

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058198.D
 Acq On : 19 Sep 2019 12:22
 Operator : JC/SP
 Sample : K4896-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:49:38 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	513722	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	831796	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	710253	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289701	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	366892	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	7.58	113	256331	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
50) Toluene-d8	10.08	98	1038718	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
62) 4-Bromofluorobenzene	12.40	95	333409	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	

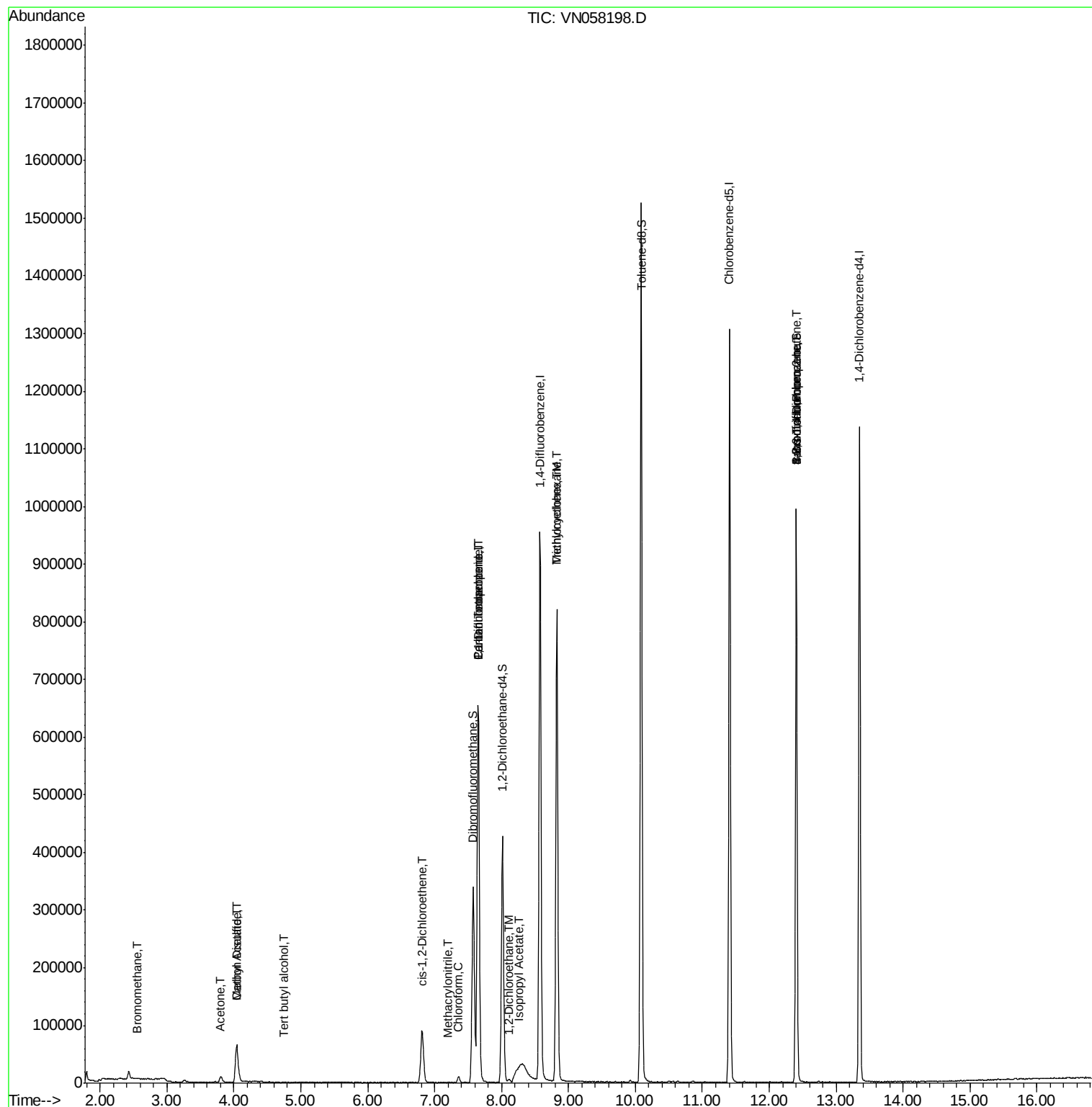
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1728	Below Cal		96
4) Vinyl Chloride	2.45	62	29	Below Cal	#	43
5) Bromomethane	2.55	94	195	0.825	ug/l #	4
6) Chloroethane	2.67	64	30	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	301	0.354	ug/l #	71
12) 1,1-Dichloroethene	3.71	96	467	Below Cal	#	8
16) Acetone	3.80	43	17984	7.405	ug/l	94
17) Carbon Disulfide	4.04	76	130	0.300	ug/l #	74
18) Methyl Acetate	4.04	43	27883	4.363	ug/l #	53
20) Methylene Chloride	4.53	84	344	Below Cal	#	62
21) trans-1,2-Dichloroethene	5.01	96	207	Below Cal	#	7
27) cis-1,2-Dichloroethene	6.82	96	57174	10.975	ug/l	87
30) Chloroform	7.36	83	10330	1.042	ug/l	91
31) Cyclohexane	7.65	56	12858	Below Cal	#	22
36) 1,1-Dichloropropene	7.65	75	44008	7.337	ug/l #	51
38) Carbon Tetrachloride	7.65	117	52285	8.671	ug/l #	15
39) Methylcyclohexane	8.82	83	4382	0.825	ug/l #	1
41) Methacrylonitrile	7.19	41	100	0.942	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	4530	0.589	ug/l	82
43) Isopropyl Acetate	8.26	43	42527	3.658	ug/l #	57
44) Trichloroethene	8.82	130	289849	64.648	ug/l	99
71) Bromoform	12.39	173	428	3.713	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	183517	35.396	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	183517	98.949	ug/l #	5

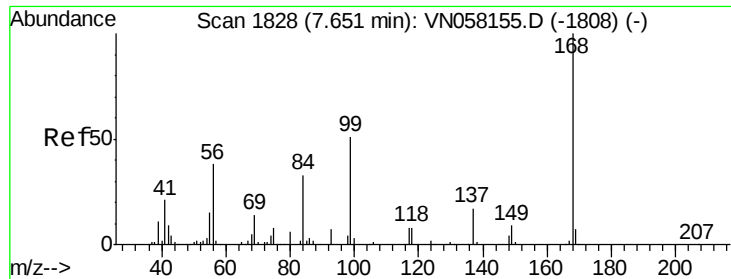
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058198.D

Acq: 19 Sep 2019 12:22

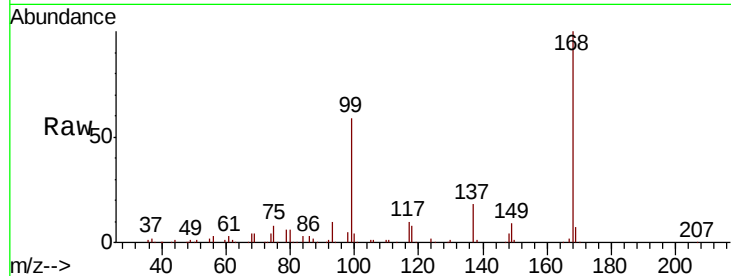
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 513722

Ion Ratio Lower Upper

168 100

99 59.4 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

250000

200000

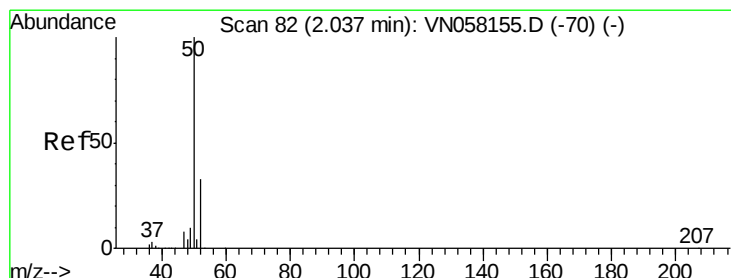
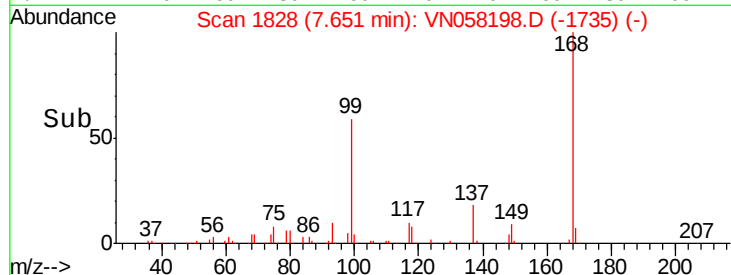
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058198.D

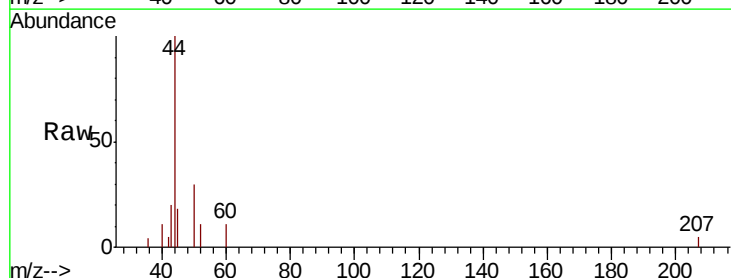
Acq: 19 Sep 2019 12:22

Tgt Ion: 50 Resp: 1728

Ion Ratio Lower Upper

50 100

52 35.4 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

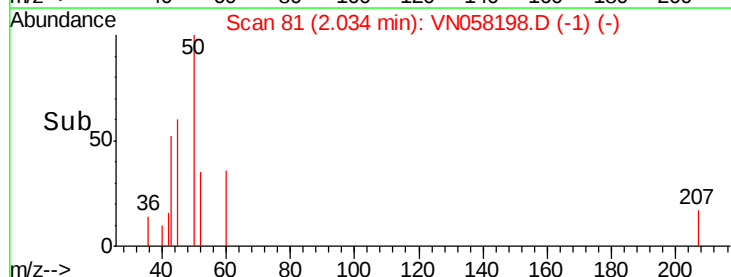
2.03

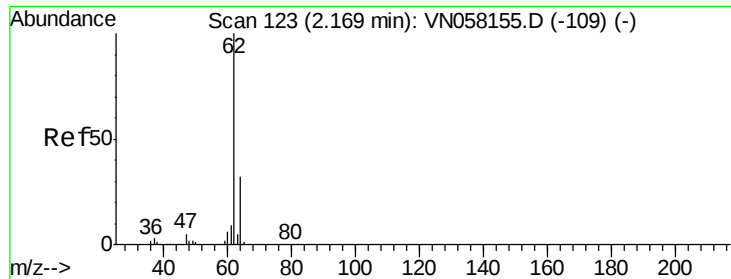
1000

500

0

Time--> 2.00 2.05





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.45 min Scan# 209

Delta R.T. 0.28 min

Lab File: VN058198.D

Acq: 19 Sep 2019 12:22

Instrument :

