

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022120\
 Data File : VY001754.D
 Acq On : 21 Feb 2020 19:31
 Operator : SY/MD
 Sample : L1650-04
 Misc : 6.79G/5ML/MSVOA Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 22 03:45:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	157815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	295267	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	268415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	116892	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	94283	55.54	ug/l	0.00
Spiked Amount			Recovery	=	111.08%	
35) Dibromofluoromethane	7.75	113	84483	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
50) Toluene-d8	10.19	98	360925	54.48	ug/l	0.00
Spiked Amount			Recovery	=	108.96%	
62) 4-Bromofluorobenzene	12.49	95	123506	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	

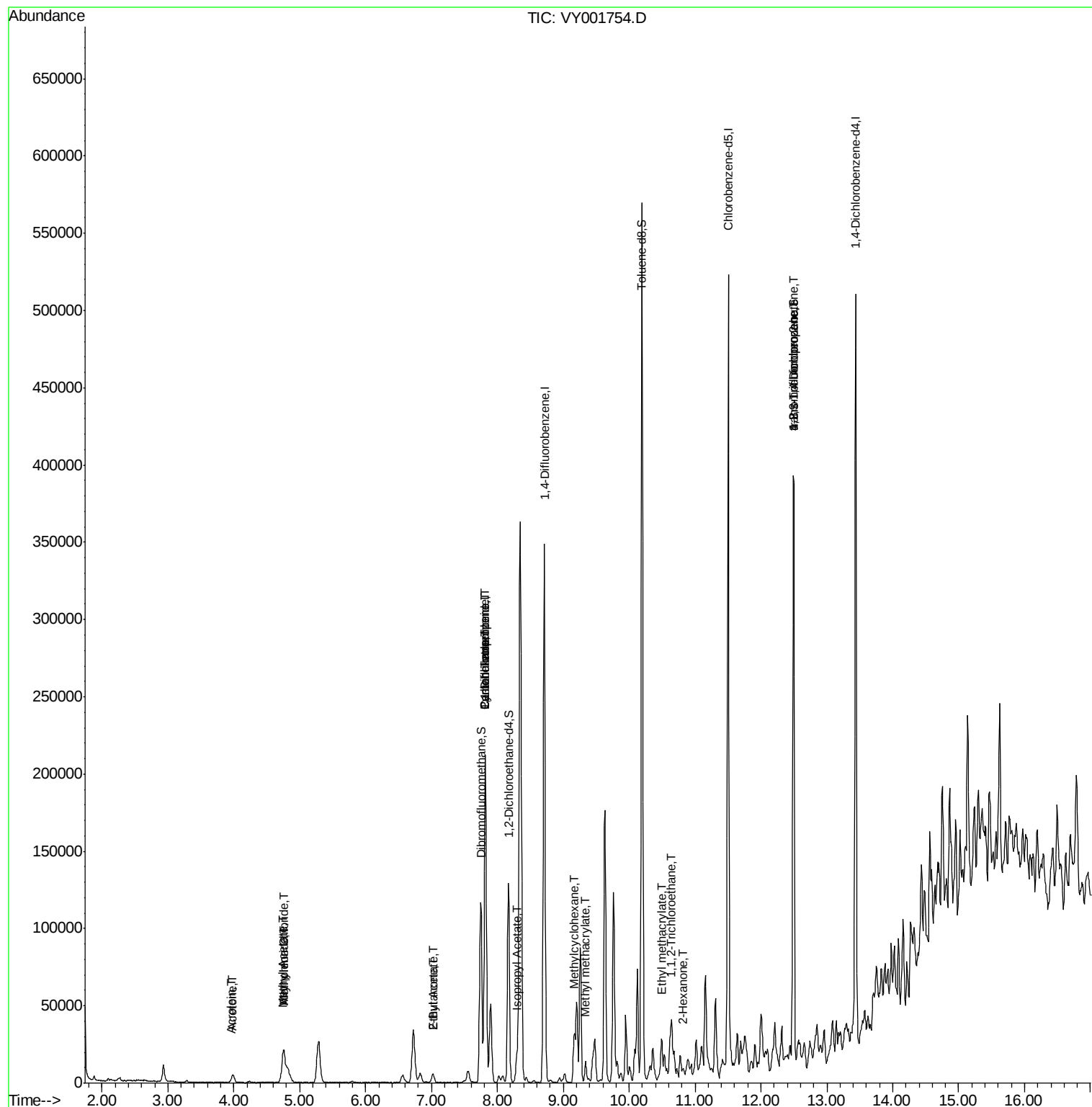
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	44	Below Cal	#	74
13) Acrolein	3.96	56	226	1.318	ug/l #	15
14) Allyl chloride	4.76	41	5954	1.954	ug/l #	64
16) Acetone	3.98	43	6342	10.797	ug/l	94
18) Methyl Acetate	4.74	43	14370	11.234	ug/l #	51
20) Methylene Chloride	4.77	84	7858	3.766	ug/l	98
25) 2-Butanone	7.02	43	2042	2.559	ug/l #	89
31) Cyclohexane	7.82	56	5413	1.518	ug/l #	3
36) 1,1-Dichloropropene	7.82	75	13475	4.778	ug/l #	50
37) Ethyl Acetate	7.02	43	2042	1.213	ug/l #	1
38) Carbon Tetrachloride	7.82	117	16011	6.463	ug/l #	17
39) Methylcyclohexane	9.17	83	7302	1.952	ug/l #	28
43) Isopropyl Acetate	8.29	43	4789	1.499	ug/l #	53
48) Methyl methacrylate	9.34	41	2494	1.727	ug/l #	36
55) 1,1,2-Trichloroethane	10.63	97	7939	4.955	ug/l #	30
56) Ethyl methacrylate	10.49	69	7723	3.213	ug/l	89
58) 2-Chloroethyl Vinyl ether	9.76	63	167	Below Cal	#	48
59) 2-Hexanone	10.81	43	2836	2.303	ug/l #	30
76) 1,2,3-Trichloropropane	12.49	75	62311	46.469	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	62311	88.160	ug/l #	18

(#) = 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# 998

Delta R.T. 0.01 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Instrument :

MSVOA_Y

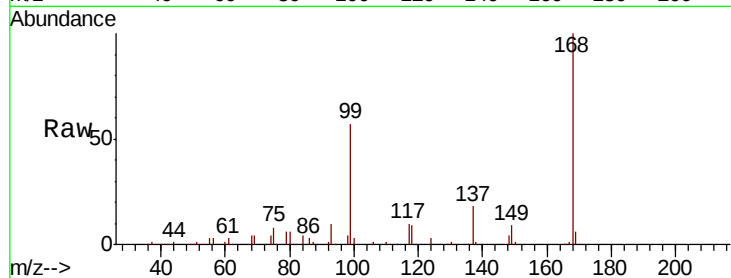
ClientSampleId :

Tot Ion:168 Resp: 157815

Ion Ratio Lower Upper

168 100

99 57.1 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001638.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001638.D (-987) (-)

7.82

80000

60000

40000

20000

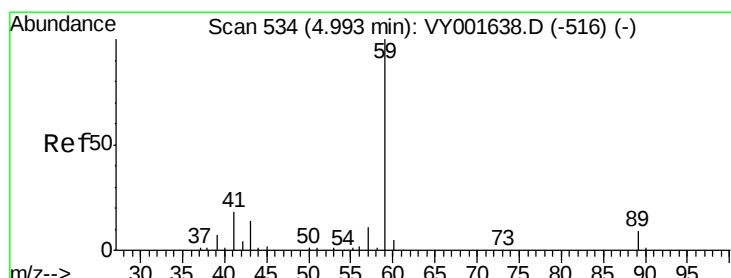
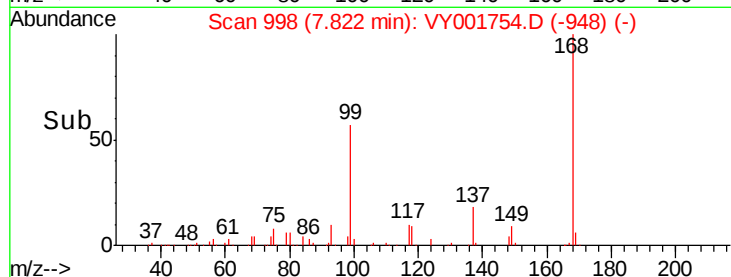
0

Time-->

7.70

7.80

7.90



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.01 min

Lab File: VY001754.D

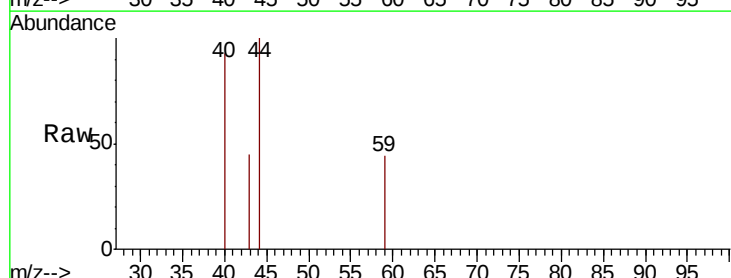
Acq: 21 Feb 2020 19:31

Tgt Ion: 59 Resp: 44

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001638.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY001638.D (-516) (-)

4.98

60

40

20

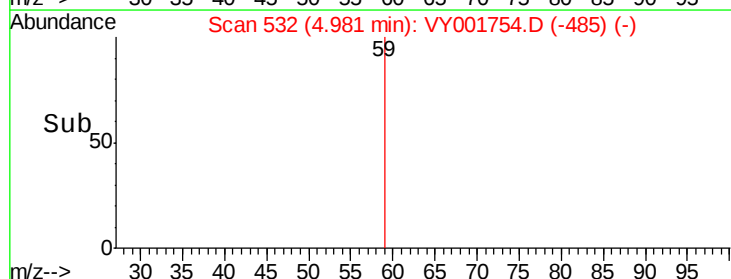
0

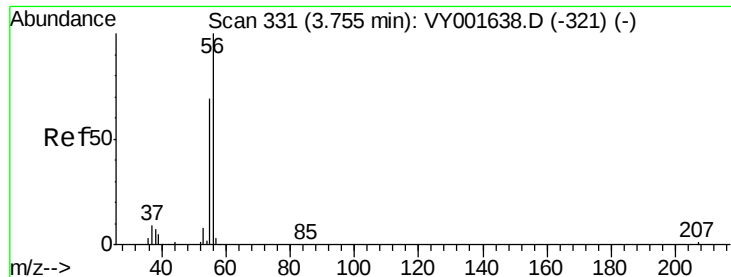
Time-->

4.96

4.98

5.00





#13

Acrolein

Concen: 1.318 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.20 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Instrument :

