

Data File : VY002450.D
Acq On : 21 Apr 2020 21:38
Operator : SY/MD
Sample : L2351-01
Misc : 6.20G/5ML/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-17-(1-2)

Quant Time: Apr 22 02:40:05 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y042020S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 20 15:14:11 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	207876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	353825	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	289819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	117382	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.17	65	107948	71.40	ug/l	0.01
Spiked Amount	50.000		Recovery	=	142.80%	
35) Dibromofluoromethane	7.74	113	597	0.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	0.64%	
50) Toluene-d8	10.19	98	432998	57.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.04%	
62) 4-Bromofluorobenzene	12.49	95	127157	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	

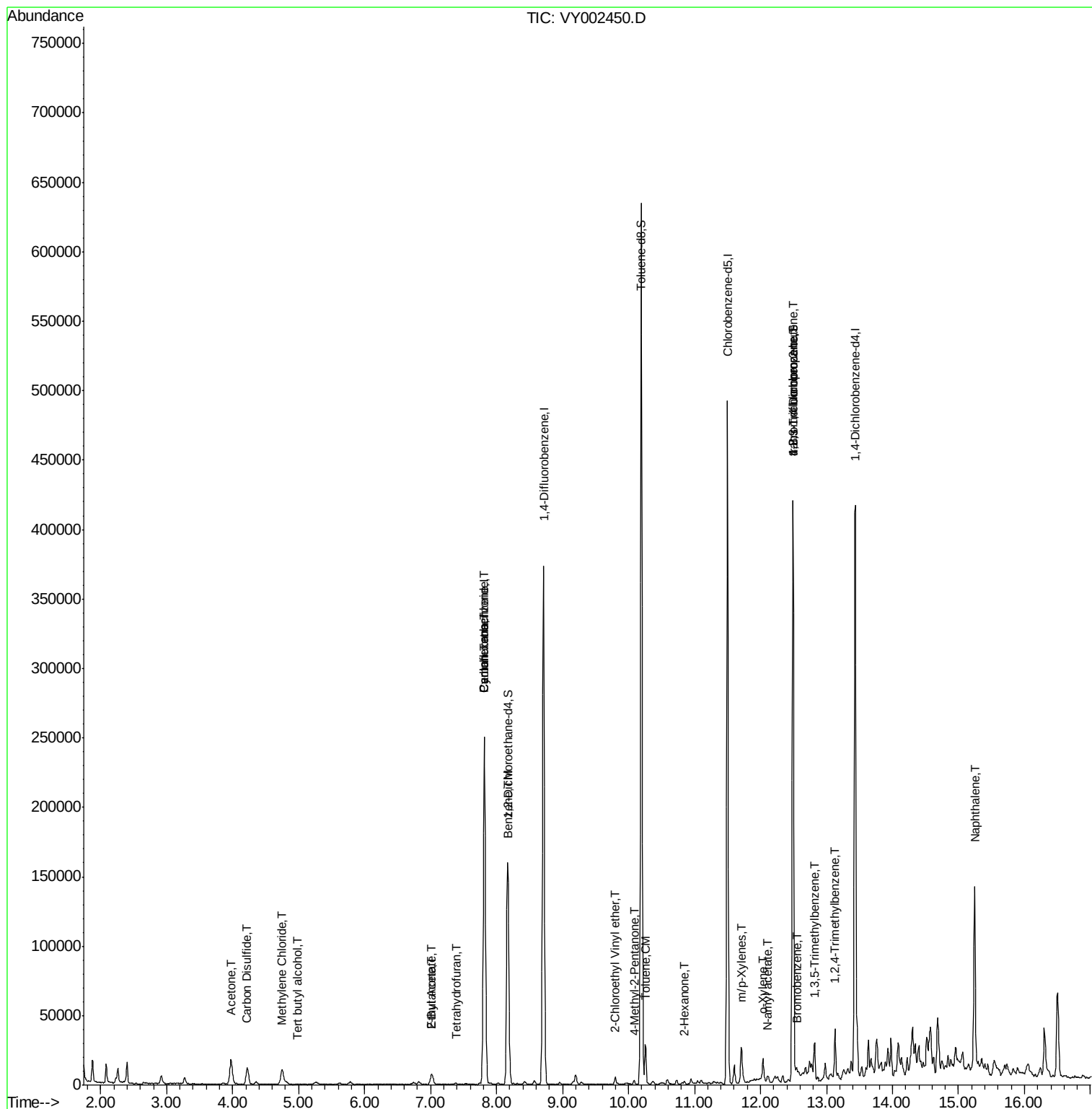
Target Compounds						Qvalue
11) Tert butyl alcohol	4.98	59	512	2.834	ug/l #	74
16) Acetone	3.97	43	30652	75.866	ug/l	97
17) Carbon Disulfide	4.22	76	25304	4.207	ug/l	98
20) Methylene Chloride	4.75	84	8476	3.749	ug/l	93
25) 2-Butanone	7.02	43	7512	13.044	ug/l	95
29) Tetrahydrofuran	7.38	42	423	1.145	ug/l #	66
31) Cyclohexane	7.82	56	5311	1.698	ug/l #	19
37) Ethyl Acetate	7.02	43	7512	5.642	ug/l #	69
38) Carbon Tetrachloride	7.82	117	19130	6.671	ug/l #	14
40) Benzene	8.18	78	33973	3.877	ug/l	99
51) 4-Methyl-2-Pentanone	10.08	43	2006	1.547	ug/l	98
52) Toluene	10.25	92	11860	2.139	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.80	63	2176	1.946	ug/l	98
59) 2-Hexanone	10.85	43	1858	2.019	ug/l	75
68) m/p-Xylenes	11.71	106	8458	2.276	ug/l	95
69) o-Xylene	12.04	106	4738	1.353	ug/l	98
74) N-amyl acetate	12.11	43	2342	1.391	ug/l #	48
76) 1,2,3-Trichloropropane	12.49	75	58021	56.107	ug/l #	100
77) Bromobenzene	12.54	156	9845	5.073	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.82	105	7096	1.117	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.49	75	58021	109.348	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.13	105	21086	3.314	ug/l	99
95) Naphthalene	15.25	128	111084	24.208	ug/l	100

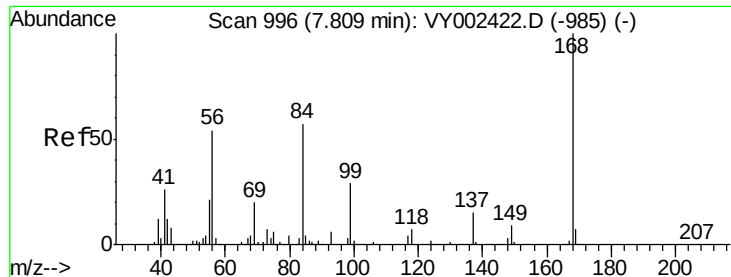
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampleId :

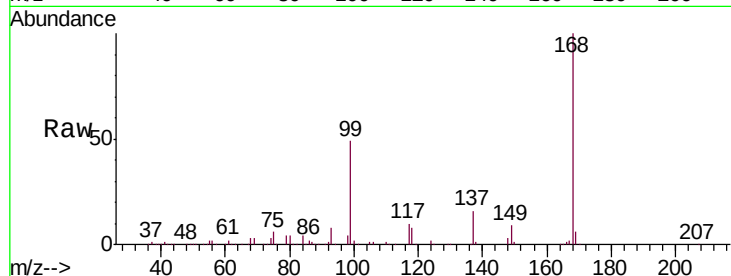
TP-17-(1-2)

Tgt Ion:168 Resp: 207876

Ion Ratio Lower Upper

168 100

99 49.0 37.0 55.4



Abundance Ion 167.90 (167.60 to 168.60): VY002422.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002422.D (-985) (-)

7.82

100000

80000

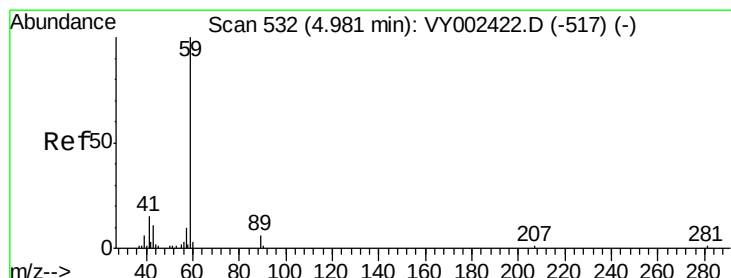
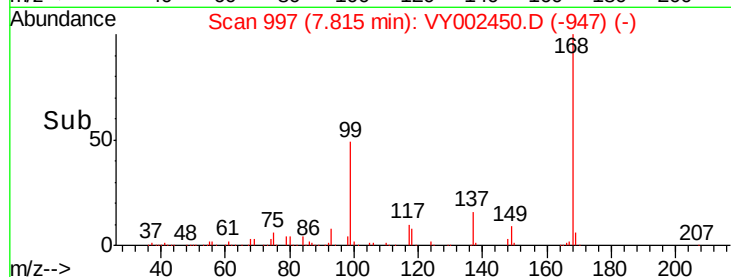
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.834 ug/l

RT: 4.98 min Scan# 532

Delta R.T. -0.00 min

Lab File: VY002450.D

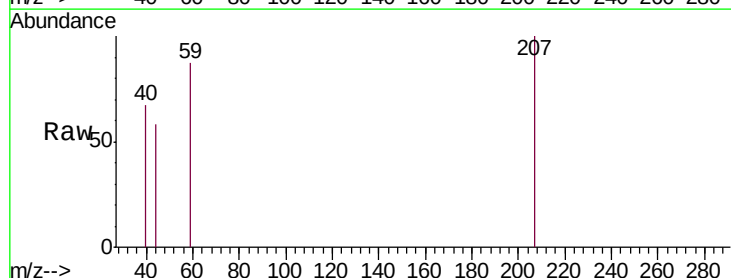
Acq: 21 Apr 2020 21:38

Tgt Ion: 59 Resp: 512

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY002422.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY002422.D (-517) (-)

4.98

200

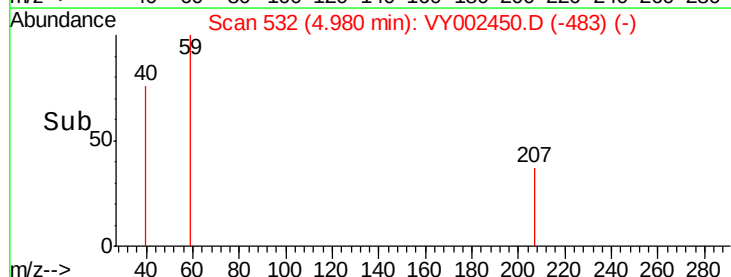
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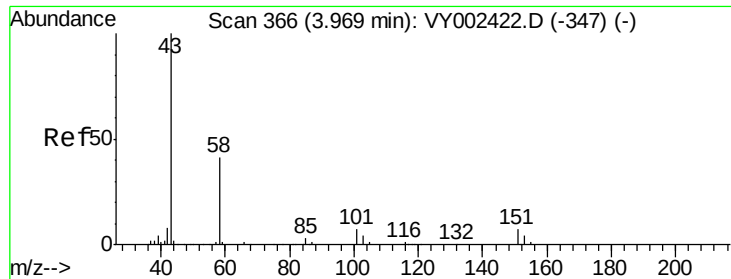
100

50

0

Time-->





#16

Acetone

Concen: 75.866 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampleId :

