

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY021220\
 Data File : VY001612.D
 Acq On : 12 Feb 2020 14:47
 Operator : SY/MD
 Sample : L1509-02
 Misc : 6.69G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 13 07:45:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y020420S.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 04 15:10:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	166123	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	299011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	256222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	100697	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	93015	55.61	ug/l	0.00
Spiked Amount			Recovery	=	111.22%	
35) Dibromofluoromethane	7.74	113	85497	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	10.19	98	356181	54.60	ug/l	0.00
Spiked Amount			Recovery	=	109.20%	
62) 4-Bromofluorobenzene	12.49	95	112418	43.74	ug/l	0.00
Spiked Amount			Recovery	=	87.48%	

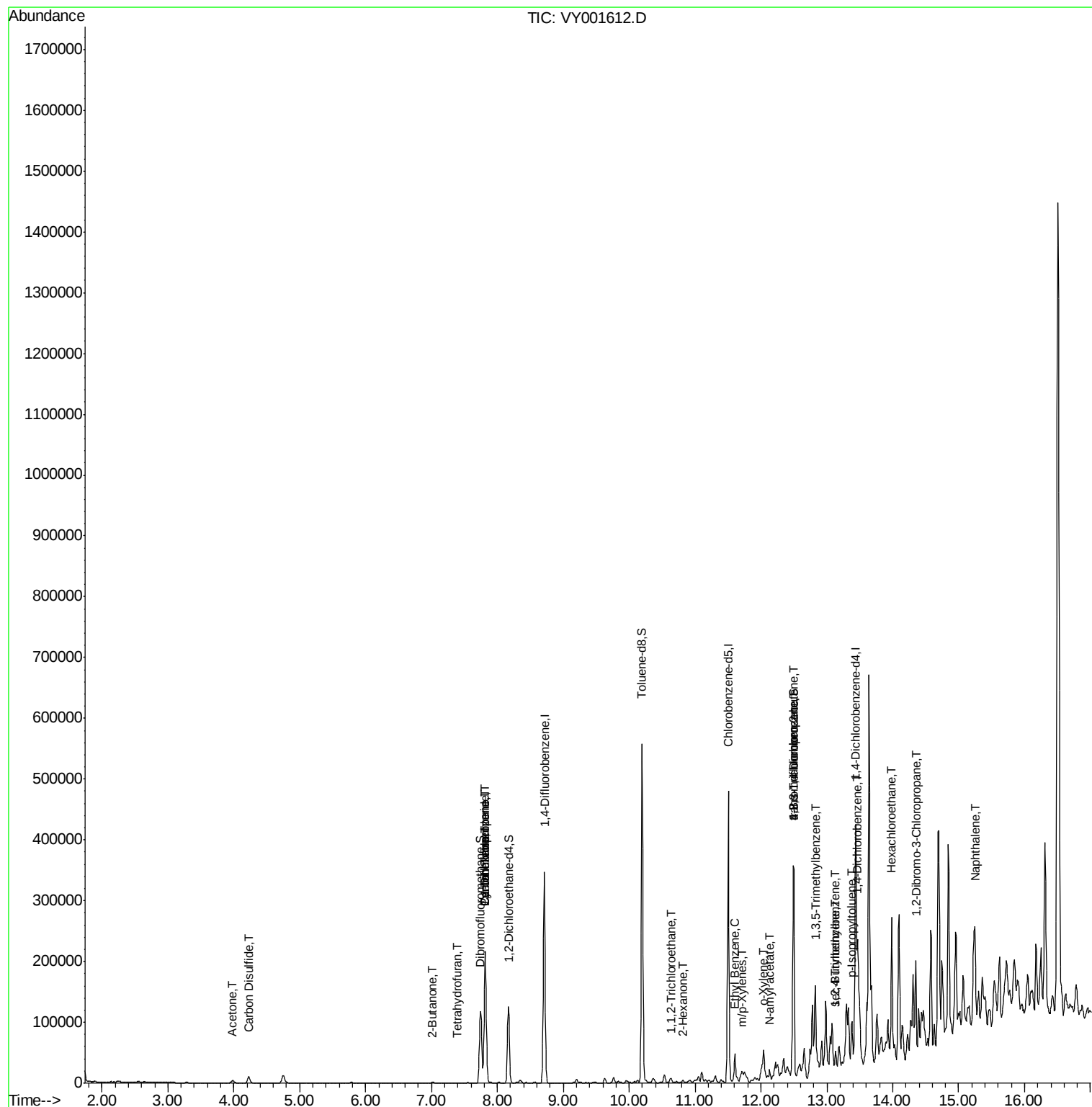
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	133	Below Cal	#	76
16) Acetone	3.98	43	7583	15.673	ug/l	92
17) Carbon Disulfide	4.22	76	20114	3.618	ug/l	97
25) 2-Butanone	7.02	43	1092	1.740	ug/l #	64
29) Tetrahydrofuran	7.39	42	480	1.276	ug/l #	59
31) Cyclohexane	7.82	56	4011	1.232	ug/l #	20
36) 1,1-Dichloropropene	7.82	75	13266	4.850	ug/l #	48
38) Carbon Tetrachloride	7.82	117	16390	6.193	ug/l #	16
55) 1,1,2-Trichloroethane	10.63	97	2838	1.870	ug/l #	19
59) 2-Hexanone	10.82	43	2350	2.503	ug/l #	26
67) Ethyl Benzene	11.61	91	31037	3.337	ug/l	100
68) m/p-Xylenes	11.72	106	4373	1.252	ug/l	95
69) o-Xylene	12.04	106	11780	3.578	ug/l	99
74) N-amyl acetate	12.13	43	3689	1.848	ug/l #	40
76) 1,2,3-Trichloropropane	12.49	75	57048	52.681	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.82	105	52525	8.121	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.49	75	57048	101.935	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.13	105	15771	2.464	ug/l	99
85) sec-Butylbenzene	13.13	105	15771	2.052	ug/l #	57
86) p-Isopropyltoluene	13.38	119	31804	4.695	ug/l	97
88) 1,4-Dichlorobenzene	13.46	146	7159	2.243	ug/l #	74
90) Hexachloroethane	13.98	117	10167	7.820	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.34	75	754	2.799	ug/l #	3
95) Naphthalene	15.25	128	110938	24.267	ug/l	97

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

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QLast Update : Tue Feb 04 15:10:08 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

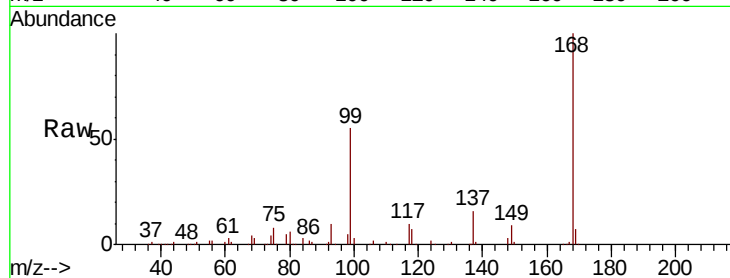
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 166123

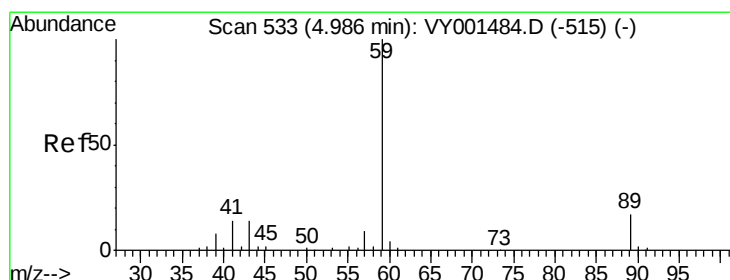
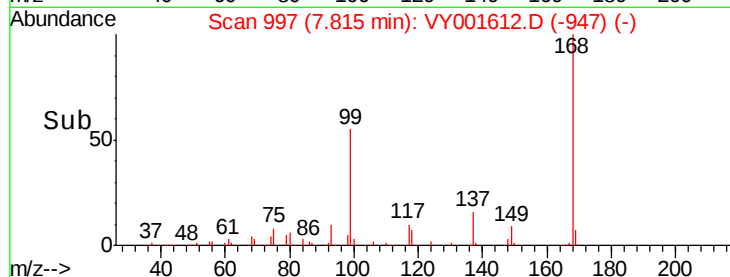
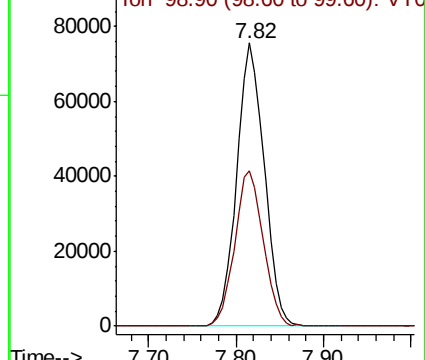
Ion Ratio Lower Upper

168 100

99 54.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VY001612.D (-947) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. 0.01 min

Lab File: VY001612.D

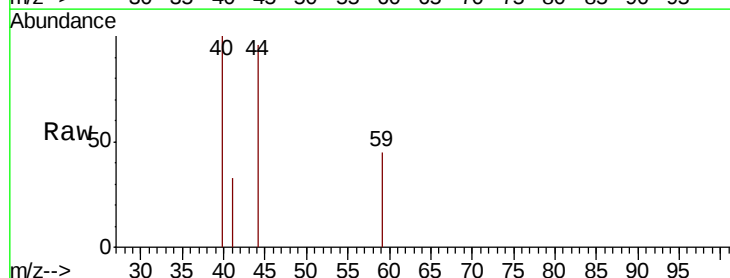
Acq: 12 Feb 2020 14:47

Tgt Ion: 59 Resp: 133

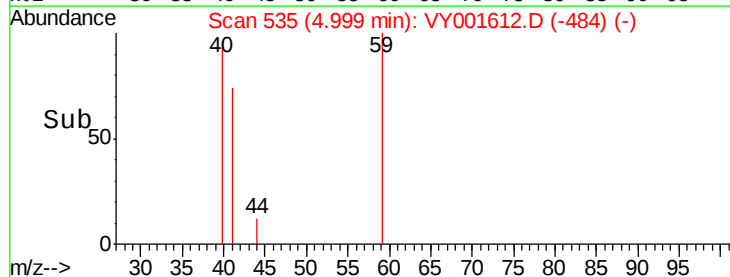
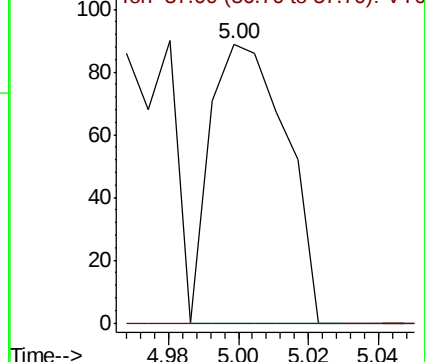
Ion Ratio Lower Upper

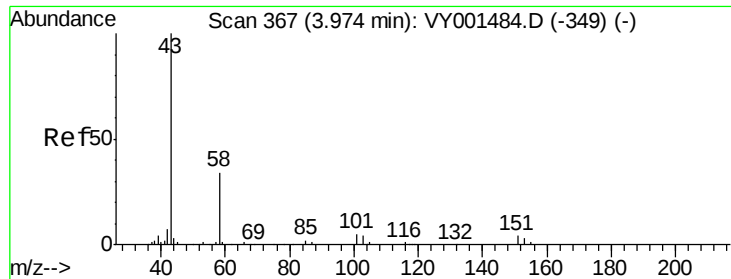
59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001612.D (-484) (-)





