

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112719\
 Data File : VY000818.D
 Acq On : 27 Nov 2019 14:55
 Operator : SY/MD
 Sample : K6076-01
 Misc : 6.07G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 28 22:08:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y112719S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 27 12:40:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	263600	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	484831	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	402109	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	138648	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	160900	57.44	ug/l	0.00
Spiked Amount			Recovery	=	114.88%	
35) Dibromofluoromethane	7.72	113	143277	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
50) Toluene-d8	10.18	98	568482	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.48	95	163523	38.54	ug/l	0.00
Spiked Amount			Recovery	=	77.08%	

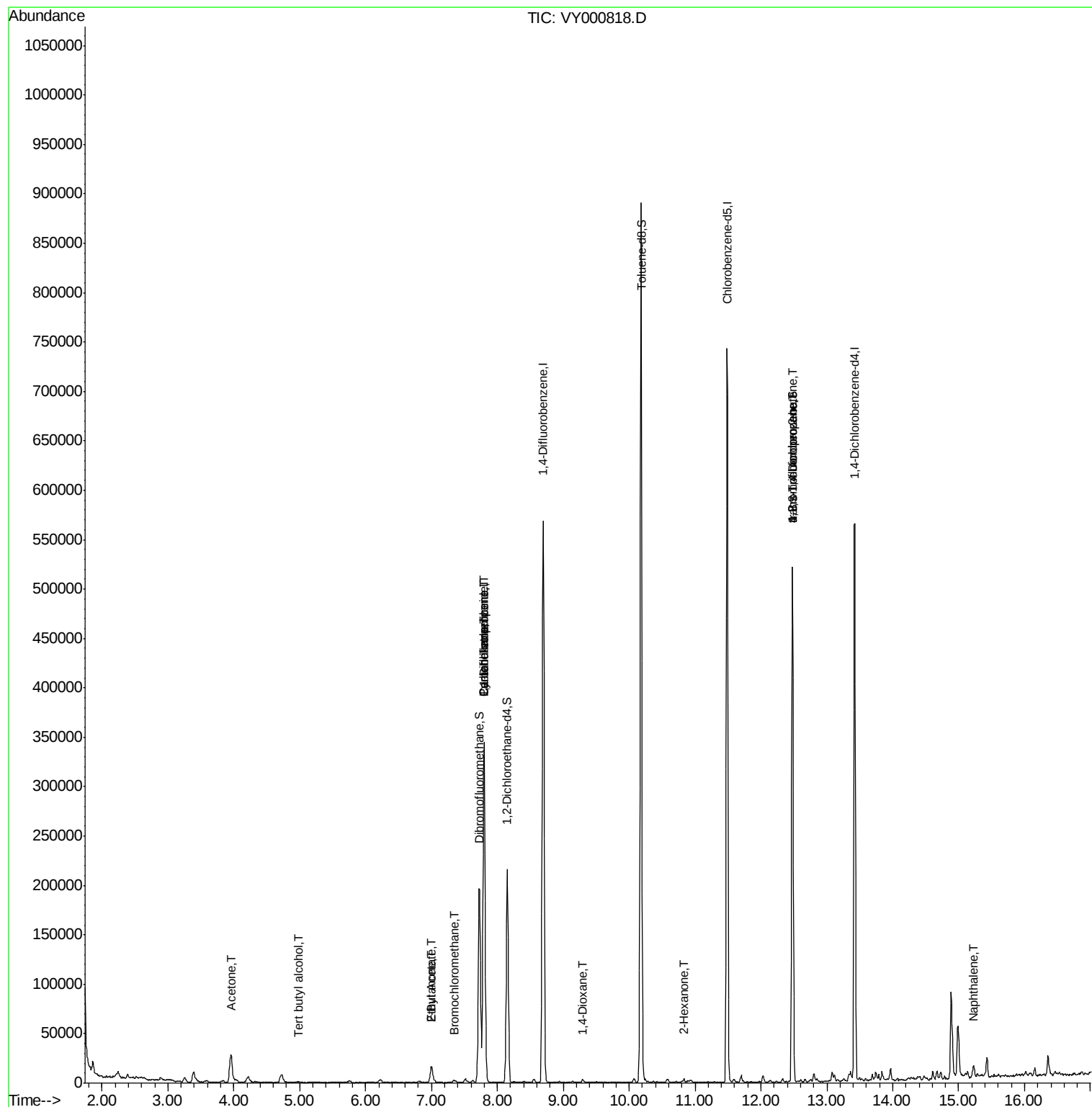
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.66	94	387	Below Cal	#	52
11) Tert butyl alcohol	4.98	59	1371	4.865	ug/l #	82
16) Acetone	3.96	43	50058	77.906	ug/l	99
25) 2-Butanone	6.99	43	23287	19.619	ug/l	98
28) Bromochloromethane	7.34	49	27	2.028	ug/l #	15
31) Cyclohexane	7.80	56	5991	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	21673	4.496	ug/l #	51
37) Ethyl Acetate	6.99	43	23287	8.366	ug/l #	70
38) Carbon Tetrachloride	7.80	117	27038	6.298	ug/l #	16
49) 1,4-Dioxane	9.30	88	30	1.149	ug/l #	1
59) 2-Hexanone	10.83	43	2498	1.265	ug/l	82
76) 1,2,3-Trichloropropane	12.48	75	83338	53.052	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	83338	104.210	ug/l #	18
95) Naphthalene	15.23	128	7387	1.113	ug/l #	94

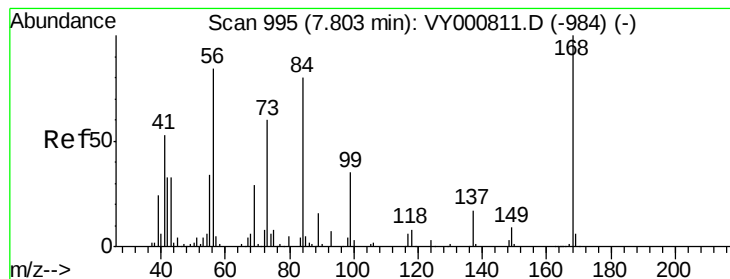
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VY000818.D

Acq: 27 Nov 2019 14:55

Instrument :

MSVOA_Y

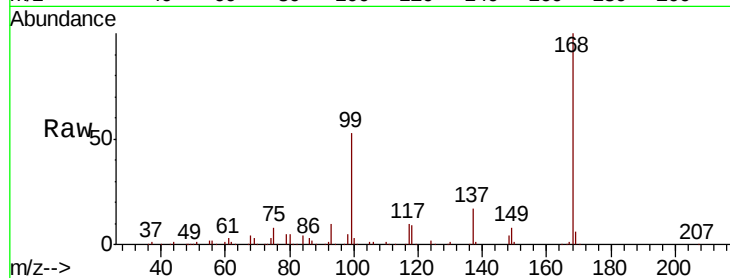
ClientSampleId :

Tot Ion:168 Resp: 263600

Ion Ratio Lower Upper

168 100

99 53.0 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000811.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000811.D (-984) (-)

