

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY091919\
 Data File : VY000081.D
 Acq On : 19 Sep 2019 16:42
 Operator : SY/MD
 Sample : K4878-11
 Misc : 5.51g/5.00ml/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CSA-2-8-2

Quant Time: Sep 20 01:56:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	104526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	208266	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	170962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	60017	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	60218	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
35) Dibromofluoromethane	7.73	113	57673	45.74	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.48%	
50) Toluene-d8	10.18	98	239186	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.48	95	74367	40.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.88%	

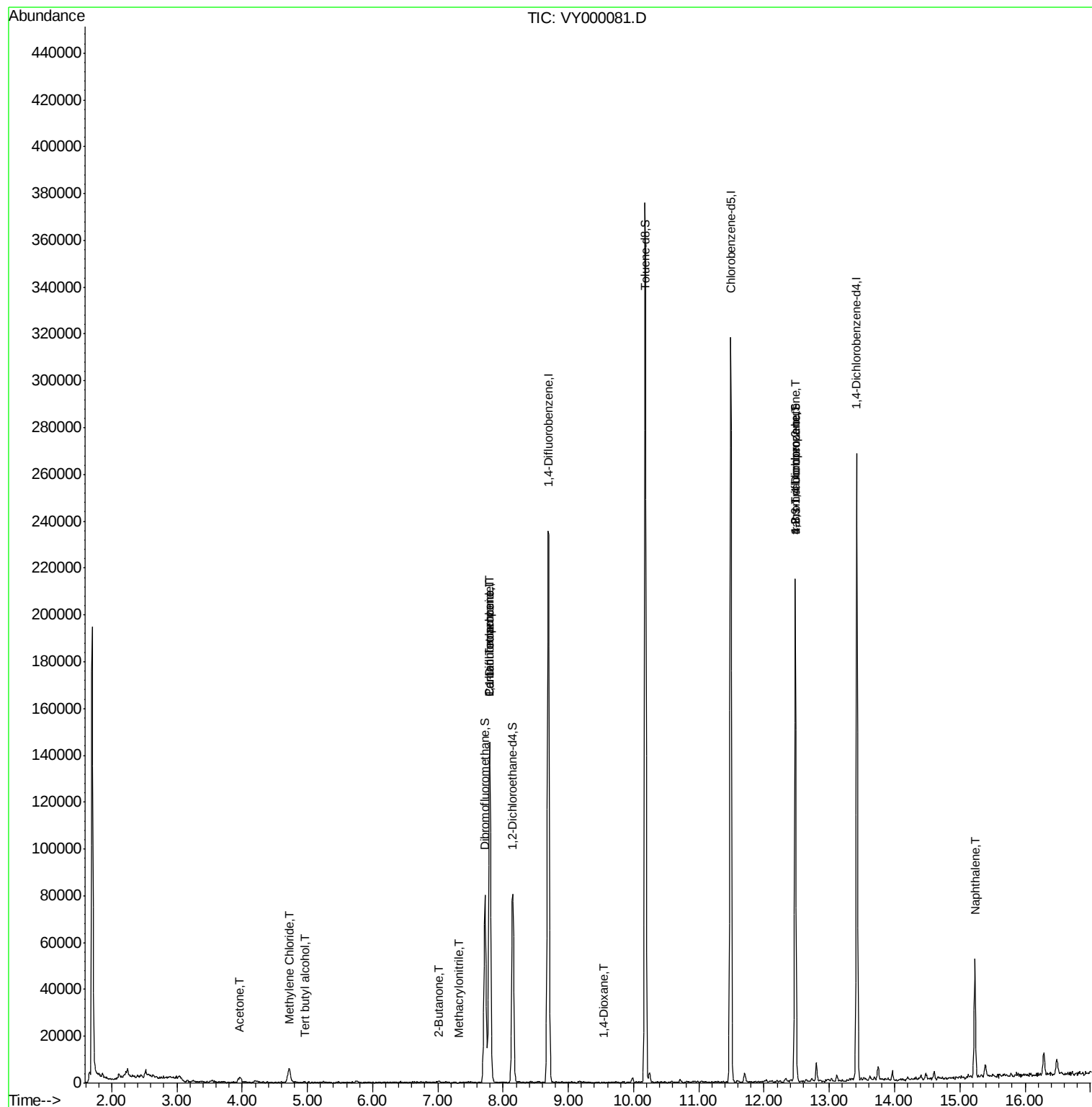
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	876	Below Cal	#	81
5) Bromomethane	2.55	94	34	Below Cal	#	6
11) Tert butyl alcohol	4.96	59	215	1.508	ug/l #	64
13) Acrolein	3.64	56	34	Below Cal	#	13
16) Acetone	3.96	43	4179	14.925	ug/l #	73
17) Carbon Disulfide	4.20	76	1044	Below Cal	#	77
20) Methylene Chloride	4.72	84	4553	3.457	ug/l	92
25) 2-Butanone	7.00	43	1139	2.246	ug/l #	44
31) Cyclohexane	7.79	56	2679	Below Cal	#	1
36) 1,1-Dichloropropene	7.79	75	9302	5.973	ug/l #	48
38) Carbon Tetrachloride	7.80	117	11426	7.774	ug/l #	16
41) Methacrylonitrile	7.32	41	19	4.330	ug/l #	1
49) 1,4-Dioxane	9.55	88	25	1.769	ug/l #	1
76) 1,2,3-Trichloropropane	12.48	75	37302	44.174	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	37302	84.958	ug/l #	19
95) Naphthalene	15.23	128	38976	12.088	ug/l	99

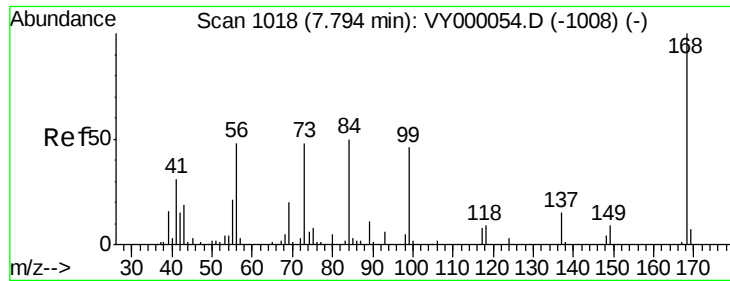
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampled :

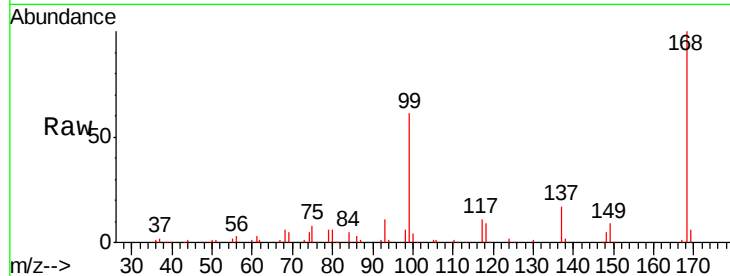
CSA-2-8-2

Tgt Ion:168 Resp: 104526

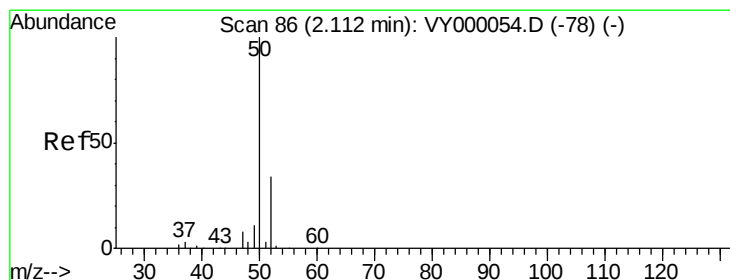
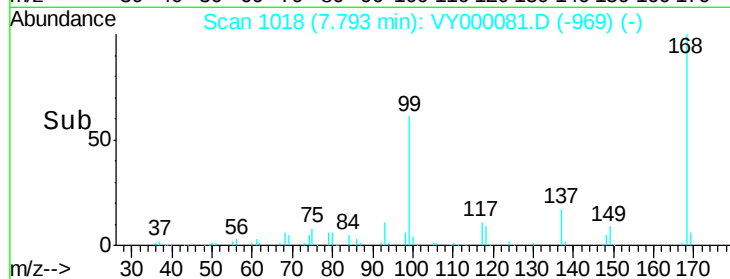
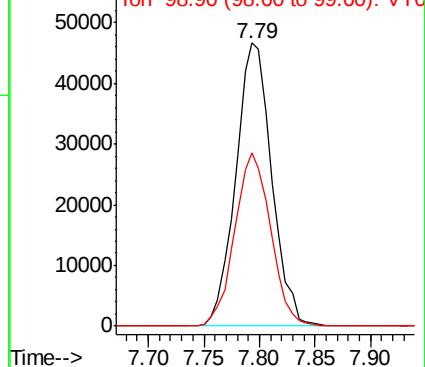
Ion Ratio Lower Upper

