

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110320\
 Data File : VY003489.D
 Acq On : 03 Nov 2020 14:02
 Operator : SY/MD
 Sample : L4541-09
 Misc : 5.10G/5ML/MSVOA Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 2015

Quant Time: Nov 04 00:23:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y110220S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 02 12:40:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	4064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	6030	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	4490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	1549	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	2428	58.28	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	116.56%	
35) Dibromofluoromethane	7.72	113	1729	47.12	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	94.24%	
50) Toluene-d8	10.18	98	6953	45.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.10%	
62) 4-Bromofluorobenzene	12.48	95	1646	32.54	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	65.08%	

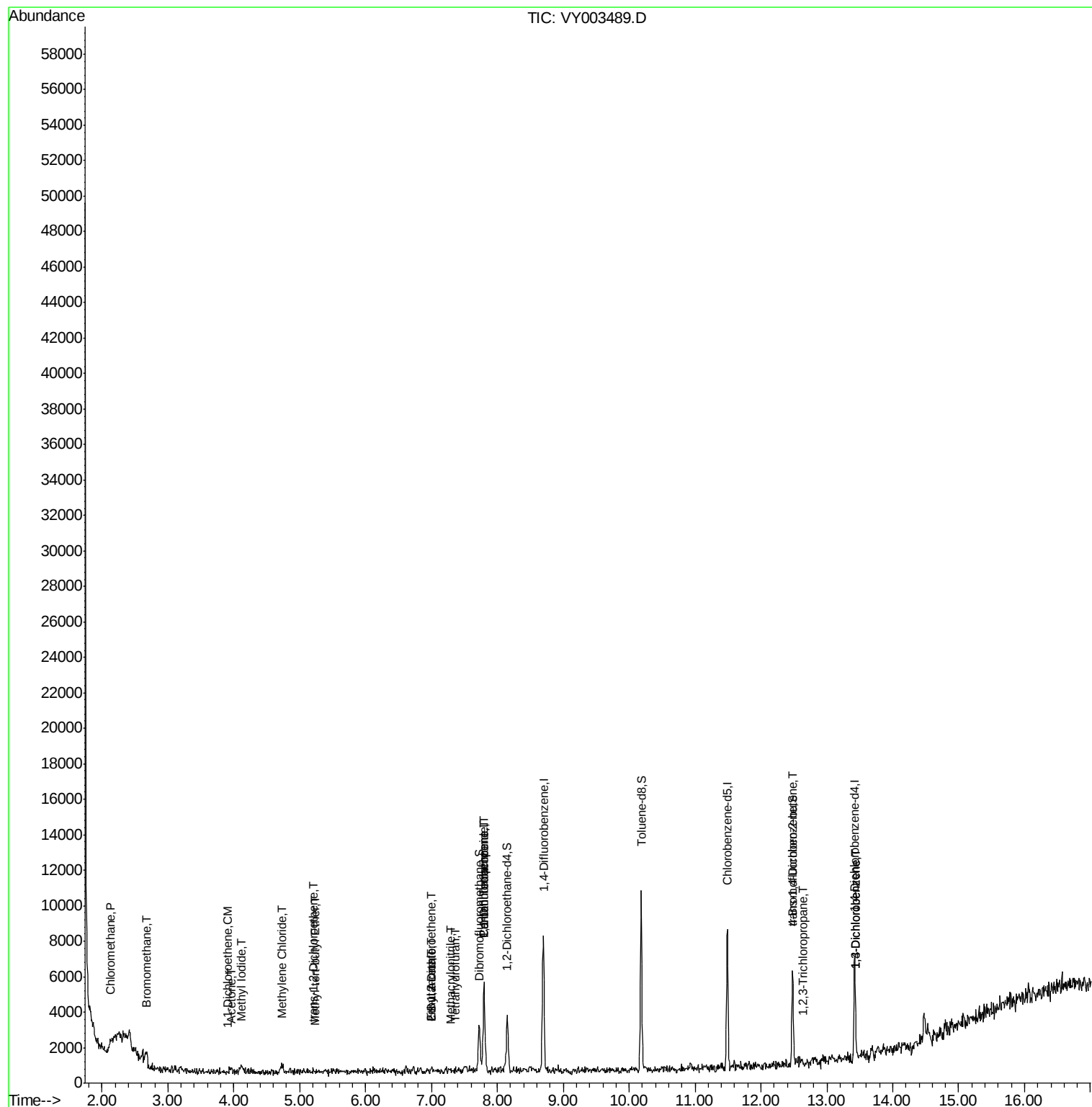
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.12	50	107	2.528	ug/l #	43
5) Bromomethane	2.68	94	271	6.826	ug/l	98
10) Methyl Iodide	4.12	142	681	22.675	ug/l #	85
12) 1,1-Dichloroethene	3.91	96	38	1.146	ug/l #	1
16) Acetone	3.96	43	391	28.449	ug/l #	43
19) Methyl tert-butyl Ether	5.23	73	84	1.023	ug/l #	54
20) Methylene Chloride	4.72	84	323	8.345	ug/l #	52
21) trans-1,2-Dichloroethene	5.21	96	49	1.276	ug/l #	1
25) 2-Butanone	7.00	43	44	2.560	ug/l #	50
27) cis-1,2-Dichloroethene	7.00	96	59	1.418	ug/l #	1
29) Tetrahydrofuran	7.37	42	50	5.567	ug/l #	35
36) 1,1-Dichloropropene	7.80	75	256	4.503	ug/l #	41
37) Ethyl Acetate	7.00	43	44	1.246	ug/l #	69
38) Carbon Tetrachloride	7.80	117	385	6.528	ug/l #	12
41) Methacrylonitrile	7.30	41	21	1.114	ug/l #	100
76) 1,2,3-Trichloropropane	12.64	75	48	2.929	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	839	106.845	ug/l #	12
87) 1,3-Dichlorobenzene	13.44	146	165	3.445	ug/l #	25
88) 1,4-Dichlorobenzene	13.44	146	165	3.465	ug/l #	26

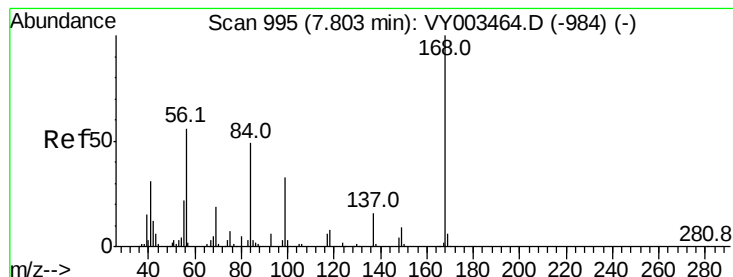
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY003489.D

Acq: 03 Nov 2020 14:02

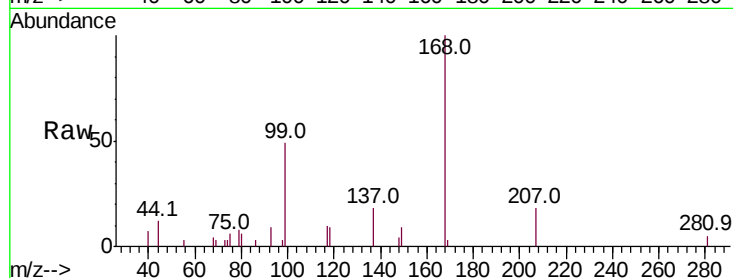
Instrument :
MSVOA_Y
ClientSampled :
2015

Tot Ion:168 Resp: 4064

Ion Ratio Lower Upper

168 100

99 48.8 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): VY003464.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY003464.D (-984) (-)

7.80

2000

1500

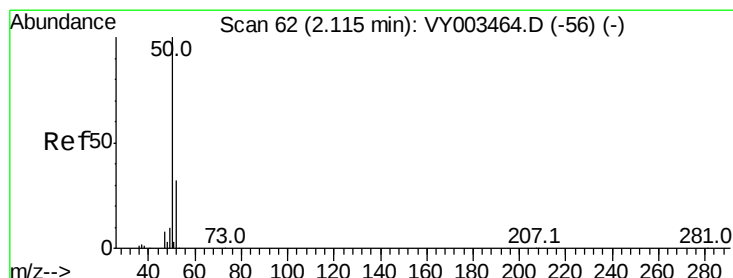
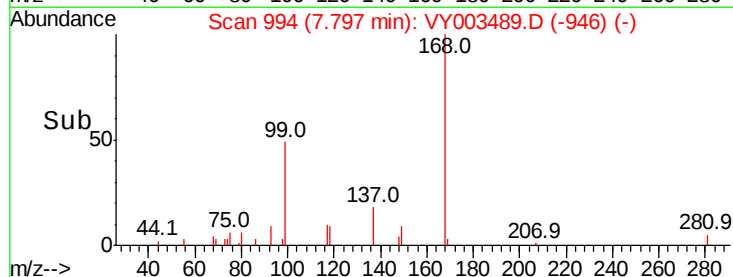
1000

500

0

7.75 7.80 7.85

Time-->



#3

Chloromethane

Concen: 2.528 ug/l

RT: 2.12 min Scan# 63

Delta R.T. 0.01 min

Lab File: VY003489.D

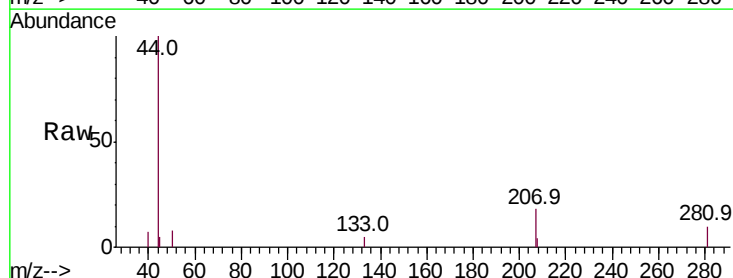
Acq: 03 Nov 2020 14:02

Tgt Ion: 50 Resp: 107

Ion Ratio Lower Upper

50 100

52 0.0 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VY003464.D (-56) (-)