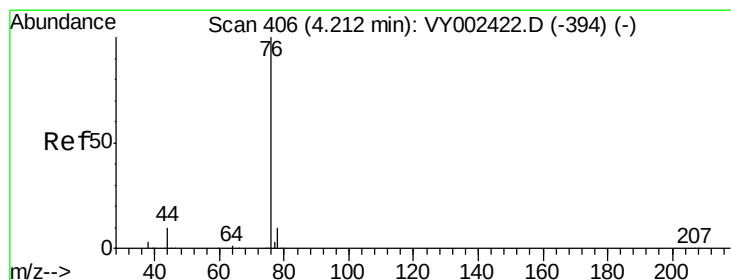
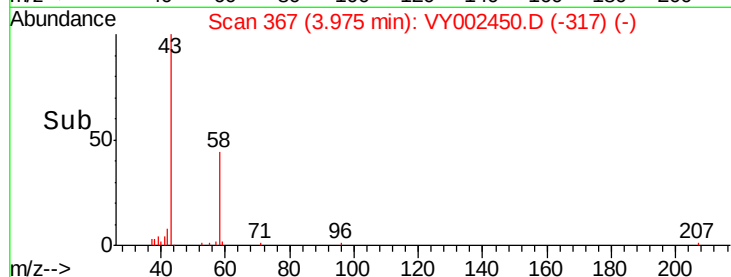
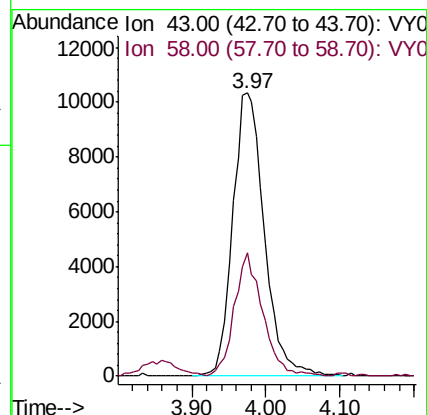
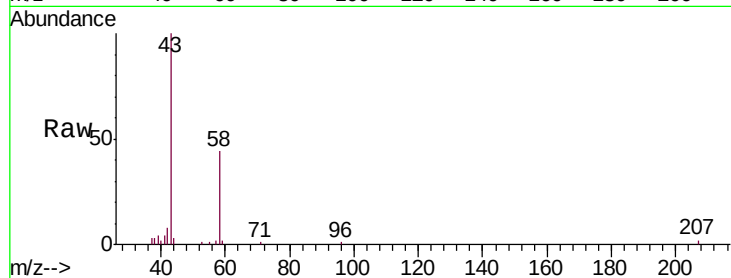
TP-17-(1-2)

Tgt Ion: 43 Resp: 30652

Ion Ratio Lower Upper

43 100

58 42.8 32.6 48.8



#17

Carbon Disulfide

Concen: 4.207 ug/l

RT: 4.22 min Scan# 407

Delta R.T. 0.01 min

Lab File: VY002450.D

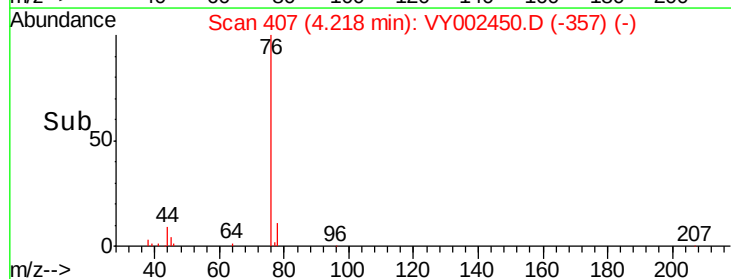
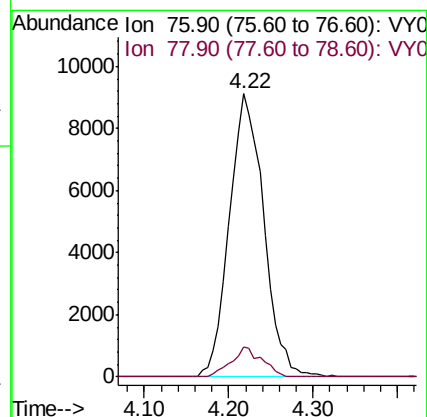
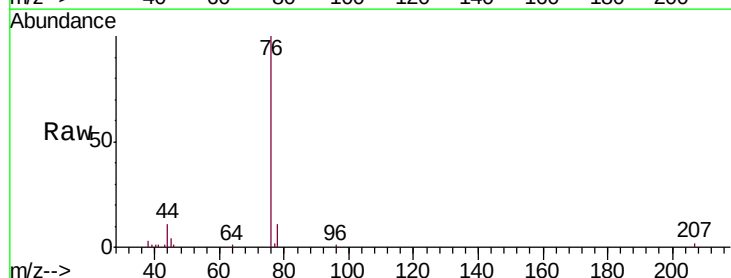
Acq: 21 Apr 2020 21:38

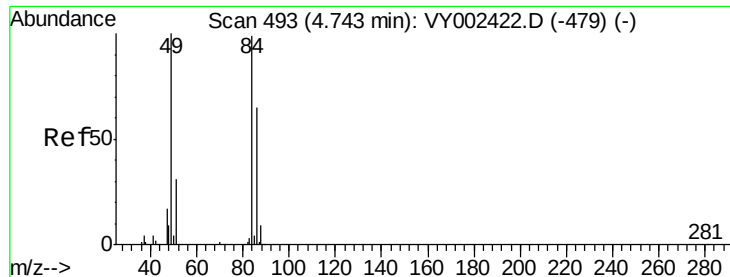
Tgt Ion: 76 Resp: 25304

Ion Ratio Lower Upper

76 100

78 10.6 7.8 11.6

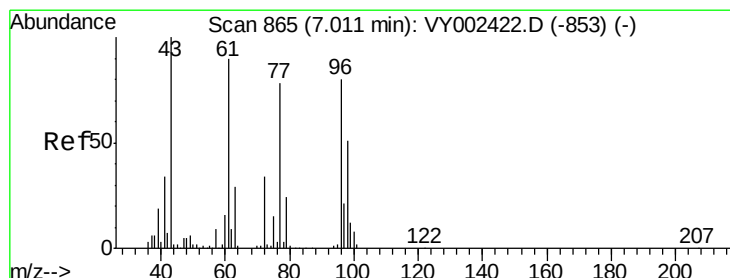
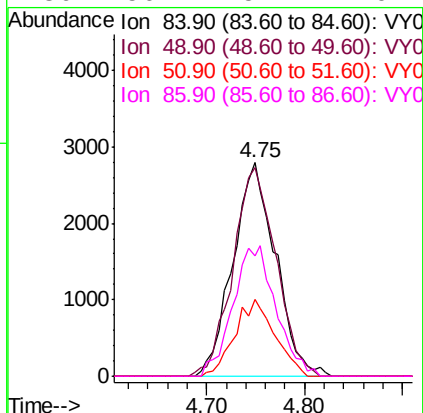
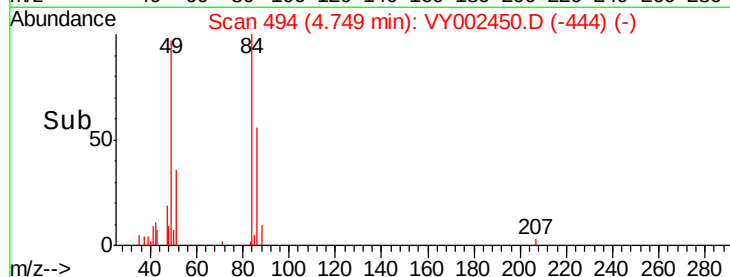
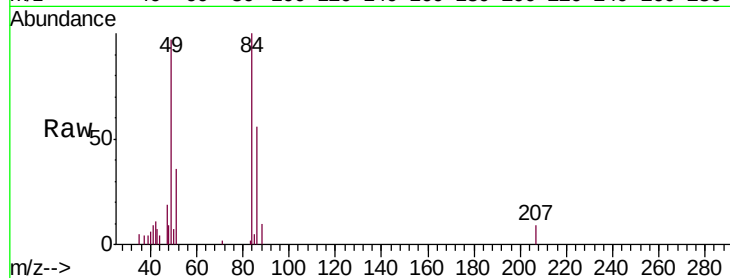




#20
Methylene Chloride
Concen: 3.749 ug/l
RT: 4.75 min Scan# 494
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

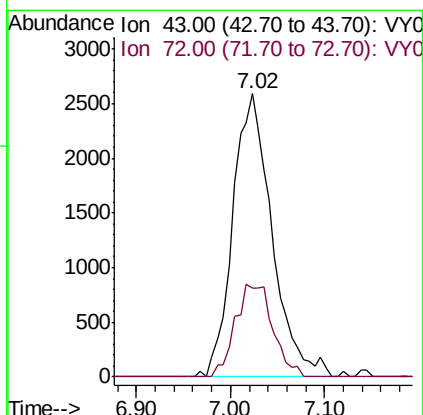
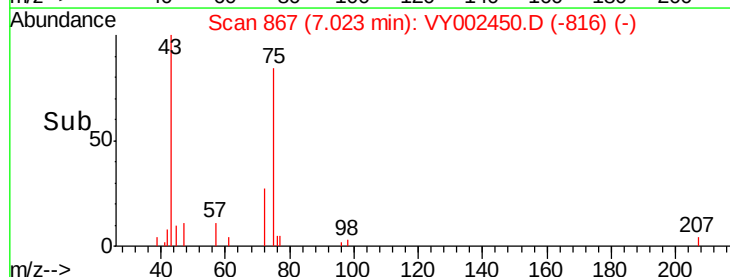
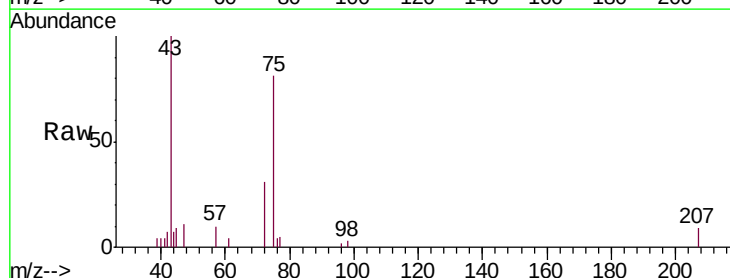
Instrument :
MSVOA_Y
ClientSampleId :
TP-17-(1-2)

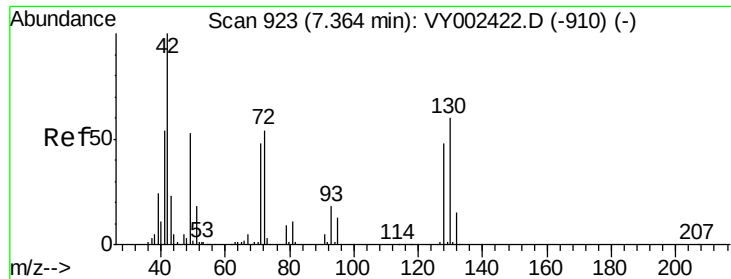
Tgt Ion:	84	Resp:	8476
Ion	Ratio	Lower	Upper
84	100		
49	97.5	81.0	121.6
51	36.1	24.9	37.3
86	56.2	52.7	79.1



#25
2-Butanone
Concen: 13.044 ug/l
RT: 7.02 min Scan# 867
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Tgt Ion:	43	Resp:	7512
Ion	Ratio	Lower	Upper
43	100		
72	31.2	27.0	40.6

