

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051385.D
 Acq On : 21 Sep 2018 21:54
 Operator : MD\SY
 Sample : PB113086ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 21 23:05:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 04:23:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	737386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1105362	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	930514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	359145	50.00	ug/l	0.00

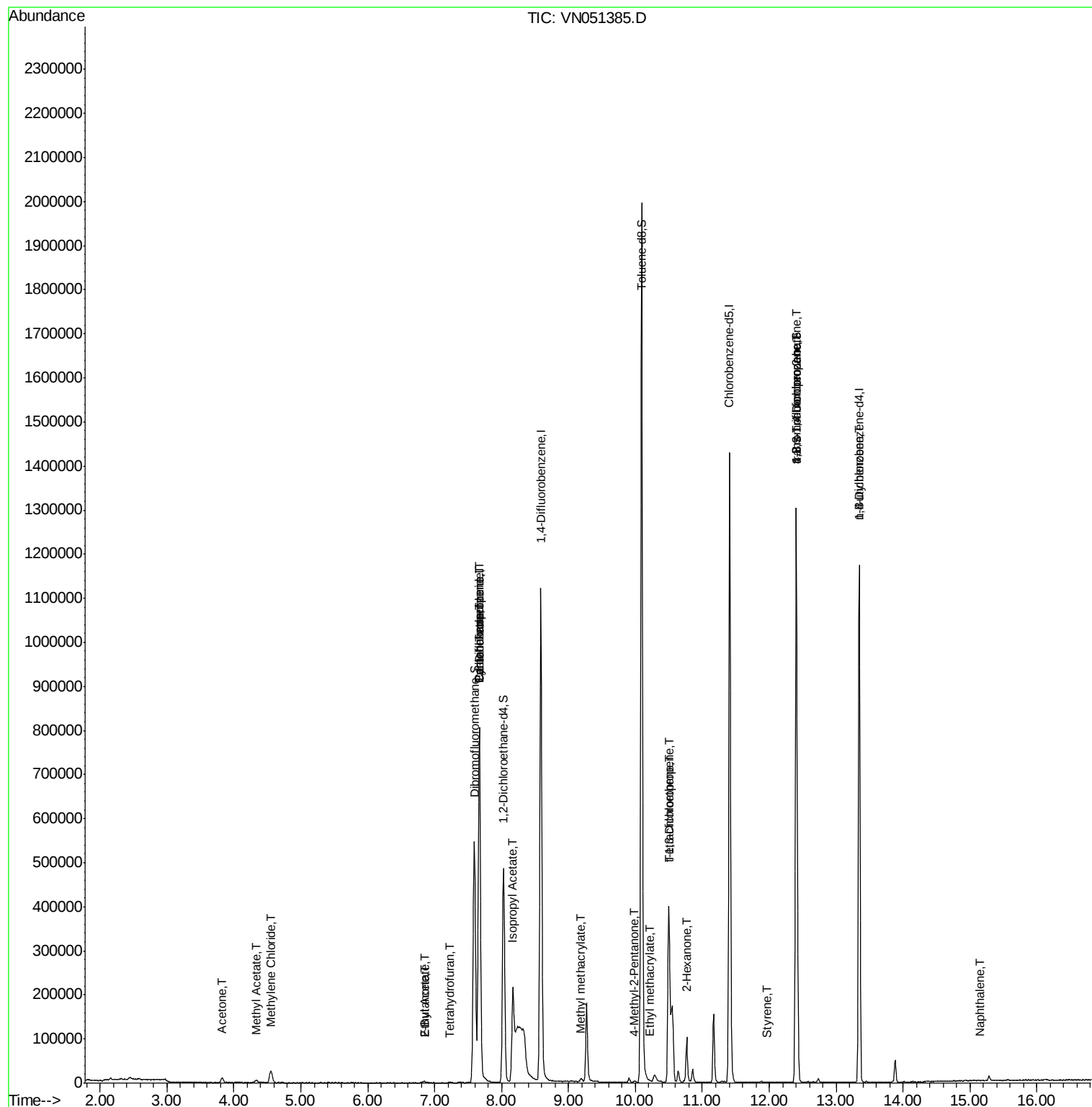
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	423099	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	
35) Dibromofluoromethane	7.59	113	416592	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
50) Toluene-d8	10.09	98	1470789	42.83	ug/l	0.00
Spiked Amount			Recovery	=	85.66%	
62) 4-Bromofluorobenzene	12.40	95	406744	36.41	ug/l	0.00
Spiked Amount			Recovery	=	72.82%	

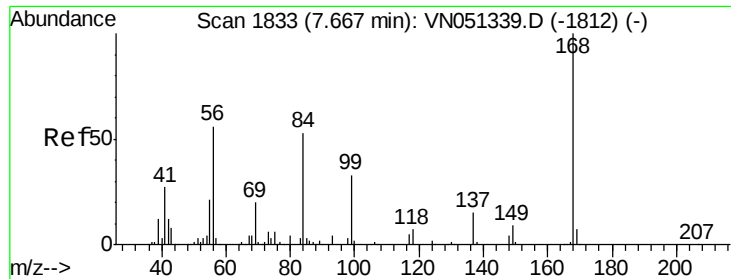
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	924	Below Cal		98
16) Acetone	3.82	43	18959	10.701	ug/l	98
18) Methyl Acetate	4.33	43	11964	1.494	ug/l	94
20) Methylene Chloride	4.56	84	22133	2.694	ug/l	97
25) 2-Butanone	6.86	43	4019	1.760	ug/l	90
29) Tetrahydrofuran	7.23	42	1000	0.691	ug/l #	52
31) Cyclohexane	7.67	56	11129	0.496	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43589	3.855	ug/l #	47
37) Ethyl Acetate	6.86	43	4019	0.718	ug/l #	64
38) Carbon Tetrachloride	7.67	117	61589	5.035	ug/l #	17
43) Isopropyl Acetate	8.17	43	261458	26.671	ug/l #	92
48) Methyl methacrylate	9.18	41	5425	1.086	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1897	0.360	ug/l #	82
53) t-1,3-Dichloropropene	10.50	75	5544	0.504	ug/l #	43
56) Ethyl methacrylate	10.23	69	1510	1.731	ug/l #	87
59) 2-Hexanone	10.77	43	13661	3.843	ug/l #	57
64) Tetrachloroethene	10.49	164	1725	0.213	ug/l #	20
70) Styrene	11.97	104	335	0.908	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.43	83	30	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	188102	39.101	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	188102	117.425	ug/l #	14
89) n-Butylbenzene	13.35	91	563	1.457	ug/l #	36
95) Naphthalene	15.15	128	63	5.336	ug/l #	69

(#) = 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: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051385.D

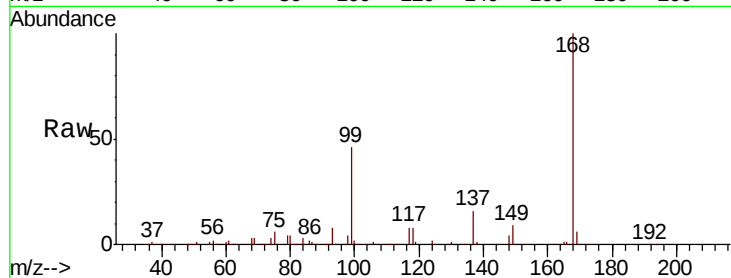
Acq: 21 Sep 2018 21:54

Tot Ion:168 Resp: 737386

Ion Ratio Lower Upper

168 100

99 45.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

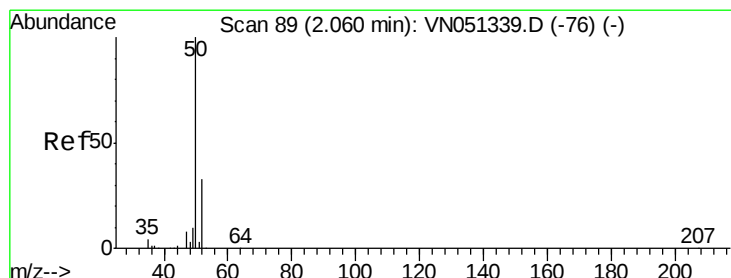
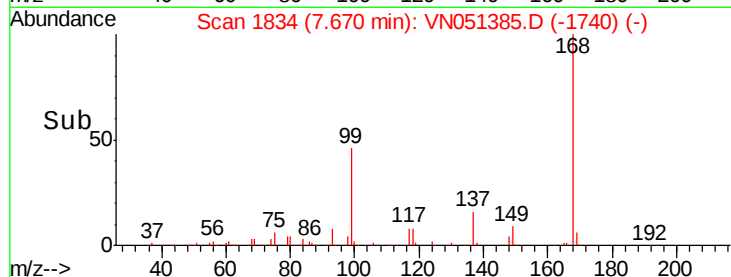
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051385.D

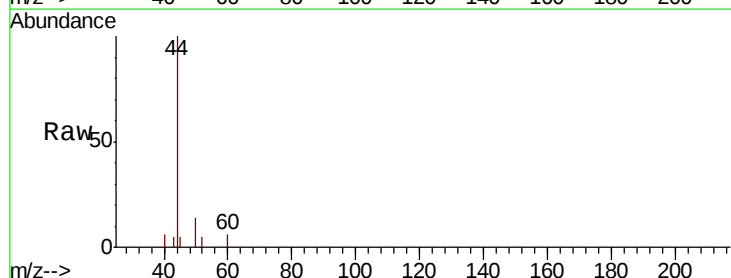
Acq: 21 Sep 2018 21:54

Tgt Ion: 50 Resp: 924

Ion Ratio Lower Upper

50 100

52 34.3 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN051339.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051339.D (-76) (-)

2.06

800

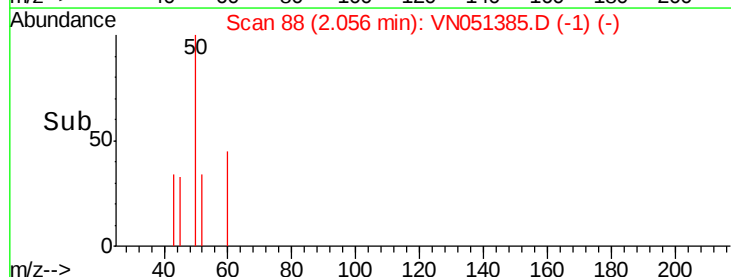
600

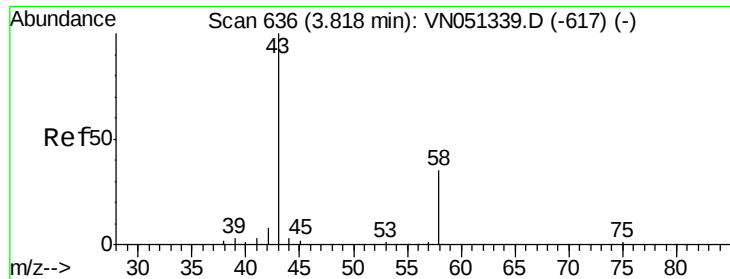
400

200

0

Time-->





#16

Acetone

Concen: 10.701 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051385.D

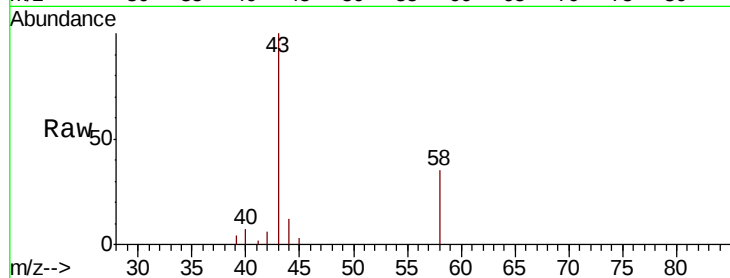
Acq: 21 Sep 2018 21:54

Tot Ion: 43 Resp: 18959

Ion Ratio Lower Upper

43 100

58 34.5 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-617) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-617) (-)

