

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070620\
 Data File : VY003112.D
 Acq On : 06 Jul 2020 14:49
 Operator : SY/MD
 Sample : L3217-03
 Misc : 5.16G/5ML/MSVOA Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 E3-41-COMP-1-FLOOR

Quant Time: Jul 07 07:04:14 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	232211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	379070	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	366476	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	167896	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	141403	61.31	ug/l	0.00
Spiked Amount			Recovery	=	122.62%	
35) Dibromofluoromethane	7.72	113	126694	53.58	ug/l	0.00
Spiked Amount			Recovery	=	107.16%	
50) Toluene-d8	10.18	98	454303	51.57	ug/l	0.00
Spiked Amount			Recovery	=	103.14%	
62) 4-Bromofluorobenzene	12.48	95	159346	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	

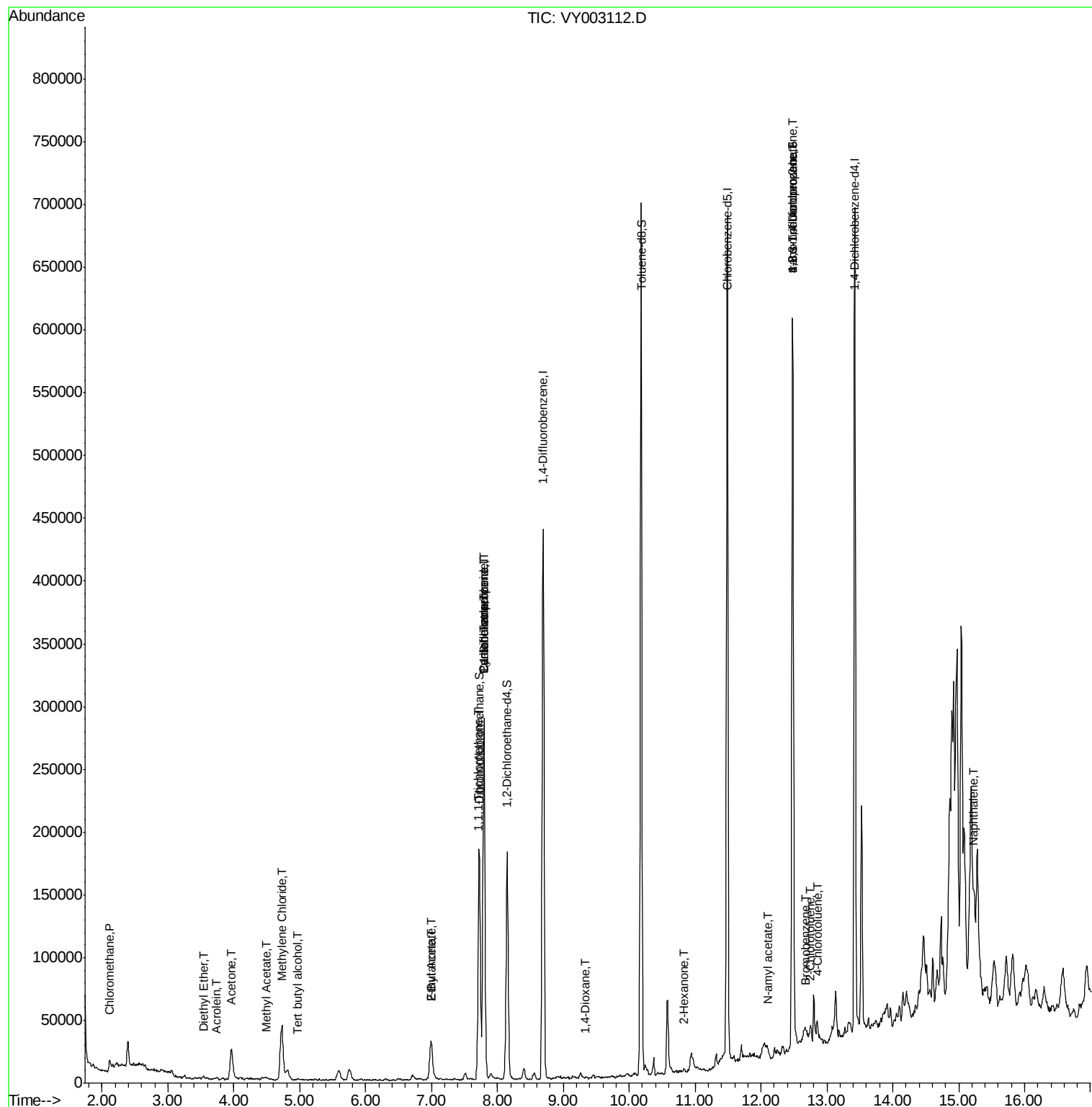
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	5033	1.954	ug/l	99
8) Diethyl Ether	3.53	74	1284	1.056	ug/l	92
11) Tert butyl alcohol	4.97	59	1204	5.123	ug/l #	73
13) Acrolein	3.74	56	1497	7.091	ug/l	98
16) Acetone	3.96	43	48160	88.539	ug/l	93
18) Methyl Acetate	4.50	43	2579	1.760	ug/l	96
20) Methylene Chloride	4.72	84	33366	7.873	ug/l	89
25) 2-Butanone	7.00	43	23115	26.752	ug/l	96
31) Cyclohexane	7.80	56	4536	1.118	ug/l #	1
32) 1,1,1-Trichloroethane	7.71	97	5808	1.560	ug/l	99
36) 1,1-Dichloropropene	7.80	75	16656	4.562	ug/l #	45
37) Ethyl Acetate	7.00	43	23115	10.529	ug/l #	70
38) Carbon Tetrachloride	7.80	117	21649	5.699	ug/l #	17
49) 1,4-Dioxane	9.33	88	44	2.400	ug/l #	62
59) 2-Hexanone	10.83	43	1779	1.180	ug/l	69
74) N-amyl acetate	12.11	43	3992	1.116	ug/l #	44
76) 1,2,3-Trichloropropane	12.48	75	79934	48.105	ug/l #	100
77) Bromobenzene	12.69	156	11174	3.966	ug/l #	1
79) 2-Chlorotoluene	12.75	91	7413	1.005	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.48	75	79934	93.592	ug/l #	13
82) 4-Chlorotoluene	12.85	91	8258	1.075	ug/l	98
95) Naphthalene	15.23	128	11840	1.849	ug/l #	66

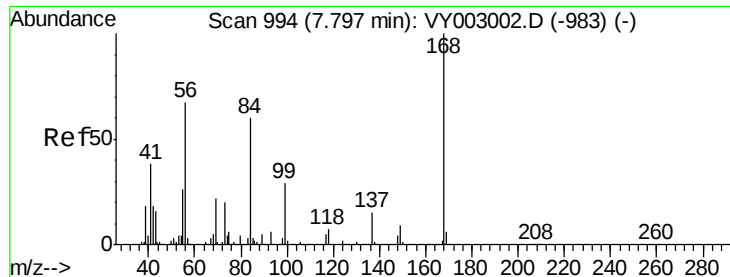
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

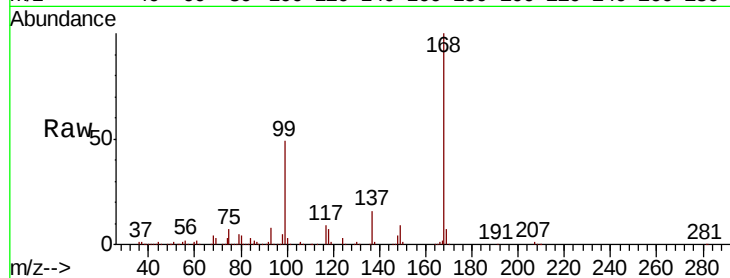
E3-41-COMP-1-FLOOR

Tot Ion:168 Resp: 232211

Ion Ratio Lower Upper

168 100

99 48.7 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003112.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003112.D (-945) (-)

7.80

100000

80000

60000

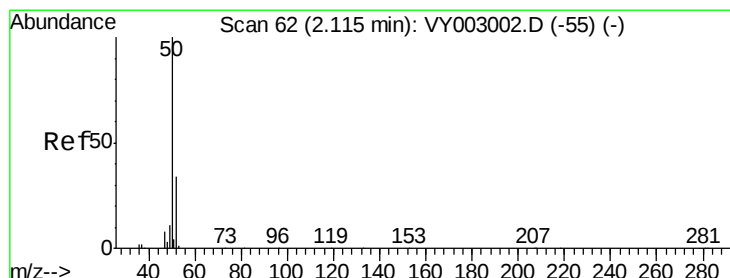
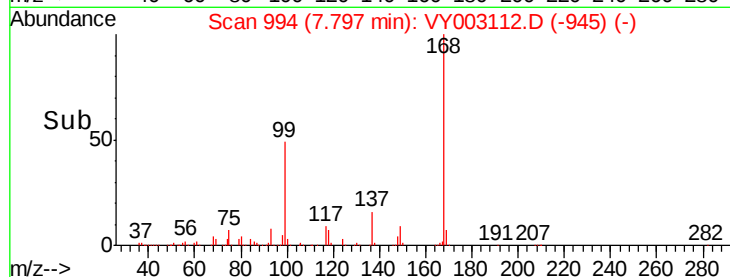
40000

20000

0

7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 1.954 ug/l

RT: 2.11 min Scan# 61

Delta R.T. -0.01 min

Lab File: VY003112.D

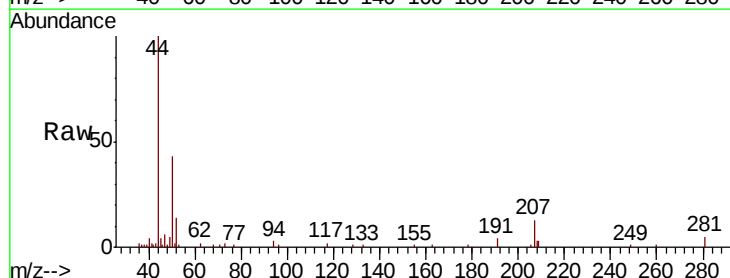
Acq: 06 Jul 2020 14:49

Tgt Ion: 50 Resp: 5033

Ion Ratio Lower Upper

50 100

52 32.8 26.9 40.3



Abundance Ion 49.90 (49.60 to 50.60): VY003112.D (-13) (-)

Ion 51.90 (51.60 to 52.60): VY003112.D (-13) (-)

