

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW122721\
 Data File : VW024184.D
 Acq On : 27 Dec 2021 17:03
 Operator : SY/MD
 Sample : M5170-06RE
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 28 05:51:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR122721WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Dec 28 05:23:55 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	134735	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	135061	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	77831	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	40216	3.968	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.400%
7) Chloroethane-d5	1.568	69	36432	4.311	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.200%
11) 1,1-Dichloroethene-d2	2.108	63	60464	2.455	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.000%#
20) 2-Butanone-d5	3.902	46	70087	62.260	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	124.520%
24) Chloroform-d	4.349	84	93019	4.324	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.400%
26) 1,2-Dichloroethane-d4	5.034	65	46592	4.838	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.800%
32) Benzene-d6	5.050	84	179705	4.927	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.600%
36) 1,2-Dichloropropane-d6	6.069	67	52148	5.220	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.400%
41) Toluene-d8	7.317	98	166882	4.642	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.800%
43) trans-1,3-Dichloroprop...	7.625	79	20130	4.758	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.200%
46) 2-Hexanone-d5	8.088	63	81018	56.957	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.920%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	36502	5.351	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.000%
66) 1,2-Dichlorobenzene-d4	11.622	152	68406	5.056	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.243	50	2405	0.102	ug/L	100
8) Chloroethane	1.587	64	4844	0.346	ug/L	88
12) 1,1-Dichloroethene	2.111	96	1170	0.063	ug/L #	1
13) Acetone	2.204	43	10513	6.580	ug/L	90
14) Carbon disulfide	2.298	76	31370	0.525	ug/L	99
18) trans-1,2-Dichloroethene	2.764	96	1475	0.075	ug/L #	71
21) 2-Butanone	4.015	43	2619	1.246	ug/L	100
22) cis-1,2-Dichloroethene	3.915	96	7353	0.378	ug/L	90
33) Benzene	5.101	78	82867	1.169	ug/L	100
34) Trichloroethene	5.915	95	14704	0.735	ug/L	98
37) 1,2-Dichloropropane	6.072	63	6376	0.390	ug/L #	84
40) 4-Methyl-2-pentanone	7.236	43	12661	1.621	ug/L #	86
42) Toluene	7.387	91	114627	1.450	ug/L	99
47) Tetrachloroethene	7.976	164	9768	0.549	ug/L	95
48) 2-Hexanone	8.153	43	4372	0.765	ug/L #	90
49) Dibromochloromethane	7.976	129	8856	0.544	ug/L #	11
52) Ethylbenzene	9.014	91	36315	0.432	ug/L	97
53) m,p-xylene	9.140	106	24173	0.725	ug/L	97
54) o-xylene	9.545	106	8642	0.271	ug/L	98

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Dec 28 05:23:55 2021
Response via : Initial Calibration

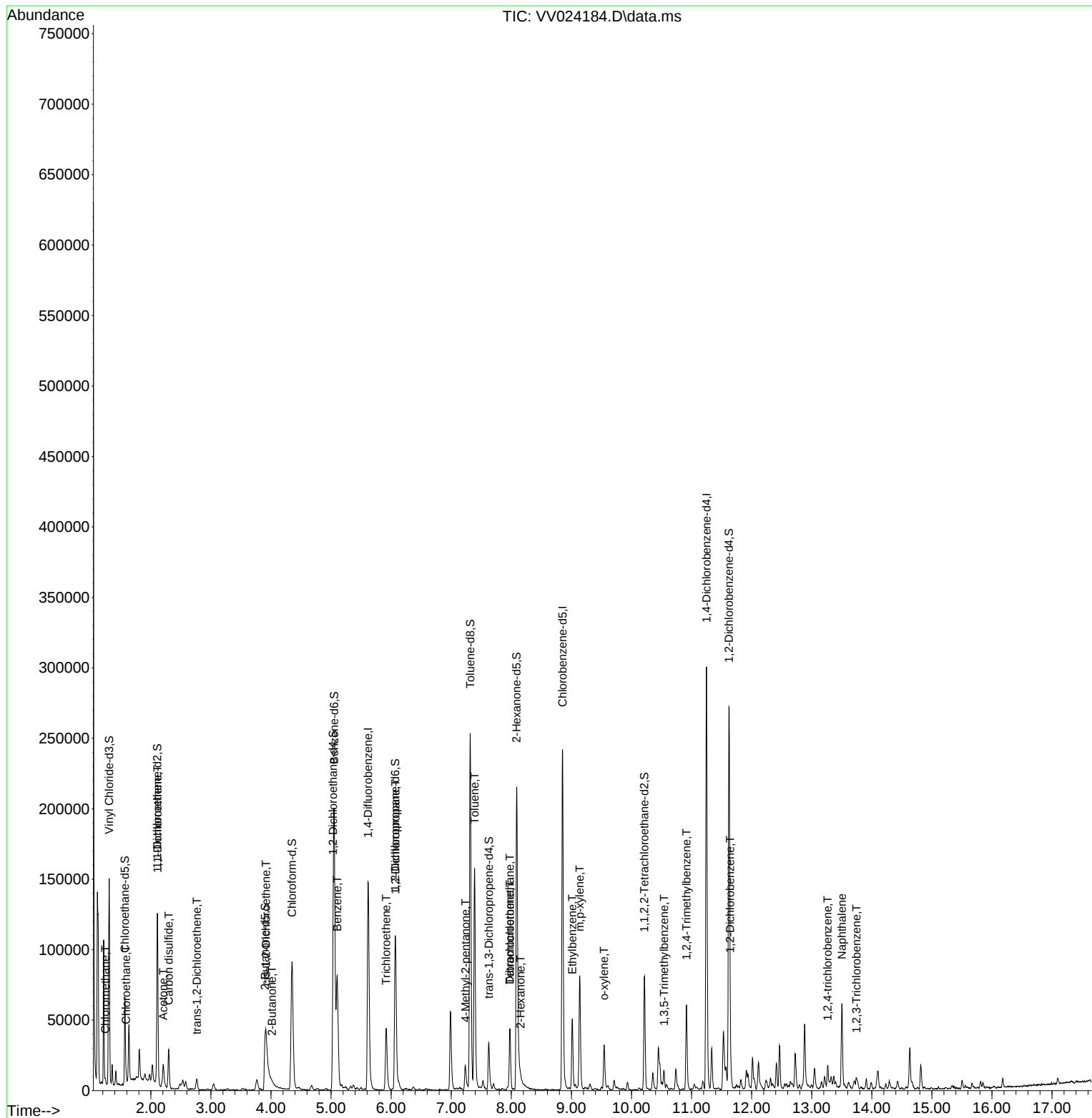
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.542	105	7339	0.106	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	31896	0.451	ug/L	100
67) 1,2-Dichlorobenzene	11.644	146	2432	0.063	ug/L #	89
70) 1,2,4-trichlorobenzene	13.265	180	1992	0.076	ug/L #	92
71) Naphthalene	13.503	128	48891	1.260	ug/L	98
72) 1,2,3-Trichlorobenzene	13.744	180	2104	0.092	ug/L #	92

