

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120419\
 Data File : VN059487.D
 Acq On : 4 Dec 2019 15:49
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 05 00:47:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

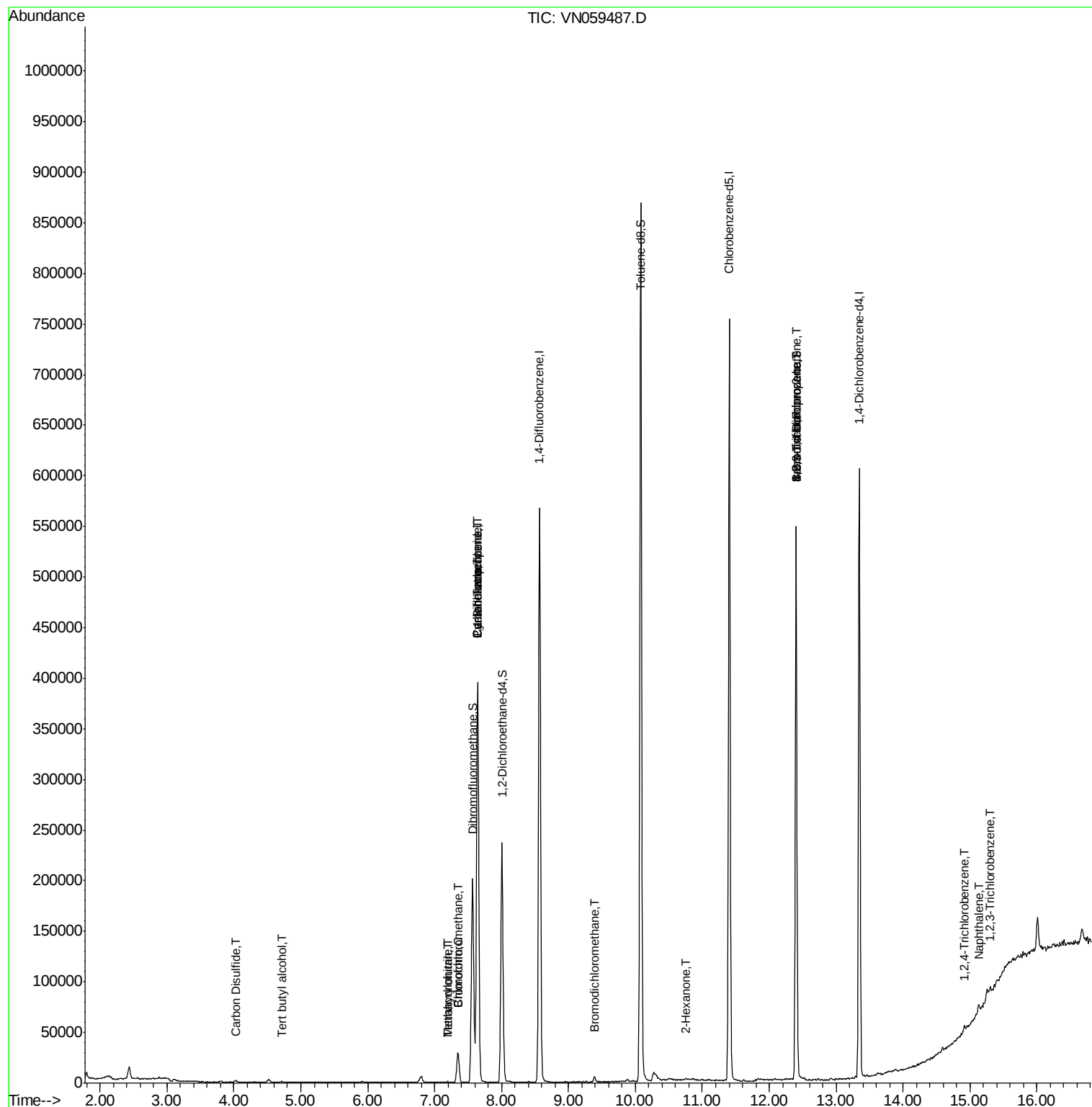
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	326736	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	509938	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	446224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	165155	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	200005	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
35) Dibromofluoromethane	7.57	113	157154	49.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.96%	
50) Toluene-d8	10.08	98	619215	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
62) 4-Bromofluorobenzene	12.40	95	196761	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	
Target Compounds				Qvalue		
11) Tert butyl alcohol	4.71	59	427	0.558	ug/l #	73
16) Acetone	3.78	43	175	Below Cal	#	44
17) Carbon Disulfide	4.02	76	3109	0.269	ug/l #	76
20) Methylene Chloride	4.52	84	1277	Below Cal	#	85
28) Bromochloromethane	7.35	49	2493	1.482	ug/l #	15
29) Tetrahydrofuran	7.20	42	559	0.288	ug/l #	34
30) Chloroform	7.35	83	32140	4.717	ug/l	98
31) Cyclohexane	7.64	56	6067	0.887	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	25226	4.754	ug/l #	49
38) Carbon Tetrachloride	7.64	117	30814	6.037	ug/l #	17
41) Methacrylonitrile	7.19	41	621	0.259	ug/l #	100
47) Bromodichloromethane	9.39	83	4030	0.778	ug/l	90
59) 2-Hexanone	10.75	43	1213	0.308	ug/l	73
71) Bromoform	12.40	173	1167	0.427	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	97638	23.777	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	97638	62.399	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1440	0.422	ug/l	88
94) Hexachlorobutadiene	15.01	225	271	Below Cal		67
95) Naphthalene	15.13	128	7017	3.137	ug/l	99
96) 1,2,3-Trichlorobenzene	15.29	180	2102	2.554	ug/l	81

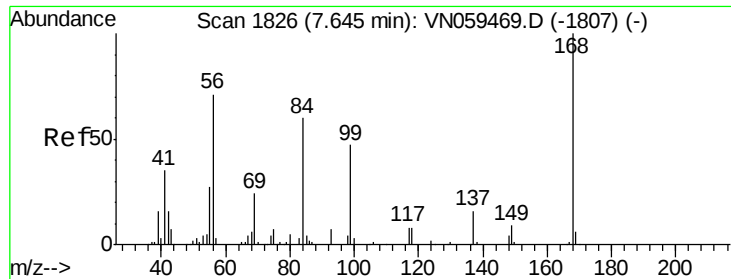
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 03 16:37:42 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059487.D

Acq: 4 Dec 2019 15:49

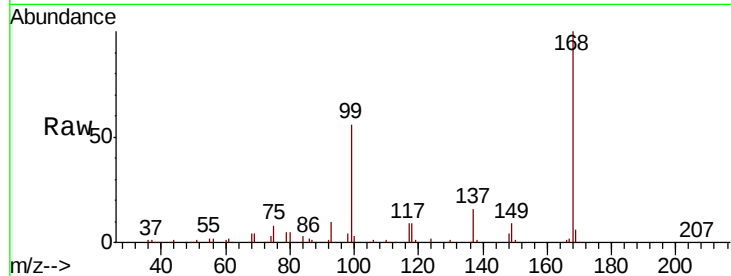
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 326736

Ion Ratio Lower Upper

168 100

99 56.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

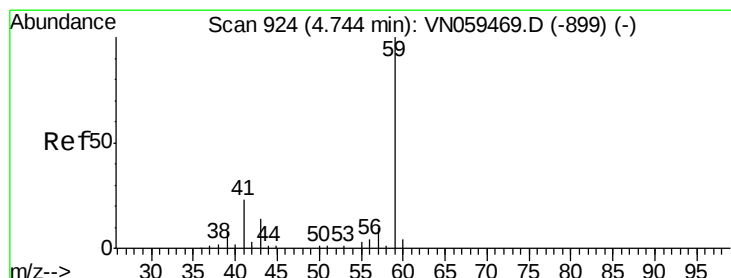
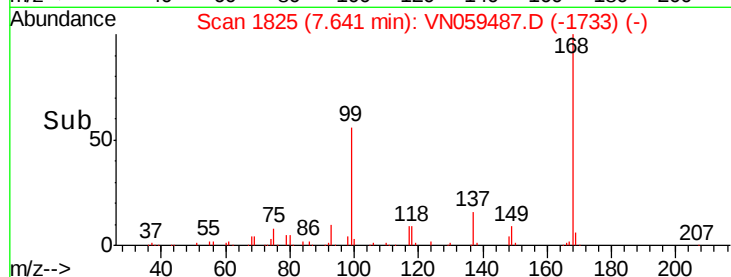
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.558 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.03 min

Lab File: VN059487.D

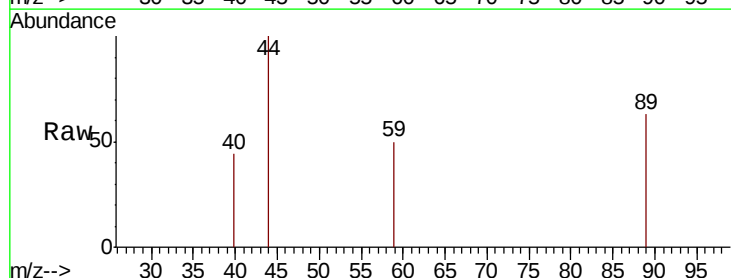
Acq: 4 Dec 2019 15:49

Tgt Ion: 59 Resp: 427

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.71

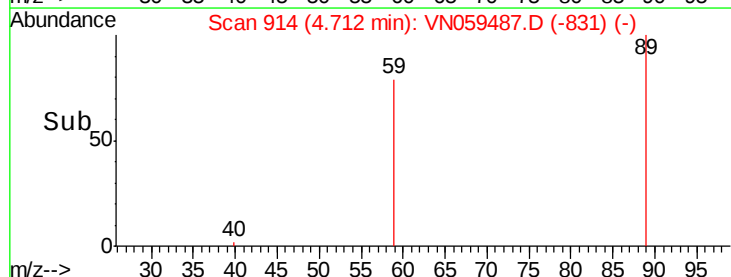
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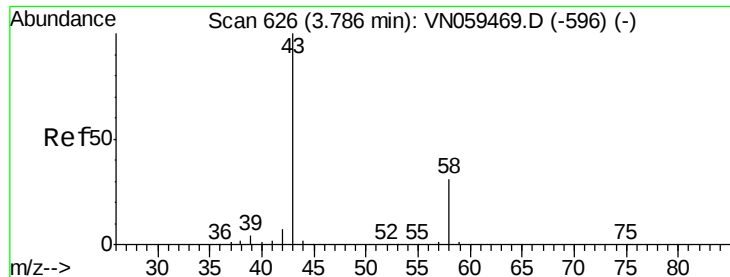
200

