

EXHIBIT Q

Analysis of Infringement of U.S. Patent No. 8,676,538 by Huawei Device USA Inc., Huawei Device Co., Ltd., and HiSilicon Technologies Co., Ltd. (Based on Public Information Only)

Plaintiff Ocean Semiconductor LLC (“Ocean Semiconductor”), provides this preliminary and exemplary infringement analysis of U.S. Patent No. 8,676,538, entitled “ADJUSTING WEIGHTING OF A PARAMETER READING TO A FAULT DETECTION BASED ON A FAULT DETECTION RATE” (the “’538 patent”) by Huawei Device USA Inc., Huawei Device Co., Ltd., and HiSilicon Technologies Co., Ltd. (“Huawei”). The following analysis is based on public information regarding infringement by Defendant Huawei’s semiconductor products, systems, devices, components, integrated circuits, and products, including PDF Solutions, Inc.’s (“PDF Solutions”) platforms, and/or framework, including PDF Solutions’ software and APC system, and/or software (collectively, “Exensio”) and/or other APC system and platform hardware and/or software. Such products include, but are not limited to, solutions (e.g., Hi3559A V100, Hi3519A V100, Hi3516D V300, Hi3556A V100, Hi3559 V200, Hi3559A V100, Hi3559C V100, Hi3559D V100, Hi3559E V100, Hi3559F V100, Hi3559G V100, Hi3559H V100, Hi3559I V100, Hi3559J V100, Hi3559K V100, Hi3559L V100, Hi3559M V100, Hi3559N V100, Hi3559O V100, Hi3559P V100, Hi3559Q V100, Hi3559R V100, Hi3559S V100, Hi3559T V100, Hi3559U V100, Hi3559V V100, Hi3559W V100, Hi3559X V100, Hi3559Y V100, Hi3559Z V100, Hi3559AA V100, Hi3559AB V100, Hi3559AC V100, Hi3559AD V100, Hi3559AE V100, Hi3559AF V100, Hi3559AG V100, Hi3559AH V100, Hi3559AI V100, Hi3559AJ V100, Hi3559AK V100, Hi3559AL V100, Hi3559AM V100, Hi3559AN V100, Hi3559AO V100, Hi3559AP V100, Hi3559AQ V100, Hi3559AR V100, Hi3559AS V100, Hi3559AT V100, Hi3559AU V100, Hi3559AV V100, Hi3559AW V100, Hi3559AX V100, Hi3559AY V100, Hi3559AZ V100, Hi3559BA V100, Hi3559BB V100, Hi3559BC V100, Hi3559BD V100, Hi3559BE V100, Hi3559BF V100, Hi3559BG V100, Hi3559BH V100, 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V100, Hi3559DX V100, Hi3559DY V100, Hi3559DZ V100, Hi3559EA V100, Hi3559EB V100, Hi3559EC V100, Hi3559ED V100, Hi3559EE V100, Hi3559EF V100, Hi3559EG V100, Hi3559EH V100, Hi3559EI V100, Hi3559EJ V100, Hi3559EK V100, Hi3559EL V100, Hi3559EM V100, Hi3559EN V100, Hi3559EO V100, Hi3559EP V100, Hi3559EQ V100, Hi3559ER V100, Hi3559ES V100, Hi3559ET V100, Hi3559EU V100, Hi3559EV V100, Hi3559EW V100, Hi3559EX V100, Hi3559EY V100, Hi3559EZ V100, Hi3559FA V100, Hi3559FB V100, Hi3559FC V100, Hi3559FD V100, Hi3559FE V100, Hi3559FF V100, Hi3559FG V100, Hi3559FH V100, Hi3559FI V100, Hi3559FJ V100, Hi3559FK V100, Hi3559FL V100, Hi3559FM V100, Hi3559FN V100, Hi3559FO V100, Hi3559FP V100, Hi3559FQ V100, Hi3559FR V100, Hi3559FS V100, Hi3559FT V100, Hi3559FU V100, Hi3559FV V100, Hi3559FW V100, Hi3559FX V100, Hi3559FY V100, Hi3559FZ V100, Hi3559GA V100, Hi3559GB V100, Hi3559GC V100, Hi3559GD V100, Hi3559GE V100, Hi3559GF V100, Hi3559GG V100, Hi3559GH V100, Hi3559GI V100, Hi3559GJ V100, Hi3559GK V100, Hi3559GL V100, Hi3559GM V100, Hi3559GN V100, Hi3559GO V100, Hi3559GP V100, Hi3559GQ V100, Hi3559GR V100, Hi3559GS V100, Hi3559GT V100, Hi3559GU V100, Hi3559GV V100, Hi3559GW V100, Hi3559GX V100, Hi3559GY V100, Hi3559GZ V100, Hi3559HA V100, Hi3559HB V100, Hi3559HC V100, Hi3559HD V100, Hi3559HE V100, Hi3559HF V100, Hi3559HG V100, Hi3559HH V100, Hi3559HI V100, Hi3559HJ V100, Hi3559HK V100, Hi3559HL V100, Hi3559HM V100, Hi3559HN V100, Hi3559HO V100, Hi3559HP V100, Hi3559HQ V100, Hi3559HR