

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012219\
 Data File : VN053517.D
 Acq On : 22 Jan 2019 14:16
 Operator : JC/SP
 Sample : K1215-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW524-3337

Quant Time: Jan 23 02:54:32 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	827190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1285620	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1190614	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	528860	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	416171	50.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.80%	
35) Dibromofluoromethane	7.59	113	383856	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
50) Toluene-d8	10.09	98	1592877	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
62) 4-Bromofluorobenzene	12.40	95	544769	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	

Target Compounds

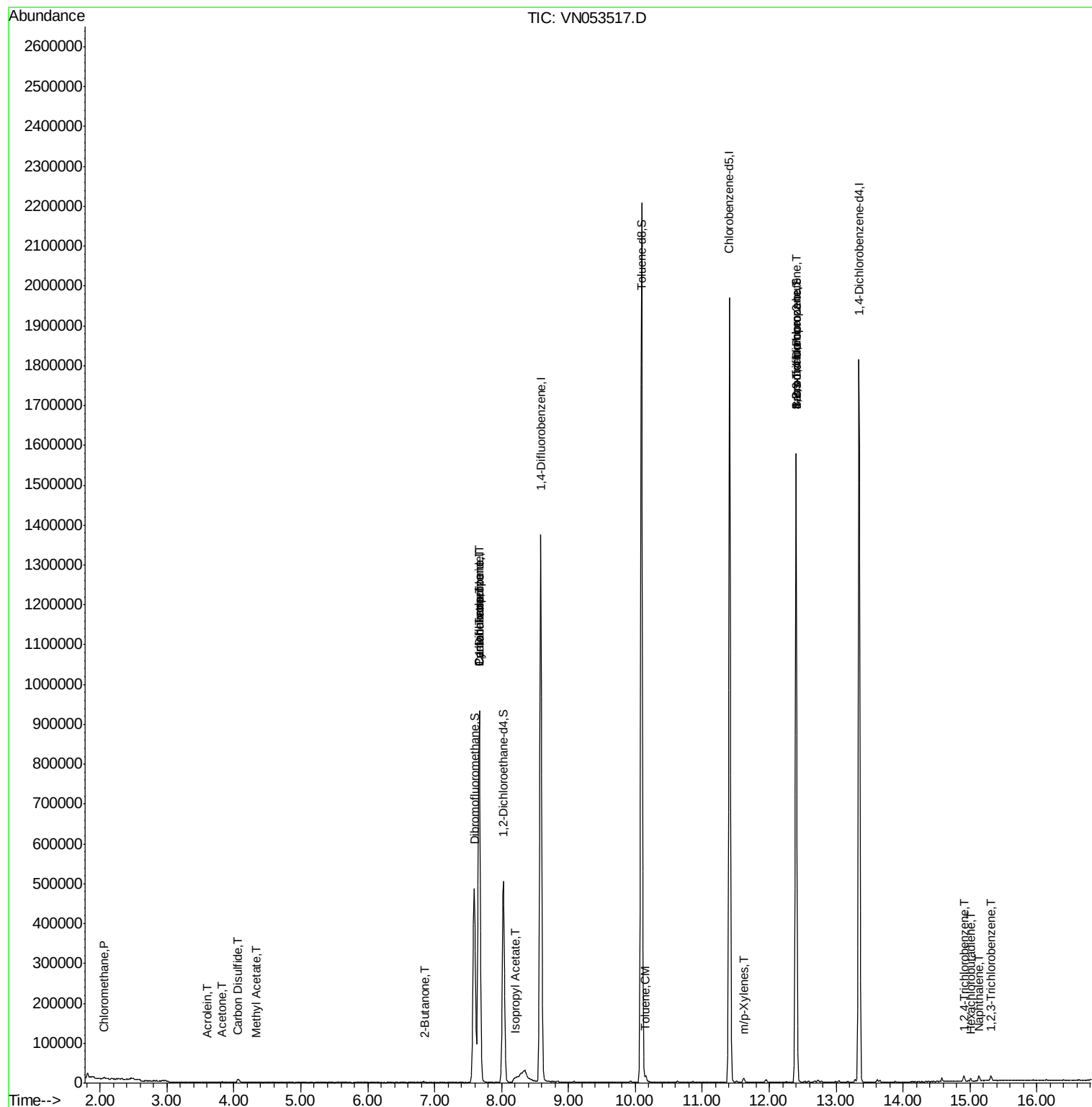
					Qvalue	
3) Chloromethane	2.06	50	2569	0.270	ug/l	94
13) Acrolein	3.62	56	231	23.007	ug/l #	14
16) Acetone	3.83	43	3802	1.982	ug/l	96
17) Carbon Disulfide	4.05	76	4618	0.207	ug/l	98
18) Methyl Acetate	4.33	43	1482	0.229	ug/l #	60
25) 2-Butanone	6.86	43	703	0.238	ug/l #	47
31) Cyclohexane	7.66	56	13442	0.715	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	54036	4.615	ug/l #	49
38) Carbon Tetrachloride	7.67	117	71697	6.468	ug/l #	16
43) Isopropyl Acetate	8.20	43	10254	0.847	ug/l #	51
52) Toluene	10.16	92	5892	0.267	ug/l	90
68) m/p-Xylenes	11.62	106	3497	0.216	ug/l	91
71) Bromoform	12.40	173	3132	0.519	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	252945	36.294	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	252945	89.730	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	5120	3.430	ug/l	97
94) Hexachlorobutadiene	15.01	225	1572	0.305	ug/l	94
95) Naphthalene	15.13	128	11260	4.750	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	5400	4.838	ug/l	95

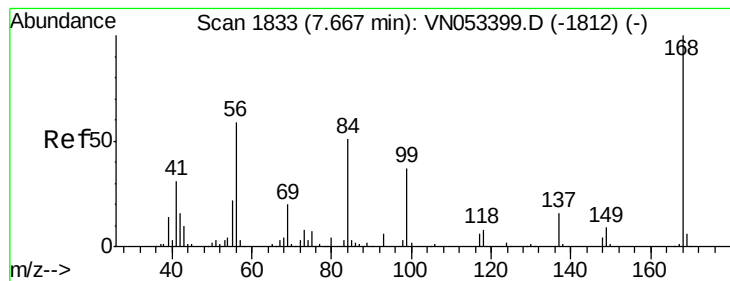
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 03:10:53 2019
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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: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

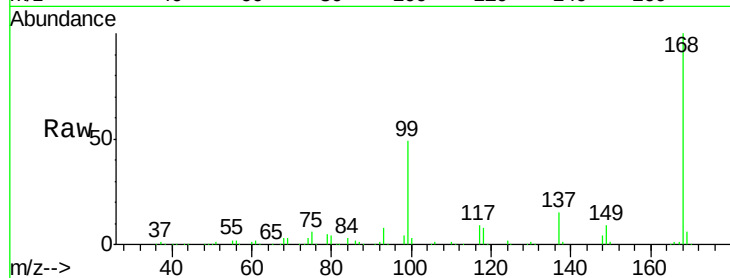
SA-TW524-3337

Tot Ion:168 Resp: 827190

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): VN0

7.67

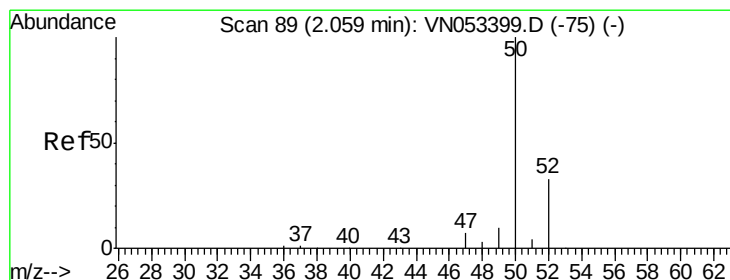
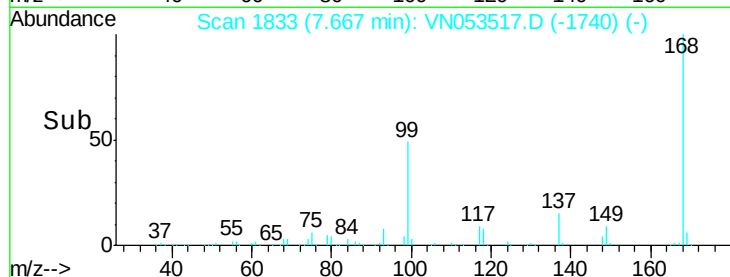
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.270 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053517.D