100

0

Time-->

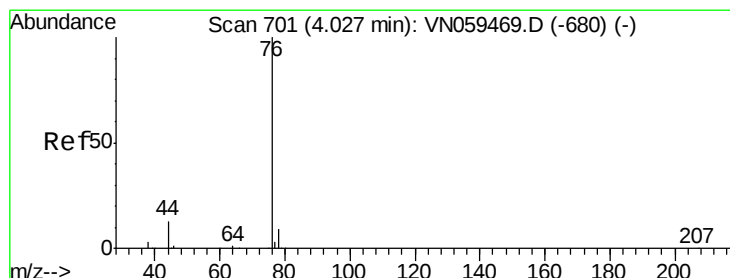
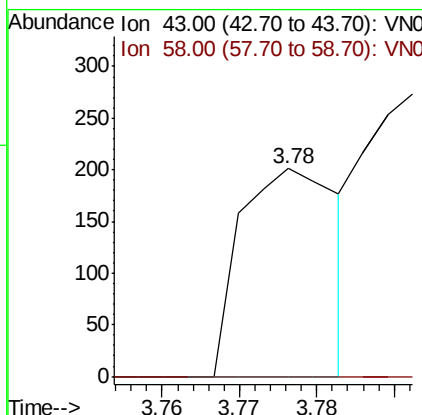
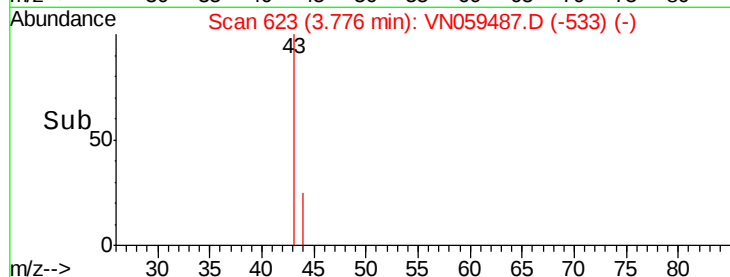
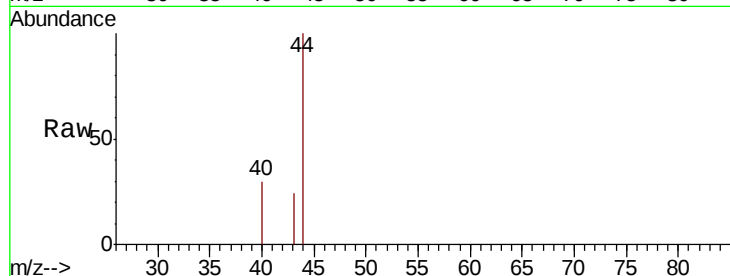




#16
Acetone
Concen: Below Cal
RT: 3.78 min Scan# 623
Delta R.T. -0.01 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

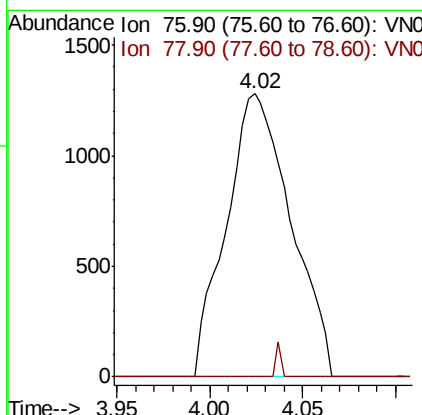
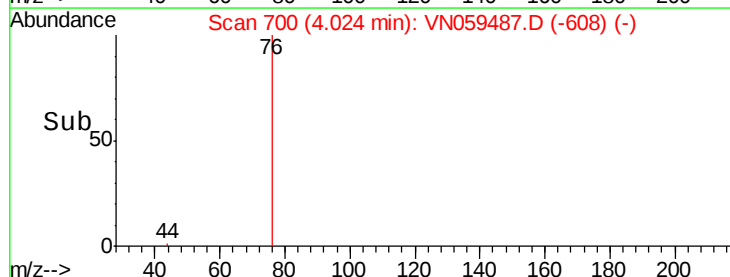
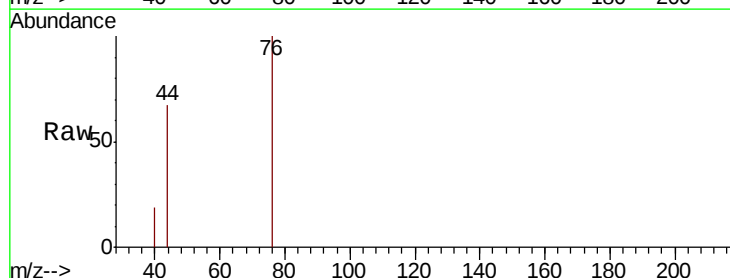
Instrument :
MSVOA_N
ClientSampled :

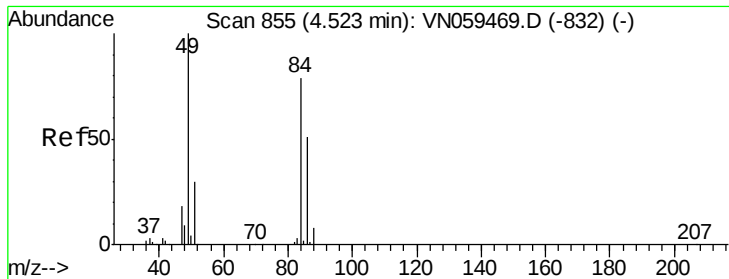
Tot Ion: 43 Resp: 175
Ion Ratio Lower Upper
43 100
58 0.0 24.9 37.3#



#17
Carbon Disulfide
Concen: 0.269 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion: 76 Resp: 3109
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

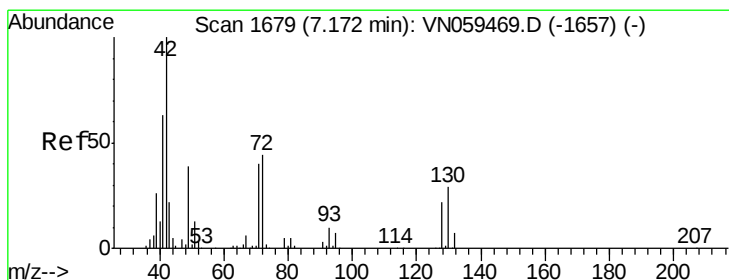
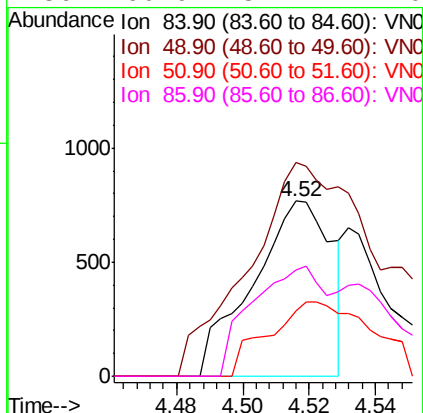
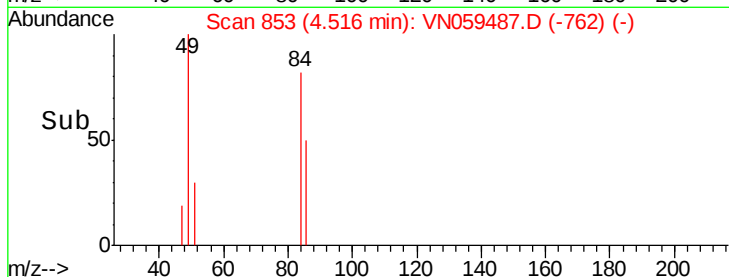
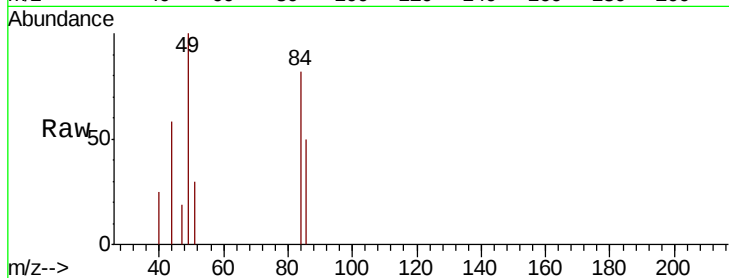




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

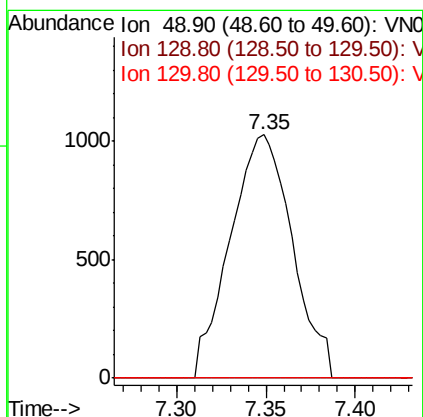
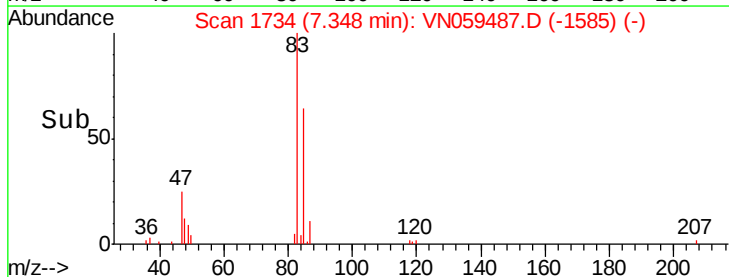
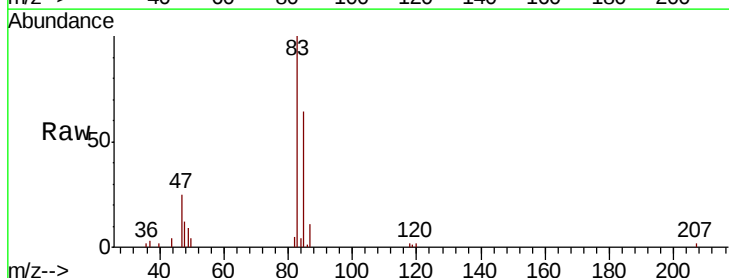
Instrument :
MSVOA_N
ClientSampleId :

