

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033183.D
 Acq On : 6 Feb 2019 18:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:33 PM

Quant Time: Feb 20 06:54:57 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 06:54:57 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1024470	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2289715	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2409069m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1896469	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1544968	7.888	ppbv	98
3) Chlorodifluoromethane	3.01	51	963188	7.808	ppbv	99
4) Chloromethane	3.17	50	517121	7.939	ppbv	98
5) Vinyl Chloride	3.29	62	497017	7.308	ppbv	99
6) Bromomethane	3.52	94	300584	8.041	ppbv	94
7) Chloroethane	3.60	64	174710	7.858	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1184010	7.729	ppbv	98
9) Propene	3.04	41	440469	7.392	ppbv	99
10) Heptane	8.25	43	1415100	7.850	ppbv	100
11) Trichlorofluoromethane	4.00	101	1319236	8.320	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	860334	7.829	ppbv	99
13) Ethanol	3.65	45	105267m	5.198	ppbv	
14) Bromoethene	3.79	108	389281	8.215	ppbv	100
15) Acetone	3.90	43	872352	7.558	ppbv	99
16) 1,3-Butadiene	3.36	39	415753	7.588	ppbv	97
17) tert-Butyl alcohol	4.35	59	178775	8.063	ppbv	100
18) 1,1-Dichloroethene	4.35	96	395058	8.031	ppbv	96
19) Isopropyl Alcohol	4.02	45	627091	8.011	ppbv	100
20) Methylene Chloride	4.41	84	340483	7.416	ppbv	96
21) Allyl Chloride	4.48	41	629906	8.265	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	434962	9.105	ppbv	97
23) Vinyl Acetate	5.16	43	1890871	9.452	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1269332	8.971	ppbv	99
25) Ethyl Acetate	5.77	43	2275256	8.767	ppbv	100
26) Hexane	5.78	57	1019868	8.371	ppbv	99
27) Carbon Disulfide	4.62	76	975329	8.739	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1471921	8.842	ppbv	99
29) Chloroform	5.85	83	1693822	9.073	ppbv	97
30) Cyclohexane	7.25	84	847896	7.501	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1103079	9.046	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1622176	7.891	ppbv	99
34) 2-Butanone	5.33	43	1534459	10.565	ppbv	99
35) Carbon Tetrachloride	7.13	117	1664143	9.517	ppbv	98
36) Benzene	7.01	78	2151306	9.270	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1314262	10.219	ppbv	99
38) Trichloroethene	7.97	130	790186	7.968	ppbv	93
39) 1,2-Dichloropropane	7.74	63	845951	9.231	ppbv	98
40) 1,4-Dioxane	7.95	88	300235	9.227	ppbv	95
41) Tetrahydrofuran	6.15	42	911497	10.152	ppbv	99
42) Bromodichloromethane	7.92	83	1863935	10.001	ppbv	98
43) Methyl Methacrylate	8.14	69	898319	9.642	ppbv	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033183.D
 Acq On : 6 Feb 2019 18:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:33 PM

Quant Time: Feb 20 06:54:57 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 06:54:57 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3630330	9.232	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1194172	11.575	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1363726	10.345	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	902000	9.491	ppbv	97
48) Dibromochloromethane	10.45	129	1554836	10.384	ppbv	100
49) Bromoform	13.21	173	1350704	10.484	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2261612	9.711	ppbv	98
51) 2-Hexanone	10.27	43	1822748	9.926	ppbv	100
52) Tetrachloroethene	11.38	164	767567	8.609	ppbv	97
53) Toluene	9.95	91	2584351	9.405	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1438280	9.644	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1046651	9.328	ppbv	98
57) Chlorobenzene	12.31	112	1833567	8.602	ppbv	95
58) Ethyl Benzene	12.87	91	3512052	8.881	ppbv	100
59) m/p-Xylene	13.13	91	5736205m	17.439	ppbv	
60) o-Xylene	13.86	91	2782471	8.675	ppbv	99
61) Styrene	13.69	104	2152732	8.891	ppbv	99
62) Isopropylbenzene	14.83	105	3948604	8.725	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1933540	7.722	ppbv	99
64) n-propylbenzene	15.73	120	1009494	8.775	ppbv	97
65) tert-Butylbenzene	16.92	119	3422925	8.686	ppbv	98
66) Benzyl Chloride	17.16	91	1748712	12.418	ppbv	99
67) sec-Butylbenzene	17.46	105	4990038	8.723	ppbv	99
69) p-Isopropyltoluene	17.82	119	4101056	8.608	ppbv	99
70) n-Butylbenzene	18.72	91	4472442	8.701	ppbv	99
71) 2-Chlorotoluene	15.62	91	3138870	8.829	ppbv	99
72) 4-Ethyltoluene	16.01	105	3341282	9.032	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3179088	8.986	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	3170518	8.640	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1829736	8.645	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1858673	8.864	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1829180	8.746	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1423614	13.690	ppbv	99
79) Naphthalene	22.42	128	3500006	8.875	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1686958	8.458	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1698859	8.481	ppbv	99

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