#16

Acetone

Concen: 15.673 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Instrument :

MSVOA_Y

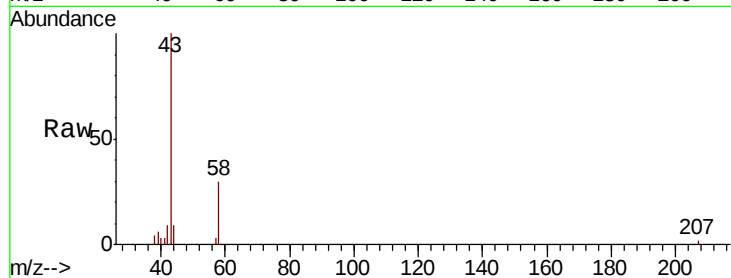
ClientSampleId :

Tot Ion: 43 Resp: 7583

Ion Ratio Lower Upper

43 100

58 29.6 27.5 41.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3000

2500

2000

1500

1000

500

0

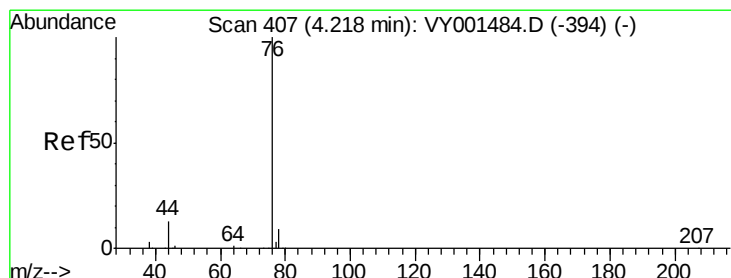
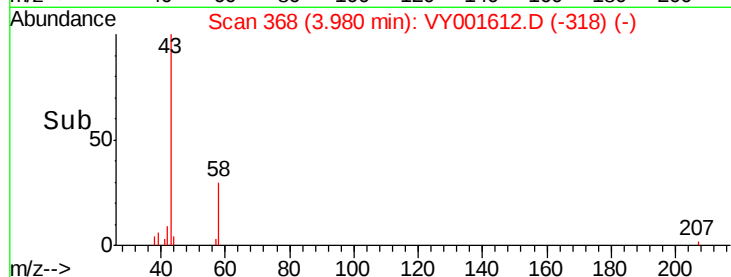
3.90

3.98

4.00

4.10

Time-->



#17

Carbon Disulfide

Concen: 3.618 ug/l

RT: 4.22 min Scan# 408

Delta R.T. 0.01 min

Lab File: VY001612.D

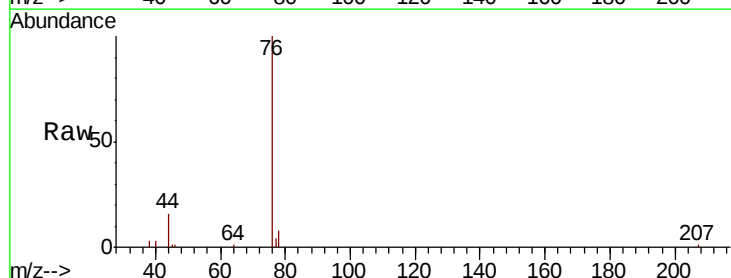
Acq: 12 Feb 2020 14:47

Tgt Ion: 76 Resp: 20114

Ion Ratio Lower Upper

76 100

78 7.6 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

8000

6000

4000

2000

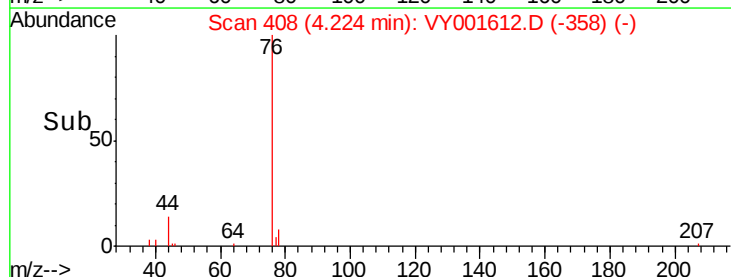
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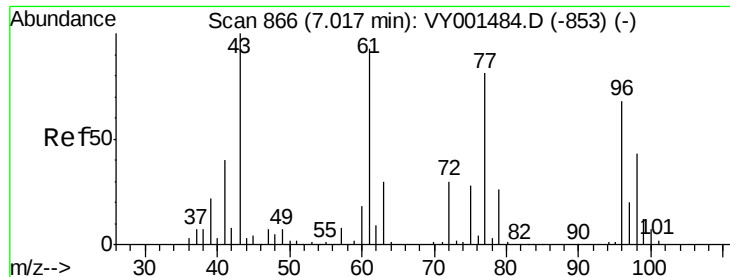
4.10

4.22

4.30

Time-->

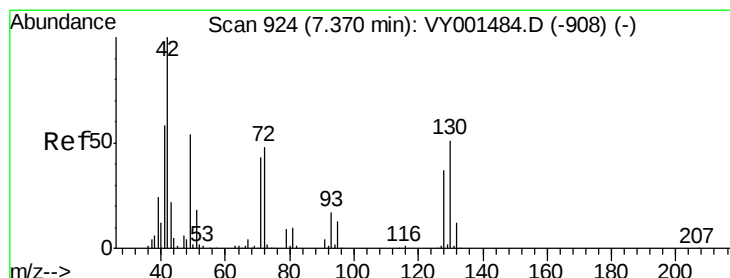
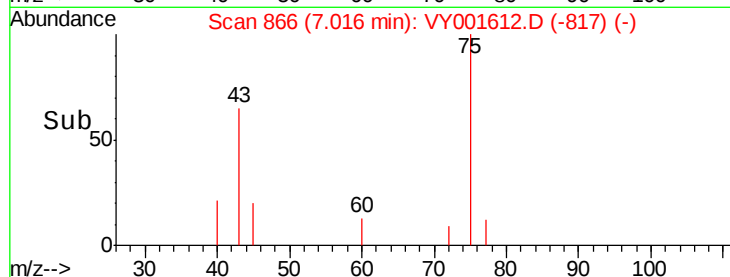
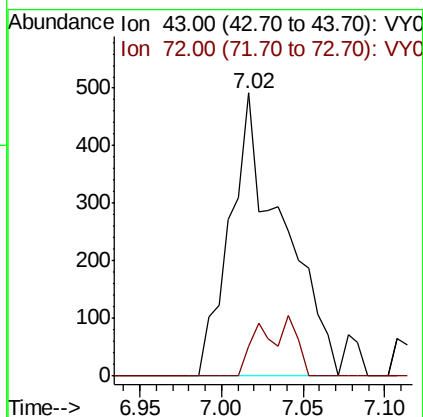
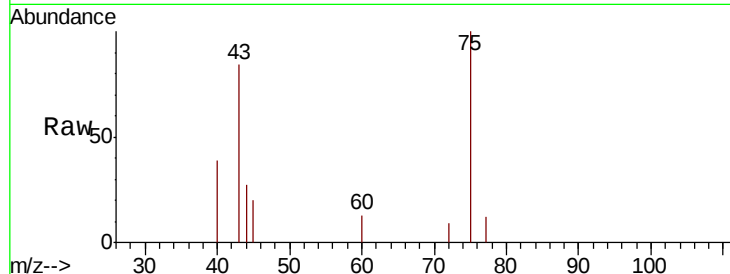




#25
 2-Butanone
 Concen: 1.740 ug/l
 RT: 7.02 min Scan# 866
 Delta R.T. -0.00 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

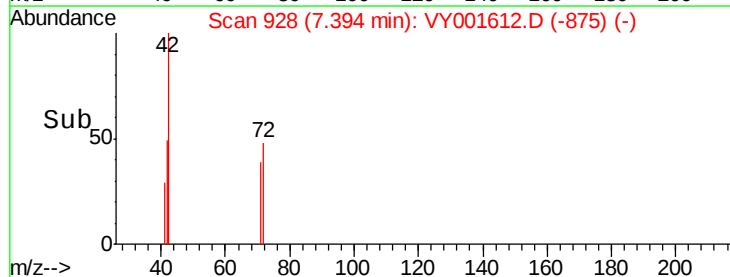
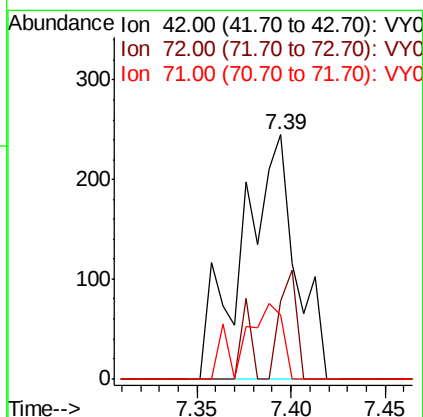
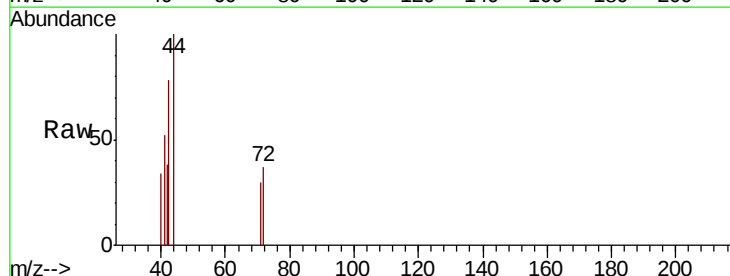
Instrument :
 MSVOA_Y
 ClientSampled :

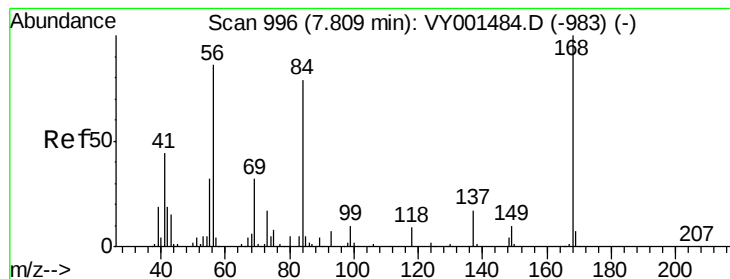
Tot Ion: 43 Resp: 1092
 Ion Ratio Lower Upper
 43 100
 72 10.4 23.8 35.8#



#29
 Tetrahydrofuran
 Concen: 1.276 ug/l
 RT: 7.39 min Scan# 928
 Delta R.T. 0.02 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Tgt Ion: 42 Resp: 480
 Ion Ratio Lower Upper
 42 100
 72 14.2 37.8 56.6#
 71 22.7 34.8 52.2#





#31

Cyclohexane

Concen: 1.232 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Instrument :

MSVOA_Y

ClientSampleId :