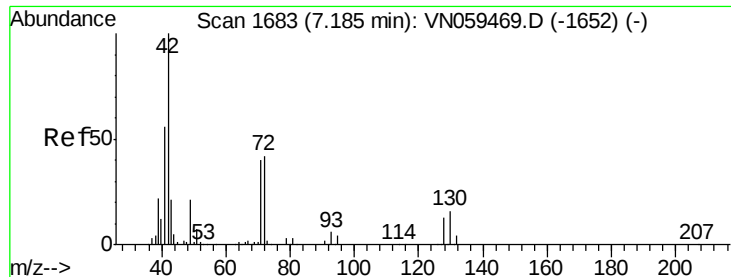
Tot Ion: 84 Resp: 1277
Ion Ratio Lower Upper
84 100
49 98.6 101.1 151.7#
51 37.2 30.7 46.1
86 60.9 51.4 77.0



#28
Bromochloromethane
Concen: 1.482 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.18 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion: 49 Resp: 2493
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 58.4 87.6#

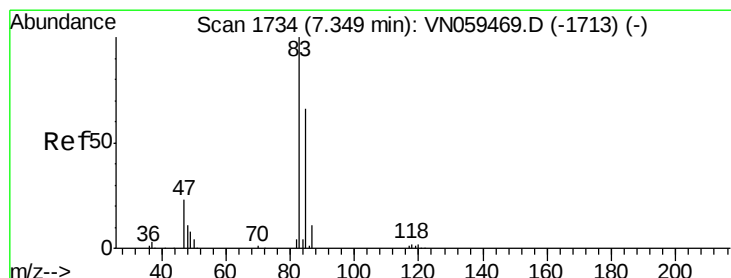
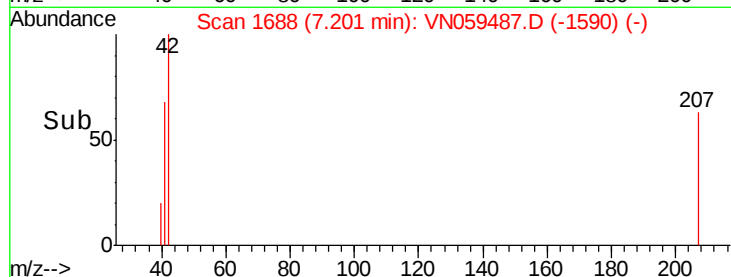
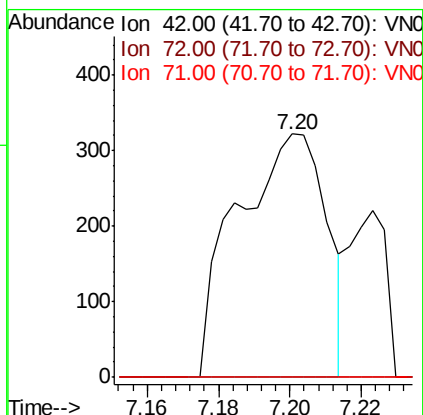
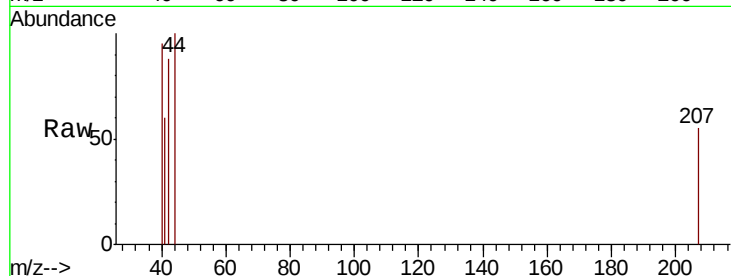




#29
Tetrahydrofuran
Concen: 0.288 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.02 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

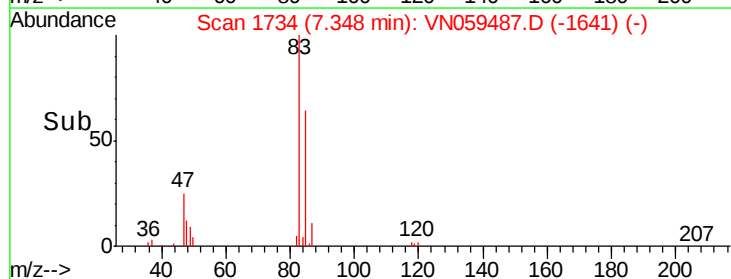
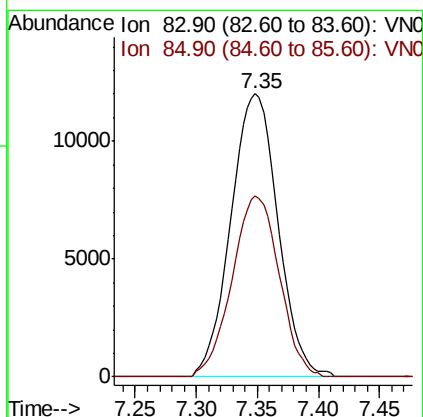
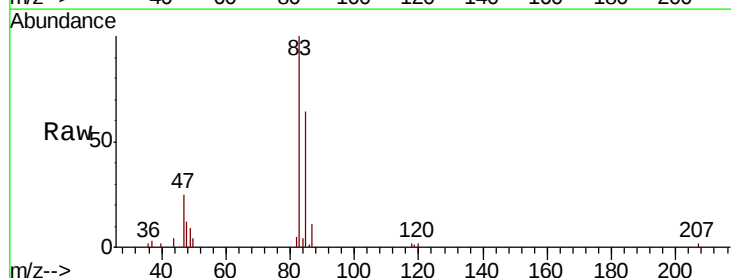
Instrument :
MSVOA_N
ClientSampleId :

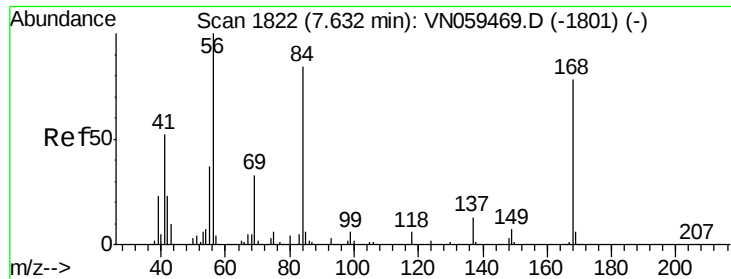
Tot Ion: 42 Resp: 559
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 0.0 32.0 48.0#



#30
Chloroform
Concen: 4.717 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion: 83 Resp: 32140
Ion Ratio Lower Upper
83 100
85 63.9 52.4 78.6

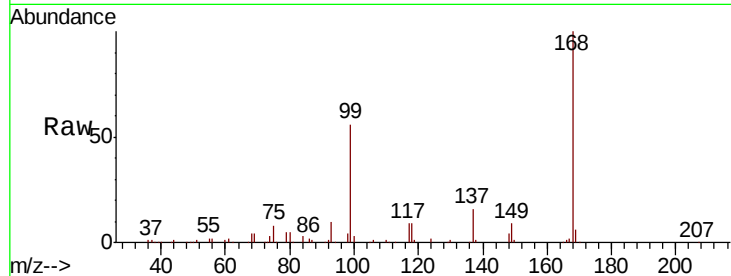




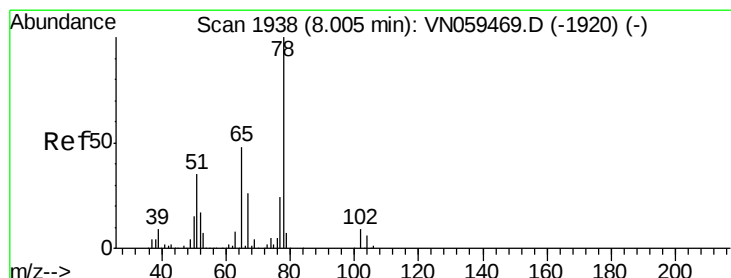
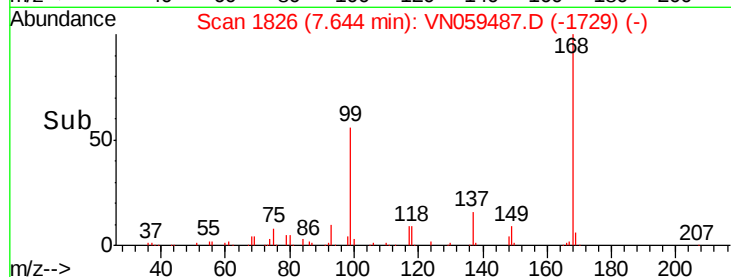
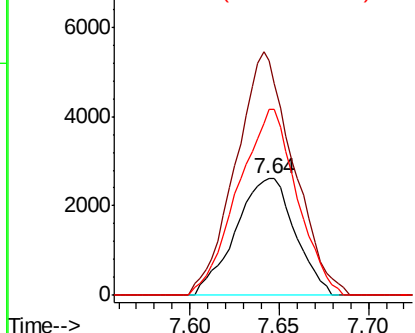
#31
Cyclohexane
Concen: 0.887 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6067
Ion Ratio Lower Upper
56 100
69 201.1 26.2 39.4#
84 159.8 66.8 100.2#