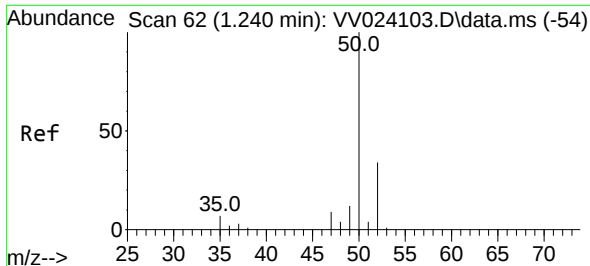
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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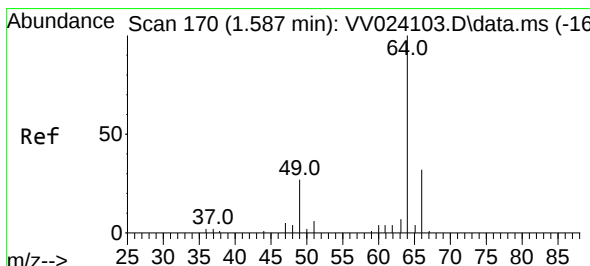
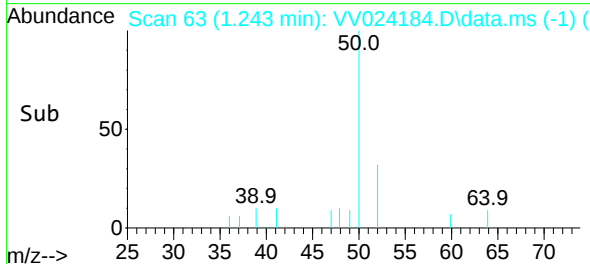
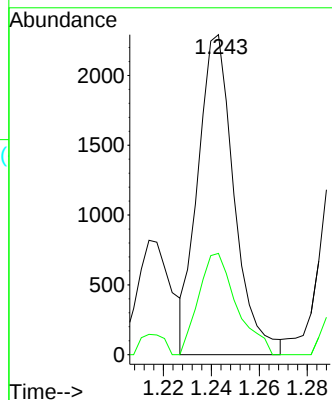
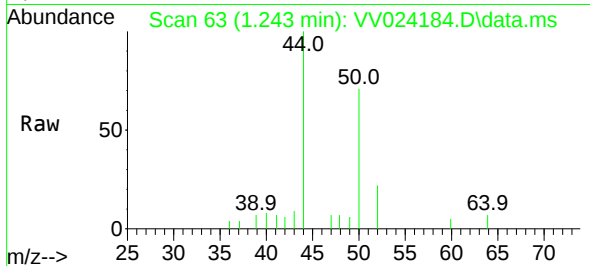




#3
Chloromethane
Concen: 0.102 ug/L
RT: 1.243 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

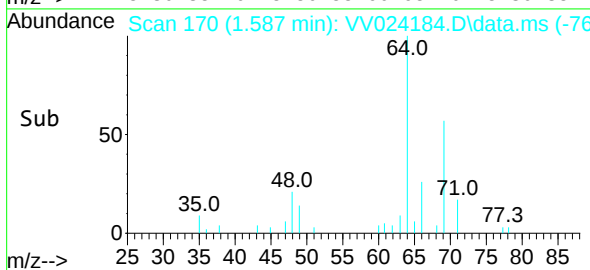
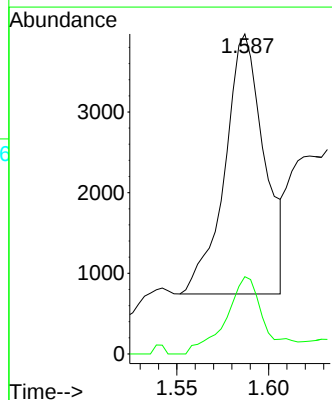
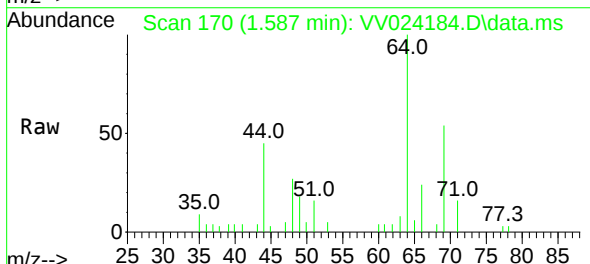
Instrument :
MSVOA_V
ClientSampleId :

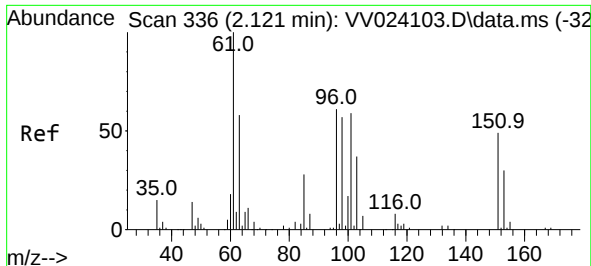
Tgt Ion: 50 Resp: 2405
Ion Ratio Lower Upper
50 100
52 31.6 22.0 41.0



#8
Chloroethane
Concen: 0.346 ug/L
RT: 1.587 min Scan# 170
Delta R.T. 0.003 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

Tgt Ion: 64 Resp: 4844
Ion Ratio Lower Upper
64 100
66 24.2 21.4 39.8





#12

1,1-Dichloroethene

Concen: 0.063 ug/L

RT: 2.111 min Scan# 311

Delta R.T. -0.006 min

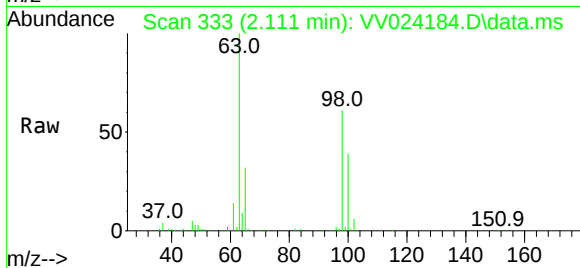
Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Instrument :

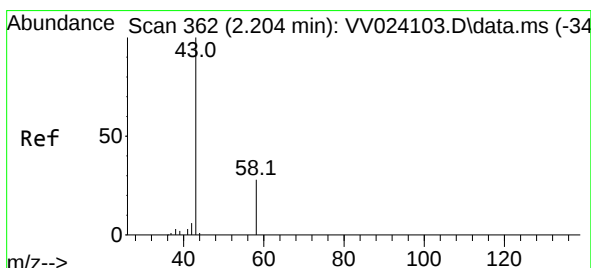
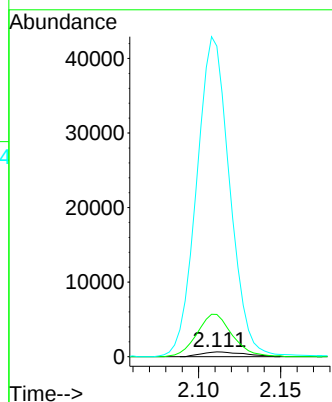
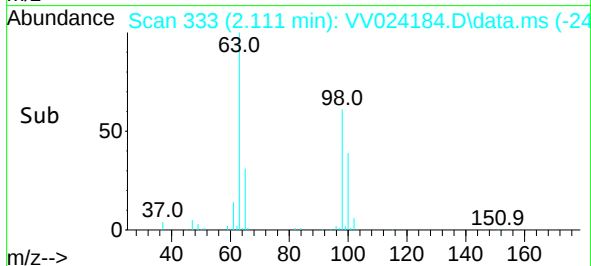
MSVOA_V

ClientSampleId :



Tgt Ion: 96 Resp: 1170

Ion	Ratio	Lower	Upper
96	100		
61	888.2	116.1	215.5#
63	6540.7	79.4	147.4#



#13

Acetone

Concen: 6.580 ug/L

RT: 2.204 min Scan# 362

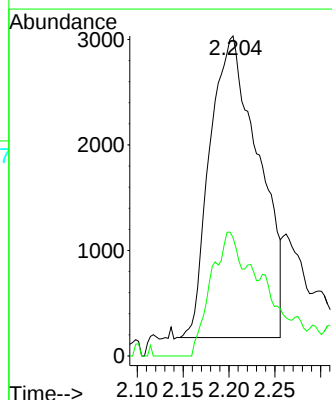
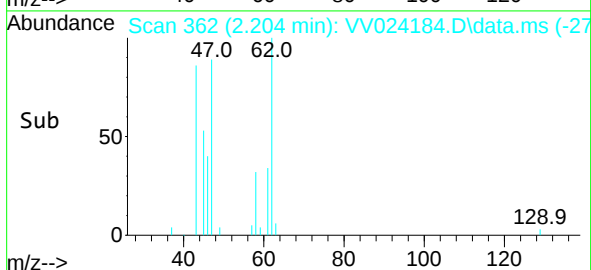
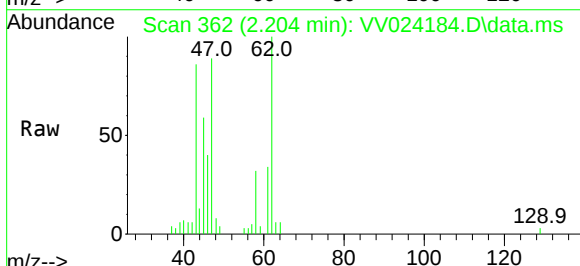
Delta R.T. -0.006 min