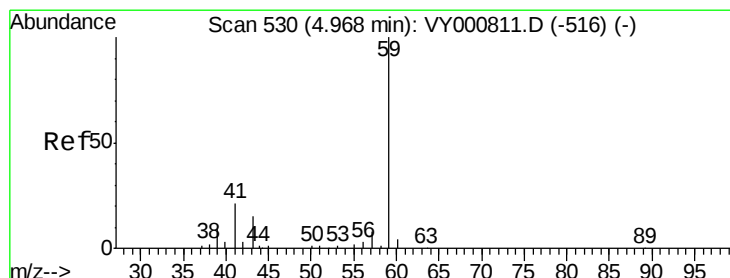
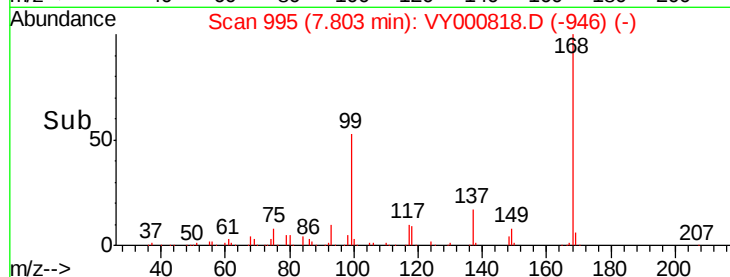
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.865 ug/l

RT: 4.98 min Scan# 532

Delta R.T. 0.01 min

Lab File: VY000818.D

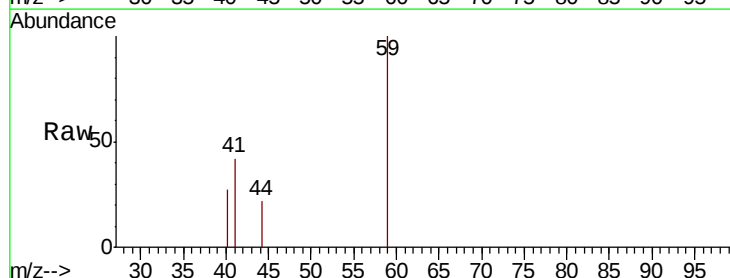
Acq: 27 Nov 2019 14:55

Tgt Ion: 59 Resp: 1371

Ion Ratio Lower Upper

59 100

57 2.9 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY000811.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY000811.D (-516) (-)

4.98

600

500

400

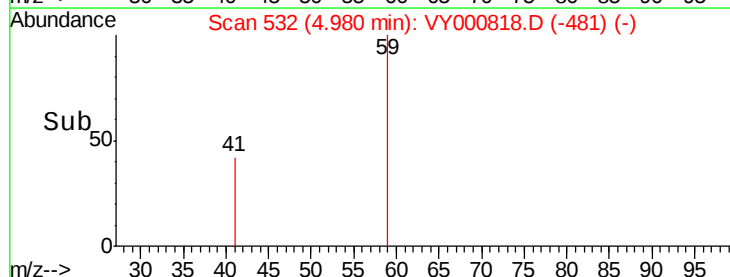
300

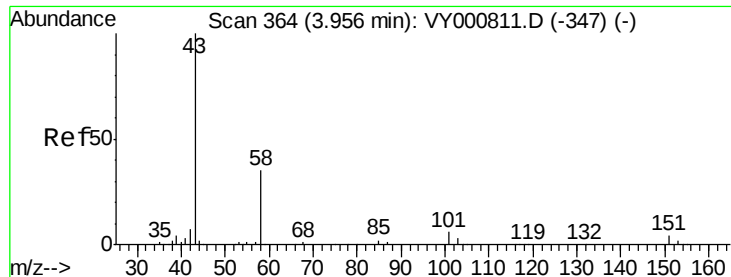
200

100

0

Time-->





#16

Acetone

Concen: 77.906 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

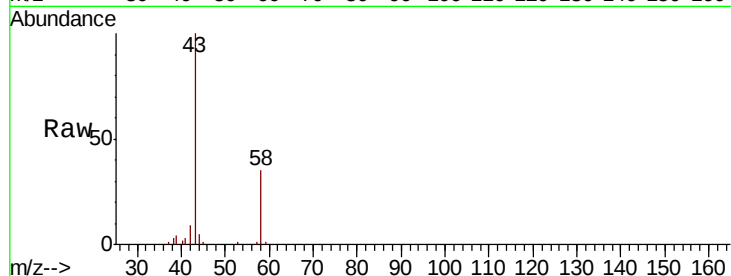
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 50058

Ion Ratio Lower Upper

43 100

58 35.4 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VY000818.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VY000818.D (-315) (-)

20000

15000

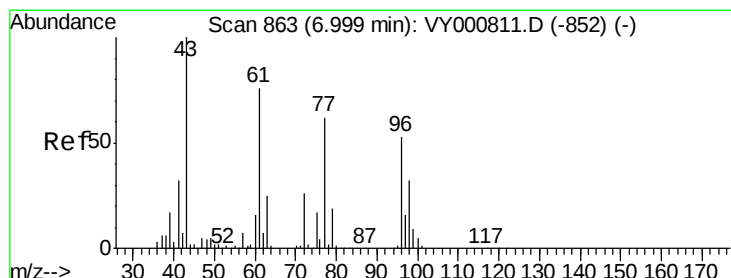
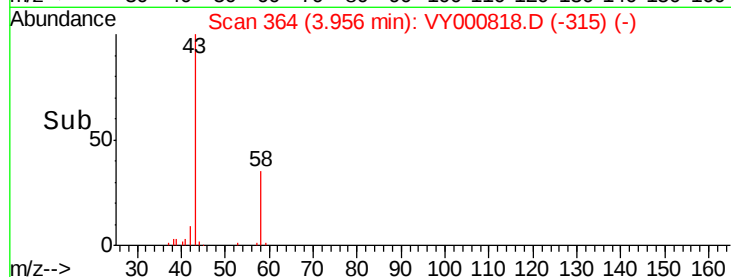
10000

5000

0

3.90 3.96 4.00 4.10

Time-->



#25

2-Butanone

Concen: 19.619 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.01 min

Lab File: VY000818.D

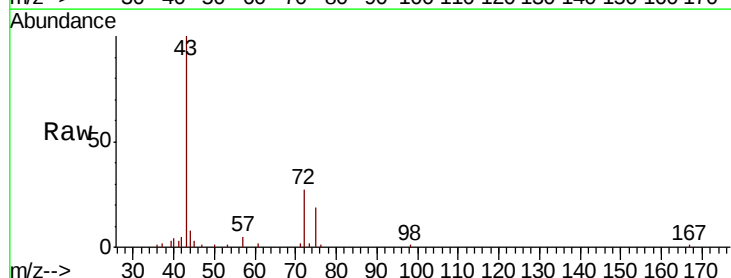
Acq: 27 Nov 2019 14:55

Tgt Ion: 43 Resp: 23287

Ion Ratio Lower Upper

43 100

72 27.3 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VY000818.D (-814) (-)

Ion 72.00 (71.70 to 72.70): VY000818.D (-814) (-)

