

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY011520\
 Data File : VY001245.D
 Acq On : 16 Jan 2020 02:18
 Operator : SY/MD
 Sample : L1136-09
 Misc : 9.31G/5ML/MSVOA_Y/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WP022SB457_200113_FD_36-38

Quant Time: Jan 16 04:57:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 10 16:01:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	171380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	305230	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	259080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	125320	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	98751	54.56	ug/l	0.00
Spiked Amount			Recovery	=	109.12%	
35) Dibromofluoromethane	7.73	113	90121	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	10.18	98	351679	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.48	95	128281	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	

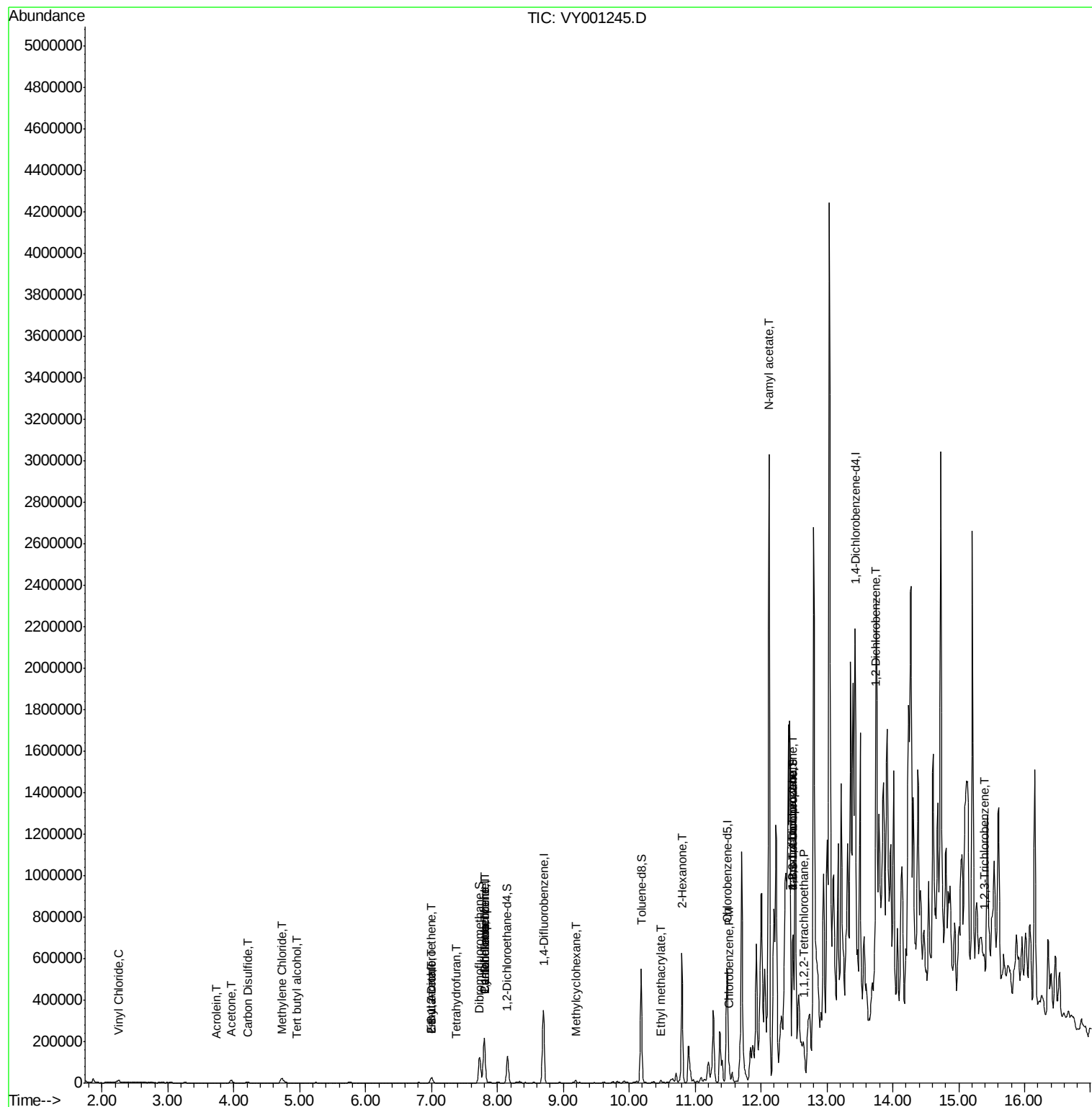
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.25	62	6181	3.234	ug/l	100
11) Tert butyl alcohol	4.95	59	494	2.713	ug/l #	73
13) Acrolein	3.74	56	186	1.134	ug/l #	1
16) Acetone	3.96	43	22535	53.607	ug/l	98
17) Carbon Disulfide	4.21	76	9791	1.727	ug/l #	94
20) Methylene Chloride	4.73	84	15825	2.872	ug/l	89
25) 2-Butanone	7.00	43	7636	11.671	ug/l #	88
27) cis-1,2-Dichloroethene	7.00	96	12204	5.606	ug/l	89
29) Tetrahydrofuran	7.37	42	509	1.135	ug/l #	47
31) Cyclohexane	7.80	56	5687	1.624	ug/l #	24
36) 1,1-Dichloropropene	7.80	75	13153	4.728	ug/l #	48
37) Ethyl Acetate	7.00	43	7636	4.677	ug/l #	1
38) Carbon Tetrachloride	7.80	117	15842	6.214	ug/l #	15
39) Methylcyclohexane	9.19	83	4533	1.202	ug/l	88
56) Ethyl methacrylate	10.48	69	2965	1.194	ug/l	95
59) 2-Hexanone	10.80	43	234319	211.057	ug/l #	27
65) Chlorobenzene	11.52	112	29156	5.632	ug/l	96
74) N-amyl acetate	12.12	43	618583	210.389	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.64	83	16647	8.398	ug/l #	26
76) 1,2,3-Trichloropropane	12.48	75	59808	44.581	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	59808	75.599	ug/l #	15
91) 1,2-Dichlorobenzene	13.73	146	3730	1.019	ug/l #	71
96) 1,2,3-Trichlorobenzene	15.39	180	4862	2.288	ug/l #	47

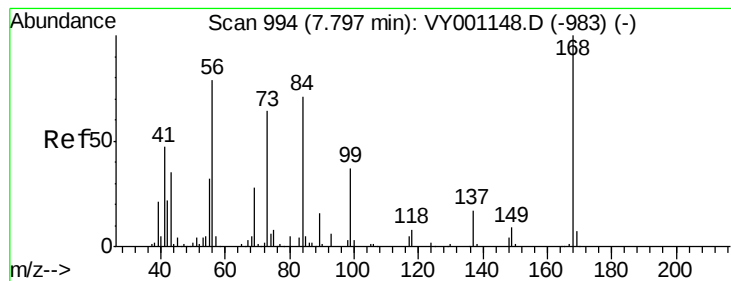
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

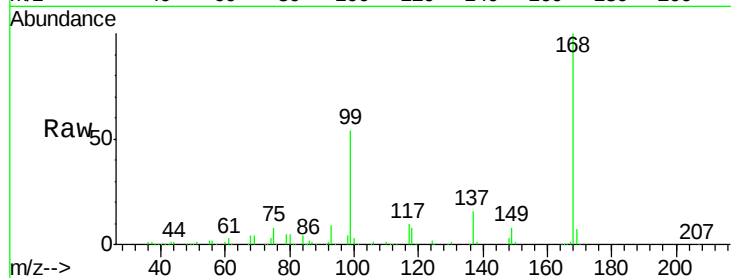
WP022SB457_200113_FD_36-38

Tgt Ion:168 Resp: 171380

Ion Ratio Lower Upper

168 100

99 53.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001148.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001148.D (-983) (-)

7.80

80000

60000

40000

20000

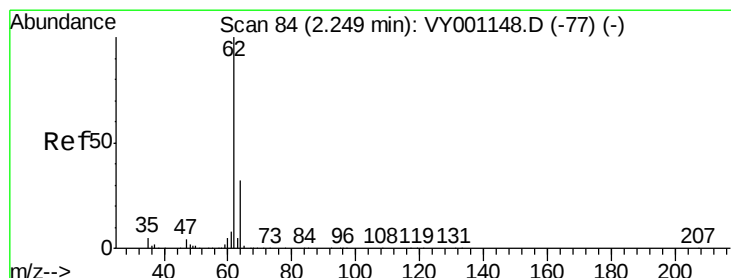
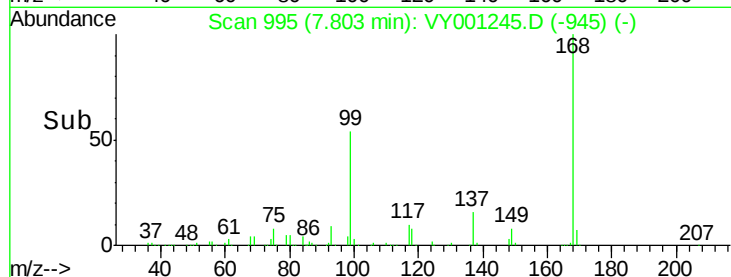
0

7.70

7.80

7.90

Time-->



#4

Vinyl Chloride

Concen: 3.234 ug/l

RT: 2.25 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY001245.D

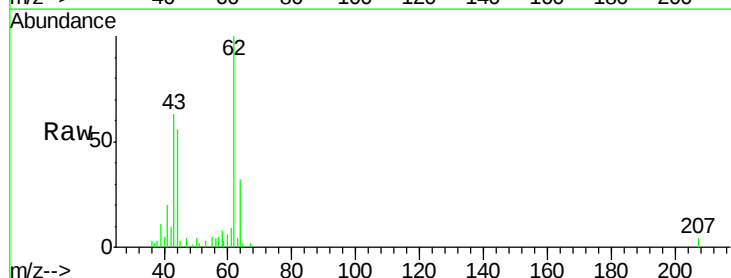
Acq: 16 Jan 2020 02:18

Tgt Ion: 62 Resp: 6181

Ion Ratio Lower Upper

62 100

64 32.5 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VY001148.D (-77) (-)

Ion 63.90 (63.60 to 64.60): VY001148.D (-77) (-)

2.25

4000

3000

2000

1000

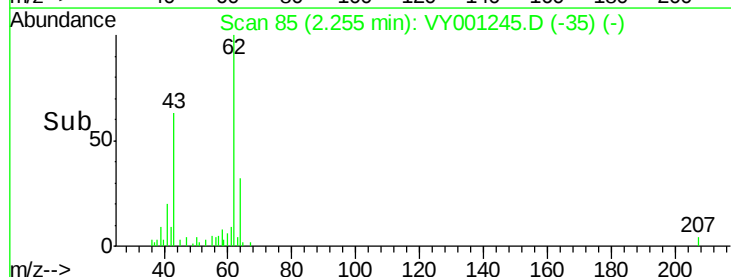
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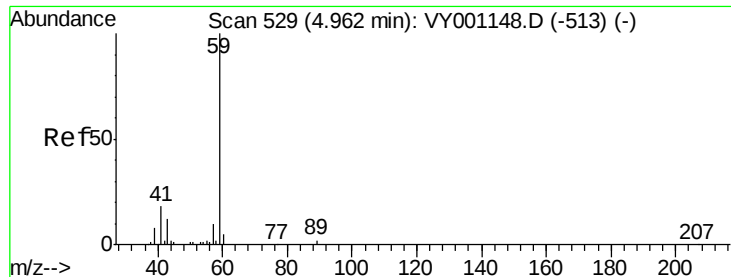
2.20

