

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012420\
 Data File : VY001394.D
 Acq On : 24 Jan 2020 19:37
 Operator : SY/MD
 Sample : L1010-10
 Misc : 5.37G/5ML/MSVOA Y/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 25 03:53:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

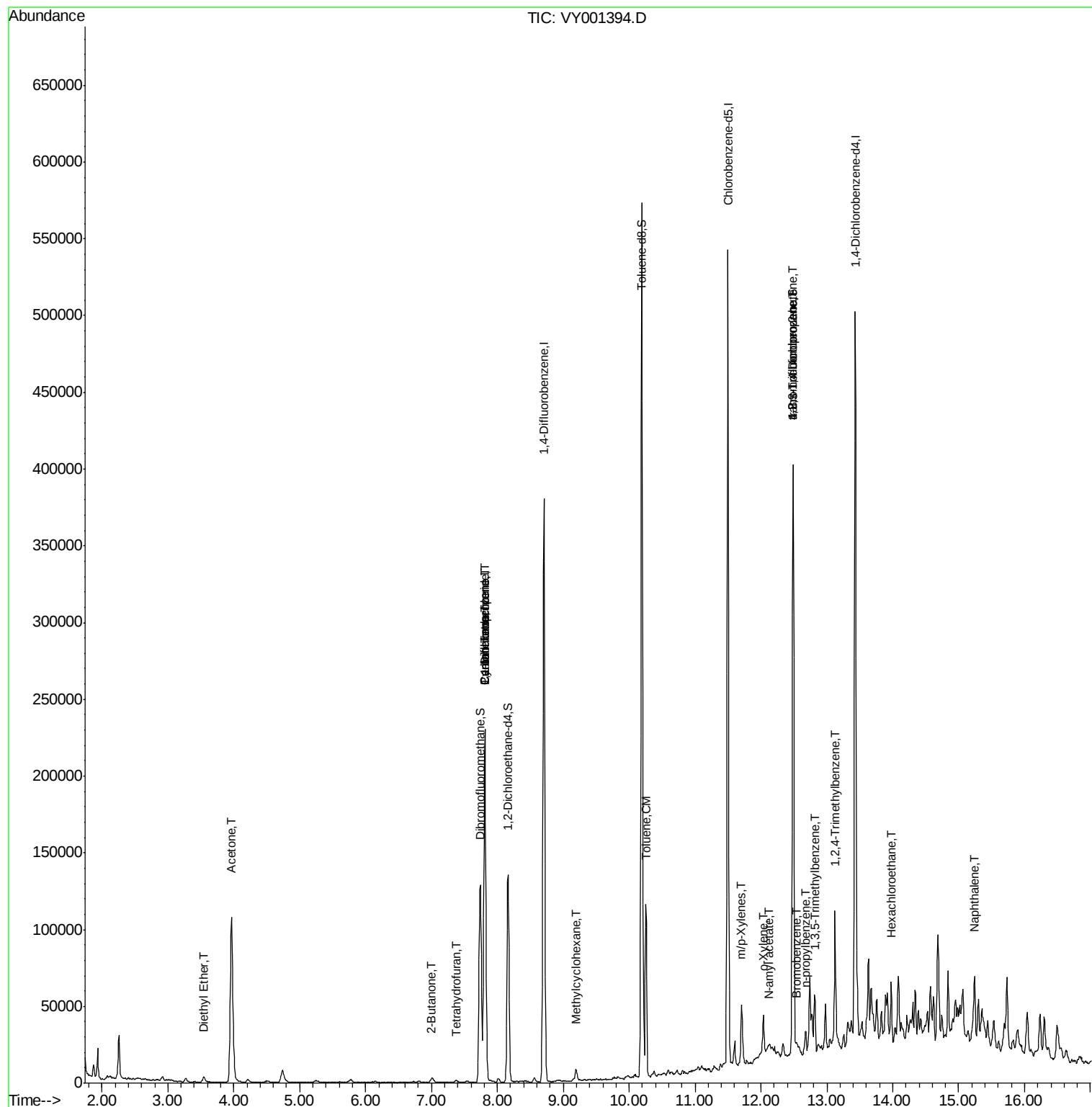
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.81	168	174426	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.71	114	321585	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	278511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	116325	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	99546	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
35) Dibromofluoromethane	7.74	113	94677	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
50) Toluene-d8	10.19	98	377923	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.49	95	129934	44.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.98%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.55	74	2061	1.760	ug/l	90
11) Tert butyl alcohol	4.98	59	427	Below Cal	#	74
13) Acrolein	3.83	56	26	Below Cal	#	15
16) Acetone	3.96	43	188702	381.397	ug/l	98
20) Methylene Chloride	4.74	84	5732	Below Cal		95
25) 2-Butanone	7.01	43	2834	3.431	ug/l	94
29) Tetrahydrofuran	7.38	42	835	1.554	ug/l #	67
31) Cyclohexane	7.81	56	5149	1.403	ug/l #	1
36) 1,1-Dichloropropene	7.81	75	14099	4.641	ug/l #	48
38) Carbon Tetrachloride	7.81	117	18100	6.685	ug/l #	16
39) Methylcyclohexane	9.19	83	3915	1.006	ug/l	89
52) Toluene	10.25	92	46249	8.009	ug/l	98
68) m/p-Xylenes	11.70	106	11715	2.899	ug/l	93
69) o-Xylene	12.03	106	7337	1.887	ug/l	92
74) N-amyl acetate	12.12	43	3269	1.088	ug/l #	43
76) 1,2,3-Trichloropropane	12.49	75	64837	46.255	ug/l #	100
77) Bromobenzene	12.55	156	4782	2.352	ug/l #	1
78) n-propylbenzene	12.68	91	12254	1.109	ug/l	95
80) 1,3,5-Trimethylbenzene	12.81	105	12656	1.652	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.49	75	64837	87.533	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.13	105	43729	5.685	ug/l	99
90) Hexachloroethane	13.98	117	1760	1.148	ug/l #	23
95) Naphthalene	15.24	128	30366	5.479	ug/l	96

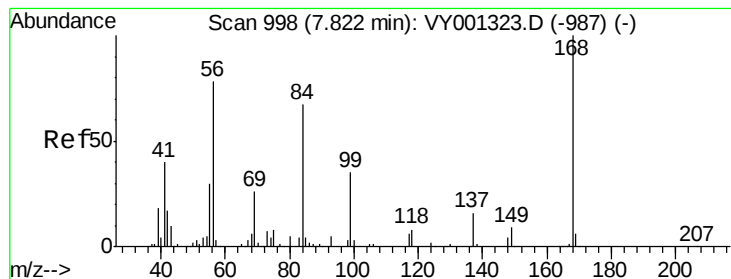
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

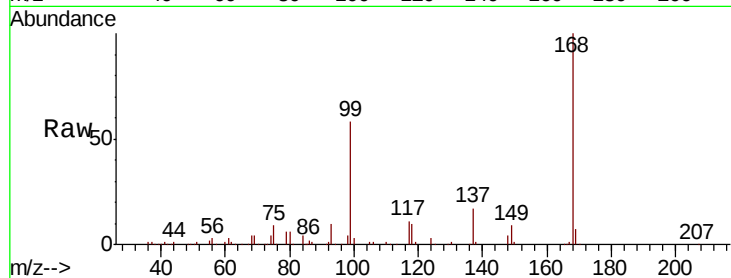
ClientSampled :

Tot Ion:168 Resp: 174426

Ion Ratio Lower Upper

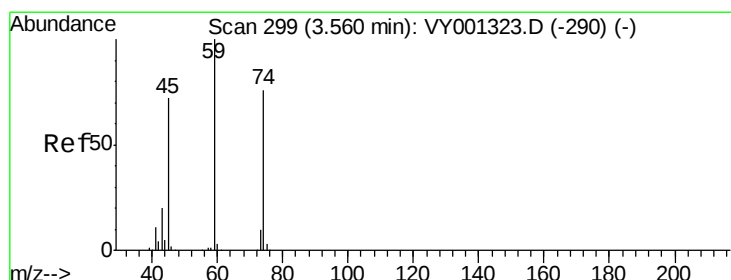
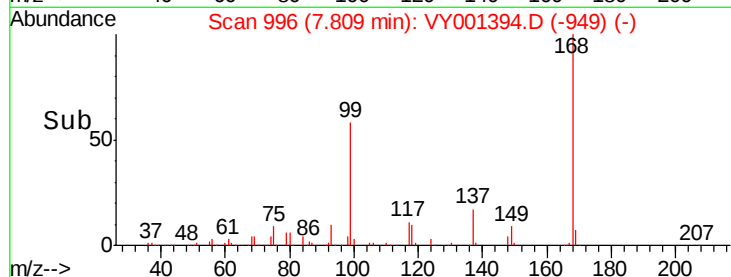
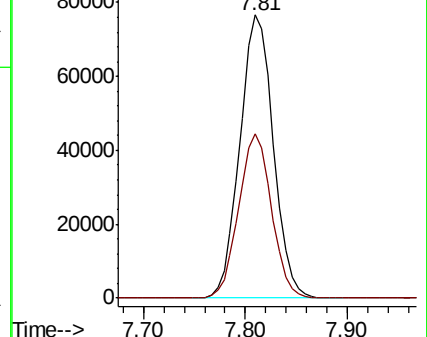
168 100

99 57.9 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)



#8

Diethyl Ether

Concen: 1.760 ug/l

RT: 3.55 min Scan# 297

Delta R.T. -0.01 min

Lab File: VY001394.D

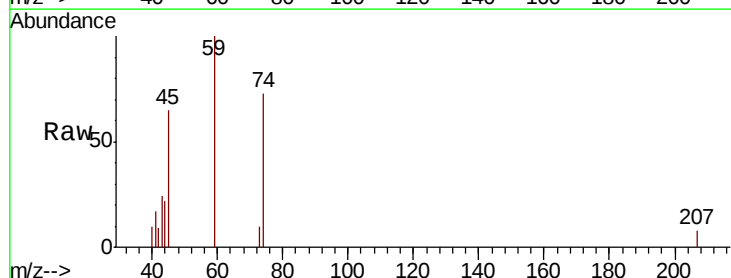
Acq: 24 Jan 2020 19:37

Tgt Ion: 74 Resp: 2061

Ion Ratio Lower Upper

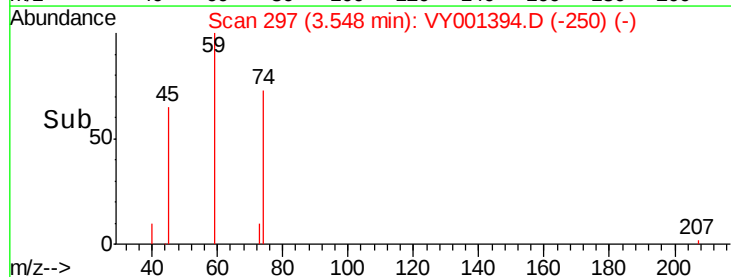
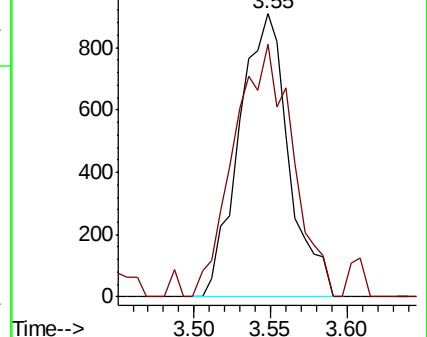
74 100