V100, Hi3559HS V100, Hi3559HT V100, Hi3559HU V100, Hi3559HV V100, Hi3559HW V100, Hi3559HX V100, Hi3559HY V100, Hi3559HZ V100, Hi3559IA V100, Hi3559IB V100, Hi3559IC V100, Hi3559ID V100, Hi3559IE V100, Hi3559IF V100, Hi3559IG V100, Hi3559IH V100, Hi3559II V100, Hi3559IJ V100, Hi3559IK V100, Hi3559IL V100, Hi3559IM V100, Hi3559IN V100, Hi3559IO V100, Hi3559IP V100, Hi3559IQ V100, Hi3559IR V100, Hi3559IS V100, Hi3559IT V100, Hi3559IU V100, Hi3559IV V100, Hi3559IW V100, Hi3559IX V100, Hi3559IY V100, Hi3559IZ V100, Hi3559JA V100, Hi3559JB V100, Hi3559JC V100, Hi3559JD V100, Hi3559JE V100, Hi3559JF V100, Hi3559JG V100, Hi3559JH V100, Hi3559JI V100, Hi3559JJ V100, Hi3559JK V100, Hi3559JL V100, Hi3559JM V100, Hi3559JN V100, Hi3559JO V100, Hi3559JP V100, Hi3559JQ V100, Hi3559JR V100, Hi3559JS V100, Hi3559JT V100, Hi3559JU V100, Hi3559JV V100, Hi3559JW V100, Hi3559JX V100, Hi3559JY V100, Hi3559JZ V100, Hi3559KA V100, Hi3559KB V100, Hi3559KC V100, Hi3559KD V100, Hi3559KE V100, Hi3559KF V100, Hi3559KG V100, Hi3559KH V100, Hi3559KI V100, Hi3559KJ V100, Hi3559KK V100, Hi3559KL V100, Hi3559KM V100, Hi3559KN V100, Hi3559KO V100, Hi3559KP V100, Hi3559KQ V100, Hi3559KR V100, Hi3559KS V100, Hi3559KT V100, Hi3559KU V100, Hi3559KV V100, Hi3559KW V100, Hi3559KX V100, Hi3559KY V100, Hi3559KZ V100, Hi3559LA V100, Hi3559LB V100, Hi3559LC V100, Hi3559LD V100, Hi3559LE V100, Hi3559LF V100, Hi3559LG V100, Hi3559LH V100, Hi3559LI V100, Hi3559LJ V100, Hi3559LK V100, Hi3559LL V100, Hi3559LM V100, Hi3559LN V100, 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V100, Hi3559OE V100, Hi3559OF V100, Hi3559OG V100, Hi3559OH V100, Hi3559OI V100, Hi3559OJ V100, Hi3559OK V100, Hi3559OL V100, Hi3559OM V100, Hi3559ON V100, Hi3559OO V100, Hi3559OP V100, Hi3559OQ V100, Hi3559OR V100, Hi3559OS V100, Hi3559OT V100, Hi3559OU V100, Hi3559OV V100, Hi3559OW V100, Hi3559OX V100, Hi3559OY V100, Hi3559OZ V100, Hi3559PA V100, Hi3559PB V100, Hi3559PC V100, Hi3559PD V100, Hi3559PE V100, Hi3559PF V100, Hi3559PG V100, Hi3559PH V100, Hi3559PI V100, Hi3559PJ V100, Hi3559PK V100, Hi3559PL V100, Hi3559PM V100, Hi3559PN V100, Hi3559PO V100, Hi3559PP V100, Hi3559PQ V100, Hi3559PR V100, Hi3559PS V100, Hi3559PT V100, Hi3559PU V100, Hi3559PV V100, Hi3559PW V100, Hi3559PX V100, Hi3559PY V100, Hi3559PZ V100, Hi3559QA V100, Hi3559QB V100, Hi3559QC V100, Hi3559QD V100, Hi3559QE V100, Hi3559QF V100, Hi3559QG V100, Hi3559QH V100, Hi3559QI V100, Hi3559QJ V100, Hi3559QK V100, Hi3559QL V100, Hi3559QM V100, Hi3559QN V100, Hi3559QO V100, Hi3559QP V100, Hi3559QQ V100, Hi3559QR V100, Hi3559QS V100, Hi3559QT V100, Hi3559QU V100, Hi3559QV V100, Hi3559QW V100, Hi3559QX V100, Hi3559QY V100, Hi3559QZ V100, Hi3559RA V100, Hi3559RB V100, Hi3559RC V100, Hi3559RD V100, Hi3559RE V100, Hi3559RF V100, Hi3559RG V100, Hi3559RH V100, Hi3559RI V100, Hi3559RJ V100, Hi3559RK V100, Hi3559RL V100, Hi3559RM V100, Hi3559RN V100, Hi3559RO V100, Hi3559RP V100, Hi3559RQ V100, Hi3559RR V100, Hi3559RS V100, Hi3559RT V100, Hi3559RU V100, Hi3559RV V100, Hi3559RW V100, Hi3559RX V100, Hi3559RY V100, Hi3559RZ V100, Hi3559SA V100, Hi3559SB V100, Hi3559SC V100, Hi3559SD V100, Hi3559SE V100, Hi3559SF V100, Hi3559SG V100, Hi3559SH V100, Hi3559SI V100, Hi3559SJ V100, Hi3559SK V100, Hi3559SL V100, Hi3559SM V100, Hi3559SN V100, Hi3559SO V100, Hi3559SP V100, Hi3559SQ V100, Hi3559SR V100, Hi3559SS V100, Hi3559ST V100, Hi3559SU V100, Hi3559SV V100, Hi3559SW V100, Hi3559SX V100, Hi3559SY V100, Hi3559SZ V100, Hi3559TA V100, Hi3559TB V100, Hi3559TC V100, Hi3559TD V100, Hi3559TE