

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033315.D
 Acq On : 14 Mar 2019 14:16
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:42:10 PM

Quant Time: Mar 15 03:15:18 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 15 2019

QLast Update : Thu Mar 14 00:01:31 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	773490	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1762646	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2188807m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1624900	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1527876	10.676	ppbv	100
3) Chlorodifluoromethane	3.01	51	912002	9.039	ppbv	99
4) Chloromethane	3.17	50	479646	8.781	ppbv	95
5) Vinyl Chloride	3.29	62	472461	8.641	ppbv	98
6) Bromomethane	3.52	94	293281	8.909	ppbv	100
7) Chloroethane	3.60	64	180442	9.217	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1168239	8.938	ppbv	99
9) Propene	3.04	41	400018	8.785	ppbv	99
10) Heptane	8.25	43	1080247	9.704	ppbv	99
11) Trichlorofluoromethane	4.00	101	1361734	9.469	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	908661	9.372	ppbv	99
13) Ethanol	3.65	45	101687	7.296	ppbv	100
14) Bromoethene	3.79	108	385102	9.556	ppbv	100
15) Acetone	3.90	43	864359	8.127	ppbv	99
16) 1,3-Butadiene	3.36	39	367304	8.434	ppbv	84
17) tert-Butyl alcohol	4.36	59	173922	9.376	ppbv	99
18) 1,1-Dichloroethene	4.35	96	420836	9.828	ppbv	98
19) Isopropyl Alcohol	4.02	45	590516	9.076	ppbv	99
20) Methylene Chloride	4.41	84	354541	8.234	ppbv	99
21) Allyl Chloride	4.48	41	635654	9.900	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	419935	9.721	ppbv	94
23) Vinyl Acetate	5.16	43	1490095	9.650	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1025846	9.184	ppbv	100
25) Ethyl Acetate	5.77	43	1816578	9.377	ppbv	100
26) Hexane	5.78	57	811255	8.962	ppbv	99
27) Carbon Disulfide	4.62	76	1011911	10.453	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1215407	9.340	ppbv	99
29) Chloroform	5.85	83	1362207	9.680	ppbv	97
30) Cyclohexane	7.25	84	675972	9.619	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	848880	9.739	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1334252	9.770	ppbv	99
34) 2-Butanone	5.33	43	1137695	9.335	ppbv	99
35) Carbon Tetrachloride	7.14	117	1414243	10.437	ppbv	98
36) Benzene	7.01	78	1700607	9.824	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1044374	10.099	ppbv	100
38) Trichloroethene	7.96	130	646977	9.452	ppbv	97
39) 1,2-Dichloropropane	7.74	63	643786	9.684	ppbv	97
40) 1,4-Dioxane	7.95	88	239671	9.977	ppbv	81
41) Tetrahydrofuran	6.15	42	698723	10.335	ppbv	99
42) Bromodichloromethane	7.92	83	1496119	10.321	ppbv	99
43) Methyl Methacrylate	8.14	69	702184	10.189	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2868908	9.693	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	931154	11.521	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1059995	10.885	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	695690	9.777	ppbv	98
48) Dibromochloromethane	10.45	129	1265539	10.811	ppbv	99
49) Bromoform	13.21	173	1250374	12.329	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1758853	9.961	ppbv	99
51) 2-Hexanone	10.27	43	1390126	10.311	ppbv #	99
52) Tetrachloroethene	11.38	164	627878	8.830	ppbv	98
53) Toluene	9.95	91	2010889	10.145	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1125659	9.910	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	985398	10.034	ppbv	98
57) Chlorobenzene	12.31	112	1647485	9.323	ppbv	98
58) Ethyl Benzene	12.87	91	3115333	9.915	ppbv	100
59) m/p-Xylene	13.15	91	5237849m	19.825	ppbv	
60) o-Xylene	13.85	91	2558466	10.040	ppbv	99
61) Styrene	13.69	104	1897104	10.608	ppbv	99
62) Isopropylbenzene	14.83	105	3578682	9.982	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1763067	9.599	ppbv	99
64) n-propylbenzene	15.73	120	903611	10.164	ppbv	98
65) tert-Butylbenzene	16.91	119	3195030	10.544	ppbv	100
66) Benzyl Chloride	17.16	91	1602282	13.290	ppbv	100
67) sec-Butylbenzene	17.46	105	4542859	10.428	ppbv	100
69) p-Isopropyltoluene	17.82	119	3747817	10.767	ppbv	100
70) n-Butylbenzene	18.72	91	3904801	10.729	ppbv	100
71) 2-Chlorotoluene	15.62	91	2756356	10.265	ppbv	100
72) 4-Ethyltoluene	16.00	105	2980416	10.917	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2861103	11.147	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	2904269	11.088	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	1655795	10.099	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1650706	10.310	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1622287	10.163	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	935753	7.949	ppbv	99
79) Naphthalene	22.42	128	2942608	13.674	ppbv	98
80) Naphthalene,2-methyl-	25.11	142	1159950	19.245	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1462424	11.951	ppbv	99

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

