

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070720\
 Data File : VY003126.D
 Acq On : 07 Jul 2020 15:02
 Operator : SY/MD
 Sample : L3208-02RE
 Misc : 6.34G/5ML/MSVOA Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-4743

Quant Time: Jul 08 03:51:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y062920S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 30 04:11:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	264923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	424588	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	395141	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	174344	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.14	65	143603	54.58	ug/l	0.00
Spiked Amount			Recovery	=	109.16%	
35) Dibromofluoromethane	7.72	113	120533	45.51	ug/l	0.00
Spiked Amount			Recovery	=	91.02%	
50) Toluene-d8	10.18	98	509306	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
62) 4-Bromofluorobenzene	12.48	95	171164	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	

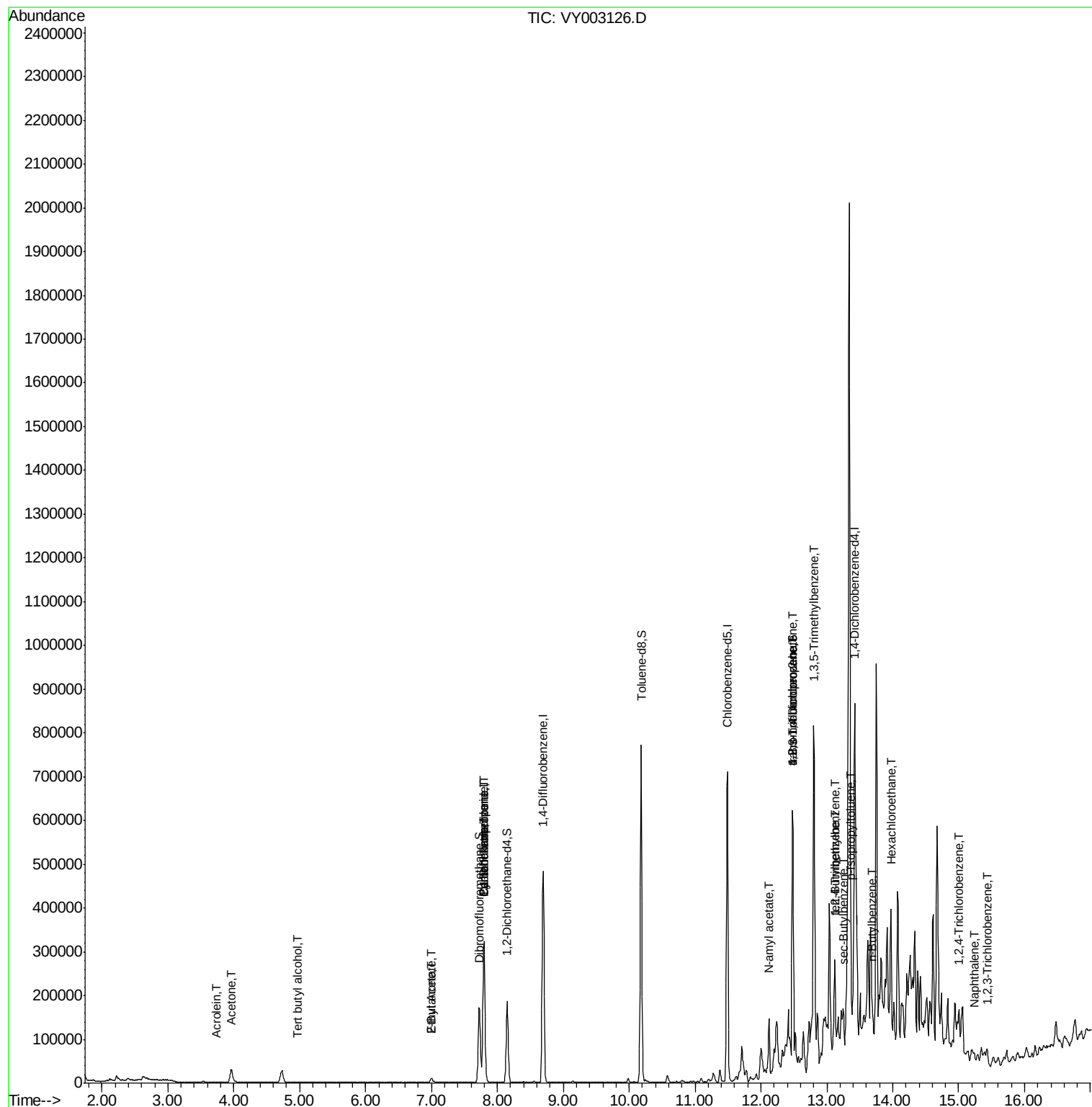
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.97	59	1543	5.754	ug/l #	77
13) Acrolein	3.74	56	427	1.773	ug/l	92
16) Acetone	3.96	43	53249	85.807	ug/l	99
25) 2-Butanone	6.99	43	16587	16.826	ug/l #	79
31) Cyclohexane	7.80	56	4785	1.034	ug/l #	7
36) 1,1-Dichloropropene	7.80	75	18367	4.491	ug/l #	51
37) Ethyl Acetate	6.99	43	16587	6.745	ug/l #	70
38) Carbon Tetrachloride	7.80	117	24273	5.704	ug/l #	16
74) N-amyl acetate	12.12	43	30351	8.171	ug/l #	66
76) 1,2,3-Trichloropropane	12.48	75	87903	50.944	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.81	105	59525	6.217	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.48	75	87903	99.116	ug/l #	13
83) tert-Butylbenzene	13.12	119	12794	1.522	ug/l #	69
84) 1,2,4-Trimethylbenzene	13.12	105	102823	10.657	ug/l	100
85) sec-Butylbenzene	13.25	105	21532	1.858	ug/l	87
86) p-Isopropyltoluene	13.37	119	30997	2.887	ug/l #	75
89) n-Butylbenzene	13.69	91	30179	2.937	ug/l #	76
90) Hexachloroethane	13.97	117	12274	5.756	ug/l #	4
93) 1,2,4-Trichlorobenzene	15.01	180	27107	7.444	ug/l #	84
95) Naphthalene	15.23	128	14041	2.111	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.42	180	9452	2.989	ug/l #	74

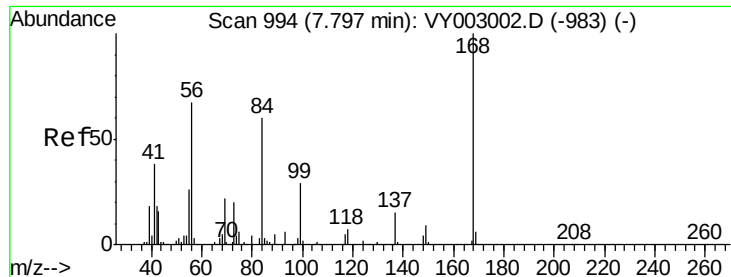
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 30 04:11:35 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

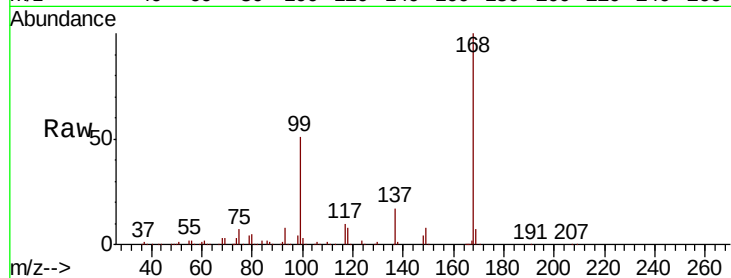
RT-4743

Tot Ion:168 Resp: 264923

Ion Ratio Lower Upper

168 100

99 50.5 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003126.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003126.D (-945) (-)

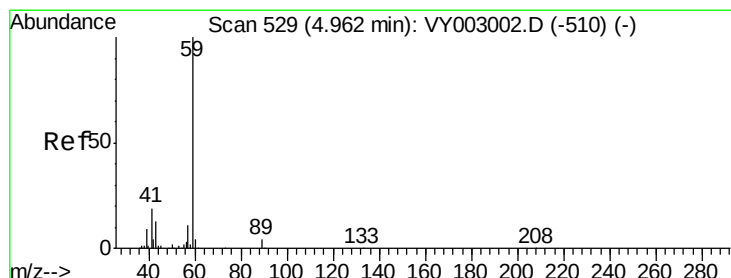
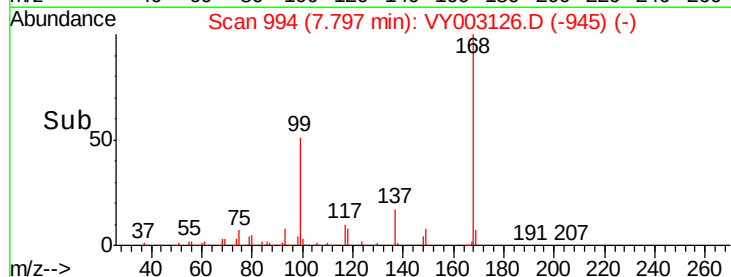
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 5.754 ug/l

RT: 4.97 min Scan# 530

Delta R.T. 0.01 min

Lab File: VY003126.D

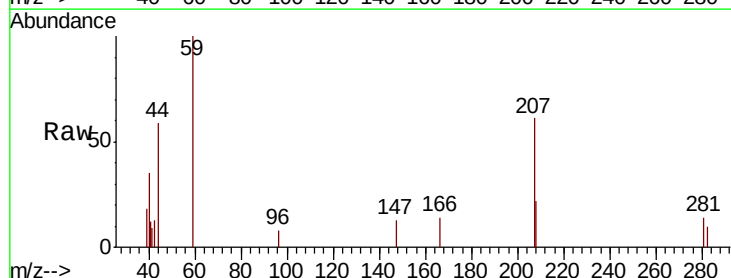
Acq: 07 Jul 2020 15:02

Tgt Ion: 59 Resp: 1543

Ion Ratio Lower Upper

59 100

57 1.4 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY003126.D (-480) (-)

Ion 57.00 (56.70 to 57.70): VY003126.D (-480) (-)

