

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\
 Data File : VY002568.D
 Acq On : 05 May 2020 02:43
 Operator : SY/MD
 Sample : L2479-02
 Misc : 4.80G/5ML/MSVOA Y/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 FK-0D015-03-014

Quant Time: May 05 07:19:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	334043	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.71	114	543204	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	501514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.44	152	253699	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.17	65	165435	58.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.80%	
35) Dibromofluoromethane	7.75	113	117951	37.97	ug/l	0.01
Spiked Amount	50.000		Recovery	=	75.94%	
50) Toluene-d8	10.20	98	643344	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
62) 4-Bromofluorobenzene	12.50	95	217936	52.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.88%	

Target Compounds

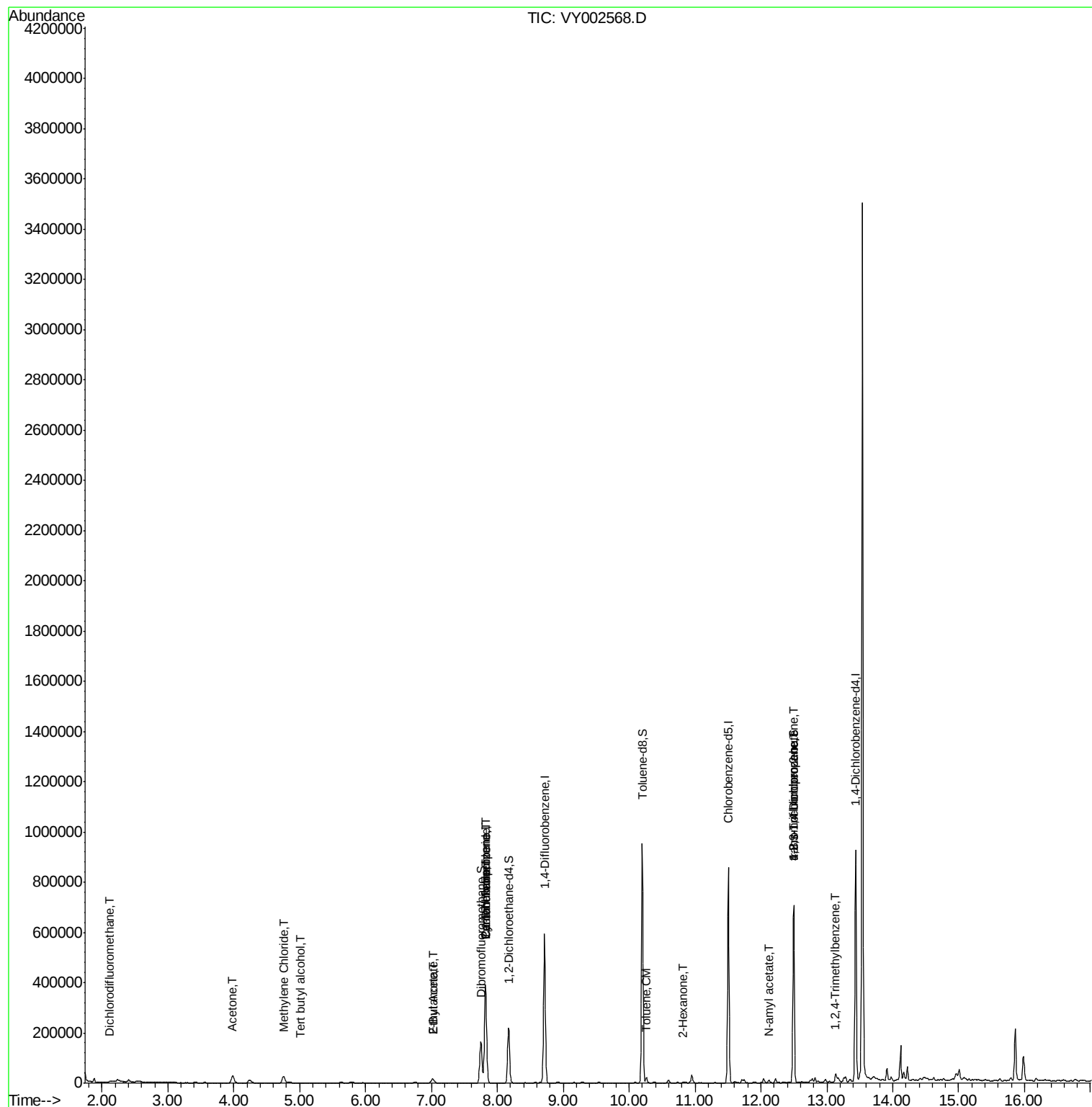
						Qvalue
2) Dichlorodifluoromethane	2.13	85	19	1.791	ug/l #	43
11) Tert butyl alcohol	5.00	59	1596	5.523	ug/l #	79
16) Acetone	3.98	43	52242	90.126	ug/l	97
20) Methylene Chloride	4.76	84	20335	6.273	ug/l	98
25) 2-Butanone	7.03	43	6419	6.765	ug/l	94
31) Cyclohexane	7.82	56	6616	1.311	ug/l #	12
36) 1,1-Dichloropropene	7.82	75	21092	4.632	ug/l #	50
37) Ethyl Acetate	7.03	43	6419	2.743	ug/l #	79
38) Carbon Tetrachloride	7.82	117	30331	6.101	ug/l #	15
52) Toluene	10.26	92	9229	1.092	ug/l	100
59) 2-Hexanone	10.82	43	2988	1.920	ug/l #	22
74) N-amyl acetate	12.12	43	5758	1.456	ug/l #	44
76) 1,2,3-Trichloropropane	12.49	75	105744	46.903	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.49	75	105744	94.049	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.13	105	16022	1.180	ug/l	90

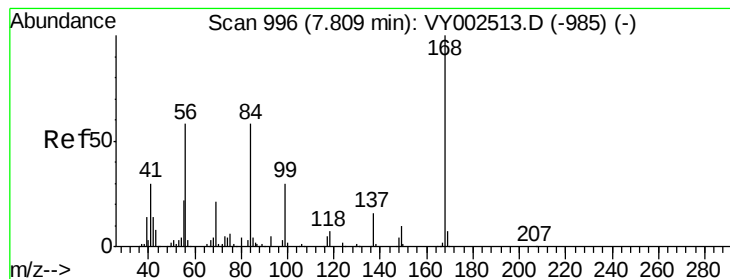
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

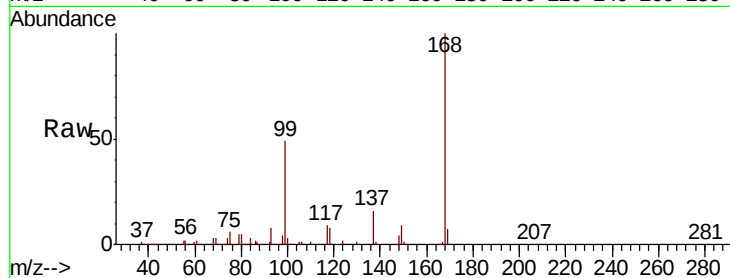
FK-0D015-03-014

Tot Ion:168 Resp: 334043

Ion Ratio Lower Upper

168 100

99 48.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.82

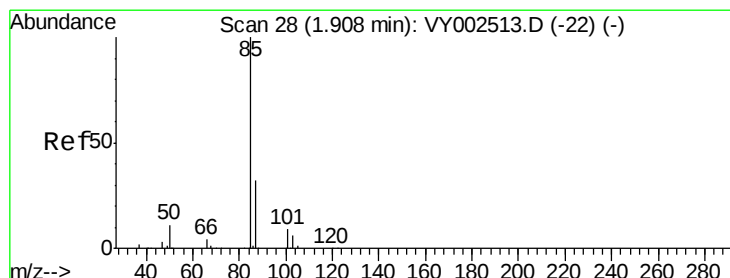
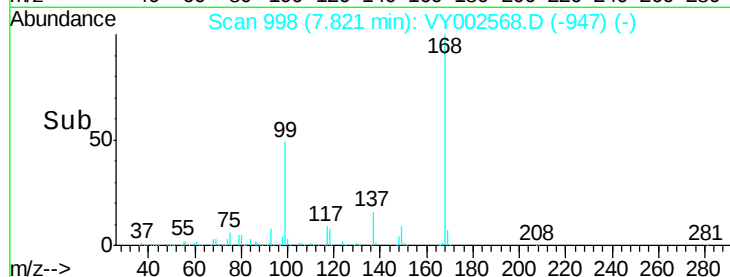
150000

