

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035707.D
 Acq On : 23 Sep 2020 5:16
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:17 PM

Quant Time: Sep 23 05:48:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1275832	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4785490	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4682170	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3595037	10.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	132613	0.601	ppbv	96
3) Chlorodifluoromethane	2.98	51	74235	0.532	ppbv	96
4) Chloromethane	3.14	50	38467	0.515	ppbv #	87
5) Vinyl Chloride	3.26	62	43557	0.470	ppbv	99
6) Bromomethane	3.47	94	39043	0.507	ppbv	91
7) Chloroethane	3.56	64	16881	0.518	ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	142670	0.539	ppbv	96
9) Propene	3.01	41	24618	0.459	ppbv	98
10) Heptane	8.14	43	58646	0.400	ppbv	98
11) Trichlorofluoromethane	3.95	101	161011	0.506	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.49	101	118971	0.496	ppbv	99
13) Ethanol	3.62	45	7593m	0.570	ppbv	
14) Bromoethene	3.74	108	46235	0.451	ppbv	98
15) Acetone	3.86	43	80246	0.579	ppbv	89
16) 1,3-Butadiene	3.33	39	23392	0.449	ppbv	98
17) tert-Butyl alcohol	4.31	59	80328	0.482	ppbv	100
18) 1,1-Dichloroethene	4.29	96	47894	0.454	ppbv	93
19) Isopropyl Alcohol	3.98	45	43087	0.529	ppbv #	90
20) Methylene Chloride	4.35	84	60398	0.579	ppbv	96
21) Allyl Chloride	4.42	41	31999	0.488	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	52562	0.468	ppbv	95
23) Vinyl Acetate	5.08	43	73956m	0.414	ppbv	
24) 1,1-Dichloroethane	5.02	63	96586	0.523	ppbv	99
25) Ethyl Acetate	5.69	43	124521	0.500	ppbv	99
26) Hexane	5.70	57	64440	0.457	ppbv	89
27) Carbon Disulfide	4.56	76	90605	0.451	ppbv	97
28) Methyl tert-Butyl Ether	5.05	73	95700	0.399	ppbv	99
29) Chloroform	5.76	83	142040	0.499	ppbv	98
30) Cyclohexane	7.14	84	57642m	0.388	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	57103	0.400	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	119144	0.433	ppbv	99
34) 2-Butanone	5.26	43	72358	0.497	ppbv	100
35) Carbon Tetrachloride	7.03	117	120830	0.500	ppbv	99
36) Benzene	6.90	78	139598	0.446	ppbv	94
37) 1,2-Dichloroethane	6.31	62	81430	0.540	ppbv	99
38) Trichloroethene	7.85	130	72450	0.403	ppbv	96
39) 1,2-Dichloropropane	7.63	63	56059	0.527	ppbv	92
40) 1,4-Dioxane	7.88	88	25575m	0.493	ppbv	
41) Tetrahydrofuran	6.08	42	30970	0.402	ppbv	90
42) Bromodichloromethane	7.80	83	122968	0.506	ppbv	95
43) Methyl Methacrylate	8.03	69	48544	0.398	ppbv	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035707.D
 Acq On : 23 Sep 2020 5:16
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/24/2020 1:35:17 PM

Quant Time: Sep 23 05:48:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	204114	0.489	ppbv	96
45) t-1,3-Dichloropropene	9.29	75	43476	0.353	ppbv	95
46) cis-1,3-Dichloropropene	8.72	75	57567	0.376	ppbv	92
47) 1,1,2-Trichloroethane	9.49	97	81207	0.521	ppbv	98
48) Dibromochloromethane	10.33	129	105481	0.434	ppbv	98
49) Bromoform	13.07	173	81981	0.378	ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	98431	0.465	ppbv	93
51) 2-Hexanone	10.17	43	69711	0.403	ppbv #	92
52) Tetrachloroethene	11.24	164	69659	0.391	ppbv	94
53) Toluene	9.82	91	143767	0.366	ppbv	93
54) 1,2-Dibromoethane	10.63	107	111137	0.453	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	96835m	0.503	ppbv	
57) Chlorobenzene	12.17	112	189694	0.543	ppbv #	93
58) Ethyl Benzene	12.74	91	191943	0.390	ppbv	95
59) m/p-Xylene	13.02	91	372044m	0.900	ppbv	
60) o-Xylene	13.72	91	181920	0.437	ppbv	95
61) Styrene	13.55	104	99662	0.317	ppbv	96
62) Isopropylbenzene	14.69	105	305698	0.462	ppbv	93
63) 1,1,2,2-Tetrachloroethane	13.70	83	177986	0.553	ppbv	98
64) n-propylbenzene	15.59	120	80466	0.401	ppbv #	63
65) tert-Butylbenzene	16.78	119	251850	0.411	ppbv	99
66) Benzyl Chloride	17.02	91	59084	0.375	ppbv	97
67) sec-Butylbenzene	17.33	105	369474	0.450	ppbv	92
69) p-Isopropyltoluene	17.68	119	274285	0.384	ppbv	95
70) n-Butylbenzene	18.58	91	296697	0.427	ppbv	90
71) 2-Chlorotoluene	15.48	91	199555	0.412	ppbv	98
72) 4-Ethyltoluene	15.87	105	196340	0.375	ppbv	97
73) 1,3,5-Trimethylbenzene	16.03	105	192774	0.398	ppbv	96
74) 1,2,4-Trimethylbenzene	16.79	105	241517	0.453	ppbv	95
75) 1,3-Dichlorobenzene	17.03	146	179958	0.465	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	162844m	0.427	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	163766	0.437	ppbv	100
78) Hexachloro-1,3-Butadiene	23.41	225	87724	0.375	ppbv	99
79) Naphthalene	22.24	128	185293m	0.324	ppbv	
80) Naphthalene, 2-methyl-	25.00	142	24853m	0.134	ppbv	
81) 1,2,4-Trichlorobenzene	21.97	180	107971m	0.322	ppbv	

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092320\
Data File : VL035707.D
Acq On : 23 Sep 2020 5:16
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

MMDadoda
9/24/2020 1:35:17 PM

Quant Time: Sep 23 05:48:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 23 05:25:46 2020
Response via : Initial Calibration

