

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072720\
 Data File : VX017607.D
 Acq On : 27 Jul 2020 09:23
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/28/2020 10:31:51 AM

Quant Time: Jul 27 11:40:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072720W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 27 11:26:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	111533	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	624122	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	560305	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	268146	33.29	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.97%
60) 4-Bromofluorobenzene	11.12	95	257857	26.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.73%
63) Toluene-d8	8.70	98	697709	28.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	28526	4.968 ug/l	91
3) Chloromethane	1.31	50	30936	5.211 ug/l	96
4) Vinyl Chloride	1.39	62	30706	5.024 ug/l	100
5) Bromomethane	1.63	94	24442	6.147 ug/l	94
6) Chloroethane	1.71	64	18871	4.907 ug/l	100
7) Trichlorofluoromethane	1.92	101	56649	5.503 ug/l	93
8) Diethyl Ether	2.17	74	18855	5.462 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.37	101	30609	5.716 ug/l	97
10) 1,1-Dichloroethene	2.36	96	29652	5.658 ug/l	91
11) Methyl Iodide	2.49	142	21402	3.391 ug/l	98
12) Methyl Acetate	2.75	43	39151	5.269 ug/l	94
13) Acrolein	2.27	56	30678	31.762 ug/l	99
14) Acrylonitrile	3.11	53	72868	22.135 ug/l	96
15) Acetone	2.42	58	22239	26.135 ug/l	96
16) Carbon Disulfide	2.55	76	63726	4.526 ug/l	96
17) Allyl chloride	2.71	41	51218	5.221 ug/l	94
18) Methylene Chloride	2.83	84	32972	5.138 ug/l	91
19) trans-1,2-Dichloroethene	3.14	96	27353	4.571 ug/l	91
20) Diisopropyl ether	3.82	45	103876	5.325 ug/l	89
21) 1,1-Dichloroethane	3.67	63	54205	5.011 ug/l	97
22) cis-1,2-Dichloroethene	4.56	96	34582m	5.008 ug/l	
23) tert-Butyl Alcohol	3.01	59	36500	25.929 ug/l	# 100
24) Methyl tert-Butyl Ether	3.17	73	95216	4.713 ug/l	97
25) Chloroform	5.17	83	58421	4.989 ug/l	98
26) Cyclohexane	5.54	56	39085	4.516 ug/l	# 100
29) 1,1-Dichloropropene	5.76	75	42830	4.833 ug/l	96
30) 2-Butanone	4.63	43	110308	22.657 ug/l	98
31) 2,2-Dichloropropane	4.55	77	54540m	4.855 ug/l	
32) 1,1,1-Trichloroethane	5.46	97	55145	4.752 ug/l	99
33) Carbon Tetrachloride	5.76	117	52720	4.895 ug/l	88
34) Benzene	6.11	78	113474	4.389 ug/l	96
35) Methacrylonitrile	5.00	41	23349	4.257 ug/l	87
36) 1,2-Dichloroethane	6.17	62	49724	4.797 ug/l	98
37) Trichloroethene	7.18	130	34489	4.325 ug/l	98
38) Methylcyclohexane	7.43	83	42571	4.475 ug/l	98
39) 1,2-Dichloropropane	7.49	63	30568	4.437 ug/l	96
40) Dibromomethane	7.63	93	23165	4.662 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	46030	4.400	ug/l	95
42) Vinyl Acetate	3.78	43	425200	23.593	ug/l	99
43) Ethyl Acetate	4.79	43	46908	5.006	ug/l	96
44) Isopropyl Acetate	6.42	43	71075	4.514	ug/l	99
45) 1,4-Dioxane	7.71	88	12824	83.021	ug/l	89
46) Methyl methacrylate	7.75	41	35718	4.665	ug/l	98
47) n-amyl Acetate	10.88	43	52604	3.781	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	46277	3.981	ug/l	97
49) cis-1,3-Dichloropropene	8.41	75	55075	4.523	ug/l	95
50) 1,1,2-Trichloroethane	9.20	97	28992	3.973	ug/l #	87
51) Ethyl methacrylate	9.16	69	39685	3.681	ug/l	95
52) 1,3-Dichloropropane	9.35	76	49744	4.214	ug/l	99
53) Dibromochloromethane	9.57	129	38832	4.391	ug/l	100
54) 1,2-Dibromoethane	9.65	107	36395	4.683	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	107784	21.276	ug/l	98
56) Bromoform	10.84	173	28093	4.027	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	206402	21.660	ug/l	99
59) 2-Hexanone	9.47	43	148210	21.283	ug/l	98
61) Tetrachloroethene	9.32	164	40236	5.405	ug/l	92
62) Toluene	8.76	91	121567	4.343	ug/l	98
64) Chlorobenzene	10.12	112	84646	4.669	ug/l	90
65) 1,1,1,2-Tetrachloroethane	10.20	131	34483	4.592	ug/l	98
66) Ethyl Benzene	10.24	91	139155	4.522	ug/l	98
67) m/p-Xylenes	10.34	106	97366	8.246	ug/l	97
68) o-Xylene	10.68	106	48728	4.289	ug/l	100
69) Styrene	10.70	104	80776	4.023	ug/l	96
70) Isopropylbenzene	11.00	105	136783	4.287	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	38987	4.018	ug/l	97
72) 1,2,3-Trichloropropane	11.28	75	41304m	4.317	ug/l	
73) Bromobenzene	11.24	156	38413	4.333	ug/l	98
74) n-propylbenzene	11.34	91	153706	4.222	ug/l	100
75) 2-Chlorotoluene	11.40	91	97878	4.442	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	117958	4.408	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	14962	3.972	ug/l	96
78) 4-Chlorotoluene	11.49	91	116872	4.485	ug/l	100
79) tert-butylbenzene	11.76	119	122728	4.720	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	128550	4.775	ug/l	98
81) sec-Butylbenzene	11.93	105	137157	4.566	ug/l	99
82) p-Isopropyltoluene	12.05	119	123866	4.333	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	70993	4.530	ug/l	97
84) 1,4-Dichlorobenzene	12.08	146	69980	4.405	ug/l	99
85) n-Butylbenzene	12.37	91	130615	5.251	ug/l	98
86) Hexachloroethane	12.58	117	28590	5.108	ug/l	90
87) 1,2-Dichlorobenzene	12.38	146	75107	4.932	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	11211	4.672	ug/l	94
89) 1,2,4-Trichlorobenzene	13.63	180	47920	4.428	ug/l	98
90) Hexachlorobutadiene	13.76	225	23611	5.346	ug/l	91
91) Naphthalene	13.82	128	126144	3.827	ug/l	98
92) 1,2,3-Trichlorobenzene	14.00	180	45108	4.239	ug/l	94

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

