

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054216.D
 Acq On : 13 Mar 2019 16:59
 Operator : JC/SP
 Sample : K1842-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 05:18:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1395406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2250670	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2360895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	964670	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	725043	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	7.59	113	692310	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	10.09	98	2807997	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	
62) 4-Bromofluorobenzene	12.40	95	1054566	56.22	ug/l	0.00
Spiked Amount			Recovery	=	112.44%	

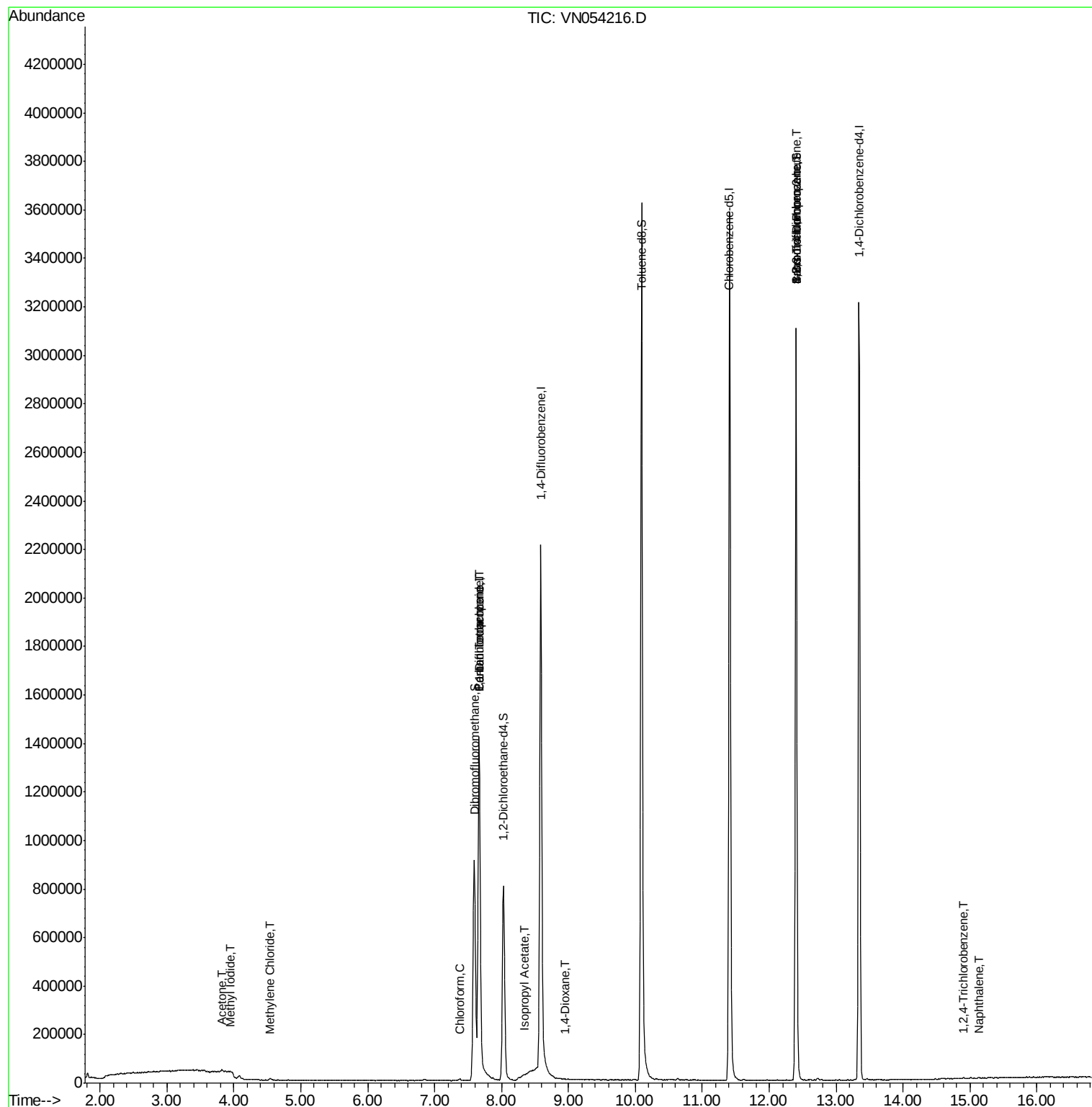
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.96	142	165	1.505	ug/l #	38
16) Acetone	3.82	43	10594	2.497	ug/l	97
20) Methylene Chloride	4.54	84	3755	0.270	ug/l #	76
30) Chloroform	7.38	83	7323	0.294	ug/l	93
31) Cyclohexane	7.67	56	21187	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	80562	3.887	ug/l #	48
38) Carbon Tetrachloride	7.66	117	111437	5.127	ug/l #	16
43) Isopropyl Acetate	8.33	43	34251	1.638	ug/l #	60
49) 1,4-Dioxane	8.95	88	65	0.433	ug/l #	27
71) Bromoform	12.40	173	6427	2.777	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	510668	35.998	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	510668	123.058	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.90	180	753	2.552	ug/l #	75
95) Naphthalene	15.14	128	1561	3.504	ug/l #	85

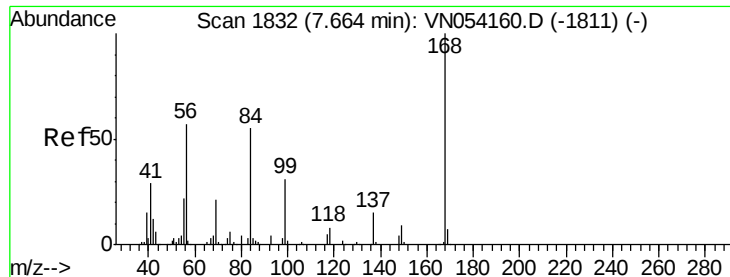
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Instrument :

MSVOA_N

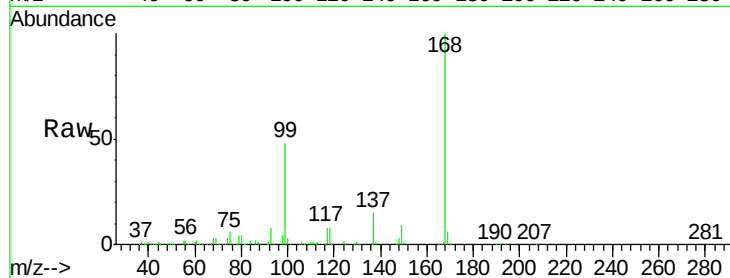
ClientSampleId :

Tot Ion:168 Resp: 1395406

Ion Ratio Lower Upper

168 100

99 47.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

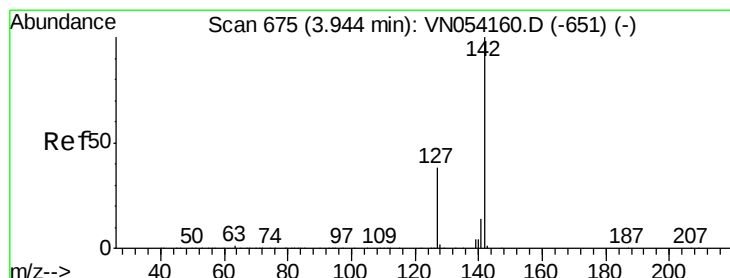
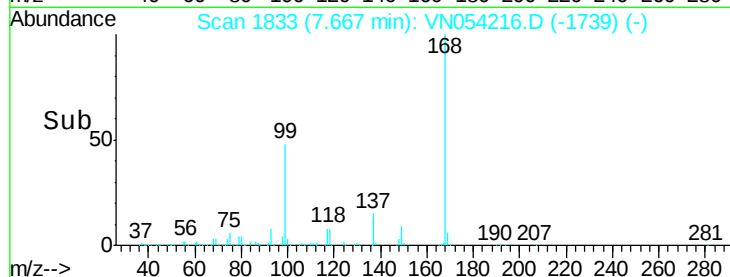
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.505 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.02 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

