

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058830.D
 Acq On : 17 Oct 2019 16:14
 Operator : JC/SP
 Sample : K5393-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:28:53 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	357662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	572357	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	515578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	191631	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	265849	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
35) Dibromofluoromethane	7.57	113	189213	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
50) Toluene-d8	10.08	98	728072	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
62) 4-Bromofluorobenzene	12.41	95	228544	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	11081	5.346	ug/l	99
18) Methyl Acetate	4.30	43	6843	1.301	ug/l #	72
20) Methylene Chloride	4.53	84	16015	3.697	ug/l	96
25) 2-Butanone	6.83	43	1197	0.400	ug/l	97
31) Cyclohexane	7.65	56	8889	1.210	ug/l #	13
36) 1,1-Dichloropropene	7.65	75	31011	5.359	ug/l #	50
38) Carbon Tetrachloride	7.65	117	36826	6.529	ug/l #	18
43) Isopropyl Acetate	8.15	43	76451	7.668	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1295	0.291	ug/l #	45
48) Methyl methacrylate	9.17	41	5465	1.209	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	5026	0.898	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	30455	4.354	ug/l #	71
56) Ethyl methacrylate	10.54	69	1574	0.259	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4000	0.564	ug/l #	42
59) 2-Hexanone	10.76	43	61944	14.315	ug/l #	53
71) Bromoform	12.41	173	1242	0.438	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	122526	29.146	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	122526	78.072	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

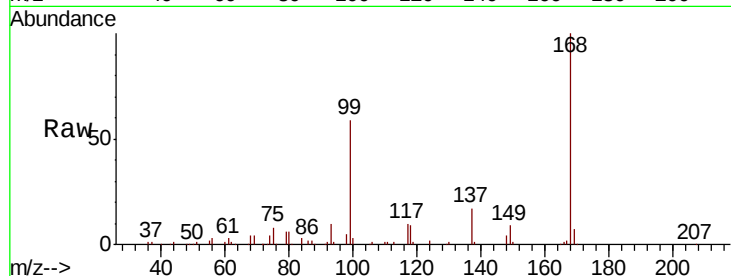
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 357662

Ion Ratio Lower Upper

168 100

99 58.7 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

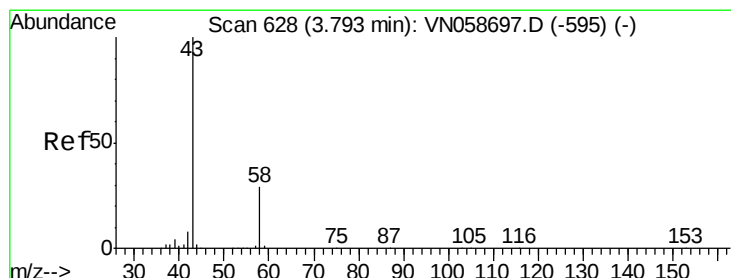
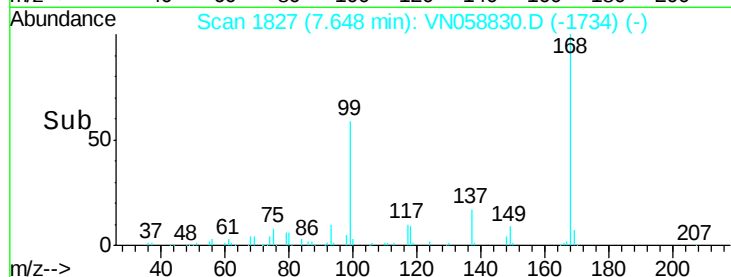
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 5.346 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058830.D

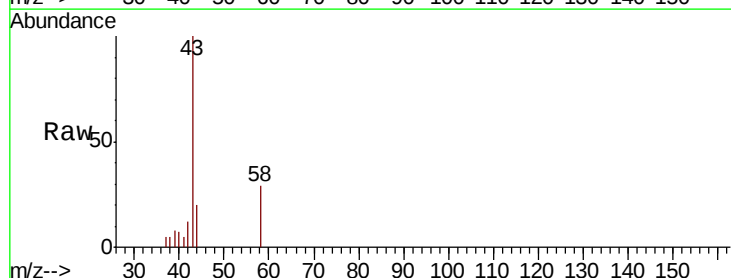
Acq: 17 Oct 2019 16:14

Tgt Ion: 43 Resp: 11081

Ion Ratio Lower Upper

43 100

58 28.7 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

5000

4000

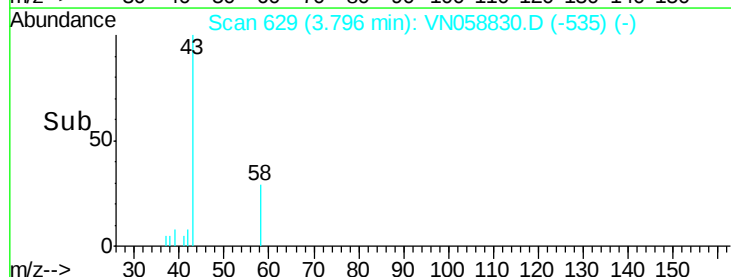
3000

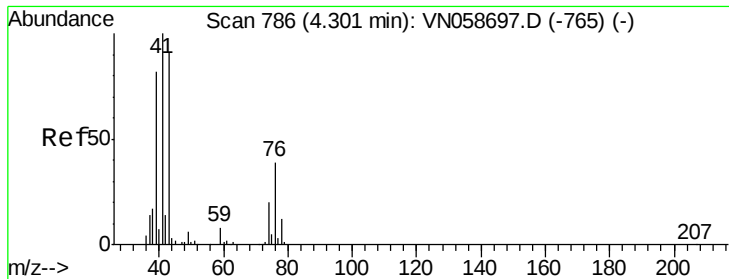
2000

1000

0

Time-->

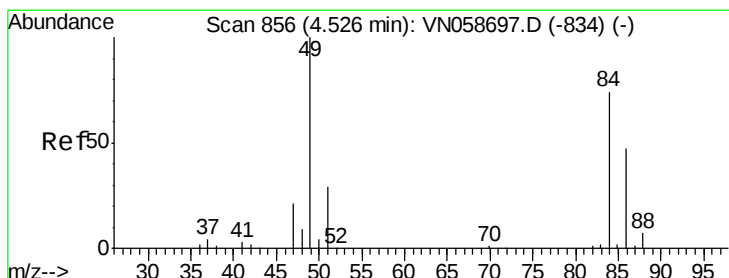
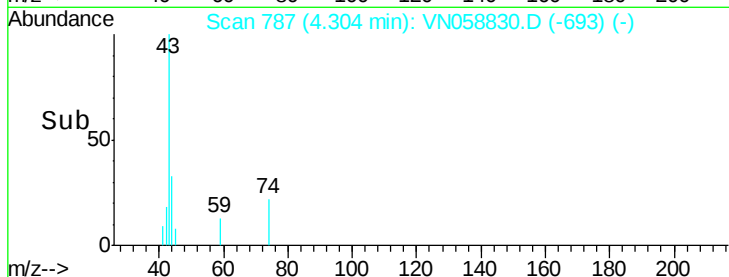
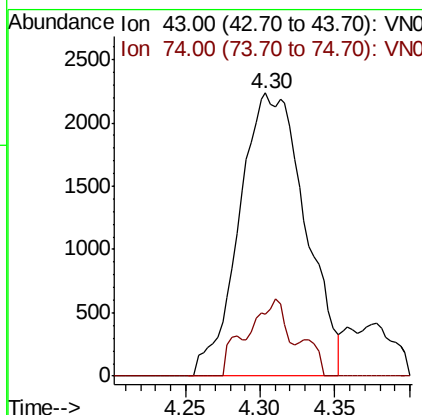
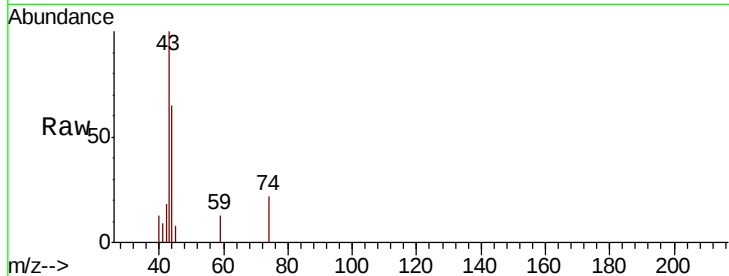




#18
Methyl Acetate
Concen: 1.301 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