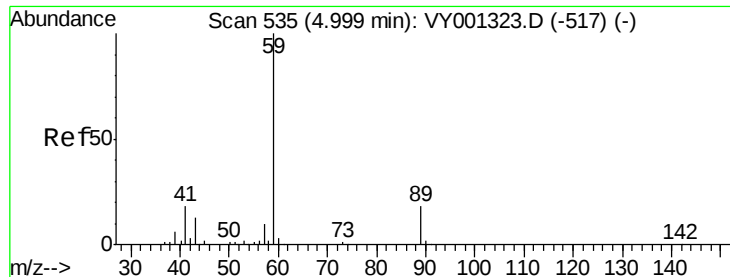
45 104.6 47.2 141.6



Abundance Ion 74.00 (73.70 to 74.70): VY001323.D (-290) (-)

Ion 45.00 (44.70 to 45.70): VY001323.D (-290) (-)

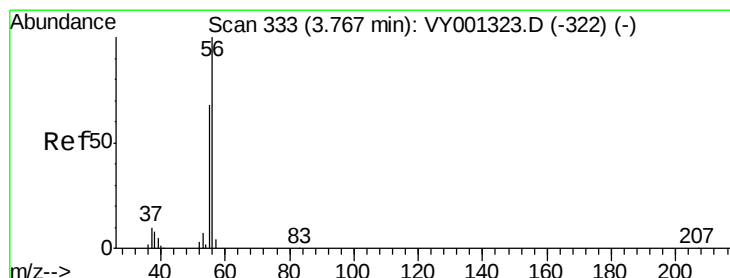
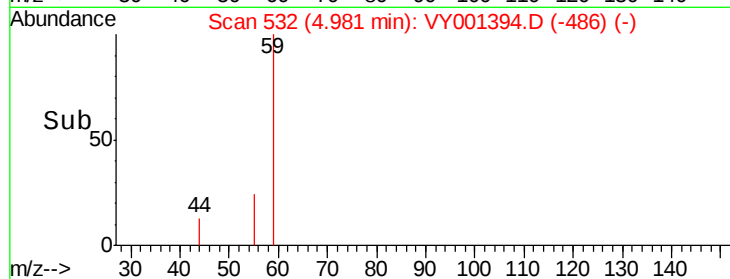
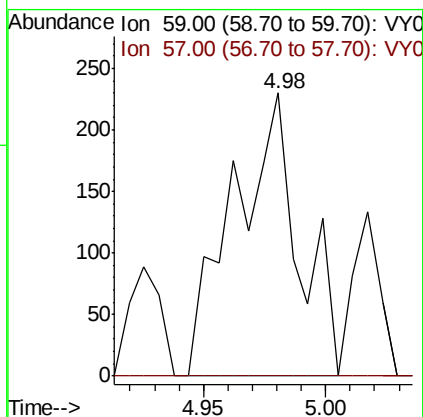
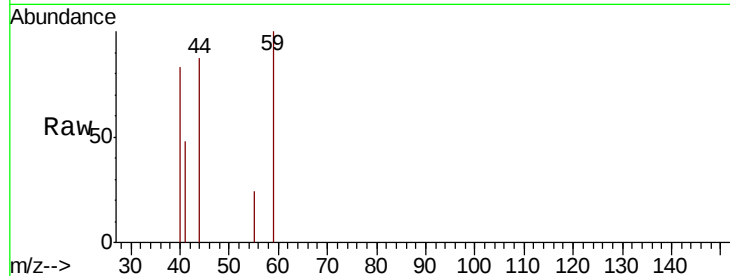




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.98 min Scan# 532
Delta R.T. -0.02 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

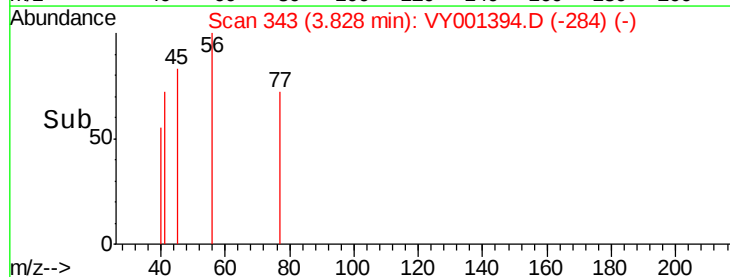
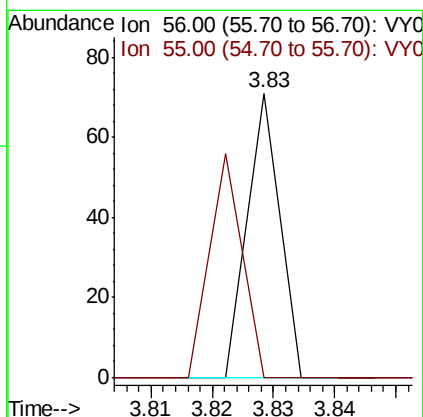
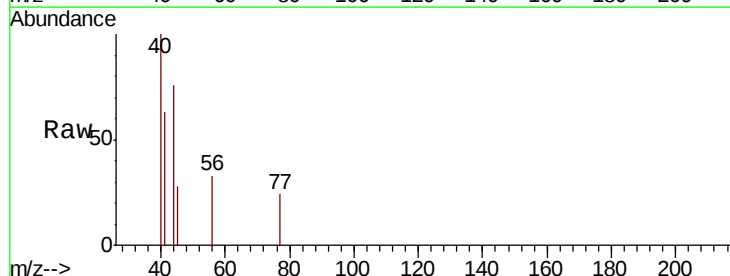
Instrument :
MSVOA_Y
ClientSampled :

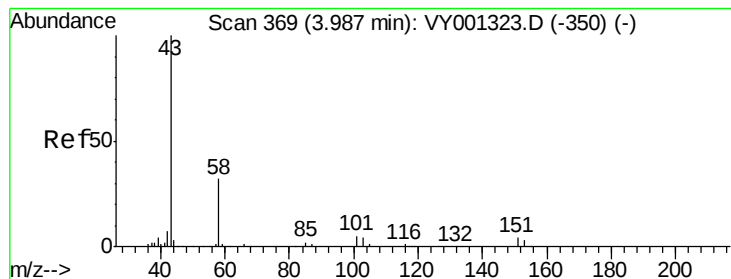
Tot Ion: 59 Resp: 427
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



#13
Acrolein
Concen: Below Cal
RT: 3.83 min Scan# 343
Delta R.T. 0.06 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 55.9 83.9#





#16

Acetone

Concen: 381.397 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.02 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

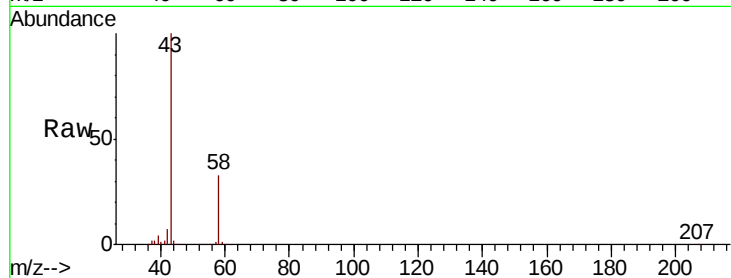
ClientSampleId :

Tot Ion: 43 Resp: 188702

Ion Ratio Lower Upper

43 100

58 33.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY001323.D (-350) (-)

Ion 58.00 (57.70 to 58.70): VY001323.D (-350) (-)

3.96

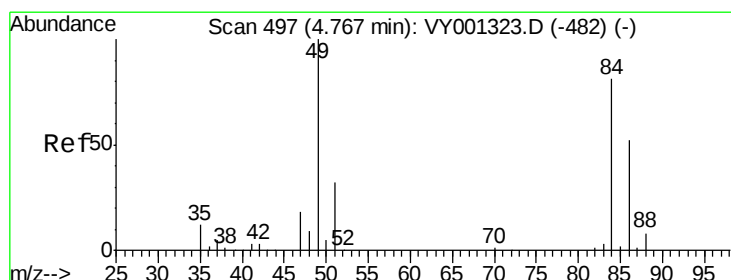
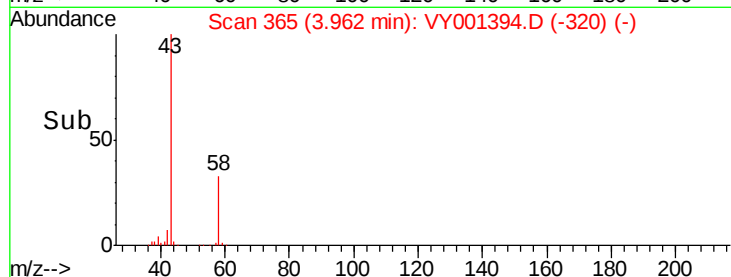
60000

40000

20000

0

Time--> 3.80 3.90 4.00 4.10 4.20



#20

Methylene Chloride

Concen: Below Cal

RT: 4.74 min Scan# 492

Delta R.T. -0.03 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Tgt Ion: 84 Resp: 5732

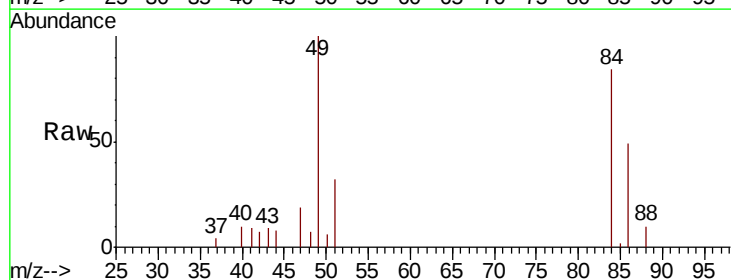
Ion Ratio Lower Upper

84 100

49 118.5 98.3 147.5

51 38.3 31.6 47.4

86 57.8 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VY001323.D (-482) (-)

Ion 48.90 (48.60 to 49.60): VY001323.D (-482) (-)

Ion 50.90 (50.60 to 51.60): VY001323.D (-482) (-)

Ion 85.90 (85.60 to 86.60): VY001323.D (-482) (-)

