

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY091919\
 Data File : VY000082.D
 Acq On : 19 Sep 2019 17:06
 Operator : SY/MD
 Sample : K4878-12
 Misc : 5.89g/5.00ml/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CSA-2-8-3

Quant Time: Sep 20 01:56:42 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

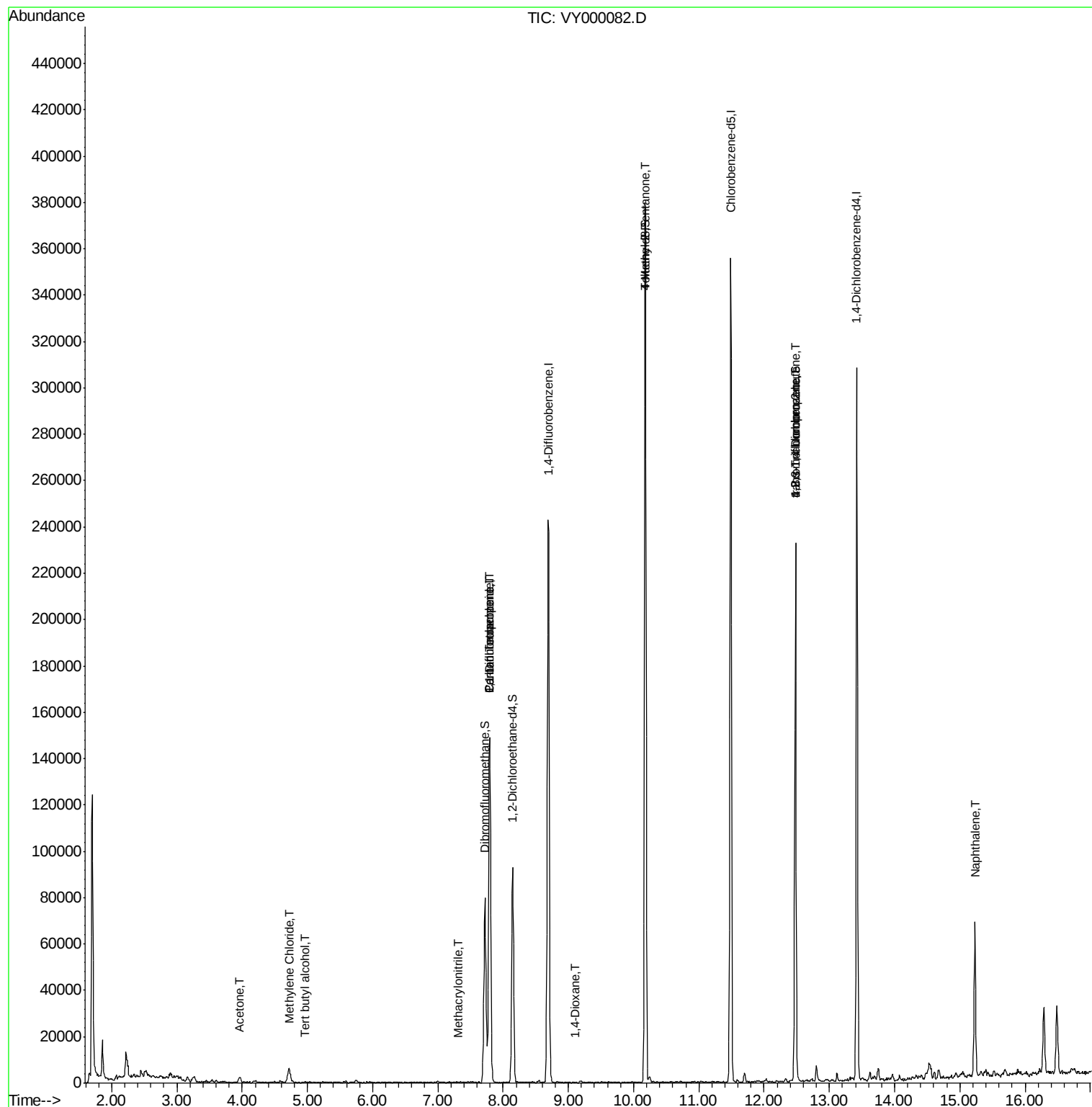
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	109632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	216114	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	181383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	69426	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	63833	50.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.22%	
35) Dibromofluoromethane	7.73	113	57584	44.01	ug/l	0.01
Spiked Amount 50.000			Recovery	=	88.02%	
50) Toluene-d8	10.18	98	253114	49.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.50%	
62) 4-Bromofluorobenzene	12.48	95	80685	42.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.56%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.15	85	25	Below Cal	#	42
3) Chloromethane	2.11	50	760	Below Cal		95
5) Bromomethane	2.71	94	76	Below Cal	#	6
11) Tert butyl alcohol	4.96	59	181	1.210 ug/l	#	73
13) Acrolein	3.71	56	50	Below Cal	#	40
16) Acetone	3.96	43	3586	12.211 ug/l		87
17) Carbon Disulfide	4.17	76	389	Below Cal	#	77
20) Methylene Chloride	4.71	84	4474	3.238 ug/l	#	92
31) Cyclohexane	7.79	56	2770	Below Cal	#	1
36) 1,1-Dichloropropene	7.79	75	9089	5.625 ug/l	#	48
38) Carbon Tetrachloride	7.79	117	11492	7.535 ug/l	#	17
41) Methacrylonitrile	7.31	41	93	4.410 ug/l	#	29
49) 1,4-Dioxane	9.10	88	52	3.547 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.18	43	1272	1.106 ug/l	#	1
76) 1,2,3-Trichloropropane	12.48	75	39822	40.767 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.48	75	39822	78.405 ug/l	#	19
95) Naphthalene	15.23	128	50928	13.654 ug/l		99

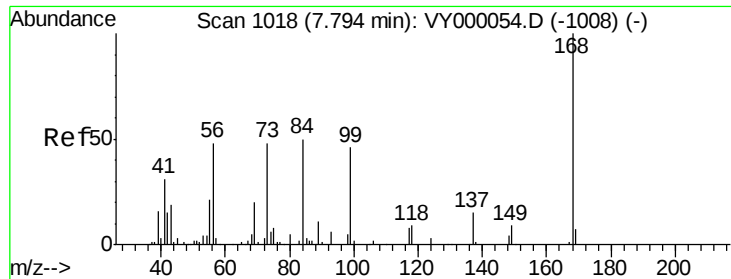
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampled :

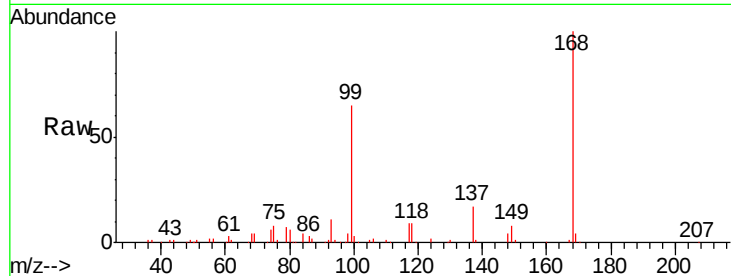
CSA-2-8-3

Tgt Ion:168 Resp: 109632

Ion Ratio Lower Upper

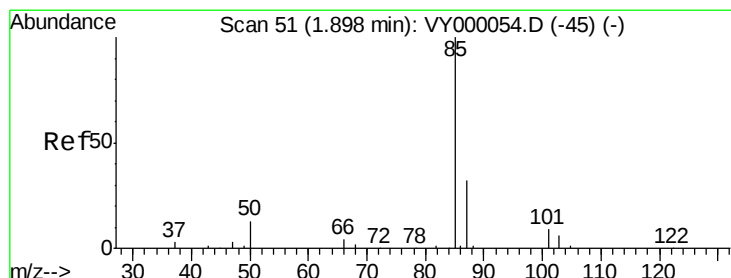
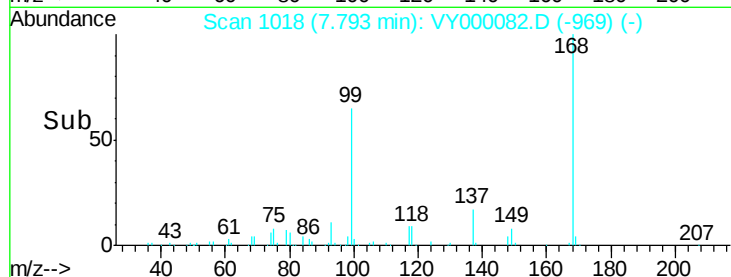
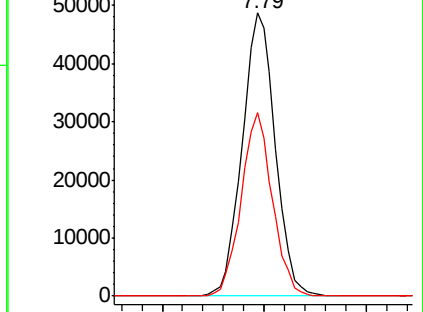
168 100

