

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY021920\
 Data File : VY001708.D
 Acq On : 19 Feb 2020 18:43
 Operator : SY/MD
 Sample : L1589-05
 Misc : 9.75G/5ML/MSVOA Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 20 05:42:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y021720S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 17 12:19:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	186427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	347221	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	321322	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	143927	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.17	65	117335	58.51	ug/l	0.00
Spiked Amount			Recovery	=	117.02%	
35) Dibromofluoromethane	7.75	113	102618	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
50) Toluene-d8	10.19	98	421227	54.06	ug/l	0.00
Spiked Amount			Recovery	=	108.12%	
62) 4-Bromofluorobenzene	12.49	95	153215	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	

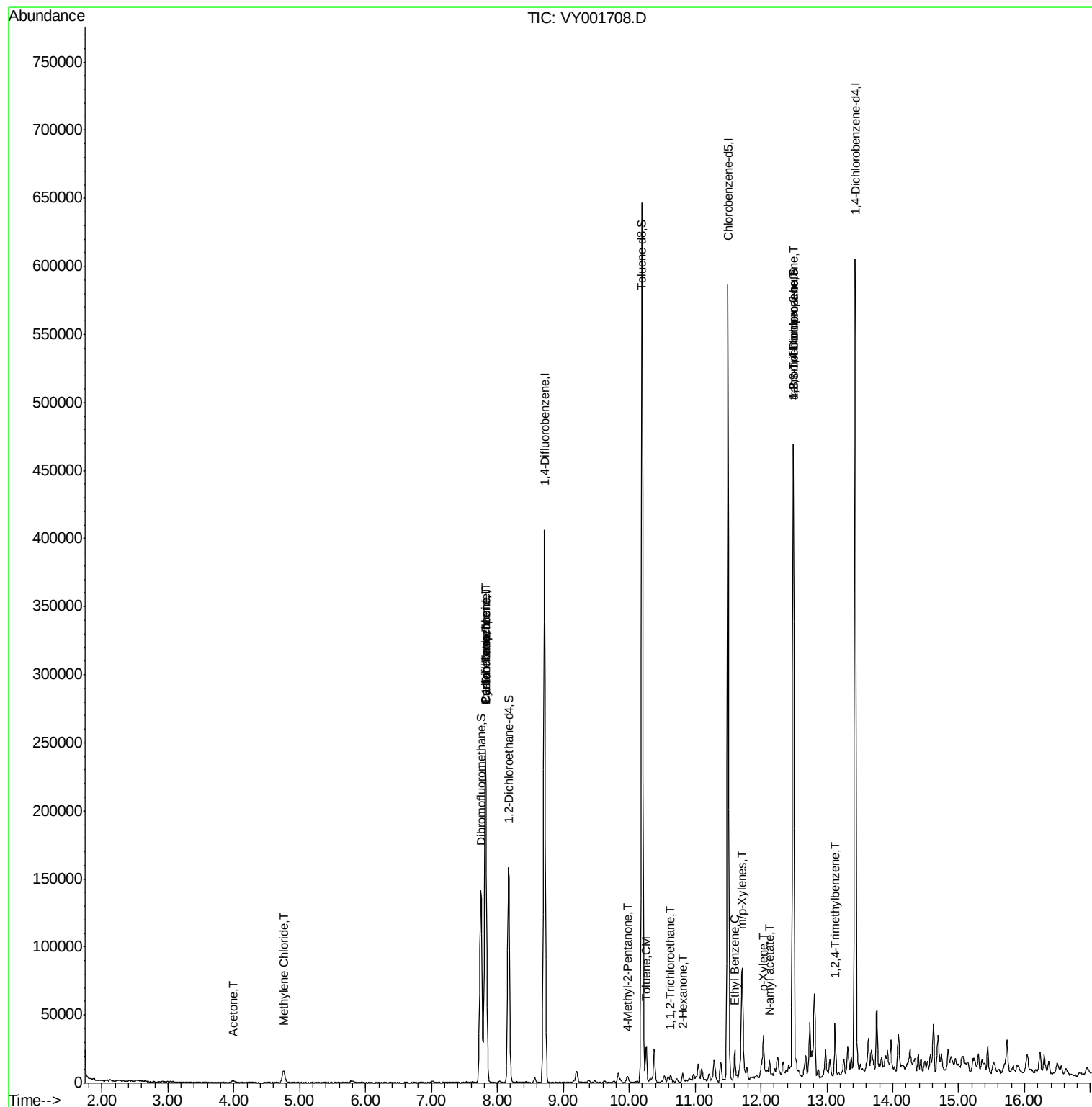
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	39	Below Cal	#	74
16) Acetone	3.99	43	3206	4.621	ug/l	96
20) Methylene Chloride	4.76	84	6822	2.768	ug/l #	86
31) Cyclohexane	7.82	56	4577	1.086	ug/l #	1
36) 1,1-Dichloropropene	7.82	75	15923	4.801	ug/l #	49
38) Carbon Tetrachloride	7.82	117	19123	6.564	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	2267	1.175	ug/l #	35
52) Toluene	10.26	92	10578	1.739	ug/l	89
55) 1,1,2-Trichloroethane	10.63	97	1902	1.010	ug/l #	17
59) 2-Hexanone	10.81	43	2612	1.804	ug/l #	23
67) Ethyl Benzene	11.60	91	14793	1.243	ug/l #	86
68) m/p-Xylenes	11.70	106	14145	3.181	ug/l	98
69) o-Xylene	12.03	106	6475	1.532	ug/l	87
74) N-amyl acetate	12.13	43	3566	1.019	ug/l #	57
76) 1,2,3-Trichloropropane	12.49	75	77343	46.845	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	77343	88.874	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.13	105	20181	2.230	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

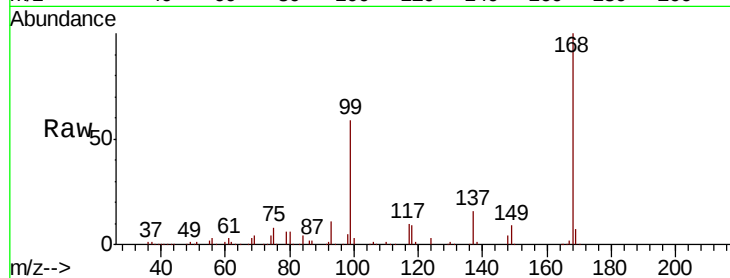
ClientSampleId :

Tot Ion:168 Resp: 186427

Ion Ratio Lower Upper

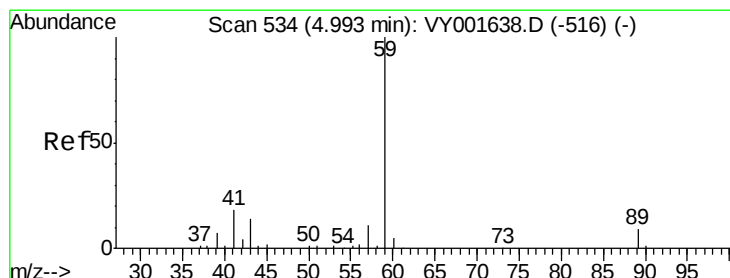
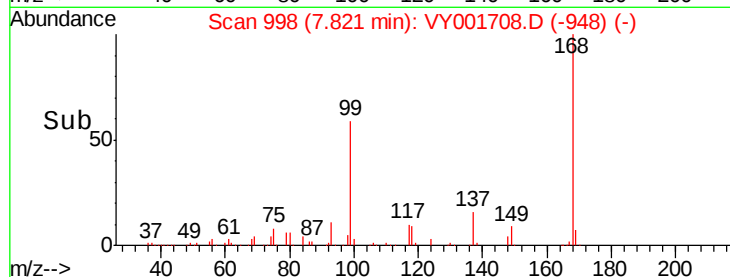
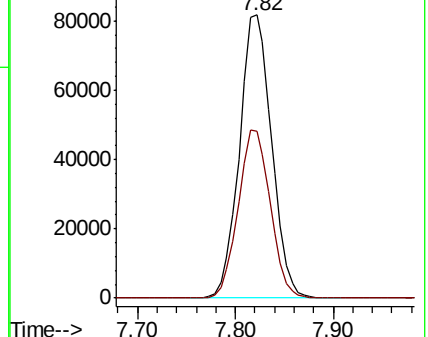
168 100

99 58.8 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001708.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001708.D (-987) (-)



