

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY041420\
 Data File : VY002309.D
 Acq On : 14 Apr 2020 15:26
 Operator : SY/MD
 Sample : L2122-06
 Misc : 7.28G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Apr 15 05:35:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y040820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 08 15:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	135209	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	274704	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	235634	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	80031	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	79500	52.87	ug/l	0.00
Spiked Amount						
			Recovery	=	105.74%	
35) Dibromofluoromethane	7.72	113	80893	49.49	ug/l	-0.01
Spiked Amount						
			Recovery	=	98.98%	
50) Toluene-d8	10.18	98	322629	47.16	ug/l	0.00
Spiked Amount						
			Recovery	=	94.32%	
62) 4-Bromofluorobenzene	12.48	95	93203	41.29	ug/l	0.00
Spiked Amount						
			Recovery	=	82.58%	

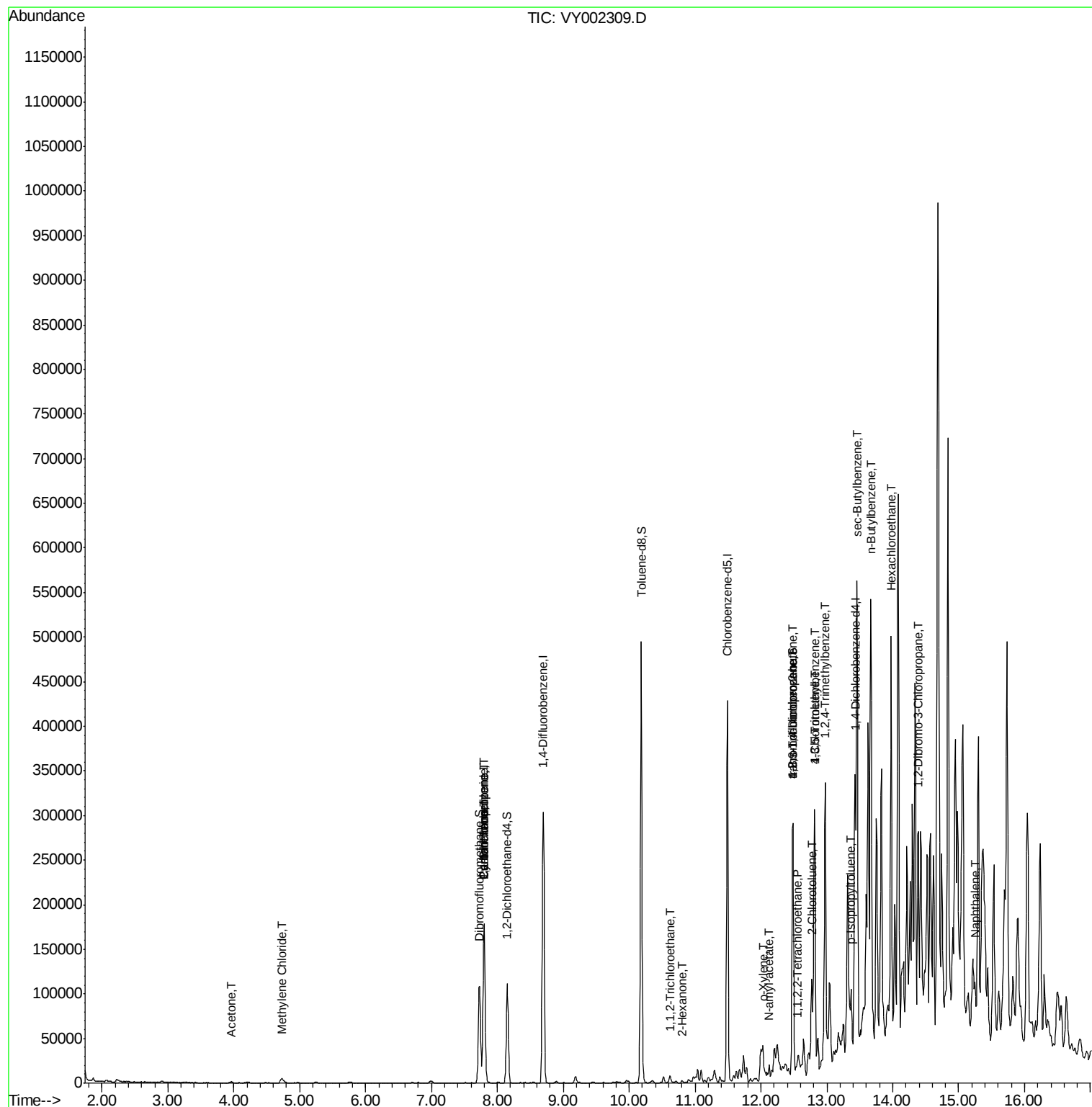
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.96	59	542	Below Cal	#	77
16) Acetone	3.96	43	1356	3.424	ug/l #	80
20) Methylene Chloride	4.74	84	3526	1.811	ug/l	87
31) Cyclohexane	7.80	56	3556	1.123	ug/l #	1
36) 1,1-Dichloropropene	7.79	75	10789	3.987	ug/l #	49
38) Carbon Tetrachloride	7.80	117	13707	5.922	ug/l #	16
55) 1,1,2-Trichloroethane	10.62	97	3290	2.110	ug/l #	18
59) 2-Hexanone	10.80	43	1112	1.091	ug/l #	24
69) o-Xylene	12.03	106	6849	2.172	ug/l	95
74) N-amyl acetate	12.13	43	3493	1.957	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.55	83	840	1.104	ug/l #	25
76) 1,2,3-Trichloropropane	12.48	75	44691	48.089	ug/l #	100
79) 2-Chlorotoluene	12.77	91	6035	1.420	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.81	105	118381	22.767	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.48	75	44691	93.533	ug/l #	20
82) 4-Chlorotoluene	12.81	91	11881	2.668	ug/l #	42
84) 1,2,4-Trimethylbenzene	12.97	105	194242	37.409	ug/l	77
85) sec-Butylbenzene	13.46	105	307111	47.333	ug/l #	57
86) p-Isopropyltoluene	13.37	119	30945	5.541	ug/l	100
89) n-Butylbenzene	13.66	91	54489	9.519	ug/l #	1
90) Hexachloroethane	13.97	117	19816	18.622	ug/l #	17
92) 1,2-Dibromo-3-Chloropropan	14.39	75	644	3.500	ug/l #	1
95) Naphthalene	15.24	128	7088	2.033	ug/l #	69

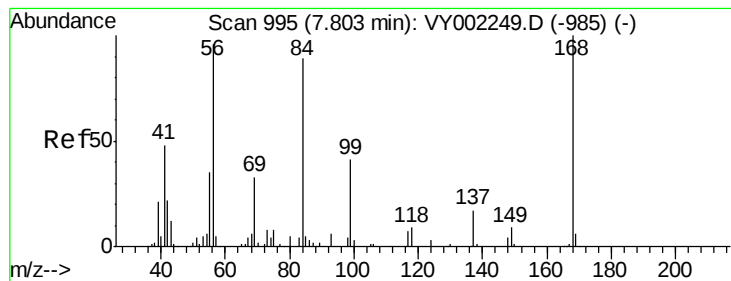
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY041420\
Data File : VY002309.D
Acq On : 14 Apr 2020 15:26
Operator : SY/MD
Sample : L2122-06
Misc : 7.28G/5ML/MSVOA Y/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Apr 15 05:35:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y040820S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 08 15:15:02 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

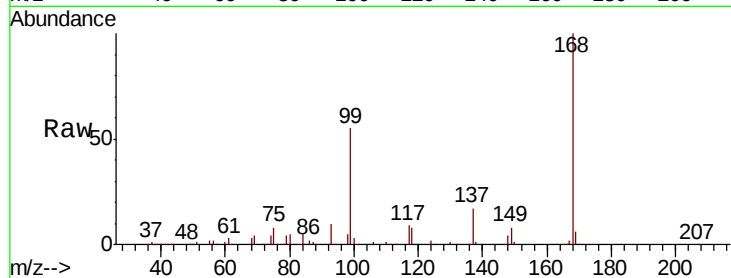
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 135209

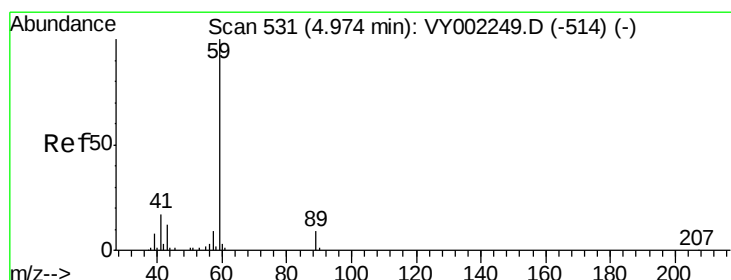
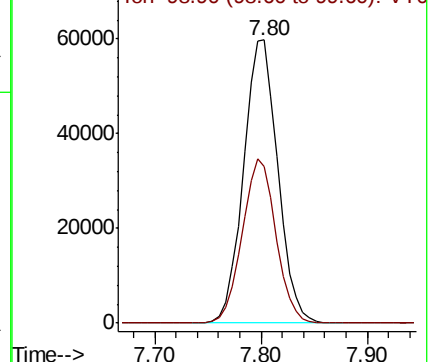
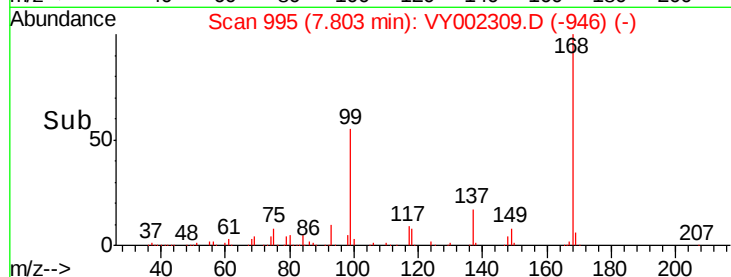
Ion Ratio Lower Upper

168 100

99 55.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VY002249.D (-985) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.96 min Scan# 529

Delta R.T. -0.01 min

Lab File: VY002309.D

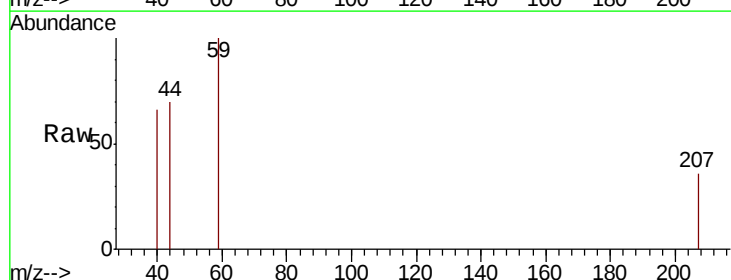
Acq: 14 Apr 2020 15:26

Tgt Ion: 59 Resp: 542

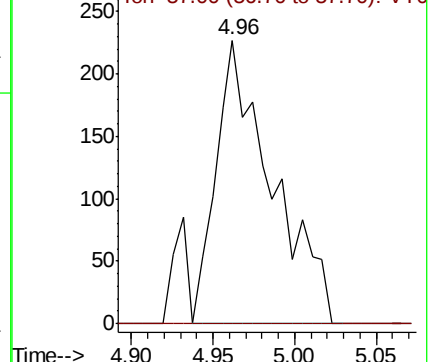
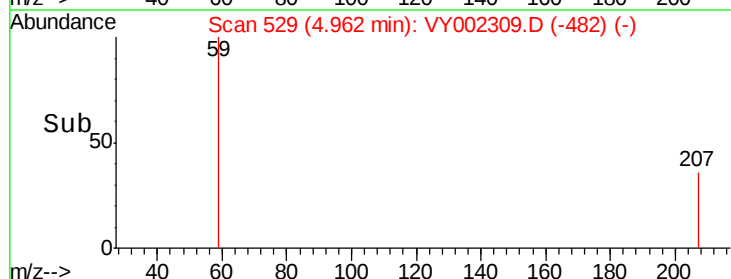
Ion Ratio Lower Upper

