

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101619\
 Data File : VN058806.D
 Acq On : 16 Oct 2019 16:55
 Operator : JC/SP
 Sample : K5396-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7348

Quant Time: Oct 17 01:34:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	388495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	609924	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	538956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207943	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	287433	52.85	ug/l	0.00
Spiked Amount			Recovery	=	105.70%	
35) Dibromofluoromethane	7.57	113	207025	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	
50) Toluene-d8	10.09	98	785254	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	12.41	95	251807	44.16	ug/l	0.00
Spiked Amount			Recovery	=	88.32%	

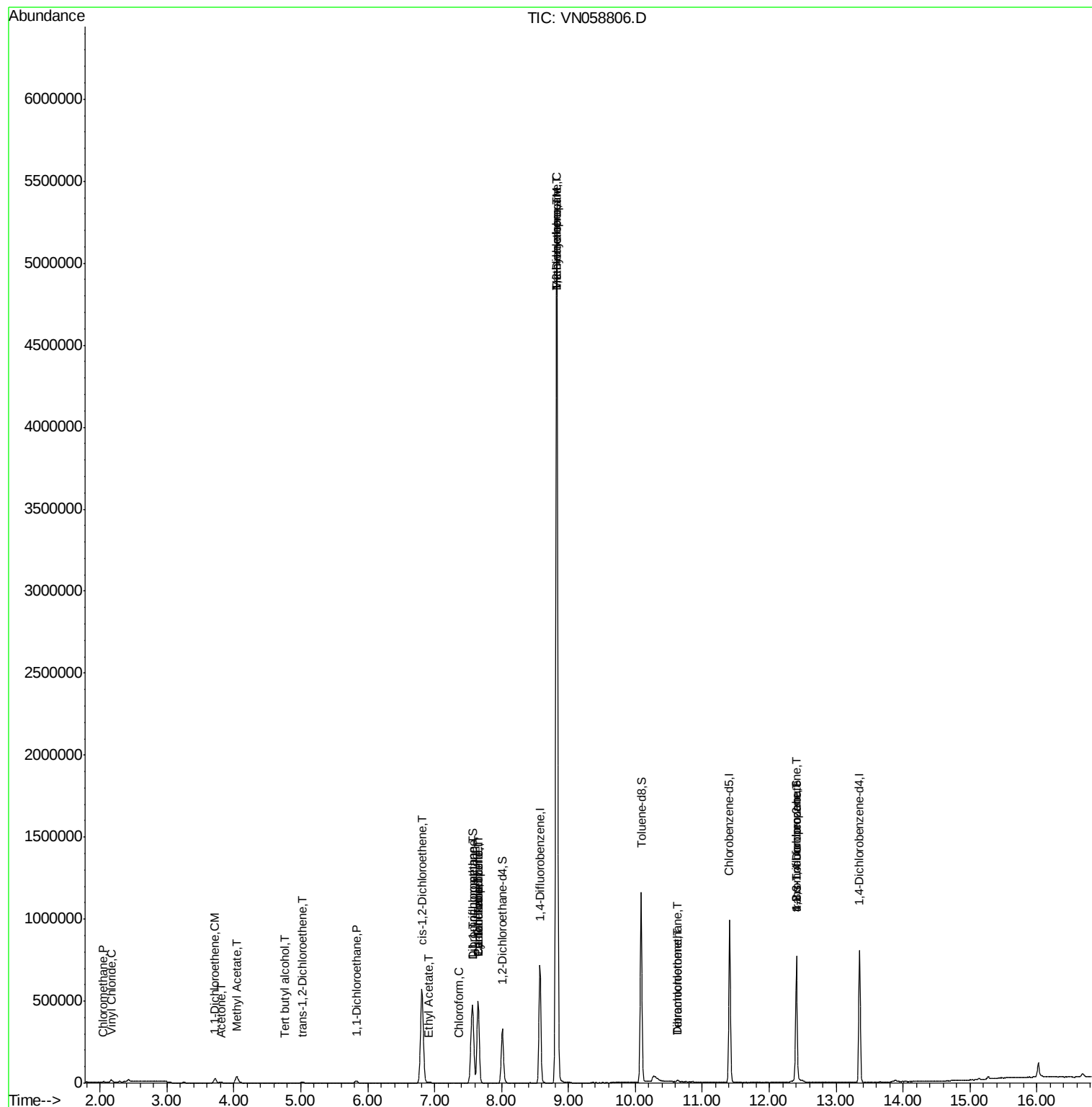
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	2893	0.503	ug/l	97
4) Vinyl Chloride	2.17	62	14014	2.446	ug/l	95
11) Tert butyl alcohol	4.76	59	701	0.796	ug/l #	72
12) 1,1-Dichloroethene	3.72	96	13473	3.611	ug/l	98
16) Acetone	3.81	43	9295	4.128	ug/l	99
18) Methyl Acetate	4.05	43	15441	2.703	ug/l #	54
21) trans-1,2-Dichloroethene	5.02	96	4790	1.148	ug/l	88
24) 1,1-Dichloroethane	5.83	63	17748	2.129	ug/l	97
27) cis-1,2-Dichloroethene	6.81	96	367095	75.431	ug/l	89
30) Chloroform	7.36	83	1785	0.213	ug/l #	59
31) Cyclohexane	7.65	56	9042	1.133	ug/l #	1
32) 1,1,1-Trichloroethane	7.55	97	247428	34.634	ug/l	99
36) 1,1-Dichloropropene	7.65	75	32943	5.342	ug/l #	51
37) Ethyl Acetate	6.92	43	4162	0.667	ug/l #	69
38) Carbon Tetrachloride	7.65	117	38835	6.462	ug/l #	17
39) Methylcyclohexane	8.82	83	23892	3.339	ug/l #	1
44) Trichloroethene	8.82	130	1883012	428.134	ug/l	100
45) 1,2-Dichloropropane	8.82	63	5049	1.065	ug/l #	1
60) Dibromochloromethane	10.63	129	2112	0.462	ug/l #	11
64) Tetrachloroethene	10.63	164	2303	0.611	ug/l	95
76) 1,2,3-Trichloropropane	12.41	75	134758	29.541	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	134758	79.130	ug/l #	11

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

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QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

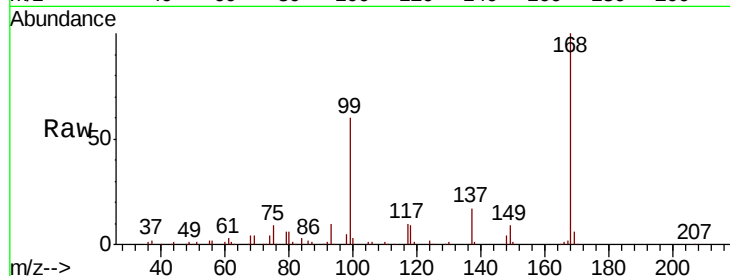
FA19-JBW7348

Tot Ion:168 Resp: 388495

Ion Ratio Lower Upper

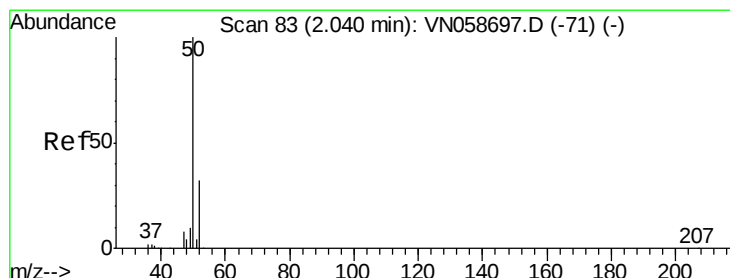
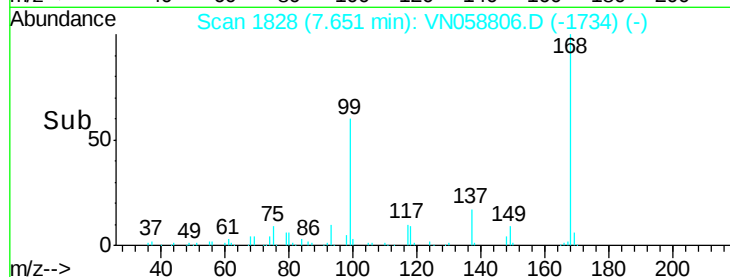
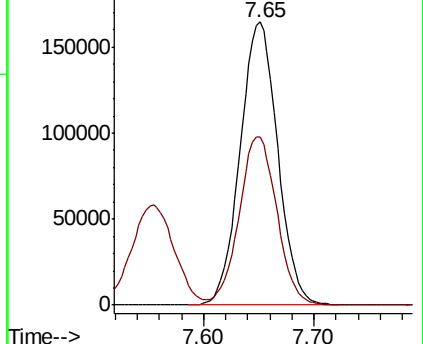
168 100

99 59.3 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.503 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.01 min

Lab File: VN058806.D

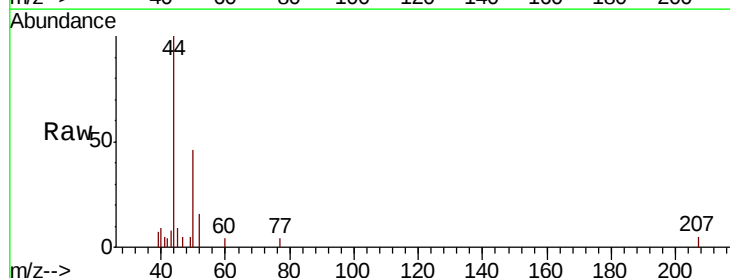
Acq: 16 Oct 2019 16:55

Tgt Ion: 50 Resp: 2893

Ion Ratio Lower Upper

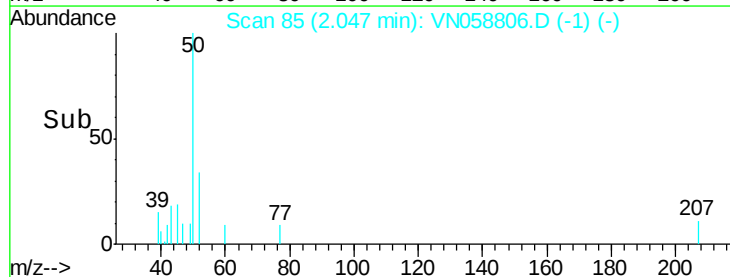
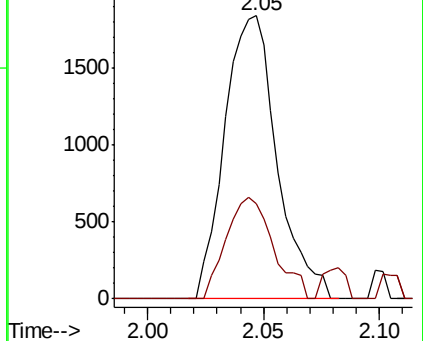
50 100

