

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009482.D
 Acq On : 10 May 2019 14:57
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/11/2019 11:52:10 AM

Quant Time: May 11 03:26:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	28447	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	164920	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	148347	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	69962	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	11.13	95	73804	29.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.60%
63) Toluene-d8	8.71	98	208497	29.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	30457	20.149 ug/l	99
3) Chloromethane	1.32	50	45292	22.292 ug/l	100
4) Vinyl Chloride	1.40	62	43366	21.395 ug/l	96
5) Bromomethane	1.64	94	24764	19.274 ug/l	100
6) Chloroethane	1.72	64	29638	22.296 ug/l	95
7) Trichlorofluoromethane	1.93	101	55246	22.073 ug/l	95
8) Diethyl Ether	2.18	74	25410	21.864 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	34240	22.096 ug/l	98
10) 1,1-Dichloroethene	2.37	96	35163	22.599 ug/l	95
11) Methyl Iodide	2.51	142	34249	20.248 ug/l	99
12) Methyl Acetate	2.77	43	56425	19.253 ug/l	96
13) Acrolein	2.29	56	39807	99.031 ug/l	100
14) Acrylonitrile	3.14	53	132218	103.955 ug/l	98
15) Acetone	2.44	58	39002	106.804 ug/l	96
16) Carbon Disulfide	2.57	76	97185	23.085 ug/l	100
17) Allyl chloride	2.73	41	78331	20.969 ug/l	98
18) Methylene Chloride	2.85	84	41342	21.985 ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	37089	22.356 ug/l	96
20) Diisopropyl ether	3.85	45	159015	21.617 ug/l	97
21) 1,1-Dichloroethane	3.70	63	75843	21.304 ug/l	98
22) cis-1,2-Dichloroethene	4.59	96	43742	21.889 ug/l	99
23) tert-Butyl Alcohol	3.04	59	50087	93.132 ug/l	100
24) Methyl tert-Butyl Ether	3.19	73	131046	21.521 ug/l	100
25) Chloroform	5.21	83	72490	22.313 ug/l	99
26) Cyclohexane	5.57	56	75196	22.664 ug/l #	98
29) 1,1-Dichloropropene	5.80	75	55620	22.984 ug/l	99
30) 2-Butanone	4.67	43	199084	105.049 ug/l	100
31) 2,2-Dichloropropane	4.58	77	57000	21.366 ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	57902	22.072 ug/l	98
33) Carbon Tetrachloride	5.78	117	48476	22.085 ug/l	98
34) Benzene	6.14	78	167090	22.396 ug/l	99
35) Methacrylonitrile	5.04	41	43021	21.697 ug/l	96
36) 1,2-Dichloroethane	6.19	62	60790	22.456 ug/l	99
37) Trichloroethene	7.21	130	39118	21.781 ug/l	95
38) Methylcyclohexane	7.46	83	69874	23.371 ug/l	100
39) 1,2-Dichloropropane	7.51	63	46468	21.872 ug/l	97
40) Dibromomethane	7.66	93	27173	22.535 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	53301	21.640	ug/l	100
42) Vinyl Acetate	3.81	43	702462	112.306	ug/l	99
43) Ethyl Acetate	4.83	43	75478	22.041	ug/l	98
44) Isopropyl Acetate	6.44	43	118353	21.334	ug/l	99
45) 1,4-Dioxane	7.74	88	20774	381.407	ug/l	98
46) Methyl methacrylate	7.77	41	60165	21.728	ug/l	98
47) n-amyl Acetate	10.90	43	107118	21.434	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	61225	21.304	ug/l	95
49) cis-1,3-Dichloropropene	8.43	75	68328	21.657	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	40078	21.694	ug/l	97
51) Ethyl methacrylate	9.18	69	73261	21.459	ug/l	97
52) 1,3-Dichloropropane	9.37	76	72000	21.960	ug/l	100
53) Dibromochloromethane	9.58	129	40067	21.777	ug/l	100
54) 1,2-Dibromoethane	9.67	107	42199	22.272	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	155706	85.591	ug/l	99
56) Bromoform	10.85	173	29207	20.680	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	385873	105.786	ug/l	100
59) 2-Hexanone	9.49	43	296677	103.695	ug/l	100
61) Tetrachloroethene	9.34	164	37092	22.681	ug/l	98
62) Toluene	8.78	91	179010	22.582	ug/l	99
64) Chlorobenzene	10.13	112	105809	22.179	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	38690	22.149	ug/l	97
66) Ethyl Benzene	10.25	91	197860	22.406	ug/l	100
67) m/p-Xylenes	10.36	106	145369	45.087	ug/l	99
68) o-Xylene	10.69	106	70318	22.180	ug/l	99
69) Styrene	10.71	104	121536	21.838	ug/l	99
70) Isopropylbenzene	11.02	105	190779	22.376	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	66958	21.444	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	58269m	21.655	ug/l	
73) Bromobenzene	11.26	156	46504	22.075	ug/l	99
74) n-propylbenzene	11.36	91	221009	22.369	ug/l	99
75) 2-Chlorotoluene	11.42	91	130870	22.083	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	161594	22.375	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	22454	20.687	ug/l	96
78) 4-Chlorotoluene	11.51	91	149385	22.194	ug/l	99
79) tert-butylbenzene	11.77	119	156056	22.352	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	160361	22.153	ug/l	100
81) sec-Butylbenzene	11.94	105	186583	22.493	ug/l	99
82) p-Isopropyltoluene	12.06	119	170472	22.592	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	83173	22.108	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	81901	21.851	ug/l	99
85) n-Butylbenzene	12.38	91	153603	22.247	ug/l	99
86) Hexachloroethane	12.59	117	27250	21.223	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	83524	22.055	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15100	20.810	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	59809	22.158	ug/l	99
90) Hexachlorobutadiene	13.78	225	31400	23.289	ug/l	99
91) Naphthalene	13.83	128	192986	21.837	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	62118	22.639	ug/l	99

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