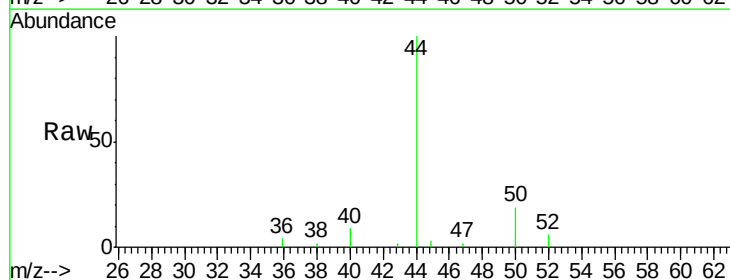
Acq: 22 Jan 2019 14:16

Tgt Ion: 50 Resp: 2569

Ion Ratio Lower Upper

50 100

52 30.0 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2000

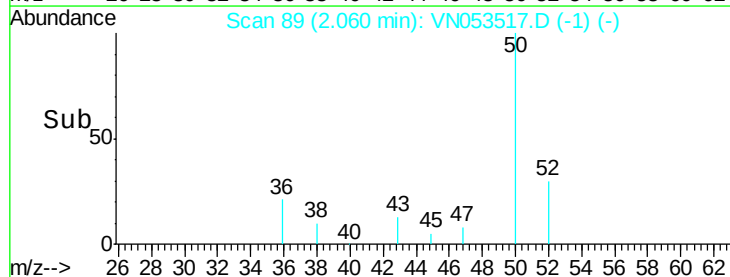
1500

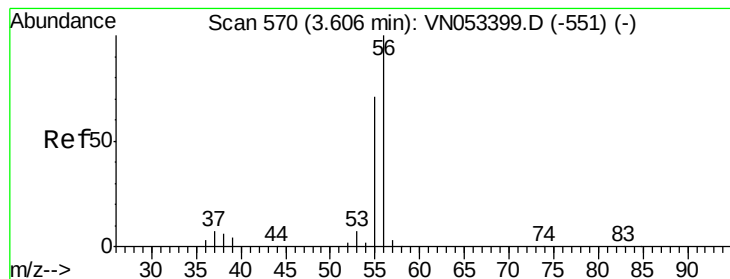
1000

500

0

Time-->





#13

Acrolein

Concen: 23.007 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

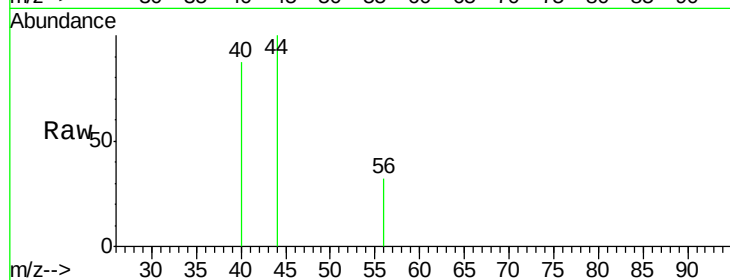
SA-TW524-3337

Tot Ion: 56 Resp: 231

Ion Ratio Lower Upper

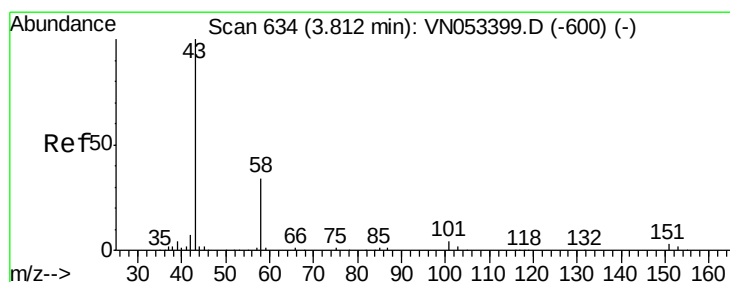
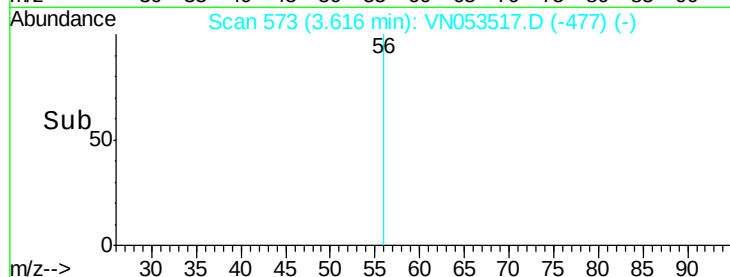
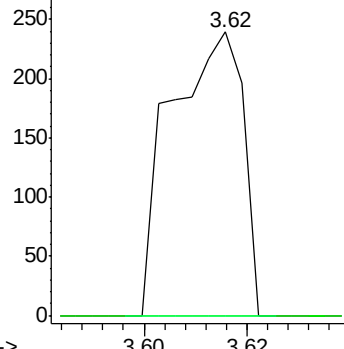
56 100

55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.982 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN053517.D

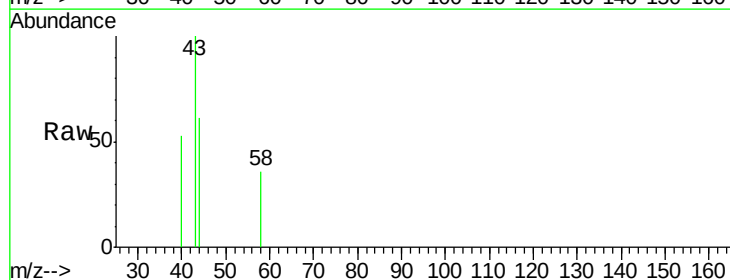
Acq: 22 Jan 2019 14:16

Tgt Ion: 43 Resp: 3802

Ion Ratio Lower Upper

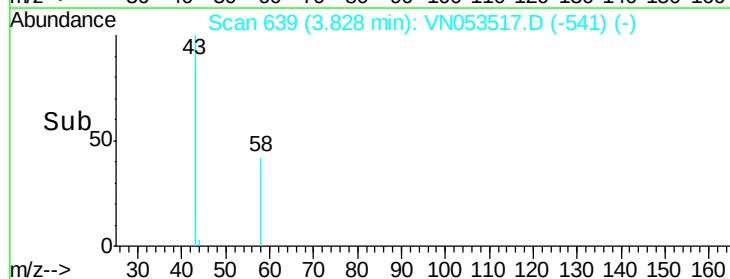
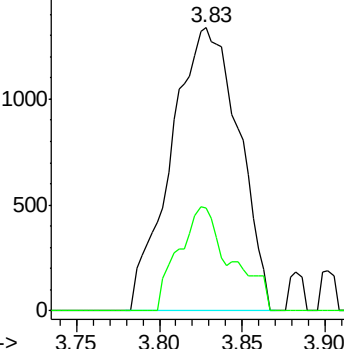
43 100

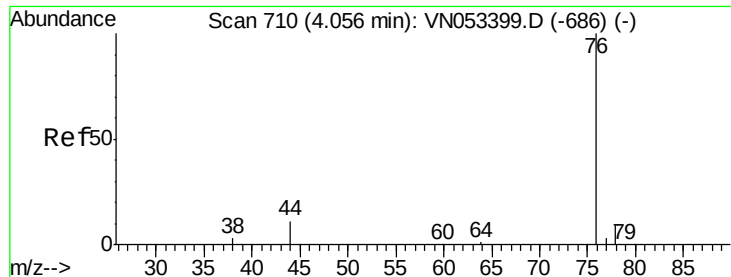
58 36.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

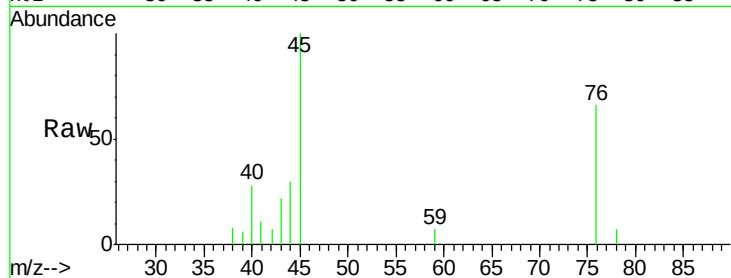
SA-TW524-3337

Tot Ion: 76 Resp: 4618

Ion Ratio Lower Upper

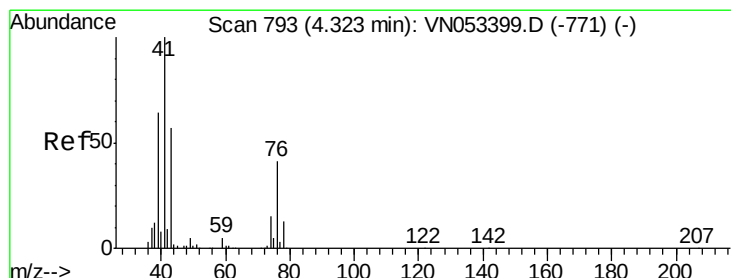
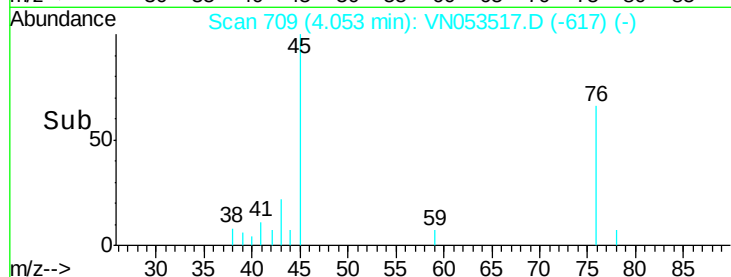
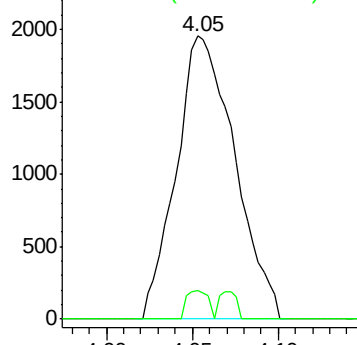
76 100

78 9.9 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 0.229 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053517.D

