

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034774.D
 Acq On : 3 Mar 2020 21:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/4/2020 4:49:30 PM

Quant Time: Mar 04 08:03:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1167807	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2476420	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2575237m	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	2069607	9.80	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1342178	7.286 ppbv	93
3) Chlorodifluoromethane	2.97	51	1184350	9.397 ppbv	98
4) Chloromethane	3.12	50	700352	9.927 ppbv	97
5) Vinyl Chloride	3.24	62	639541	9.241 ppbv	93
6) Bromomethane	3.46	94	374054	9.225 ppbv	97
7) Chloroethane	3.54	64	238298	9.275 ppbv	93
8) Dichlorotetrafluoroethane	3.17	85	1417614	8.700 ppbv	98
9) Propene	2.99	41	532282	10.104 ppbv	100
10) Heptane	8.17	43	1384641	10.211 ppbv	98
11) Trichlorofluoromethane	3.94	101	1433564	8.884 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	995250	8.750 ppbv	98
13) Ethanol	3.60	45	160020	9.615 ppbv	95
14) Bromoethene	3.73	108	445250	9.382 ppbv	99
15) Acetone	3.84	43	1259248	9.463 ppbv	100
16) 1,3-Butadiene	3.31	39	619320	10.054 ppbv	94
17) tert-Butyl alcohol	4.29	59	1164755	11.422 ppbv	99
18) 1,1-Dichloroethene	4.29	96	458618	8.981 ppbv	94
19) Isopropyl Alcohol	3.96	45	883059	11.141 ppbv	99
20) Methylene Chloride	4.34	84	398210	8.046 ppbv	92
21) Allyl Chloride	4.41	41	824813	9.368 ppbv	97
22) trans-1,2-Dichloroethene	4.90	96	459891	9.237 ppbv	100
23) Vinyl Acetate	5.09	43	1968802	10.883 ppbv	99
24) 1,1-Dichloroethane	5.02	63	1317355	9.118 ppbv	99
25) Ethyl Acetate	5.70	43	2296294	9.748 ppbv	99
26) Hexane	5.71	57	1016302	9.361 ppbv	97
27) Carbon Disulfide	4.55	76	1165519	9.457 ppbv	97
28) Methyl tert-Butyl Ether	5.04	73	1525093	9.833 ppbv	98
29) Chloroform	5.77	83	1563507	9.039 ppbv	95
30) Cyclohexane	7.17	84	847407	10.071 ppbv	98
31) cis-1,2-Dichloroethene	5.57	61	1074280	10.055 ppbv	94
32) 1,1,1-Trichloroethane	6.54	97	1501802	9.297 ppbv	99
34) 2-Butanone	5.26	43	1564167	10.035 ppbv	99
35) Carbon Tetrachloride	7.06	117	1532734	9.242 ppbv	98
36) Benzene	6.93	78	2053598	9.601 ppbv	96
37) 1,2-Dichloroethane	6.34	62	1263977	9.375 ppbv	100
38) Trichloroethene	7.88	130	764027	9.267 ppbv	96
39) 1,2-Dichloropropane	7.66	63	814696	9.574 ppbv	96
40) 1,4-Dioxane	7.87	88	304725	10.530 ppbv	# 1
41) Tetrahydrofuran	6.07	42	884929	10.756 ppbv	97
42) Bromodichloromethane	7.84	83	1669065	9.456 ppbv	98
43) Methyl Methacrylate	8.06	69	946424	10.520 ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3536063	9.459	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	1090356	11.107	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1264505	10.740	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	824926	9.449	ppbv	97
48) Dibromochloromethane	10.36	129	1342262	9.888	ppbv	99
49) Bromoform	13.11	173	1162636	9.878	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2261170	10.242	ppbv	99
51) 2-Hexanone	10.19	43	1858113	10.695	ppbv #	99
52) Tetrachloroethene	11.29	164	707059	9.019	ppbv	98
53) Toluene	9.86	91	2299748	10.109	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1243725	9.550	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.19	131	983065	8.963	ppbv #	58
57) Chlorobenzene	12.21	112	1679628	8.824	ppbv	96
58) Ethyl Benzene	12.78	91	3037669	9.750	ppbv	100
59) m/p-Xylene	13.06	91	5029752m	18.509	ppbv	
60) o-Xylene	13.76	91	2454750	9.103	ppbv	100
61) Styrene	13.60	104	1761726	10.171	ppbv	98
62) Isopropylbenzene	14.74	105	3593104	9.134	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1722268	8.195	ppbv	99
64) n-propylbenzene	15.64	120	917392	9.046	ppbv	91
65) tert-Butylbenzene	16.82	119	3091004	9.100	ppbv	100
66) Benzyl Chloride	17.07	91	1380770	10.898	ppbv	99
67) sec-Butylbenzene	17.37	105	4420114	9.043	ppbv	99
69) p-Isopropyltoluene	17.73	119	3671354	9.125	ppbv	100
70) n-Butylbenzene	18.63	91	3992924	9.114	ppbv	100
71) 2-Chlorotoluene	15.53	91	2804016	9.204	ppbv	100
72) 4-Ethyltoluene	15.91	105	2889756	9.628	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2729431	9.453	ppbv	99
74) 1,2,4-Trimethylbenzene	16.84	105	2814100	8.825	ppbv	92
75) 1,3-Dichlorobenzene	17.08	146	1608809	8.741	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1622961	8.813	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1596708	8.973	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1431686	9.240	ppbv	99
79) Naphthalene	22.30	128	2913229	10.381	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	1296777	14.982	ppbv	96
81) 1,2,4-Trichlorobenzene	22.03	180	1656158m	9.888	ppbv	

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

