

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\
 Data File : VX003718.D
 Acq On : 27 Jul 2018 15:58
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX072718

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 3:42:31 PM

Quant Time: Jul 28 02:32:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	22621	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	123740	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	124802	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	50028	30.12	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.40%
60) 4-Bromofluorobenzene	11.14	95	58049	28.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.30%
63) Toluene-d8	8.72	98	155617	27.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	92.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	26298	22.010	ug/l 99
3) Chloromethane	1.32	50	34932	21.723	ug/l 98
4) Vinyl Chloride	1.40	62	36950	21.848	ug/l 100
5) Bromomethane	1.64	94	25698	25.422	ug/l 99
6) Chloroethane	1.72	64	23763	21.466	ug/l 97
7) Trichlorofluoromethane	1.93	101	50029	21.993	ug/l 100
8) Diethyl Ether	2.19	74	21788	22.345	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	31775	23.037	ug/l 96
10) 1,1-Dichloroethene	2.37	96	29416	22.682	ug/l 92
11) Methyl Iodide	2.51	142	36554	20.334	ug/l 95
12) Methyl Acetate	2.78	43	53604	22.338	ug/l 96
13) Acrolein	2.29	56	18898	100.972	ug/l 99
14) Acrylonitrile	3.15	53	102950	108.879	ug/l 98
15) Acetone	2.45	58	27707	107.984	ug/l 85
16) Carbon Disulfide	2.57	76	84002	23.323	ug/l 99
17) Allyl chloride	2.73	41	59072	22.008	ug/l 91
18) Methylene Chloride	2.85	84	34319	22.339	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	31776	22.667	ug/l 97
20) Diisopropyl ether	3.87	45	110783	22.476	ug/l 99
21) 1,1-Dichloroethane	3.70	63	60720	21.761	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	29988	21.183	ug/l # 77
23) tert-Butyl Alcohol	3.07	59	42737	107.601	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	104479	22.463	ug/l 91
25) Chloroform	5.21	83	49389	20.438	ug/l 98
26) Cyclohexane	5.57	56	43618	20.808	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	38132	20.868	ug/l 99
30) 2-Butanone	4.71	43	116477	99.817	ug/l 96
31) 2,2-Dichloropropane	4.58	77	40576	22.925	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	42223	20.196	ug/l 99
33) Carbon Tetrachloride	5.78	117	35533	19.559	ug/l 92
34) Benzene	6.15	78	111102	19.790	ug/l 99
35) Methacrylonitrile	5.07	41	24232	19.983	ug/l 94
36) 1,2-Dichloroethane	6.20	62	39645	19.647	ug/l 99
37) Trichloroethene	7.21	130	32064	21.913	ug/l 93
38) Methylcyclohexane	7.46	83	43825	21.106	ug/l 99
39) 1,2-Dichloropropane	7.52	63	29083	19.603	ug/l 96
40) Dibromomethane	7.67	93	18923	19.710	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	34900	19.026	ug/l	98
42) Vinyl Acetate	3.82	43	479368	106.910	ug/l	99
43) Ethyl Acetate	4.87	43	43899	20.140	ug/l	98
44) Isopropyl Acetate	6.47	43	66471	19.883	ug/l	98
45) 1,4-Dioxane	7.76	88	13888	374.055	ug/l #	89
46) Methyl methacrylate	7.78	41	33956	19.687	ug/l	94
47) n-amyl Acetate	10.90	43	61452	19.469	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	45502	20.443	ug/l	100
49) cis-1,3-Dichloropropene	9.04	75	39607	18.966	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	28093	18.432	ug/l	98
51) Ethyl methacrylate	9.18	69	42038	18.318	ug/l	93
52) 1,3-Dichloropropane	9.37	76	48857	19.263	ug/l	100
53) Dibromochloromethane	9.59	129	27289	18.228	ug/l	99
54) 1,2-Dibromoethane	9.68	107	29079	18.245	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	100949	85.285	ug/l	99
56) Bromoform	10.86	173	20119	17.317	ug/l	100
58) 4-Methyl-2-Pentanone	8.65	43	232390	98.616	ug/l	95
59) 2-Hexanone	9.50	43	172301	91.828	ug/l	97
61) Tetrachloroethene	9.34	164	26164	18.014	ug/l	97
62) Toluene	8.79	91	121829	18.808	ug/l	99
64) Chlorobenzene	10.14	112	81940	19.574	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	27082	18.284	ug/l	98
66) Ethyl Benzene	10.26	91	135653	19.031	ug/l	99
67) m/p-Xylenes	10.36	106	103494	37.695	ug/l	99
68) o-Xylene	10.70	106	48972	18.645	ug/l	98
69) Styrene	10.71	104	83304	18.731	ug/l	97
70) Isopropylbenzene	11.02	105	140212	19.388	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	47286	18.317	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	50151m	23.353	ug/l	
73) Bromobenzene	11.26	156	35519	18.225	ug/l	98
74) n-propylbenzene	11.36	91	179893	21.119	ug/l	99
75) 2-Chlorotoluene	11.43	91	104118	20.739	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	124690	20.320	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	13306	18.183	ug/l	91
78) 4-Chlorotoluene	11.51	91	121603	20.701	ug/l	100
79) tert-butylbenzene	12.07	119	130815	20.719	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	121205	19.300	ug/l	100
81) sec-Butylbenzene	11.95	105	140630	19.679	ug/l	98
82) p-Isopropyltoluene	12.07	119	130815	20.719	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	73012	20.514	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	72592	20.258	ug/l	99
85) n-Butylbenzene	12.39	91	119101	21.252	ug/l	99
86) Hexachloroethane	12.60	117	20280	19.933	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	73355	20.531	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	10497	19.265	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	47308	18.857	ug/l	99
90) Hexachlorobutadiene	13.79	225	22666	19.932	ug/l	99
91) Naphthalene	13.84	128	140402	18.312	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	47685	18.666	ug/l	100

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