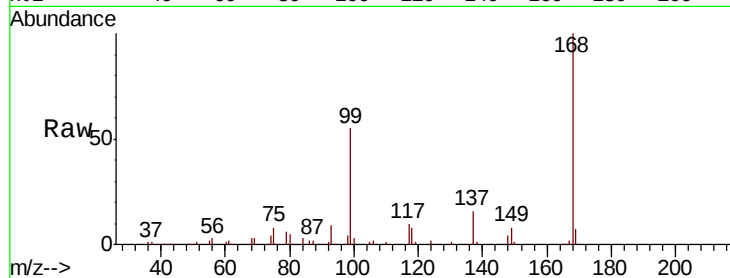
Tot Ion: 56 Resp: 4011

Ion Ratio Lower Upper

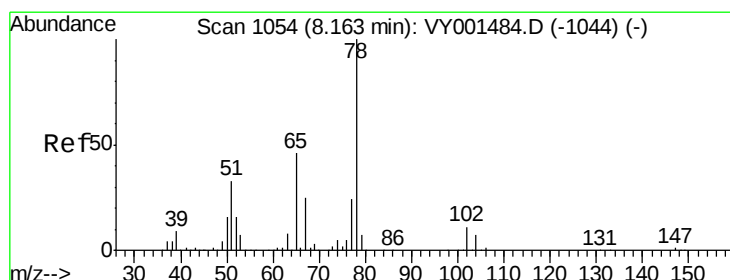
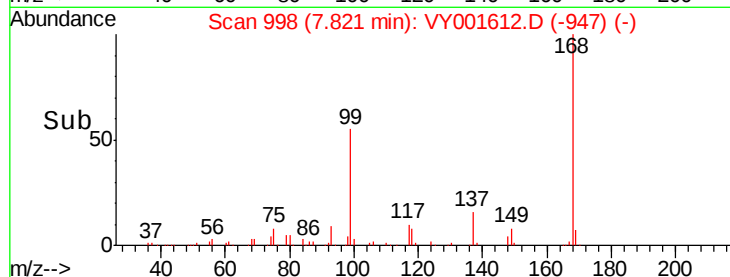
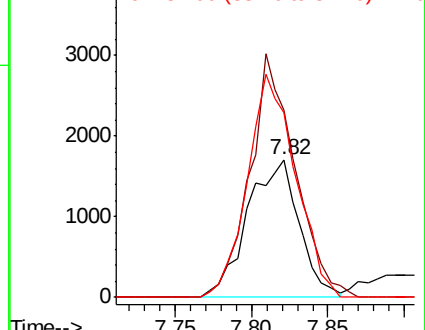
56 100

69 136.4 29.6 44.4#

84 134.5 73.6 110.4#



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: 55.610 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY001612.D

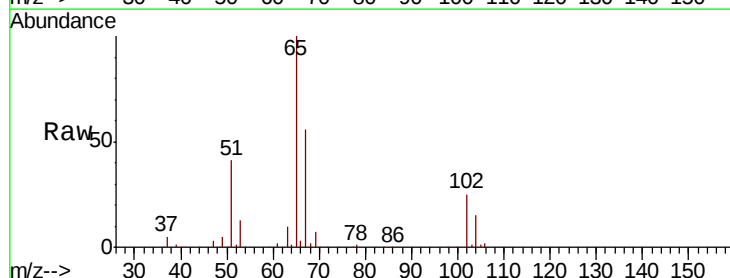
Acq: 12 Feb 2020 14:47

Tgt Ion: 65 Resp: 93015

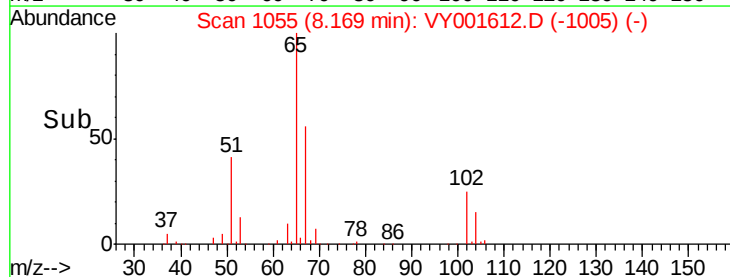
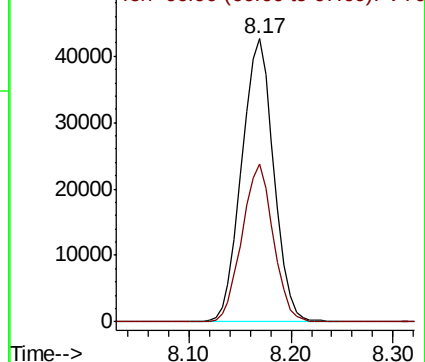
Ion Ratio Lower Upper

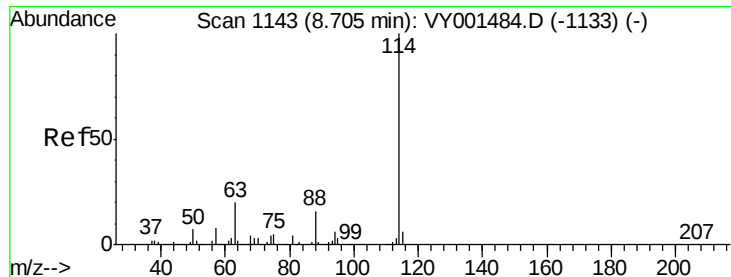
65 100

67 54.6 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

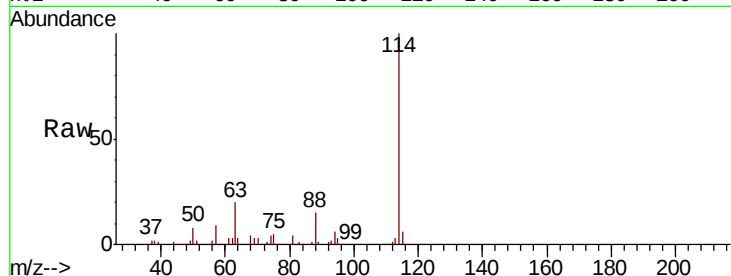




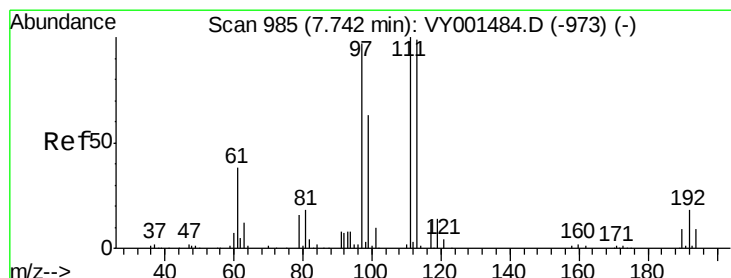
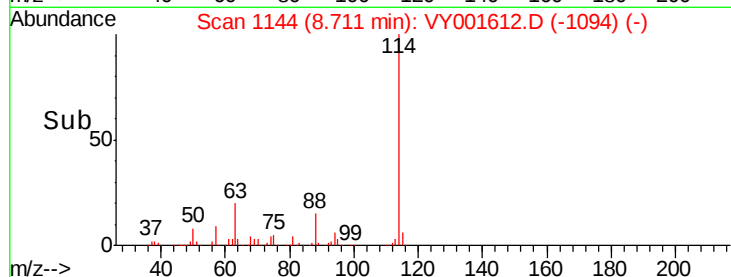
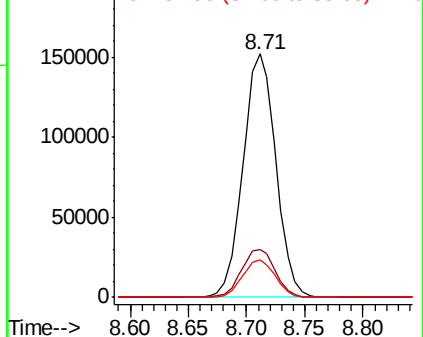
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.01 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.8
88	15.3	0.0	32.6

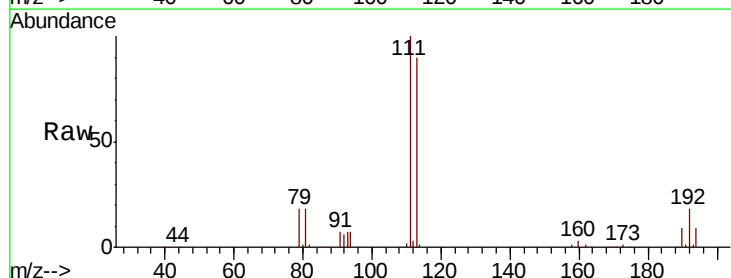


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

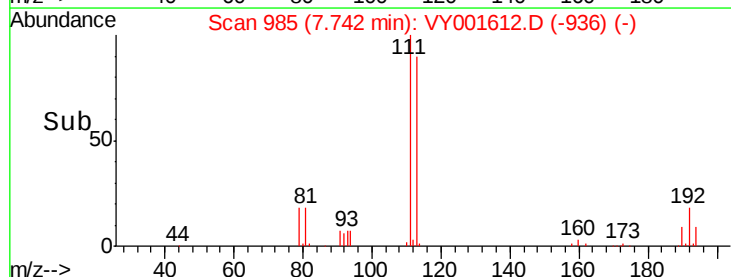
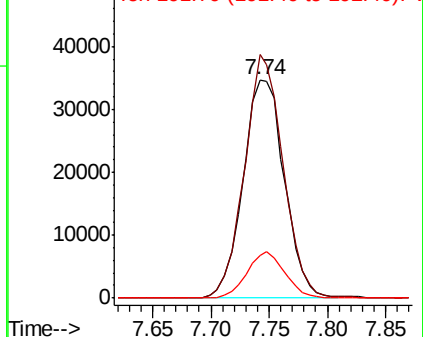


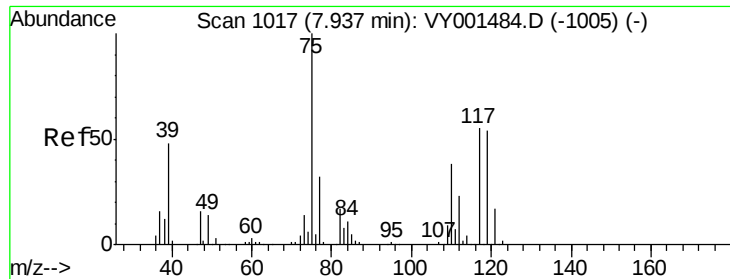
#35
 Dibromofluoromethane
 Concen: 49.585 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. -0.00 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.9	124.3
192	19.5	14.6	22.0



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

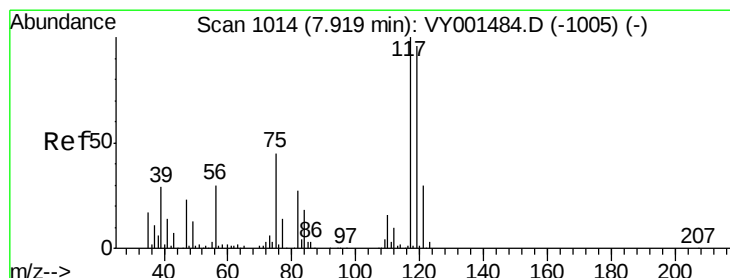
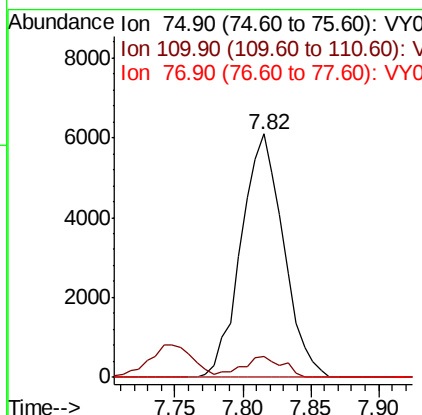
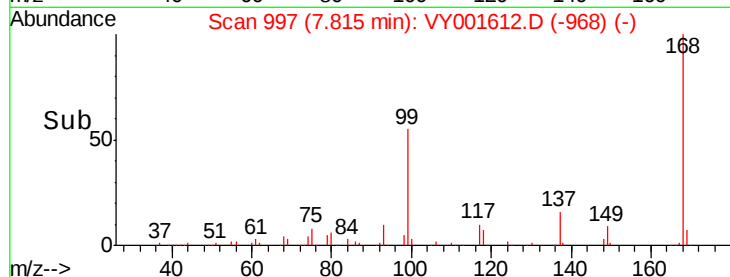
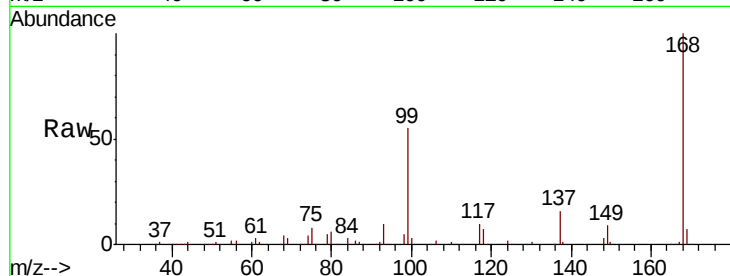