Ion 51.90 (51.60 to 52.60): VY003464.D (-56) (-)

2.12

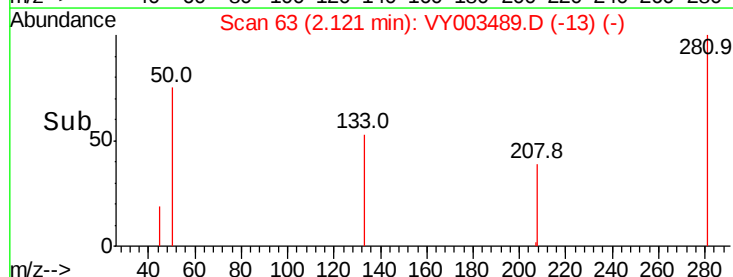
100

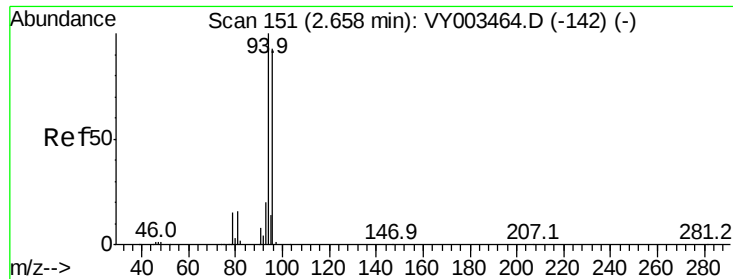
50

0

2.10 2.12 2.14

Time-->





#5

Bromomethane

Concen: 6.826 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.02 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

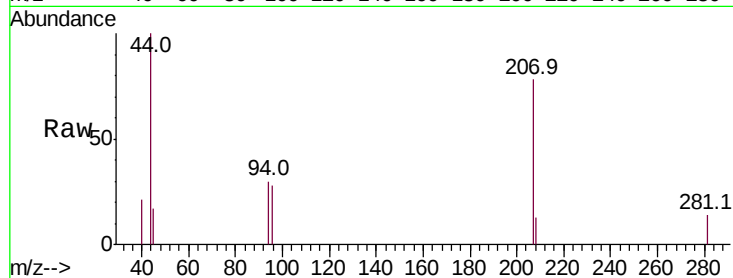
Instrument :
MSVOA_Y
ClientSampled :
2015

Tot Ion: 94 Resp: 271

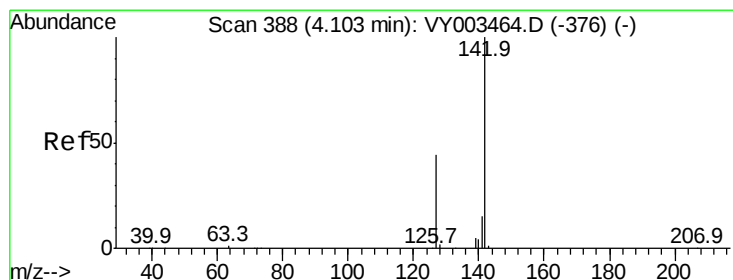
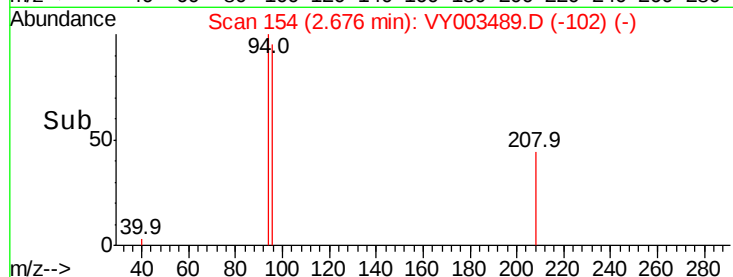
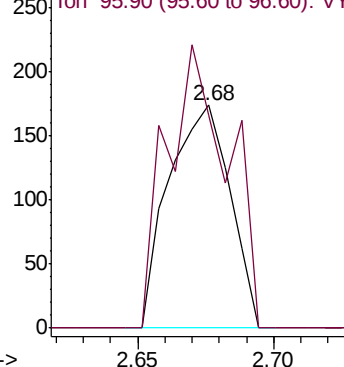
Ion Ratio Lower Upper

94 100

96 95.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VY0
Ion 95.90 (95.60 to 96.60): VY0



#10

Methyl Iodide

Concen: 22.675 ug/l

RT: 4.12 min Scan# 391

Delta R.T. 0.02 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

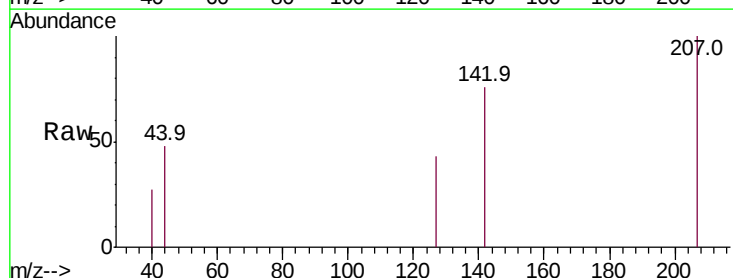
Tgt Ion: 142 Resp: 681

Ion Ratio Lower Upper

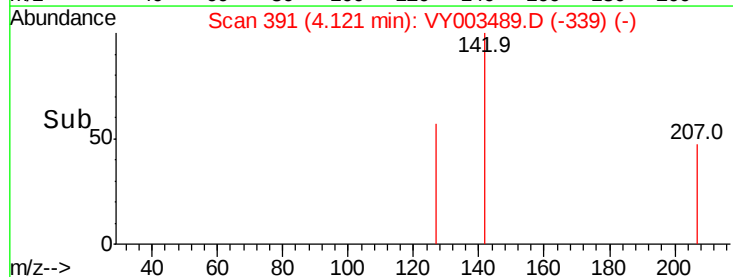
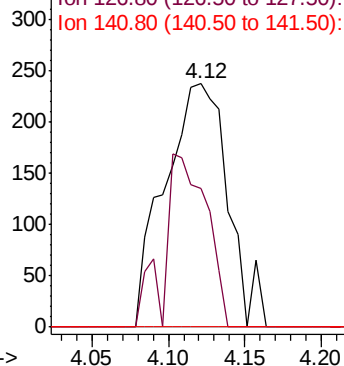
142 100

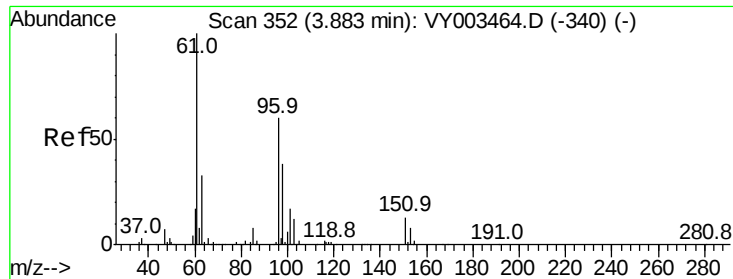
127 48.2 34.5 51.7

141 0.0 11.8 17.8#



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





#12

1,1-Dichloroethene

Concen: 1.146 ug/l

RT: 3.91 min Scan# 356

Delta R.T. 0.02 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :
MSVOA_Y
ClientSampleId :
2015

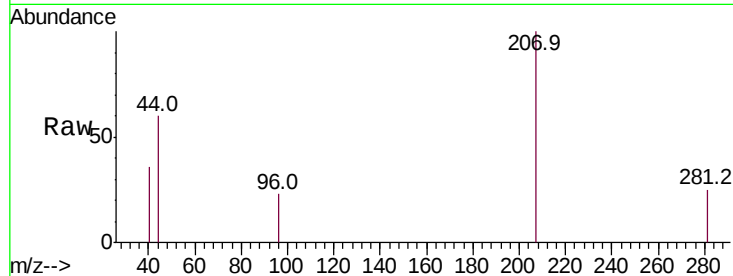
Tot Ion: 96 Resp: 38

Ion Ratio Lower Upper

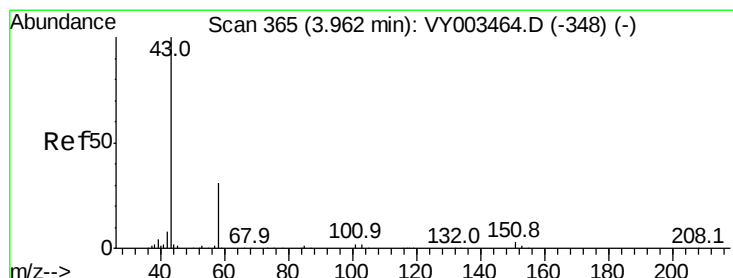
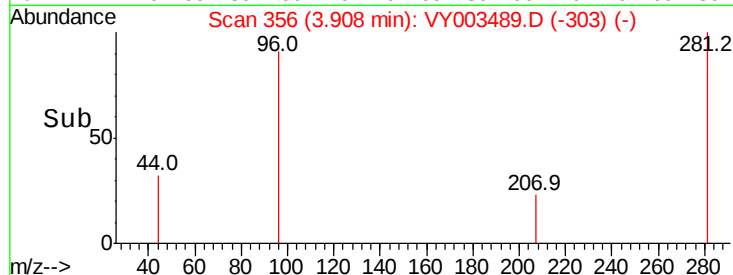
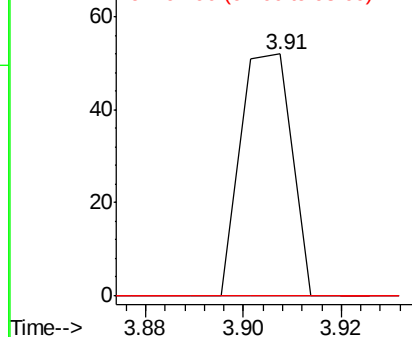
96 100

