

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120721\
 Data File : VW023831.D
 Acq On : 07 Dec 2021 18:31
 Operator : SY/MD
 Sample : M4879-04DL 20X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 08 01:17:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112321WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 02 02:08:23 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	153992	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	139489	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	76741	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	37529	2.969	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	59.400%
7) Chloroethane-d5	1.568	69	32915	3.312	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	66.200%
11) 1,1-Dichloroethene-d2	2.108	63	54592	2.450	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.000%#
20) 2-Butanone-d5	3.915	46	96707	63.636	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.280%
24) Chloroform-d	4.349	84	93886	4.265	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.400%
26) 1,2-Dichloroethane-d4	5.037	65	45279	4.403	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.000%
32) Benzene-d6	5.050	84	178689	4.703	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.000%
36) 1,2-Dichloropropane-d6	6.072	67	56805	5.332	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.600%
41) Toluene-d8	7.317	98	162195	4.568	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.400%
43) trans-1,3-Dichloroprop...	7.625	79	20517	4.778	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.600%
46) 2-Hexanone-d5	8.091	63	94888	66.512	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	133.020%#
56) 1,1,2,2-Tetrachloroeth...	10.217	84	38730	5.052	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.000%
66) 1,2-Dichlorobenzene-d4	11.625	152	67432	4.970	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.201	62	649	0.049	ug/L	96
6) Bromomethane	1.526	94	325	0.043	ug/L	99
13) Acetone	2.137	43	3079	2.252	ug/L	57
15) Methyl Acetate	2.432	43	2872	0.925	ug/L #	50
22) cis-1,2-Dichloroethene	3.915	96	13918	1.235	ug/L	95
25) Chloroform	4.407	83	9300	0.422	ug/L #	30
30) Cyclohexane	4.677	56	33751	2.219	ug/L	99
34) Trichloroethene	5.921	95	4968	0.466	ug/L	93
35) Methylcyclohexane	6.130	83	12293	0.740	ug/L	95
39) cis-1,3-Dichloropropene	6.992	75	1860	0.138	ug/L #	65
42) Toluene	7.394	91	22633	0.525	ug/L	96
45) 1,1,2-Trichloroethane	7.786	97	858	0.131	ug/L #	16
47) Tetrachloroethene	7.976	164	123300	12.716	ug/L	97
49) Dibromochloromethane	7.976	129	110000	12.264	ug/L #	12
52) Ethylbenzene	9.014	91	102022	2.263	ug/L	100
53) m,p-xylene	9.140	106	55242	3.079	ug/L	100
54) o-xylene	9.545	106	12055	0.707	ug/L	96
60) Isopropylbenzene	9.934	105	7725	0.169	ug/L	97
61) 1,2,3-Trichloropropane	10.445	75	436	0.080	ug/L #	1

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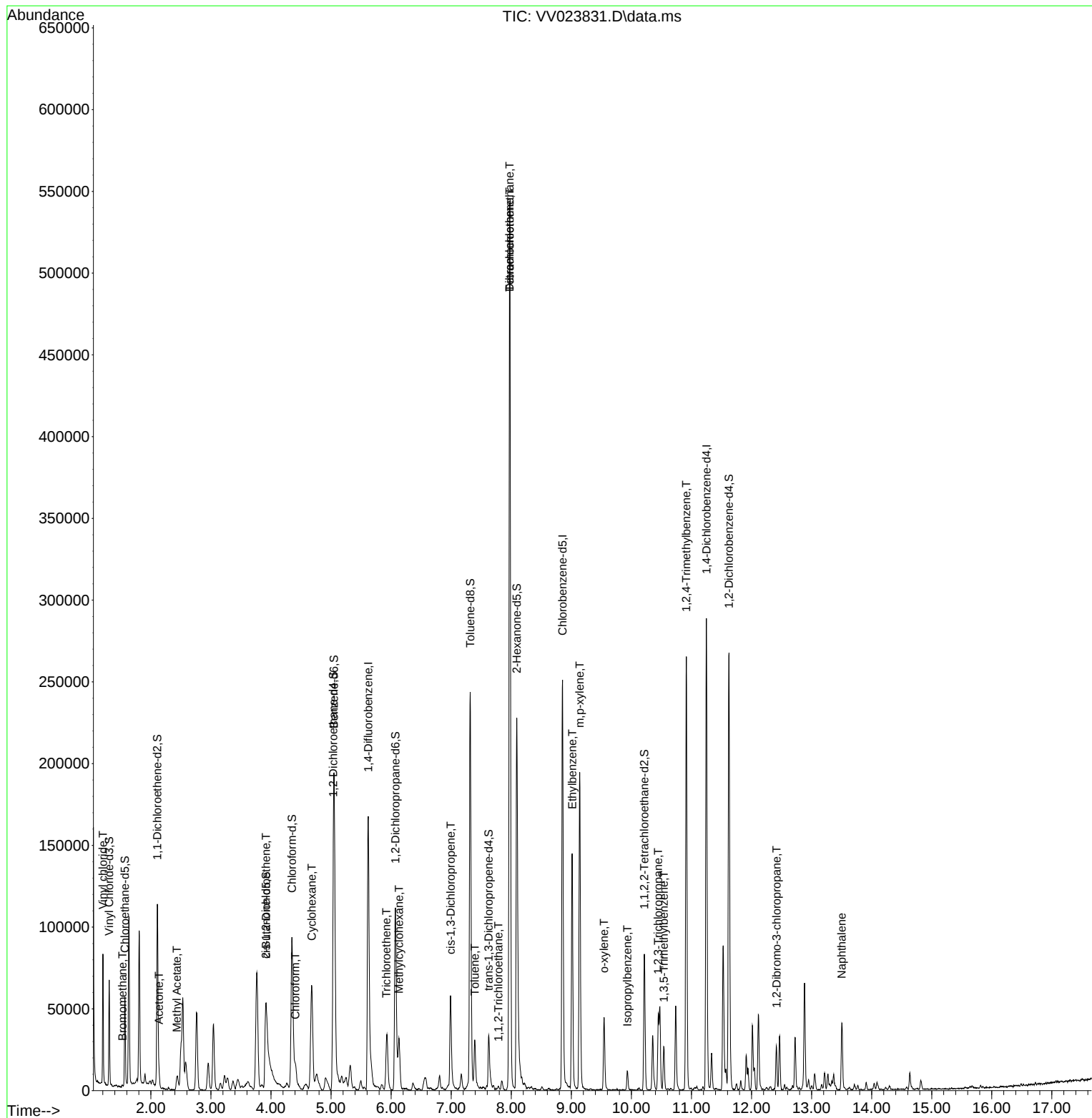
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.538	105	14925	0.391	ug/L	97
63) 1,2,4-Trimethylbenzene	10.914	105	143576	3.808	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.419	75	131	0.121	ug/L #	1
71) Naphthalene	13.503	128	34474	1.805	ug/L	100

