

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY101719\
 Data File : VY000338.D
 Acq On : 17 Oct 2019 12:02
 Operator : SY/MD
 Sample : K5153-01RE
 Misc : 6.43G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 17 17:59:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 17 02:03:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	291651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	489048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	398990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	150468	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	161739	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	7.73	113	139982	47.45	ug/l	0.00
Spiked Amount			Recovery	=	94.90%	
50) Toluene-d8	10.19	98	554790	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
62) 4-Bromofluorobenzene	12.48	95	167675	38.89	ug/l	0.00
Spiked Amount			Recovery	=	77.78%	

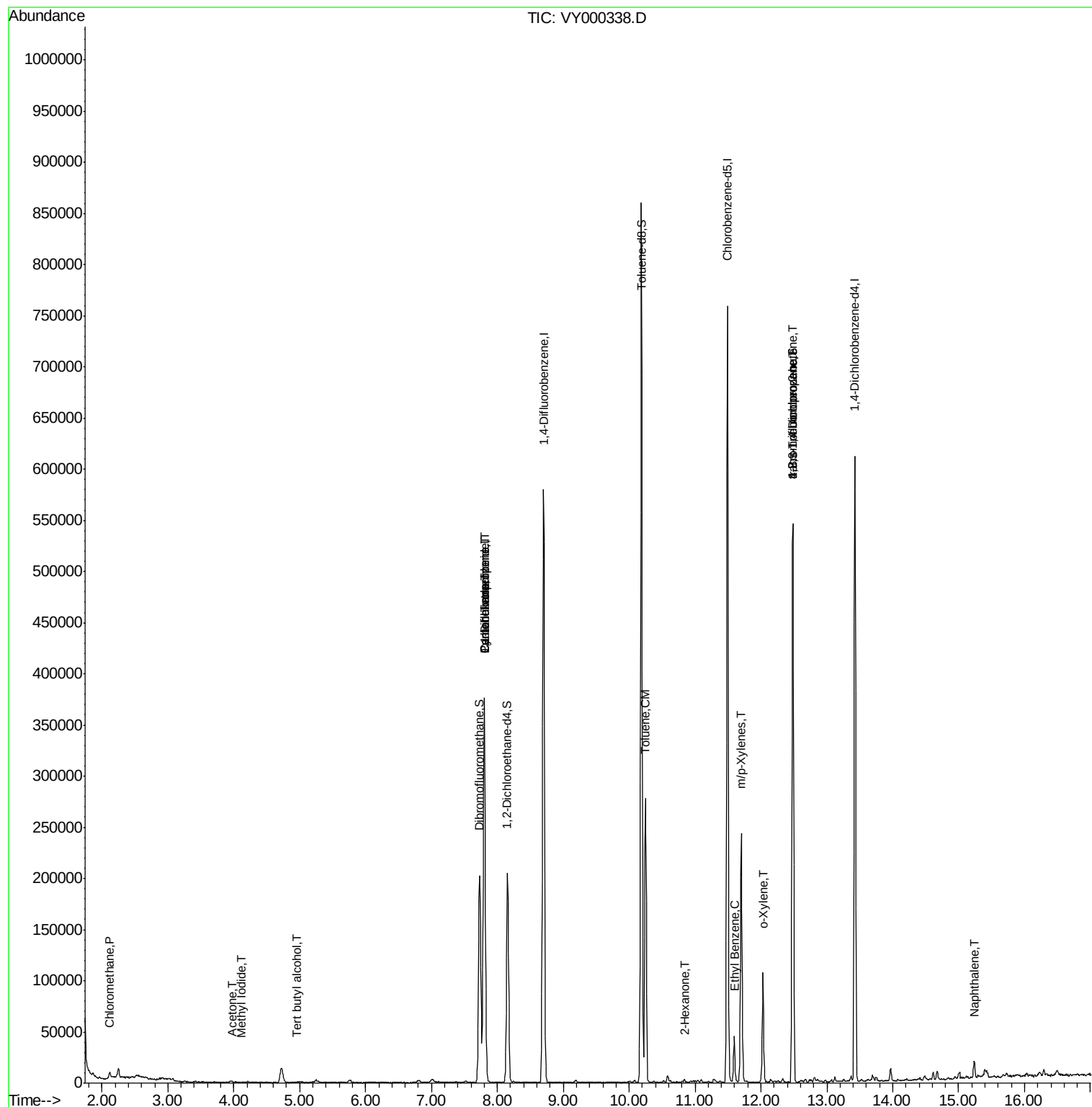
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	83	Below Cal	#	41
3) Chloromethane	2.12	50	4105	1.152	ug/l	93
10) Methyl Iodide	4.11	142	544	1.311	ug/l #	53
11) Tert butyl alcohol	4.96	59	799	2.482	ug/l #	73
16) Acetone	3.96	43	2195	2.203	ug/l	98
20) Methylene Chloride	4.72	84	10873	Below Cal		89
31) Cyclohexane	7.80	56	6611	1.123	ug/l #	23
36) 1,1-Dichloropropene	7.80	75	23113	4.827	ug/l #	49
38) Carbon Tetrachloride	7.80	117	29341	6.329	ug/l #	17
52) Toluene	10.25	92	112149	12.766	ug/l	97
59) 2-Hexanone	10.85	43	2057	1.054	ug/l	83
67) Ethyl Benzene	11.60	91	29434	1.886	ug/l	100
68) m/p-Xylenes	11.70	106	74311	12.453	ug/l	100
69) o-Xylene	12.03	106	28380	4.985	ug/l	98
76) 1,2,3-Trichloropropane	12.48	75	89144	48.180	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	89144	105.415	ug/l #	14
95) Naphthalene	15.23	128	11614	1.606	ug/l	97

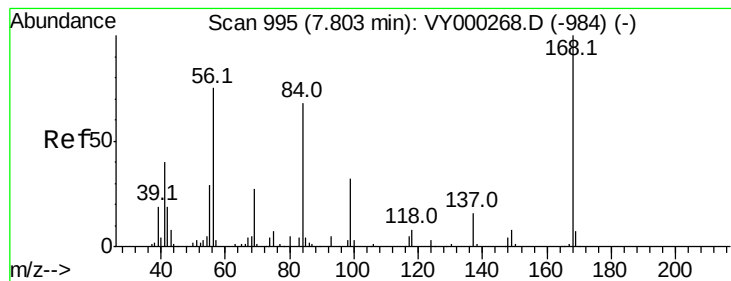
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

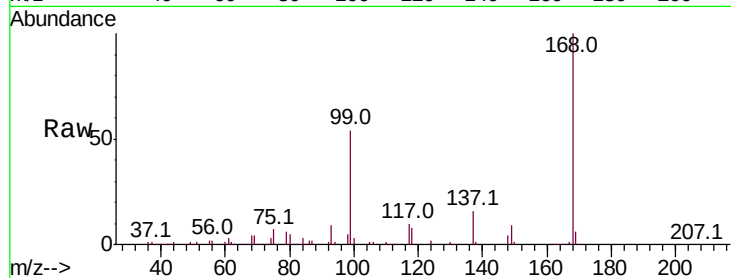
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 291651

Ion Ratio Lower Upper

168 100

99 54.0 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000338.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000338.D (-946) (-)

7.80

150000

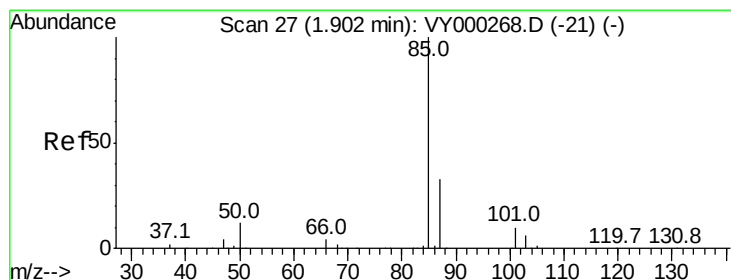
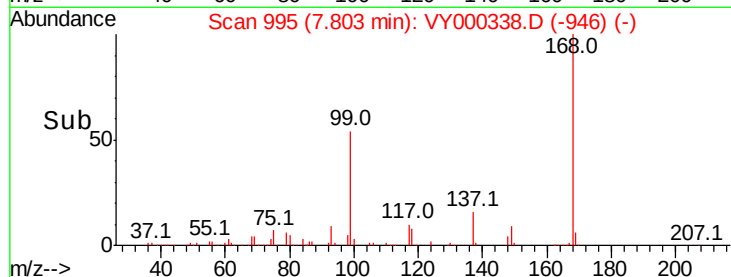
100000

