

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\
 Data File : VY002551.D
 Acq On : 04 May 2020 19:02
 Operator : SY/MD
 Sample : L2457-01
 Misc : 5.02G/5ML/MSVOA Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1360-1361

Quant Time: May 05 07:10:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	289652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	452351	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	278741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	52662	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	138808	56.99	ug/l	0.00
Spiked Amount			Recovery	=	113.98%	
35) Dibromofluoromethane	7.74	113	144982	56.04	ug/l	0.00
Spiked Amount			Recovery	=	112.08%	
50) Toluene-d8	10.19	98	466489	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	
62) 4-Bromofluorobenzene	12.48	95	79099	23.07	ug/l	0.00
Spiked Amount			Recovery	=	46.14%	

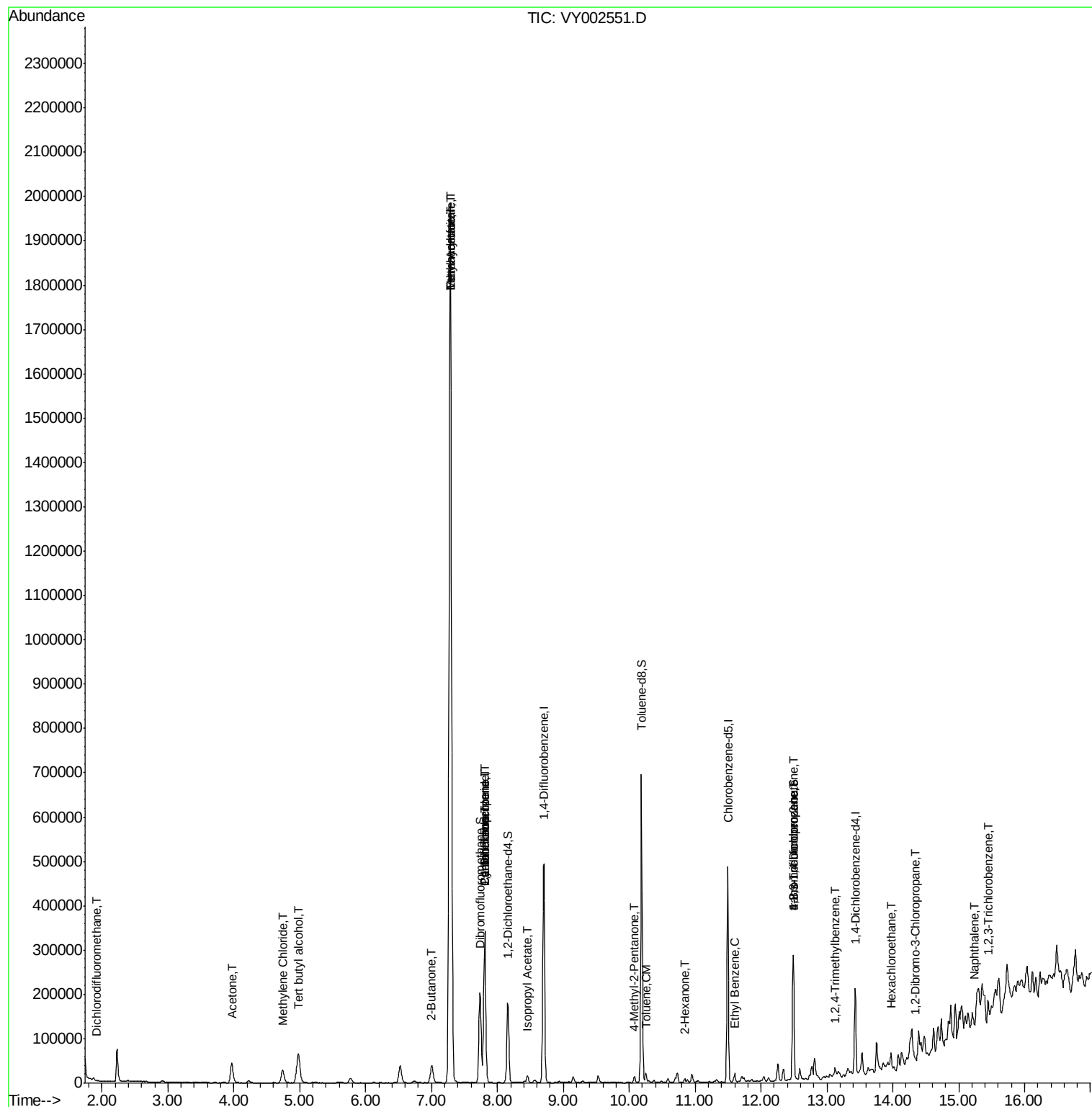
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	159	1.849	ug/l #	43
11) Tert butyl alcohol	4.98	59	137374	548.255	ug/l	98
16) Acetone	3.97	43	77536	154.263	ug/l	100
20) Methylene Chloride	4.74	84	23196	8.253	ug/l	96
25) 2-Butanone	7.01	43	29683	36.077	ug/l	99
29) Tetrahydrofuran	7.28	42	218474	401.346	ug/l #	31
31) Cyclohexane	7.80	56	4900	1.119	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	18967	5.002	ug/l #	49
37) Ethyl Acetate	7.28	43	1961019	1006.334	ug/l #	67
38) Carbon Tetrachloride	7.80	117	25903	6.257	ug/l #	15
41) Methacrylonitrile	7.28	41	978402	933.822	ug/l #	37
43) Isopropyl Acetate	8.46	43	14973	4.099	ug/l #	50
51) 4-Methyl-2-Pentanone	10.08	43	9228	4.901	ug/l	96
52) Toluene	10.25	92	8351	1.186	ug/l	98
59) 2-Hexanone	10.84	43	6623	5.110	ug/l	84
67) Ethyl Benzene	11.60	91	13205	1.419	ug/l	99
76) 1,2,3-Trichloropropane	12.48	75	37715	80.589	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	37715	161.597	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.13	105	8788	3.117	ug/l	99
90) Hexachloroethane	13.98	117	792	1.348	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.35	75	132	1.305	ug/l #	1
95) Naphthalene	15.24	128	5029	2.637	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.45	180	3305	3.724	ug/l #	12

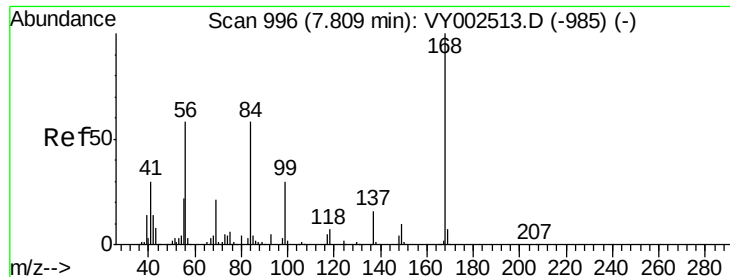
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 05 07:10:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
Quant Title : SW846 8260
QLast Update : Mon May 04 12:22:08 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.00 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

Instrument :

MSVOA_Y

ClientSampleId :

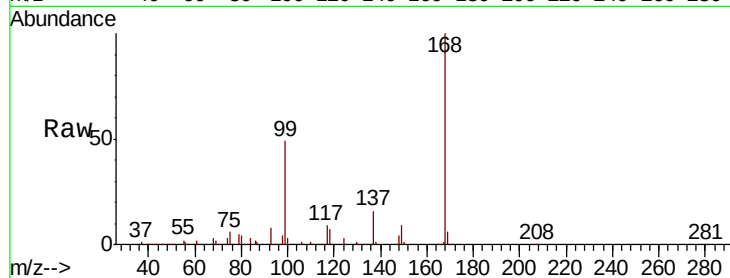
1360-1361

Tot Ion:168 Resp: 289652

Ion Ratio Lower Upper

168 100

99 49.0 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002551.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002551.D (-947) (-)

7.81

150000

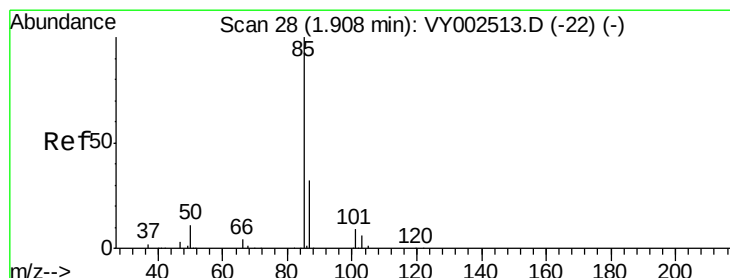
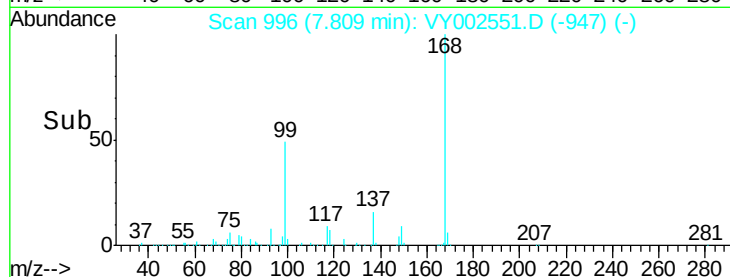
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 1.849 ug/l

RT: 1.91 min Scan# 29

Delta R.T. 0.01 min

Lab File: VY002551.D

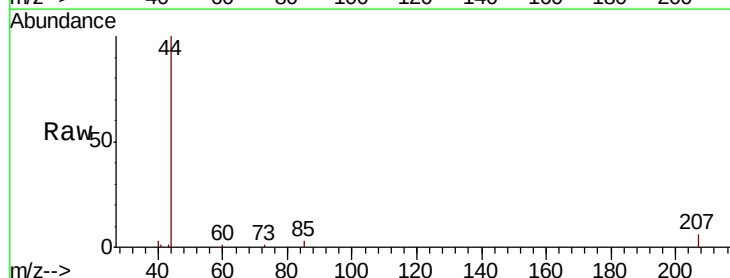
Acq: 04 May 2020 19:02

Tgt Ion: 85 Resp: 159

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002551.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY002551.D (-1) (-)

