

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082221\
 Data File : VX023898.D
 Acq On : 20 Aug 2021 23:26
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/23/2021 11:32:39 AM

Quant Time: Aug 21 01:11:55 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	4.910	128	32249	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	176633	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	159452	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	76352	30.615	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.033%	
60) 4-Bromofluorobenzene	11.085	95	79491	30.436	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.467%	
63) Toluene-d8	8.653	98	216713	30.199	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.667%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	37582	19.731	ug/l	99
3) Chloromethane	1.294	50	38534	17.931	ug/l	99
4) Vinyl Chloride	1.374	62	40186	18.696	ug/l	97
5) Bromomethane	1.605	94	29286	23.220	ug/l	98
6) Chloroethane	1.685	64	25557	18.990	ug/l	99
7) Trichlorofluoromethane	1.886	101	67168	19.349	ug/l	94
8) Diethyl Ether	2.142	74	23249	18.783	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	37178	19.172	ug/l	99
10) 1,1-Dichloroethene	2.319	96	35308	18.898	ug/l	98
11) Methyl Iodide	2.453	142	52191	19.881	ug/l	95
12) Methyl Acetate	2.715	43	57703	20.708	ug/l	98
13) Acrolein	2.239	56	24290	79.175	ug/l	99
14) Acrylonitrile	3.075	53	121473	98.541	ug/l	99
15) Acetone	2.386	58	32577	87.202	ug/l	98
16) Carbon Disulfide	2.514	76	88325	19.163	ug/l	100
17) Allyl chloride	2.666	41	64506	18.684	ug/l	98
18) Methylene Chloride	2.794	84	42400	19.296	ug/l	97
19) trans-1,2-Dichloroethene	3.099	96	38783	19.395	ug/l	97
20) Diisopropyl ether	3.776	45	135180	19.608	ug/l	92
21) 1,1-Dichloroethane	3.617	63	75557	20.121	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	46096	19.808	ug/l	99
23) tert-Butyl Alcohol	2.977	59	52415	93.704	ug/l	# 100
24) Methyl tert-Butyl Ether	3.123	73	133873	20.427	ug/l	99
25) Chloroform	5.105	83	78024	20.256	ug/l	100
26) Cyclohexane	5.483	56	65247	19.138	ug/l	# 100
29) 1,1-Dichloropropene	5.702	75	55549	20.192	ug/l	99
30) 2-Butanone	4.574	43	178247	96.662	ug/l	99
31) 2,2-Dichloropropane	4.483	77	49846	16.028	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	67720	20.348	ug/l	98
33) Carbon Tetrachloride	5.684	117	57695	19.932	ug/l	97
34) Benzene	6.050	78	161802	19.508	ug/l	98
35) Methacrylonitrile	4.928	41	36771	19.832	ug/l	95
36) 1,2-Dichloroethane	6.098	62	65516	20.672	ug/l	100
37) Trichloroethene	7.135	130	45308	20.106	ug/l	98
38) Methylcyclohexane	7.385	83	64133	18.327	ug/l	97
39) 1,2-Dichloropropane	7.440	63	42913	19.772	ug/l	98
40) Dibromomethane	7.586	93	31060	20.174	ug/l	96
41) Bromodichloromethane	7.830	83	55889	20.002	ug/l	99
42) Vinyl Acetate	3.733	43	599976	99.887	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	70143m	20.506	ug/l	
44) Isopropyl Acetate	6.348	43	109392	20.088	ug/l	98
45) 1,4-Dioxane	7.665	88	21648	383.088	ug/l	96
46) Methyl methacrylate	7.702	41	53132	20.230	ug/l	96
47) n-amyl Acetate	10.848	43	92112	19.881	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	61199	18.759	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	63407	18.327	ug/l	99
50) 1,1,2-Trichloroethane	9.159	97	42847	19.269	ug/l	94
51) Ethyl methacrylate	9.122	69	67372	19.217	ug/l	97
52) 1,3-Dichloropropane	9.311	76	73132	20.035	ug/l	100
53) Dibromochloromethane	9.525	129	43104	19.288	ug/l	97
54) 1,2-Dibromoethane	9.616	107	46513	19.767	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	162402	92.752	ug/l	99
56) Bromoform	10.805	173	30005	18.712	ug/l	100
58) 4-Methyl-2-Pentanone	8.580	43	354333	103.077	ug/l	99
59) 2-Hexanone	9.433	43	281413	105.422	ug/l	98
61) Tetrachloroethene	9.275	164	43934	20.507	ug/l	99
62) Toluene	8.726	91	181318	20.157	ug/l	99
64) Chlorobenzene	10.079	112	113774	19.990	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	42135	19.996	ug/l	99
66) Ethyl Benzene	10.195	91	198729	19.963	ug/l	99
67) m/p-Xylenes	10.305	106	153991	39.999	ug/l	98
68) o-Xylene	10.646	106	76229	20.084	ug/l	98
69) Styrene	10.659	104	125530	20.069	ug/l	99
70) Isopropylbenzene	10.963	105	202573	20.299	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	69749	21.848	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	63386m	21.124	ug/l	
73) Bromobenzene	11.201	156	49655	20.438	ug/l	96
74) n-propylbenzene	11.305	91	232017	20.078	ug/l	99
75) 2-Chlorotoluene	11.366	91	140709	20.399	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	169566	20.489	ug/l	98
77) t-1,4-Dichloro-2-butene	11.024	75	18509	17.279	ug/l	99
78) 4-Chlorotoluene	11.457	91	159858	20.510	ug/l	100
79) tert-butylbenzene	11.719	119	166095	20.660	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	165850	20.222	ug/l	100
81) sec-Butylbenzene	11.896	105	207705	20.171	ug/l	100
82) p-Isopropyltoluene	12.012	119	170611	20.165	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	90969	20.672	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	93234	21.435	ug/l	98
85) n-Butylbenzene	12.335	91	148236	19.805	ug/l	99
86) Hexachloroethane	12.542	117	26070	18.959	ug/l	98
87) 1,2-Dichlorobenzene	12.341	146	91164	21.468	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15511	22.122	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	55963	21.304	ug/l	98
90) Hexachlorobutadiene	13.725	225	24437	20.739	ug/l	99
91) Naphthalene	13.780	128	191075	21.178	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54296	20.573	ug/l	97

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