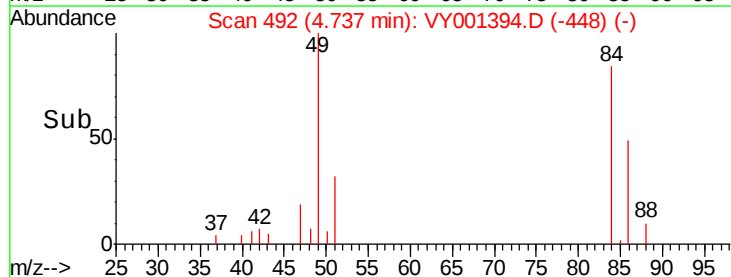
3000

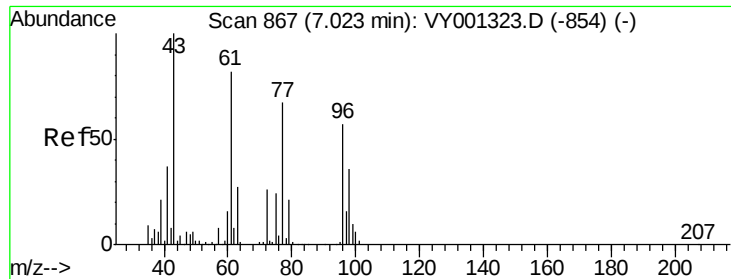
2000

1000

0

Time--> 4.60 4.70 4.80

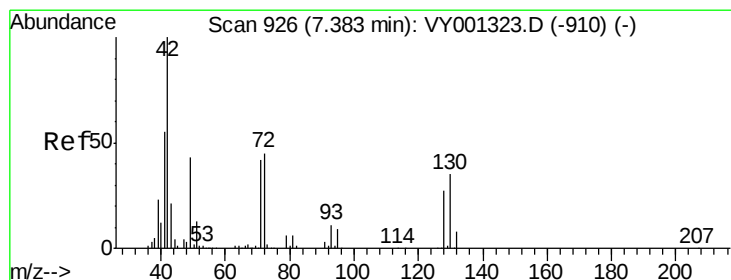
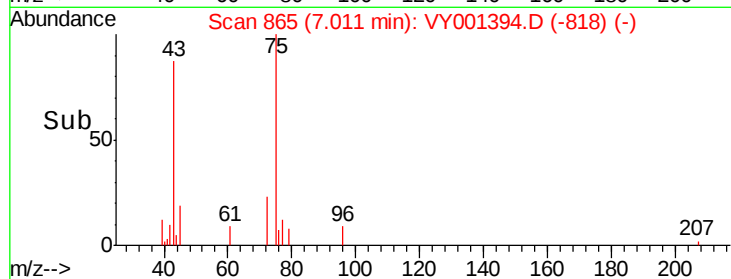
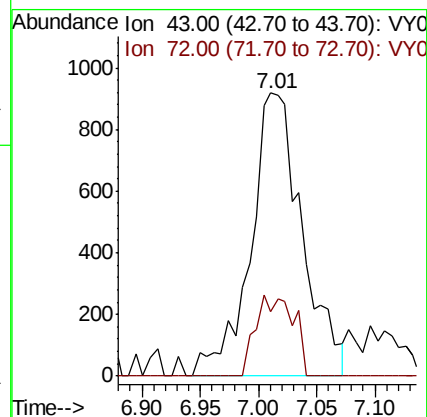
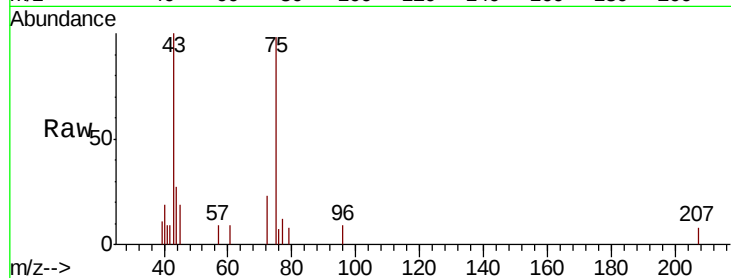




#25
2-Butanone
Concen: 3.431 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.01 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

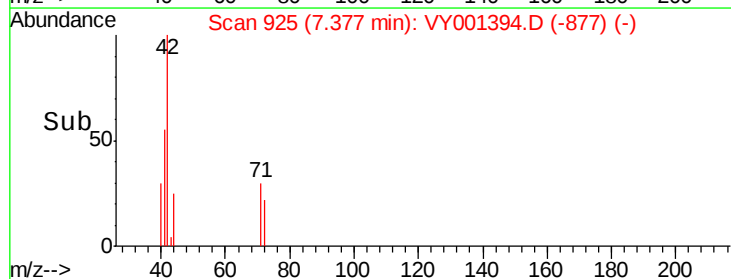
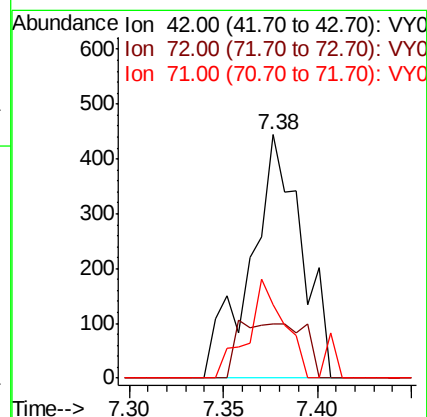
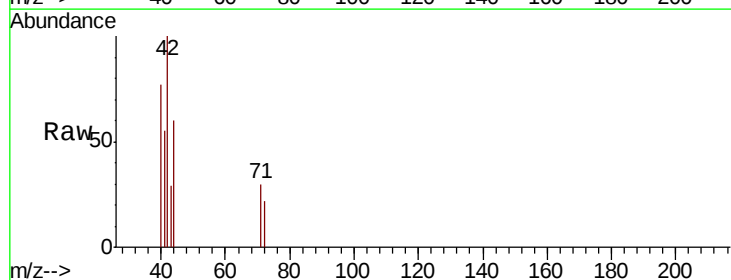
Instrument :
MSVOA_Y
ClientSampleId :

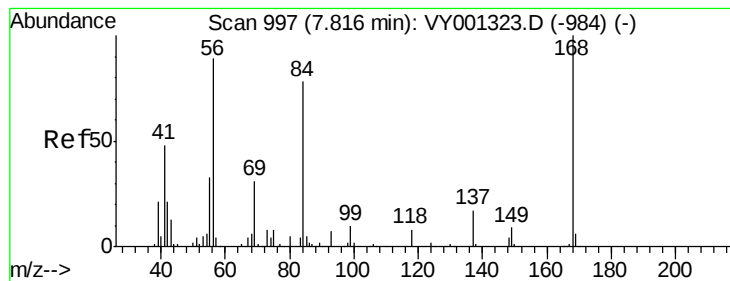
Tot Ion: 43 Resp: 2834
Ion Ratio Lower Upper
43 100
72 22.5 20.6 31.0



#29
Tetrahydrofuran
Concen: 1.554 ug/l
RT: 7.38 min Scan# 925
Delta R.T. -0.01 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

Tgt Ion: 42 Resp: 835
Ion Ratio Lower Upper
42 100
72 12.8 34.6 51.8#
71 29.1 32.6 48.8#





#31

Cyclohexane

Concen: 1.403 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

ClientSampleId :

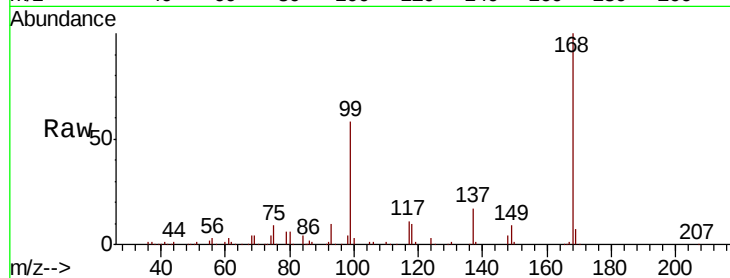
Tot Ion: 56 Resp: 5149

Ion Ratio Lower Upper

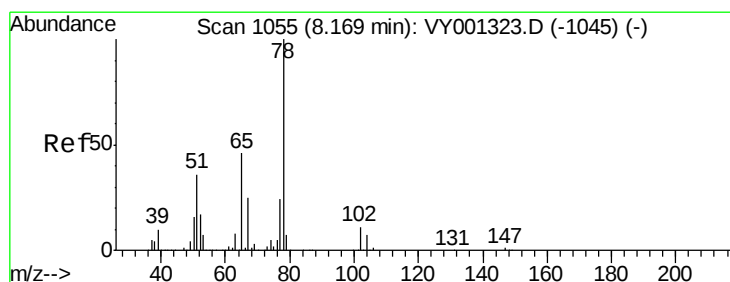
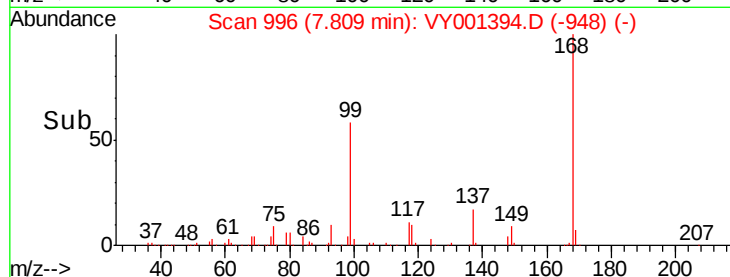
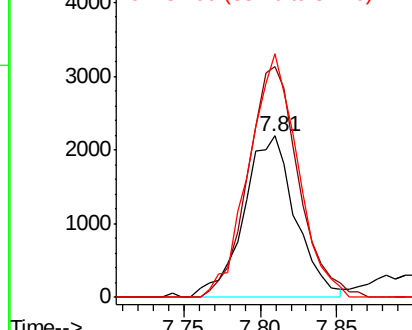
56 100

69 142.9 27.6 41.4#

84 150.9 69.7 104.5#



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: 52.448 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001394.D

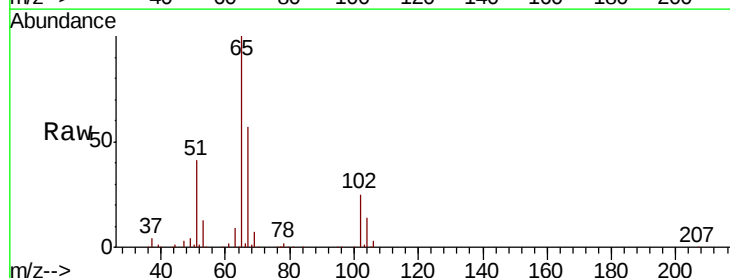
Acq: 24 Jan 2020 19:37

Tgt Ion: 65 Resp: 99546

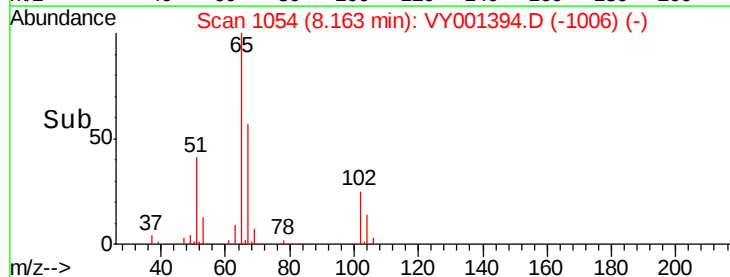
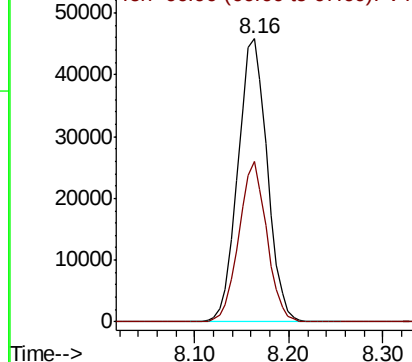
Ion Ratio Lower Upper

