

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020320\
 Data File : VY001476.D
 Acq On : 03 Feb 2020 16:29
 Operator : SY/MD
 Sample : L1383--01
 Misc : 6.62G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 04 04:21:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	205453	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.70	114	370752	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	335771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	149936	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	117968	52.77	ug/l	-0.01
Spiked Amount			Recovery	=	105.54%	
35) Dibromofluoromethane	7.74	113	112729	51.81	ug/l	-0.01
Spiked Amount			Recovery	=	103.62%	
50) Toluene-d8	10.19	98	441778	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
62) 4-Bromofluorobenzene	12.49	95	168048	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	

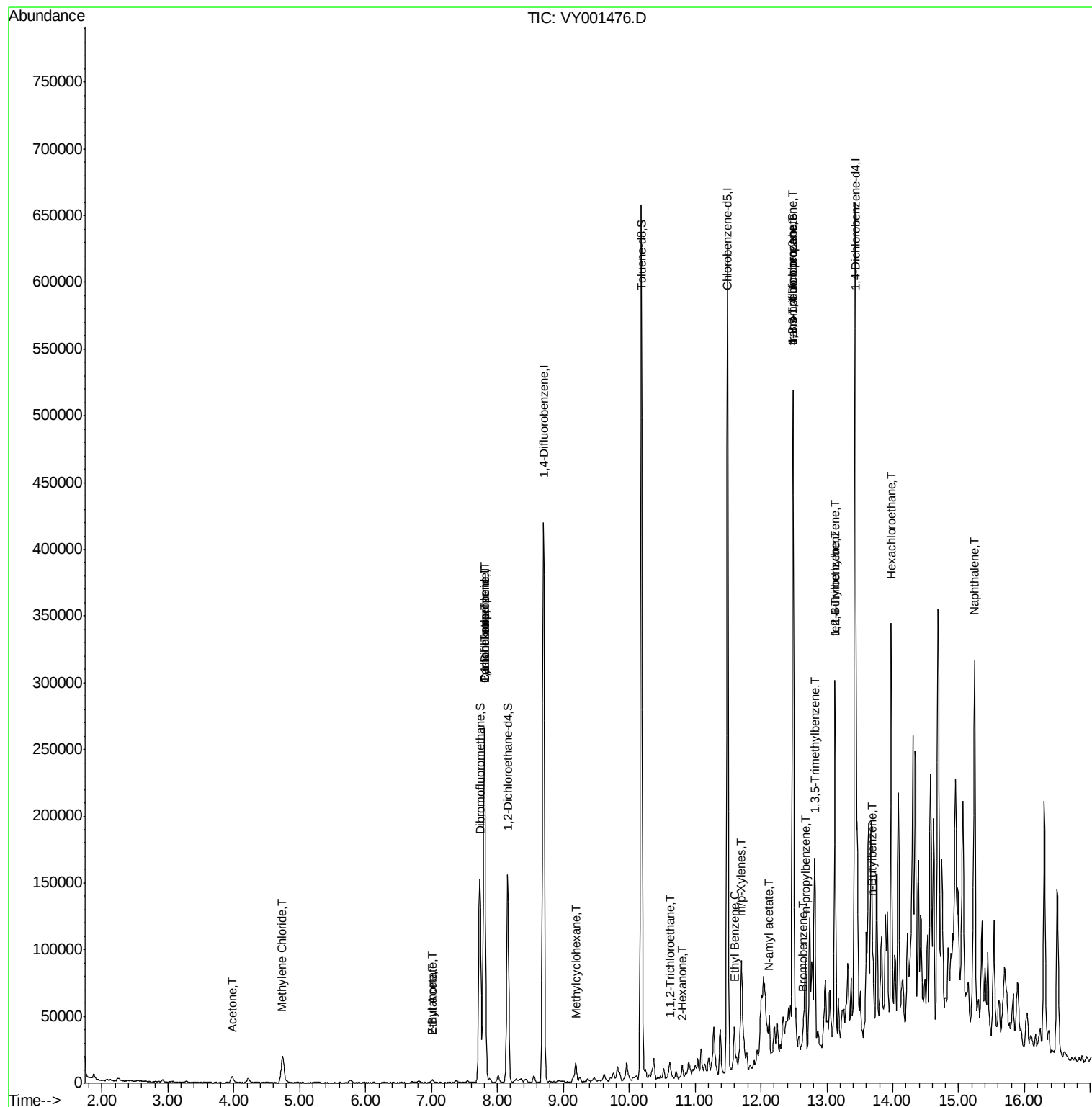
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.99	59	160	Below Cal	#	74
13) Acrolein	3.97	56	53	Below Cal	#	72
16) Acetone	3.97	43	7939	6.085	ug/l	100
20) Methylene Chloride	4.74	84	15218	1.392	ug/l	99
25) 2-Butanone	7.02	43	2504	2.573	ug/l	94
31) Cyclohexane	7.80	56	5234	1.211	ug/l #	27
36) 1,1-Dichloropropene	7.80	75	15685	4.478	ug/l #	50
37) Ethyl Acetate	7.02	43	2504	1.170	ug/l #	68
38) Carbon Tetrachloride	7.80	117	20181	6.465	ug/l #	16
39) Methylcyclohexane	9.19	83	6164	1.374	ug/l	92
55) 1,1,2-Trichloroethane	10.63	97	3732	1.774	ug/l #	22
59) 2-Hexanone	10.80	43	4272	2.863	ug/l #	34
67) Ethyl Benzene	11.60	91	19442	1.491	ug/l	100
68) m/p-Xylenes	11.70	106	21147	4.341	ug/l	99
74) N-amyl acetate	12.13	43	6695	1.729	ug/l #	43
76) 1,2,3-Trichloropropane	12.49	75	79212	43.843	ug/l #	100
77) Bromobenzene	12.63	156	3703	1.413	ug/l #	1
78) n-propylbenzene	12.67	91	50344	3.535	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	44706	4.527	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.49	75	79212	82.967	ug/l #	15
83) tert-Butylbenzene	13.13	119	16656	2.001	ug/l #	64
84) 1,2,4-Trimethylbenzene	13.13	105	145072	14.632	ug/l	100
89) n-Butylbenzene	13.70	91	26049	2.483	ug/l #	81
90) Hexachloroethane	13.98	117	13022	6.591	ug/l #	15
95) Naphthalene	15.24	128	211777	29.648	ug/l	99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 01:21:47 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.02 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

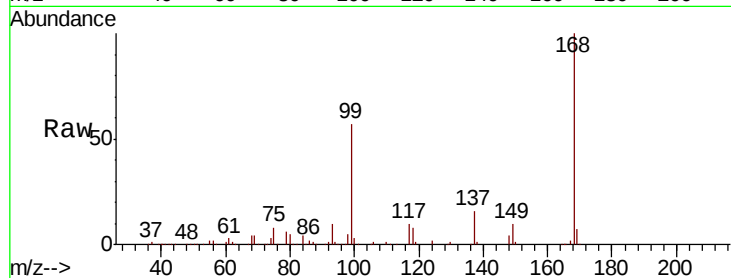
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 205453

Ion Ratio Lower Upper

168 100

99 57.4 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)

7.80

100000

80000

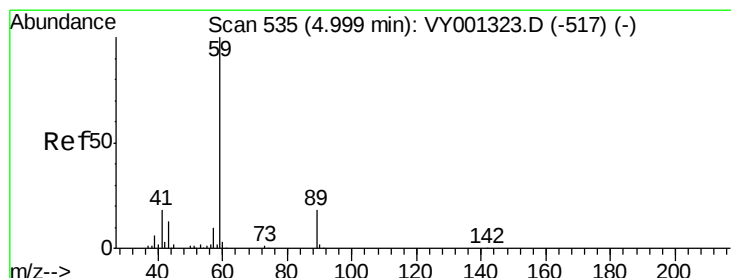
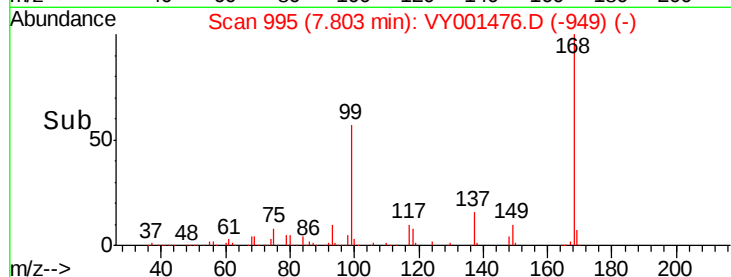
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.99 min Scan# 533

Delta R.T. -0.01 min

Lab File: VY001476.D

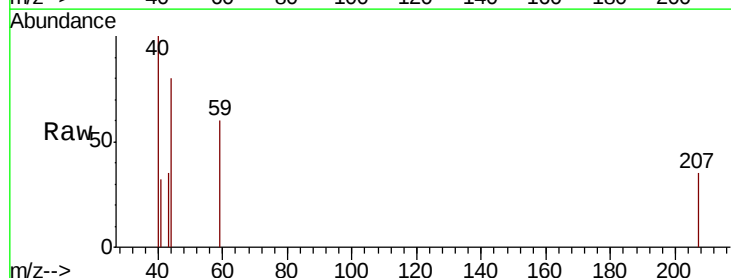
Acq: 03 Feb 2020 16:29

Tgt Ion: 59 Resp: 160

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001323.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY001323.D (-517) (-)

4.99

120

100

80

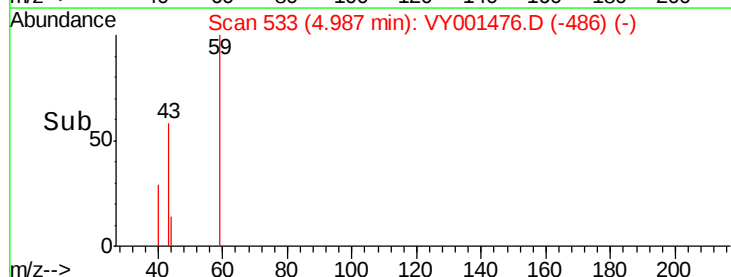
60

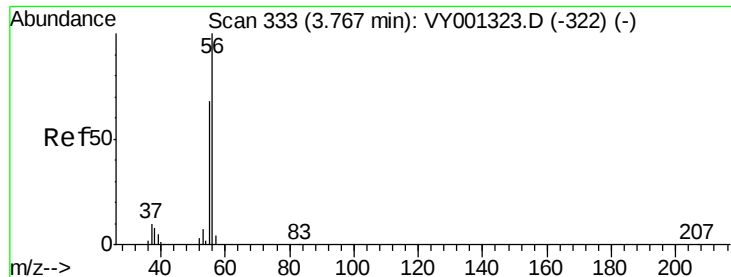
40

20

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.97 min Scan# 367

Delta R.T. 0.21 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

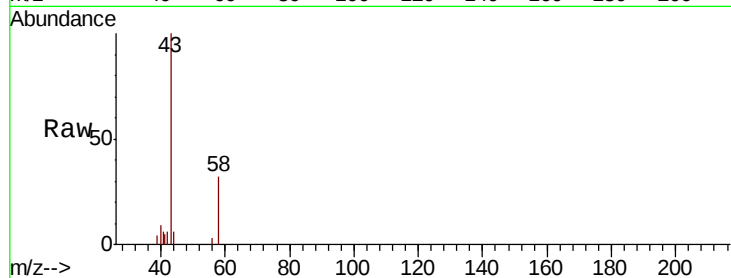
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 53