2.11

3000

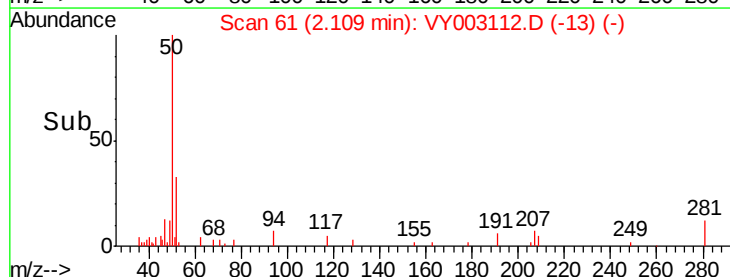
2000

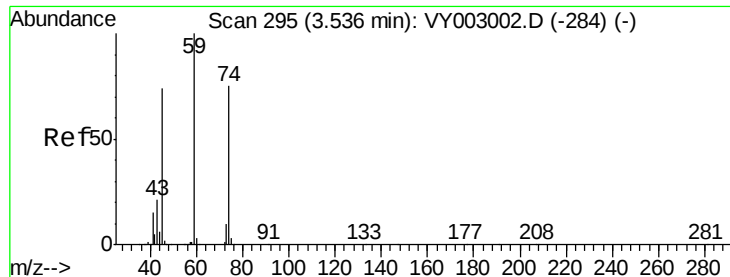
1000

0

2.05 2.10 2.15

Time-->





#8

Diethyl Ether

Concen: 1.056 ug/l

RT: 3.53 min Scan# 294

Delta R.T. -0.01 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

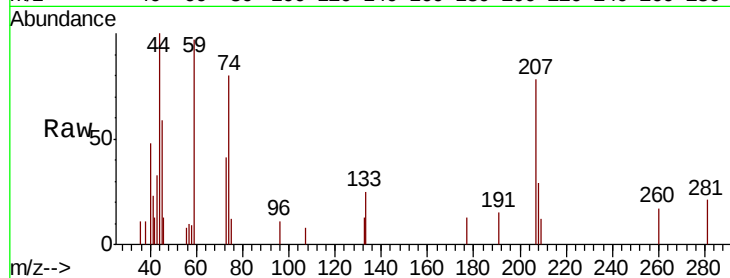
E3-41-COMP-1-FLOOR

Tot Ion: 74 Resp: 1284

Ion Ratio Lower Upper

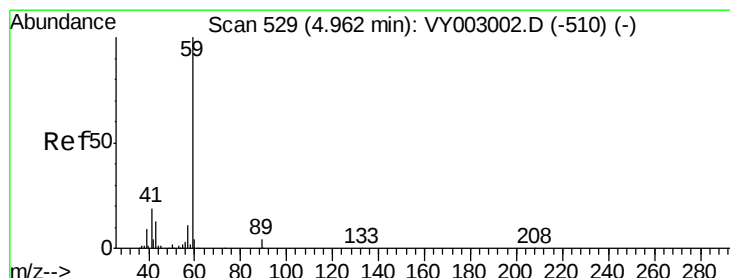
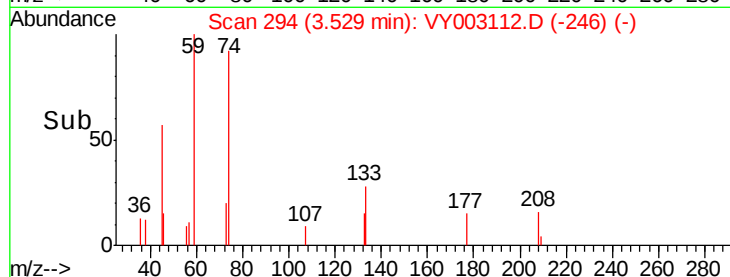
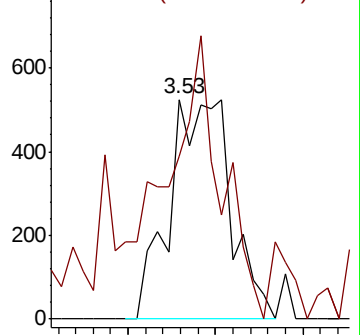
74 100

45 106.8 49.3 147.9



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0



#11

Tert butyl alcohol

Concen: 5.123 ug/l

RT: 4.97 min Scan# 530

Delta R.T. 0.01 min

Lab File: VY003112.D

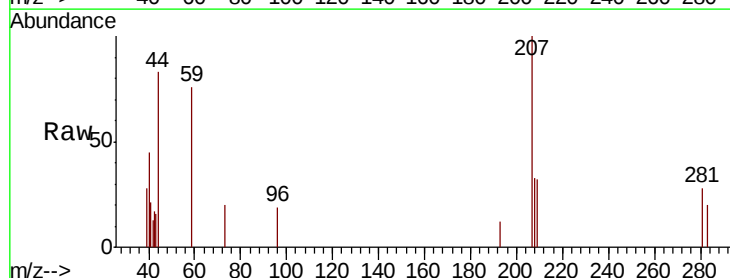
Acq: 06 Jul 2020 14:49

Tgt Ion: 59 Resp: 1204

Ion Ratio Lower Upper

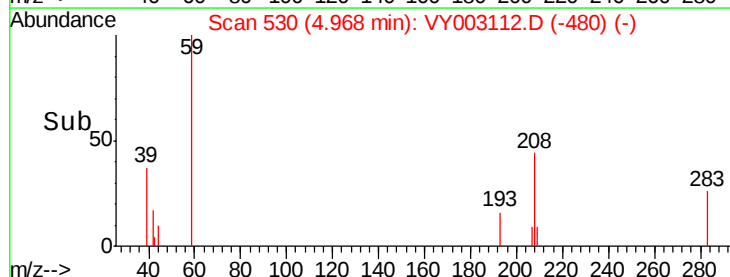
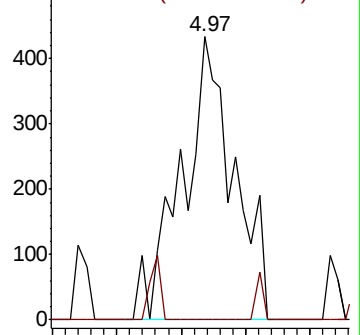
59 100

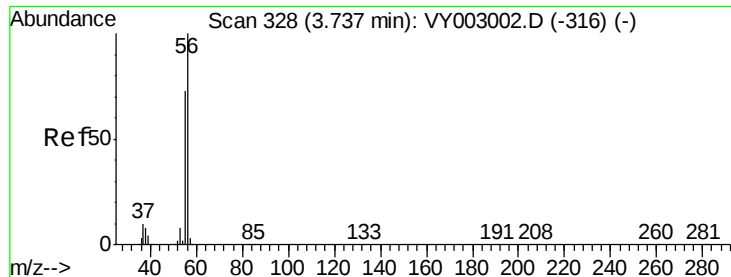
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#13

Acrolein

Concen: 7.091 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

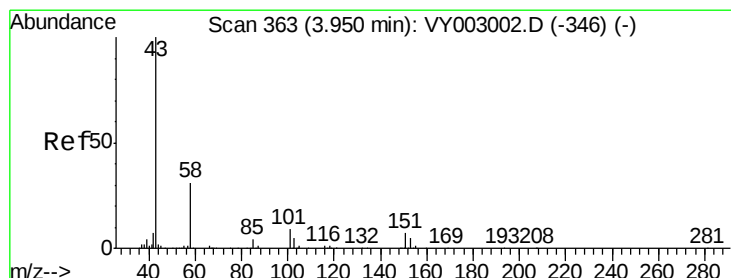
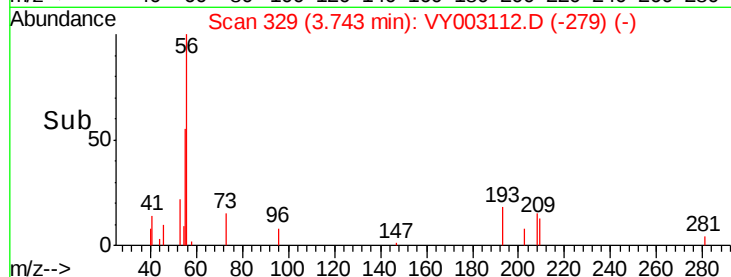
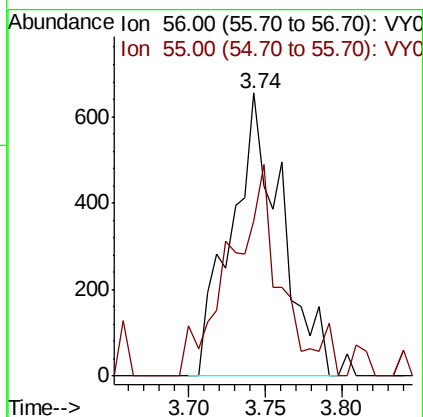
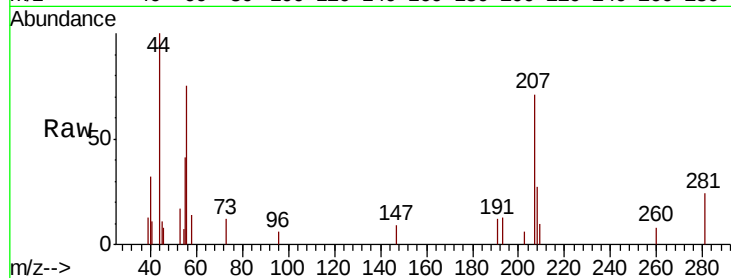
E3-41-COMP-1-FLOOR

Tot Ion: 56 Resp: 1497

Ion Ratio Lower Upper

56 100

55 72.2 56.4 84.6



#16

Acetone

Concen: 88.539 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003112.D

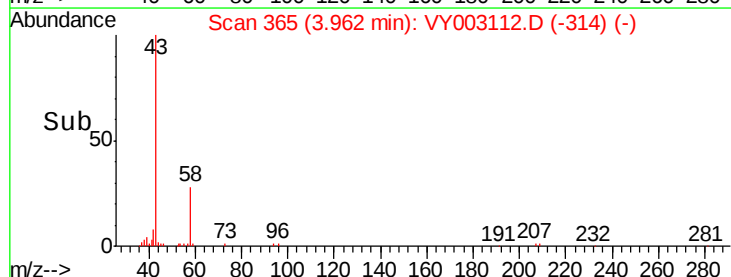
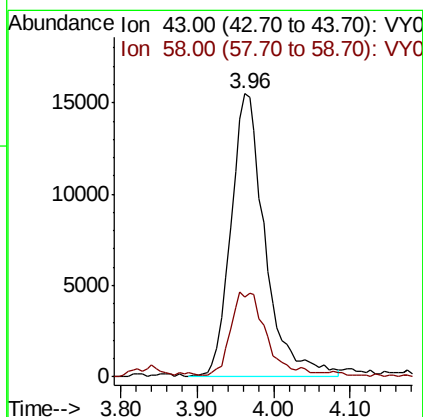
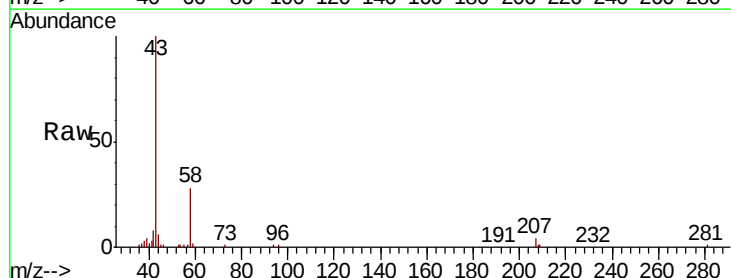
Acq: 06 Jul 2020 14:49