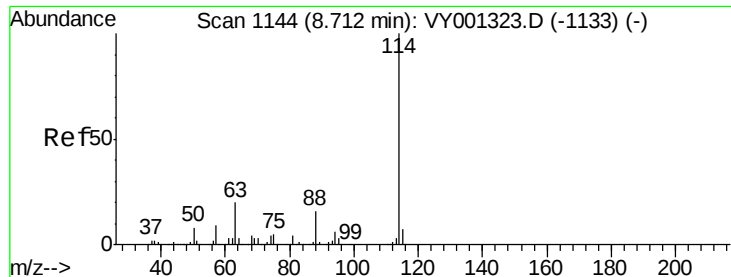
65 100

67 54.1 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0

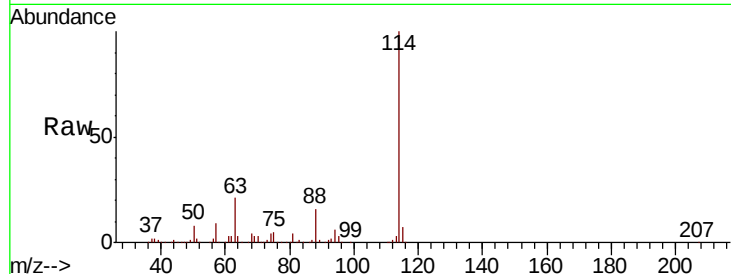




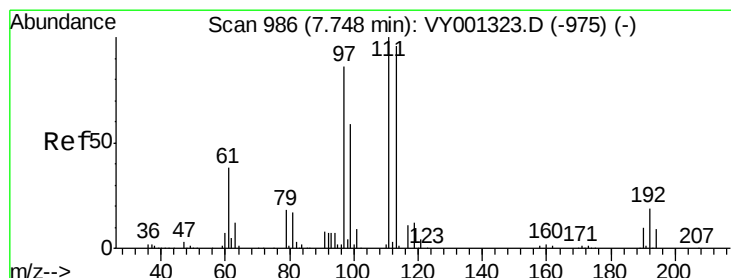
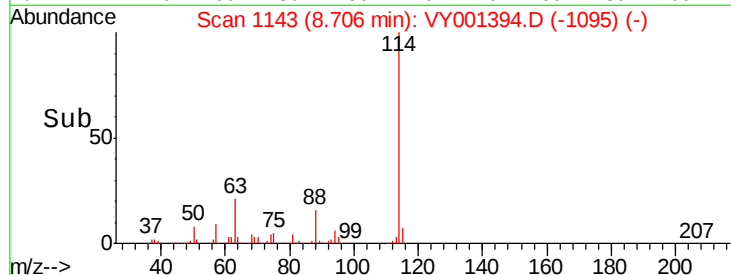
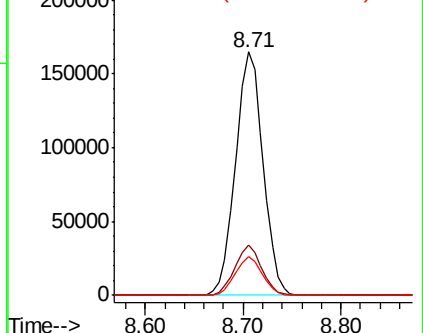
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.8
88	16.0	0.0	31.0

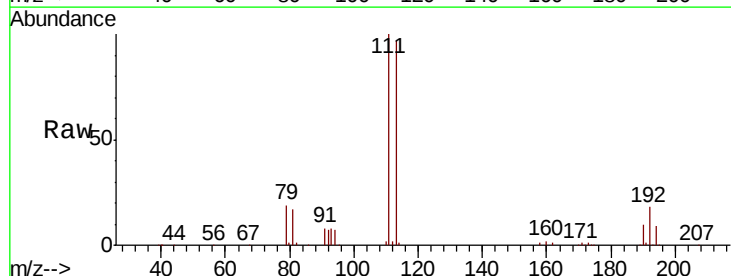


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

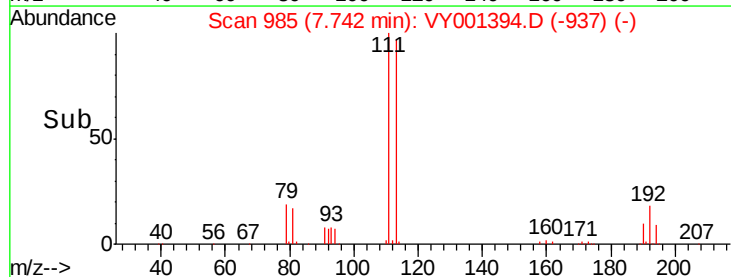
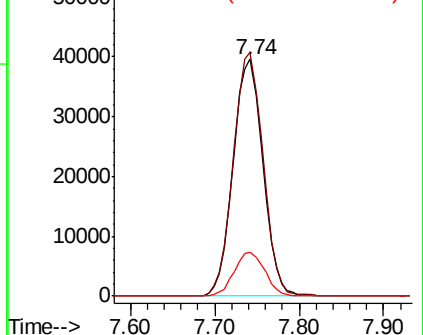


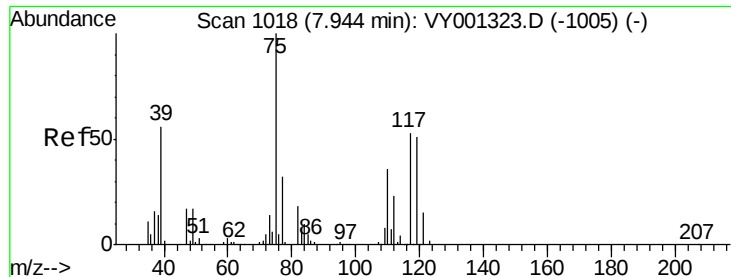
#35
 Dibromofluoromethane
 Concen: 50.162 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. -0.01 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.8	124.2
192	18.9	15.5	23.3



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

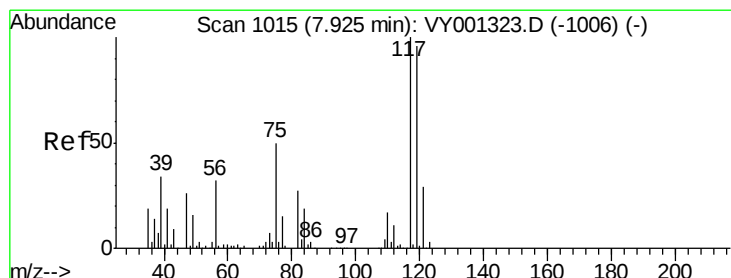
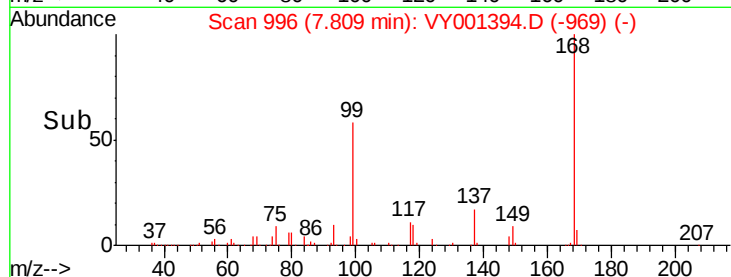
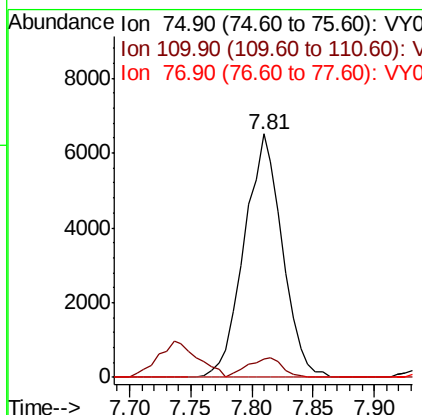
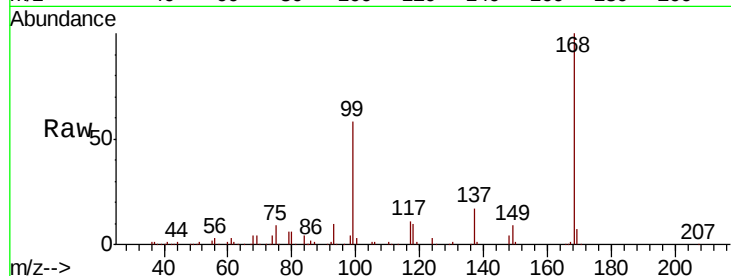




#36
 1,1-Dichloropropene
 Concen: 4.641 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

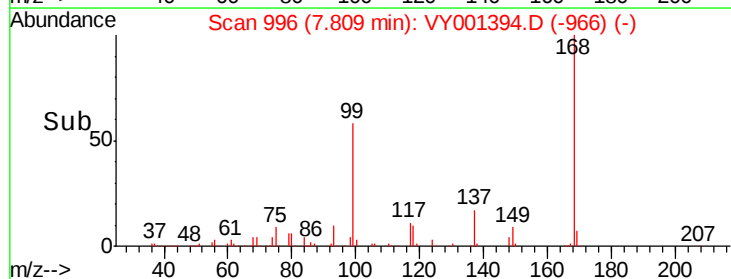
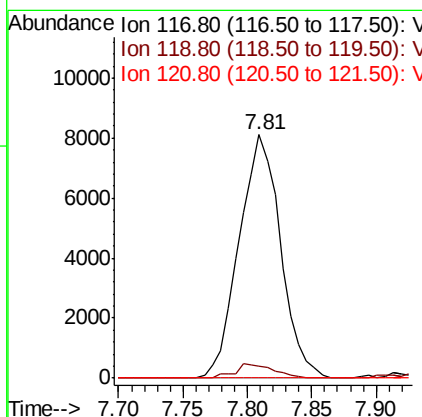
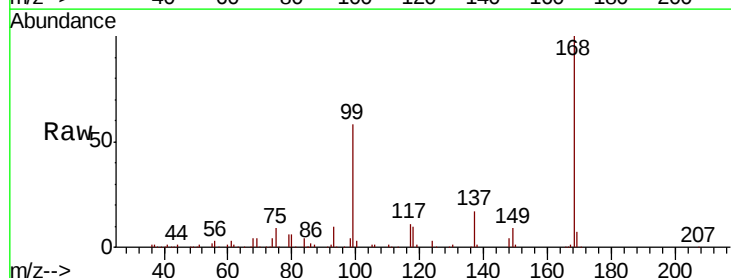
Instrument :
 MSVOA_Y
 ClientSampleId :

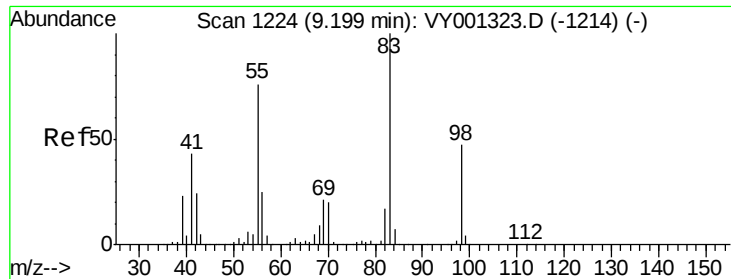
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.4	17.6	52.8#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.685 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.12 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.3	114.5#
121	0.0	23.5	35.3#