61 0.0 133.6 200.4#

98 0.0 50.2 75.2#



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



#16

Acetone

Concen: 28.449 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.01 min

Lab File: VY003489.D

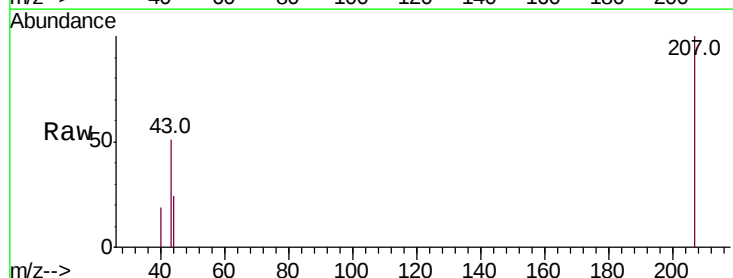
Acq: 03 Nov 2020 14:02

Tgt Ion: 43 Resp: 391

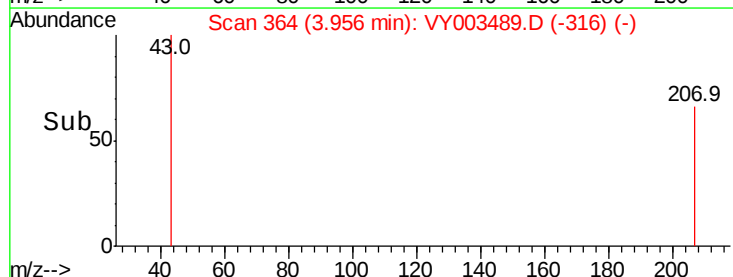
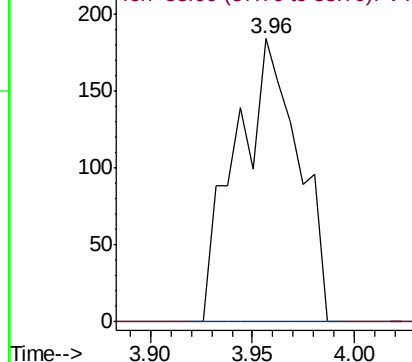
Ion Ratio Lower Upper

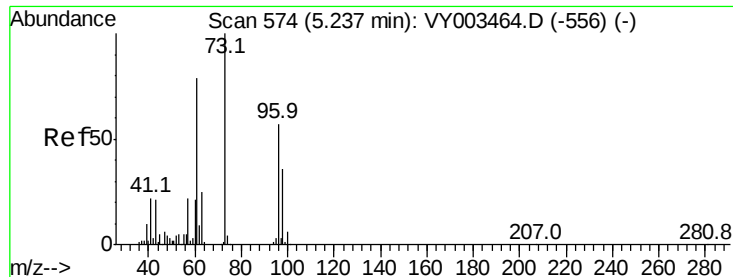
43 100

58 0.0 25.0 37.4#



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



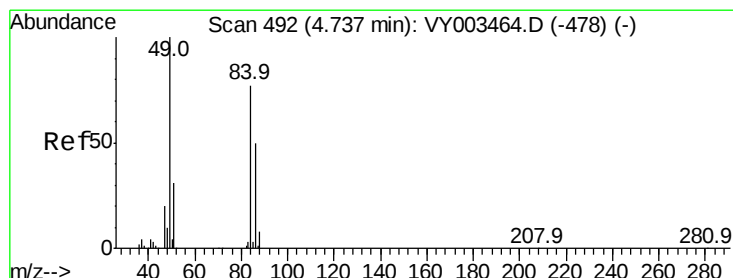
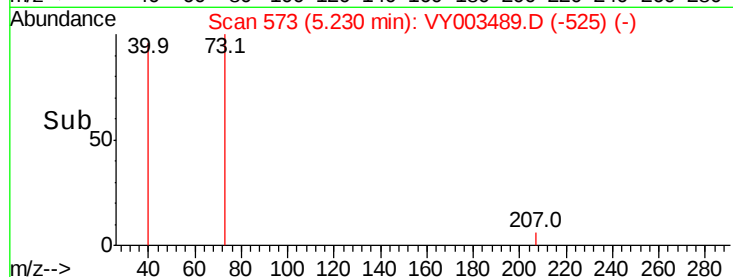
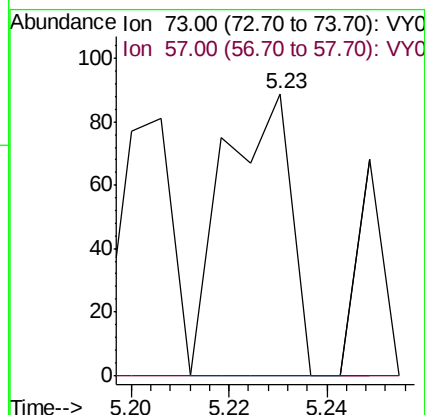
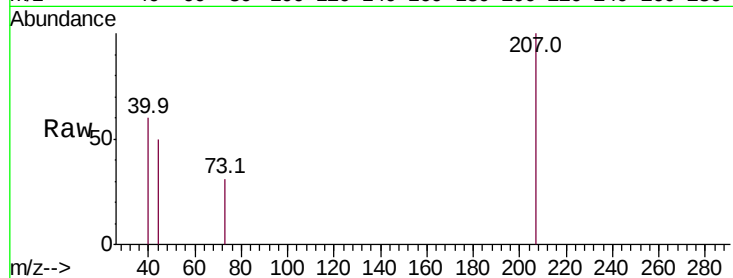


#19

Methyl tert-butyl Ether
 Concen: 1.023 ug/l
 RT: 5.23 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: VY003489.D
 Acq: 03 Nov 2020 14:02

Instrument :
 MSVOA_Y
 ClientSampled :
 2015

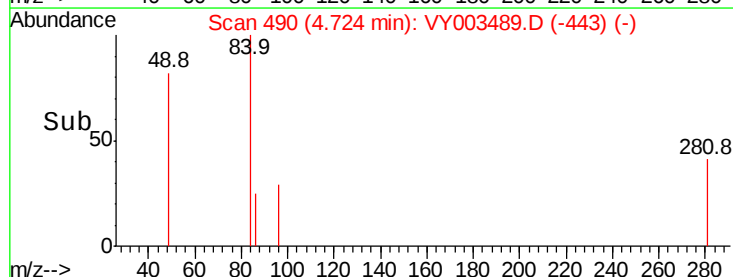
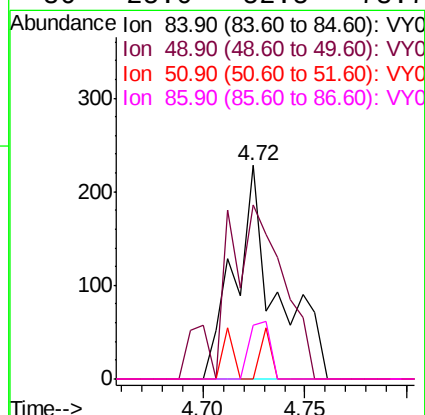
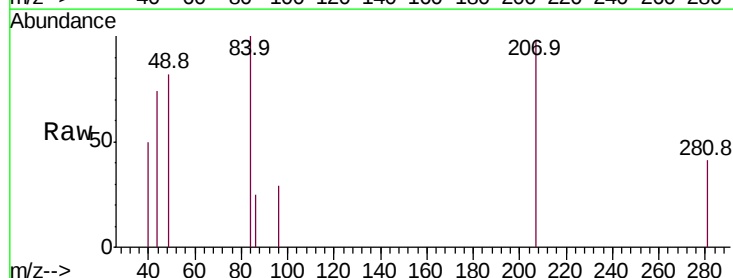
Tot Ion: 73 Resp: 84
 Ion Ratio Lower Upper
 73 100
 57 0.0 17.2 25.8#

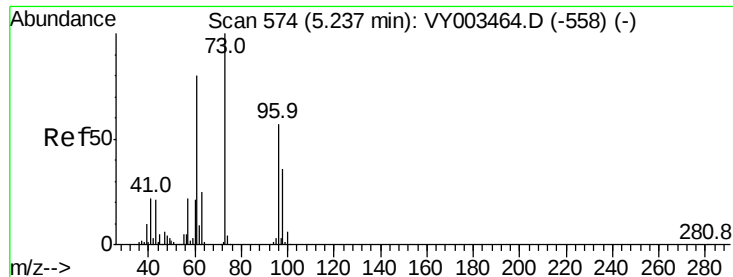


#20

Methylene Chloride
 Concen: 8.345 ug/l
 RT: 4.72 min Scan# 490
 Delta R.T. -0.01 min
 Lab File: VY003489.D
 Acq: 03 Nov 2020 14:02

Tgt Ion: 84 Resp: 323
 Ion Ratio Lower Upper
 84 100
 49 81.6 104.3 156.5#
 51 0.0 32.5 48.7#
 86 25.0 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 1.276 ug/l

RT: 5.21 min Scan# 569

Delta R.T. -0.03 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :

MSVOA_Y

ClientSampled :

