

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\
 Data File : VN053515.D
 Acq On : 22 Jan 2019 13:23
 Operator : JC/SP
 Sample : K1212-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 FML-124

Quant Time: Jan 23 02:53:40 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	878783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1359347	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1257938	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	525321	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	433724	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
35) Dibromofluoromethane	7.59	113	407463	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
50) Toluene-d8	10.09	98	1687472	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.40	95	561103	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	

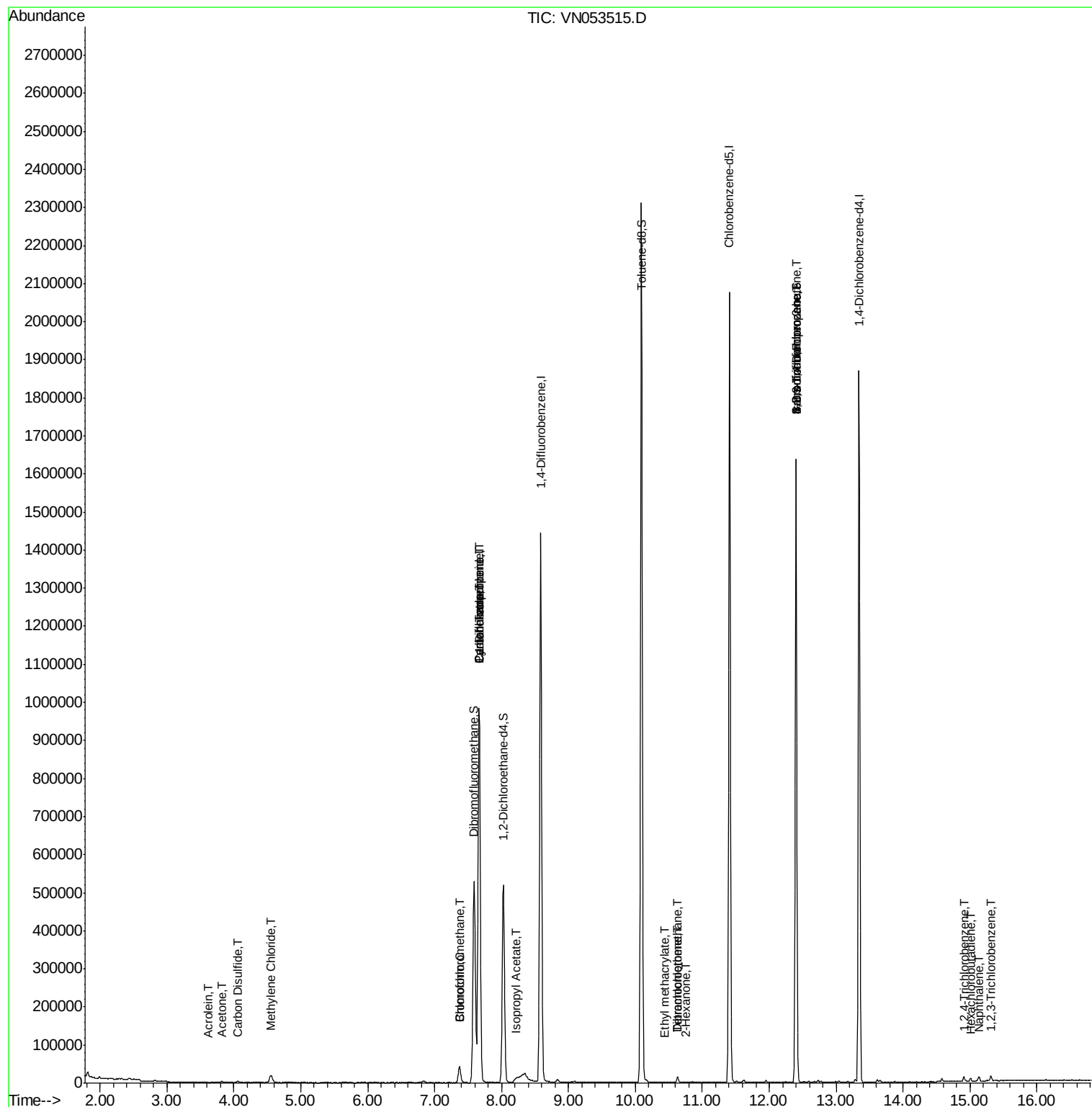
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	162	22.915	ug/l #	14
16) Acetone	3.82	43	6474	3.177	ug/l	99
17) Carbon Disulfide	4.06	76	5127	0.217	ug/l	98
20) Methylene Chloride	4.55	84	14705	1.581	ug/l	95
28) Bromochloromethane	7.37	49	3222	0.466	ug/l #	10
30) Chloroform	7.37	83	46646	3.053	ug/l	99
31) Cyclohexane	7.67	56	15203	0.776	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	55509	4.484	ug/l #	49
38) Carbon Tetrachloride	7.66	117	75843	6.471	ug/l #	16
43) Isopropyl Acetate	8.22	43	9245	0.722	ug/l #	51
56) Ethyl methacrylate	10.43	69	60	2.063	ug/l #	1
59) 2-Hexanone	10.76	43	1253	0.255	ug/l #	55
60) Dibromochloromethane	10.63	129	3070	0.336	ug/l #	11
64) Tetrachloroethene	10.63	164	3637	0.307	ug/l	85
71) Bromoform	12.40	173	3534	0.554	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	261206	37.732	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	261206	93.185	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	4814	3.395	ug/l	94
94) Hexachlorobutadiene	15.01	225	1874	0.366	ug/l	90
95) Naphthalene	15.13	128	10645	4.711	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	4855	4.749	ug/l	96

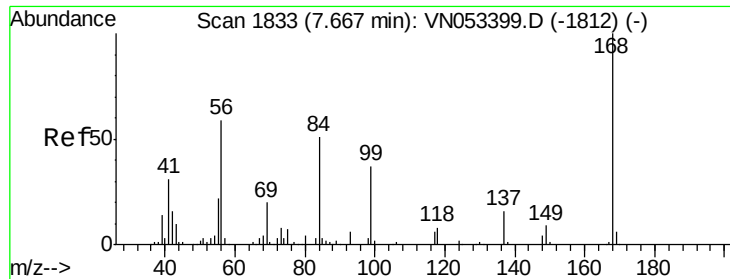
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN012219\
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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: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

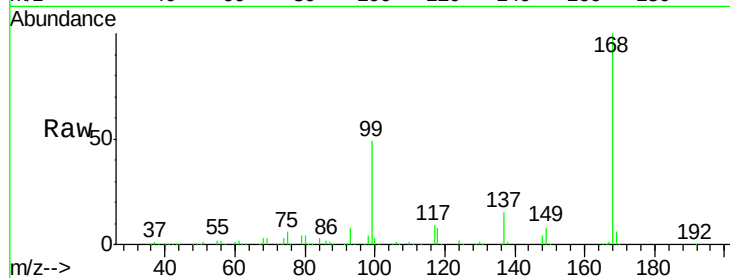
FML-124

Tot Ion:168 Resp: 878783

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

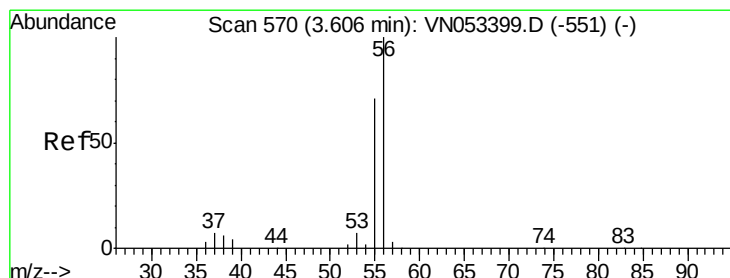
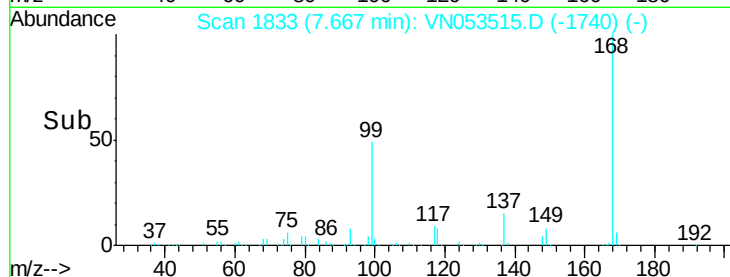
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 22.915 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053515.D

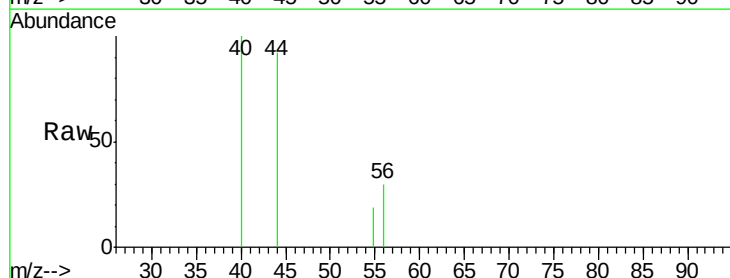
Acq: 22 Jan 2019 13:23

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

250

200

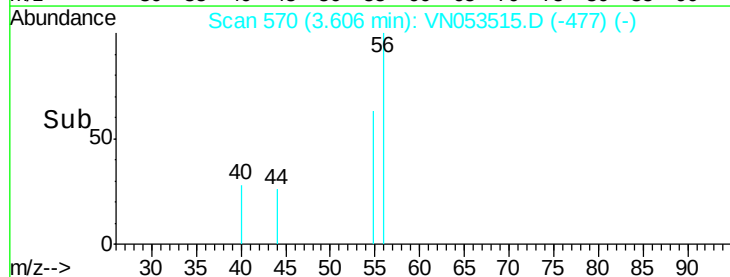
150

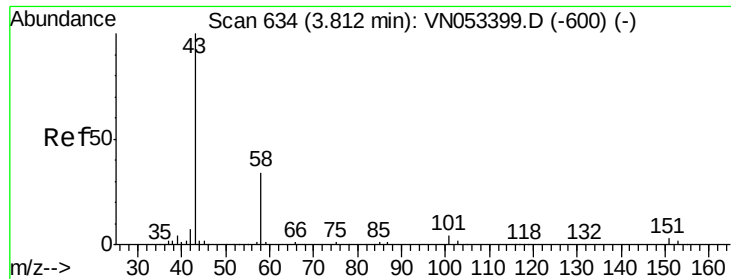
100

50

0

Time-->





#16

Acetone

Concen: 3.177 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampled :

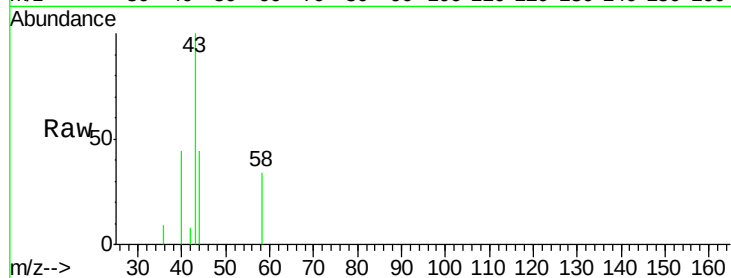
FML-124

Tot Ion: 43 Resp: 6474

Ion Ratio Lower Upper

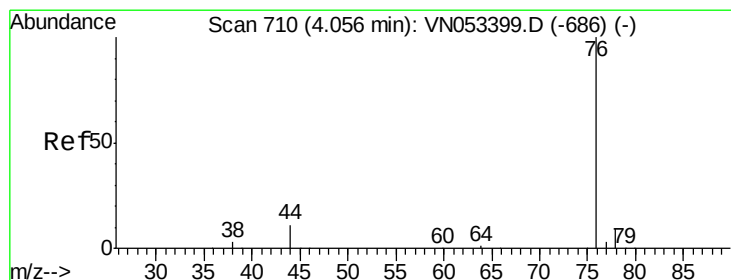
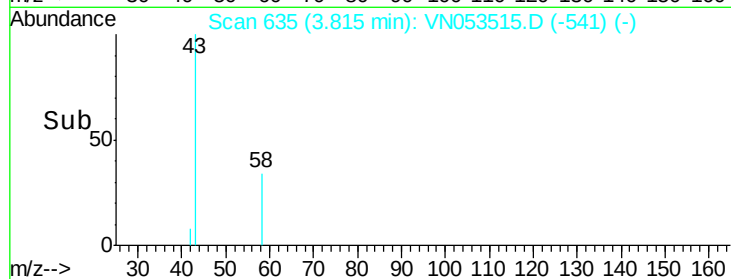
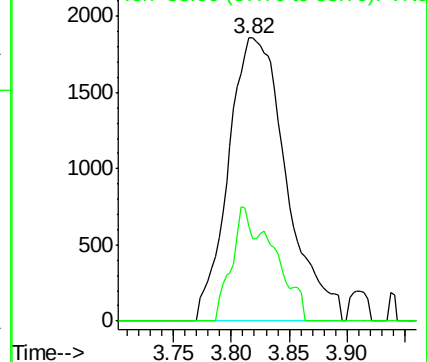
43 100

58 33.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.217 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053515.D

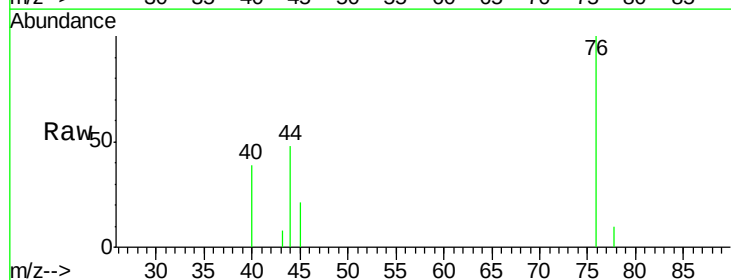
Acq: 22 Jan 2019 13:23

Tgt Ion: 76 Resp: 5127

Ion Ratio Lower Upper

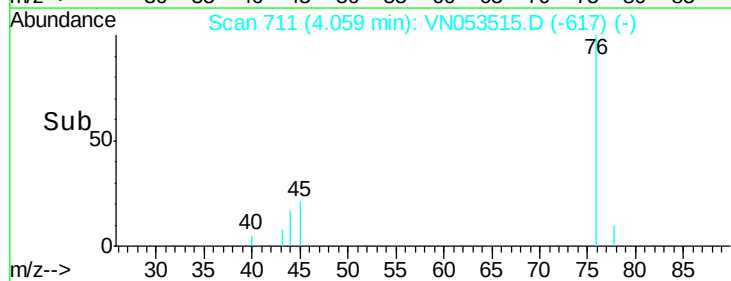
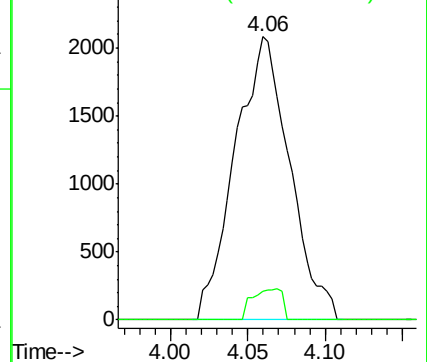
76 100

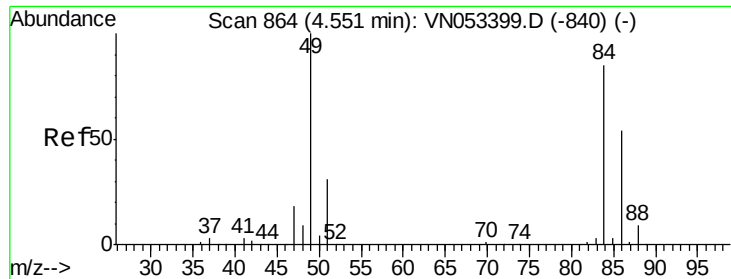
78 10.0 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

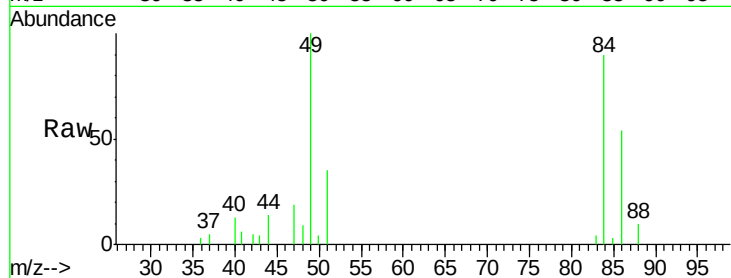




#20
Methylene Chloride
Concen: 1.581 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053515.D
Acq: 22 Jan 2019 13:23

Instrument :
MSVOA_N
ClientSampled :
FML-124

Tot Ion:	84	Resp:	14705
Ion	Ratio	Lower	Upper
84	100		
49	111.4	94.3	141.5
51	38.9	29.4	44.2
86	60.6	51.4	77.0

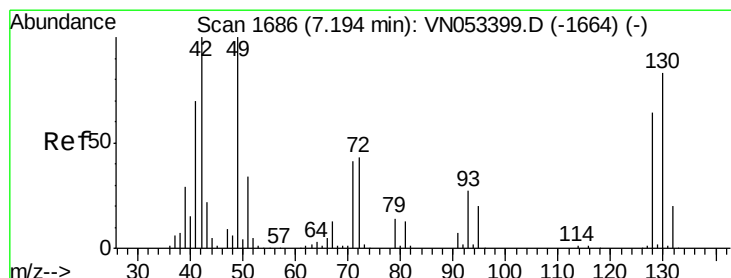
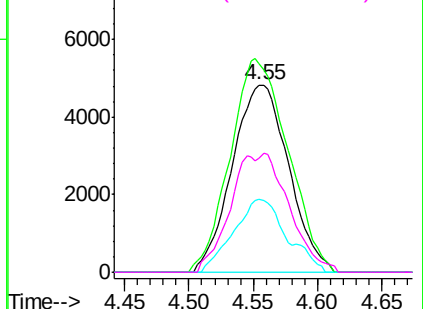
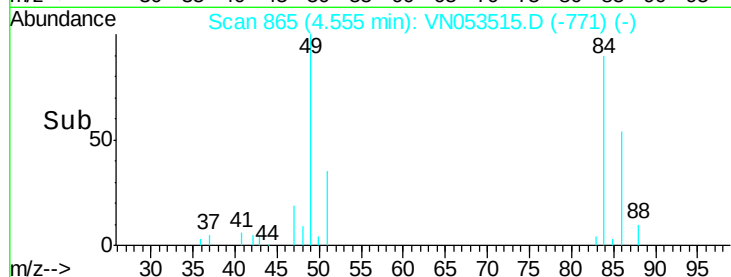


Abundance Ion 83.90 (83.60 to 84.60): VN053515.D (-771) (-)

Ion 48.90 (48.60 to 49.60): VN053515.D (-771) (-)

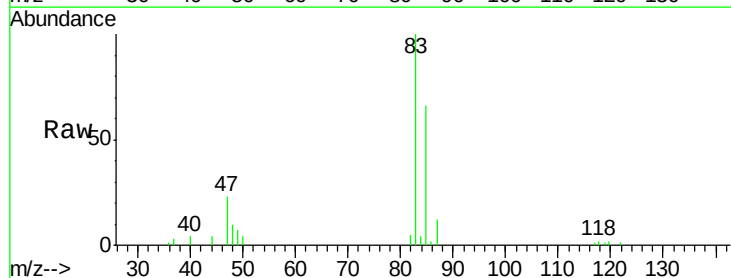
Ion 50.90 (50.60 to 51.60): VN053515.D (-771) (-)

Ion 85.90 (85.60 to 86.60): VN053515.D (-771) (-)



#28
Bromochloromethane
Concen: 0.466 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.18 min
Lab File: VN053515.D
Acq: 22 Jan 2019 13:23

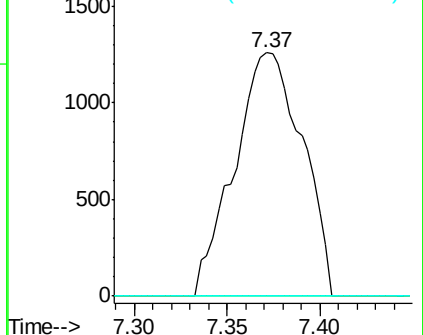
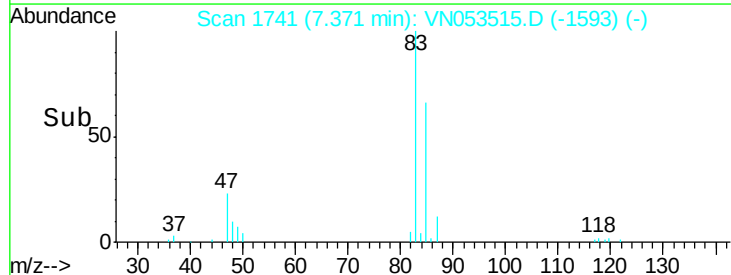
Tgt Ion:	49	Resp:	3222
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	0.0	66.3	99.5#