#36
 1,1-Dichloropropene
 Concen: 4.850 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.12 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

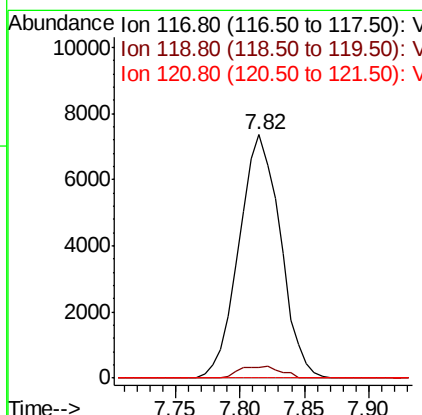
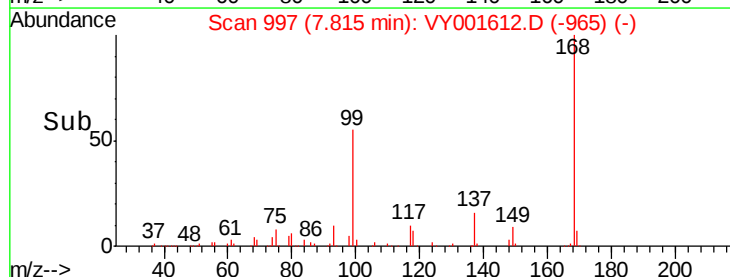
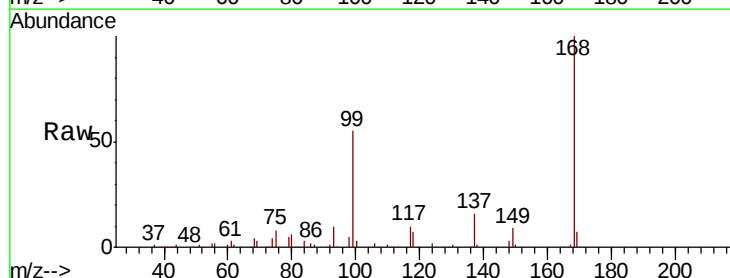
Instrument :
 MSVOA_Y
 ClientSampleId :

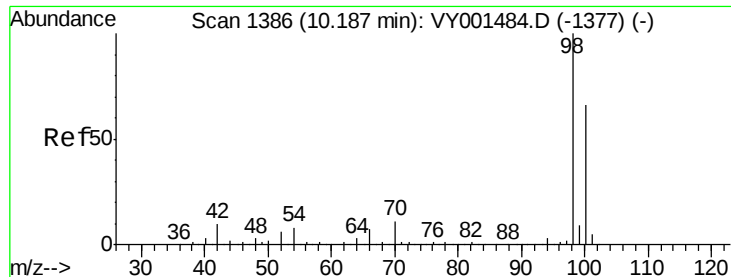
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.2	54.6#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.193 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.10 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.4	114.6#
121	0.0	24.2	36.4#





#50

Toluene-d8

Concen: 54.599 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Instrument :

MSVOA_Y

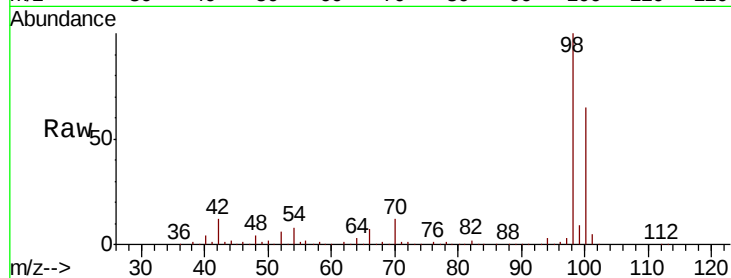
ClientSampleId :

Tot Ion: 98 Resp: 356181

Ion Ratio Lower Upper

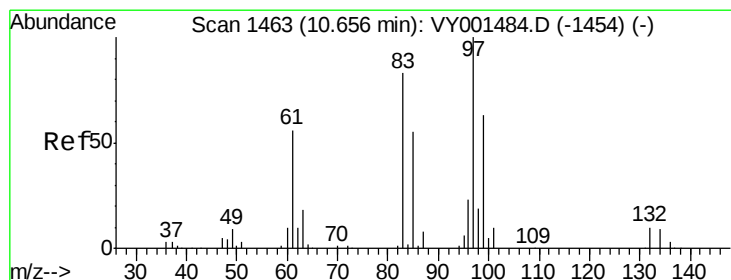
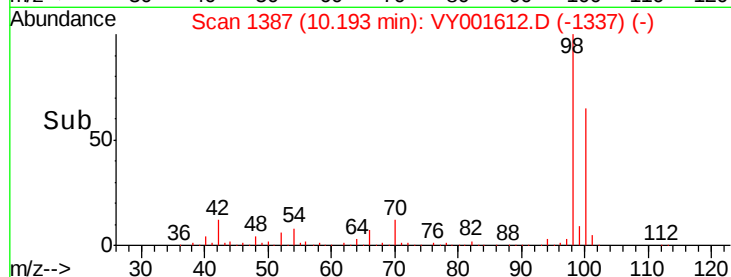
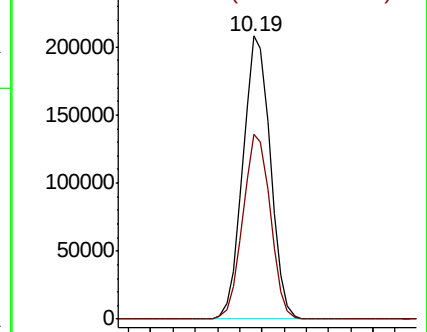
98 100

100 65.4 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#55

1,1,2-Trichloroethane

Concen: 1.870 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.03 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Tgt Ion: 97 Resp: 2838

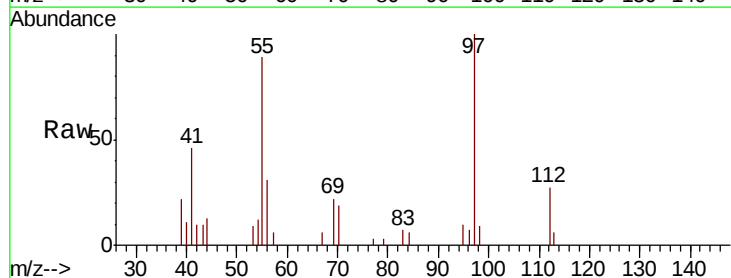
Ion Ratio Lower Upper

97 100

83 6.5 66.2 99.2#

85 0.0 43.8 65.6#

99 0.0 50.1 75.1#

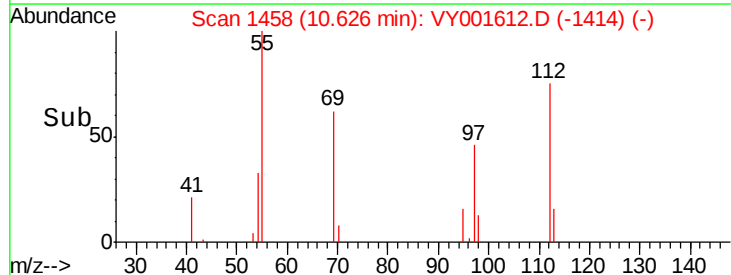
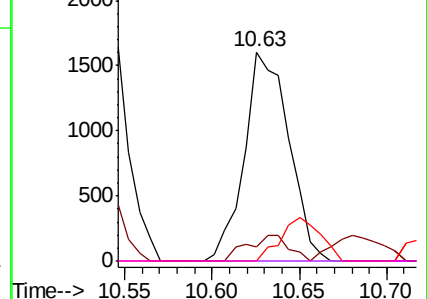


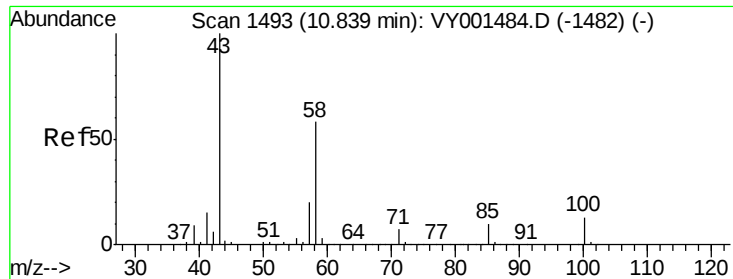
Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

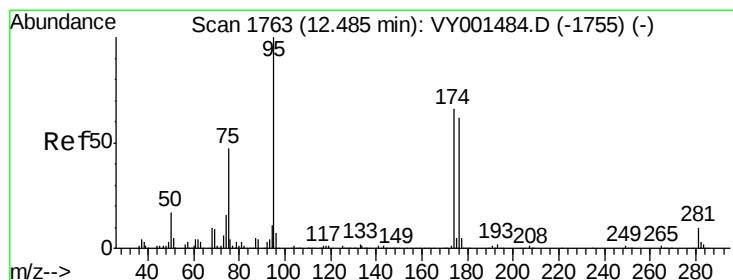
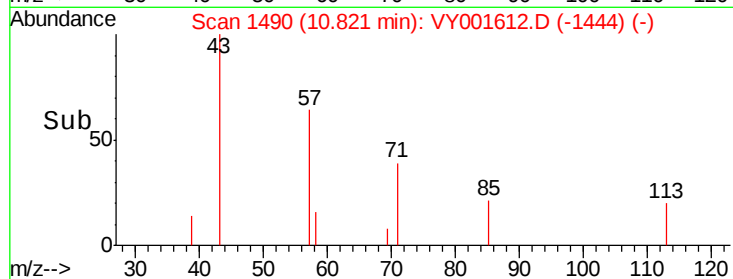
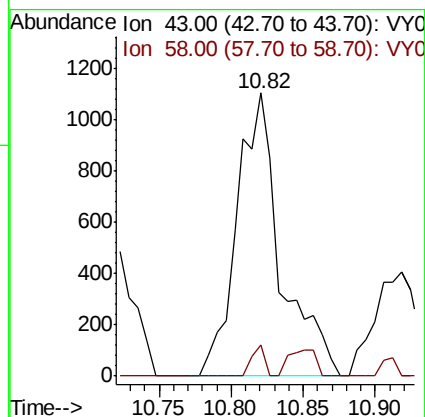
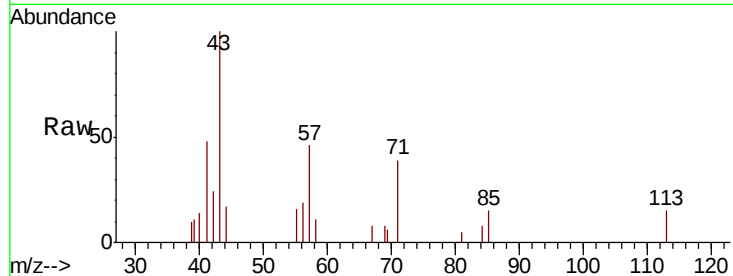