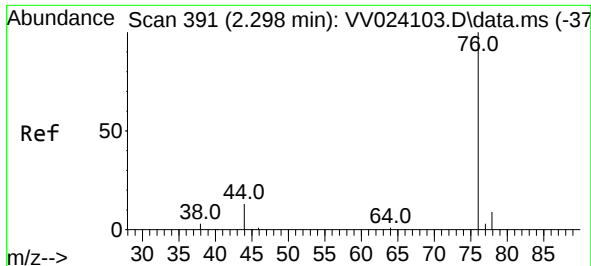
Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Tgt Ion: 43 Resp: 10513

Ion	Ratio	Lower	Upper
43	100		
58	25.4	0.0	41.4





#14

Carbon disulfide

Concen: 0.525 ug/L

RT: 2.298 min Scan# 391

Delta R.T. 0.003 min

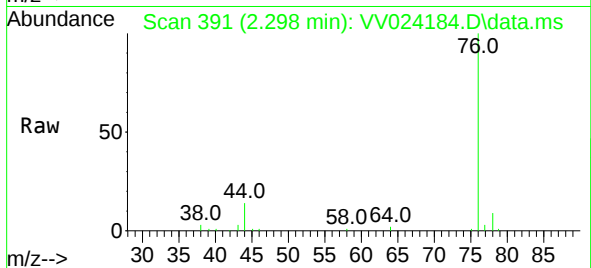
Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Instrument :

MSVOA_V

ClientSampleId :

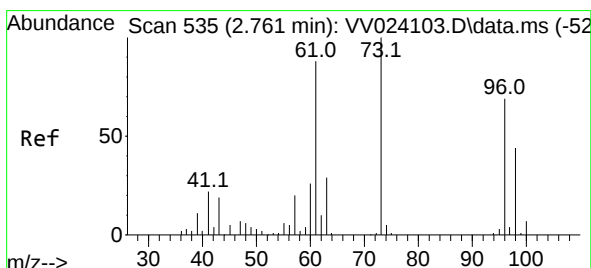
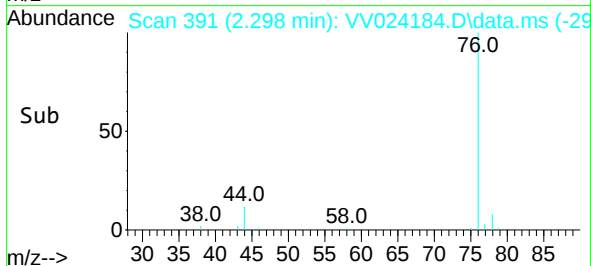
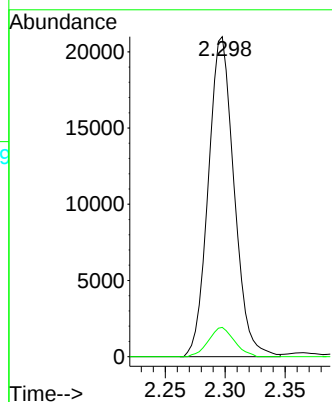


Tgt Ion: 76 Resp: 31370

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3



#18

trans-1,2-Dichloroethene

Concen: 0.075 ug/L

RT: 2.764 min Scan# 536

Delta R.T. 0.003 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

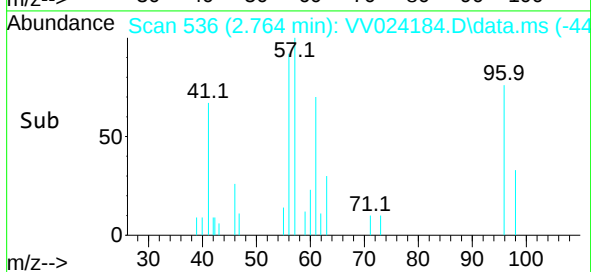
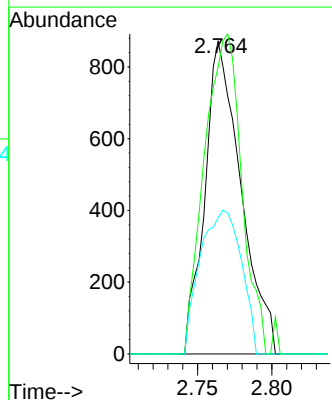
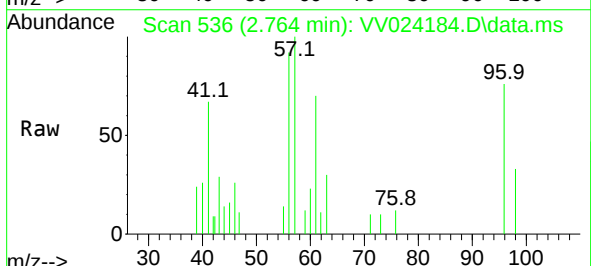
Tgt Ion: 96 Resp: 1475

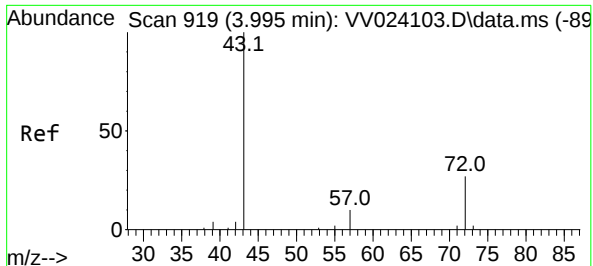
Ion Ratio Lower Upper

96 100

61 91.7 88.2 163.8

98 43.5 44.9 83.5#

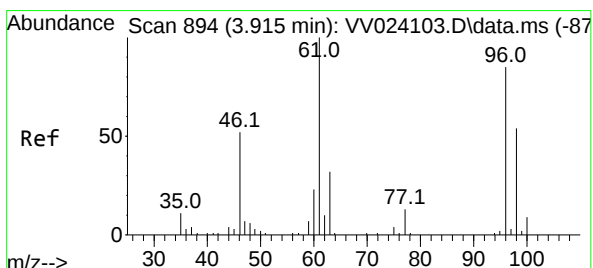
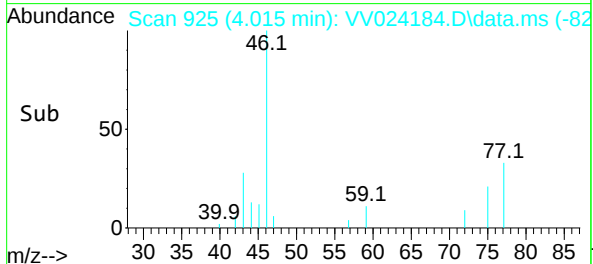
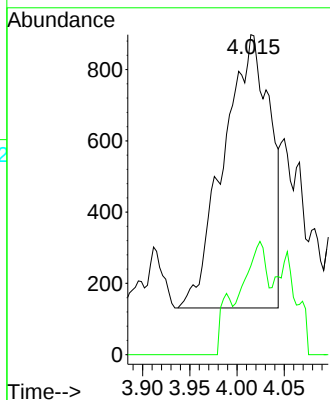
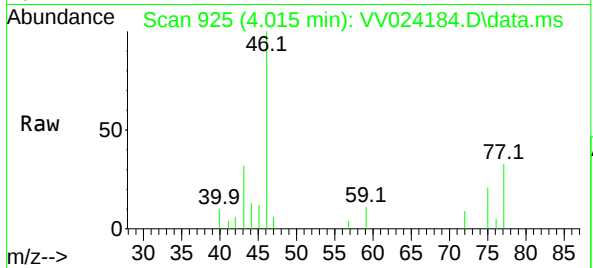




#21
2-Butanone
Concen: 1.246 ug/L
RT: 4.015 min Scan# 919
Delta R.T. 0.019 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