1.91

150

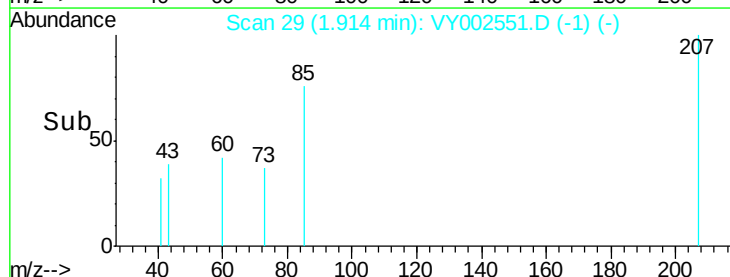
100

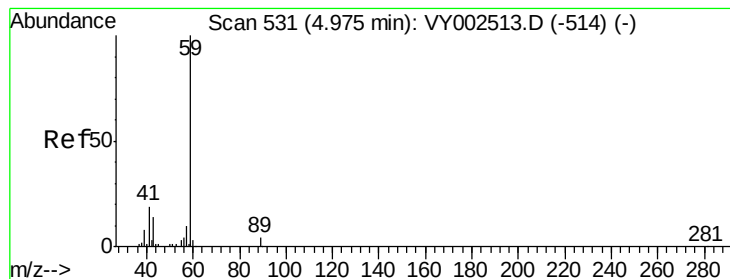
50

0

1.88 1.90 1.92 1.94

Time-->



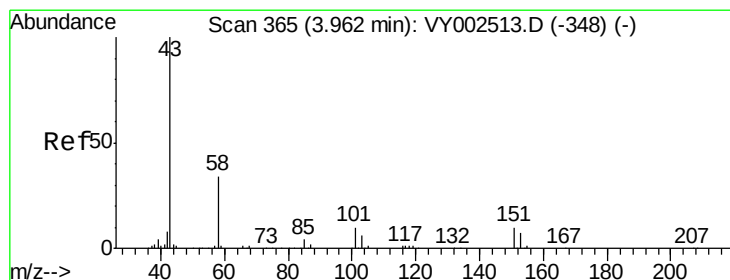
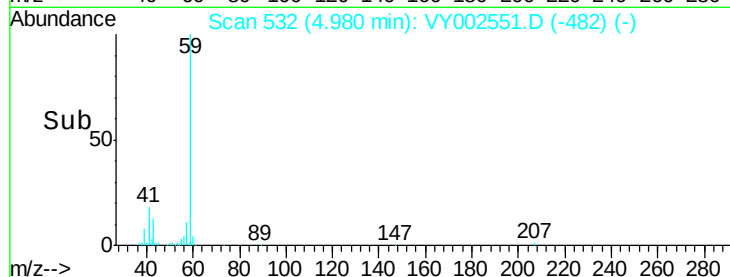
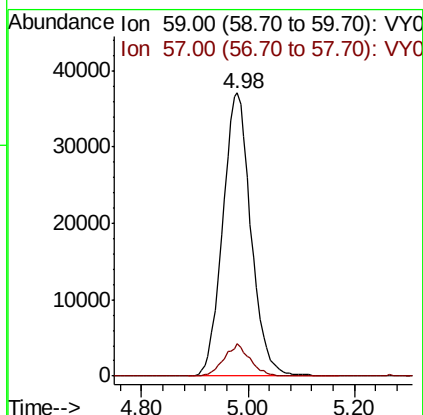
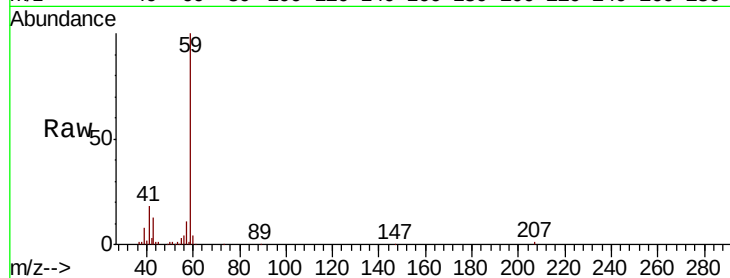


#11

Tert butyl alcohol
 Concen: 548.255 ug/l
 RT: 4.98 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

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 MSVOA_Y
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 1360-1361

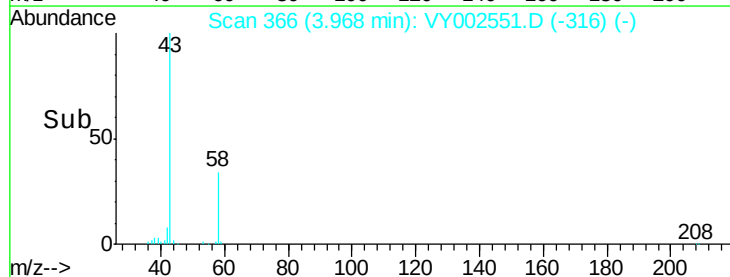
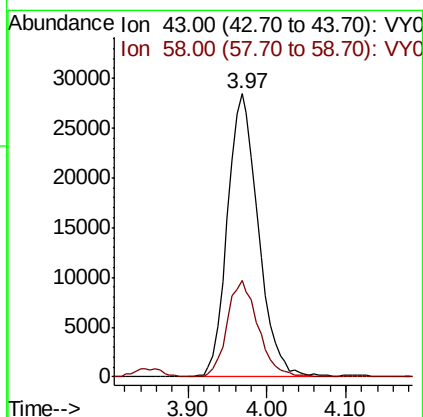
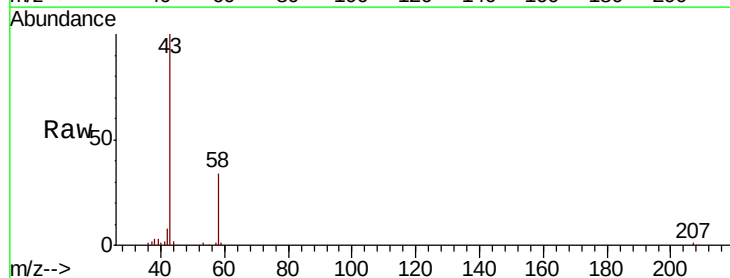
Tot Ion: 59 Resp: 137374
 Ion Ratio Lower Upper
 59 100
 57 10.5 7.8 11.6

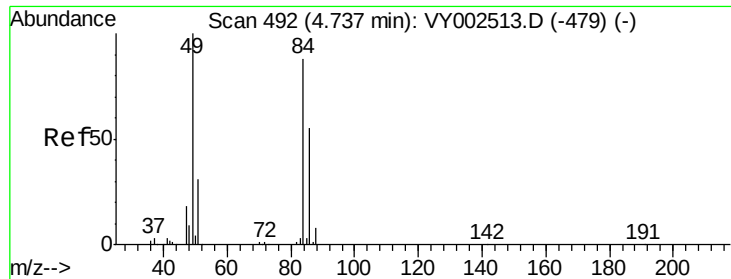


#16

Acetone
 Concen: 154.263 ug/l
 RT: 3.97 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

Tgt Ion: 43 Resp: 77536
 Ion Ratio Lower Upper
 43 100
 58 33.9 26.9 40.3

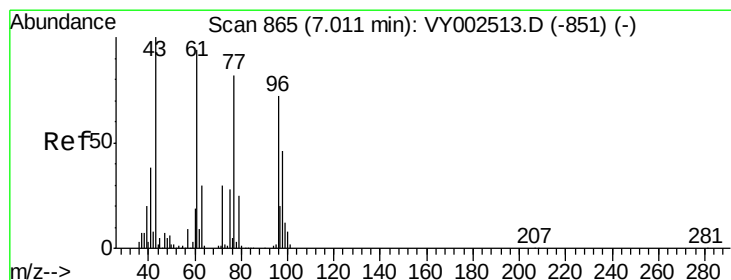
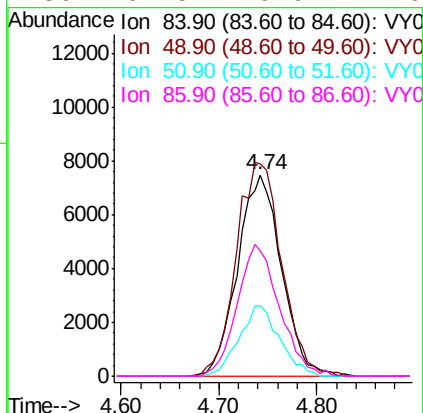
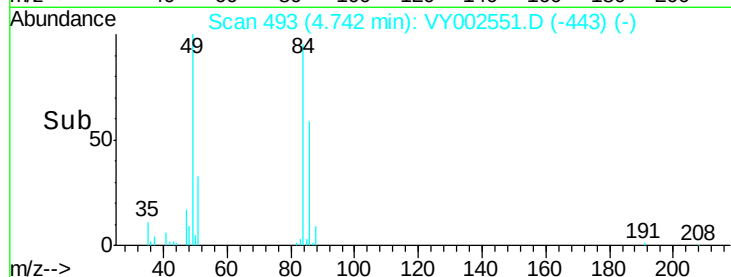
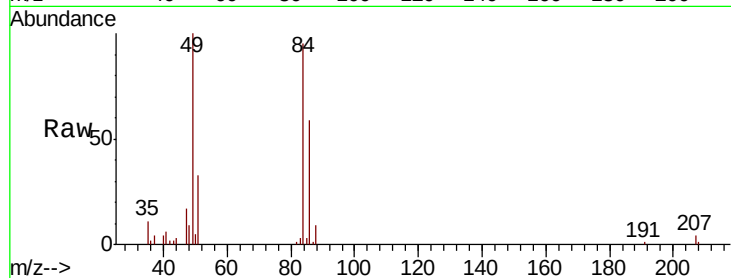




#20
Methylene Chloride
Concen: 8.253 ug/l
RT: 4.74 min Scan# 493
Delta R.T. 0.01 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

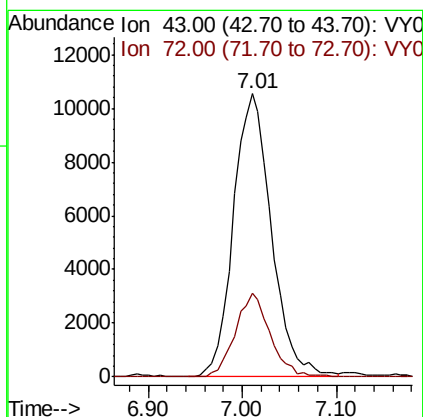
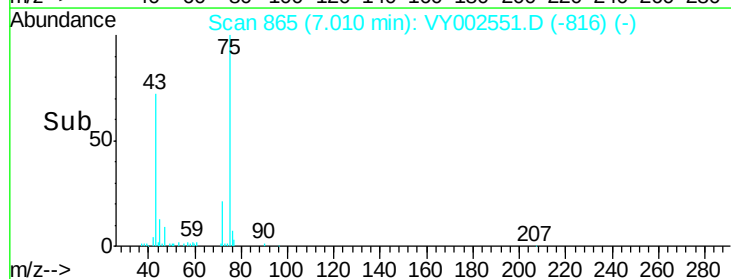
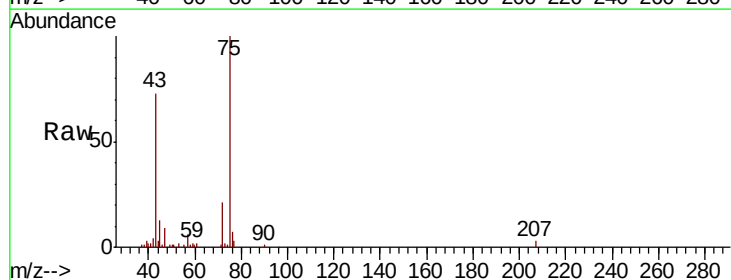
Instrument :
MSVOA_Y
ClientSampleId :
1360-1361

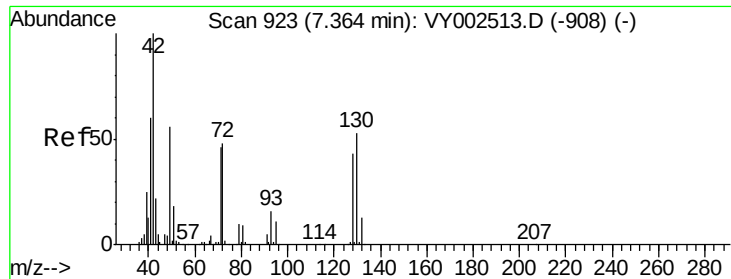
Tot Ion:	84	Resp:	23196
Ion	Ratio	Lower	Upper
84	100		
49	105.5	90.5	135.7
51	34.7	28.3	42.5
86	62.5	49.9	74.9