2.25

2.30

Time-->





#11

Tert butyl alcohol

Concen: 2.713 ug/l

RT: 4.95 min Scan# 527

Delta R.T. -0.01 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

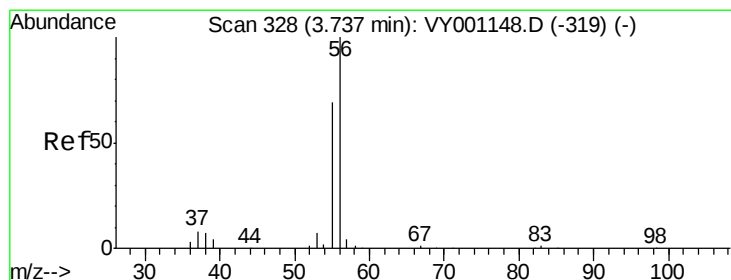
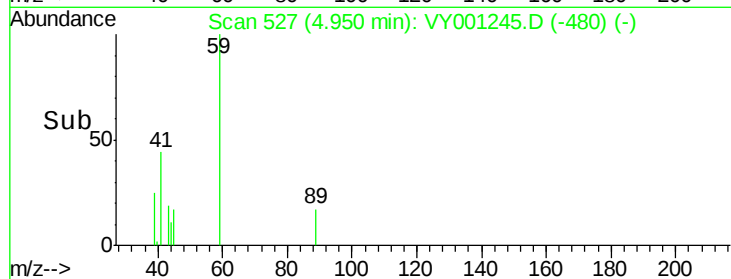
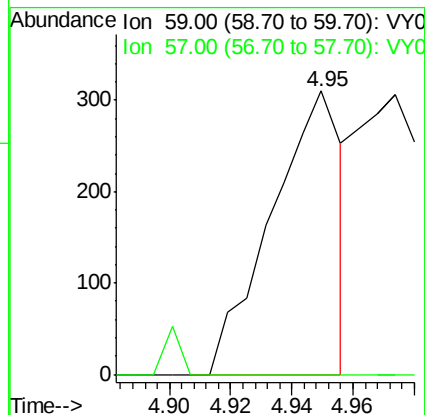
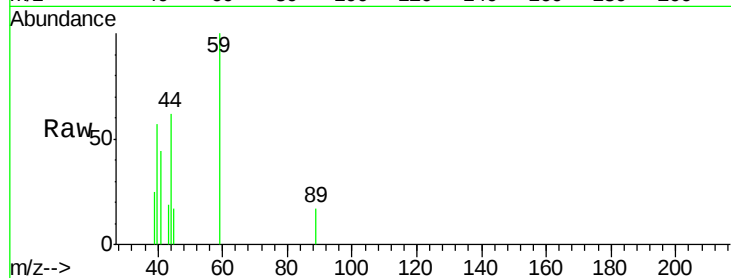
WP022SB457_200113_FD_36-38

Tgt Ion: 59 Resp: 494

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#13

Acrolein

Concen: 1.134 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.00 min

Lab File: VY001245.D

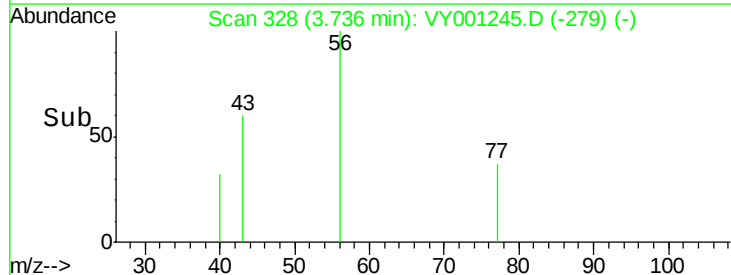
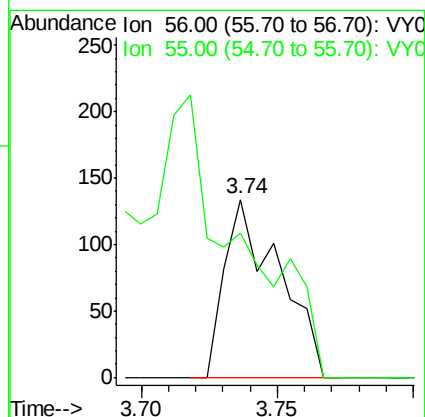
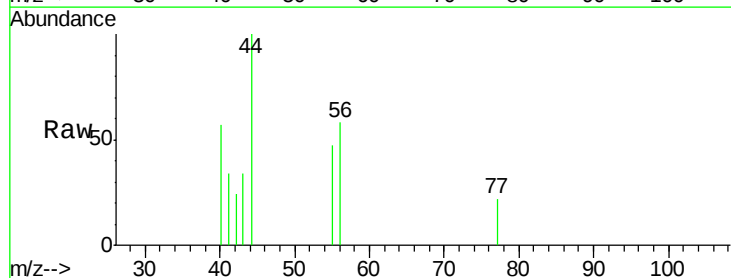
Acq: 16 Jan 2020 02:18

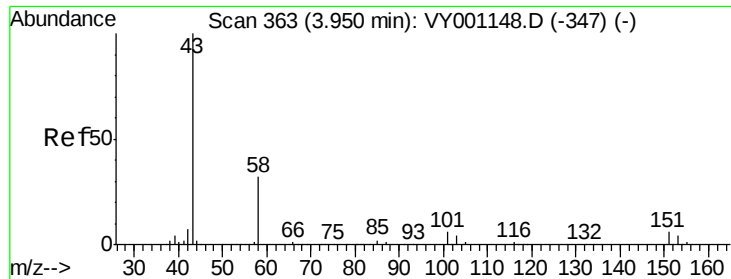
Tgt Ion: 56 Resp: 186

Ion Ratio Lower Upper

56 100

55 226.9 56.7 85.1#





#16

Acetone

Concen: 53.607 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

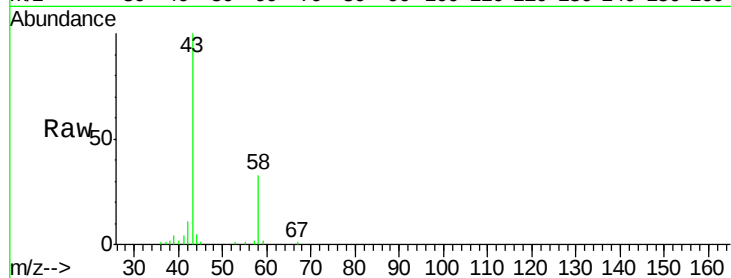
WP022SB457_200113_FD_36-38

Tgt Ion: 43 Resp: 22535

Ion Ratio Lower Upper

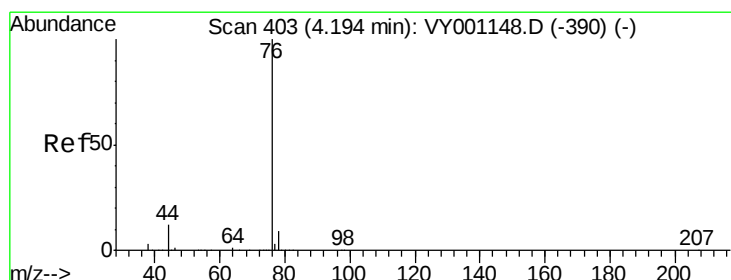
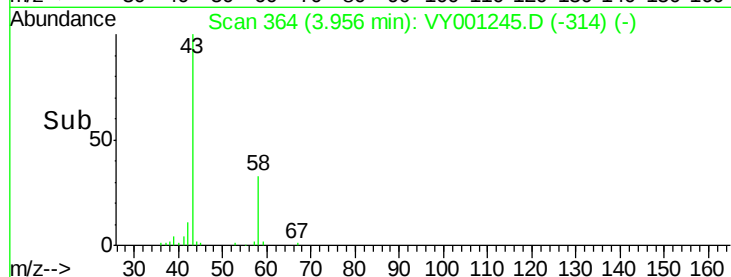
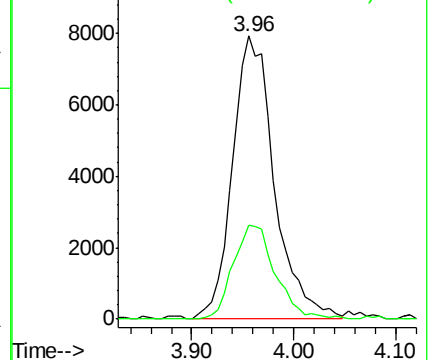
43 100

58 33.1 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: 1.727 ug/l

RT: 4.21 min Scan# 405

Delta R.T. 0.01 min

Lab File: VY001245.D

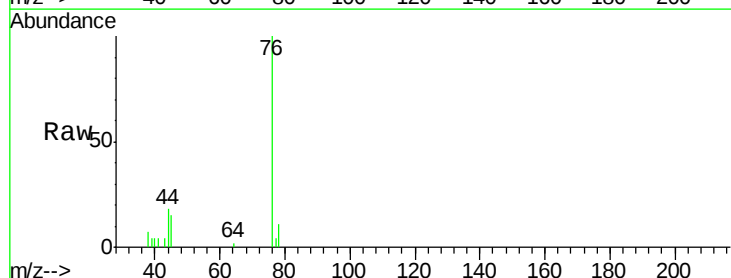
Acq: 16 Jan 2020 02:18

Tgt Ion: 76 Resp: 9791

Ion Ratio Lower Upper

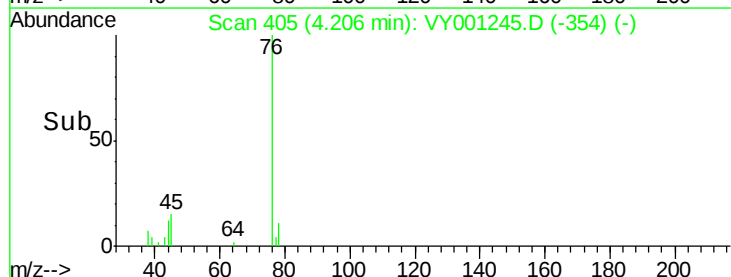
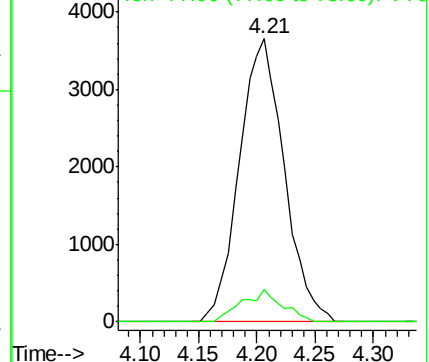
76 100