10000

8000

6000

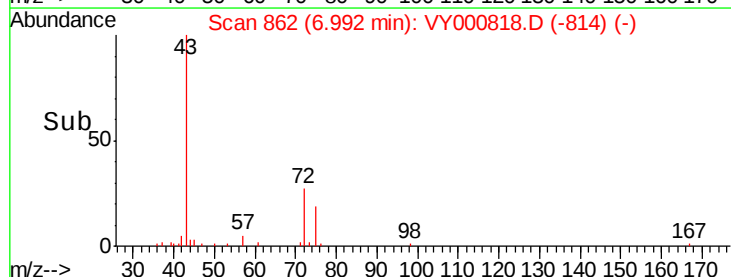
4000

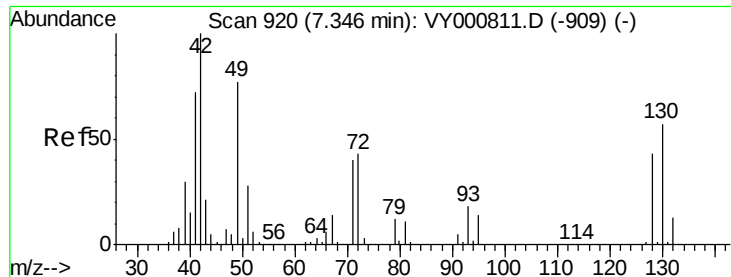
2000

0

6.90 6.99 7.00 7.10

Time-->





#28

Bromochloromethane

Concen: 2.028 ug/l

RT: 7.34 min Scan# 919

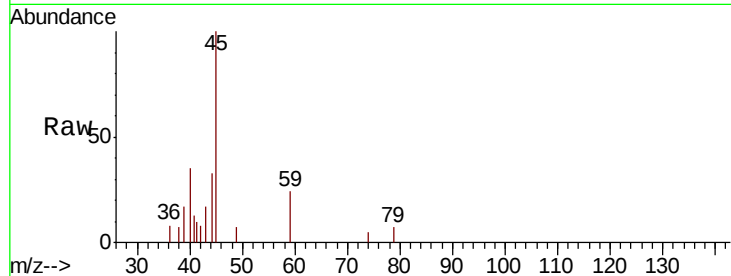
Delta R.T. -0.01 min

Lab File: VY000818.D

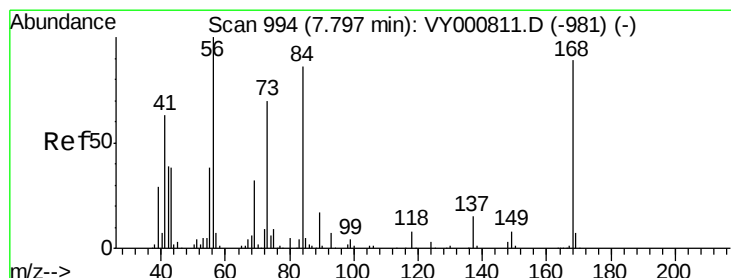
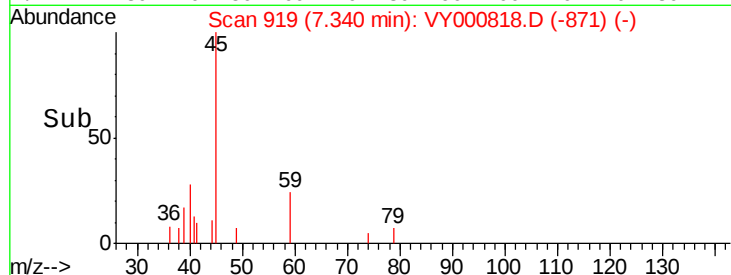
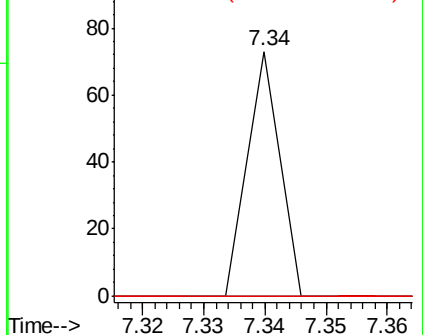
Acq: 27 Nov 2019 14:55

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 49 Resp: 27
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 58.7 88.1#



Abundance Ion 48.90 (48.60 to 49.60): VY0
Ion 128.80 (128.50 to 129.50): VY0
Ion 129.80 (129.50 to 130.50): VY0



#31

Cyclohexane

Concen: 1.007 ug/l

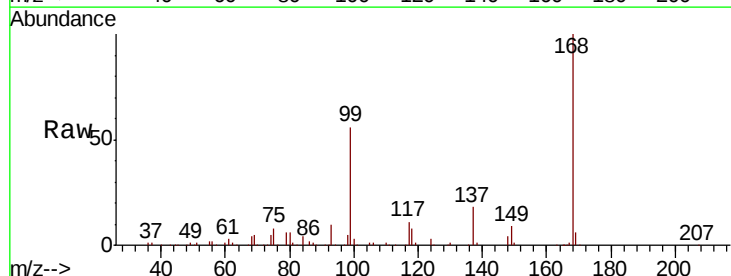
RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

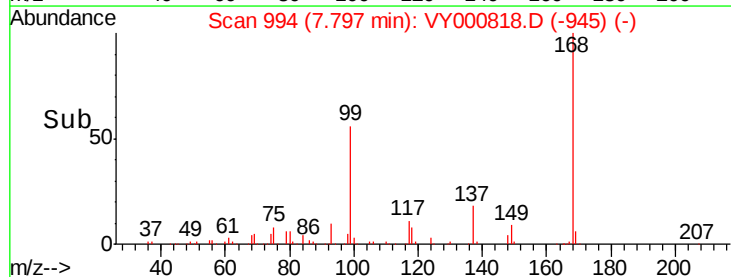
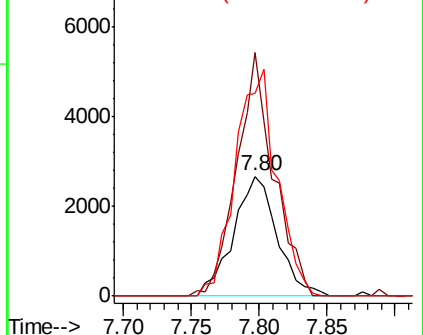
Lab File: VY000818.D

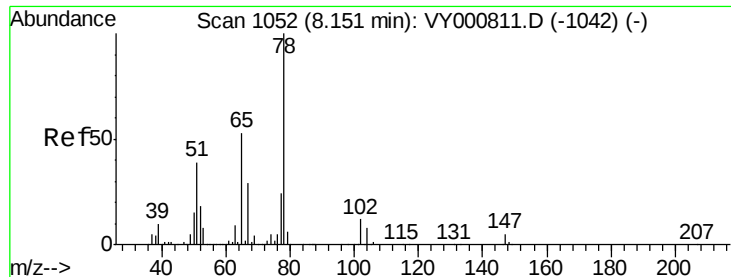
Acq: 27 Nov 2019 14:55

Tgt Ion: 56 Resp: 5991
Ion Ratio Lower Upper
56 100
69 203.7 25.9 38.9#
84 169.8 68.6 102.8#



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: 57.444 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

Instrument :

MSVOA_Y

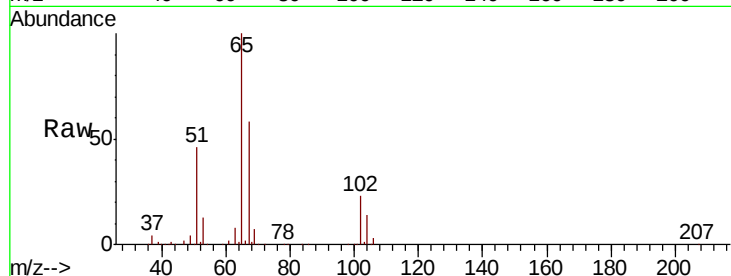
ClientSampleId :

Tot Ion: 65 Resp: 160900

Ion Ratio Lower Upper

65 100

67 54.9 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VY000818.D (-1042) (-)

Ion 66.90 (66.60 to 67.60): VY000818.D (-1042) (-)