168 100

99 61.1 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY000081.D

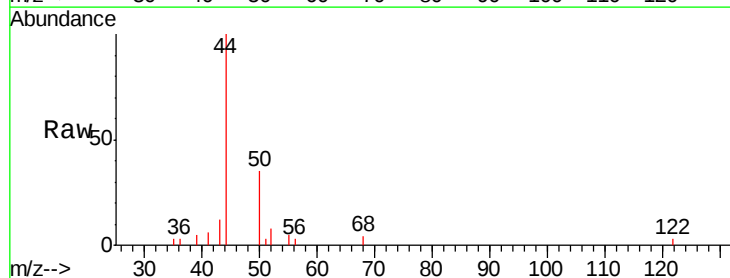
Acq: 19 Sep 2019 16:42

Tgt Ion: 50 Resp: 876

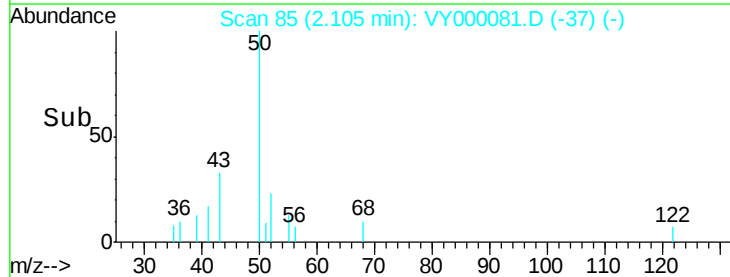
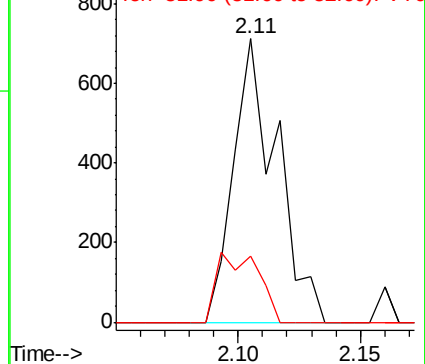
Ion Ratio Lower Upper

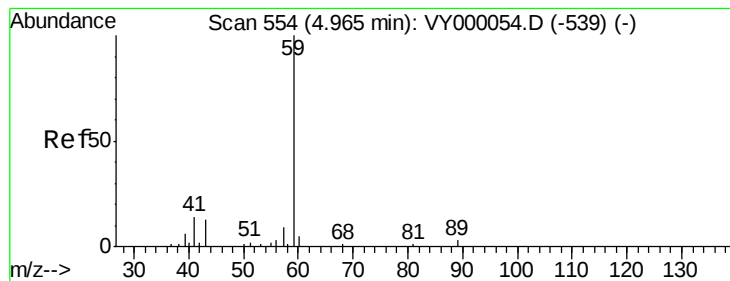
50 100

52 23.2 27.3 40.9#



Abundance Ion 49.90 (49.60 to 50.60): VY000054.D (-78) (-)



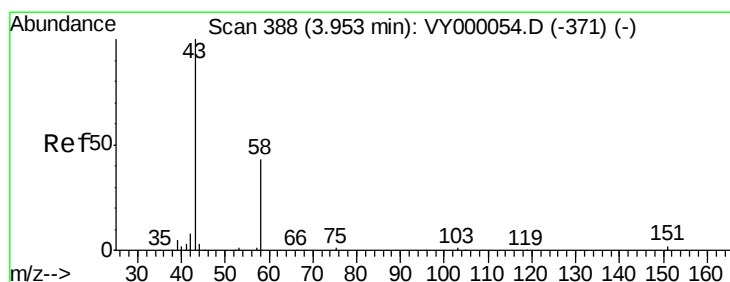
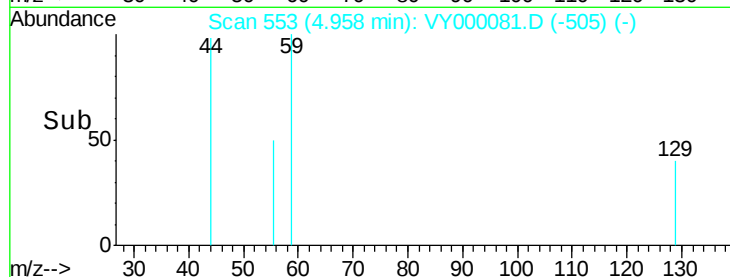
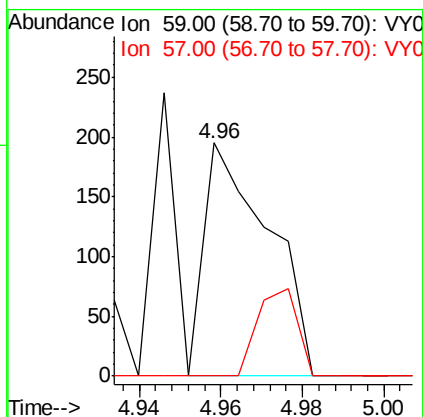
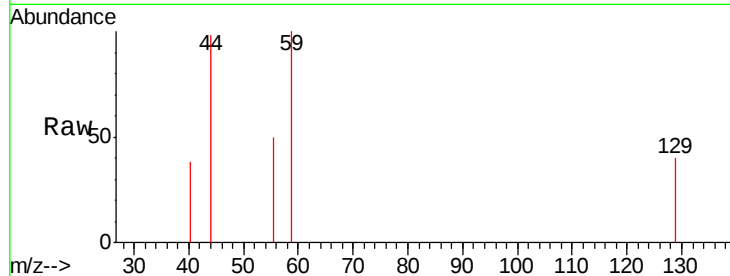


#11

Tert butyl alcohol
 Concen: 1.508 ug/l
 RT: 4.96 min Scan# 553
 Delta R.T. -0.01 min
 Lab File: VY000081.D
 Acq: 19 Sep 2019 16:42

Instrument :
 MSVOA_Y
 ClientSampled :
 CSA-2-8-2

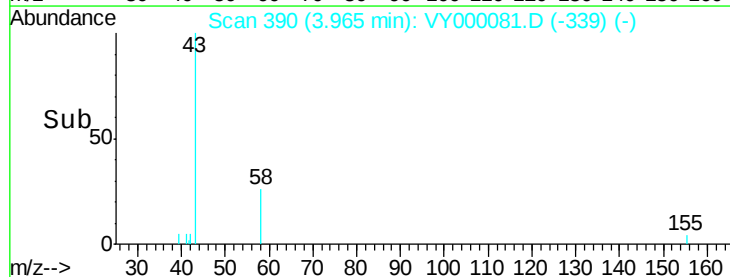
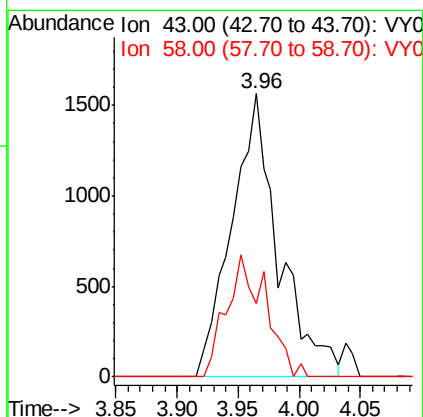
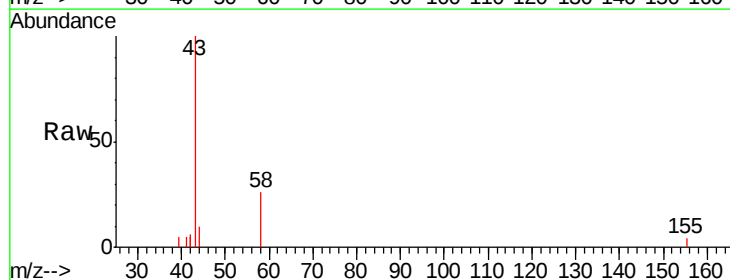
Tgt Ion: 59 Resp: 215
 Ion Ratio Lower Upper
 59 100
 57 23.3 8.0 12.0#

