

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY102519\
 Data File : VY000423.D
 Acq On : 25 Oct 2019 12:53
 Operator : SY/MD
 Sample : K5543-02
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 26 01:44:11 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	214403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	354609	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	316739	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	131190	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	130768	57.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.64%	
35) Dibromofluoromethane	7.74	113	104526	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
50) Toluene-d8	10.19	98	414938	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
62) 4-Bromofluorobenzene	12.48	95	136950	43.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.62%	

Target Compounds

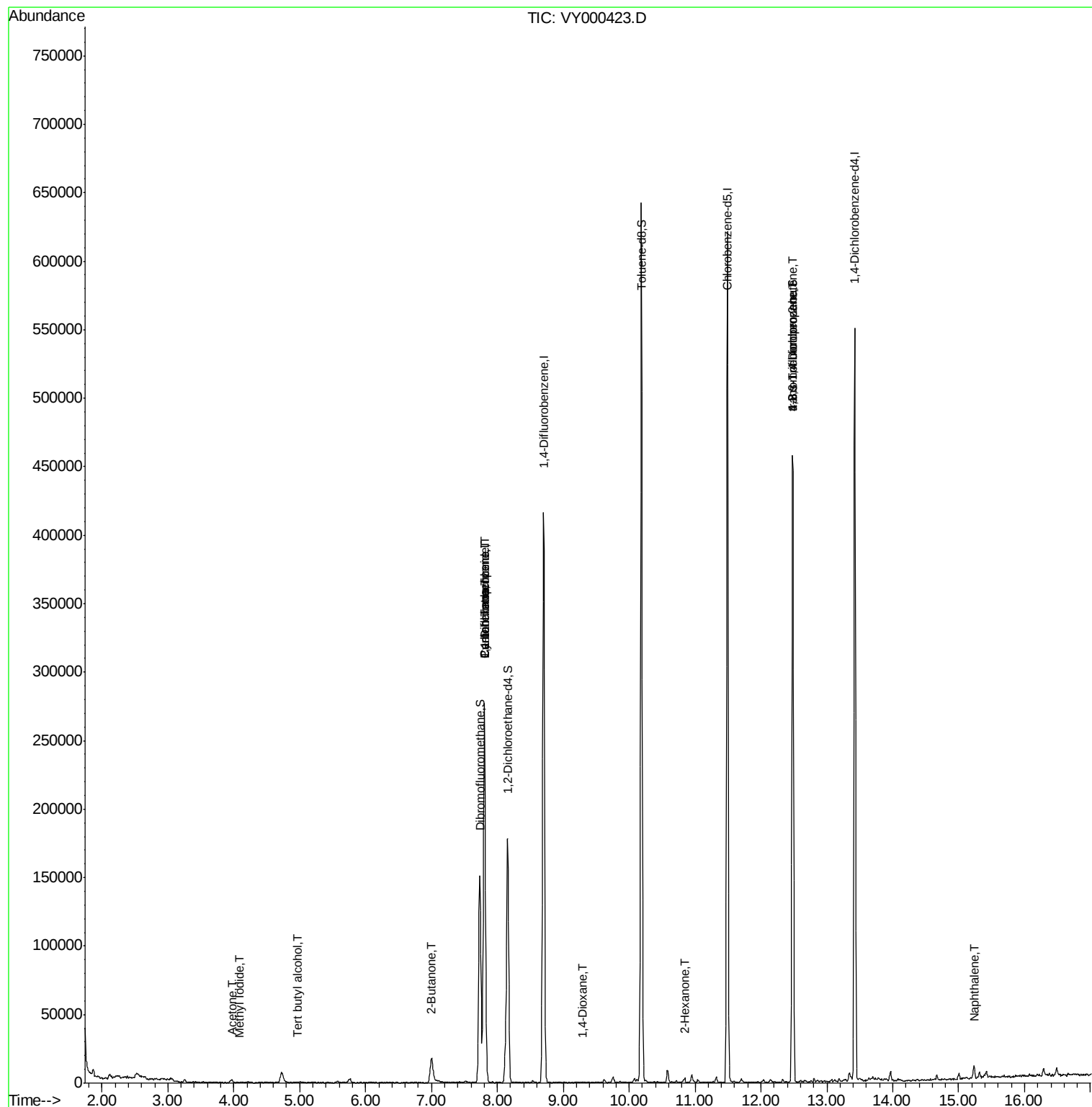
					Qvalue	
2) Dichlorodifluoromethane	1.91	85	245	Below Cal	#	41
10) Methyl Iodide	4.09	142	94	1.215	ug/l #	65
11) Tert butyl alcohol	4.97	59	531	2.244	ug/l #	73
16) Acetone	3.97	43	3078	4.203	ug/l #	78
20) Methylene Chloride	4.73	84	5646	Below Cal		89
25) 2-Butanone	7.00	43	1745	1.691	ug/l #	66
31) Cyclohexane	7.80	56	4921	1.137	ug/l #	46
36) 1,1-Dichloropropene	7.81	75	16091	4.635	ug/l #	48
38) Carbon Tetrachloride	7.80	117	20337	6.050	ug/l #	19
49) 1,4-Dioxane	9.29	88	41	1.987	ug/l #	32
59) 2-Hexanone	10.85	43	2226	1.573	ug/l	97
76) 1,2,3-Trichloropropane	12.48	75	74315	46.067	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	74315	100.793	ug/l #	14
95) Naphthalene	15.23	128	7652	1.213	ug/l #	96

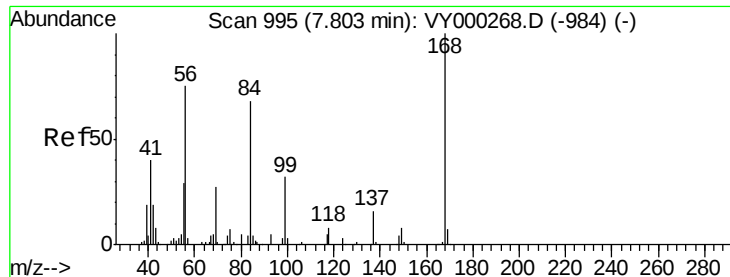
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

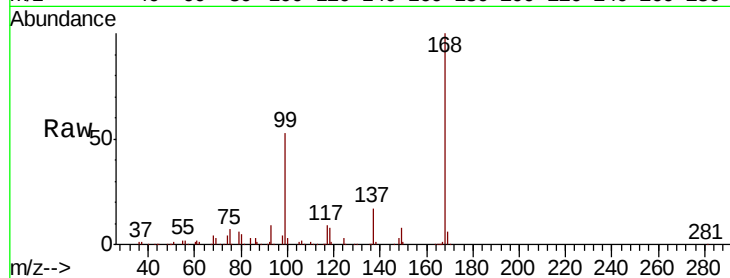
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 214403

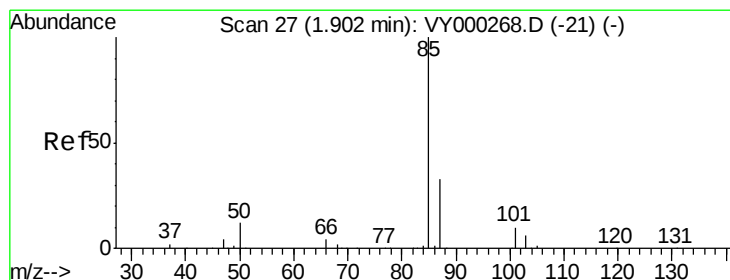
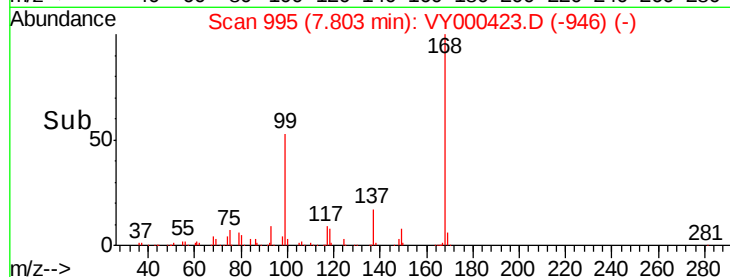
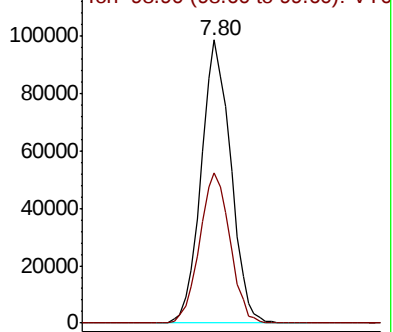
Ion Ratio Lower Upper

