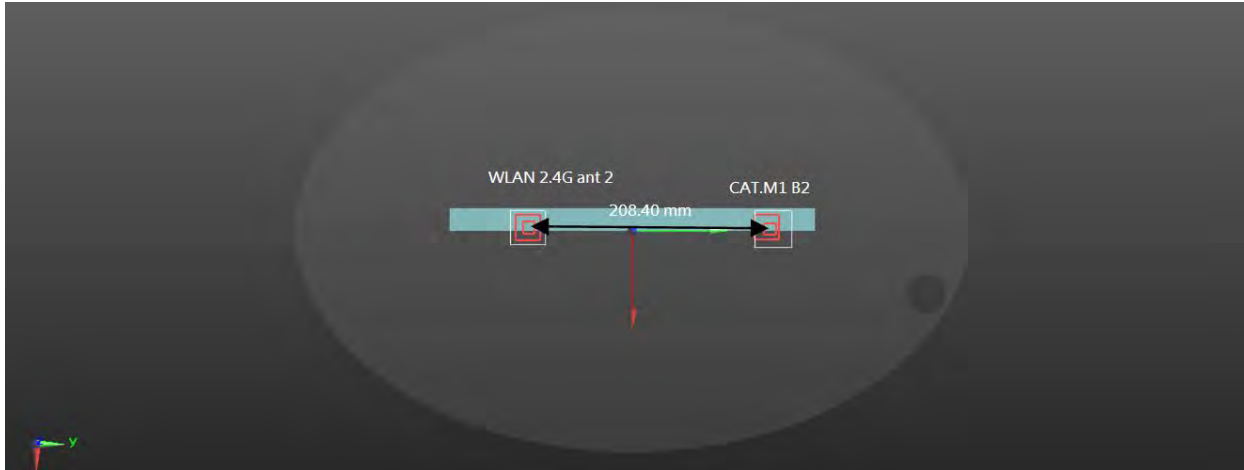
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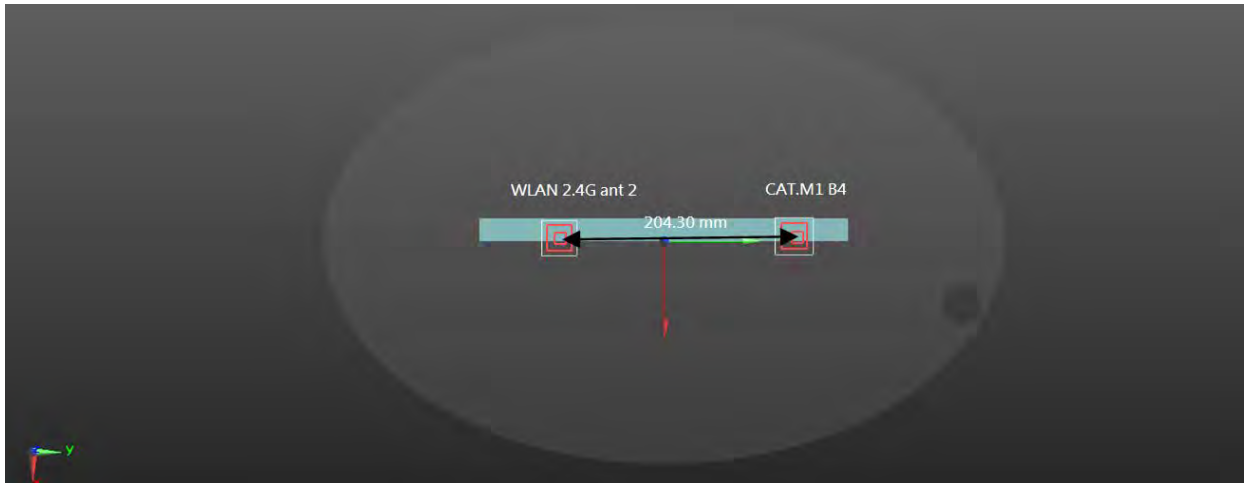
WLAN 2.45G ant2 +GPRS 1900



WLAN 2.45G ant2 +CAT.M1 B2



WLAN 2.45G ant2 +CAT.M1 B4

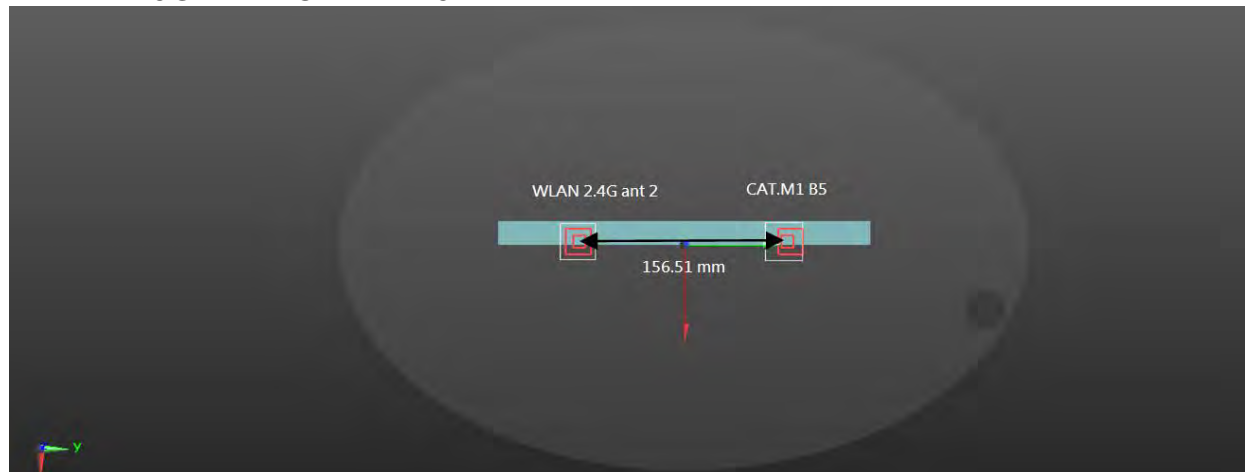


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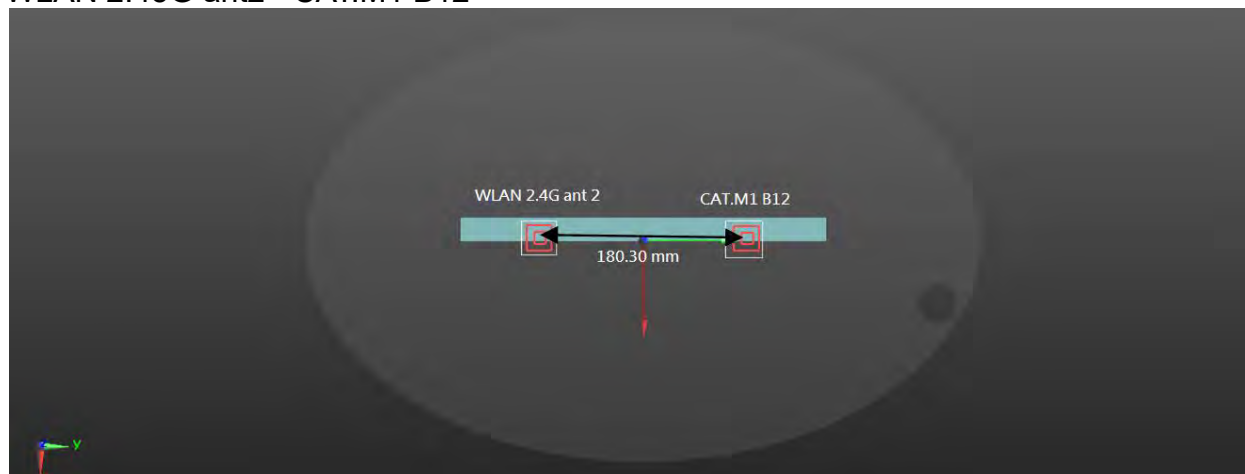
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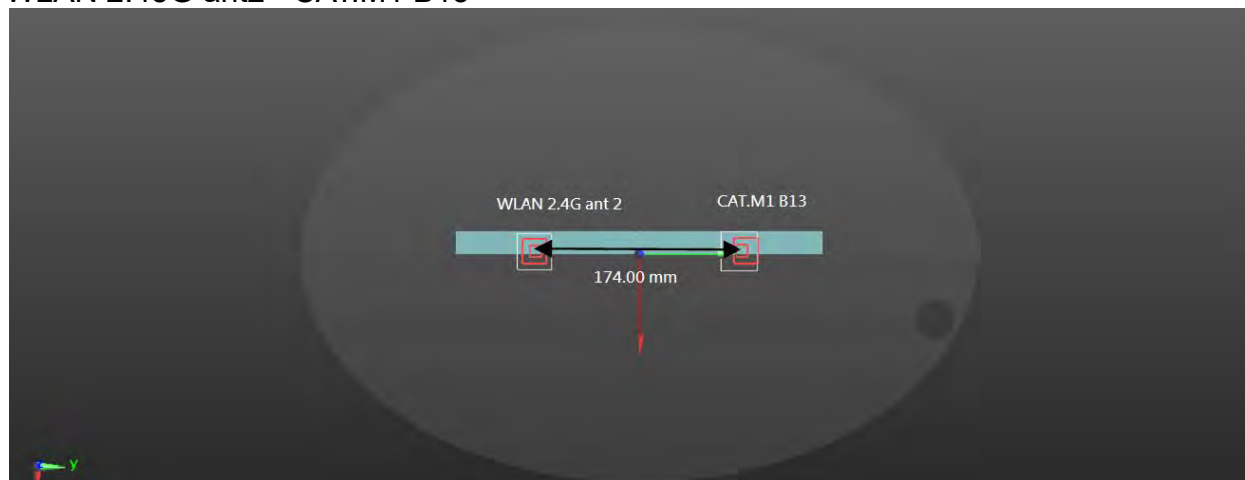
WLAN 2.45G ant2 +CAT.M1 B5



WLAN 2.45G ant2 +CAT.M1 B12



WLAN 2.45G ant2 +CAT.M1 B13

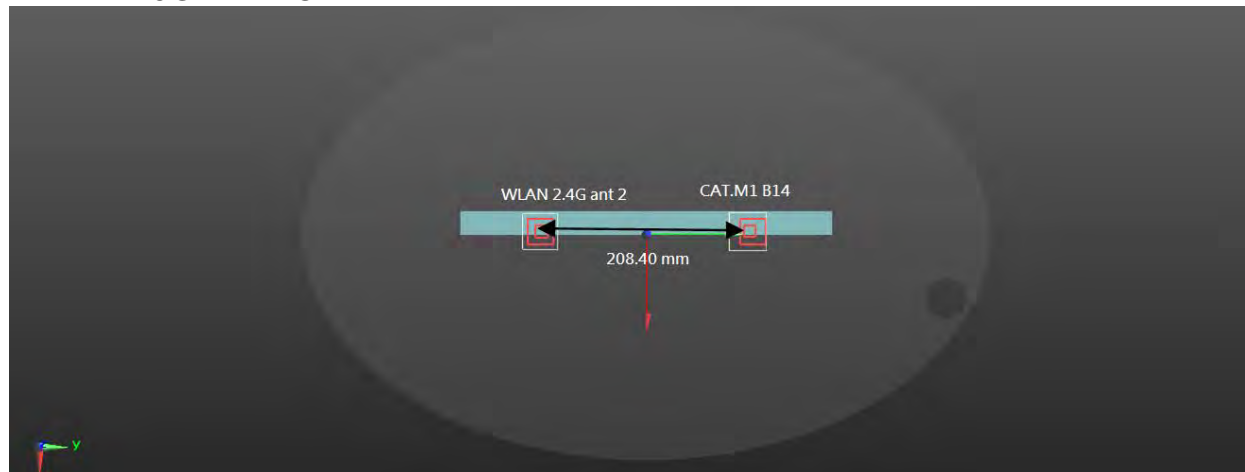


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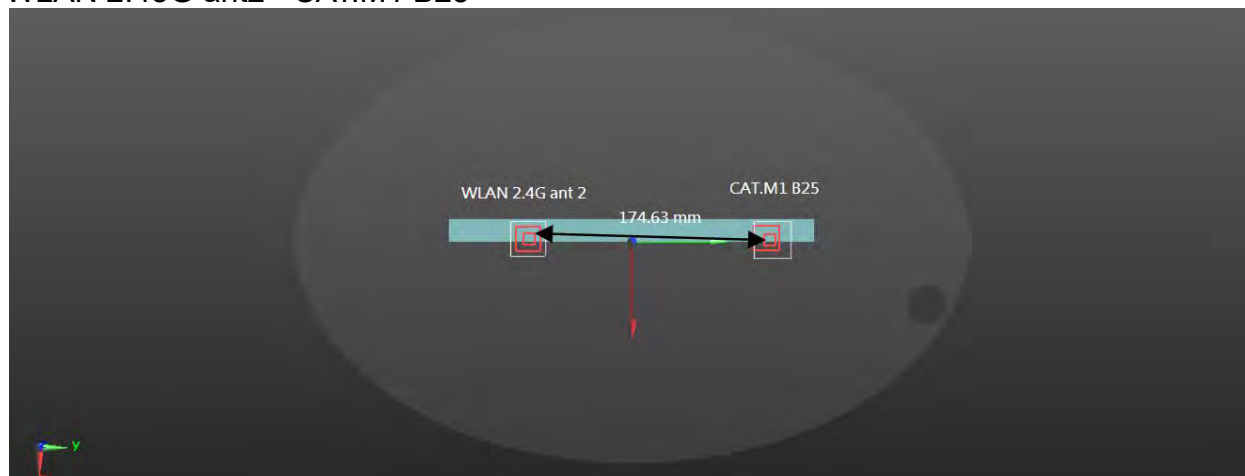
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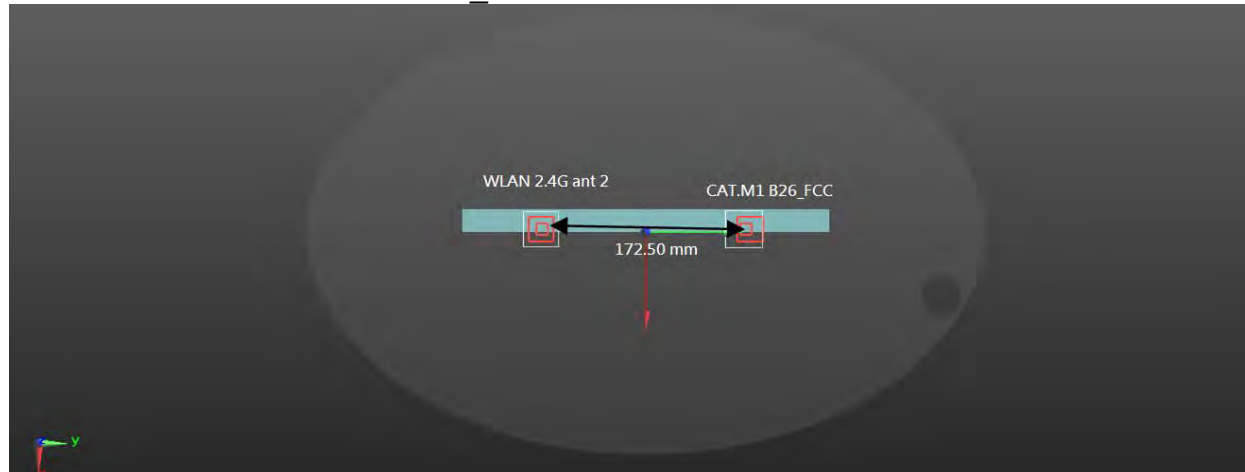
WLAN 2.45G ant2 +CAT.M1 B14



WLAN 2.45G ant2 +CAT.M1 B25



WLAN 2.45G ant2 +CAT.M1 B26_FCC

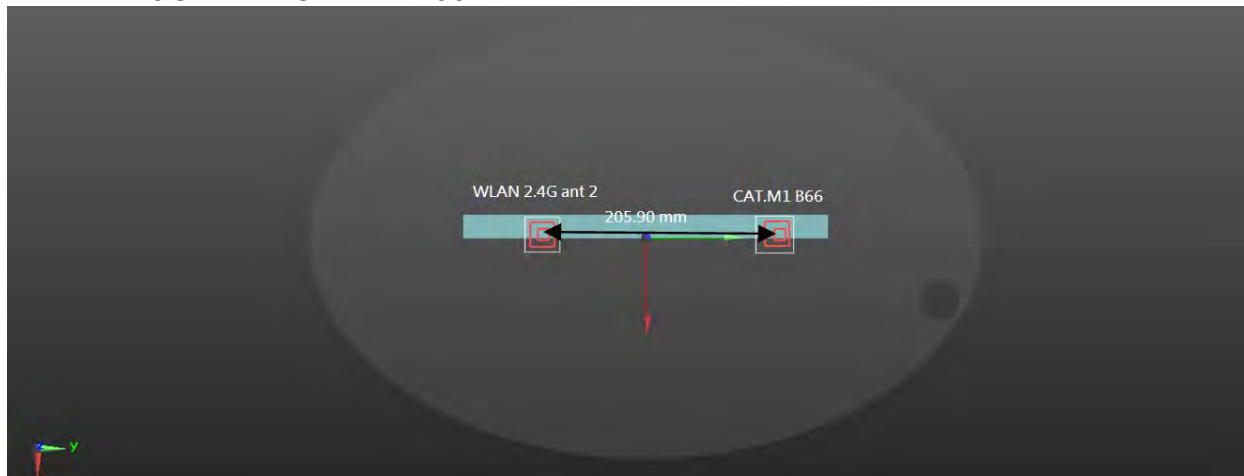


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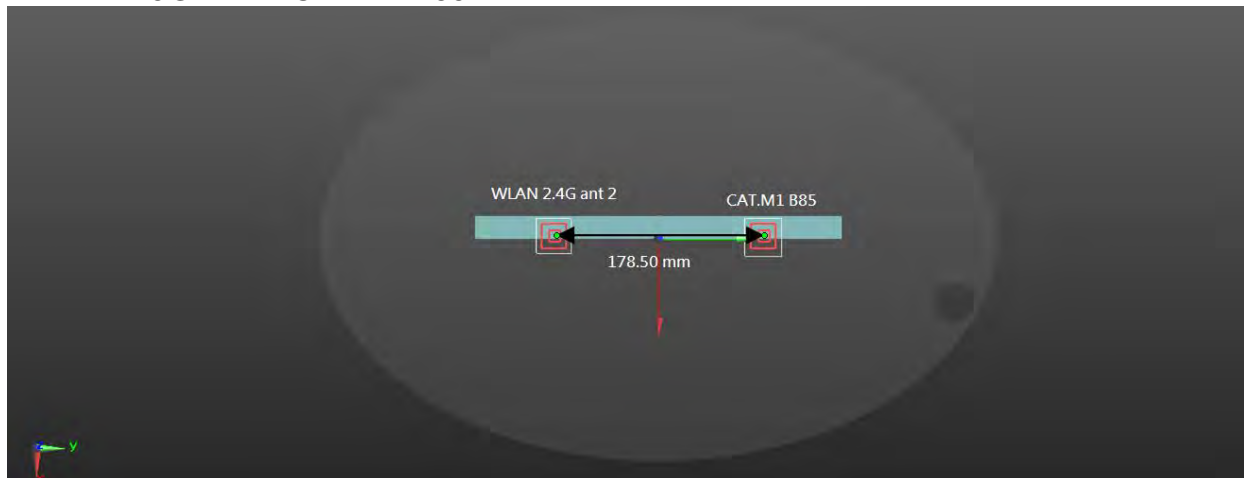
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WLAN 2.45G ant2 +CAT.M1 B66



