

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071422\
 Data File : VX030056.D
 Acq On : 14 Jul 2022 13:08
 Operator : JC/MD
 Sample : VX0714WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0714WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/15/2022
 Supervised By : Mahesh Dadoda 07/15/2022

Quant Time: Jul 14 13:35:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X070822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	29356	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	165057	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	147818	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	70390	29.406	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.033%	
60) 4-Bromofluorobenzene	11.079	95	82387	29.575	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.567%	
63) Toluene-d8	8.653	98	239672	29.902	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.667%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	42700	21.271	ug/l	98
3) Chloromethane	1.288	50	41858	19.996	ug/l	99
4) Vinyl Chloride	1.374	62	45601	19.225	ug/l	100
5) Bromomethane	1.612	94	21227	21.721	ug/l	97
6) Chloroethane	1.685	64	25605	20.157	ug/l	98
7) Trichlorofluoromethane	1.886	101	61589	20.483	ug/l	99
8) Diethyl Ether	2.136	74	23962	18.737	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.325	101	42709	21.095	ug/l	94
10) 1,1-Dichloroethene	2.319	96	40156	19.425	ug/l	93
11) Methyl Iodide	2.447	142	38491	24.099	ug/l	90
12) Methyl Acetate	2.709	43	69922	20.768	ug/l	93
13) Acrolein	2.240	56	36112	91.302	ug/l	100
14) Acrylonitrile	3.069	53	146184	100.884	ug/l	98
15) Acetone	2.386	58	39985	101.587	ug/l	85
16) Carbon Disulfide	2.508	76	103002	19.087	ug/l	98
17) Allyl chloride	2.666	41	72063	19.781	ug/l	91
18) Methylene Chloride	2.788	84	48643	20.197	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	44034	19.628	ug/l	95
20) Diisopropyl ether	3.764	45	143004	19.595	ug/l	92
21) 1,1-Dichloroethane	3.611	63	77440	19.710	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	52006	19.523	ug/l	97
23) tert-Butyl Alcohol	2.989	59	59351	89.409	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	129899	19.477	ug/l	99
25) Chloroform	5.093	83	79533	20.311	ug/l	100
26) Cyclohexane	5.471	56	73084	20.076	ug/l #	92
29) 1,1-Dichloropropene	5.690	75	59202	20.967	ug/l	97
30) 2-Butanone	4.562	43	199684	104.775	ug/l	99
31) 2,2-Dichloropropane	4.477	77	53785	19.930	ug/l	94
32) 1,1,1-Trichloroethane	5.385	97	64186	21.141	ug/l	97
33) Carbon Tetrachloride	5.678	117	53936	21.151	ug/l	96
34) Benzene	6.044	78	185728	20.469	ug/l	96
35) Methacrylonitrile	4.922	41	39555	20.505	ug/l	98
36) 1,2-Dichloroethane	6.092	62	57107	20.675	ug/l #	93
37) Trichloroethene	7.129	130	50327	20.739	ug/l	100
38) Methylcyclohexane	7.379	83	76784	20.958	ug/l	96
39) 1,2-Dichloropropane	7.434	63	46488	20.126	ug/l	100
40) Dibromomethane	7.586	93	31837	20.334	ug/l	93
41) Bromodichloromethane	7.824	83	58927	21.069	ug/l	98
42) Vinyl Acetate	3.727	43	618873	101.542	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	73972	20.605	ug/l	100
44) Isopropyl Acetate	6.342	43	110166	20.200	ug/l	97
45) 1,4-Dioxane	7.684	88	26777	418.246	ug/l	95
46) Methyl methacrylate	7.696	41	52332	20.248	ug/l	93
47) n-amyl Acetate	10.842	43	88088	18.802	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	59888	19.376	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	69646	20.067	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	47895	20.648	ug/l	96
51) Ethyl methacrylate	9.116	69	70661	19.576	ug/l	96
52) 1,3-Dichloropropane	9.311	76	76678	20.551	ug/l	99
53) Dibromochloromethane	9.525	129	44259	20.615	ug/l	97
54) 1,2-Dibromoethane	9.610	107	49276	20.457	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	199682	107.318	ug/l	96
56) Bromoform	10.799	173	31231	20.780	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	380658	104.255	ug/l	99
59) 2-Hexanone	9.433	43	296247	104.901	ug/l	98
61) Tetrachloroethene	9.275	164	51097	23.022	ug/l	97
62) Toluene	8.720	91	198190	20.156	ug/l	96
64) Chlorobenzene	10.080	112	119442	20.340	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	41928	20.475	ug/l	95
66) Ethyl Benzene	10.195	91	216412	20.711	ug/l	99
67) m/p-Xylenes	10.305	106	169259	41.742	ug/l	99
68) o-Xylene	10.640	106	82121	20.338	ug/l	99
69) Styrene	10.659	104	135704	20.309	ug/l	97
70) Isopropylbenzene	10.964	105	209616	20.618	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	73265	19.817	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	66720m	20.077	ug/l	
73) Bromobenzene	11.201	156	49976	20.500	ug/l	94
74) n-propylbenzene	11.305	91	251661	20.635	ug/l	98
75) 2-Chlorotoluene	11.366	91	147976	20.605	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	174279	20.418	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	20920	18.302	ug/l	86
78) 4-Chlorotoluene	11.457	91	162467	20.156	ug/l	98
79) tert-butylbenzene	11.720	119	166225	20.018	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	172363	19.642	ug/l	97
81) sec-Butylbenzene	11.890	105	225625	20.074	ug/l	98
82) p-Isopropyltoluene	12.012	119	179101	19.793	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	92538	19.620	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	92719	19.383	ug/l	99
85) n-Butylbenzene	12.335	91	167458	19.721	ug/l	95
86) Hexachloroethane	12.543	117	29542	19.651	ug/l	86
87) 1,2-Dichlorobenzene	12.335	146	93225	20.016	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16569	19.652	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	55396	19.210	ug/l	99
90) Hexachlorobutadiene	13.725	225	22913	20.951	ug/l	99
91) Naphthalene	13.774	128	222201	19.332	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	57456	19.561	ug/l	97

