

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034858.D
 Acq On : 10 Mar 2020 3:43
 Operator : SY/AP
 Sample : L1161-13 0.4 LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/11/2020 3:26:20 PM

Quant Time: Mar 11 05:26:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	866823	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1974911	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1946424	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1574912	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	70087	0.590 ppbv	98
3) Chlorodifluoromethane	2.95	51	43492	0.449 ppbv	99
4) Chloromethane	3.10	50	24516	0.448 ppbv	92
5) Vinyl Chloride	3.22	62	21331	0.405 ppbv	95
6) Bromomethane	3.44	94	14417	0.471 ppbv	81
7) Chloroethane	3.52	64	9302m	0.490 ppbv	
8) Dichlorotetrafluoroethane	3.15	85	58568	0.475 ppbv	91
9) Propene	2.97	41	19230	0.416 ppbv	100
10) Heptane	8.12	43	41396	0.364 ppbv	94
11) Trichlorofluoromethane	3.92	101	56551	0.448 ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.47	101	40173	0.455 ppbv	99
13) Ethanol	3.58	45	9379m	0.667 ppbv	
14) Bromoethene	3.71	108	15727	0.412 ppbv	91
15) Acetone	3.84	43	50879	0.453 ppbv	93
16) 1,3-Butadiene	3.29	39	20365	0.401 ppbv	94
17) tert-Butyl alcohol	4.29	59	50318	0.465 ppbv	97
18) 1,1-Dichloroethene	4.26	96	16672	0.426 ppbv	92
19) Isopropyl Alcohol	3.96	45	32612	0.460 ppbv #	41
20) Methylene Chloride	4.32	84	17961m	0.506 ppbv	
21) Allyl Chloride	4.38	41	26801	0.371 ppbv	91
22) trans-1,2-Dichloroethene	4.87	96	16809m	0.423 ppbv	
23) Vinyl Acetate	5.06	43	63163	0.381 ppbv #	95
24) 1,1-Dichloroethane	4.99	63	47764	0.429 ppbv #	96
25) Ethyl Acetate	5.67	43	82896	0.414 ppbv	96
26) Hexane	5.67	57	35600	0.413 ppbv	94
27) Carbon Disulfide	4.53	76	32015	0.327 ppbv #	63
28) Methyl tert-Butyl Ether	5.03	73	53739	0.375 ppbv	97
29) Chloroform	5.74	83	57907	0.440 ppbv	99
30) Cyclohexane	7.13	84	26519m	0.369 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	35553	0.403 ppbv	90
32) 1,1,1-Trichloroethane	6.50	97	51438	0.401 ppbv	95
34) 2-Butanone	5.24	43	55778	0.425 ppbv	97
35) Carbon Tetrachloride	7.01	117	49327m	0.402 ppbv	
36) Benzene	6.89	78	69075	0.392 ppbv #	92
37) 1,2-Dichloroethane	6.29	62	40467m	0.408 ppbv	
38) Trichloroethene	7.84	130	25132	0.376 ppbv	91
39) 1,2-Dichloropropane	7.61	63	29172m	0.418 ppbv	
40) 1,4-Dioxane	7.87	88	11921m	0.453 ppbv	
41) Tetrahydrofuran	6.07	42	27239m	0.384 ppbv	
42) Bromodichloromethane	7.80	83	51718m	0.382 ppbv	
43) Methyl Methacrylate	8.02	69	26023	0.351 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	110422	0.371	ppbv	96
45) t-1,3-Dichloropropene	9.29	75	26311	0.302	ppbv	91
46) cis-1,3-Dichloropropene	8.71	75	31972	0.309	ppbv	89
47) 1,1,2-Trichloroethane	9.48	97	29170m	0.408	ppbv	
48) Dibromochloromethane	10.31	129	37432m	0.323	ppbv	
49) Bromoform	13.07	173	28856m	0.279	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	68612	0.363	ppbv	100
51) 2-Hexanone	10.17	43	52576	0.342	ppbv #	96
52) Tetrachloroethene	11.24	164	26382m	0.379	ppbv	
53) Toluene	9.82	91	70366m	0.346	ppbv	
54) 1,2-Dibromoethane	10.63	107	41008m	0.381	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	35479	0.406	ppbv #	1
57) Chlorobenzene	12.17	112	69207m	0.454	ppbv	
58) Ethyl Benzene	12.73	91	96603m	0.366	ppbv	
59) m/p-Xylene	13.01	91	174805m	0.792	ppbv	
60) o-Xylene	13.72	91	84494	0.392	ppbv	100
61) Styrene	13.55	104	49429m	0.327	ppbv	
62) Isopropylbenzene	14.69	105	132898	0.408	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.71	83	66008m	0.451	ppbv	
64) n-propylbenzene	15.59	120	31664m	0.373	ppbv	
65) tert-Butylbenzene	16.77	119	102766m	0.361	ppbv	
66) Benzyl Chloride	17.02	91	29482m	0.248	ppbv	
67) sec-Butylbenzene	17.33	105	146970	0.372	ppbv	97
69) p-Isopropyltoluene	17.69	119	118212m	0.357	ppbv	
70) n-Butylbenzene	18.59	91	116691	0.345	ppbv	99
71) 2-Chlorotoluene	15.49	91	93732m	0.380	ppbv	
72) 4-Ethyltoluene	15.87	105	93660m	0.368	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	84283m	0.354	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	87830	0.358	ppbv #	86
75) 1,3-Dichlorobenzene	17.04	146	64439	0.435	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	59814m	0.405	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	57433m	0.400	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	44297m	0.369	ppbv	
79) Naphthalene	22.25	128	39196m	0.205	ppbv	
81) 1,2,4-Trichlorobenzene	21.99	180	35605m	0.293	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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