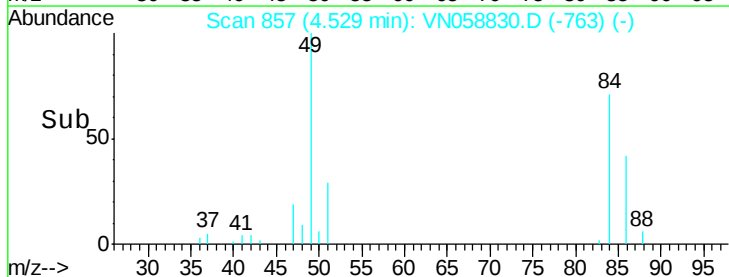
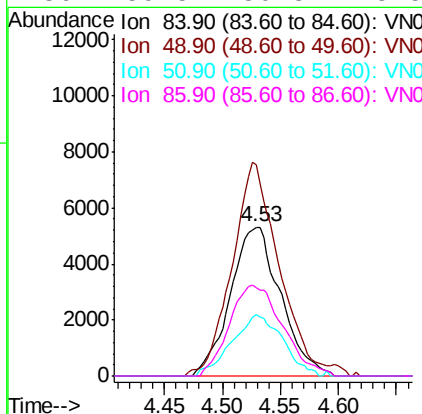
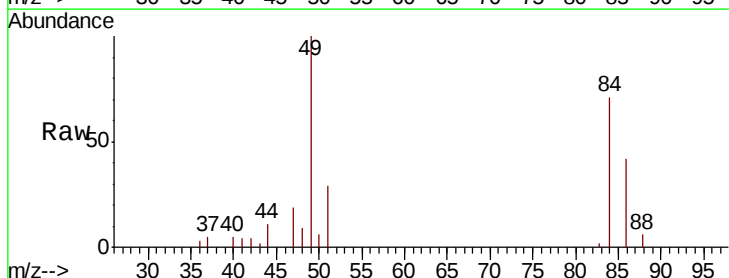
Instrument :
MSVOA_N
ClientSampleId :

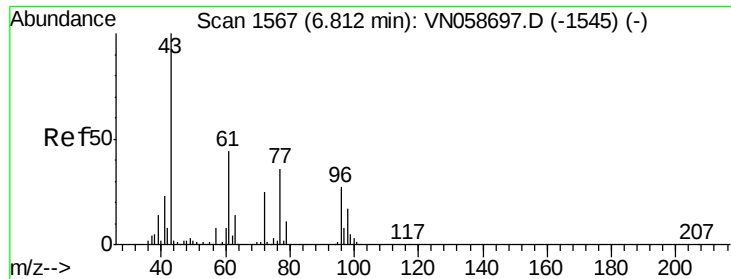
Tot Ion: 43 Resp: 6843
Ion Ratio Lower Upper
43 100
74 8.3 17.2 25.8#



#20
Methylene Chloride
Concen: 3.697 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Tgt Ion: 84 Resp: 16015
Ion Ratio Lower Upper
84 100
49 138.9 107.6 161.4
51 41.1 31.4 47.0
86 59.5 50.3 75.5

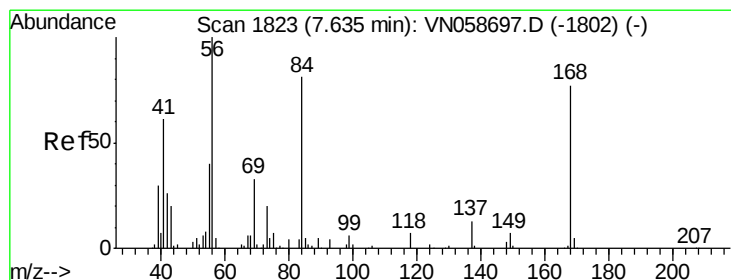
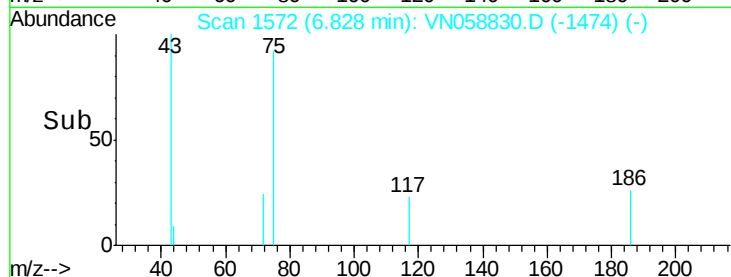
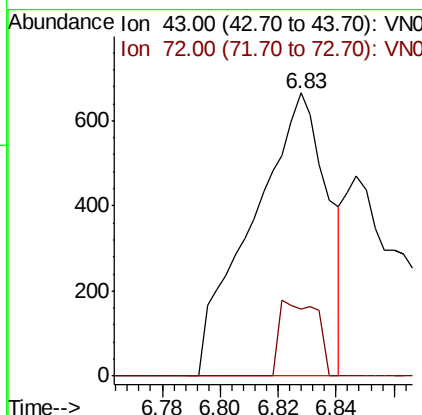
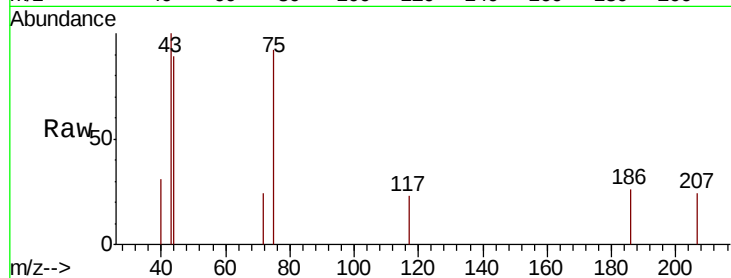




#25
2-Butanone
Concen: 0.400 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.02 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

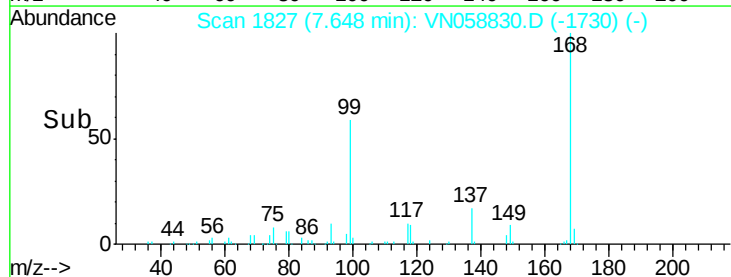
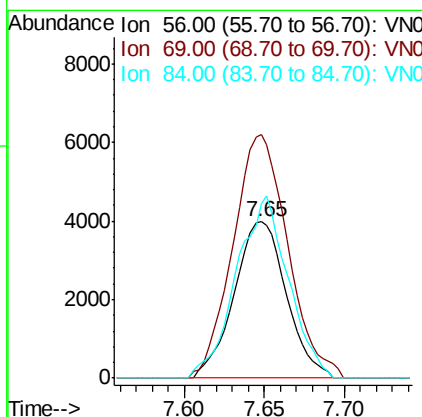
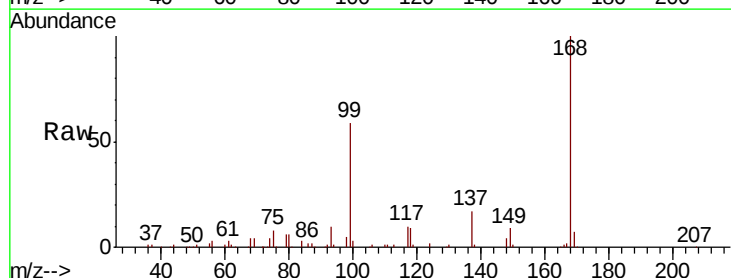
Instrument :
MSVOA_N
ClientSampleId :

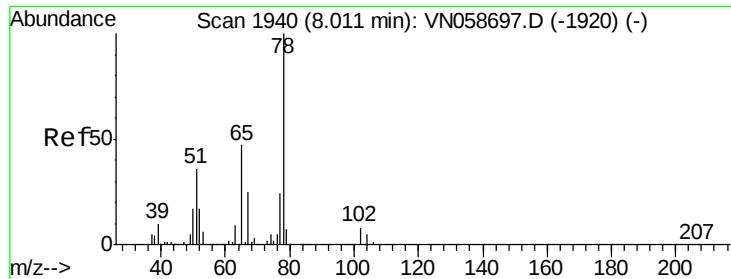
Tot Ion: 43 Resp: 1197
Ion Ratio Lower Upper
43 100
72 23.9 20.2 30.2



#31
Cyclohexane
Concen: 1.210 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Tgt Ion: 56 Resp: 8889
Ion Ratio Lower Upper
56 100
69 155.8 26.2 39.4#
84 111.6 64.9 97.3#