#25
2-Butanone
Concen: 36.077 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.00 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Tgt Ion:	43	Resp:	29683
Ion	Ratio	Lower	Upper
43	100		
72	29.4	24.1	36.1

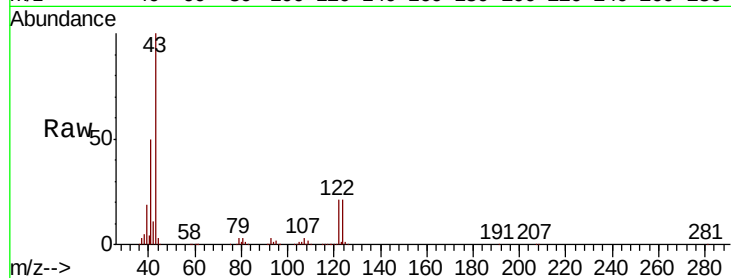




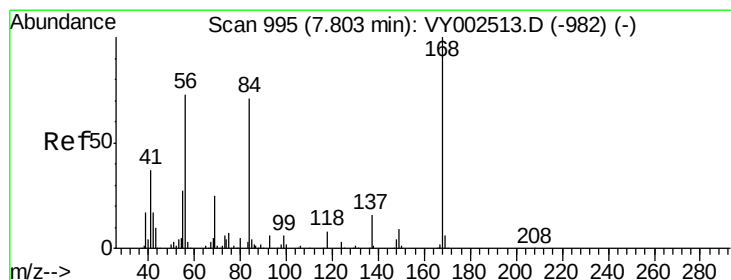
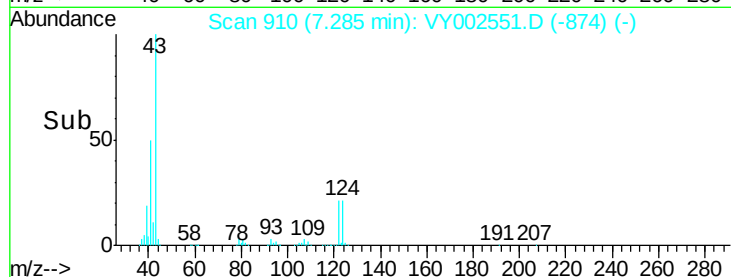
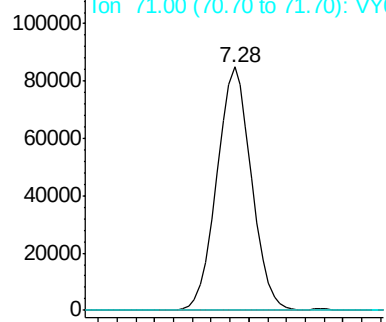
#29
Tetrahydrofuran
Concen: 401.346 ug/l
RT: 7.28 min Scan# 910
Delta R.T. -0.08 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Instrument :
MSVOA_Y
ClientSampled :
1360-1361

Tot Ion: 42 Resp: 218474
Ion Ratio Lower Upper
42 100
72 0.0 37.4 56.2#
71 0.0 35.0 52.4#

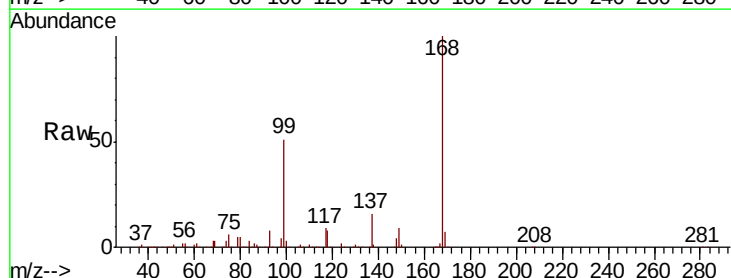


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

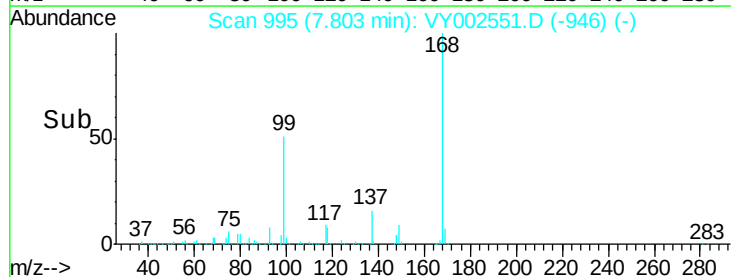
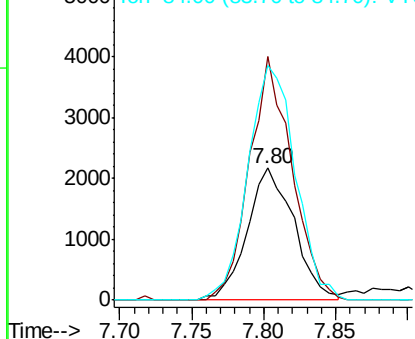


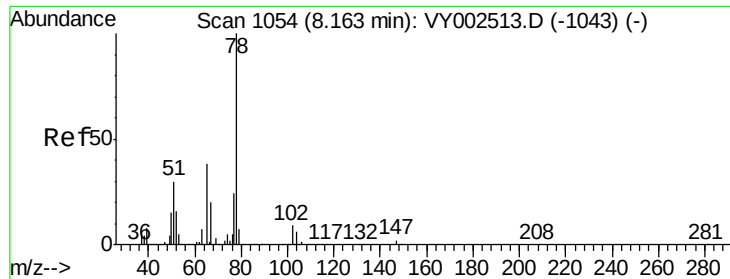
#31
Cyclohexane
Concen: 1.119 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.00 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Tgt Ion: 56 Resp: 4900
Ion Ratio Lower Upper
56 100
69 184.4 27.6 41.4#
84 177.9 77.7 116.5#



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

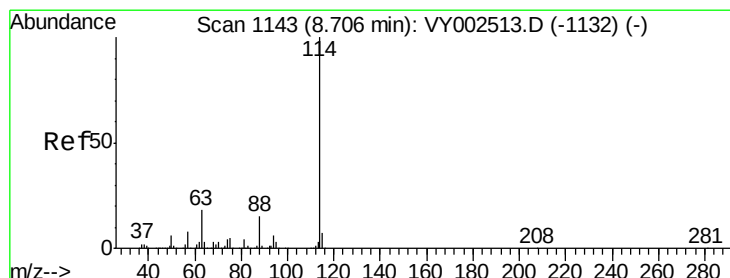
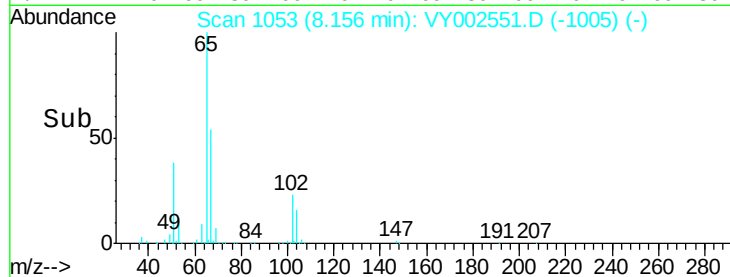
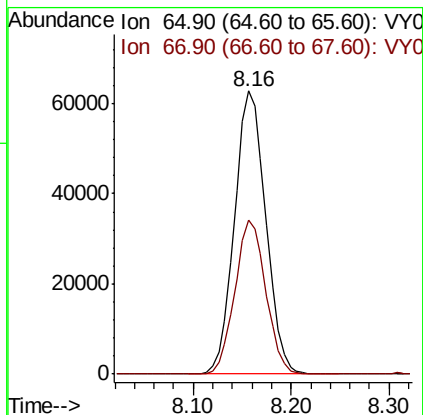
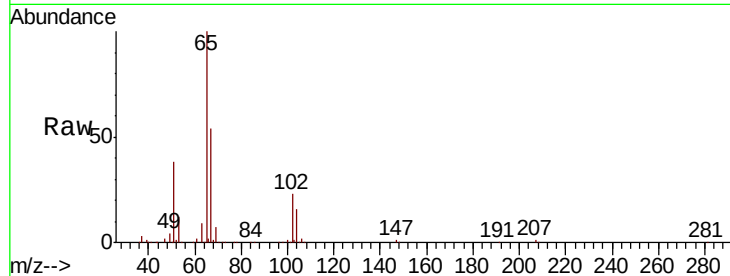




#33
 1,2-Dichloroethane-d4
 Concen: 56.995 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

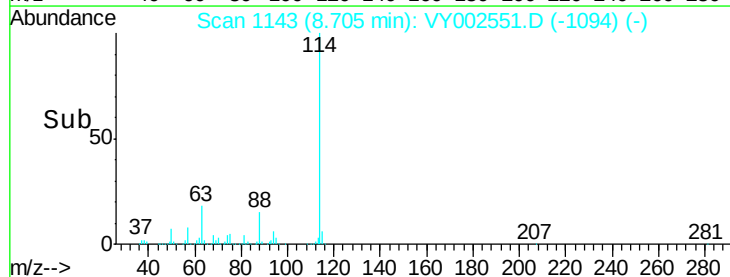
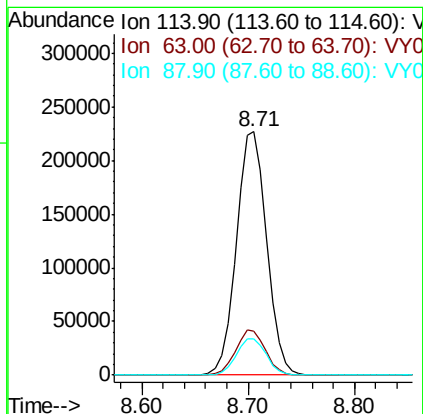
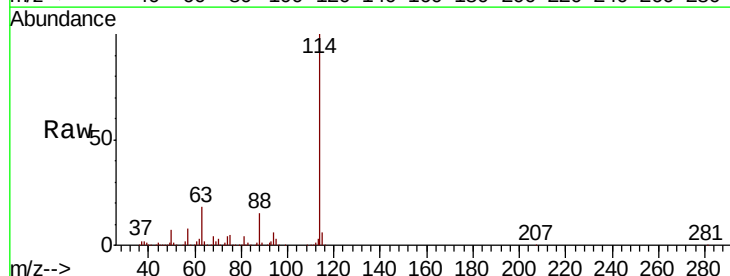
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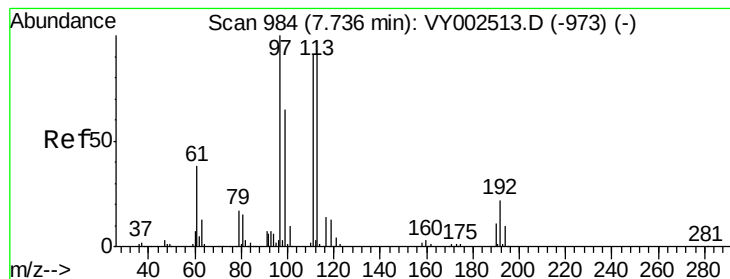
Tot Ion: 65 Resp: 138808
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