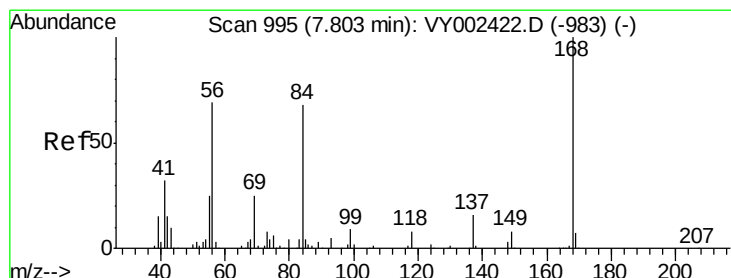
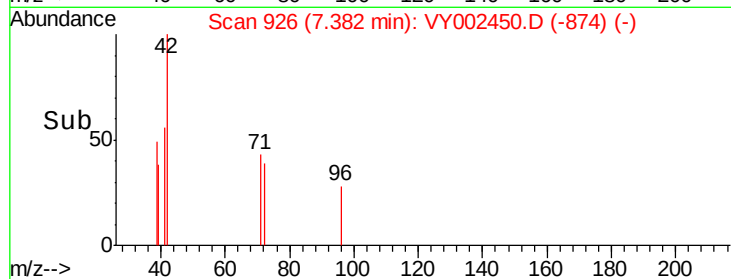
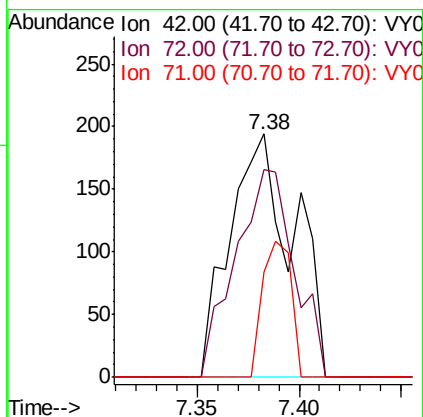
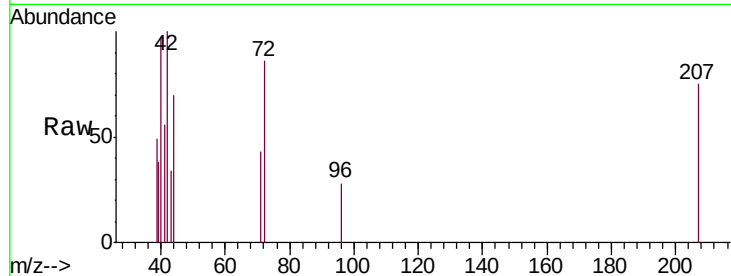




#29
Tetrahydrofuran
Concen: 1.145 ug/l
RT: 7.38 min Scan# 926
Delta R.T. 0.02 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

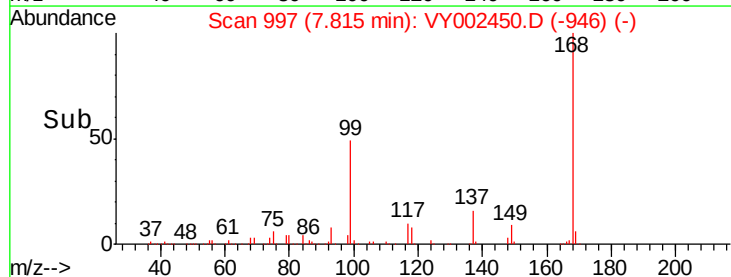
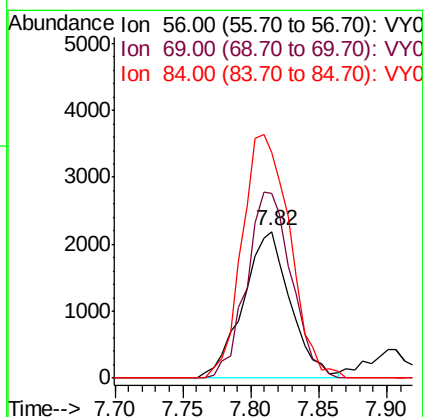
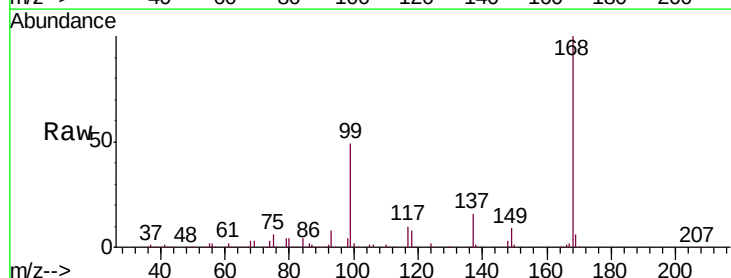
Instrument :
MSVOA_Y
ClientSampled :
TP-17-(1-2)

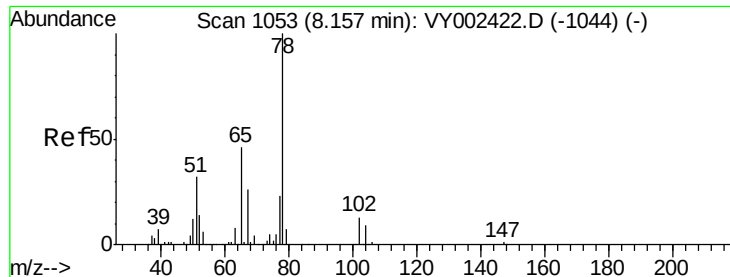
Tgt Ion: 42 Resp: 423
Ion Ratio Lower Upper
42 100
72 78.5 44.6 67.0#
71 25.1 40.6 60.8#



#31
Cyclohexane
Concen: 1.698 ug/l
RT: 7.82 min Scan# 997
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Tgt Ion: 56 Resp: 5311
Ion Ratio Lower Upper
56 100
69 126.3 29.1 43.7#
84 153.6 79.4 119.2#

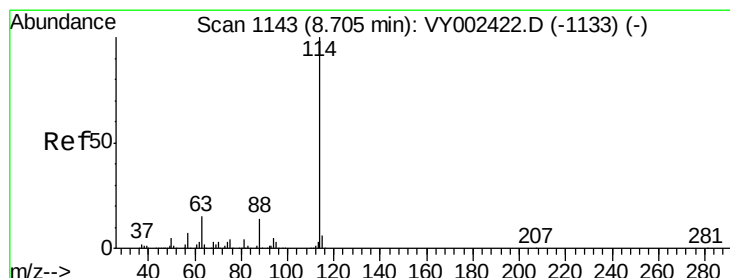
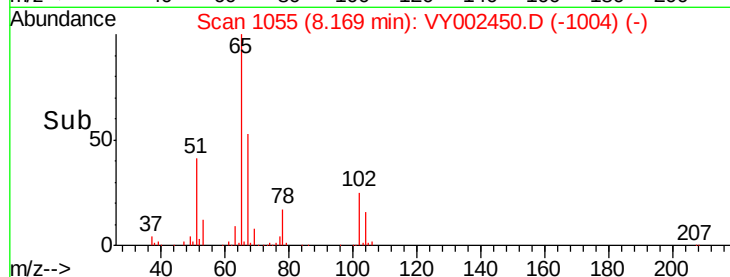
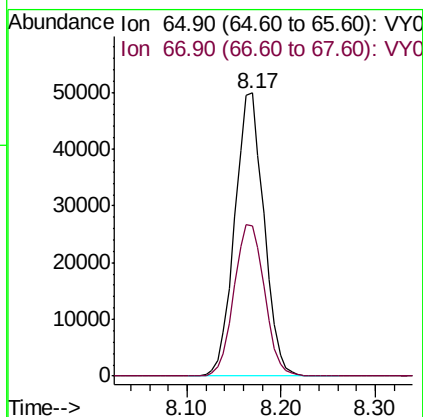
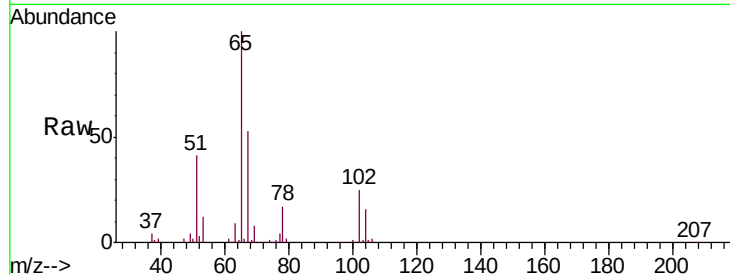




#33
 1,2-Dichloroethane-d4
 Concen: 71.399 ug/l
 RT: 8.17 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VY002450.D
 Acq: 21 Apr 2020 21:38

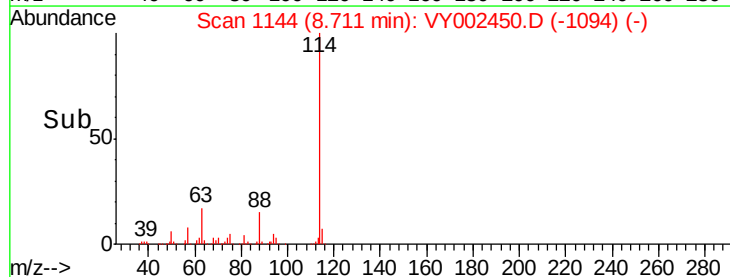
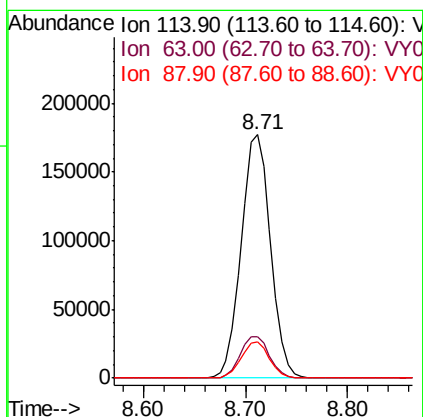
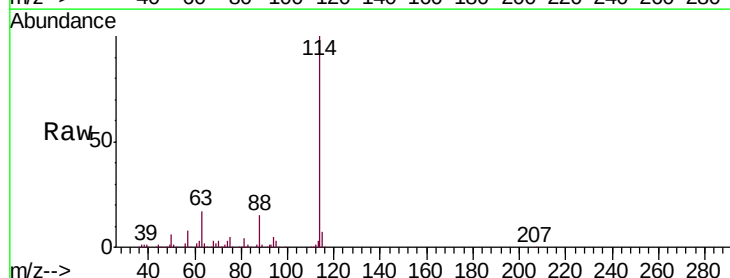
Instrument :
 MSVOA_Y
 ClientSampled :
 TP-17-(1-2)

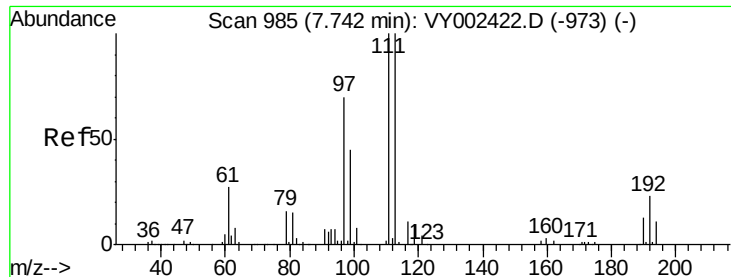
Tgt Ion: 65 Resp: 107948
 Ion Ratio Lower Upper
 65 100
 67 55.9 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.01 min
 Lab File: VY002450.D
 Acq: 21 Apr 2020 21:38

