

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011765.D
 Acq On : 22 Aug 2019 16:32
 Operator : JC/SP
 Sample : K4388-34
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-E-(0)

Quant Time: Aug 23 02:02:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	410324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	601285	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	552131	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	263389	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	209808	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
35) Dibromofluoromethane	5.49	113	177431	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
50) Toluene-d8	8.71	98	687961	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
62) 4-Bromofluorobenzene	11.13	95	239976	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	

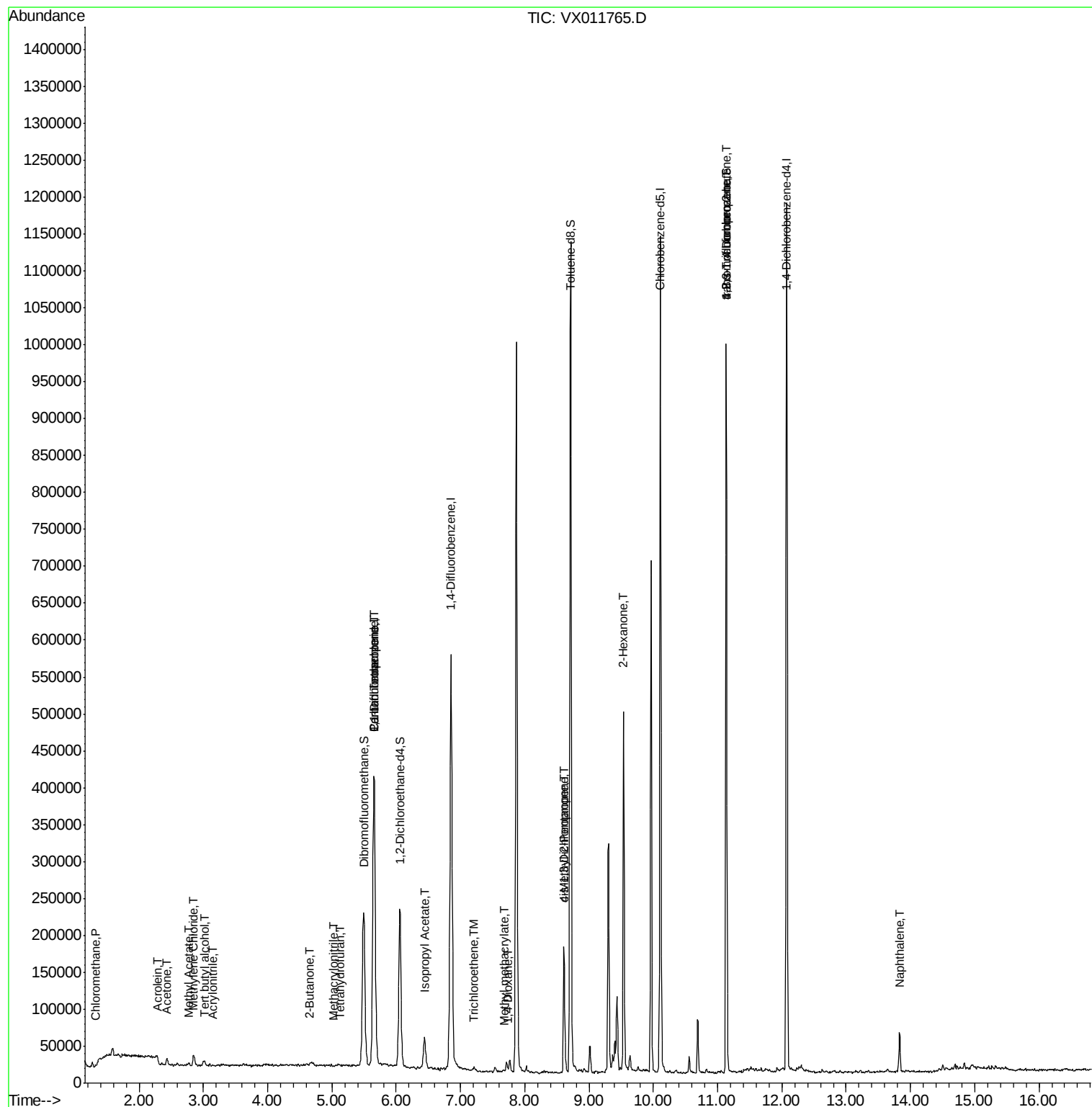
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1164	0.347	ug/l #	86
11) Tert butyl alcohol	3.01	59	4198	5.154	ug/l	96
13) Acrolein	2.29	56	524	1.664	ug/l	95
15) Acrylonitrile	3.14	53	401	0.215	ug/l #	75
16) Acetone	2.43	43	10808	6.028	ug/l	98
18) Methyl Acetate	2.77	43	3644	0.749	ug/l	91
20) Methylene Chloride	2.85	84	8717	2.378	ug/l	94
25) 2-Butanone	4.66	43	705	0.274	ug/l #	83
29) Tetrahydrofuran	5.12	42	548	0.332	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	25370	5.381	ug/l #	52
38) Carbon Tetrachloride	5.65	117	36228	6.780	ug/l #	16
41) Methacrylonitrile	5.03	41	591	0.204	ug/l #	10
43) Isopropyl Acetate	6.44	43	57340	7.100	ug/l	99
44) Trichloroethene	7.21	130	1935	0.430	ug/l	88
48) Methyl methacrylate	7.67	41	4496	1.119	ug/l #	17
49) 1,4-Dioxane	7.74	88	208	1.868	ug/l #	26
51) 4-Methyl-2-Pentanone	8.61	43	56614	10.639	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	28095	5.042	ug/l #	60
59) 2-Hexanone	9.54	43	55001	13.466	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	108840	23.550	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	108840	71.022	ug/l #	11
95) Naphthalene	13.83	128	35688	2.167	ug/l	98

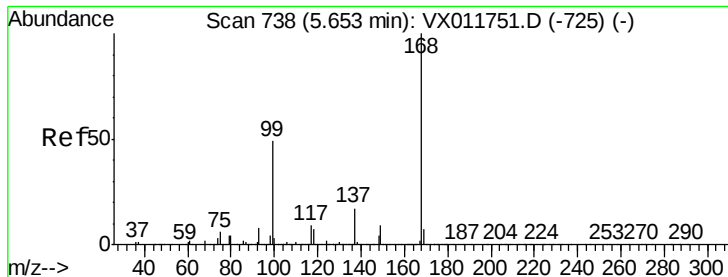
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

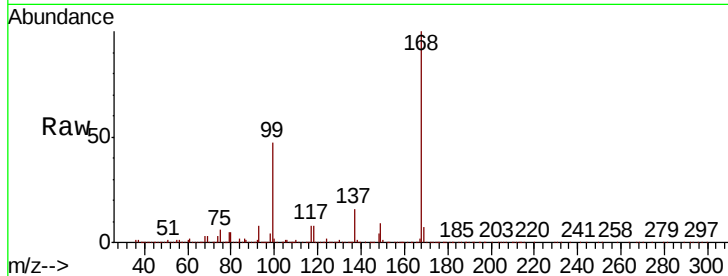
T4-E-(0)

Tgt Ion:168 Resp: 410324

Ion Ratio Lower Upper

168 100

99 46.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

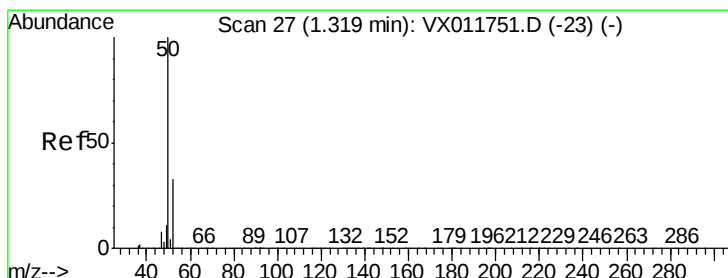
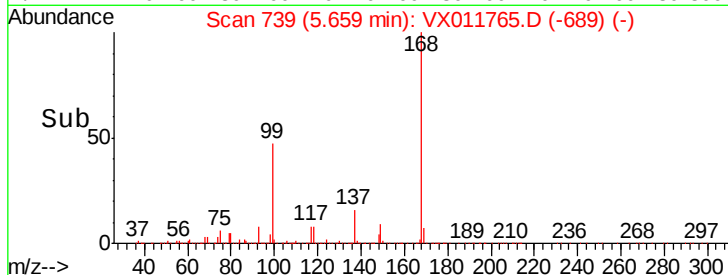
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.347 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011765.D

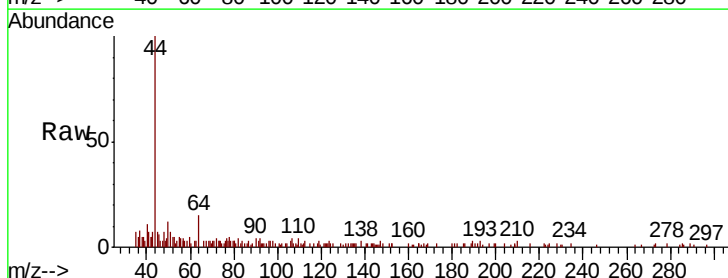
Acq: 22 Aug 2019 16:32

Tgt Ion: 50 Resp: 1164

Ion Ratio Lower Upper

50 100

52 41.2 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

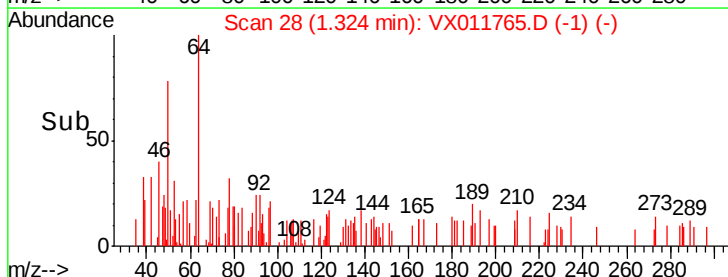
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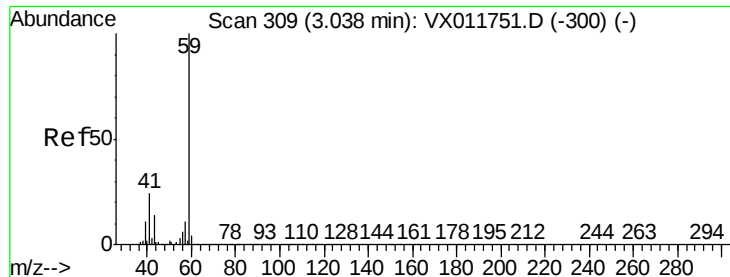
100