8000

6000

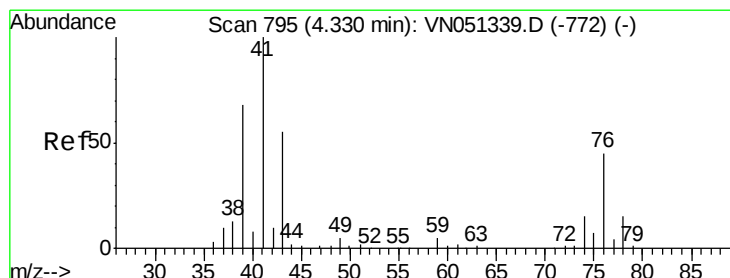
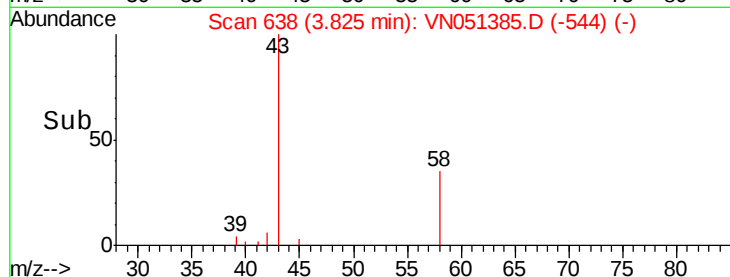
4000

2000

0

3.75 3.80 3.85 3.90

Time-->



#18

Methyl Acetate

Concen: 1.494 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051385.D

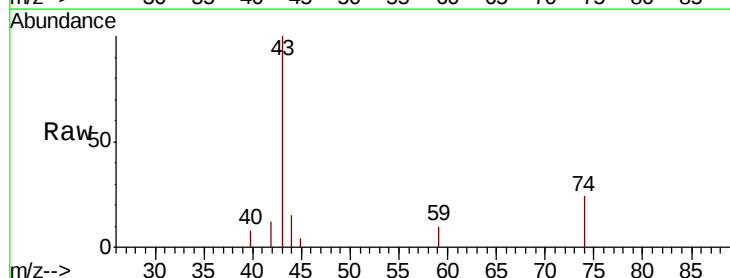
Acq: 21 Sep 2018 21:54

Tgt Ion: 43 Resp: 11964

Ion Ratio Lower Upper

43 100

74 24.2 21.7 32.5



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-772) (-)

Ion 74.00 (73.70 to 74.70): VN051339.D (-772) (-)

4000

3000

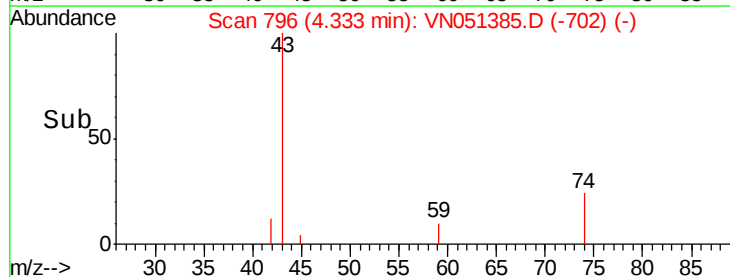
2000

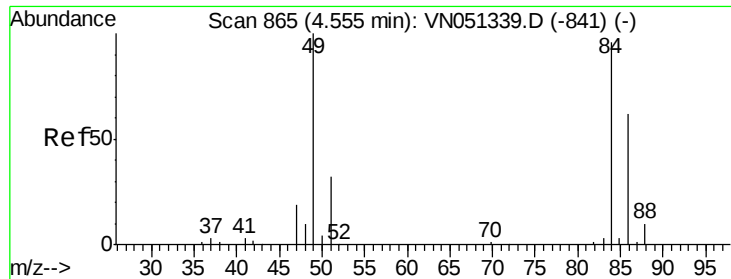
1000

0

4.25 4.30 4.35 4.40

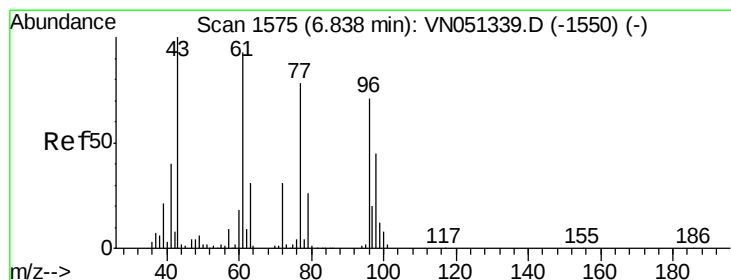
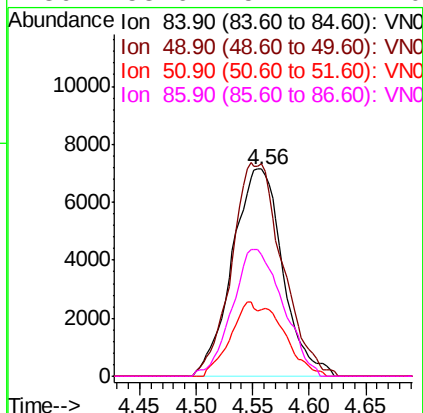
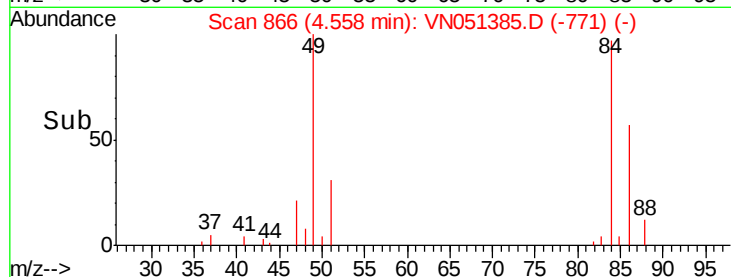
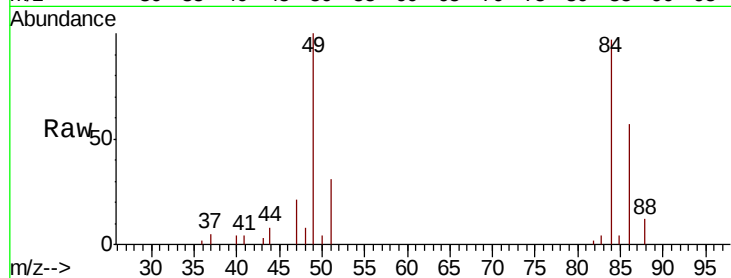
Time-->





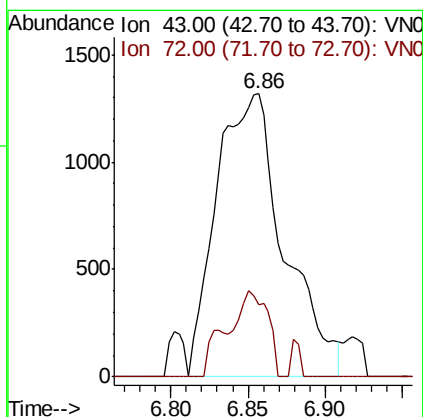
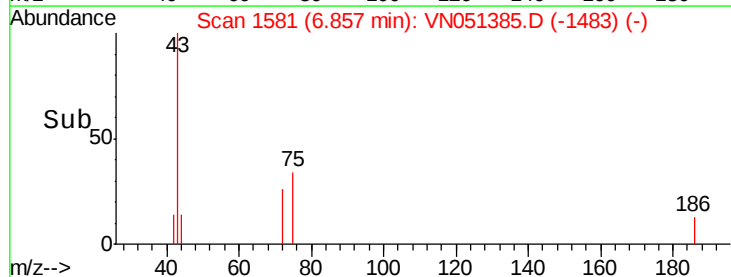
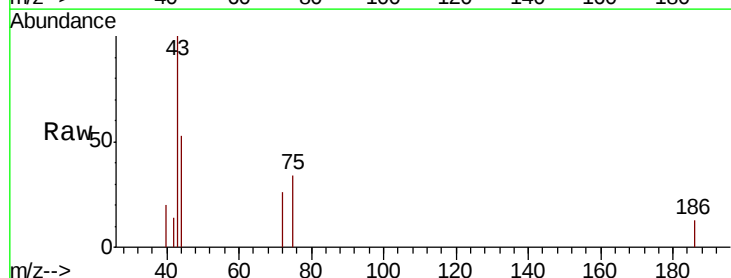
#20
Methvlene Chloride
Concen: 2.694 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

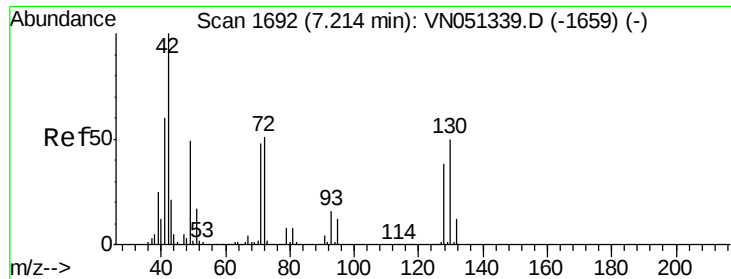
Tot Ion:	84	Resp:	22133
Ion	Ratio	Lower	Upper
84	100		
49	102.9	83.2	124.8
51	32.2	26.4	39.6
86	58.6	51.4	77.0



#25
2-Butanone
Concen: 1.760 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tgt Ion:	43	Resp:	4019
Ion	Ratio	Lower	Upper
43	100		
72	25.6	24.7	37.1





