

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072324\
 Data File : VX042458.D
 Acq On : 23 Jul 2024 09:08
 Operator : JC/MD
 Sample : VX0723WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBS01

Manual Integrations
 APPROVED

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

Quant Time: Jul 23 15:08:33 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	28987	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	160164	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	148480	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	63016	30.349	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.167%			
60) 4-Bromofluorobenzene	11.079	95	68147	29.498	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.333%			
63) Toluene-d8	8.647	98	198268	30.739	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.467%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	32262	18.568	ug/l	95
3) Chloromethane	1.300	50	32407	17.837	ug/l	99
4) Vinyl Chloride	1.374	62	30419	16.854	ug/l	100
5) Bromomethane	1.599	94	15438	17.039	ug/l	96
6) Chloroethane	1.666	64	15503	19.930	ug/l	98
7) Trichlorofluoromethane	1.873	101	35239	15.605	ug/l	95
8) Diethyl Ether	2.136	74	18094	19.105	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	33246	18.904	ug/l	99
10) 1,1-Dichloroethene	2.312	96	31308	18.524	ug/l	97
11) Methyl Iodide	2.447	142	32470	16.992	ug/l	97
12) Methyl Acetate	2.709	43	64855	23.348	ug/l	100
13) Acrolein	2.239	56	24596	70.486	ug/l	97
14) Acrylonitrile	3.068	53	109228	104.709	ug/l	99
15) Acetone	2.392	58	29558	95.259	ug/l	100
16) Carbon Disulfide	2.501	76	55509	16.614	ug/l	100
17) Allyl chloride	2.660	41	51645	19.205	ug/l	95
18) Methylene Chloride	2.788	84	35912	18.605	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	31349	18.363	ug/l	95
20) Diisopropyl ether	3.763	45	111411	19.660	ug/l	90
21) 1,1-Dichloroethane	3.605	63	60757	18.887	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	39872	18.650	ug/l	97
23) tert-Butyl Alcohol	2.989	59	43069	108.336	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	109274	19.371	ug/l	99
25) Chloroform	5.092	83	63578	19.123	ug/l	95
26) Cyclohexane	5.470	56	48211	18.096	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	40475	19.380	ug/l	95
30) 2-Butanone	4.568	43	151637	108.747	ug/l	99
31) 2,2-Dichloropropane	4.477	77	45638	19.008	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	53444	19.811	ug/l	99
33) Carbon Tetrachloride	5.672	117	45227	19.197	ug/l	99
34) Benzene	6.037	78	134139	19.560	ug/l	99
35) Methacrylonitrile	4.928	41	29955	21.769	ug/l	97
36) 1,2-Dichloroethane	6.086	62	45496	20.455	ug/l	97
37) Trichloroethene	7.123	130	35181	19.076	ug/l	92
38) Methylcyclohexane	7.379	83	50200	18.692	ug/l	98
39) 1,2-Dichloropropane	7.427	63	33892	20.104	ug/l	98
40) Dibromomethane	7.580	93	24435	20.081	ug/l	98
41) Bromodichloromethane	7.824	83	44478	19.489	ug/l	97
42) Vinyl Acetate	3.727	43	458649	101.665	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	51613	20.857	ug/l	98
44) Isopropyl Acetate	6.348	43	79955	20.568	ug/l	98
45) 1,4-Dioxane	7.671	88	17572m	403.477	ug/l	
46) Methyl methacrylate	7.696	41	38229	20.179	ug/l	98
47) n-amyl Acetate	10.841	43	64864	18.778	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	42264	18.576	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	49673	19.424	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	35915	20.126	ug/l	98
51) Ethyl methacrylate	9.116	69	53810	19.282	ug/l	95
52) 1,3-Dichloropropane	9.311	76	57930	19.985	ug/l	99
53) Dibromochloromethane	9.518	129	38294	19.528	ug/l	99
54) 1,2-Dibromoethane	9.610	107	37922	20.433	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	141600	104.686	ug/l	99
56) Bromoform	10.799	173	29107	18.418	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	288058	110.080	ug/l	98
59) 2-Hexanone	9.433	43	216107	105.439	ug/l	100
61) Tetrachloroethene	9.275	164	37071	20.581	ug/l	99
62) Toluene	8.720	91	145054	19.540	ug/l	100
64) Chlorobenzene	10.079	112	95603	19.085	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	33802	18.751	ug/l	99
66) Ethyl Benzene	10.195	91	153849	19.018	ug/l	99
67) m/p-Xylenes	10.299	106	123720	38.253	ug/l	99
68) o-Xylene	10.640	106	60524	18.803	ug/l	99
69) Styrene	10.659	104	101143	18.683	ug/l	99
70) Isopropylbenzene	10.963	105	157683	19.214	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	56501	20.007	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	45229m	20.171	ug/l	
73) Bromobenzene	11.195	156	43921	18.727	ug/l	99
74) n-propylbenzene	11.305	91	171742	18.943	ug/l	98
75) 2-Chlorotoluene	11.366	91	109440	19.195	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	130812	19.079	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14953	18.182	ug/l	95
78) 4-Chlorotoluene	11.457	91	121257	19.092	ug/l	99
79) tert-butylbenzene	11.713	119	137754	18.821	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	130296	18.886	ug/l	98
81) sec-Butylbenzene	11.890	105	163723	18.931	ug/l	99
82) p-Isopropyltoluene	12.006	119	137386	18.332	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	76990	18.276	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	78355	18.726	ug/l	98
85) n-Butylbenzene	12.335	91	104572	17.766	ug/l	98
86) Hexachloroethane	12.536	117	22967	18.022	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	79283	18.620	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11552	19.967	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	49497	17.171	ug/l	100
90) Hexachlorobutadiene	13.725	225	25421	17.770	ug/l	98
91) Naphthalene	13.774	128	159375	18.541	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	53622	18.059	ug/l	100

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

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