

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY102519\
 Data File : VY000424.D
 Acq On : 25 Oct 2019 13:17
 Operator : SY/MD
 Sample : K5153-05
 Misc : 6.76G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 26 01:44:23 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	7.79	168	78	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.71	114	65	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-13.43

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	21	25.52	ug/l	0.18
Spiked Amount			Recovery	=	51.04%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount			Recovery	=	0.00%	
50) Toluene-d8	10.19	98	109	72.27	ug/l	0.00
Spiked Amount			Recovery	=	144.54%	
62) 4-Bromofluorobenzene	12.48	95	51	89.00	ug/l	0.00
Spiked Amount			Recovery	=	178.00%	

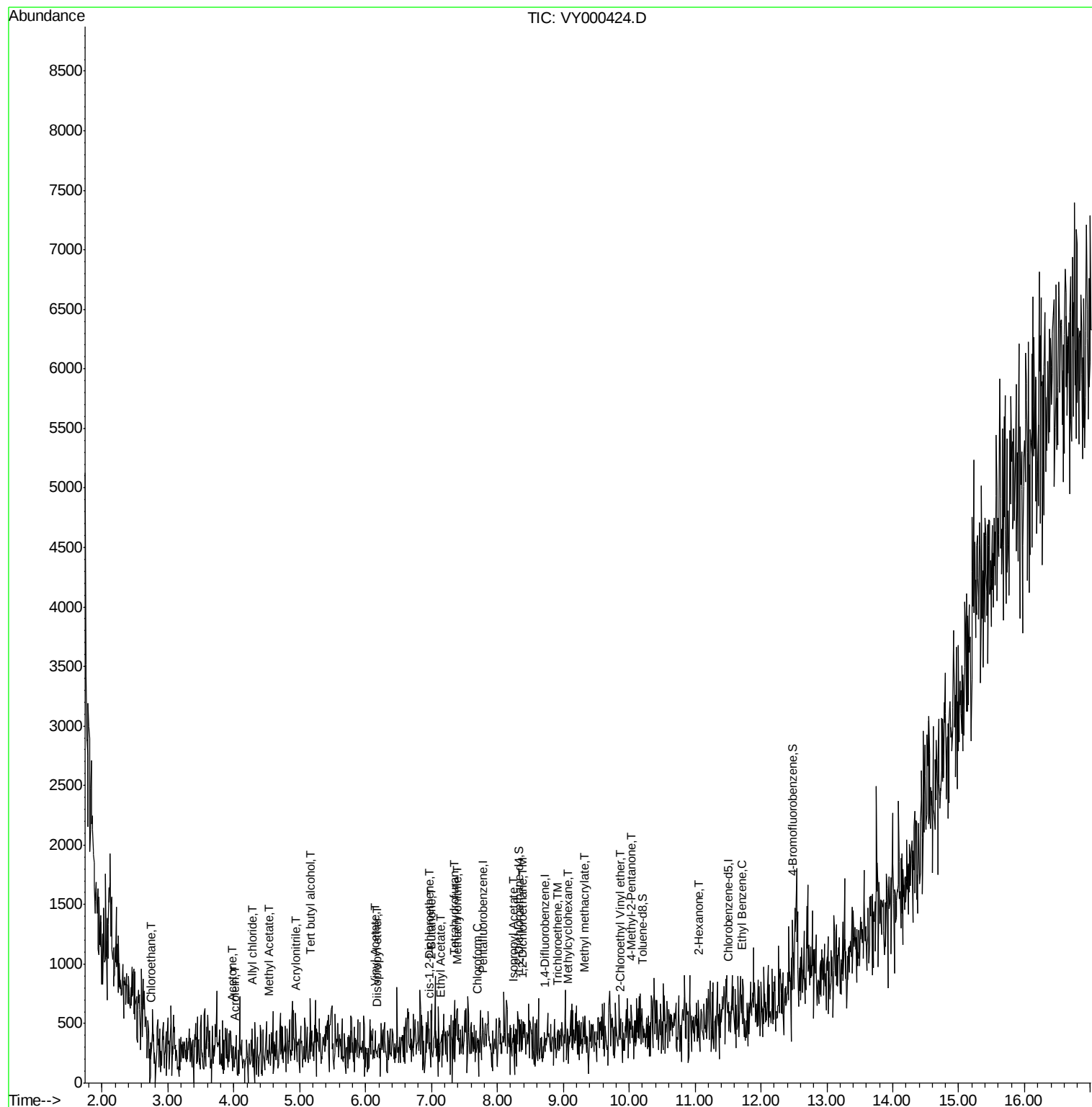
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.75	64	19	30.613	ug/l #	43
11) Tert butyl alcohol	5.17	59	68	789.739	ug/l #	73
13) Acrolein	4.01	56	20	198.121	ug/l #	15
14) Allyl chloride	4.29	41	26	19.916	ug/l #	24
15) Acrylonitrile	4.95	53	67	257.518	ug/l #	19
16) Acetone	3.97	43	46	172.640	ug/l #	42
18) Methyl Acetate	4.53	43	68	102.715	ug/l #	50
22) Diisopropyl ether	6.18	45	53	19.195	ug/l #	34
23) Vinyl Acetate	6.15	43	53	29.423	ug/l #	71
25) 2-Butanone	7.00	43	35	93.248	ug/l #	48
27) cis-1,2-Dichloroethene	6.98	96	41	41.922	ug/l #	1
29) Tetrahydrofuran	7.35	42	19	83.526	ug/l #	34
30) Chloroform	7.71	83	33	21.742	ug/l #	18
37) Ethyl Acetate	7.13	43	29	76.960	ug/l #	67
39) Methylcyclohexane	9.07	83	41	49.225	ug/l #	17
41) Methacrylonitrile	7.38	41	25	139.379	ug/l #	1
42) 1,2-Dichloroethane	8.38	62	34	64.720	ug/l #	72
43) Isopropyl Acetate	8.24	43	50	69.784	ug/l #	53
44) Trichloroethene	8.92	130	38	73.640	ug/l	2
48) Methyl methacrylate	9.32	41	37	117.833	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	74	200.245	ug/l #	36
58) 2-Chloroethyl Vinyl ether	9.86	63	21	100.693	ug/l #	46
59) 2-Hexanone	11.05	43	57	219.746	ug/l #	24
67) Ethyl Benzene	11.71	91	24	5.733	ug/l #	43

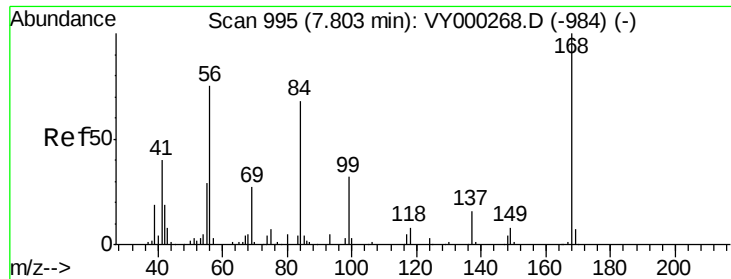
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Oct 26 01:44:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y101119S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 17 02:03:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 992

Delta R.T. -0.02 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

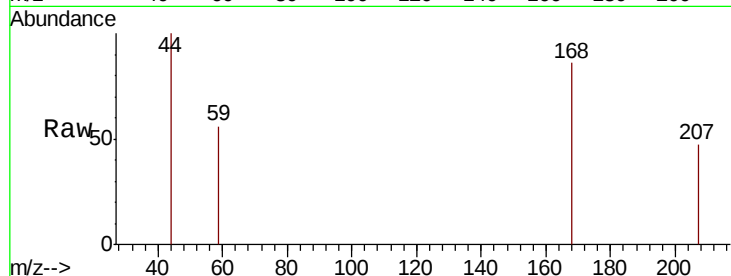
Instrument :
MSVOA_Y
ClientSampled :

Tot Ion:168 Resp: 78

Ion Ratio Lower Upper

168 100

99 0.0 46.6 69.8#



Abundance Ion 167.90 (167.60 to 168.60): VY000268.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000268.D (-984) (-)

7.79

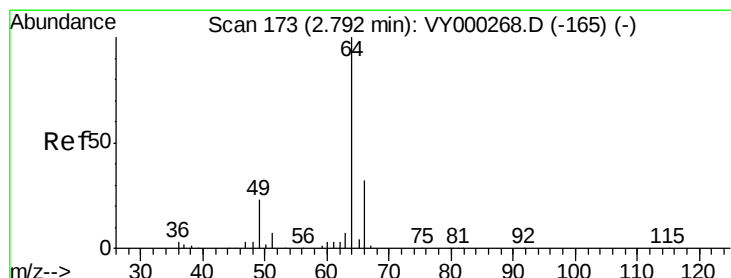
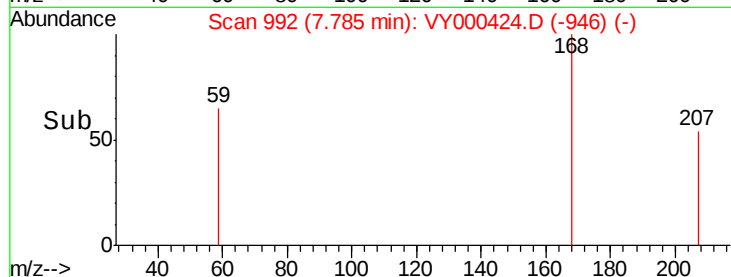
150

100

50

0

Time--> 7.76 7.78 7.80



#6

Chloroethane

Concen: 30.613 ug/l

RT: 2.75 min Scan# 166

Delta R.T. -0.04 min

Lab File: VY000424.D

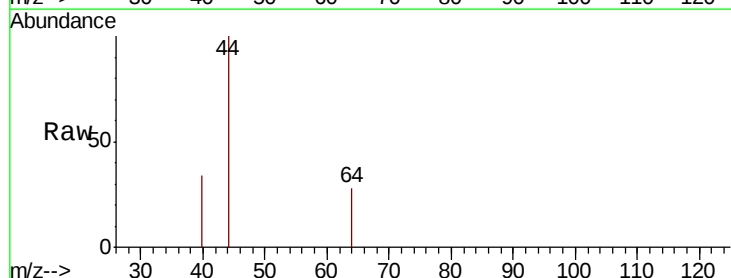
Acq: 25 Oct 2019 13:17

Tgt Ion: 64 Resp: 19

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VY000268.D (-165) (-)

Ion 65.90 (65.60 to 66.60): VY000268.D (-165) (-)

2.75

60

50

40

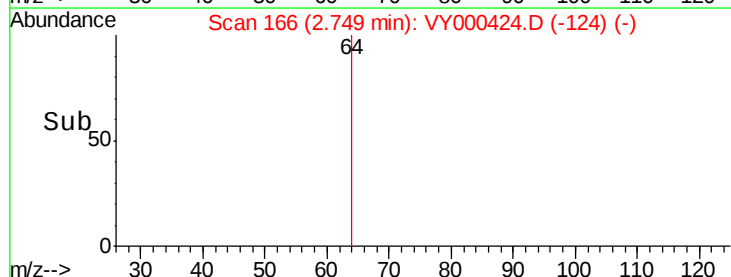
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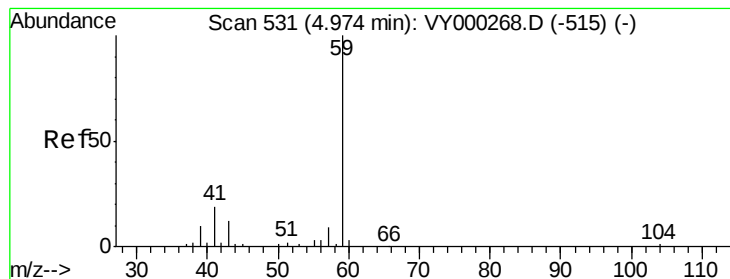
20