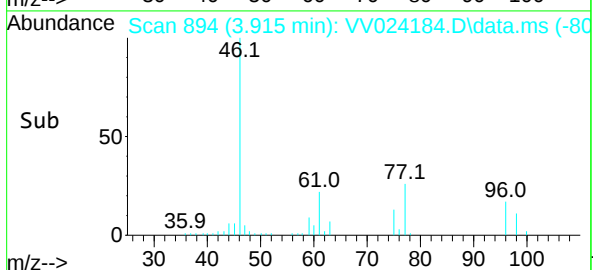
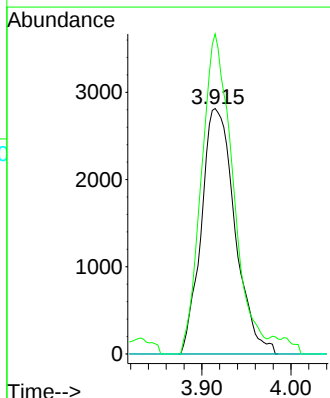
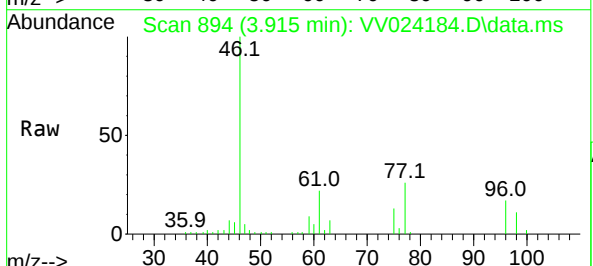
Instrument :
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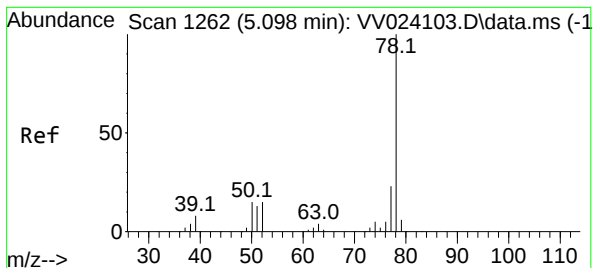
Tgt Ion: 43 Resp: 2619
Ion Ratio Lower Upper
43 100
72 22.1 11.1 33.1



#22
cis-1,2-Dichloroethene
Concen: 0.378 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.003 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

Tgt Ion: 96 Resp: 7353
Ion Ratio Lower Upper
96 100
61 130.4 83.4 154.8
68 0.0 0.0 0.0





#33

Benzene

Concen: 1.169 ug/L

RT: 5.101 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV024184.D

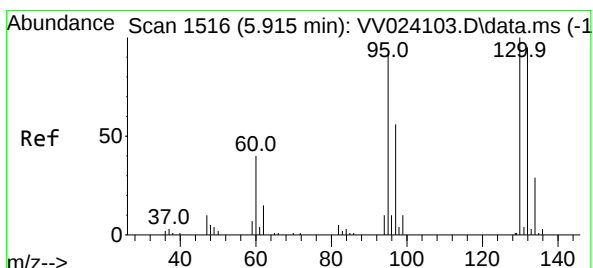
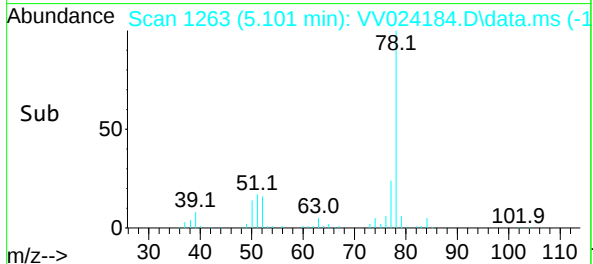
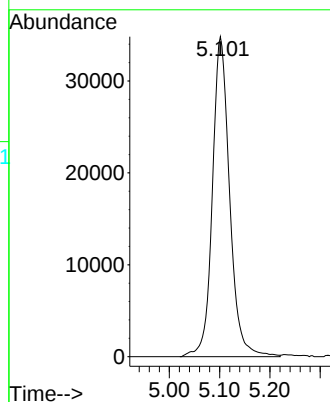
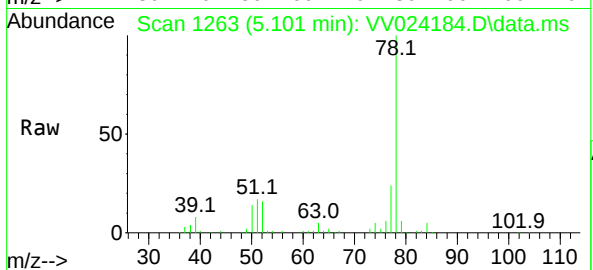
Acq: 27 Dec 2021 17:03

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 82867



#34

Trichloroethene

Concen: 0.735 ug/L

RT: 5.915 min Scan# 1516

Delta R.T. 0.003 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Tgt Ion: 95 Resp: 14704

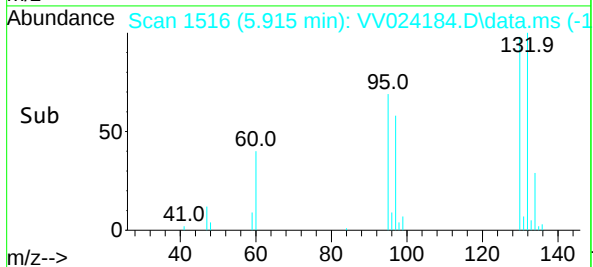
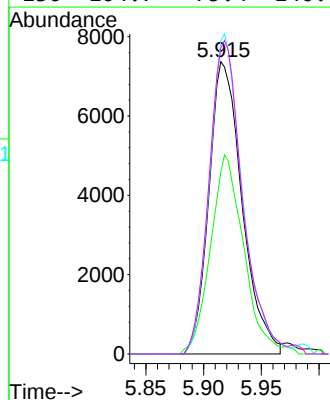
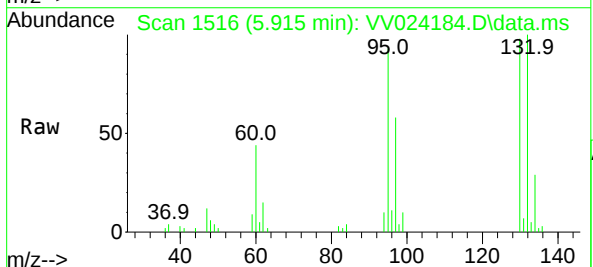
Ion Ratio Lower Upper

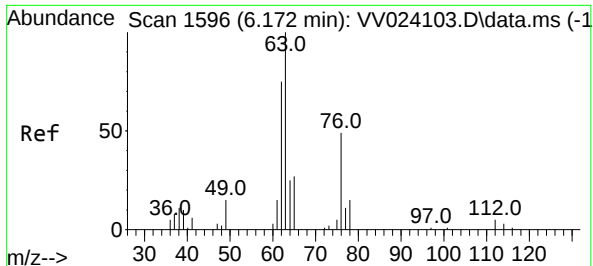
95 100

97 62.3 45.2 84.0

132 107.4 76.1 141.3

130 104.7 75.4 140.0





#37

1,2-Dichloropropane

Concen: 0.390 ug/L

RT: 6.072 min Scan# 11

Delta R.T. -0.100 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Instrument :

MSVOA_V

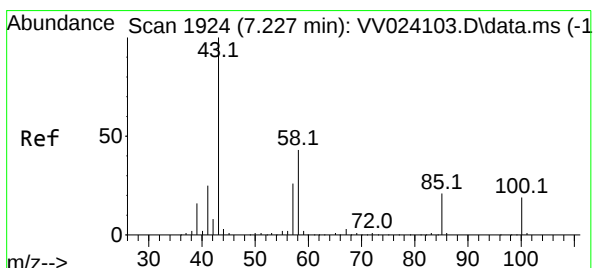
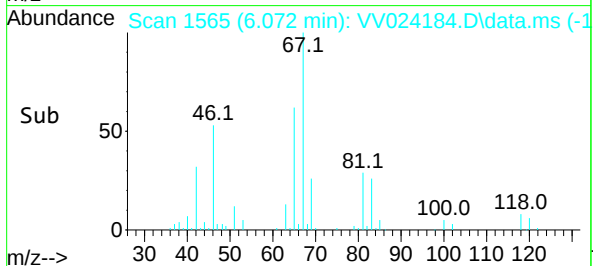
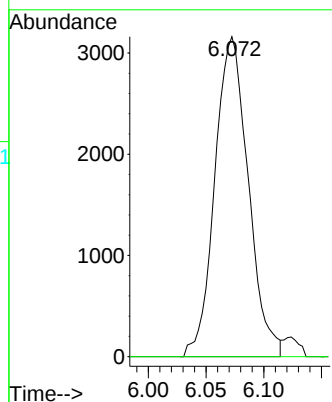
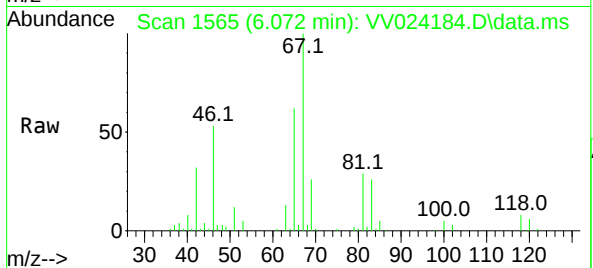
ClientSampleId :

