

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027281.D
 Acq On : 03 Mar 2022 20:13
 Operator : JC/MD
 Sample : VX0303WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0303WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 02:41:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 01:00:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	12478	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	66779	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	62639	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	25404	29.408	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.033%	
60) 4-Bromofluorobenzene	11.079	95	29118	28.695	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.633%	
63) Toluene-d8	8.653	98	78901	28.813	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.033%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	15468	19.364	ug/l	98
3) Chloromethane	1.295	50	12533	19.510	ug/l	97
4) Vinyl Chloride	1.380	62	11727	19.063	ug/l	98
5) Bromomethane	1.605	94	7232	21.876	ug/l	99
6) Chloroethane	1.691	64	7304	20.094	ug/l	94
7) Trichlorofluoromethane	1.892	101	20236	19.234	ug/l	99
8) Diethyl Ether	2.136	74	6340	18.923	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	13708	18.638	ug/l	98
10) 1,1-Dichloroethene	2.325	96	13657	19.113	ug/l	98
11) Methyl Iodide	2.459	142	14557	17.480	ug/l	97
12) Methyl Acetate	2.709	43	18262	19.643	ug/l	93
13) Acrolein	2.239	56	14202	96.036	ug/l	97
14) Acrylonitrile	3.069	53	41952	100.048	ug/l	98
15) Acetone	2.386	58	11216	93.186	ug/l	98
16) Carbon Disulfide	2.514	76	34933	18.411	ug/l	99
17) Allyl chloride	2.672	41	22337	18.807	ug/l	98
18) Methylene Chloride	2.794	84	15464	19.165	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	14774	19.115	ug/l	94
20) Diisopropyl ether	3.770	45	43841	19.202	ug/l	88
21) 1,1-Dichloroethane	3.617	63	25952	19.433	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	17061	19.221	ug/l	99
23) tert-Butyl Alcohol	2.965	59	16001	96.351	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	45684	19.264	ug/l	99
25) Chloroform	5.099	83	27548	19.355	ug/l	98
26) Cyclohexane	5.477	56	23392	19.452	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	20143	19.732	ug/l	100
30) 2-Butanone	4.562	43	57958	100.574	ug/l	100
31) 2,2-Dichloropropane	4.483	77	18249	17.782	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	24119	19.453	ug/l	99
33) Carbon Tetrachloride	5.684	117	21730	19.214	ug/l	98
34) Benzene	6.044	78	59881	20.073	ug/l	99
35) Methacrylonitrile	4.928	41	11674	19.379	ug/l	97
36) 1,2-Dichloroethane	6.092	62	21704	19.974	ug/l	99
37) Trichloroethene	7.129	130	17520	19.438	ug/l	96
38) Methylcyclohexane	7.385	83	25133	19.874	ug/l	96
39) 1,2-Dichloropropane	7.434	63	14883	20.320	ug/l	98
40) Dibromomethane	7.586	93	11352	20.727	ug/l	94
41) Bromodichloromethane	7.824	83	20352	19.281	ug/l	100
42) Vinyl Acetate	3.727	43	190852	98.797	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027281.D
 Acq On : 03 Mar 2022 20:13
 Operator : JC/MD
 Sample : VX0303WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0303WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 02:41:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 01:00:22 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	21300	19.504	ug/l	99
44) Isopropyl Acetate	6.348	43	33008	19.578	ug/l	98
45) 1,4-Dioxane	7.659	88	8113	426.490	ug/l	94
46) Methyl methacrylate	7.696	41	16384	19.589	ug/l	99
47) n-amyl Acetate	10.842	43	26147	18.818	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	19467	17.861	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	22424	18.726	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	15215	19.547	ug/l	98
51) Ethyl methacrylate	9.122	69	24170	20.017	ug/l	88
52) 1,3-Dichloropropane	9.311	76	25202	19.387	ug/l	100
53) Dibromochloromethane	9.525	129	16055	18.877	ug/l	100
54) 1,2-Dibromoethane	9.610	107	16137	19.119	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	50836	86.913	ug/l	99
56) Bromoform	10.805	173	11248	18.086	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	108955	96.156	ug/l	98
59) 2-Hexanone	9.433	43	83518	96.314	ug/l	99
61) Tetrachloroethene	9.275	164	17370	19.012	ug/l	94
62) Toluene	8.720	91	65980	19.336	ug/l	98
64) Chlorobenzene	10.079	112	40894	18.704	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	15250	18.378	ug/l	98
66) Ethyl Benzene	10.195	91	71769	18.659	ug/l	99
67) m/p-Xylenes	10.305	106	56294	37.378	ug/l	98
68) o-Xylene	10.640	106	28076	19.072	ug/l	99
69) Styrene	10.659	104	45693	18.671	ug/l	99
70) Isopropylbenzene	10.964	105	72175	18.639	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	21723	19.191	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	21475m	19.535	ug/l	
73) Bromobenzene	11.201	156	18133	18.821	ug/l	99
74) n-propylbenzene	11.305	91	81129	18.382	ug/l	100
75) 2-Chlorotoluene	11.366	91	49821	18.648	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	62896	19.337	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	5355	16.443	ug/l	95
78) 4-Chlorotoluene	11.457	91	58949	19.381	ug/l	99
79) tert-butylbenzene	11.713	119	57711	18.242	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	61850	19.086	ug/l	99
81) sec-Butylbenzene	11.890	105	73303	18.216	ug/l	99
82) p-Isopropyltoluene	12.012	119	65205	18.944	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	32727	18.150	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	33771	18.757	ug/l	98
85) n-Butylbenzene	12.335	91	48692	17.343	ug/l	99
86) Hexachloroethane	12.542	117	9685	18.105	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	32792	18.808	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4844	18.065	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	20091	17.543	ug/l	96
90) Hexachlorobutadiene	13.725	225	8185	17.022	ug/l	97
91) Naphthalene	13.774	128	69640	18.248	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	20072	17.480	ug/l	100

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