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.00 min Scan# 535

Delta R.T. 0.01 min

Lab File: VY001708.D

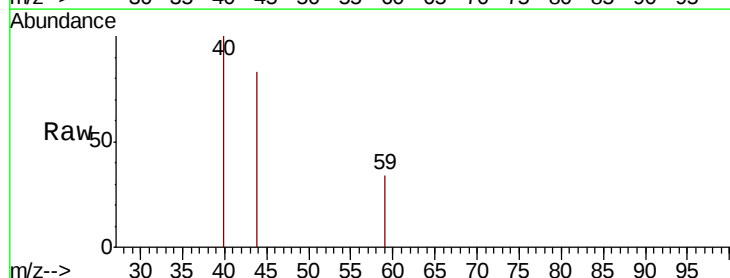
Acq: 19 Feb 2020 18:43

Tgt Ion: 59 Resp: 39

Ion Ratio Lower Upper

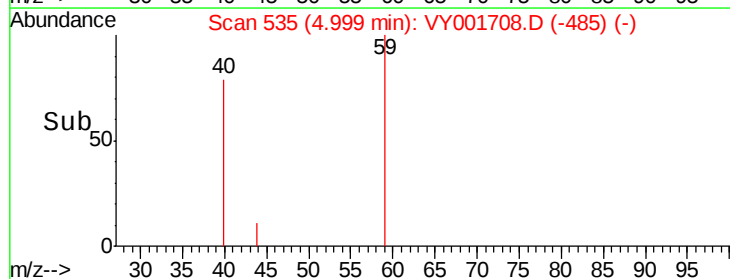
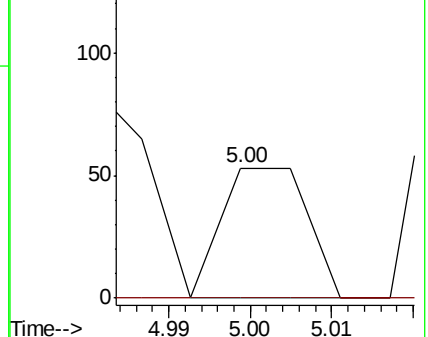
59 100

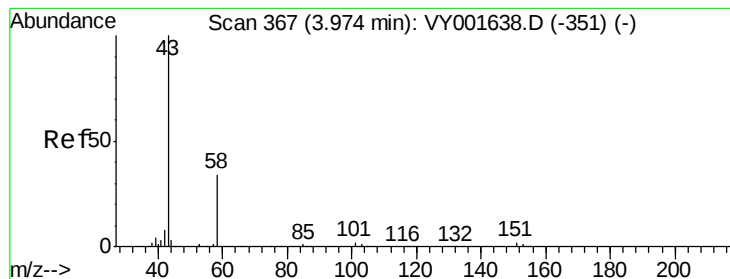
57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001708.D (-485) (-)

Ion 57.00 (56.70 to 57.70): VY001708.D (-485) (-)





#16

Acetone

Concen: 4.621 ug/l

RT: 3.99 min Scan# 370

Delta R.T. 0.02 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

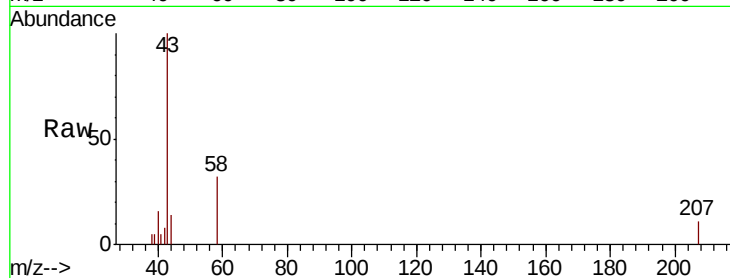
ClientSampleId :

Tot Ion: 43 Resp: 3206

Ion Ratio Lower Upper

43 100

58 31.6 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VY001708.D (-370) (-)

Ion 58.00 (57.70 to 58.70): VY001708.D (-370) (-)

3.99

1200

1000

800

600

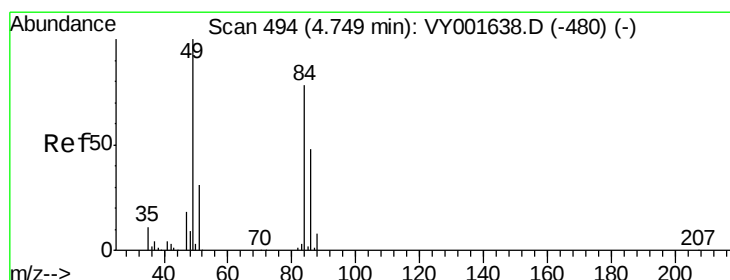
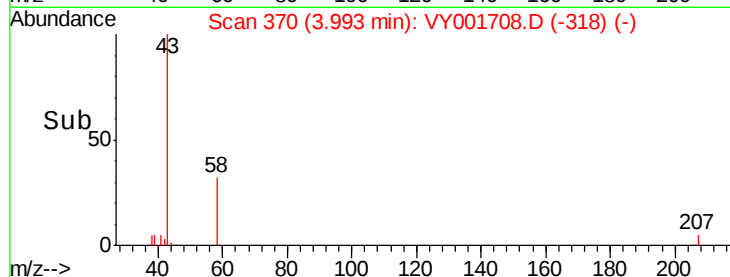
400

200

0

Time-->

3.90 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 2.768 ug/l

RT: 4.76 min Scan# 496

Delta R.T. 0.01 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Tgt Ion: 84 Resp: 6822

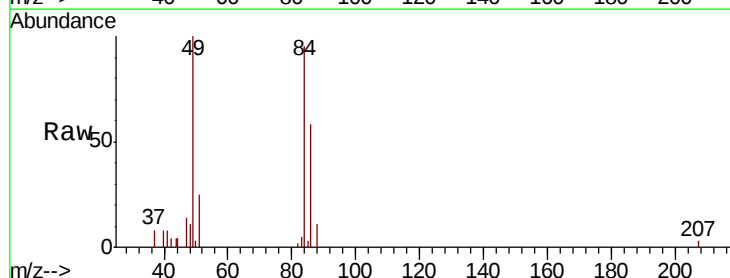
Ion Ratio Lower Upper

84 100

49 105.4 99.2 148.8

51 26.0 31.5 47.3#

86 61.4 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VY001708.D (-496) (-)

Ion 48.90 (48.60 to 49.60): VY001708.D (-496) (-)

Ion 50.90 (50.60 to 51.60): VY001708.D (-496) (-)

Ion 85.90 (85.60 to 86.60): VY001708.D (-496) (-)

4.76

4000

3000

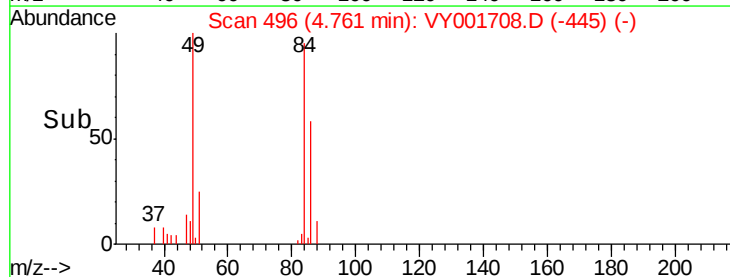
2000

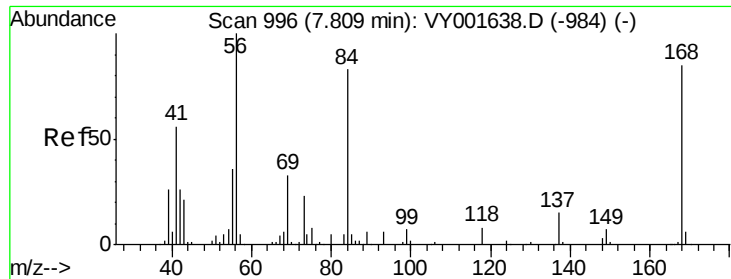
1000

0

Time-->

4.70 4.75 4.80

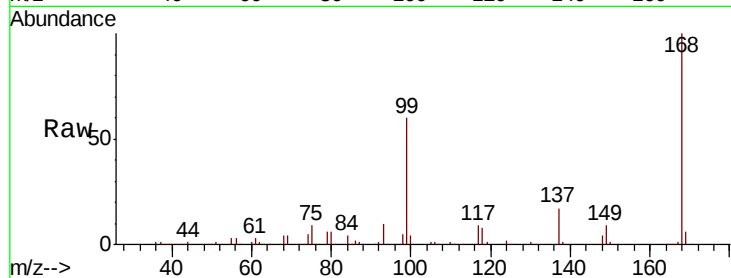




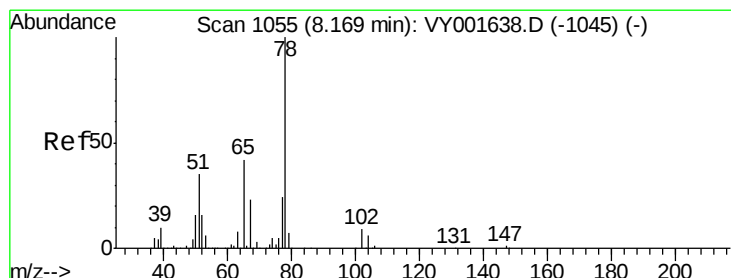
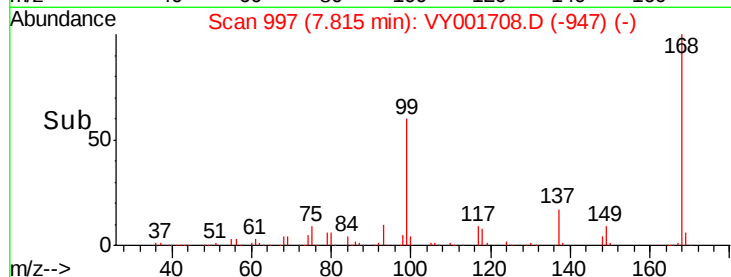
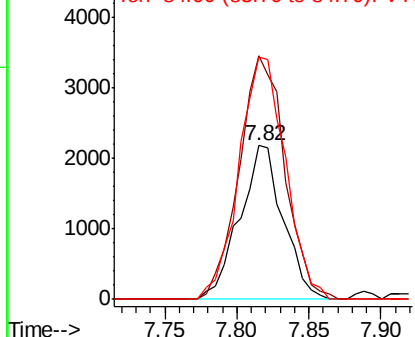
#31
Cyclohexane
Concen: 1.086 ug/l
RT: 7.82 min Scan# 997
Delta R.T. 0.01 min
Lab File: VY001708.D
Acq: 19 Feb 2020 18:43