WLAN 2.45G ant2 +CAT.M1 B85



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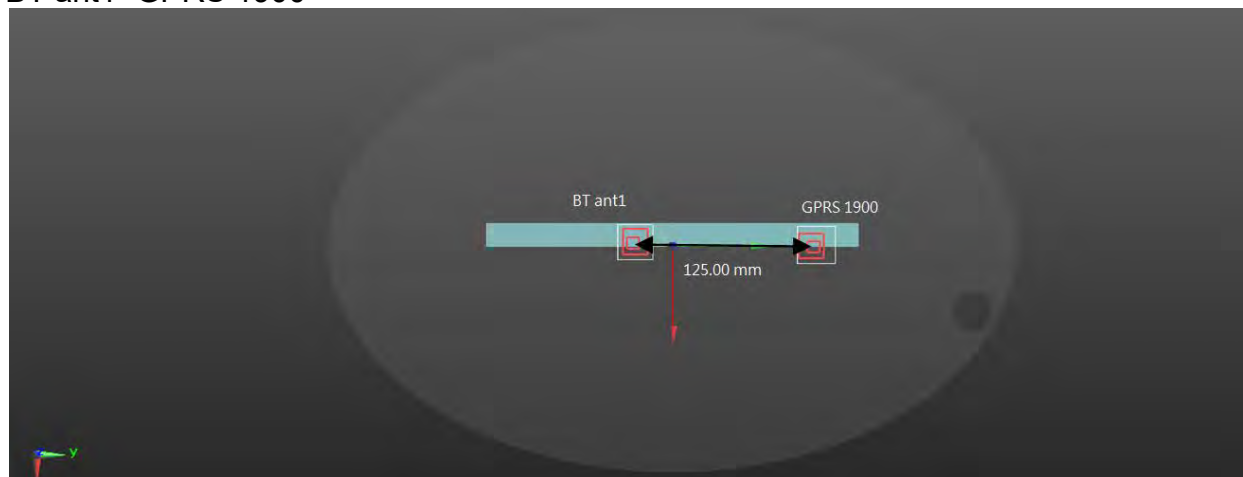
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Scenario 2									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	BT Ant 1	0.180	-0.30	-3.46	-0.16	-	-	-	-
	GPRS 850	1.154	-0.16	7.97	-0.11	1.334	114.31	0.013	SPLSR \leq 0.04, Not required
	GPRS 1900	1.131	-0.31	9.04	-0.10	1.311	125.00	0.012	SPLSR \leq 0.04, Not required

BT ant1+GPRS 850



BT ant1+GPRS 1900



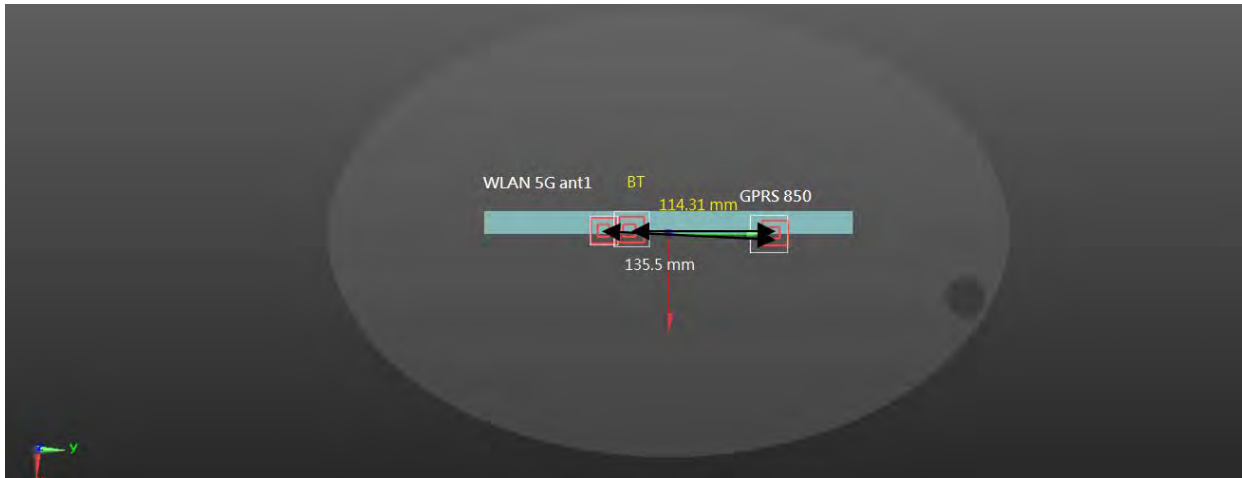
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Scenario 3:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 5G Ant 1+BT	0.910	-0.30	-3.46	-0.16	-	-	-	-
	GPRS 850	1.154	-0.16	7.97	-0.11	2.064	114.31	0.026	SPLSR \leq 0.04, Not required
	GPRS 1900	1.131	-0.31	9.04	-0.10	2.041	125.00	0.023	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.243	-0.15	12.04	-0.17	1.153	155.01	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.405	-0.29	11.63	-0.17	1.315	150.90	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.193	-0.46	6.85	-0.19	1.103	103.11	0.011	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.277	-0.31	9.23	-0.18	1.187	126.90	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.265	-0.30	8.60	-0.19	1.175	120.60	0.011	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.233	-0.15	12.04	-0.17	1.143	155.01	0.008	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.215	-3.00	8.45	-0.18	1.125	122.12	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.197	-0.30	8.45	-0.18	1.107	119.10	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.421	-0.30	11.79	-0.17	1.331	152.50	0.010	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.269	-0.31	9.05	-0.19	1.179	125.10	0.010	SPLSR \leq 0.04, Not required

WLAN 5G ant1+BT +GPRS 850

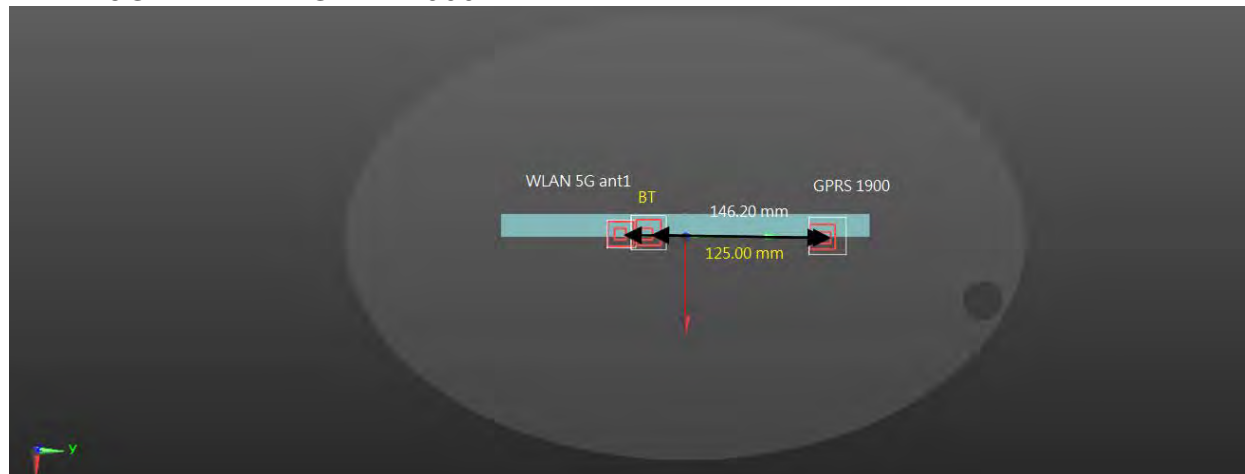


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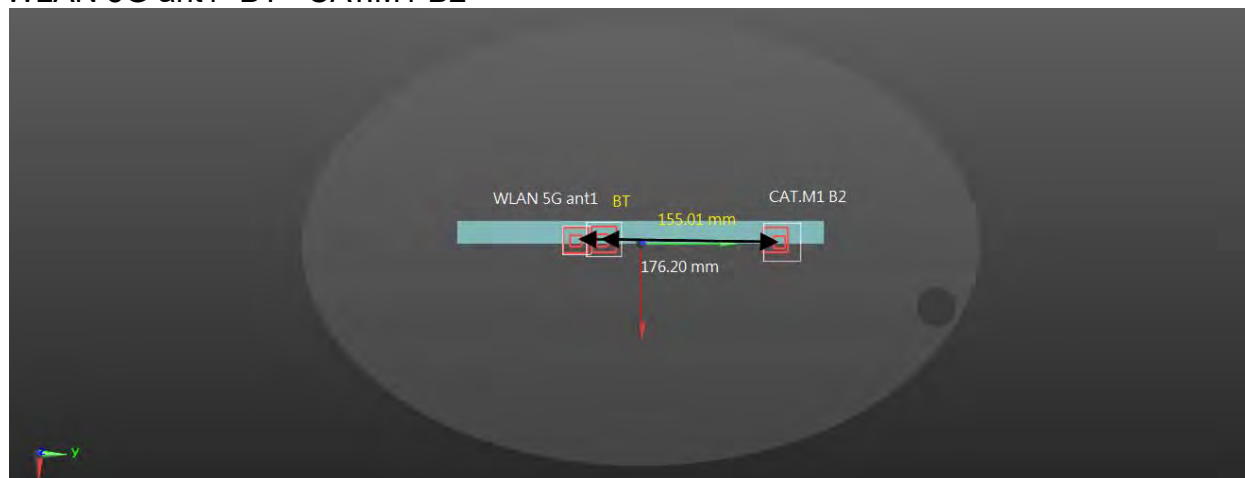
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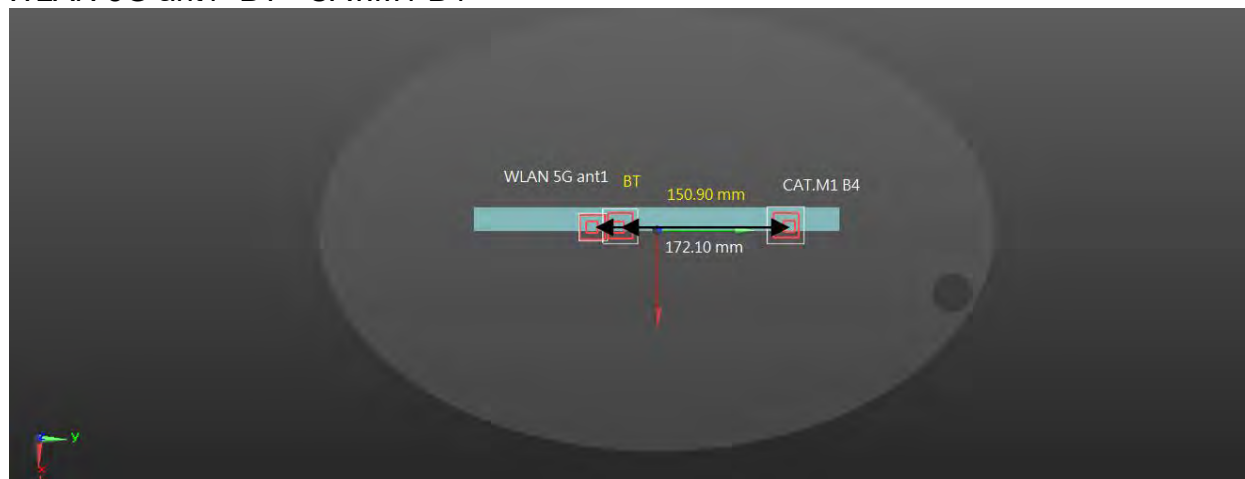
WLAN 5G ant1+BT +GPRS 1900



WLAN 5G ant1+BT +CAT.M1 B2



WLAN 5G ant1+BT +CAT.M1 B4

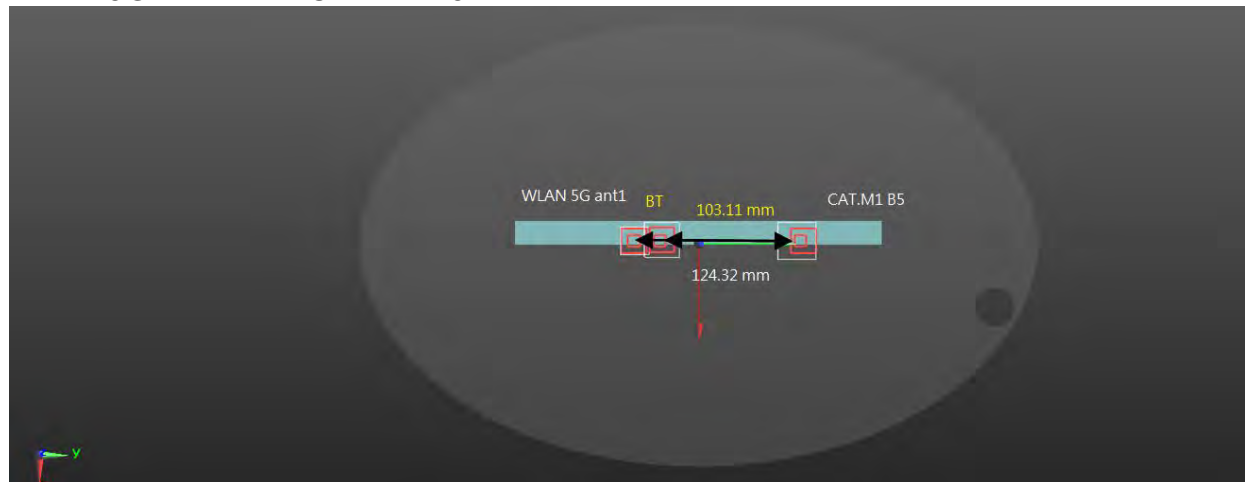


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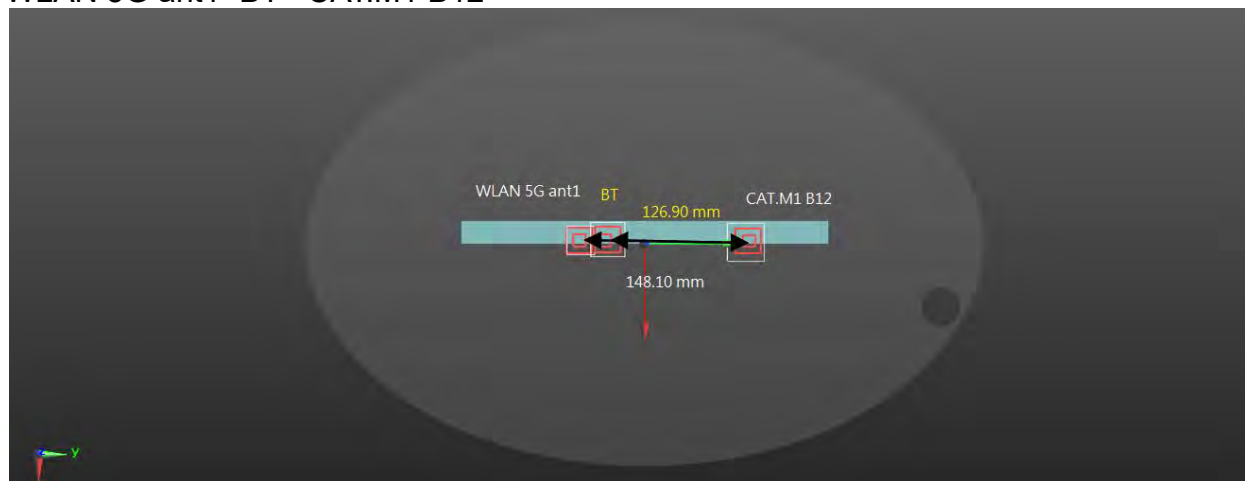
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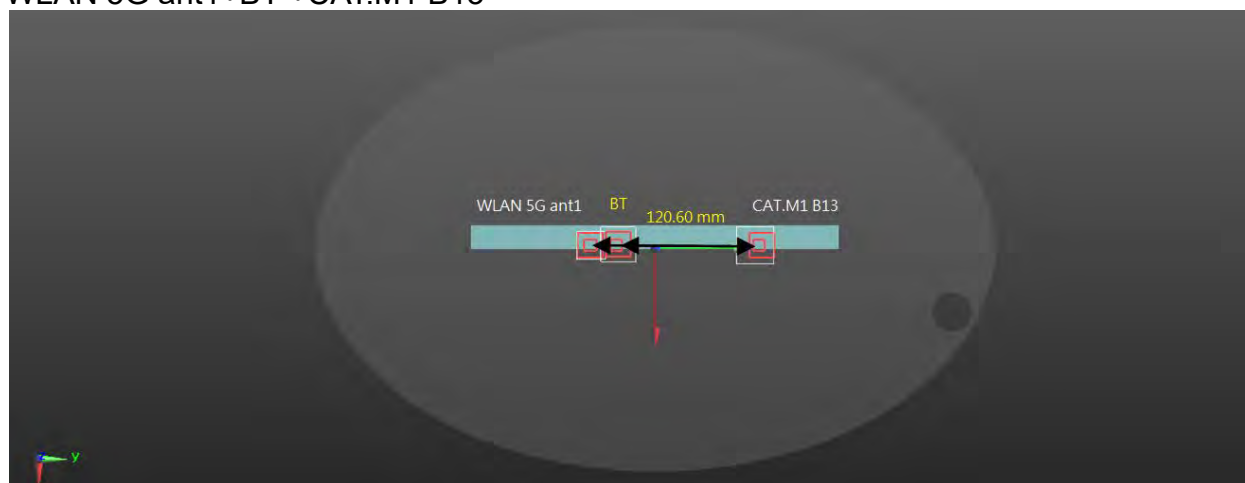
WLAN 5G ant1+BT +CAT.M1 B5



