

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033421.D
 Acq On : 21 Mar 2019 17:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:10 AM

Quant Time: Mar 22 09:01:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	806429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1921275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1998288m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1507221	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1088422	7.675	ppbv 98
3) Chlorodifluoromethane	3.01	51	954183	10.309	ppbv 100
4) Chloromethane	3.17	50	516076	10.297	ppbv 98
5) Vinyl Chloride	3.29	62	497522	9.622	ppbv 98
6) Bromomethane	3.51	94	317135	10.318	ppbv 97
7) Chloroethane	3.60	64	182447	10.098	ppbv 97
8) Dichlorotetrafluoroethane	3.22	85	1240221	10.273	ppbv 98
9) Propene	3.03	41	417823	10.112	ppbv 99
10) Heptane	8.25	43	1105181	10.784	ppbv 99
11) Trichlorofluoromethane	4.00	101	1390170	9.844	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1183004	12.626	ppbv 97
13) Ethanol	3.64	45	94020	4.773	ppbv 98
14) Bromoethene	3.79	108	405032	10.372	ppbv 99
15) Acetone	3.90	43	883689	7.049	ppbv 98
16) 1,3-Butadiene	3.36	39	390714	9.596	ppbv 95
17) tert-Butyl alcohol	4.35	59	178488	10.118	ppbv 99
18) 1,1-Dichloroethene	4.35	96	422865	9.871	ppbv 99
19) Isopropyl Alcohol	4.02	45	622472	10.439	ppbv 100
20) Methylene Chloride	4.41	84	347037	8.488	ppbv 95
21) Allyl Chloride	4.48	41	637424	10.482	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	692599	16.682	ppbv 98
23) Vinyl Acetate	5.15	43	1547529	10.669	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1094761	10.451	ppbv 99
25) Ethyl Acetate	5.77	43	1864832	10.234	ppbv 100
26) Hexane	5.78	57	817436	10.034	ppbv 99
27) Carbon Disulfide	4.62	76	1647139	17.563	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1321541	10.921	ppbv 100
29) Chloroform	5.85	83	1401323	10.505	ppbv 99
30) Cyclohexane	7.25	84	713149	10.918	ppbv 96
31) cis-1,2-Dichloroethene	5.64	61	878648	10.787	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1392771	10.634	ppbv 99
34) 2-Butanone	5.33	43	1205550	9.554	ppbv 100
35) Carbon Tetrachloride	7.13	117	1457461	10.760	ppbv 97
36) Benzene	7.00	78	1757742	10.223	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1083842	9.969	ppbv 100
38) Trichloroethene	7.96	130	679671	10.446	ppbv 97
39) 1,2-Dichloropropane	7.74	63	679592	10.554	ppbv 98
40) 1,4-Dioxane	7.95	88	243749	10.750	ppbv 86
41) Tetrahydrofuran	6.14	42	708749	10.526	ppbv 98
42) Bromodichloromethane	7.92	83	1546322	10.608	ppbv 99
43) Methyl Methacrylate	8.14	69	726812	10.856	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2938551	10.318	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	965360	11.679	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1096569	11.267	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	732875	10.301	ppbv	95
48) Dibromochloromethane	10.45	129	1293633	10.842	ppbv	100
49) Bromoform	13.21	173	1184930	10.469	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1798783	10.093	ppbv	99
51) 2-Hexanone	10.27	43	1379652	10.034	ppbv #	99
52) Tetrachloroethene	11.37	164	659399	9.205	ppbv	99
53) Toluene	9.95	91	2098406	10.740	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1165915	9.694	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	913982	10.225	ppbv	97
57) Chlorobenzene	12.30	112	1531216	9.675	ppbv	99
58) Ethyl Benzene	12.87	91	2950673	10.438	ppbv	99
59) m/p-Xylene	13.13	91	4964574m	20.436	ppbv	
60) o-Xylene	13.85	91	2433471	10.268	ppbv	99
61) Styrene	13.69	104	1799383	10.844	ppbv	100
62) Isopropylbenzene	14.83	105	3383720	10.270	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1673936	9.770	ppbv	100
64) n-propylbenzene	15.73	120	852660	10.227	ppbv	99
65) tert-Butylbenzene	16.91	119	3050201	10.282	ppbv	99
66) Benzyl Chloride	17.16	91	1551753	12.659	ppbv	99
67) sec-Butylbenzene	17.46	105	4327361	10.295	ppbv	100
69) p-Isopropyltoluene	17.82	119	3580843	10.427	ppbv	100
70) n-Butylbenzene	18.72	91	3677959	10.044	ppbv	100
71) 2-Chlorotoluene	15.62	91	2608981	10.172	ppbv	100
72) 4-Ethyltoluene	16.00	105	2784636	10.346	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2737108	10.439	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2775638	9.995	ppbv #	91
75) 1,3-Dichlorobenzene	17.17	146	1611281	9.845	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1601854	10.109	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1559811	10.063	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1106150	11.902	ppbv	98
79) Naphthalene	22.41	128	2481863	9.275	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1042402	8.215	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1287964	9.439	ppbv	99

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