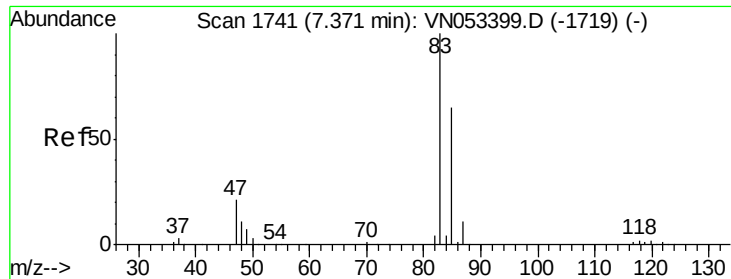


Abundance Ion 48.90 (48.60 to 49.60): VN053515.D (-1593) (-)

Ion 128.80 (128.50 to 129.50): VN053515.D (-1593) (-)

Ion 129.80 (129.50 to 130.50): VN053515.D (-1593) (-)

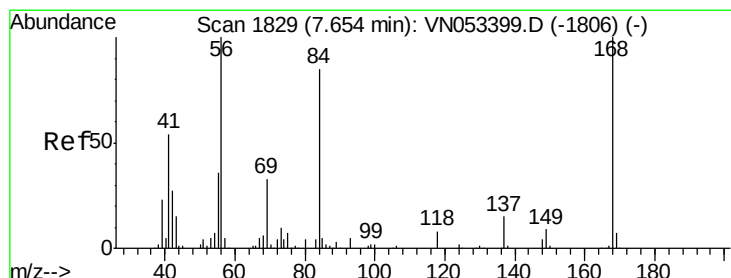
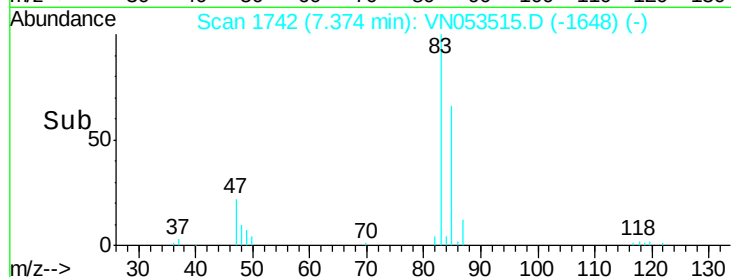
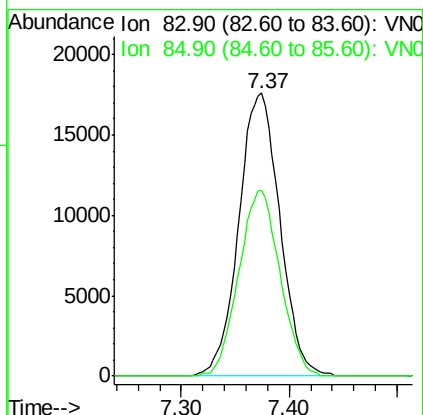
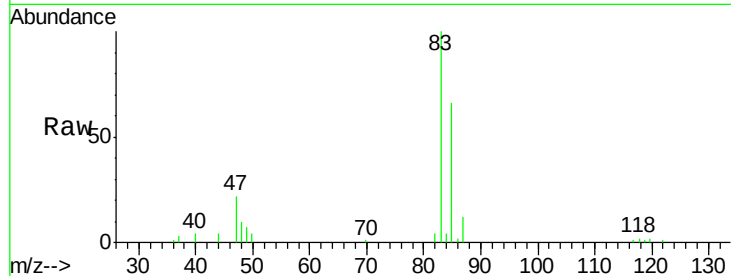




#30
Chloroform
Concen: 3.053 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053515.D
Acq: 22 Jan 2019 13:23

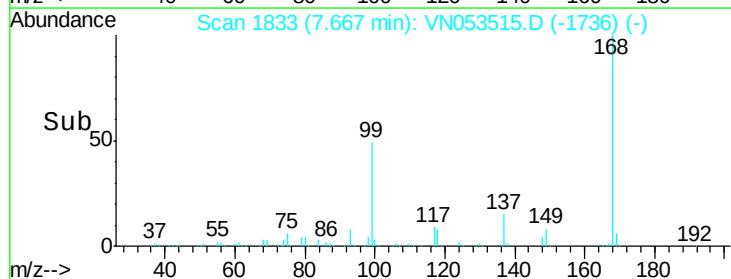
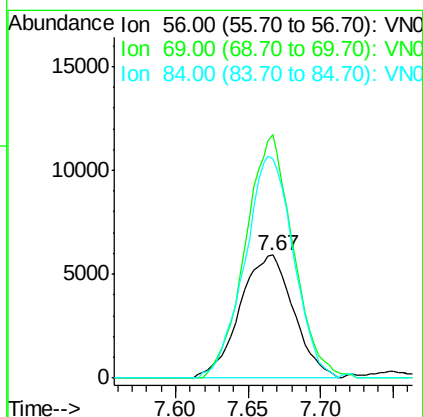
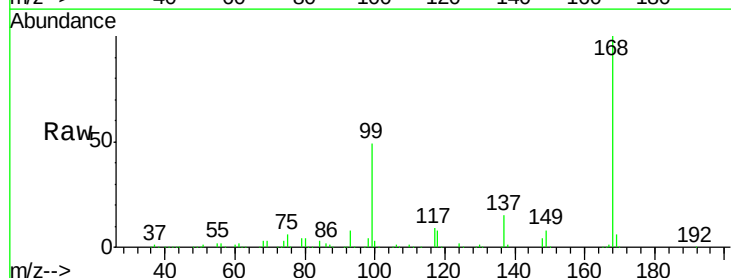
Instrument :
MSVOA_N
ClientSampleId :
FML-124

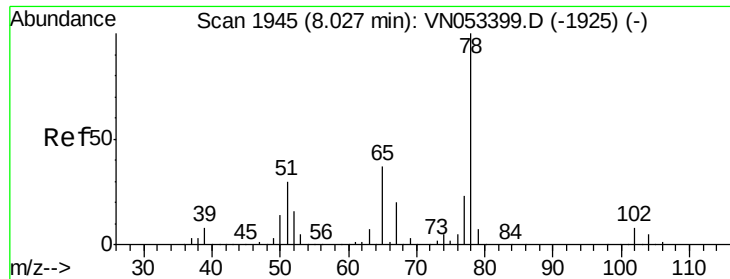
Tot Ion: 83 Resp: 46646
Ion Ratio Lower Upper
83 100
85 65.8 52.2 78.2



#31
Cyclohexane
Concen: 0.776 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053515.D
Acq: 22 Jan 2019 13:23

Tgt Ion: 56 Resp: 15203
Ion Ratio Lower Upper
56 100
69 198.1 26.4 39.6#
84 178.9 67.9 101.9#

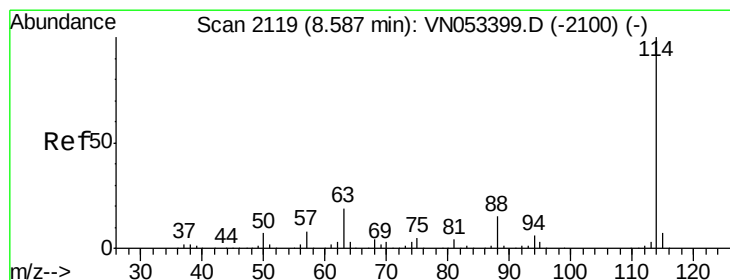
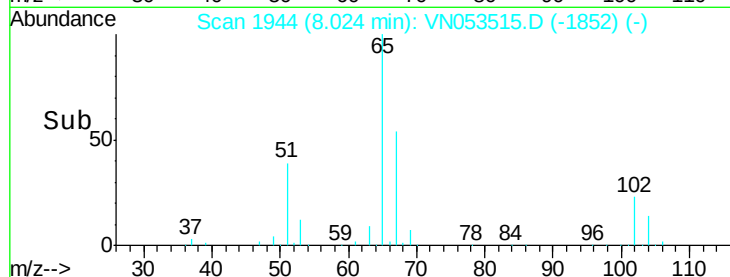
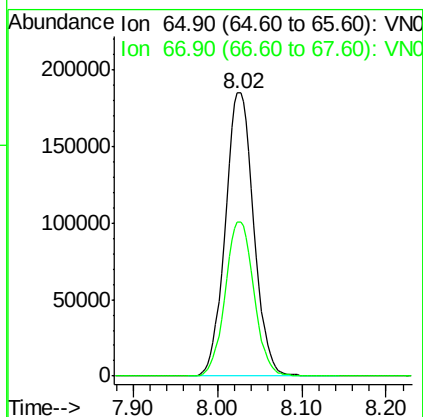
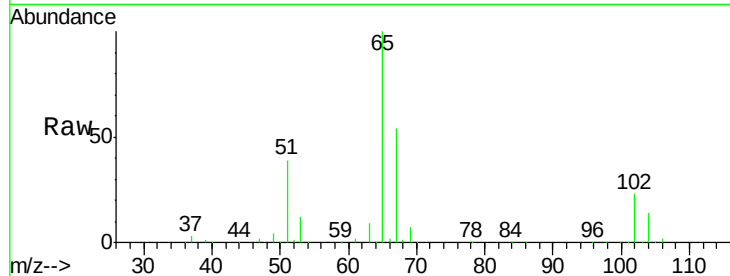




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053515.D
 Acq: 22 Jan 2019 13:23

