

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100618\
 Data File : VN051717.D
 Acq On : 6 Oct 2018 4:10
 Operator : MD\SY
 Sample : J5165-06 40X
 Misc : 5.89µ/5.00mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 47 Sample Multiplier: 28

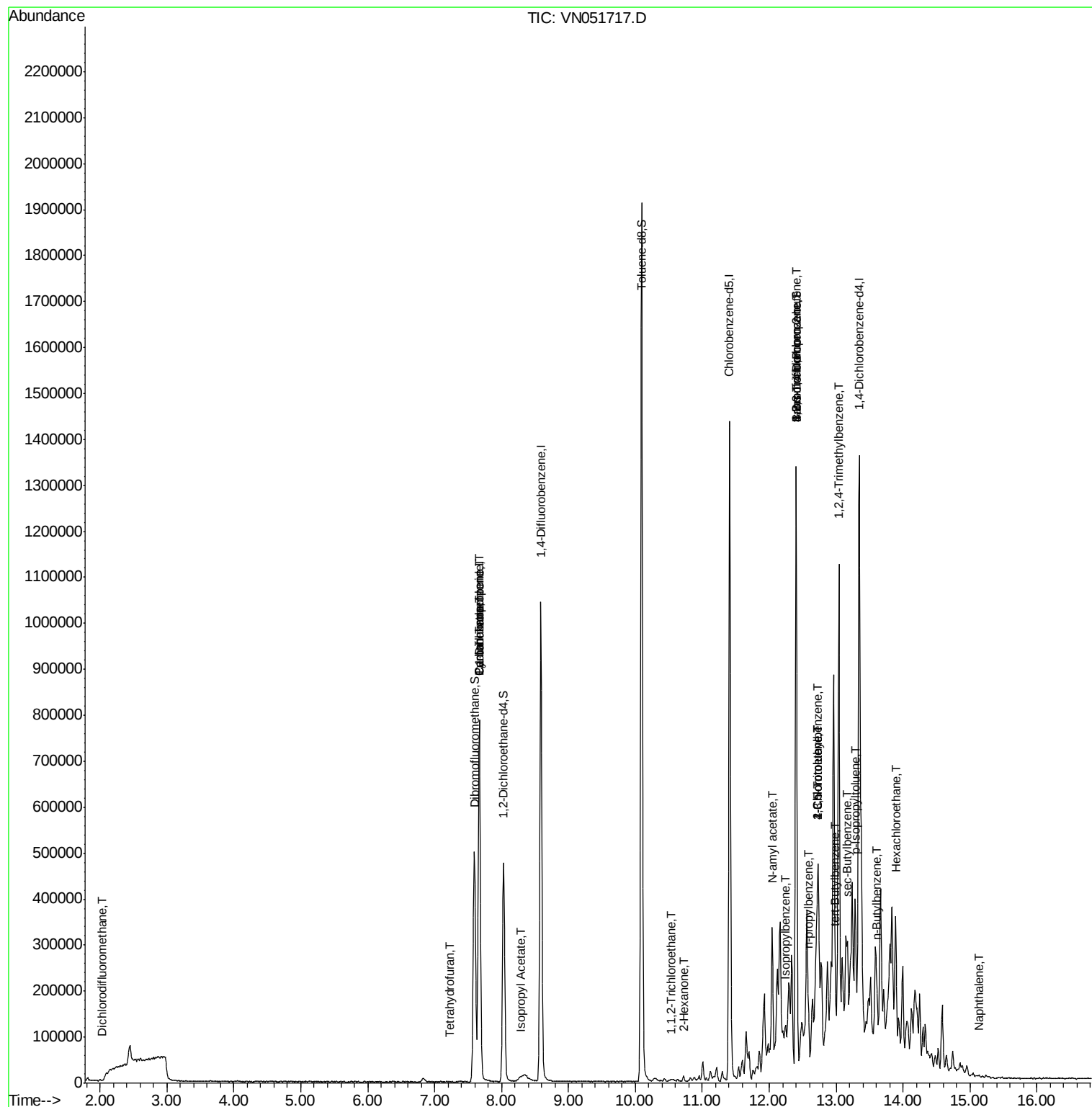
Quant Time: Oct 06 05:55:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

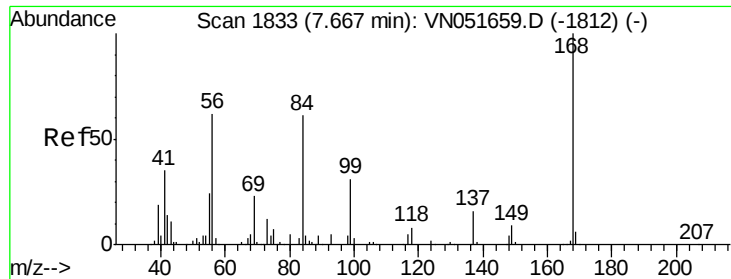
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	684618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	980208	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	859799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	355039	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	402104	44.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.92%	
35) Dibromofluoromethane	7.59	113	372359	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
50) Toluene-d8	10.09	98	1384809	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
62) 4-Bromofluorobenzene	12.40	95	398262	39.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.60%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.03	85	62	1.156	ug/l #	42
7) Trichlorofluoromethane	2.87	101	64	Below Cal	#	19
16) Acetone	3.83	43	499	Below Cal	#	44
29) Tetrahydrofuran	7.22	42	379	0.236	ug/l #	41
31) Cyclohexane	7.66	56	12951	1.055	ug/l #	28
36) 1,1-Dichloropropene	7.67	75	46630	4.551	ug/l #	49
38) Carbon Tetrachloride	7.67	117	61289	4.985	ug/l #	16
41) Methacrylonitrile	7.18	41	658	Below Cal	#	25
43) Isopropyl Acetate	8.28	43	9888	0.888	ug/l #	59
55) 1,1,2-Trichloroethane	10.53	97	1558	0.216	ug/l #	15
59) 2-Hexanone	10.72	43	3799	0.991	ug/l #	22
71) Bromoform	12.40	173	3876	0.611	ug/l #	1
73) Isopropylbenzene	12.25	105	21064	0.696	ug/l	95
74) N-amyl acetate	12.04	43	64302	7.489	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.40	83	3979	Below Cal		73
76) 1,2,3-Trichloropropane	12.40	75	215130	48.656	ug/l #	100
78) n-propylbenzene	12.59	91	67349	2.040	ug/l	98
79) 2-Chlorotoluene	12.73	91	4509	0.232	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	37148	1.456	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	215130	111.382	ug/l #	15
82) 4-Chlorotoluene	12.73	91	4509	0.231	ug/l	99
83) tert-Butylbenzene	12.99	119	9353	0.409	ug/l	92
84) 1,2,4-Trimethylbenzene	13.04	105	541615	21.200	ug/l	100
85) sec-Butylbenzene	13.17	105	72255	2.390	ug/l	80
86) p-Isopropyltoluene	13.29	119	75812	2.829	ug/l	98
89) n-Butylbenzene	13.62	91	60179	2.840	ug/l #	71
90) Hexachloroethane	13.89	117	12081	2.259	ug/l #	7
95) Naphthalene	15.13	128	3225	0.262	ug/l #	86

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

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QLast Update : Fri Oct 05 02:22:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051717.D

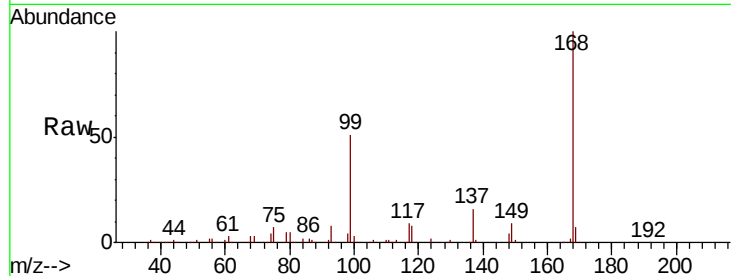
Acq: 6 Oct 2018 4:10

Tot Ion:168 Resp: 684618

Ion Ratio Lower Upper

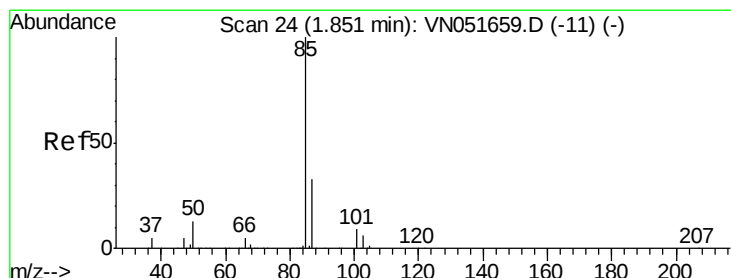
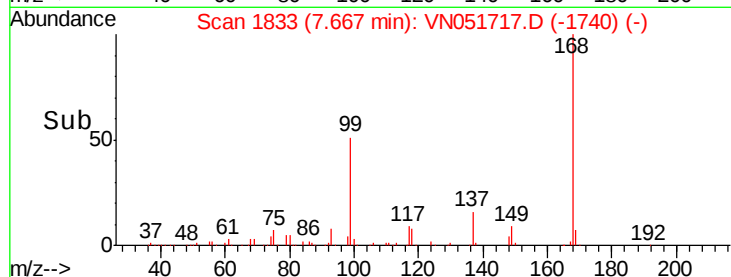
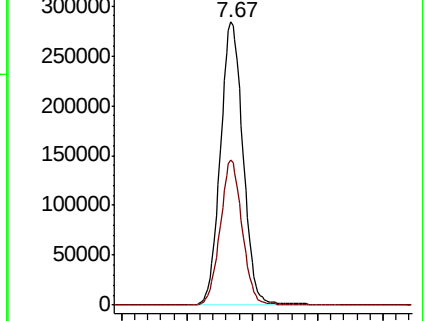
168 100

99 51.3 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 1.156 ug/l

RT: 2.03 min Scan# 80

Delta R.T. 0.18 min

Lab File: VN051717.D

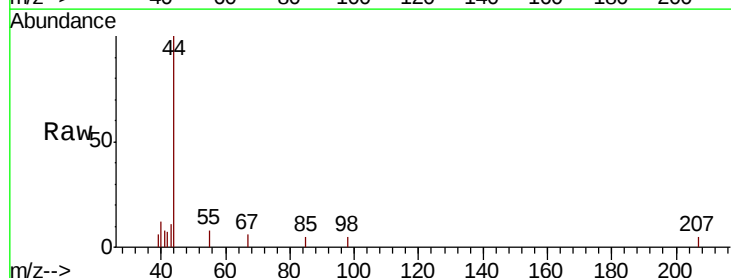
Acq: 6 Oct 2018 4:10

Tgt Ion: 85 Resp: 62

Ion Ratio Lower Upper

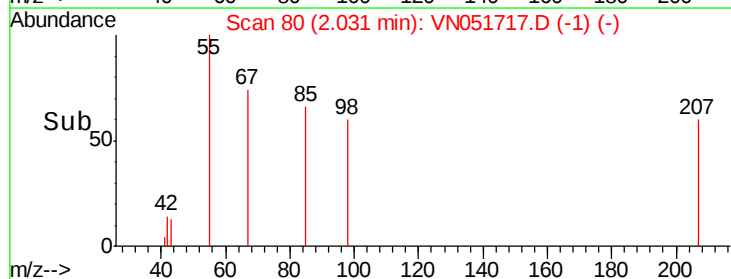
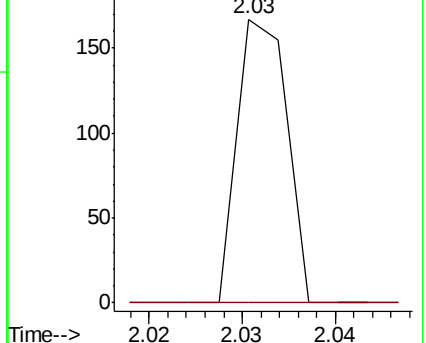
85 100

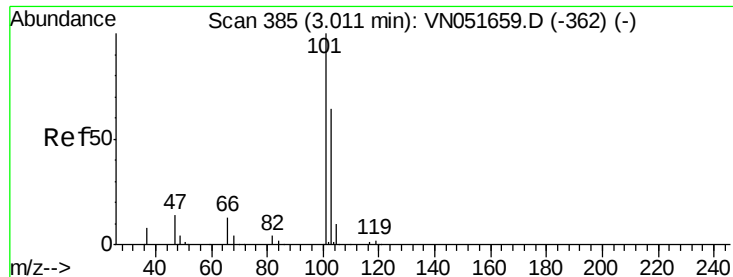
87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