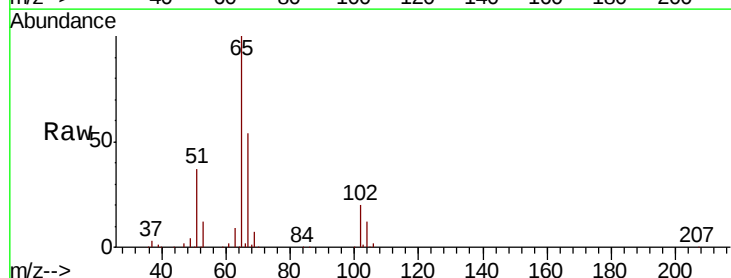


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

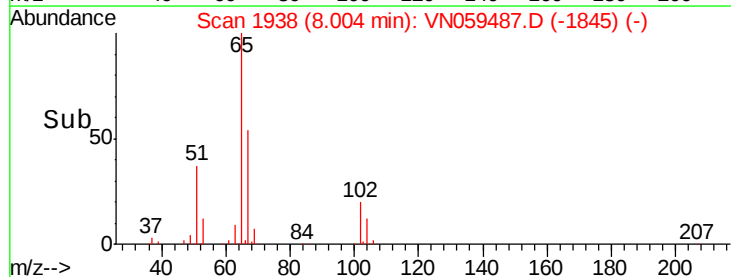
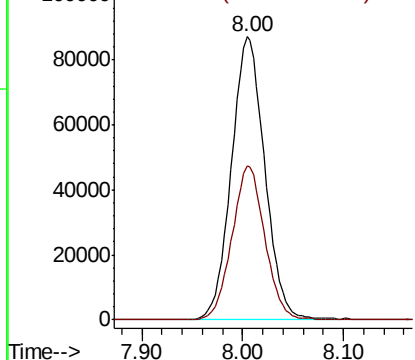


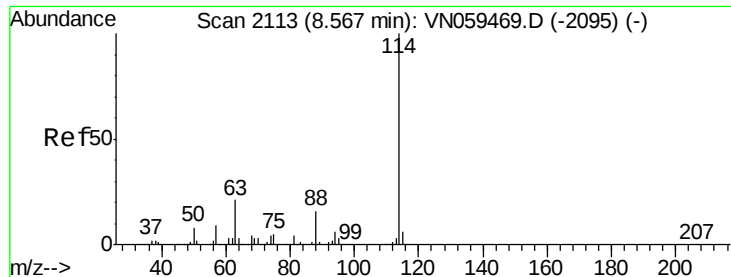
#33
1,2-Dichloroethane-d4
Concen: 49.275 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion: 65 Resp: 200005
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.4



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

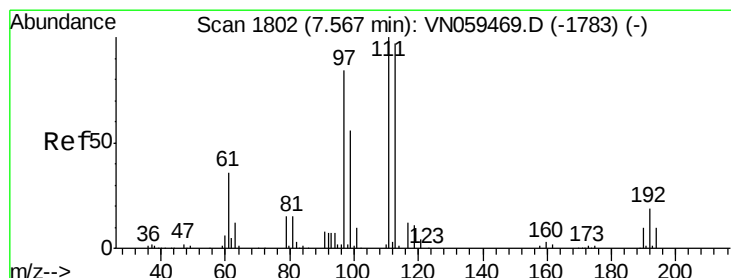
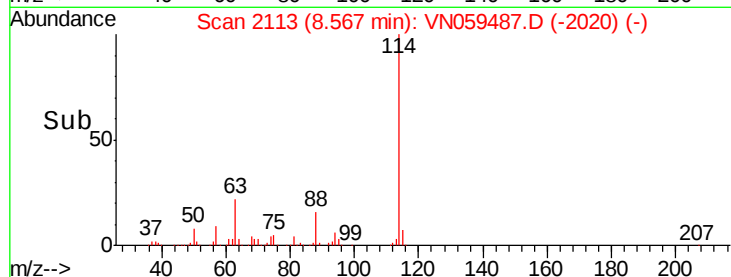
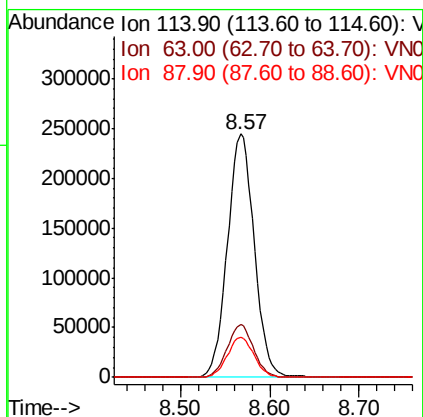
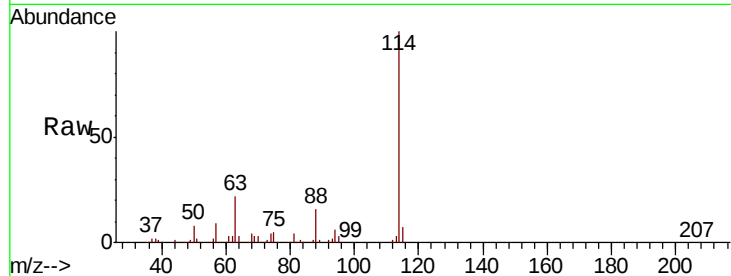




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059487.D
 Acq: 4 Dec 2019 15:49

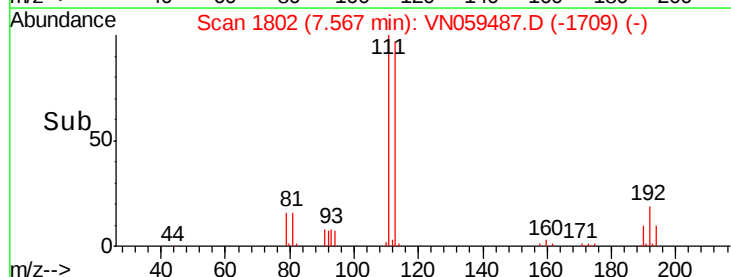
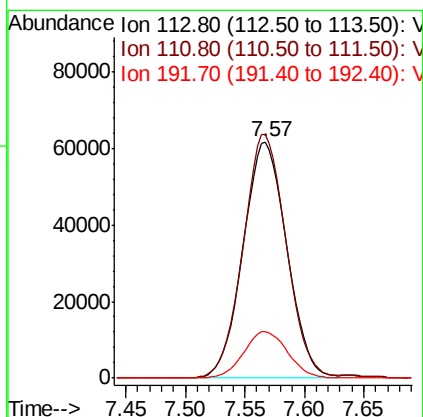
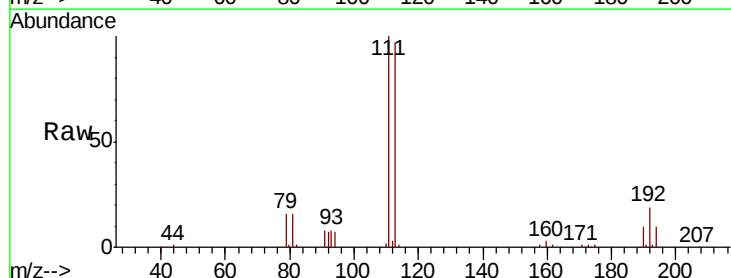
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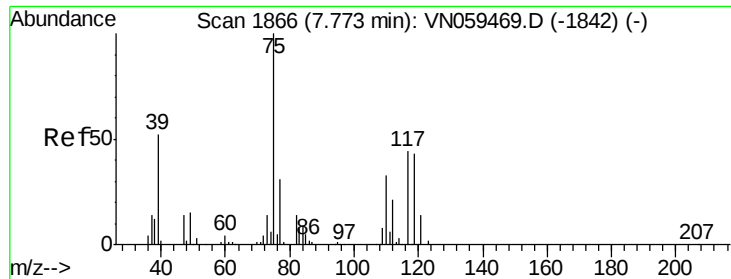
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	16.4	0.0	32.8



#35
 Dibromofluoromethane
 Concen: 49.481 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059487.D
 Acq: 4 Dec 2019 15:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.5	123.7
192	19.8	16.1	24.1

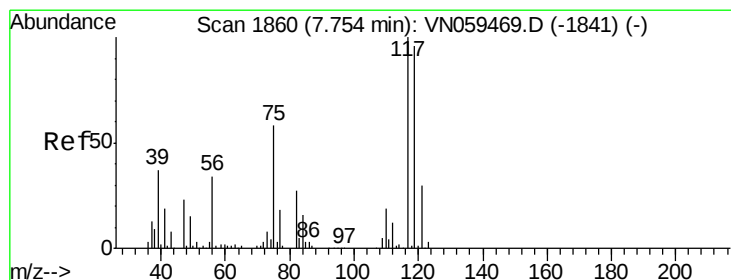
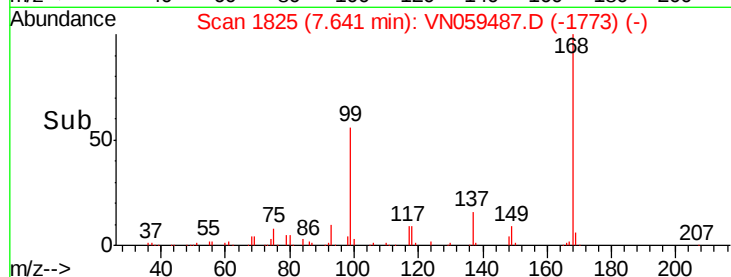
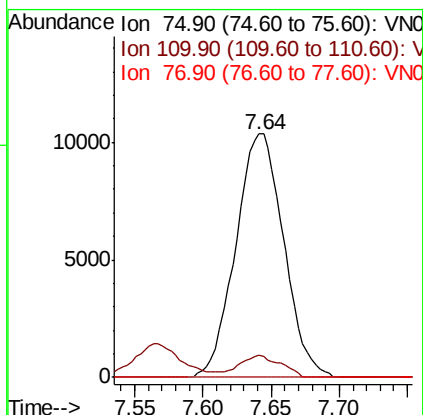
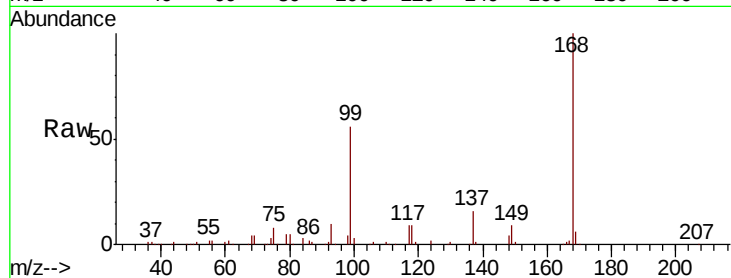




