

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033359.D
 Acq On : 18 Mar 2019 14:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:14:18 PM

Quant Time: Mar 19 07:06:36 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	789362	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1790091	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2176581m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1550838	9.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1078351	7.768	ppbv	98
3) Chlorodifluoromethane	3.01	51	911437	10.060	ppbv	99
4) Chloromethane	3.17	50	489455	9.977	ppbv	99
5) Vinyl Chloride	3.29	62	487978	9.642	ppbv	98
6) Bromomethane	3.51	94	308867	10.267	ppbv	98
7) Chloroethane	3.60	64	180624	10.213	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	1190520	10.074	ppbv	100
9) Propene	3.04	41	390993	9.667	ppbv	100
10) Heptane	8.25	43	1011411	10.082	ppbv	99
11) Trichlorofluoromethane	4.00	101	1376836	9.961	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	899064	9.803	ppbv	100
13) Ethanol	3.65	45	92661	4.806	ppbv	100
14) Bromoethene	3.79	108	390136	10.206	ppbv	100
15) Acetone	3.90	43	878299	7.158	ppbv	100
16) 1,3-Butadiene	3.36	39	433110	10.867	ppbv	93
17) tert-Butyl alcohol	4.35	59	192453	11.145	ppbv	100
18) 1,1-Dichloroethene	4.35	96	402965	9.609	ppbv	98
19) Isopropyl Alcohol	4.02	45	653424	11.195	ppbv	99
20) Methylene Chloride	4.41	84	330713	8.264	ppbv	96
21) Allyl Chloride	4.48	41	611576	10.275	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	408278	10.046	ppbv	99
23) Vinyl Acetate	5.15	43	1445345	10.180	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1022190	9.969	ppbv	100
25) Ethyl Acetate	5.77	43	1708986	9.581	ppbv	100
26) Hexane	5.78	57	754660	9.464	ppbv	99
27) Carbon Disulfide	4.62	76	1002920	10.925	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1202686	10.154	ppbv	100
29) Chloroform	5.85	83	1302745	9.977	ppbv	97
30) Cyclohexane	7.25	84	637910	9.978	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	808199	10.137	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1287076	10.040	ppbv	100
34) 2-Butanone	5.33	43	1124604	9.566	ppbv	99
35) Carbon Tetrachloride	7.14	117	1340566	10.622	ppbv	99
36) Benzene	7.00	78	1588109	9.913	ppbv	99
37) 1,2-Dichloroethane	6.41	62	995057	9.823	ppbv	99
38) Trichloroethene	7.96	130	605812	9.993	ppbv	98
39) 1,2-Dichloropropane	7.74	63	604434	10.075	ppbv	97
40) 1,4-Dioxane	7.96	88	210054	9.943	ppbv	98
41) Tetrahydrofuran	6.15	42	644024	10.266	ppbv	99
42) Bromodichloromethane	7.92	83	1416039	10.426	ppbv	98
43) Methyl Methacrylate	8.14	69	651130	10.438	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2684267	10.116	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	885717	11.501	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	996505	10.989	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	668765	10.089	ppbv	96
48) Dibromochloromethane	10.45	129	1204524	10.835	ppbv	100
49) Bromoform	13.20	173	1217936	11.549	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1656580	9.976	ppbv	100
51) 2-Hexanone	10.27	43	1317030	10.280	ppbv #	99
52) Tetrachloroethene	11.38	164	661344	9.909	ppbv	98
53) Toluene	9.95	91	1887813	10.371	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1061292	9.471	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	966653	9.928	ppbv	94
57) Chlorobenzene	12.30	112	1582816	9.182	ppbv	98
58) Ethyl Benzene	12.87	91	3016985	9.798	ppbv	99
59) m/p-Xylene	13.13	91	5067890m	19.152	ppbv	
60) o-Xylene	13.85	91	2505292	9.705	ppbv	100
61) Styrene	13.69	104	1828929	10.119	ppbv	100
62) Isopropylbenzene	14.83	105	3483160	9.705	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1723428	9.235	ppbv	99
64) n-propylbenzene	15.72	120	888860	9.788	ppbv	100
65) tert-Butylbenzene	16.91	119	3099110	9.591	ppbv	100
66) Benzyl Chloride	17.16	91	1579306	11.828	ppbv	99
67) sec-Butylbenzene	17.46	105	4426943	9.669	ppbv	100
69) p-Isopropyltoluene	17.82	119	3653071	9.766	ppbv	99
70) n-Butylbenzene	18.72	91	3866441	9.694	ppbv	99
71) 2-Chlorotoluene	15.62	91	2699187	9.662	ppbv	100
72) 4-Ethyltoluene	16.00	105	2911122	9.930	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2776958	9.724	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2844044	9.403	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1628306	9.134	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1628845	9.437	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1585056	9.388	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	791509	7.819	ppbv	99
79) Naphthalene	22.42	128	2591026	8.889	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1078045	7.800	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1342697	9.034	ppbv	100

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