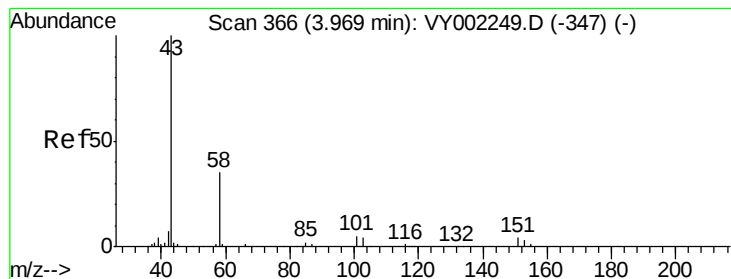
59 100

57 0.0 6.6 9.8#



Abundance Ion 59.00 (58.70 to 59.70): VY002249.D (-514) (-)





#16

Acetone

Concen: 3.424 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.01 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Instrument :

MSVOA_Y

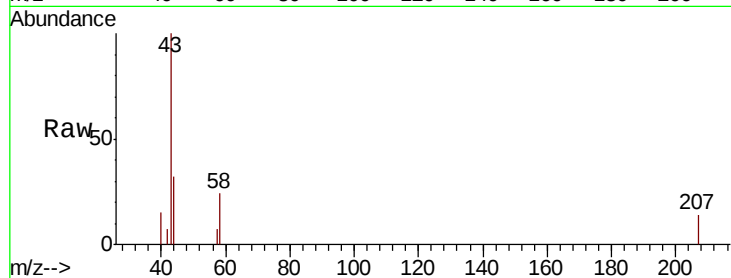
ClientSampleId :

Tot Ion: 43 Resp: 1356

Ion Ratio Lower Upper

43 100

58 23.8 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VY002249.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY002249.D (-347) (-)

3.96

800

600

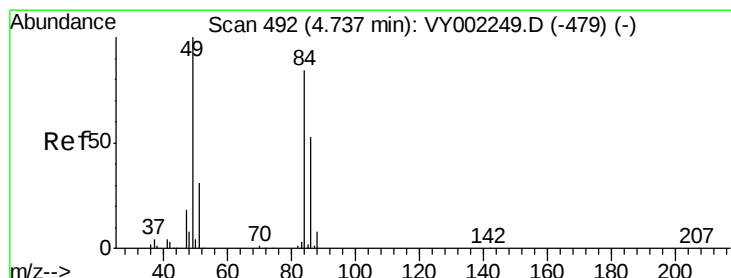
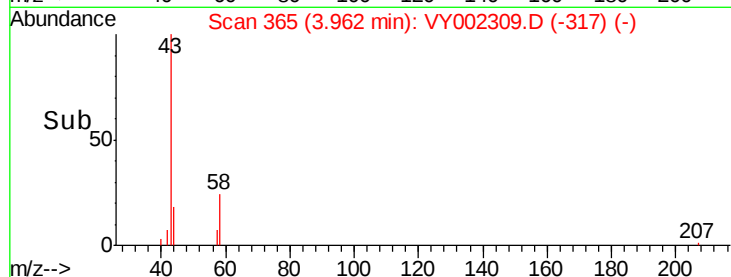
400

200

0

3.90 3.95 4.00

Time-->



#20

Methylene Chloride

Concen: 1.811 ug/l

RT: 4.74 min Scan# 492

Delta R.T. -0.00 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Tgt Ion: 84 Resp: 3526

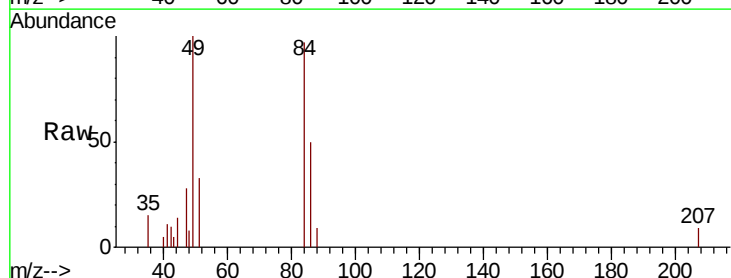
Ion Ratio Lower Upper

84 100

49 103.2 95.5 143.3

51 33.8 29.5 44.3

86 51.2 50.7 76.1



Abundance Ion 83.90 (83.60 to 84.60): VY002249.D (-479) (-)

Ion 48.90 (48.60 to 49.60): VY002249.D (-479) (-)

Ion 50.90 (50.60 to 51.60): VY002249.D (-479) (-)

Ion 85.90 (85.60 to 86.60): VY002249.D (-479) (-)

2000

1500

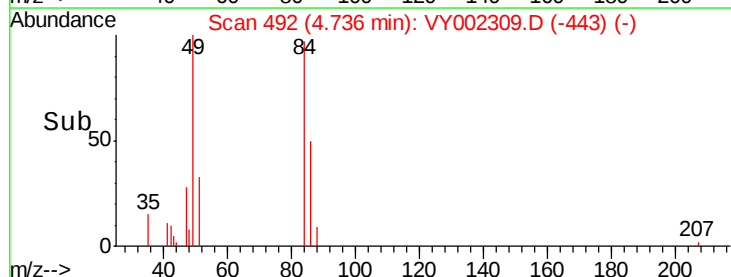
1000

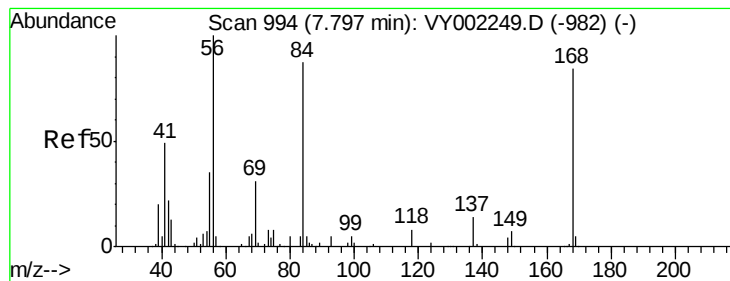
500

0

4.60 4.65 4.70 4.75 4.80

Time-->





#31

Cyclohexane

Concen: 1.123 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Instrument :
MSVOA_Y
ClientSampled :

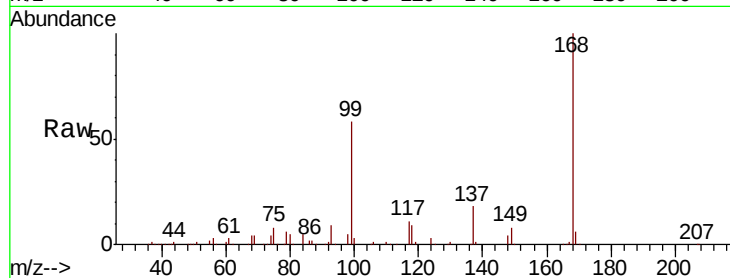
Tot Ion: 56 Resp: 3556

Ion Ratio Lower Upper

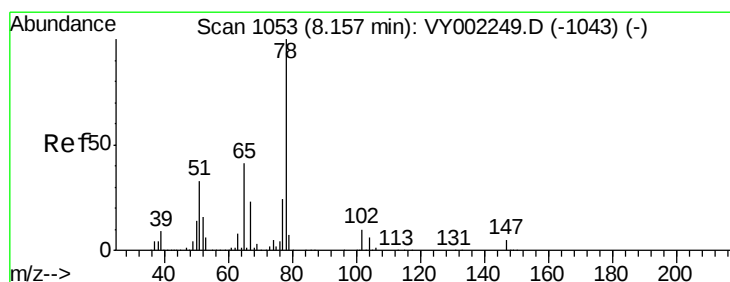
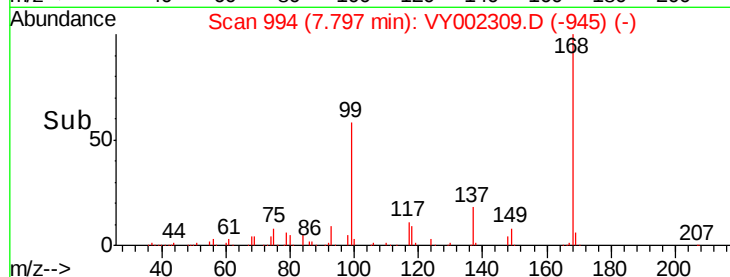
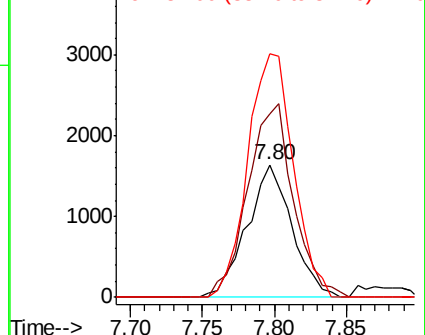
56 100

69 138.6 25.0 37.6#

84 183.6 69.7 104.5#



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: 52.872 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY002309.D

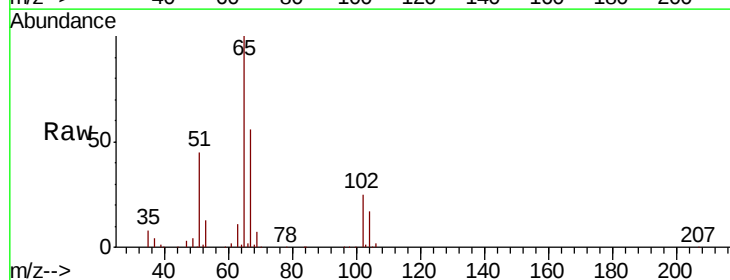
Acq: 14 Apr 2020 15:26

Tgt Ion: 65 Resp: 79500

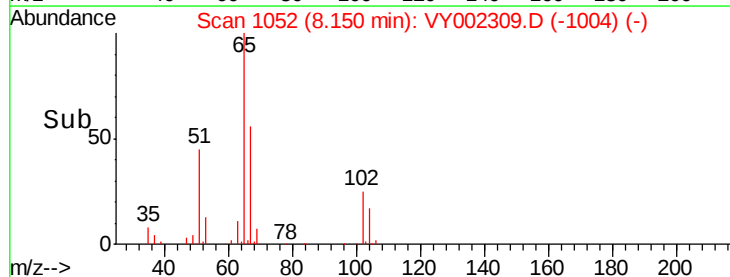
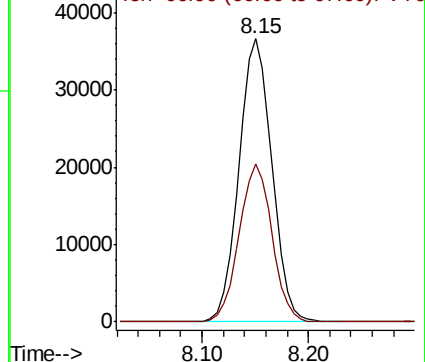
Ion Ratio Lower Upper

