

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY111519\
 Data File : VY000715.D
 Acq On : 15 Nov 2019 20:24
 Operator : SY/MD
 Sample : K5861-08RE
 Misc : 5.39G/5ML/MSVOA_Y/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EP-8RE

Quant Time: Nov 16 02:34:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:30:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	4230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	9014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	8379	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	4106	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	3983	90.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	181.98%	
35) Dibromofluoromethane	7.72	113	1303	24.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	49.24%	
50) Toluene-d8	10.18	98	9790	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
62) 4-Bromofluorobenzene	12.48	95	3542	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	

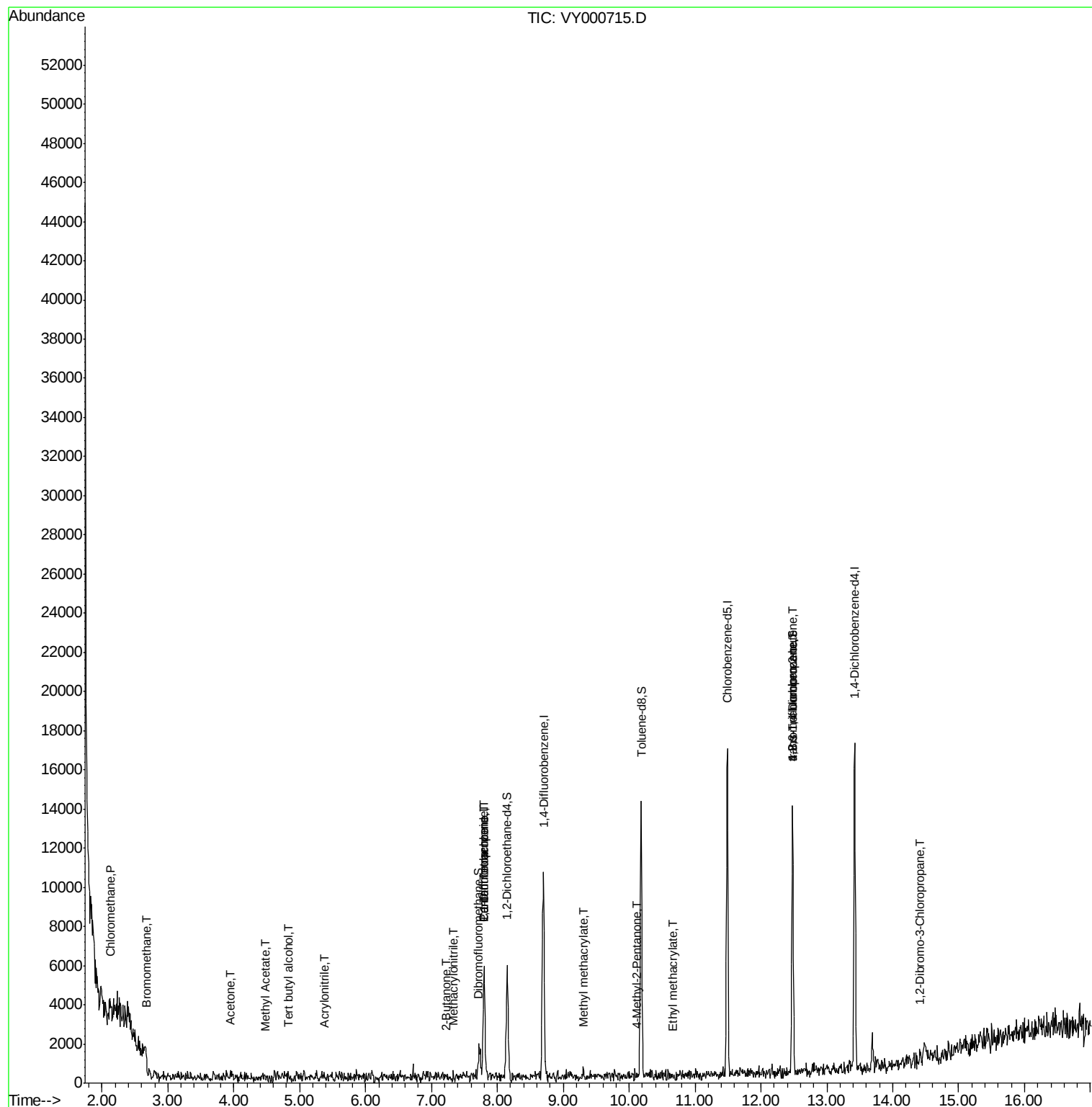
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.13	50	359	6.259	ug/l #	43
5) Bromomethane	2.68	94	233	7.294	ug/l #	5
11) Tert butyl alcohol	4.82	59	56	13.142	ug/l #	72
15) Acrylonitrile	5.37	53	38	2.902	ug/l #	18
16) Acetone	3.95	43	544	45.089	ug/l #	42
18) Methyl Acetate	4.48	43	43	1.146	ug/l #	51
25) 2-Butanone	7.22	43	33	1.714	ug/l #	49
36) 1,1-Dichloropropene	7.80	75	375	4.401	ug/l #	41
38) Carbon Tetrachloride	7.80	117	502	6.122	ug/l #	11
41) Methacrylonitrile	7.33	41	82	2.905	ug/l #	7
48) Methyl methacrylate	9.31	41	50	1.204	ug/l #	11
51) 4-Methyl-2-Pentanone	10.11	43	71	1.405	ug/l	91
56) Ethyl methacrylate	10.67	69	76	1.096	ug/l #	55
76) 1,2,3-Trichloropropane	12.48	75	2462	52.660	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	2462	118.072	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.41	75	55	5.172	ug/l #	1

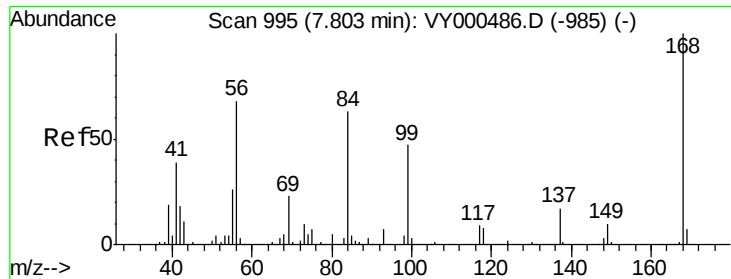
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

Instrument :

MSVOA_Y

ClientSampled :

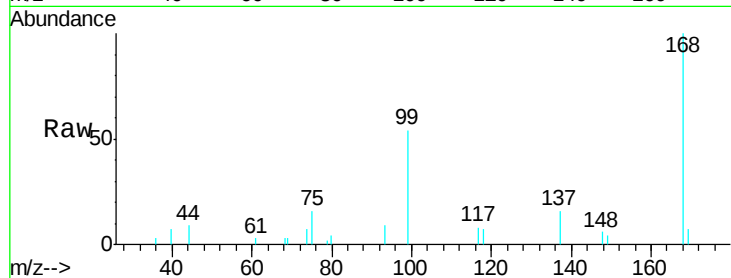
EP-8RE

Tgt Ion:168 Resp: 4230

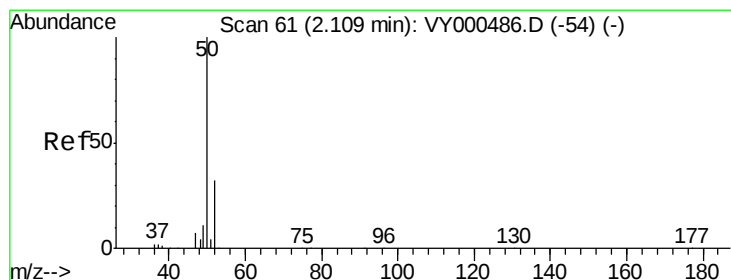
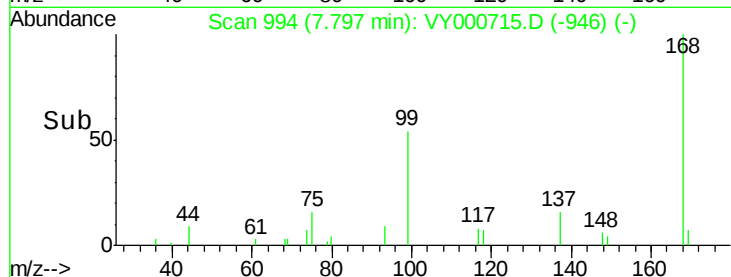
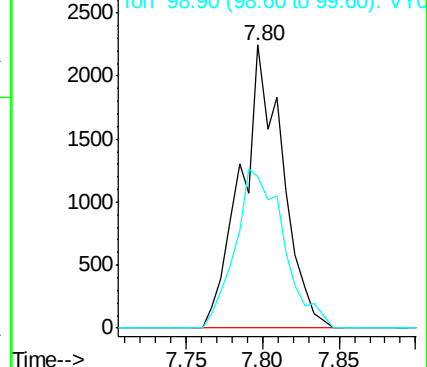
Ion Ratio Lower Upper