50000

0

7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY000338.D

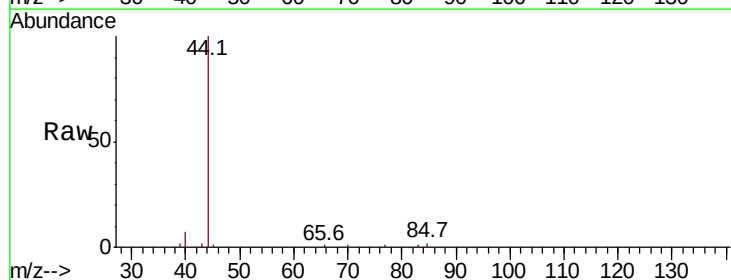
Acq: 17 Oct 2019 12:02

Tgt Ion: 85 Resp: 83

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000338.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY000338.D (-1) (-)

1.90

100

80

60

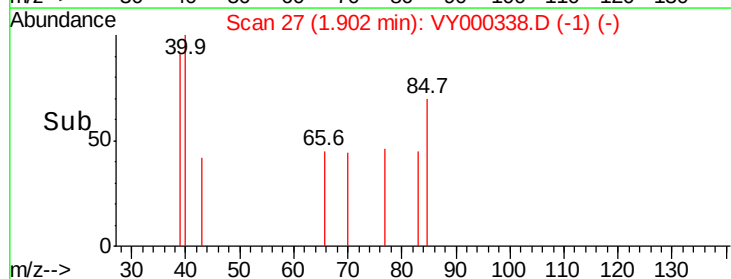
40

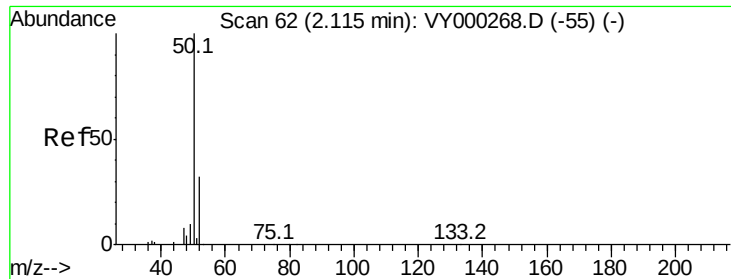
20

0

1.88 1.90 1.92

Time-->





#3

Chloromethane

Concen: 1.152 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

Instrument :

MSVOA_Y

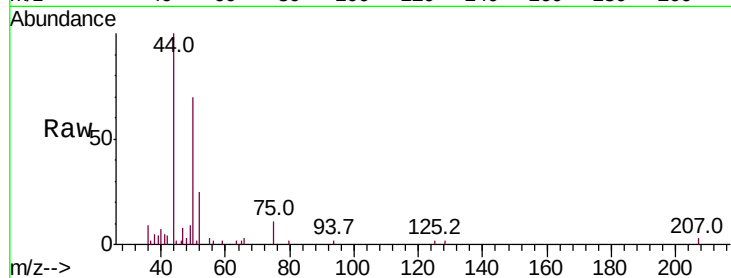
ClientSampleId :

Tot Ion: 50 Resp: 4105

Ion Ratio Lower Upper

50 100

52 35.4 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0

2.12

2500

2000

1500

1000

500

0

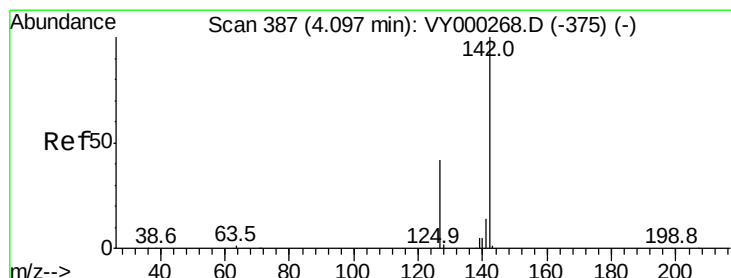
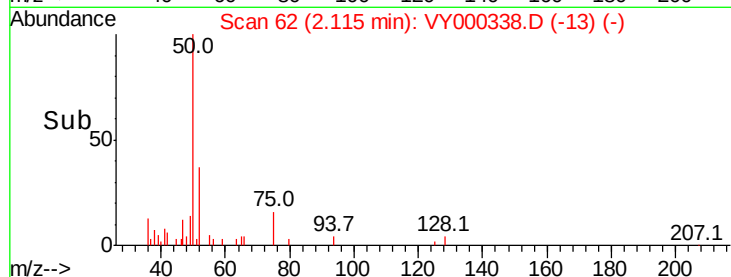
Time-->

2.05

2.10

2.15

2.20



#10

Methyl Iodide

Concen: 1.311 ug/l

RT: 4.11 min Scan# 390

Delta R.T. 0.02 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

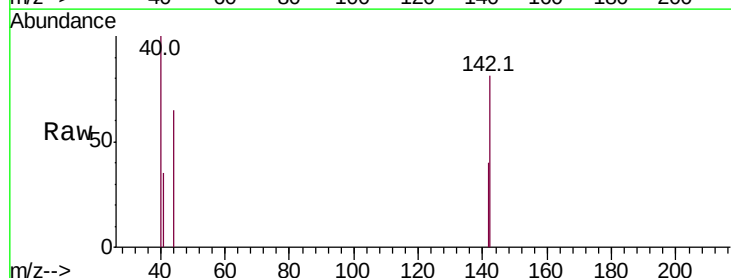
Tgt Ion: 142 Resp: 544

Ion Ratio Lower Upper

142 100

127 9.9 33.9 50.9#

141 0.0 11.2 16.8#



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

4.11

400

300

200

100

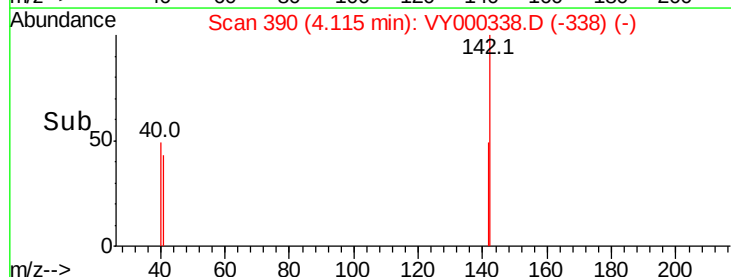
0

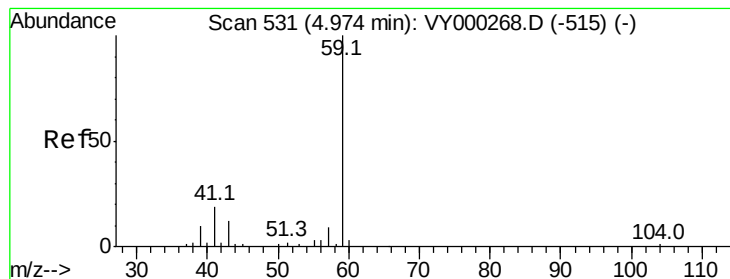
Time-->

4.05

4.10

4.15





#11

Tert butyl alcohol

Concen: 2.482 ug/l

RT: 4.96 min Scan# 528

Delta R.T. -0.02 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

Instrument :

MSVOA_Y

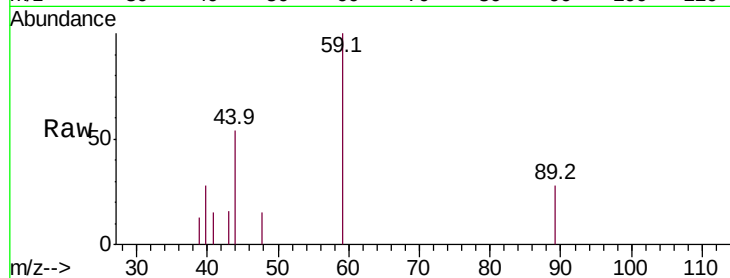
ClientSampleId :

Tot Ion: 59 Resp: 799

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0

4.96

400

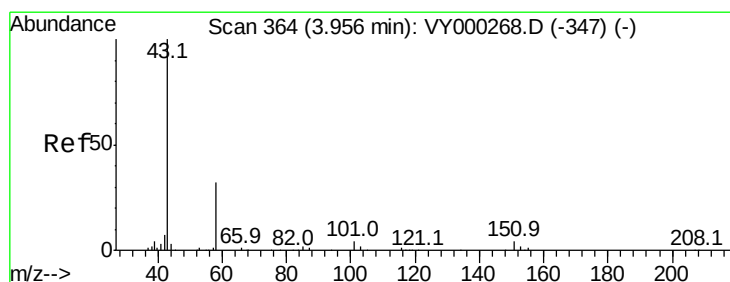
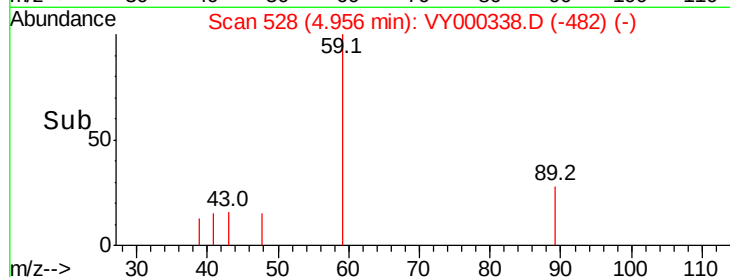
300