100000

50000

0

Time--> 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 1.791 ug/l

RT: 2.13 min Scan# 64

Delta R.T. 0.22 min

Lab File: VY002568.D

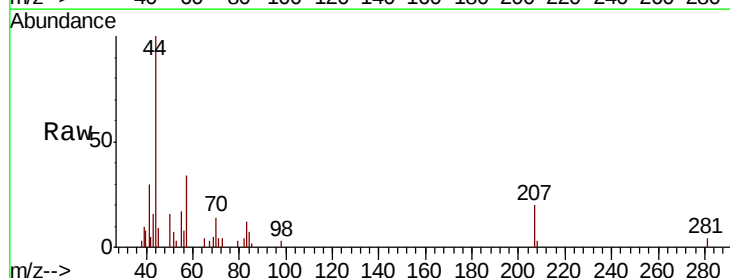
Acq: 05 May 2020 02:43

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

2.13

60

50

40

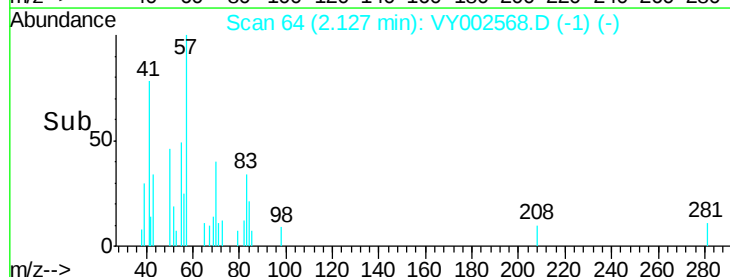
30

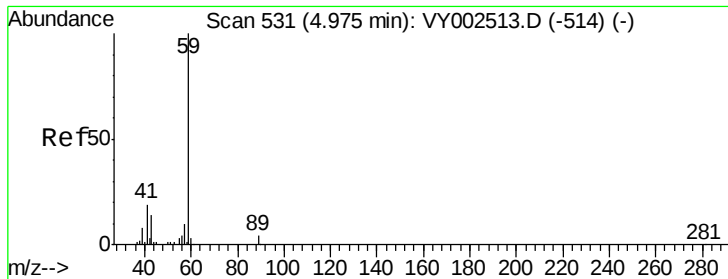
20

10

0

Time--> 2.11 2.12 2.13 2.14



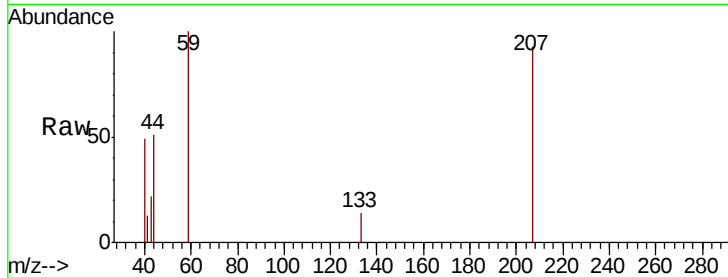


#11

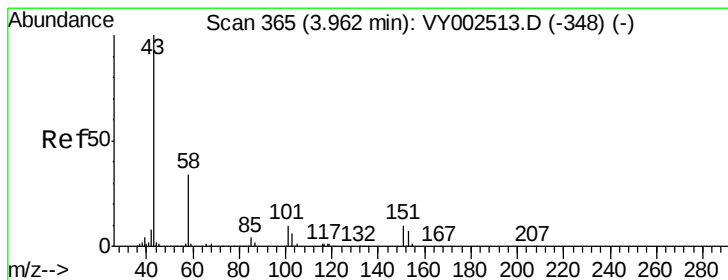
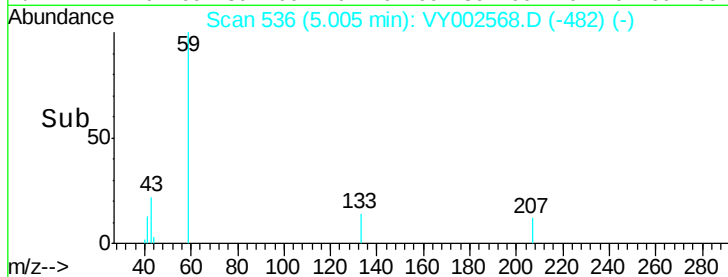
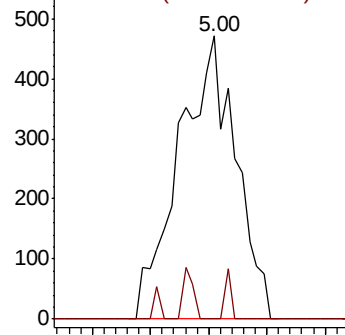
Tert butyl alcohol
 Concen: 5.523 ug/l
 RT: 5.00 min Scan# 536
 Delta R.T. 0.03 min
 Lab File: VY002568.D
 Acq: 05 May 2020 02:43

Instrument :
 MSVOA_Y
 ClientSampleId :
 FK-0D015-03-014

Tot Ion: 59 Resp: 1596
 Ion Ratio Lower Upper
 59 100
 57 1.9 7.8 11.6#



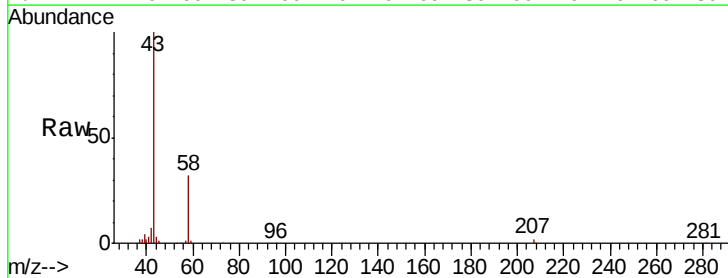
Abundance Ion 59.00 (58.70 to 59.70): VY0
 Ion 57.00 (56.70 to 57.70): VY0



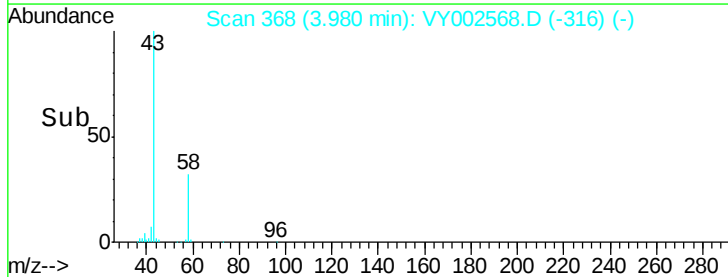
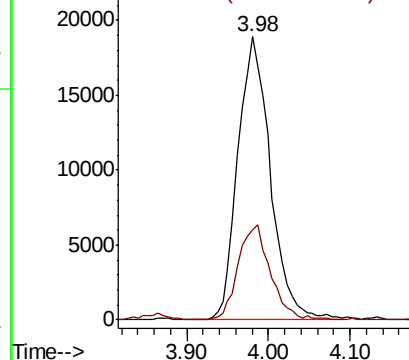
#16

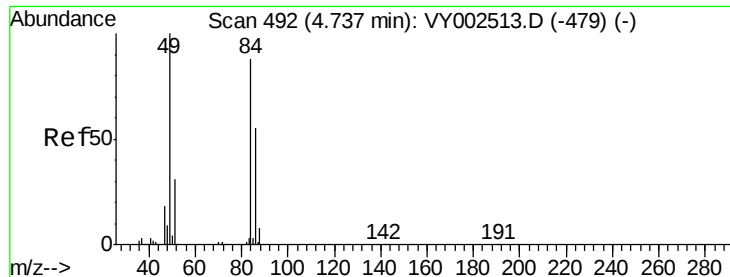
Acetone
 Concen: 90.126 ug/l
 RT: 3.98 min Scan# 368
 Delta R.T. 0.02 min
 Lab File: VY002568.D
 Acq: 05 May 2020 02:43