MSVOA_N

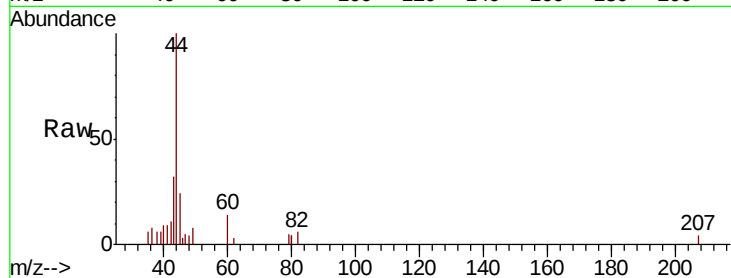
ClientSampleId :

Tot Ion: 62 Resp: 29

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.45

150

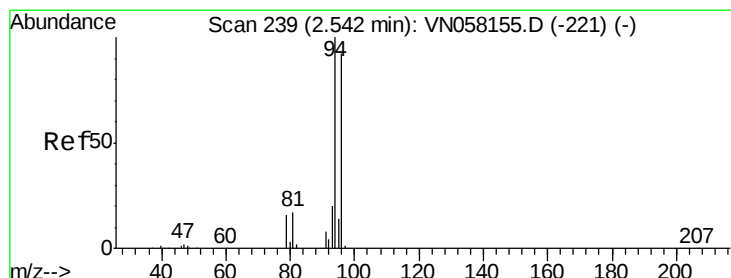
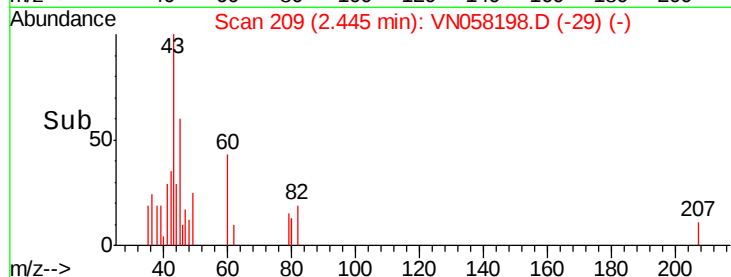
100

50

0

2.44 2.44 2.44 2.45 2.46

Time-->



#5

Bromomethane

Concen: 0.825 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058198.D

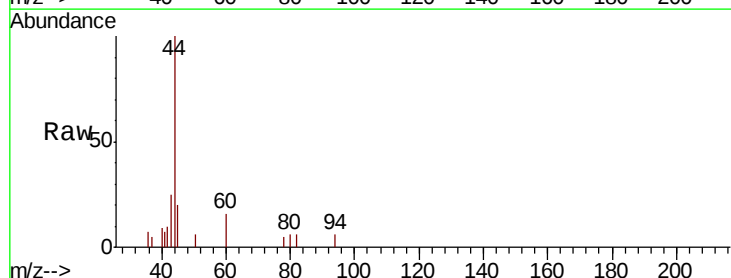
Acq: 19 Sep 2019 12:22

Tgt Ion: 94 Resp: 195

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

250

200

150

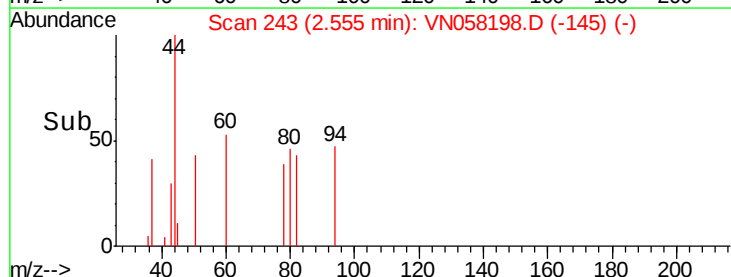
100

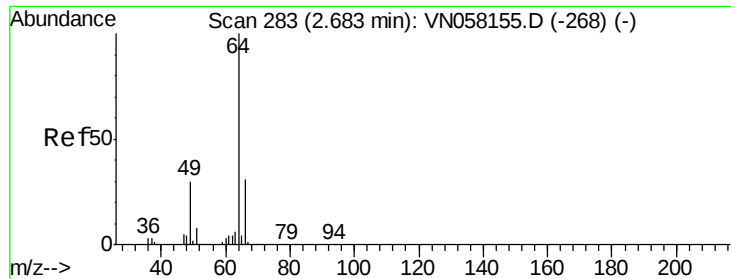
50

0

2.53 2.54 2.55 2.56 2.57

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.67 min Scan# 278

Delta R.T. -0.02 min

Lab File: VN058198.D

Acq: 19 Sep 2019 12:22

Instrument :

MSVOA_N

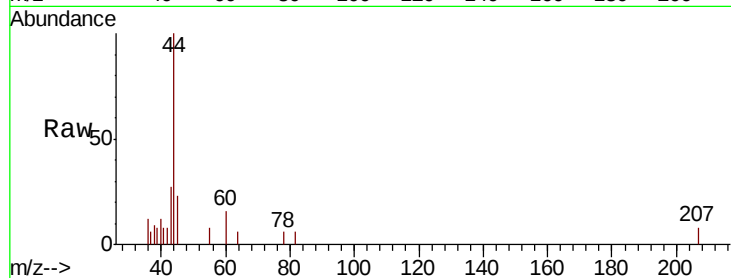
ClientSampled :

Tot Ion: 64 Resp: 30

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.67

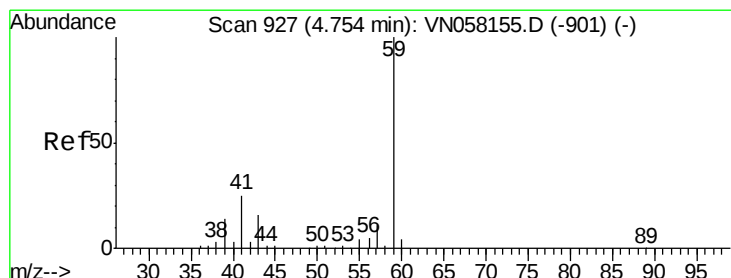
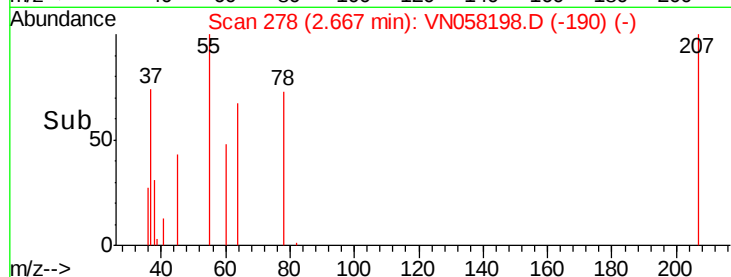
150

100

50

0

Time--> 2.65 2.66 2.67 2.67 2.67



#11

Tert butyl alcohol

Concen: 0.354 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN058198.D

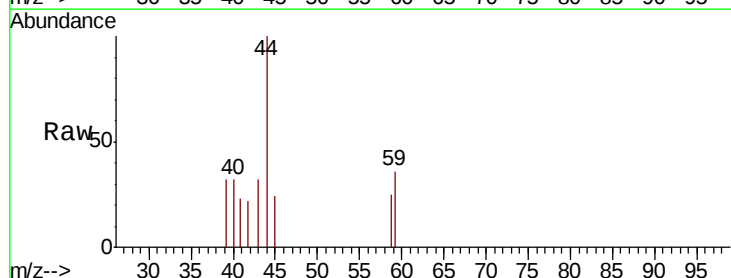
Acq: 19 Sep 2019 12:22

Tgt Ion: 59 Resp: 301

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

500

400

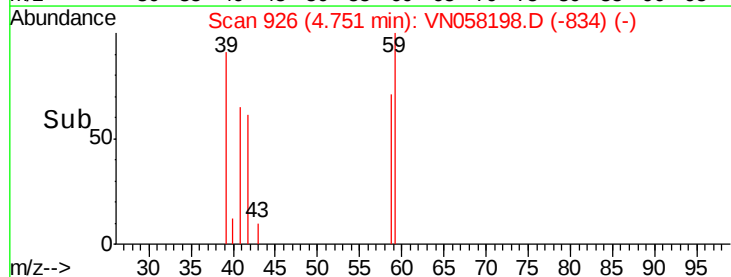
300

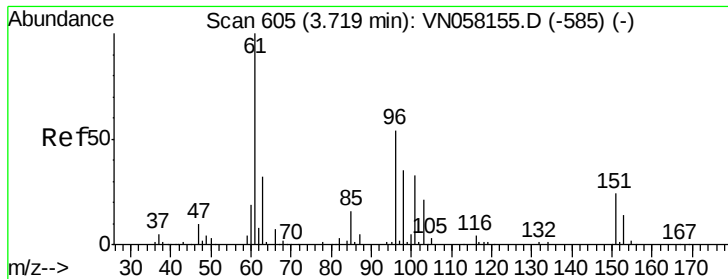
200

100

0

Time--> 4.73 4.74 4.75 4.76





#12

1,1-Dichloroethene

Concen: Below Cal

RT: 3.71 min Scan# 603

Delta R.T. -0.01 min

Lab File: VN058198.D

Acq: 19 Sep 2019 12:22

Instrument :
MSVOA_N
ClientSampled :

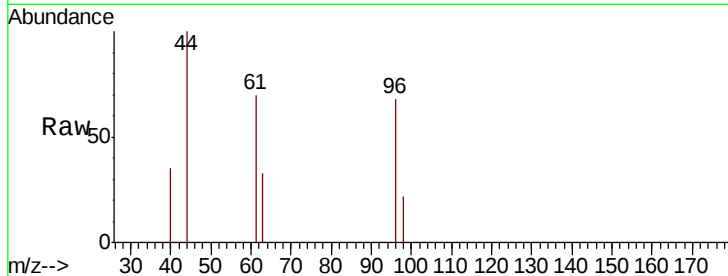
Tot Ion: 96 Resp: 467

Ion Ratio Lower Upper

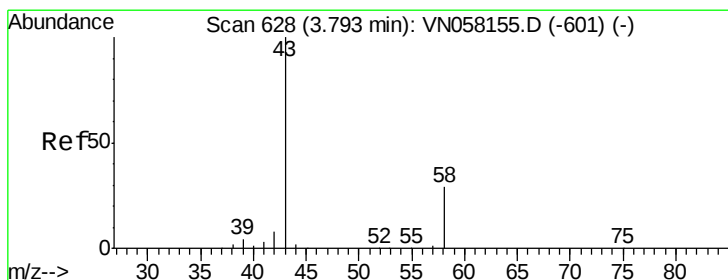
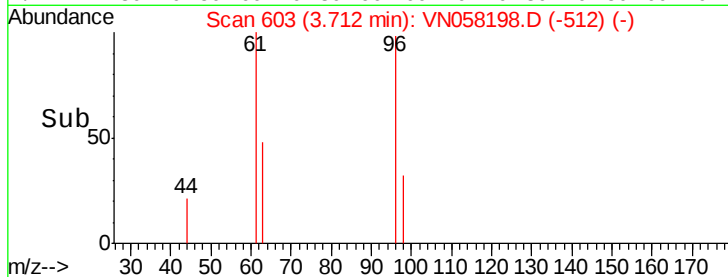
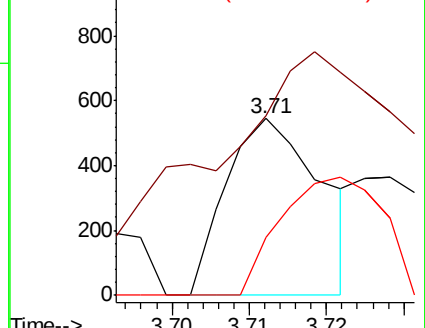
96 100

