

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054402.D
 Acq On : 18 Mar 2019 19:00
 Operator : JC/SP
 Sample : K1972-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-031519

Quant Time: Mar 19 05:14:57 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	7.66	168	1840811	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2672280	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2217368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	772722	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	885949	45.32	ug/l	0.00
Spiked Amount			Recovery	=	90.64%	
35) Dibromofluoromethane	7.59	113	823450	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	10.09	98	3053103	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	12.40	95	886166	39.79	ug/l	0.00
Spiked Amount			Recovery	=	79.58%	

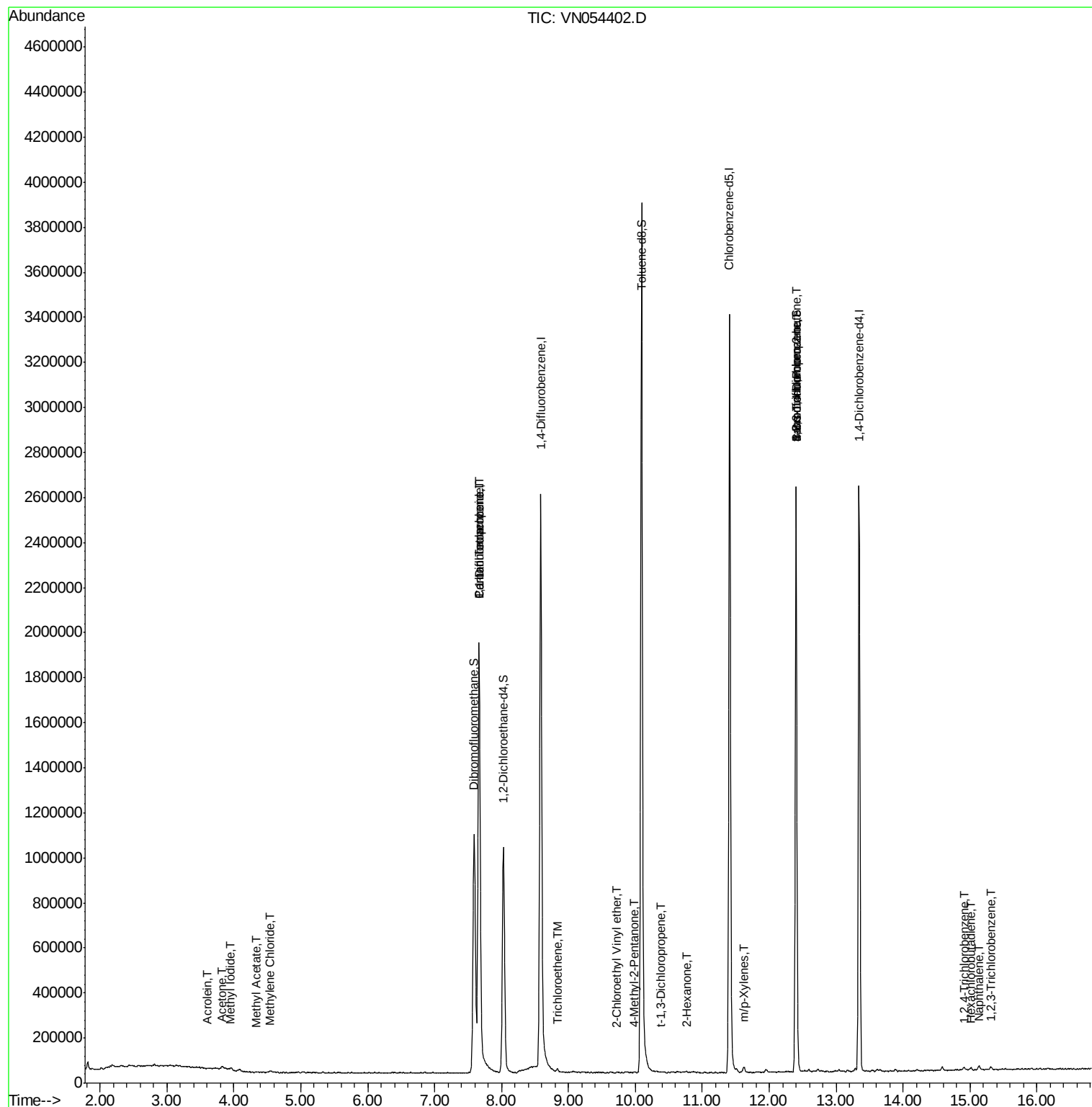
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.93	142	645	1.520	ug/l #	20
13) Acrolein	3.59	56	549	0.432	ug/l #	14
16) Acetone	3.82	43	11321	2.023	ug/l	95
18) Methyl Acetate	4.34	43	2302	0.203	ug/l	99
20) Methylene Chloride	4.55	84	4627	0.252	ug/l	85
31) Cyclohexane	7.67	56	30249	Below Cal	#	4
36) 1,1-Dichloropropene	7.66	75	110730	4.499	ug/l #	48
38) Carbon Tetrachloride	7.66	117	150597	5.835	ug/l #	16
44) Trichloroethene	8.83	130	4561	0.208	ug/l	92
51) 4-Methyl-2-Pentanone	9.99	43	3649	0.278	ug/l	94
53) t-1,3-Dichloropropene	10.38	75	288	1.996	ug/l #	87
58) 2-Chloroethyl Vinyl ether	9.71	63	73	16.836	ug/l #	44
59) 2-Hexanone	10.75	43	4336	0.496	ug/l	85
68) m/p-Xylenes	11.62	106	9415	0.298	ug/l	91
71) Bromoform	12.40	173	5537	2.742	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	421654	37.107	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	421654	126.848	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	4919	2.804	ug/l	95
94) Hexachlorobutadiene	15.00	225	2074	0.202	ug/l	79
95) Naphthalene	15.14	128	17072	3.938	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	6059	0.423	ug/l	95

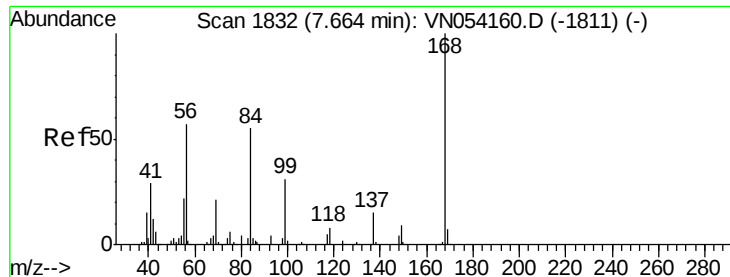
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

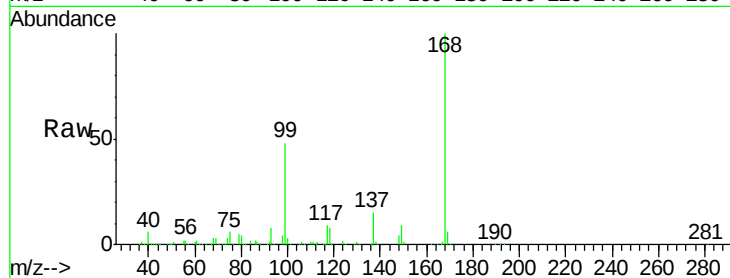
TW-10-031519

Tot Ion:168 Resp: 1840811

Ion Ratio Lower Upper

168 100

99 47.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

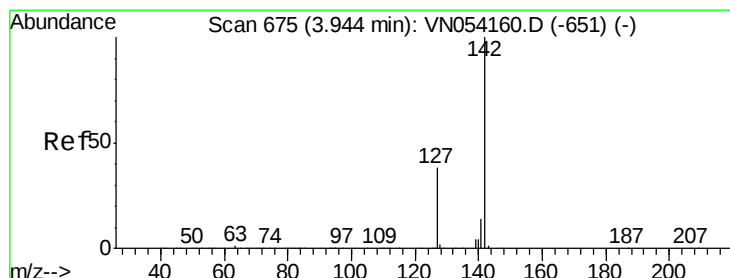
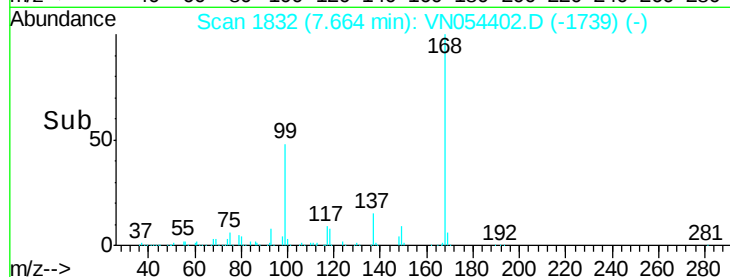
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.520 ug/l