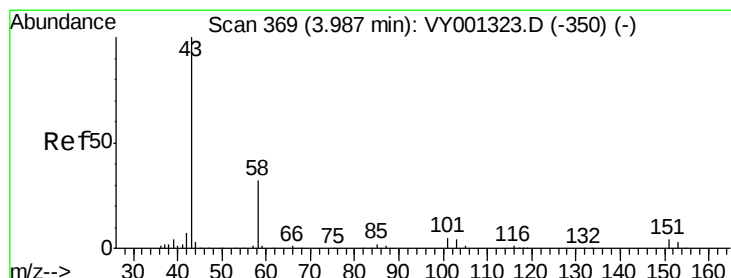
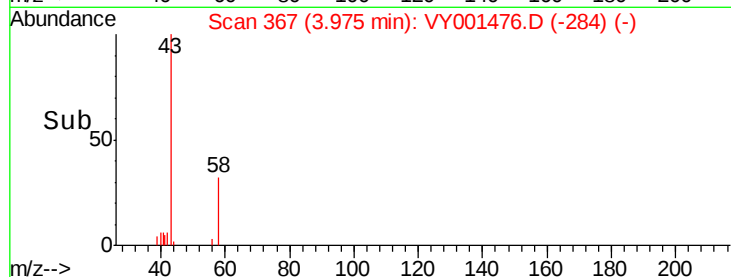
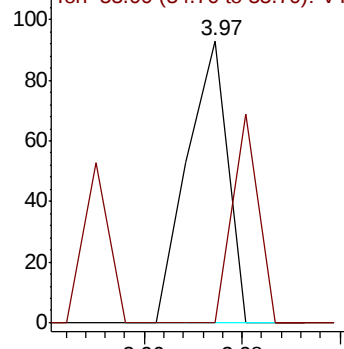
Ion Ratio Lower Upper

56 100

55 47.2 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 6.085 ug/l

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VY001476.D

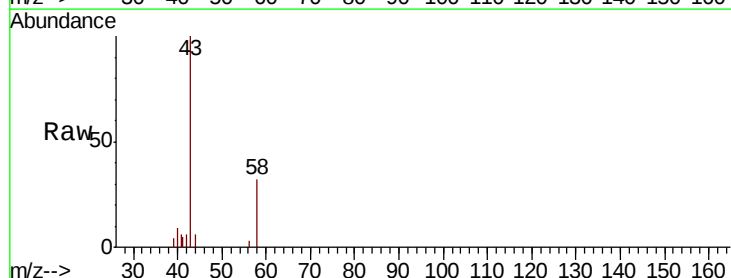
Acq: 03 Feb 2020 16:29

Tgt Ion: 43 Resp: 7939

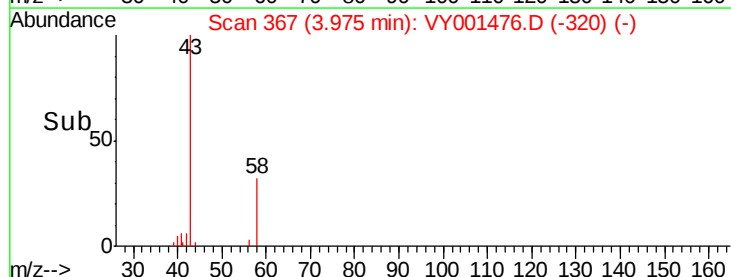
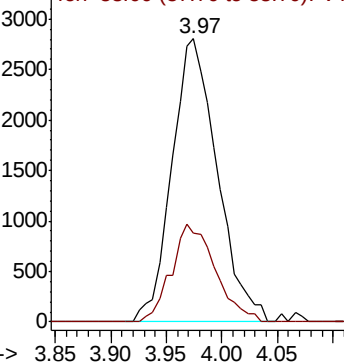
Ion Ratio Lower Upper

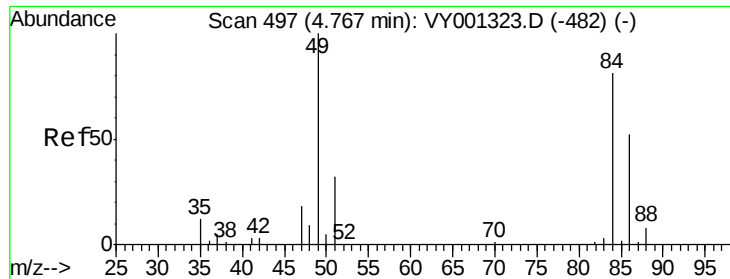
43 100

58 31.5 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

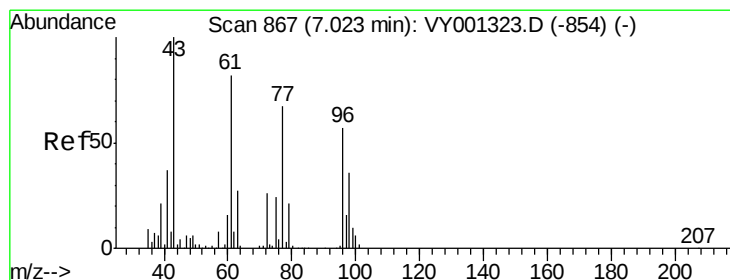
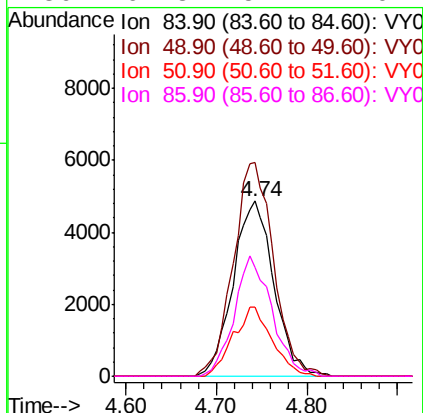
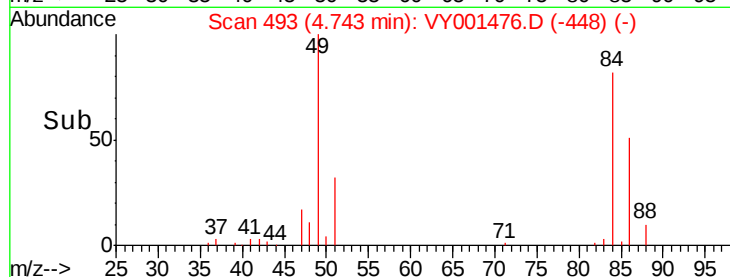
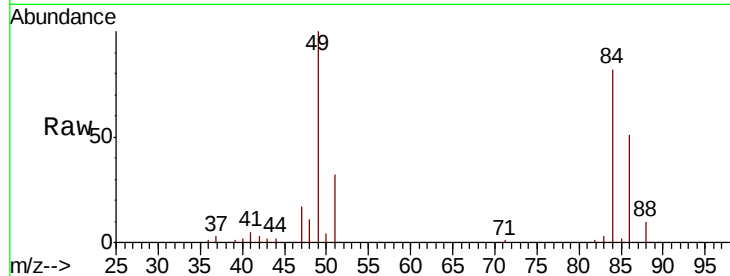




#20
Methvlene Chloride
Concen: 1.392 ug/l
RT: 4.74 min Scan# 493
Delta R.T. -0.02 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

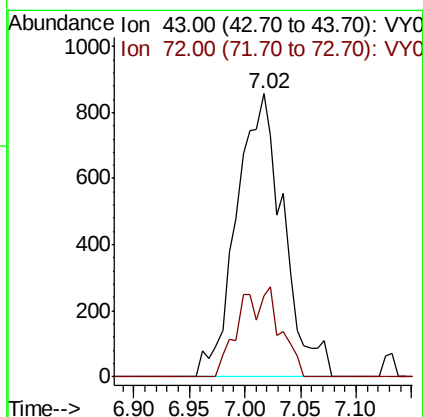
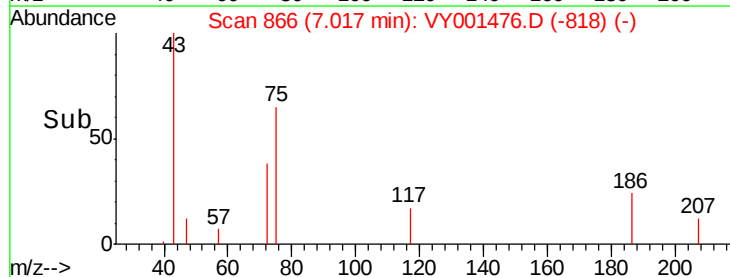
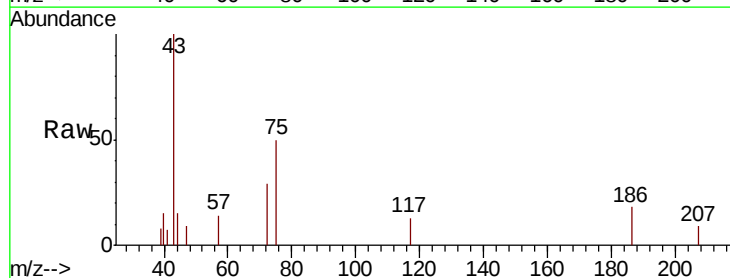
Instrument :
MSVOA_Y
ClientSampled :

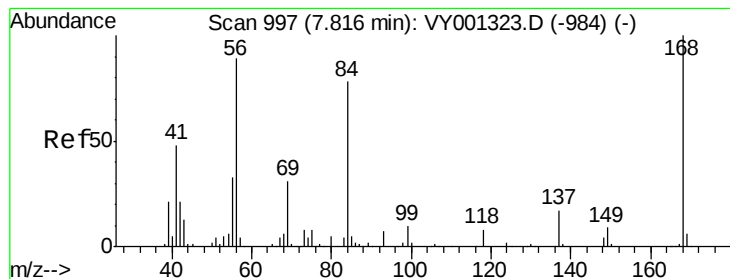
Tot Ion: 84 Resp: 15218
Ion Ratio Lower Upper
84 100
49 122.1 98.3 147.5
51 39.5 31.6 47.4
86 62.3 51.1 76.7



#25
2-Butanone
Concen: 2.573 ug/l
RT: 7.02 min Scan# 866
Delta R.T. -0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion: 43 Resp: 2504
Ion Ratio Lower Upper
43 100
72 28.8 20.6 31.0

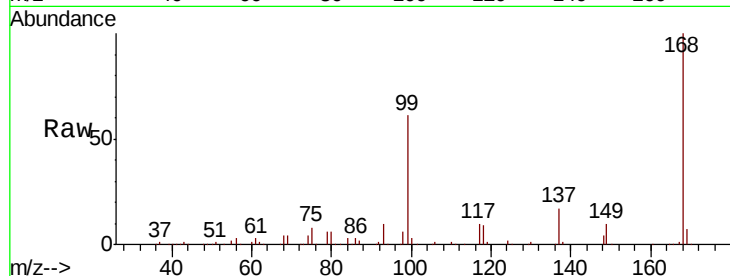




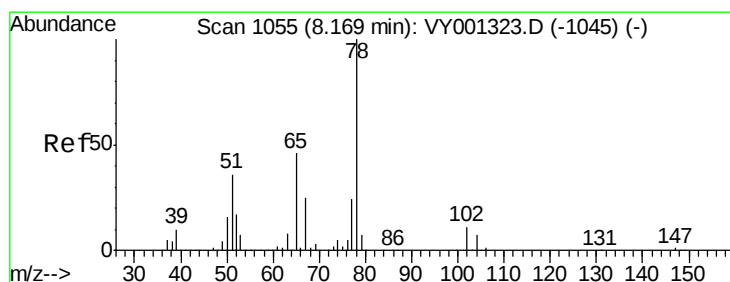
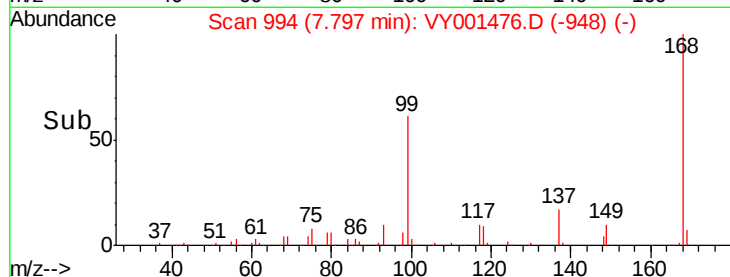
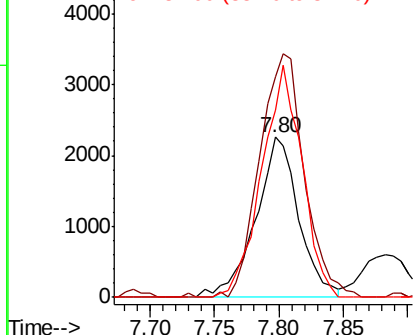
#31
Cyclohexane
Concen: 1.211 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.02 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 5234
Ion Ratio Lower Upper
56 100
69 134.8 27.6 41.4#
84 117.2 69.7 104.5#