WLAN 5G ant1+BT +CAT.M1 B12



WLAN 5G ant1+BT +CAT.M1 B13

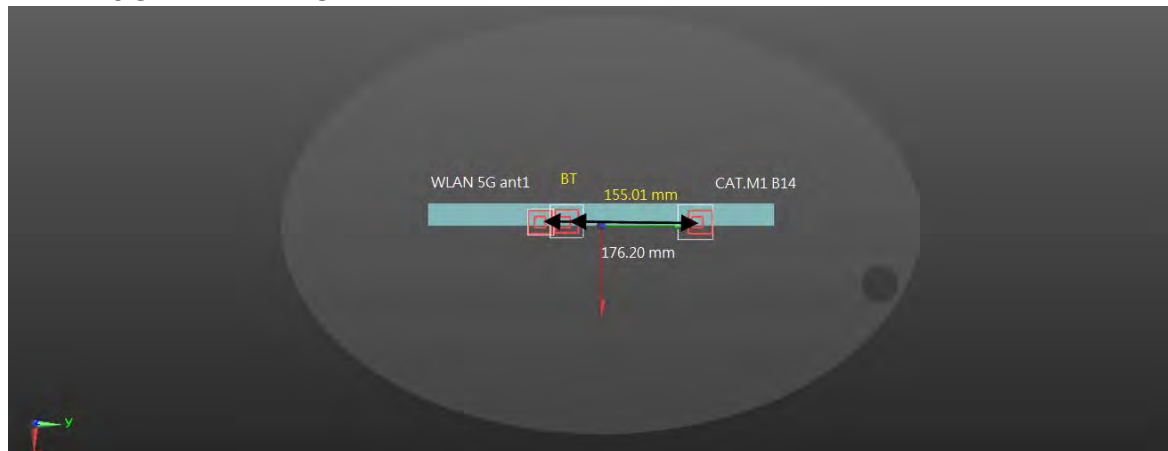


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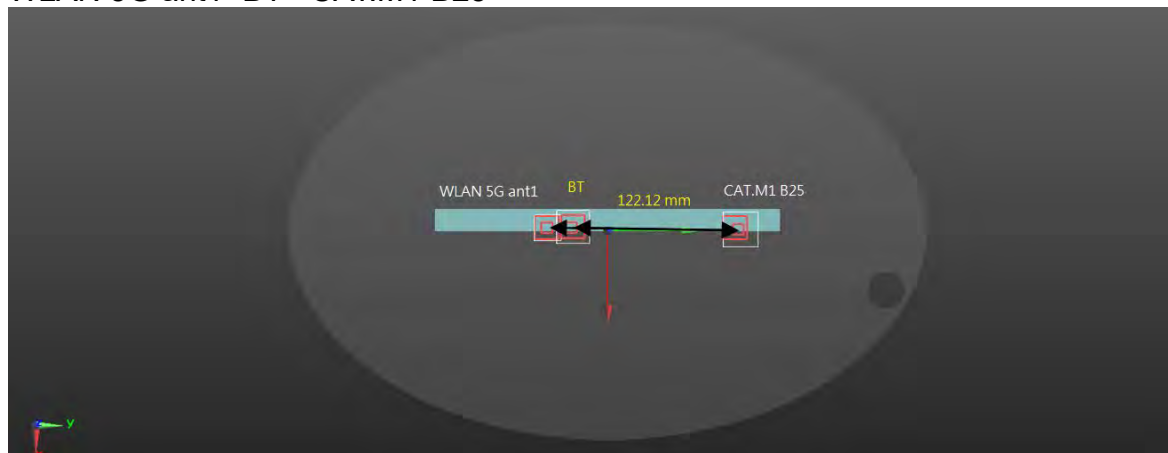
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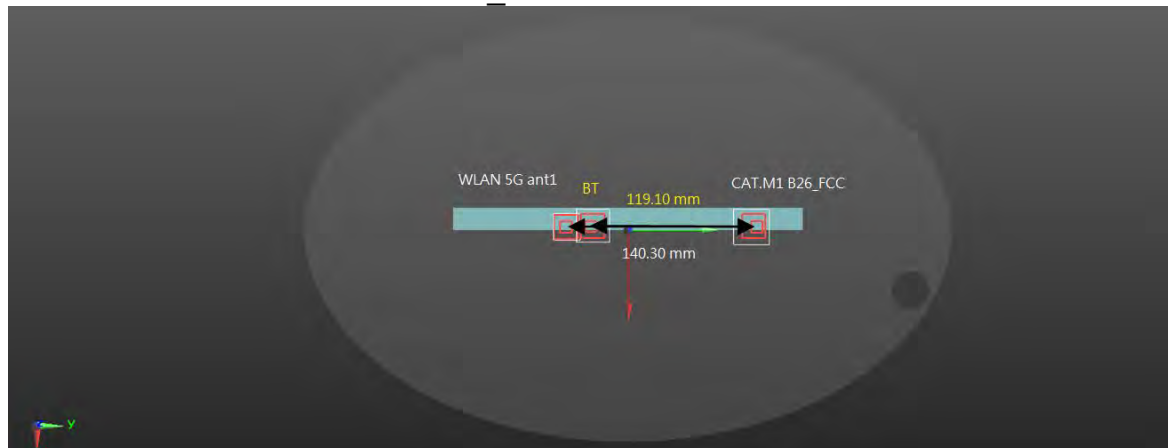
WLAN 5G ant1+BT +CAT.M1 B14



WLAN 5G ant1+BT +CAT.M1 B25



WLAN 5G ant1+BT +CAT.M1 B26 FCC

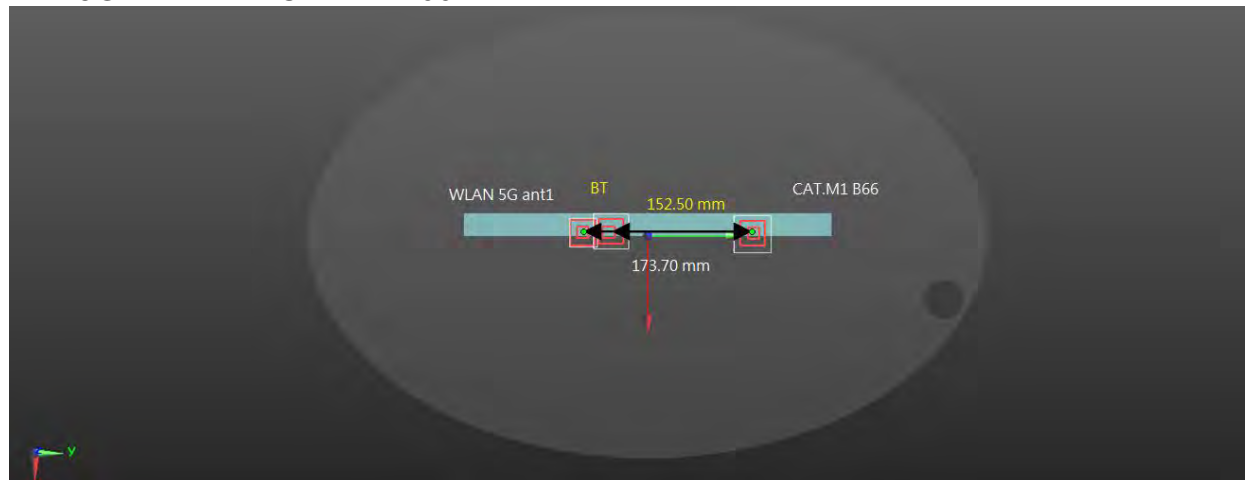


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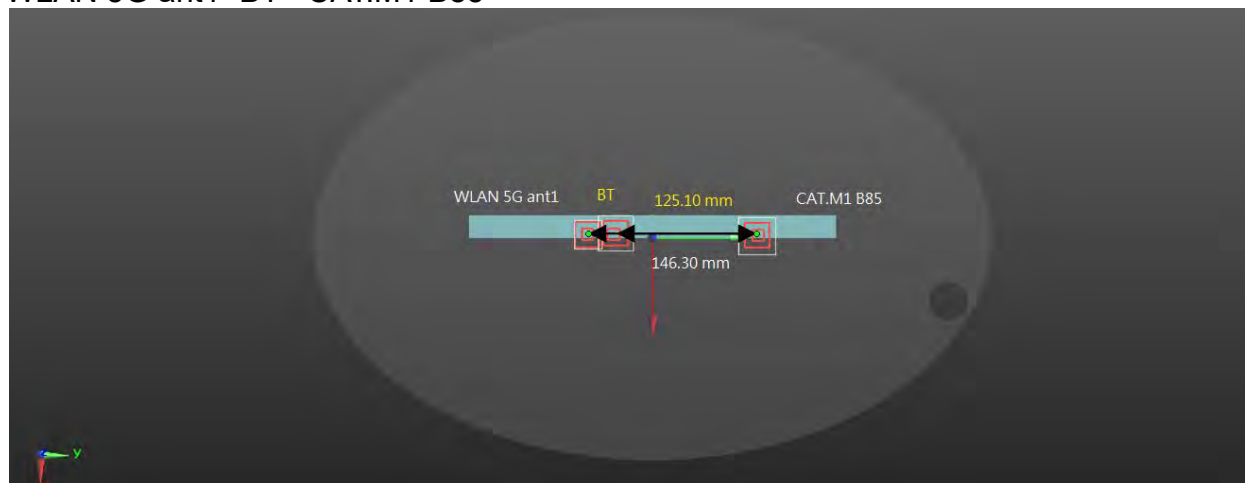
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LAN 5G ant1+BT +CAT.M1 B66



WLAN 5G ant1+BT +CAT.M1 B85



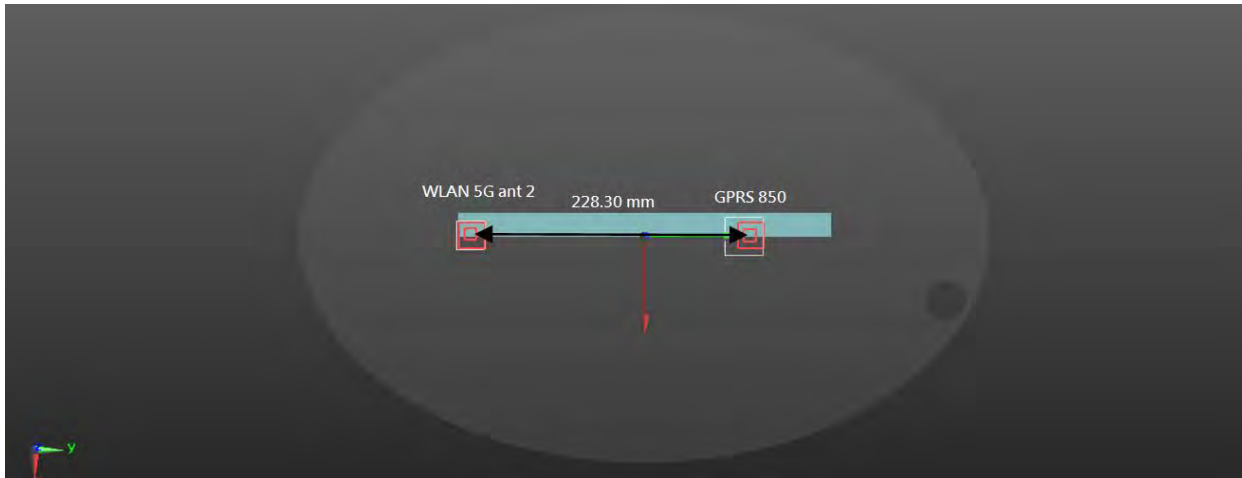
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Scenario 3:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 5G Ant 2	1.020	-0.18	-14.86	-0.17	-	-	-	-
	GSM850	1.154	-0.16	7.97	-0.11	2.174	228.30	0.014	SPLSR \leq 0.04, Not required
	GSM1900	1.131	-0.31	9.04	-0.10	2.151	239.00	0.013	SPLSR \leq 0.04, Not required
	CAT.M1 Band 2	0.243	-0.15	12.04	-0.17	1.263	269.00	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.405	-0.29	11.63	-0.17	1.425	264.90	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 5	0.193	-0.46	6.85	-0.19	1.213	217.12	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 12	0.277	-0.31	9.23	-0.18	1.297	240.90	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 13	0.265	-0.30	8.60	-0.19	1.285	234.60	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 14	0.233	-0.15	12.04	-0.17	1.253	269.00	0.005	SPLSR \leq 0.04, Not required
	CAT.M1 Band 25	0.215	-3.00	8.45	-0.18	1.235	234.80	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 26_FCC	0.197	-0.30	8.45	-0.18	1.217	233.10	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.421	-0.30	11.79	-0.17	1.441	266.50	0.006	SPLSR \leq 0.04, Not required
	CAT.M1 Band 85	0.269	-0.31	9.05	-0.19	1.289	239.10	0.006	SPLSR \leq 0.04, Not required

WLAN 5G ant2 +GPRS 850

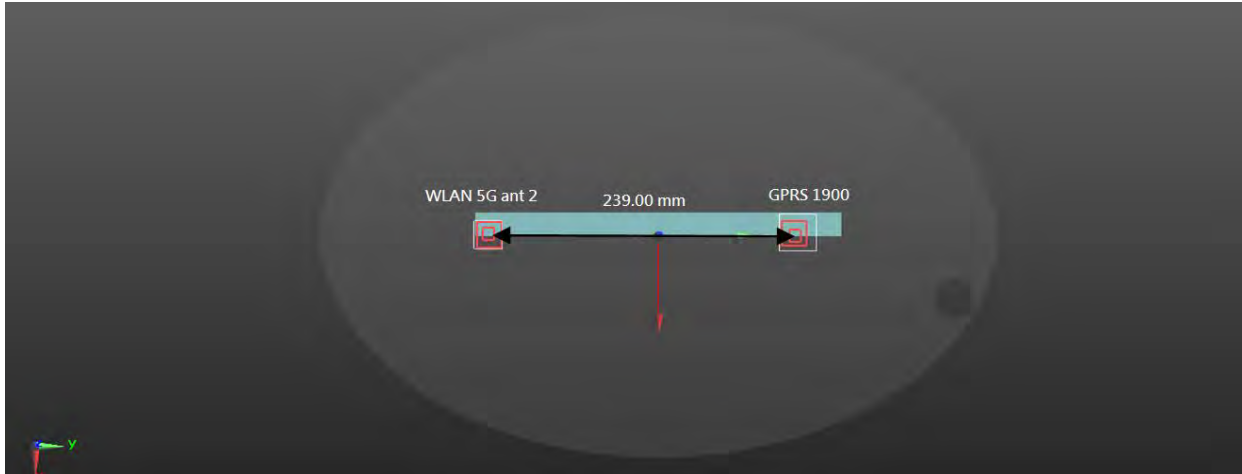


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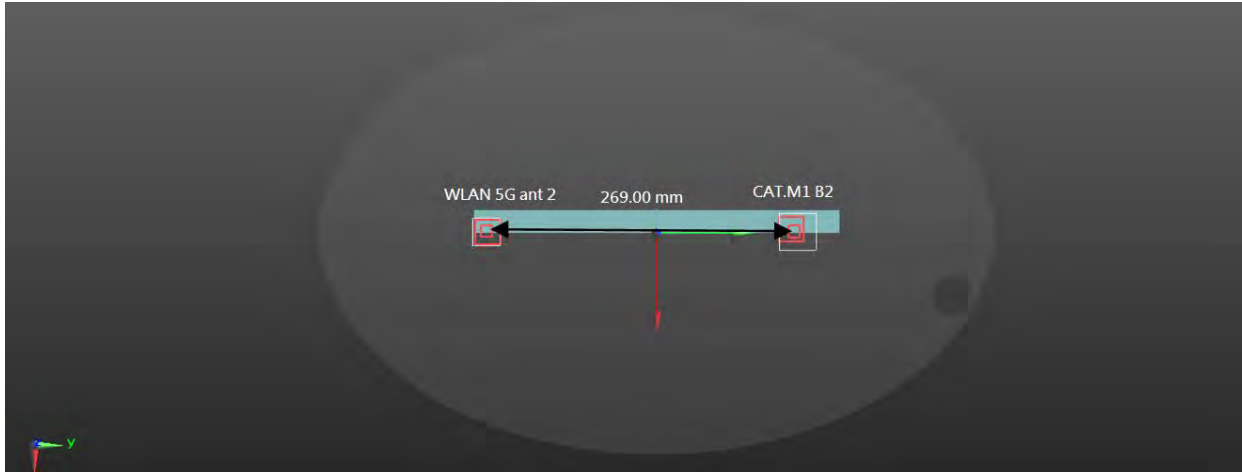
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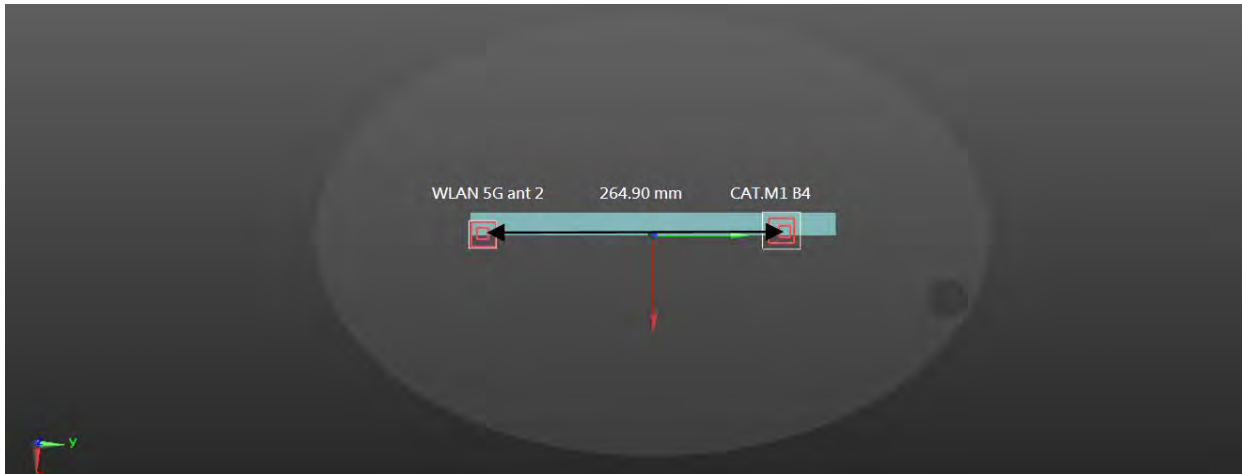
WLAN 5G ant2 +GPRS 1900



WLAN 5G ant2 +CAT.M1 B2



WLAN 5G ant2 +CAT.M1 B4

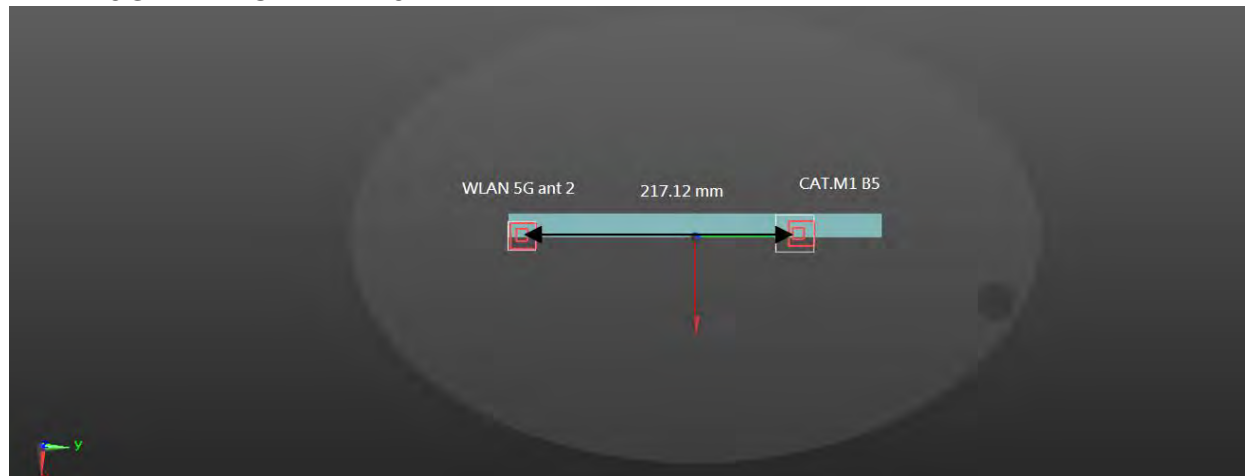


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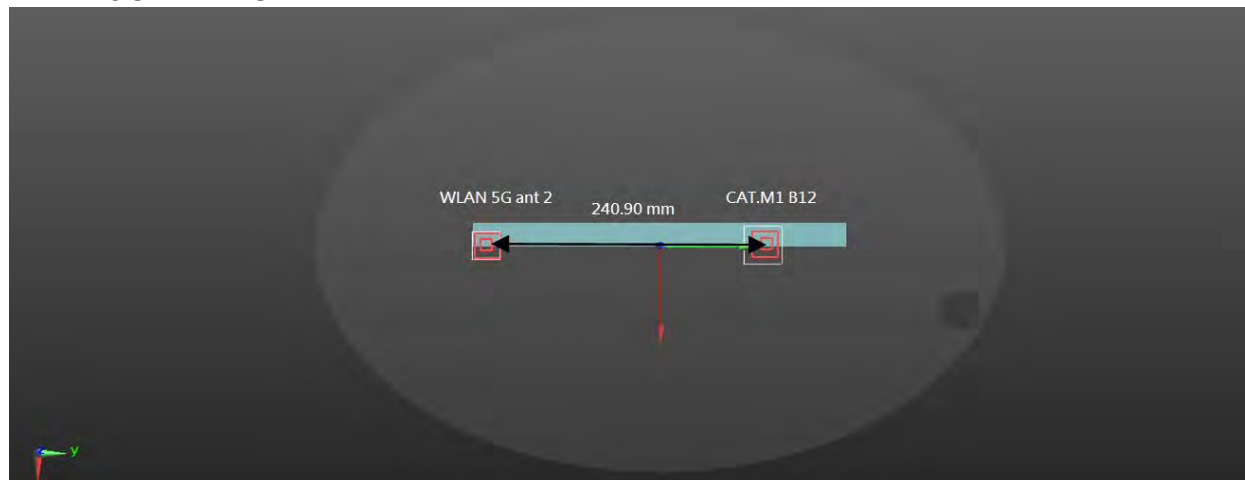
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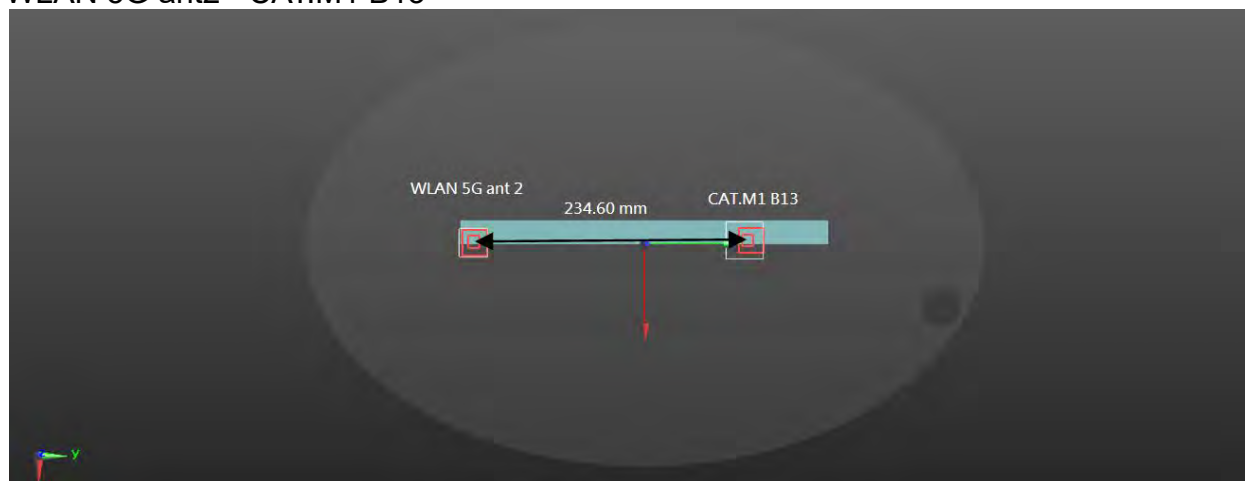
WLAN 5G ant2 +CAT.M1 B5