168 100

99 52.9 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VY000423.D (-946) (-)



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.91 min Scan# 28

Delta R.T. 0.01 min

Lab File: VY000423.D

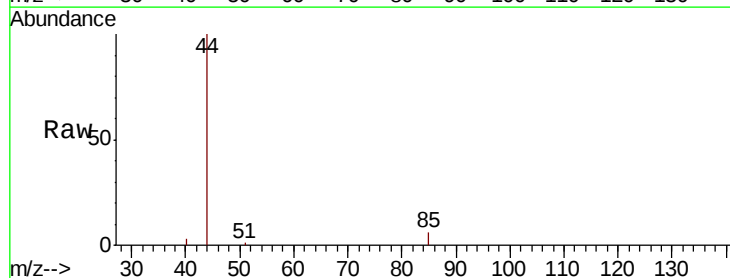
Acq: 25 Oct 2019 12:53

Tgt Ion: 85 Resp: 245

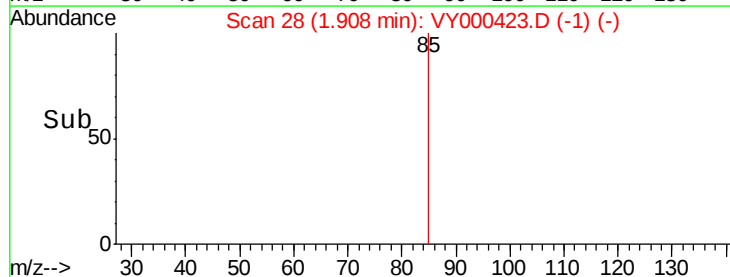
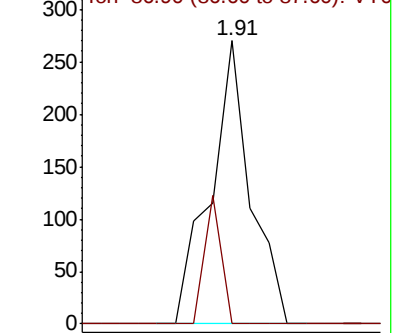
Ion Ratio Lower Upper

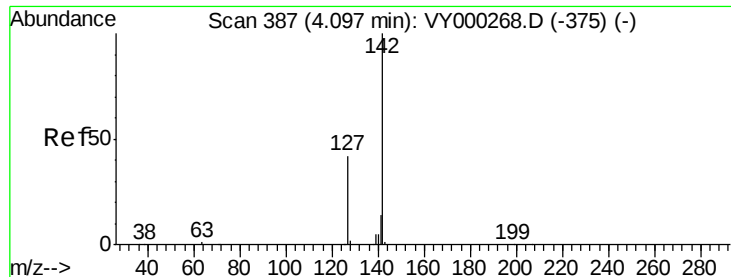
85 100

87 0.0 16.6 49.8#



Abundance Ion 84.90 (84.60 to 85.60): VY000423.D (-1) (-)

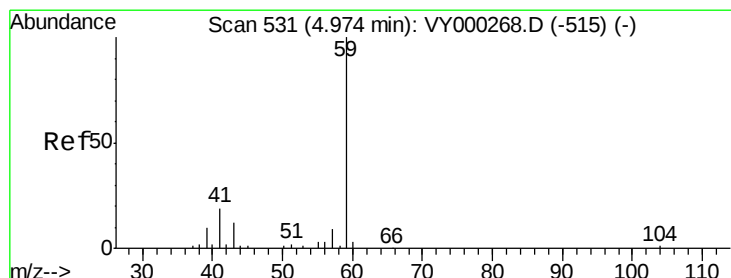
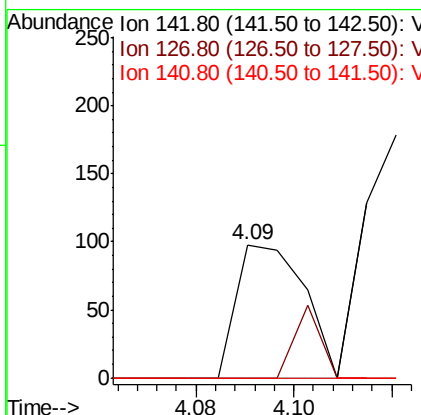
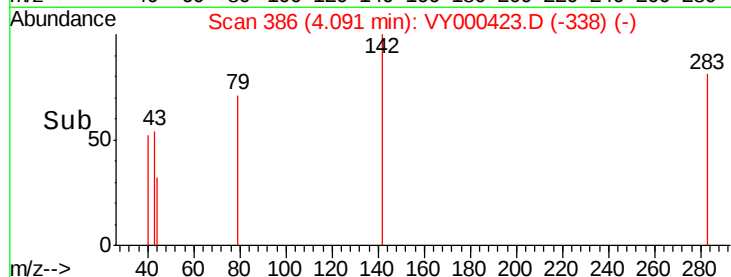
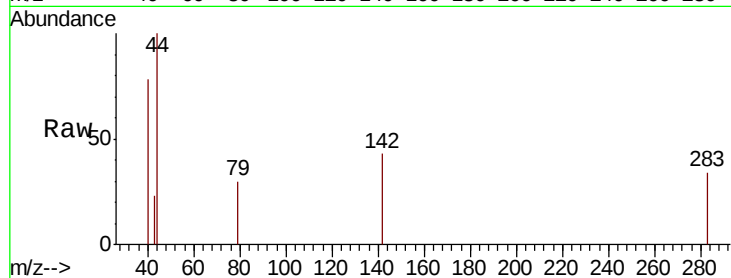




#10
Methyl Iodide
Concen: 1.215 ug/l
RT: 4.09 min Scan# 386
Delta R.T. -0.01 min
Lab File: VY000423.D
Acq: 25 Oct 2019 12:53

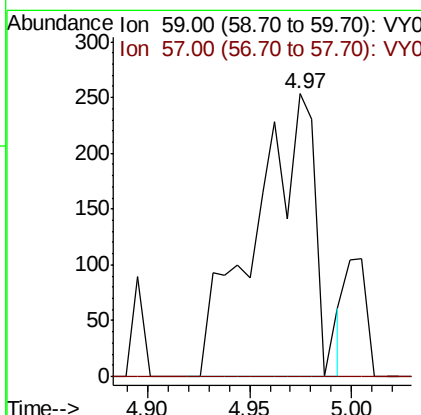
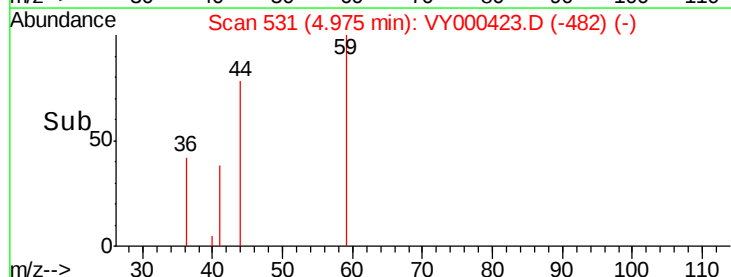
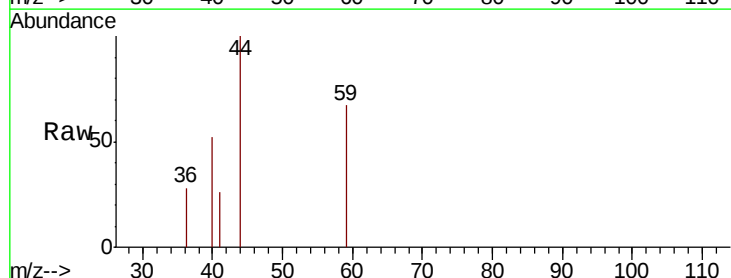
Instrument :
MSVOA_Y
ClientSampled :