4.97

800

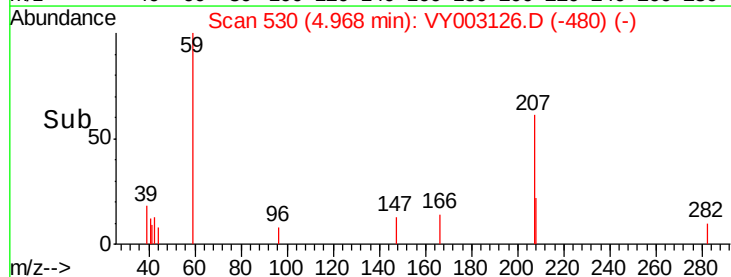
600

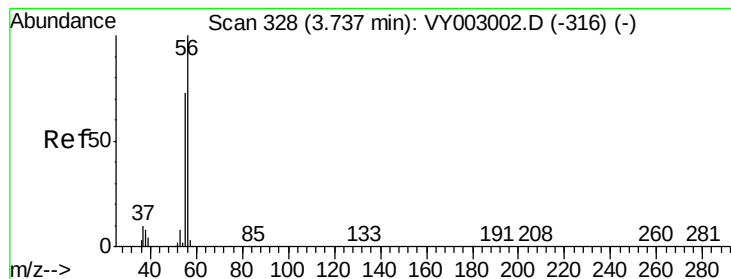
400

200

0

Time-->





#13

Acrolein

Concen: 1.773 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampled :

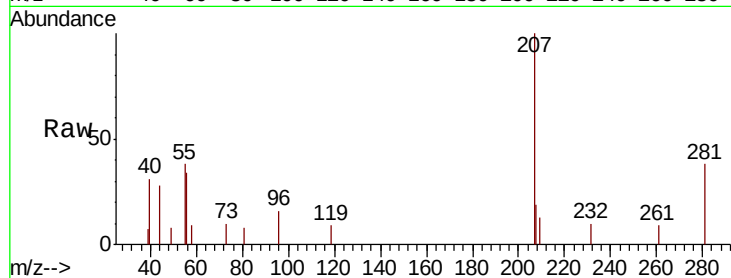
RT-4743

Tot Ion: 56 Resp: 427

Ion Ratio Lower Upper

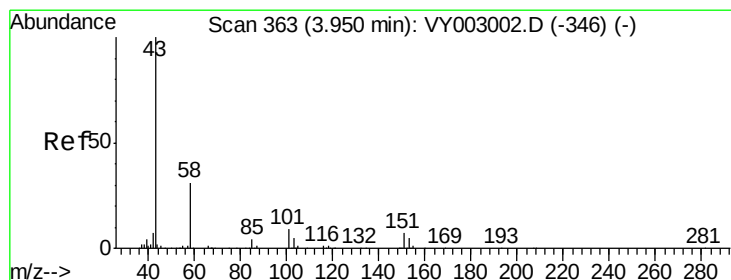
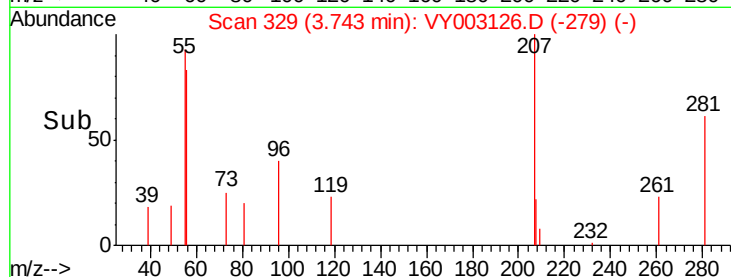
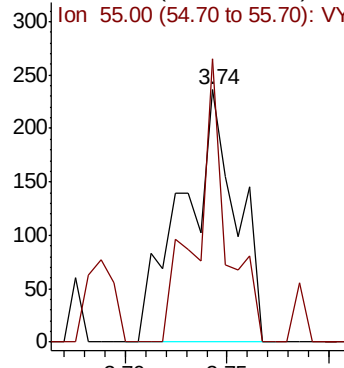
56 100

55 63.9 56.4 84.6



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 85.807 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003126.D

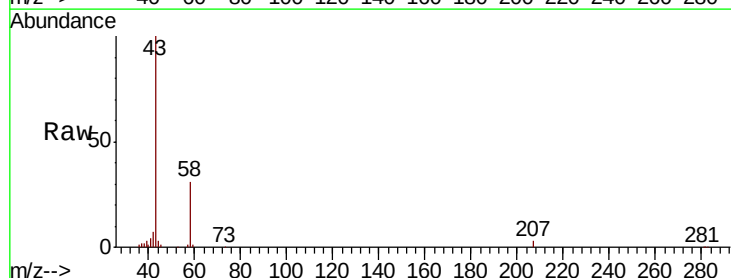
Acq: 07 Jul 2020 15:02

Tgt Ion: 43 Resp: 53249

Ion Ratio Lower Upper

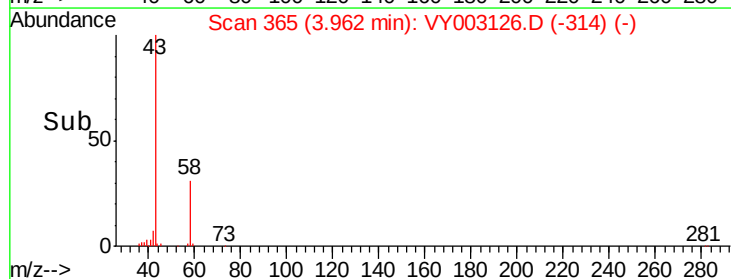
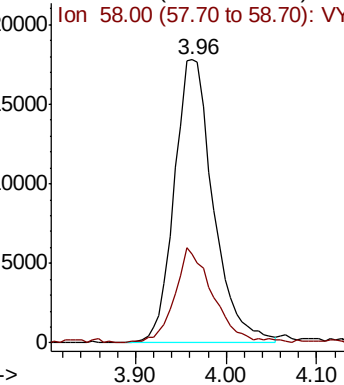
43 100

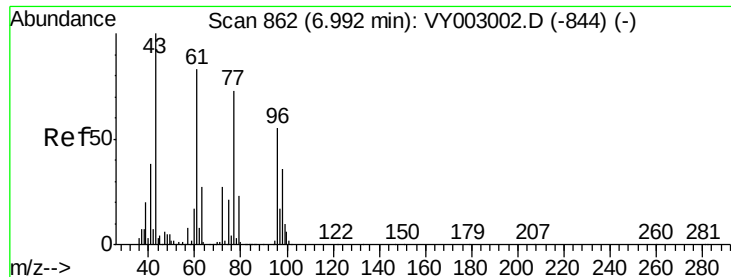
58 31.4 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#25

2-Butanone

Concen: 16.826 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.00 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

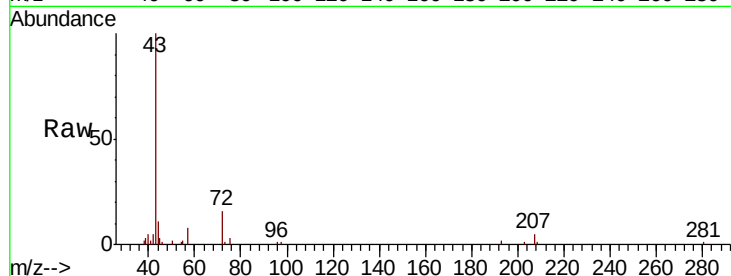
RT-4743

Tot Ion: 43 Resp: 16587

Ion Ratio Lower Upper

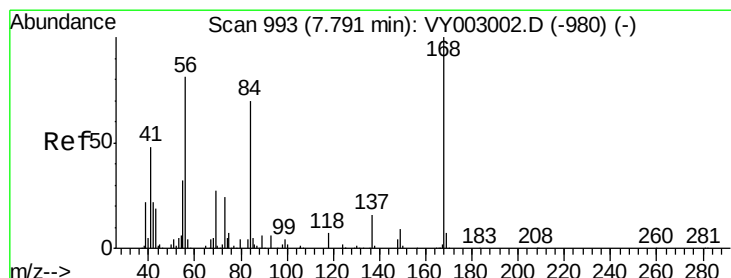
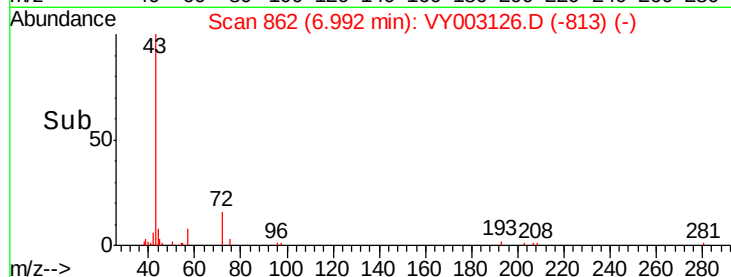
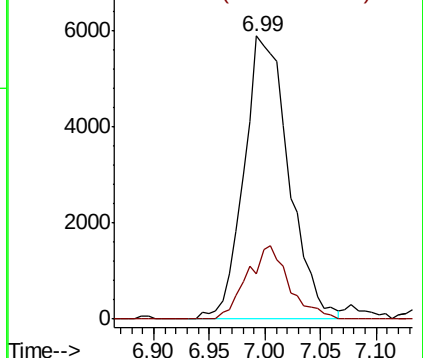
43 100

72 16.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#31

Cyclohexane

Concen: 1.034 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

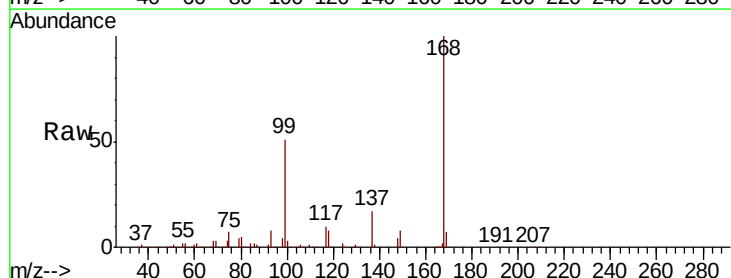
Tgt Ion: 56 Resp: 4785

Ion Ratio Lower Upper

56 100

69 140.7 27.0 40.4#

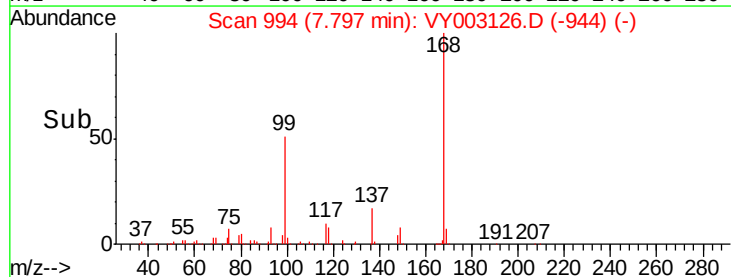
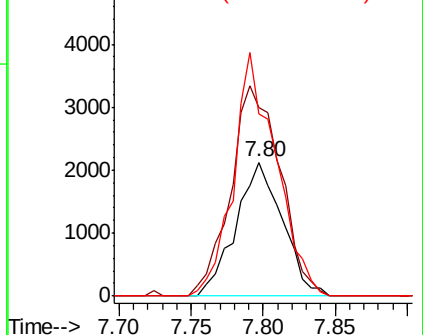
84 135.8 68.1 102.1#