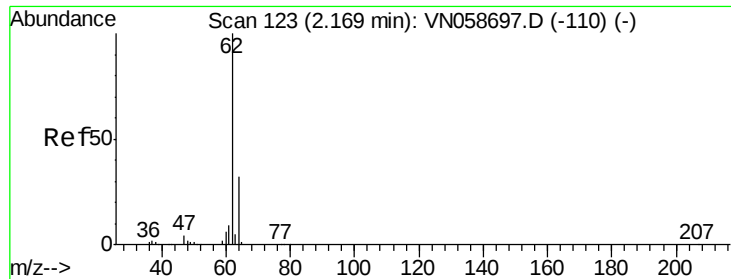
52 33.8 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#4

Vinyl Chloride

Concen: 2.446 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

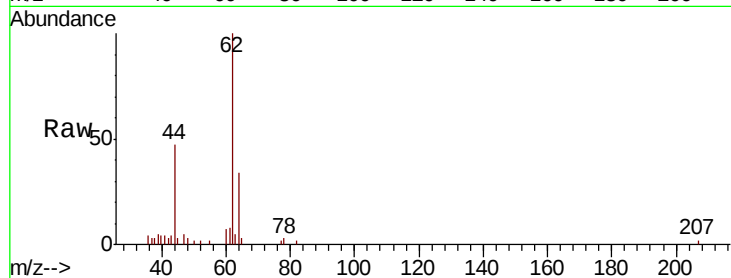
FA19-JBW7348

Tot Ion: 62 Resp: 14014

Ion Ratio Lower Upper

62 100

64 34.3 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

10000

8000

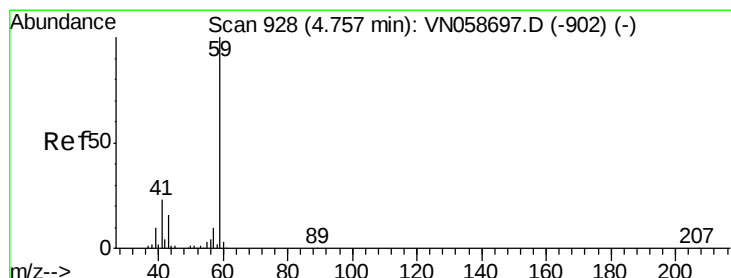
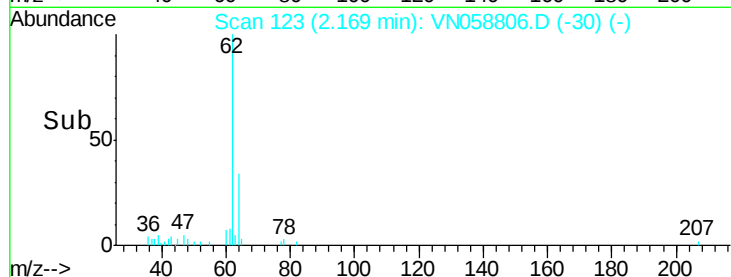
6000

4000

2000

0

Time--> 2.10 2.15 2.20 2.25



#11

Tert butyl alcohol

Concen: 0.796 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN058806.D

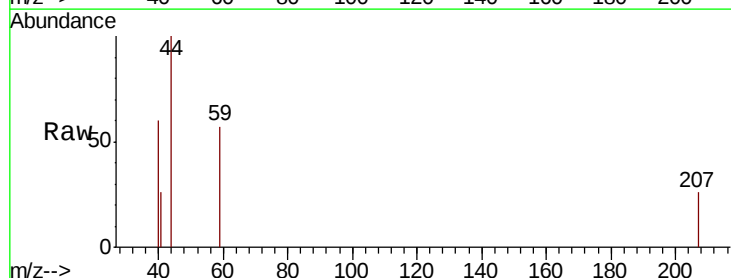
Acq: 16 Oct 2019 16:55

Tgt Ion: 59 Resp: 701

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.76

500

400

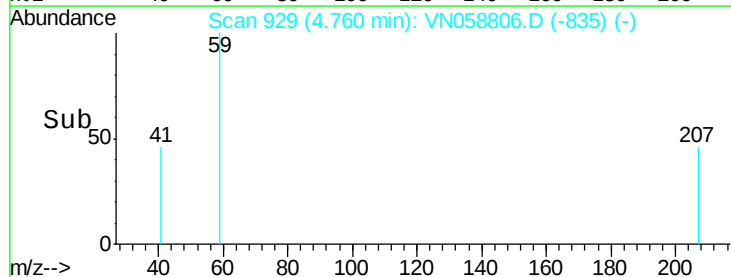
300

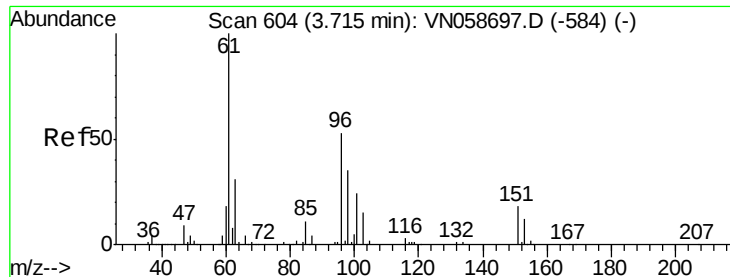
200

100

0

Time--> 4.70 4.72 4.74 4.76 4.78





#12

1,1-Dichloroethene

Concen: 3.611 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7348

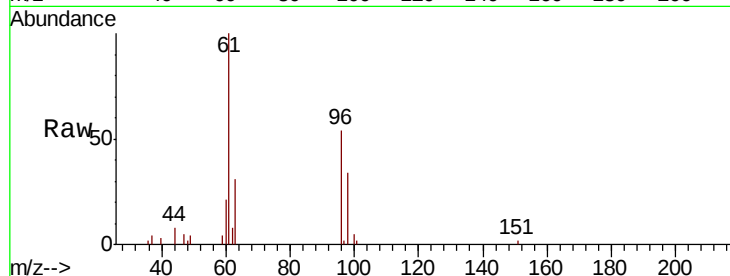
Tot Ion: 96 Resp: 13473

Ion Ratio Lower Upper

96 100

61 186.2 151.3 226.9

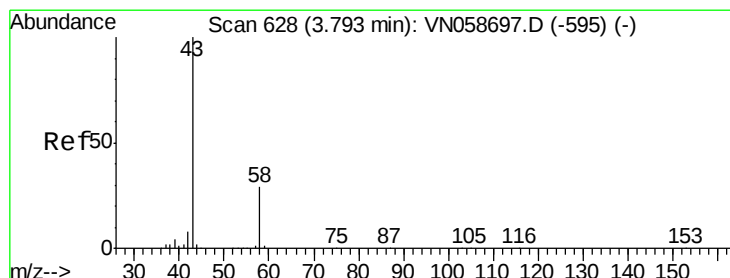
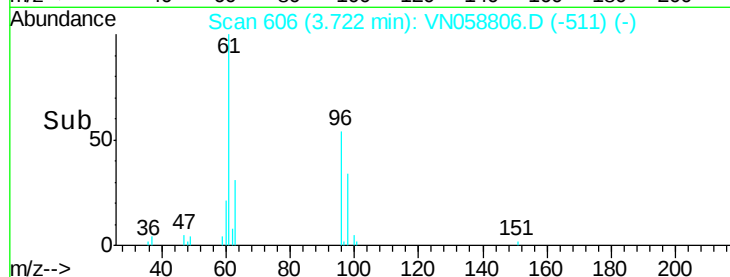
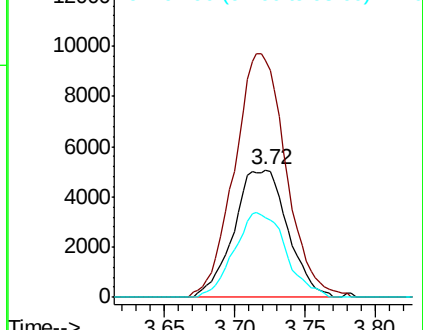
98 62.7 52.6 78.8



Abundance Ion 95.90 (95.60 to 96.60): VN058806.D (-511) (-)

Ion 60.90 (60.60 to 61.60): VN058806.D (-511) (-)

Ion 97.90 (97.60 to 98.60): VN058806.D (-511) (-)



#16

Acetone

Concen: 4.128 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058806.D

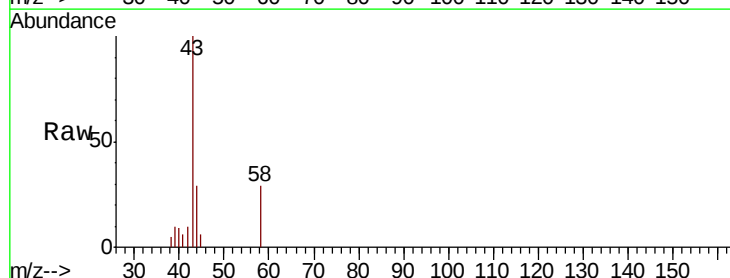
Acq: 16 Oct 2019 16:55

Tgt Ion: 43 Resp: 9295

Ion Ratio Lower Upper

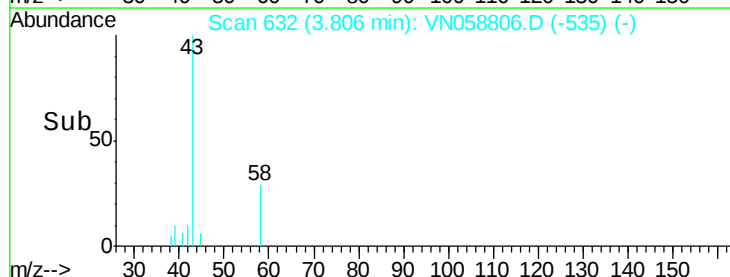
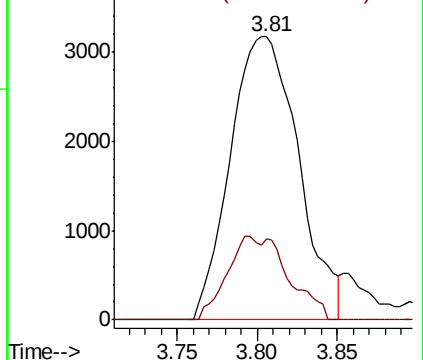
43 100

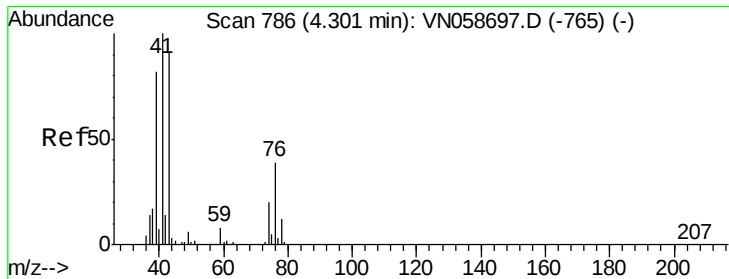
58 28.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058806.D (-535) (-)