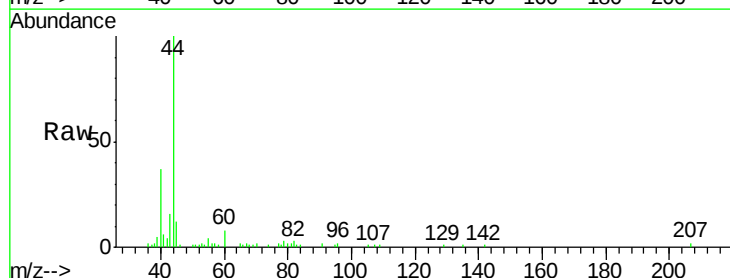
Tgt Ion:142 Resp: 165

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 37.6 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.96

250

200

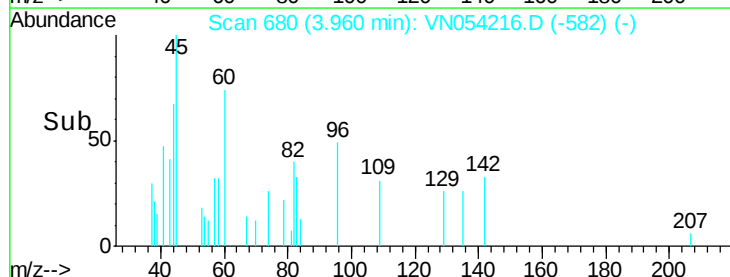
150

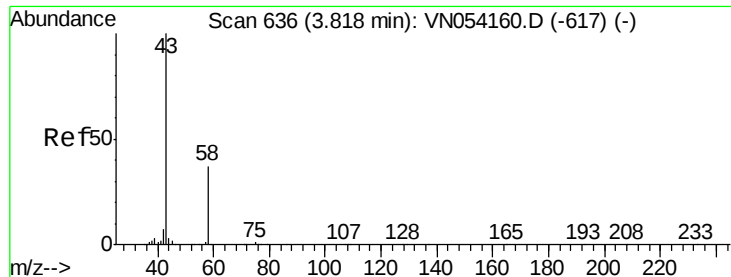
100

50

0

Time--> 3.94 3.95 3.96 3.97 3.98





#16

Acetone

Concen: 2.497 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Instrument :

MSVOA_N

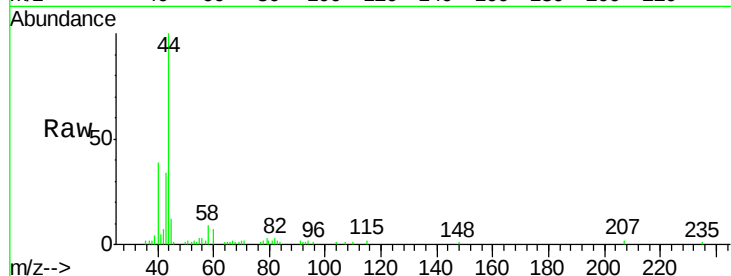
ClientSampleId :

Tot Ion: 43 Resp: 10594

Ion Ratio Lower Upper

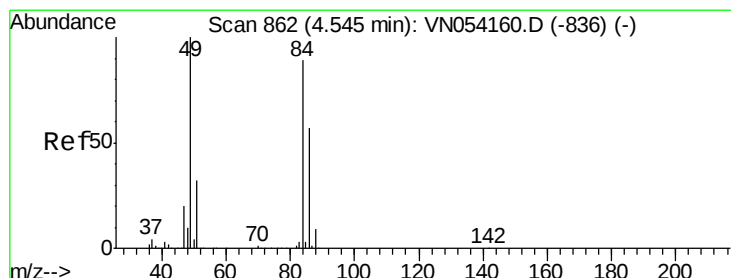
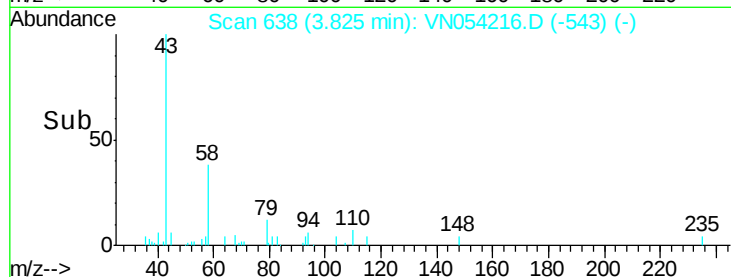
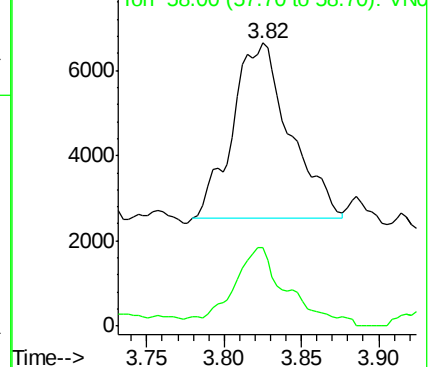
43 100

58 39.5 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#20

Methylene Chloride

Concen: 0.270 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Tgt Ion: 84 Resp: 3755

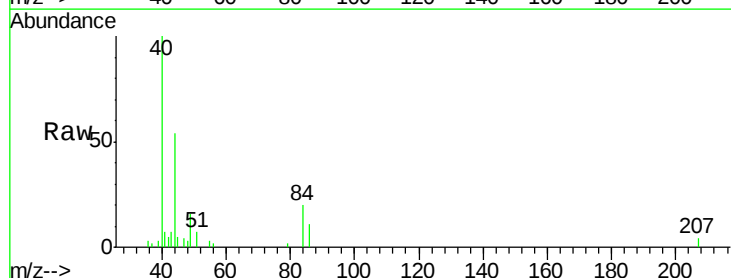
Ion Ratio Lower Upper

84 100

49 70.9 89.7 134.5#

51 34.9 28.2 42.4

86 55.2 50.8 76.2

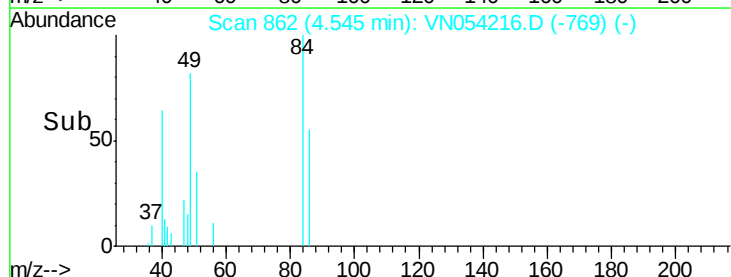
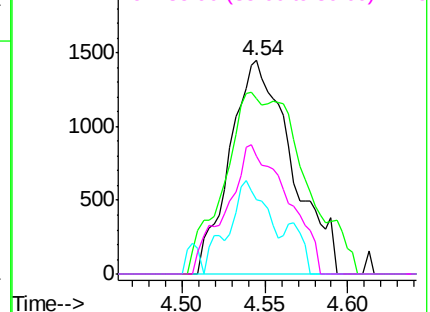


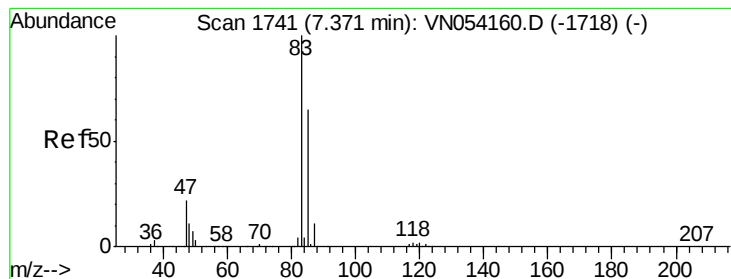
Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO





#30

Chloroform

Concen: 0.294 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

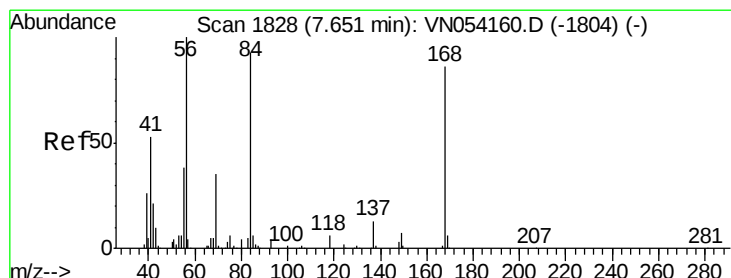
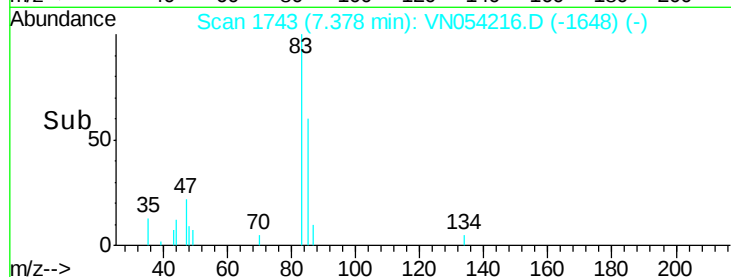
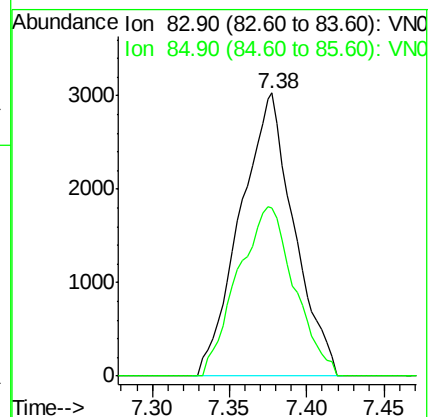
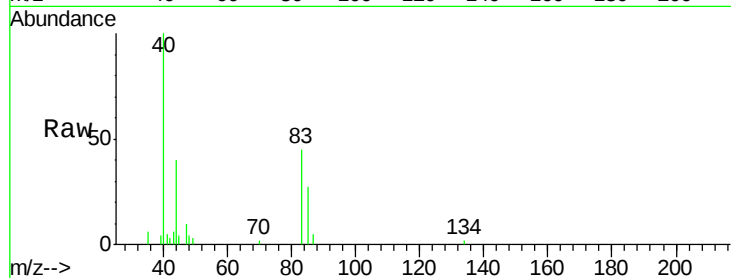
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 83 Resp: 7323

Ion Ratio Lower Upper

83 100

85 59.6 52.2 78.4



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

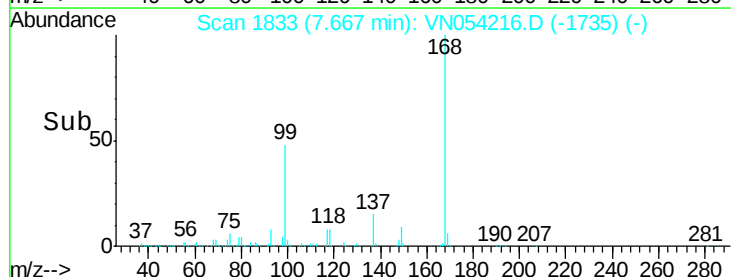
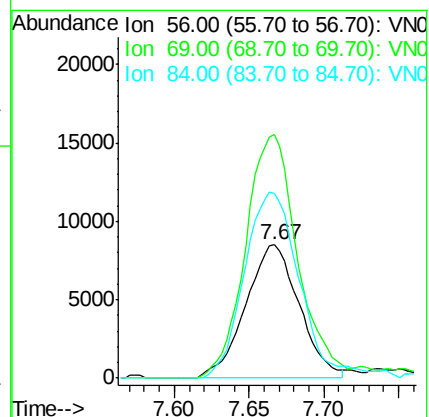
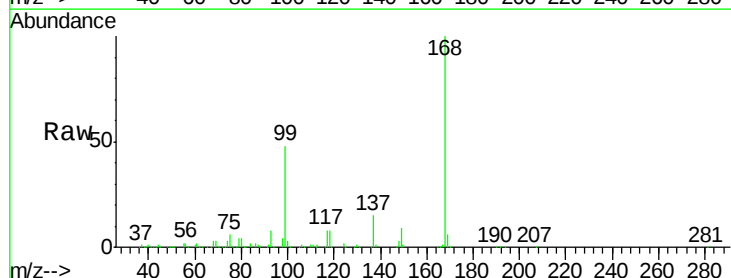
Tgt Ion: 56 Resp: 21187

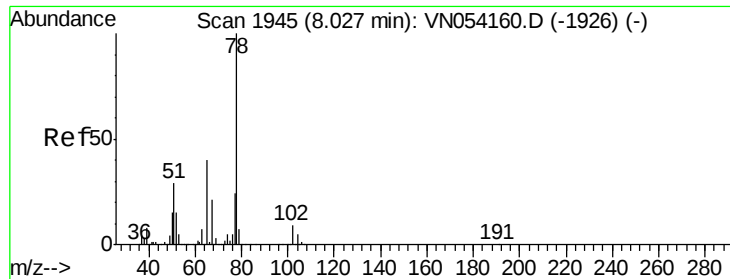
Ion Ratio Lower Upper

56 100

69 183.1 27.8 41.6#

84 138.8 74.6 111.8#

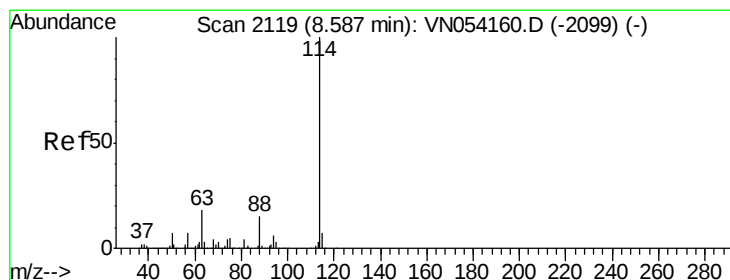
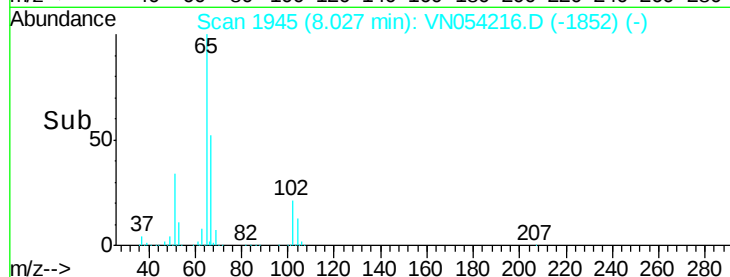
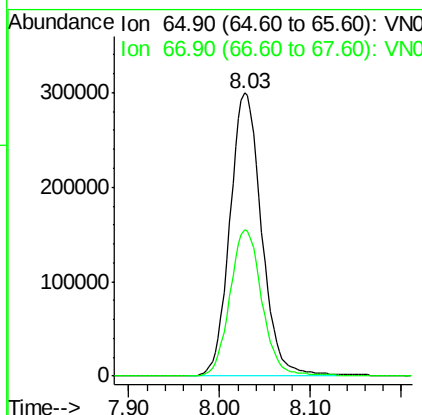
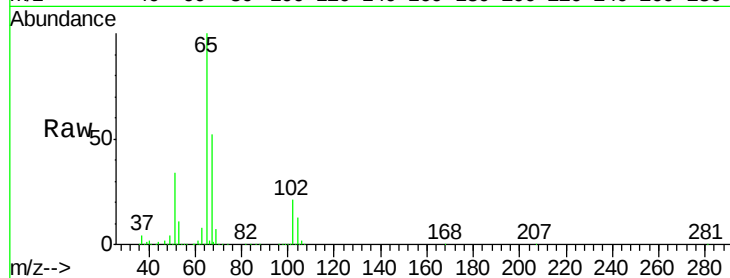




#33
 1,2-Dichloroethane-d4
 Concen: 48.926 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054216.D
 Acq: 13 Mar 2019 16:59

