

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\
 Data File : VY002566.D
 Acq On : 05 May 2020 01:58
 Operator : SY/MD
 Sample : L2478-02
 Misc : 6.36G/5ML/MSVOA Y/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 05 07:18:56 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	7.82	168	348365	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.71	114	569573	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	511884	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	252709	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.17	65	172655	58.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.88%	
35) Dibromofluoromethane	7.75	113	122782	37.69	ug/l	0.01
Spiked Amount	50.000		Recovery	=	75.38%	
50) Toluene-d8	10.20	98	666552	52.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.80%	
62) 4-Bromofluorobenzene	12.49	95	222215	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	

Target Compounds

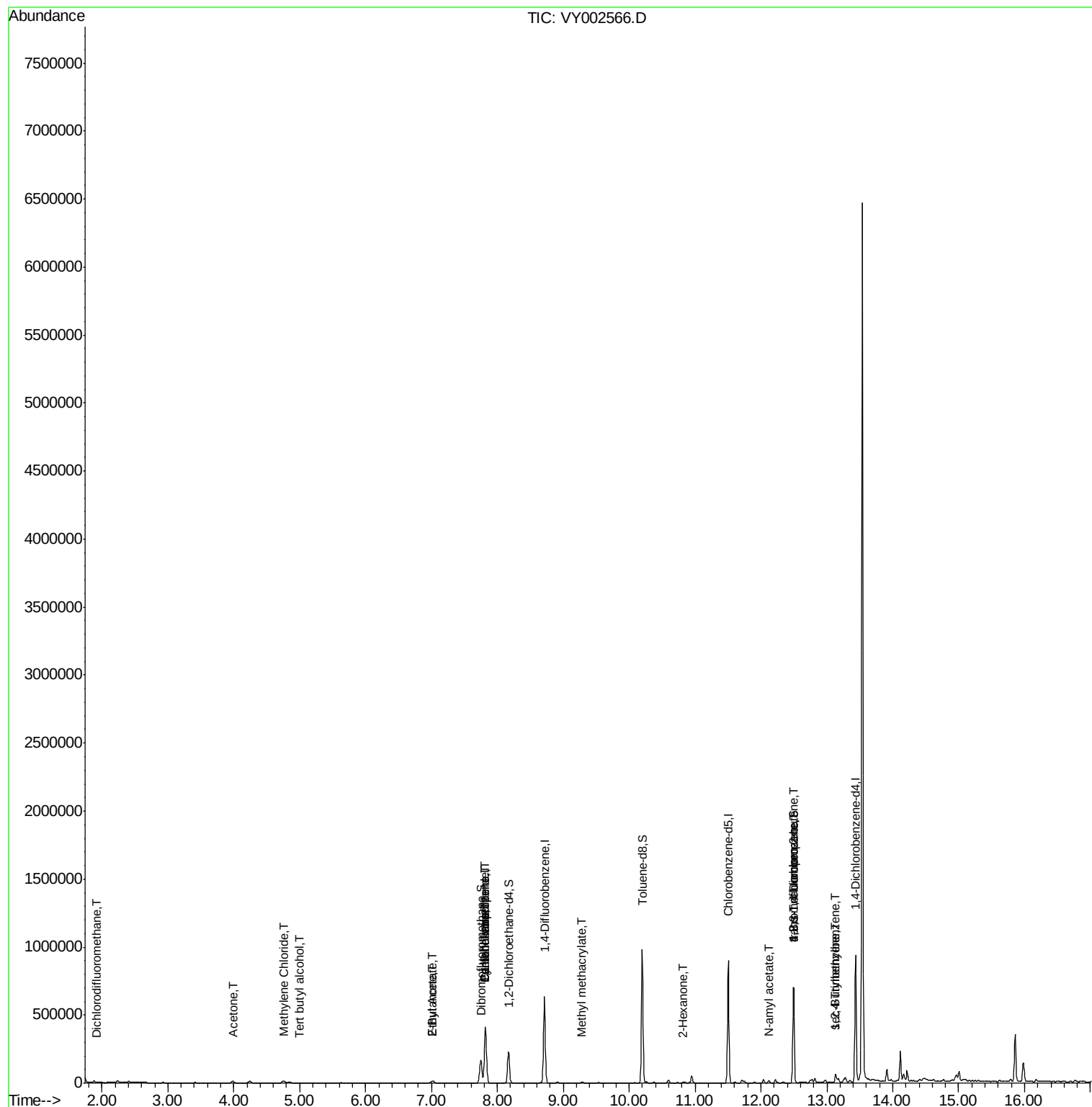
						Qvalue
2) Dichlorodifluoromethane	1.93	85	46	1.800	ug/l #	43
11) Tert butyl alcohol	5.00	59	2207	7.324	ug/l	97
16) Acetone	3.99	43	23819	39.402	ug/l	97
20) Methylene Chloride	4.75	84	12599	3.727	ug/l	97
25) 2-Butanone	7.02	43	6248	6.314	ug/l #	87
31) Cyclohexane	7.81	56	6251	1.187	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	22288	4.668	ug/l #	49
37) Ethyl Acetate	7.02	43	6248	2.546	ug/l #	74
38) Carbon Tetrachloride	7.82	117	31838	6.108	ug/l #	15
48) Methyl methacrylate	9.28	41	2289	1.100	ug/l #	34
59) 2-Hexanone	10.81	43	3645	2.234	ug/l #	22
74) N-amyl acetate	12.12	43	9671	2.455	ug/l #	44
76) 1,2,3-Trichloropropane	12.49	75	106907	47.604	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	106907	95.456	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.13	105	29269	2.163	ug/l	91
85) sec-Butylbenzene	13.13	105	29269	1.772	ug/l #	54

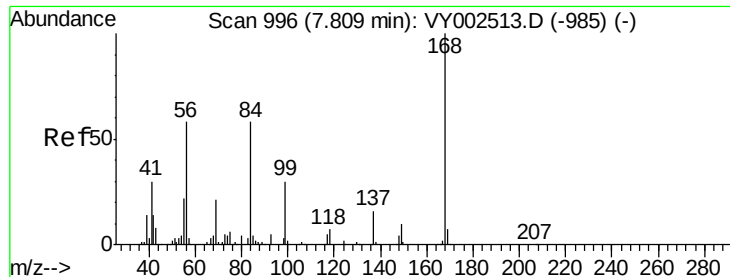
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

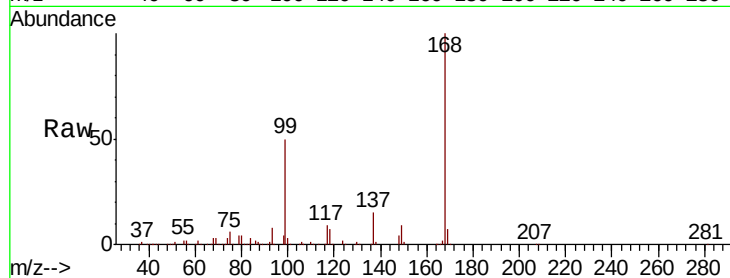
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 348365

Ion Ratio Lower Upper

168 100

99 49.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.82

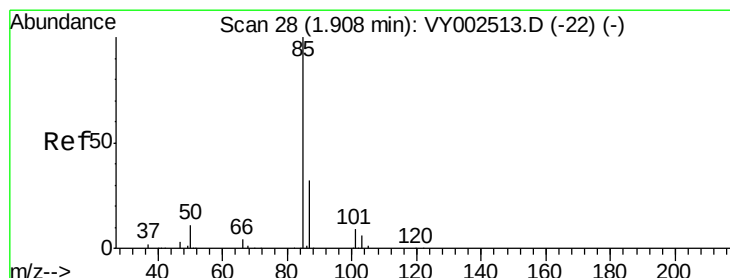
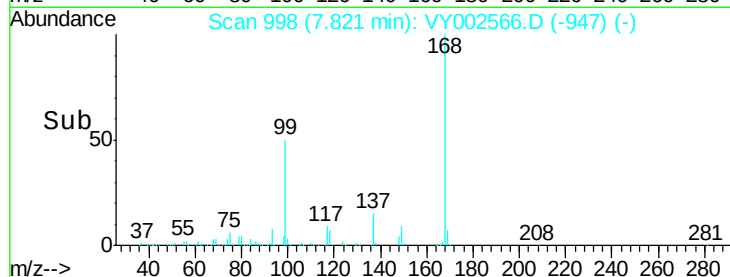
150000