RT: 3.93 min Scan# 672

Delta R.T. -0.01 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

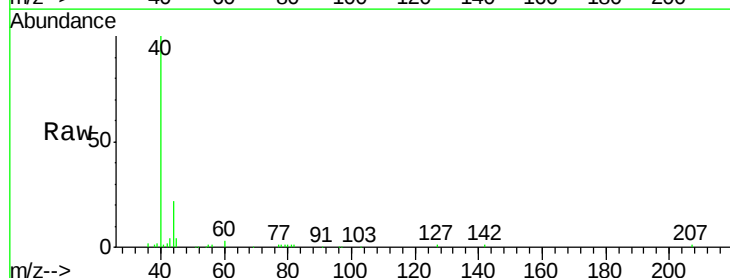
Tgt Ion:142 Resp: 645

Ion Ratio Lower Upper

142 100

127 96.6 30.3 45.5#

141 0.0 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

3.93

600

500

400

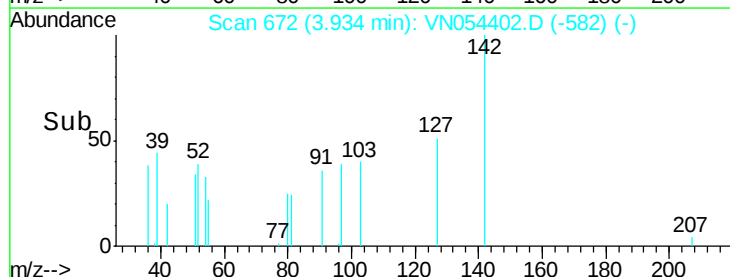
300

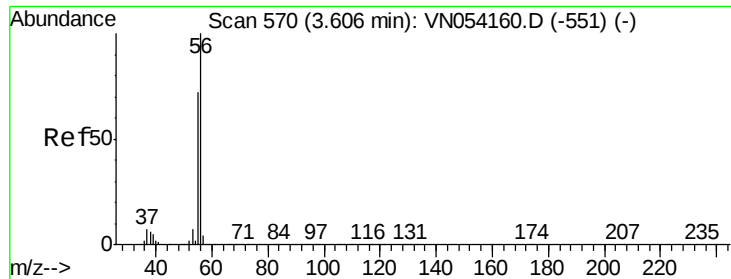
200

100

0

Time-->

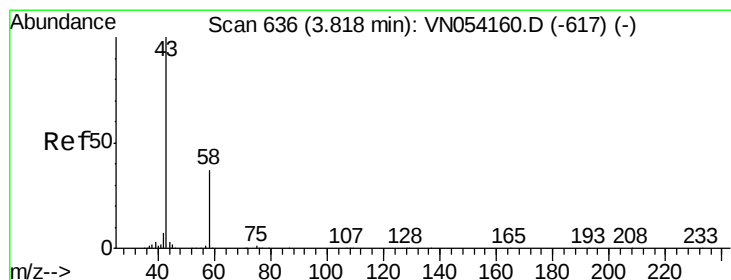
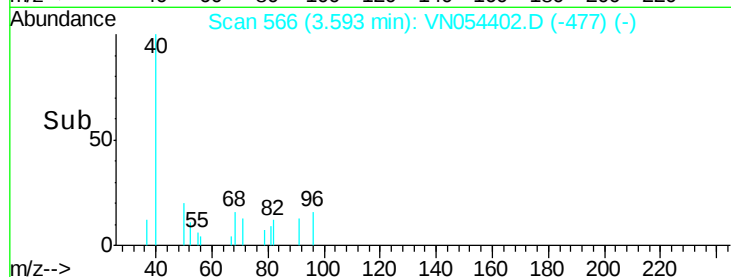
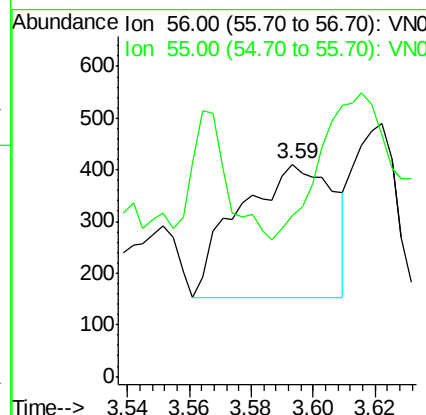
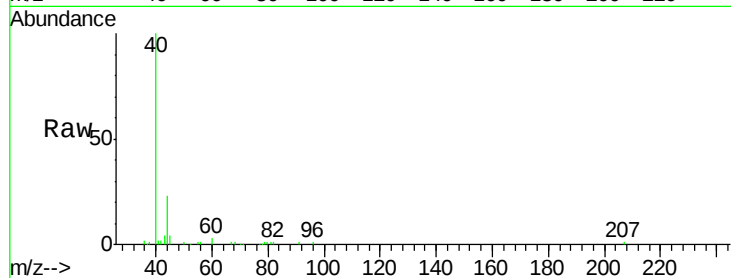




#13
Acrolein
Concen: 0.432 ug/l
RT: 3.59 min Scan# 566
Delta R.T. -0.01 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

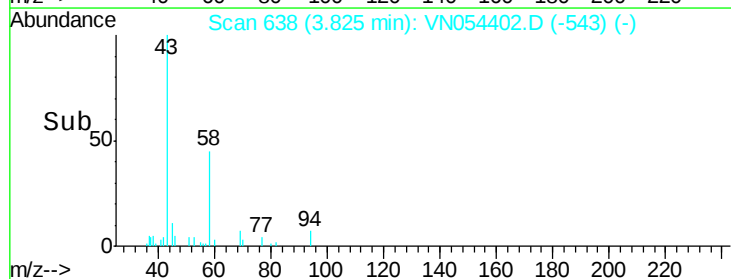
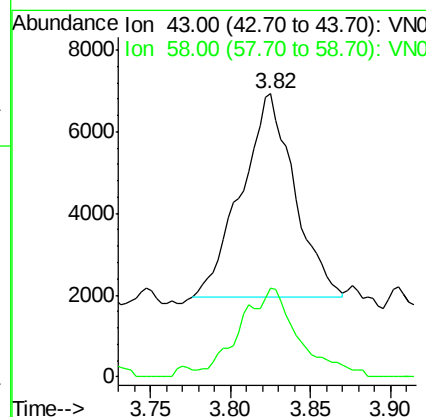
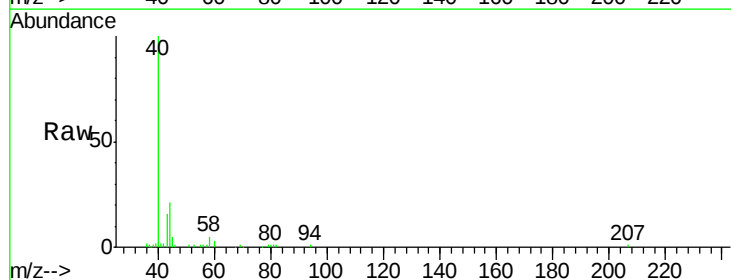
Instrument :
MSVOA_N
ClientSampleId :
TW-10-031519

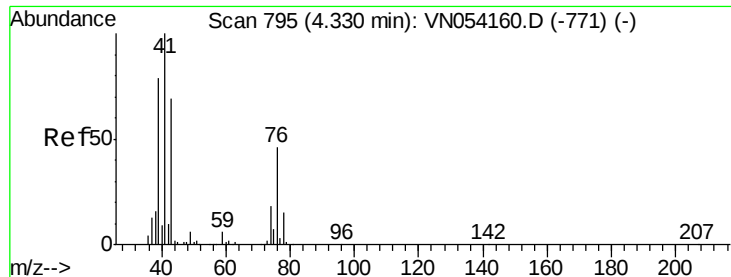
Tot Ion: 56 Resp: 549
Ion Ratio Lower Upper
56 100
55 0.0 56.7 85.1#



#16
Acetone
Concen: 2.023 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

Tgt Ion: 43 Resp: 11321
Ion Ratio Lower Upper
43 100
58 40.2 29.9 44.9

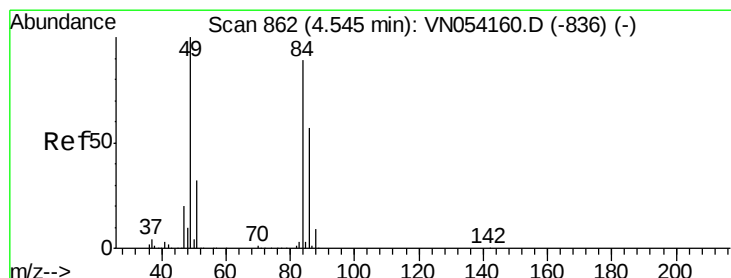
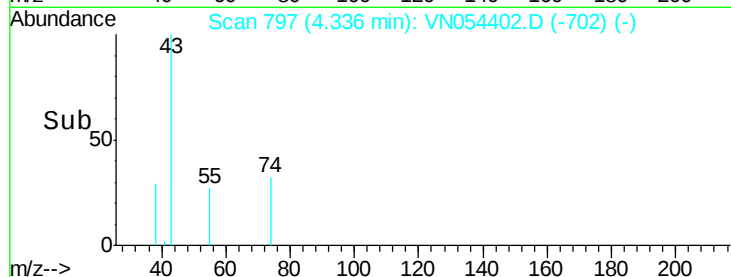
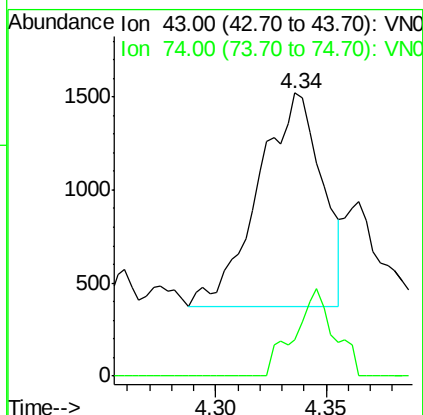
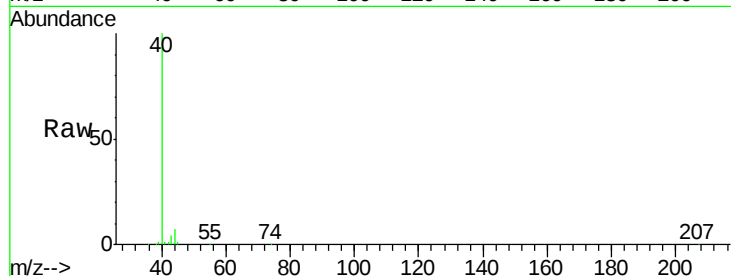




#18
Methyl Acetate
Concen: 0.203 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

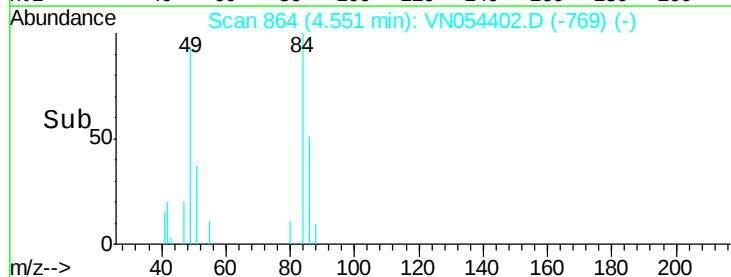
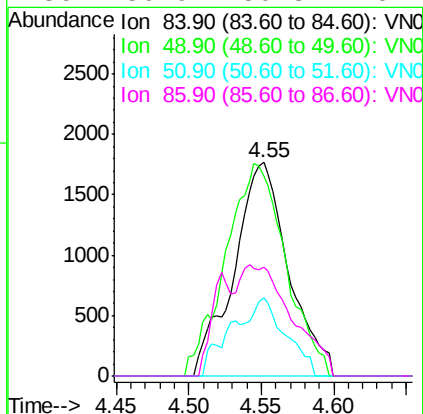
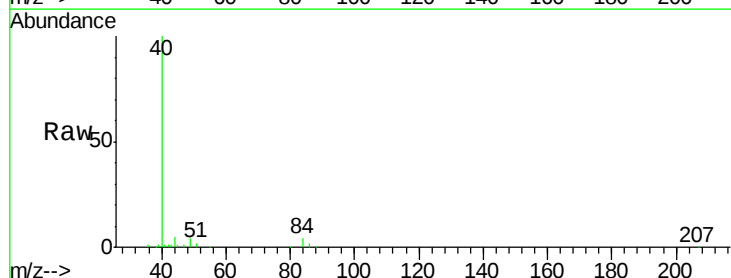
Instrument :
MSVOA_N
ClientSampleId :
TW-10-031519