Tgt Ion: 63 Resp: 6376

Ion Ratio Lower Upper

63 100

112 0.0 4.3 6.5#



#40

4-Methyl-2-pentanone

Concen: 1.621 ug/L

RT: 7.236 min Scan# 1927

Delta R.T. 0.010 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

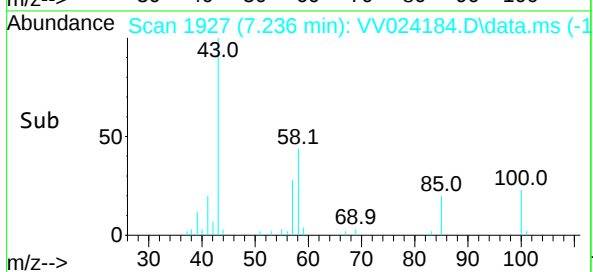
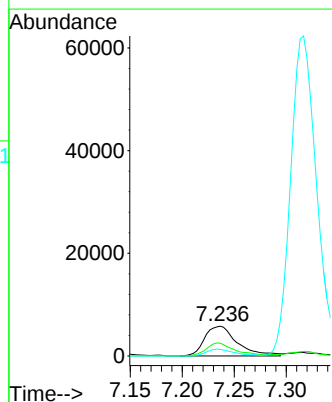
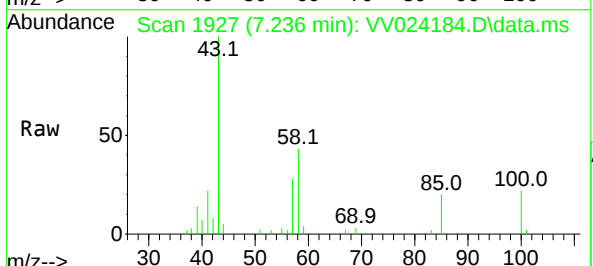
Tgt Ion: 43 Resp: 12661

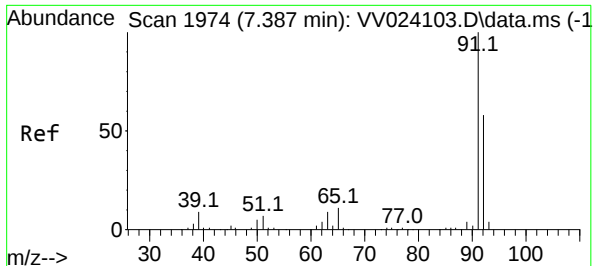
Ion Ratio Lower Upper

43 100

58 37.9 32.3 48.5

100 0.0 13.0 19.6#





#42

Toluene

Concen: 1.450 ug/L

RT: 7.387 min Scan# 1974

Delta R.T. 0.000 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Instrument :

MSVOA_V

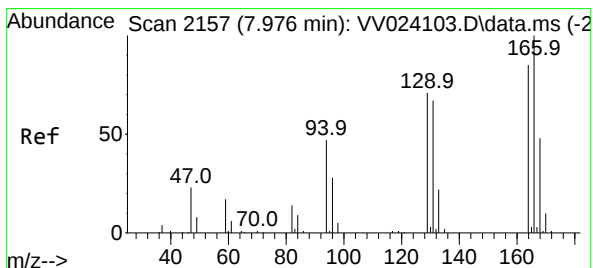
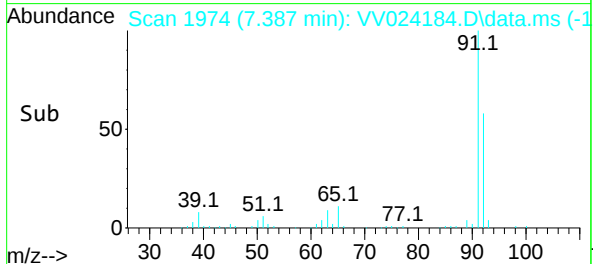
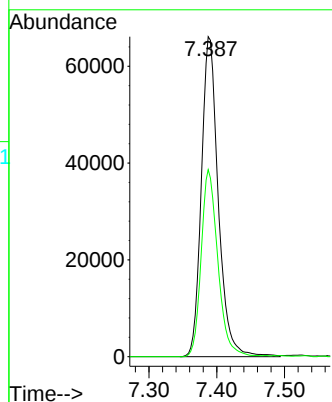
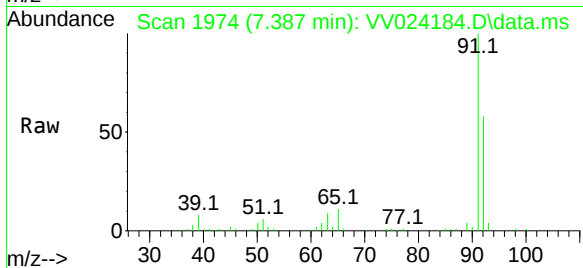
ClientSampleId :

Tgt Ion: 91 Resp: 114627

Ion Ratio Lower Upper

91 100

92 58.5 41.5 77.1



#47

Tetrachloroethene

Concen: 0.549 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.000 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Tgt Ion: 164 Resp: 9768

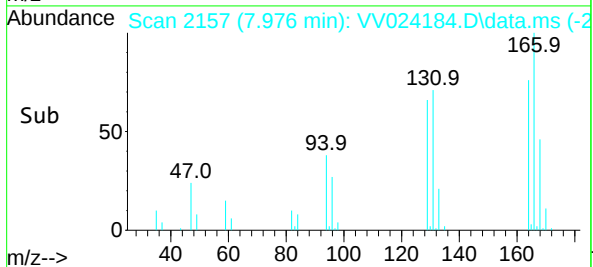
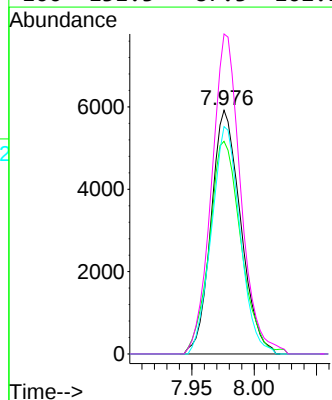
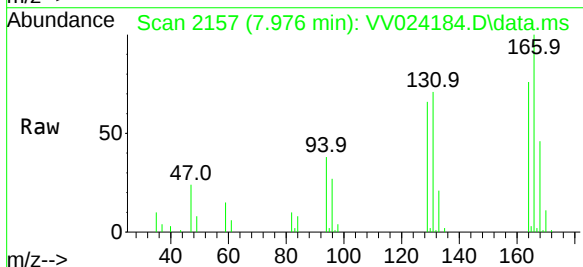
Ion Ratio Lower Upper