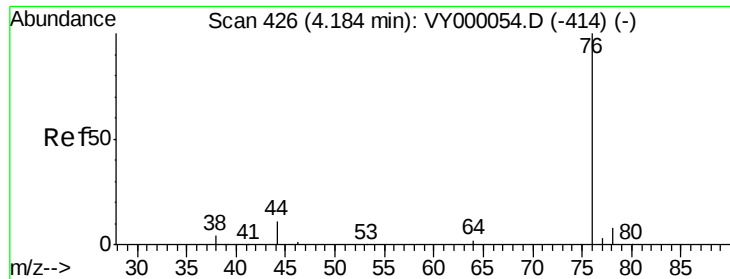


#16

Acetone
 Concen: 14.925 ug/l
 RT: 3.96 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: VY000081.D
 Acq: 19 Sep 2019 16:42

Tgt Ion: 43 Resp: 4179
 Ion Ratio Lower Upper
 43 100
 58 25.8 34.5 51.7#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.20 min Scan# 428

Delta R.T. 0.01 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampleId :

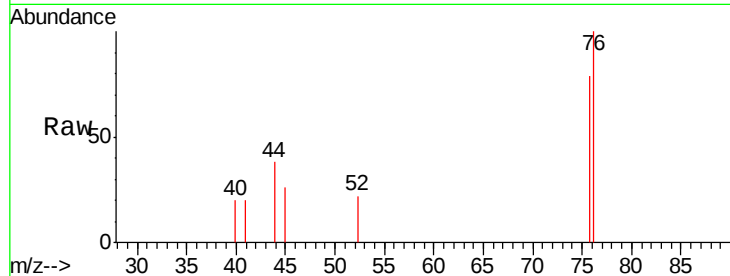
CSA-2-8-2

Tgt Ion: 76 Resp: 1044

Ion Ratio Lower Upper

76 100

78 0.0 6.6 9.8#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

4.20

800

600

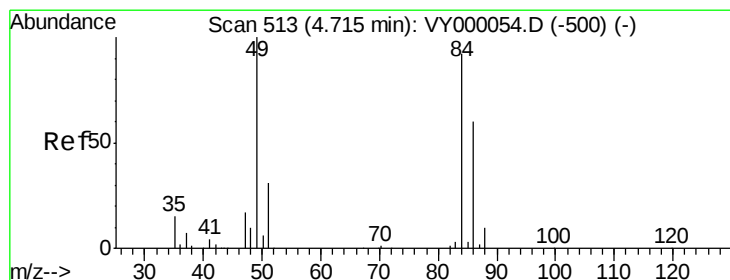
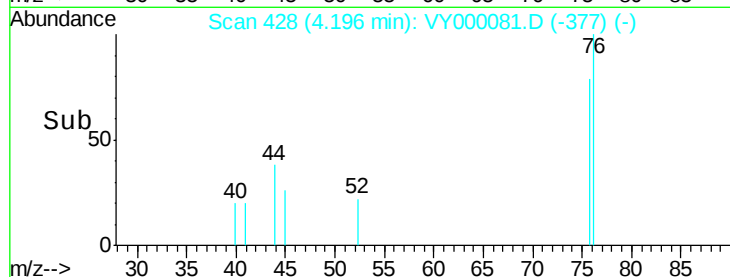
400

200

0

4.15 4.20 4.25

Time-->



#20

Methylene Chloride

Concen: 3.457 ug/l

RT: 4.72 min Scan# 514

Delta R.T. 0.01 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Tgt Ion: 84 Resp: 4553

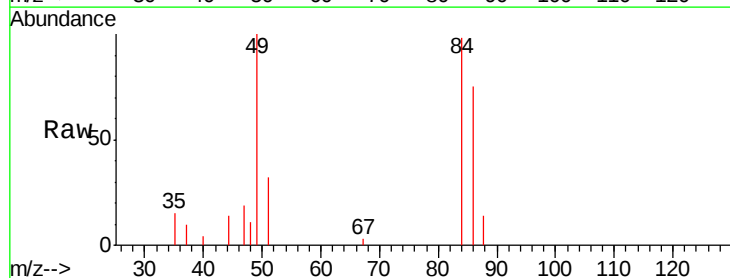
Ion Ratio Lower Upper

84 100

49 101.6 87.4 131.0

51 32.8 27.2 40.8

86 76.1 52.8 79.2



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

3000

2500

2000

1500

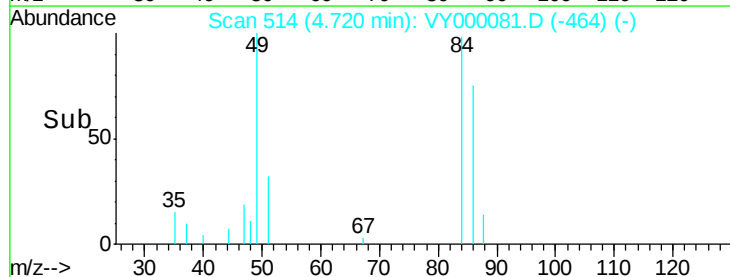
1000

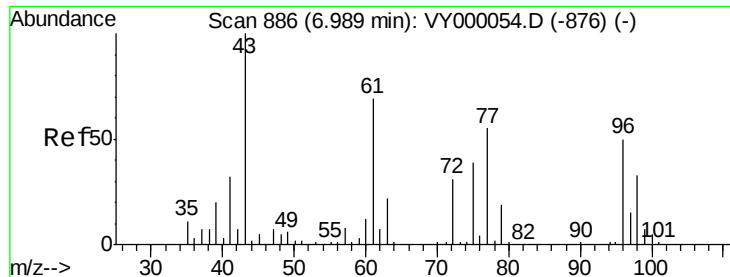
500

0

4.60 4.65 4.70 4.75 4.80

Time-->





#25

2-Butanone

Concen: 2.246 ug/l

RT: 7.00 min Scan# 888

Delta R.T. 0.01 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampleId :

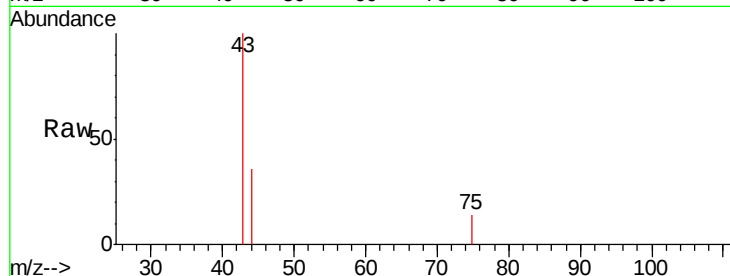
CSA-2-8-2

Tgt Ion: 43 Resp: 1139

Ion Ratio Lower Upper

43 100

72 0.0 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.00

400

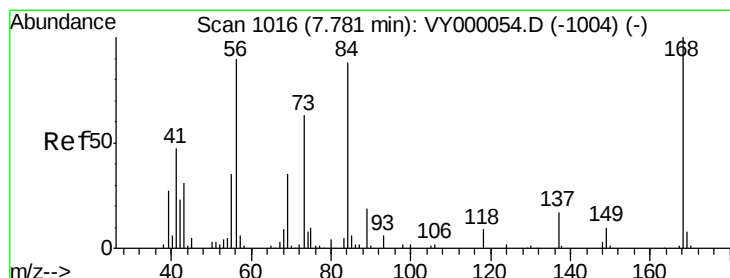
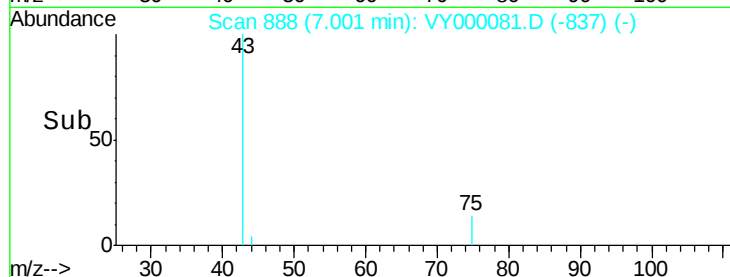
300