99 64.9 44.2 66.2



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

Ion 98.90 (98.60 to 99.60): VY000054.D (-1008) (-)



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.15 min Scan# 92

Delta R.T. 0.25 min

Lab File: VY000082.D

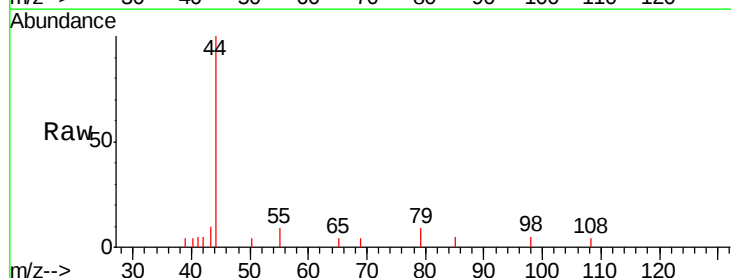
Acq: 19 Sep 2019 17:06

Tgt Ion: 85 Resp: 25

Ion Ratio Lower Upper

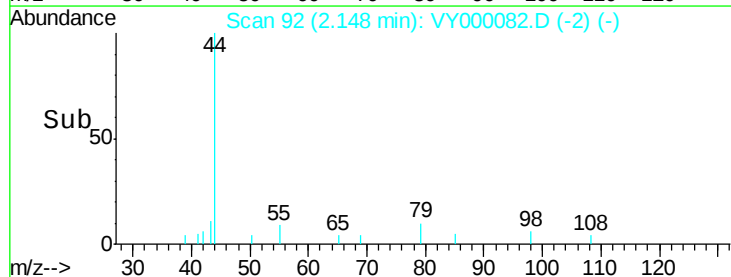
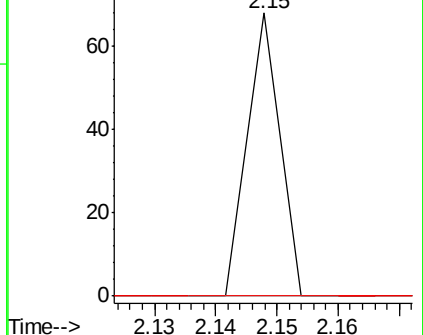
85 100

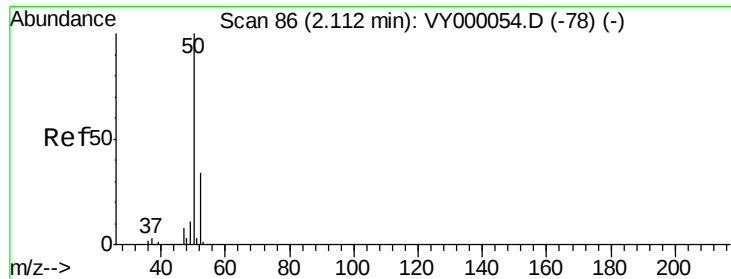
87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VY000054.D (-45) (-)

Ion 86.90 (86.60 to 87.60): VY000054.D (-45) (-)





#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 86

Delta R.T. 0.00 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampled :

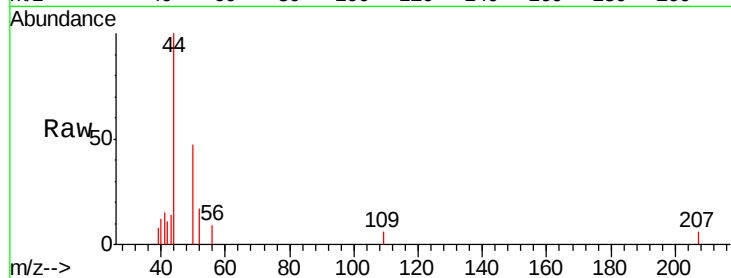
CSA-2-8-3

Tgt Ion: 50 Resp: 760

Ion Ratio Lower Upper

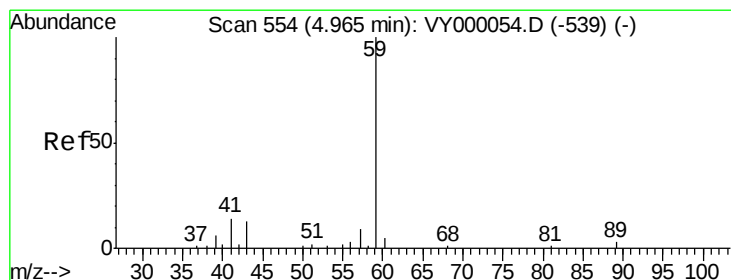
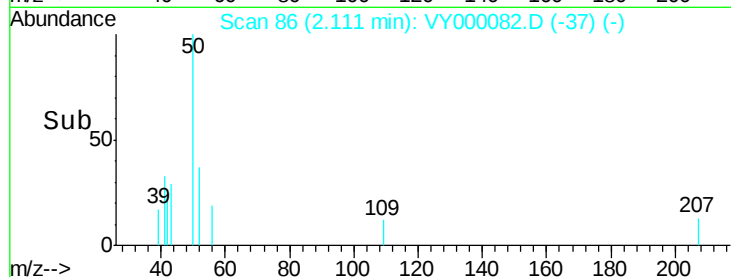
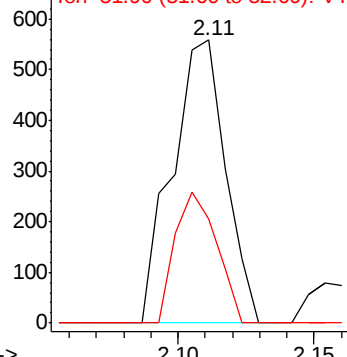
50 100

52 36.7 27.3 40.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#11

Tert butyl alcohol

Concen: 1.210 ug/l

RT: 4.96 min Scan# 553

Delta R.T. -0.01 min

Lab File: VY000082.D

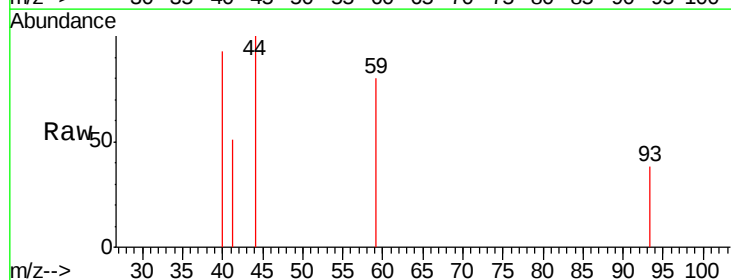
Acq: 19 Sep 2019 17:06

Tgt Ion: 59 Resp: 181

Ion Ratio Lower Upper

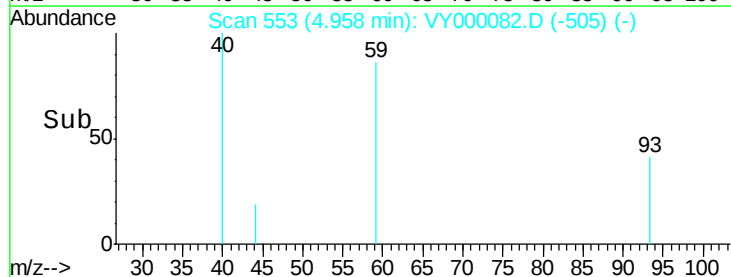
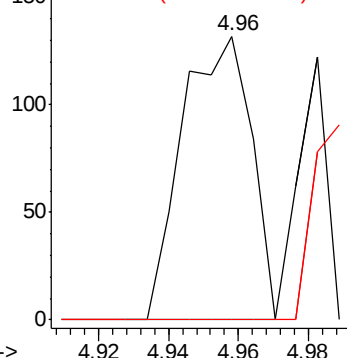
59 100

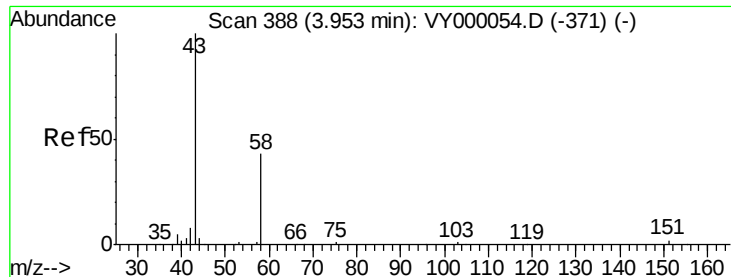
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 12.211 ug/l