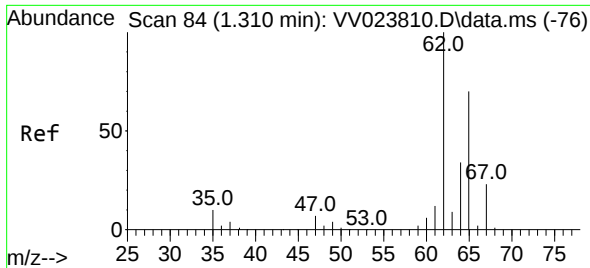
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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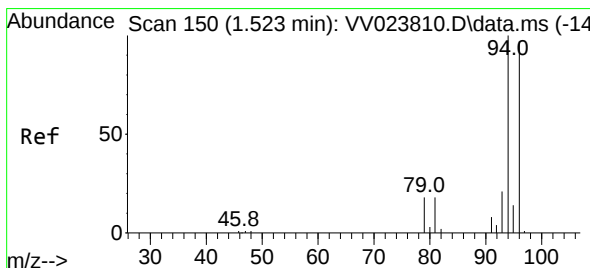
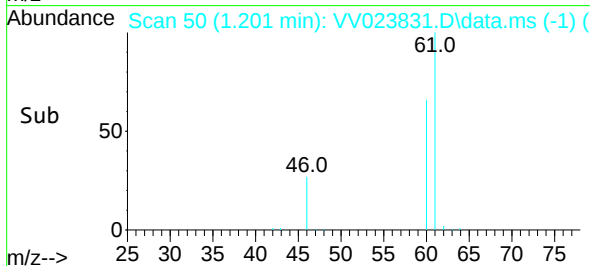
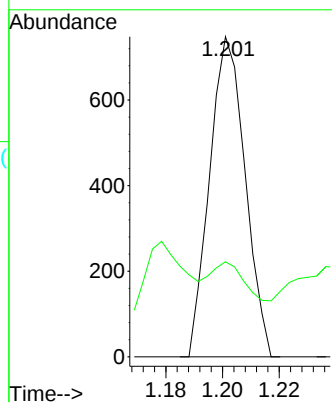
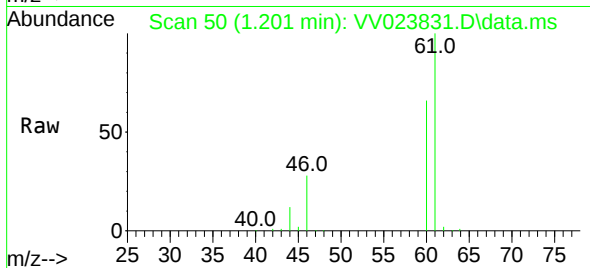




#5
 Vinyl chloride
 Concen: 0.049 ug/L
 RT: 1.201 min Scan# 50
 Delta R.T. -0.109 min
 Lab File: VV023831.D
 Acq: 07 Dec 2021 18:31

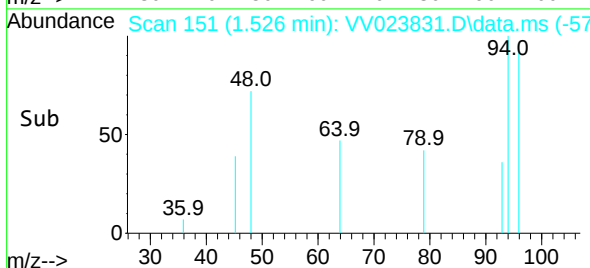
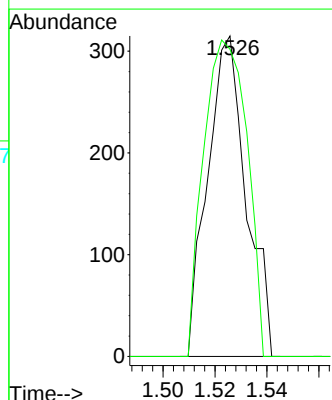
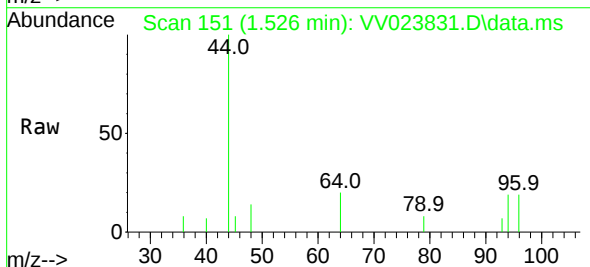
Instrument :
 MSVOA_V
 ClientSampleId :

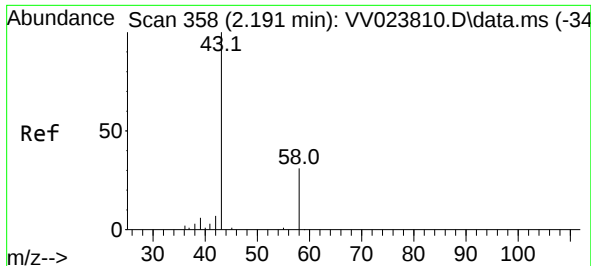
Tgt Ion: 62 Resp: 649
 Ion Ratio Lower Upper
 62 100
 64 29.7 22.4 41.6



#6
 Bromomethane
 Concen: 0.043 ug/L
 RT: 1.526 min Scan# 151
 Delta R.T. 0.003 min
 Lab File: VV023831.D
 Acq: 07 Dec 2021 18:31

Tgt Ion: 94 Resp: 325
 Ion Ratio Lower Upper
 94 100
 96 95.9 66.2 123.0

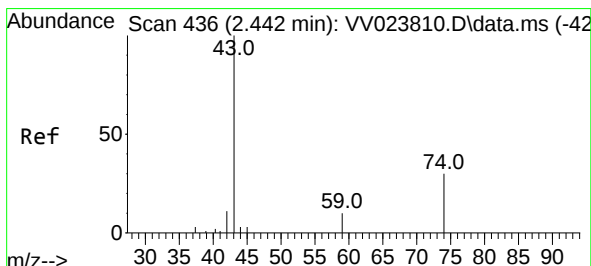
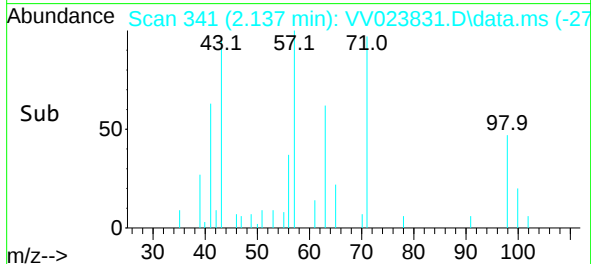
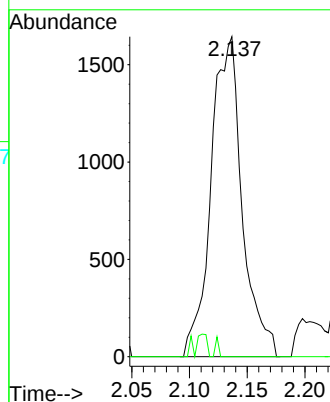
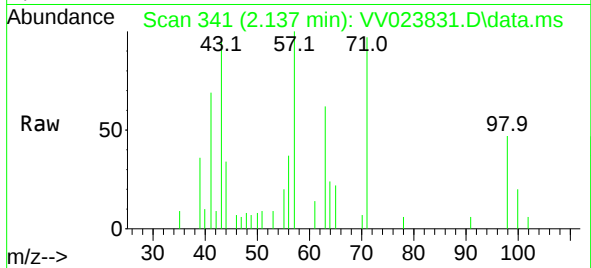




#13
Acetone
Concen: 2.252 ug/L
RT: 2.137 min Scan# 341
Delta R.T. -0.087 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