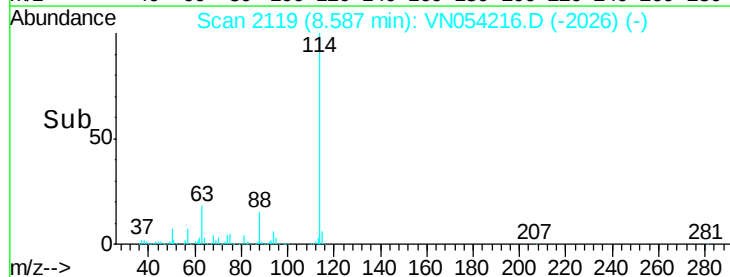
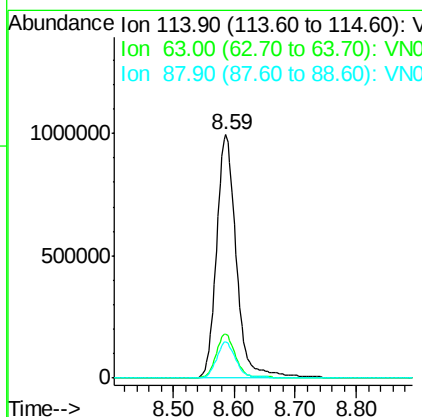
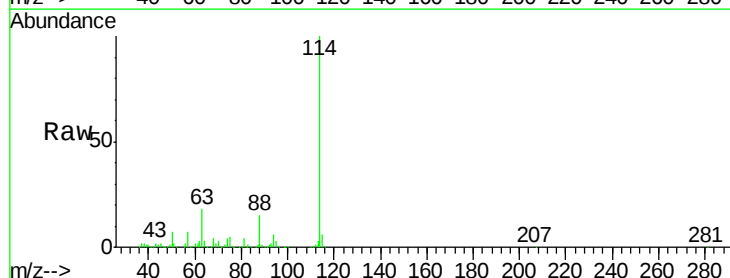
Instrument :
 MSVOA_N
 ClientSampleId :

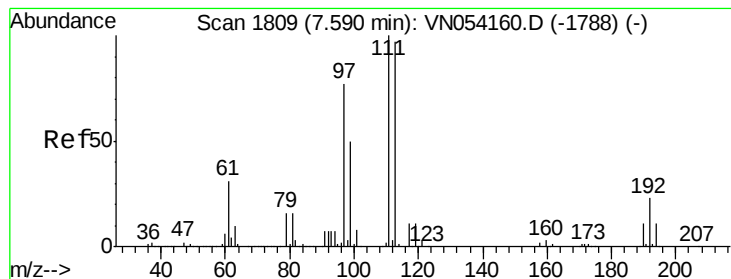
Tot Ion: 65 Resp: 725043
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054216.D
 Acq: 13 Mar 2019 16:59

Tgt Ion: 114 Resp: 2250670
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 35.2
 88 14.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.693 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Instrument :
MSVOA_N
ClientSampleId :

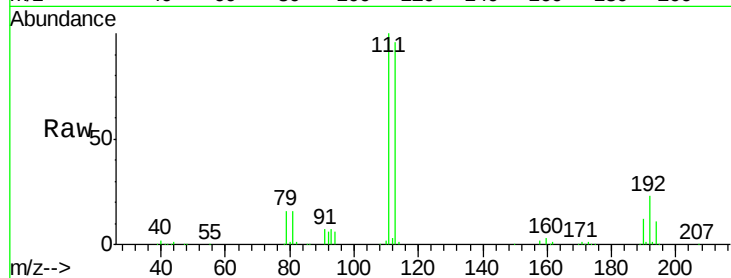
Tot Ion:113 Resp: 692310

Ion Ratio Lower Upper

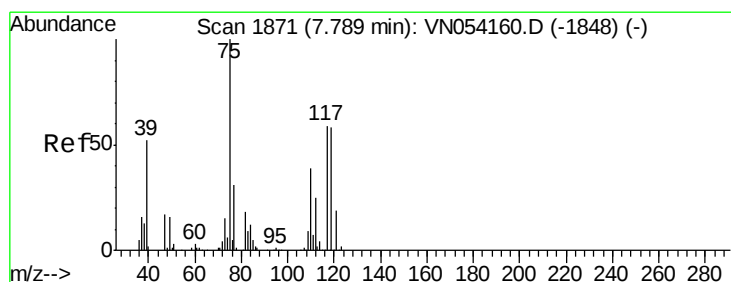
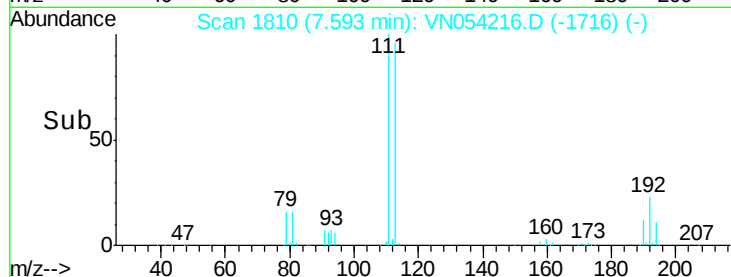
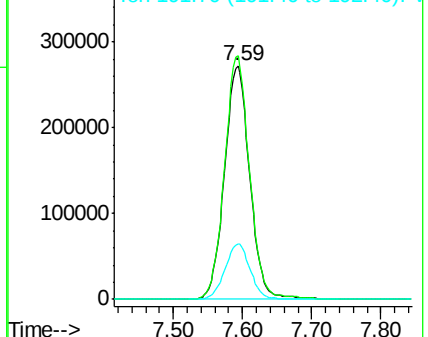
113 100

111 103.2 82.2 123.4

192 23.7 19.2 28.8



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: 3.887 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

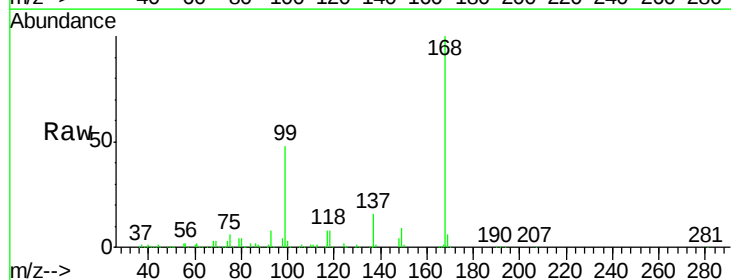
Tgt Ion: 75 Resp: 80562

Ion Ratio Lower Upper

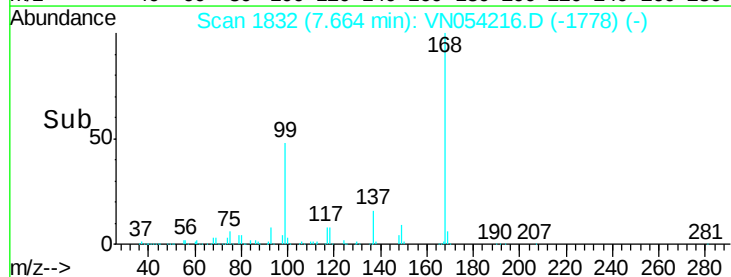
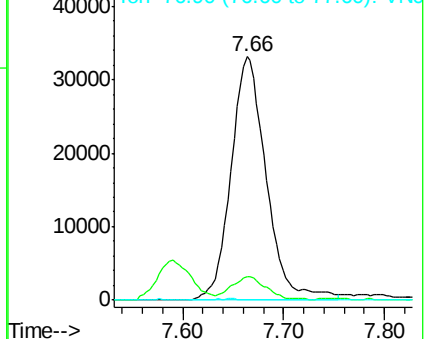
75 100