MSVOA_Y

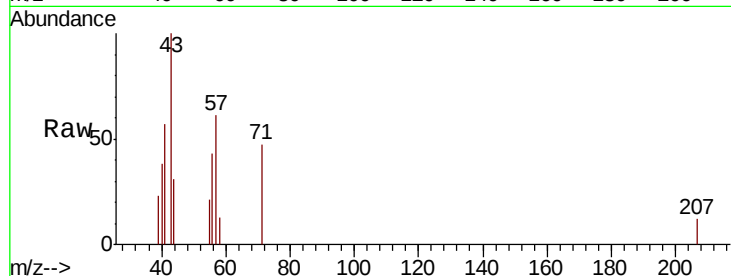
ClientSampled :

Tot Ion: 56 Resp: 226

Ion Ratio Lower Upper

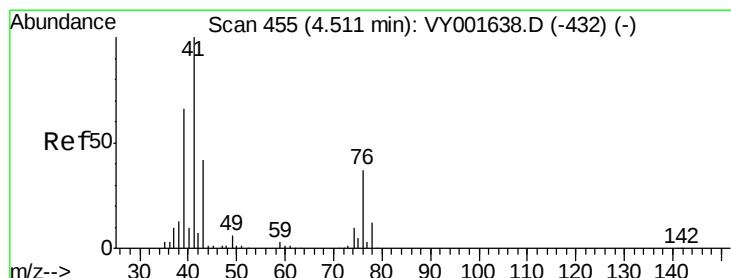
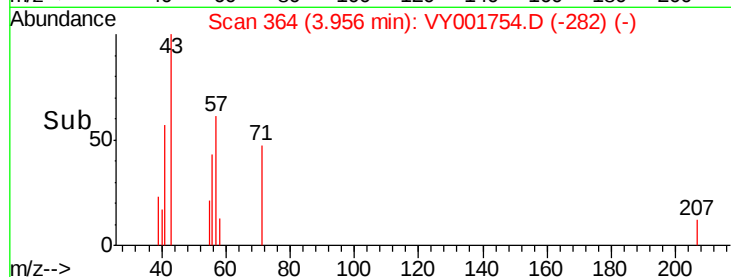
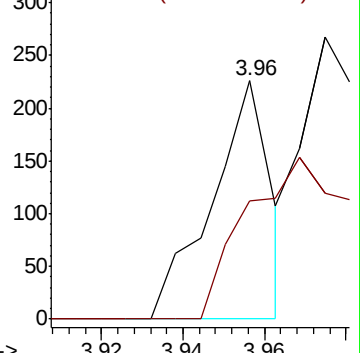
56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 1.954 ug/l

RT: 4.76 min Scan# 495

Delta R.T. 0.24 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

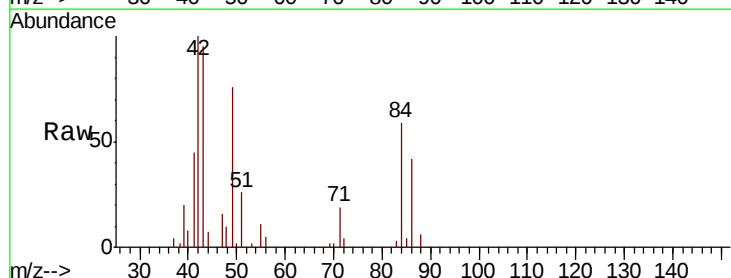
Tgt Ion: 41 Resp: 5954

Ion Ratio Lower Upper

41 100

39 45.7 49.4 74.0#

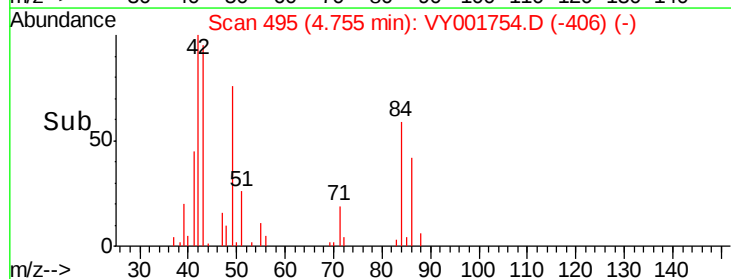
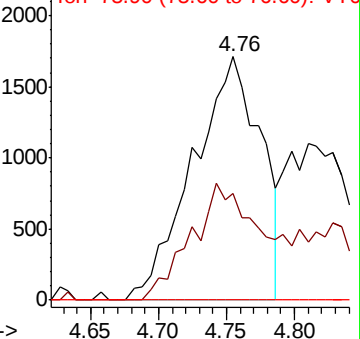
76 0.0 29.0 43.6#

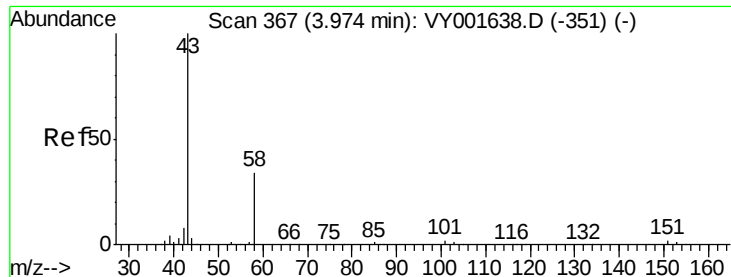


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#16

Acetone

Concen: 10.797 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.01 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Instrument :

MSVOA_Y

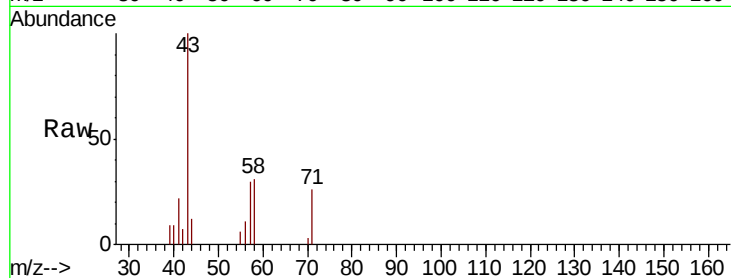
ClientSampleId :

Tot Ion: 43 Resp: 6342

Ion Ratio Lower Upper

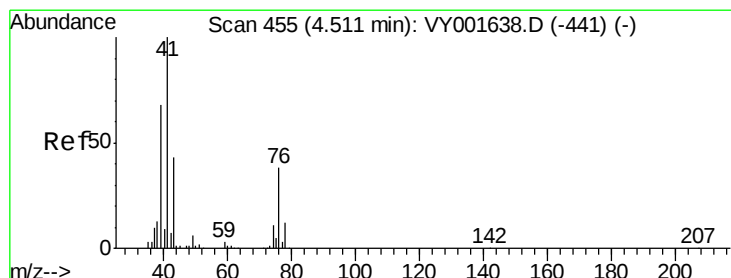
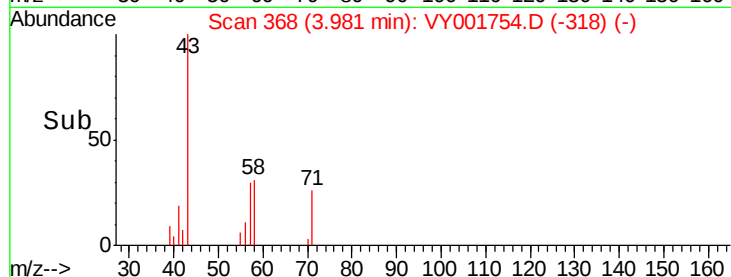
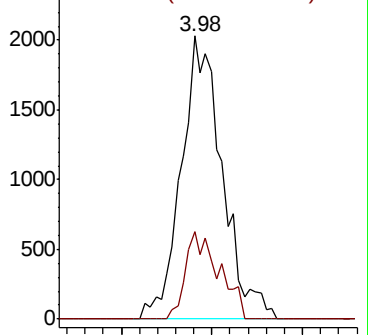
43 100

58 30.8 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VY001638.D (-351) (-)

Ion 58.00 (57.70 to 58.70): VY001638.D (-351) (-)



#18

Methyl Acetate

Concen: 11.234 ug/l

RT: 4.74 min Scan# 493

Delta R.T. 0.23 min

Lab File: VY001754.D

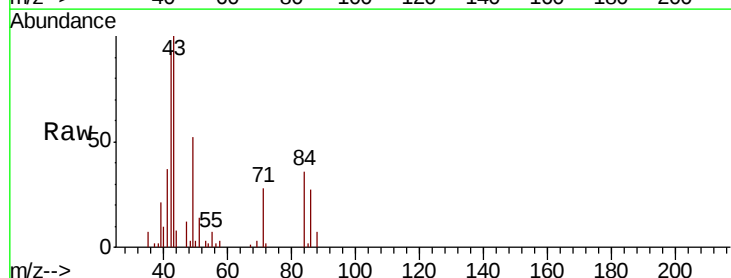
Acq: 21 Feb 2020 19:31

Tgt Ion: 43 Resp: 14370

Ion Ratio Lower Upper

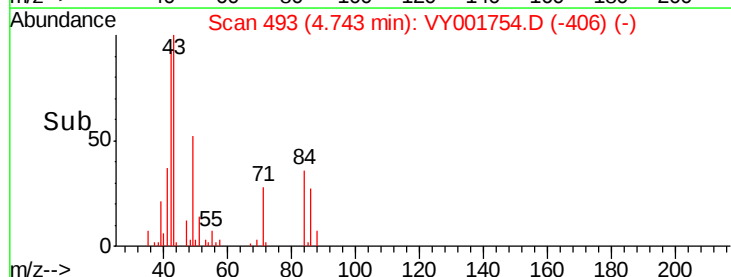
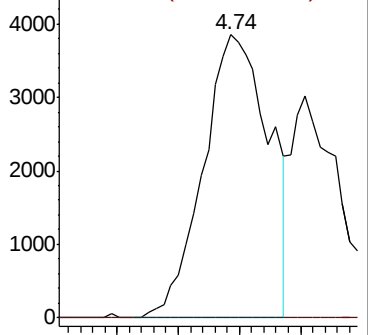
43 100

