

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031920\
 Data File : VY002024.D
 Acq On : 19 Mar 2020 16:12
 Operator : SY/MD
 Sample : L1978-10RE
 Misc : 5.06G/5ML/MSVOA Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 20 01:58:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	139597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	271452	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	242187	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	92067	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	87828	58.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.86%	
35) Dibromofluoromethane	7.74	113	80856	54.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.10%	
50) Toluene-d8	10.19	98	331829	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.49	95	115678	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	

Target Compounds

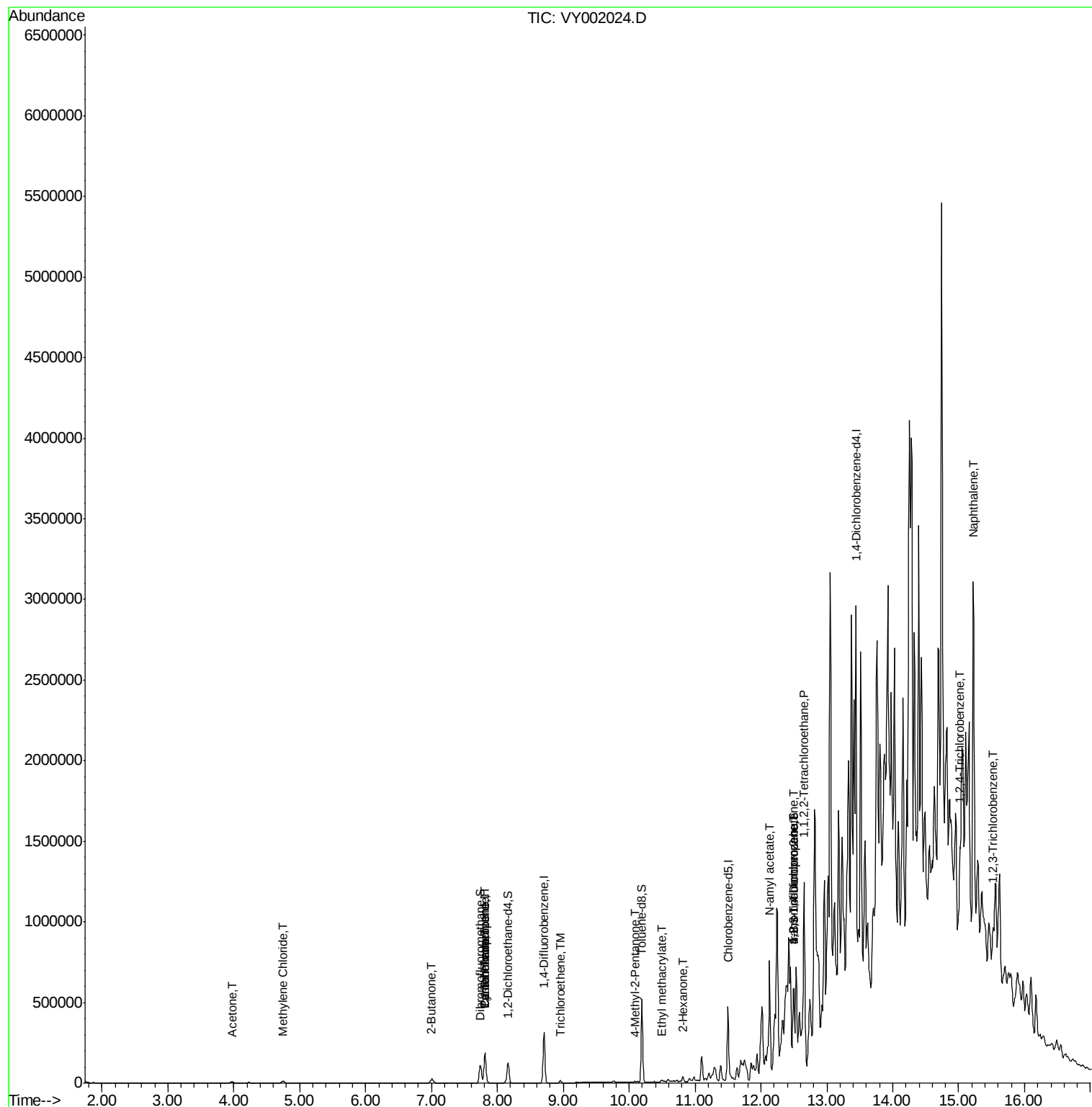
						Qvalue
5) Bromomethane	2.66	94	29	Below Cal	#	4
11) Tert butyl alcohol	4.95	59	919	Below Cal	#	74
16) Acetone	3.97	43	15344	35.350	ug/l #	85
20) Methylene Chloride	4.74	84	9579	5.149	ug/l	95
25) 2-Butanone	7.01	43	6731	10.197	ug/l	98
31) Cyclohexane	7.80	56	3521	1.075	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	12254	4.691	ug/l #	50
38) Carbon Tetrachloride	7.81	117	15019	6.731	ug/l #	16
44) Trichloroethene	8.96	130	6007	3.186	ug/l	91
51) 4-Methyl-2-Pentanone	10.08	43	3002	2.028	ug/l	99
56) Ethyl methacrylate	10.49	69	3893	1.809	ug/l	99
59) 2-Hexanone	10.81	43	14555	13.774	ug/l #	30
74) N-amyl acetate	12.13	43	168024	77.787	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	12.66	83	92775	61.213	ug/l #	52
76) 1,2,3-Trichloropropane	12.49	75	53145	48.648	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	53145	98.267	ug/l #	19
93) 1,2,4-Trichlorobenzene	15.02	180	2438	1.418	ug/l #	1
95) Naphthalene	15.23	128	5035	1.235	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.52	180	3790	2.503	ug/l	89

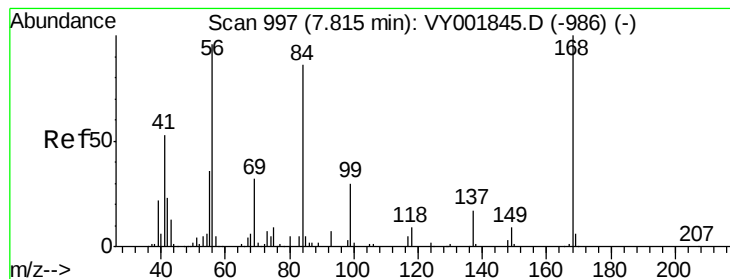
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :

MSVOA_Y

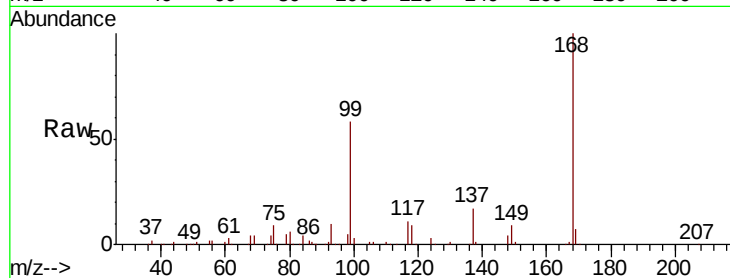
ClientSampleId :

Tot Ion:168 Resp: 139597

Ion Ratio Lower Upper

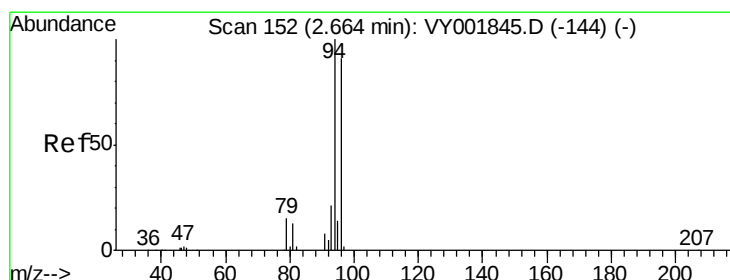
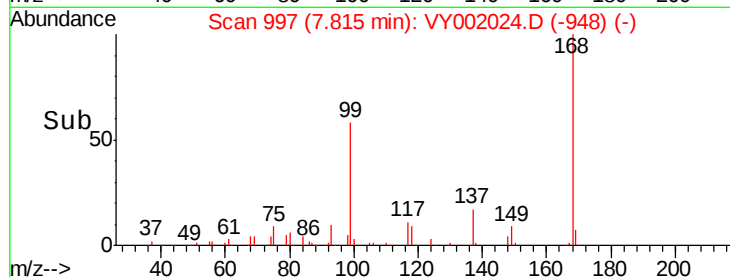
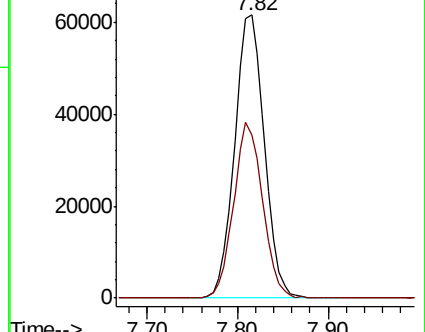
168 100