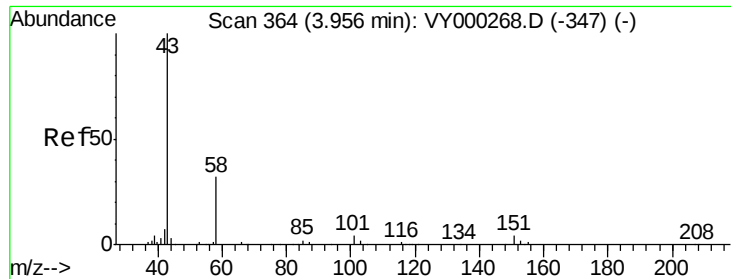
Tot Ion:142 Resp: 94
Ion Ratio Lower Upper
142 100
127 20.2 33.9 50.9#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 2.244 ug/l
RT: 4.97 min Scan# 531
Delta R.T. 0.00 min
Lab File: VY000423.D
Acq: 25 Oct 2019 12:53

Tgt Ion: 59 Resp: 531
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 4.203 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

Instrument :

MSVOA_Y

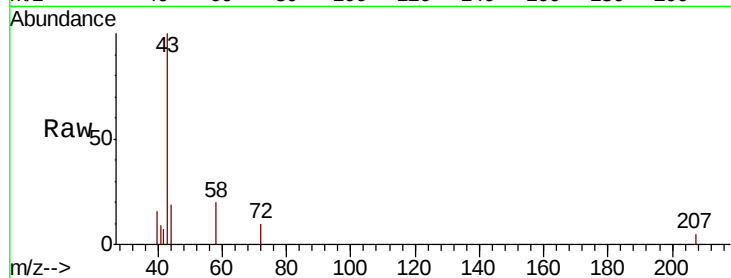
ClientSampleId :

Tot Ion: 43 Resp: 3078

Ion Ratio Lower Upper

43 100

58 20.2 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.97

1500

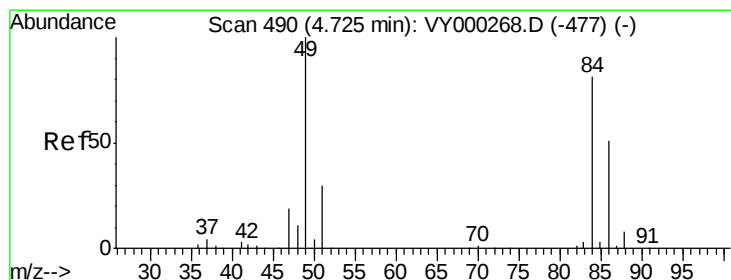
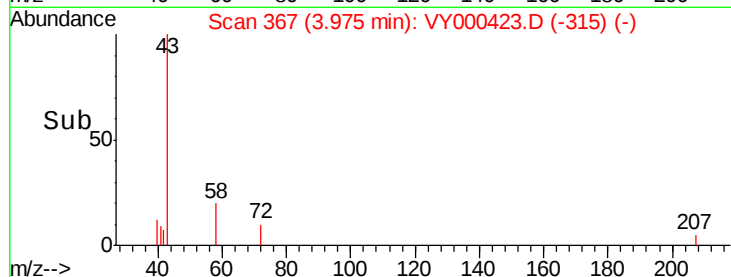
1000

500

0

3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

Tgt Ion: 84 Resp: 5646

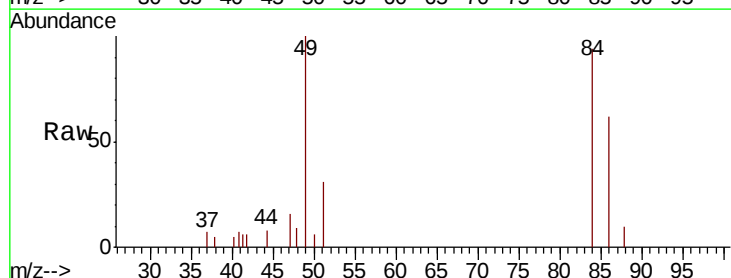
Ion Ratio Lower Upper

84 100

49 106.7 99.0 148.4

51 32.6 29.3 43.9

86 66.6 50.2 75.4



Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0

4000

3000

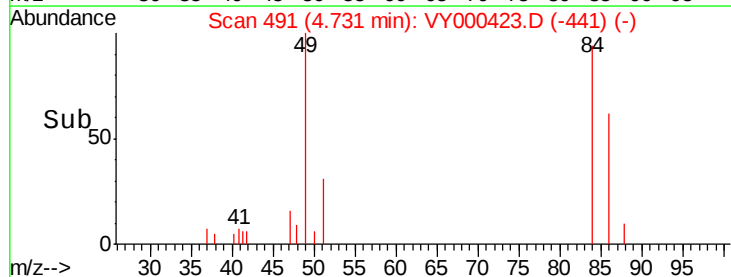
2000

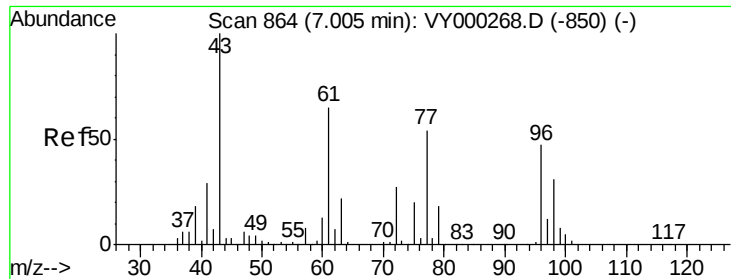
1000

0

4.60 4.70 4.80

Time-->





#25

2-Butanone

Concen: 1.691 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

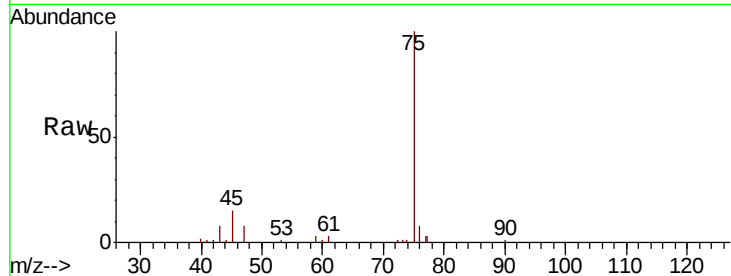
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 43 Resp: 1745

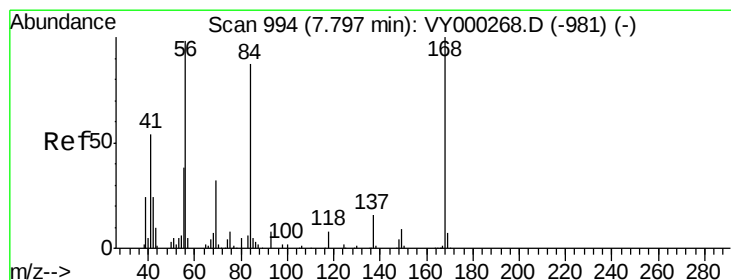
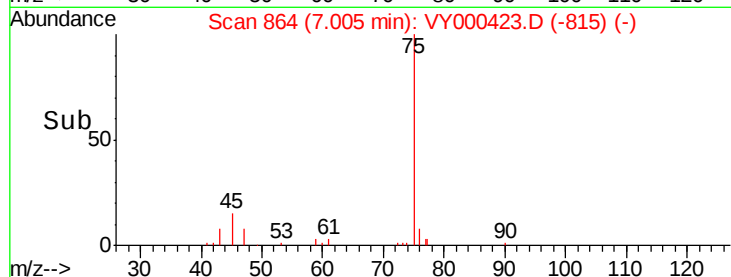
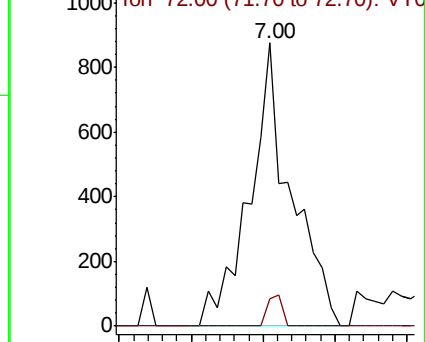
Ion Ratio Lower Upper