0

1.30 1.35

Time-->

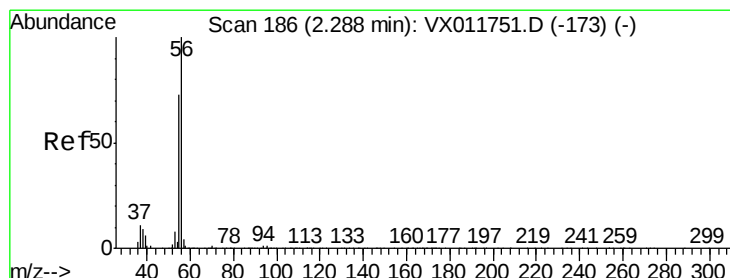
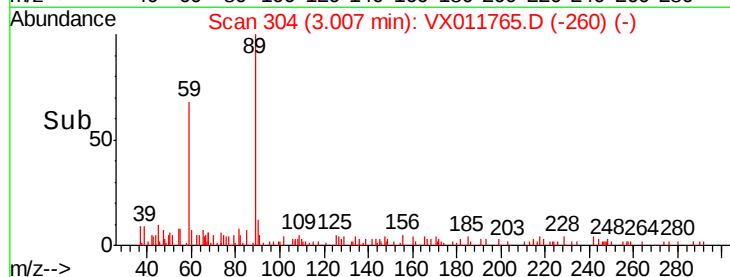
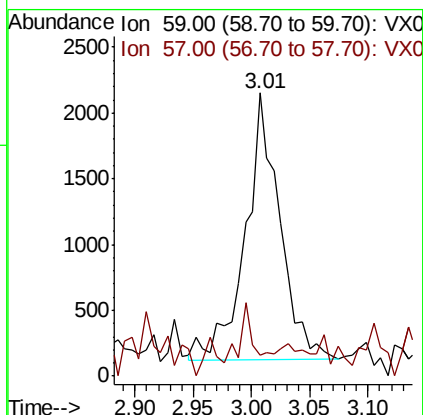
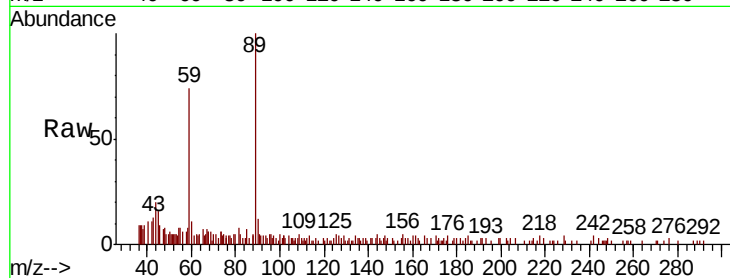




#11
Tert butyl alcohol
Concen: 5.154 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

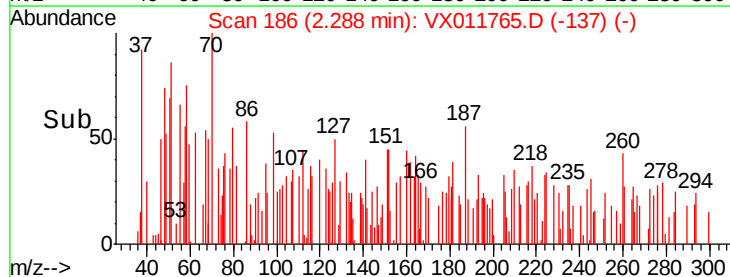
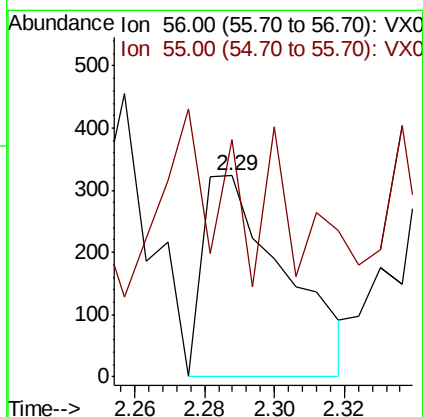
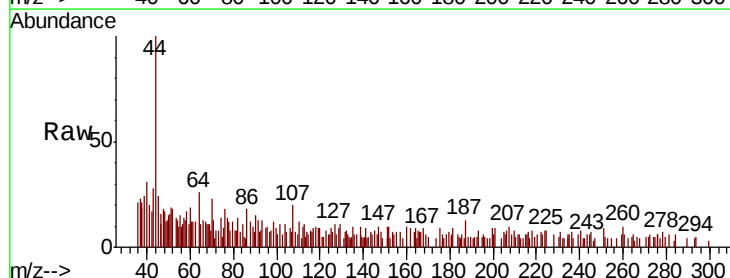
Instrument :
MSVOA_X
ClientSampleId :
T4-E-(0)

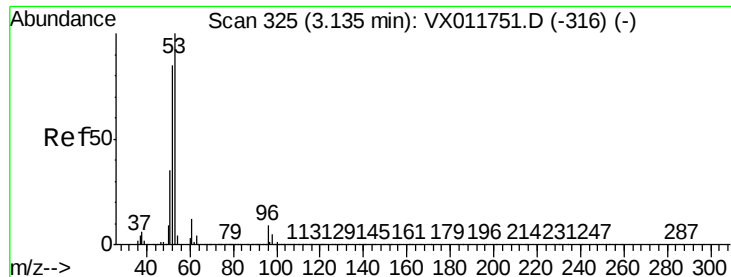
Tgt Ion: 59 Resp: 4198
Ion Ratio Lower Upper
59 100
57 8.9 8.4 12.6



#13
Acrolein
Concen: 1.664 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.00 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Tgt Ion: 56 Resp: 524
Ion Ratio Lower Upper
56 100
55 64.5 54.8 82.2





#15

Acrylonitrile

Concen: 0.215 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

T4-E-(0)

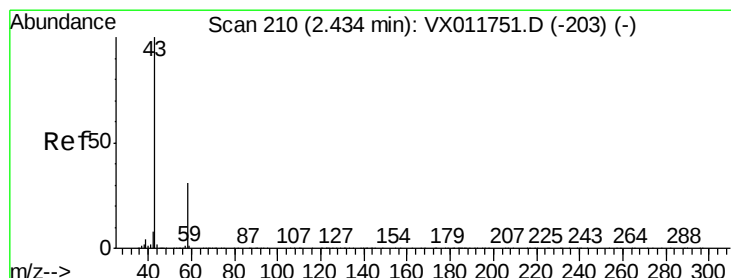
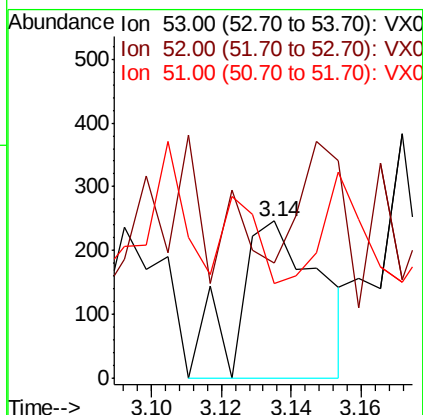
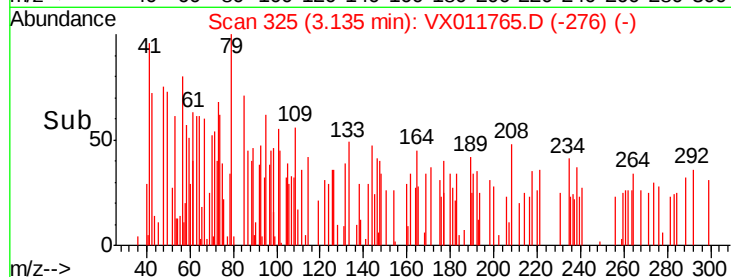
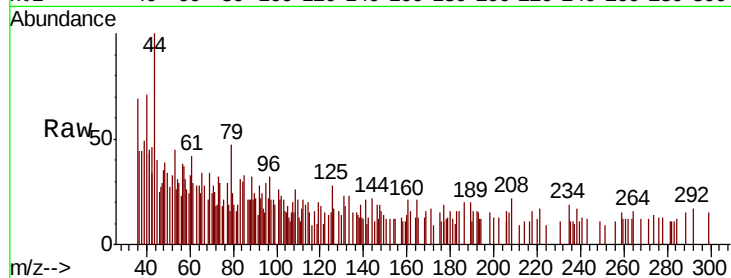
Tgt Ion: 53 Resp: 401

Ion Ratio Lower Upper

53 100

52 58.4 65.7 98.5#

51 48.4 28.6 43.0#



#16

Acetone

Concen: 6.028 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011765.D

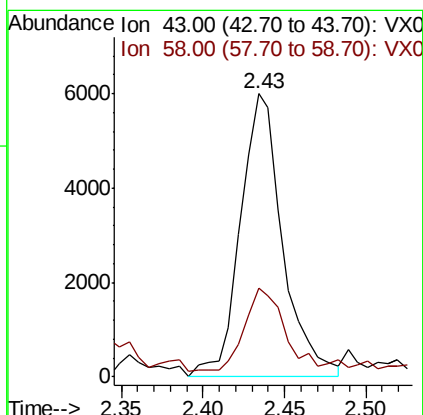
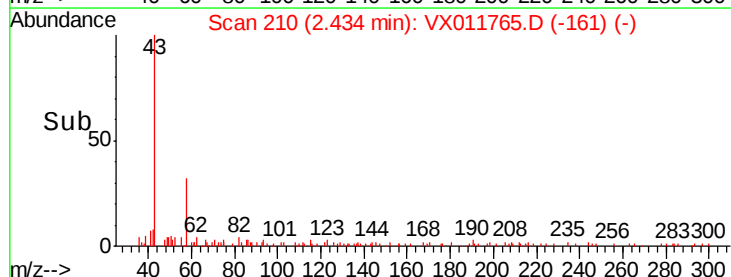
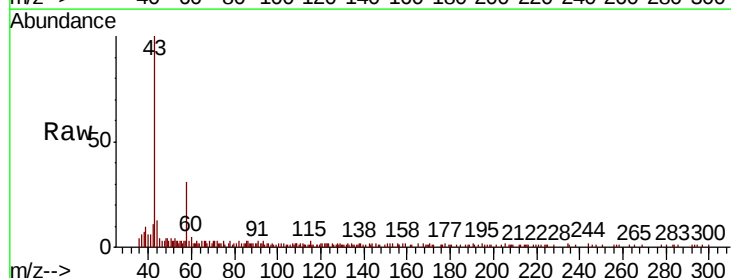
Acq: 22 Aug 2019 16:32