Tgt Ion: 114 Resp: 353825
 Ion Ratio Lower Upper
 114 100
 63 16.8 0.0 31.0
 88 15.1 0.0 28.2

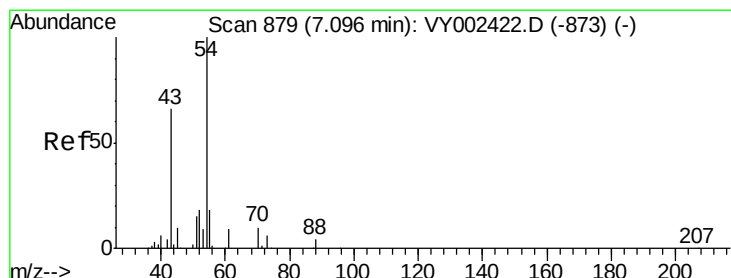
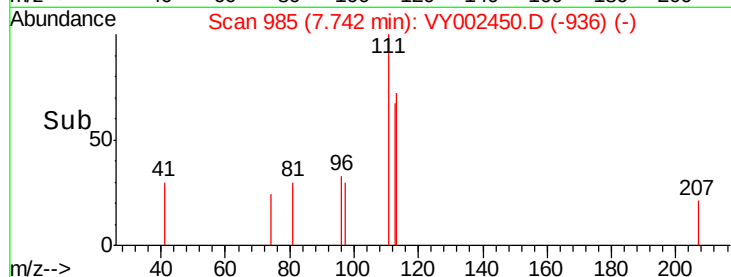
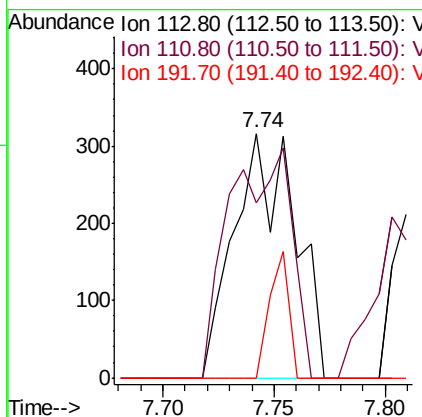
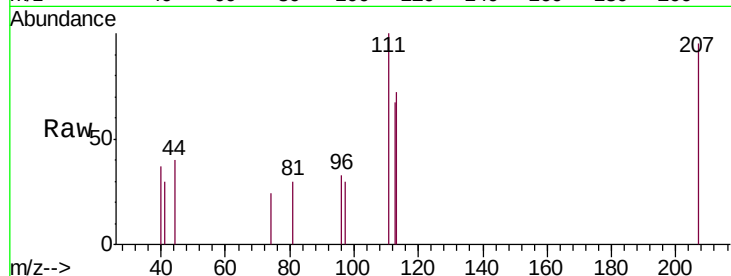




#35
 Dibromofluoromethane
 Concen: 0.321 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. -0.00 min
 Lab File: VY002450.D
 Acq: 21 Apr 2020 21:38

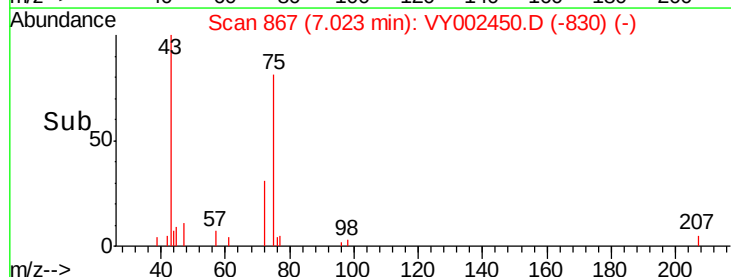
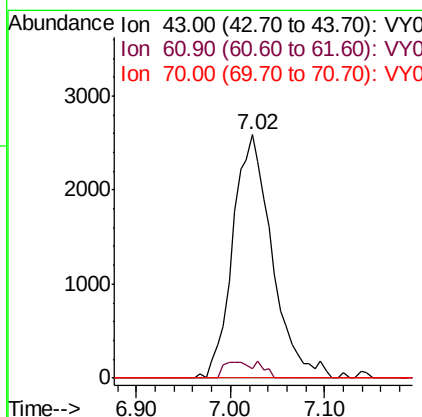
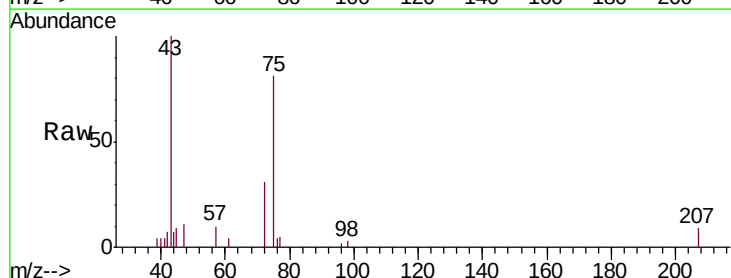
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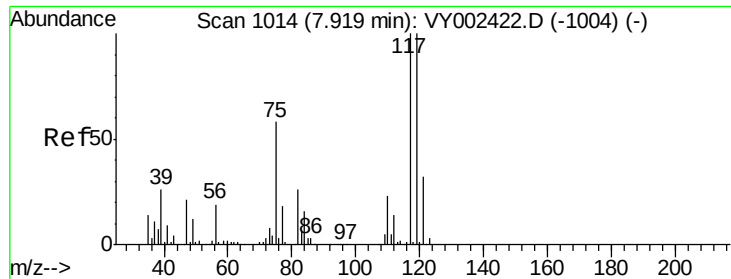
Tgt Ion: 113 Resp: 597
 Ion Ratio Lower Upper
 113 100
 111 53.6 81.7 122.5#
 192 16.6 17.8 26.6#



#37
 Ethyl Acetate
 Concen: 5.642 ug/l
 RT: 7.02 min Scan# 867
 Delta R.T. -0.07 min
 Lab File: VY002450.D
 Acq: 21 Apr 2020 21:38

Tgt Ion: 43 Resp: 7512
 Ion Ratio Lower Upper
 43 100
 61 4.3 13.5 20.3#
 70 0.0 10.6 16.0#

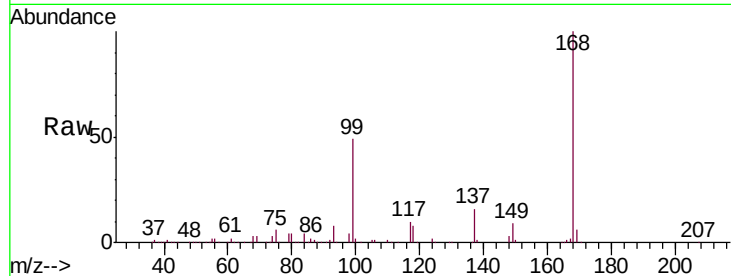




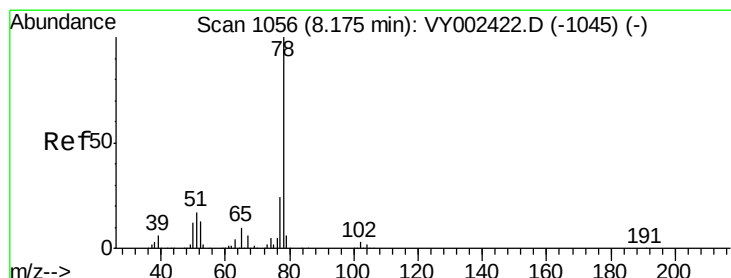
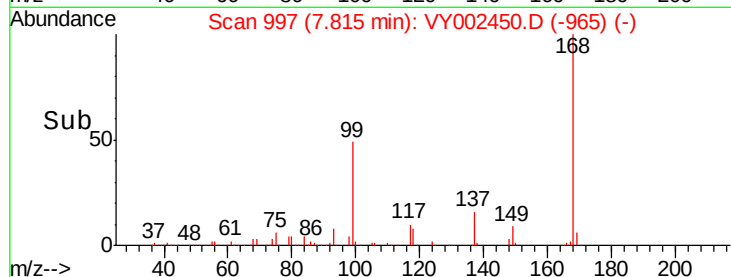
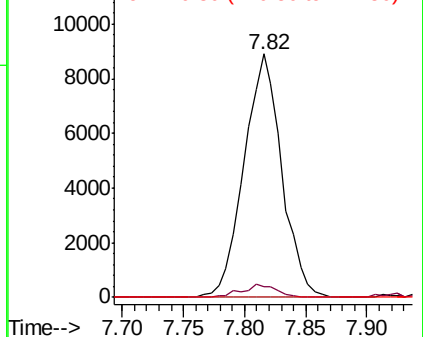
#38
Carbon Tetrachloride
Concen: 6.671 ug/l
RT: 7.82 min Scan# 997
Delta R.T. -0.10 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Instrument :
MSVOA_Y
ClientSampleId :
TP-17-(1-2)

Tgt Ion:117 Resp: 19130
Ion Ratio Lower Upper
117 100
119 4.5 79.6 119.4#
121 0.0 25.4 38.2#

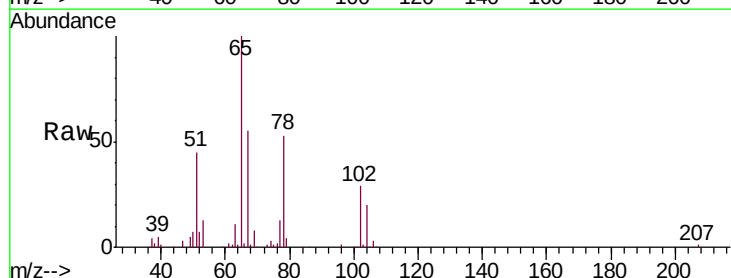


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

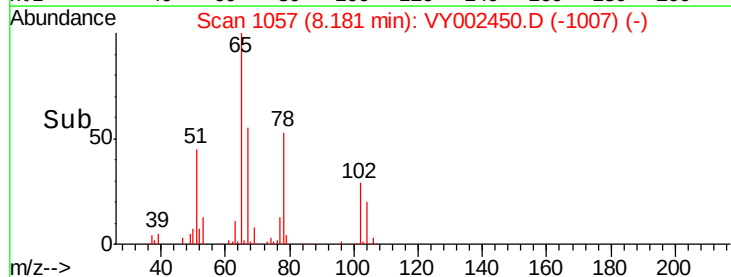
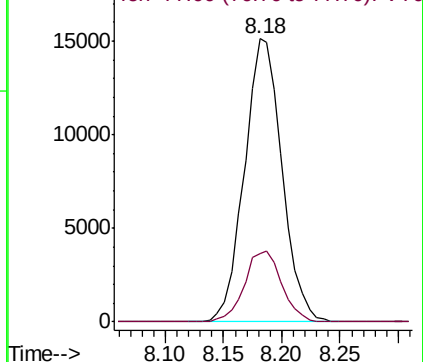