Ion 58.00 (57.70 to 58.70): VN058806.D (-535) (-)

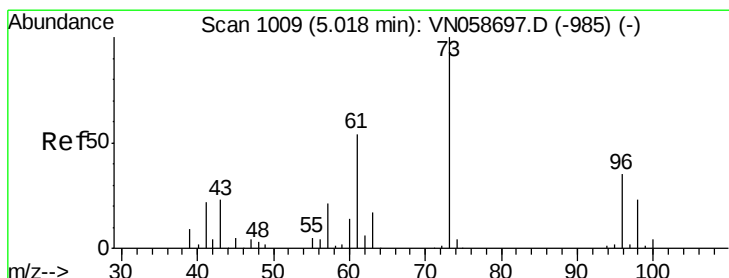
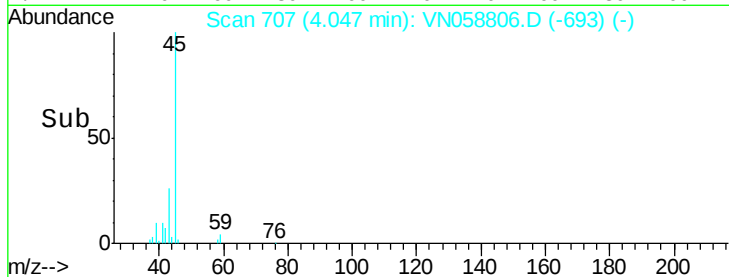
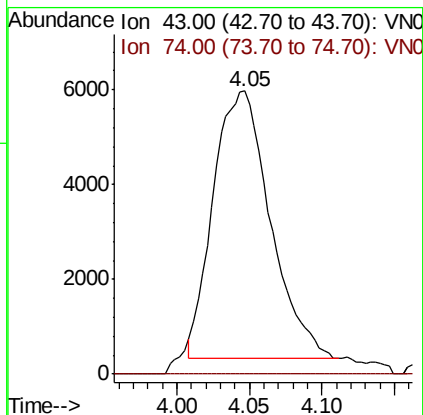
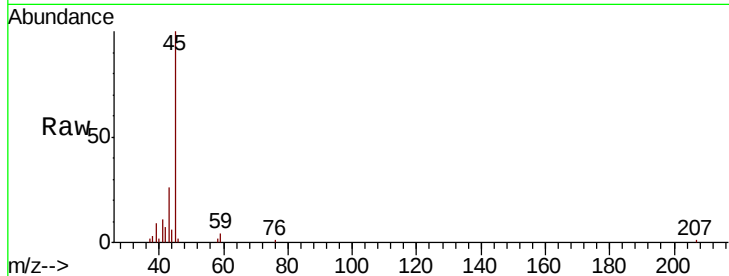




#18
Methyl Acetate
Concen: 2.703 ug/l
RT: 4.05 min Scan# 707
Delta R.T. -0.25 min
Lab File: VN058806.D
Acq: 16 Oct 2019 16:55

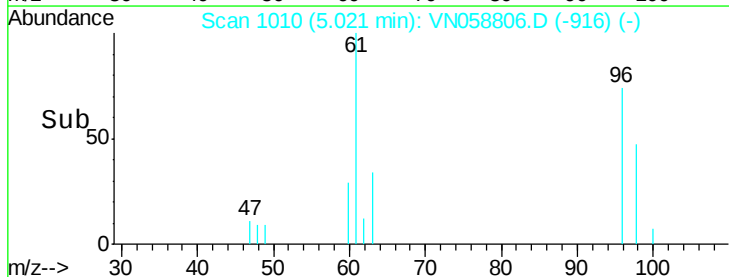
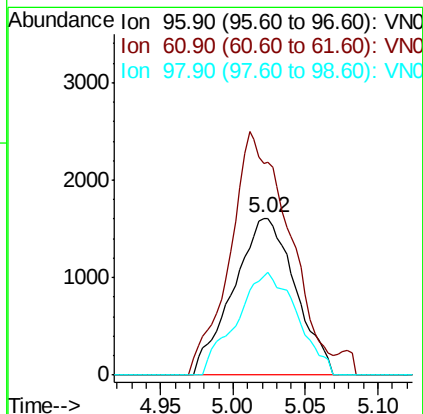
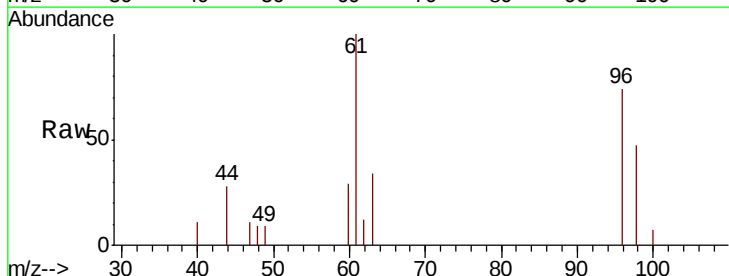
Instrument :
MSVOA_N
ClientSampled :
FA19-JBW7348

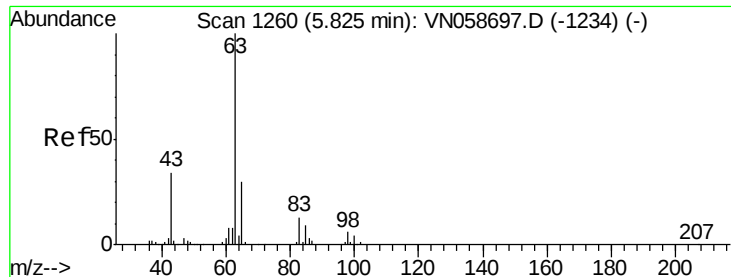
Tot Ion: 43 Resp: 15441
Ion Ratio Lower Upper
43 100
74 0.0 17.2 25.8#



#21
trans-1,2-Dichloroethene
Concen: 1.148 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058806.D
Acq: 16 Oct 2019 16:55

Tgt Ion: 96 Resp: 4790
Ion Ratio Lower Upper
96 100
61 134.6 123.6 185.4
98 63.1 52.1 78.1





#24

1,1-Dichloroethane

Concen: 2.129 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7348

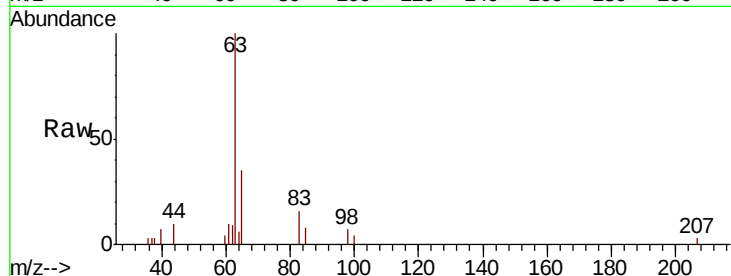
Tot Ion: 63 Resp: 17748

Ion Ratio Lower Upper

63 100

98 6.8 2.9 8.6

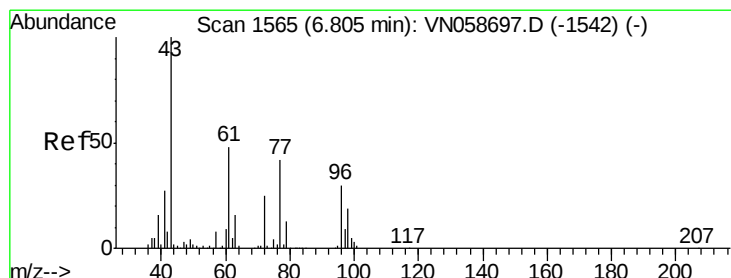
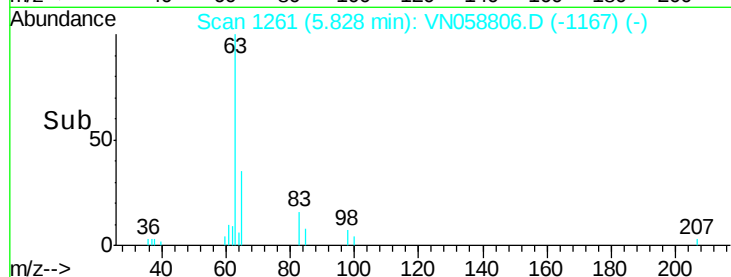
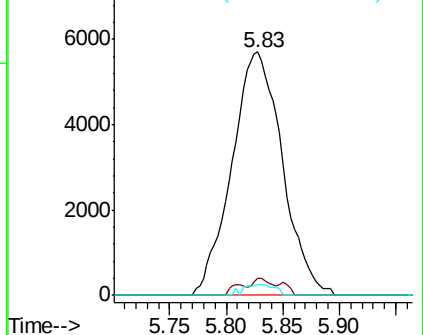
100 4.2 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VN058806.D (-1167) (-)

Ion 97.90 (97.60 to 98.60): VN058806.D (-1167) (-)

Ion 99.90 (99.60 to 100.60): VN058806.D (-1167) (-)



#27

cis-1,2-Dichloroethene

Concen: 75.431 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

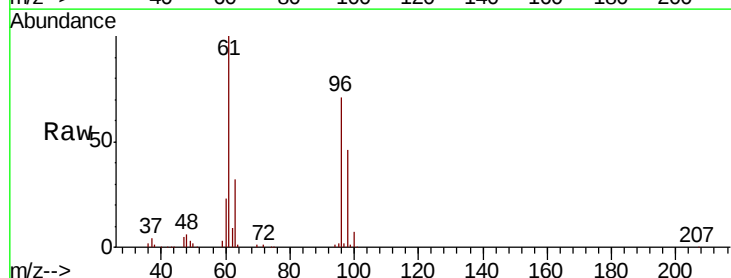
Tgt Ion: 96 Resp: 367095

Ion Ratio Lower Upper

96 100

61 142.0 0.0 324.8

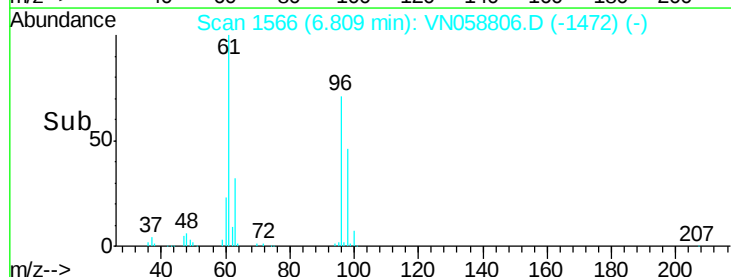
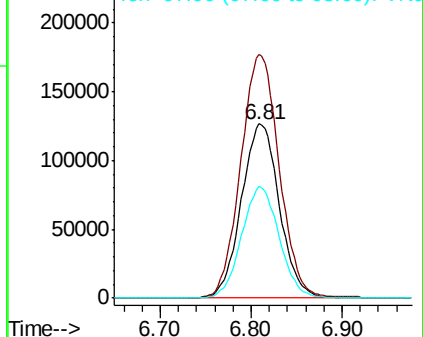
98 63.4 0.0 129.2