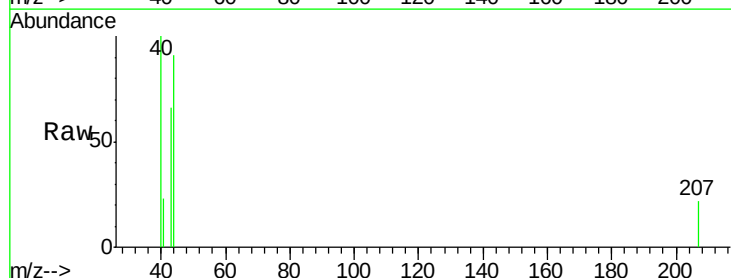
Acq: 22 Jan 2019 14:16

Tgt Ion: 43 Resp: 1482

Ion Ratio Lower Upper

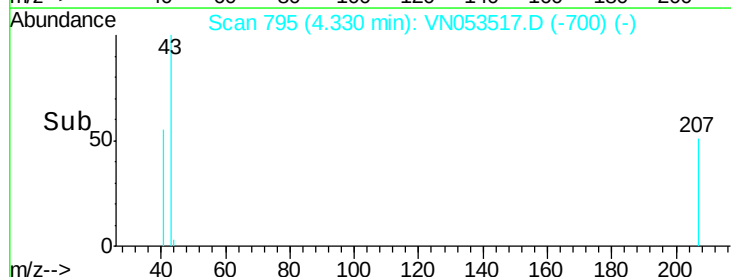
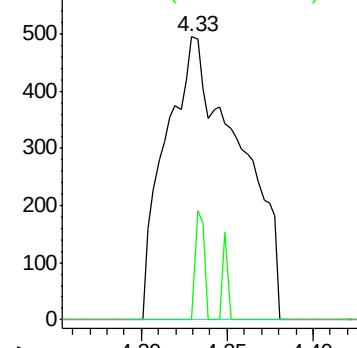
43 100

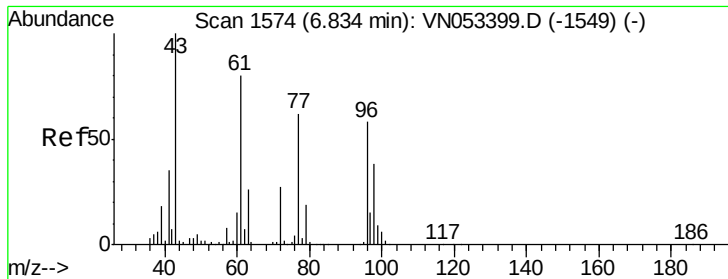
74 4.7 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.238 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.03 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

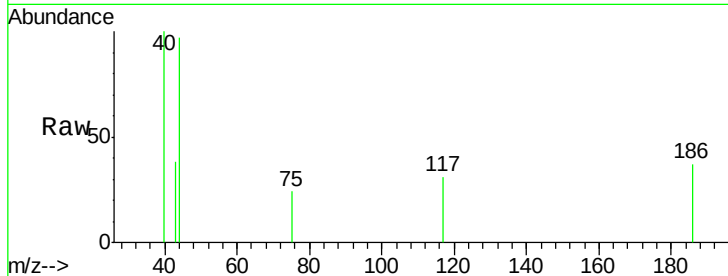
SA-TW524-3337

Tot Ion: 43 Resp: 703

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.86

300

250

200

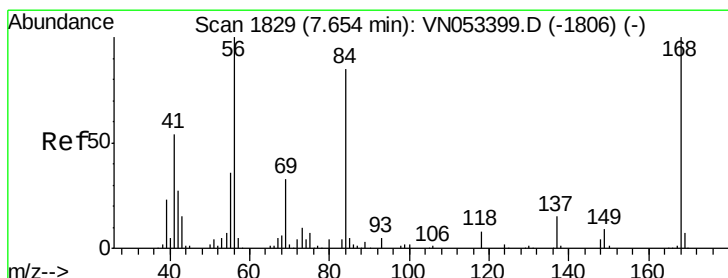
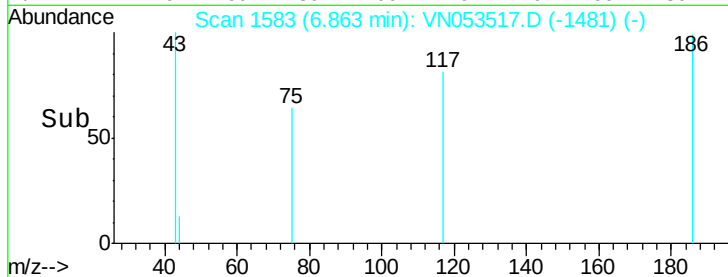
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 0.715 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

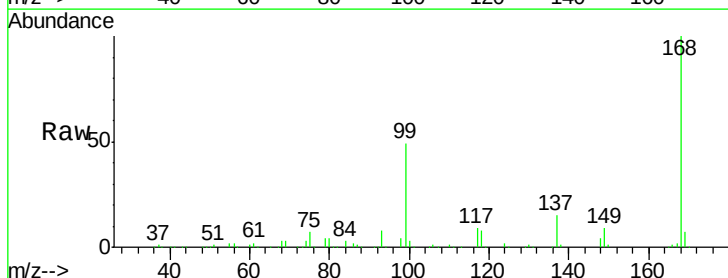
Tgt Ion: 56 Resp: 13442

Ion Ratio Lower Upper

56 100

69 192.8 26.4 39.6#

84 163.5 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

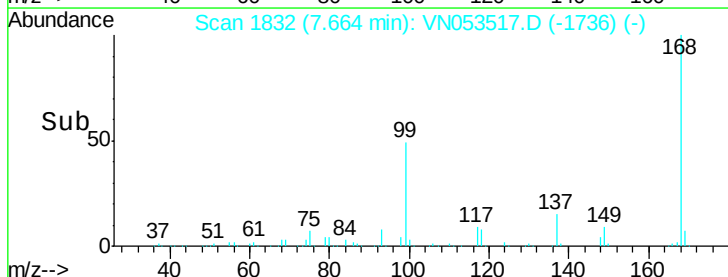
15000

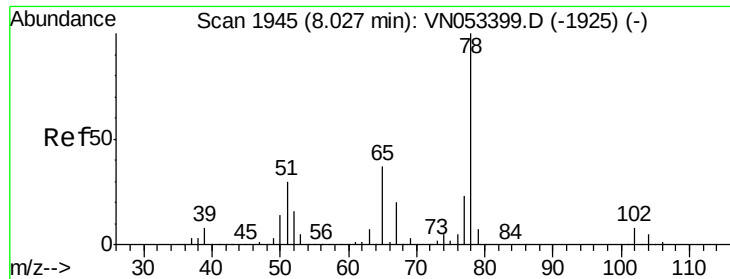
10000

5000

0

Time-->

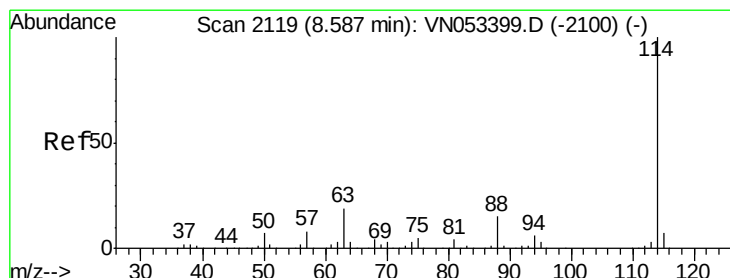
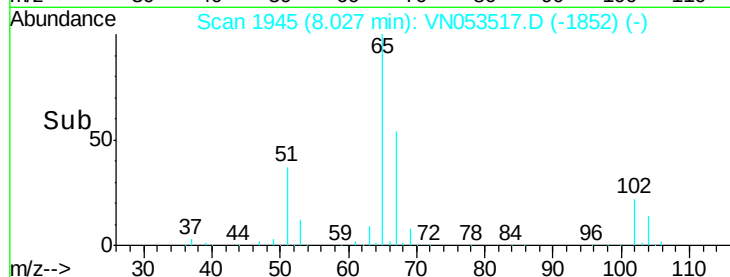
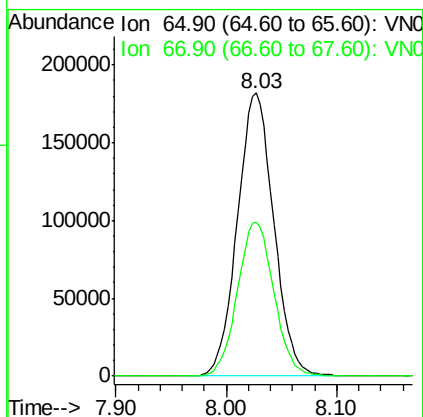
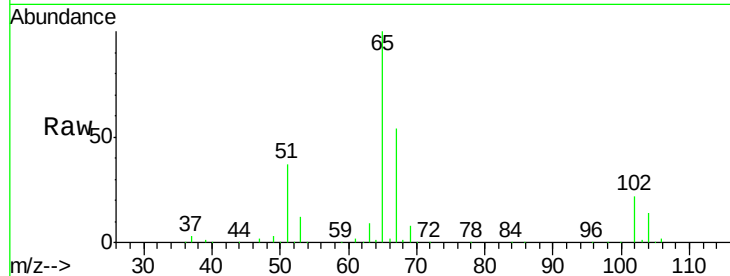




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053517.D
 Acq: 22 Jan 2019 14:16