#59
2-Hexanone
Concen: 2.503 ug/l
RT: 10.82 min Scan# 1490
Delta R.T. -0.02 min
Lab File: VY001612.D
Acq: 12 Feb 2020 14:47

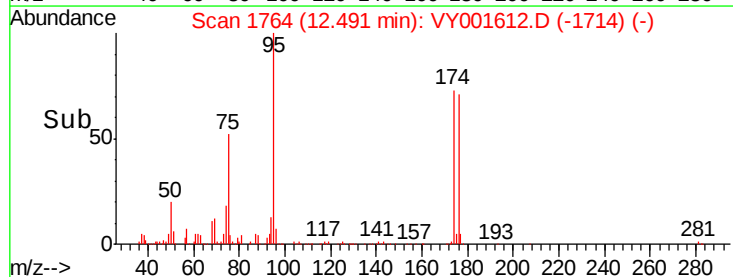
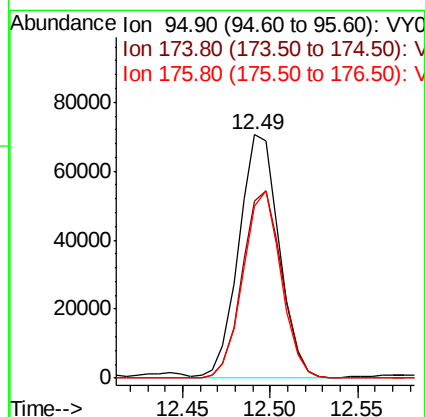
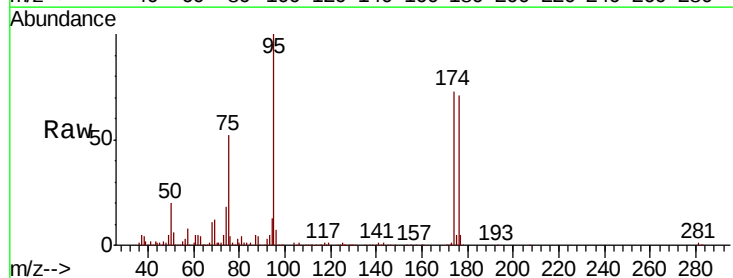
Instrument :
MSVOA_Y
ClientSampleId :

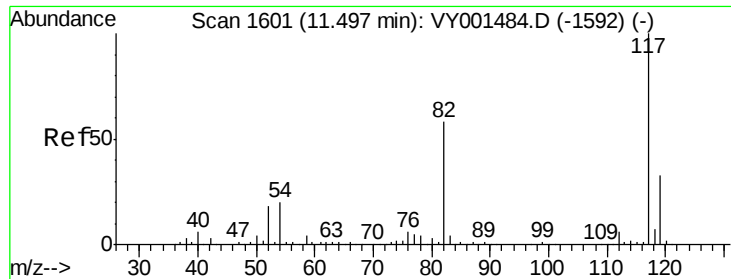
Tot Ion: 43 Resp: 2350
Ion Ratio Lower Upper
43 100
58 3.1 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 43.744 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.01 min
Lab File: VY001612.D
Acq: 12 Feb 2020 14:47

Tgt Ion: 95 Resp: 112418
Ion Ratio Lower Upper
95 100
174 75.9 0.0 141.4
176 73.0 0.0 135.4

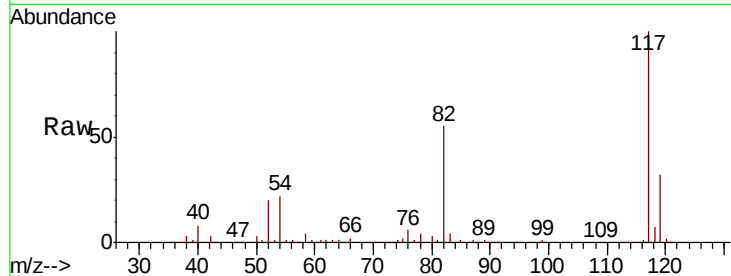




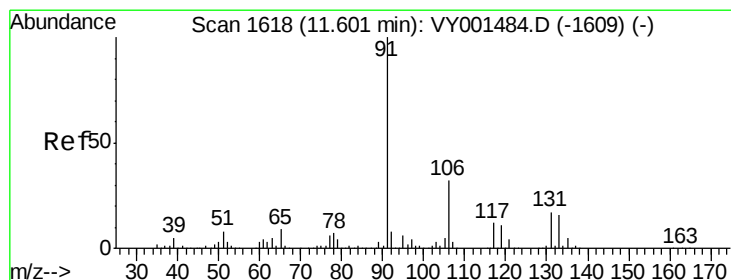
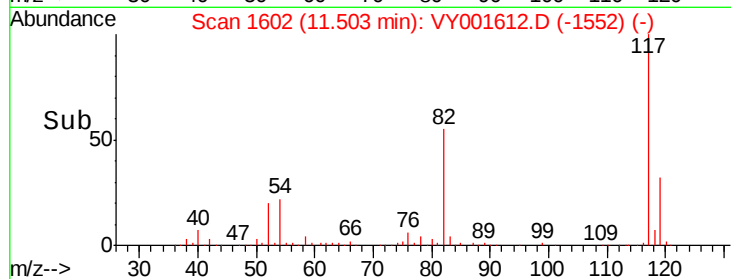
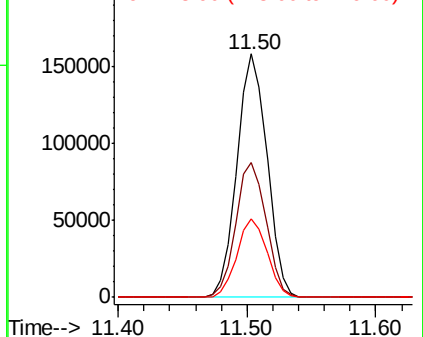
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.01 min
Lab File: VY001612.D
Acq: 12 Feb 2020 14:47

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 256222
Ion Ratio Lower Upper
117 100
82 55.4 46.1 69.1
119 32.4 26.1 39.1

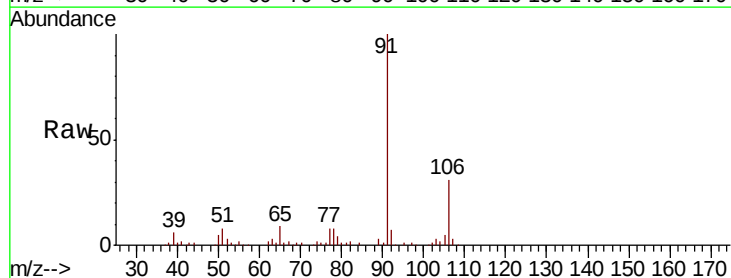


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

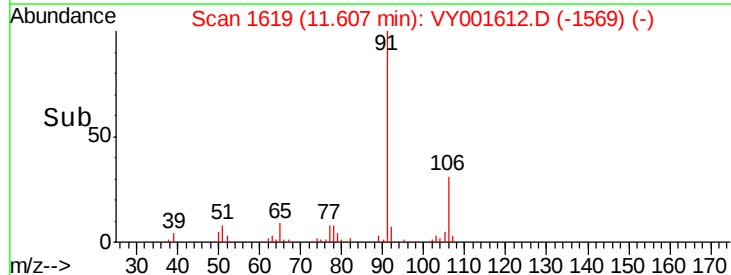
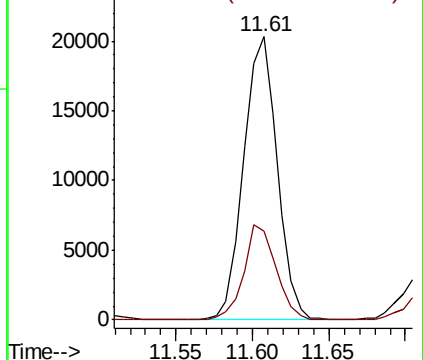


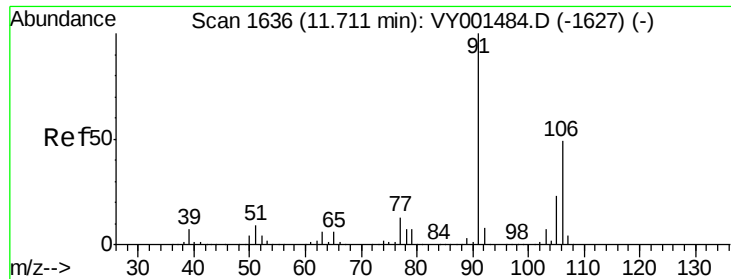
#67
Ethyl Benzene
Concen: 3.337 ug/l
RT: 11.61 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VY001612.D
Acq: 12 Feb 2020 14:47

Tgt Ion: 91 Resp: 31037
Ion Ratio Lower Upper
91 100
106 31.4 25.3 37.9



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 106.00 (105.70 to 106.70): V

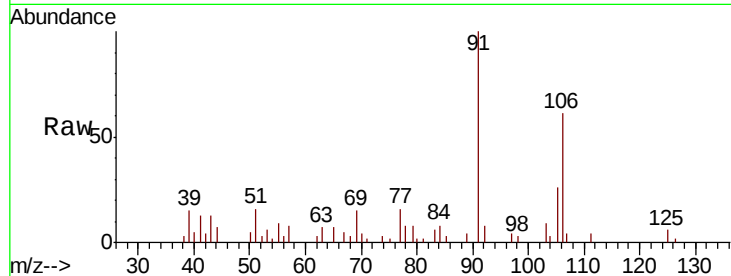




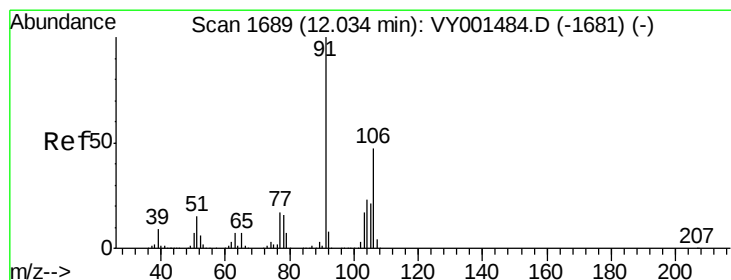
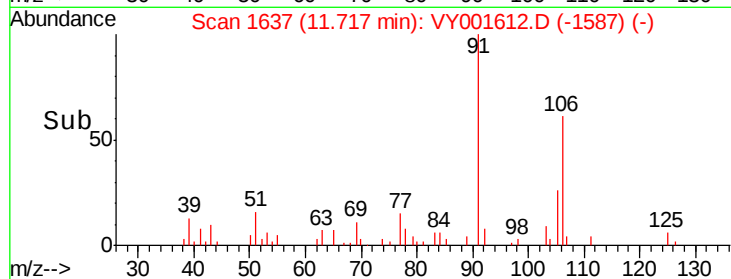
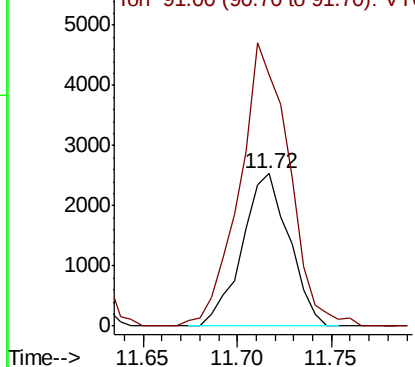
#68
m/p-Xylenes
Concen: 1.252 ug/l
RT: 11.72 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VY001612.D
Acq: 12 Feb 2020 14:47