100000

50000

0

Time--> 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 1.800 ug/l

RT: 1.93 min Scan# 31

Delta R.T. 0.02 min

Lab File: VY002566.D

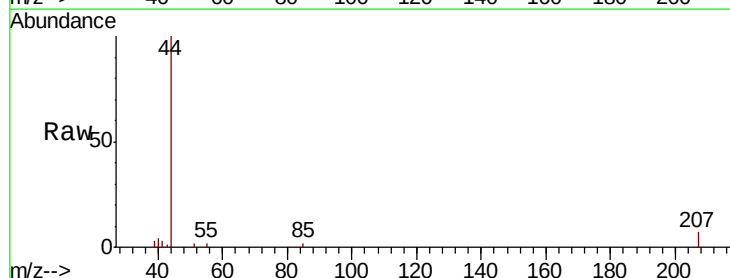
Acq: 05 May 2020 01:58

Tgt Ion: 85 Resp: 46

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.93

80

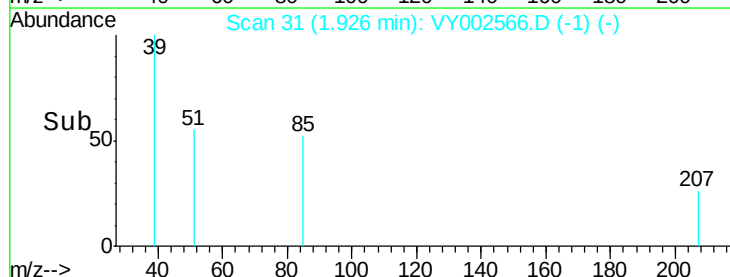
60

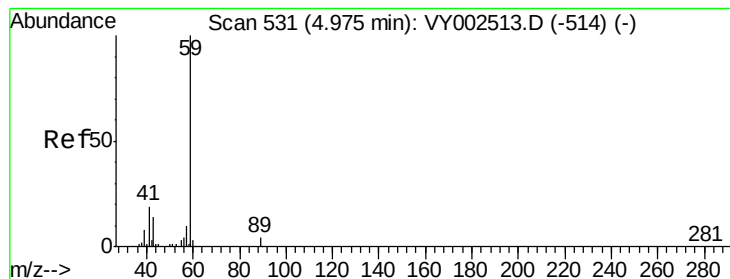
40

20

0

Time--> 1.90 1.92 1.94



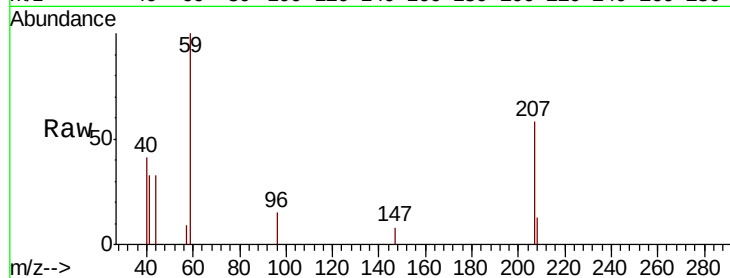


#11

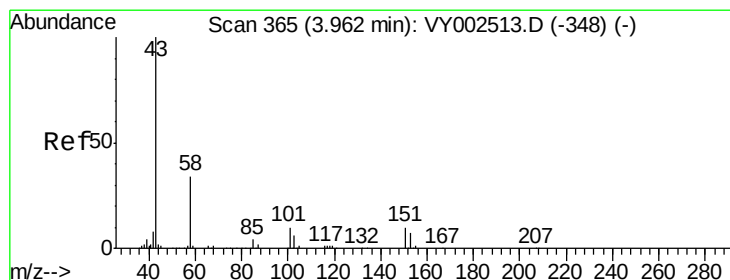
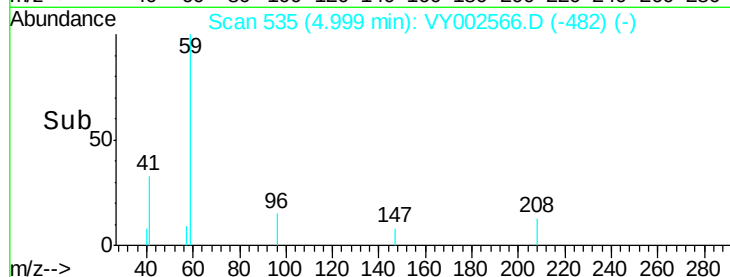
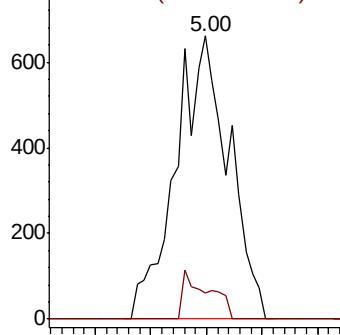
Tert butyl alcohol
 Concen: 7.324 ug/l
 RT: 5.00 min Scan# 535
 Delta R.T. 0.02 min
 Lab File: VY002566.D
 Acq: 05 May 2020 01:58

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion: 59 Resp: 2207
 Ion Ratio Lower Upper
 59 100
 57 8.4 7.8 11.6



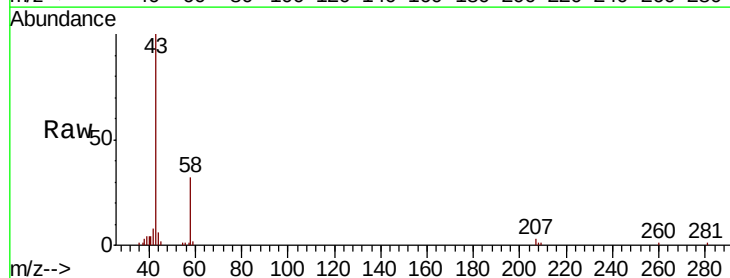
Abundance Ion 59.00 (58.70 to 59.70): VY0
 Ion 57.00 (56.70 to 57.70): VY0



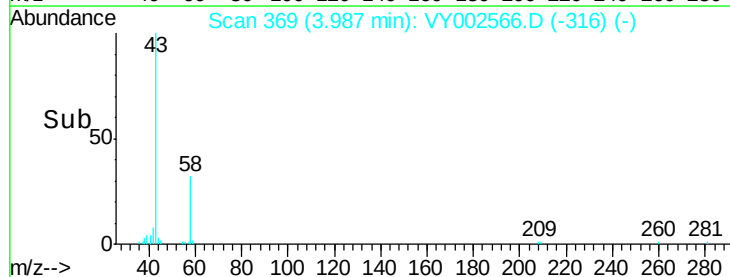
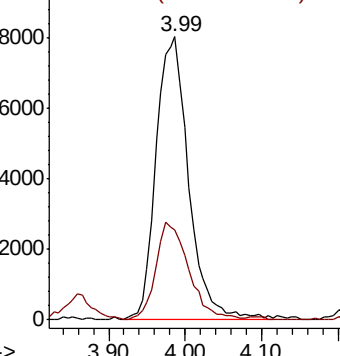
#16

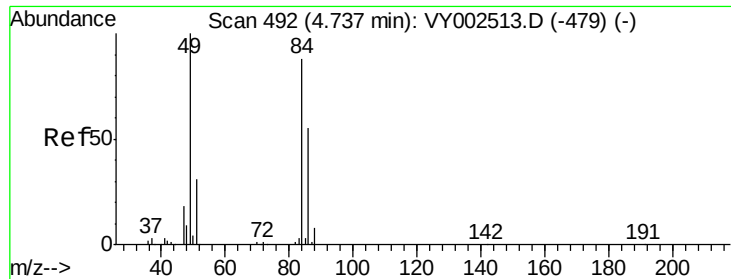
Acetone
 Concen: 39.402 ug/l
 RT: 3.99 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VY002566.D
 Acq: 05 May 2020 01:58