#29

Tetrahydrofuran

Concen: 0.691 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

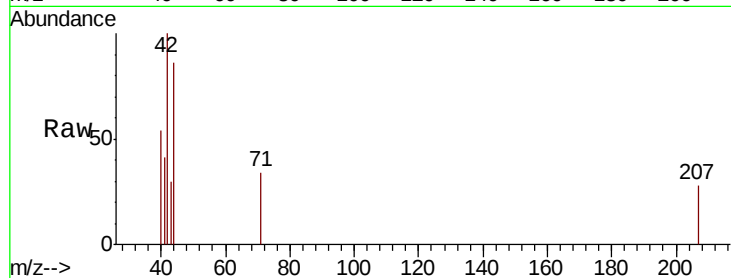
Tot Ion: 42 Resp: 1000

Ion Ratio Lower Upper

42 100

72 6.6 39.0 58.4#

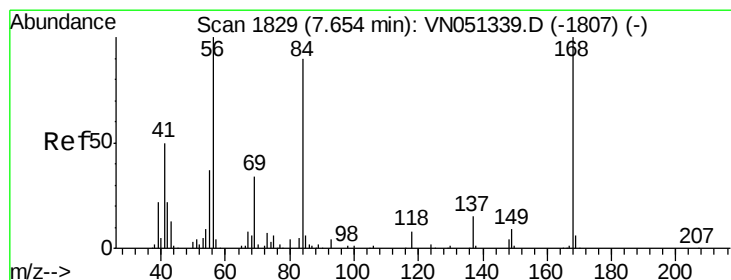
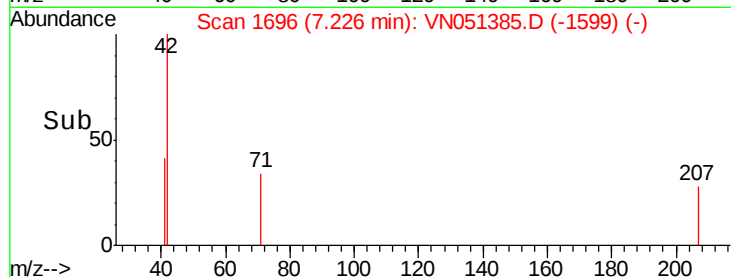
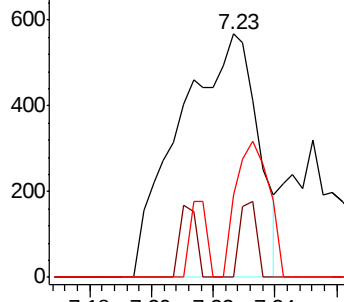
71 23.7 36.5 54.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.496 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

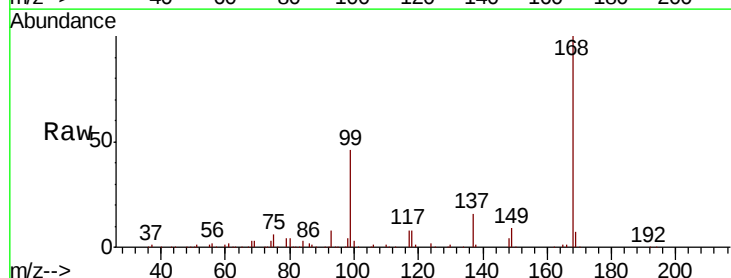
Tgt Ion: 56 Resp: 11129

Ion Ratio Lower Upper

56 100

69 193.5 27.3 40.9#

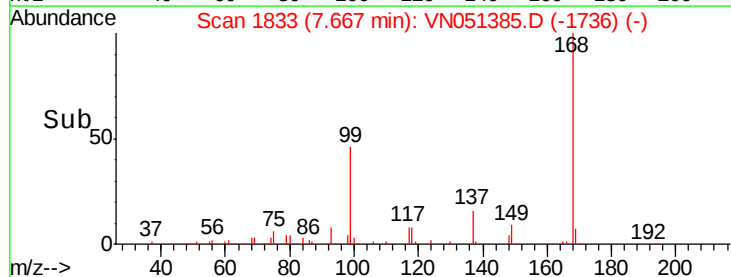
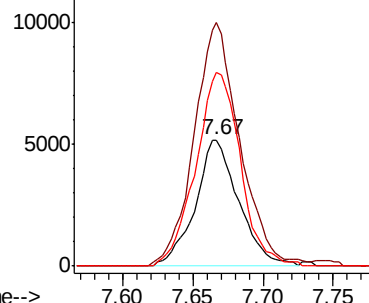
84 154.2 72.2 108.2#

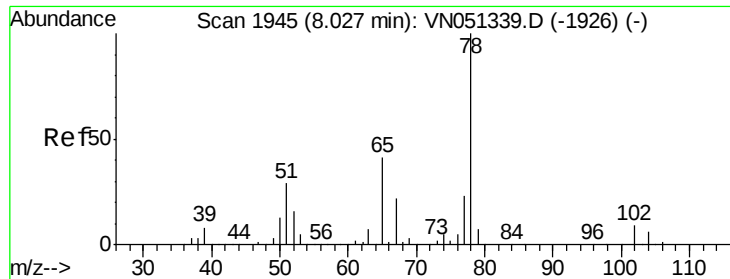


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.939 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051385.D

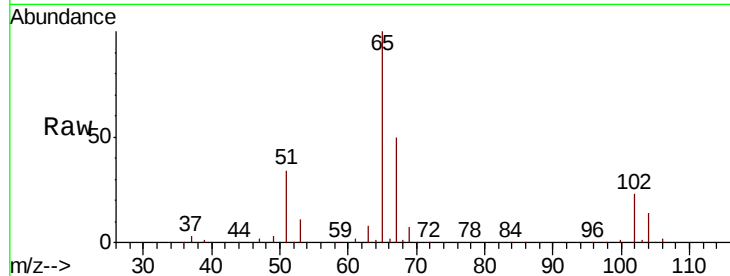
Acq: 21 Sep 2018 21:54

Tot Ion: 65 Resp: 423099

Ion Ratio Lower Upper

65 100

67 52.5 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN051339.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051339.D (-1926) (-)

8.03

200000

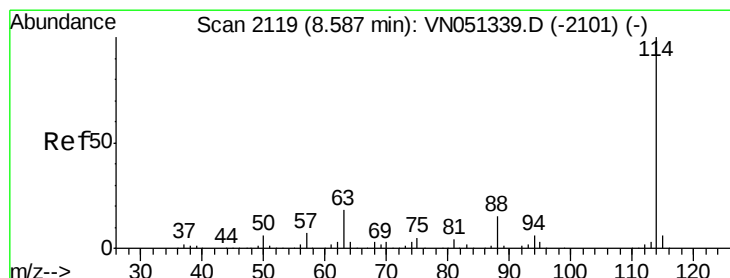
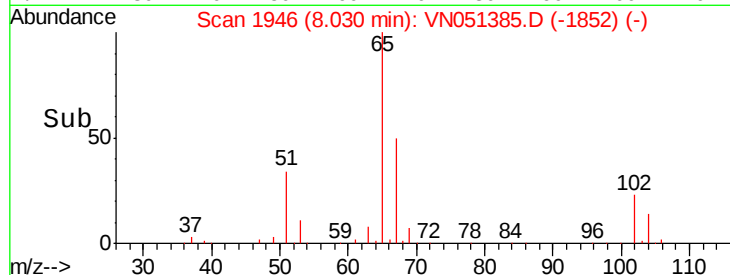
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

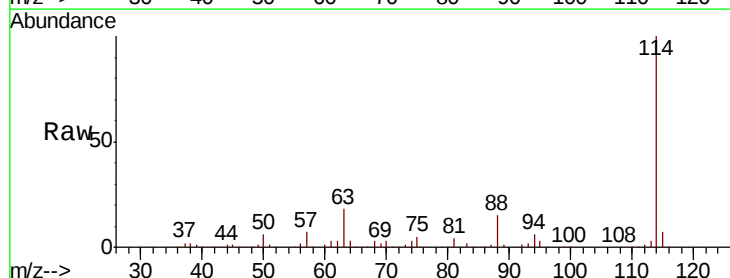
Tgt Ion: 114 Resp: 1105362

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.6

88 15.2 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): VN051339.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051339.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051339.D (-2101) (-)

8.59

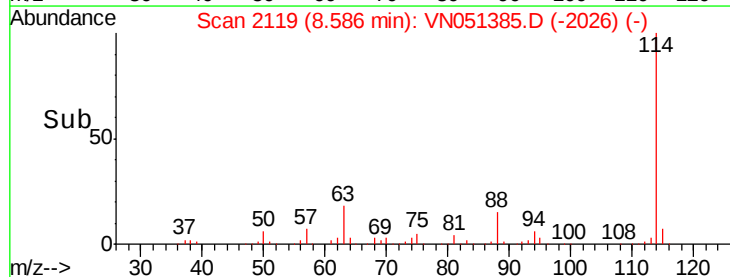
600000

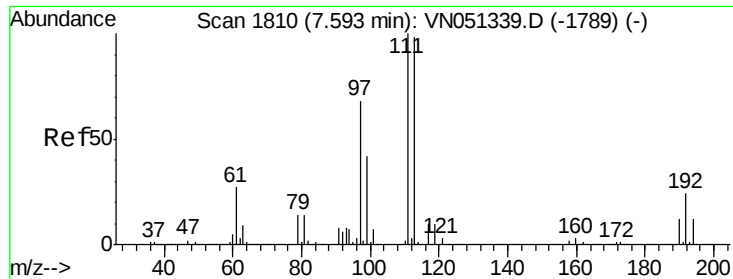
400000

200000

0

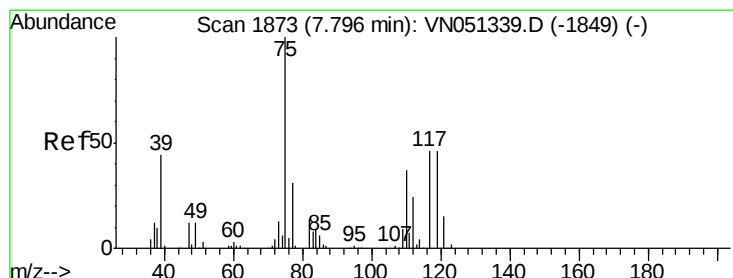
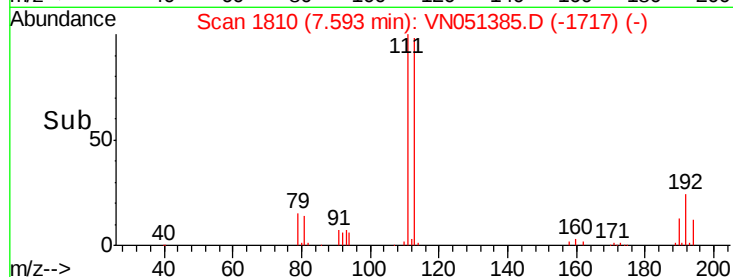
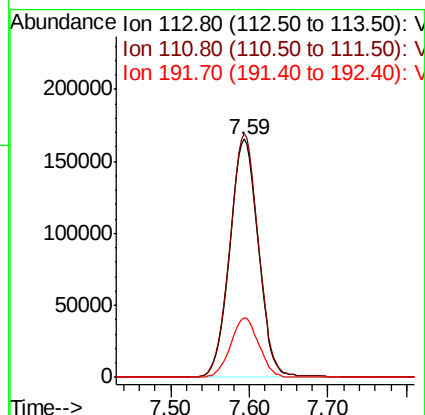
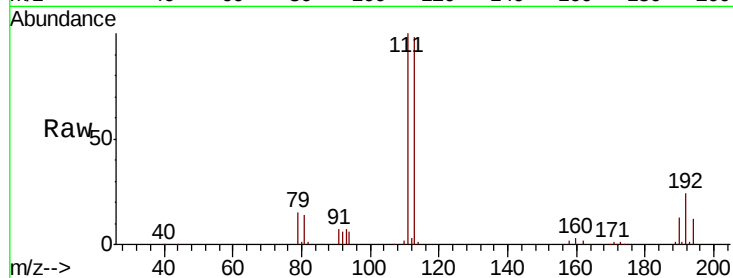
Time--> 8.50 8.60 8.70