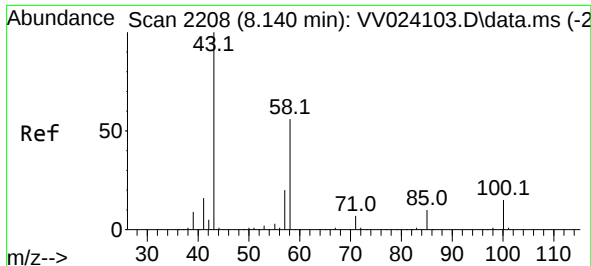
164 100

129 87.3 62.6 116.2

131 93.3 61.0 113.4

166 131.3 87.3 162.1

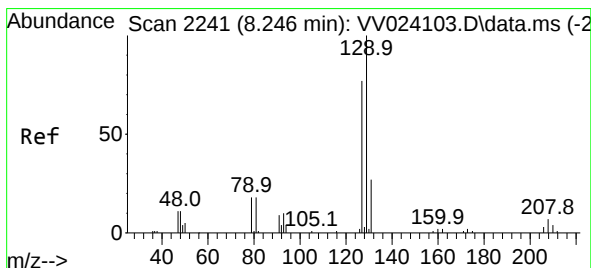
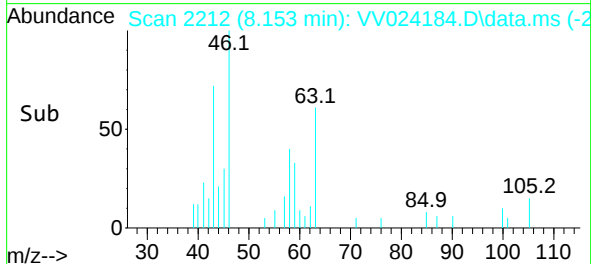
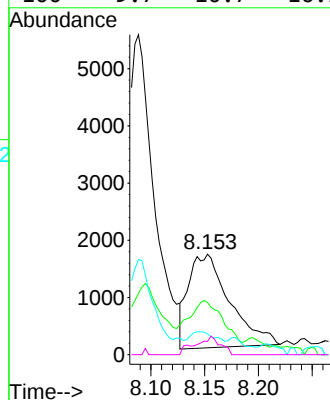
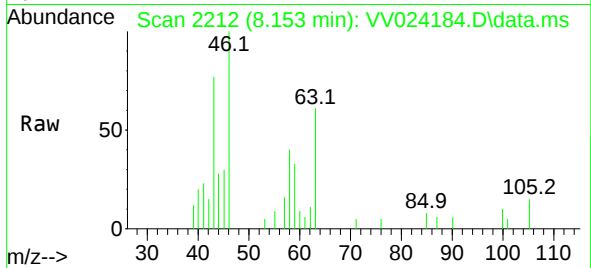




#48
2-Hexanone
Concen: 0.765 ug/L
RT: 8.153 min Scan# 2157
Delta R.T. 0.010 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

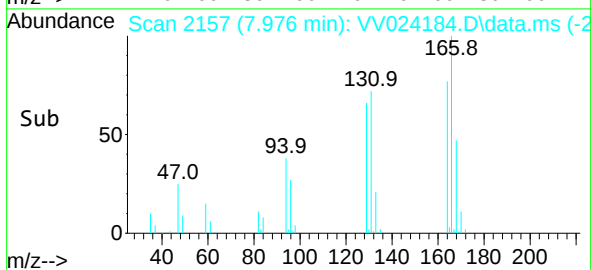
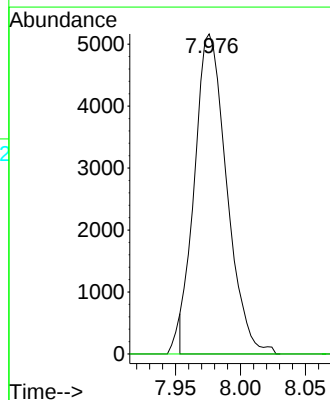
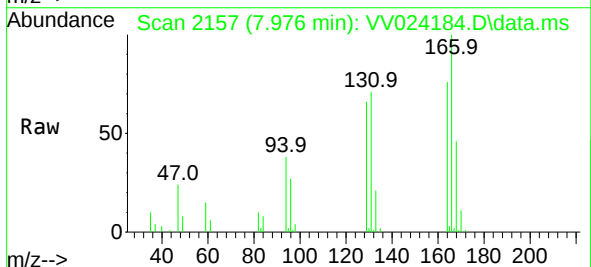
Instrument :
MSVOA_V
ClientSampleId :

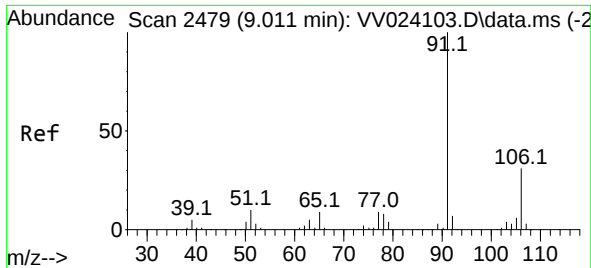
Tgt Ion: 43	Resp: 4372
Ion Ratio	Lower Upper
43	100
58	46.2 44.5 66.7
57	17.4 15.1 22.7
100	9.7 10.7 16.1#



#49
Dibromochloromethane
Concen: 0.544 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.270 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

Tgt Ion: 129	Resp: 8856
Ion Ratio	Lower Upper
129	100
127	0.0 53.5 99.3#





#52

Ethylbenzene

Concen: 0.432 ug/L

RT: 9.014 min Scan# 2479

Delta R.T. 0.003 min

Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Instrument :

MSVOA_V

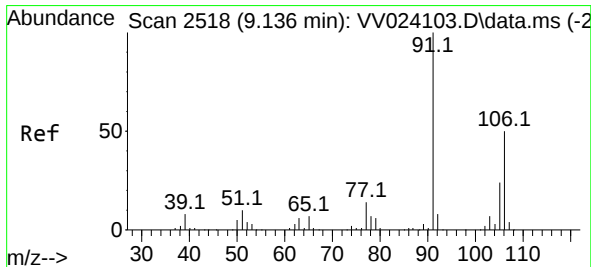
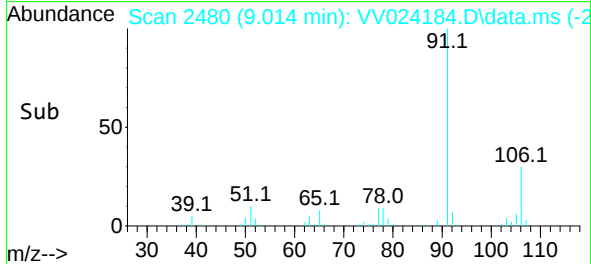
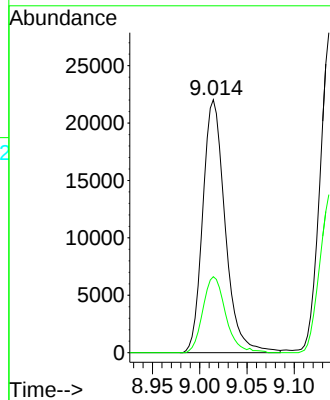
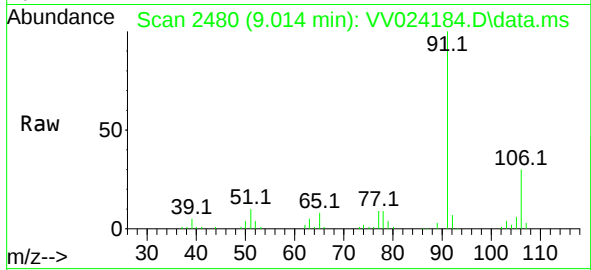
ClientSampleId :

Tgt Ion: 91 Resp: 36315

Ion Ratio Lower Upper

91 100

106 30.1 22.0 41.0



#53

m,p-xylene

Concen: 0.725 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.003 min

Lab File: VV024184.D

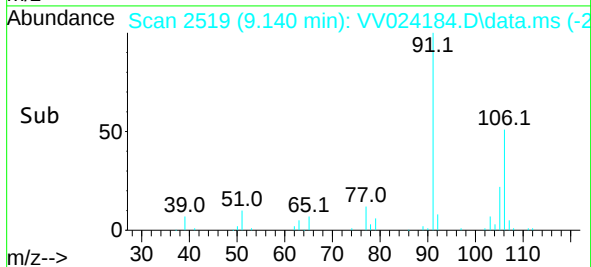
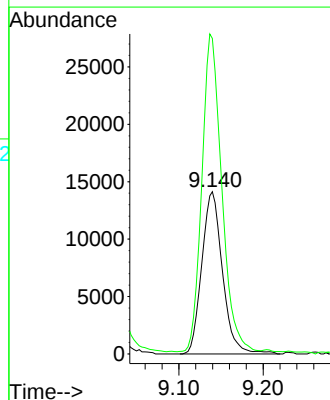
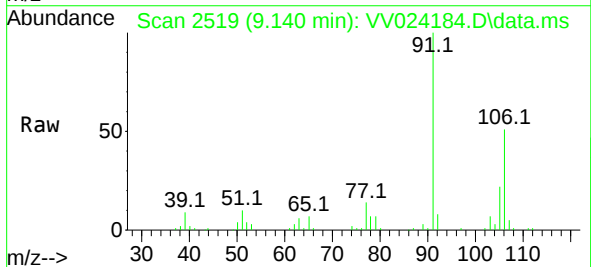
Acq: 27 Dec 2021 17:03