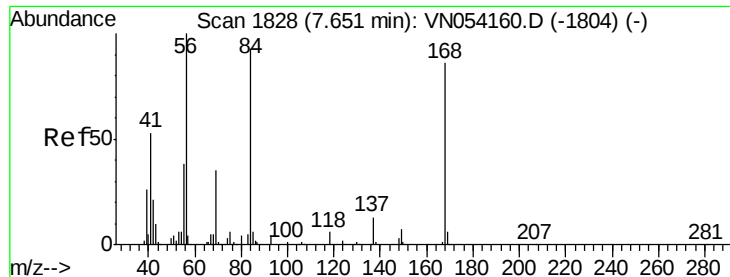
Tot Ion: 43 Resp: 2302
Ion Ratio Lower Upper
43 100
74 25.3 20.8 31.2



#20
Methylene Chloride
Concen: 0.252 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

Tgt Ion: 84 Resp: 4627
Ion Ratio Lower Upper
84 100
49 93.3 89.7 134.5
51 36.8 28.2 42.4
86 50.9 50.8 76.2

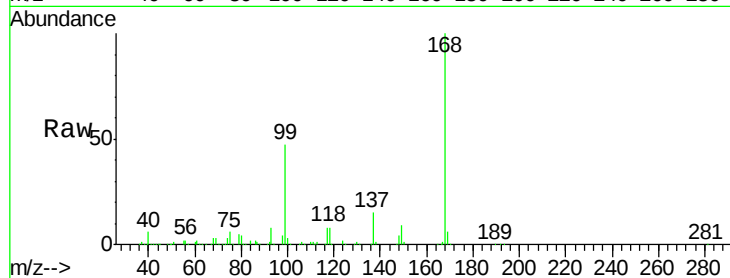




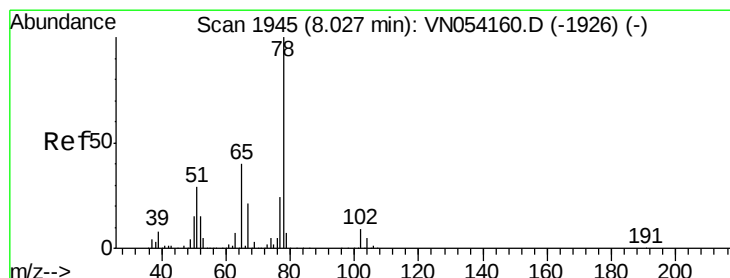
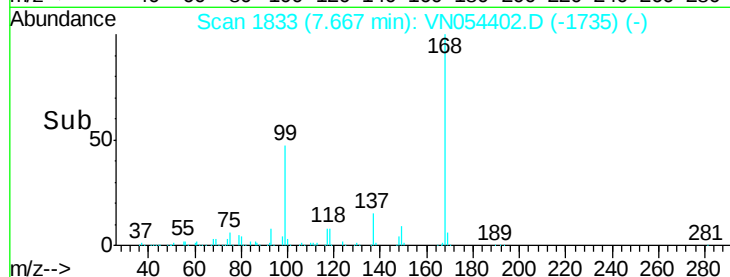
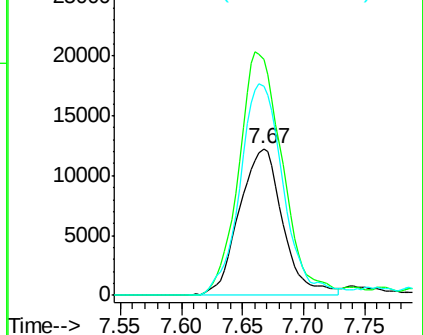
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

Instrument :
MSVOA_N
ClientSampleId :
TW-10-031519

Tot Ion: 56 Resp: 30249
Ion Ratio Lower Upper
56 100
69 160.3 27.8 41.6#
84 142.3 74.6 111.8#

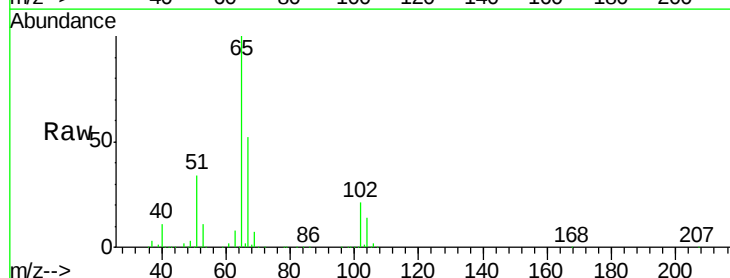


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

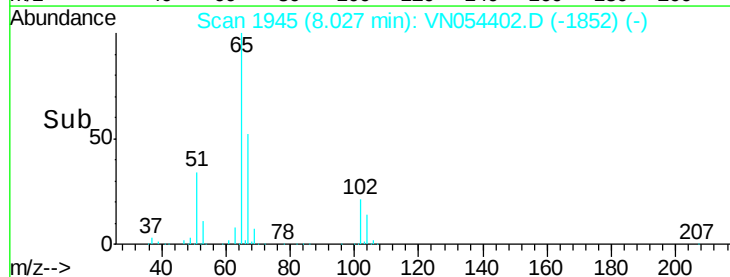
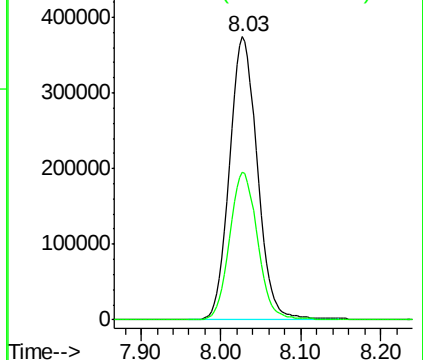


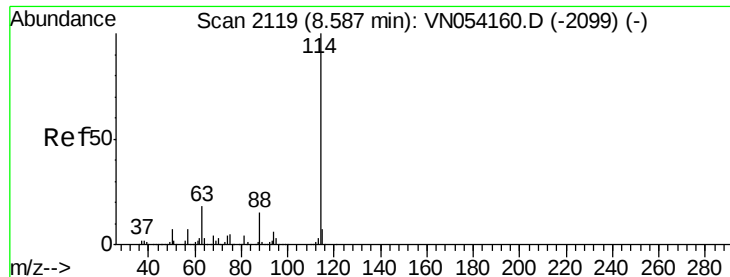
#33
1,2-Dichloroethane-d4
Concen: 45.318 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

Tgt Ion: 65 Resp: 885949
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

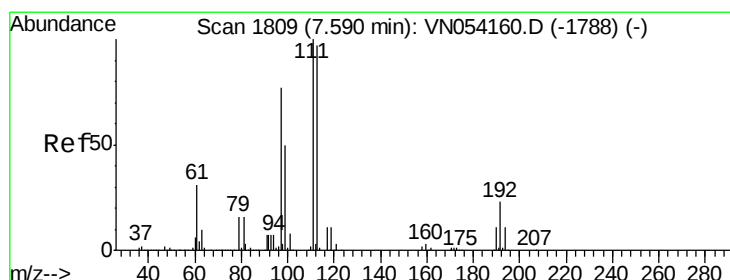
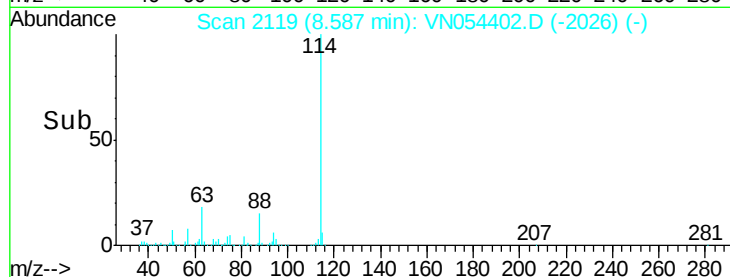
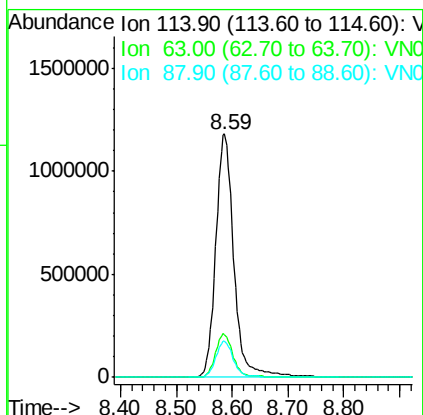
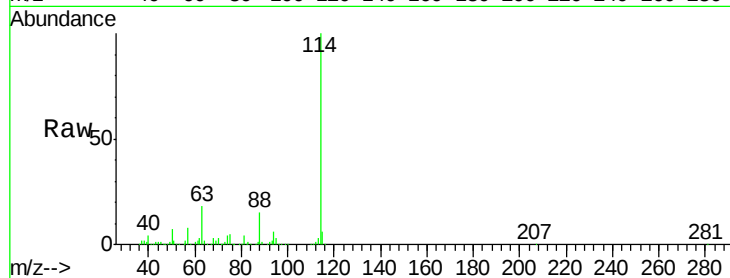




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054402.D
 Acq: 18 Mar 2019 19:00

