

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101119\
 Data File : VY000277.D
 Acq On : 11 Oct 2019 17:48
 Operator : SY/MD
 Sample : K5266-03
 Misc : 5.10G/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 14 07:37:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 14 07:29:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	221459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	405298	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	341065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	148793	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	124707	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	
35) Dibromofluoromethane	7.73	113	118237	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	10.18	98	446355	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
62) 4-Bromofluorobenzene	12.48	95	147809	41.37	ug/l	0.00
Spiked Amount			Recovery	=	82.74%	

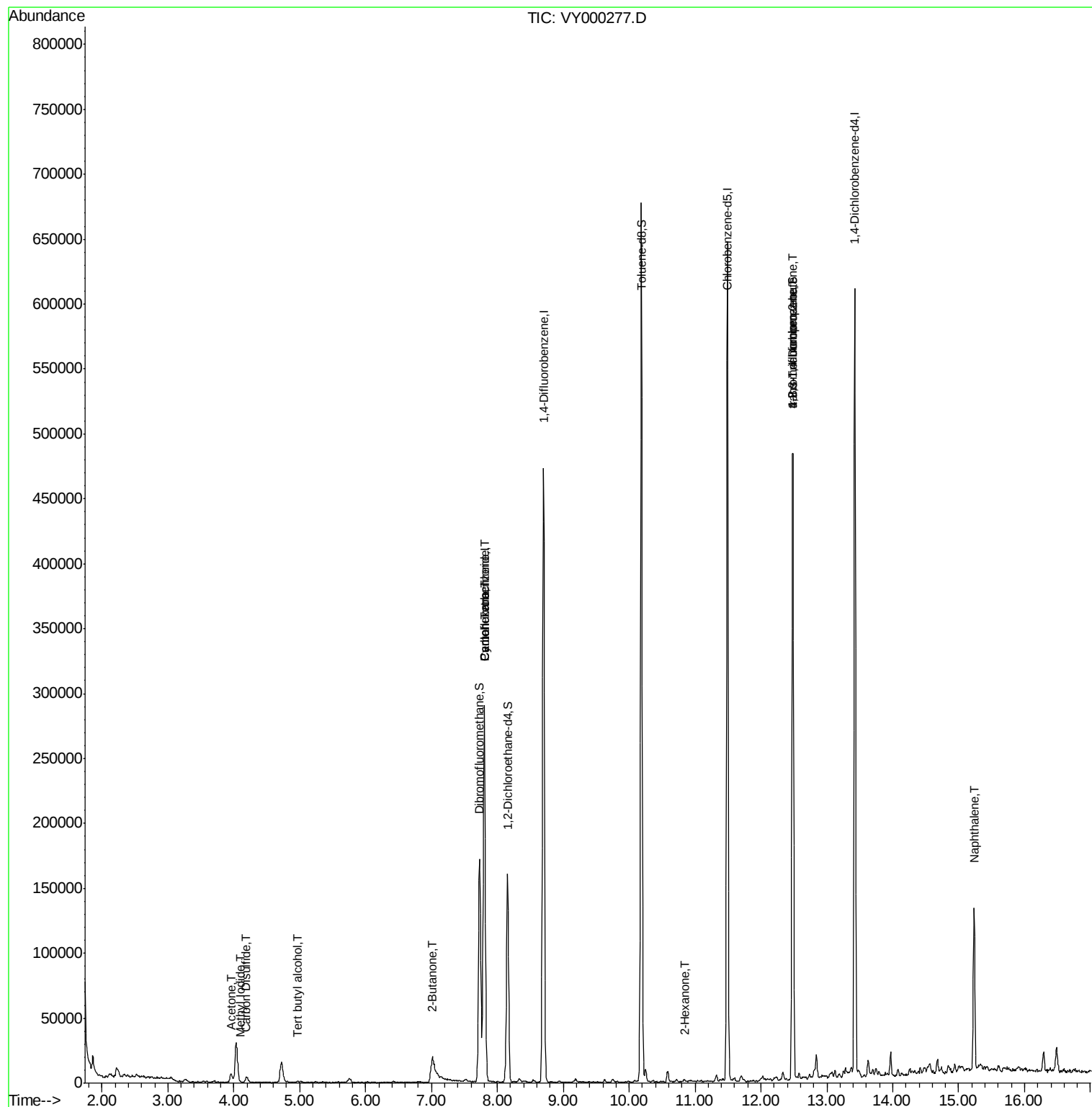
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	111	Below Cal	#	41
5) Bromomethane	2.58	94	49	Below Cal	#	3
10) Methyl Iodide	4.10	142	58	1.203	ug/l #	41
11) Tert butyl alcohol	4.97	59	569	2.327	ug/l #	73
16) Acetone	3.96	43	11269	14.896	ug/l	99
17) Carbon Disulfide	4.19	76	8096	1.150	ug/l	99
20) Methylene Chloride	4.72	84	11157	Below Cal		85
25) 2-Butanone	7.00	43	5537	5.196	ug/l	100
31) Cyclohexane	7.80	56	5406	1.210	ug/l #	1
38) Carbon Tetrachloride	7.80	117	21408	5.572	ug/l #	19
59) 2-Hexanone	10.84	43	1919	1.186	ug/l	69
76) 1,2,3-Trichloropropane	12.48	75	78236	42.760	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	78236	93.558	ug/l #	14
95) Naphthalene	15.23	128	98666	13.795	ug/l	99

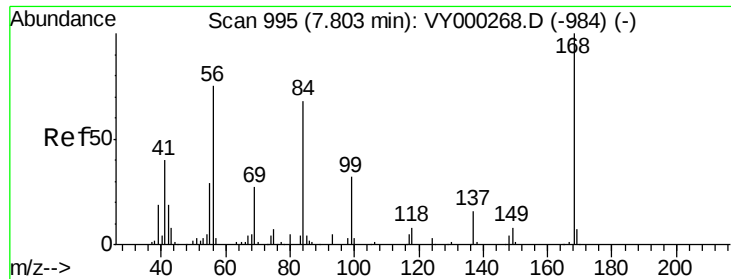
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

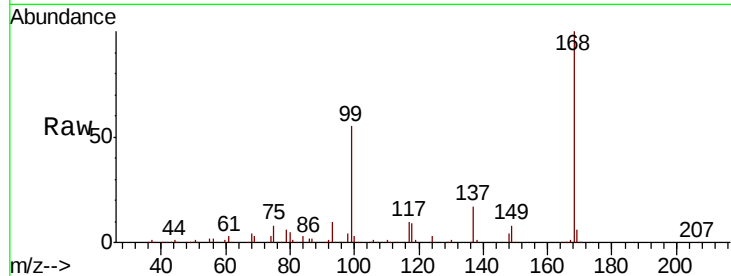
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 221459

Ion Ratio Lower Upper

168 100

99 54.9 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000268.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000268.D (-984) (-)

7.80

100000

80000

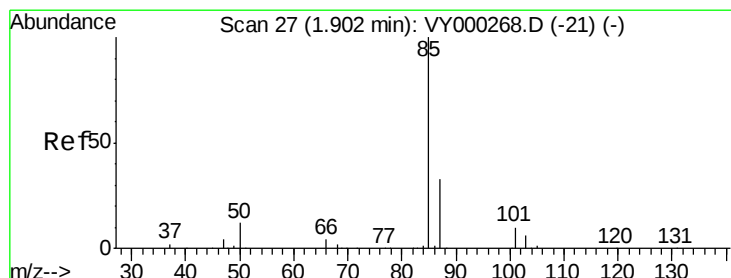
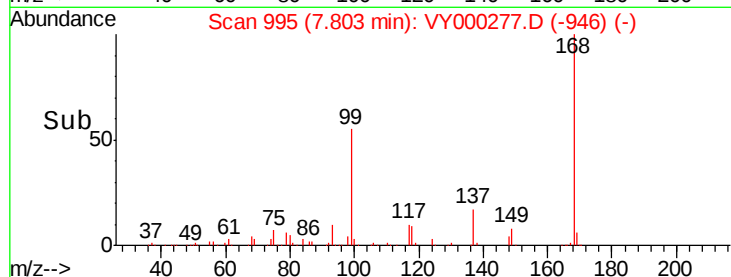
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000277.D