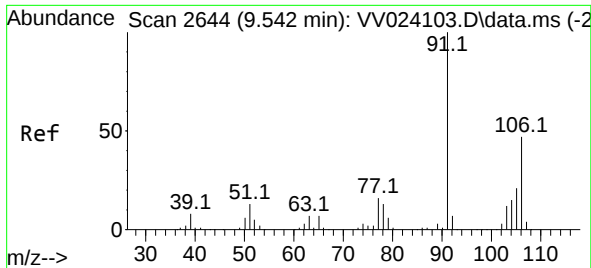
Tgt Ion: 106 Resp: 24173

Ion Ratio Lower Upper

106 100

91 194.5 139.5 259.1

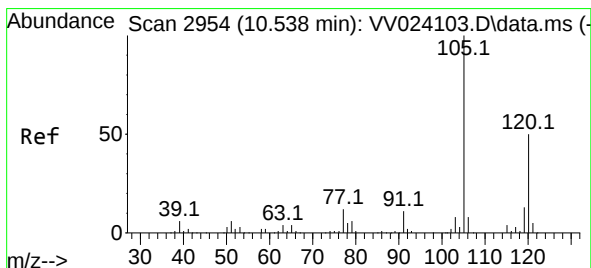
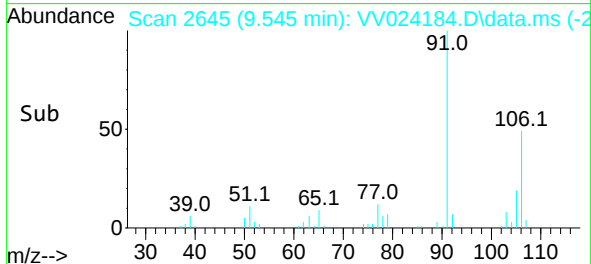
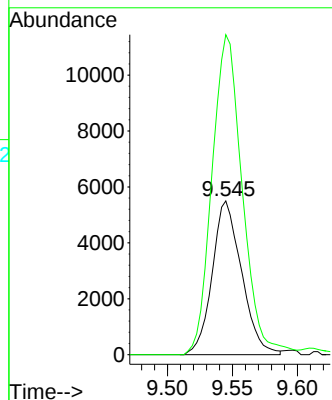
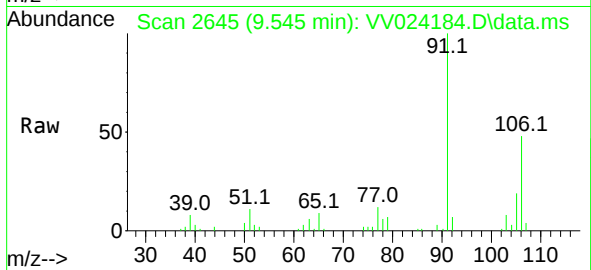




#54
o-xylene
Concen: 0.271 ug/L
RT: 9.545 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

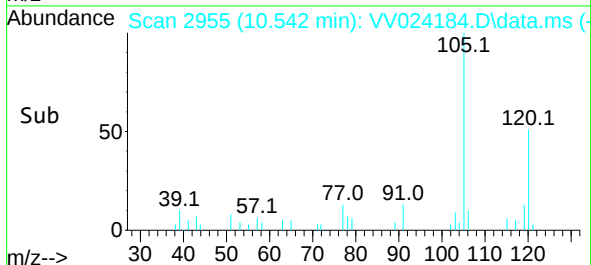
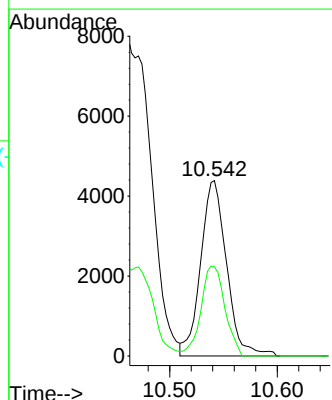
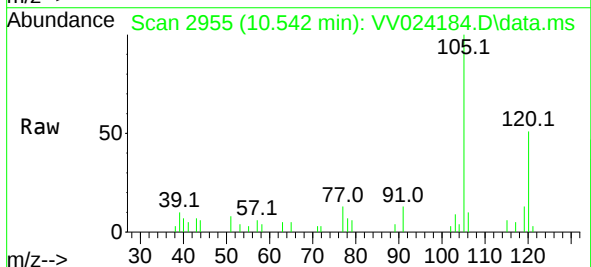
Instrument :
MSVOA_V
ClientSampleId :

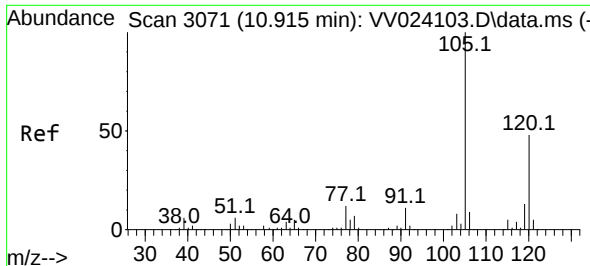
Tgt Ion:106 Resp: 8642
Ion Ratio Lower Upper
106 100
91 208.2 147.9 274.7



#62
1,3,5-Trimethylbenzene
Concen: 0.106 ug/L
RT: 10.542 min Scan# 2955
Delta R.T. 0.003 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

Tgt Ion:105 Resp: 7339
Ion Ratio Lower Upper
105 100
120 47.5 40.1 60.1

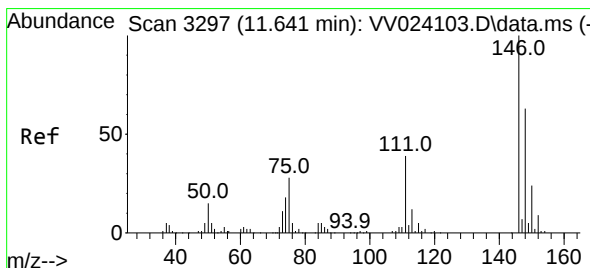
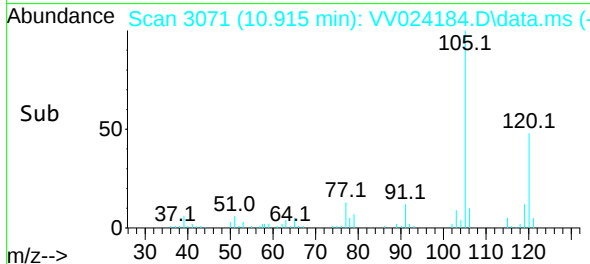
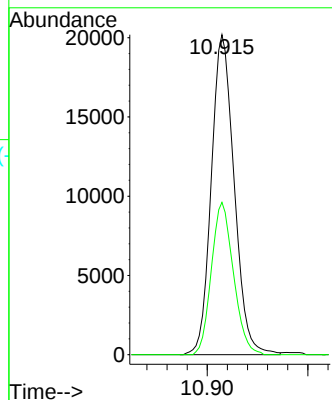
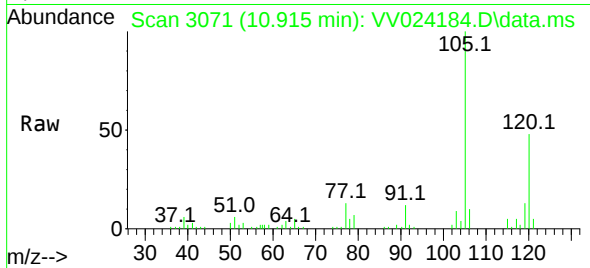




#63
 1,2,4-Trimethylbenzene
 Concen: 0.451 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. 0.000 min
 Lab File: VV024184.D
 Acq: 27 Dec 2021 17:03