200

100

0

Time-->



#16

Acetone

Concen: 2.203 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000338.D

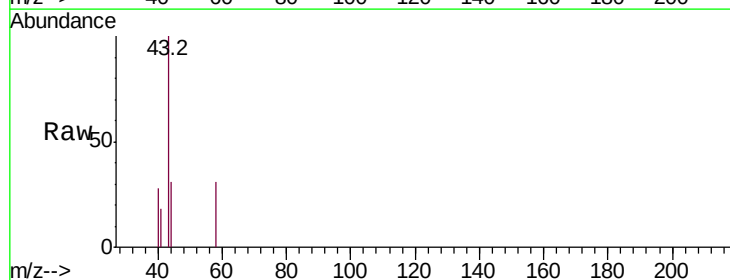
Acq: 17 Oct 2019 12:02

Tgt Ion: 43 Resp: 2195

Ion Ratio Lower Upper

43 100

58 31.0 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

800

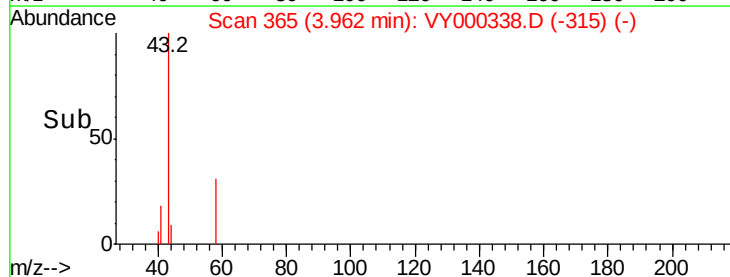
600

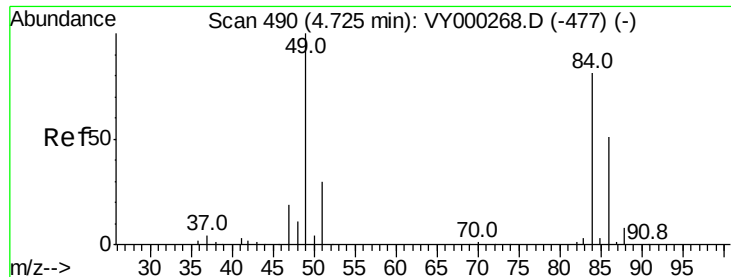
400

200

0

Time-->

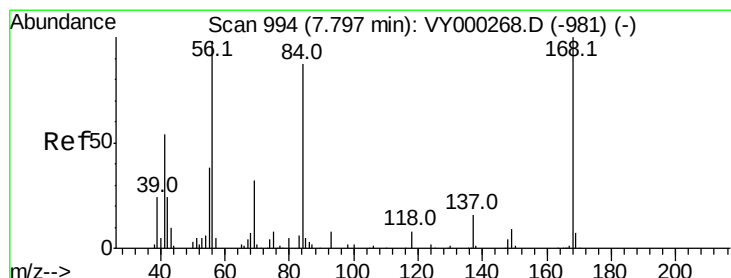
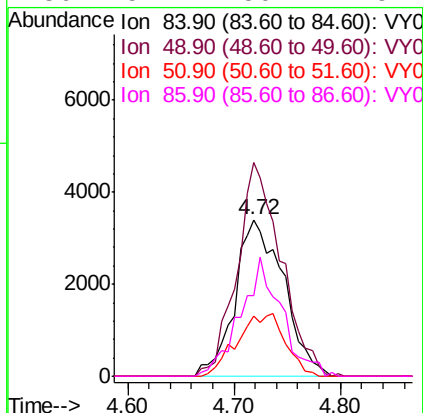
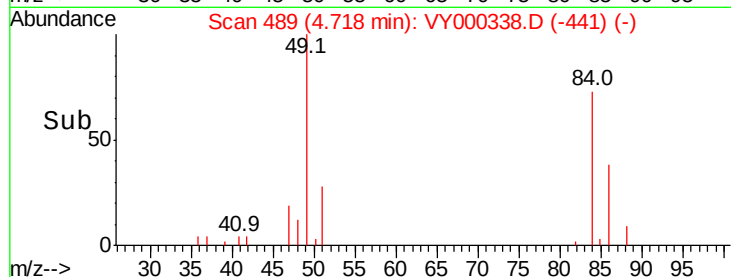
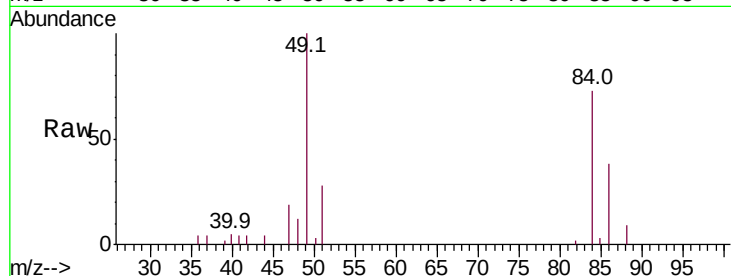




#20
Methylene Chloride
Concen: Below Cal
RT: 4.72 min Scan# 489
Delta R.T. -0.01 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

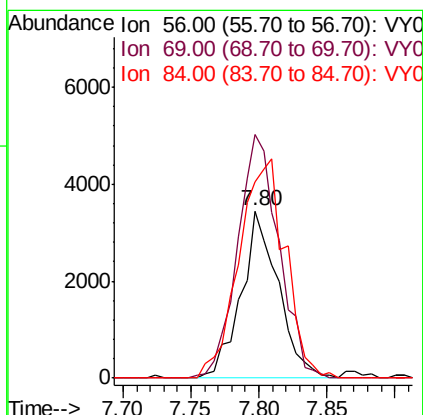
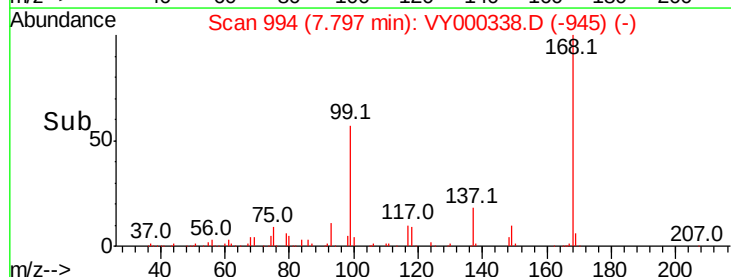
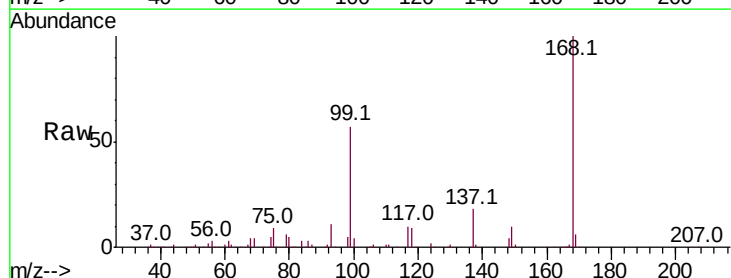
Instrument :
MSVOA_Y
ClientSampleId :

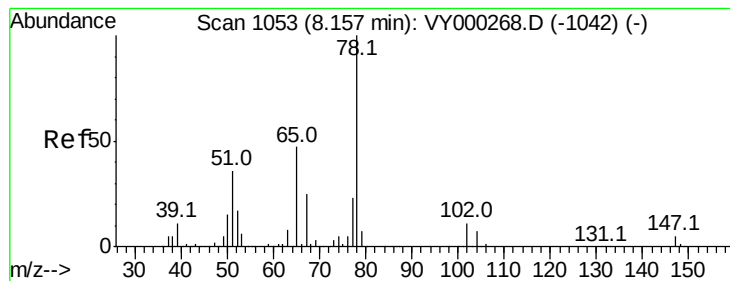
Tot Ion: 84 Resp: 10873
Ion Ratio Lower Upper
84 100
49 136.4 99.0 148.4
51 38.6 29.3 43.9
86 51.4 50.2 75.4



#31
Cyclohexane
Concen: 1.123 ug/l
RT: 7.80 min Scan# 994
Delta R.T. 0.00 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Tgt Ion: 56 Resp: 6611
Ion Ratio Lower Upper
56 100
69 145.7 26.3 39.5#
84 117.3 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 52.573 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

Instrument :

MSVOA_Y

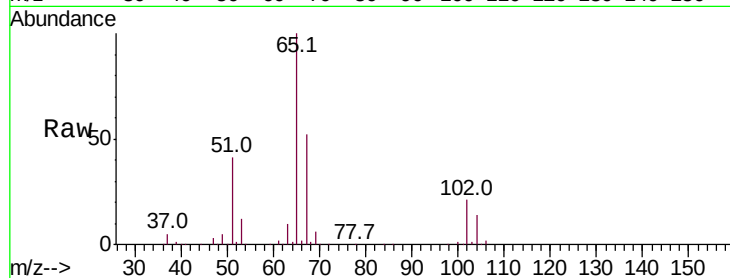
ClientSampleId :

