

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053445.D
 Acq On : 17 Jan 2019 20:00
 Operator : JC/SP
 Sample : PB116439ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Quant Time: Jan 18 00:13:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	941088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1488362	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1416820	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	631455	50.00	ug/l	0.00

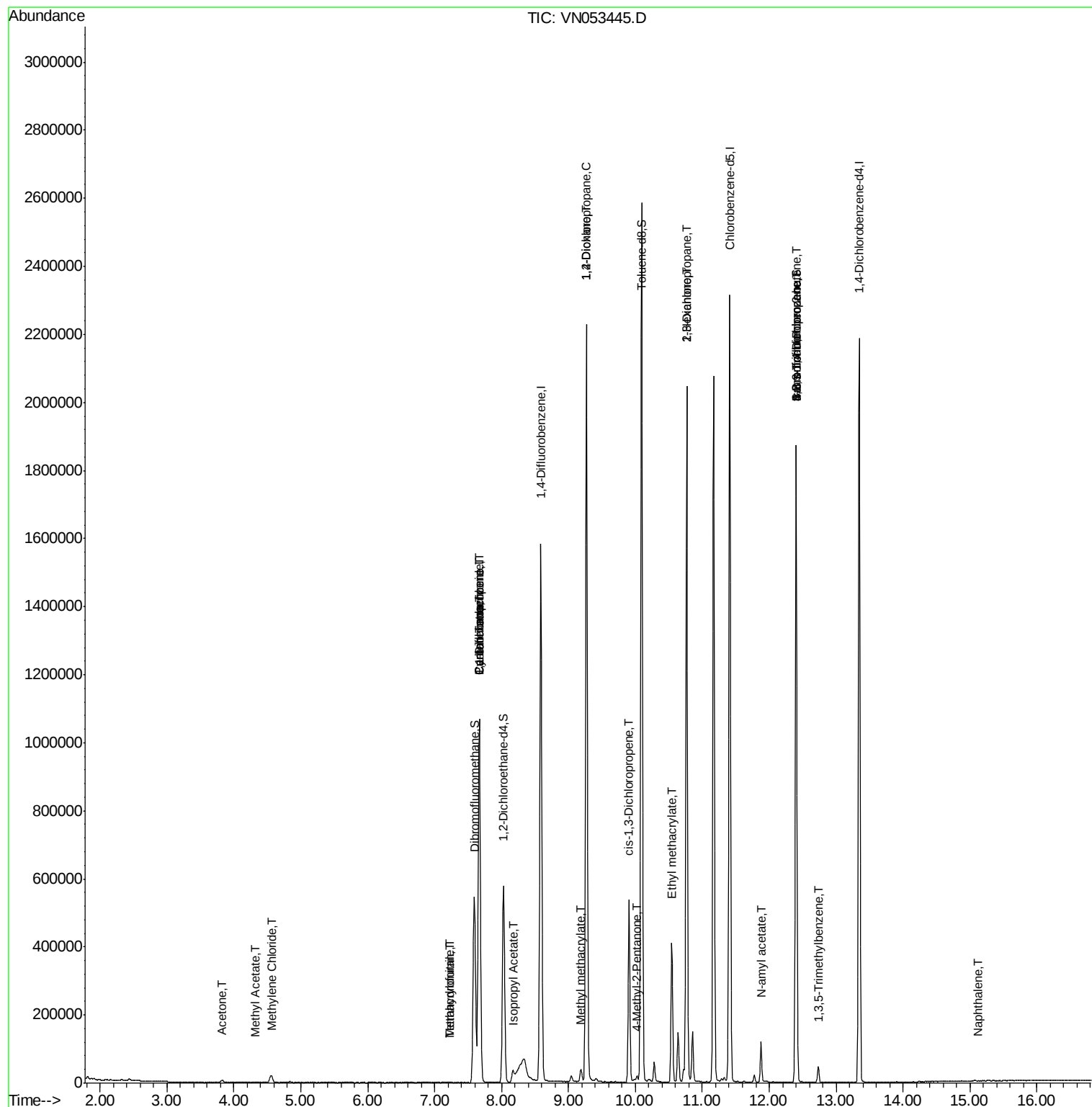
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	482399	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	7.59	113	427244	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
50) Toluene-d8	10.09	98	1853329	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
62) 4-Bromofluorobenzene	12.40	95	648839	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	

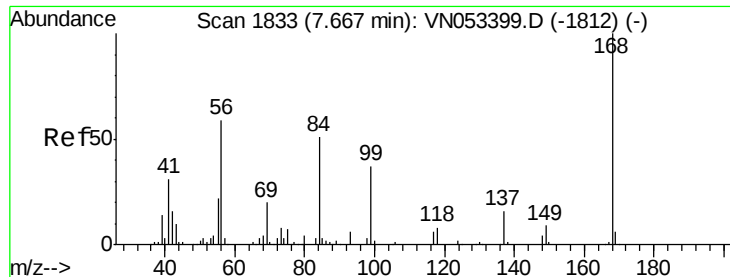
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12362	5.665	ug/l	100
18) Methyl Acetate	4.32	43	1820	0.248	ug/l #	74
20) Methylene Chloride	4.56	84	16562	1.662	ug/l	96
29) Tetrahydrofuran	7.21	42	1946	0.889	ug/l #	53
31) Cyclohexane	7.67	56	15173	0.708	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	60612	4.472	ug/l #	49
38) Carbon Tetrachloride	7.67	117	81667	6.364	ug/l #	17
41) Methacrylonitrile	7.21	41	422	0.757	ug/l #	43
43) Isopropyl Acetate	8.17	43	44526	3.175	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	3003	0.275	ug/l #	43
48) Methyl methacrylate	9.18	41	12208	1.686	ug/l #	12
49) 1,4-Dioxane	9.27	88	274	3.875	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	15322	2.002	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	102038	6.515	ug/l #	61
56) Ethyl methacrylate	10.54	69	1545	2.176	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	21998	1.442	ug/l #	43
59) 2-Hexanone	10.77	43	285931	53.211	ug/l #	50
71) Bromoform	12.40	173	4559	0.635	ug/l #	1
74) N-amyl acetate	11.88	43	34598	2.807	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	302614	36.366	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	24522	0.652	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	302614	89.903	ug/l #	15
95) Naphthalene	15.14	128	460	3.967	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
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: VN053445.D

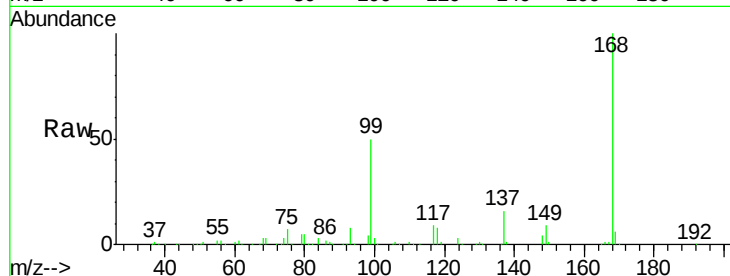
Acq: 17 Jan 2019 20:00

Tot Ion:168 Resp: 941088

Ion Ratio Lower Upper

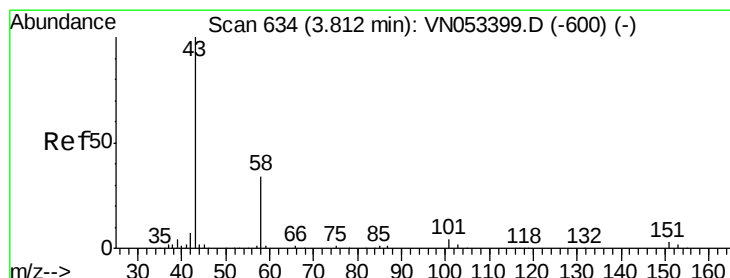
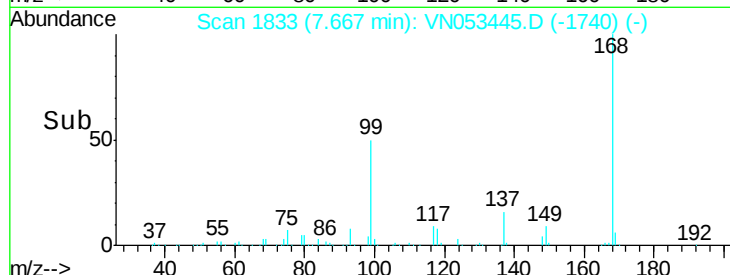
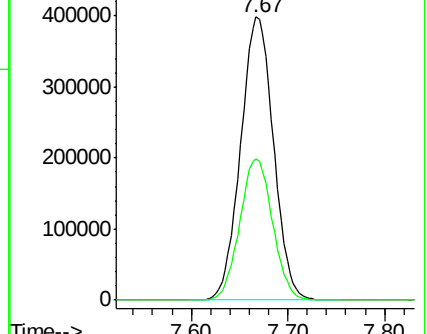
168 100

99 50.0 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 5.665 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053445.D

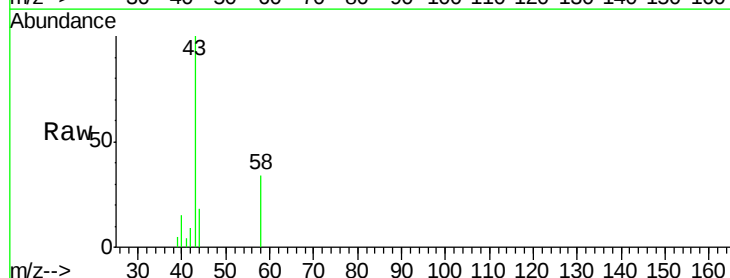
Acq: 17 Jan 2019 20:00

Tgt Ion: 43 Resp: 12362

Ion Ratio Lower Upper

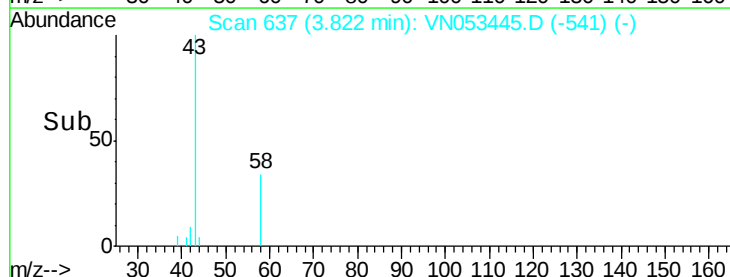
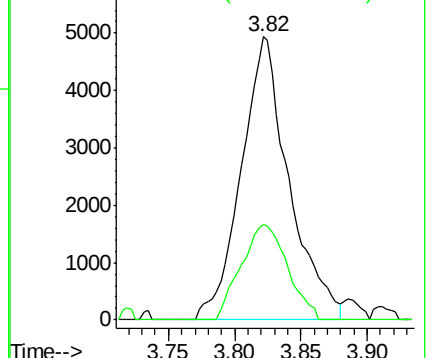
43 100