#33

1,2-Dichloroethane-d4

Concen: 53.093 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

Instrument :

MSVOA_N

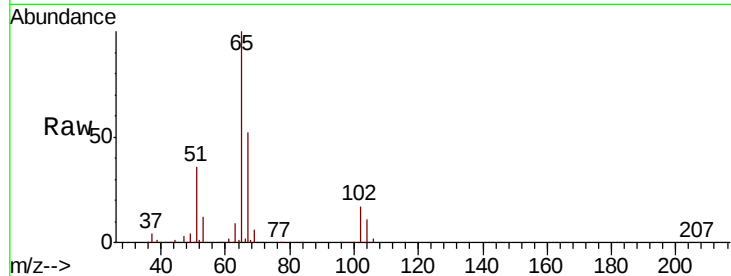
ClientSampled :

Tot Ion: 65 Resp: 265849

Ion Ratio Lower Upper

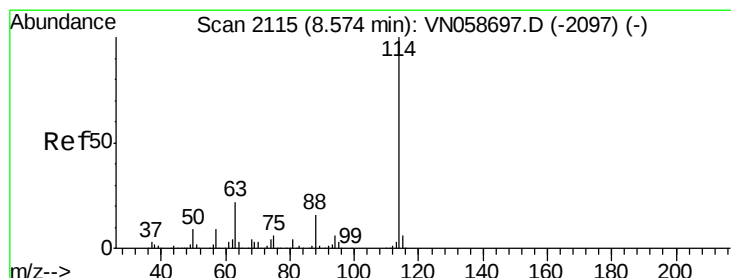
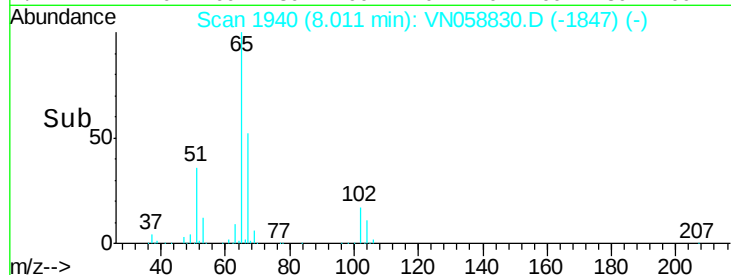
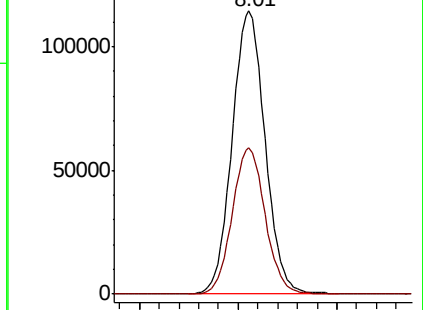
65 100

67 51.6 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN058830.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058830.D (-1847) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

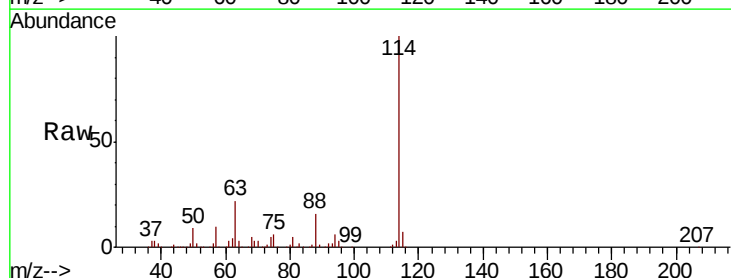
Tgt Ion: 114 Resp: 572357

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

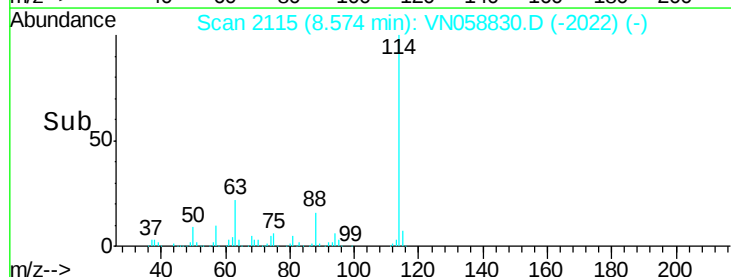
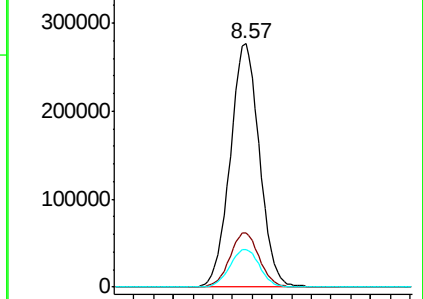
88 15.7 0.0 32.0

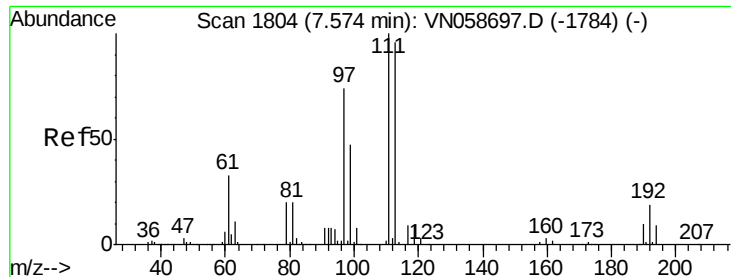


Abundance Ion 113.90 (113.60 to 114.60): VN058830.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058830.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058830.D (-2022) (-)

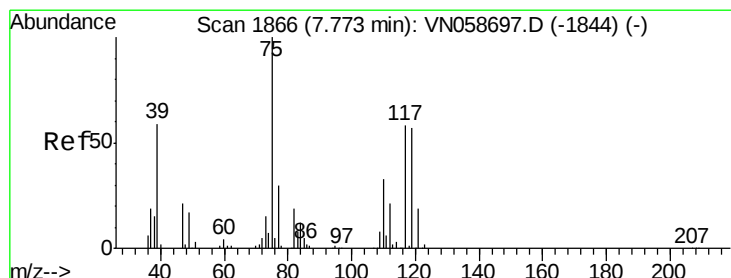
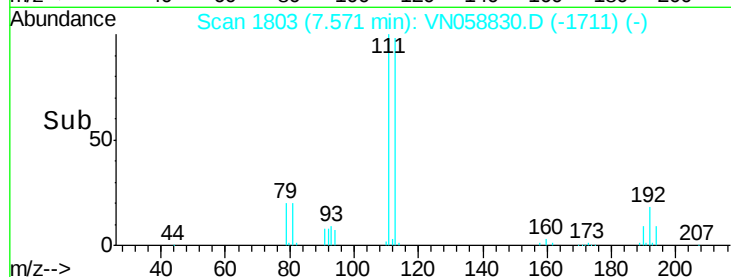
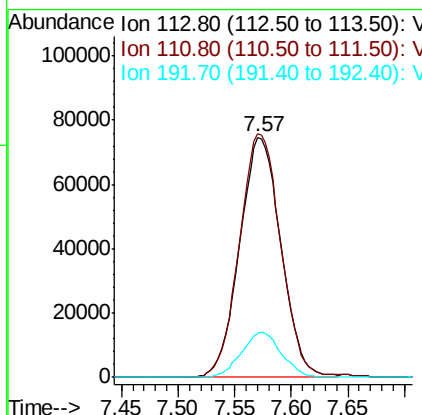
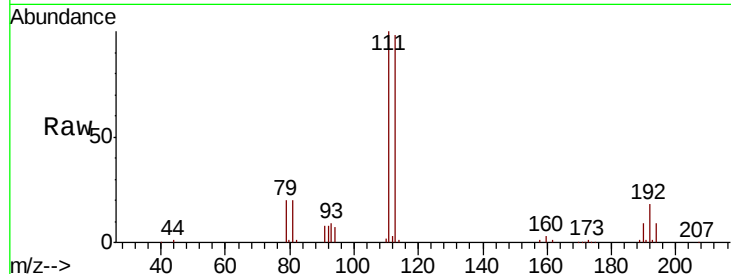




#35
Dibromofluoromethane
Concen: 53.521 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