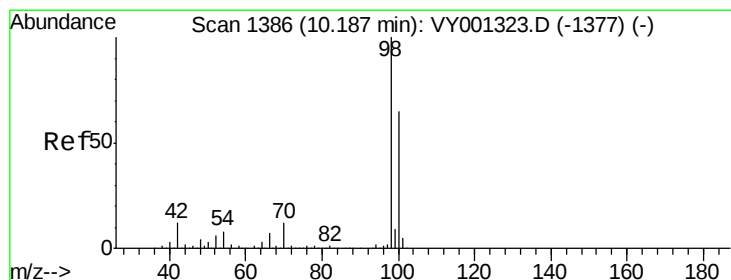
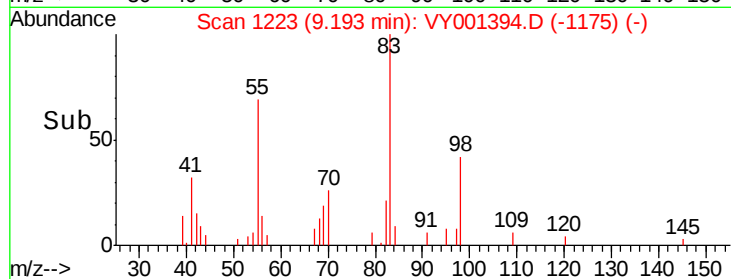
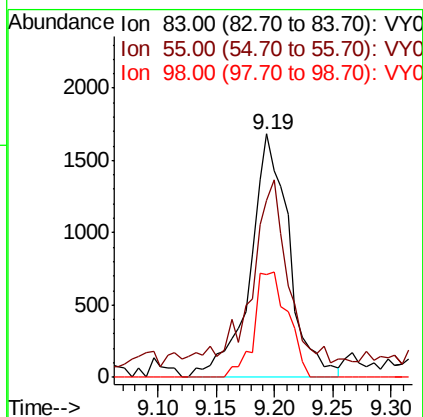
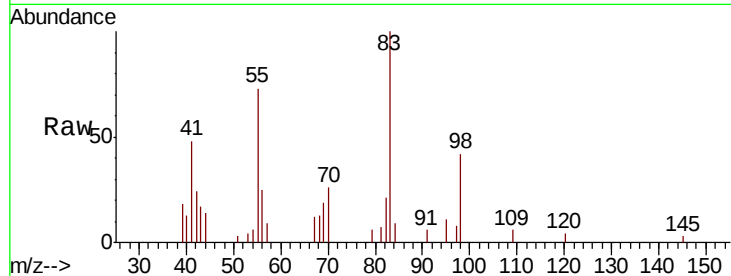




#39
Methvlcvclohexane
Concen: 1.006 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

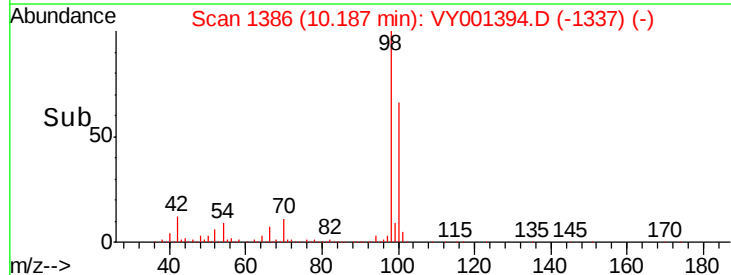
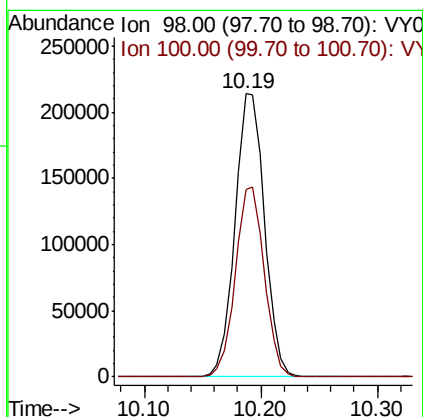
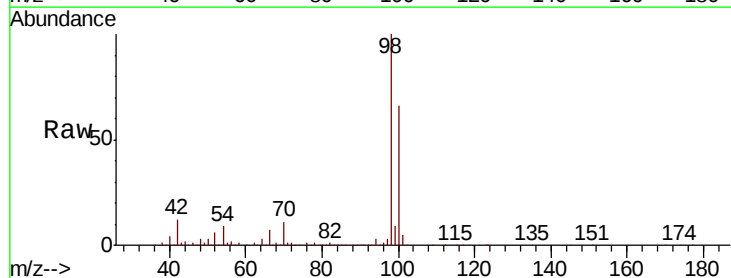
Instrument :
MSVOA_Y
ClientSampleId :

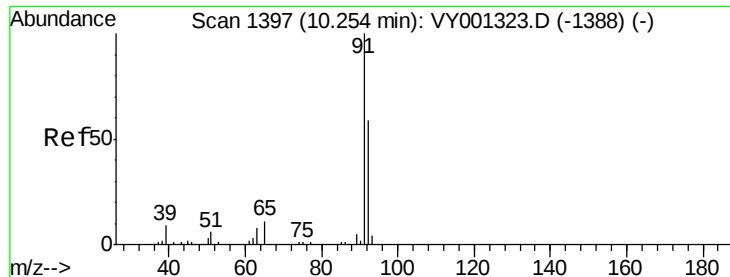
Tot Ion: 83 Resp: 3915
Ion Ratio Lower Upper
83 100
55 65.2 60.7 91.1
98 42.2 37.8 56.8



#50
Toluene-d8
Concen: 51.537 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.00 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

Tgt Ion: 98 Resp: 377923
Ion Ratio Lower Upper
98 100
100 65.9 52.6 79.0





#52

Toluene

Concen: 8.009 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

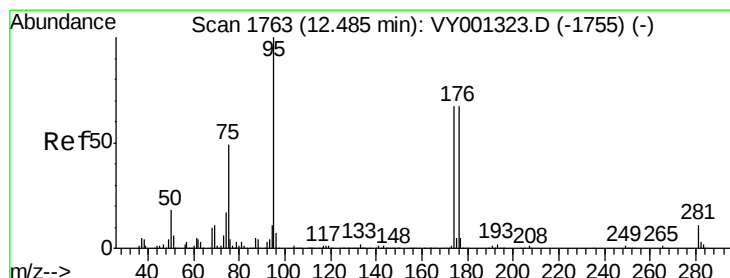
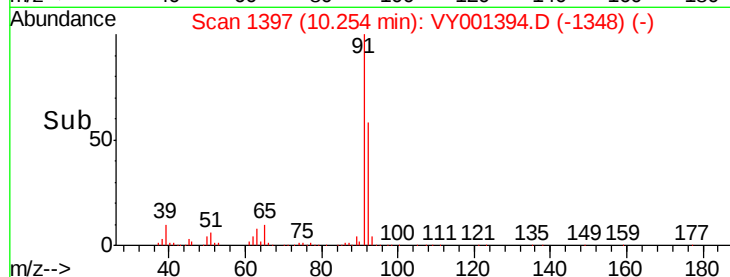
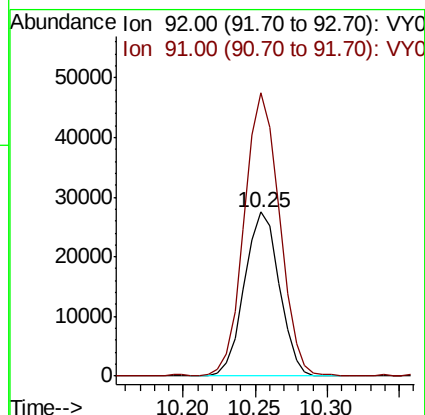
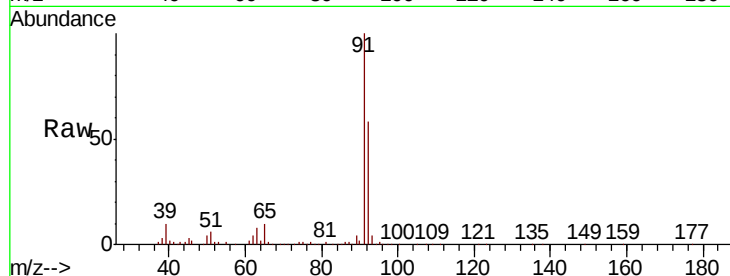
ClientSampled :

Tot Ion: 92 Resp: 46249

Ion Ratio Lower Upper

92 100

91 173.0 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 44.494 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

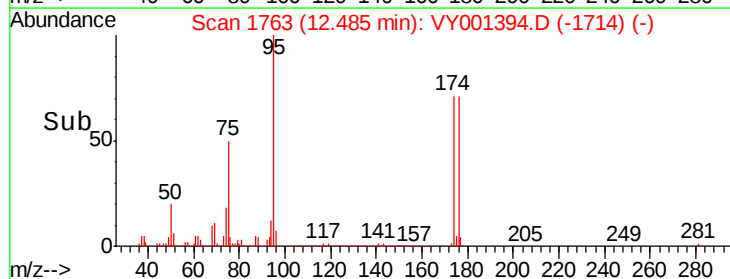
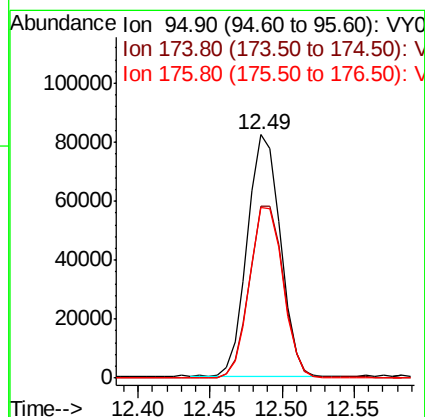
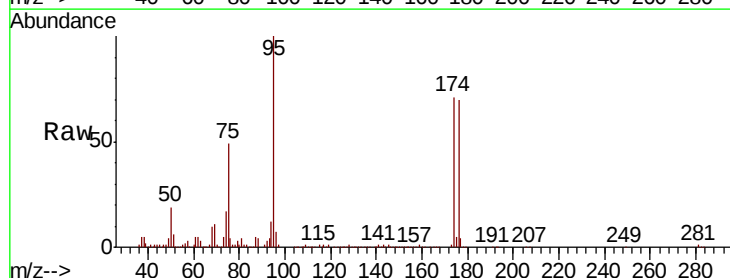
Tgt Ion: 95 Resp: 129934