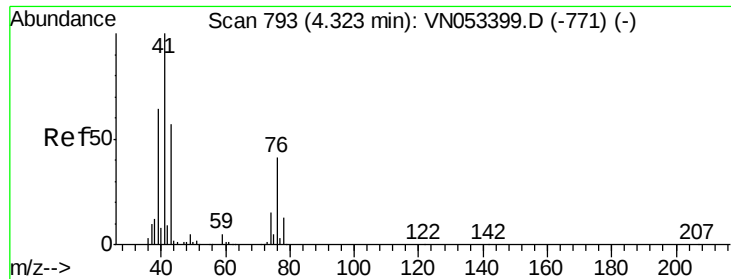
58 33.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

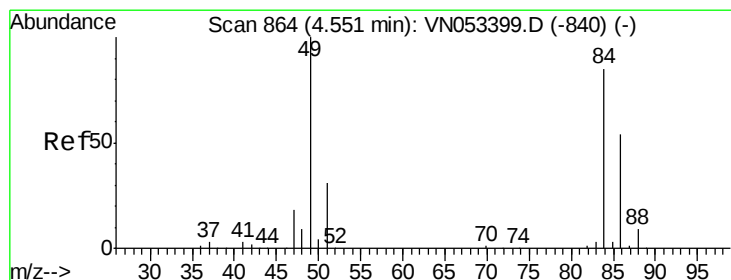
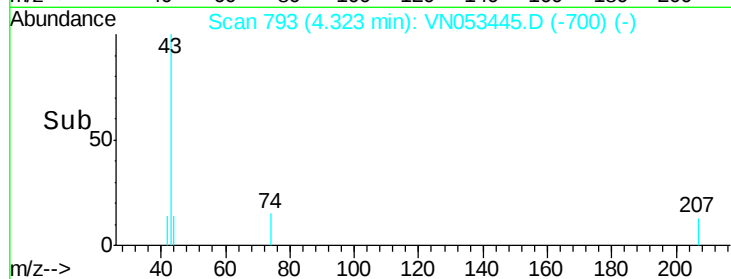
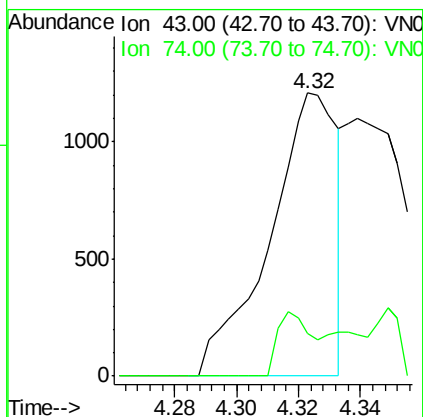
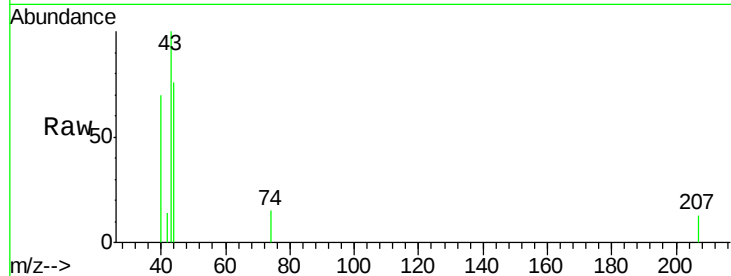
Ion 58.00 (57.70 to 58.70): VNO





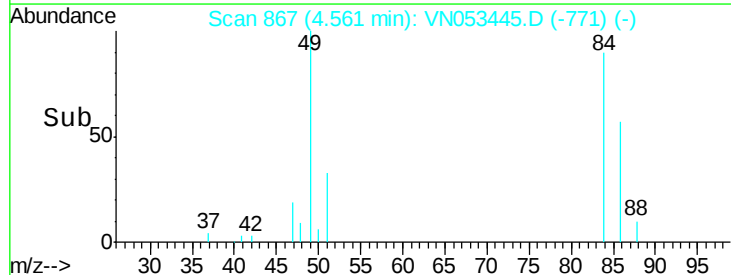
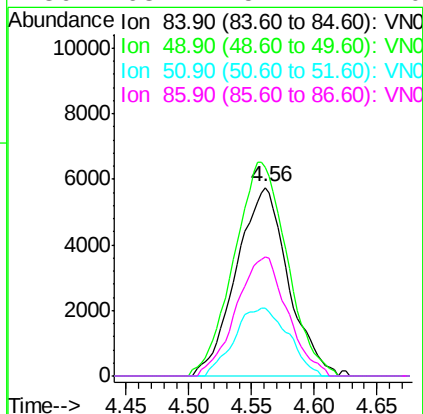
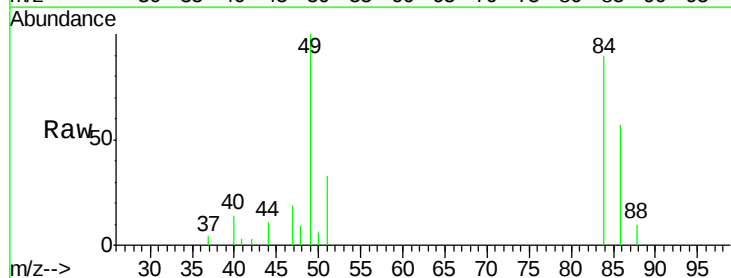
#18
Methvl Acetate
Concen: 0.248 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

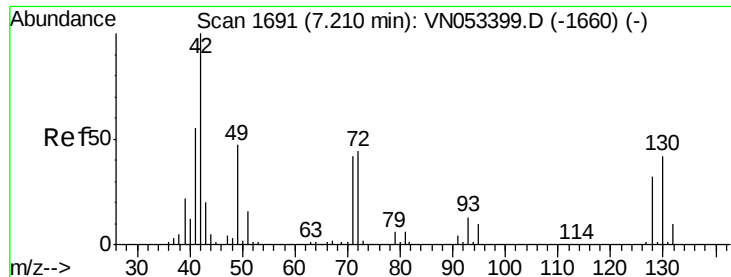
Tot Ion: 43 Resp: 1820
Ion Ratio Lower Upper
43 100
74 11.3 19.4 29.2#



#20
Methylene Chloride
Concen: 1.662 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

Tgt Ion: 84 Resp: 16562
Ion Ratio Lower Upper
84 100
49 110.5 94.3 141.5
51 36.1 29.4 44.2
86 63.2 51.4 77.0





#29

Tetrahydrofuran

Concen: 0.889 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

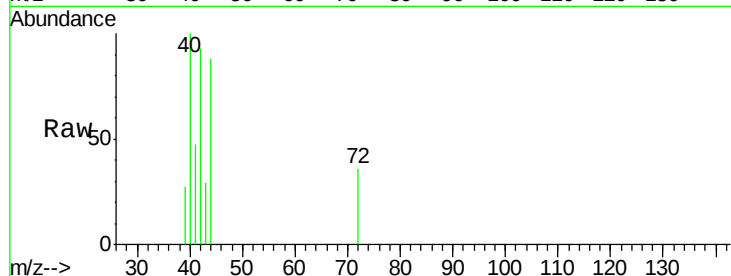
Tot Ion: 42 Resp: 1946

Ion Ratio Lower Upper

42 100

72 17.5 35.2 52.8#

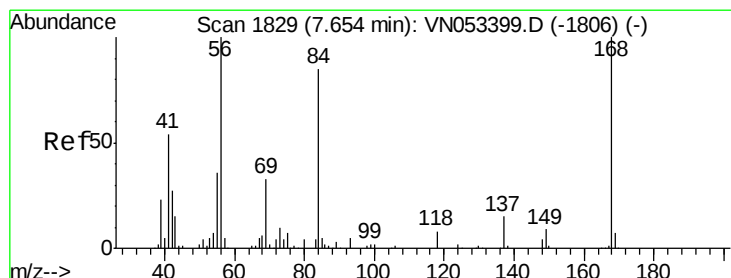
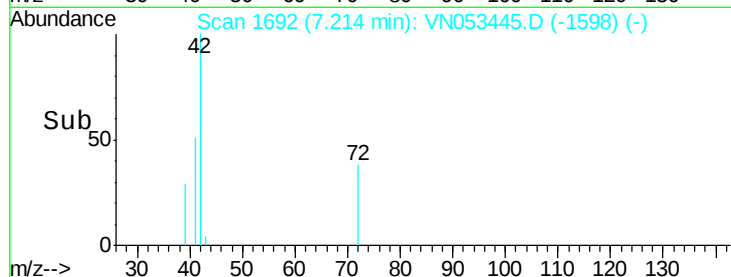
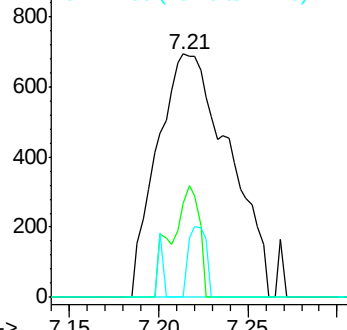
71 7.2 33.0 49.4#



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: 0.708 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

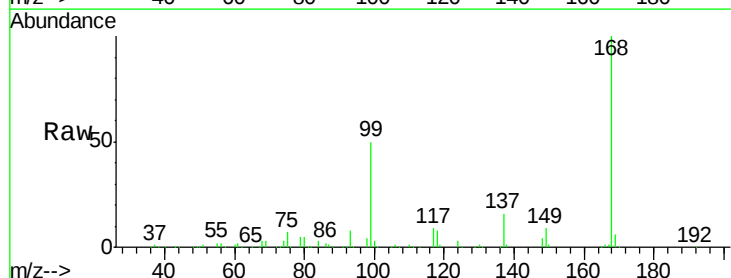
Tgt Ion: 56 Resp: 15173

Ion Ratio Lower Upper

56 100

69 192.3 26.4 39.6#

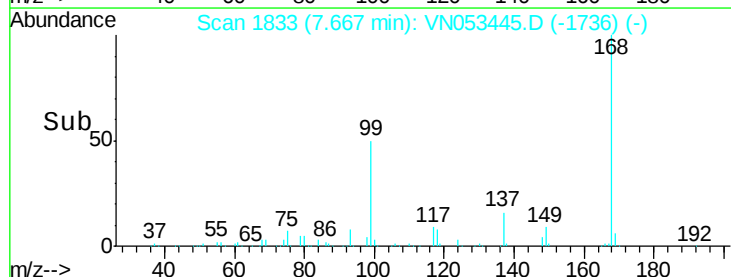
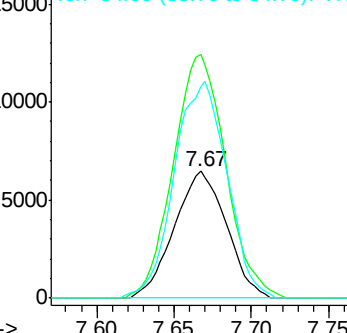
84 167.4 67.9 101.9#