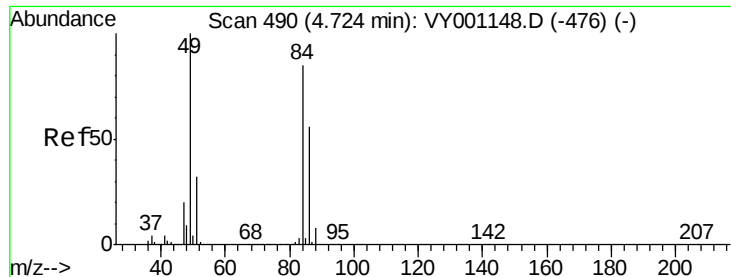
78 11.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

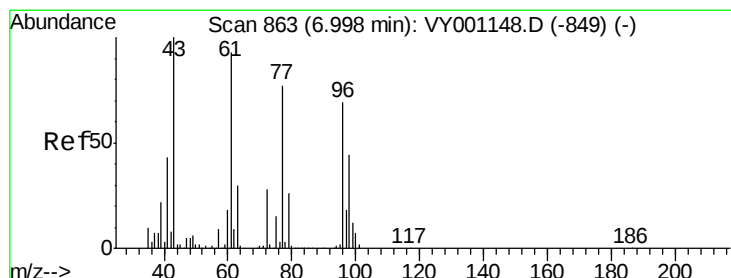
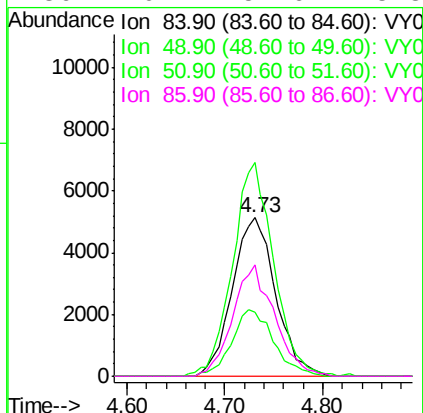
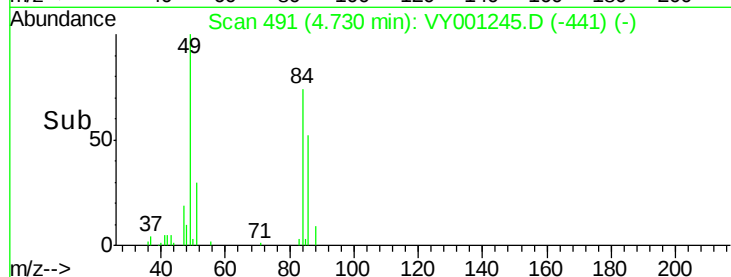
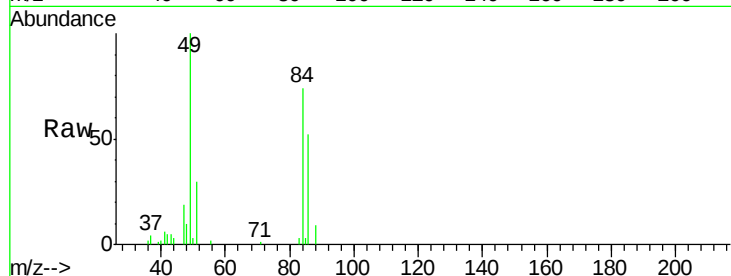




#20
Methylene Chloride
Concen: 2.872 ug/l
RT: 4.73 min Scan# 491
Delta R.T. 0.01 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

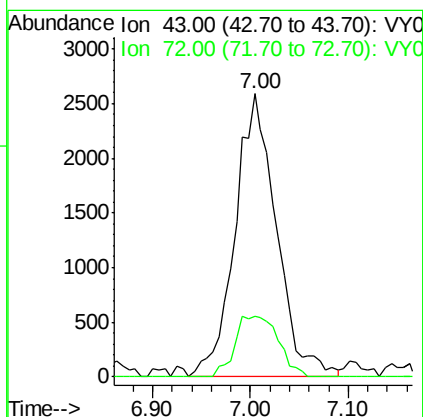
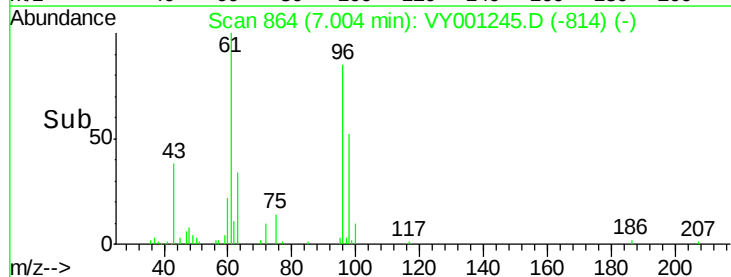
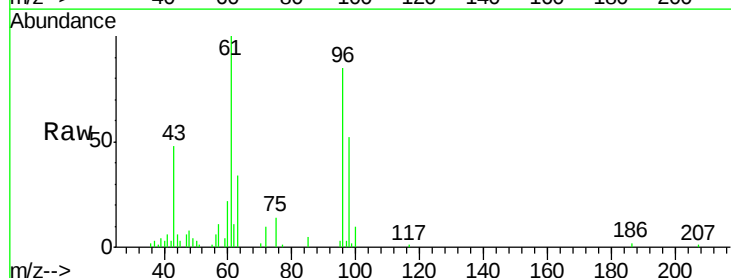
Instrument :
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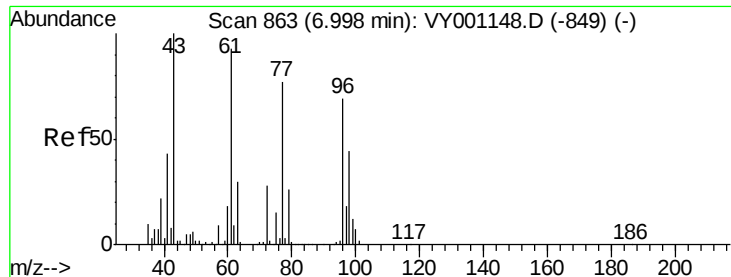
Tgt Ion: 84 Resp: 15825
Ion Ratio Lower Upper
84 100
49 134.7 93.8 140.6
51 40.7 29.9 44.9
86 70.4 52.6 78.8



#25
2-Butanone
Concen: 11.671 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

Tgt Ion: 43 Resp: 7636
Ion Ratio Lower Upper
43 100
72 21.6 22.2 33.2#



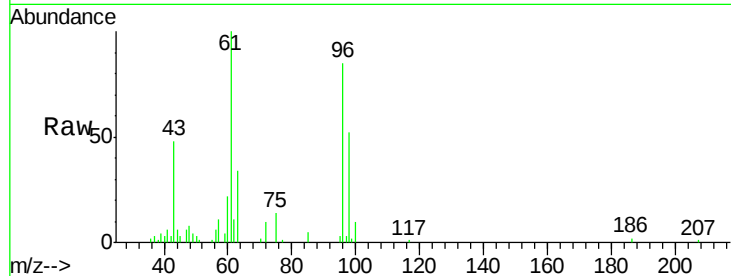


#27

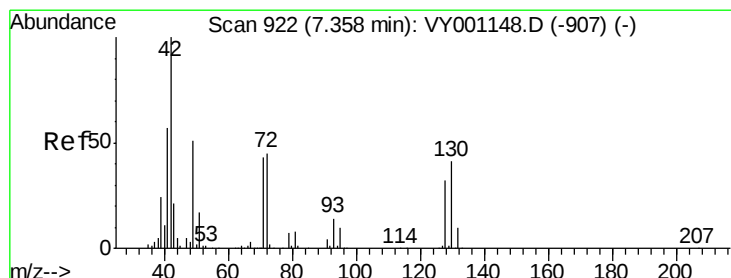
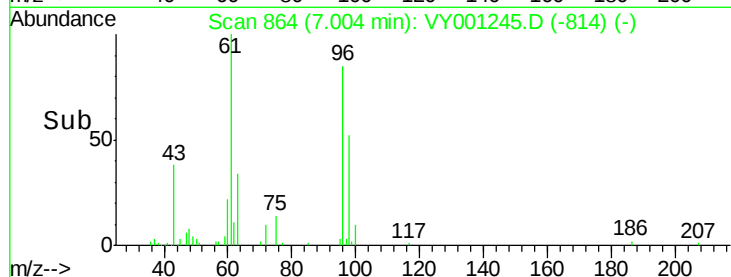
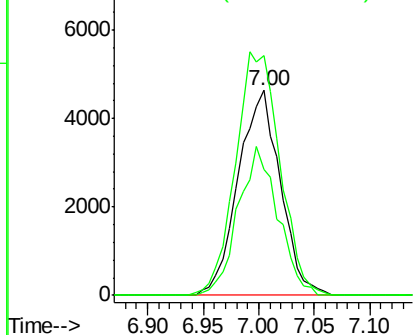
cis-1,2-Dichloroethene
Concen: 5.606 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

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MSVOA_Y
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Tgt Ion: 96 Resp: 12204
Ion Ratio Lower Upper
96 100
61 125.2 0.0 284.0
98 68.2 0.0 130.2



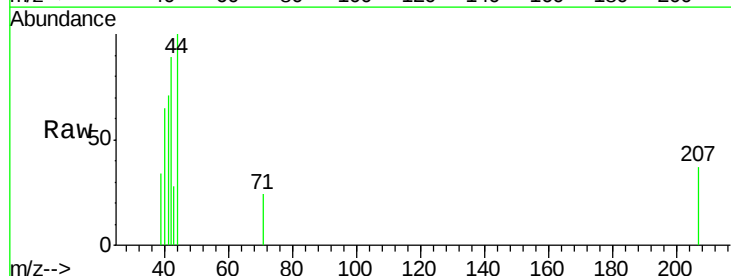
Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



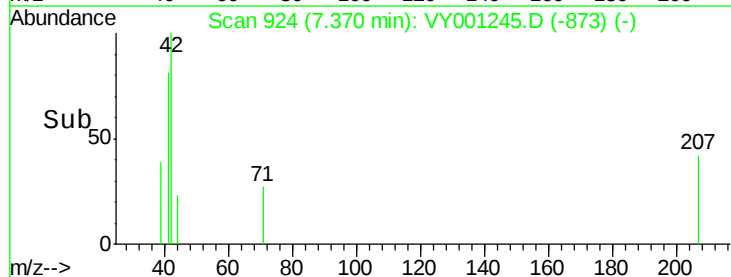
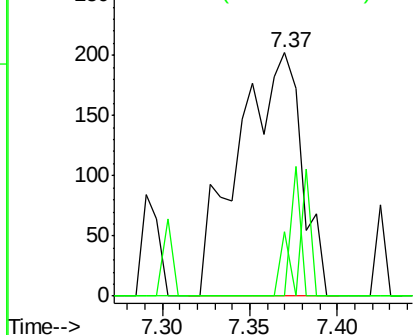
#29

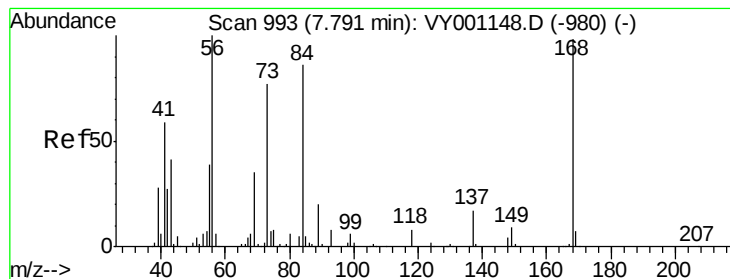
Tetrahydrofuran
Concen: 1.135 ug/l
RT: 7.37 min Scan# 924
Delta R.T. 0.01 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