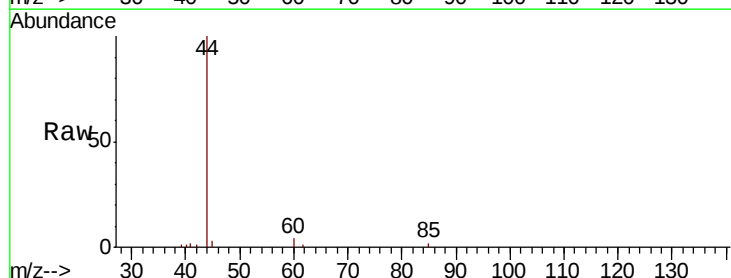
Acq: 11 Oct 2019 17:48

Tgt Ion: 85 Resp: 111

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000268.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY000268.D (-21) (-)

1.90

200

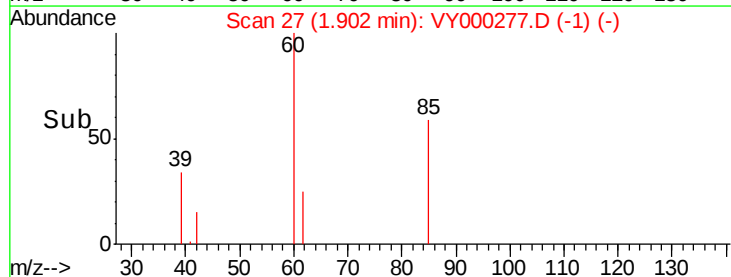
150

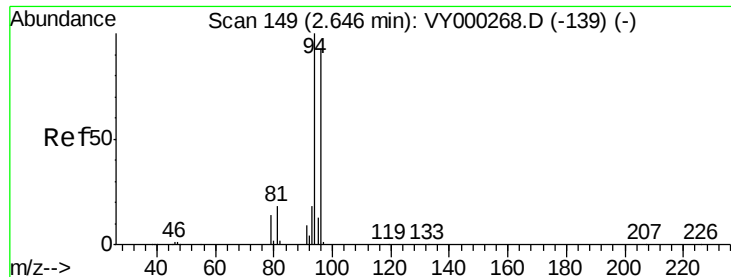
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 138

Delta R.T. -0.07 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Instrument :

MSVOA_Y

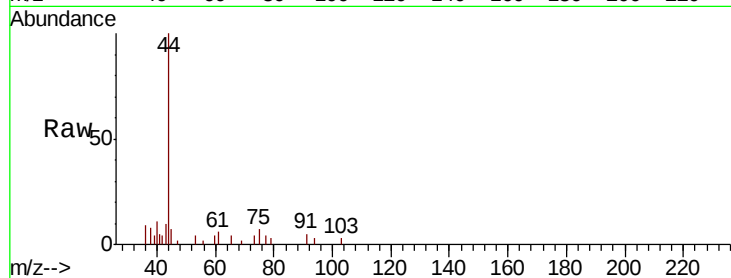
ClientSampleId :

Tot Ion: 94 Resp: 49

Ion Ratio Lower Upper

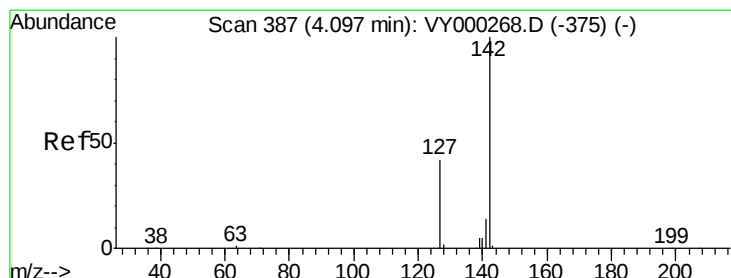
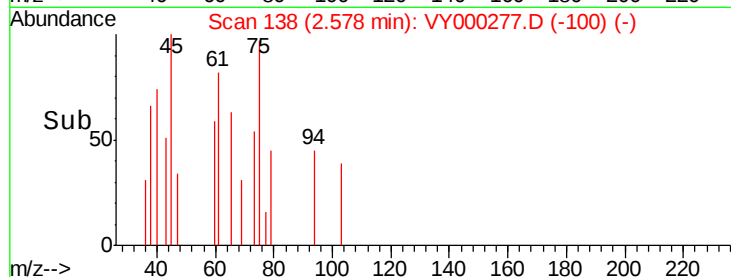
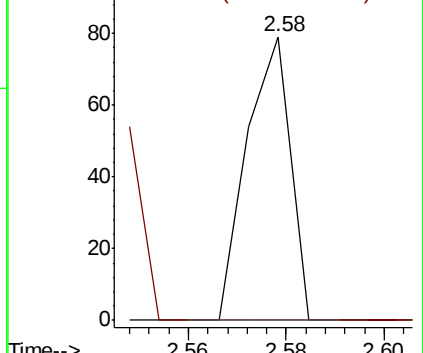
94 100

96 0.0 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#10

Methyl Iodide

Concen: 1.203 ug/l

RT: 4.10 min Scan# 388

Delta R.T. 0.01 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

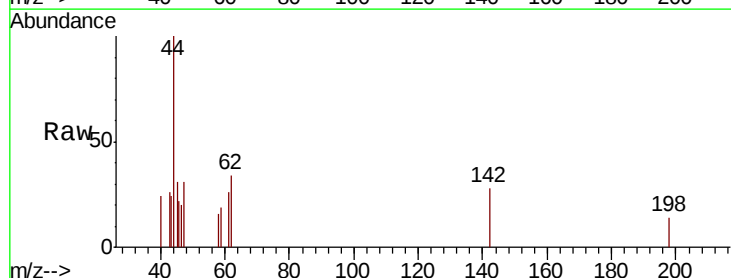
Tgt Ion:142 Resp: 58

Ion Ratio Lower Upper

142 100

127 0.0 33.9 50.9#

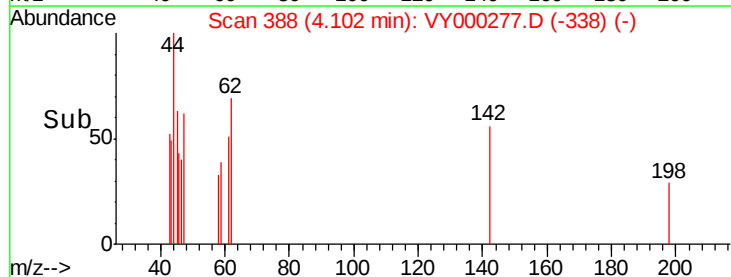
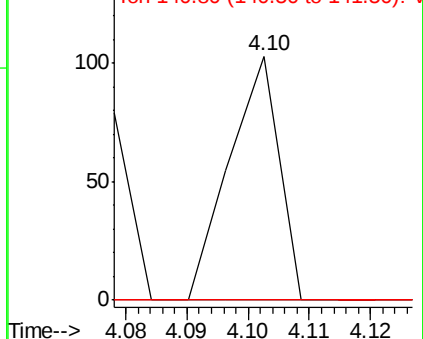
141 0.0 11.2 16.8#