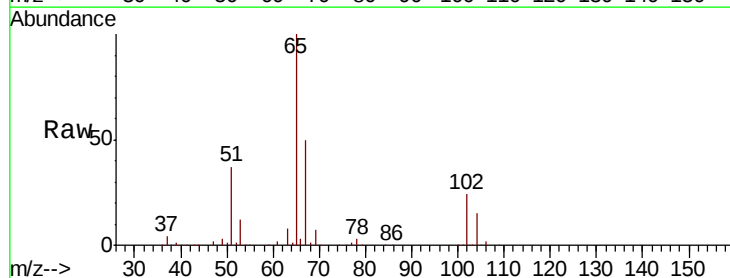


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

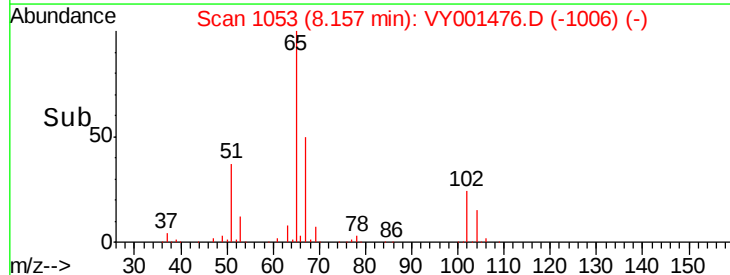
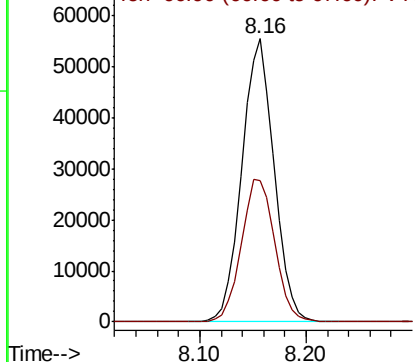


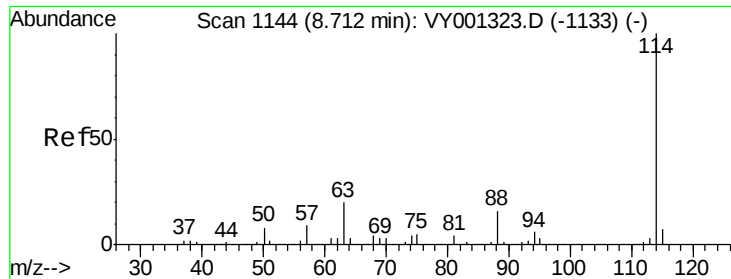
#33
1,2-Dichloroethane-d4
Concen: 52.768 ug/l
RT: 8.16 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion: 65 Resp: 117968
Ion Ratio Lower Upper
65 100
67 52.5 0.0 108.6



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

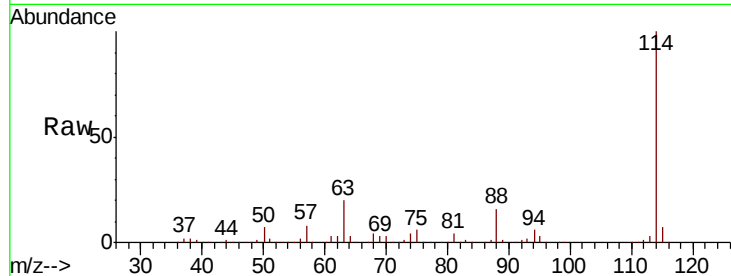




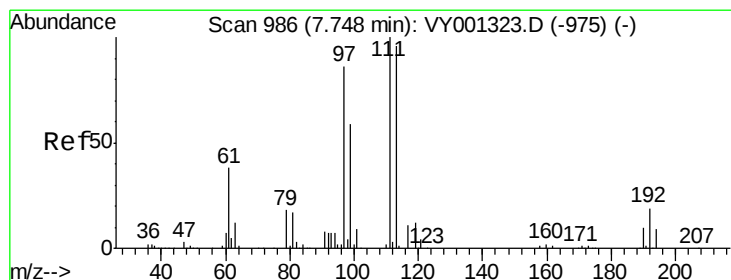
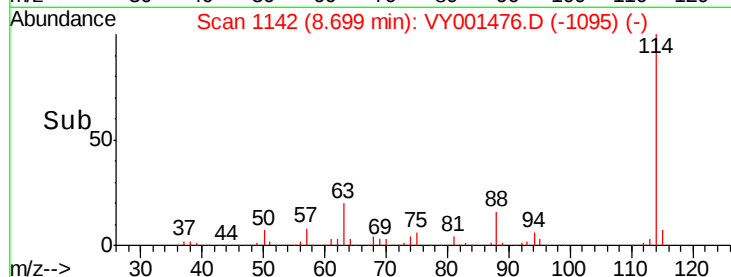
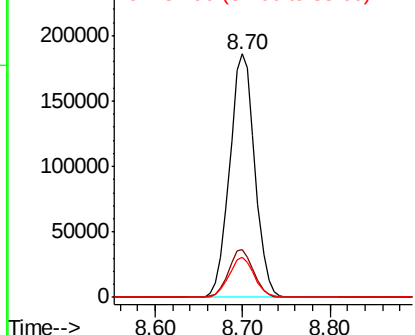
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY001476.D
 Acq: 03 Feb 2020 16:29

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.8
88	16.3	0.0	31.0

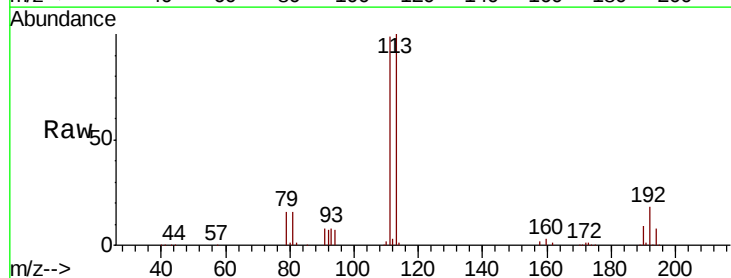


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

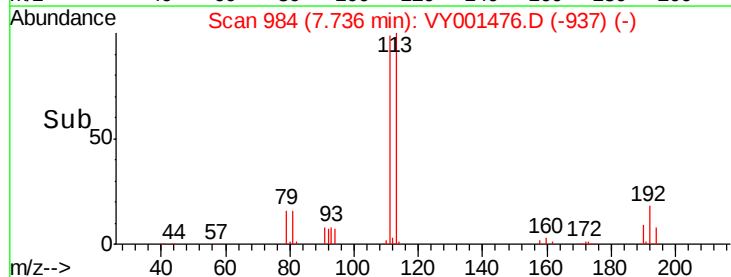
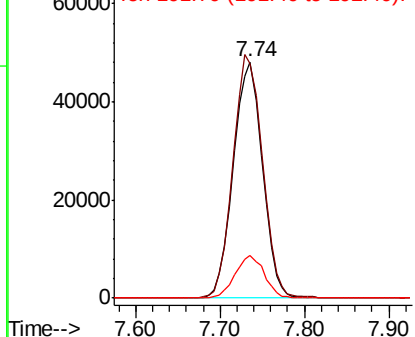


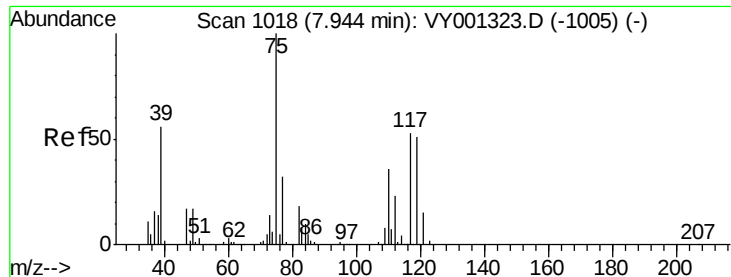
#35
 Dibromofluoromethane
 Concen: 51.806 ug/l
 RT: 7.74 min Scan# 984
 Delta R.T. -0.01 min
 Lab File: VY001476.D
 Acq: 03 Feb 2020 16:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.2	82.8	124.2
192	18.0	15.5	23.3



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

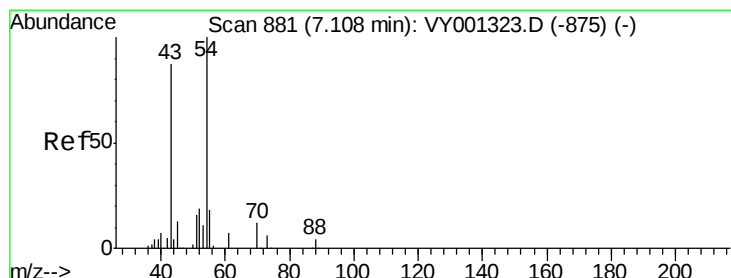
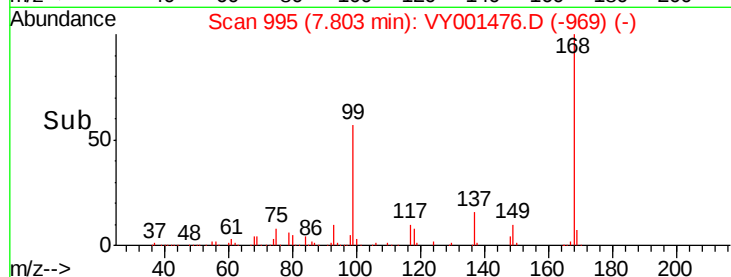
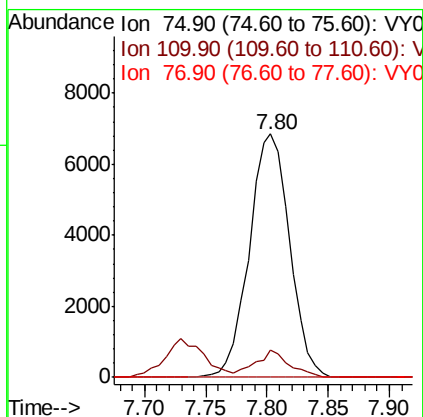
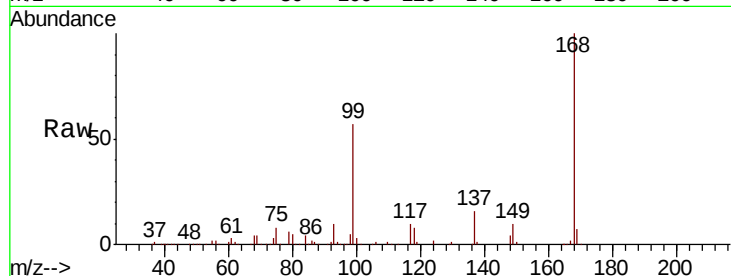




#36
 1,1-Dichloropropene
 Concen: 4.478 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.14 min
 Lab File: VY001476.D
 Acq: 03 Feb 2020 16:29