2015

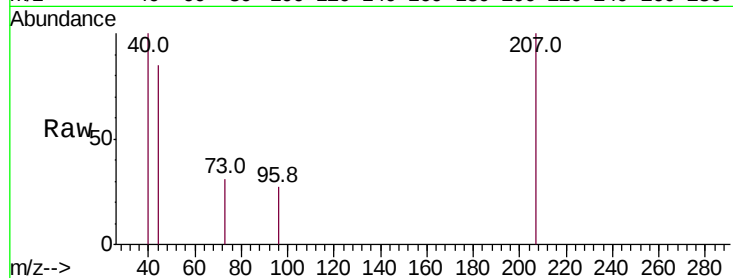
Tot Ion: 96 Resp: 49

Ion Ratio Lower Upper

96 100

61 0.0 111.3 166.9#

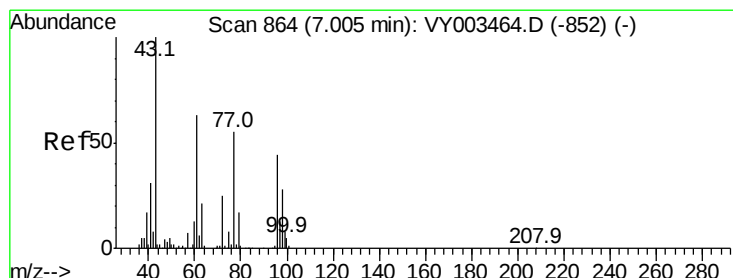
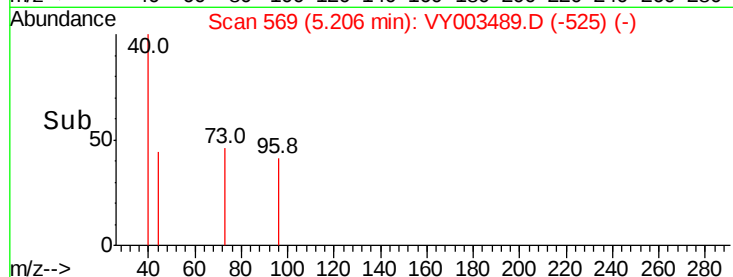
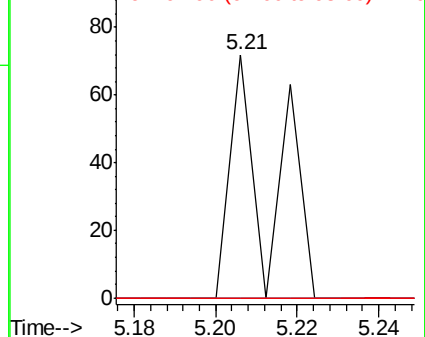
98 0.0 50.3 75.5#



Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0



#25

2-Butanone

Concen: 2.560 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY003489.D

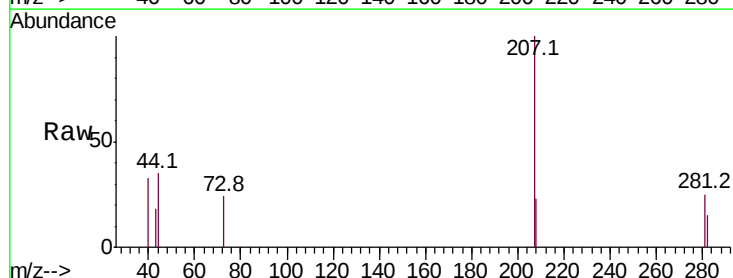
Acq: 03 Nov 2020 14:02

Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

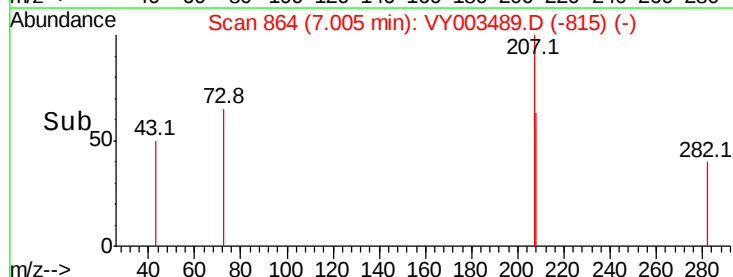
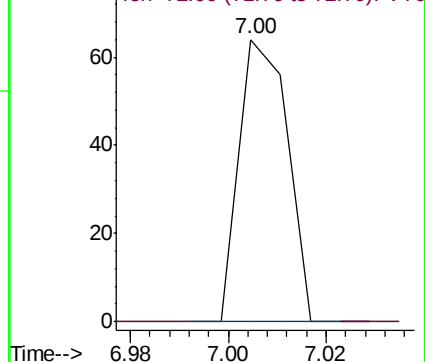
43 100

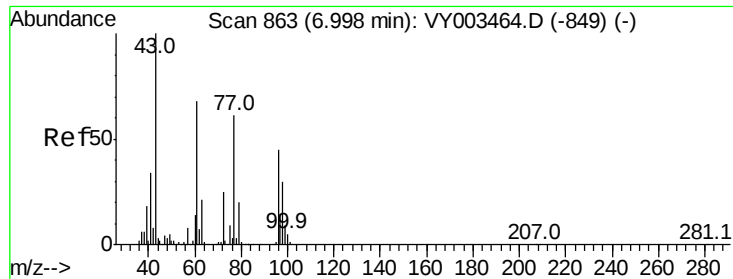
72 0.0 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



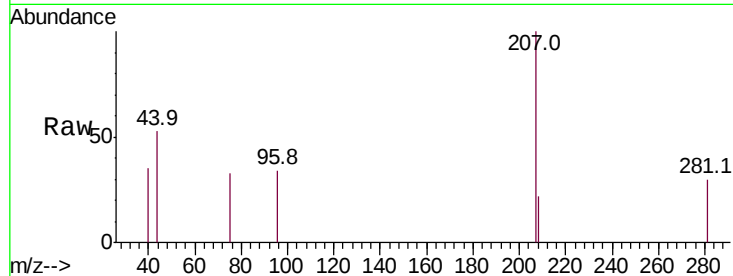


#27

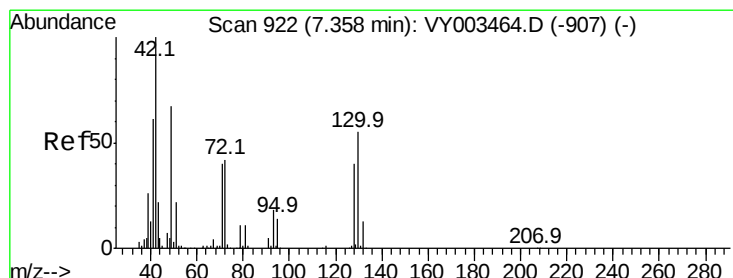
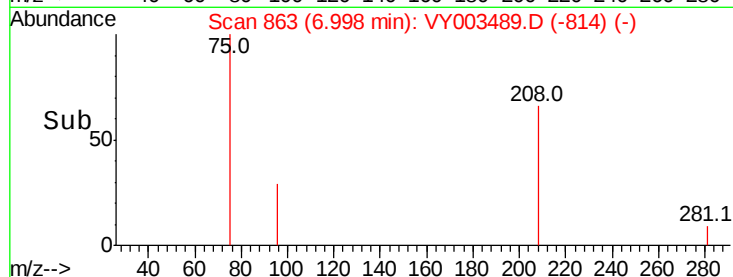
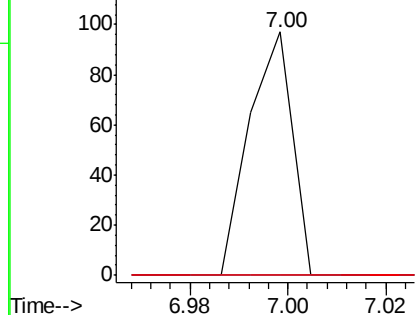
cis-1,2-Dichloroethene
 Concen: 1.418 ug/l
 RT: 7.00 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VY003489.D
 Acq: 03 Nov 2020 14:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 2015

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	299.2
98	0.0	0.0	128.6



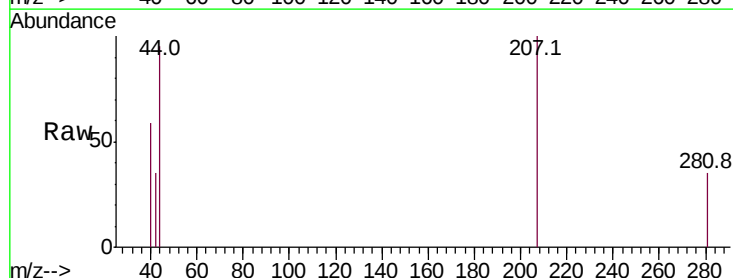
Abundance Ion 95.90 (95.60 to 96.60): VY0
 Ion 60.90 (60.60 to 61.60): VY0
 Ion 97.90 (97.60 to 98.60): VY0



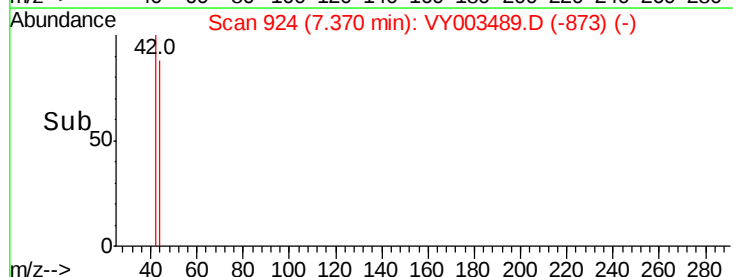
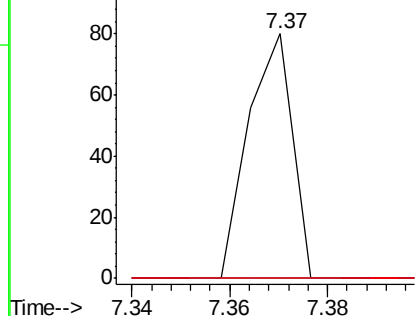
#29

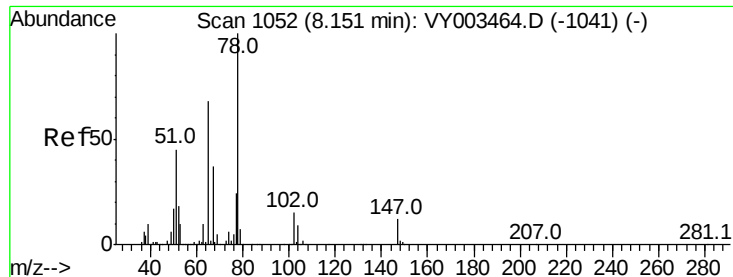
Tetrahydrofuran
 Concen: 5.567 ug/l
 RT: 7.37 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VY003489.D
 Acq: 03 Nov 2020 14:02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.8	49.2#
71	0.0	30.7	46.1#