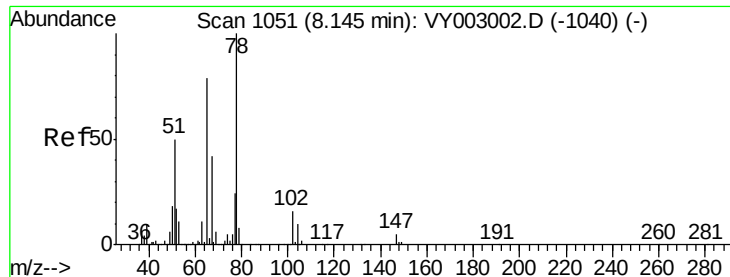


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0

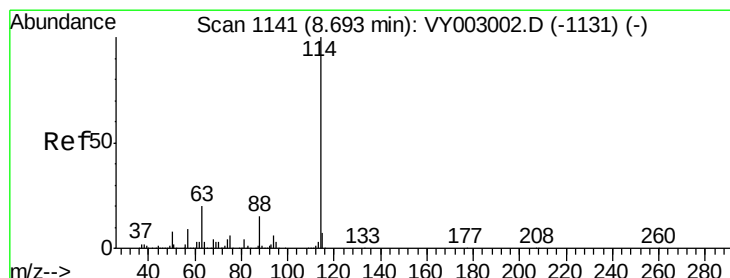
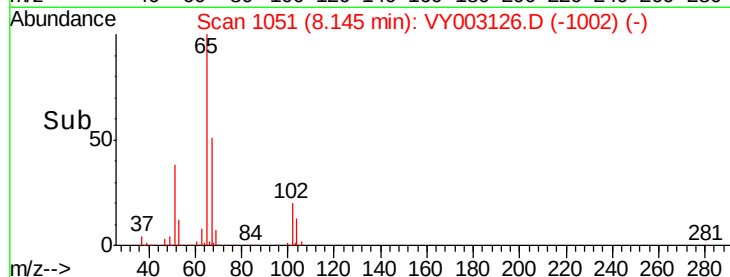
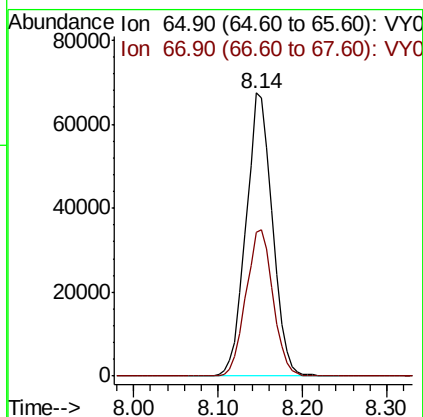
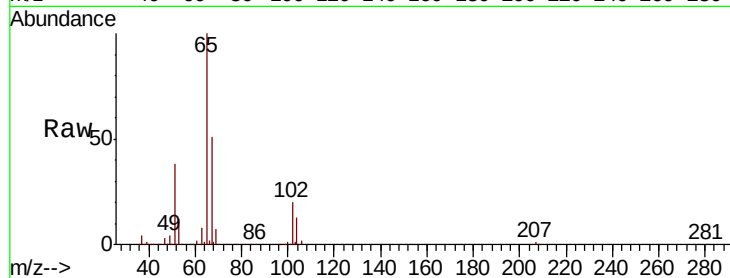




#33
 1,2-Dichloroethane-d4
 Concen: 54.577 ug/l
 RT: 8.14 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

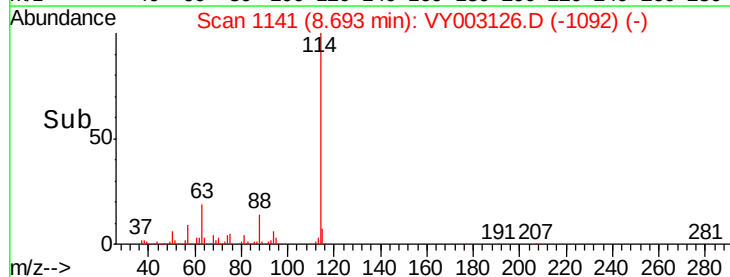
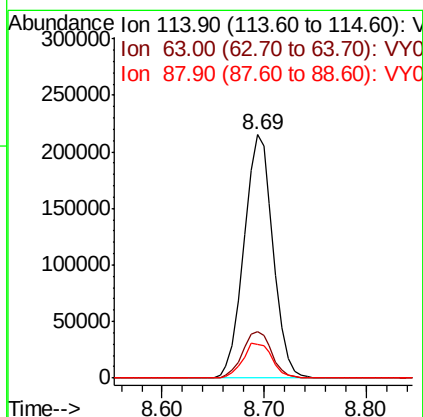
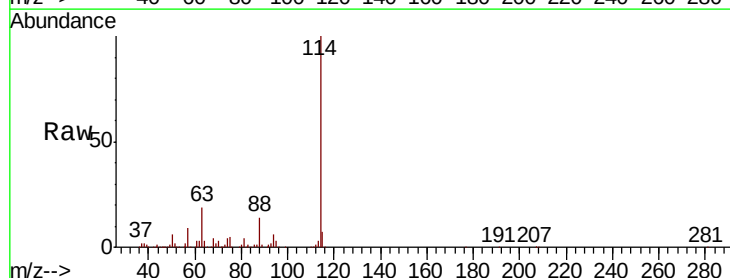
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-4743

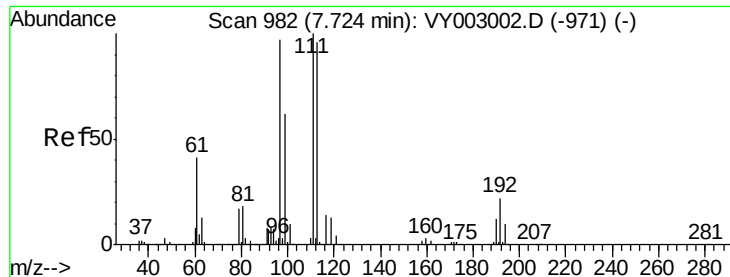
Tot Ion: 65 Resp: 143603
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

Tgt Ion: 114 Resp: 424588
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.6
 88 14.0 0.0 30.0

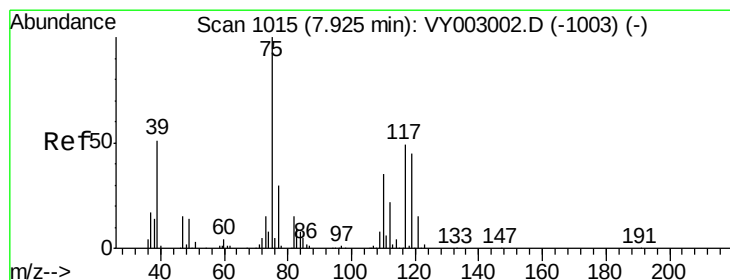
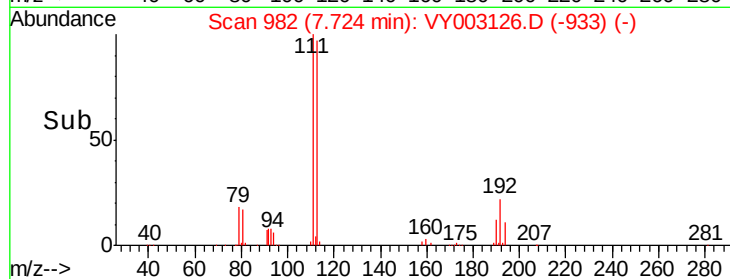
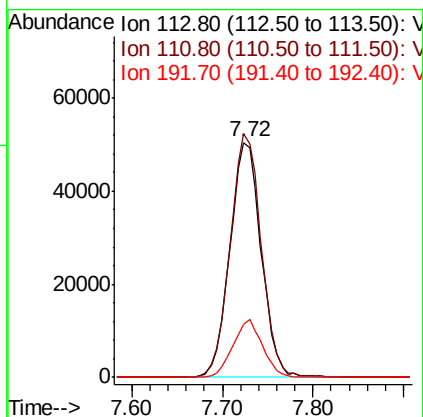
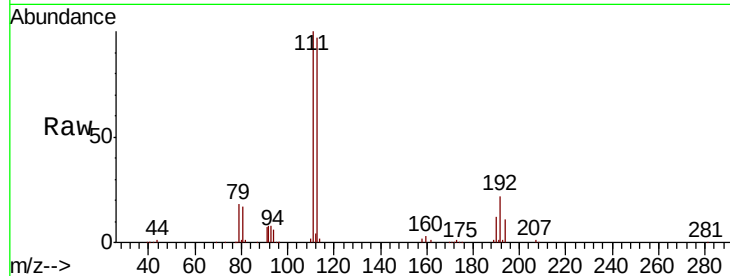




#35
 Dibromofluoromethane
 Concen: 45.507 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

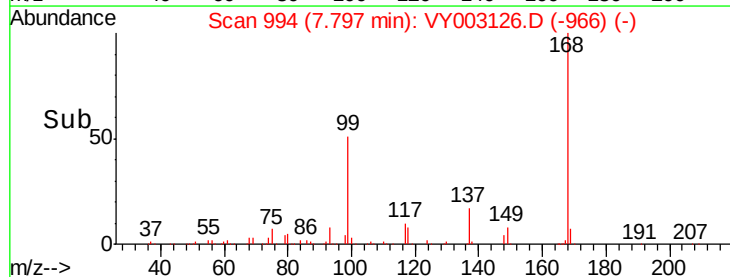
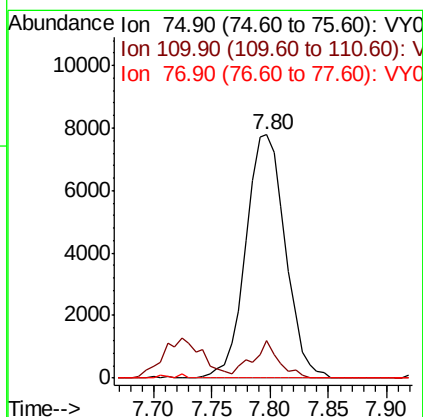
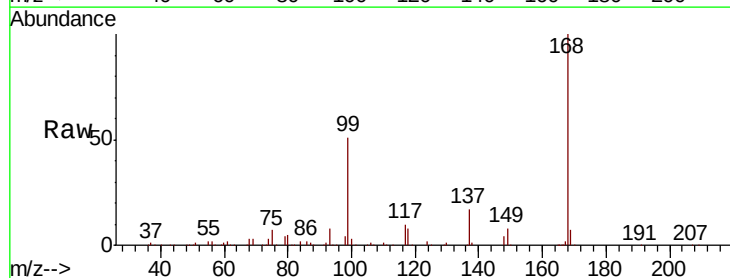
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-4743