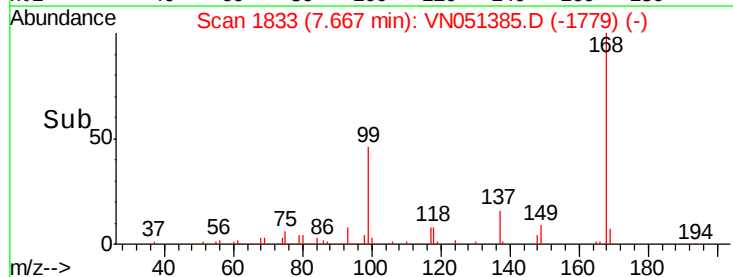
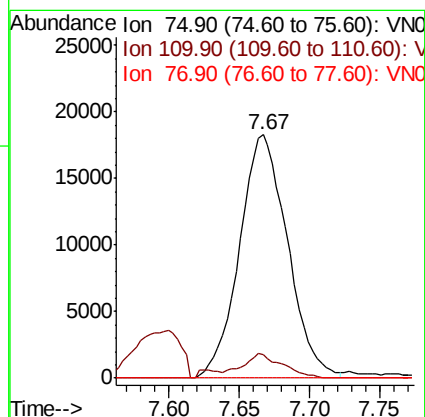
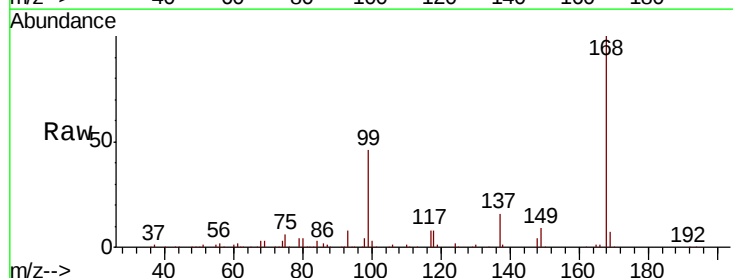
#35
 Dibromofluoromethane
 Concen: 46.636 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051385.D
 Acq: 21 Sep 2018 21:54

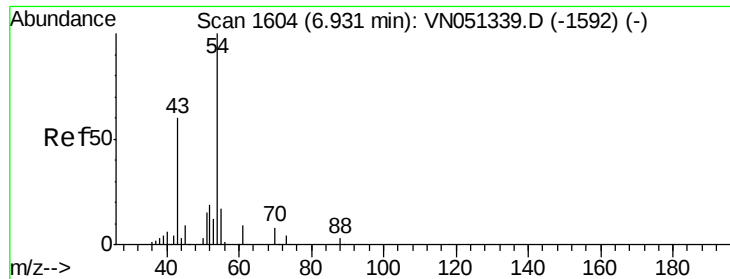
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.9	122.9
192	24.6	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.855 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051385.D
 Acq: 21 Sep 2018 21:54

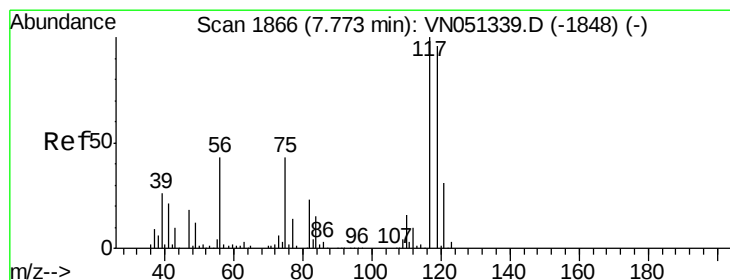
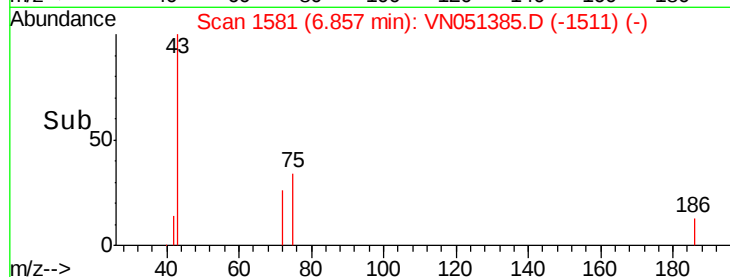
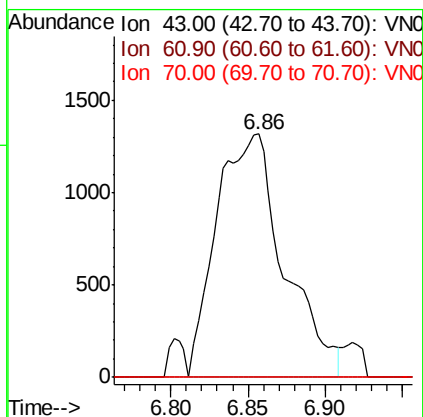
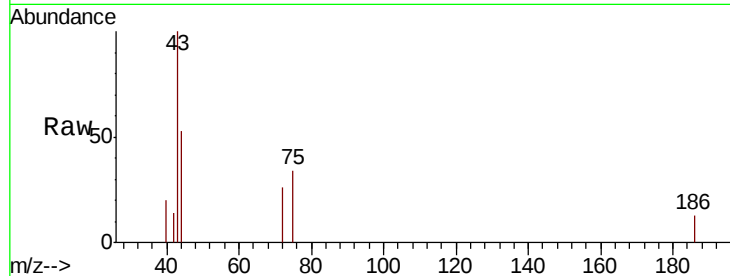
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.9	56.5#
77	0.0	25.4	38.2#





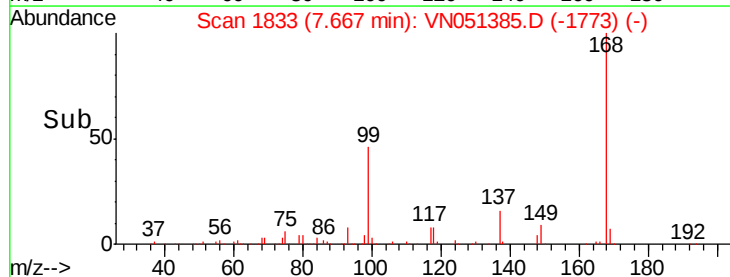
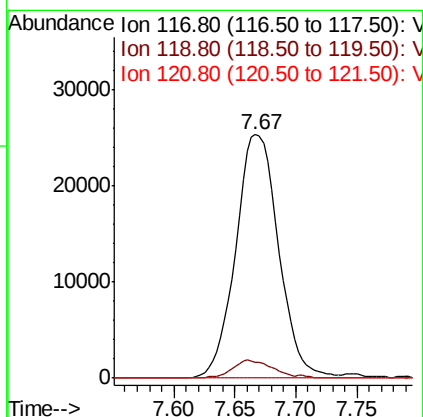
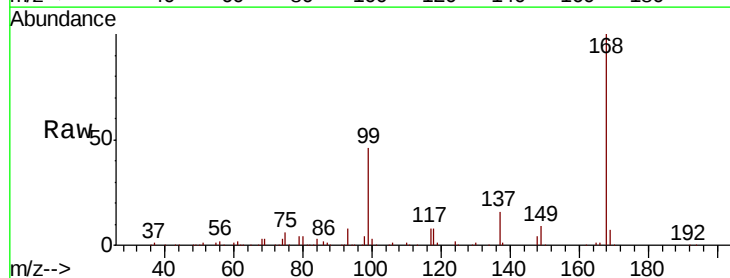
#37
Ethyl Acetate
Concen: 0.718 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. -0.08 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

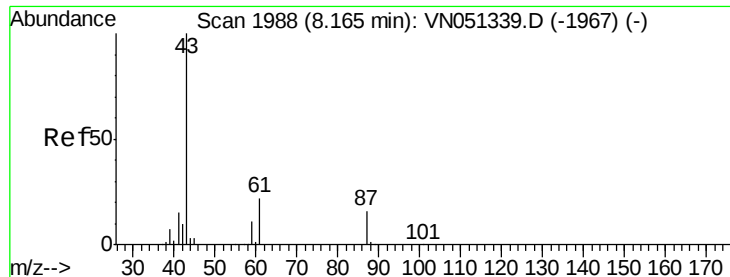
Tot Ion: 43 Resp: 4019
Ion Ratio Lower Upper
43 100
61 0.0 13.6 20.4#
70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 5.035 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tgt Ion: 117 Resp: 61589
Ion Ratio Lower Upper
117 100
119 6.6 77.0 115.4#
121 0.0 25.0 37.4#





#43

Isopropyl Acetate

Concen: 26.671 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

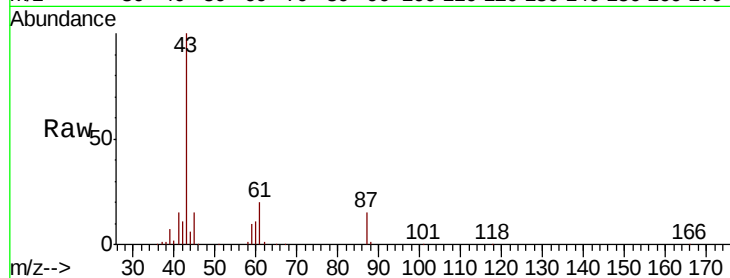
Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