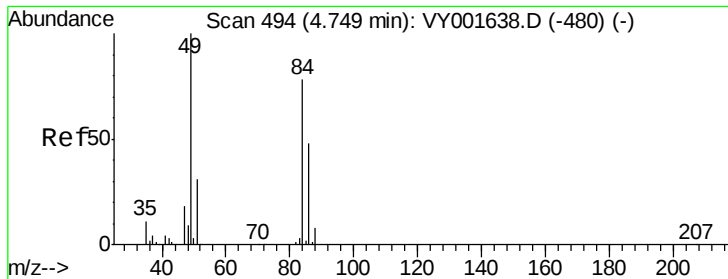
74 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VY001638.D (-441) (-)

Ion 74.00 (73.70 to 74.70): VY001638.D (-441) (-)

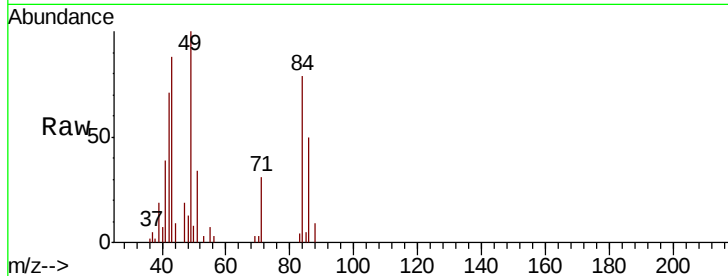




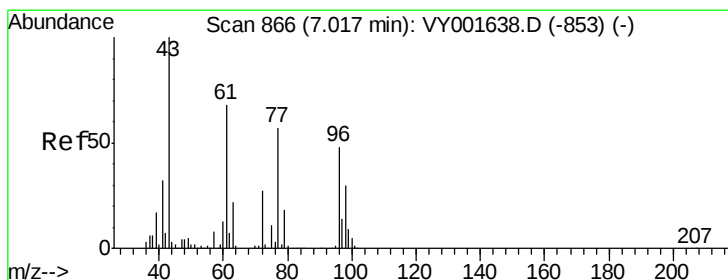
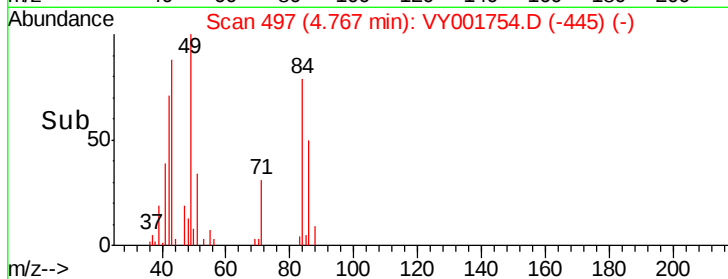
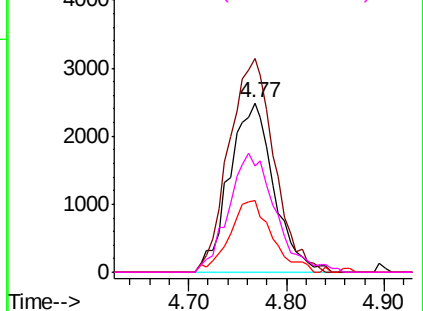
#20
Methvlene Chloride
Concen: 3.766 ug/l
RT: 4.77 min Scan# 497
Delta R.T. 0.02 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 84 Resp: 7858
Ion Ratio Lower Upper
84 100
49 126.3 99.2 148.8
51 42.7 31.5 47.3
86 62.6 51.0 76.6

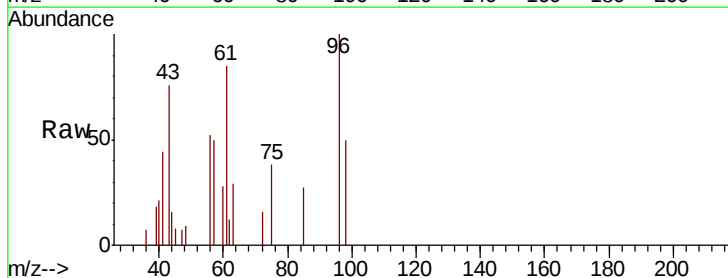


Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0

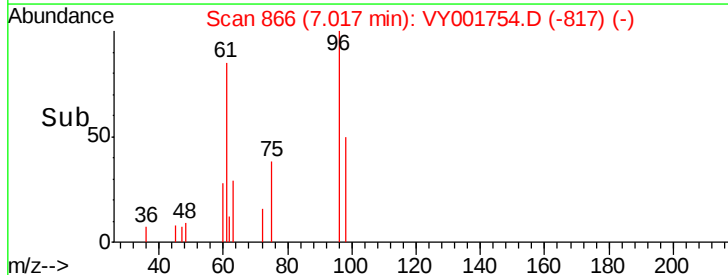
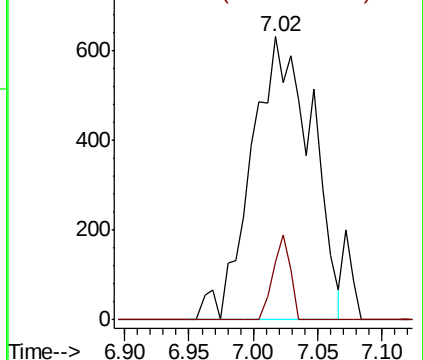


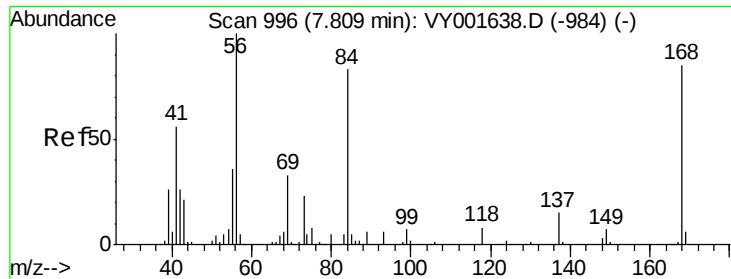
#25
2-Butanone
Concen: 2.559 ug/l
RT: 7.02 min Scan# 866
Delta R.T. 0.00 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Tgt Ion: 43 Resp: 2042
Ion Ratio Lower Upper
43 100
72 20.6 21.2 31.8#



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

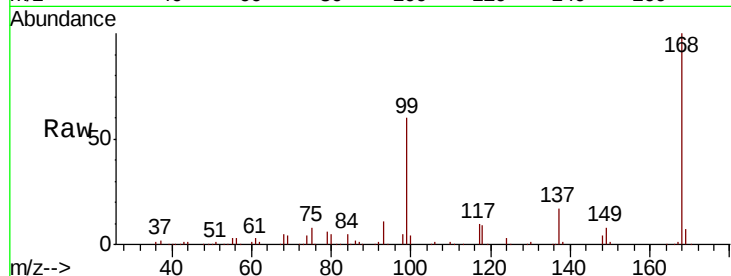




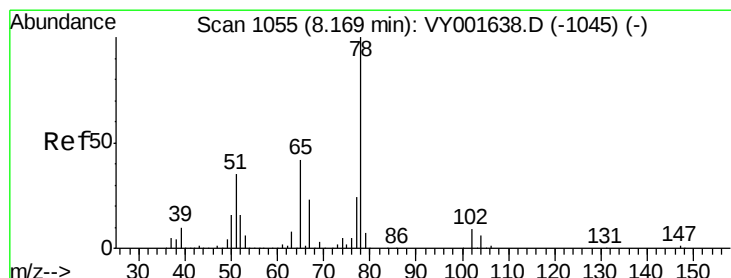
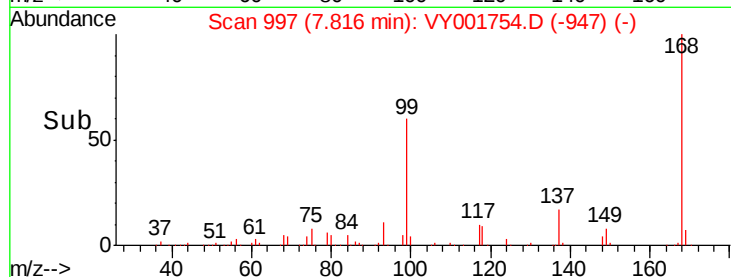
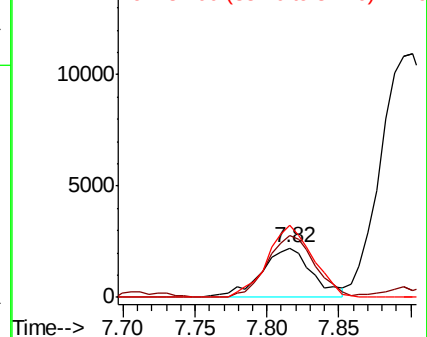
#31
Cyclohexane
Concen: 1.518 ug/l
RT: 7.82 min Scan# 997
Delta R.T. 0.01 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 56 Resp: 5413
Ion Ratio Lower Upper
56 100
69 124.5 25.1 37.7#
84 146.6 66.9 100.3#