Tgt Ion: 43 Resp: 52242
 Ion Ratio Lower Upper
 43 100
 58 31.9 26.9 40.3



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

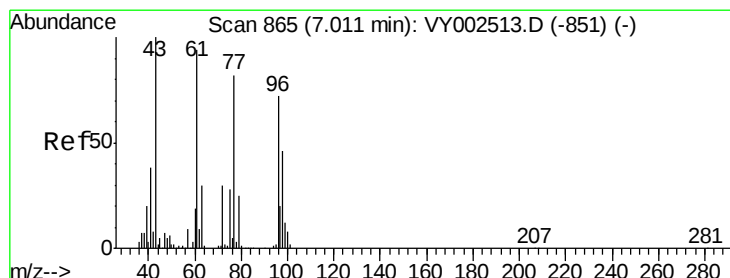
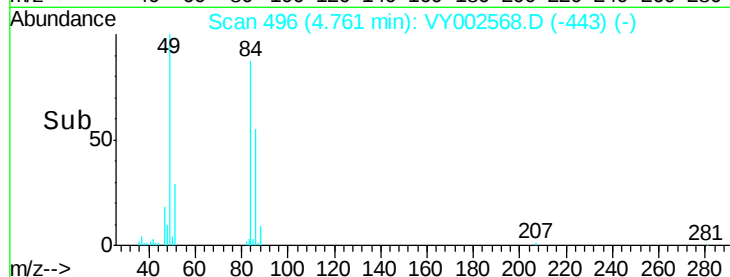
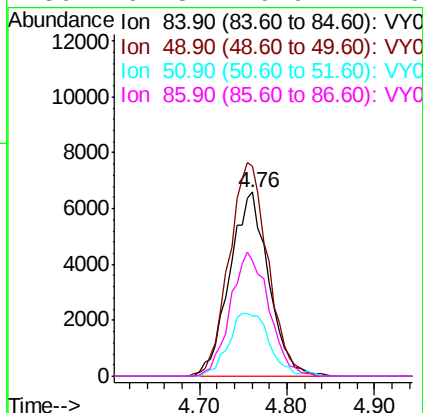
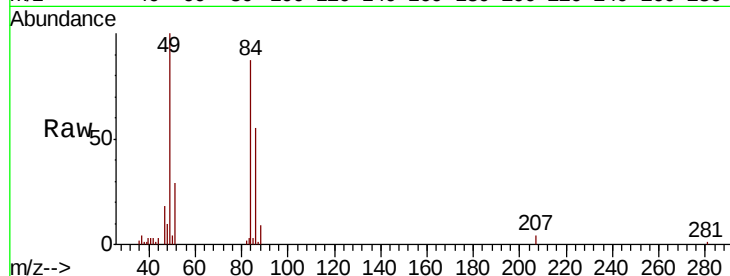




#20
Methvlene Chloride
Concen: 6.273 ug/l
RT: 4.76 min Scan# 496
Delta R.T. 0.02 min
Lab File: VY002568.D
Acq: 05 May 2020 02:43

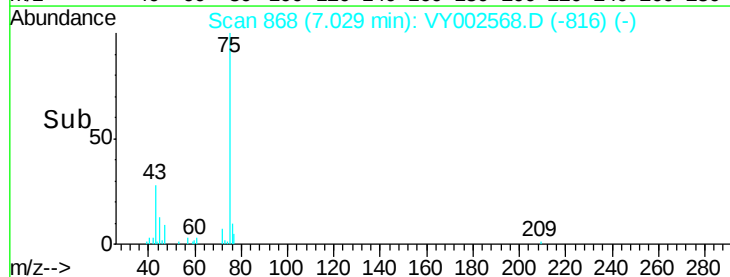
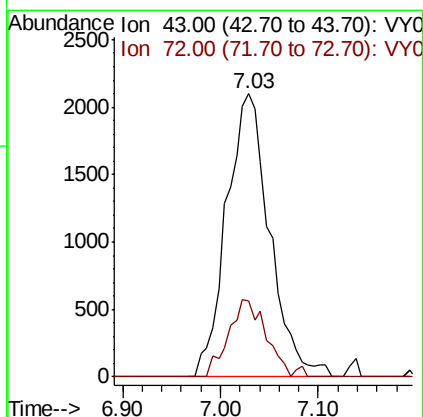
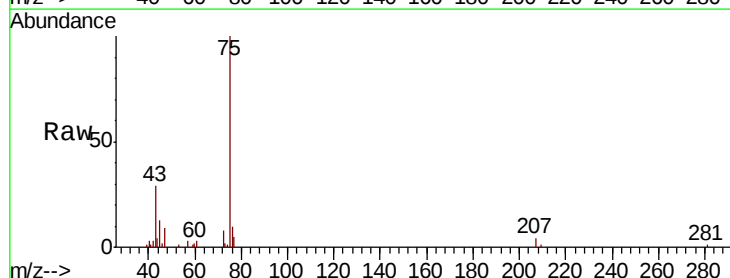
Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-014

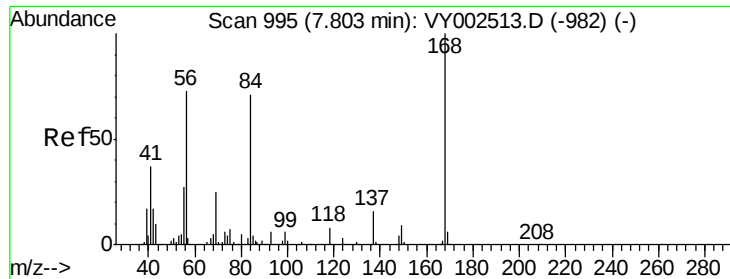
Tot Ion:	84	Resp:	20335
Ion	Ratio	Lower	Upper
84	100		
49	114.4	90.5	135.7
51	32.8	28.3	42.5
86	62.8	49.9	74.9



#25
2-Butanone
Concen: 6.765 ug/l
RT: 7.03 min Scan# 868
Delta R.T. 0.02 min
Lab File: VY002568.D
Acq: 05 May 2020 02:43

Tgt Ion:	43	Resp:	6419
Ion	Ratio	Lower	Upper
43	100		
72	27.1	24.1	36.1

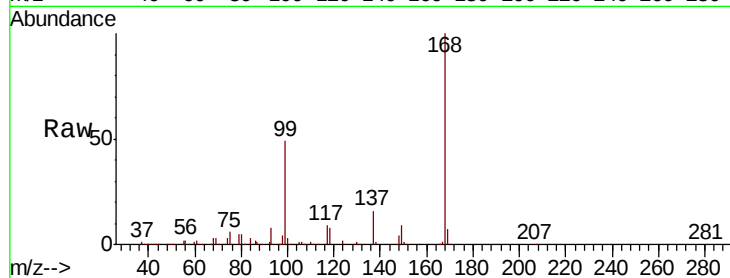




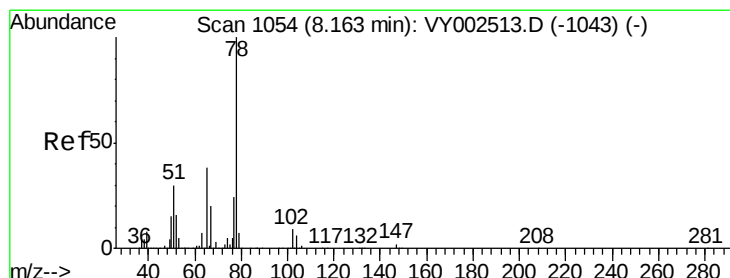
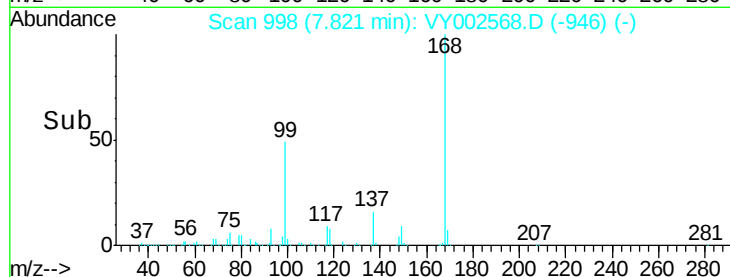
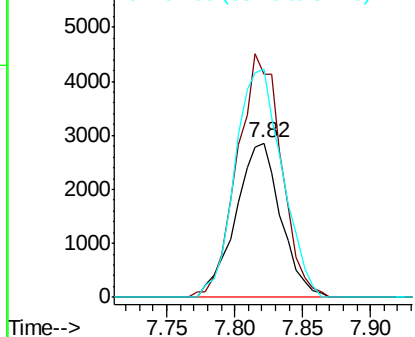
#31
Cyclohexane
Concen: 1.311 ug/l
RT: 7.82 min Scan# 998
Delta R.T. 0.02 min
Lab File: VY002568.D
Acq: 05 May 2020 02:43

