

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035801.D
 Acq On : 3 Nov 2020 11:49
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:13:13 PM

Quant Time: Nov 04 02:39:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 04
 QLast Update : Tue Nov 03 11:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1340547	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	5516536	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	5230015	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3665123	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	285208	1.297 ppbv	98
3) Chlorodifluoromethane	2.98	51	173648	1.204 ppbv	98
4) Chloromethane	3.14	50	83279	1.075 ppbv	95
5) Vinyl Chloride	3.25	62	103635	1.131 ppbv	96
6) Bromomethane	3.47	94	85135	1.099 ppbv	96
7) Chloroethane	3.56	64	38752	1.153 ppbv	92
8) Dichlorotetrafluoroethane	3.18	85	319782	1.199 ppbv	99
9) Propene	3.00	41	60530	1.156 ppbv	94
10) Heptane	8.12	43	172565	1.182 ppbv	98
11) Trichlorofluoromethane	3.95	101	340663	1.085 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	250303	1.070 ppbv	99
13) Ethanol	3.61	45	14097m	1.092 ppbv	
14) Bromoethene	3.73	108	115566	1.173 ppbv	99
15) Acetone	3.85	43	158047	1.096 ppbv	# 87
16) 1,3-Butadiene	3.32	39	62755	1.189 ppbv	93
17) tert-Butyl alcohol	4.30	59	213135m	1.356 ppbv	
18) 1,1-Dichloroethene	4.29	96	115019	1.123 ppbv	98
19) Isopropyl Alcohol	3.97	45	100784	1.284 ppbv	100
20) Methylene Chloride	4.34	84	109638	1.035 ppbv	97
21) Allyl Chloride	4.41	41	80251	1.148 ppbv	91
22) trans-1,2-Dichloroethene	4.88	96	109871	1.015 ppbv	96
23) Vinyl Acetate	5.07	43	208972	1.183 ppbv	97
24) 1,1-Dichloroethane	5.01	63	200395	1.041 ppbv	98
25) Ethyl Acetate	5.68	43	305702	1.178 ppbv	98
26) Hexane	5.69	57	163909	1.152 ppbv	98
27) Carbon Disulfide	4.55	76	232932	1.099 ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	296429	1.315 ppbv	100
29) Chloroform	5.75	83	323880	1.121 ppbv	94
30) Cyclohexane	7.13	84	179202	1.277 ppbv	92
31) cis-1,2-Dichloroethene	5.55	61	165245	1.204 ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	316789	1.244 ppbv	99
34) 2-Butanone	5.25	43	189564	1.039 ppbv	95
35) Carbon Tetrachloride	7.01	117	305896	1.064 ppbv	98
36) Benzene	6.89	78	450995	1.255 ppbv	95
37) 1,2-Dichloroethane	6.30	62	194612	1.039 ppbv	98
38) Trichloroethene	7.83	130	204855	1.142 ppbv	97
39) 1,2-Dichloropropane	7.61	63	146817m	1.127 ppbv	
40) 1,4-Dioxane	7.85	88	71422	1.199 ppbv	95
41) Tetrahydrofuran	6.06	42	104773	1.140 ppbv	95
42) Bromodichloromethane	7.79	83	320694	1.063 ppbv	96
43) Methyl Methacrylate	8.01	69	160097	1.120 ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	603568	1.170	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	163767	1.135	ppbv	91
46) cis-1,3-Dichloropropene	8.70	75	211429	1.188	ppbv	94
47) 1,1,2-Trichloroethane	9.47	97	201957	1.082	ppbv	96
48) Dibromochloromethane	10.30	129	296600	1.044	ppbv	99
49) Bromoform	13.04	173	248693	1.032	ppbv	98
50) 4-Methyl-2-Pentanone	8.75	43	288112	1.081	ppbv	98
51) 2-Hexanone	10.15	43	231328	1.077	ppbv #	100
52) Tetrachloroethene	11.22	164	199421	1.154	ppbv	95
53) Toluene	9.81	91	541661	1.278	ppbv	97
54) 1,2-Dibromoethane	10.61	107	309970	1.109	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.13	131	251194	1.145	ppbv #	1
57) Chlorobenzene	12.15	112	467297	1.183	ppbv	95
58) Ethyl Benzene	12.72	91	694597	1.323	ppbv	97
59) m/p-Xylene	13.00	91	1192852m	2.602	ppbv	
60) o-Xylene	13.70	91	582413	1.256	ppbv	100
61) Styrene	13.53	104	393221	1.226	ppbv	96
62) Isopropylbenzene	14.68	105	930536	1.294	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.68	83	419782	1.104	ppbv	99
64) n-propylbenzene	15.57	120	257268	1.222	ppbv	84
65) tert-Butylbenzene	16.75	119	848214	1.297	ppbv	93
66) Benzyl Chloride	17.00	91	222779	1.124	ppbv	98
67) sec-Butylbenzene	17.30	105	1150747	1.274	ppbv	95
69) p-Isopropyltoluene	17.66	119	922878	1.256	ppbv	95
70) n-Butylbenzene	18.56	91	883296	1.167	ppbv	96
71) 2-Chlorotoluene	15.46	91	650821	1.240	ppbv	99
72) 4-Ethyltoluene	15.84	105	680601	1.239	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	630456	1.214	ppbv	94
74) 1,2,4-Trimethylbenzene	16.77	105	695009	1.188	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	452952	1.134	ppbv	98
76) 1,4-Dichlorobenzene	17.15	146	409132	1.071	ppbv	97
77) 1,2-Dichlorobenzene	17.82	146	428394	1.135	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	202792	0.974	ppbv	98
79) Naphthalene	22.22	128	430195	0.771	ppbv	97
80) Naphthalene, 2-methyl-	24.99	142	47155	0.358	ppbv	98
81) 1,2,4-Trichlorobenzene	21.95	180	256883	0.888	ppbv	98

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