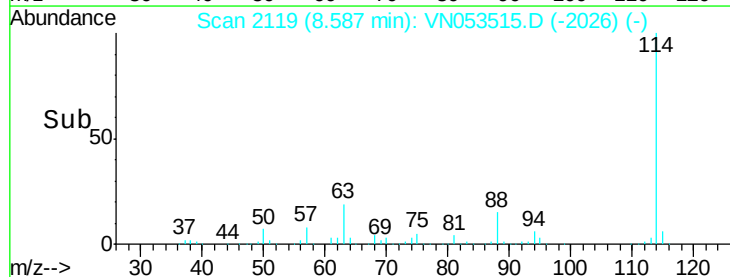
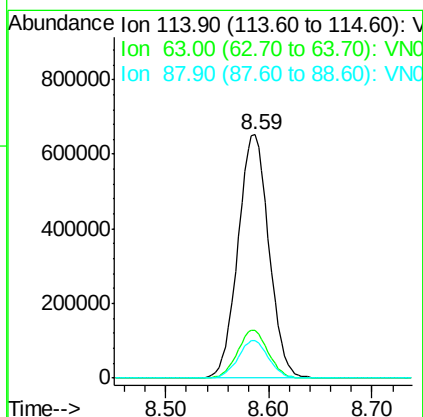
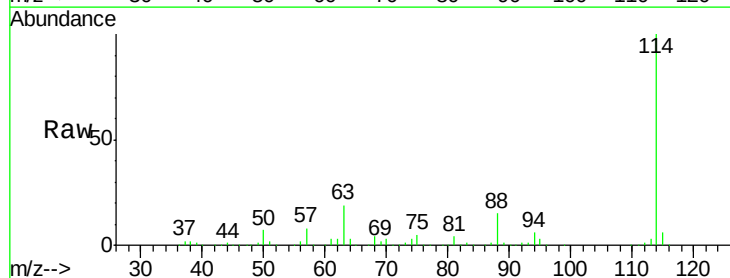
Instrument :
 MSVOA_N
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 FML-124

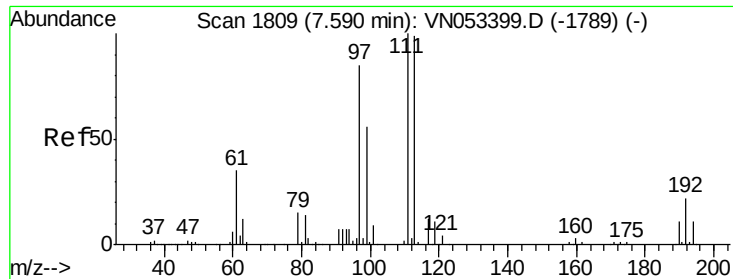
Tot Ion: 65 Resp: 433724
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053515.D
 Acq: 22 Jan 2019 13:23

Tgt Ion: 114 Resp: 1359347
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 15.4 0.0 30.4

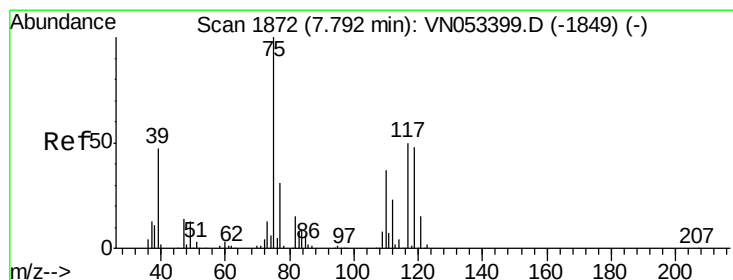
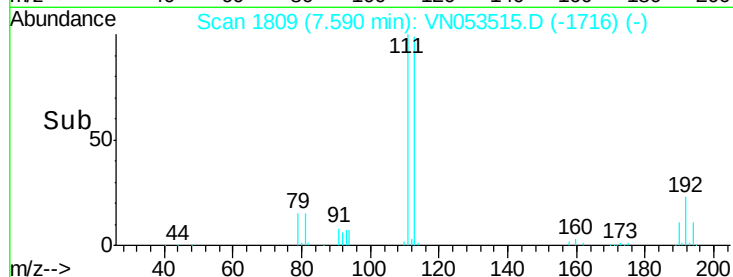
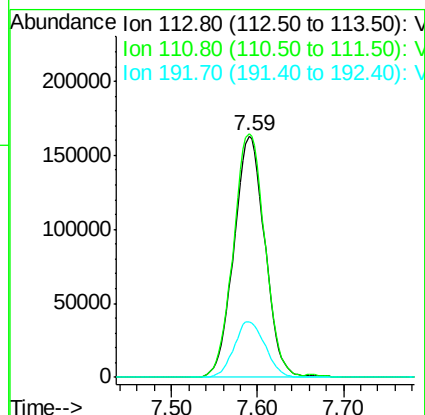
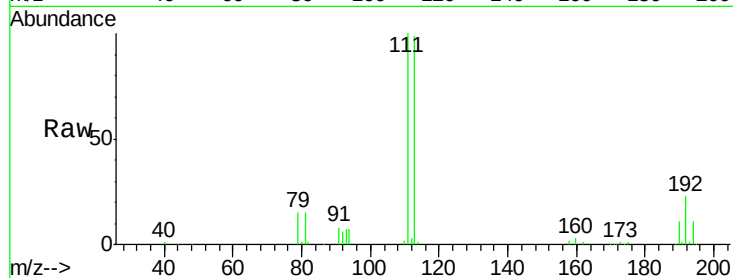




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053515.D
 Acq: 22 Jan 2019 13:23

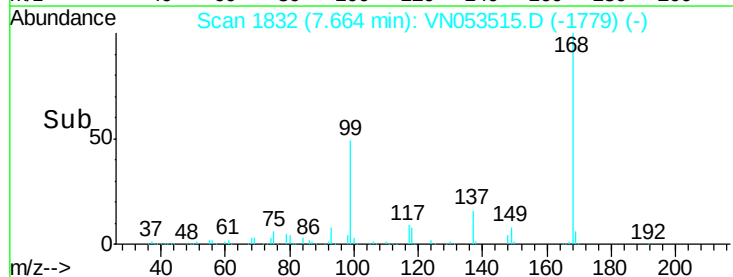
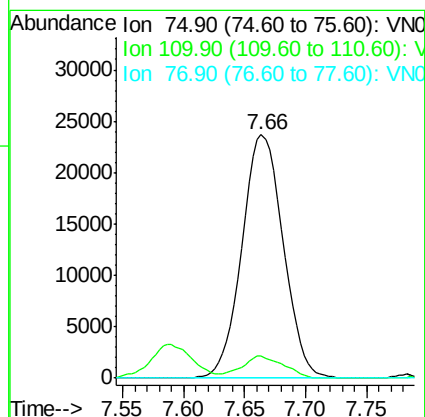
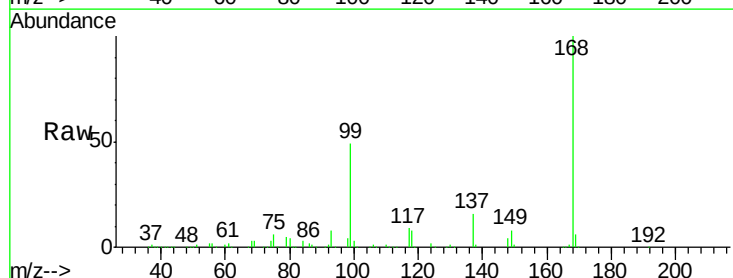
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 FML-124

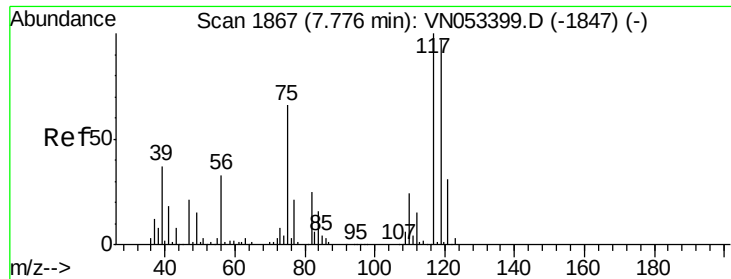
Tot Ion:113 Resp: 407463
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.1 121.7
 192 23.2 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 4.484 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053515.D
 Acq: 22 Jan 2019 13:23

Tgt Ion: 75 Resp: 55509
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.471 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampled :

FML-124

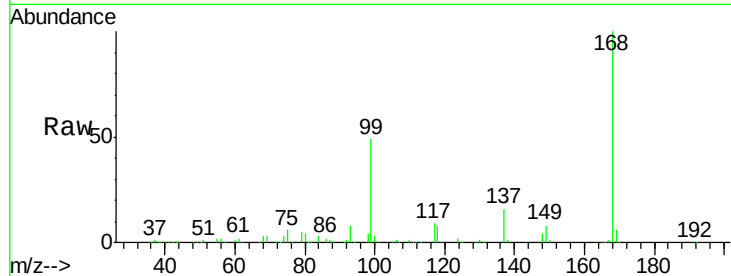
Tot Ion:117 Resp: 75843

Ion Ratio Lower Upper

117 100

119 5.6 77.2 115.8#

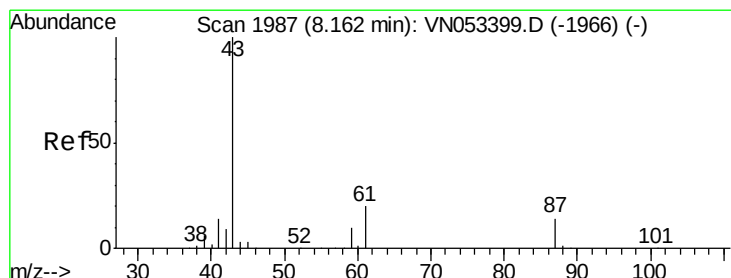
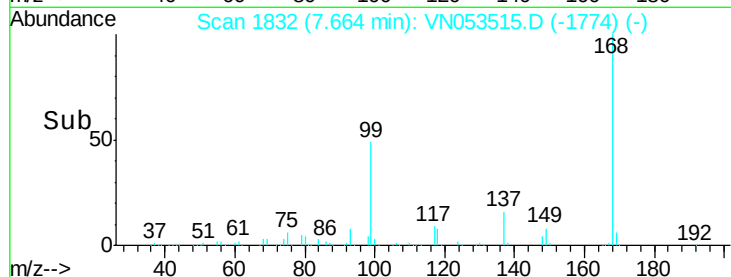
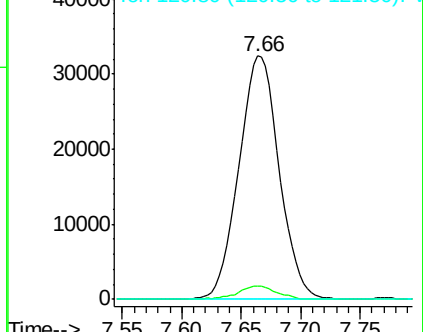
121 0.0 24.6 37.0#



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



#43

Isopropyl Acetate

Concen: 0.722 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.05 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