#36
 1,1-Dichloropropene
 Concen: 4.754 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059487.D
 Acq: 4 Dec 2019 15:49

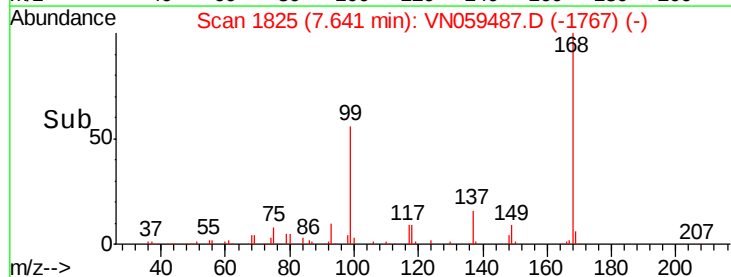
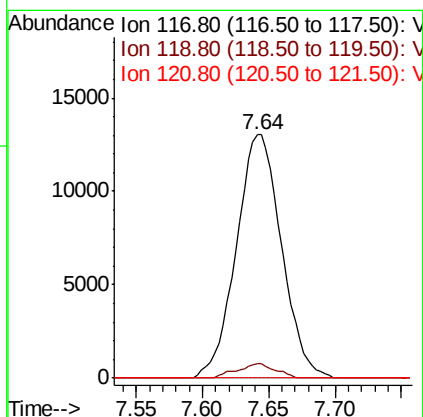
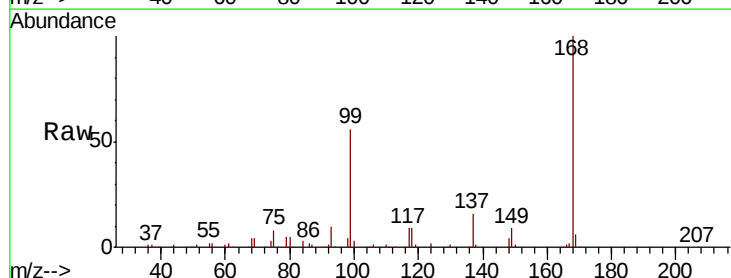
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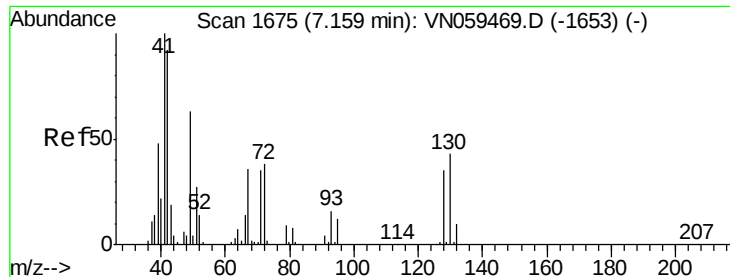
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.9	50.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.037 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059487.D
 Acq: 4 Dec 2019 15:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	76.6	114.8#
121	0.0	24.0	36.0#

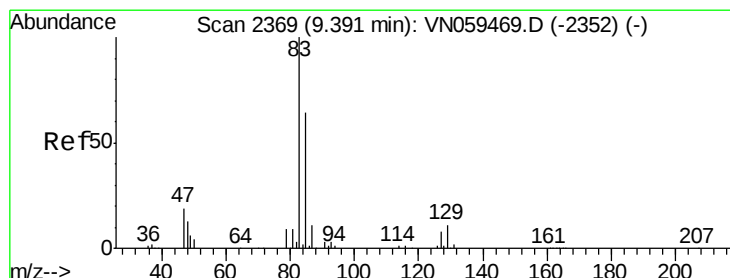
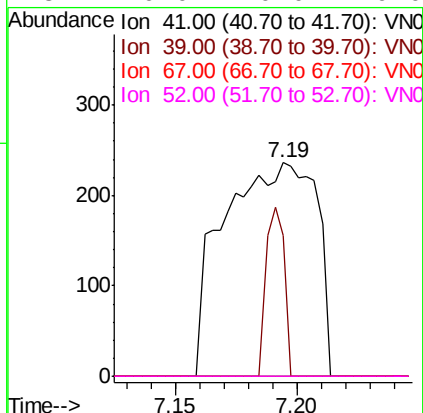
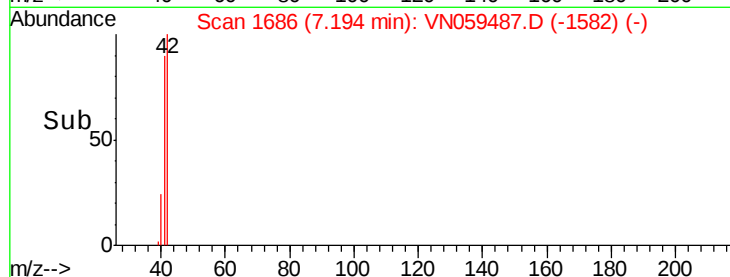
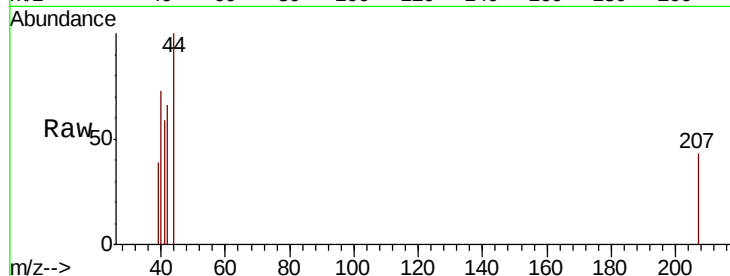




#41
Methacrylonitrile
Concen: 0.259 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

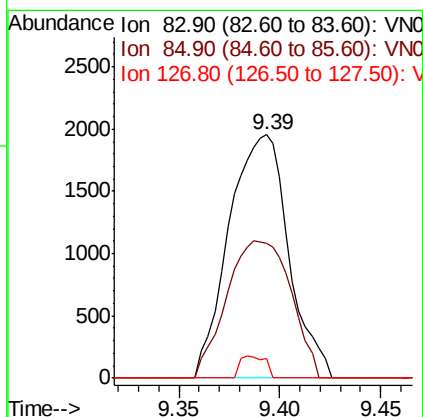
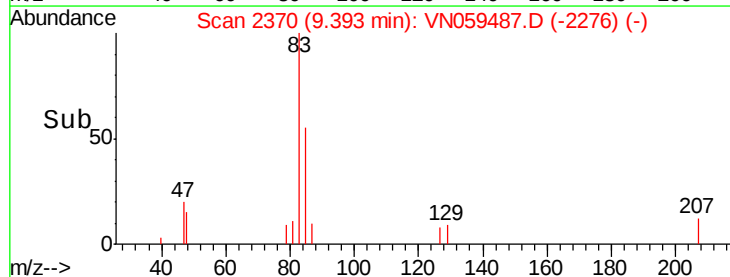
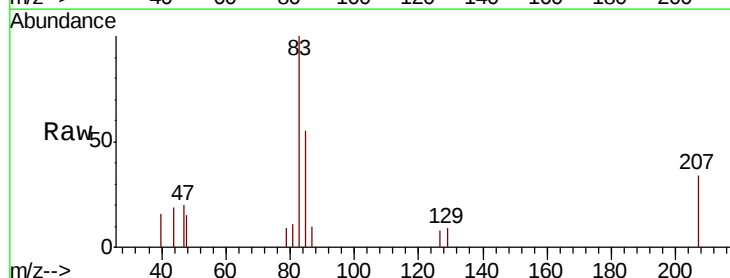
Instrument :
MSVOA_N
ClientSampleId :

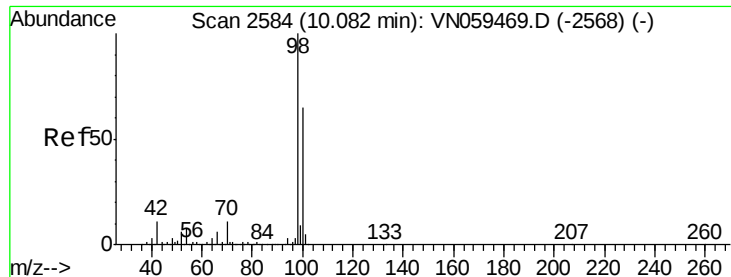
Tot Ion: 41 Resp: 621
Ion Ratio Lower Upper
41 100
39 15.5 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#47
Bromodichloromethane
Concen: 0.778 ug/l
RT: 9.39 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion: 83 Resp: 4030
Ion Ratio Lower Upper
83 100
85 55.4 51.0 76.6
127 8.0 6.6 9.8





#50

Toluene-d8

Concen: 49.449 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059487.D

Acq: 4 Dec 2019 15:49

Instrument :