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:106 Resp: 4373
Ion Ratio Lower Upper
106 100
91 196.3 163.6 245.4

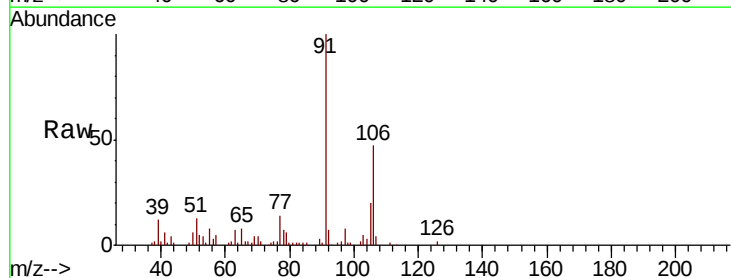


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

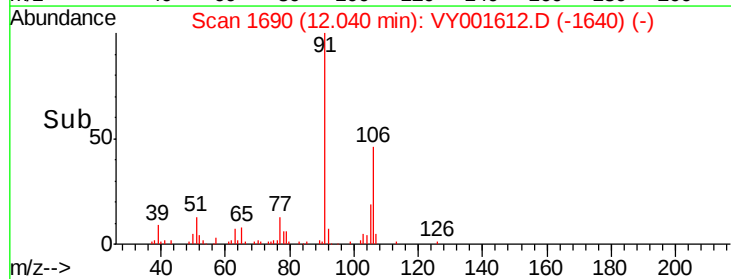
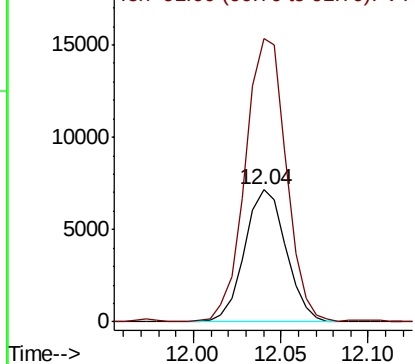


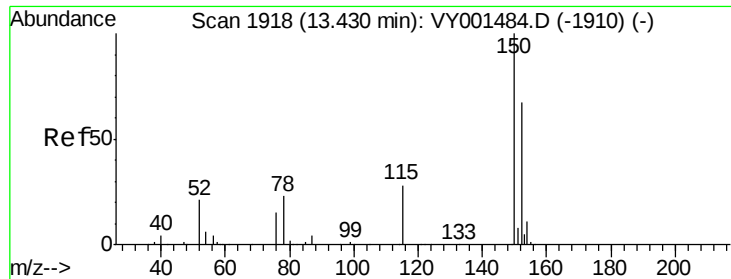
#69
o-Xylene
Concen: 3.578 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VY001612.D
Acq: 12 Feb 2020 14:47

Tgt Ion:106 Resp: 11780
Ion Ratio Lower Upper
106 100
91 212.9 106.0 318.0



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Instrument :

MSVOA_Y

ClientSampleId :

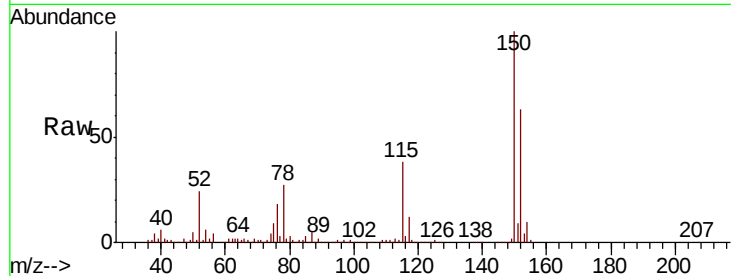
Tot Ion:152 Resp: 100697

Ion Ratio Lower Upper

152 100

115 62.9 31.4 94.3

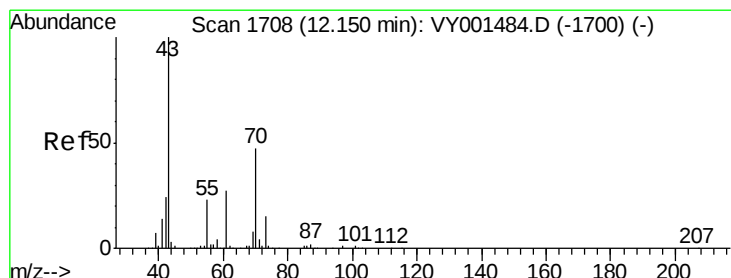
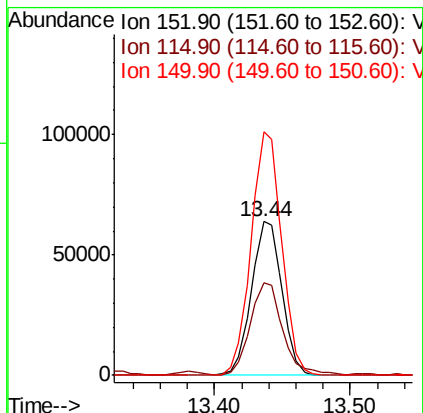
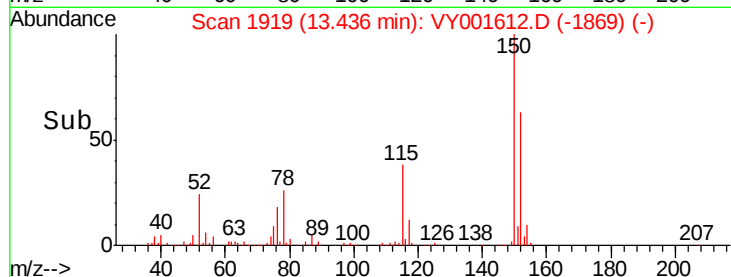
150 158.4 0.0 346.8



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: 1.848 ug/l

RT: 12.13 min Scan# 1705

Delta R.T. -0.02 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Tgt Ion: 43 Resp: 3689

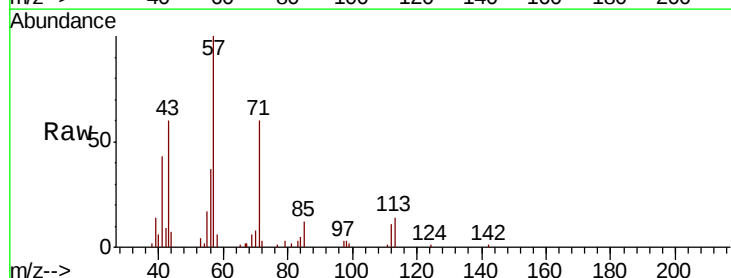
Ion Ratio Lower Upper

43 100

70 0.0 37.2 55.8#

55 0.0 18.8 28.2#

61 0.0 21.4 32.2#

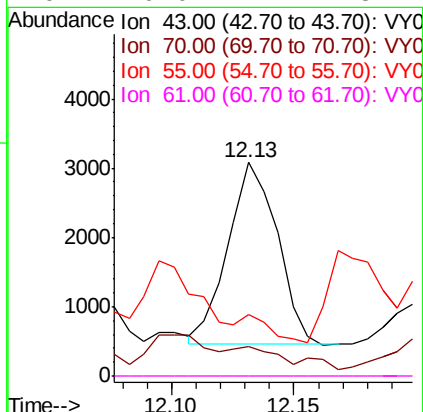
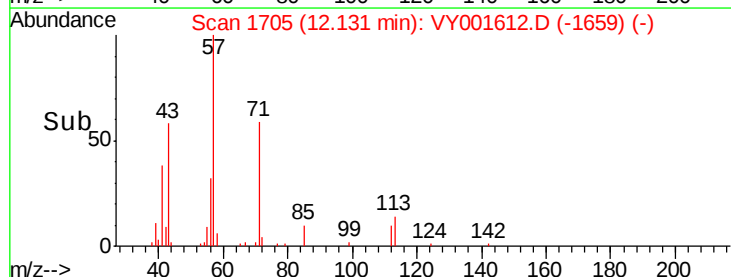


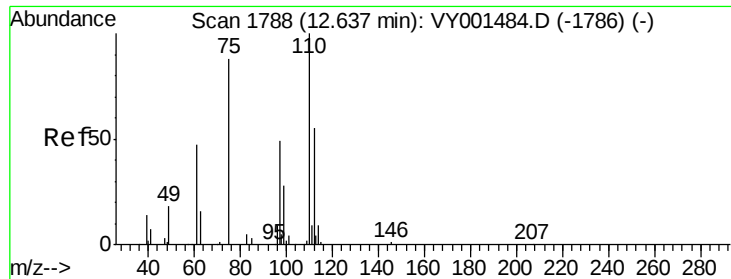
Abundance Ion 43.00 (42.70 to 43.70): VY0

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





#76

1,2,3-Trichloropropane

Concen: 52.681 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Instrument :

MSVOA_Y

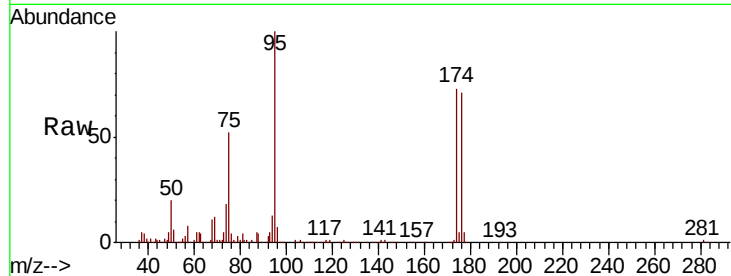
ClientSampleId :

Tot Ion: 75 Resp: 57048

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY001612.D (-1739) (-)

Ion 77.00 (76.70 to 77.70): VY001612.D (-1739) (-)

12.49

40000

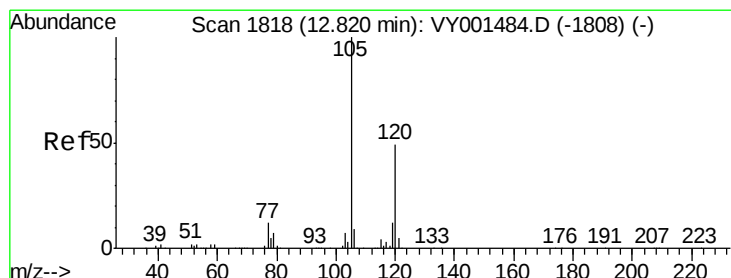
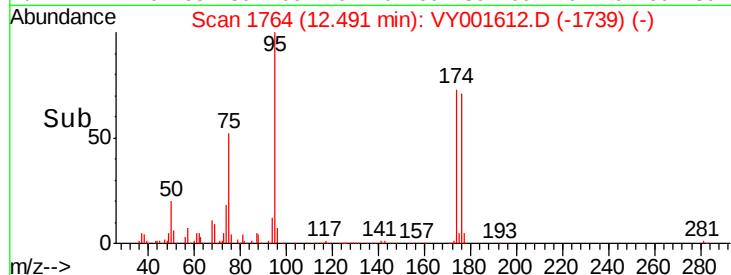
30000

