

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055514.D
 Acq On : 9 May 2019 23:09
 Operator : JC/SP
 Sample : K2758-33
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 10 04:19:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	899266	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1509499	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1261665	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	353115	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	609143	44.99	ug/l	0.00
Spiked Amount			Recovery	=	89.98%	
35) Dibromofluoromethane	7.59	113	460958	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	10.09	98	1820368	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	12.40	95	534589	41.78	ug/l	0.00
Spiked Amount			Recovery	=	83.56%	

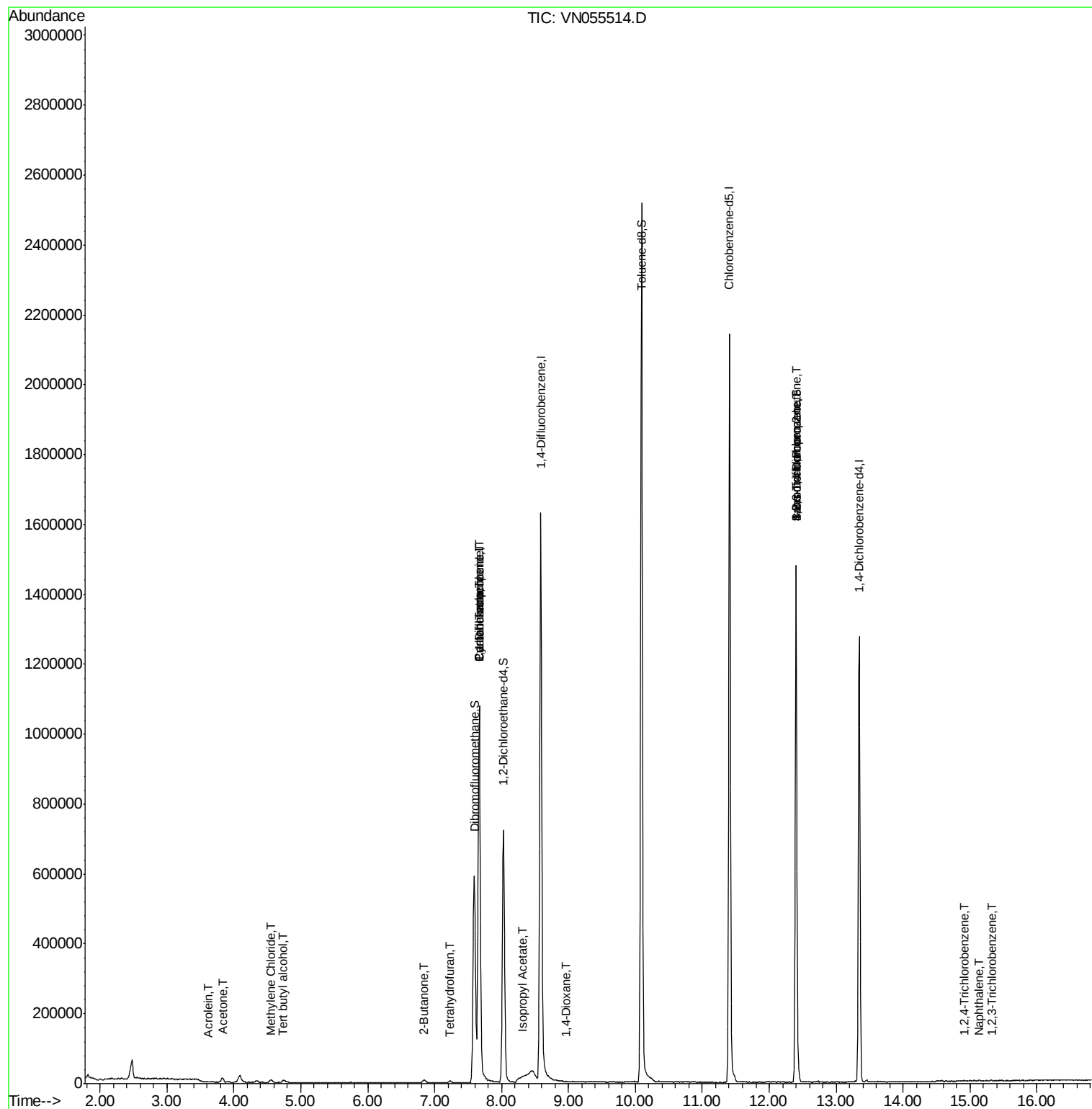
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	2491	1.246	ug/l #	73
13) Acrolein	3.61	56	340	0.255	ug/l #	14
16) Acetone	3.83	43	22076	3.521	ug/l	92
18) Methyl Acetate	4.33	43	3712	Below Cal	#	78
20) Methylene Chloride	4.55	84	5091	0.397	ug/l #	82
25) 2-Butanone	6.84	43	1999	0.231	ug/l #	52
29) Tetrahydrofuran	7.23	42	3922	0.685	ug/l #	44
31) Cyclohexane	7.66	56	19282	0.882	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	71560	4.812	ug/l #	50
38) Carbon Tetrachloride	7.66	117	85021	6.790	ug/l #	15
43) Isopropyl Acetate	8.31	43	25083	1.018	ug/l #	63
49) 1,4-Dioxane	8.95	88	62	0.268	ug/l #	1
71) Bromoform	12.40	173	4144	0.687	ug/l #	1
73) Isopropylbenzene	12.25	105	716	Below Cal	#	68
75) 1,1,2,2-Tetrachloroethane	12.51	83	30	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	263601	27.421	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	263601	101.181	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	413	3.279	ug/l #	34
94) Hexachlorobutadiene	15.01	225	372	Below Cal	#	47
95) Naphthalene	15.14	128	1598	3.039	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.32	180	673	2.536	ug/l	75

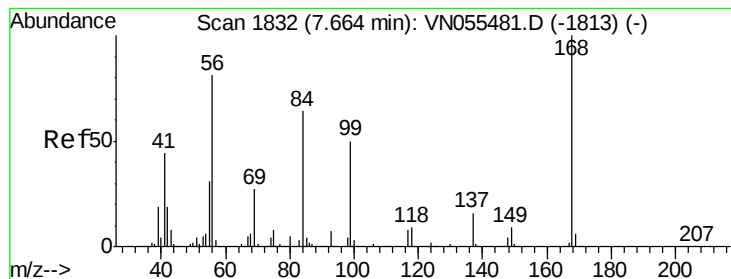
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu May 09 04:17:44 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: VN055514.D

Acq: 9 May 2019 23:09

Instrument :

MSVOA_N

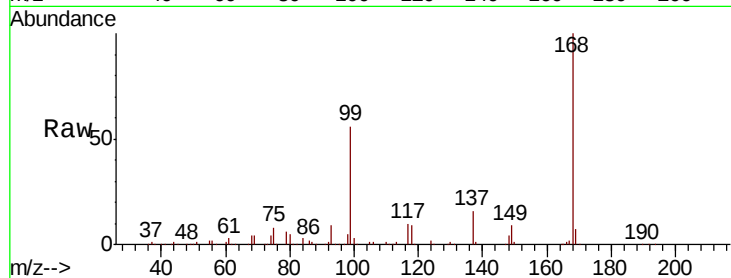
ClientSampled :

Tot Ion:168 Resp: 899266

Ion Ratio Lower Upper

168 100

99 56.2 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

400000

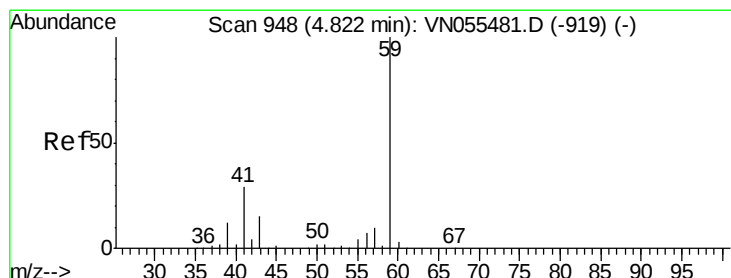
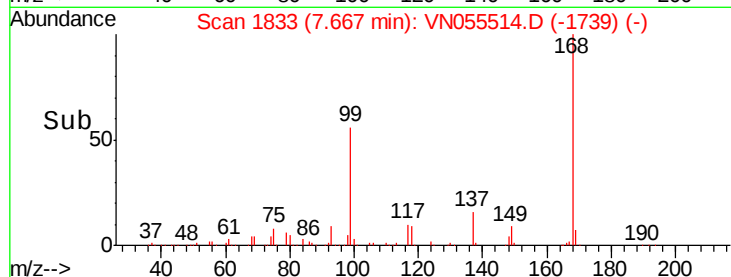
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 1.246 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.09 min

Lab File: VN055514.D

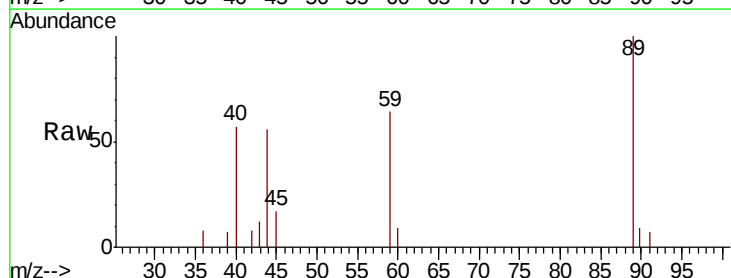
Acq: 9 May 2019 23:09

Tgt Ion: 59 Resp: 2491

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

2000

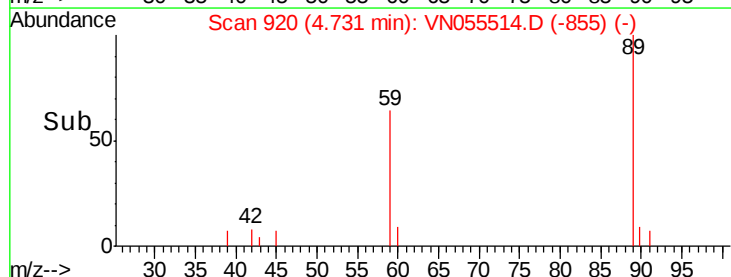
1500

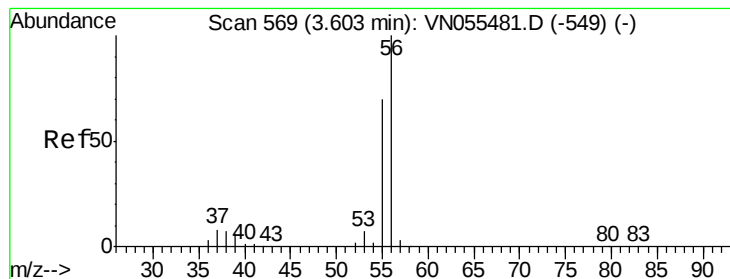
1000

500

0

Time--> 4.68 4.70 4.72 4.74





#13

Acrolein

Concen: 0.255 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

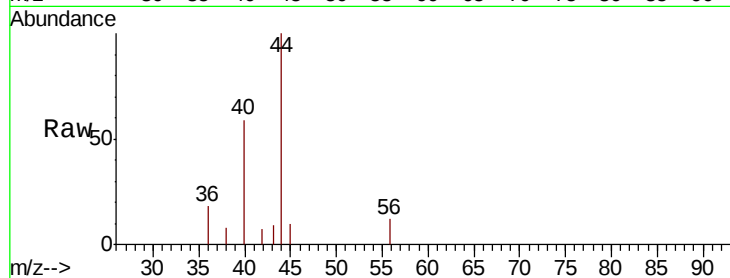
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 340