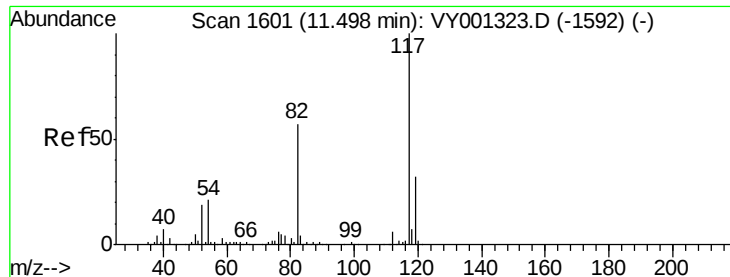
Ion Ratio Lower Upper

95 100

174 73.2 0.0 142.0

176 71.7 0.0 138.6

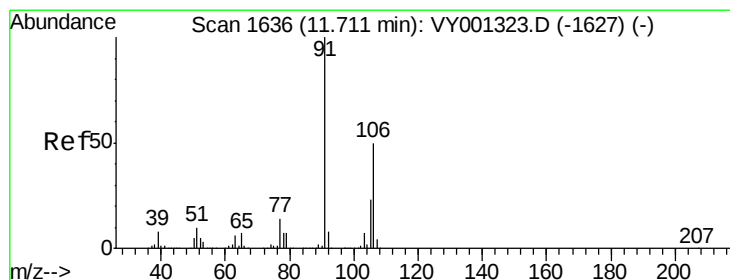
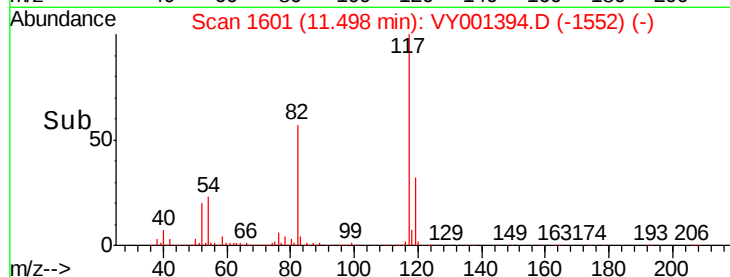
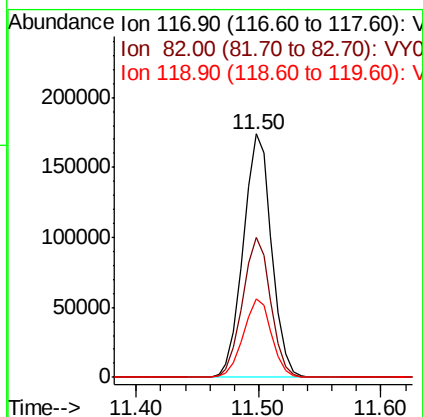
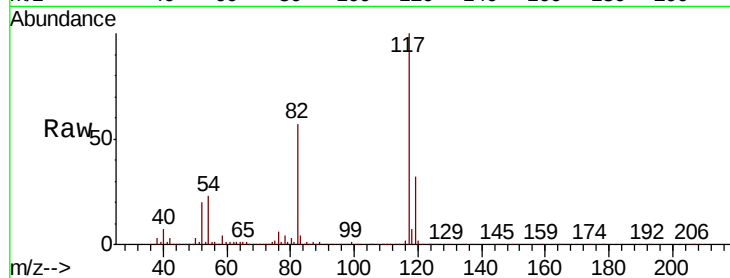




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

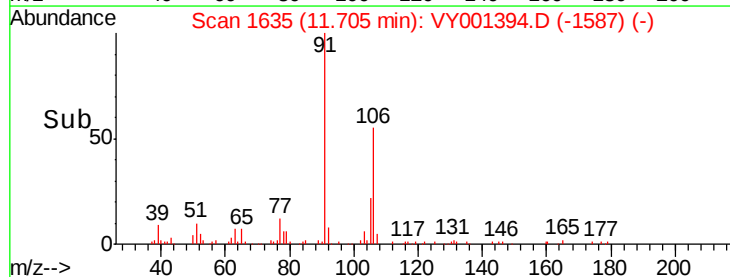
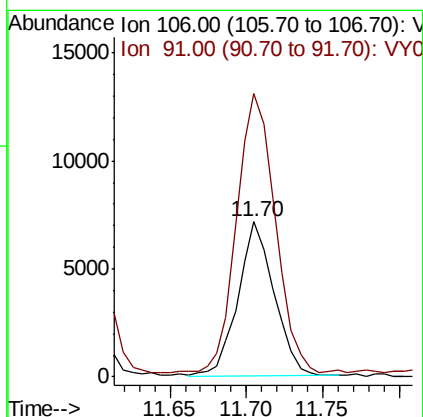
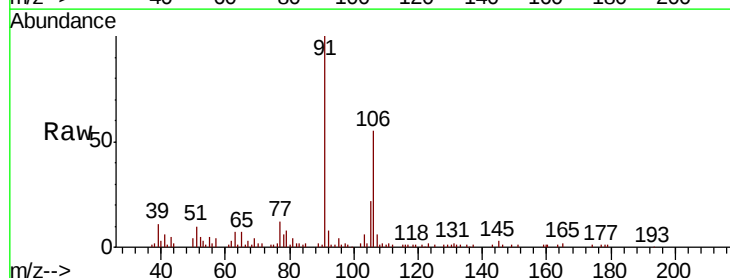
Instrument :
MSVOA_Y
ClientSampleId :

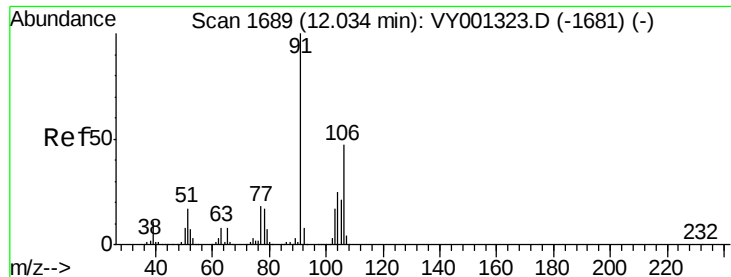
Tot Ion:117 Resp: 278511
Ion Ratio Lower Upper
117 100
82 57.2 45.5 68.3
119 32.0 25.8 38.6



#68
m/p-Xylenes
Concen: 2.899 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

Tgt Ion:106 Resp: 11715
Ion Ratio Lower Upper
106 100
91 192.3 162.8 244.2

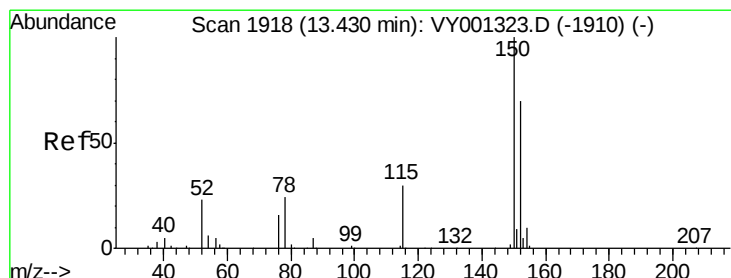
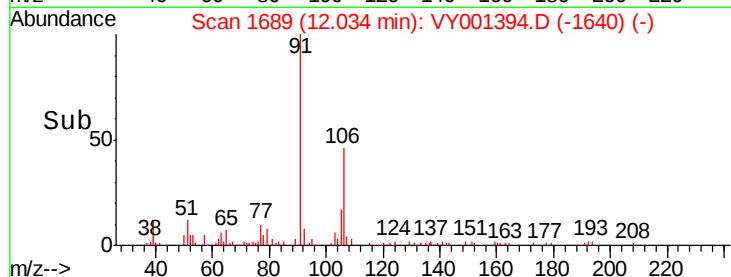
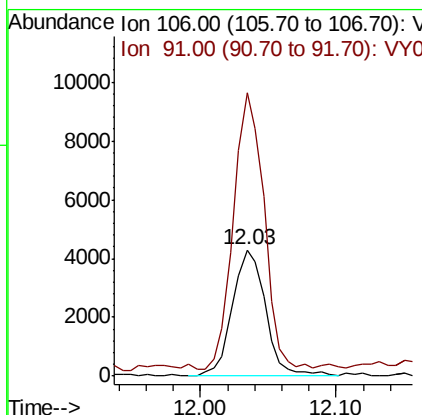
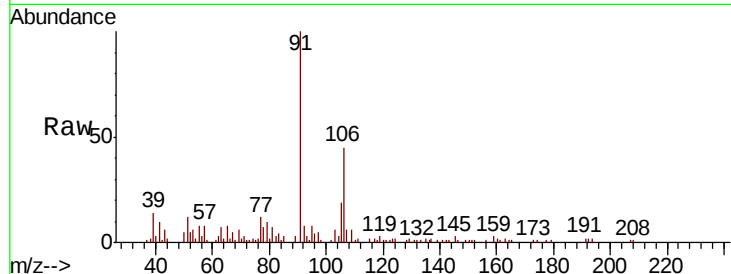




#69
o-Xylene
Concen: 1.887 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

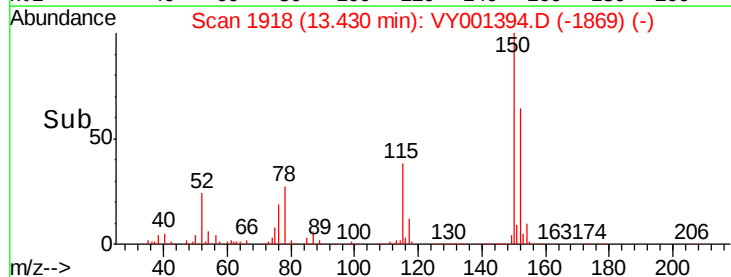
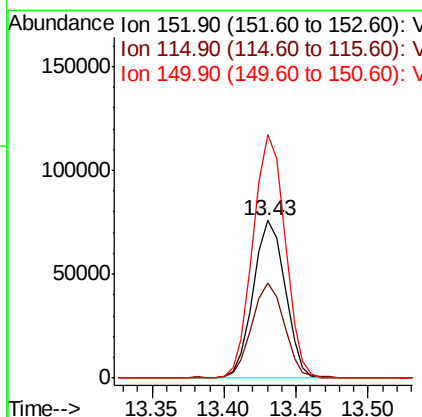
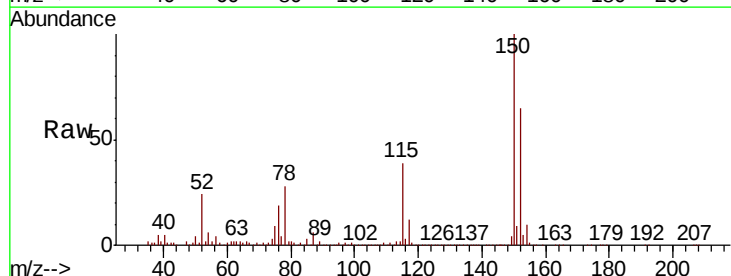
Instrument :
MSVOA_Y
ClientSampled :

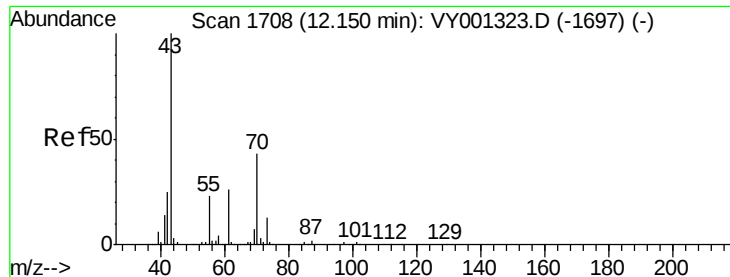
Tot Ion:106 Resp: 7337
Ion Ratio Lower Upper
106 100
91 200.7 106.3 319.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.00 min
Lab File: VY001394.D
Acq: 24 Jan 2020 19:37

Tgt Ion:152 Resp: 116325
Ion Ratio Lower Upper
152 100
115 61.3 30.9 92.8
150 155.8 0.0 349.2





#74

N-amvl acetate

Concen: 1.088 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.03 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion: 43 Resp: 3269

