

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050522\
 Data File : VX028532.D
 Acq On : 05 May 2022 14:18
 Operator : JC/MD
 Sample : VX0505WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0505WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2022
 Supervised By : Mahesh Dadoda 05/06/2022

Quant Time: May 06 02:26:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	60423	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	329527	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	304512	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	117705	30.631	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.100%	
60) 4-Bromofluorobenzene	11.079	95	143353	30.271	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.900%	
63) Toluene-d8	8.647	98	397963	30.850	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.833%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	42148	19.714	ug/l	94
3) Chloromethane	1.295	50	35770	21.224	ug/l	98
4) Vinyl Chloride	1.374	62	45924	21.435	ug/l	96
5) Bromomethane	1.599	94	38163	21.621	ug/l	94
6) Chloroethane	1.685	64	34780	21.080	ug/l	95
7) Trichlorofluoromethane	1.886	101	99346	21.207	ug/l	100
8) Diethyl Ether	2.130	74	37747	20.430	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.331	101	55686	20.213	ug/l	97
10) 1,1-Dichloroethene	2.319	96	45446	19.950	ug/l	96
11) Methyl Iodide	2.453	142	52804	17.259	ug/l	99
12) Methyl Acetate	2.703	43	77911	21.424	ug/l	100
13) Acrolein	2.233	56	70264	95.220	ug/l	100
14) Acrylonitrile	3.062	53	174129	105.176	ug/l	99
15) Acetone	2.380	58	55657	118.699	ug/l	92
16) Carbon Disulfide	2.508	76	62037	23.043	ug/l	99
17) Allyl chloride	2.666	41	69151	20.202	ug/l	83
18) Methylene Chloride	2.788	84	59476	20.321	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	51501	20.465	ug/l	90
20) Diisopropyl ether	3.757	45	174919	20.560	ug/l	97
21) 1,1-Dichloroethane	3.611	63	103219	20.527	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	71080	20.064	ug/l	97
23) tert-Butyl Alcohol	2.953	59	86531	96.775	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	202172	20.185	ug/l	97
25) Chloroform	5.093	83	122584	20.746	ug/l	98
26) Cyclohexane	5.471	56	64949	20.430	ug/l #	93
29) 1,1-Dichloropropene	5.690	75	72365	20.647	ug/l	97
30) 2-Butanone	4.550	43	248506	112.496	ug/l	93
31) 2,2-Dichloropropane	4.477	77	85826	19.938	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	101327	20.561	ug/l	99
33) Carbon Tetrachloride	5.672	117	87064	20.761	ug/l	99
34) Benzene	6.038	78	234034	20.964	ug/l	98
35) Methacrylonitrile	4.922	41	45825	20.597	ug/l #	82
36) 1,2-Dichloroethane	6.092	62	88564	21.288	ug/l	96
37) Trichloroethene	7.129	130	69124	20.215	ug/l	94
38) Methylcyclohexane	7.379	83	77520	21.596	ug/l	94
39) 1,2-Dichloropropane	7.428	63	60903	20.754	ug/l	97
40) Dibromomethane	7.580	93	47832	21.251	ug/l	96
41) Bromodichloromethane	7.824	83	92816	21.730	ug/l	97
42) Vinyl Acetate	3.721	43	728597	106.425	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050522\
 Data File : VX028532.D
 Acq On : 05 May 2022 14:18
 Operator : JC/MD
 Sample : VX0505WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0505WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/06/2022
 Supervised By : Mahesh Dadoda 05/06/2022

Quant Time: May 06 02:26:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	86508	20.927	ug/l	99
44) Isopropyl Acetate	6.336	43	134134	20.125	ug/l	98
45) 1,4-Dioxane	7.659	88	38774	446.742	ug/l	91
46) Methyl methacrylate	7.696	41	63742	20.926	ug/l	79
47) n-amyl Acetate	10.842	43	117073	20.288	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	89757	20.008	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	97789	20.287	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	73641	20.806	ug/l	98
51) Ethyl methacrylate	9.116	69	103322	20.400	ug/l	95
52) 1,3-Dichloropropane	9.311	76	115526	20.863	ug/l	100
53) Dibromochloromethane	9.525	129	76942	21.248	ug/l	100
54) 1,2-Dibromoethane	9.610	107	77147	20.952	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	265099	99.694	ug/l	99
56) Bromoform	10.799	173	56881	20.378	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	477828	107.867	ug/l	94
59) 2-Hexanone	9.433	43	371102	108.243	ug/l	94
61) Tetrachloroethene	9.275	164	68550	20.407	ug/l	98
62) Toluene	8.720	91	276093	20.905	ug/l	98
64) Chlorobenzene	10.080	112	191851	20.591	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	73418	20.175	ug/l	98
66) Ethyl Benzene	10.195	91	324755	20.857	ug/l	99
67) m/p-Xylenes	10.305	106	259170	41.522	ug/l	98
68) o-Xylene	10.640	106	131904	20.794	ug/l	96
69) Styrene	10.659	104	217782	20.556	ug/l	98
70) Isopropylbenzene	10.964	105	347216	21.039	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	120458	21.497	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	106105m	21.281	ug/l	
73) Bromobenzene	11.201	156	88643	19.920	ug/l	95
74) n-propylbenzene	11.305	91	395395	21.487	ug/l	100
75) 2-Chlorotoluene	11.366	91	240151	21.067	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	294508	21.282	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	29230	19.362	ug/l	90
78) 4-Chlorotoluene	11.457	91	274103	21.259	ug/l	97
79) tert-butylbenzene	11.713	119	294369	20.967	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	292378	21.048	ug/l	98
81) sec-Butylbenzene	11.890	105	364594	21.908	ug/l	99
82) p-Isopropyltoluene	12.012	119	309448	21.422	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	173687	20.810	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	174143	20.522	ug/l	99
85) n-Butylbenzene	12.335	91	252716	21.677	ug/l	98
86) Hexachloroethane	12.543	117	49559	21.803	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	174548	20.766	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	24509	20.477	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	105153	20.028	ug/l	99
90) Hexachlorobutadiene	13.725	225	45685	20.524	ug/l	99
91) Naphthalene	13.774	128	361323	19.693	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	107033	20.337	ug/l	98

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