RT: 3.96 min Scan# 390

Delta R.T. 0.01 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampled :

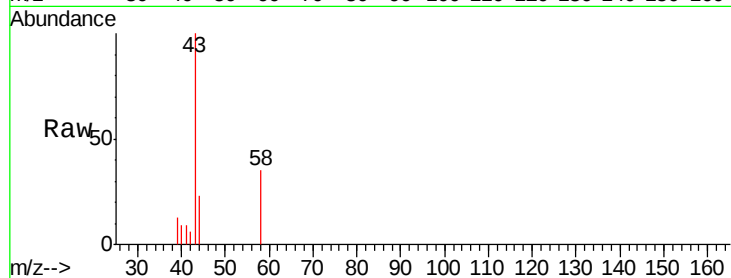
CSA-2-8-3

Tgt Ion: 43 Resp: 3586

Ion Ratio Lower Upper

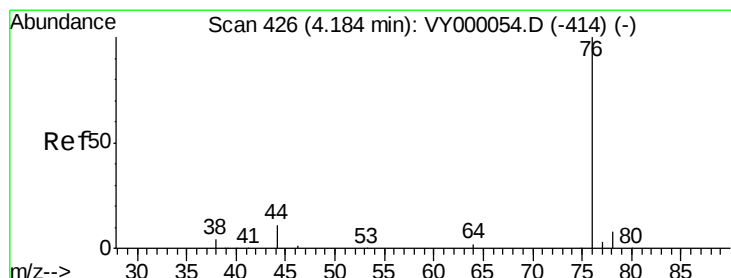
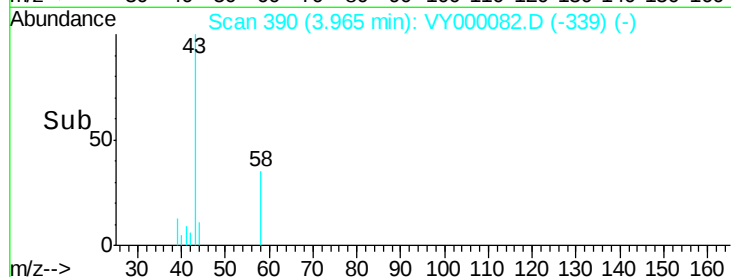
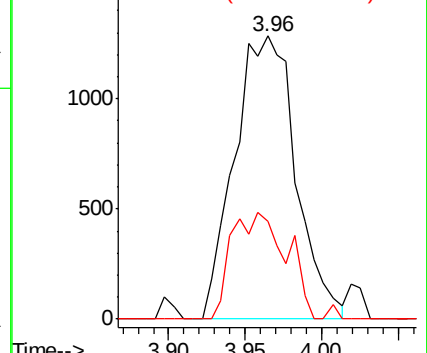
43 100

58 34.6 34.5 51.7



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.17 min Scan# 424

Delta R.T. -0.01 min

Lab File: VY000082.D

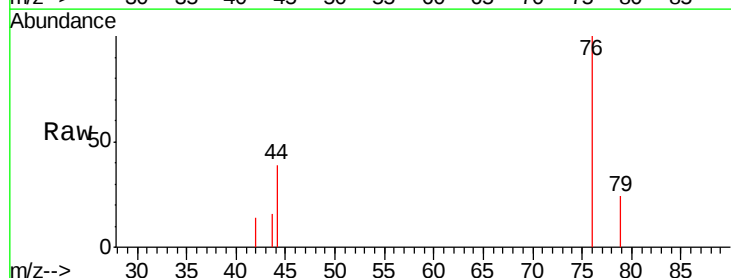
Acq: 19 Sep 2019 17:06

Tgt Ion: 76 Resp: 389

Ion Ratio Lower Upper

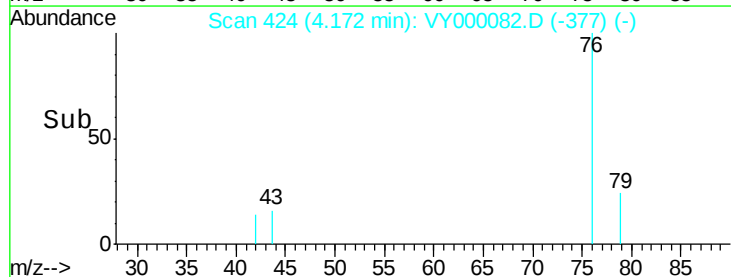
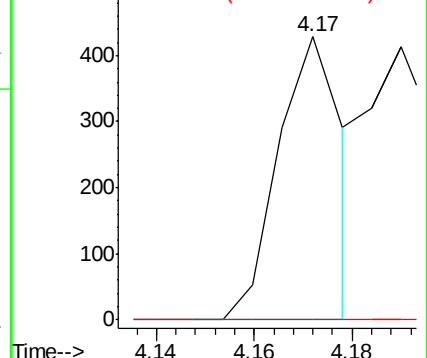
76 100

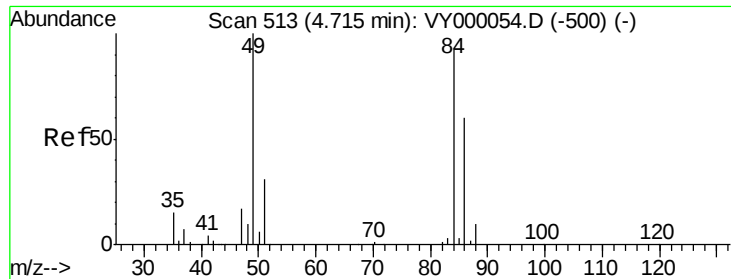
78 0.0 6.6 9.8#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0





#20

Methylene Chloride

Concen: 3.238 ug/l

RT: 4.71 min Scan# 513

Delta R.T. -0.00 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

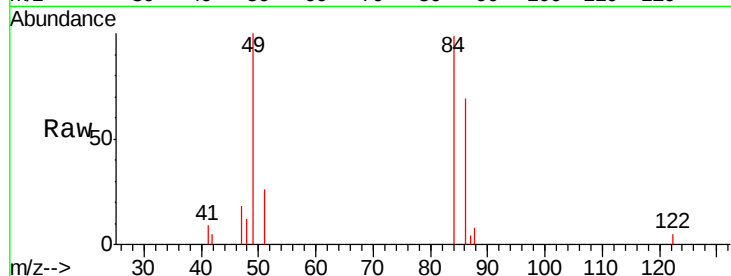
ClientSampled :

CSA-2-8-3

Tgt Ion: 84 Resp: 4474

Ion Ratio Lower Upper

84	100		
49	101.3	87.4	131.0
51	26.0	27.2	40.8#
86	69.7	52.8	79.2

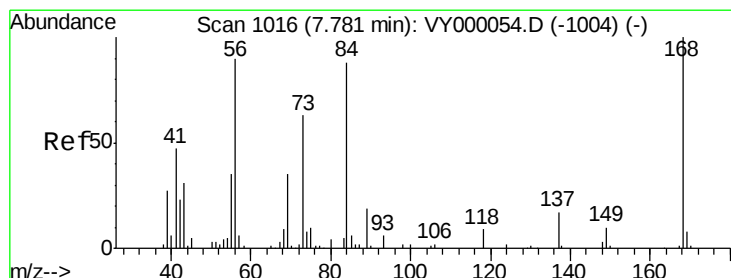
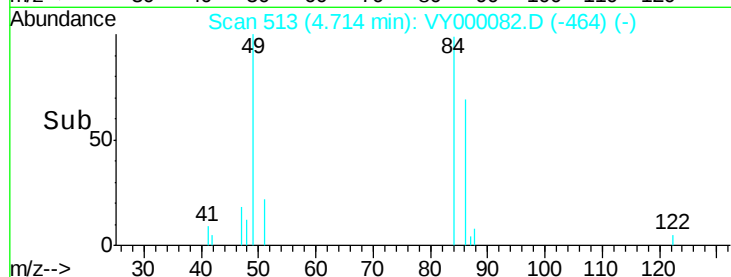
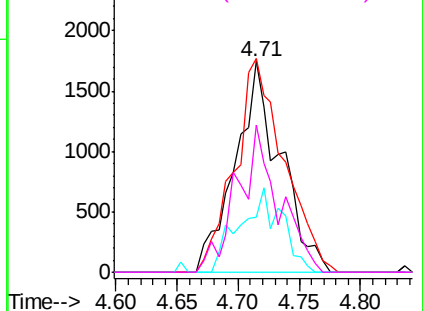