61 27.8 149.5 224.3#

98 32.9 52.4 78.6#



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



#16

Acetone

Concen: 7.405 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058198.D

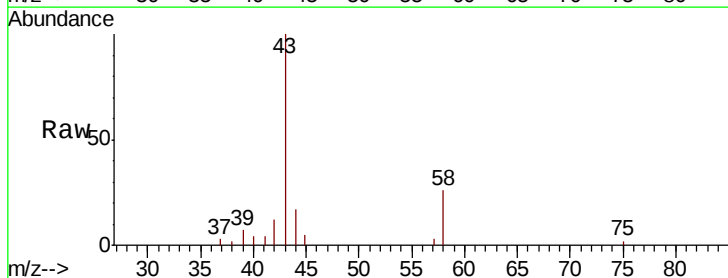
Acq: 19 Sep 2019 12:22

Tgt Ion: 43 Resp: 17984

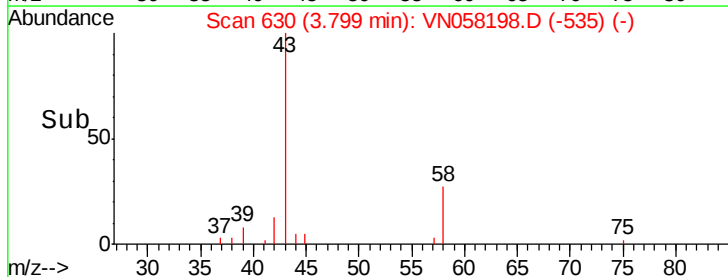
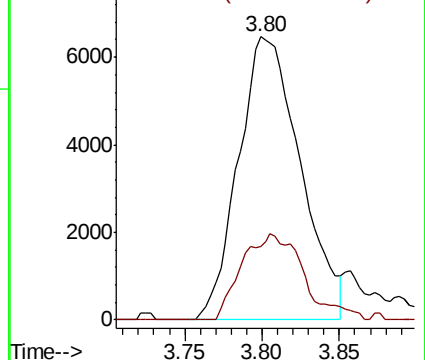
Ion Ratio Lower Upper

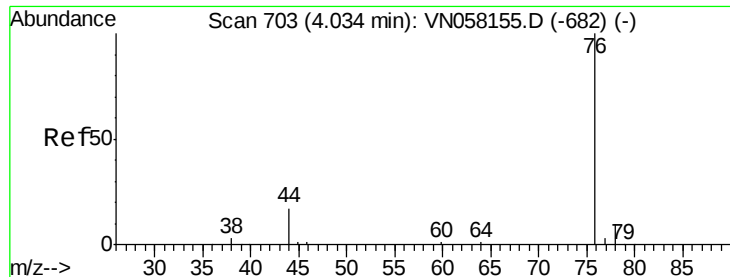
43 100

58 25.9 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058198.D

Acq: 19 Sep 2019 12:22

Instrument :

MSVOA_N

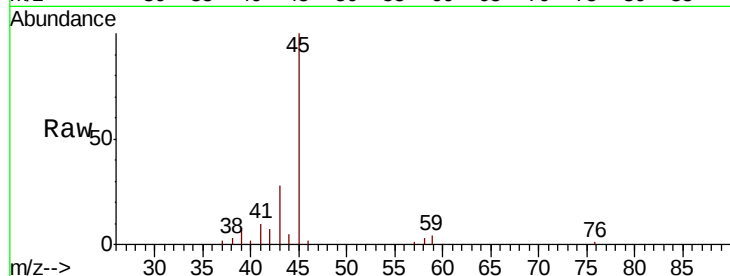
ClientSampled :

Tot Ion: 76 Resp: 130

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

150

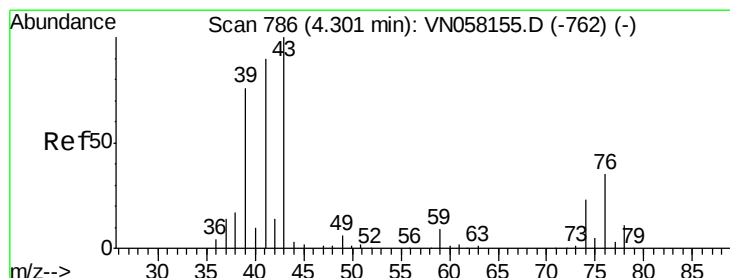
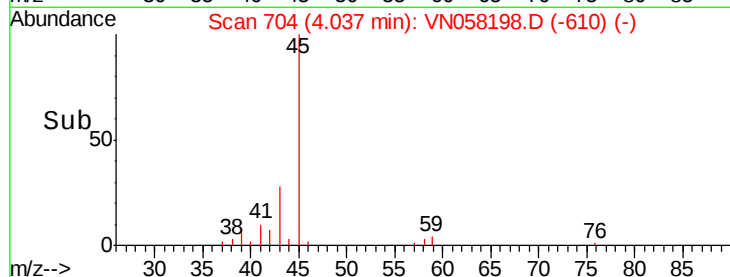
100

50

0

4.02 4.03 4.04 4.05

Time-->



#18

Methyl Acetate

Concen: 4.363 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.26 min

Lab File: VN058198.D

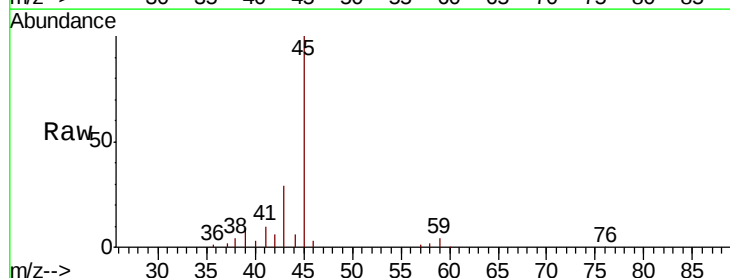
Acq: 19 Sep 2019 12:22

Tgt Ion: 43 Resp: 27883

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.04

12000

10000

8000

6000

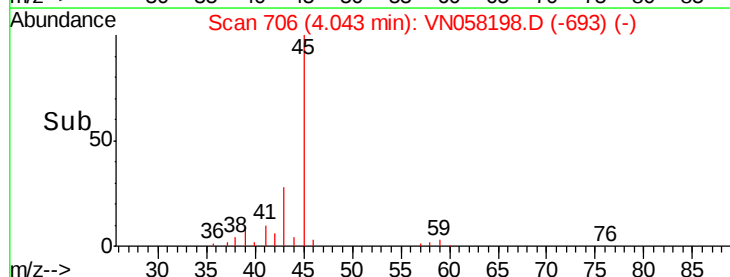
4000

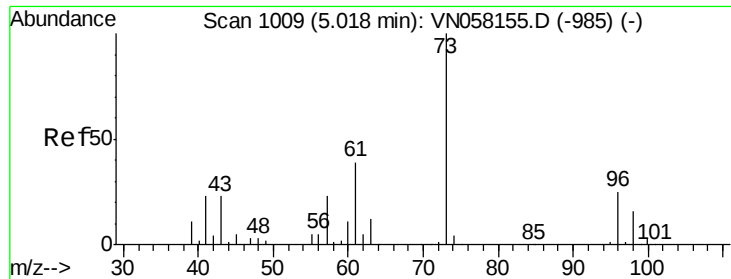
2000

0

4.00 4.05 4.10 4.15

Time-->

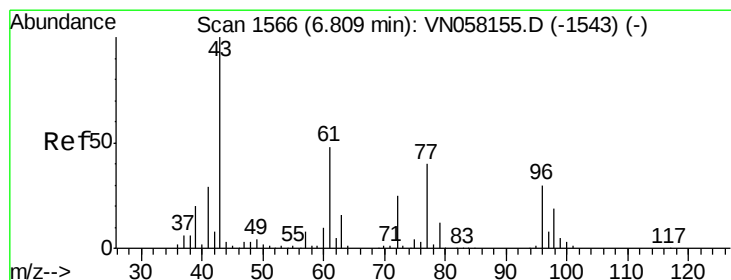
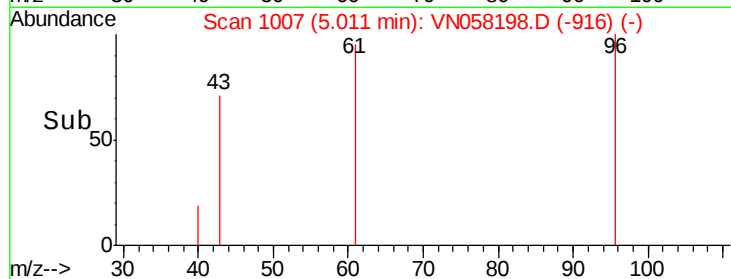
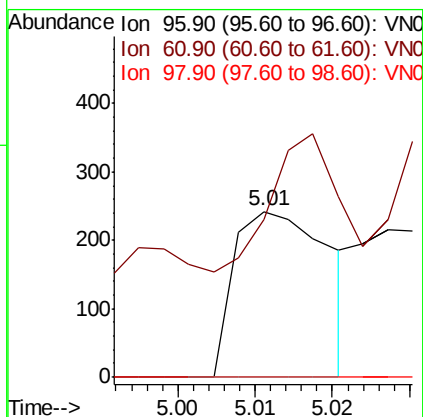
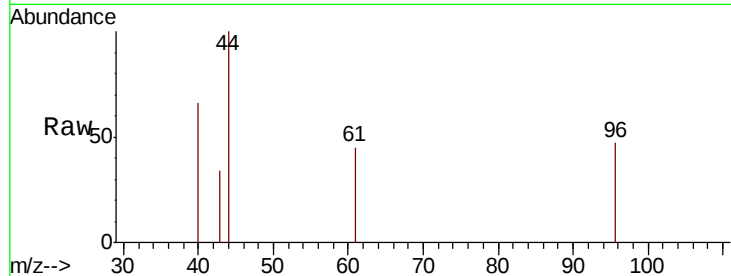