WLAN 5G ant2 +CAT.M1 B12



WLAN 5G ant2 +CAT.M1 B13

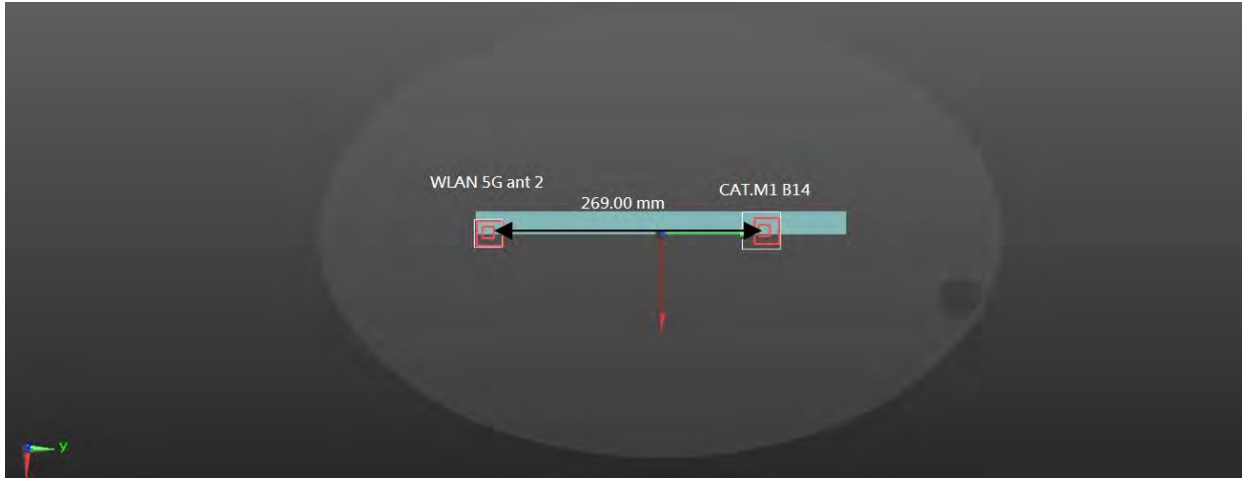


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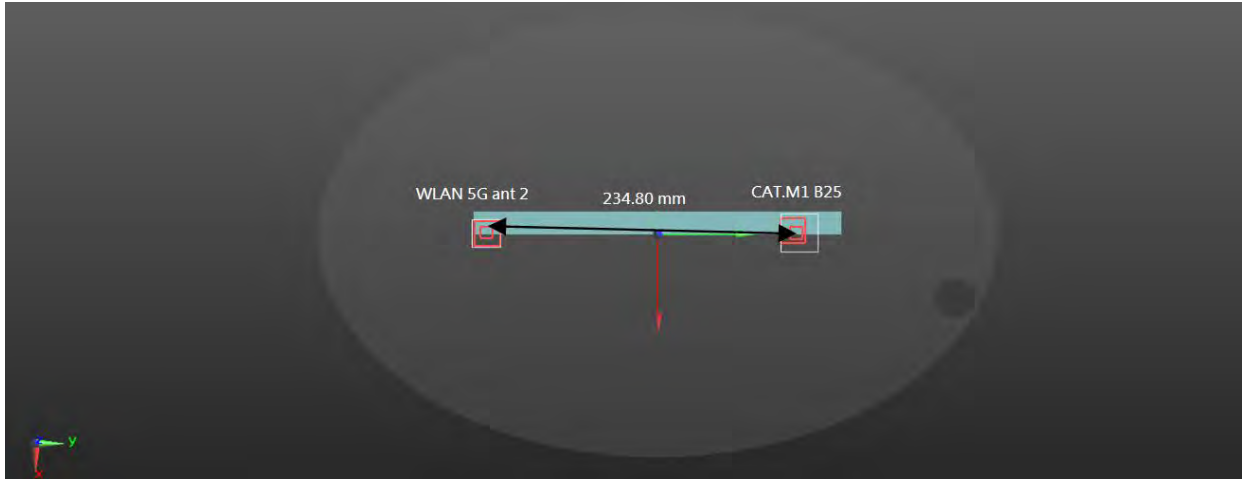
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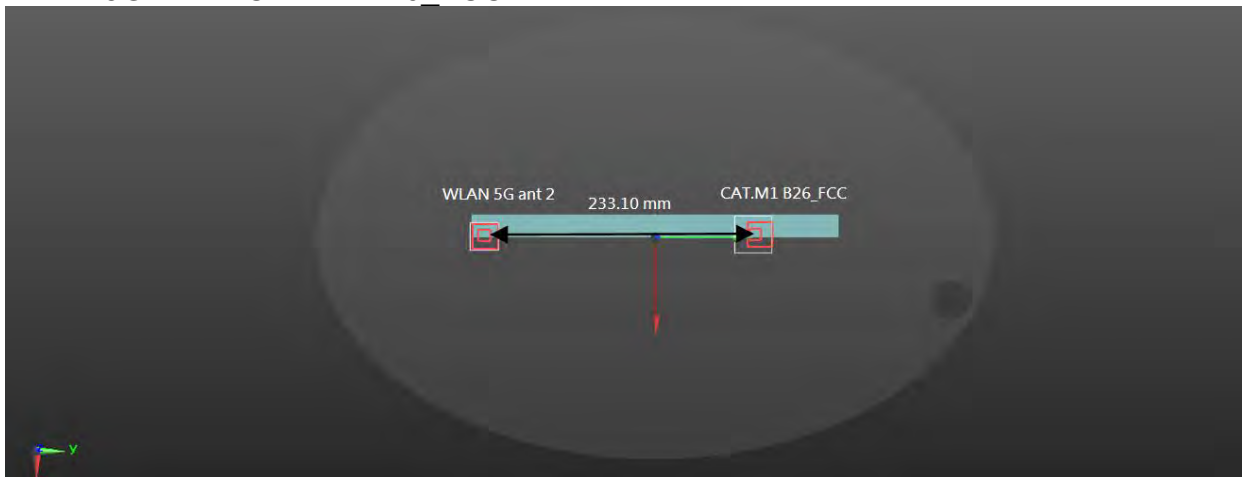
WLAN 5G ant2 +CAT.M1 B14



WLAN 5G ant2 +CAT.M1 B25



WLAN 5G ant2 +CAT.M1 B26_FCC

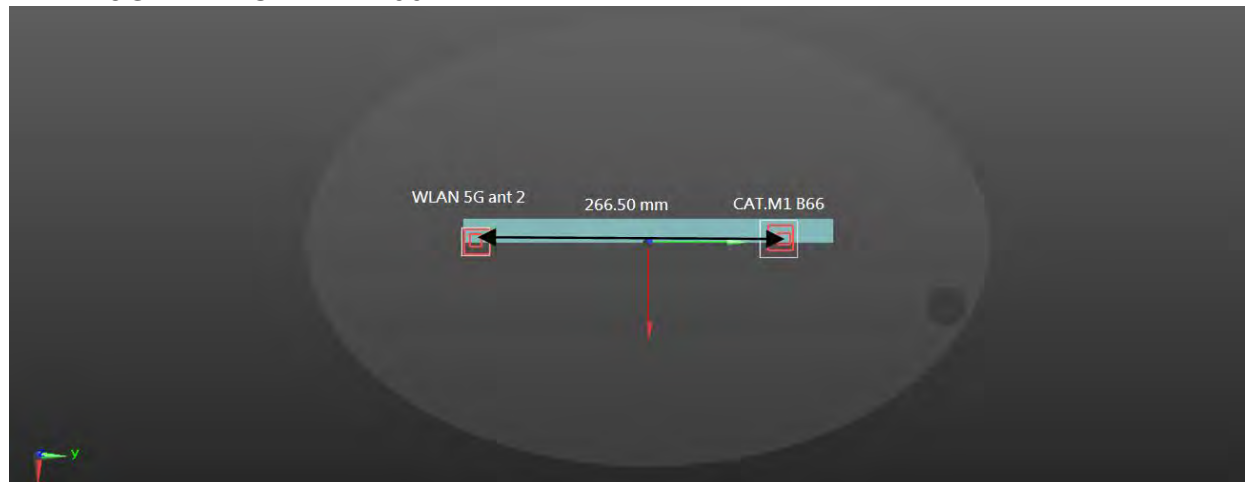


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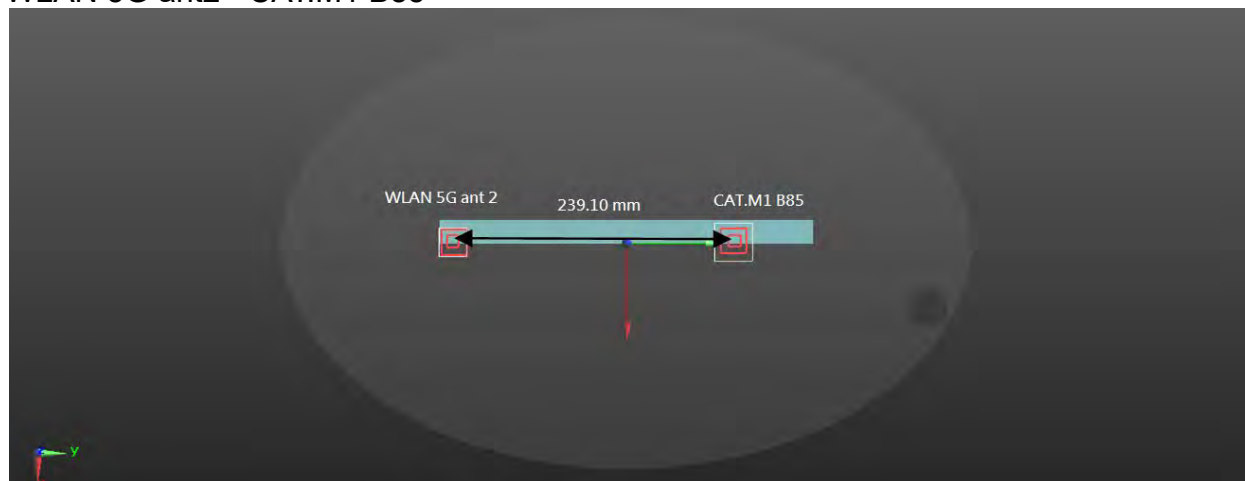
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WLAN 5G ant2 +CAT.M1 B66



WLAN 5G ant2 +CAT.M1 B85



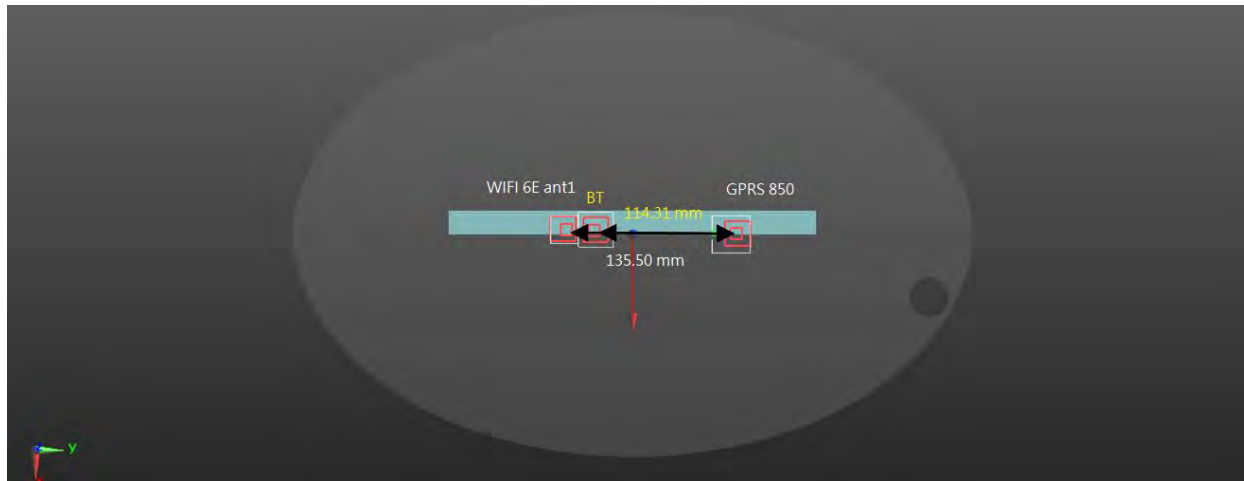
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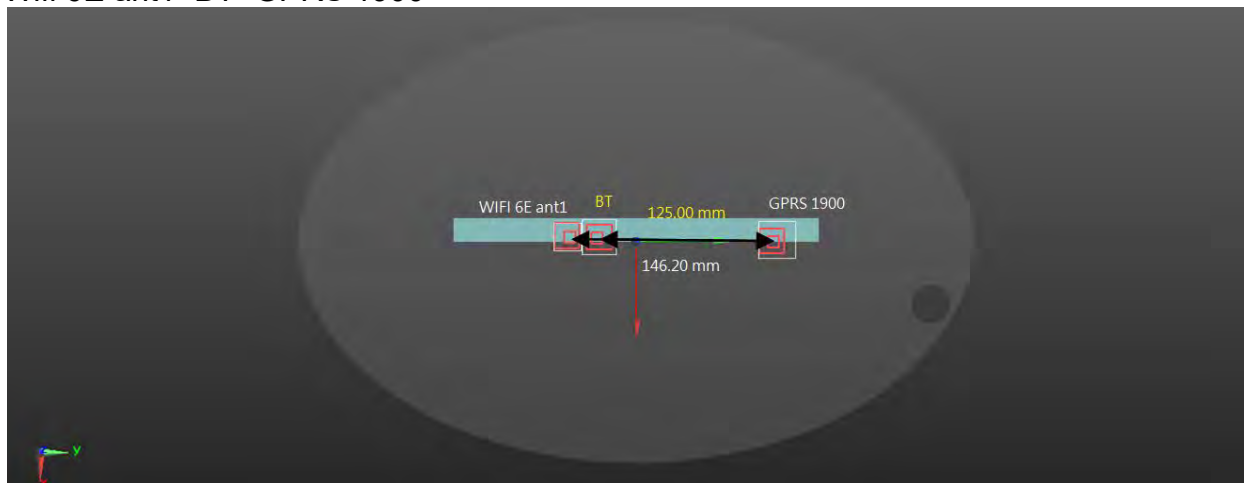
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Scenario 4:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 6E Ant 1+BT	0.190	-0.30	-3.46	-0.16	-	-	-	-
	GPRS 850	1.154	-0.16	7.97	-0.11	1.344	114.31	0.014	SPLSR \leq 0.04, Not required
	GPRS 1900	1.131	-0.31	9.04	-0.10	1.321	125.00	0.012	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.405	-0.29	11.63	-0.17	0.595	150.90	0.003	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.421	-0.30	11.79	-0.17	0.611	152.50	0.003	SPLSR \leq 0.04, Not required

Wifi 6E ant1+BT+GPRS 850



Wifi 6E ant1+BT+GPRS 1900

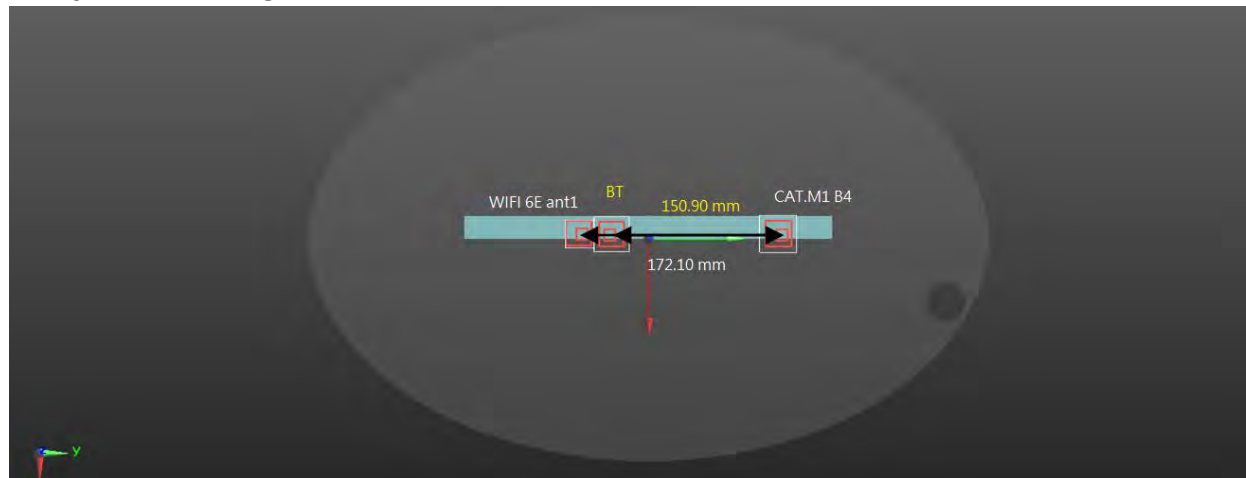


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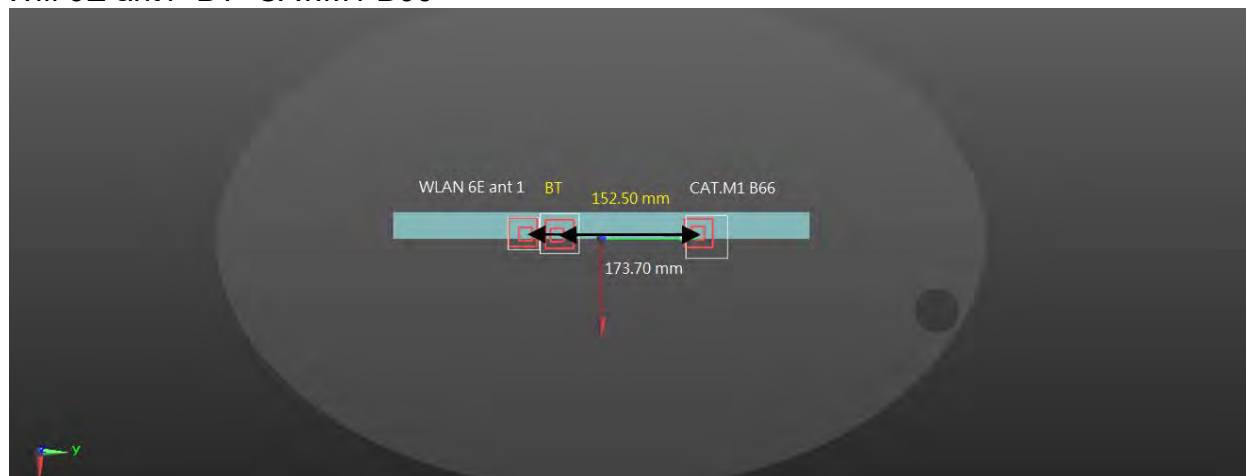
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Wifi 6E ant1+BT+CAT.M1 B4