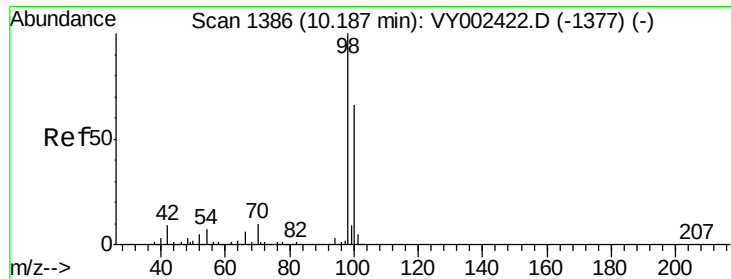
#40
Benzene
Concen: 3.877 ug/l
RT: 8.18 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Tgt Ion: 78 Resp: 33973
Ion Ratio Lower Upper
78 100
77 24.1 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VY0
Ion 77.00 (76.70 to 77.70): VY0





#50

Toluene-d8

Concen: 57.524 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampled :

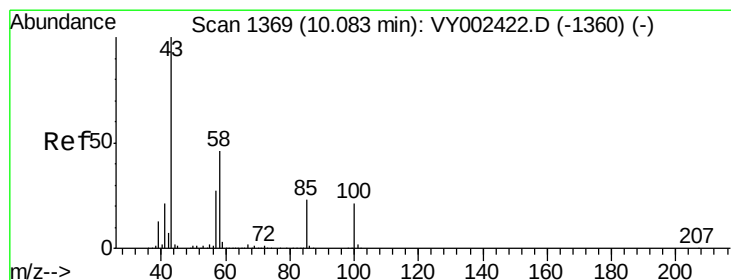
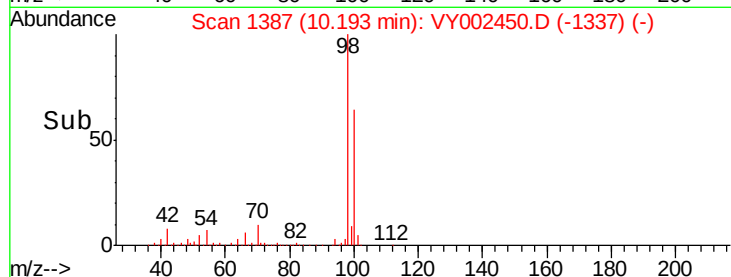
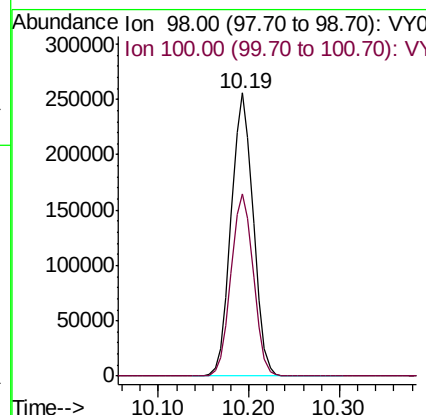
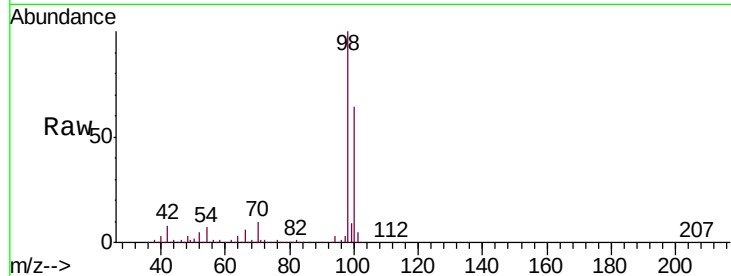
TP-17-(1-2)

Tgt Ion: 98 Resp: 432998

Ion Ratio Lower Upper

98 100

100 65.1 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 1.547 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VY002450.D

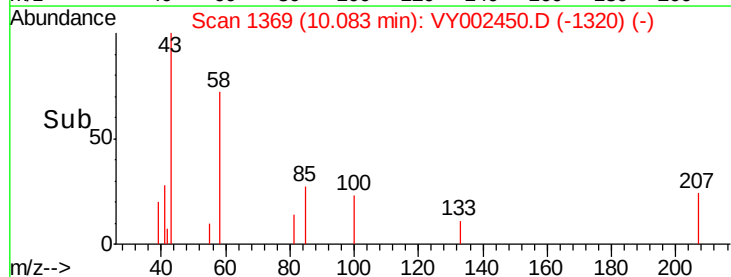
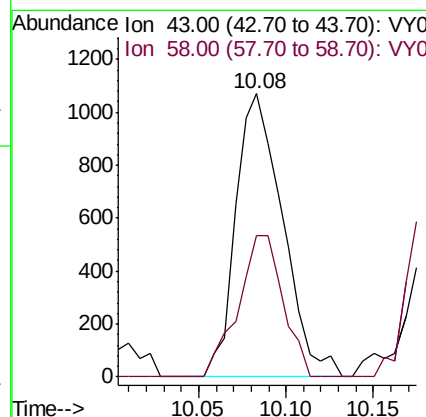
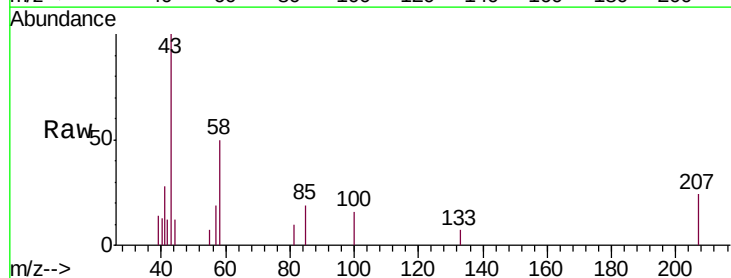
Acq: 21 Apr 2020 21:38

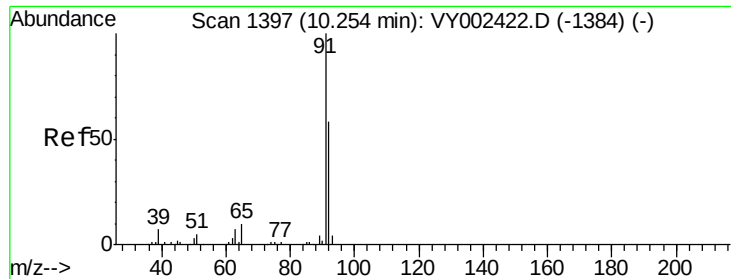
Tgt Ion: 43 Resp: 2006

Ion Ratio Lower Upper

43 100

58 47.6 36.8 55.2





#52

Toluene

Concen: 2.139 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampleId :

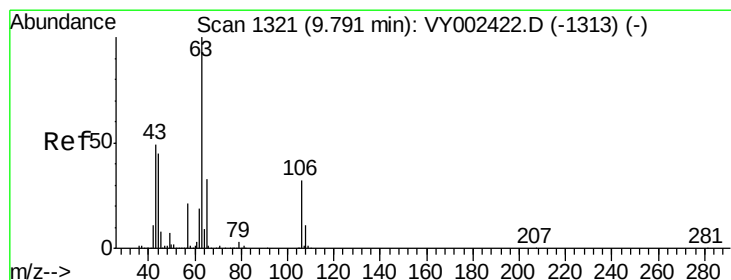
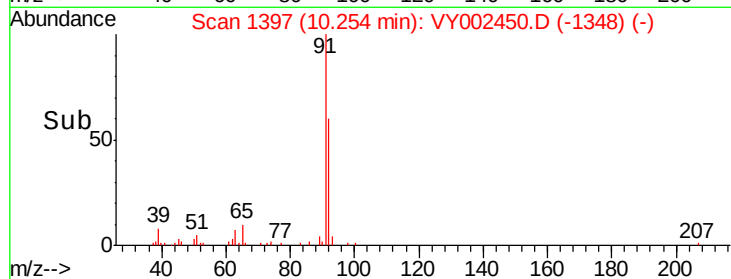
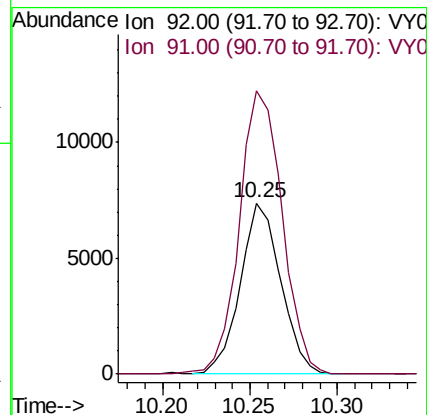
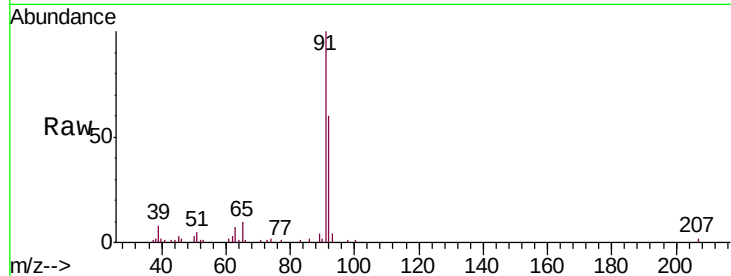
TP-17-(1-2)

Tgt Ion: 92 Resp: 11860

Ion Ratio Lower Upper

92 100

91 175.9 139.3 208.9



#58

2-Chloroethyl Vinyl ether

Concen: 1.946 ug/l

RT: 9.80 min Scan# 1322

Delta R.T. 0.01 min

Lab File: VY002450.D

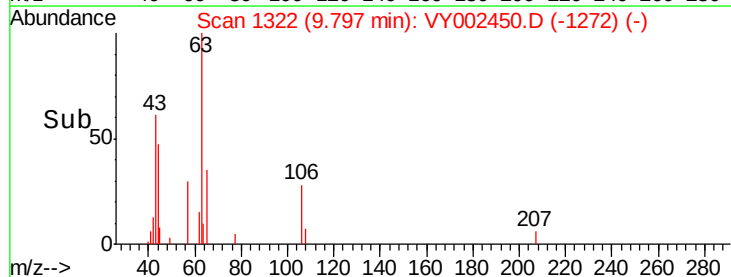
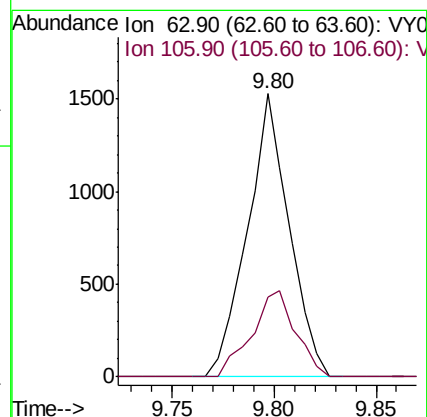
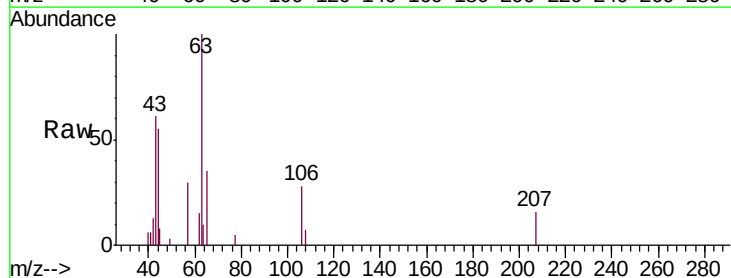
Acq: 21 Apr 2020 21:38