Instrument :
MSVOA_Y
ClientSampleId :
FK-0D015-03-014

Tot Ion: 56 Resp: 6616
Ion Ratio Lower Upper
56 100
69 144.7 27.6 41.4#
84 148.0 77.7 116.5#

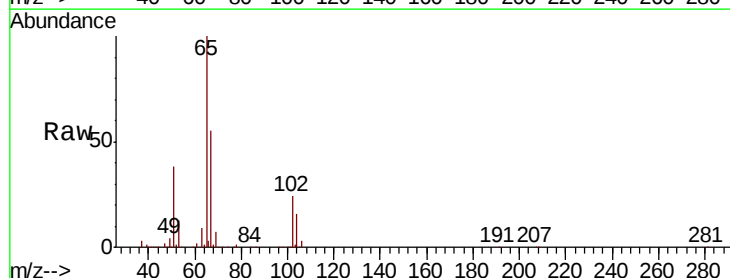


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

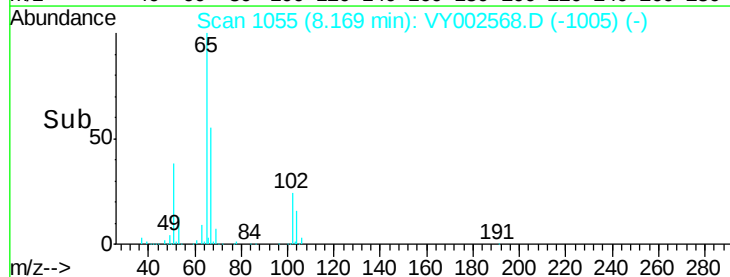
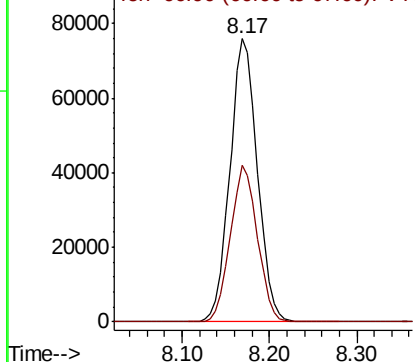


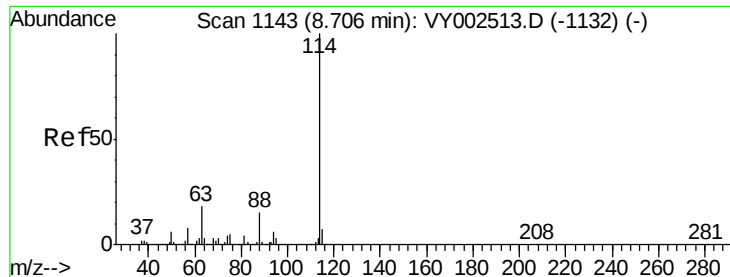
#33
1,2-Dichloroethane-d4
Concen: 58.901 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VY002568.D
Acq: 05 May 2020 02:43

Tgt Ion: 65 Resp: 165435
Ion Ratio Lower Upper
65 100
67 54.5 0.0 107.2



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: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-014

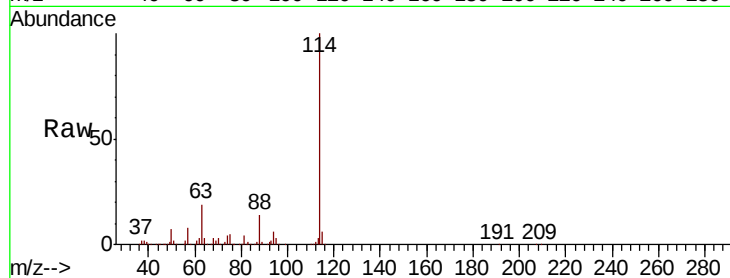
Tot Ion:114 Resp: 543204

Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.4

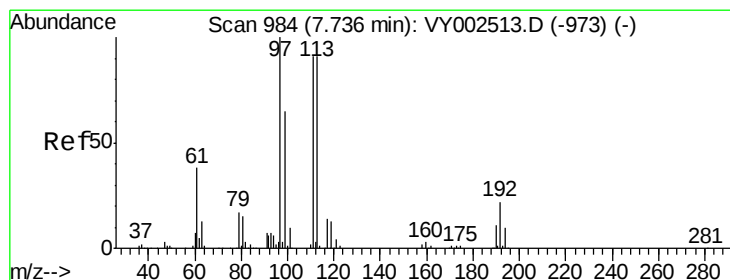
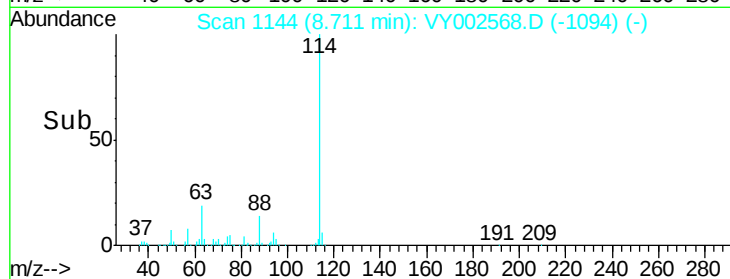
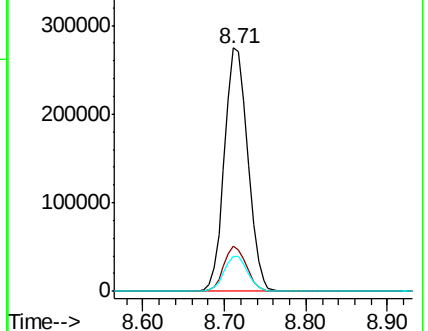
88 14.4 0.0 29.6



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: 37.968 ug/l

RT: 7.75 min Scan# 986

Delta R.T. 0.01 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

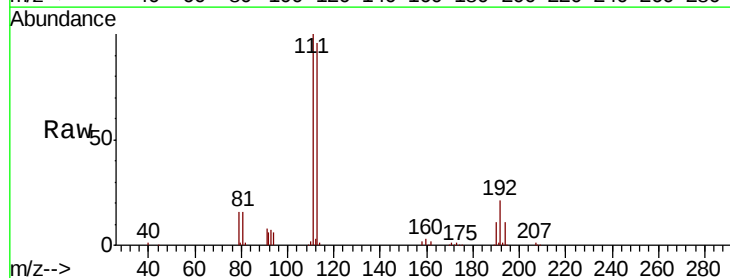
Tgt Ion:113 Resp: 117951

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.6

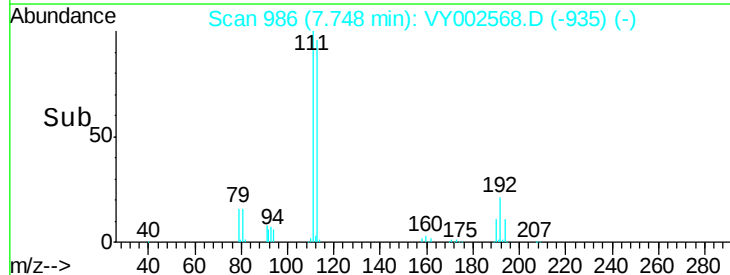
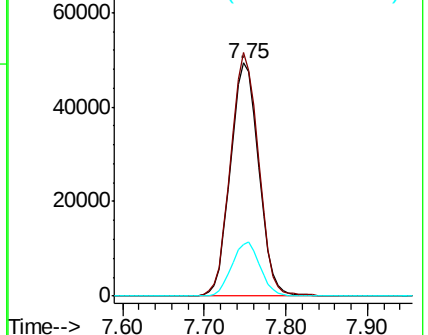
192 23.1 18.2 27.4