Abundance Ion 83.90 (83.60 to 84.60): VY0

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



#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1017

Delta R.T. 0.01 min

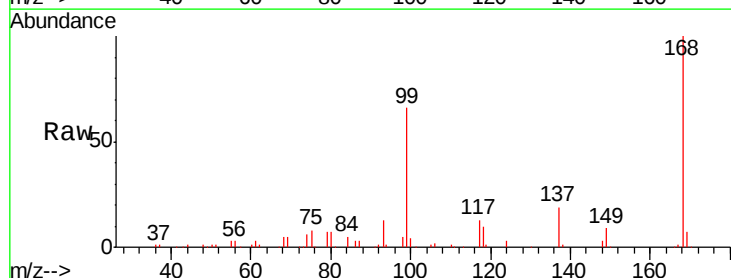
Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Tgt Ion: 56 Resp: 2770

Ion Ratio Lower Upper

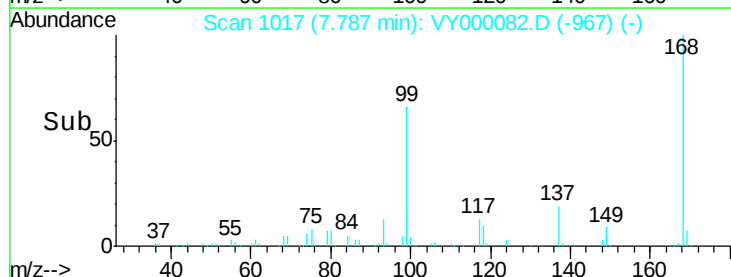
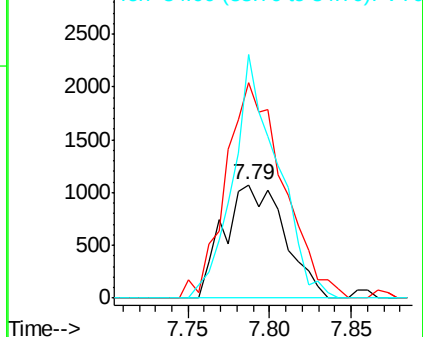
56	100		
69	182.1	30.9	46.3#
84	215.2	78.5	117.7#

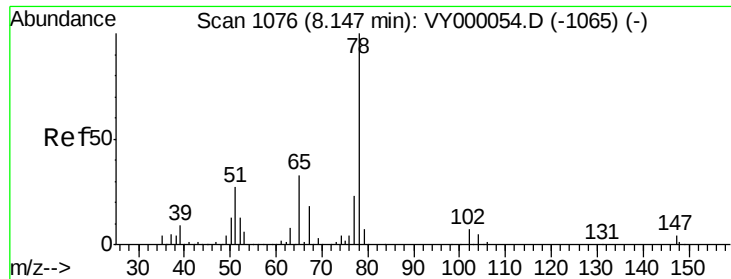


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 50.608 ug/l

RT: 8.15 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampleId :

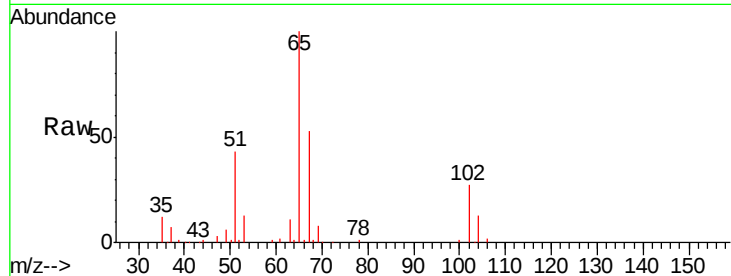
CSA-2-8-3

Tgt Ion: 65 Resp: 63833

Ion Ratio Lower Upper

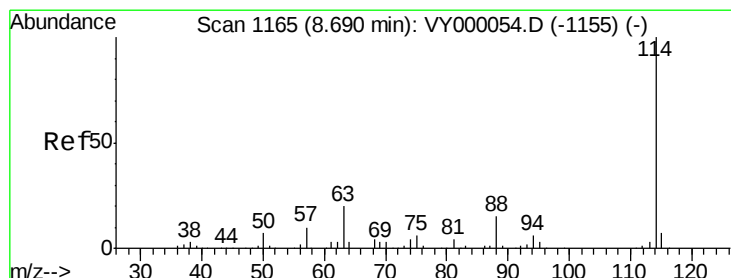
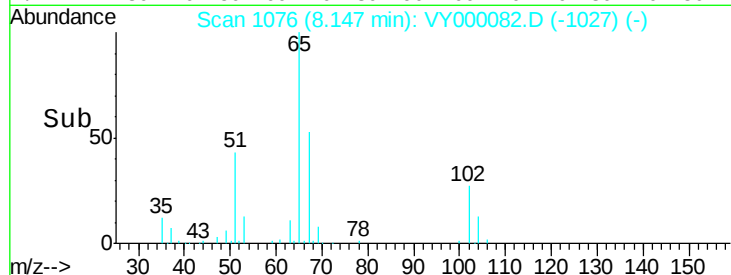
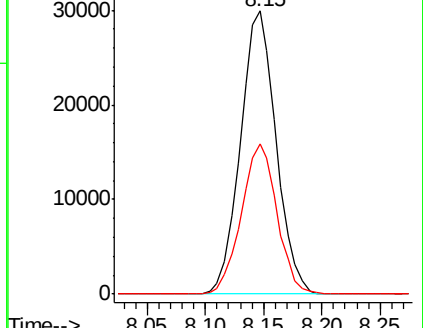
65 100

67 53.1 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY000082.D (-1077) (-)

Ion 66.90 (66.60 to 67.60): VY000082.D (-1077) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1166

Delta R.T. 0.01 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

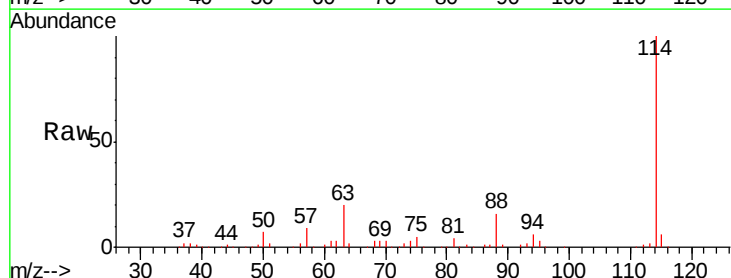
Tgt Ion: 114 Resp: 216114

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.4

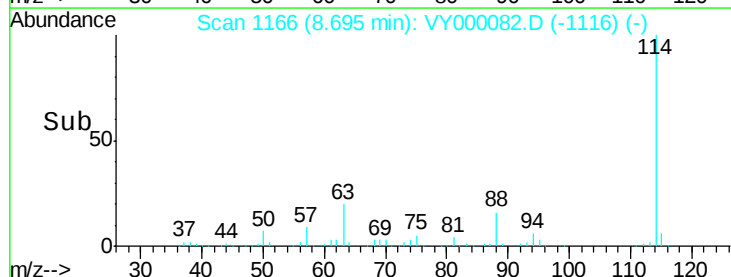
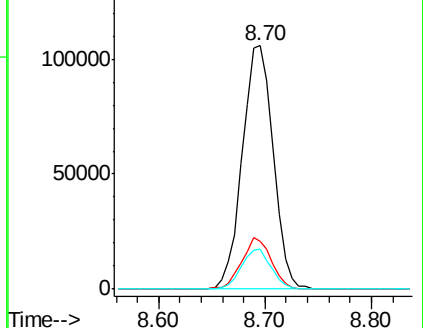
88 16.4 0.0 30.2

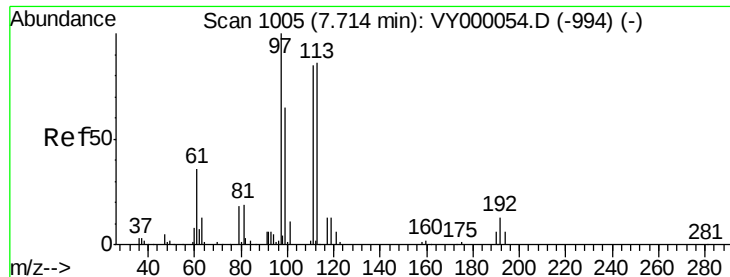


Abundance Ion 113.90 (113.60 to 114.60): VY000082.D (-1116) (-)

Ion 63.00 (62.70 to 63.70): VY000082.D (-1116) (-)

Ion 87.90 (87.60 to 88.60): VY000082.D (-1116) (-)

