

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092519\
 Data File : VN058353.D
 Acq On : 25 Sep 2019 10:02
 Operator : JC/SP
 Sample : K5002-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 26 01:06:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	473759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	779489	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	658828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	259907	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	348028	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	7.57	113	244132	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	10.09	98	969379	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.41	95	312702	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	

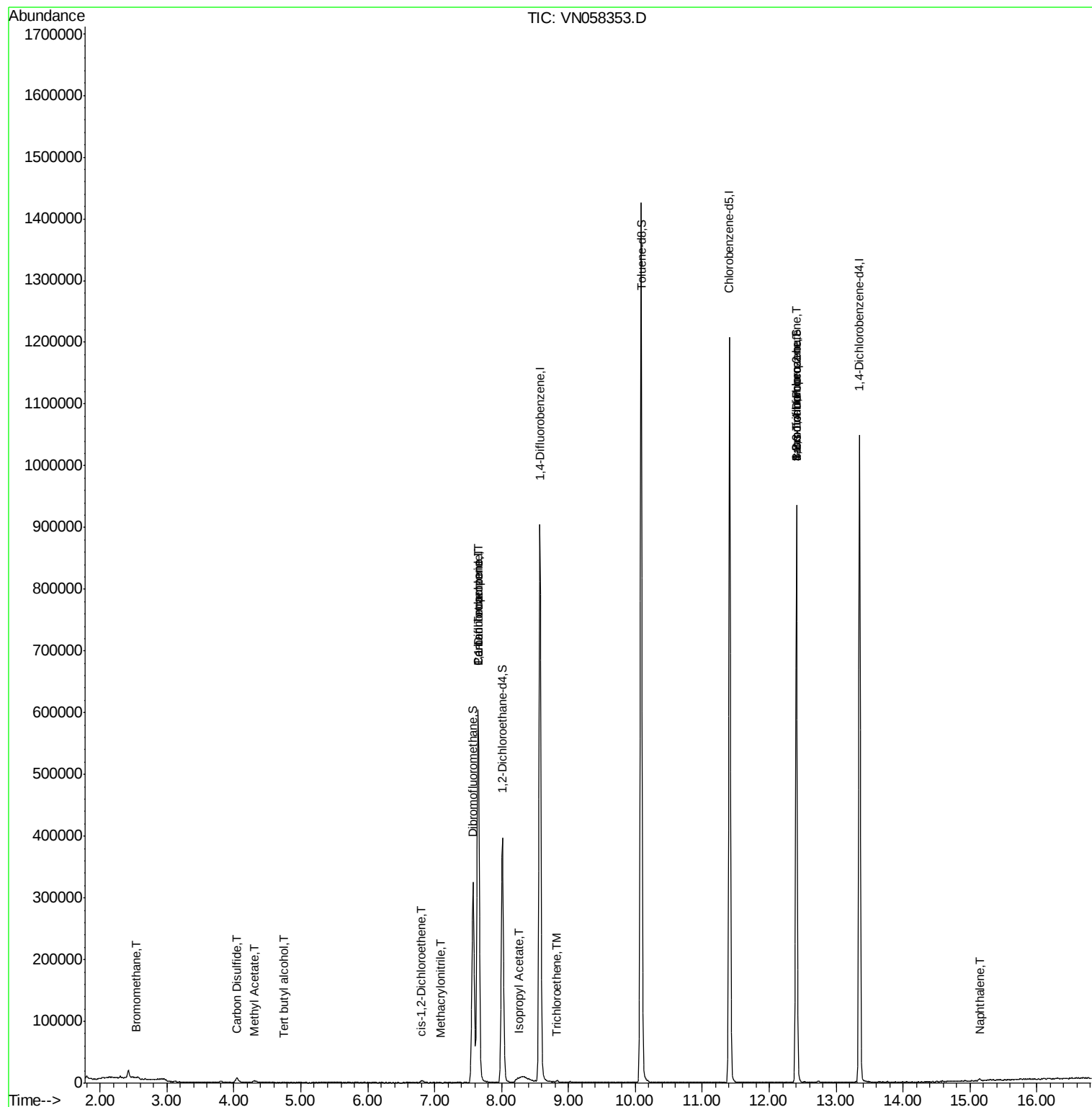
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	867	Below Cal	#	78
4) Vinyl Chloride	2.17	62	878	Below Cal	#	72
5) Bromomethane	2.55	94	207	0.840	ug/l #	4
6) Chloroethane	2.69	64	134	Below Cal	#	44
11) Tert butyl alcohol	4.74	59	195	0.248	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	163	Below Cal	#	28
17) Carbon Disulfide	4.03	76	603	0.417	ug/l #	74
18) Methyl Acetate	4.31	43	5295	0.898	ug/l #	70
20) Methylene Chloride	4.52	84	63	Below Cal	#	63
27) cis-1,2-Dichloroethene	6.81	96	1571	0.327	ug/l #	1
31) Cyclohexane	7.64	56	12088	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	40143	7.141	ug/l #	51
38) Carbon Tetrachloride	7.65	117	48519	8.586	ug/l #	14
41) Methacrylonitrile	7.07	41	30	0.921	ug/l #	100
43) Isopropyl Acetate	8.27	43	10449	0.959	ug/l #	57
44) Trichloroethene	8.82	130	851	0.203	ug/l	75
71) Bromoform	12.40	173	395	3.713	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	172558	37.097	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	172558	103.427	ug/l #	5
95) Naphthalene	15.14	128	3285	0.265	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

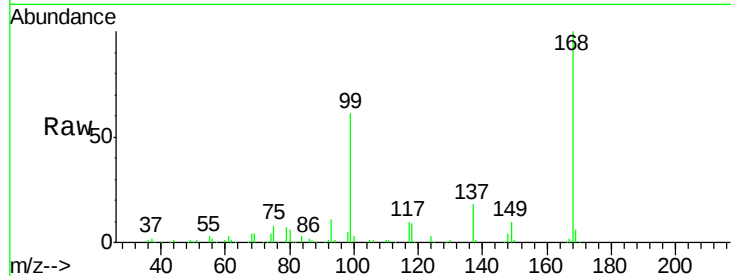
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 473759

Ion Ratio Lower Upper

168 100

99 60.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

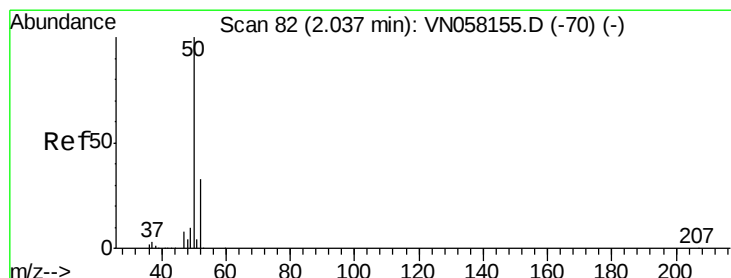
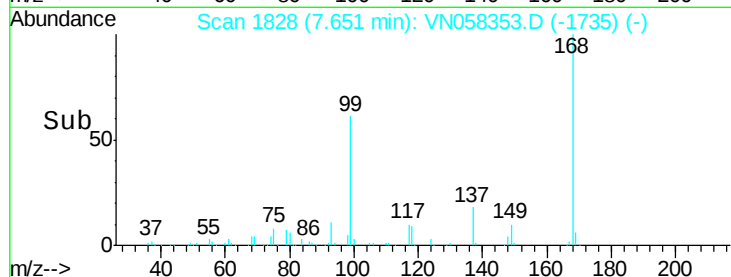
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058353.D