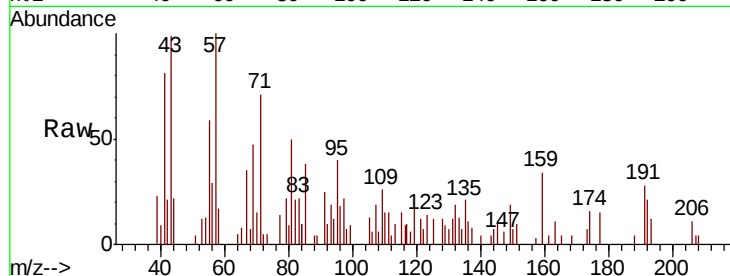
Ion Ratio Lower Upper

43 100

70 0.0 33.5 50.3#

55 0.0 18.2 27.2#

61 0.0 19.6 29.4#

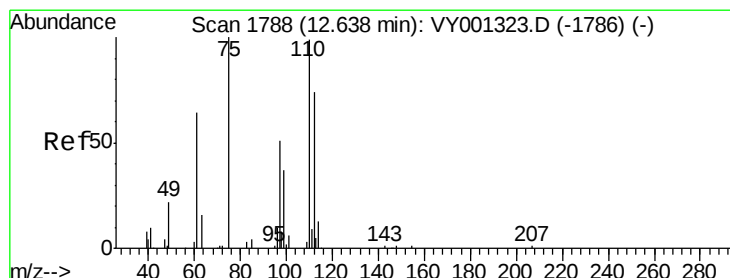
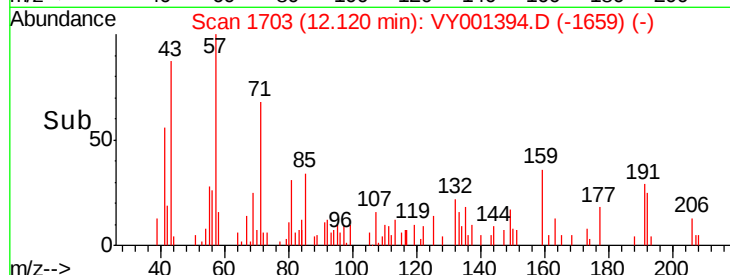
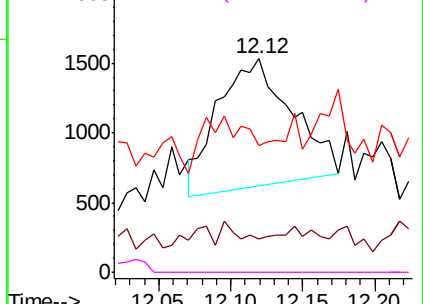


Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 46.255 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001394.D

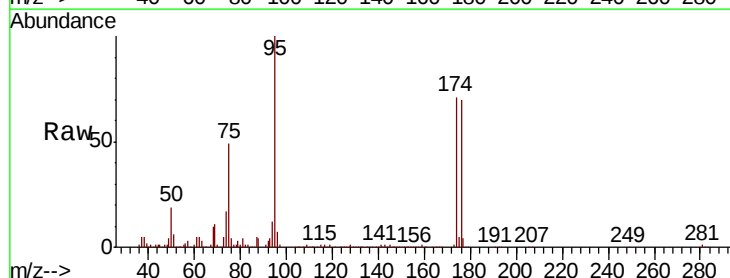
Acq: 24 Jan 2020 19:37

Tgt Ion: 75 Resp: 64837

Ion Ratio Lower Upper

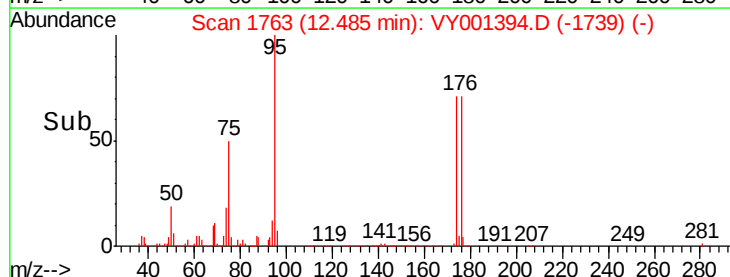
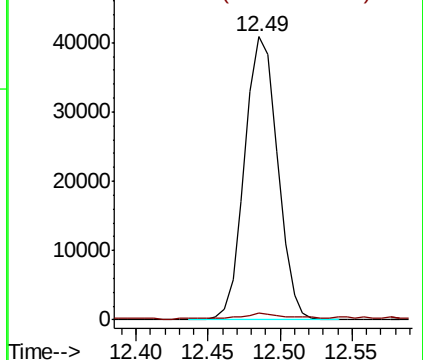
75 100

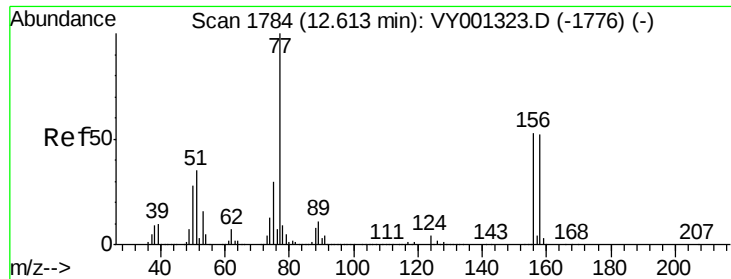
77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 2.352 ug/l

RT: 12.55 min Scan# 1773

Delta R.T. -0.07 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

ClientSampled :

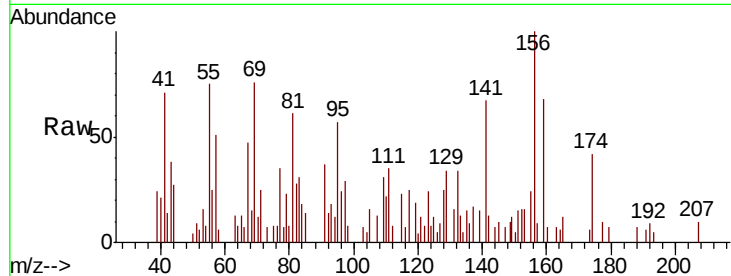
Tot Ion:156 Resp: 4782

Ion Ratio Lower Upper

156 100

77 6.2 104.7 313.9#

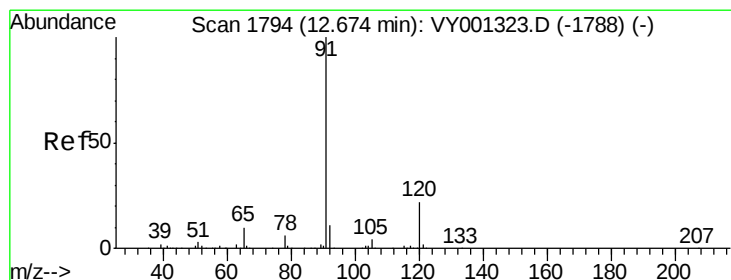
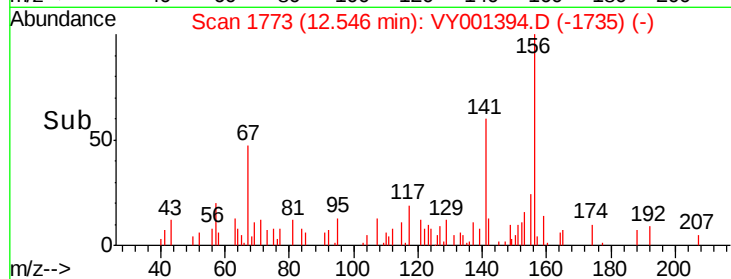
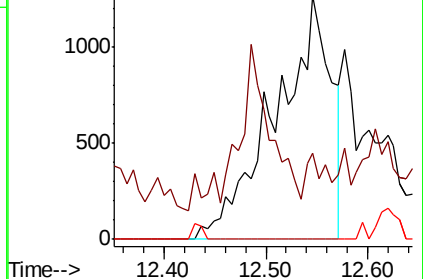
158 0.0 48.6 145.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.109 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.01 min

Lab File: VY001394.D

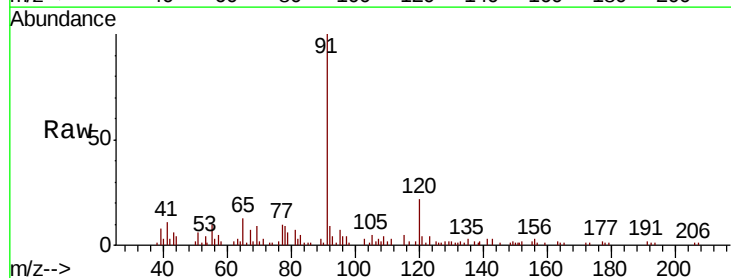
Acq: 24 Jan 2020 19:37

Tgt Ion: 91 Resp: 12254

Ion Ratio Lower Upper

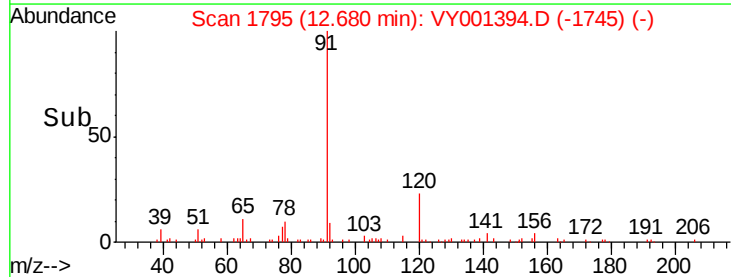
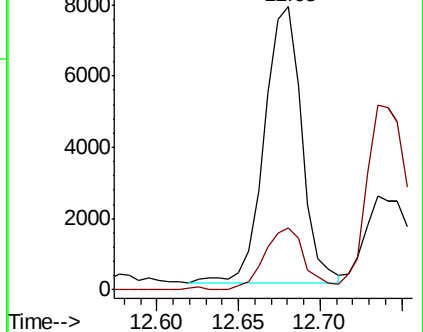
91 100

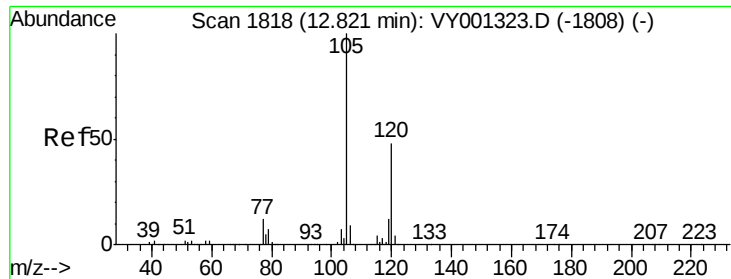
120 24.7 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V