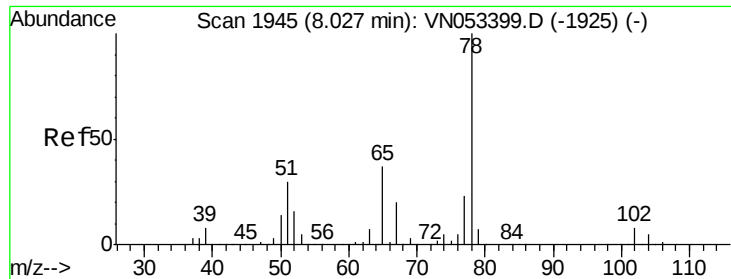


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053445.D

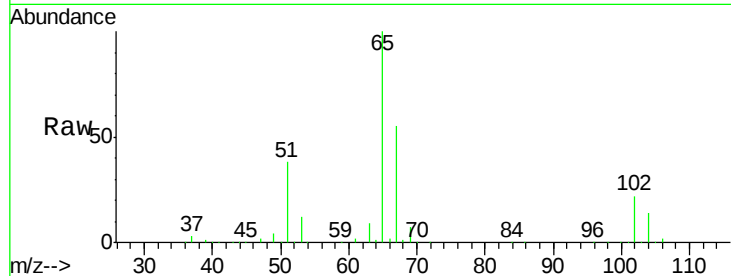
Acq: 17 Jan 2019 20:00

Tot Ion: 65 Resp: 482399

Ion Ratio Lower Upper

65 100

67 55.2 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

200000

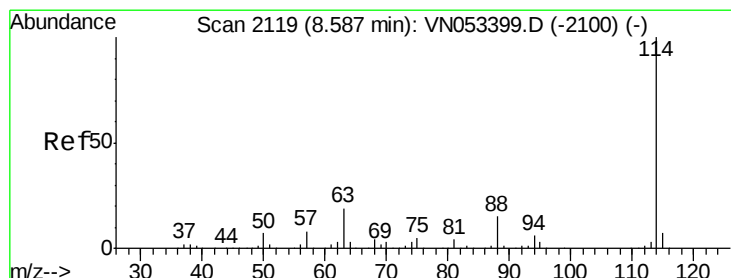
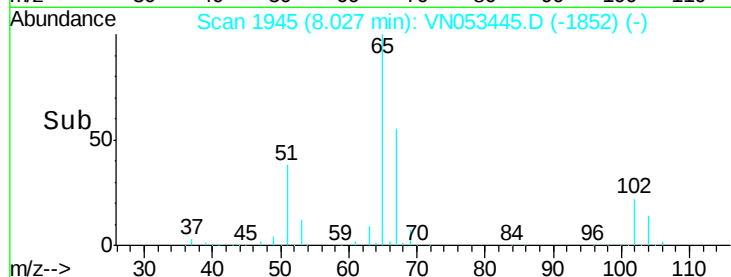
150000

100000

50000

0

Time--> 7.90



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

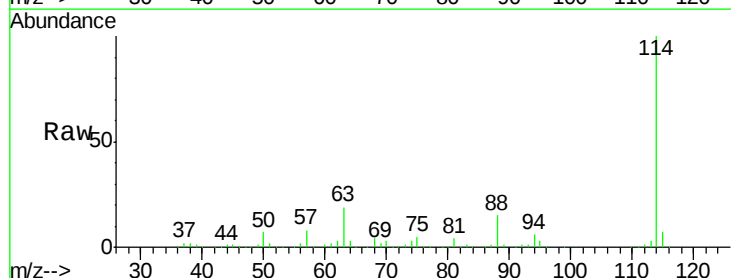
Tgt Ion: 114 Resp: 1488362

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

1000000

800000

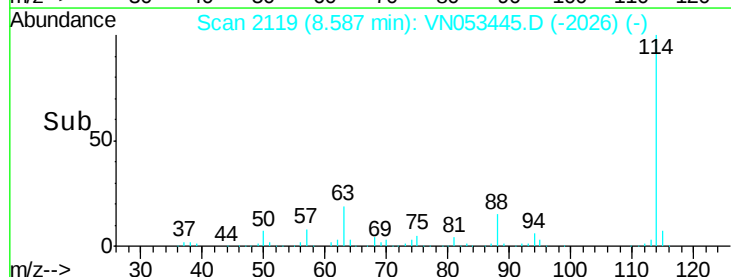
600000

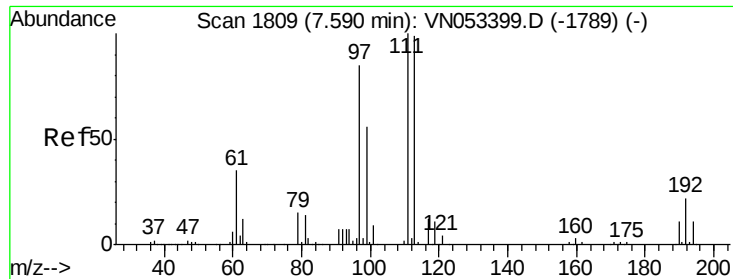
400000

200000

0

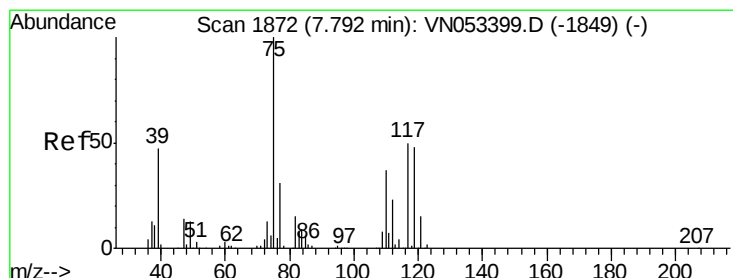
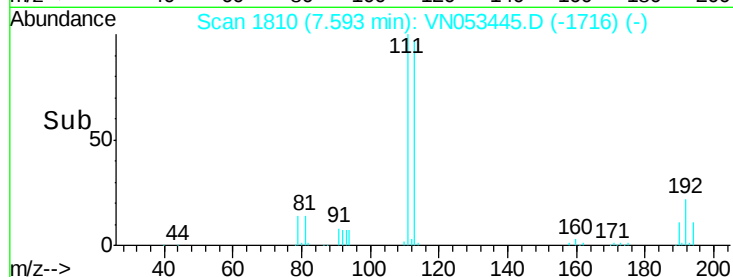
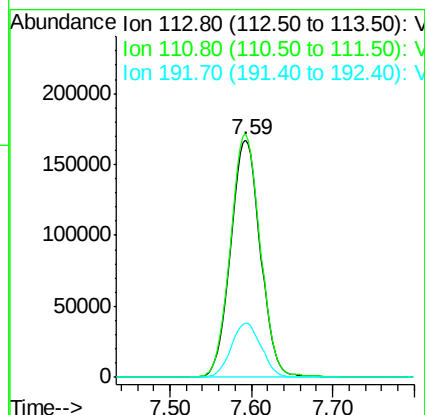
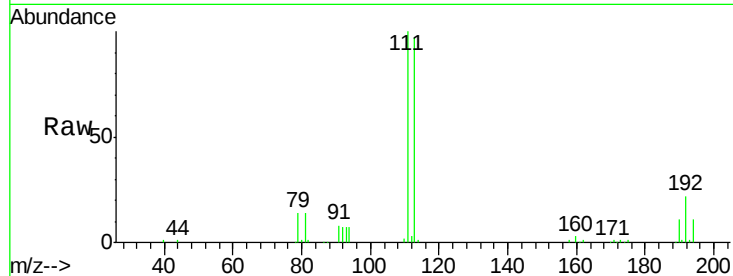
Time--> 8.50





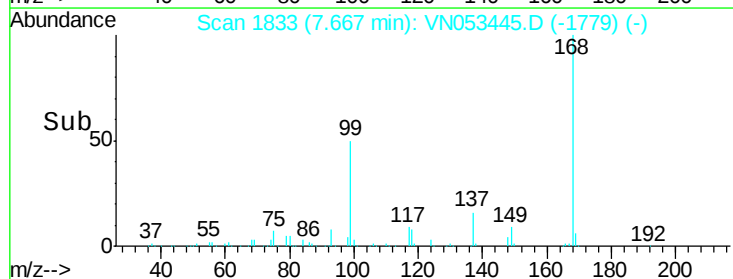
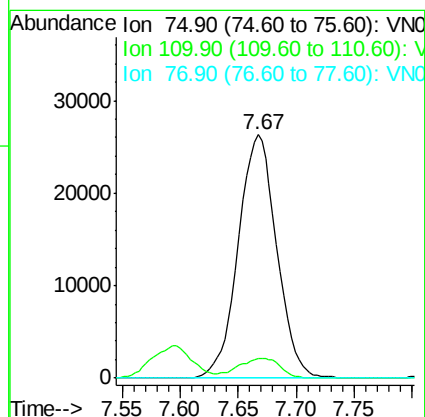
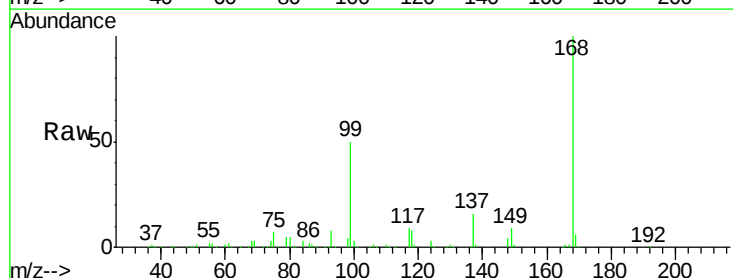
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053445.D
 Acq: 17 Jan 2019 20:00

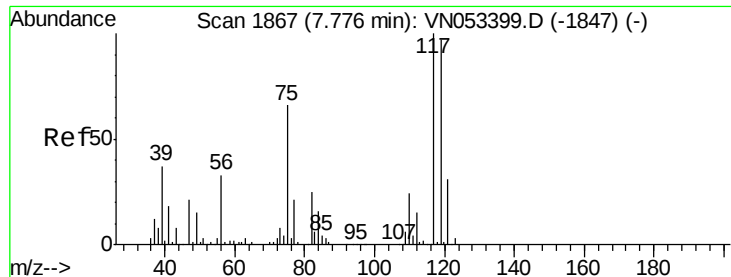
Tot Ion:113 Resp: 427244
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.1 121.7
 192 23.0 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 4.472 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053445.D
 Acq: 17 Jan 2019 20:00