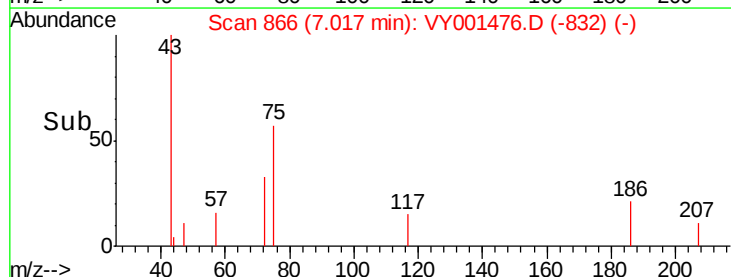
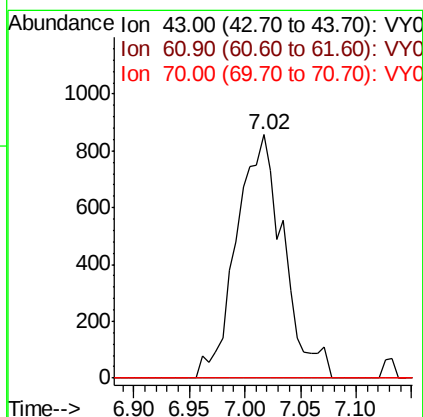
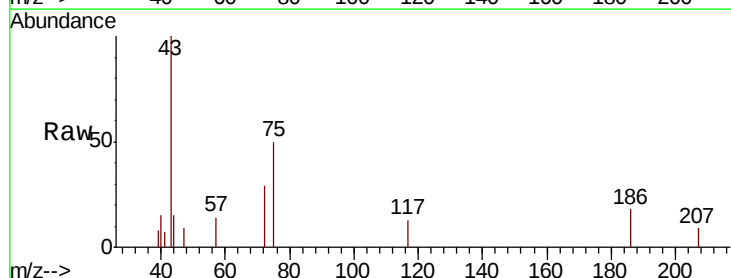
Instrument :
 MSVOA_Y
 ClientSampleId :

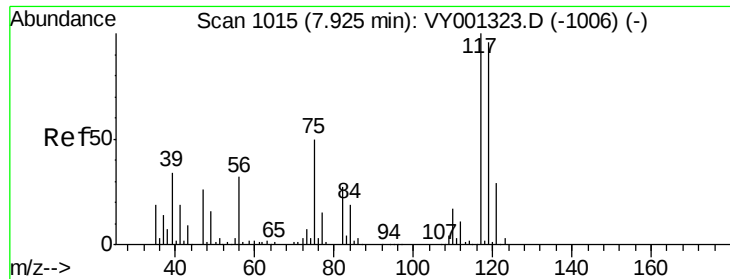
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.6	52.8#
77	0.0	24.7	37.1#



#37
 Ethyl Acetate
 Concen: 1.170 ug/l
 RT: 7.02 min Scan# 866
 Delta R.T. -0.09 min
 Lab File: VY001476.D
 Acq: 03 Feb 2020 16:29

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	8.7	13.1#





#38

Carbon Tetrachloride

Concen: 6.465 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.12 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

Instrument :

MSVOA_Y

ClientSampled :

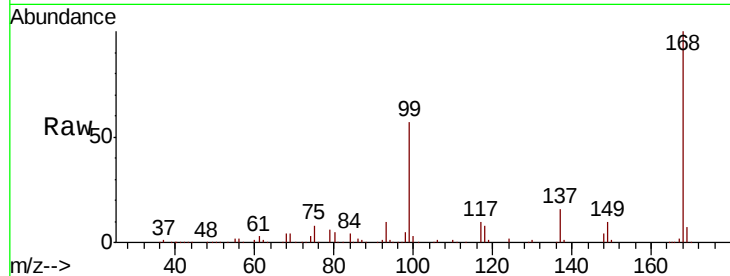
Tot Ion:117 Resp: 20181

Ion Ratio Lower Upper

117 100

119 5.5 76.3 114.5#

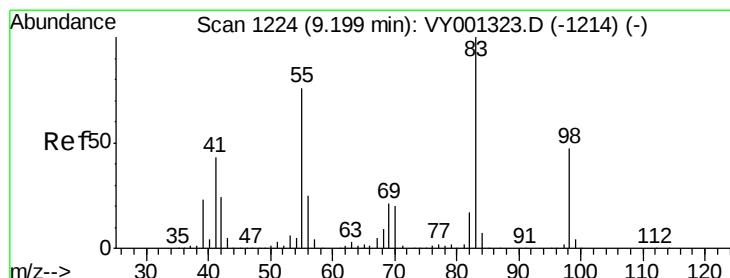
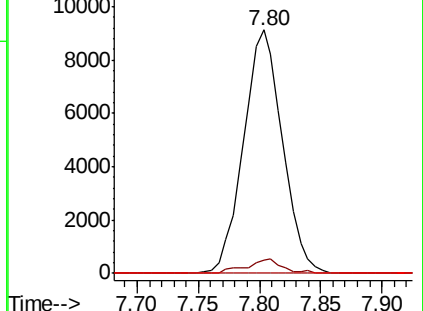
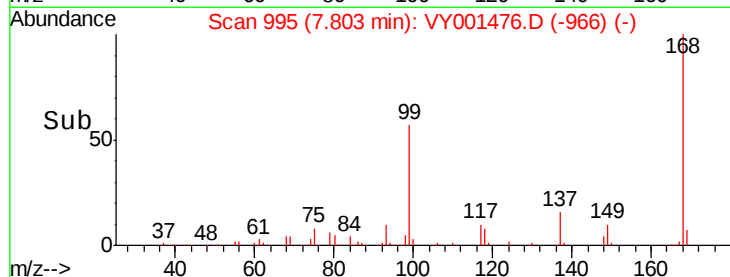
121 0.0 23.5 35.3#



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



#39

Methylcyclohexane

Concen: 1.374 ug/l

RT: 9.19 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

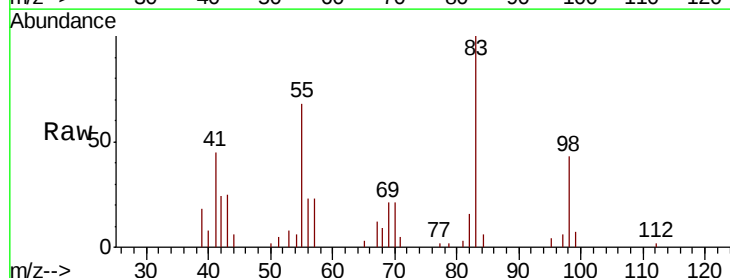
Tgt Ion: 83 Resp: 6164

Ion Ratio Lower Upper

83 100

55 68.1 60.7 91.1

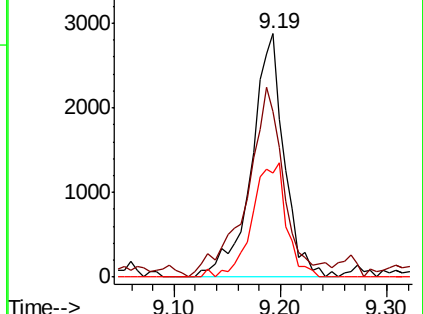
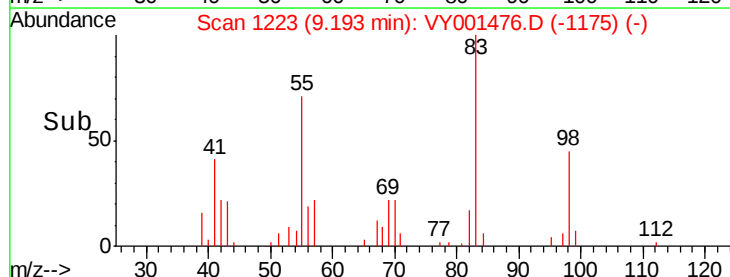
98 43.0 37.8 56.8

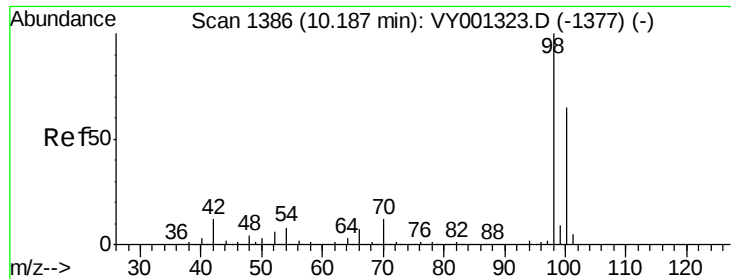


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#50

Toluene-d8

Concen: 52.256 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.00 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

Instrument :

MSVOA_Y

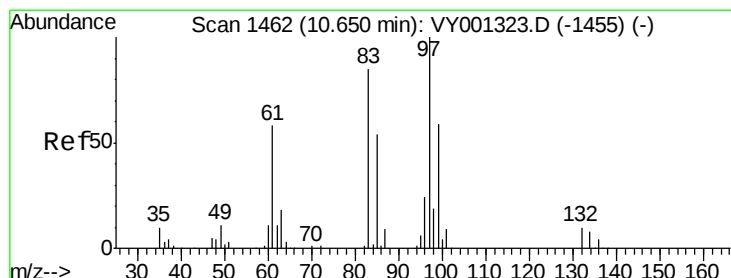
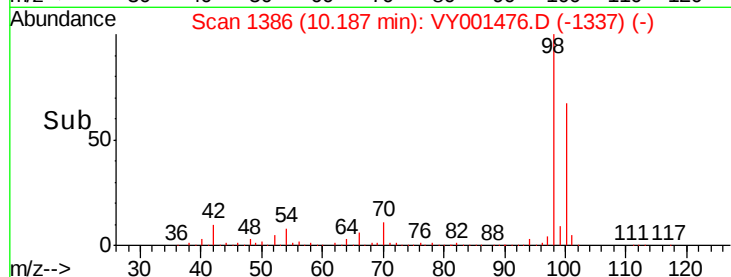
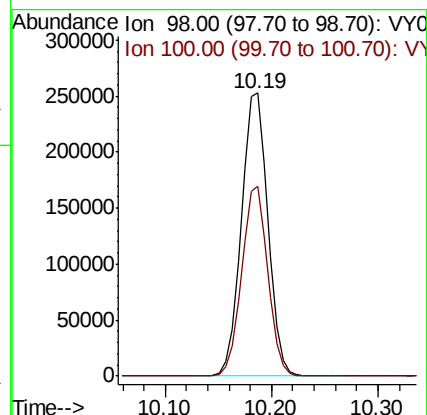
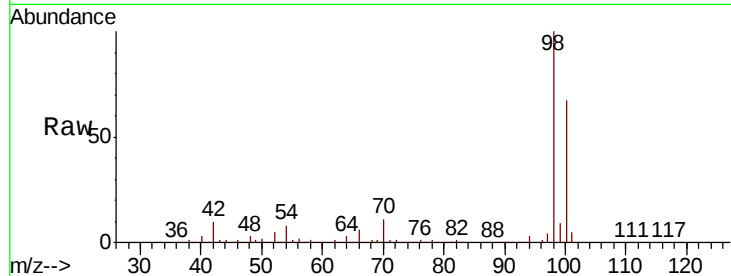
ClientSampled :

Tot Ion: 98 Resp: 441778

Ion Ratio Lower Upper

98 100

100 65.9 52.6 79.0



#55

1,1,2-Trichloroethane

Concen: 1.774 ug/l

RT: 10.63 min Scan# 1458

Delta R.T. -0.02 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

Tgt Ion: 97 Resp: 3732

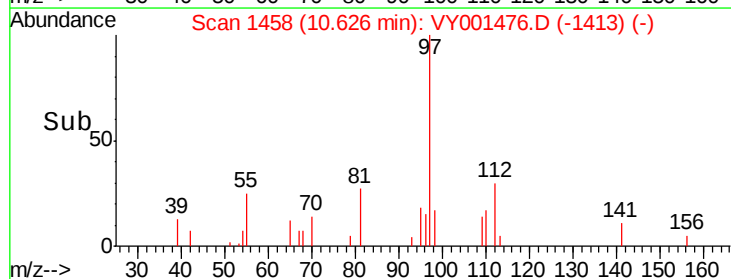
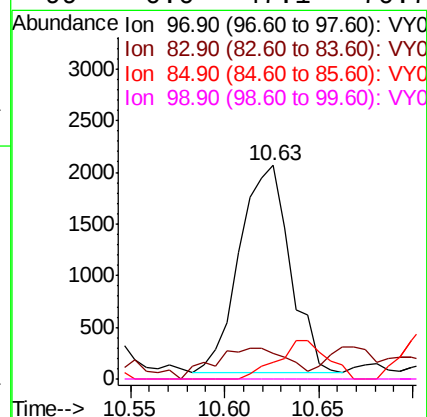
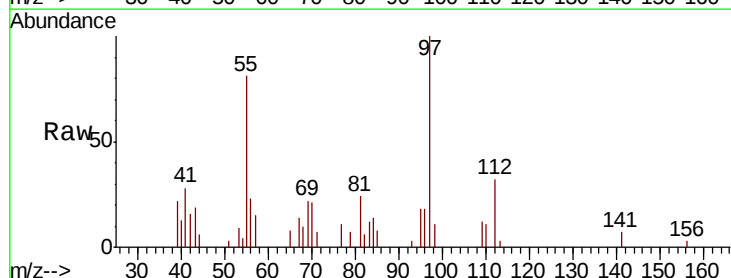
Ion Ratio Lower Upper