Ion Ratio Lower Upper

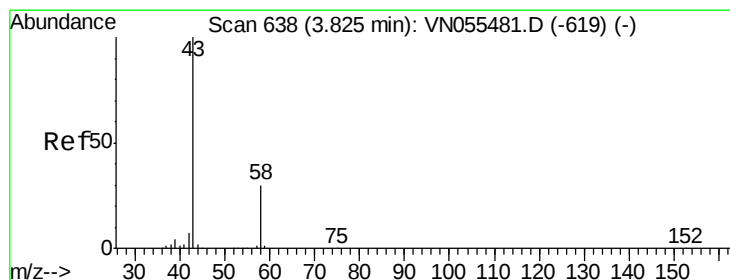
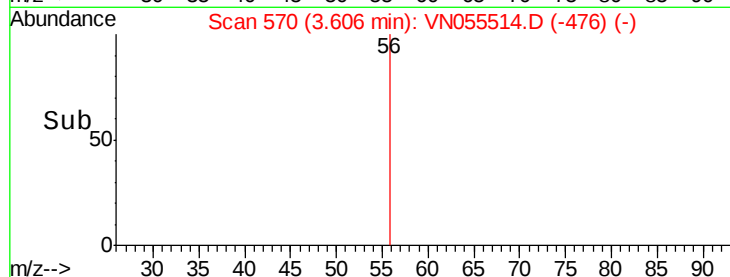
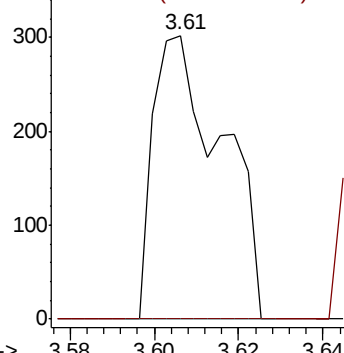
56 100

55 0.0 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 3.521 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055514.D

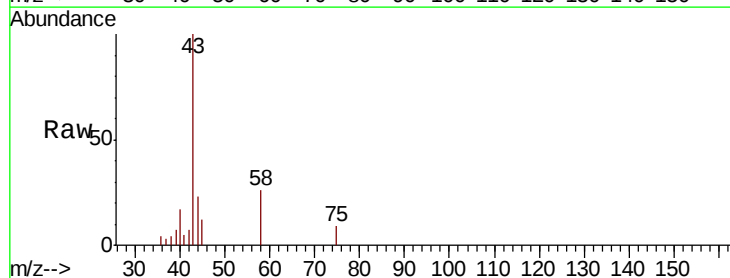
Acq: 9 May 2019 23:09

Tgt Ion: 43 Resp: 22076

Ion Ratio Lower Upper

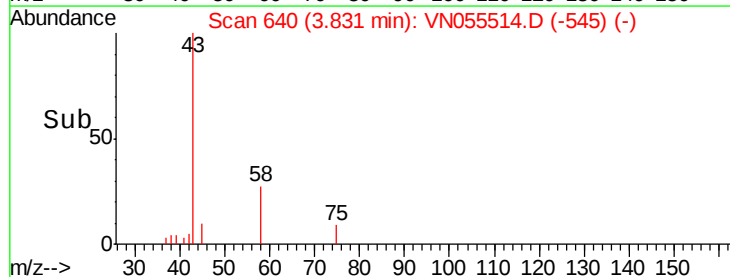
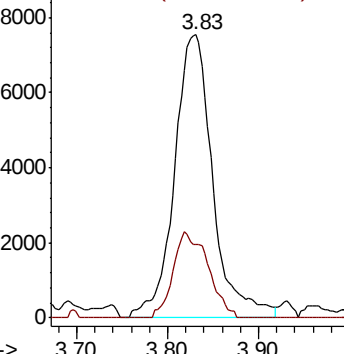
43 100

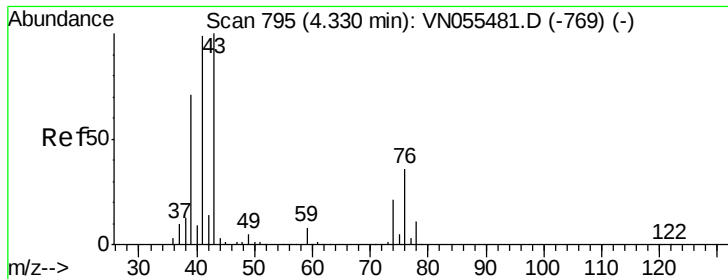
58 25.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

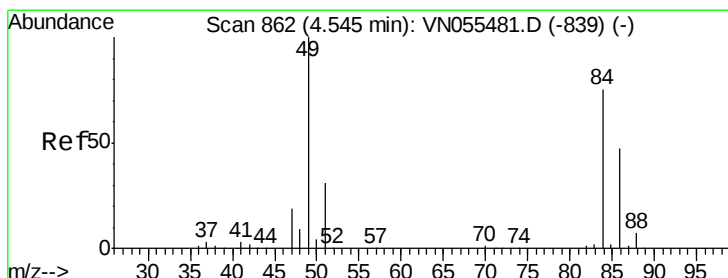
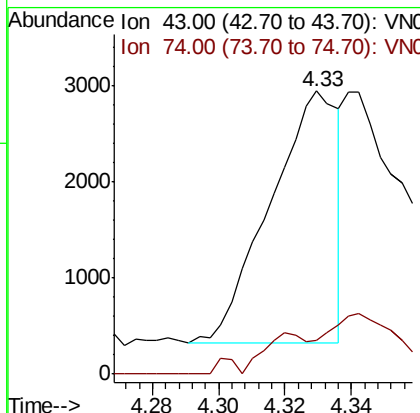
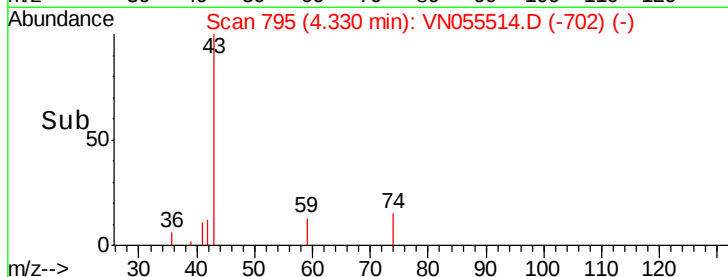
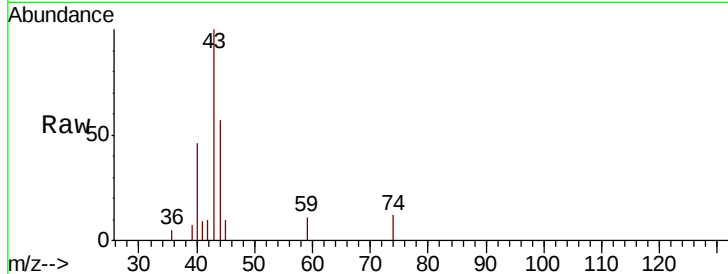




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

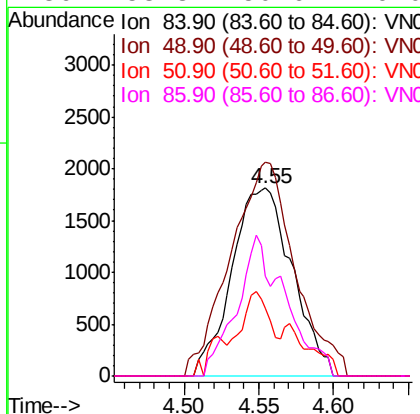
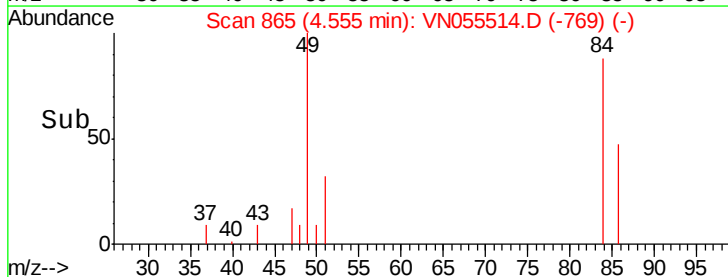
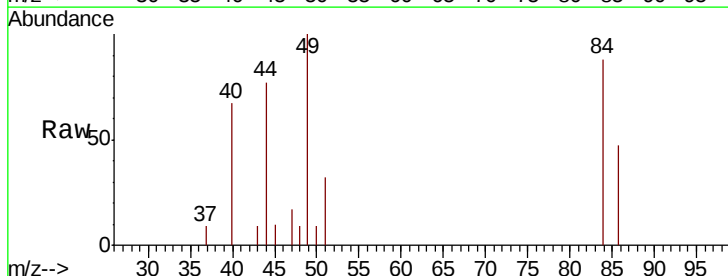
Instrument :
MSVOA_N
ClientSampled :