Abundance Ion 42.00 (41.70 to 42.70): VY0
 Ion 72.00 (71.70 to 72.70): VY0
 Ion 71.00 (70.70 to 71.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 58.276 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :

MSVOA_Y

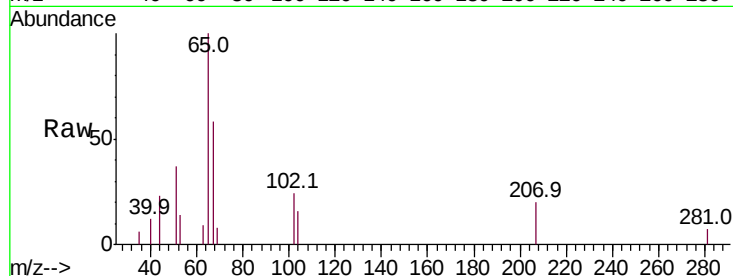
ClientSampled :
2015

Tot Ion: 65 Resp: 2428

Ion Ratio Lower Upper

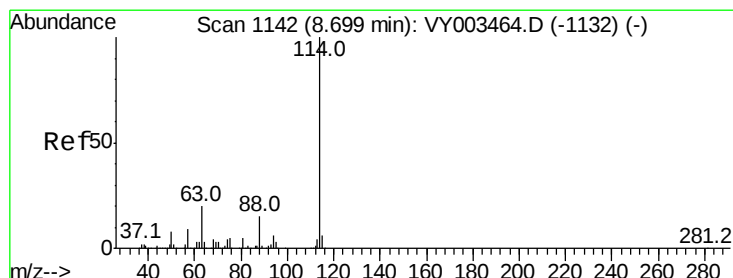
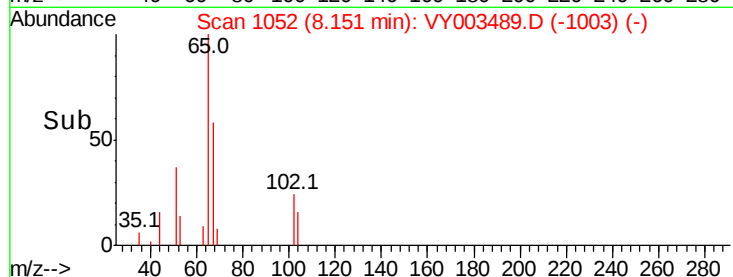
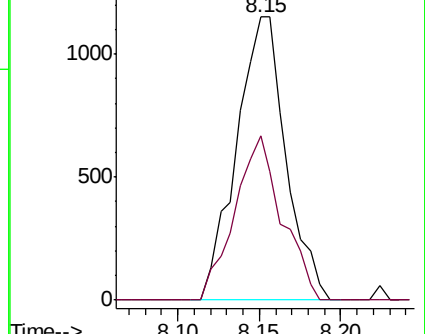
65 100

67 55.2 0.0 106.0



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: VY003489.D

Acq: 03 Nov 2020 14:02

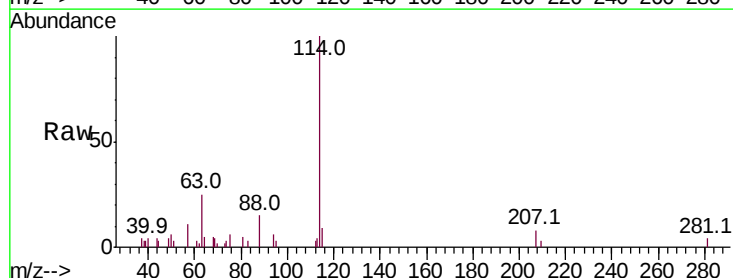
Tgt Ion: 114 Resp: 6030

Ion Ratio Lower Upper

114 100

63 24.7 0.0 40.6

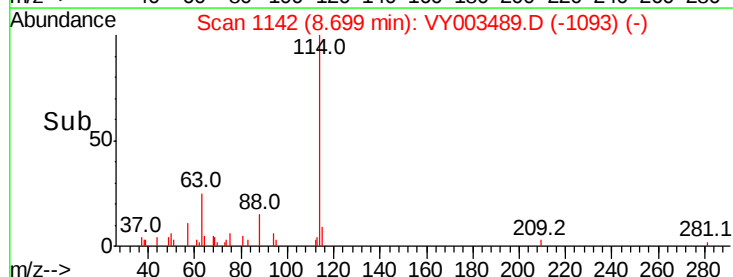
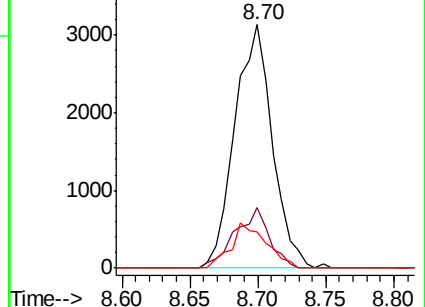
88 14.6 0.0 29.4

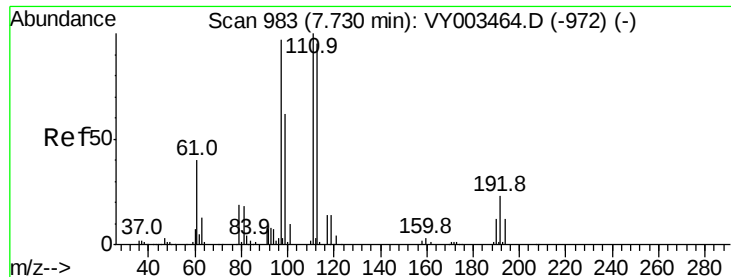


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

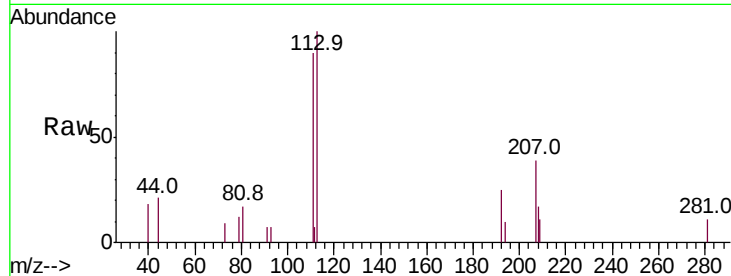




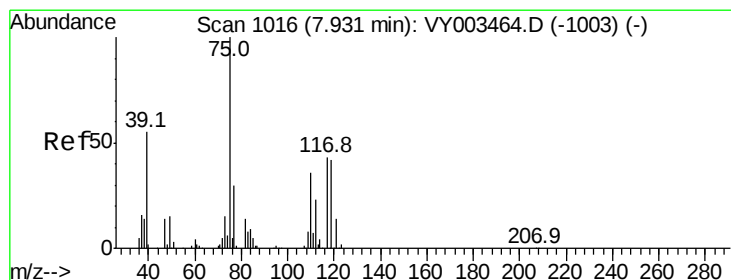
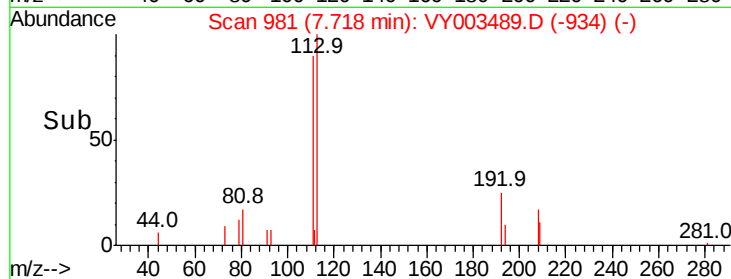
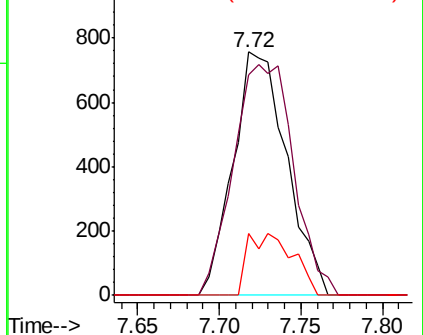
#35
 Dibromofluoromethane
 Concen: 47.119 ug/l
 RT: 7.72 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: VY003489.D
 Acq: 03 Nov 2020 14:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 2015

Tot Ion:113 Resp: 1729
 Ion Ratio Lower Upper
 113 100
 111 106.0 81.8 122.6
 192 21.2 18.8 28.2

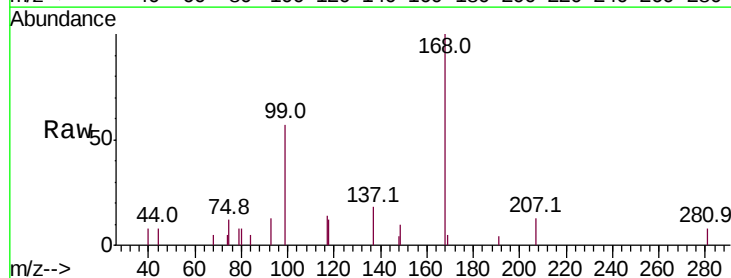


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

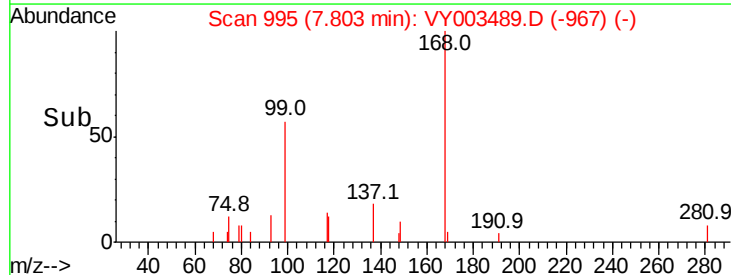
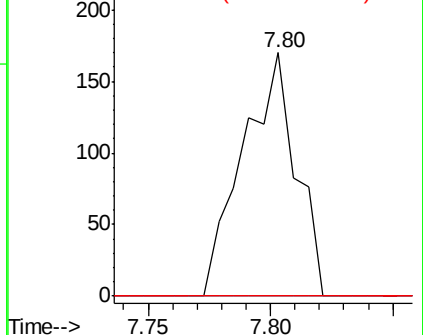