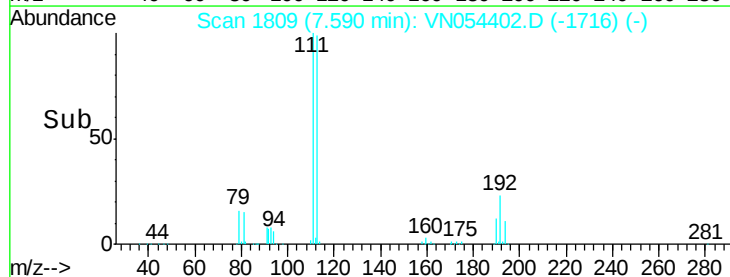
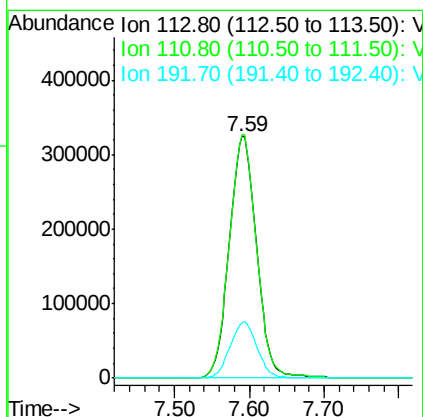
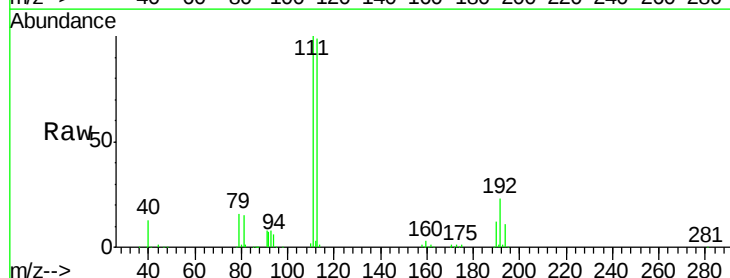
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 ClientSampleId :
 TW-10-031519

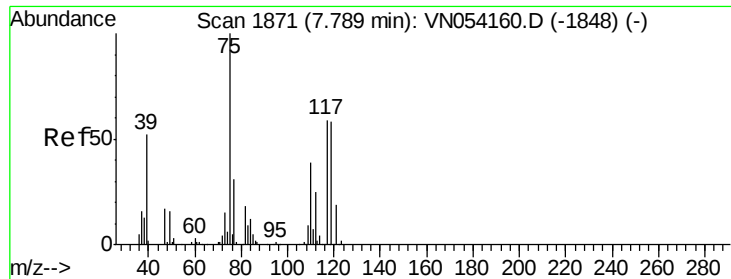
Tot Ion:114 Resp: 2672280
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 35.2
 88 14.7 0.0 30.2



#35
 Dibromofluoromethane
 Concen: 47.777 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054402.D
 Acq: 18 Mar 2019 19:00

Tgt Ion:113 Resp: 823450
 Ion Ratio Lower Upper
 113 100
 111 100.5 82.2 123.4
 192 23.3 19.2 28.8





#36

1,1-Dichloropropene

Concen: 4.499 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

TW-10-031519

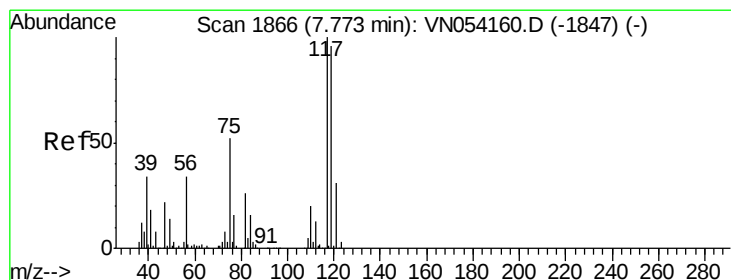
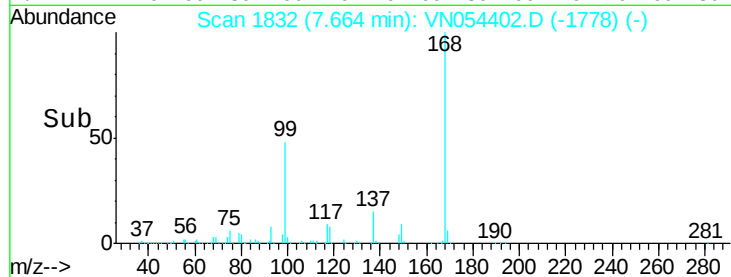
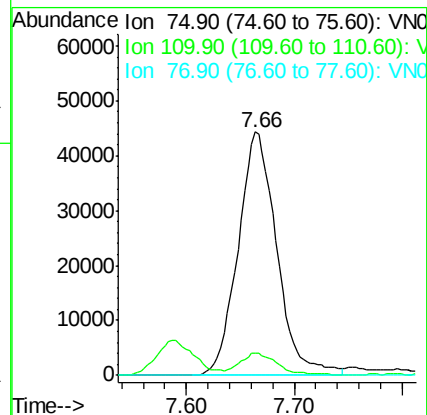
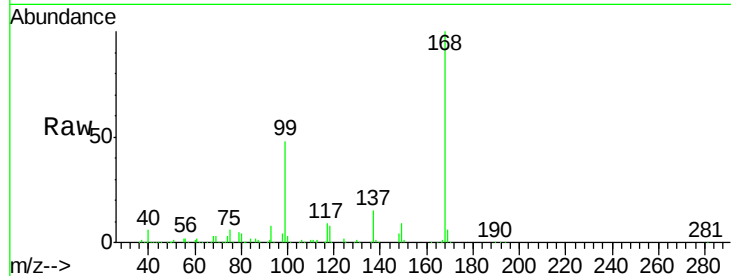
Tot Ion: 75 Resp: 110730

Ion Ratio Lower Upper

75 100

110 9.0 19.1 57.5#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.835 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

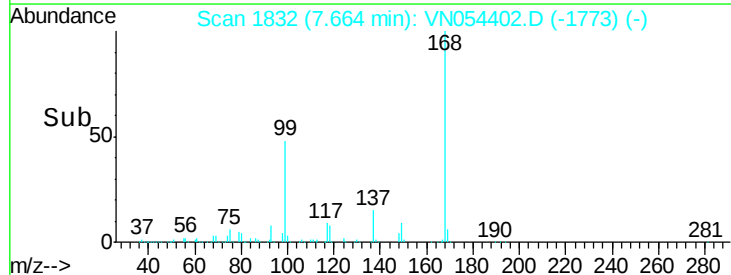
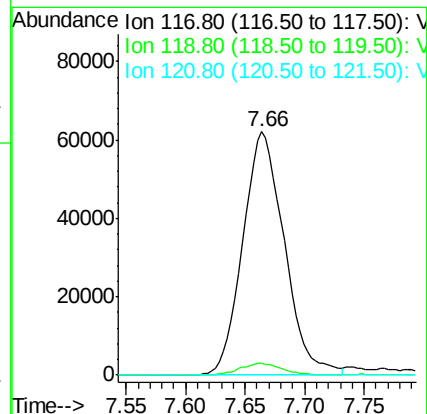
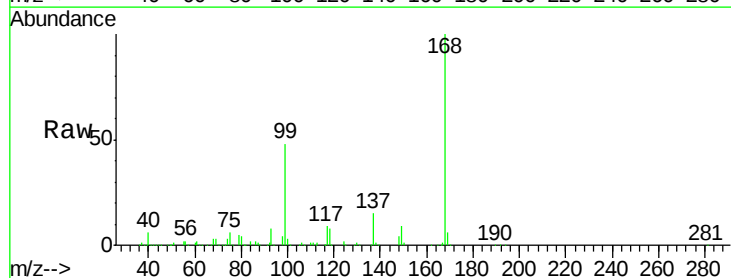
Tgt Ion: 117 Resp: 150597

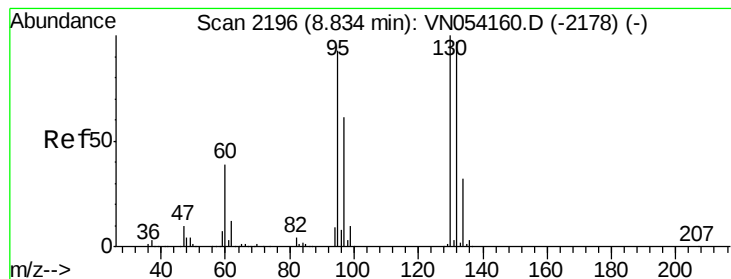
Ion Ratio Lower Upper

117 100

119 4.9 76.3 114.5#

121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 0.208 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

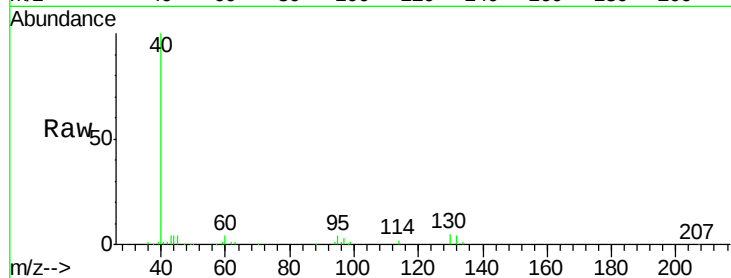
TW-10-031519

Tot Ion:130 Resp: 4561

Ion Ratio Lower Upper

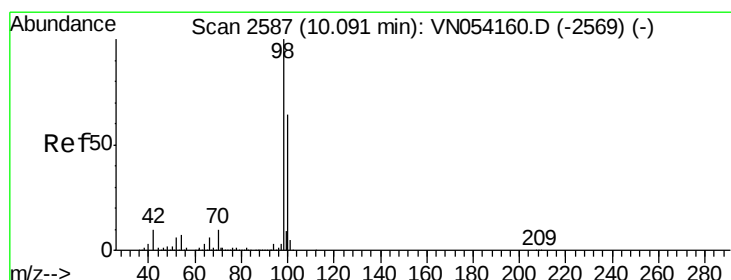
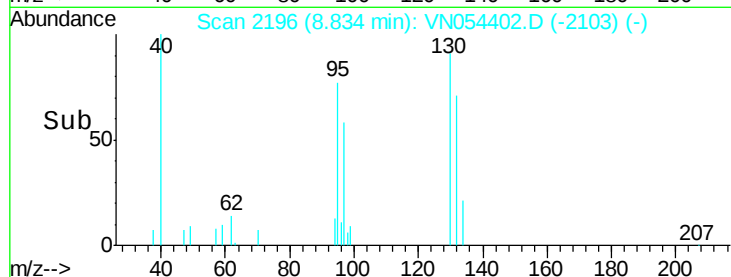
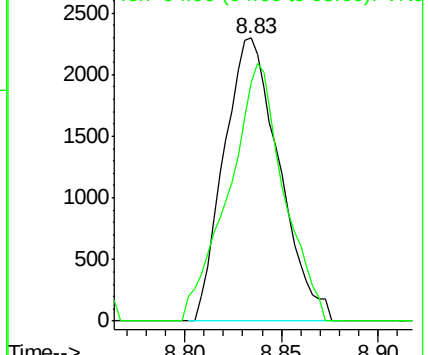
130 100