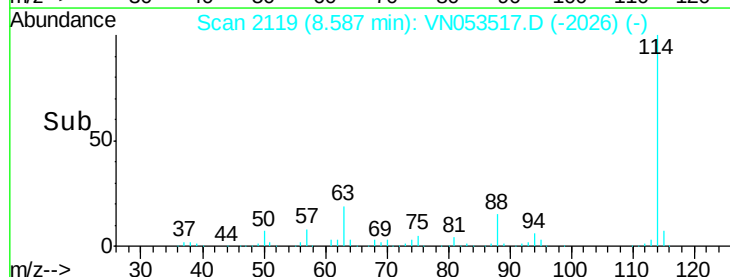
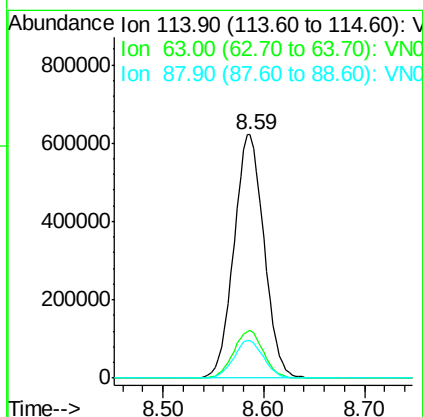
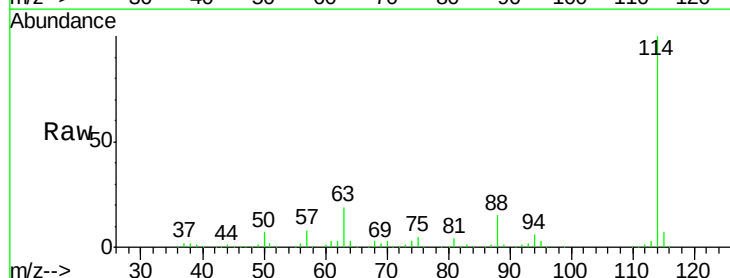
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW524-3337

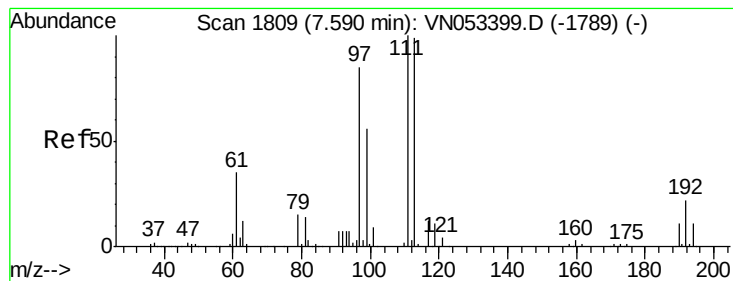
Tot Ion: 65 Resp: 416171
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053517.D
 Acq: 22 Jan 2019 14:16

Tgt Ion: 114 Resp: 1285620
 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# 1810

Delta R.T. 0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

SA-TW524-3337

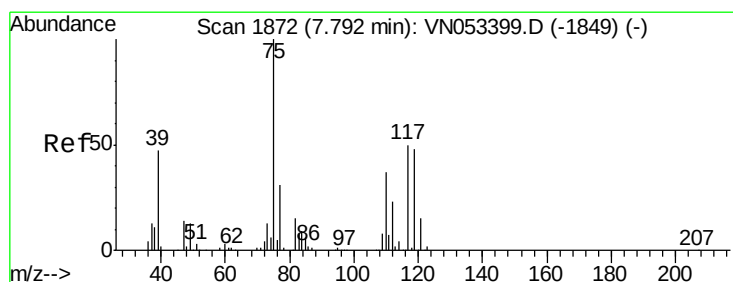
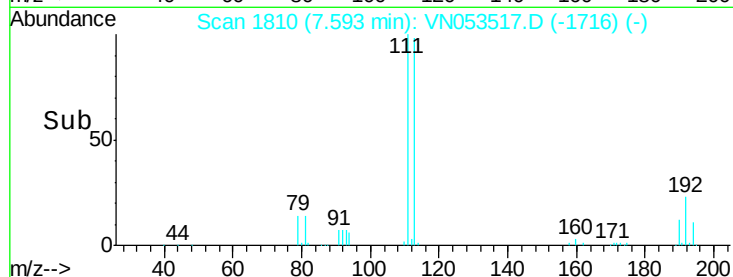
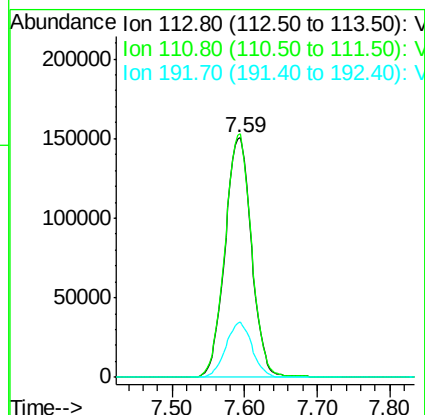
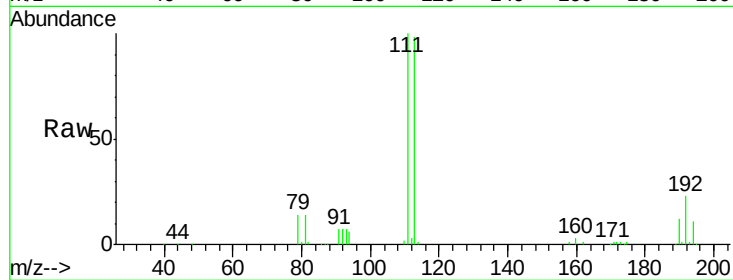
Tot Ion:113 Resp: 383856

Ion Ratio Lower Upper

113 100

111 100.5 81.1 121.7

192 22.6 18.2 27.2



#36

1,1-Dichloropropene

Concen: 4.615 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

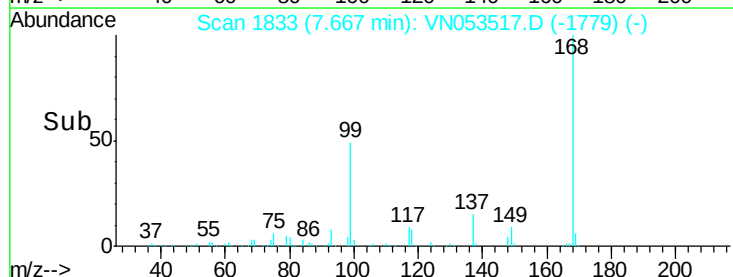
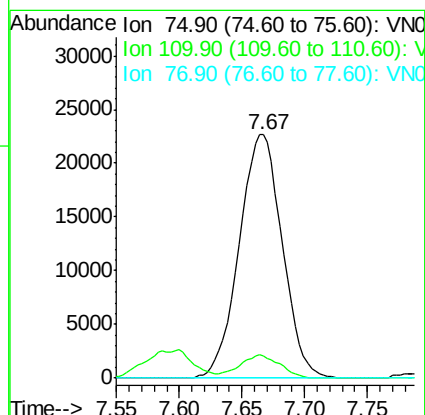
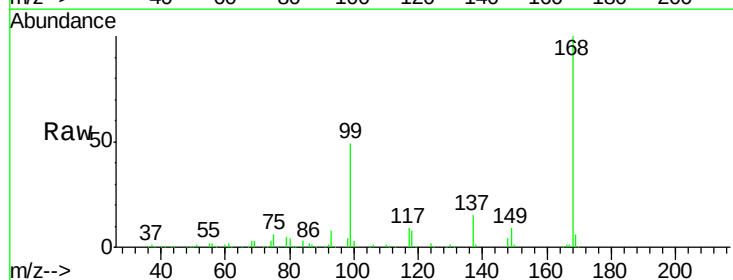
Tgt Ion: 75 Resp: 54036

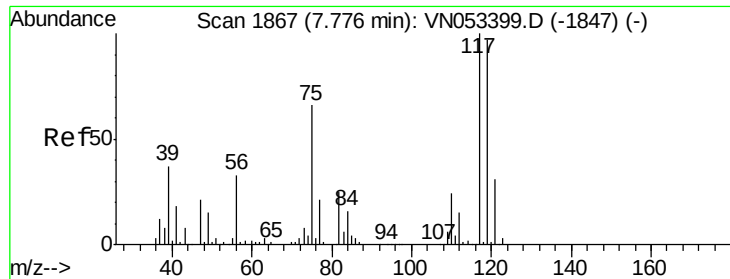
Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

SA-TW524-3337

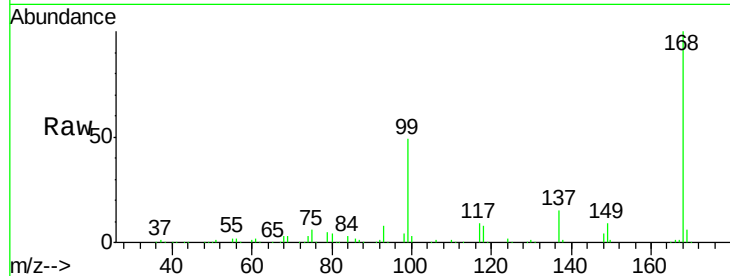
Tot Ion:117 Resp: 71697

Ion Ratio Lower Upper

117 100

119 5.5 77.2 115.8#

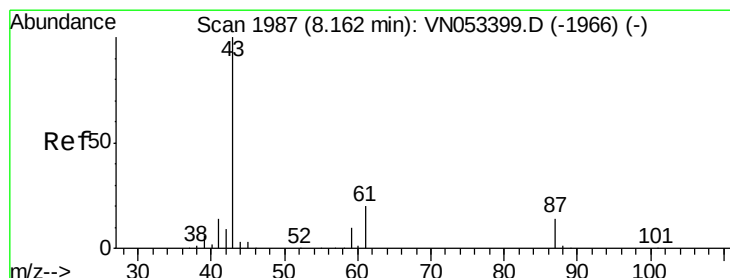
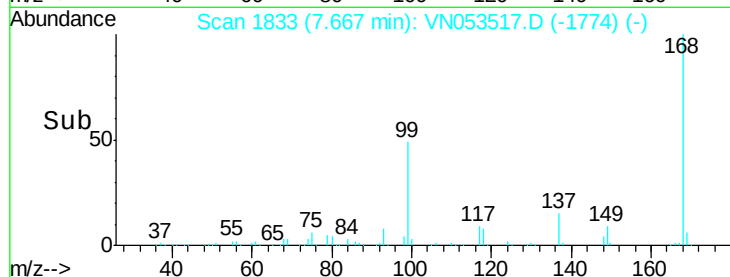
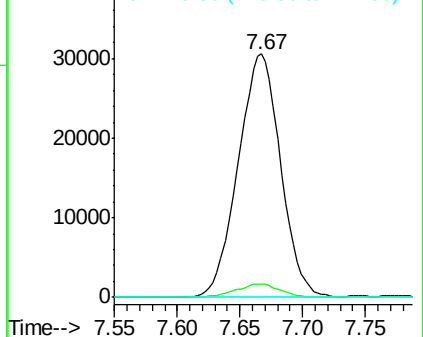
121 0.0 24.6 37.0#