V100, Hi3559TF V100, Hi3559TG V100, Hi3559TH V100, Hi3559TI V100, Hi3559TJ V100, Hi3559TK V100, Hi3559TL V100, Hi3559TM V100, Hi3559TN V100, Hi3559TO V100, Hi3559TP V100, Hi3559TQ V100, Hi3559TR V100, Hi3559TS V100, Hi3559TT V100, Hi3559TU V100, Hi3559TV V100, Hi3559TW V100, Hi3559TX V100, Hi3559TY V100, Hi3559TZ V100, Hi3559UA V100, Hi3559UB V100, Hi3559UC V100, Hi3559UD V100, Hi3559UE V100, Hi3559UF V100, Hi3559UG V100, Hi3559UH V100, Hi3559UI V100, Hi3559UJ V100, Hi3559UK V100, Hi3559UL V100, Hi3559UM V100, Hi3559UN V100, Hi3559UO V100, Hi3559UP V100, Hi3559UQ V100, Hi3559UR V100, Hi3559US V100, Hi3559UT V100, Hi3559UU V100, Hi3559UV V100, Hi3559UW V100, Hi3559UX V100, Hi3559UY V100, Hi3559UZ V100, Hi3559VA V100, Hi3559VB V100, Hi3559VC V100, Hi3559VD V100, Hi3559VE V100, Hi3559VF V100, Hi3559VG V100, Hi3559VH V100, Hi3559VI V100, Hi3559VJ V100, Hi3559VK V100, Hi3559VL V100, Hi3559VM V100, Hi3559VN V100, Hi3559VO V100, Hi3559VP V100, Hi3559VQ V100, Hi3559VR V100, Hi3559VS V100, Hi3559VT V100, Hi3559VU V100, Hi3559VV V100, Hi3559VW V100, Hi3559VX V100, Hi3559VY V100, Hi3559VZ V100, Hi3559WA V100, Hi3559WB V100, Hi3559WC V100, Hi3559WD V100, Hi3559WE V100, Hi3559WF V100, Hi3559WG V100, Hi3559WH V100, Hi3559WI V100, Hi3559WJ V100, Hi3559WK V100, Hi3559WL V100, Hi3559WM V100, Hi3559WN V100, Hi3559WO V100, Hi3559WP V100, Hi3559WQ V100, Hi3559WR V100, Hi3559WS V100, Hi3559WT V100, Hi3559WU V100, Hi3559WV V100, Hi3559WW V100, Hi3559WX V100, Hi3559WY V100, Hi3559WZ V100, Hi3559XA V100, Hi3559XB V100, Hi3559XC V100, Hi3559XD V100, Hi3559XE V100, Hi3559XF V100, Hi3559XG V100, Hi3559XH V100, Hi3559XI V100, Hi3559XJ V100, Hi3559XK V100, Hi3559XL V100, Hi3559XM V100, Hi3559XN V100, Hi3559XO V100, Hi3559XP V100, Hi3559XQ V100, Hi3559XR V100, Hi3559XS V100, Hi3559XT V100, Hi3559XU V100, Hi3559XV V100, Hi3559XW V100, Hi3559XX V100, Hi3559XY V100, Hi3559XZ V100, Hi3559YA V100, Hi3559YB V100, Hi3559YC V100, Hi3559YD V100, Hi3559YE V100, Hi3559YF V100, Hi3559YG V100, Hi3559YH V100, Hi3559YI V100, Hi3559YJ V100, Hi3559YK V100, Hi3559YL V100, Hi3559YM V100, Hi3559YN V100, Hi3559YO V100, Hi3559YP V100, Hi3559YQ V100, Hi3559YR V100, Hi3559YS V100, Hi3559YT V100, Hi3559YU V100, Hi3559YV V100, Hi3559YW V100, Hi3559YX V100, Hi3559YY V100, Hi3559YZ V100, Hi3559ZA V100, Hi3559ZB V100, Hi3559ZC V100, Hi3559ZD V100, Hi3559ZE V100, Hi3559ZF V100, Hi3559ZG V100, Hi3559ZH V100, Hi3559ZI V100, Hi3559ZJ V100, Hi3559ZK V100, Hi3559ZL V100, Hi3559ZM V100, Hi3559ZN V100, Hi3559ZO V100, Hi3559ZP V100, Hi3559ZQ V100, Hi3559ZR V100, Hi3559ZS V100, Hi3559ZT V100, Hi3559ZU V100, Hi3559ZV V100, Hi3559ZW V100, Hi3559ZX V100, Hi3559ZY V100, Hi3559ZZ V100, Kirin solutions (e.g., Kirin 9000/E, Kirin 1020, Kirin 990, Kirin 980, Kirin 970, Kirin 960, Kirin 950, Kirin 930, Kirin 920, Kirin 910, Kirin 810, Kirin 800, Kirin 710, Kirin 700, Kirin 610, Kirin 600, Kirin 510, Kirin 500, Kirin 410, Kirin 400, Kirin 310, Kirin 300, Kirin 210, Kirin 200, Kirin 110, Kirin 100), Ascend solutions (e.g., Ascend 310 and Ascend 910); Kunpeng solutions (e.g., Kunpeng 920); and Balong solutions (e.g., Balong 5000, Balong 5000L, Balong 5000H, Balong 5000M, Balong 5000N, Balong 5000O, Balong 5000P, Balong 5000Q, Balong 5000R, Balong 5000S, Balong 5000T, Balong 5000U, Balong 5000V, Balong 5000W, Balong 5000X, Balong 5000Y, Balong 5000Z, Balong 720, Balong 710, and Balong 700), systems, products, or devices containing these solutions, and similar systems, products, or devices (collectively, the “’538 Infringing Instrumentalities”).