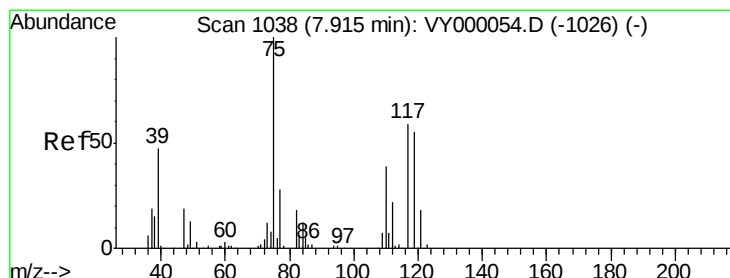
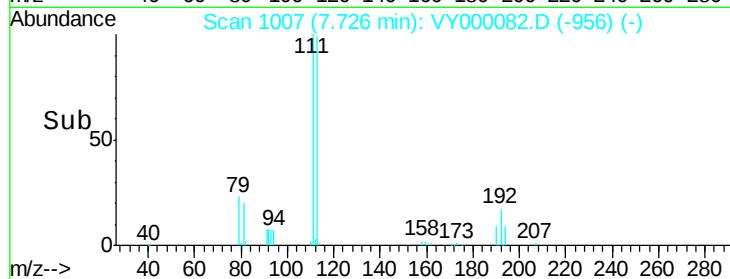
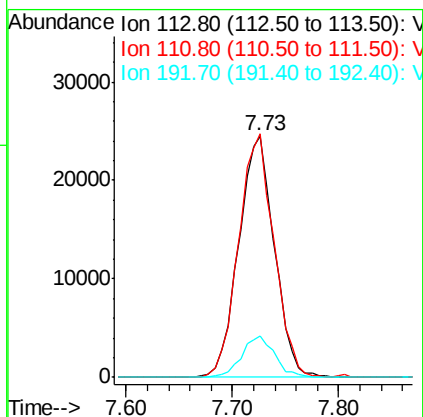
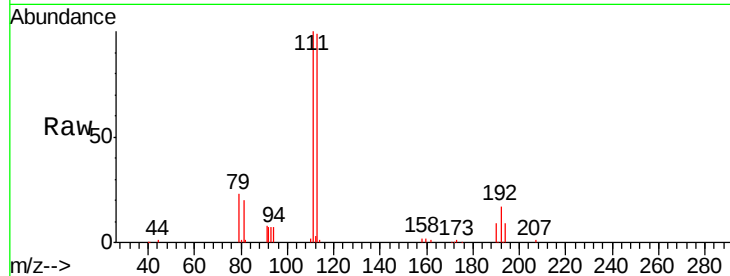




#35
 Dibromofluoromethane
 Concen: 44.007 ug/l
 RT: 7.73 min Scan# 1007
 Delta R.T. 0.01 min
 Lab File: VY000082.D
 Acq: 19 Sep 2019 17:06

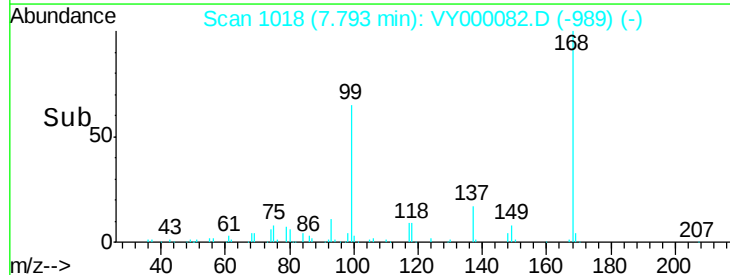
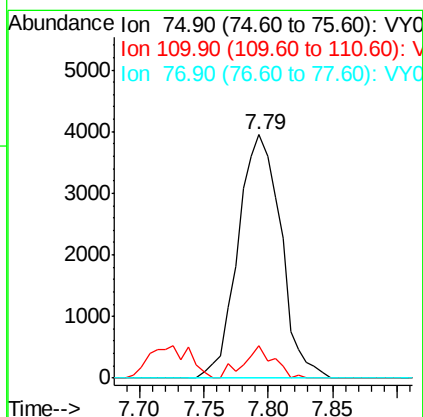
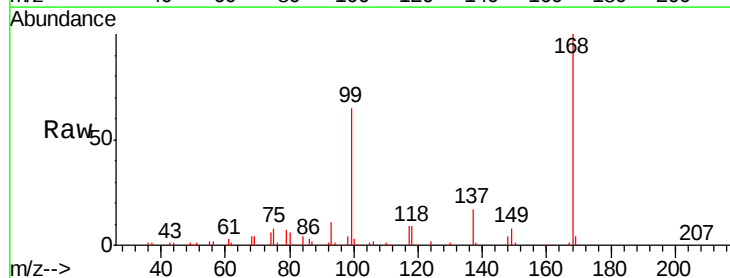
Instrument :
 MSVOA_Y
 ClientSampleId :
 CSA-2-8-3

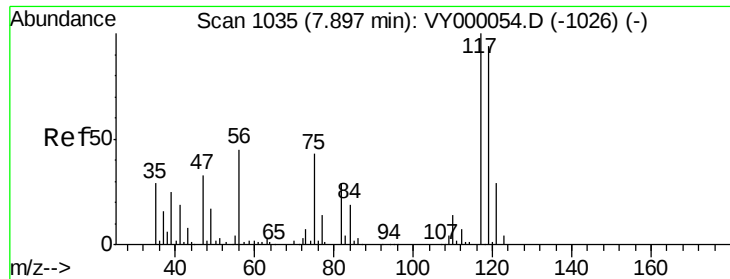
Tgt Ion: 113 Resp: 57584
 Ion Ratio Lower Upper
 113 100
 111 100.5 81.7 122.5
 192 16.0 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 5.625 ug/l
 RT: 7.79 min Scan# 1018
 Delta R.T. -0.12 min
 Lab File: VY000082.D
 Acq: 19 Sep 2019 17:06

Tgt Ion: 75 Resp: 9089
 Ion Ratio Lower Upper
 75 100
 110 9.2 19.6 58.7#
 77 0.0 24.3 36.5#

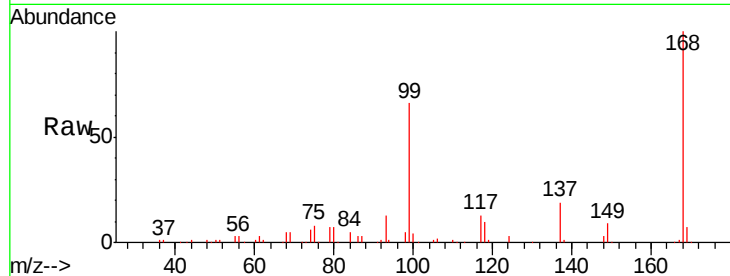




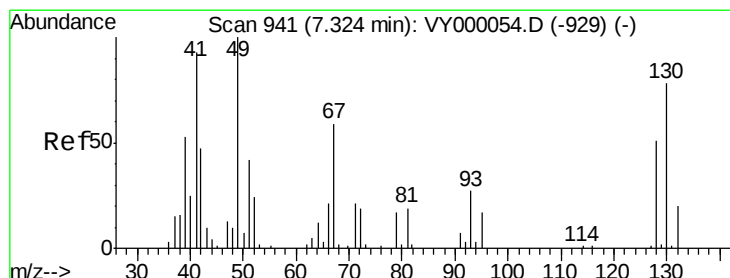
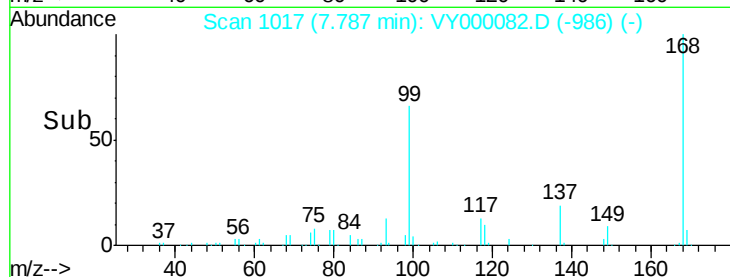
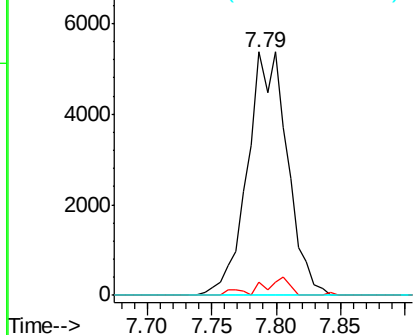
#38
Carbon Tetrachloride
Concen: 7.535 ug/l
RT: 7.79 min Scan# 1017
Delta R.T. -0.11 min
Lab File: VY000082.D
Acq: 19 Sep 2019 17:06