99 57.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.66 min Scan# 152

Delta R.T. 0.00 min

Lab File: VY002024.D

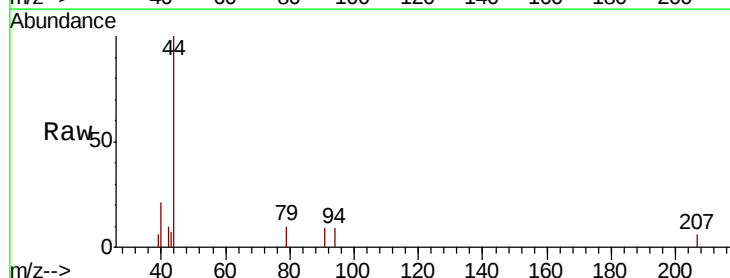
Acq: 19 Mar 2020 16:12

Tgt Ion: 94 Resp: 29

Ion Ratio Lower Upper

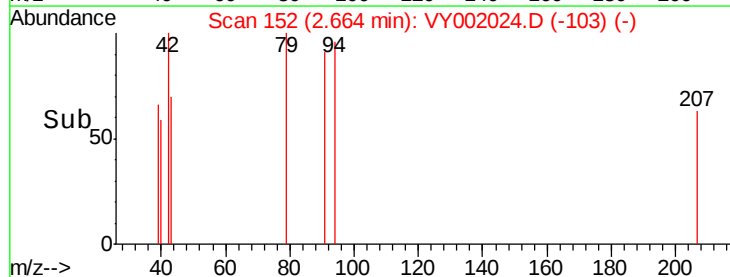
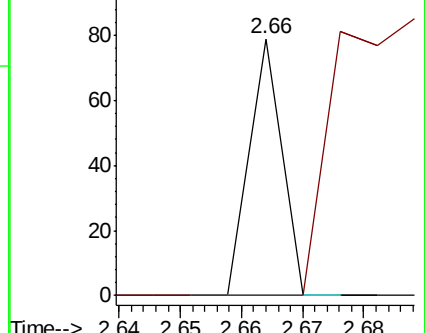
94 100

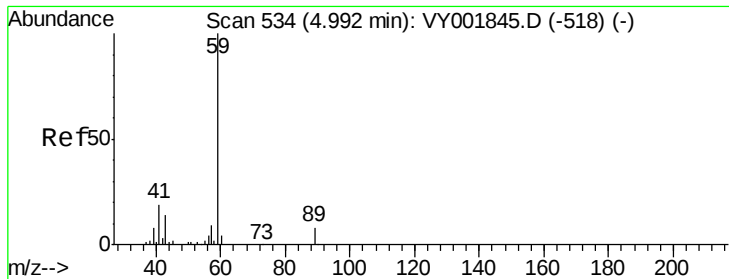
96 0.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)

Ion 95.90 (95.60 to 96.60): VY001845.D (-144) (-)

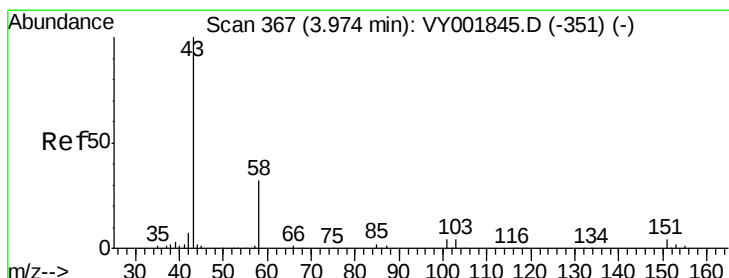
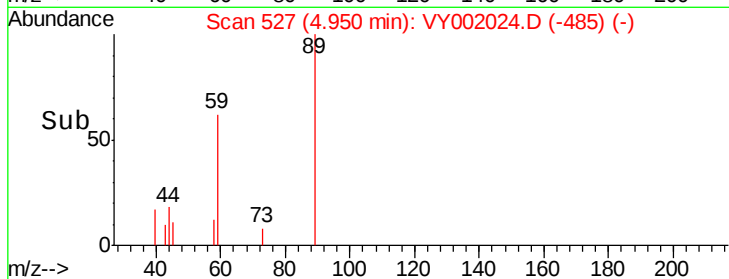
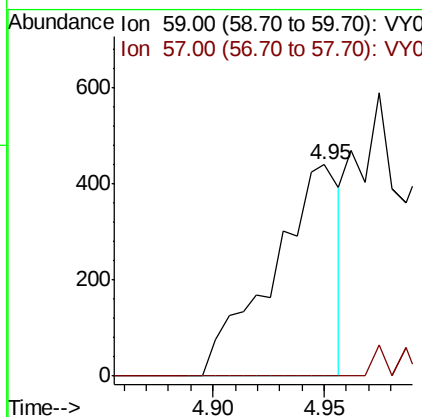
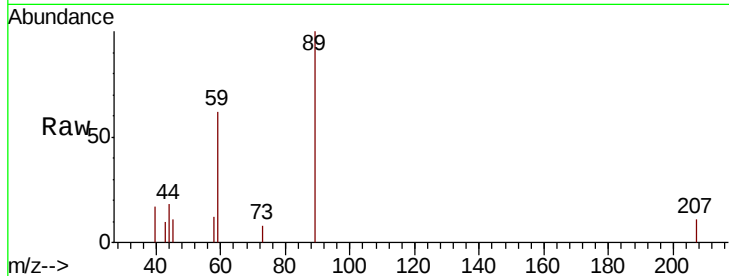




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.95 min Scan# 527
Delta R.T. -0.04 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

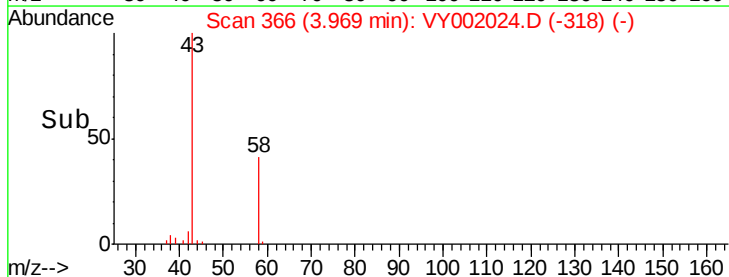
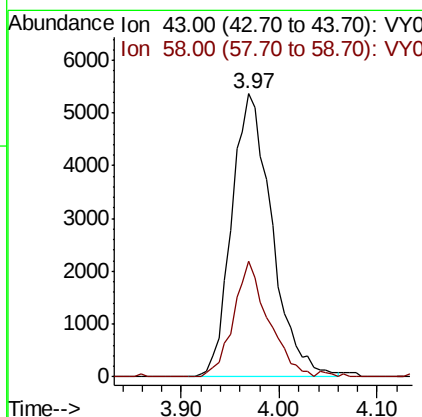
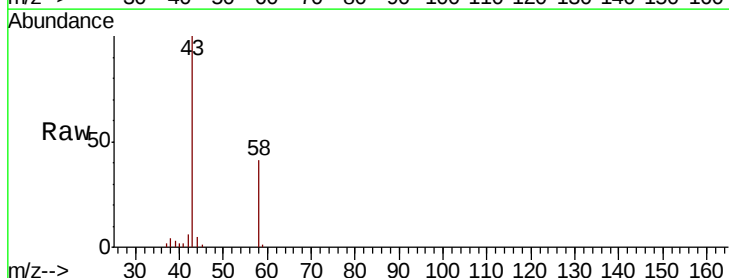
Instrument :
MSVOA_Y
ClientSampled :

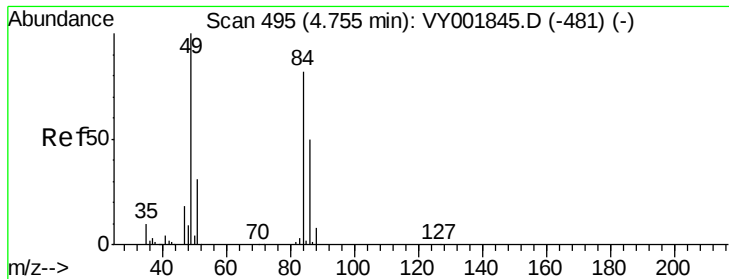
Tot Ion: 59 Resp: 919
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#16
Acetone
Concen: 35.350 ug/l
RT: 3.97 min Scan# 366
Delta R.T. -0.01 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

Tgt Ion: 43 Resp: 15344
Ion Ratio Lower Upper
43 100
58 41.0 25.9 38.9#

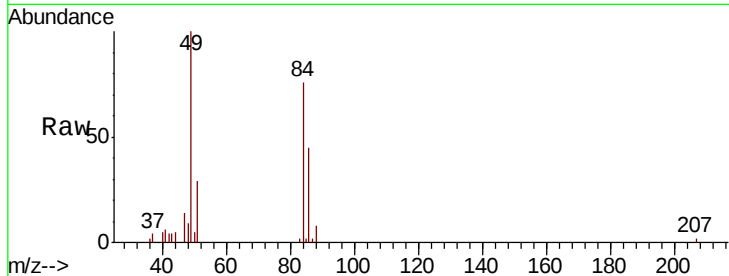




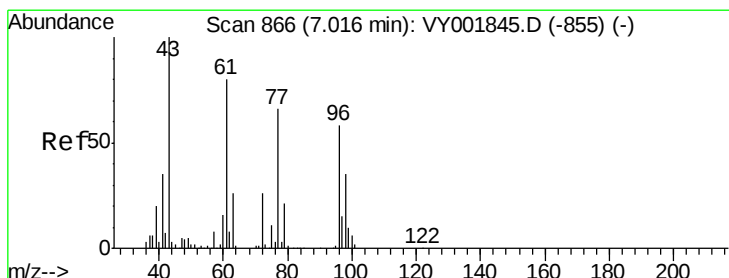
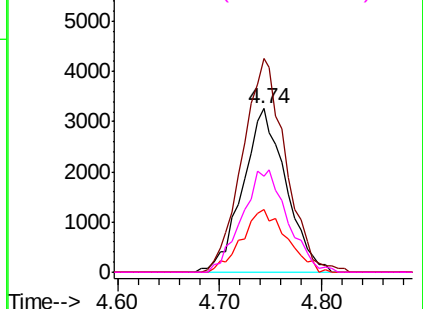
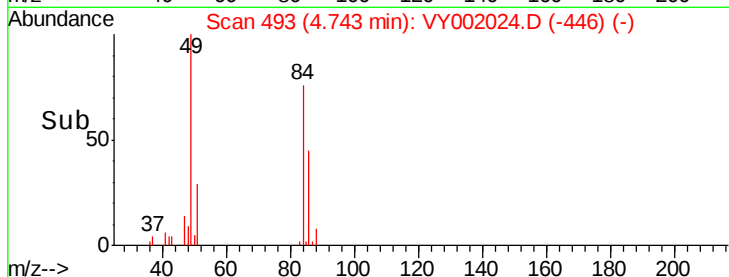
#20
Methvlene Chloride
Concen: 5.149 ug/l
RT: 4.74 min Scan# 493
Delta R.T. -0.01 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 84 Resp: 9579
Ion Ratio Lower Upper
84 100
49 130.8 98.2 147.2
51 38.2 30.2 45.2
86 58.7 48.9 73.3