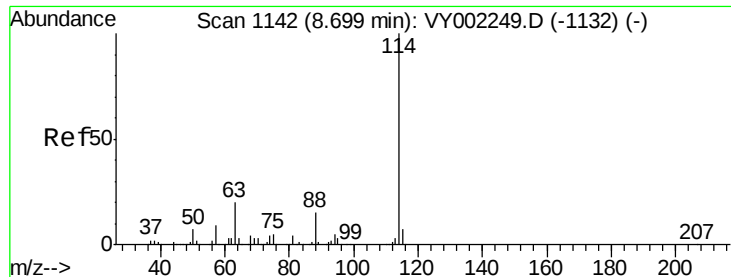
65 100

67 55.8 0.0 114.0



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

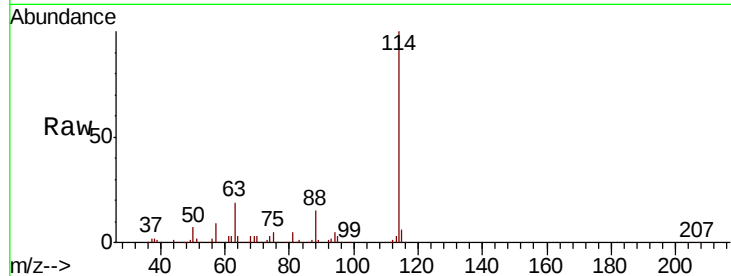




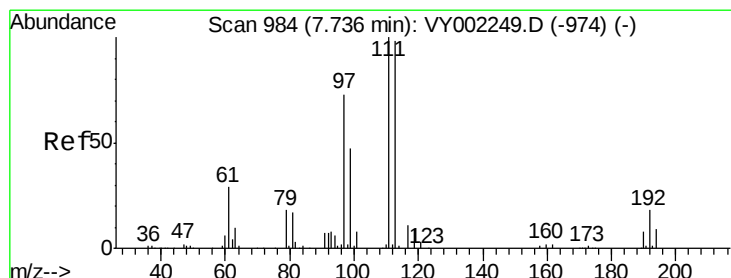
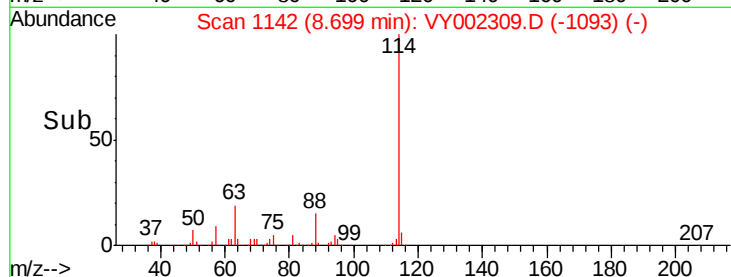
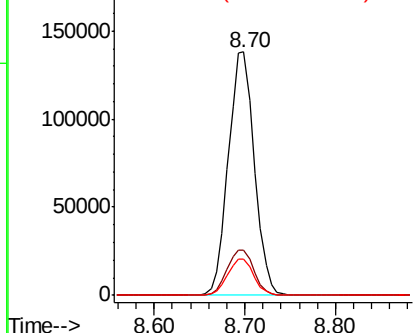
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:114 Resp: 274704
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.0
 88 15.0 0.0 31.0

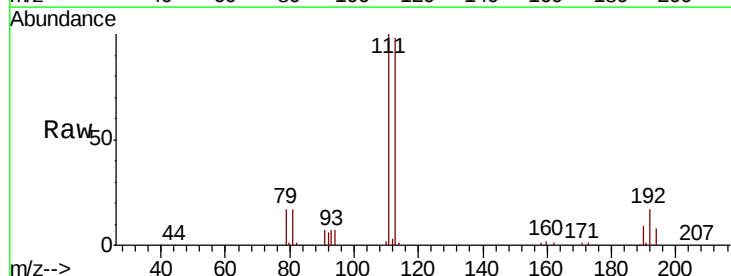


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

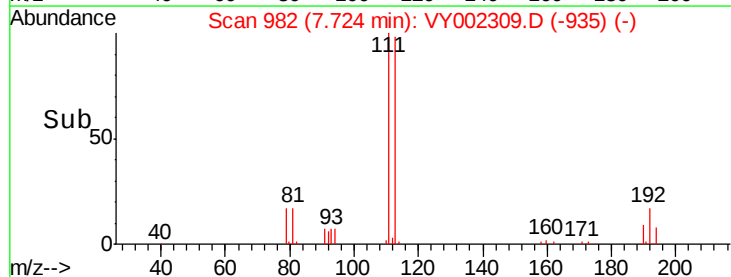
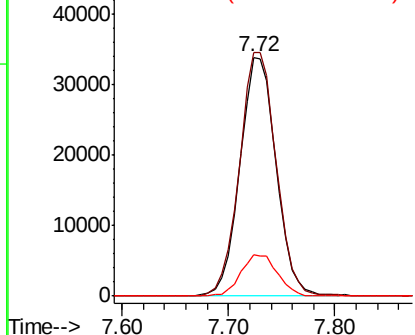


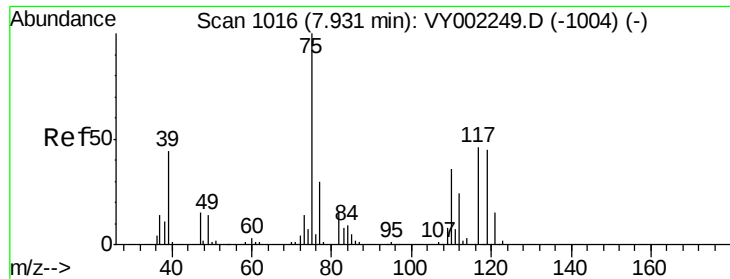
#35
 Dibromofluoromethane
 Concen: 49.489 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Tgt Ion:113 Resp: 80893
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.5 125.3
 192 17.7 14.7 22.1



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

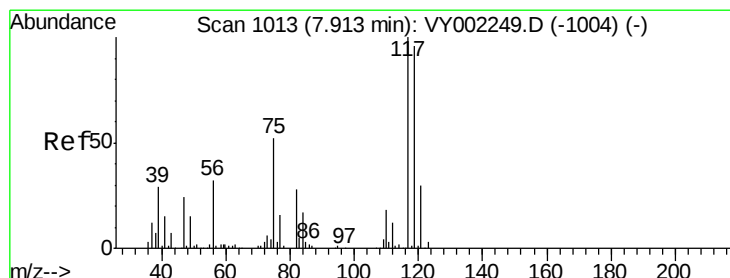
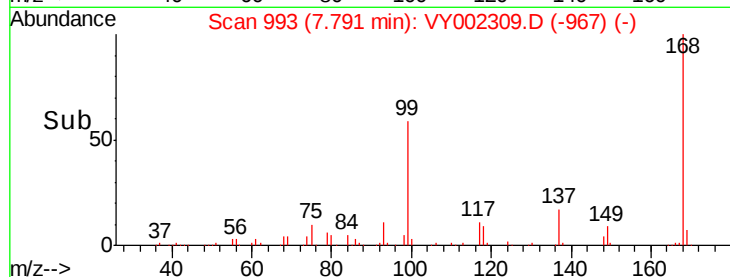
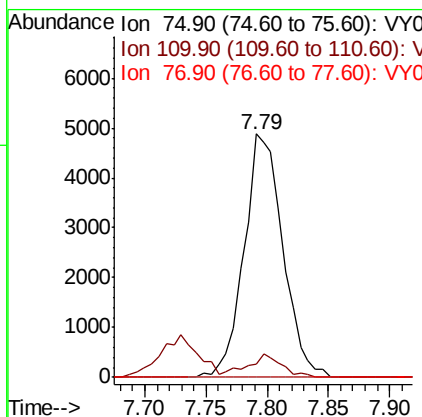
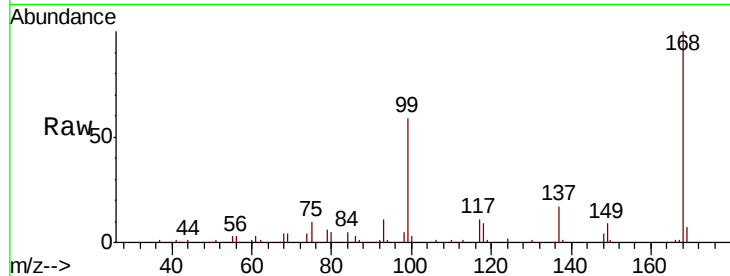




#36
 1,1-Dichloropropene
 Concen: 3.987 ug/l
 RT: 7.79 min Scan# 993
 Delta R.T. -0.14 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

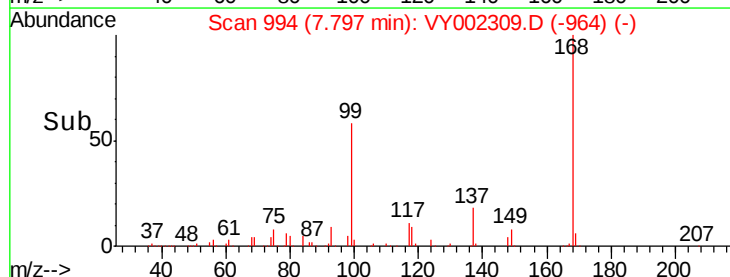
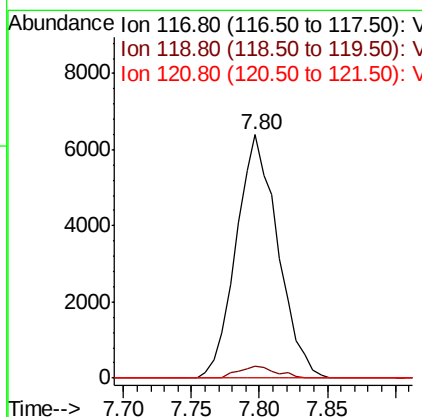
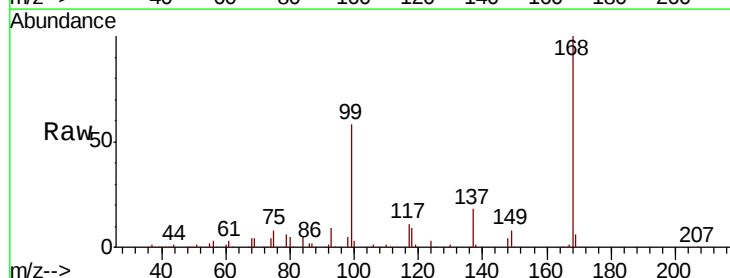
Instrument :
 MSVOA_Y
 ClientSampleId :