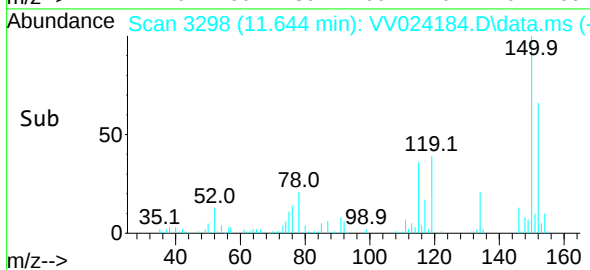
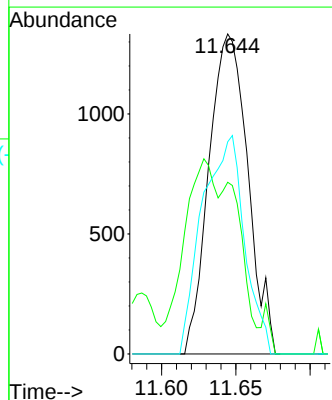
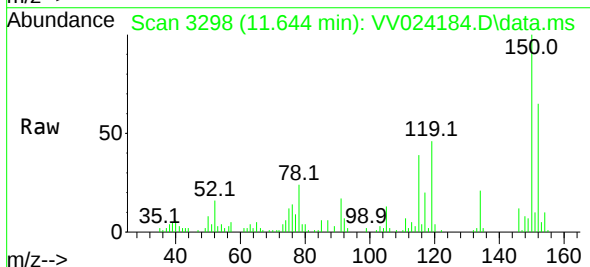
Instrument :
 MSVOA_V
 ClientSampleId :

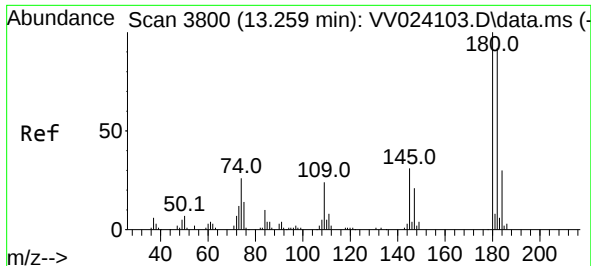
Tgt Ion:105 Resp: 31896
 Ion Ratio Lower Upper
 105 100
 120 45.8 36.7 55.1



#67
 1,2-Dichlorobenzene
 Concen: 0.063 ug/L
 RT: 11.644 min Scan# 3298
 Delta R.T. 0.003 min
 Lab File: VV024184.D
 Acq: 27 Dec 2021 17:03

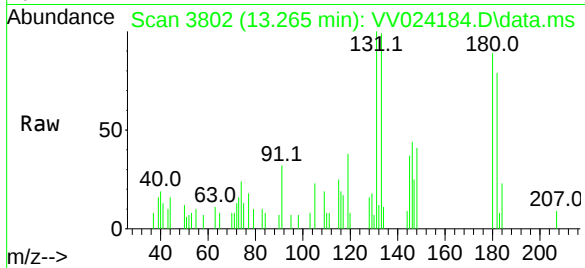
Tgt Ion:146 Resp: 2432
 Ion Ratio Lower Upper
 146 100
 111 53.6 31.9 47.9#
 148 66.3 50.5 75.7



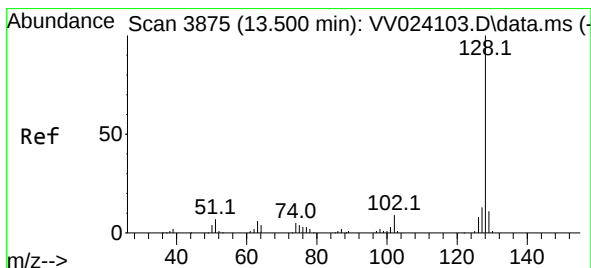
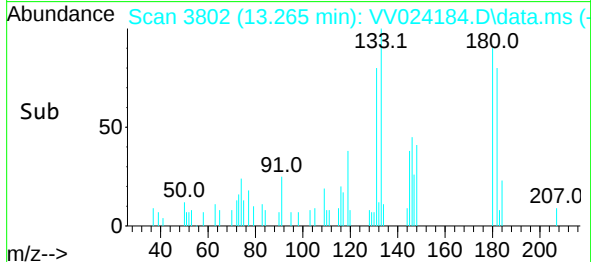
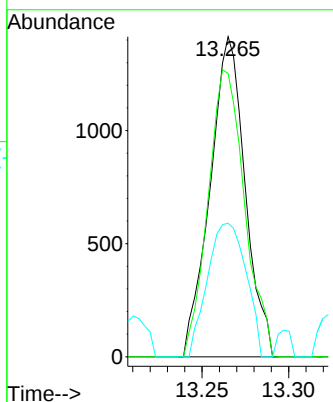


#70
1,2,4-trichlorobenzene
Concen: 0.076 ug/L
RT: 13.265 min Scan# 3802
Delta R.T. 0.006 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

Instrument :
MSVOA_V
ClientSampleId :

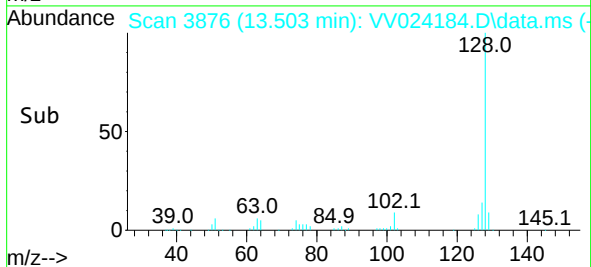
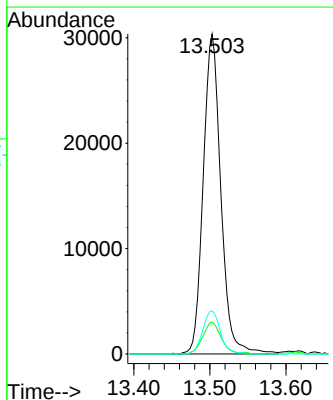
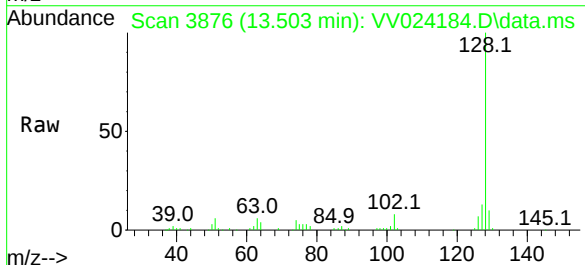


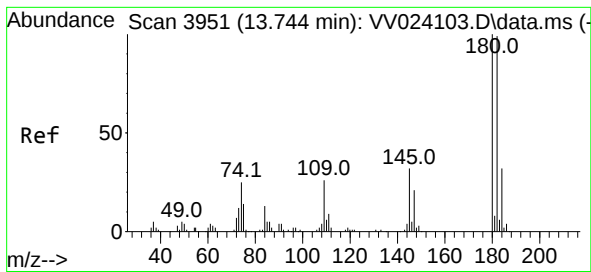
Tgt Ion:180 Resp: 1992
Ion Ratio Lower Upper
180 100
182 93.3 74.4 111.6
145 45.8 23.3 34.9#



#71
Naphthalene
Concen: 1.260 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.000 min
Lab File: VV024184.D
Acq: 27 Dec 2021 17:03

Tgt Ion:128 Resp: 48891
Ion Ratio Lower Upper
128 100
129 10.3 9.0 13.4
127 13.4 10.2 15.4





#72

1,2,3-Trichlorobenzene

Concen: 0.092 ug/L

RT: 13.744 min Scan# 3951

Delta R.T. 0.000 min

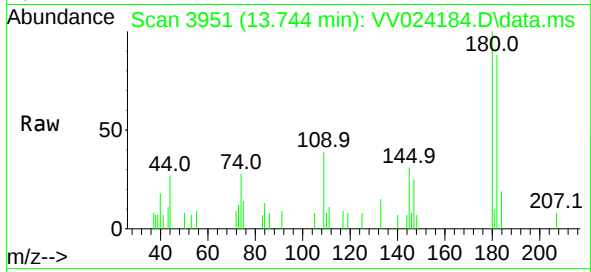
Lab File: VV024184.D

Acq: 27 Dec 2021 17:03

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 2104

Ion Ratio Lower Upper

180 100

182 99.5 76.8 115.2

145 43.4 25.8 38.6#