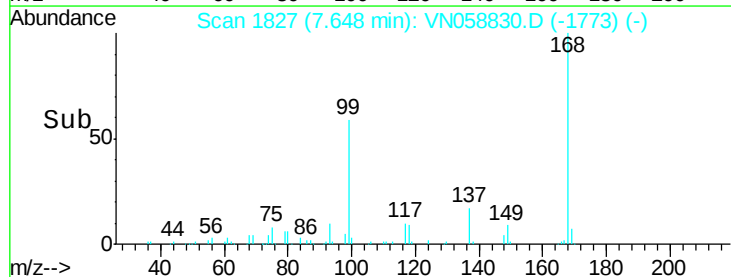
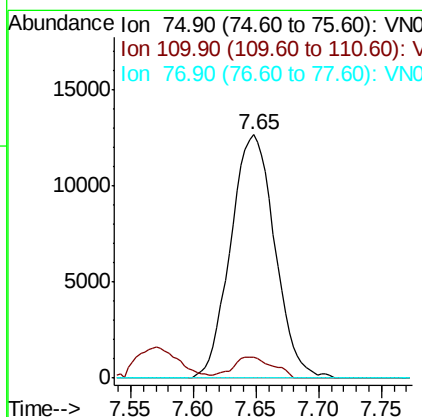
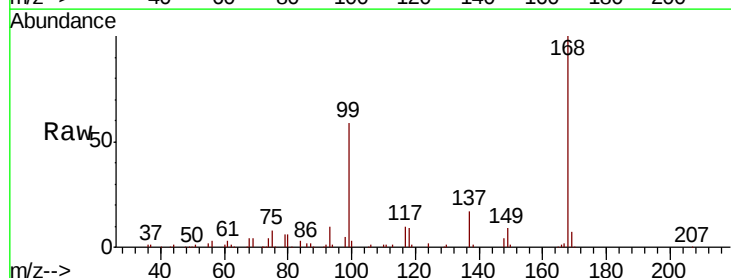
Instrument :
MSVOA_N
ClientSampleId :

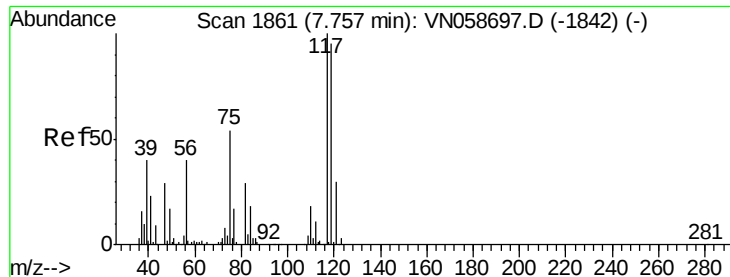
Tot Ion:113 Resp: 189213
Ion Ratio Lower Upper
113 100
111 102.6 82.3 123.5
192 18.2 15.0 22.6



#36
1,1-Dichloropropene
Concen: 5.359 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Tgt Ion: 75 Resp: 31011
Ion Ratio Lower Upper
75 100
110 7.8 16.6 49.8#
77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.529 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

Instrument :

MSVOA_N

ClientSampled :

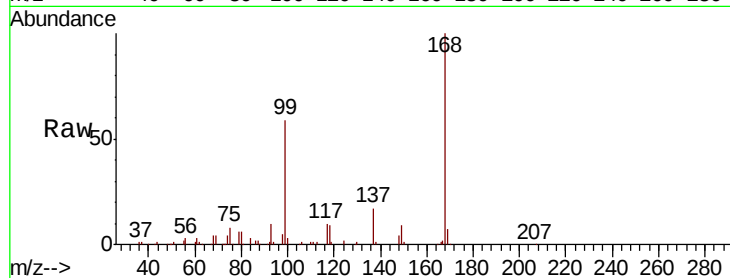
Tot Ion:117 Resp: 36826

Ion Ratio Lower Upper

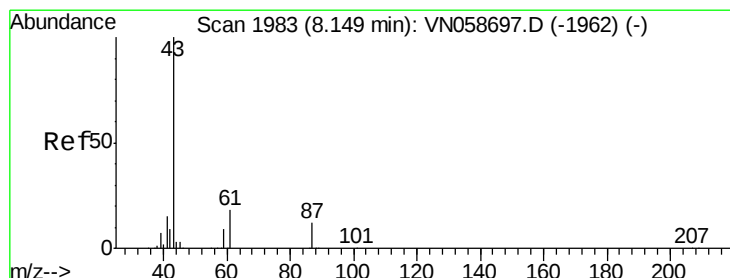
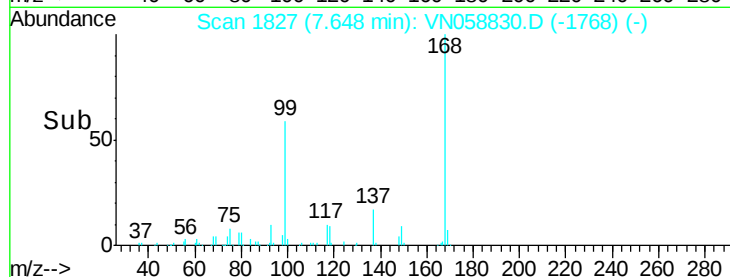
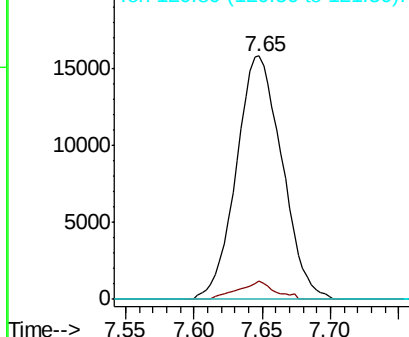
117 100

119 7.3 75.7 113.5#

121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 7.668 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

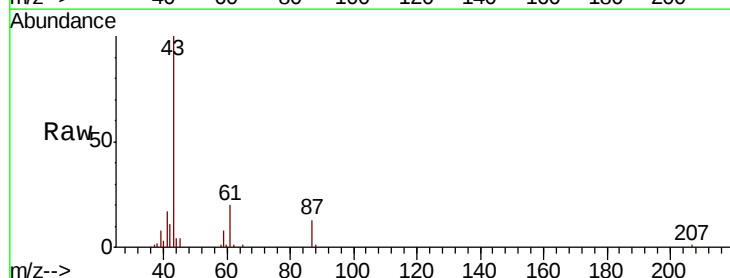
Tgt Ion: 43 Resp: 76451

Ion Ratio Lower Upper

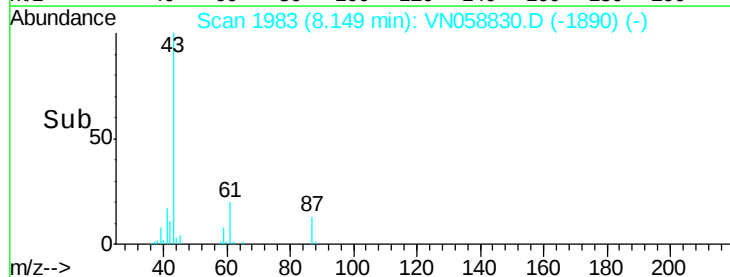
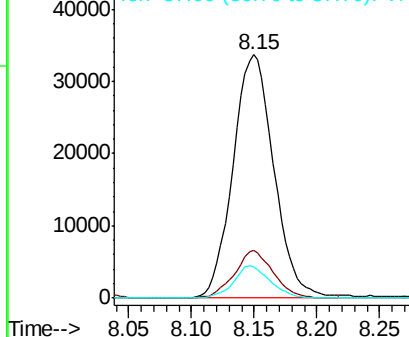
43 100

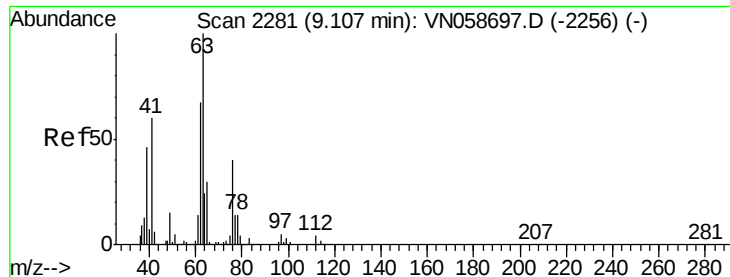
61 18.5 20.3 30.5#

87 11.7 9.8 14.6



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





#45

1,2-Dichloropropane

Concen: 0.291 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

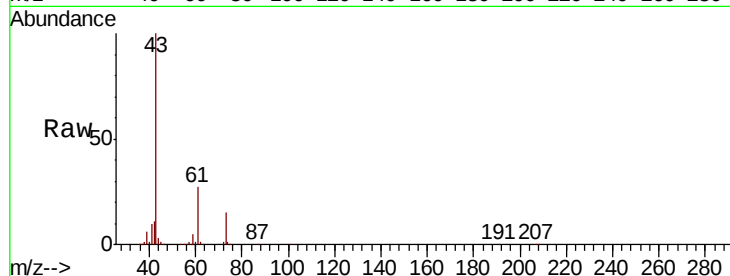
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 63 Resp: 1295