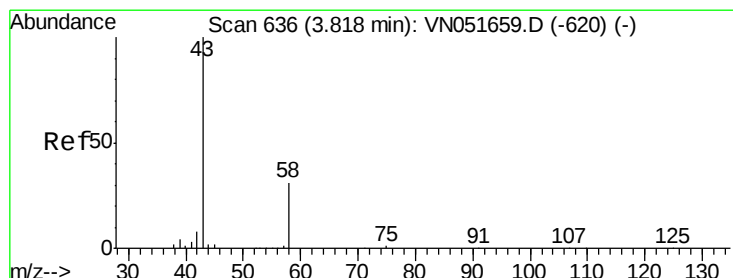
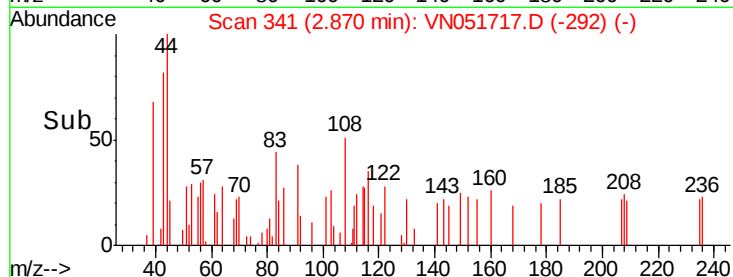
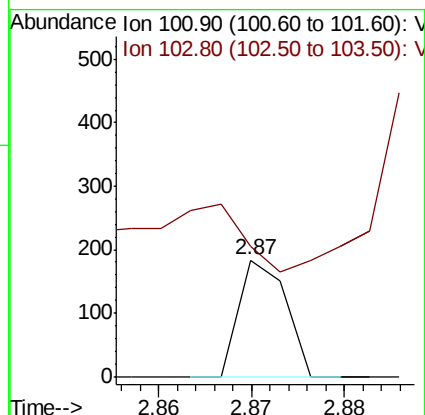
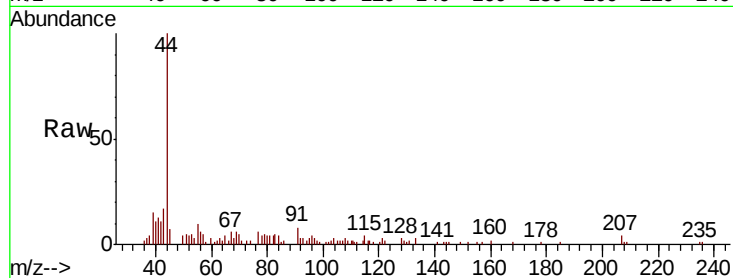




#7

Trichlorofluoromethane
Concen: Below Cal
RT: 2.87 min Scan# 341
Delta R.T. -0.14 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

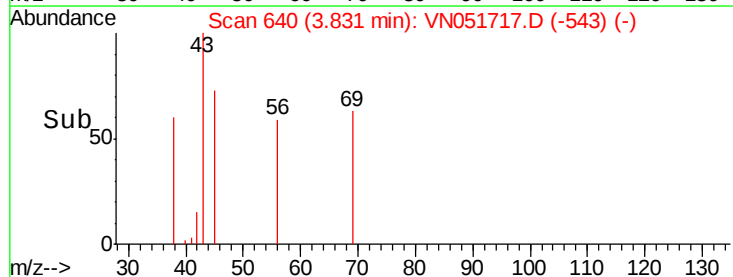
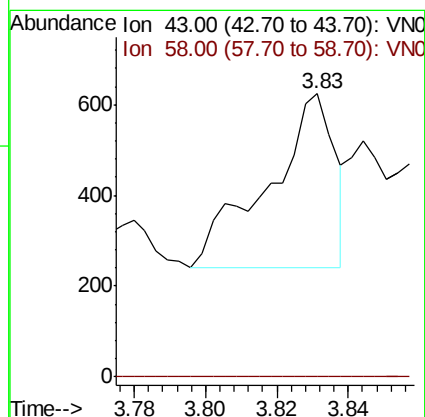
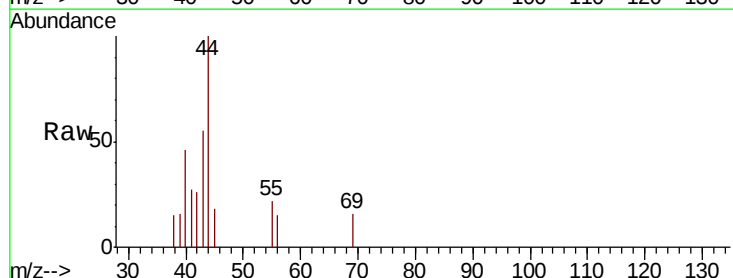
Tot Ion	101	Resp	64
Ion Ratio	100	Lower	Upper
103	0.5	51.1	76.7#

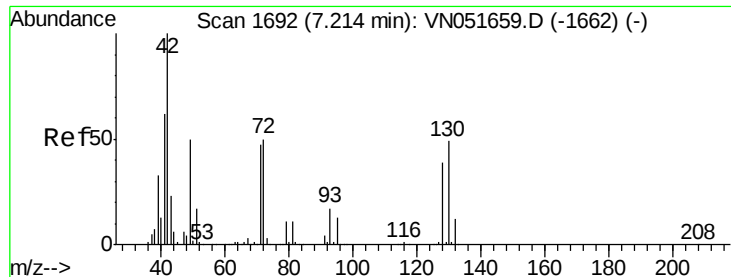


#16

Acetone
Concen: Below Cal
RT: 3.83 min Scan# 640
Delta R.T. 0.01 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

Tgt Ion	43	Resp	499	
Ion Ratio	43	100	Lower	Upper
58	0.0	24.3	36.5#	





#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 7.22 min Scan# 1694

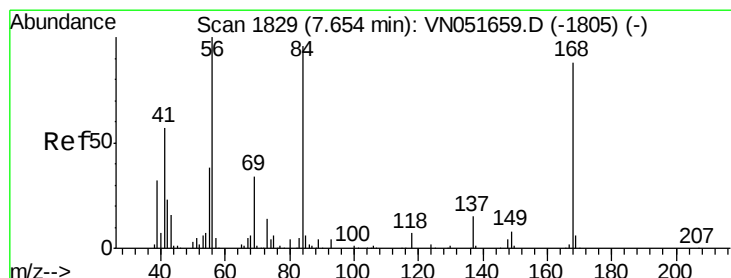
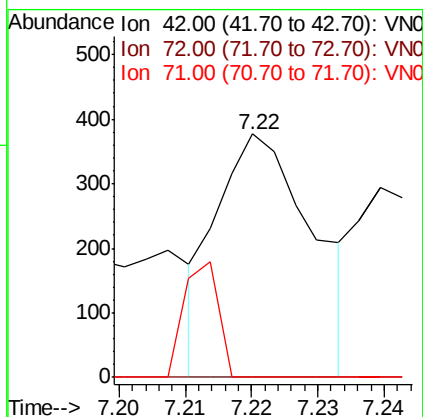
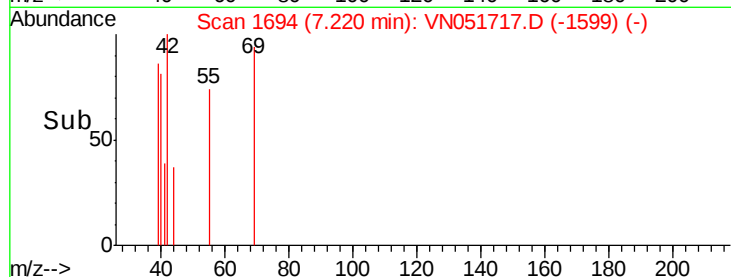
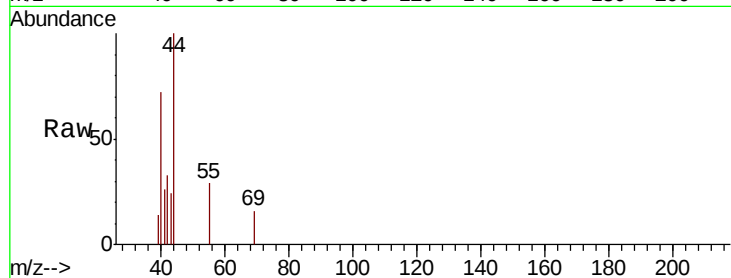
Delta R.T. 0.01 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

Tot Ion: 42 Resp: 379

Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.1	60.1#
71	16.9	38.0	57.0#



#31

Cyclohexane

Concen: 1.055 ug/l

RT: 7.66 min Scan# 1832

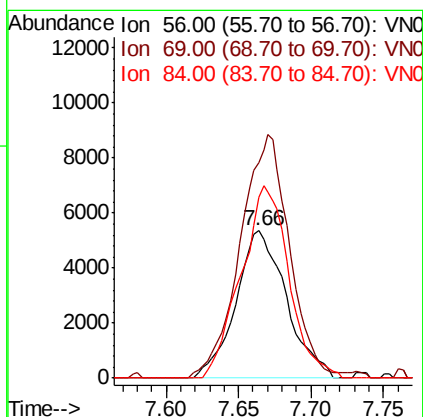
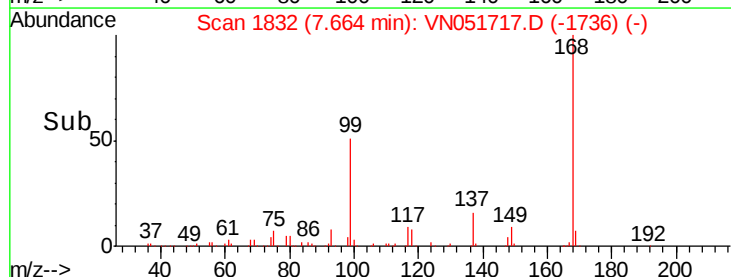
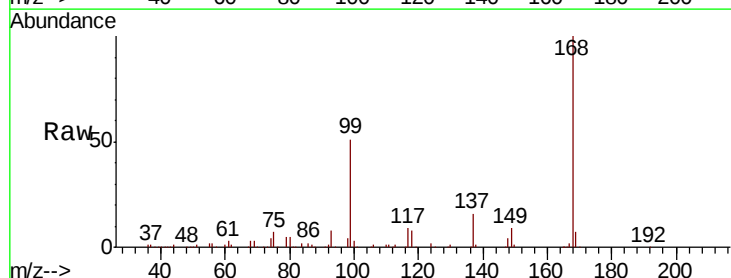
Delta R.T. 0.01 min

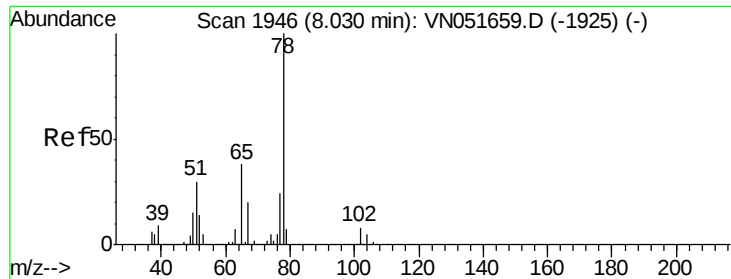
Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

Tgt Ion: 56 Resp: 12951

Ion	Ratio	Lower	Upper
56	100		
69	146.7	27.5	41.3#
84	123.3	76.7	115.1#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051717.D

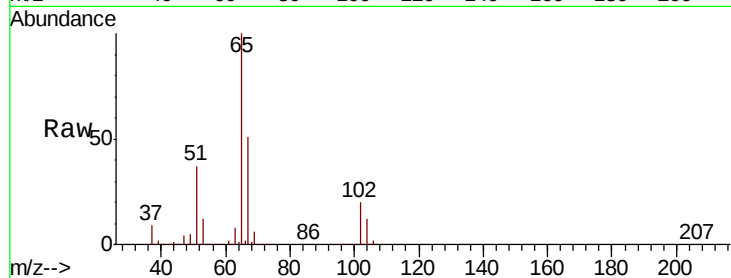
Acq: 6 Oct 2018 4:10

Tot Ion: 65 Resp: 402104

Ion Ratio Lower Upper

65 100

67 51.3 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN051717.D (-1853) (-)

Ion 66.90 (66.60 to 67.60): VN051717.D (-1853) (-)