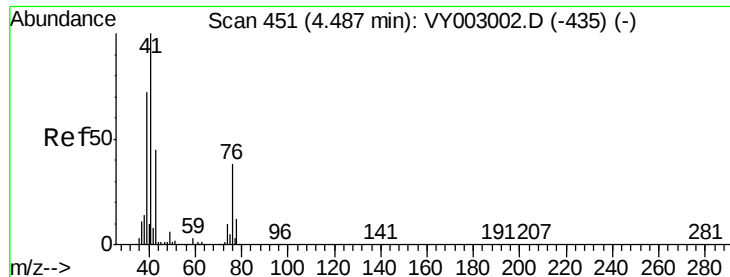
Tgt Ion: 43 Resp: 48160

Ion Ratio Lower Upper

43 100

58 26.9 24.7 37.1

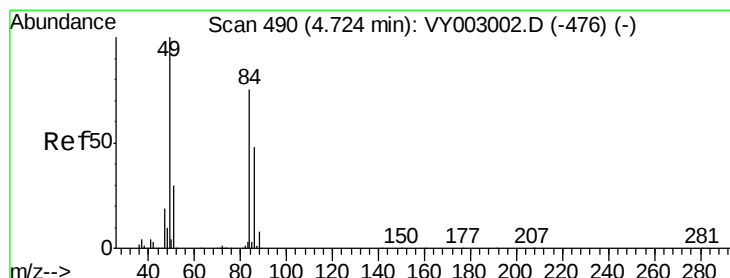
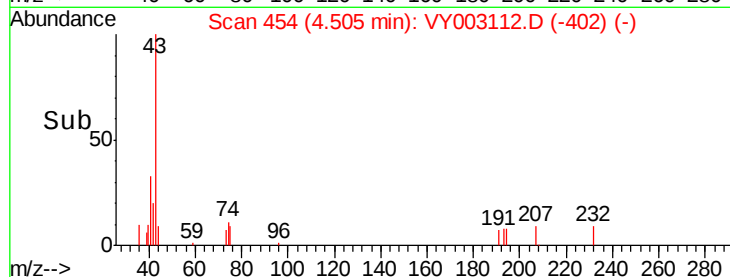
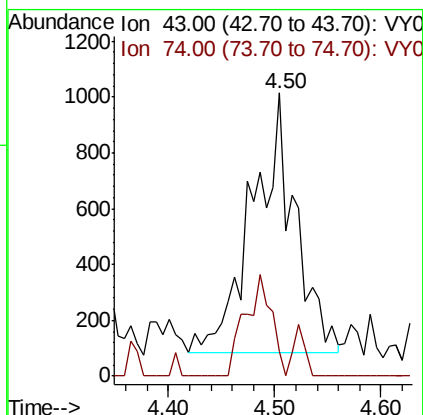
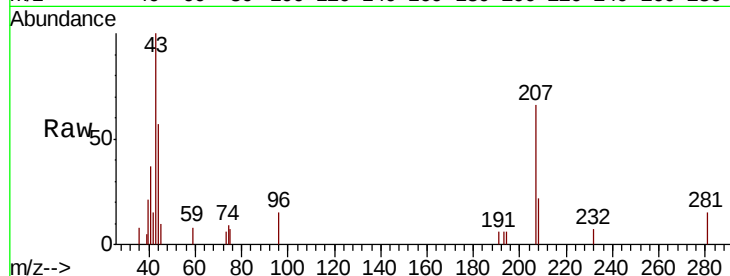




#18
Methyl Acetate
Concen: 1.760 ug/l
RT: 4.50 min Scan# 454
Delta R.T. 0.02 min
Lab File: VY003112.D
Acq: 06 Jul 2020 14:49

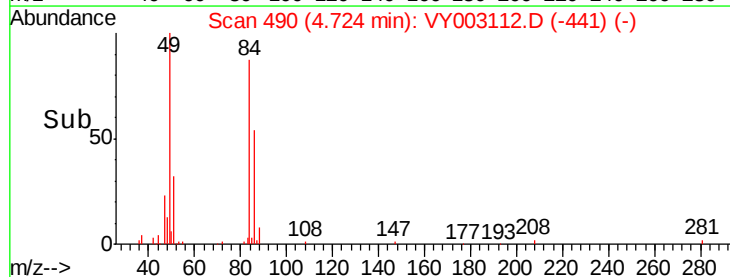
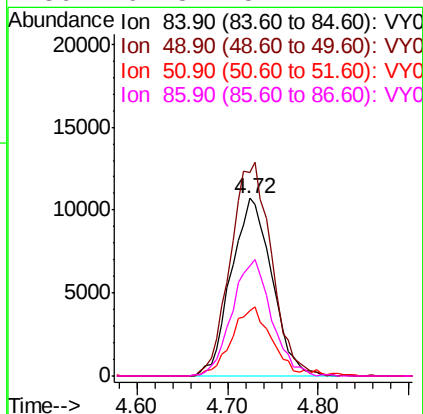
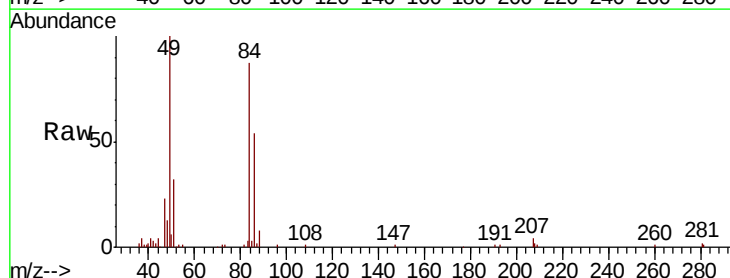
Instrument :
MSVOA_Y
ClientSampleId :
E3-41-COMP-1-FLOOR

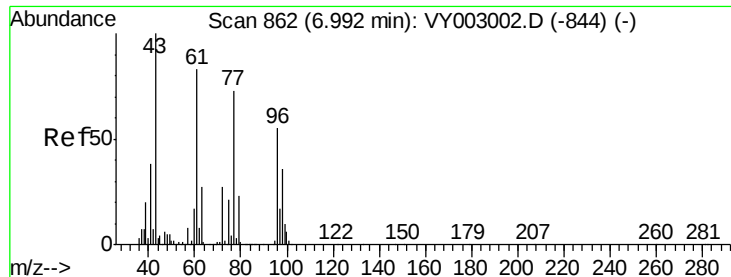
Tot Ion: 43 Resp: 2579
Ion Ratio Lower Upper
43 100
74 24.5 18.2 27.4



#20
Methylene Chloride
Concen: 7.873 ug/l
RT: 4.72 min Scan# 490
Delta R.T. 0.00 min
Lab File: VY003112.D
Acq: 06 Jul 2020 14:49

Tgt Ion: 84 Resp: 33366
Ion Ratio Lower Upper
84 100
49 114.4 106.8 160.2
51 37.1 32.0 48.0
86 61.8 51.4 77.2

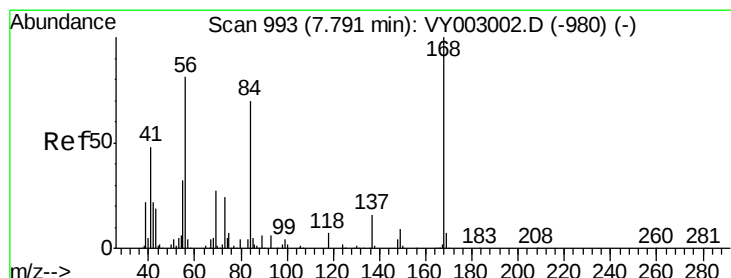
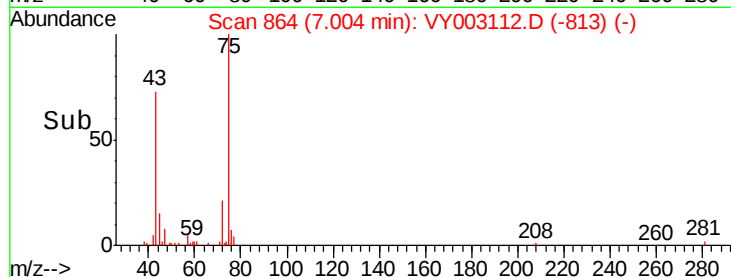
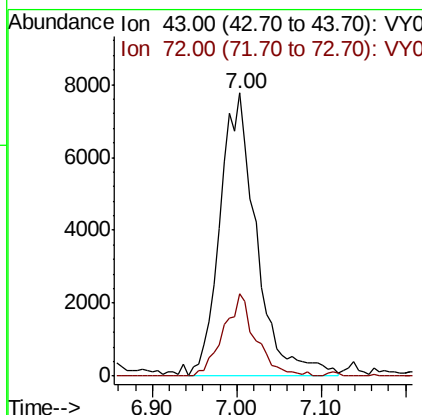
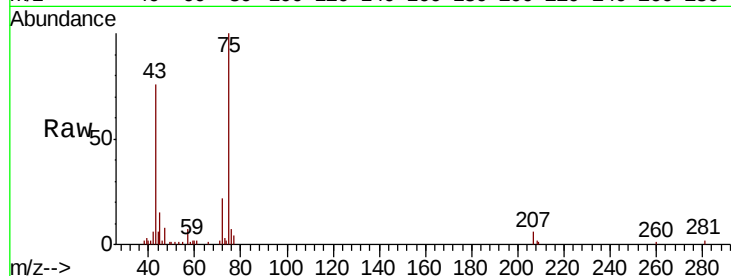




#25
2-Butanone
Concen: 26.752 ug/l
RT: 7.00 min Scan# 864
Delta R.T. 0.01 min
Lab File: VY003112.D
Acq: 06 Jul 2020 14:49

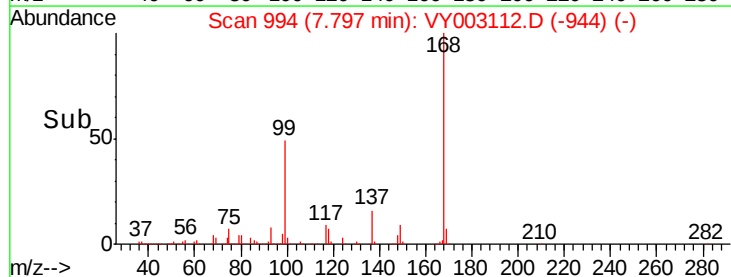
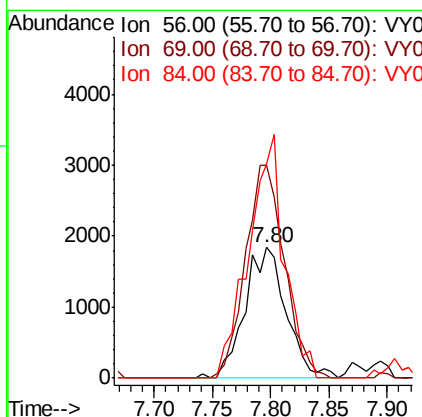
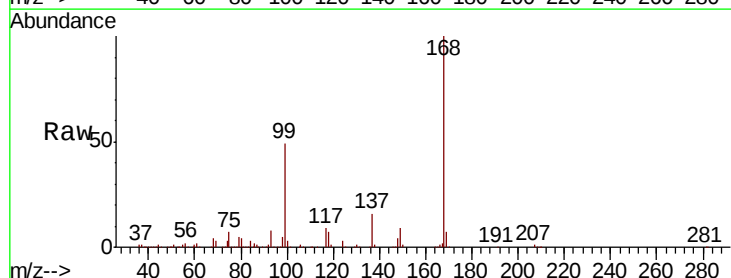
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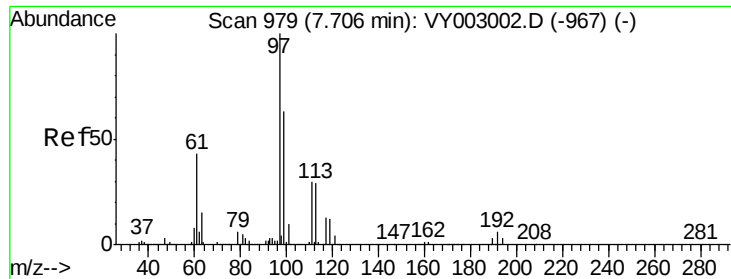
Tot Ion: 43 Resp: 23115
Ion Ratio Lower Upper
43 100
72 29.0 21.4 32.0



