

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008158.D
 Acq On : 18 Mar 2019 10:27
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:36:45 AM

Quant Time: Mar 18 12:07:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 11:50:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	56883	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	322979	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	285213	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	142588	29.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.70%
60) 4-Bromofluorobenzene	11.13	95	143287	29.88	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.60%
63) Toluene-d8	8.71	98	415130	29.67	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	16939	6.820	ug/l 99
3) Chloromethane	1.32	50	24262	7.898	ug/l 95
4) Vinyl Chloride	1.41	62	24900	7.825	ug/l 96
5) Bromomethane	1.64	94	22697	10.788	ug/l 99
6) Chloroethane	1.72	64	16503	8.608	ug/l 99
7) Trichlorofluoromethane	1.93	101	32149	8.298	ug/l 98
8) Diethyl Ether	2.19	74	14683	6.569	ug/l 86
9) 1,1,2-Trichlorotrifluoroet	2.38	101	18756	6.789	ug/l 92
10) 1,1-Dichloroethene	2.37	96	16550m	6.324	ug/l
11) Methyl Iodide	2.51	142	16623	5.378	ug/l 97
12) Methyl Acetate	2.78	43	34216	7.855	ug/l 97
13) Acrolein	2.29	56	22362	36.326	ug/l 99
14) Acrylonitrile	3.14	53	60654	31.743	ug/l 98
15) Acetone	2.45	58	19159	28.425	ug/l 92
16) Carbon Disulfide	2.57	76	50811	6.162	ug/l 98
17) Allyl chloride	2.73	41	35108	6.335	ug/l 95
18) Methylene Chloride	2.86	84	20929	6.800	ug/l 92
19) trans-1,2-Dichloroethene	3.17	96	18441	6.558	ug/l 89
20) Diisopropyl ether	3.85	45	70600	6.333	ug/l # 86
21) 1,1-Dichloroethane	3.70	63	37067	6.470	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	21234	6.616	ug/l # 83
23) tert-Butyl Alcohol	3.05	59	21345	30.263	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	59759	6.321	ug/l 96
25) Chloroform	5.21	83	35733	6.524	ug/l 99
26) Cyclohexane	5.58	56	34342	6.451	ug/l # 86
29) 1,1-Dichloropropene	5.80	75	25960	6.298	ug/l 94
30) 2-Butanone	4.67	43	88130	28.273	ug/l 94
31) 2,2-Dichloropropane	4.59	77	25407	6.171	ug/l 97
32) 1,1,1-Trichloroethane	5.49	97	28339	6.417	ug/l # 93
33) Carbon Tetrachloride	5.78	117	24073	6.675	ug/l 88
34) Benzene	6.14	78	81248m	6.473	ug/l
35) Methacrylonitrile	5.04	41	18017	6.338	ug/l 92
36) 1,2-Dichloroethane	6.20	62	31058	6.726	ug/l # 84
37) Trichloroethene	7.21	130	19689	6.661	ug/l 82
38) Methylcyclohexane	7.46	83	33236	6.682	ug/l 88
39) 1,2-Dichloropropane	7.51	63	21492	6.297	ug/l 98
40) Dibromomethane	7.66	93	13918	6.671	ug/l 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	26078	6.505	ug/l	98
42) Vinyl Acetate	3.81	43	277588	28.326	ug/l #	94
43) Ethyl Acetate	4.83	43	33750	6.325	ug/l #	85
44) Isopropyl Acetate	6.44	43	49610	6.257	ug/l	100
45) 1,4-Dioxane	7.74	88	9647m	127.805	ug/l	
46) Methyl methacrylate	7.77	41	25398	6.034	ug/l	92
47) n-amyl Acetate	10.90	43	41864	6.094	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	26315	6.184	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	30019	6.276	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	19710	6.565	ug/l	96
51) Ethyl methacrylate	9.18	69	28969	6.041	ug/l	90
52) 1,3-Dichloropropane	9.37	76	35498	6.498	ug/l	98
53) Dibromochloromethane	9.58	129	18133	6.325	ug/l	100
54) 1,2-Dibromoethane	9.67	107	20538	6.387	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	87701	24.508	ug/l	95
56) Bromoform	10.85	173	12994	6.392	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	161843	29.810	ug/l	96
59) 2-Hexanone	9.49	43	128037	28.942	ug/l	95
61) Tetrachloroethene	9.34	164	20004	7.121	ug/l	95
62) Toluene	8.78	91	87179	6.654	ug/l	99
64) Chlorobenzene	10.13	112	51889	6.620	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.22	131	17840	6.628	ug/l	98
66) Ethyl Benzene	10.25	91	92089	6.679	ug/l	97
67) m/p-Xylenes	10.35	106	66488	13.044	ug/l	90
68) o-Xylene	10.69	106	32576	6.623	ug/l	90
69) Styrene	10.71	104	51546	6.454	ug/l	95
70) Isopropylbenzene	11.02	105	88008	6.632	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	32162	6.646	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	27429m	6.475	ug/l	
73) Bromobenzene	11.26	156	21452	6.852	ug/l	80
74) n-propylbenzene	11.36	91	104513	6.754	ug/l	95
75) 2-Chlorotoluene	11.42	91	63652	6.845	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	72603	6.625	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	7888	5.700	ug/l	97
78) 4-Chlorotoluene	11.51	91	70559	6.698	ug/l	92
79) tert-butylbenzene	12.06	119	72842	6.641	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	73114	6.632	ug/l	95
81) sec-Butylbenzene	11.94	105	87054	6.698	ug/l	97
82) p-Isopropyltoluene	12.06	119	72842	6.641	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	37758	6.696	ug/l	94
84) 1,4-Dichlorobenzene	12.10	146	37754	6.905	ug/l	95
85) n-Butylbenzene	12.38	91	66051	6.643	ug/l	97
86) Hexachloroethane	12.60	117	12012	6.479	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	38459	6.859	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	6155	6.087	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	22908	6.533	ug/l	96
90) Hexachlorobutadiene	13.78	225	12896	7.141	ug/l	95
91) Naphthalene	13.83	128	70713	6.142	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	23547	6.709	ug/l	99

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