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 56 Resp: 4577
Ion Ratio Lower Upper
56 100
69 158.5 25.1 37.7#
84 157.8 66.9 100.3#

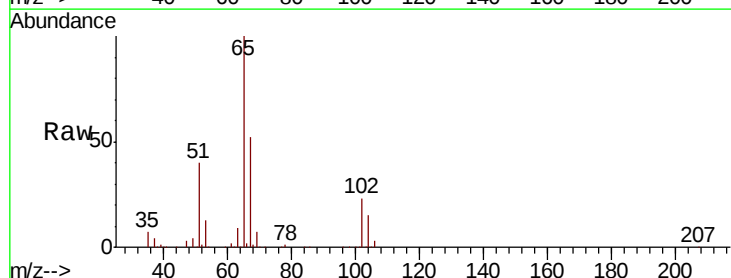


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

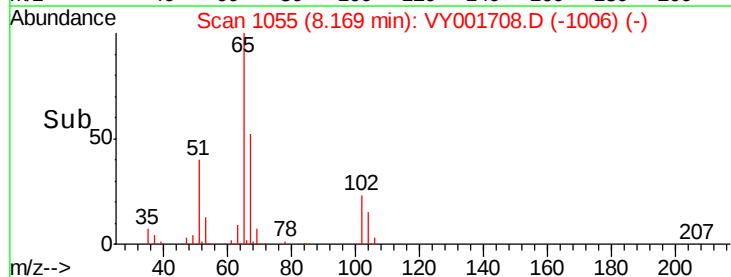
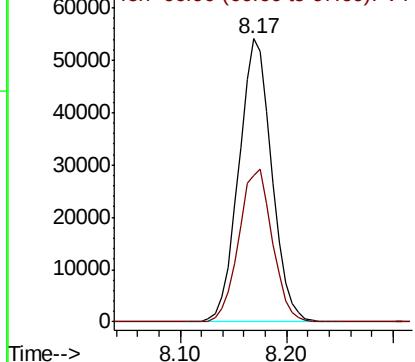


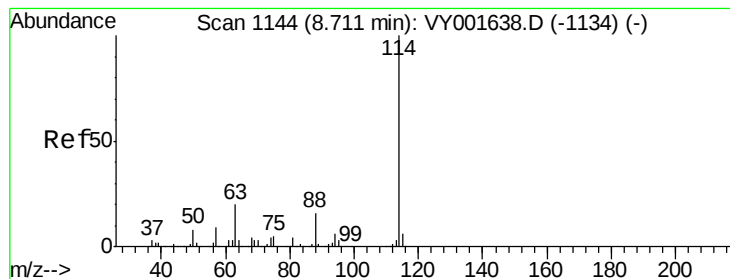
#33
1,2-Dichloroethane-d4
Concen: 58.513 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VY001708.D
Acq: 19 Feb 2020 18:43

Tgt Ion: 65 Resp: 117335
Ion Ratio Lower Upper
65 100
67 54.9 0.0 111.0



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: 8.71 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

ClientSampleId :

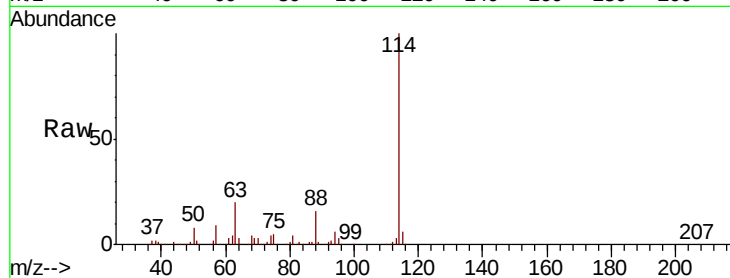
Tot Ion:114 Resp: 347221

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.4

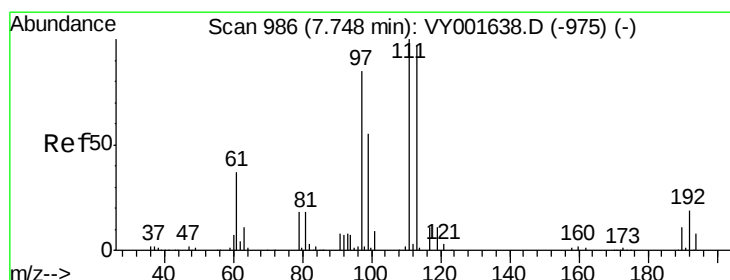
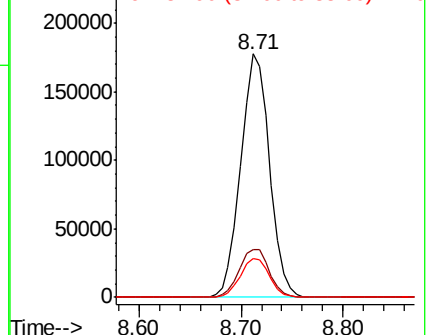
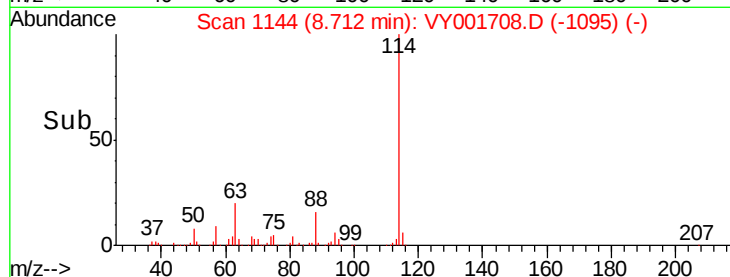
88 15.8 0.0 32.8



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: 51.600 ug/l

RT: 7.75 min Scan# 986

Delta R.T. 0.00 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

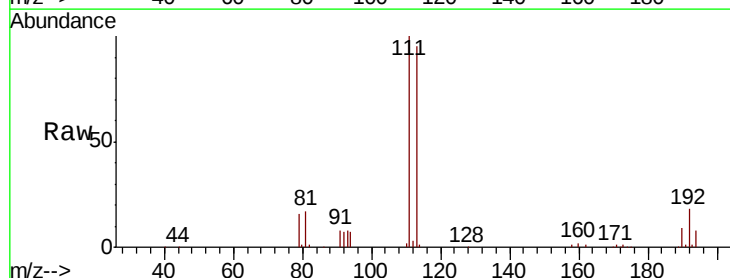
Tgt Ion:113 Resp: 102618

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

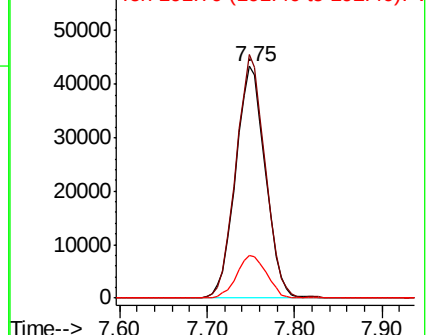
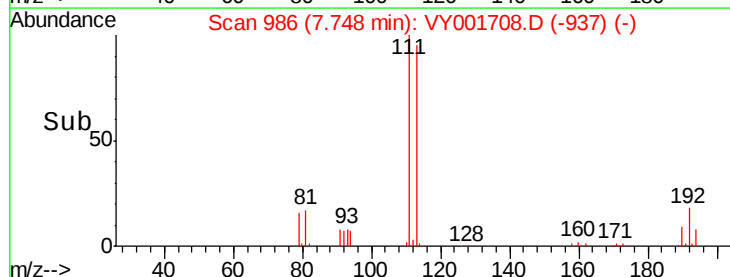
192 18.6 14.3 21.5