Wifi 6E ant1+BT+CAT.M1 B66



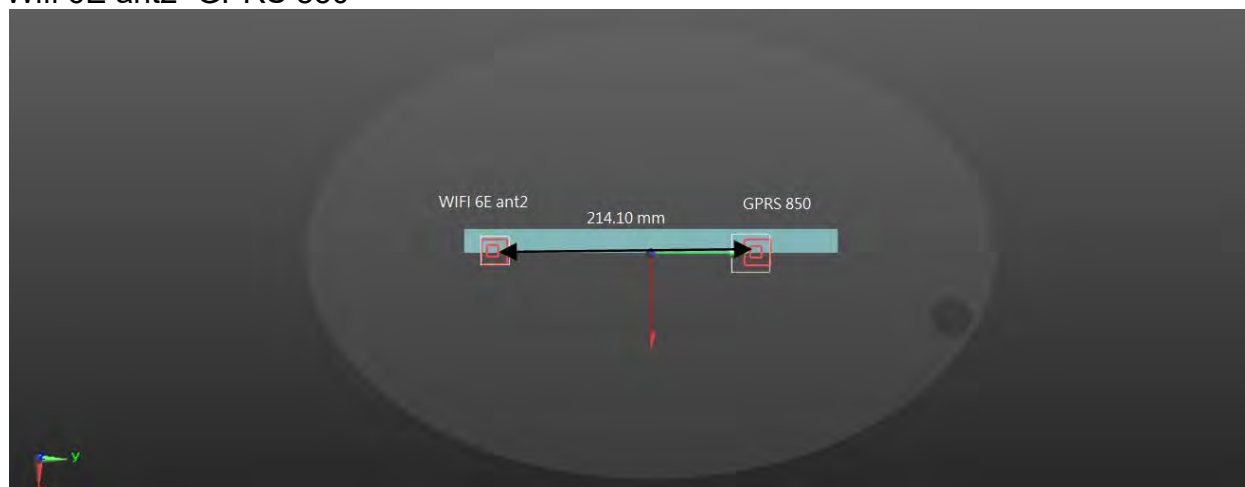
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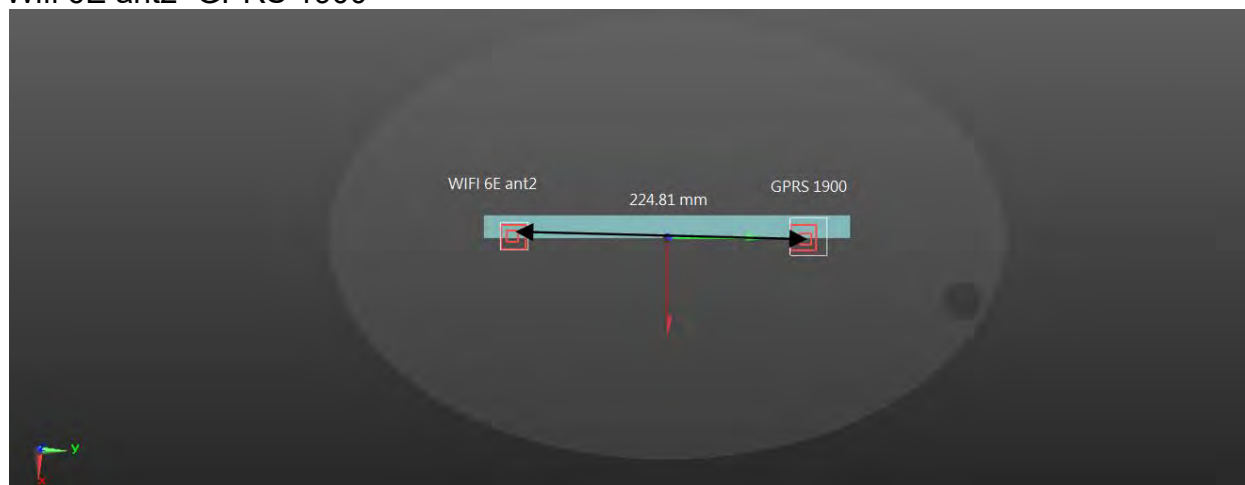
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Scenario 4:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top edge	WLAN 6E Ant 2	0.190	-0.12	-13.44	-0.17	-	-	-	-
	GPRS 850	1.154	-0.16	7.97	-0.11	1.344	214.10	0.007	SPLSR \leq 0.04, Not required
	GPRS 1900	1.131	-0.31	9.04	-0.10	1.321	224.81	0.007	SPLSR \leq 0.04, Not required
	CAT.M1 Band 4	0.405	-0.29	11.63	-0.17	0.595	250.71	0.002	SPLSR \leq 0.04, Not required
	CAT.M1 Band 66	0.421	-0.30	11.79	-0.17	0.611	252.31	0.002	SPLSR \leq 0.04, Not required

Wifi 6E ant2+GPRS 850



Wifi 6E ant2+GPRS 1900

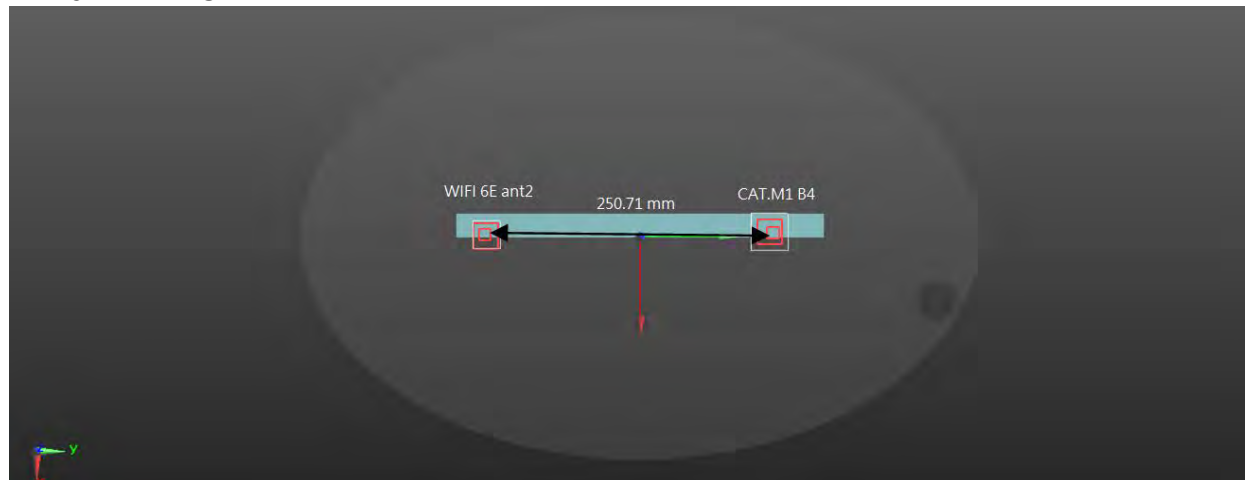


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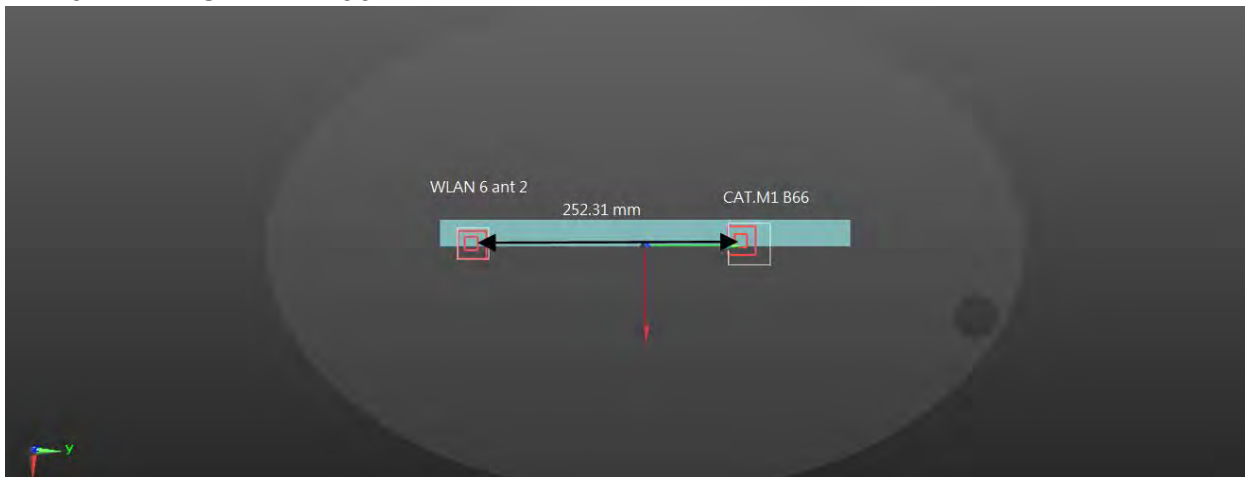
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Wifi 6E ant2+CAT.M1 B4



Wifi 6E ant2+CAT.M1 B66



7.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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8 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	558	Nov/07/2022	Nov/06/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	3770	May/02/2022	May/01/2023
SPEAG	System Validation Dipole	D750V3	1015	Oct/09/2023	Oct/08/2023
SPEAG	System Validation Dipole	D835V2	4d063	Sep/26/2022	Sep/25/2023
SPEAG	System Validation Dipole	D1750V2	1008	Sep/27/2022	Sep/26/2023
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/28/2022	Apr/27/2023
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1146	Feb/21/2022	Feb/20/2023
R&S	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
Agilent	Dual-directional coupler	772D	MY46151258	Oct/03/2022	Oct/02/2023
Agilent	Dual-directional coupler	778D	MY46151242	Aug/30/2022	Aug/29/2023
EMCI	Amplifier	EMC 074225P	980155	Calibration not required	Calibration not required
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101974	Oct/18/2022	Oct/17/2023
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Agilent	Radio Communication Test	E5515C 8960	GB44051912	Mar/25/2022	Mar/24/2023
R&S	Radio Communication Test	CMW 500	165070	Oct/20/2022	Oct/19/2023
TECPEL	Digital thermometer	DTM-303A	TP130077	Sep/29/2022	Sep/28/2023

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9 UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy , Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Mechanical restrictions	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.07%	N	1	1	0.64	0.43	1.32%	0.89%	M
Liquid Conductivity (mea.)	4.55%	N	1	1	0.6	0.49	2.73%	2.23%	M
Combined standard uncertainty		RSS					11.81%	11.66%	
Expant uncertainty (95% confidence interval), K=2							23.63%	23.32%	

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10 SAR MEASUREMENT RESULTS

Date: 2023/1/5

ID: 001

Report No. :TESA2212000585EN

GPRS850_Body_Top Edge_CH 190_0mm

Communication System: GPRS(1Dn4Up); Frequency: 836.6 MHz; Duty cycle= 1:2

Medium parameters used: $f = 837 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 41.507$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 836.6 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.868 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 11.67 V/m; Power Drift = 0.16 dB

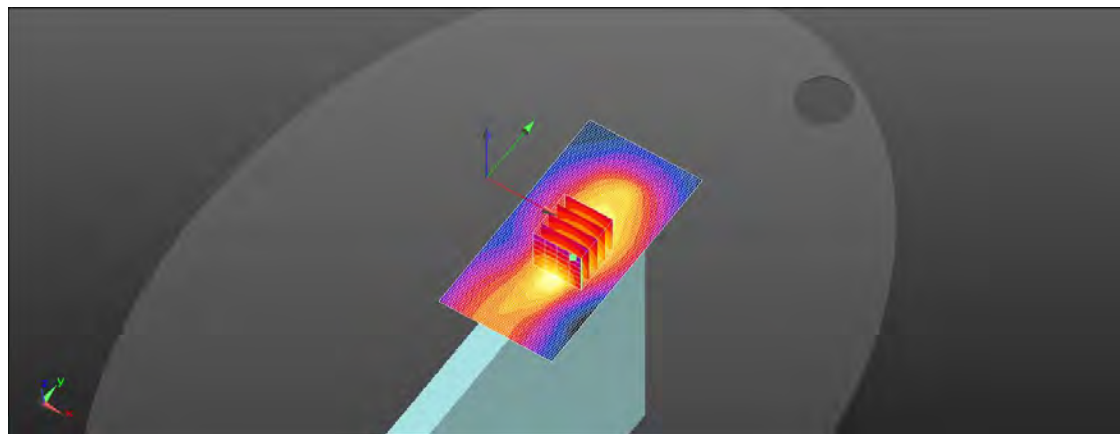
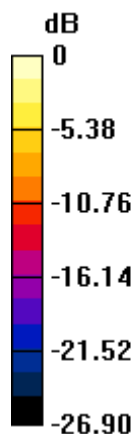
Peak SAR (extrapolated) = 1.10 W/kg

SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.342 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 49.8%

Maximum value of SAR (measured) = 0.875 W/kg



0 dB = 0.868 W/kg = -0.62 dBW/kg

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Date: 2023/1/8

ID: 002

Report No. :TESA2212000585EN

GPRS1900_Body_Top Edge_CH 512_0mm

Communication System: GPRS(1Dn4Up); Frequency: 1850.2 MHz; Duty cycle= 1:2

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.403 \text{ S/m}$; $\epsilon_r = 40.722$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1850.2 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.675 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.511 V/m; Power Drift = 0.18 dB

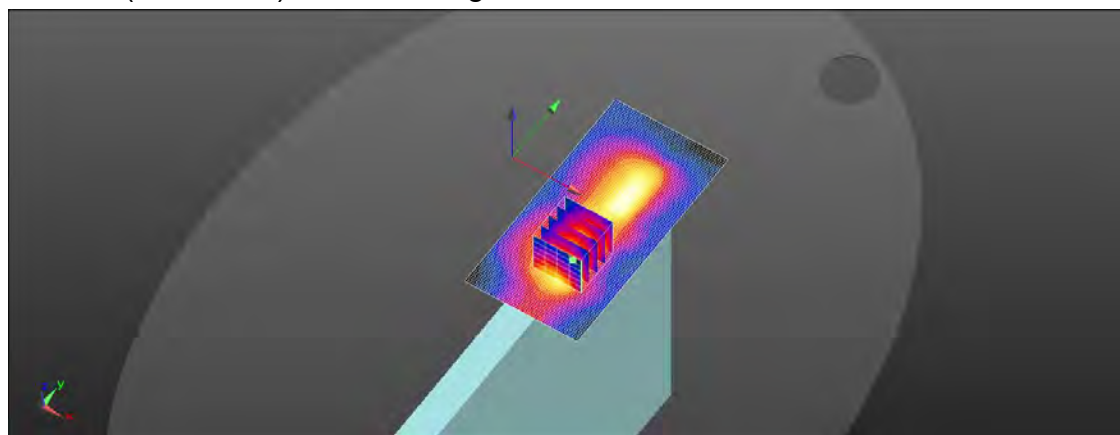
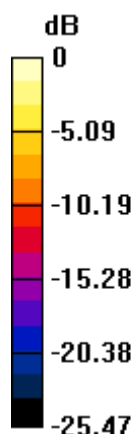
Peak SAR (extrapolated) = 0.803 W/kg

SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.218 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 0.683 W/kg



0 dB = 0.675 W/kg = -1.70 dBW/kg

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Date: 2023/1/8

ID: 003

Report No. :TESA2212000585EN

CAT.M1 Band 2 (5MHz)_Body_Top Edge_CH 19175_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1907.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1907.5 \text{ MHz}$; $\sigma = 1.436 \text{ S/m}$; $\epsilon_r = 40.677$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1907.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.224 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.273 V/m; Power Drift = 0.06 dB

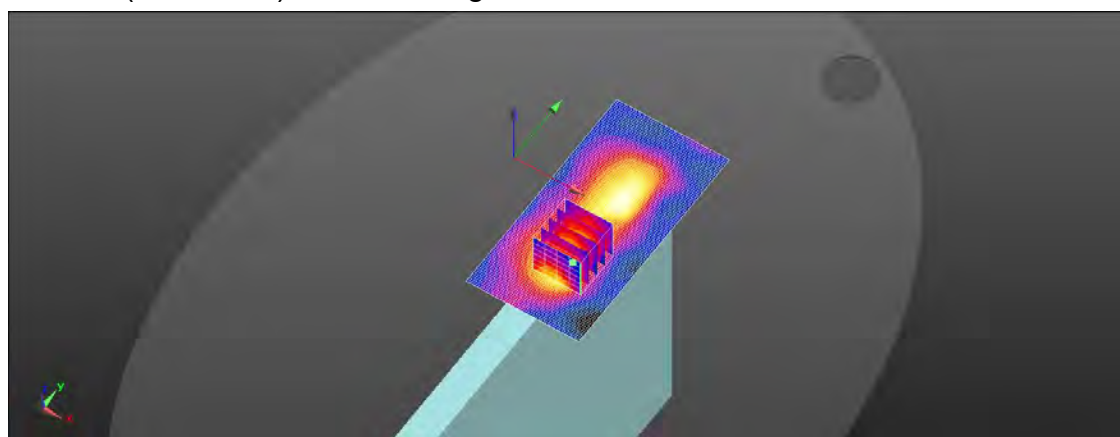
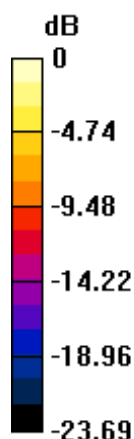
Peak SAR (extrapolated) = 0.332 W/kg

SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.091 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.1%

Maximum value of SAR (measured) = 0.284 W/kg



0 dB = 0.224 W/kg = -6.50 dBW/kg

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Date: 2023/1/7

ID: 004

Report No. :TESA2212000585EN

CAT.M1 Band 4 (5MHz)_Body_Top Edge_CH 20375_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1752.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1752.5 \text{ MHz}$; $\sigma = 1.358 \text{ S/m}$; $\epsilon_r = 40.879$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.71, 8.71, 8.71) @ 1752.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.156 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.133 V/m; Power Drift = 0.09 dB