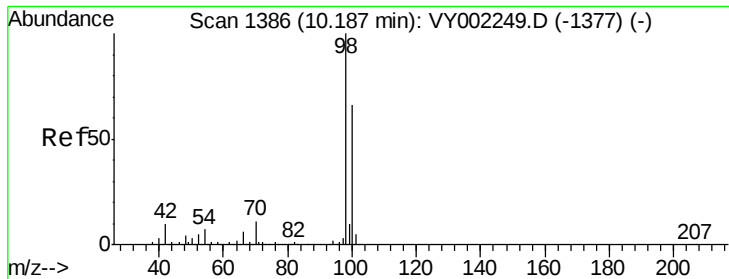
Tot Ion	75	Resp	10789
Ion Ratio	Lower	Upper	
75	100		
110	8.2	17.8	53.3#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 5.922 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.12 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Tgt Ion	117	Resp	13707
Ion Ratio	Lower	Upper	
117	100		
119	4.8	77.1	115.7#
121	0.0	23.9	35.9#





#50

Toluene-d8

Concen: 47.156 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Instrument :

MSVOA_Y

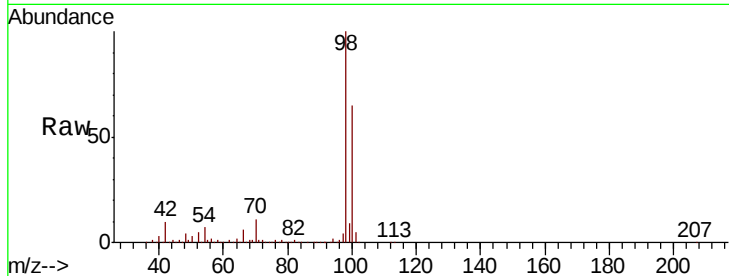
ClientSampleId :

Tot Ion: 98 Resp: 322629

Ion Ratio Lower Upper

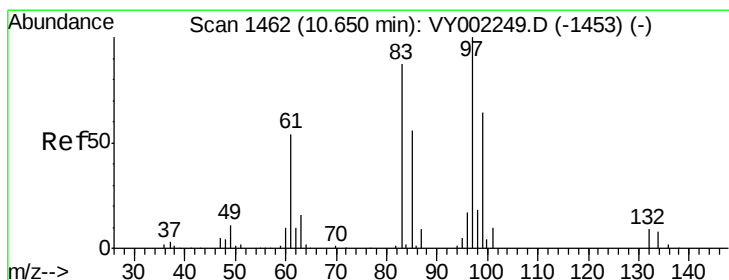
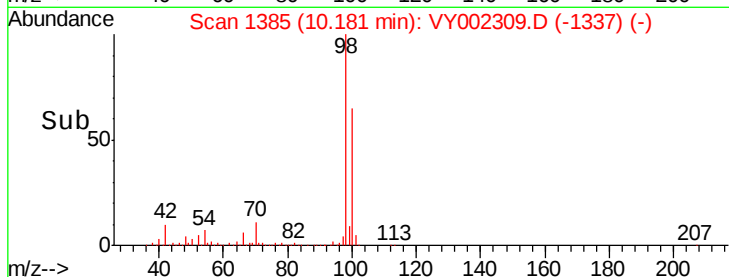
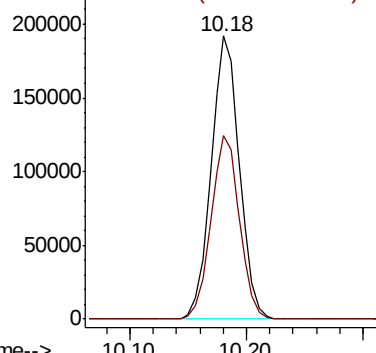
98 100

100 65.2 52.6 78.8



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: 2.110 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.03 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Tgt Ion: 97 Resp: 3290

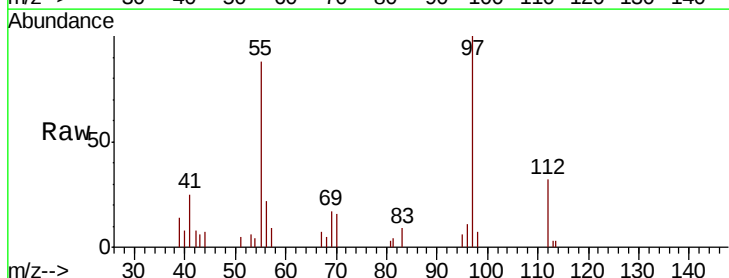
Ion Ratio Lower Upper

97 100

83 8.8 69.5 104.3#

85 0.0 45.2 67.8#

99 0.0 50.9 76.3#

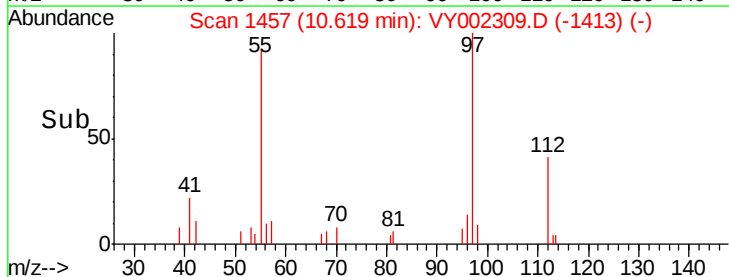
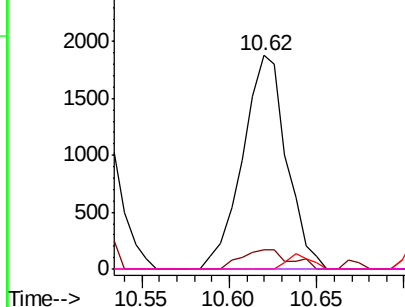


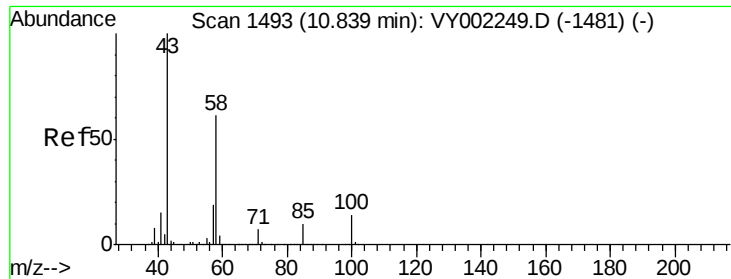
Abundance Ion 96.90 (96.60 to 97.60): VY0

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

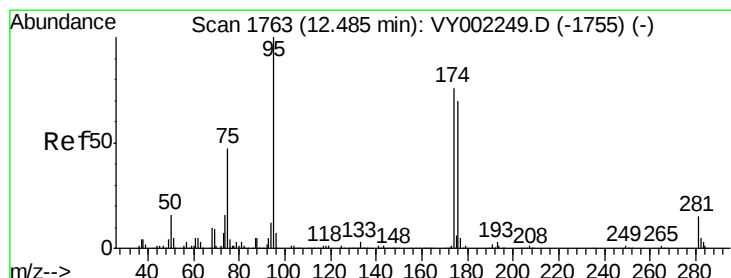
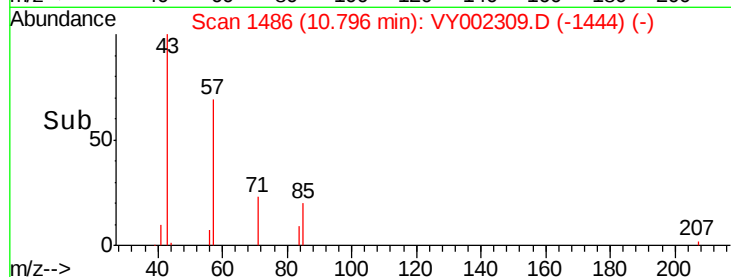
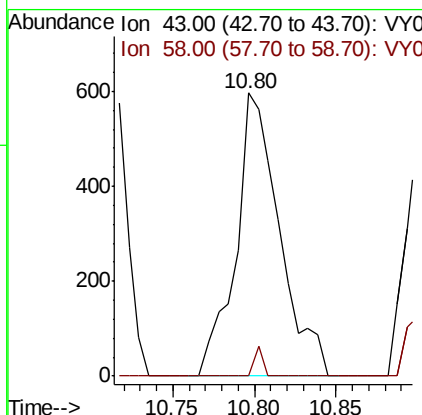
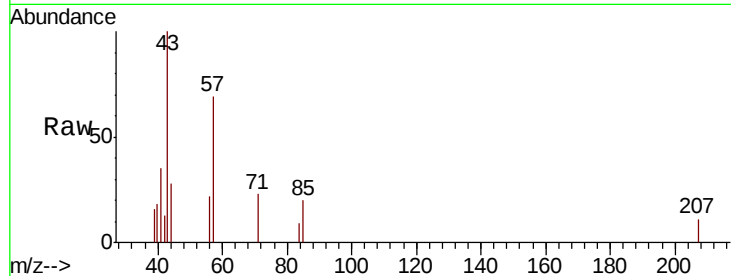




#59
2-Hexanone
Concen: 1.091 ug/l
RT: 10.80 min Scan# 1486
Delta R.T. -0.04 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

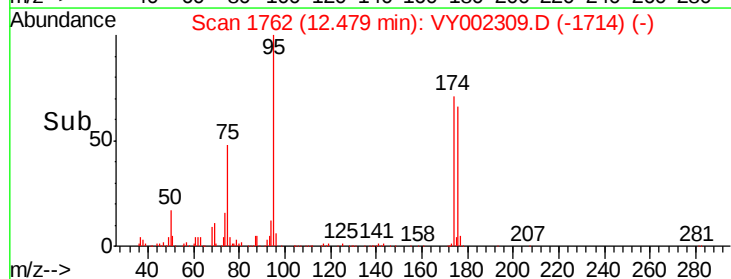
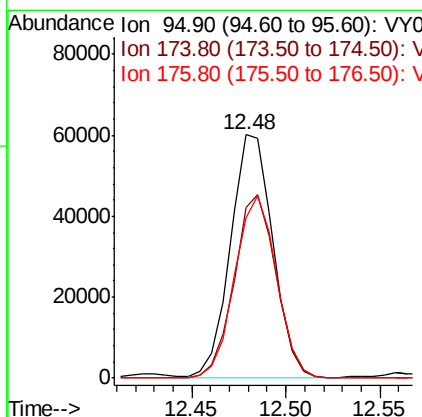
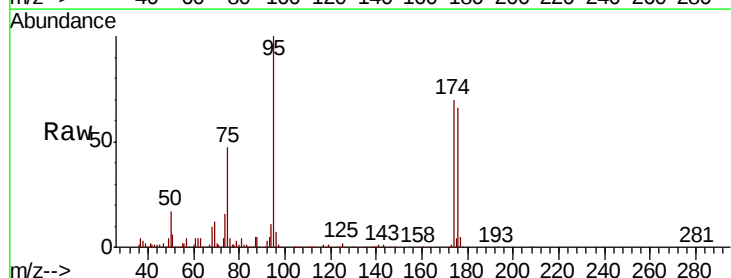
Instrument :
MSVOA_Y
ClientSampleId :

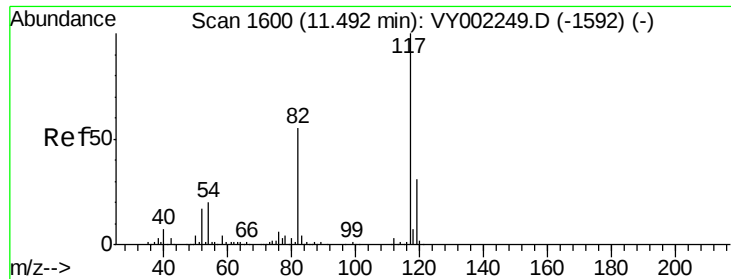
Tot Ion: 43 Resp: 1112
Ion Ratio Lower Upper
43 100
58 2.1 29.8 89.3#