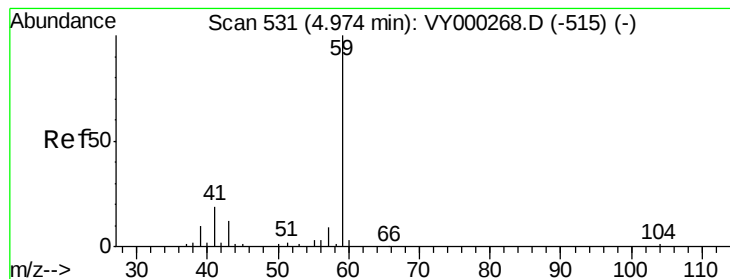


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



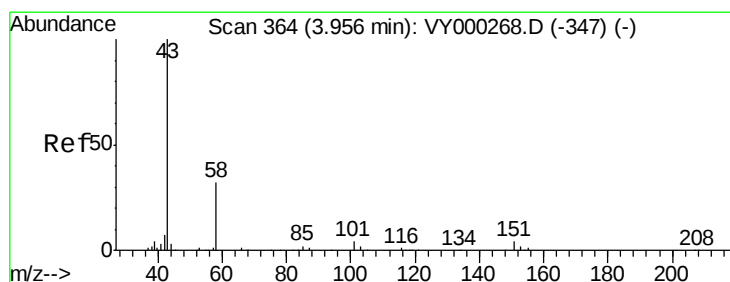
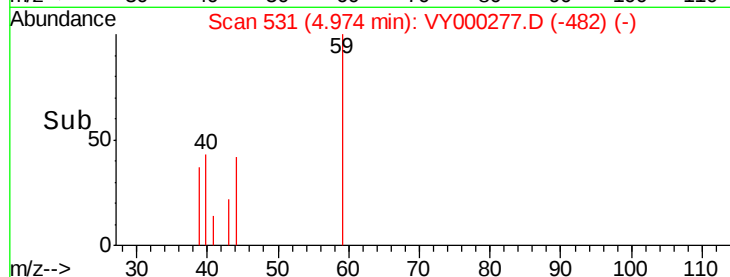
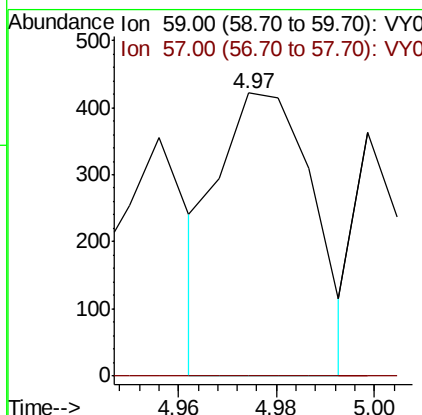
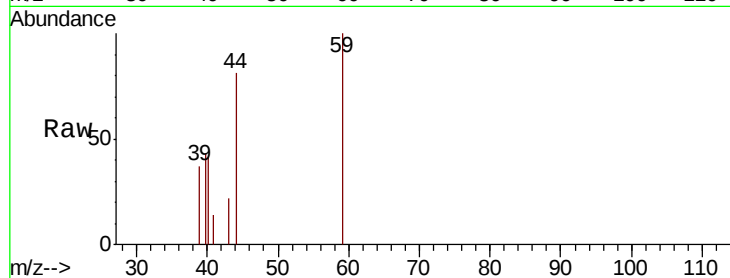


#11

Tert butyl alcohol
 Concen: 2.327 ug/l
 RT: 4.97 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VY000277.D
 Acq: 11 Oct 2019 17:48

Instrument :
 MSVOA_Y
 ClientSampled :

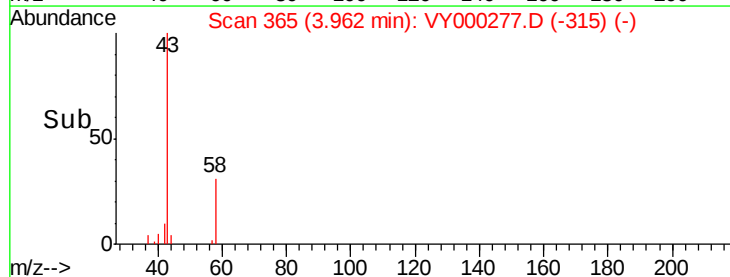
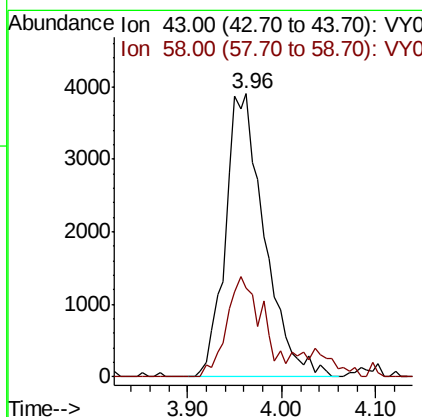
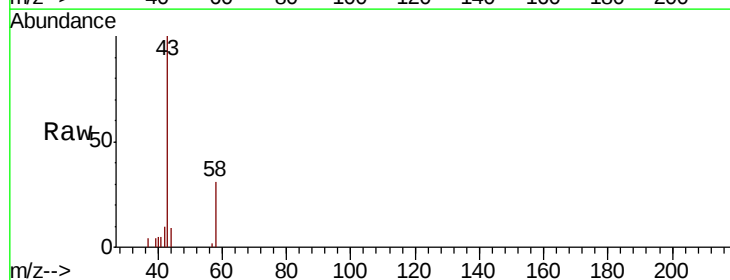
Tot Ion: 59 Resp: 569
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

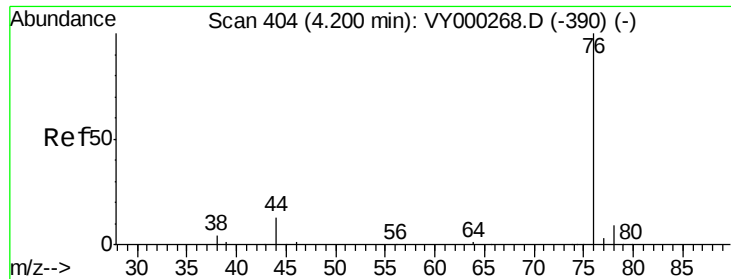


#16

Acetone
 Concen: 14.896 ug/l
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VY000277.D
 Acq: 11 Oct 2019 17:48

Tgt Ion: 43 Resp: 11269
 Ion Ratio Lower Upper
 43 100
 58 31.4 25.8 38.6





#17

Carbon Disulfide

Concen: 1.150 ug/l

RT: 4.19 min Scan# 403

Delta R.T. -0.01 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Instrument :

MSVOA_Y

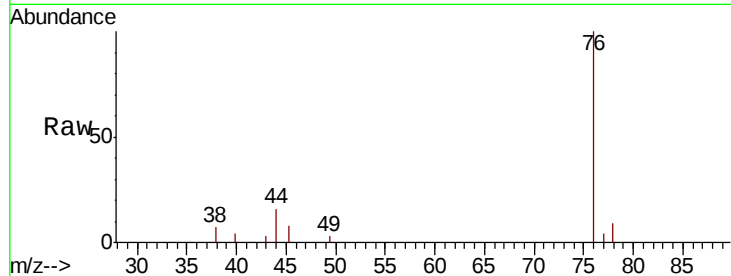
ClientSampleId :

Tot Ion: 76 Resp: 8096

Ion Ratio Lower Upper

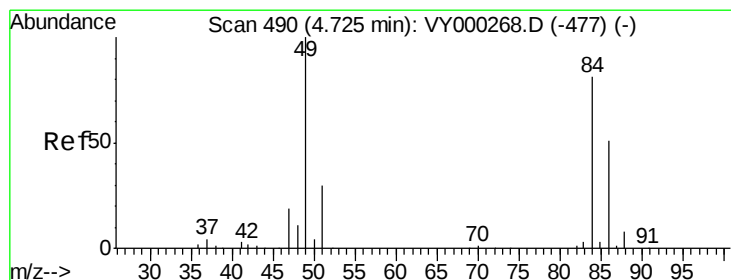
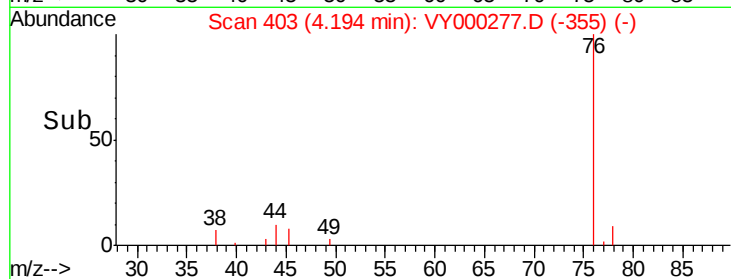
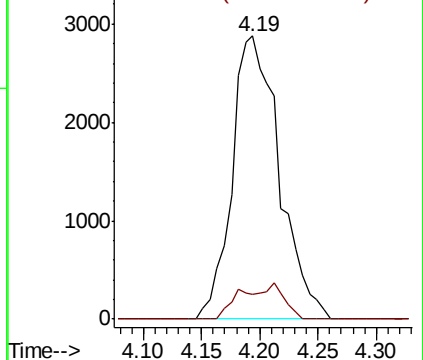
76 100