10

0

Time--> 2.73 2.74 2.75 2.76 2.77



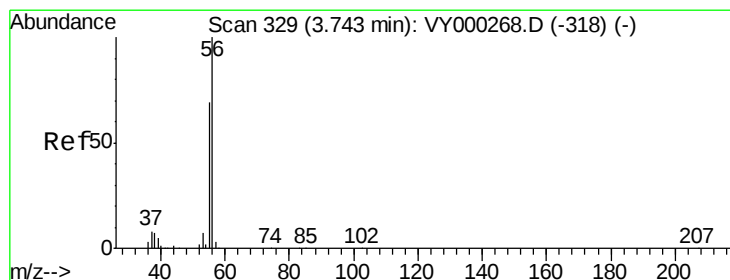
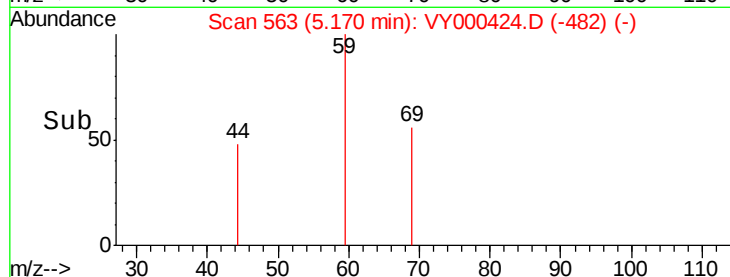
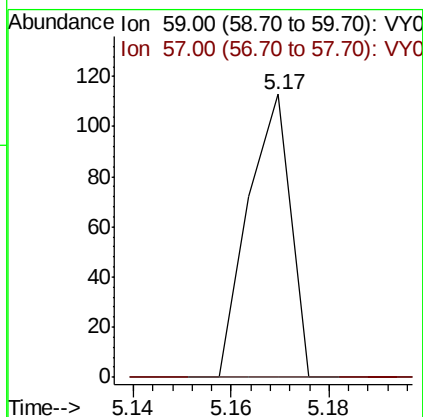
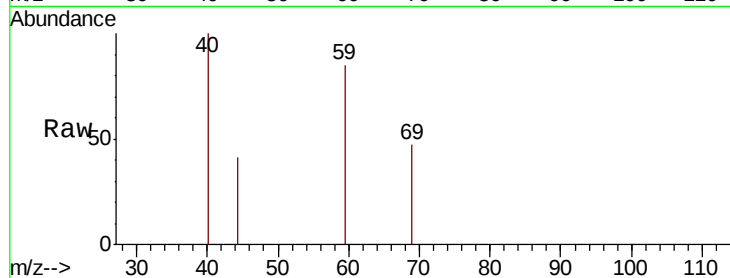


#11

Tert butyl alcohol
 Concen: 789.739 ug/l
 RT: 5.17 min Scan# 563
 Delta R.T. 0.20 min
 Lab File: VY000424.D
 Acq: 25 Oct 2019 13:17

Instrument :
 MSVOA_Y
 ClientSampled :

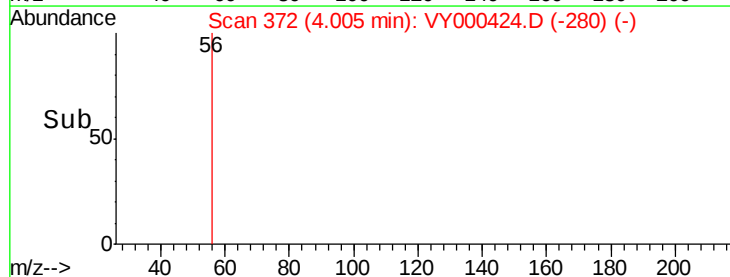
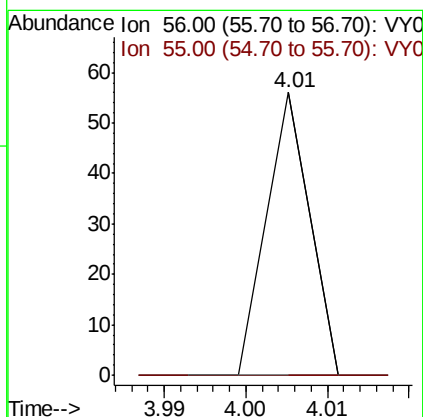
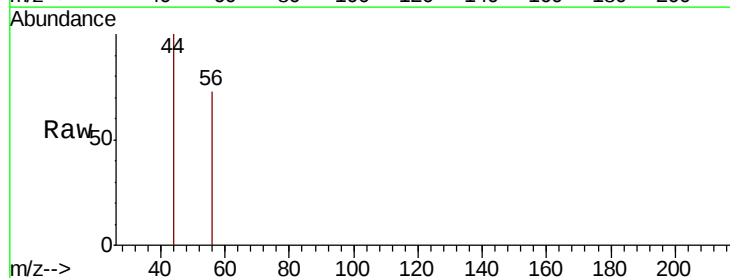
Tot Ion: 59 Resp: 68
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

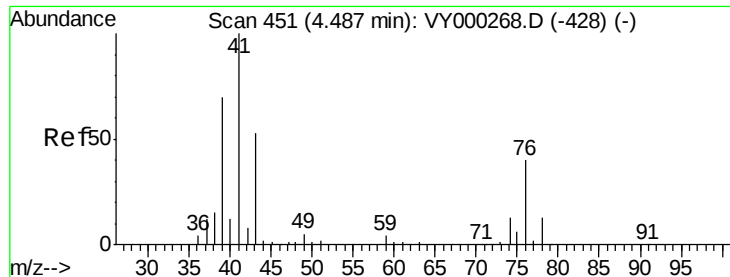


#13

Acrolein
 Concen: 198.121 ug/l
 RT: 4.01 min Scan# 372
 Delta R.T. 0.26 min
 Lab File: VY000424.D
 Acq: 25 Oct 2019 13:17

Tgt Ion: 56 Resp: 20
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.7 83.5#





#14

Allvl chloride

Concen: 19.916 ug/l

RT: 4.29 min Scan# 418

Delta R.T. -0.20 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampled :

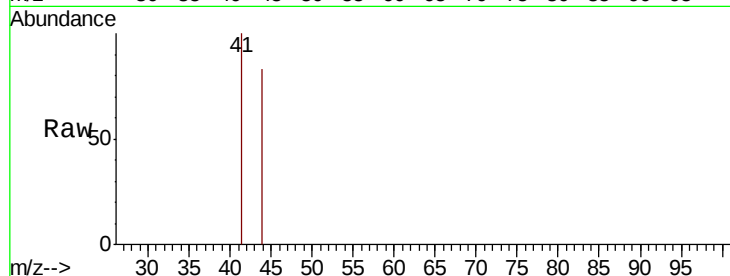
Tot Ion: 41 Resp: 26

Ion Ratio Lower Upper

41 100

39 0.0 54.0 81.0#

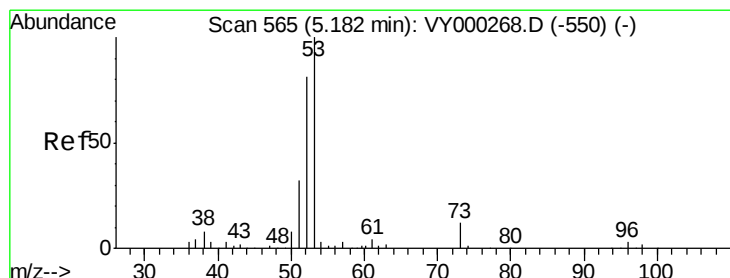
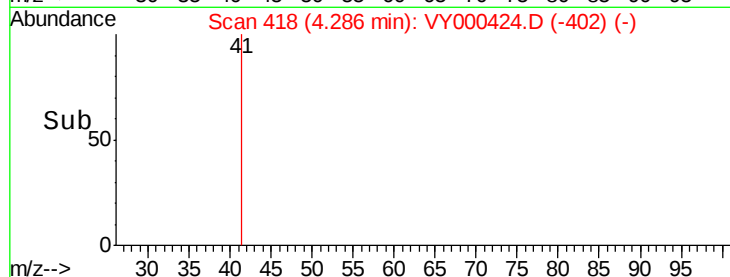
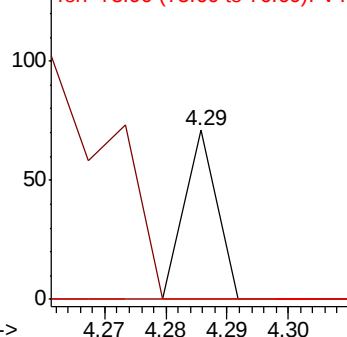
76 0.0 30.7 46.1#



Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0



#15

Acrylonitrile

Concen: 257.518 ug/l

RT: 4.95 min Scan# 527

Delta R.T. -0.23 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

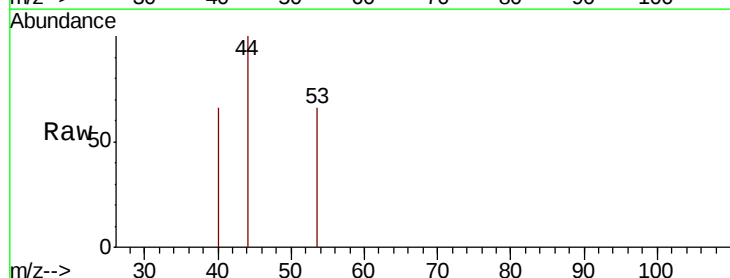
Tgt Ion: 53 Resp: 67

Ion Ratio Lower Upper

53 100

52 0.0 62.9 94.3#

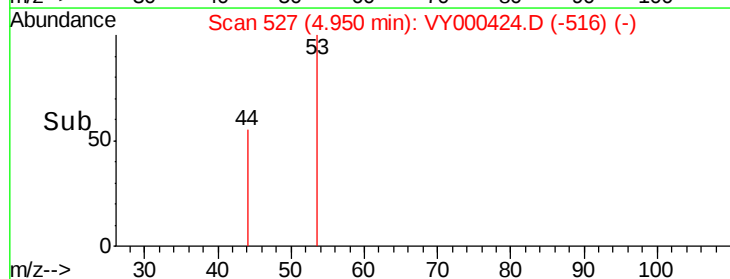
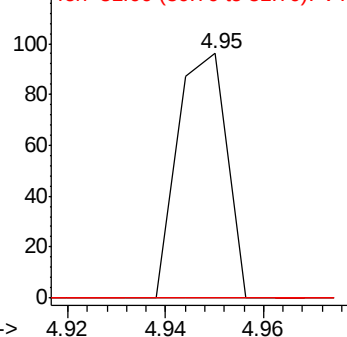
51 0.0 26.9 40.3#