Tgt Ion: 43 Resp: 23819
 Ion Ratio Lower Upper
 43 100
 58 31.9 26.9 40.3



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

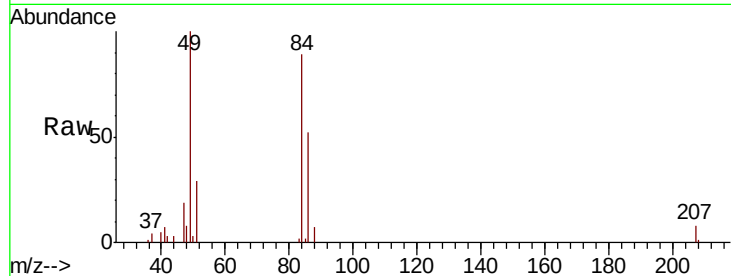




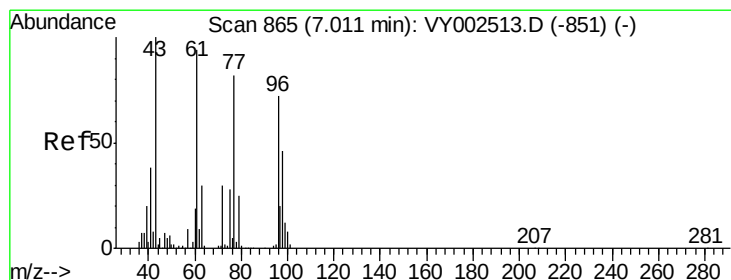
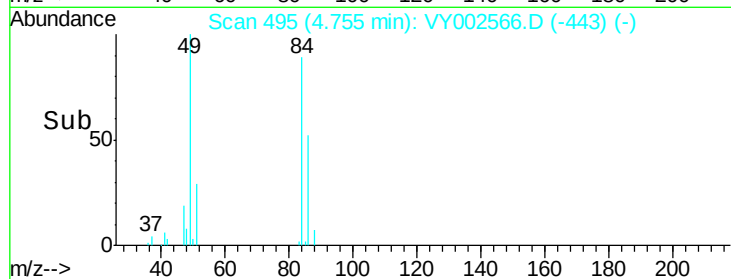
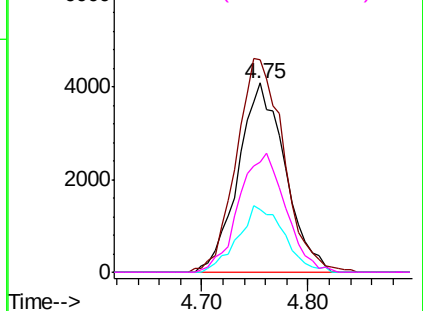
#20
Methylene Chloride
Concen: 3.727 ug/l
RT: 4.75 min Scan# 495
Delta R.T. 0.02 min
Lab File: VY002566.D
Acq: 05 May 2020 01:58

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:	84	Resp:	12599
Ion	Ratio	Lower	Upper
84	100		
49	112.4	90.5	135.7
51	33.0	28.3	42.5
86	58.3	49.9	74.9

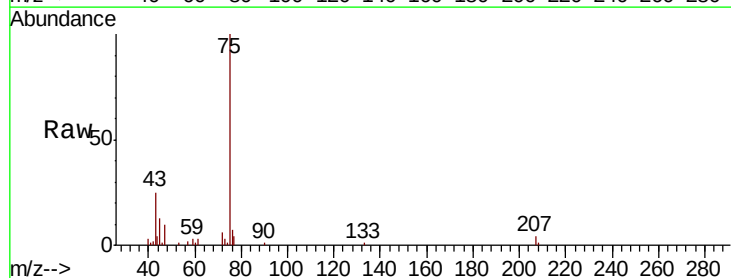


Abundance Ion 83.90 (83.60 to 84.60): VY0
Ion 48.90 (48.60 to 49.60): VY0
Ion 50.90 (50.60 to 51.60): VY0
Ion 85.90 (85.60 to 86.60): VY0

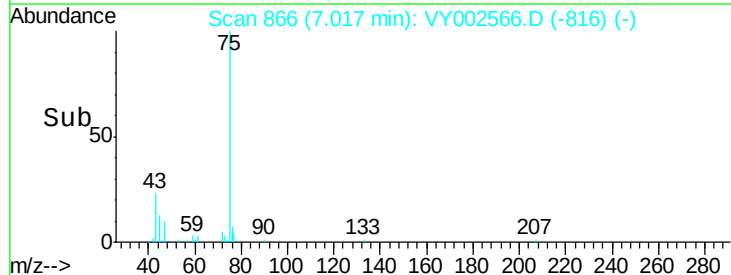
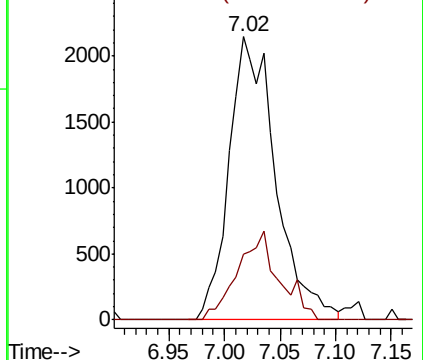


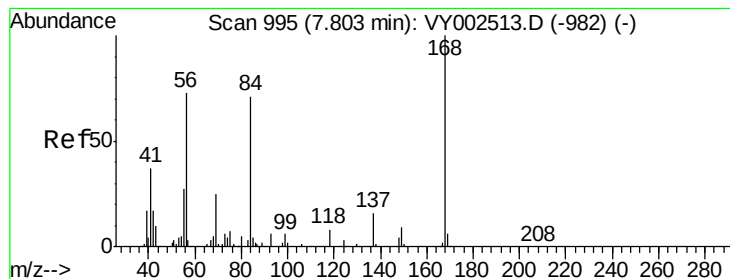
#25
2-Butanone
Concen: 6.314 ug/l
RT: 7.02 min Scan# 866
Delta R.T. 0.01 min
Lab File: VY002566.D
Acq: 05 May 2020 01:58

Tgt Ion:	43	Resp:	6248
Ion	Ratio	Lower	Upper
43	100		
72	23.3	24.1	36.1#



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





#31

Cyclohexane

Concen: 1.187 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.01 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Instrument :

MSVOA_Y

ClientSampleId :

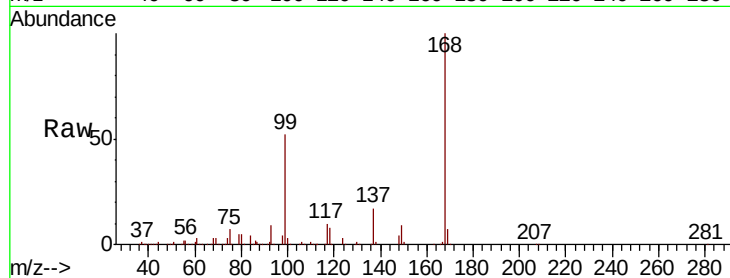
Tot Ion: 56 Resp: 6251

Ion Ratio Lower Upper

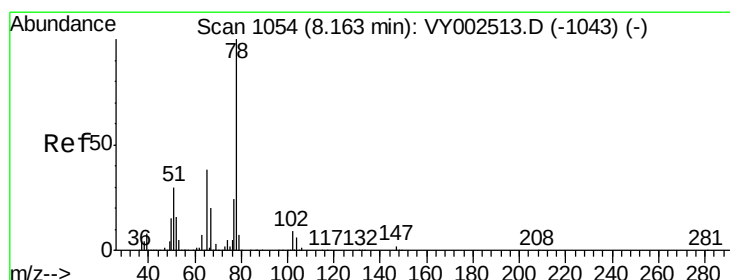
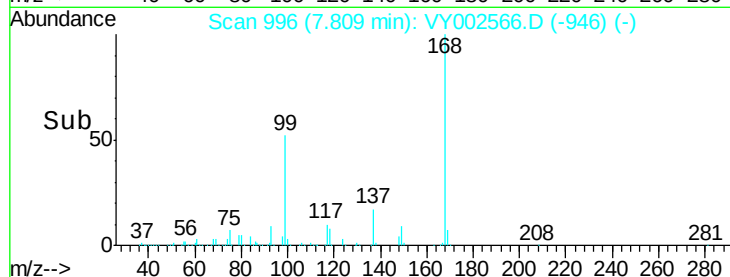
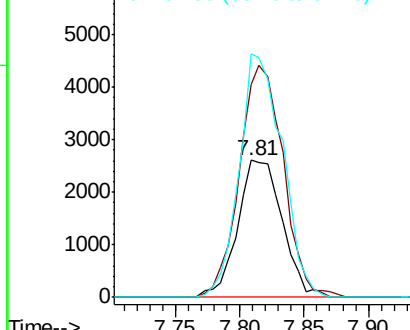
56 100

69 155.4 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: 58.944 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY002566.D