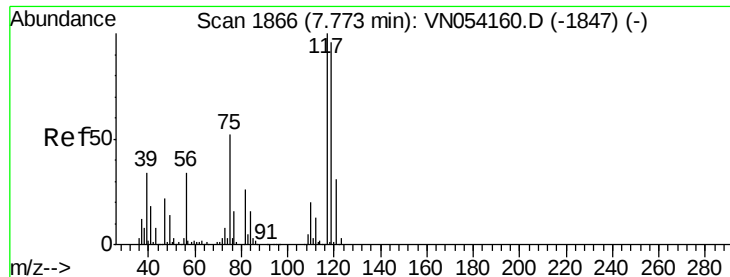
110 8.6 19.1 57.5#

77 0.1 25.0 37.4#



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: 5.127 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

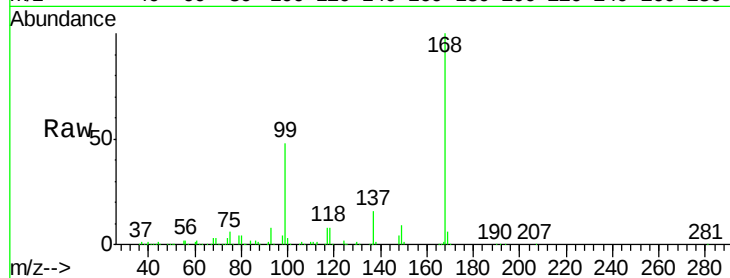
Tot Ion:117 Resp: 111437

Ion Ratio Lower Upper

117 100

119 5.3 76.3 114.5#

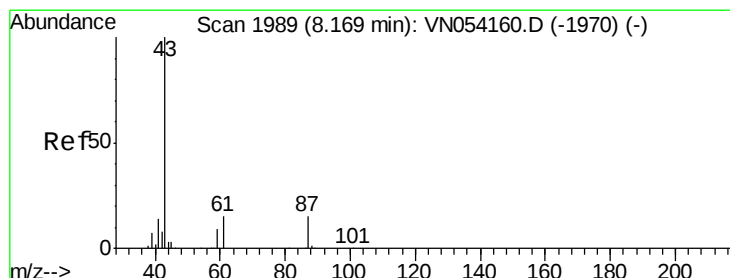
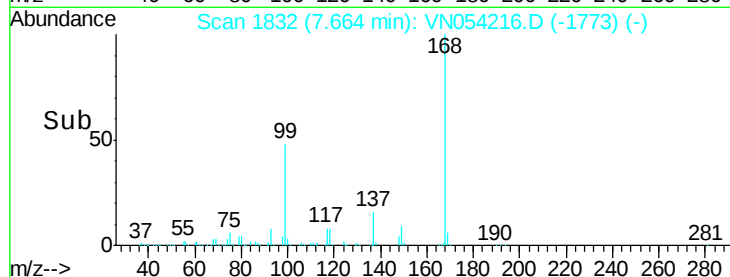
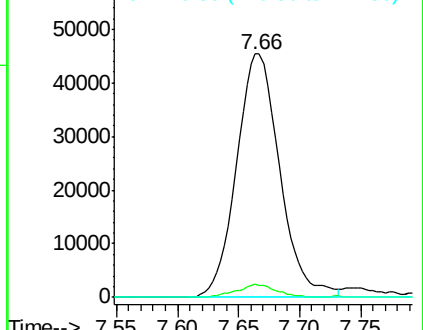
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.638 ug/l

RT: 8.33 min Scan# 2039

Delta R.T. 0.16 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

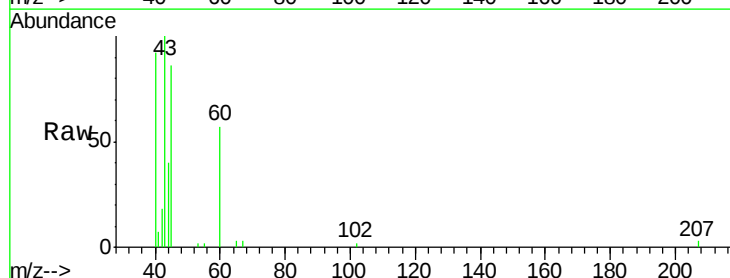
Tgt Ion: 43 Resp: 34251

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

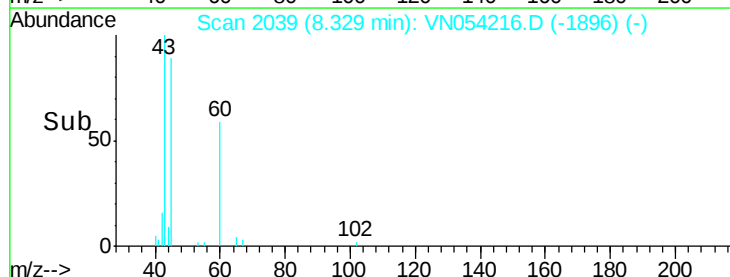
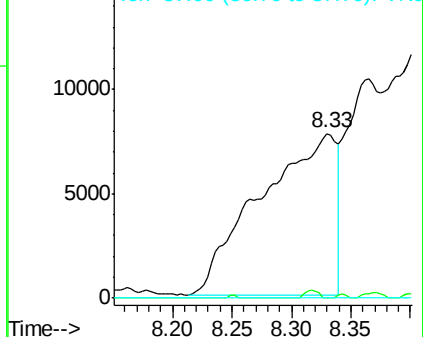
87 0.0 12.0 18.0#

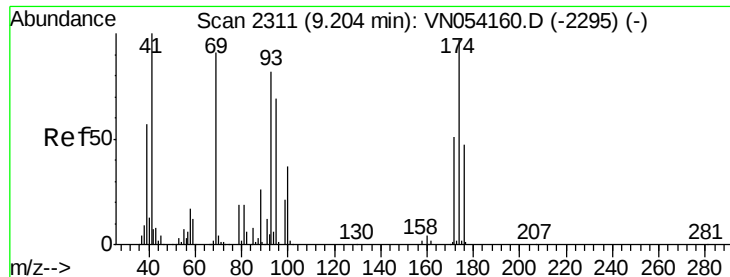


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

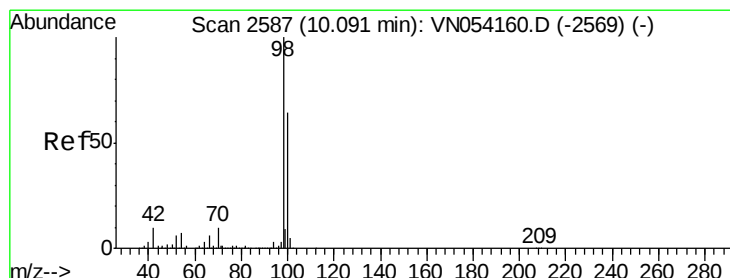
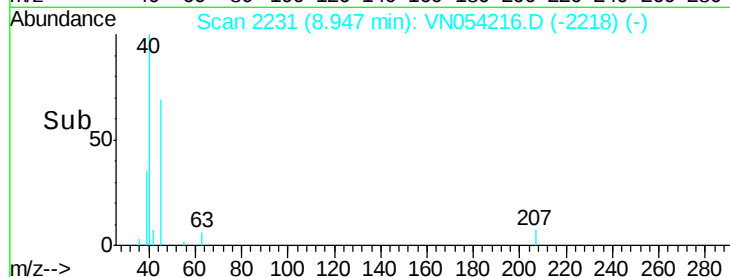
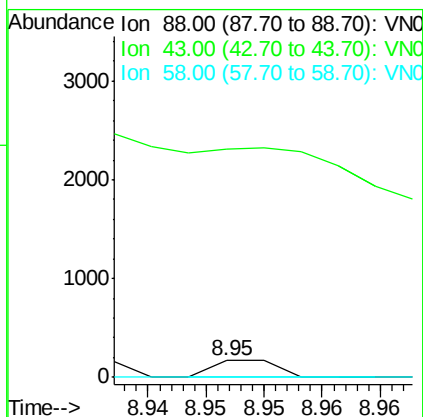
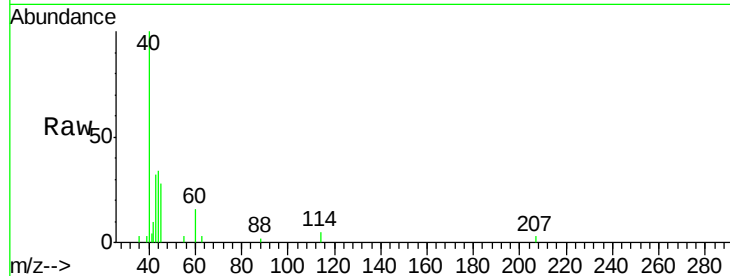