200

100

0

Time--> 6.90 6.95 7.00 7.05 7.10



#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

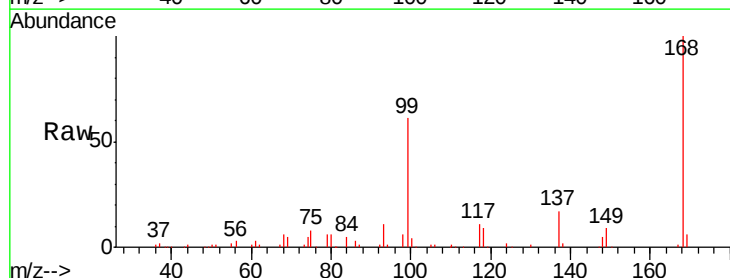
Tgt Ion: 56 Resp: 2679

Ion Ratio Lower Upper

56 100

69 162.5 30.9 46.3#

84 172.7 78.5 117.7#



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

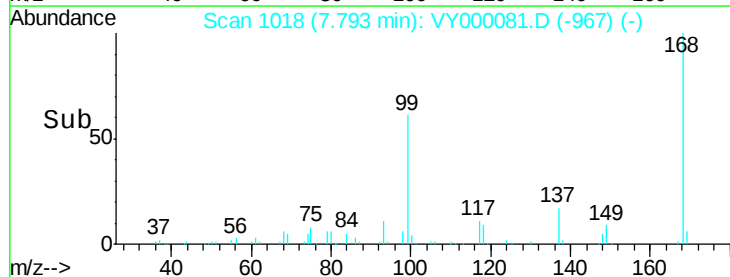
3000

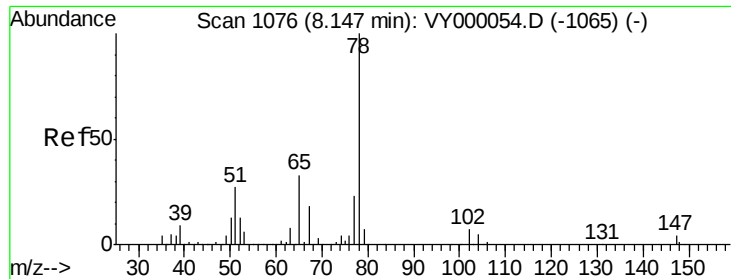
2000

1000

0

Time--> 7.70 7.75 7.80 7.85

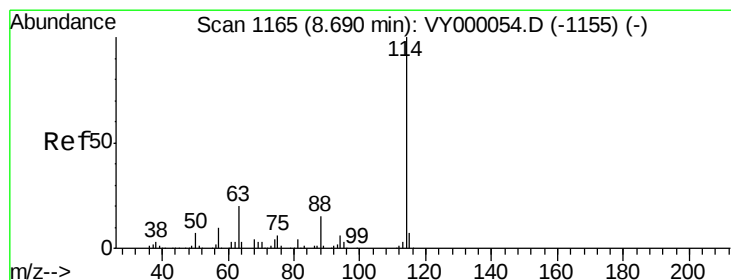
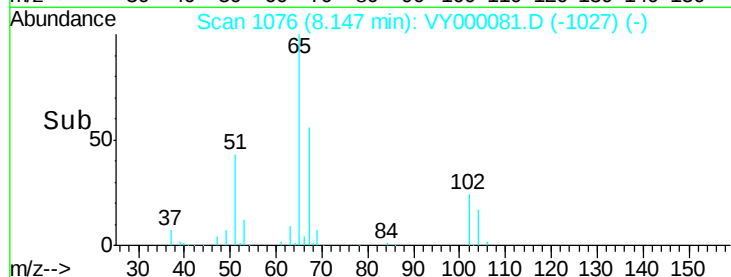
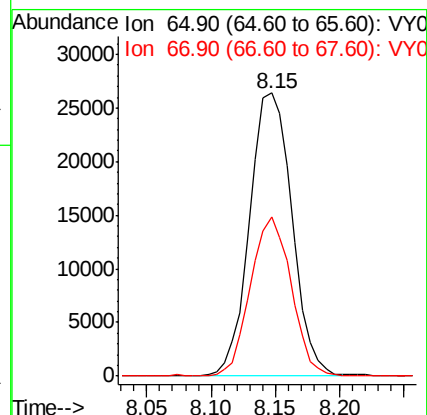
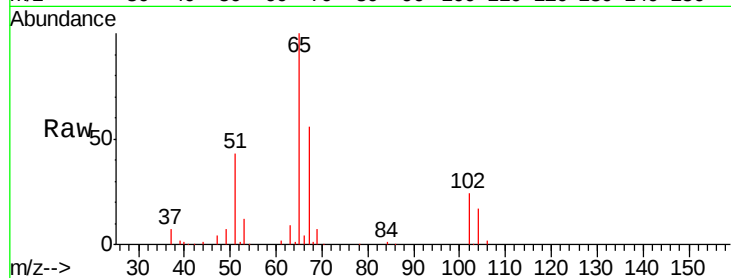




#33
 1,2-Dichloroethane-d4
 Concen: 50.074 ug/l
 RT: 8.15 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VY000081.D
 Acq: 19 Sep 2019 16:42

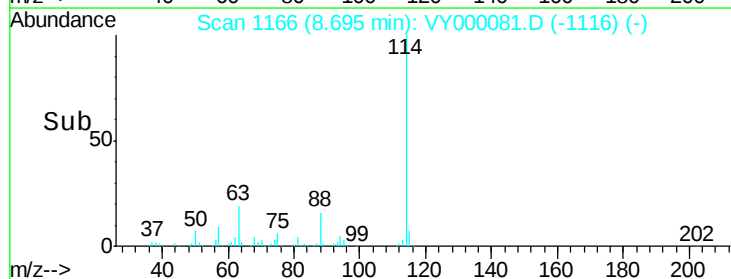
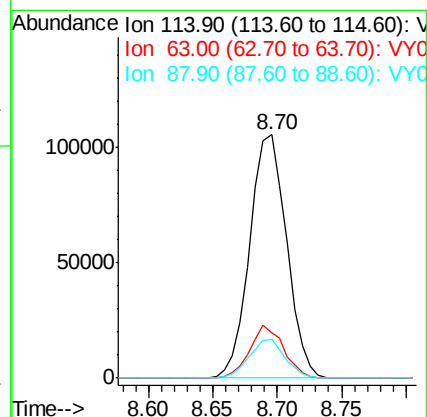
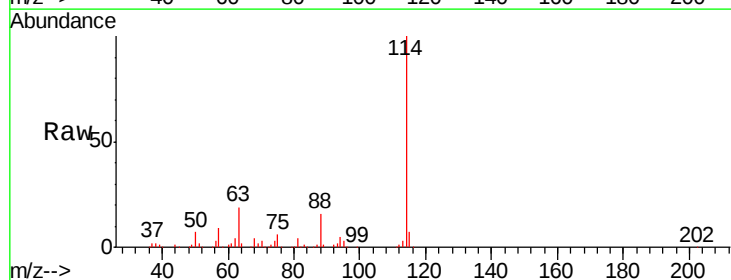
Instrument :
 MSVOA_Y
 ClientSampleId :
 CSA-2-8-2