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 5.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

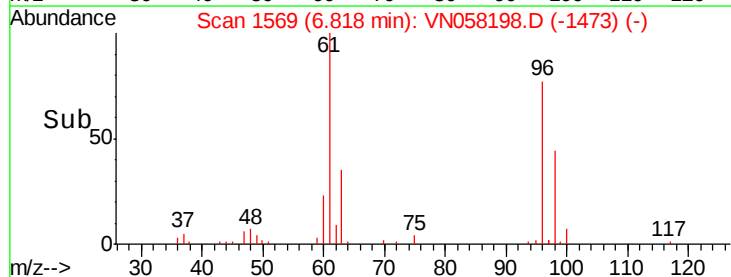
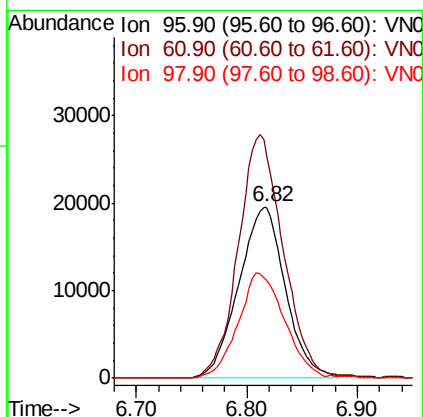
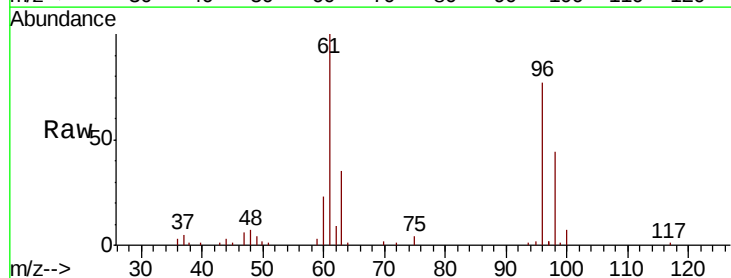
Instrument :
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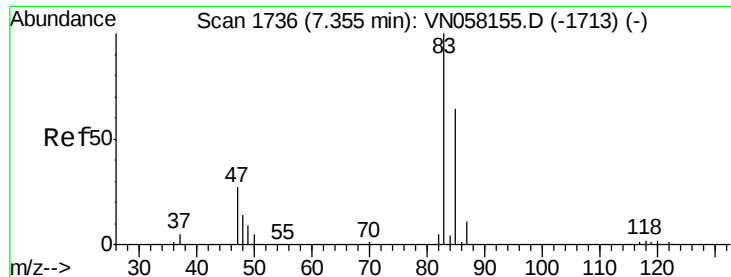
Tot Ion: 96 Resp: 207
Ion Ratio Lower Upper
96 100
61 26.9 122.2 183.4#
98 0.0 49.9 74.9#



#27
cis-1,2-Dichloroethene
Concen: 10.975 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion: 96 Resp: 57174
Ion Ratio Lower Upper
96 100
61 138.0 0.0 319.0
98 60.9 0.0 126.6

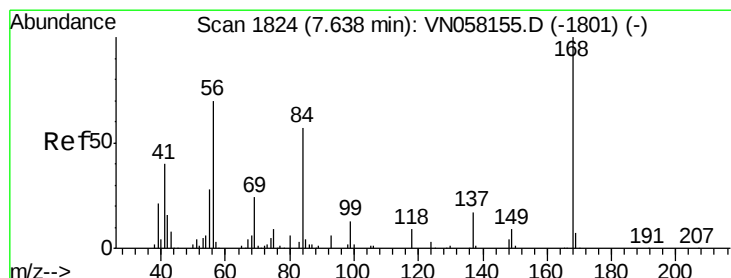
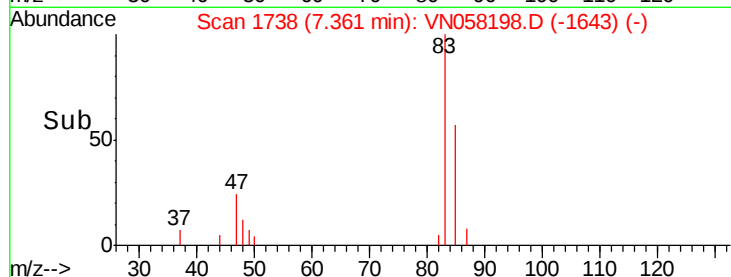
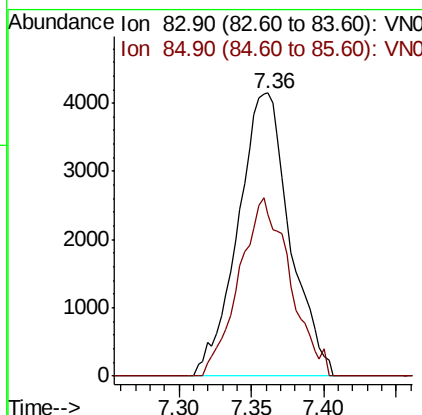
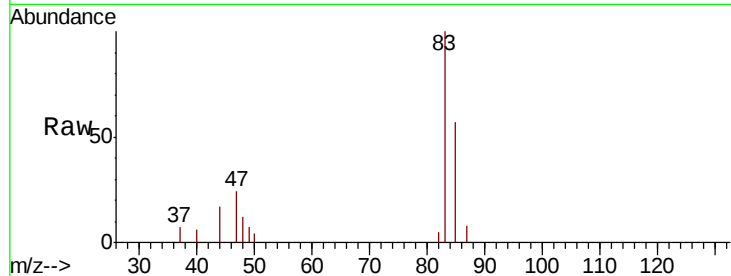




#30
Chloroform
Concen: 1.042 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. 0.01 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

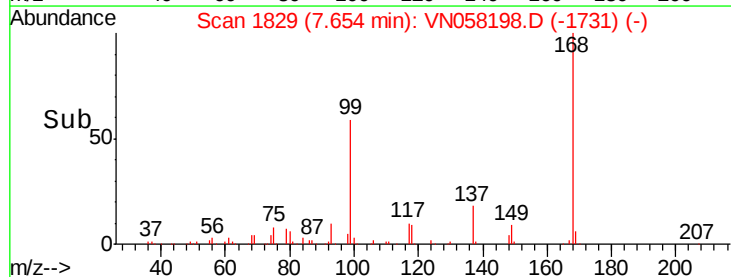
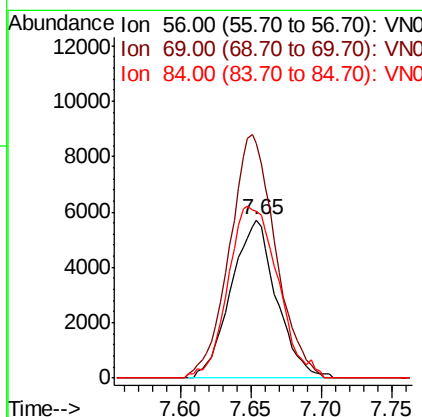
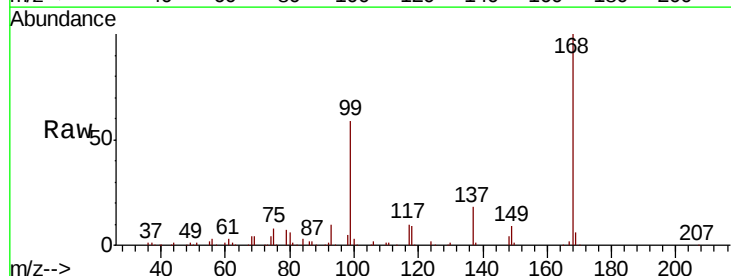
Instrument :
MSVOA_N
ClientSampleId :

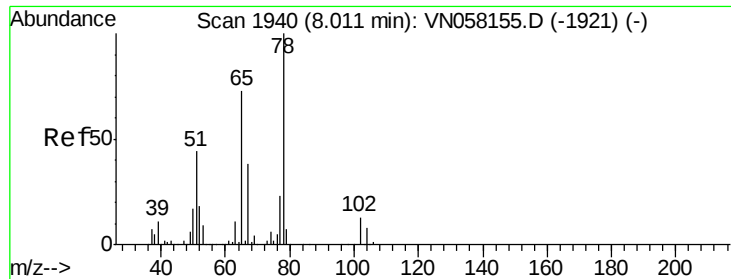
Tot Ion: 83 Resp: 10330
Ion Ratio Lower Upper
83 100
85 57.3 51.4 77.2



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion: 56 Resp: 12858
Ion Ratio Lower Upper
56 100
69 148.5 27.3 40.9#
84 105.5 65.0 97.4#

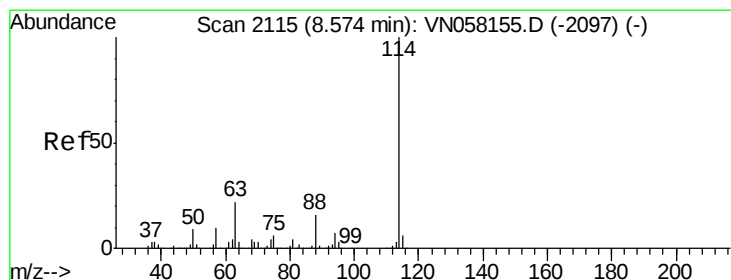
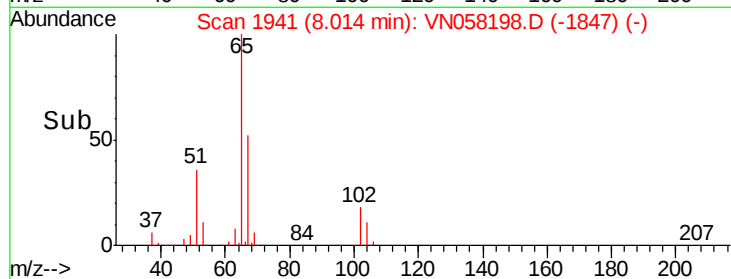
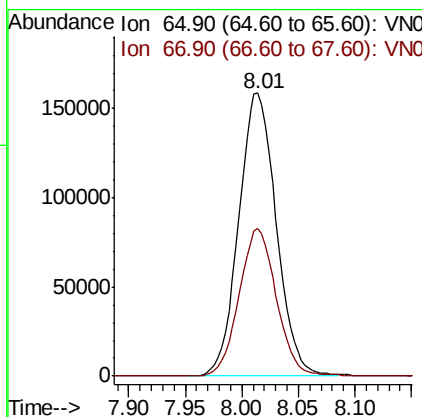
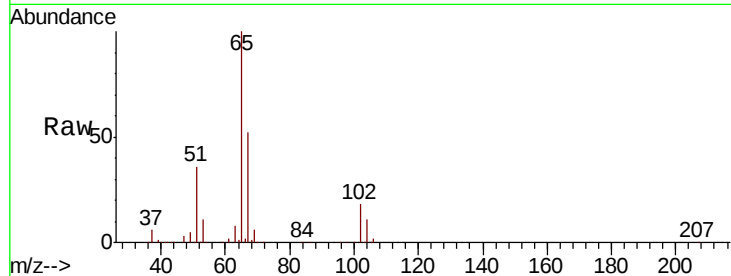