#62
4-Bromofluorobenzene
Concen: 41.292 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

Tgt Ion: 95 Resp: 93203
Ion Ratio Lower Upper
95 100
174 74.8 0.0 150.6
176 74.2 0.0 141.4

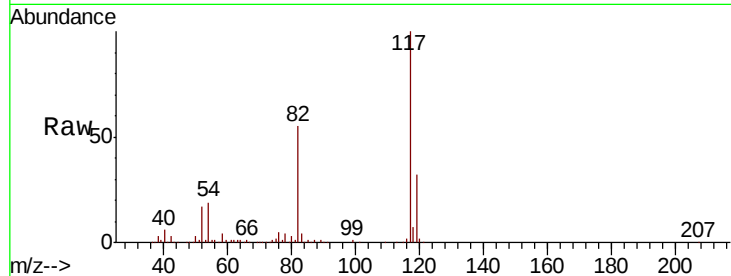




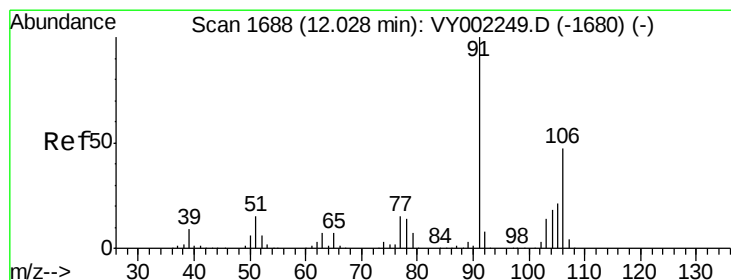
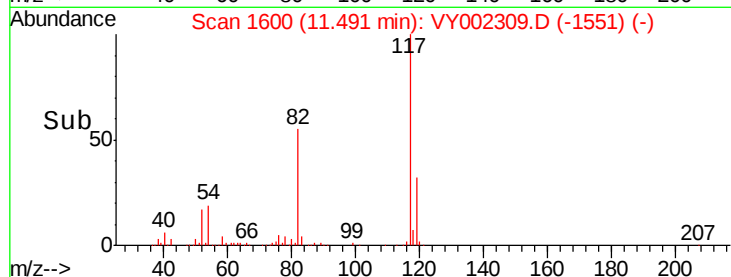
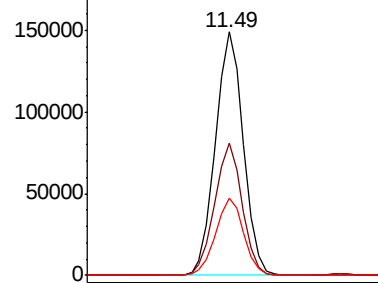
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.2	66.4
119	31.7	25.1	37.7

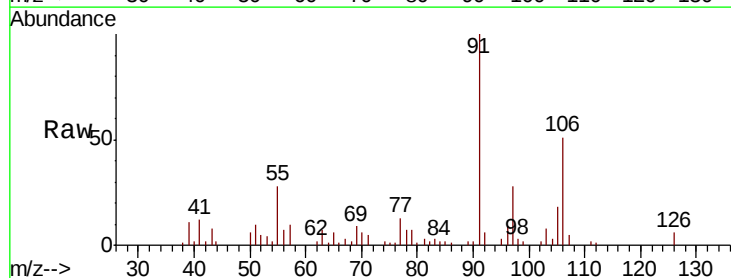


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

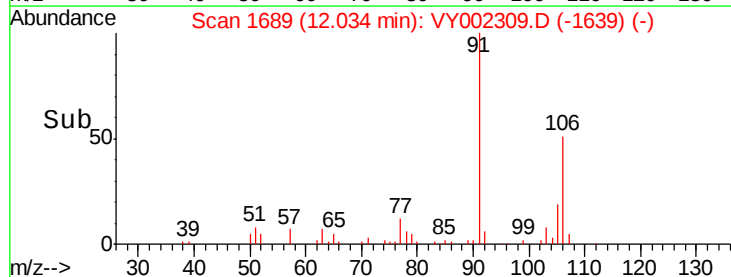
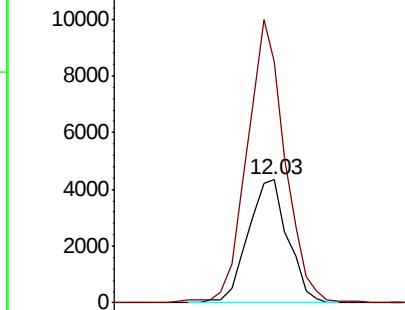


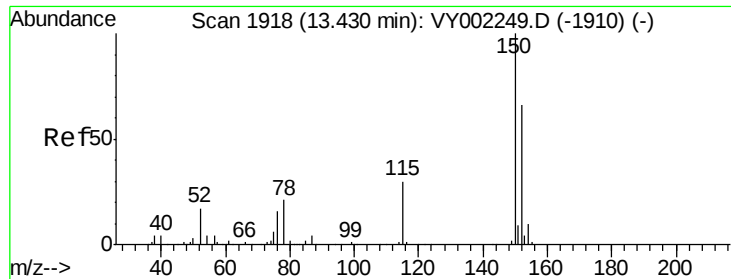
#69
o-Xylene
Concen: 2.172 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

Tgt Ion	Ratio	Lower	Upper
106	100		
91	219.2	105.8	317.3



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



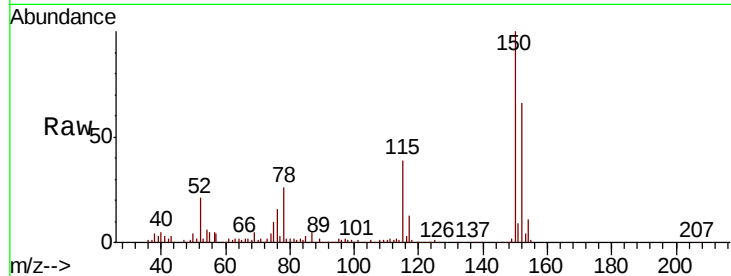


#72

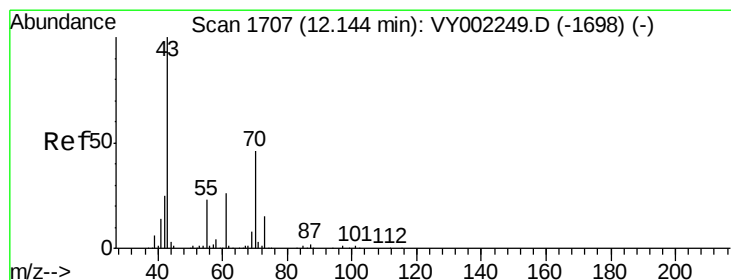
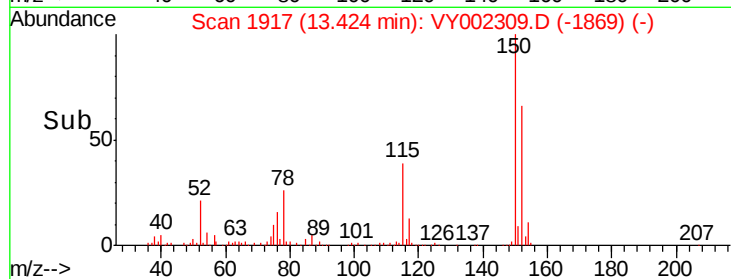
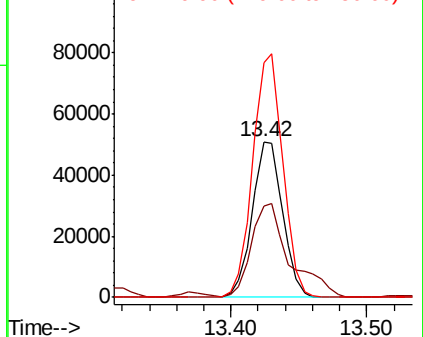
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:152 Resp: 80031
Ion Ratio Lower Upper
152 100
115 76.3 30.7 92.1
150 155.2 0.0 350.6



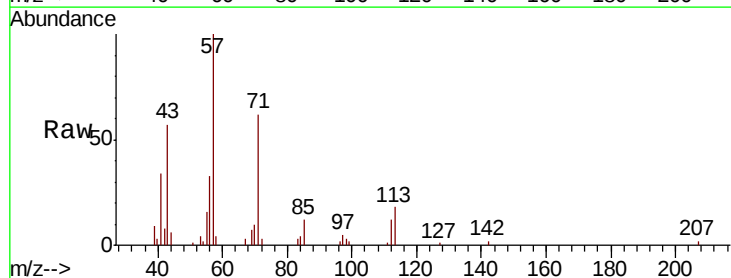
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



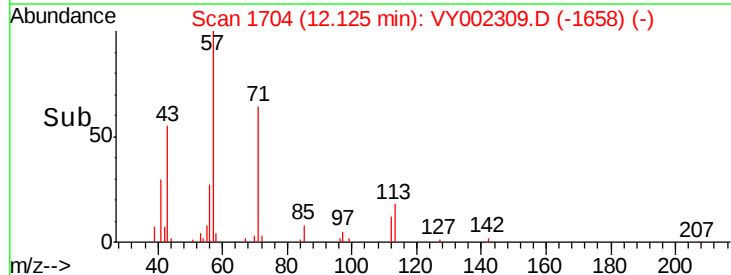
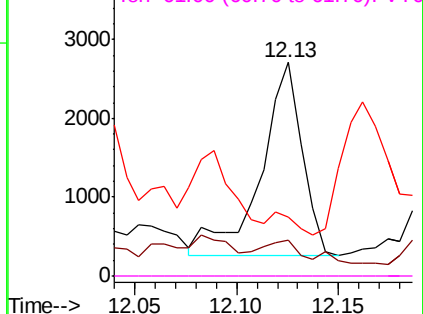
#74

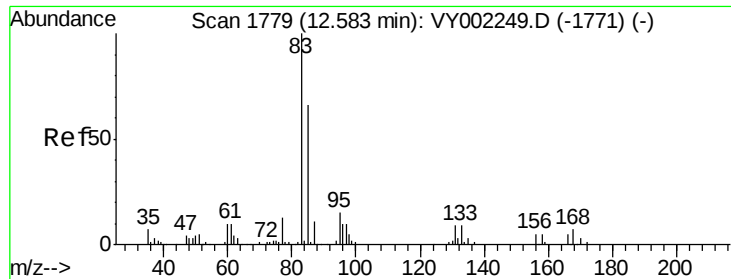
N-ethyl acetate
Concen: 1.957 ug/l
RT: 12.13 min Scan# 1704
Delta R.T. -0.02 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

Tgt Ion: 43 Resp: 3493
Ion Ratio Lower Upper
43 100
70 11.4 37.5 56.3#
55 0.0 19.0 28.6#
61 0.0 21.6 32.4#



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: 1.104 ug/l

RT: 12.55 min Scan# 1773

Delta R.T. -0.04 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Instrument :