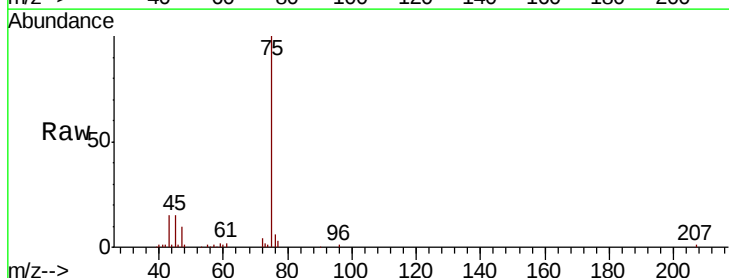


Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0

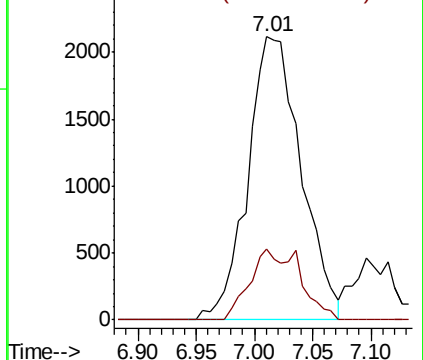
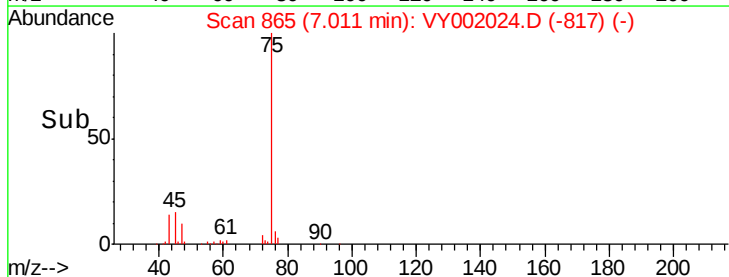


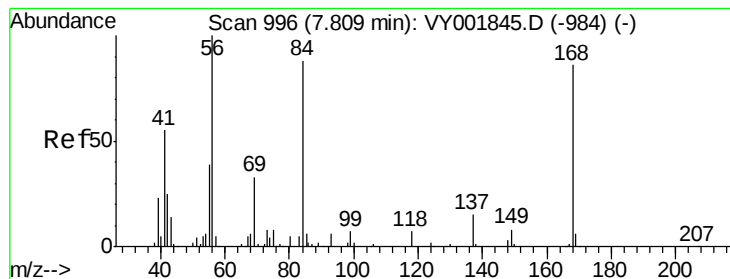
#25
2-Butanone
Concen: 10.197 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.01 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

Tgt Ion: 43 Resp: 6731
Ion Ratio Lower Upper
43 100
72 24.9 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 72.00 (71.70 to 72.70): VY0





#31

Cyclohexane

Concen: 1.075 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :
MSVOA_Y
ClientSampled :

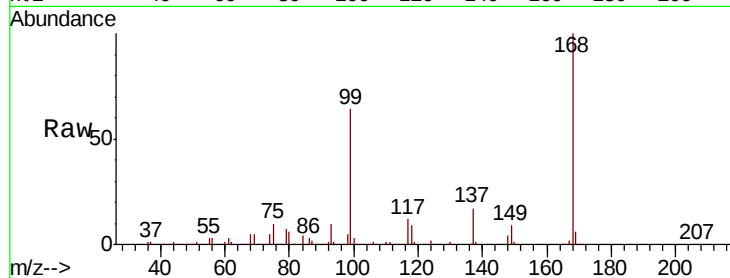
Tot Ion: 56 Resp: 3521

Ion Ratio Lower Upper

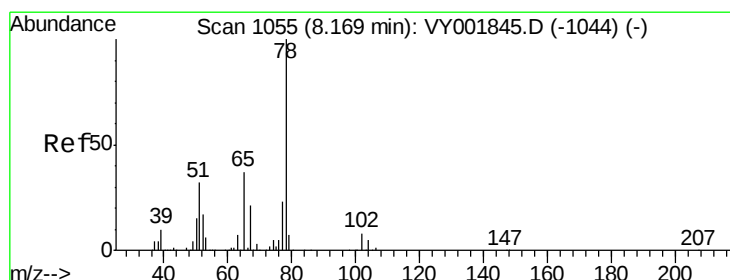
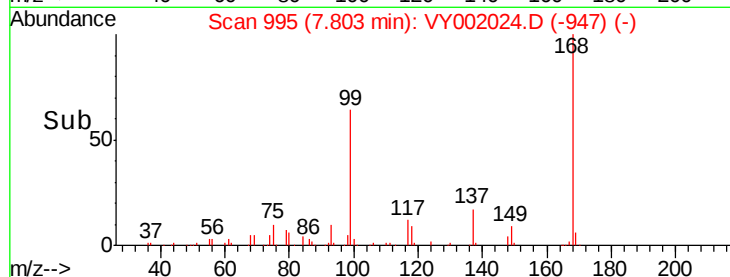
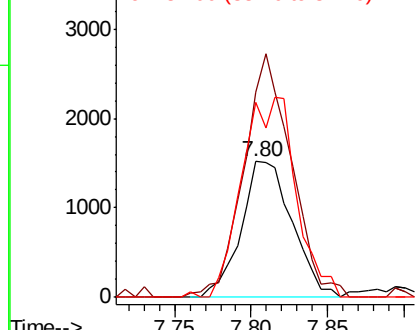
56 100

69 147.3 26.7 40.1#

84 144.0 70.4 105.6#



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: 58.933 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY002024.D

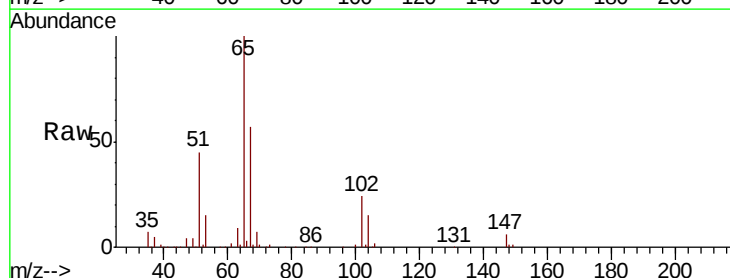
Acq: 19 Mar 2020 16:12

Tgt Ion: 65 Resp: 87828

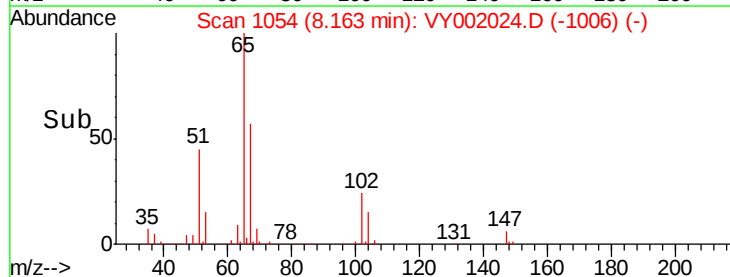
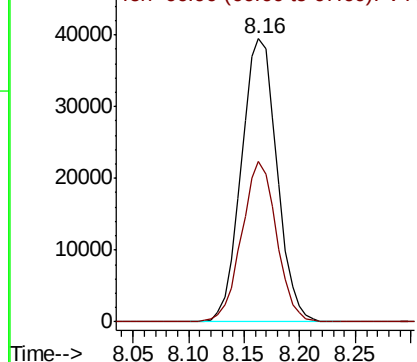
Ion Ratio Lower Upper

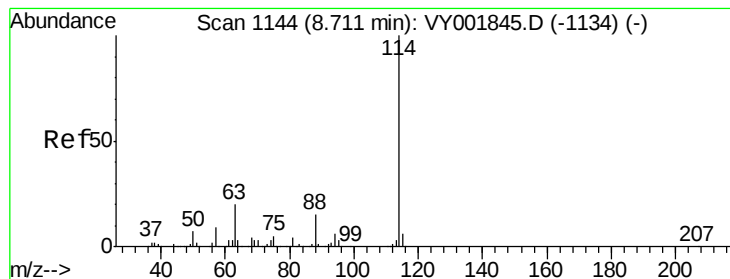
65 100

67 55.4 0.0 110.8



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: 8.71 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

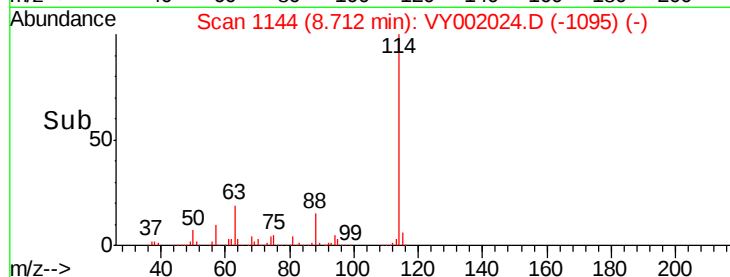
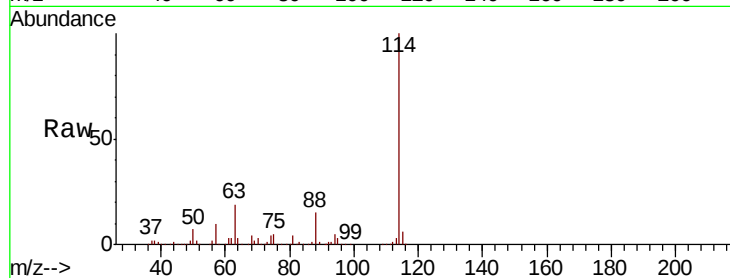
Tot Ion:114 Resp: 271452