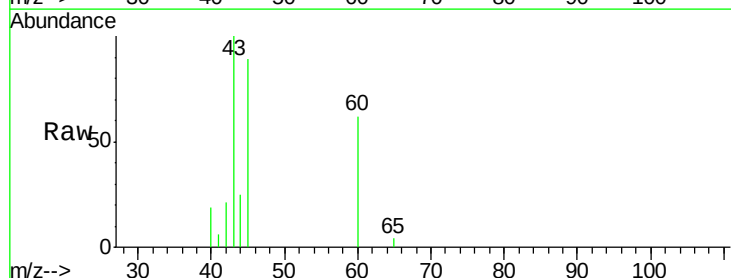
Tgt Ion: 43 Resp: 9245

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

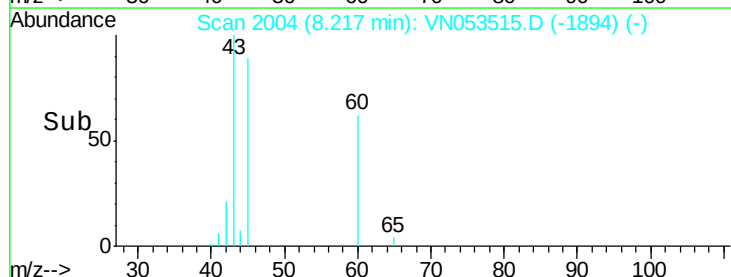
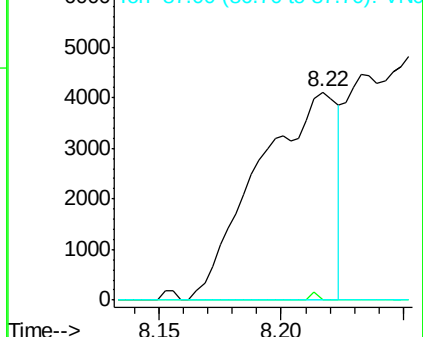
87 0.0 11.0 16.6#

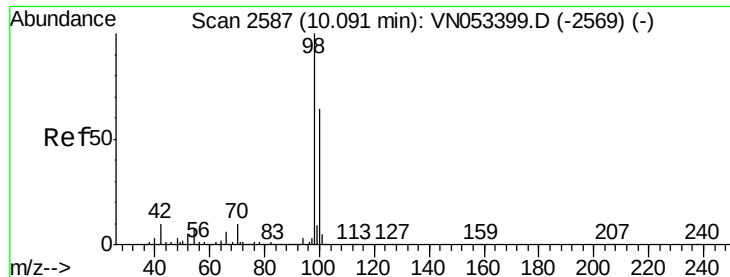


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampled :

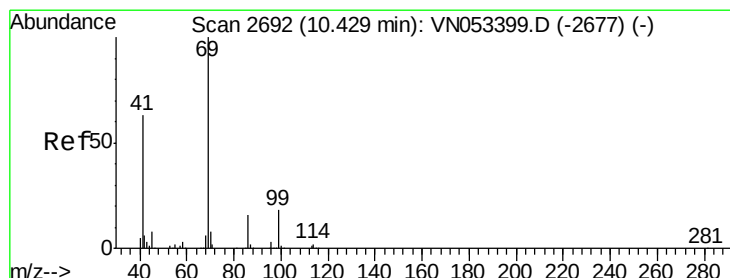
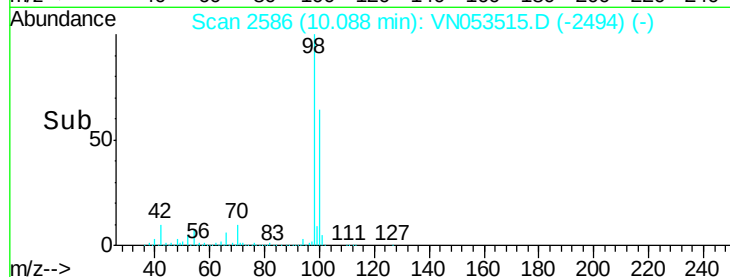
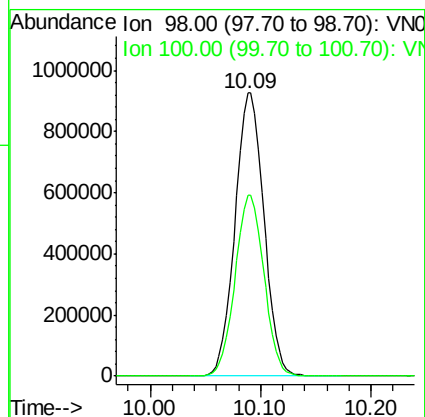
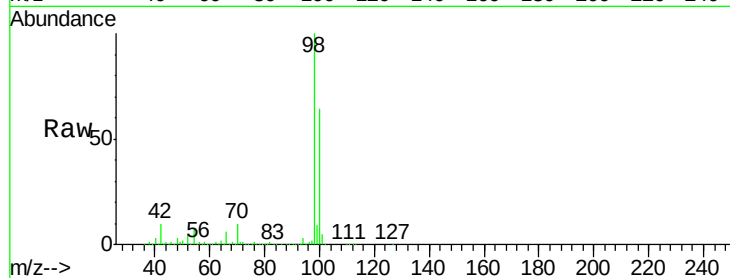
FML-124

Tot Ion: 98 Resp: 1687472

Ion Ratio Lower Upper

98 100

100 63.8 51.4 77.0



#56

Ethyl methacrylate

Concen: 2.063 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

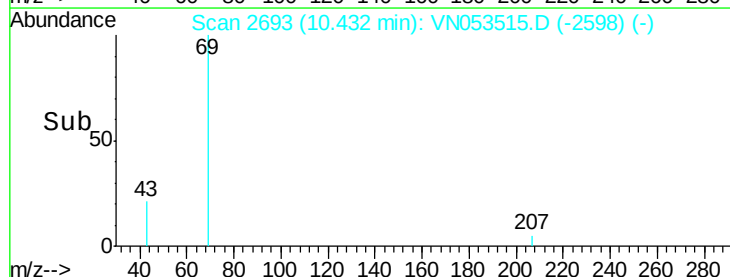
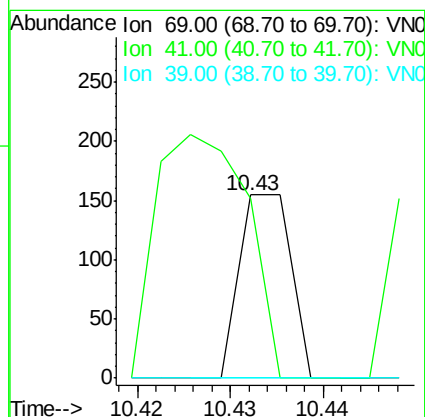
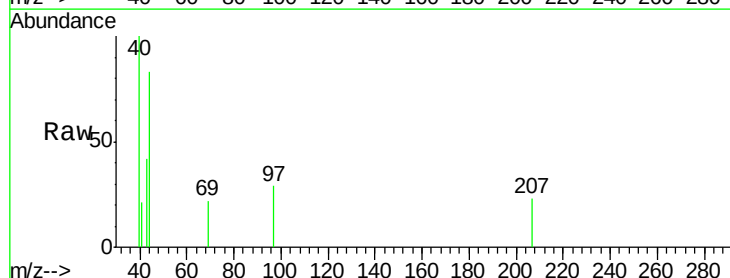
Tgt Ion: 69 Resp: 60

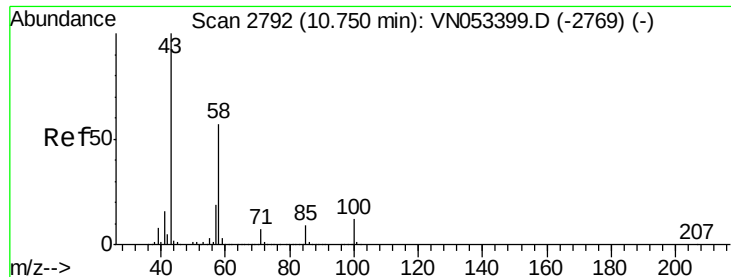
Ion Ratio Lower Upper

69 100

41 235.0 49.4 74.0#

39 0.0 23.3 34.9#

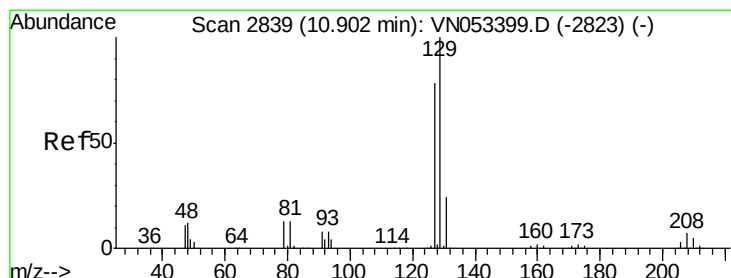
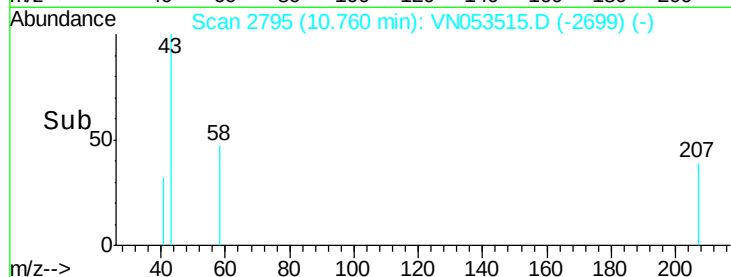
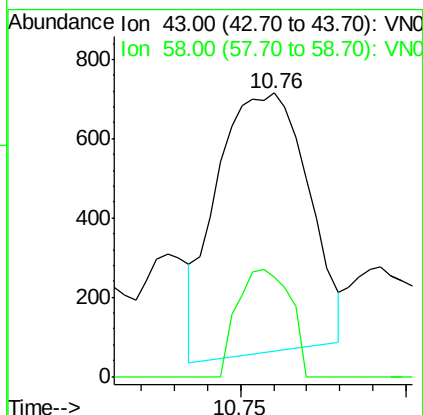
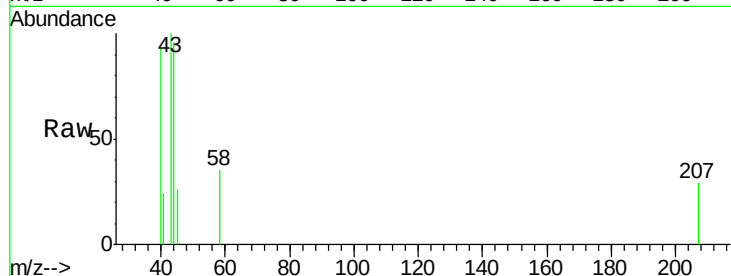