78 9.0 7.0 10.4



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#20

Methylene Chloride

Concen: Below Cal

RT: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Tgt Ion: 84 Resp: 11157

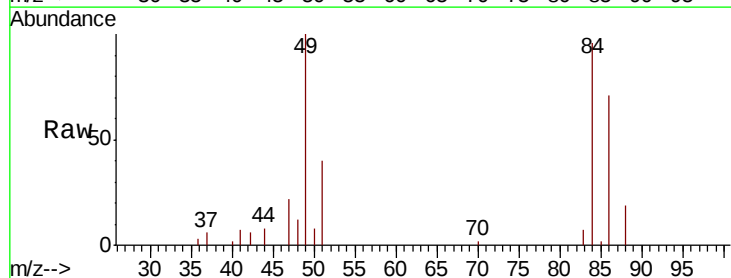
Ion Ratio Lower Upper

84 100

49 104.4 99.0 148.4

51 41.4 29.3 43.9

86 74.2 50.2 75.4

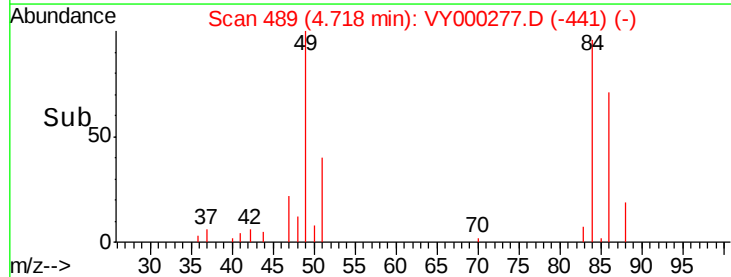
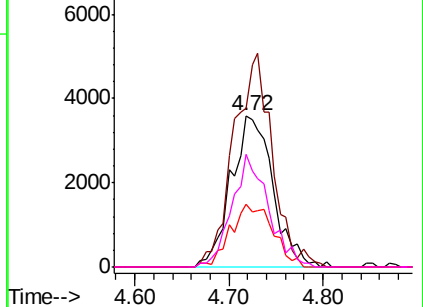


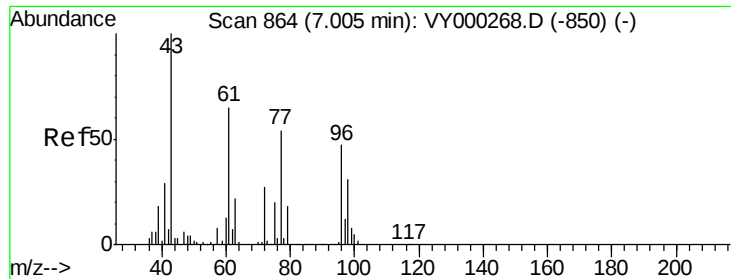
Abundance Ion 83.90 (83.60 to 84.60): VY0

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: 5.196 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

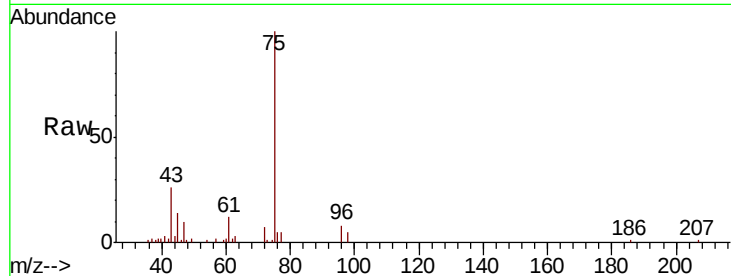
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 5537

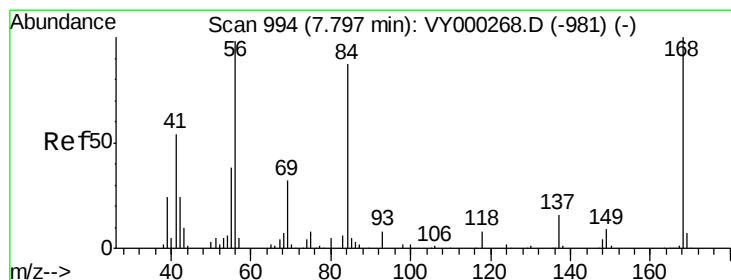
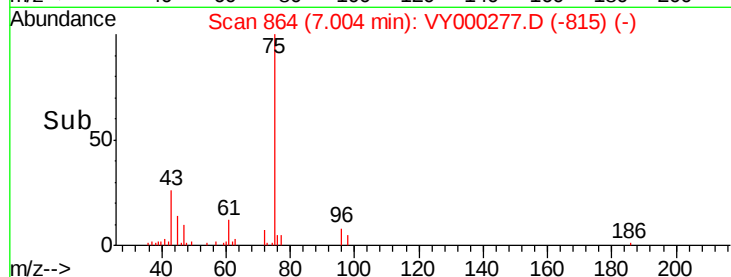
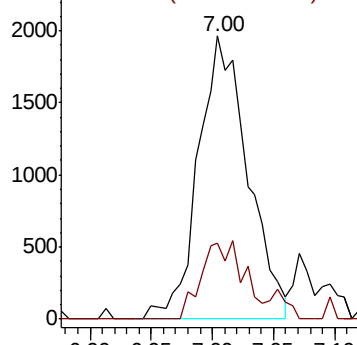
Ion Ratio Lower Upper

43 100

72 26.7 21.4 32.2



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



#31

Cyclohexane

Concen: 1.210 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

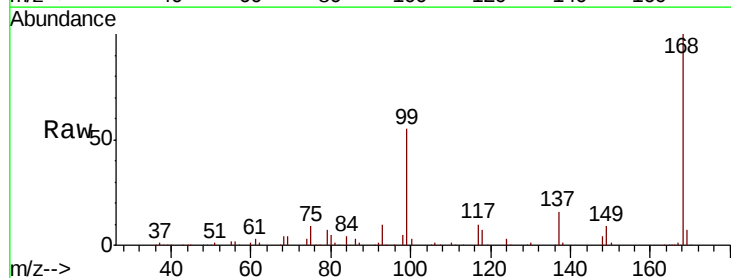
Tgt Ion: 56 Resp: 5406

Ion Ratio Lower Upper

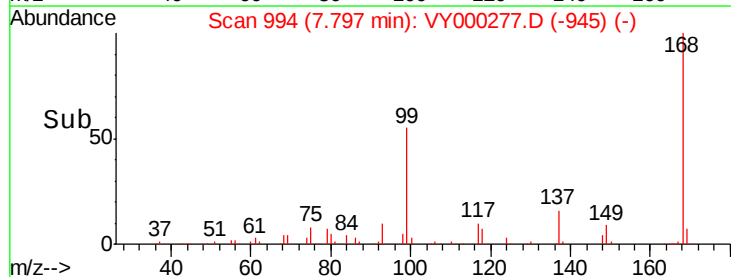
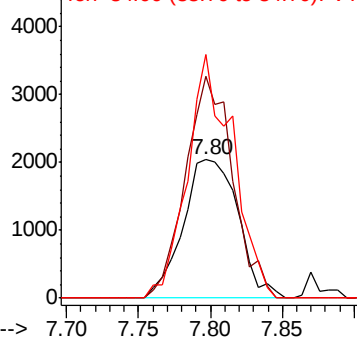
56 100