Tot Ion: 65 Resp: 161739

Ion Ratio Lower Upper

65 100

67 52.6 0.0 109.4



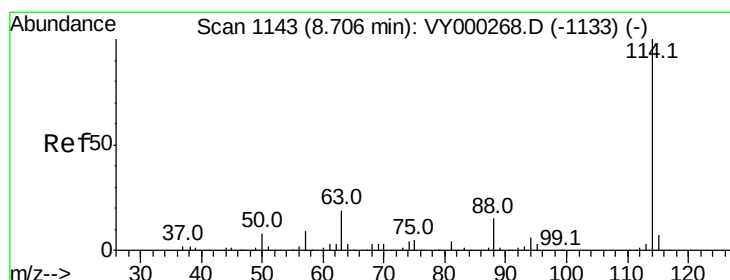
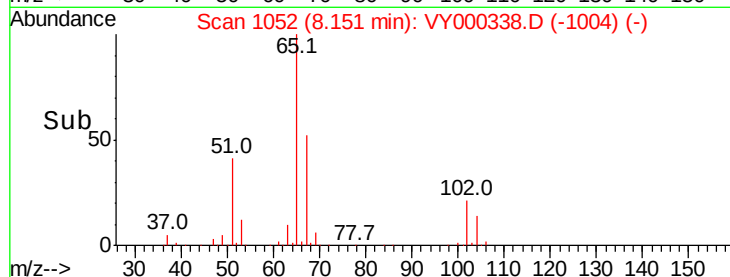
Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

8.15

8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

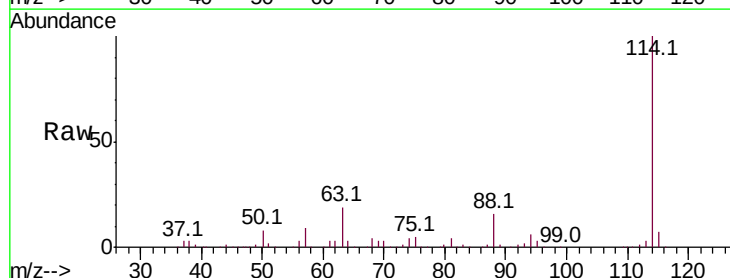
Tgt Ion: 114 Resp: 489048

Ion Ratio Lower Upper

114 100

63 19.3 0.0 37.2

88 15.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

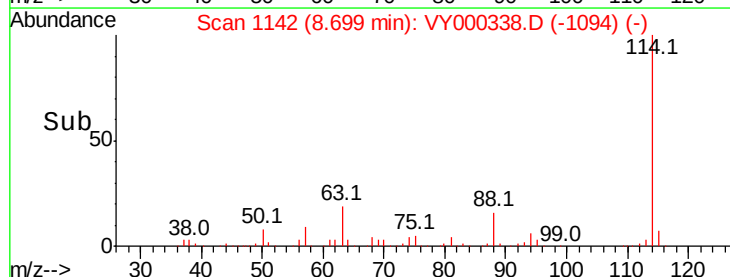
Ion 63.00 (62.70 to 63.70): VY0

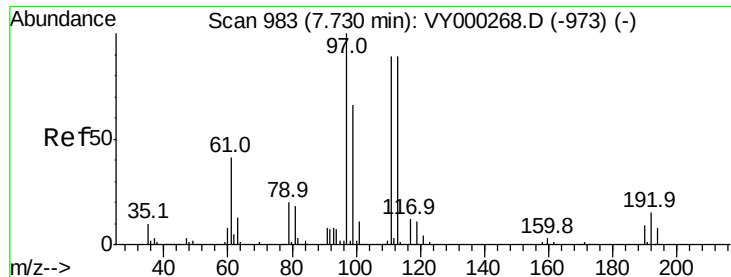
Ion 87.90 (87.60 to 88.60): VY0

8.70

8.60 8.80

Time-->





#35

Dibromofluoromethane

Concen: 47.452 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.00 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

Instrument :
MSVOA_Y
ClientSampleId :

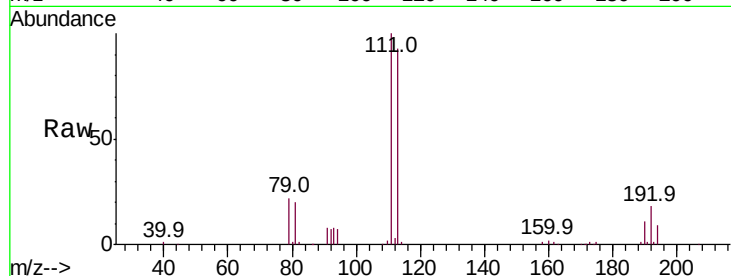
Tot Ion:113 Resp: 139982

Ion Ratio Lower Upper

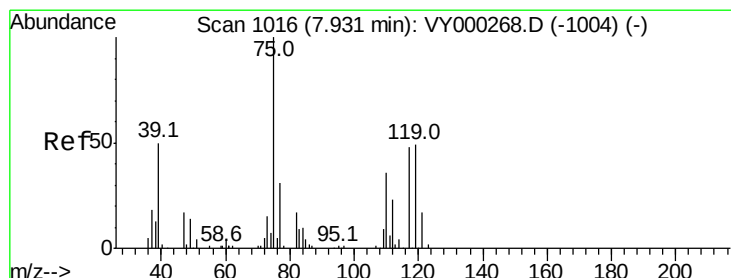
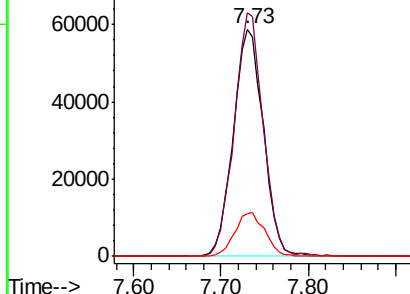
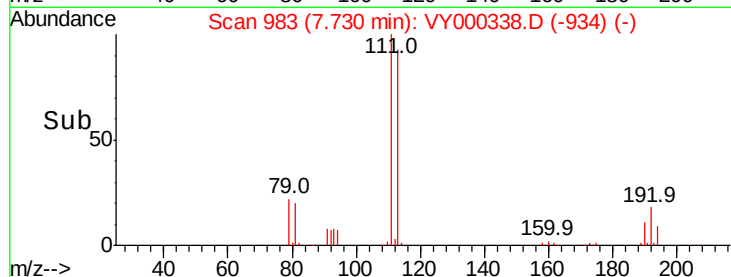
113 100

111 104.2 81.6 122.4

192 19.4 15.3 22.9



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: 4.827 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

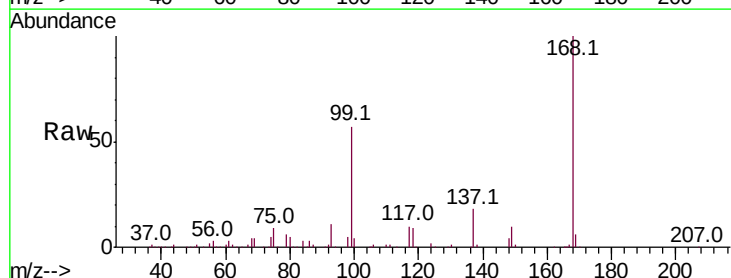
Tgt Ion: 75 Resp: 23113

Ion Ratio Lower Upper

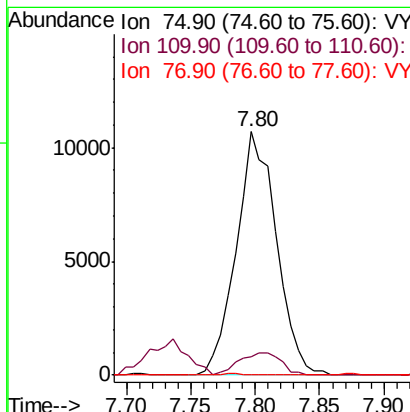
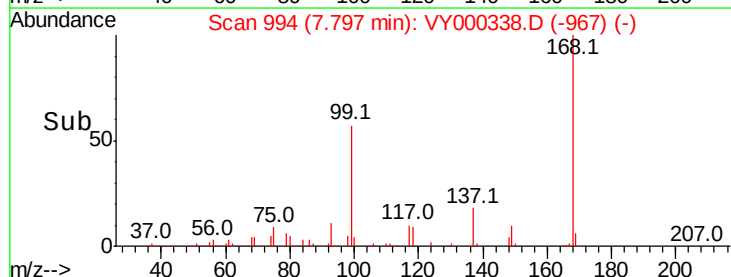
75 100