Tgt Ion: 75 Resp: 60612
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.364 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

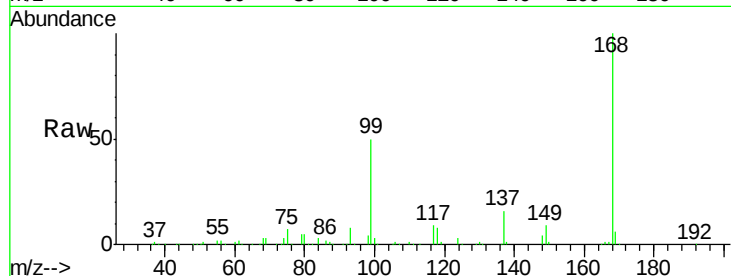
Tot Ion: 117 Resp: 81667

Ion Ratio Lower Upper

117 100

119 6.2 77.2 115.8#

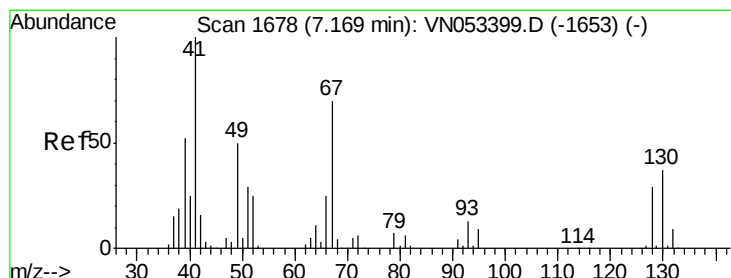
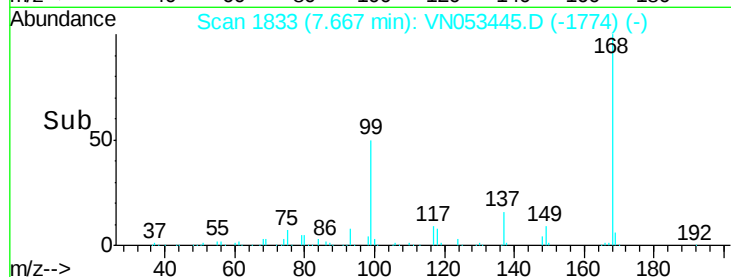
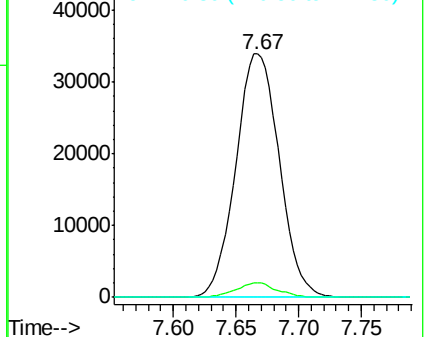
121 0.0 24.6 37.0#



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: 0.757 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.05 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

Tgt Ion: 41 Resp: 422

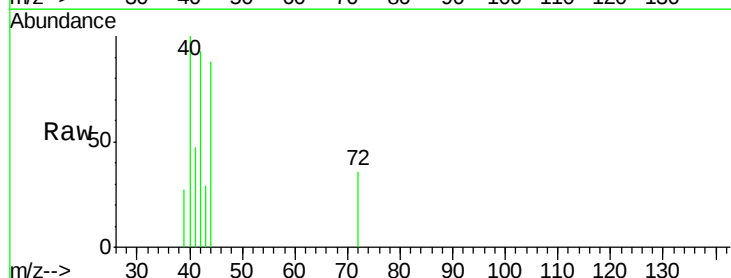
Ion Ratio Lower Upper

41 100

39 69.2 46.8 70.2

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

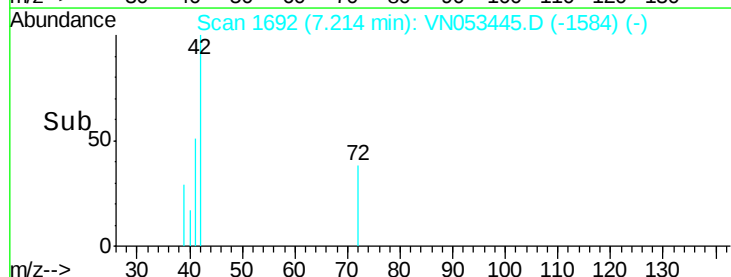
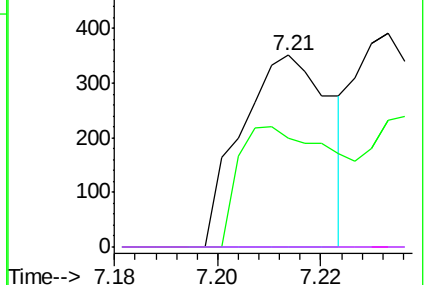


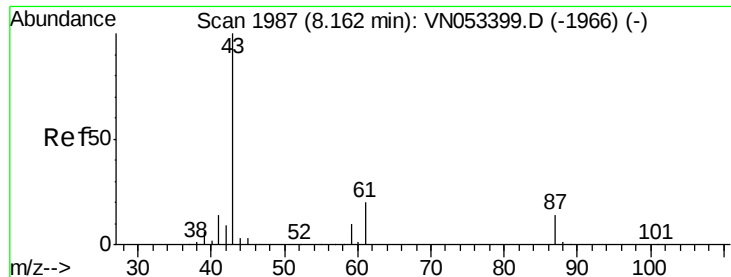
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 3.175 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

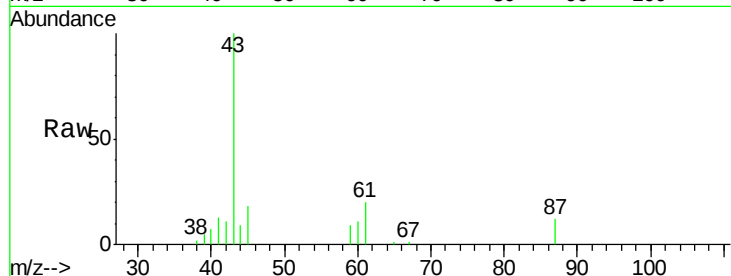
Tot Ion: 43 Resp: 44526

Ion Ratio Lower Upper

43 100

61 17.9 23.9 35.9#

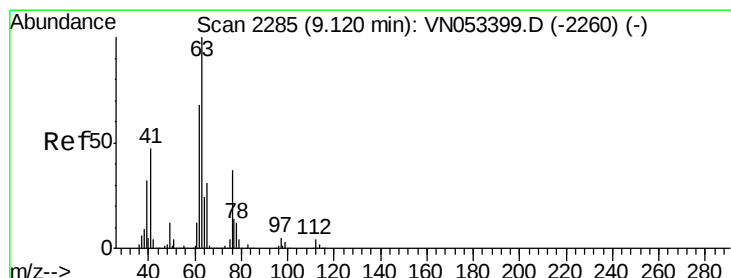
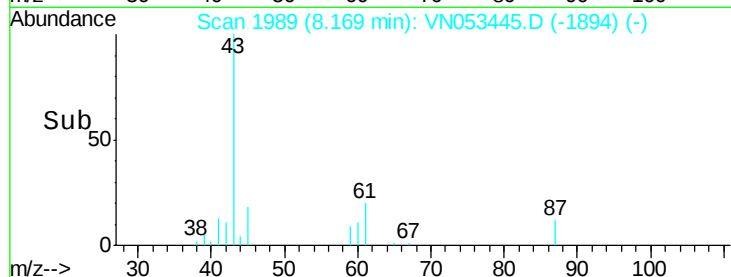
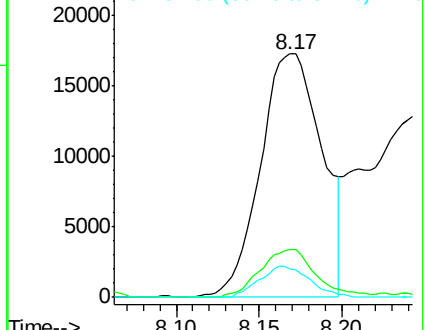
87 10.5 11.0 16.6#



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



#45

1,2-Dichloropropane

Concen: 0.275 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053445.D

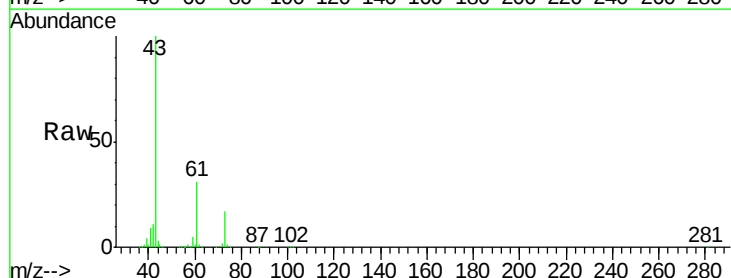
Acq: 17 Jan 2019 20:00

Tgt Ion: 63 Resp: 3003

Ion Ratio Lower Upper

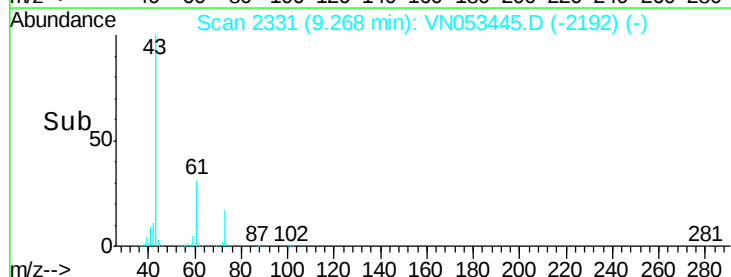
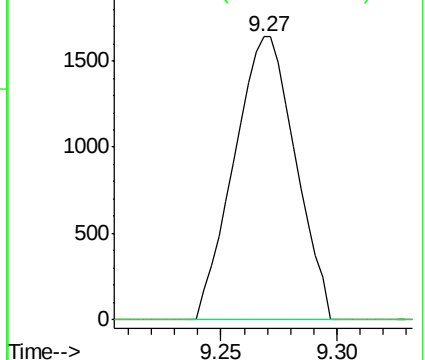
63 100

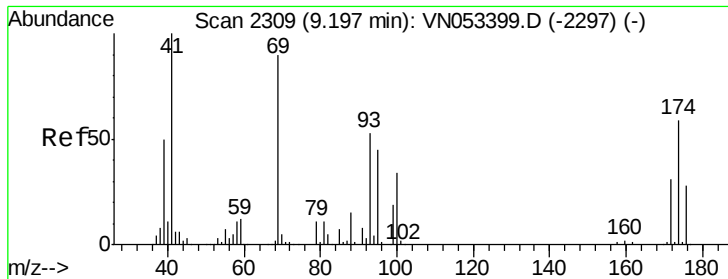
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 1.686 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