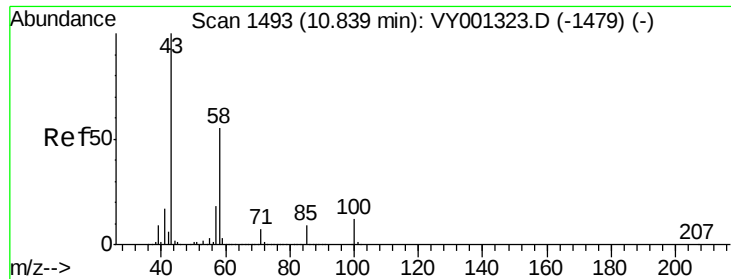
97 100

83 6.2 68.0 102.0#

85 8.0 43.6 65.4#

99 0.0 47.1 70.7#

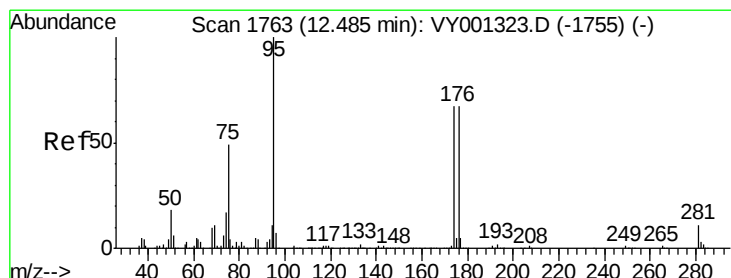
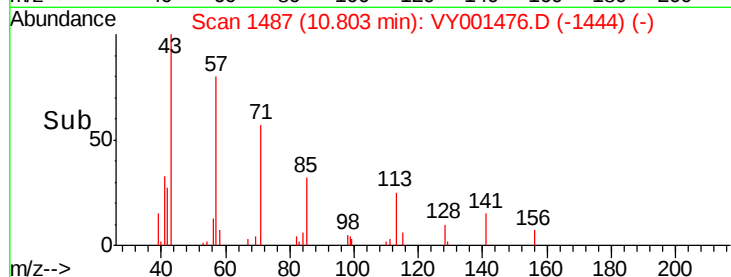
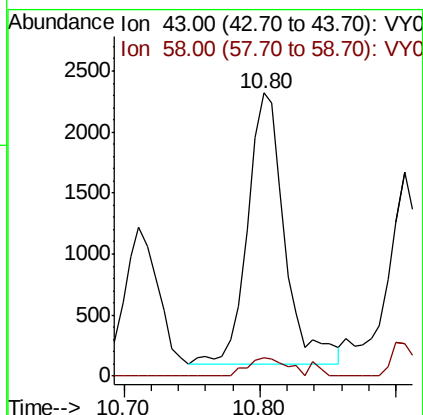
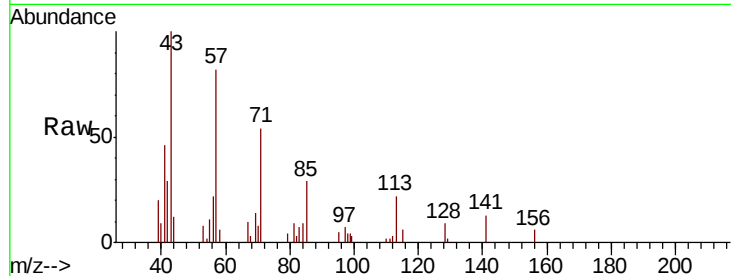




#59
2-Hexanone
Concen: 2.863 ug/l
RT: 10.80 min Scan# 1487
Delta R.T. -0.04 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

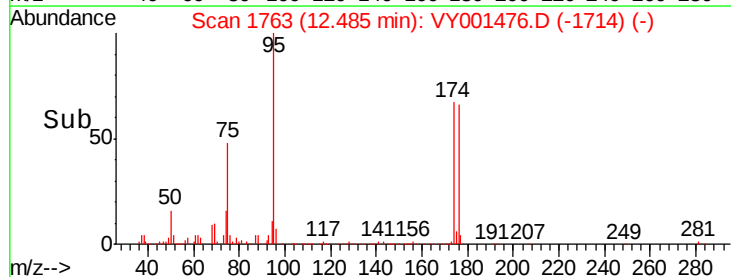
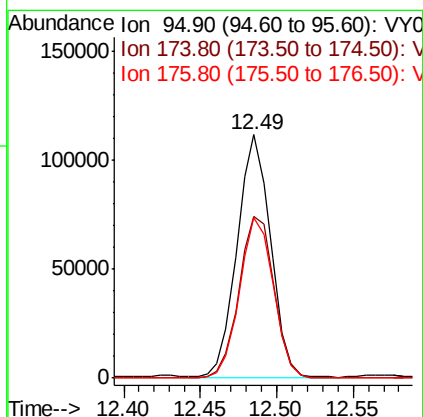
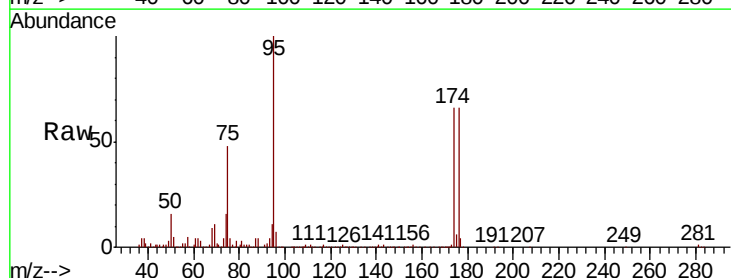
Instrument :
MSVOA_Y
ClientSampled :

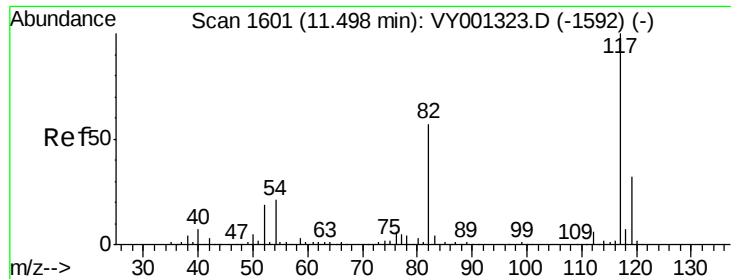
Tot Ion: 43 Resp: 4272
Ion Ratio Lower Upper
43 100
58 7.1 27.6 82.8#



#62
4-Bromofluorobenzene
Concen: 49.914 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion: 95 Resp: 168048
Ion Ratio Lower Upper
95 100
174 69.9 0.0 142.0
176 67.2 0.0 138.6

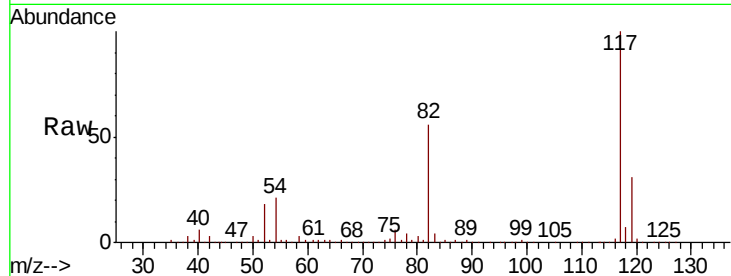




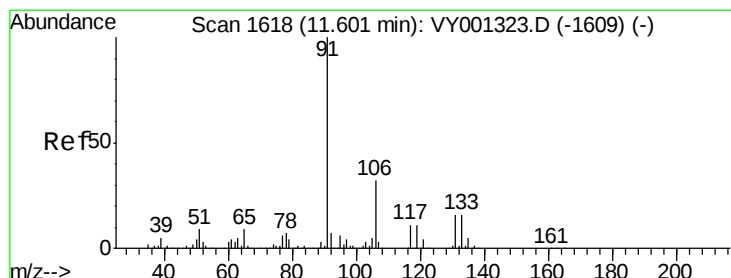
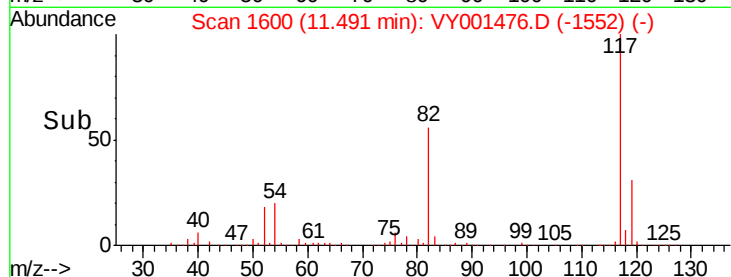
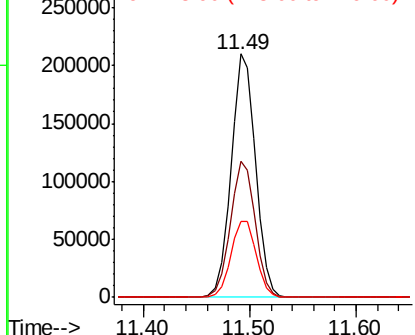
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 335771
Ion Ratio Lower Upper
117 100
82 55.6 45.5 68.3
119 31.0 25.8 38.6

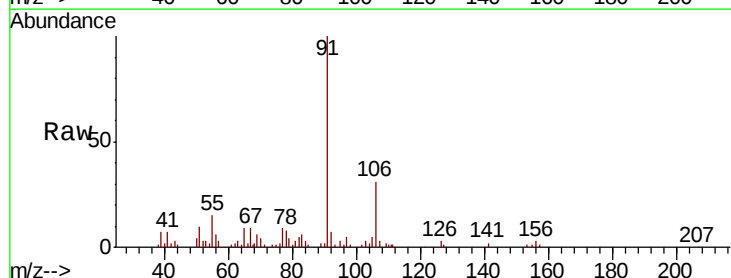


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

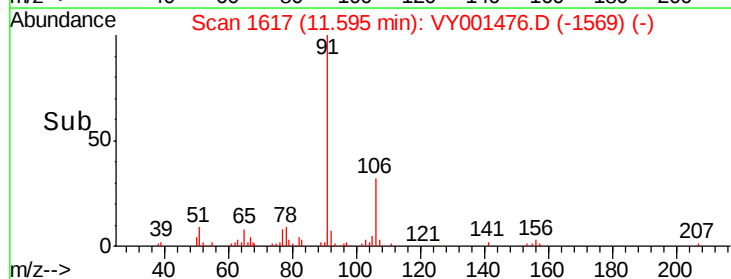
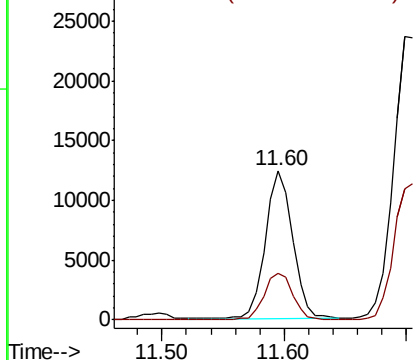