MSVOA_Y

ClientSampled :

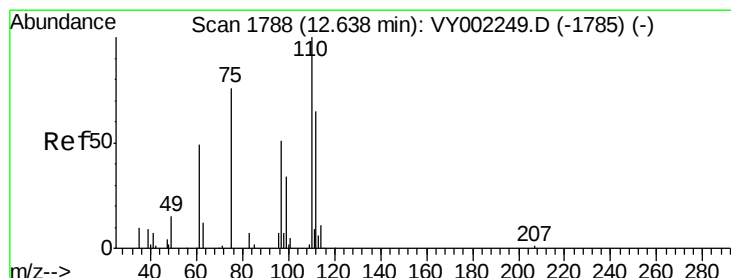
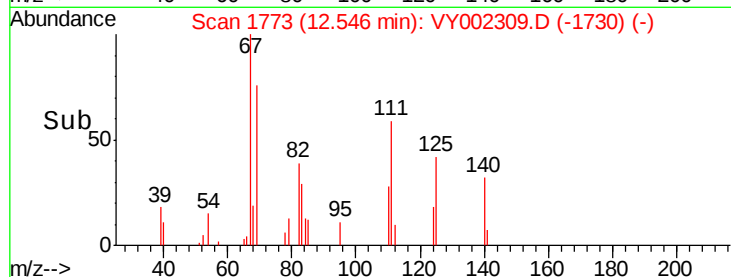
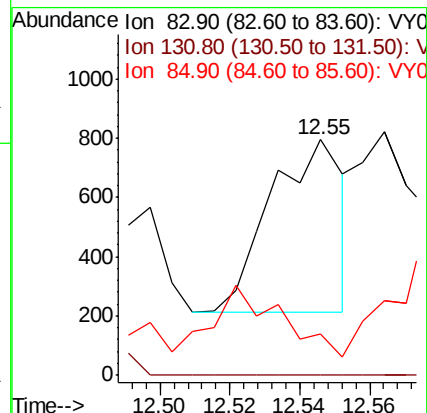
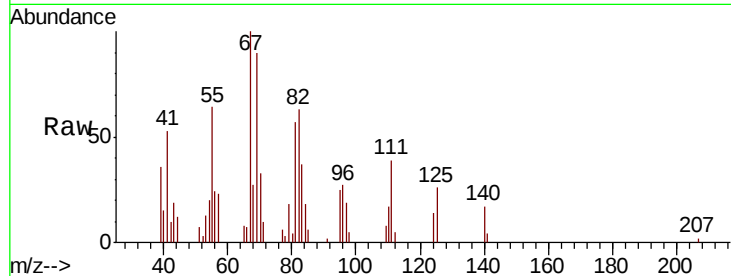
Tot Ion: 83 Resp: 840

Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 32.6 97.8#



#76

1,2,3-Trichloropropane

Concen: 48.089 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

Lab File: VY002309.D

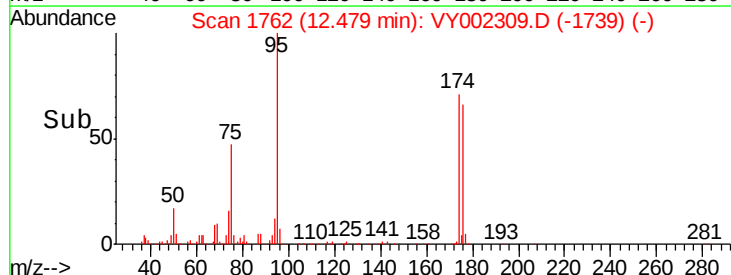
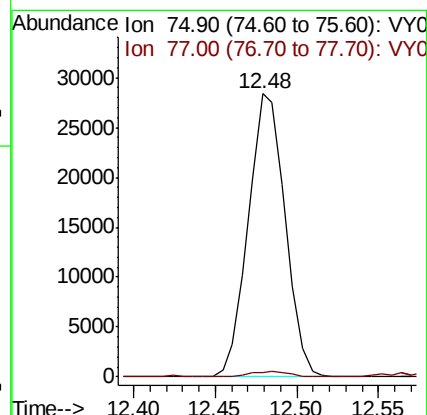
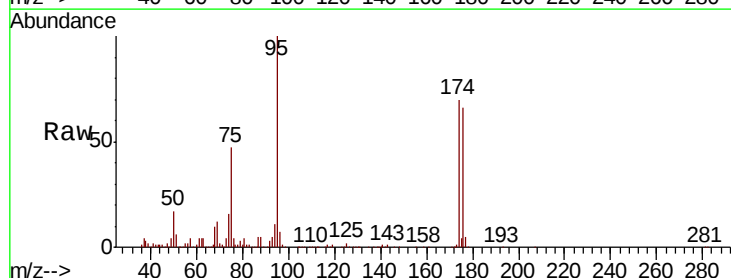
Acq: 14 Apr 2020 15:26

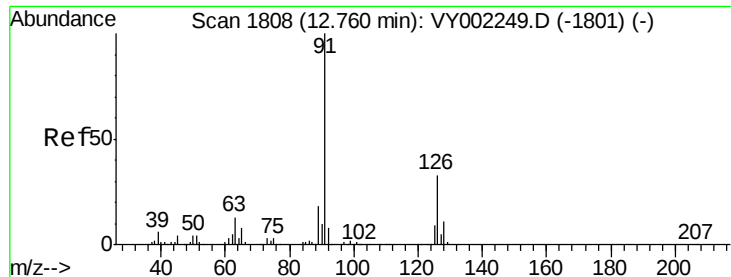
Tgt Ion: 75 Resp: 44691

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#

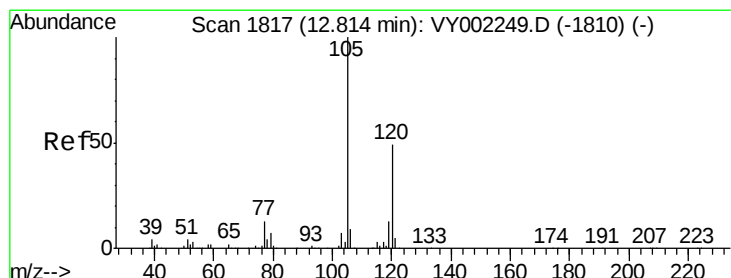
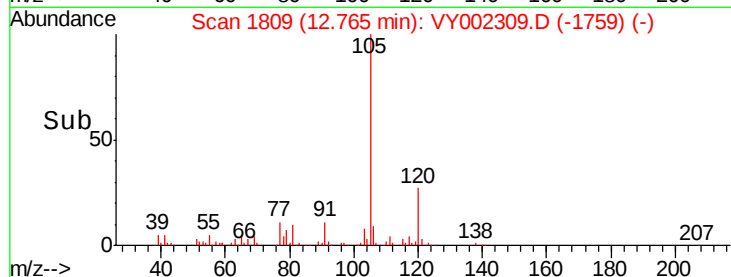
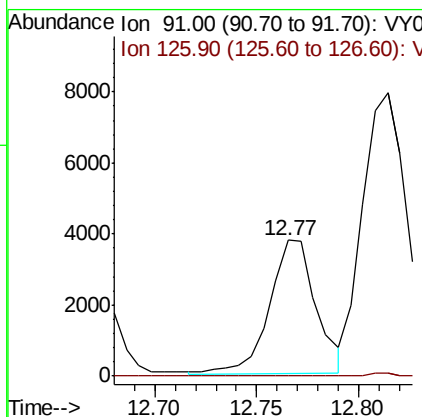
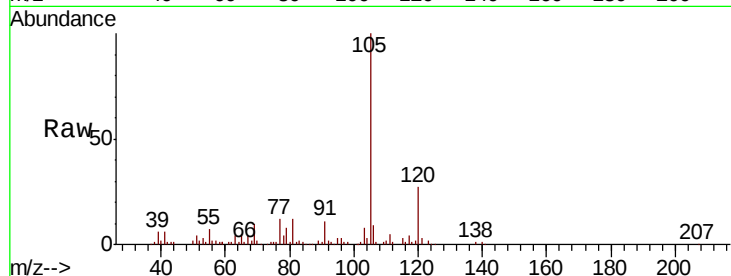




#79
 2-Chlorotoluene
 Concen: 1.420 ug/l
 RT: 12.77 min Scan# 1809
 Delta R.T. 0.01 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

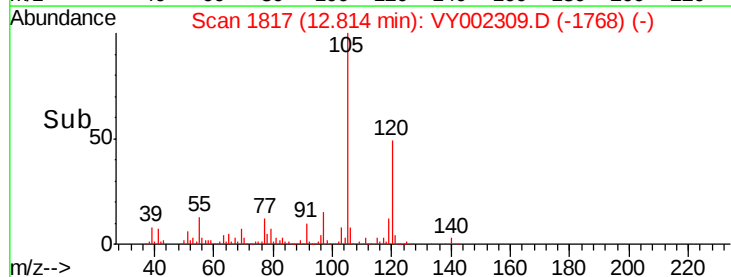
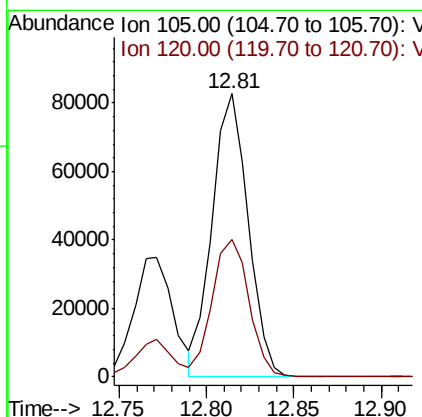
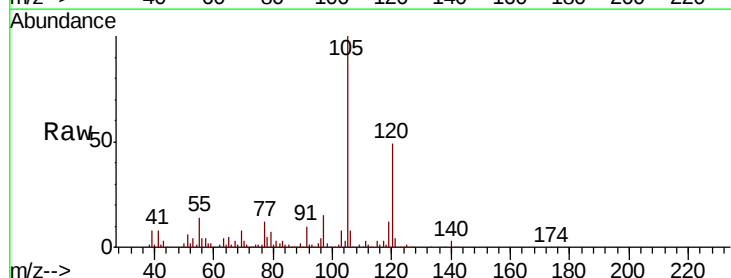
Instrument :
 MSVOA_Y
 ClientSampleId :

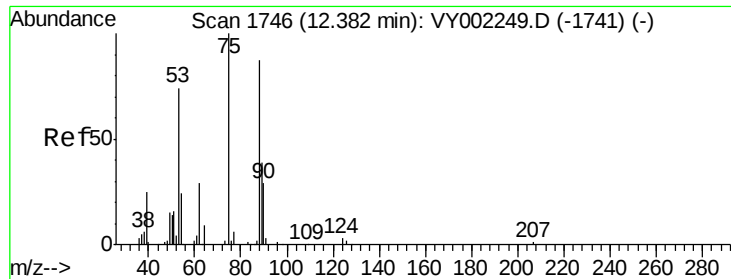
Tot Ion: 91 Resp: 6035
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.9 50.7#



#80
 1,3,5-Trimethylbenzene
 Concen: 22.767 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. -0.00 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Tgt Ion:105 Resp: 118381
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 93.533 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Instrument :

MSVOA_Y

ClientSampleId :