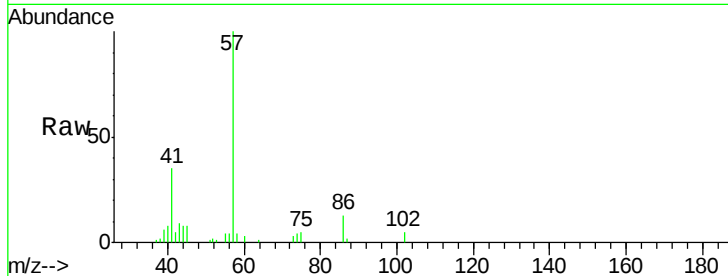
Tot Ion: 41 Resp: 12208

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

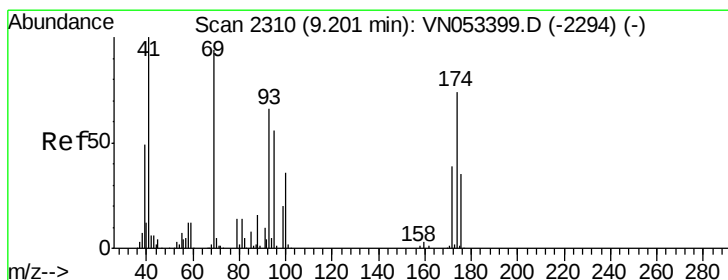
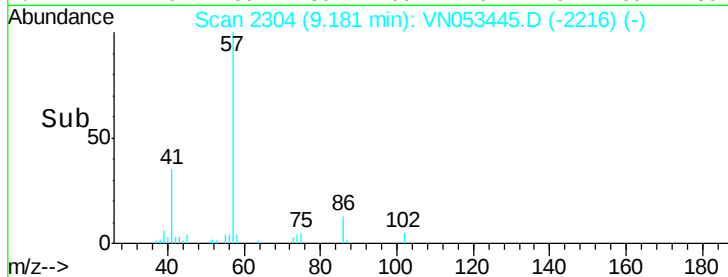
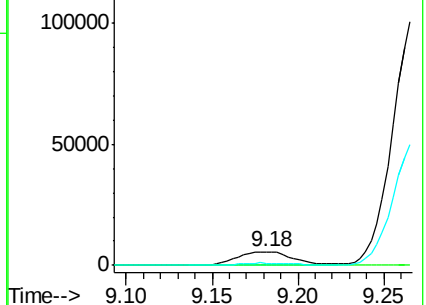
39 0.0 40.0 60.0#



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



#49

1,4-Dioxane

Concen: 3.875 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

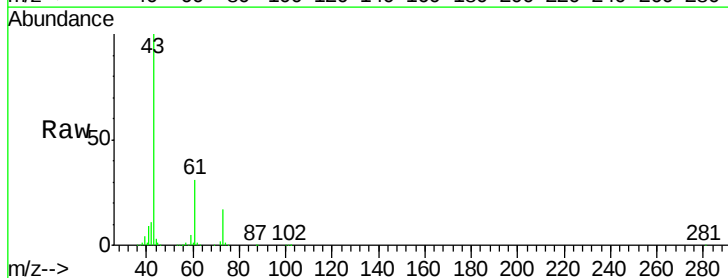
Tgt Ion: 88 Resp: 274

Ion Ratio Lower Upper

88 100

43 789006.9 27.8 41.6#

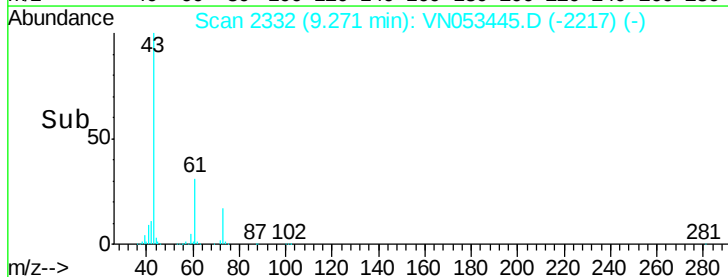
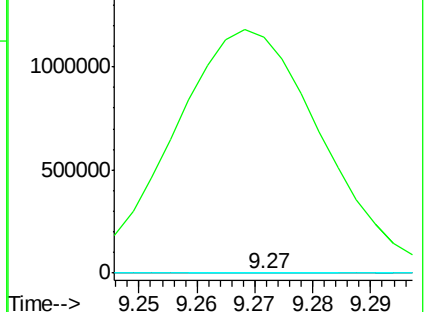
58 3651.8 56.5 84.7#

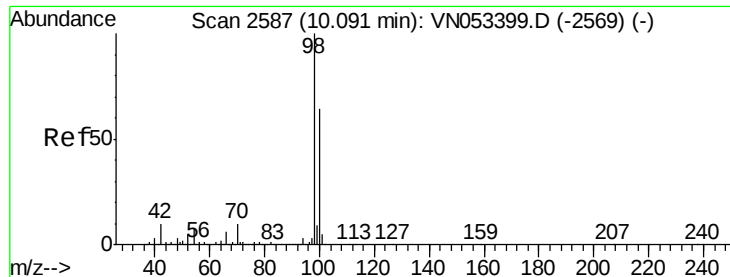


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

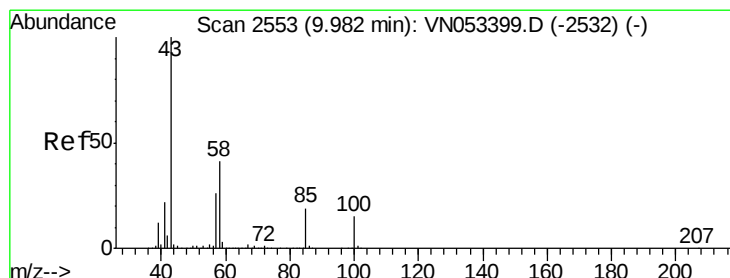
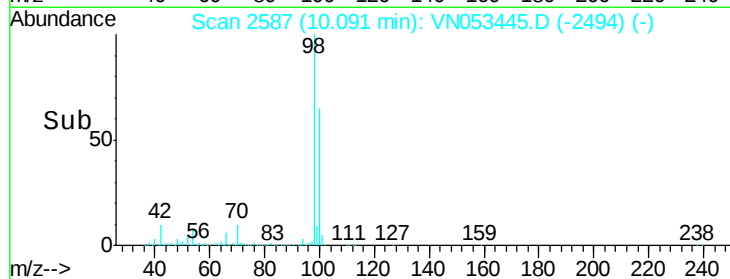
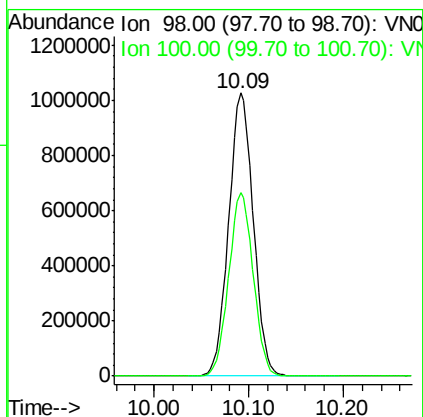
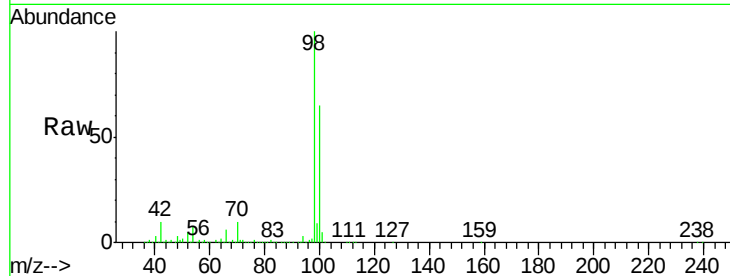
Ion 58.00 (57.70 to 58.70): VN0





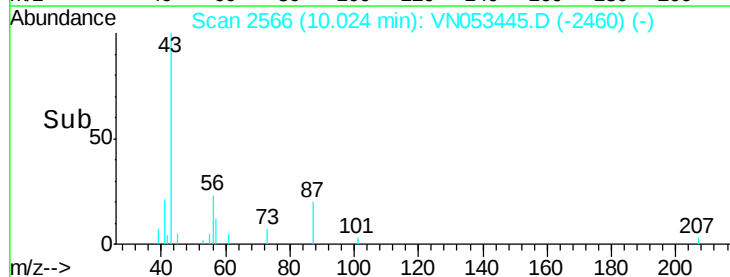
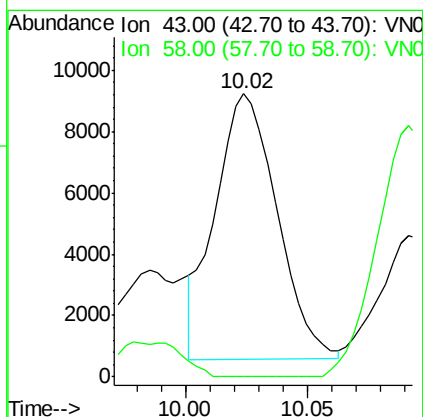
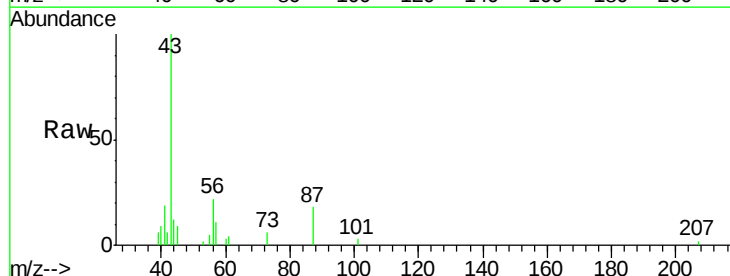
#50
Toluene-d8
Concen: 3.875 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

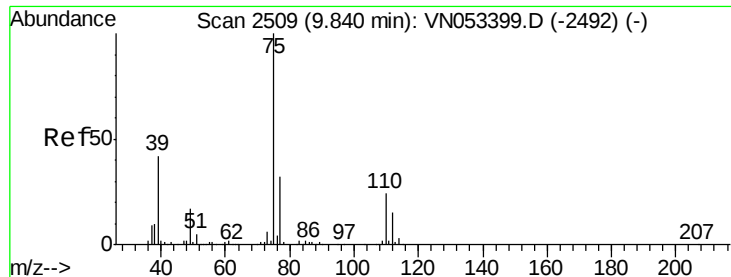
Tot Ion: 98 Resp: 1853329
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 2.002 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

Tgt Ion: 43 Resp: 15322
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 6.515 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