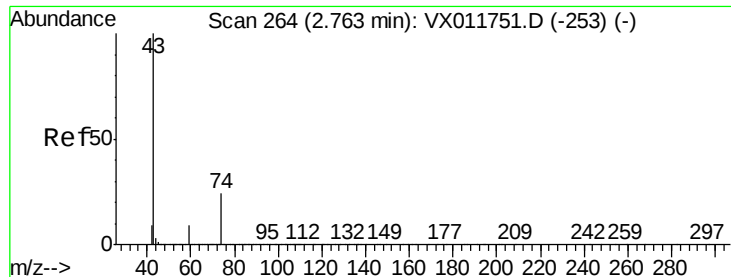
Tgt Ion: 43 Resp: 10808

Ion Ratio Lower Upper

43 100

58 29.5 24.4 36.6

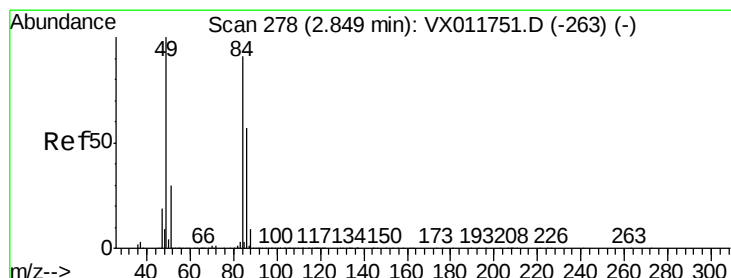
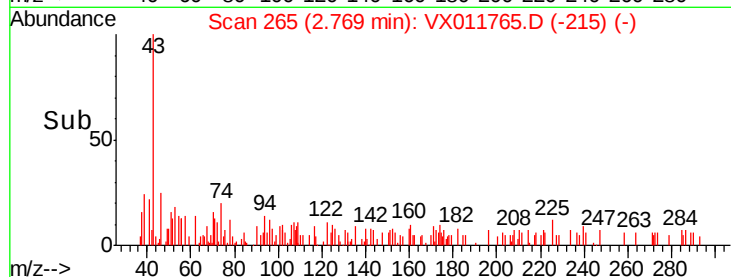
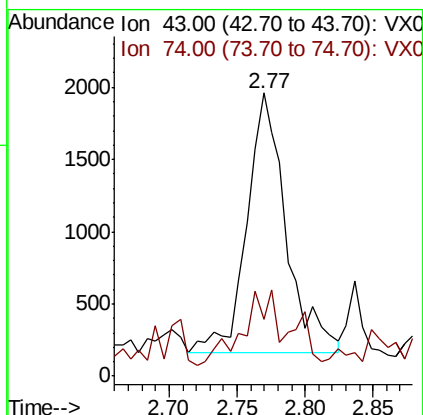
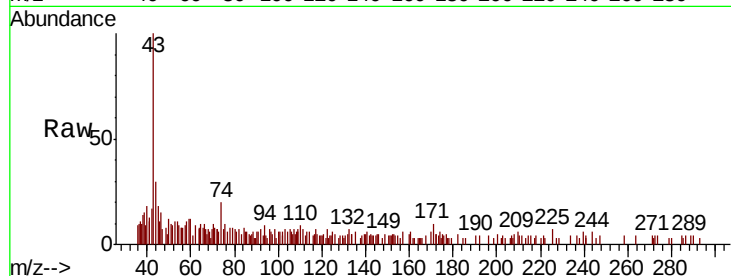




#18
Methyl Acetate
Concen: 0.749 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

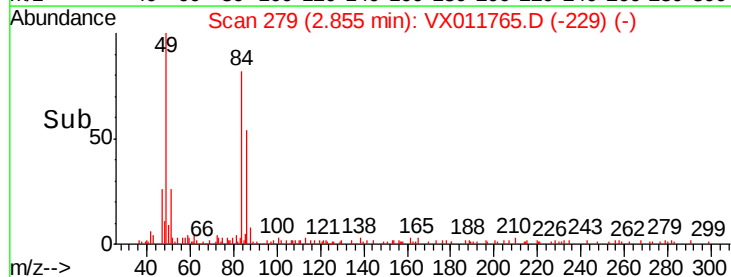
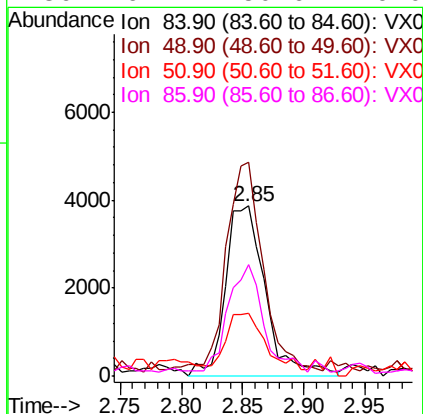
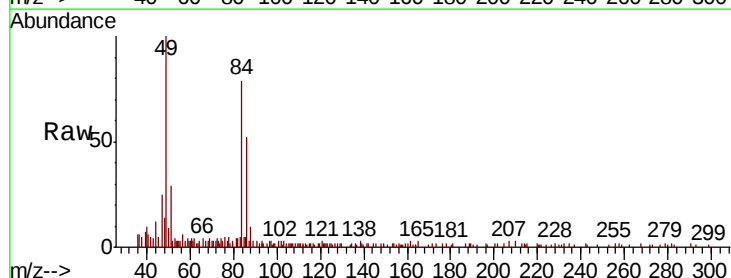
Instrument :
MSVOA_X
ClientSampleId :
T4-E-(0)

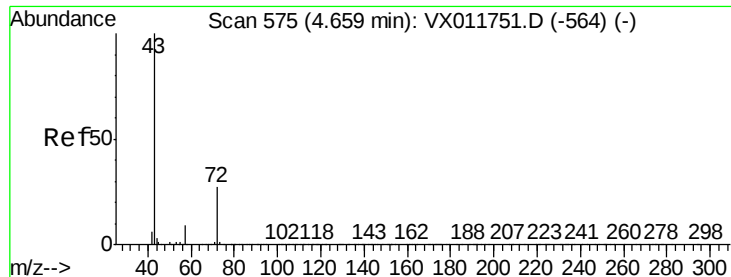
Tgt Ion: 43 Resp: 3644
Ion Ratio Lower Upper
43 100
74 28.9 19.5 29.3



#20
Methylene Chloride
Concen: 2.378 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Tgt Ion: 84 Resp: 8717
Ion Ratio Lower Upper
84 100
49 119.6 88.3 132.5
51 31.2 26.2 39.2
86 62.2 50.6 76.0





#25

2-Butanone

Concen: 0.274 ug/l

RT: 4.66 min Scan# 575

Delta R.T. -0.00 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

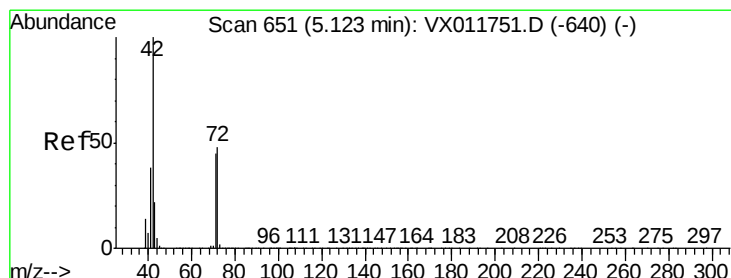
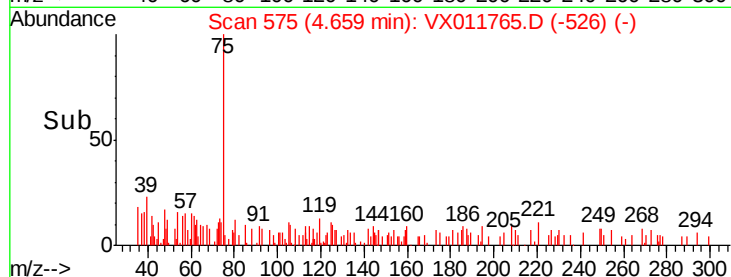
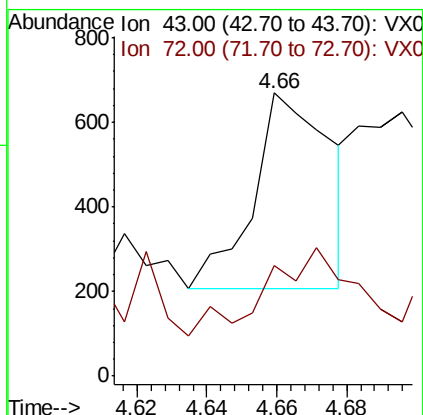
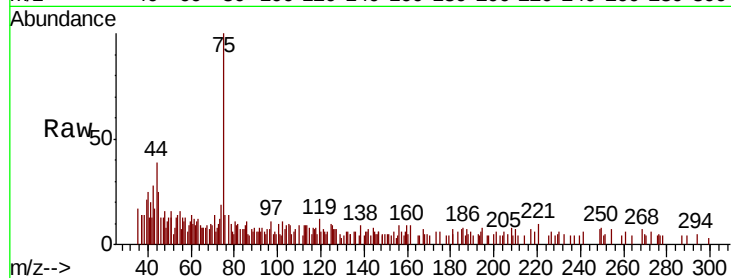
T4-E-(0)

Tgt Ion: 43 Resp: 705

Ion Ratio Lower Upper

43 100

72 36.2 21.8 32.6#



#29

Tetrahydrofuran

Concen: 0.332 ug/l

RT: 5.12 min Scan# 650

Delta R.T. -0.01 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

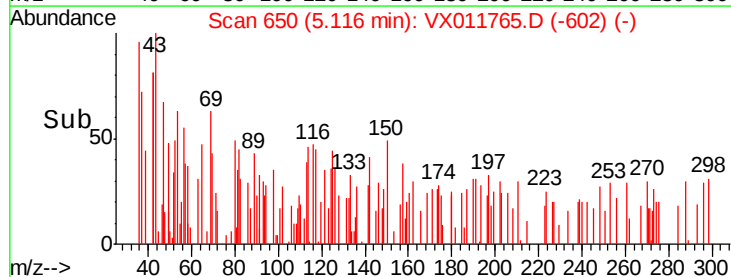
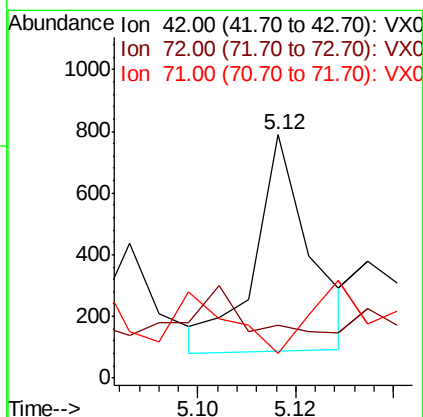
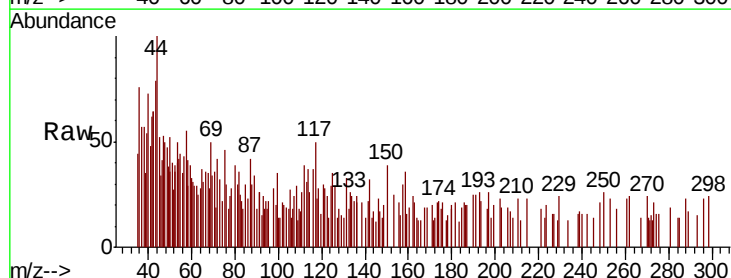
Tgt Ion: 42 Resp: 548