Tgt Ion: 114 Resp: 452351
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 36.4
 88 15.0 0.0 29.6





#35

Dibromofluoromethane

Concen: 56.042 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.00 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

Instrument :

MSVOA_Y

ClientSampleId :

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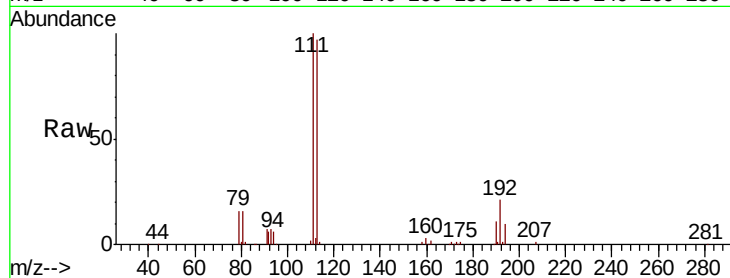
Tot Ion:113 Resp: 144982

Ion Ratio Lower Upper

113 100

111 101.1 81.8 122.6

192 22.0 18.2 27.4



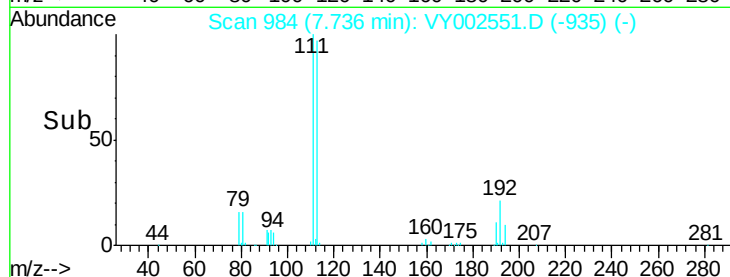
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.74

Time-->



Abundance

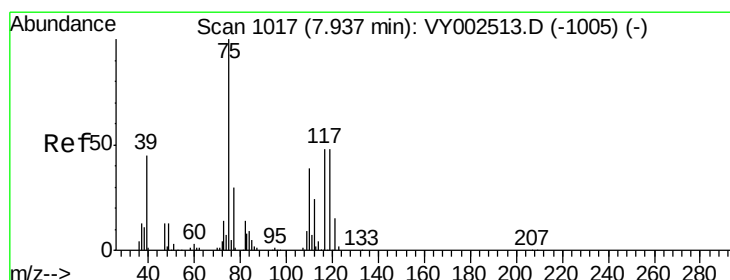
Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

7.74

Time-->



#36

1,1-Dichloropropene

Concen: 5.002 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.13 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

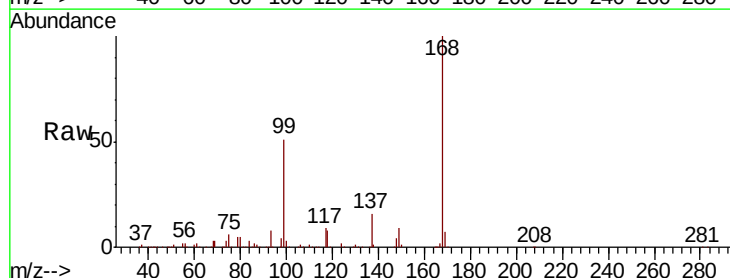
Tgt Ion: 75 Resp: 18967

Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.3#

77 0.1 24.6 37.0#



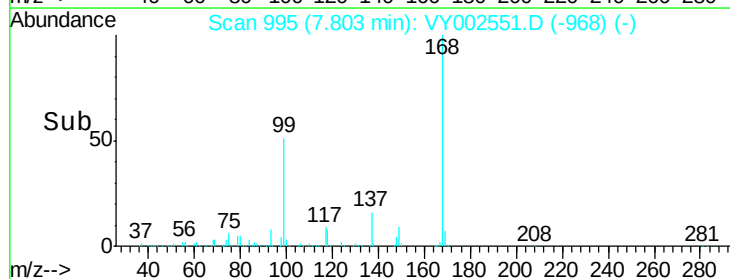
Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

7.80

Time-->



Abundance

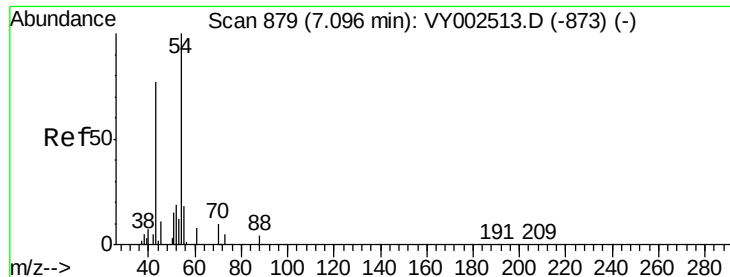
Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

7.80

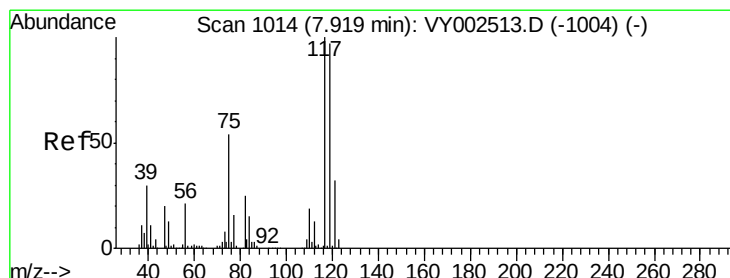
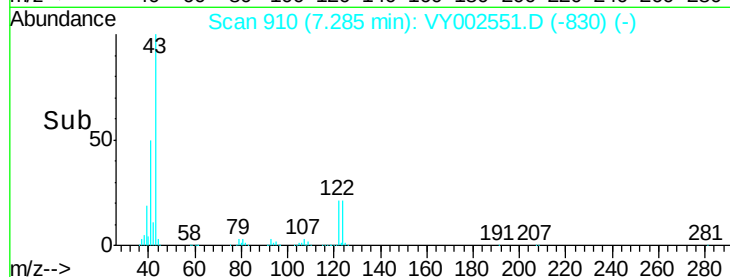
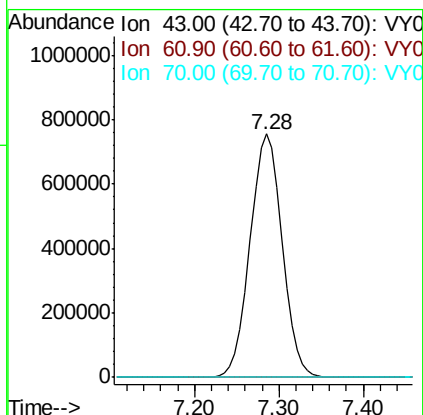
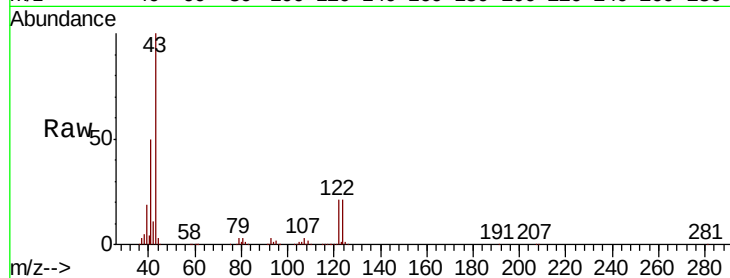
Time-->



#37
Ethyl Acetate
Concen: 1006.334 ug/l
RT: 7.28 min Scan# 910
Delta R.T. 0.19 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

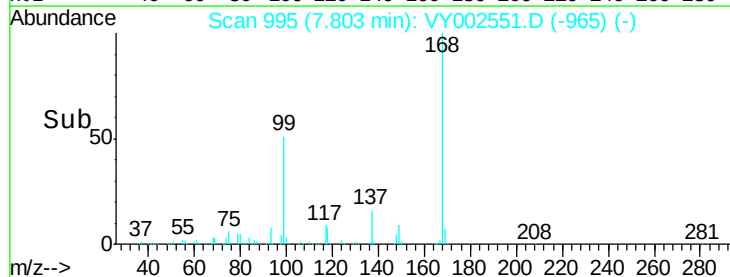
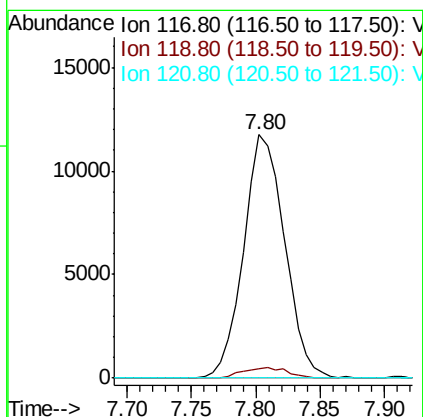
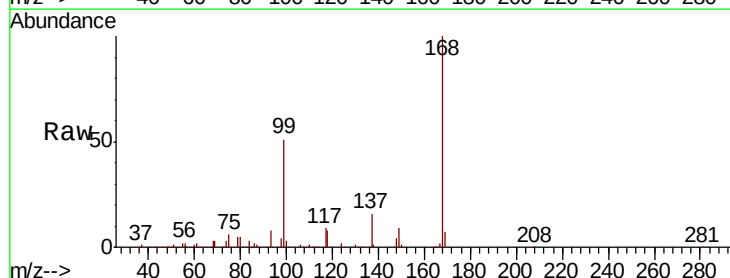
Instrument :
MSVOA_Y
ClientSampleId :
1360-1361

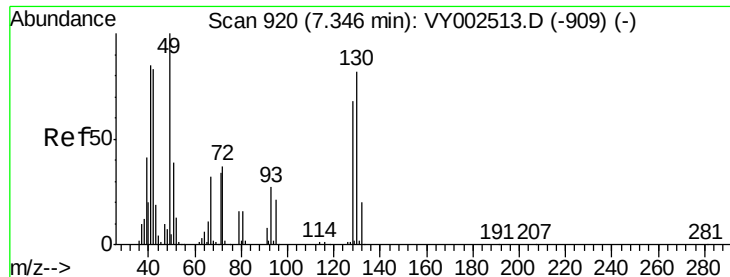
Tot Ion: 43 Resp: 1961019
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.0 13.6#



#38
Carbon Tetrachloride
Concen: 6.257 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.12 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Tgt Ion: 117 Resp: 25903
Ion Ratio Lower Upper
117 100
119 4.1 77.1 115.7#
121 0.0 25.2 37.8#

