

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061421\
 Data File : VL037147.D
 Acq On : 14 Jun 2021 13:38
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 6/15/2021 5:17:38 PM

Quant Time: Jun 14 16:35:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1601866	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4887264	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4516936	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3282798	9.67	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	291286	1.072 ppbv	94
3) Chlorodifluoromethane	2.99	51	318297	1.085 ppbv	97
4) Chloromethane	3.15	50	106769	1.069 ppbv	98
5) Vinyl Chloride	3.26	62	106592	0.977 ppbv	99
6) Bromomethane	3.48	94	62601	1.088 ppbv	92
7) Chloroethane	3.57	64	38959m	1.099 ppbv	
8) Dichlorotetrafluoroethane	3.19	85	292251	1.145 ppbv	94
9) Propene	3.01	41	104038	0.990 ppbv	99
10) Heptane	8.14	43	239099	0.913 ppbv	98
11) Trichlorofluoromethane	3.96	101	295205	1.174 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	210486	1.175 ppbv	97
13) Ethanol	3.63	45	15433m	1.101 ppbv	
14) Bromoethene	3.75	108	86924m	1.101 ppbv	
15) Acetone	3.87	43	219244m	1.336 ppbv	
16) 1,3-Butadiene	3.33	39	104469m	1.025 ppbv	
17) tert-Butyl alcohol	4.32	59	147232	0.980 ppbv #	94
18) 1,1-Dichloroethene	4.30	96	88720	1.071 ppbv	96
19) Isopropyl Alcohol	4.00	45	103305m	1.171 ppbv	
20) Methylene Chloride	4.35	84	89252m	1.015 ppbv	
21) Allyl Chloride	4.42	41	121135	0.979 ppbv	94
22) trans-1,2-Dichloroethene	4.90	96	89978m	1.133 ppbv	
23) Vinyl Acetate	5.09	43	239886	0.921 ppbv	98
24) 1,1-Dichloroethane	5.02	63	218708m	1.167 ppbv	
25) Ethyl Acetate	5.70	43	385407m	0.978 ppbv	
26) Hexane	5.70	57	197206	0.979 ppbv	96
27) Carbon Disulfide	4.56	76	173539	0.855 ppbv #	97
28) Methyl tert-Butyl Ether	5.05	73	244301m	1.012 ppbv	
29) Chloroform	5.76	83	313569	1.102 ppbv	95
30) Cyclohexane	7.14	84	162100	0.947 ppbv	90
31) cis-1,2-Dichloroethene	5.56	61	184996m	1.024 ppbv	
32) 1,1,1-Trichloroethane	6.52	97	301136	0.986 ppbv	97
34) 2-Butanone	5.27	43	172131	0.967 ppbv #	87
35) Carbon Tetrachloride	7.03	117	313944	0.967 ppbv	98
36) Benzene	6.90	78	385634	0.916 ppbv	98
37) 1,2-Dichloroethane	6.31	62	223466m	1.071 ppbv	
38) Trichloroethene	7.84	130	176157m	0.978 ppbv	
39) 1,2-Dichloropropane	7.62	63	143674	0.886 ppbv #	86
40) 1,4-Dioxane	7.88	88	41873m	1.094 ppbv	
41) Tetrahydrofuran	6.08	42	85872m	0.847 ppbv	
42) Bromodichloromethane	7.80	83	301278	0.954 ppbv	94
43) Methyl Methacrylate	8.03	69	121470m	0.837 ppbv	

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44) 2,2,4-Trimethylpentane	7.88	57	660309	0.914	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	97671m	0.881	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	139811m	0.938	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	163108	0.961	ppbv	93
48) Dibromochloromethane	10.32	129	243956	0.888	ppbv	98
49) Bromoform	13.05	173	181623m	0.800	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	266725m	0.908	ppbv	
51) 2-Hexanone	10.18	43	121602m	0.783	ppbv	
52) Tetrachloroethene	11.24	164	167115	0.998	ppbv	96
53) Toluene	9.82	91	451761	0.902	ppbv	98
54) 1,2-Dibromoethane	10.62	107	235104m	0.974	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	196200	1.032	ppbv #	1
57) Chlorobenzene	12.16	112	362577	1.035	ppbv	92
58) Ethyl Benzene	12.72	91	626878m	0.983	ppbv	
59) m/p-Xylene	13.01	91	1067567m	2.026	ppbv	
60) o-Xylene	13.70	91	505948	1.007	ppbv	97
61) Styrene	13.54	104	250919	0.886	ppbv	97
62) Isopropylbenzene	14.68	105	741870	1.027	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	338401	0.902	ppbv	97
64) n-propylbenzene	15.57	120	178689	0.959	ppbv	77
65) tert-Butylbenzene	16.75	119	674401	1.035	ppbv	97
66) Benzyl Chloride	17.00	91	22436m	0.620	ppbv	
67) sec-Butylbenzene	17.31	105	870035	0.979	ppbv	100
69) p-Isopropyltoluene	17.67	119	707479	0.925	ppbv	98
70) n-Butylbenzene	18.56	91	631076	0.869	ppbv	99
71) 2-Chlorotoluene	15.47	91	513488	0.984	ppbv	100
72) 4-Ethyltoluene	15.86	105	598161m	1.003	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	561694m	1.003	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	571383	0.987	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	343490m	0.971	ppbv	
76) 1,4-Dichlorobenzene	17.15	146	351118m	0.982	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	337237m	0.952	ppbv	
78) Hexachloro-1,3-Butadiene	23.39	225	253597m	0.890	ppbv	
79) Naphthalene	22.23	128	261837m	0.576	ppbv	
80) Naphthalene, 2-methyl-	25.01	142	34904m	0.353	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	188762m	0.681	ppbv	

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