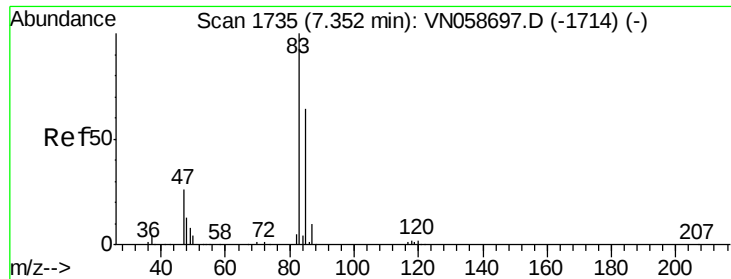


Abundance Ion 95.90 (95.60 to 96.60): VN058806.D (-1472) (-)

Ion 60.90 (60.60 to 61.60): VN058806.D (-1472) (-)

Ion 97.90 (97.60 to 98.60): VN058806.D (-1472) (-)

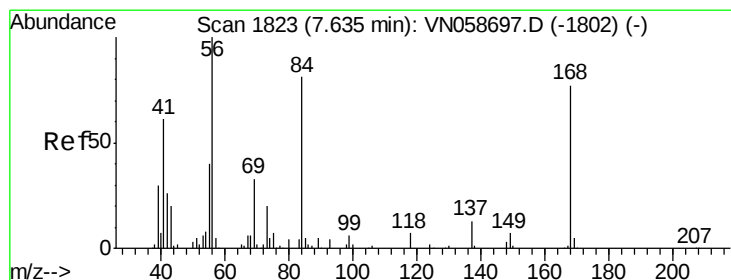
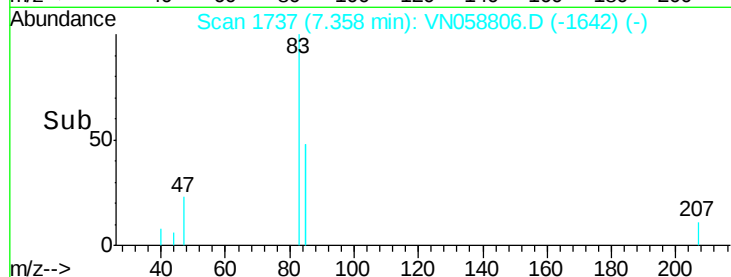
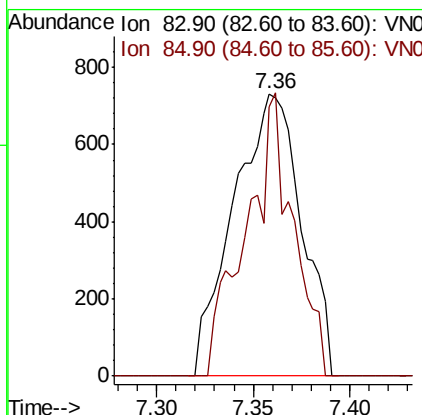
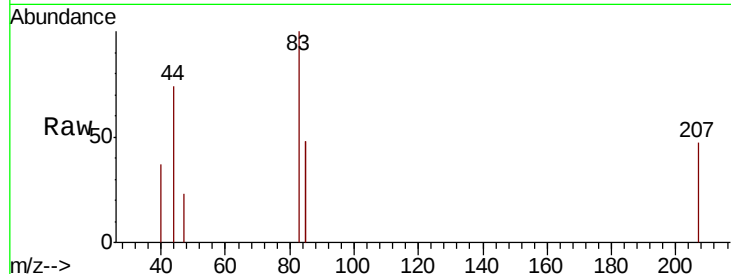




#30
 Chloroform
 Concen: 0.213 ug/l
 RT: 7.36 min Scan# 1737
 Delta R.T. 0.01 min
 Lab File: VN058806.D
 Acq: 16 Oct 2019 16:55

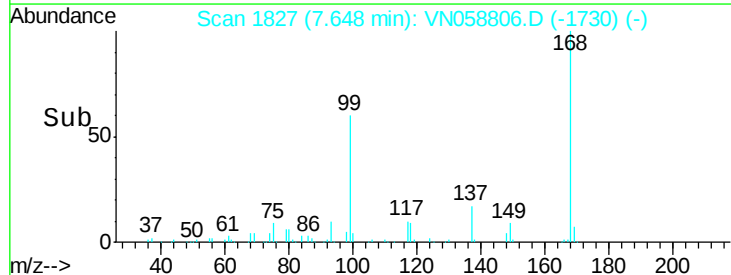
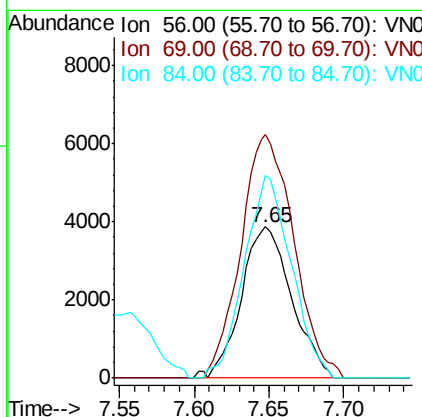
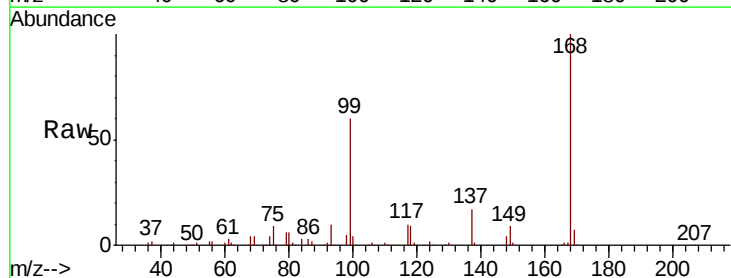
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7348

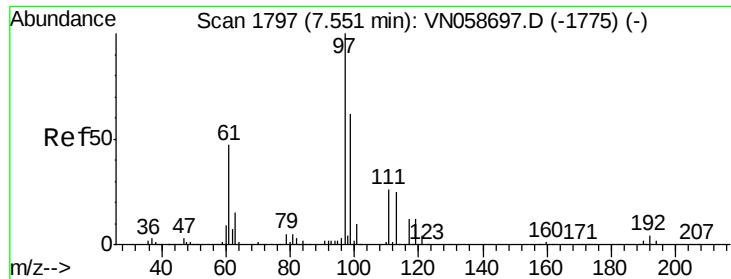
Tot Ion: 83 Resp: 1785
 Ion Ratio Lower Upper
 83 100
 85 95.5 51.0 76.6#



#31
 Cyclohexane
 Concen: 1.133 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VN058806.D
 Acq: 16 Oct 2019 16:55

Tgt Ion: 56 Resp: 9042
 Ion Ratio Lower Upper
 56 100
 69 160.9 26.2 39.4#
 84 134.1 64.9 97.3#





#32

1,1,1-Trichloroethane

Concen: 34.634 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7348

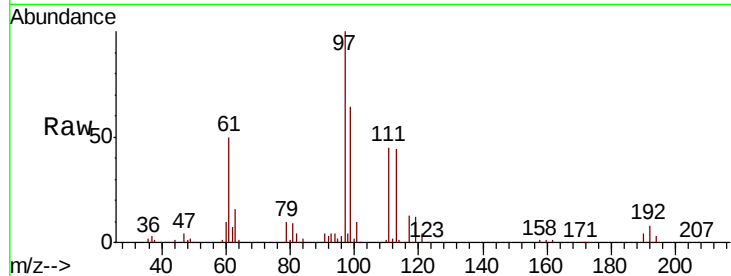
Tot Ion: 97 Resp: 247428

Ion Ratio Lower Upper

97 100

99 63.8 50.8 76.2

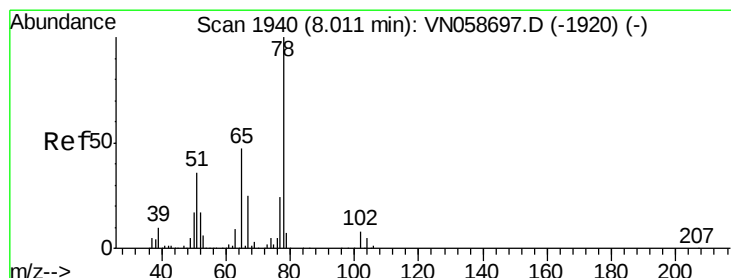
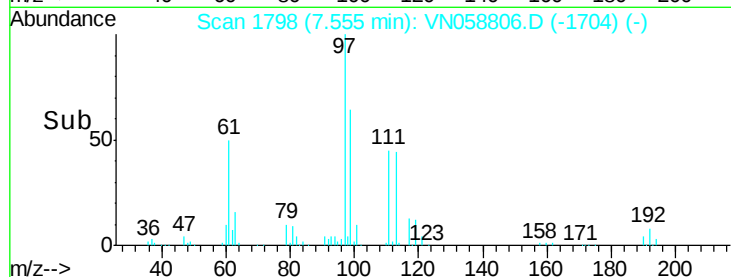
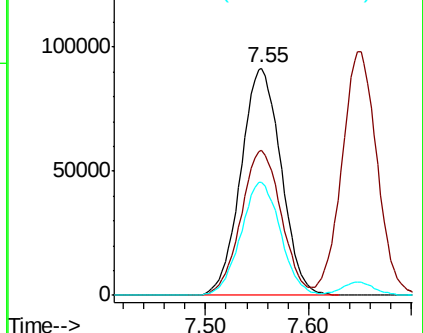
61 49.2 38.1 57.1



Abundance Ion 96.90 (96.60 to 97.60): VN058697.D (-1775) (-)

Ion 98.90 (98.60 to 99.60): VN058697.D (-1775) (-)

Ion 60.90 (60.60 to 61.60): VN058697.D (-1775) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.848 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058806.D

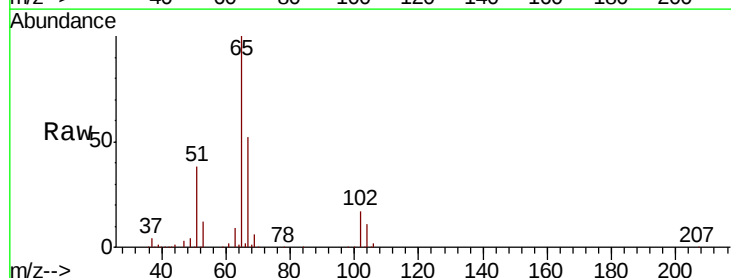
Acq: 16 Oct 2019 16:55

Tgt Ion: 65 Resp: 287433

Ion Ratio Lower Upper

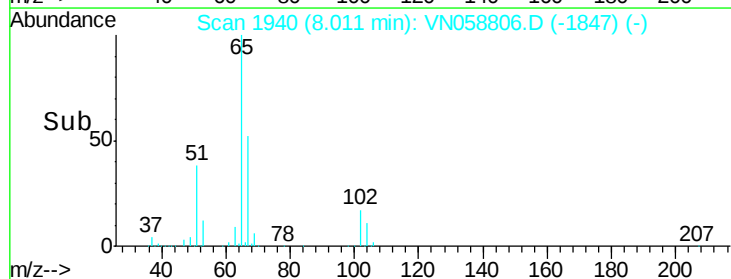
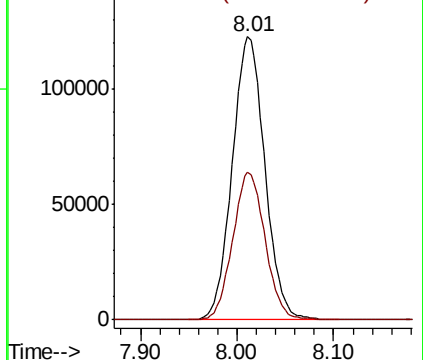
65 100