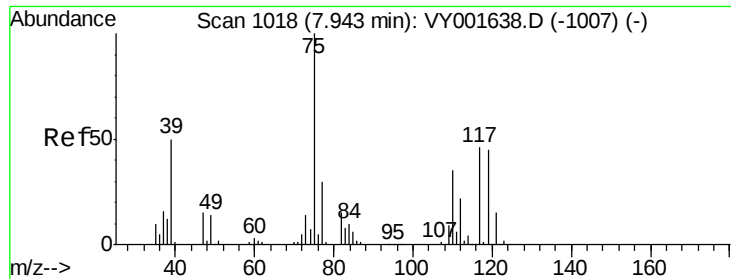


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

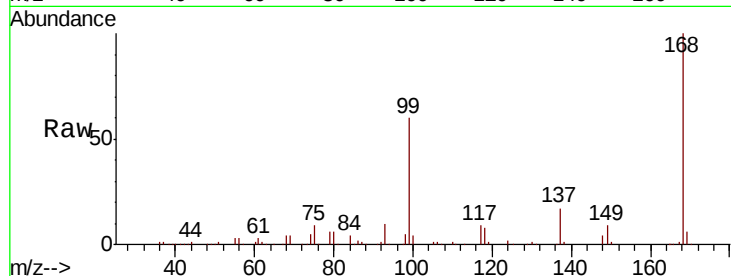




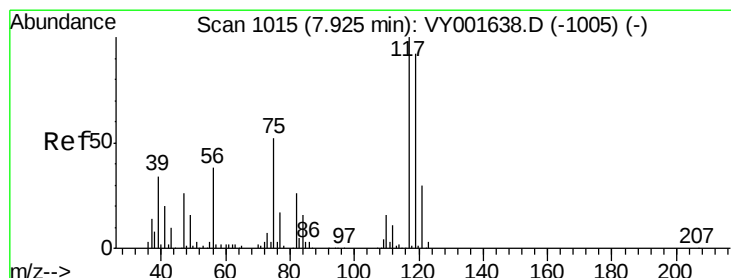
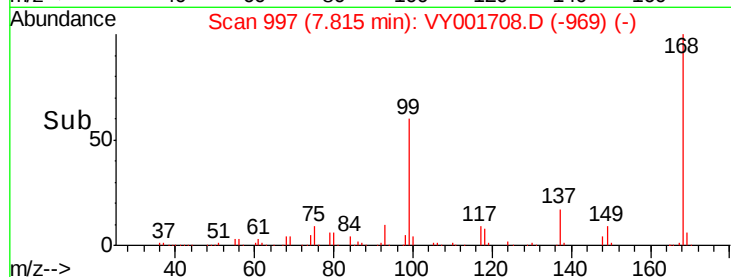
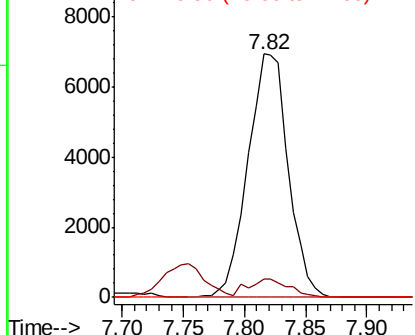
#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 7.82 min Scan# 997
 Delta R.T. -0.13 min
 Lab File: VY001708.D
 Acq: 19 Feb 2020 18:43

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.6	17.2	51.6#
77	0.0	24.8	37.2#

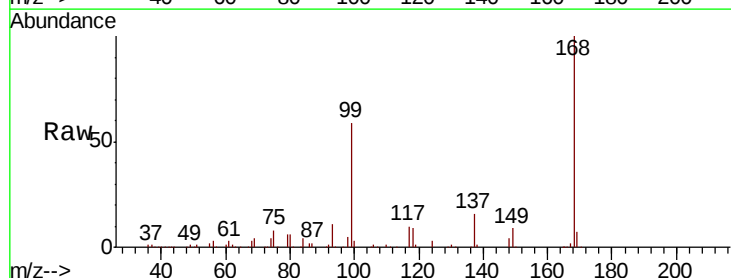


Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): VY0
 Ion 76.90 (76.60 to 77.60): VY0

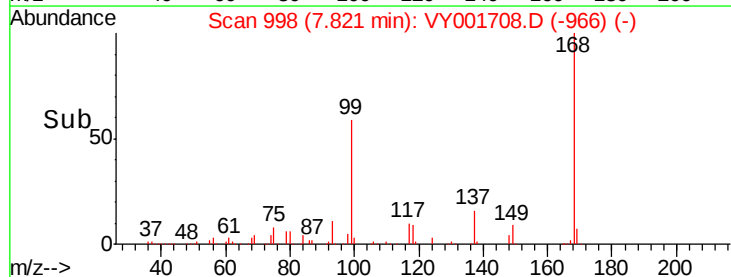
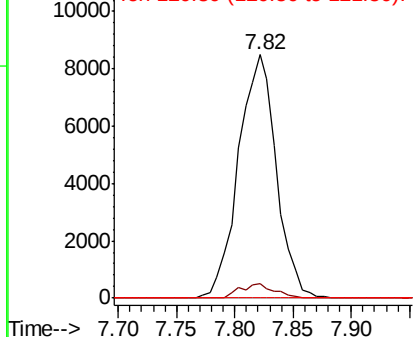


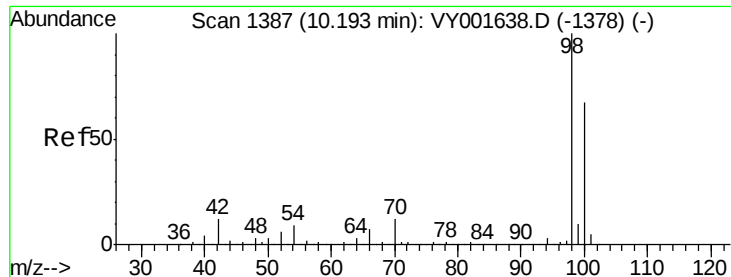
#38
 Carbon Tetrachloride
 Concen: 6.564 ug/l
 RT: 7.82 min Scan# 998
 Delta R.T. -0.10 min
 Lab File: VY001708.D
 Acq: 19 Feb 2020 18:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	74.8	112.2#
121	0.0	23.8	35.6#



Abundance Ion 116.80 (116.50 to 117.50): VY0
 Ion 118.80 (118.50 to 119.50): VY0
 Ion 120.80 (120.50 to 121.50): VY0





#50

Toluene-d8

Concen: 54.064 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

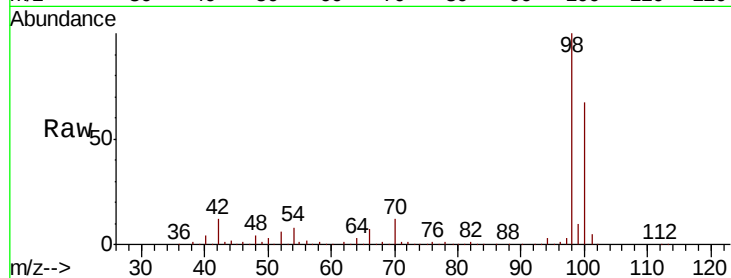
ClientSampleId :

Tot Ion: 98 Resp: 421227

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY001638.D (-1378) (-)

Ion 100.00 (99.70 to 100.70): VY001638.D (-1378) (-)

10.19

250000

200000

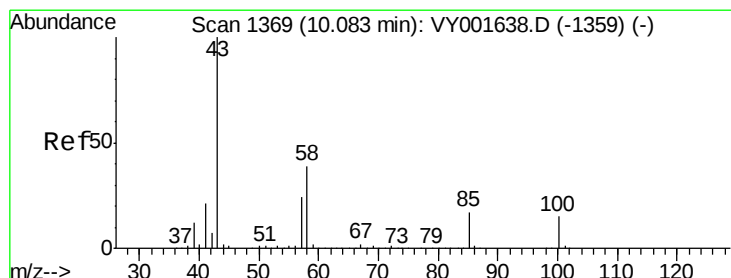
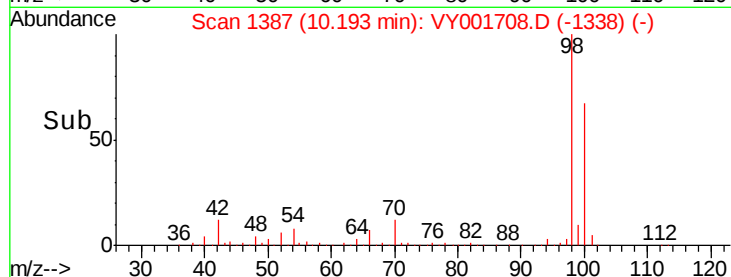
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.175 ug/l

RT: 9.98 min Scan# 1352

Delta R.T. -0.10 min

Lab File: VY001708.D

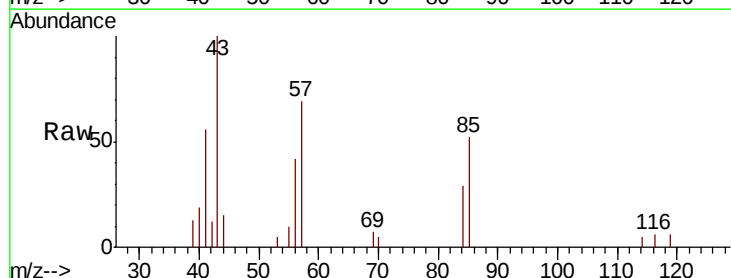
Acq: 19 Feb 2020 18:43

Tgt Ion: 43 Resp: 2267

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VY001638.D (-1359) (-)