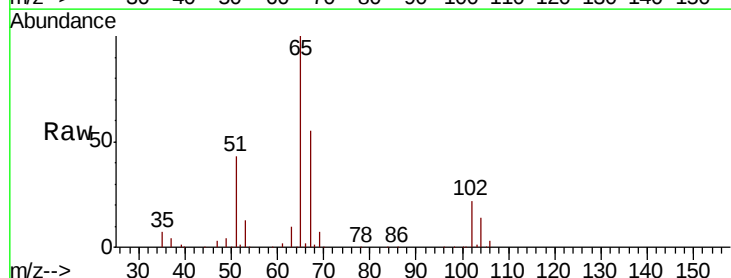


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

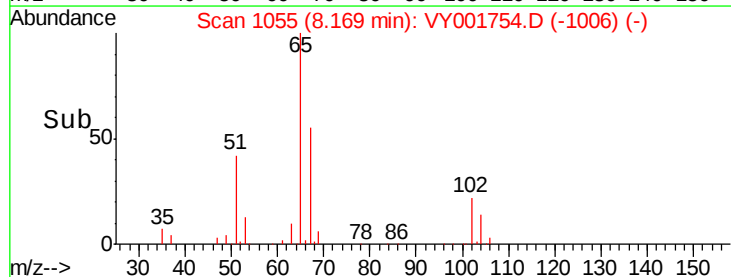
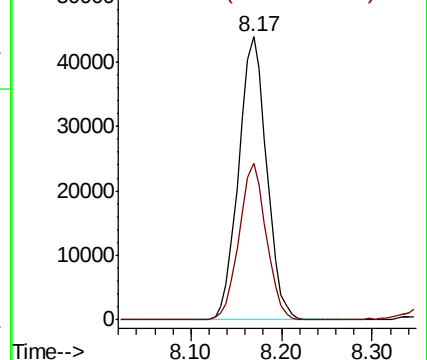


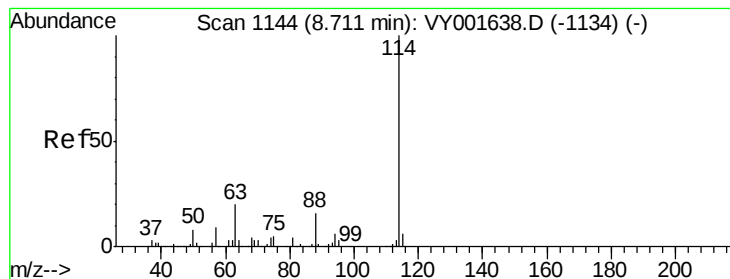
#33
1,2-Dichloroethane-d4
Concen: 55.541 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Tgt Ion: 65 Resp: 94283
Ion Ratio Lower Upper
65 100
67 53.5 0.0 111.0



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

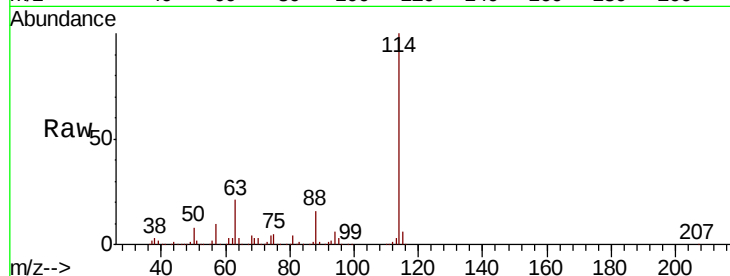
Delta R.T. 0.00 min

Lab File: VY001754.D

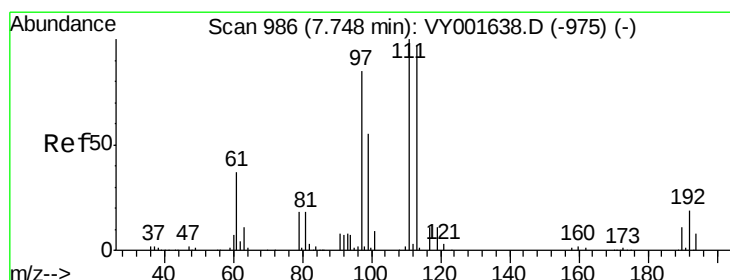
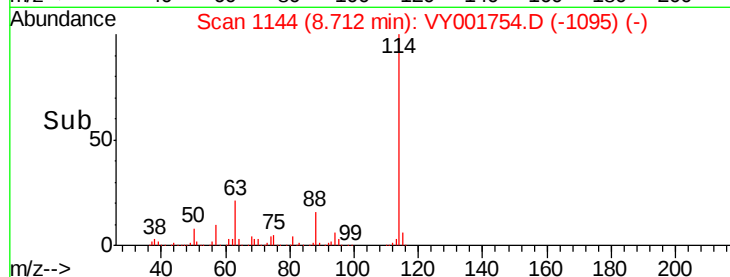
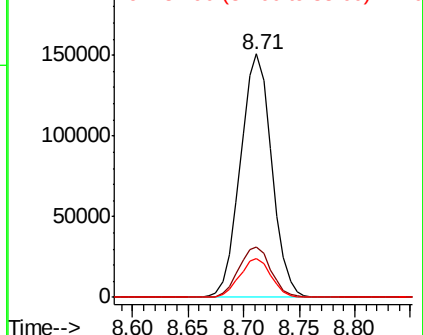
Acq: 21 Feb 2020 19:31

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:114	Resp:	295267
Ion Ratio	Lower	Upper
114 100		
63 20.8	0.0	41.4
88 16.1	0.0	32.8



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: 49.956 ug/l

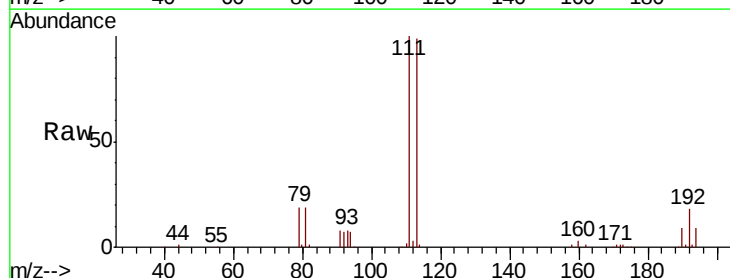
RT: 7.75 min Scan# 986

Delta R.T. 0.00 min

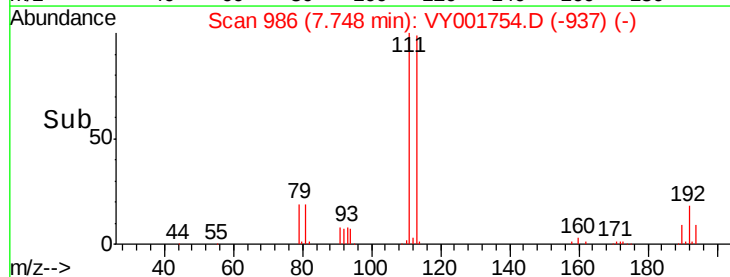
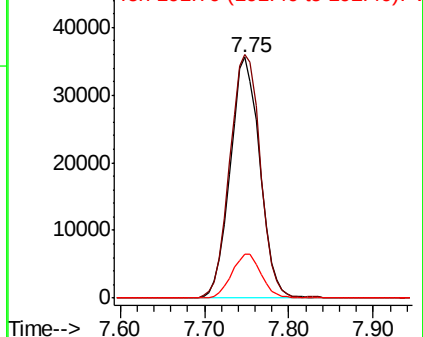
Lab File: VY001754.D

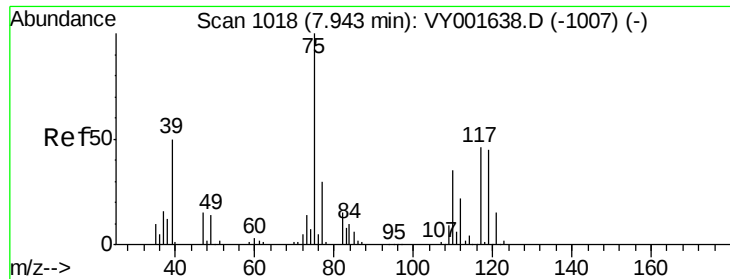
Acq: 21 Feb 2020 19:31

Tgt Ion:113	Resp:	84483
Ion Ratio	Lower	Upper
113 100		
111 104.0	81.9	122.9
192 18.2	14.3	21.5



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

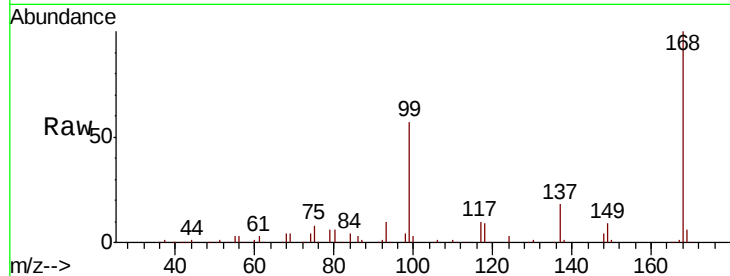




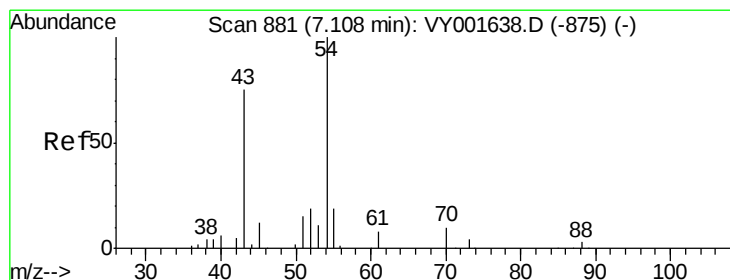
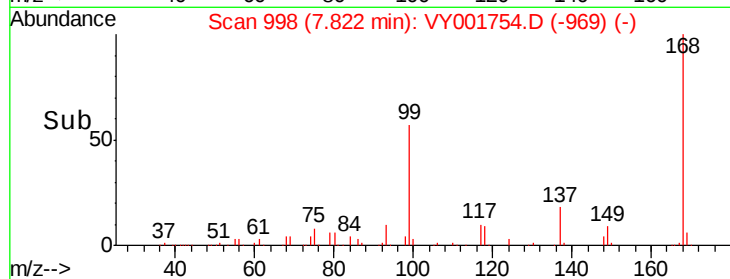
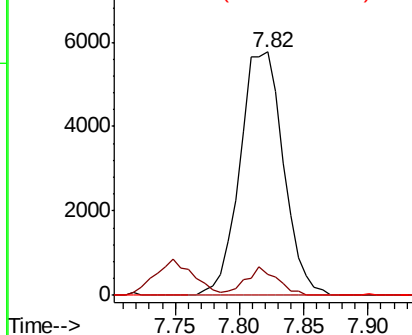
#36
 1,1-Dichloropropene
 Concen: 4.778 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.12 min
 Lab File: VY001754.D
 Acq: 21 Feb 2020 19:31

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	75	Resp	13475
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	17.2	51.6#
77	0.0	24.8	37.2#