43 100

72 9.5 21.4 32.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 72.00 (71.70 to 72.70): VY0



#31

Cyclohexane

Concen: 1.137 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

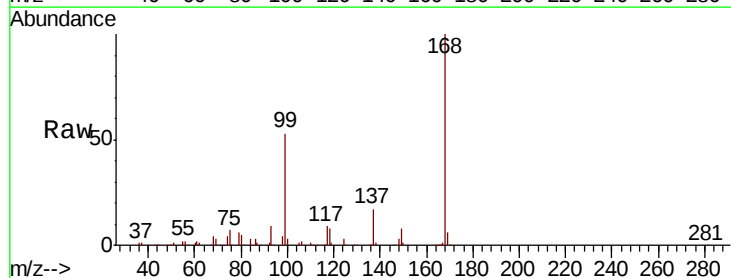
Tgt Ion: 56 Resp: 4921

Ion Ratio Lower Upper

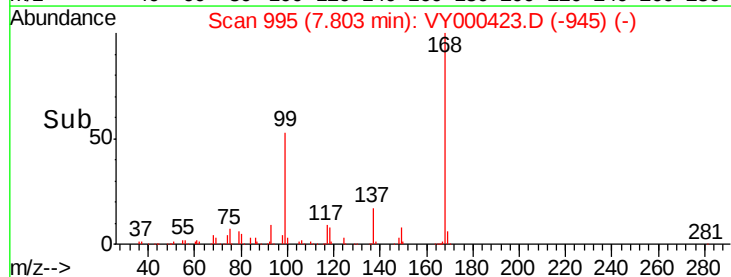
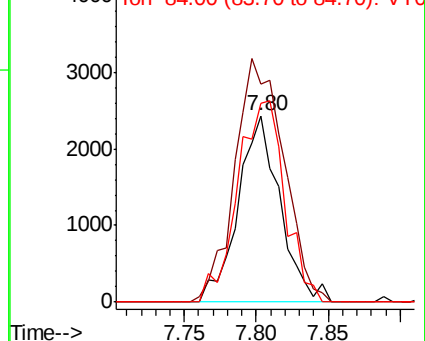
56 100

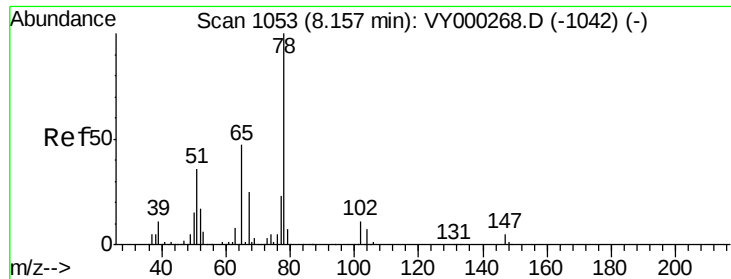
69 117.0 26.3 39.5#

84 106.5 70.8 106.2#



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

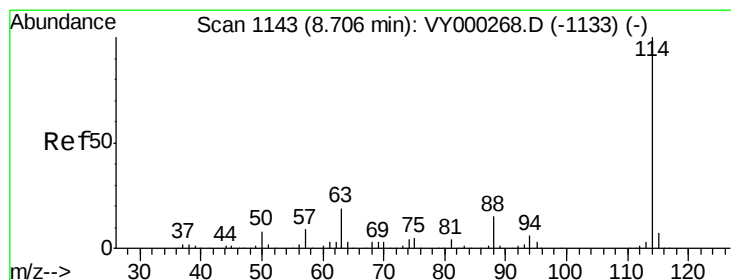
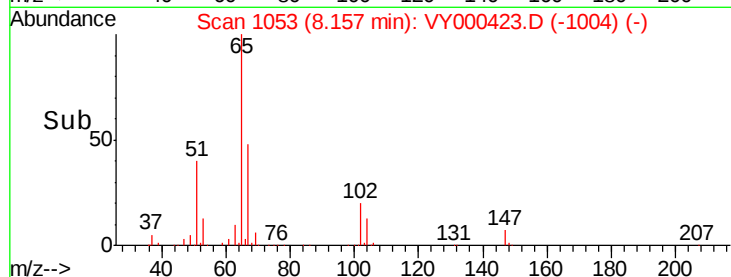
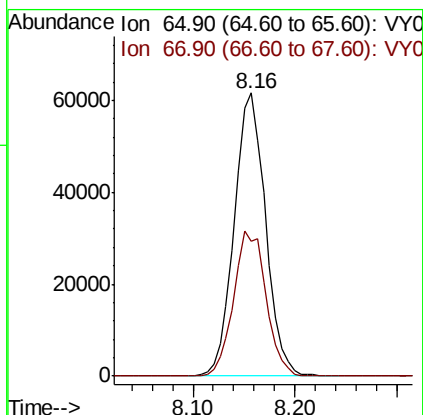
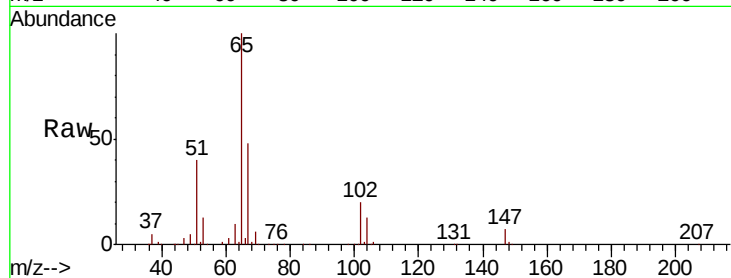




#33
 1,2-Dichloroethane-d4
 Concen: 57.821 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VY000423.D
 Acq: 25 Oct 2019 12:53

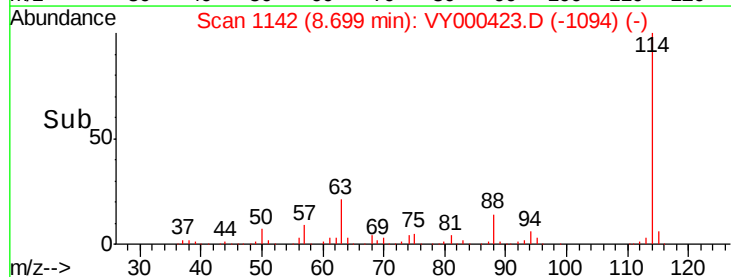
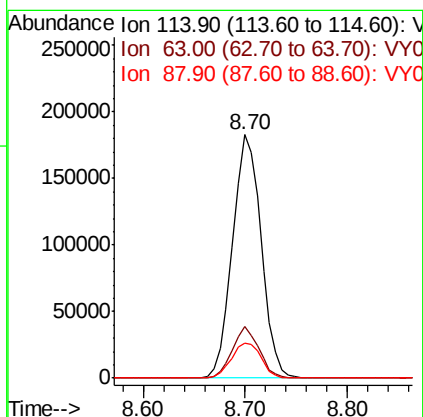
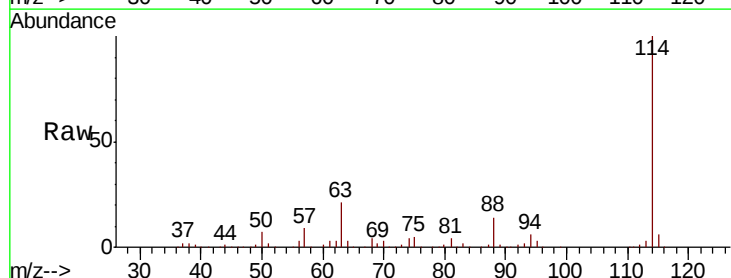
Instrument :
 MSVOA_Y
 ClientSampleId :