95 84.5 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054402.D (-2178) (-)

Ion 94.90 (94.60 to 95.60): VN054402.D (-2178) (-)



#50

Toluene-d8

Concen: 47.966 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054402.D

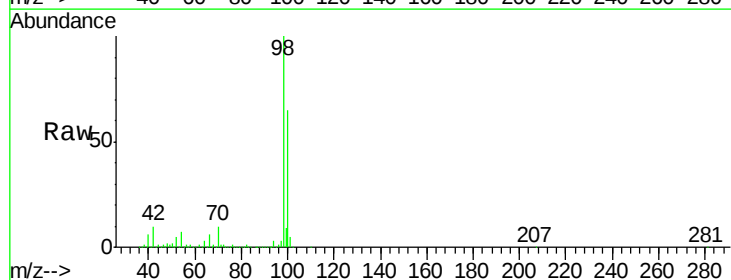
Acq: 18 Mar 2019 19:00

Tgt Ion: 98 Resp: 3053103

Ion Ratio Lower Upper

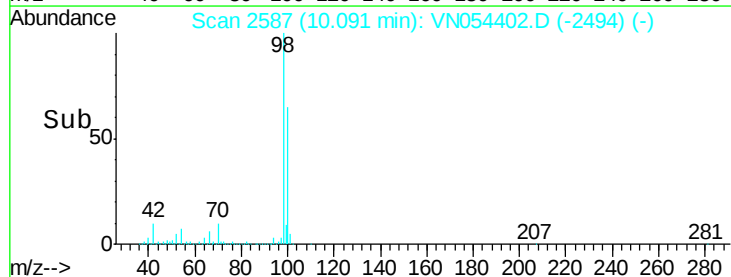
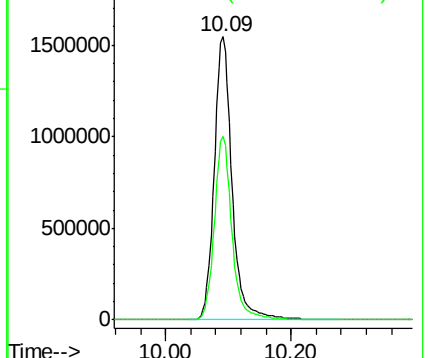
98 100

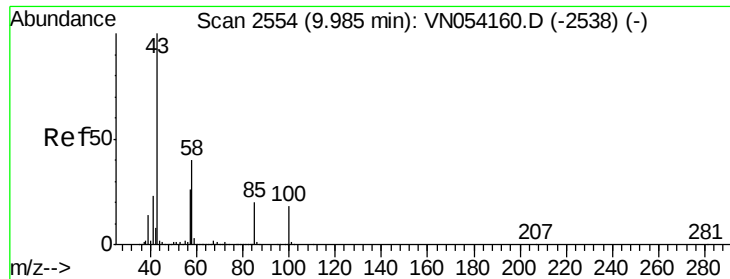
100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054402.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054402.D (-2569) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.278 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

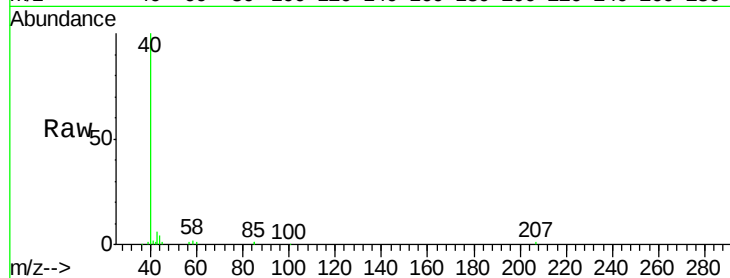
TW-10-031519

Tot Ion: 43 Resp: 3649

Ion Ratio Lower Upper

43 100

58 35.8 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

2500

2000

1500

1000

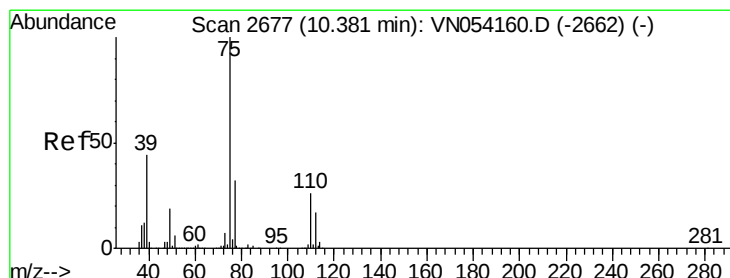
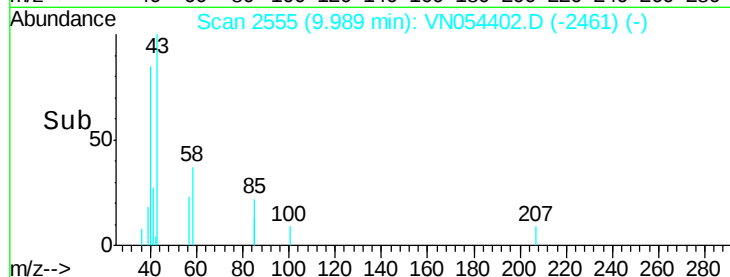
500

0

Time-->

9.95

10.00



#53

t-1,3-Dichloropropene

Concen: 1.996 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN054402.D

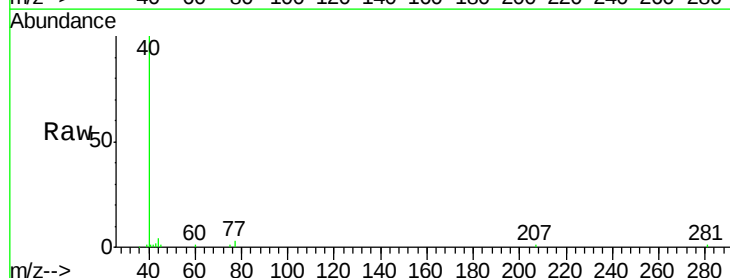
Acq: 18 Mar 2019 19:00

Tgt Ion: 75 Resp: 288

Ion Ratio Lower Upper

75 100

77 39.6 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

1000

500

0

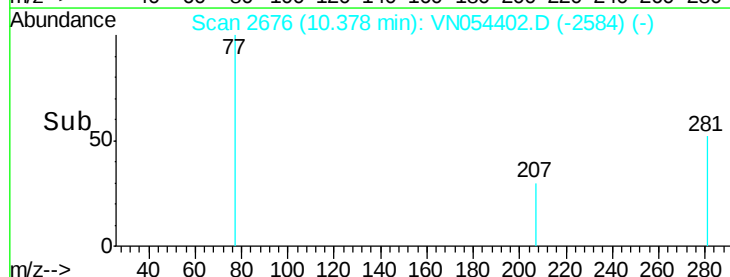
Time-->

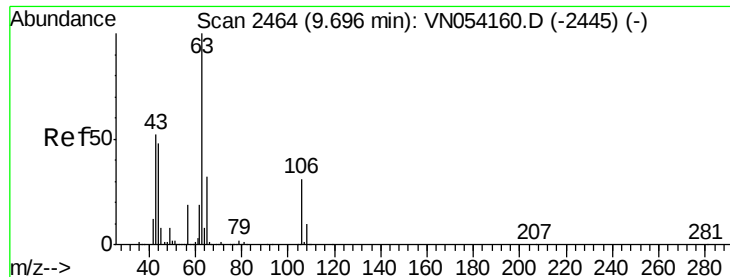
10.36

10.37

10.38

10.39

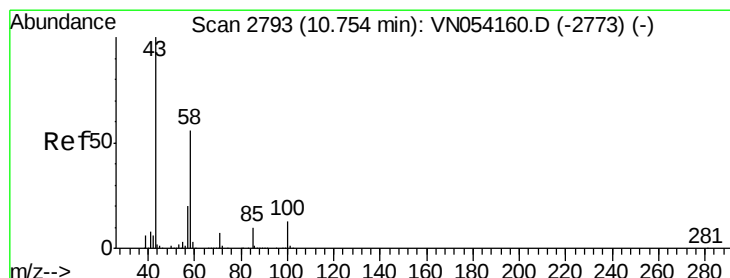
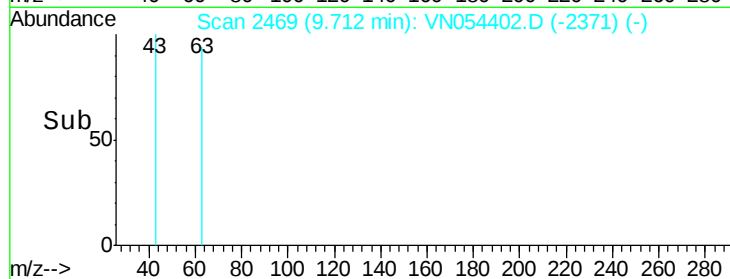
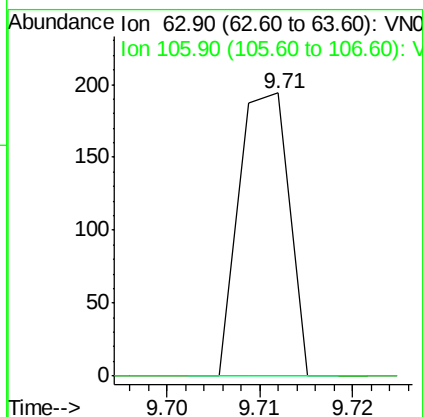
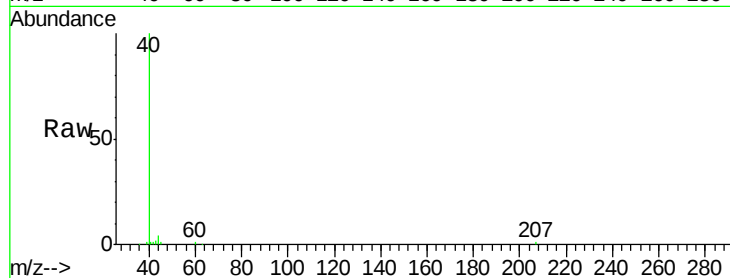