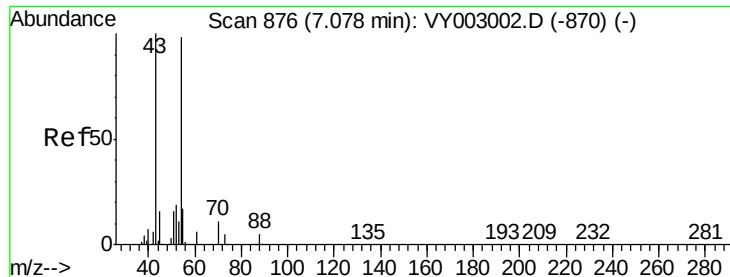
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.6	123.8
192	23.3	18.1	27.1



#36
 1,1-Dichloropropene
 Concen: 4.491 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	17.1	51.2#
77	0.0	24.9	37.3#

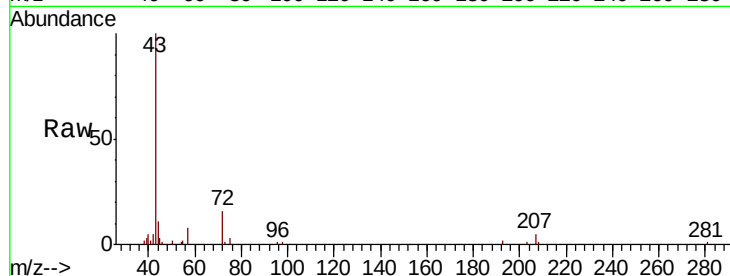




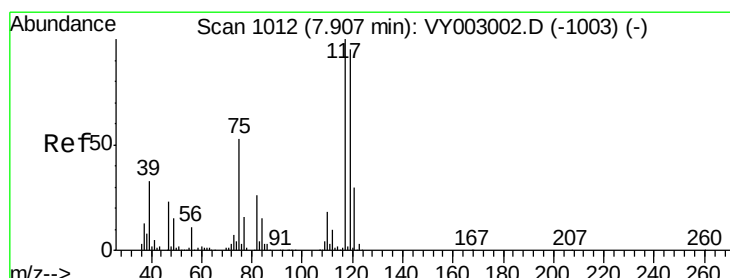
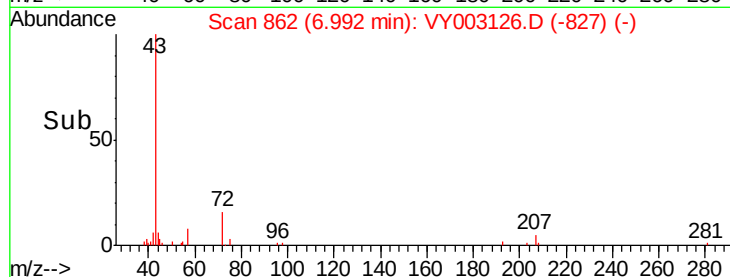
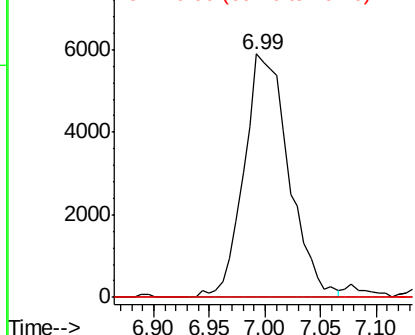
#37
Ethyl Acetate
Concen: 6.745 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.09 min
Lab File: VY003126.D
Acq: 07 Jul 2020 15:02

Instrument :
MSVOA_Y
ClientSampleId :
RT-4743

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.4	15.6#
70	0.0	7.7	11.5#

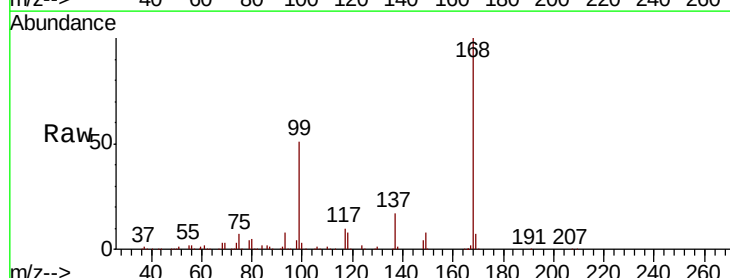


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

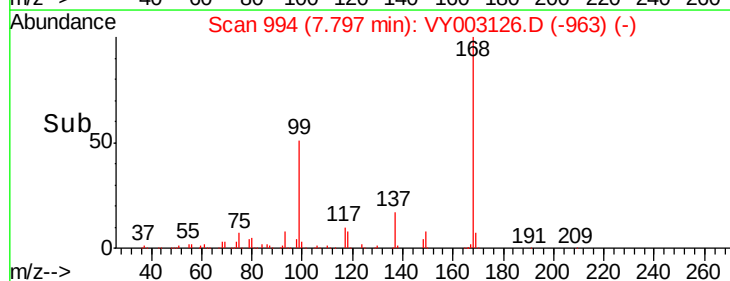
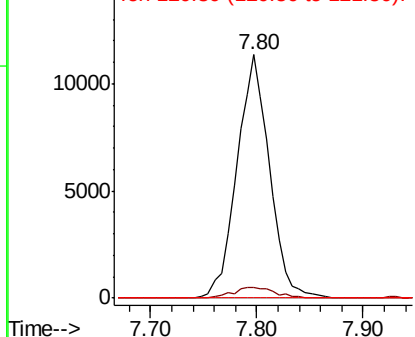


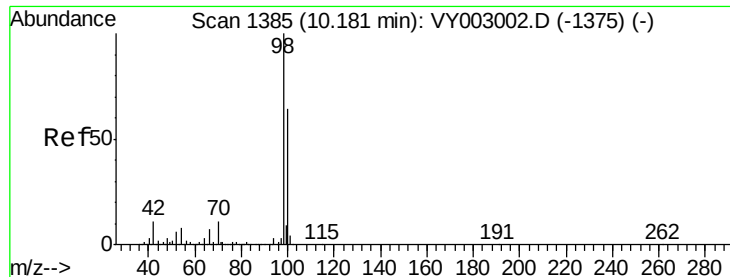
#38
Carbon Tetrachloride
Concen: 5.704 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.11 min
Lab File: VY003126.D
Acq: 07 Jul 2020 15:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.7	113.5#
121	0.0	23.9	35.9#



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





#50

Toluene-d8

Concen: 51.615 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

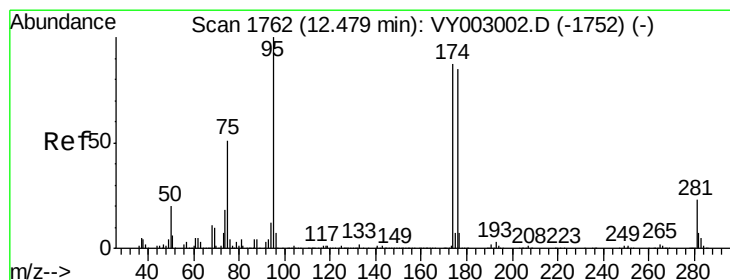
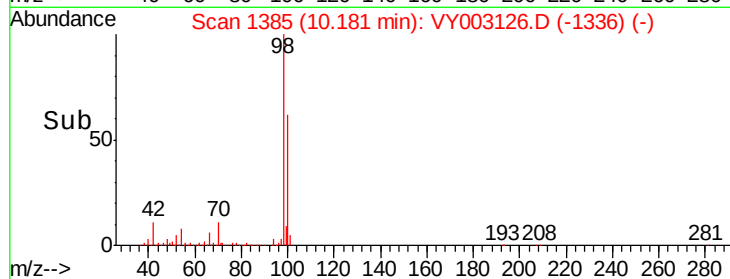
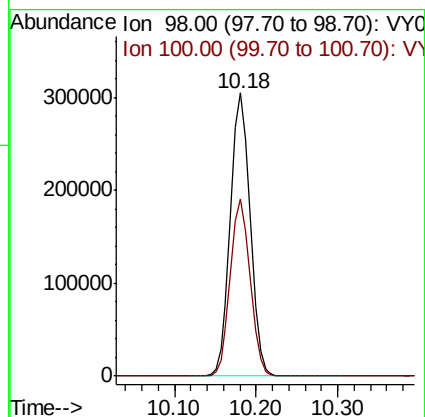
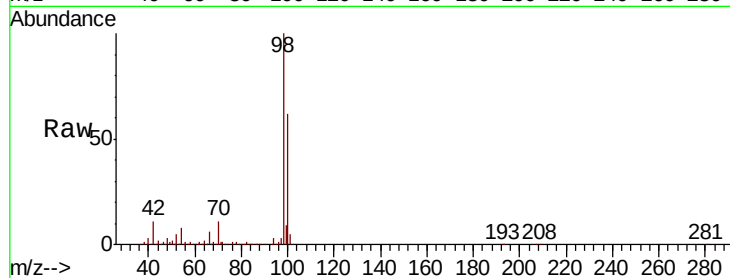
RT-4743

Tot Ion: 98 Resp: 509306

Ion Ratio Lower Upper

98 100

100 62.8 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 49.279 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