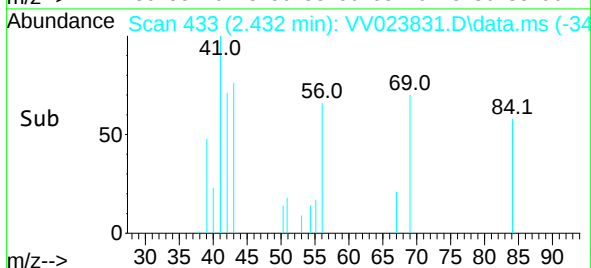
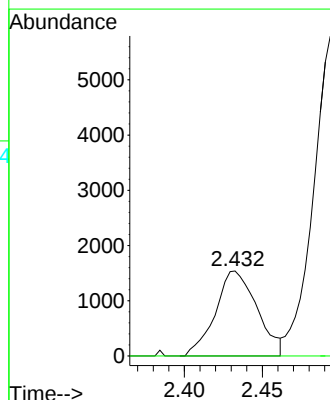
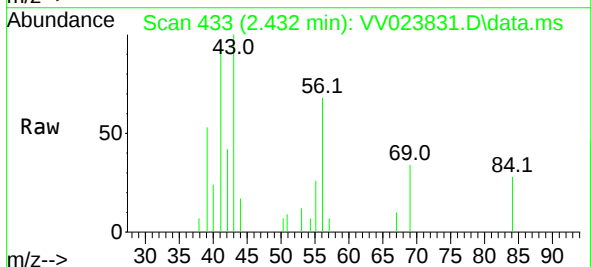
Instrument :
MSVOA_V
ClientSampleId :

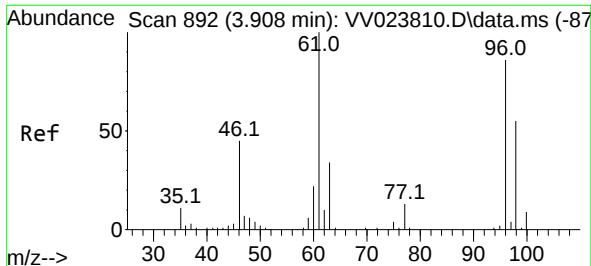
Tgt Ion: 43 Resp: 3079
Ion Ratio Lower Upper
43 100
58 0.6 0.0 41.4



#15
Methyl Acetate
Concen: 0.925 ug/L
RT: 2.432 min Scan# 433
Delta R.T. -0.010 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

Tgt Ion: 43 Resp: 2872
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#





#22

cis-1,2-Dichloroethene

Concen: 1.235 ug/L

RT: 3.915 min Scan# 89

Delta R.T. 0.006 min

Lab File: VV023831.D

Acq: 07 Dec 2021 18:31

Instrument :

MSVOA_V

ClientSampleId :

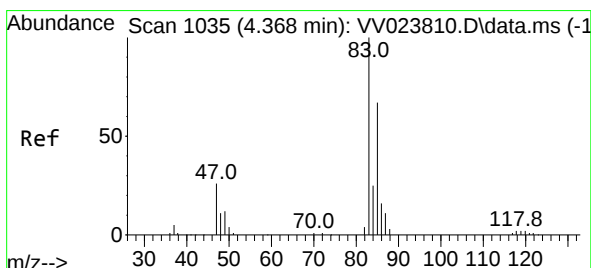
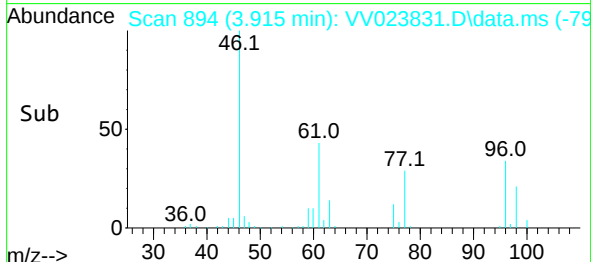
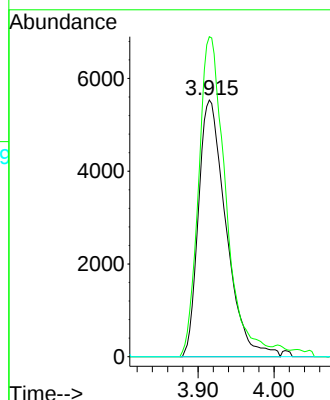
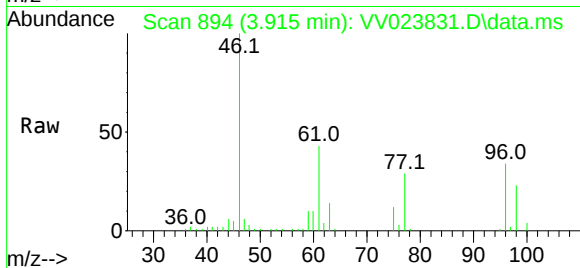
Tgt Ion: 96 Resp: 13918

Ion Ratio Lower Upper

96 100

61 124.7 83.4 154.8

68 0.0 0.0 0.0



#25

Chloroform

Concen: 0.422 ug/L

RT: 4.407 min Scan# 1047

Delta R.T. 0.035 min

Lab File: VV023831.D

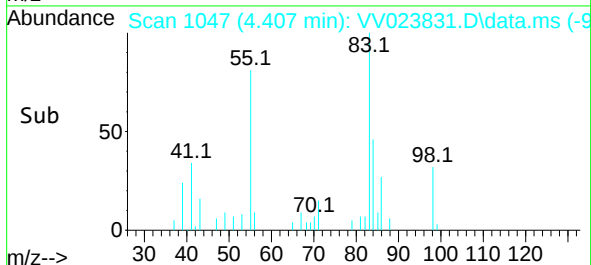
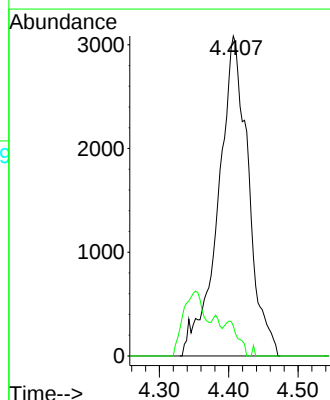
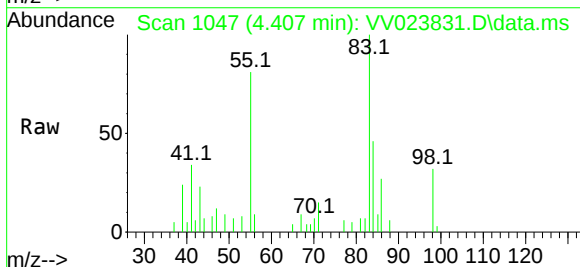
Acq: 07 Dec 2021 18:31

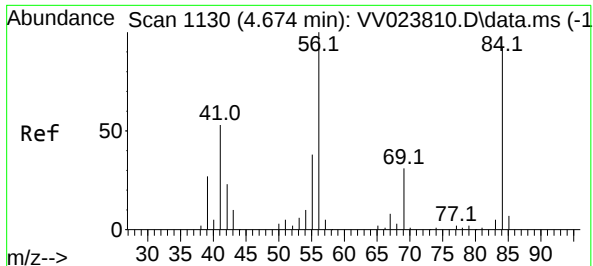
Tgt Ion: 83 Resp: 9300

Ion Ratio Lower Upper

83 100

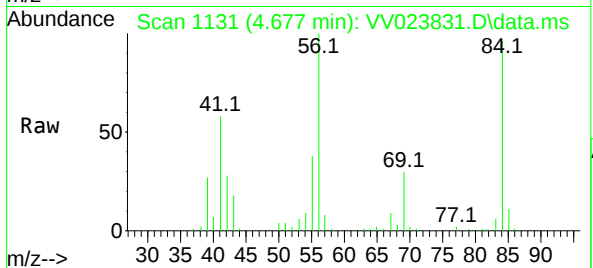
85 9.4 45.2 84.0#



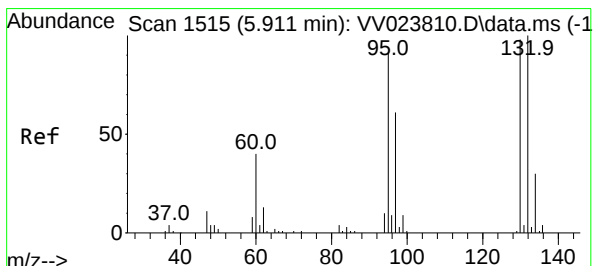
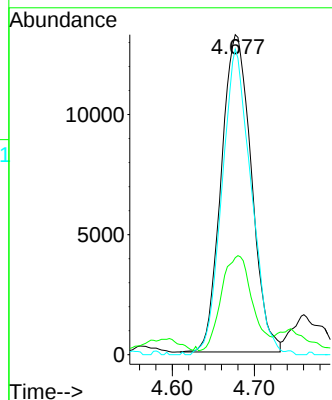
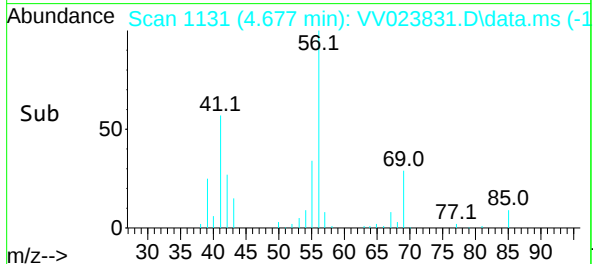