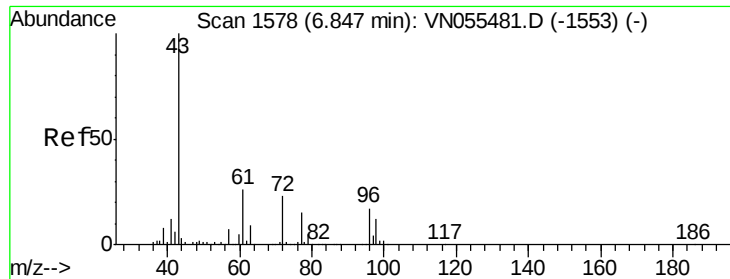
Tot Ion: 43 Resp: 3712
Ion Ratio Lower Upper
43 100
74 10.0 16.3 24.5#



#20
Methylene Chloride
Concen: 0.397 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Tgt Ion: 84 Resp: 5091
Ion Ratio Lower Upper
84 100
49 105.2 107.0 160.6#
51 36.0 33.0 49.4
86 53.3 50.6 76.0





#25

2-Butanone

Concen: 0.231 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

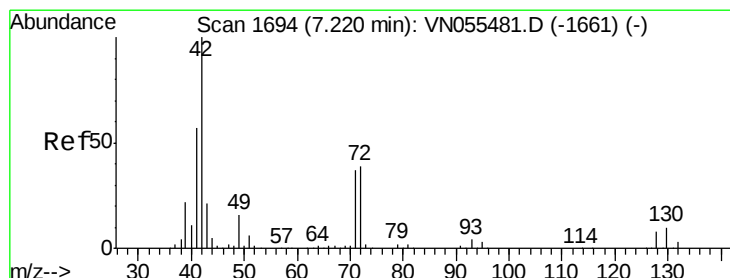
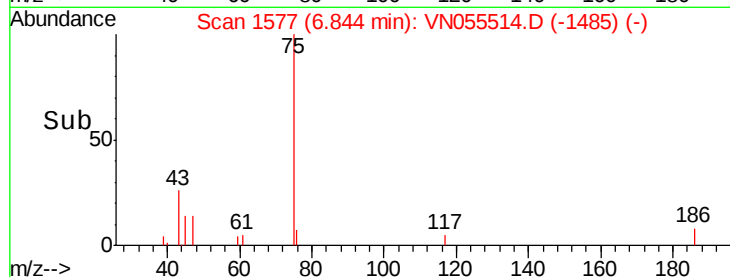
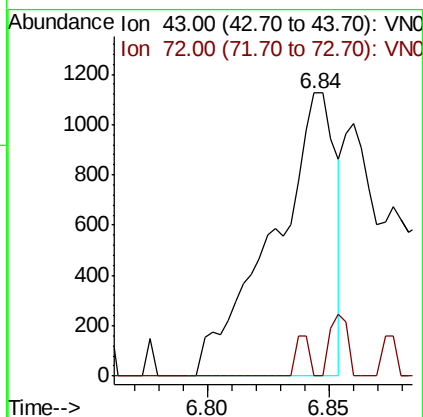
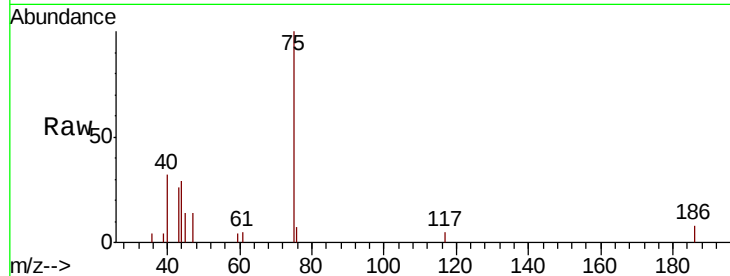
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1999

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#



#29

Tetrahydrofuran

Concen: 0.685 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

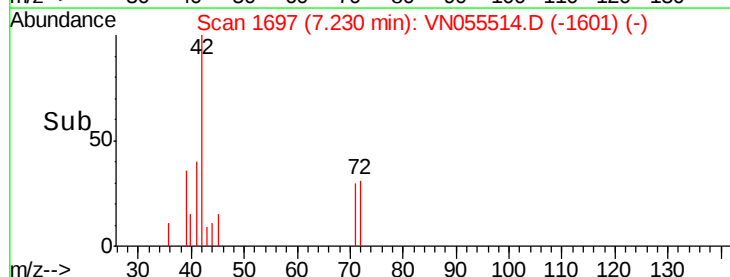
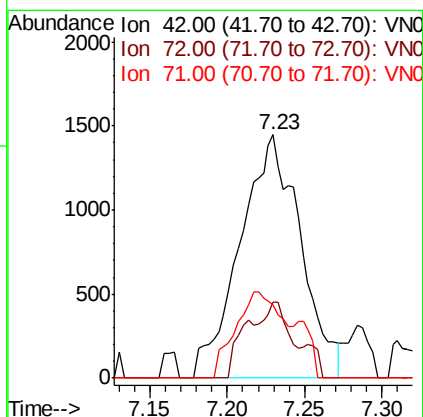
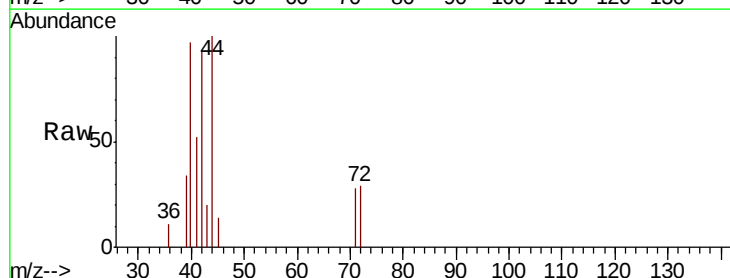
Tgt Ion: 42 Resp: 3922

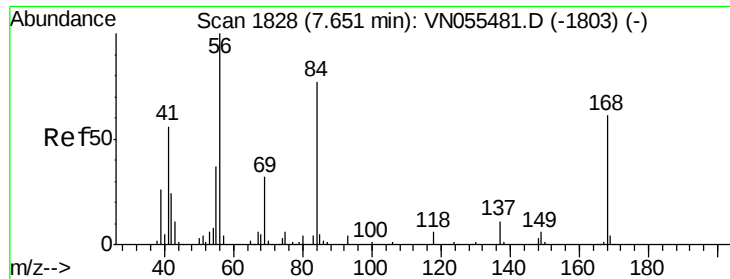
Ion Ratio Lower Upper

42 100

72 7.8 31.0 46.6#

71 0.0 29.4 44.2#

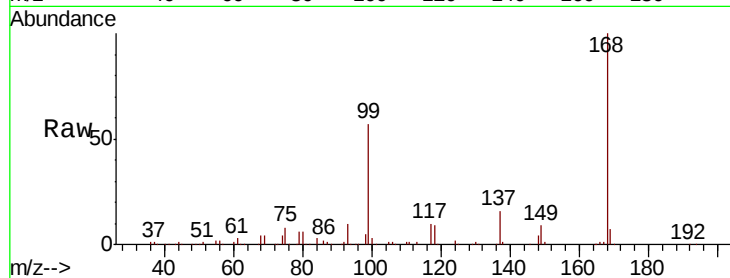




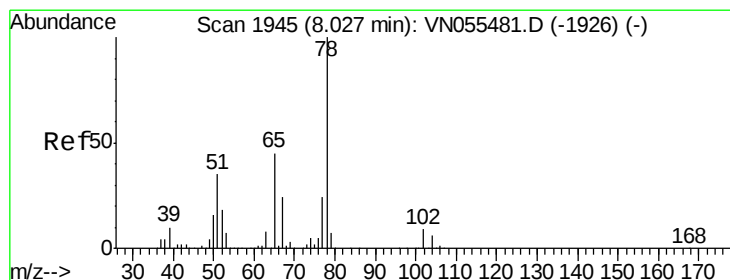
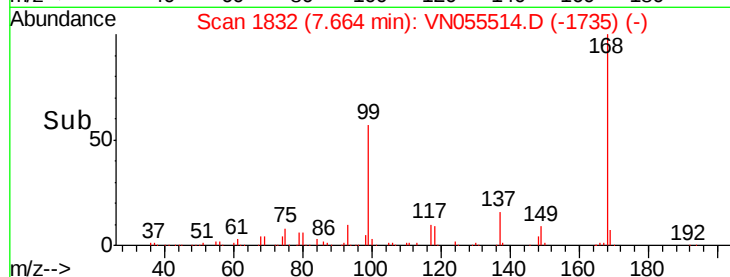
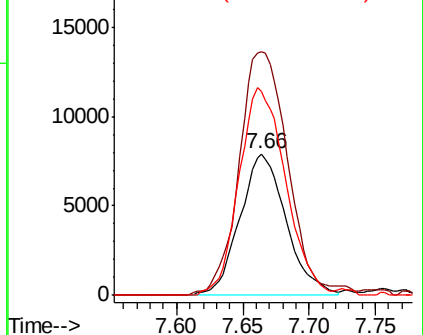
#31
Cyclohexane
Concen: 0.882 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 19282
Ion Ratio Lower Upper
56 100
69 172.4 26.0 39.0#
84 144.3 61.9 92.9#

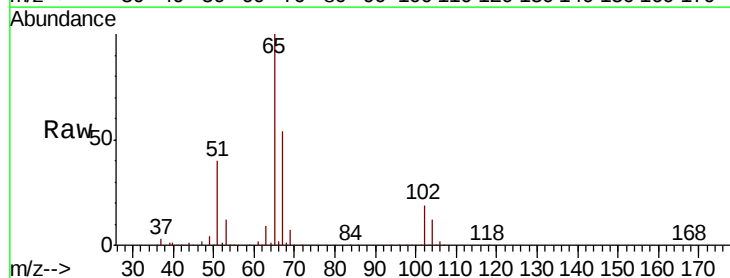


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

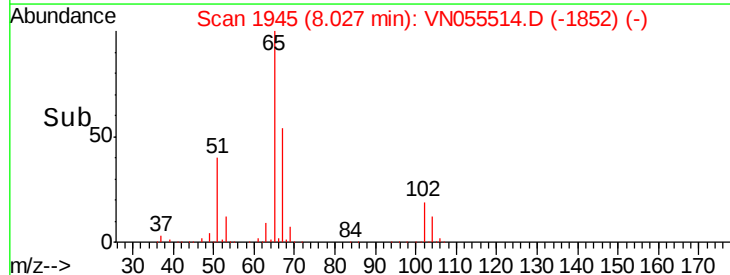
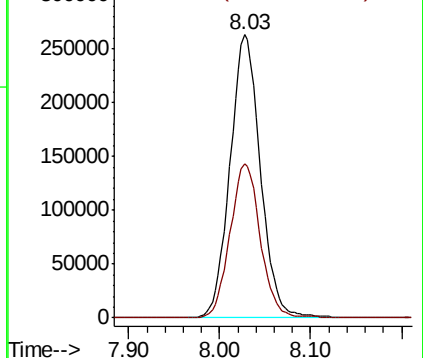