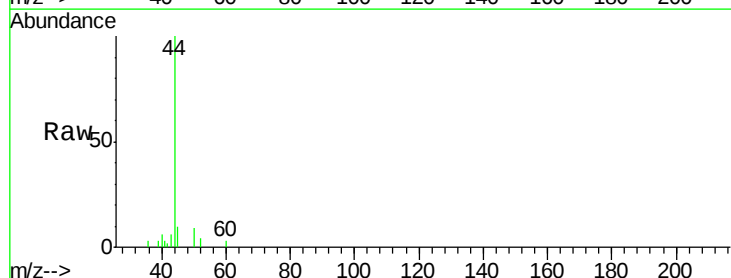
Acq: 25 Sep 2019 10:02

Tgt Ion: 50 Resp: 867

Ion Ratio Lower Upper

50 100

52 45.2 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

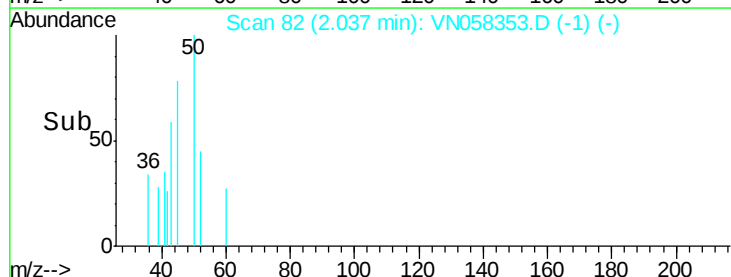
600

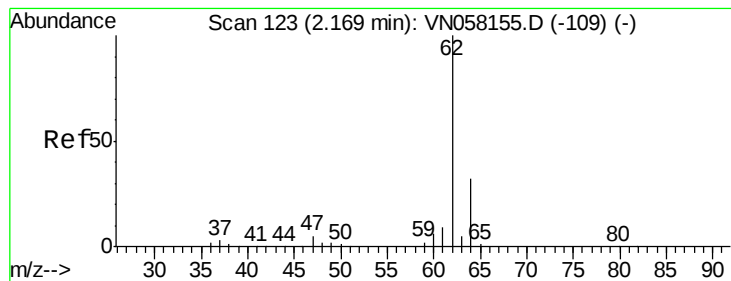
400

200

0

Time--> 2.00 2.02 2.04 2.06 2.08





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

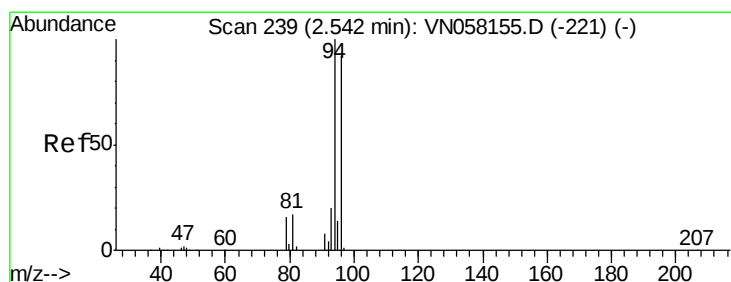
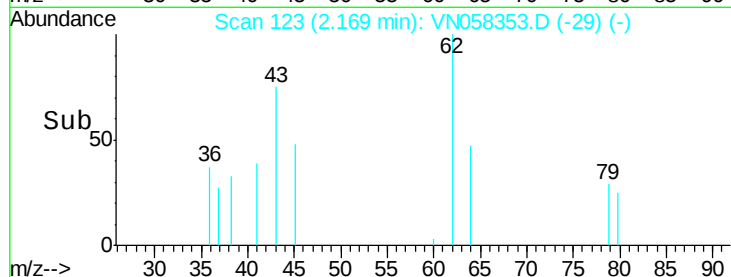
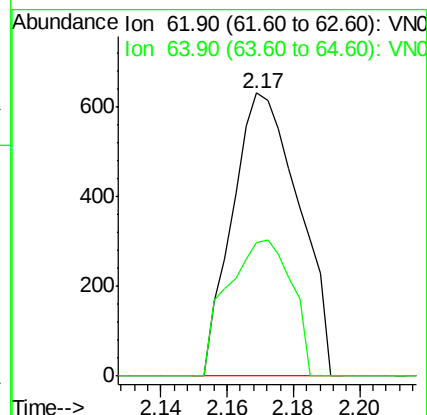
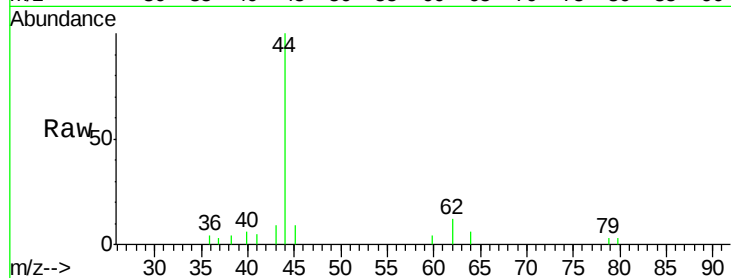
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 62 Resp: 878

Ion Ratio Lower Upper

62 100

64 47.3 25.4 38.2#



#5

Bromomethane

Concen: 0.840 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058353.D

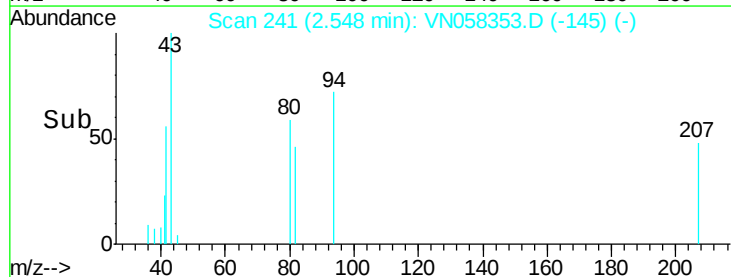
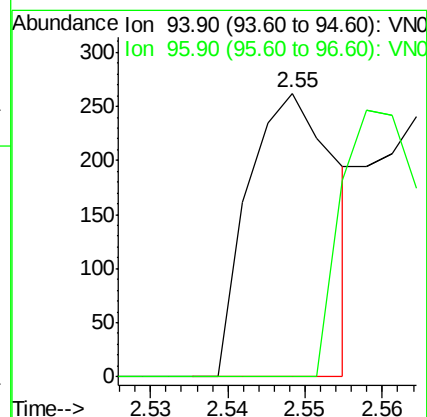
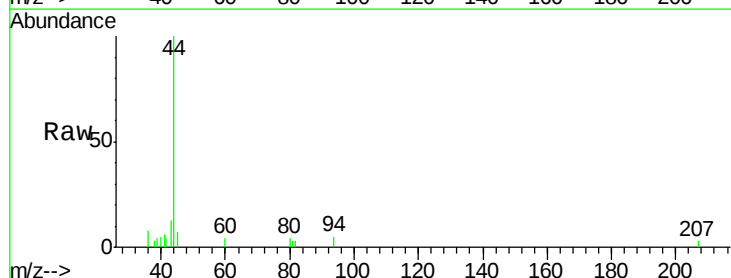
Acq: 25 Sep 2019 10:02

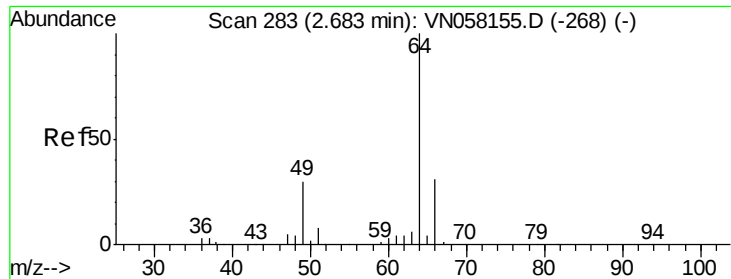
Tgt Ion: 94 Resp: 207

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA_N

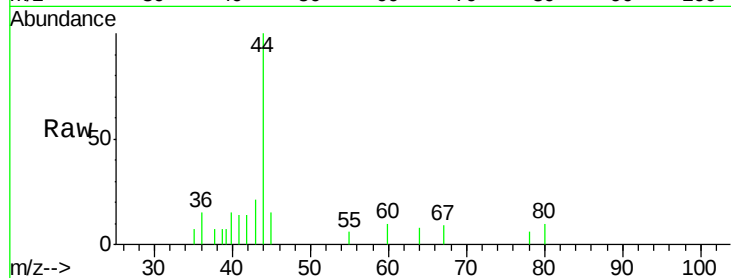
ClientSampled :

Tot Ion: 64 Resp: 134

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC

2.69

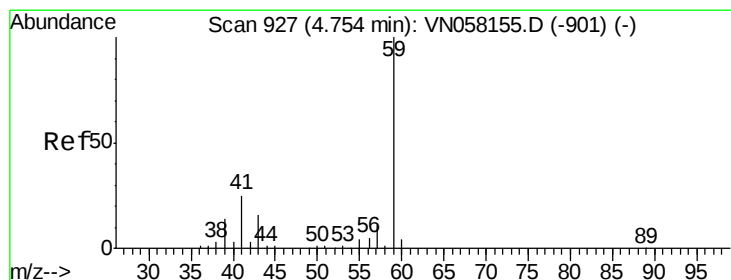
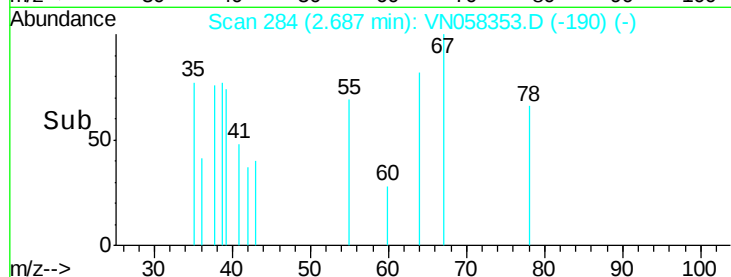
150

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: 0.248 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.01 min

