

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034300.D
 Acq On : 16 Oct 2019 14:11
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:03:52 PM

Quant Time: Oct 16 17:06:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1212073	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2296474	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2322712	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1998817	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	188692	1.054	ppbv 95
3) Chlorodifluoromethane	2.97	51	149308	1.051	ppbv 99
4) Chloromethane	3.12	50	85704	1.026	ppbv 95
5) Vinyl Chloride	3.24	62	74091	0.971	ppbv 97
6) Bromomethane	3.46	94	39459	1.108	ppbv 99
7) Chloroethane	3.55	64	27493	1.031	ppbv 99
8) Dichlorotetrafluoroethane	3.17	85	195437	1.237	ppbv 95
9) Propene	2.99	41	61968	0.884	ppbv 96
10) Heptane	8.17	43	162001	0.887	ppbv 95
11) Trichlorofluoromethane	3.94	101	206051	1.264	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	131431	1.232	ppbv 98
13) Ethanol	3.60	45	17478m	1.029	ppbv
14) Bromoethene	3.73	108	50048	1.148	ppbv 95
15) Acetone	3.85	43	192256	1.183	ppbv 98
16) 1,3-Butadiene	3.31	39	73706	1.040	ppbv 100
17) tert-Butyl alcohol	4.30	59	125678	1.221	ppbv 97
18) 1,1-Dichloroethene	4.29	96	55736	1.198	ppbv 95
19) Isopropyl Alcohol	3.97	45	116698m	1.168	ppbv
20) Methylene Chloride	4.35	84	70968	1.515	ppbv 93
21) Allyl Chloride	4.41	41	94065	1.025	ppbv 98
22) trans-1,2-Dichloroethene	4.90	96	56353	1.211	ppbv 95
23) Vinyl Acetate	5.09	43	215362	0.900	ppbv # 96
24) 1,1-Dichloroethane	5.02	63	164765	1.022	ppbv 99
25) Ethyl Acetate	5.70	43	297679	0.969	ppbv 99
26) Hexane	5.71	57	133773m	1.047	ppbv
27) Carbon Disulfide	4.56	76	116079	0.985	ppbv # 92
28) Methyl tert-Butyl Ether	5.05	73	192443	1.014	ppbv 96
29) Chloroform	5.77	83	196889	1.078	ppbv 92
30) Cyclohexane	7.17	84	87640m	0.950	ppbv
31) cis-1,2-Dichloroethene	5.56	61	125523	0.964	ppbv 89
32) 1,1,1-Trichloroethane	6.54	97	184467	1.047	ppbv 97
34) 2-Butanone	5.26	43	189013	0.806	ppbv 100
35) Carbon Tetrachloride	7.05	117	192271	1.008	ppbv 92
36) Benzene	6.92	78	228556	0.901	ppbv 98
37) 1,2-Dichloroethane	6.33	62	168878	0.936	ppbv 99
38) Trichloroethene	7.88	130	86639	0.956	ppbv 95
39) 1,2-Dichloropropane	7.65	63	95506	0.838	ppbv 87
40) 1,4-Dioxane	7.90	88	38511m	1.044	ppbv
41) Tetrahydrofuran	6.08	42	100252m	0.759	ppbv
42) Bromodichloromethane	7.83	83	199878	0.923	ppbv # 97
43) Methyl Methacrylate	8.05	69	90949m	0.868	ppbv

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	427395	0.875	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	94846	0.766	ppbv	94
46) cis-1,3-Dichloropropene	8.75	75	115767	0.777	ppbv	92
47) 1,1,2-Trichloroethane	9.53	97	95007	0.928	ppbv	88
48) Dibromochloromethane	10.36	129	147205	0.908	ppbv	99
49) Bromoform	13.11	173	131849	1.005	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	273413	0.801	ppbv	97
51) 2-Hexanone	10.20	43	215836m	0.754	ppbv	
52) Tetrachloroethene	11.29	164	84563m	1.009	ppbv	
53) Toluene	9.86	91	241544	0.871	ppbv	99
54) 1,2-Dibromoethane	10.67	107	140997m	0.927	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.19	131	112762m	1.089	ppbv	
57) Chlorobenzene	12.21	112	212067m	1.049	ppbv	
58) Ethyl Benzene	12.77	91	344504	0.919	ppbv #	87
59) m/p-Xylene	13.03	91	602320m	1.940	ppbv	
60) o-Xylene	13.76	91	299741	0.966	ppbv	96
61) Styrene	13.60	104	203295	0.914	ppbv	98
62) Isopropylbenzene	14.74	105	403606m	1.004	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.75	83	225857	0.887	ppbv	98
64) n-propylbenzene	15.63	120	101818m	1.002	ppbv	
65) tert-Butylbenzene	16.82	119	352303m	1.003	ppbv	
66) Benzyl Chloride	17.07	91	109114m	0.878	ppbv	
67) sec-Butylbenzene	17.37	105	507109m	1.010	ppbv	
69) p-Isopropyltoluene	17.73	119	401961	0.989	ppbv	98
70) n-Butylbenzene	18.63	91	442677	0.935	ppbv	97
71) 2-Chlorotoluene	15.53	91	297194	0.905	ppbv	98
72) 4-Ethyltoluene	15.91	105	337140	0.961	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	339179	1.001	ppbv	98
74) 1,2,4-Trimethylbenzene	16.84	105	357193m	0.993	ppbv	
75) 1,3-Dichlorobenzene	17.08	146	214208m	1.110	ppbv	
76) 1,4-Dichlorobenzene	17.22	146	204989m	1.037	ppbv	
77) 1,2-Dichlorobenzene	17.90	146	208959m	1.070	ppbv	
78) Hexachloro-1,3-Butadiene	23.46	225	176508m	1.364	ppbv	
79) Naphthalene	22.31	128	240575m	0.760	ppbv	
80) Naphthalene, 2-methyl-	25.05	142	39729	0.270	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	165214m	0.942	ppbv	

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

