

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033675.D
 Acq On : 7 May 2019 1:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:16 PM

Quant Time: May 07 05:40:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	837806	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2041046	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2189389m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1820085	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1512425	7.697	ppbv 98
3) Chlorodifluoromethane	3.01	51	992829	8.206	ppbv 100
4) Chloromethane	3.17	50	526617	8.372	ppbv 100
5) Vinyl Chloride	3.29	62	532485	8.707	ppbv 100
6) Bromomethane	3.51	94	342402	8.813	ppbv 99
7) Chloroethane	3.60	64	200500	9.031	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1394078	8.619	ppbv 98
9) Propene	3.03	41	405326	8.787	ppbv 100
10) Heptane	8.25	43	1175669	10.328	ppbv 98
11) Trichlorofluoromethane	4.00	101	1634992	8.911	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1127093	9.137	ppbv 99
13) Ethanol	3.65	45	94749	6.844	ppbv 100
14) Bromoethene	3.79	108	428880	8.821	ppbv 99
15) Acetone	3.90	43	1014645	8.141	ppbv 100
16) 1,3-Butadiene	3.36	39	479003	8.961	ppbv 98
17) tert-Butyl alcohol	4.35	59	843296	8.908	ppbv 100
18) 1,1-Dichloroethene	4.35	96	483455	9.078	ppbv 97
19) Isopropyl Alcohol	4.02	45	667175	8.713	ppbv 99
20) Methylene Chloride	4.41	84	421917	8.915	ppbv 96
21) Allyl Chloride	4.47	41	725932	9.622	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	511783	9.573	ppbv 96
23) Vinyl Acetate	5.16	43	1592934	9.836	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1120153	9.143	ppbv 99
25) Ethyl Acetate	5.77	43	1974641	9.738	ppbv 100
26) Hexane	5.78	57	869369	9.974	ppbv 99
27) Carbon Disulfide	4.62	76	1254621	10.523	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1348363	9.184	ppbv 99
29) Chloroform	5.85	83	1493865	9.532	ppbv 98
30) Cyclohexane	7.25	84	744743	10.174	ppbv 97
31) cis-1,2-Dichloroethene	5.64	61	884250	10.197	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1484798	9.175	ppbv 99
34) 2-Butanone	5.33	43	1277151	9.772	ppbv 99
35) Carbon Tetrachloride	7.13	117	1726658	10.293	ppbv 97
36) Benzene	7.00	78	1806905	9.873	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1158709	9.074	ppbv 99
38) Trichloroethene	7.96	130	805015	11.991	ppbv 98
39) 1,2-Dichloropropane	7.74	63	666350	9.769	ppbv 96
40) 1,4-Dioxane	7.96	88	292300	10.722	ppbv 92
41) Tetrahydrofuran	6.15	42	702784	10.405	ppbv 99
42) Bromodichloromethane	7.92	83	1746066	10.590	ppbv 96
43) Methyl Methacrylate	8.14	69	741945	10.777	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3457738	11.050	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1029952	12.190	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1149503	10.901	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	788241	10.063	ppbv	98
48) Dibromochloromethane	10.45	129	1463260	11.019	ppbv	100
49) Bromoform	13.20	173	1302793	11.295	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2059053	10.404	ppbv	99
51) 2-Hexanone	10.27	43	1701246	11.096	ppbv #	99
52) Tetrachloroethene	11.37	164	708955	10.934	ppbv	98
53) Toluene	9.94	91	2210020	11.176	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1260694	10.684	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1005051	9.952	ppbv	100
57) Chlorobenzene	12.30	112	1761915	9.801	ppbv	99
58) Ethyl Benzene	12.86	91	3092527	10.831	ppbv	99
59) m/p-Xylene	13.15	91	5218327m	20.751	ppbv	
60) o-Xylene	13.85	91	2657107	10.440	ppbv	100
61) Styrene	13.68	104	1976221	11.661	ppbv	99
62) Isopropylbenzene	14.82	105	3562369	10.251	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1811558	9.780	ppbv	100
64) n-propylbenzene	15.72	120	910643	10.141	ppbv	98
65) tert-Butylbenzene	16.91	119	3196349	10.027	ppbv	100
66) Benzyl Chloride	17.16	91	1711006	11.799	ppbv	100
67) sec-Butylbenzene	17.46	105	4485651	10.086	ppbv	100
69) p-Isopropyltoluene	17.81	119	3768119	10.283	ppbv	100
70) n-Butylbenzene	18.71	91	3950890	10.167	ppbv	100
71) 2-Chlorotoluene	15.61	91	2698129	10.509	ppbv	99
72) 4-Ethyltoluene	16.00	105	3124351	10.444	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2954628	10.215	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	3105651	9.659	ppbv	100
75) 1,3-Dichlorobenzene	17.16	146	1812558	9.334	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1804789	9.793	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1741847	9.682	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1569578	11.008	ppbv	100
79) Naphthalene	22.41	128	3507242	11.948	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1634949	14.733	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1811749	10.623	ppbv	99

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

