

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036532.D
 Acq On : 13 Jul 2023 17:54
 Operator : JC/MD
 Sample : VX0714WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0714WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 04:37:04 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	30829	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	164487	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	153943	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	73773	28.832	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.100%	
60) 4-Bromofluorobenzene	11.079	95	74423	29.804	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.333%	
63) Toluene-d8	8.653	98	207975	29.359	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.867%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	23523	13.656	ug/l	100
3) Chloromethane	1.301	50	41980	17.814	ug/l	96
4) Vinyl Chloride	1.374	62	38686	15.920	ug/l	96
5) Bromomethane	1.611	94	44798	18.001	ug/l	92
6) Chloroethane	1.685	64	27611	16.693	ug/l	93
7) Trichlorofluoromethane	1.886	101	62918	15.959	ug/l	99
8) Diethyl Ether	2.136	74	29915	18.263	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	26203	14.680	ug/l	98
10) 1,1-Dichloroethene	2.319	96	29238	16.206	ug/l	94
11) Methyl Iodide	2.453	142	38682	18.816	ug/l	99
12) Methyl Acetate	2.709	43	80913	19.081	ug/l	97
13) Acrolein	2.239	56	38533	110.765	ug/l	92
14) Acrylonitrile	3.068	53	112930	95.006	ug/l	96
15) Acetone	2.386	58	32116	95.434	ug/l	98
16) Carbon Disulfide	2.514	76	72614	16.590	ug/l	98
17) Allyl chloride	2.666	41	56382	17.617	ug/l	94
18) Methylene Chloride	2.788	84	38817	17.869	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	33507	16.992	ug/l	99
20) Diisopropyl ether	3.764	45	121827	18.677	ug/l #	95
21) 1,1-Dichloroethane	3.611	63	68240	17.945	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	42938	18.092	ug/l	99
23) tert-Butyl Alcohol	2.983	59	52152	94.482	ug/l #	1
24) Methyl tert-Butyl Ether	3.117	73	123117	18.766	ug/l	99
25) Chloroform	5.099	83	71893	18.286	ug/l	97
26) Cyclohexane	5.471	56	43289	14.838	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	44469	17.928	ug/l	99
30) 2-Butanone	4.562	43	161384	103.333	ug/l	100
31) 2,2-Dichloropropane	4.477	77	48720	17.911	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	53658	18.205	ug/l	99
33) Carbon Tetrachloride	5.678	117	43054	17.122	ug/l	99
34) Benzene	6.037	78	149873	19.602	ug/l	98
35) Methacrylonitrile	4.922	41	31910	19.693	ug/l	99
36) 1,2-Dichloroethane	6.086	62	59783	20.365	ug/l	100
37) Trichloroethene	7.129	130	38174	18.971	ug/l	100
38) Methylcyclohexane	7.385	83	45626	15.812	ug/l	97
39) 1,2-Dichloropropane	7.434	63	40399	19.493	ug/l	100
40) Dibromomethane	7.580	93	30364	20.227	ug/l	98
41) Bromodichloromethane	7.824	83	52343	19.212	ug/l	95
42) Vinyl Acetate	3.721	43	485181	102.850	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	63421	20.862	ug/l	98
44) Isopropyl Acetate	6.342	43	99766	20.578	ug/l	99
45) 1,4-Dioxane	7.684	88	23000	417.943	ug/l #	1
46) Methyl methacrylate	7.696	41	48564	20.959	ug/l	93
47) n-amyl Acetate	10.842	43	83672	20.347	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	58391	19.540	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	63333	19.620	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	41587	20.408	ug/l	95
51) Ethyl methacrylate	9.116	69	65820	20.573	ug/l	97
52) 1,3-Dichloropropane	9.311	76	70622	20.535	ug/l	99
53) Dibromochloromethane	9.525	129	40667	19.771	ug/l	99
54) 1,2-Dibromoethane	9.610	107	45195	21.112	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	181705	105.603	ug/l	99
56) Bromoform	10.799	173	28378	19.830	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	323764	101.706	ug/l	100
59) 2-Hexanone	9.433	43	245936	101.553	ug/l	99
61) Tetrachloroethene	9.275	164	32318	17.528	ug/l	98
62) Toluene	8.720	91	162409	18.803	ug/l	99
64) Chlorobenzene	10.079	112	100871	18.759	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	37641	19.382	ug/l	98
66) Ethyl Benzene	10.195	91	171699	18.291	ug/l	97
67) m/p-Xylenes	10.305	106	133891	36.586	ug/l	98
68) o-Xylene	10.640	106	68863	18.960	ug/l	98
69) Styrene	10.659	104	111523	18.938	ug/l	99
70) Isopropylbenzene	10.963	105	162332	17.945	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	66290	20.077	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	61521m	20.108	ug/l	
73) Bromobenzene	11.201	156	43766	19.572	ug/l	97
74) n-propylbenzene	11.305	91	187680	17.627	ug/l	99
75) 2-Chlorotoluene	11.366	91	120482	18.608	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	141451	18.197	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	19078	18.989	ug/l	96
78) 4-Chlorotoluene	11.457	91	137660	18.673	ug/l	99
79) tert-butylbenzene	11.713	119	130270	17.657	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	142391	18.487	ug/l	99
81) sec-Butylbenzene	11.890	105	157236	16.932	ug/l	99
82) p-Isopropyltoluene	12.012	119	133145	17.233	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	78391	18.847	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	78234	18.876	ug/l	98
85) n-Butylbenzene	12.335	91	112726	16.028	ug/l	98
86) Hexachloroethane	12.542	117	21281	16.636	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	80874	19.385	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13863	18.673	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	45984	17.478	ug/l	98
90) Hexachlorobutadiene	13.725	225	14859	15.549	ug/l	98
91) Naphthalene	13.774	128	174158	18.866	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	48776	18.367	ug/l	96

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