168 100

99 53.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)



#3

Chloromethane

Concen: 6.259 ug/l

RT: 2.13 min Scan# 64

Delta R.T. 0.02 min

Lab File: VY000715.D

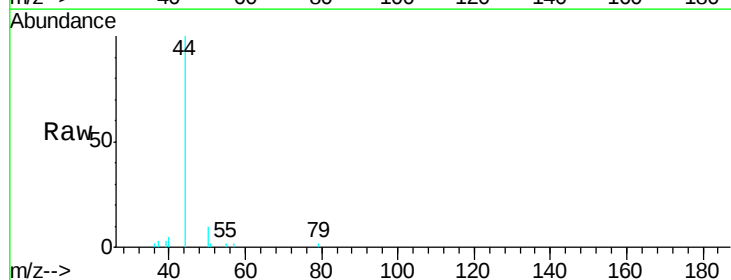
Acq: 15 Nov 2019 20:24

Tgt Ion: 50 Resp: 359

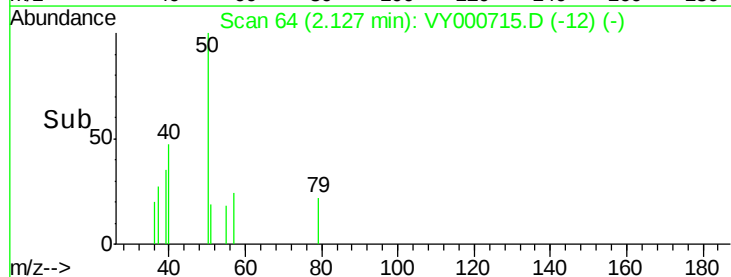
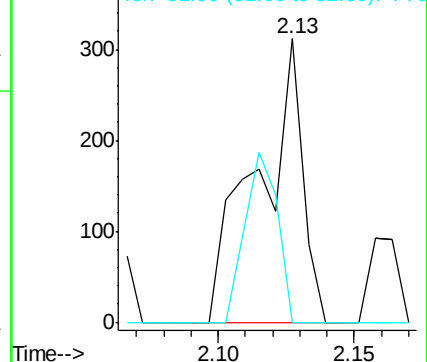
Ion Ratio Lower Upper

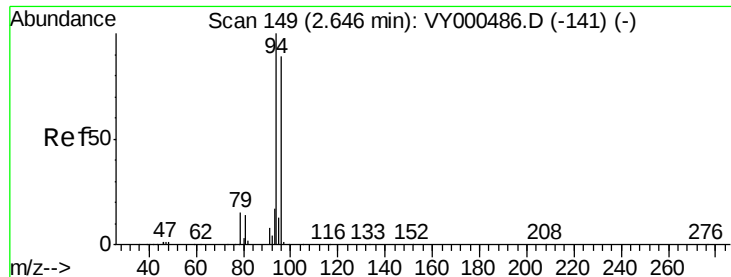
50 100

52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VY000486.D (-54) (-)





#5

Bromomethane

Concen: 7.294 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.03 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

Instrument :

MSVOA_Y

ClientSampled :

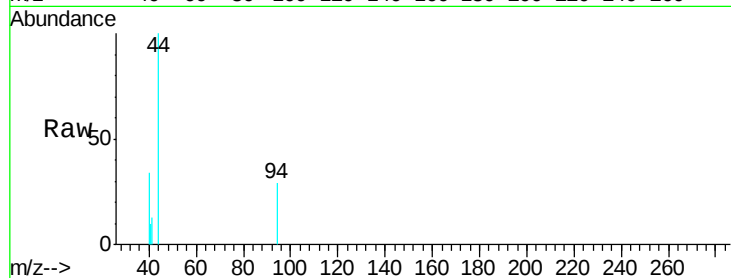
EP-8RE

Tgt Ion: 94 Resp: 233

Ion Ratio Lower Upper

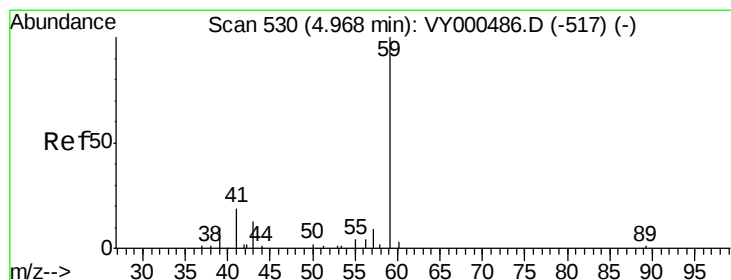
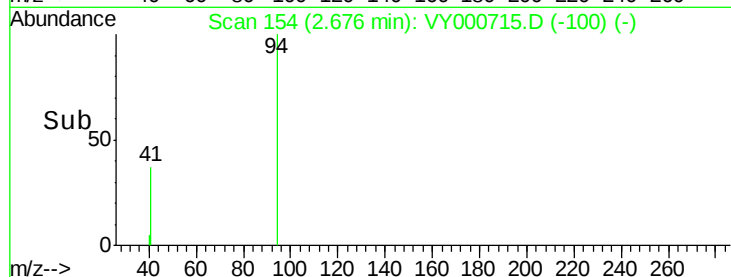
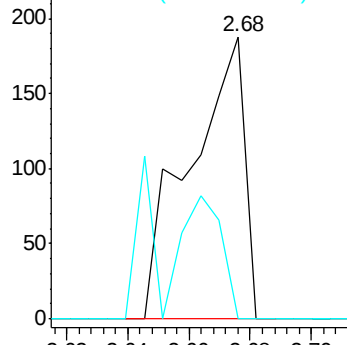
94 100

96 0.0 71.2 106.8#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#11

Tert butyl alcohol

Concen: 13.142 ug/l

RT: 4.82 min Scan# 505

Delta R.T. -0.15 min

Lab File: VY000715.D

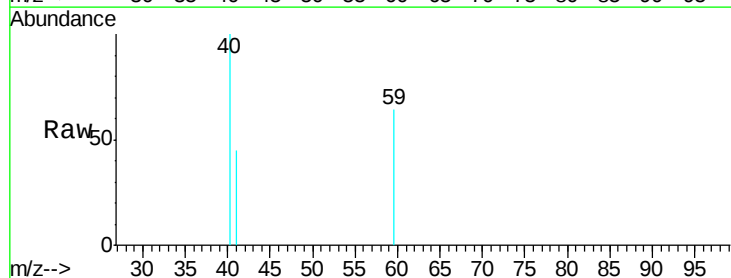
Acq: 15 Nov 2019 20:24

Tgt Ion: 59 Resp: 56

Ion Ratio Lower Upper

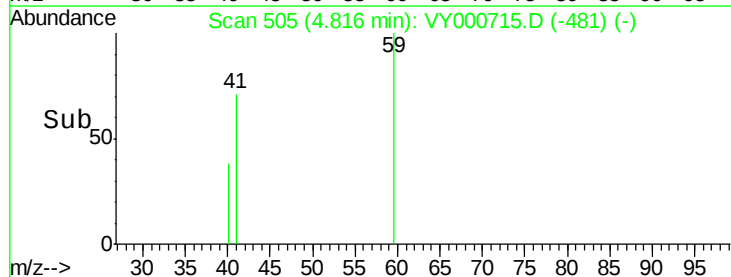
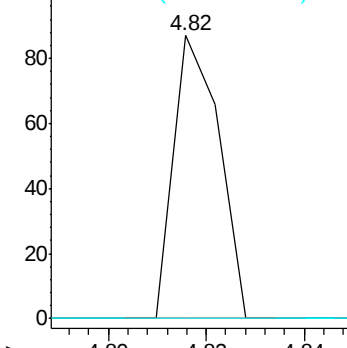
59 100

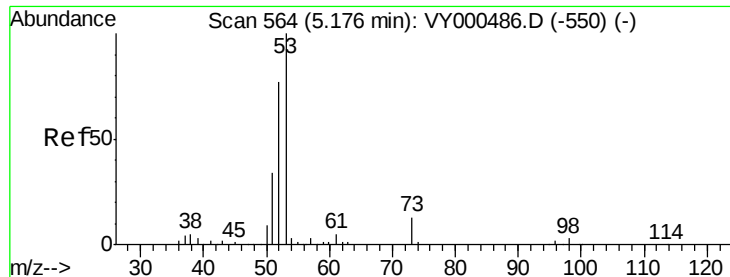
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#15

Acrylonitrile

Concen: 2.902 ug/l

RT: 5.37 min Scan# 596

Delta R.T. 0.19 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

Instrument :

MSVOA_Y

ClientSampleId :

