

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035800.D
 Acq On : 3 Nov 2020 11:11
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:13:09 PM

Quant Time: Nov 03 14:10:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 03 14:10:29 2020
 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	1327679	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5258122	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	5096797	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3495807	9.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	475002	2.180	ppbv	99
3) Chlorodifluoromethane	2.98	51	334978	2.345	ppbv	100
4) Chloromethane	3.14	50	160716	2.095	ppbv	96
5) Vinyl Chloride	3.25	62	203843	2.246	ppbv	96
6) Bromomethane	3.47	94	165592	2.158	ppbv	92
7) Chloroethane	3.56	64	73123	2.197	ppbv	92
8) Dichlorotetrafluoroethane	3.18	85	602125	2.279	ppbv	98
9) Propene	3.01	41	123253	2.377	ppbv	95
10) Heptane	8.12	43	339681	2.349	ppbv	99
11) Trichlorofluoromethane	3.94	101	669187	2.153	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	485712	2.096	ppbv	100
13) Ethanol	3.60	45	31352	2.451	ppbv	98
14) Bromoethene	3.74	108	217044	2.224	ppbv	98
15) Acetone	3.85	43	305849	2.141	ppbv	89
16) 1,3-Butadiene	3.32	39	130965	2.506	ppbv	100
17) tert-Butyl alcohol	4.29	59	326286	2.097	ppbv	99
18) 1,1-Dichloroethene	4.29	96	220424	2.173	ppbv	97
19) Isopropyl Alcohol	3.96	45	159284	2.050	ppbv	# 97
20) Methylene Chloride	4.34	84	201237	1.918	ppbv	98
21) Allyl Chloride	4.41	41	160479	2.317	ppbv	97
22) trans-1,2-Dichloroethene	4.88	96	213883	1.996	ppbv	98
23) Vinyl Acetate	5.07	43	389635	2.227	ppbv	98
24) 1,1-Dichloroethane	5.01	63	397254	2.084	ppbv	97
25) Ethyl Acetate	5.68	43	607521	2.363	ppbv	100
26) Hexane	5.69	57	325265	2.309	ppbv	99
27) Carbon Disulfide	4.55	76	476048	2.267	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	571613	2.560	ppbv	98
29) Chloroform	5.75	83	634258	2.217	ppbv	96
30) Cyclohexane	7.13	84	338509	2.436	ppbv	88
31) cis-1,2-Dichloroethene	5.55	61	330552	2.431	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	614943	2.439	ppbv	99
34) 2-Butanone	5.24	43	376439	2.164	ppbv	97
35) Carbon Tetrachloride	7.01	117	598480	2.183	ppbv	98
36) Benzene	6.89	78	839384	2.450	ppbv	96
37) 1,2-Dichloroethane	6.30	62	381303	2.135	ppbv	100
38) Trichloroethene	7.83	130	378865	2.217	ppbv	98
39) 1,2-Dichloropropane	7.61	63	285200	2.297	ppbv	96
40) 1,4-Dioxane	7.84	88	118088	2.079	ppbv	66
41) Tetrahydrofuran	6.05	42	211990	2.419	ppbv	98
42) Bromodichloromethane	7.79	83	643030	2.235	ppbv	99
43) Methyl Methacrylate	8.01	69	316422	2.322	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	1158107	2.356	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	326145	2.371	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	421523	2.486	ppbv	95
47) 1,1,2-Trichloroethane	9.48	97	383520	2.156	ppbv	97
48) Dibromochloromethane	10.31	129	589911	2.179	ppbv	99
49) Bromoform	13.05	173	501514	2.183	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	598238m	2.355	ppbv	
51) 2-Hexanone	10.14	43	462895	2.262	ppbv #	99
52) Tetrachloroethene	11.22	164	366379	2.224	ppbv	99
53) Toluene	9.81	91	1010250	2.501	ppbv	98
54) 1,2-Dibromoethane	10.61	107	585002	2.196	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.13	131	480412	2.248	ppbv #	1
57) Chlorobenzene	12.15	112	849713	2.207	ppbv	97
58) Ethyl Benzene	12.72	91	1321995	2.584	ppbv	95
59) m/p-Xylene	13.00	91	2262097m	5.064	ppbv	
60) o-Xylene	13.70	91	1099386	2.433	ppbv	99
61) Styrene	13.54	104	775304	2.481	ppbv	98
62) Isopropylbenzene	14.68	105	1730839	2.469	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.68	83	804543	2.171	ppbv	99
64) n-propylbenzene	15.57	120	482086	2.350	ppbv	83
65) tert-Butylbenzene	16.75	119	1596535	2.505	ppbv	95
66) Benzyl Chloride	17.00	91	464113	2.404	ppbv	100
67) sec-Butylbenzene	17.30	105	2192861	2.492	ppbv	95
69) p-Isopropyltoluene	17.66	119	1773233	2.477	ppbv	95
70) n-Butylbenzene	18.56	91	1742155	2.363	ppbv	96
71) 2-Chlorotoluene	15.46	91	1253821	2.452	ppbv	98
72) 4-Ethyltoluene	15.84	105	1330292	2.485	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	1222662	2.417	ppbv	95
74) 1,2,4-Trimethylbenzene	16.77	105	1340088	2.350	ppbv	95
75) 1,3-Dichlorobenzene	17.00	146	839166	2.155	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	798631	2.146	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	815130	2.217	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	399282	1.968	ppbv	99
79) Naphthalene	22.22	128	883507	1.624	ppbv	98
80) Naphthalene, 2-methyl-	24.99	142	132030	1.029	ppbv	99
81) 1,2,4-Trichlorobenzene	21.94	180	508049	1.802	ppbv	100

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