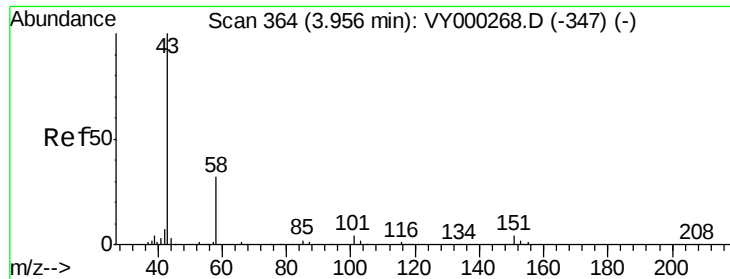


Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0

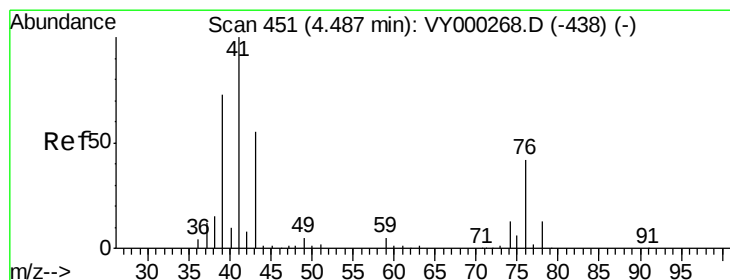
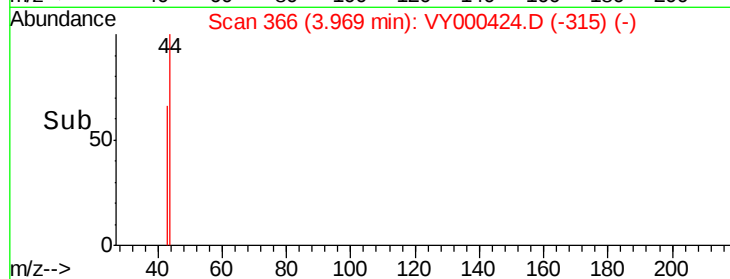
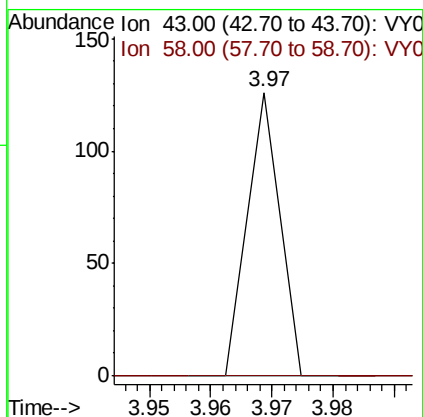
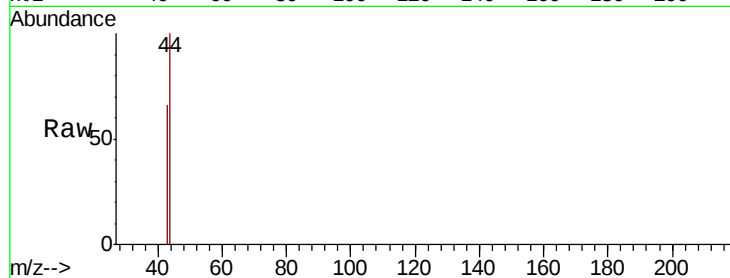




#16
Acetone
Concen: 172.640 ug/l
RT: 3.97 min Scan# 366
Delta R.T. 0.01 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

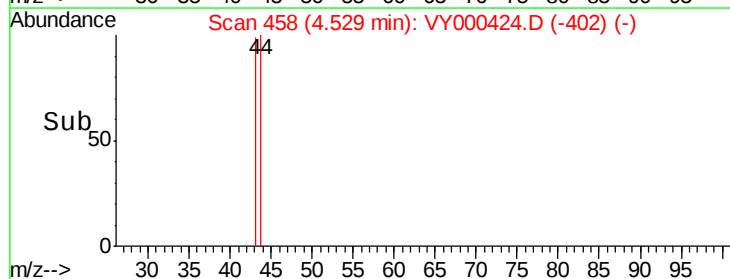
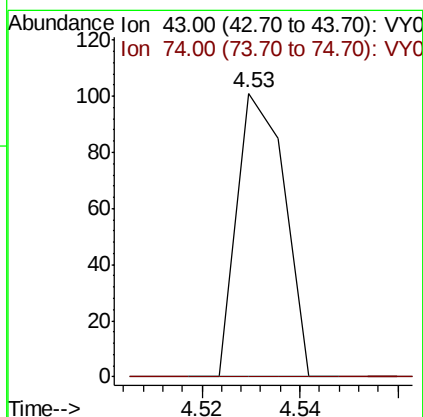
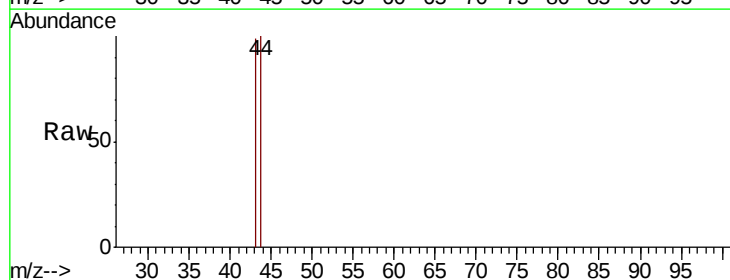
Instrument :
MSVOA_Y
ClientSampled :

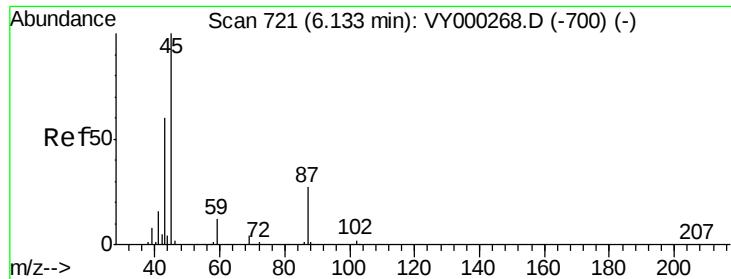
Tot Ion: 43 Resp: 46
Ion Ratio Lower Upper
43 100
58 0.0 25.8 38.6#



#18
Methyl Acetate
Concen: 102.715 ug/l
RT: 4.53 min Scan# 458
Delta R.T. 0.04 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
74 0.0 20.4 30.6#





#22

Diisopropyl ether

Concen: 19.195 ug/l

RT: 6.18 min Scan# 728

Delta R.T. 0.04 min

Lab File: VY000424.D

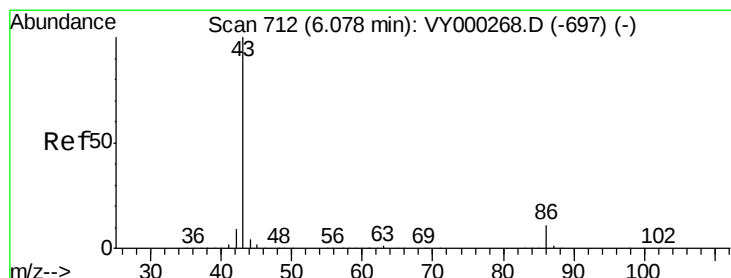
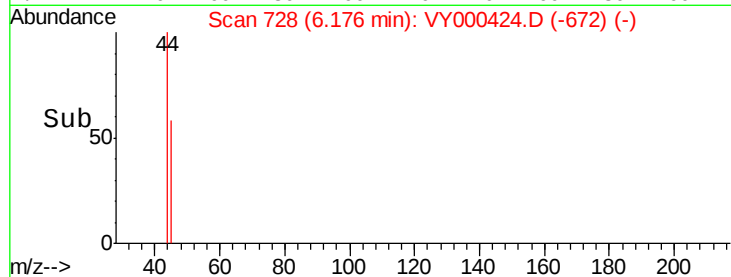
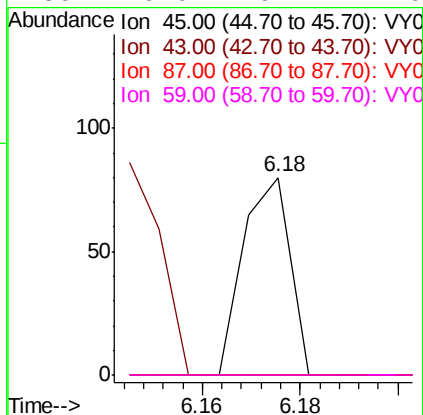
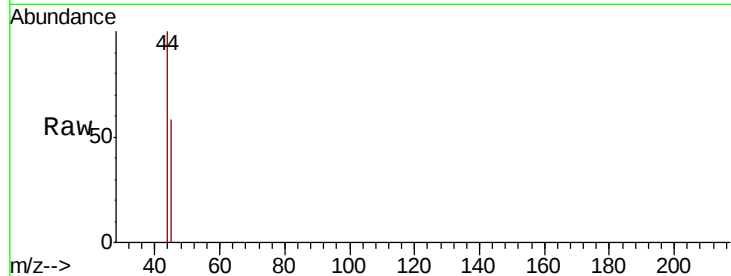
Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

ClientSampled :

Tot Ion:	45	Resp:	53
Ion	Ratio	Lower	Upper
45	100		
43	0.0	48.5	72.7#
87	0.0	21.5	32.3#
59	0.0	9.4	14.0#



#23

Vinyl Acetate

Concen: 29.423 ug/l

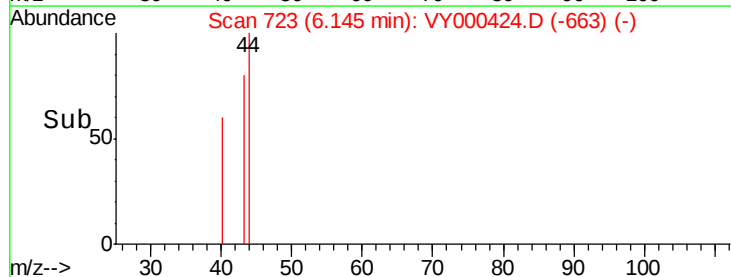
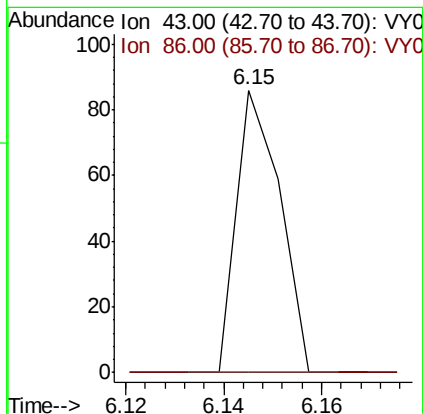
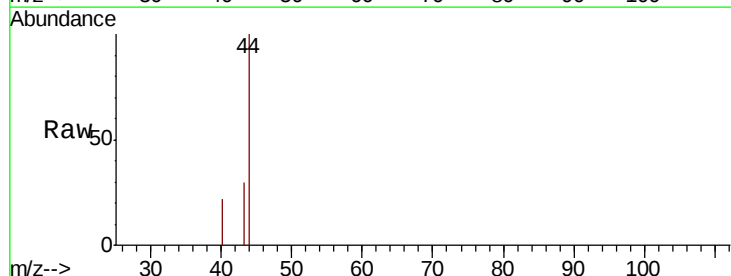
RT: 6.15 min Scan# 723