8.03

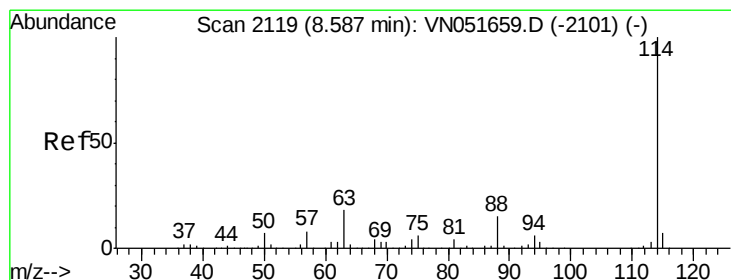
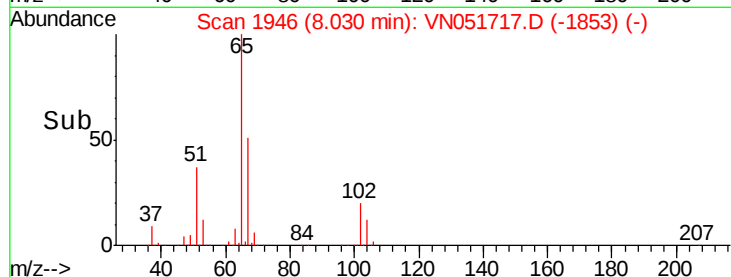
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

Tgt Ion: 114 Resp: 980208

Ion Ratio Lower Upper

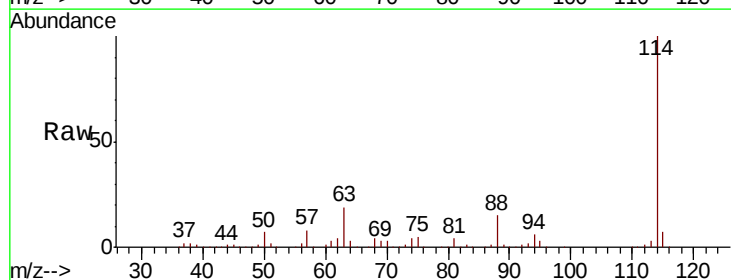
114 100

63 18.8

88 14.6

0.0 36.2

0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN051717.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN051717.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN051717.D (-2026) (-)

8.59

600000

500000

400000

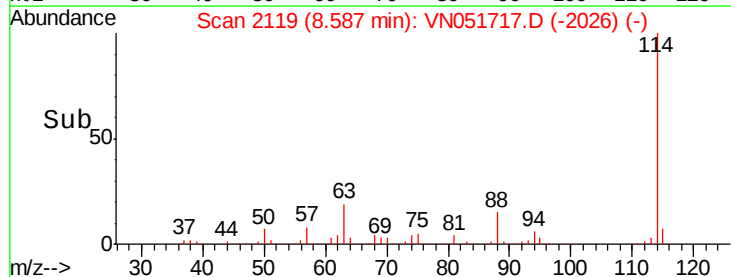
300000

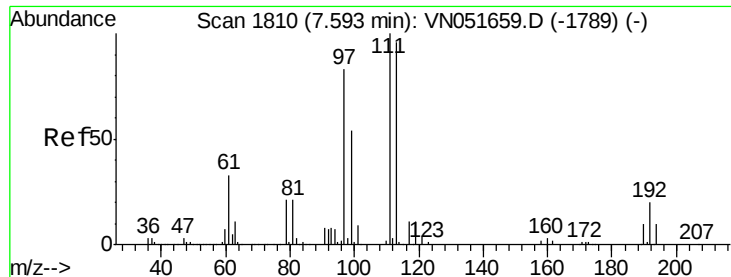
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

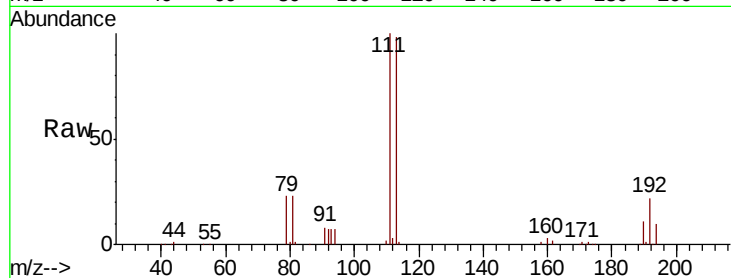
Tot Ion:113 Resp: 372359

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

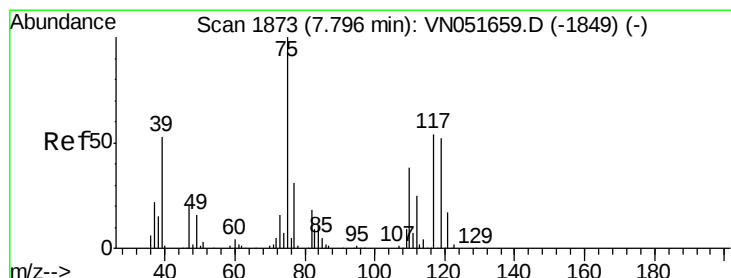
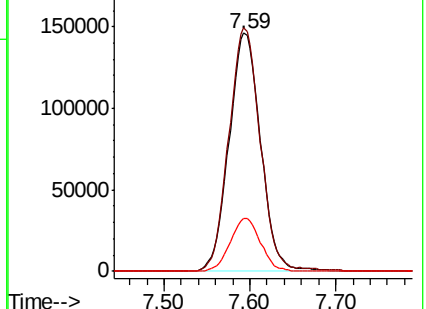
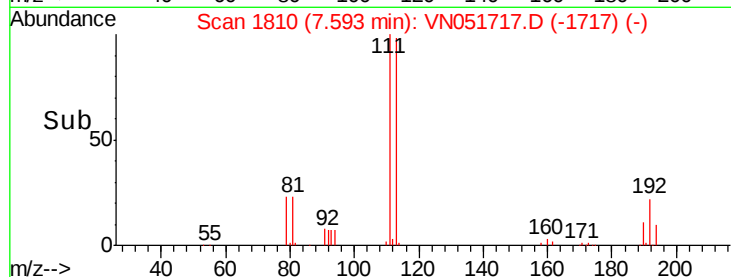
192 21.4 16.5 24.7



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: 4.551 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

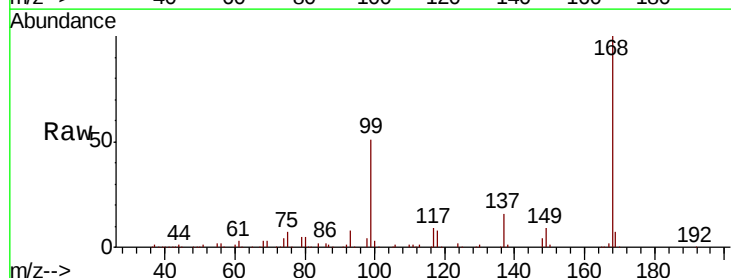
Tgt Ion: 75 Resp: 46630

Ion Ratio Lower Upper

75 100

110 10.2 19.3 57.8#

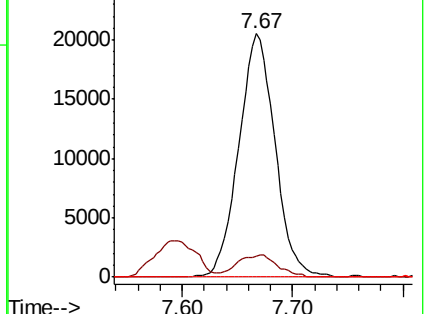
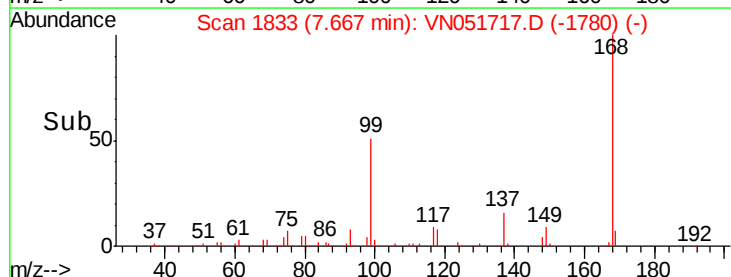
77 0.0 24.7 37.1#

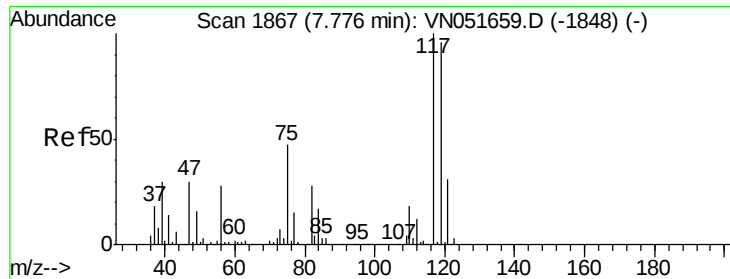


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.985 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

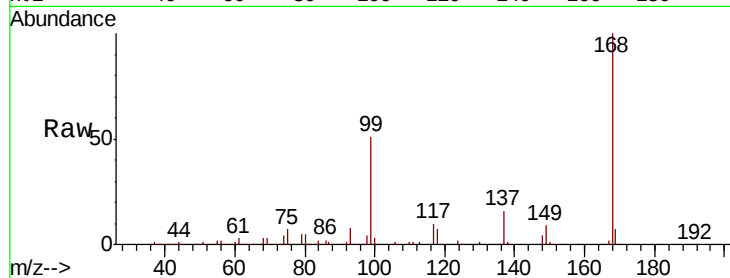
Tot Ion:117 Resp: 61289

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.6#

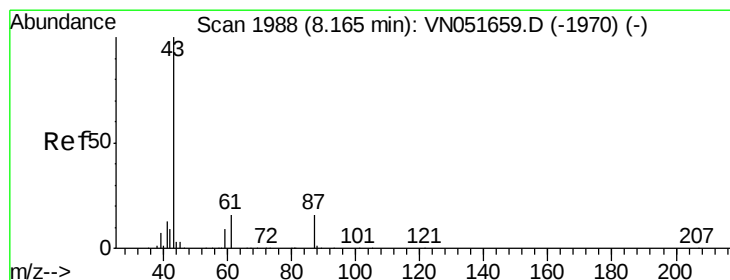
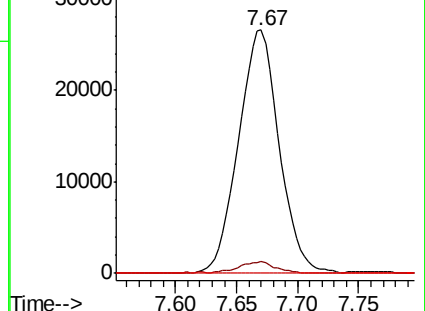
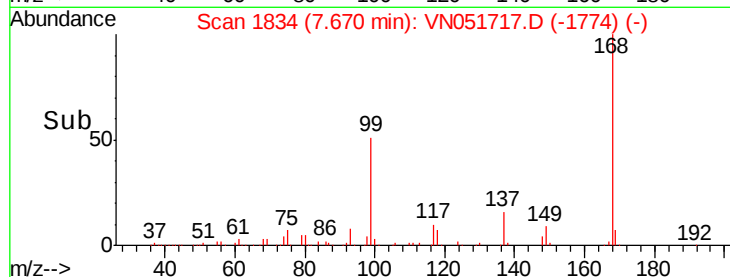
121 0.0 25.0 37.6#



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



#43

Isopropyl Acetate

Concen: 0.888 ug/l

RT: 8.28 min Scan# 2024

Delta R.T. 0.12 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

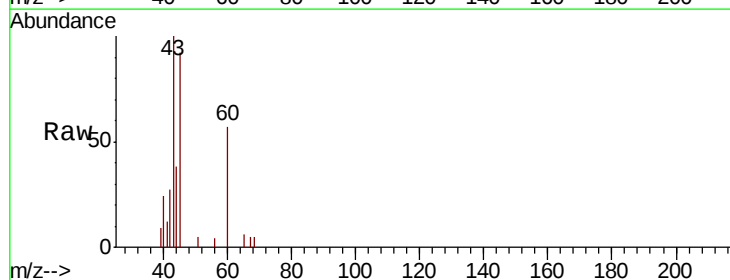
Tgt Ion: 43 Resp: 9888

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

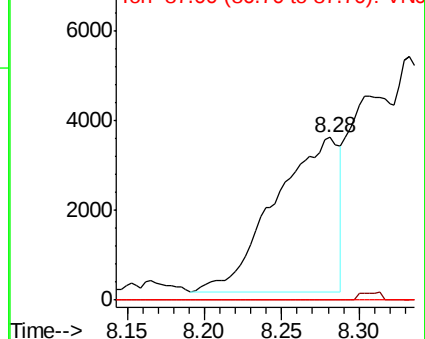
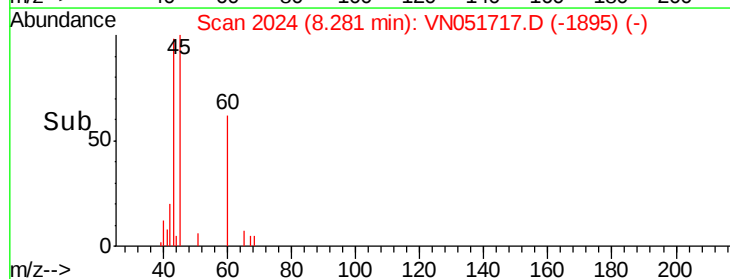
87 0.0 12.6 19.0#