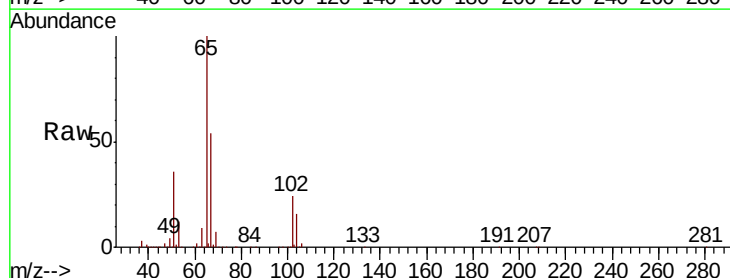
Acq: 05 May 2020 01:58

Tgt Ion: 65 Resp: 172655

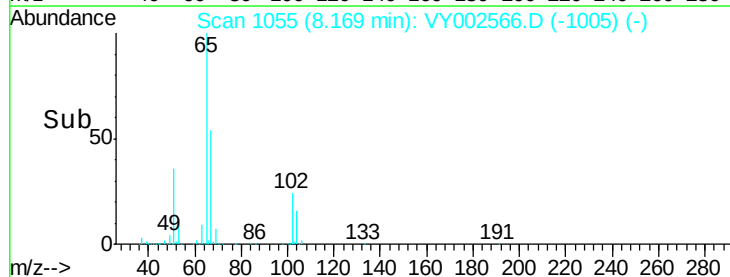
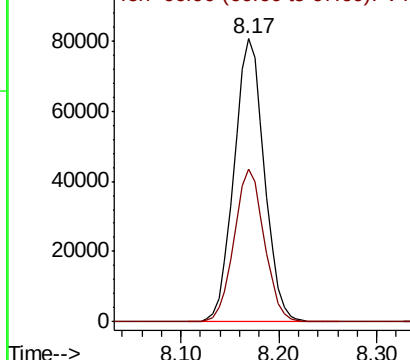
Ion Ratio Lower Upper

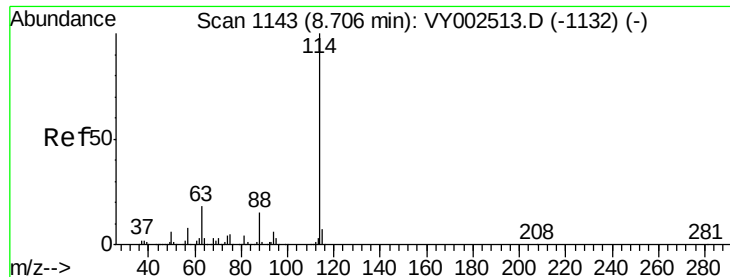
65 100

67 53.8 0.0 107.2



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

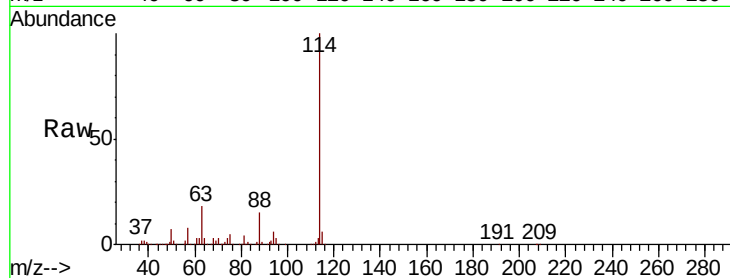




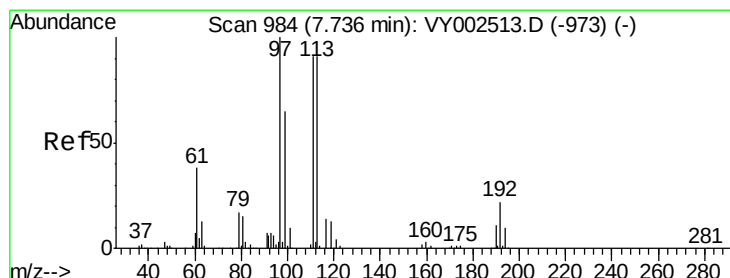
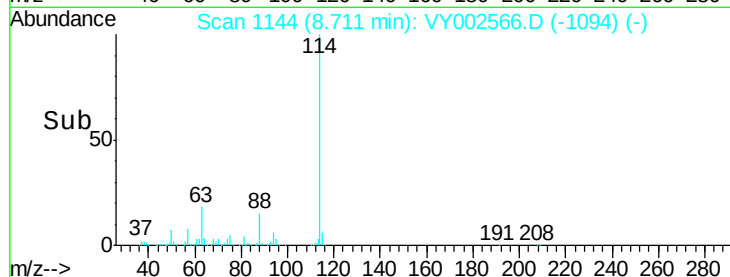
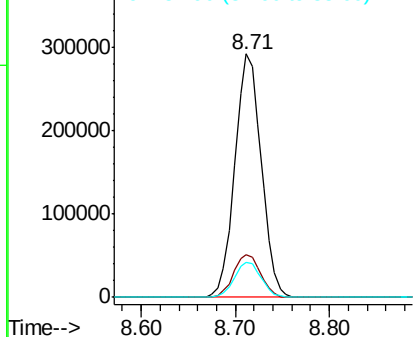
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1144
 Delta R.T. 0.01 min
 Lab File: VY002566.D
 Acq: 05 May 2020 01:58

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	36.4
88	14.6	0.0	29.6

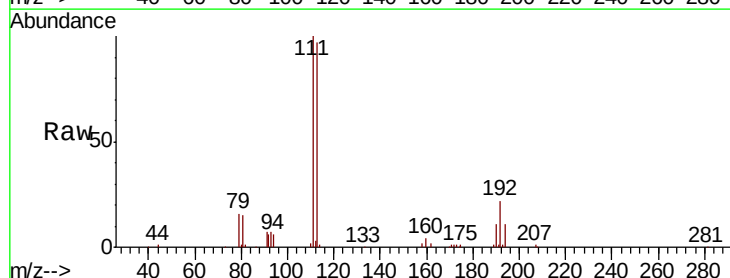


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

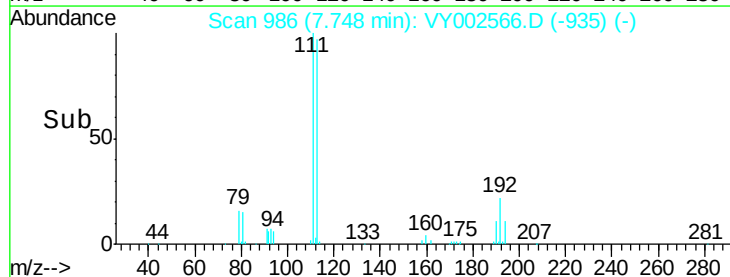
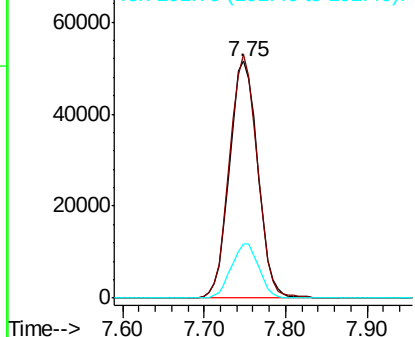


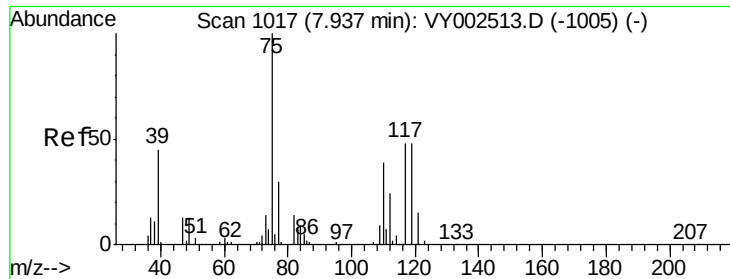
#35
 Dibromofluoromethane
 Concen: 37.693 ug/l
 RT: 7.75 min Scan# 986
 Delta R.T. 0.01 min
 Lab File: VY002566.D
 Acq: 05 May 2020 01:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.8	122.6
192	22.3	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