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

Manual Integrations

Reviewed By :John Carlone 07/15/2022
Supervised By :Mahesh Dadoda 07/15/2022

Abundance

TIC: VX030056.D\data.ms

Time-->

Peak labels (from left to right):

- Dichlorodifluoromethane, M
- Vinyl Chloride, M
- Bromomethane, M
- Chloroform, M
- Trichlorofluoromethane, M
- Diethyl Ether, T
- Acetone, M
- Methylene Chloride, M
- Methyl Acetate, M
- tert-Butyl Alcohol, M
- Isopropyl Alcohol, M
- 1,1-Dichloroethane, M
- Disopropyl ether, T
- Ethyl Acetate, M
- 2-Butanone, M
- Bromoacetylmethane, I
- Chloroform, M
- 1,1,1-Trichloroethane, M
- Carbon tetrachloride, M
- 1,2-Dichloroethane, d4, S
- 1,2-Dichloroethane, M
- Isopropyl Acetate, M
- 1,4-Difluorobenzene, I
- Trichloroethene, M
- 1,2-Dichloropropane, M
- Dimethyl methyl methacrylate, M
- Bromochloromethane, M
- cis-1,3-Dichloropropene, T
- 4-Methyl-2-Pentanone, M
- 2-Chloroethyl vinyl ether, M
- Toluene-d8, S
- Toluene, M
- 1,1,3-Dichloropropane, M
- 1,1,2,2-Tetrafluoroethane, M
- 1,3-Dichloropropane, M
- 1,2-Dichloroethane, M
- 1,2-Dibromochloroethane, M
- 1,1,1,2-Tetrachloroethane, M
- 1,1,2,2-Tetrachloroethane, d5, I
- Ethyl Benzene, M
- nmp-Xylenes, M
- Bromofarm, M
- n-amyl Acetate, M
- 1,2,4-Dichlorobenzene, S
- 4-Bromofluorobenzene, S
- 1,2,3-Trimethylbenzene, M
- 2-Chlorotoluene, M
- tert-butylbenzene, M
- 1,2,4-Trimethylbenzene, S
- p-isopropyltoluene, M
- Hexachloroethane, T
- 1,2-Dibromo-3-Chloropropane, M
- Hexachlorocyclopentadiene, M
- 1,2,4-Trichlorobenzene, M
- Naphthalene, M
- 1,2,3-Trichlorobenzene, M