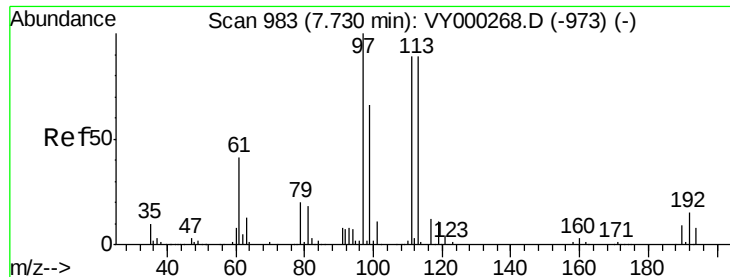
Tot Ion: 65 Resp: 130768
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY000423.D
 Acq: 25 Oct 2019 12:53

Tgt Ion: 114 Resp: 354609
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 37.2
 88 14.4 0.0 30.2

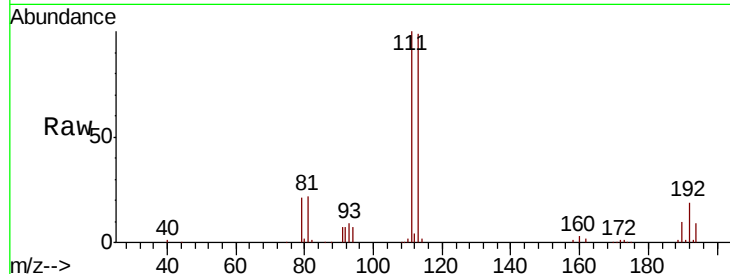




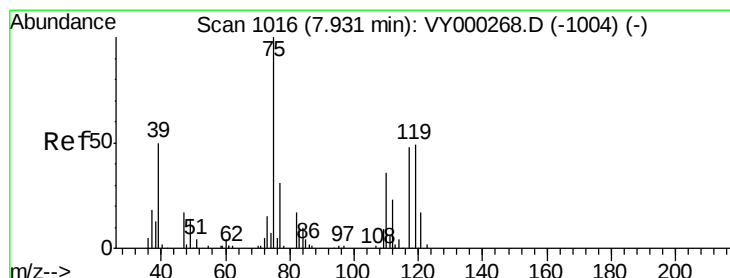
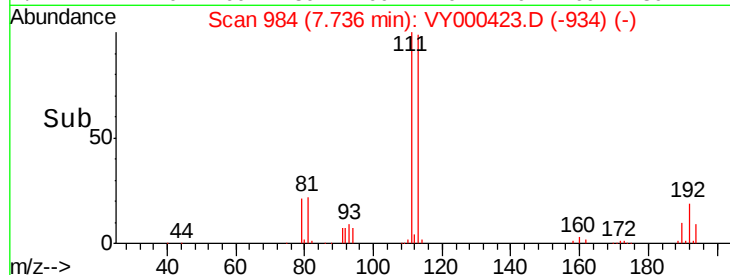
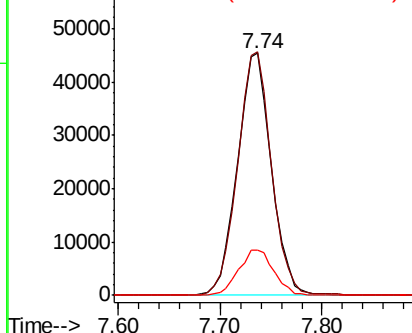
#35
 Dibromofluoromethane
 Concen: 48.866 ug/l
 RT: 7.74 min Scan# 984
 Delta R.T. 0.01 min
 Lab File: VY000423.D
 Acq: 25 Oct 2019 12:53

Instrument :
 MSVOA_Y
 ClientSampleId :

Tot Ion:113 Resp: 104526
 Ion Ratio Lower Upper
 113 100
 111 100.2 81.6 122.4
 192 19.4 15.3 22.9

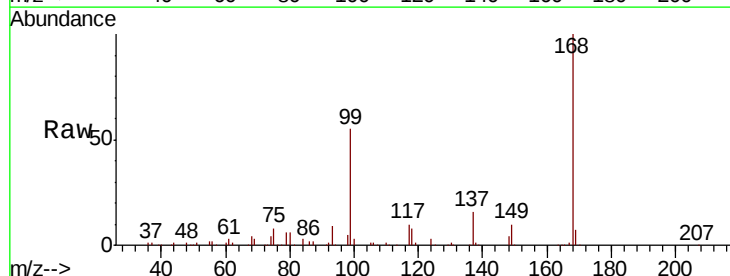


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

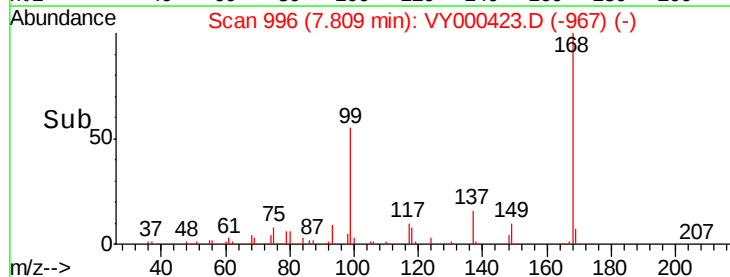
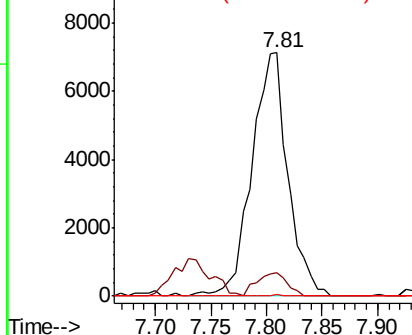


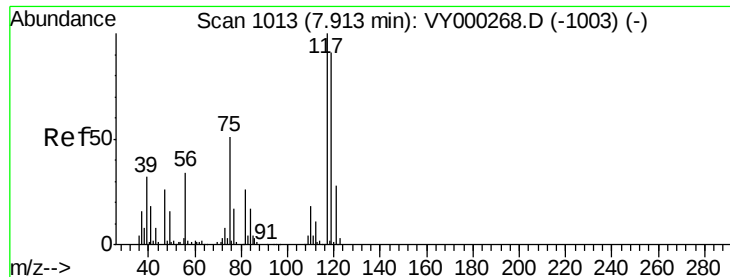
#36
 1,1-Dichloropropene
 Concen: 4.635 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.12 min
 Lab File: VY000423.D
 Acq: 25 Oct 2019 12:53

Tgt Ion: 75 Resp: 16091
 Ion Ratio Lower Upper
 75 100
 110 8.0 18.4 55.4#
 77 0.1 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: 6.050 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.11 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

Instrument :

MSVOA_Y

ClientSampleId :