#30
Cyclohexane
Concen: 2.219 ug/L
RT: 4.677 min Scan# 1130
Delta R.T. 0.003 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

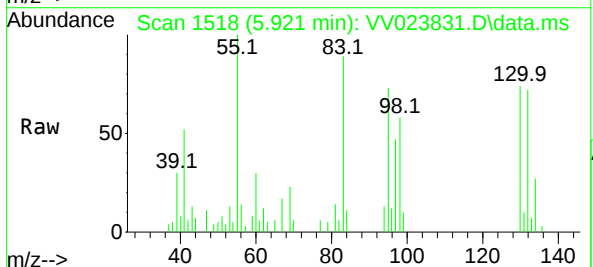
Instrument :
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ClientSampleId :



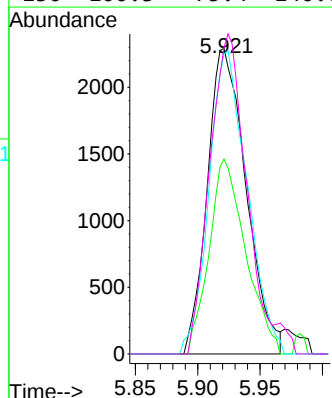
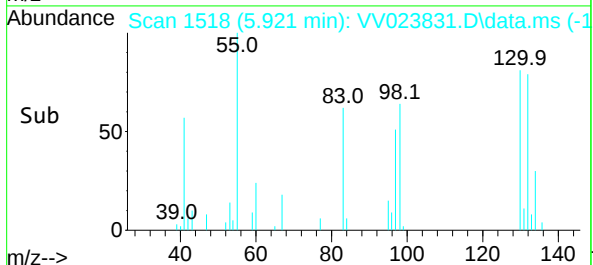
Tgt Ion: 56 Resp: 33751
Ion Ratio Lower Upper
56 100
69 31.0 24.8 37.2
84 93.1 75.9 113.9

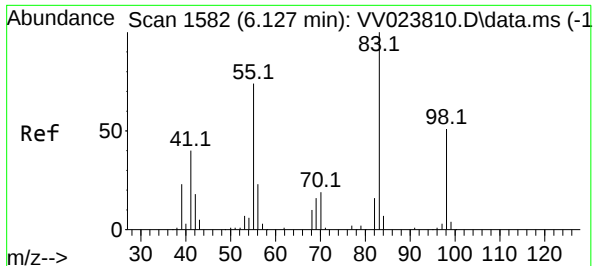


#34
Trichloroethene
Concen: 0.466 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.010 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31



Tgt Ion: 95 Resp: 4968
Ion Ratio Lower Upper
95 100
97 63.7 45.2 84.0
132 98.2 76.1 141.3
130 100.3 75.4 140.0





#35

Methylcyclohexane

Concen: 0.740 ug/L

RT: 6.130 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV023831.D

Acq: 07 Dec 2021 18:31

Instrument :

MSVOA_V

ClientSampleId :

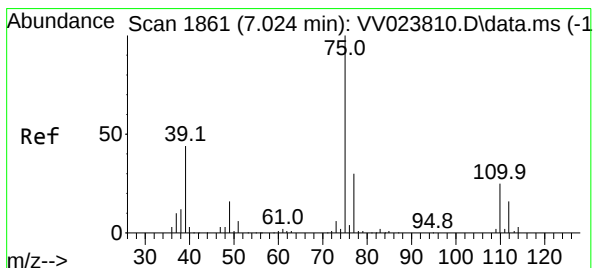
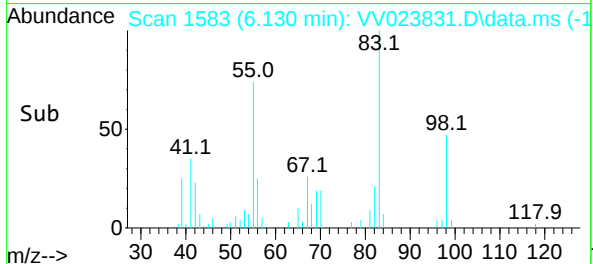
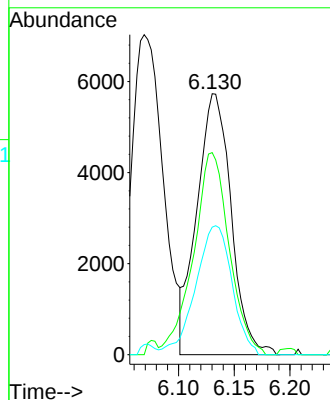
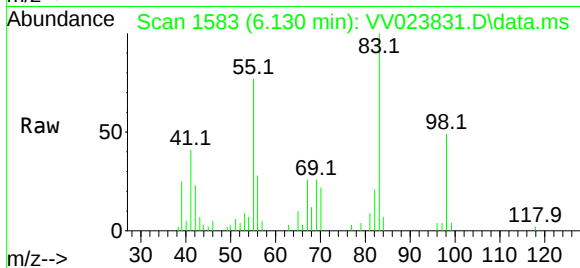
Tgt Ion: 83 Resp: 12293

Ion Ratio Lower Upper

83 100

55 80.9 60.2 90.2

98 52.4 41.0 61.4



#39

cis-1,3-Dichloropropene

Concen: 0.138 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.032 min

Lab File: VV023831.D

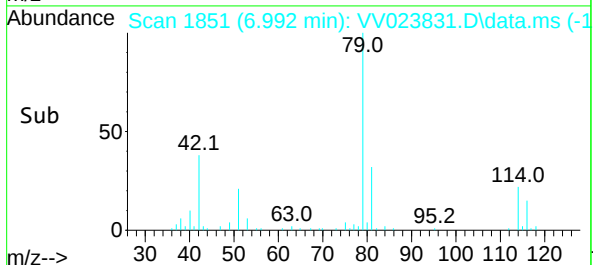
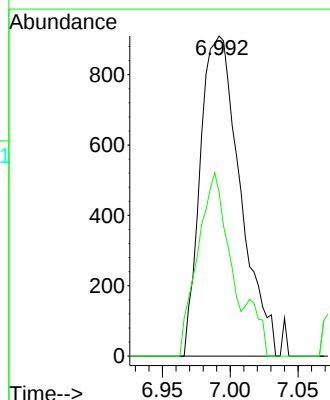
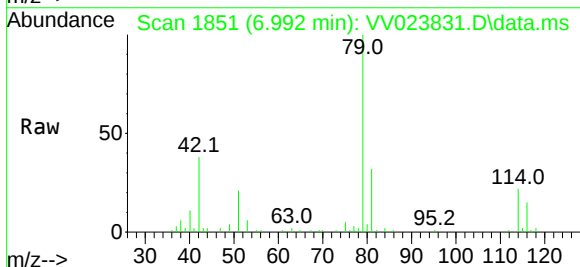
Acq: 07 Dec 2021 18:31