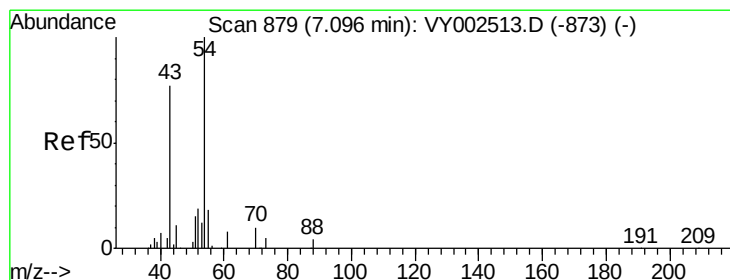
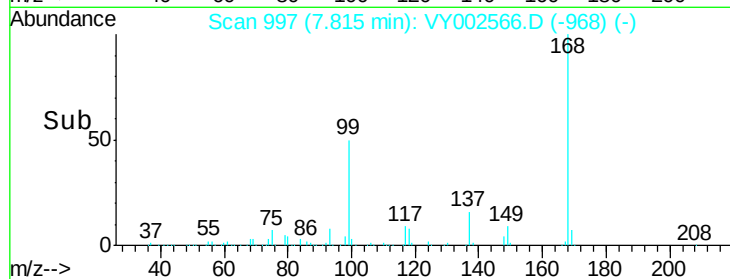
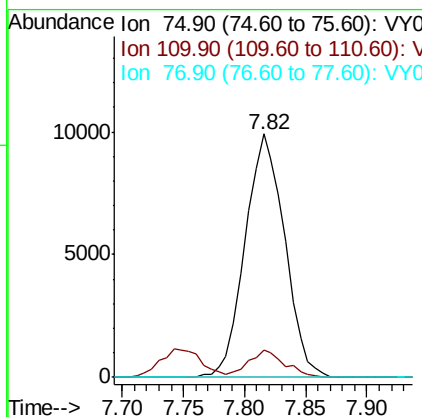
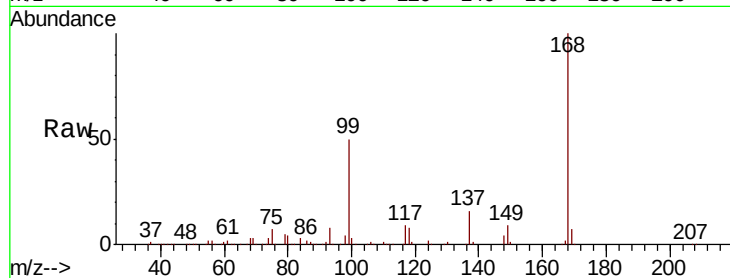




#36
 1,1-Dichloropropene
 Concen: 4.668 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.12 min
 Lab File: VY002566.D
 Acq: 05 May 2020 01:58

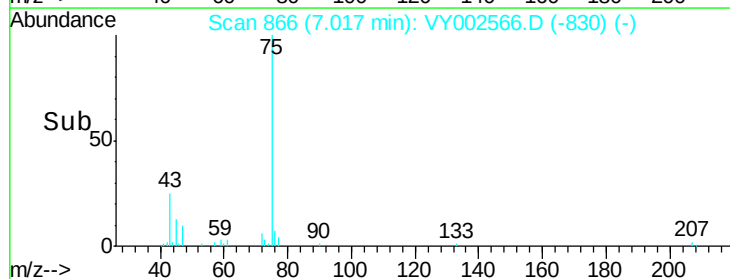
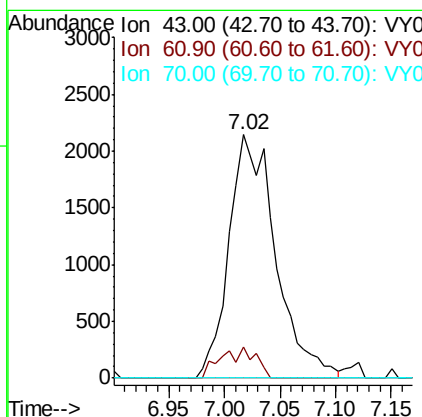
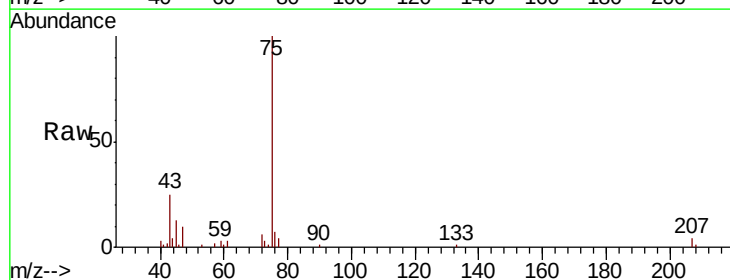
Instrument :
 MSVOA_Y
 ClientSampleId :

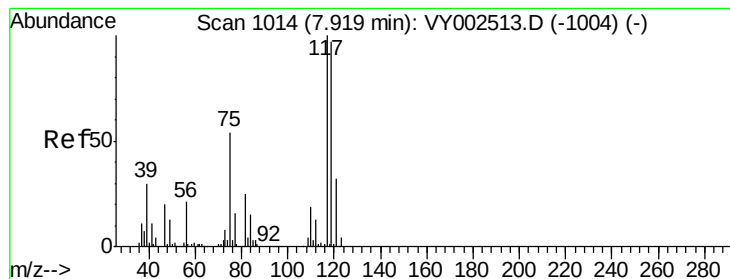
Tot Ion	75	Resp	22288
Ion Ratio	100	Lower	Upper
75	100		
110	10.2	19.1	57.3#
77	0.0	24.6	37.0#



#37
 Ethyl Acetate
 Concen: 2.546 ug/l
 RT: 7.02 min Scan# 866
 Delta R.T. -0.08 min
 Lab File: VY002566.D
 Acq: 05 May 2020 01:58

Tgt Ion	43	Resp	6248
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	5.1	11.6	17.4#
70	0.0	9.0	13.6#





#38

Carbon Tetrachloride

Concen: 6.108 ug/l

RT: 7.82 min Scan# 998

Delta R.T. -0.10 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Instrument :

MSVOA_Y

ClientSampleId :

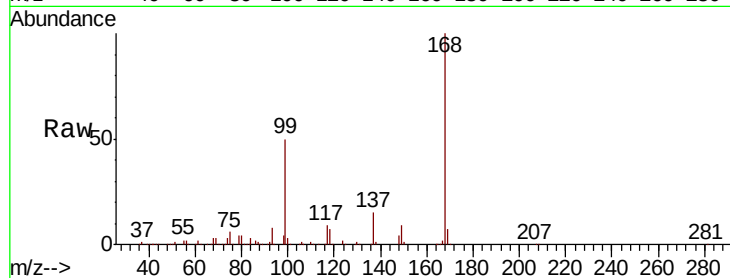
Tot Ion:117 Resp: 31838

Ion Ratio Lower Upper

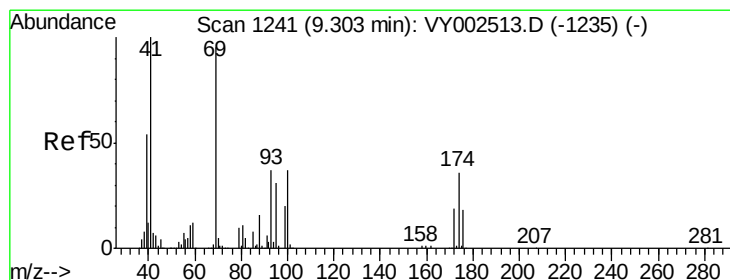
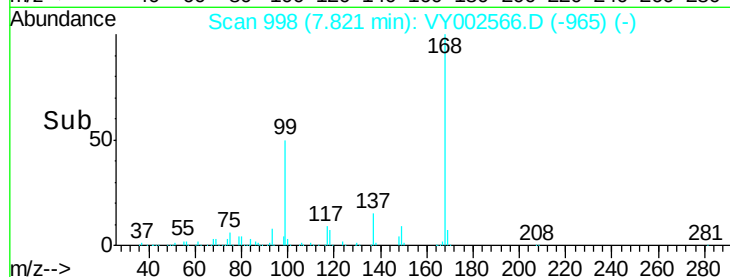
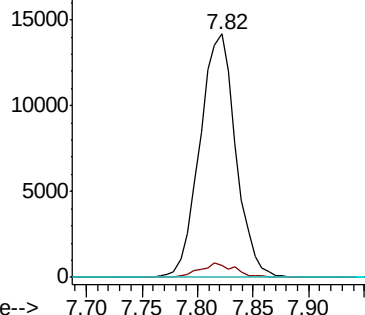
117 100

119 4.7 77.1 115.7#

121 0.0 25.2 37.8#



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



#48

Methyl methacrylate

Concen: 1.100 ug/l

RT: 9.28 min Scan# 1238

Delta R.T. -0.02 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

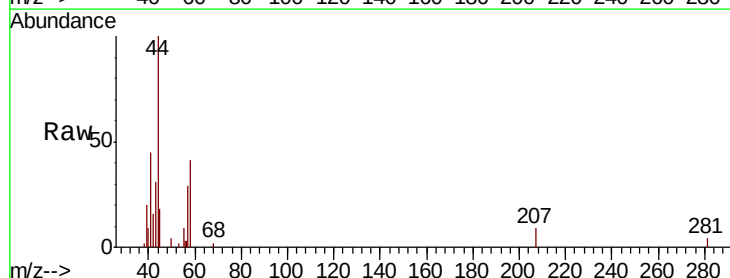
Tgt Ion: 41 Resp: 2289

Ion Ratio Lower Upper

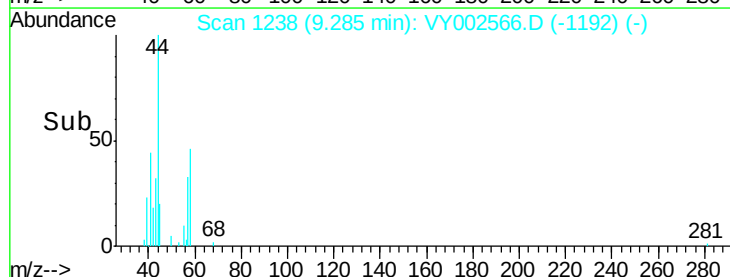
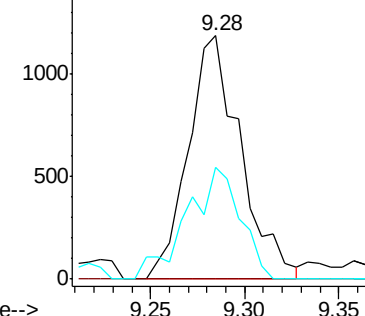
41 100