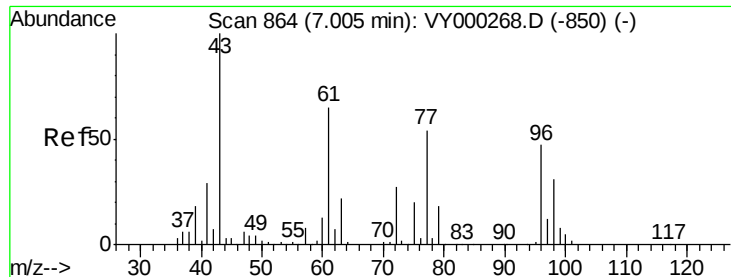
Delta R.T. 0.07 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Tgt Ion:	43	Resp:	53
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.6	13.0#





#25

2-Butanone

Concen: 93.248 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

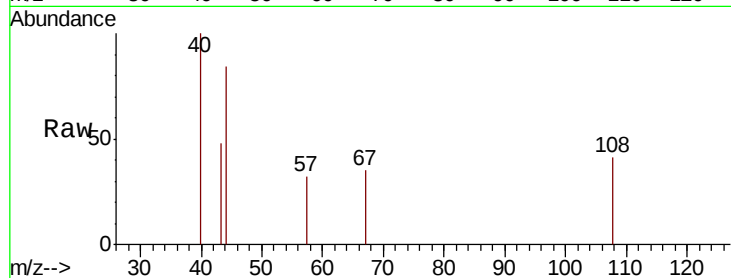
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion: 43 Resp: 35

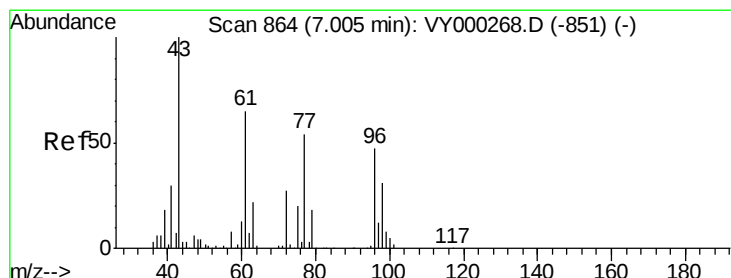
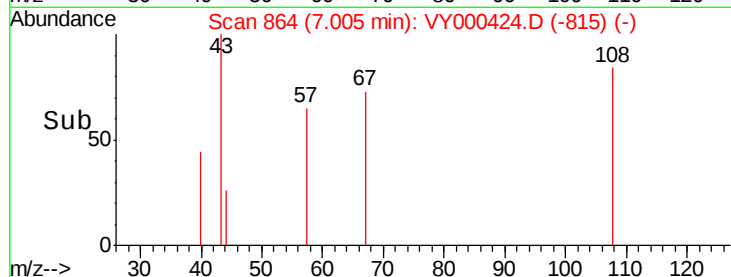
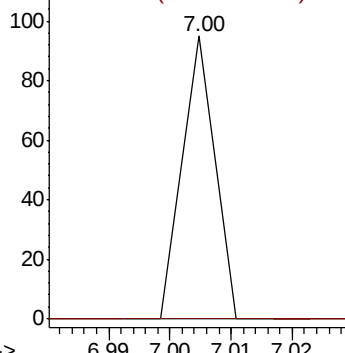
Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#



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



#27

cis-1,2-Dichloroethene

Concen: 41.922 ug/l

RT: 6.98 min Scan# 860

Delta R.T. -0.02 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

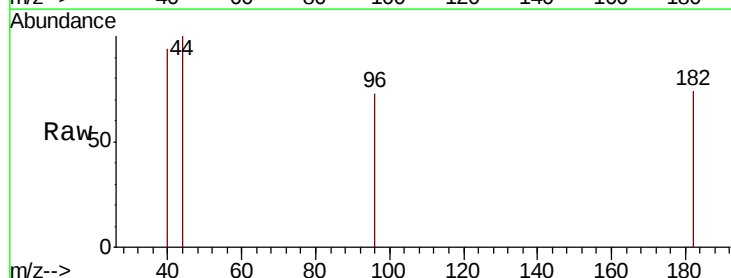
Tgt Ion: 96 Resp: 41

Ion Ratio Lower Upper

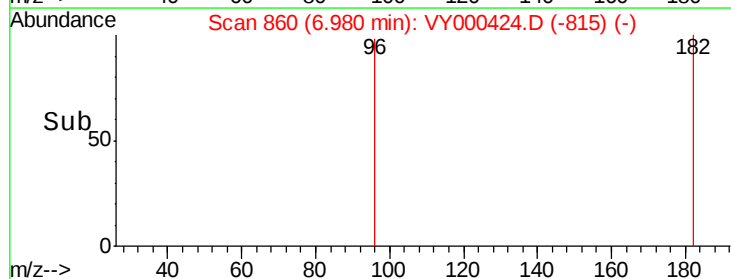
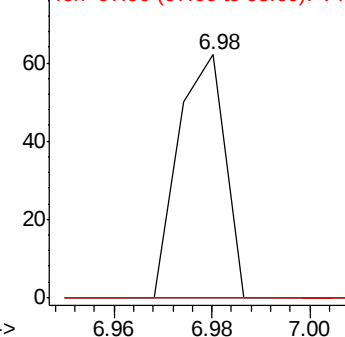
96 100

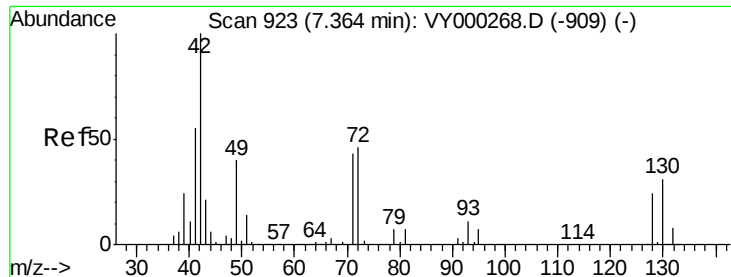
61 0.0 0.0 289.8

98 0.0 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0

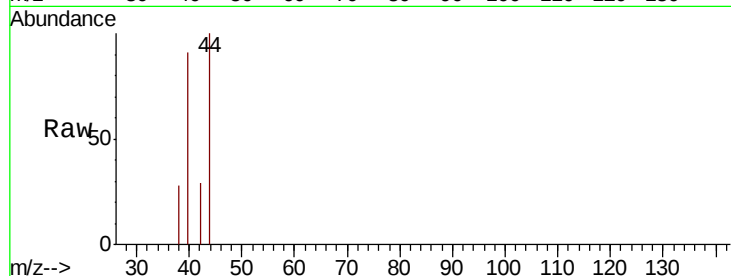




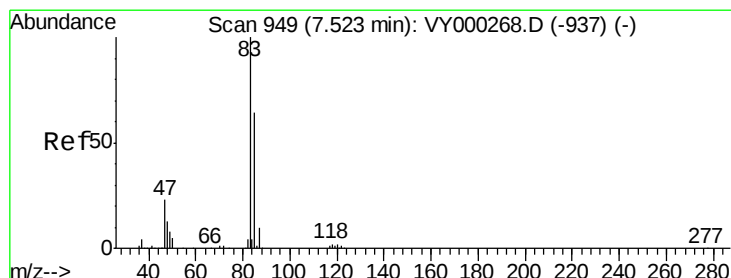
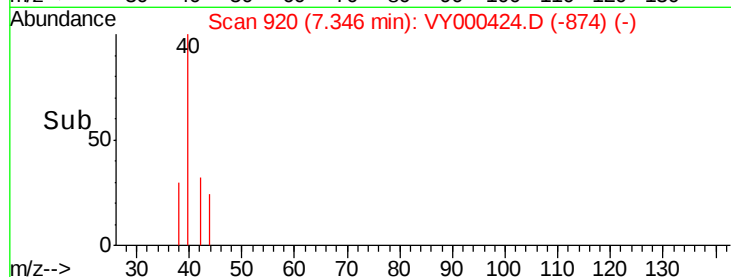
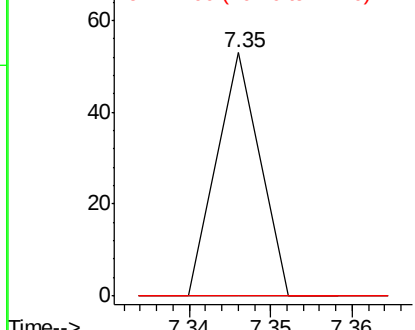
#29
Tetrahydrofuran
Concen: 83.526 ug/l
RT: 7.35 min Scan# 920
Delta R.T. -0.02 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.5	51.7#
71	0.0	32.7	49.1#

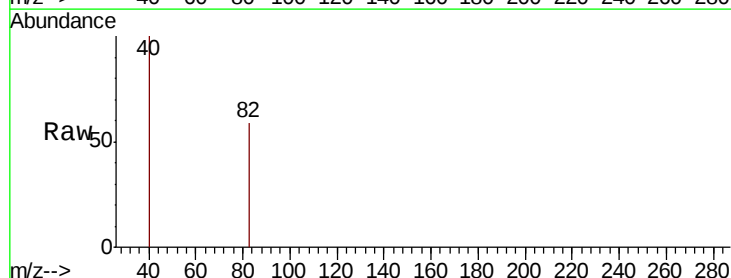


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

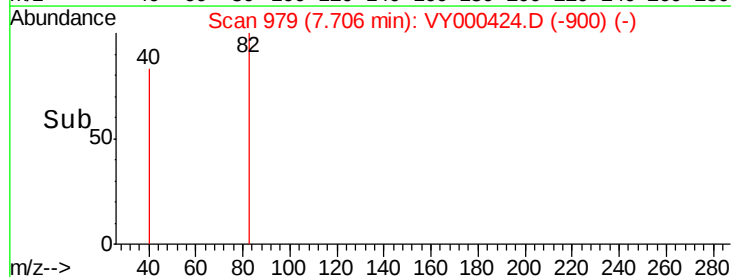
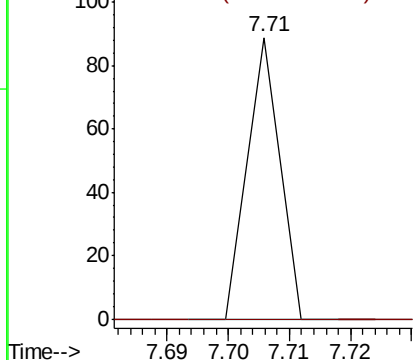


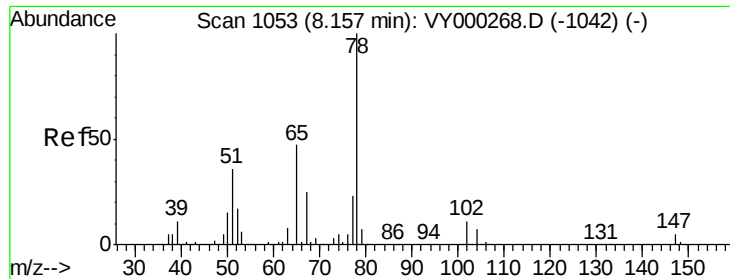
#30
Chloroform
Concen: 21.742 ug/l
RT: 7.71 min Scan# 979
Delta R.T. 0.18 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.4	77.2#