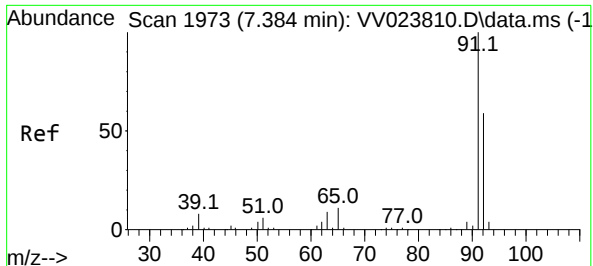
Tgt Ion: 75 Resp: 1860

Ion Ratio Lower Upper

75 100

77 51.1 22.0 41.0#

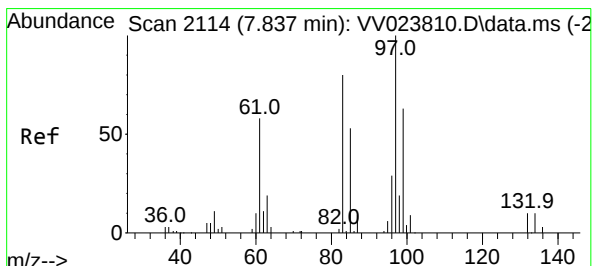
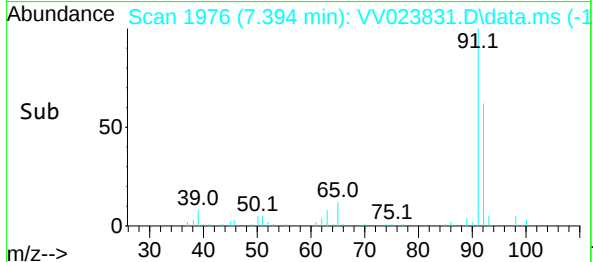
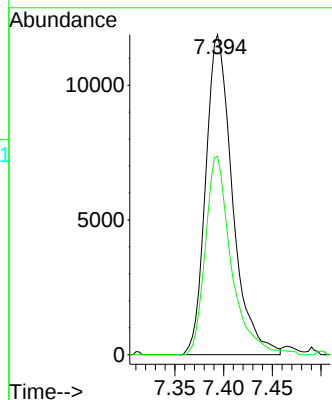
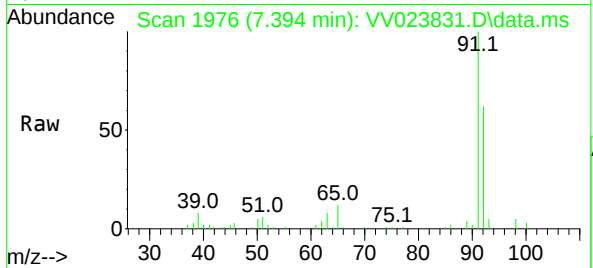




#42
Toluene
Concen: 0.525 ug/L
RT: 7.394 min Scan# 1973
Delta R.T. 0.010 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

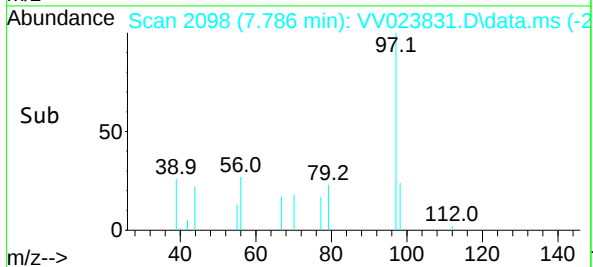
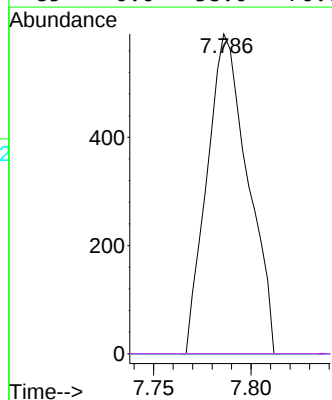
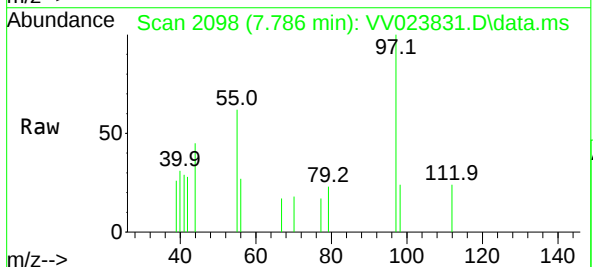
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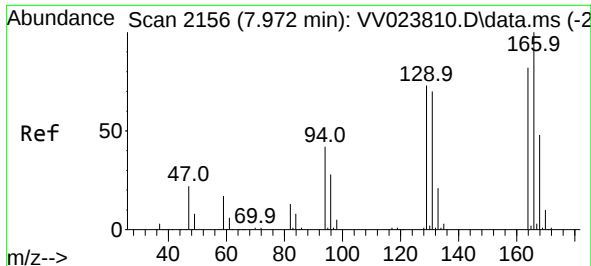
Tgt Ion: 91 Resp: 22633
Ion Ratio Lower Upper
91 100
92 62.1 41.5 77.1



#45
1,1,2-Trichloroethane
Concen: 0.131 ug/L
RT: 7.786 min Scan# 2098
Delta R.T. -0.051 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

Tgt Ion: 97 Resp: 858
Ion Ratio Lower Upper
97 100
99 0.0 43.1 80.1#
83 0.0 57.9 107.5#
85 0.0 38.0 70.6#





#47

Tetrachloroethene

Concen: 12.716 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.003 min

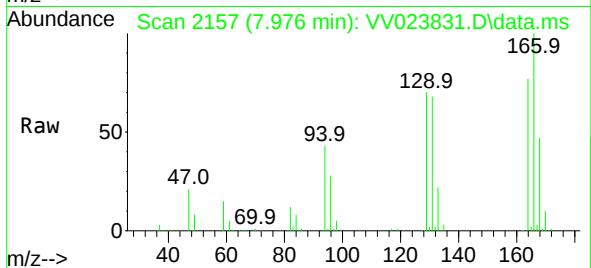
Lab File: VV023831.D

Acq: 07 Dec 2021 18:31

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 123300

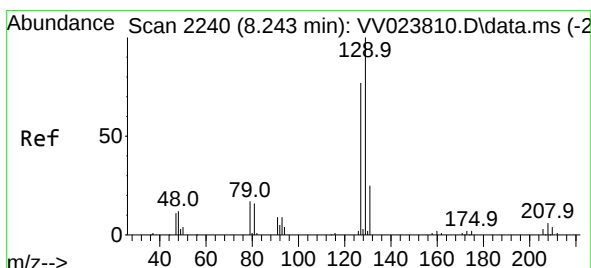
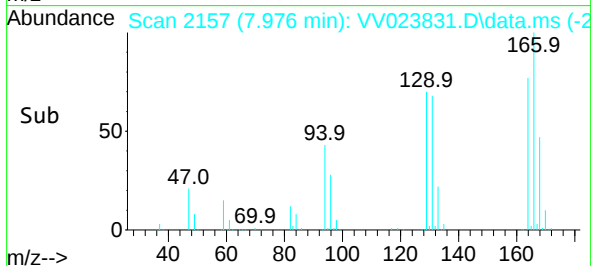
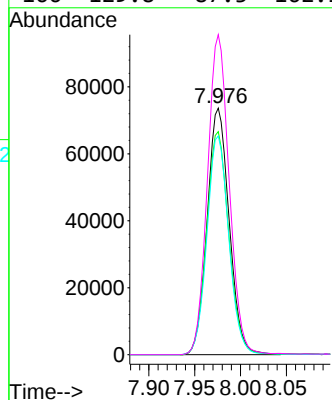
Ion Ratio Lower Upper

