

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041719\
 Data File : VL033599.D
 Acq On : 17 Apr 2019 12:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Apr 18 05:53:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	890599	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2212220	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2470089m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1787245	9.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	931878	7.174	ppbv	98
3) Chlorodifluoromethane	3.01	51	907609	8.852	ppbv	99
4) Chloromethane	3.17	50	502324	9.258	ppbv	98
5) Vinyl Chloride	3.29	62	493342	9.255	ppbv	99
6) Bromomethane	3.51	94	317987	9.282	ppbv	92
7) Chloroethane	3.60	64	188082	9.480	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1214105	8.772	ppbv	98
9) Propene	3.04	41	398381	9.252	ppbv	97
10) Heptane	8.24	43	1016990	8.836	ppbv	99
11) Trichlorofluoromethane	4.00	101	1451213	9.065	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	980833	9.122	ppbv	100
13) Ethanol	3.65	45	116318	10.439	ppbv	66
14) Bromoethene	3.79	108	404579	9.434	ppbv	98
15) Acetone	3.90	43	935639	8.737	ppbv	98
16) 1,3-Butadiene	3.36	39	416012	9.794	ppbv	94
17) tert-Butyl alcohol	4.35	59	197929	10.053	ppbv	99
18) 1,1-Dichloroethene	4.35	96	433178	9.379	ppbv	97
19) Isopropyl Alcohol	4.02	45	711931	10.511	ppbv	100
20) Methylene Chloride	4.41	84	386208	8.496	ppbv	97
21) Allyl Chloride	4.48	41	663375	9.800	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	459087	9.528	ppbv	97
23) Vinyl Acetate	5.15	43	1494413	9.805	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1040778	8.989	ppbv	100
25) Ethyl Acetate	5.76	43	1714578	8.630	ppbv	100
26) Hexane	5.78	57	777938	8.806	ppbv	97
27) Carbon Disulfide	4.62	76	1089875	10.375	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1246118	9.794	ppbv	100
29) Chloroform	5.85	83	1297563	8.569	ppbv	99
30) Cyclohexane	7.25	84	676221	9.676	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	816125	9.292	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1333014	9.244	ppbv	99
34) 2-Butanone	5.33	43	1160603	8.732	ppbv	98
35) Carbon Tetrachloride	7.13	117	1402969	8.954	ppbv	99
36) Benzene	7.00	78	1651059	8.895	ppbv	97
37) 1,2-Dichloroethane	6.41	62	1003278	8.064	ppbv	99
38) Trichloroethene	7.96	130	667351	9.553	ppbv	96
39) 1,2-Dichloropropane	7.74	63	634510	8.726	ppbv	95
40) 1,4-Dioxane	7.95	88	242885	9.365	ppbv	87
41) Tetrahydrofuran	6.15	42	645720	8.833	ppbv	97
42) Bromodichloromethane	7.91	83	1481249	8.741	ppbv	100
43) Methyl Methacrylate	8.14	69	683641	9.070	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	2783028	8.580	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	938864	10.146	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1033416	9.563	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	705612	8.546	ppbv	98
48) Dibromochloromethane	10.45	129	1282267	9.207	ppbv	100
49) Bromoform	13.20	173	1167012	8.771	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1675991	8.612	ppbv	99
51) 2-Hexanone	10.27	43	1330078	9.162	ppbv #	99
52) Tetrachloroethene	11.37	164	656487	9.374	ppbv	98
53) Toluene	9.94	91	2000050	9.272	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1126547	8.723	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	899343	7.944	ppbv #	57
57) Chlorobenzene	12.30	112	1511782	7.882	ppbv	97
58) Ethyl Benzene	12.86	91	2757300	8.359	ppbv	100
59) m/p-Xylene	13.15	91	4685099m	15.901	ppbv	
60) o-Xylene	13.85	91	2309057	8.104	ppbv	99
61) Styrene	13.68	104	1717605	8.784	ppbv	99
62) Isopropylbenzene	14.82	105	3280888	8.132	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1609584	7.672	ppbv	100
64) n-propylbenzene	15.72	120	835880	8.165	ppbv	98
65) tert-Butylbenzene	16.90	119	2957142	8.318	ppbv	98
66) Benzyl Chloride	17.15	91	1672441	10.116	ppbv	99
67) sec-Butylbenzene	17.46	105	4157476	8.223	ppbv	100
69) p-Isopropyltoluene	17.82	119	3489289	8.476	ppbv	99
70) n-Butylbenzene	18.71	91	3595610	8.244	ppbv	100
71) 2-Chlorotoluene	15.61	91	2507169	8.172	ppbv	98
72) 4-Ethyltoluene	16.00	105	2708258	8.456	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2611143	8.520	ppbv	97
74) 1,2,4-Trimethylbenzene	16.93	105	2704720	8.234	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	1616520	7.962	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1610289	8.140	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1587467	8.241	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1194168	9.365	ppbv	99
79) Naphthalene	22.41	128	2668922	9.491	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1271803	13.477	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	1391990	8.924	ppbv	99

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