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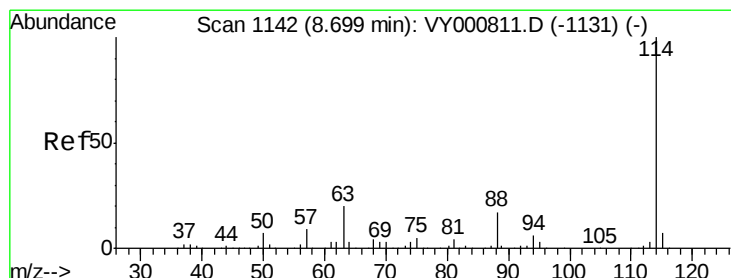
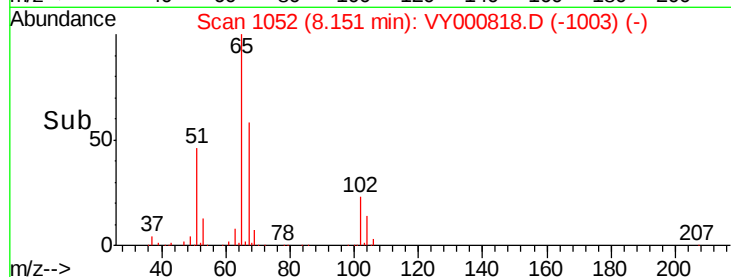
8.15

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

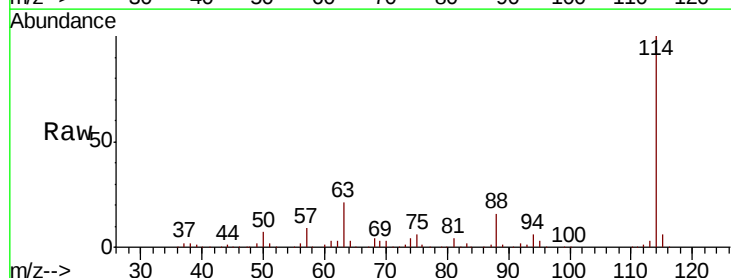
Tgt Ion: 114 Resp: 484831

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.8

88 16.1 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): VY000818.D (-1131) (-)

Ion 63.00 (62.70 to 63.70): VY000818.D (-1131) (-)

Ion 87.90 (87.60 to 88.60): VY000818.D (-1131) (-)

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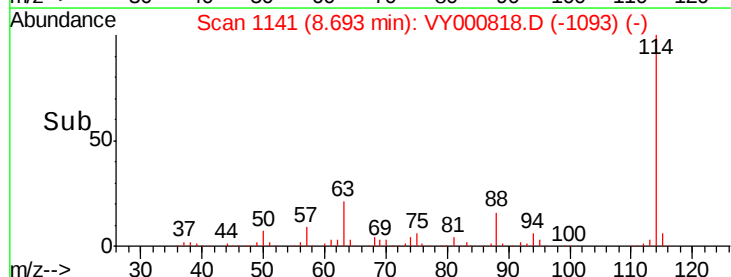
8.69

8.69

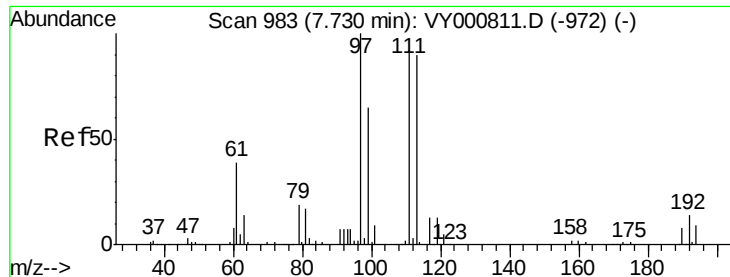
8.69

8.69

8.69



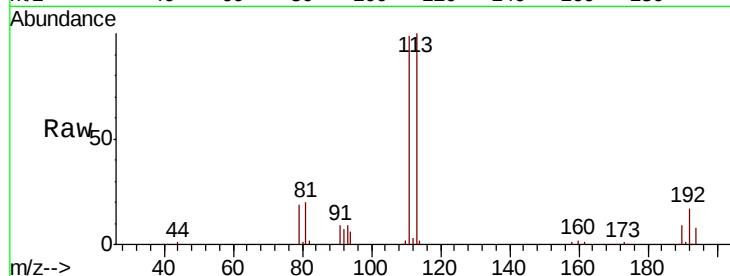
Time-->



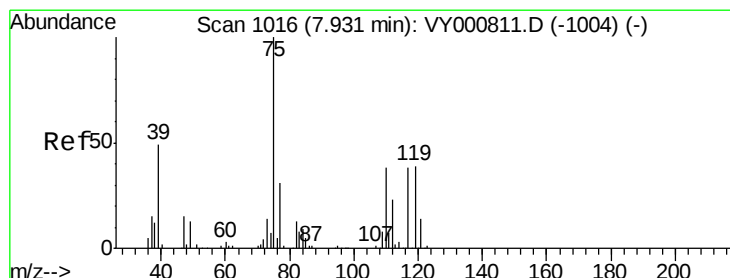
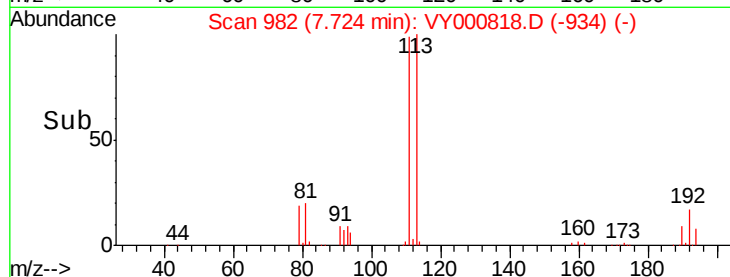
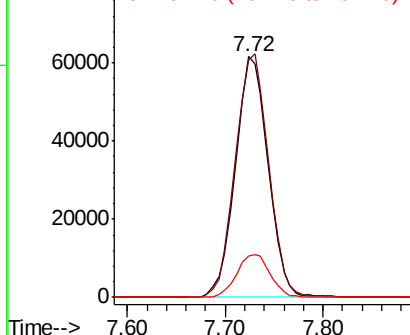
#35
 Dibromofluoromethane
 Concen: 50.707 ug/l
 RT: 7.72 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: VY000818.D
 Acq: 27 Nov 2019 14:55

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:113 Resp: 143277
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 18.2 14.2 21.2

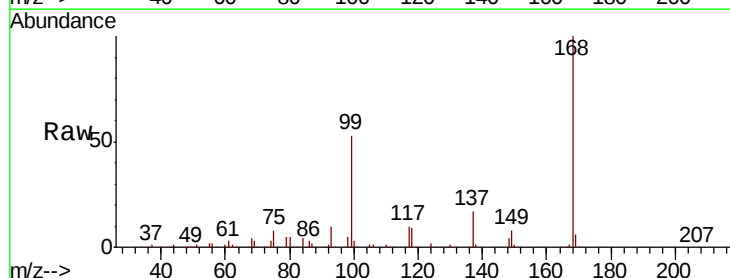


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

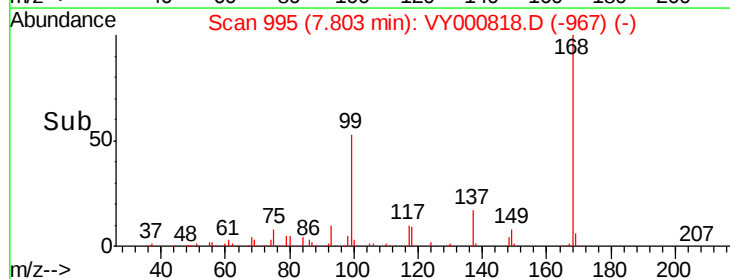
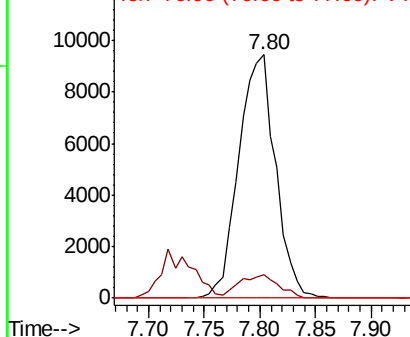