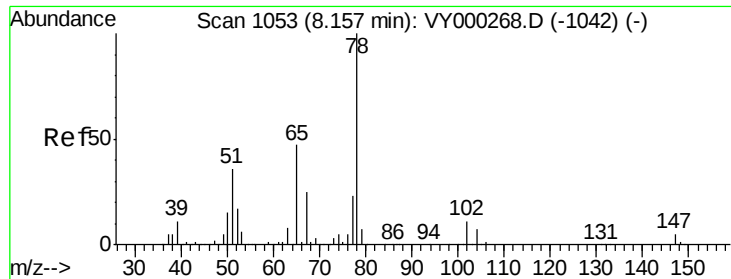
69 160.2 26.3 39.5#

84 176.0 70.8 106.2#



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: 53.384 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

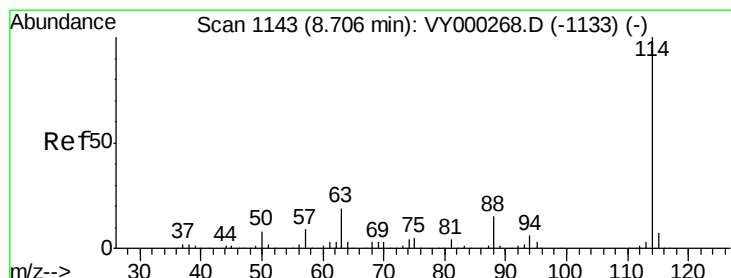
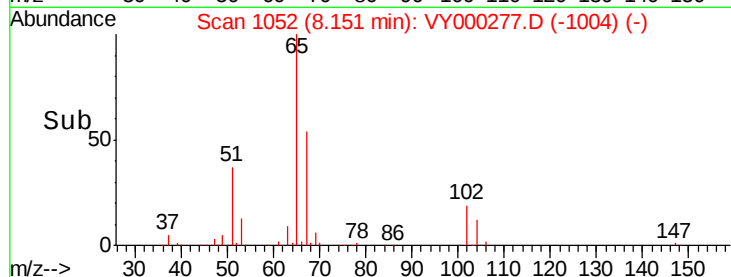
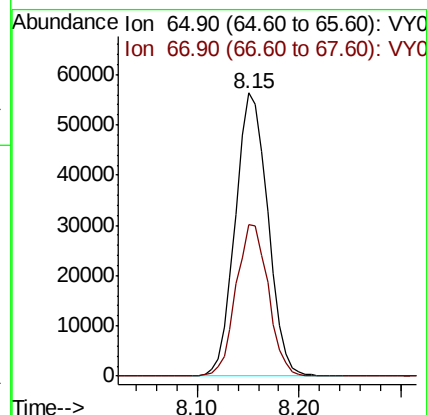
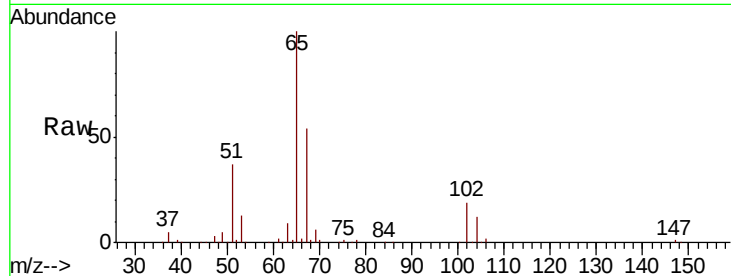
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 65 Resp: 124707

Ion Ratio Lower Upper

65 100

67 53.0 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

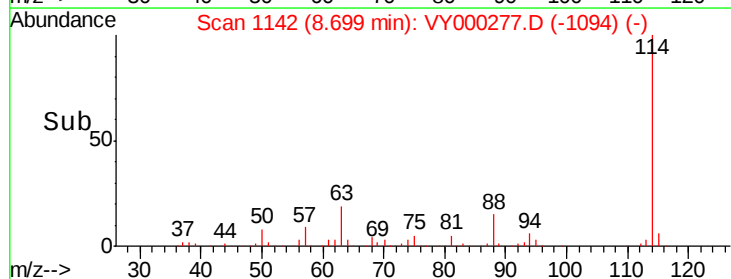
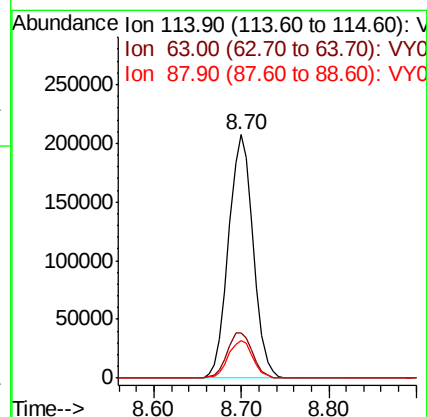
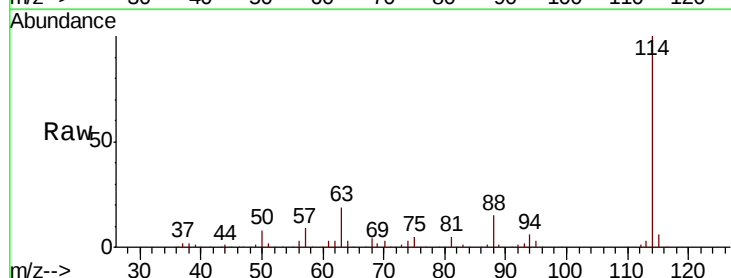
Tgt Ion: 114 Resp: 405298

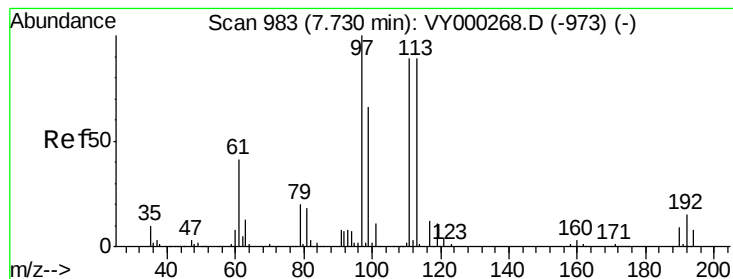
Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.2

88 15.2 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.363 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Instrument :

MSVOA_Y

ClientSampleId :

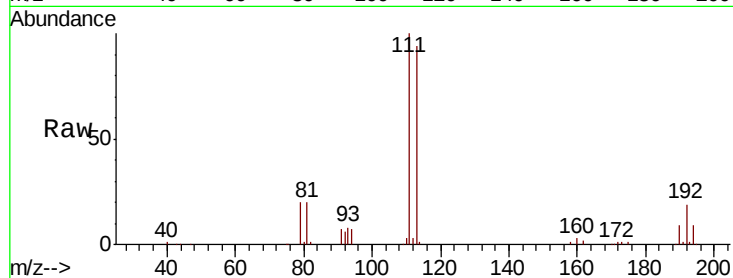
Tot Ion:113 Resp: 118237

Ion Ratio Lower Upper

113 100

111 105.9 81.6 122.4

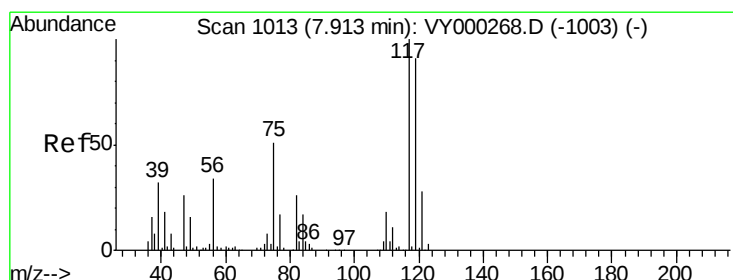
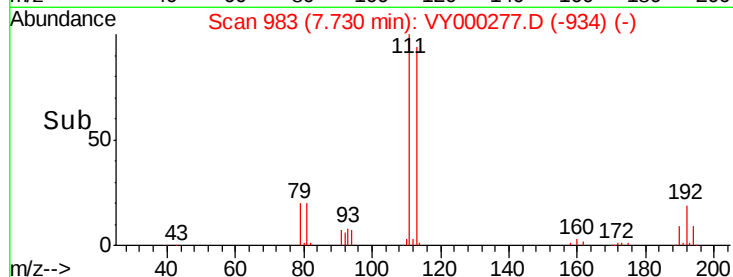
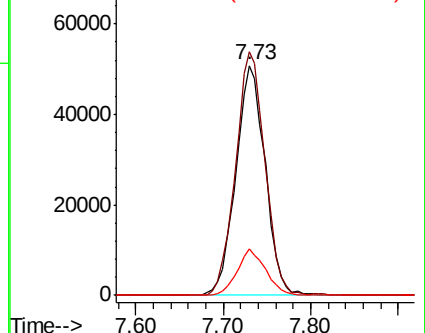
192 19.4 15.3 22.9