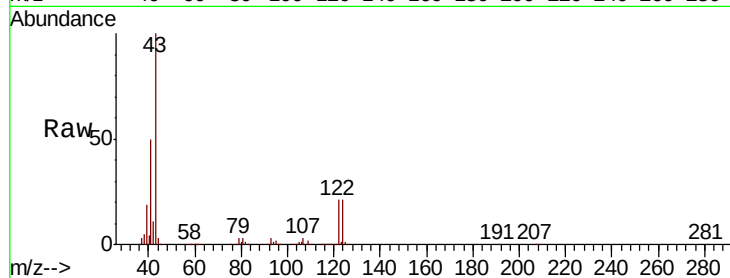




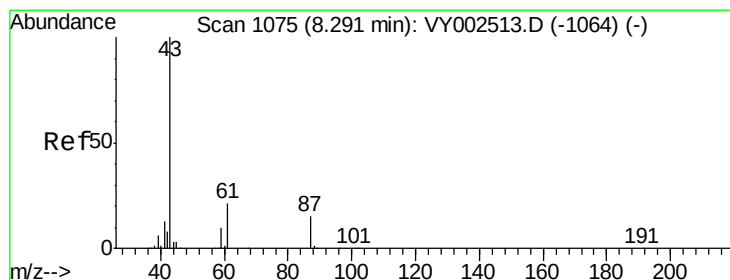
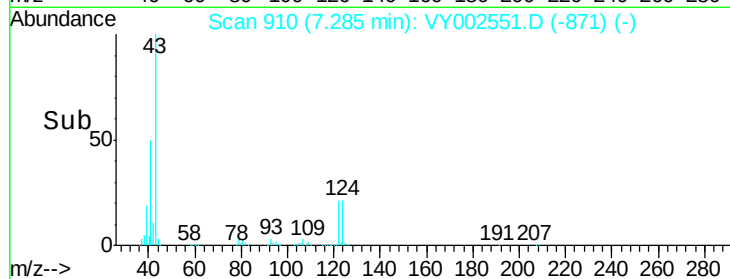
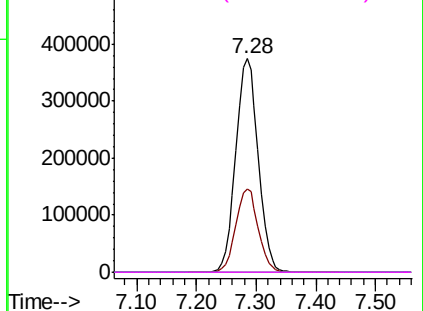
#41
Methacrylonitrile
Concen: 933.822 ug/l
RT: 7.28 min Scan# 910
Delta R.T. -0.06 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Instrument :
MSVOA_Y
ClientSampled :
1360-1361

Tot Ion:	41	Resp:	978402
Ion	Ratio	Lower	Upper
41	100		
39	39.0	83.1	124.7#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

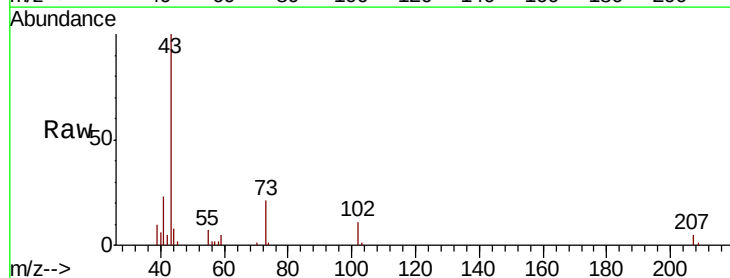


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0

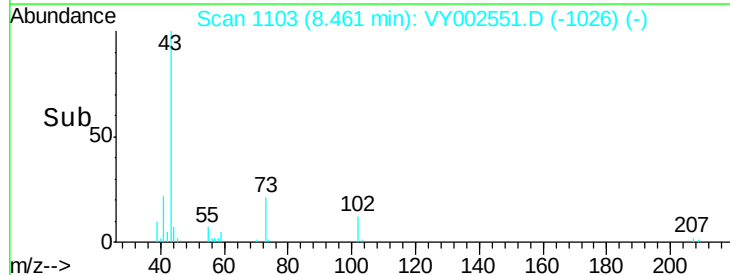
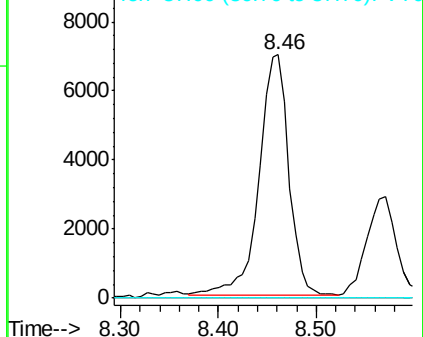


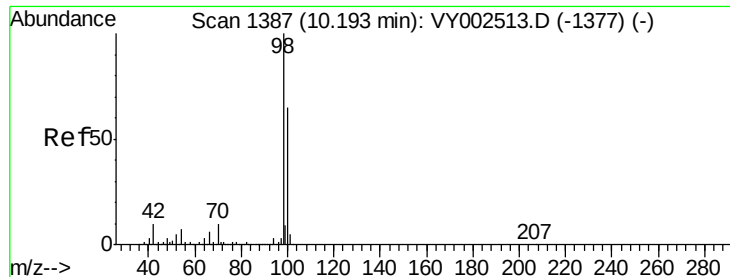
#43
Isopropyl Acetate
Concen: 4.099 ug/l
RT: 8.46 min Scan# 1103
Delta R.T. 0.17 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Tgt Ion:	43	Resp:	14973
Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.8	37.2#
87	0.0	12.2	18.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 87.00 (86.70 to 87.70): VY0





#50

Toluene-d8

Concen: 46.175 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

Instrument :

MSVOA_Y

ClientSampleId :

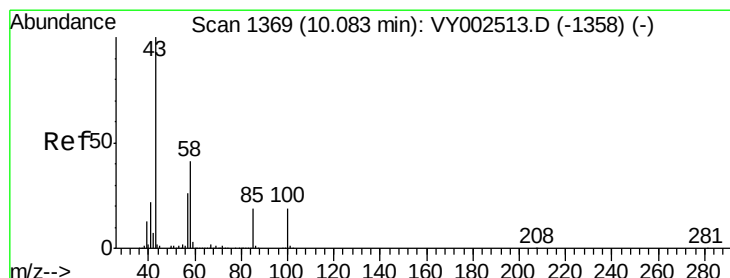
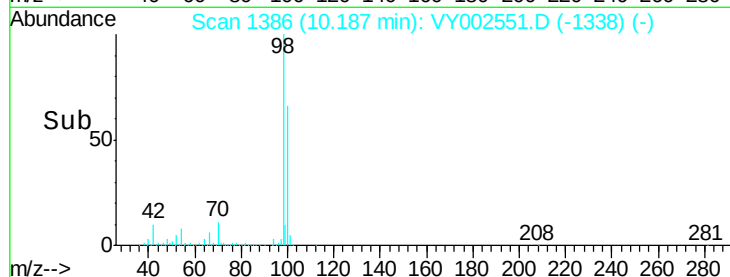
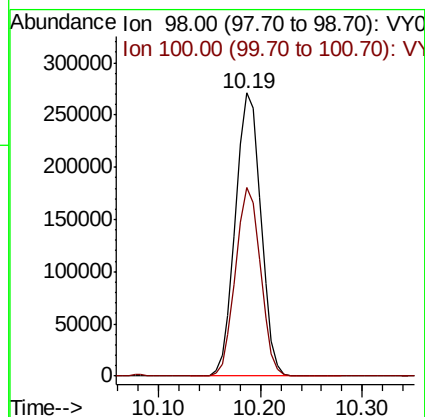
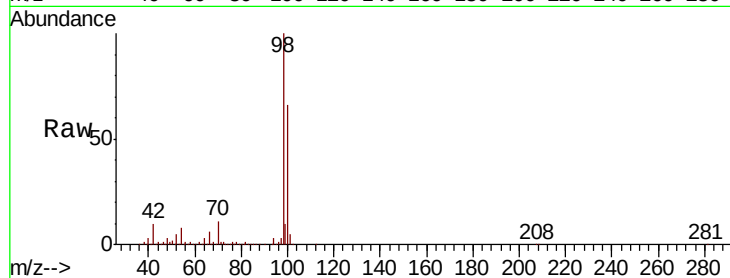
1360-1361

Tot Ion: 98 Resp: 466489

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 4.901 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY002551.D

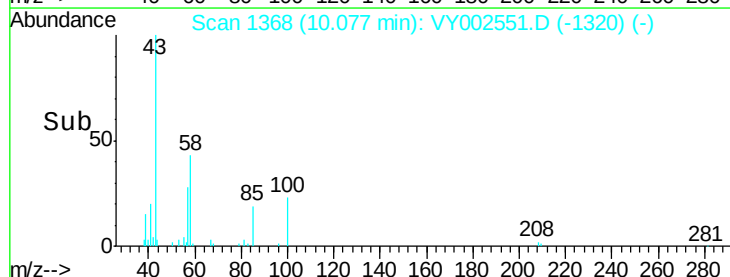
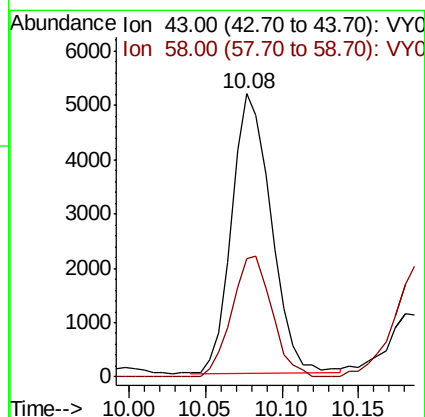
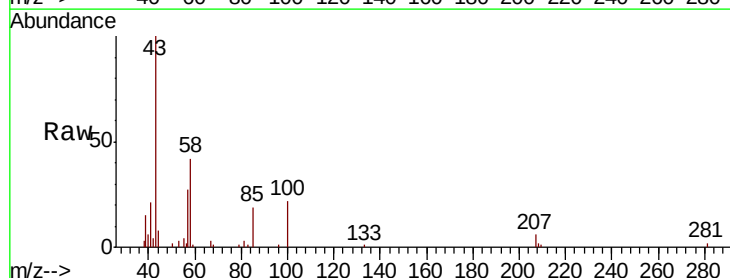
Acq: 04 May 2020 19:02

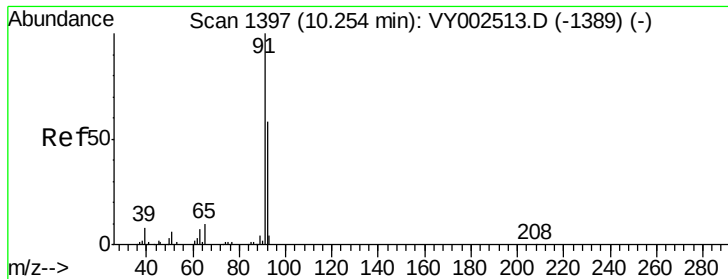
Tgt Ion: 43 Resp: 9228

Ion Ratio Lower Upper

43 100

58 43.8 33.2 49.8





#52

Toluene

Concen: 1.186 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

Instrument :

MSVOA_Y

ClientSampleId :