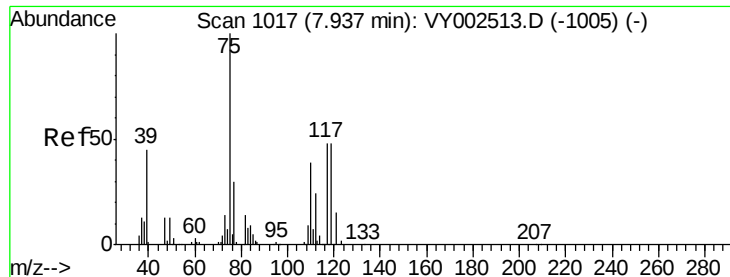


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.632 ug/l

RT: 7.82 min Scan# 998

Delta R.T. -0.12 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-014

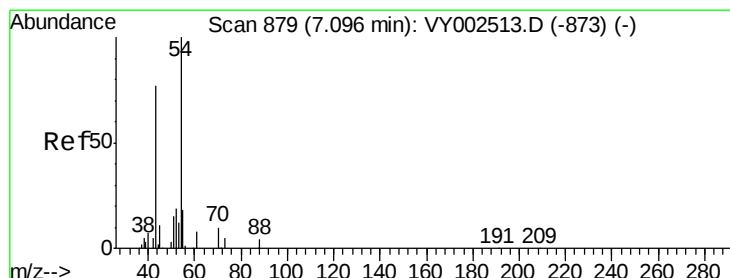
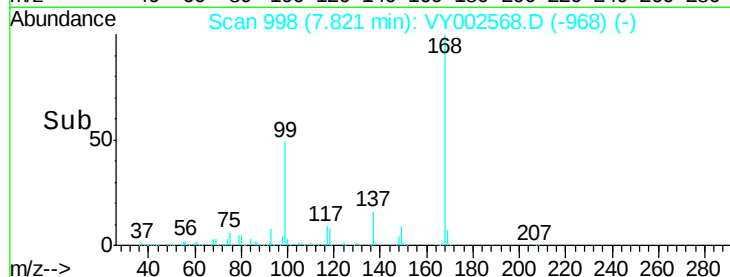
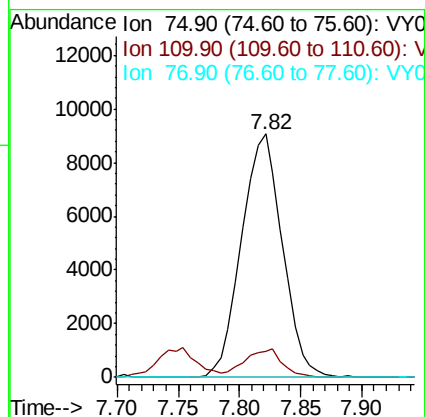
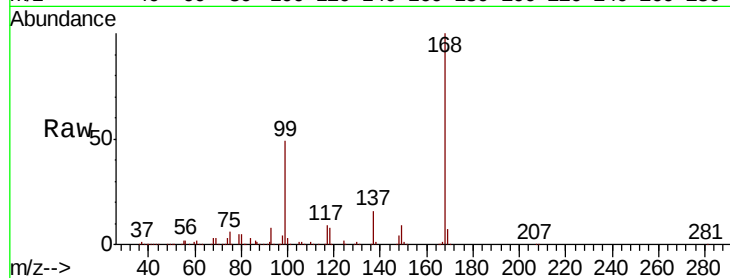
Tot Ion: 75 Resp: 21092

Ion Ratio Lower Upper

75 100

110 10.6 19.1 57.3#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 2.743 ug/l

RT: 7.03 min Scan# 868

Delta R.T. -0.07 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

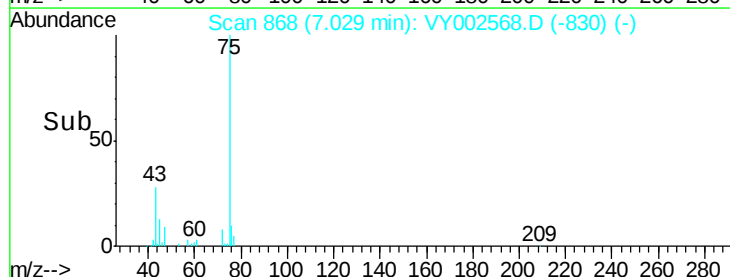
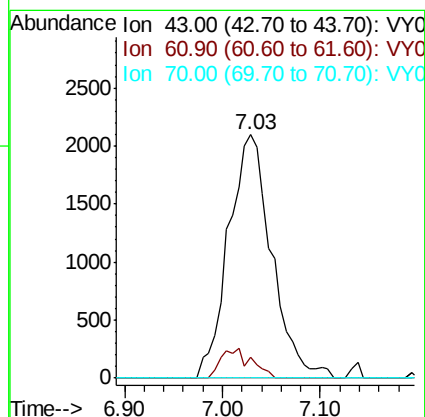
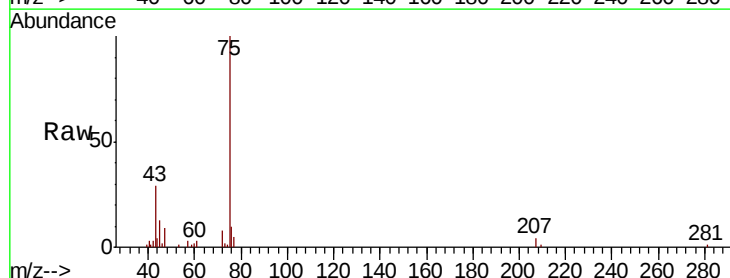
Tgt Ion: 43 Resp: 6419

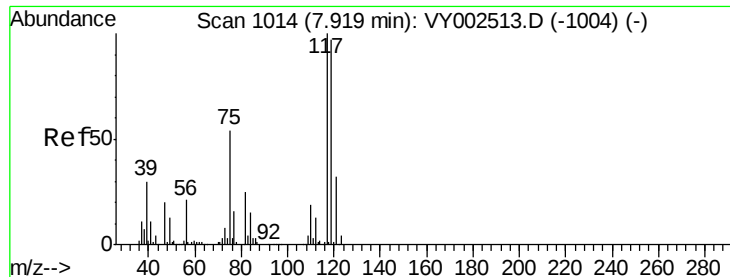
Ion Ratio Lower Upper

43 100

61 8.5 11.6 17.4#

70 0.0 9.0 13.6#





#38

Carbon Tetrachloride

Concen: 6.101 ug/l

RT: 7.82 min Scan# 998

Delta R.T. -0.10 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-014

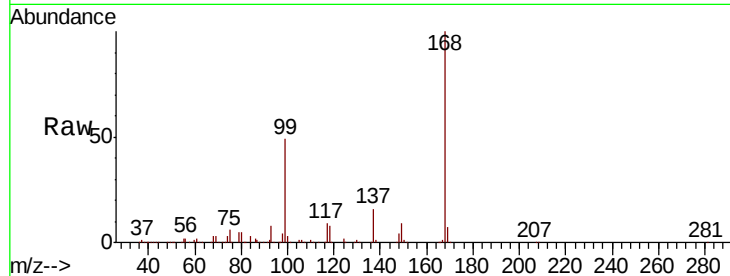
Tot Ion:117 Resp: 30331

Ion Ratio Lower Upper

117 100

119 4.2 77.1 115.7#

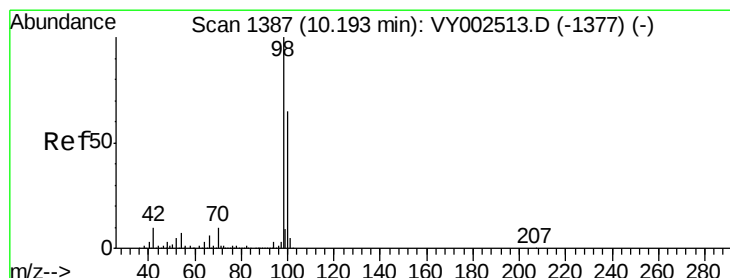
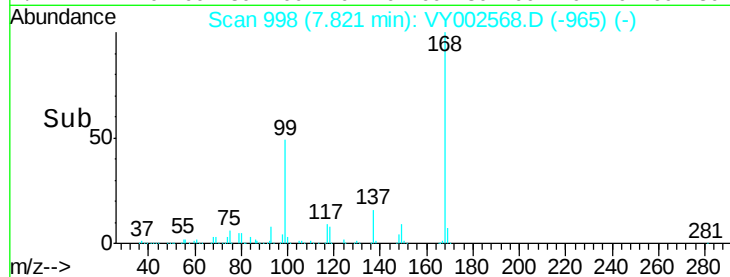
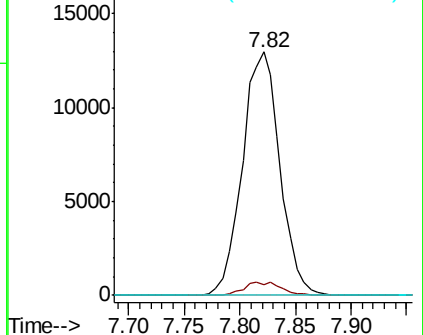
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 53.030 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY002568.D