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



#38

Carbon Tetrachloride

Concen: 5.572 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.11 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

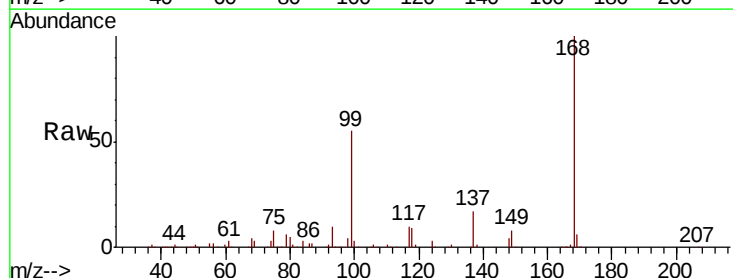
Tgt Ion:117 Resp: 21408

Ion Ratio Lower Upper

117 100

119 6.0 72.8 109.2#

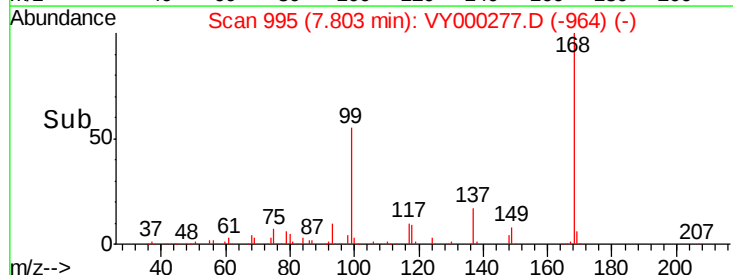
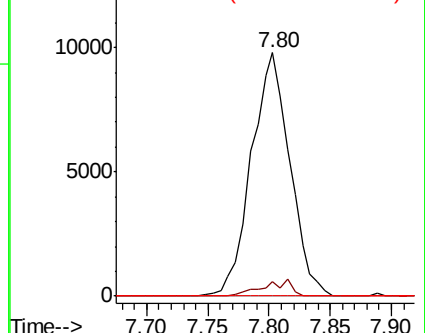
121 0.0 22.2 33.2#

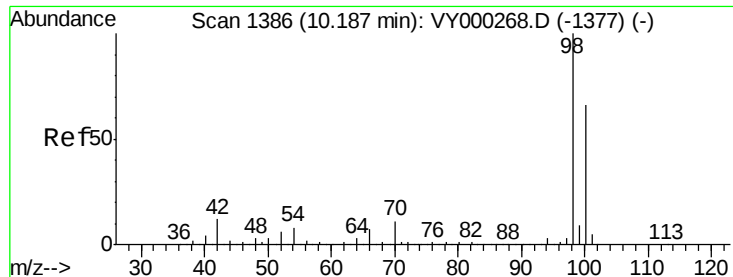


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 47.462 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Instrument :

MSVOA_Y

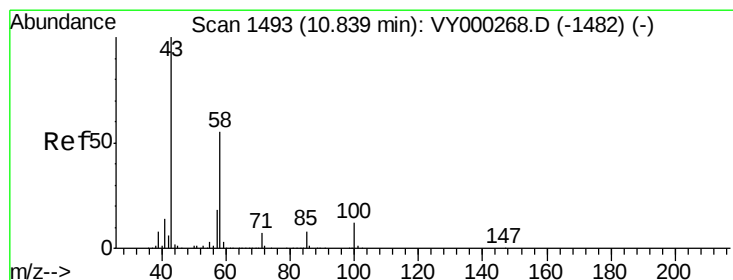
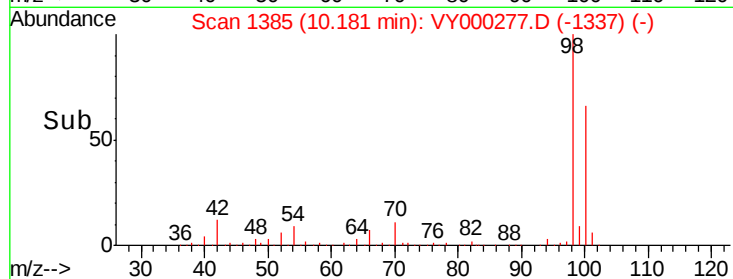
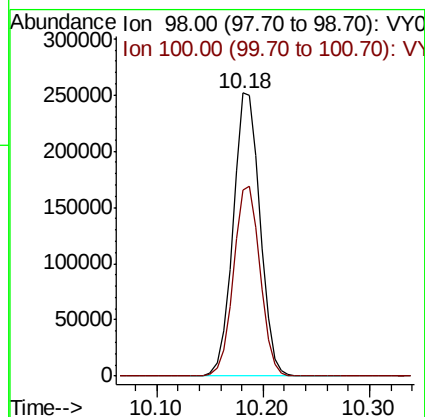
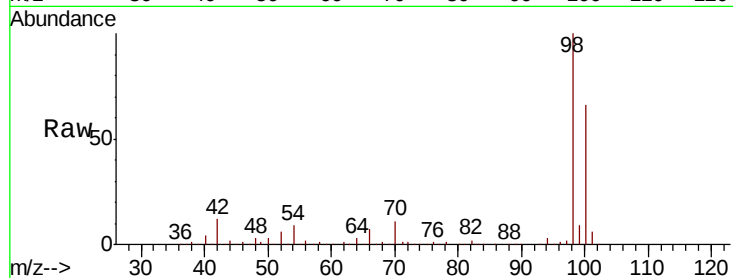
ClientSampleId :

Tot Ion: 98 Resp: 446355

Ion Ratio Lower Upper

98 100

100 66.1 52.8 79.2



#59

2-Hexanone

Concen: 1.186 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VY000277.D

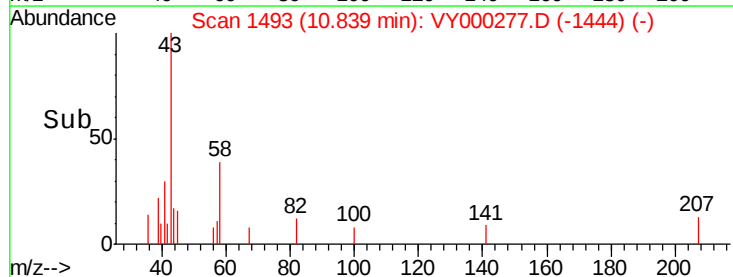
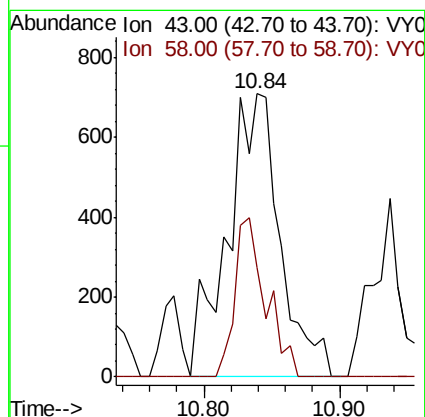
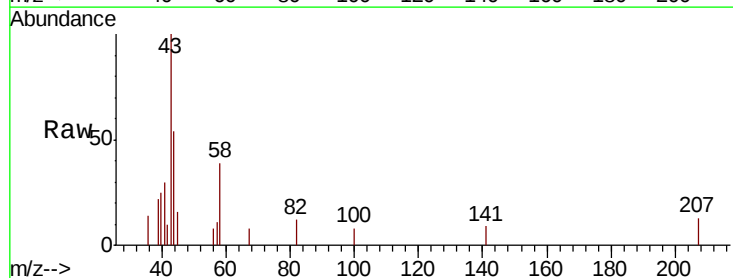
Acq: 11 Oct 2019 17:48