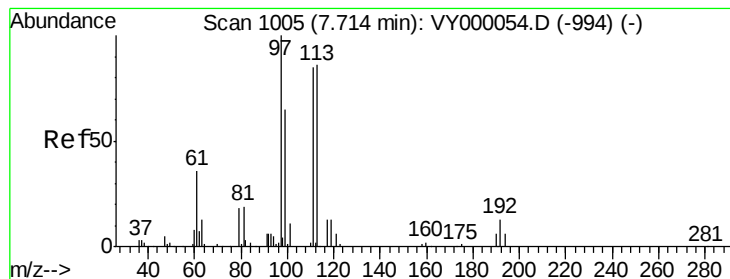
Tgt Ion: 65 Resp: 60218
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VY000081.D
 Acq: 19 Sep 2019 16:42

Tgt Ion: 114 Resp: 208266
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.4
 88 16.2 0.0 30.2





#35

Dibromofluoromethane

Concen: 45.736 ug/l

RT: 7.73 min Scan# 1007

Delta R.T. 0.01 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-8-2

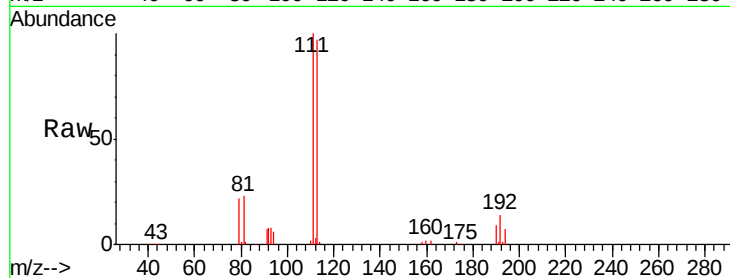
Tgt Ion:113 Resp: 57673

Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

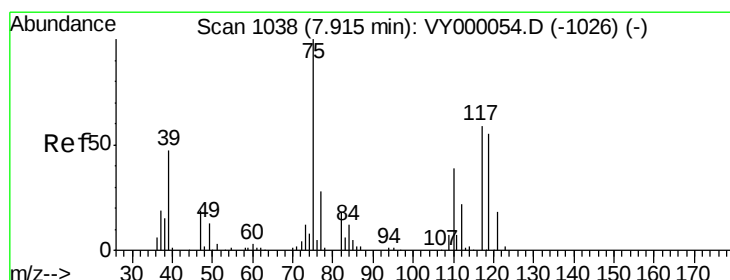
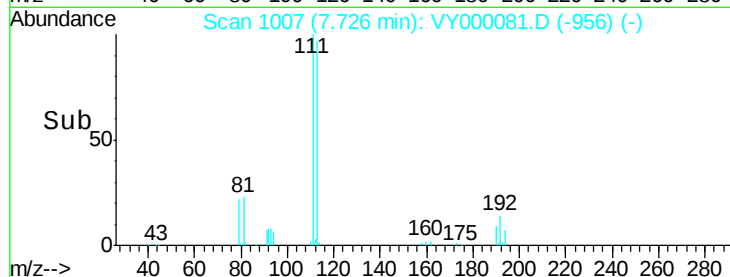
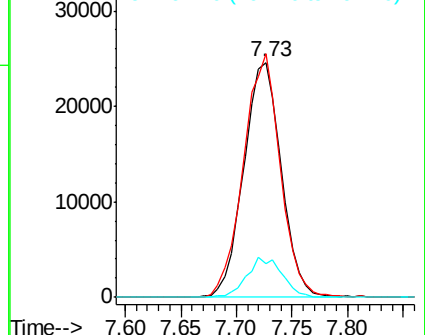
192 15.9 13.4 20.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.973 ug/l

RT: 7.79 min Scan# 1017

Delta R.T. -0.13 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

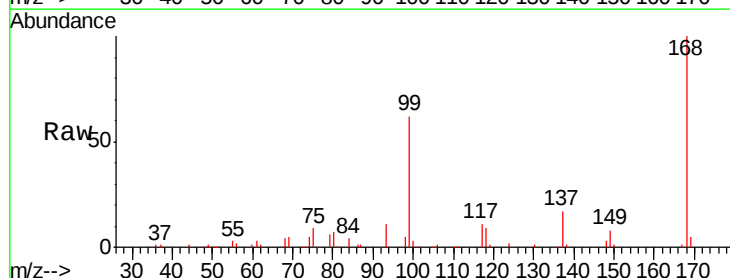
Tgt Ion: 75 Resp: 9302

Ion Ratio Lower Upper

75 100

110 8.9 19.6 58.7#

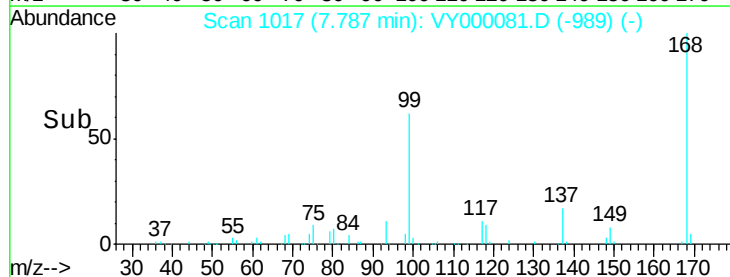
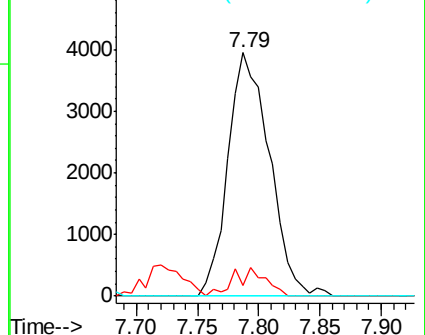
77 0.0 24.3 36.5#

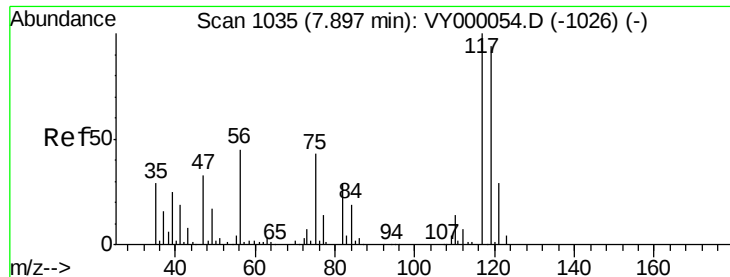


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

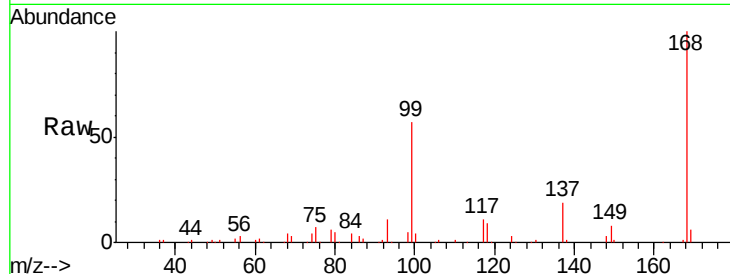




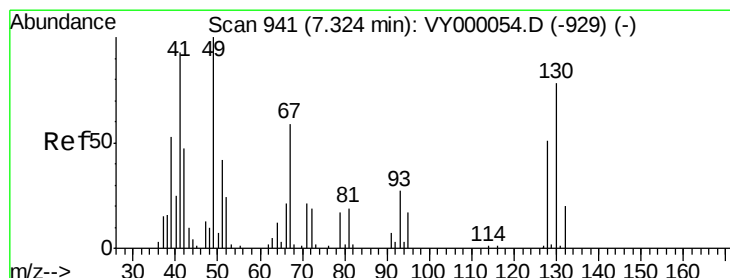
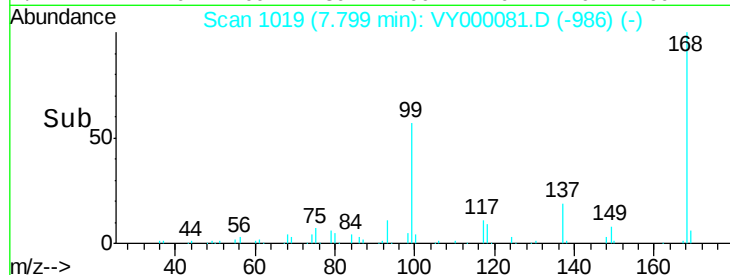
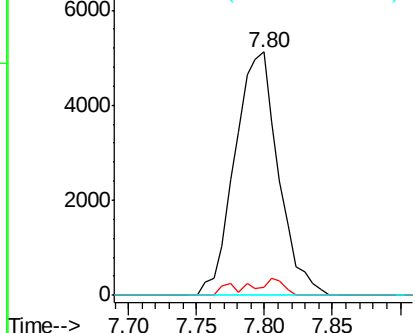
#38
Carbon Tetrachloride
Concen: 7.774 ug/l
RT: 7.80 min Scan# 1019
Delta R.T. -0.10 min
Lab File: VY000081.D
Acq: 19 Sep 2019 16:42