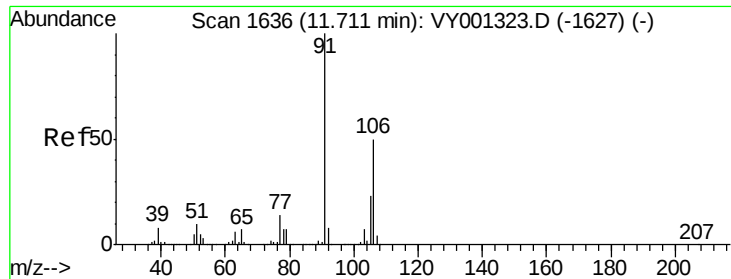
#67
Ethyl Benzene
Concen: 1.491 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion: 91 Resp: 19442
Ion Ratio Lower Upper
91 100
106 31.4 25.4 38.0



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

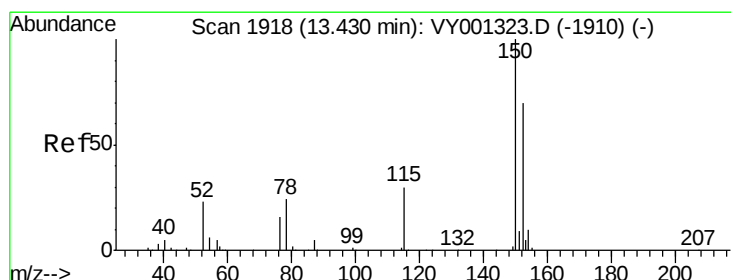
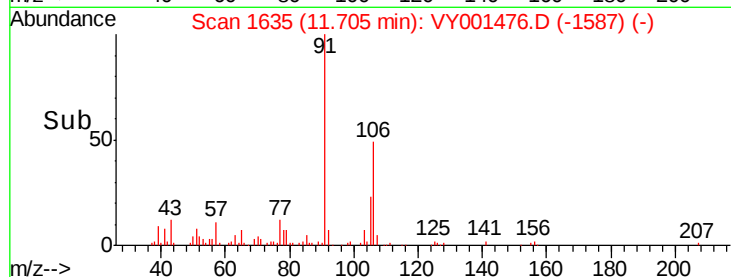
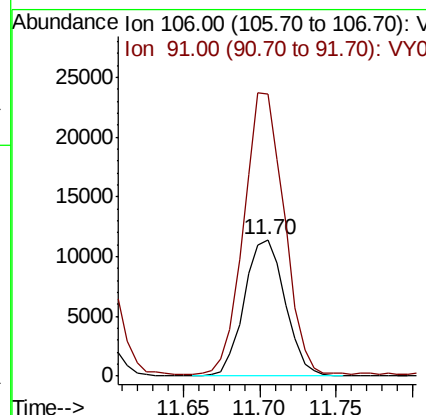
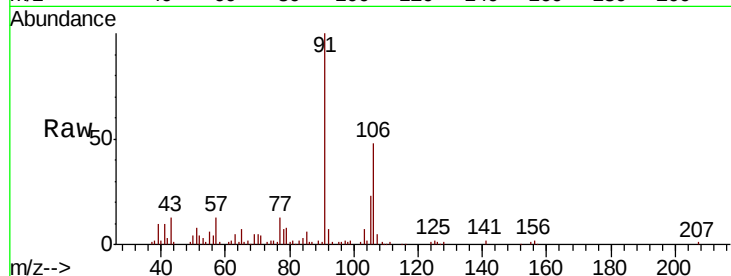




#68
m/p-Xvlenes
Concen: 4.341 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

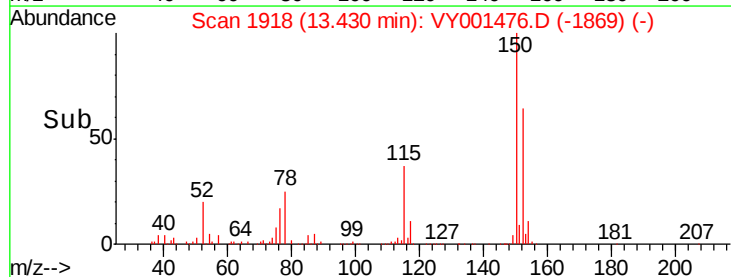
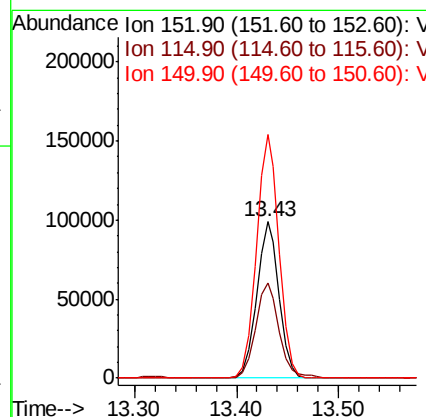
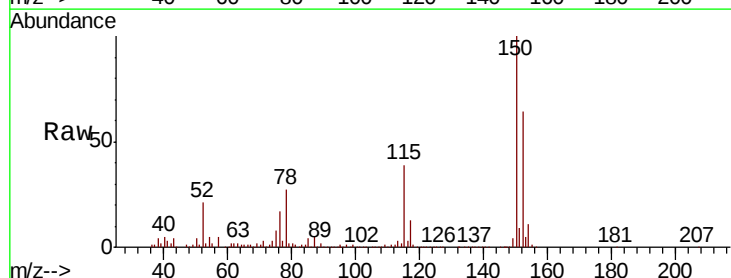
Instrument :
MSVOA_Y
ClientSampled :

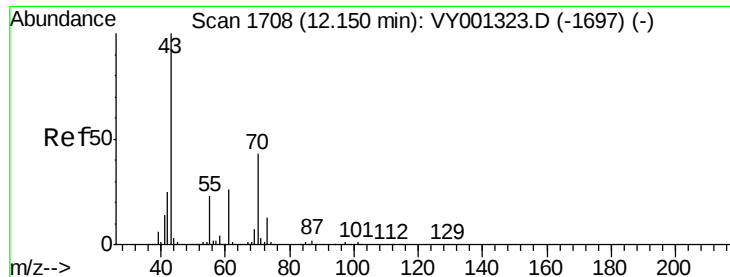
Tot Ion:106 Resp: 21147
Ion Ratio Lower Upper
106 100
91 204.4 162.8 244.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.00 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion:152 Resp: 149936
Ion Ratio Lower Upper
152 100
115 63.7 30.9 92.8
150 157.2 0.0 349.2





#74

N-amvl acetate

Concen: 1.729 ug/l

RT: 12.13 min Scan# 1704

Delta R.T. -0.02 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion: 43 Resp: 6695

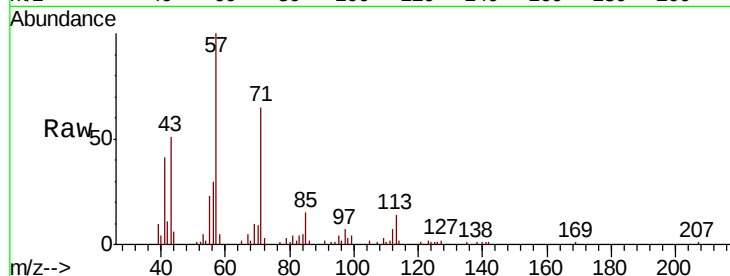
Ion Ratio Lower Upper

43 100

70 0.0 33.5 50.3#

55 0.0 18.2 27.2#

61 0.0 19.6 29.4#

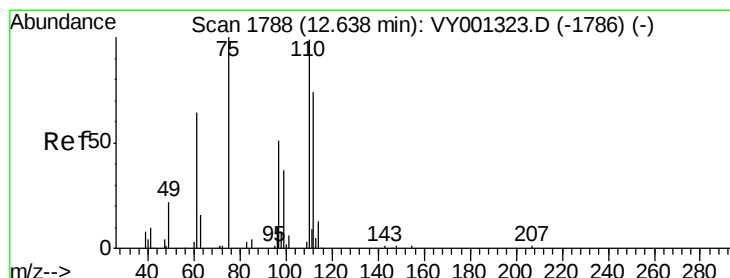
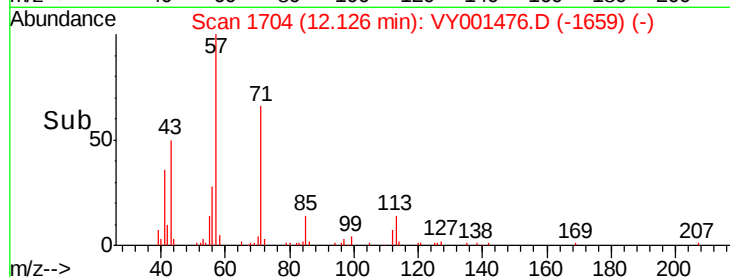
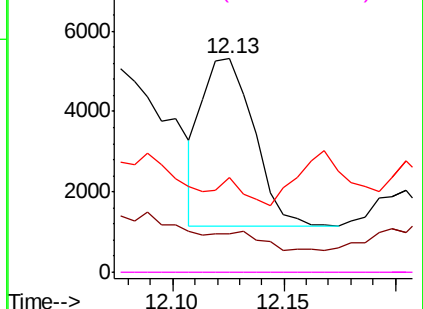


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0



#76

1,2,3-Trichloropropane

Concen: 43.843 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001476.D

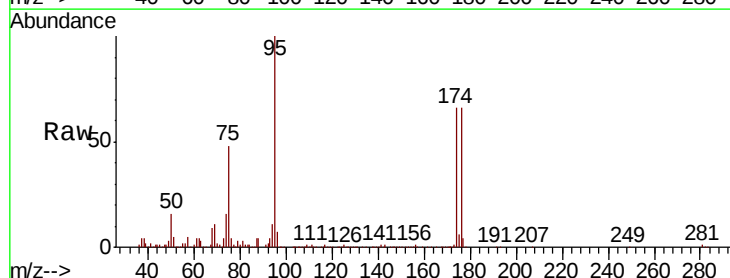
Acq: 03 Feb 2020 16:29

Tgt Ion: 75 Resp: 79212

Ion Ratio Lower Upper

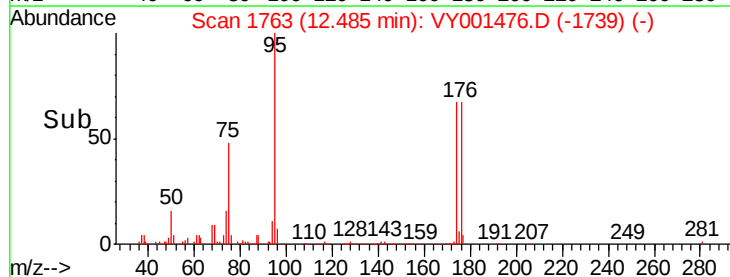
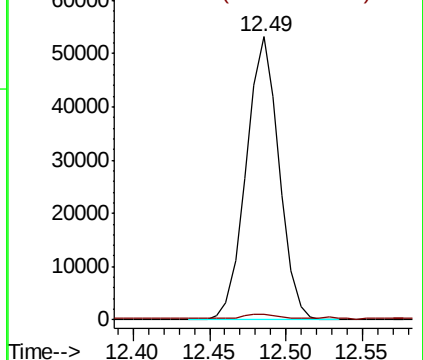
75 100

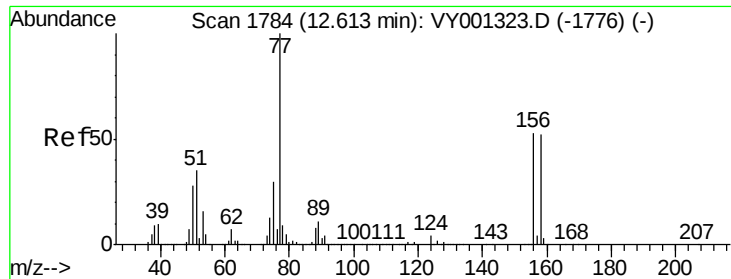
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 1.413 ug/l