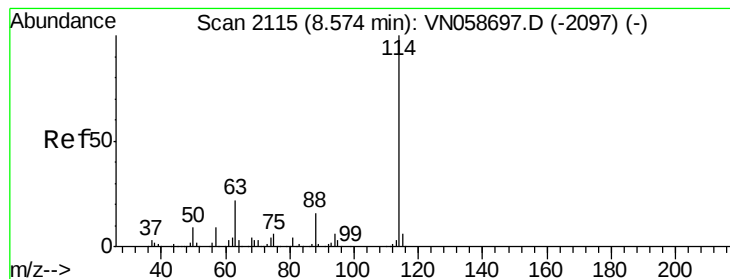
67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN058697.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN058697.D (-1920) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7348

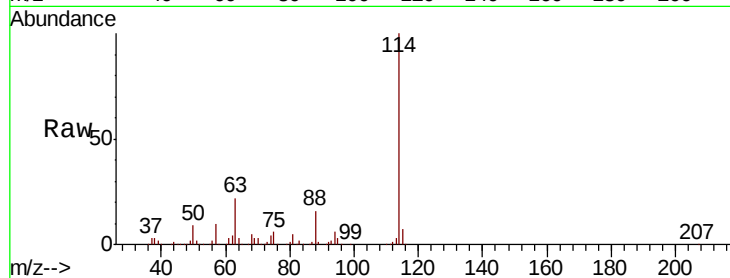
Tot Ion:114 Resp: 609924

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

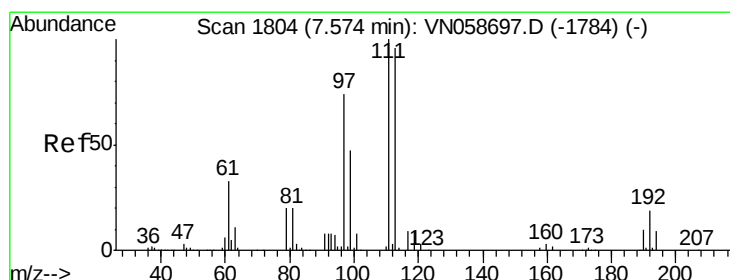
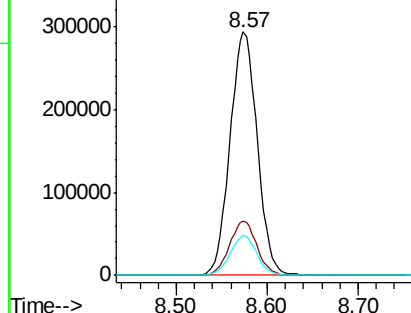
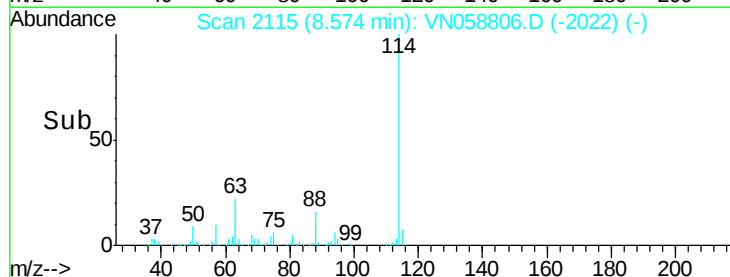
88 16.4 0.0 32.0



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: 54.952 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

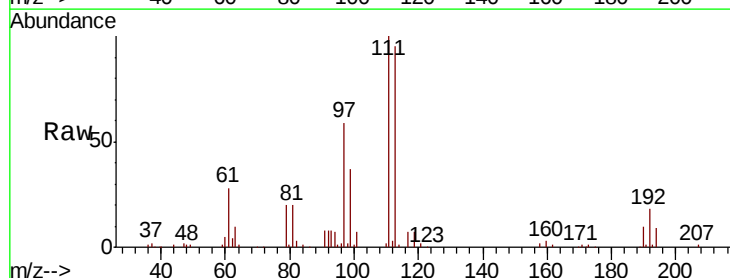
Tgt Ion:113 Resp: 207025

Ion Ratio Lower Upper

113 100

111 103.6 82.3 123.5

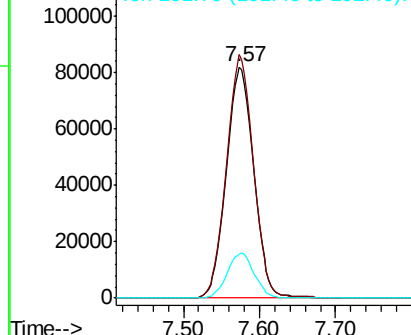
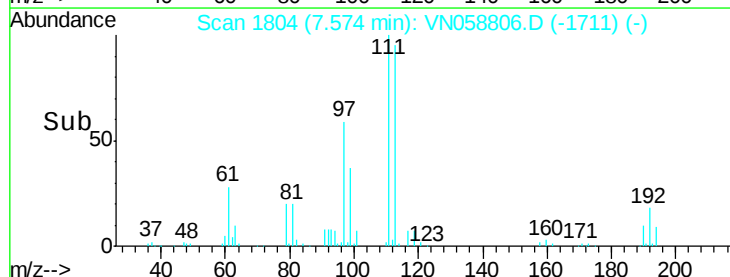
192 19.3 15.0 22.6

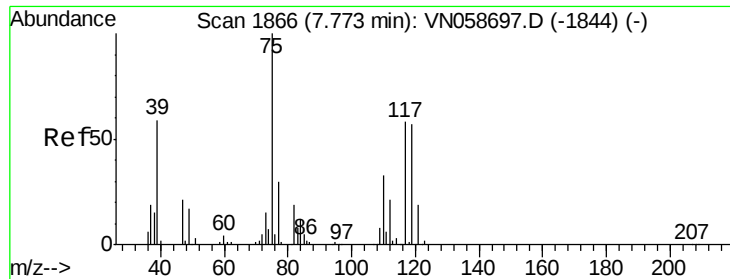


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.342 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7348

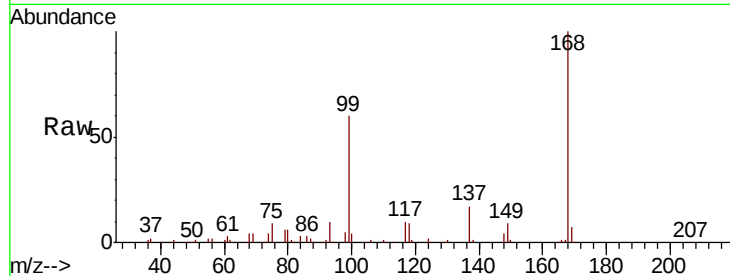
Tot Ion: 75 Resp: 32943

Ion Ratio Lower Upper

75 100

110 9.3 16.6 49.8#

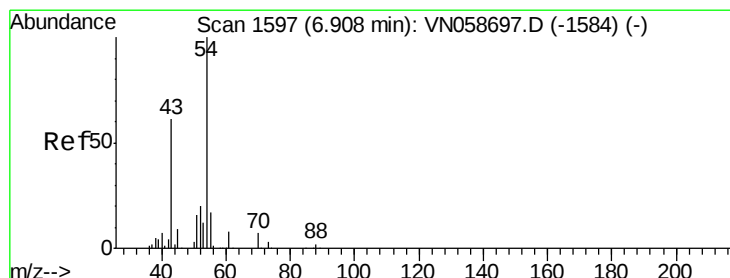
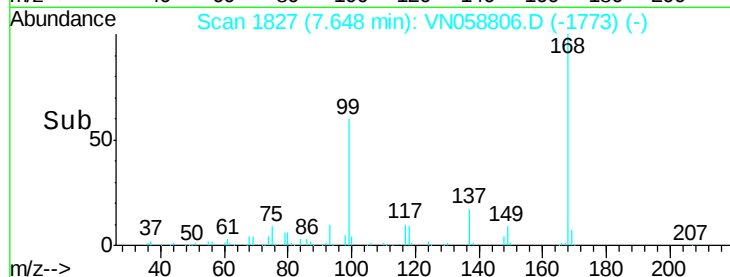
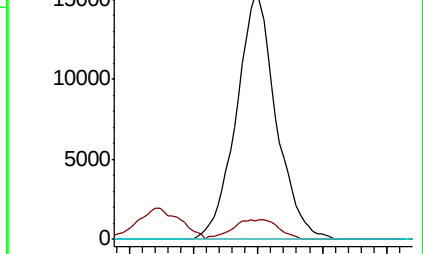
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): VNO

Ion 76.90 (76.60 to 77.60): VNO



#37

Ethyl Acetate

Concen: 0.667 ug/l

RT: 6.92 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

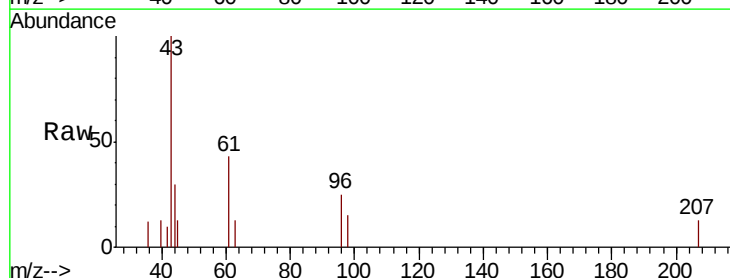
Tgt Ion: 43 Resp: 4162

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

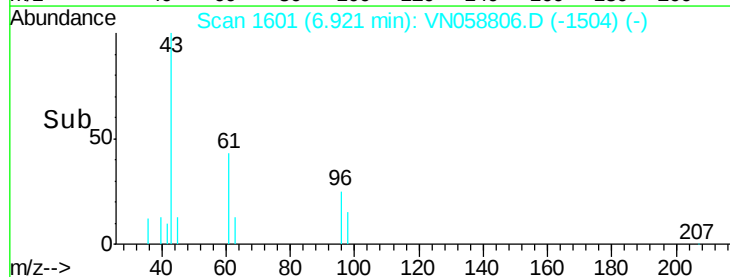
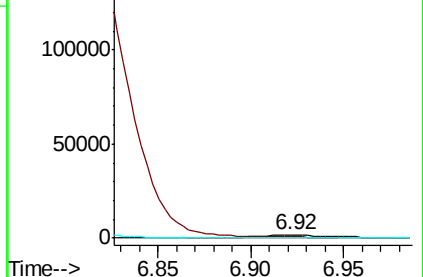
70 0.0 7.2 10.8#

