

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052819\
 Data File : VL033798.D
 Acq On : 28 May 2019 8:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 5/29/2019 12:39:49 PM

Quant Time: May 29 08:52:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	940532	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2328813	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2367688m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1983300	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1493442	7.535	ppbv	99
3) Chlorodifluoromethane	3.01	51	1003829	9.318	ppbv	100
4) Chloromethane	3.17	50	613087	9.950	ppbv	97
5) Vinyl Chloride	3.29	62	610572	9.727	ppbv	97
6) Bromomethane	3.51	94	381082	9.950	ppbv	97
7) Chloroethane	3.60	64	225346	10.102	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	1537853	9.624	ppbv	99
9) Propene	3.03	41	474719	10.360	ppbv	98
10) Heptane	8.24	43	1391101	10.720	ppbv	100
11) Trichlorofluoromethane	4.00	101	1736879	9.181	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1187926	8.992	ppbv	98
13) Ethanol	3.65	45	86646	5.850	ppbv	99
14) Bromoethene	3.78	108	508474	10.470	ppbv	97
15) Acetone	3.90	43	1107246	8.485	ppbv	100
16) 1,3-Butadiene	3.36	39	530494	10.209	ppbv	99
17) tert-Butyl alcohol	4.35	59	1043654	9.891	ppbv	100
18) 1,1-Dichloroethene	4.35	96	531778	9.537	ppbv	99
19) Isopropyl Alcohol	4.02	45	739996	8.795	ppbv	100
20) Methylene Chloride	4.40	84	450703	8.970	ppbv	95
21) Allyl Chloride	4.47	41	767489	9.429	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	548947	9.605	ppbv	97
23) Vinyl Acetate	5.15	43	1785907	10.380	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1261744	9.647	ppbv	99
25) Ethyl Acetate	5.76	43	2141575	9.342	ppbv	100
26) Hexane	5.78	57	957358	9.715	ppbv	99
27) Carbon Disulfide	4.61	76	1326250	9.809	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1702937	10.600	ppbv	99
29) Chloroform	5.84	83	1606486	8.850	ppbv	100
30) Cyclohexane	7.24	84	834743	10.075	ppbv	97
31) cis-1,2-Dichloroethene	5.64	61	973645	9.964	ppbv	93
32) 1,1,1-Trichloroethane	6.61	97	1666243	9.193	ppbv	99
34) 2-Butanone	5.32	43	1423353	9.860	ppbv	99
35) Carbon Tetrachloride	7.13	117	1733596	9.293	ppbv	99
36) Benzene	7.00	78	2039197	9.626	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1213418	8.880	ppbv	99
38) Trichloroethene	7.96	130	813718	10.352	ppbv	98
39) 1,2-Dichloropropane	7.73	63	756599	9.580	ppbv	96
40) 1,4-Dioxane	7.95	88	294475	8.913	ppbv	# 96
41) Tetrahydrofuran	6.14	42	795911	9.841	ppbv	98
42) Bromodichloromethane	7.91	83	1759940	9.407	ppbv	96
43) Methyl Methacrylate	8.13	69	906249	11.624	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3336298	9.319	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1095428	11.083	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1239626	10.711	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	864295	9.633	ppbv	98
48) Dibromochloromethane	10.45	129	1554084	9.996	ppbv	100
49) Bromoform	13.20	173	1527307	11.676	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2154659	9.704	ppbv	100
51) 2-Hexanone	10.26	43	1757695	10.143	ppbv #	99
52) Tetrachloroethene	11.37	164	792894	10.648	ppbv	98
53) Toluene	9.94	91	2444300	10.698	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1341406	9.797	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1044021	9.529	ppbv	97
57) Chlorobenzene	12.29	112	1840602	9.444	ppbv	98
58) Ethyl Benzene	12.86	91	3599787	11.481	ppbv	99
59) m/p-Xylene	13.15	91	5917729m	21.591	ppbv	
60) o-Xylene	13.84	91	2940687	10.643	ppbv	99
61) Styrene	13.68	104	2273083	12.220	ppbv	99
62) Isopropylbenzene	14.82	105	3895448	10.469	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2051506	10.210	ppbv	100
64) n-propylbenzene	15.72	120	1034154	10.745	ppbv	98
65) tert-Butylbenzene	16.90	119	3591409	10.572	ppbv	99
66) Benzyl Chloride	17.15	91	1801530	11.134	ppbv	99
67) sec-Butylbenzene	17.45	105	4973911	10.461	ppbv	100
69) p-Isopropyltoluene	17.81	119	4193135	10.669	ppbv	99
70) n-Butylbenzene	18.71	91	4412031	10.469	ppbv	100
71) 2-Chlorotoluene	15.61	91	3031113	10.980	ppbv	99
72) 4-Ethyltoluene	15.99	105	3553704	11.249	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3314706	10.754	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	3459776	10.314	ppbv	97
75) 1,3-Dichlorobenzene	17.16	146	1997051	9.715	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1976625	10.117	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1932340	10.004	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1053752	7.216	ppbv	100
79) Naphthalene	22.41	128	2641436	8.478	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1016448	8.586	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1521849	8.341	ppbv	100

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