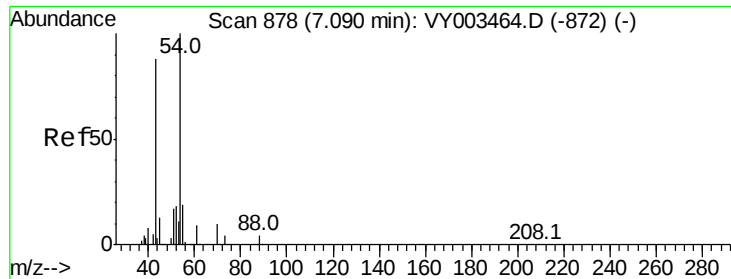
#36
 1,1-Dichloropropene
 Concen: 4.503 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY003489.D
 Acq: 03 Nov 2020 14:02

Tgt Ion: 75 Resp: 256
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.6 52.9#
 77 0.0 24.7 37.1#



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

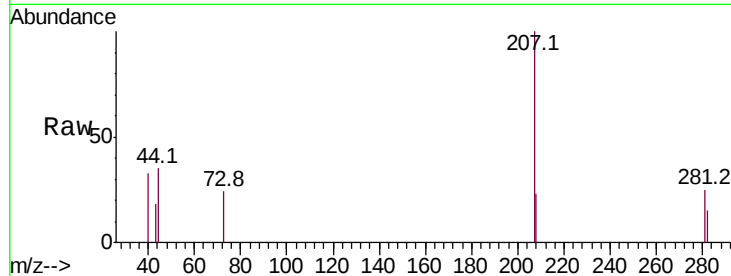




#37
Ethyl Acetate
Concen: 1.246 ug/l
RT: 7.00 min Scan# 864
Delta R.T. -0.09 min
Lab File: VY003489.D
Acq: 03 Nov 2020 14:02

Instrument :
MSVOA_Y
ClientSampleId :
2015

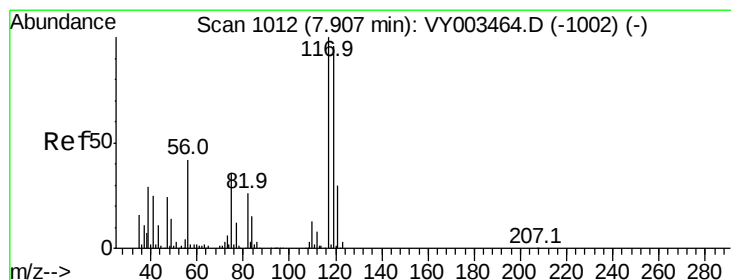
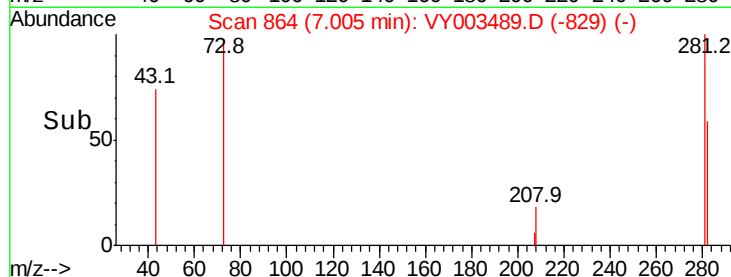
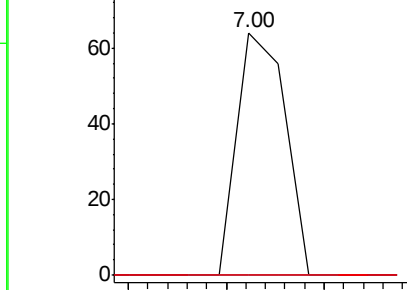
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6#
70	0.0	7.9	11.9#



Abundance Ion 43.00 (42.70 to 43.70): VY003489.D (-864) (-)

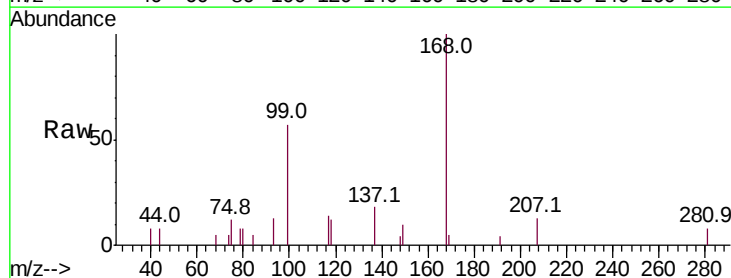
Ion 60.90 (60.60 to 61.60): VY003489.D (-864) (-)

Ion 70.00 (69.70 to 70.70): VY003489.D (-864) (-)



#38
Carbon Tetrachloride
Concen: 6.528 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.10 min
Lab File: VY003489.D
Acq: 03 Nov 2020 14:02

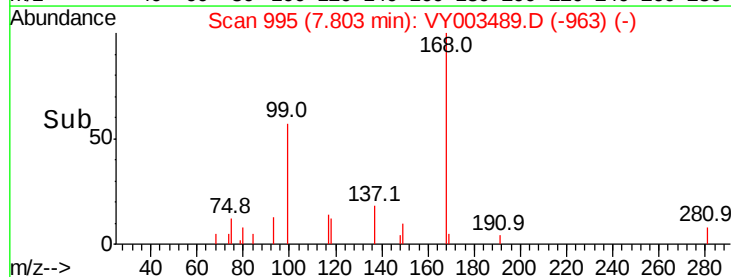
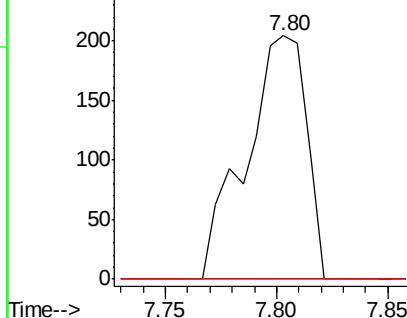
Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	76.2	114.4#
121	0.0	24.2	36.4#

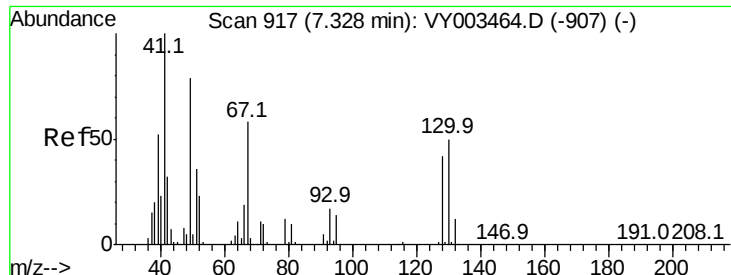


Abundance Ion 116.80 (116.50 to 117.50): VY003489.D (-963) (-)

Ion 118.80 (118.50 to 119.50): VY003489.D (-963) (-)

Ion 120.80 (120.50 to 121.50): VY003489.D (-963) (-)

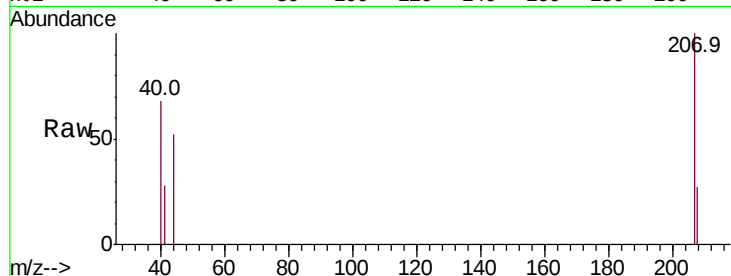




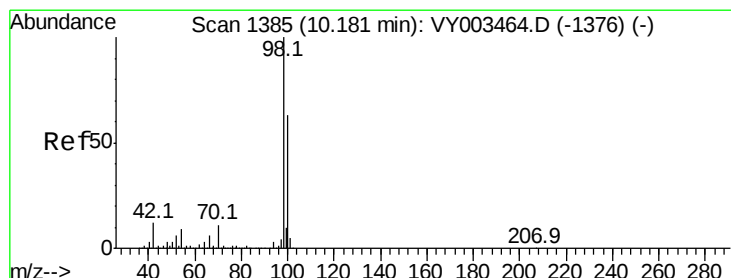
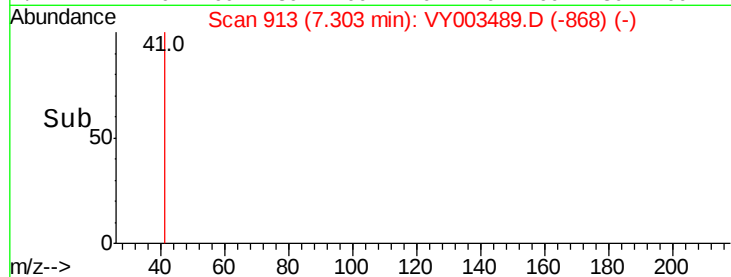
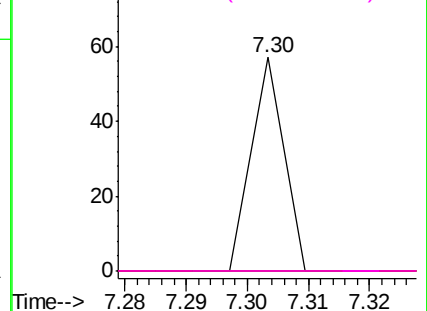
#41
Methacrylonitrile
Concen: 1.114 ug/l
RT: 7.30 min Scan# 913
Delta R.T. -0.02 min
Lab File: VY003489.D
Acq: 03 Nov 2020 14:02