Lab File: VN058353.D

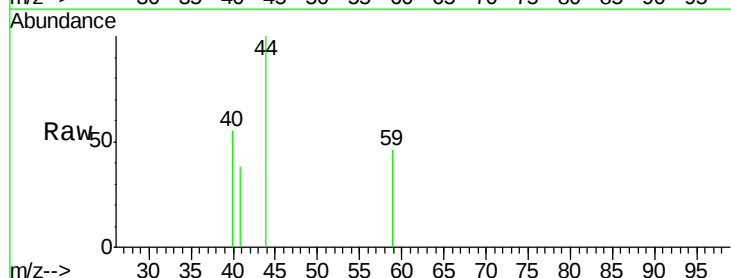
Acq: 25 Sep 2019 10:02

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VNC

Ion 57.00 (56.70 to 57.70): VNC

4.74

250

200

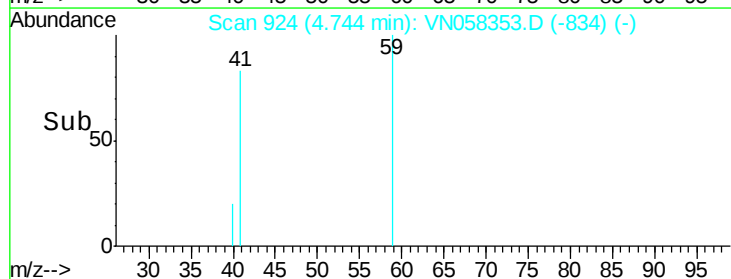
150

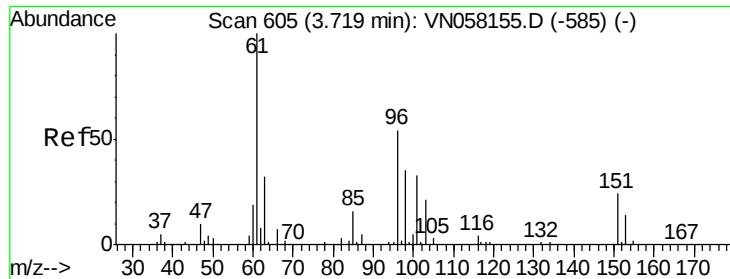
100

50

0

Time-->

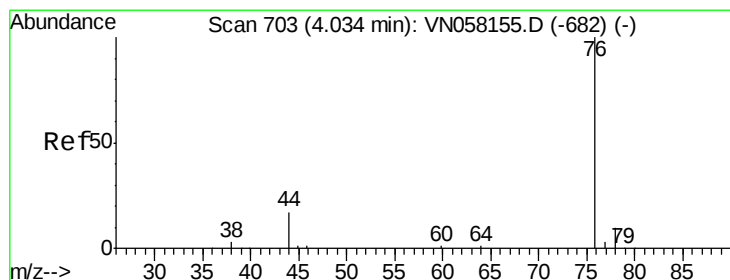
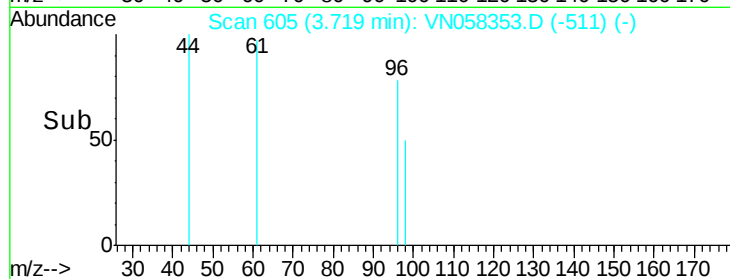
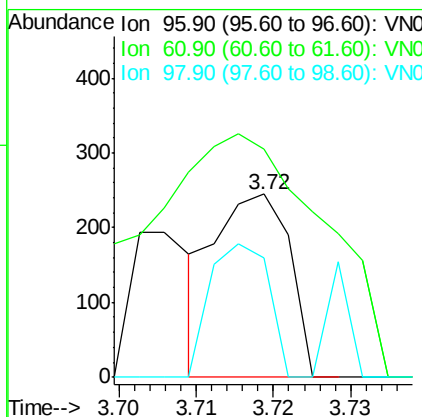
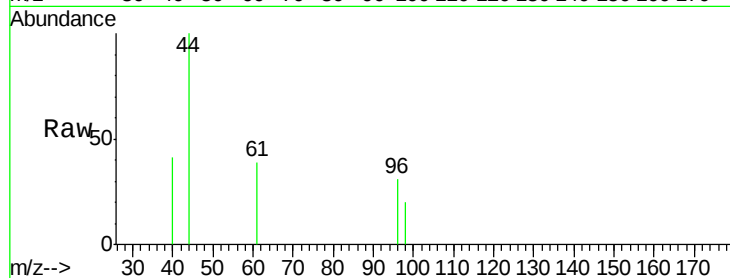




#12
 1,1-Dichloroethene
 Concen: Below Cal
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058353.D
 Acq: 25 Sep 2019 10:02

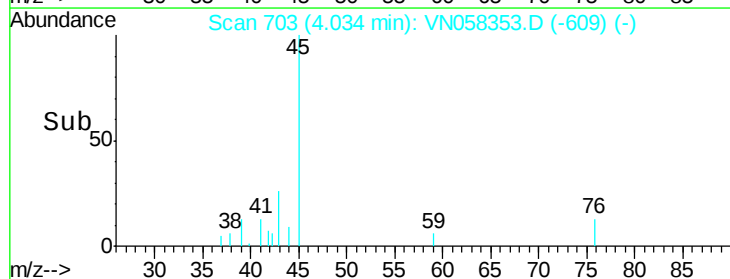
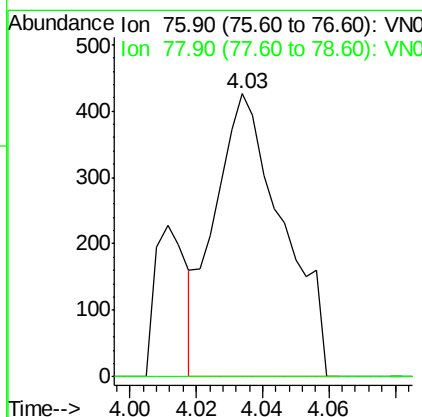
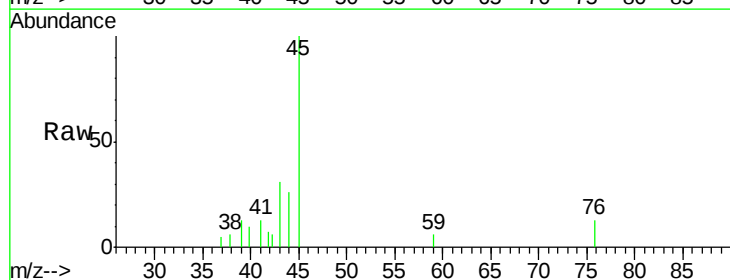
Instrument :
 MSVOA_N
 ClientSampled :

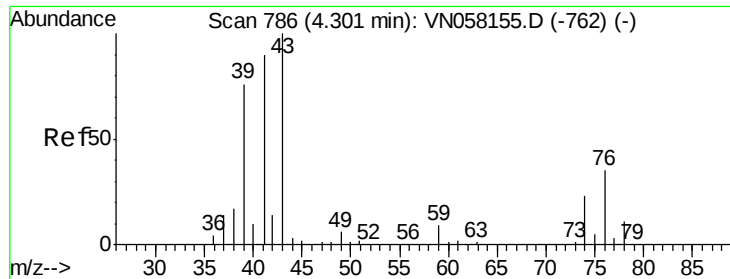
Tot Ion: 96 Resp: 163
 Ion Ratio Lower Upper
 96 100
 61 46.5 149.5 224.3#
 98 64.9 52.4 78.6



#17
 Carbon Disulfide
 Concen: 0.417 ug/l
 RT: 4.03 min Scan# 703
 Delta R.T. 0.00 min
 Lab File: VN058353.D
 Acq: 25 Sep 2019 10:02

Tgt Ion: 76 Resp: 603
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.7 11.5#

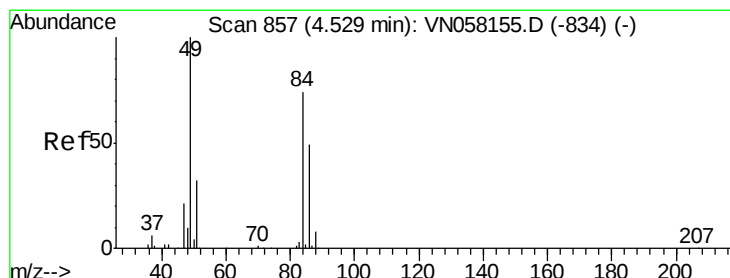
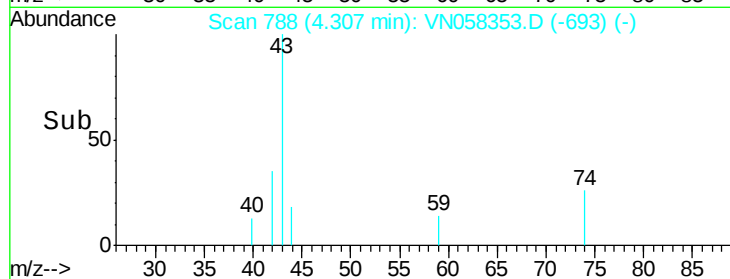
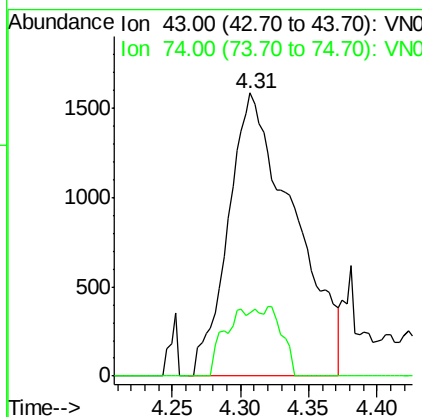
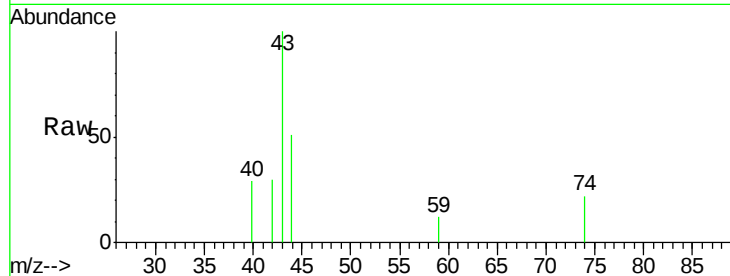




#18
Methyl Acetate
Concen: 0.898 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058353.D
Acq: 25 Sep 2019 10:02