EP-8RE

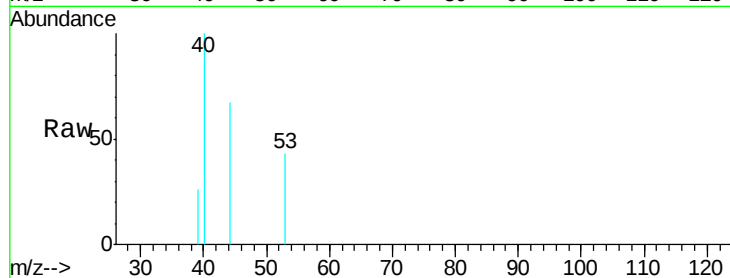
Tgt Ion: 53 Resp: 38

Ion Ratio Lower Upper

53 100

52 0.0 64.9 97.3#

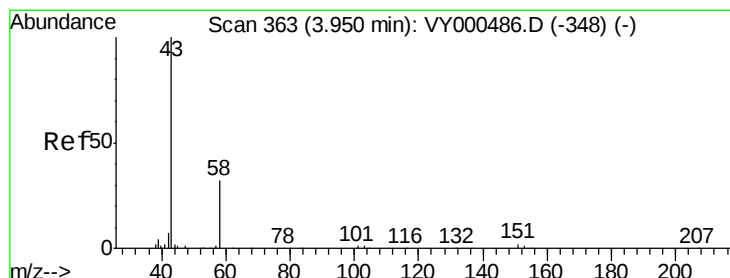
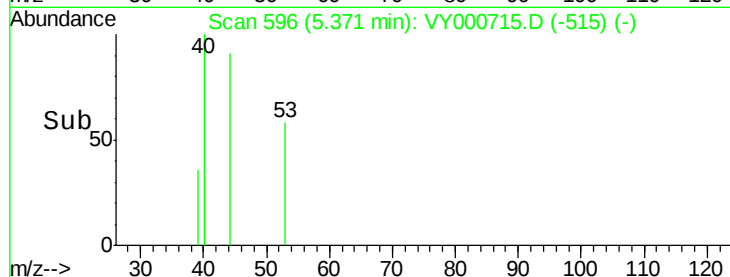
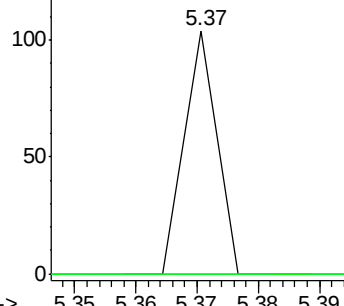
51 0.0 27.6 41.4#



Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 45.089 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VY000715.D

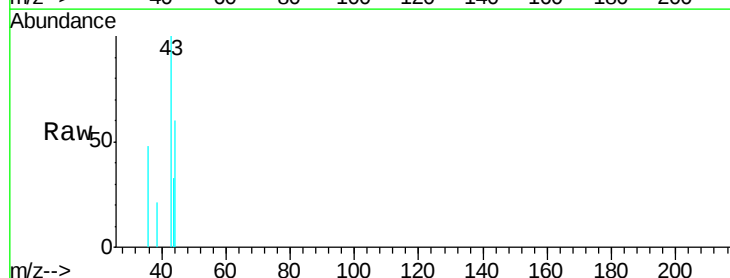
Acq: 15 Nov 2019 20:24

Tgt Ion: 43 Resp: 544

Ion Ratio Lower Upper

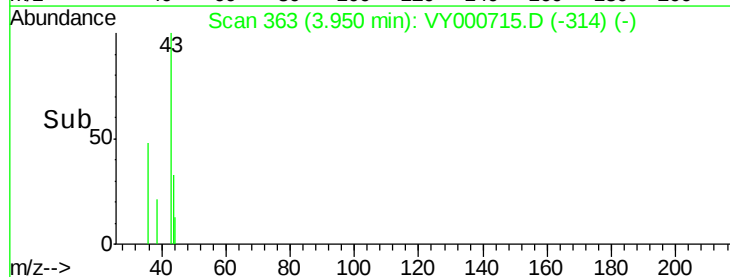
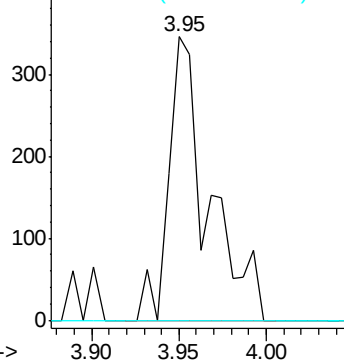
43 100

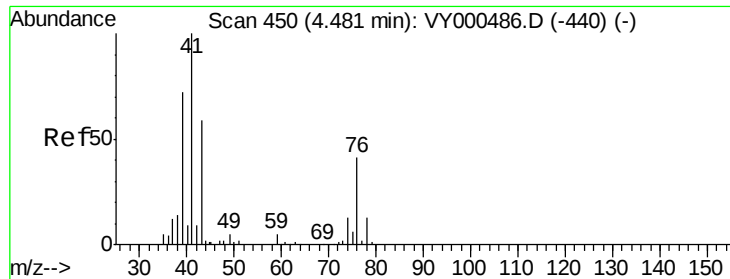
58 0.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

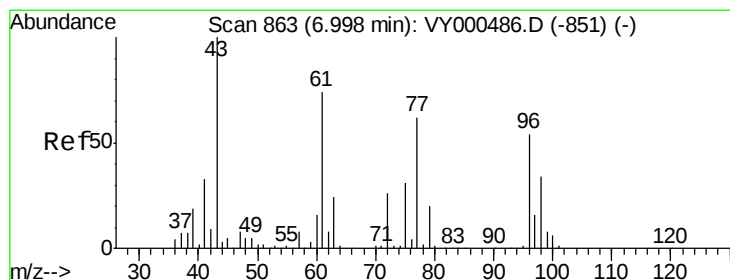
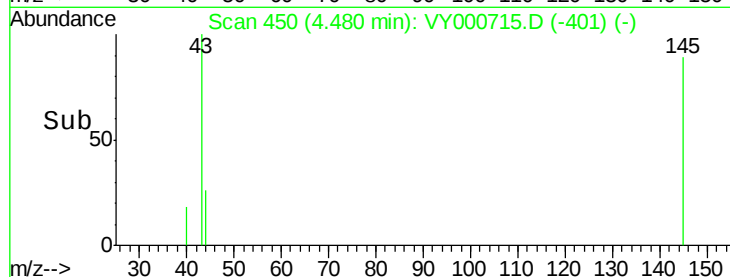
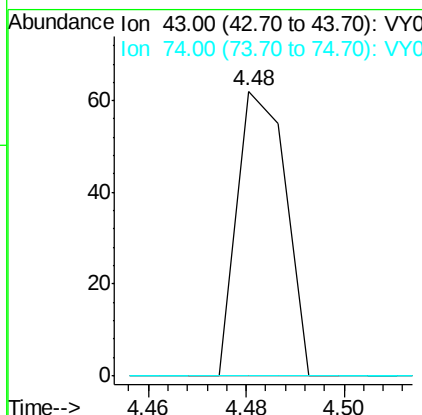
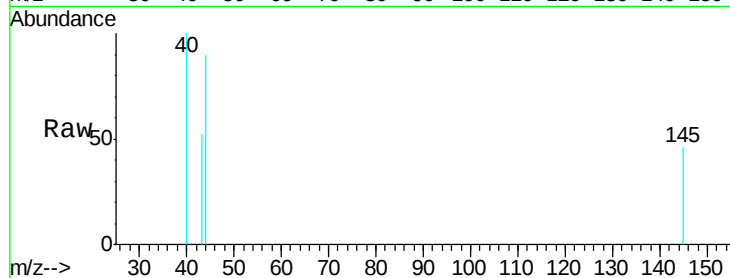




#18
Methyl Acetate
Concen: 1.146 ug/l
RT: 4.48 min Scan# 450
Delta R.T. -0.00 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

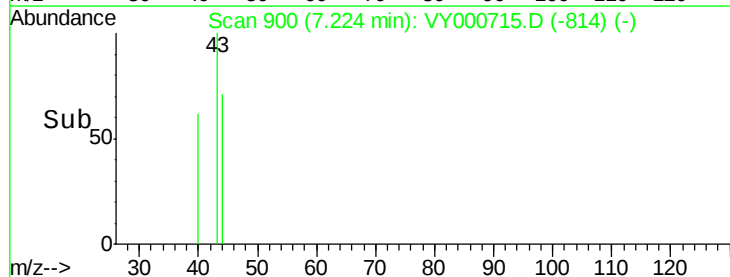
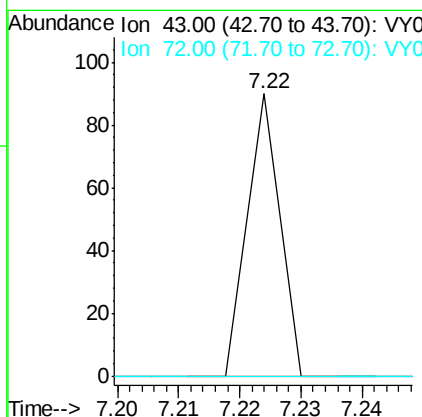
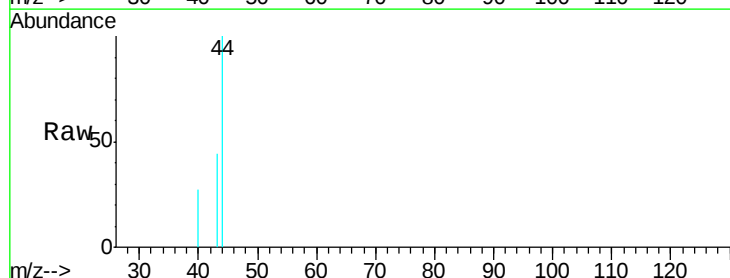
Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