#49
 1,4-Dioxane
 Concen: 0.433 ug/l
 RT: 8.95 min Scan# 2231
 Delta R.T. -0.26 min
 Lab File: VN054216.D
 Acq: 13 Mar 2019 16:59

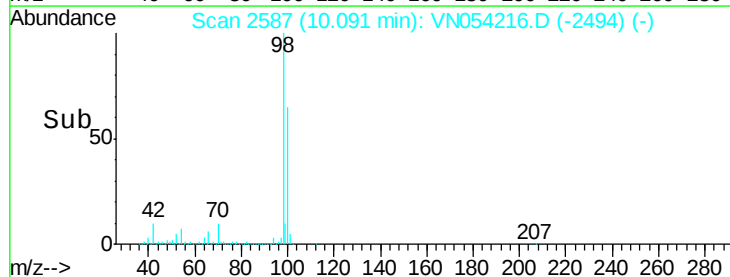
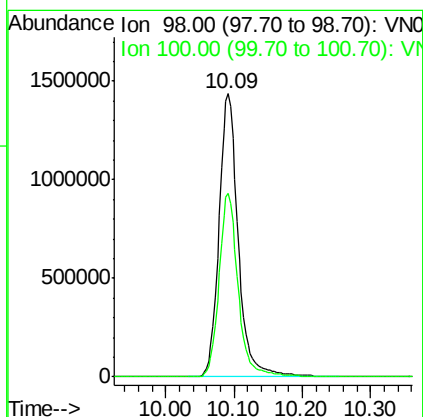
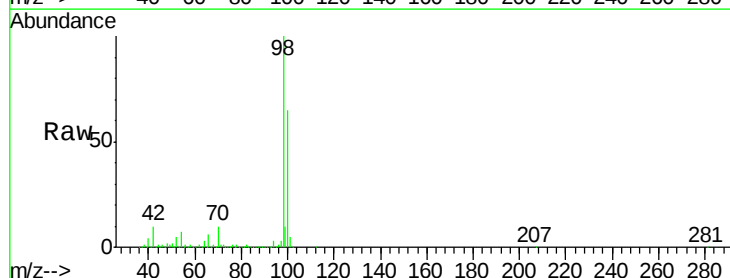
Instrument :
 MSVOA_N
 ClientSampleId :

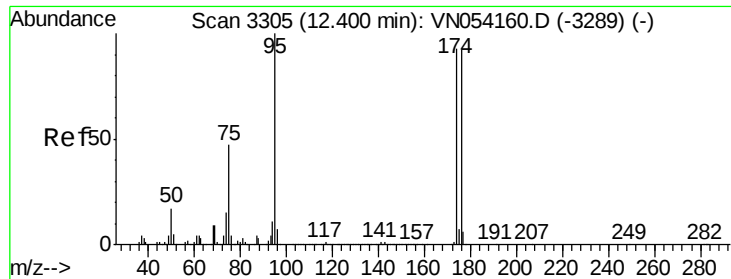
Tot Ion: 88 Resp: 65
 Ion Ratio Lower Upper
 88 100
 43 0.0 24.1 36.1#
 58 0.0 50.8 76.2#



#50
 Toluene-d8
 Concen: 52.379 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN054216.D
 Acq: 13 Mar 2019 16:59

Tgt Ion: 98 Resp: 2807997
 Ion Ratio Lower Upper
 98 100
 100 64.6 51.2 76.8

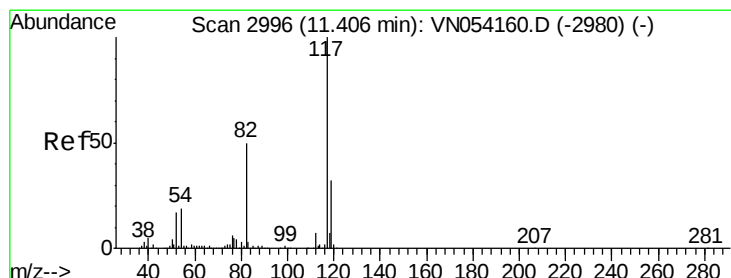
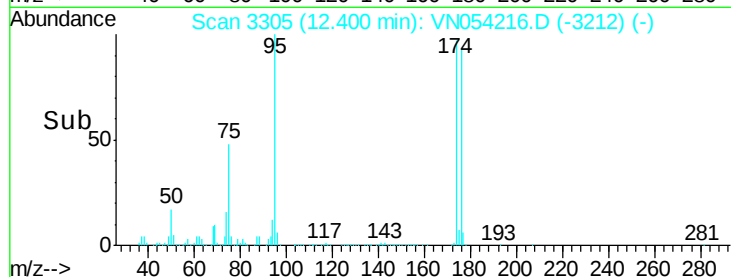
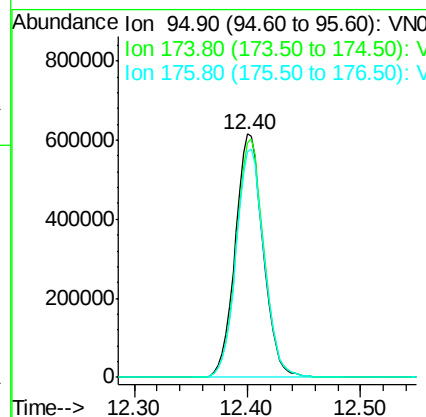
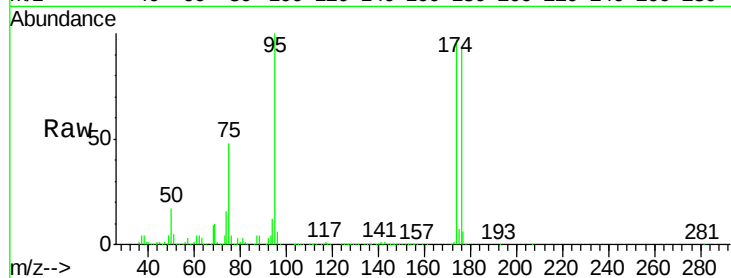




#62
4-Bromofluorobenzene
Concen: 56.220 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054216.D
Acq: 13 Mar 2019 16:59

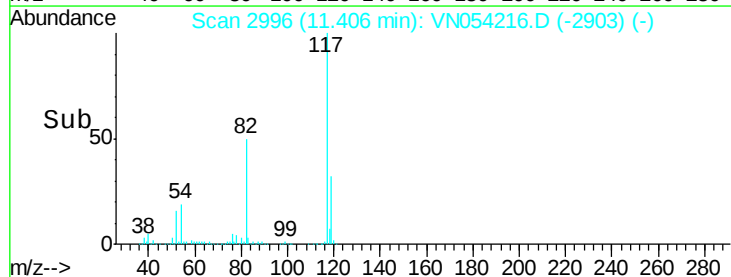
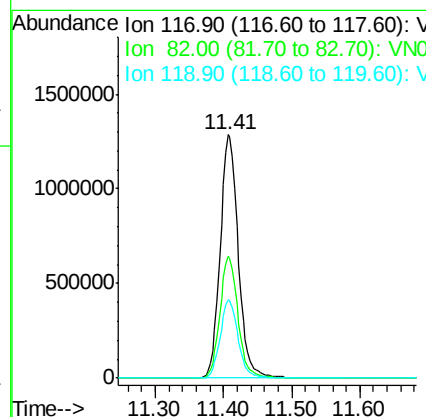
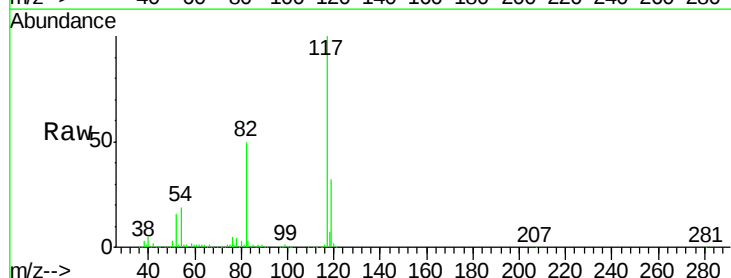
Instrument :
MSVOA_N
ClientSampleId :