#31
Cyclohexane
Concen: 1.118 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.01 min
Lab File: VY003112.D
Acq: 06 Jul 2020 14:49

Tgt Ion: 56 Resp: 4536
Ion Ratio Lower Upper
56 100
69 163.2 27.0 40.4#
84 163.6 68.1 102.1#





#32

1,1,1-Trichloroethane

Concen: 1.560 ug/l

RT: 7.71 min Scan# 980

Delta R.T. 0.01 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-COMP-1-FLOOR

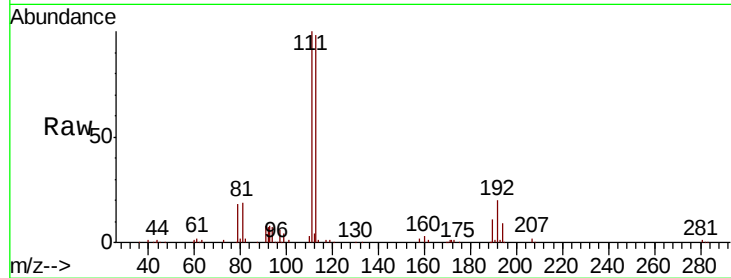
Tot Ion: 97 Resp: 5808

Ion Ratio Lower Upper

97 100

99 64.8 51.4 77.2

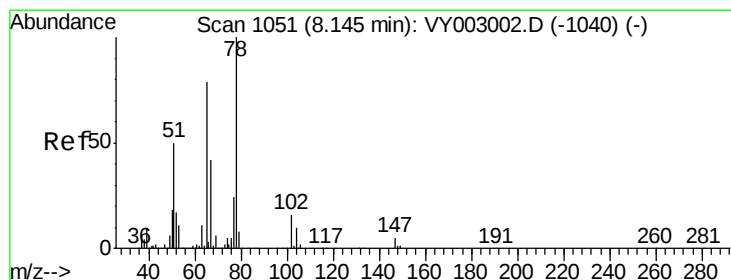
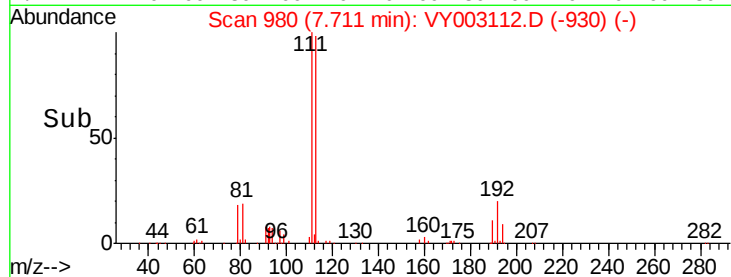
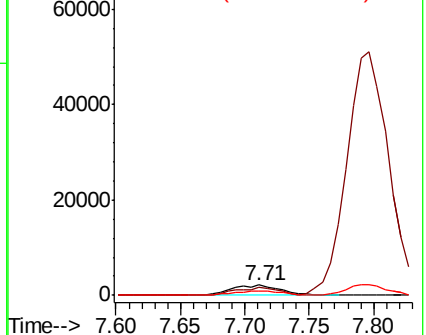
61 43.9 33.9 50.9



Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0



#33

1,2-Dichloroethane-d4

Concen: 61.311 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003112.D

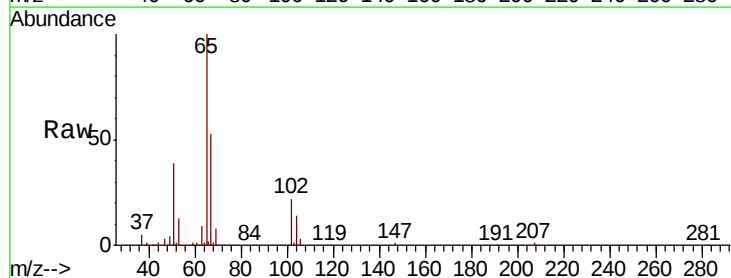
Acq: 06 Jul 2020 14:49

Tgt Ion: 65 Resp: 141403

Ion Ratio Lower Upper

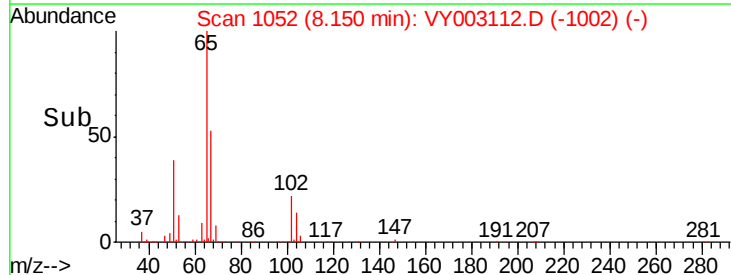
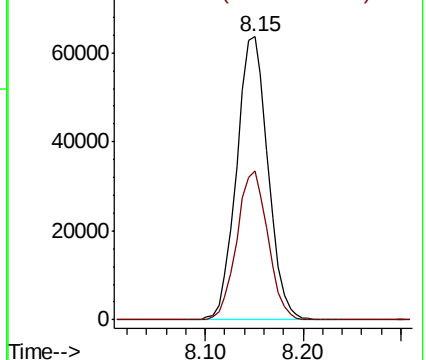
65 100

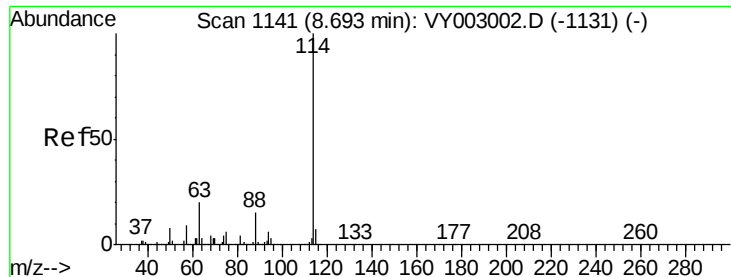
67 52.1 0.0 105.6



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: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

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E3-41-COMP-1-FLOOR

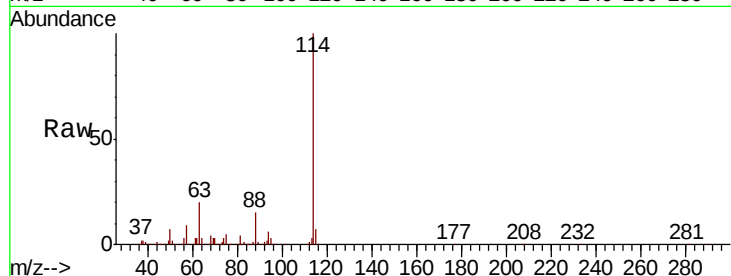
Tot Ion:114 Resp: 379070

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.6

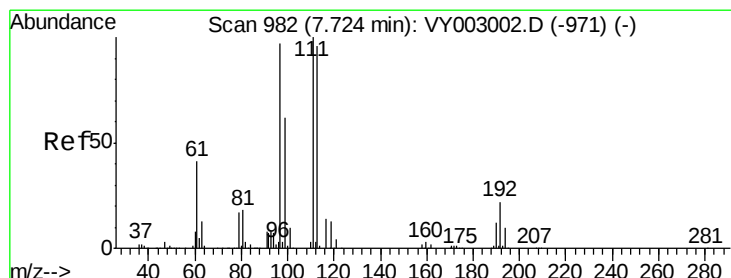
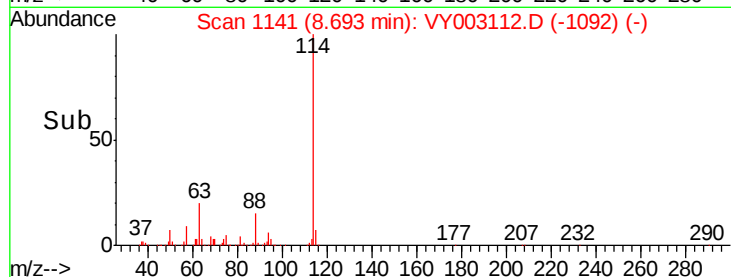
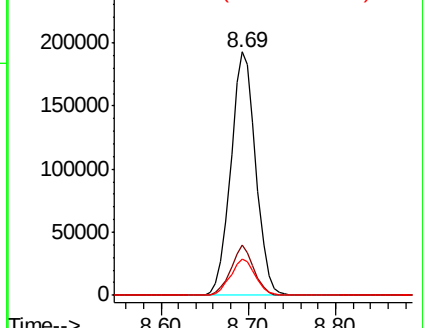
88 14.8 0.0 30.0



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: 53.577 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

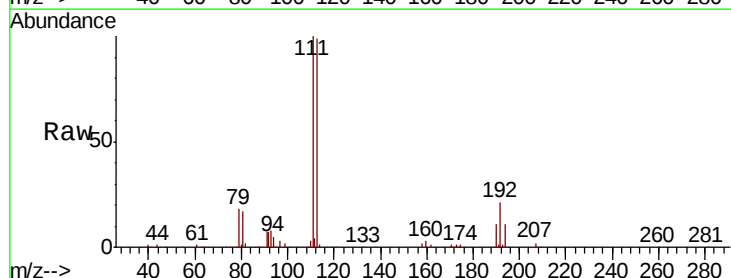
Tgt Ion:113 Resp: 126694

Ion Ratio Lower Upper

113 100

111 102.1 82.6 123.8

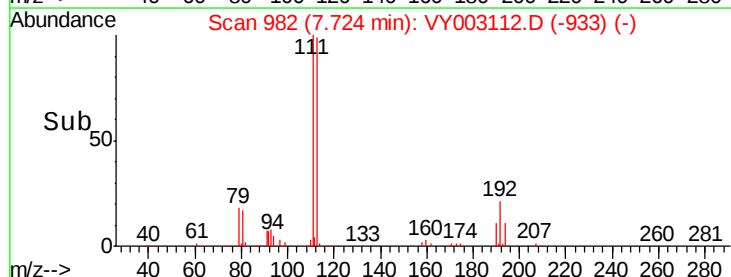
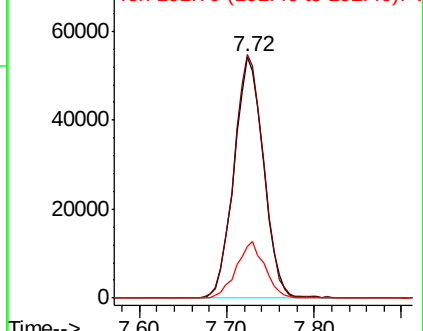
192 22.5 18.1 27.1