The analysis set forth below is based only upon information from publicly available resources regarding the ’538 Infringing Instrumentalities, and does not include any non-public information.

Unless otherwise noted, Ocean Semiconductor contends that Huawei directly infringes the ’538 patent in violation of 35 U.S.C. § 271(a)(1) by offering to sell in the United States, and/or importing into the United States, the ’538 Infringing Instrumentalities. The following analysis is based on public information regarding infringement. Unless otherwise noted, Ocean Semiconductor further contends that the evidence below supports a finding of indirect infringement in conjunction with other evidence of liability.

Unless otherwise noted, Ocean Semiconductor believes and contends that each element of each claim asserted herein is literally met by the importation of the ’538 Infringing Instrumentalities. However, to the extent that Huawei attempts to allege that any asserted claim element is not literally met by the ’538 Infringing Instrumentalities, Ocean Semiconductor believes and contends that such elements are met under the doctrine of equivalents. More specifically, in its investigation of the ’538 Infringing Instrumentalities, Ocean Semiconductor did not identify any substantial differences between the elements of the patent claims and the corresponding elements of the ’538 Infringing Instrumentalities, as set forth herein. In each instance, the identified feature of the ’538 Infringing Instrumentalities performs the same function in substantially the same way to achieve substantially the same result as the corresponding claim element.

Ocean Semiconductor notes that the present claim chart and analysis are necessarily preliminary in that Ocean Semiconductor has not received any information from Huawei nor has Huawei disclosed any detailed analysis for its non-infringement position, if any. Further, Ocean Semiconductor reserves the right to supplement and/or amend the positions taken in this preliminary analysis through claim construction or expert discovery. Ocean Semiconductor reserves the right to supplement and/or amend the positions taken in this preliminary analysis through claim construction or expert discovery.

analysis, including with respect to literal infringement and infringement under the doctrine of equivalents, if and when warranted by the Semiconductor, including but not limited to information adduced through information exchanges between the parties, fact discovery, and/or further analysis.