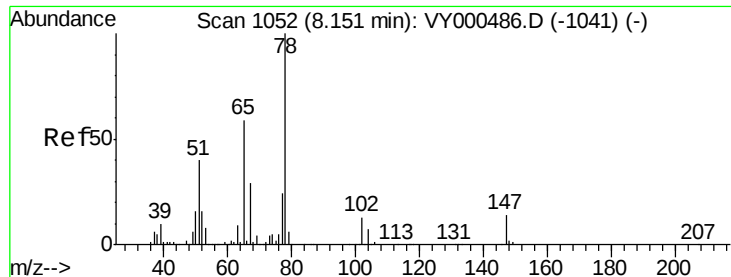
Tgt Ion: 43 Resp: 43
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#25
2-Butanone
Concen: 1.714 ug/l
RT: 7.22 min Scan# 900
Delta R.T. 0.23 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

Tgt Ion: 43 Resp: 33
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#





#33

1,2-Dichloroethane-d4

Concen: 90.988 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

Instrument :

MSVOA_Y

ClientSampleId :

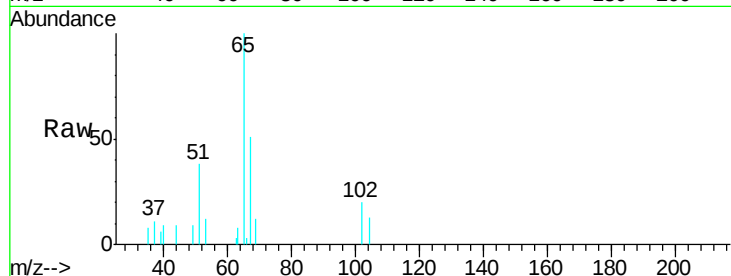
EP-8RE

Tgt Ion: 65 Resp: 3983

Ion Ratio Lower Upper

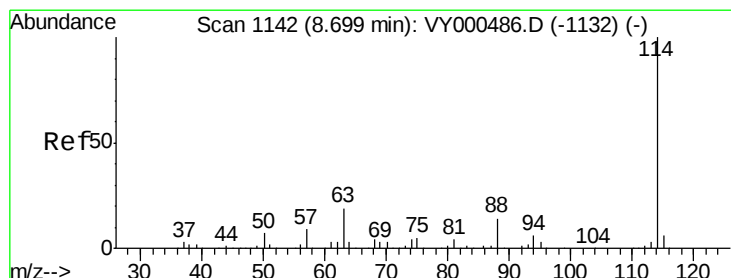
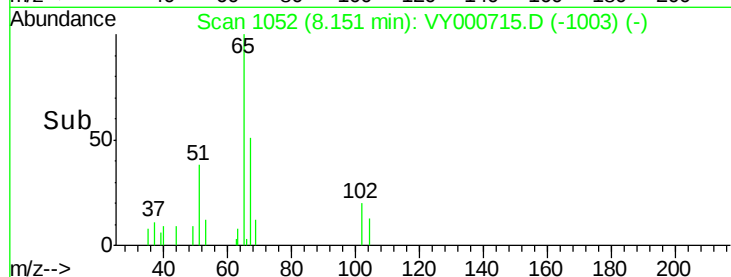
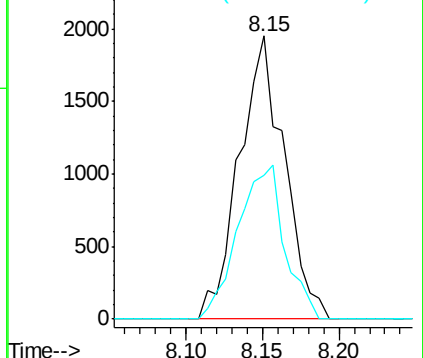
65 100

67 56.5 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: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

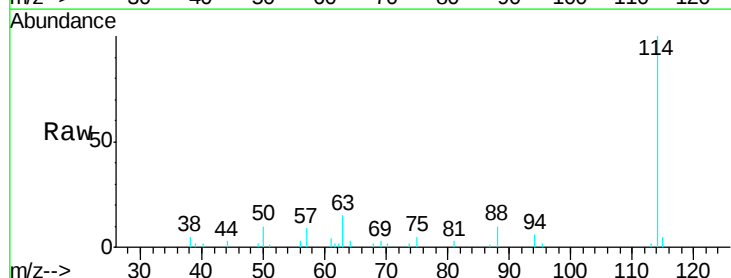
Tgt Ion: 114 Resp: 9014

Ion Ratio Lower Upper

114 100

63 14.5 0.0 38.0

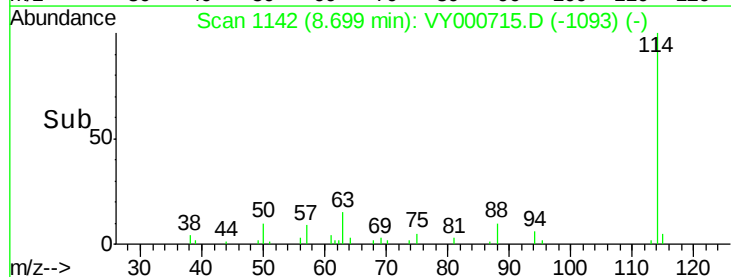
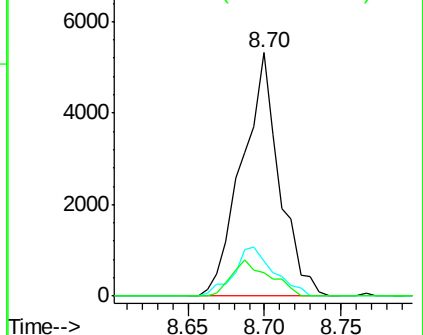
88 9.8 0.0 28.6

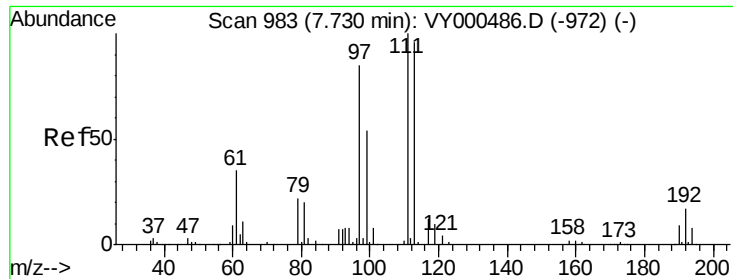


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

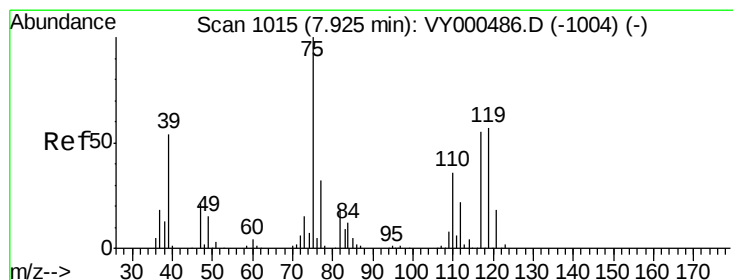
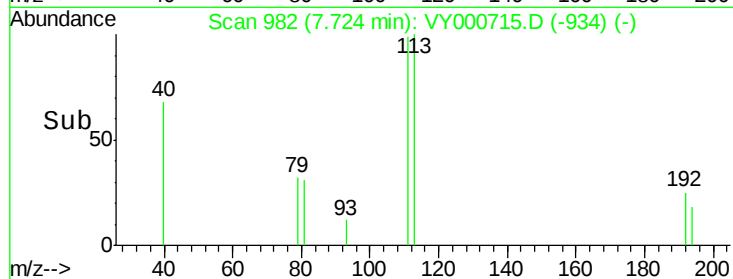
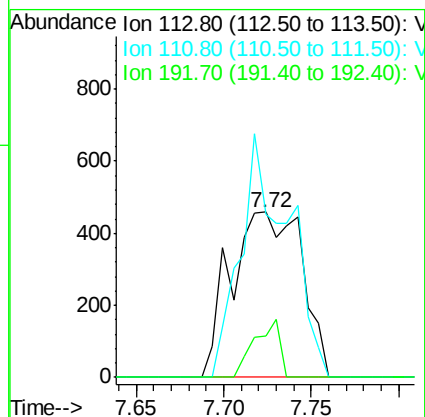
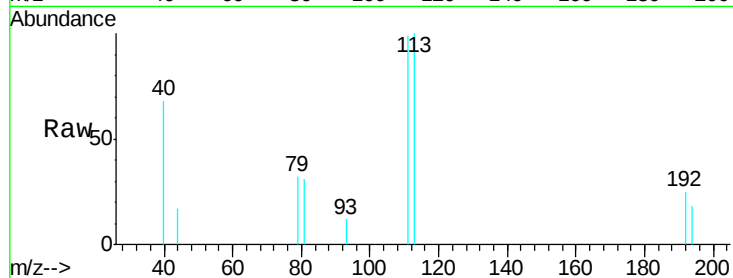