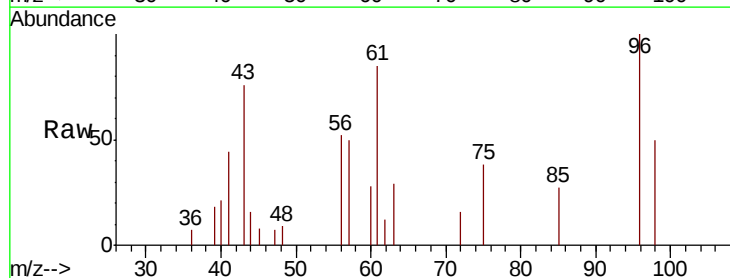


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

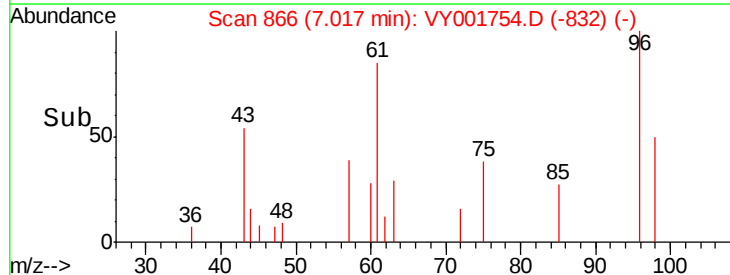
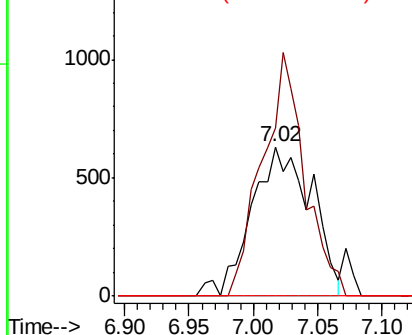


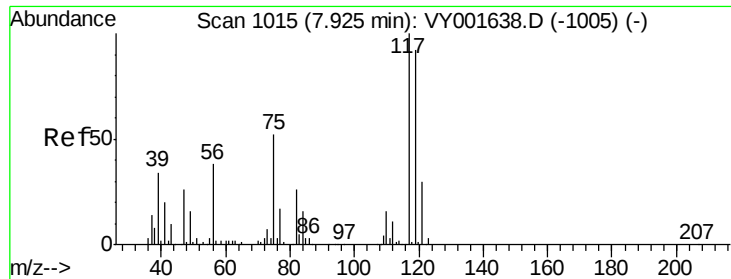
#37
 Ethyl Acetate
 Concen: 1.213 ug/l
 RT: 7.02 min Scan# 866
 Delta R.T. -0.09 min
 Lab File: VY001754.D
 Acq: 21 Feb 2020 19:31

Tgt Ion	43	Resp	2042
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	115.1	11.0	16.6#
70	0.0	8.8	13.2#



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

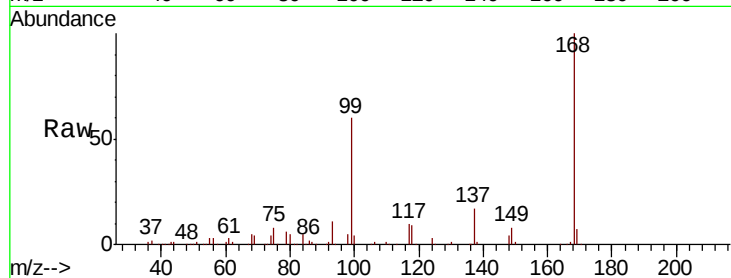




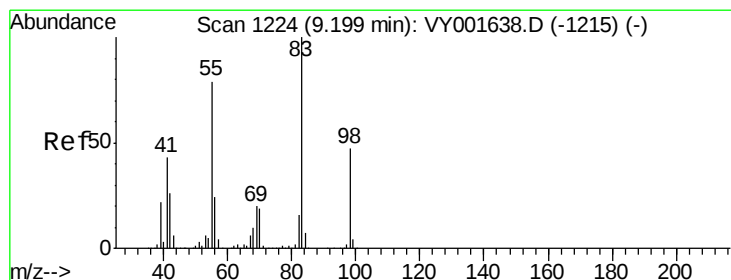
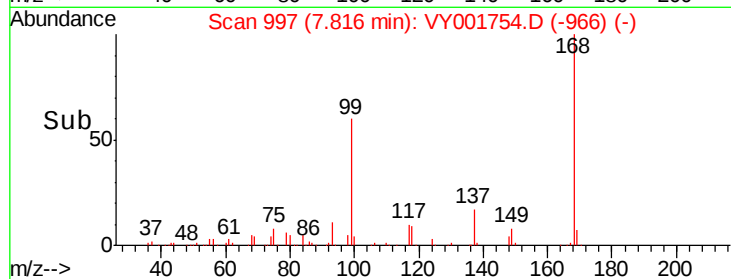
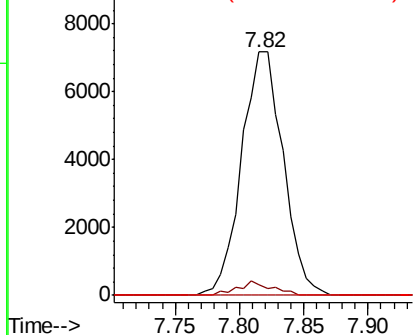
#38
Carbon Tetrachloride
Concen: 6.463 ug/l
RT: 7.82 min Scan# 997
Delta R.T. -0.11 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 16011
Ion Ratio Lower Upper
117 100
119 4.4 74.8 112.2#
121 0.0 23.8 35.6#

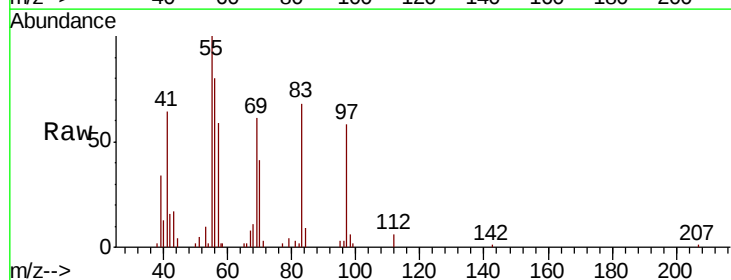


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

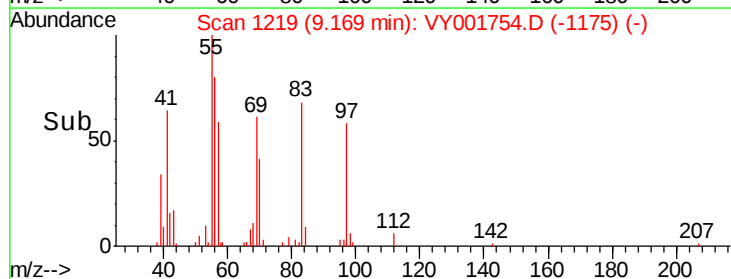
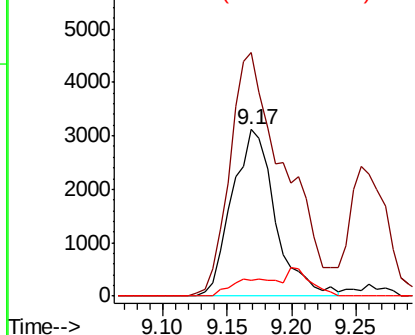


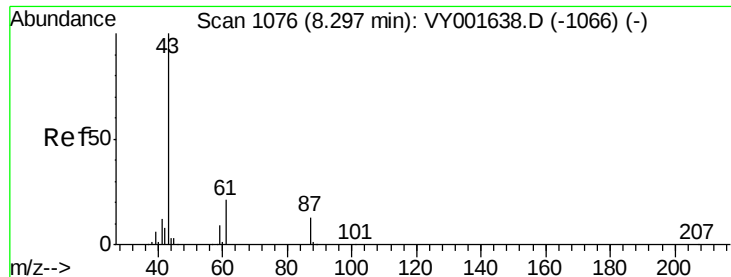
#39
Methylcyclohexane
Concen: 1.952 ug/l
RT: 9.17 min Scan# 1219
Delta R.T. -0.03 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Tgt Ion: 83 Resp: 7302
Ion Ratio Lower Upper
83 100
55 146.5 61.3 91.9#
98 9.4 38.0 57.0#



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

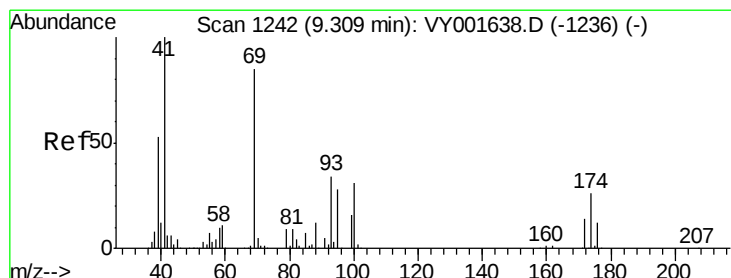
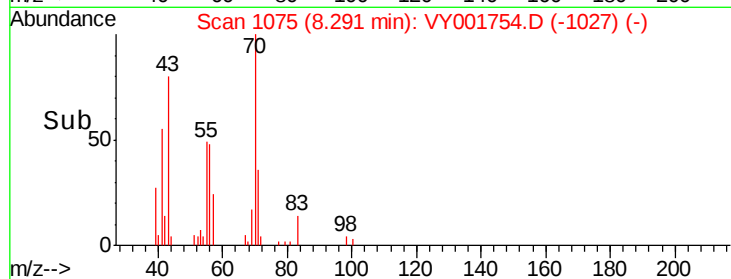
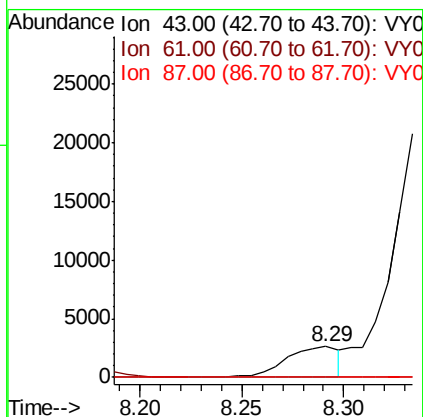
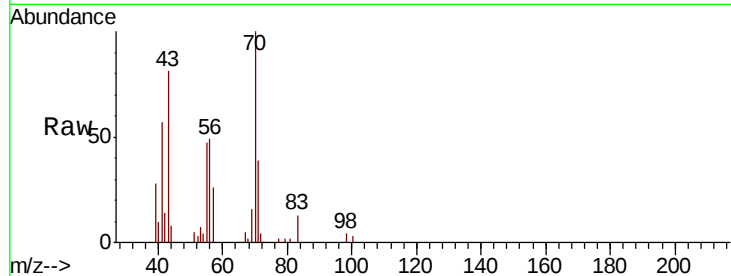