#59
 2-Hexanone
 Concen: 0.255 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN053515.D
 Acq: 22 Jan 2019 13:23

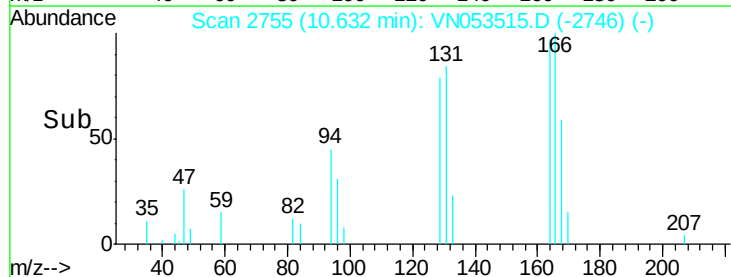
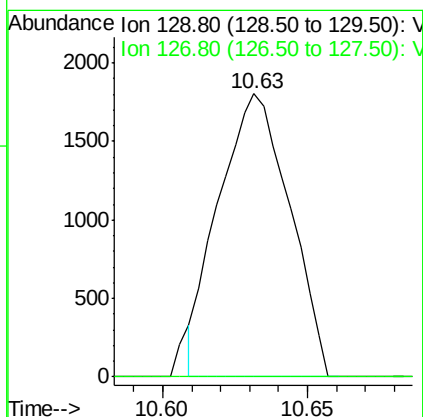
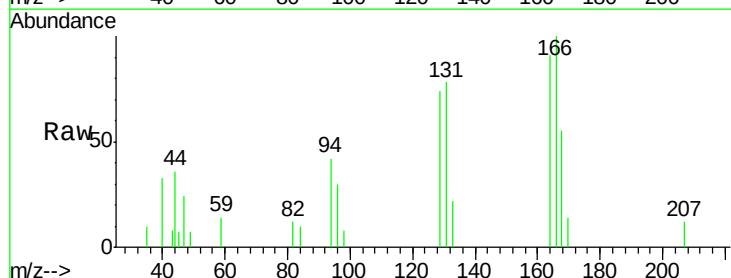
Instrument :
 MSVOA_N
 ClientSampled :
 FML-124

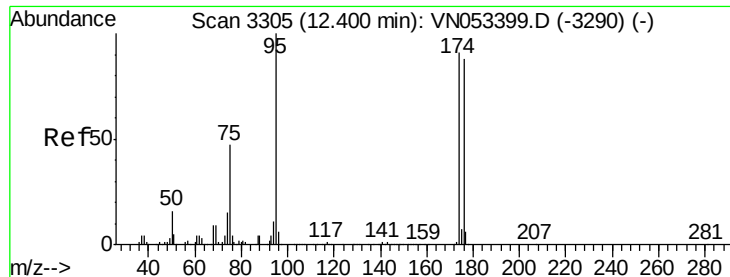
Tot Ion: 43 Resp: 1253
 Ion Ratio Lower Upper
 43 100
 58 23.8 28.6 85.8#



#60
 Dibromochloromethane
 Concen: 0.336 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN053515.D
 Acq: 22 Jan 2019 13:23

Tgt Ion: 129 Resp: 3070
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampled :

FML-124

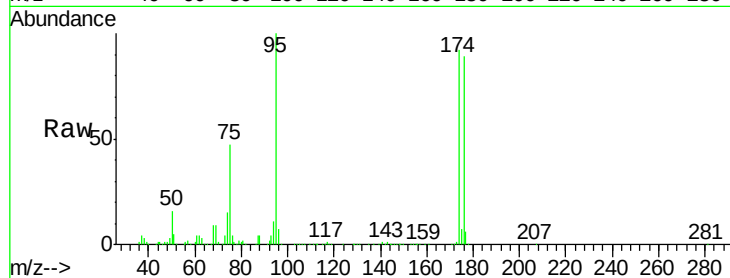
Tot Ion: 95 Resp: 561103

Ion Ratio Lower Upper

95 100

174 92.7 0.0 183.2

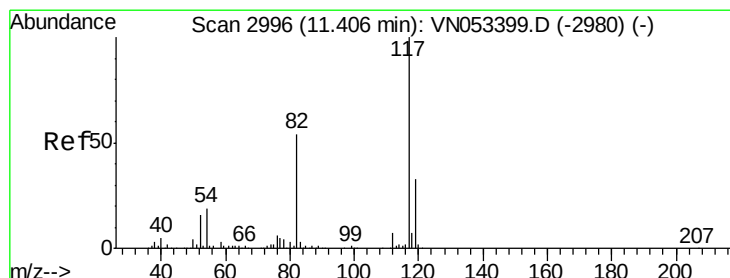
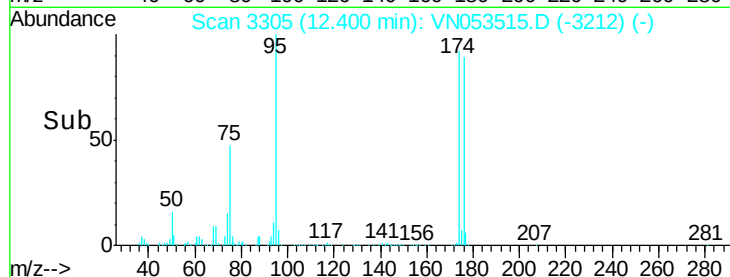
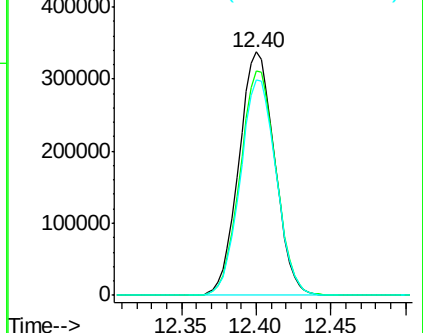
176 89.1 0.0 177.4



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# 2996

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

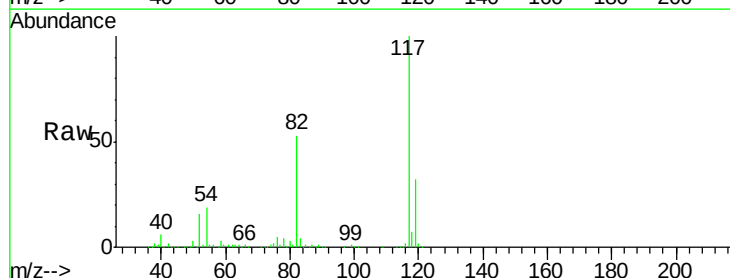
Tgt Ion: 117 Resp: 1257938

Ion Ratio Lower Upper

117 100

82 53.1 42.9 64.3

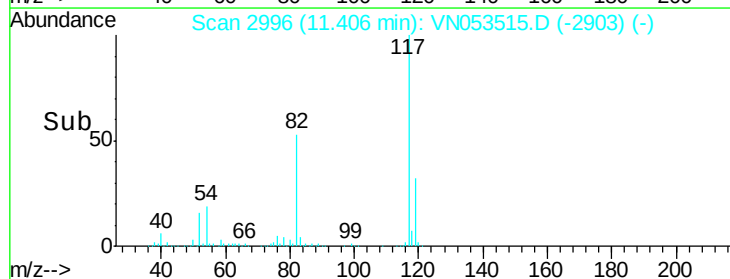
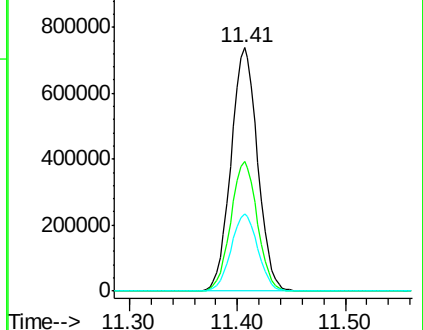
119 31.7 26.0 39.0

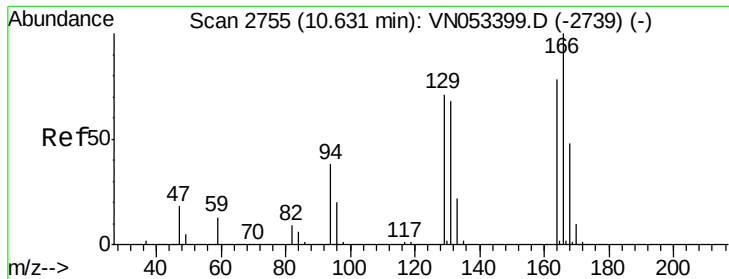


Abundance Ion 116.90 (116.60 to 117.60): VN053399.D (-2980) (-)

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

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





#64

Tetrachloroethene

Concen: 0.307 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

FML-124

Tot Ion:164 Resp: 3637

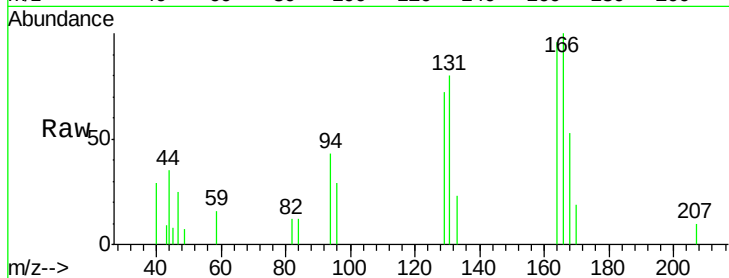
Ion Ratio Lower Upper

164 100

166 103.9 102.2 153.4

129 74.8 72.6 109.0

131 83.0 69.5 104.3

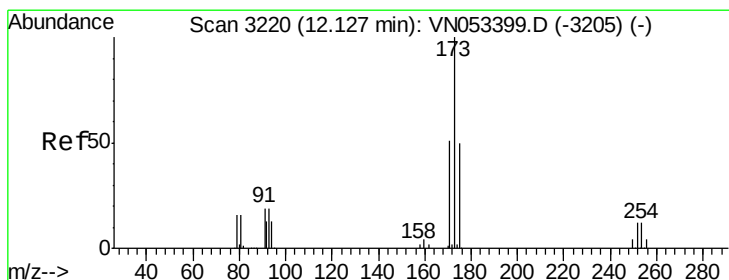
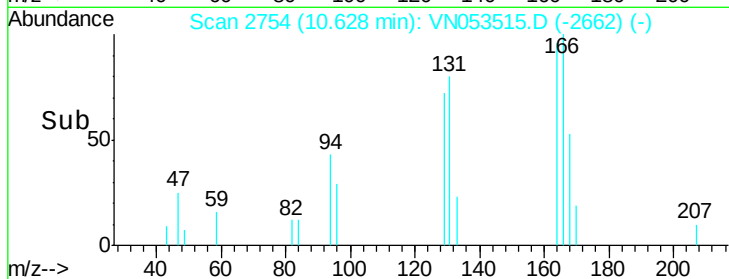
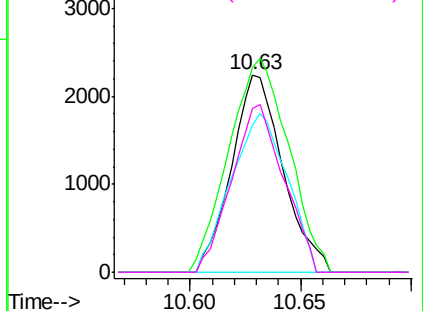