#35
 Dibromofluoromethane
 Concen: 24.623 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: VY000715.D
 Acq: 15 Nov 2019 20:24

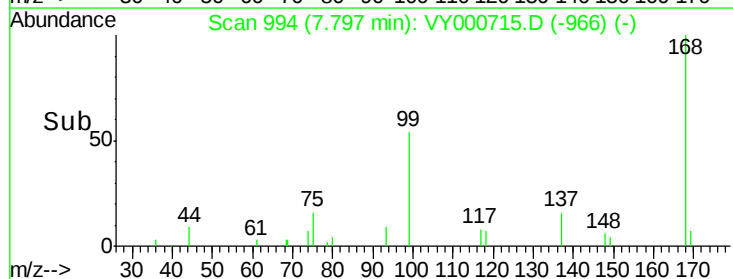
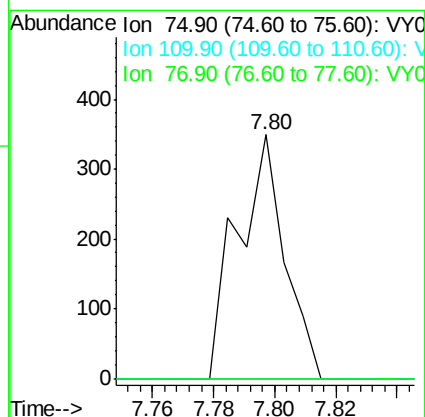
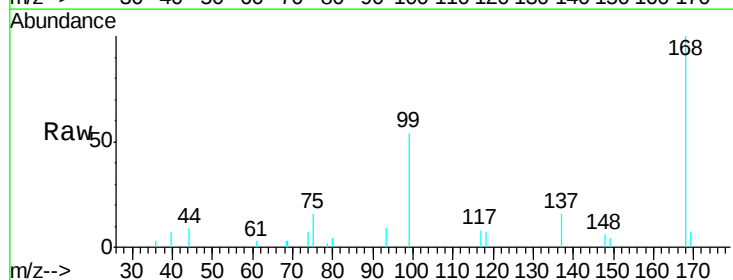
Instrument :
 MSVOA_Y
 ClientSampled :
 EP-8RE

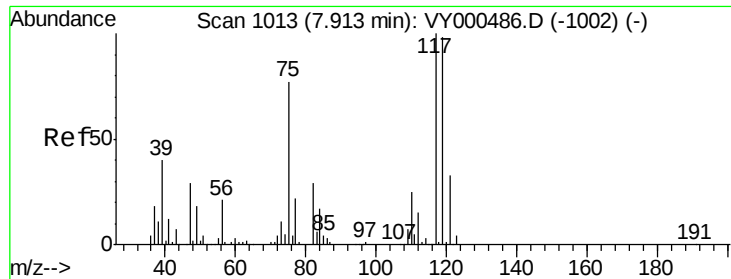
Tgt Ion:113 Resp: 1303
 Ion Ratio Lower Upper
 113 100
 111 98.2 81.7 122.5
 192 12.4 15.0 22.4#



#36
 1,1-Dichloropropene
 Concen: 4.401 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000715.D
 Acq: 15 Nov 2019 20:24

Tgt Ion: 75 Resp: 375
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.1#
 77 0.0 25.0 37.6#

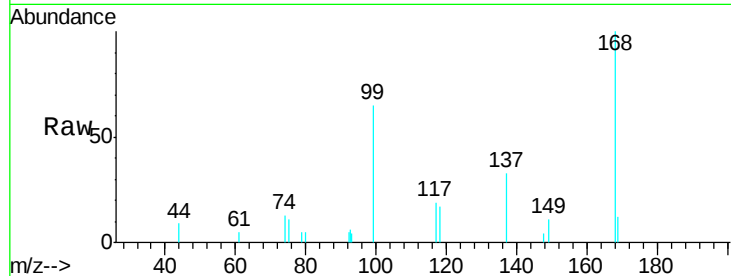




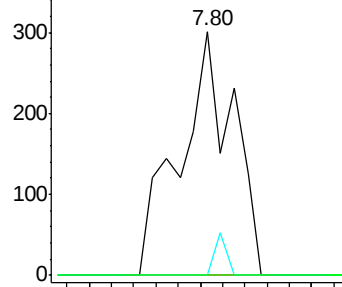
#38
Carbon Tetrachloride
Concen: 6.122 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.11 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

Instrument :
MSVOA_Y
ClientSampled :
EP-8RE

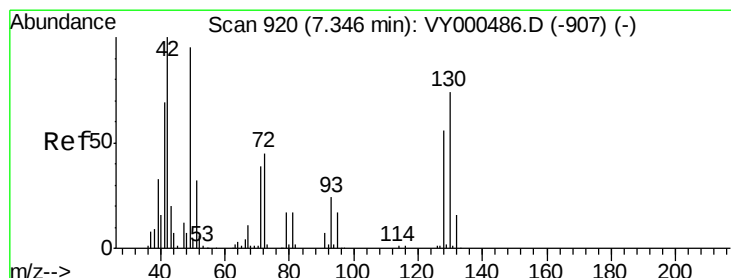
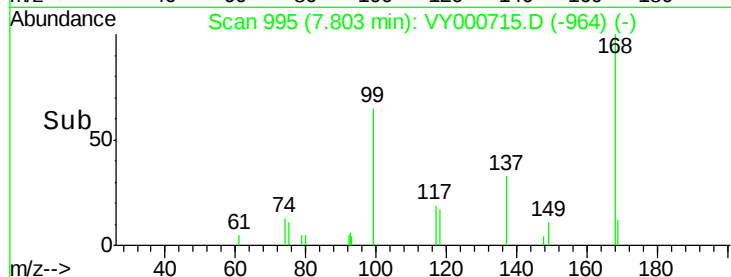
Tgt Ion:117 Resp: 502
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 26.6 40.0#



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

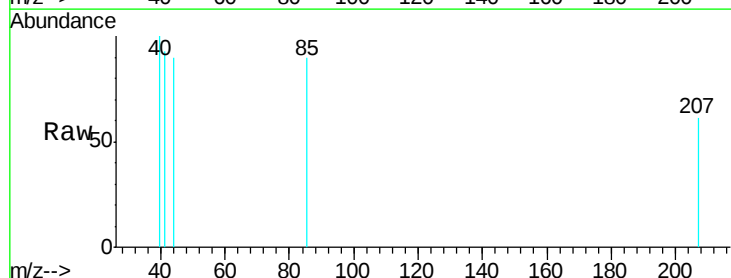


Time-->

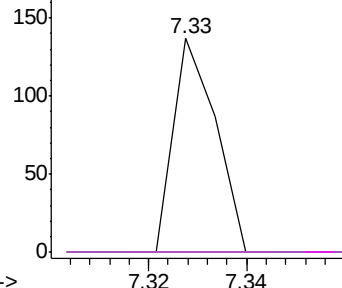


#41
Methacrylonitrile
Concen: 2.905 ug/l
RT: 7.33 min Scan# 917
Delta R.T. -0.02 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

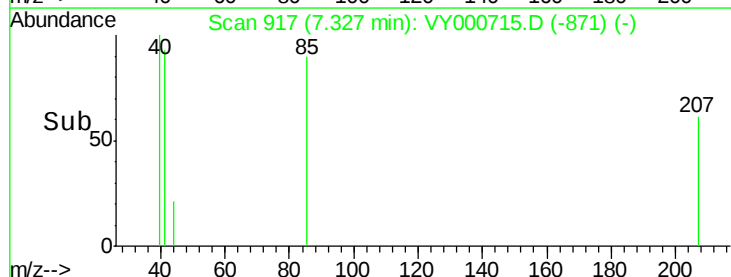
Tgt Ion: 41 Resp: 82
Ion Ratio Lower Upper
41 100
39 0.0 68.2 102.4#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