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.4

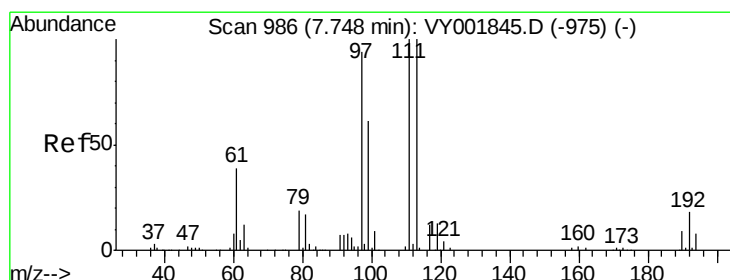
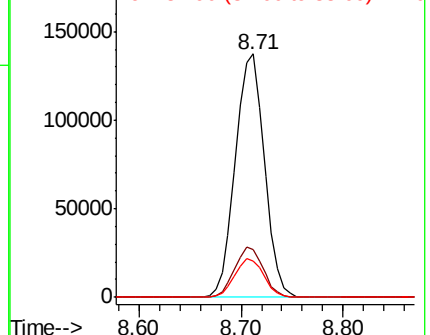
88 15.1 0.0 30.4



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: 54.550 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

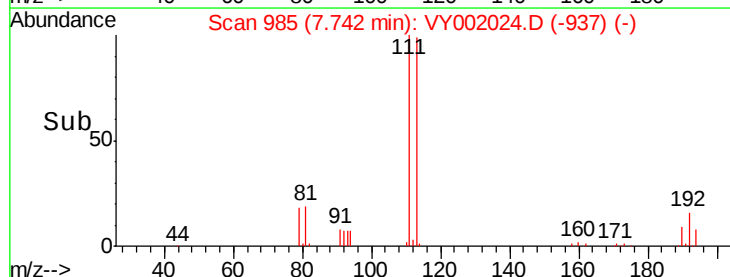
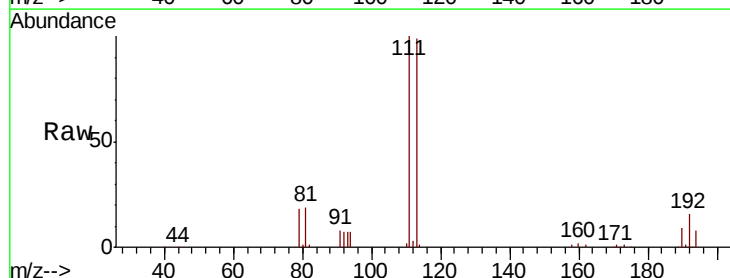
Tgt Ion:113 Resp: 80856

Ion Ratio Lower Upper

113 100

111 103.6 81.8 122.8

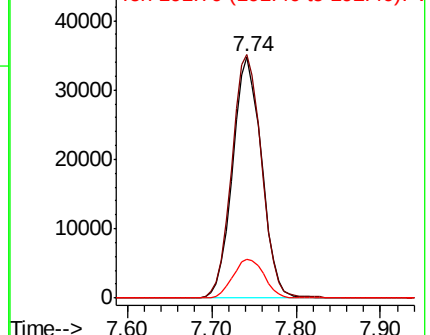
192 17.3 14.2 21.2

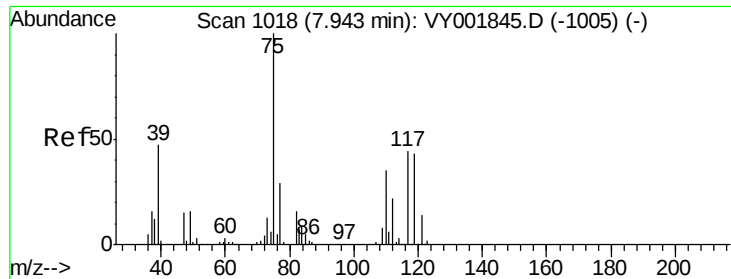


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

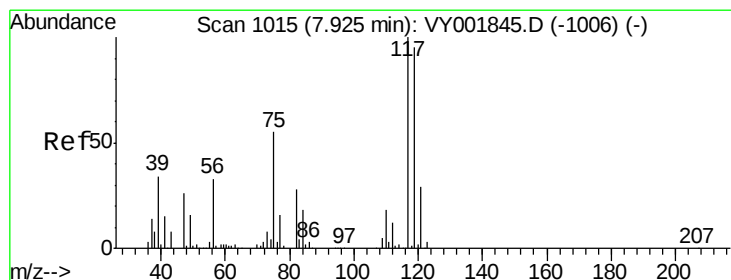
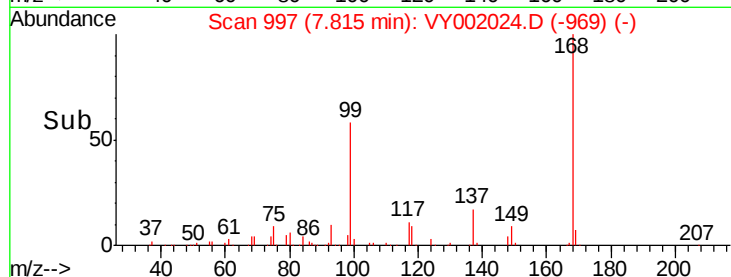
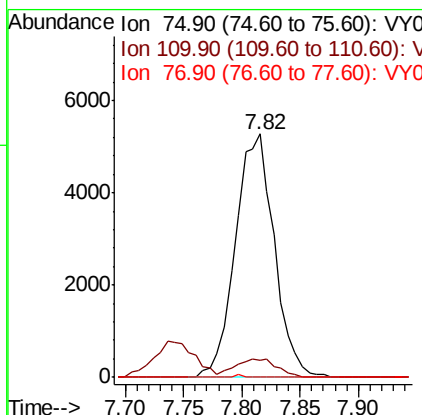
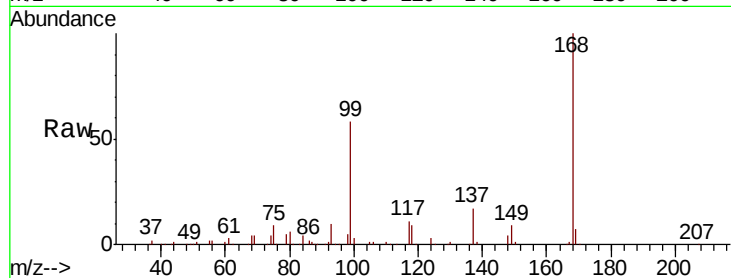




#36
 1,1-Dichloropropene
 Concen: 4.691 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY002024.D
 Acq: 19 Mar 2020 16:12

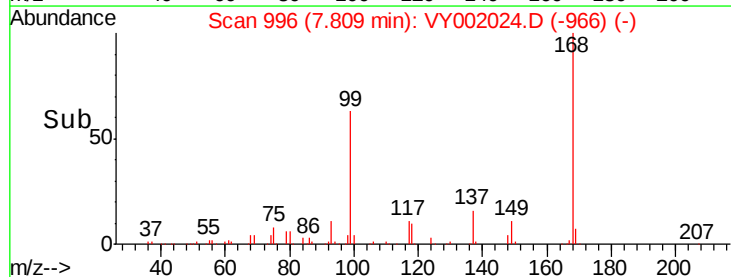
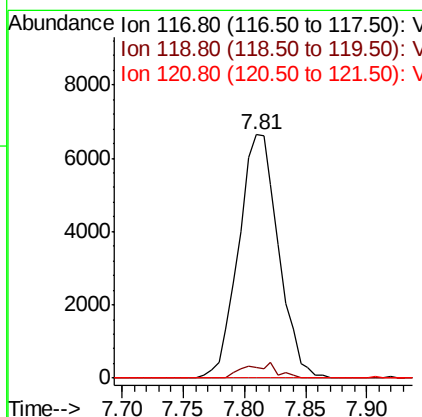
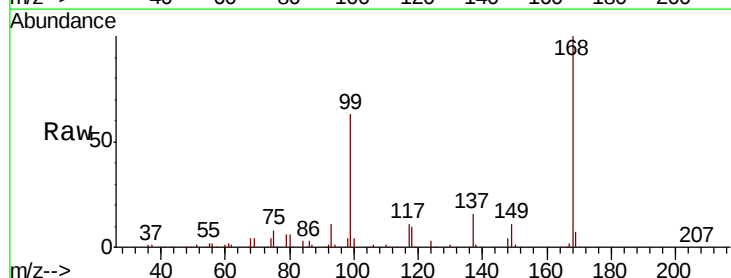
Instrument :
 MSVOA_Y
 ClientSampleId :

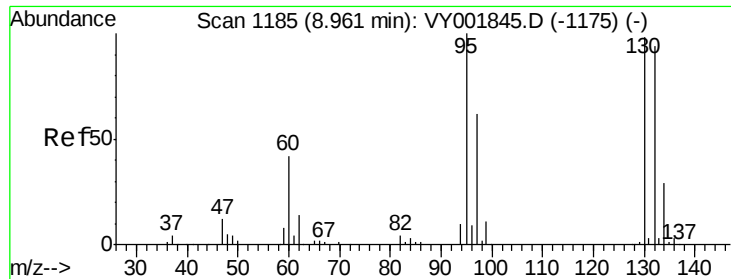
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.4	52.2#
77	0.2	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.731 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.12 min
 Lab File: VY002024.D
 Acq: 19 Mar 2020 16:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	76.3	114.5#
121	0.0	23.5	35.3#