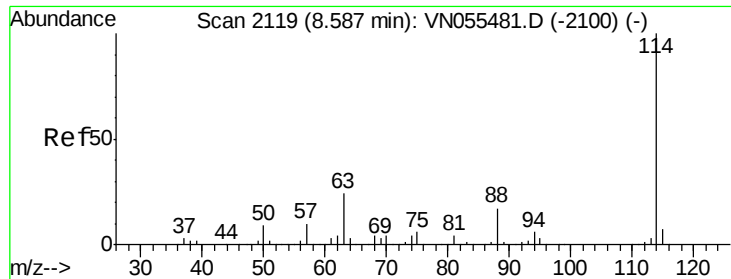
#33
1,2-Dichloroethane-d4
Concen: 44.989 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Tgt Ion: 65 Resp: 609143
Ion Ratio Lower Upper
65 100
67 54.3 0.0 109.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

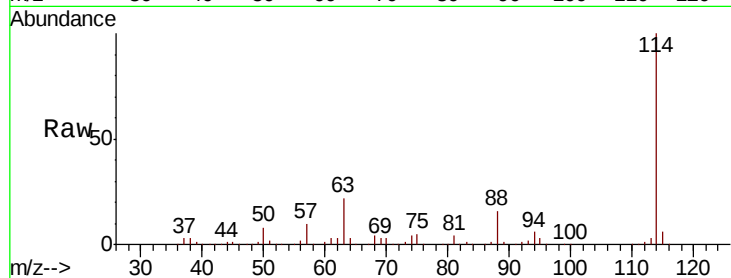




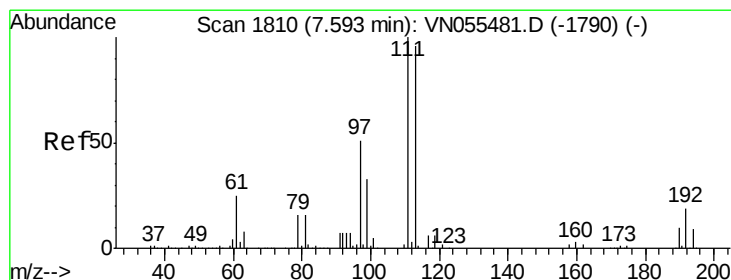
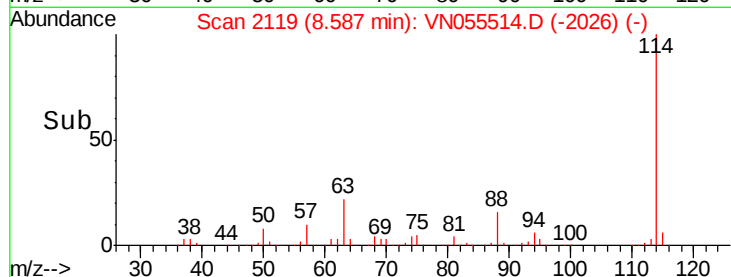
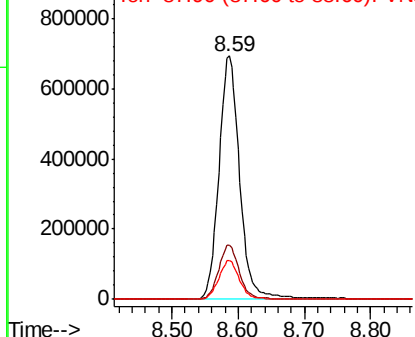
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055514.D
 Acq: 9 May 2019 23:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1509499
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 47.4
 88 16.0 0.0 34.0

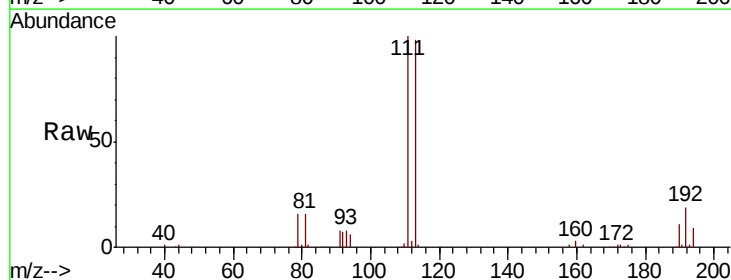


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

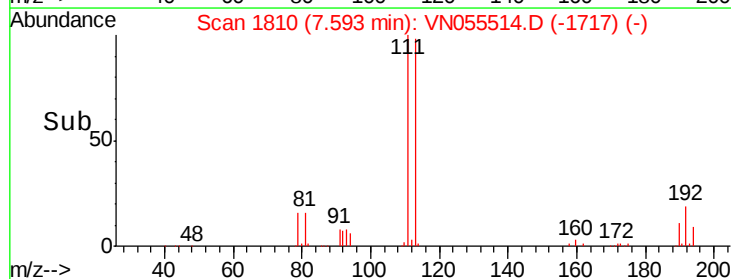
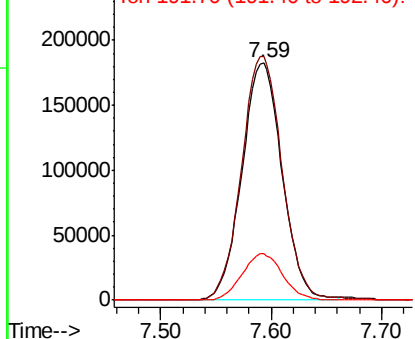


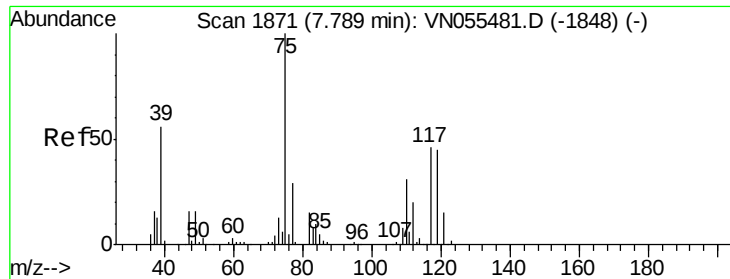
#35
 Dibromofluoromethane
 Concen: 47.339 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055514.D
 Acq: 9 May 2019 23:09

Tgt Ion:113 Resp: 460958
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.9 124.3
 192 19.9 15.6 23.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

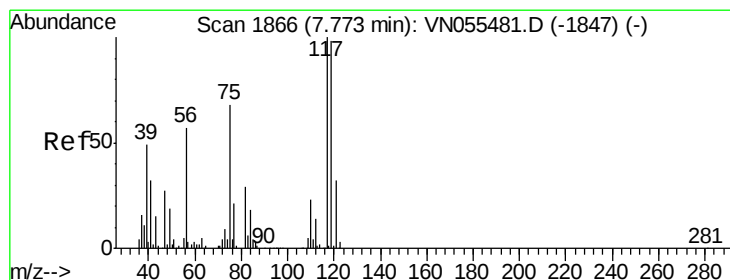
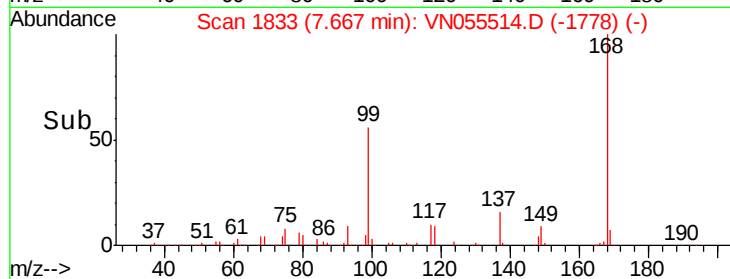
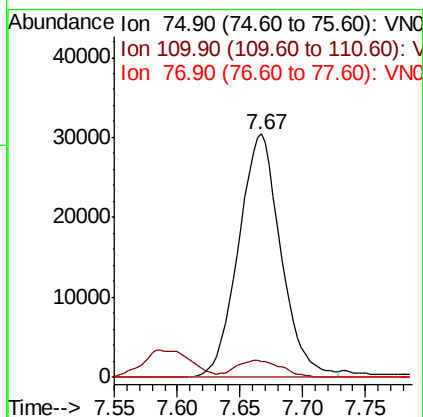
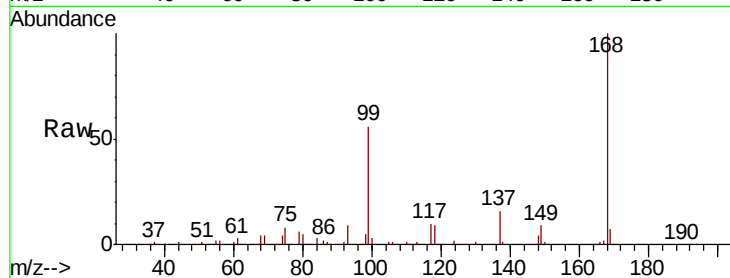




#36
 1,1-Dichloropropene
 Concen: 4.812 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055514.D
 Acq: 9 May 2019 23:09