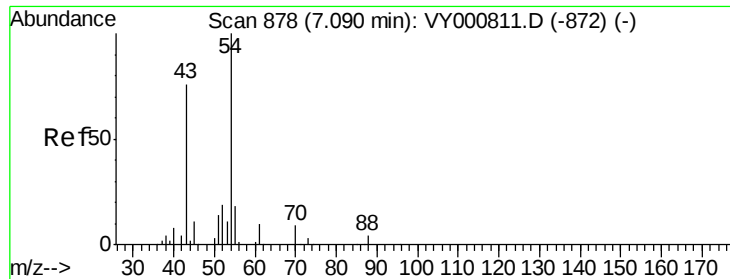
#36
 1,1-Dichloropropene
 Concen: 4.496 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.13 min
 Lab File: VY000818.D
 Acq: 27 Nov 2019 14:55

Tgt Ion: 75 Resp: 21673
 Ion Ratio Lower Upper
 75 100
 110 10.4 17.9 53.7#
 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

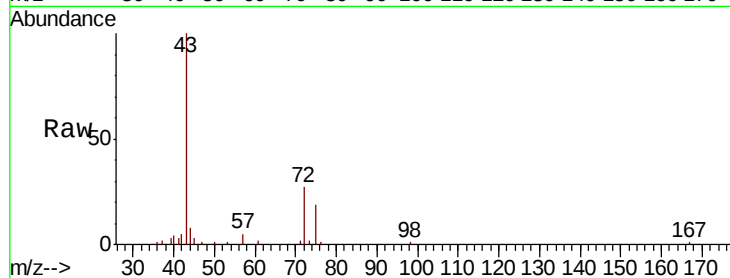




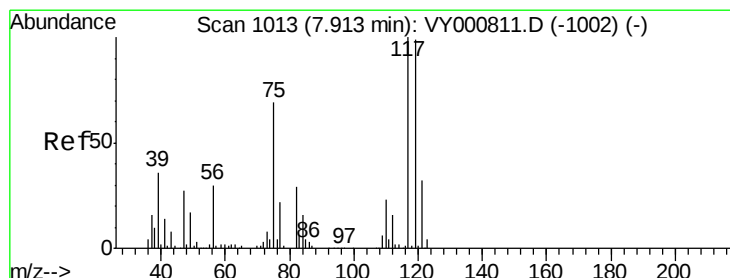
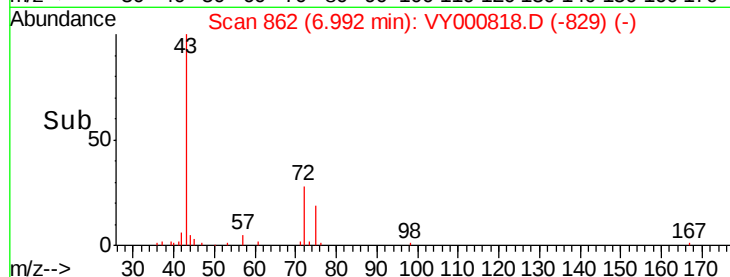
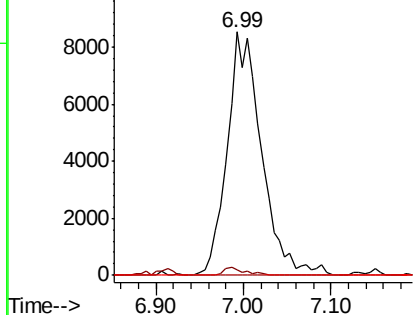
#37
Ethyl Acetate
Concen: 8.366 ug/l
RT: 6.99 min Scan# 862
Delta R.T. -0.10 min
Lab File: VY000818.D
Acq: 27 Nov 2019 14:55

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 23287
Ion Ratio Lower Upper
43 100
61 1.9 11.8 17.8#
70 0.0 8.7 13.1#

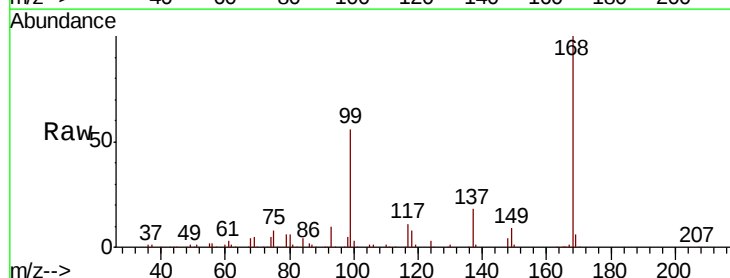


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

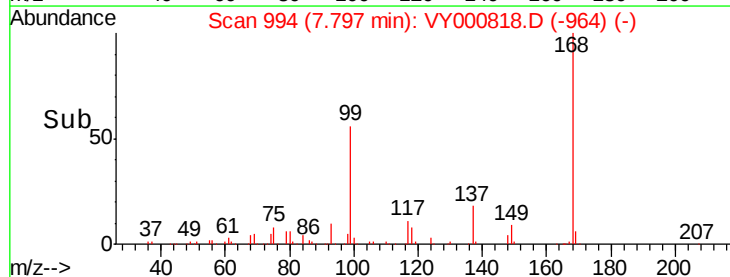
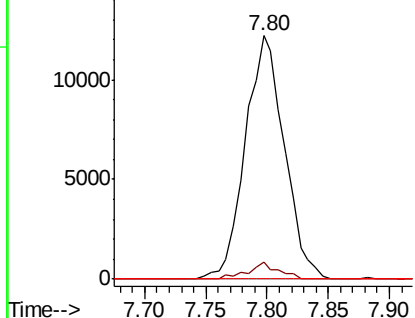


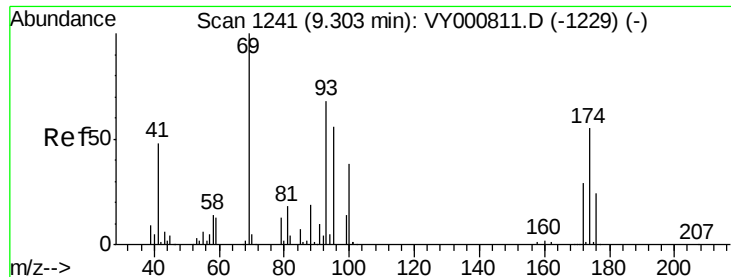
#38
Carbon Tetrachloride
Concen: 6.298 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY000818.D
Acq: 27 Nov 2019 14:55

Tgt Ion: 117 Resp: 27038
Ion Ratio Lower Upper
117 100
119 6.9 79.3 118.9#
121 0.0 25.5 38.3#