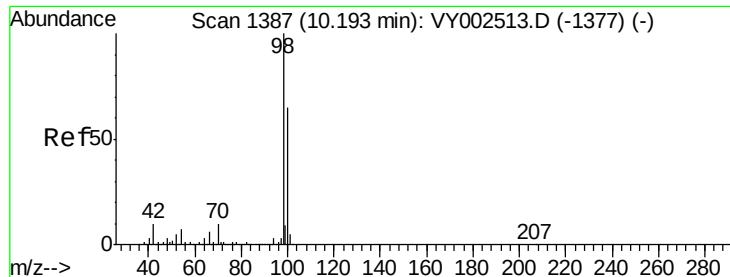
69 0.0 76.2 114.4#

39 46.8 42.7 64.1



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0





#50

Toluene-d8

Concen: 52.399 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Instrument :

MSVOA_Y

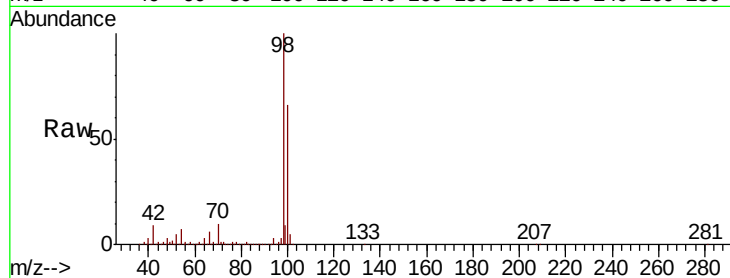
ClientSampleId :

Tot Ion: 98 Resp: 66652

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

10.20

400000

300000

200000

100000

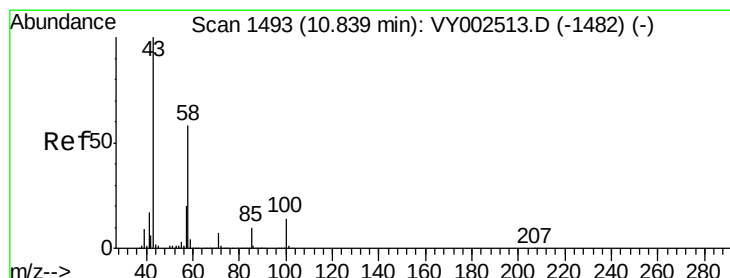
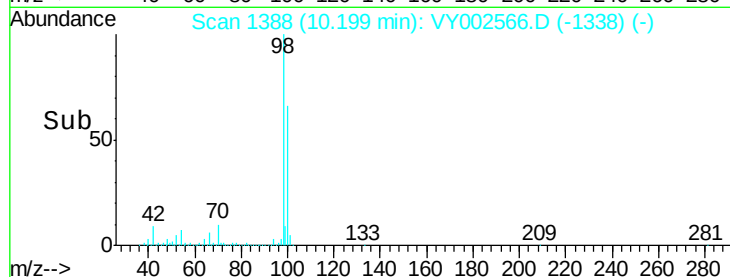
0

Time-->

10.10

10.20

10.30



#59

2-Hexanone

Concen: 2.234 ug/l

RT: 10.81 min Scan# 1489

Delta R.T. -0.02 min

Lab File: VY002566.D

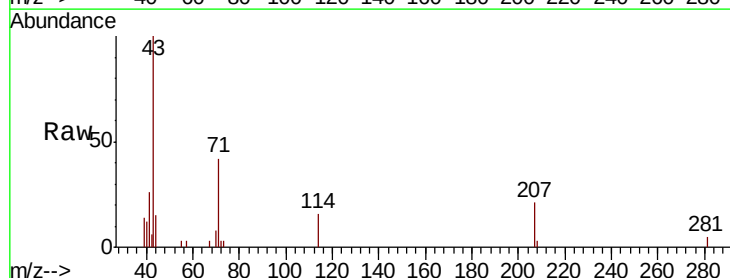
Acq: 05 May 2020 01:58

Tgt Ion: 43 Resp: 3645

Ion Ratio Lower Upper

43 100

58 0.0 29.1 87.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10.81

2000

1500

1000

500

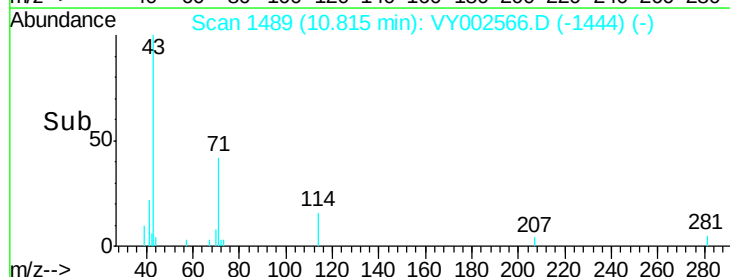
0

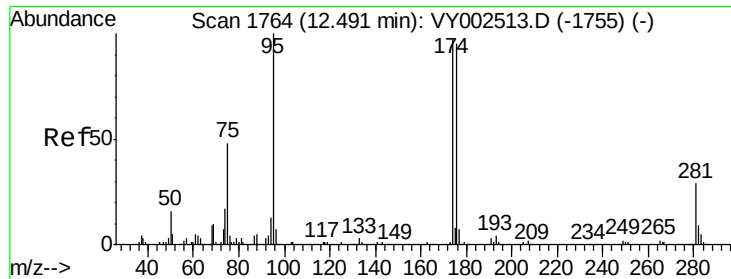
Time-->

10.80

10.81

10.85

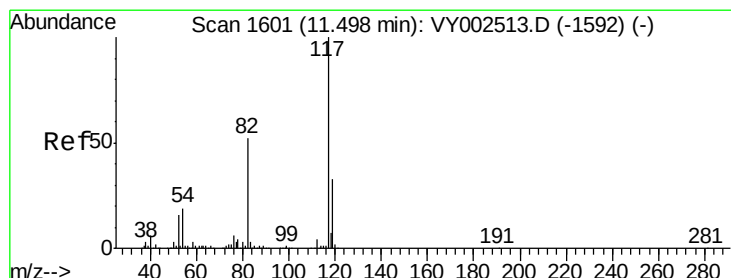
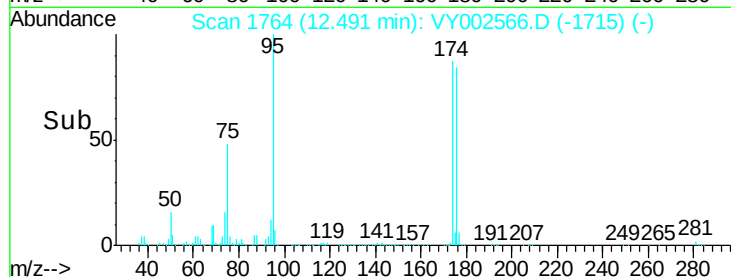
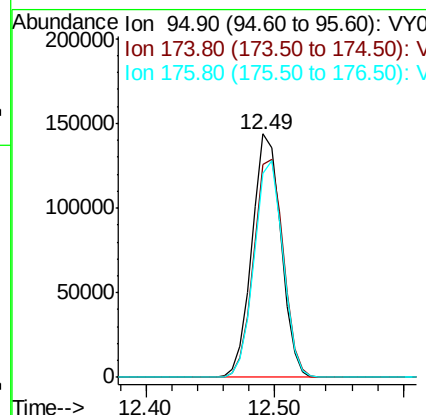
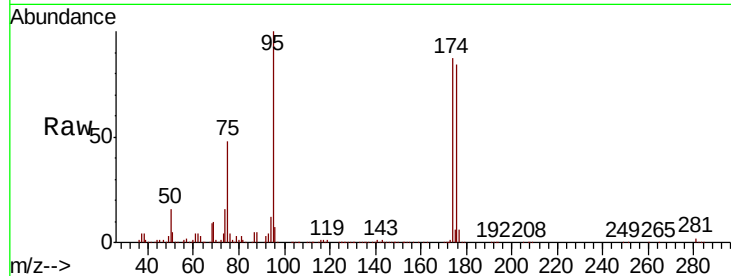