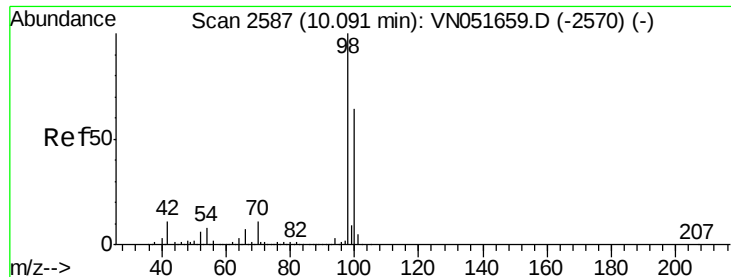


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

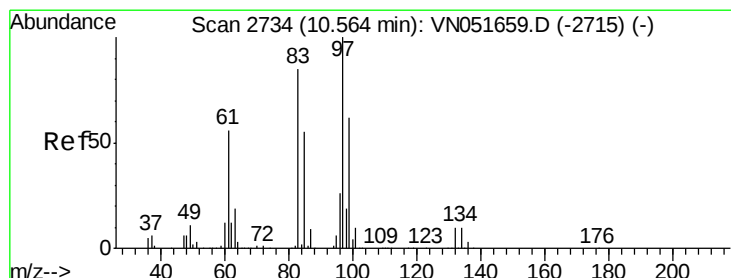
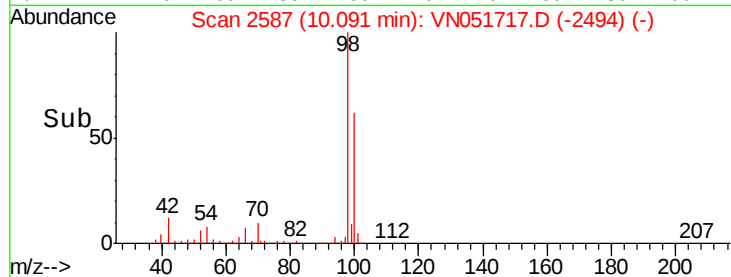
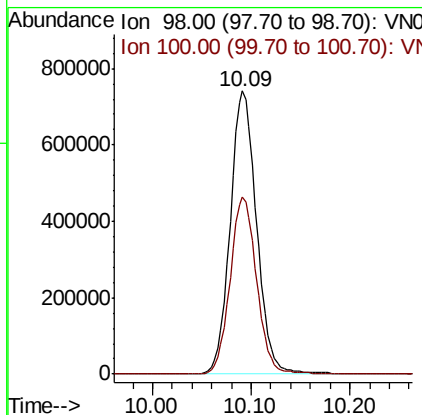
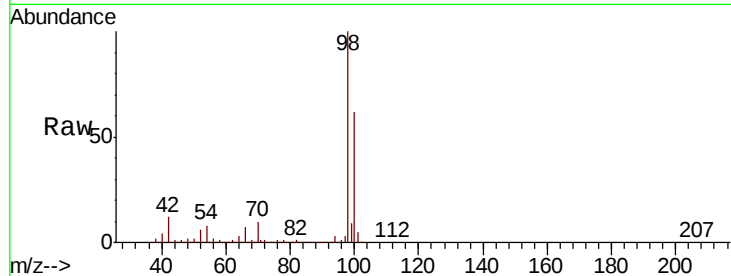
Ion 87.00 (86.70 to 87.70): V





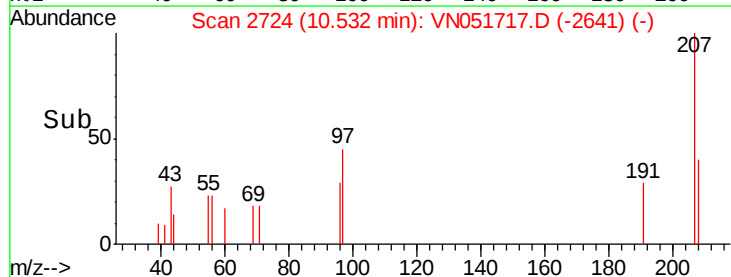
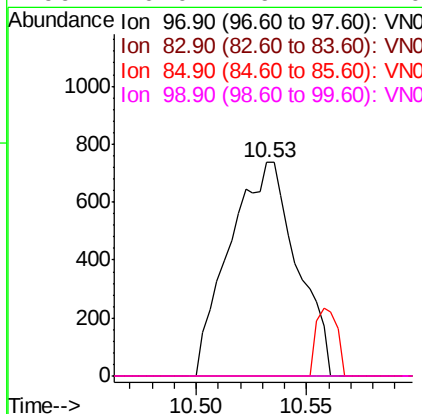
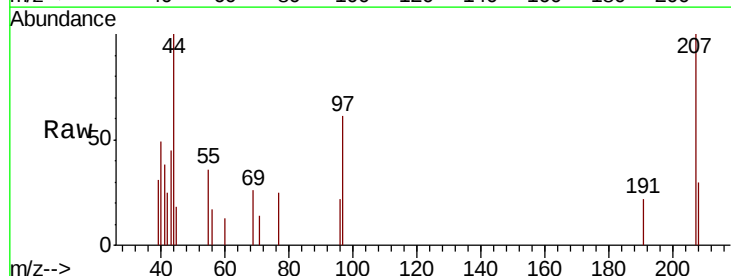
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

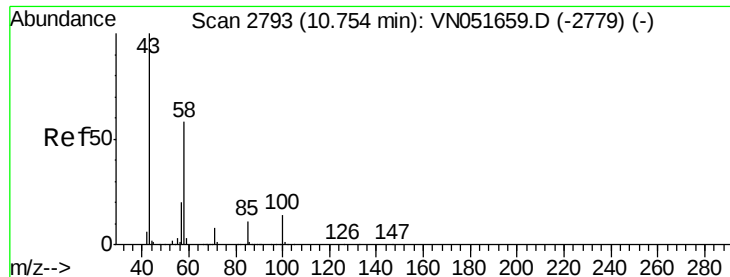
Tot Ion: 98 Resp: 1384809
Ion Ratio Lower Upper
98 100
100 62.9 51.5 77.3



#55
1,1,2-Trichloroethane
Concen: 0.216 ug/l
RT: 10.53 min Scan# 2724
Delta R.T. -0.03 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

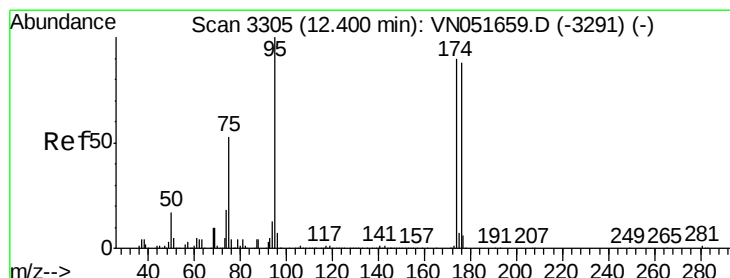
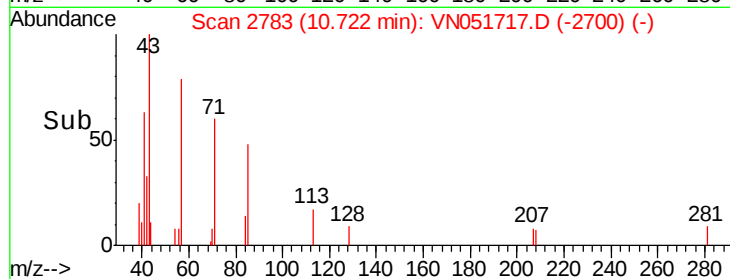
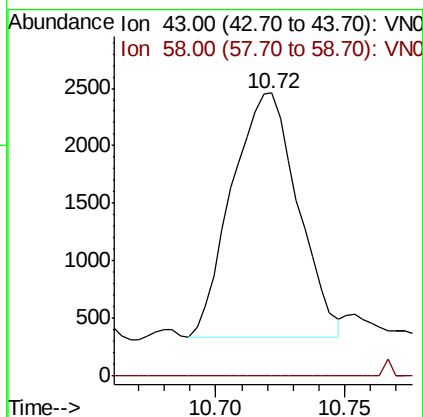
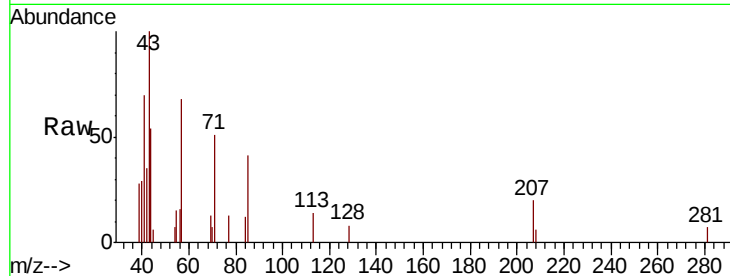
Tgt Ion: 97 Resp: 1558
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 43.6 65.4#
99 0.0 49.4 74.0#





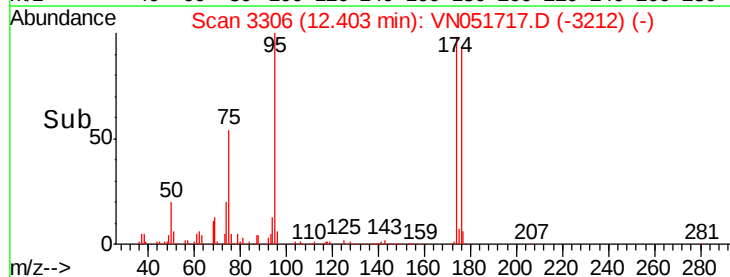
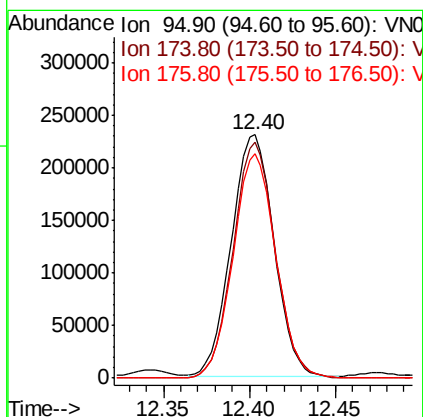
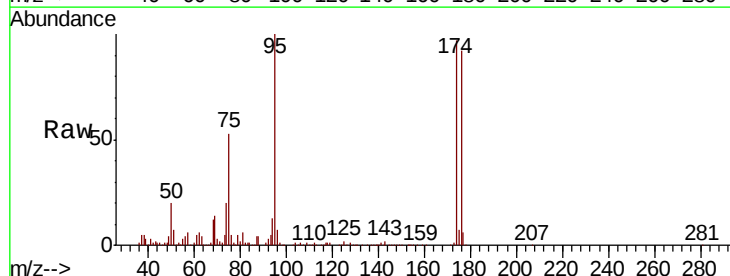
#59
2-Hexanone
Concen: 0.991 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. -0.03 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

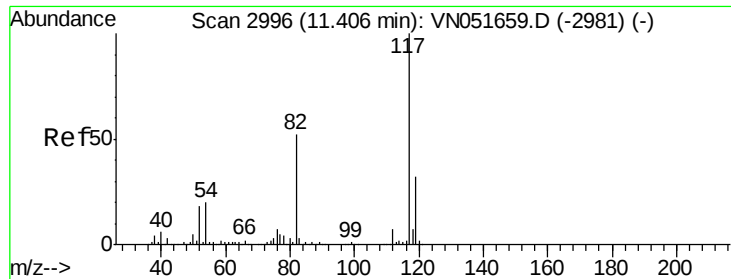
Tot Ion: 43 Resp: 3799
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