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

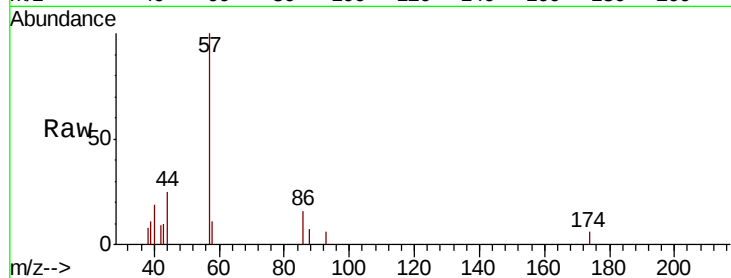




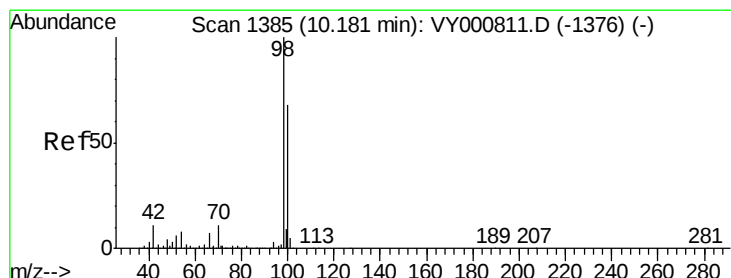
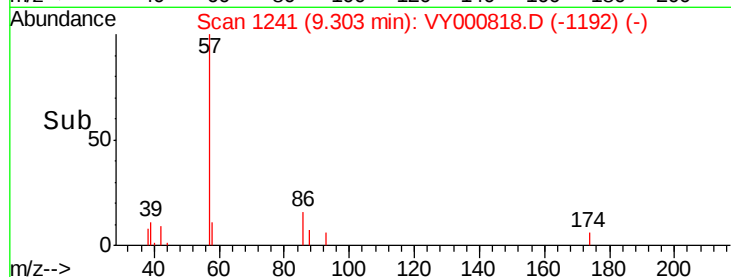
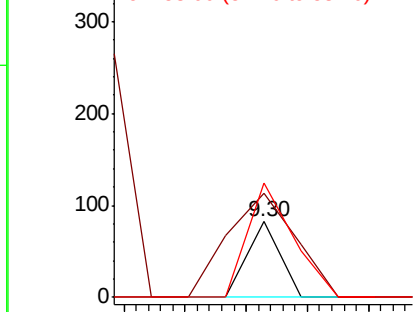
#49
1,4-Dioxane
Concen: 1.149 ug/l
RT: 9.30 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VY000818.D
Acq: 27 Nov 2019 14:55

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 290.0 21.1 31.7#
58 213.3 50.7 76.1#

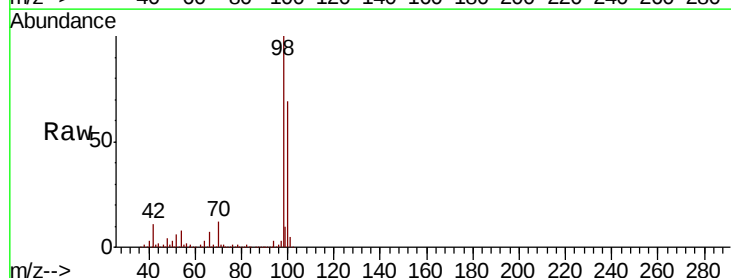


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

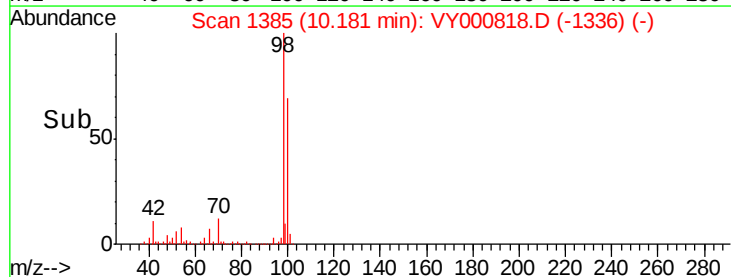
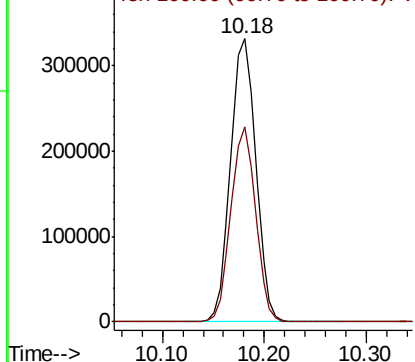


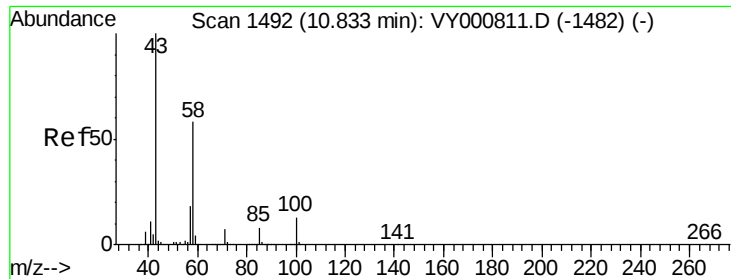
#50
Toluene-d8
Concen: 50.323 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY000818.D
Acq: 27 Nov 2019 14:55

Tgt Ion: 98 Resp: 568482
Ion Ratio Lower Upper
98 100
100 67.3 53.1 79.7



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





#59

2-Hexanone

Concen: 1.265 ug/l

RT: 10.83 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

Instrument :

MSVOA_Y

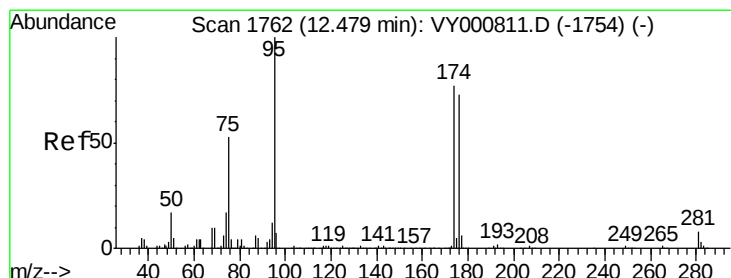
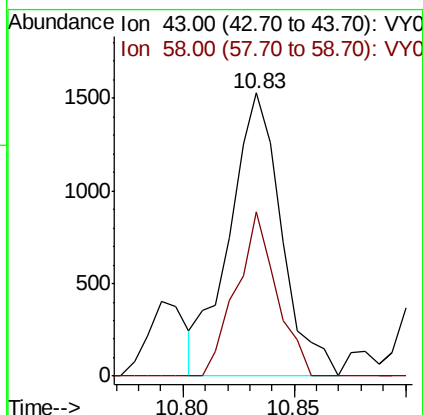
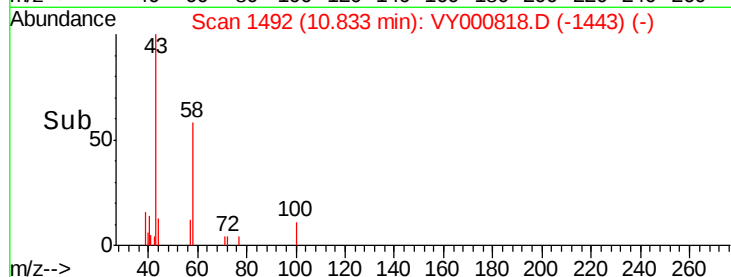
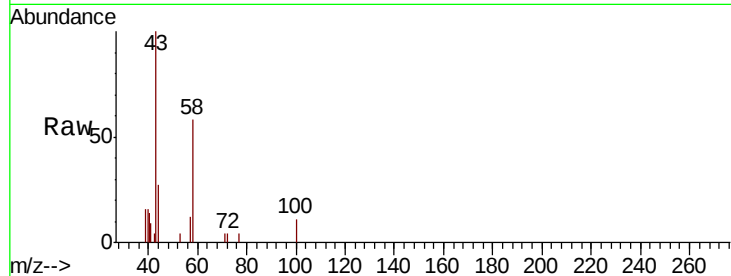
ClientSampleId :