#44

Trichloroethene

Concen: 3.186 ug/l

RT: 8.96 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :

MSVOA_Y

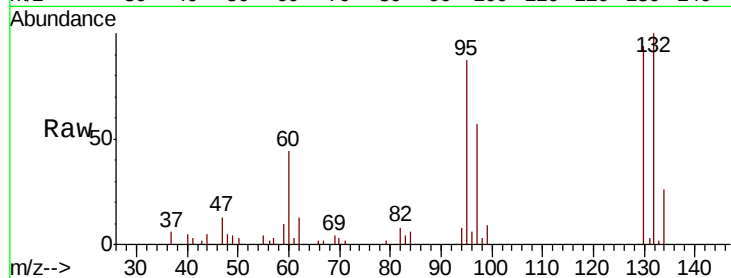
ClientSampleId :

Tot Ion:130 Resp: 6007

Ion Ratio Lower Upper

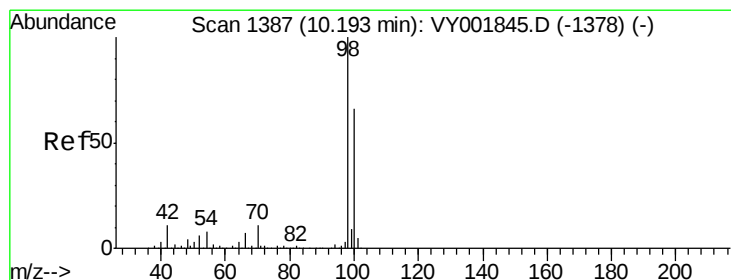
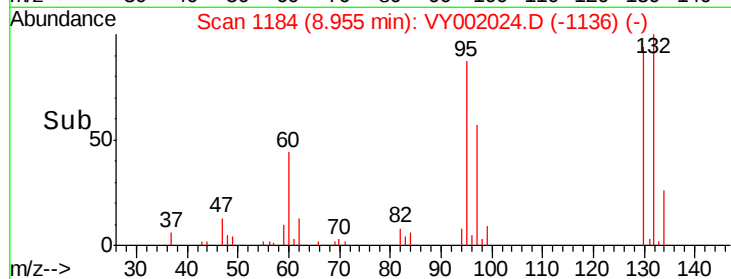
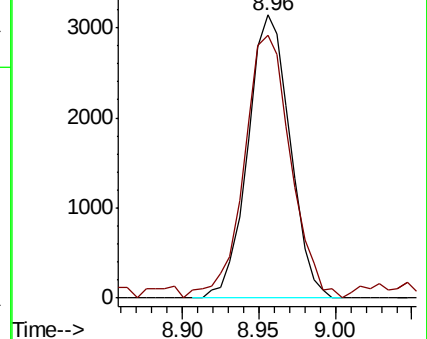
130 100

95 93.1 0.0 204.6



Abundance Ion 129.80 (129.50 to 130.50): VY001845.D (-1175) (-)

Ion 94.90 (94.60 to 95.60): VY001845.D (-1175) (-)



#50

Toluene-d8

Concen: 53.089 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY002024.D

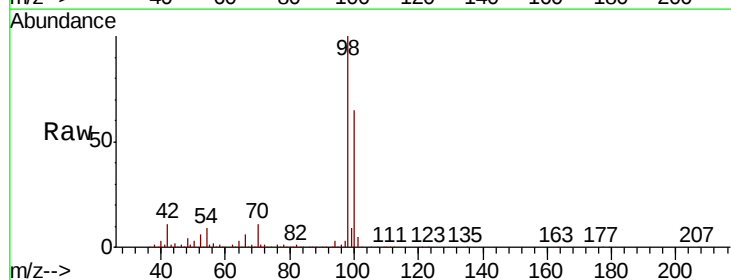
Acq: 19 Mar 2020 16:12

Tgt Ion: 98 Resp: 331829

Ion Ratio Lower Upper

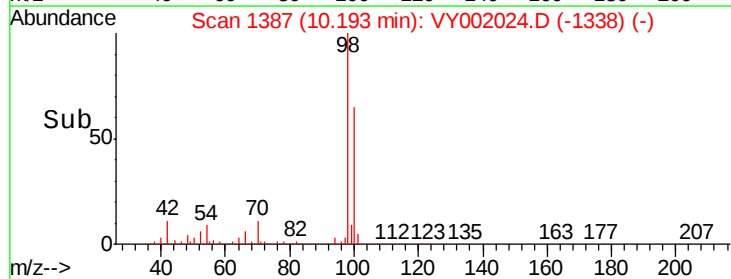
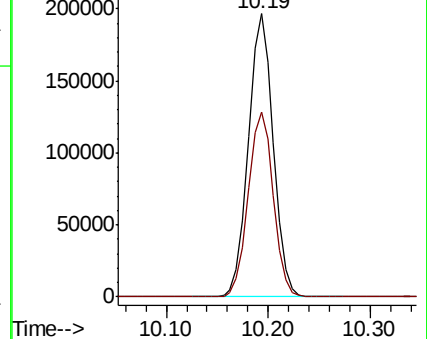
98 100

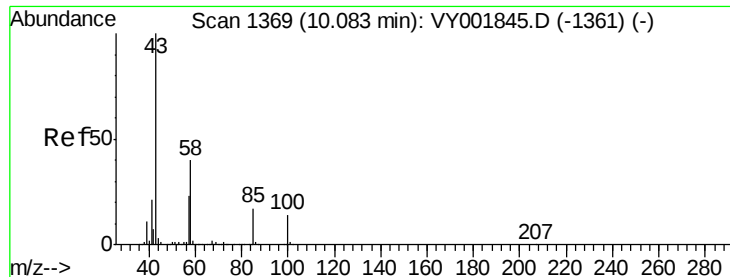
100 65.9 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY001845.D (-1378) (-)

Ion 100.00 (99.70 to 100.70): VY001845.D (-1378) (-)





#51

4-Methyl-2-Pentanone

Concen: 2.028 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :

MSVOA_Y

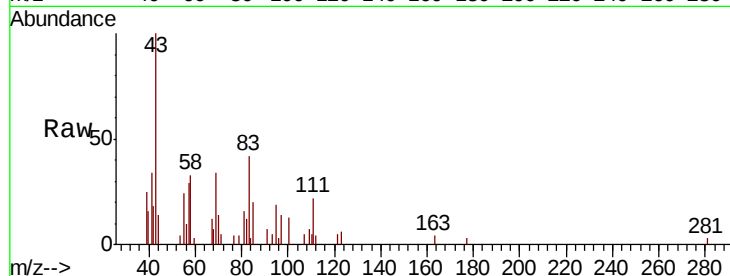
ClientSampleId :

Tot Ion: 43 Resp: 3002

Ion Ratio Lower Upper

43 100

58 40.5 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10.08

2000

1500

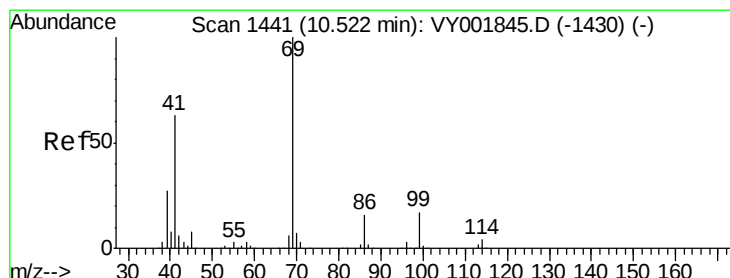
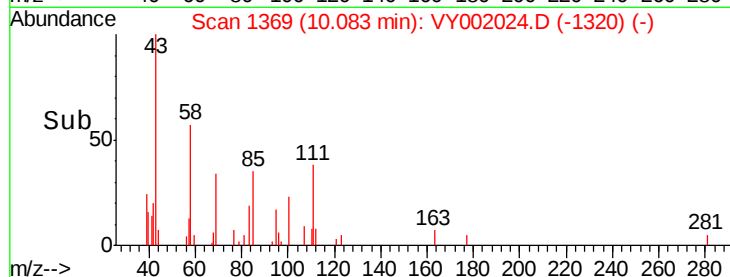
1000