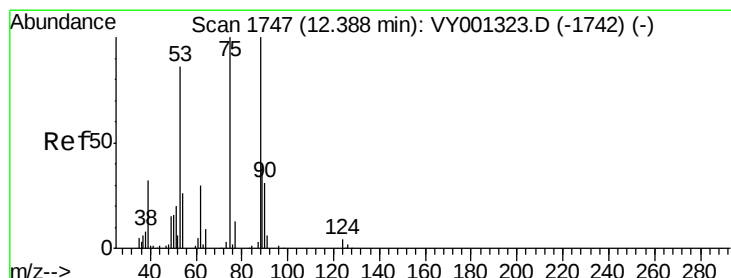
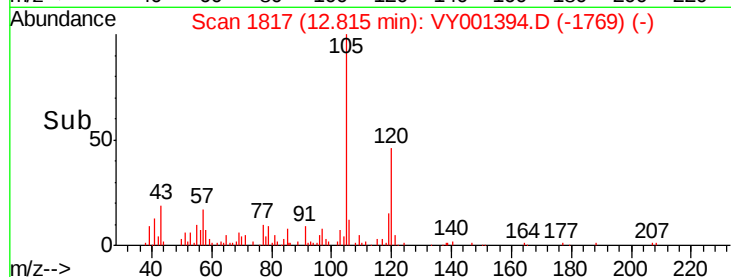
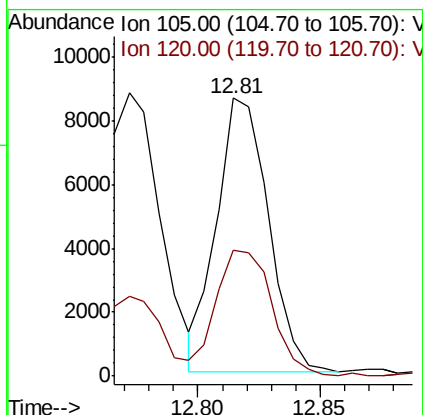
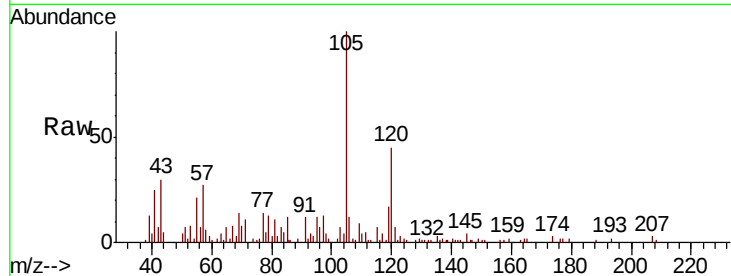




#80
 1,3,5-Trimethylbenzene
 Concen: 1.652 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

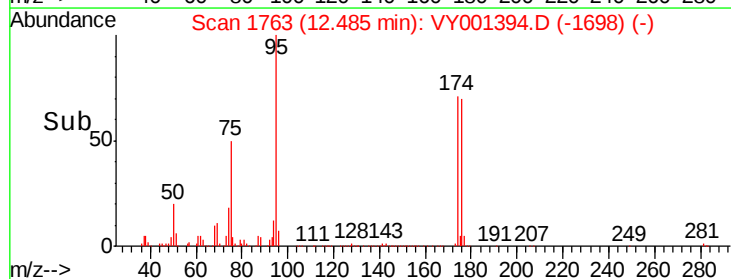
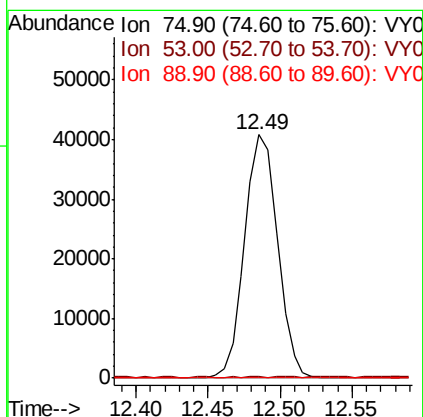
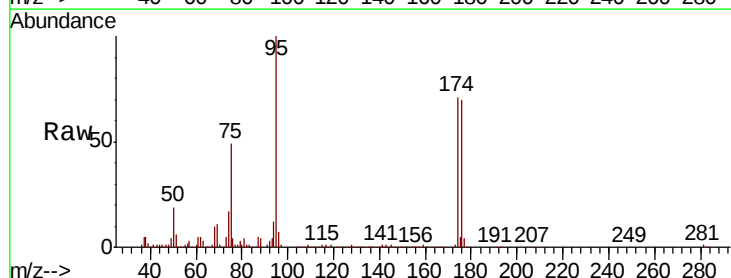
Instrument :
 MSVOA_Y
 ClientSampled :

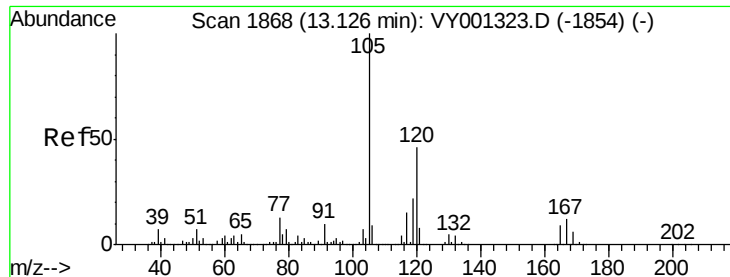
Tot Ion:105 Resp: 12656
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.3 72.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 87.533 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. 0.10 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

Tgt Ion: 75 Resp: 64837
 Ion Ratio Lower Upper
 75 100
 53 0.2 69.9 104.9#
 89 0.1 36.6 54.8#

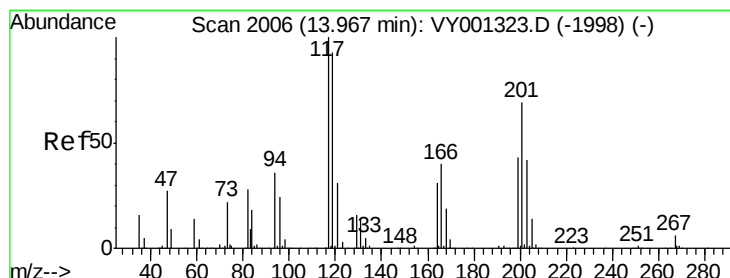
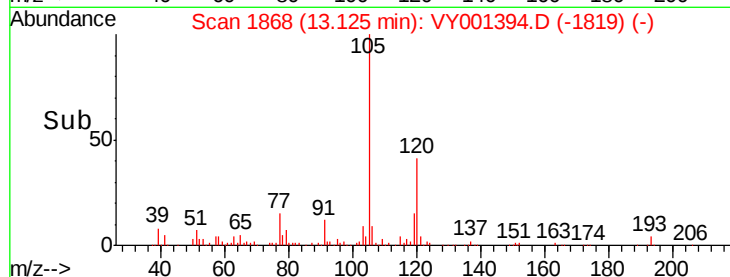
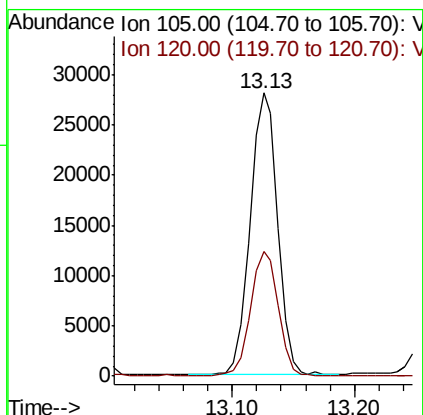
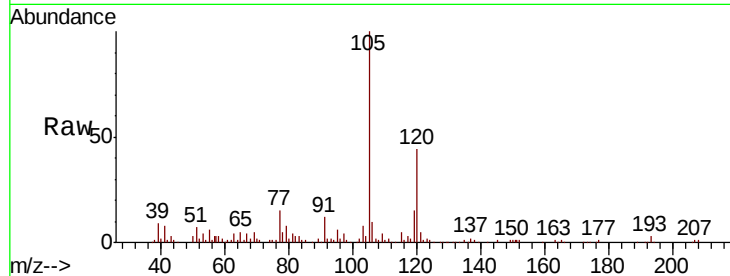




#84
 1,2,4-Trimethylbenzene
 Concen: 5.685 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

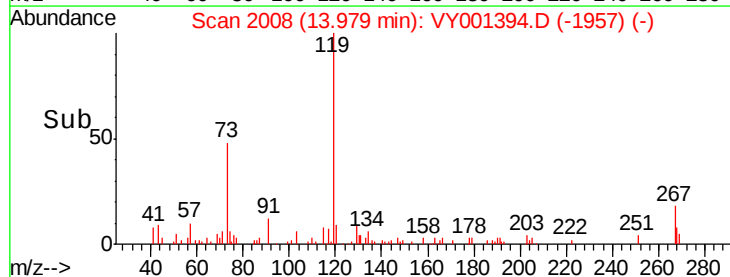
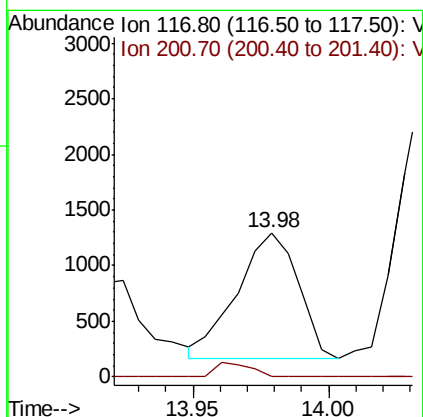
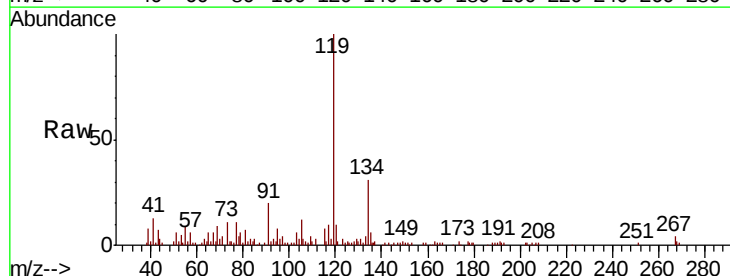
Instrument :
 MSVOA_Y
 ClientSampleId :

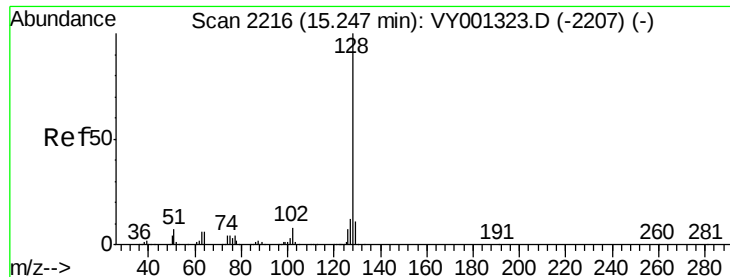
Tot Ion:105 Resp: 43729
 Ion Ratio Lower Upper
 105 100
 120 45.4 22.4 67.3



#90
 Hexachloroethane
 Concen: 1.148 ug/l
 RT: 13.98 min Scan# 2008
 Delta R.T. 0.01 min
 Lab File: VY001394.D
 Acq: 24 Jan 2020 19:37

Tgt Ion:117 Resp: 1760
 Ion Ratio Lower Upper
 117 100
 201 6.2 34.6 103.8#





#95

Naphthalene

Concen: 5.479 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001394.D

Acq: 24 Jan 2020 19:37

Instrument :

MSVOA_Y

ClientSampleId :

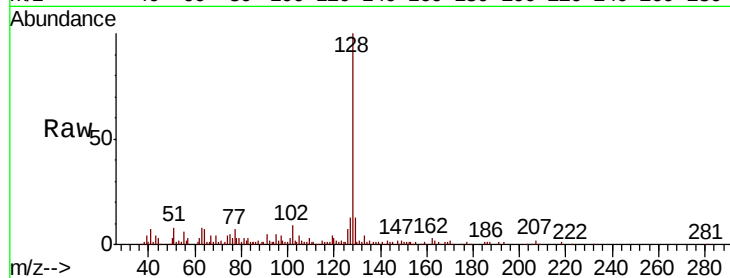
Tot Ion:128 Resp: 30366

Ion Ratio Lower Upper

128 100

127 13.8 10.2 15.2

129 13.0 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