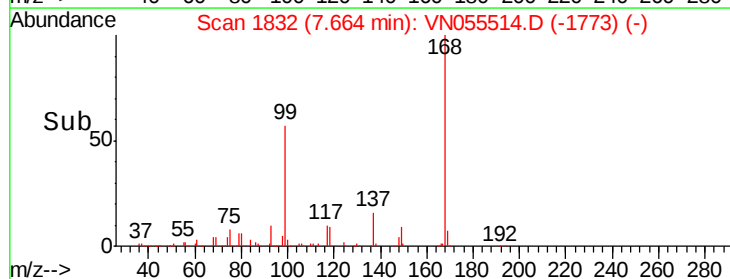
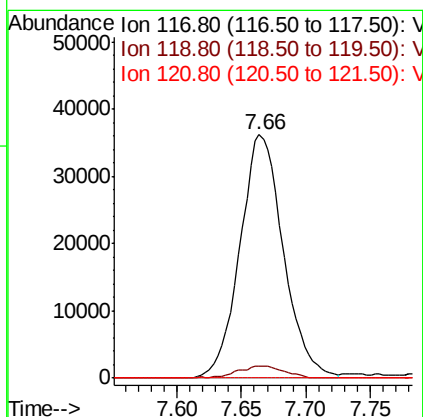
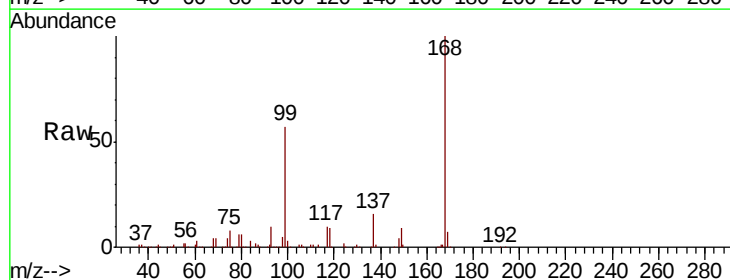
Instrument :
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 ClientSampleId :

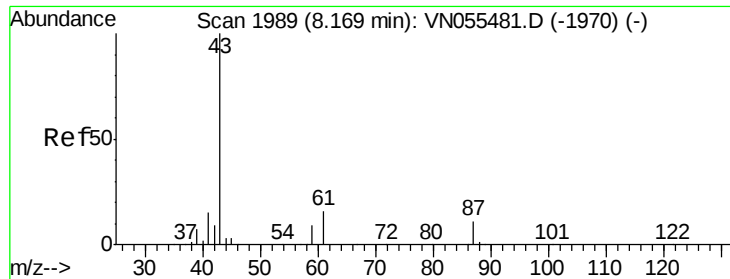
Tot Ion: 75 Resp: 71560
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.1 48.3#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 6.790 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055514.D
 Acq: 9 May 2019 23:09

Tgt Ion: 117 Resp: 85021
 Ion Ratio Lower Upper
 117 100
 119 4.9 77.8 116.6#
 121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 1.018 ug/l

RT: 8.31 min Scan# 2033

Delta R.T. 0.14 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

Instrument :

MSVOA_N

ClientSampleId :

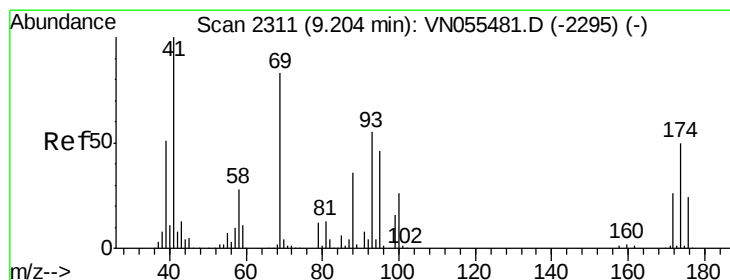
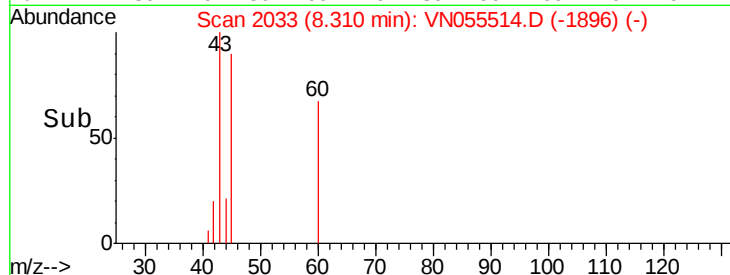
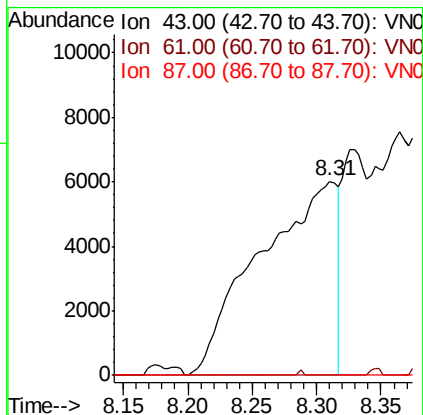
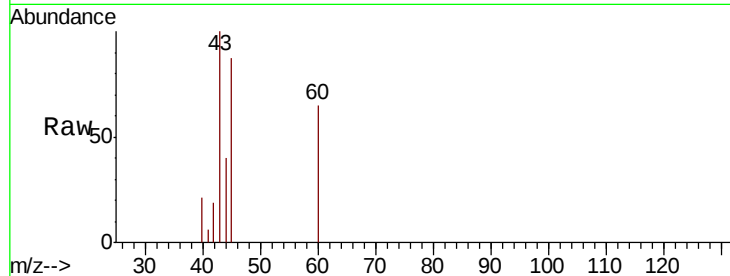
Tot Ion: 43 Resp: 25083

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

87 0.0 9.0 13.6#



#49

1,4-Dioxane

Concen: 0.268 ug/l

RT: 8.95 min Scan# 2233

Delta R.T. -0.25 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

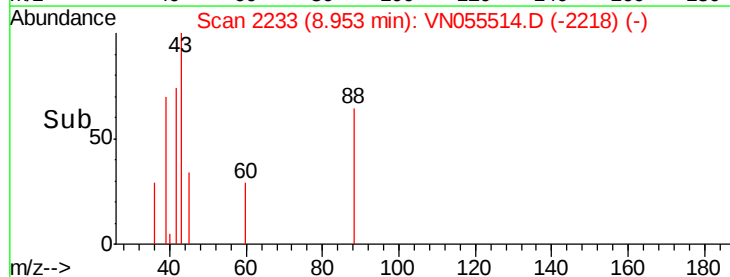
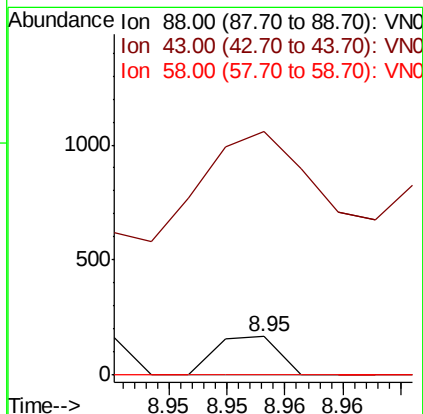
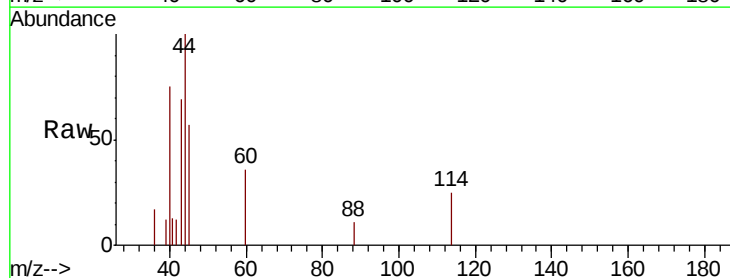
Tgt Ion: 88 Resp: 62

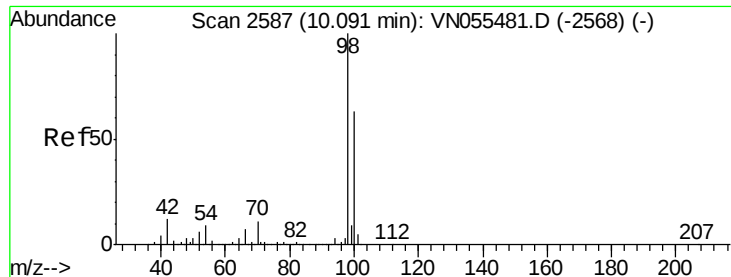
Ion Ratio Lower Upper

88 100

43 506.5 27.8 41.8#

58 0.0 61.8 92.6#





#50

Toluene-d8

Concen: 47.973 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

Instrument :

MSVOA_N

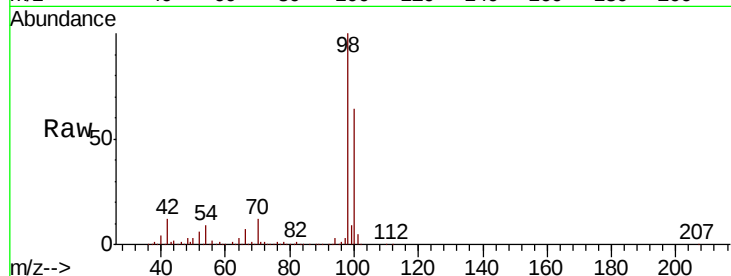
ClientSampleId :

Tot Ion: 98 Resp: 1820368

Ion Ratio Lower Upper

98 100

100 63.8 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN055481.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN055481.D (-2568) (-)

10.09

800000

600000

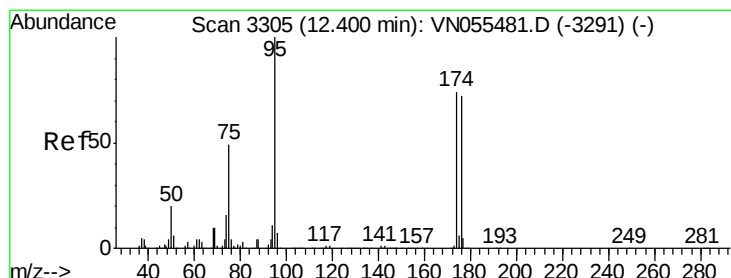
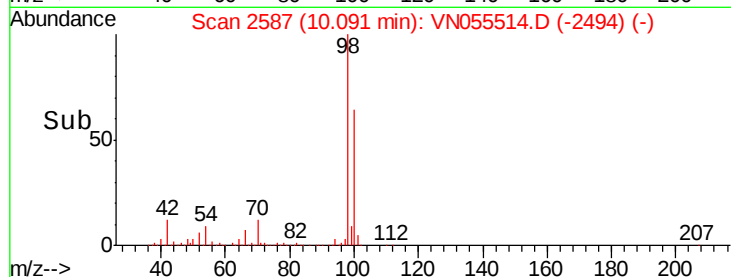
400000