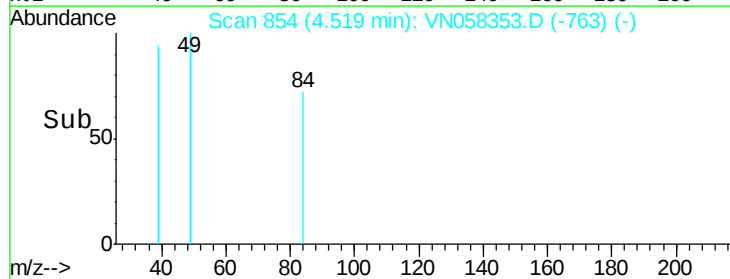
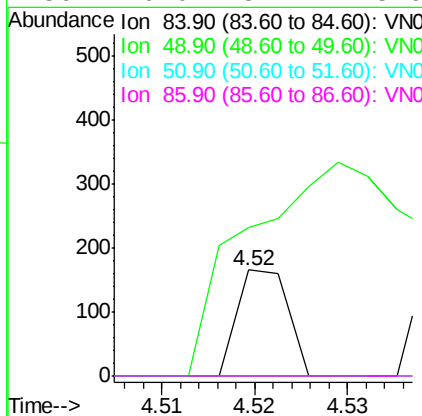
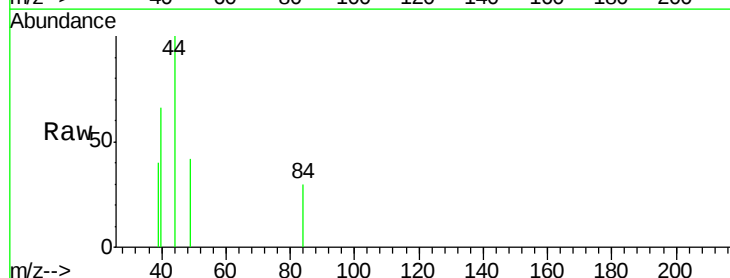
Instrument :
MSVOA_N
ClientSampled :

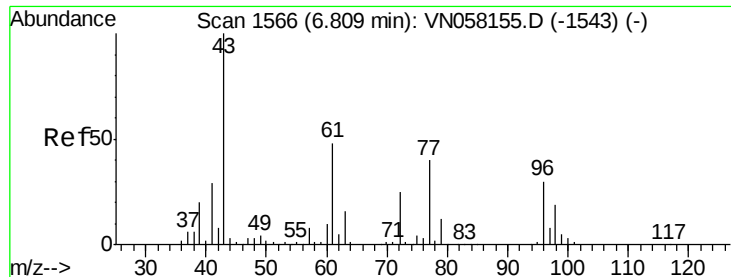
Tot Ion: 43 Resp: 5295
Ion Ratio Lower Upper
43 100
74 8.3 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 854
Delta R.T. -0.01 min
Lab File: VN058353.D
Acq: 25 Sep 2019 10:02

Tgt Ion: 84 Resp: 63
Ion Ratio Lower Upper
84 100
49 139.8 107.5 161.3
51 0.0 33.9 50.9#
86 0.0 52.4 78.6#





#27

cis-1,2-Dichloroethene

Concen: 0.327 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :
MSVOA_N
ClientSampled :

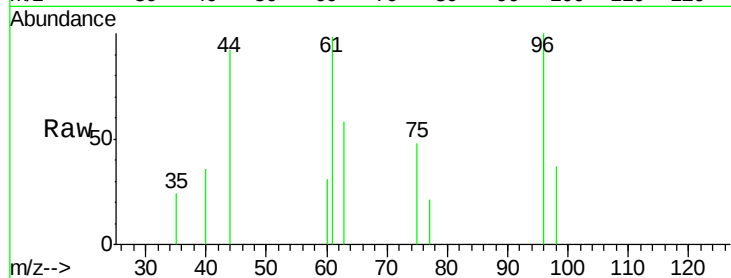
Tot Ion: 96 Resp: 1571

Ion Ratio Lower Upper

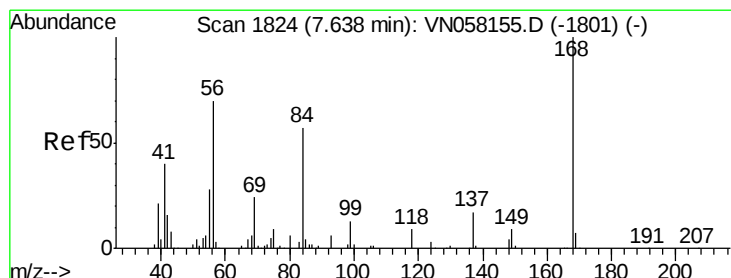
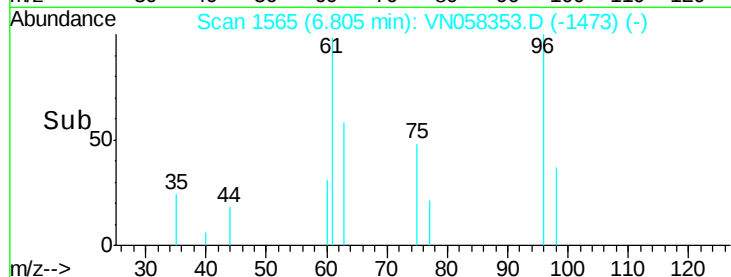
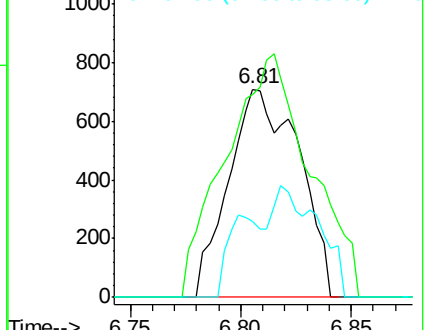
96 100

61 0.0 0.0 319.0

98 17.7 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

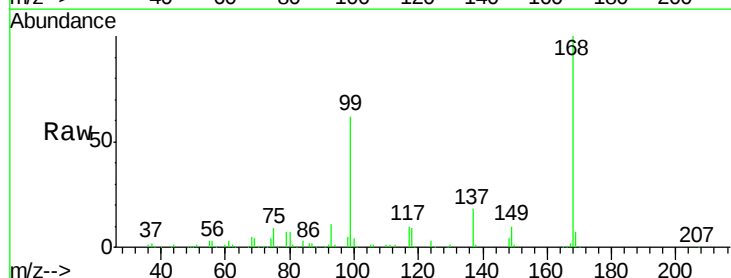
Tgt Ion: 56 Resp: 12088

Ion Ratio Lower Upper

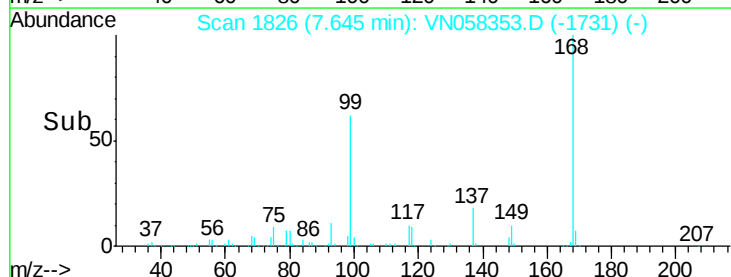
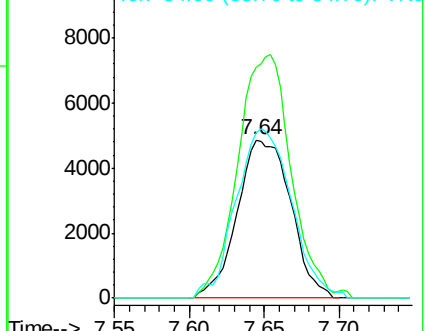
56 100

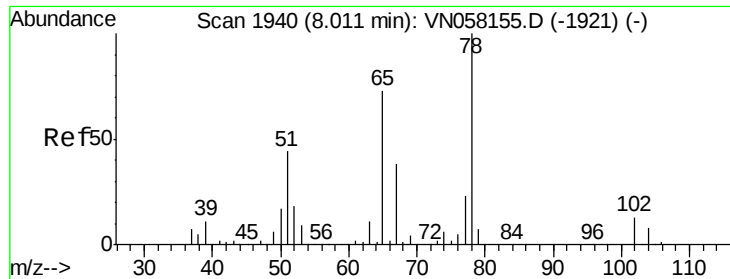
69 145.6 27.3 40.9#

84 104.2 65.0 97.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

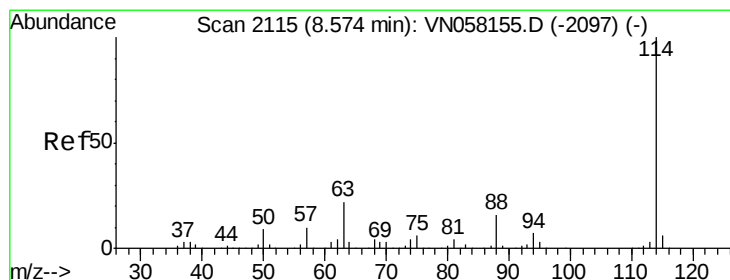
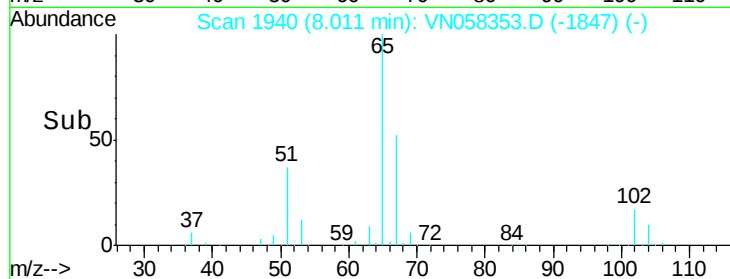
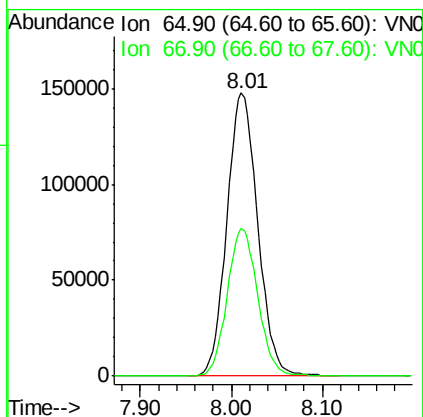
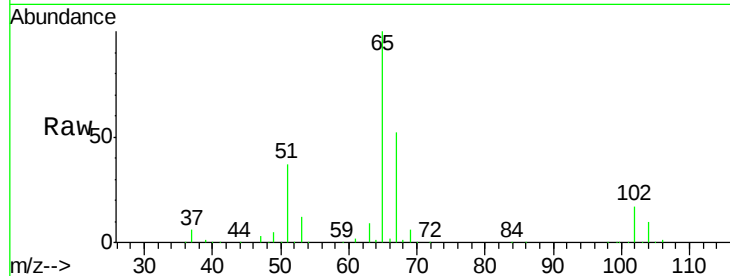