Instrument :
MSVOA_Y
ClientSampleId :
CSA-2-8-2

Tgt Ion: 117 Resp: 11426
Ion Ratio Lower Upper
117 100
119 3.4 75.0 112.6#
121 0.0 22.8 34.2#



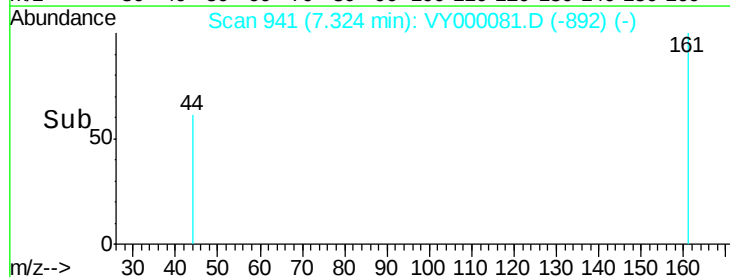
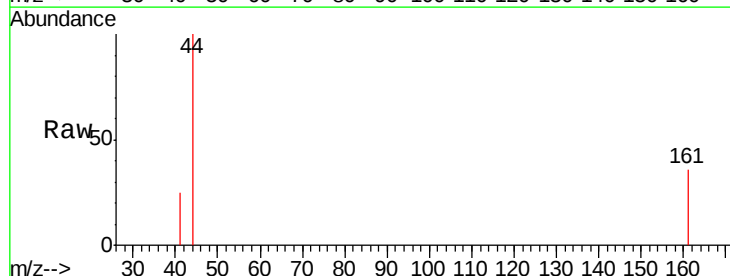
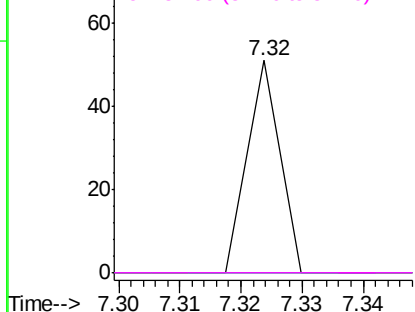
Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

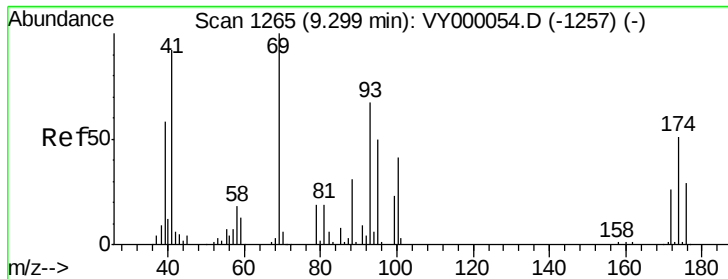


#41
Methacrylonitrile
Concen: 4.330 ug/l
RT: 7.32 min Scan# 941
Delta R.T. -0.00 min
Lab File: VY000081.D
Acq: 19 Sep 2019 16:42

Tgt Ion: 41 Resp: 19
Ion Ratio Lower Upper
41 100
39 0.0 91.8 137.6#
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





#49

1,4-Dioxane

Concen: 1.769 ug/l

RT: 9.55 min Scan# 1306

Delta R.T. 0.25 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-8-2

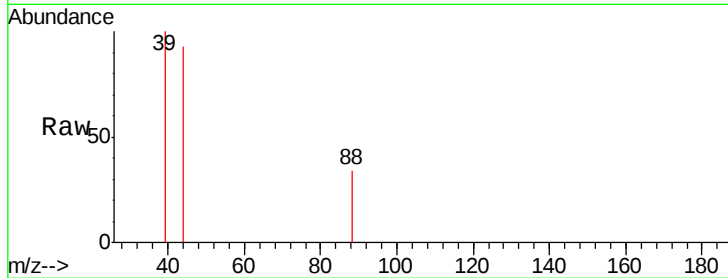
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 96.0 18.7 28.1#

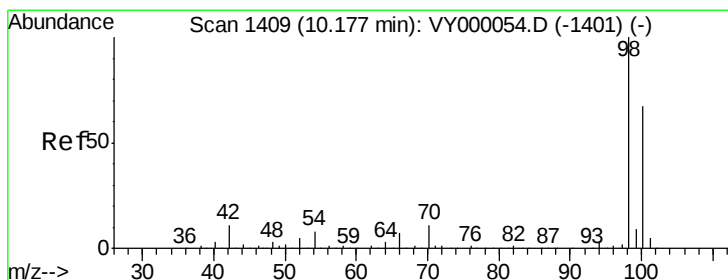
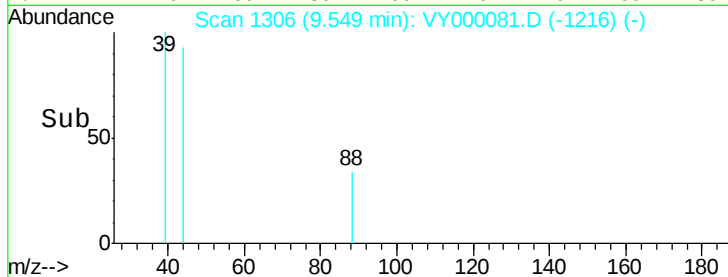
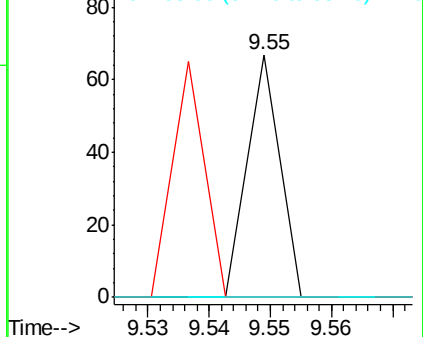
58 0.0 53.0 79.6#



Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#50

Toluene-d8

Concen: 48.293 ug/l

RT: 10.18 min Scan# 1409

Delta R.T. -0.00 min

Lab File: VY000081.D

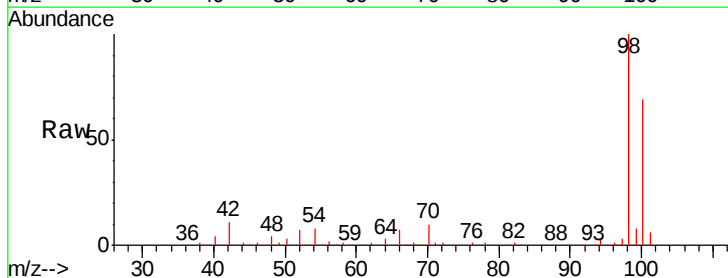
Acq: 19 Sep 2019 16:42

Tgt Ion: 98 Resp: 239186

Ion Ratio Lower Upper

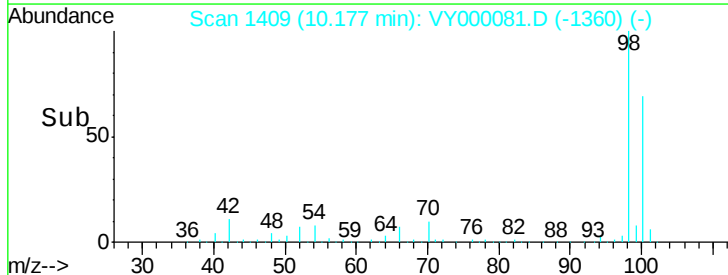
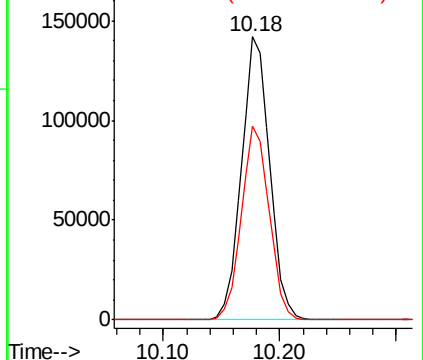
98 100