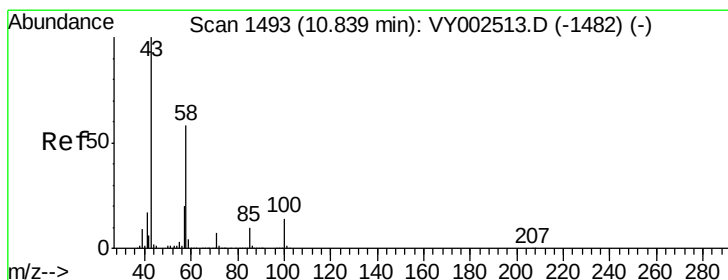
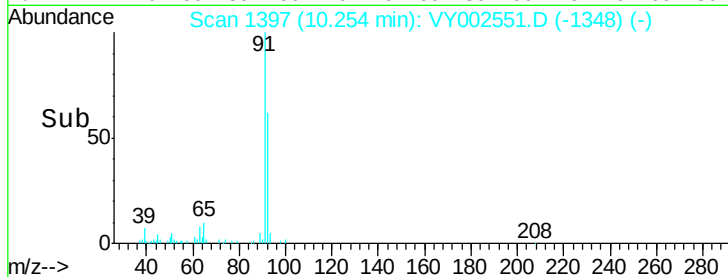
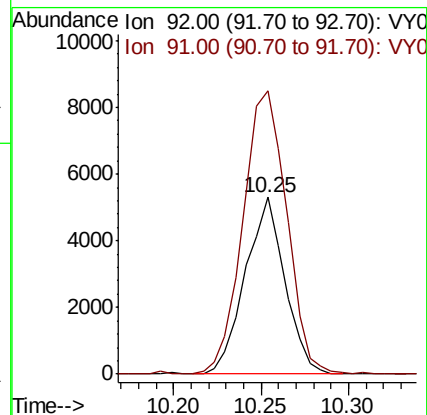
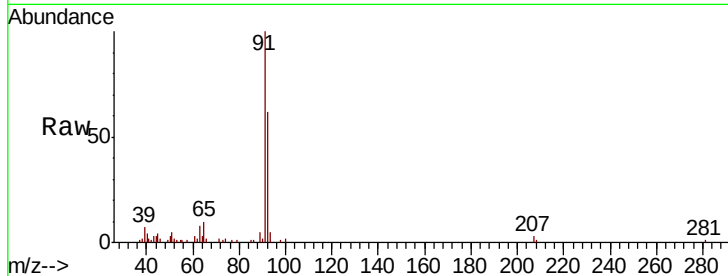
1360-1361

Tot Ion: 92 Resp: 8351

Ion Ratio Lower Upper

92 100

91 177.6 139.3 208.9



#59

2-Hexanone

Concen: 5.110 ug/l

RT: 10.84 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VY002551.D

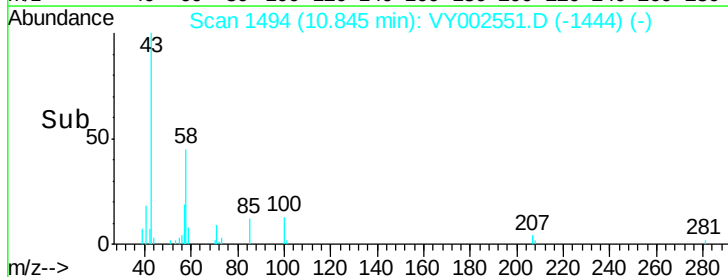
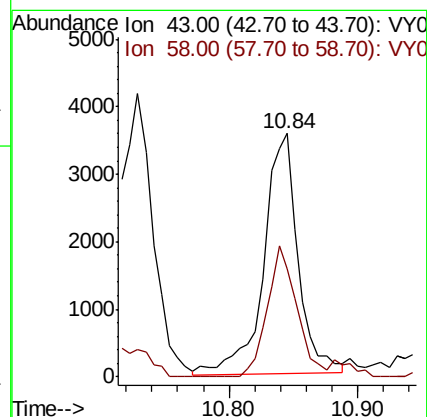
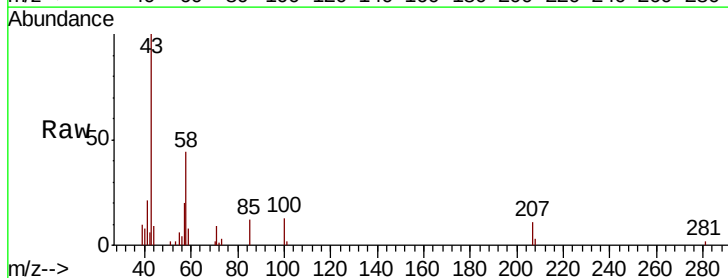
Acq: 04 May 2020 19:02

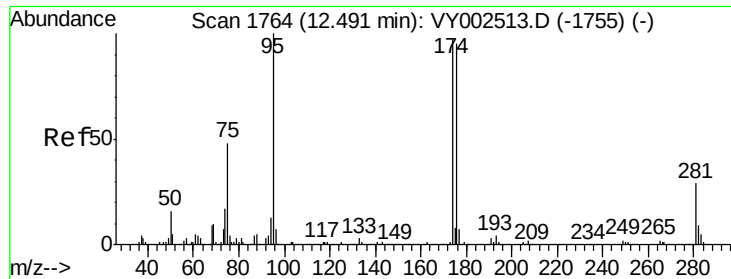
Tgt Ion: 43 Resp: 6623

Ion Ratio Lower Upper

43 100

58 46.6 29.1 87.3

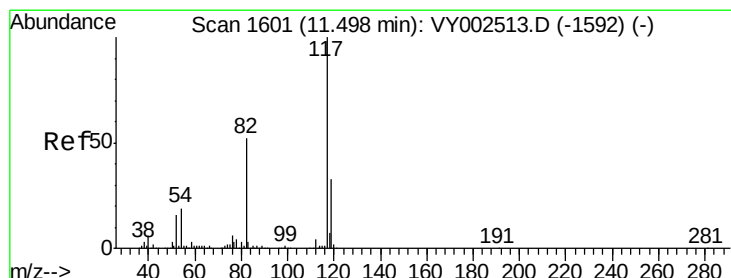
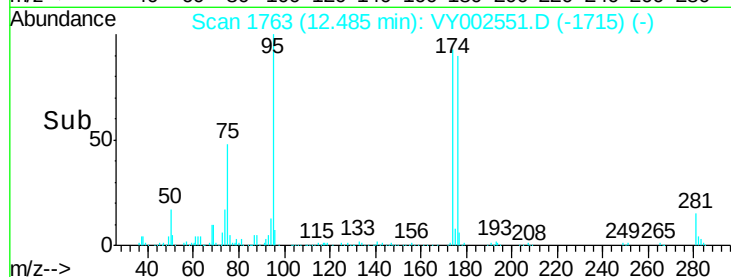
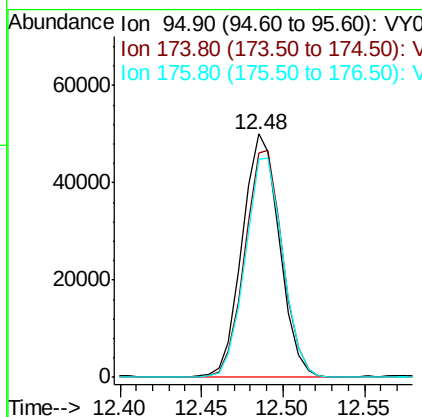
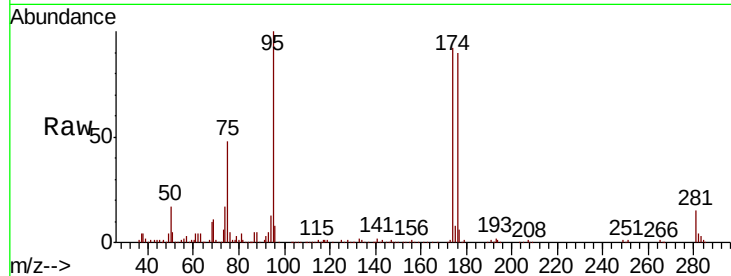




#62
4-Bromofluorobenzene
Concen: 23.074 ug/l
RT: 12.48 min Scan# 1763
Delta R.T. -0.01 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

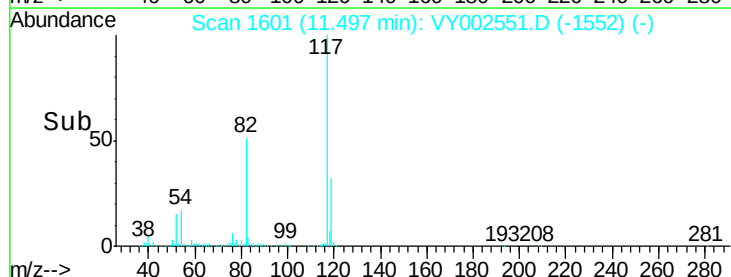
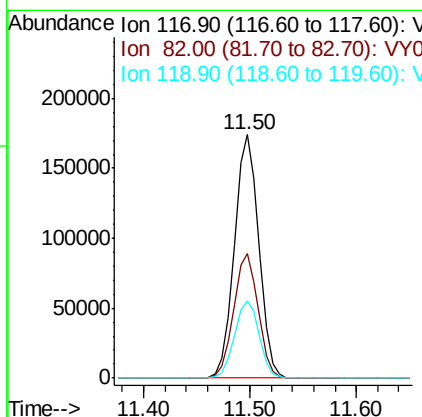
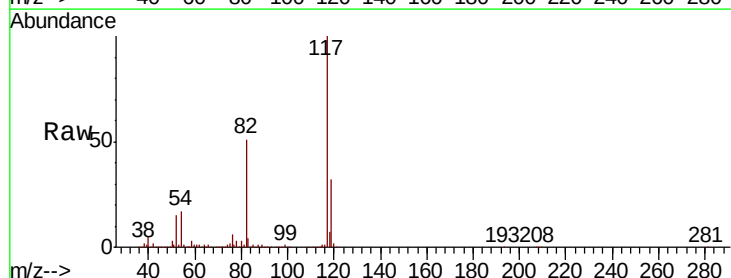
Instrument :
MSVOA_Y
ClientSampleId :
1360-1361

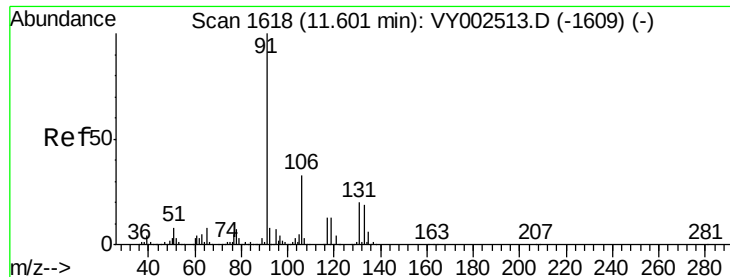
Tot Ion	95	Resp	79099
Ion Ratio	Lower	Upper	
95	100		
174	94.9	0.0	188.8
176	91.6	0.0	183.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY002551.D
Acq: 04 May 2020 19:02

Tgt Ion	117	Resp	278741
Ion Ratio	Lower	Upper	
117	100		
82	51.3	41.3	61.9
119	31.6	26.0	39.0





#67

Ethyl Benzene

Concen: 1.419 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

Instrument :

MSVOA_Y

ClientSampleId :