#43
Isopropyl Acetate
Concen: 1.499 ug/l
RT: 8.29 min Scan# 1075
Delta R.T. -0.01 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

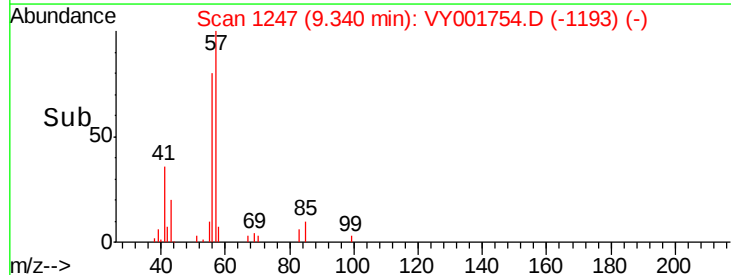
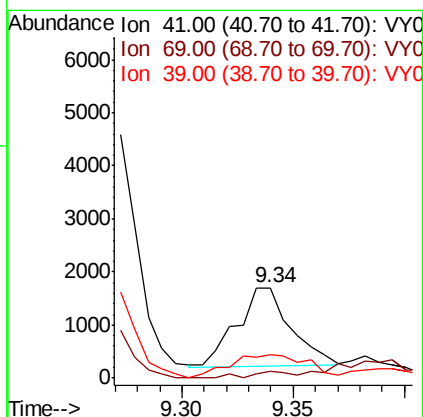
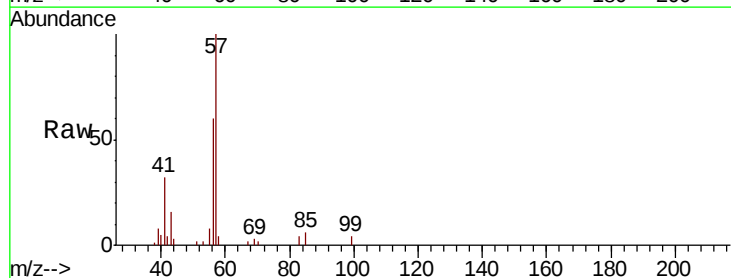
Instrument :
MSVOA_Y
ClientSampled :

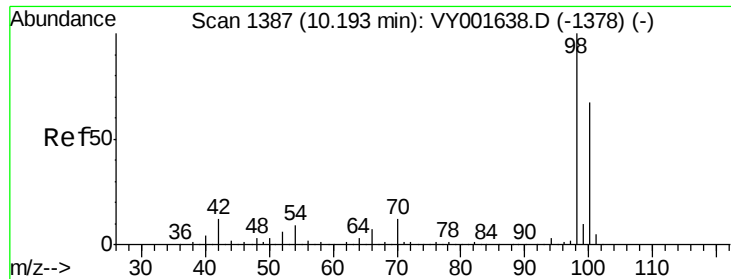
Tot Ion: 43 Resp: 4789
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.4#
87 0.0 10.7 16.1#



#48
Methyl methacrylate
Concen: 1.727 ug/l
RT: 9.34 min Scan# 1247
Delta R.T. 0.03 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Tgt Ion: 41 Resp: 2494
Ion Ratio Lower Upper
41 100
69 0.0 70.7 106.1#
39 43.6 42.2 63.2





#50

Toluene-d8

Concen: 54.476 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Instrument :

MSVOA_Y

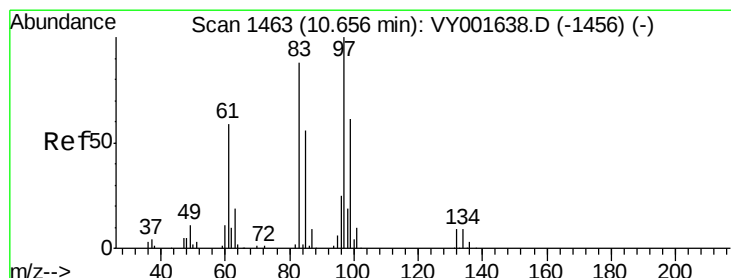
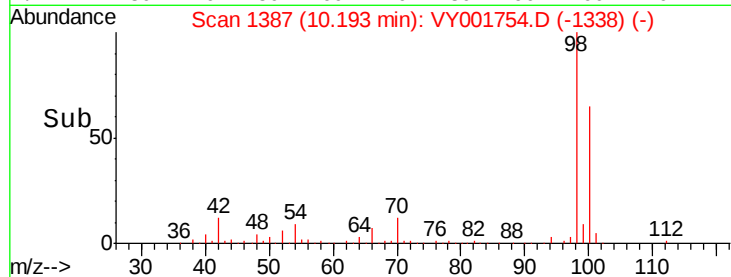
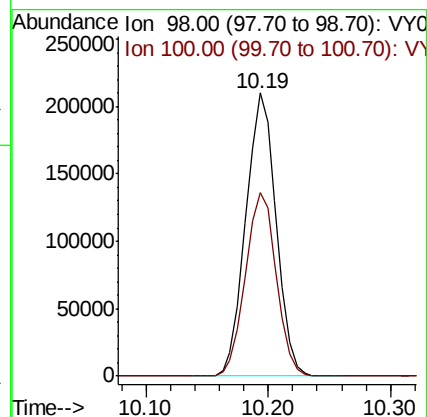
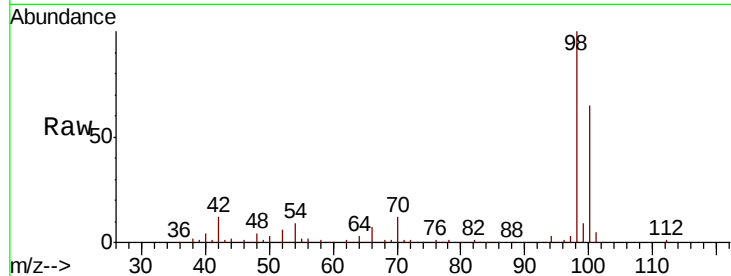
ClientSampleId :

Tot Ion: 98 Resp: 360925

Ion Ratio Lower Upper

98 100

100 65.9 53.0 79.4



#55

1,1,2-Trichloroethane

Concen: 4.955 ug/l

RT: 10.63 min Scan# 1459

Delta R.T. -0.02 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Tgt Ion: 97 Resp: 7939

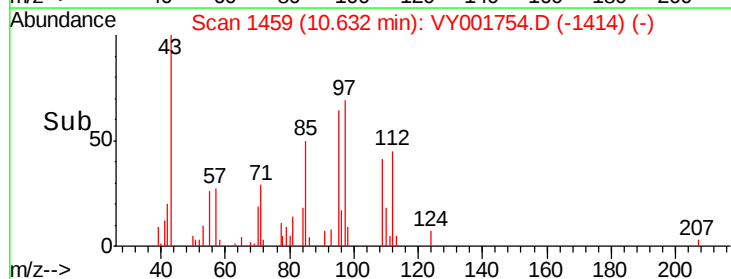
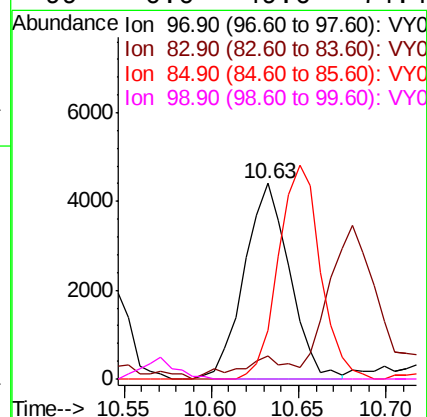
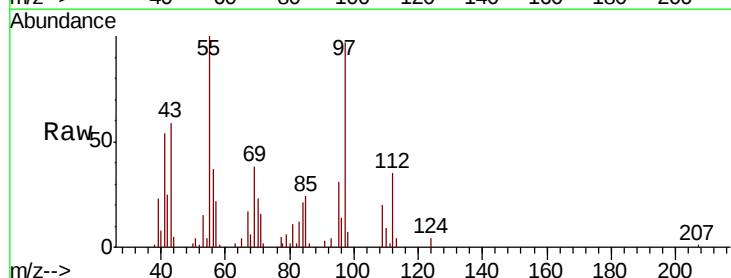
Ion Ratio Lower Upper

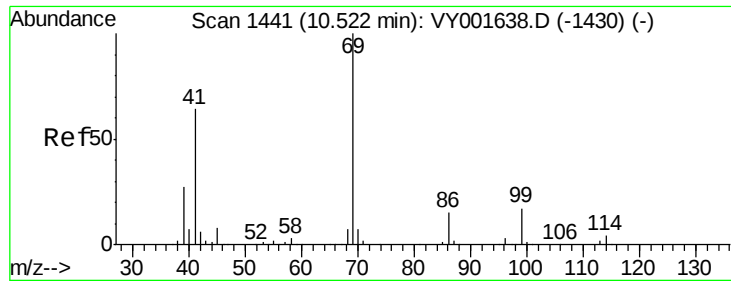
97 100

83 12.0 69.7 104.5#

85 25.1 44.5 66.7#

99 0.0 49.6 74.4#





#56

Ethyl methacrylate

Concen: 3.213 ug/l

RT: 10.49 min Scan# 1436

Delta R.T. -0.03 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Instrument :

MSVOA_Y

ClientSampled :