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0





#33

1,2-Dichloroethane-d4

Concen: 25.523 ug/l

RT: 8.34 min Scan# 1083

Delta R.T. 0.18 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

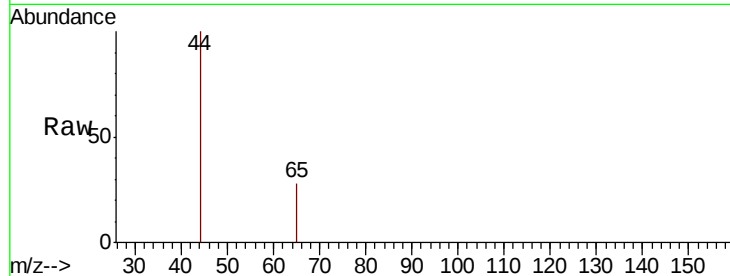
ClientSampleId :

Tot Ion: 65 Resp: 21

Ion Ratio Lower Upper

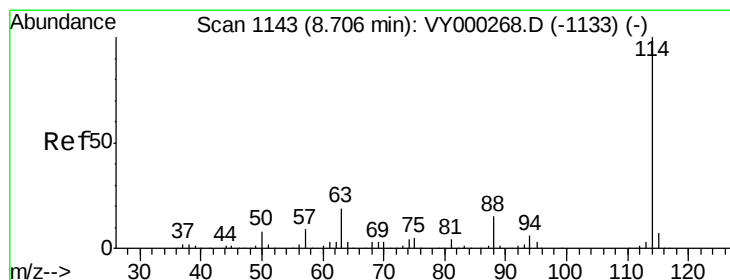
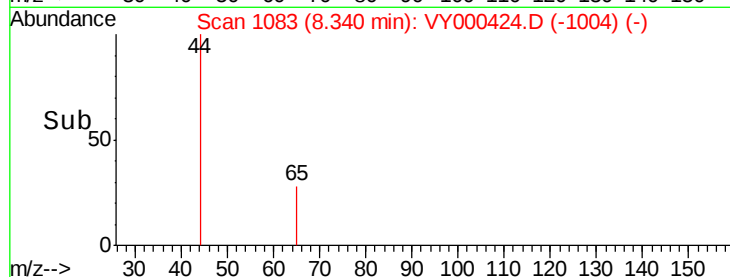
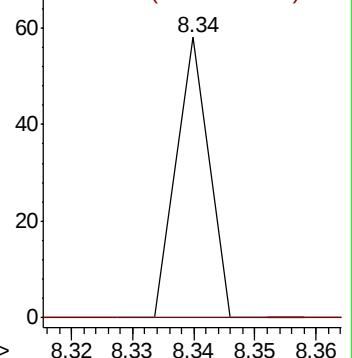
65 100

67 0.0 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

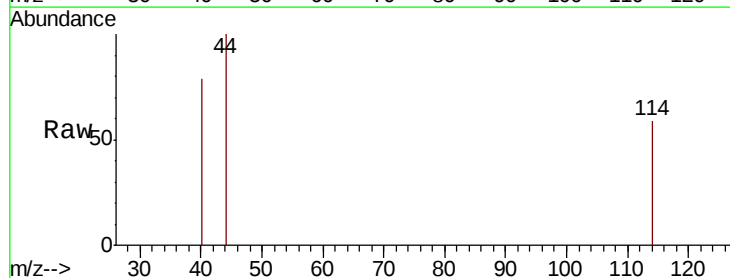
Tgt Ion: 114 Resp: 65

Ion Ratio Lower Upper

114 100

63 0.0 0.0 37.2

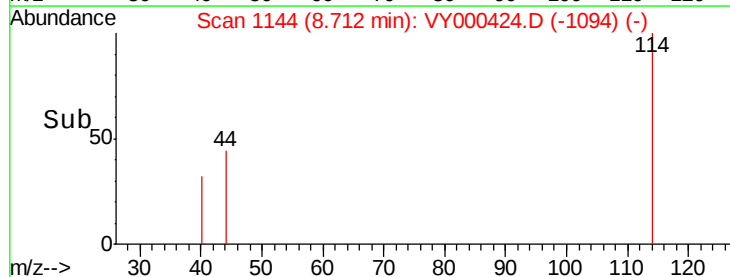
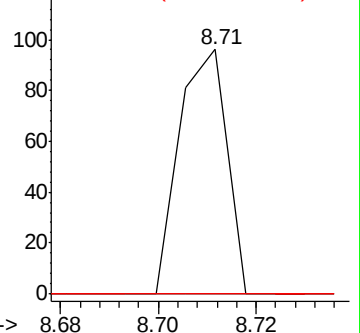
88 0.0 0.0 30.2

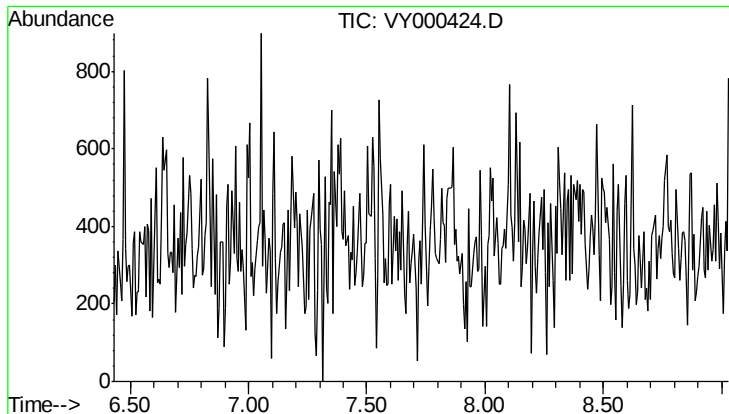


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

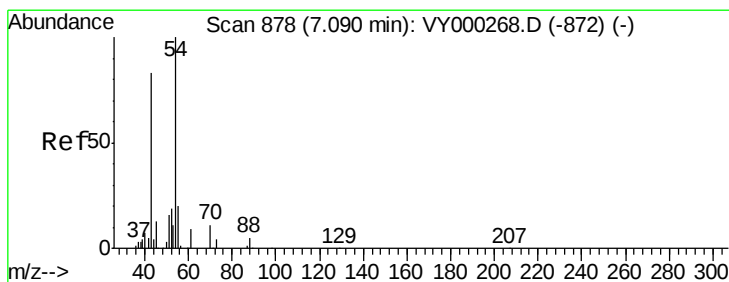
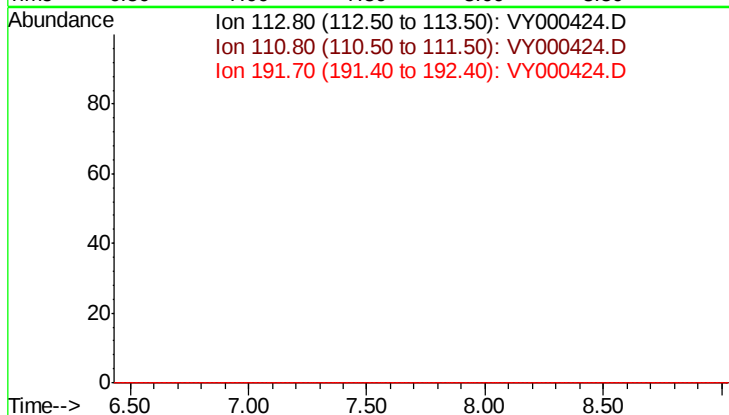




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.73 min
 Lab File: VY000424.D
 Acq: 25 Oct 2019 13:17

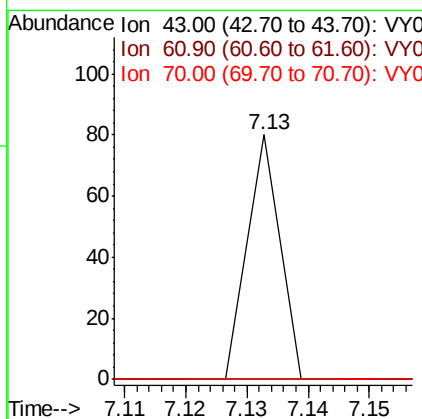
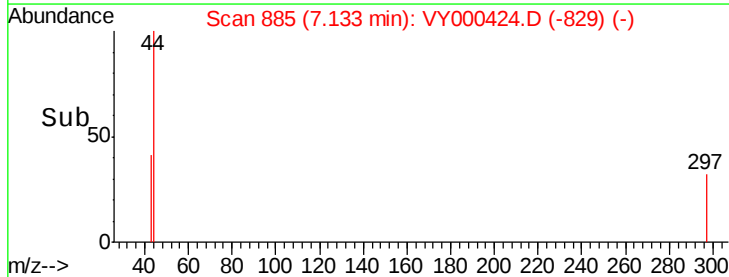
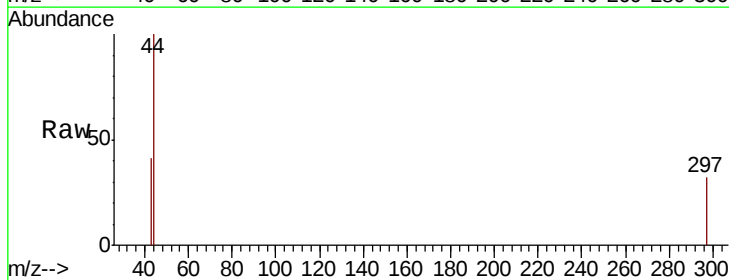
Instrument :
 MSVOA_Y
 ClientSampleId :

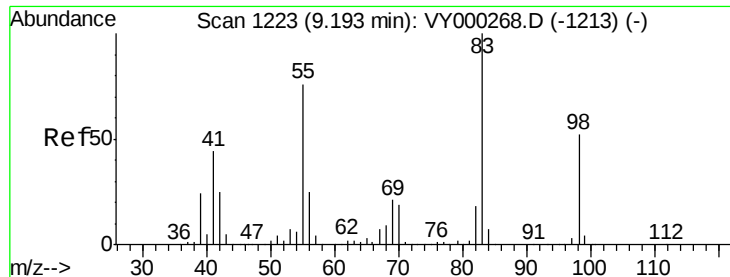
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 102.0
 192 19.1



#37
 Ethyl Acetate
 Concen: 76.960 ug/l
 RT: 7.13 min Scan# 885
 Delta R.T. 0.04 min
 Lab File: VY000424.D
 Acq: 25 Oct 2019 13:17

Tgt Ion: 43 Resp: 29
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.1 18.1#
 70 0.0 8.7 13.1#