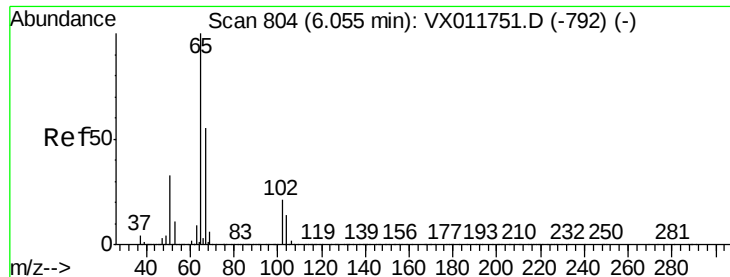
Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

71 62.6 34.6 51.8#

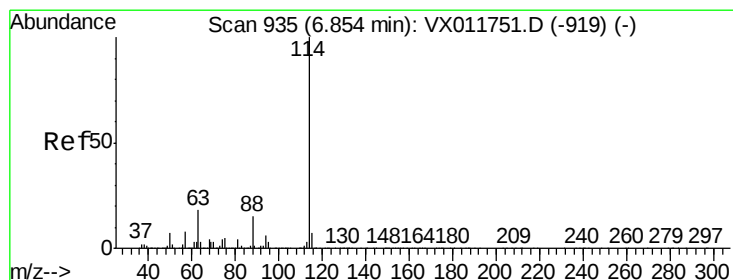
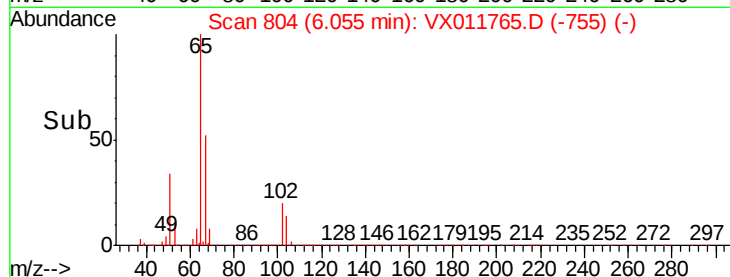
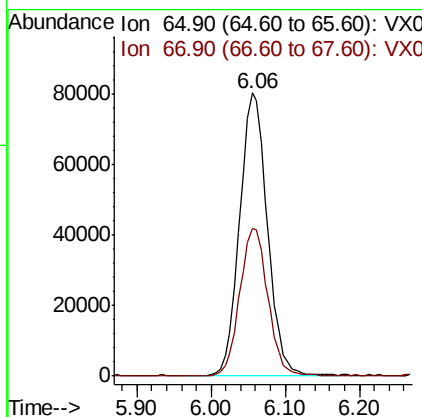
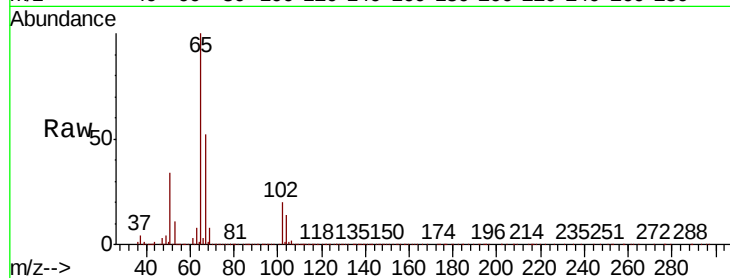




#33
 1,2-Dichloroethane-d4
 Concen: 50.900 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. -0.00 min
 Lab File: VX011765.D
 Acq: 22 Aug 2019 16:32

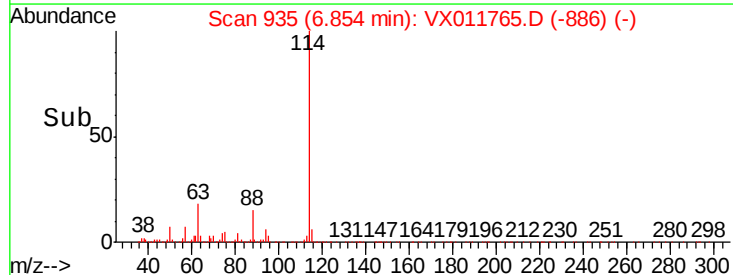
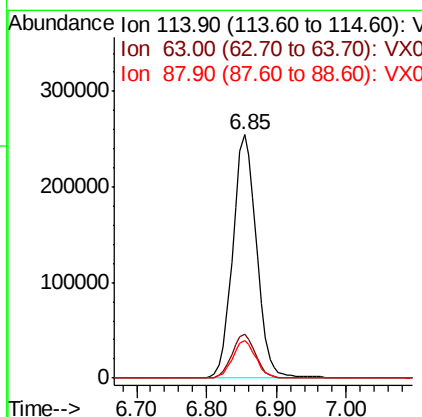
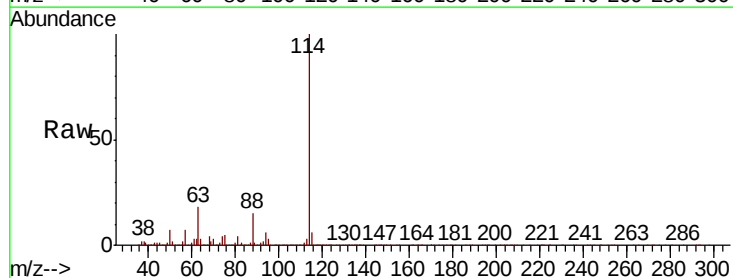
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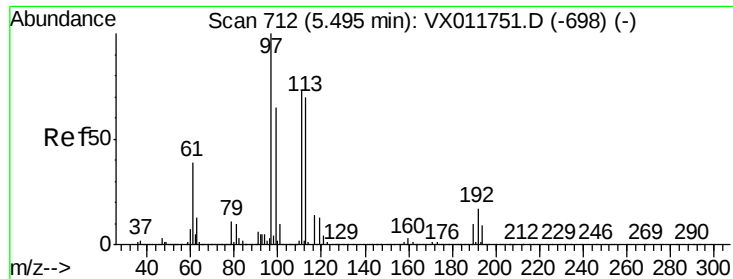
Tgt Ion: 65 Resp: 209808
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011765.D
 Acq: 22 Aug 2019 16:32

Tgt Ion: 114 Resp: 601285
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 36.8
 88 15.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 45.634 ug/l

RT: 5.49 min Scan# 712

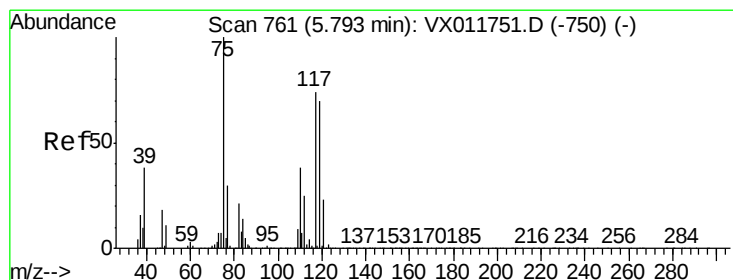
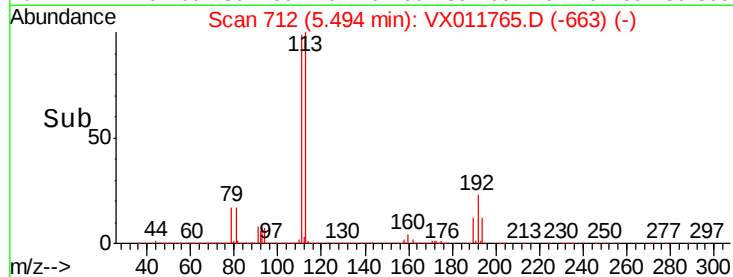
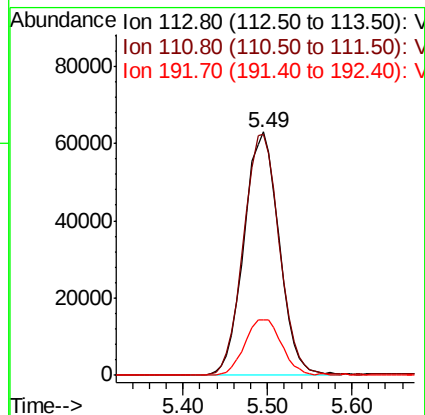
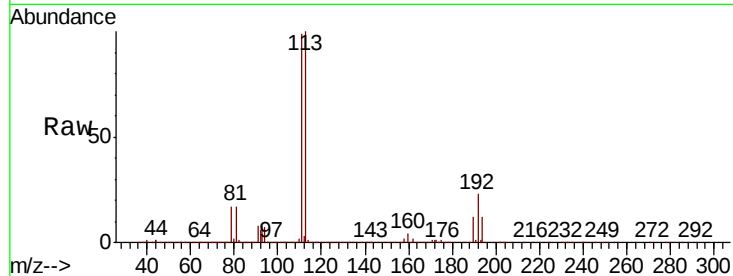
Delta R.T. -0.00 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :
MSVOA_X
ClientSampleId :
T4-E-(0)

Tgt Ion:	113	Resp:	177431
Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.0	121.4
192	23.9	19.9	29.9



#36

1,1-Dichloropropene

Concen: 5.381 ug/l

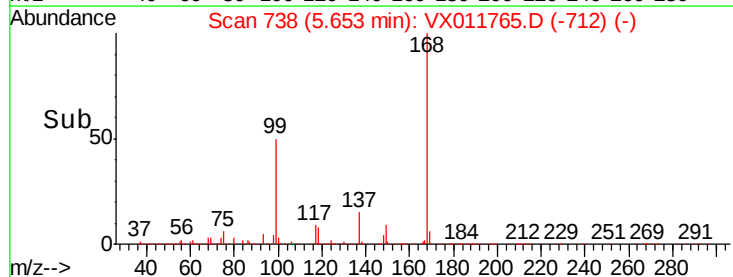
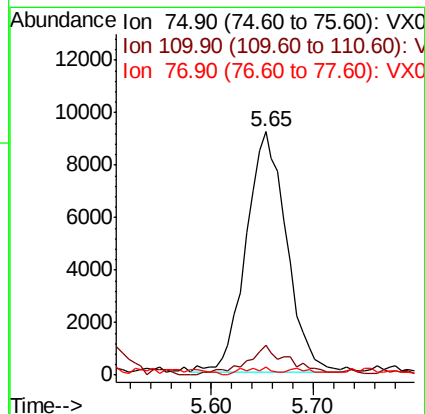
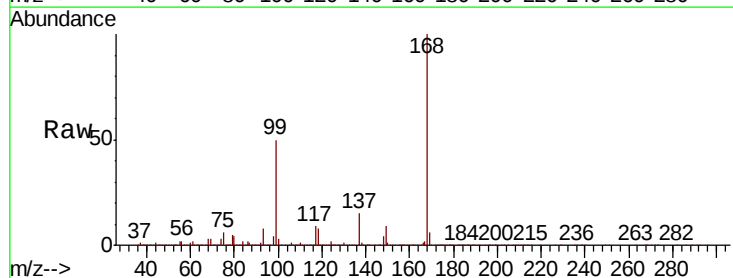
RT: 5.65 min Scan# 738