Tot Ion: 43 Resp: 261458

Ion Ratio Lower Upper

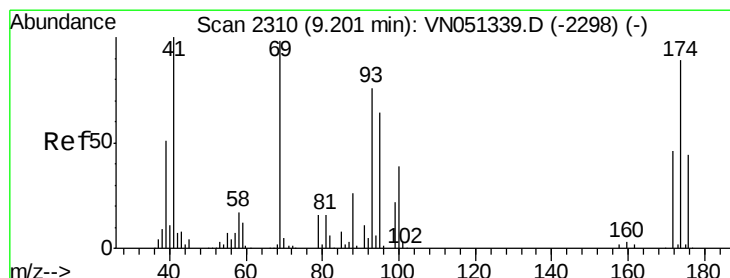
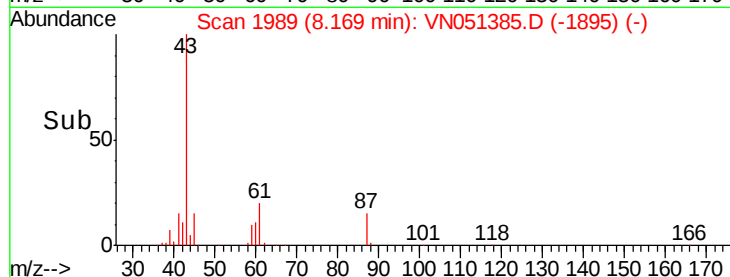
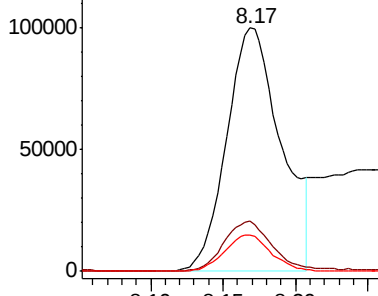
43	100		
61	18.6	18.1	27.1
87	12.7	12.8	19.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.086 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

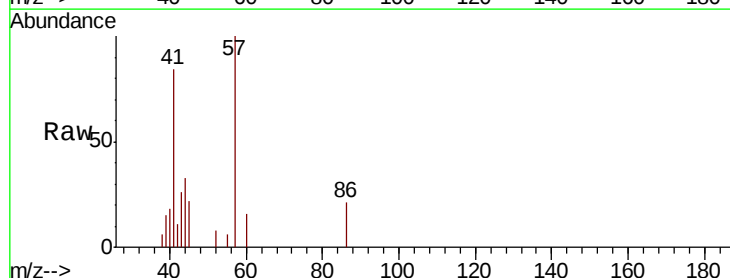
Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

Tgt Ion: 41 Resp: 5425

Ion Ratio Lower Upper

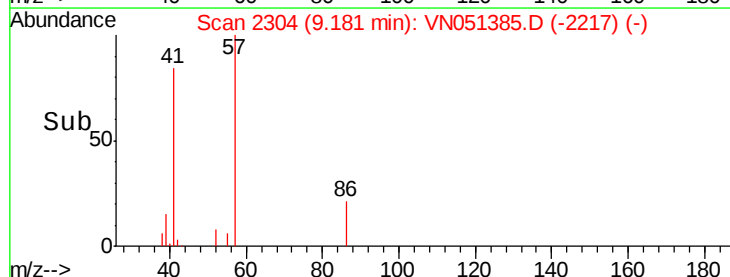
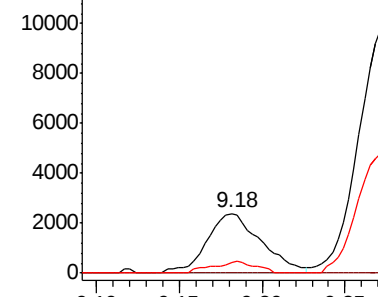
41	100		
69	0.0	79.4	119.0#
39	15.6	43.0	64.6#

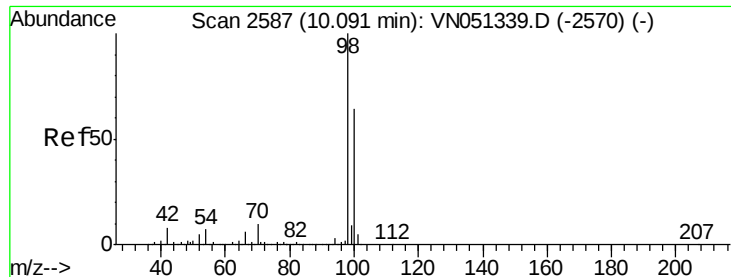


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

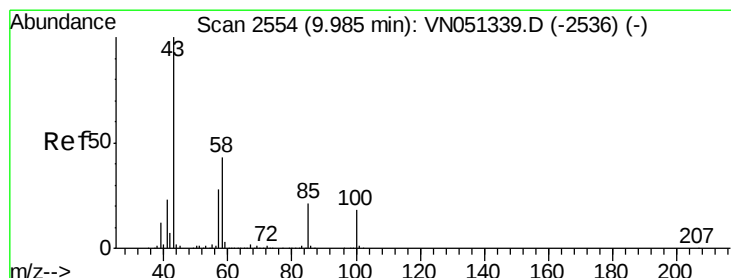
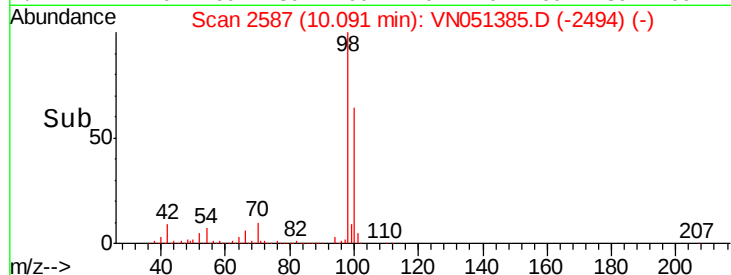
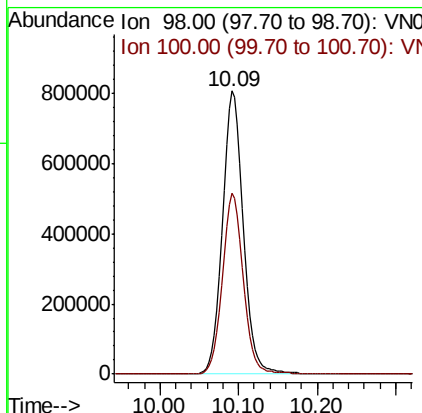
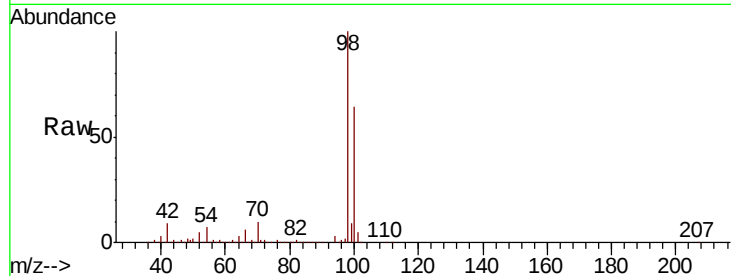
Ion 39.00 (38.70 to 39.70): VN0





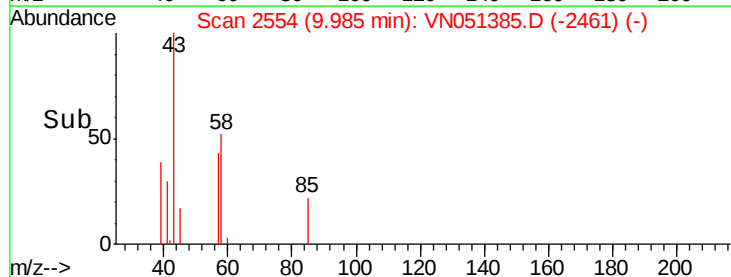
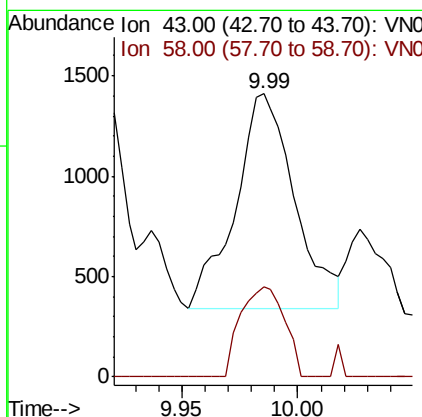
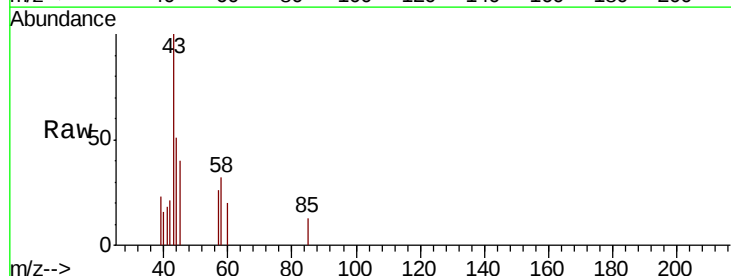
#50
Toluene-d8
Concen: 42.830 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

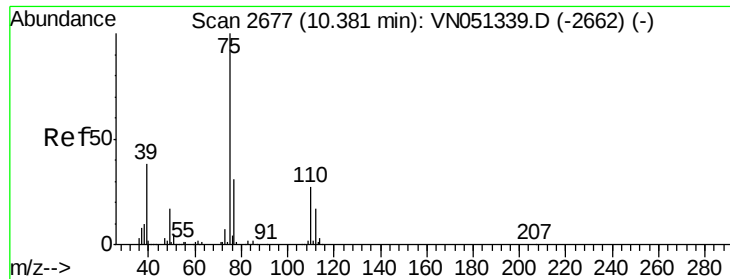
Tot Ion: 98 Resp: 1470789
Ion Ratio Lower Upper
98 100
100 64.1 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.360 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tgt Ion: 43 Resp: 1897
Ion Ratio Lower Upper
43 100
58 31.0 34.2 51.4#