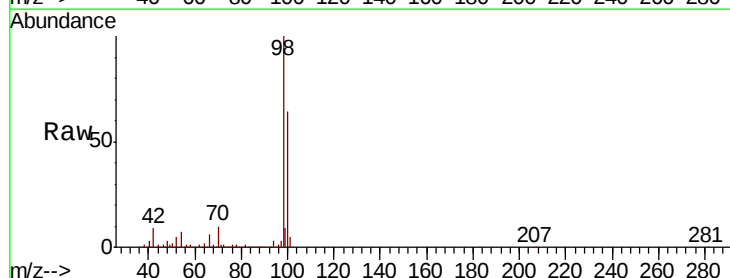
Acq: 05 May 2020 02:43

Tgt Ion: 98 Resp: 643344

Ion Ratio Lower Upper

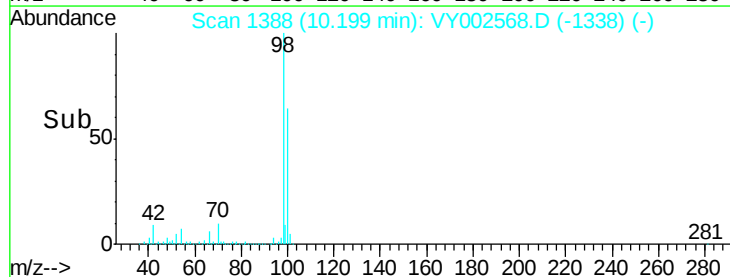
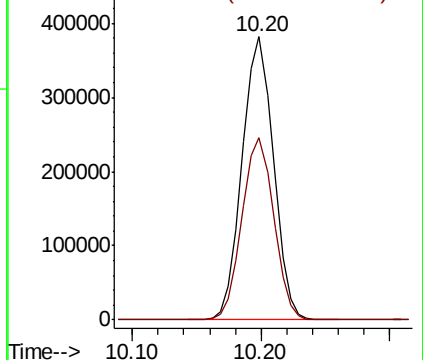
98 100

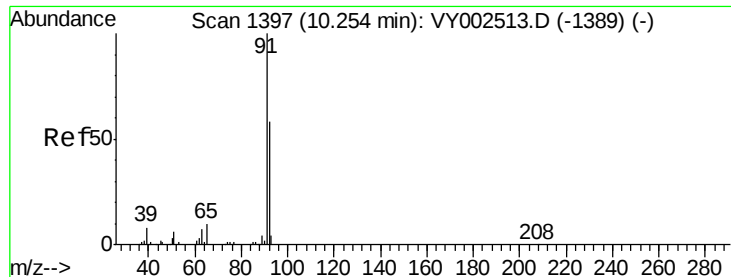
100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#52

Toluene

Concen: 1.092 ug/l

RT: 10.26 min Scan# 1398

Delta R.T. 0.01 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

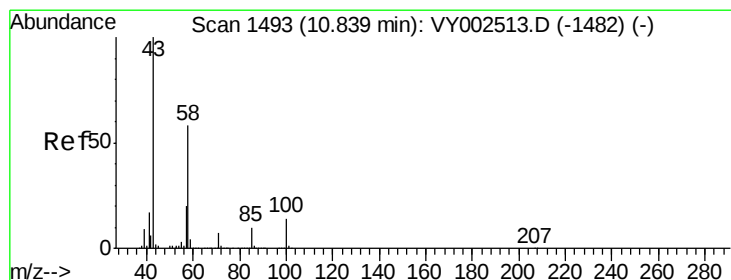
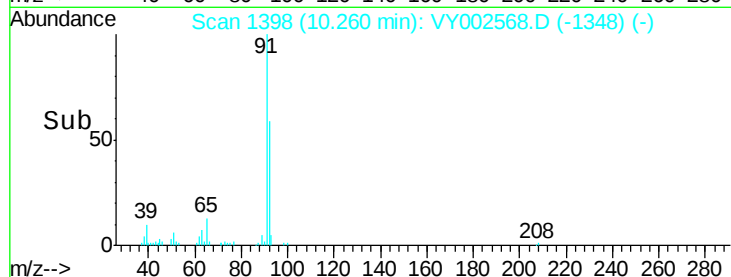
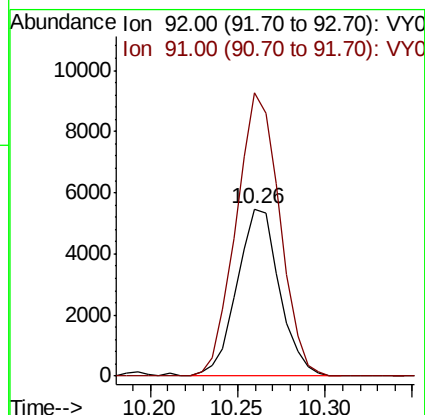
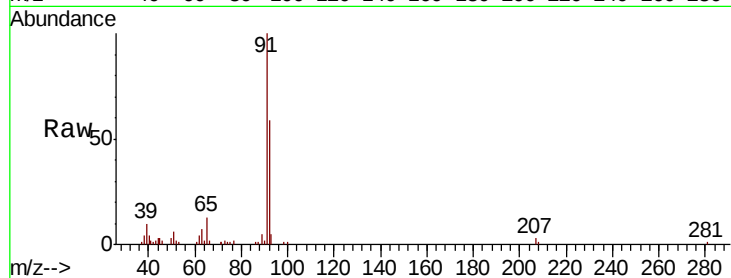
FK-0D015-03-014

Tot Ion: 92 Resp: 9229

Ion Ratio Lower Upper

92 100

91 174.0 139.3 208.9



#59

2-Hexanone

Concen: 1.920 ug/l

RT: 10.82 min Scan# 1490

Delta R.T. -0.02 min

Lab File: VY002568.D

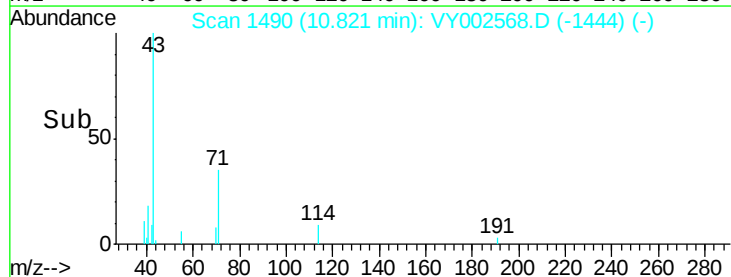
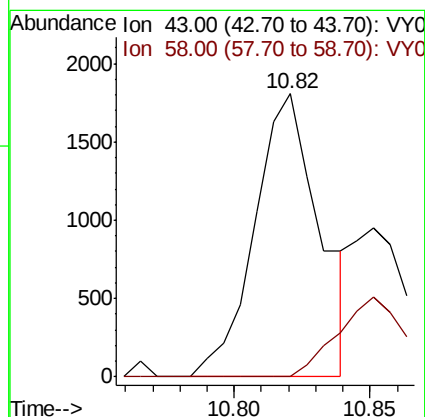
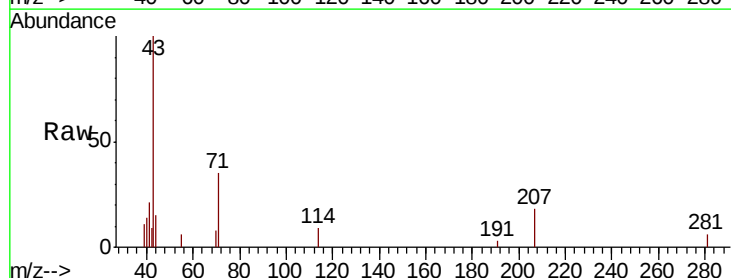
Acq: 05 May 2020 02:43