500

0

10.05 10.10

Time-->



#56

Ethyl methacrylate

Concen: 1.809 ug/l

RT: 10.49 min Scan# 1436

Delta R.T. -0.03 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

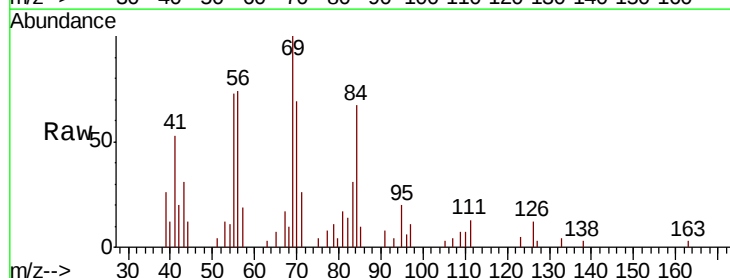
Tgt Ion: 69 Resp: 3893

Ion Ratio Lower Upper

69 100

41 61.4 49.9 74.9

39 29.4 23.0 34.6



Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

2500

2000

1500

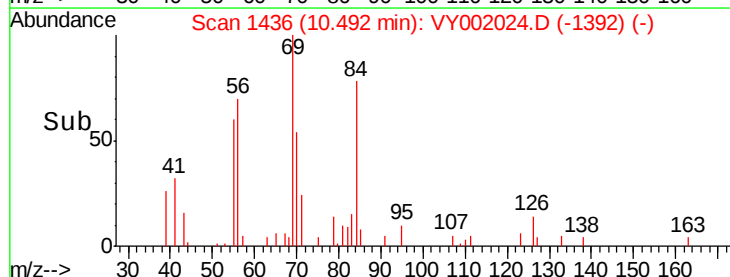
1000

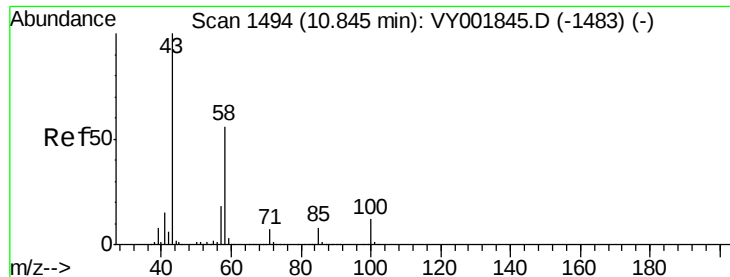
500

0

10.45 10.50 10.55

Time-->

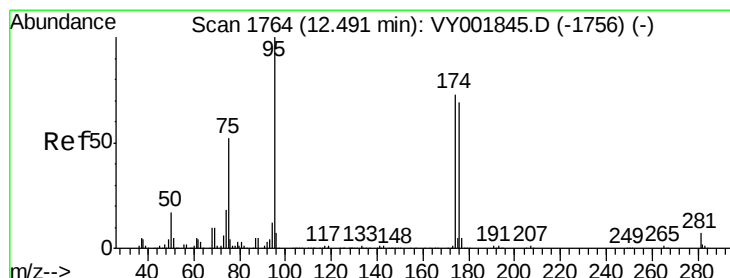
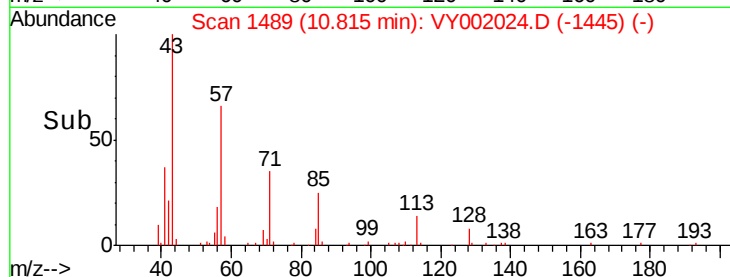
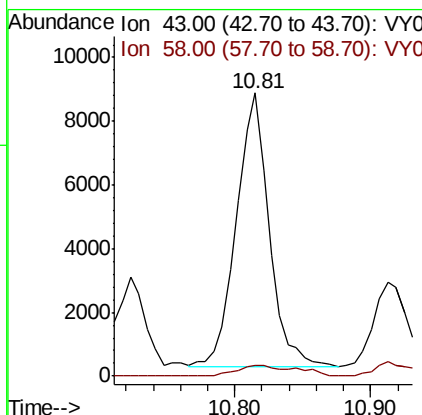
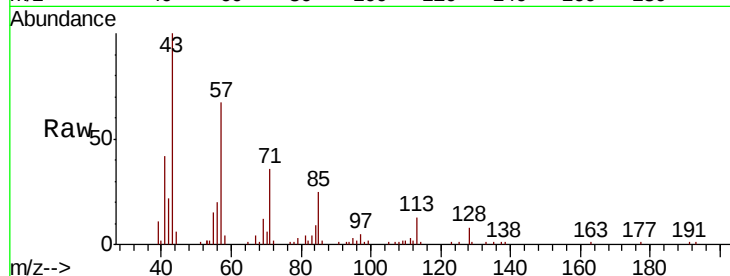




#59
2-Hexanone
Concen: 13.774 ug/l
RT: 10.81 min Scan# 1489
Delta R.T. -0.03 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

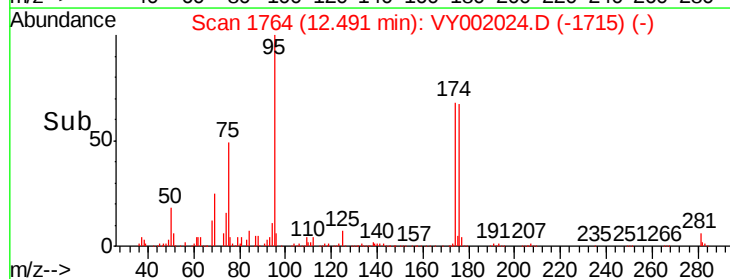
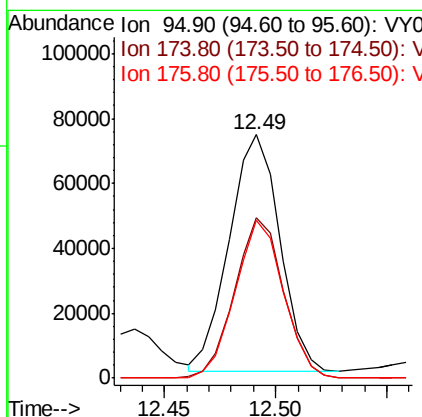
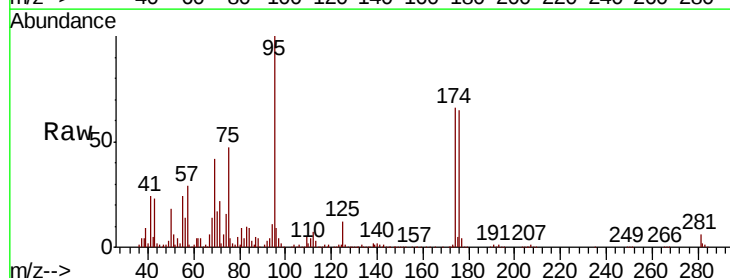
Instrument :
MSVOA_Y
ClientSampleId :

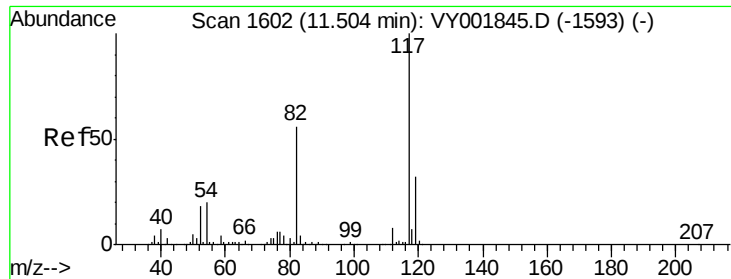
Tot Ion: 43 Resp: 14555
Ion Ratio Lower Upper
43 100
58 5.2 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 53.226 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

Tgt Ion: 95 Resp: 115678
Ion Ratio Lower Upper
95 100
174 65.5 0.0 145.0
176 63.8 0.0 137.4

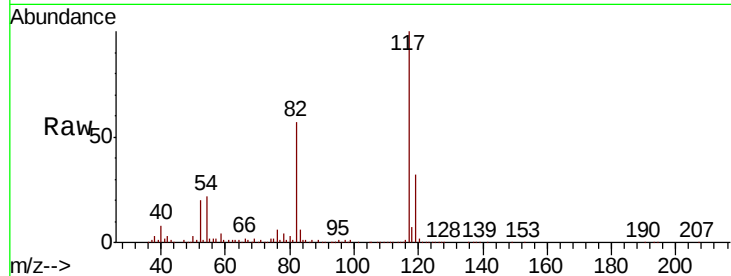




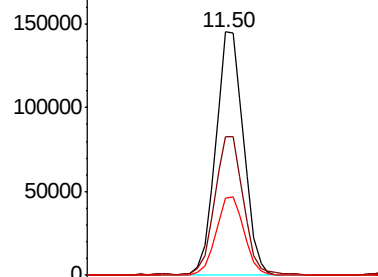
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

Instrument :
MSVOA_Y
ClientSampleId :

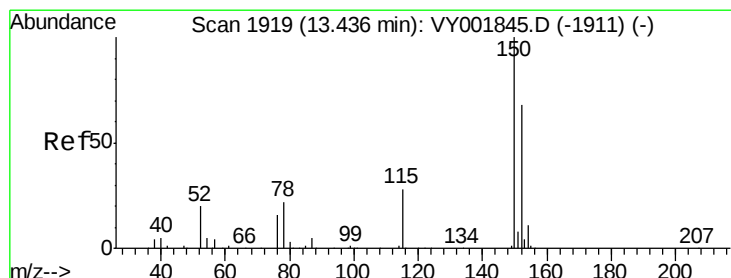
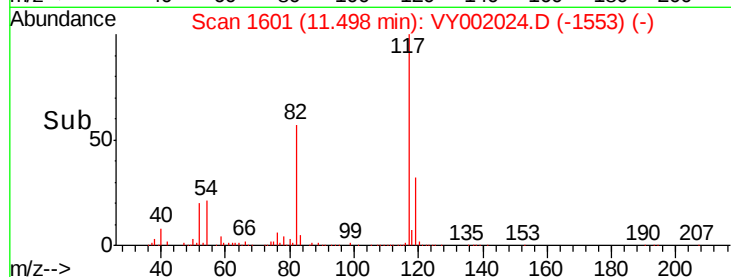
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.9	44.5	66.7
119	31.8	25.7	38.5



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

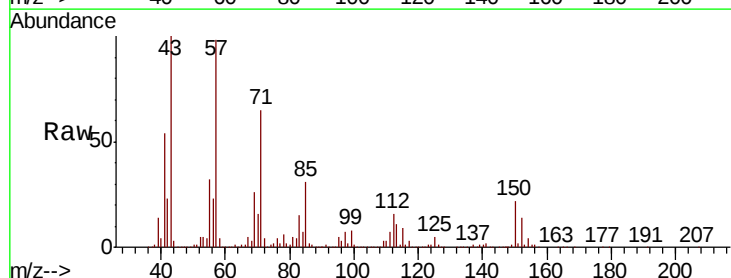


Time-->

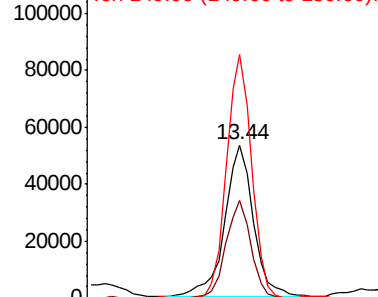


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.00 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