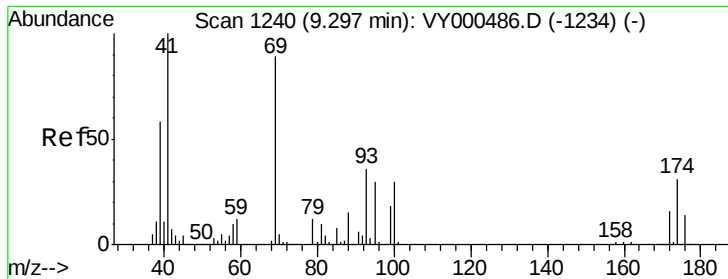


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0



Time-->

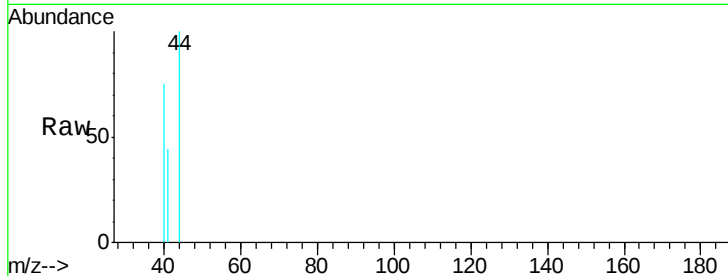




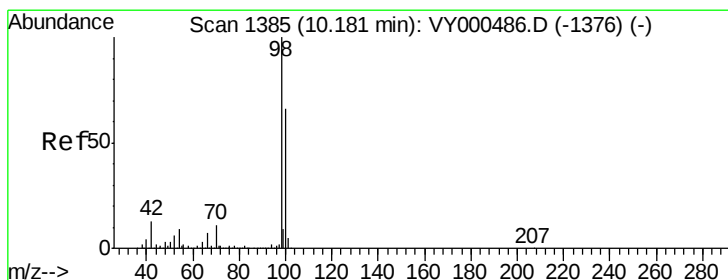
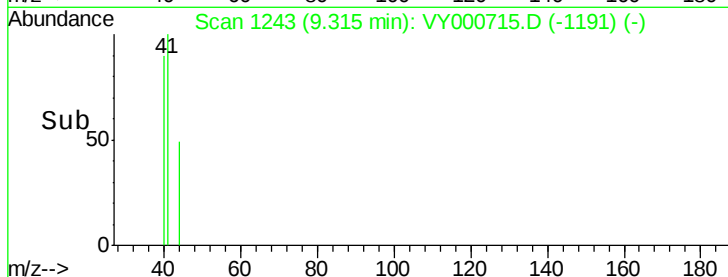
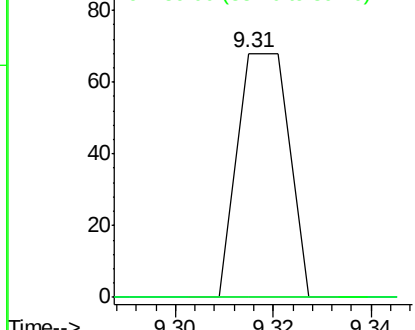
#48
Methyl methacrylate
Concen: 1.204 ug/l
RT: 9.31 min Scan# 1243
Delta R.T. 0.02 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

Tgt Ion: 41 Resp: 50
Ion Ratio Lower Upper
41 100
69 0.0 72.5 108.7#
39 0.0 47.8 71.8#

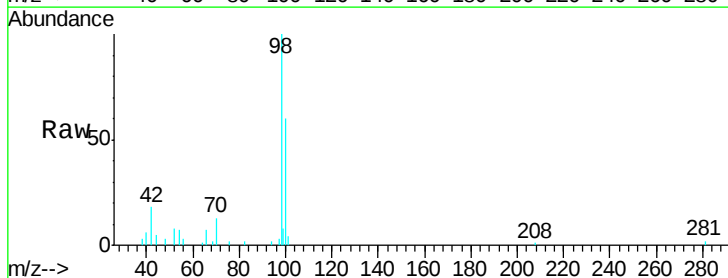


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 39.00 (38.70 to 39.70): VY0

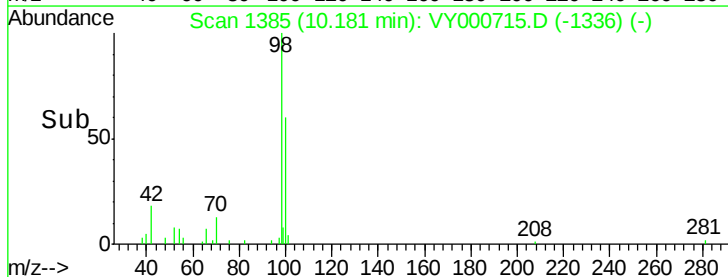
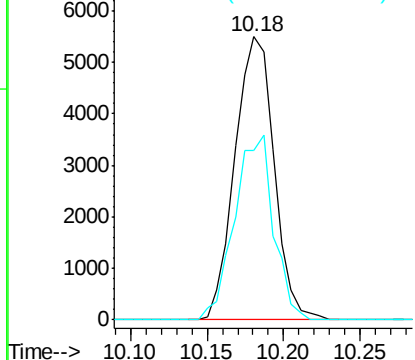


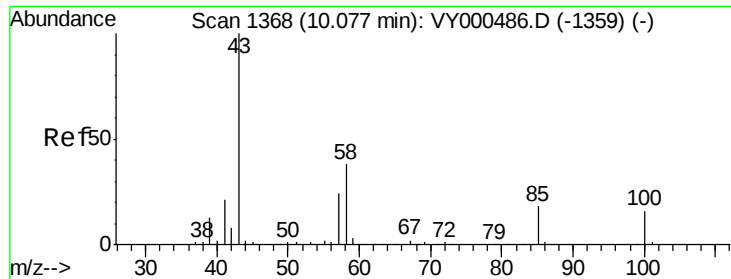
#50
Toluene-d8
Concen: 48.756 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

Tgt Ion: 98 Resp: 9790
Ion Ratio Lower Upper
98 100
100 64.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0

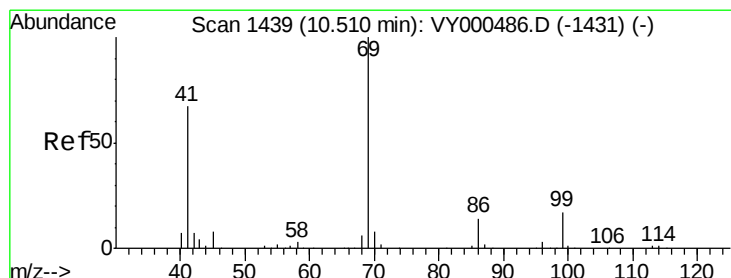
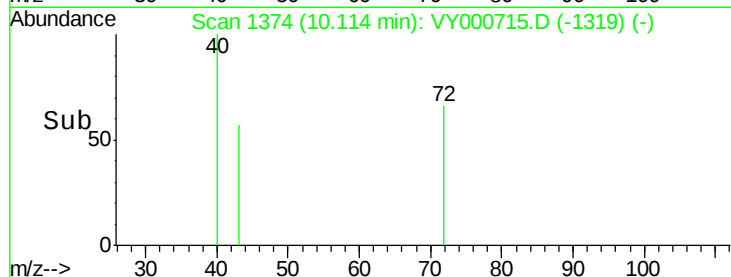
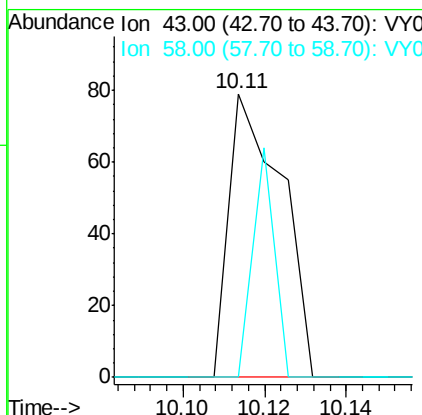
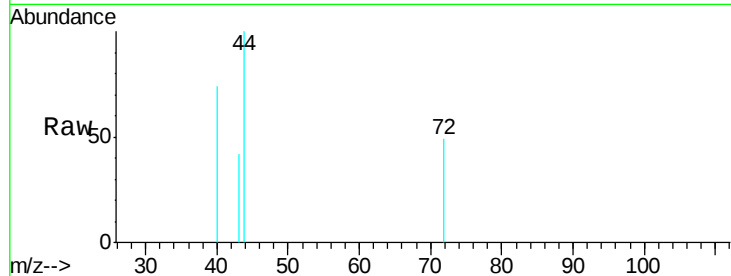




#51
4-Methyl-2-Pentanone
Concen: 1.405 ug/l
RT: 10.11 min Scan# 1374
Delta R.T. 0.04 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