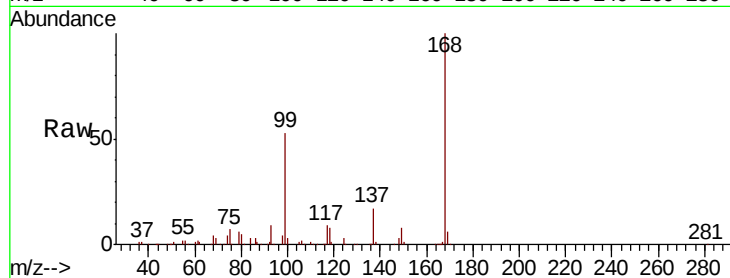
Tot Ion:117 Resp: 20337

Ion Ratio Lower Upper

117 100

119 5.8 72.8 109.2#

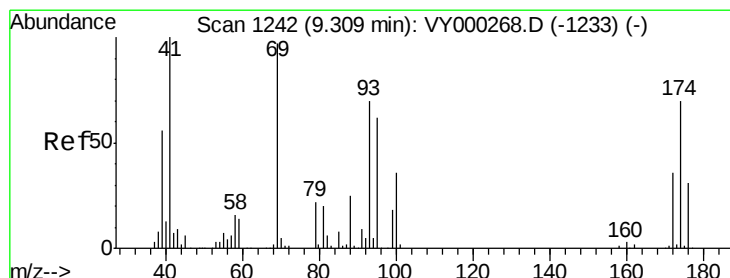
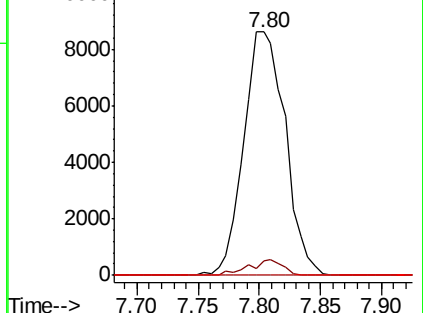
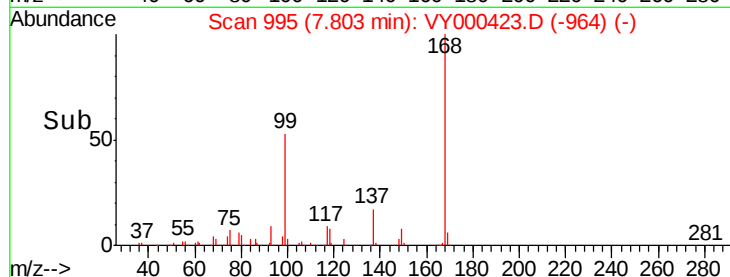
121 0.0 22.2 33.2#



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



#49

1,4-Dioxane

Concen: 1.987 ug/l

RT: 9.29 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

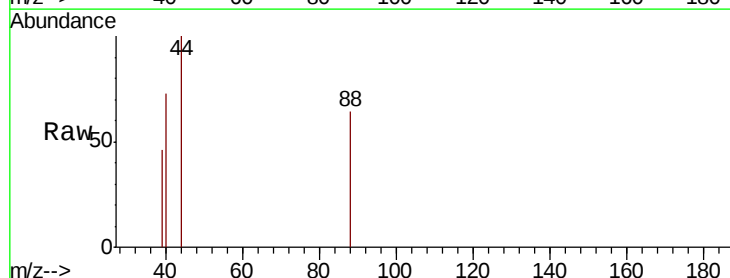
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 51.2 25.6 38.4#

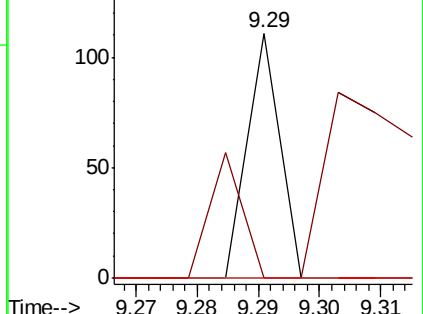
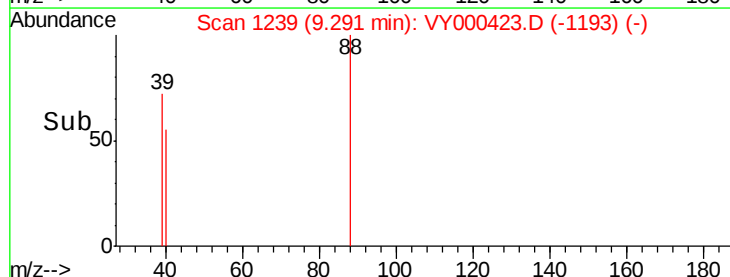
58 0.0 54.6 81.8#

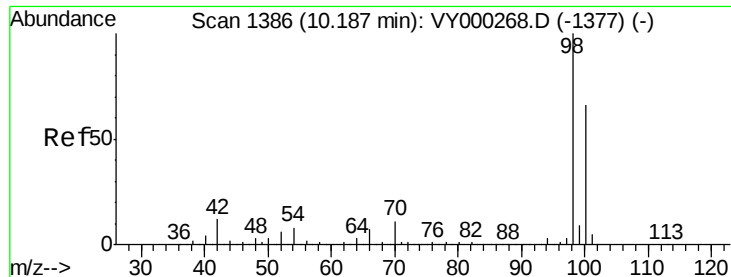


Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#50

Toluene-d8

Concen: 50.428 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

Instrument :

MSVOA_Y

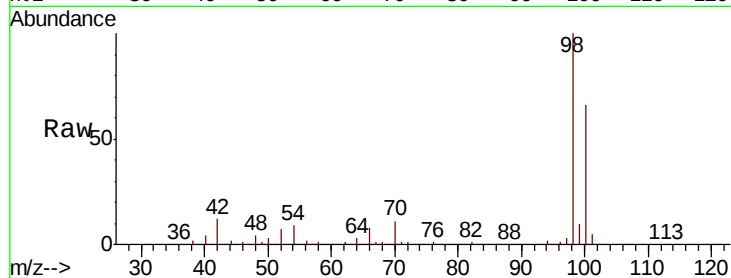
ClientSampleId :

Tot Ion: 98 Resp: 414938

Ion Ratio Lower Upper

98 100

100 66.0 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VY000423.D (-1377) (-)

Ion 100.00 (99.70 to 100.70): VY000423.D (-1377) (-)

10.19

250000

200000

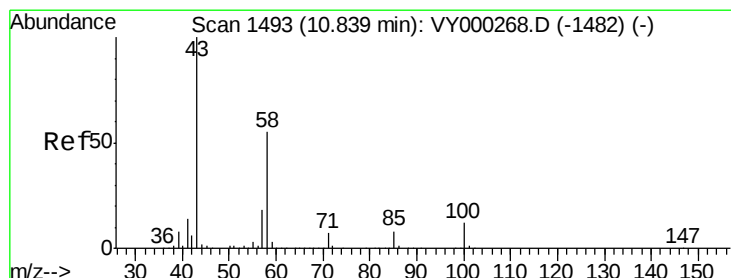
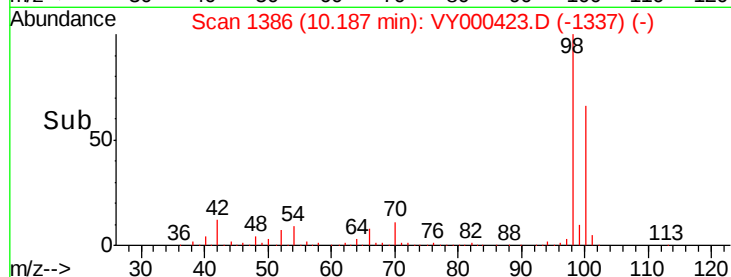
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.573 ug/l

RT: 10.85 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VY000423.D

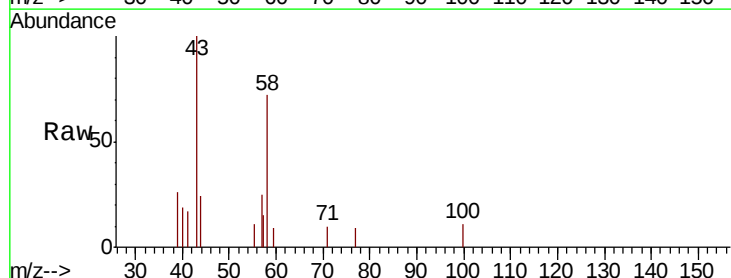
Acq: 25 Oct 2019 12:53

Tgt Ion: 43 Resp: 2226

Ion Ratio Lower Upper

43 100

58 57.7 27.7 83.1



Abundance Ion 43.00 (42.70 to 43.70): VY000423.D (-1444) (-)

Ion 58.00 (57.70 to 58.70): VY000423.D (-1444) (-)