#33
 1,2-Dichloroethane-d4
 Concen: 51.277 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058198.D
 Acq: 19 Sep 2019 12:22

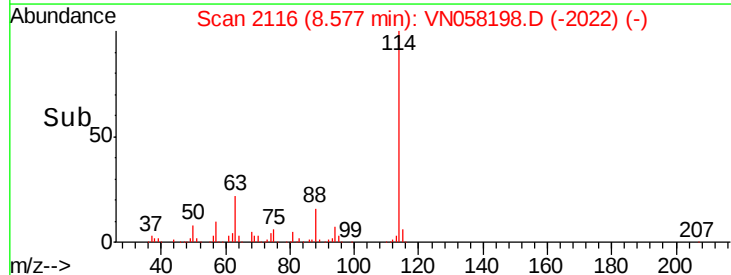
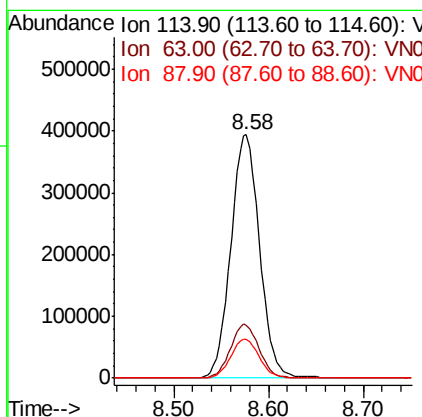
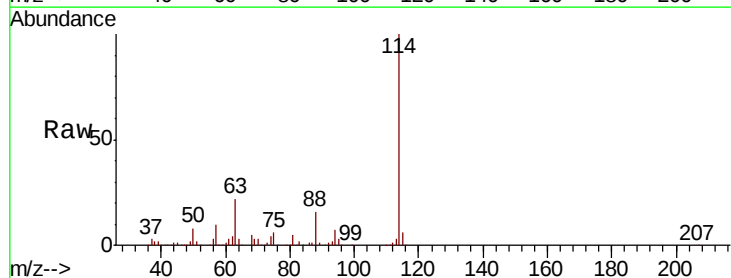
Instrument :
 MSVOA_N
 ClientSampleId :

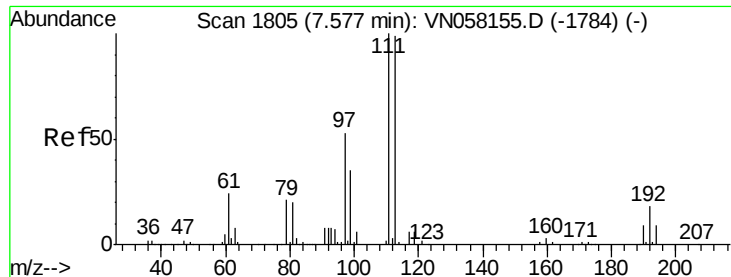
Tot Ion: 65 Resp: 366892
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058198.D
 Acq: 19 Sep 2019 12:22

Tgt Ion: 114 Resp: 831796
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 44.2
 88 16.2 0.0 31.6

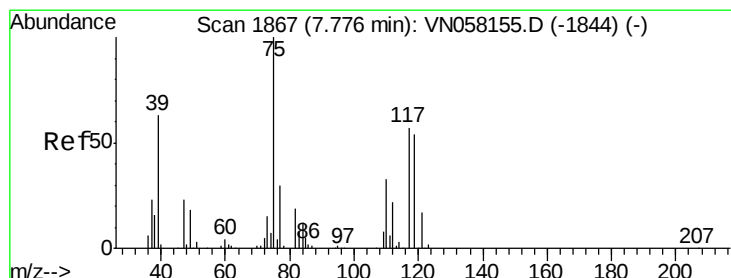
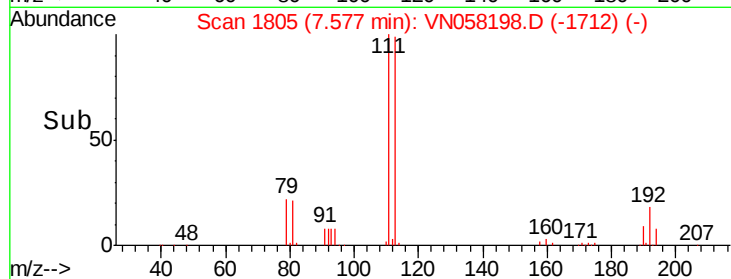
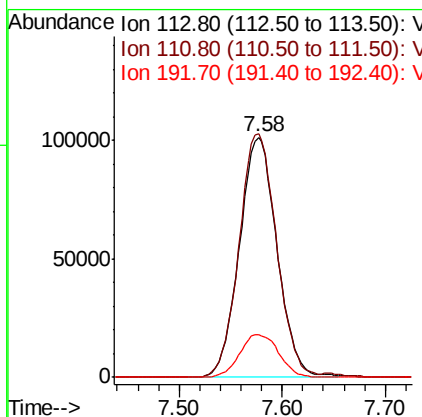
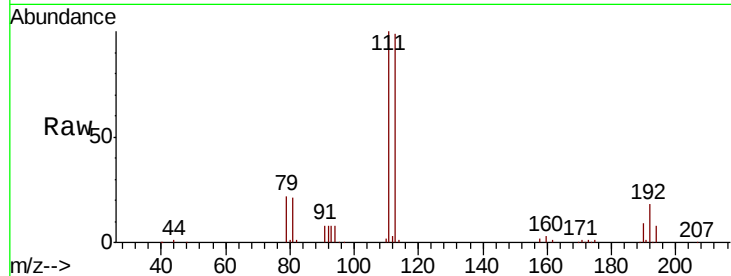




#35
 Dibromofluoromethane
 Concen: 50.692 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058198.D
 Acq: 19 Sep 2019 12:22

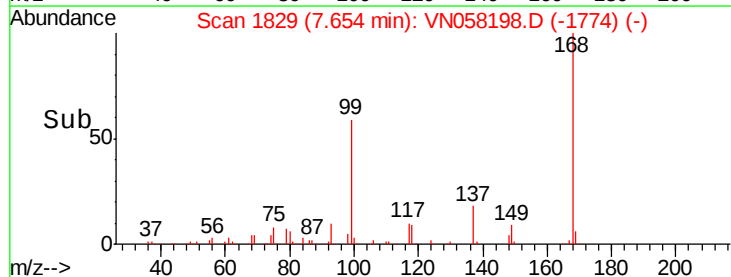
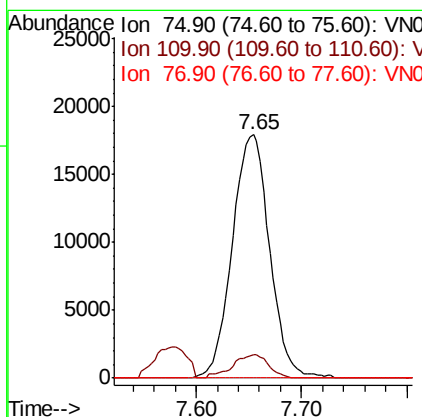
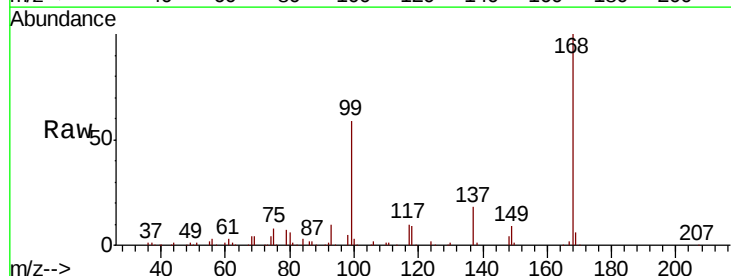
Instrument :
 MSVOA_N
 ClientSampled :

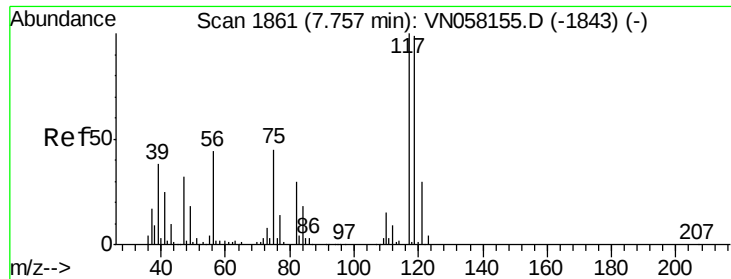
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.6
192	18.5	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.337 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058198.D
 Acq: 19 Sep 2019 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	16.6	49.7#
77	0.0	24.3	36.5#

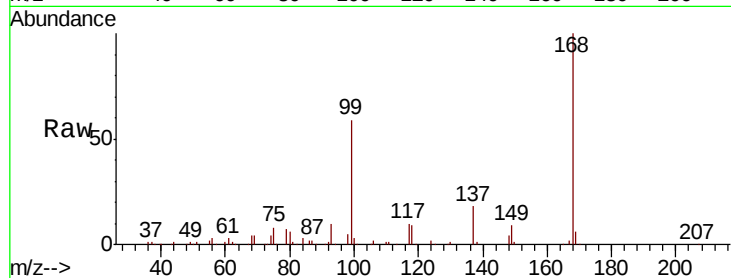




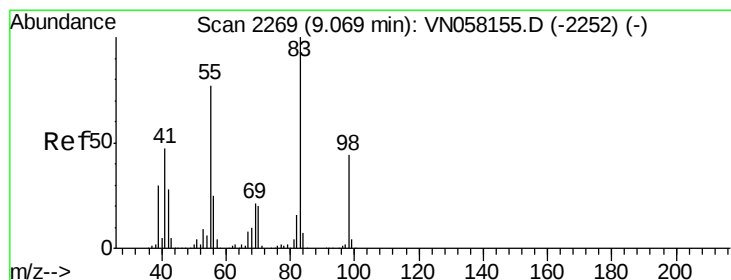
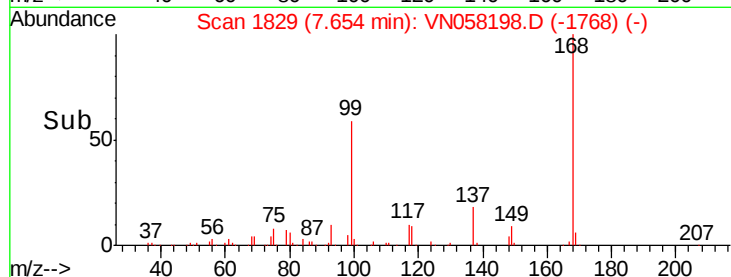
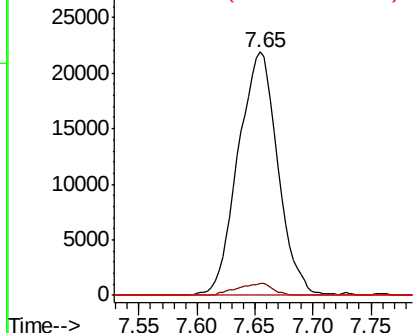
#38
Carbon Tetrachloride
Concen: 8.671 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 52285
Ion Ratio Lower Upper
117 100
119 4.7 78.6 117.8#
121 0.0 24.1 36.1#