Ion 58.00 (57.70 to 58.70): VY001638.D (-1359) (-)

9.98

1200

1000

800

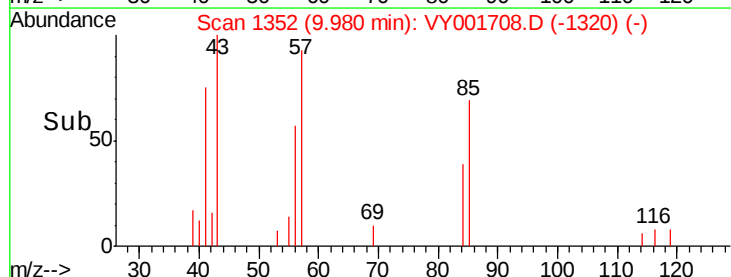
600

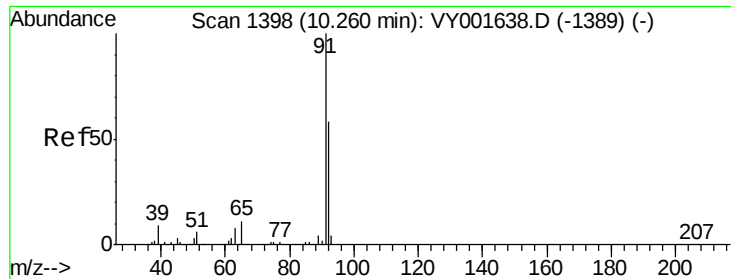
400

200

0

Time-->





#52

Toluene

Concen: 1.739 ug/l

RT: 10.26 min Scan# 1398

Delta R.T. 0.00 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

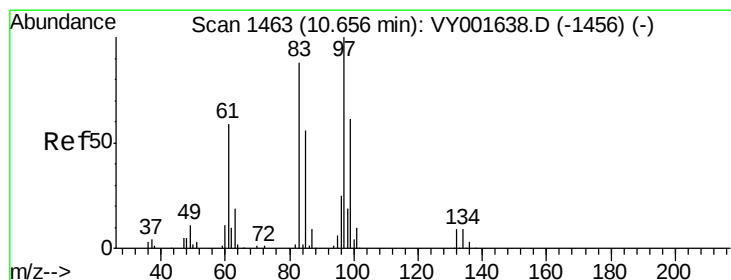
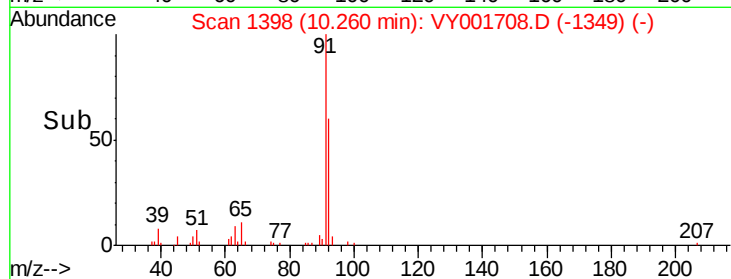
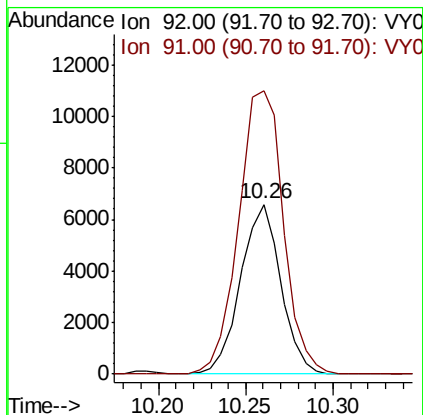
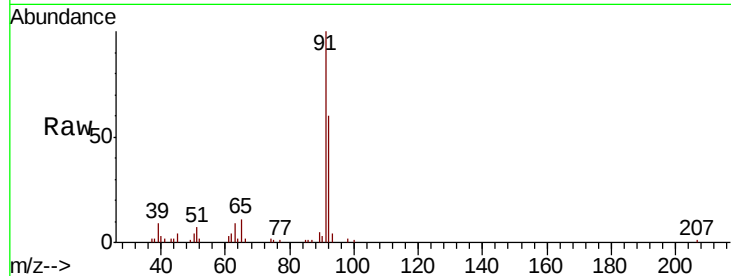
ClientSampleId :

Tot Ion: 92 Resp: 10578

Ion Ratio Lower Upper

92 100

91 186.0 137.0 205.6



#55

1,1,2-Trichloroethane

Concen: 1.010 ug/l

RT: 10.63 min Scan# 1459

Delta R.T. -0.02 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Tgt Ion: 97 Resp: 1902

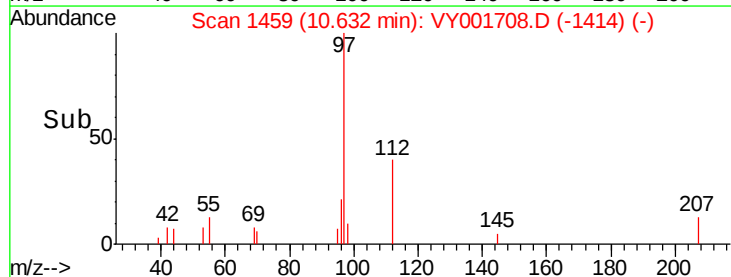
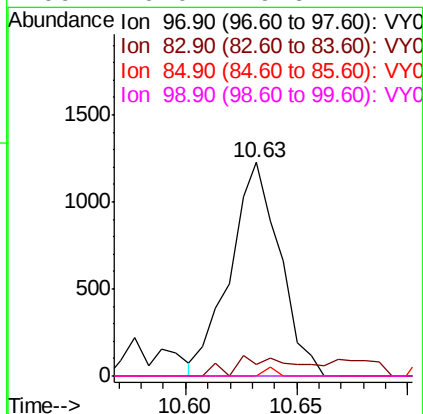
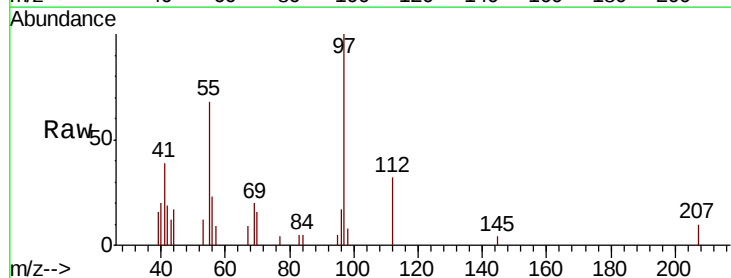
Ion Ratio Lower Upper

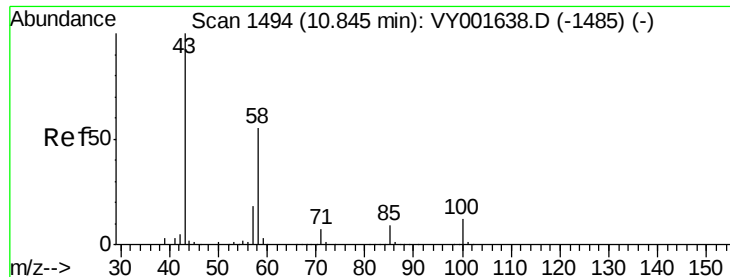
97 100

83 5.2 69.7 104.5#

85 0.0 44.5 66.7#

99 0.0 49.6 74.4#





#59

2-Hexanone

Concen: 1.804 ug/l

RT: 10.81 min Scan# 1488

Delta R.T. -0.04 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

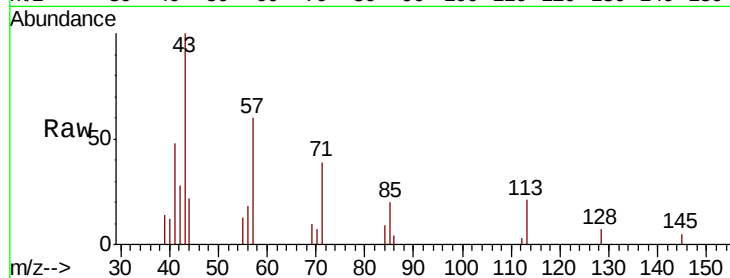
ClientSampleId :