164 100

129 90.4 62.6 116.2

131 88.7 61.0 113.4

166 129.8 87.3 162.1



#49

Dibromochloromethane

Concen: 12.264 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.267 min

Lab File: VV023831.D

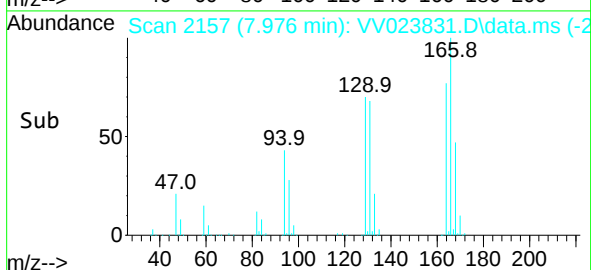
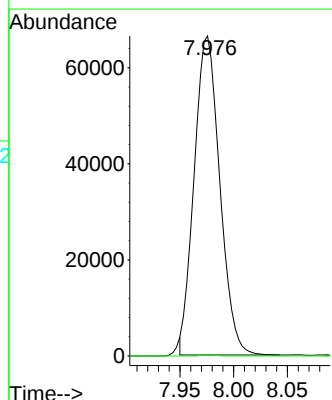
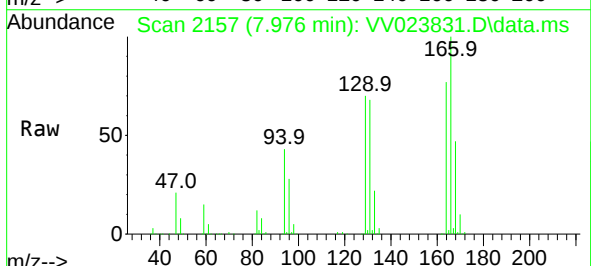
Acq: 07 Dec 2021 18:31

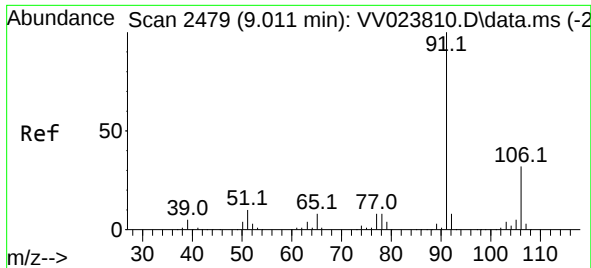
Tgt Ion:129 Resp: 110000

Ion Ratio Lower Upper

129 100

127 0.3 53.5 99.3#





#52

Ethylbenzene

Concen: 2.263 ug/L

RT: 9.014 min Scan# 2479

Delta R.T. 0.003 min

Lab File: VV023831.D

Acq: 07 Dec 2021 18:31

Instrument :

MSVOA_V

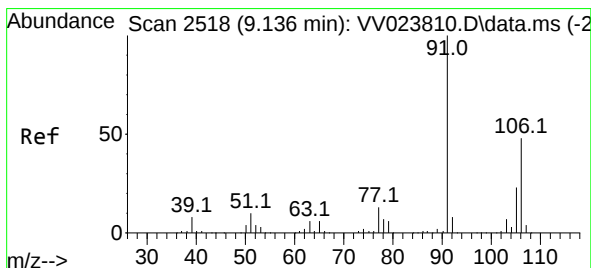
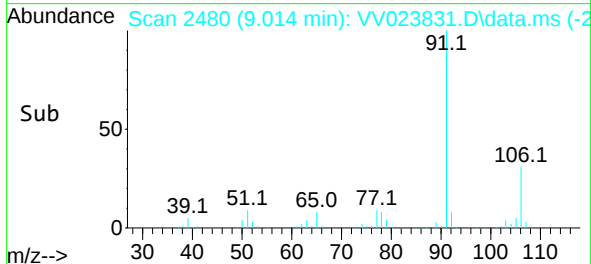
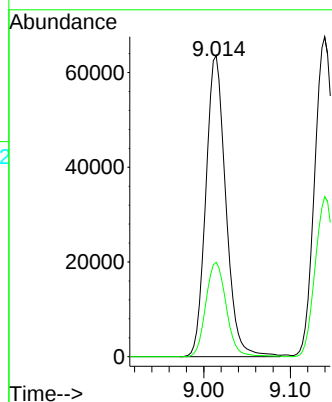
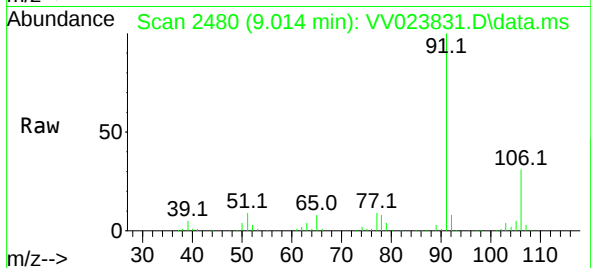
ClientSampleId :

Tgt Ion: 91 Resp: 102022

Ion Ratio Lower Upper

91 100

106 31.3 22.0 41.0



#53

m,p-xylene

Concen: 3.079 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.003 min

Lab File: VV023831.D

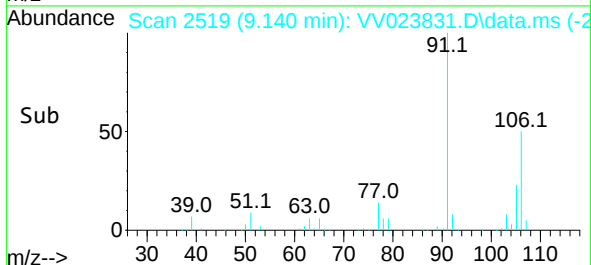
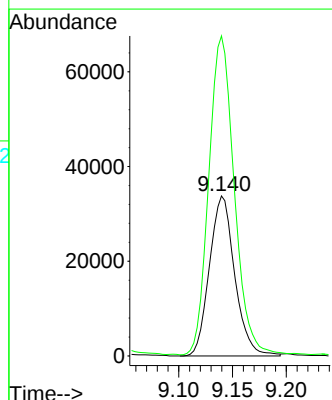
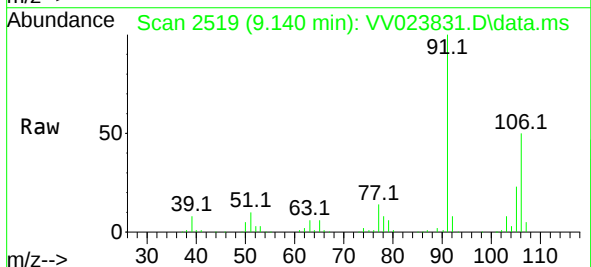
Acq: 07 Dec 2021 18:31