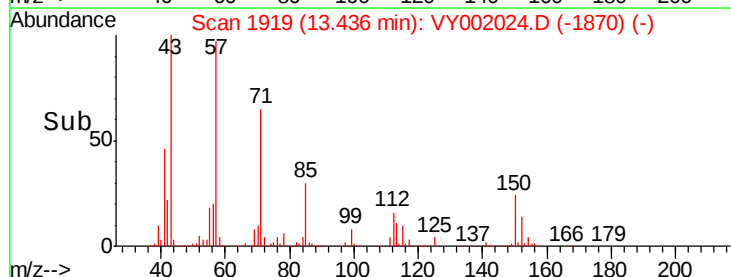
Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	29.9	89.7
150	138.4	0.0	340.6

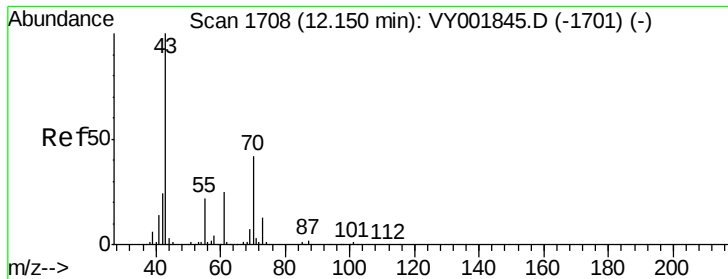


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#74

N-amvl acetate

Concen: 77.787 ug/l

RT: 12.13 min Scan# 1705

Delta R.T. -0.02 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 168024

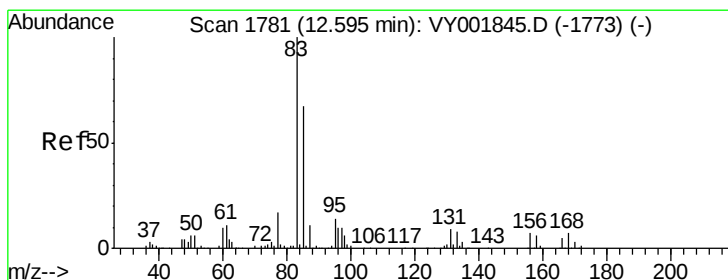
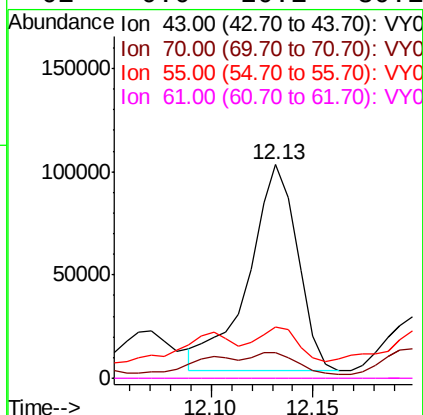
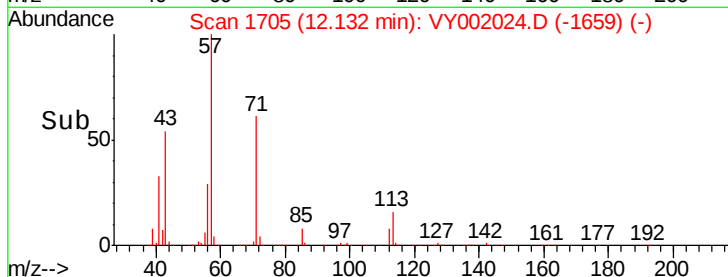
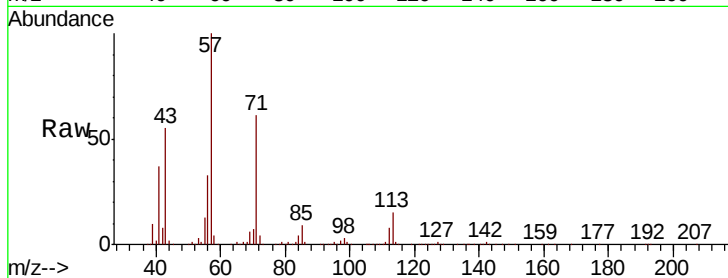
Ion Ratio Lower Upper

43 100

70 9.4 34.7 52.1#

55 13.3 18.2 27.4#

61 0.0 20.1 30.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 61.213 ug/l

RT: 12.66 min Scan# 1791

Delta R.T. 0.06 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

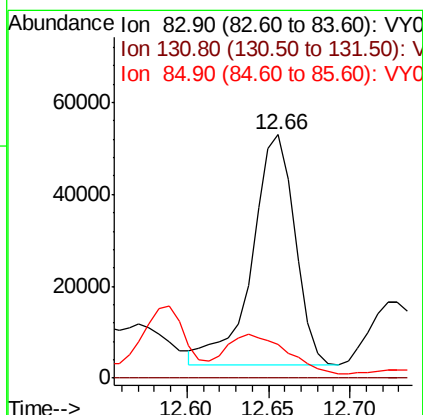
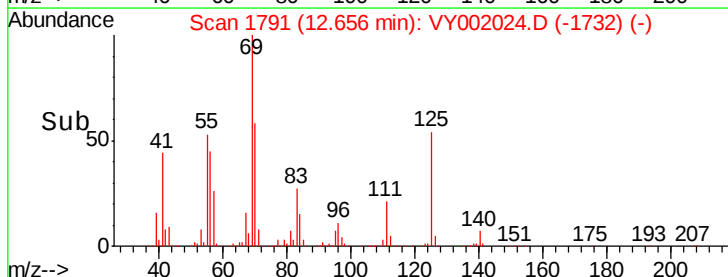
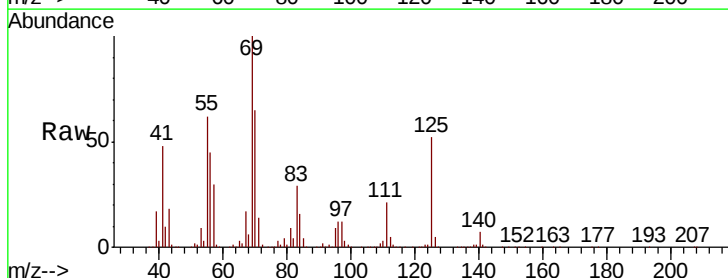
Tgt Ion: 83 Resp: 92775

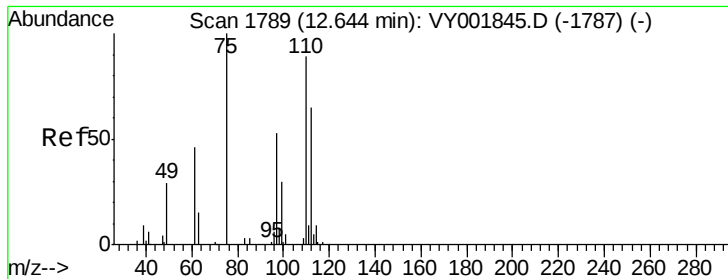
Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 24.4 32.1 96.3#





#76

1,2,3-Trichloropropane

Concen: 48.648 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

Instrument :

MSVOA_Y

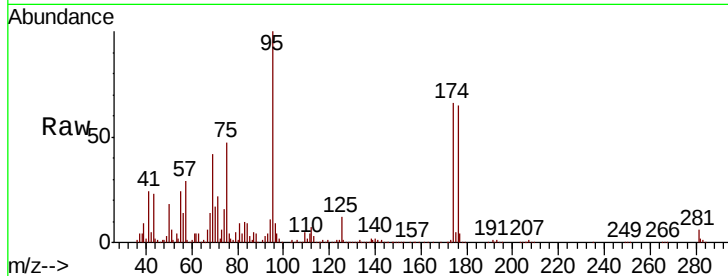
ClientSampleId :

Tot Ion: 75 Resp: 53145

Ion Ratio Lower Upper

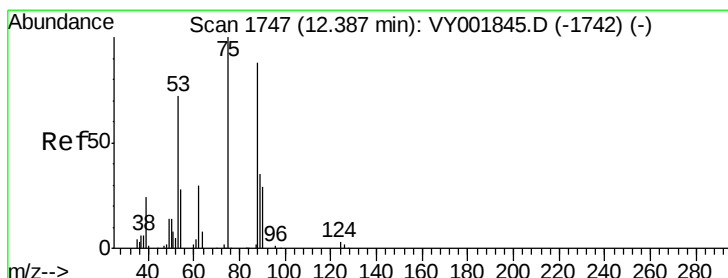
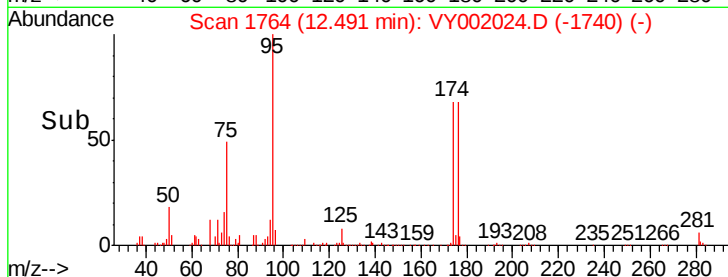
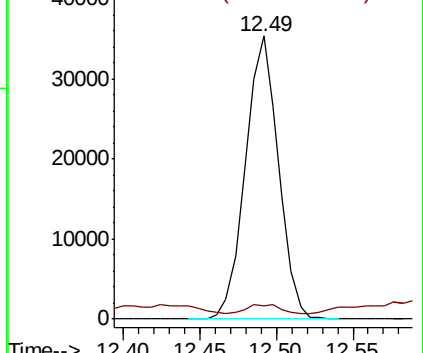
75 100