200000

0

10.00 10.10 10.20 10.30

Time-->



#62

4-Bromofluorobenzene

Concen: 41.782 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

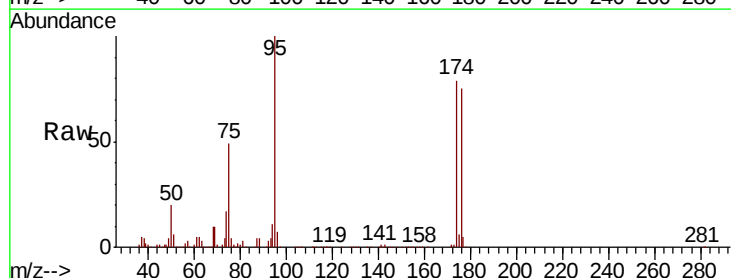
Tgt Ion: 95 Resp: 534589

Ion Ratio Lower Upper

95 100

174 78.9 0.0 152.2

176 75.7 0.0 147.8



Abundance Ion 94.90 (94.60 to 95.60): VN055481.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055481.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055481.D (-3291) (-)

400000

300000

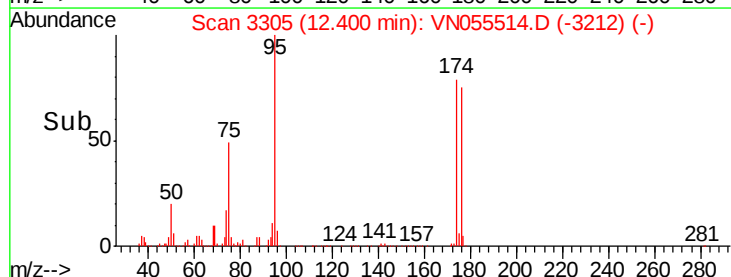
200000

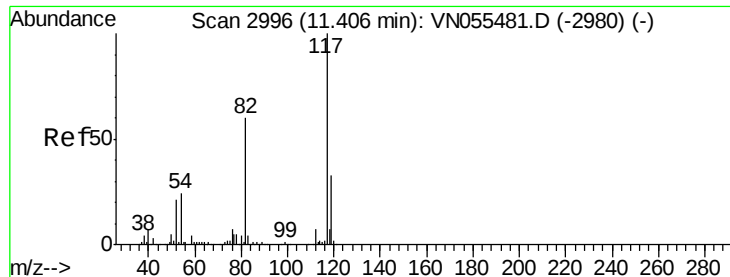
100000

0

12.30 12.40 12.50

Time-->

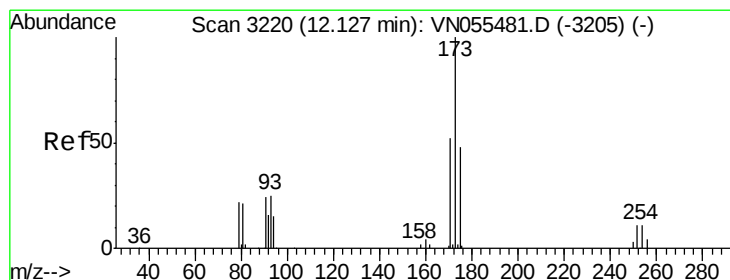
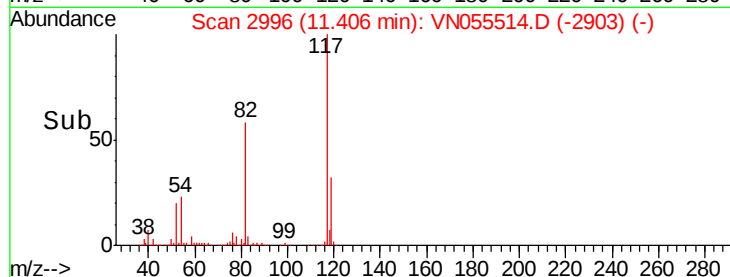
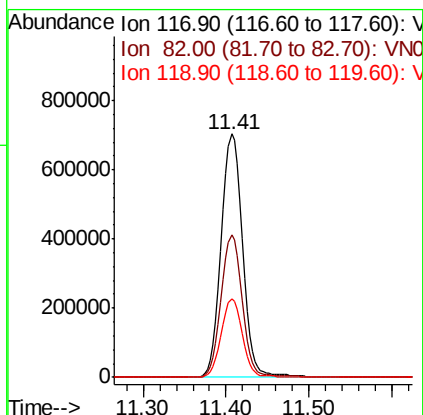
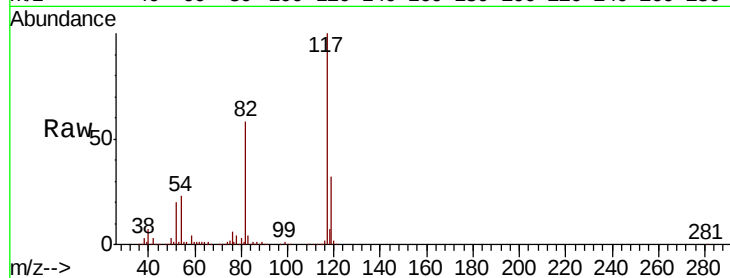




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

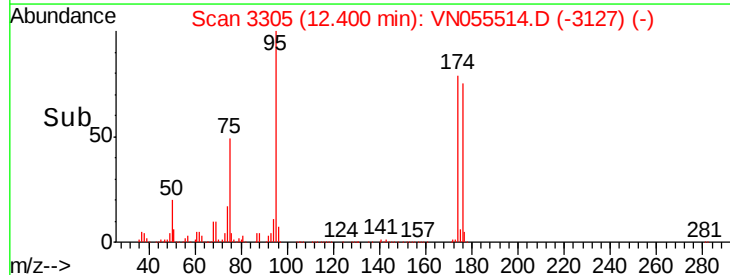
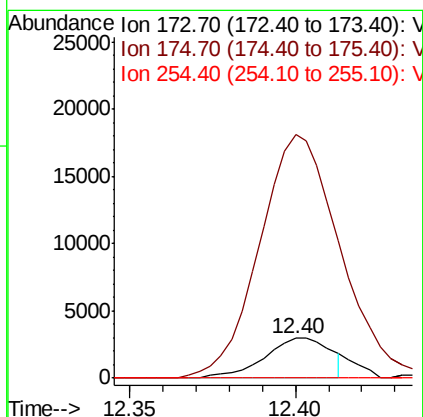
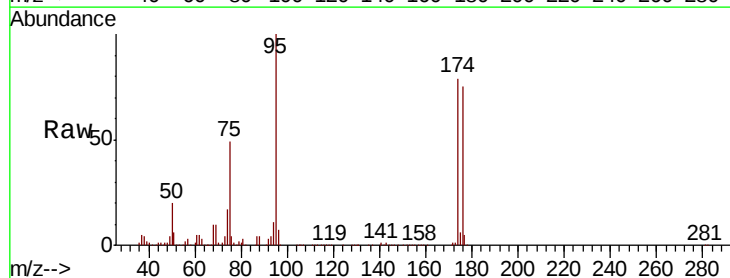
Instrument :
MSVOA_N
ClientSampled :

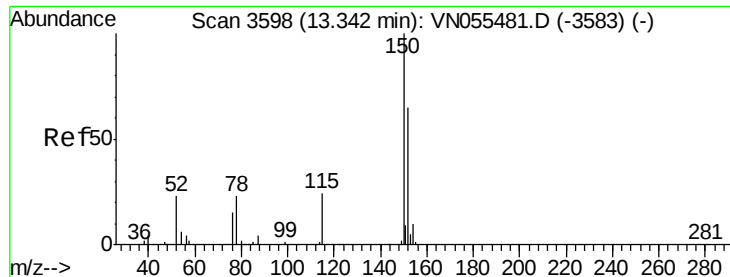
Tot Ion:117 Resp: 1261665
Ion Ratio Lower Upper
117 100
82 58.3 48.0 72.0
119 32.0 26.0 39.0



#71
Bromoform
Concen: 0.687 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Tgt Ion:173 Resp: 4144
Ion Ratio Lower Upper
173 100
175 635.2 24.1 72.4#
254 0.0 0.1 0.1#



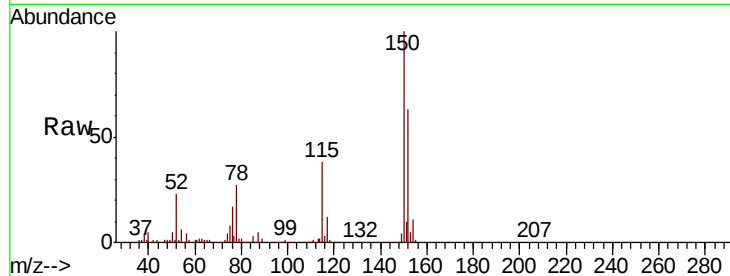


#72

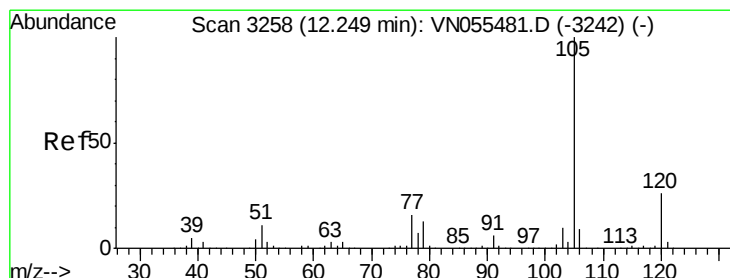
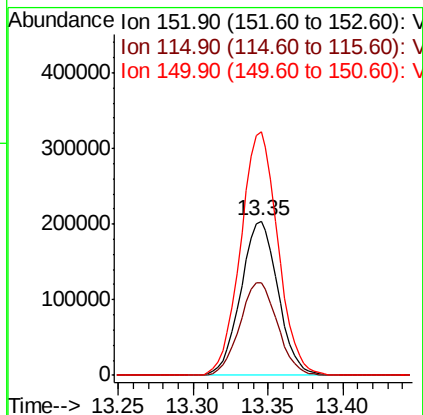
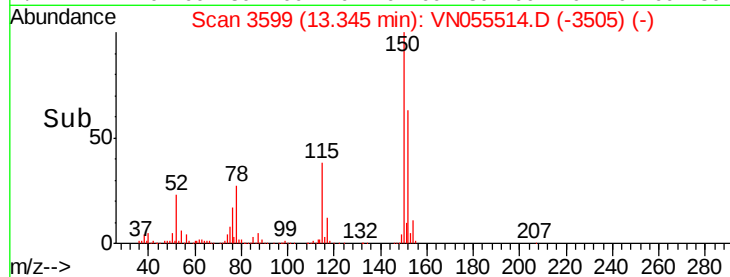
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.1	90.5
150	158.2	0.0	355.0