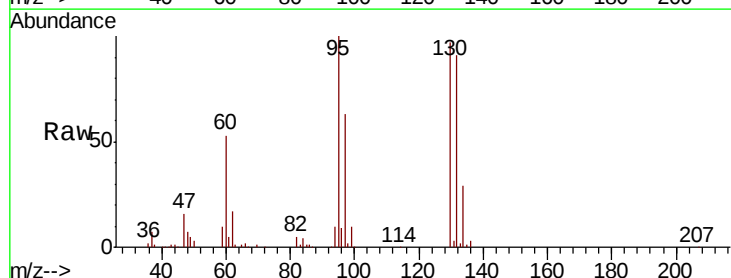


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

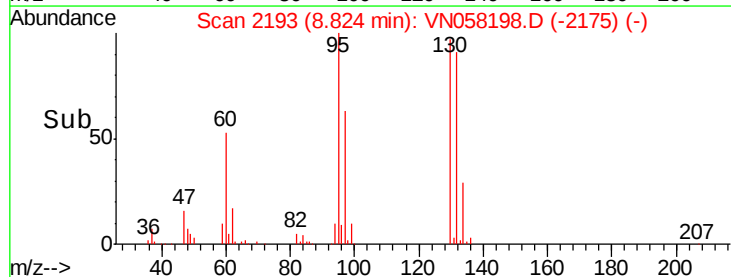
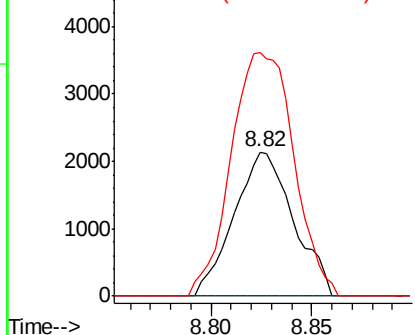


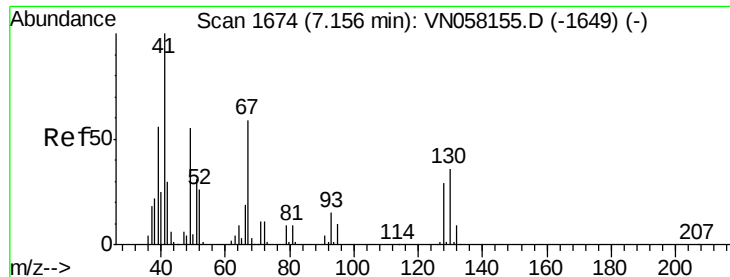
#39
Methylcyclohexane
Concen: 0.825 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion: 83 Resp: 4382
Ion Ratio Lower Upper
83 100
55 0.0 61.9 92.9#
98 169.0 35.4 53.2#



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

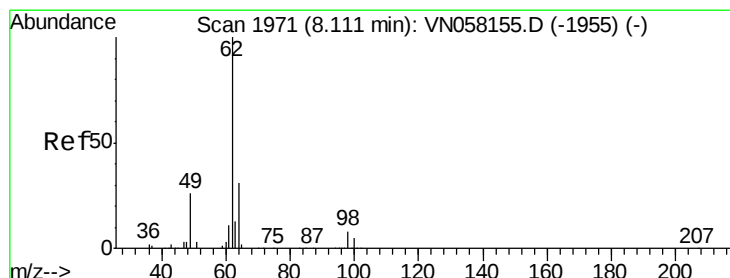
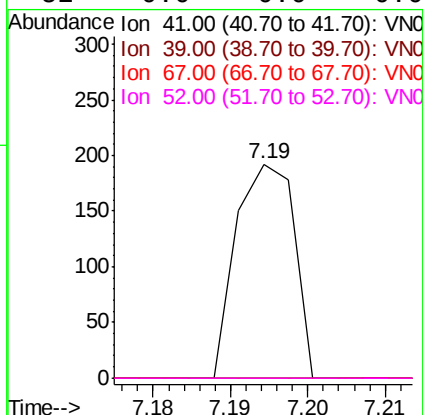
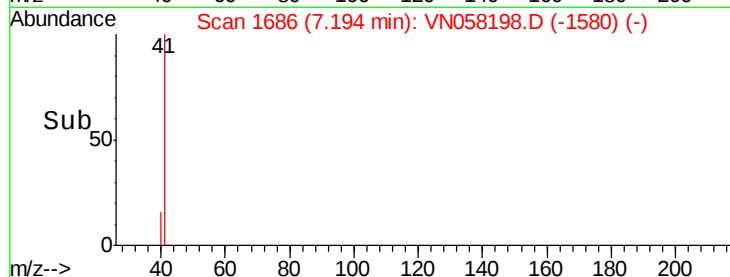
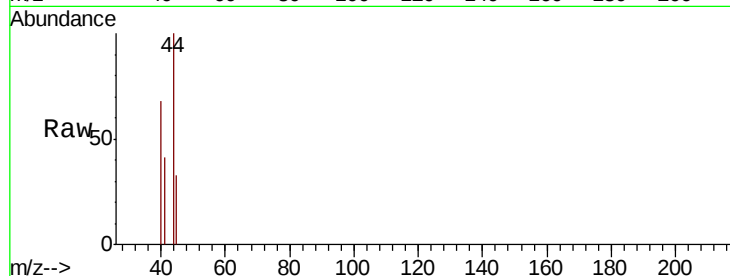




#41
Methacrylonitrile
Concen: 0.942 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

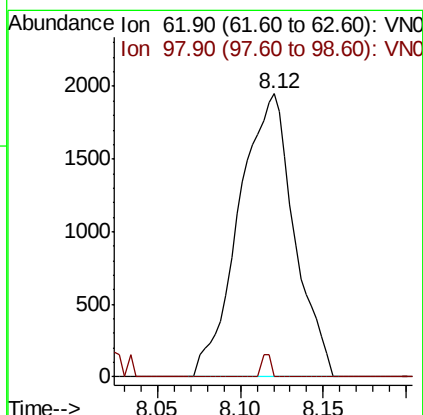
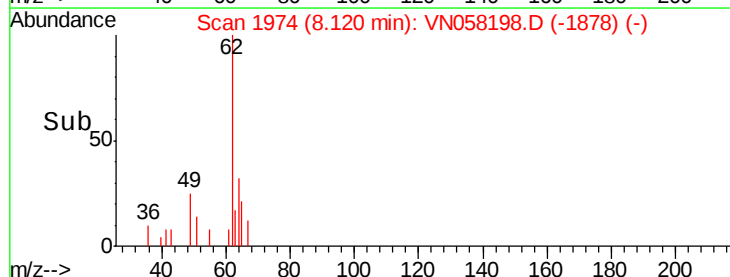
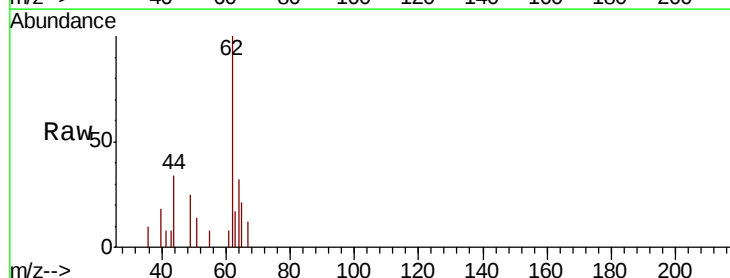
Instrument :
MSVOA_N
ClientSampleId :

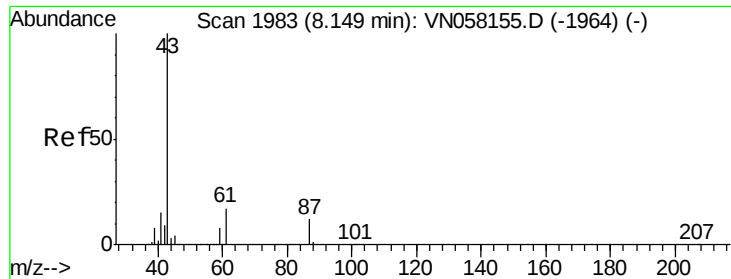
Tot Ion:	41	Resp:	100
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#42
1,2-Dichloroethane
Concen: 0.589 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. 0.01 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion:	62	Resp:	4530
Ion	Ratio	Lower	Upper
62	100		
98	1.3	0.0	15.6

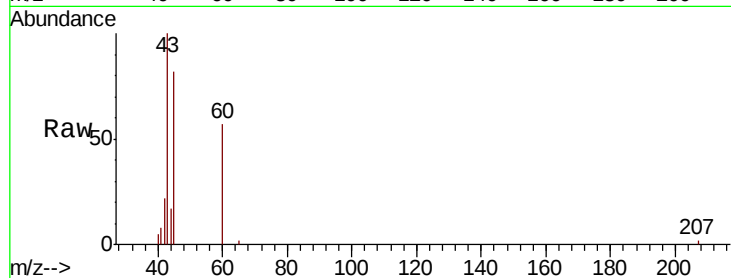




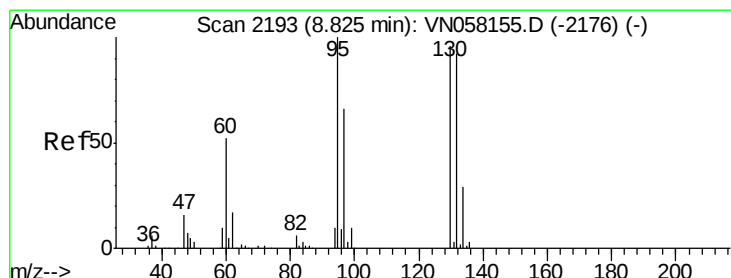
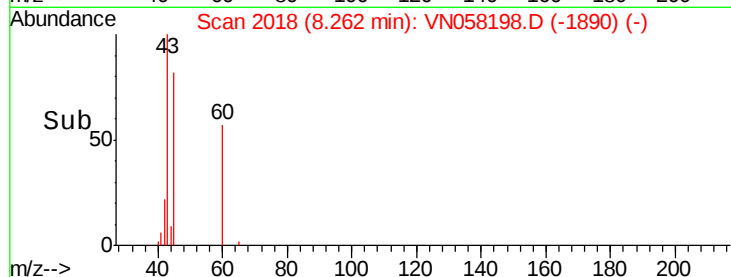
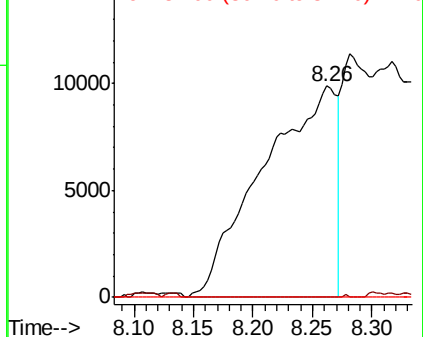
#43
Isopropyl Acetate
Concen: 3.658 ug/l
RT: 8.26 min Scan# 2018
Delta R.T. 0.11 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 42527
Ion Ratio Lower Upper
43 100
61 0.0 19.7 29.5#
87 0.0 9.4 14.2#