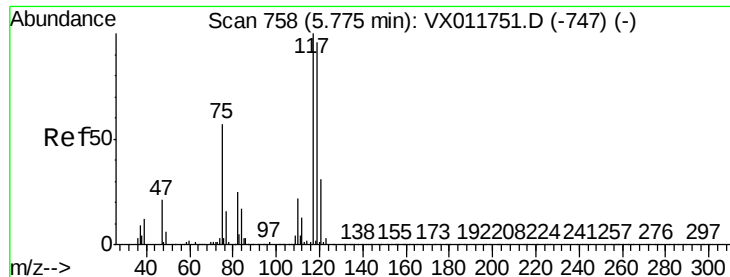
Delta R.T. -0.14 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Tgt Ion:	75	Resp:	25370
Ion	Ratio	Lower	Upper
75	100		
110	13.1	19.0	57.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.780 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

T4-E-(0)

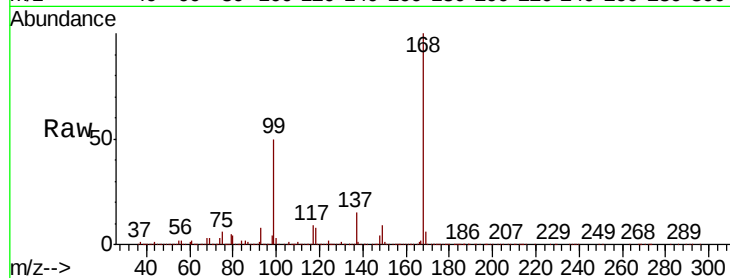
Tgt Ion:117 Resp: 36228

Ion Ratio Lower Upper

117 100

119 5.3 76.6 114.8#

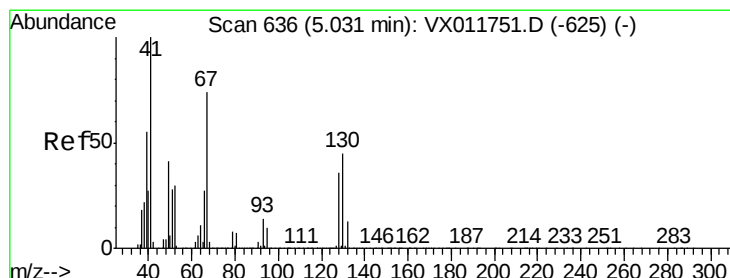
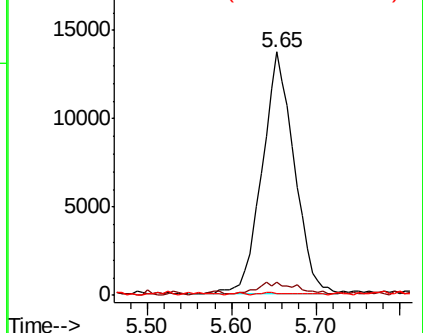
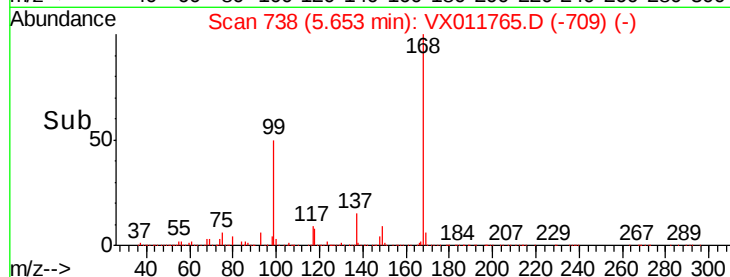
121 0.0 25.2 37.8#



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



#41

Methacrylonitrile

Concen: 0.204 ug/l

RT: 5.03 min Scan# 635

Delta R.T. -0.01 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Tgt Ion: 41 Resp: 591

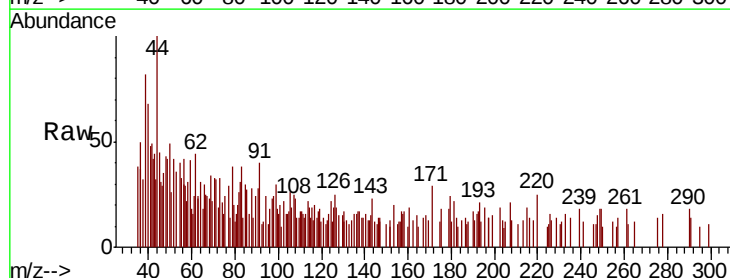
Ion Ratio Lower Upper

41 100

39 142.1 44.3 66.5#

67 0.0 60.3 90.5#

52 50.3 24.0 36.0#

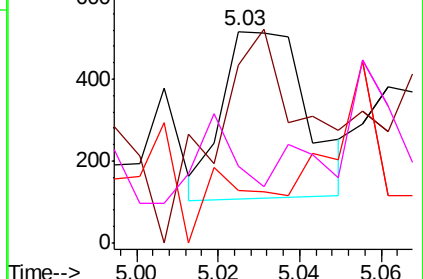
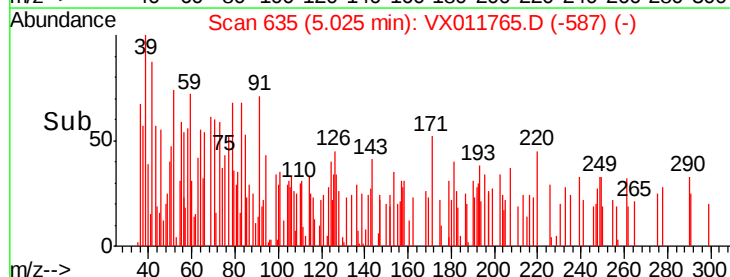


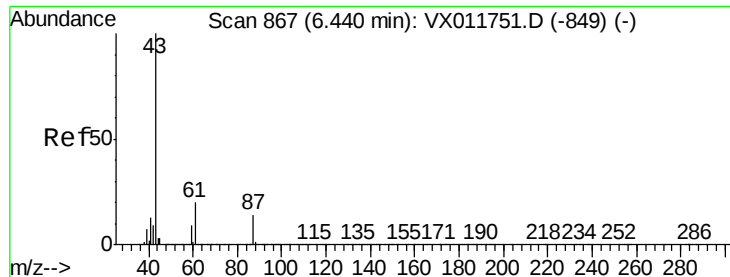
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 7.100 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

T4-E-(0)

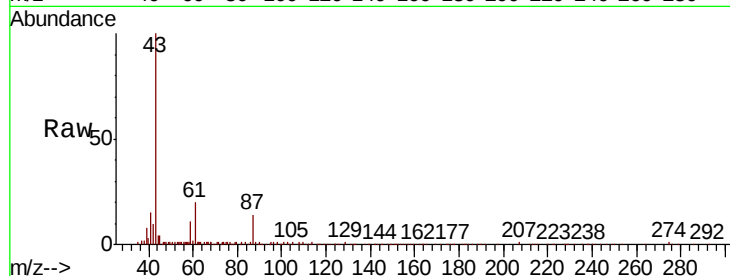
Tgt Ion: 43 Resp: 57340

Ion Ratio Lower Upper

43 100

61 21.2 16.2 24.2

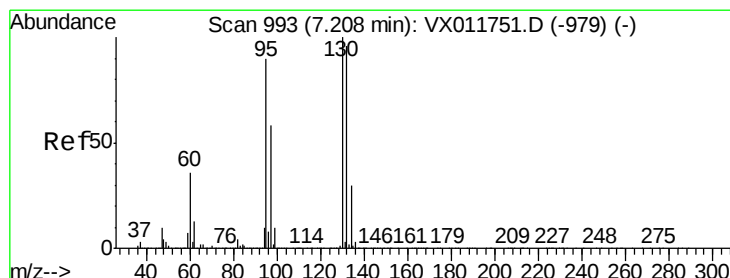
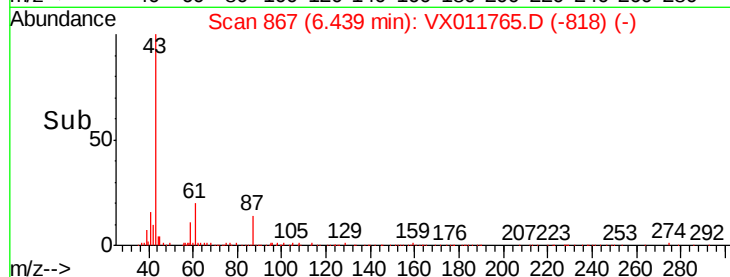
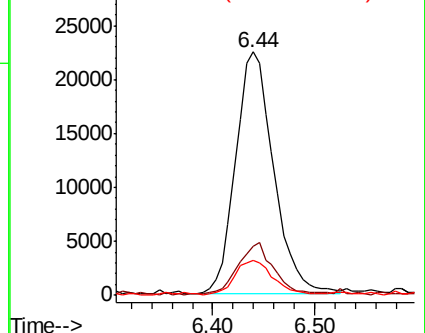
87 14.5 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#44

Trichloroethene

Concen: 0.430 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX011765.D

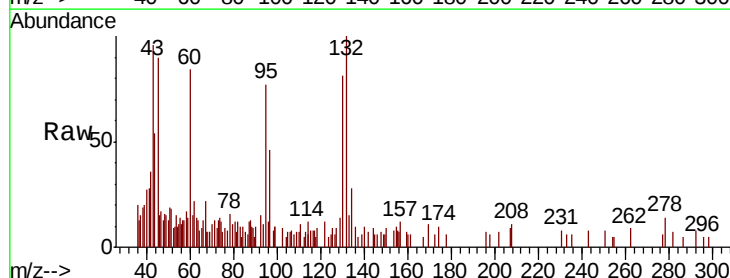
Acq: 22 Aug 2019 16:32

Tgt Ion: 130 Resp: 1935

Ion Ratio Lower Upper

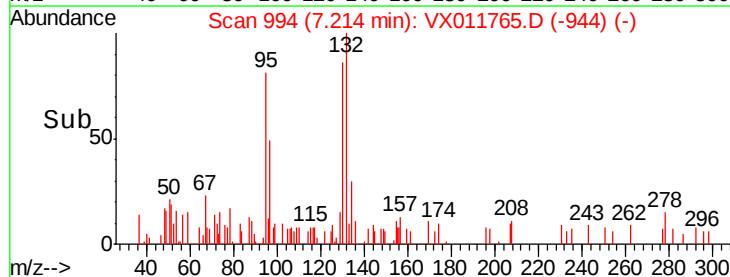
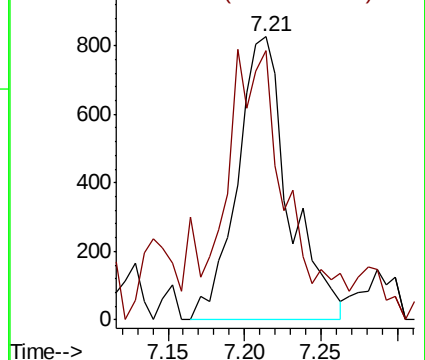
130 100