#58
 2-Chloroethyl Vinyl ether
 Concen: 16.836 ug/l
 RT: 9.71 min Scan# 2469
 Delta R.T. 0.02 min
 Lab File: VN054402.D
 Acq: 18 Mar 2019 19:00

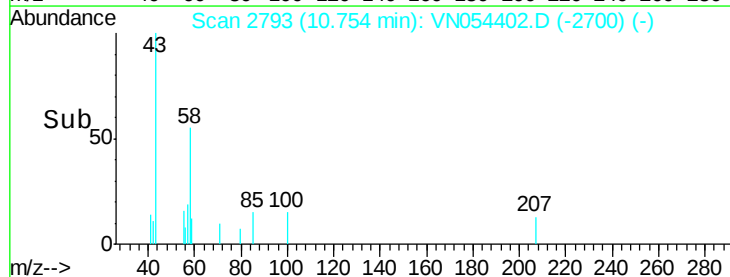
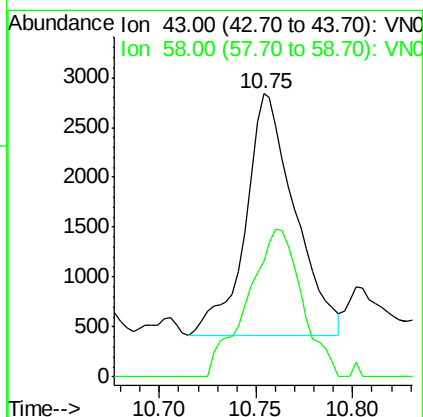
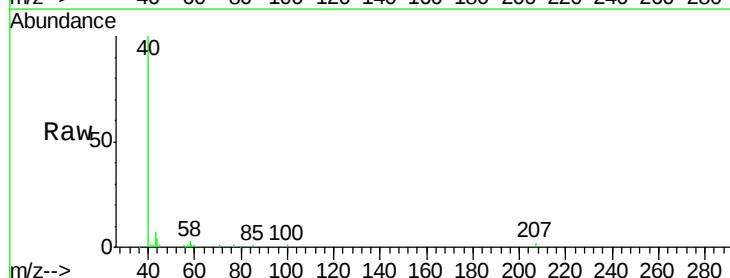
Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-031519

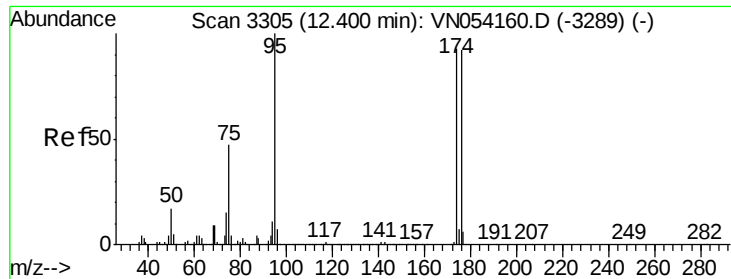
Tot Ion: 63 Resp: 73
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.4 36.6#



#59
 2-Hexanone
 Concen: 0.496 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VN054402.D
 Acq: 18 Mar 2019 19:00

Tgt Ion: 43 Resp: 4336
 Ion Ratio Lower Upper
 43 100
 58 67.0 28.0 83.9





#62

4-Bromofluorobenzene

Concen: 39.789 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

TW-10-031519

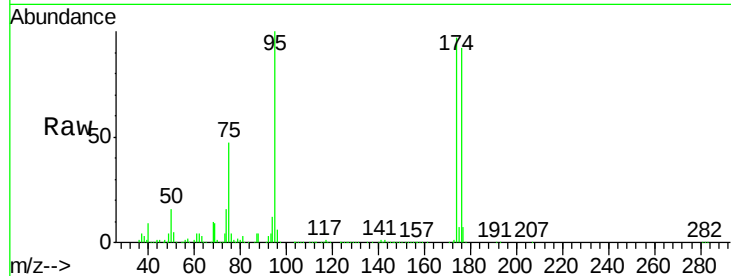
Tot Ion: 95 Resp: 886166

Ion Ratio Lower Upper

95 100

174 98.1 0.0 191.0

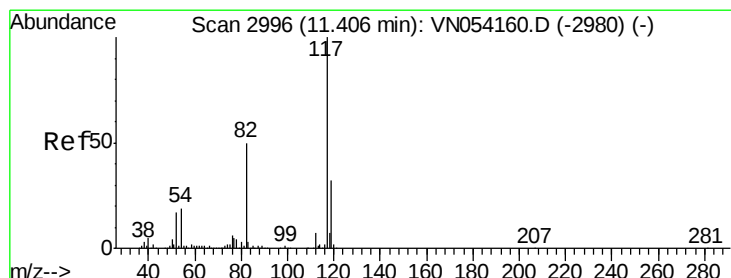
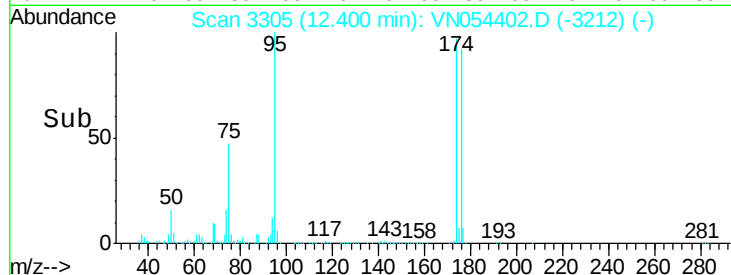
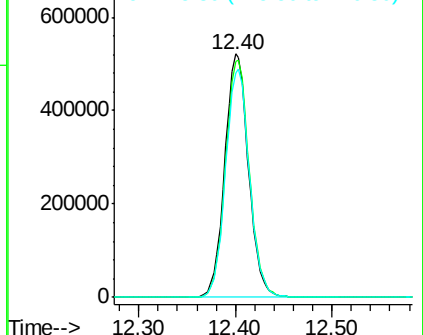
176 94.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

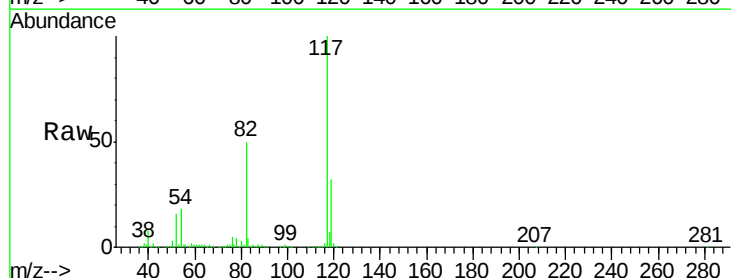
Tgt Ion: 117 Resp: 2217368

Ion Ratio Lower Upper

117 100

82 50.3 40.0 60.0

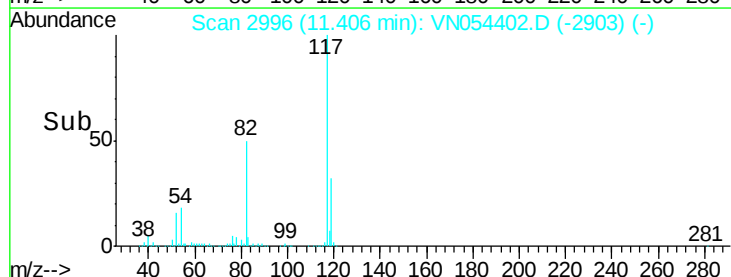
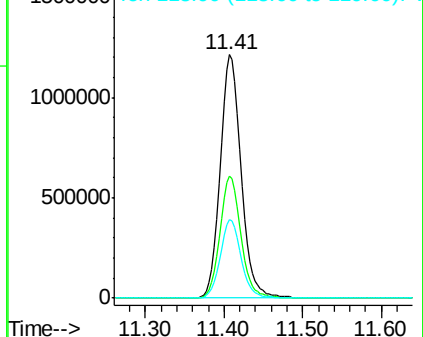
119 32.3 25.8 38.6

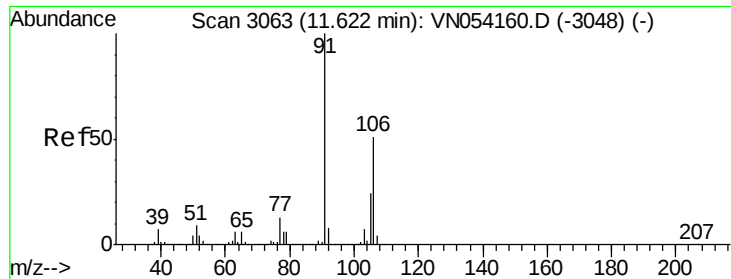


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

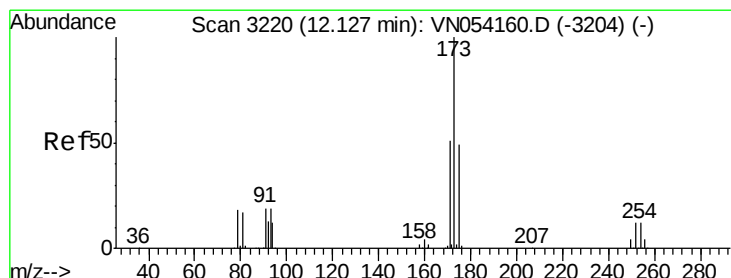
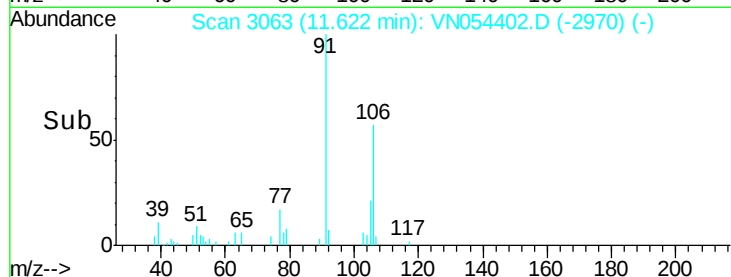
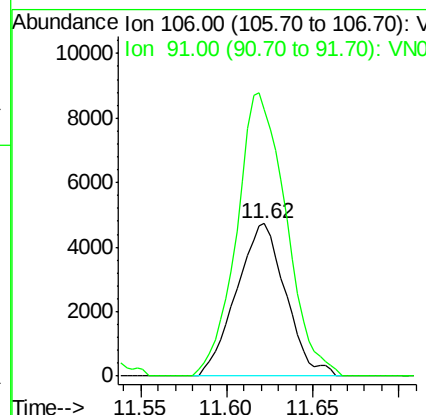
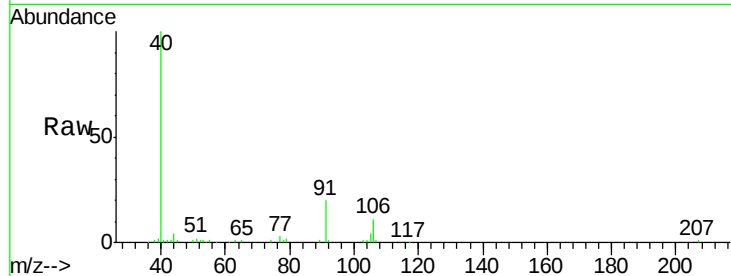