10.85

1200

1000

800

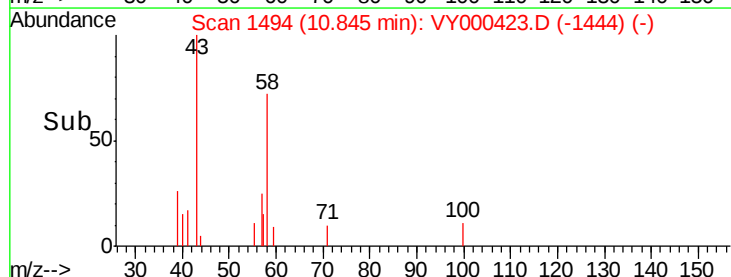
600

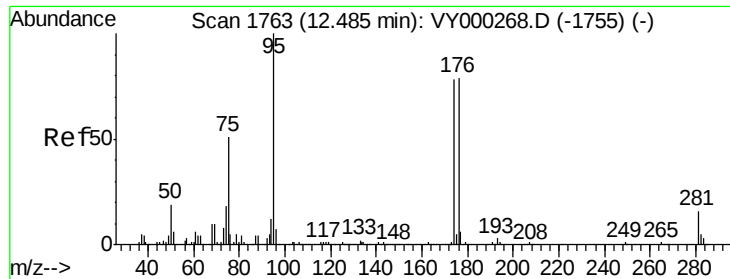
400

200

0

Time-->

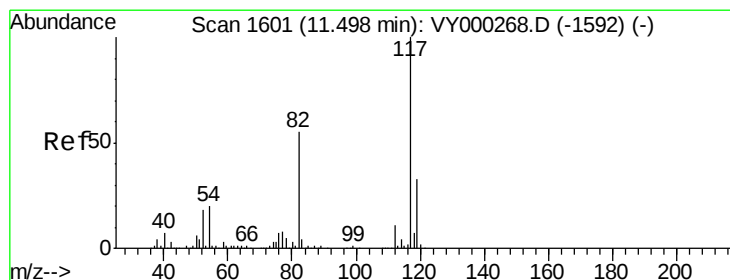
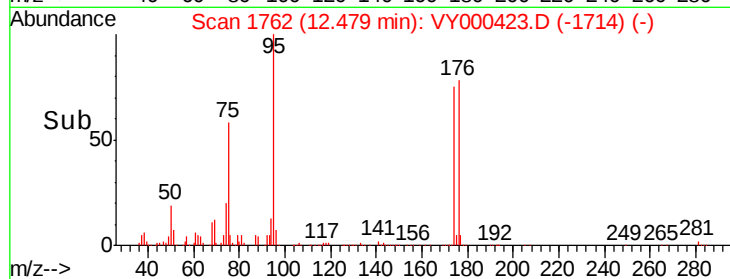
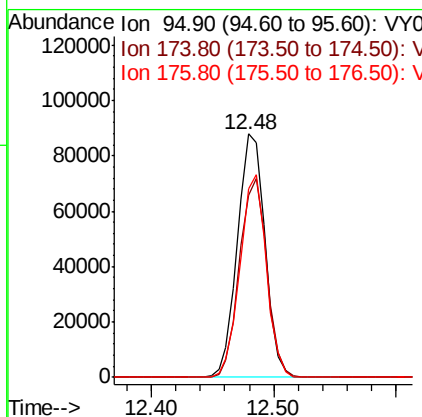
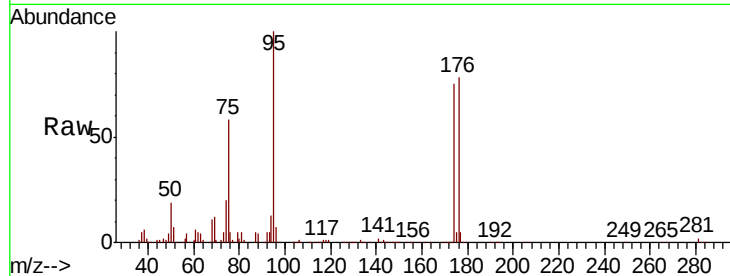




#62
4-Bromofluorobenzene
Concen: 43.810 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY000423.D
Acq: 25 Oct 2019 12:53

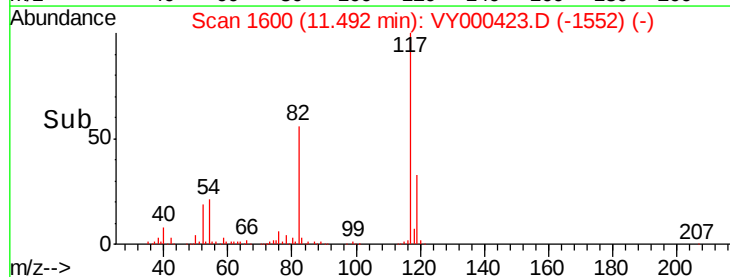
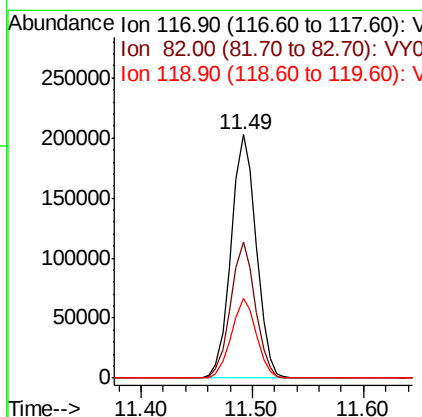
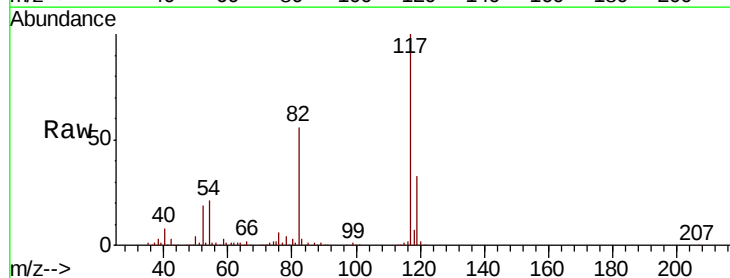
Instrument :
MSVOA_Y
ClientSampled :

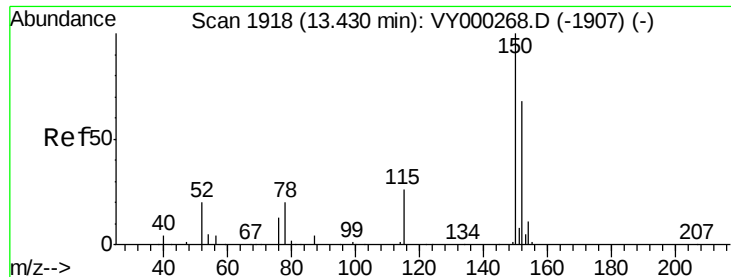
Tot Ion	Ratio	Lower	Upper
95	100		
174	81.1	0.0	159.6
176	79.8	0.0	153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY000423.D
Acq: 25 Oct 2019 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.7	65.5
119	32.9	26.6	39.8