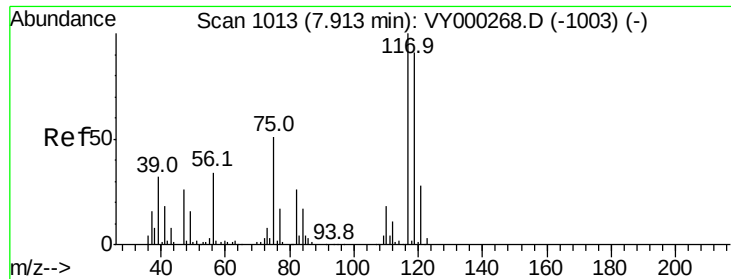
110 9.8 18.4 55.4#

77 0.0 25.0 37.6#



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

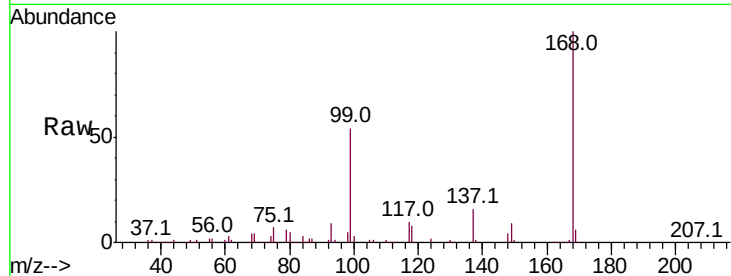




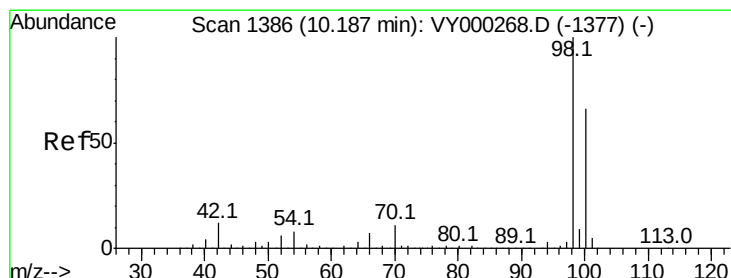
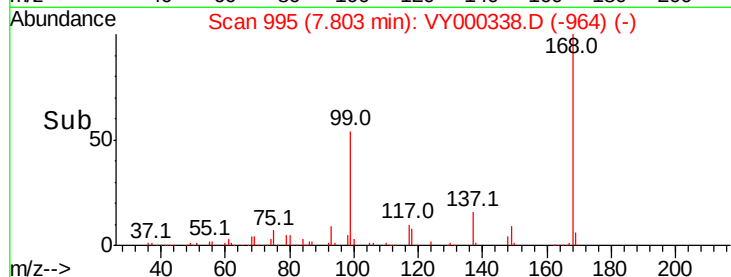
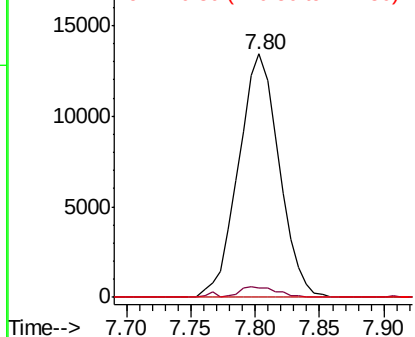
#38
Carbon Tetrachloride
Concen: 6.329 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.11 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:117 Resp: 29341
Ion Ratio Lower Upper
117 100
119 3.9 72.8 109.2#
121 0.0 22.2 33.2#

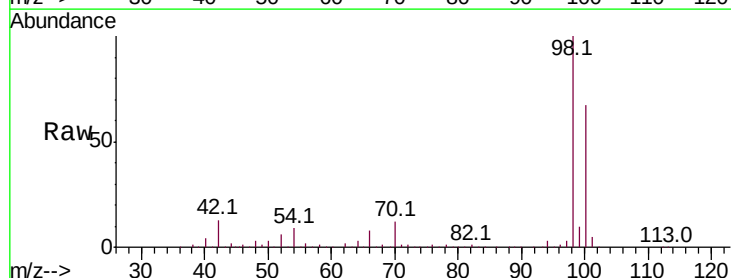


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

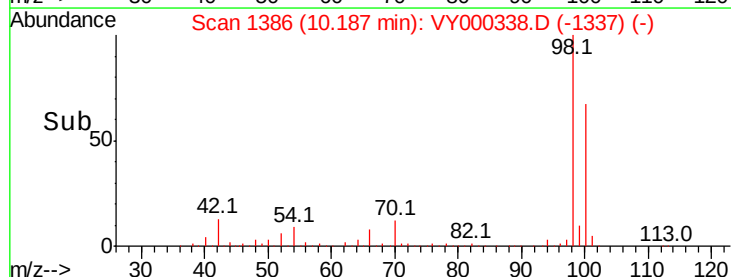
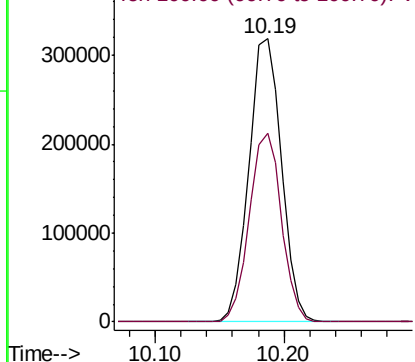


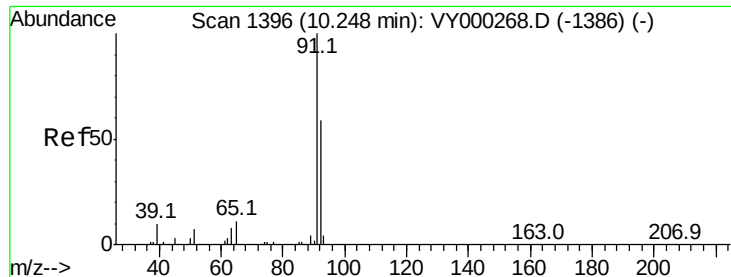
#50
Toluene-d8
Concen: 48.890 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. 0.00 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Tgt Ion: 98 Resp: 554790
Ion Ratio Lower Upper
98 100
100 65.5 52.8 79.2



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





#52

Toluene

Concen: 12.766 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY000338.D

Acq: 17 Oct 2019 12:02

Instrument :

MSVOA_Y

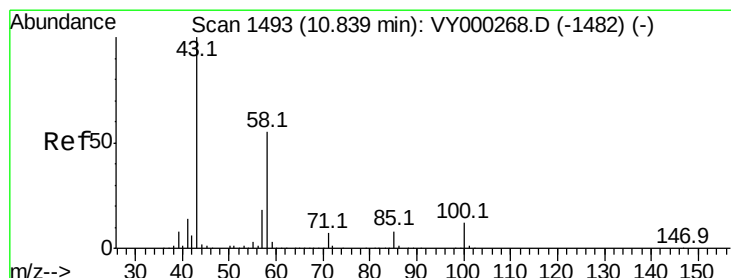
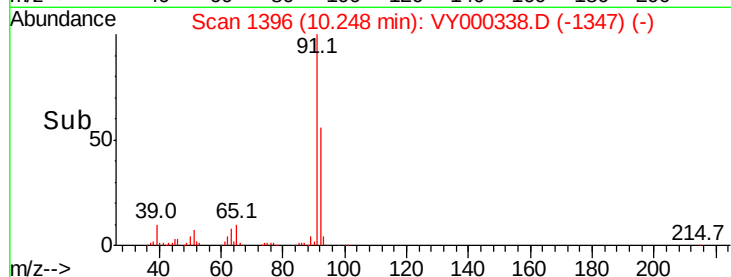
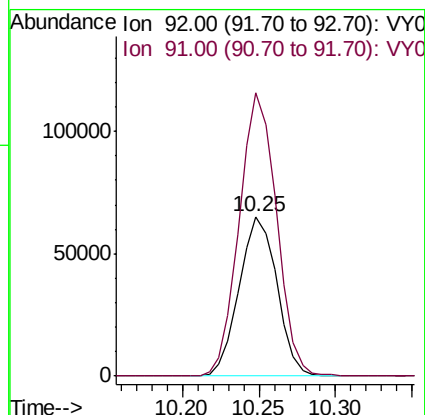
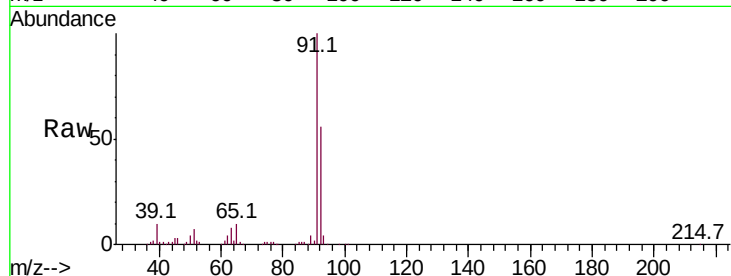
ClientSampleId :