#33
 1,2-Dichloroethane-d4
 Concen: 52.743 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058353.D
 Acq: 25 Sep 2019 10:02

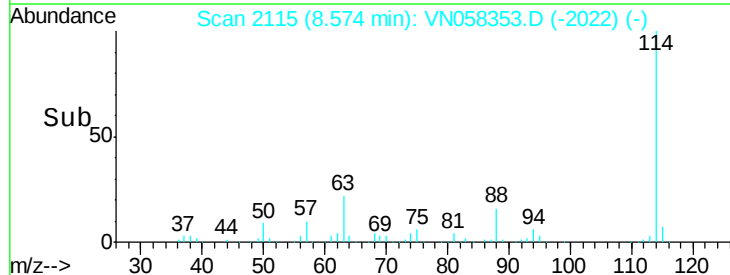
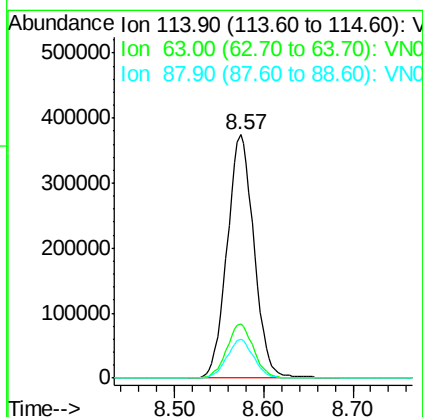
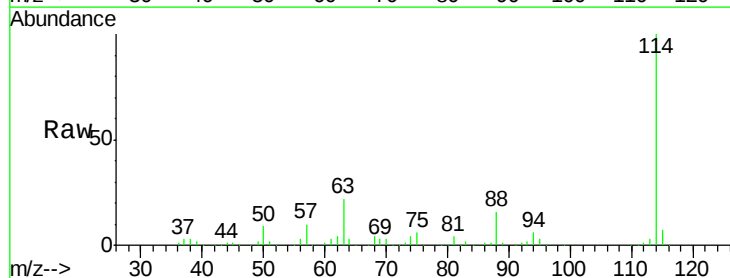
Instrument :
 MSVOA_N
 ClientSampleId :

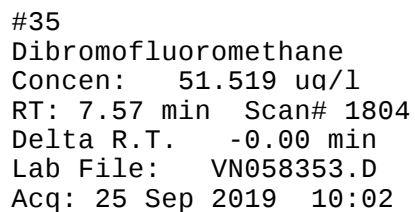
Tot Ion: 65 Resp: 348028
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058353.D
 Acq: 25 Sep 2019 10:02

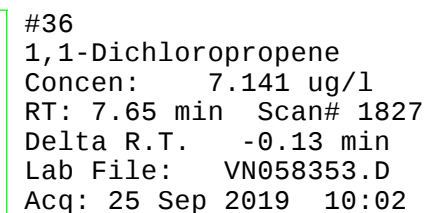
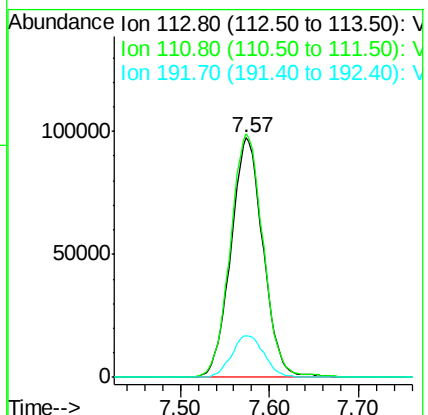
Tgt Ion: 114 Resp: 779489
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.2
 88 15.8 0.0 31.6



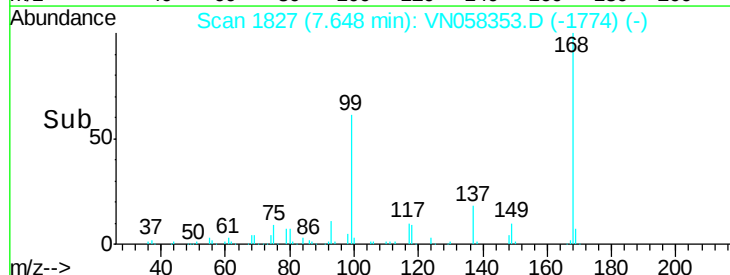
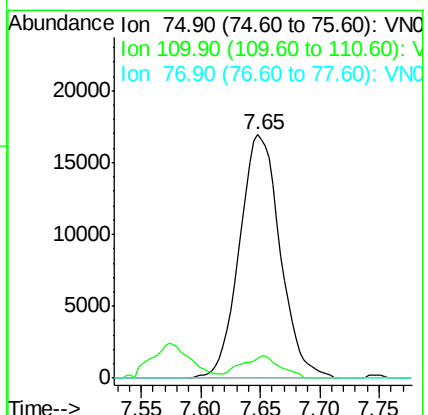


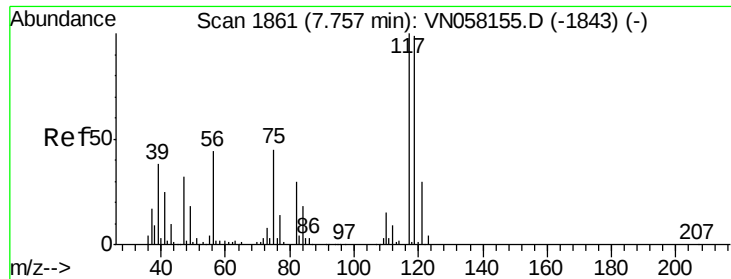
Instrument :
MSVOA_N
ClientSampleId :

Tqt	Ion:113	Resp:	244132
Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	17.7	14.5	21.7



Tgt	Ion: 75	Resp:	40143
Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.586 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :
MSVOA_N
ClientSampled :

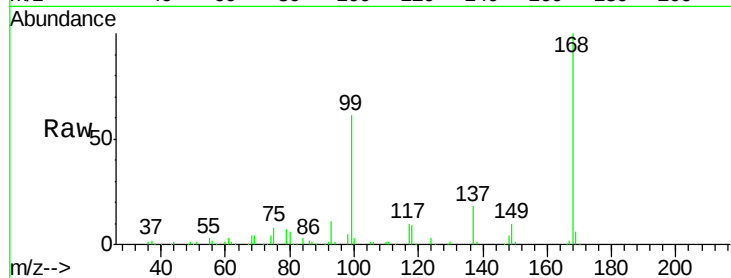
Tot Ion:117 Resp: 48519

Ion Ratio Lower Upper

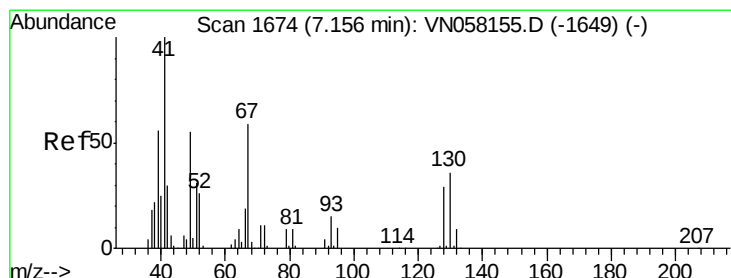
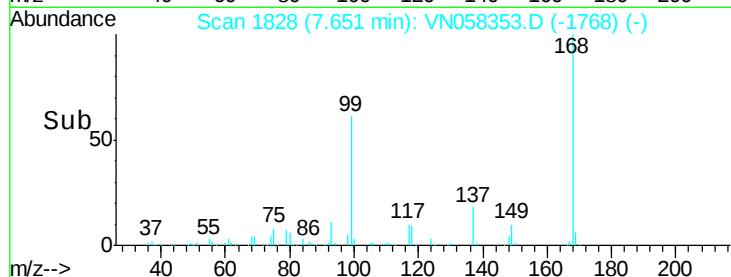
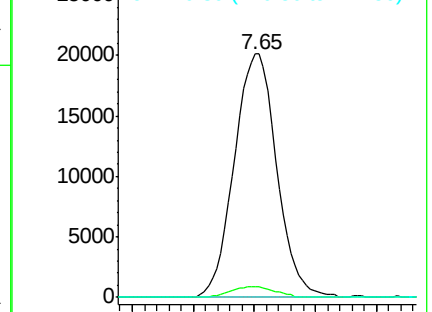
117 100