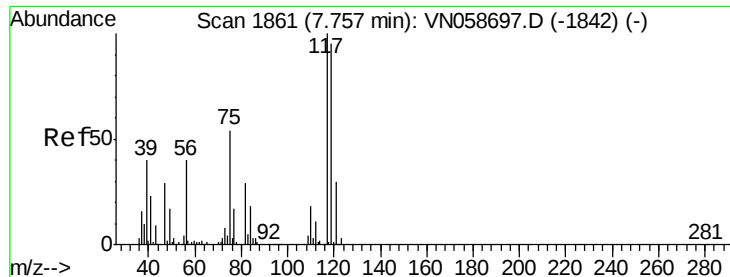


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 70.00 (69.70 to 70.70): VNO

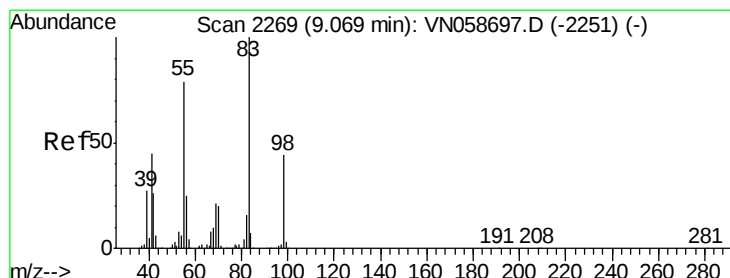
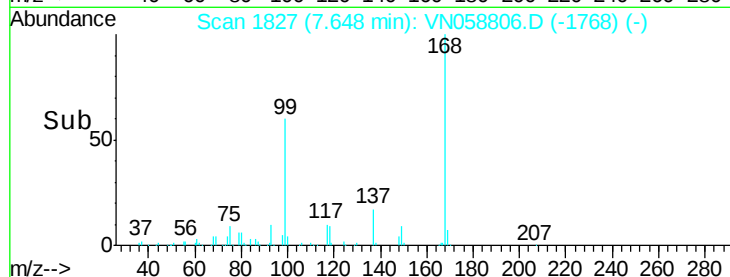
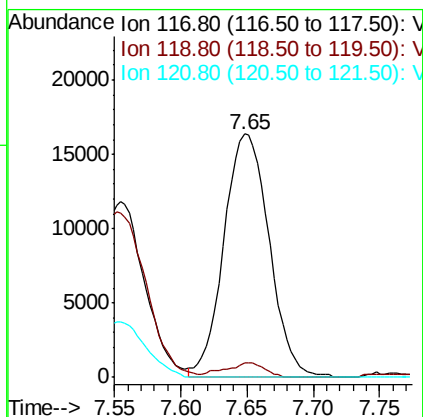
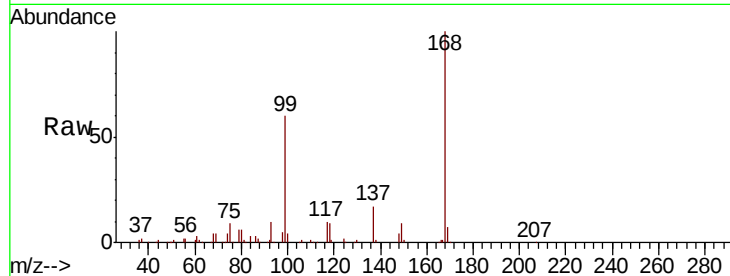




#38
Carbon Tetrachloride
Concen: 6.462 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058806.D
Acq: 16 Oct 2019 16:55

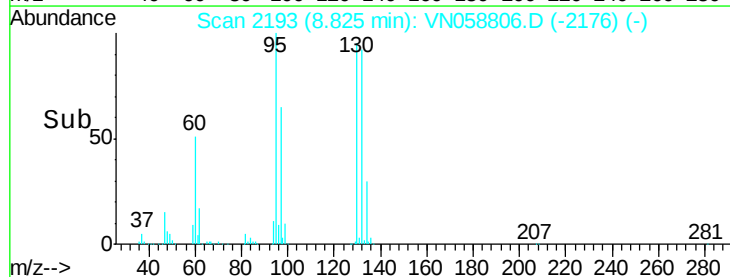
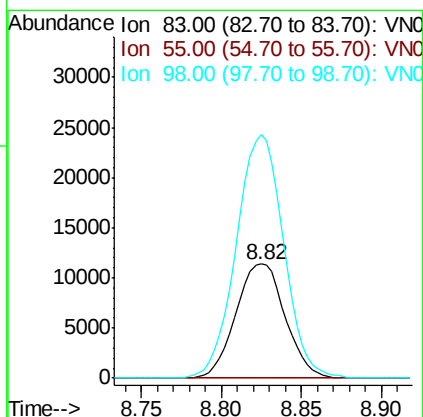
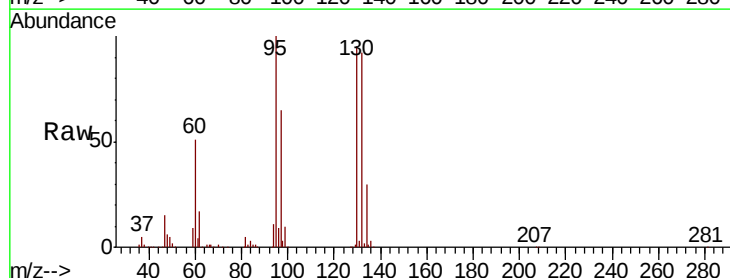
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7348

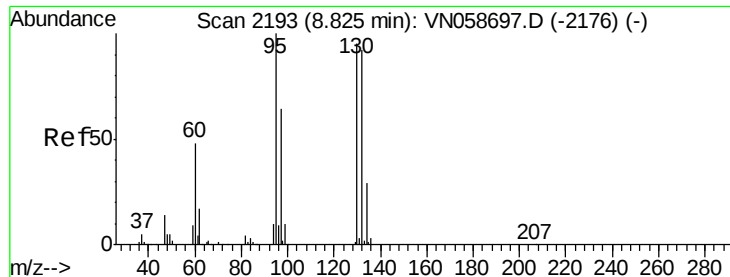
Tot Ion:117 Resp: 38835
Ion Ratio Lower Upper
117 100
119 5.8 75.7 113.5#
121 0.0 23.9 35.9#



#39
Methylcyclohexane
Concen: 3.339 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058806.D
Acq: 16 Oct 2019 16:55

Tgt Ion: 83 Resp: 23892
Ion Ratio Lower Upper
83 100
55 0.0 63.4 95.0#
98 212.2 35.1 52.7#

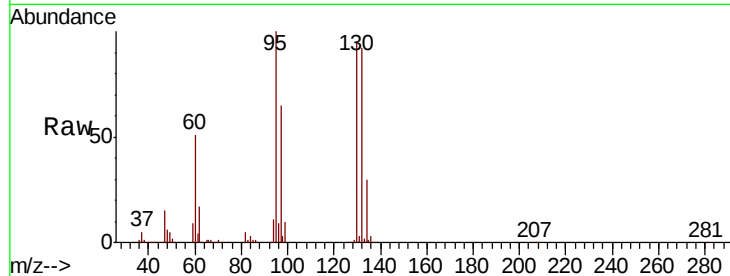




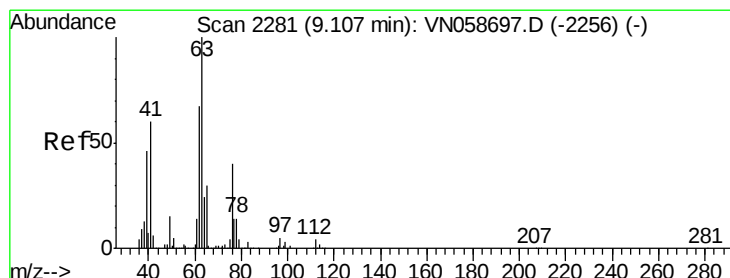
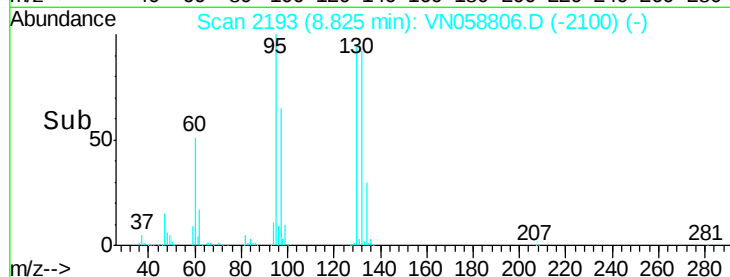
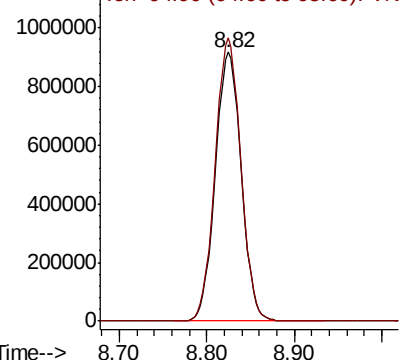
#44
 Trichloroethene
 Concen: 428.134 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VN058806.D
 Acq: 16 Oct 2019 16:55

Instrument :
 MSVOA_N
 ClientSampled :
 FA19-JBW7348

Tot Ion:130 Resp: 1883012
 Ion Ratio Lower Upper
 130 100
 95 105.1 0.0 211.2

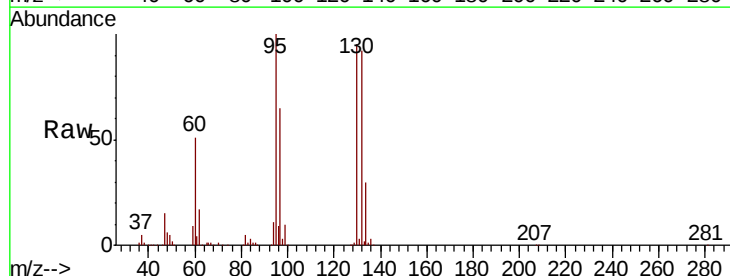


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

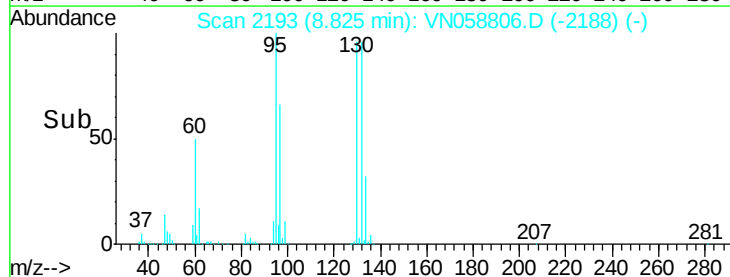
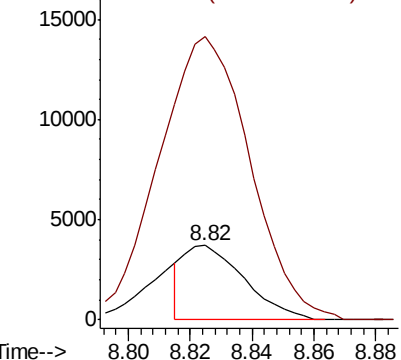