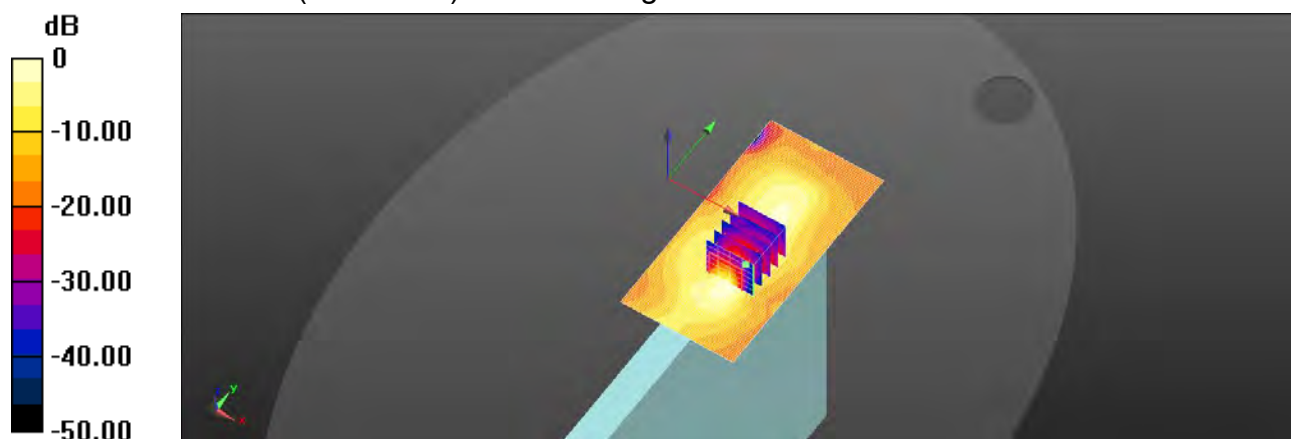
Peak SAR (extrapolated) = 0.241 W/kg

SAR(1 g) = 0.130 W/kg; SAR(10 g) = 0.059 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 0.191 W/kg



0 dB = 0.156 W/kg = -8.07 dBW/kg

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Date: 2023/1/5

ID: 005

Report No. :TESA2212000585EN

CAT.M1 Band 5 (5MHz)_Body_Top Edge_CH 20625_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 846.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 846.5 \text{ MHz}$; $\sigma = 0.894 \text{ S/m}$; $\epsilon_r = 41.469$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 846.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.415 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.542 V/m; Power Drift = 0.09 dB

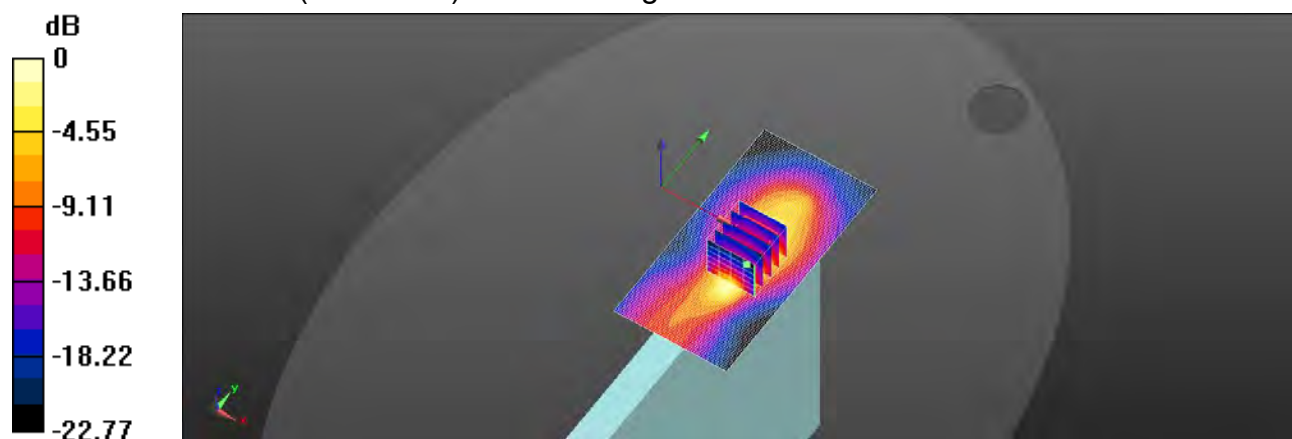
Peak SAR (extrapolated) = 0.578 W/kg

SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.150 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 0.451 W/kg



0 dB = 0.415 W/kg = -3.82 dBW/kg

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Date: 2023/1/4

ID: 006

Report No. :TESA2212000585EN

CAT.M1 Band 12 (5MHz)_Body_Top Edge_CH 23095_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 707.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 708 \text{ MHz}$; $\sigma = 0.857 \text{ S/m}$; $\epsilon_r = 42.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 707.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.378 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.614 V/m; Power Drift = 0.11 dB

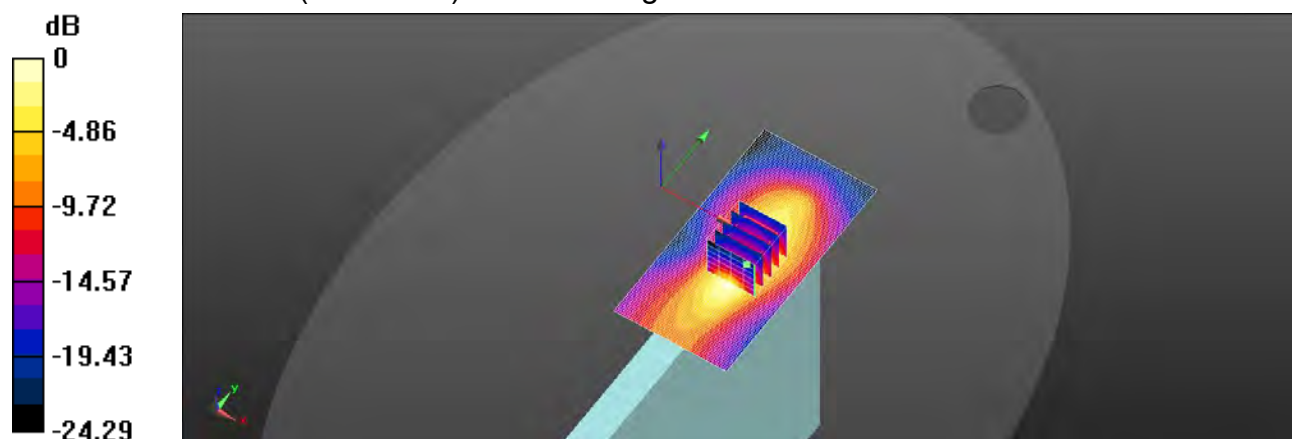
Peak SAR (extrapolated) = 0.568 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.157 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.1%

Maximum value of SAR (measured) = 0.408 W/kg



0 dB = 0.378 W/kg = -4.22 dBW/kg

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Date: 2023/1/4

ID: 007

Report No. :TESA2212000585EN

CAT.M1 Band 13 (5MHz)_Body_Top Edge_CH 23255_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 784.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 784.5 \text{ MHz}$; $\sigma = 0.917 \text{ S/m}$; $\epsilon_r = 41.877$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 784.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.456 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.132 V/m; Power Drift = 0.09 dB

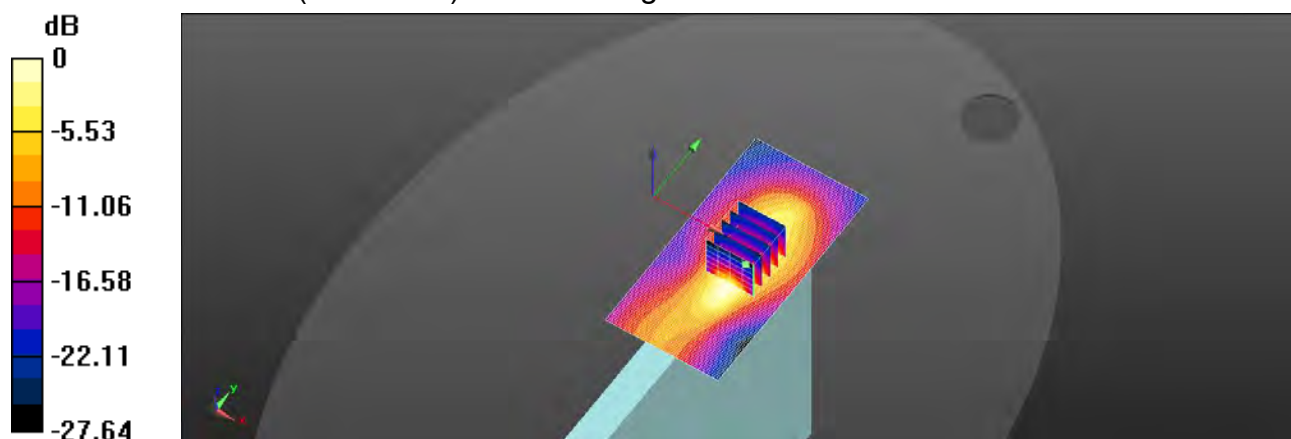
Peak SAR (extrapolated) = 0.612 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.168 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 0.470 W/kg



0 dB = 0.456 W/kg = -3.41 dBW/kg

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Date: 2023/1/4

ID: 008

Report No. :TESA2212000585EN

CAT.M1 Band 14 (5MHz)_Body_Top Edge_CH 23355_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 795.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 795.5 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 41.771$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 795.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.425 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.975 V/m; Power Drift = 0.09 dB

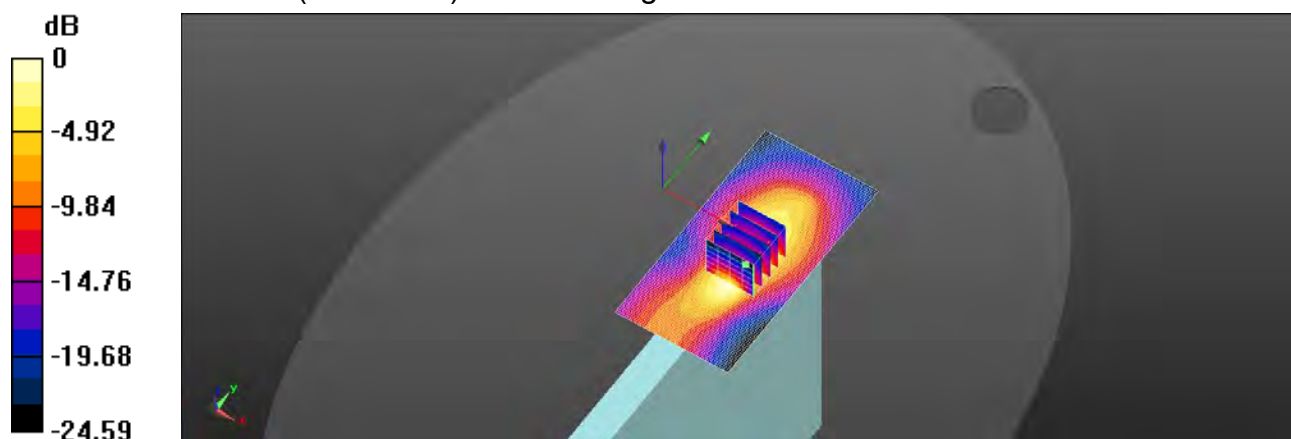
Peak SAR (extrapolated) = 0.638 W/kg

SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.173 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 0.488 W/kg



0 dB = 0.425 W/kg = -3.71 dBW/kg

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Date: 2023/1/8

ID: 009

Report No. :TESA2212000585EN

CAT.M1 Band 25 (5MHz)_Body_Top Edge_CH 26665_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1912.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1912.5 \text{ MHz}$; $\sigma = 1.441 \text{ S/m}$; $\epsilon_r = 40.672$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1912.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.304 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.287 V/m; Power Drift = 0.06 dB

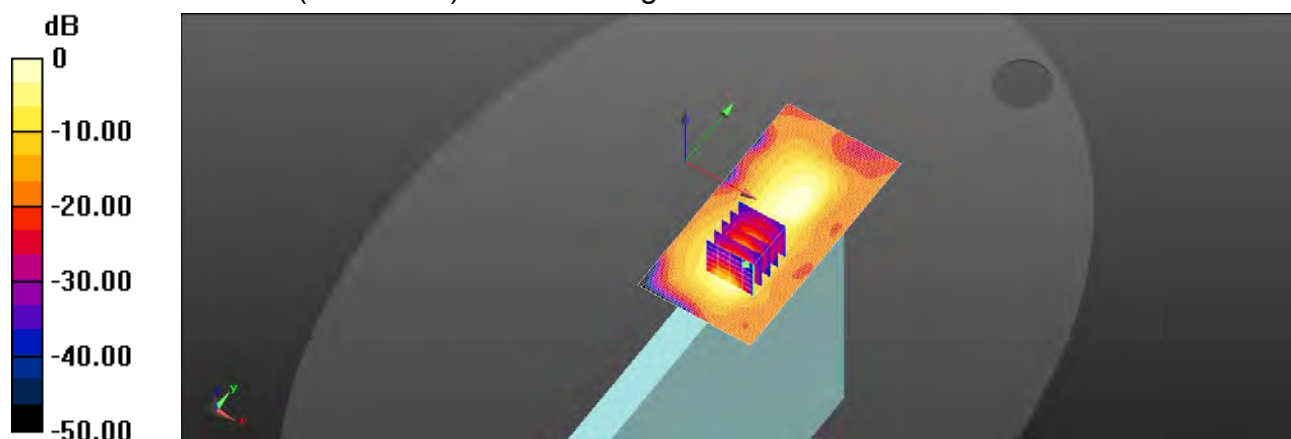
Peak SAR (extrapolated) = 0.457 W/kg

SAR(1 g) = 0.261 W/kg; SAR(10 g) = 0.124 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.9%

Maximum value of SAR (measured) = 0.372 W/kg



0 dB = 0.304 W/kg = -5.18 dBW/kg

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Date: 2023/1/5

ID: 010

Report No. :TESA2212000585EN

CAT.M1 Band 26 (5MHz)_Body_Top Edge_CH 26865_QPSK_1-0_Index 0_0mm_FCC

Communication System: CAT.M1; Frequency: 831.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 831.5 \text{ MHz}$; $\sigma = 0.871 \text{ S/m}$; $\epsilon_r = 41.525$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 831.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.377 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.655 V/m; Power Drift = 0.09 dB

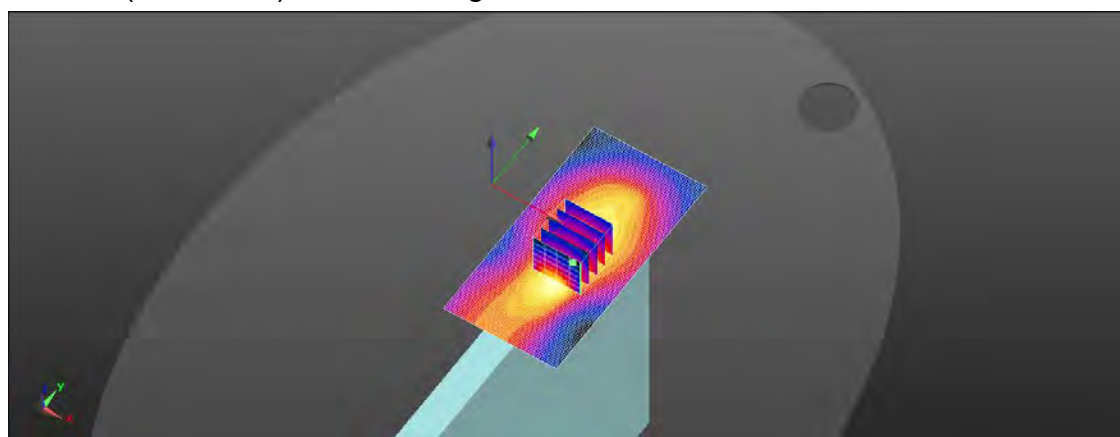
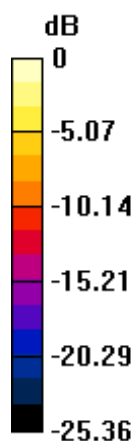
Peak SAR (extrapolated) = 0.583 W/kg

SAR(1 g) = 0.288 W/kg; SAR(10 g) = 0.152 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 0.443 W/kg



0 dB = 0.377 W/kg = -4.23 dBW/kg

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Date: 2023/1/7

ID: 012

Report No. :TESA2212000585EN

CAT.M1 Band 66 (5MHz)_Body_Top Edge_CH 132647_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1777.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1777.5 \text{ MHz}$; $\sigma = 1.366 \text{ S/m}$; $\epsilon_r = 40.827$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.71, 8.71, 8.71) @ 1777.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.182 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.879 V/m; Power Drift = 0.17 dB

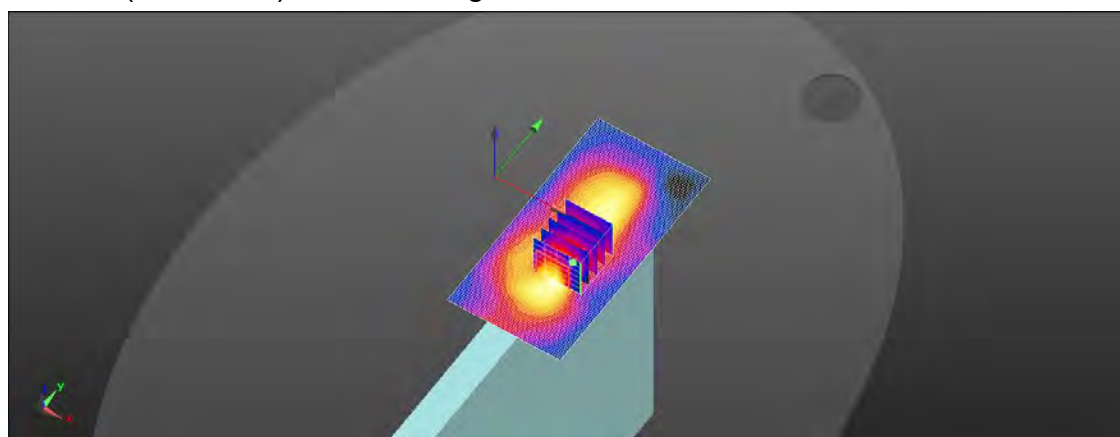
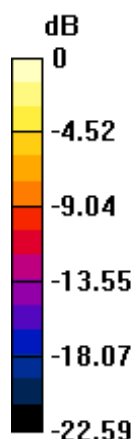
Peak SAR (extrapolated) = 0.294 W/kg

SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.071 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 60.4%

Maximum value of SAR (measured) = 0.225 W/kg



0 dB = 0.182 W/kg = -7.40 dBW/kg

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Date: 2023/1/4

ID: 013

Report No. :TESA2212000585EN

CAT.M1 Band 85 (5MHz)_Body_Top Edge_CH 134092_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 707 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 707 \text{ MHz}$; $\sigma = 0.856 \text{ S/m}$; $\epsilon_r = 42.836$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 707 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.360 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.304 V/m; Power Drift = 0.09 dB

