

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032219\
 Data File : VX008335.D
 Acq On : 22 Mar 2019 13:19
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX032219

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:56 AM

Quant Time: Mar 22 15:44:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 15:33:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	50949	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	274509	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	239661	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	103215	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	11.13	95	117880	30.22	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.73%
63) Toluene-d8	8.71	98	321217	29.75	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	56134	20.534	ug/l 99
3) Chloromethane	1.33	50	55725	19.937	ug/l 100
4) Vinyl Chloride	1.41	62	61345	19.473	ug/l 95
5) Bromomethane	1.64	94	116341	20.372	ug/l 99
6) Chloroethane	1.73	64	37039	16.543	ug/l 96
7) Trichlorofluoromethane	1.93	101	94112	18.767	ug/l 96
8) Diethyl Ether	2.19	74	35916	18.467	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	53932	19.446	ug/l 98
10) 1,1-Dichloroethene	2.38	96	53604	19.581	ug/l 97
11) Methyl Iodide	2.51	142	74748	18.062	ug/l 95
12) Methyl Acetate	2.77	43	55485	18.574	ug/l 100
13) Acrolein	2.29	56	58017	123.975	ug/l 99
14) Acrylonitrile	3.14	53	138771	93.607	ug/l 98
15) Acetone	2.45	58	49055	84.383	ug/l 93
16) Carbon Disulfide	2.57	76	150745	19.859	ug/l 100
17) Allyl chloride	2.73	41	77319	19.140	ug/l 98
18) Methylene Chloride	2.86	84	57042	19.356	ug/l 92
19) trans-1,2-Dichloroethene	3.17	96	56433	19.419	ug/l 96
20) Diisopropyl ether	3.85	45	159354	18.866	ug/l 90
21) 1,1-Dichloroethane	3.70	63	93933	18.830	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	65529	19.551	ug/l 99
23) tert-Butyl Alcohol	3.04	59	56263	93.485	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	169837	19.310	ug/l 97
25) Chloroform	5.21	83	100982	19.083	ug/l 91
26) Cyclohexane	5.57	56	87645	19.866	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	75126	19.269	ug/l 99
30) 2-Butanone	4.67	43	196558	87.527	ug/l 97
31) 2,2-Dichloropropane	4.58	77	70549	19.219	ug/l 95
32) 1,1,1-Trichloroethane	5.49	97	87958	19.173	ug/l 99
33) Carbon Tetrachloride	5.78	117	79722	18.922	ug/l 94
34) Benzene	6.14	78	221151	19.042	ug/l # 96
35) Methacrylonitrile	5.04	41	38105	18.216	ug/l 96
36) 1,2-Dichloroethane	6.19	62	81253	18.981	ug/l 100
37) Trichloroethene	7.21	130	65606	19.213	ug/l 96
38) Methylcyclohexane	7.46	83	97583	19.970	ug/l 99
39) 1,2-Dichloropropane	7.51	63	56592	19.150	ug/l 99
40) Dibromomethane	7.66	93	41236	19.025	ug/l 94

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

41) Bromodichloromethane	7.90	83	77554	18.857	ug/l	99
42) Vinyl Acetate	3.81	43	708671	93.888	ug/l	99
43) Ethyl Acetate	4.83	43	71931	18.146	ug/l #	83
44) Isopropyl Acetate	6.45	43	115353	18.491	ug/l	97
45) 1,4-Dioxane	7.74	88	28987	369.432	ug/l	99
46) Methyl methacrylate	7.77	41	58365	19.067	ug/l	99
47) n-amyl Acetate	10.90	43	98935	18.498	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	77801	18.894	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	88129	19.180	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	59508	19.112	ug/l	92
51) Ethyl methacrylate	9.18	69	88750	19.524	ug/l	94
52) 1,3-Dichloropropane	9.37	76	95343	19.093	ug/l	100
53) Dibromochloromethane	9.58	129	66804	19.033	ug/l	100
54) 1,2-Dibromoethane	9.67	107	65175	19.078	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	288779	126.267	ug/l	98
56) Bromoform	10.85	173	50969	18.394	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	374676	92.852	ug/l	96
59) 2-Hexanone	9.49	43	291732	91.395	ug/l	97
61) Tetrachloroethene	9.34	164	62671	19.426	ug/l	99
62) Toluene	8.78	91	240548	18.909	ug/l	97
64) Chlorobenzene	10.13	112	157944	19.259	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.22	131	60432	19.293	ug/l	99
66) Ethyl Benzene	10.25	91	269436	19.584	ug/l	100
67) m/p-Xylenes	10.36	106	212645	38.889	ug/l	99
68) o-Xylene	10.69	106	101833	19.387	ug/l	97
69) Styrene	10.71	104	171911	19.385	ug/l	98
70) Isopropylbenzene	11.02	105	267666	19.368	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	88032	18.680	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	82433m	21.715	ug/l	
73) Bromobenzene	11.26	156	74222	19.411	ug/l	99
74) n-propylbenzene	11.36	91	302828	19.658	ug/l	99
75) 2-Chlorotoluene	11.42	91	179093	19.468	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	230781	19.547	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	24709	18.373	ug/l	95
78) 4-Chlorotoluene	11.51	91	207997	19.211	ug/l	98
79) tert-butylbenzene	12.06	119	244657	19.700	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	231464	19.730	ug/l	100
81) sec-Butylbenzene	11.94	105	266194	19.767	ug/l	99
82) p-Isopropyltoluene	12.06	119	244657	19.700	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	129198	19.467	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	128388	19.426	ug/l	97
85) n-Butylbenzene	12.38	91	208300	19.499	ug/l	99
86) Hexachloroethane	12.60	117	40675	19.004	ug/l	88
87) 1,2-Dichlorobenzene	12.39	146	128654	19.657	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18919	17.537	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	92274	19.920	ug/l	98
90) Hexachlorobutadiene	13.78	225	47465	20.355	ug/l	98
91) Naphthalene	13.83	128	270646	19.453	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	91372	19.511	ug/l	100

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