Tgt Ion: 42 Resp: 509
Ion Ratio Lower Upper
42 100
72 7.9 36.9 55.3#
71 11.6 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0





#31

Cyclohexane

Concen: 1.624 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

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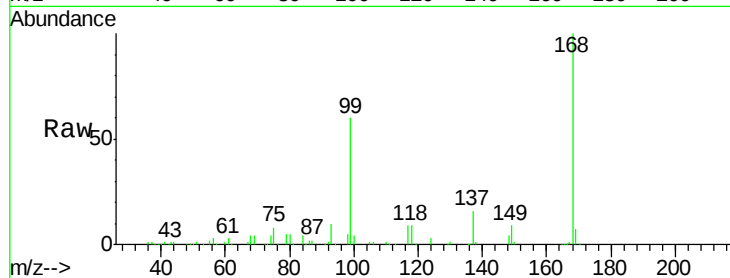
Tgt Ion: 56 Resp: 5687

Ion Ratio Lower Upper

56 100

69 122.1 27.8 41.8#

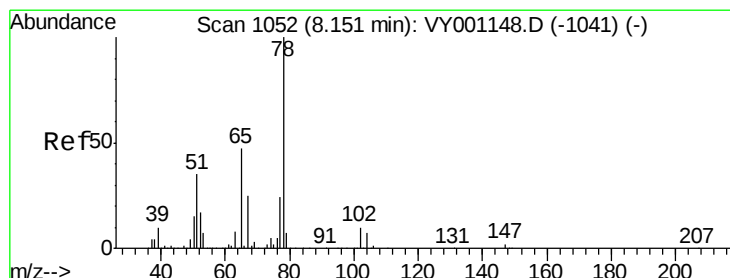
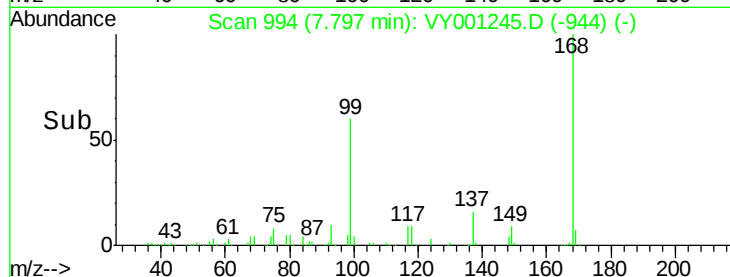
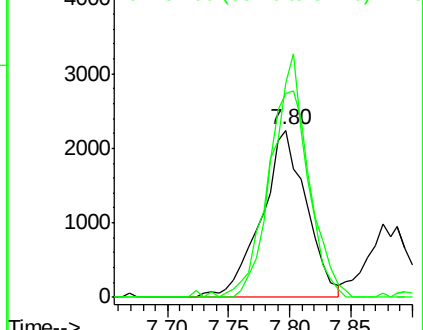
84 127.8 68.9 103.3#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 54.556 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VY001245.D

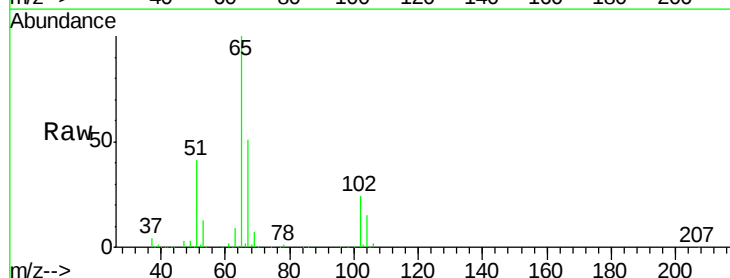
Acq: 16 Jan 2020 02:18

Tgt Ion: 65 Resp: 98751

Ion Ratio Lower Upper

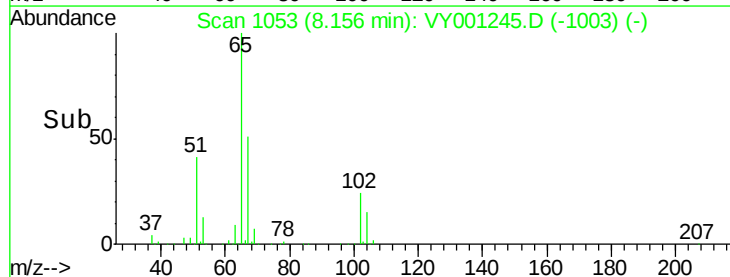
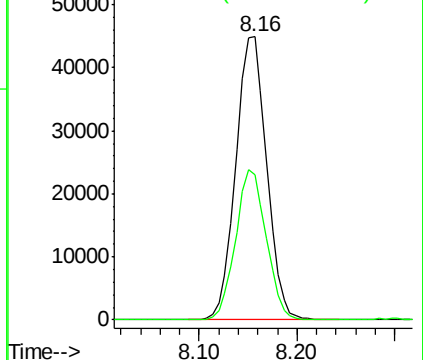
65 100

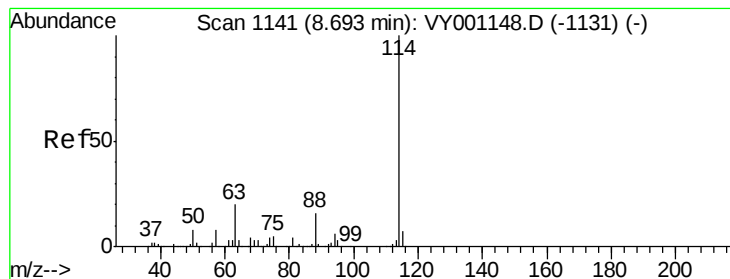
67 52.5 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

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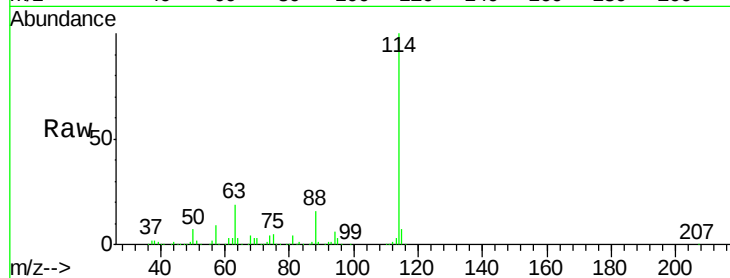
Tgt Ion:114 Resp: 305230

Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.8

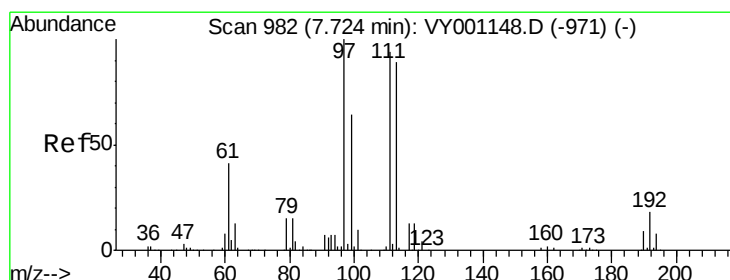
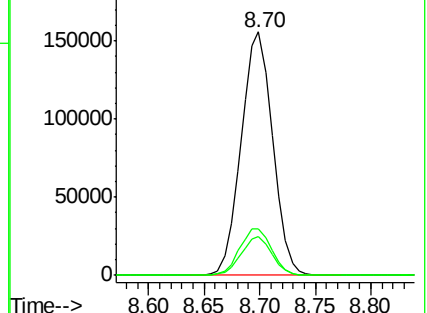
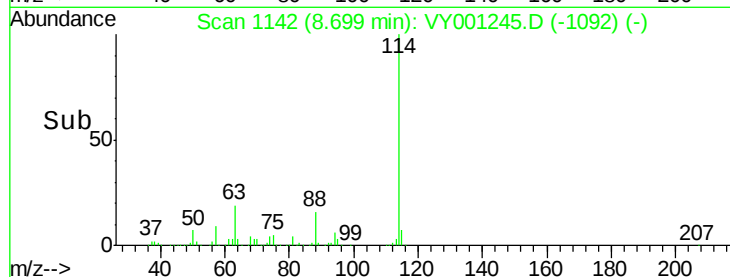
88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 50.428 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.01 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

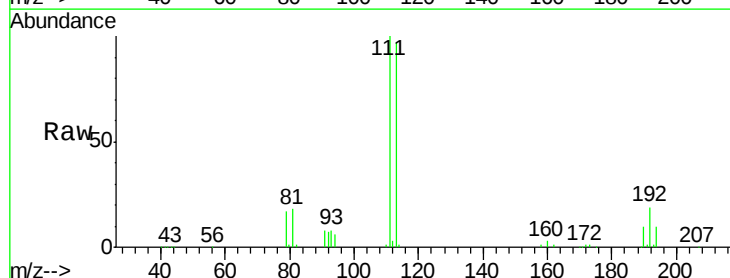
Tgt Ion:113 Resp: 90121

Ion Ratio Lower Upper

113 100

111 102.6 82.9 124.3

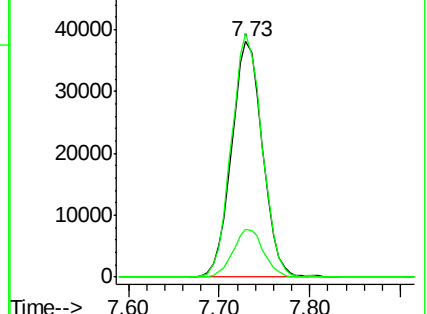
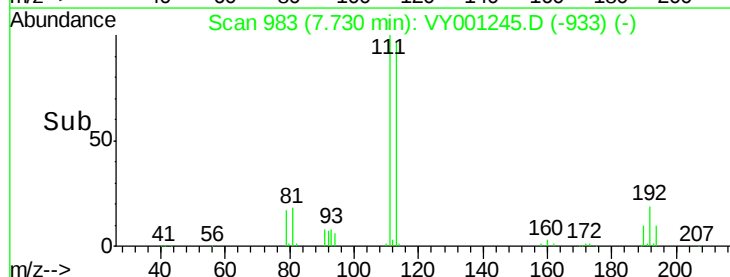
192 19.9 15.4 23.2