Instrument :
MSVOA_Y
ClientSampled :
2015

Tot Ion:	41	Resp:	21
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

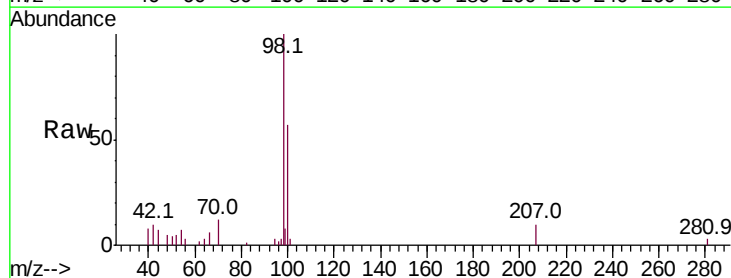


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0

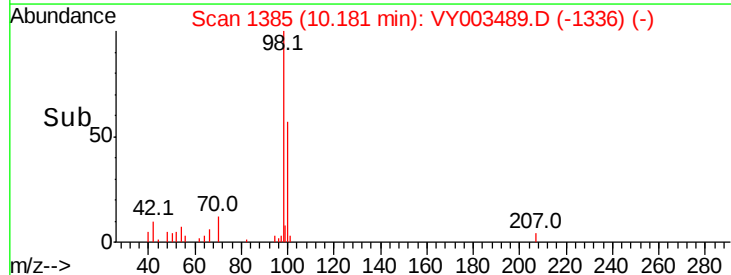
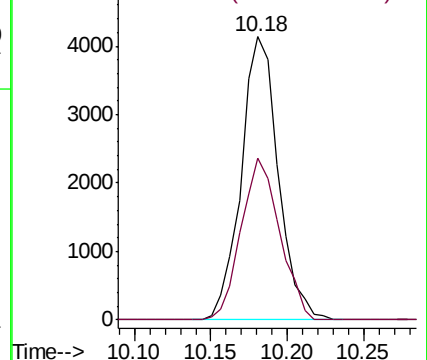


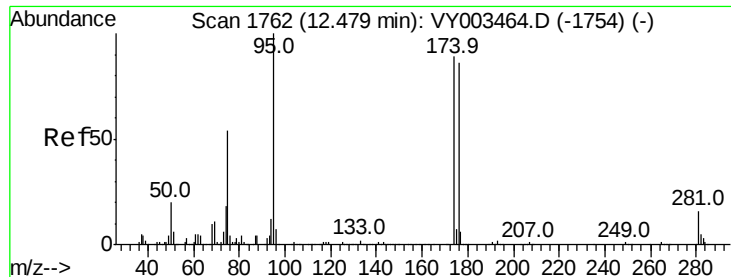
#50
Toluene-d8
Concen: 45.549 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY003489.D
Acq: 03 Nov 2020 14:02

Tgt Ion:	98	Resp:	6953
Ion	Ratio	Lower	Upper
98	100		
100	59.4	50.9	76.3



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





#62

4-Bromofluorobenzene

Concen: 32.544 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :

MSVOA_Y

ClientSampleId :
2015

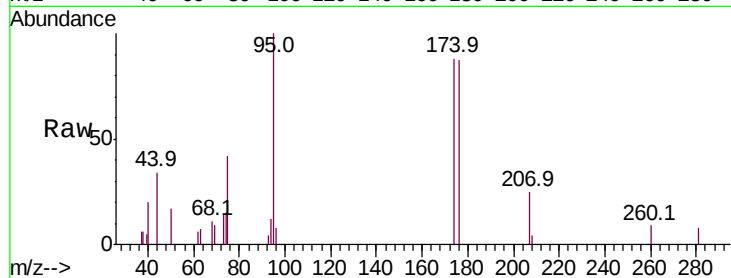
Tot Ion: 95 Resp: 1646

Ion Ratio Lower Upper

95 100

174 89.9 0.0 193.0

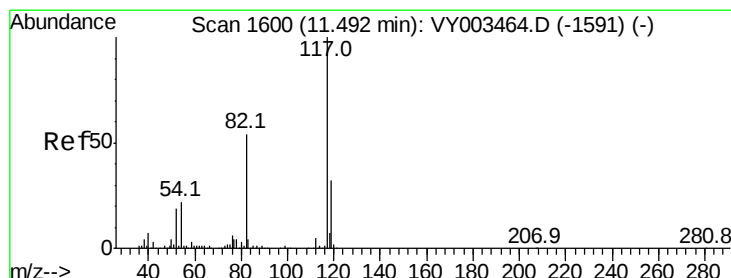
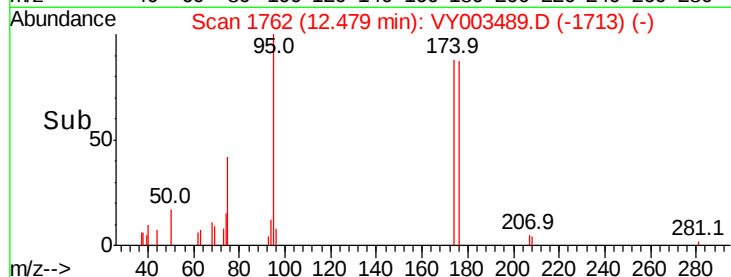
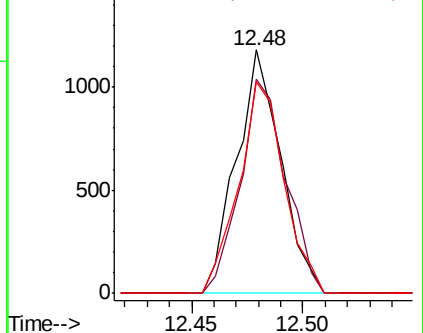
176 89.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): VY0

Ion 175.80 (175.50 to 176.50): VY0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

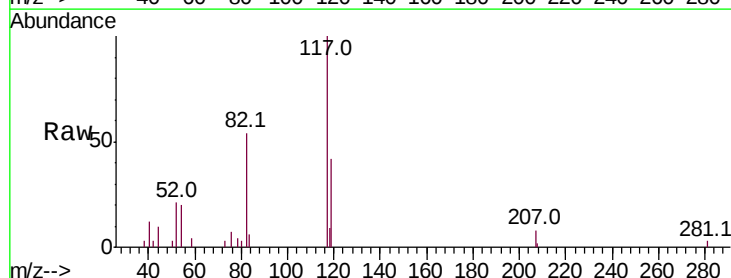
Tgt Ion: 117 Resp: 4490

Ion Ratio Lower Upper

117 100

82 54.2 43.4 65.2

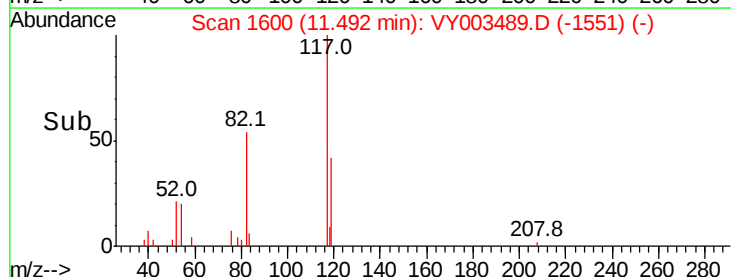
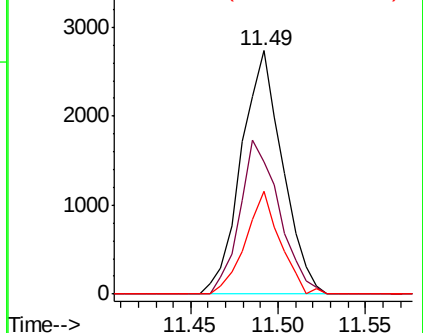
119 42.1 25.8 38.6#

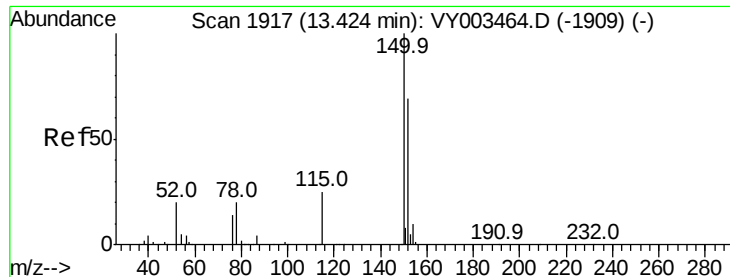


Abundance Ion 116.90 (116.60 to 117.60): VY0

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :

MSVOA_Y

ClientSampleId :
2015

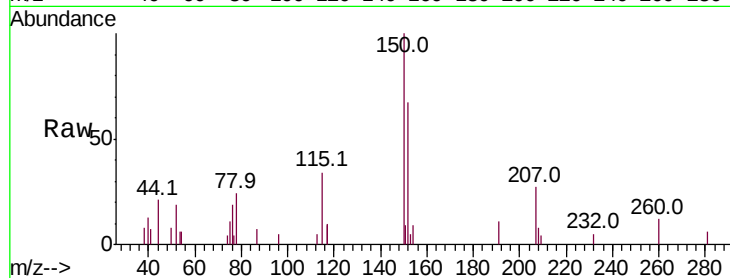
Tot Ion:152 Resp: 1549

Ion Ratio Lower Upper

152 100

115 56.2 27.5 82.4

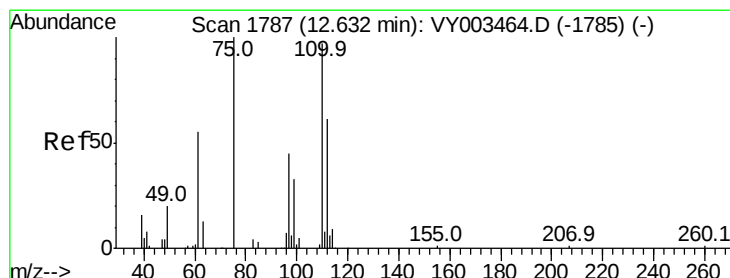
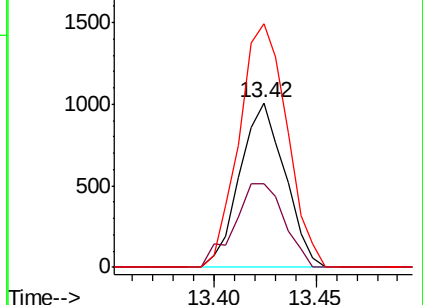
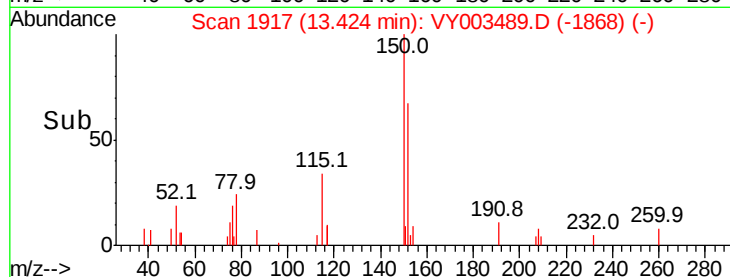
150 156.8 0.0 345.8