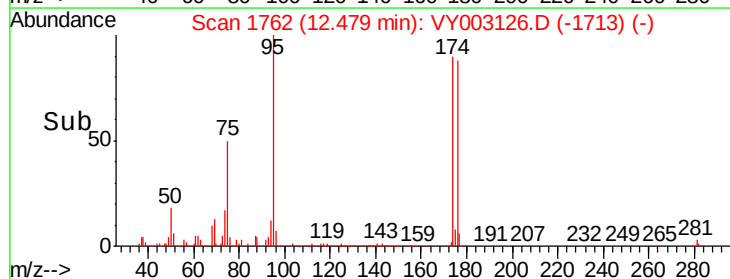
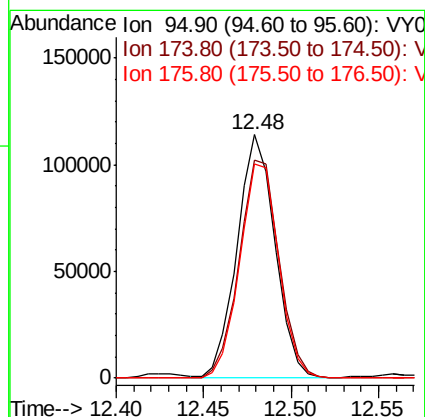
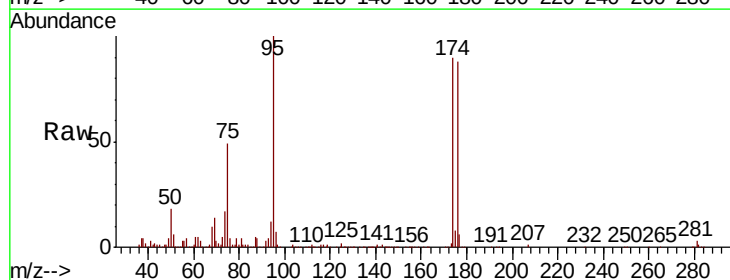
Tgt Ion: 95 Resp: 171164

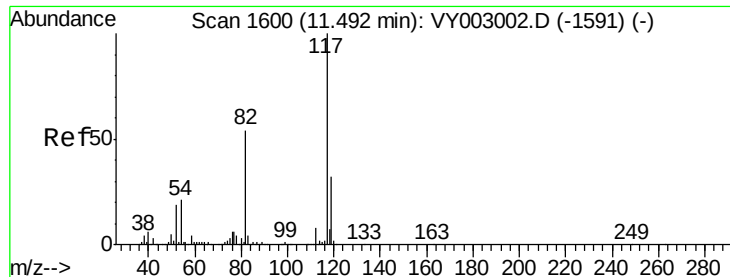
Ion Ratio Lower Upper

95 100

174 94.9 0.0 184.8

176 91.0 0.0 183.0

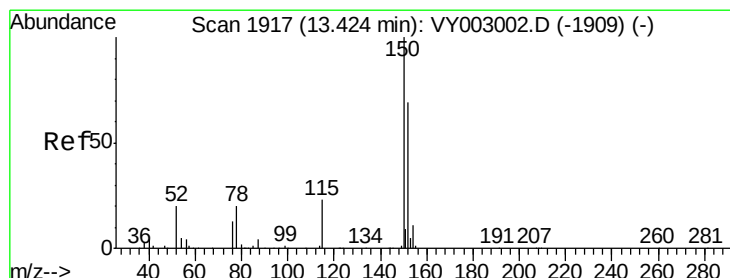
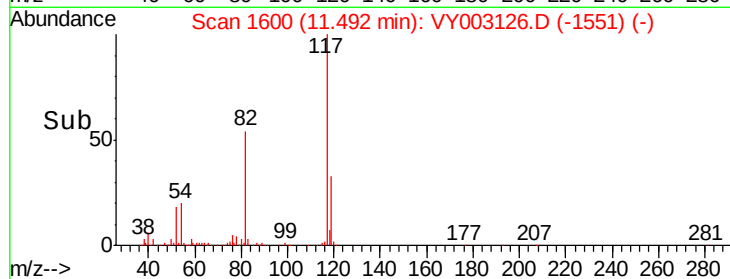
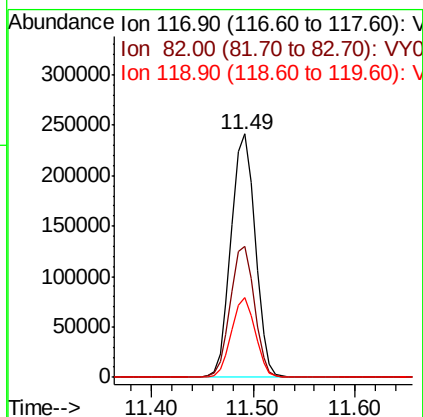
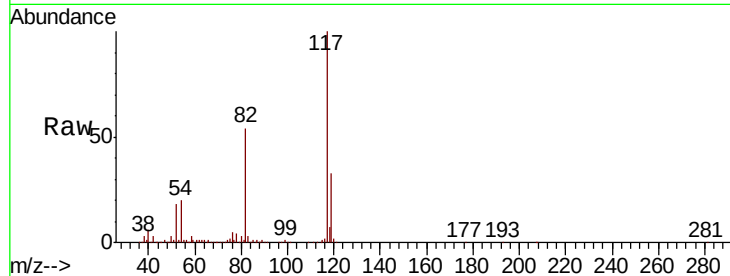




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003126.D
Acq: 07 Jul 2020 15:02

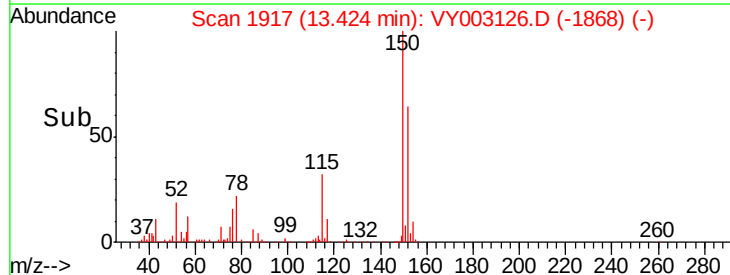
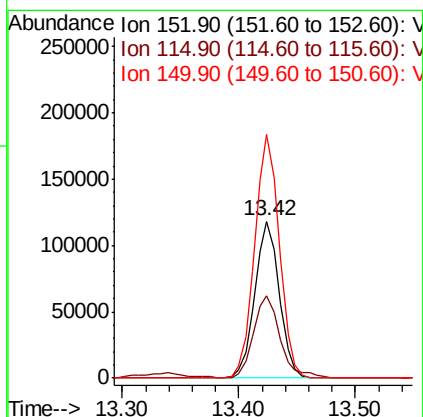
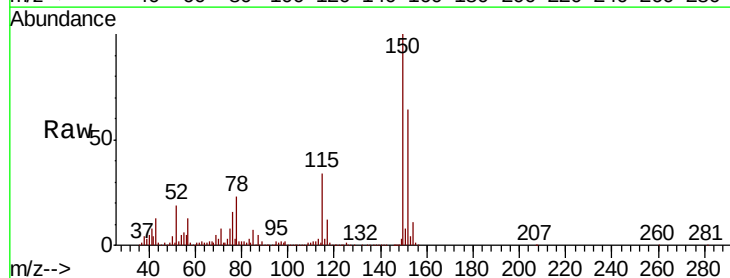
Instrument :
MSVOA_Y
ClientSampleId :
RT-4743

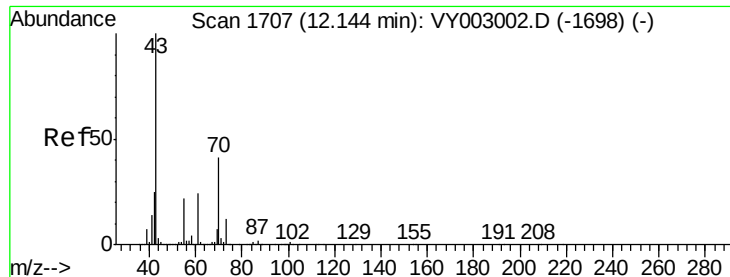
Tot Ion:117 Resp: 395141
Ion Ratio Lower Upper
117 100
82 53.6 43.0 64.6
119 33.0 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003126.D
Acq: 07 Jul 2020 15:02

Tgt Ion:152 Resp: 174344
Ion Ratio Lower Upper
152 100
115 57.2 27.3 81.9
150 155.6 0.0 343.4





#74

N-amvl acetate

Concen: 8.171 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.02 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

RT-4743

Tot Ion: 43 Resp: 30351

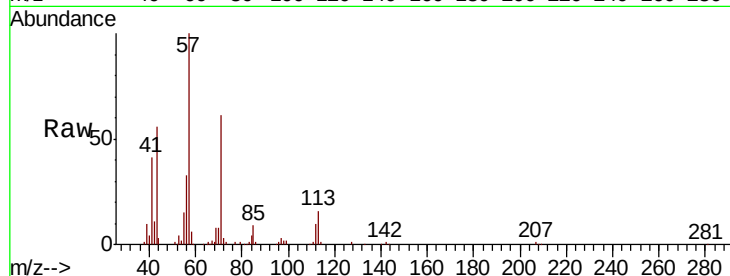
Ion Ratio Lower Upper

43 100

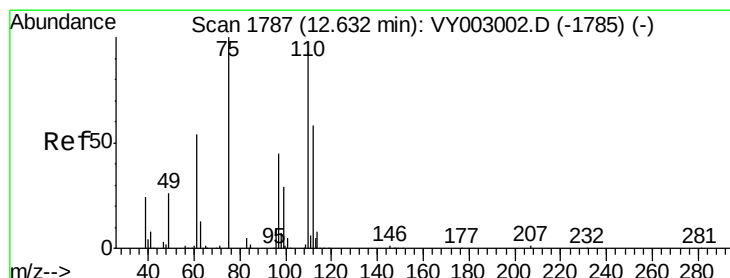
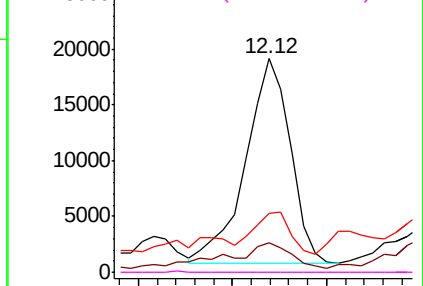
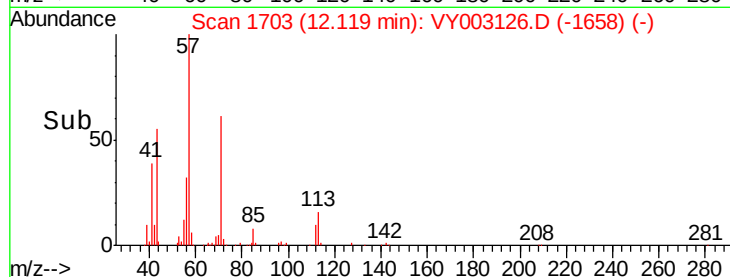
70 18.8 33.0 49.4#