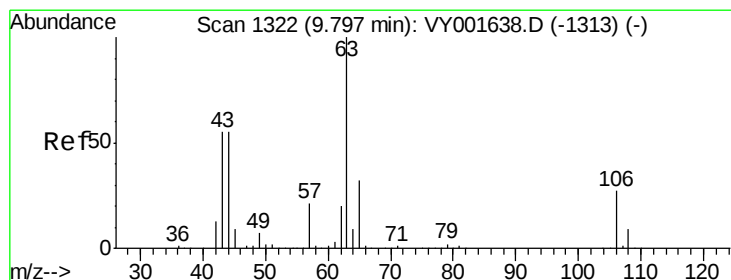
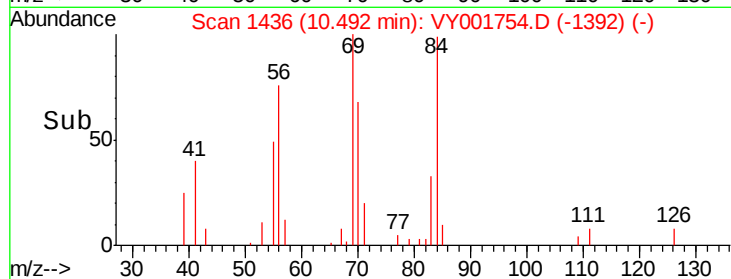
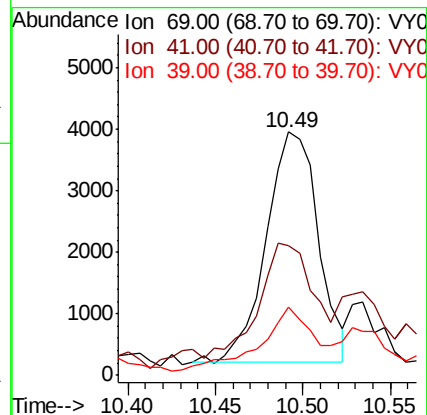
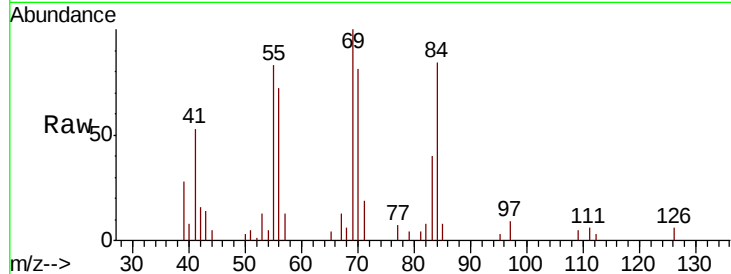
Tot Ion: 69 Resp: 7723

Ion Ratio Lower Upper

69 100

41 52.3 51.0 76.4

39 29.5 24.7 37.1



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 9.76 min Scan# 1316

Delta R.T. -0.04 min

Lab File: VY001754.D

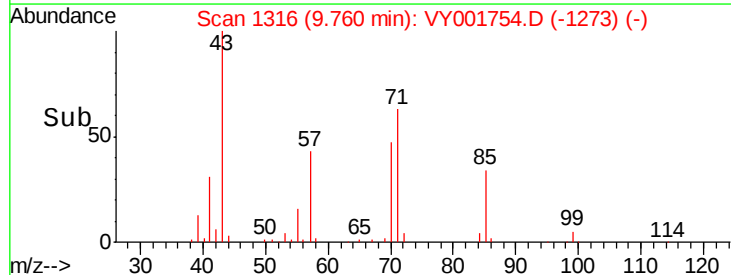
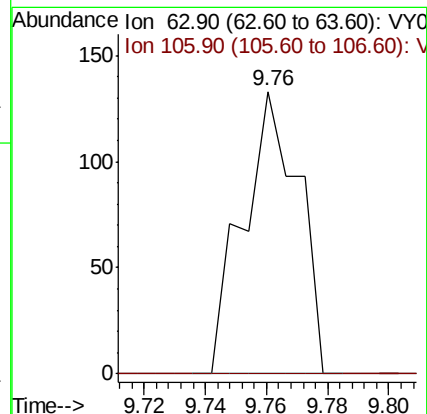
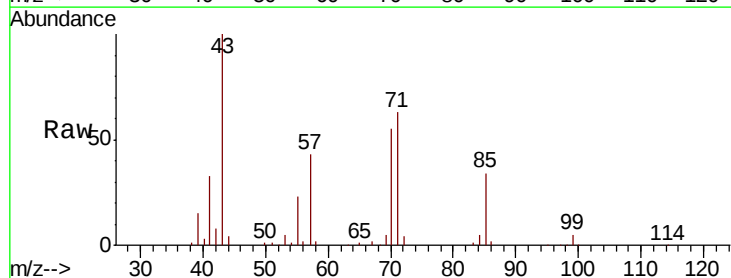
Acq: 21 Feb 2020 19:31

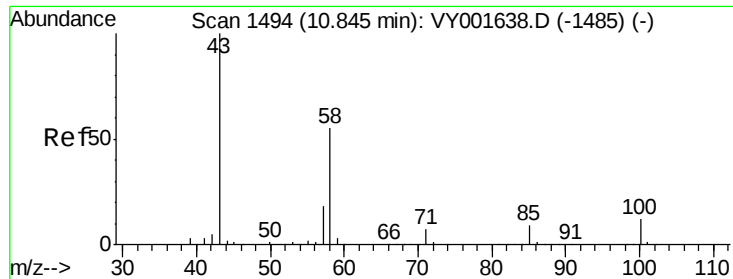
Tgt Ion: 63 Resp: 167

Ion Ratio Lower Upper

63 100

106 0.0 21.6 32.4#

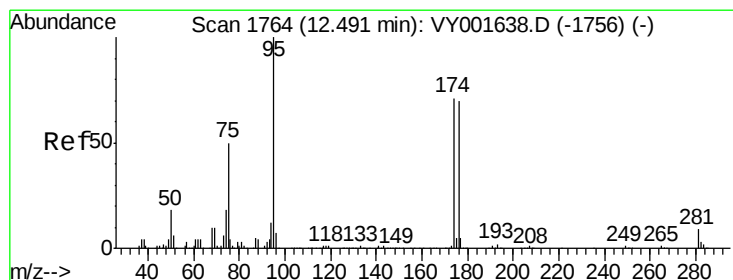
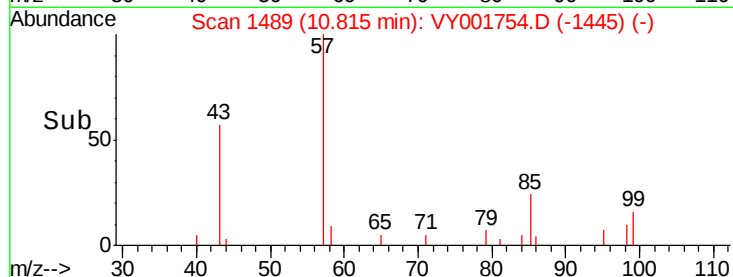
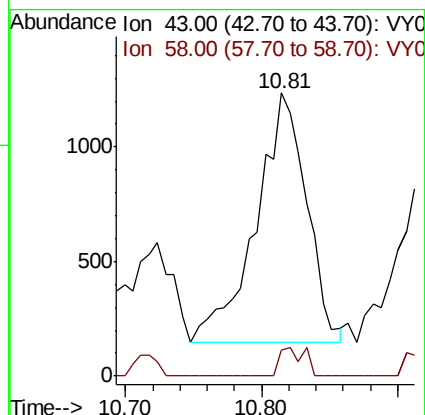
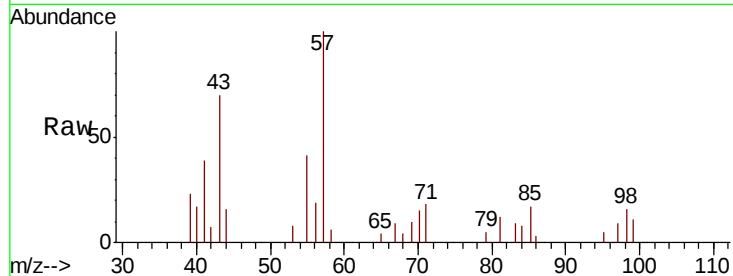




#59
2-Hexanone
Concen: 2.303 ug/l
RT: 10.81 min Scan# 1489
Delta R.T. -0.03 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

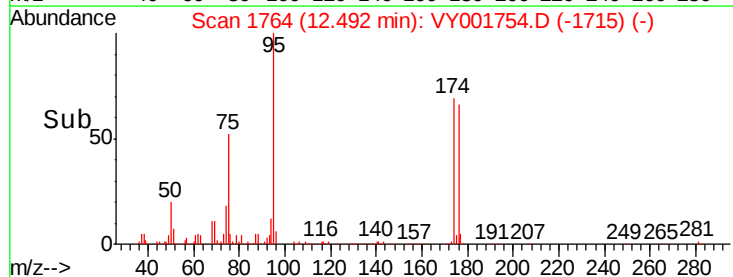
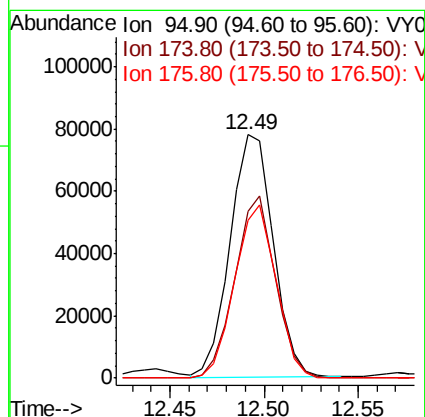
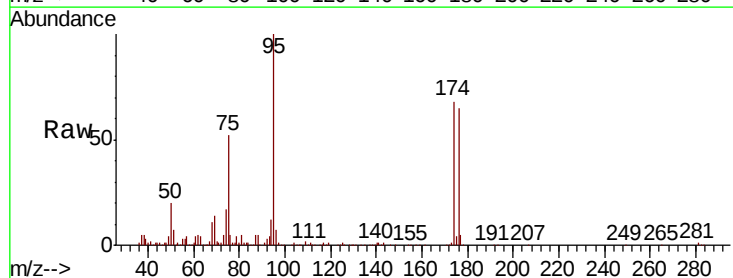
Instrument :
MSVOA_Y
ClientSampled :