119 4.2 78.6 117.8#

121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.921 ug/l

RT: 7.07 min Scan# 1648

Delta R.T. -0.08 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Tgt Ion: 41 Resp: 30

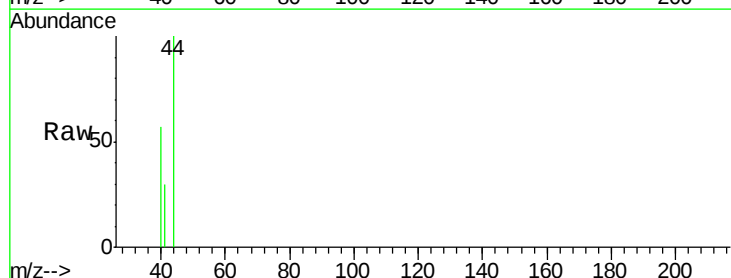
Ion Ratio Lower Upper

41 100

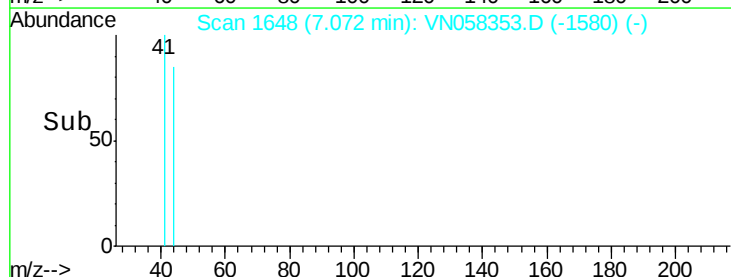
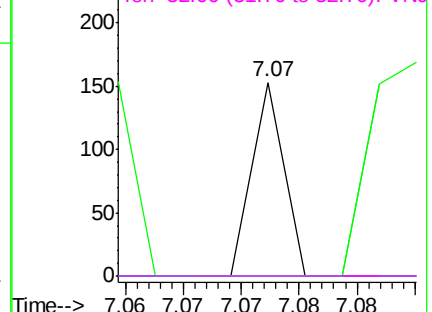
39 206.7 0.0 0.0#

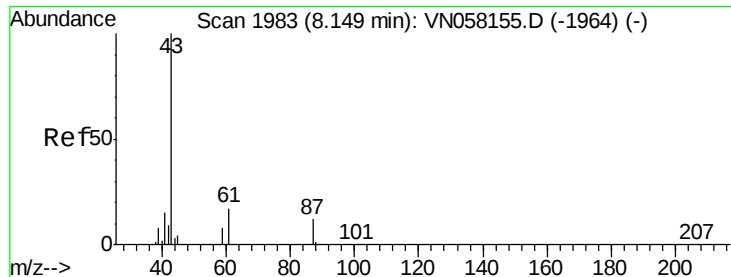
67 0.0 0.0 0.0

52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 0.959 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.12 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA_N

ClientSampleId :

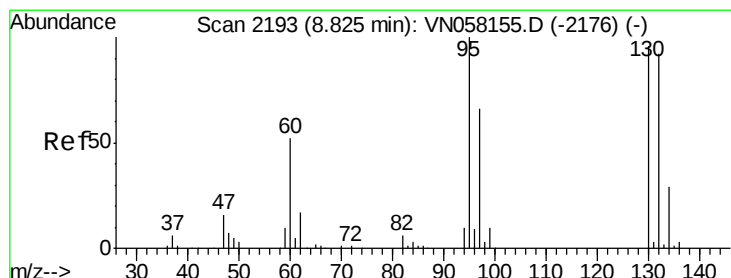
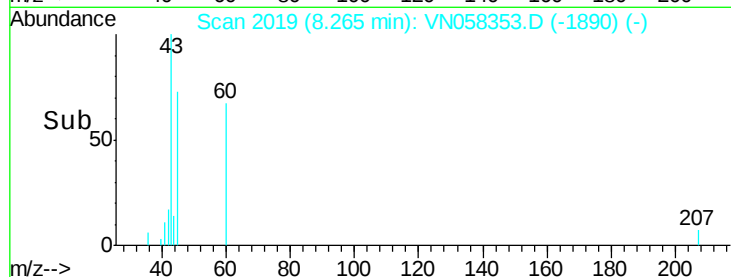
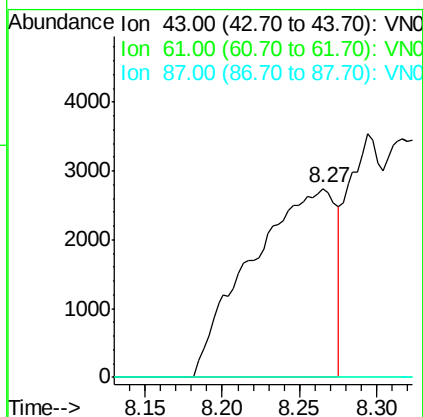
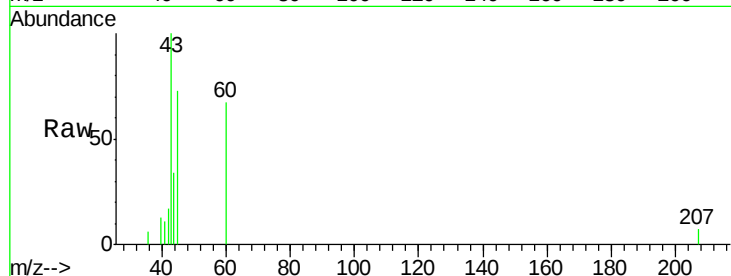
Tot Ion: 43 Resp: 10449

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#44

Trichloroethene

Concen: 0.203 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058353.D

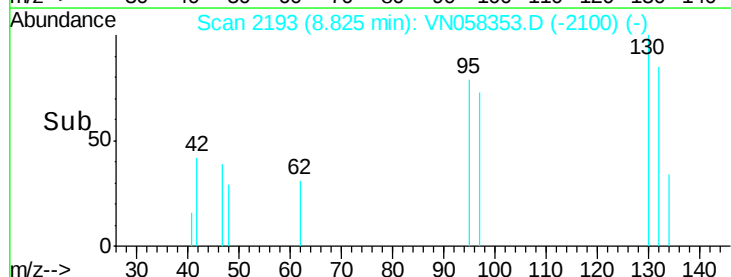
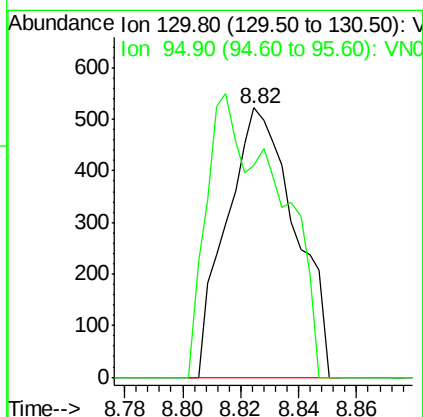
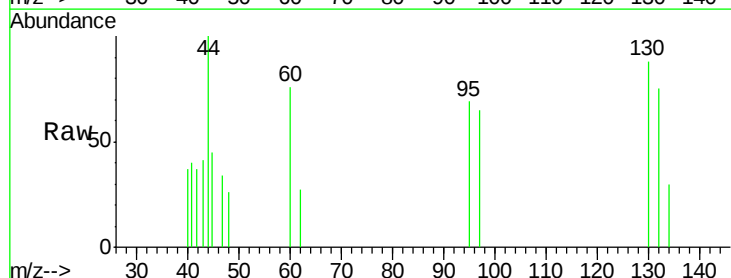
Acq: 25 Sep 2019 10:02