55 16.2 18.2 27.2#

61 0.0 19.4 29.2#



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: 50.944 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003126.D

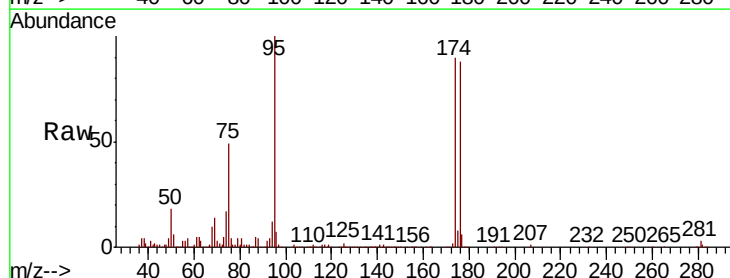
Acq: 07 Jul 2020 15:02

Tgt Ion: 75 Resp: 87903

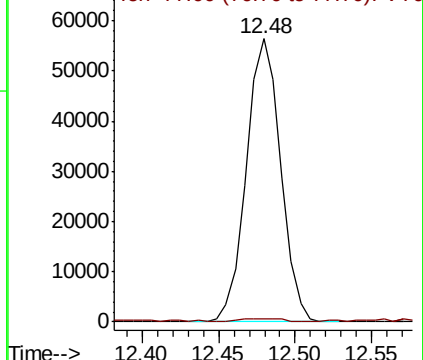
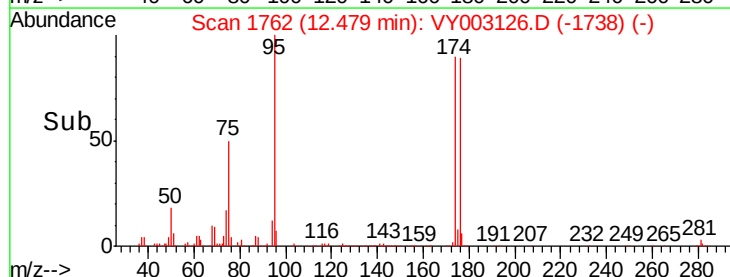
Ion Ratio Lower Upper

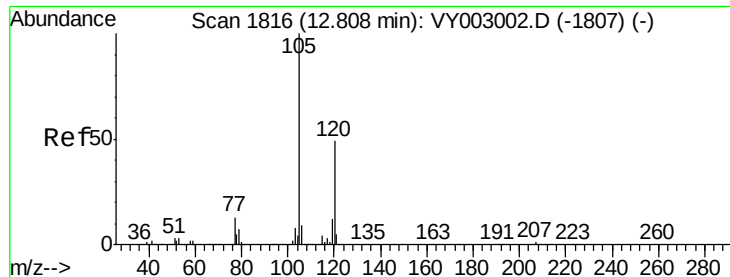
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 77.00 (76.70 to 77.70): VY0





#80

1,3,5-Trimethylbenzene

Concen: 6.217 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

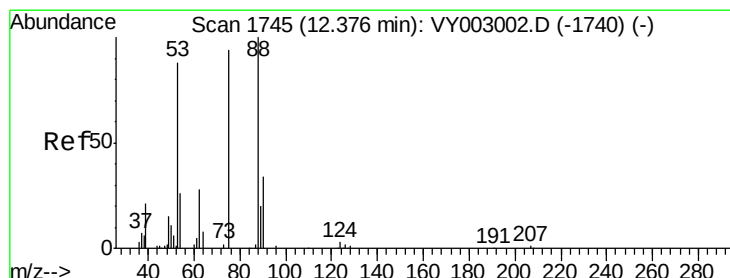
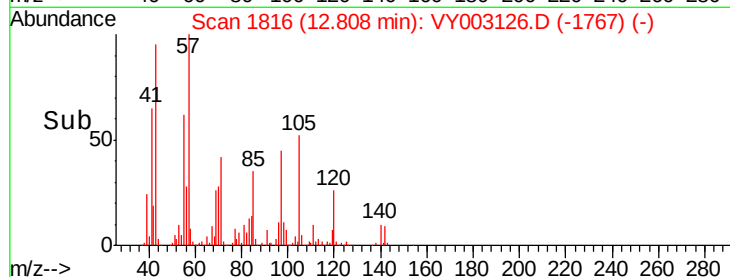
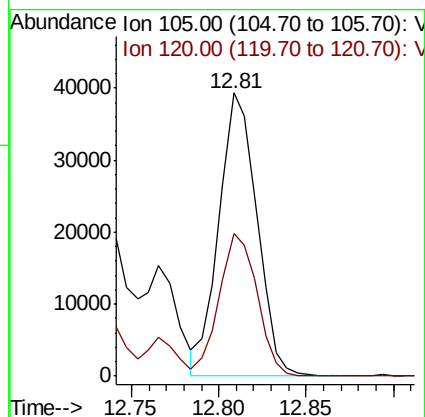
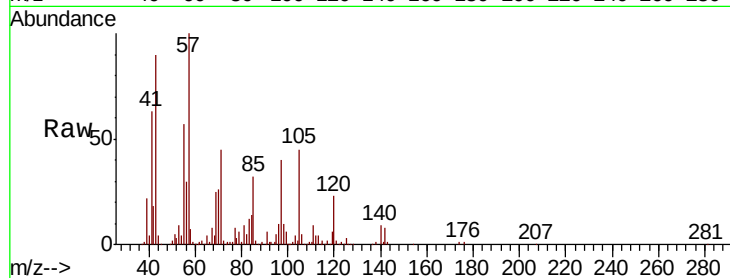
RT-4743

Tot Ion:105 Resp: 59525

Ion Ratio Lower Upper

105 100

120 50.3 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 99.116 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

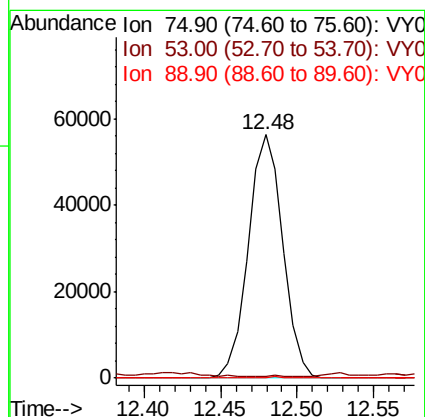
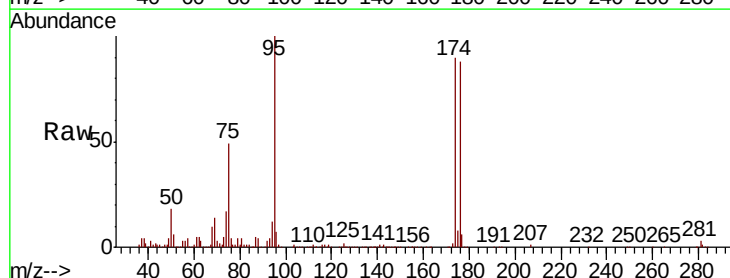
Tgt Ion: 75 Resp: 87903

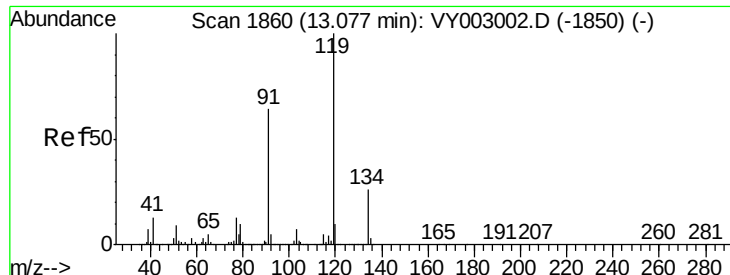
Ion Ratio Lower Upper

75 100

53 0.6 73.9 110.9#

89 0.2 37.5 56.3#





#83

tert-Butylbenzene

Concen: 1.522 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.04 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

RT-4743

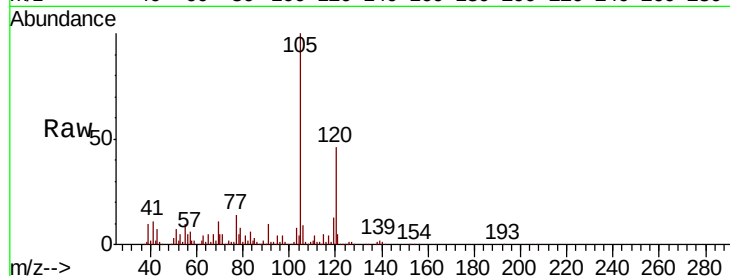
Tot Ion:119 Resp: 12794

Ion Ratio Lower Upper

119 100

91 80.7 31.6 95.0

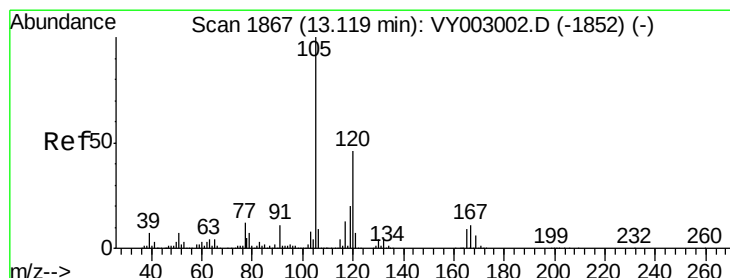
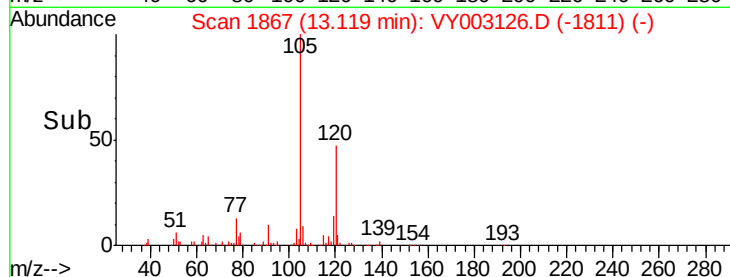
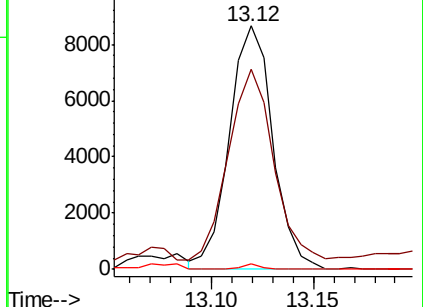
134 0.0 13.2 39.5#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 10.657 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003126.D

