

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090121\
 Data File : VX024066.D
 Acq On : 01 Sep 2021 15:42
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 9/2/2021 7:20:43 PM

Quant Time: Sep 02 07:10:23 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	30401	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	164894	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155628	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	76897	32.707	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.033%	
60) 4-Bromofluorobenzene	11.085	95	78746	30.892	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.967%	
63) Toluene-d8	8.653	98	209010	29.841	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.467%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	39178	21.819	ug/l	96
3) Chloromethane	1.300	50	39737	19.615	ug/l	100
4) Vinyl Chloride	1.373	62	39682	19.584	ug/l	100
5) Bromomethane	1.605	94	27950	23.507	ug/l	100
6) Chloroethane	1.684	64	24854	19.590	ug/l	95
7) Trichlorofluoromethane	1.892	101	66459	20.309	ug/l	95
8) Diethyl Ether	2.142	74	21864	18.738	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	40302	22.046	ug/l	98
10) 1,1-Dichloroethene	2.324	96	36488	20.716	ug/l	96
11) Methyl Iodide	2.452	142	47344	19.131	ug/l	96
12) Methyl Acetate	2.709	43	56844	21.640	ug/l	96
13) Acrolein	2.239	56	27821	96.198	ug/l	99
14) Acrylonitrile	3.074	53	121117	104.225	ug/l	96
15) Acetone	2.392	58	31722	90.075	ug/l	99
16) Carbon Disulfide	2.513	76	87288	20.090	ug/l	100
17) Allyl chloride	2.666	41	67798	20.832	ug/l	88
18) Methylene Chloride	2.794	84	44584	21.523	ug/l	97
19) trans-1,2-Dichloroethene	3.099	96	39116	20.750	ug/l	93
20) Diisopropyl ether	3.769	45	140915	21.683	ug/l	97
21) 1,1-Dichloroethane	3.617	63	77993	22.033	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	47130	21.483	ug/l	95
23) tert-Butyl Alcohol	2.977	59	52362	99.299	ug/l	100
24) Methyl tert-Butyl Ether	3.123	73	135298	21.899	ug/l	97
25) Chloroform	5.098	83	81985	22.578	ug/l	99
26) Cyclohexane	5.482	56	67399	20.971	ug/l	# 97
29) 1,1-Dichloropropene	5.696	75	58533	22.792	ug/l	98
30) 2-Butanone	4.568	43	178069	103.440	ug/l	98
31) 2,2-Dichloropropane	4.483	77	61955	21.340	ug/l	95
32) 1,1,1-Trichloroethane	5.397	97	72227	23.247	ug/l	98
33) Carbon Tetrachloride	5.684	117	64434	23.844	ug/l	94
34) Benzene	6.043	78	167101	21.581	ug/l	99
35) Methacrylonitrile	4.928	41	38553	22.274	ug/l	94
36) 1,2-Dichloroethane	6.098	62	70688	23.892	ug/l	97
37) Trichloroethene	7.128	130	46076	21.903	ug/l	99
38) Methylcyclohexane	7.385	83	69640	21.317	ug/l	97
39) 1,2-Dichloropropane	7.433	63	43359	21.400	ug/l	98
40) Dibromomethane	7.586	93	32477	22.596	ug/l	95
41) Bromodichloromethane	7.823	83	59134	22.670	ug/l	100
42) Vinyl Acetate	3.733	43	620804	110.712	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.726	43	66365	20.782	ug/l	98
44) Isopropyl Acetate	6.348	43	110894	21.813	ug/l	96
45) 1,4-Dioxane	7.659	88	20189	382.704	ug/l #	91
46) Methyl methacrylate	7.695	41	53949	22.004	ug/l	94
47) n-amyl Acetate	10.847	43	96318	22.268	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	65592	21.537	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	68863	21.321	ug/l	95
50) 1,1,2-Trichloroethane	9.152	97	45157	21.754	ug/l	96
51) Ethyl methacrylate	9.122	69	68581	20.954	ug/l	97
52) 1,3-Dichloropropane	9.311	76	77055	22.613	ug/l	100
53) Dibromochloromethane	9.524	129	44619	21.387	ug/l	99
54) 1,2-Dibromoethane	9.610	107	48005	21.854	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	164990	100.938	ug/l	100
56) Bromoform	10.805	173	31184	20.831	ug/l	98
58) 4-Methyl-2-Pentanone	8.579	43	364520	108.646	ug/l	99
59) 2-Hexanone	9.433	43	282647	108.486	ug/l	98
61) Tetrachloroethene	9.274	164	46830	22.396	ug/l	97
62) Toluene	8.720	91	189401	21.572	ug/l	99
64) Chlorobenzene	10.079	112	119080	21.437	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	45212	21.984	ug/l	97
66) Ethyl Benzene	10.195	91	210902	21.707	ug/l	98
67) m/p-Xylenes	10.305	106	162254	43.181	ug/l	97
68) o-Xylene	10.646	106	77587	20.944	ug/l	94
69) Styrene	10.658	104	130794	21.425	ug/l	98
70) Isopropylbenzene	10.963	105	214113	21.983	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	71683	23.006	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	67847m	23.166	ug/l	
73) Bromobenzene	11.201	156	52159	21.996	ug/l	95
74) n-propylbenzene	11.305	91	244232	21.654	ug/l	100
75) 2-Chlorotoluene	11.366	91	151981	22.574	ug/l	98
76) 1,3,5-Trimethylbenzene	11.457	105	178652	22.117	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	20893	19.984	ug/l	97
78) 4-Chlorotoluene	11.457	91	168851	22.196	ug/l	98
79) tert-butylbenzene	11.719	119	172211	21.948	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	177158	22.132	ug/l	99
81) sec-Butylbenzene	11.896	105	222157	22.105	ug/l	100
82) p-Isopropyltoluene	12.012	119	183269	22.193	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	93622	21.797	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	92742	21.846	ug/l	96
85) n-Butylbenzene	12.335	91	159814	21.876	ug/l	100
86) Hexachloroethane	12.542	117	29148	21.718	ug/l	100
87) 1,2-Dichlorobenzene	12.341	146	92677	22.360	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.944	75	14712	21.498	ug/l	89
89) 1,2,4-Trichlorobenzene	13.591	180	54165	21.126	ug/l	99
90) Hexachlorobutadiene	13.731	225	26787	23.292	ug/l	97
91) Naphthalene	13.780	128	176310	20.022	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	54728	21.246	ug/l	99

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