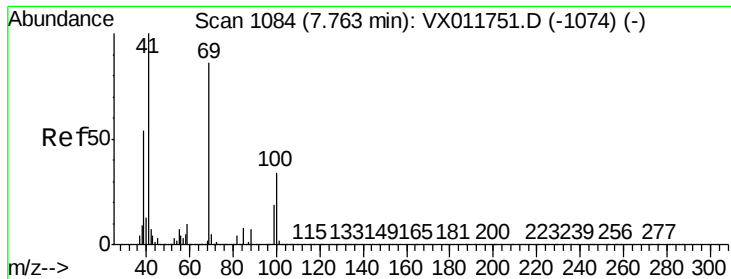
95 78.7 0.0 179.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

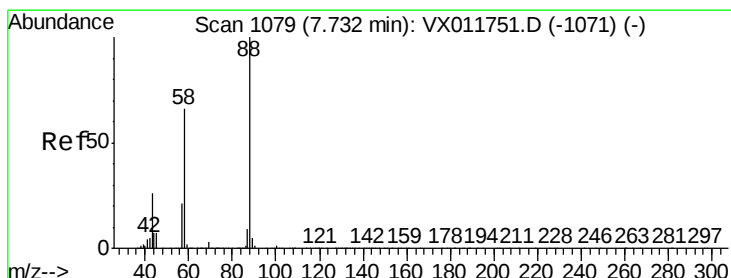
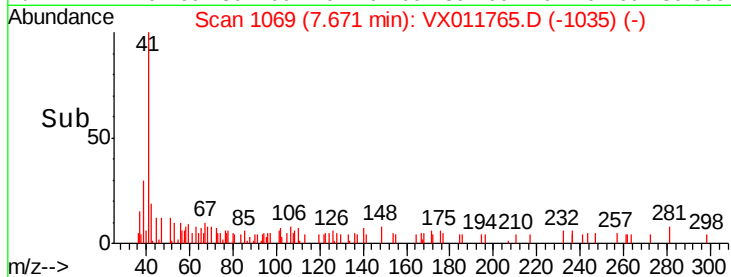
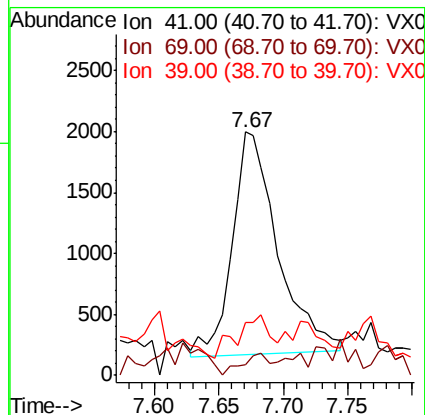
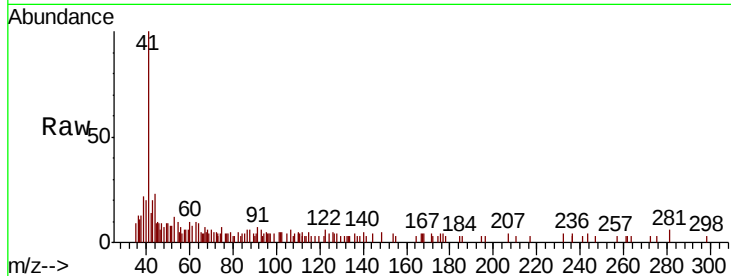




#48
Methyl methacrylate
Concen: 1.119 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

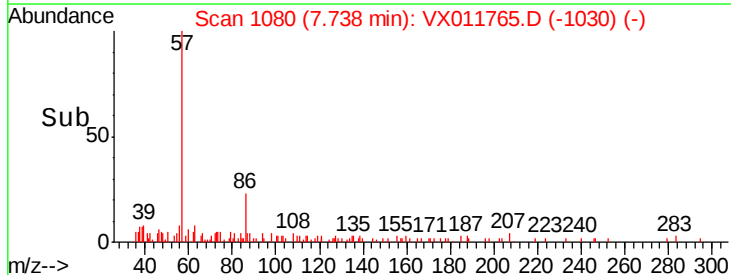
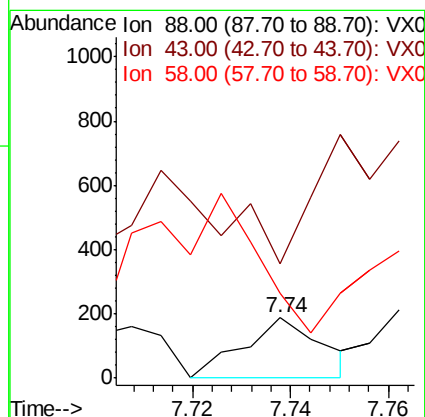
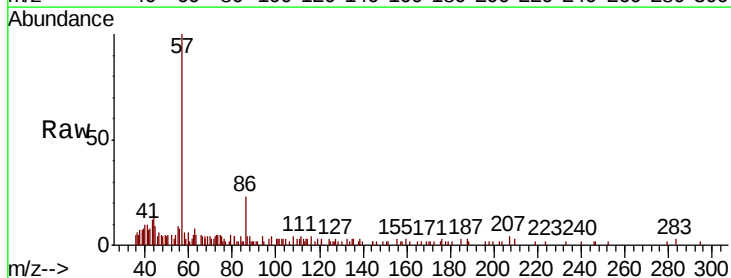
Instrument :
MSVOA_X
ClientSampled :
T4-E-(0)

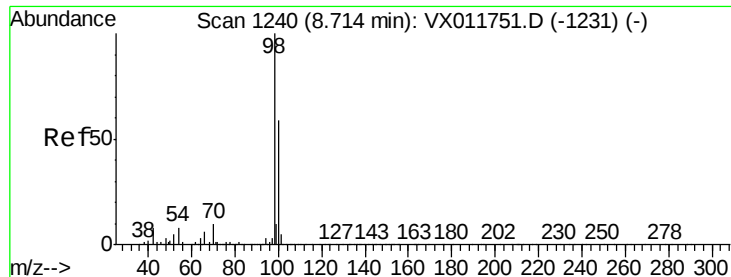
Tgt Ion: 41 Resp: 4496
Ion Ratio Lower Upper
41 100
69 6.4 69.4 104.2#
39 0.0 43.6 65.4#



#49
1,4-Dioxane
Concen: 1.868 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Tgt Ion: 88 Resp: 208
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 0.0 51.4 77.2#





#50

Toluene-d8

Concen: 50.727 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

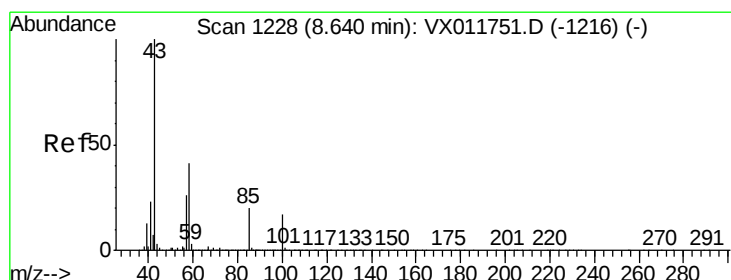
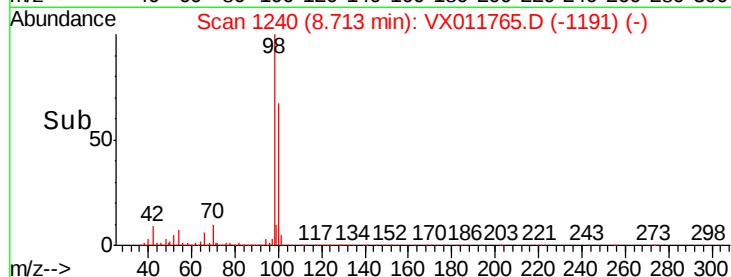
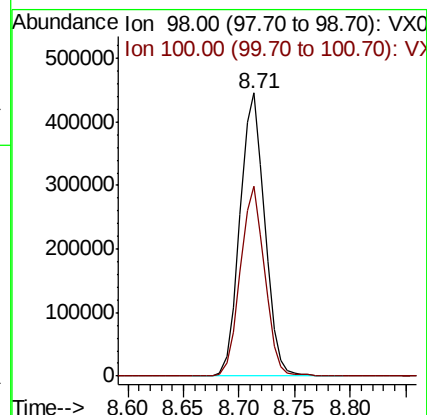
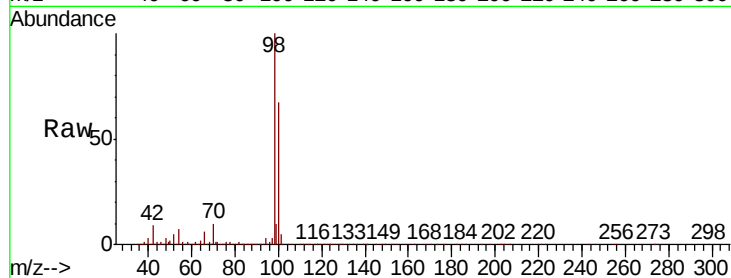
T4-E-(0)

Tgt Ion: 98 Resp: 687961

Ion Ratio Lower Upper

98 100

100 66.2 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 10.639 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011765.D

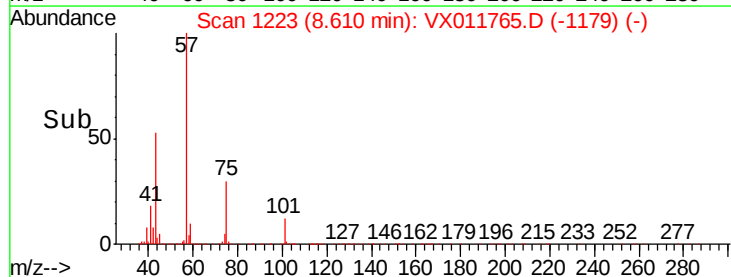
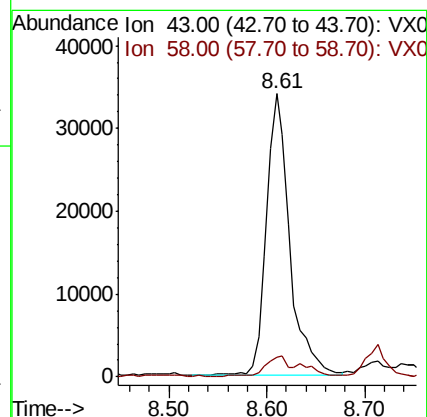
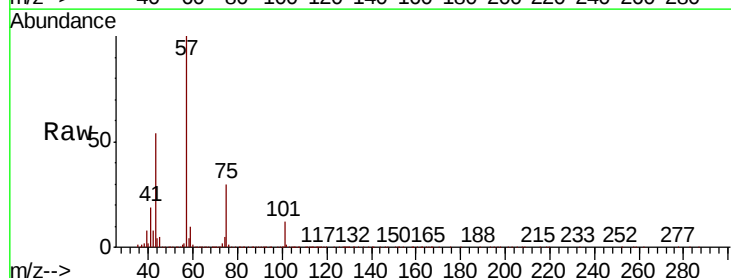
Acq: 22 Aug 2019 16:32

