

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032719\
 Data File : VX008473.D
 Acq On : 27 Mar 2019 10:53
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 3/28/2019 9:37:02 AM

Quant Time: Mar 27 11:33:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 11:27:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	36390	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	210121	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	187348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	90730	36.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	121.63%
60) 4-Bromofluorobenzene	11.13	95	98051	32.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	107.17%
63) Toluene-d8	8.71	98	268221	31.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	123001	62.996	ug/l 99
3) Chloromethane	1.32	50	159438	79.864	ug/l 97
4) Vinyl Chloride	1.41	62	159634	70.947	ug/l 98
5) Bromomethane	1.64	94	83144	20.384	ug/l 98
6) Chloroethane	1.71	64	97685	61.087	ug/l 95
7) Trichlorofluoromethane	1.93	101	179507	50.116	ug/l 100
8) Diethyl Ether	2.19	74	83918	60.410	ug/l 81
9) 1,1,2-Trichlorotrifluoroet	2.38	101	111249	56.160	ug/l 92
10) 1,1-Dichloroethene	2.37	96	113619	58.108	ug/l 85
11) Methyl Iodide	2.51	142	122003	41.276	ug/l 96
12) Methyl Acetate	3.19	43	91028	42.664	ug/l 91
13) Acrolein	2.29	56	127304	380.867	ug/l 98
14) Acrylonitrile	3.14	53	422684	399.190	ug/l 99
15) Acetone	2.44	58	134195	323.193	ug/l 91
16) Carbon Disulfide	2.57	76	348604	64.299	ug/l 99
17) Allyl chloride	2.73	41	254172	88.093	ug/l 92
18) Methylene Chloride	2.85	84	133607	63.476	ug/l 88
19) trans-1,2-Dichloroethene	3.17	96	120036	57.832	ug/l 88
20) Diisopropyl ether	3.85	45	491420	81.456	ug/l # 89
21) 1,1-Dichloroethane	3.70	63	247446	69.448	ug/l 96
22) cis-1,2-Dichloroethene	4.60	96	139312	58.193	ug/l # 81
23) tert-Butyl Alcohol	3.05	59	172646	401.635	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	413650	65.849	ug/l 99
25) Chloroform	5.21	83	221966	58.727	ug/l 94
26) Cyclohexane	5.58	56	240351	76.276	ug/l # 83
29) 1,1-Dichloropropene	5.80	75	176533	59.153	ug/l 93
30) 2-Butanone	4.67	43	653212	380.008	ug/l 94
31) 2,2-Dichloropropane	4.59	77	176272	62.735	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	182097	51.858	ug/l 95
33) Carbon Tetrachloride	5.78	117	152568	47.309	ug/l 98
34) Benzene	6.14	78	533295	59.990	ug/l # 96
35) Methacrylonitrile	5.04	41	129695	81.000	ug/l 92
36) 1,2-Dichloroethane	6.19	62	190428	58.117	ug/l 97
37) Trichloroethene	7.21	130	122677	46.936	ug/l 84
38) Methylcyclohexane	7.46	83	221306	59.168	ug/l 88
39) 1,2-Dichloropropane	7.51	63	150263	66.429	ug/l 100
40) Dibromomethane	7.66	93	87438	52.704	ug/l 89

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

41) Bromodichloromethane	7.90	83	174716	55.500	ug/l	99
42) Vinyl Acetate	3.81	43	2211505	382.774	ug/l #	94
43) Ethyl Acetate	4.83	43	233615	76.994	ug/l #	82
44) Isopropyl Acetate	6.45	43	376475	78.842	ug/l	98
45) 1,4-Dioxane	7.74	88	76348	1271.206	ug/l #	83
46) Methyl methacrylate	7.77	41	190769	81.420	ug/l	88
47) n-amyl Acetate	10.90	43	356707	87.130	ug/l	93
48) t-1,3-Dichloropropene	9.04	75	197710	62.728	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	223908	63.664	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	130076	54.577	ug/l	97
51) Ethyl methacrylate	9.18	69	242773	69.771	ug/l	91
52) 1,3-Dichloropropane	9.37	76	230339	60.261	ug/l	99
53) Dibromochloromethane	9.58	129	128173	47.707	ug/l	99
54) 1,2-Dibromoethane	9.67	107	133500	51.053	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	619119	353.661	ug/l	95
56) Bromoform	10.85	173	94660	44.628	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	1231604	390.442	ug/l	95
59) 2-Hexanone	9.49	43	1002137	401.620	ug/l	97
61) Tetrachloroethene	9.34	164	100281	39.764	ug/l	98
62) Toluene	8.79	91	559992	56.312	ug/l	99
64) Chlorobenzene	10.13	112	329323	51.368	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	116164	47.442	ug/l	97
66) Ethyl Benzene	10.25	91	625293	58.141	ug/l	95
67) m/p-Xylenes	10.36	106	453922	106.195	ug/l	90
68) o-Xylene	10.69	106	222700	54.236	ug/l	93
69) Styrene	10.71	104	388868	56.095	ug/l	96
70) Isopropylbenzene	11.02	105	587900	54.418	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	225388	61.181	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	190797m	64.295	ug/l	
73) Bromobenzene	11.26	156	140373	46.962	ug/l	78
74) n-propylbenzene	11.36	91	700187	58.145	ug/l	94
75) 2-Chlorotoluene	11.42	91	414901	57.693	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	497828	53.941	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	74381	70.753	ug/l	91
78) 4-Chlorotoluene	11.51	91	476227	56.266	ug/l	91
79) tert-butylbenzene	12.06	119	510432	52.578	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	500688	54.595	ug/l	96
81) sec-Butylbenzene	11.94	105	569457	54.095	ug/l	96
82) p-Isopropyltoluene	12.06	119	510432	52.578	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	247267	47.661	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	249488	48.290	ug/l	96
85) n-Butylbenzene	12.38	91	489168	58.578	ug/l	97
86) Hexachloroethane	12.59	117	85962	51.377	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	254210	49.685	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	50912	60.371	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.65	180	178439	49.277	ug/l	99
90) Hexachlorobutadiene	13.78	225	84625	46.423	ug/l	97
91) Naphthalene	13.83	128	608458	55.946	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	177308	48.434	ug/l	99

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

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