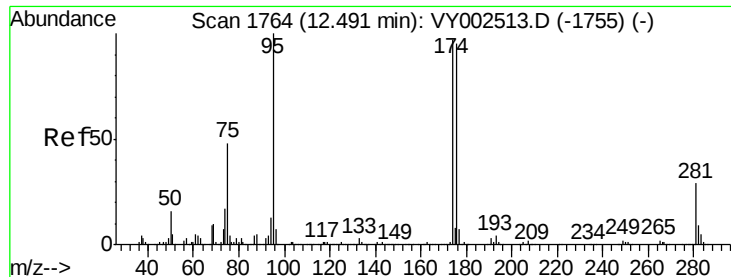
Tgt Ion: 43 Resp: 2988

Ion Ratio Lower Upper

43 100

58 0.0 29.1 87.3#





#62

4-Bromofluorobenzene

Concen: 52.941 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. 0.01 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-014

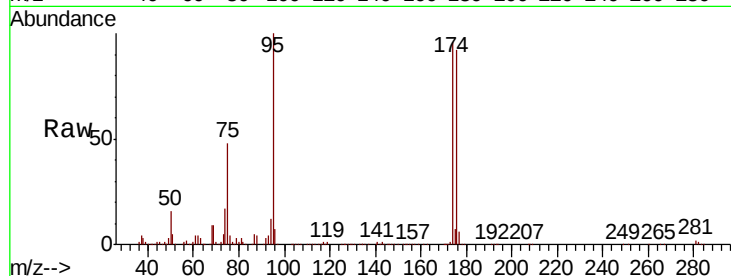
Tot Ion: 95 Resp: 217936

Ion Ratio Lower Upper

95 100

174 92.1 0.0 188.8

176 90.2 0.0 183.2



Abundance Ion 94.90 (94.60 to 95.60): VY002513.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY002513.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002513.D (-1755) (-)

12.50

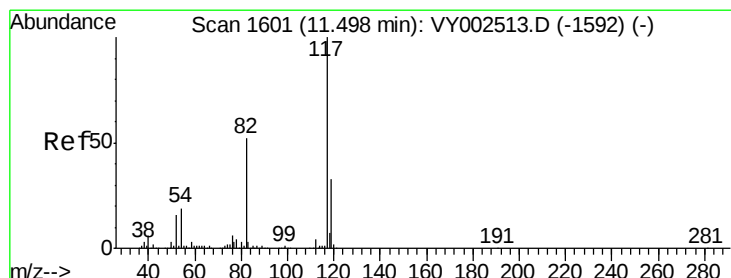
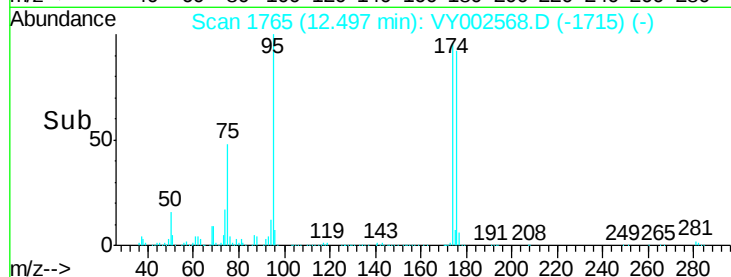
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

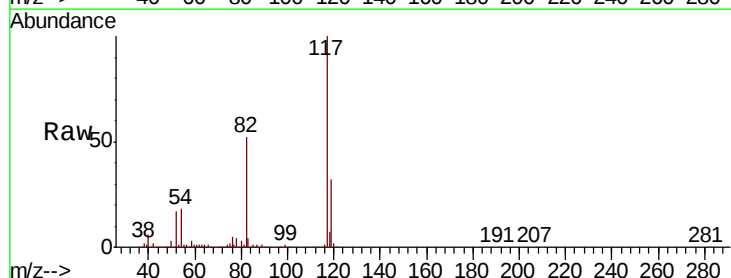
Tgt Ion: 117 Resp: 501514

Ion Ratio Lower Upper

117 100

82 52.2 41.3 61.9

119 32.5 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VY002513.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY002513.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY002513.D (-1592) (-)

11.50

400000

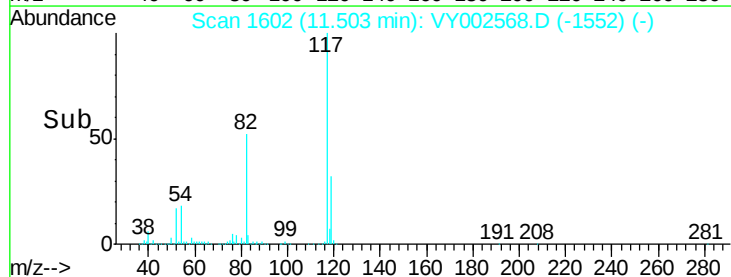
300000

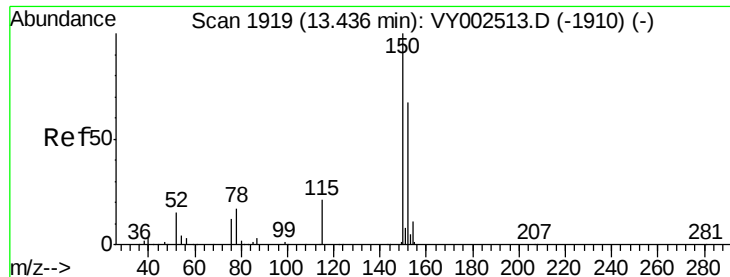
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-014

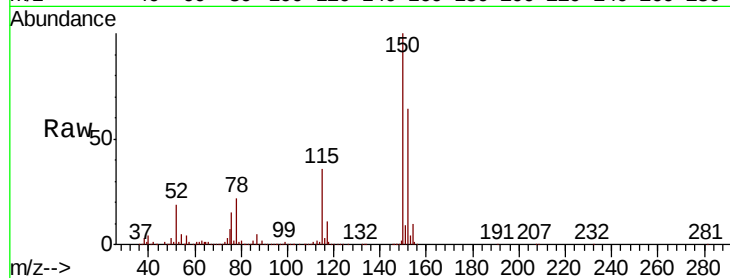
Tot Ion:152 Resp: 253699

Ion Ratio Lower Upper

152 100

115 55.0 27.5 82.4

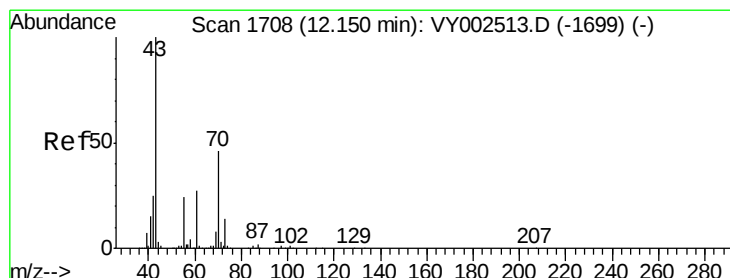
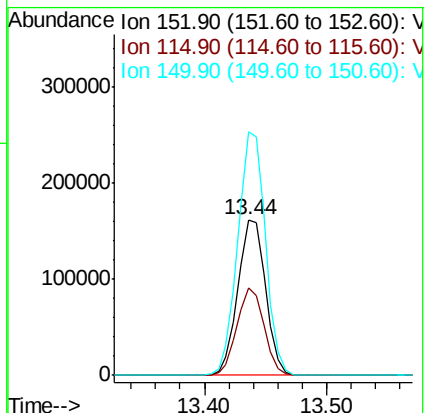
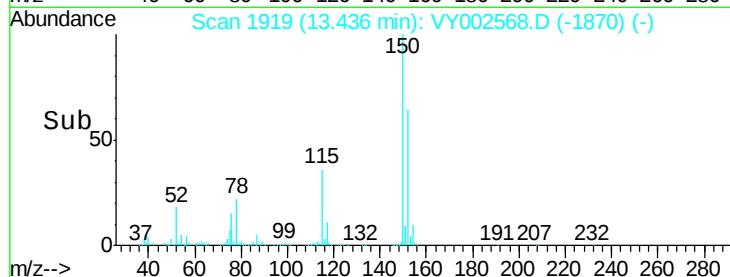
150 156.0 0.0 346.4



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



#74

N-ethyl acetate

Concen: 1.456 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.03 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Tgt Ion: 43 Resp: 5758