Tot Ion: 43 Resp: 2498

Ion Ratio Lower Upper

43 100

58 44.8 29.0 87.1



#62

4-Bromofluorobenzene

Concen: 38.544 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

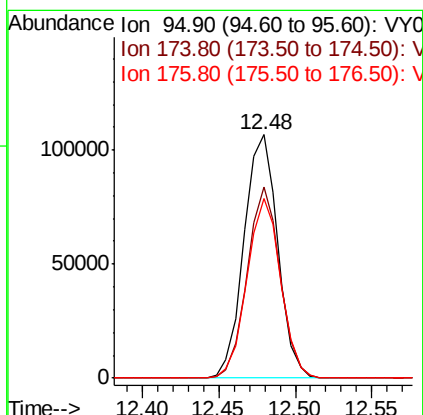
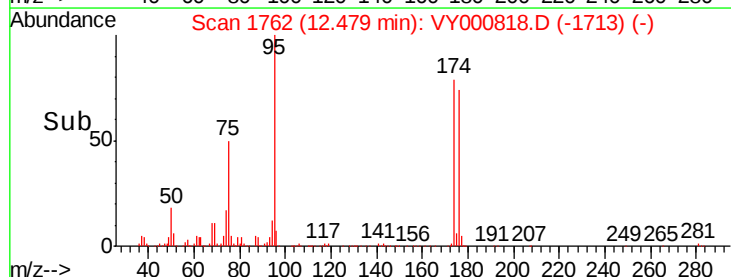
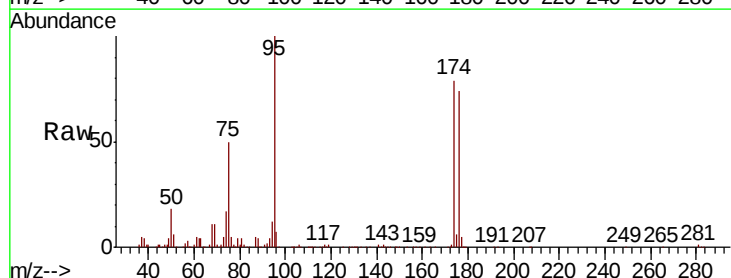
Tgt Ion: 95 Resp: 163523

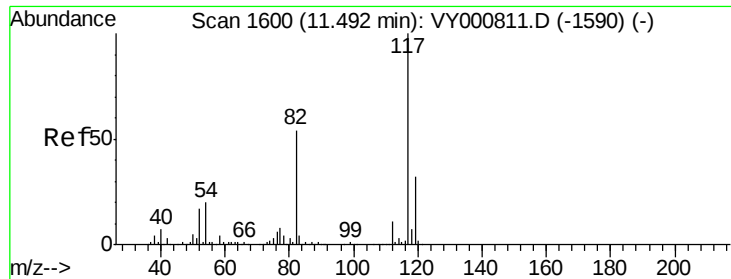
Ion Ratio Lower Upper

95 100

174 76.4 0.0 150.6

176 73.5 0.0 145.2

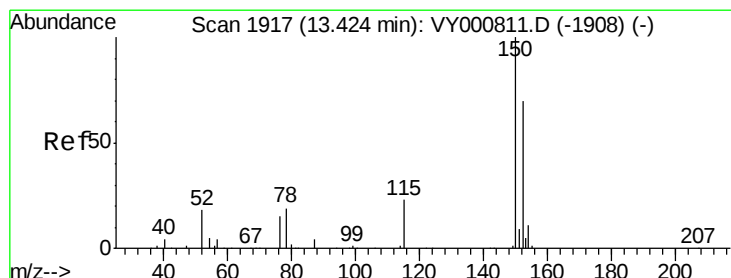
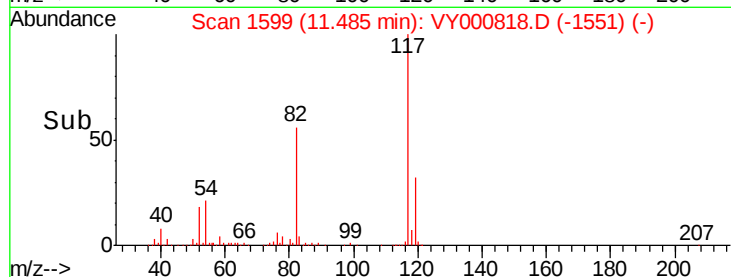
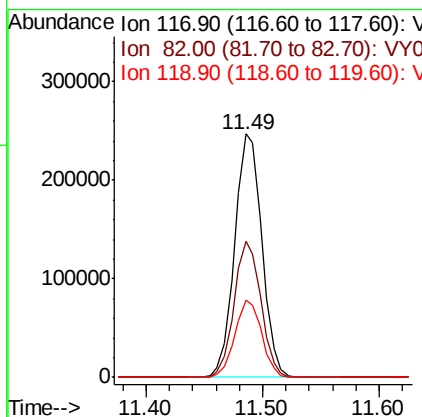
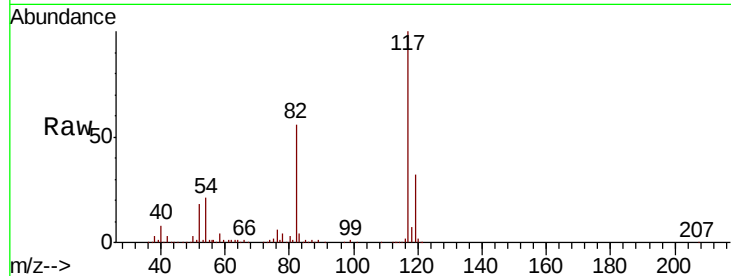




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000818.D
Acq: 27 Nov 2019 14:55

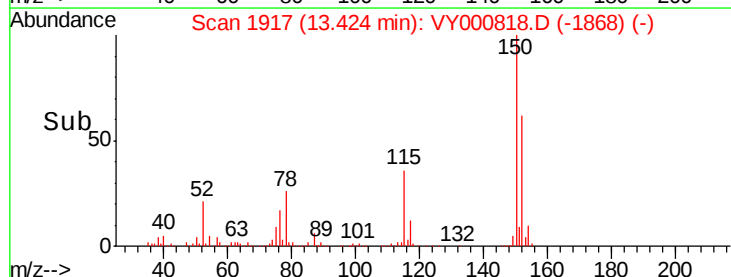
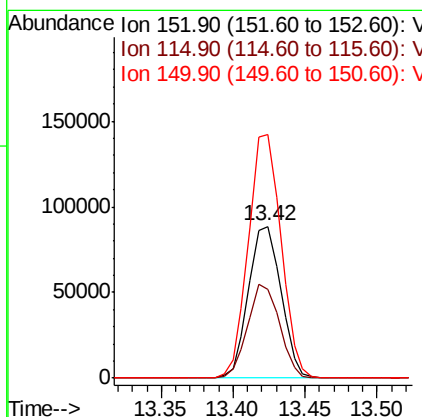
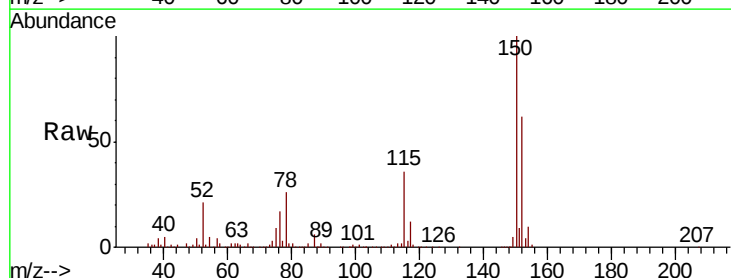
Instrument :
MSVOA_Y
ClientSampleId :