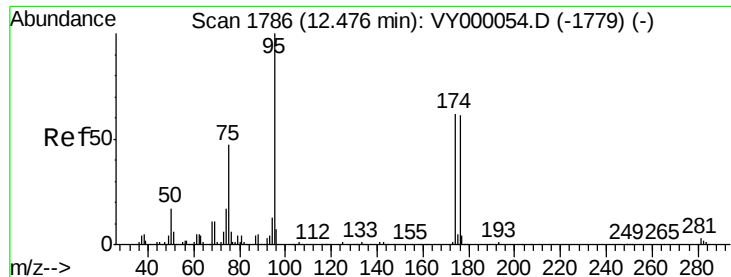
100 67.8 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

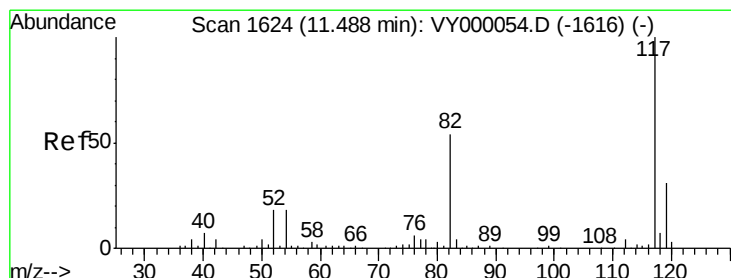
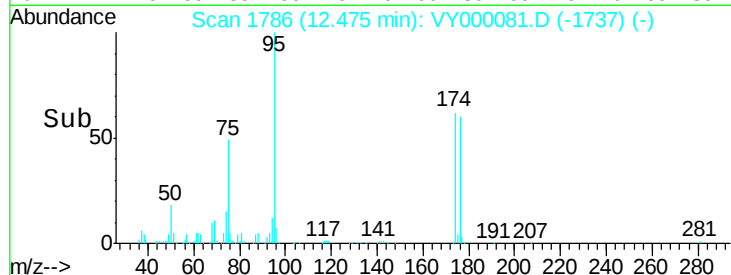
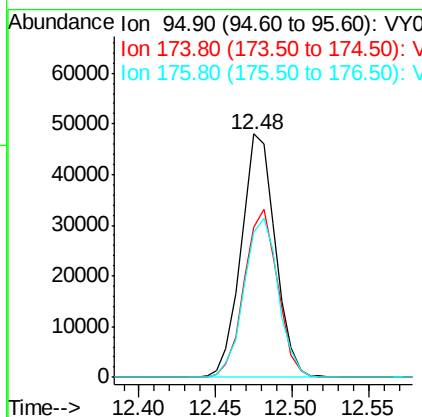
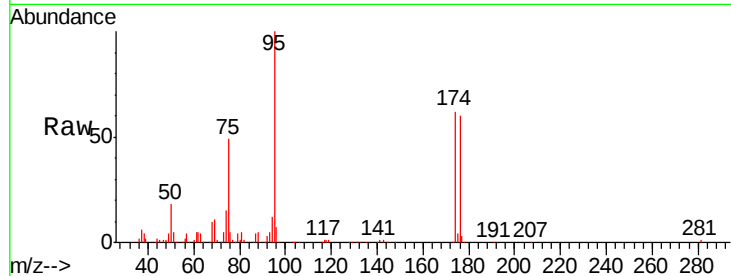




#62
4-Bromofluorobenzene
Concen: 40.442 ug/l
RT: 12.48 min Scan# 1786
Delta R.T. -0.00 min
Lab File: VY000081.D
Acq: 19 Sep 2019 16:42

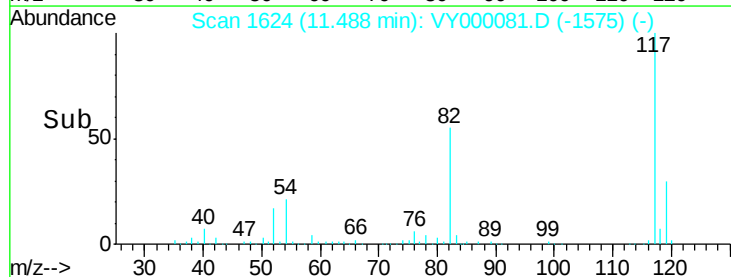
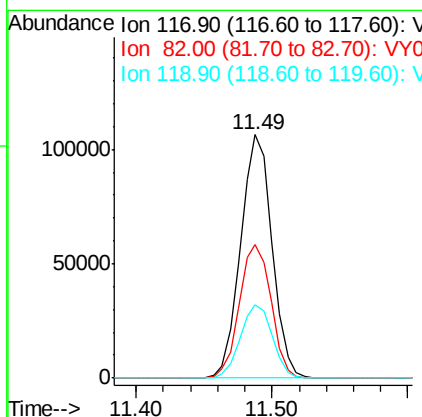
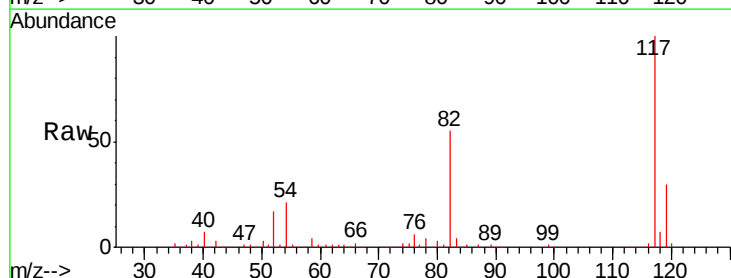
Instrument :
MSVOA_Y
ClientSampleId :
CSA-2-8-2

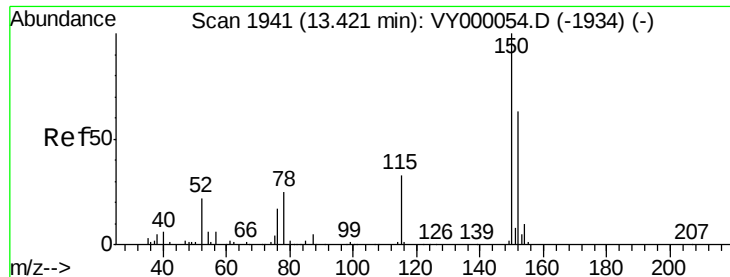
Tgt Ion: 95 Resp: 74367
Ion Ratio Lower Upper
95 100
174 67.7 0.0 137.2
176 65.6 0.0 135.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000081.D
Acq: 19 Sep 2019 16:42

Tgt Ion: 117 Resp: 170962
Ion Ratio Lower Upper
117 100
82 54.8 43.5 65.3
119 30.1 24.6 36.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-8-2

