

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093019\
 Data File : VV013019.D
 Acq On : 30 Sep 2019 15:51
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:17 PM

Quant Time: Oct 02 08:45:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Sep 30 15:00:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	821847	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	803155	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	416412	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	272072	23.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.56%
7) Chloroethane-d5	1.58	69	221594	22.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.92%
11) 1,1-Dichloroethene-d2	2.13	63	372473	18.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.60%
21) 2-Butanone-d5	3.94	46	184350	44.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.82%
24) Chloroform-d	4.40	84	492779	22.26	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.04%
26) 1,2-Dichloroethane-d4	5.08	65	288291	22.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.56%
32) Benzene-d6	5.09	84	1039860	23.47	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.88%
36) 1,2-Dichloropropane-d6	6.11	67	325457	23.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.72%
41) Toluene-d8	7.36	98	958097	23.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.72%
43) trans-1,3-Dichloropropene-	7.66	79	131710	22.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.40%
47) 2-Hexanone-d5	8.13	63	128019	43.72	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.44%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	284111	21.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.48%
66) 1,2-Dichlorobenzene-d4	11.67	152	377220	23.49	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.96%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	13929	1.582	ug/L	99
3) Chloromethane	1.25	50	19906	1.776	ug/L	99
5) Vinyl chloride	1.32	62	22308	1.931	ug/L #	81
6) Bromomethane	1.53	94	13491	1.818	ug/L	99
8) Chloroethane	1.60	64	14033	1.922	ug/L	96
9) Trichlorofluoromethane	1.77	101	32060	2.049	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	23174	2.311	ug/L	88
12) 1,1-Dichloroethene	2.14	96	21843	2.319	ug/L #	1
13) Acetone	2.20	43	20646	4.719	ug/L	96
14) Carbon disulfide	2.32	76	54810	1.896	ug/L	99
15) Methyl Acetate	2.46	43	11857	1.756	ug/L	99
16) Methylene chloride	2.53	84	38870	2.888	ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	21986	1.980	ug/L	97
18) Methyl tert-butyl Ether	2.80	73	52999	1.898	ug/L	98
19) 1,1-Dichloroethane	3.23	63	41466	2.035	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	23937	1.938	ug/L	90
22) 2-Butanone	4.03	43	18501m	3.858	ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	11444	1.890	ug/L	97
25) Chloroform	4.42	83	48695	2.292	ug/L	98
27) 1,2-Dichloroethane	5.18	62	29647	2.030	ug/L	99
29) Cyclohexane	4.72	56	34299	1.940	ug/L	95
30) 1,1,1-Trichloroethane	4.65	97	32699	1.993	ug/L	98
31) Carbon tetrachloride	4.87	117	29375	1.989	ug/L	99
33) Benzene	5.14	78	94456	2.057	ug/L	100
34) Trichloroethene	5.96	95	25593	2.057	ug/L	94
35) Methylcyclohexane	6.17	83	36329	1.861	ug/L	98
37) 1,2-Dichloropropane	6.22	63	23970	2.034	ug/L #	97
38) Bromodichloromethane	6.55	83	30249	1.967	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	33167	1.870	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	35464	3.766	ug/L	98
42) Toluene	7.43	91	102984	2.109	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	27890m	1.915	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	19985	2.000	ug/L	97
46) Tetrachloroethene	8.02	164	21556	2.094	ug/L	96
48) 2-Hexanone	8.19	43	26866	3.919	ug/L #	94
49) Dibromochloromethane	8.29	129	21803	1.913	ug/L	100
50) 1,2-Dibromoethane	8.39	107	18134	1.839	ug/L	90
51) Chlorobenzene	8.92	112	66619	2.011	ug/L	97
52) Ethylbenzene	9.05	91	101202	1.886	ug/L	97
53) m,p-Xylene	9.18	106	37397	1.824	ug/L	92
54) o-Xylene	9.59	106	35140	1.791	ug/L	91
55) Styrene	9.60	104	57236	1.666	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	24720	2.028	ug/L	98
59) Bromoform	9.77	173	13180	1.848	ug/L	97
60) Isopropylbenzene	9.97	105	89838	1.790	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	19288	2.035	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	68310	1.689	ug/L	100
63) 1,2,4-Trimethylbenzene	10.95	105	67127	1.653	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	53054	2.014	ug/L	99
65) 1,4-Dichlorobenzene	11.31	146	57903	2.093	ug/L	100
67) 1,2-Dichlorobenzene	11.68	146	52570	2.090	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.47	75	3760	1.829	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	43035	2.029	ug/L	100
70) 1,2,4-trichlorobenzene	13.31	180	34489	1.881	ug/L	99
71) Naphthalene	13.55	128	57218	1.602	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	34463	1.948	ug/L	97

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

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