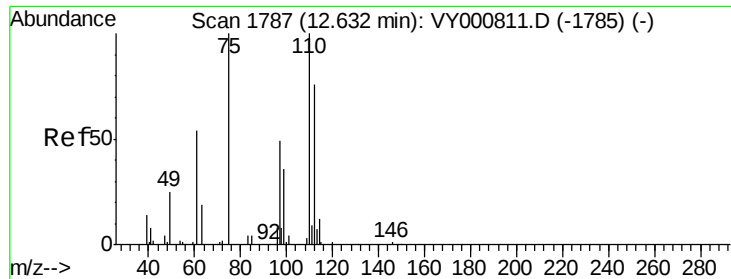
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.1	64.7
119	31.5	25.3	37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VY000818.D
Acq: 27 Nov 2019 14:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	29.3	87.8
150	161.4	0.0	351.2





#76

1,2,3-Trichloropropane

Concen: 53.052 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

Instrument :

MSVOA_Y

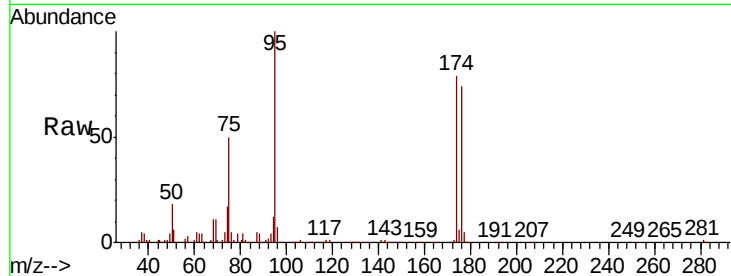
ClientSampleId :

Tot Ion: 75 Resp: 83338

Ion Ratio Lower Upper

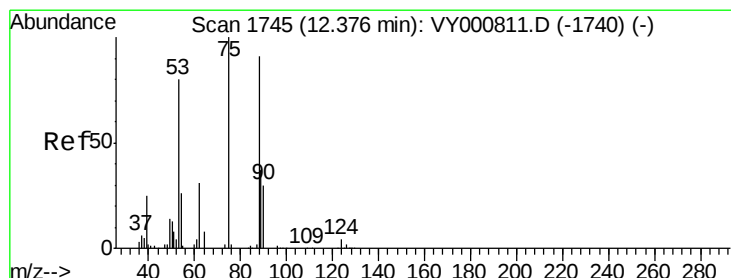
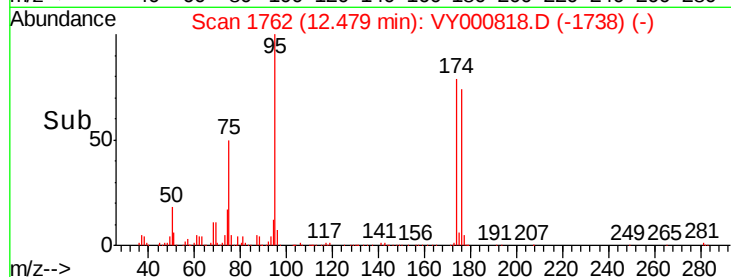
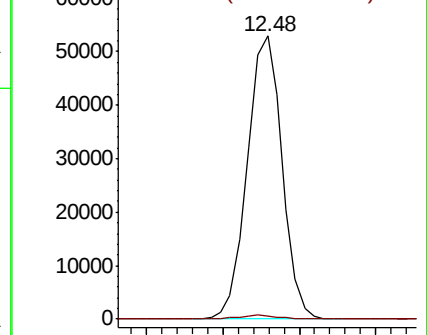
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 104.210 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000818.D

Acq: 27 Nov 2019 14:55

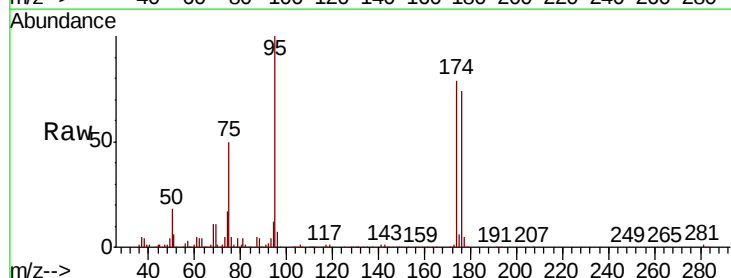
Tgt Ion: 75 Resp: 83338

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

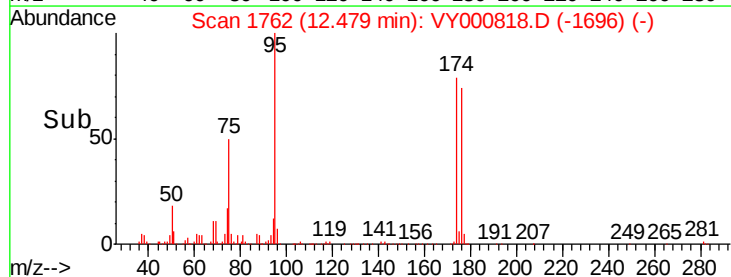
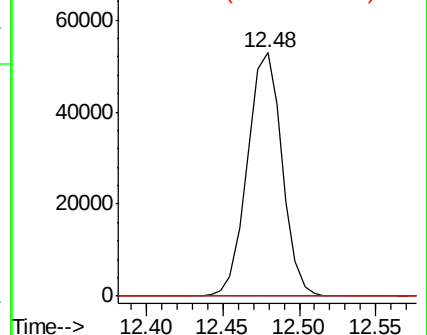
89 0.2 33.6 50.4#

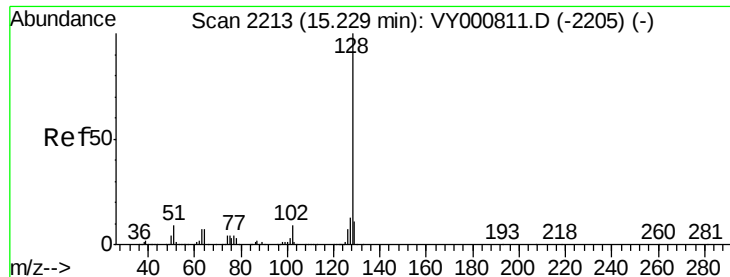


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#95
 Naphthalene
 Concen: 1.113 ug/l
 RT: 15.23 min Scan# 2214
 Delta R.T. 0.01 min
 Lab File: VY000818.D
 Acq: 27 Nov 2019 14:55

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.6	10.1	15.1
129	14.1	8.8	13.2