Tot Ion: 43 Resp: 2612

Ion Ratio Lower Upper

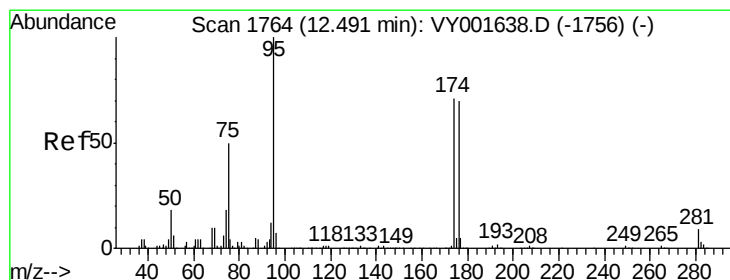
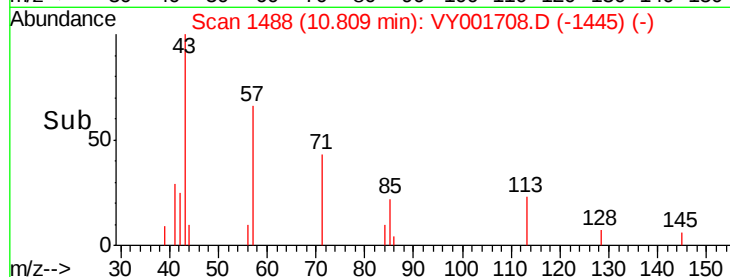
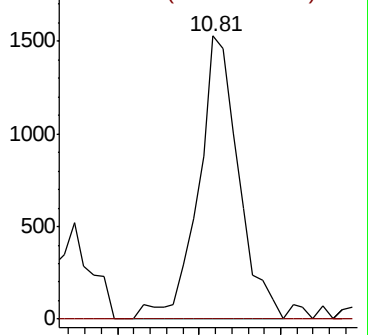
43 100

58 0.0 28.4 85.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#62

4-Bromofluorobenzene

Concen: 50.619 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

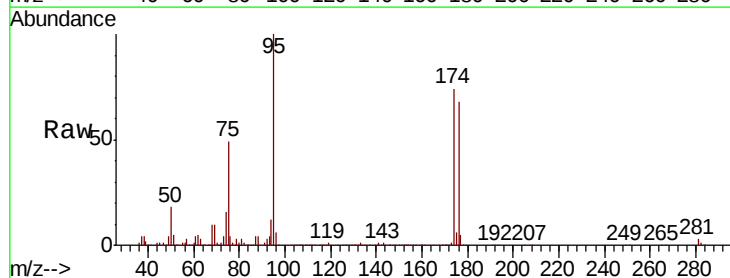
Tgt Ion: 95 Resp: 153215

Ion Ratio Lower Upper

95 100

174 71.5 0.0 138.4

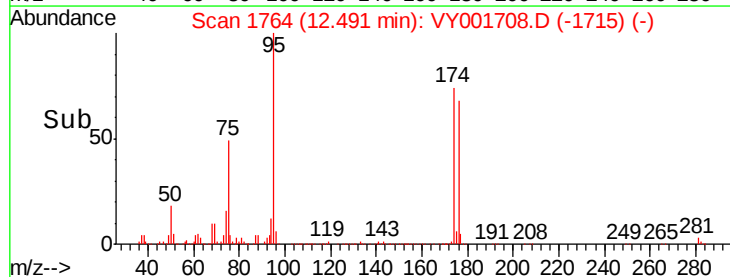
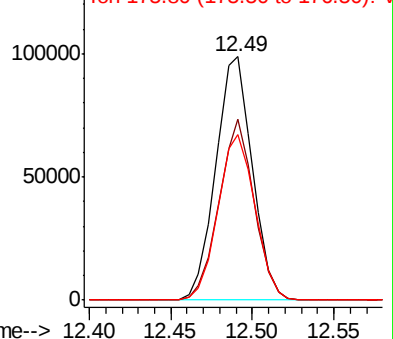
176 69.0 0.0 131.8

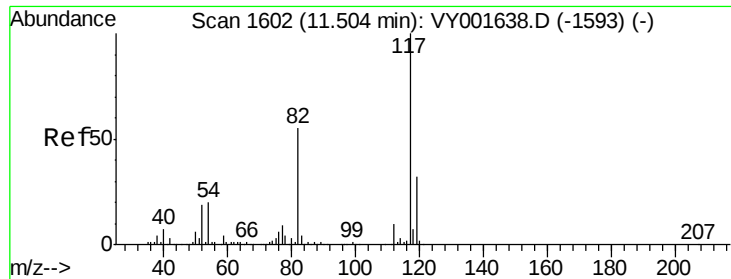


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

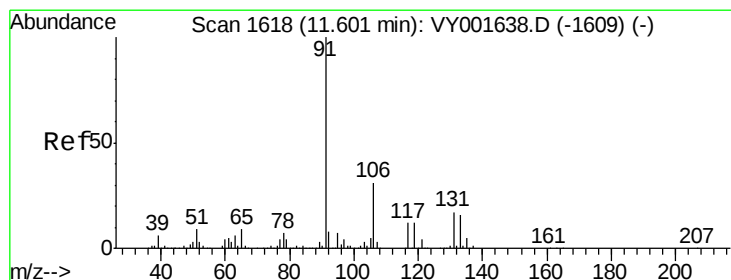
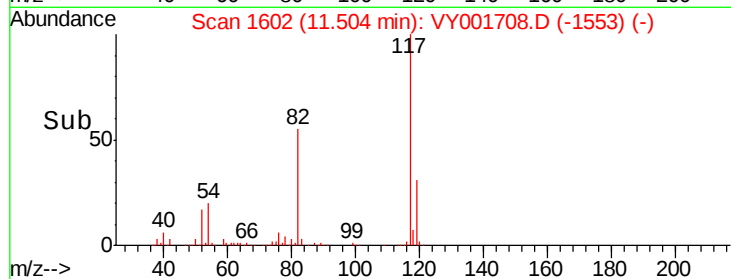
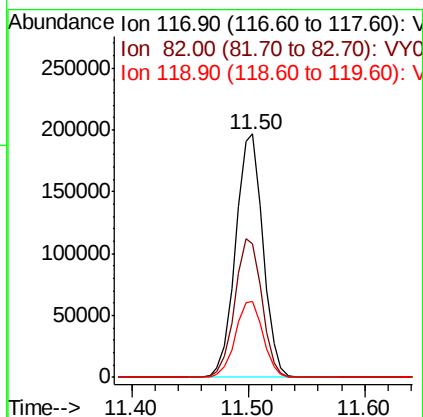
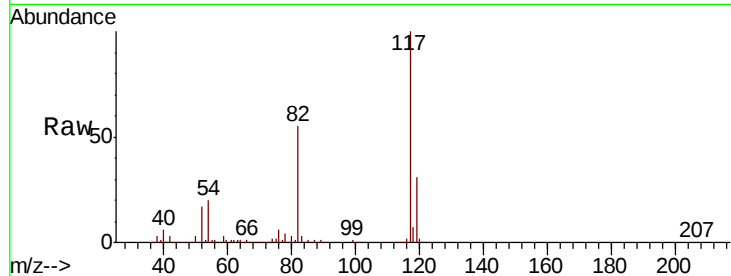




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VY001708.D
Acq: 19 Feb 2020 18:43

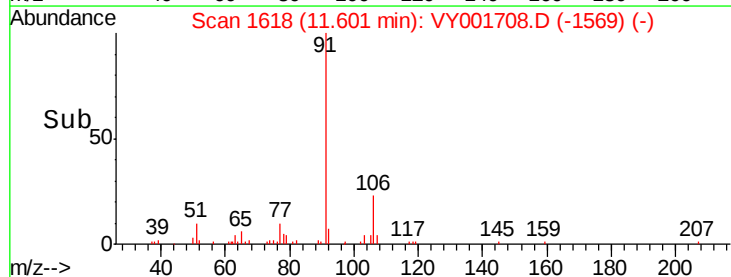
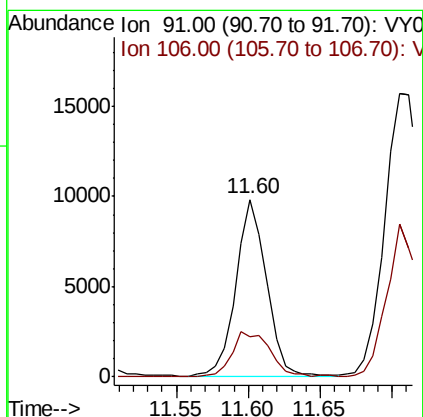
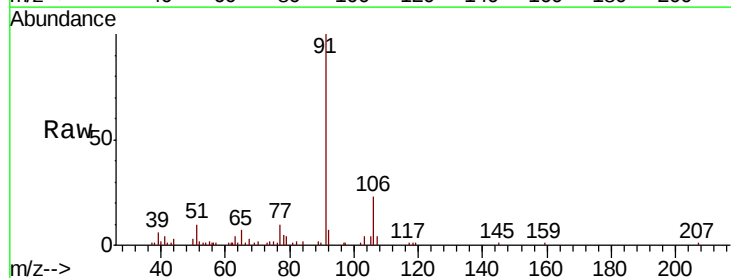
Instrument :
MSVOA_Y
ClientSampleId :