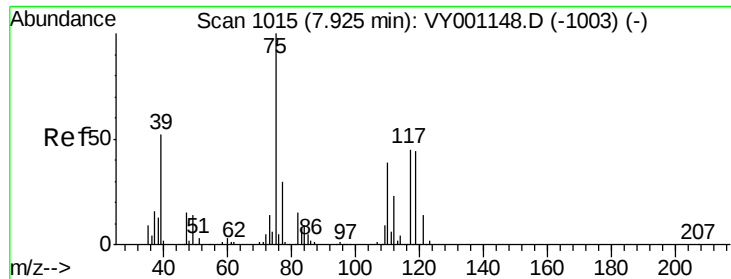


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

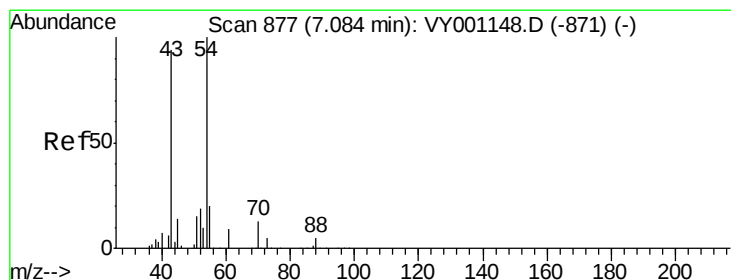
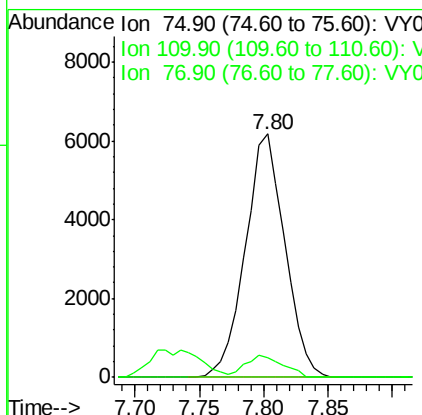
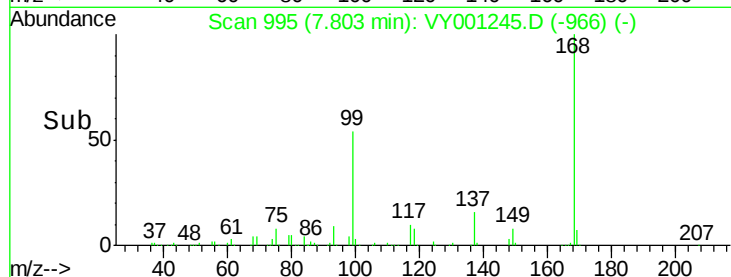
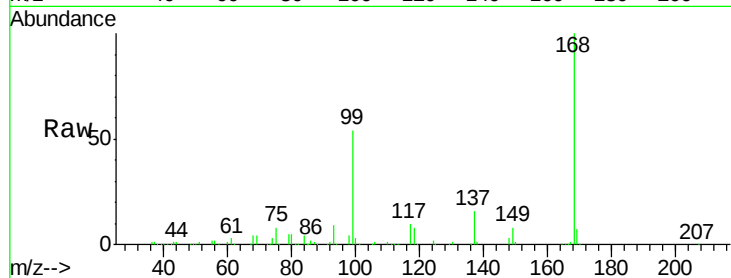




#36
 1,1-Dichloropropene
 Concen: 4.728 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY001245.D
 Acq: 16 Jan 2020 02:18

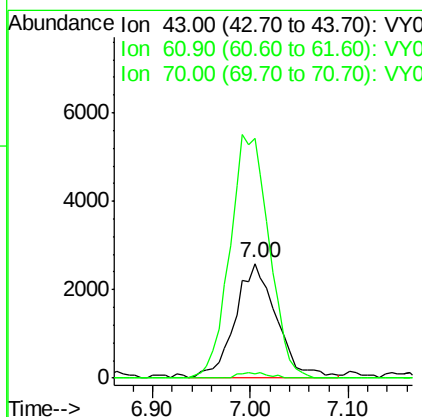
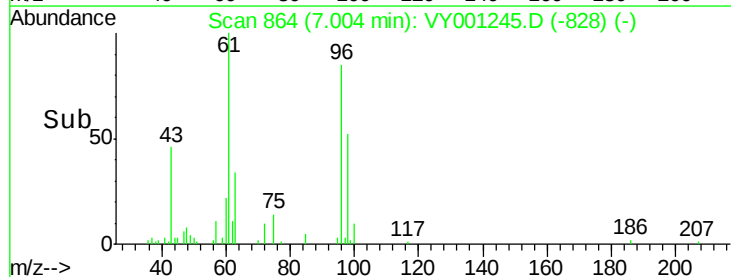
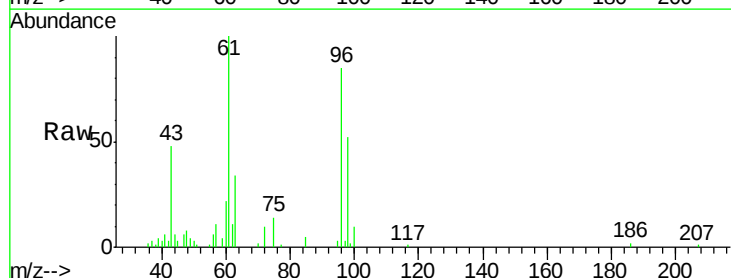
Instrument :
 MSVOA_Y
 ClientSampleId :
 WP022SB457_200113_FD_36-38

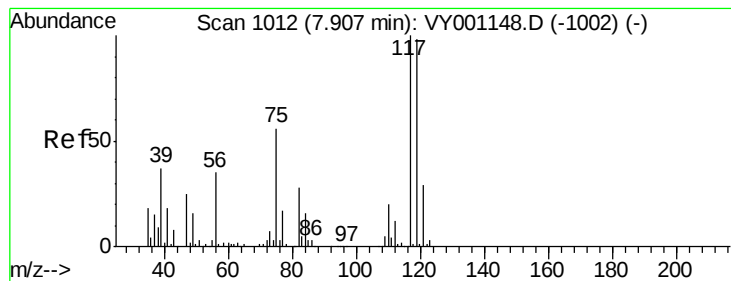
Tgt Ion: 75 Resp: 13153
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.3 54.8#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 4.677 ug/l
 RT: 7.00 min Scan# 864
 Delta R.T. -0.08 min
 Lab File: VY001245.D
 Acq: 16 Jan 2020 02:18

Tgt Ion: 43 Resp: 7636
 Ion Ratio Lower Upper
 43 100
 61 200.2 11.1 16.7#
 70 3.4 9.7 14.5#





#38

Carbon Tetrachloride

Concen: 6.214 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.10 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_FD_36-38

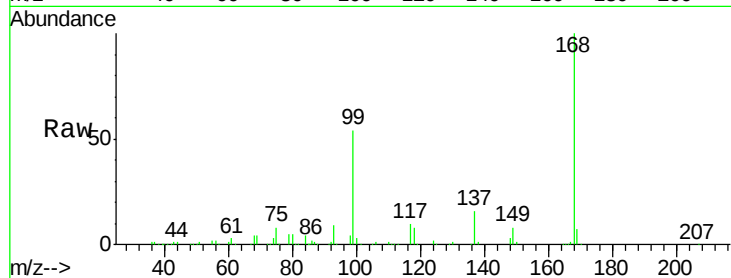
Tgt Ion:117 Resp: 15842

Ion Ratio Lower Upper

117 100

119 4.4 78.3 117.5#

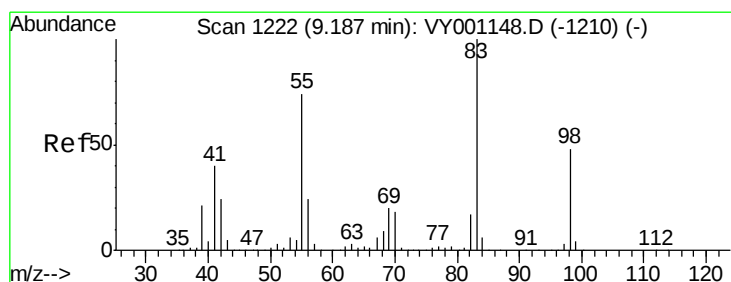
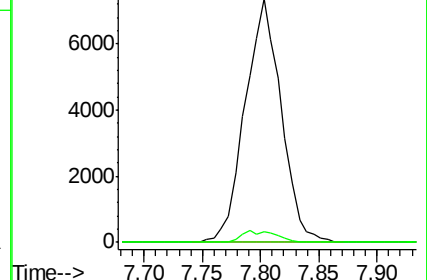
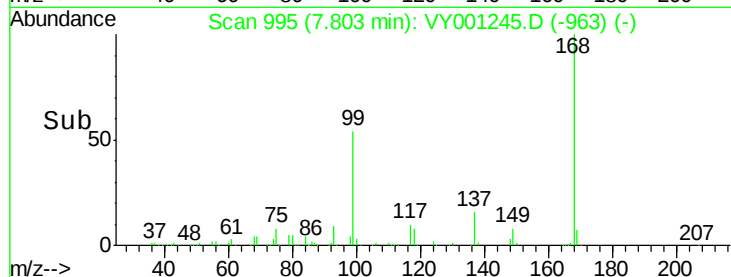
121 0.0 23.5 35.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.202 ug/l

RT: 9.19 min Scan# 1222

Delta R.T. -0.00 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

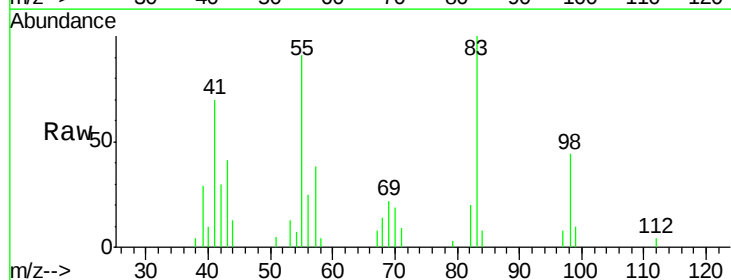
Tgt Ion: 83 Resp: 4533

Ion Ratio Lower Upper

83 100

55 87.1 58.9 88.3

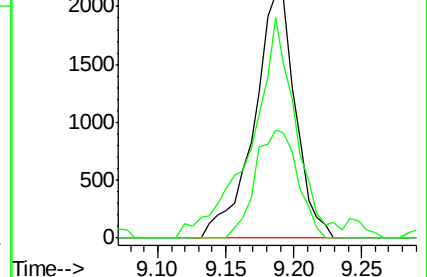
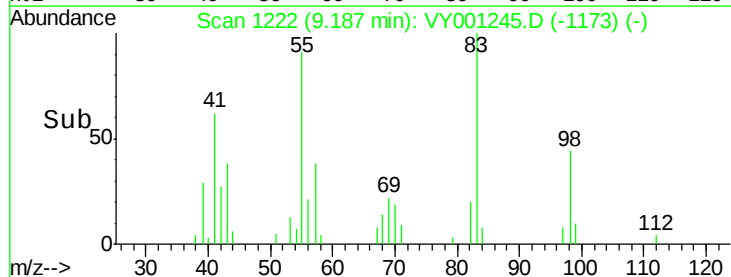
98 44.4 38.4 57.6