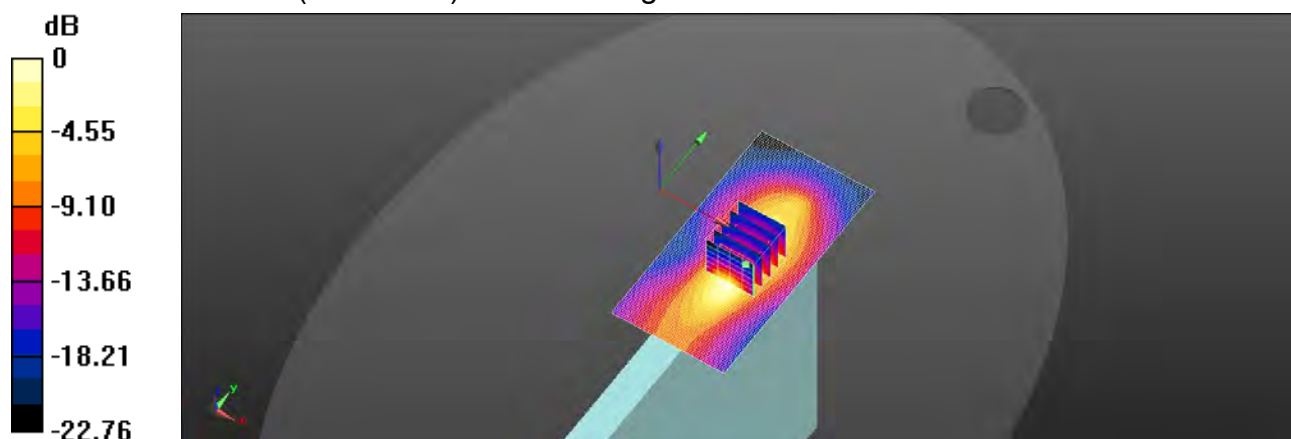
Peak SAR (extrapolated) = 0.529 W/kg

SAR(1 g) = 0.280 W/kg; SAR(10 g) = 0.154 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.3%

Maximum value of SAR (measured) = 0.389 W/kg



0 dB = 0.360 W/kg = -4.44 dBW/kg

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Date: 2023/1/5

ID: 014

Report No. :TESA2212000585EN

GPRS850_Body_Top Edge_CH 128_0mm

Communication System: GPRS(1Dn4Up); Frequency: 824.2 MHz; Duty cycle= 1:2

Medium parameters used: $f = 824.2 \text{ MHz}$; $\sigma = 0.858 \text{ S/m}$; $\epsilon_r = 41.567$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 824.2 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.49 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.38 V/m; Power Drift = 0.17 dB

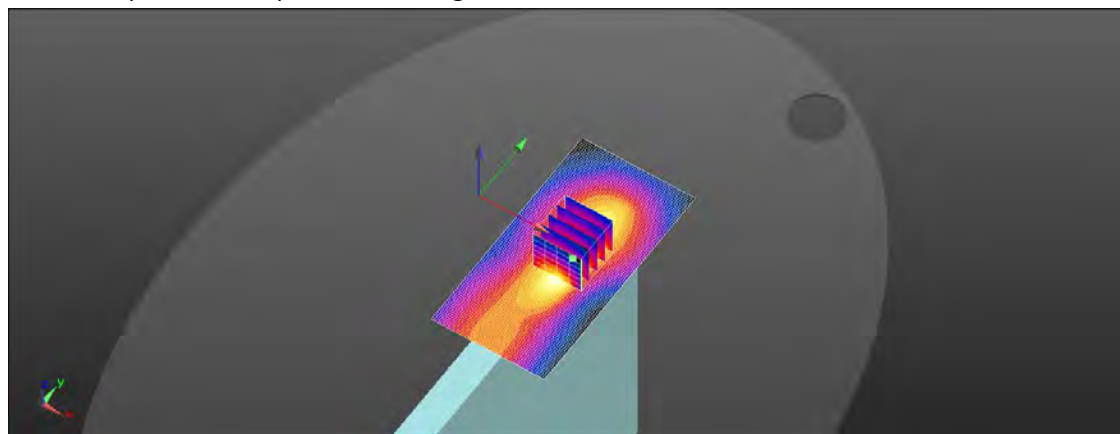
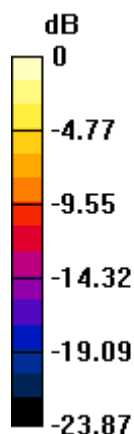
Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.613 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 46%

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.49 W/kg = 1.74 dBW/kg

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Date: 2023/1/8

ID: 015

Report No. :TESA2212000585EN

GPRS1900_Body_Top Edge_CH 810_0mm

Communication System: GPRS(1Dn4Up); Frequency: 1909.8 MHz; Duty cycle= 1:2

Medium parameters used: $f = 1910 \text{ MHz}$; $\sigma = 1.439 \text{ S/m}$; $\epsilon_r = 40.675$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1909.8 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.26 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.575 V/m; Power Drift = 0.13 dB

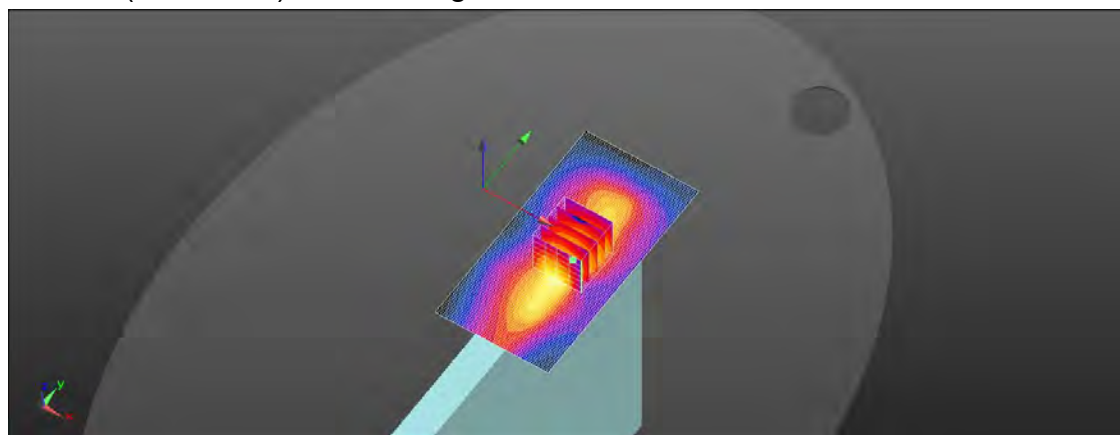
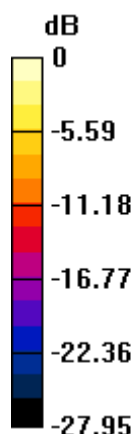
Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.561 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.3%

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.26 W/kg = 1.02 dBW/kg

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Date: 2023/1/8

ID: 016

Report No. :TESA2212000585EN

CAT.M1 Band 2 (5MHz)_Body_Top Edge_CH 19175_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1907.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1907.5$ MHz; $\sigma = 1.436$ S/m; $\epsilon_r = 40.677$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1907.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.263 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.393 V/m; Power Drift = 0.05 dB

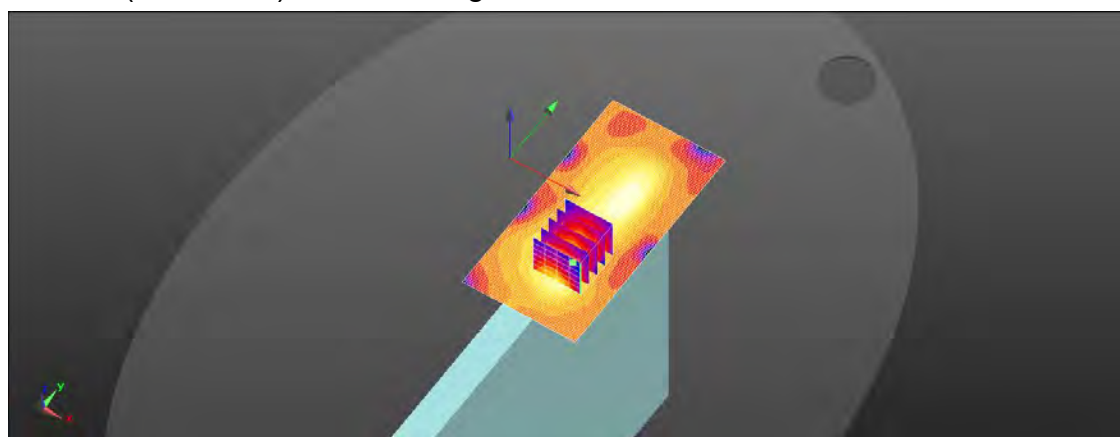
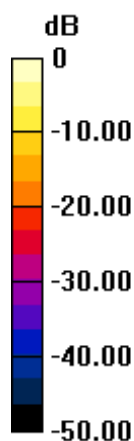
Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.081 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.271 W/kg



0 dB = 0.263 W/kg = -5.79 dBW/kg

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Date: 2023/1/7

ID: 017

Report No. :TESA2212000585EN

CAT.M1 Band 4 (5MHz)_Body_Top Edge_CH 19975_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1712.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1712.5 \text{ MHz}$; $\sigma = 1.325 \text{ S/m}$; $\epsilon_r = 40.946$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.71, 8.71, 8.71) @ 1712.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.392 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.927 V/m; Power Drift = 0.08 dB

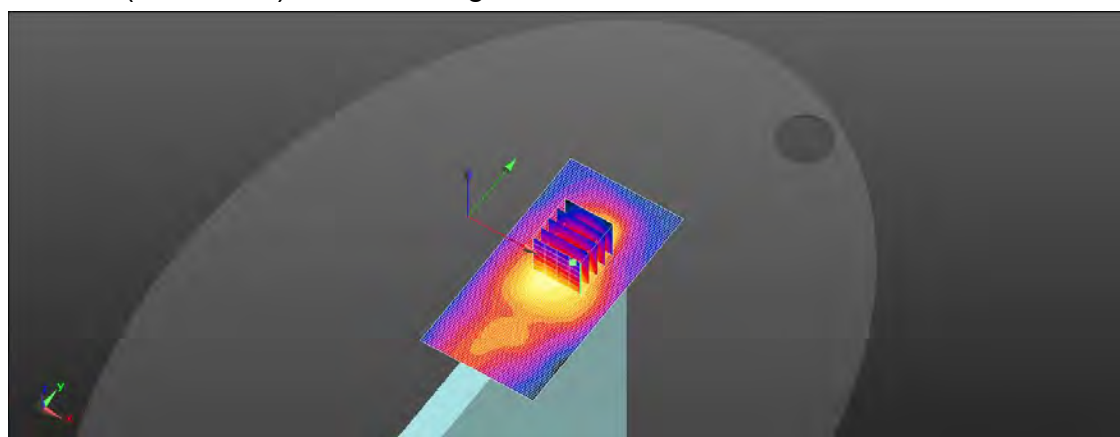
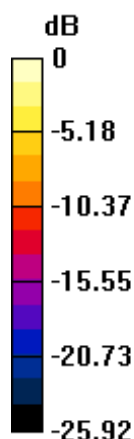
Peak SAR (extrapolated) = 0.521 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 0.428 W/kg



0 dB = 0.392 W/kg = -4.07 dBW/kg

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Date: 2023/1/5

ID: 018

Report No. :TESA2212000585EN

CAT.M1 Band 5 (5MHz)_Body_Top Edge_CH 20425_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 826.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 826.5 \text{ MHz}$; $\sigma = 0.861 \text{ S/m}$; $\epsilon_r = 41.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 826.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.894 V/m; Power Drift = 0.06 dB

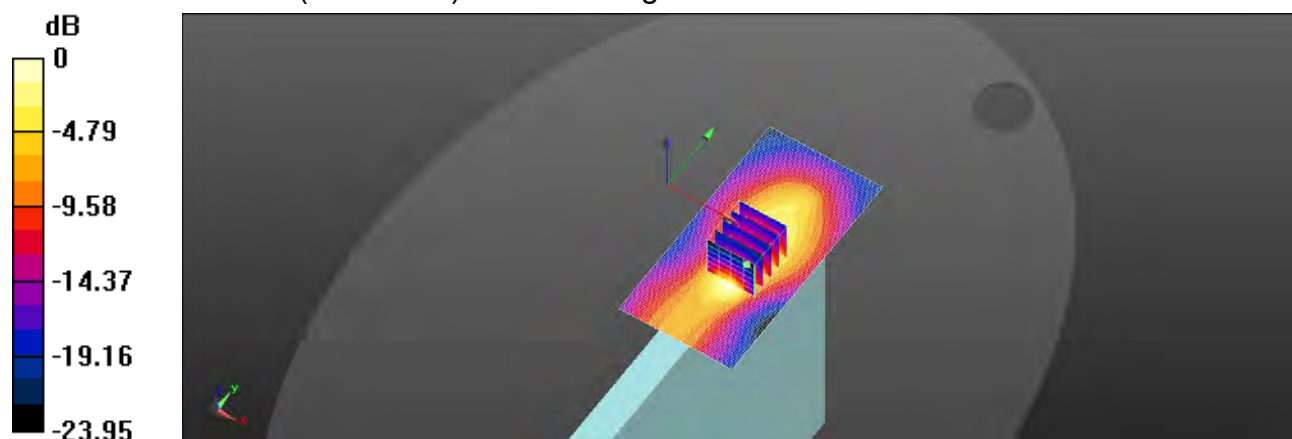
Peak SAR (extrapolated) = 0.259 W/kg

SAR(1 g) = 0.133 W/kg; SAR(10 g) = 0.076 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.3%

Maximum value of SAR (measured) = 0.198 W/kg



0 dB = 0.184 W/kg = -7.35 dBW/kg

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Date: 2023/1/4

ID: 019

Report No. :TESA2212000585EN

CAT.M1 Band 12 (5MHz)_Body_Top Edge_CH 23095_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 707.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 708 \text{ MHz}$; $\sigma = 0.857 \text{ S/m}$; $\epsilon_r = 42.82$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 707.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.278 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.872 V/m; Power Drift = 0.04 dB

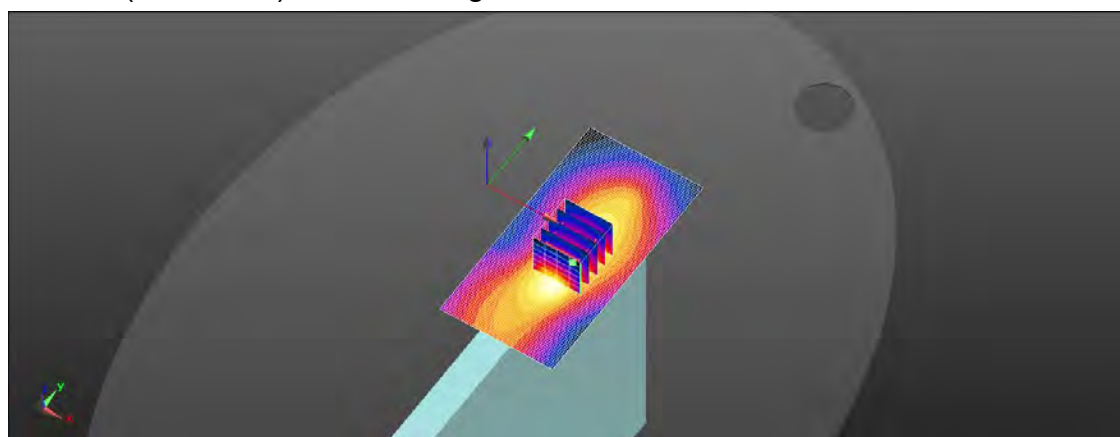
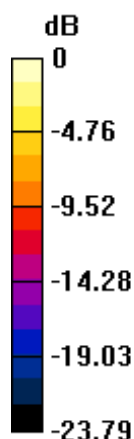
Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.200 W/kg; SAR(10 g) = 0.111 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 0.292 W/kg



0 dB = 0.278 W/kg = -5.56 dBW/kg

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Date: 2023/1/4

ID: 020

Report No. :TESA2212000585EN

CAT.M1 Band 13 (5MHz)_Body_Top Edge_CH 23205_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 779.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 779.5 \text{ MHz}$; $\sigma = 0.908 \text{ S/m}$; $\epsilon_r = 41.893$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 779.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.259 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.922 V/m; Power Drift = 0.12 dB

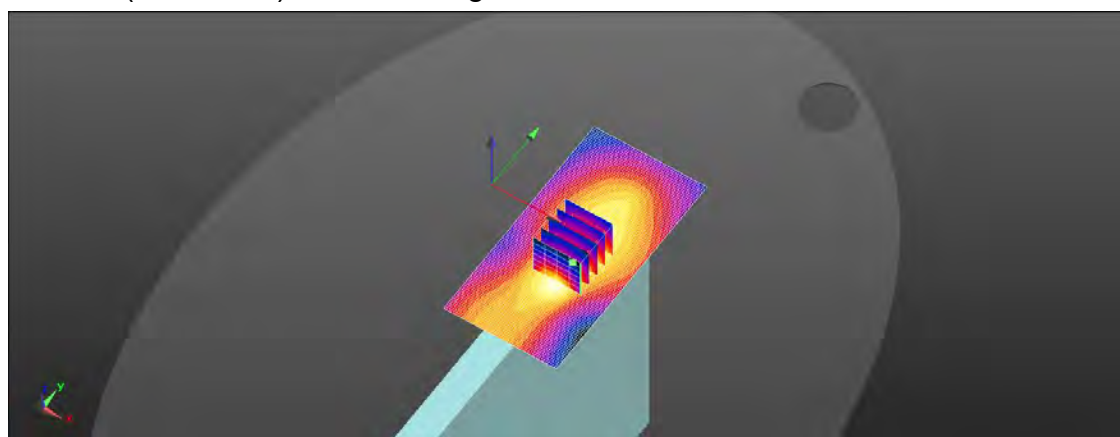
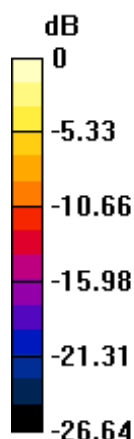
Peak SAR (extrapolated) = 0.369 W/kg

SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.104 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.2%

Maximum value of SAR (measured) = 0.281 W/kg



0 dB = 0.259 W/kg = -5.87 dBW/kg

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Date: 2023/1/4

ID: 021

Report No. :TESA2212000585EN

CAT.M1 Band 14 (5MHz)_Body_Top Edge_CH 23355_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 795.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 795.5 \text{ MHz}$; $\sigma = 0.925 \text{ S/m}$; $\epsilon_r = 41.771$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 795.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.227 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.244 V/m; Power Drift = 0.15 dB

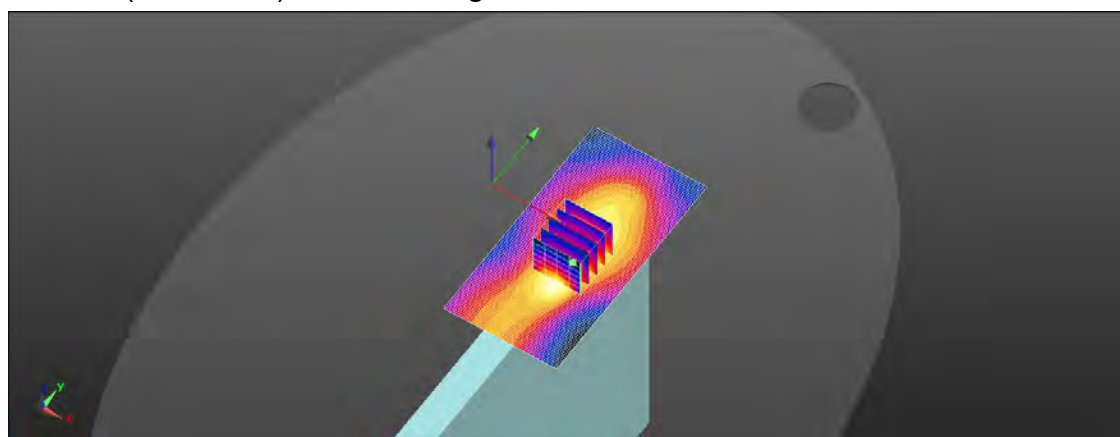
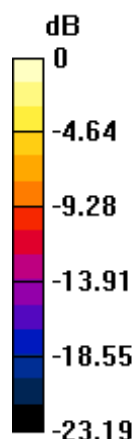
Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.164 W/kg; SAR(10 g) = 0.091 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.227 W/kg = -6.45 dBW/kg