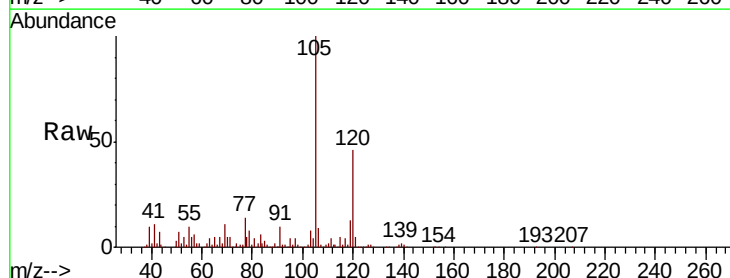
Acq: 07 Jul 2020 15:02

Tgt Ion:105 Resp: 102823

Ion Ratio Lower Upper

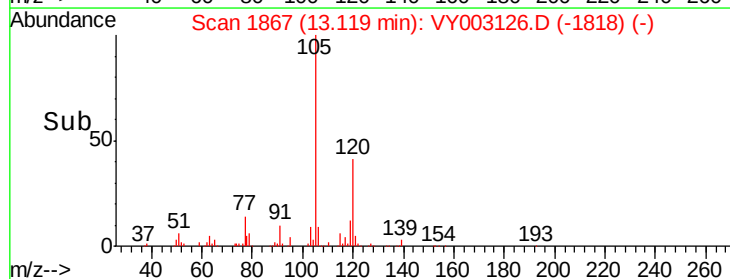
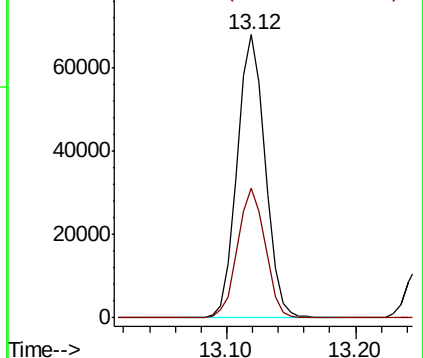
105 100

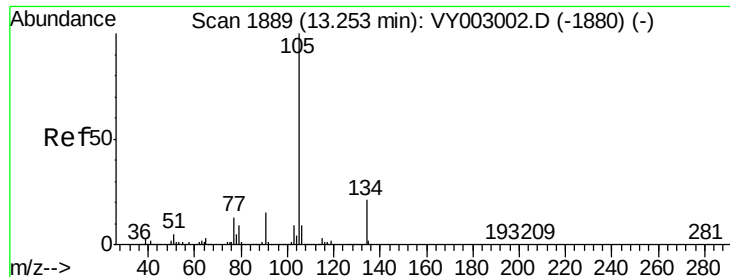
120 45.2 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

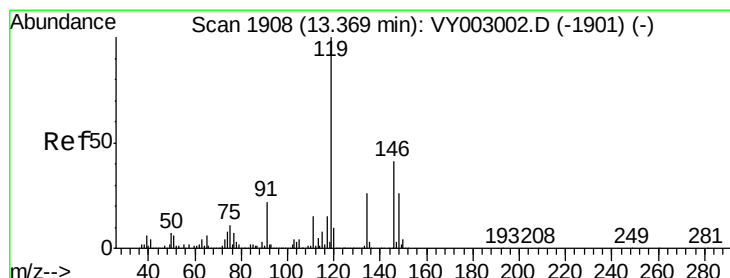
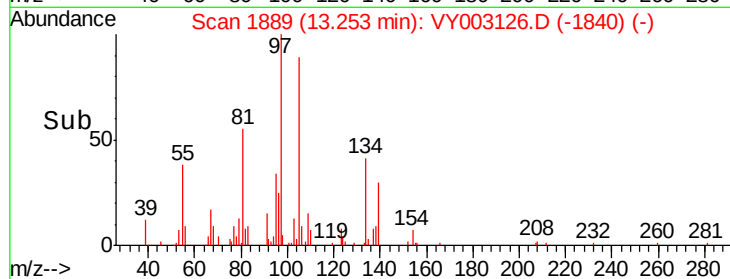
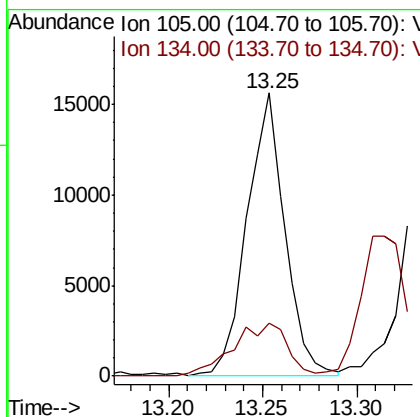
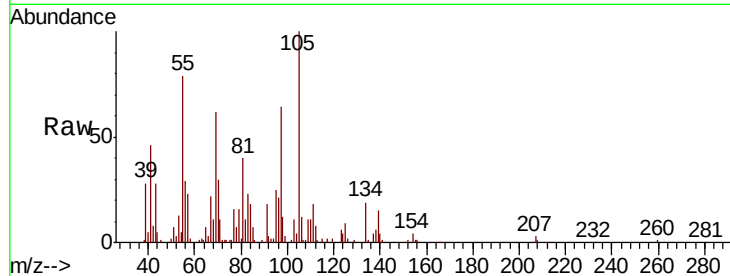




#85
 sec-Butylbenzene
 Concen: 1.858 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

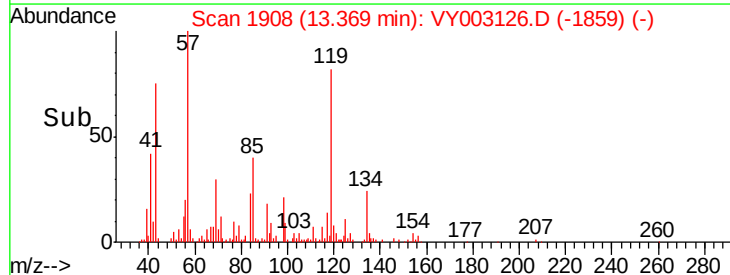
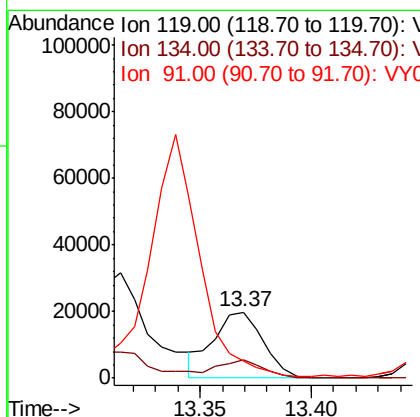
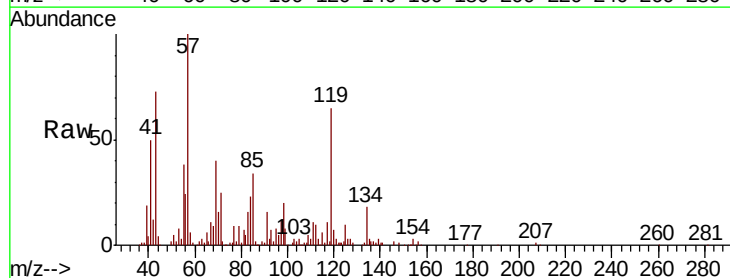
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-4743

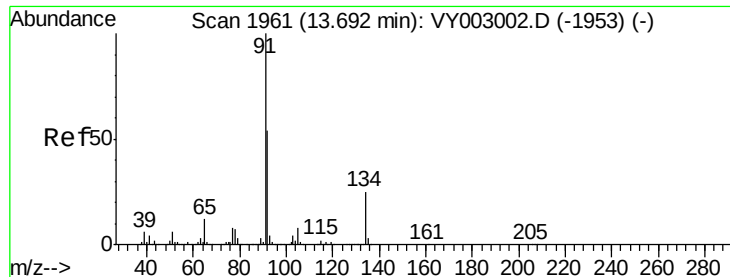
Tot Ion:105 Resp: 21532
 Ion Ratio Lower Upper
 105 100
 134 27.1 10.4 31.2



#86
 p-Isopropyltoluene
 Concen: 2.887 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

Tgt Ion:119 Resp: 30997
 Ion Ratio Lower Upper
 119 100
 134 23.9 13.5 40.4
 91 0.0 11.5 34.5#

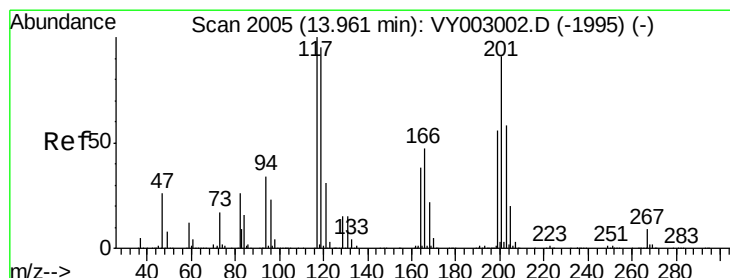
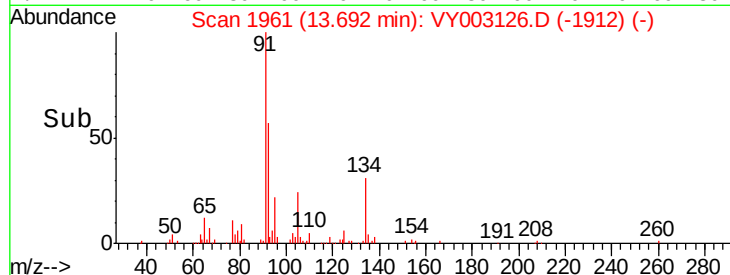
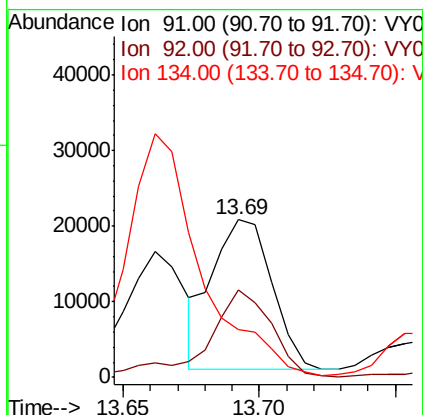
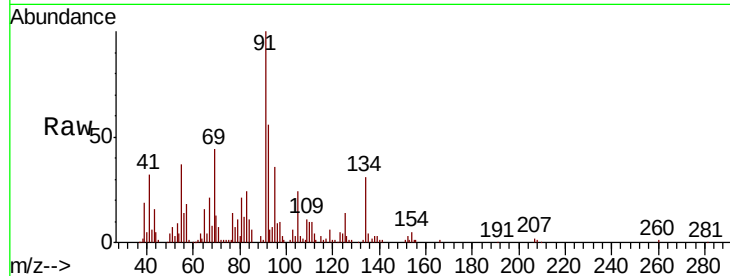