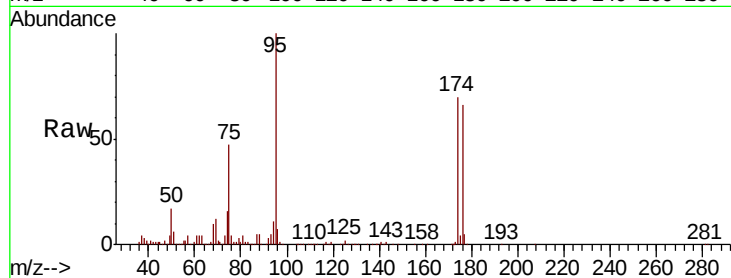
Tot Ion: 75 Resp: 44691

Ion Ratio Lower Upper

75 100

53 1.5 59.8 89.8#

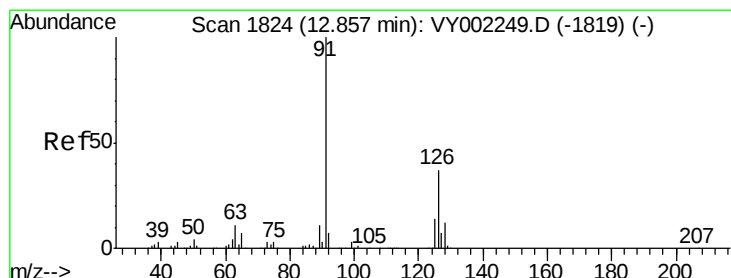
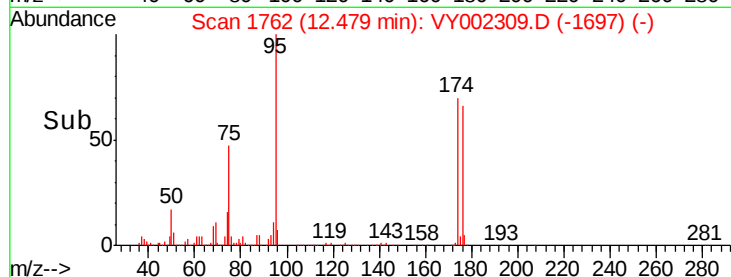
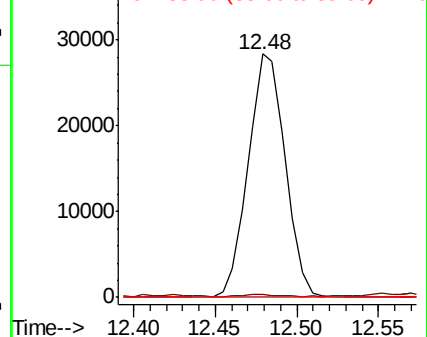
89 0.2 37.0 55.6#



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



#82

4-Chlorotoluene

Concen: 2.668 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.04 min

Lab File: VY002309.D

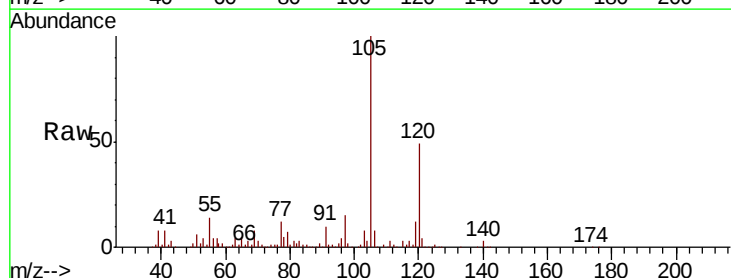
Acq: 14 Apr 2020 15:26

Tgt Ion: 91 Resp: 11881

Ion Ratio Lower Upper

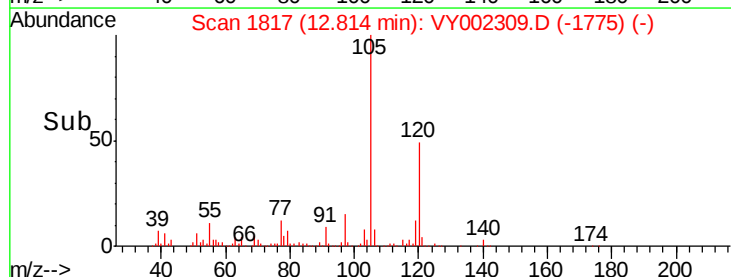
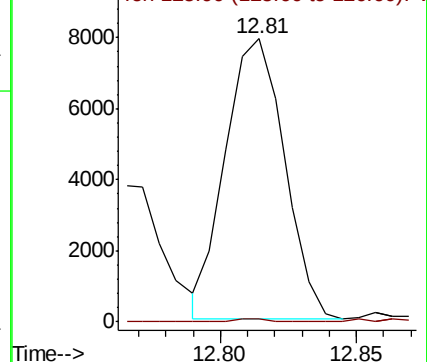
91 100

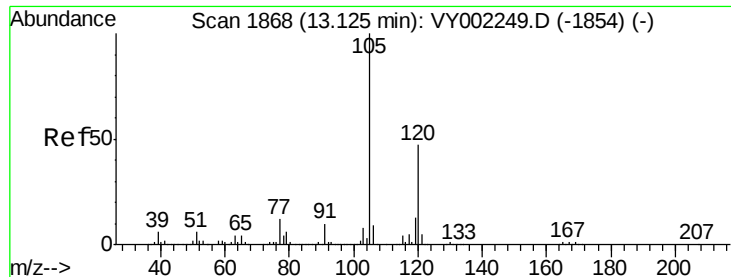
126 0.5 16.9 50.7#



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V

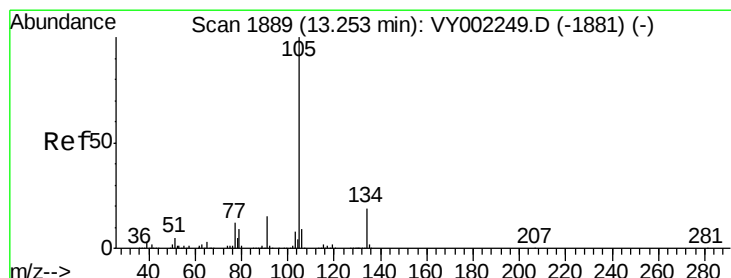
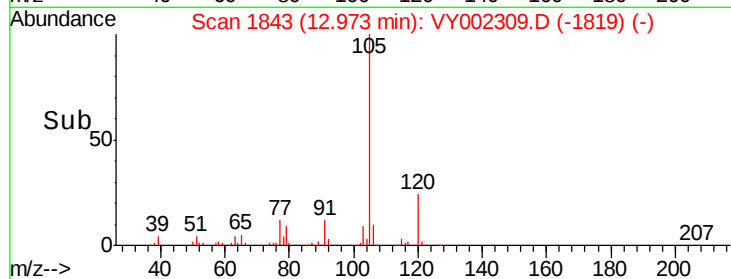
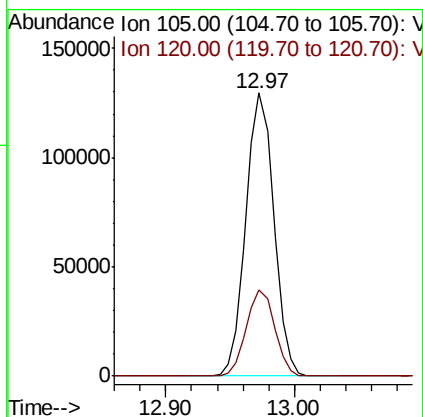
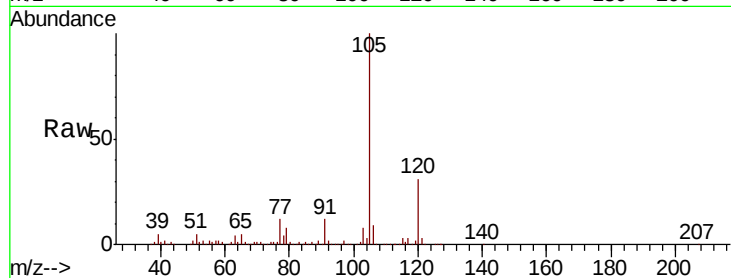




#84
 1,2,4-Trimethylbenzene
 Concen: 37.409 ug/l
 RT: 12.97 min Scan# 1843
 Delta R.T. -0.15 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

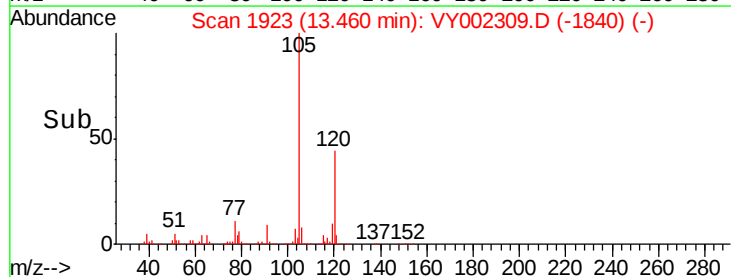
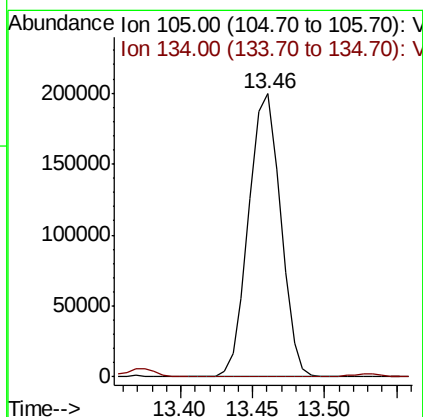
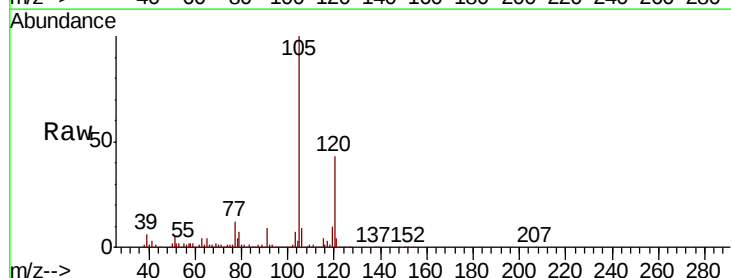
Instrument :
 MSVOA_Y
 ClientSampled :

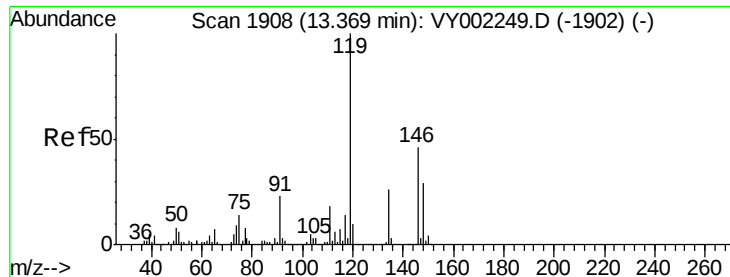
Tot Ion:105 Resp: 194242
 Ion Ratio Lower Upper
 105 100
 120 31.0 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 47.333 ug/l
 RT: 13.46 min Scan# 1923
 Delta R.T. 0.21 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Tgt Ion:105 Resp: 307111
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.3#