RT: 12.63 min Scan# 1786

Delta R.T. 0.01 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

Instrument :

MSVOA_Y

ClientSampleId :

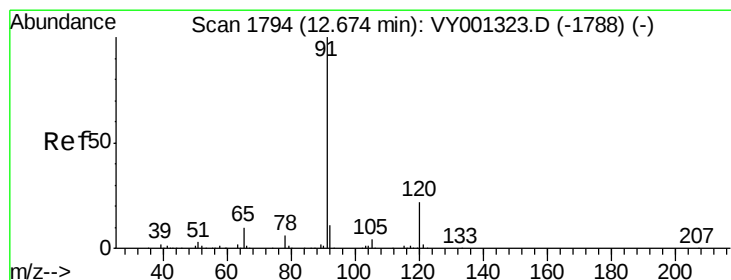
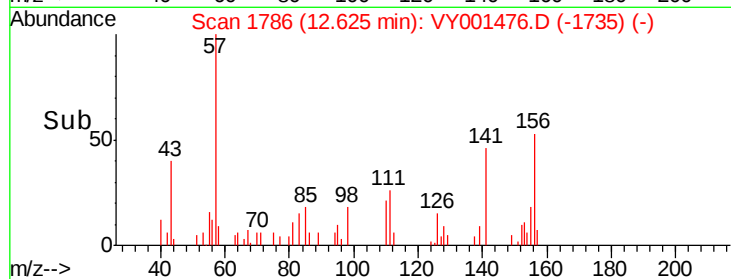
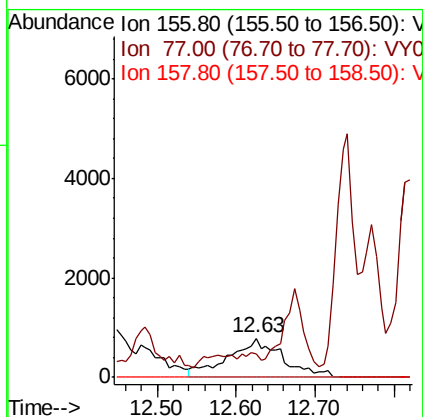
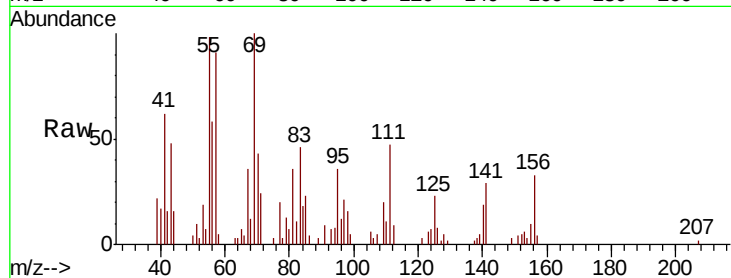
Tot Ion:156 Resp: 3703

Ion Ratio Lower Upper

156 100

77 9.4 104.7 313.9#

158 0.0 48.6 145.8#



#78

n-propylbenzene

Concen: 3.535 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.00 min

Lab File: VY001476.D

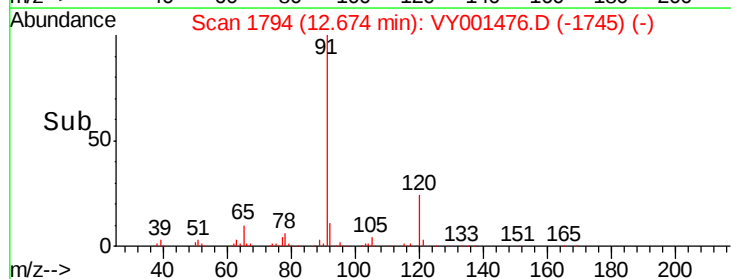
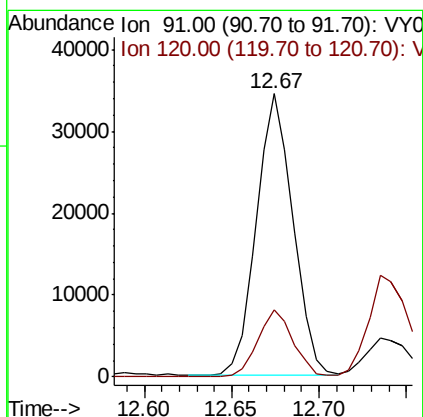
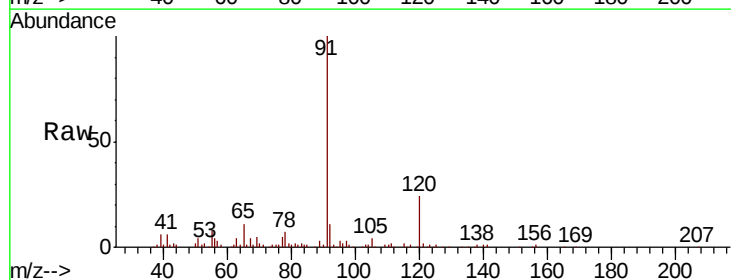
Acq: 03 Feb 2020 16:29

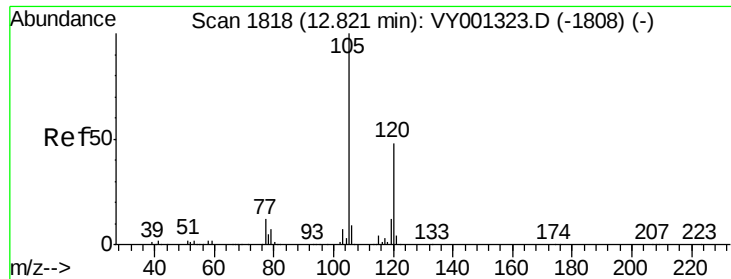
Tgt Ion: 91 Resp: 50344

Ion Ratio Lower Upper

91 100

120 23.2 11.3 33.8

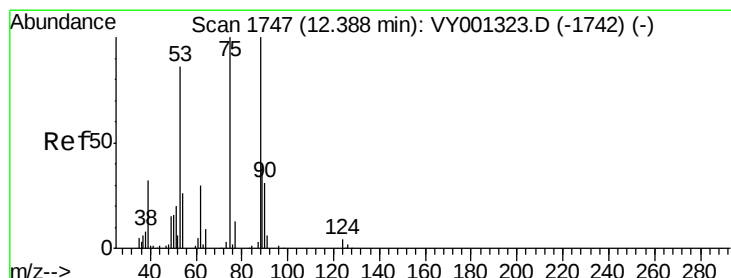
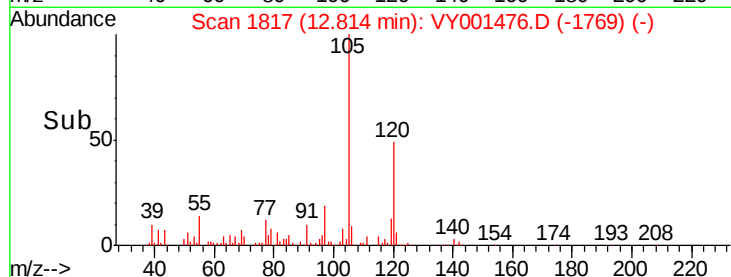
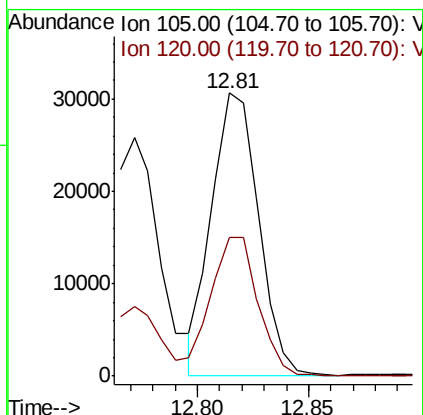
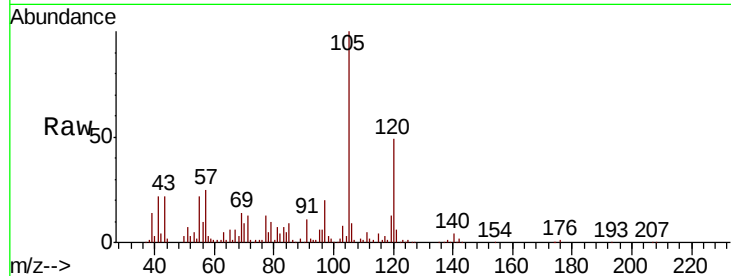




#80
 1,3,5-Trimethylbenzene
 Concen: 4.527 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: VY001476.D
 Acq: 03 Feb 2020 16:29

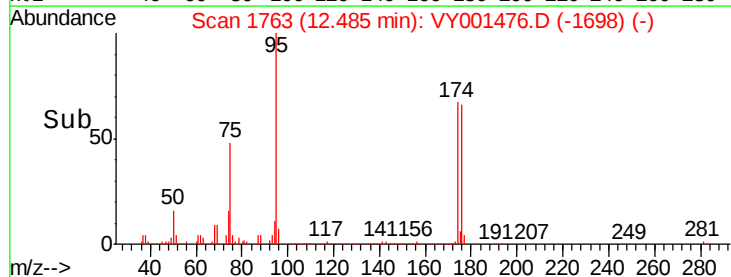
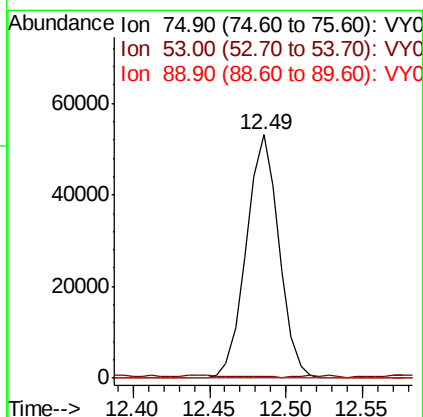
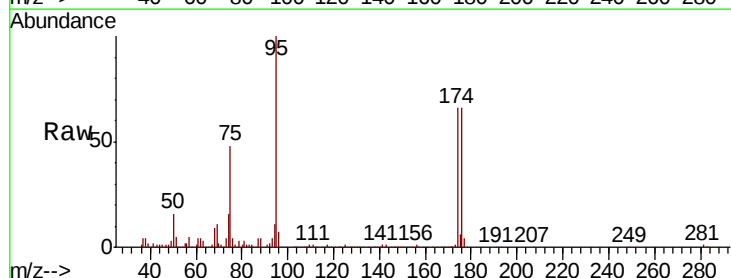
Instrument :
 MSVOA_Y
 ClientSampleId :

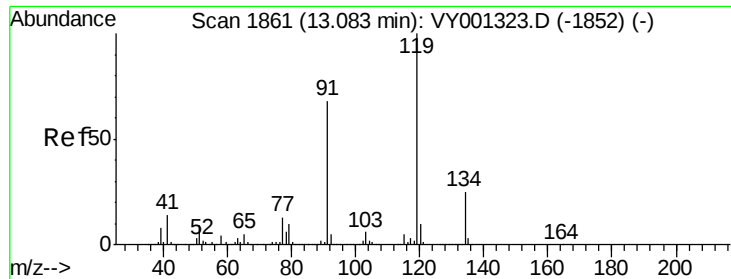
Tot Ion:105 Resp: 44706
 Ion Ratio Lower Upper
 105 100
 120 50.6 24.3 72.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.967 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. 0.10 min
 Lab File: VY001476.D
 Acq: 03 Feb 2020 16:29

Tgt Ion: 75 Resp: 79212
 Ion Ratio Lower Upper
 75 100
 53 0.3 69.9 104.9#
 89 0.1 36.6 54.8#