#68
m/p-Xvlenes
Concen: 0.298 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

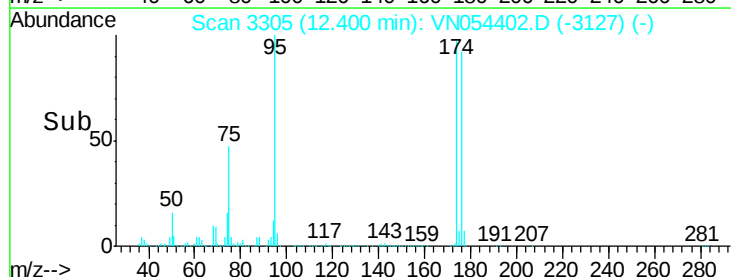
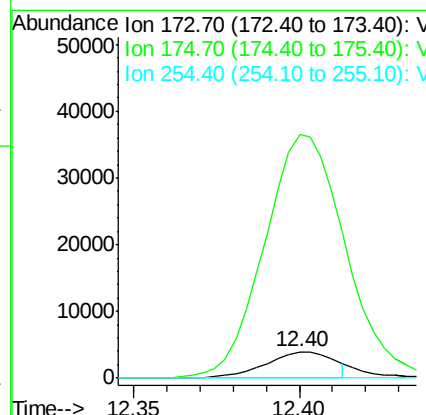
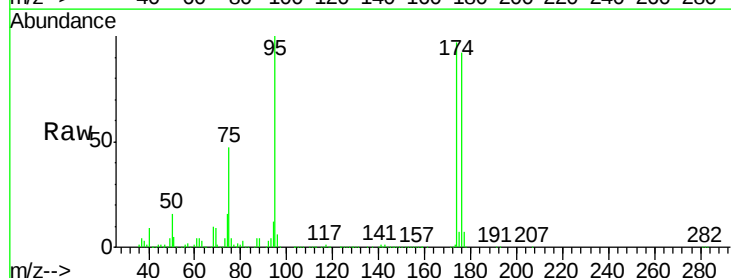
Instrument :
MSVOA_N
ClientSampleId :
TW-10-031519

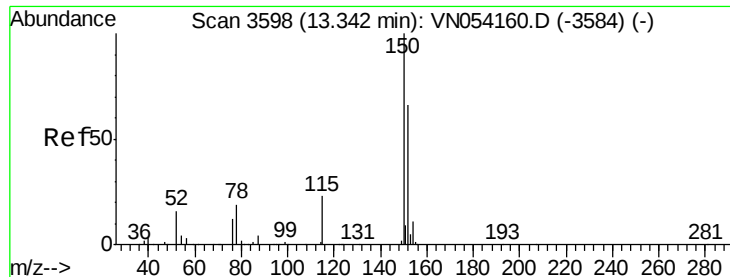
Tot Ion:106 Resp: 9415
Ion Ratio Lower Upper
106 100
91 185.9 159.4 239.2



#71
Bromoform
Concen: 2.742 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054402.D
Acq: 18 Mar 2019 19:00

Tgt Ion:173 Resp: 5537
Ion Ratio Lower Upper
173 100
175 969.1 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

TW-10-031519

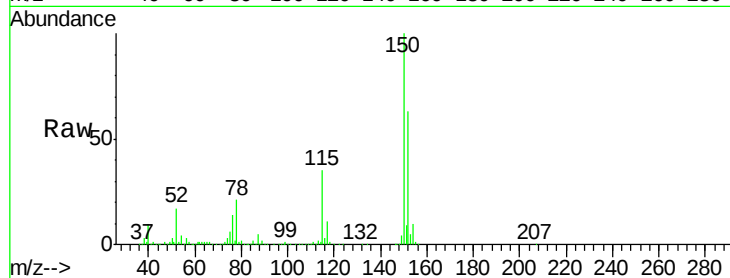
Tot Ion:152 Resp: 772722

Ion Ratio Lower Upper

152 100

115 55.1 27.2 81.6

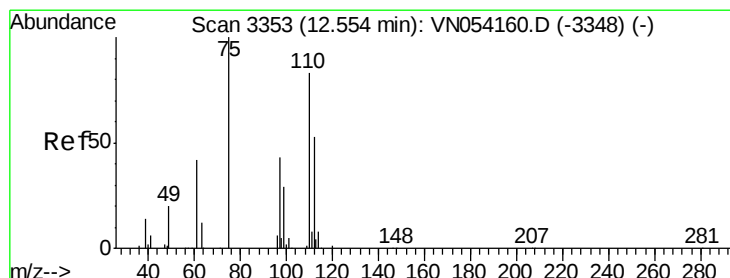
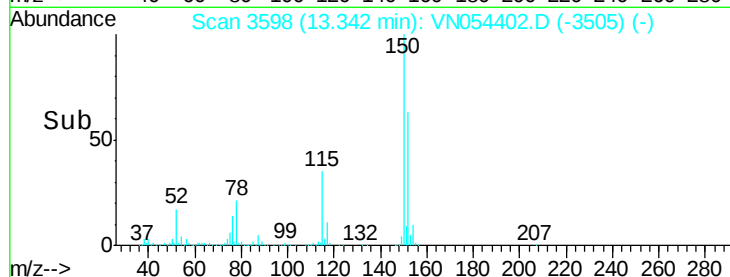
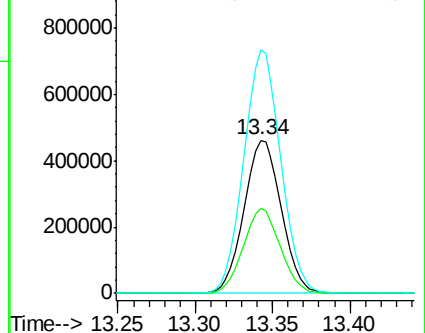
150 157.9 0.0 349.2



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: 37.107 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054402.D

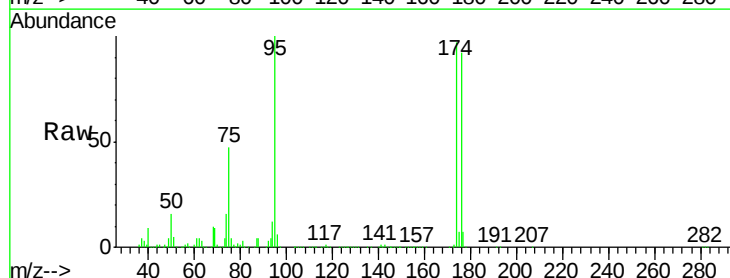
Acq: 18 Mar 2019 19:00

Tgt Ion: 75 Resp: 421654

Ion Ratio Lower Upper

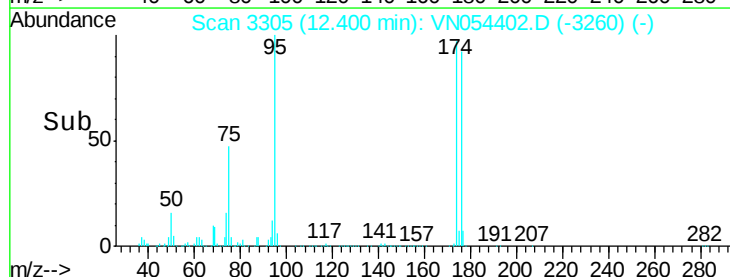
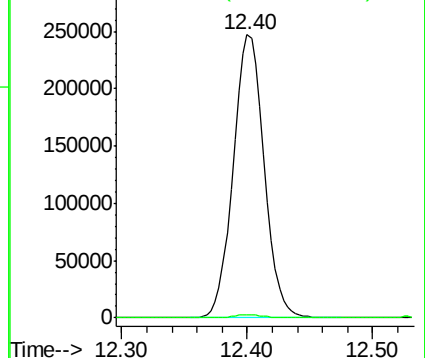
75 100

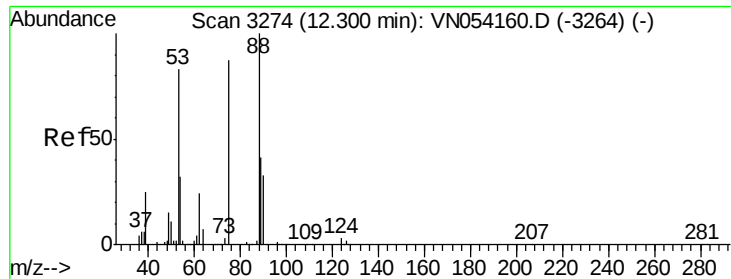
77 1.2 0.0 0.0#



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: 126.848 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