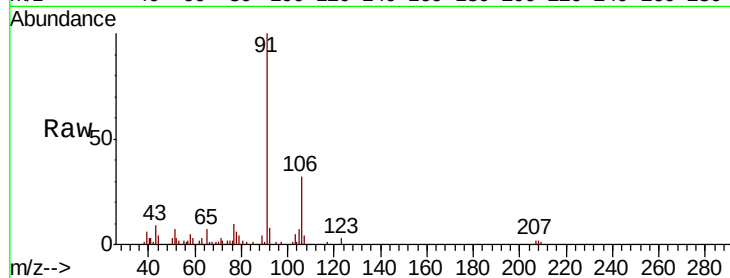
1360-1361

Tot Ion: 91 Resp: 13205

Ion Ratio Lower Upper

91 100

106 31.9 26.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VY002513.D (-1609) (-)

Ion 106.00 (105.70 to 106.70): VY002513.D (-1609) (-)

11.60

8000

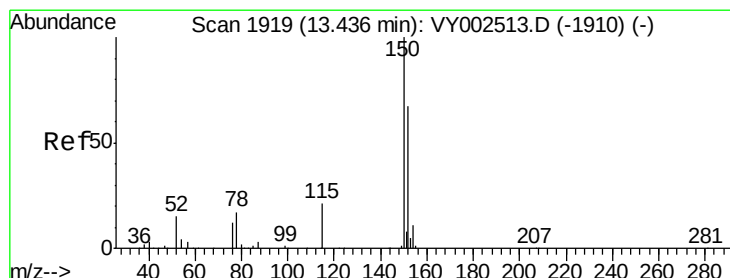
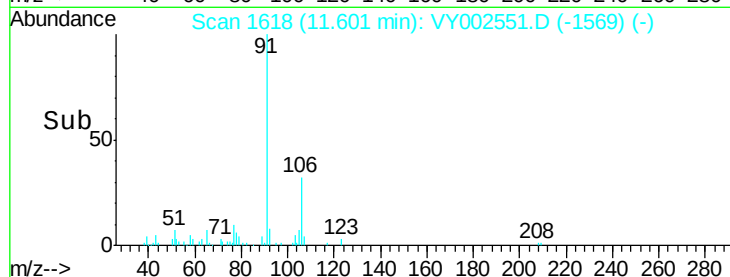
6000

4000

2000

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

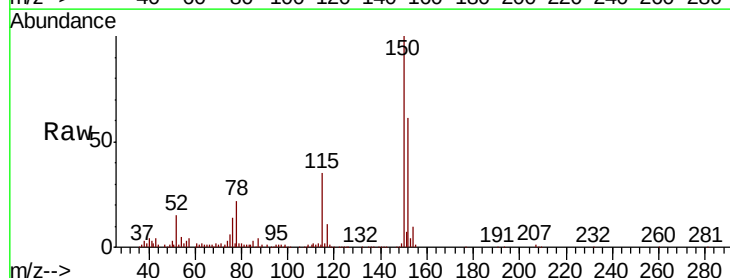
Tgt Ion: 152 Resp: 52662

Ion Ratio Lower Upper

152 100

115 55.2 27.5 82.4

150 155.0 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): VY002513.D (-1910) (-)

Ion 114.90 (114.60 to 115.60): VY002513.D (-1910) (-)

Ion 149.90 (149.60 to 150.60): VY002513.D (-1910) (-)

13.43

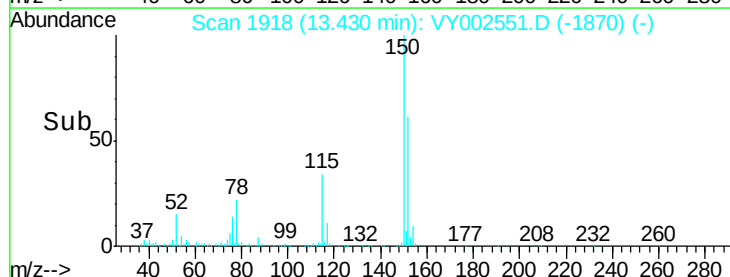
60000

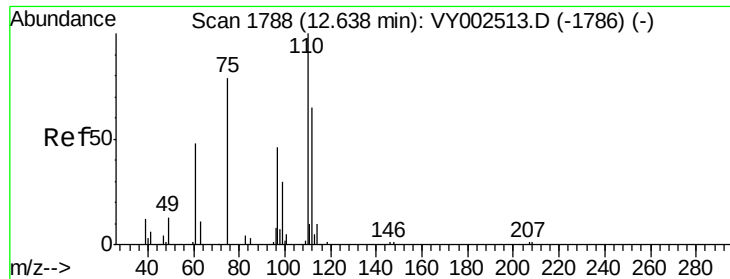
40000

20000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 80.589 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

Instrument :

MSVOA_Y

ClientSampleId :

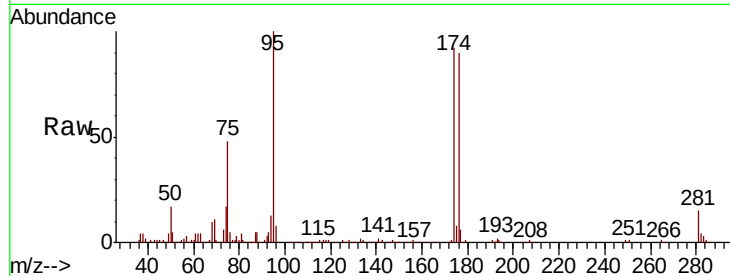
1360-1361

Tot Ion: 75 Resp: 37715

Ion Ratio Lower Upper

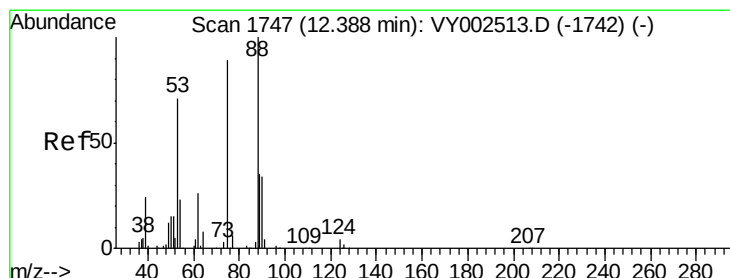
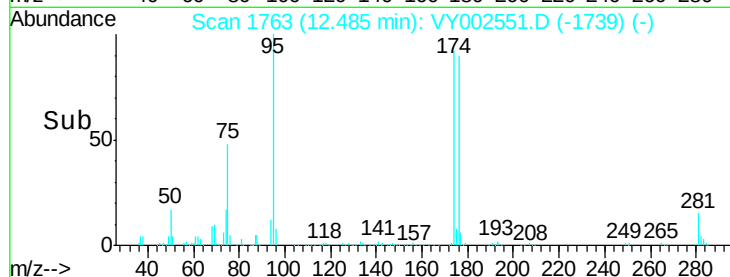
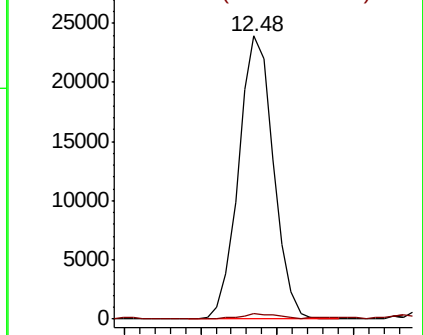
75 100

77 2.2 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: 161.597 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002551.D

Acq: 04 May 2020 19:02

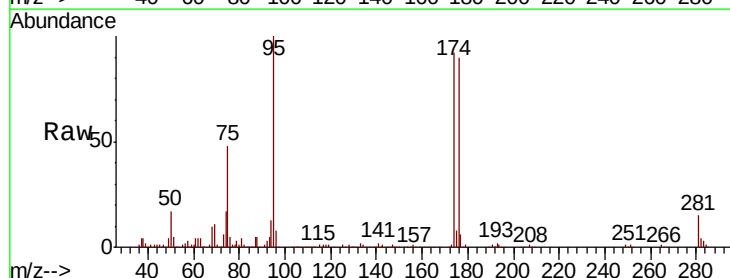
Tgt Ion: 75 Resp: 37715

Ion Ratio Lower Upper

75 100

53 0.3 67.4 101.0#

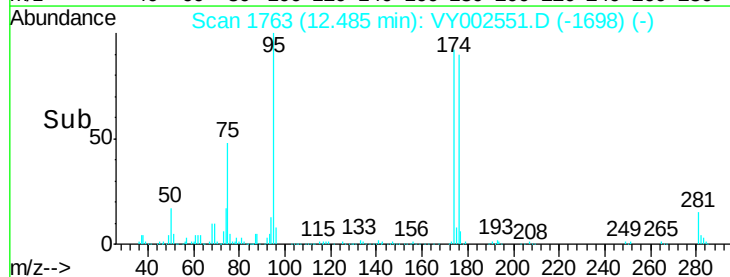
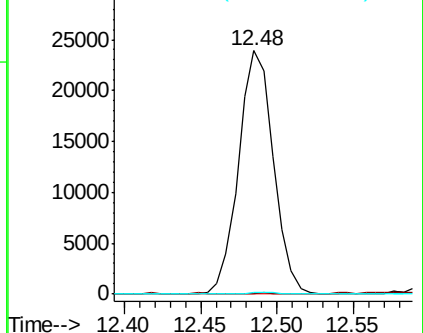
89 0.8 37.4 56.0#

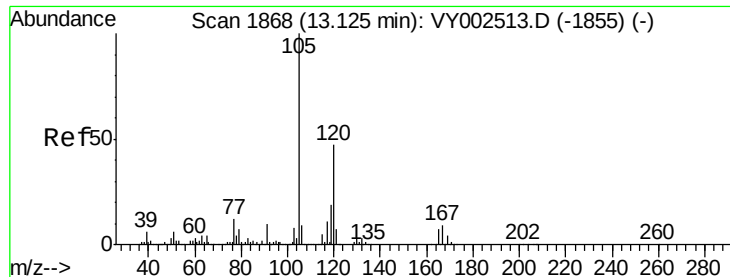


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

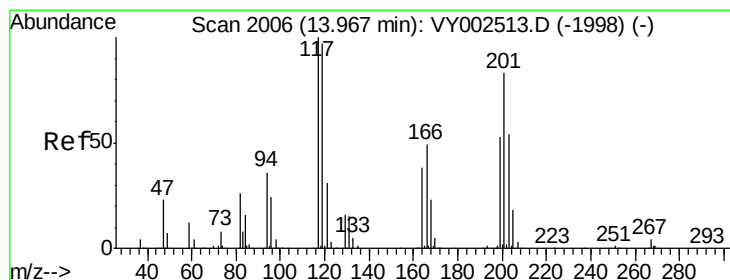
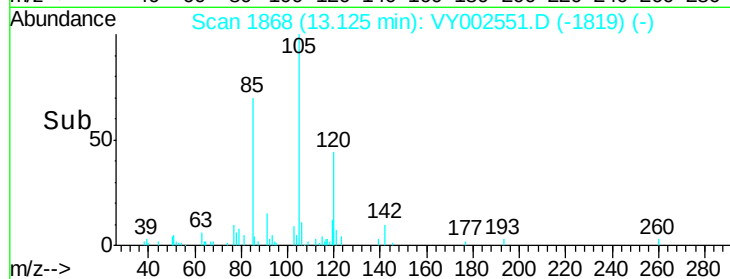
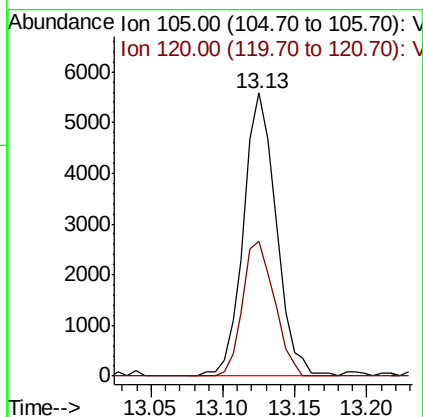
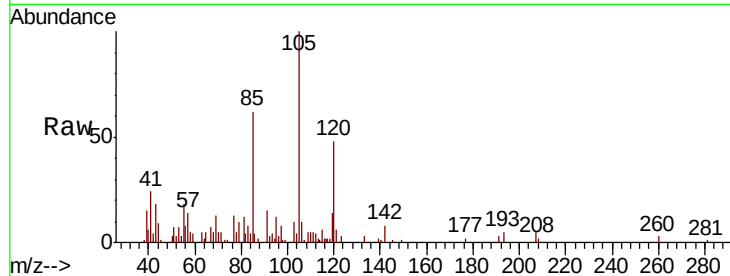