<p>USP 8,676,538</p>	<p>Infringement by the '538 Accused Instrumentalities</p>
<p>1. A method comprising: performing in a computer a fault detection analysis relating to a processing of a workpiece;</p>	<p>To the extent that the preamble of Claim 1 is a limitation, PDF Solutions' Exensio performs in a c to a processing of a workpiece.</p> <p>For example, Exensio includes a software module for Fault Detection and Classification (FDC), as</p> <p>“Exensio –Control is a scalable Fault Detection and Classification (FDC) software solution that co equipment and processes. Exensio-Control allows manufacturers to accurately detect and identify production, in real-time.</p> <ul style="list-style-type: none"> • Wide data acquisition capabilities — Exensio –Control acquires all the equipment and log and from any source (Interface A, databases, SECS/HSMS, automation, files, etc.) • Advanced analysis capabilities — Exensio –Control includes signal transformation and su fault detection and classification functions, plus meta-analysis based on indicators. In addi and historical analysis capabilities to test FDC control strategies before deployment. • Real-time alarms and events management — Exensio –Control centralizes and assesses ev action. Equipment alarms and events are overlaid with trace and univariate SPC charts and alarms. ... ” <p>See Exensio Control, available at http://www.pdf.com/Exensio-Control (last visited Oct. 12, 2020)</p> <p>As a further example, the Exensio platform is “designed to enable real-time rapid diagnosis and ur metrics during both inline and end-of-line wafer processing,” and “enable[s] predictive and proact control, process adjustments, PM scheduling, tool corrective actions, wafer dispatching, and wafer Inc.'s Form 10-K (filed Mar. 10, 2020) at 6, available at http://ir.pdf.com/static-files/fb23407a-df Oct. 12, 2020) (“2020 Form 10-K”).</p>
<p>determining in a said computer a relationship of a parameter relating to said fault detection analysis to a detected fault;</p>	<p>Exensio determines in the computer a relationship of a parameter relating to said fault detection an</p> <p>As an example, the Exensio System is adapted to receive monitor and identify a fault condition co processing tool:</p> <p>“• Exensio Control – This software provides failure detection and classification (or FDC) capabili manufacturing tool sets. These capabilities include proprietary data collection and analysis of tool designed to rapidly identify sources of process variations and manufacturing excursions. When use modules, the accretive data mining and correlation capabilities are designed to enable identificatio process variation that impact end of line product yield, performance and reliability ”</p>

See 2020 Form 10-K at 7.

As a further example, Exensio collects data related to, e.g., equipment parameters, as shown below

Data Quality – End-to-End

IC Design	Fab	Sort	Assembly	Final Test	System			
Material Descriptions In Hierarchy	Meta Data	MES/ WIP Equipment History	Fault Detection and Control (FDC)	Defect & Metrology	Equipment and Non-Lot	Product	Assembly / System	External Data Sources
Technology Family Process Product Source Lot Lot Wafer # Die	Equipment Operator Program Recipe Date/Time Process Flow Stages Steps	Equipment TrackIn/Out Recipe Operator Chamber QueueTime CycleTime Wfr Counts Reticle	Indicators Summaries Trace Charts Model prediction Exensio real time data collection	Parametric Categorical Lot / Wafer Summaries Defect Summary Kill Ratio Defect Images	Equipment SPC Fab chemical delivery Equipment counter data Equipment Event / PM Consumables	sCV testchip DPCV PCM Wafer Sort Bin Map Multi-Bin Final Test Module Data	Die traceability Location of reel/tube Solder paste batch, vendor Equipment parameters Operator logs	Other performance metric databases ...

>100 Fab Tools Types supported, >20 Tester Types supported, >160 Assembly Tool Types supported, > 50 Data types supported

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See S1.2—Exensio Platform, 16th Annual PDF Solutions Users Conference (Oct. 15, 2019) at 11, [http://www.pdf.com/upload/File/Investors/PUG2019/S1.2%20PUG2019_ExensioPlatform_SaidA Presentation"\)](http://www.pdf.com/upload/File/Investors/PUG2019/S1.2%20PUG2019_ExensioPlatform_SaidA Presentation) (last visited Apr. 30, 2020) (annotated).

As a further example, Exensio uses algorithms and a Single Machine Learning Pipeline to model p classification, as shown below:

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