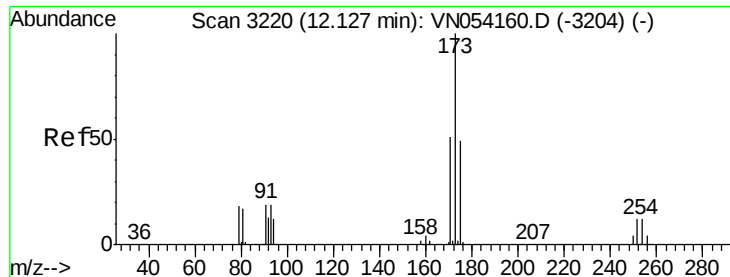
Tot Ion: 95 Resp: 1054566
Ion Ratio Lower Upper
95 100
174 97.4 0.0 191.0
176 94.3 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054216.D
Acq: 13 Mar 2019 16:59

Tgt Ion: 117 Resp: 2360895
Ion Ratio Lower Upper
117 100
82 50.0 40.0 60.0
119 32.2 25.8 38.6





#71

Bromoform

Concen: 2.777 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

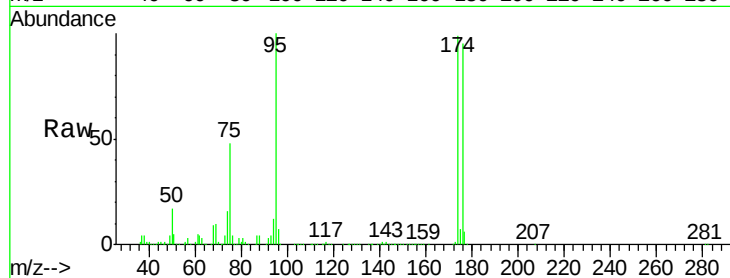
Tot Ion:173 Resp: 6427

Ion Ratio Lower Upper

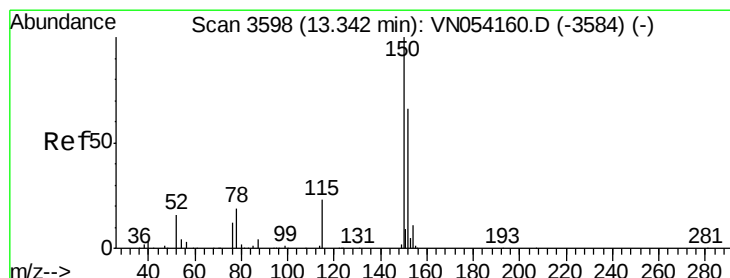
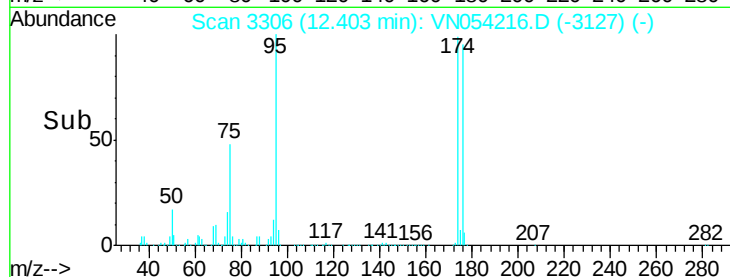
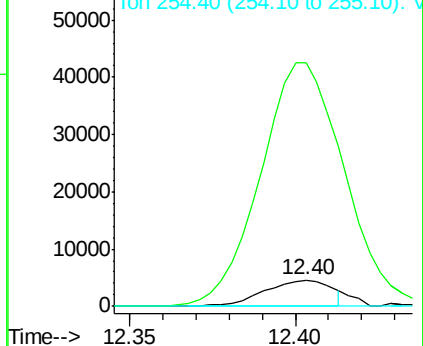
173 100

175 988.6 24.4 73.2#

254 0.0 0.1 0.1#



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: VN054216.D

Acq: 13 Mar 2019 16:59

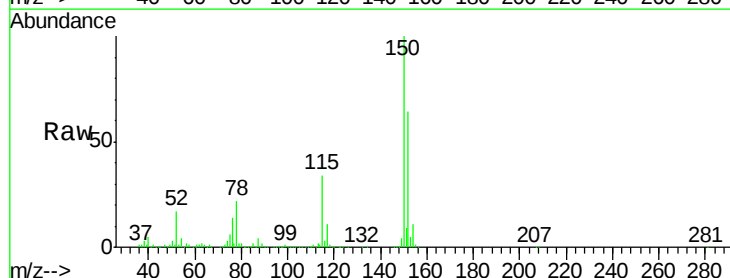
Tgt Ion:152 Resp: 964670

Ion Ratio Lower Upper

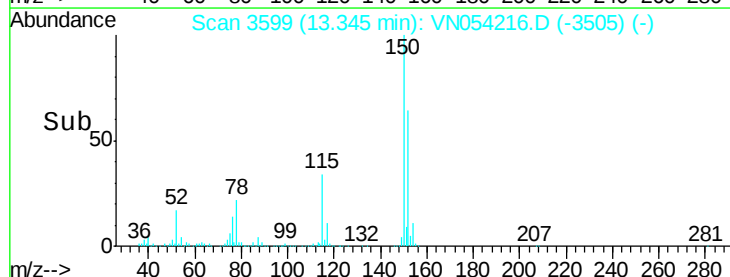
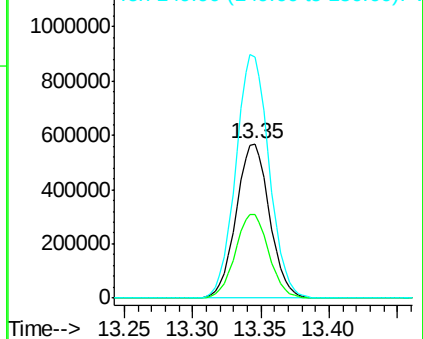
152 100

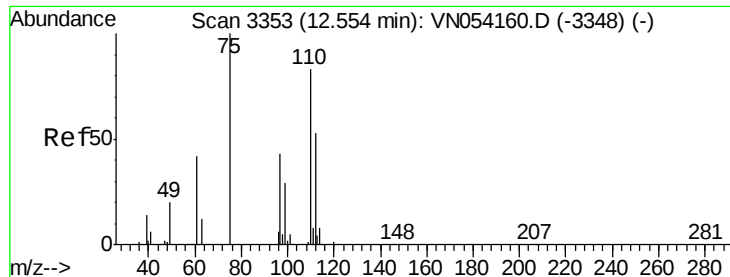
115 54.5 27.2 81.6

150 158.0 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.998 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Instrument :

MSVOA_N

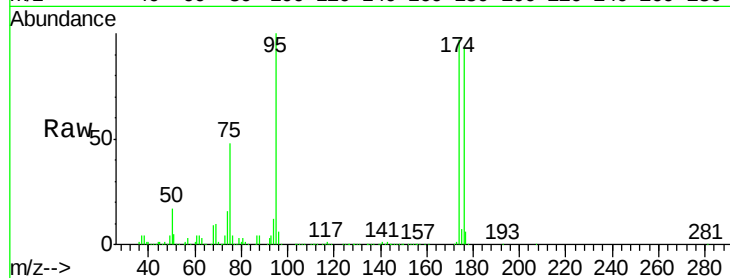
ClientSampleId :