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.554 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

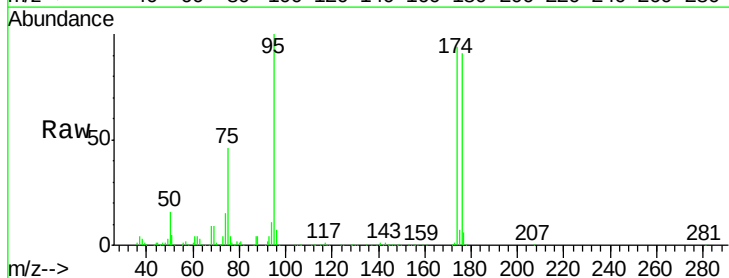
Tgt Ion:173 Resp: 3534

Ion Ratio Lower Upper

173 100

175 920.0 24.6 74.0#

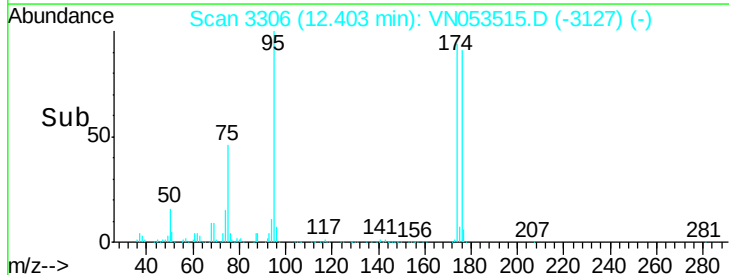
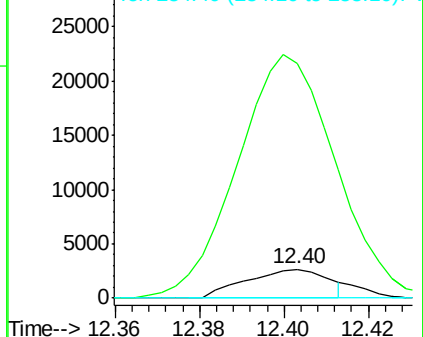
254 0.0 0.2 0.2#

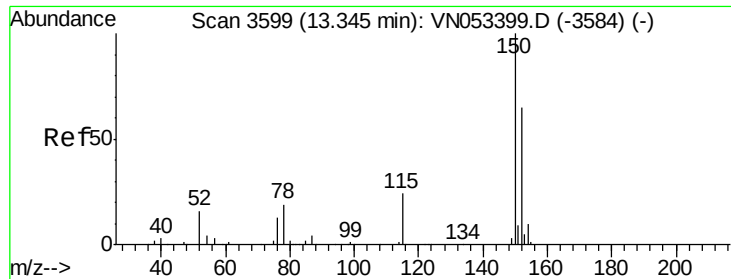


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

FML-124

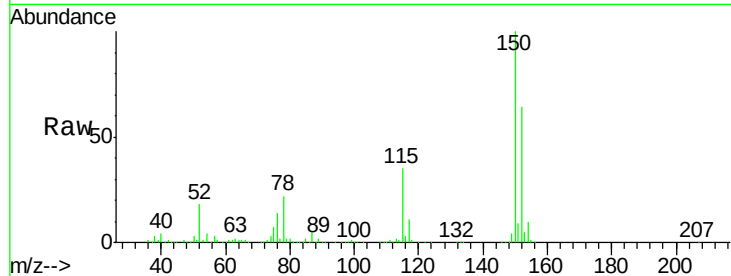
Tot Ion:152 Resp: 525321

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.4

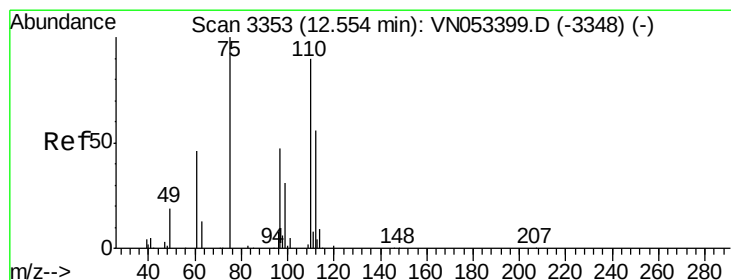
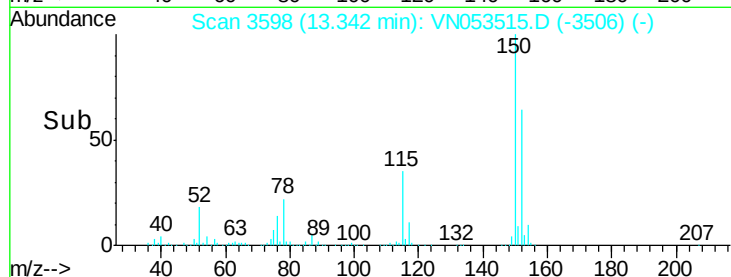
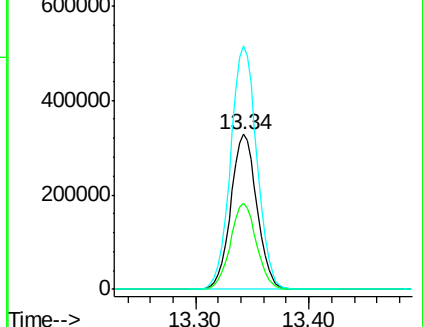
150 158.1 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 37.732 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053515.D

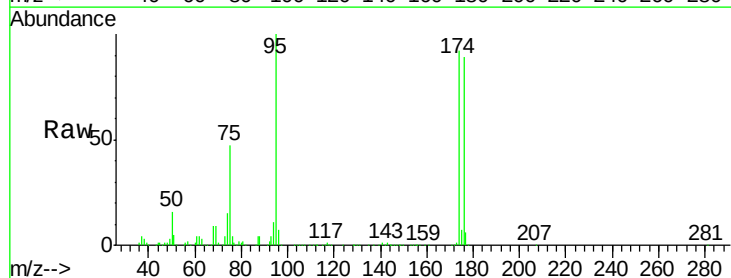
Acq: 22 Jan 2019 13:23

Tgt Ion: 75 Resp: 261206

Ion Ratio Lower Upper

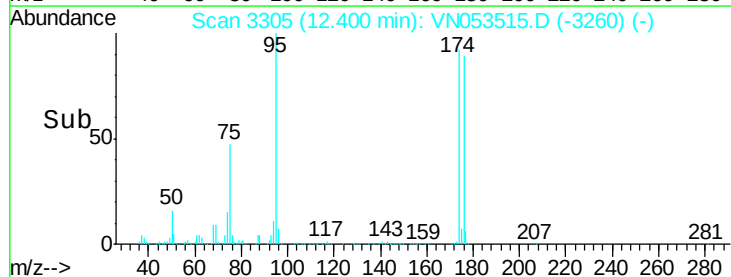
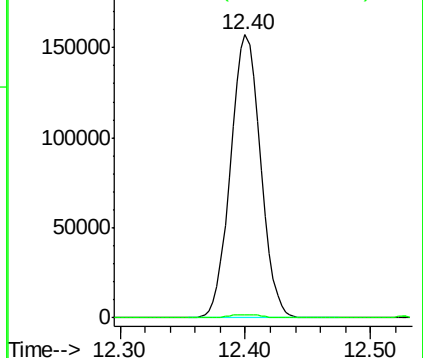
75 100

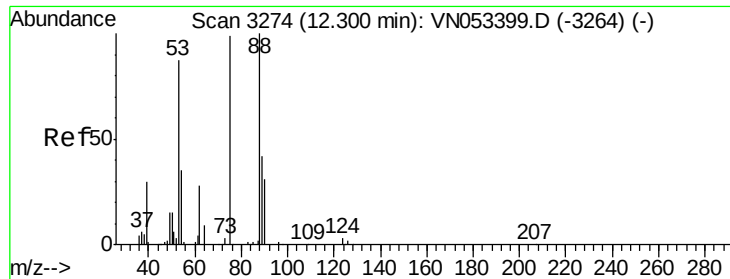
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 93.185 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

FML-124

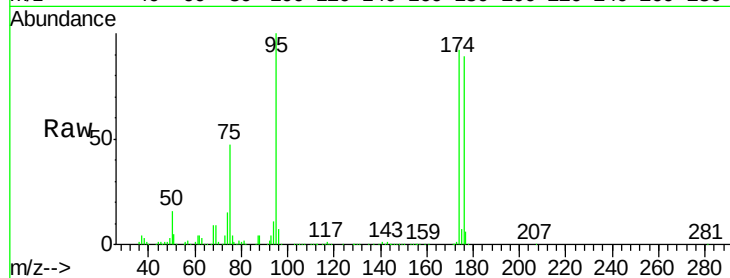
Tot Ion: 75 Resp: 261206

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

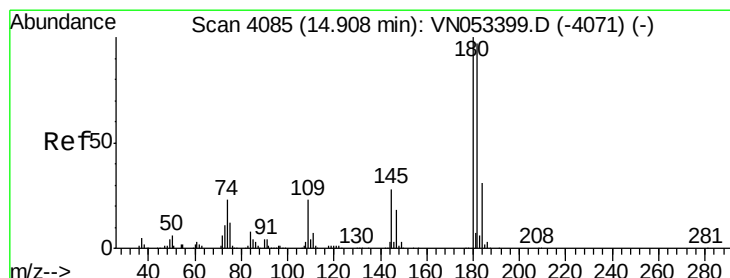
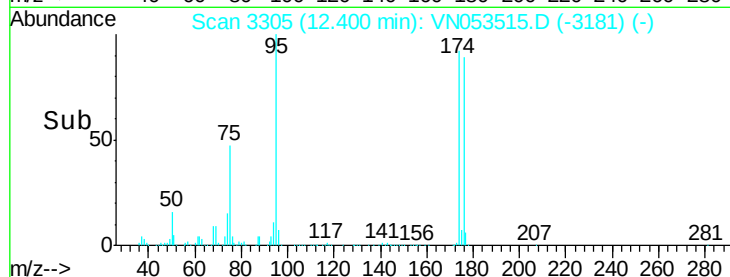
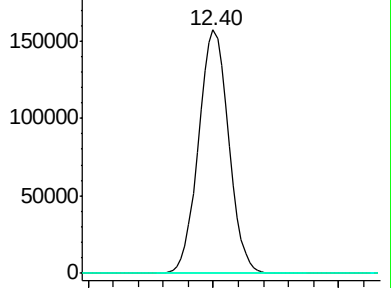
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN053399.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN053399.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.395 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