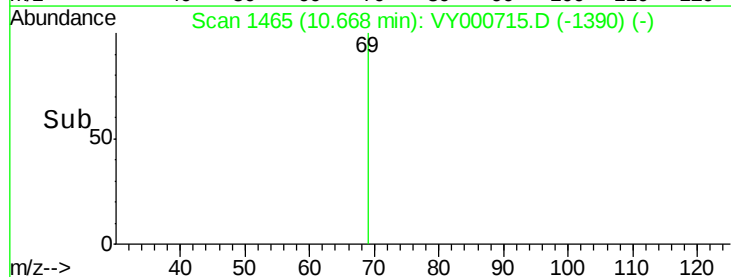
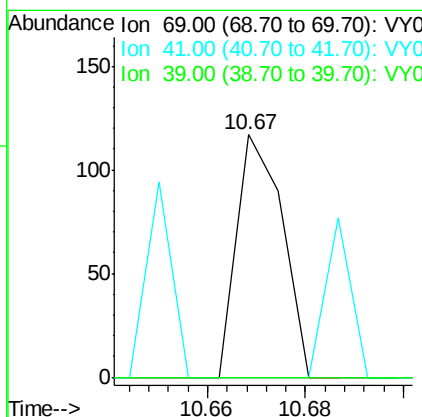
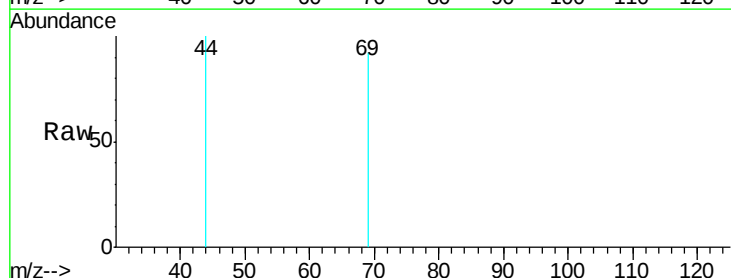
Instrument :
MSVOA_Y
ClientSampled :
EP-8RE

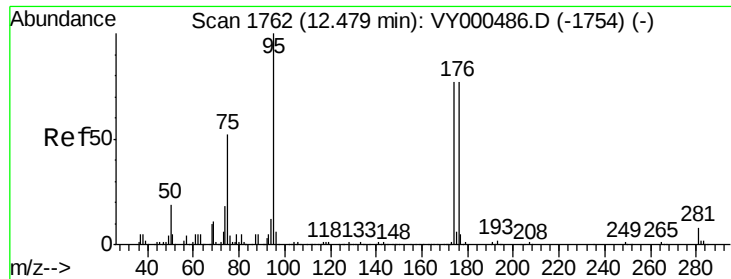
Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
58 32.4 30.2 45.4



#56
Ethyl methacrylate
Concen: 1.096 ug/l
RT: 10.67 min Scan# 1465
Delta R.T. 0.16 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

Tgt Ion: 69 Resp: 76
Ion Ratio Lower Upper
69 100
41 36.8 53.3 79.9#
39 0.0 28.0 42.0#

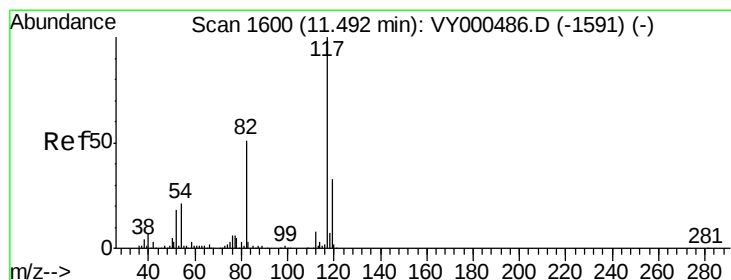
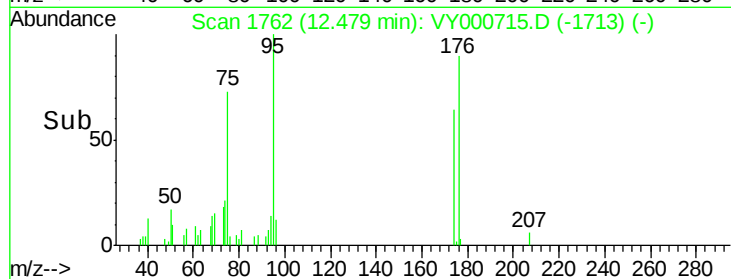
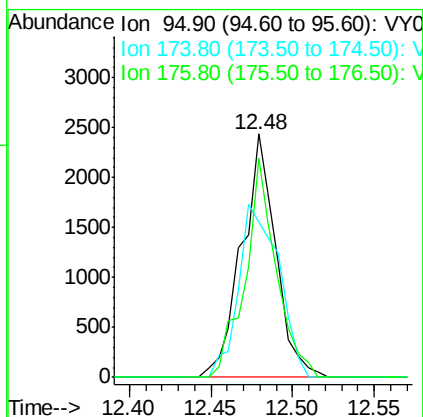
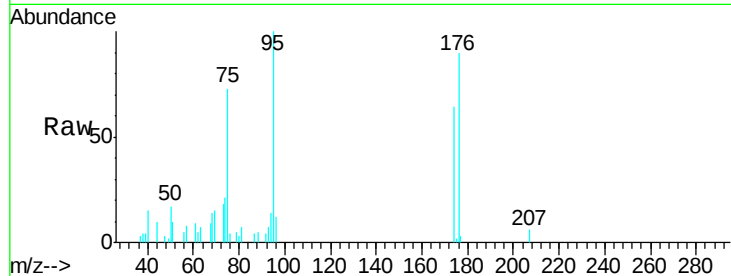




#62
4-Bromofluorobenzene
Concen: 46.336 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

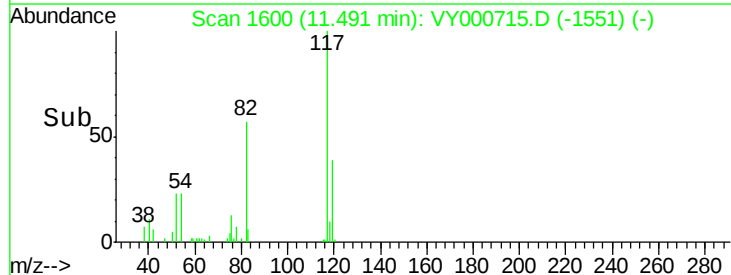
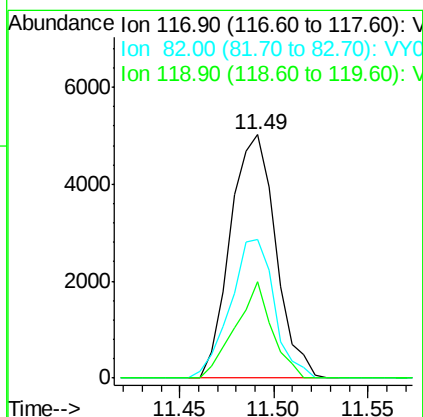
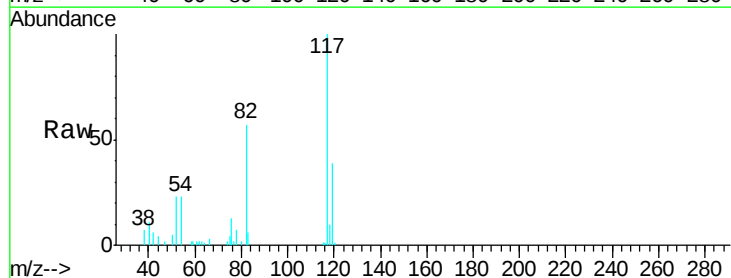
Instrument :
MSVOA_Y
ClientSampleId :
EP-8RE

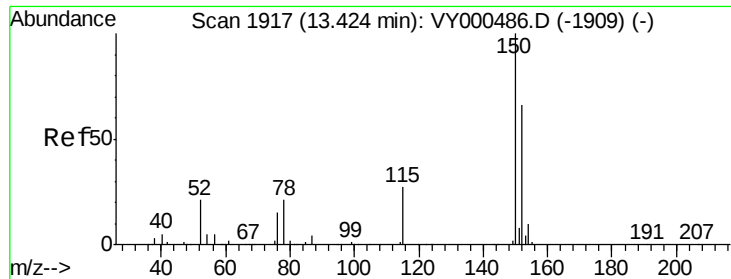
Tgt Ion: 95 Resp: 3542
Ion Ratio Lower Upper
95 100
174 83.9 0.0 161.6
176 82.3 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY000715.D
Acq: 15 Nov 2019 20:24

Tgt Ion: 117 Resp: 8379
Ion Ratio Lower Upper
117 100
82 57.0 40.8 61.2
119 39.4 26.2 39.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

Instrument :

MSVOA_Y

ClientSampleId :