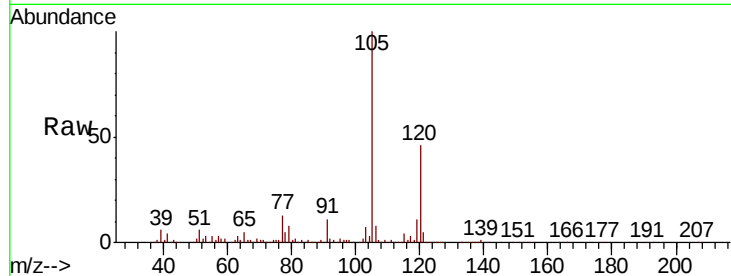




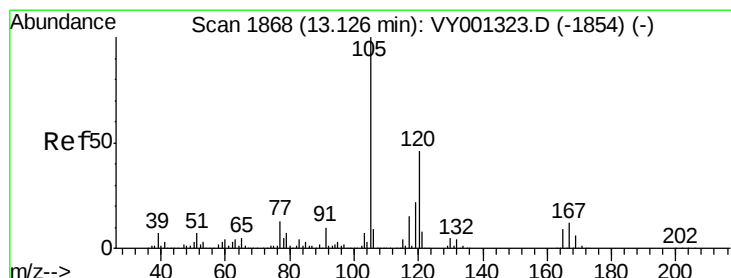
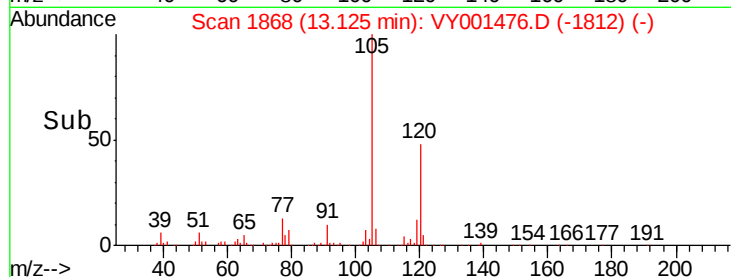
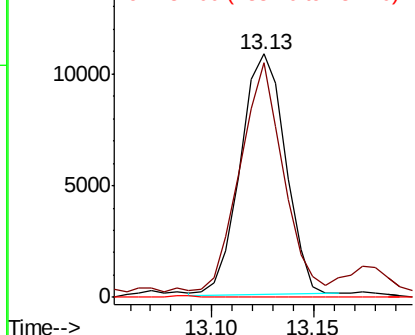
#83
tert-Butylbenzene
Concen: 2.001 ug/l
RT: 13.13 min Scan# 1868
Delta R.T. 0.04 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:119 Resp: 16656
Ion Ratio Lower Upper
119 100
91 89.0 33.0 99.0
134 0.0 13.3 39.9#

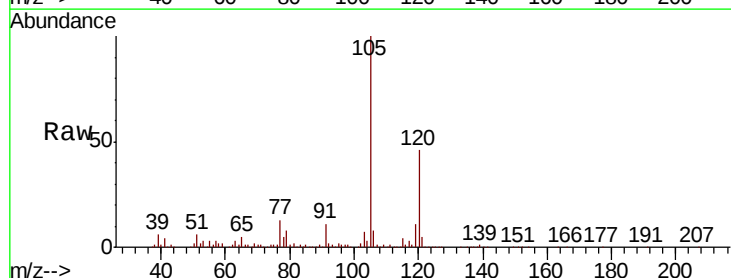


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VY0
Ion 134.00 (133.70 to 134.70): V

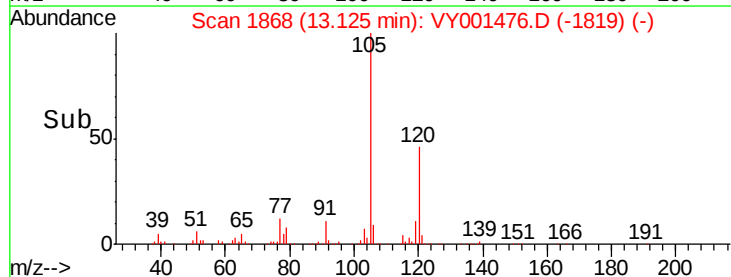
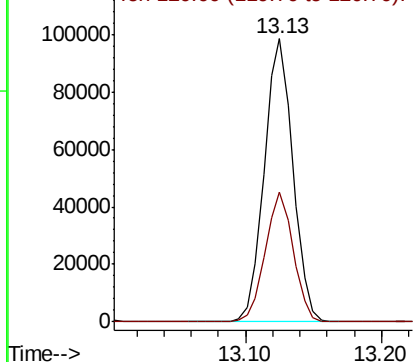


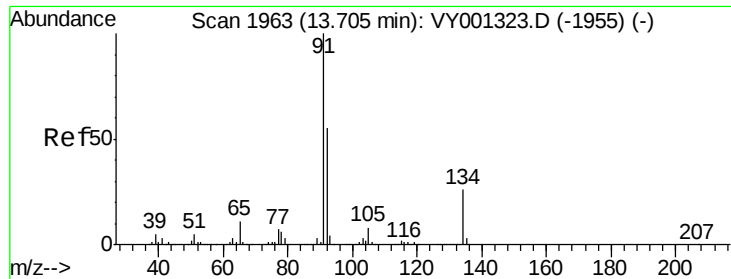
#84
1,2,4-Trimethylbenzene
Concen: 14.632 ug/l
RT: 13.13 min Scan# 1868
Delta R.T. -0.00 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion:105 Resp: 145072
Ion Ratio Lower Upper
105 100
120 45.1 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

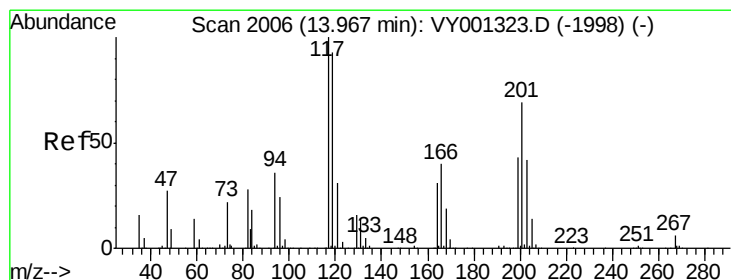
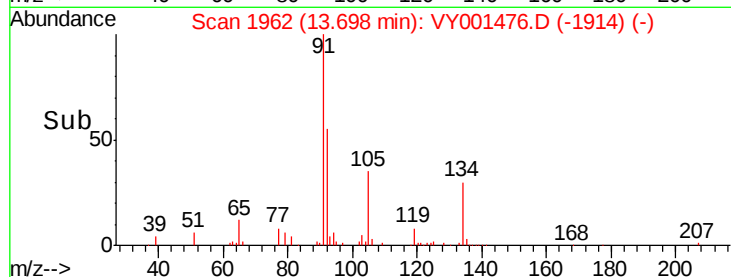
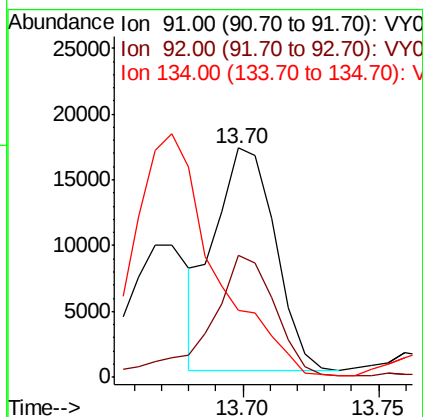
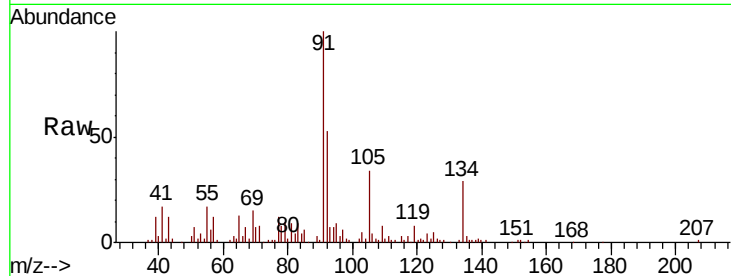




#89
n-Butylbenzene
Concen: 2.483 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. -0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

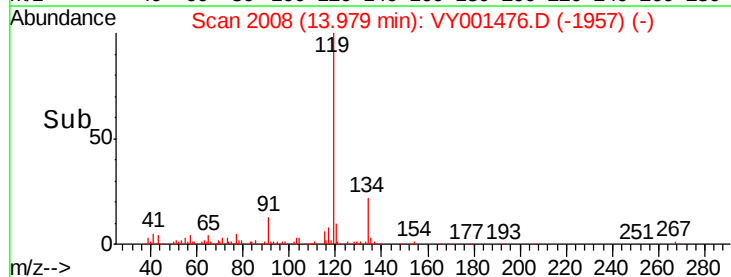
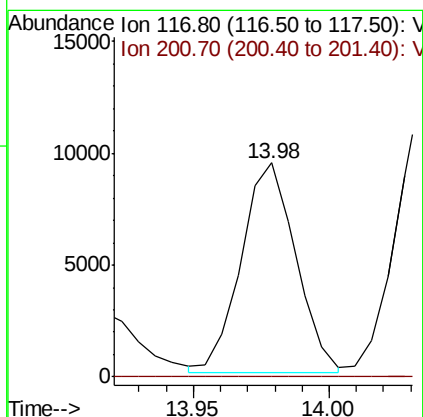
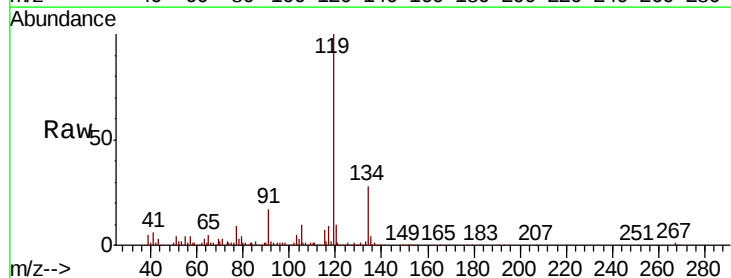
Instrument :
MSVOA_Y
ClientSampled :

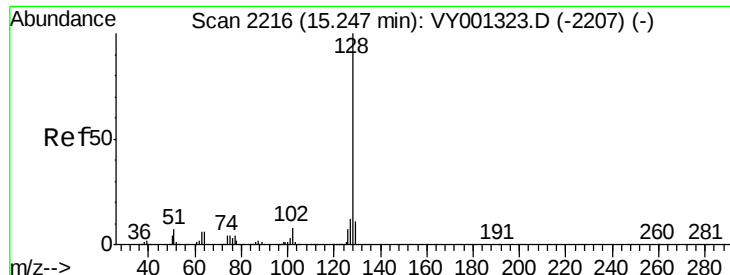
Tot Ion: 91 Resp: 26049
Ion Ratio Lower Upper
91 100
92 58.3 27.6 82.8
134 0.0 12.9 38.6#



#90
Hexachloroethane
Concen: 6.591 ug/l
RT: 13.98 min Scan# 2008
Delta R.T. 0.01 min
Lab File: VY001476.D
Acq: 03 Feb 2020 16:29

Tgt Ion: 117 Resp: 13022
Ion Ratio Lower Upper
117 100
201 0.0 34.6 103.8#





#95

Naphthalene

Concen: 29.648 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001476.D

Acq: 03 Feb 2020 16:29

Instrument :

MSVOA_Y

ClientSampleId :

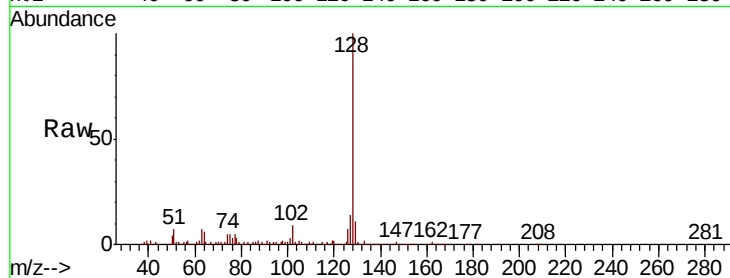
Tot Ion:128 Resp: 211777

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.2

129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