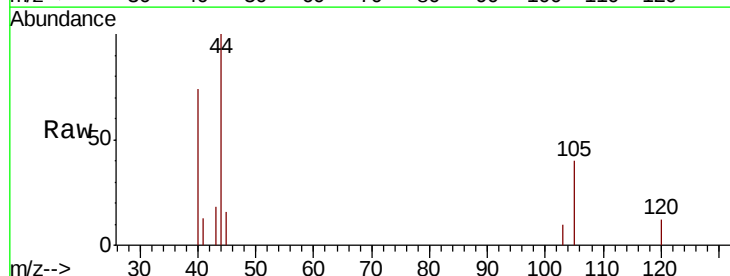
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



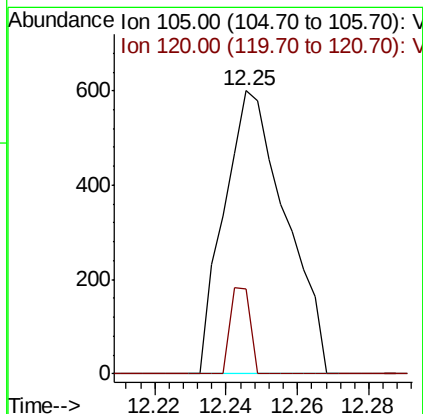
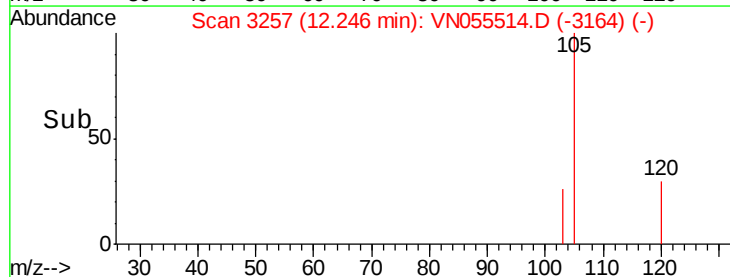
#73

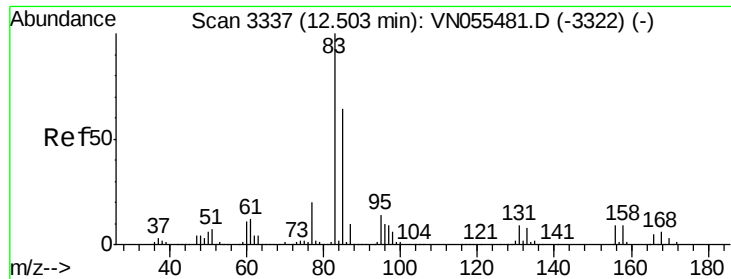
Isopropylbenzene
Concen: Below Cal
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	9.8	13.0	39.0#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3340

Delta R.T. 0.01 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

Instrument :

MSVOA_N

ClientSampleId :

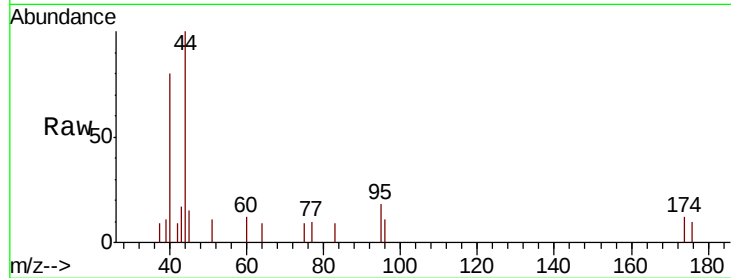
Tot Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

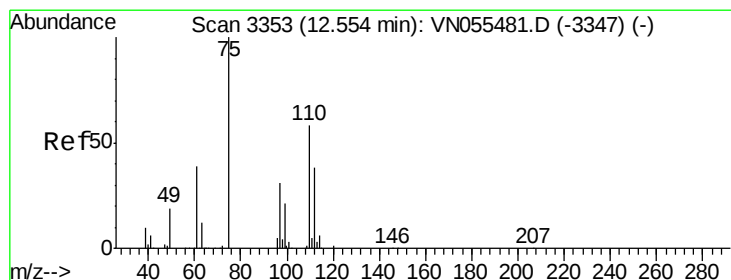
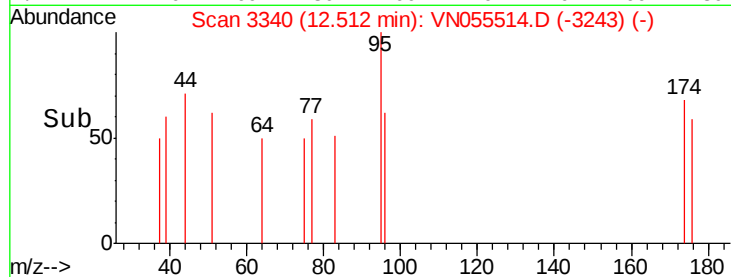
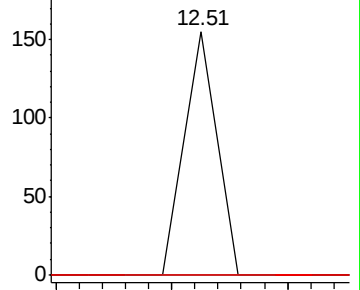
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 27.421 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055514.D

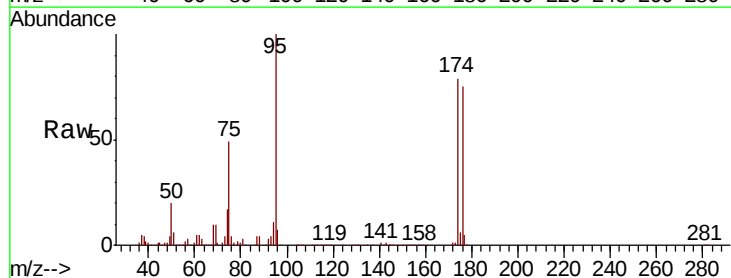
Acq: 9 May 2019 23:09

Tgt Ion: 75 Resp: 263601

Ion Ratio Lower Upper

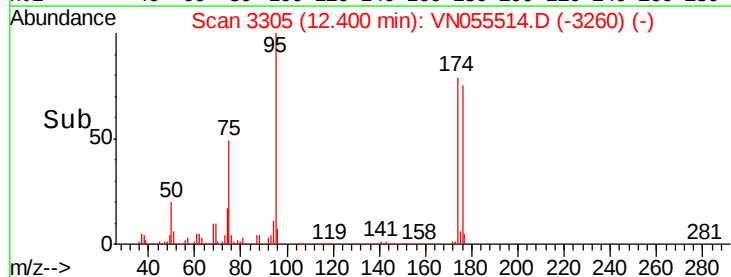
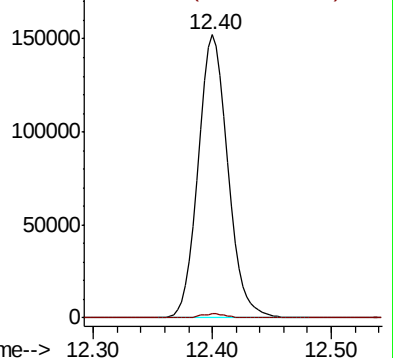
75 100

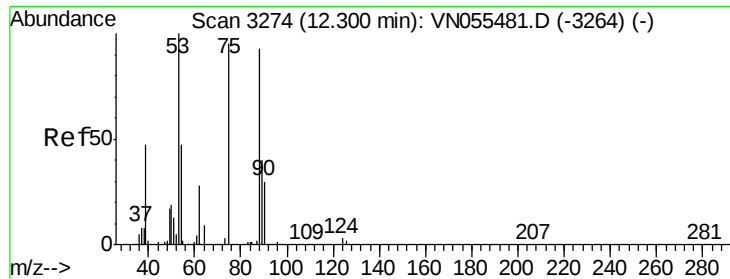
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

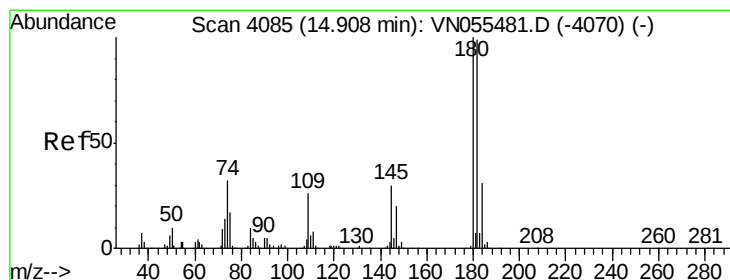
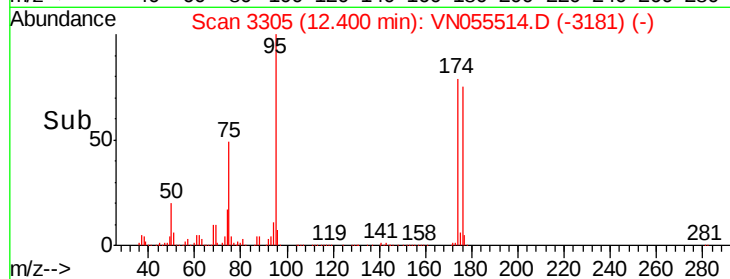
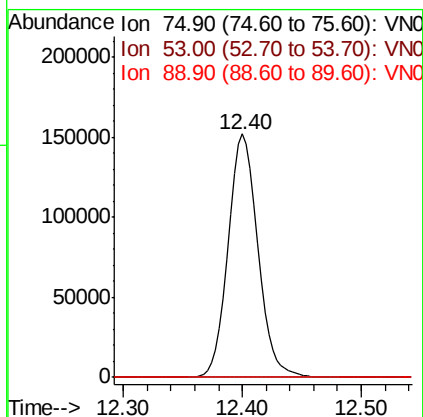
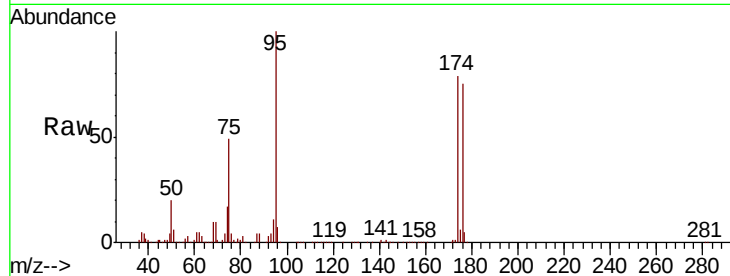