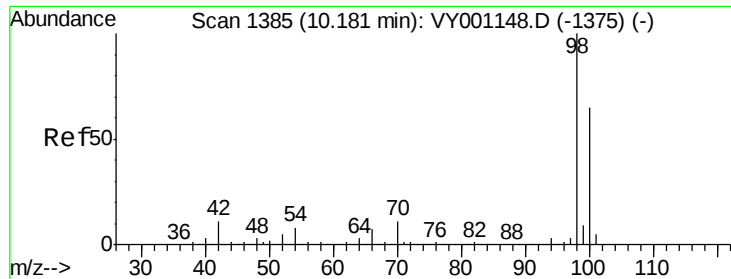


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#50

Toluene-d8

Concen: 51.071 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

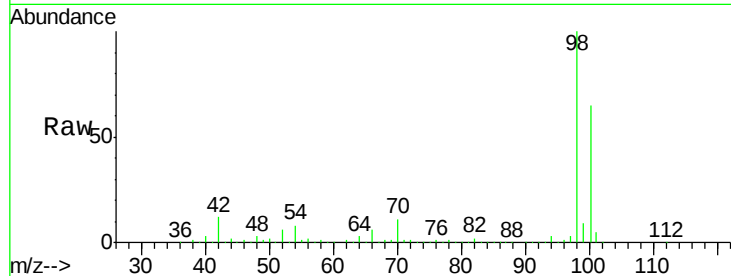
WP022SB457_200113_FD_36-38

Tgt Ion: 98 Resp: 351679

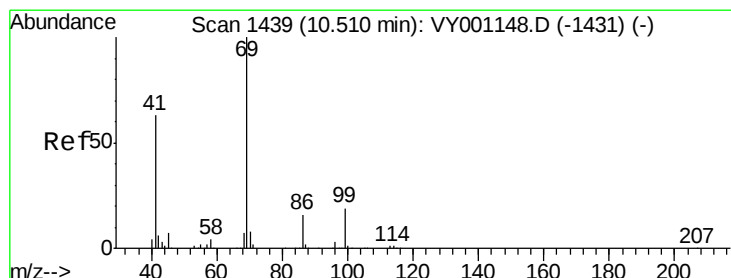
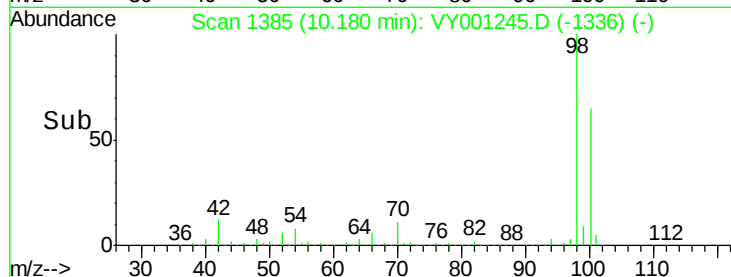
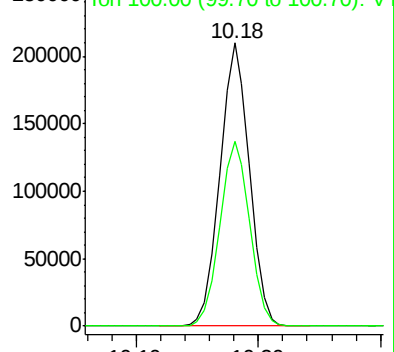
Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY001148.D (-1375) (-)



#56

Ethyl methacrylate

Concen: 1.194 ug/l

RT: 10.48 min Scan# 1434

Delta R.T. -0.03 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

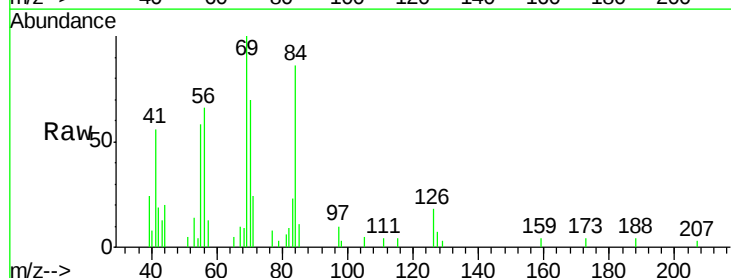
Tgt Ion: 69 Resp: 2965

Ion Ratio Lower Upper

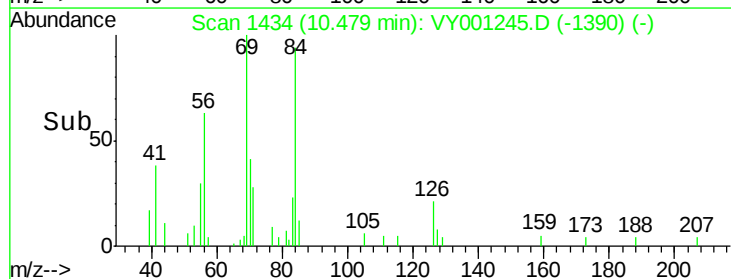
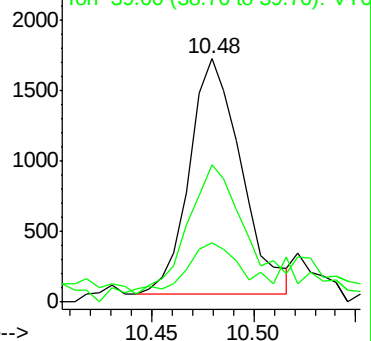
69 100

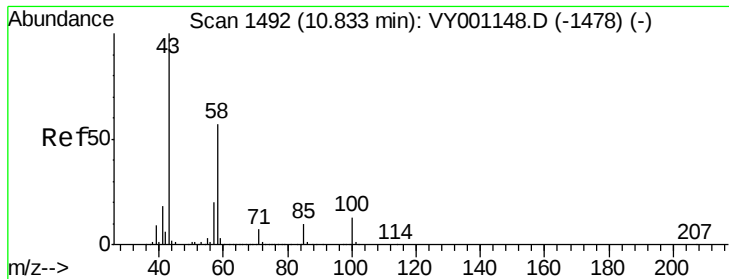
41 59.6 51.4 77.2

39 34.3 26.3 39.5



Abundance Ion 69.00 (68.70 to 69.70): VY001148.D (-1431) (-)

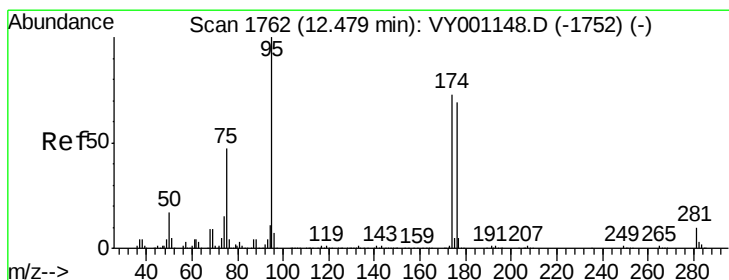
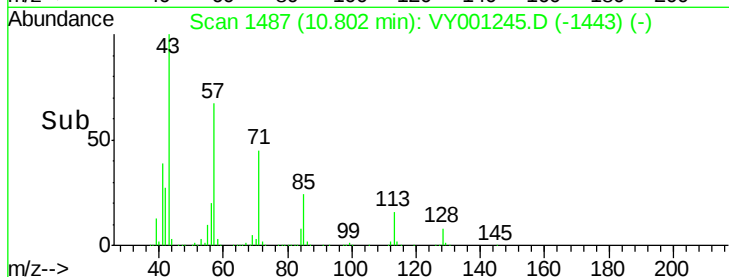
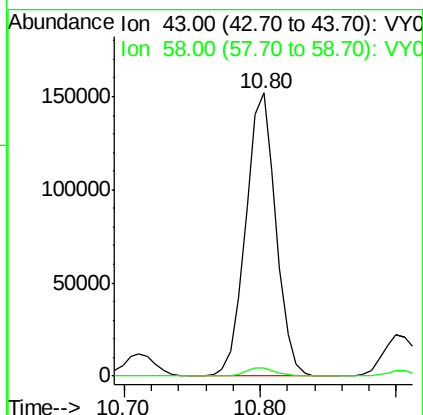
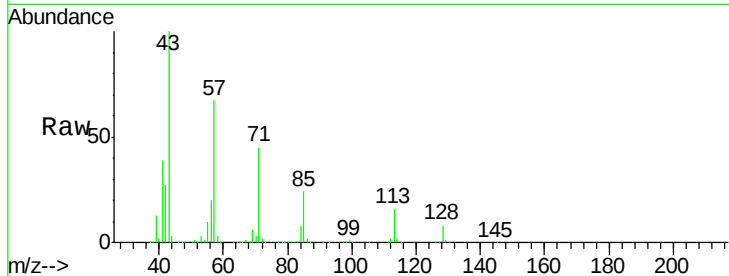




#59
2-Hexanone
Concen: 211.057 ug/l
RT: 10.80 min Scan# 1487
Delta R.T. -0.03 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

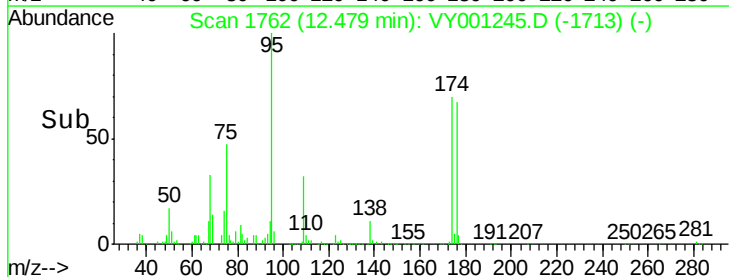
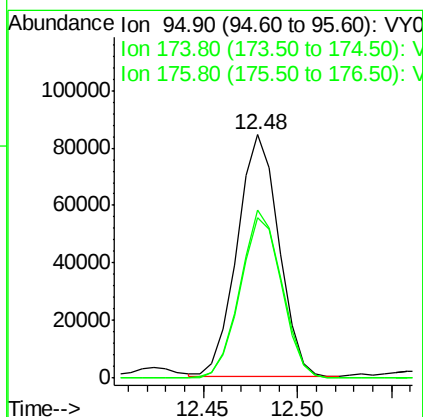
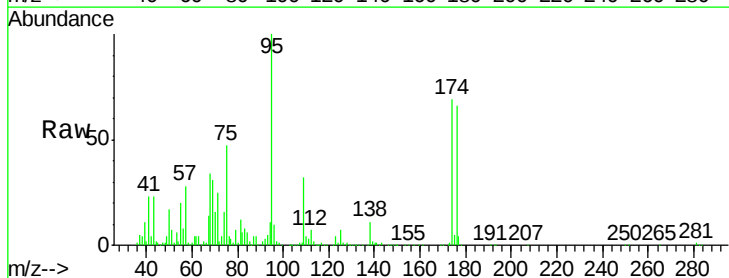
Instrument :
MSVOA_Y
ClientSampleId :
WP022SB457_200113_FD_36-38

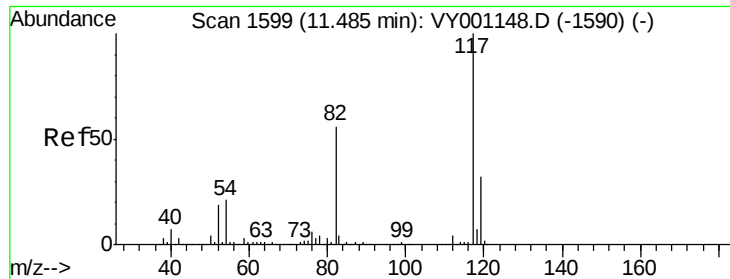
Tgt Ion: 43 Resp: 234319
Ion Ratio Lower Upper
43 100
58 3.1 28.4 85.2#



#62
4-Bromofluorobenzene
Concen: 45.567 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

Tgt Ion: 95 Resp: 128281
Ion Ratio Lower Upper
95 100
174 69.4 0.0 143.2
176 67.2 0.0 136.0