#89
n-Butylbenzene
Concen: 2.937 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.00 min
Lab File: VY003126.D
Acq: 07 Jul 2020 15:02

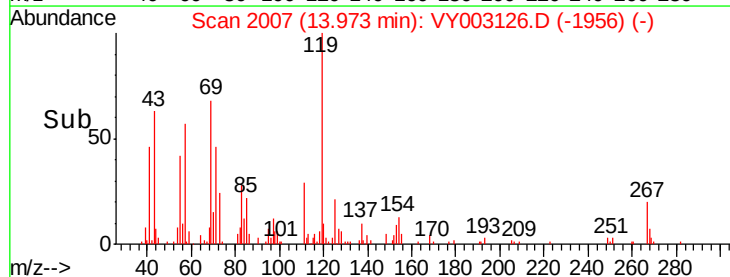
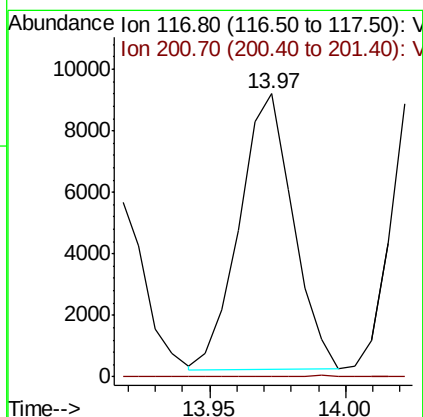
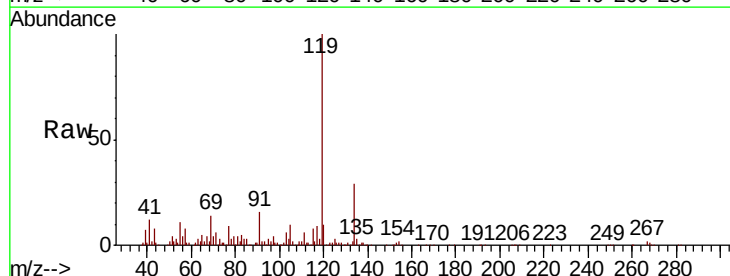
Instrument :
MSVOA_Y
ClientSampleId :
RT-4743

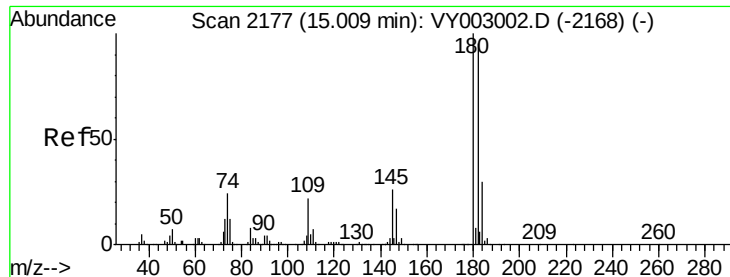
Tot Ion: 91 Resp: 30179
Ion Ratio Lower Upper
91 100
92 61.0 26.8 80.3
134 0.0 13.1 39.1#



#90
Hexachloroethane
Concen: 5.756 ug/l
RT: 13.97 min Scan# 2007
Delta R.T. 0.01 min
Lab File: VY003126.D
Acq: 07 Jul 2020 15:02

Tgt Ion: 117 Resp: 12274
Ion Ratio Lower Upper
117 100
201 0.2 45.5 136.4#

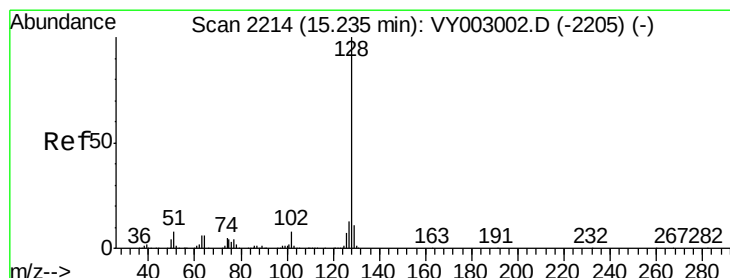
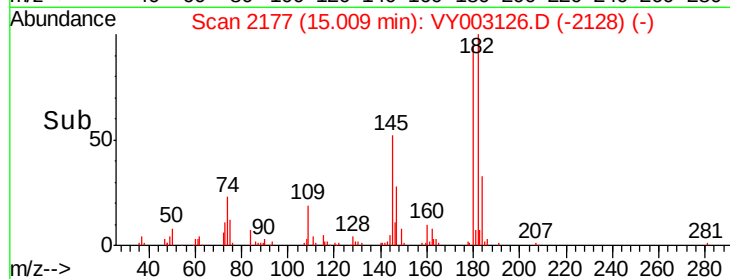
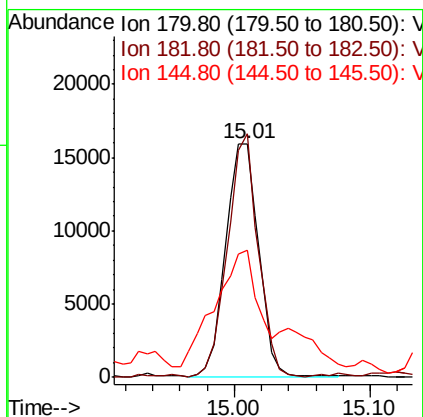
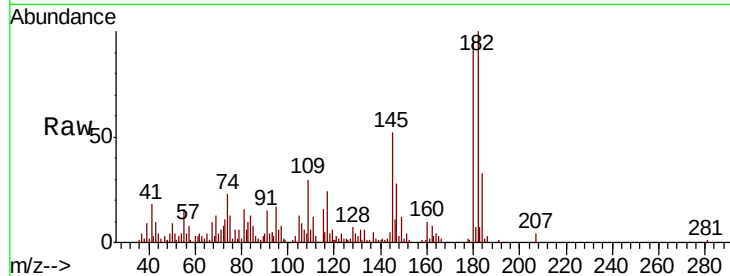




#93
 1,2,4-Trichlorobenzene
 Concen: 7.444 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

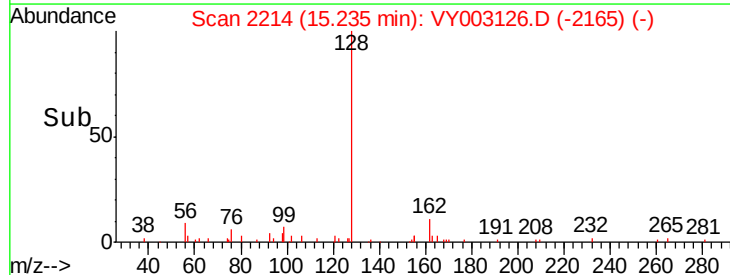
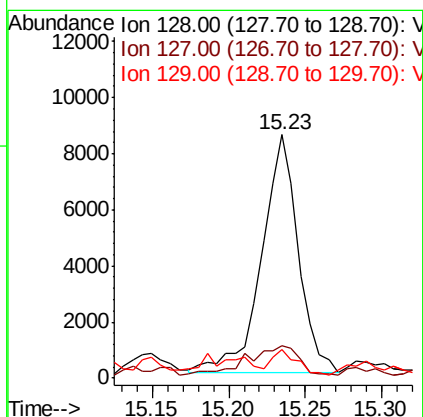
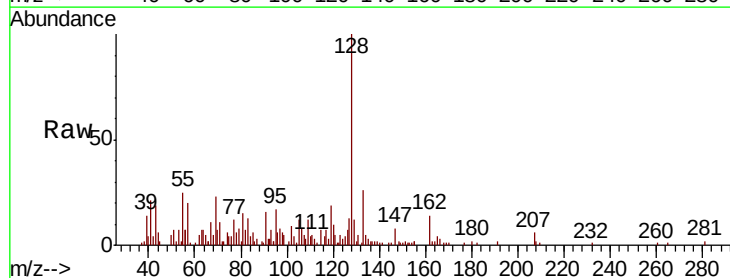
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT-4743

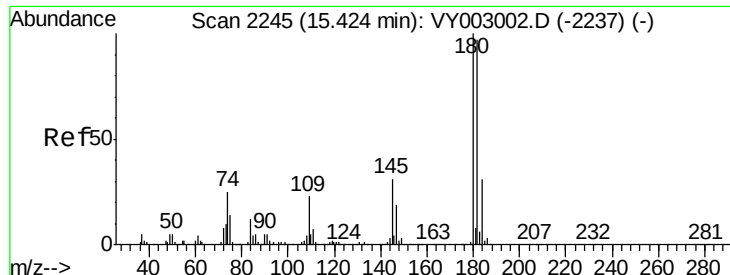
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	48.1	144.3
145	64.3	13.9	41.6#



#95
 Naphthalene
 Concen: 2.111 ug/l
 RT: 15.23 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VY003126.D
 Acq: 07 Jul 2020 15:02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.4	10.8	16.2#
129	7.2	8.8	13.2#





#96

1,2,3-Trichlorobenzene

Concen: 2.989 ug/l

RT: 15.42 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VY003126.D

Acq: 07 Jul 2020 15:02

Instrument :

MSVOA_Y

ClientSampleId :

RT-4743

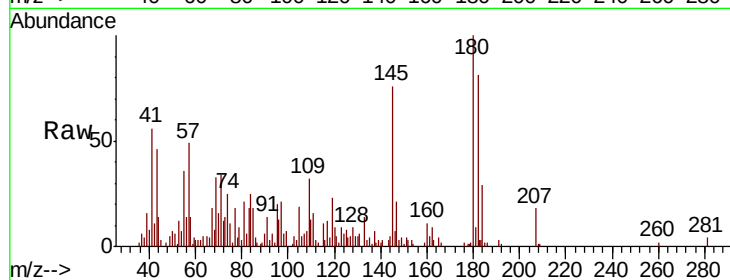
Tot Ion:180 Resp: 9452

Ion Ratio Lower Upper

180 100

182 79.2 47.8 143.3

145 59.9 14.7 44.1#



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