#84
 1,2,4-Trimethylbenzene
 Concen: 3.117 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

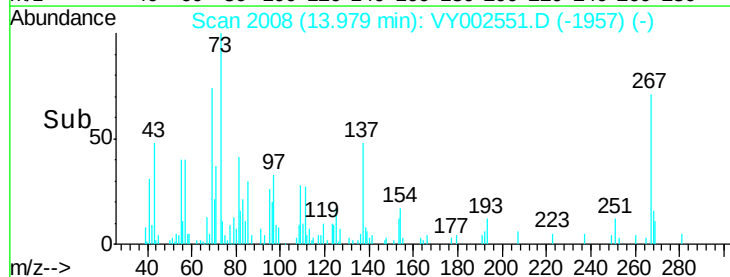
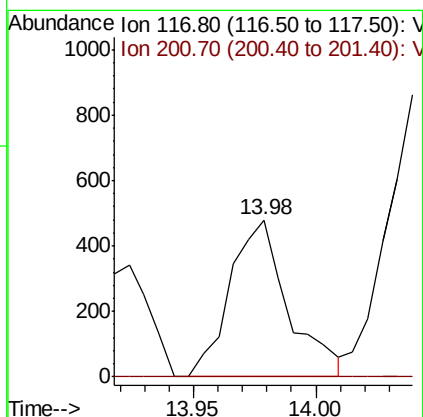
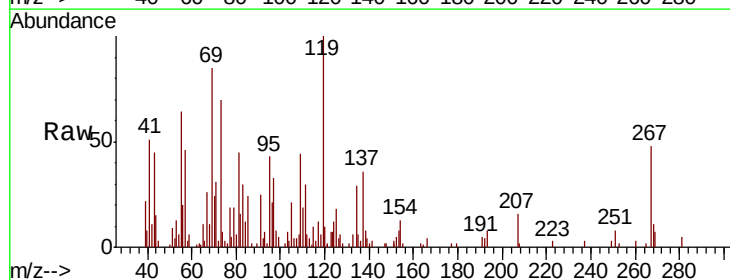
Instrument :
 MSVOA_Y
 ClientSampleId :
 1360-1361

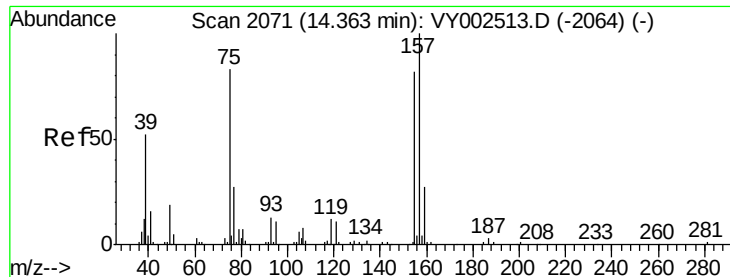
Tot Ion:105 Resp: 8788
 Ion Ratio Lower Upper
 105 100
 120 46.1 23.4 70.3



#90
 Hexachloroethane
 Concen: 1.348 ug/l
 RT: 13.98 min Scan# 2008
 Delta R.T. 0.01 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

Tgt Ion:117 Resp: 792
 Ion Ratio Lower Upper
 117 100
 201 0.0 44.4 133.2#

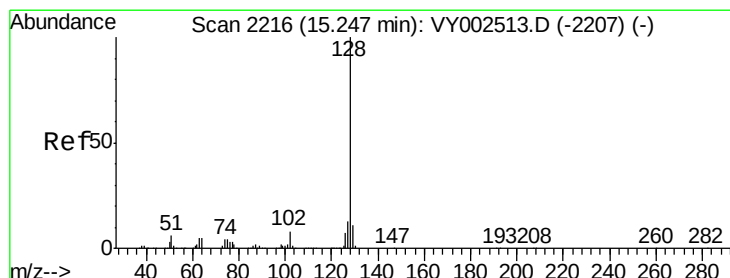
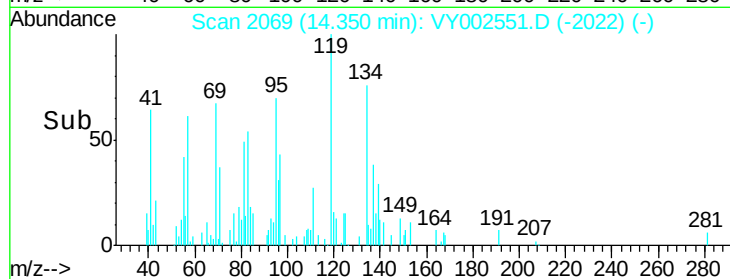
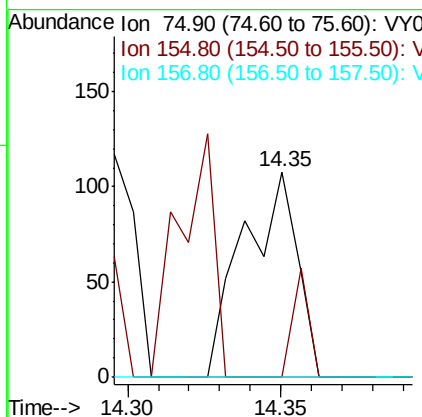
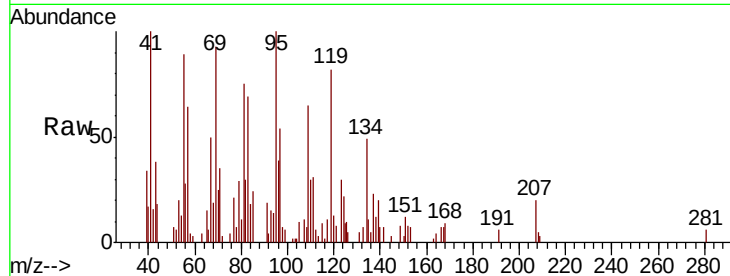




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.305 ug/l
 RT: 14.35 min Scan# 2069
 Delta R.T. -0.01 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

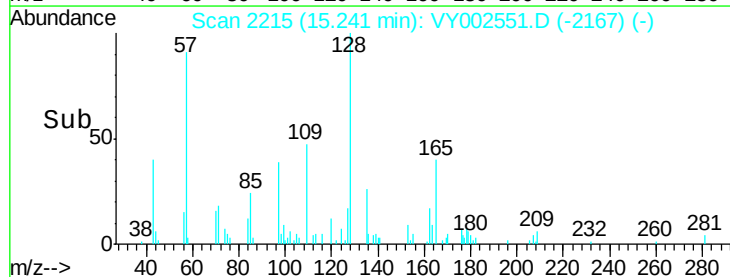
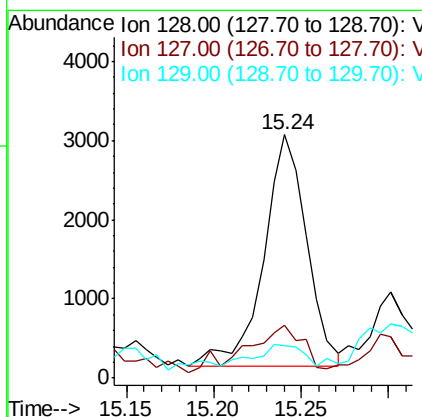
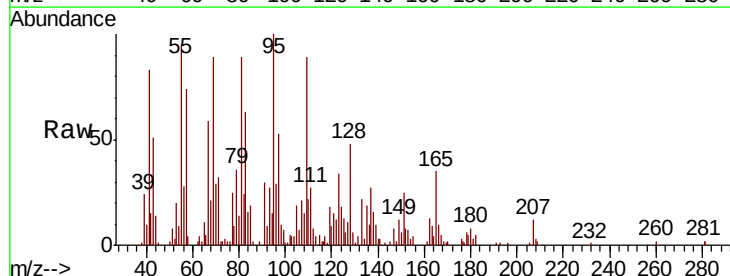
Instrument :
 MSVOA_Y
 ClientSampleId :
 1360-1361

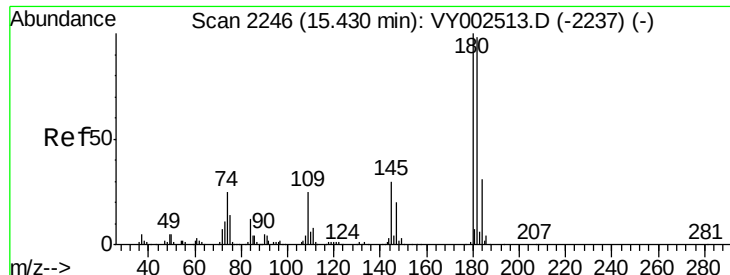
Tot Ion: 75 Resp: 132
 Ion Ratio Lower Upper
 75 100
 155 15.9 51.3 153.9#
 157 0.0 65.0 195.0#



#95
 Naphthalene
 Concen: 2.637 ug/l
 RT: 15.24 min Scan# 2215
 Delta R.T. -0.01 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

Tgt Ion: 128 Resp: 5029
 Ion Ratio Lower Upper
 128 100
 127 26.8 10.5 15.7#
 129 10.1 8.8 13.2

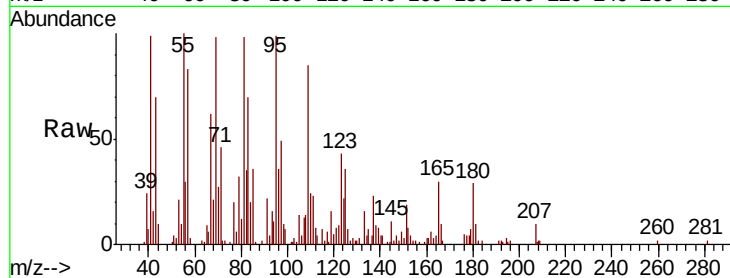




#96
 1,2,3-Trichlorobenzene
 Concen: 3.724 ug/l
 RT: 15.45 min Scan# 2249
 Delta R.T. 0.02 min
 Lab File: VY002551.D
 Acq: 04 May 2020 19:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 1360-1361

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.8#
145	0.0	15.0	45.1#



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