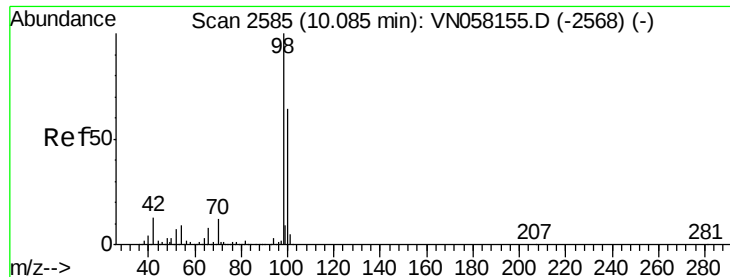
Tgt Ion:130 Resp: 851

Ion Ratio Lower Upper

130 100

95 78.7 0.0 207.8





#50

Toluene-d8

Concen: 52.505 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA_N

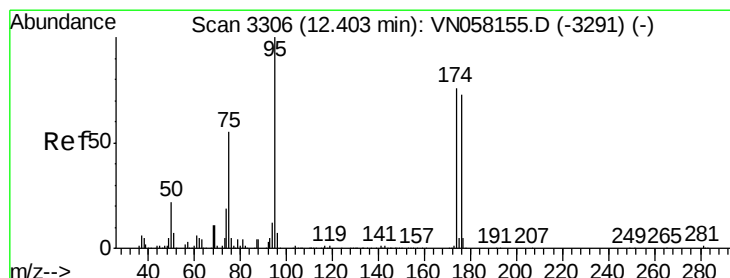
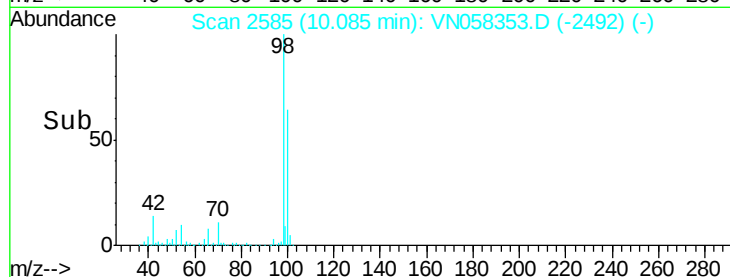
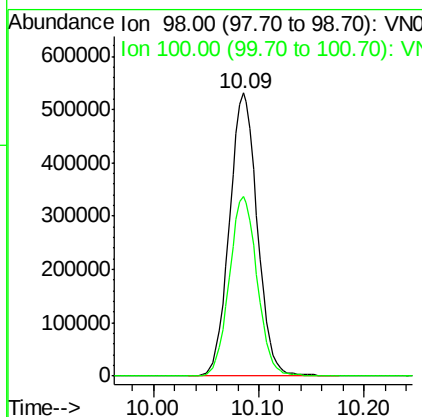
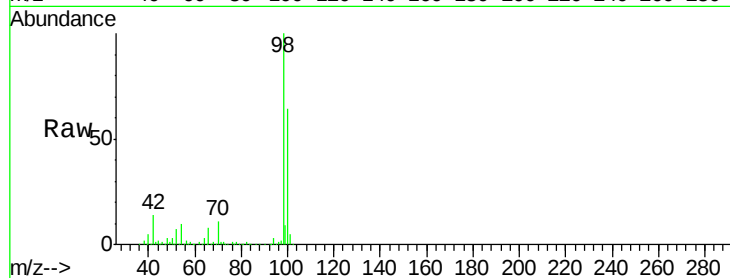
ClientSampled :

Tot Ion: 98 Resp: 969379

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 45.595 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

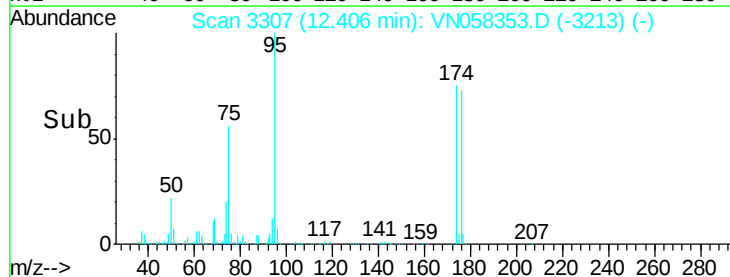
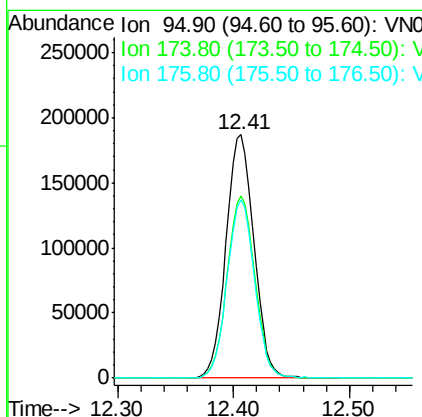
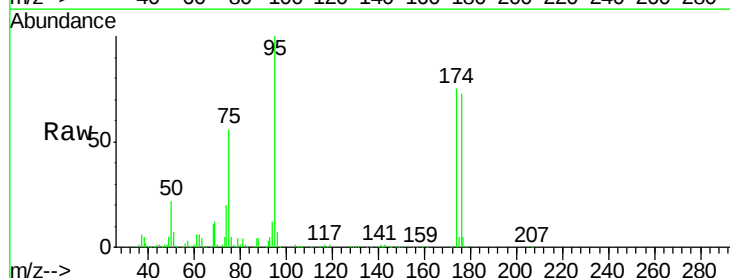
Tgt Ion: 95 Resp: 312702

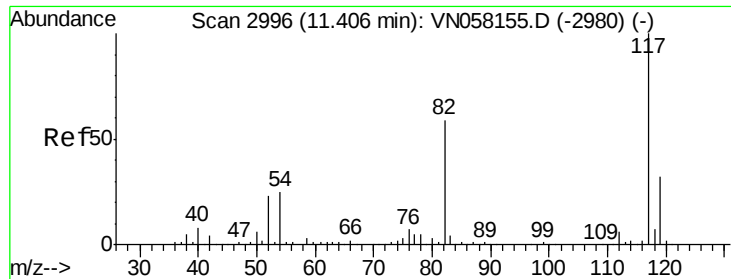
Ion Ratio Lower Upper

95 100

174 74.5 0.0 152.2

176 71.9 0.0 148.0

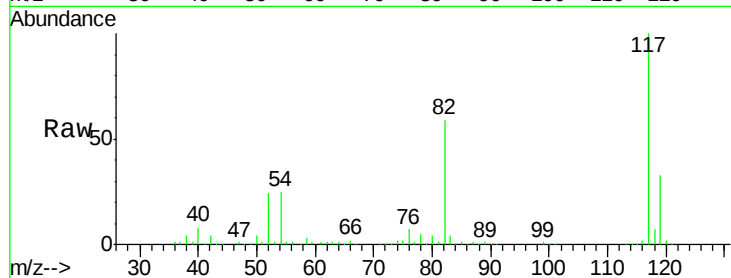




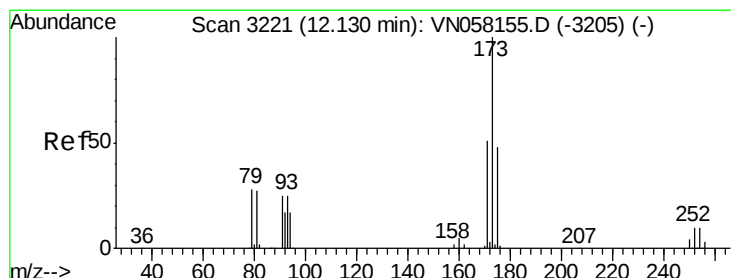
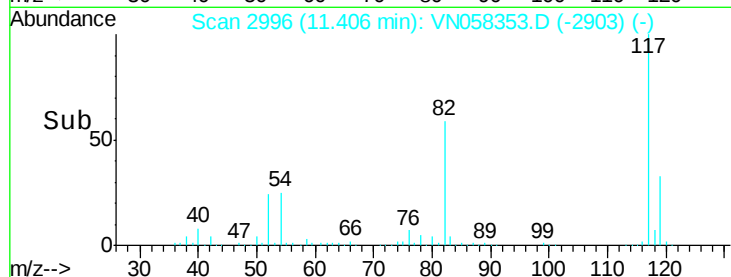
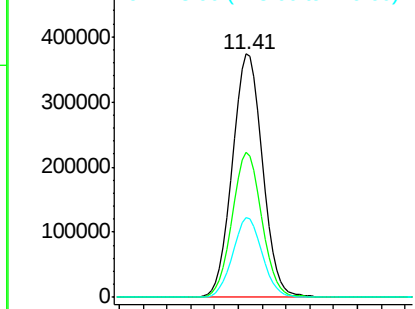
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058353.D
Acq: 25 Sep 2019 10:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 658828
Ion Ratio Lower Upper
117 100
82 59.3 46.9 70.3
119 32.6 25.3 37.9

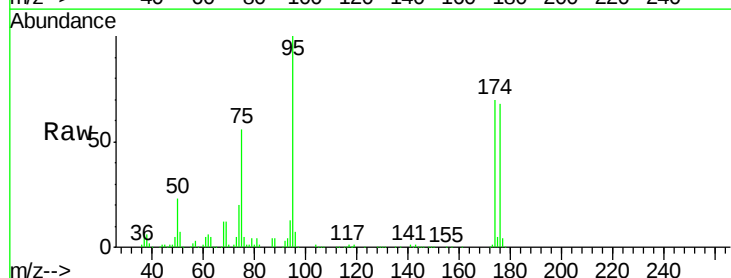


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

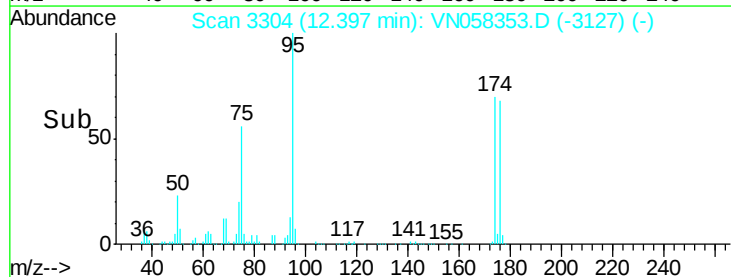
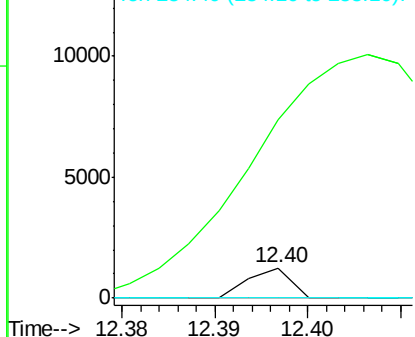


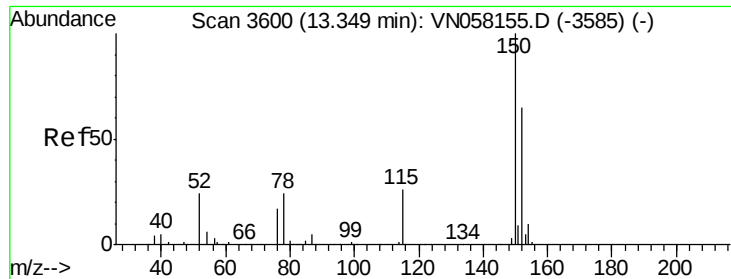
#71
Bromoform
Concen: 3.713 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN058353.D
Acq: 25 Sep 2019 10:02