MSVOA_N

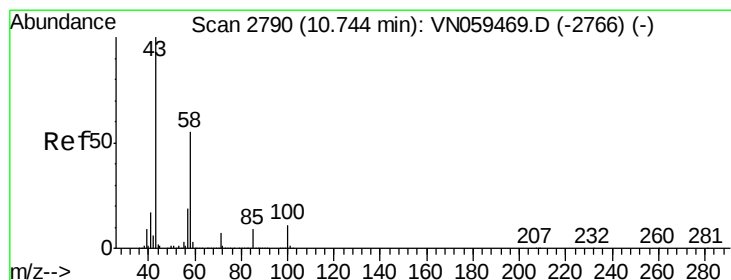
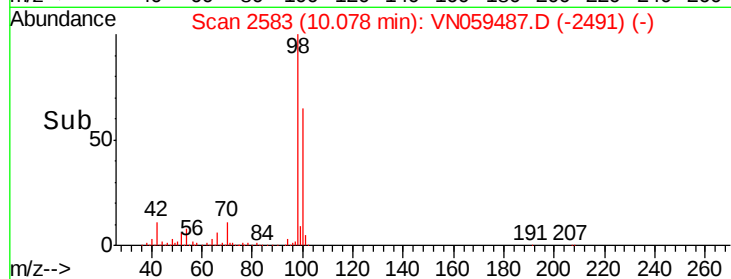
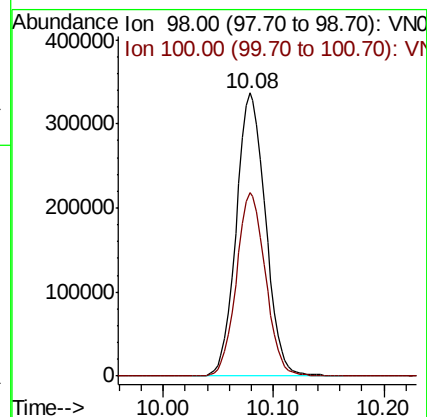
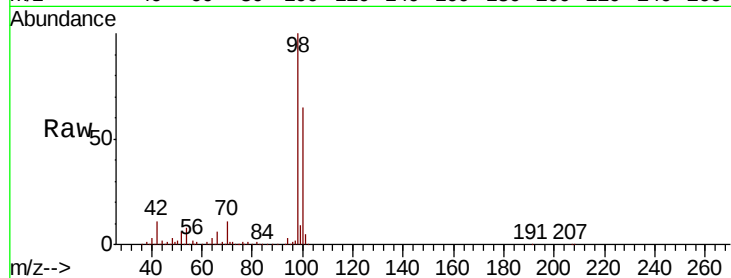
ClientSampled :

Tot Ion: 98 Resp: 619215

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1



#59

2-Hexanone

Concen: 0.308 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN059487.D

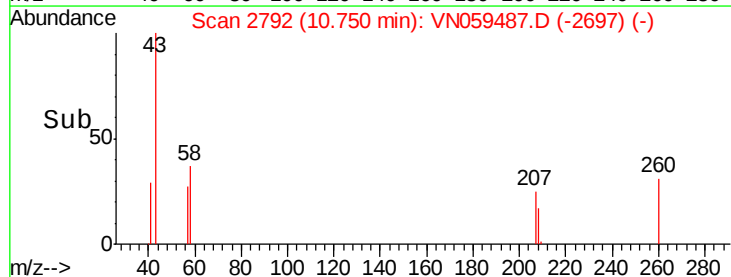
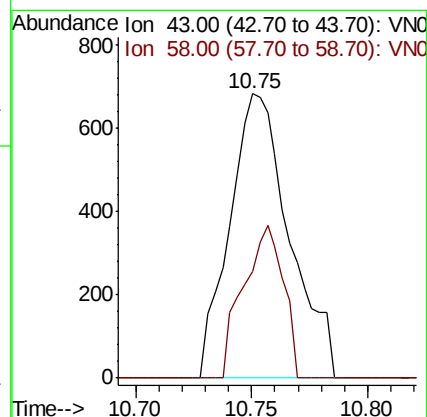
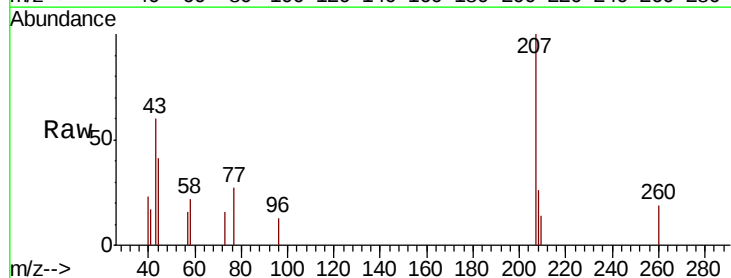
Acq: 4 Dec 2019 15:49

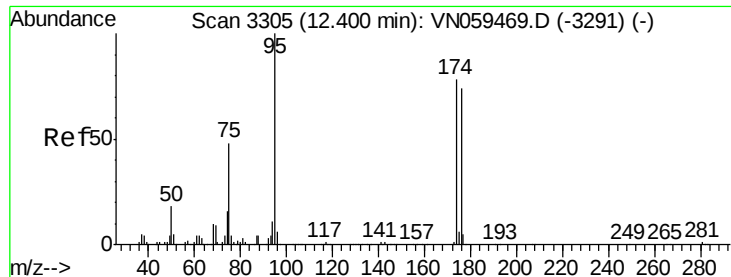
Tgt Ion: 43 Resp: 1213

Ion Ratio Lower Upper

43 100

58 35.9 27.7 83.0

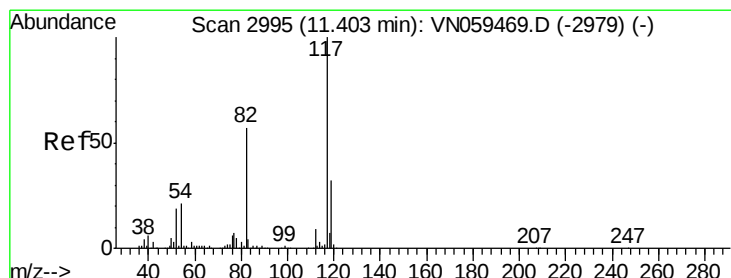
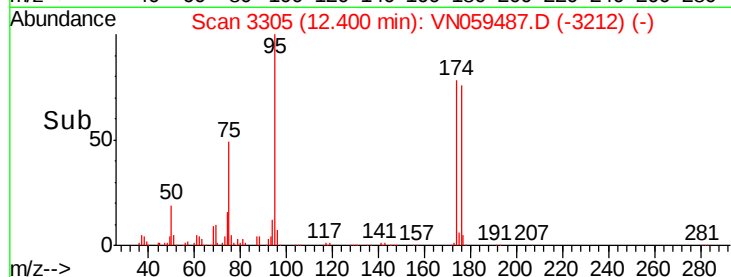
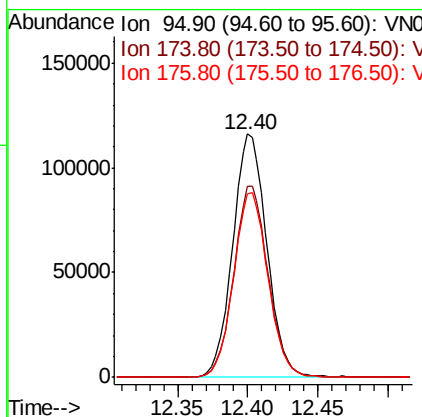
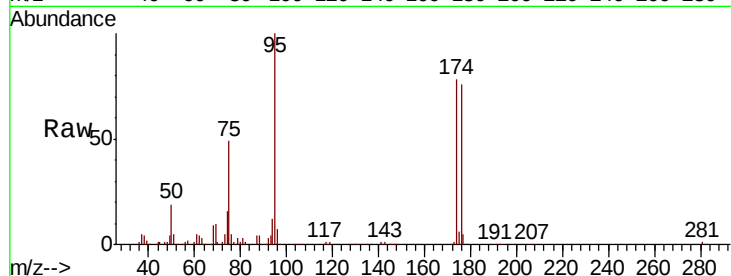




#62
4-Bromofluorobenzene
Concen: 44.993 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

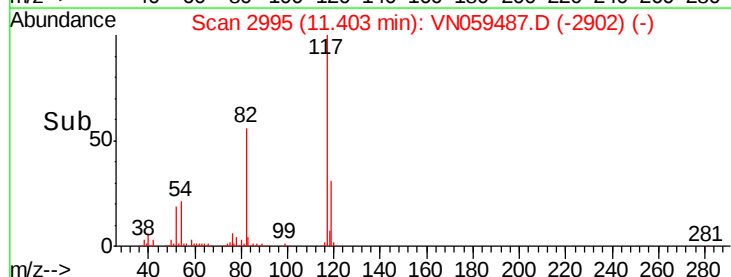
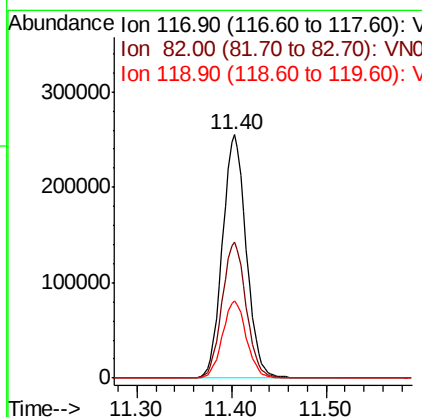
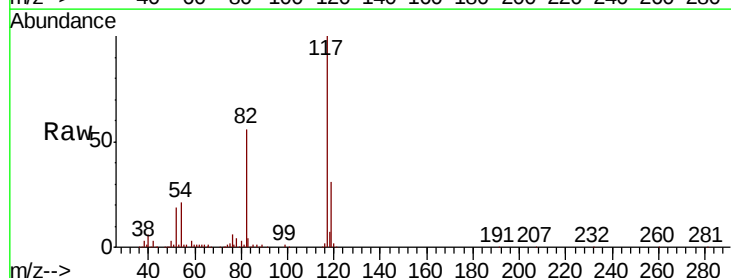
Instrument :
MSVOA_N
ClientSampleId :

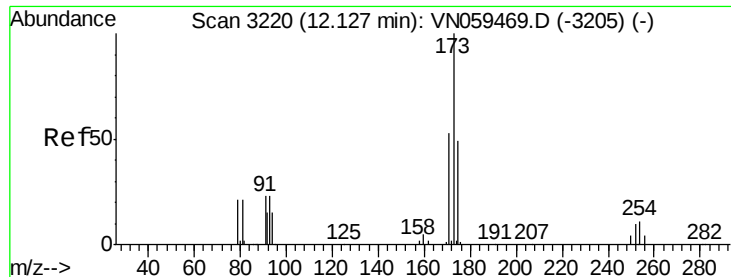
Tot Ion	Ratio	Lower	Upper
95	100		
174	79.1	0.0	157.0
176	76.7	0.0	152.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.9	45.8	68.8
119	31.5	25.4	38.0