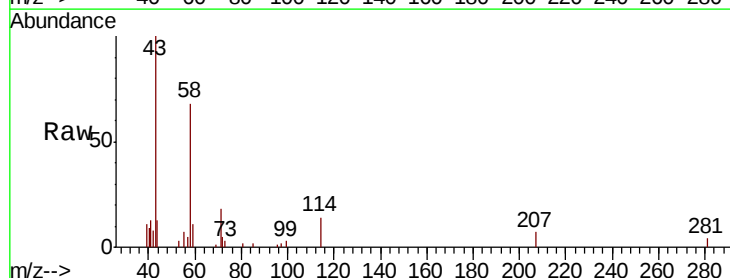
Ion Ratio Lower Upper

43 100

70 0.0 36.7 55.1#

55 7.4 19.2 28.8#

61 0.0 21.1 31.7#

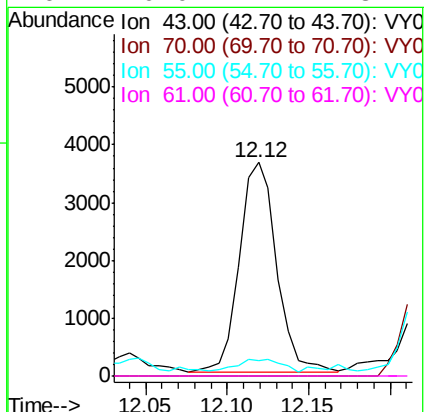
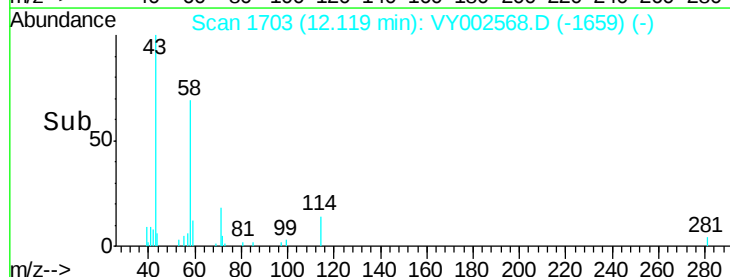


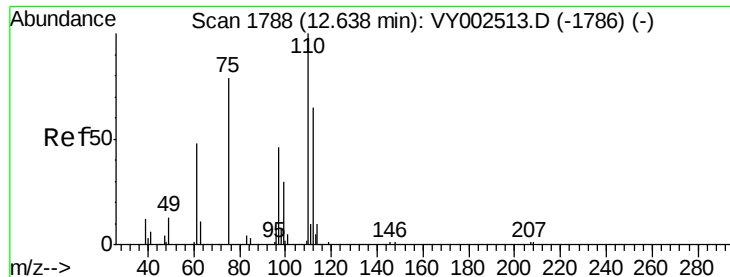
Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 46.903 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

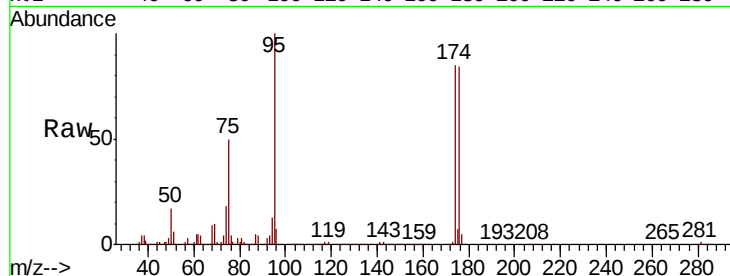
FK-0D015-03-014

Tot Ion: 75 Resp: 105744

Ion Ratio Lower Upper

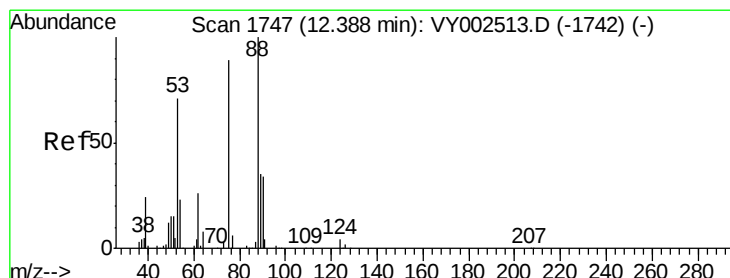
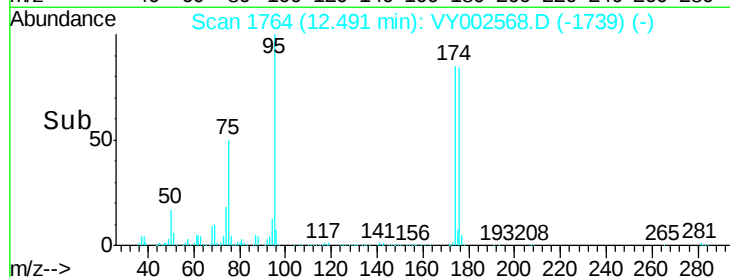
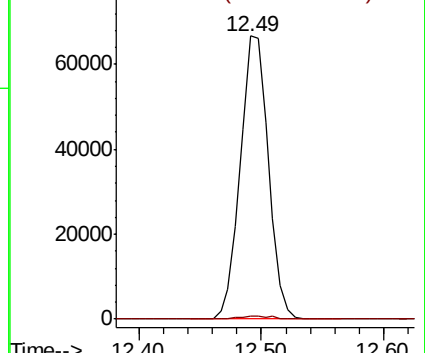
75 100

77 1.4 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: 94.049 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

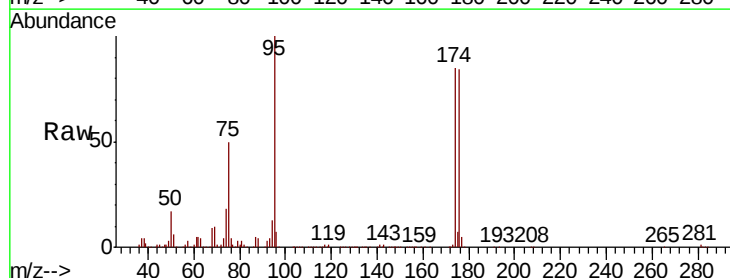
Tgt Ion: 75 Resp: 105744

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

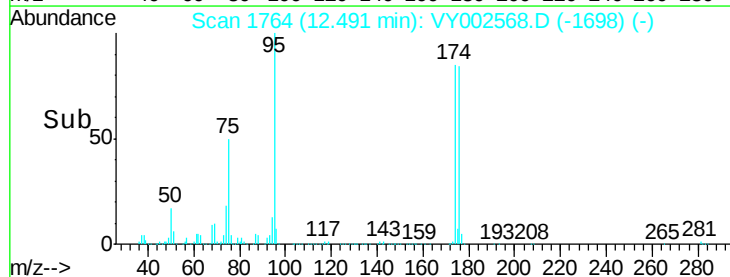
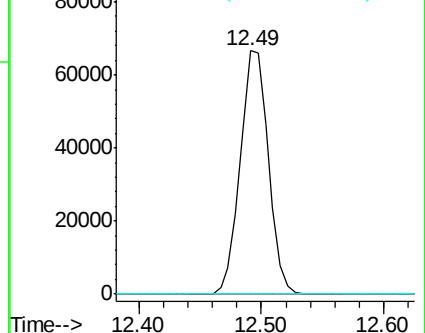
89 0.0 37.4 56.0#

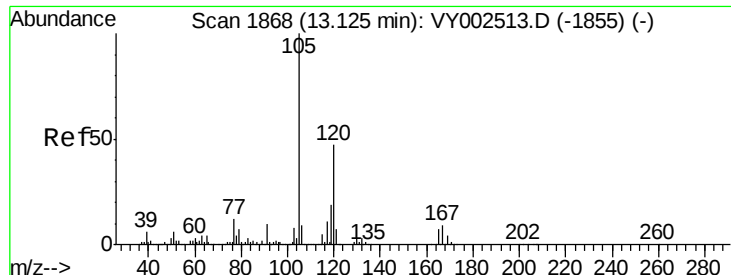


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#84

1,2,4-Trimethylbenzene

Concen: 1.180 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY002568.D

Acq: 05 May 2020 02:43

Instrument :

MSVOA_Y

ClientSampleId :

FK-0D015-03-014

Tot Ion:105 Resp: 16022

Ion Ratio Lower Upper

105 100

120 40.3 23.4 70.3