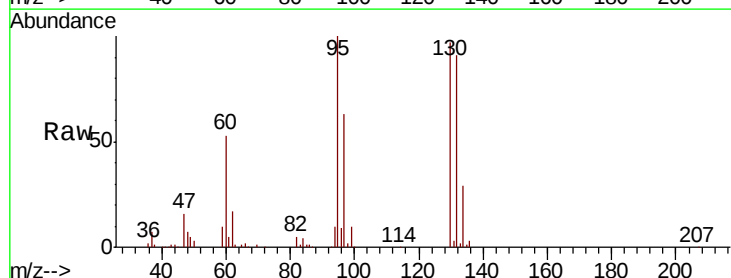


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

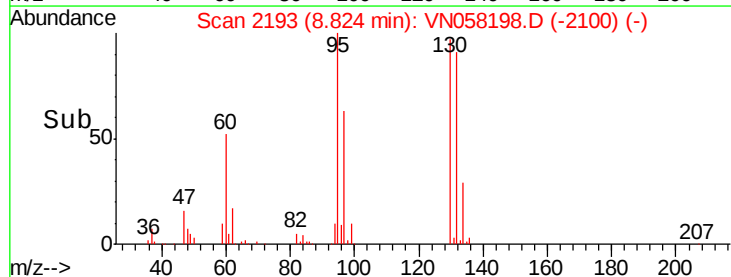
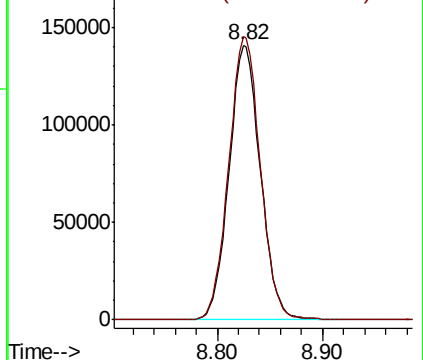


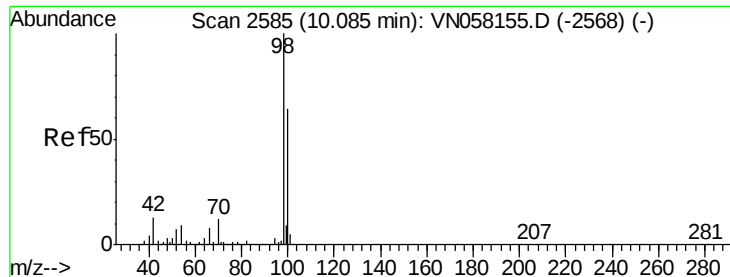
#44
Trichloroethene
Concen: 64.648 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion:130 Resp: 289849
Ion Ratio Lower Upper
130 100
95 103.0 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VN0

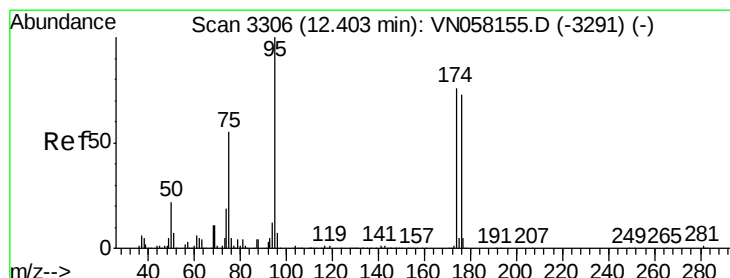
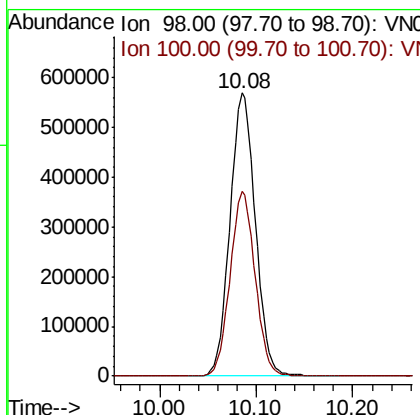
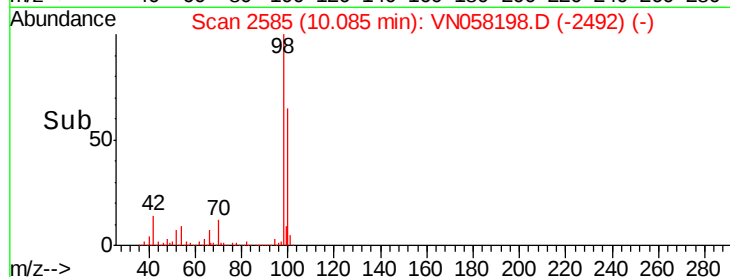
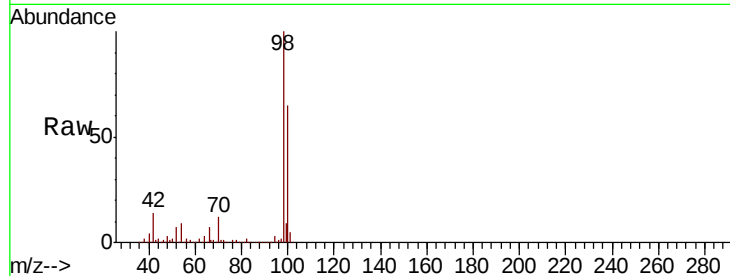




#50
Toluene-d8
Concen: 52.722 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

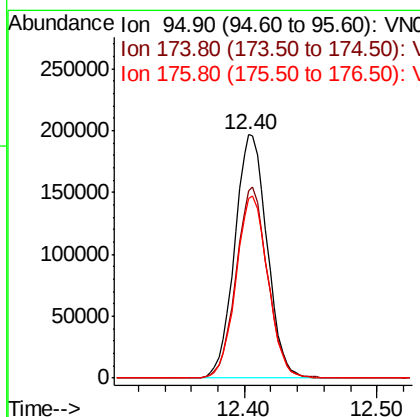
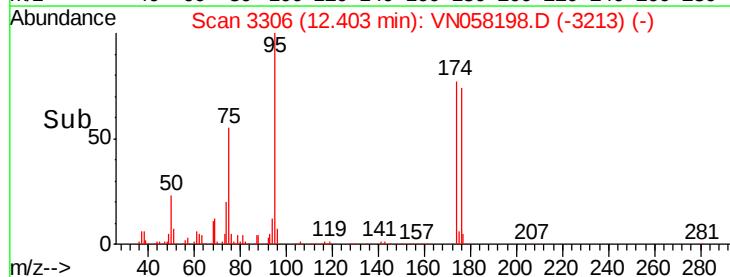
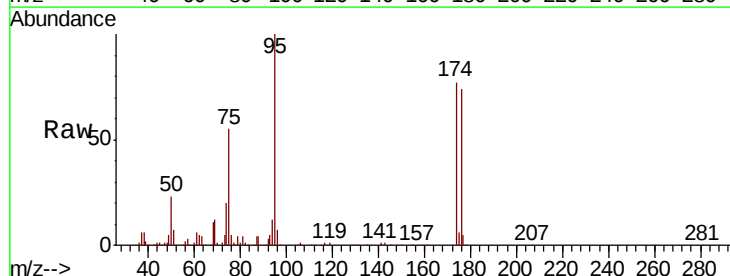
Instrument :
MSVOA_N
ClientSampled :

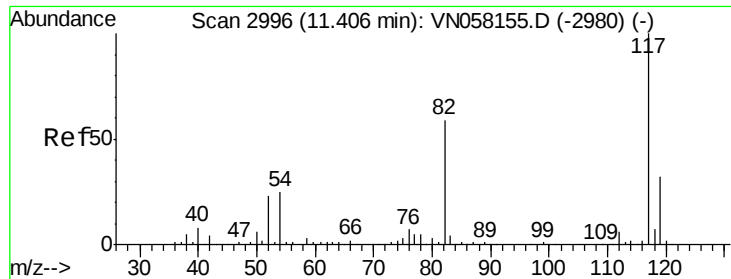
Tot Ion: 98 Resp: 1038718
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 45.557 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion: 95 Resp: 333409
Ion Ratio Lower Upper
95 100
174 76.4 0.0 152.2
176 73.9 0.0 148.0

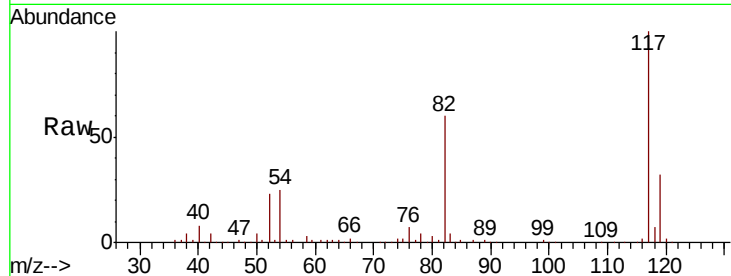




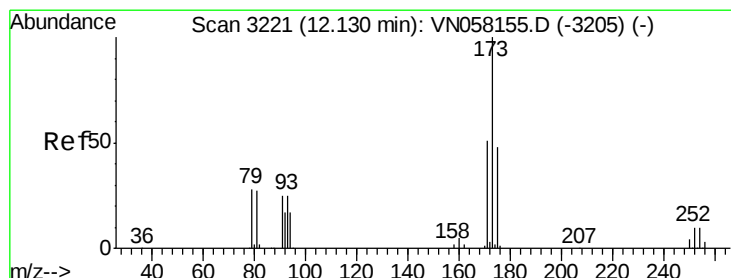
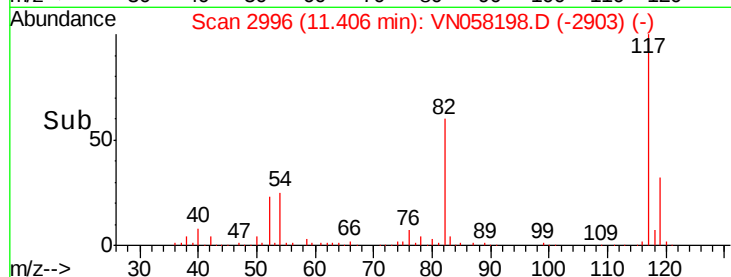
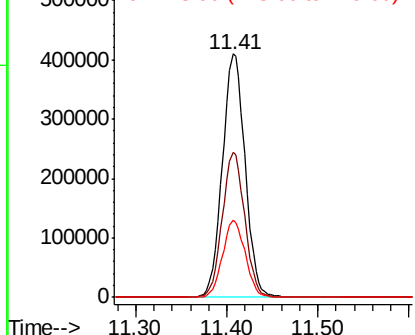
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 710253
Ion Ratio Lower Upper
117 100
82 59.7 46.9 70.3
119 31.5 25.3 37.9

