

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023492.D
 Acq On : 28 Jul 2021 15:01
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/30/2021 6:17:18 PM

Quant Time: Jul 29 01:21:50 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072921W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 29 01:17:39 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.904	128	38530	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	216780	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	197113	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	87484	29.711	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.033%
60) 4-Bromofluorobenzene	11.085	95	93375	28.837	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.133%
63) Toluene-d8	8.653	98	266850	29.607	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12075	5.376	ug/l	100
3) Chloromethane	1.294	50	13594	5.037	ug/l	99
4) Vinyl Chloride	1.374	62	13227	4.790	ug/l	97
5) Bromomethane	1.599	94	9327	5.885	ug/l	82
6) Chloroethane	1.685	64	8461	4.774	ug/l	99
7) Trichlorofluoromethane	1.886	101	21707	5.512	ug/l	95
8) Diethyl Ether	2.136	74	7743	4.707	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	12350	5.467	ug/l	99
10) 1,1-Dichloroethene	2.319	96	11559	5.128	ug/l	93
11) Methyl Iodide	2.453	142	13093	5.561	ug/l	94
12) Methyl Acetate	2.709	43	17254	5.457	ug/l	96
13) Acrolein	2.239	56	12262	26.357	ug/l	98
14) Acrylonitrile	3.068	53	38691	29.464	ug/l	99
15) Acetone	2.386	58	11447	29.134	ug/l	94
16) Carbon Disulfide	2.508	76	24848	4.160	ug/l	99
17) Allyl chloride	2.666	41	20120	5.025	ug/l	90
18) Methylene Chloride	2.794	84	14843	5.471	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	12419	5.083	ug/l	96
20) Diisopropyl ether	3.770	45	41299	5.380	ug/l	100
21) 1,1-Dichloroethane	3.617	63	22489	5.006	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	14516	5.022	ug/l	99
23) tert-Butyl Alcohol	2.977	59	16652	26.592	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	40543	5.462	ug/l	100
25) Chloroform	5.099	83	23758	5.175	ug/l	94
26) Cyclohexane	5.477	56	21321	5.619	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	16470	4.888	ug/l	94
30) 2-Butanone	4.568	43	56059	28.622	ug/l	99
31) 2,2-Dichloropropane	4.483	77	18102	4.653	ug/l #	71
32) 1,1,1-Trichloroethane	5.391	97	19226	4.840	ug/l	98
33) Carbon Tetrachloride	5.684	117	16301	4.869	ug/l	96
34) Benzene	6.044	78	51502	5.020	ug/l	98
35) Methacrylonitrile	4.934	41	10666	5.174	ug/l	93
36) 1,2-Dichloroethane	6.092	62	19395	5.432	ug/l #	92
37) Trichloroethene	7.129	130	13613	5.229	ug/l	100
38) Methylcyclohexane	7.385	83	21574	5.547	ug/l	98
39) 1,2-Dichloropropane	7.440	63	13157	5.118	ug/l	99
40) Dibromomethane	7.586	93	8791	4.933	ug/l	98
41) Bromodichloromethane	7.824	83	14924	4.278	ug/l	89
42) Vinyl Acetate	3.733	43	176899	24.789	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	21231	5.425	ug/l	99
44) Isopropyl Acetate	6.348	43	32254	5.032	ug/l	99
45) 1,4-Dioxane	7.665	88	6822	115.790	ug/l	94
46) Methyl methacrylate	7.696	41	15289	5.104	ug/l	95
47) n-amyl Acetate	10.848	43	25154	4.718	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	16364	4.165	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	18440	4.387	ug/l	100
50) 1,1,2-Trichloroethane	9.159	97	13106	5.117	ug/l	96
51) Ethyl methacrylate	9.122	69	20258	4.949	ug/l	92
52) 1,3-Dichloropropane	9.311	76	22002	4.968	ug/l	96
53) Dibromochloromethane	9.525	129	10743	4.259	ug/l	98
54) 1,2-Dibromoethane	9.616	107	13451	5.117	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	52839	24.496	ug/l	99
56) Bromoform	10.805	173	7185	4.417	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	105873	26.379	ug/l	99
59) 2-Hexanone	9.433	43	82796	27.568	ug/l	98
61) Tetrachloroethene	9.275	164	13975	6.090	ug/l	97
62) Toluene	8.720	91	57335	5.115	ug/l	98
64) Chlorobenzene	10.086	112	34904	5.171	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	11421	4.675	ug/l	98
66) Ethyl Benzene	10.195	91	61730	5.016	ug/l	98
67) m/p-Xylenes	10.305	106	45709	9.772	ug/l	98
68) o-Xylene	10.646	106	22984	5.072	ug/l	99
69) Styrene	10.659	104	34544	4.550	ug/l	100
70) Isopropylbenzene	10.963	105	58723	4.915	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	19638	5.001	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	18264m	5.160	ug/l	
73) Bromobenzene	11.201	156	15431	5.936	ug/l	97
74) n-propylbenzene	11.305	91	66909	4.810	ug/l	100
75) 2-Chlorotoluene	11.366	91	41651	5.053	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	50211	5.038	ug/l	97
77) t-1,4-Dichloro-2-butene	11.024	75	4870	3.569	ug/l	98
78) 4-Chlorotoluene	11.457	91	45600	4.823	ug/l	98
79) tert-butylbenzene	11.719	119	48730	5.106	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	49706	4.995	ug/l	99
81) sec-Butylbenzene	11.896	105	60508	5.028	ug/l	99
82) p-Isopropyltoluene	12.012	119	50396	5.013	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	26386	5.434	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	25793	5.311	ug/l	99
85) n-Butylbenzene	12.335	91	43595	4.756	ug/l	98
86) Hexachloroethane	12.542	117	6642	4.044	ug/l	97
87) 1,2-Dichlorobenzene	12.341	146	25591	5.426	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3311	3.851	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	14291	4.931	ug/l	99
90) Hexachlorobutadiene	13.731	225	7072	6.140	ug/l	97
91) Naphthalene	13.780	128	47944	4.319	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	14821	5.170	ug/l	98

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

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