77 3.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 98.267 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002024.D

Acq: 19 Mar 2020 16:12

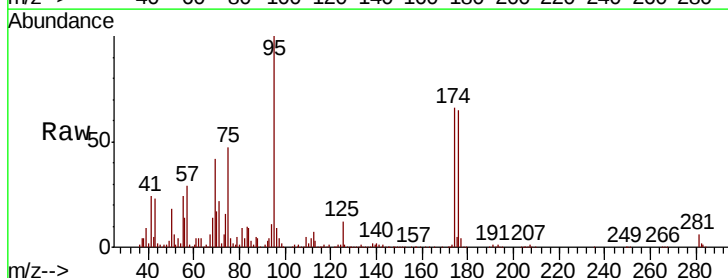
Tgt Ion: 75 Resp: 53145

Ion Ratio Lower Upper

75 100

53 3.3 65.4 98.0#

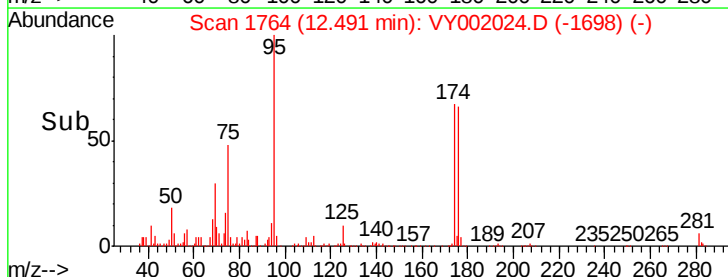
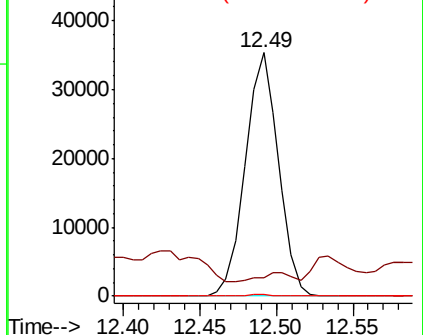
89 0.4 36.0 54.0#

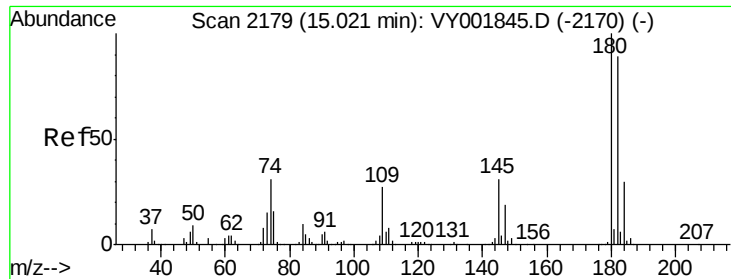


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

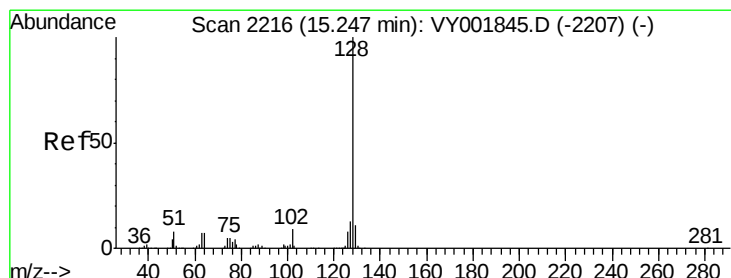
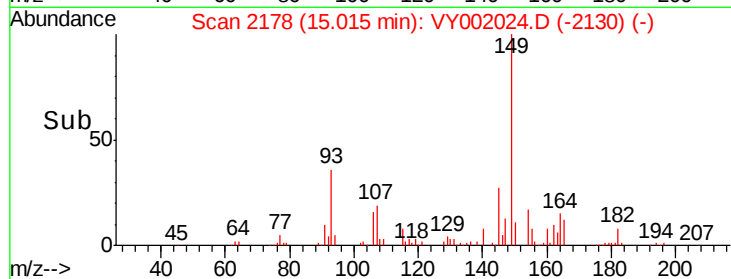
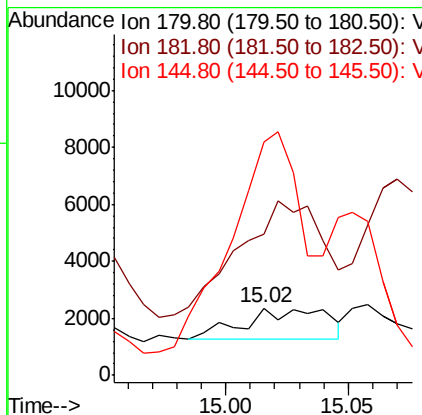
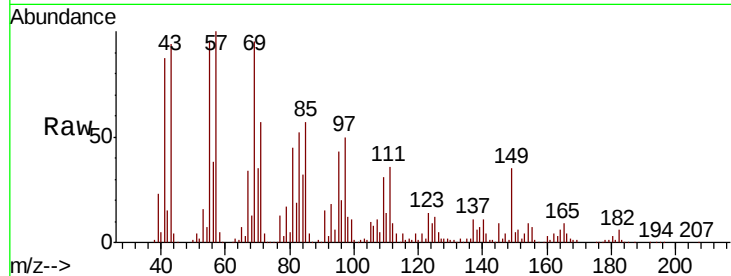




#93
1,2,4-Trichlorobenzene
Concen: 1.418 ug/l
RT: 15.02 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

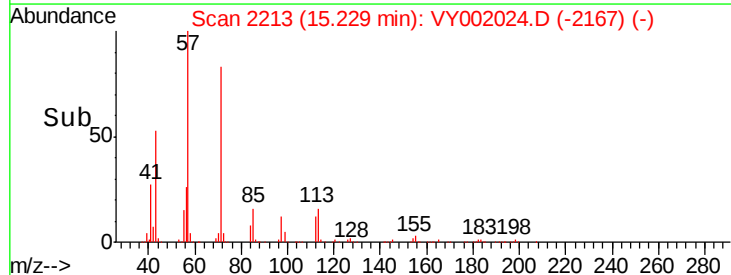
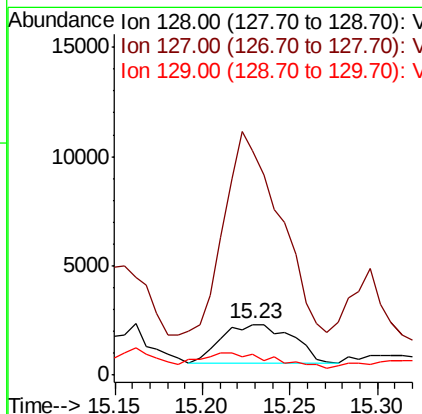
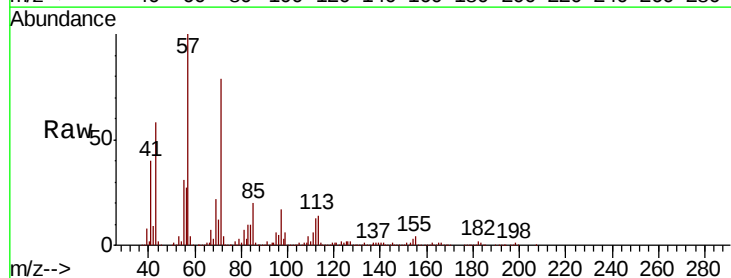
Instrument :
MSVOA_Y
ClientSampleId :

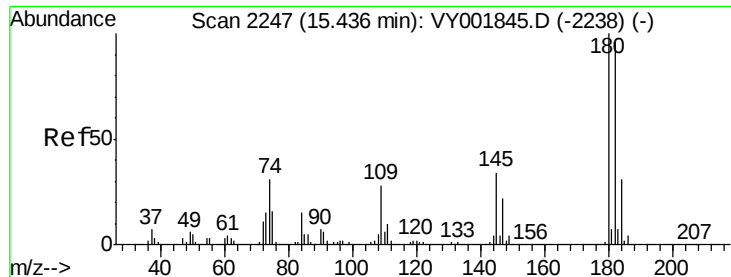
Tot Ion:180 Resp: 2438
Ion Ratio Lower Upper
180 100
182 404.8 46.1 138.3#
145 783.8 15.6 46.8#



#95
Naphthalene
Concen: 1.235 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. -0.02 min
Lab File: VY002024.D
Acq: 19 Mar 2020 16:12

Tgt Ion:128 Resp: 5035
Ion Ratio Lower Upper
128 100
127 404.8 10.1 15.1#
129 40.1 8.6 13.0#

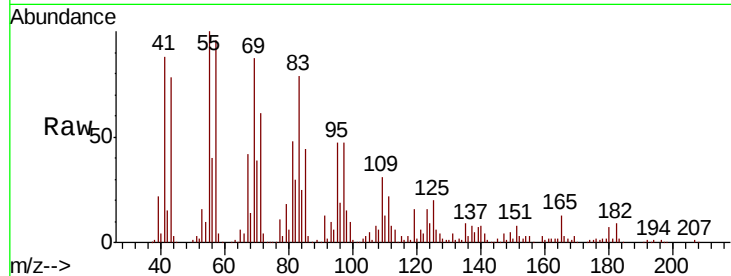




#96
 1,2,3-Trichlorobenzene
 Concen: 2.503 ug/l
 RT: 15.52 min Scan# 2260
 Delta R.T. 0.08 min
 Lab File: VY002024.D
 Acq: 19 Mar 2020 16:12

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.8	47.6	142.9
145	20.0	16.8	50.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