#71

Bromoform

Concen: 0.427 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059487.D

Acq: 4 Dec 2019 15:49

Instrument :

MSVOA_N

ClientSampled :

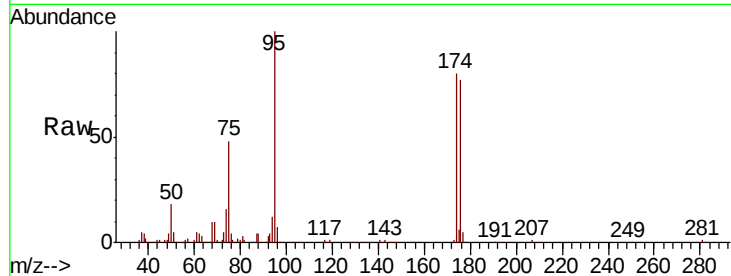
Tot Ion:173 Resp: 1167

Ion Ratio Lower Upper

173 100

175 836.2 24.3 73.0#

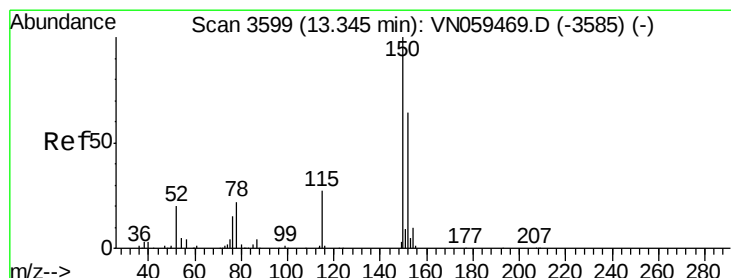
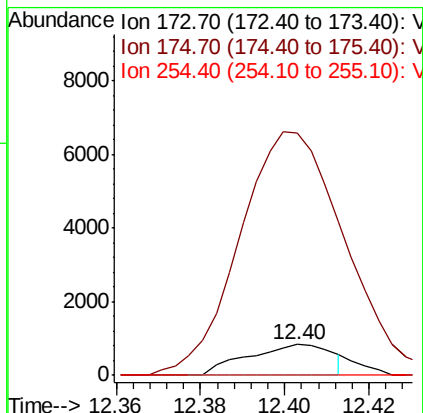
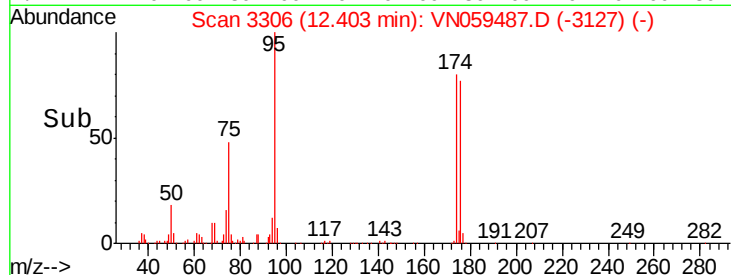
254 0.0 0.0 0.0



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# 3599

Delta R.T. -0.00 min

Lab File: VN059487.D

Acq: 4 Dec 2019 15:49

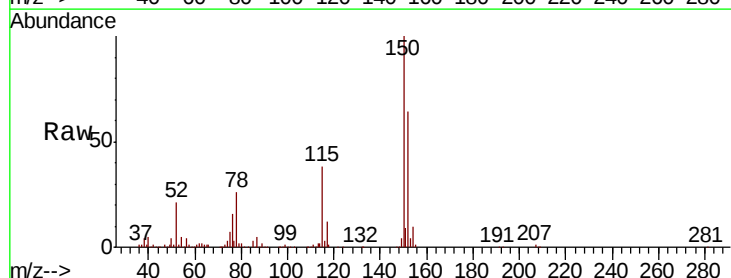
Tgt Ion:152 Resp: 165155

Ion Ratio Lower Upper

152 100

115 59.4 29.2 87.6

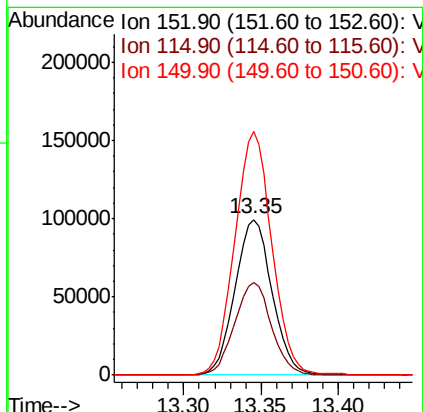
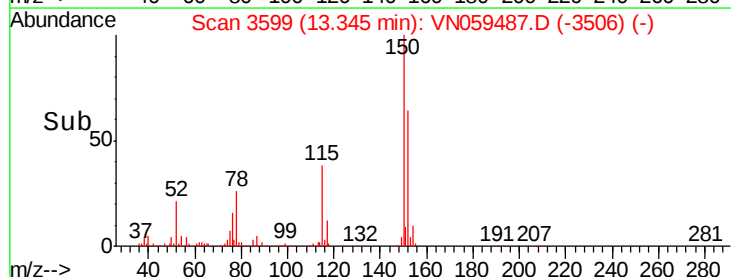
150 157.1 0.0 352.8

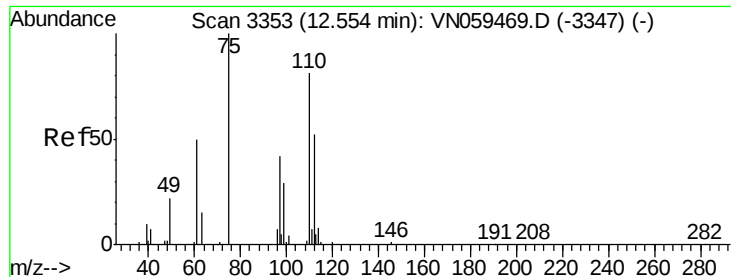


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.777 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059487.D

Acq: 4 Dec 2019 15:49

Instrument :

MSVOA_N

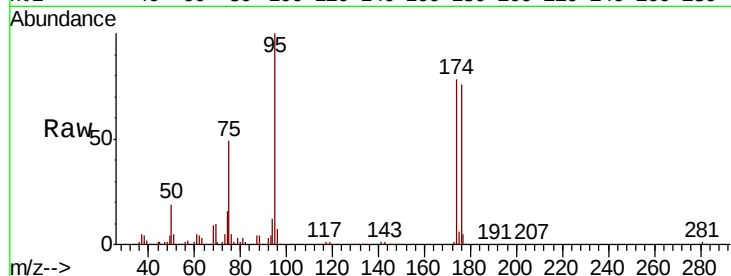
ClientSampleId :

Tot Ion: 75 Resp: 97638

Ion Ratio Lower Upper

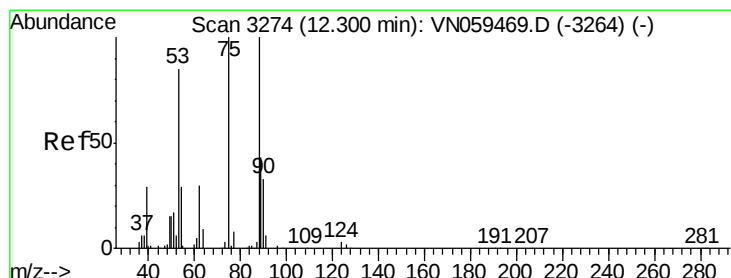
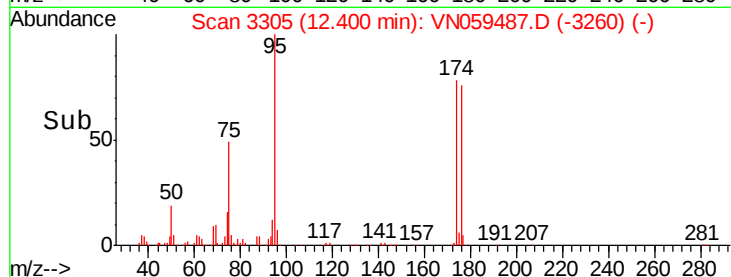
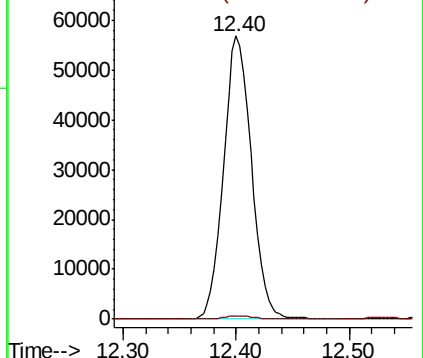
75 100

77 1.1 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: 62.399 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059487.D

Acq: 4 Dec 2019 15:49

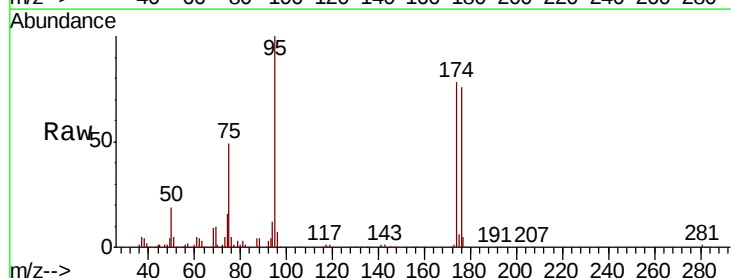
Tgt Ion: 75 Resp: 97638

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

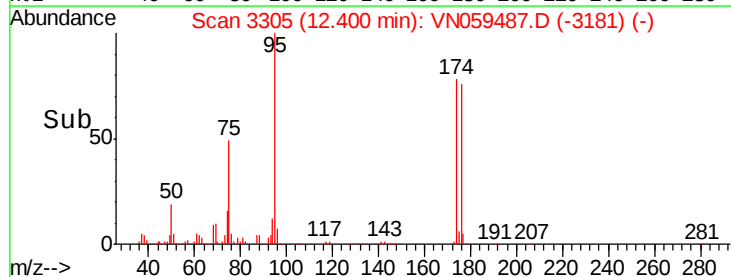
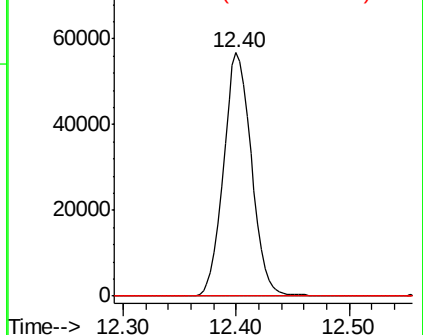
89 0.0 35.2 52.8#