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: 0.847 ug/l

RT: 8.20 min Scan# 1999

Delta R.T. 0.04 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

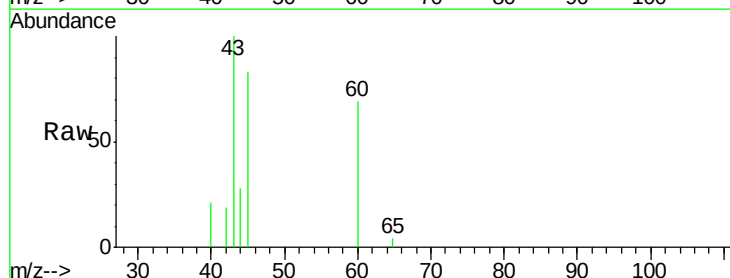
Tgt Ion: 43 Resp: 10254

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

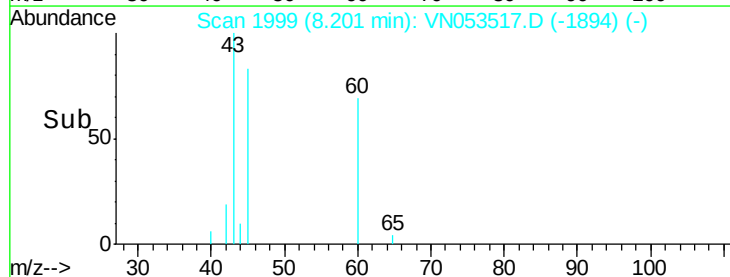
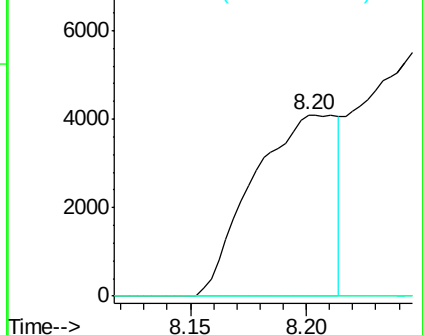
87 0.0 11.0 16.6#

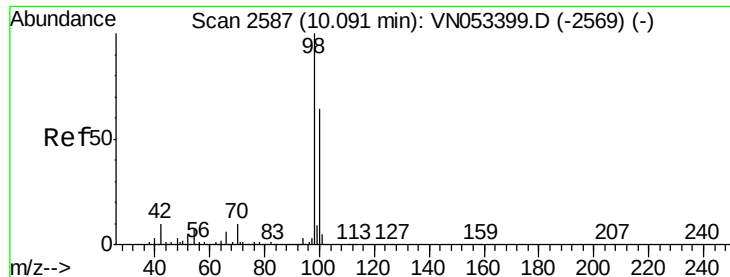


Abundance Ion 43.00 (42.70 to 43.70): V

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: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

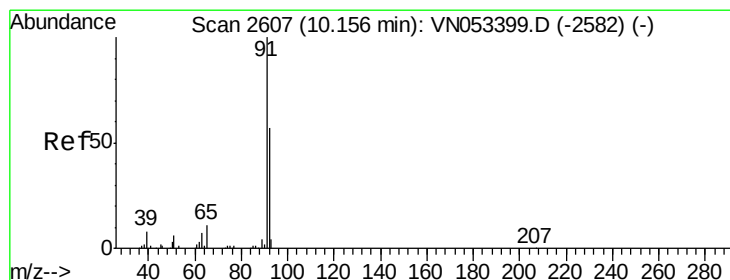
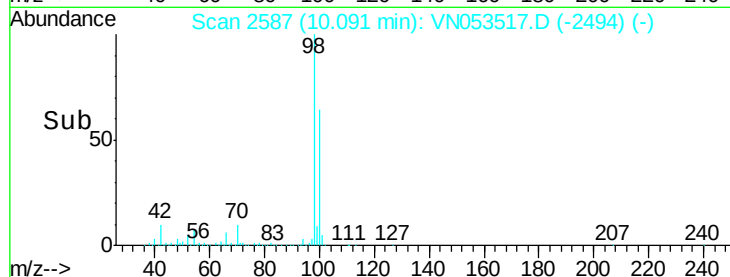
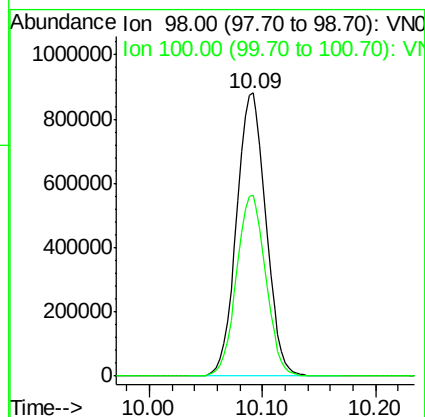
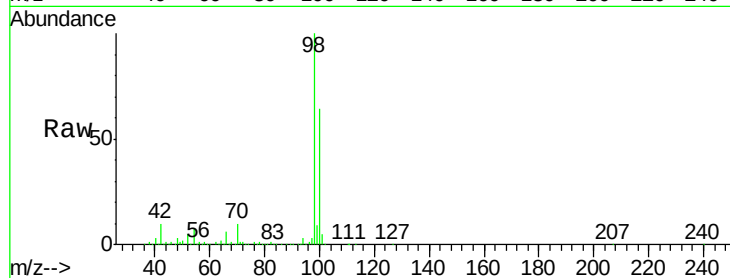
SA-TW524-3337

Tot Ion: 98 Resp: 1592877

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0



#52

Toluene

Concen: 0.267 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053517.D

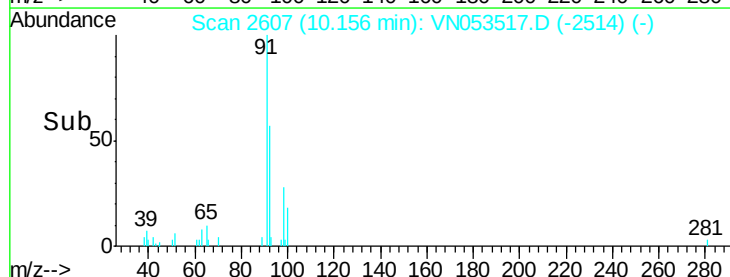
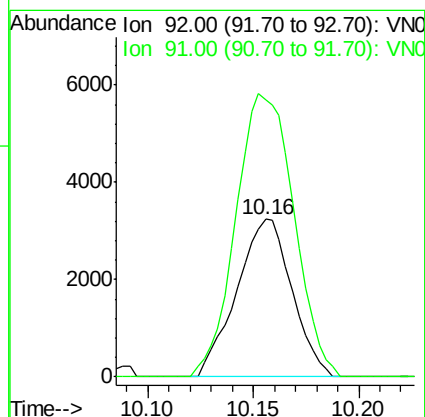
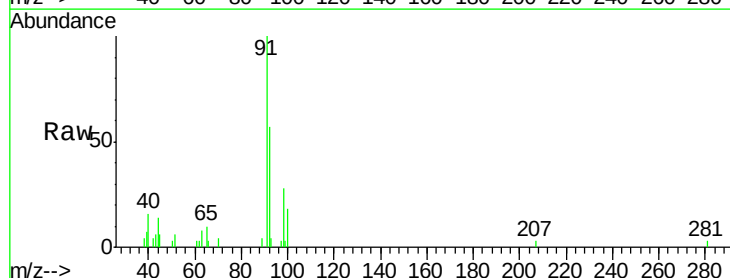
Acq: 22 Jan 2019 14:16