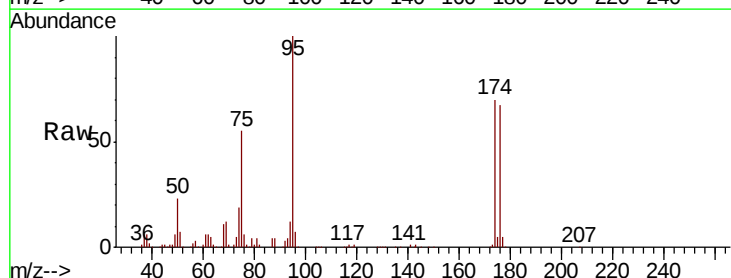


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

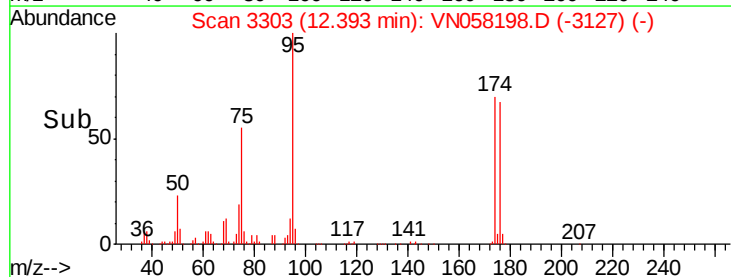
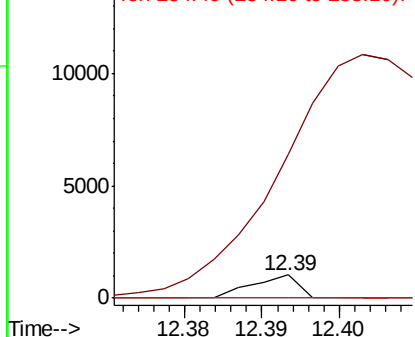


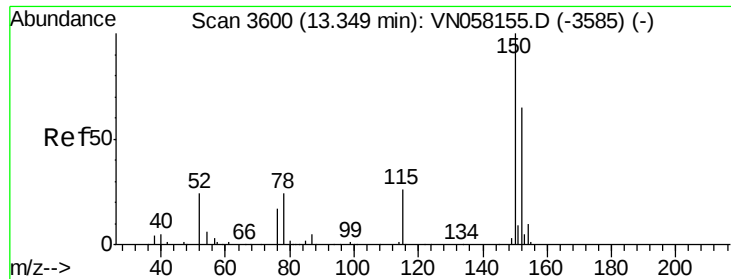
#71
Bromoform
Concen: 3.713 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN058198.D
Acq: 19 Sep 2019 12:22

Tgt Ion:173 Resp: 428
Ion Ratio Lower Upper
173 100
175 3717.5 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: VN058198.D

Acq: 19 Sep 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

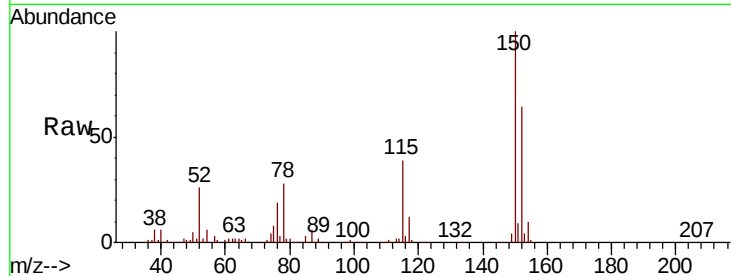
Tot Ion:152 Resp: 289701

Ion Ratio Lower Upper

152 100

115 61.5 30.1 90.3

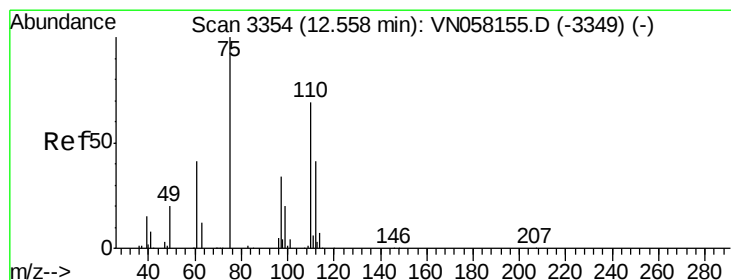
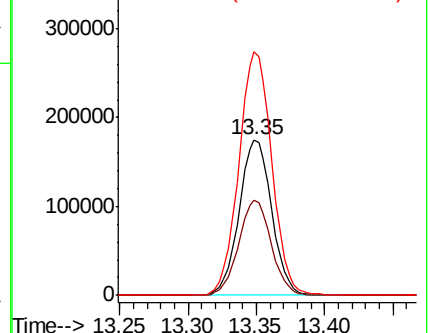
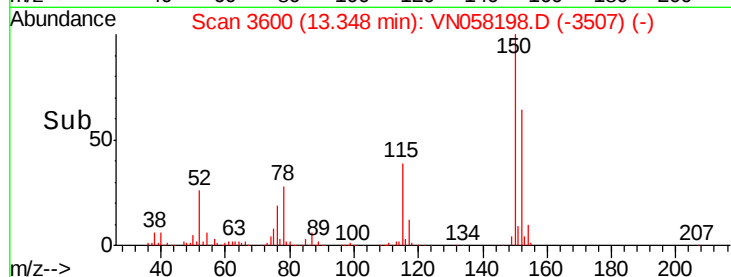
150 158.6 0.0 346.4



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: 35.396 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058198.D

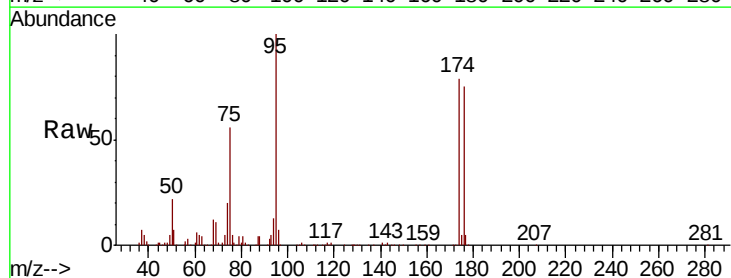
Acq: 19 Sep 2019 12:22

Tgt Ion: 75 Resp: 183517

Ion Ratio Lower Upper

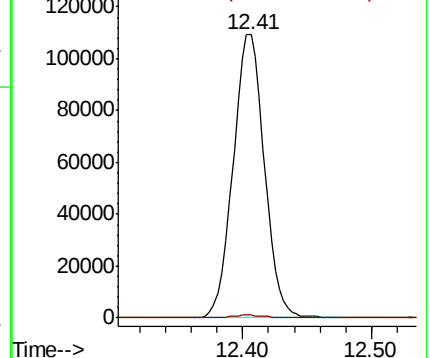
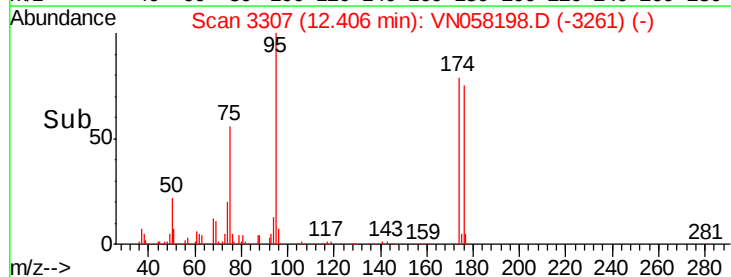
75 100

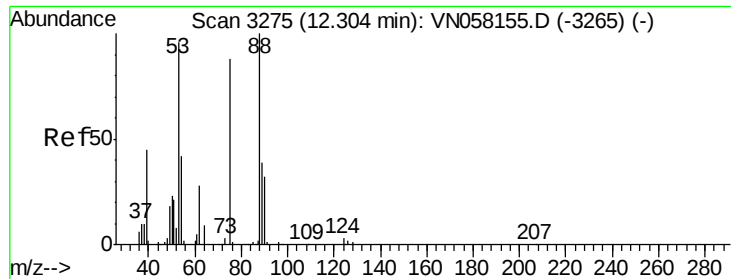
77 0.9 0.0 0.0#



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: 98.949 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058198.D

Acq: 19 Sep 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

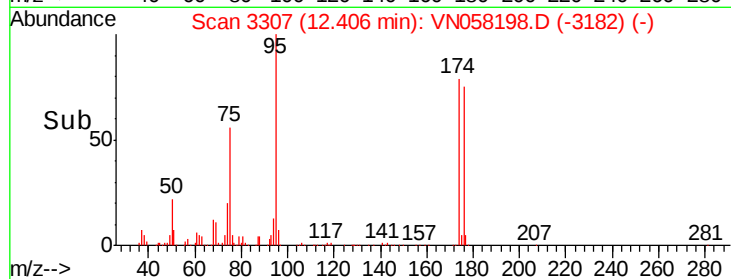
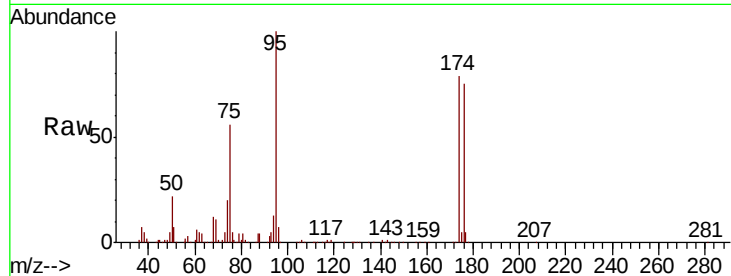
Tot Ion: 75 Resp: 183517

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