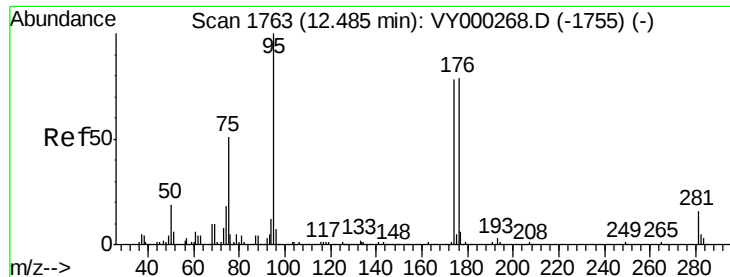
Tgt Ion: 43 Resp: 1919

Ion Ratio Lower Upper

43 100

58 33.2 27.7 83.1

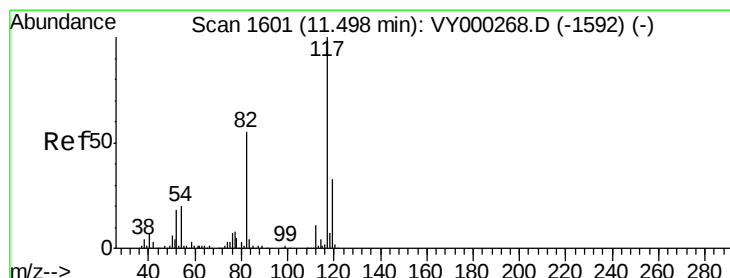
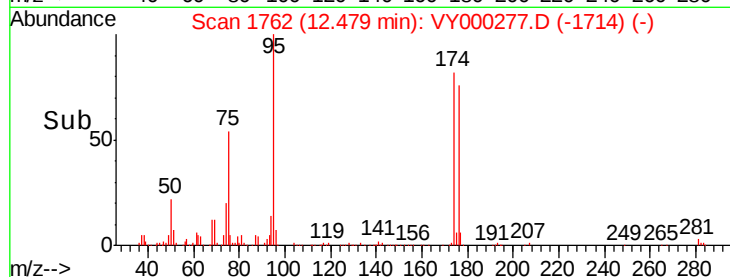
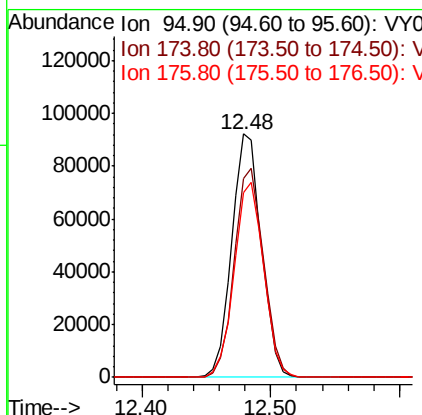
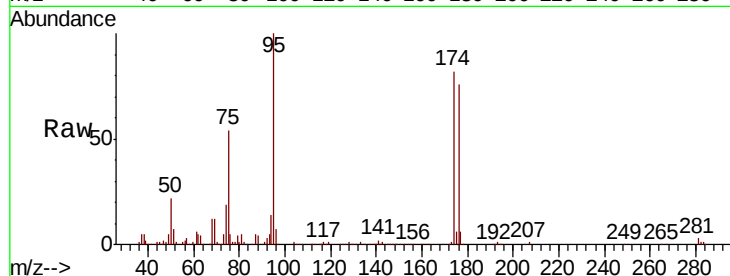




#62
4-Bromofluorobenzene
Concen: 41.370 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY000277.D
Acq: 11 Oct 2019 17:48

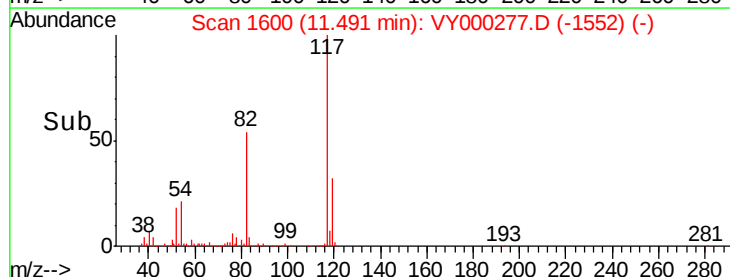
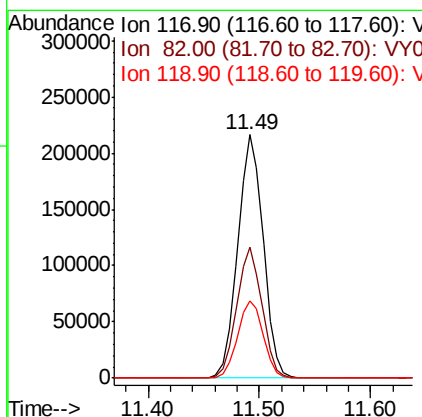
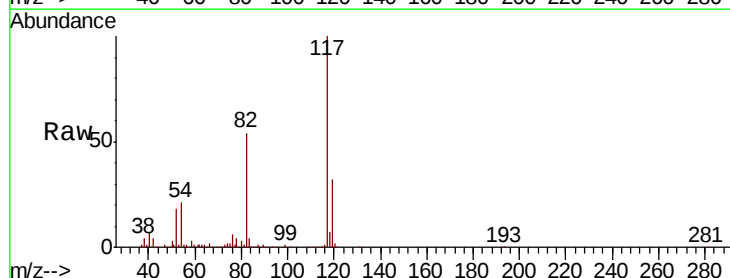
Instrument :
MSVOA_Y
ClientSampleId :

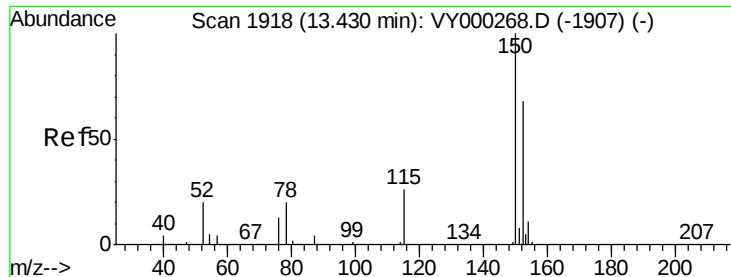
Tot Ion: 95 Resp: 147809
Ion Ratio Lower Upper
95 100
174 84.6 0.0 159.6
176 79.3 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000277.D
Acq: 11 Oct 2019 17:48

Tgt Ion: 117 Resp: 341065
Ion Ratio Lower Upper
117 100
82 53.7 43.7 65.5
119 31.5 26.6 39.8