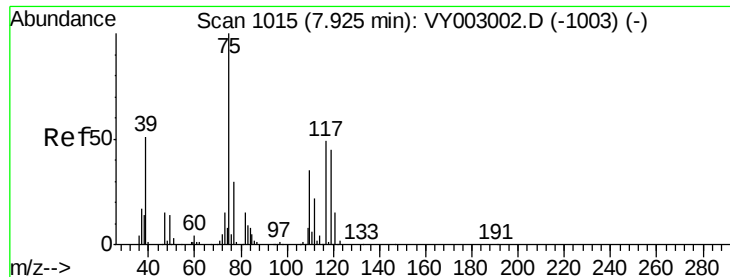


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.562 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-COMP-1-FLOOR

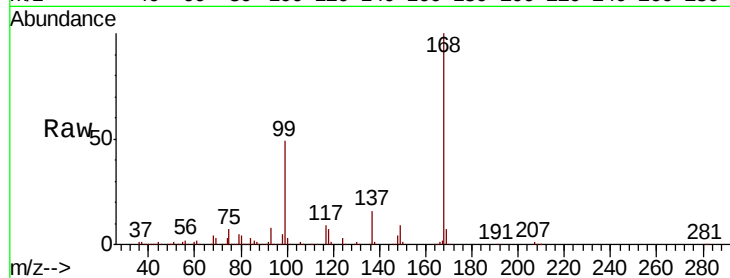
Tot Ion: 75 Resp: 16656

Ion Ratio Lower Upper

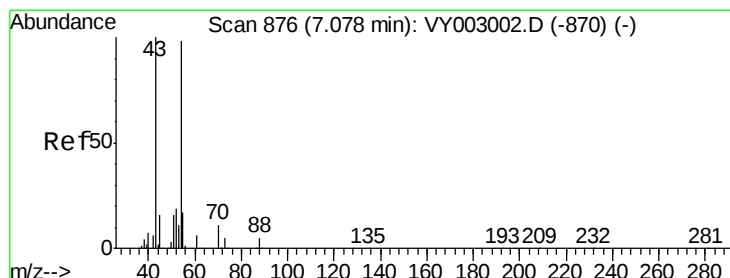
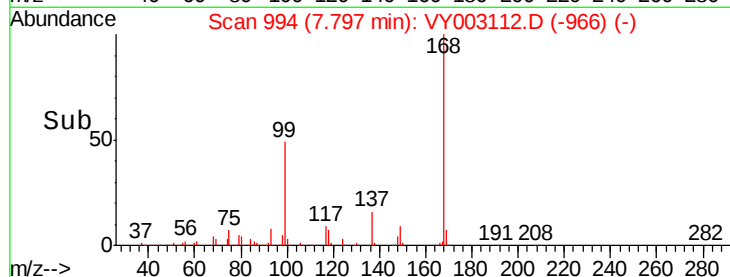
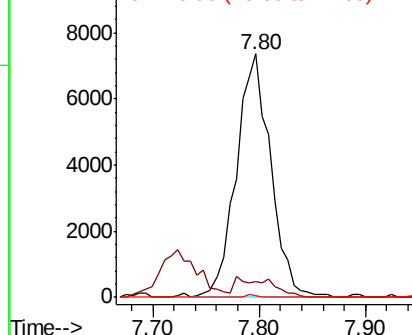
75 100

110 2.5 17.1 51.2#

77 0.4 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VY0
Ion 109.90 (109.60 to 110.60): VY0
Ion 76.90 (76.60 to 77.60): VY0



#37

Ethyl Acetate

Concen: 10.529 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.07 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

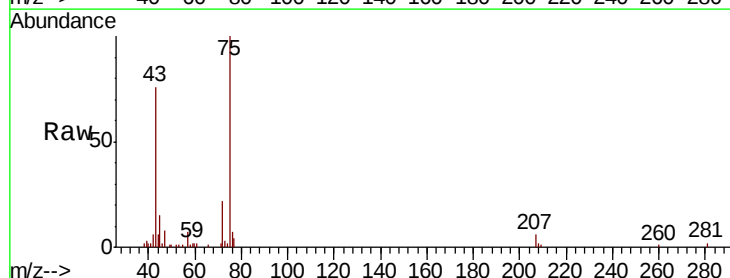
Tgt Ion: 43 Resp: 23115

Ion Ratio Lower Upper

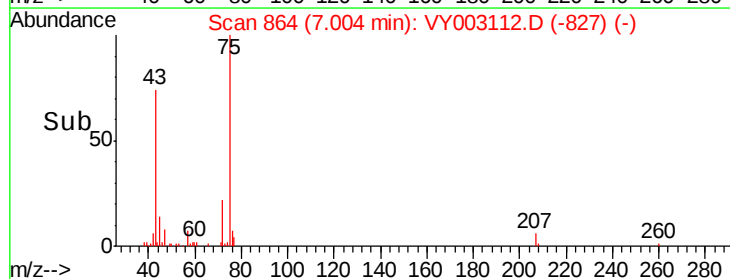
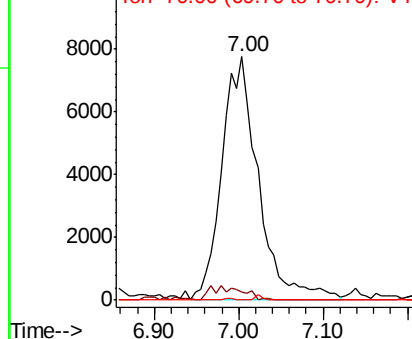
43 100

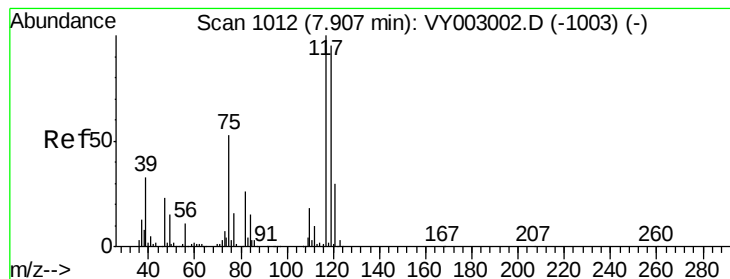
61 0.0 10.4 15.6#

70 0.2 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: 5.699 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-COMP-1-FLOOR

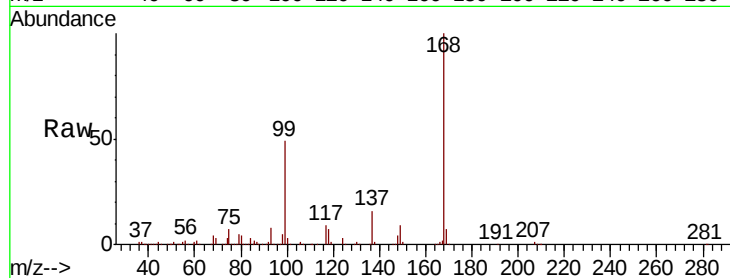
Tot Ion:117 Resp: 21649

Ion Ratio Lower Upper

117 100

119 5.6 75.7 113.5#

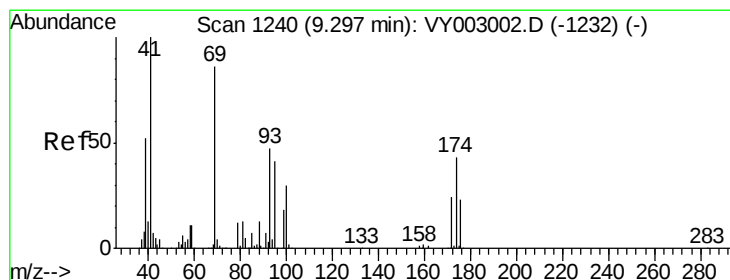
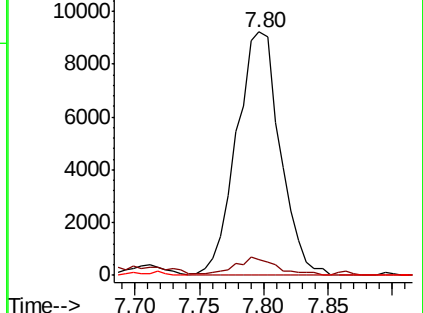
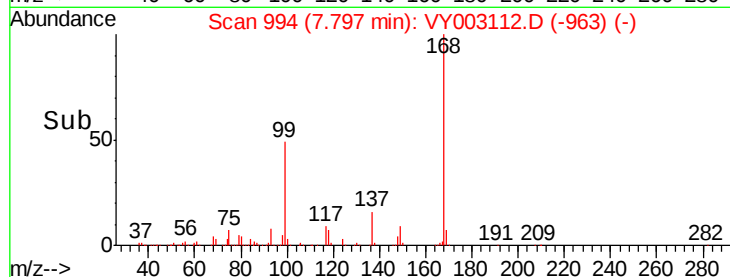
121 0.0 23.9 35.9#



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



#49

1,4-Dioxane

Concen: 2.400 ug/l

RT: 9.33 min Scan# 1245

Delta R.T. 0.03 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

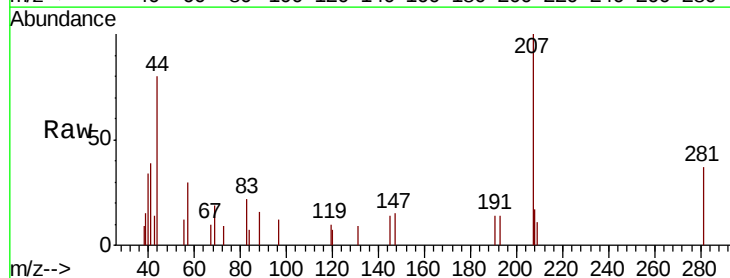
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

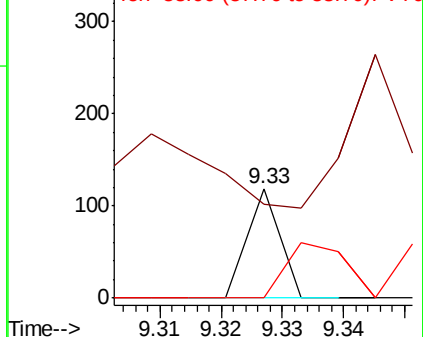
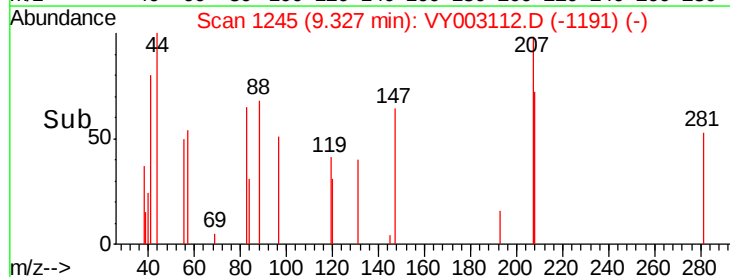
58 93.2 56.7 85.1#