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: 2.929 ug/l

RT: 12.64 min Scan# 1788

Delta R.T. 0.01 min

Lab File: VY003489.D

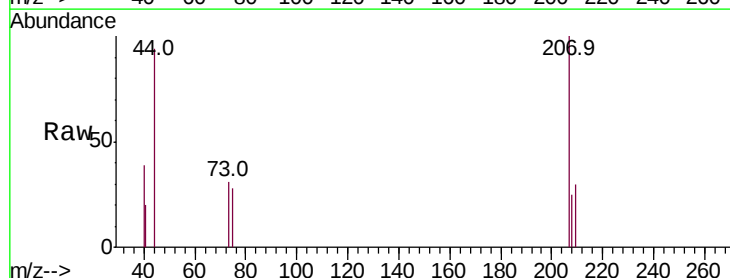
Acq: 03 Nov 2020 14:02

Tgt Ion: 75 Resp: 48

Ion Ratio Lower Upper

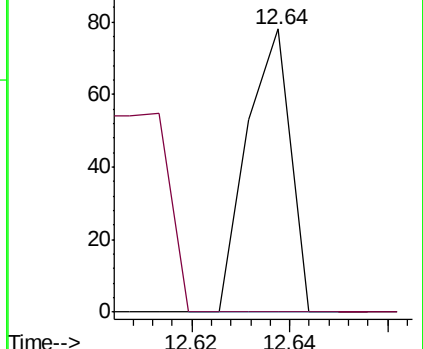
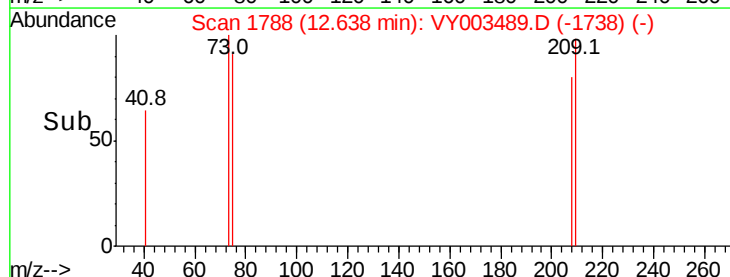
75 100

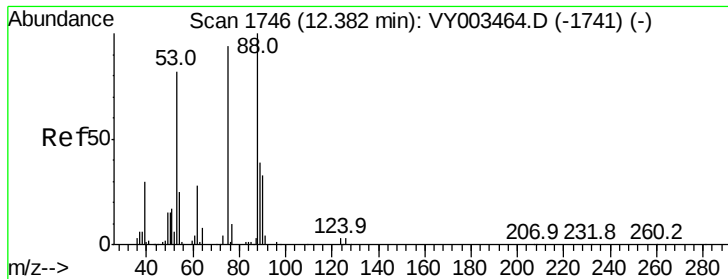
77 0.0 0.0 0.0



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: 106.845 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :

MSVOA_Y

ClientSampleId :

2015

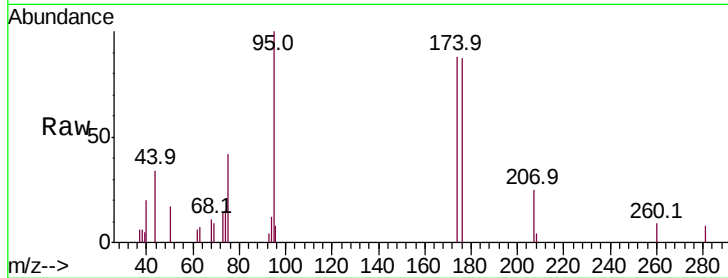
Tot Ion: 75 Resp: 839

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

12.48

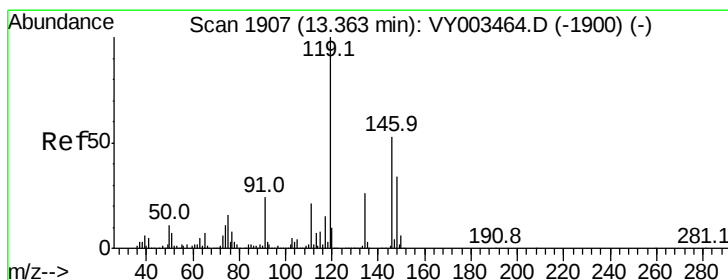
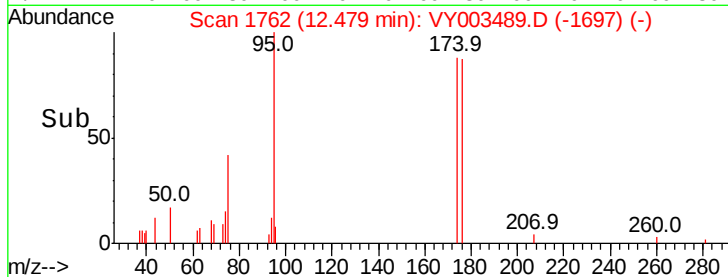
400

200

0

12.45 12.50

Time-->



#87

1,3-Dichlorobenzene

Concen: 3.445 ug/l

RT: 13.44 min Scan# 1920

Delta R.T. 0.08 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

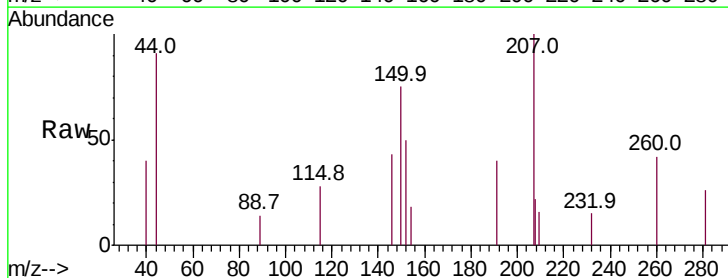
Tgt Ion: 146 Resp: 165

Ion Ratio Lower Upper

146 100

111 0.0 19.1 57.1#

148 0.0 32.4 97.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.44

250

200

150

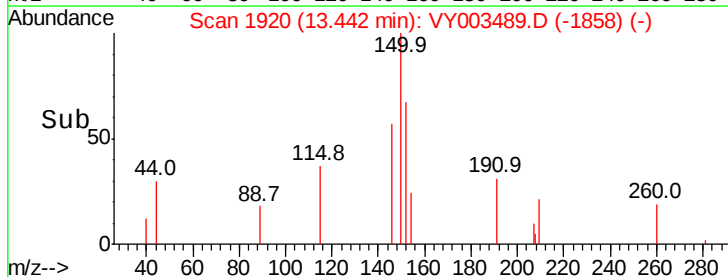
100

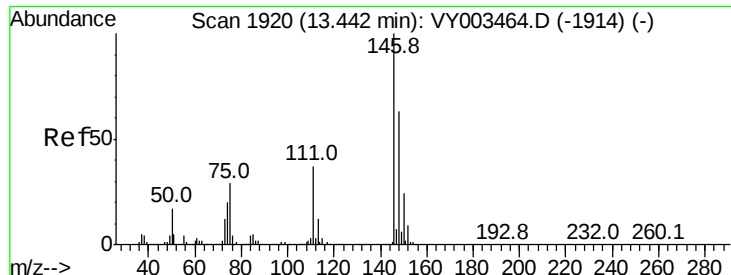
50

0

13.40 13.45

Time-->





#88

1,4-Dichlorobenzene

Concen: 3.465 ug/l

RT: 13.44 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VY003489.D

Acq: 03 Nov 2020 14:02

Instrument :

MSVOA_Y

ClientSampleId :
2015

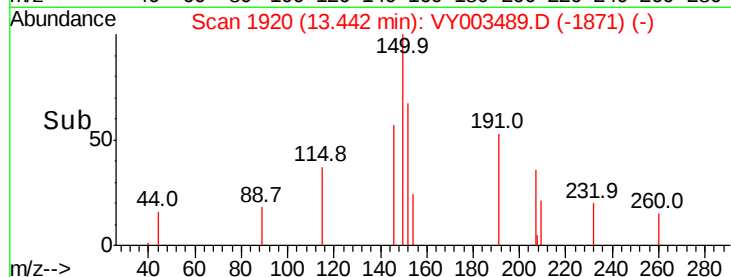
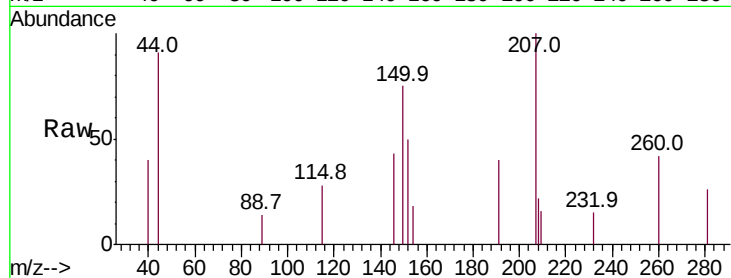
Tot Ion:146 Resp: 165

Ion Ratio Lower Upper

146 100

111 0.0 18.3 54.8#

148 0.0 32.0 96.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

