

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036694.D
 Acq On : 28 Jul 2023 09:54
 Operator : JC/MD
 Sample : VX0728WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0728WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/28/2023
 Supervised By :Mahesh
 Dadoda

Quant Time: Jul 28 16:15:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	28339	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	161460	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	146589	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	67372	28.644	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.467%
60) 4-Bromofluorobenzene	11.079	95	72581	30.524	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.733%
63) Toluene-d8	8.647	98	196430	29.120	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.067%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	34499	21.788	ug/l	100
3) Chloromethane	1.307	50	31560	14.569	ug/l	96
4) Vinyl Chloride	1.374	62	33124	14.829	ug/l	99
5) Bromomethane	1.605	94	22296m	9.746	ug/l	
6) Chloroethane	1.685	64	20543	13.511	ug/l	95
7) Trichlorofluoromethane	1.886	101	55322	15.266	ug/l	96
8) Diethyl Ether	2.136	74	20589	13.674	ug/l	86
9) 1,1,2-Trichlorotrifluo...	2.331	101	32157	19.599	ug/l	96
10) 1,1-Dichloroethene	2.319	96	30736	18.534	ug/l	95
11) Methyl Iodide	2.453	142	33430	17.690	ug/l	99
12) Methyl Acetate	2.703	43	72902	18.702	ug/l	97
13) Acrolein	2.239	56	37796	118.193	ug/l	95
14) Acrylonitrile	3.062	53	102326	93.649	ug/l	98
15) Acetone	2.380	58	30506	98.615	ug/l	95
16) Carbon Disulfide	2.508	76	80203	19.934	ug/l	99
17) Allyl chloride	2.666	41	56713	19.278	ug/l	93
18) Methylene Chloride	2.788	84	36011	18.034	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	34239	18.889	ug/l	97
20) Diisopropyl ether	3.757	45	113148	18.871	ug/l #	88
21) 1,1-Dichloroethane	3.611	63	63214	18.084	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	40079	18.371	ug/l	98
23) tert-Butyl Alcohol	2.959	59	55838	110.048	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	119664	19.842	ug/l	99
25) Chloroform	5.086	83	67008	18.541	ug/l	99
26) Cyclohexane	5.471	56	53998	20.135	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	47594	19.548	ug/l	100
30) 2-Butanone	4.556	43	149989	97.838	ug/l	98
31) 2,2-Dichloropropane	4.471	77	57827	21.658	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	58516	20.226	ug/l	98
33) Carbon Tetrachloride	5.672	117	51539	20.881	ug/l	96
34) Benzene	6.038	78	140878	18.771	ug/l	99
35) Methacrylonitrile	4.916	41	31193	19.611	ug/l	97
36) 1,2-Dichloroethane	6.086	62	53928	18.714	ug/l	98
37) Trichloroethene	7.129	130	36804	18.633	ug/l	94
38) Methylcyclohexane	7.379	83	60591	21.391	ug/l	97
39) 1,2-Dichloropropane	7.428	63	36593	17.988	ug/l	100
40) Dibromomethane	7.580	93	27889	18.927	ug/l	97
41) Bromodichloromethane	7.824	83	53862	20.141	ug/l	99
42) Vinyl Acetate	3.721	43	455005	98.262	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	57491	19.266	ug/l	99
44) Isopropyl Acetate	6.336	43	95708	20.111	ug/l	98
45) 1,4-Dioxane	7.659	88	21508	398.158	ug/l #	1
46) Methyl methacrylate	7.690	41	45449	19.982	ug/l	91
47) n-amyl Acetate	10.842	43	78771	19.515	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	60056	20.474	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	63668	20.094	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	38574	19.284	ug/l	97
51) Ethyl methacrylate	9.116	69	63101	20.093	ug/l	97
52) 1,3-Dichloropropane	9.305	76	65318	19.349	ug/l	98
53) Dibromochloromethane	9.519	129	41752	20.679	ug/l	99
54) 1,2-Dibromoethane	9.610	107	41531	19.764	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	159005	94.143	ug/l	98
56) Bromoform	10.799	173	30296	21.568	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	285911	94.321	ug/l	97
59) 2-Hexanone	9.427	43	217302	94.230	ug/l	98
61) Tetrachloroethene	9.275	164	31827	18.127	ug/l	96
62) Toluene	8.720	91	154778	18.818	ug/l	97
64) Chlorobenzene	10.079	112	95799	18.709	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	37207	20.120	ug/l	99
66) Ethyl Benzene	10.195	91	173579	19.419	ug/l	99
67) m/p-Xylenes	10.299	106	131069	37.612	ug/l	97
68) o-Xylene	10.640	106	64935	18.775	ug/l	95
69) Styrene	10.653	104	106129	18.926	ug/l	98
70) Isopropylbenzene	10.963	105	171633	19.925	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	59290	18.858	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	50327m	17.274	ug/l	
73) Bromobenzene	11.195	156	39680	18.635	ug/l	99
74) n-propylbenzene	11.305	91	199865	19.713	ug/l	98
75) 2-Chlorotoluene	11.366	91	120180	19.493	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	143364	19.368	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	20762	21.702	ug/l	86
78) 4-Chlorotoluene	11.457	91	135281	19.271	ug/l	99
79) tert-butylbenzene	11.713	119	141866	20.193	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	143393	19.551	ug/l	99
81) sec-Butylbenzene	11.890	105	178674	20.205	ug/l	99
82) p-Isopropyltoluene	12.012	119	147839	20.095	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	73906	18.660	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	74260	18.816	ug/l	100
85) n-Butylbenzene	12.329	91	130103	19.427	ug/l	99
86) Hexachloroethane	12.536	117	27921	22.922	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	74059	18.642	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14005	19.811	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	44616	17.809	ug/l	99
90) Hexachlorobutadiene	13.725	225	17965	19.743	ug/l	94
91) Naphthalene	13.774	128	160066	18.209	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	45216	17.881	ug/l	99

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