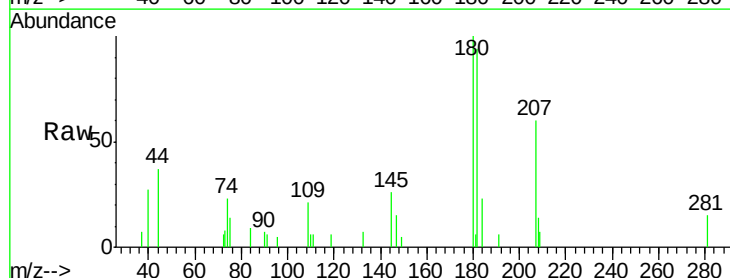
Tgt Ion: 180 Resp: 4814

Ion Ratio Lower Upper

180 100

182 88.9 48.1 144.3

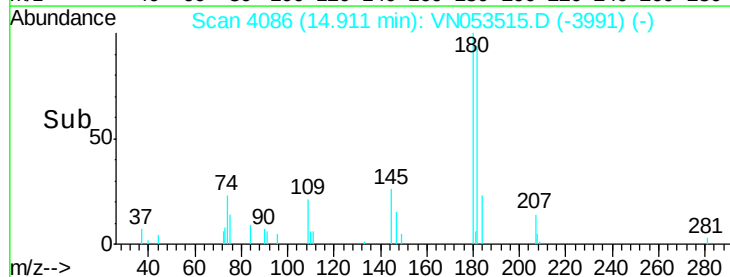
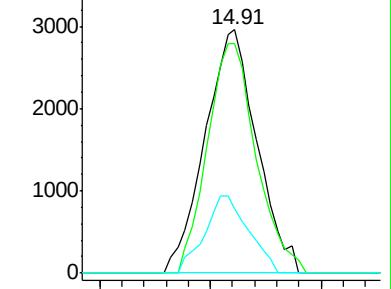
145 26.9 13.9 41.6

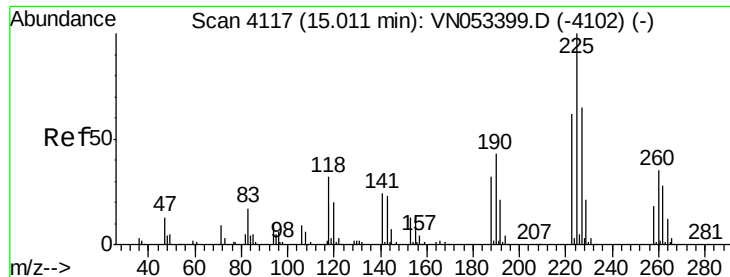


Abundance Ion 179.80 (179.50 to 180.50): VN053399.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN053399.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN053399.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: 0.366 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampled :

FML-124

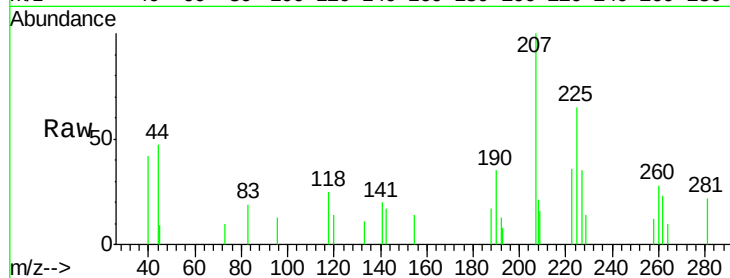
Tot Ion:225 Resp: 1874

Ion Ratio Lower Upper

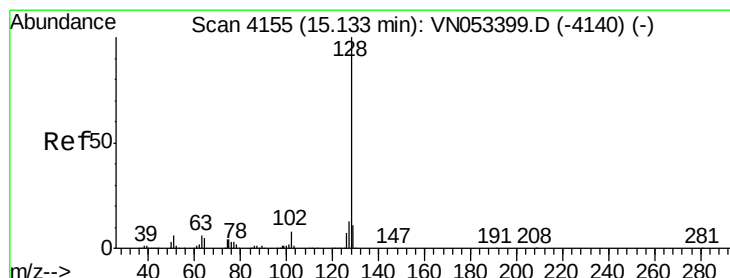
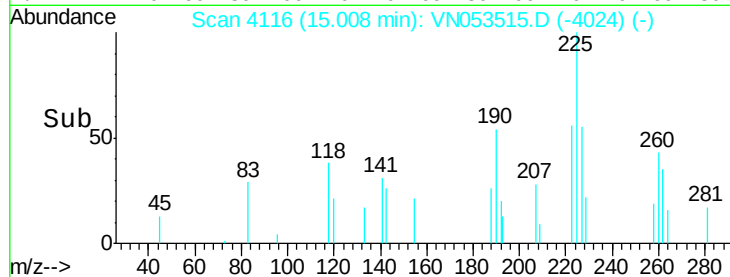
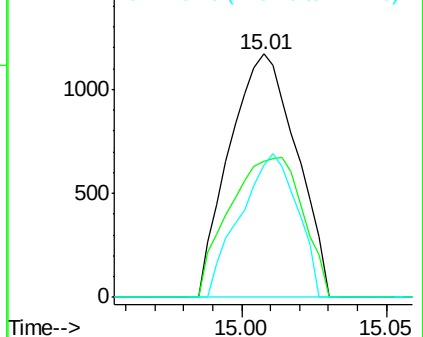
225 100

223 63.2 31.1 93.2

227 50.2 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.711 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

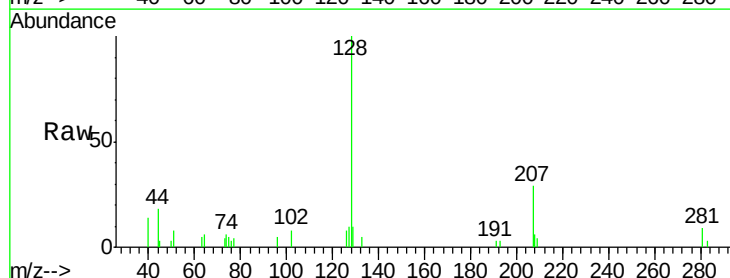
Tgt Ion:128 Resp: 10645

Ion Ratio Lower Upper

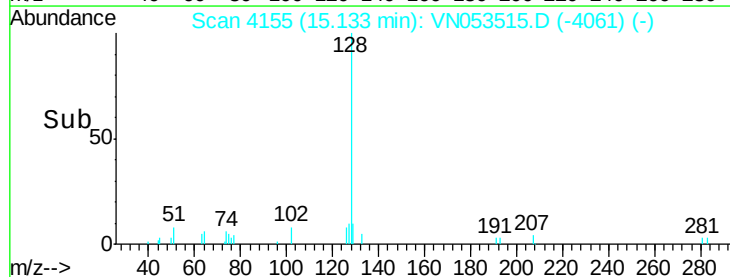
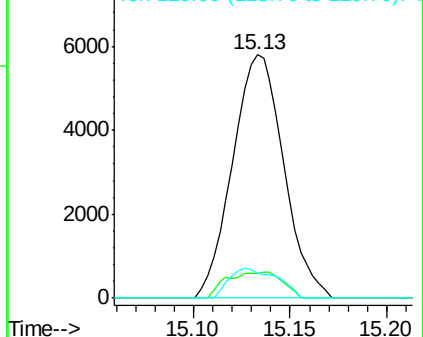
128 100

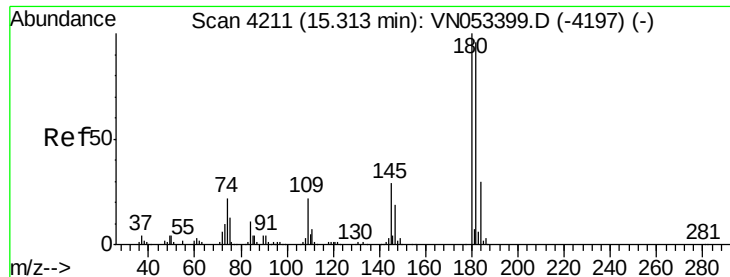
127 11.7 10.3 15.5

129 11.5 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





#96

1,2,3-Trichlorobenzene

Concen: 4.749 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053515.D

Acq: 22 Jan 2019 13:23

Instrument :

MSVOA_N

ClientSampleId :

FML-124

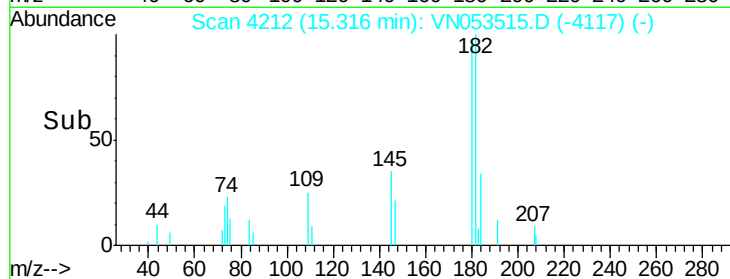
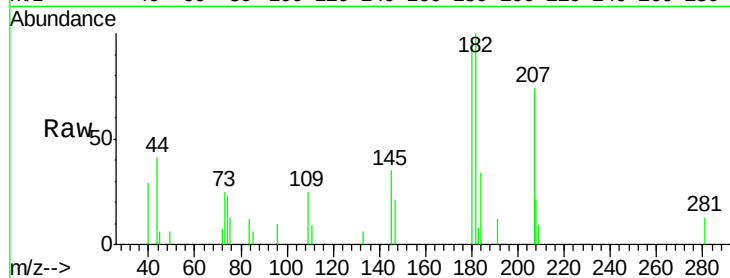
Tot Ion:180 Resp: 4855

Ion Ratio Lower Upper

180 100

182 99.7 47.9 143.8

145 31.3 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