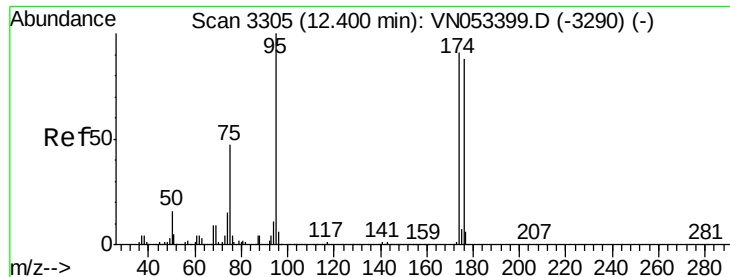
Tgt Ion: 92 Resp: 5892

Ion Ratio Lower Upper

92 100

91 189.3 139.9 209.9





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

SA-TW524-3337

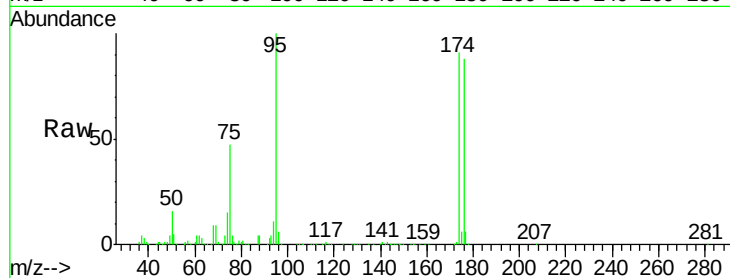
Tot Ion: 95 Resp: 544769

Ion Ratio Lower Upper

95 100

174 91.5 0.0 183.2

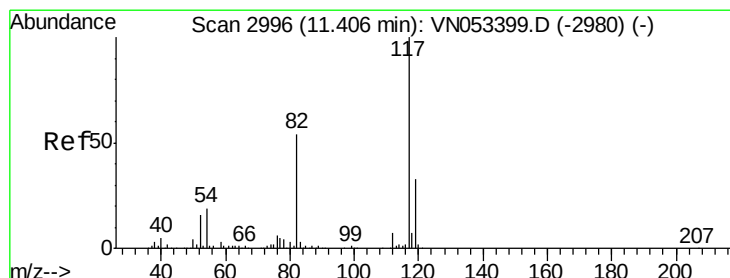
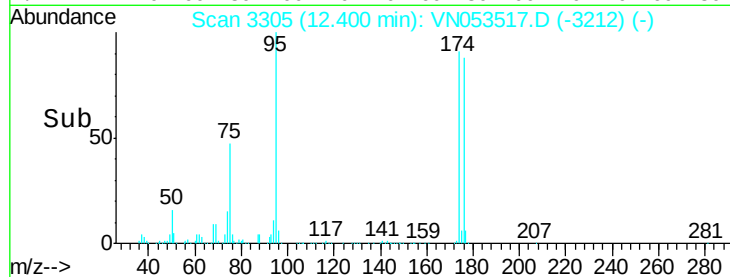
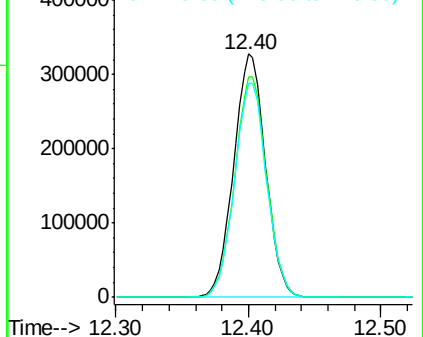
176 88.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053517.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN053517.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN053517.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

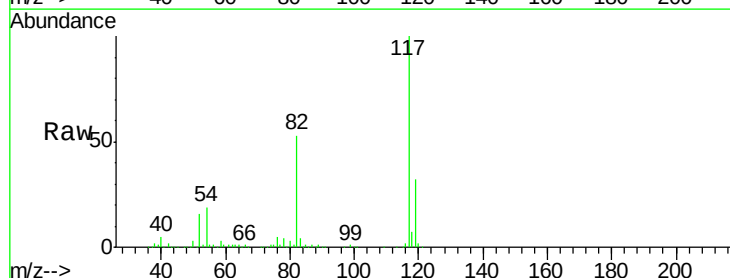
Tgt Ion: 117 Resp: 1190614

Ion Ratio Lower Upper

117 100

82 53.2 42.9 64.3

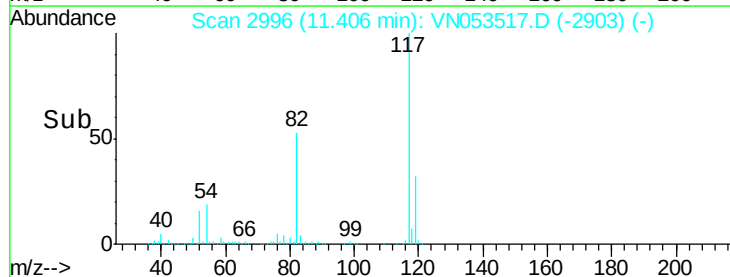
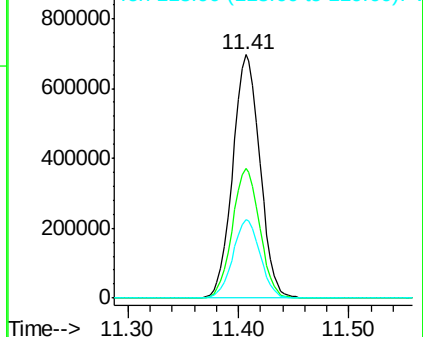
119 32.4 26.0 39.0

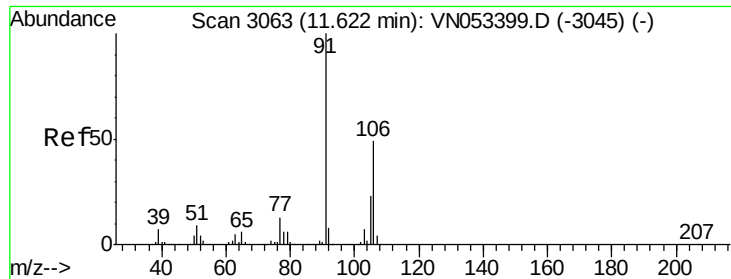


Abundance Ion 116.90 (116.60 to 117.60): VN053517.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053517.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053517.D (-2903) (-)

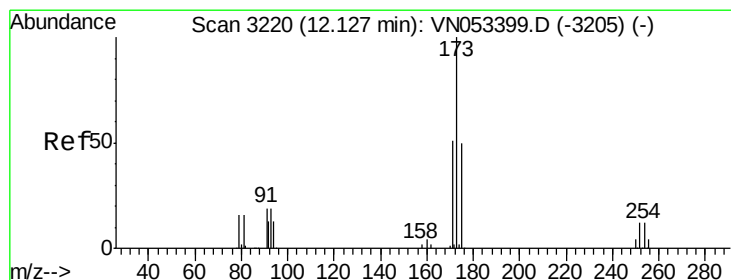
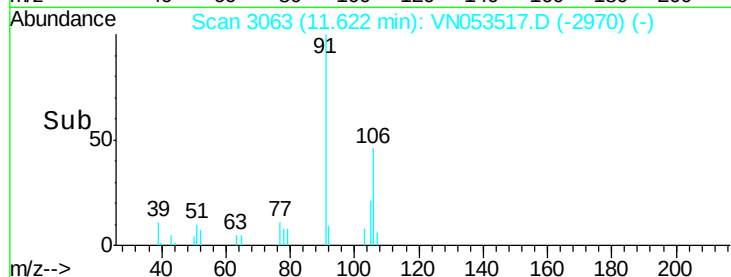
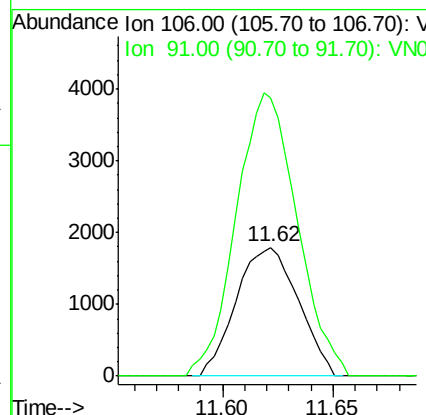
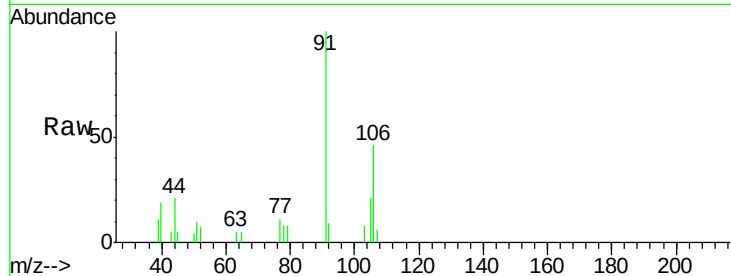




#68
m/p-Xylenes
Concen: 0.216 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053517.D
Acq: 22 Jan 2019 14:16

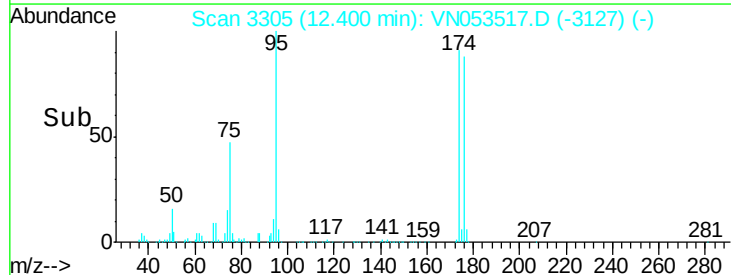
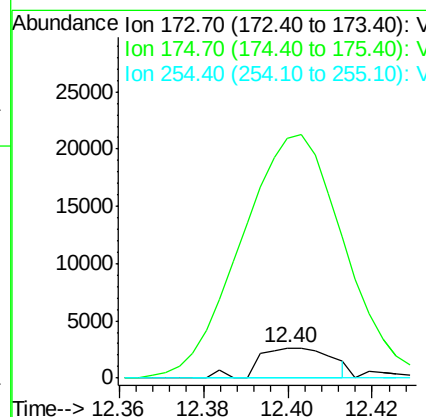
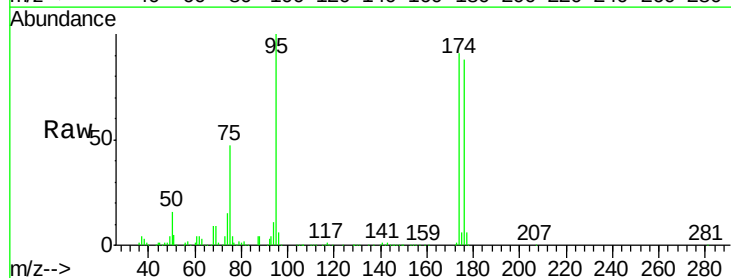
Instrument :
MSVOA_N
ClientSampleId :
SA-TW524-3337