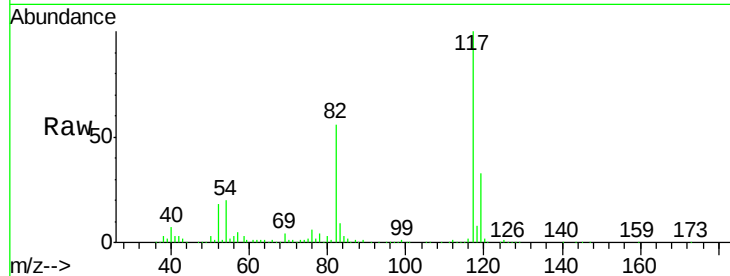




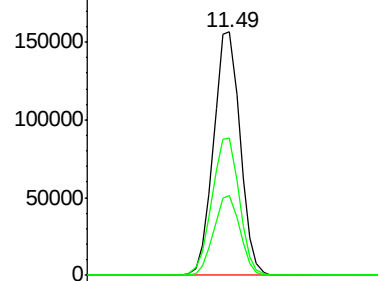
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

Instrument :
MSVOA_Y
ClientSampleId :
WP022SB457_200113_FD_36-38

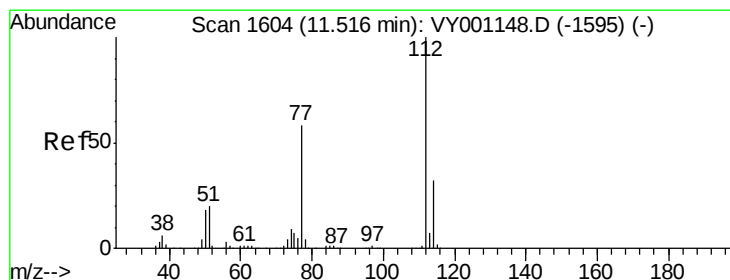
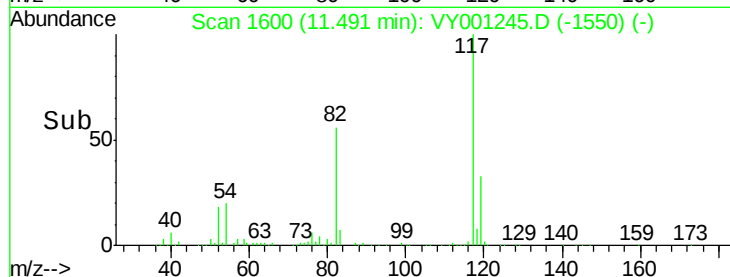
Tgt Ion:117 Resp: 259080
Ion Ratio Lower Upper
117 100
82 56.3 44.9 67.3
119 32.8 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

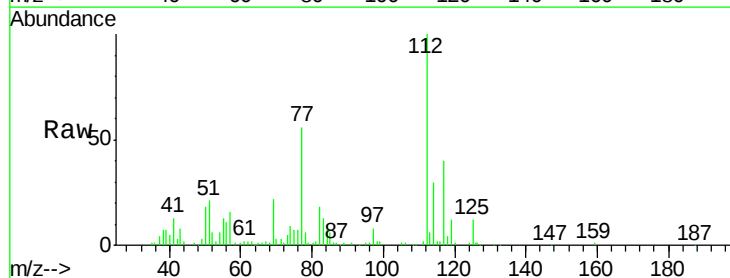


Time-->

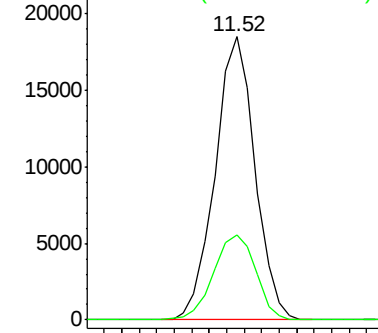


#65
Chlorobenzene
Concen: 5.632 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VY001245.D
Acq: 16 Jan 2020 02:18

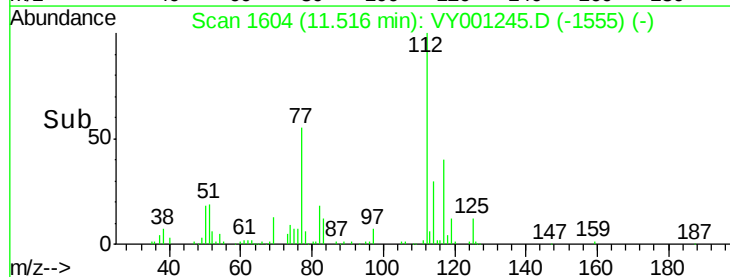
Tgt Ion:112 Resp: 29156
Ion Ratio Lower Upper
112 100
114 30.1 25.9 38.9

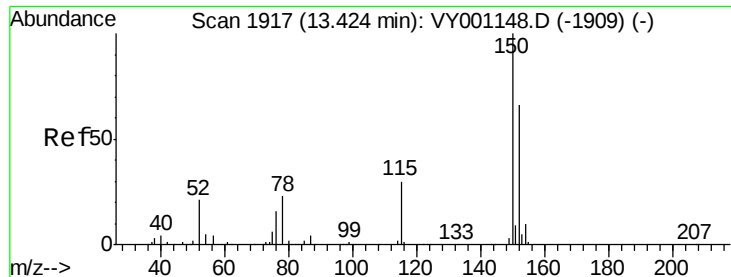


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V



Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_FD_36-38

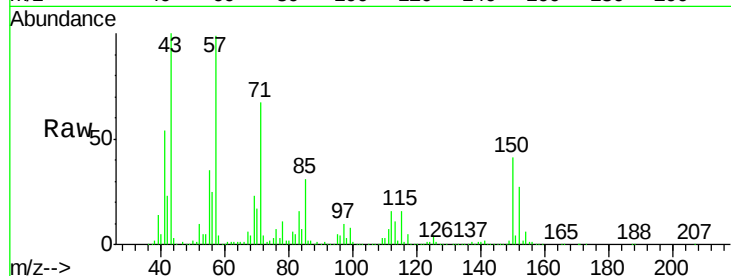
Tgt Ion:152 Resp: 125320

Ion Ratio Lower Upper

152 100

115 51.5 30.9 92.5

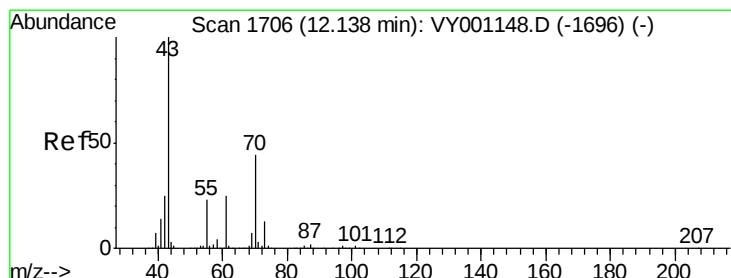
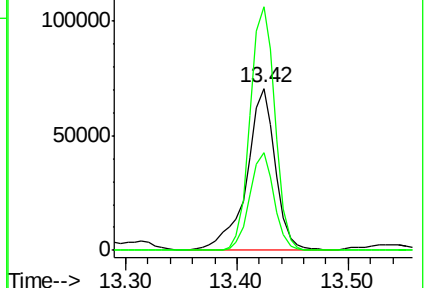
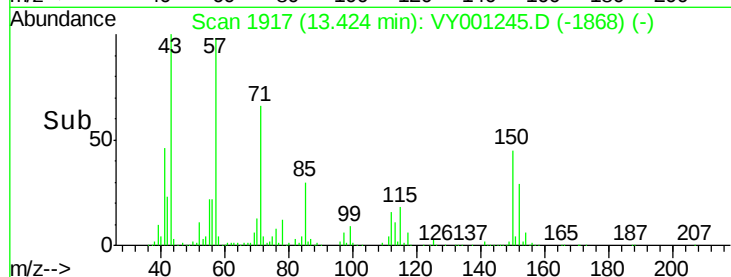
150 131.5 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 210.389 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.02 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Tgt Ion: 43 Resp: 618583

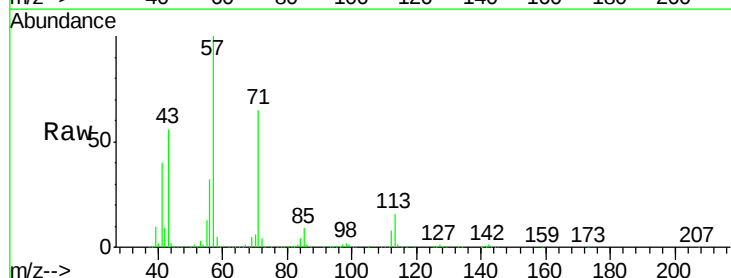
Ion Ratio Lower Upper

43 100

70 14.7 35.0 52.6#

55 26.6 18.4 27.6

61 0.0 20.1 30.1#

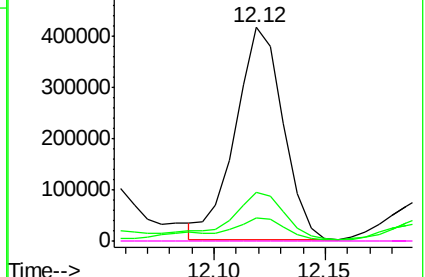
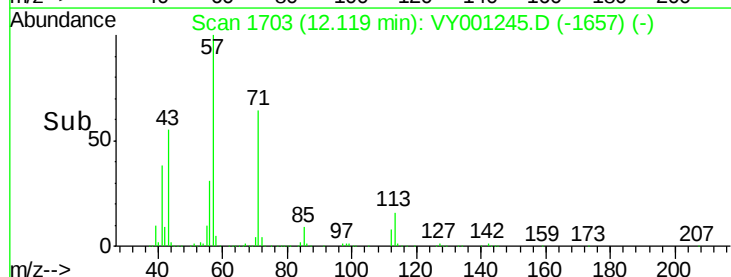


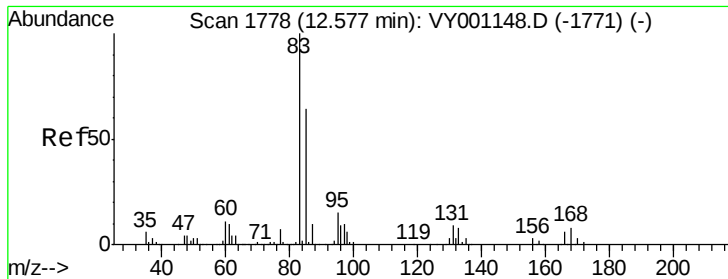
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 8.398 ug/l