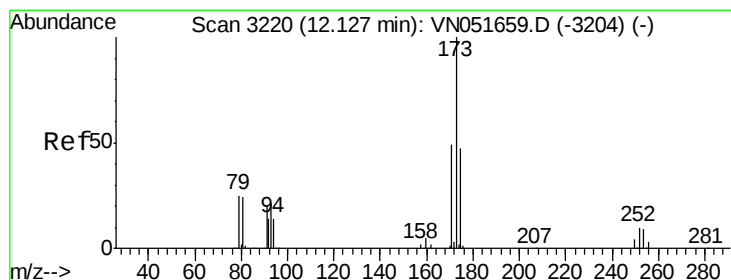
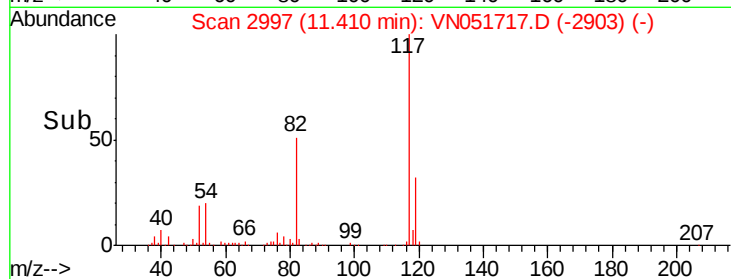
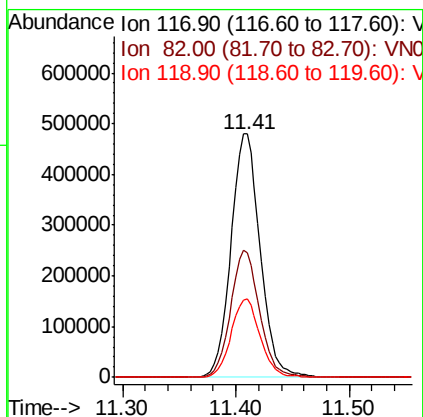
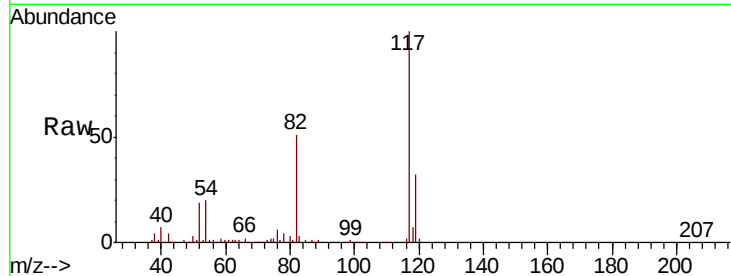
Tgt Ion: 95 Resp: 398262
Ion Ratio Lower Upper
95 100
174 96.0 0.0 182.8
176 92.2 0.0 176.4





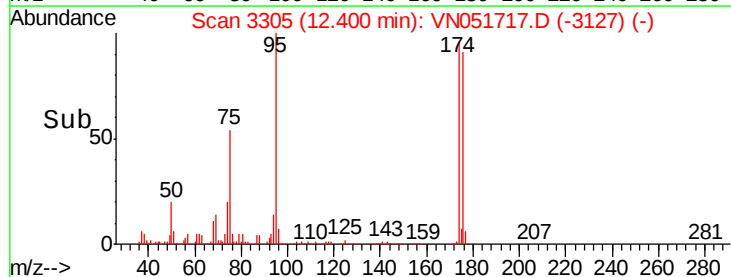
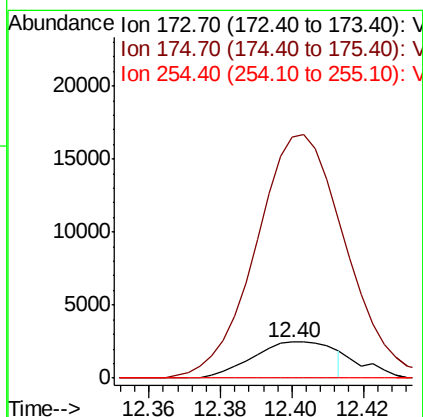
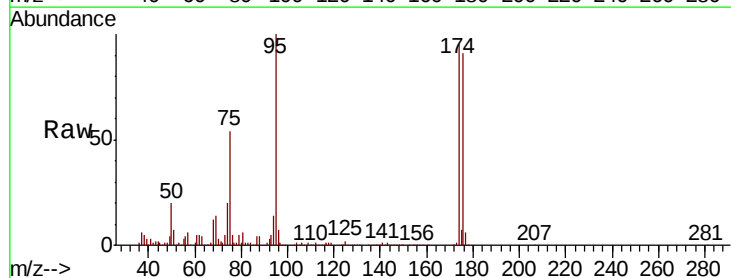
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

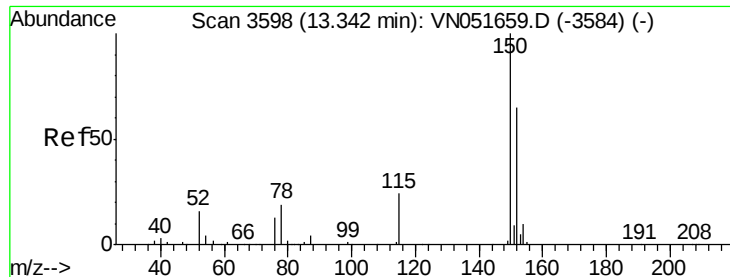
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.8	41.3	61.9
119	32.1	25.9	38.9



#71
Bromoform
Concen: 0.611 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

Tgt Ion	Ratio	Lower	Upper
173	100		
175	632.0	24.0	72.0#
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

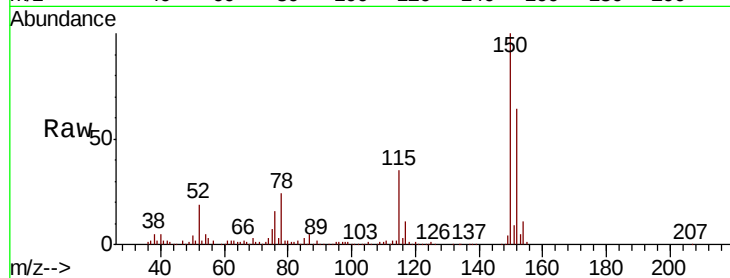
Tot Ion:152 Resp: 355039

Ion Ratio Lower Upper

152 100

115 58.4 28.6 85.8

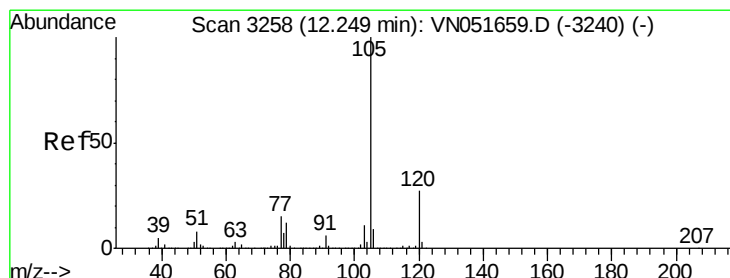
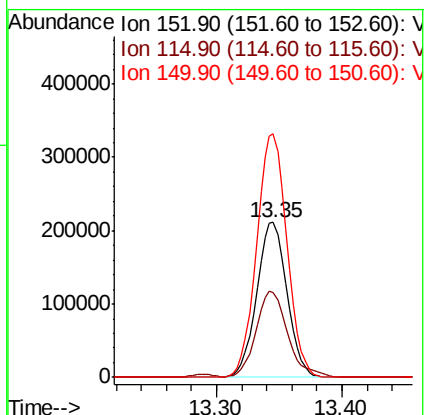
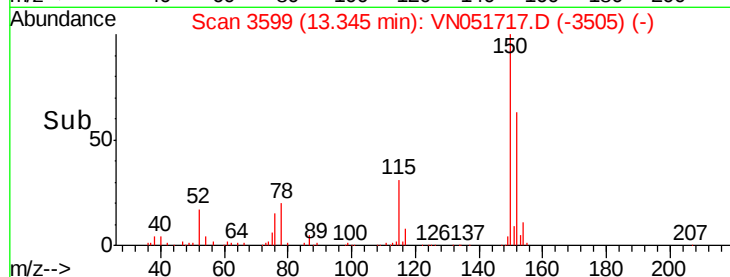
150 156.9 0.0 352.4



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



#73

Isopropylbenzene

Concen: 0.696 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN051717.D

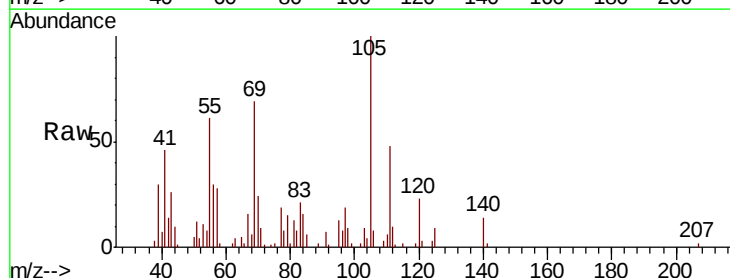
Acq: 6 Oct 2018 4:10

Tgt Ion:105 Resp: 21064

Ion Ratio Lower Upper

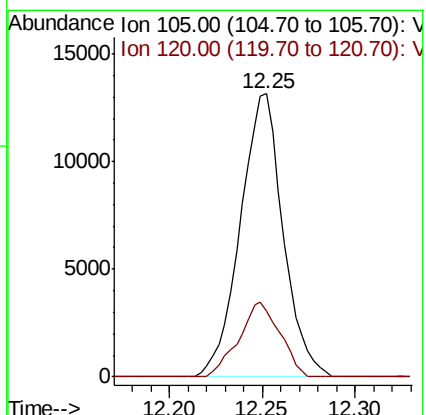
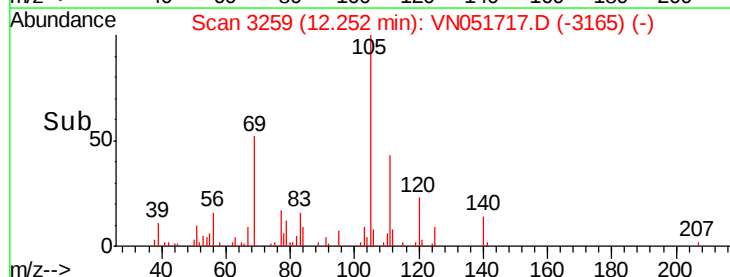
105 100

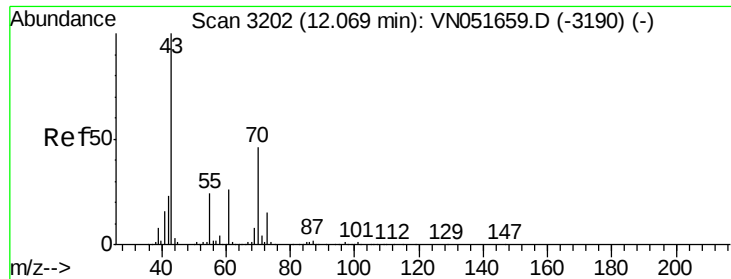
120 25.3 13.9 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 7.489 ug/l

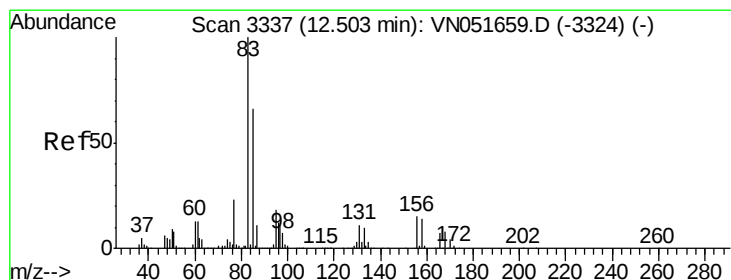
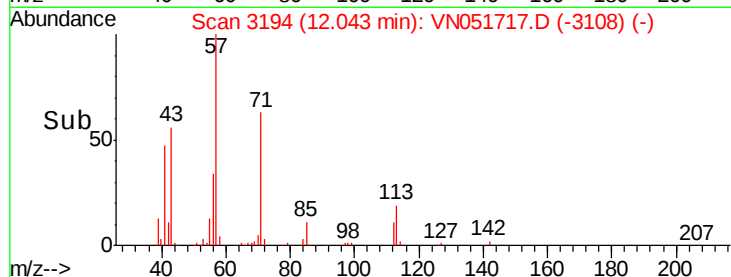
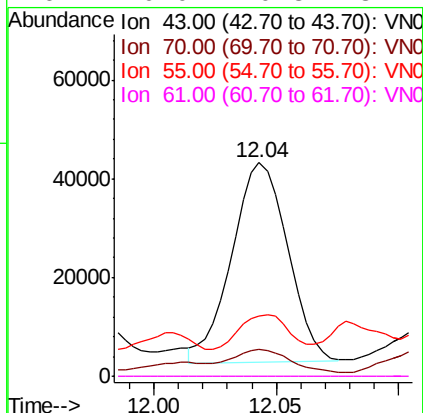
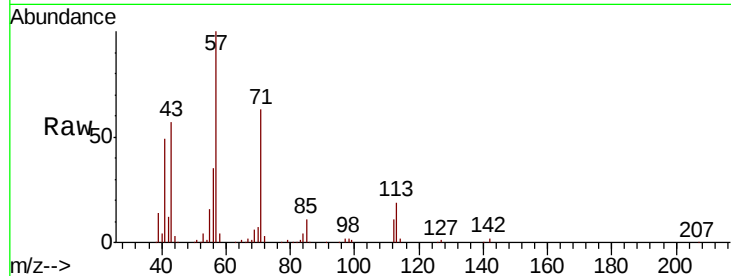
RT: 12.04 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