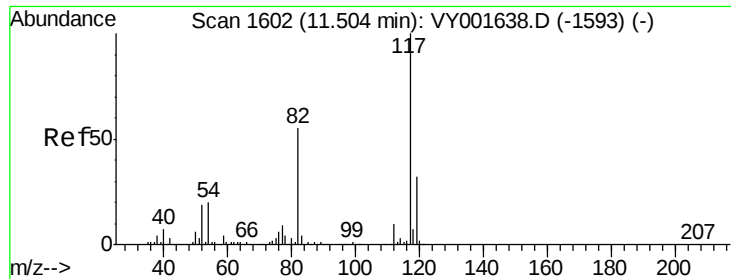
Tot Ion: 43 Resp: 2836
Ion Ratio Lower Upper
43 100
58 5.5 28.4 85.2#



#62
4-Bromofluorobenzene
Concen: 47.983 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. 0.00 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Tgt Ion: 95 Resp: 123506
Ion Ratio Lower Upper
95 100
174 71.1 0.0 138.4
176 68.7 0.0 131.8

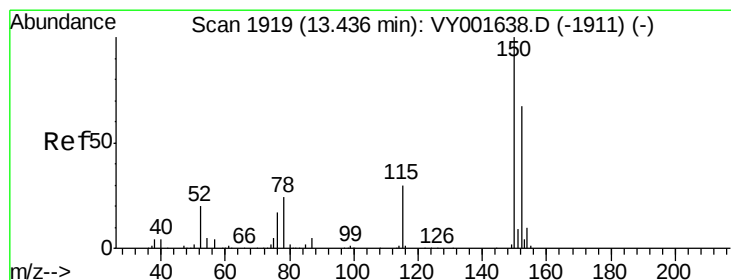
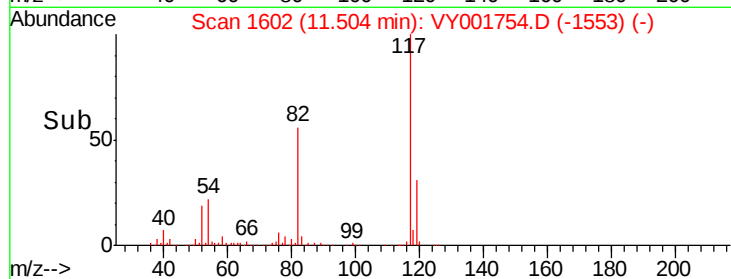
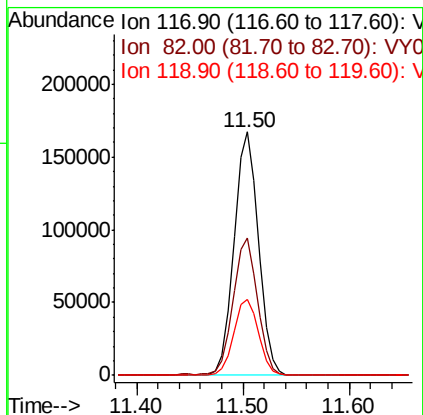
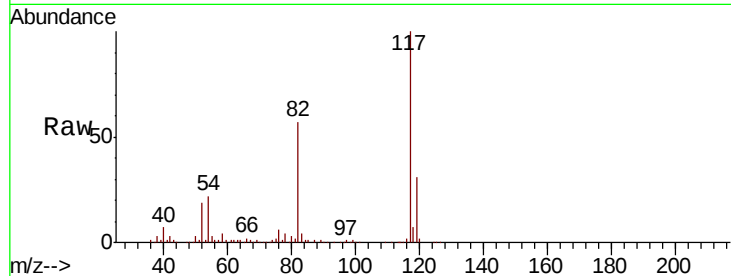




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

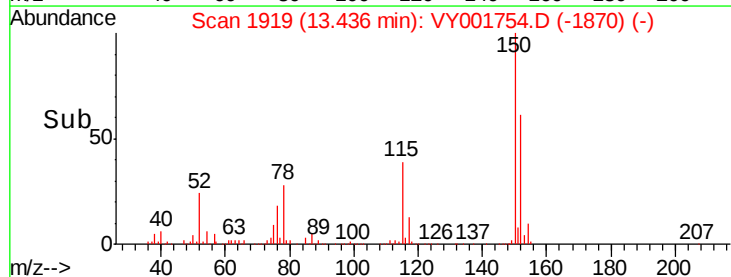
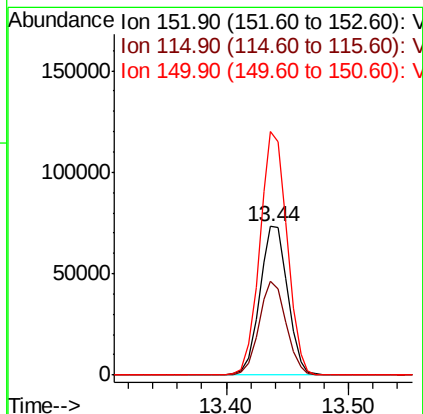
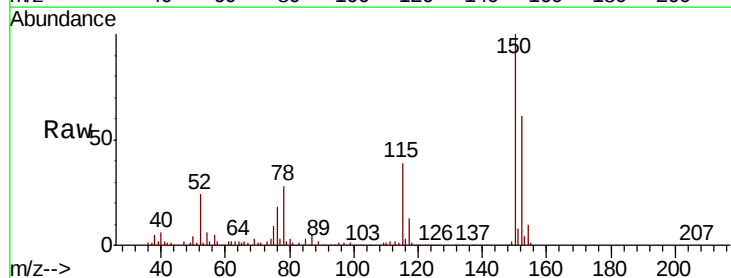
Instrument :
MSVOA_Y
ClientSampleId :

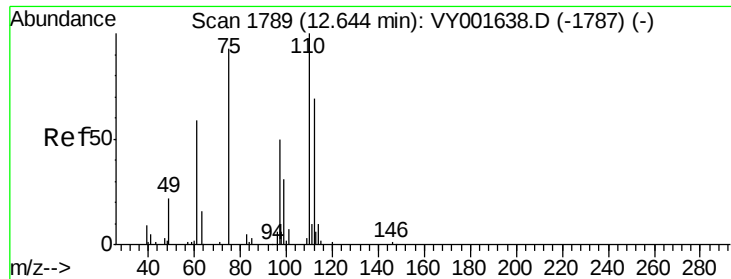
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	45.5	68.3
119	31.4	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.44 min Scan# 1919
Delta R.T. 0.00 min
Lab File: VY001754.D
Acq: 21 Feb 2020 19:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.5	31.4	94.2
150	159.5	0.0	407.2





#76

1,2,3-Trichloropropane

Concen: 46.469 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

Instrument :

MSVOA_Y

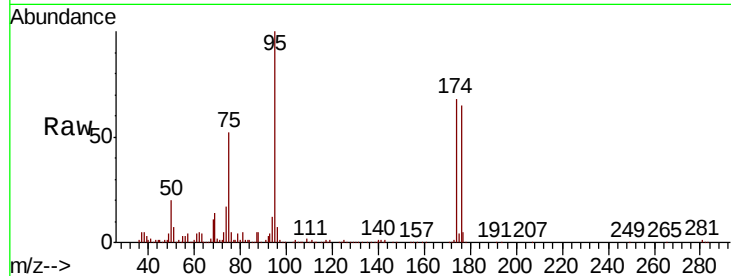
ClientSampleId :

Tot Ion: 75 Resp: 62311

Ion Ratio Lower Upper

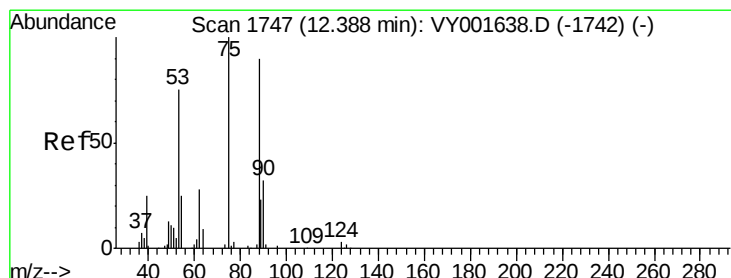
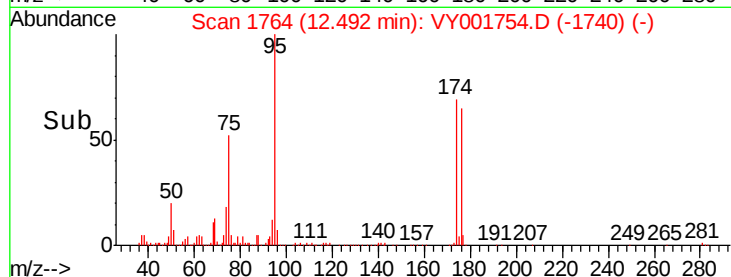
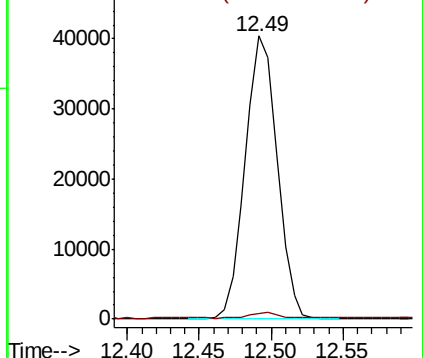
75 100

77 2.1 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: 88.160 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001754.D

Acq: 21 Feb 2020 19:31

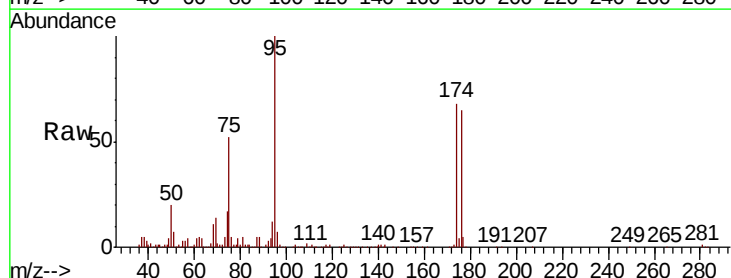
Tgt Ion: 75 Resp: 62311

Ion Ratio Lower Upper

75 100

53 1.1 64.5 96.7#

89 0.4 36.3 54.5#



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