#53

t-1,3-Dichloropropene

Concen: 0.504 ug/l

RT: 10.50 min Scan# 2714

Delta R.T. 0.12 min

Lab File: VN051385.D

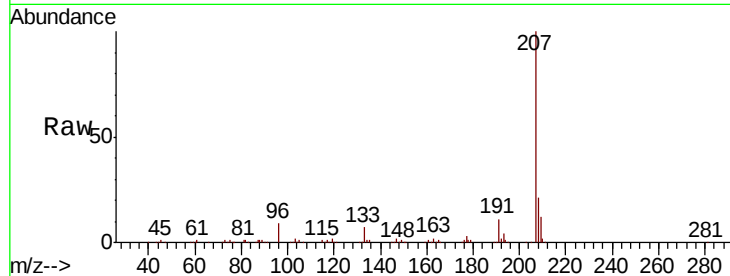
Acq: 21 Sep 2018 21:54

Tot Ion: 75 Resp: 5544

Ion Ratio Lower Upper

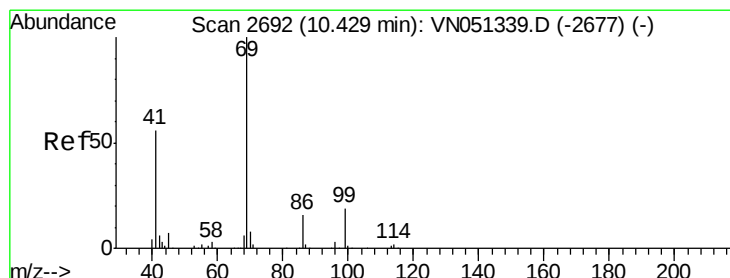
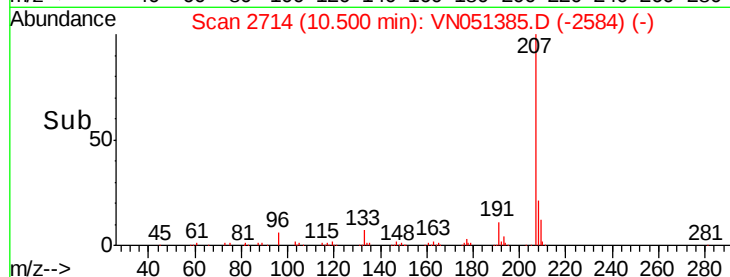
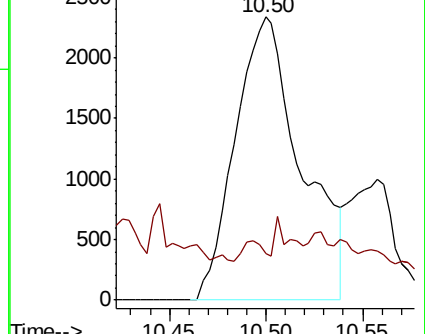
75 100

77 0.0 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#56

Ethyl methacrylate

Concen: 1.731 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

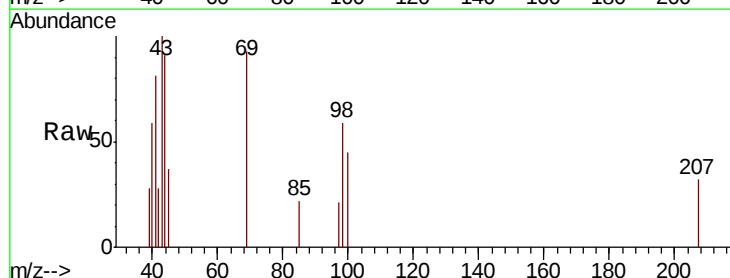
Tgt Ion: 69 Resp: 1510

Ion Ratio Lower Upper

69 100

41 59.6 45.1 67.7

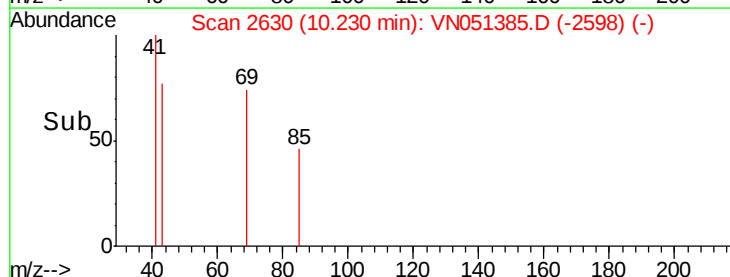
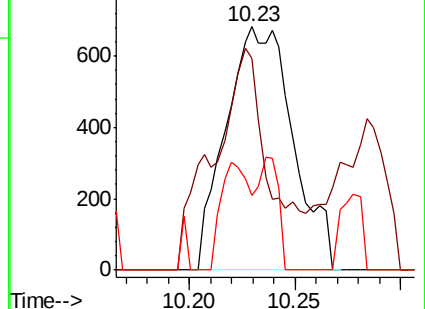
39 14.0 23.4 35.2#

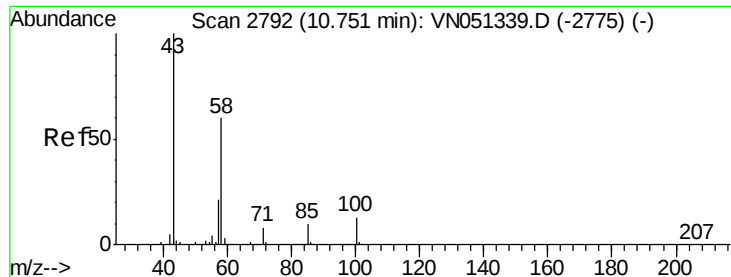


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

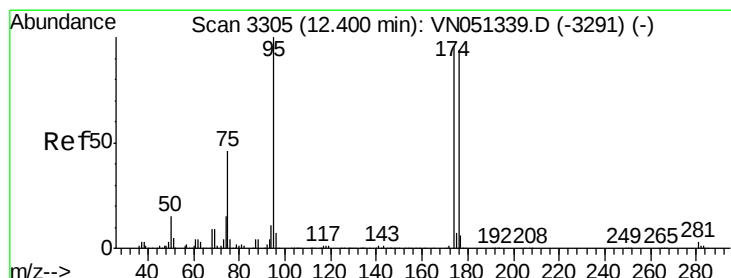
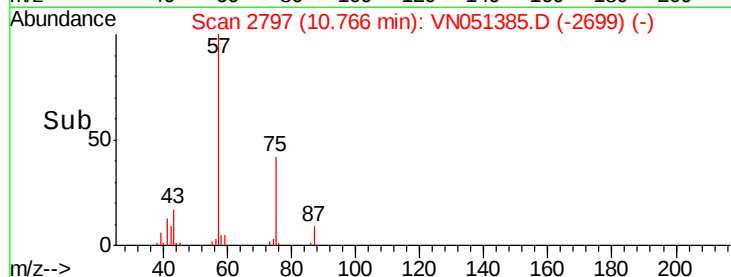
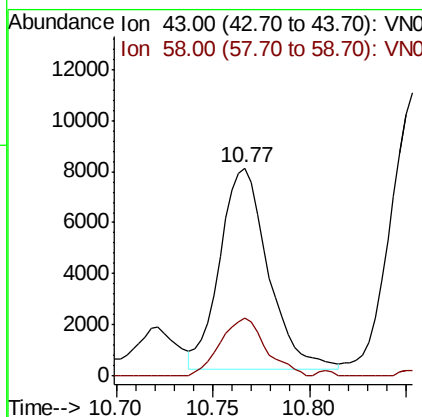
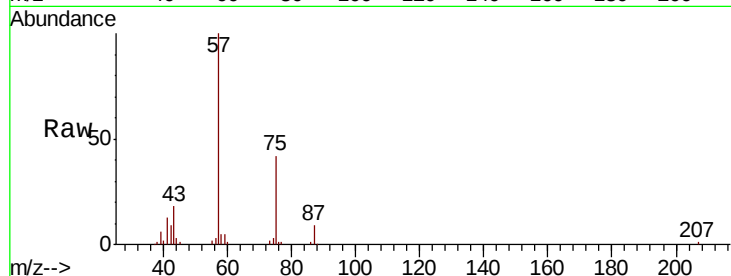
Ion 39.00 (38.70 to 39.70): VN0





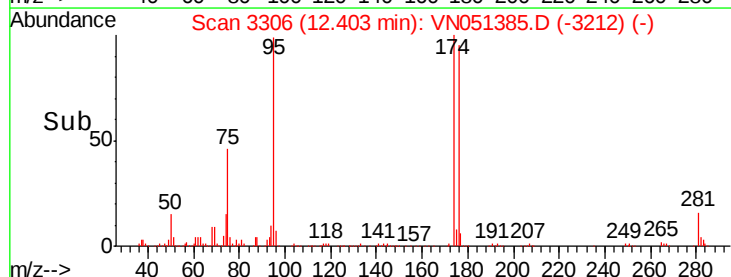
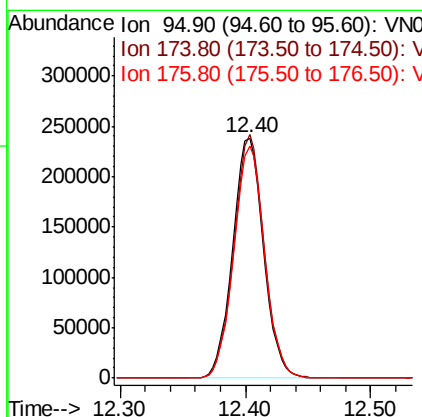
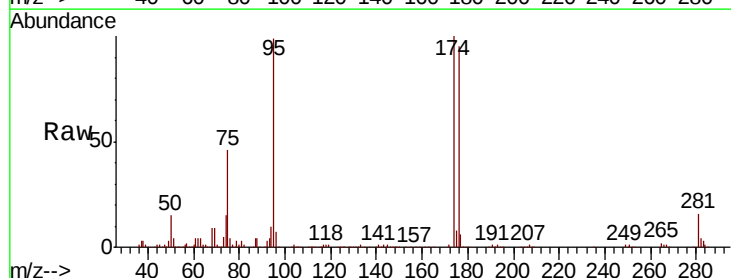
#59
2-Hexanone
Concen: 3.843 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

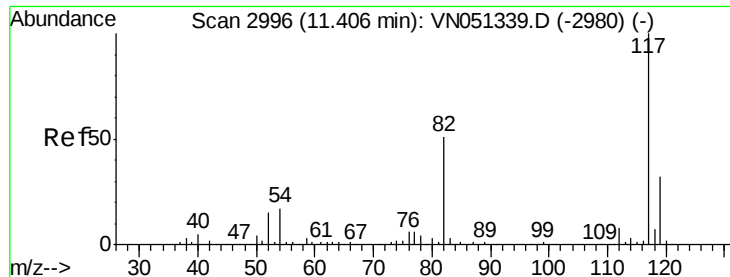
Tot Ion: 43 Resp: 13661
Ion Ratio Lower Upper
43 100
58 27.3 29.9 89.8#



#62
4-Bromofluorobenzene
Concen: 36.408 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

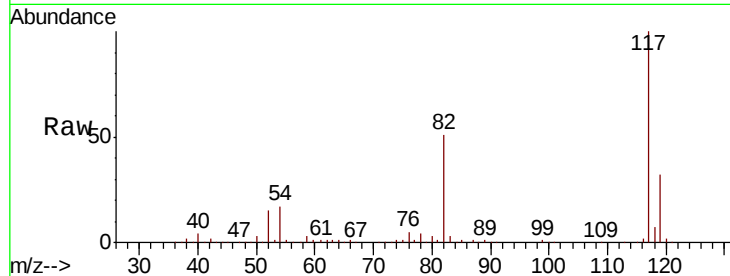
Tgt Ion: 95 Resp: 406744
Ion Ratio Lower Upper
95 100
174 99.5 0.0 194.6
176 96.0 0.0 189.6