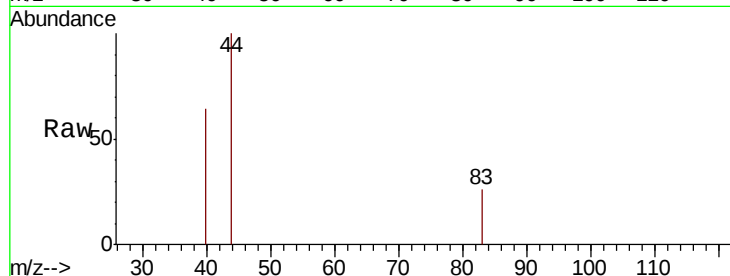




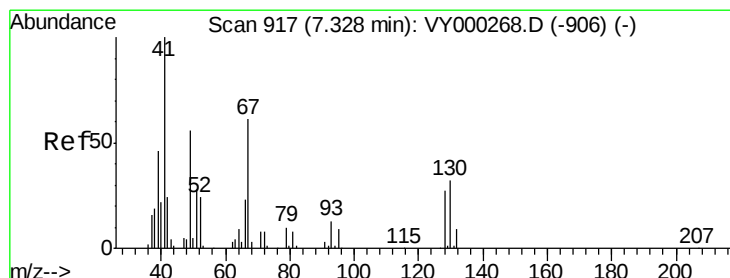
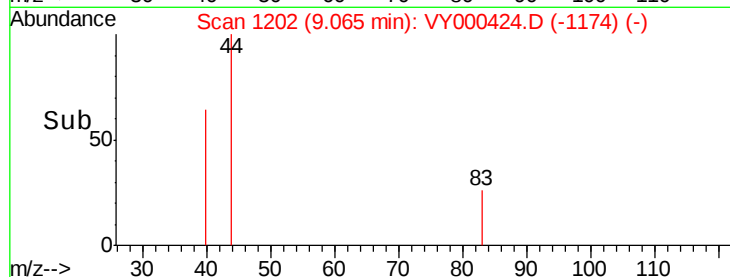
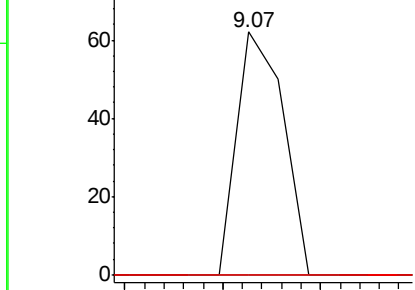
#39
Methylcyclohexane
Concen: 49.225 ug/l
RT: 9.07 min Scan# 1202
Delta R.T. -0.13 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.9	91.3#
98	0.0	41.8	62.6#

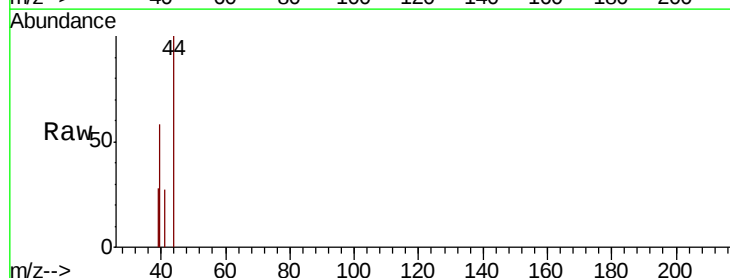


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

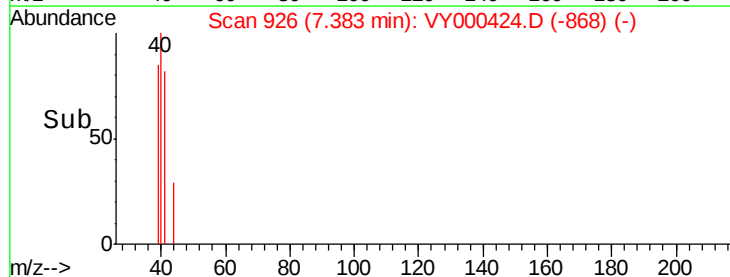
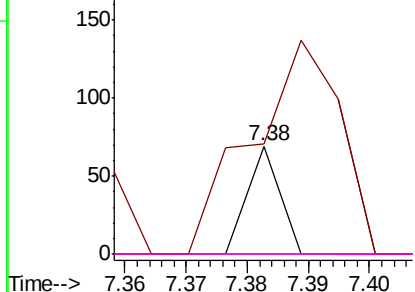


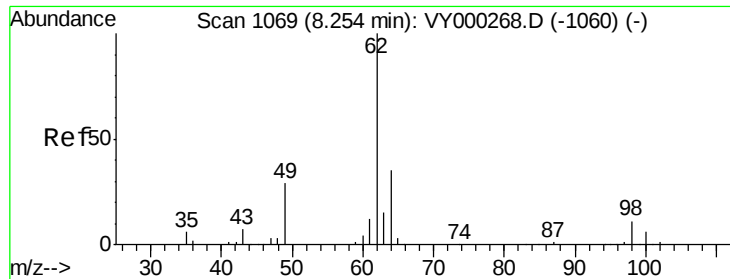
#41
Methacrylonitrile
Concen: 139.379 ug/l
RT: 7.38 min Scan# 926
Delta R.T. 0.05 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
41	100		
39	548.0	110.2	165.2#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0





#42

1,2-Dichloroethane

Concen: 64.720 ug/l

RT: 8.38 min Scan# 1089

Delta R.T. 0.12 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

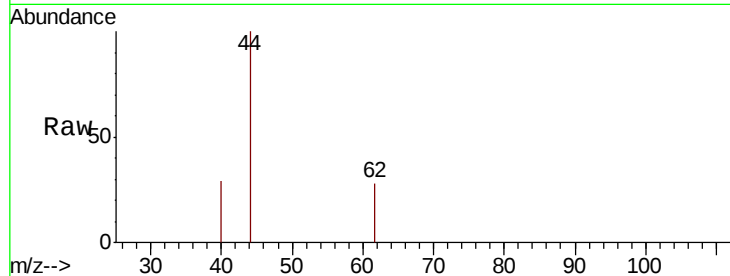
ClientSampled :

Tot Ion: 62 Resp: 34

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

8.38

100

80

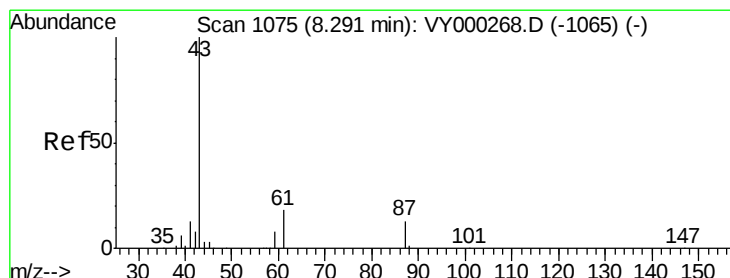
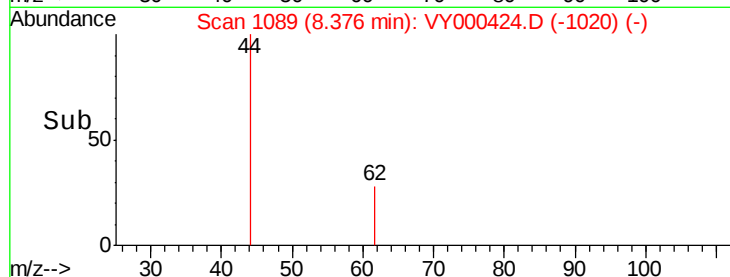
60

40

20

0

Time-->



#43

Isopropyl Acetate

Concen: 69.784 ug/l

RT: 8.24 min Scan# 1066

Delta R.T. -0.05 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

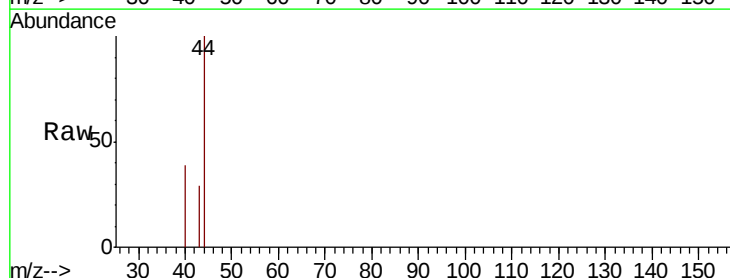
Tgt Ion: 43 Resp: 50

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

87 0.0 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 87.00 (86.70 to 87.70): VY0

8.24

100

80

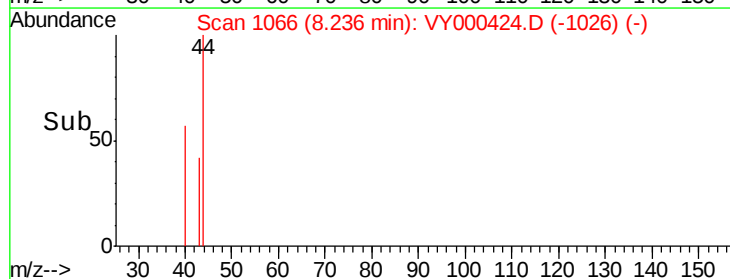
60

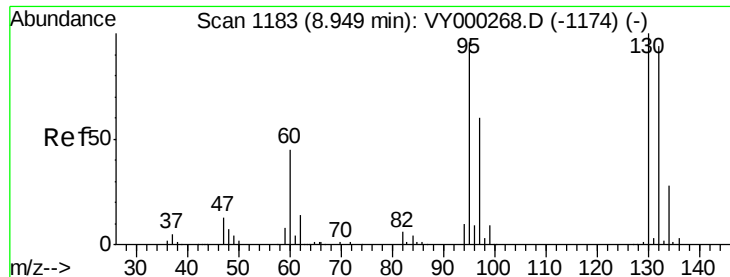
40

20

0

Time-->





#44

Trichloroethene

Concen: 73.640 ug/l

RT: 8.92 min Scan# 1178

Delta R.T. -0.03 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

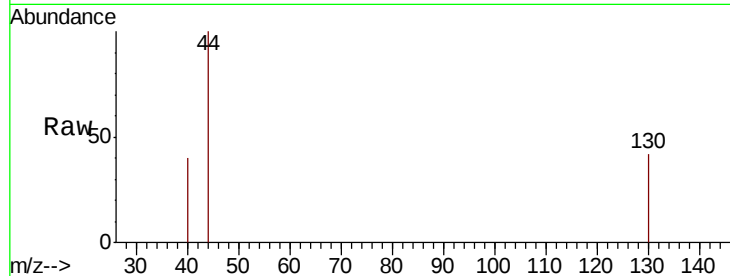
ClientSampleId :

Tot Ion:130 Resp: 38

Ion Ratio Lower Upper

130 100

95 0.0 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): VY000424.D (-1174) (-)

Ion 94.90 (94.60 to 95.60): VY000424.D (-1174) (-)

8.92

100

80

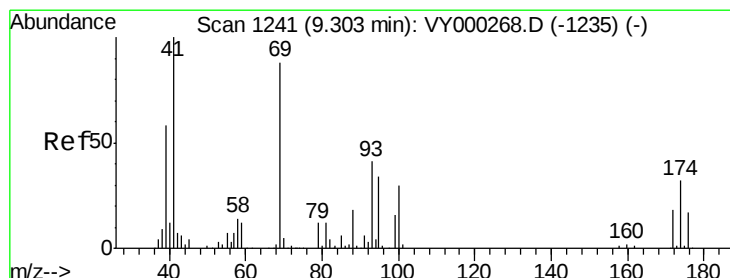
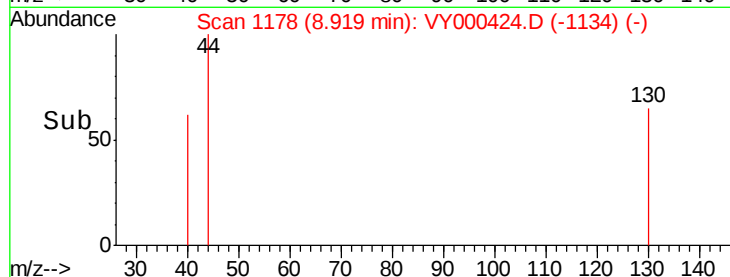
60

