

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081220\
 Data File : VL035380.D
 Acq On : 12 Aug 2020 11:08
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/17/2020 5:43:42 PM

Quant Time: Aug 12 15:30:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081220AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 12 15:30:26 2020
 QLast Update : Wed Aug 12 15:19:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1330343	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3112236	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2998342	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2409070	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	107108	0.605 ppbv	95
3) Chlorodifluoromethane	2.98	51	88845	0.585 ppbv	99
4) Chloromethane	3.13	50	50618	0.589 ppbv	99
5) Vinyl Chloride	3.25	62	46598	0.527 ppbv	97
6) Bromomethane	3.47	94	25990	0.480 ppbv	95
7) Chloroethane	3.56	64	16626	0.506 ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	109871	0.525 ppbv	96
9) Propene	3.01	41	49097	0.907 ppbv	96
10) Heptane	8.13	43	118750	0.859 ppbv	99
11) Trichlorofluoromethane	3.95	101	111115	0.485 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	71894	0.439 ppbv	100
13) Ethanol	3.61	45	21530	1.154 ppbv	84
14) Bromoethene	3.74	108	33349	0.508 ppbv	94
15) Acetone	3.86	43	112856	0.597 ppbv	93
16) 1,3-Butadiene	3.32	39	45442m	0.625 ppbv	
17) tert-Butyl alcohol	4.31	59	114859	0.662 ppbv	97
18) 1,1-Dichloroethene	4.29	96	34513	0.490 ppbv	88
19) Isopropyl Alcohol	3.98	45	79455	0.663 ppbv #	46
20) Methylene Chloride	4.34	84	41920	0.544 ppbv	96
21) Allyl Chloride	4.41	41	58040	0.536 ppbv	88
22) trans-1,2-Dichloroethene	4.89	96	33220	0.487 ppbv	89
23) Vinyl Acetate	5.08	43	185049	1.022 ppbv #	94
24) 1,1-Dichloroethane	5.02	63	97926	0.575 ppbv	98
25) Ethyl Acetate	5.68	43	199952	0.697 ppbv	97
26) Hexane	5.69	57	89094	0.716 ppbv	98
27) Carbon Disulfide	4.55	76	85442	0.491 ppbv #	61
28) Methyl tert-Butyl Ether	5.05	73	141203	0.780 ppbv	99
29) Chloroform	5.75	83	121164	0.564 ppbv	95
30) Cyclohexane	7.13	84	72105	0.764 ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	81728	0.738 ppbv #	93
32) 1,1,1-Trichloroethane	6.52	97	120438	0.534 ppbv	98
34) 2-Butanone	5.26	43	128323	0.837 ppbv	98
35) Carbon Tetrachloride	7.02	117	115234	0.538 ppbv	94
36) Benzene	6.90	78	174442	0.830 ppbv	98
37) 1,2-Dichloroethane	6.31	62	93161	0.635 ppbv	98
38) Trichloroethene	7.84	130	62922m	0.649 ppbv	
39) 1,2-Dichloropropane	7.62	63	69017	0.811 ppbv	87
40) 1,4-Dioxane	7.87	88	32308m	0.887 ppbv	
41) Tetrahydrofuran	6.08	42	80818m	1.075 ppbv	
42) Bromodichloromethane	7.80	83	129440	0.657 ppbv	98
43) Methyl Methacrylate	8.03	69	76493	0.865 ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	311712	0.835	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	85919	0.937	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	103390	0.933	ppbv	92
47) 1,1,2-Trichloroethane	9.48	97	67914m	0.664	ppbv	
48) Dibromochloromethane	10.31	129	101185m	0.604	ppbv	
49) Bromoform	13.06	173	82905	0.543	ppbv	96
50) 4-Methyl-2-Pentanone	8.77	43	204571	0.874	ppbv	99
51) 2-Hexanone	10.16	43	173532	0.946	ppbv #	100
52) Tetrachloroethene	11.24	164	57118	0.686	ppbv #	83
53) Toluene	9.82	91	210285	0.920	ppbv	97
54) 1,2-Dibromoethane	10.63	107	110278m	0.751	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	84217m	0.595	ppbv	
57) Chlorobenzene	12.16	112	159028	0.704	ppbv	91
58) Ethyl Benzene	12.73	91	285438	0.915	ppbv	98
59) m/p-Xylene	12.99	91	491964m	1.693	ppbv	
60) o-Xylene	13.71	91	227682	0.790	ppbv	97
61) Styrene	13.55	104	167191	0.950	ppbv	99
62) Isopropylbenzene	14.68	105	356849	0.822	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.70	83	161584	0.657	ppbv	99
64) n-propylbenzene	15.58	120	85521	0.733	ppbv	70
65) tert-Butylbenzene	16.77	119	322480	0.811	ppbv	96
66) Benzyl Chloride	17.01	91	126546	0.804	ppbv	96
67) sec-Butylbenzene	17.31	105	456488	0.812	ppbv	96
69) p-Isopropyltoluene	17.67	119	379292	0.827	ppbv	98
70) n-Butylbenzene	18.57	91	417990	0.853	ppbv	97
71) 2-Chlorotoluene	15.47	91	282849	0.890	ppbv	97
72) 4-Ethyltoluene	15.87	105	277537	0.844	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	272548	0.864	ppbv	92
74) 1,2,4-Trimethylbenzene	16.78	105	285026	0.791	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	155770	0.661	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	162217m	0.743	ppbv	
77) 1,2-Dichlorobenzene	17.84	146	154695	0.711	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	121403	0.656	ppbv	98
79) Naphthalene	22.23	128	390090	1.407	ppbv	98
80) Naphthalene, 2-methyl-	24.99	142	213703	3.388	ppbv	97
81) 1,2,4-Trichlorobenzene	21.96	180	181538m	1.039	ppbv	

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

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