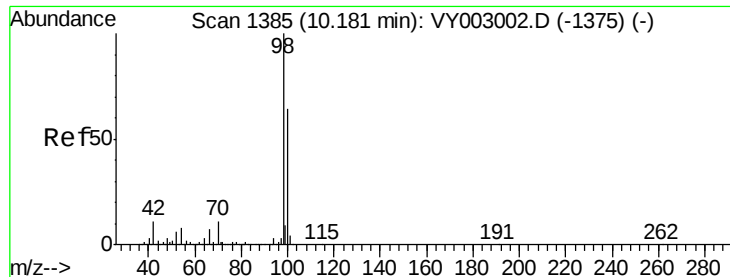


Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#50

Toluene-d8

Concen: 51.569 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

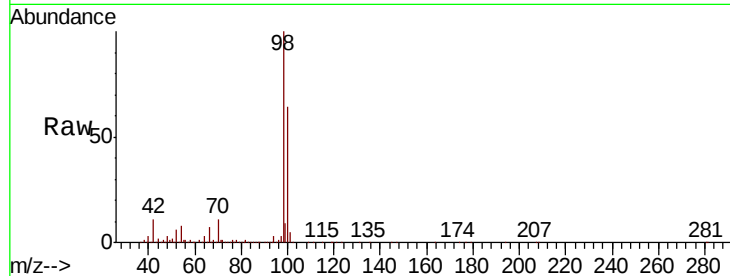
E3-41-COMP-1-FLOOR

Tot Ion: 98 Resp: 454303

Ion Ratio Lower Upper

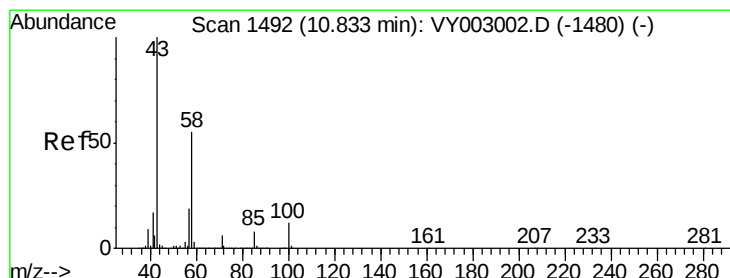
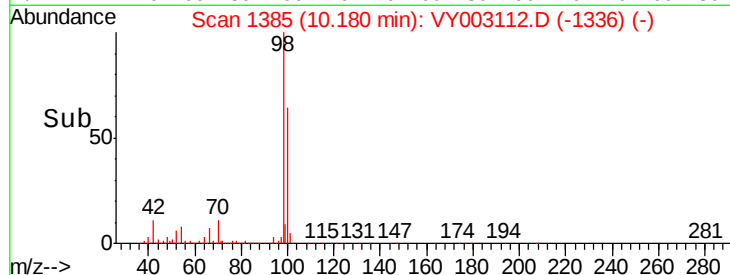
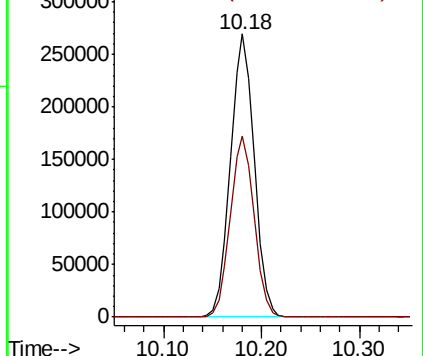
98 100

100 64.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#59

2-Hexanone

Concen: 1.180 ug/l

RT: 10.83 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VY003112.D

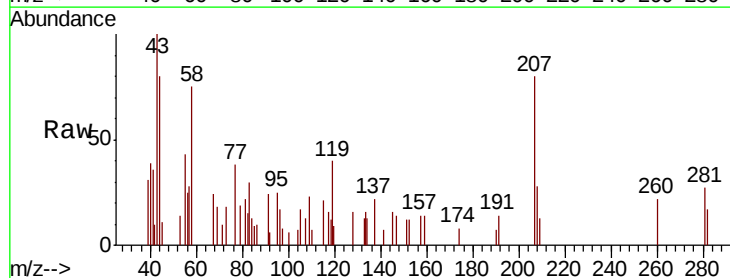
Acq: 06 Jul 2020 14:49

Tgt Ion: 43 Resp: 1779

Ion Ratio Lower Upper

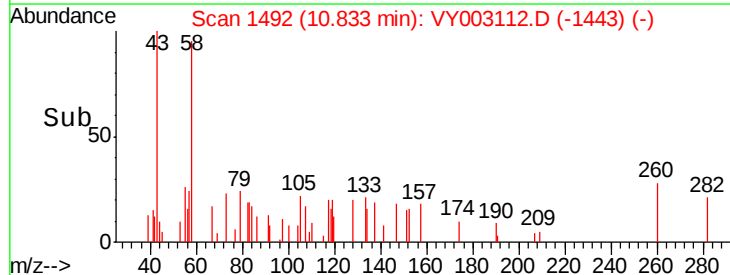
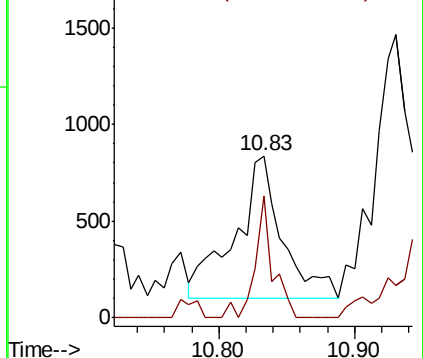
43 100

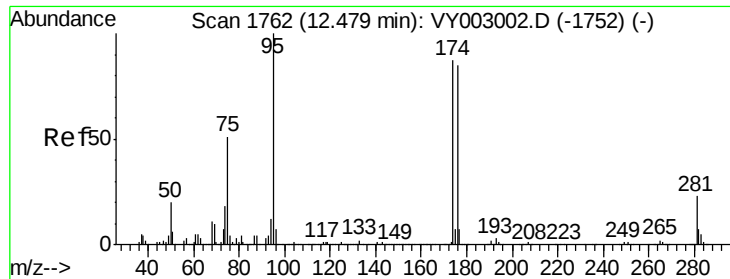
58 32.2 27.5 82.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#62

4-Bromofluorobenzene

Concen: 51.386 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

E3-41-COMP-1-FLOOR

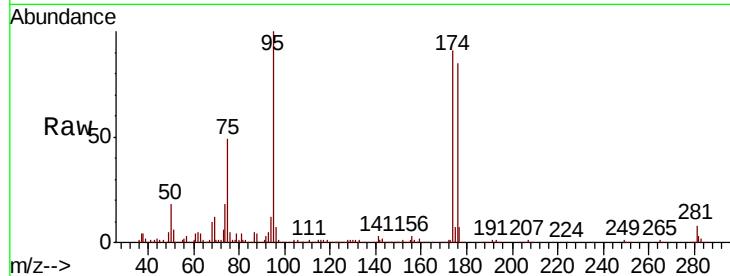
Tot Ion: 95 Resp: 159346

Ion Ratio Lower Upper

95 100

174 96.3 0.0 184.8

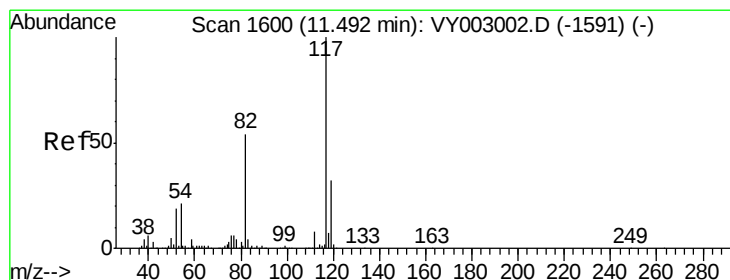
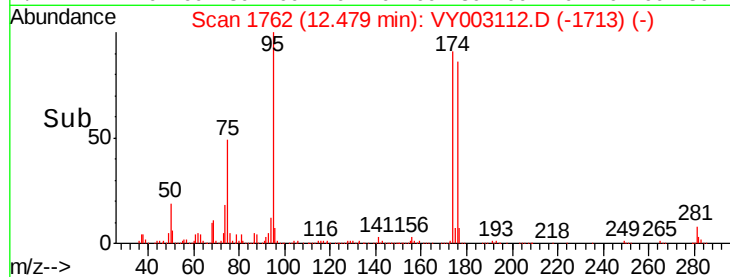
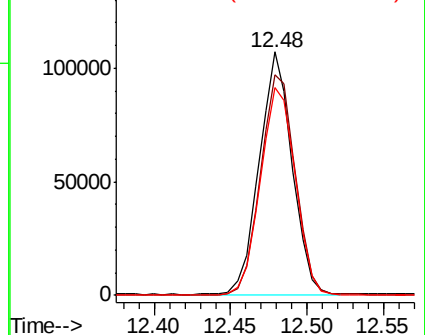
176 91.5 0.0 183.0



Abundance Ion 94.90 (94.60 to 95.60): VY003112.D (-1752) (-)

Ion 173.80 (173.50 to 174.50): VY003112.D (-1752) (-)

Ion 175.80 (175.50 to 176.50): VY003112.D (-1752) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

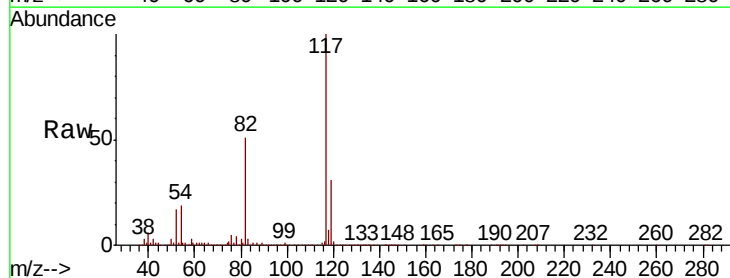
Tgt Ion: 117 Resp: 366476

Ion Ratio Lower Upper

117 100

82 51.4 43.0 64.6

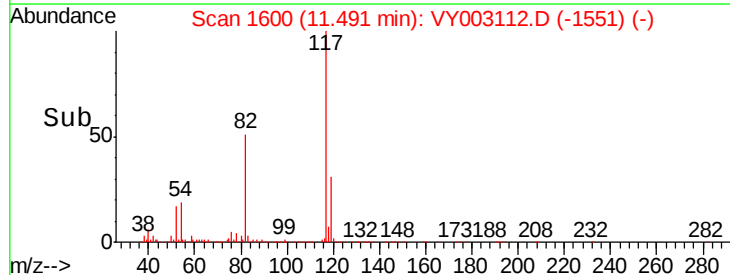
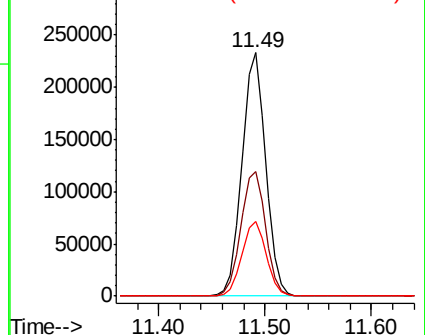
119 30.7 25.8 38.8