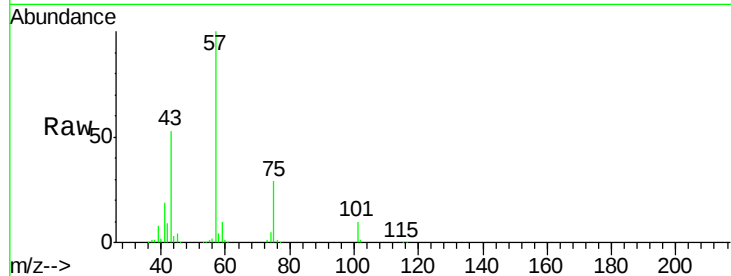
Tot Ion: 75 Resp: 102038

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

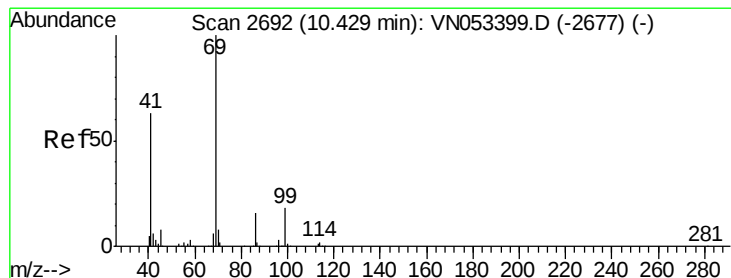
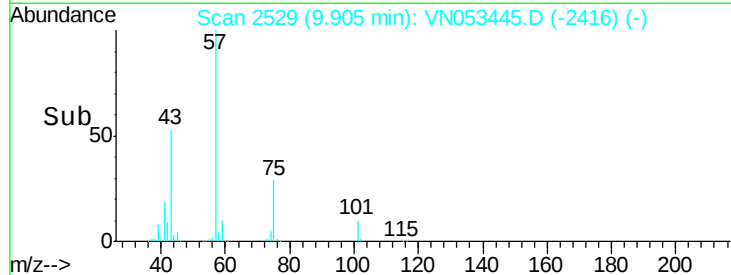
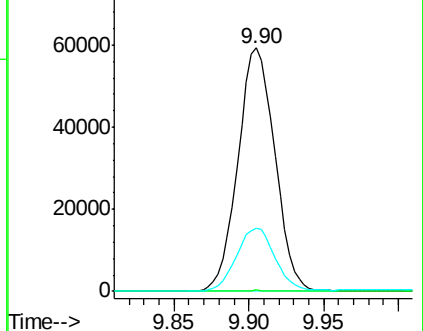
39 25.7 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 2.176 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

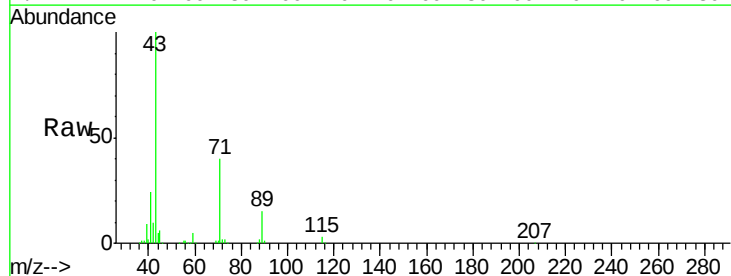
Tgt Ion: 69 Resp: 1545

Ion Ratio Lower Upper

69 100

41 4611.5 49.4 74.0#

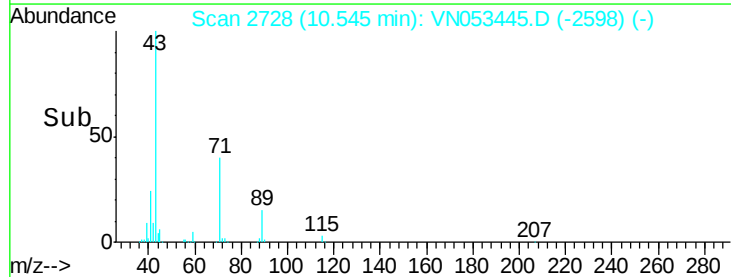
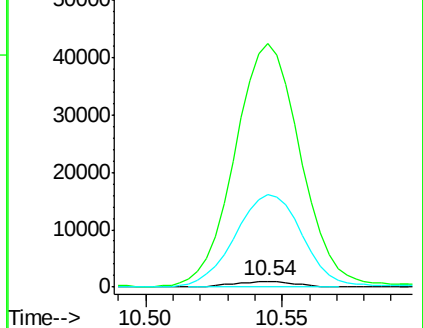
39 1809.1 23.3 34.9#

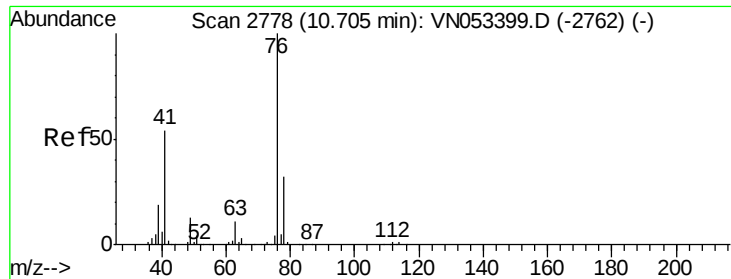


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.442 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053445.D

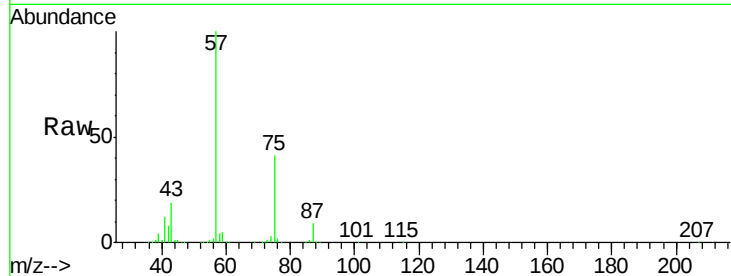
Acq: 17 Jan 2019 20:00

Tot Ion: 76 Resp: 21998

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

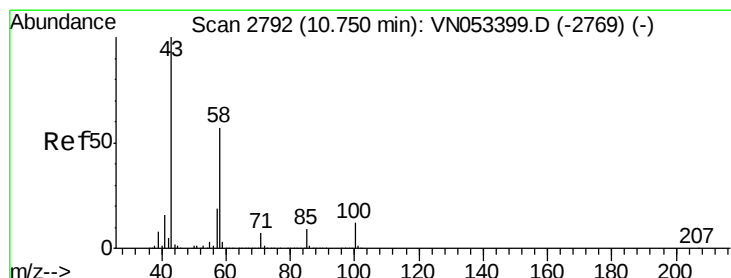
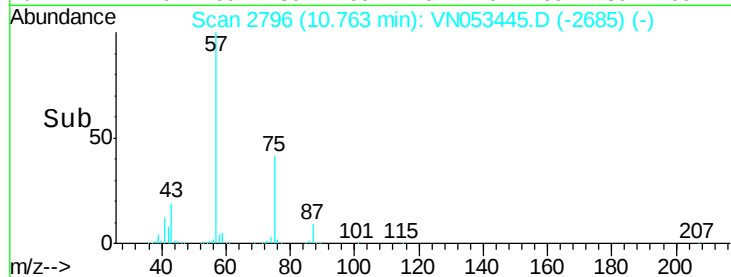
15000

10000

5000

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 53.211 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN053445.D

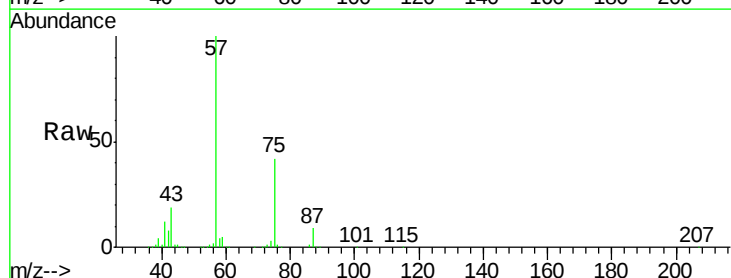
Acq: 17 Jan 2019 20:00

Tgt Ion: 43 Resp: 285931

Ion Ratio Lower Upper

43 100

58 20.5 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.77

200000

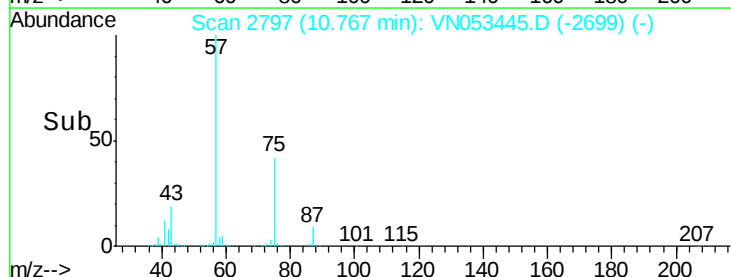
150000

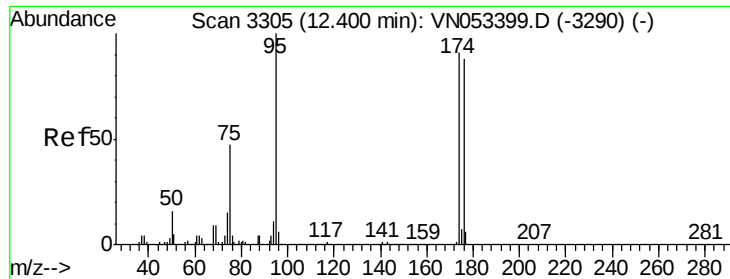
100000

50000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

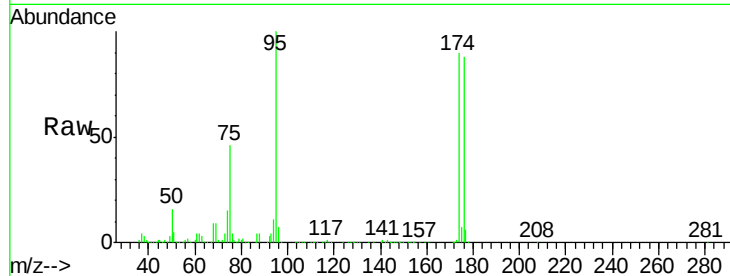
Tot Ion: 95 Resp: 648839

Ion Ratio Lower Upper

95 100

174 91.9 0.0 183.2

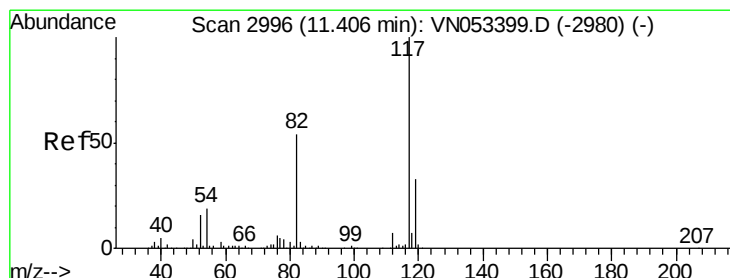
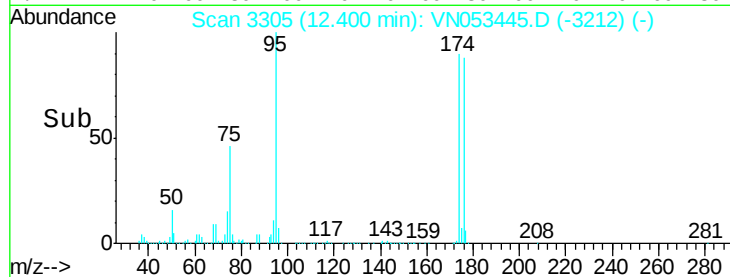
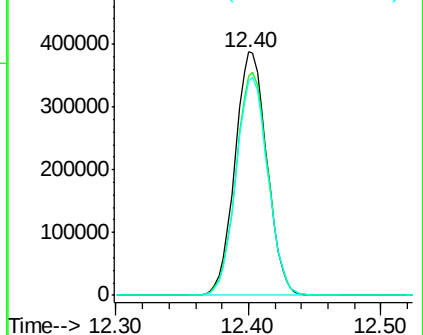
176 89.3 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053399.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053399.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053399.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

