

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090121\
 Data File : VX024055.D
 Acq On : 01 Sep 2021 09:39
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/2/2021 7:20:36 PM

Quant Time: Sep 02 07:05:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	32126	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	165738	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155591	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	82129	33.057	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 110.200%#	
60) 4-Bromofluorobenzene	11.085	95	78559	30.826	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.767%	
63) Toluene-d8	8.652	98	208265	29.742	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.133%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	33520	17.665	ug/l	100
3) Chloromethane	1.294	50	35678	16.666	ug/l	100
4) Vinyl Chloride	1.373	62	34232	15.987	ug/l	99
5) Bromomethane	1.605	94	25101	19.978	ug/l	99
6) Chloroethane	1.684	64	21996	16.407	ug/l	97
7) Trichlorofluoromethane	1.885	101	57685	16.681	ug/l	93
8) Diethyl Ether	2.135	74	22754	18.454	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.330	101	36035	18.654	ug/l	98
10) 1,1-Dichloroethene	2.318	96	31892	17.135	ug/l	100
11) Methyl Iodide	2.452	142	45613	17.442	ug/l	96
12) Methyl Acetate	2.708	43	60448	21.776	ug/l	100
13) Acrolein	2.239	56	34690	113.508	ug/l	99
14) Acrylonitrile	3.068	53	126869	103.313	ug/l	98
15) Acetone	2.385	58	41011	110.198	ug/l	96
16) Carbon Disulfide	2.513	76	75626	16.471	ug/l	99
17) Allyl chloride	2.666	41	65690	19.100	ug/l	93
18) Methylene Chloride	2.794	84	42255	19.303	ug/l	98
19) trans-1,2-Dichloroethene	3.092	96	35927	18.035	ug/l	97
20) Diisopropyl ether	3.769	45	136853	19.927	ug/l	94
21) 1,1-Dichloroethane	3.611	63	72896	19.487	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	42827	18.473	ug/l	91
23) tert-Butyl Alcohol	2.971	59	61612	110.567	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	135566	20.764	ug/l	97
25) Chloroform	5.098	83	77442	20.182	ug/l	99
26) Cyclohexane	5.470	56	58768	17.304	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	50870	19.707	ug/l	99
30) 2-Butanone	4.562	43	202983	117.312	ug/l	98
31) 2,2-Dichloropropane	4.482	77	58281	19.972	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	64033	20.505	ug/l	98
33) Carbon Tetrachloride	5.684	117	55890	20.577	ug/l	99
34) Benzene	6.043	78	156596	20.122	ug/l	98
35) Methacrylonitrile	4.921	41	40016	23.001	ug/l	93
36) 1,2-Dichloroethane	6.092	62	71495	24.042	ug/l	97
37) Trichloroethene	7.128	130	41589	19.669	ug/l	97
38) Methylcyclohexane	7.384	83	60450	18.410	ug/l	97
39) 1,2-Dichloropropane	7.433	63	42968	21.099	ug/l	95
40) Dibromomethane	7.586	93	31910	22.088	ug/l	95
41) Bromodichloromethane	7.823	83	57388	21.888	ug/l	96
42) Vinyl Acetate	3.727	43	621974	110.356	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	70779	22.052	ug/l	100
44) Isopropyl Acetate	6.348	43	113092	22.132	ug/l	97
45) 1,4-Dioxane	7.665	88	23271	438.880	ug/l	92
46) Methyl methacrylate	7.695	41	54518	22.123	ug/l	96
47) n-amyl Acetate	10.847	43	94744	21.793	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	63580	20.770	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	68137	20.989	ug/l	99
50) 1,1,2-Trichloroethane	9.152	97	44931	21.535	ug/l	97
51) Ethyl methacrylate	9.116	69	70066	21.299	ug/l	98
52) 1,3-Dichloropropane	9.311	76	75511	22.047	ug/l	99
53) Dibromochloromethane	9.524	129	42843	20.431	ug/l	99
54) 1,2-Dibromoethane	9.610	107	47878	21.685	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	160420	97.643	ug/l	100
56) Bromoform	10.805	173	30421	20.218	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	380537	113.447	ug/l	99
59) 2-Hexanone	9.433	43	298331	114.533	ug/l	98
61) Tetrachloroethene	9.274	164	42584	20.370	ug/l	98
62) Toluene	8.720	91	174907	19.926	ug/l	99
64) Chlorobenzene	10.079	112	110213	19.845	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	42260	20.553	ug/l	98
66) Ethyl Benzene	10.195	91	189795	19.539	ug/l	99
67) m/p-Xylenes	10.305	106	149676	39.843	ug/l	99
68) o-Xylene	10.646	106	74570	20.134	ug/l	100
69) Styrene	10.658	104	122685	20.101	ug/l	98
70) Isopropylbenzene	10.963	105	192465	19.765	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	69068	22.172	ug/l	98
72) 1,2,3-Trichloropropane	11.243	75	66052m	22.558	ug/l	
73) Bromobenzene	11.201	156	49531	20.893	ug/l	96
74) n-propylbenzene	11.304	91	225454	19.994	ug/l	99
75) 2-Chlorotoluene	11.365	91	139863	20.779	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	167600	20.754	ug/l	97
77) t-1,4-Dichloro-2-butene	11.024	75	20671	19.776	ug/l	94
78) 4-Chlorotoluene	11.457	91	158144	20.794	ug/l	99
79) tert-butylbenzene	11.719	119	157418	20.067	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	164687	20.578	ug/l	98
81) sec-Butylbenzene	11.896	105	199965	19.901	ug/l	99
82) p-Isopropyltoluene	12.012	119	170036	20.596	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	90050	20.971	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	89526	21.093	ug/l	98
85) n-Butylbenzene	12.335	91	145761	19.957	ug/l	98
86) Hexachloroethane	12.542	117	25262	18.827	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	89369	21.567	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.944	75	16069	23.486	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	54200	21.145	ug/l	99
90) Hexachlorobutadiene	13.731	225	24923	21.677	ug/l	98
91) Naphthalene	13.780	128	185141	21.030	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54910	21.322	ug/l	98

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

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