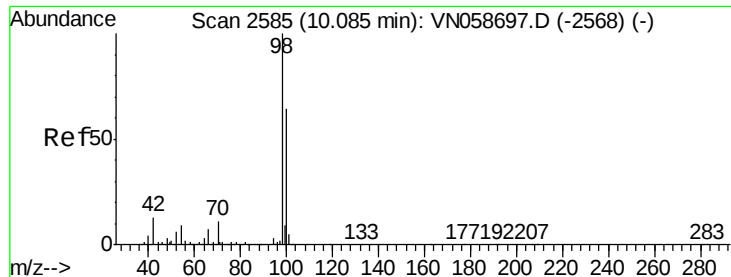
#45
 1,2-Dichloropropane
 Concen: 1.065 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. -0.28 min
 Lab File: VN058806.D
 Acq: 16 Oct 2019 16:55

Tgt Ion: 63 Resp: 5049
 Ion Ratio Lower Upper
 63 100
 65 370.3 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN
 Ion 64.90 (64.60 to 65.60): VN





#50

Toluene-d8

Concen: 52.124 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

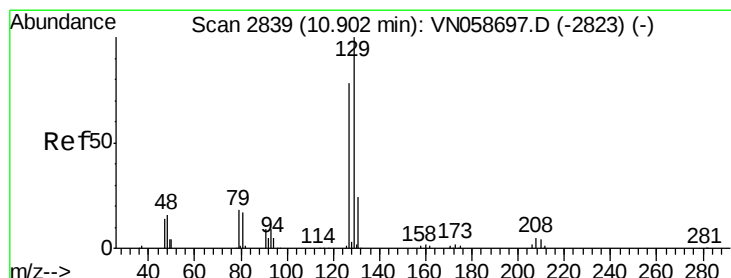
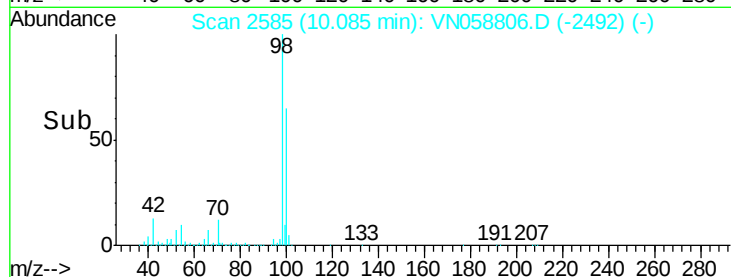
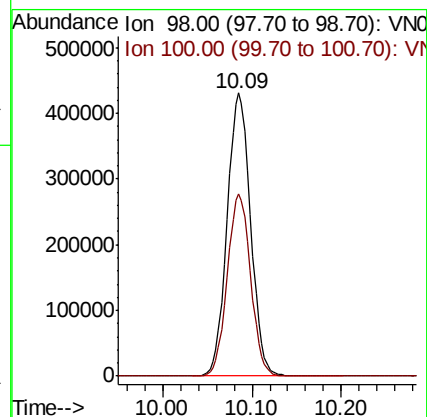
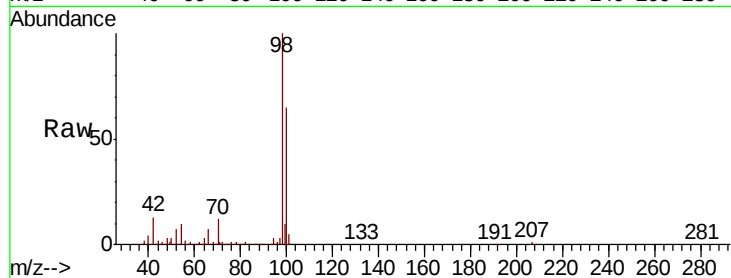
FA19-JBW7348

Tot Ion: 98 Resp: 785254

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#60

Dibromochloromethane

Concen: 0.462 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.28 min

Lab File: VN058806.D

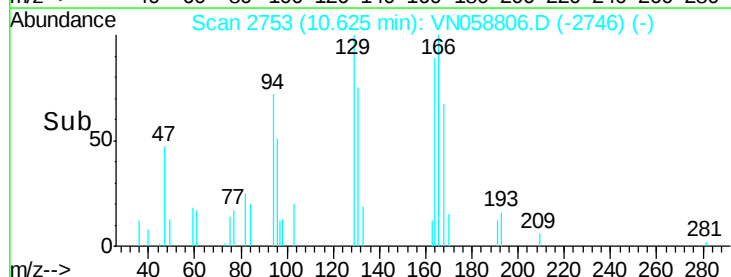
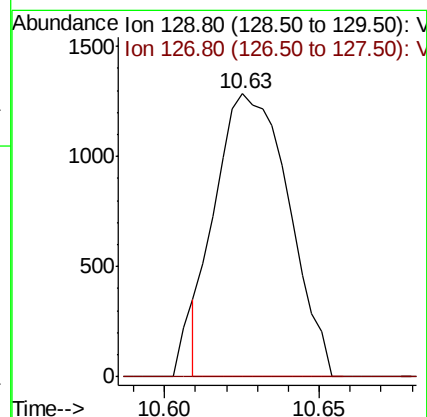
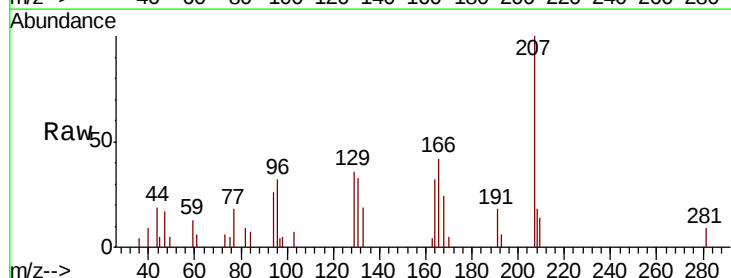
Acq: 16 Oct 2019 16:55

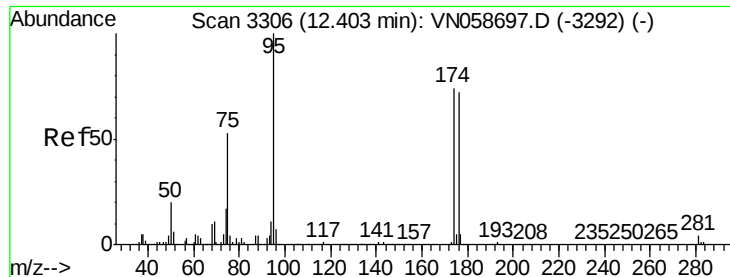
Tgt Ion: 129 Resp: 2112

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 44.157 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7348

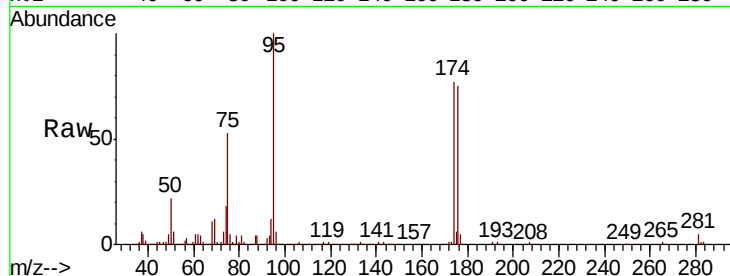
Tot Ion: 95 Resp: 251807

Ion Ratio Lower Upper

95 100

174 76.6 0.0 150.4

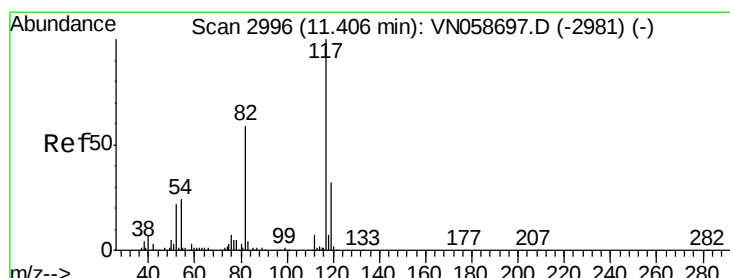
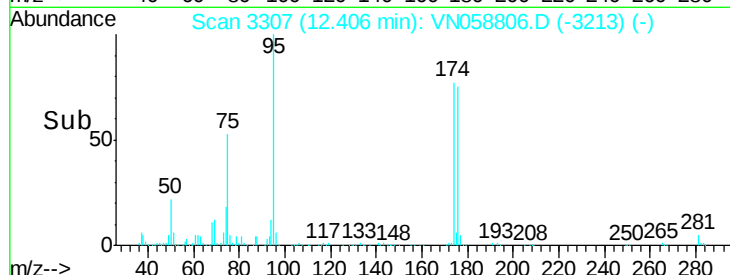
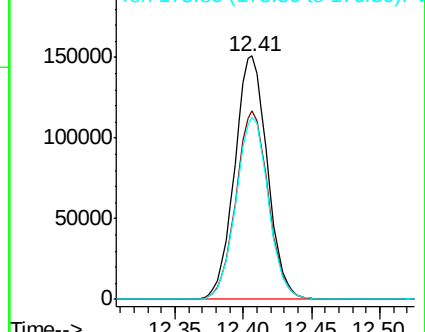
176 74.2 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN058806.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058806.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058806.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

