

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032621\
 Data File : VX021529.D
 Acq On : 26 Mar 2021 12:37
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

SAM
 3/30/2021 7:13:11 PM

Quant Time: Mar 26 12:56:44 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 26 12:25:44 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	13740	30.00	ug/l	# 0.00
28) 1,4-Difluorobenzene	6.829	114	82856	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	79539	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	39944	31.49	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	104.97%	
60) 4-Bromofluorobenzene	11.124	95	41331	28.74	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.80%	
63) Toluene-d8	8.694	98	104394	28.94	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.47%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.181	85	211810	217.76	ug/l	99
3) Chloromethane	1.311	50	186356	190.65	ug/l	97
4) Vinyl Chloride	1.393	62	173293	181.57	ug/l	100
5) Bromomethane	1.617	94	63473	118.18	ug/l	96
6) Chloroethane	1.693	64	97647	166.65	ug/l	97
7) Trichlorofluoromethane	1.905	101	242062	163.71	ug/l	97
8) Diethyl Ether	2.170	74	82683	167.82	ug/l	78
9) 1,1,2-Trichlorotrifluo...	2.358	101	137153	171.12	ug/l	96
10) 1,1-Dichloroethene	2.346	96	133492	172.30	ug/l	88
11) Methyl Iodide	2.487	142	140498	148.54	ug/l	91
12) Methyl Acetate	2.752	43	283714	210.25	ug/l	# 89
13) Acrolein	2.275	56	126732	773.78	ug/l	100
14) Acrylonitrile	3.123	53	423544	869.74	ug/l	98
15) Acetone	2.428	58	111135m	847.67	ug/l	
16) Carbon Disulfide	2.546	76	383143	170.72	ug/l	100
17) Allyl chloride	2.705	41	252237	156.01	ug/l	89
18) Methylene Chloride	2.828	84	153351	165.09	ug/l	# 89
19) trans-1,2-Dichloroethene	3.140	96	145563	171.19	ug/l	87
20) Diisopropyl ether	3.829	45	515162	163.98	ug/l	97
21) 1,1-Dichloroethane	3.670	63	278760	166.04	ug/l	96
22) cis-1,2-Dichloroethene	4.564	96	166747	168.90	ug/l	91
23) tert-Butyl Alcohol	3.034	59	181293	848.38	ug/l	# 100
24) Methyl tert-Butyl Ether	3.170	73	488849	168.30	ug/l	# 87
25) Chloroform	5.176	83	292686	166.52	ug/l	98
26) Cyclohexane	5.546	56	246043	165.15	ug/l	# 89
29) 1,1-Dichloropropene	5.770	75	215077	155.31	ug/l	97
30) 2-Butanone	4.640	43	630760	811.80	ug/l	92
31) 2,2-Dichloropropane	4.546	77	241465	156.66	ug/l	96
32) 1,1,1-Trichloroethane	5.464	97	264640	156.33	ug/l	97
33) Carbon Tetrachloride	5.752	117	232174	156.80	ug/l	96
34) Benzene	6.111	78	604726	152.67	ug/l	97
35) Methacrylonitrile	5.005	41	137124	156.60	ug/l	90
36) 1,2-Dichloroethane	6.164	62	257664m	151.20	ug/l	
37) Trichloroethene	7.188	130	160072	154.49	ug/l	94
38) Methylcyclohexane	7.441	83	245408	157.81	ug/l	93
39) 1,2-Dichloropropane	7.488	63	162283	151.77	ug/l	97
40) Dibromomethane	7.635	93	119675	156.62	ug/l	91
41) Bromodichloromethane	7.876	83	247513	156.14	ug/l	99
42) Vinyl Acetate	3.787	43	2176728	753.76	ug/l	# 93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.799	43	241830	156.49	ug/l	100
44) Isopropyl Acetate	6.417	43	411737m	160.15	ug/l	
45) 1,4-Dioxane	7.717	88	76937	3210.99	ug/l #	88
46) Methyl methacrylate	7.747	41	227717	164.54	ug/l	83
47) n-amyl Acetate	10.882	43	361190	162.82	ug/l	91
48) t-1,3-Dichloropropene	9.023	75	267602	164.92	ug/l	99
49) cis-1,3-Dichloropropene	8.417	75	275489	158.94	ug/l #	87
50) 1,1,2-Trichloroethane	9.194	97	160037	157.56	ug/l	98
51) Ethyl methacrylate	9.159	69	242985m	153.55	ug/l	
52) 1,3-Dichloropropane	9.353	76	271776	153.63	ug/l	99
53) Dibromochloromethane	9.565	129	187253	160.05	ug/l	98
54) 1,2-Dibromoethane	9.653	107	175345	162.27	ug/l	99
55) 2-Chloroethyl vinyl ether	8.294	63	669437	792.89	ug/l	98
56) Bromoform	10.841	173	133302	161.06	ug/l	98
58) 4-Methyl-2-Pentanone	8.623	43	1254777	775.77	ug/l #	90
59) 2-Hexanone	9.476	43	949506	780.13	ug/l	89
61) Tetrachloroethene	9.318	164	141710	137.28	ug/l	94
62) Toluene	8.765	91	674658	152.54	ug/l	98
64) Chlorobenzene	10.124	112	417769	153.75	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.206	131	165357	160.18	ug/l	99
66) Ethyl Benzene	10.235	91	774787	153.41	ug/l	99
67) m/p-Xylenes	10.341	106	562189	308.25	ug/l	95
68) o-Xylene	10.682	106	270149	153.21	ug/l	95
69) Styrene	10.694	104	459793	154.26	ug/l	95
70) Isopropylbenzene	11.000	105	747224	155.09	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.253	83	240512	154.46	ug/l	98
72) 1,2,3-Trichloropropane	11.283	75	231266m	148.54	ug/l	
73) Bromobenzene	11.241	156	177608	154.85	ug/l	93
74) n-propylbenzene	11.347	91	881155	154.07	ug/l	97
75) 2-Chlorotoluene	11.406	91	517252	150.19	ug/l	98
76) 1,3,5-Trimethylbenzene	11.488	105	635099	154.83	ug/l	97
77) t-1,4-Dichloro-2-butene	11.059	75	85340	168.70	ug/l	92
78) 4-Chlorotoluene	11.494	91	610329	152.20	ug/l	100
79) tert-butylbenzene	11.753	119	602381	158.18	ug/l	95
80) 1,2,4-Trimethylbenzene	11.794	105	626587	151.66	ug/l	99
81) sec-Butylbenzene	11.930	105	706456	155.39	ug/l	99
82) p-Isopropyltoluene	12.047	119	648965	156.48	ug/l	97
83) 1,3-Dichlorobenzene	12.012	146	321911	157.78	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	320428	156.86	ug/l	98
85) n-Butylbenzene	12.371	91	601139	157.82	ug/l	97
86) Hexachloroethane	12.577	117	114044	151.68	ug/l	96
87) 1,2-Dichlorobenzene	12.377	146	311486	155.16	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	62566	164.50	ug/l	84
89) 1,2,4-Trichlorobenzene	13.630	180	214726	170.48	ug/l	97
90) Hexachlorobutadiene	13.765	225	87132	156.93	ug/l	98
91) Naphthalene	13.818	128	716820	174.62	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	212974	172.07	ug/l	99

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

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