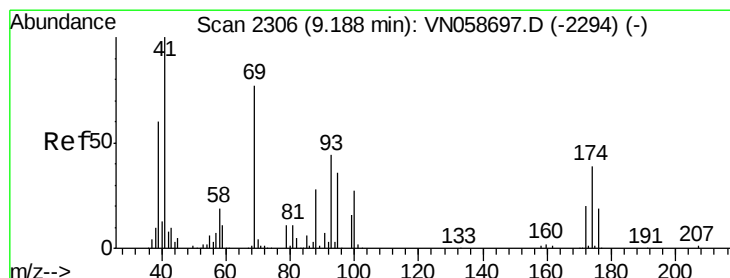
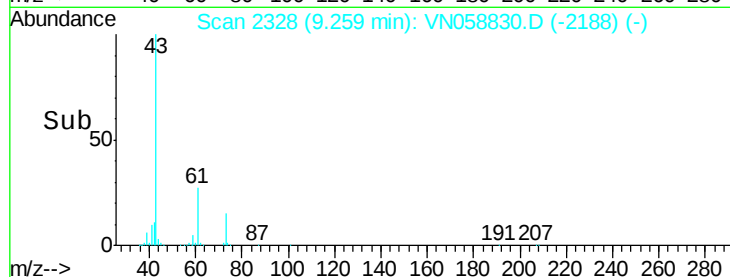
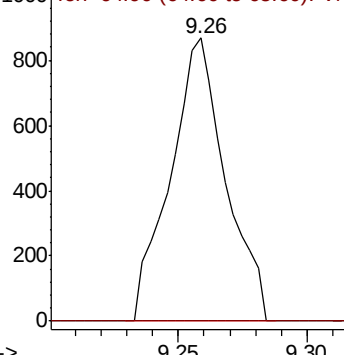
Ion Ratio Lower Upper

63 100

65 0.0 24.1 36.1#



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



#48

Methyl methacrylate

Concen: 1.209 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.01 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

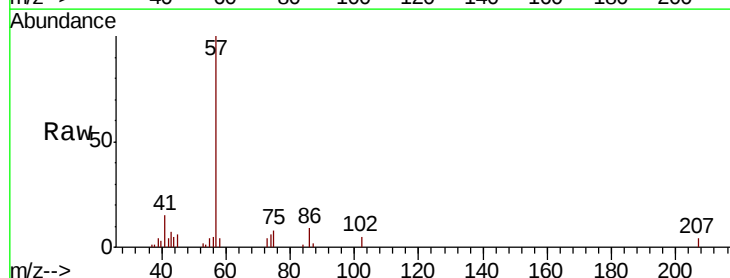
Tgt Ion: 41 Resp: 5465

Ion Ratio Lower Upper

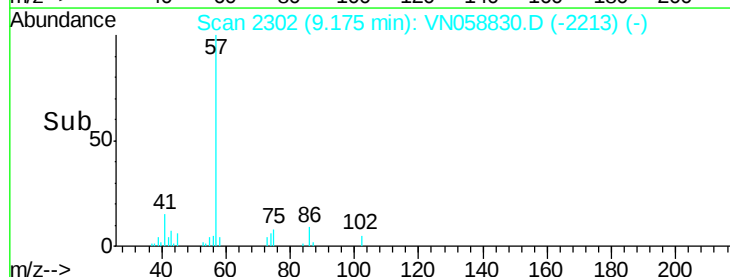
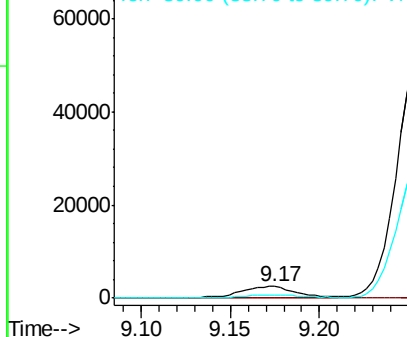
41 100

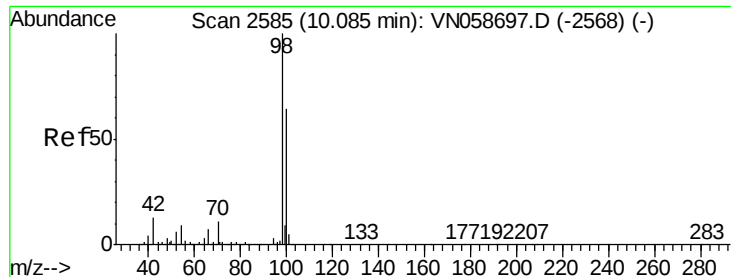
69 0.0 63.4 95.2#

39 0.0 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 51.500 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

Instrument :

MSVOA_N

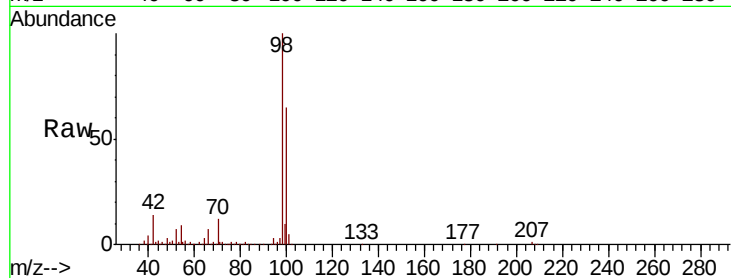
ClientSampled :

Tot Ion: 98 Resp: 728072

Ion Ratio Lower Upper

98 100

100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058697.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058697.D (-2568) (-)

10.08

400000

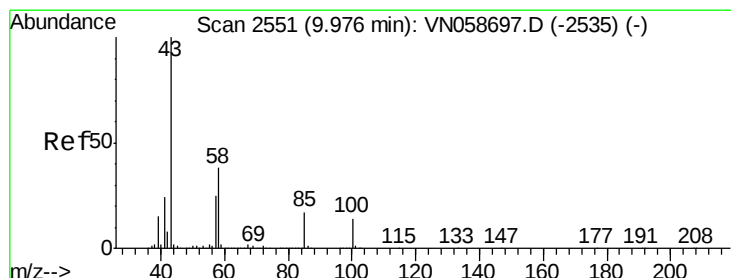
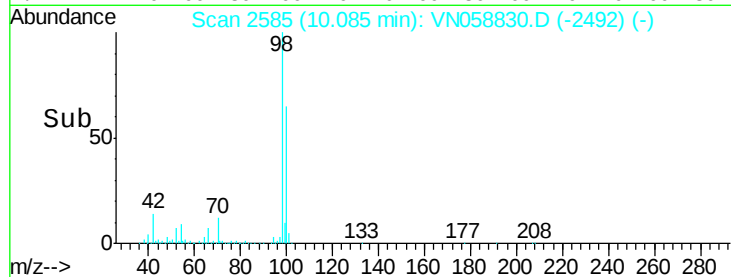
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.898 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058830.D

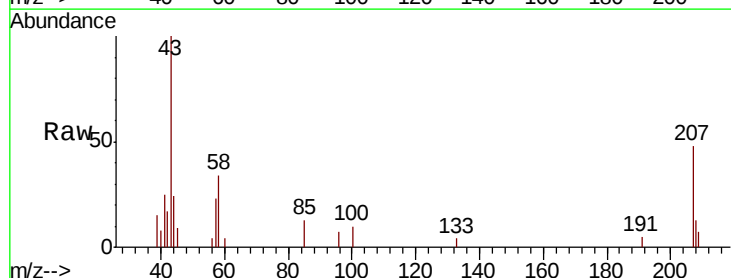
Acq: 17 Oct 2019 16:14

Tgt Ion: 43 Resp: 5026

Ion Ratio Lower Upper

43 100

58 42.6 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-2535) (-)