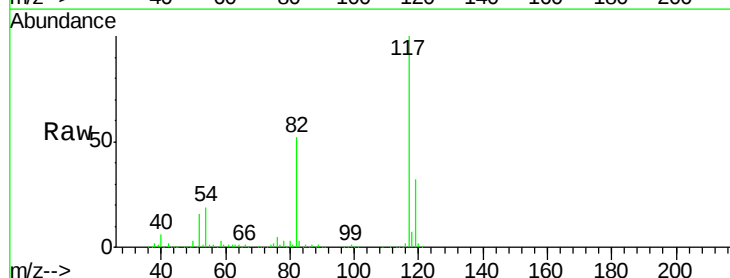
Tgt Ion: 117 Resp: 1416820

Ion Ratio Lower Upper

117 100

82 52.5 42.9 64.3

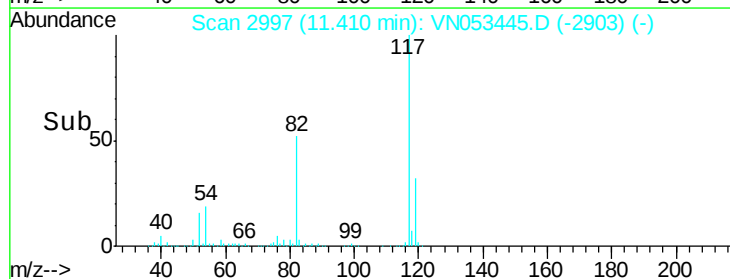
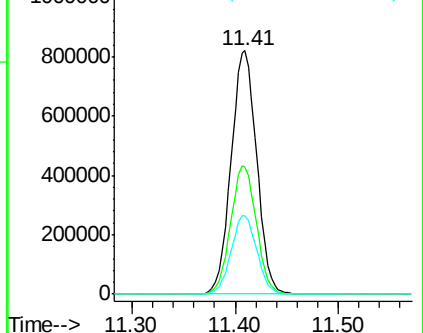
119 32.4 26.0 39.0

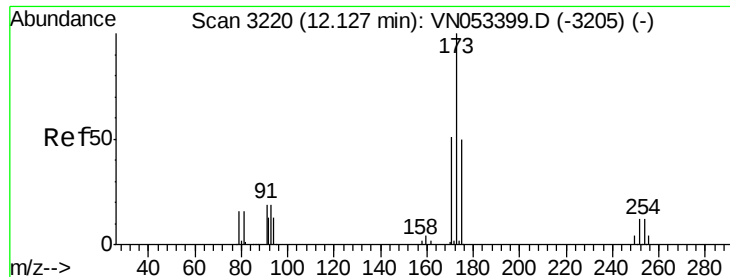


Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053399.D (-2980) (-)

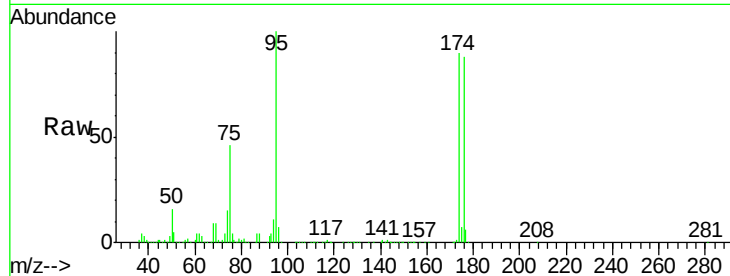
Ion 118.90 (118.60 to 119.60): VN053399.D (-2980) (-)



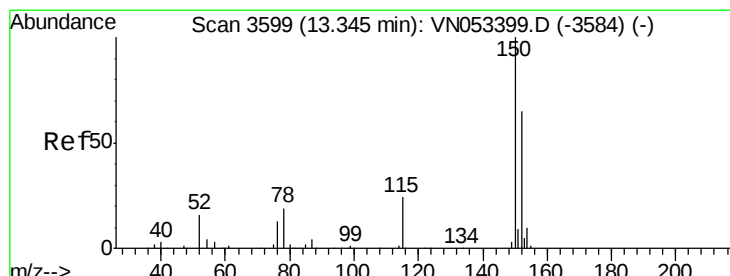
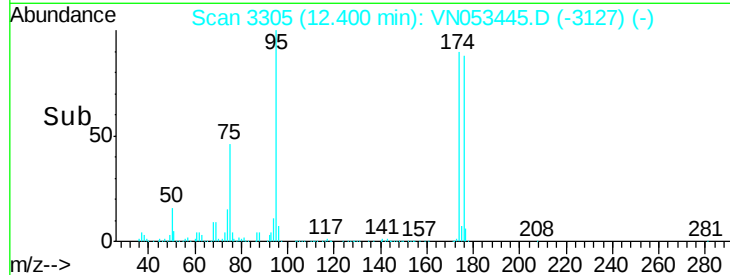
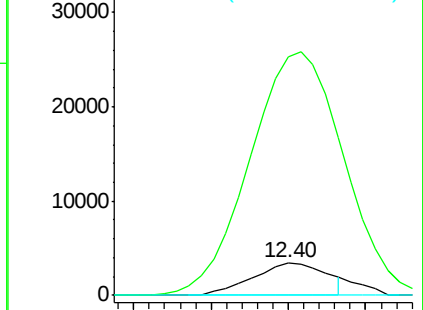


#71
Bromoform
Concen: 0.635 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

Tot Ion:173 Resp: 4559
Ion Ratio Lower Upper
173 100
175 827.5 24.6 74.0#
254 0.0 0.2 0.2#

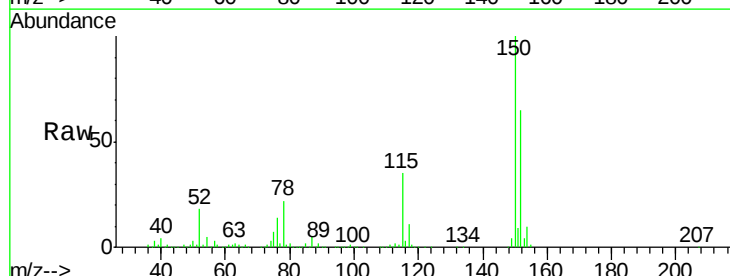


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

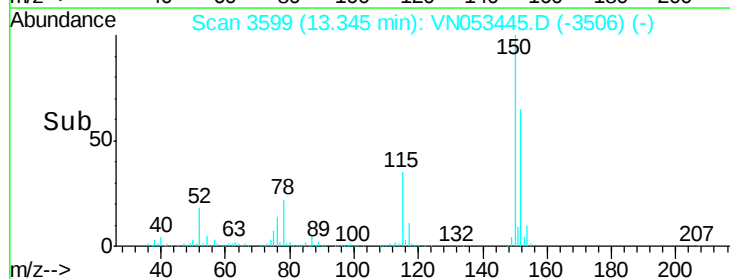
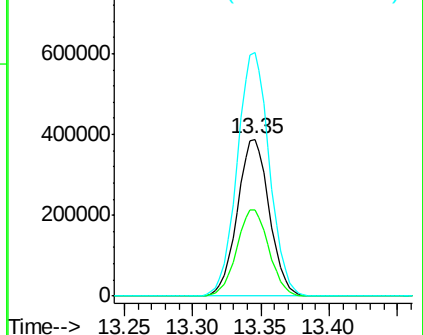


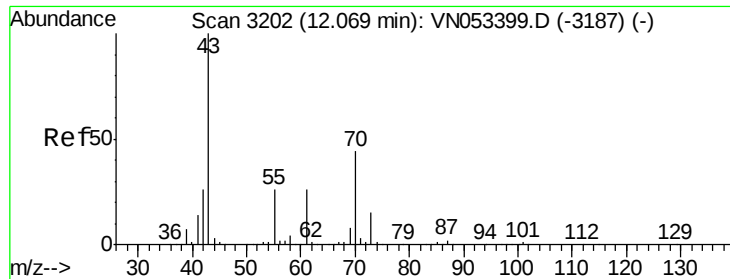
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

Tgt Ion:152 Resp: 631455
Ion Ratio Lower Upper
152 100
115 55.3 27.8 83.4
150 156.4 0.0 349.0



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





#74

N-amvl acetate

Concen: 2.807 ug/l

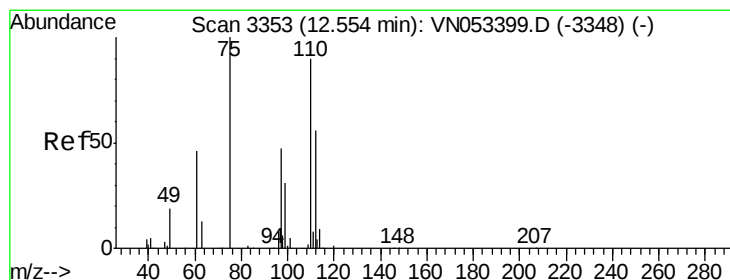
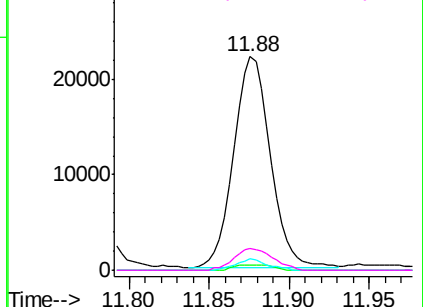
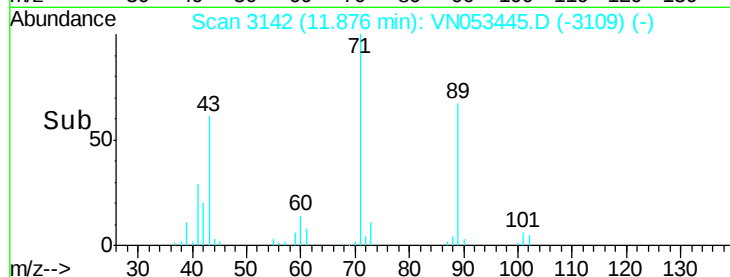
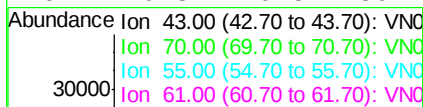
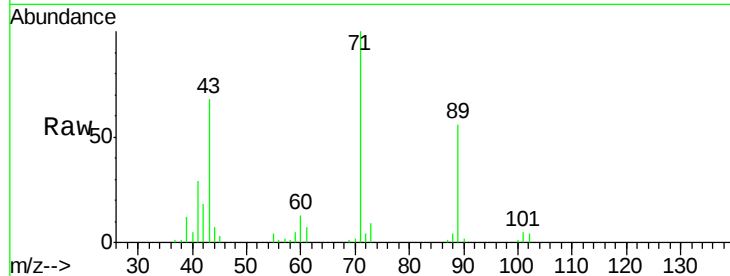
RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