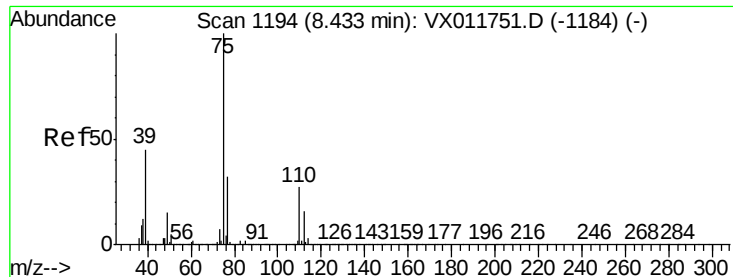
Tgt Ion: 43 Resp: 56614

Ion Ratio Lower Upper

43 100

58 6.4 31.8 47.6#



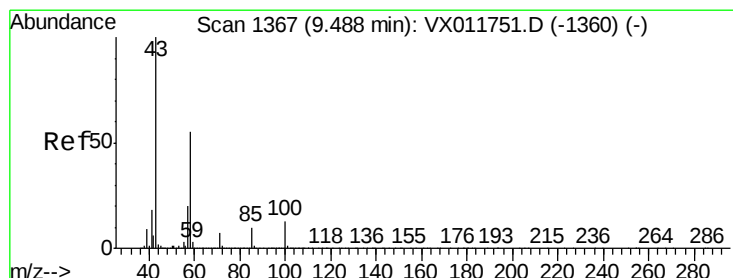
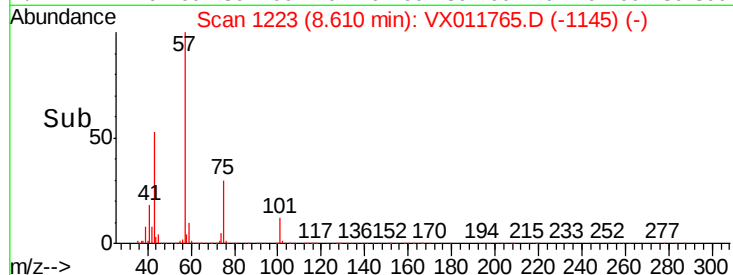
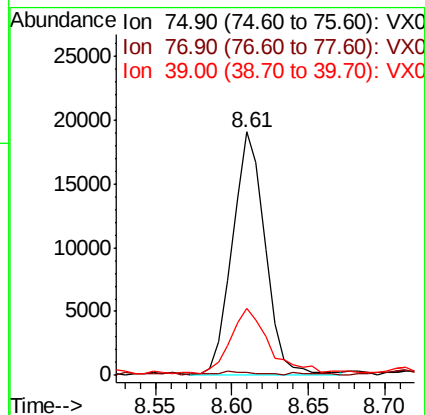
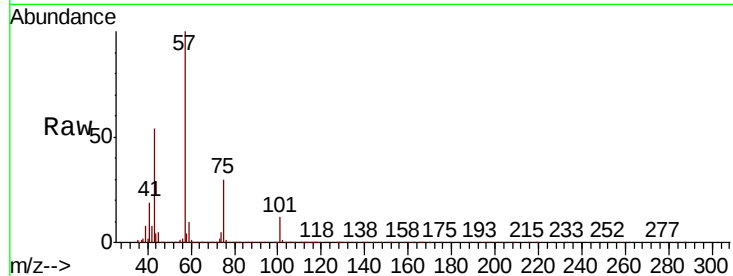


#54

cis-1,3-Dichloropropene
Concen: 5.042 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. 0.18 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Instrument :
MSVOA_X
ClientSampleId :
T4-E-(0)

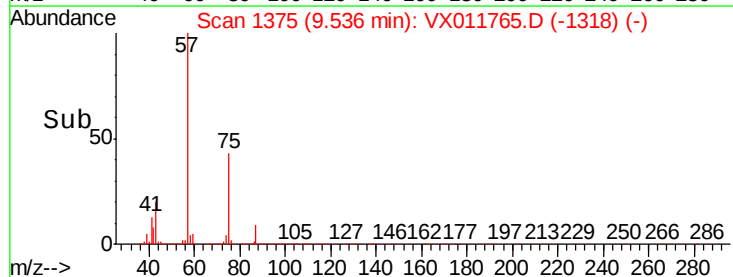
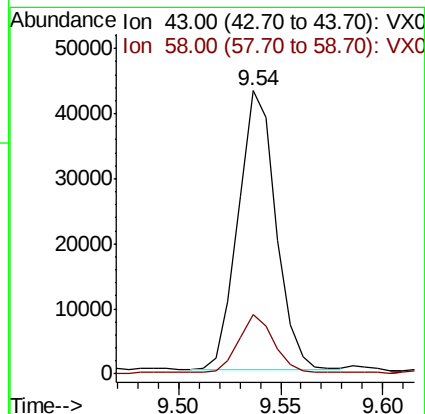
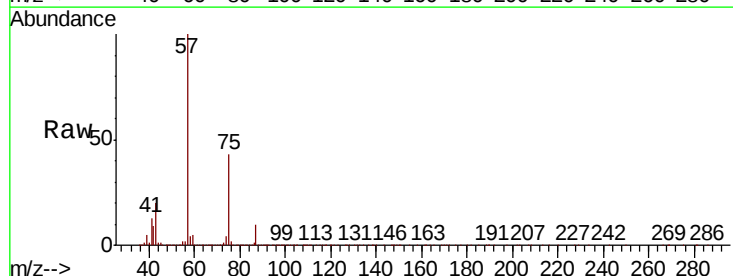
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	25.4	38.2#
39	26.3	36.2	54.4#

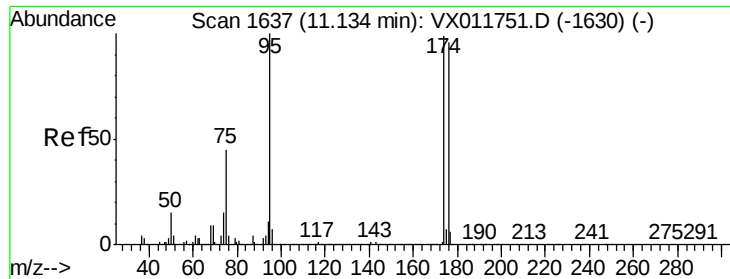


#59

2-Hexanone
Concen: 13.466 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	20.7	27.7	83.1#

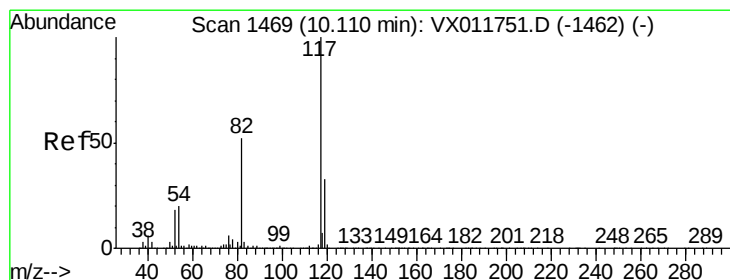
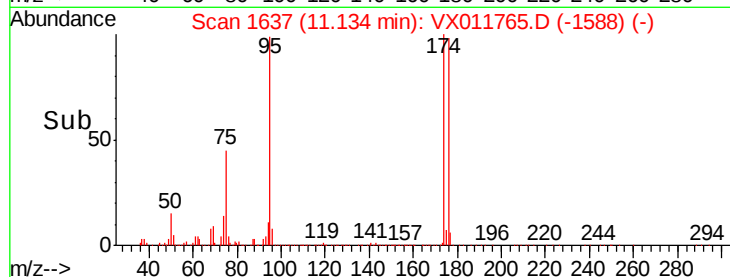
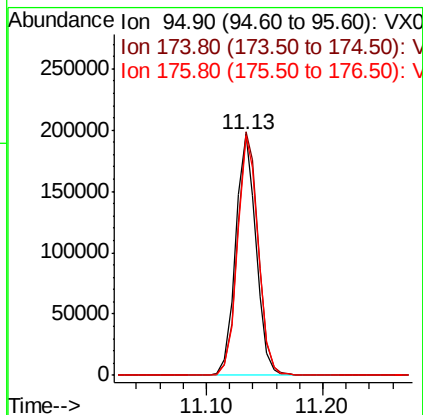
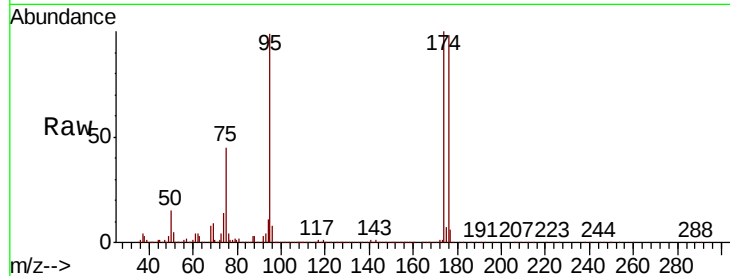




#62
4-Bromofluorobenzene
Concen: 44.768 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