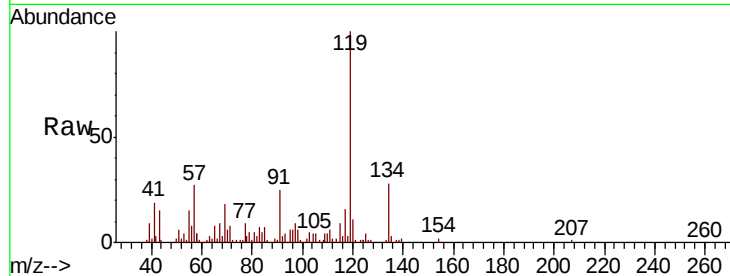




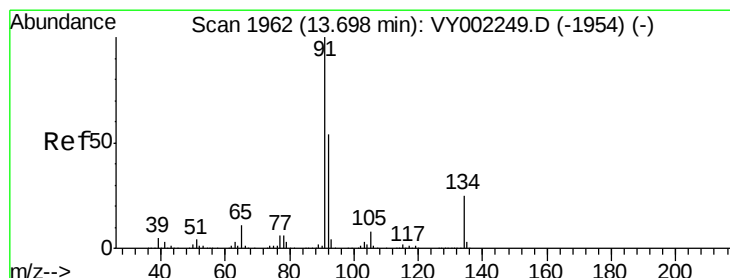
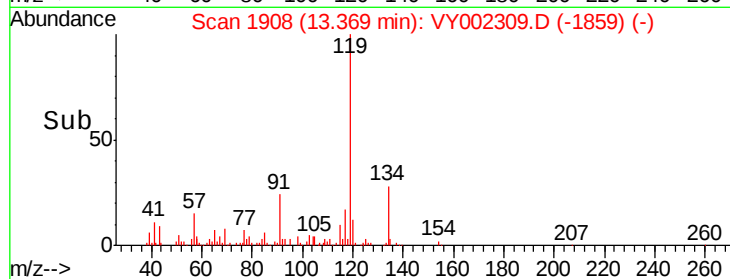
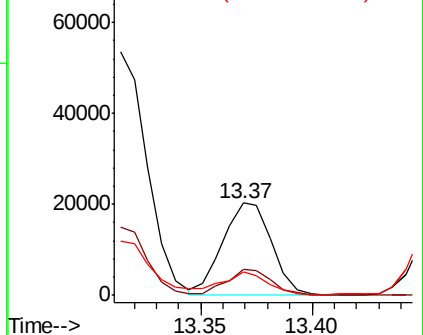
#86
 p-Isopropyltoluene
 Concen: 5.541 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.00 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:119 Resp: 30945
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.3 39.9
 91 23.1 11.5 34.4

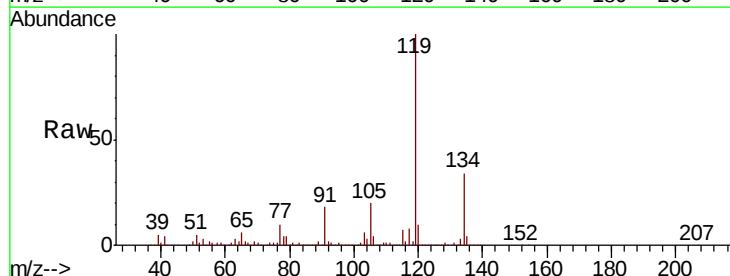


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

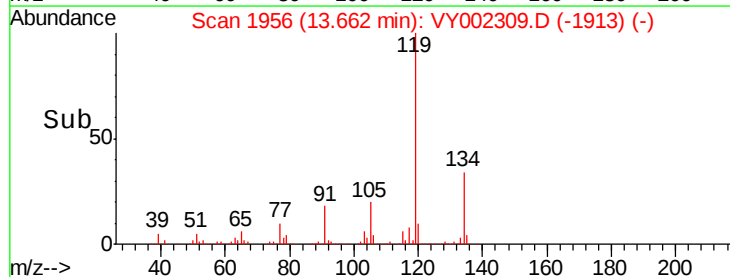
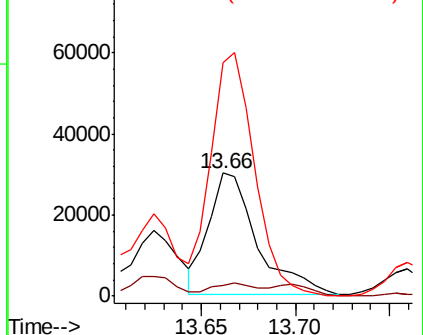


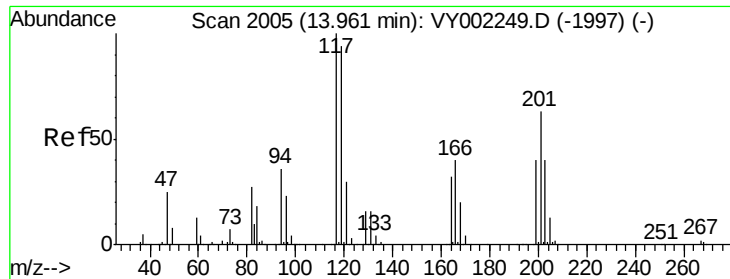
#89
 n-Butylbenzene
 Concen: 9.519 ug/l
 RT: 13.66 min Scan# 1956
 Delta R.T. -0.04 min
 Lab File: VY002309.D
 Acq: 14 Apr 2020 15:26

Tgt Ion: 91 Resp: 54489
 Ion Ratio Lower Upper
 91 100
 92 8.7 27.2 81.6#
 134 177.3 12.7 38.0#



Abundance Ion 91.00 (90.70 to 91.70): VY0
 Ion 92.00 (91.70 to 92.70): VY0
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 18.622 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

Instrument :

MSVOA_Y

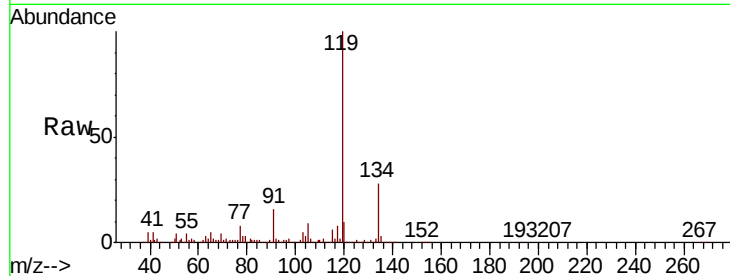
ClientSampleId :

Tot Ion:117 Resp: 19816

Ion Ratio Lower Upper

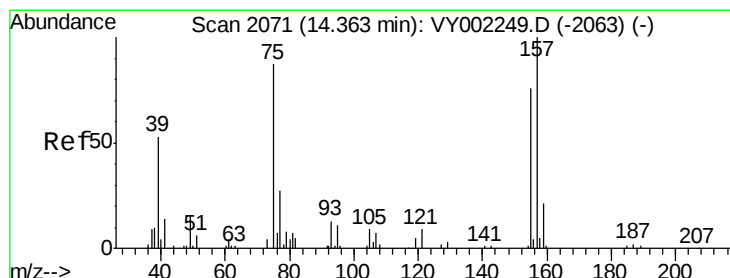
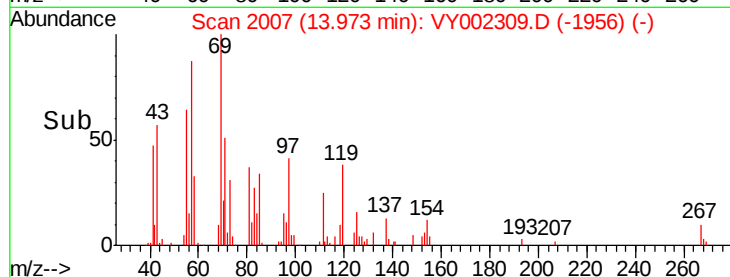
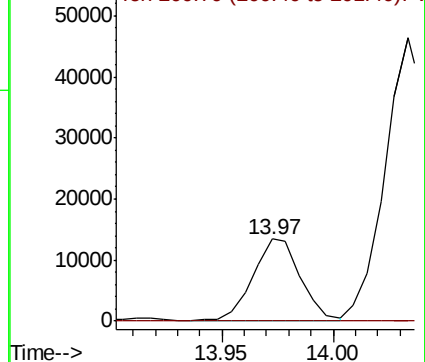
117 100

201 0.0 33.1 99.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.500 ug/l

RT: 14.39 min Scan# 2075

Delta R.T. 0.02 min

Lab File: VY002309.D

Acq: 14 Apr 2020 15:26

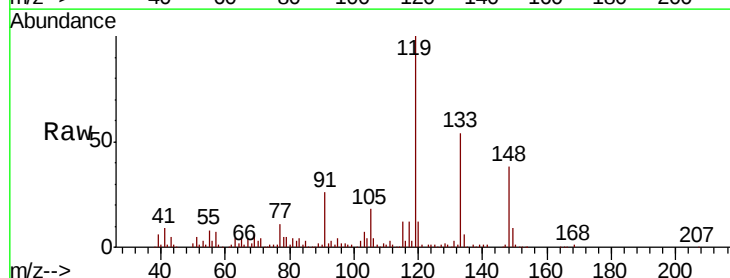
Tgt Ion: 75 Resp: 644

Ion Ratio Lower Upper

75 100

155 0.0 43.6 130.8#

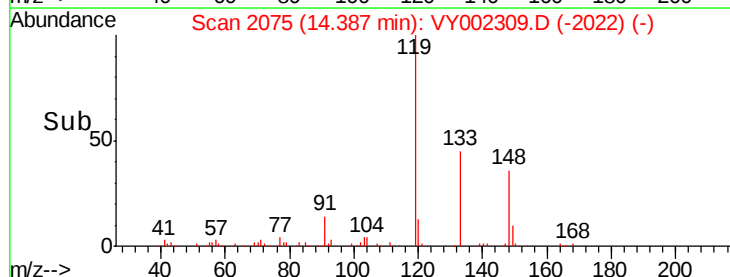
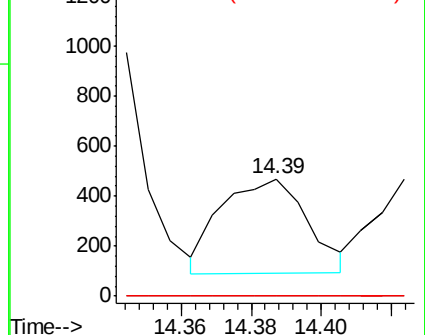
157 0.0 56.0 168.2#

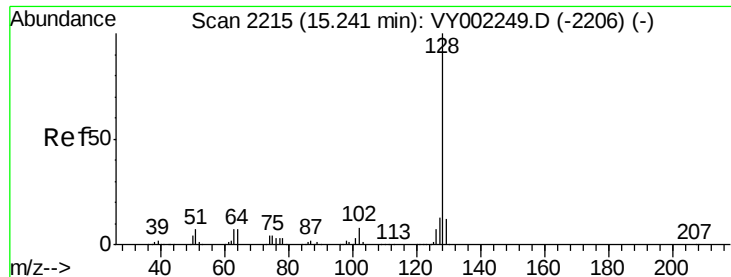


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 2.033 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.00 min
Lab File: VY002309.D
Acq: 14 Apr 2020 15:26

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:128 Resp: 7088
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.7 13.1#