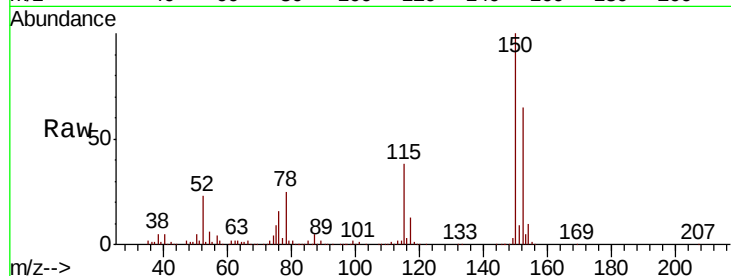


#72

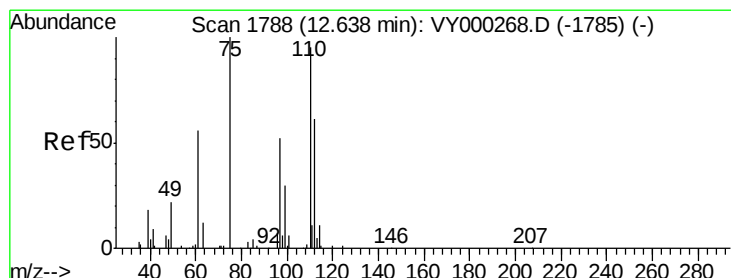
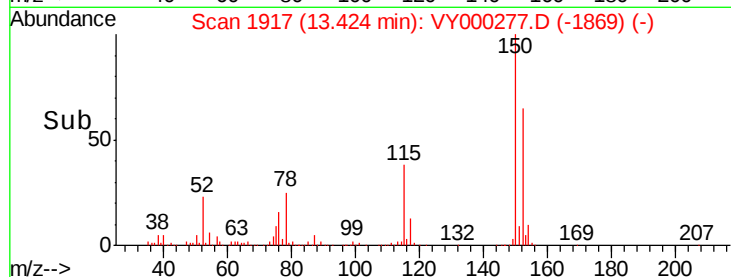
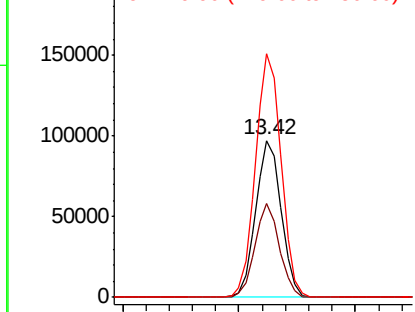
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000277.D
Acq: 11 Oct 2019 17:48

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:152 Resp: 148793
Ion Ratio Lower Upper
152 100
115 57.8 29.3 88.0
150 156.0 0.0 348.4



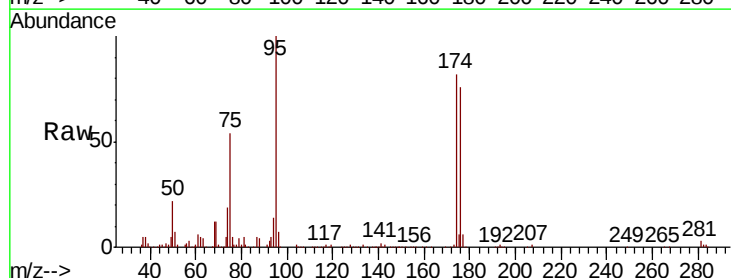
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



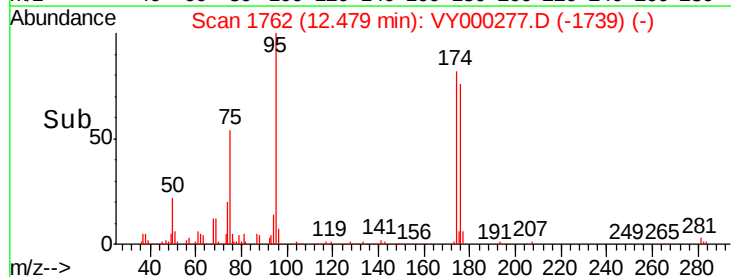
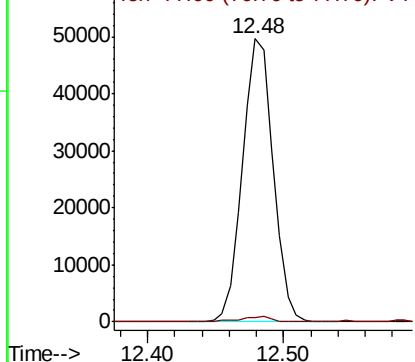
#76

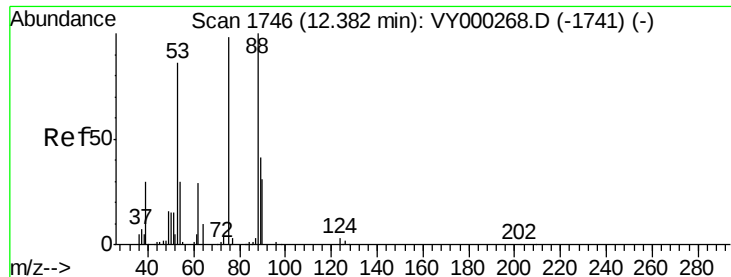
1,2,3-Trichloropropane
Concen: 42.760 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.16 min
Lab File: VY000277.D
Acq: 11 Oct 2019 17:48

Tgt Ion: 75 Resp: 78236
Ion Ratio Lower Upper
75 100
77 1.9 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: 93.558 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Instrument :

MSVOA_Y

ClientSampleId :

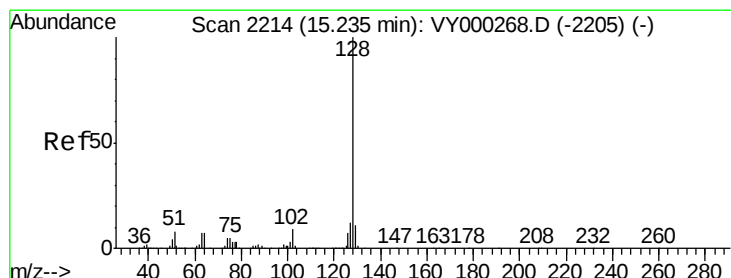
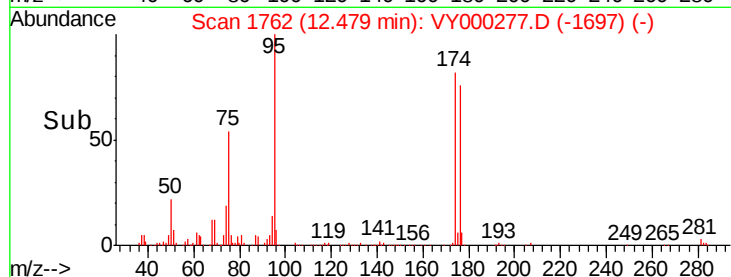
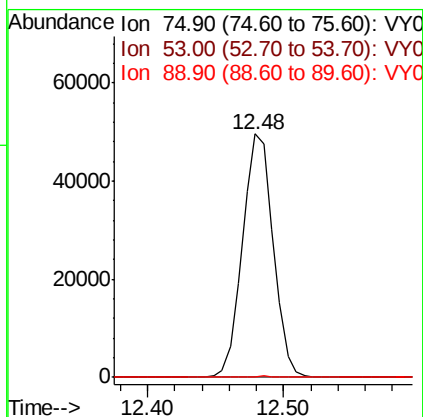
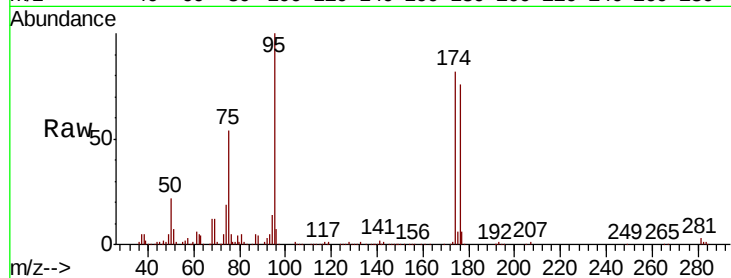
Tot Ion: 75 Resp: 78236

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

89 0.1 35.1 52.7#



#95

Naphthalene

Concen: 13.795 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VY000277.D

Acq: 11 Oct 2019 17:48

Tgt Ion: 128 Resp: 98666

Ion Ratio Lower Upper

128 100

127 12.5 9.6 14.4

129 10.8 8.7 13.1