20000

10000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 8.121 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VY001612.D

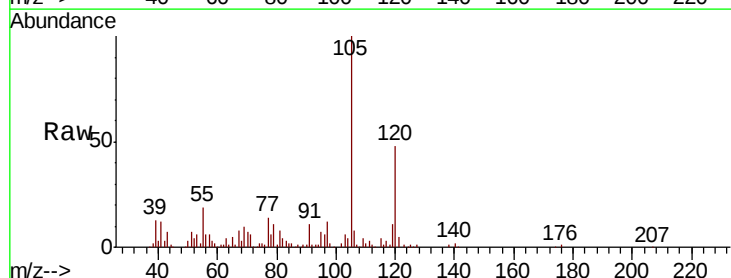
Acq: 12 Feb 2020 14:47

Tgt Ion: 105 Resp: 52525

Ion Ratio Lower Upper

105 100

120 50.1 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VY001612.D (-1769) (-)

Ion 120.00 (119.70 to 120.70): VY001612.D (-1769) (-)

12.82

50000

40000

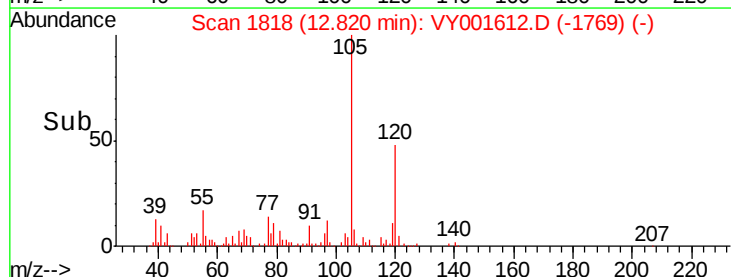
30000

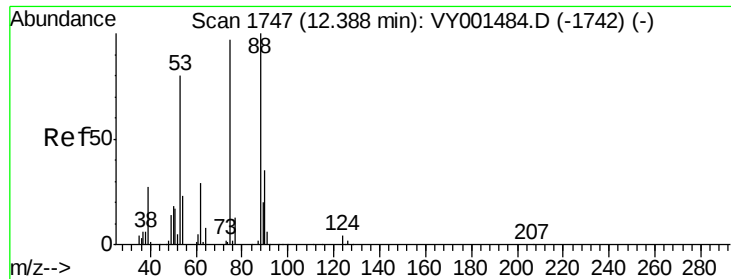
20000

10000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 101.935 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001612.D

Acq: 12 Feb 2020 14:47

Instrument :

MSVOA_Y

ClientSampleId :

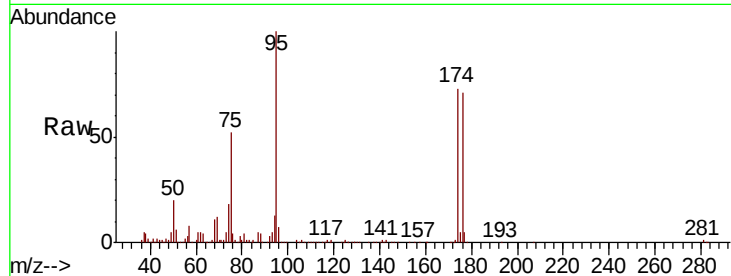
Tot Ion: 75 Resp: 57048

Ion Ratio Lower Upper

75 100

53 1.1 67.7 101.5#

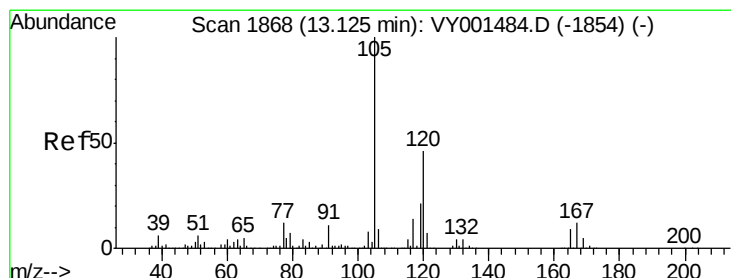
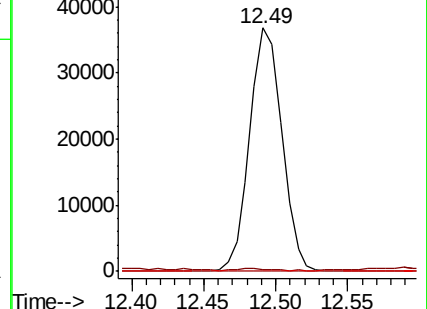
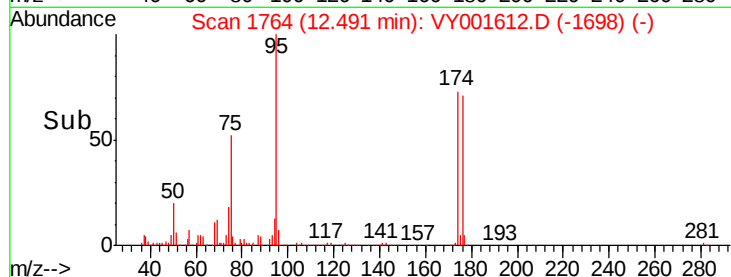
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VY001612.D (-1698) (-)

Ion 53.00 (52.70 to 53.70): VY001612.D (-1698) (-)

Ion 88.90 (88.60 to 89.60): VY001612.D (-1698) (-)



#84

1,2,4-Trimethylbenzene

Concen: 2.464 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY001612.D

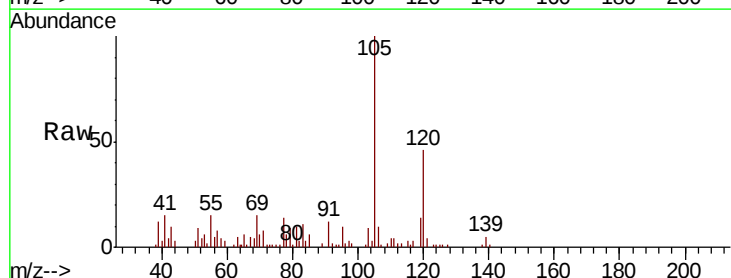
Acq: 12 Feb 2020 14:47

Tgt Ion: 105 Resp: 15771

Ion Ratio Lower Upper

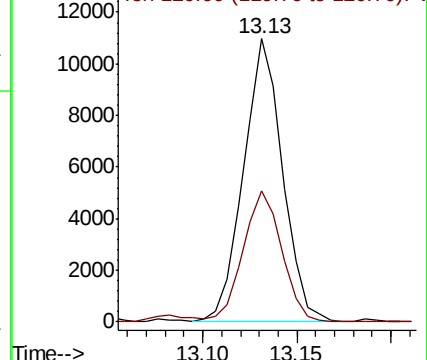
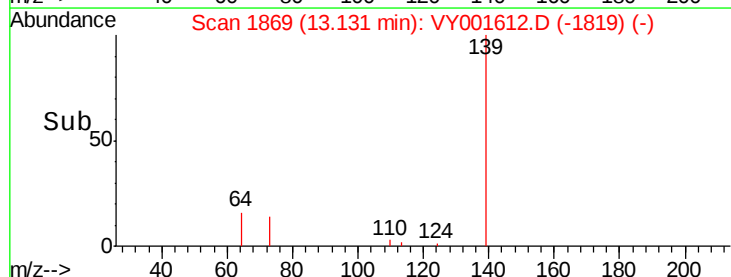
105 100

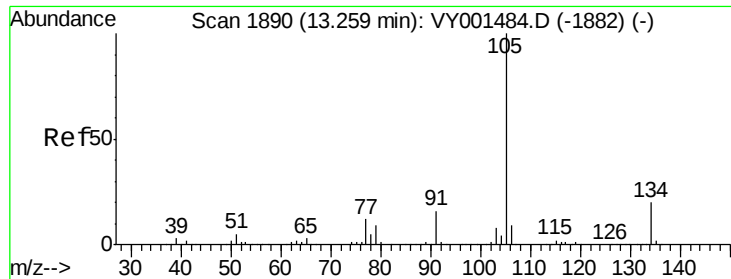
120 45.6 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): VY001612.D (-1819) (-)

Ion 120.00 (119.70 to 120.70): VY001612.D (-1819) (-)

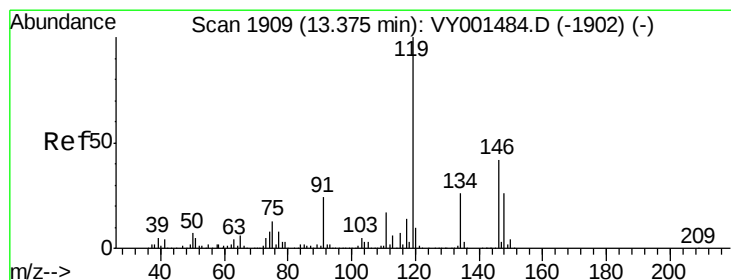
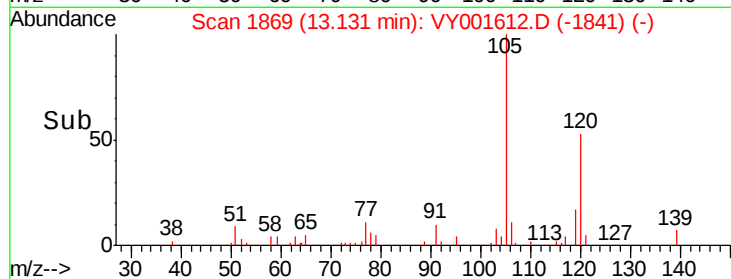
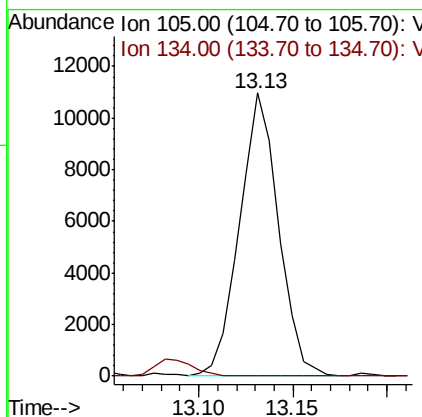
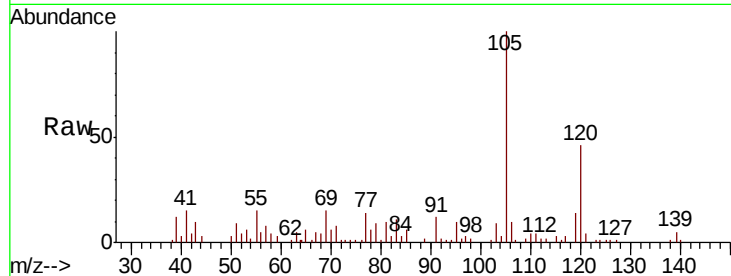




#85
 sec-Butylbenzene
 Concen: 2.052 ug/l
 RT: 13.13 min Scan# 1869
 Delta R.T. -0.13 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

