

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033169.D
 Acq On : 6 Feb 2019 1:51
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:20:45 PM

Quant Time: Feb 20 05:44:42 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 05:44:42 2019

QLast Update : Wed Feb 20 05:04:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	991405	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2828061	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2764121m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2212651	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1782009	9.402	ppbv	100
3) Chlorodifluoromethane	3.01	51	1108495	9.286	ppbv	100
4) Chloromethane	3.17	50	598012	9.487	ppbv	100
5) Vinyl Chloride	3.29	62	568842	8.636	ppbv	100
6) Bromomethane	3.52	94	343222	9.488	ppbv	100
7) Chloroethane	3.60	64	202611	9.416	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1327369	8.954	ppbv	100
9) Propene	3.04	41	520522	9.027	ppbv	100
10) Heptane	8.25	43	1571371	9.007	ppbv	100
11) Trichlorofluoromethane	4.00	101	1414811	9.220	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	983456	9.247	ppbv	100
13) Ethanol	3.65	45	128383	6.676	ppbv	100
14) Bromoethene	3.79	108	433348	9.450	ppbv	100
15) Acetone	3.90	43	953043	8.533	ppbv	100
16) 1,3-Butadiene	3.36	39	492372	9.287	ppbv	100
17) tert-Butyl alcohol	4.36	59	207225	9.731	ppbv	100
18) 1,1-Dichloroethene	4.35	96	456501	9.589	ppbv	100
19) Isopropyl Alcohol	4.02	45	649520	8.574	ppbv	100
20) Methylene Chloride	4.41	84	384911	8.663	ppbv	100
21) Allyl Chloride	4.48	41	725634	9.839	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	442191	9.565	ppbv	100
23) Vinyl Acetate	5.16	43	1830215	9.454	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1230489	8.987	ppbv	100
25) Ethyl Acetate	5.77	43	2130812	8.485	ppbv	100
26) Hexane	5.78	57	969994	8.228	ppbv	100
27) Carbon Disulfide	4.62	76	1114845	10.322	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1477905	9.174	ppbv	100
29) Chloroform	5.85	83	1578787	8.738	ppbv	100
30) Cyclohexane	7.25	84	1000580	9.147	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1041621	8.827	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	1530386	7.693	ppbv	100
34) 2-Butanone	5.33	43	1487573	8.293	ppbv	100
35) Carbon Tetrachloride	7.14	117	1842830	8.532	ppbv	100
36) Benzene	7.01	78	2218960	7.742	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1198924	7.548	ppbv	100
38) Trichloroethene	7.97	130	887756	7.233	ppbv	100
39) 1,2-Dichloropropane	7.74	63	956695	8.452	ppbv	100
40) 1,4-Dioxane	7.96	88	320935	7.801	ppbv	100
41) Tetrahydrofuran	6.15	42	882307	7.946	ppbv	100
42) Bromodichloromethane	7.92	83	2000389	8.690	ppbv	100
43) Methyl Methacrylate	8.14	69	1010427	8.781	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3979303	8.193	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1330266	10.406	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1525912	9.371	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	999621	8.509	ppbv	100
48) Dibromochloromethane	10.46	129	1695357	9.167	ppbv	100
49) Bromoform	13.21	173	1488946	9.358	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2475095	8.604	ppbv	100
51) 2-Hexanone	10.28	43	2014253	8.881	ppbv #	100
52) Tetrachloroethene	11.38	164	868988	7.892	ppbv	100
53) Toluene	9.95	91	2908084	8.568	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1584867	8.604	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1167690	9.069	ppbv	100
57) Chlorobenzene	12.31	112	2086031	8.525	ppbv	100
58) Ethyl Benzene	12.87	91	3973995	8.757	ppbv	100
59) m/p-Xylene	13.16	91	6389463m	16.927	ppbv	
60) o-Xylene	13.86	91	3101743	8.427	ppbv	100
61) Styrene	13.69	104	2482060	8.933	ppbv	100
62) Isopropylbenzene	14.83	105	4471171	8.609	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2140049	7.439	ppbv	100
64) n-propylbenzene	15.73	120	1155655	8.753	ppbv	100
65) tert-Butylbenzene	16.91	119	3862515	8.541	ppbv	100
66) Benzyl Chloride	17.16	91	2030207	12.562	ppbv	100
67) sec-Butylbenzene	17.47	105	5590525	8.516	ppbv	100
69) p-Isopropyltoluene	17.82	119	4618017	8.447	ppbv	100
70) n-Butylbenzene	18.72	91	4953683	8.398	ppbv	100
71) 2-Chlorotoluene	15.62	91	3516660	8.618	ppbv	100
72) 4-Ethyltoluene	16.01	105	3739951	8.810	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3566152	8.784	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3554538	8.441	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	2070029	8.523	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2106331	8.753	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2060231	8.584	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	943275	7.904	ppbv	100
79) Naphthalene	22.42	128	3890858	8.598	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	1807999	7.899	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1932641	8.407	ppbv	100

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