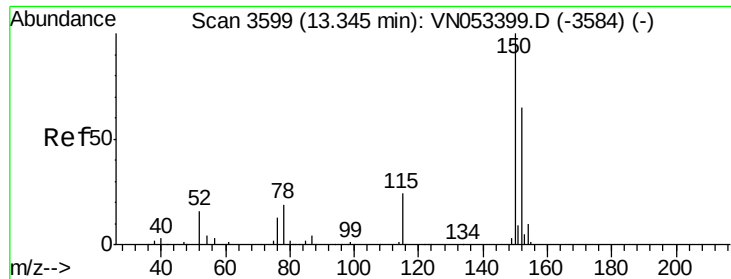
Tot Ion:106 Resp: 3497
Ion Ratio Lower Upper
106 100
91 216.1 161.4 242.2



#71
Bromoform
Concen: 0.519 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053517.D
Acq: 22 Jan 2019 14:16

Tgt Ion:173 Resp: 3132
Ion Ratio Lower Upper
173 100
175 1015.7 24.6 74.0#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

SA-TW524-3337

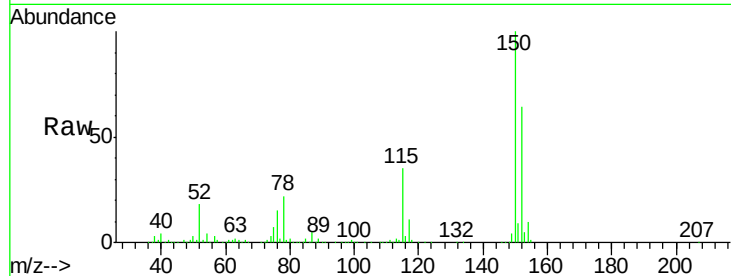
Tot Ion:152 Resp: 528860

Ion Ratio Lower Upper

152 100

115 55.3 27.8 83.4

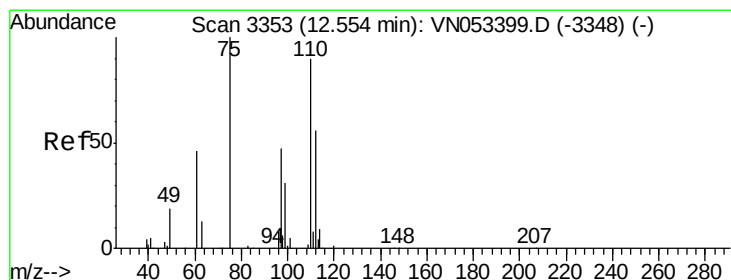
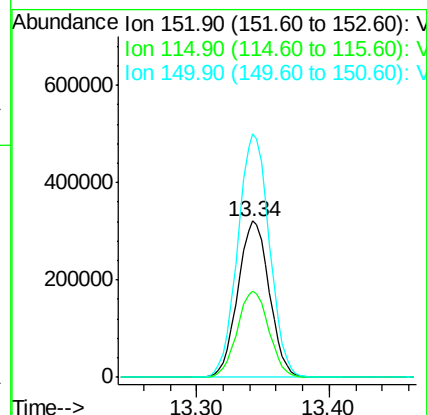
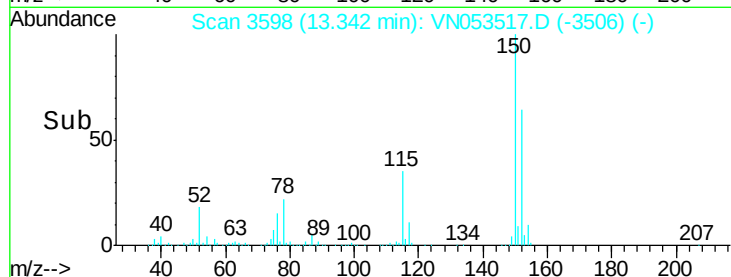
150 156.4 0.0 349.0



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



#76

1,2,3-Trichloropropane

Concen: 36.294 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053517.D

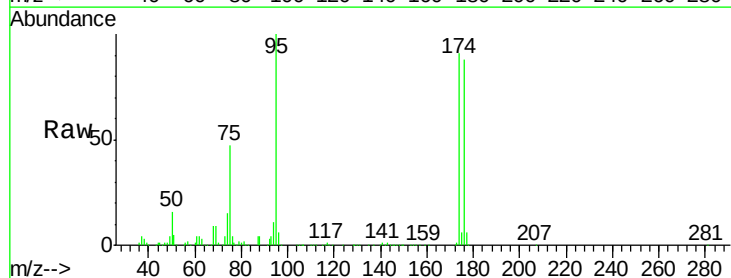
Acq: 22 Jan 2019 14:16

Tgt Ion: 75 Resp: 252945

Ion Ratio Lower Upper

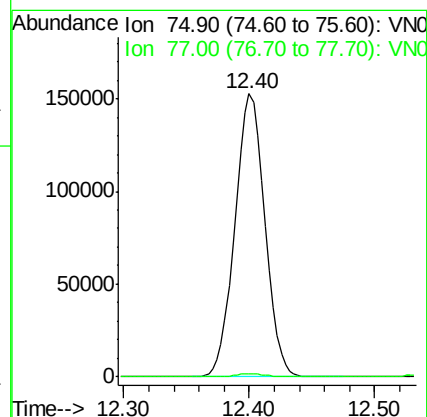
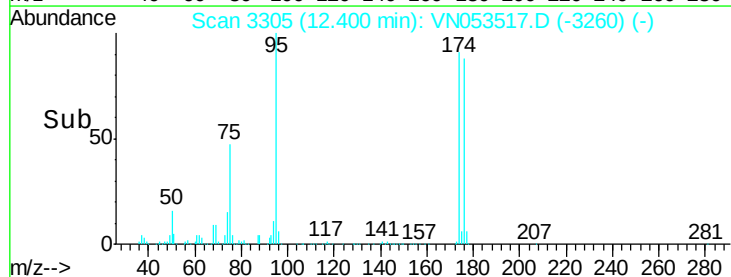
75 100

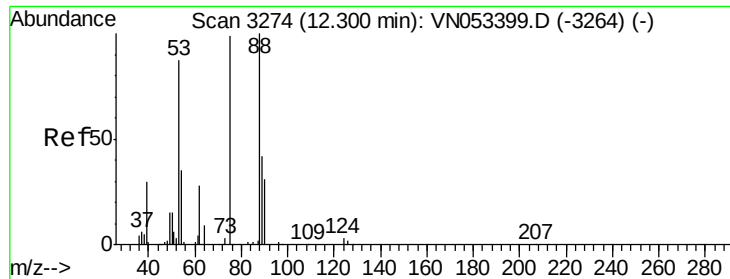
77 1.1 0.0 0.0#



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: 89.730 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampleId :

SA-TW524-3337

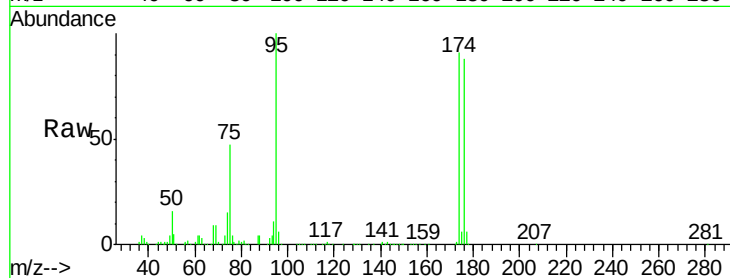
Tot Ion: 75 Resp: 252945

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

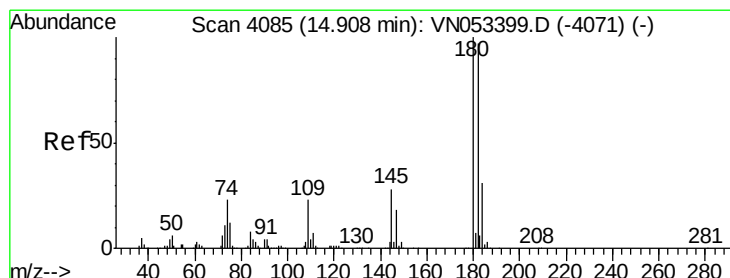
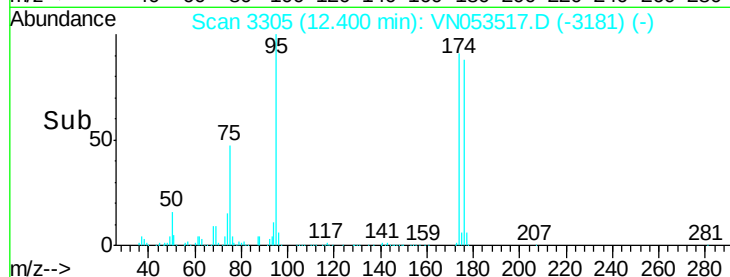
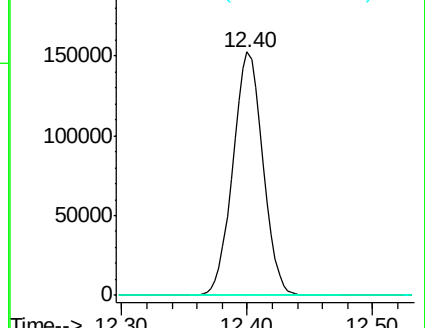
89 0.0 35.6 53.4#



