

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072324\
 Data File : VX042459.D
 Acq On : 23 Jul 2024 09:33
 Operator : JC/MD
 Sample : VX0723WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/24/2024
 Supervised By : Mahesh Dadoda 07/24/2024

Quant Time: Jul 23 15:08:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	29725	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	167426	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	156630	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64189	30.147	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 100.500%		
60) 4-Bromofluorobenzene	11.079	95	70692	29.008	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 96.700%		
63) Toluene-d8	8.647	98	205496	30.202	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.667%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	33381	18.735	ug/l	99
3) Chloromethane	1.301	50	34761	18.658	ug/l	99
4) Vinyl Chloride	1.374	62	33026	17.844	ug/l	98
5) Bromomethane	1.593	94	17337	18.660	ug/l	95
6) Chloroethane	1.666	64	15210	19.068	ug/l	95
7) Trichlorofluoromethane	1.868	101	36412	15.724	ug/l	98
8) Diethyl Ether	2.136	74	15432	15.890	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	28777	15.956	ug/l	99
10) 1,1-Dichloroethene	2.306	96	26606	15.351	ug/l	92
11) Methyl Iodide	2.441	142	26856	13.705	ug/l	94
12) Methyl Acetate	2.709	43	49610	17.416	ug/l	99
13) Acrolein	2.239	56	17824	49.811	ug/l	99
14) Acrylonitrile	3.069	53	83286	77.858	ug/l	100
15) Acetone	2.392	58	24968	78.469	ug/l	98
16) Carbon Disulfide	2.502	76	47164	13.766	ug/l	100
17) Allyl chloride	2.654	41	42553	15.431	ug/l	96
18) Methylene Chloride	2.782	84	30323	15.320	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	27008	15.427	ug/l	99
20) Diisopropyl ether	3.764	45	93605	16.108	ug/l	94
21) 1,1-Dichloroethane	3.605	63	52220	15.830	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	41028	18.714	ug/l	96
23) tert-Butyl Alcohol	2.995	59	33224	81.497	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	91482	15.814	ug/l	98
25) Chloroform	5.086	83	66435	19.486	ug/l	98
26) Cyclohexane	5.464	56	51332	18.789	ug/l #	100
29) 1,1-Dichloropropene	5.684	75	42013	19.244	ug/l	96
30) 2-Butanone	4.568	43	150710	103.394	ug/l	99
31) 2,2-Dichloropropane	4.471	77	49520	19.730	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	55122	19.547	ug/l	99
33) Carbon Tetrachloride	5.672	117	46504	18.883	ug/l	99
34) Benzene	6.031	78	140053	19.537	ug/l	98
35) Methacrylonitrile	4.922	41	28898	20.090	ug/l	96
36) 1,2-Dichloroethane	6.086	62	47342	20.362	ug/l	98
37) Trichloroethene	7.123	130	37164	19.278	ug/l	96
38) Methylcyclohexane	7.373	83	53824	19.172	ug/l	99
39) 1,2-Dichloropropane	7.428	63	34680	19.680	ug/l	100
40) Dibromomethane	7.580	93	24399	19.182	ug/l	99
41) Bromodichloromethane	7.824	83	45854	19.220	ug/l	98
42) Vinyl Acetate	3.721	43	381863	80.973	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	50886	19.671	ug/l	99
44) Isopropyl Acetate	6.342	43	79992	19.685	ug/l	97
45) 1,4-Dioxane	7.671	88	17974	394.806	ug/l #	82
46) Methyl methacrylate	7.696	41	38675	19.529	ug/l	98
47) n-amyl Acetate	10.842	43	67782	18.772	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	43984	18.493	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	51278	19.182	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	36774	19.714	ug/l	97
51) Ethyl methacrylate	9.116	69	55858	19.148	ug/l	96
52) 1,3-Dichloropropane	9.311	76	58840	19.418	ug/l	99
53) Dibromochloromethane	9.519	129	39058	19.054	ug/l	99
54) 1,2-Dibromoethane	9.610	107	38099	19.638	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	140171	99.135	ug/l	99
56) Bromoform	10.799	173	29684	17.969	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	285226	103.327	ug/l	98
59) 2-Hexanone	9.433	43	219197	101.382	ug/l	98
61) Tetrachloroethene	9.275	164	38147	20.076	ug/l	98
62) Toluene	8.720	91	151314	19.323	ug/l	98
64) Chlorobenzene	10.079	112	100404	19.000	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	36734	19.318	ug/l	97
66) Ethyl Benzene	10.195	91	162959	19.096	ug/l	99
67) m/p-Xylenes	10.299	106	131514	38.547	ug/l	100
68) o-Xylene	10.640	106	64528	19.004	ug/l	99
69) Styrene	10.653	104	108582	19.014	ug/l	99
70) Isopropylbenzene	10.963	105	168050	19.412	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	58623	19.678	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	46656m	19.724	ug/l	
73) Bromobenzene	11.201	156	46604	18.837	ug/l	99
74) n-propylbenzene	11.305	91	184932	19.336	ug/l	98
75) 2-Chlorotoluene	11.366	91	117507	19.537	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	138447	19.142	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	15339	17.681	ug/l	99
78) 4-Chlorotoluene	11.451	91	128595	19.193	ug/l	99
79) tert-butylbenzene	11.713	119	145365	18.827	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	139684	19.194	ug/l	97
81) sec-Butylbenzene	11.890	105	173218	18.987	ug/l	99
82) p-Isopropyltoluene	12.006	119	151326	19.141	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	84263	18.961	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	82982	18.799	ug/l	99
85) n-Butylbenzene	12.329	91	113896	18.343	ug/l	98
86) Hexachloroethane	12.536	117	24177	17.985	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	85193	18.967	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11383	18.651	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	53607	17.629	ug/l	100
90) Hexachlorobutadiene	13.725	225	27811	18.429	ug/l	96
91) Naphthalene	13.774	128	168375	18.568	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	56674	18.094	ug/l	98

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