#81
trans-1,4-Dichloro-2-butene
Concen: 101.181 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

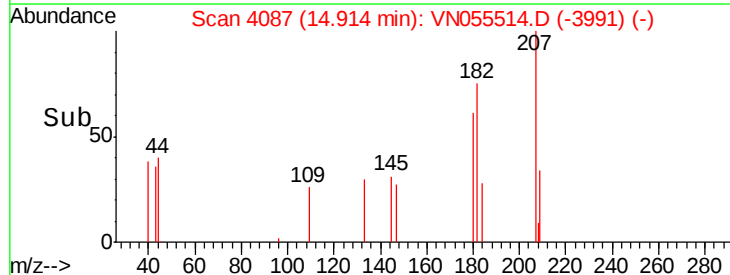
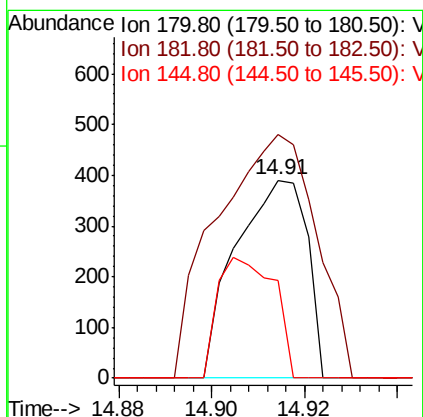
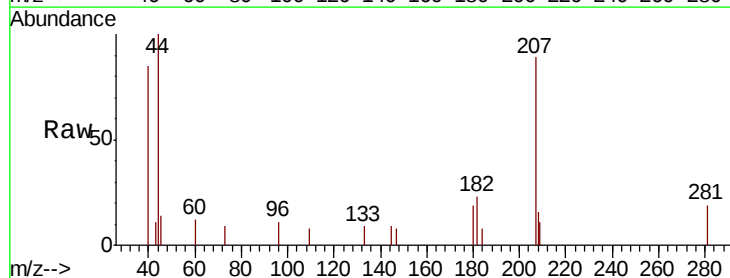
Instrument :
MSVOA_N
ClientSampleId :

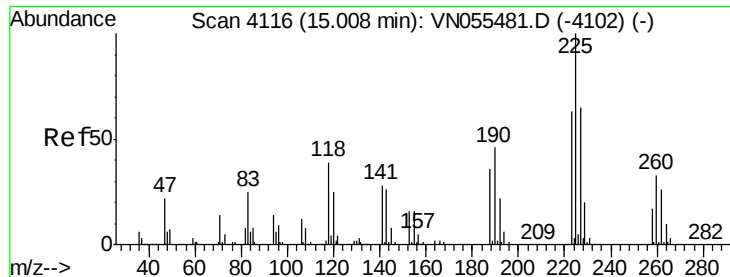
Tot Ion: 75 Resp: 263601
Ion Ratio Lower Upper
75 100
53 0.1 86.5 129.7#
89 0.0 35.7 53.5#



#93
1,2,4-Trichlorobenzene
Concen: 3.279 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.01 min
Lab File: VN055514.D
Acq: 9 May 2019 23:09

Tgt Ion:180 Resp: 413
Ion Ratio Lower Upper
180 100
182 173.1 48.7 146.1#
145 48.9 15.3 45.9#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

Instrument :

MSVOA_N

ClientSampleId :

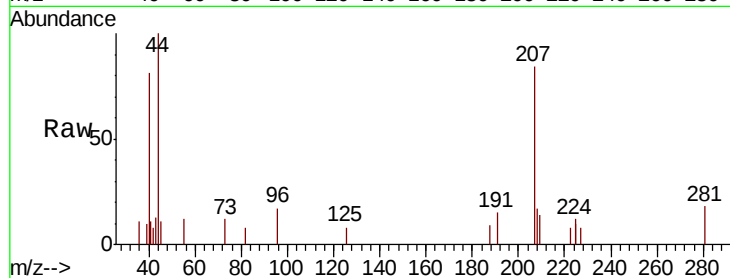
Tot Ion:225 Resp: 372

Ion Ratio Lower Upper

225 100

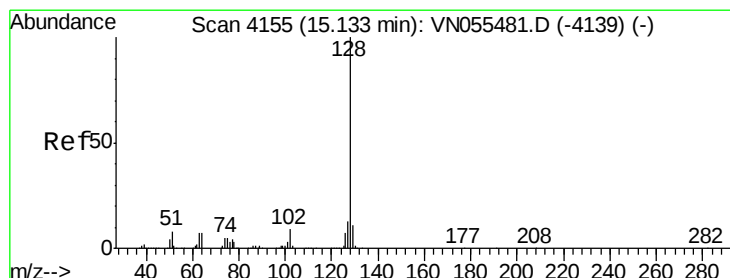
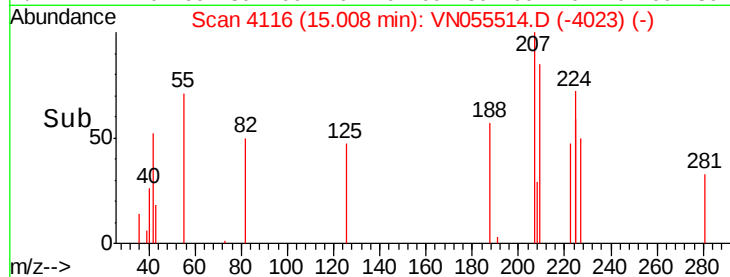
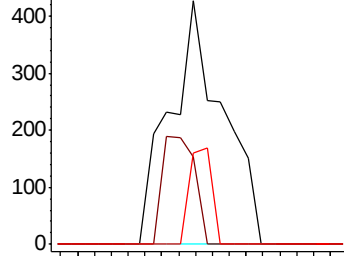
223 27.4 31.4 94.3#

227 17.2 32.0 96.0#



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

15.01



#95

Naphthalene

Concen: 3.039 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

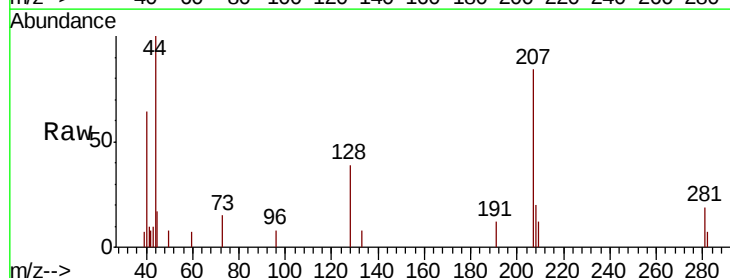
Tgt Ion:128 Resp: 1598

Ion Ratio Lower Upper

128 100

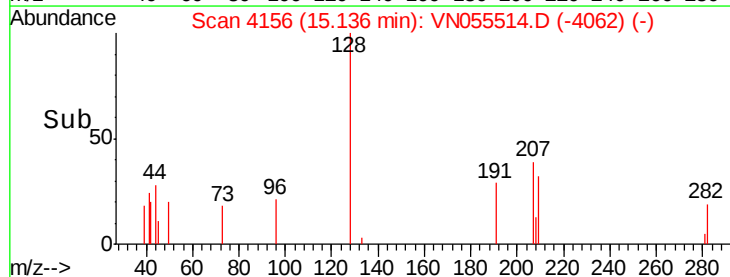
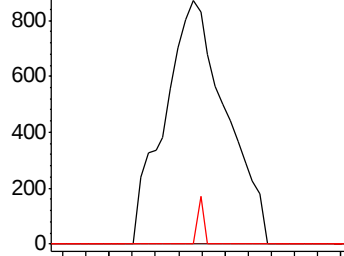
127 0.0 10.0 15.0#

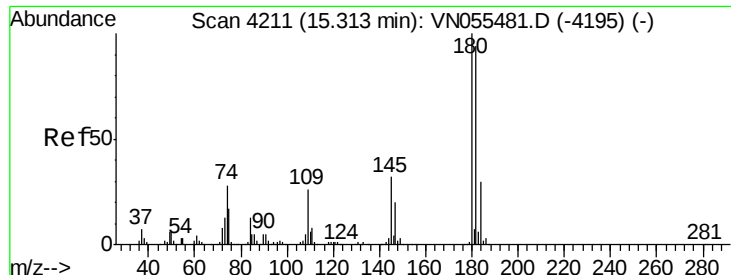
129 2.1 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

15.14





#96

1,2,3-Trichlorobenzene

Concen: 2.536 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055514.D

Acq: 9 May 2019 23:09

Instrument :

MSVOA_N

ClientSampleId :

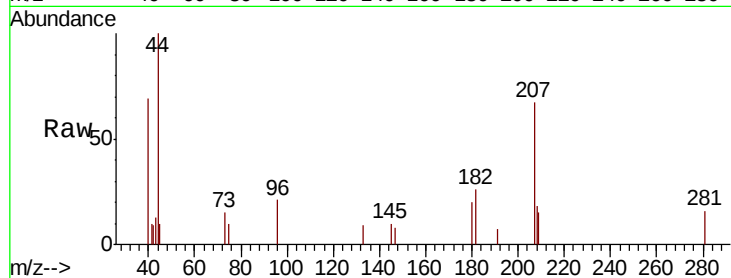
Tot Ion:180 Resp: 673

Ion Ratio Lower Upper

180 100

182 120.5 47.1 141.3

145 41.2 15.8 47.4



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