Tot Ion:	43	Resp:	64302
Ion	Ratio	Lower	Upper
43	100		
70	11.8	37.1	55.7#
55	16.2	19.1	28.7#
61	0.0	20.8	31.2#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

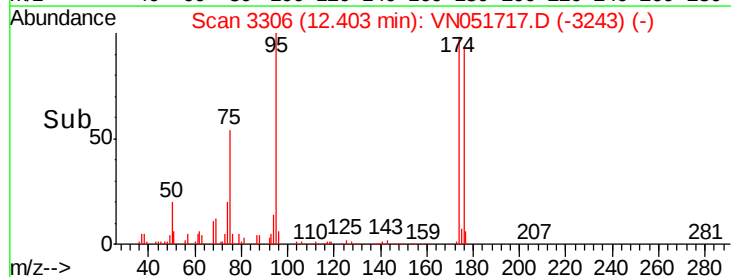
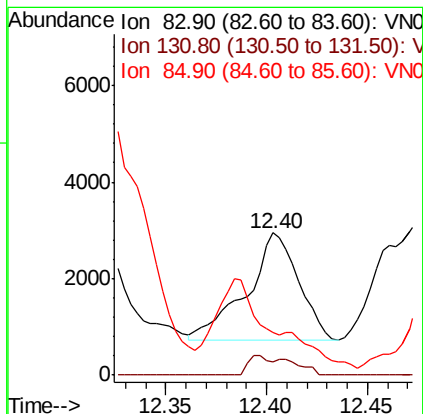
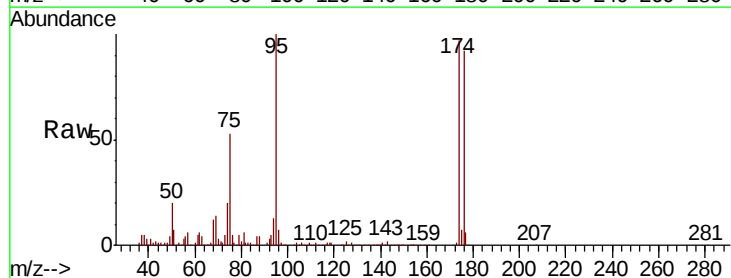
RT: 12.40 min Scan# 3306

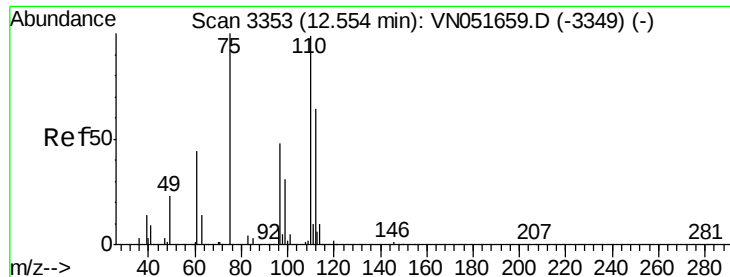
Delta R.T. -0.10 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

Tgt Ion:	83	Resp:	3979
Ion	Ratio	Lower	Upper
83	100		
131	8.0	5.7	17.1
85	90.0	33.0	98.9

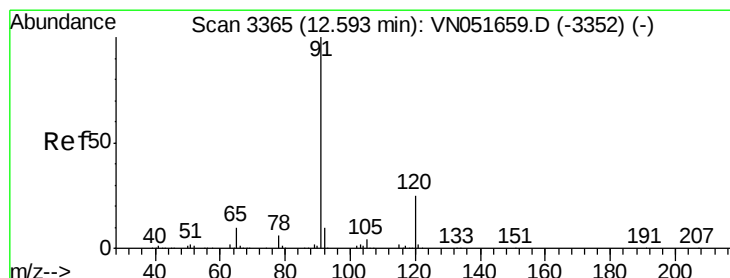
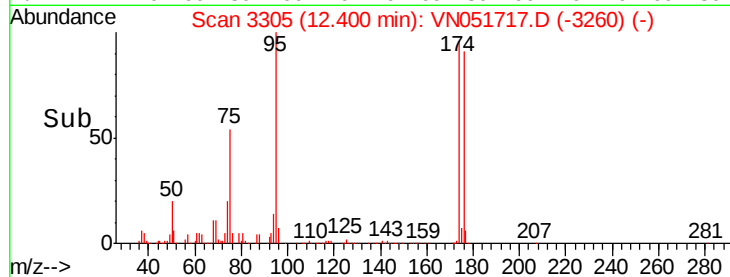
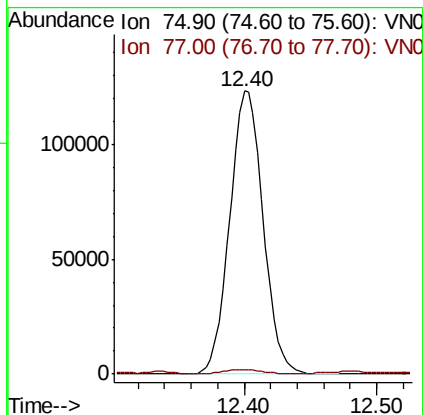
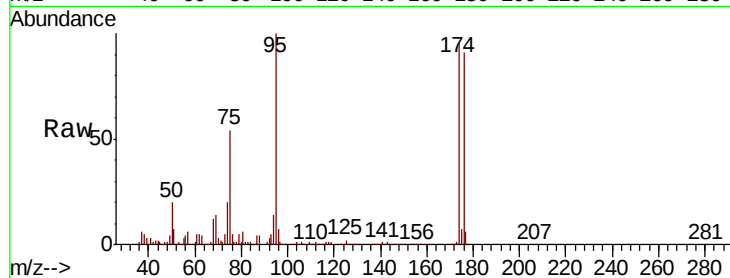




#76

1,2,3-Trichloropropane
 Concen: 48.656 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

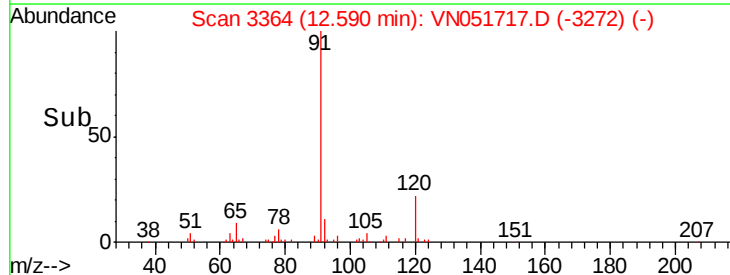
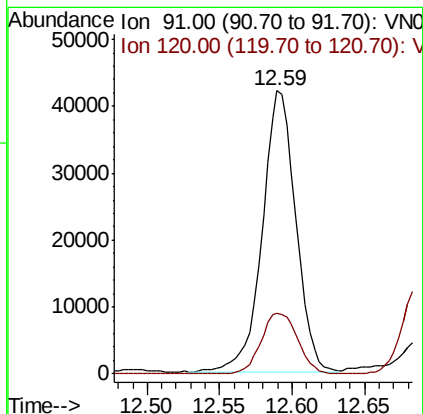
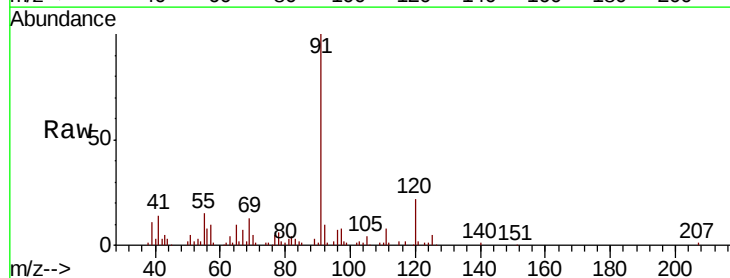
Tot Ion: 75 Resp: 215130
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#

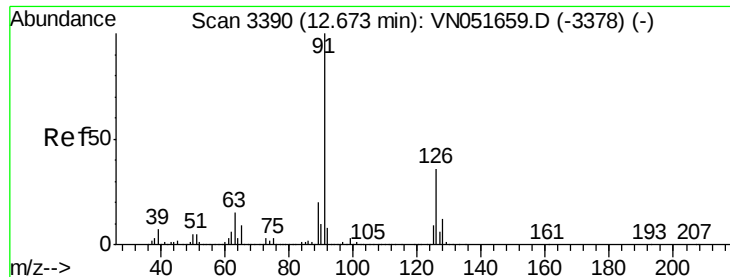


#78

n-propylbenzene
 Concen: 2.040 ug/l
 RT: 12.59 min Scan# 3364
 Delta R.T. -0.00 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

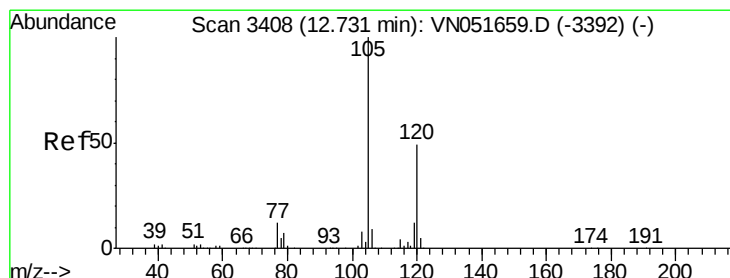
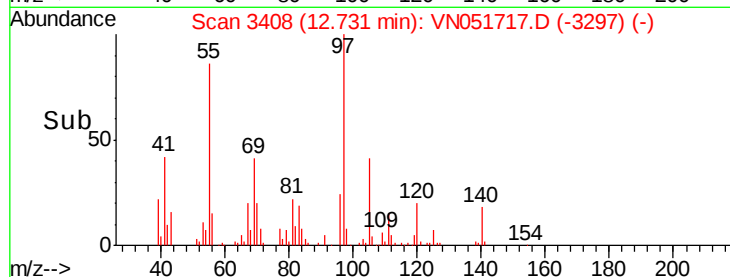
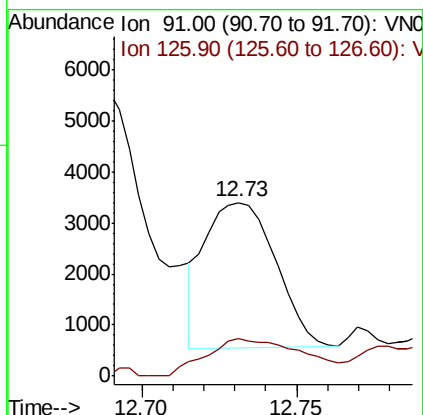
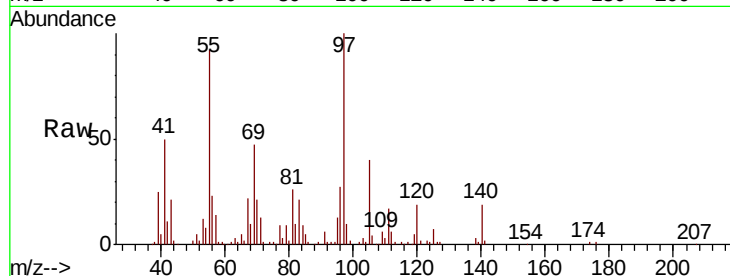
Tgt Ion: 91 Resp: 67349
 Ion Ratio Lower Upper
 91 100
 120 23.6 12.4 37.2





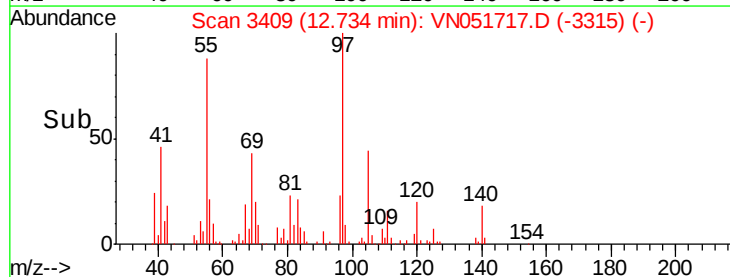
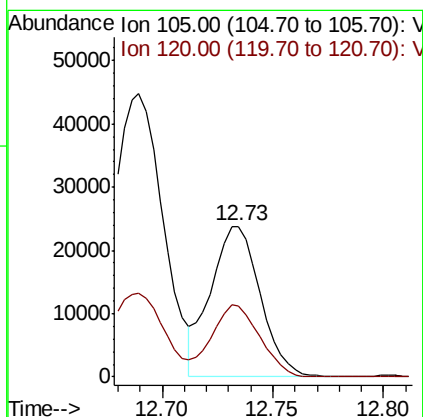
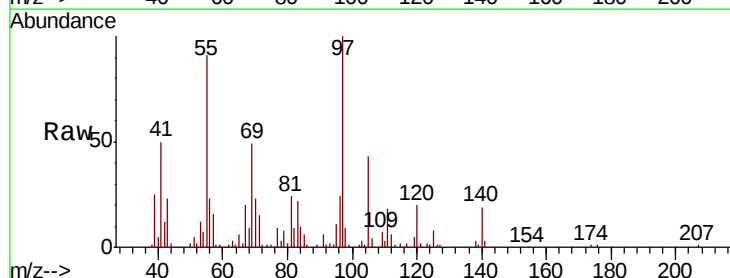
#79
 2-Chlorotoluene
 Concen: 0.232 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.06 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