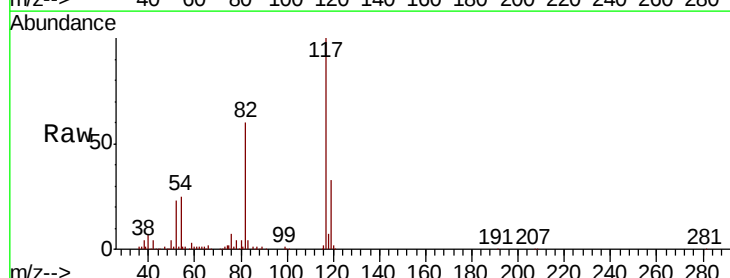
Tgt Ion: 117 Resp: 538956

Ion Ratio Lower Upper

117 100

82 59.6 47.0 70.4

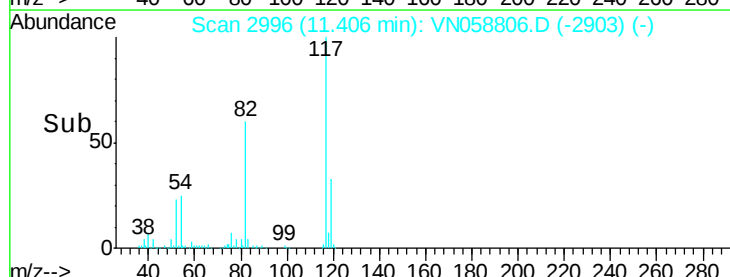
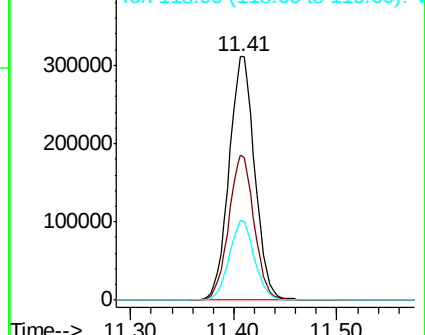
119 32.7 25.4 38.2

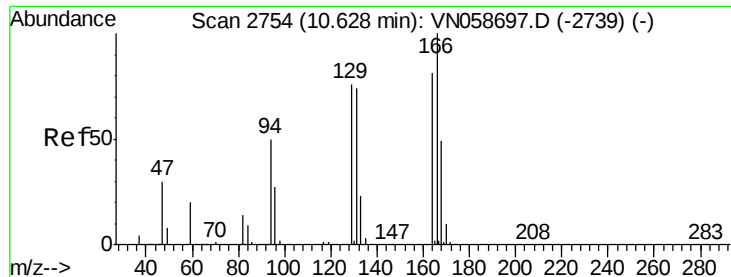


Abundance Ion 116.90 (116.60 to 117.60): VN058806.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058806.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058806.D (-2903) (-)

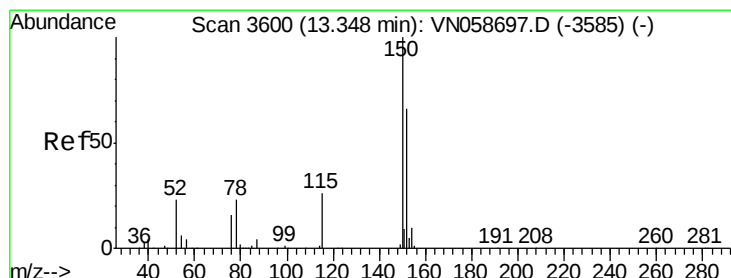
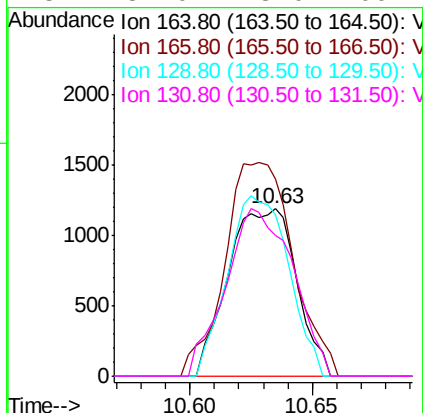
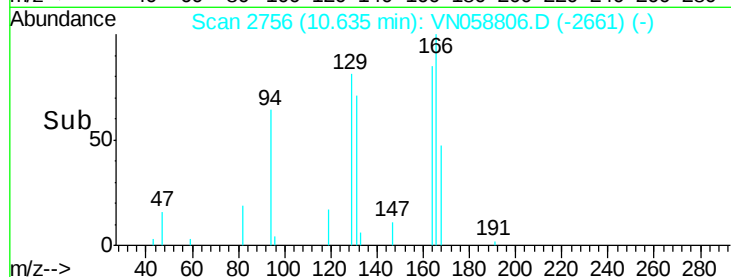
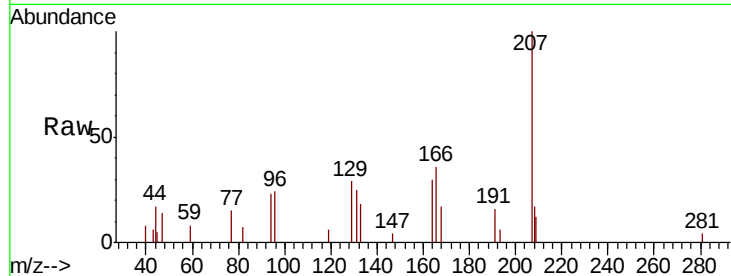




#64
Tetrachloroethene
Concen: 0.611 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.01 min
Lab File: VN058806.D
Acq: 16 Oct 2019 16:55

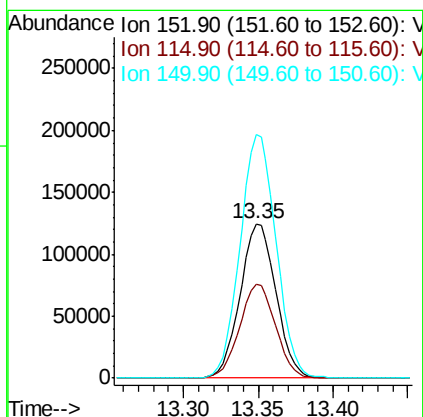
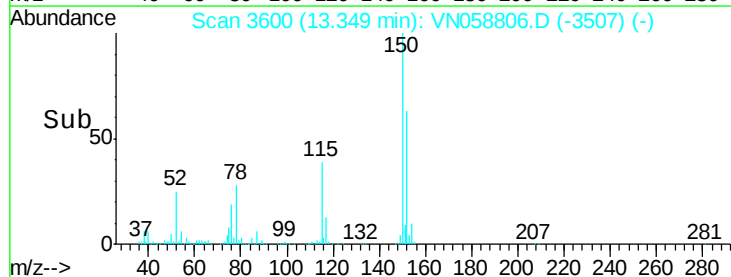
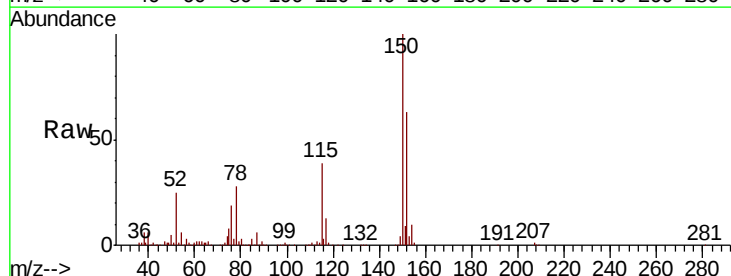
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7348

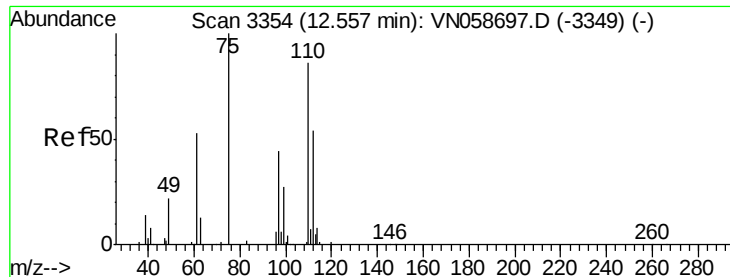
Tot Ion	Ratio	Lower	Upper
164	100		
166	117.8	99.3	148.9
129	96.0	75.2	112.8
131	84.0	73.0	109.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058806.D
Acq: 16 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.3	30.4	91.2
150	158.9	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 29.541 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampled :

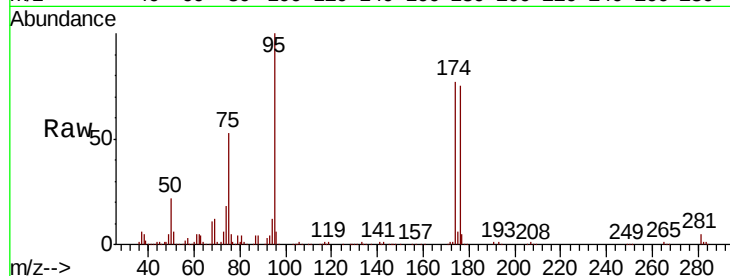
FA19-JBW7348

Tot Ion: 75 Resp: 134758

Ion Ratio Lower Upper

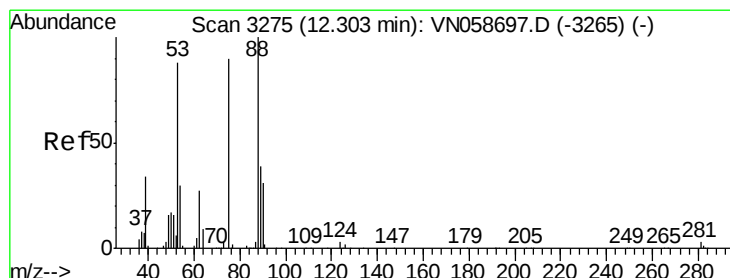
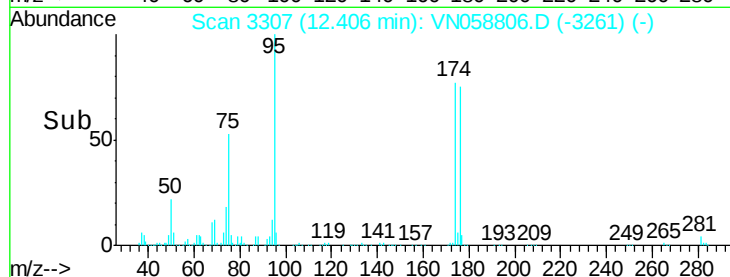
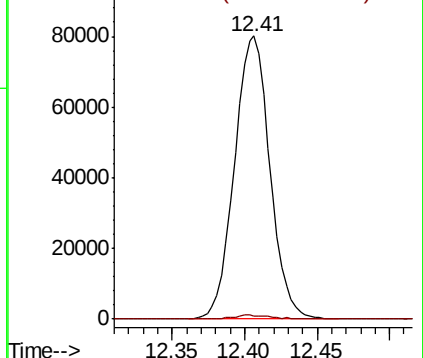
75 100

77 1.4 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: 79.130 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058806.D

Acq: 16 Oct 2019 16:55

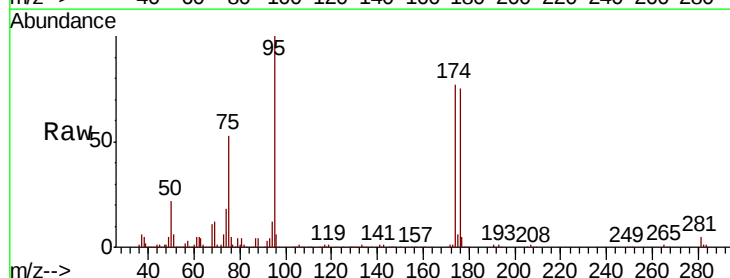
Tgt Ion: 75 Resp: 134758

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



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