9.98

10000

8000

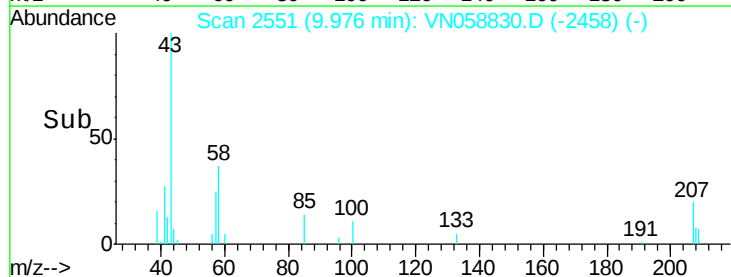
6000

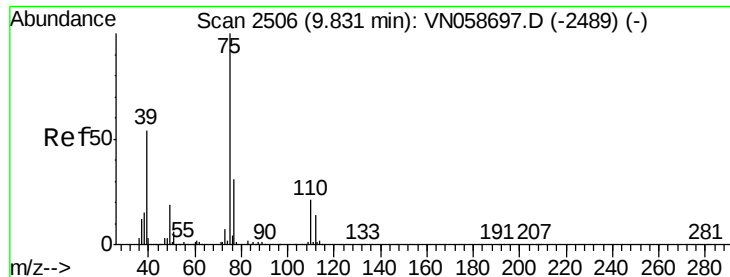
4000

2000

0

Time-->



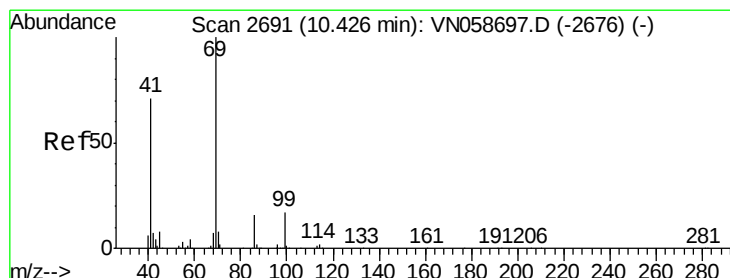
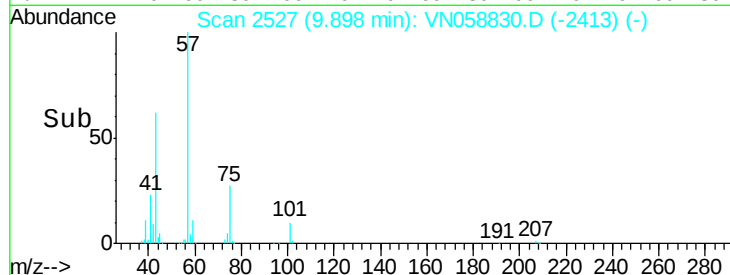
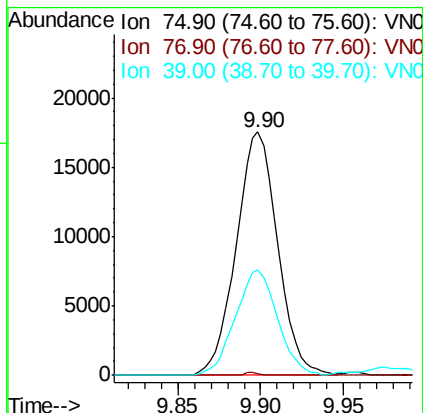
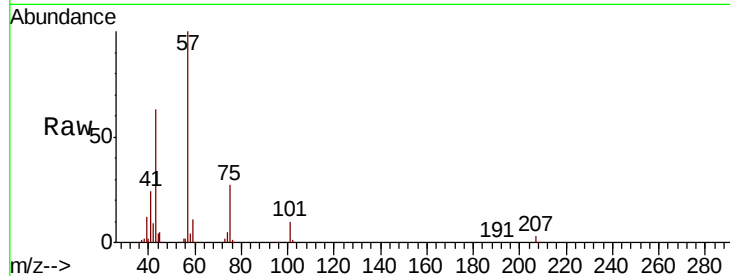


#54

cis-1,3-Dichloropropene
Concen: 4.354 ug/l
RT: 9.90 min Scan# 2527
Delta R.T. 0.07 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Instrument :
MSVOA_N
ClientSampleId :

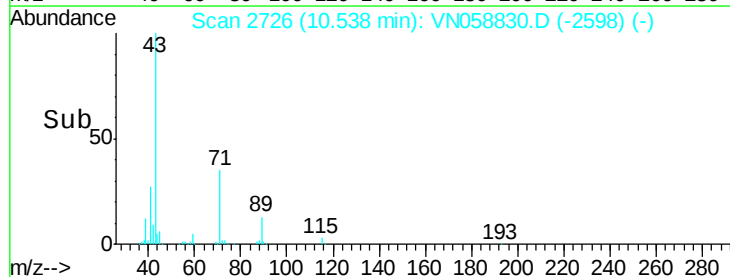
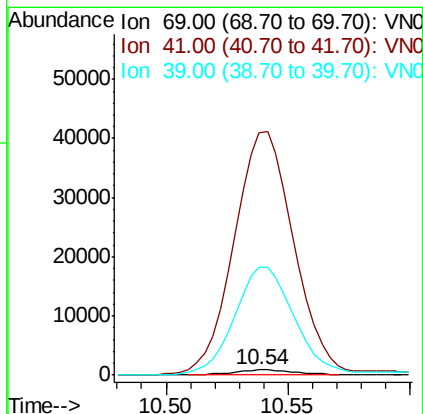
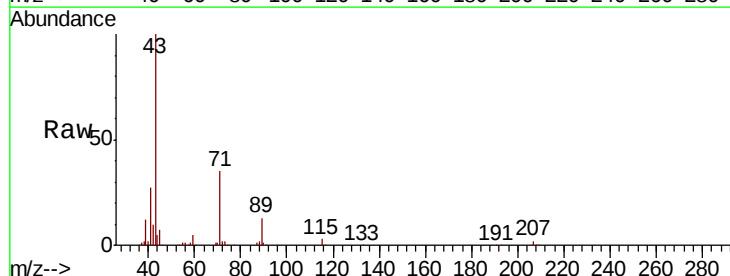
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.9	24.4	36.6#
39	43.0	43.1	64.7#

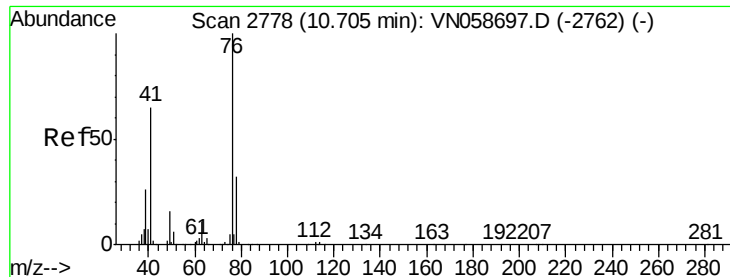


#56

Ethyl methacrylate
Concen: 0.259 ug/l
RT: 10.54 min Scan# 2726
Delta R.T. 0.11 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4520.1	56.8	85.2#
39	1984.1	32.5	48.7#





#57

1,3-Dichloropropane

Concen: 0.564 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

Instrument :

MSVOA_N

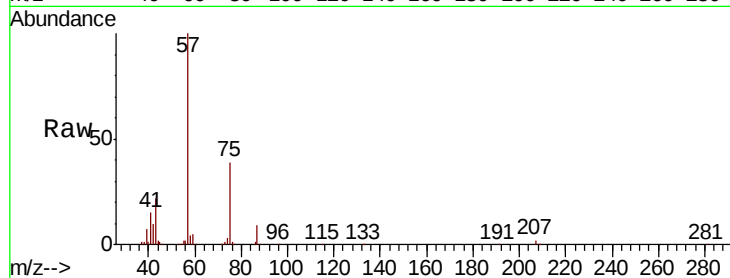
ClientSampled :

Tot Ion: 76 Resp: 4000

Ion Ratio Lower Upper

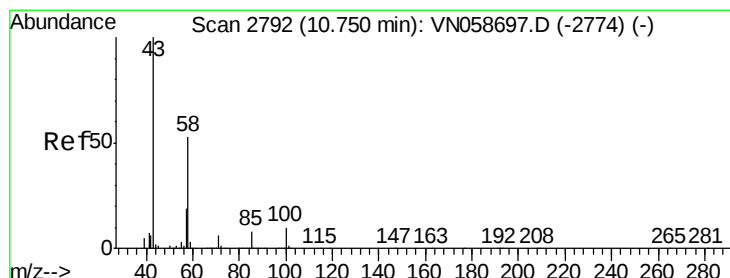
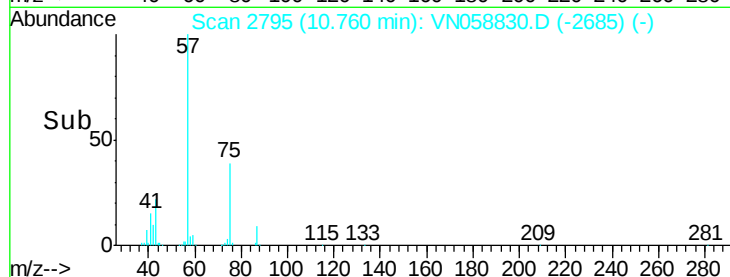
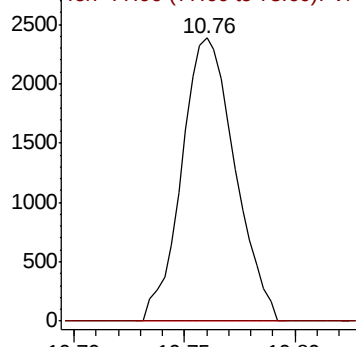
76 100