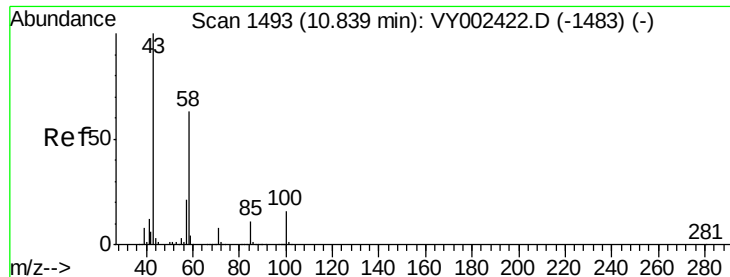
Tgt Ion: 63 Resp: 2176

Ion Ratio Lower Upper

63 100

106 31.9 26.2 39.4

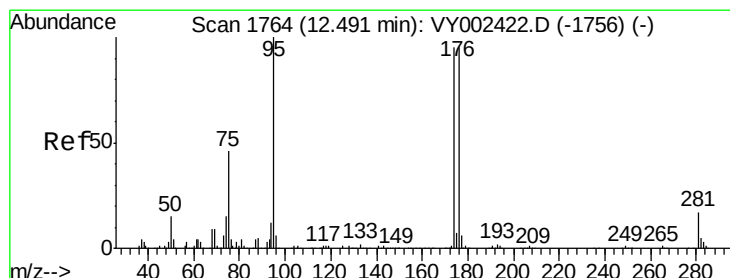
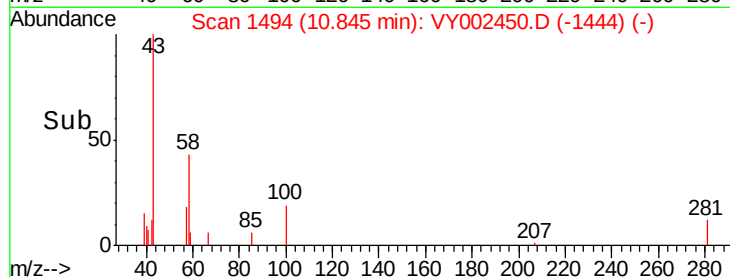
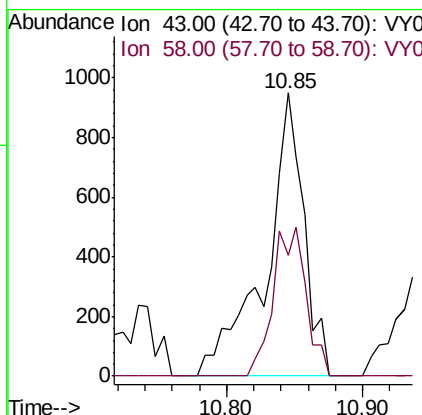
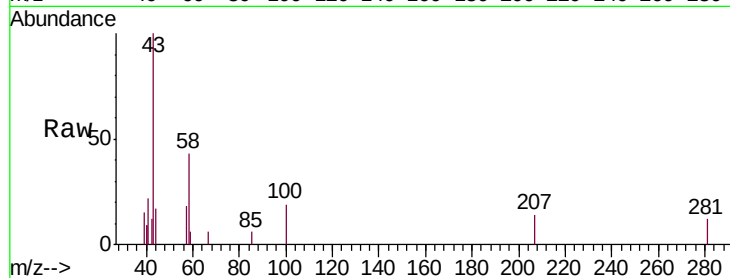




#59
2-Hexanone
Concen: 2.019 ug/l
RT: 10.85 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

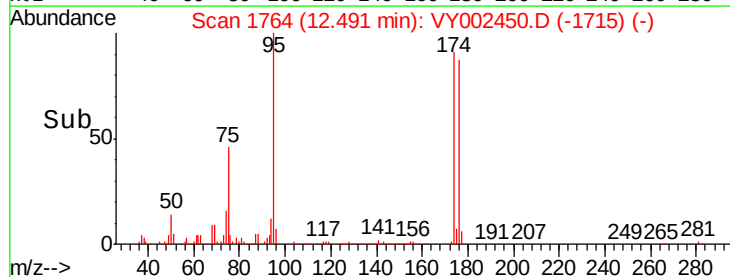
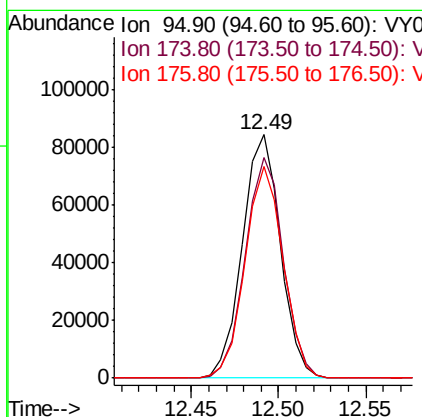
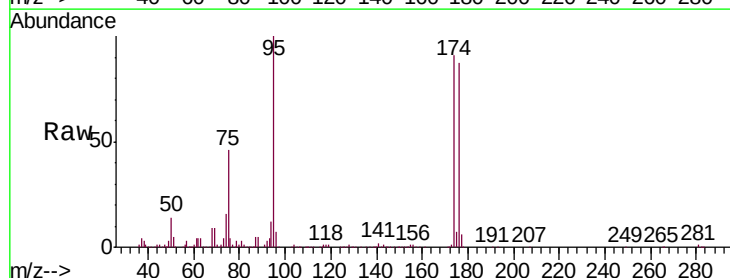
Instrument :
MSVOA_Y
ClientSampled :
TP-17-(1-2)

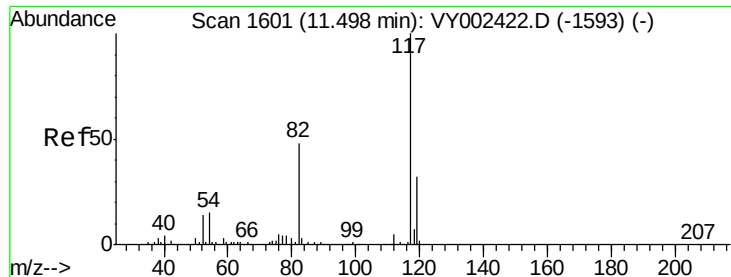
Tgt Ion: 43 Resp: 1858
Ion Ratio Lower Upper
43 100
58 45.2 32.5 97.4



#62
4-Bromofluorobenzene
Concen: 51.166 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. -0.00 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Tgt Ion: 95 Resp: 127157
Ion Ratio Lower Upper
95 100
174 91.0 0.0 185.8
176 87.3 0.0 181.2

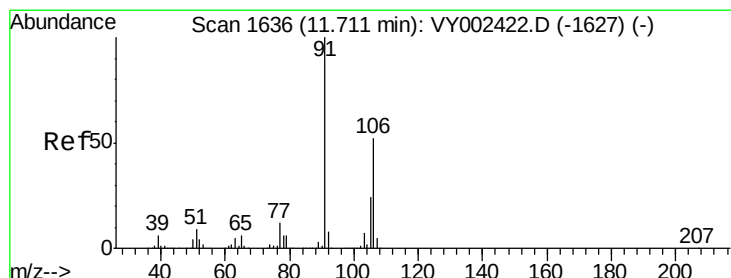
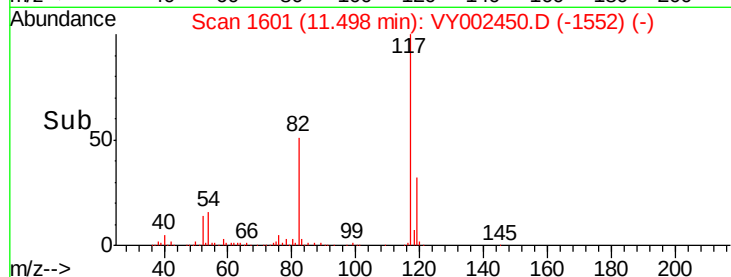
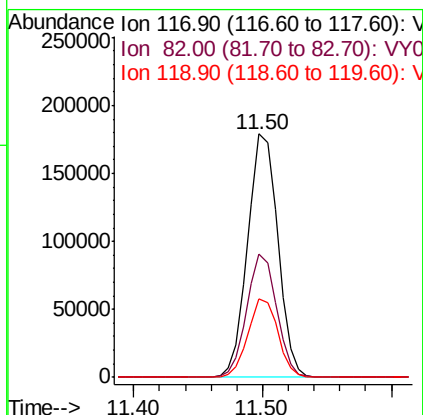
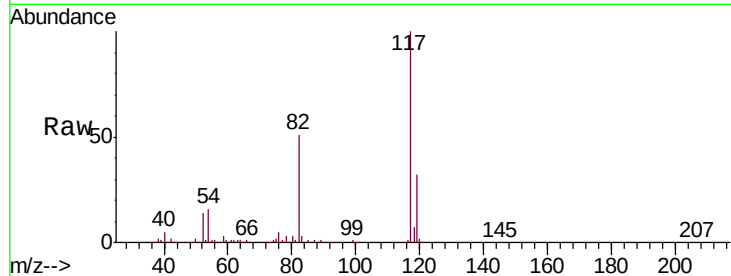




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

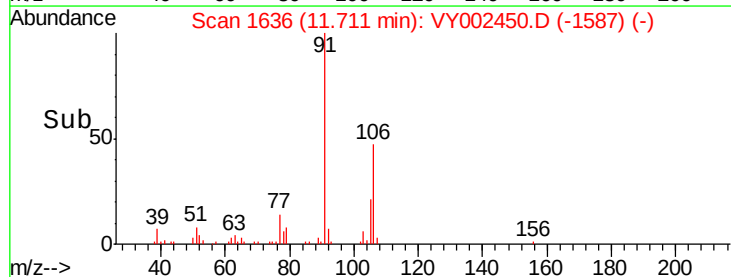
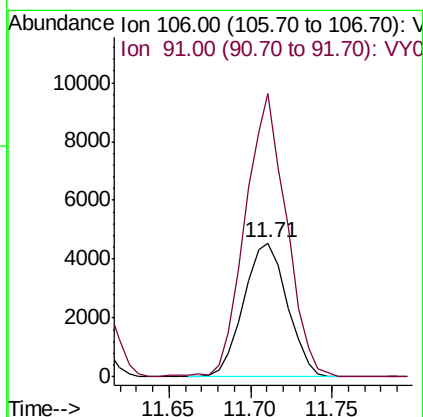
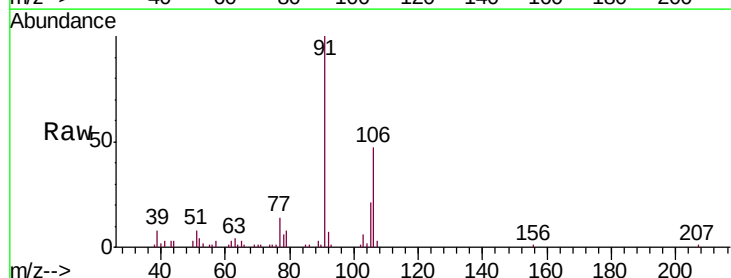
Instrument :
MSVOA_Y
ClientSampleId :
TP-17-(1-2)

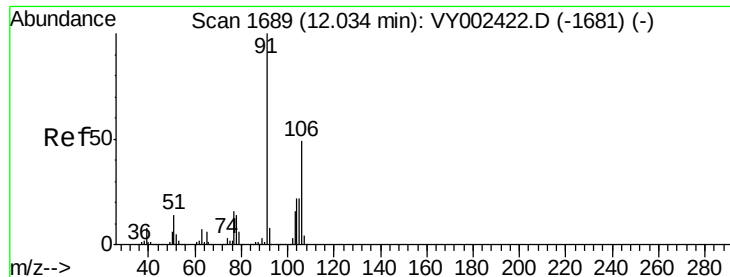
Tgt Ion:117 Resp: 289819
Ion Ratio Lower Upper
117 100
82 50.6 38.4 57.6
119 32.2 25.3 37.9