Tot Ion: 92 Resp: 112149

Ion Ratio Lower Upper

92 100

91 175.2 136.6 205.0



#59

2-Hexanone

Concen: 1.054 ug/l

RT: 10.85 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VY000338.D

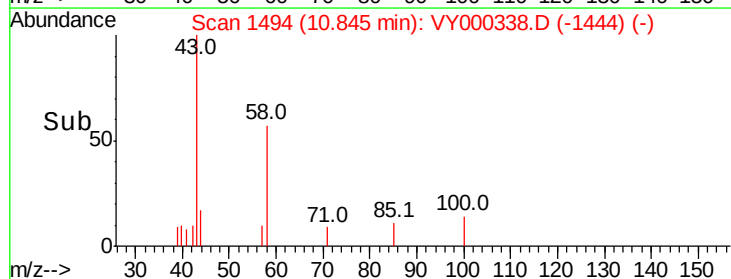
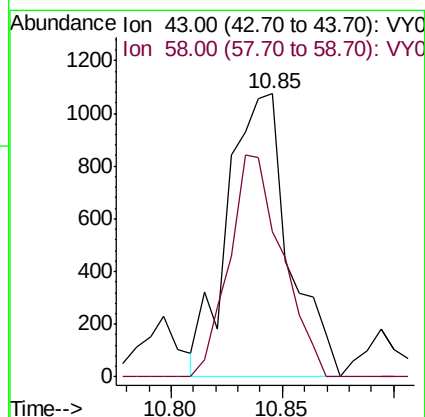
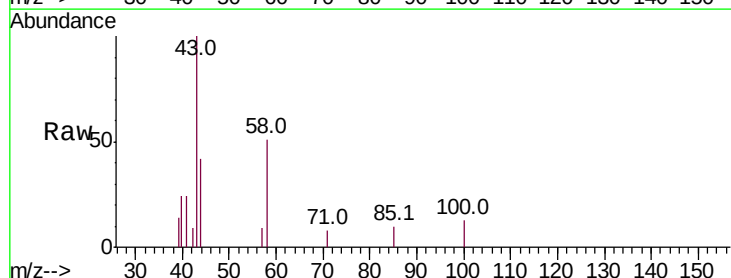
Acq: 17 Oct 2019 12:02

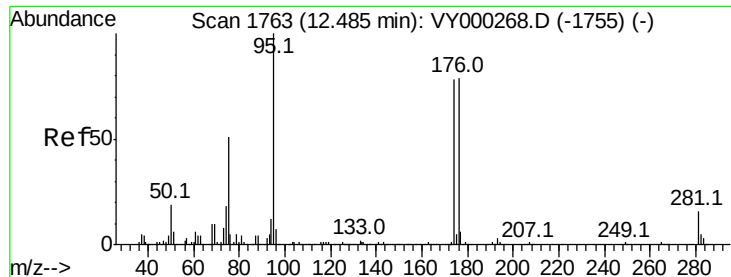
Tgt Ion: 43 Resp: 2057

Ion Ratio Lower Upper

43 100

58 68.0 27.7 83.1

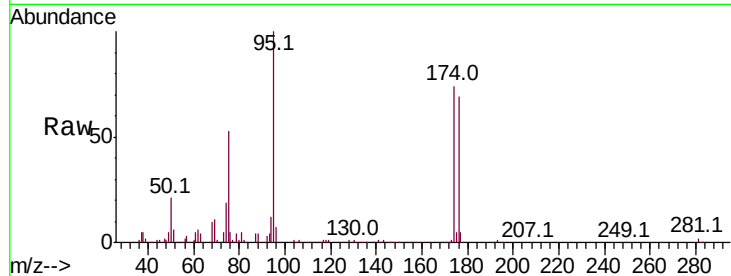




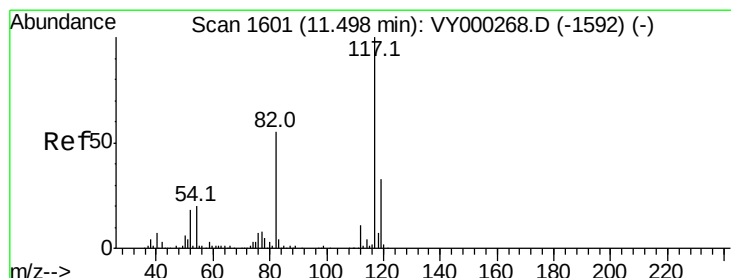
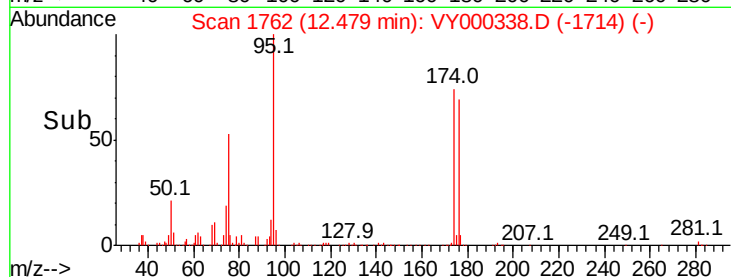
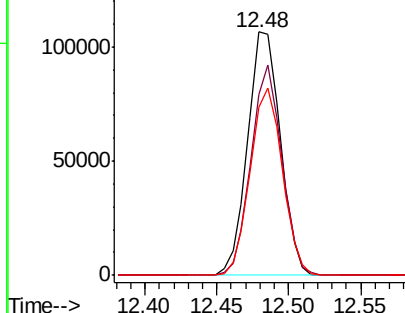
#62
4-Bromofluorobenzene
Concen: 38.893 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	81.2	0.0	159.6
176	75.6	0.0	153.8

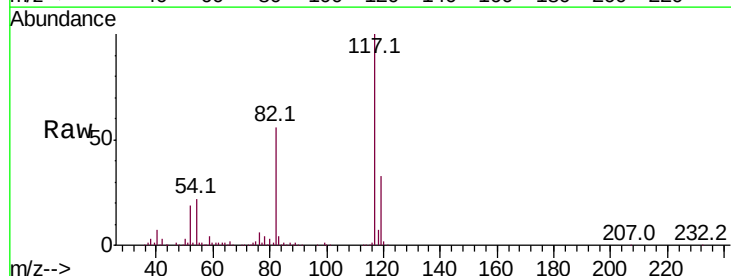


Abundance Ion 94.90 (94.60 to 95.60): VY000268.D (-1755) (-)
Ion 173.80 (173.50 to 174.50): VY000268.D (-1755) (-)
Ion 175.80 (175.50 to 176.50): VY000268.D (-1755) (-)

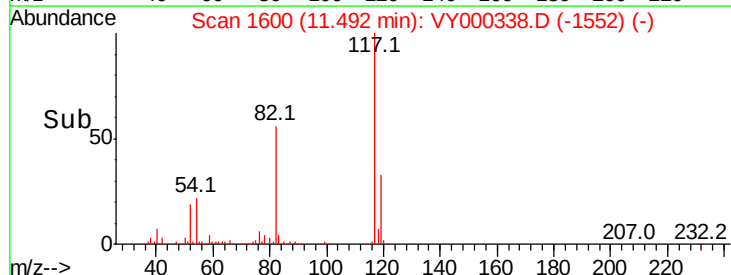
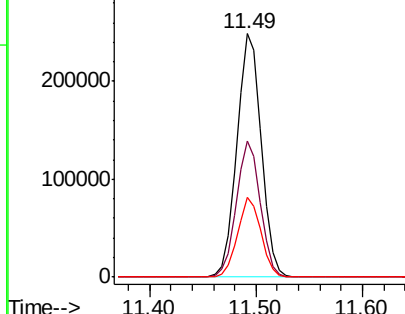


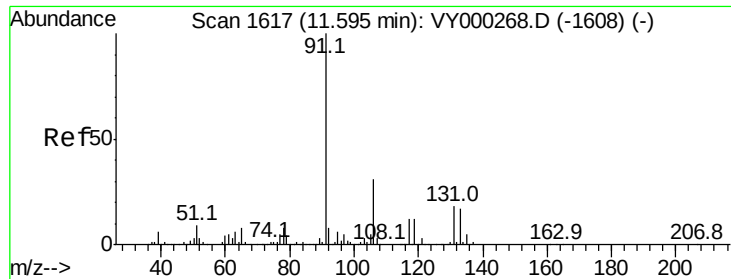
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.8	43.7	65.5
119	32.6	26.6	39.8



Abundance Ion 116.90 (116.60 to 117.60): VY000268.D (-1592) (-)
Ion 82.00 (81.70 to 82.70): VY000268.D (-1592) (-)
Ion 118.90 (118.60 to 119.60): VY000268.D (-1592) (-)