78 0.0 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 14.315 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN058830.D

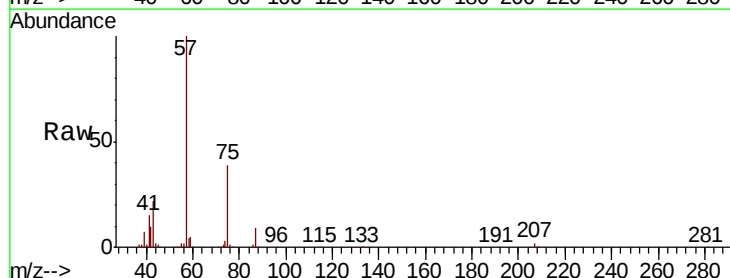
Acq: 17 Oct 2019 16:14

Tgt Ion: 43 Resp: 61944

Ion Ratio Lower Upper

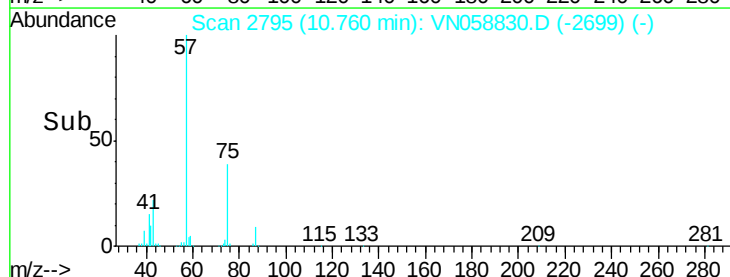
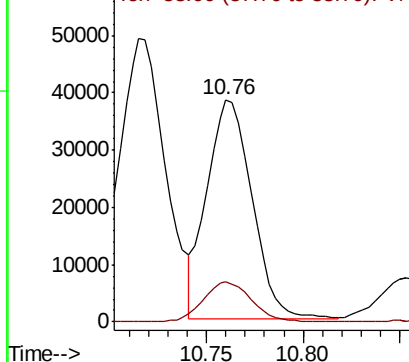
43 100

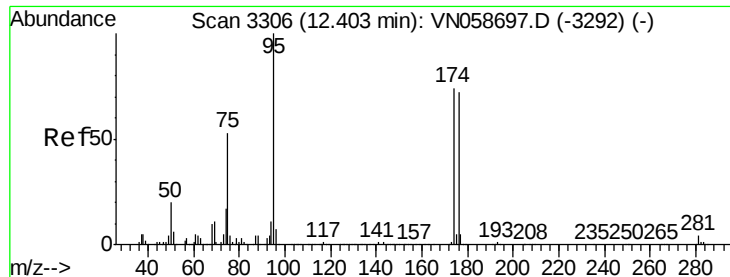
58 19.4 26.1 78.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 42.708 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

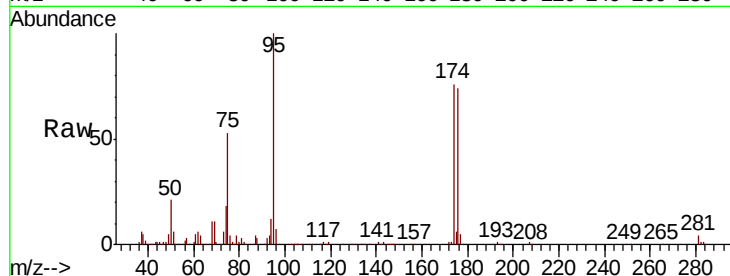
Tot Ion: 95 Resp: 228544

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.4

176 72.9 0.0 146.8

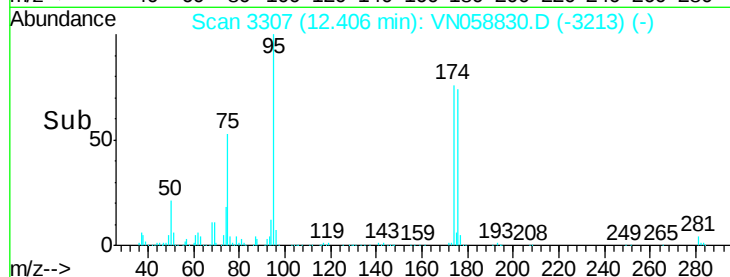


Abundance Ion 94.90 (94.60 to 95.60): VN058697.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058697.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058697.D (-3292) (-)

Time-->

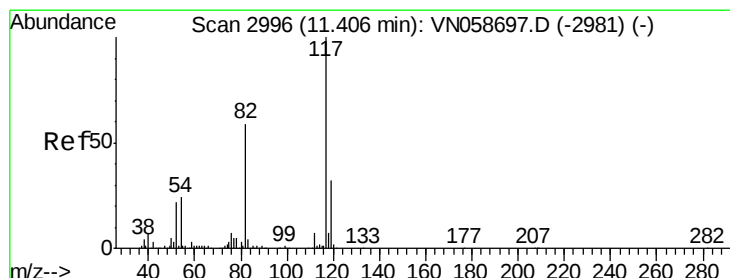


Abundance Ion 94.90 (94.60 to 95.60): VN058830.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058830.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058830.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

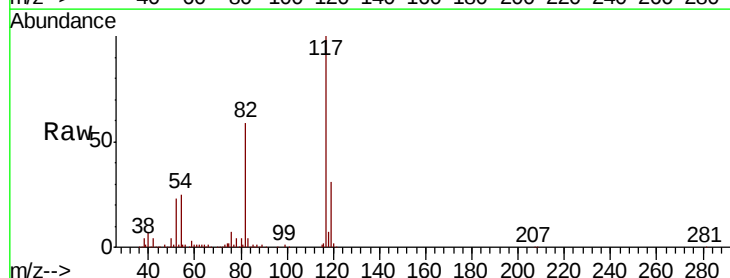
Tgt Ion: 117 Resp: 515578

Ion Ratio Lower Upper

117 100

82 59.3 47.0 70.4

119 31.3 25.4 38.2

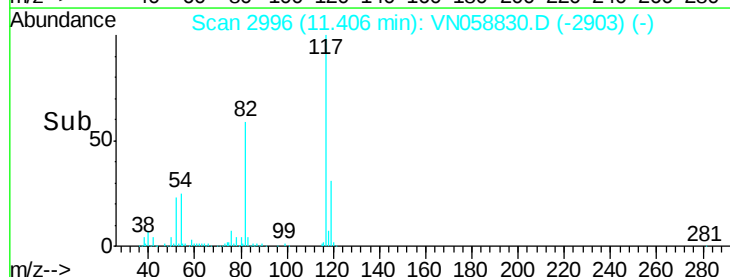


Abundance Ion 116.90 (116.60 to 117.60): VN058697.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058697.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058697.D (-2981) (-)

Time-->

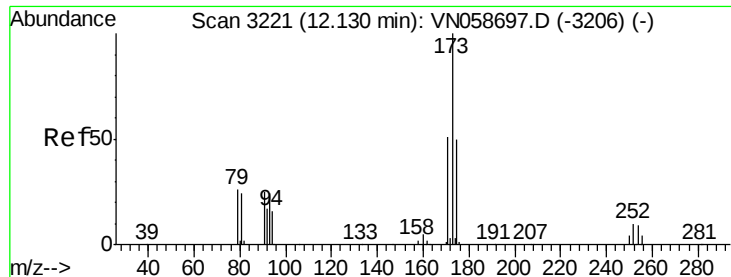


Abundance Ion 116.90 (116.60 to 117.60): VN058830.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058830.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058830.D (-2903) (-)