#68
m/p-Xylenes
Concen: 2.276 ug/l
RT: 11.71 min Scan# 1636
Delta R.T. -0.00 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Tgt Ion:106 Resp: 8458
Ion Ratio Lower Upper
106 100
91 199.5 153.6 230.4

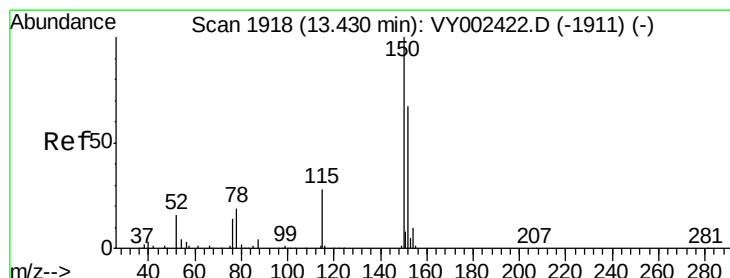
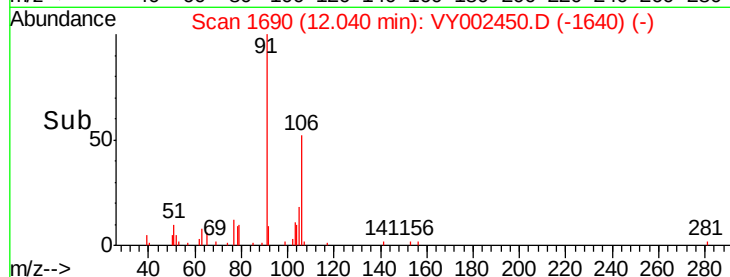
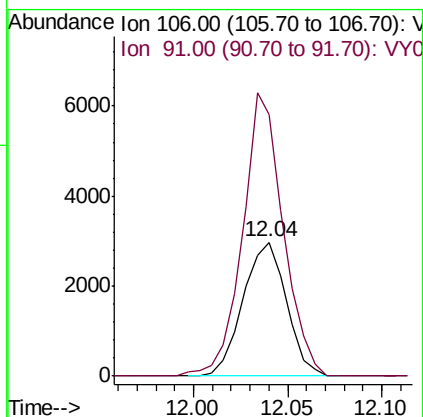
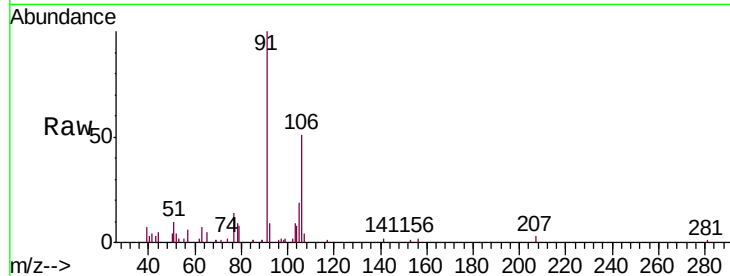




#69
o-Xylene
Concen: 1.353 ug/l
RT: 12.04 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

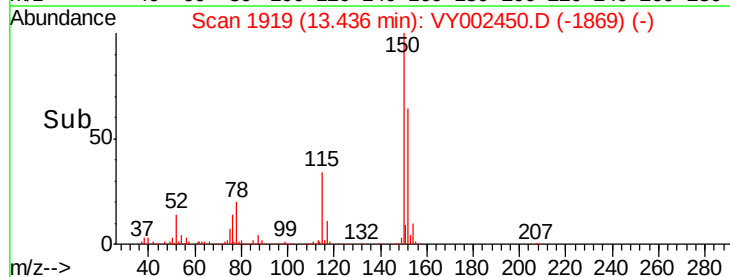
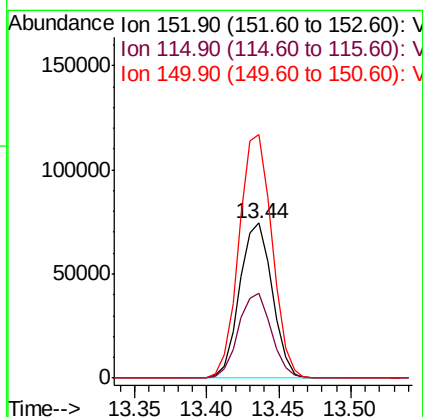
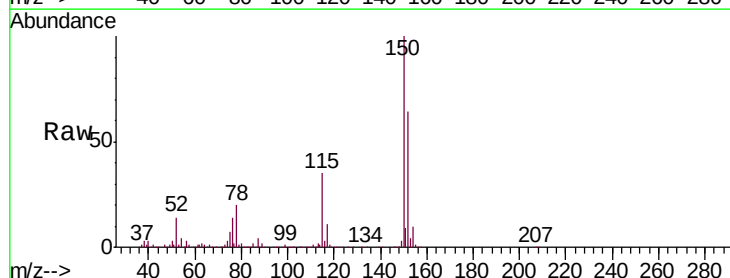
Instrument :
MSVOA_Y
ClientSampleId :
TP-17-(1-2)

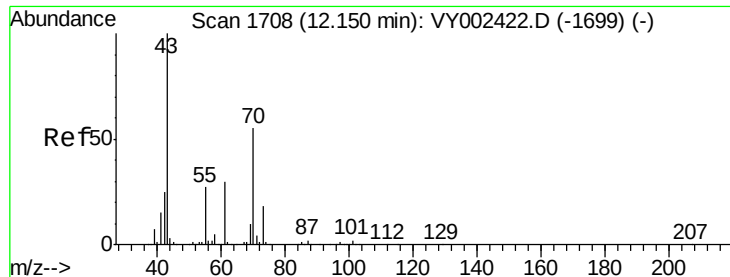
Tgt Ion:106 Resp: 4738
Ion Ratio Lower Upper
106 100
91 198.1 100.4 301.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.01 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Tgt Ion:152 Resp: 117382
Ion Ratio Lower Upper
152 100
115 56.2 27.3 81.8
150 158.3 0.0 344.0





#74

N-amyI acetate

Concen: 1.391 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampleId :

TP-17-(1-2)

Tgt Ion: 43 Resp: 2342

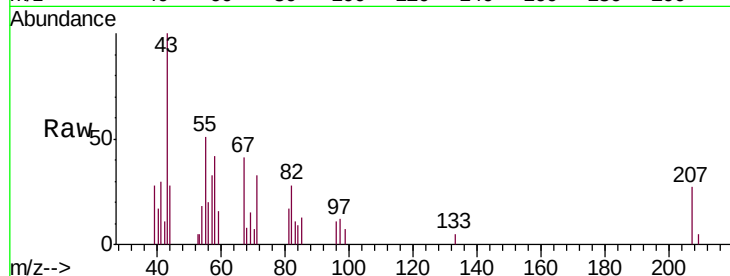
Ion Ratio Lower Upper

43 100

70 12.6 42.6 63.8#

55 46.7 21.0 31.4#

61 0.0 23.7 35.5#

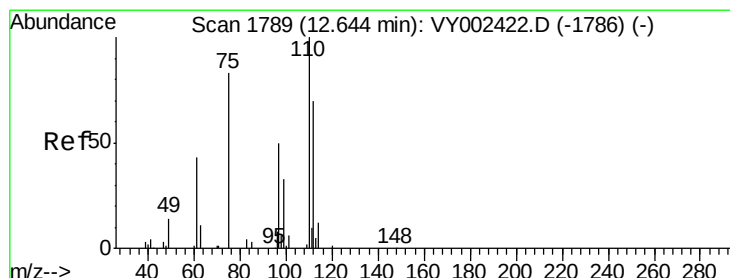
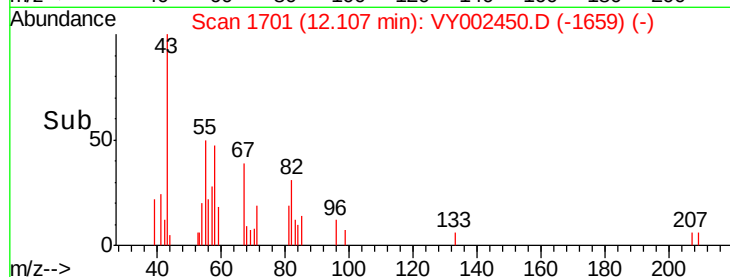
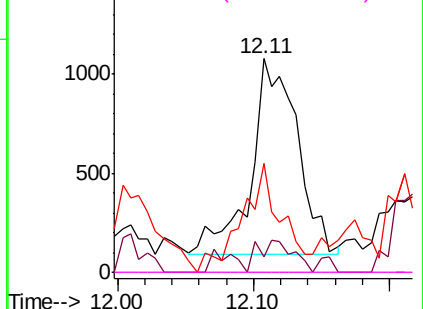


Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 56.107 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002450.D

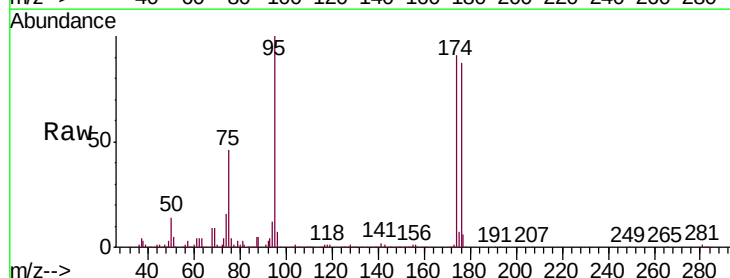
Acq: 21 Apr 2020 21:38

Tgt Ion: 75 Resp: 58021

Ion Ratio Lower Upper

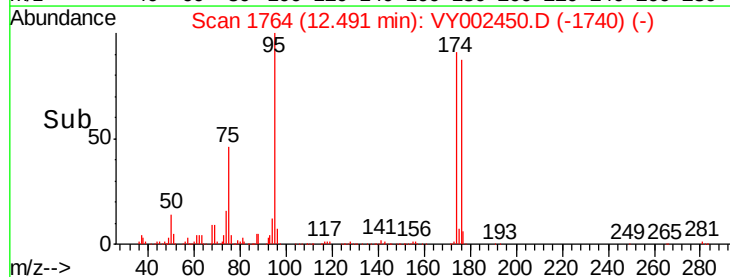
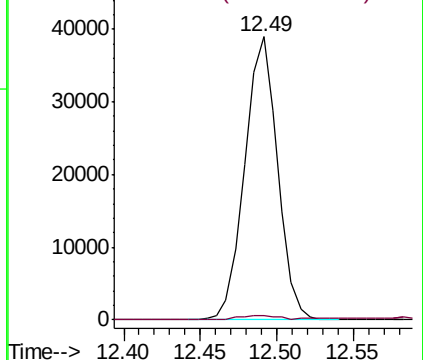
75 100

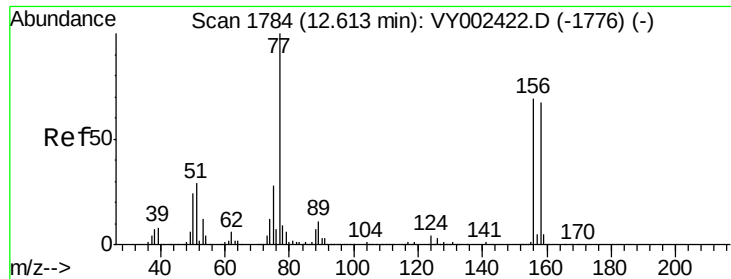
77 2.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 5.073 ug/l