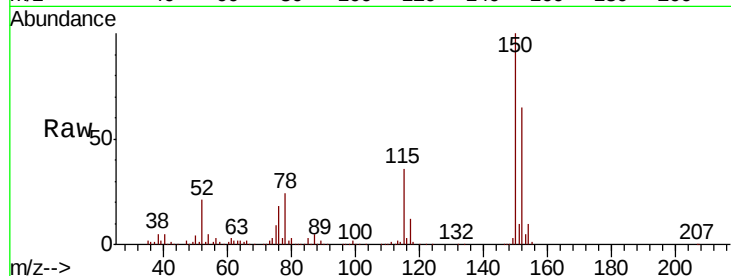


#72

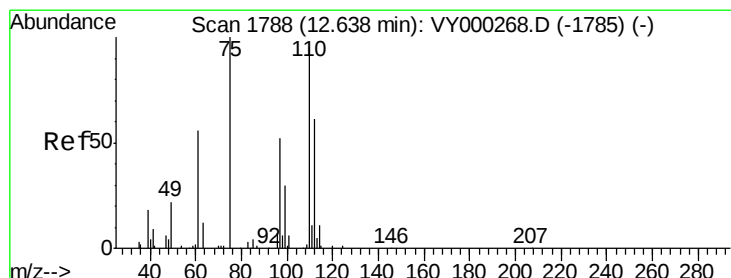
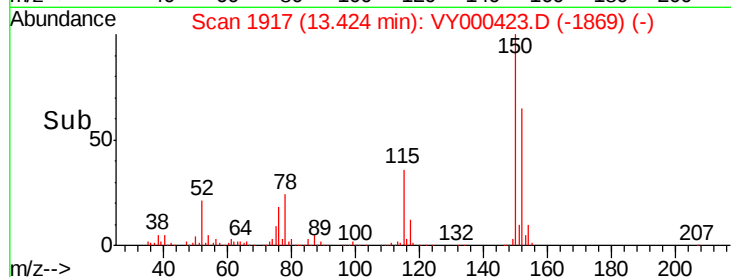
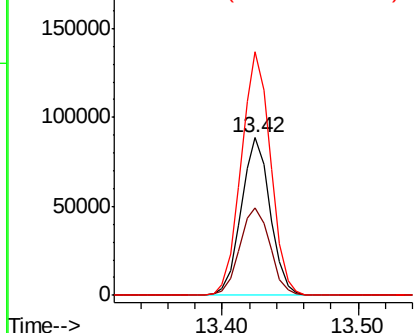
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. -0.01 min
Lab File: VY000423.D
Acq: 25 Oct 2019 12:53

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.3	88.0
150	156.7	0.0	348.4



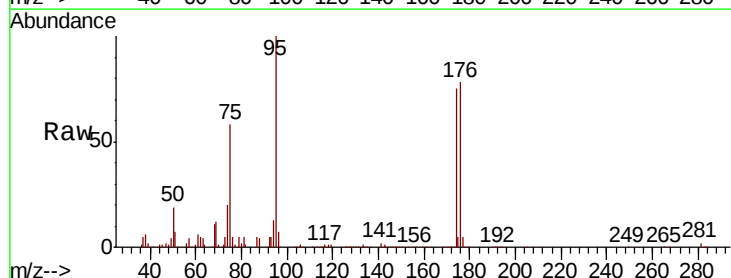
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



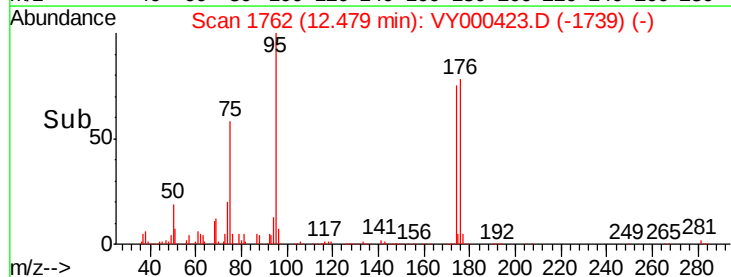
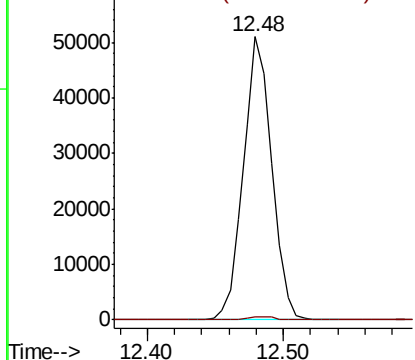
#76

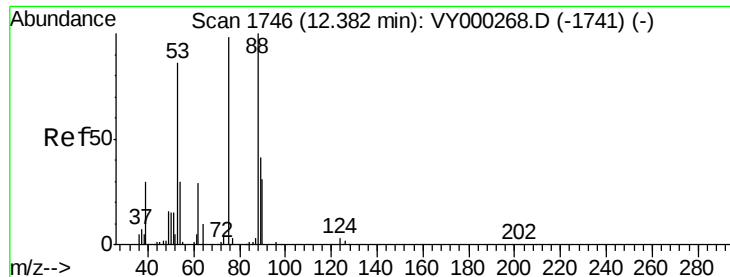
1,2,3-Trichloropropane
Concen: 46.067 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.16 min
Lab File: VY000423.D
Acq: 25 Oct 2019 12:53

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	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: 100.793 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

Instrument :

MSVOA_Y

ClientSampleId :

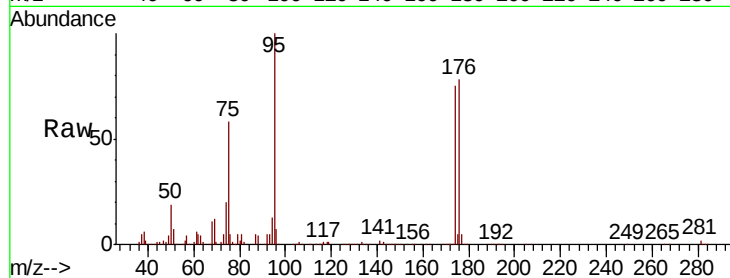
Tot Ion: 75 Resp: 74315

Ion Ratio Lower Upper

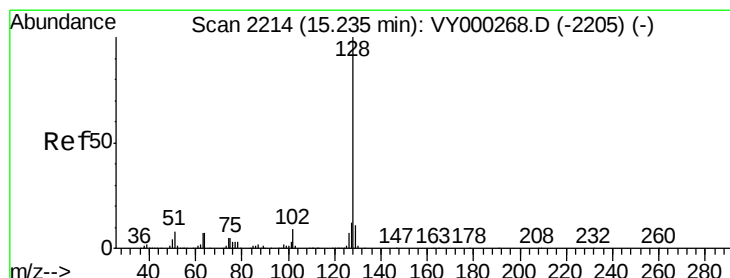
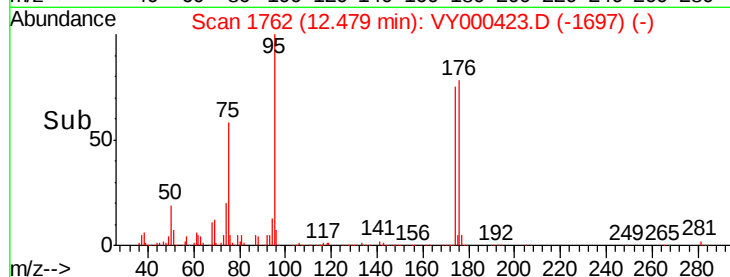
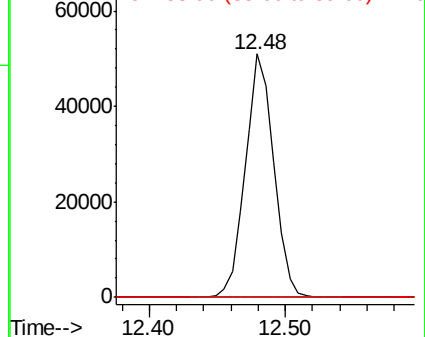
75 100

53 0.0 71.3 106.9#

89 0.0 35.1 52.7#



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: 1.213 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY000423.D

Acq: 25 Oct 2019 12:53

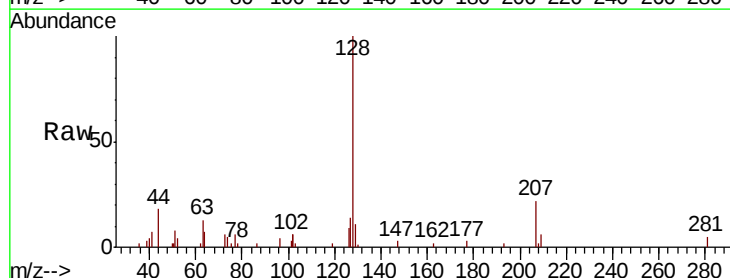
Tgt Ion:128 Resp: 7652

Ion Ratio Lower Upper

128 100

127 12.4 9.6 14.4

129 8.5 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