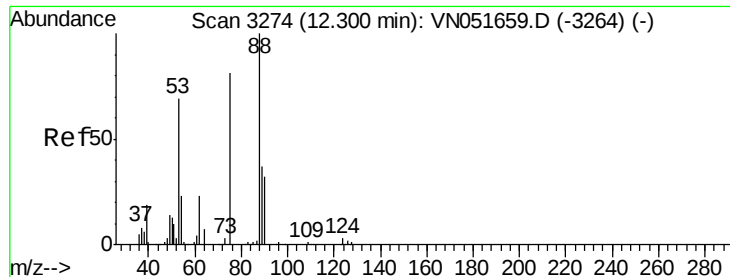
Tot Ion: 91 Resp: 4509
 Ion Ratio Lower Upper
 91 100
 126 35.3 18.5 55.5



#80
 1,3,5-Trimethylbenzene
 Concen: 1.456 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

Tgt Ion: 105 Resp: 37148
 Ion Ratio Lower Upper
 105 100
 120 46.3 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 111.382 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

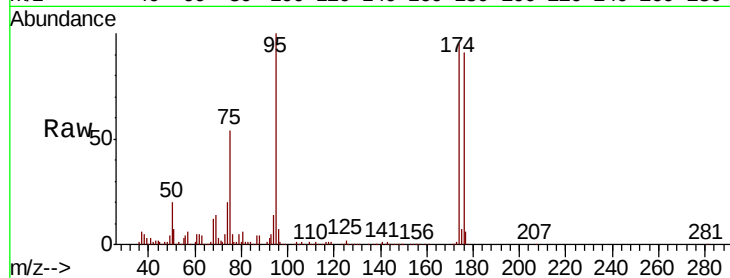
Tot Ion: 75 Resp: 215130

Ion Ratio Lower Upper

75 100

53 0.6 68.6 102.8#

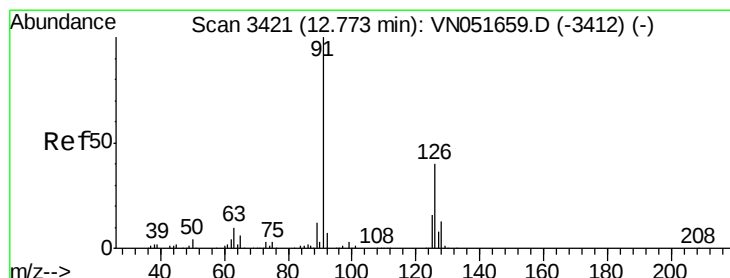
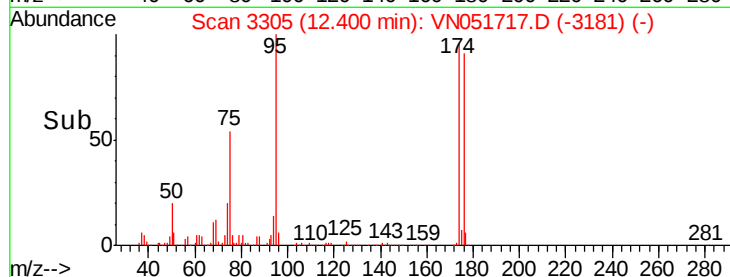
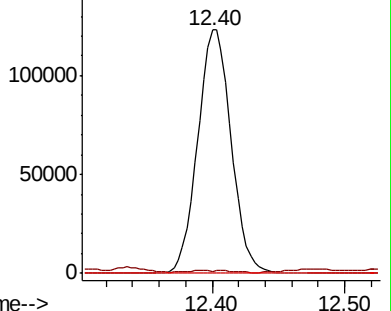
89 0.0 39.4 59.2#



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



#82

4-Chlorotoluene

Concen: 0.231 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.04 min

Lab File: VN051717.D

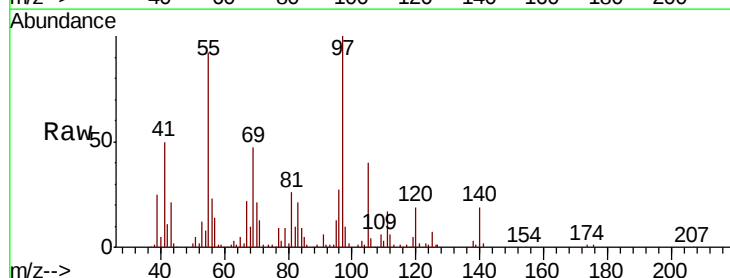
Acq: 6 Oct 2018 4:10

Tgt Ion: 91 Resp: 4509

Ion Ratio Lower Upper

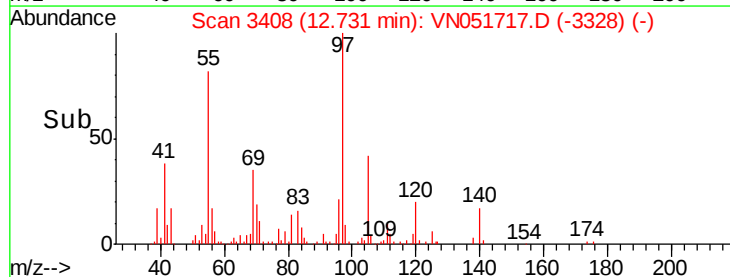
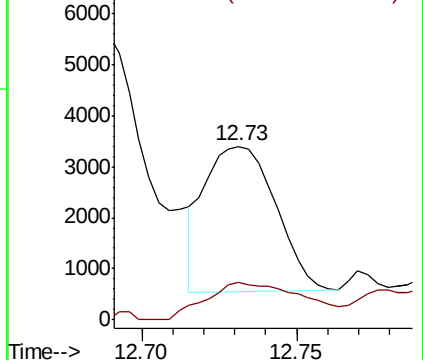
91 100

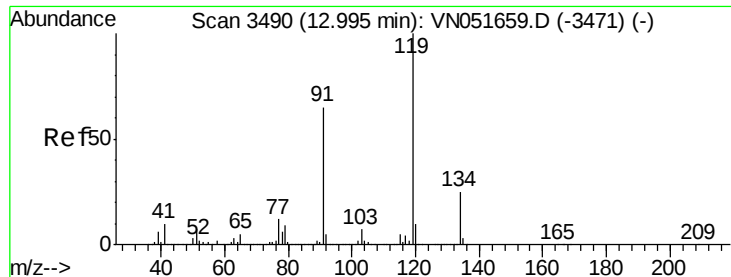
126 35.3 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

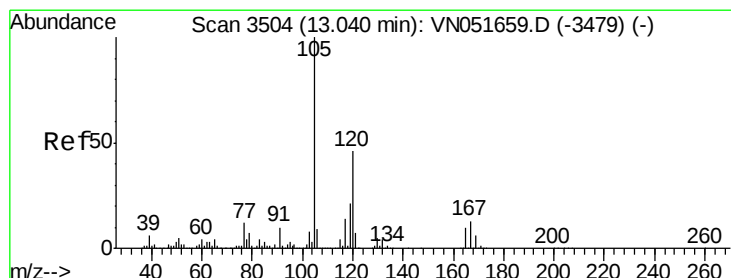
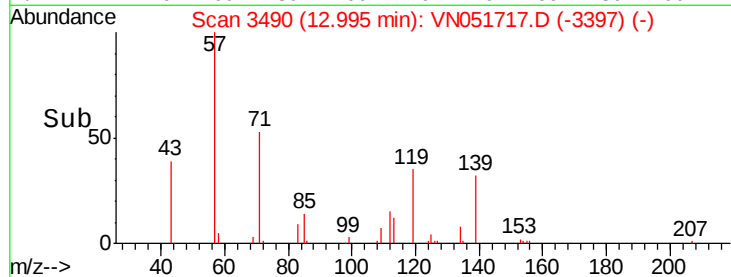
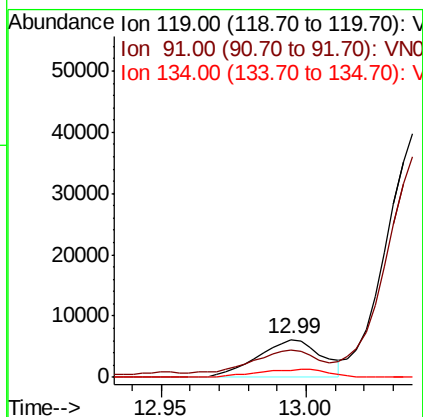
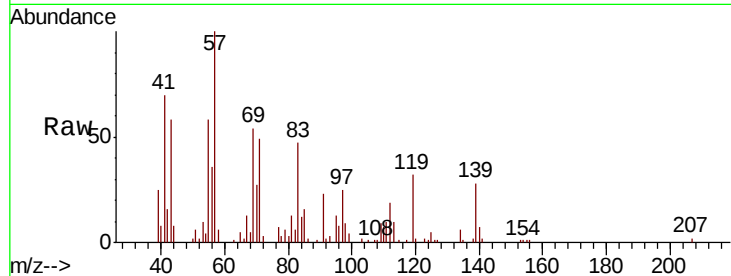
Ion 125.90 (125.60 to 126.60): V





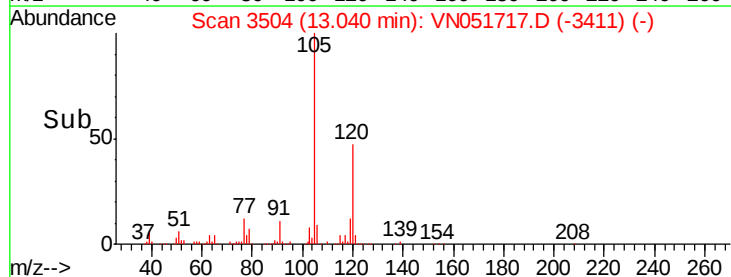
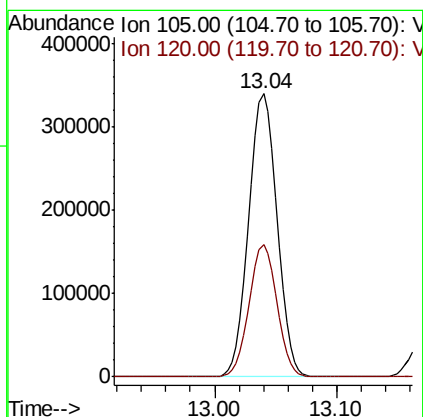
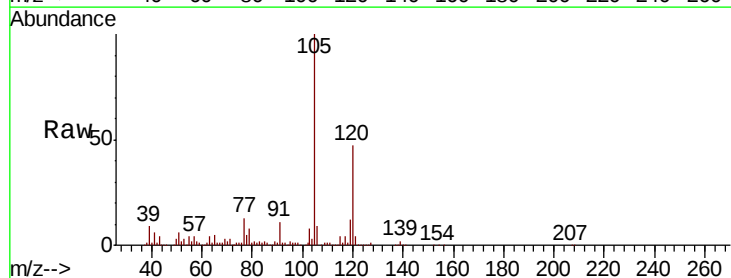
#83
 tert-Butylbenzene
 Concen: 0.409 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

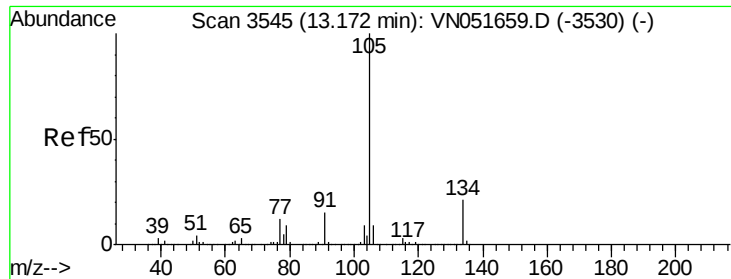
Tot Ion:119 Resp: 9353
 Ion Ratio Lower Upper
 119 100
 91 57.6 32.1 96.5
 134 23.9 13.3 39.9