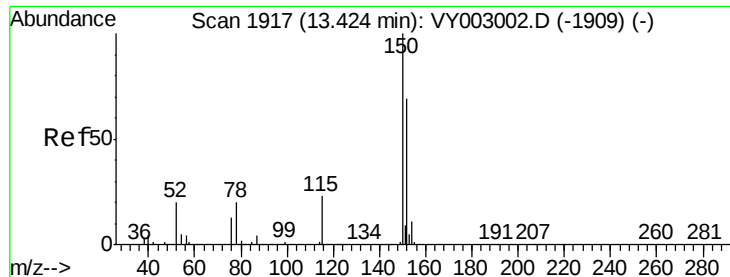


Abundance Ion 116.90 (116.60 to 117.60): VY003112.D (-1551) (-)

Ion 82.00 (81.70 to 82.70): VY003112.D (-1551) (-)

Ion 118.90 (118.60 to 119.60): VY003112.D (-1551) (-)



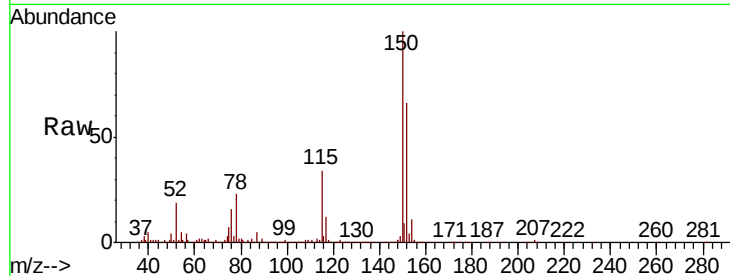


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY003112.D
Acq: 06 Jul 2020 14:49

Instrument :
MSVOA_Y
ClientSampleId :
E3-41-COMP-1-FLOOR

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	27.3	81.9
150	155.7	0.0	343.4

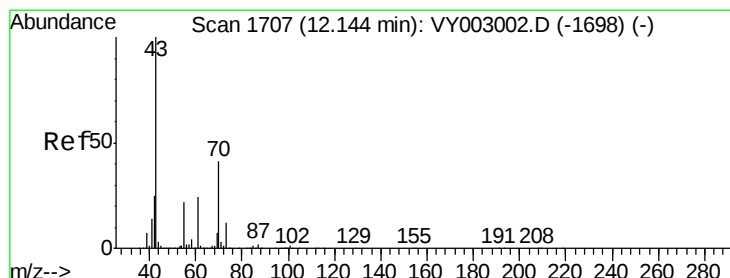
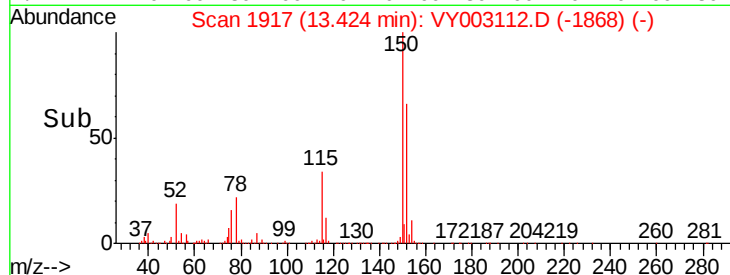
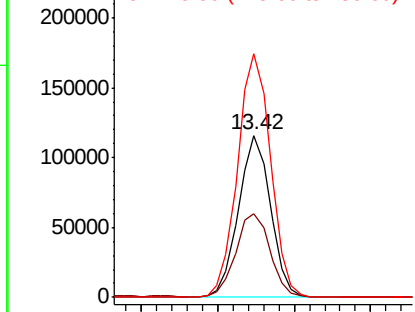


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

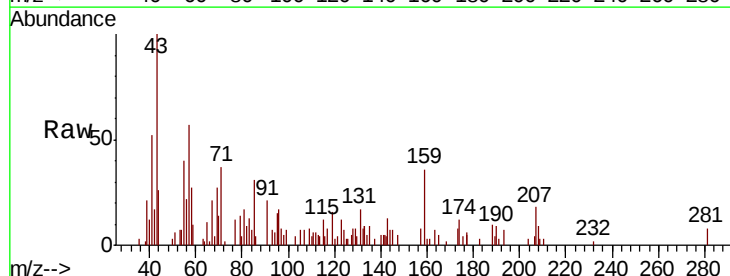
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 1.116 ug/l
RT: 12.11 min Scan# 1701
Delta R.T. -0.04 min
Lab File: VY003112.D
Acq: 06 Jul 2020 14:49

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	33.0	49.4#
55	0.0	18.2	27.2#
61	0.5	19.4	29.2#



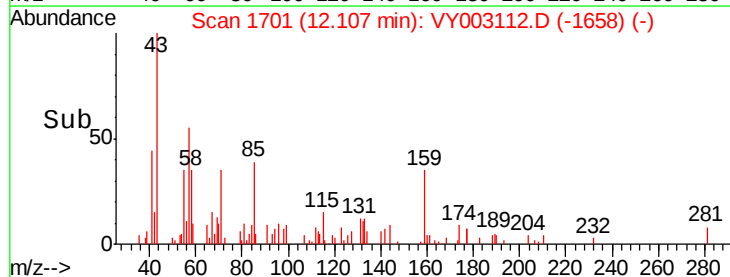
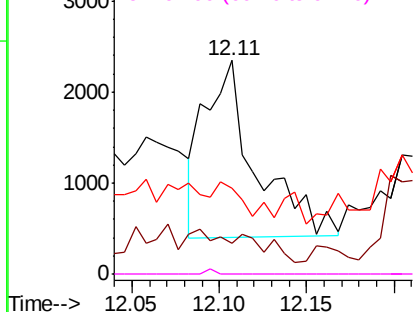
Abundance

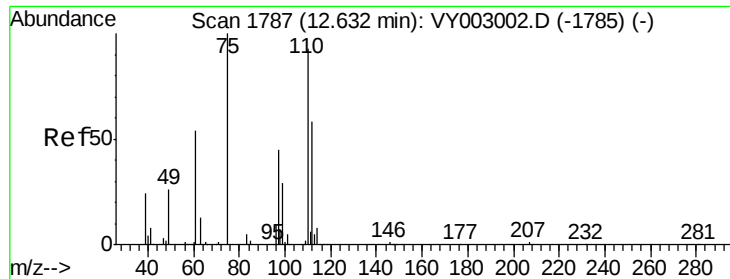
Ion 43.00 (42.70 to 43.70): VY0

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: 48.105 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

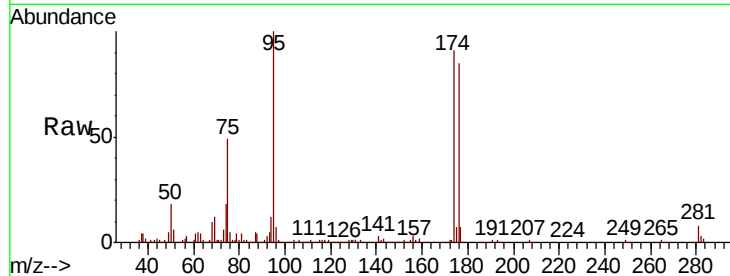
E3-41-COMP-1-FLOOR

Tot Ion: 75 Resp: 79934

Ion Ratio Lower Upper

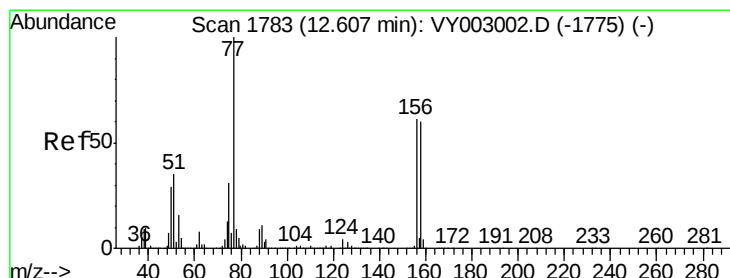
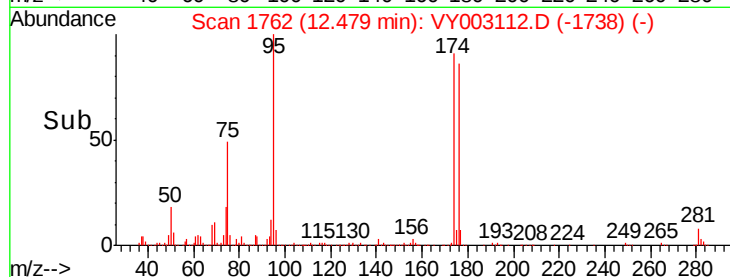
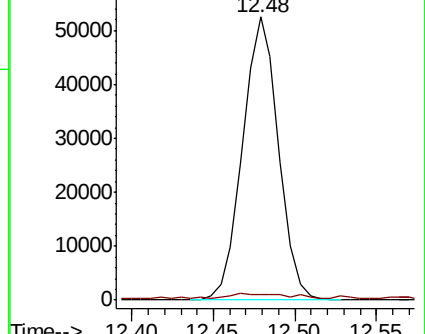
75 100

77 3.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY003112.D (-1738) (-)

Ion 77.00 (76.70 to 77.70): VY003112.D (-1738) (-)



#77

Bromobenzene

Concen: 3.966 ug/l

RT: 12.69 min Scan# 1796

Delta R.T. 0.08 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

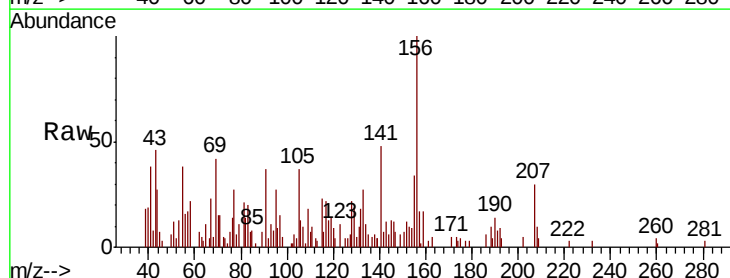
Tgt Ion: 156 Resp: 11174

Ion Ratio Lower Upper

156 100

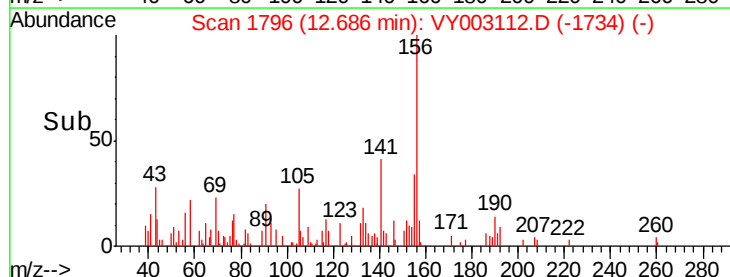
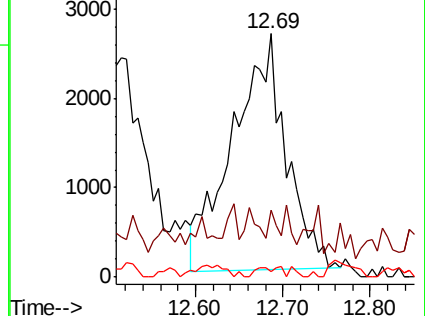
77 1.8 90.0 270.0#