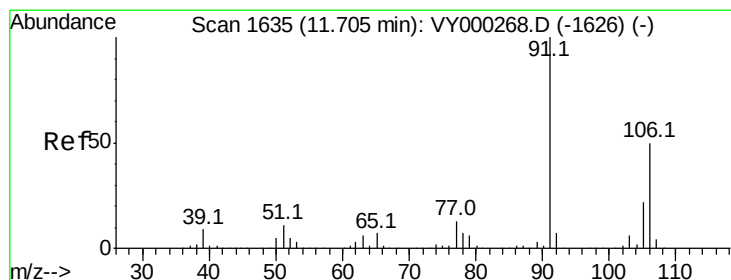
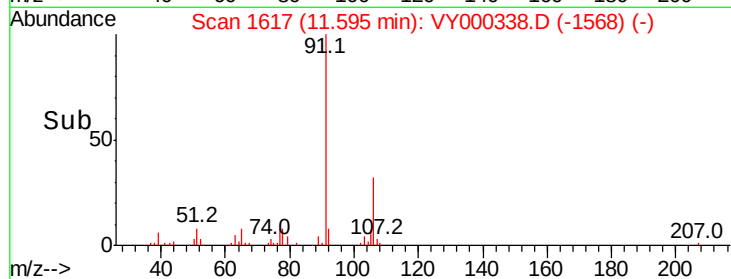
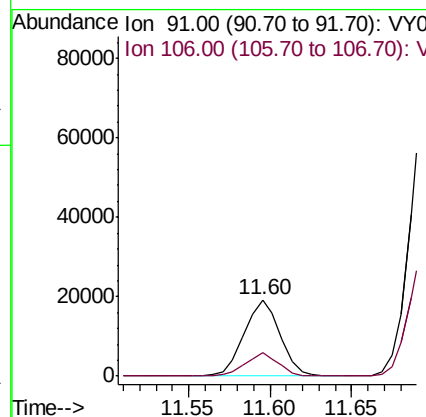
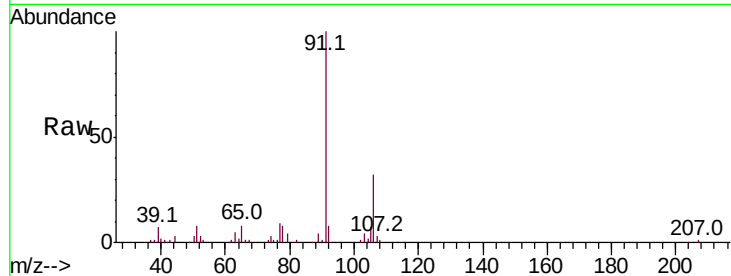




#67
Ethyl Benzene
Concen: 1.886 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

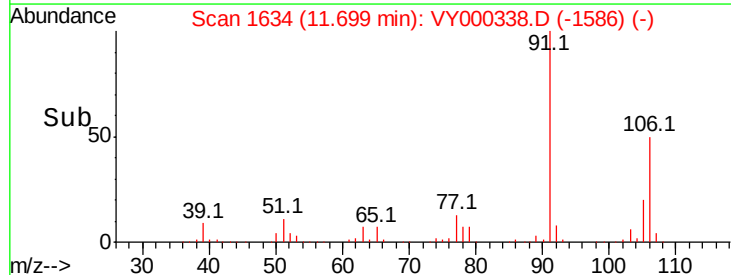
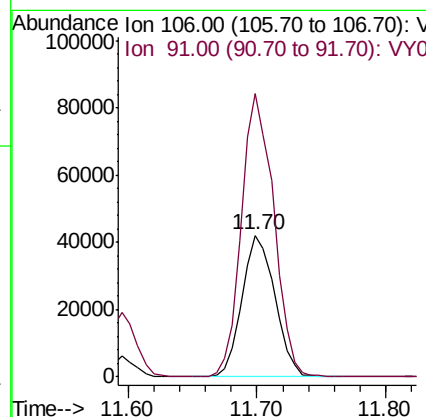
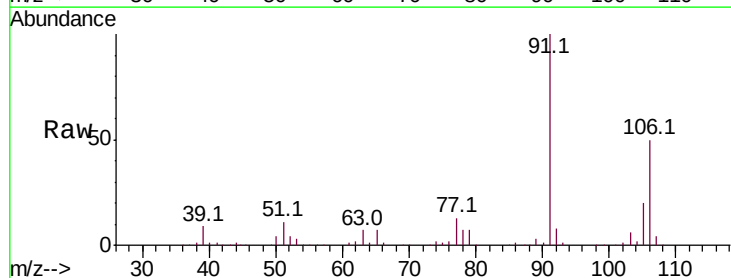
Instrument :
MSVOA_Y
ClientSampled :

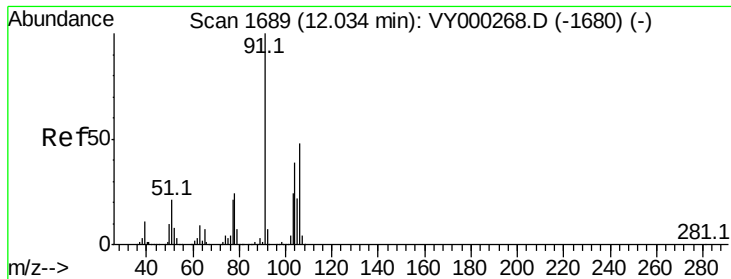
Tot Ion: 91 Resp: 29434
Ion Ratio Lower Upper
91 100
106 31.5 25.0 37.6



#68
m/p-Xylenes
Concen: 12.453 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Tgt Ion: 106 Resp: 74311
Ion Ratio Lower Upper
106 100
91 197.1 157.5 236.3

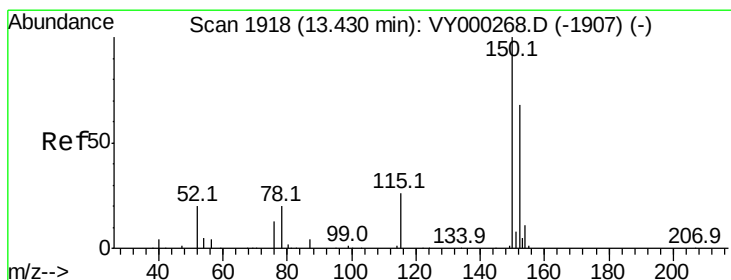
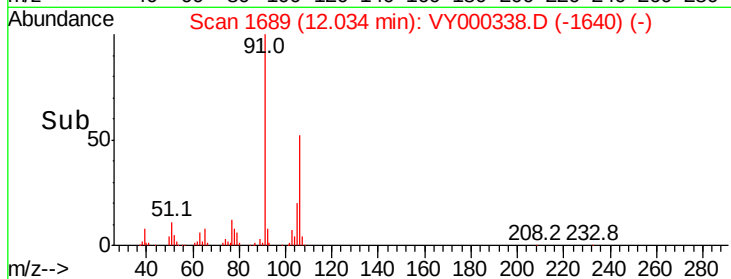
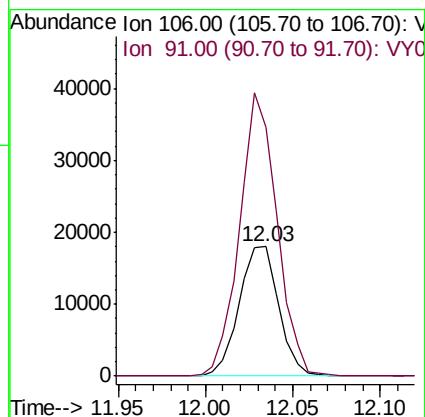
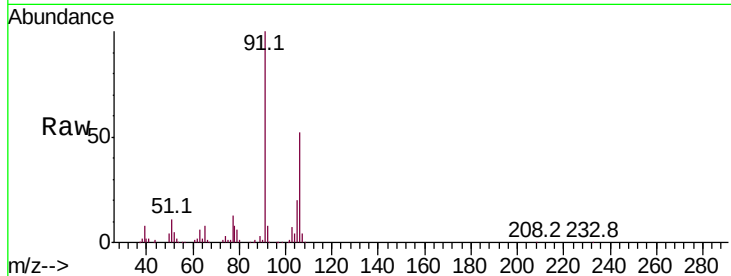




