

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022820\
 Data File : VL034756.D
 Acq On : 29 Feb 2020 3:44
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/2/2020 1:02:23 PM

Quant Time: Mar 02 08:47:18 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	5.67	49	938600	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2006794	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2217590m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1719506	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1790839	12.095	ppbv	93
3) Chlorodifluoromethane	2.95	51	1154704	11.400	ppbv	99
4) Chloromethane	3.11	50	653746	11.530	ppbv	97
5) Vinyl Chloride	3.23	62	623838	11.215	ppbv	92
6) Bromomethane	3.45	94	371621	11.403	ppbv	99
7) Chloroethane	3.53	64	228651	11.072	ppbv	95
8) Dichlorotetrafluoroethane	3.16	85	1403196	10.714	ppbv	99
9) Propene	2.98	41	515042	12.164	ppbv	98
10) Heptane	8.14	43	1325013	12.158	ppbv	98
11) Trichlorofluoromethane	3.93	101	1463540	11.285	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1017457	11.130	ppbv	98
13) Ethanol	3.58	45	110328	8.248	ppbv	99
14) Bromoethene	3.72	108	451088	11.827	ppbv	98
15) Acetone	3.83	43	1226165	11.464	ppbv	99
16) 1,3-Butadiene	3.30	39	582401	11.763	ppbv	98
17) tert-Butyl alcohol	4.28	59	866771	10.576	ppbv	99
18) 1,1-Dichloroethene	4.27	96	462926	11.280	ppbv	97
19) Isopropyl Alcohol	3.95	45	619030	9.717	ppbv	100
20) Methylene Chloride	4.33	84	413414	10.393	ppbv	97
21) Allyl Chloride	4.40	41	848312	11.988	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	468214	11.700	ppbv	99
23) Vinyl Acetate	5.07	43	1910002	13.136	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1301850	11.211	ppbv	99
25) Ethyl Acetate	5.68	43	2237176	11.816	ppbv	100
26) Hexane	5.69	57	990208	11.347	ppbv	97
27) Carbon Disulfide	4.54	76	1216669	12.283	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1570356	12.597	ppbv	100
29) Chloroform	5.76	83	1535492	11.044	ppbv	96
30) Cyclohexane	7.14	84	824844	12.197	ppbv	98
31) cis-1,2-Dichloroethene	5.55	61	1037172	12.078	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1507629	11.612	ppbv	100
34) 2-Butanone	5.24	43	1493575	11.824	ppbv	99
35) Carbon Tetrachloride	7.03	117	1522022	11.325	ppbv	98
36) Benzene	6.90	78	1977086	11.407	ppbv	96
37) 1,2-Dichloroethane	6.31	62	1248057	11.423	ppbv	100
38) Trichloroethene	7.85	130	724552	10.845	ppbv	97
39) 1,2-Dichloropropane	7.64	63	796291	11.548	ppbv	98
40) 1,4-Dioxane	7.85	88	250915	10.700	ppbv	# 1
41) Tetrahydrofuran	6.05	42	842082	12.630	ppbv	100
42) Bromodichloromethane	7.81	83	1651078	11.543	ppbv	100
43) Methyl Methacrylate	8.03	69	902354	12.378	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	3416149	11.277	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1071003	13.463	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1251304	13.115	ppbv	99
47) 1,1,2-Trichloroethane	9.50	97	792188	11.198	ppbv	96
48) Dibromochloromethane	10.34	129	1319496	11.995	ppbv	100
49) Bromoform	13.09	173	1127548	11.822	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2181976	12.196	ppbv	100
51) 2-Hexanone	10.16	43	1806180	12.829	ppbv #	98
52) Tetrachloroethene	11.26	164	682501	10.743	ppbv	97
53) Toluene	9.83	91	2248667	12.198	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1209387	11.459	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	975235	10.326	ppbv	99
57) Chlorobenzene	12.19	112	1639605	10.003	ppbv	99
58) Ethyl Benzene	12.74	91	2986546	11.131	ppbv	99
59) m/p-Xylene	13.03	91	4890450m	20.899	ppbv	
60) o-Xylene	13.73	91	2399651	10.334	ppbv	99
61) Styrene	13.57	104	1721228	11.539	ppbv	99
62) Isopropylbenzene	14.71	105	3502865	10.341	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1685923	9.315	ppbv	99
64) n-propylbenzene	15.61	120	908558	10.404	ppbv	95
65) tert-Butylbenzene	16.79	119	3018347	10.319	ppbv	99
66) Benzyl Chloride	17.04	91	1369601	12.553	ppbv	98
67) sec-Butylbenzene	17.34	105	4357906	10.354	ppbv	98
69) p-Isopropyltoluene	17.70	119	3602778	10.398	ppbv	99
70) n-Butylbenzene	18.60	91	3897105	10.329	ppbv	99
71) 2-Chlorotoluene	15.50	91	2724516	10.385	ppbv	100
72) 4-Ethyltoluene	15.89	105	2818363	10.905	ppbv	98
73) 1,3,5-Trimethylbenzene	16.04	105	2670975	10.742	ppbv	97
74) 1,2,4-Trimethylbenzene	16.81	105	2786545	10.148	ppbv	99
75) 1,3-Dichlorobenzene	17.05	146	1577735	9.954	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1594571	10.055	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	1562544	10.197	ppbv	99
78) Hexachloro-1,3-Butadiene	23.43	225	1407678	10.550	ppbv	99
79) Naphthalene	22.27	128	2781672	11.511	ppbv	99
80) Naphthalene, 2-methyl-	25.02	142	1088282	14.601	ppbv	96
81) 1,2,4-Trichlorobenzene	22.00	180	1586007m	10.997	ppbv	

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