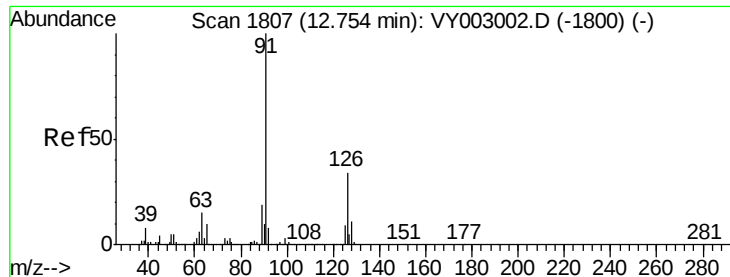
158 1.2 48.5 145.5#



Abundance Ion 155.80 (155.50 to 156.50): VY003112.D (-1734) (-)

Ion 77.00 (76.70 to 77.70): VY003112.D (-1734) (-)





#79

2-Chlorotoluene

Concen: 1.005 ug/l

RT: 12.75 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

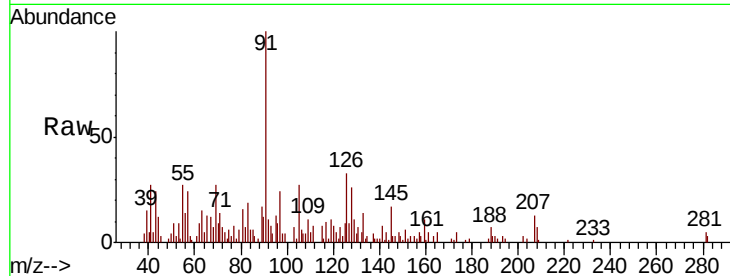
E3-41-COMP-1-FLOOR

Tot Ion: 91 Resp: 7413

Ion Ratio Lower Upper

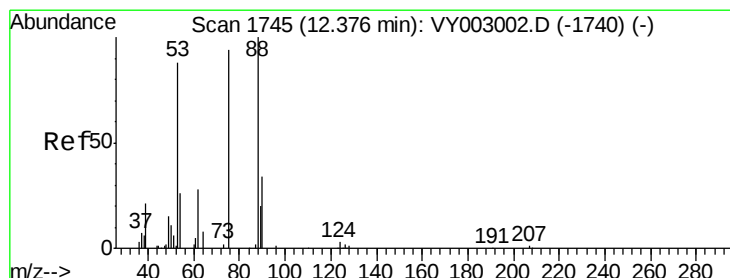
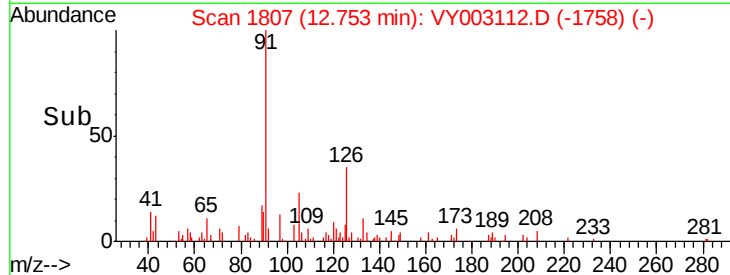
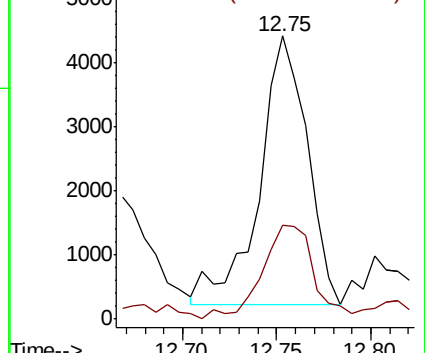
91 100

126 37.6 17.1 51.3



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 93.592 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

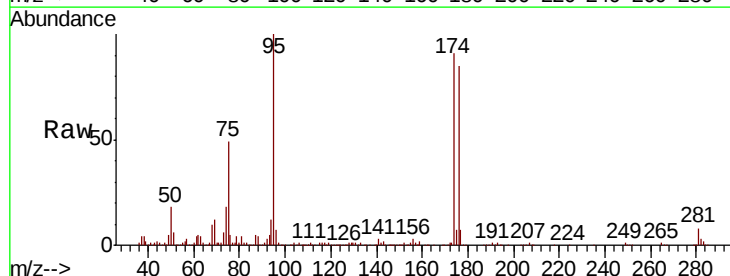
Tgt Ion: 75 Resp: 79934

Ion Ratio Lower Upper

75 100

53 0.4 73.9 110.9#

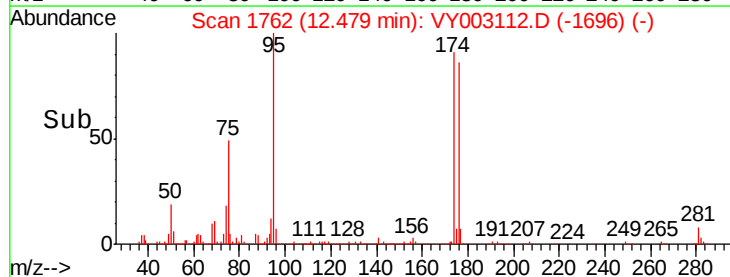
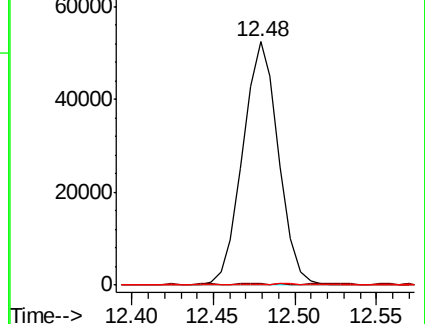
89 0.6 37.5 56.3#

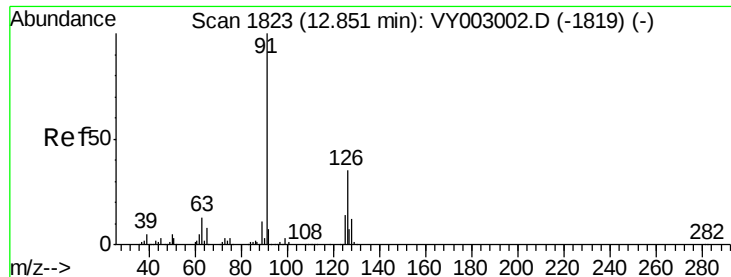


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#82

4-Chlorotoluene

Concen: 1.075 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. -0.00 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

Instrument :

MSVOA_Y

ClientSampleId :

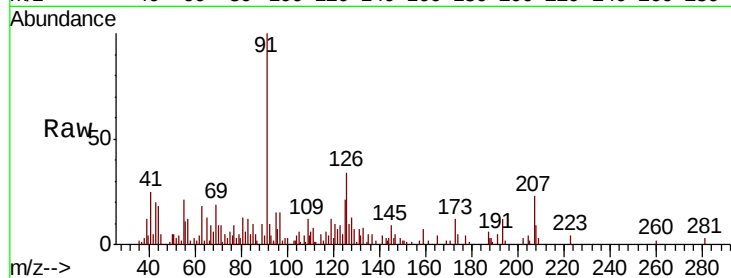
E3-41-COMP-1-FLOOR

Tot Ion: 91 Resp: 8258

Ion Ratio Lower Upper

91 100

126 33.7 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): VY003112.D (-1774) (-)

Ion 125.90 (125.60 to 126.60): VY003112.D (-1774) (-)

12.85

6000

5000

4000

3000

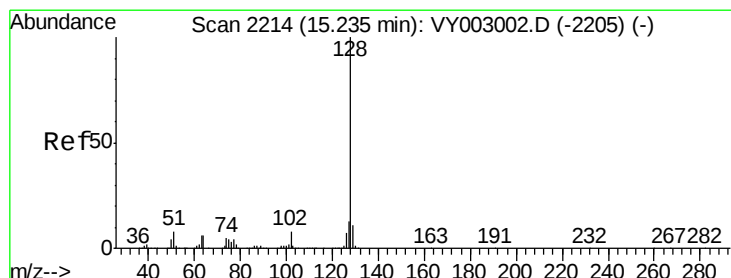
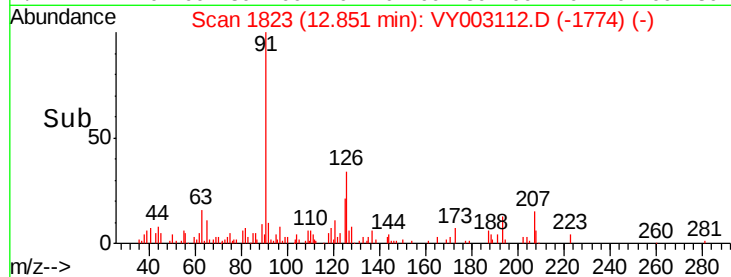
2000

1000

0

12.80 12.85 12.90

Time-->



#95

Naphthalene

Concen: 1.849 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.01 min

Lab File: VY003112.D

Acq: 06 Jul 2020 14:49

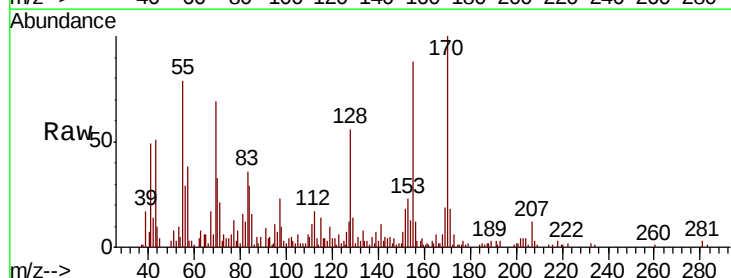
Tgt Ion: 128 Resp: 11840

Ion Ratio Lower Upper

128 100

127 27.1 10.8 16.2#

129 23.5 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VY003112.D (-2165) (-)

Ion 127.00 (126.70 to 127.70): VY003112.D (-2165) (-)

Ion 129.00 (128.70 to 129.70): VY003112.D (-2165) (-)

8000

6000

4000

2000

0

15.20 15.23 15.30

Time-->