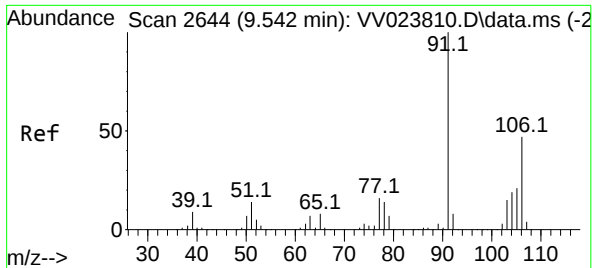
Tgt Ion: 106 Resp: 55242

Ion Ratio Lower Upper

106 100

91 200.0 139.5 259.1

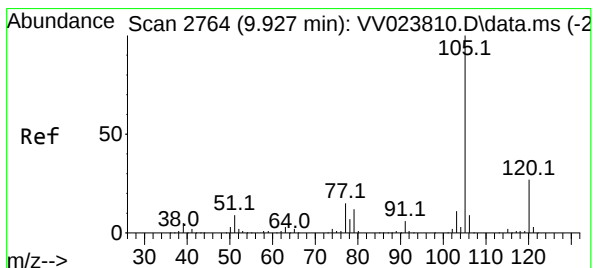
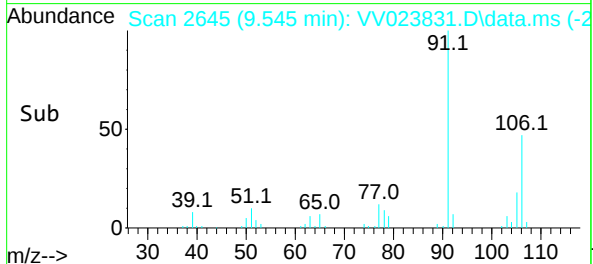
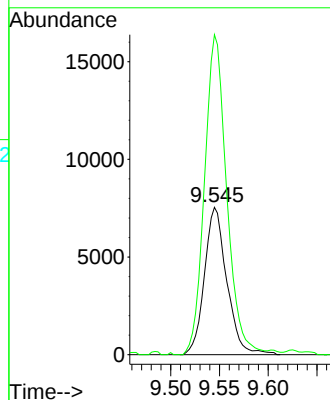
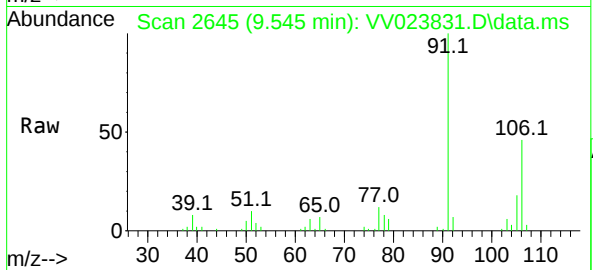




#54
o-xylene
Concen: 0.707 ug/L
RT: 9.545 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

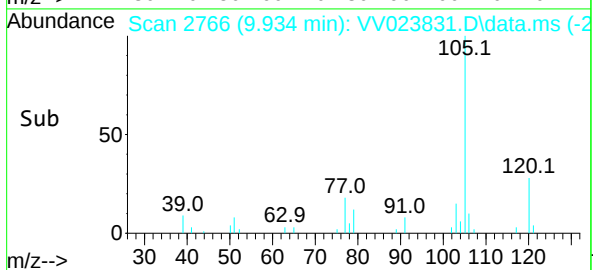
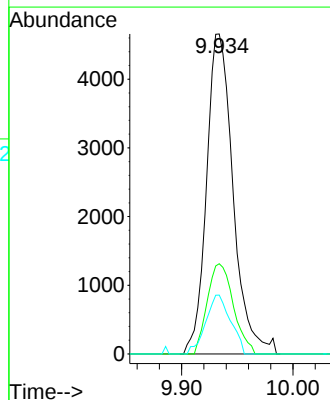
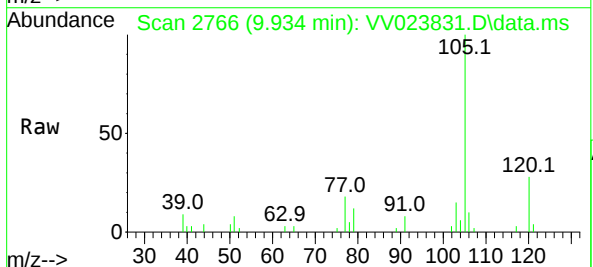
Instrument :
MSVOA_V
ClientSampleId :

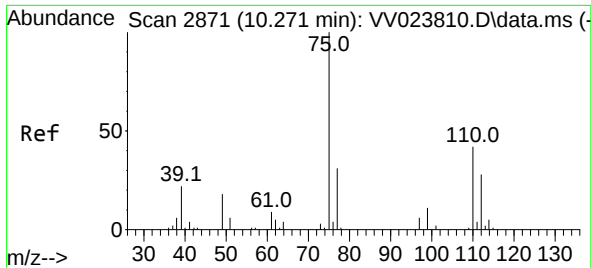
Tgt Ion:106 Resp: 12055
Ion Ratio Lower Upper
106 100
91 217.1 147.9 274.7



#60
Isopropylbenzene
Concen: 0.169 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

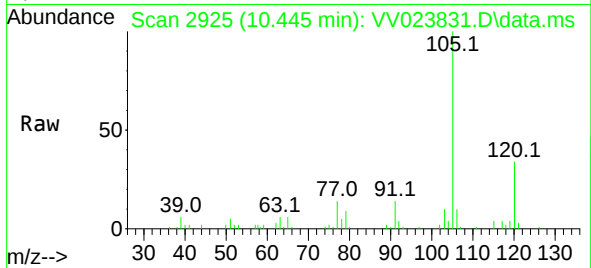
Tgt Ion:105 Resp: 7725
Ion Ratio Lower Upper
105 100
120 27.7 21.4 32.0
77 17.1 12.2 18.4



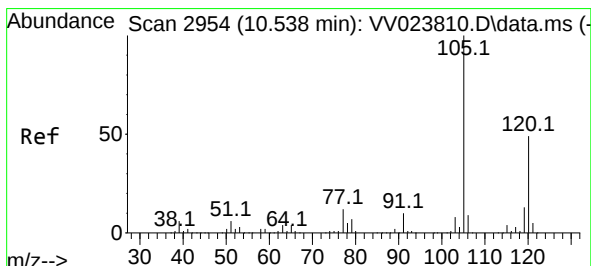
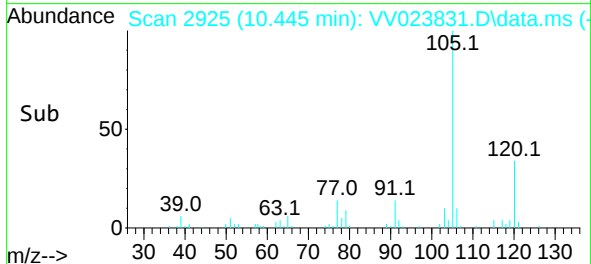
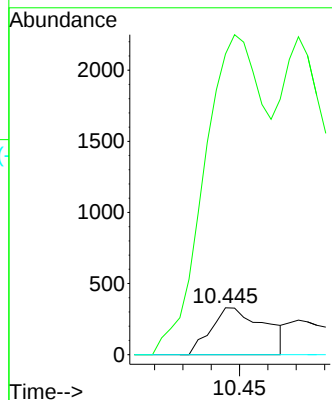


#61
1,2,3-Trichloropropane
Concen: 0.080 ug/L
RT: 10.445 min Scan# 2925
Delta R.T. 0.174 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

Instrument :
MSVOA_V
ClientSampleId :