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: 3.430 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

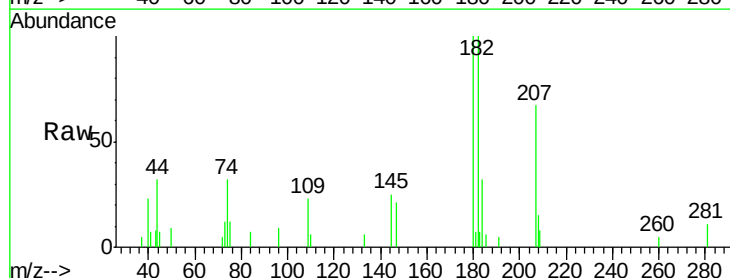
Tgt Ion: 180 Resp: 5120

Ion Ratio Lower Upper

180 100

182 92.2 48.1 144.3

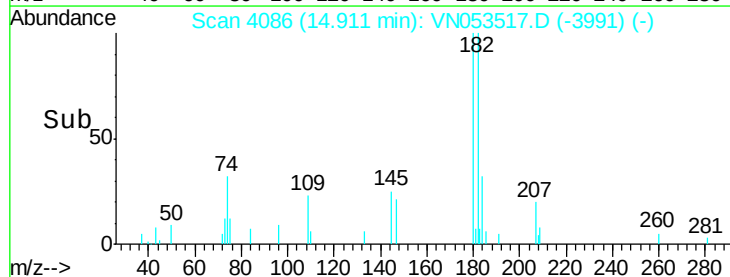
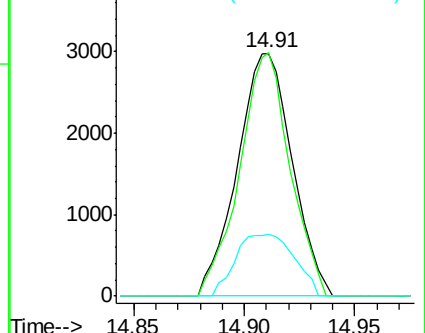
145 27.2 13.9 41.6

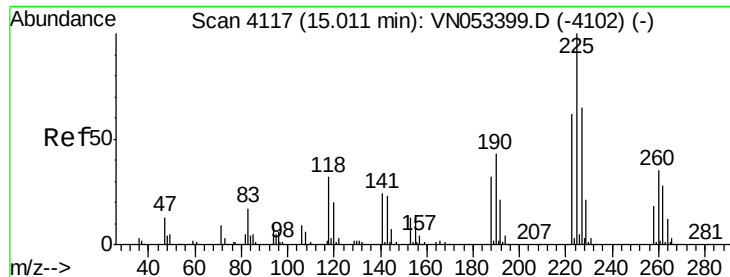


Abundance Ion 179.80 (179.50 to 180.50): VN053399.D (-4071) (-)

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: 0.305 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

Instrument :

MSVOA_N

ClientSampled :

SA-TW524-3337

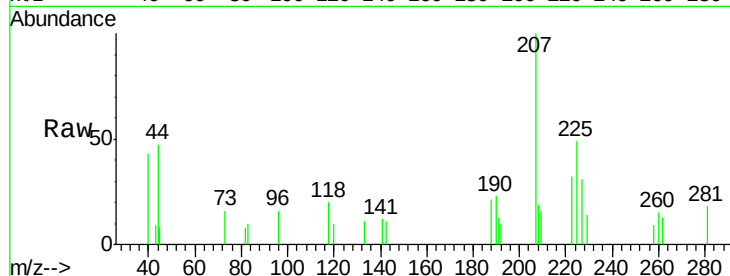
Tot Ion:225 Resp: 1572

Ion Ratio Lower Upper

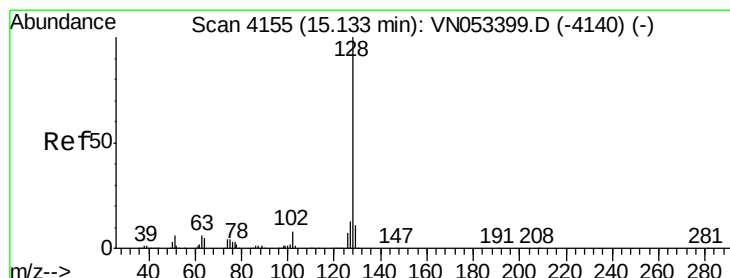
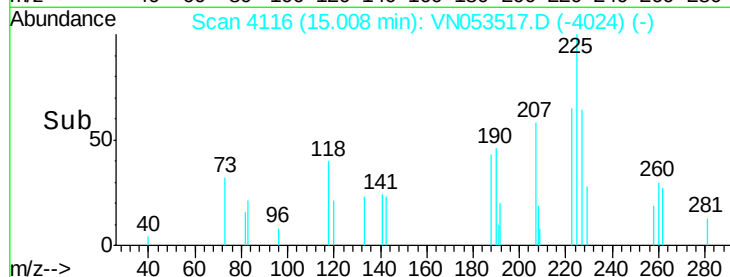
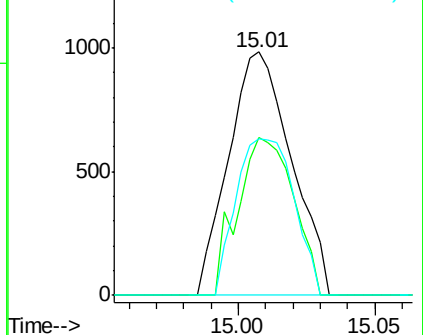
225 100

223 57.7 31.1 93.2

227 59.5 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: 4.750 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053517.D

Acq: 22 Jan 2019 14:16

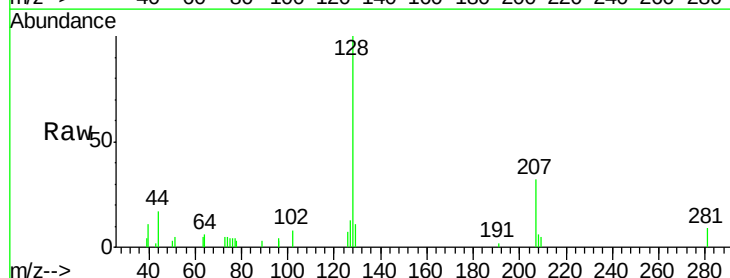
Tgt Ion:128 Resp: 11260

Ion Ratio Lower Upper

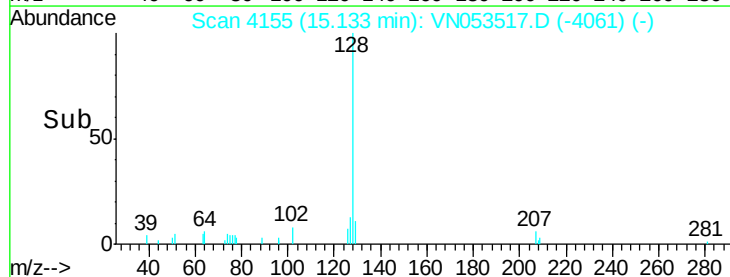
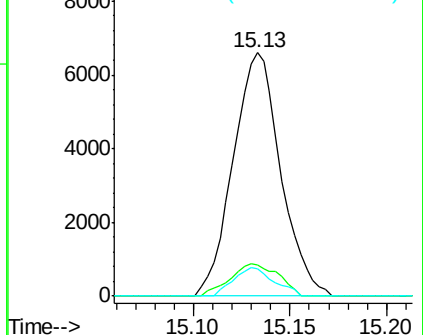
128 100

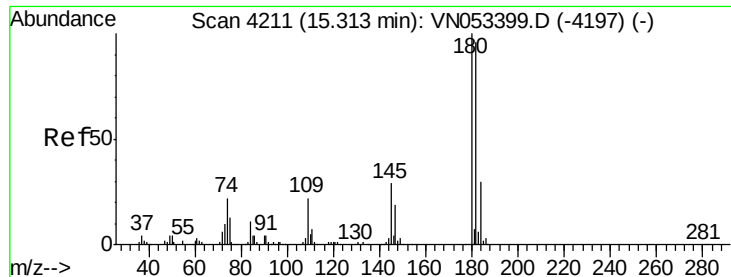
127 13.5 10.3 15.5

129 9.9 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

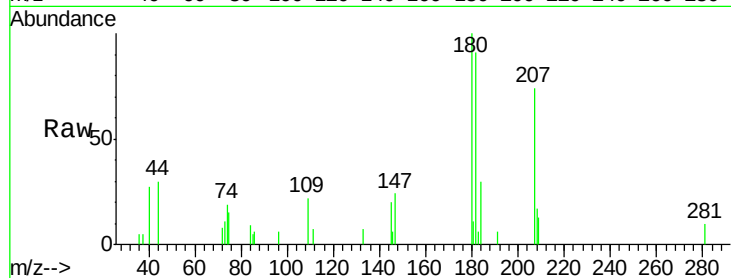




#96
 1,2,3-Trichlorobenzene
 Concen: 4.838 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN053517.D
 Acq: 22 Jan 2019 14:16

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW524-3337

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.2	47.9	143.8
145	28.6	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