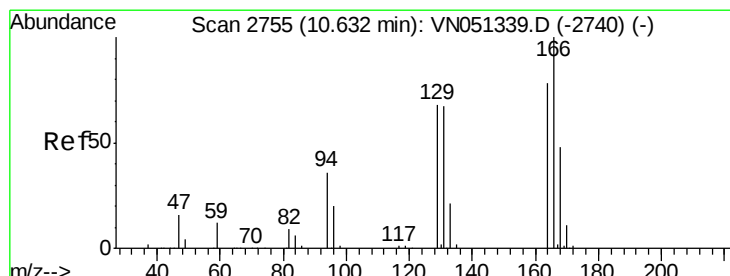
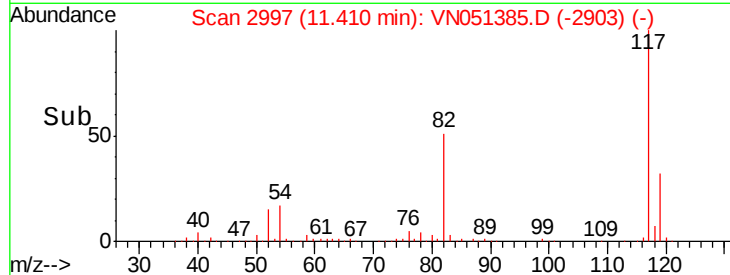
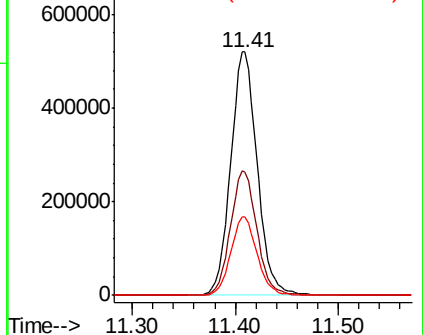


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tot Ion:117 Resp: 930514
Ion Ratio Lower Upper
117 100
82 50.8 40.7 61.1
119 32.0 25.3 37.9

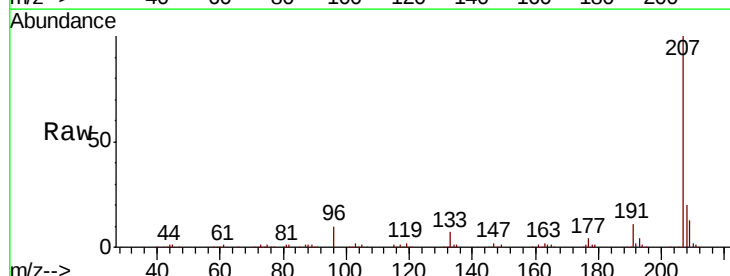


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

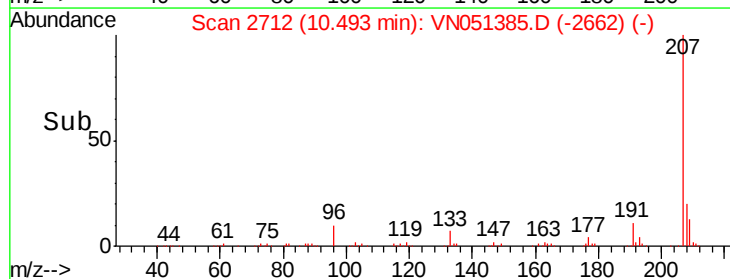
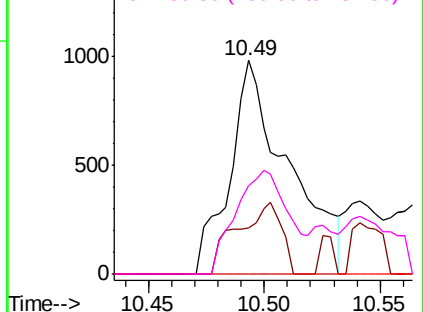


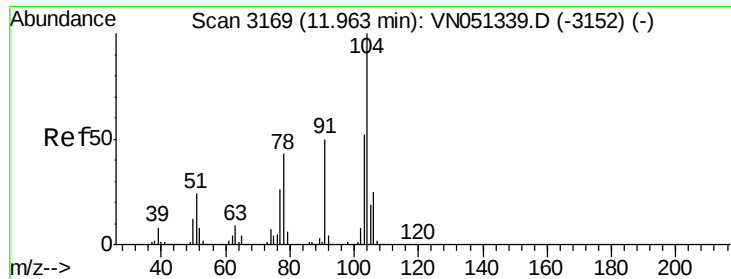
#64
Tetrachloroethene
Concen: 0.213 ug/l
RT: 10.49 min Scan# 2712
Delta R.T. -0.14 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tgt Ion:164 Resp: 1725
Ion Ratio Lower Upper
164 100
166 21.5 102.1 153.1#
129 0.0 69.4 104.2#
131 41.1 68.8 103.2#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#70

Stvrene

Concen: 0.908 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

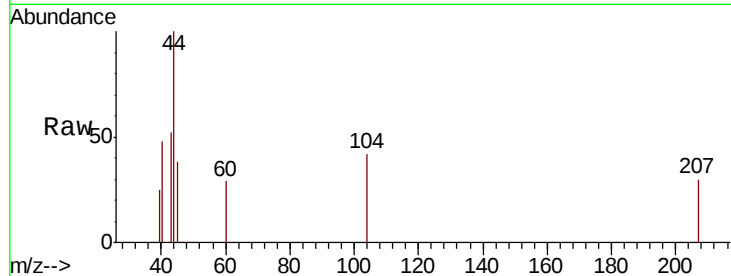
Tot Ion:104 Resp: 335

Ion Ratio Lower Upper

104 100

78 0.0 37.8 56.6#

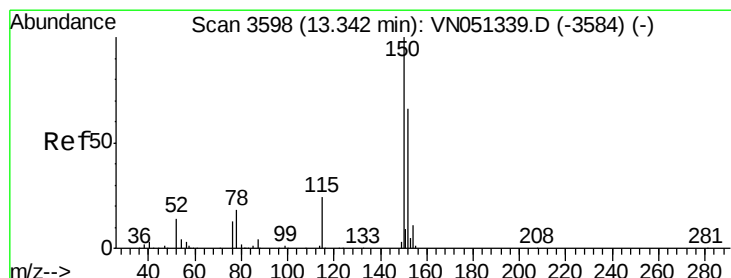
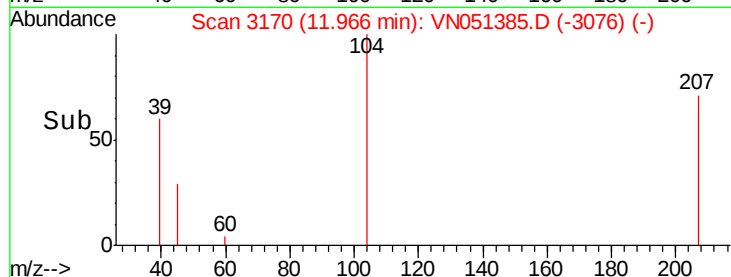
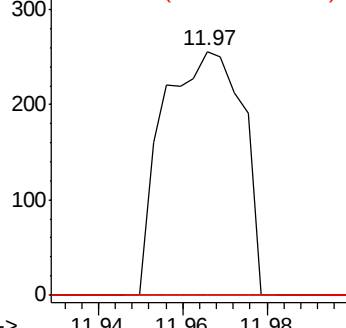
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

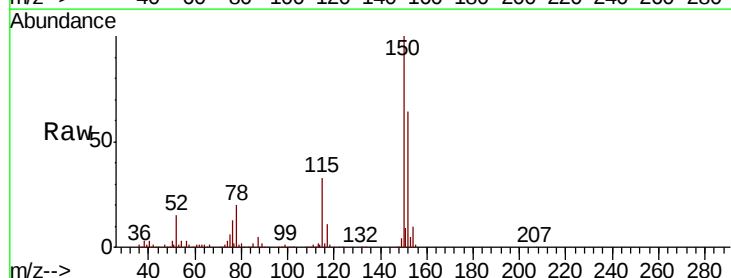
Tgt Ion:152 Resp: 359145

Ion Ratio Lower Upper

152 100

115 53.5 26.9 80.7

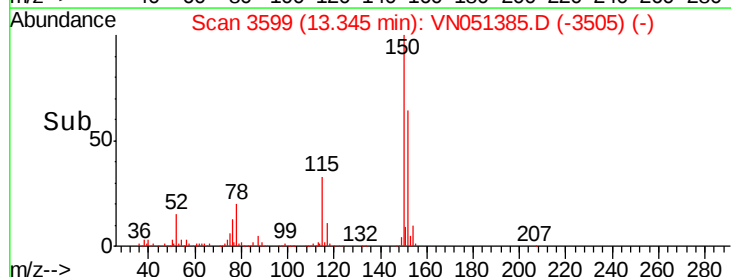
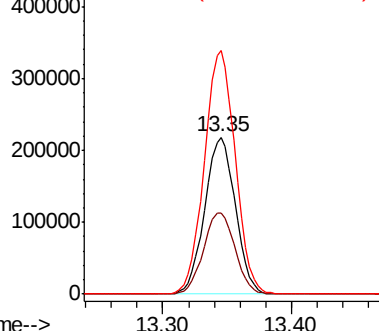
150 156.7 0.0 345.0