Tot Ion:	43	Resp:	34598
Ion	Ratio	Lower	Upper
43	100		
70	2.6	35.4	53.2#
55	4.6	20.9	31.3#
61	10.8	20.5	30.7#



#76

1,2,3-Trichloropropane

Concen: 36.366 ug/l

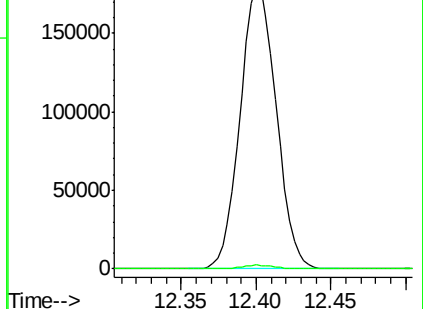
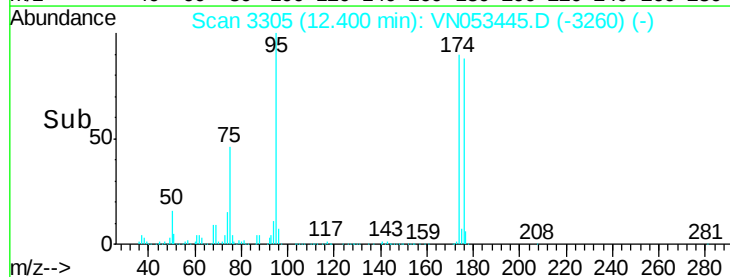
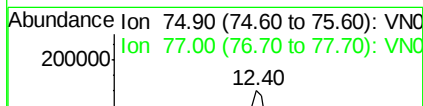
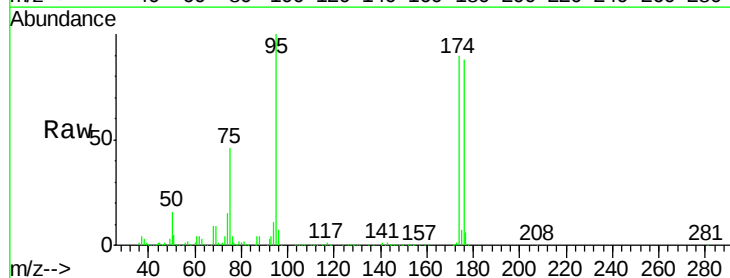
RT: 12.40 min Scan# 3305

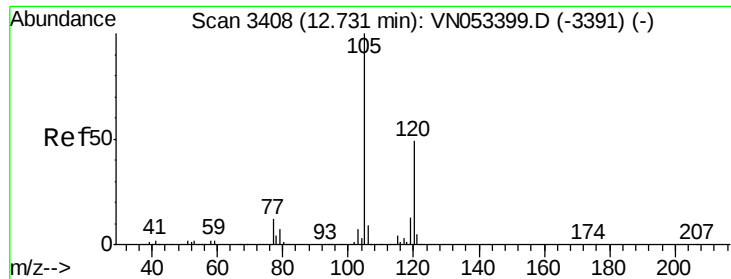
Delta R.T. -0.15 min

Lab File: VN053445.D

Acq: 17 Jan 2019 20:00

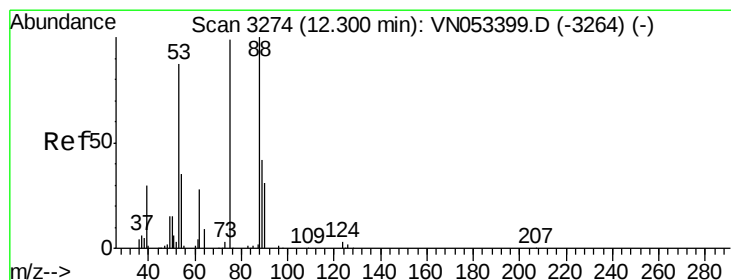
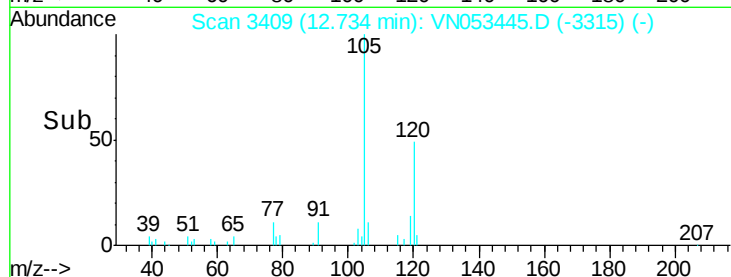
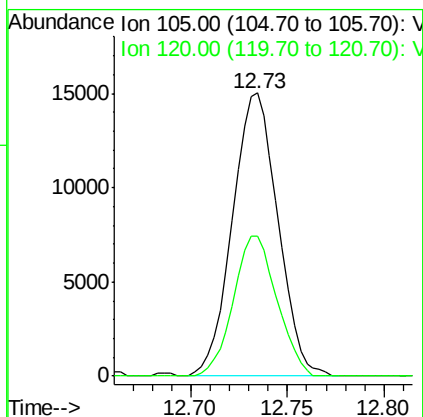
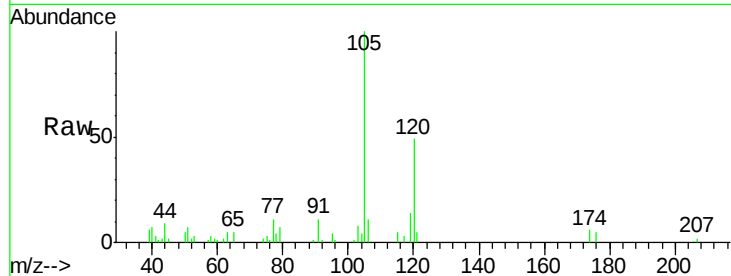
Tgt Ion:	75	Resp:	302614
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#





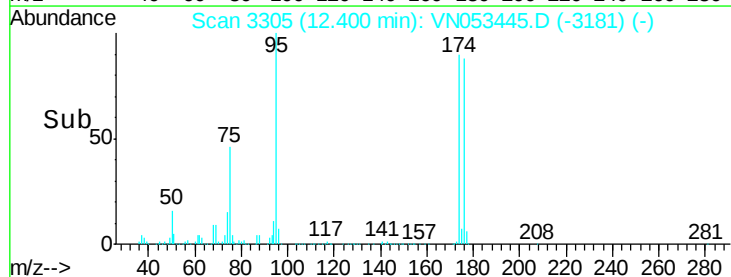
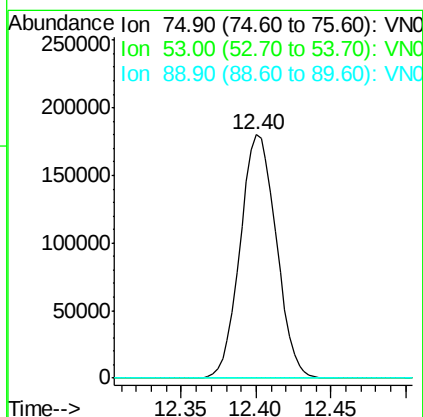
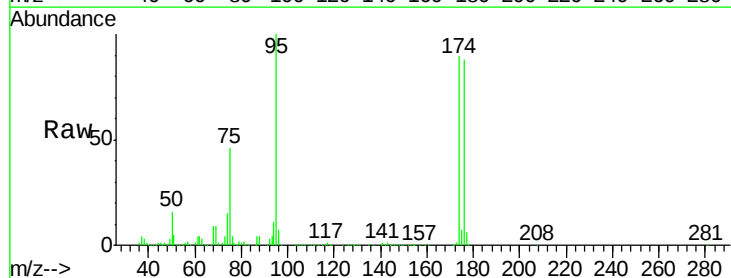
#80
 1,3,5-Trimethylbenzene
 Concen: 0.652 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN053445.D
 Acq: 17 Jan 2019 20:00

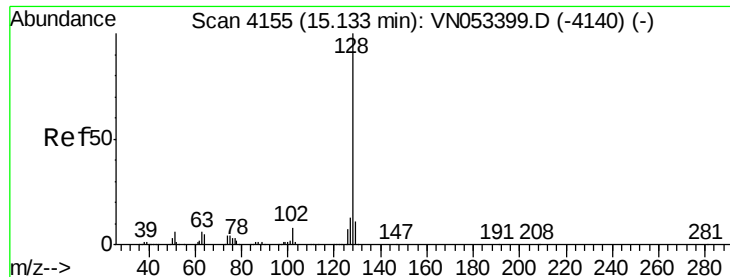
Tot Ion:105 Resp: 24522
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 89.903 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053445.D
 Acq: 17 Jan 2019 20:00

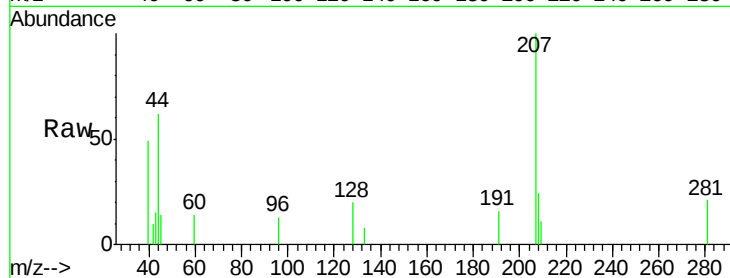
Tgt Ion: 75 Resp: 302614
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#





#95
Naphthalene
Concen: 3.967 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN053445.D
Acq: 17 Jan 2019 20:00

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