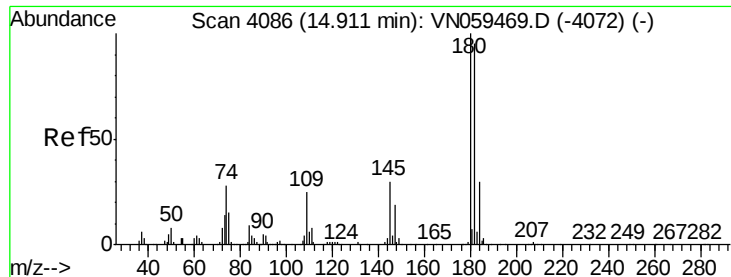


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

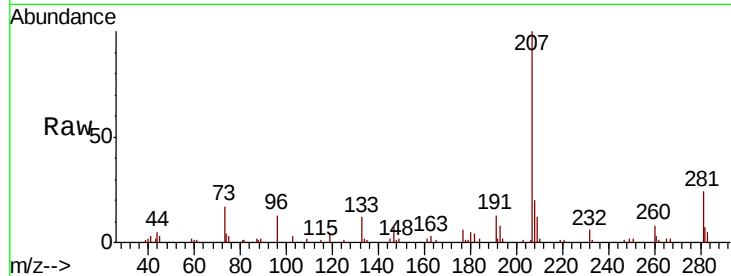




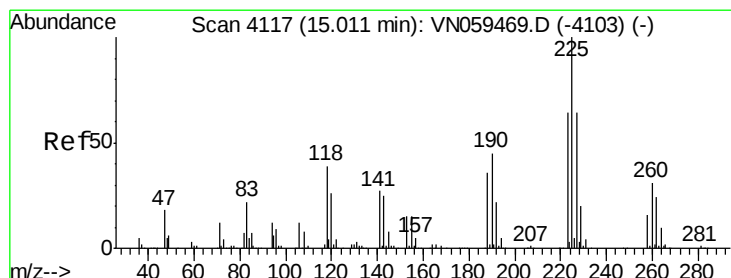
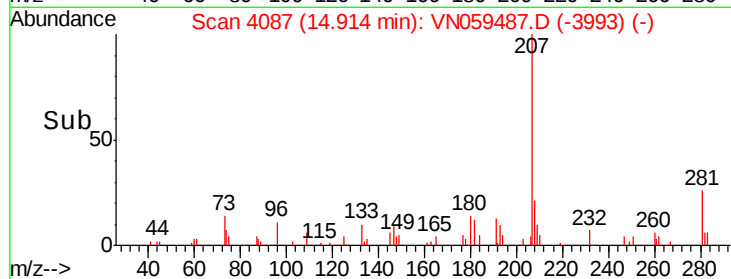
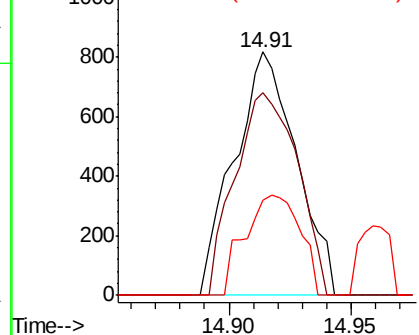
#93
 1,2,4-Trichlorobenzene
 Concen: 0.422 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059487.D
 Acq: 4 Dec 2019 15:49

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1440
 Ion Ratio Lower Upper
 180 100
 182 84.3 48.0 144.2
 145 36.7 15.2 45.6

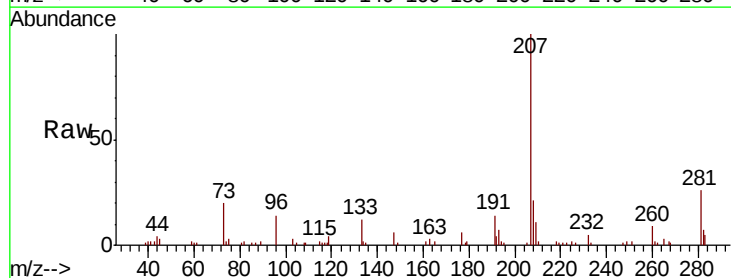


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

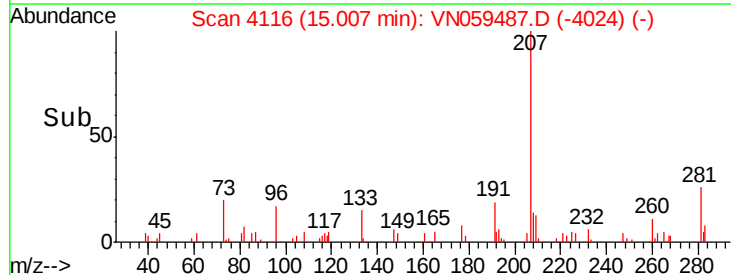
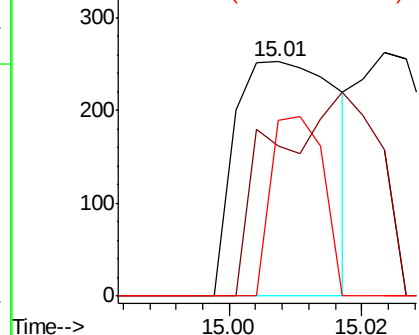


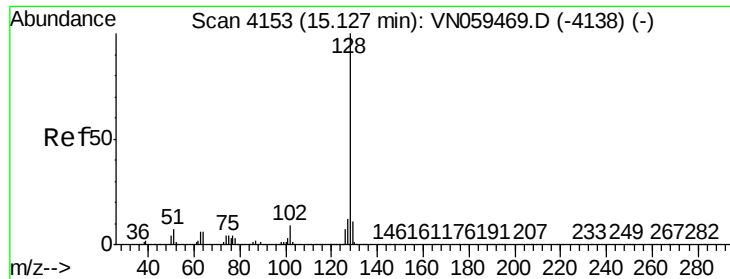
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN059487.D
 Acq: 4 Dec 2019 15:49

Tgt Ion:225 Resp: 271
 Ion Ratio Lower Upper
 225 100
 223 89.3 31.9 95.5
 227 38.7 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

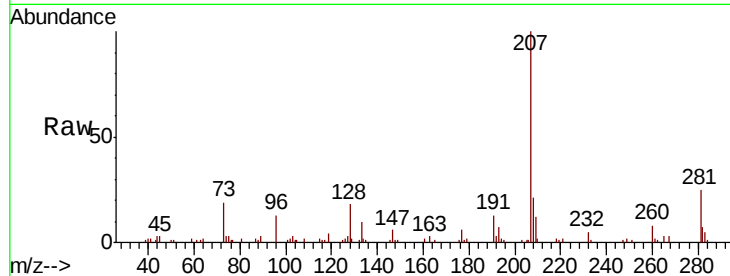




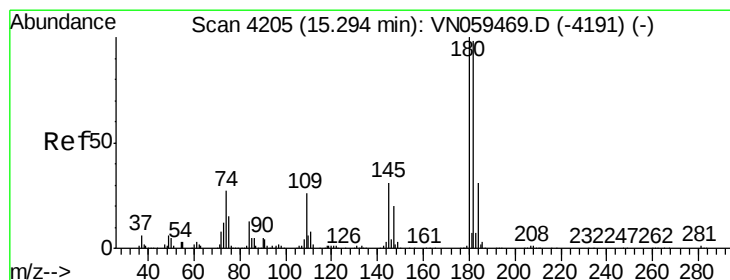
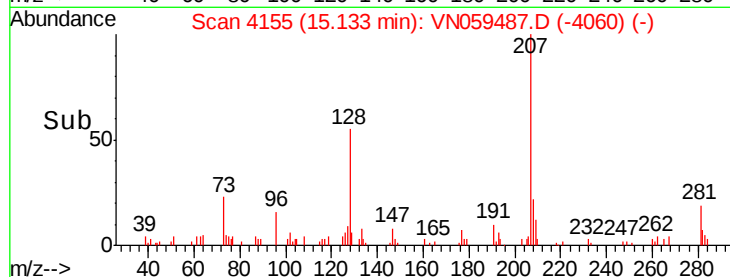
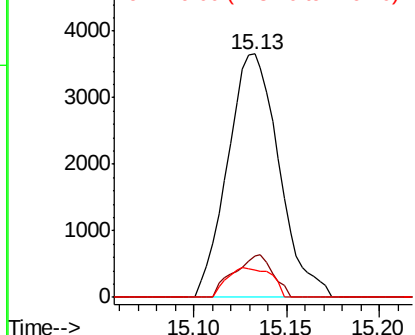
#95
Naphthalene
Concen: 3.137 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.01 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:128 Resp: 7017
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 10.6 8.8 13.2

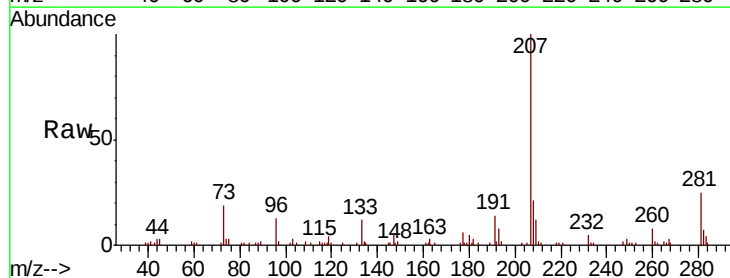


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.554 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN059487.D
Acq: 4 Dec 2019 15:49

Tgt Ion:180 Resp: 2102
Ion Ratio Lower Upper
180 100
182 75.3 48.5 145.5
145 38.0 16.1 48.2



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