TW-10-031519

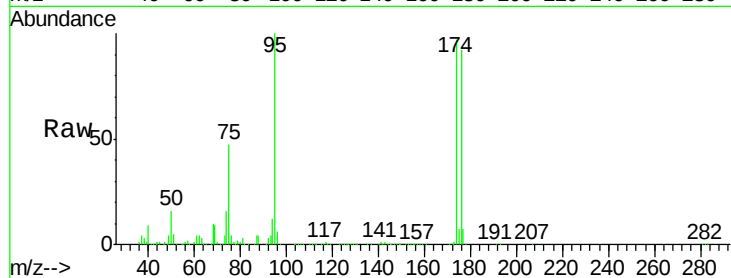
Tot Ion: 75 Resp: 421654

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

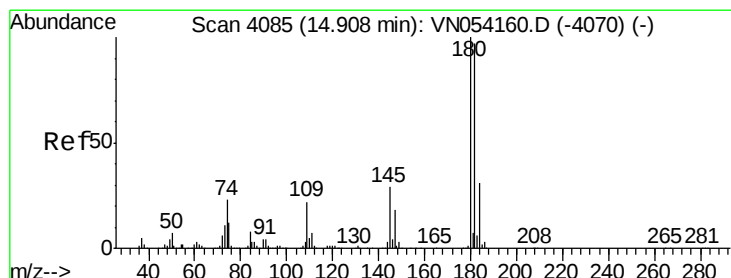
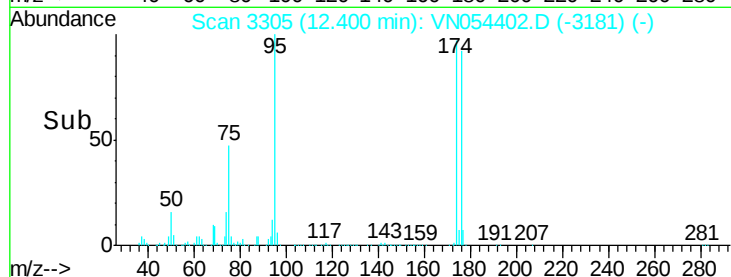
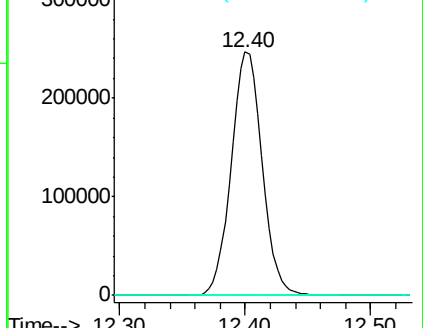
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054402.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN054402.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN054402.D (-3305) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.804 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

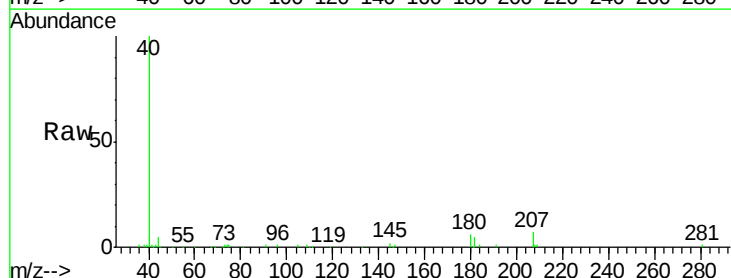
Tgt Ion: 180 Resp: 4919

Ion Ratio Lower Upper

180 100

182 91.6 48.0 144.2

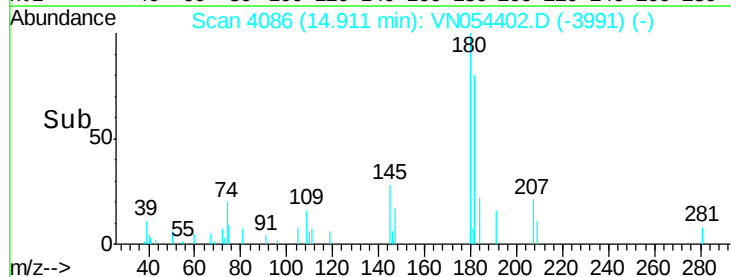
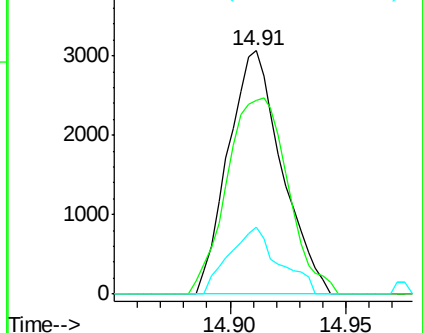
145 25.5 14.2 42.8

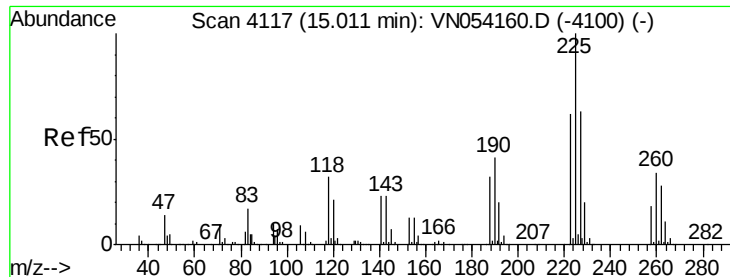


Abundance Ion 179.80 (179.50 to 180.50): VN054402.D (-4086) (-)

Ion 181.80 (181.50 to 182.50): VN054402.D (-4086) (-)

Ion 144.80 (144.50 to 145.50): VN054402.D (-4086) (-)





#94

Hexachlorobutadiene

Concen: 0.202 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

Instrument :

MSVOA_N

ClientSampleId :

TW-10-031519

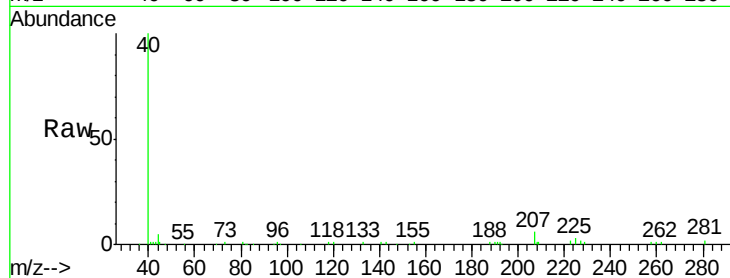
Tot Ion:225 Resp: 2074

Ion Ratio Lower Upper

225 100

223 75.0 31.1 93.5

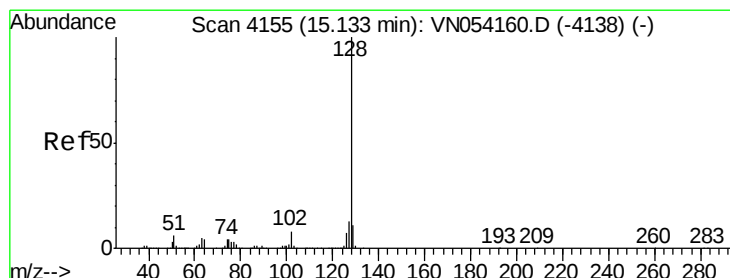
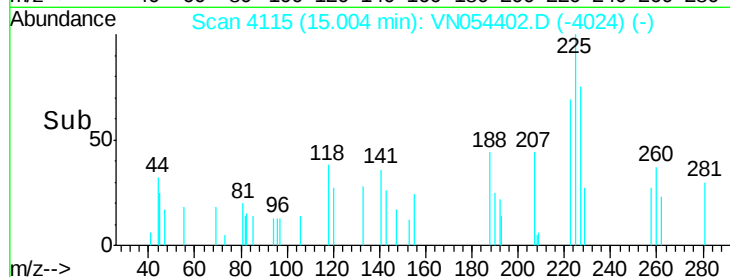
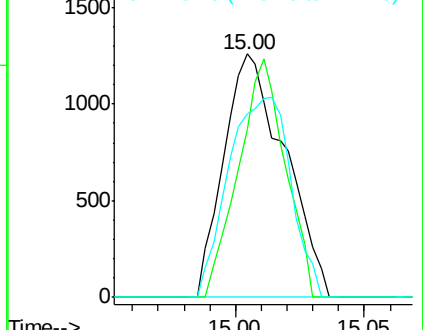
227 83.9 31.9 95.9



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: 3.938 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054402.D

Acq: 18 Mar 2019 19:00

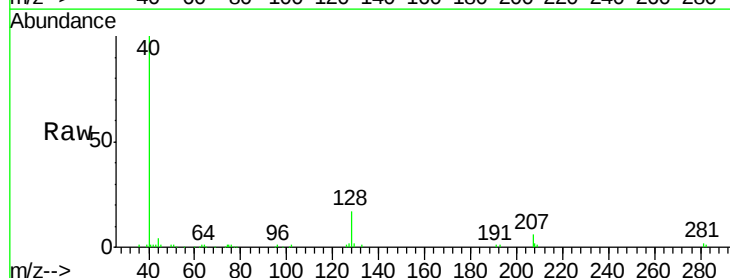
Tgt Ion:128 Resp: 17072

Ion Ratio Lower Upper

128 100

127 14.7 10.1 15.1

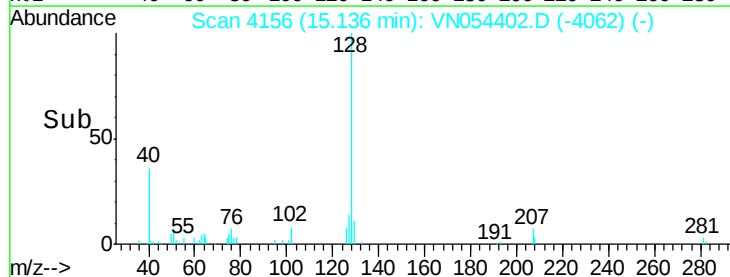
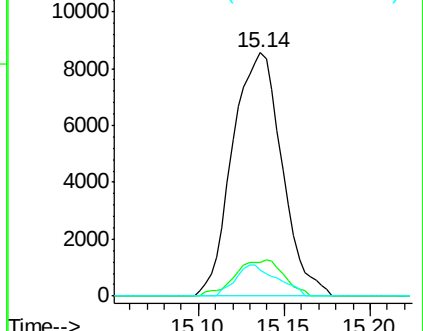
129 10.7 8.7 13.1

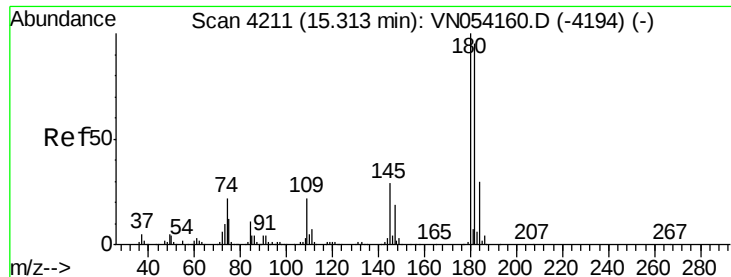


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.423 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN054402.D
 Acq: 18 Mar 2019 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-10-031519

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.3	47.5	142.6
145	31.9	14.8	44.3