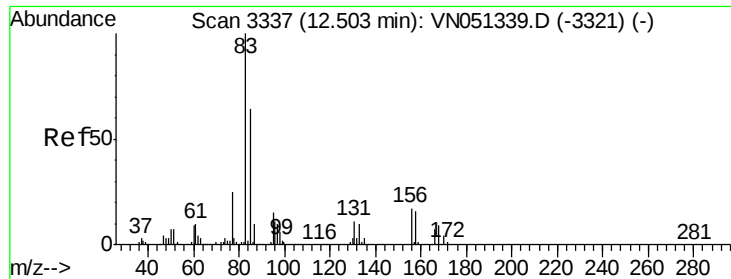


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

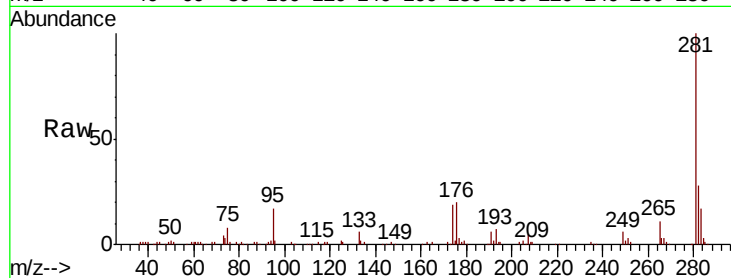
RT: 12.43 min Scan# 3315

Delta R.T. -0.07 min

Lab File: VN051385.D

Acq: 21 Sep 2018 21:54

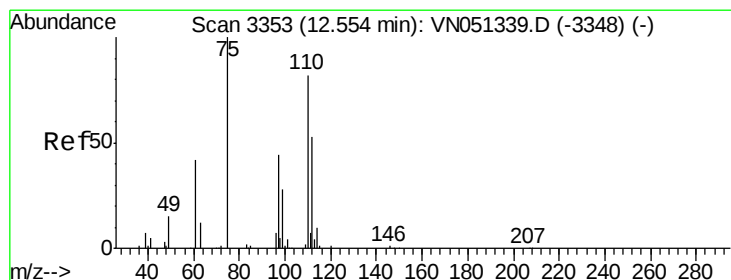
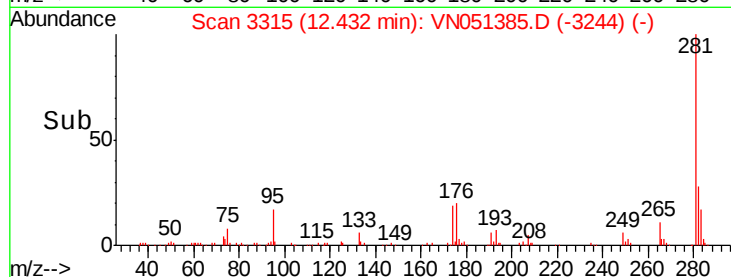
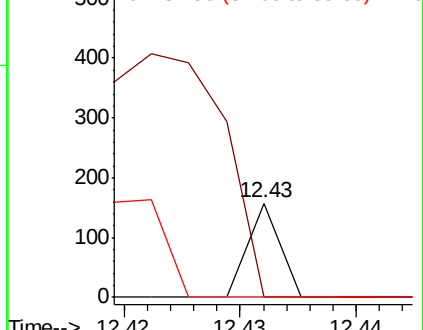
Tot Ion:	83	Resp:	30
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.5	16.7#
85	206.7	32.3	96.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 39.101 ug/l

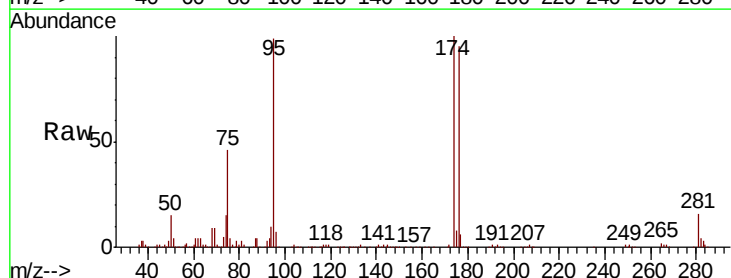
RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051385.D

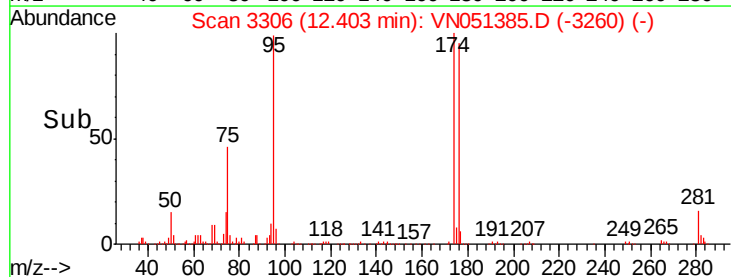
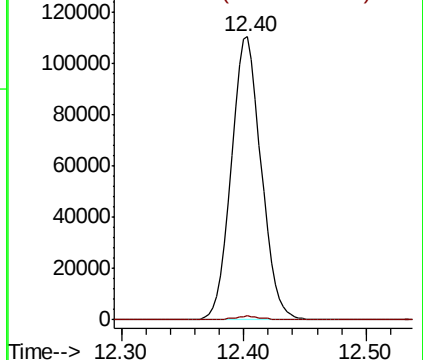
Acq: 21 Sep 2018 21:54

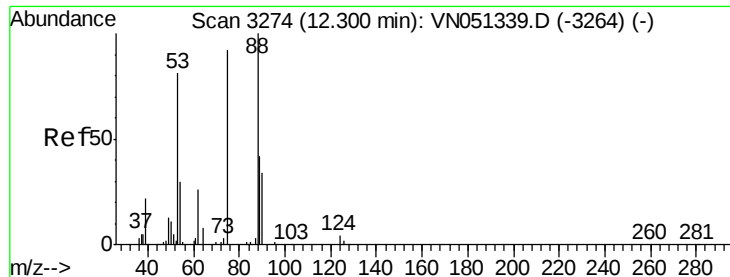
Tgt Ion:	75	Resp:	188102
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

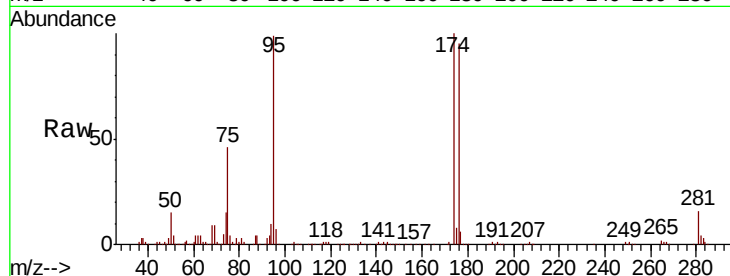
Ion 77.00 (76.70 to 77.70): VN0



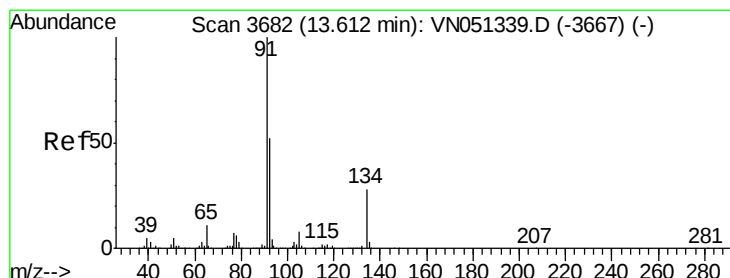
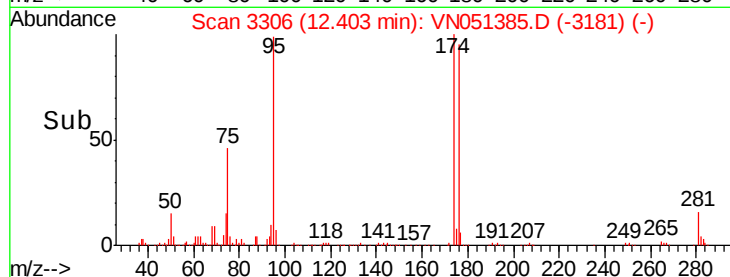
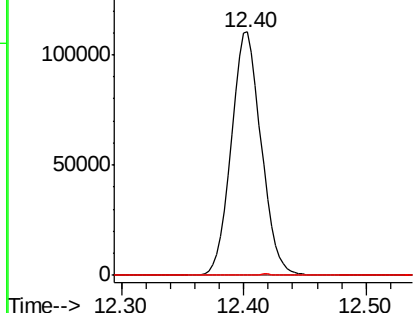


#81
trans-1,4-Dichloro-2-butene
Concen: 117.425 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.2	69.9	104.9#
89	0.4	37.9	56.9#

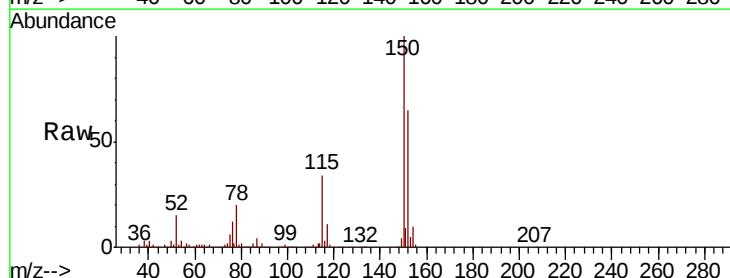


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

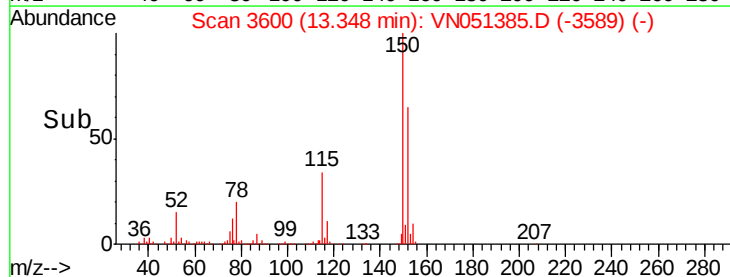
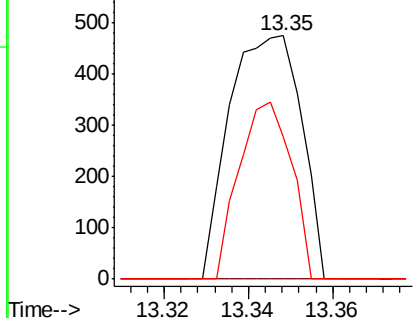


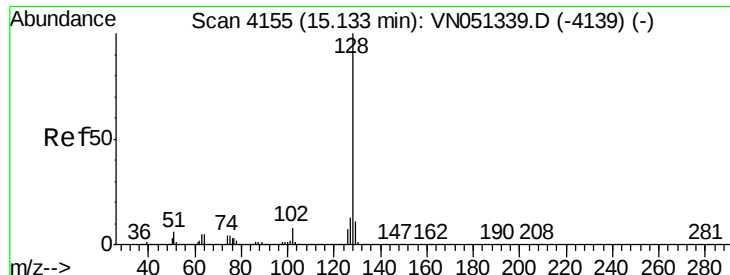
#89
n-Butylbenzene
Concen: 1.457 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.26 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.0	78.0#
134	52.8	14.1	42.4#



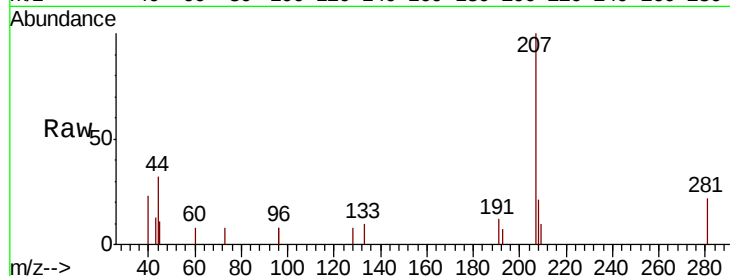
Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V





#95
Naphthalene
Concen: 5.336 ug/l
RT: 15.15 min Scan# 4159
Delta R.T. 0.01 min
Lab File: VN051385.D
Acq: 21 Sep 2018 21:54

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#



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