RT: 12.64 min Scan# 1789

Delta R.T. 0.07 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_FD_36-38

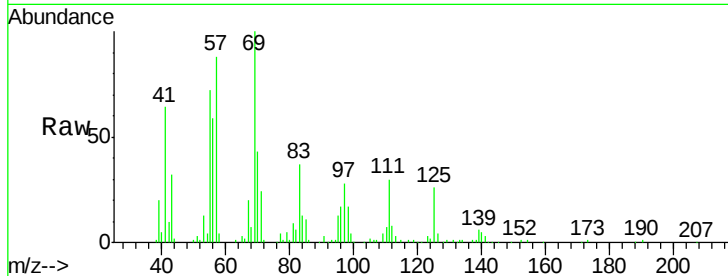
Tgt Ion: 83 Resp: 16647

Ion Ratio Lower Upper

83 100

131 2.6 5.1 15.3#

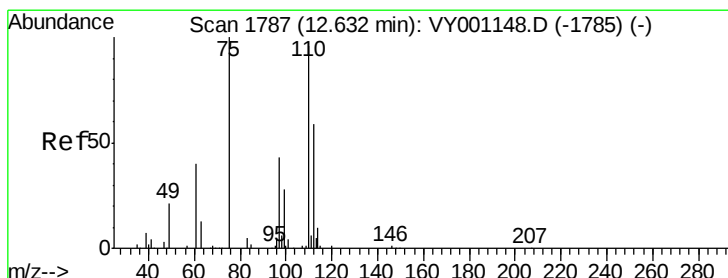
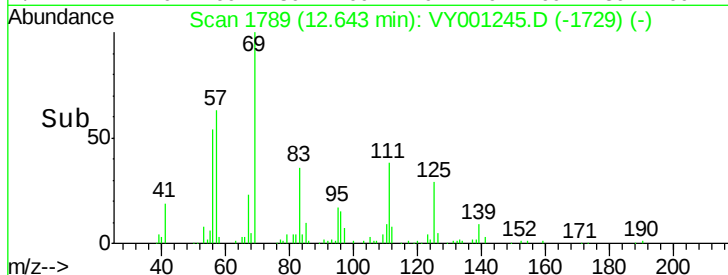
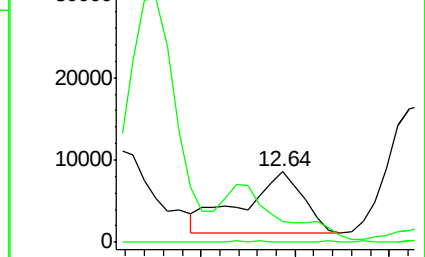
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): VY0

Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 44.581 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY001245.D

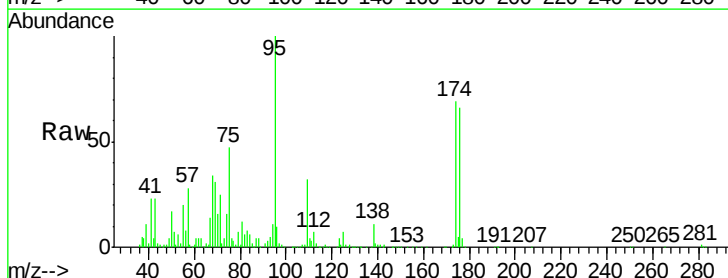
Acq: 16 Jan 2020 02:18

Tgt Ion: 75 Resp: 59808

Ion Ratio Lower Upper

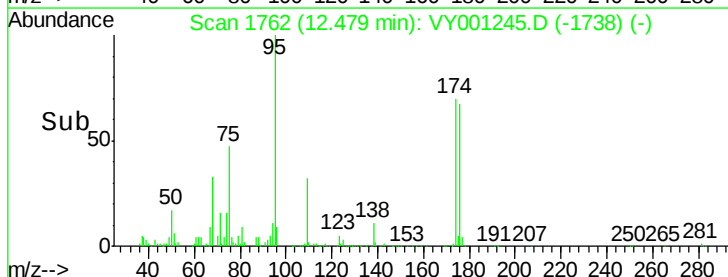
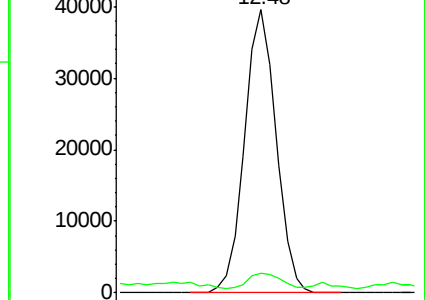
75 100

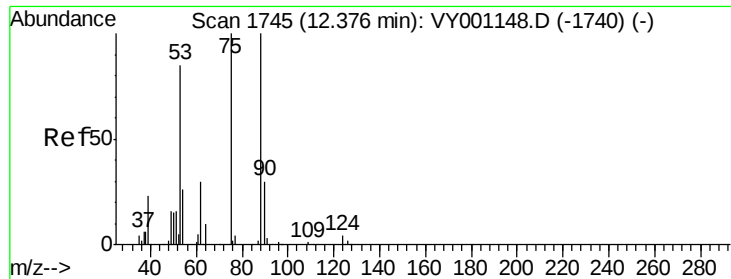
77 5.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 75.599 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_FD_36-38

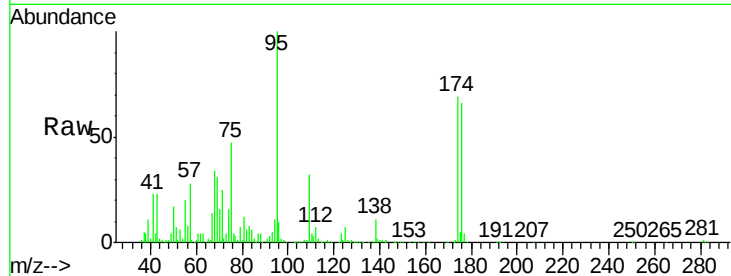
Tgt Ion: 75 Resp: 59808

Ion Ratio Lower Upper

75 100

53 8.7 69.4 104.2#

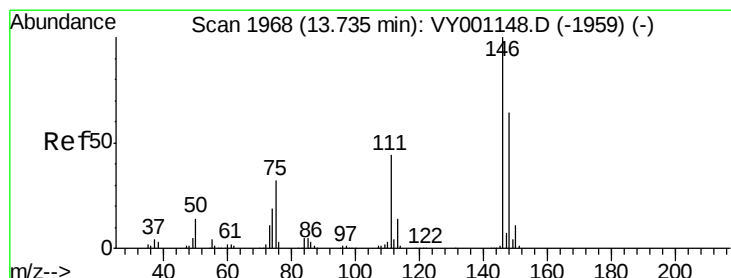
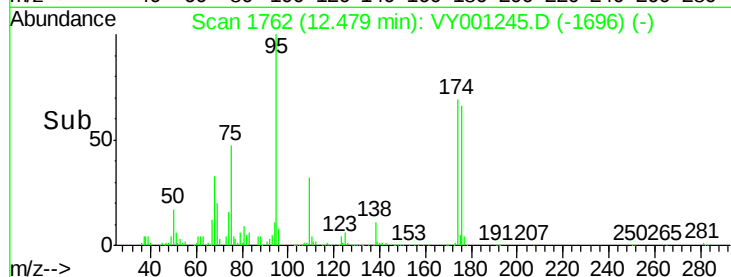
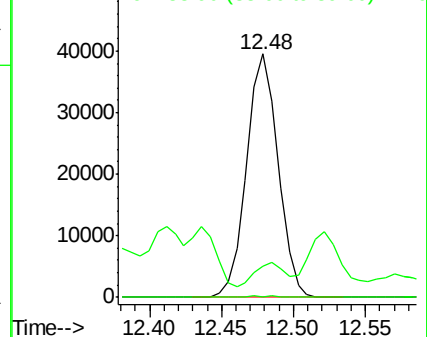
89 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#91

1,2-Dichlorobenzene

Concen: 1.019 ug/l

RT: 13.73 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VY001245.D

Acq: 16 Jan 2020 02:18

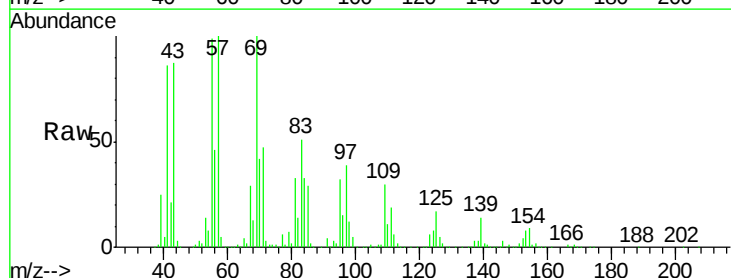
Tgt Ion: 146 Resp: 3730

Ion Ratio Lower Upper

146 100

111 0.0 22.0 66.0#

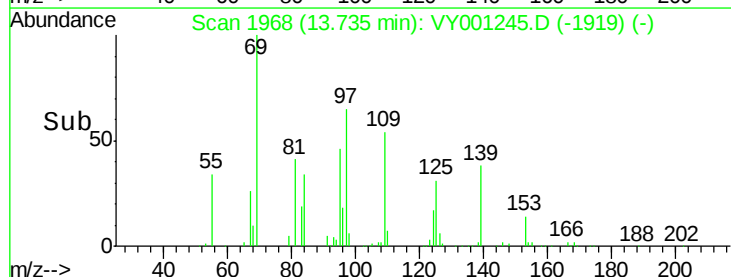
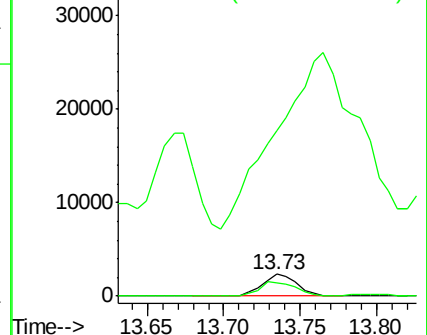
148 66.4 32.1 96.3

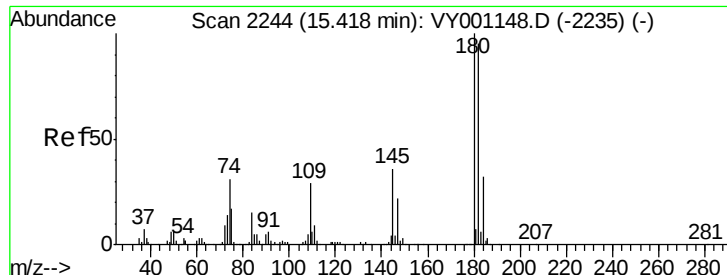


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

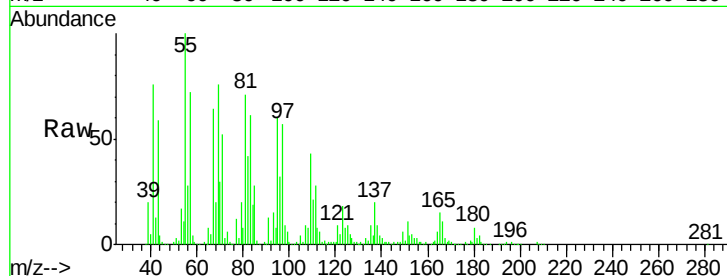




#96
 1,2,3-Trichlorobenzene
 Concen: 2.288 ug/l
 RT: 15.39 min Scan# 2239
 Delta R.T. -0.03 min
 Lab File: VY001245.D
 Acq: 16 Jan 2020 02:18

Instrument :
 MSVOA_Y
 ClientSampleId :
 WP022SB457_200113_FD_36-38

Tgt Ion:180 Resp: 4862
 Ion Ratio Lower Upper
 180 100
 182 37.8 47.5 142.5#
 145 13.3 17.1 51.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