#62
4-Bromofluorobenzene
Concen: 51.481 ug/l
RT: 12.49 min Scan# 1764
Delta R.T. -0.00 min
Lab File: VY002566.D
Acq: 05 May 2020 01:58

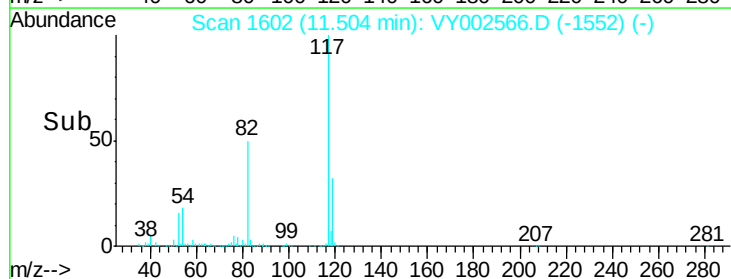
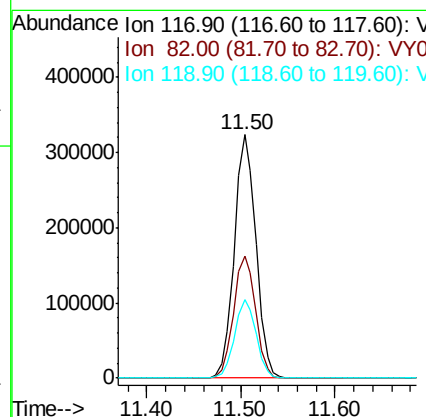
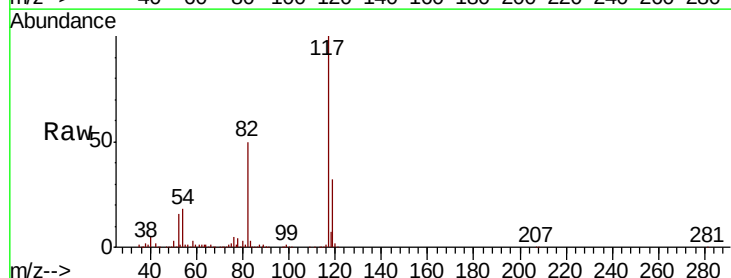
Instrument :
MSVOA_Y
ClientSampleId :

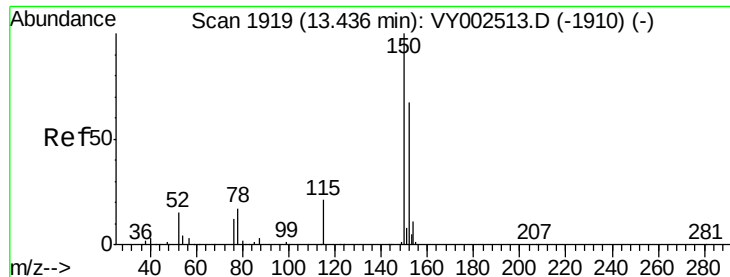
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.6	0.0	188.8
176	88.3	0.0	183.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.01 min
Lab File: VY002566.D
Acq: 05 May 2020 01:58

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.4	41.3	61.9
119	32.1	26.0	39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Instrument :

MSVOA_Y

ClientSampleId :

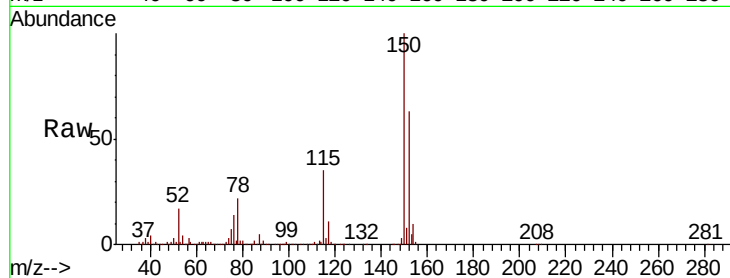
Tot Ion:152 Resp: 252709

Ion Ratio Lower Upper

152 100

115 55.1 27.5 82.4

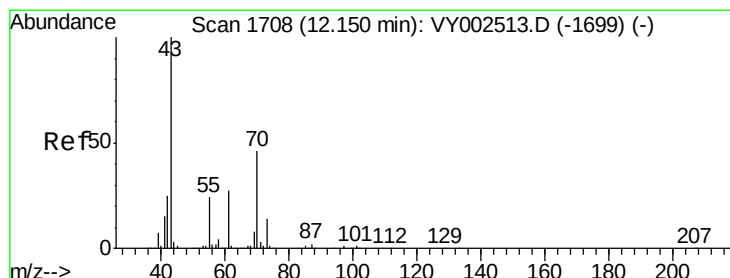
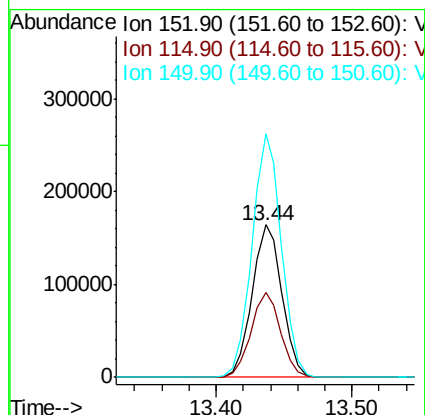
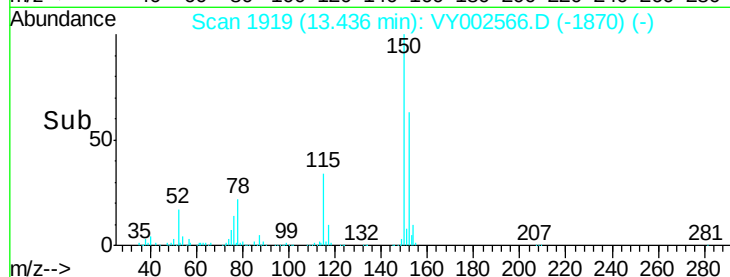
150 156.8 0.0 346.4



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



#74

N-amil acetate

Concen: 2.455 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.03 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Tgt Ion: 43 Resp: 9671

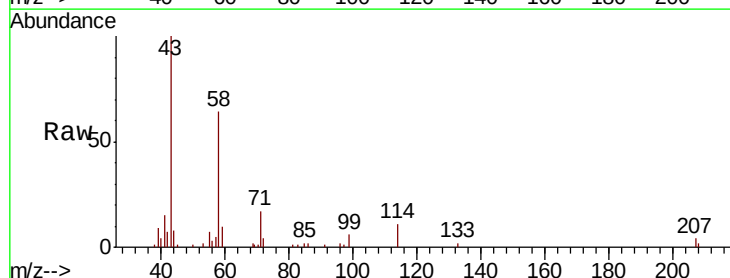
Ion Ratio Lower Upper

43 100

70 0.0 36.7 55.1#

55 7.6 19.2 28.8#

61 0.0 21.1 31.7#

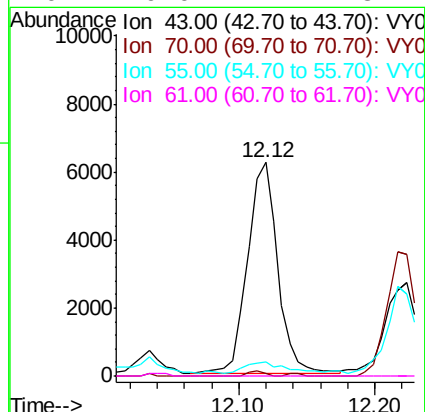
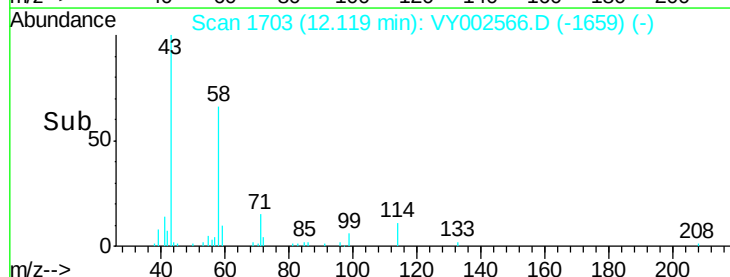