Tot Ion: 75 Resp: 510668

Ion Ratio Lower Upper

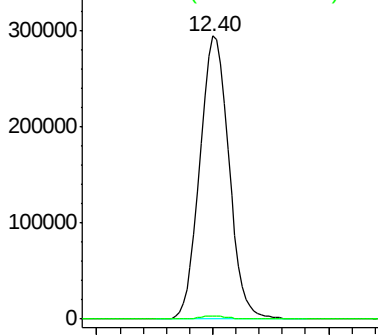
75 100

77 1.0 0.0 0.0#

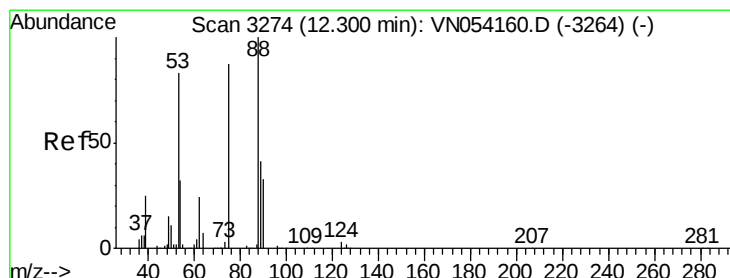
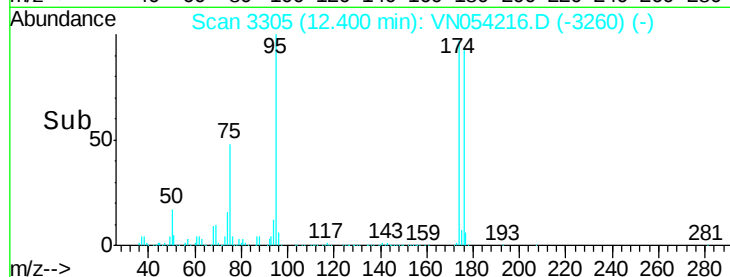


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 123.058 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

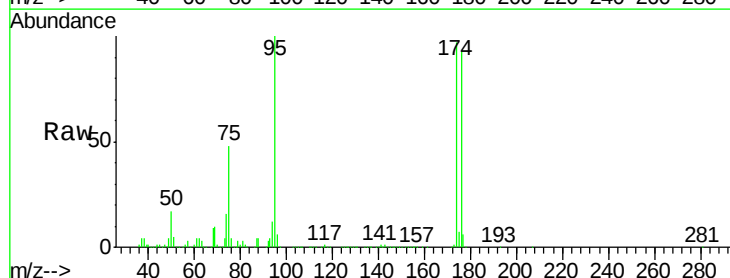
Tgt Ion: 75 Resp: 510668

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

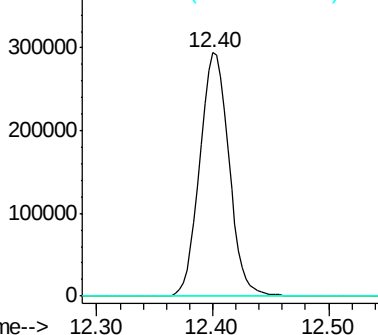
89 0.0 39.2 58.8#



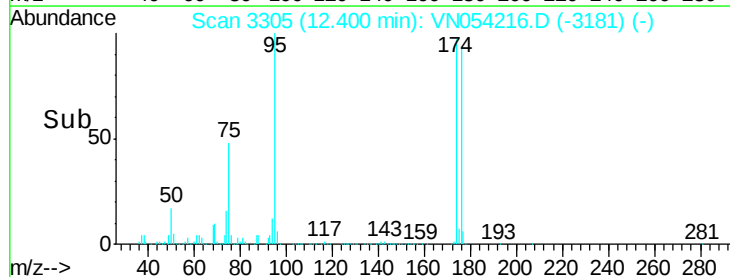
Abundance Ion 74.90 (74.60 to 75.60): VNO

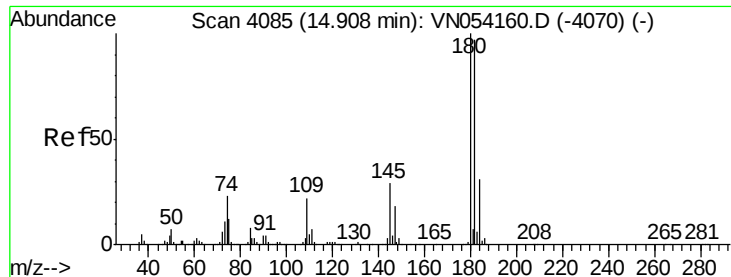
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time--> 12.30 12.40 12.50





#93

1,2,4-Trichlorobenzene

Concen: 2.552 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN054216.D

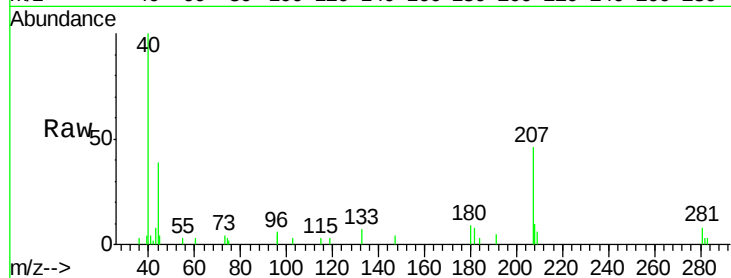
Acq: 13 Mar 2019 16:59

Instrument :

MSVOA_N

ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	112.1	48.0	144.2
145	0.0	14.2	42.8#

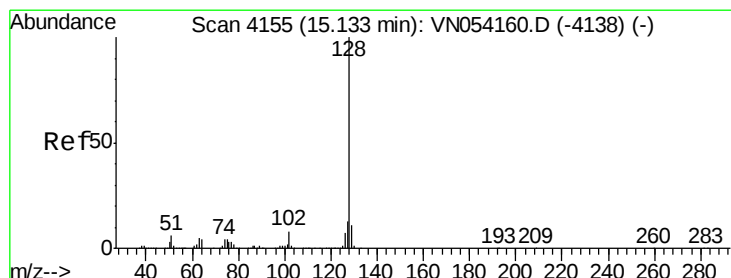
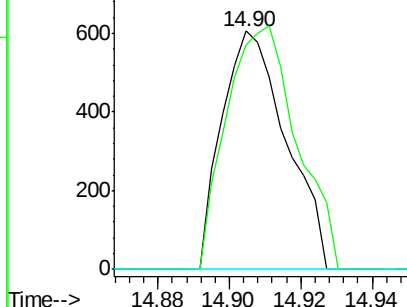
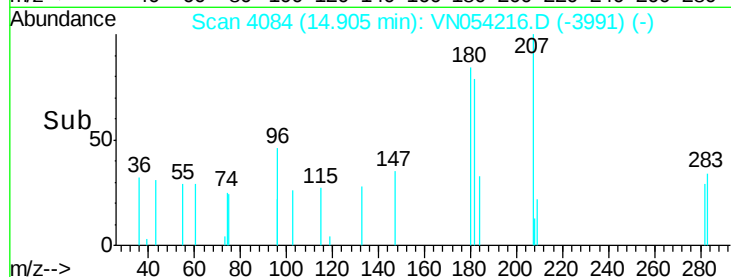


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.90



#95

Naphthalene

Concen: 3.504 ug/l

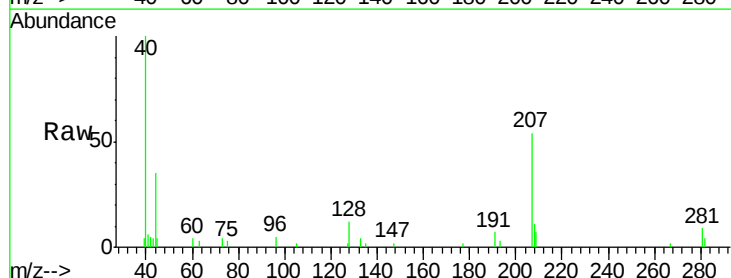
RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054216.D

Acq: 13 Mar 2019 16:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	3.8	10.1	15.1#
129	12.9	8.7	13.1



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

15.14