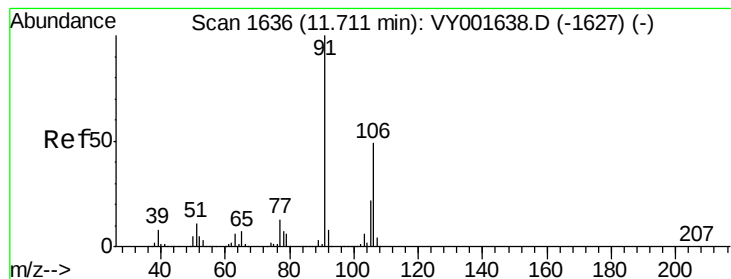
Tot Ion:117 Resp: 321322
Ion Ratio Lower Upper
117 100
82 54.9 45.5 68.3
119 31.3 25.8 38.6



#67
Ethyl Benzene
Concen: 1.243 ug/l
RT: 11.60 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VY001708.D
Acq: 19 Feb 2020 18:43

Tgt Ion: 91 Resp: 14793
Ion Ratio Lower Upper
91 100
106 22.8 24.5 36.7#





#68

m/p-Xylenes

Concen: 3.181 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

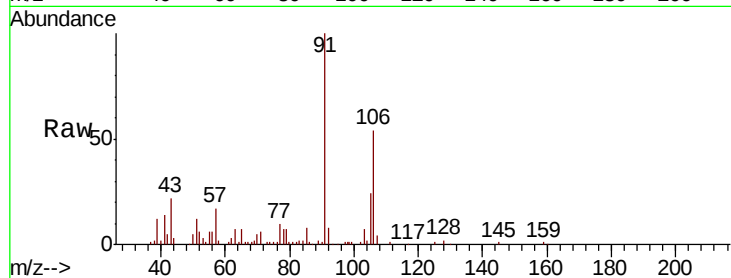
ClientSampleId :

Tot Ion:106 Resp: 14145

Ion Ratio Lower Upper

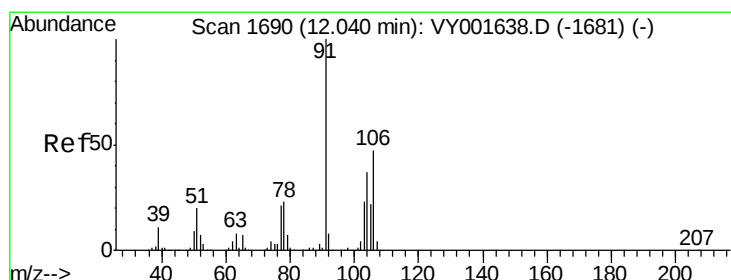
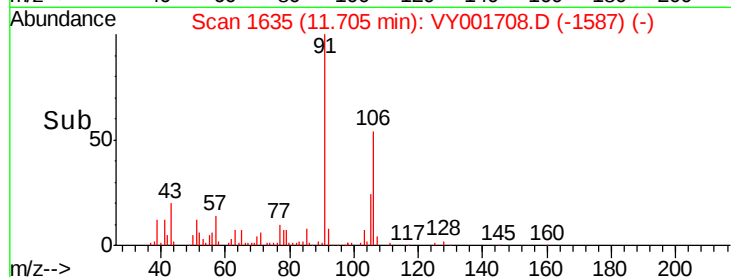
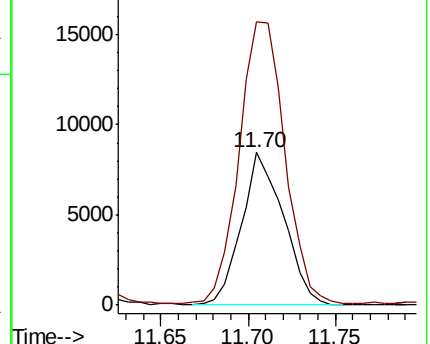
106 100

91 201.4 163.3 244.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 1.532 ug/l

RT: 12.03 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VY001708.D

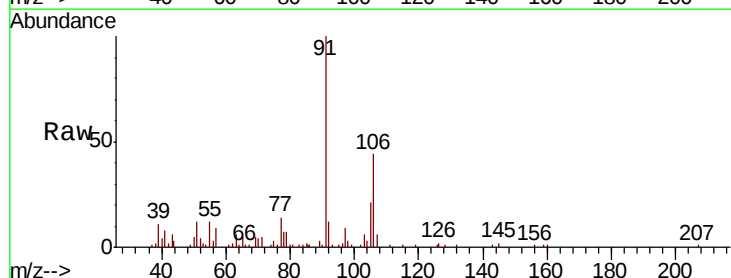
Acq: 19 Feb 2020 18:43

Tgt Ion:106 Resp: 6475

Ion Ratio Lower Upper

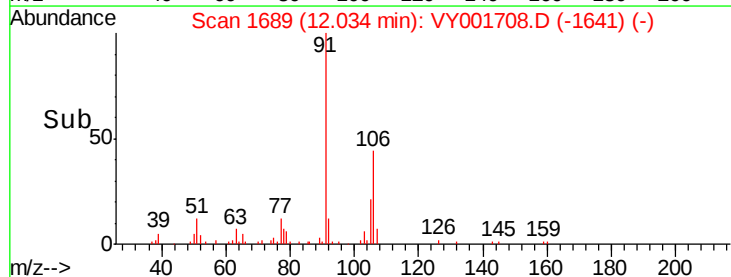
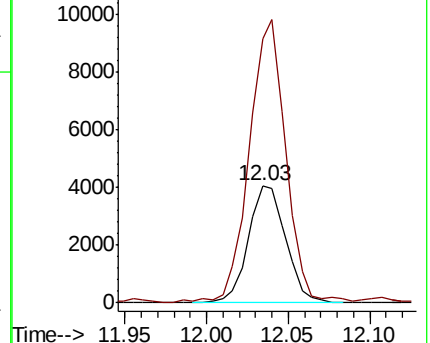
106 100

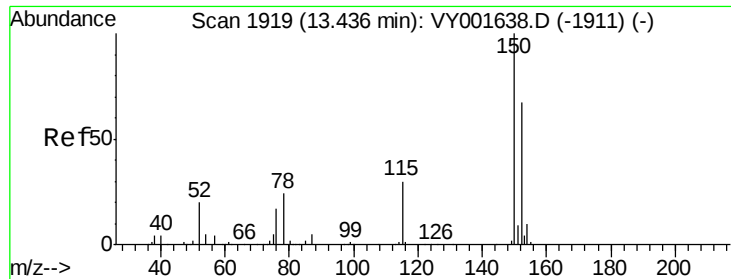
91 237.1 108.3 324.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



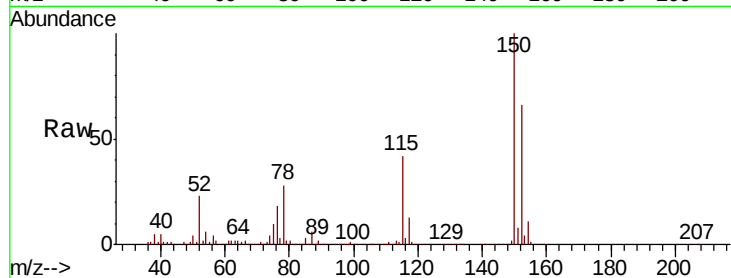


#72

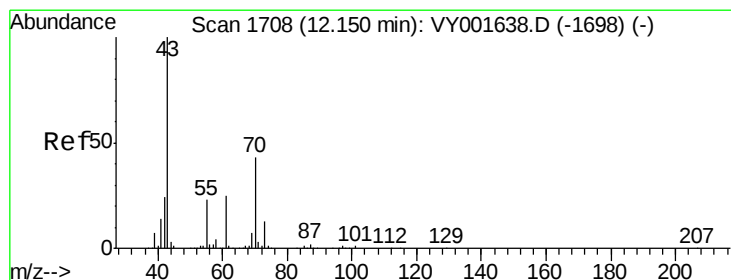
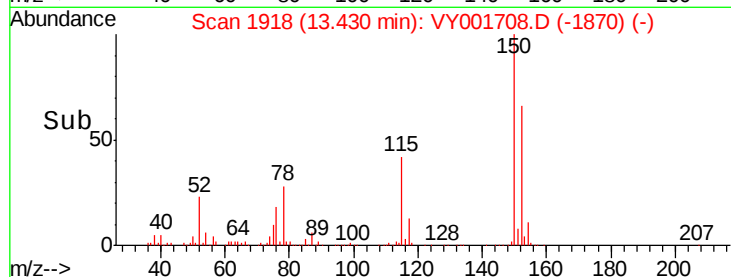
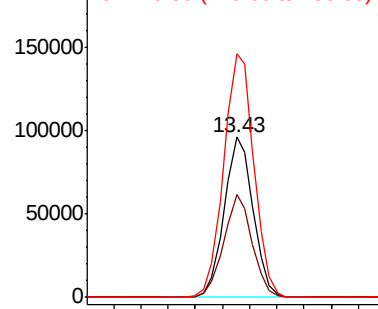
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001708.D
Acq: 19 Feb 2020 18:43

