

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102320\
 Data File : VX019073.D
 Acq On : 23 Oct 2020 12:11
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX102320

Manual Integrations
 APPROVED

MMDadoda
 10/26/2020 11:17:02 AM

Quant Time: Oct 26 04:20:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 03:21:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	42559	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	247502	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	219909	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	88177	31.11	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.70%
60) 4-Bromofluorobenzene	11.12	95	98915	29.97	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.90%
63) Toluene-d8	8.70	98	292316	30.11	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	42157	19.711	ug/l 100
3) Chloromethane	1.31	50	37130	19.213	ug/l 99
4) Vinyl Chloride	1.39	62	51151	20.195	ug/l 98
5) Bromomethane	1.64	94	40714	23.208	ug/l 100
6) Chloroethane	1.72	64	34110	19.873	ug/l 97
7) Trichlorofluoromethane	1.92	101	90736	20.573	ug/l 93
8) Diethyl Ether	2.17	74	34014	20.575	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	41859	19.863	ug/l 99
10) 1,1-Dichloroethene	2.36	96	42536	19.855	ug/l 98
11) Methyl Iodide	2.49	142	26611	16.793	ug/l 97
12) Methyl Acetate	2.75	43	42387	19.986	ug/l 96
13) Acrolein	2.28	56	22821	116.862	ug/l 99
14) Acrylonitrile	3.12	53	98973	99.333	ug/l 100
15) Acetone	2.42	58	29646	103.865	ug/l 98
16) Carbon Disulfide	2.55	76	118657	19.926	ug/l 100
17) Allyl chloride	2.71	41	52688	19.688	ug/l 99
18) Methylene Chloride	2.84	84	47517	19.448	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	48693	19.460	ug/l 99
20) Diisopropyl ether	3.82	45	106325	19.613	ug/l 96
21) 1,1-Dichloroethane	3.67	63	77801	19.547	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	55858	19.272	ug/l 99
23) tert-Butyl Alcohol	3.01	59	52204	108.071	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	133668	19.731	ug/l 100
25) Chloroform	5.18	83	85255	19.331	ug/l 100
26) Cyclohexane	5.55	56	60715	19.630	ug/l # 98
29) 1,1-Dichloropropene	5.77	75	64781	18.554	ug/l 99
30) 2-Butanone	4.64	43	135434	97.365	ug/l 99
31) 2,2-Dichloropropane	4.55	77	73860	18.488	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	77177	18.390	ug/l 99
33) Carbon Tetrachloride	5.76	117	65449	17.971	ug/l 99
34) Benzene	6.11	78	191445	18.635	ug/l 99
35) Methacrylonitrile	5.00	41	27679	18.382	ug/l 94
36) 1,2-Dichloroethane	6.16	62	64947	18.429	ug/l 99
37) Trichloroethene	7.19	130	54251	18.372	ug/l 100
38) Methylcyclohexane	7.44	83	71500	18.269	ug/l 98
39) 1,2-Dichloropropane	7.49	63	44534	18.674	ug/l 100
40) Dibromomethane	7.63	93	34202	18.480	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	66485	18.170	ug/l	96
42) Vinyl Acetate	3.78	43	505757	93.446	ug/l	100
43) Ethyl Acetate	4.79	43	54724	18.754	ug/l	100
44) Isopropyl Acetate	6.41	43	91192	18.663	ug/l	100
45) 1,4-Dioxane	7.71	88	20593	400.951	ug/l	95
46) Methyl methacrylate	7.74	41	42356	18.314	ug/l	99
47) n-amyl Acetate	10.88	43	73391	18.725	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	72605	17.724	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	78498	18.008	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	48191	17.977	ug/l	95
51) Ethyl methacrylate	9.16	69	70964	18.142	ug/l	96
52) 1,3-Dichloropropane	9.35	76	79648	18.238	ug/l	100
53) Dibromochloromethane	9.56	129	51087	17.119	ug/l	99
54) 1,2-Dibromoethane	9.65	107	51442	17.660	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	193485	92.560	ug/l	100
56) Bromoform	10.84	173	35486	17.009	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	267559	96.479	ug/l	99
59) 2-Hexanone	9.47	43	202233	97.860	ug/l	100
61) Tetrachloroethene	9.32	164	47157	18.076	ug/l	93
62) Toluene	8.76	91	213282	18.454	ug/l	99
64) Chlorobenzene	10.12	112	134463	18.716	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	47965	18.357	ug/l	100
66) Ethyl Benzene	10.23	91	236165	18.638	ug/l	99
67) m/p-Xylenes	10.34	106	179643	37.175	ug/l	99
68) o-Xylene	10.68	106	85896	18.637	ug/l	99
69) Styrene	10.70	104	143436	18.471	ug/l	99
70) Isopropylbenzene	11.00	105	230183	18.575	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	70061	19.583	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	63765m	19.820	ug/l	
73) Bromobenzene	11.24	156	58026	19.159	ug/l	99
74) n-propylbenzene	11.34	91	263583	18.785	ug/l	99
75) 2-Chlorotoluene	11.40	91	152242	19.181	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	189938	18.888	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	22781	17.830	ug/l	95
78) 4-Chlorotoluene	11.49	91	179977	19.296	ug/l	100
79) tert-butylbenzene	11.76	119	189909	19.179	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	189134	18.921	ug/l	99
81) sec-Butylbenzene	11.93	105	224546	19.164	ug/l	100
82) p-Isopropyltoluene	12.05	119	205977	19.075	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	102587	18.952	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	107329	19.528	ug/l	100
85) n-Butylbenzene	12.37	91	187277	19.369	ug/l	99
86) Hexachloroethane	12.58	117	30295	18.266	ug/l	100
87) 1,2-Dichlorobenzene	12.37	146	101372	19.562	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	15247	18.830	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	70657	18.947	ug/l	98
90) Hexachlorobutadiene	13.76	225	31375	19.842	ug/l	97
91) Naphthalene	13.82	128	231975	19.002	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	66446	18.522	ug/l	97

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

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