40

20

0

Time-->



#48

Methyl methacrylate

Concen: 117.833 ug/l

RT: 9.32 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

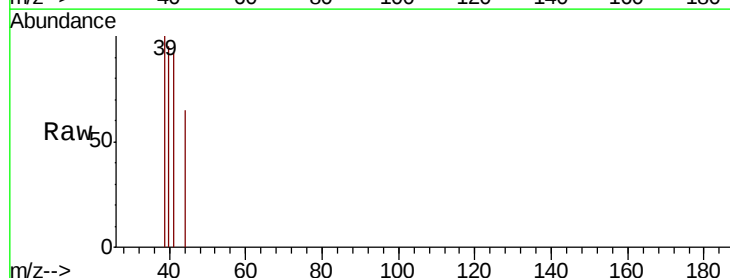
Tgt Ion: 41 Resp: 37

Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

39 216.2 47.7 71.5#



Abundance Ion 41.00 (40.70 to 41.70): VY000424.D (-1192) (-)

Ion 69.00 (68.70 to 69.70): VY000424.D (-1192) (-)

Ion 39.00 (38.70 to 39.70): VY000424.D (-1192) (-)

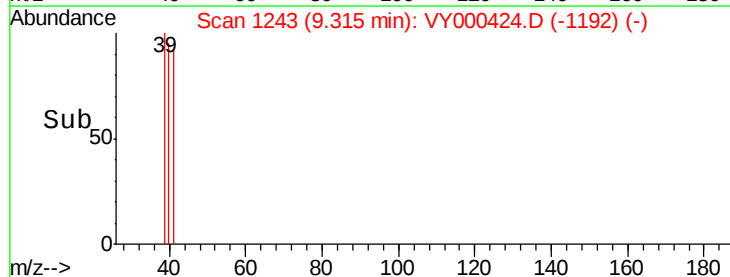
9.32

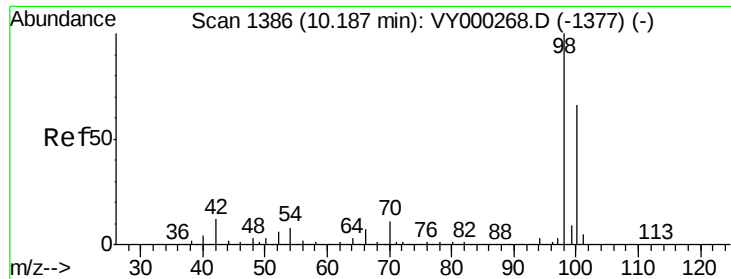
100

50

0

Time-->





#50

Toluene-d8

Concen: 72.269 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

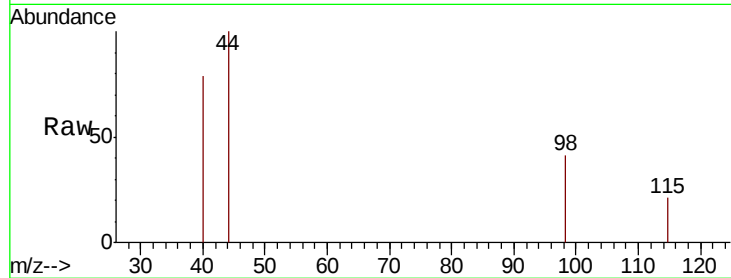
ClientSampled :

Tot Ion: 98 Resp: 109

Ion Ratio Lower Upper

98 100

100 19.3 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.19

100

80

60

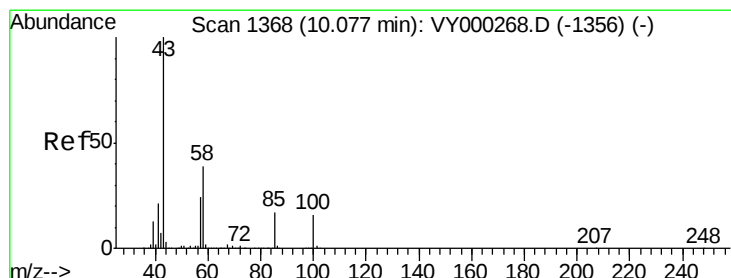
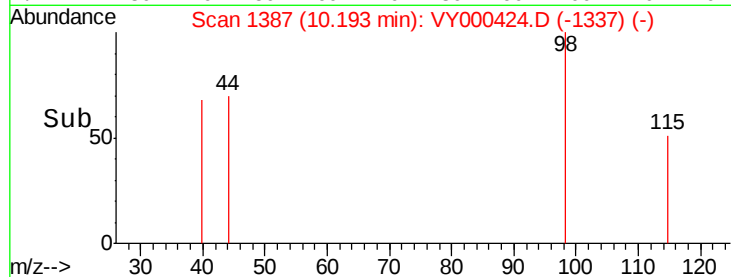
40

20

0

10.16 10.18 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 200.245 ug/l

RT: 10.03 min Scan# 1361

Delta R.T. -0.04 min

Lab File: VY000424.D

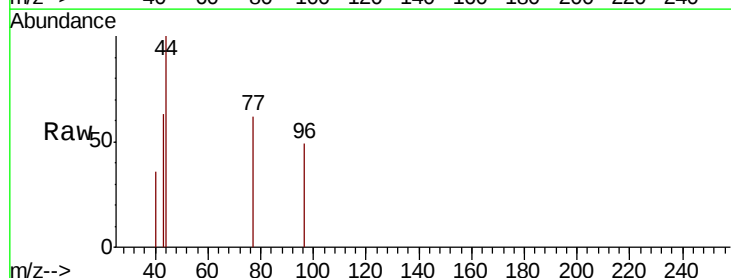
Acq: 25 Oct 2019 13:17

Tgt Ion: 43 Resp: 74

Ion Ratio Lower Upper

43 100

58 0.0 31.0 46.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

150

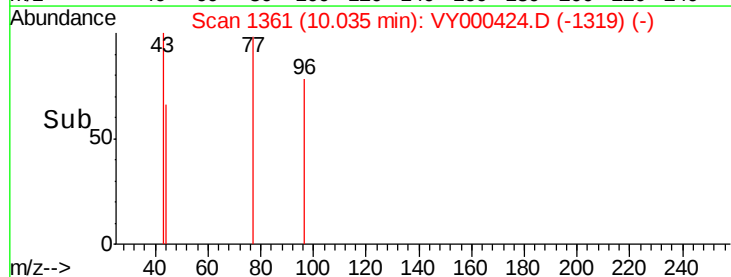
100

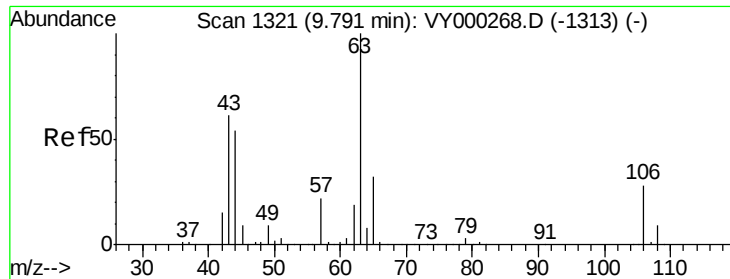
50

0

10.02 10.04

Time-->

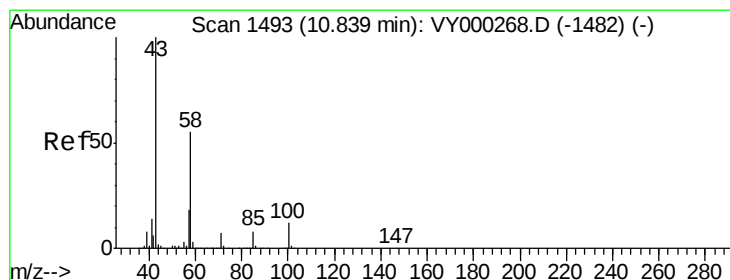
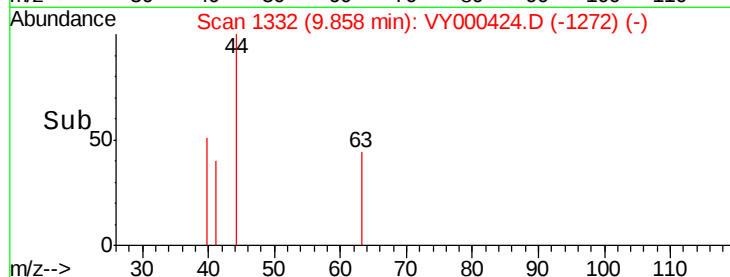
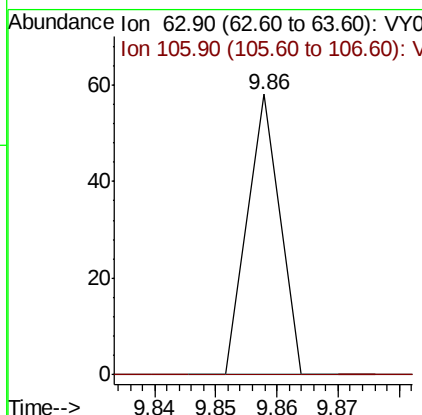
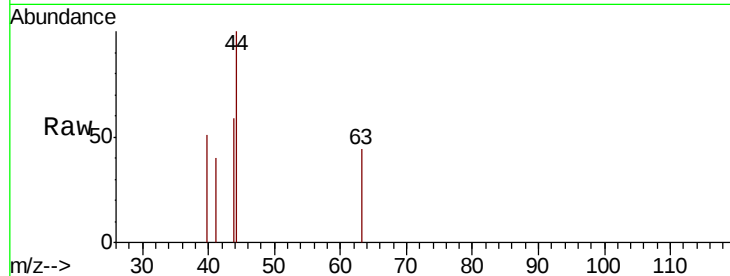




#58
2-Chloroethyl Vinyl ether
Concen: 100.693 ug/l
RT: 9.86 min Scan# 1332
Delta R.T. 0.07 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