Instrument :
MSVOA_Y
ClientSampled :
CSA-2-8-3

Tgt Ion:117 Resp: 11492
Ion Ratio Lower Upper
117 100
119 5.2 75.0 112.6#
121 0.0 22.8 34.2#

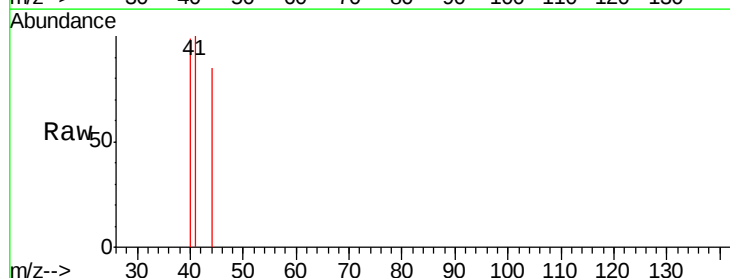


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

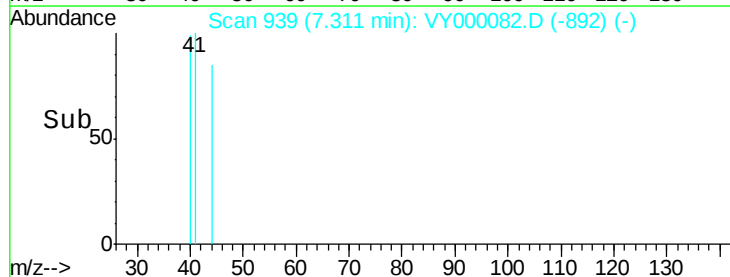
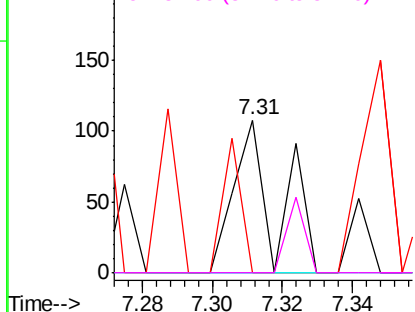


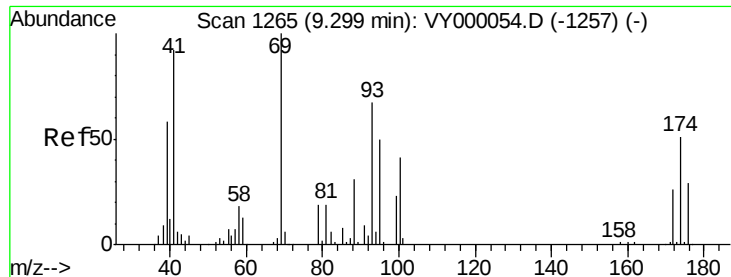
#41
Methacrylonitrile
Concen: 4.410 ug/l
RT: 7.31 min Scan# 939
Delta R.T. -0.01 min
Lab File: VY000082.D
Acq: 19 Sep 2019 17:06

Tgt Ion: 41 Resp: 93
Ion Ratio Lower Upper
41 100
39 37.6 91.8 137.6#
67 0.0 0.0 0.0
52 21.5 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: 3.547 ug/l

RT: 9.10 min Scan# 1232

Delta R.T. -0.20 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampleId :

CSA-2-8-3

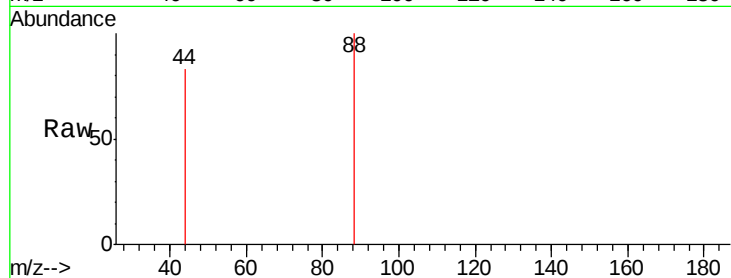
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 148.1 18.7 28.1#

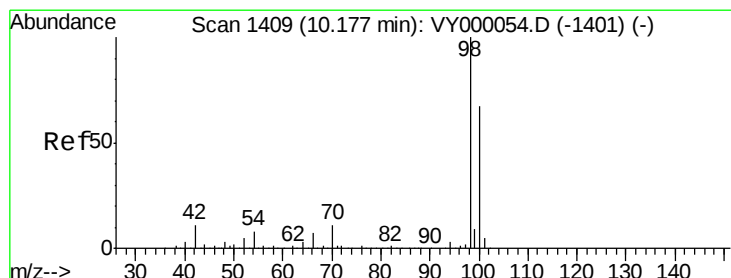
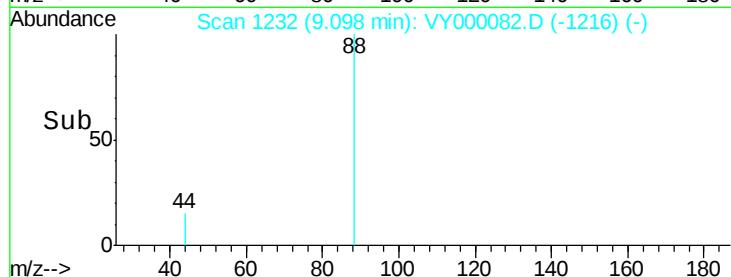
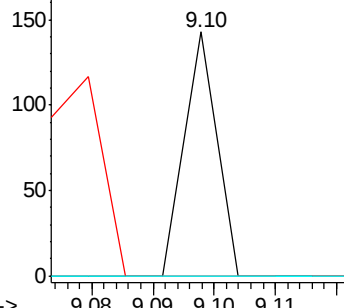
58 0.0 53.0 79.6#



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: 49.249 ug/l

RT: 10.18 min Scan# 1410

Delta R.T. 0.01 min

Lab File: VY000082.D

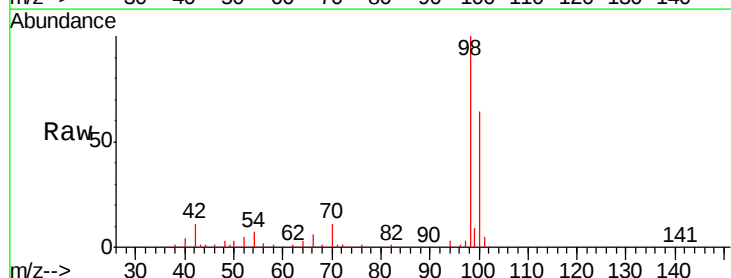
Acq: 19 Sep 2019 17:06

Tgt Ion: 98 Resp: 253114

Ion Ratio Lower Upper

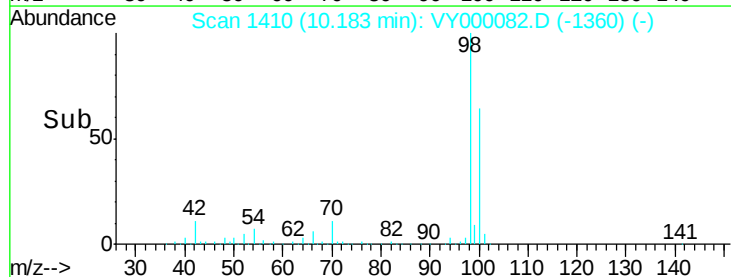
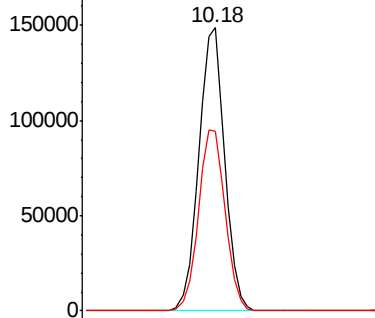
98 100

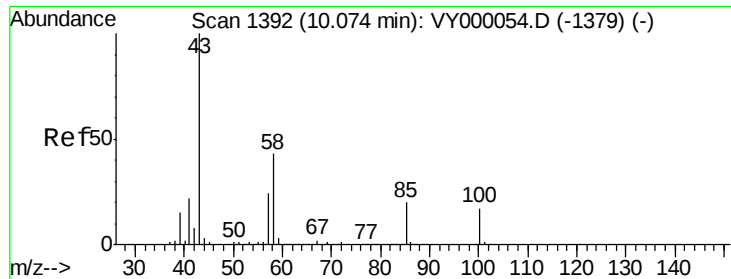
100 66.3 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 1.106 ug/l

RT: 10.18 min Scan# 1410

Delta R.T. 0.11 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampleId :

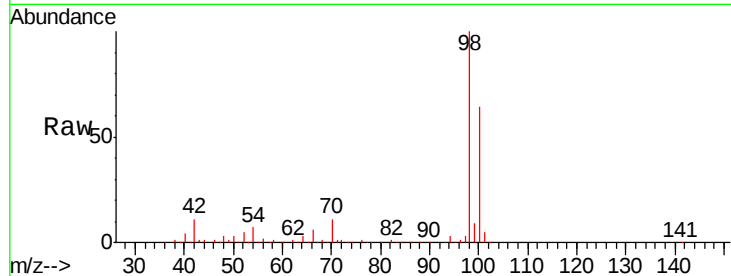
CSA-2-8-3

Tgt Ion: 43 Resp: 1272

Ion Ratio Lower Upper

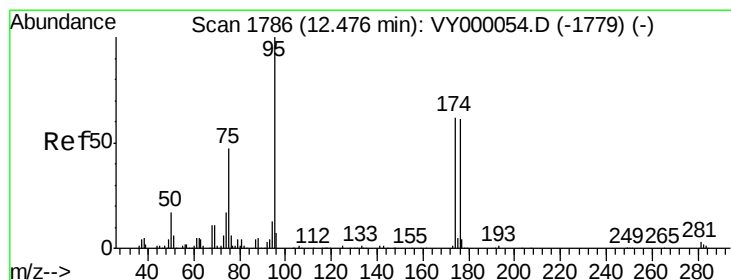
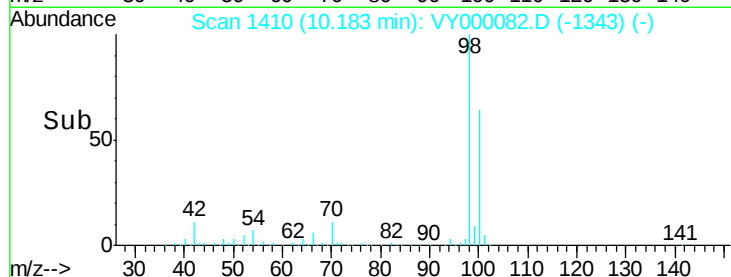
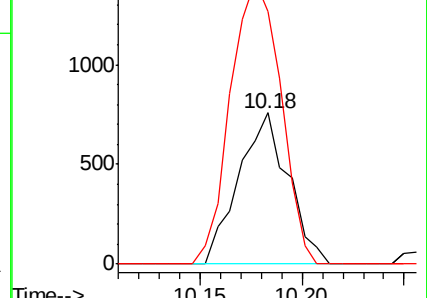
43 100

58 190.0 34.2 51.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#62

4-Bromofluorobenzene

Concen: 42.285 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.01 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

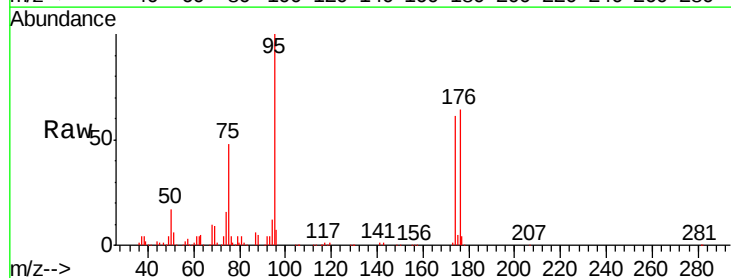
Tgt Ion: 95 Resp: 80685

Ion Ratio Lower Upper

95 100

174 63.9 0.0 137.2

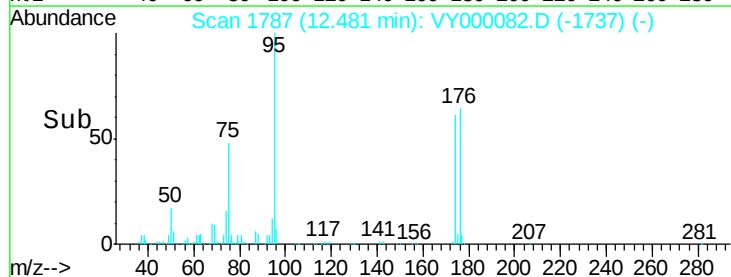
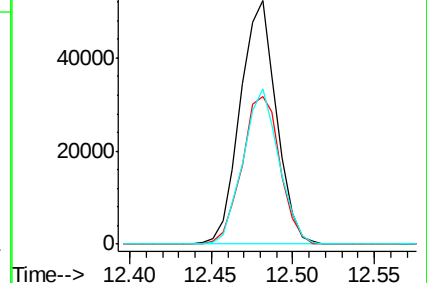
176 63.3 0.0 135.0

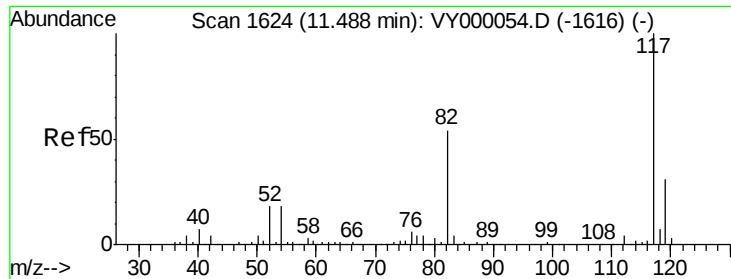


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

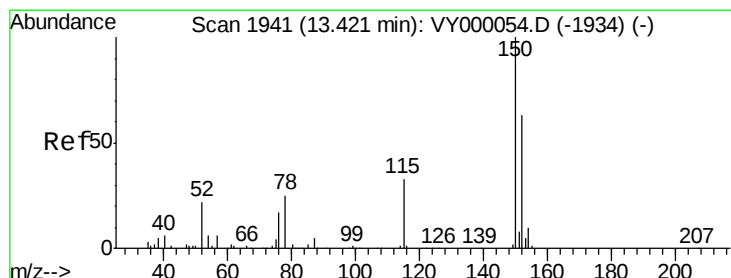
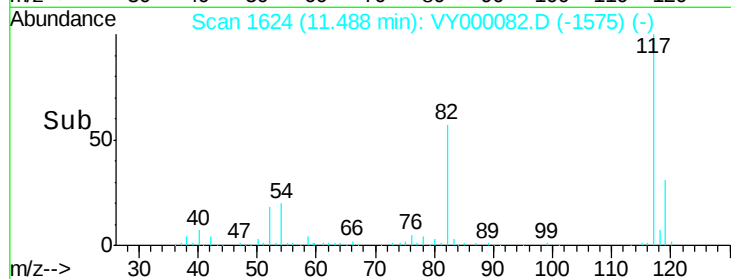
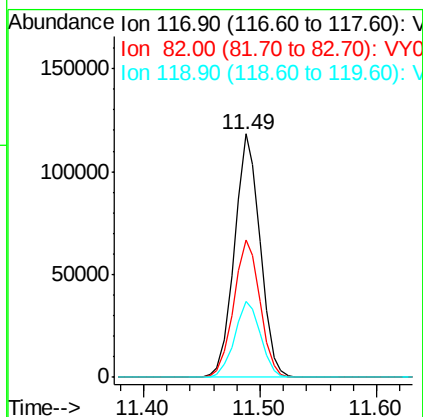
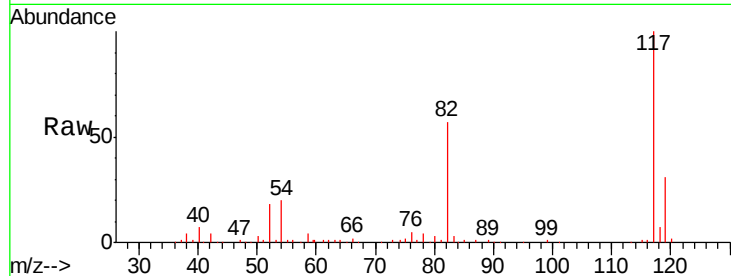




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000082.D
Acq: 19 Sep 2019 17:06