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:152 Resp: 143927
Ion Ratio Lower Upper
152 100
115 63.2 31.4 94.2
150 158.4 0.0 407.2



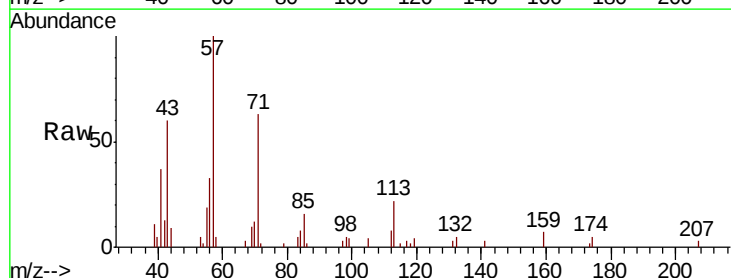
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



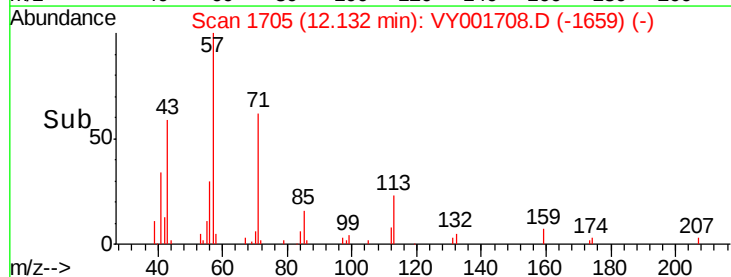
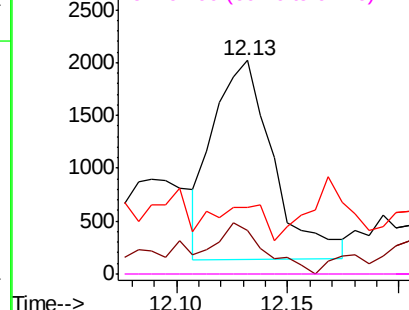
#74

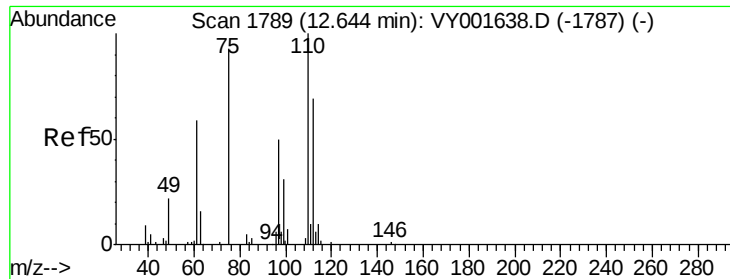
N-ethyl acetate
Concen: 1.019 ug/l
RT: 12.13 min Scan# 1705
Delta R.T. -0.02 min
Lab File: VY001708.D
Acq: 19 Feb 2020 18:43

Tgt Ion: 43 Resp: 3566
Ion Ratio Lower Upper
43 100
70 21.2 35.9 53.9#
55 0.0 18.3 27.5#
61 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 70.00 (69.70 to 70.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 61.00 (60.70 to 61.70): VY0





#76

1,2,3-Trichloropropane

Concen: 46.845 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

Instrument :

MSVOA_Y

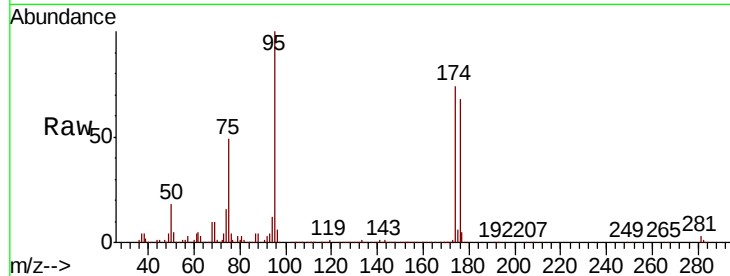
ClientSampled :

Tot Ion: 75 Resp: 77343

Ion Ratio Lower Upper

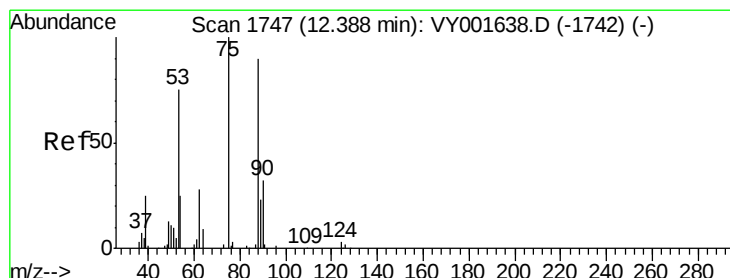
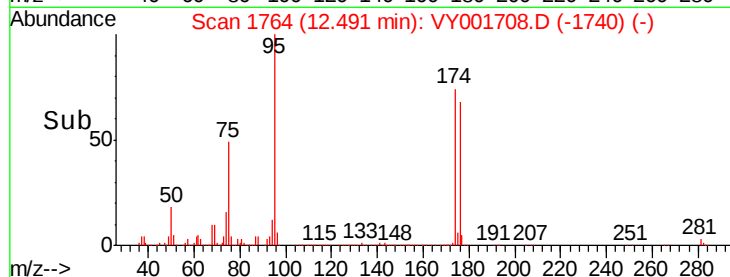
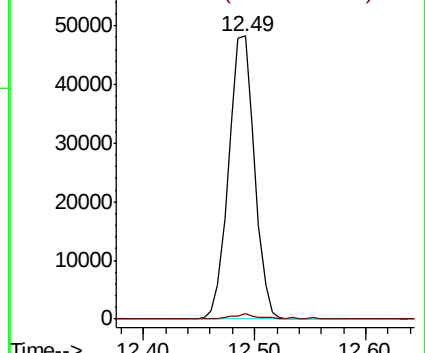
75 100

77 2.1 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: 88.874 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY001708.D

Acq: 19 Feb 2020 18:43

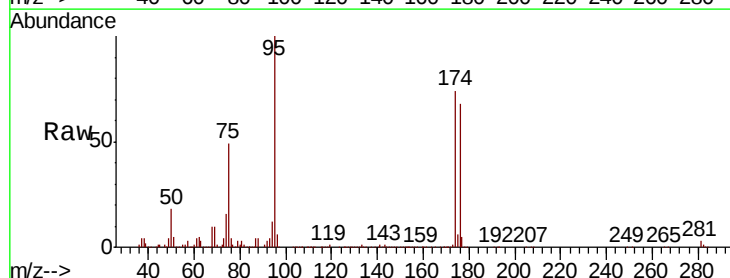
Tgt Ion: 75 Resp: 77343

Ion Ratio Lower Upper

75 100

53 0.2 64.5 96.7#

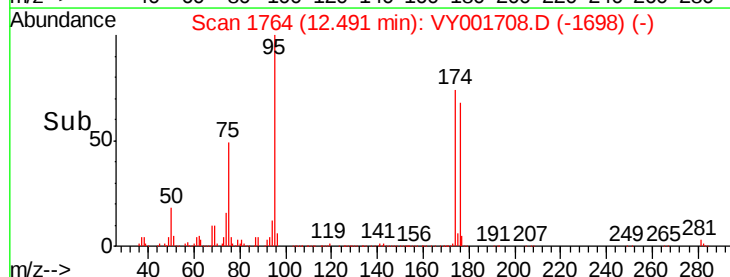
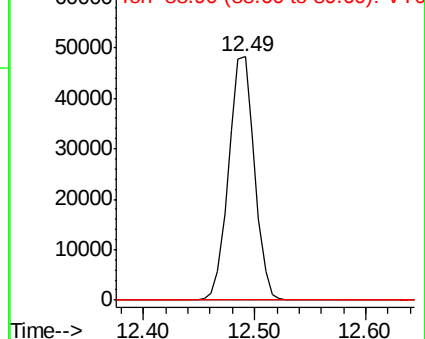
89 0.1 36.3 54.5#

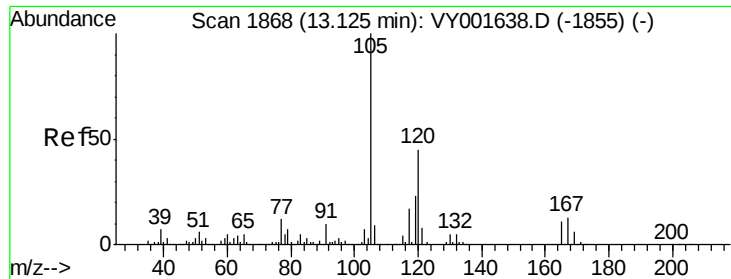


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#84
 1,2,4-Trimethylbenzene
 Concen: 2.230 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VY001708.D
 Acq: 19 Feb 2020 18:43

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:105 Resp: 20181
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.4 67.3