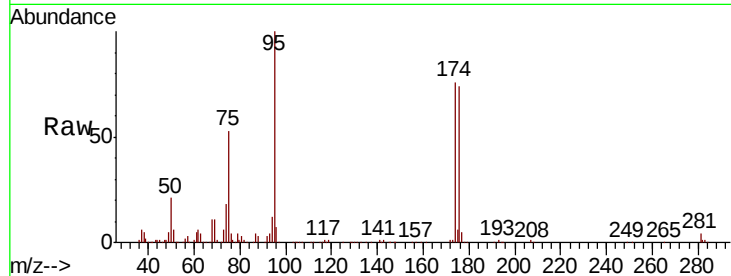
Time-->



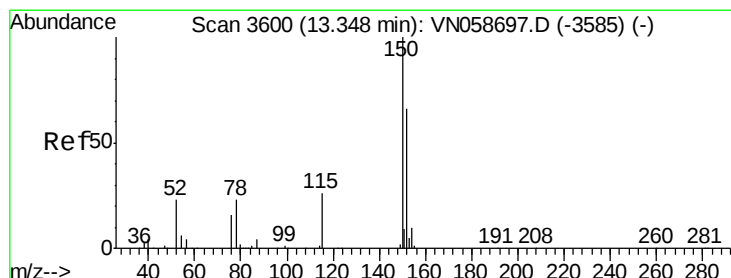
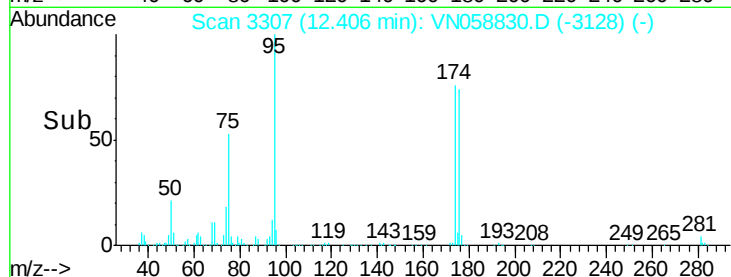
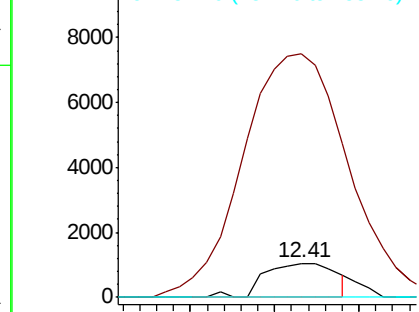
#71
Bromoform
Concen: 0.438 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 1242
Ion Ratio Lower Upper
173 100
175 908.3 24.6 73.8#
254 0.0 0.1 0.1#

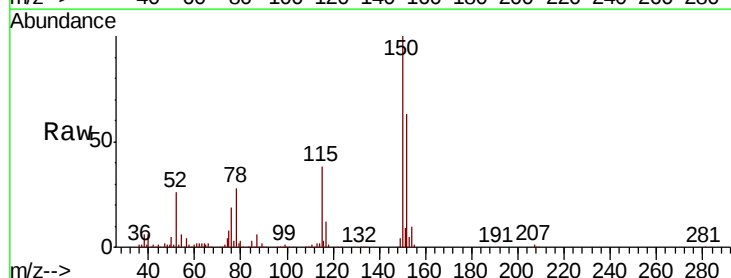


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

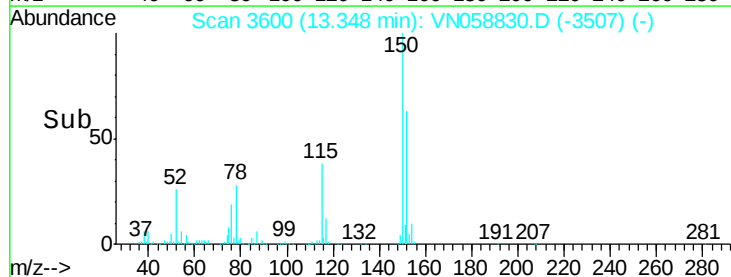
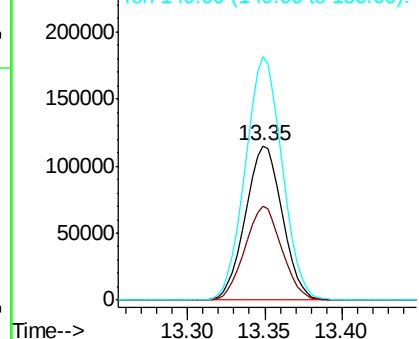


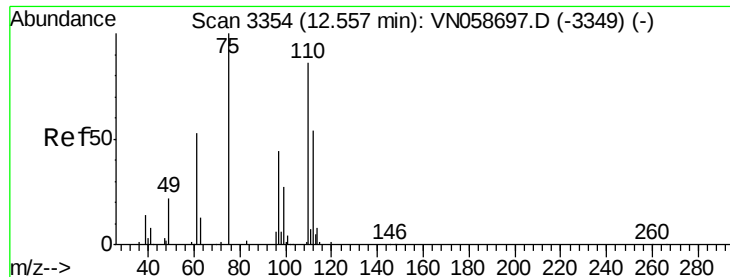
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058830.D
Acq: 17 Oct 2019 16:14

Tgt Ion:152 Resp: 191631
Ion Ratio Lower Upper
152 100
115 60.6 30.4 91.2
150 157.4 0.0 345.4



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: 29.146 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

Instrument :

MSVOA_N

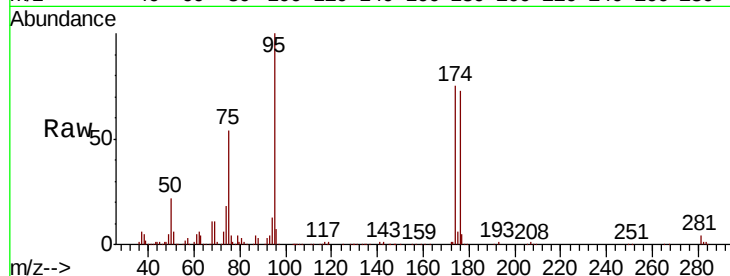
ClientSampled :

Tot Ion: 75 Resp: 122526

Ion Ratio Lower Upper

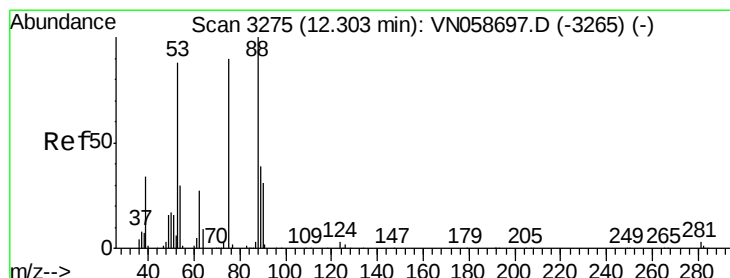
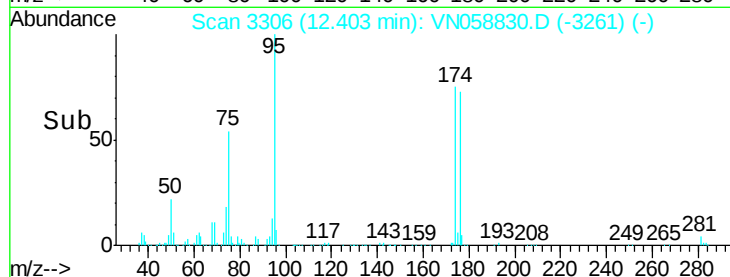
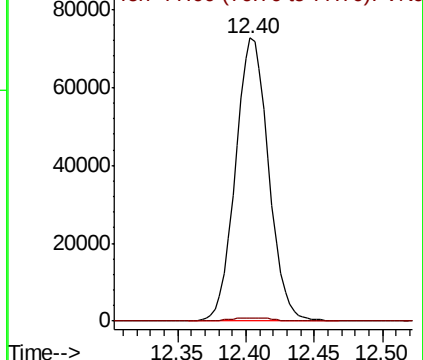
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 78.072 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058830.D

Acq: 17 Oct 2019 16:14

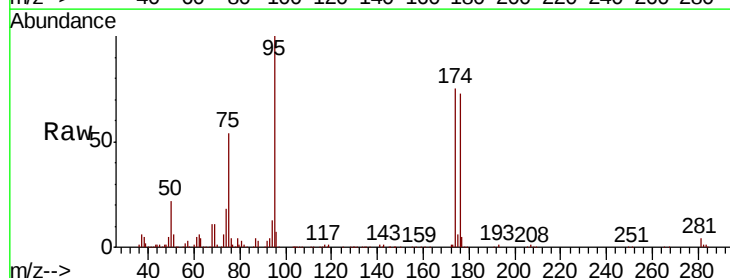
Tgt Ion: 75 Resp: 122526

Ion Ratio Lower Upper

75 100

53 0.1 78.4 117.6#

89 0.0 34.9 52.3#



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