#84
 1,2,4-Trimethylbenzene
 Concen: 21.200 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

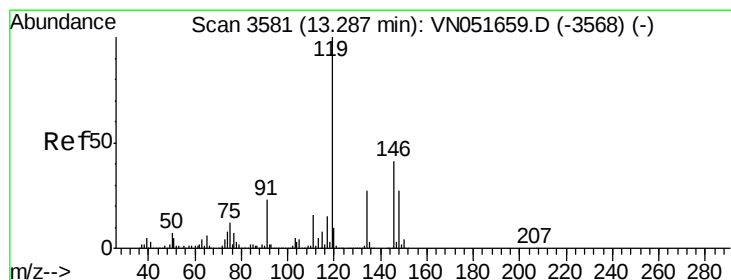
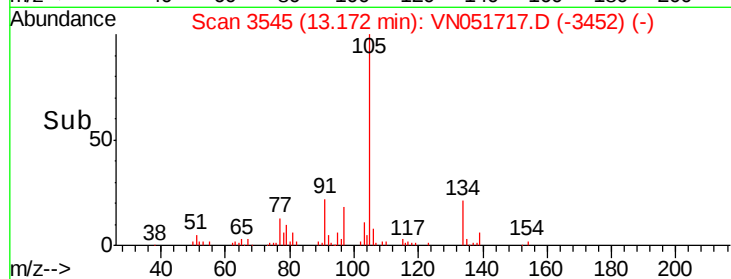
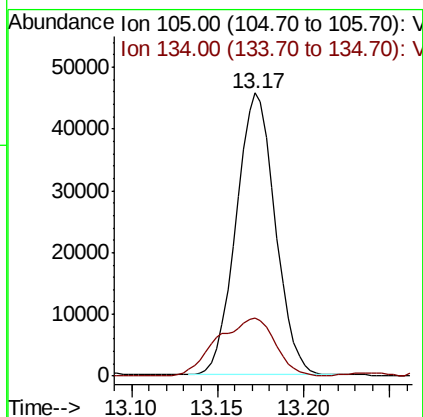
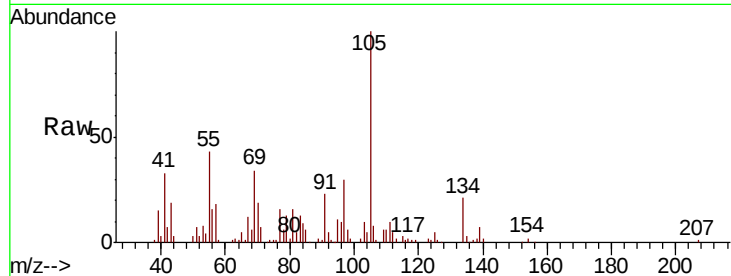
Tgt Ion:105 Resp: 541615
 Ion Ratio Lower Upper
 105 100
 120 45.9 22.9 68.7





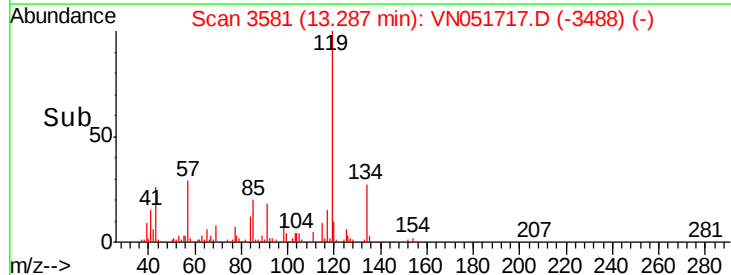
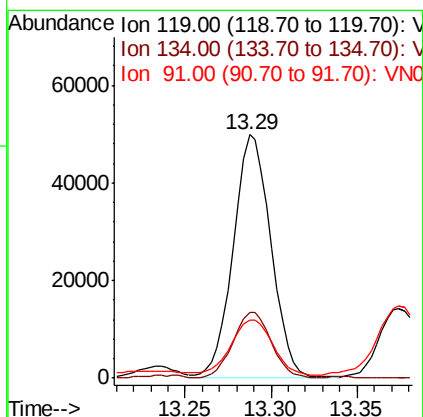
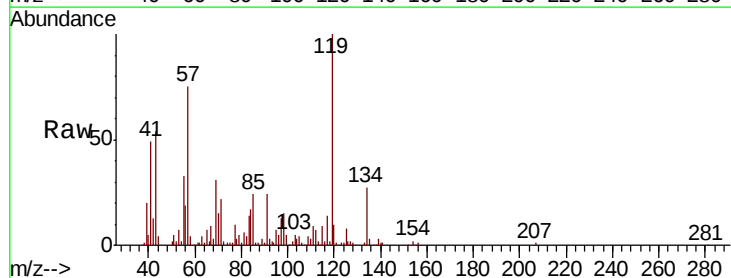
#85
 sec-Butylbenzene
 Concen: 2.390 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

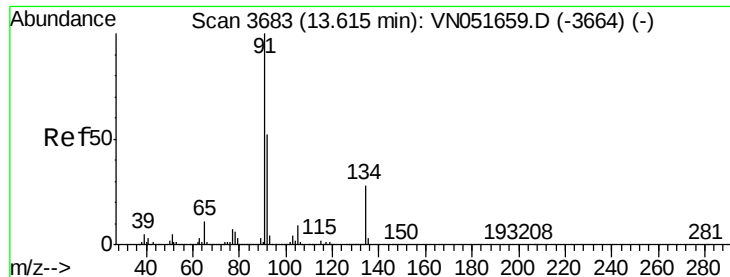
Tot Ion:105 Resp: 72255
 Ion Ratio Lower Upper
 105 100
 134 30.5 10.5 31.6



#86
 p-Isopropyltoluene
 Concen: 2.829 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN051717.D
 Acq: 6 Oct 2018 4:10

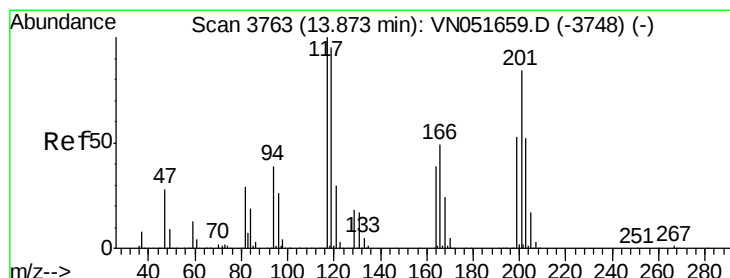
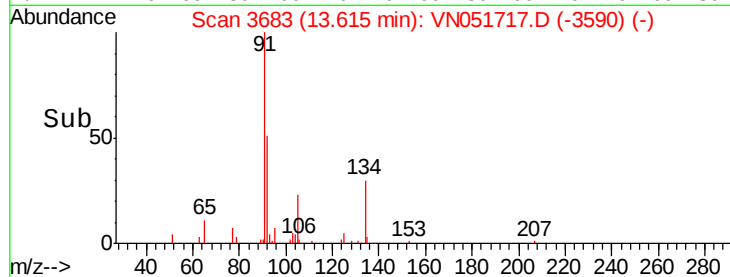
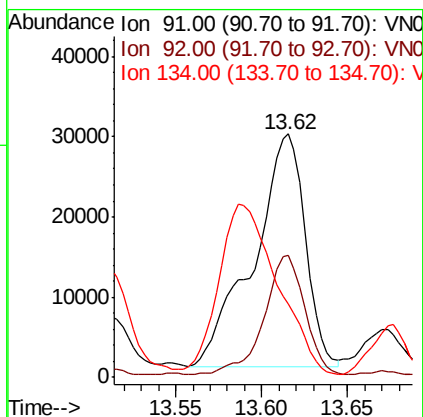
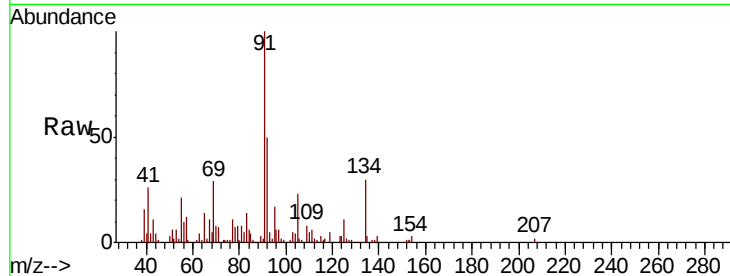
Tgt Ion:119 Resp: 75812
 Ion Ratio Lower Upper
 119 100
 134 27.7 13.4 40.2
 91 24.9 11.7 35.1





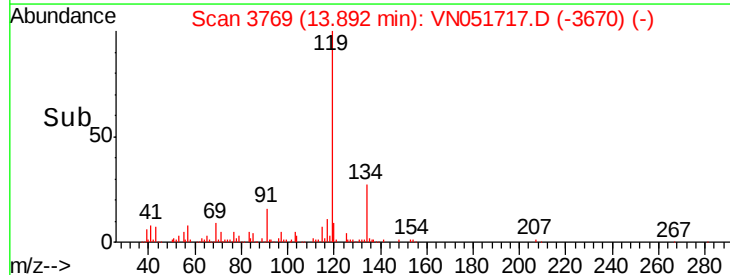
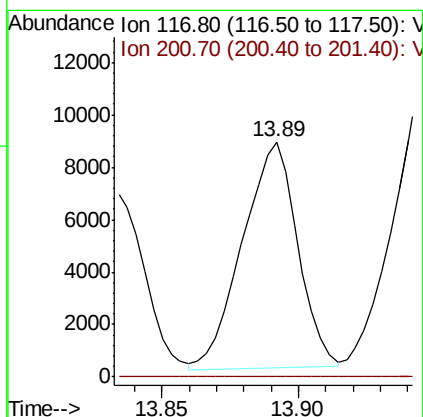
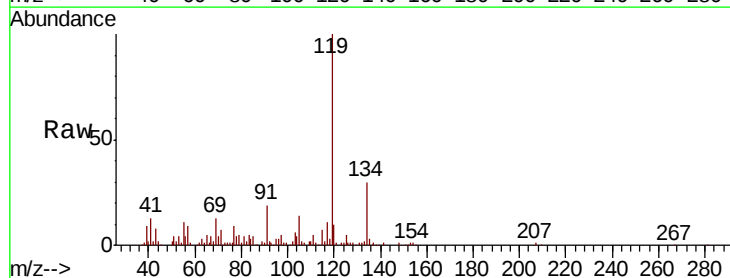
#89
n-Butylbenzene
Concen: 2.840 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

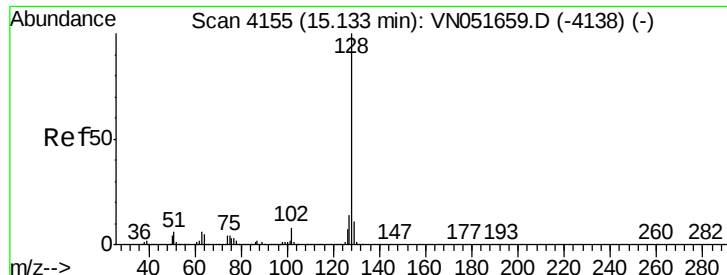
Tot Ion: 91 Resp: 60179
Ion Ratio Lower Upper
91 100
92 41.1 26.0 78.0
134 0.0 14.2 42.6#



#90
Hexachloroethane
Concen: 2.259 ug/l
RT: 13.89 min Scan# 3769
Delta R.T. 0.02 min
Lab File: VN051717.D
Acq: 6 Oct 2018 4:10

Tgt Ion: 117 Resp: 12081
Ion Ratio Lower Upper
117 100
201 0.0 42.4 127.3#





#95

Naphthalene

Concen: 0.262 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051717.D

Acq: 6 Oct 2018 4:10

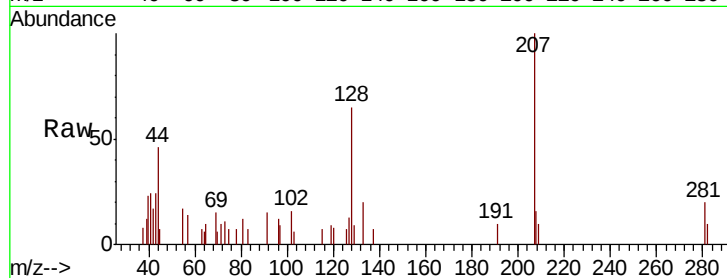
Tot Ion:128 Resp: 3225

Ion Ratio Lower Upper

128 100

127 17.4 10.6 15.8#

129 4.2 9.0 13.6#



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