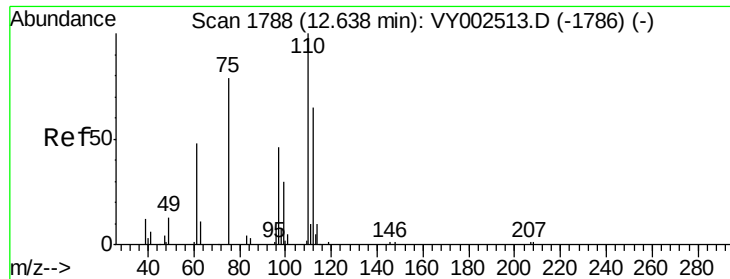
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#76

1,2,3-Trichloropropane

Concen: 47.604 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Instrument :

MSVOA_Y

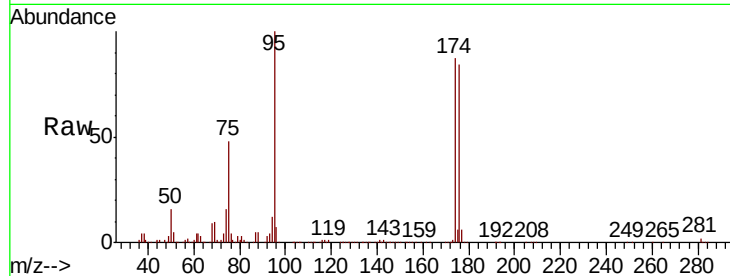
ClientSampleId :

Tot Ion: 75 Resp: 106907

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

12.49

80000

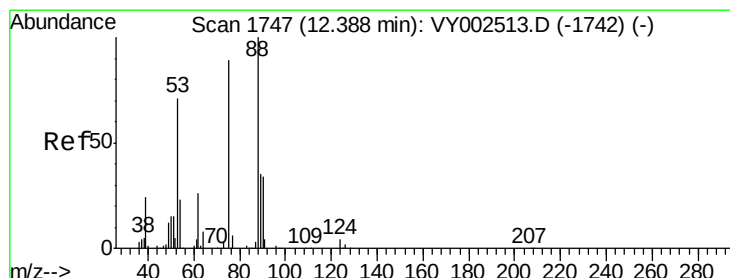
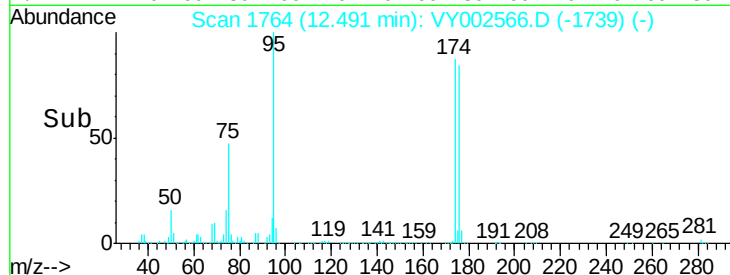
60000

40000

20000

0

Time--> 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 95.456 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

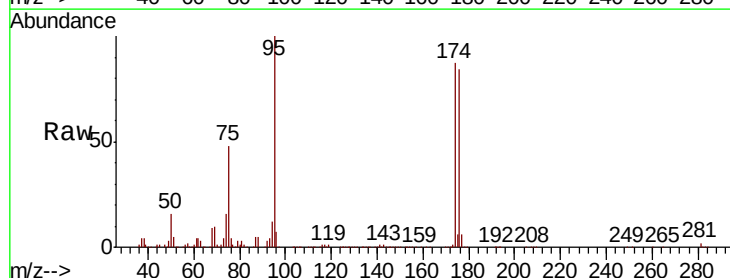
Tgt Ion: 75 Resp: 106907

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.1 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

12.49

80000

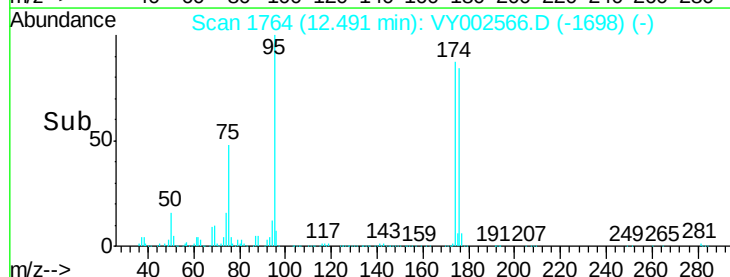
60000

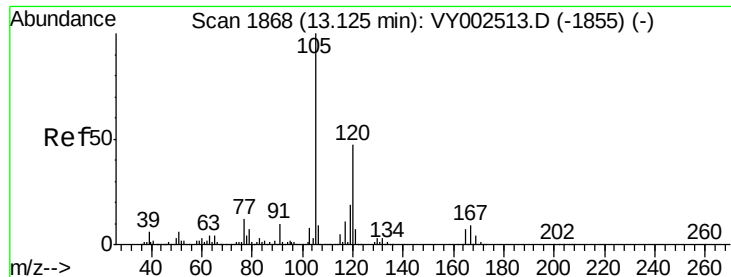
40000

20000

0

Time--> 12.40 12.50





#84

1,2,4-Trimethylbenzene

Concen: 2.163 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY002566.D

Acq: 05 May 2020 01:58

Instrument :

MSVOA_Y

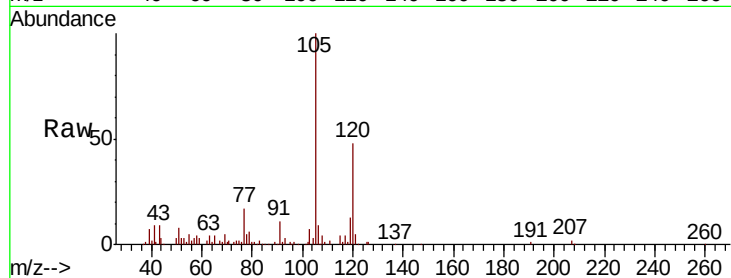
ClientSampled :

Tot Ion:105 Resp: 29269

Ion Ratio Lower Upper

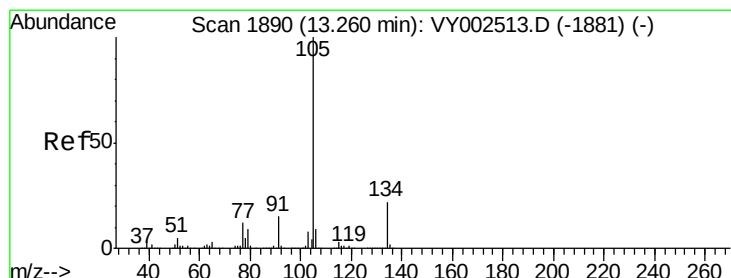
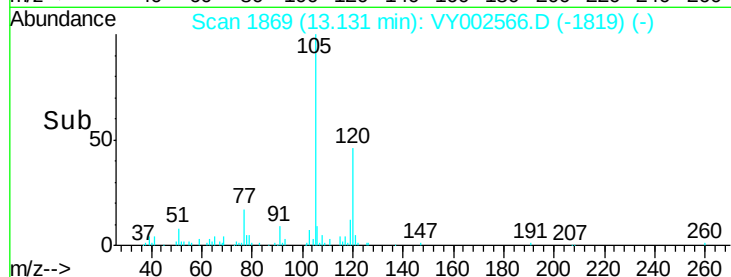
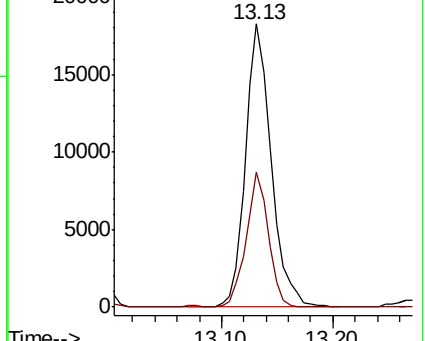
105 100

120 41.0 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.772 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. -0.13 min

Lab File: VY002566.D

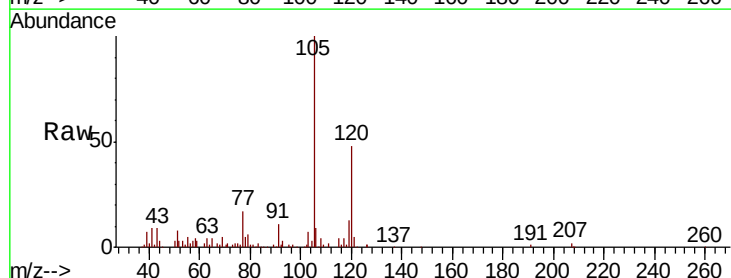
Acq: 05 May 2020 01:58

Tgt Ion:105 Resp: 29269

Ion Ratio Lower Upper

105 100

134 0.0 10.8 32.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