#69
o-Xylene
Concen: 4.985 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

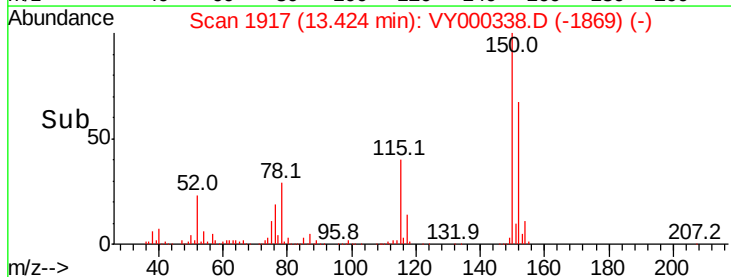
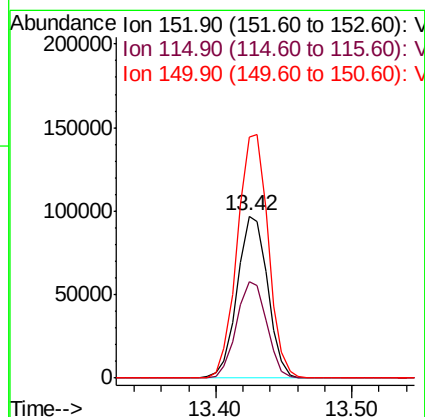
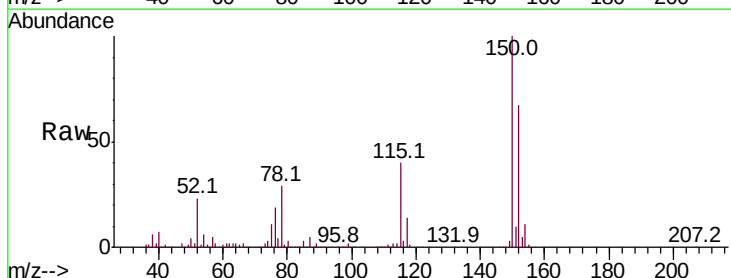
Instrument :
MSVOA_Y
ClientSampleId :

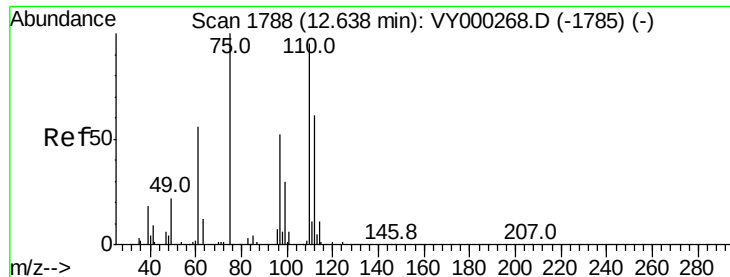
Tot Ion:106 Resp: 28380
Ion Ratio Lower Upper
106 100
91 206.5 104.7 313.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Tgt Ion:152 Resp: 150468
Ion Ratio Lower Upper
152 100
115 59.3 29.3 88.0
150 153.2 0.0 348.4

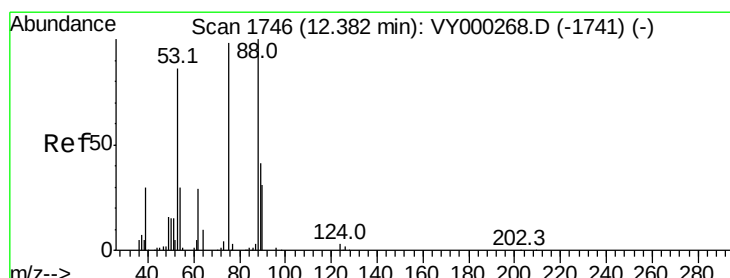
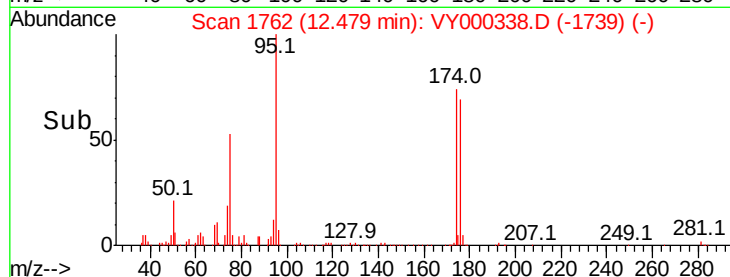
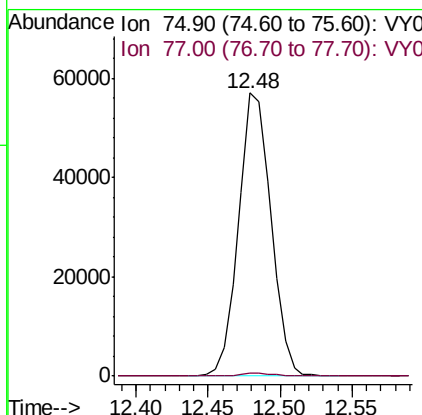
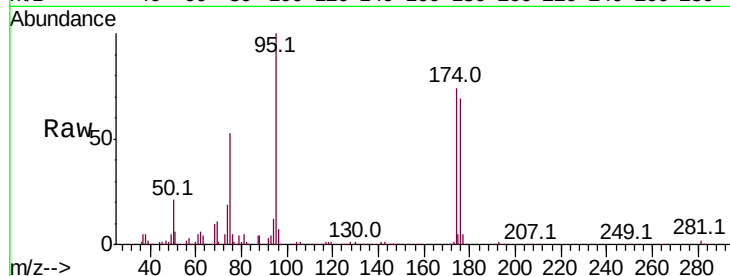




#76
 1,2,3-Trichloropropane
 Concen: 48.180 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.16 min
 Lab File: VY000338.D
 Acq: 17 Oct 2019 12:02

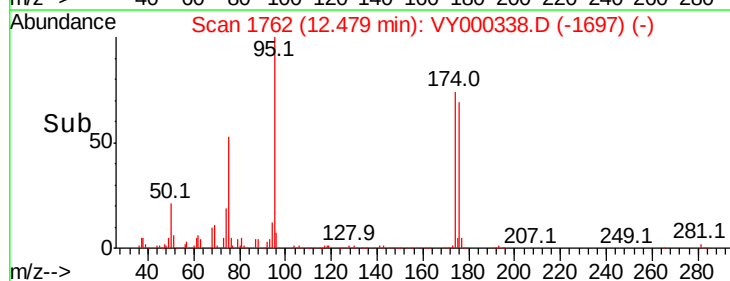
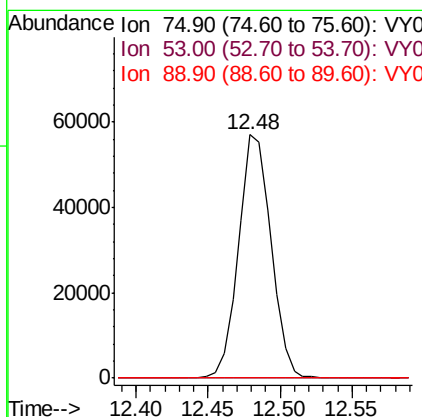
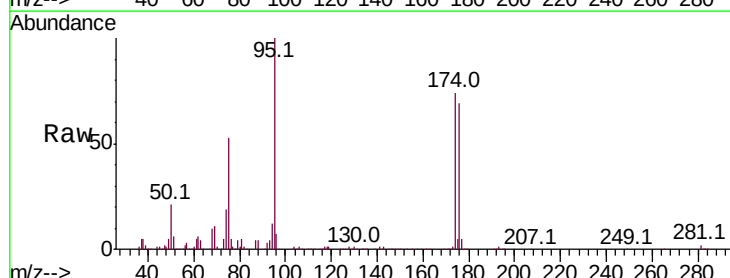
Instrument :
 MSVOA_Y
 ClientSampleId :

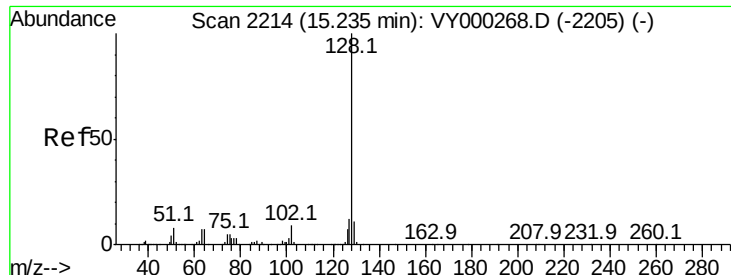
Tot Ion: 75 Resp: 89144
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.415 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.10 min
 Lab File: VY000338.D
 Acq: 17 Oct 2019 12:02

Tgt Ion: 75 Resp: 89144
 Ion Ratio Lower Upper
 75 100
 53 0.1 71.3 106.9#
 89 0.2 35.1 52.7#

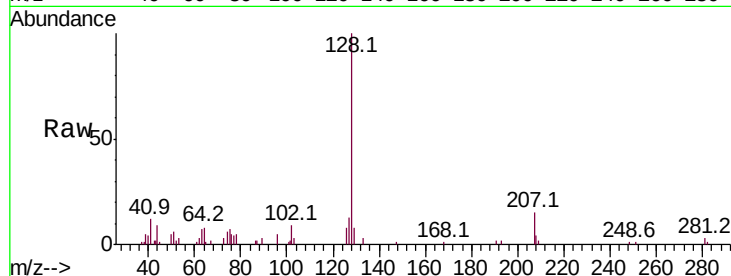




#95
Naphthalene
Concen: 1.606 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY000338.D
Acq: 17 Oct 2019 12:02

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:128 Resp: 11614
Ion Ratio Lower Upper
128 100
127 13.7 9.6 14.4
129 10.3 8.7 13.1



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