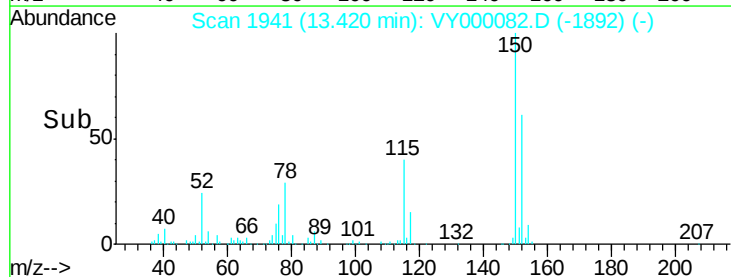
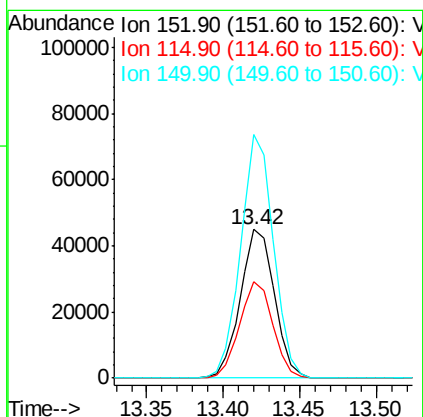
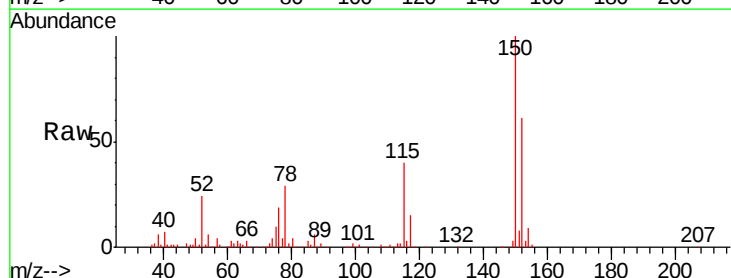
Instrument :
MSVOA_Y
ClientSampleId :
CSA-2-8-3

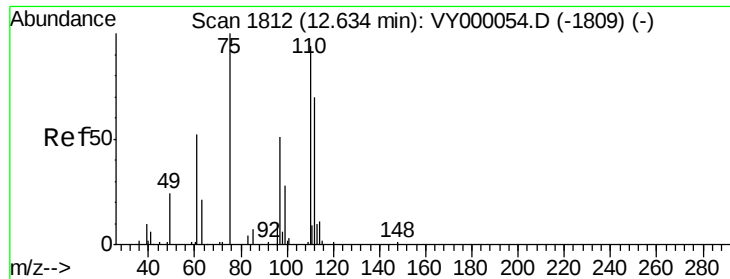
Tgt Ion:117 Resp: 181383
Ion Ratio Lower Upper
117 100
82 56.6 43.5 65.3
119 31.2 24.6 36.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VY000082.D
Acq: 19 Sep 2019 17:06

Tgt Ion:152 Resp: 69426
Ion Ratio Lower Upper
152 100
115 63.5 30.7 92.1
150 157.7 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 40.767 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. -0.15 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

Instrument :

MSVOA_Y

ClientSampleId :

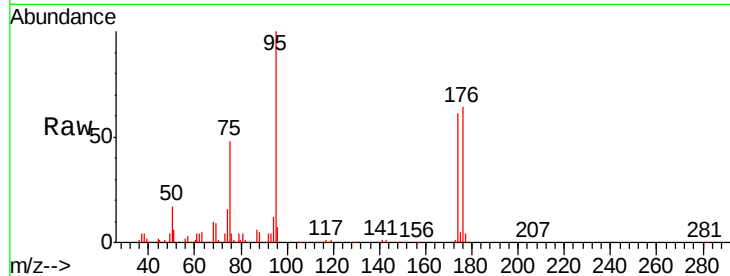
CSA-2-8-3

Tgt Ion: 75 Resp: 39822

Ion Ratio Lower Upper

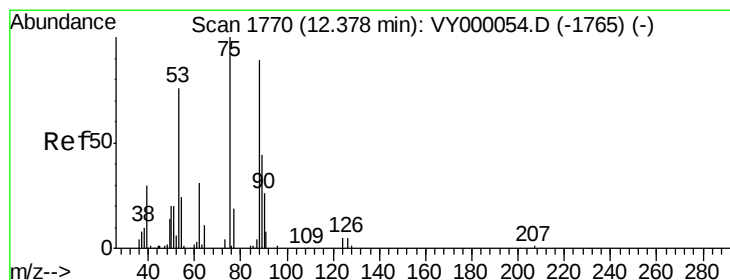
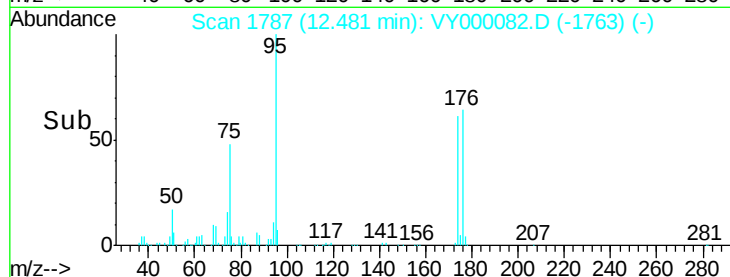
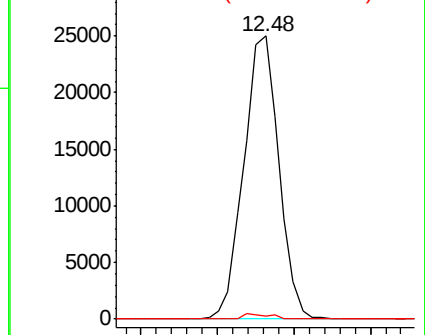
75 100

77 1.5 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: 78.405 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.10 min

Lab File: VY000082.D

Acq: 19 Sep 2019 17:06

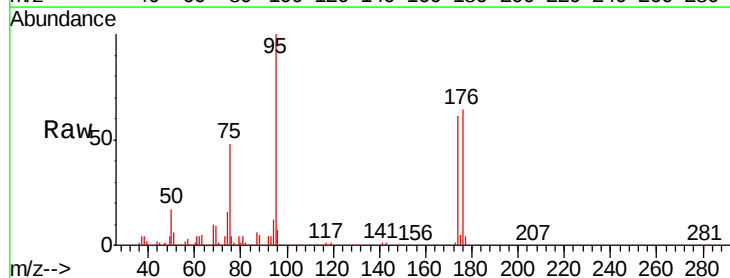
Tgt Ion: 75 Resp: 39822

Ion Ratio Lower Upper

75 100

53 0.0 60.9 91.3#

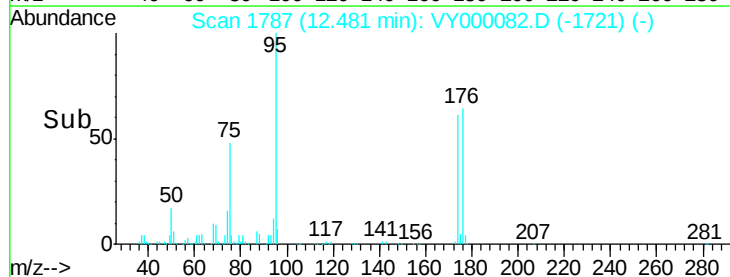
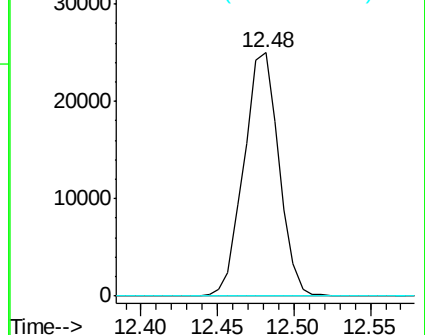
89 0.0 35.3 52.9#

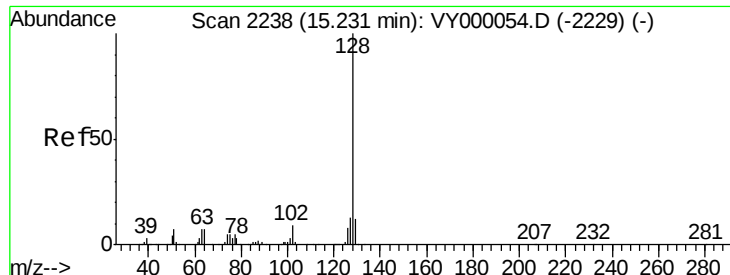


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

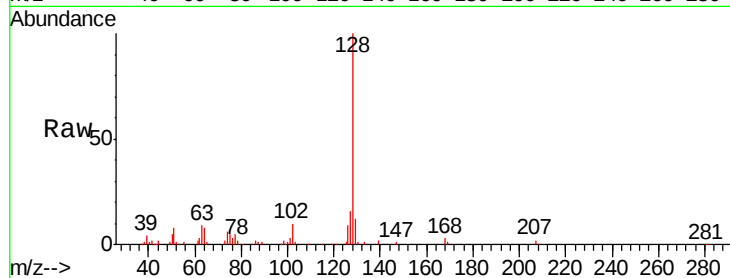




#95
Naphthalene
Concen: 13.654 ug/l
RT: 15.23 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VY000082.D
Acq: 19 Sep 2019 17:06

Instrument :
MSVOA_Y
ClientSampleId :
CSA-2-8-3

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.1	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