EP-8RE

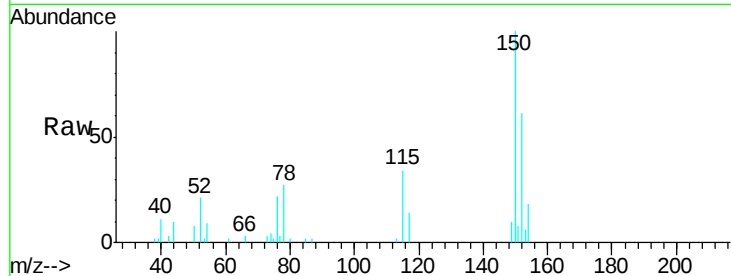
Tgt Ion:152 Resp: 4106

Ion Ratio Lower Upper

152 100

115 60.1 29.1 87.4

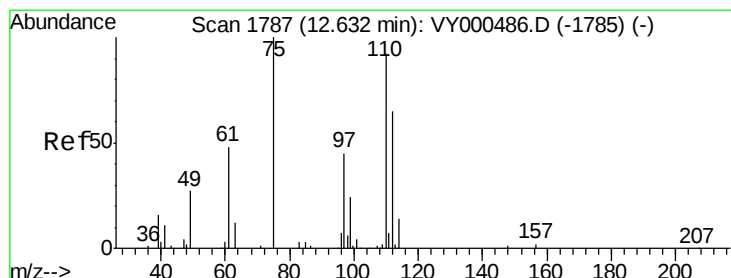
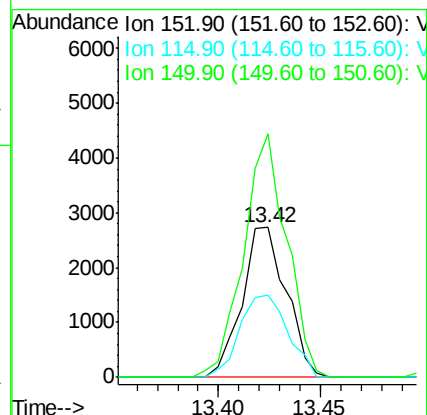
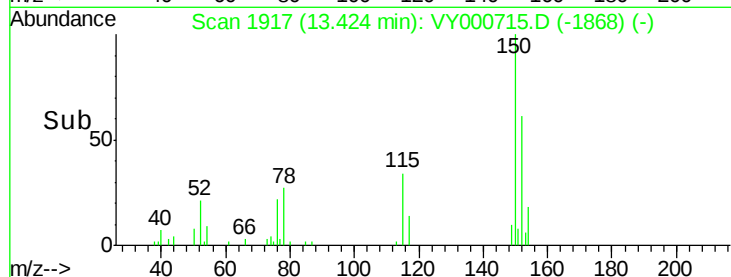
150 158.6 0.0 348.8



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: 52.660 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000715.D

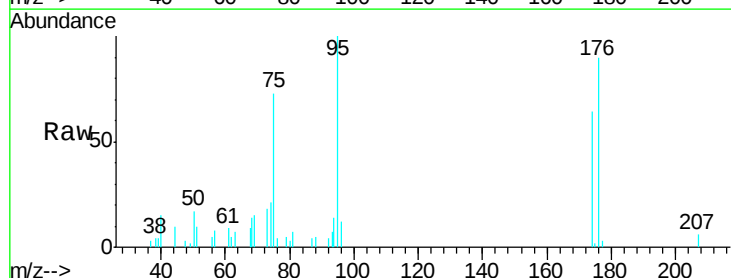
Acq: 15 Nov 2019 20:24

Tgt Ion: 75 Resp: 2462

Ion Ratio Lower Upper

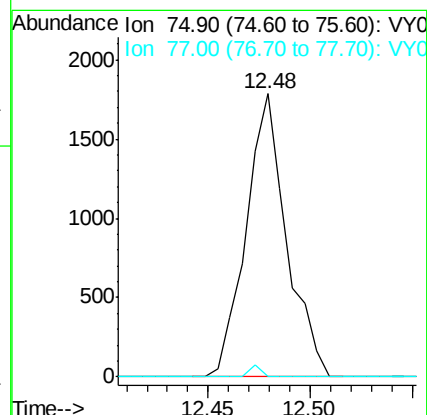
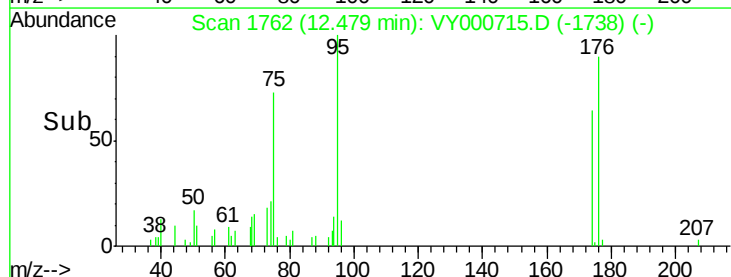
75 100

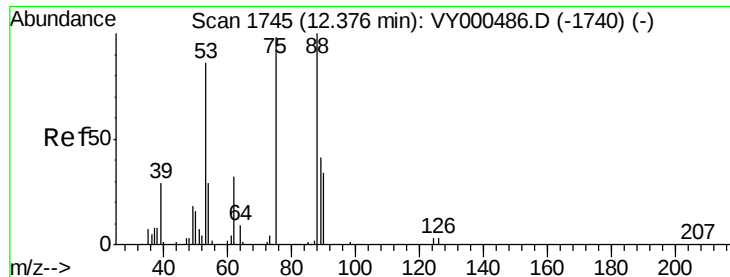
77 1.1 0.0 0.0#



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: 118.072 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

Instrument :

MSVOA_Y

ClientSampleId :

EP-8RE

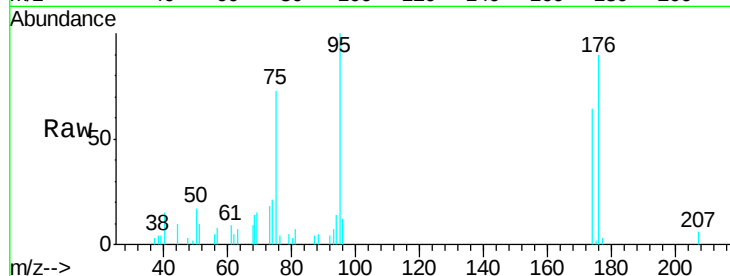
Tgt Ion: 75 Resp: 2462

Ion Ratio Lower Upper

75 100

53 0.0 73.2 109.8#

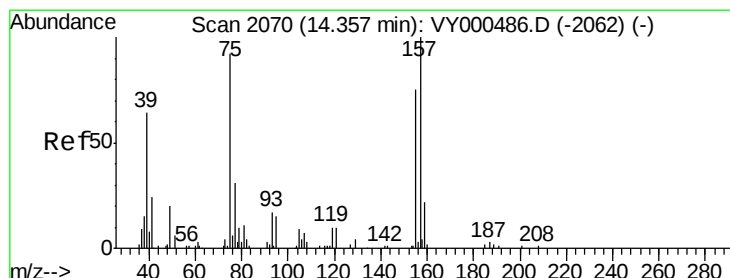
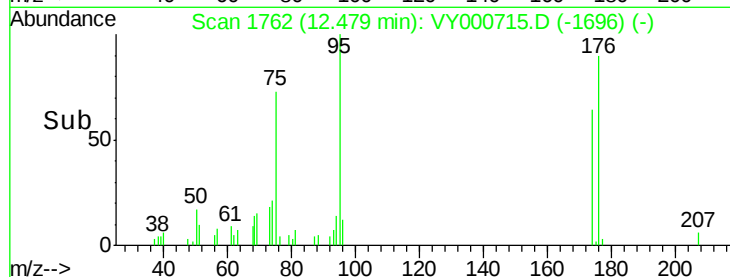
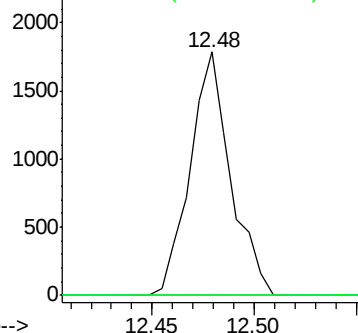
89 0.0 35.9 53.9#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.172 ug/l

RT: 14.41 min Scan# 2079

Delta R.T. 0.05 min

Lab File: VY000715.D

Acq: 15 Nov 2019 20:24

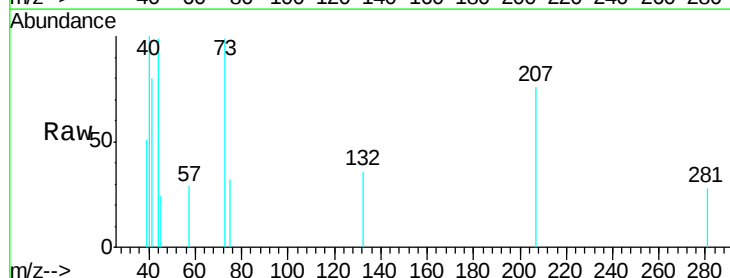
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 42.4 127.1#

157 0.0 55.1 165.3#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