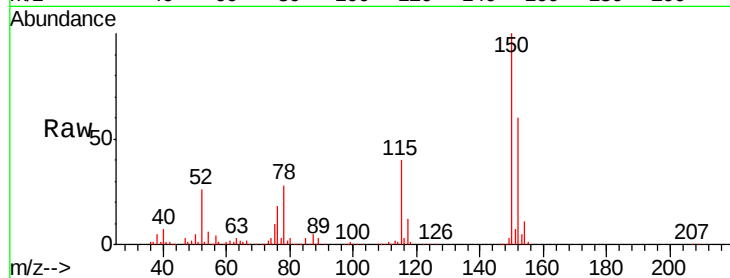
Tgt Ion:152 Resp: 60017

Ion Ratio Lower Upper

152 100

115 64.3 30.7 92.1

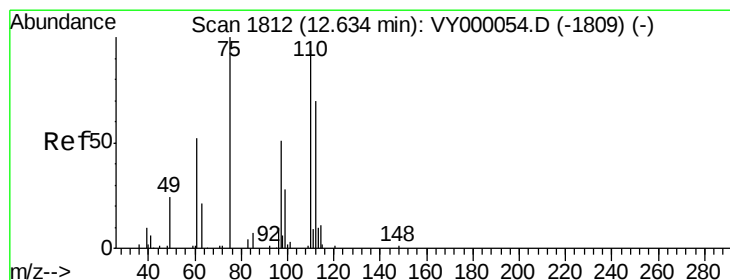
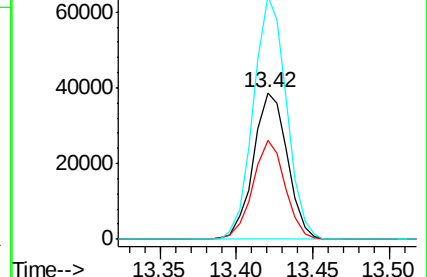
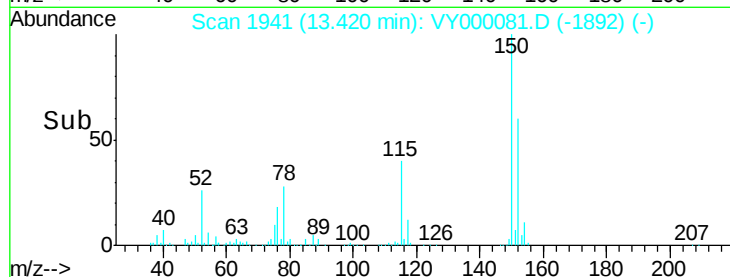
150 161.1 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 44.174 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. -0.16 min

Lab File: VY000081.D

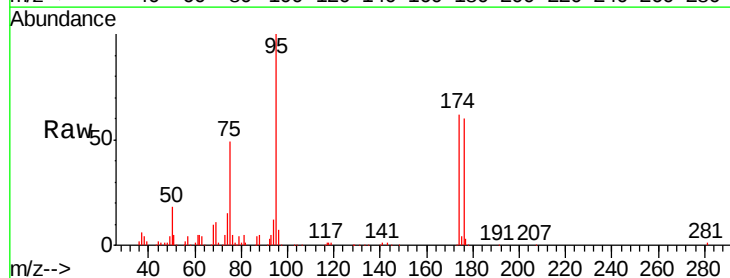
Acq: 19 Sep 2019 16:42

Tgt Ion: 75 Resp: 37302

Ion Ratio Lower Upper

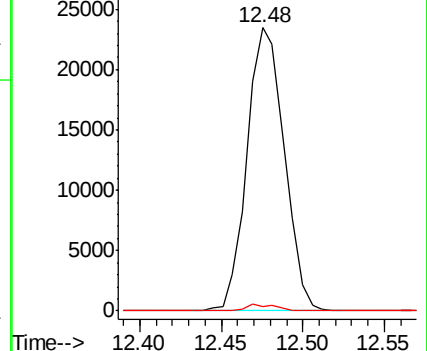
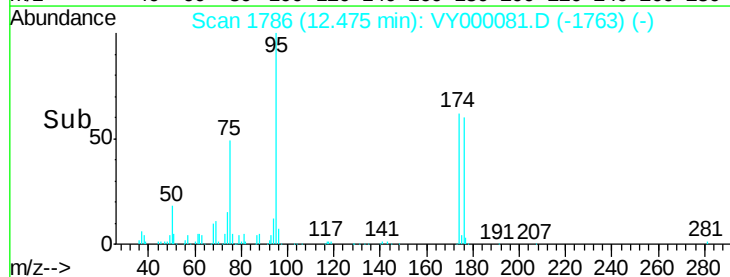
75 100

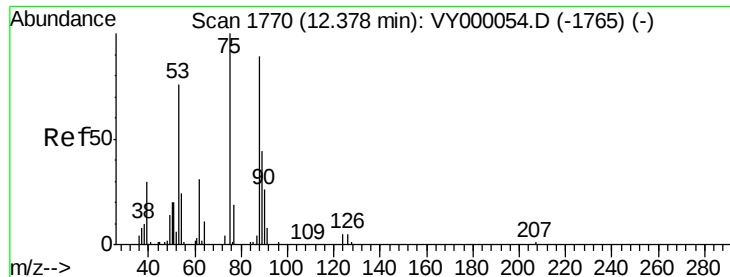
77 1.8 0.0 0.0#



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: 84.958 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. 0.10 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-8-2

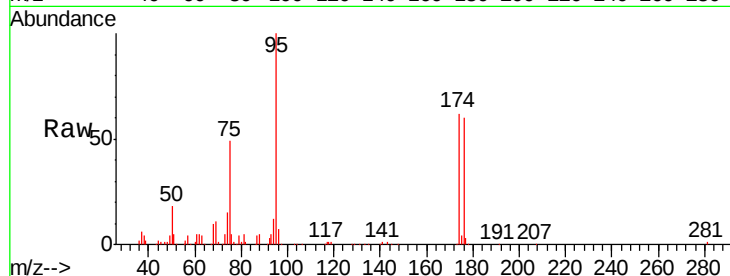
Tgt Ion: 75 Resp: 37302

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

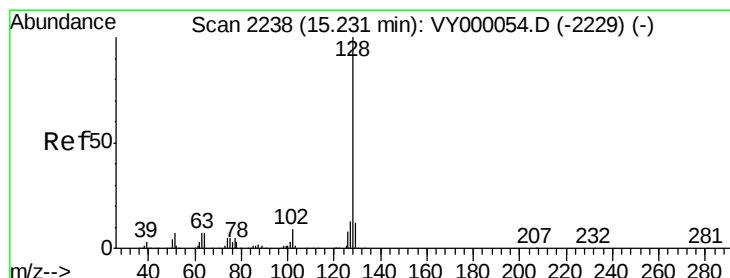
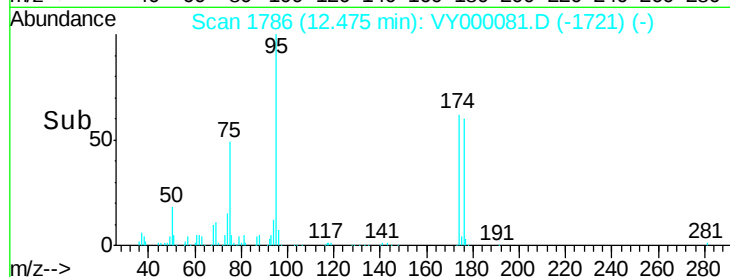
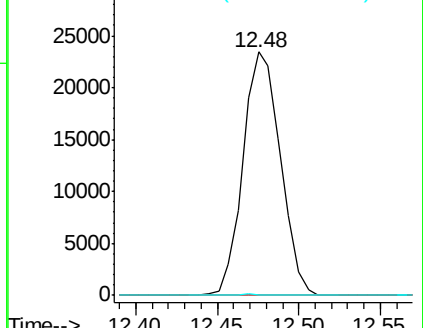
89 0.2 35.3 52.9#



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



#95

Naphthalene

Concen: 12.088 ug/l

RT: 15.23 min Scan# 2238

Delta R.T. -0.00 min

Lab File: VY000081.D

Acq: 19 Sep 2019 16:42

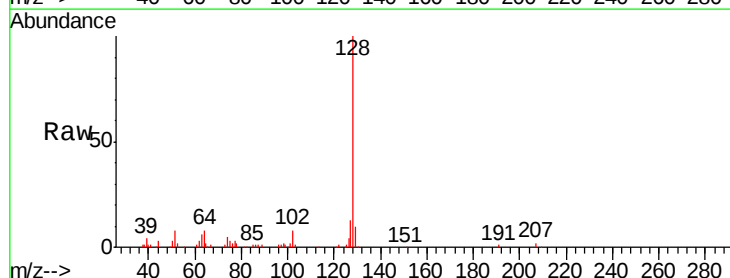
Tgt Ion: 128 Resp: 38976

Ion Ratio Lower Upper

128 100

127 12.2 10.3 15.5

129 11.2 9.2 13.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