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Date: 2023/1/8

ID: 022

Report No. :TESA2212000585EN

CAT.M1 Band 25 (5MHz)_Body_Top Edge_CH 26065_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1852.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1852.5$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 40.721$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1852.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.219 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.448 V/m; Power Drift = 0.07 dB

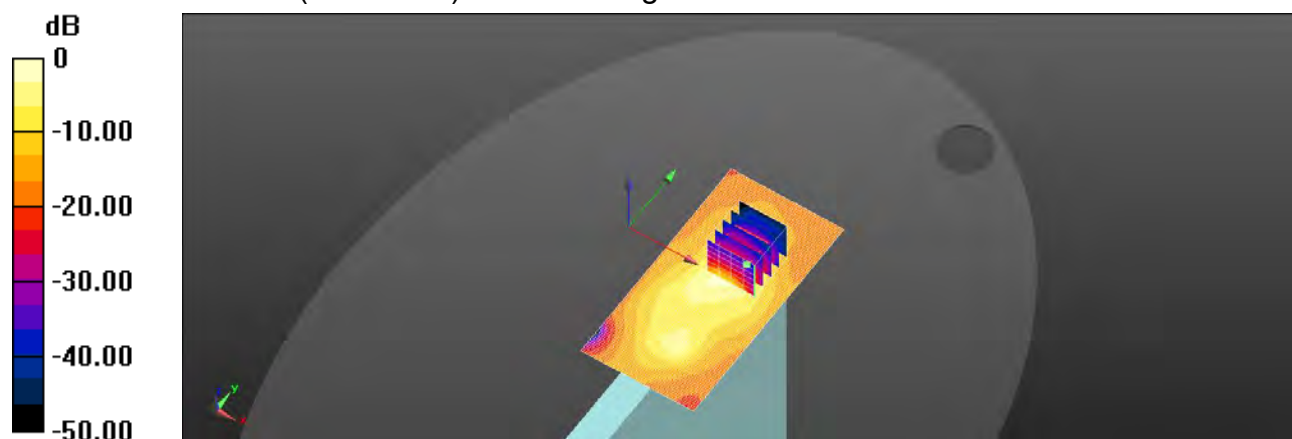
Peak SAR (extrapolated) = 0.305 W/kg

SAR(1 g) = 0.150 W/kg; SAR(10 g) = 0.073 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.9%

Maximum value of SAR (measured) = 0.243 W/kg



0 dB = 0.219 W/kg = -6.60 dBW/kg

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Date: 2023/1/5

ID: 023

Report No. :TESA2212000585EN

CAT.M1 Band 26 (5MHz)_Body_Top Edge_CH 26865_QPSK_1-0_Index 0_0mm_FCC

Communication System: CAT.M1; Frequency: 831.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 831.5 \text{ MHz}$; $\sigma = 0.871 \text{ S/m}$; $\epsilon_r = 41.525$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 831.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.197 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.097 V/m; Power Drift = 0.12 dB

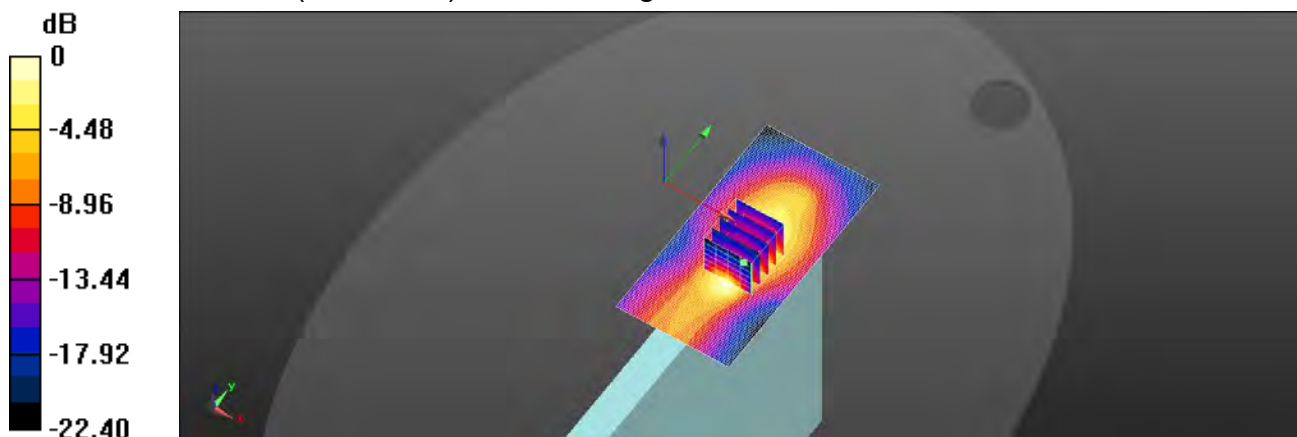
Peak SAR (extrapolated) = 0.275 W/kg

SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.080 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

Maximum value of SAR (measured) = 0.211 W/kg



0 dB = 0.197 W/kg = -7.06 dBW/kg

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Date: 2023/1/7

ID: 025

Report No. :TESA2212000585EN

CAT.M1 Band 66 (5MHz)_Body_Top Edge_CH 132647_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 1777.5 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 1777.5 \text{ MHz}$; $\sigma = 1.366 \text{ S/m}$; $\epsilon_r = 40.827$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.71, 8.71, 8.71) @ 1777.5 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.407 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.173 V/m; Power Drift = 0.07 dB

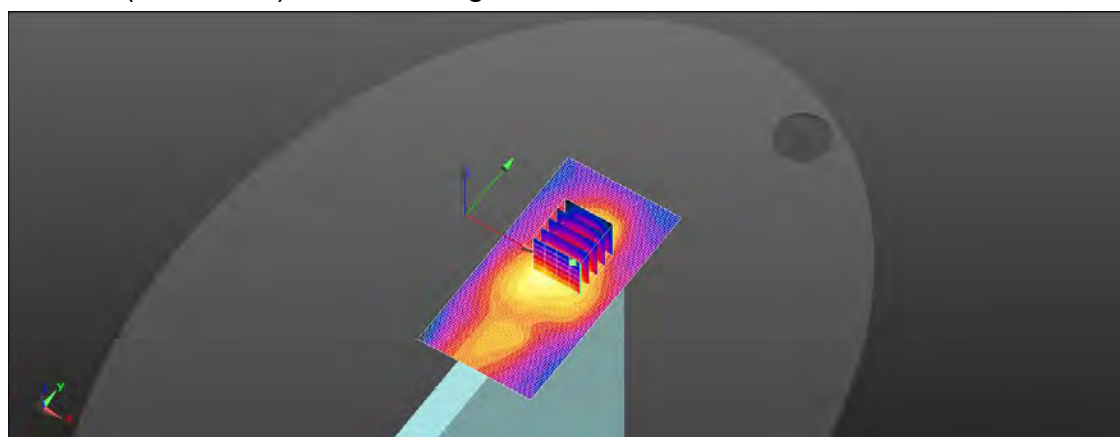
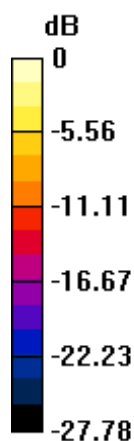
Peak SAR (extrapolated) = 0.559 W/kg

SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.159 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 0.464 W/kg



0 dB = 0.407 W/kg = -3.90 dBW/kg

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Date: 2023/1/4

ID: 026

Report No. :TESA2212000585EN

CAT.M1 Band 85 (5MHz)_Body_Top Edge_CH 134092_QPSK_1-0_Index 0_0mm

Communication System: CAT.M1; Frequency: 707 MHz; Duty cycle= 1:3.32

Medium parameters used: $f = 707 \text{ MHz}$; $\sigma = 0.856 \text{ S/m}$; $\epsilon_r = 42.836$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 707 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.273 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.634 V/m; Power Drift = 0.13 dB

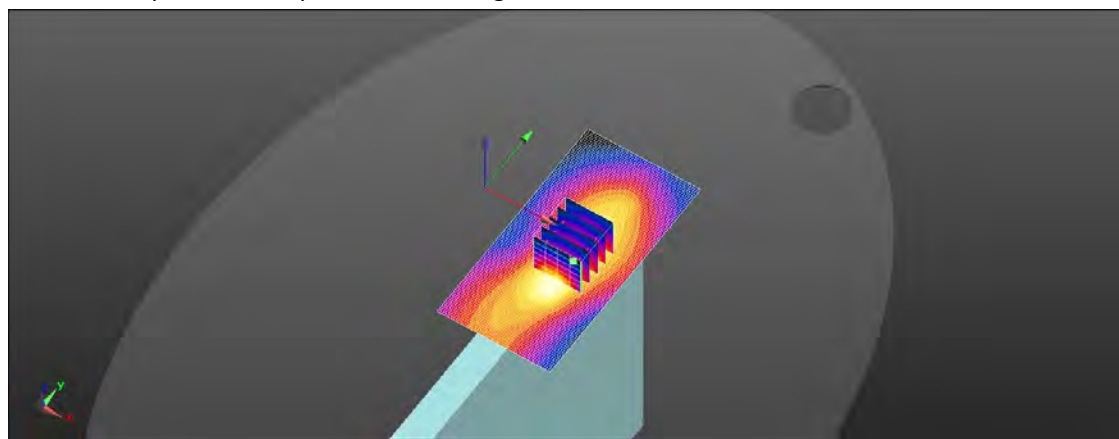
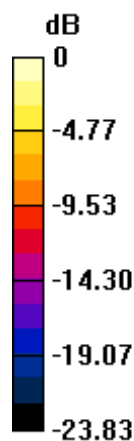
Peak SAR (extrapolated) = 0.391 W/kg

SAR(1 g) = 0.197 W/kg; SAR(10 g) = 0.107 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.7%

Maximum value of SAR (measured) = 0.292 W/kg



0 dB = 0.273 W/kg = -5.63 dBW/kg

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11 SAR SYSTEM CHECK RESULTS

Date: 2023/1/4

Report No. :TESA2212000585EN

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 41.989$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(10.13, 10.13, 10.13) @ 750 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x141x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.53 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.33 V/m; Power Drift = 0.02 dB

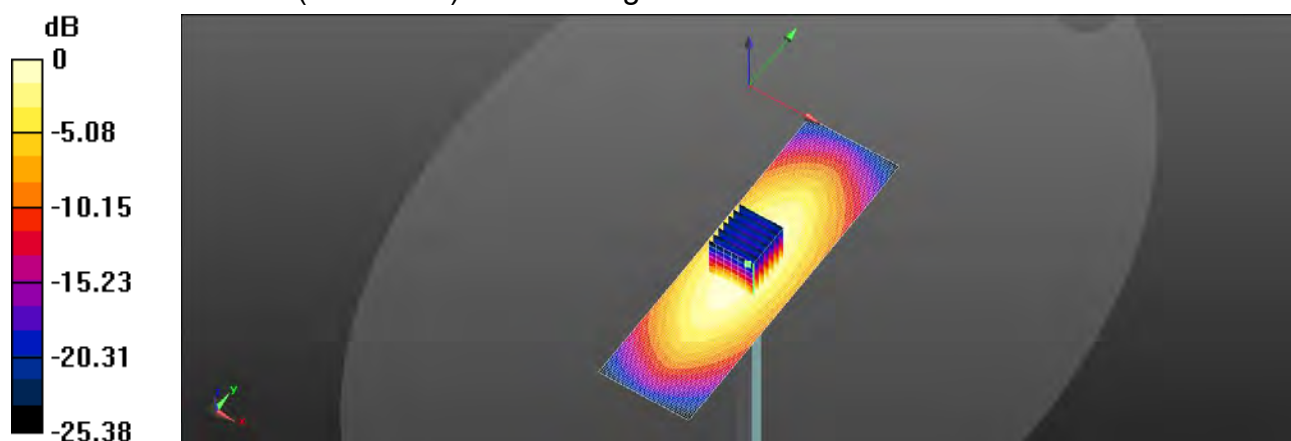
Peak SAR (extrapolated) = 2.96 W/kg

SAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.41 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 2.56 W/kg



0 dB = 2.53 W/kg = 4.03 dBW/kg

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Date: 2023/1/5

Report No. :TESA2212000585EN

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.875 \text{ S/m}$; $\epsilon_r = 41.513$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.91, 9.91, 9.91) @ 835 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 3.21 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.09 V/m; Power Drift = -0.09 dB

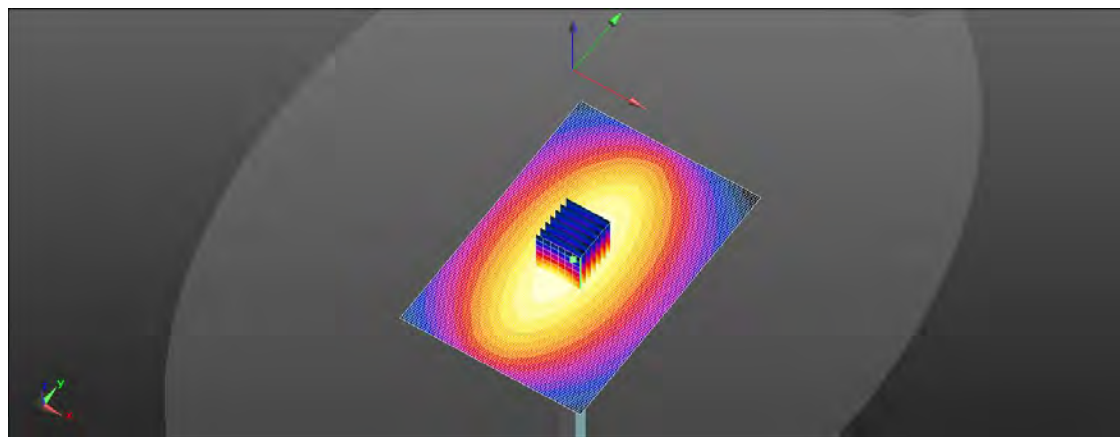
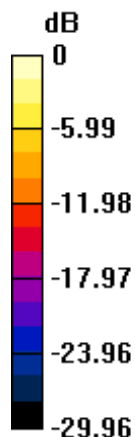
Peak SAR (extrapolated) = 3.76 W/kg

SAR(1 g) = 2.45 W/kg; SAR(10 g) = 1.57 W/kg

Smallest distance from peaks to all points 3 dB below = 22.6 mm

Ratio of SAR at M2 to SAR at M1 = 66.6%

Maximum value of SAR (measured) = 3.17 W/kg



0 dB = 3.21 W/kg = 5.07 dBW/kg

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Date: 2023/1/7

Report No. :TESA2212000585EN

Dipole 1750 MHz_SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1750 \text{ MHz}$; $\sigma = 1.355 \text{ S/m}$; $\epsilon_r = 40.89$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.71, 8.71, 8.71) @ 1750 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.2 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 84.81 V/m; Power Drift = 0.01 dB

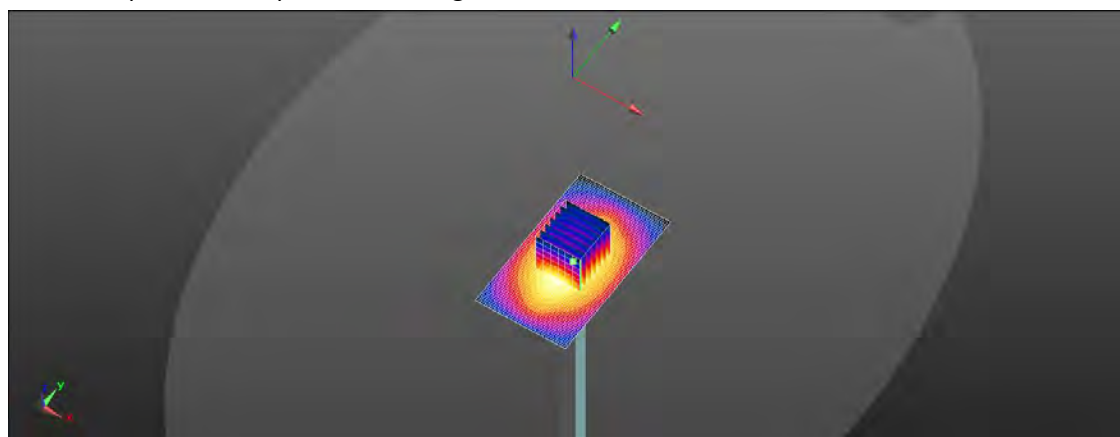
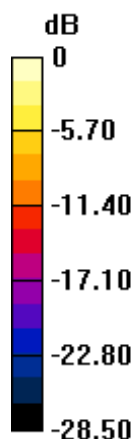
Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 8.79 W/kg; SAR(10 g) = 4.6 W/kg

Smallest distance from peaks to all points 3 dB below = 11 mm

Ratio of SAR at M2 to SAR at M1 = 53.1%

Maximum value of SAR (measured) = 12.7 W/kg



0 dB = 13.2 W/kg = 11.20 dBW/kg

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Date: 2023/1/8

Report No. :TESA2212000585EN**Dipole 1900 MHz_SN:5d173**

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 40.686$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.36, 8.36, 8.36) @ 1900 MHz; Calibrated: 2022/5/2
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn558; Calibrated: 2022/11/7
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.8 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 99.44 V/m; Power Drift = 0.09 dB

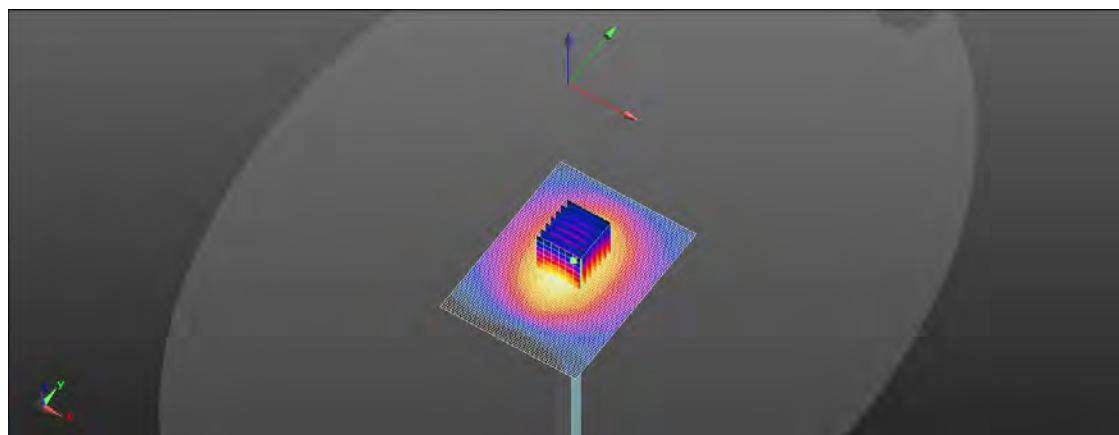
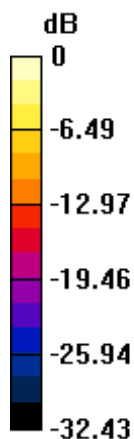
Peak SAR (extrapolated) = 18.1 W/kg

SAR(1 g) = 9.82 W/kg; SAR(10 g) = 5.19 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

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12 APPENDIXES

Refer to separated files for the following appendixes.

12.1 SAR_Appendix A Photographs

12.2 SAR_Appendix B DAE & Probe Cal. Certificate

12.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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