RT: 12.54 min Scan# 1772

Delta R.T. -0.07 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampled :

TP-17-(1-2)

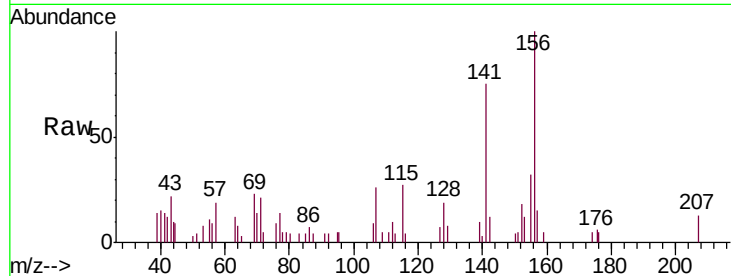
Tgt Ion:156 Resp: 9845

Ion Ratio Lower Upper

156 100

77 0.5 80.2 240.6#

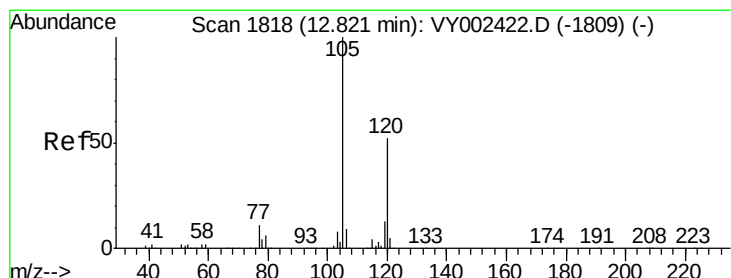
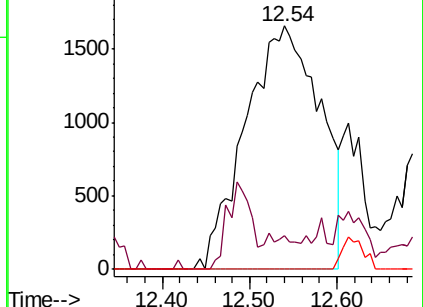
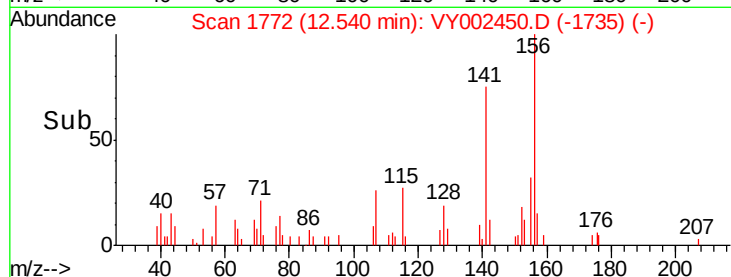
158 0.0 48.4 145.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 1.117 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VY002450.D

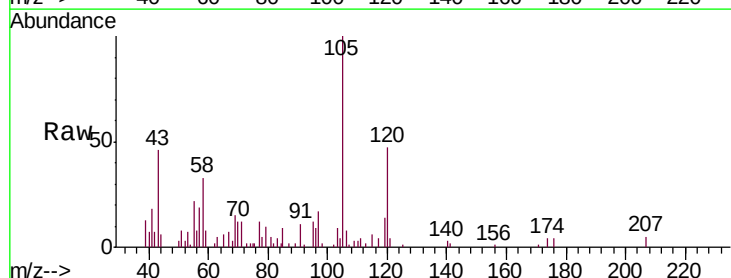
Acq: 21 Apr 2020 21:38

Tgt Ion:105 Resp: 7096

Ion Ratio Lower Upper

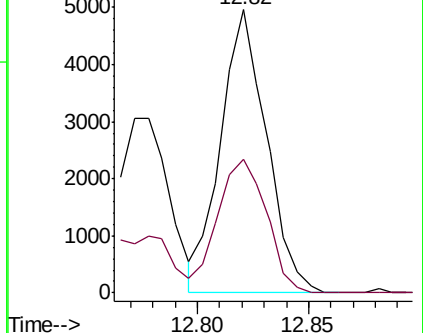
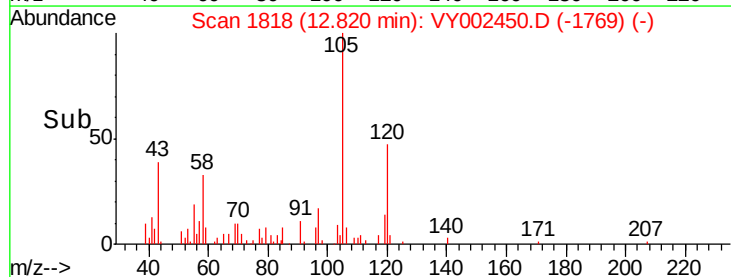
105 100

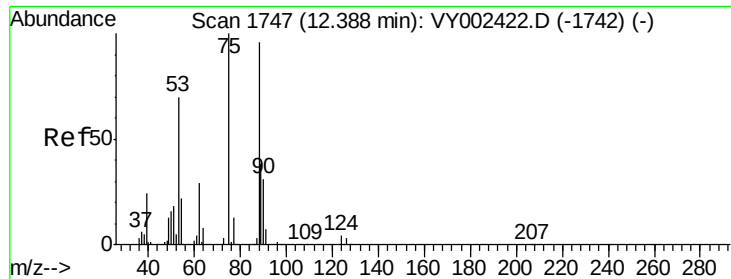
120 50.2 25.9 77.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.348 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002450.D

Acq: 21 Apr 2020 21:38

Instrument :

MSVOA_Y

ClientSampleId :

TP-17-(1-2)

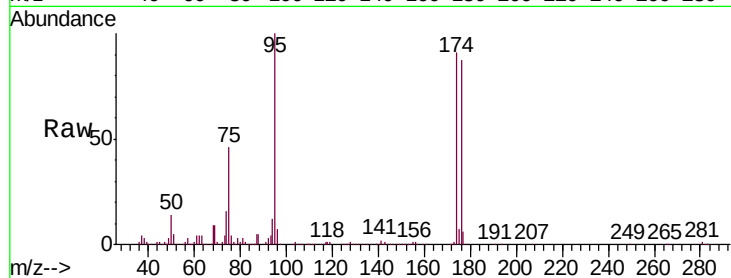
Tgt Ion: 75 Resp: 58021

Ion Ratio Lower Upper

75 100

53 0.0 58.7 88.1#

89 0.0 37.9 56.9#

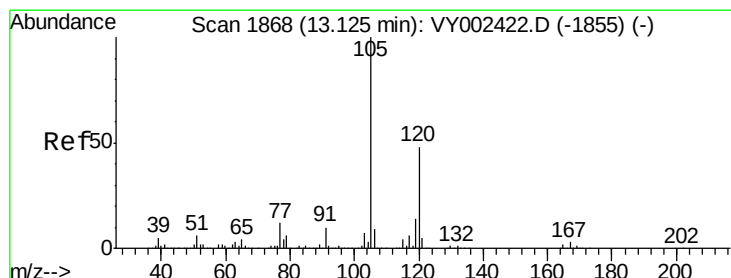
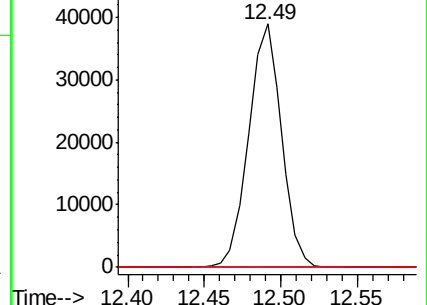
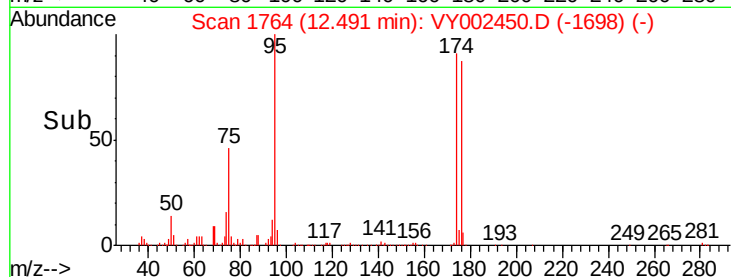


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

12.49



#84

1,2,4-Trimethylbenzene

Concen: 3.314 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY002450.D

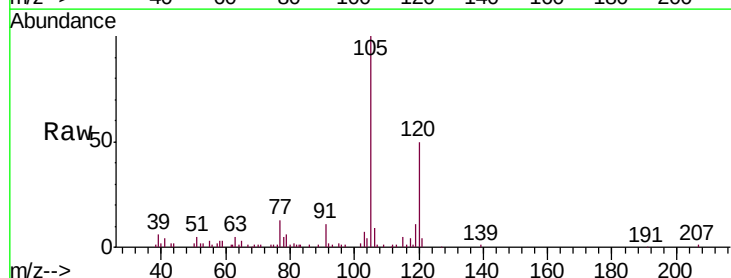
Acq: 21 Apr 2020 21:38

Tgt Ion:105 Resp: 21086

Ion Ratio Lower Upper

105 100

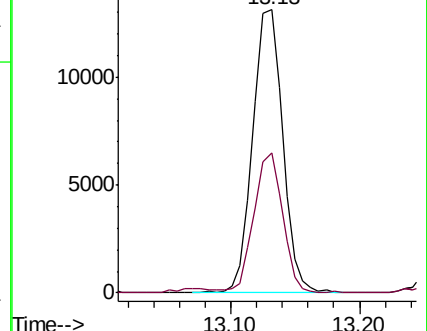
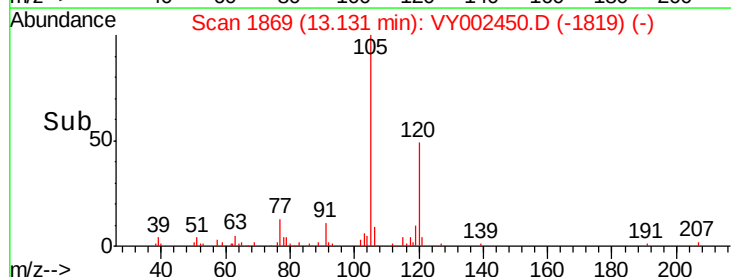
120 47.3 23.9 71.7

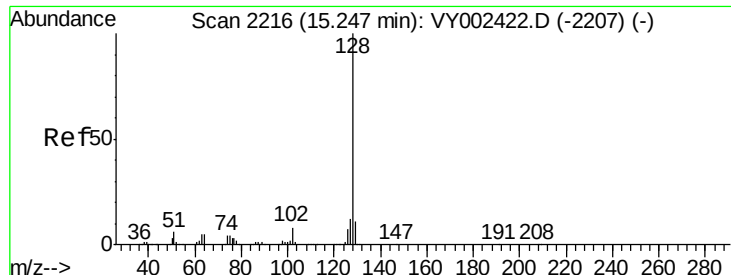


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.13





#95
Naphthalene
Concen: 24.208 ug/l
RT: 15.25 min Scan# 2216
Delta R.T. -0.00 min
Lab File: VY002450.D
Acq: 21 Apr 2020 21:38

Instrument :
MSVOA_Y
ClientSampleId :
TP-17-(1-2)

Tgt Ion:128 Resp: 111084
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 11.0 9.0 13.6