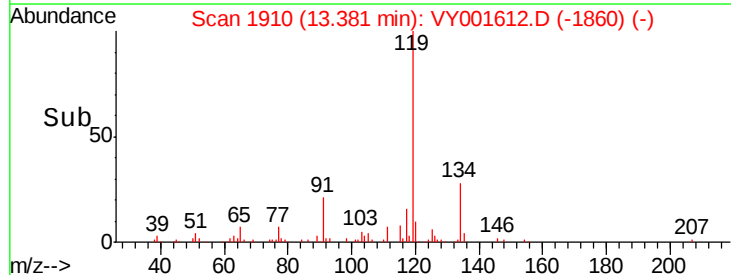
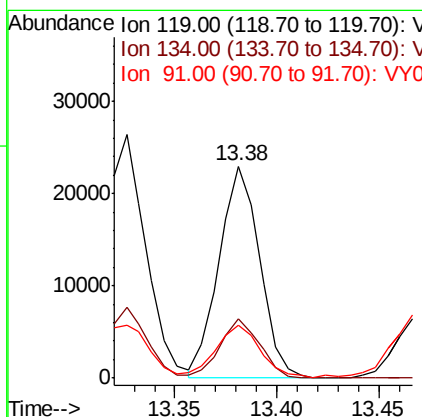
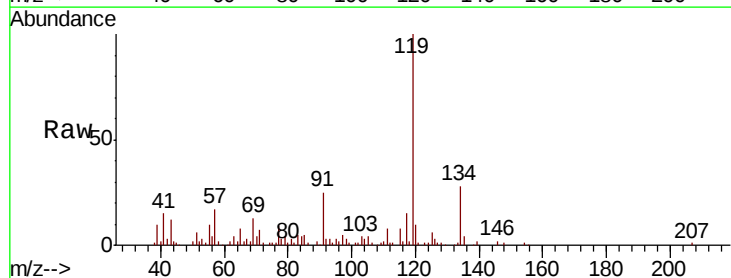
Instrument :
 MSVOA_Y
 ClientSampleId :

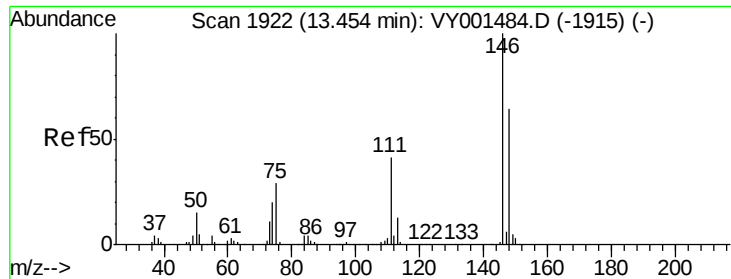
Tot Ion:105 Resp: 15771
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.0 29.8#



#86
 p-Isopropyltoluene
 Concen: 4.695 ug/l
 RT: 13.38 min Scan# 1910
 Delta R.T. 0.01 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Tgt Ion:119 Resp: 31804
 Ion Ratio Lower Upper
 119 100
 134 27.5 13.3 39.8
 91 26.2 12.2 36.6

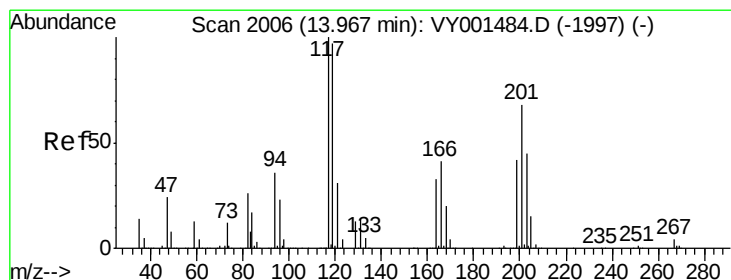
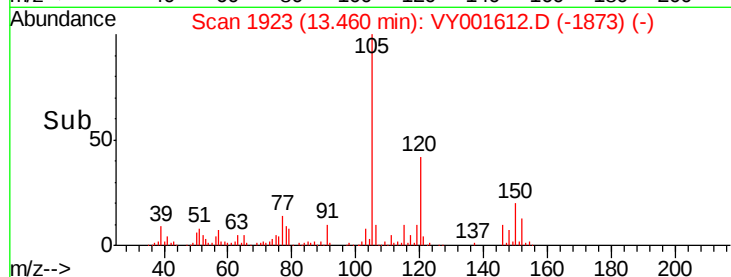
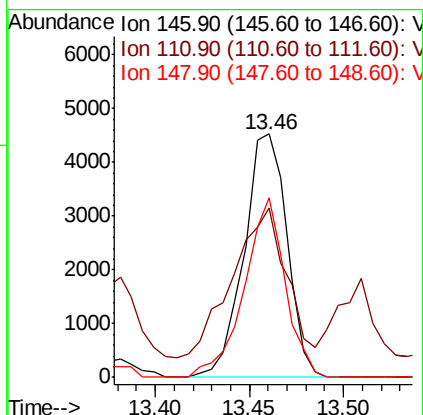
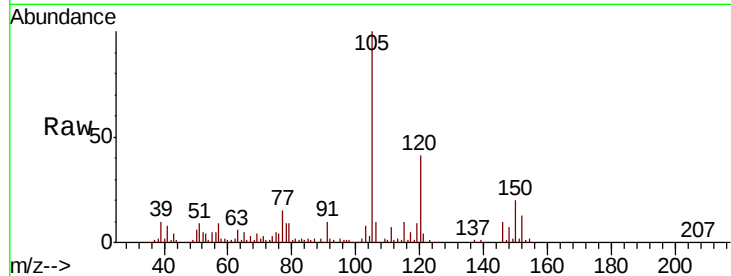




#88
 1,4-Dichlorobenzene
 Concen: 2.243 ug/l
 RT: 13.46 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

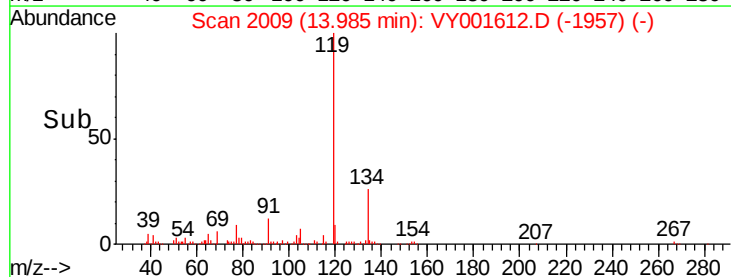
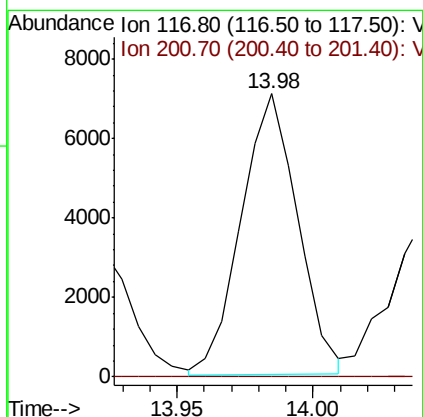
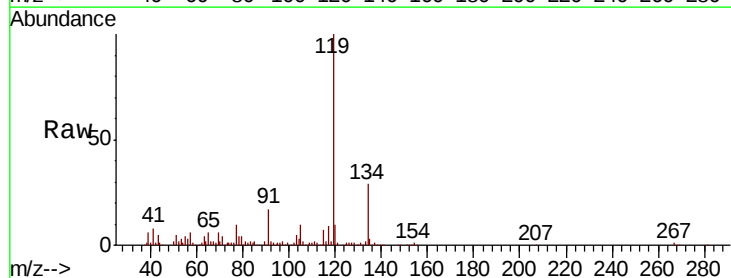
Instrument :
 MSVOA_Y
 ClientSampled :

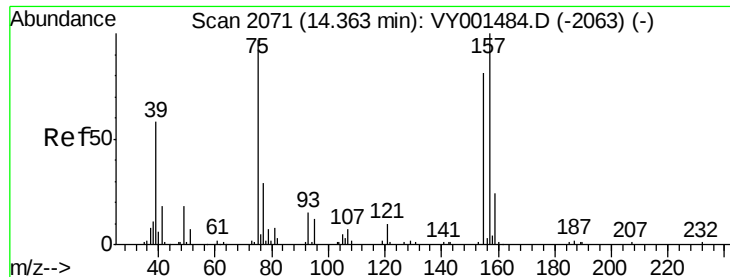
Tot Ion:146 Resp: 7159
 Ion Ratio Lower Upper
 146 100
 111 75.8 20.7 62.1#
 148 70.1 32.1 96.5



#90
 Hexachloroethane
 Concen: 7.820 ug/l
 RT: 13.98 min Scan# 2009
 Delta R.T. 0.02 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Tgt Ion:117 Resp: 10167
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.1 102.3#

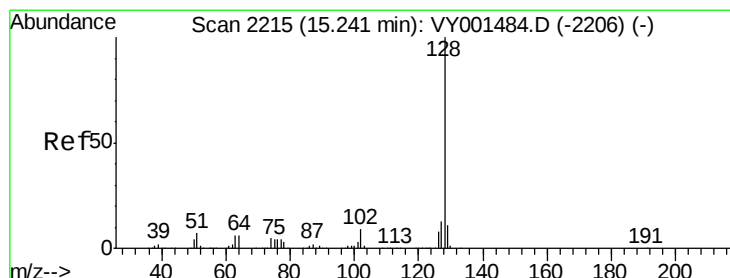
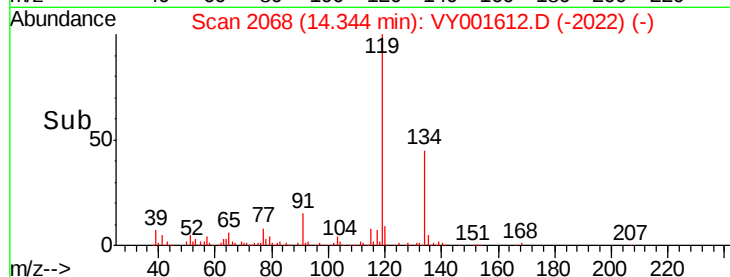
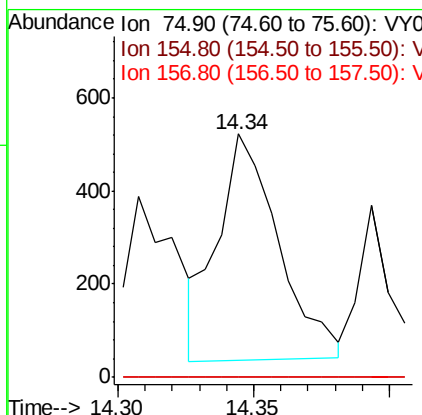
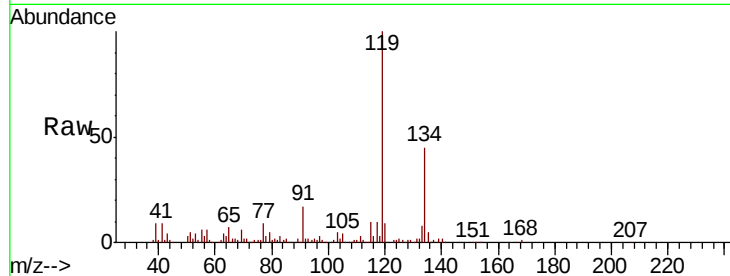




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.799 ug/l
 RT: 14.34 min Scan# 2068
 Delta R.T. -0.02 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion: 75 Resp: 754
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.7 122.1#
 157 0.0 52.3 157.1#



#95
 Naphthalene
 Concen: 24.267 ug/l
 RT: 15.25 min Scan# 2217
 Delta R.T. 0.01 min
 Lab File: VY001612.D
 Acq: 12 Feb 2020 14:47

Tgt Ion: 128 Resp: 110938
 Ion Ratio Lower Upper
 128 100
 127 13.9 10.1 15.1
 129 10.2 8.9 13.3