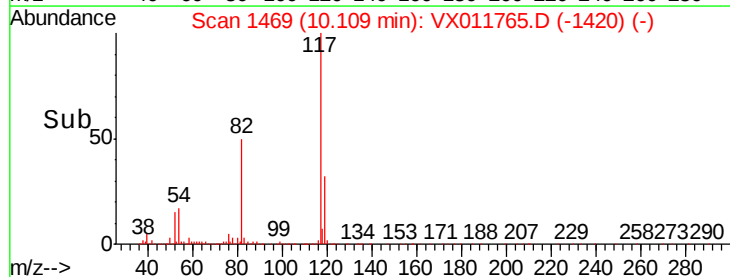
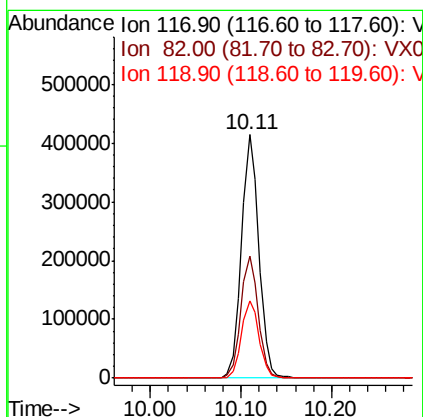
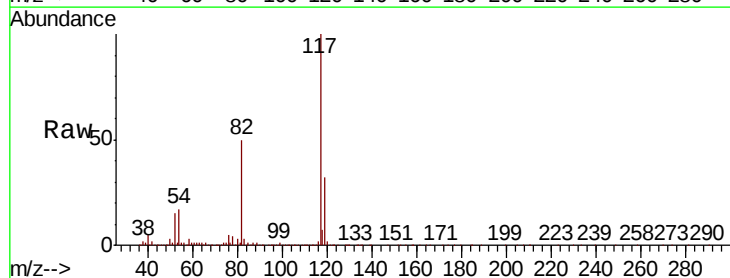
Instrument :
MSVOA_X
ClientSampleId :
T4-E-(0)

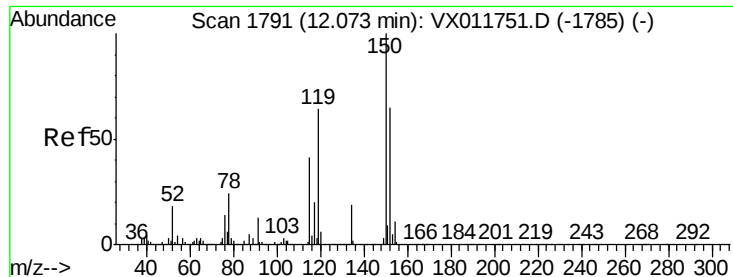
Tgt Ion	Resp	Lower	Upper
95	239976		
174	103.5	0.0	197.4
176	100.4	0.0	194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Tgt Ion	Resp	Lower	Upper
117	552131		
82	49.9	41.7	62.5
119	31.8	26.2	39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011765.D

Acq: 22 Aug 2019 16:32

Instrument :

MSVOA_X

ClientSampleId :

T4-E-(0)

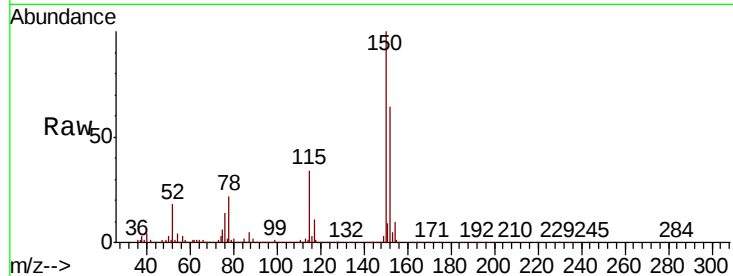
Tgt Ion:152 Resp: 263389

Ion Ratio Lower Upper

152 100

115 52.5 37.3 111.8

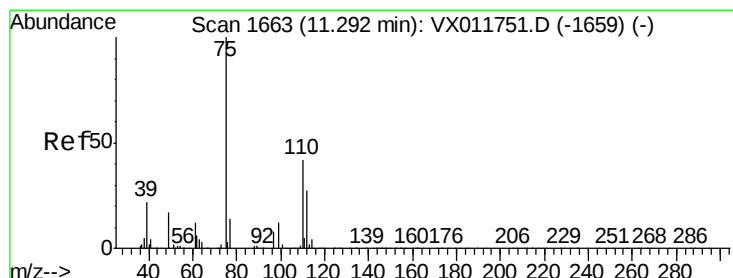
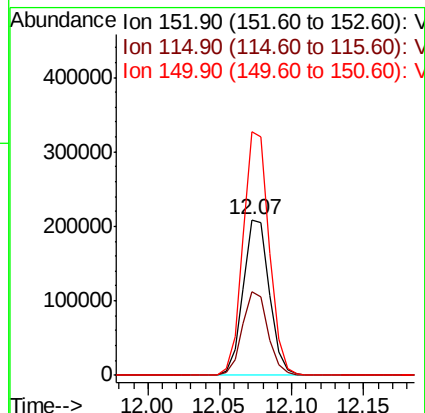
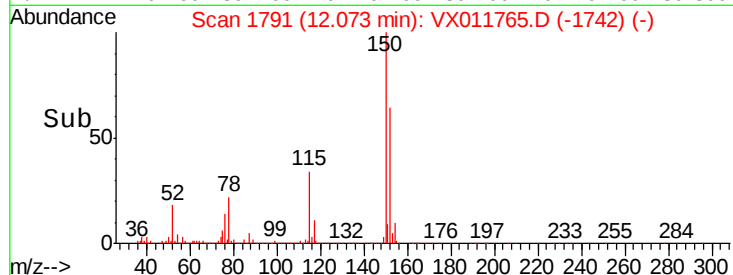
150 155.7 0.0 343.0



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: 23.550 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011765.D

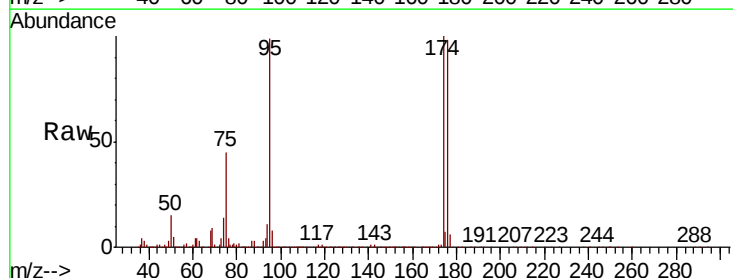
Acq: 22 Aug 2019 16:32

Tgt Ion: 75 Resp: 108840

Ion Ratio Lower Upper

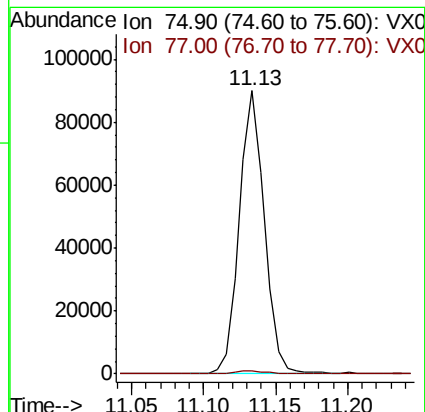
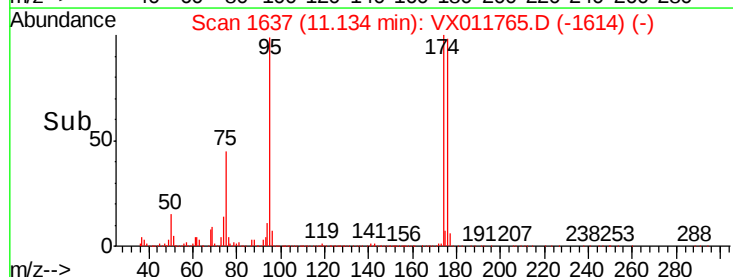
75 100

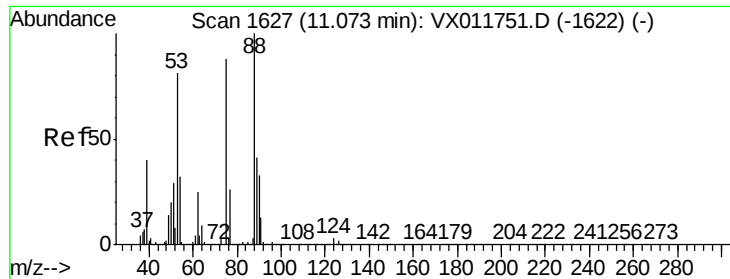
77 1.6 21.1 63.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

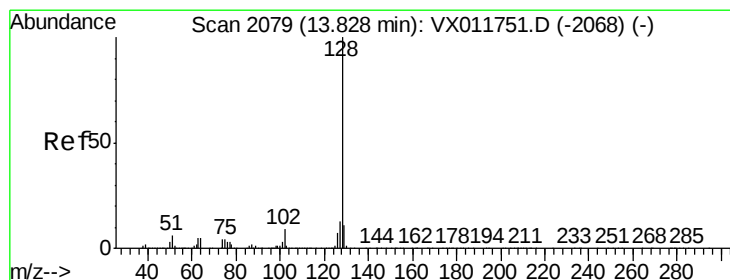
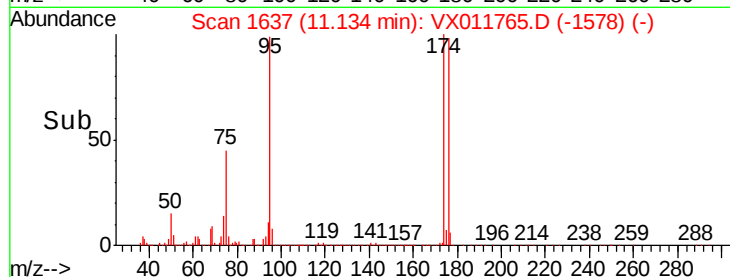
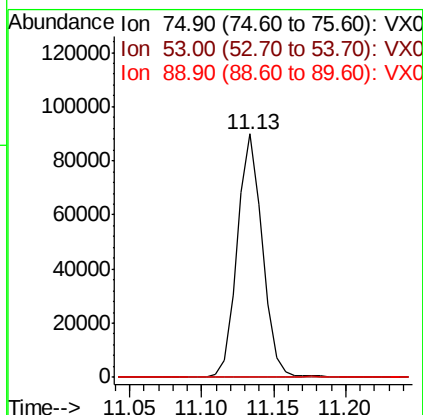
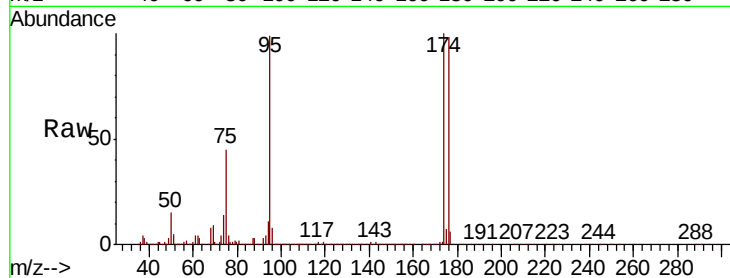




#81
trans-1,4-Dichloro-2-butene
Concen: 71.022 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Instrument :
MSVOA_X
ClientSampleId :
T4-E-(0)

Tgt Ion: 75 Resp: 108840
Ion Ratio Lower Upper
75 100
53 0.5 77.1 115.7#
89 0.2 38.5 57.7#



#95
Naphthalene
Concen: 2.167 ug/l
RT: 13.83 min Scan# 2079
Delta R.T. -0.00 min
Lab File: VX011765.D
Acq: 22 Aug 2019 16:32

Tgt Ion: 128 Resp: 35688
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 12.1 8.7 13.1