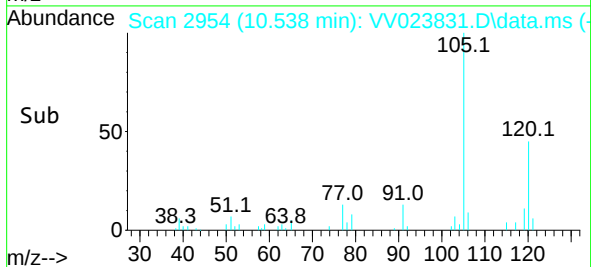
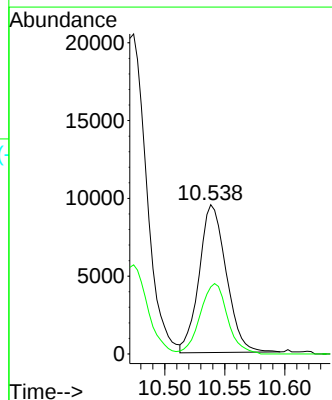
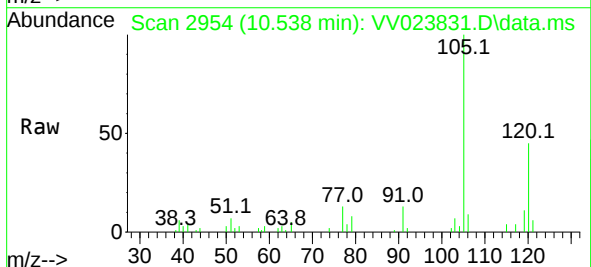


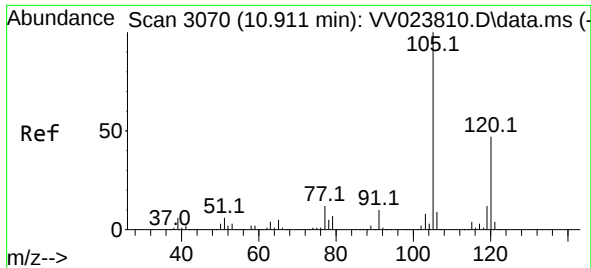
Tgt Ion: 75 Resp: 436
Ion Ratio Lower Upper
75 100
77 770.0 26.4 39.6#
110 0.0 34.2 51.2#



#62
1,3,5-Trimethylbenzene
Concen: 0.391 ug/L
RT: 10.538 min Scan# 2954
Delta R.T. -0.000 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

Tgt Ion: 105 Resp: 14925
Ion Ratio Lower Upper
105 100
120 48.1 40.1 60.1

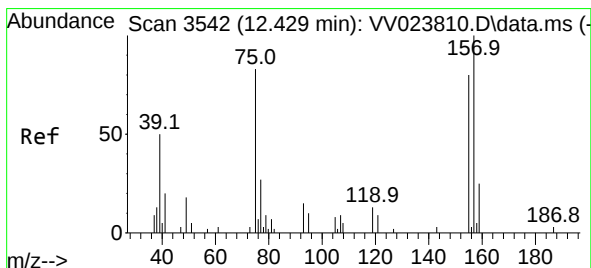
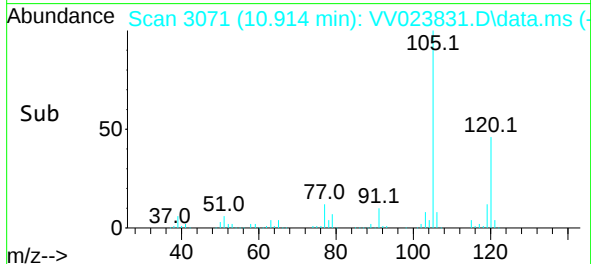
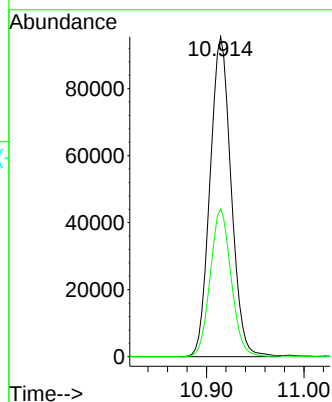
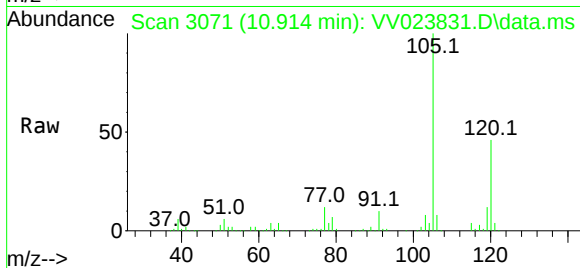




#63
 1,2,4-Trimethylbenzene
 Concen: 3.808 ug/L
 RT: 10.914 min Scan# 3070
 Delta R.T. 0.003 min
 Lab File: VV023831.D
 Acq: 07 Dec 2021 18:31

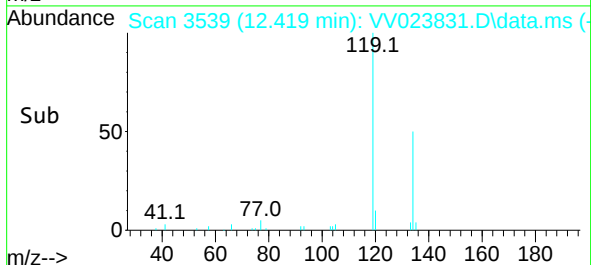
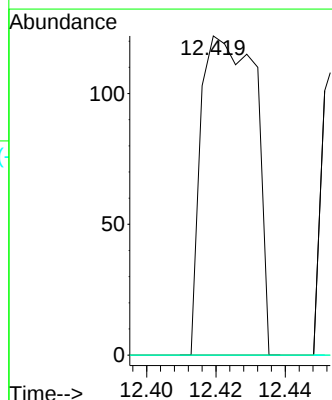
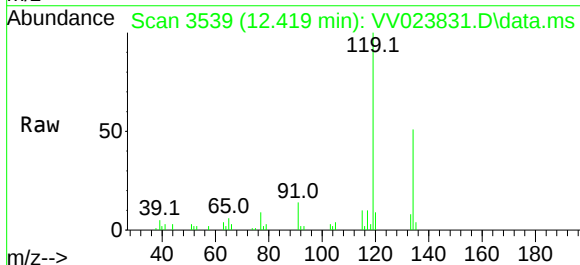
Instrument :
 MSVOA_V
 ClientSampleId :

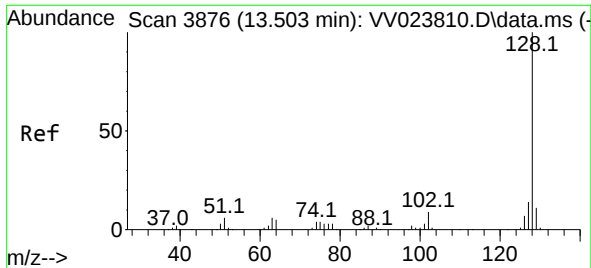
Tgt Ion:105 Resp: 143576
 Ion Ratio Lower Upper
 105 100
 120 45.7 36.7 55.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.121 ug/L
 RT: 12.419 min Scan# 3539
 Delta R.T. -0.006 min
 Lab File: VV023831.D
 Acq: 07 Dec 2021 18:31

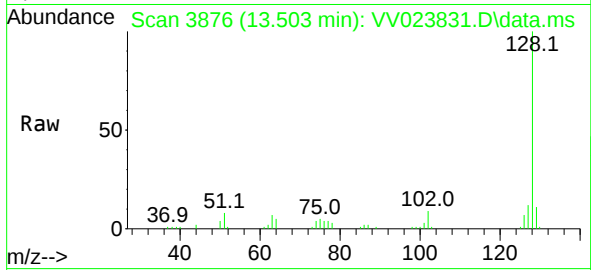
Tgt Ion: 75 Resp: 131
 Ion Ratio Lower Upper
 75 100
 155 0.0 71.7 107.5#
 157 0.0 103.3 154.9#





#71
Naphthalene
Concen: 1.805 ug/L
RT: 13.503 min Scan# 34
Delta R.T. -0.000 min
Lab File: VV023831.D
Acq: 07 Dec 2021 18:31

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 34474
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.4
127 12.9 10.2 15.4