Tgt Ion:173 Resp: 395
Ion Ratio Lower Upper
173 100
175 3599.7 24.2 72.6#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA_N

ClientSampleId :

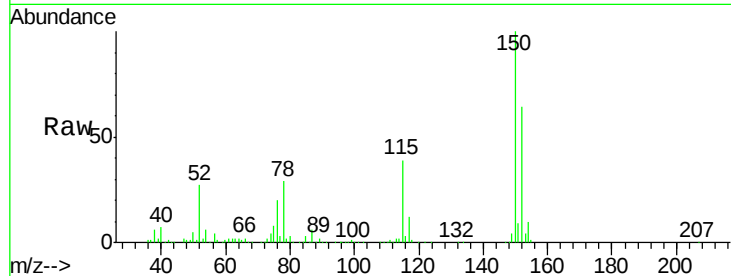
Tot Ion:152 Resp: 259907

Ion Ratio Lower Upper

152 100

115 61.5 30.1 90.3

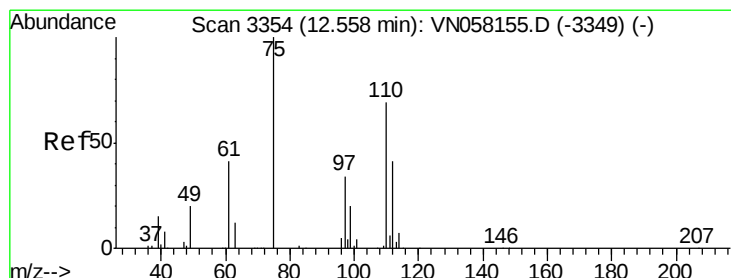
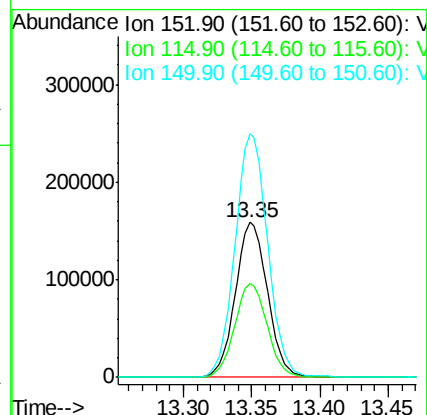
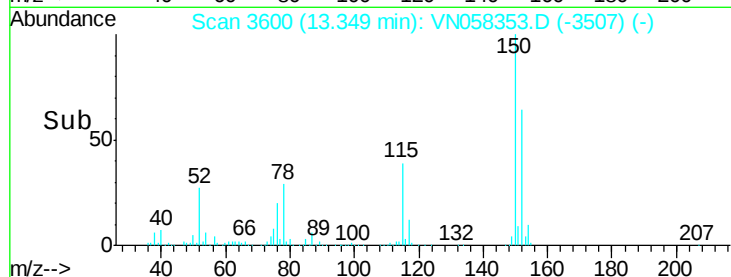
150 159.6 0.0 346.4



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: 37.097 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058353.D

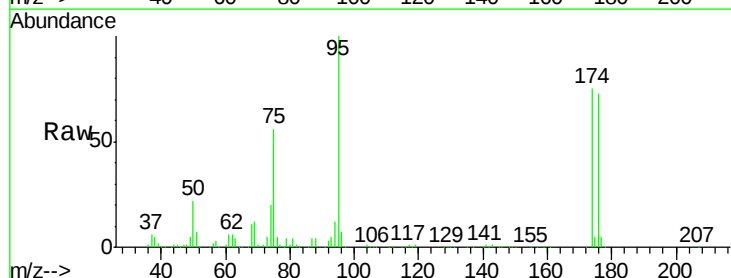
Acq: 25 Sep 2019 10:02

Tgt Ion: 75 Resp: 172558

Ion Ratio Lower Upper

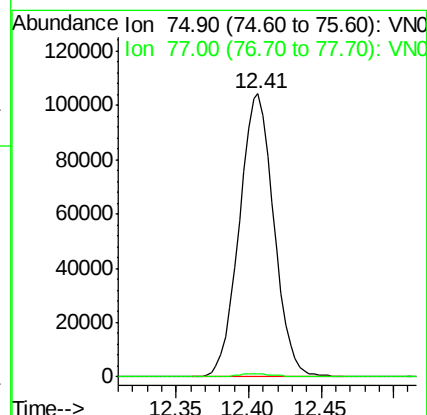
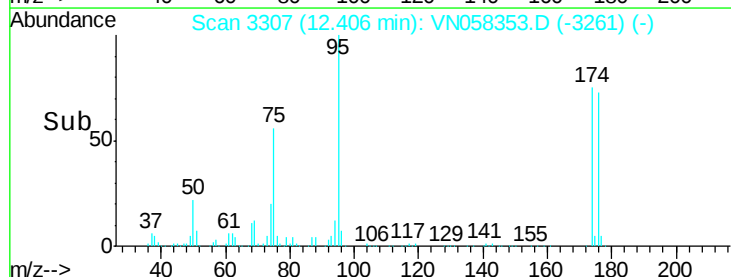
75 100

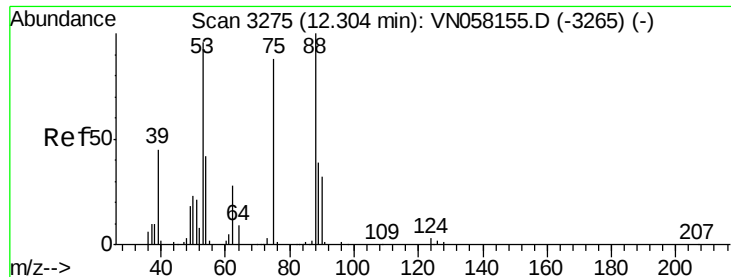
77 1.1 0.0 0.0#



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: 103.427 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

Instrument :

MSVOA_N

ClientSampled :

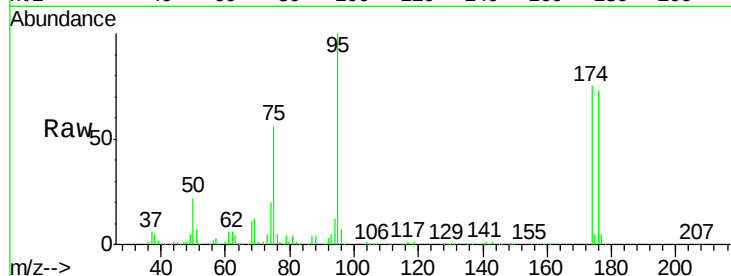
Tot Ion: 75 Resp: 172558

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

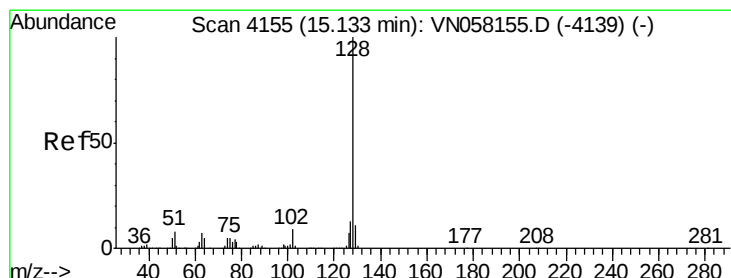
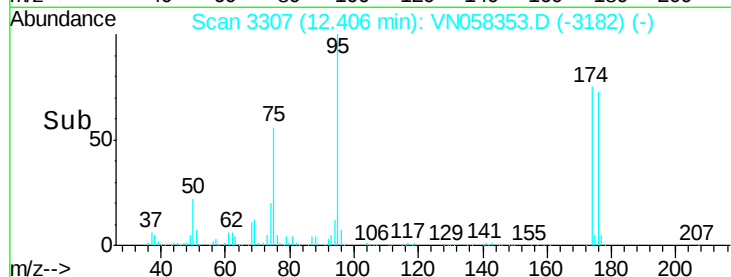
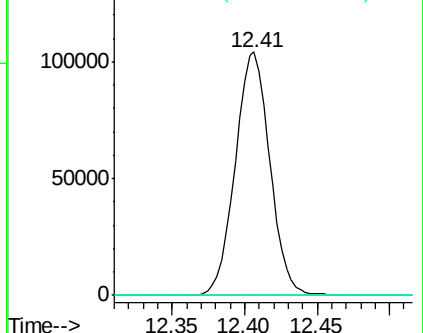
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 0.265 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058353.D

Acq: 25 Sep 2019 10:02

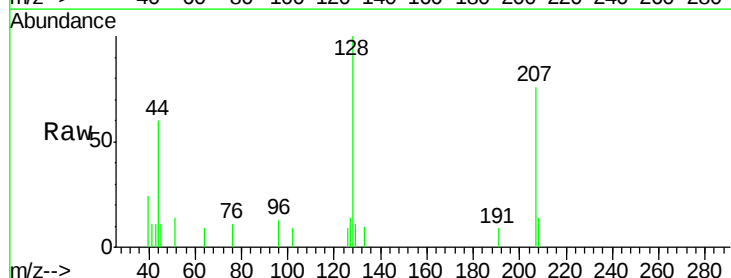
Tgt Ion: 128 Resp: 3285

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

129 9.9 8.6 12.8



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