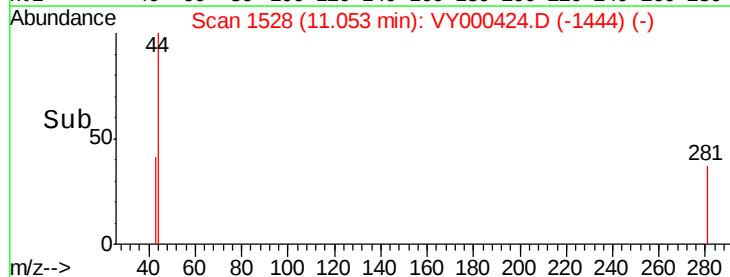
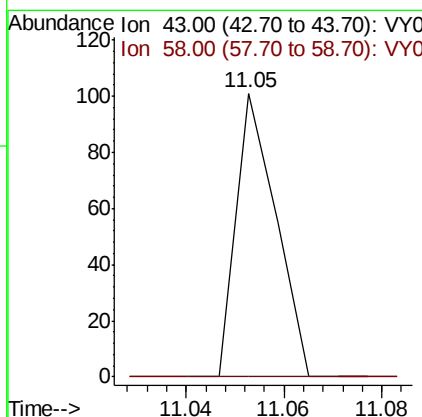
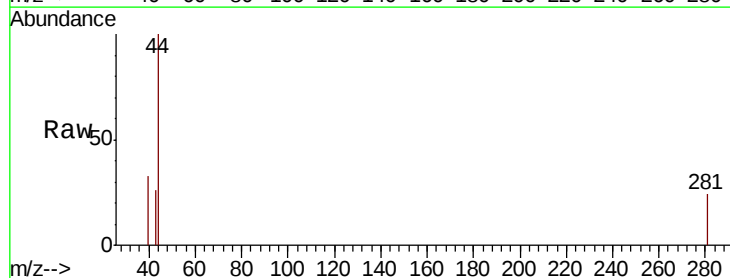
Instrument :
MSVOA_Y
ClientSampleId :

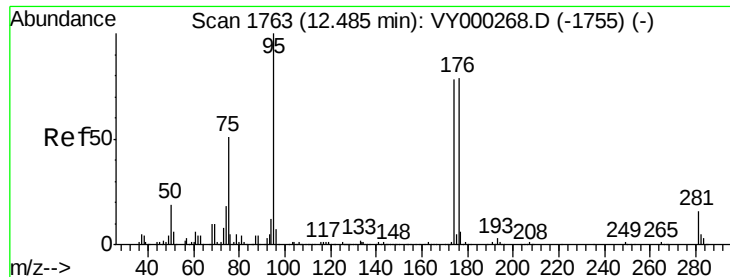
Tot Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 0.0 23.0 34.4#



#59
2-Hexanone
Concen: 219.746 ug/l
RT: 11.05 min Scan# 1528
Delta R.T. 0.21 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 27.7 83.1#

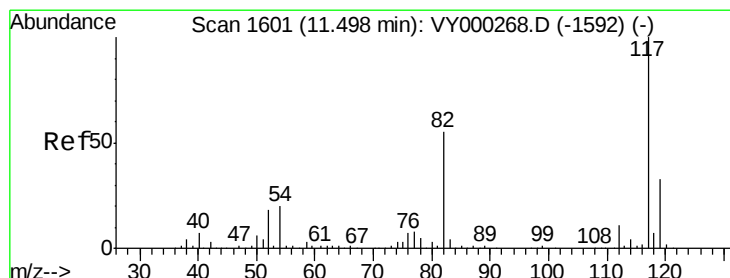
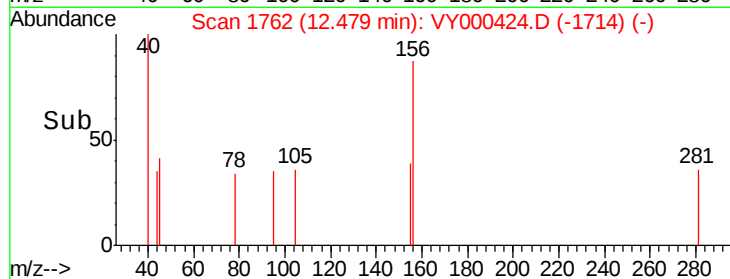
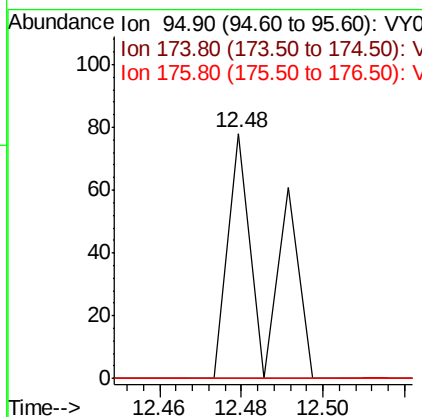
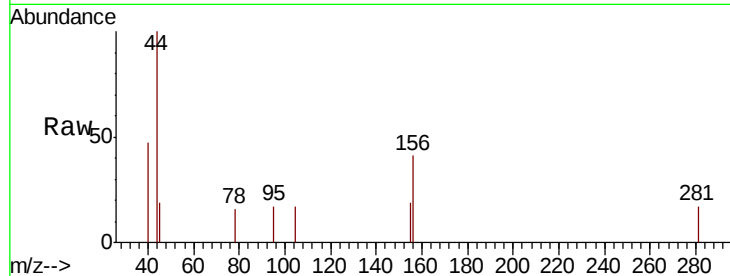




#62
4-Bromofluorobenzene
Concen: 89.005 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

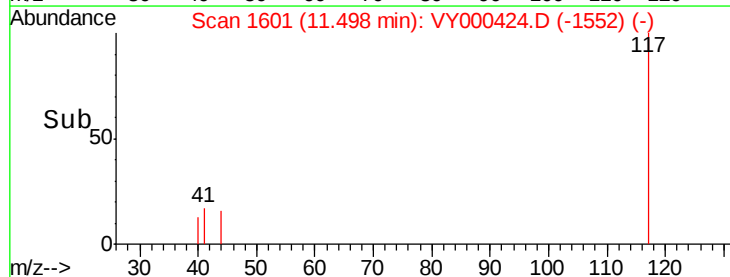
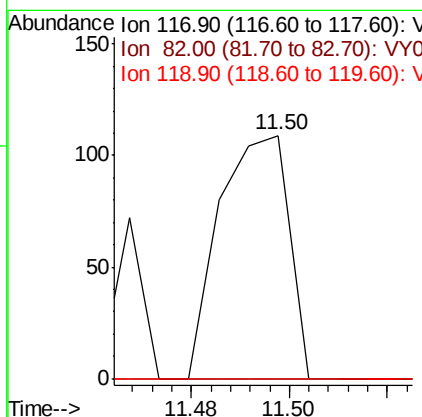
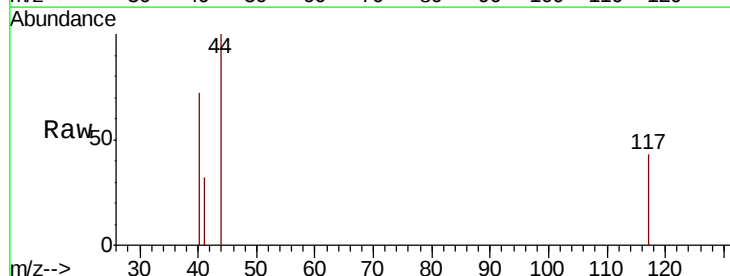
Instrument :
MSVOA_Y
ClientSampled :

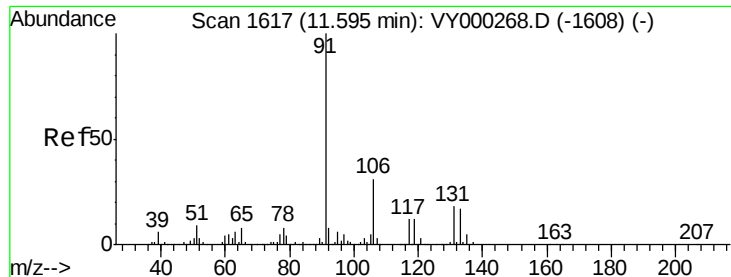
Tot Ion	Ratio	Lower	Upper
95	100		
174	0.0	0.0	159.6
176	0.0	0.0	153.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VY000424.D
Acq: 25 Oct 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
82	0.0	43.7	65.5#
119	0.0	26.6	39.8#





#67

Ethyl Benzene

Concen: 5.733 ug/l

RT: 11.71 min Scan# 1635

Delta R.T. 0.11 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Instrument :

MSVOA_Y

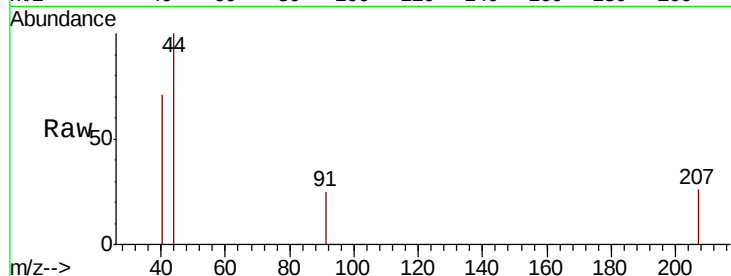
ClientSampleId :

Tot Ion: 91 Resp: 24

Ion Ratio Lower Upper

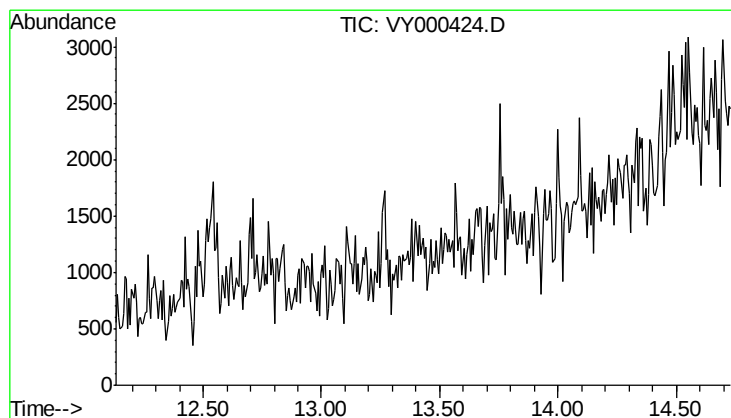
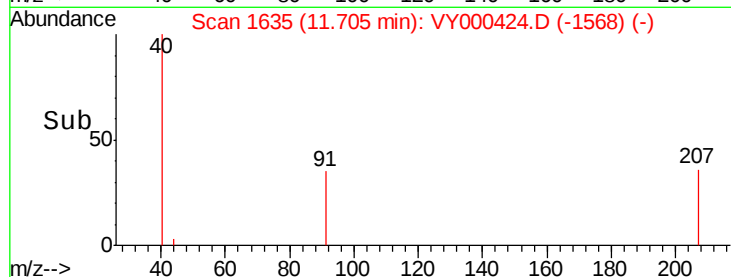
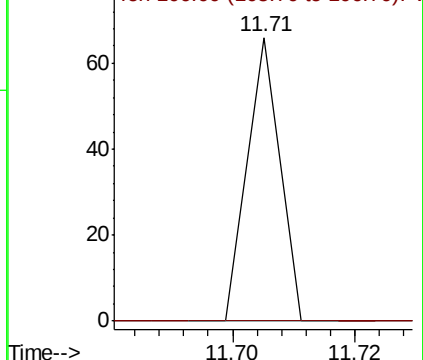
91 100

106 0.0 25.0 37.6#



Abundance Ion 91.00 (90.70 to 91.70): VY000424.D

Ion 106.00 (105.70 to 106.70): VY000424.D



#72

1,4-Dichlorobenzene-d4

Concen: 0.000 ug/l

Expected RT: 13.43 min

Lab File: VY000424.D

Acq: 25 Oct 2019 13:17

Tgt Ion: 152

Sig Exp Ratio

152 100

115 58.7

150 174.2

