

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042220\
 Data File : VN061145.D
 Acq On : 22 Apr 2020 22:10
 Operator : JC/MD
 Sample : L2359-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 23 07:40:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 22 15:26:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	193644	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	323783	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	314646	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.16	152	153035	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.77	65	122891	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	
35) Dibromofluoromethane	7.31	113	90827	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	9.88	98	402079	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.21	95	155140	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	

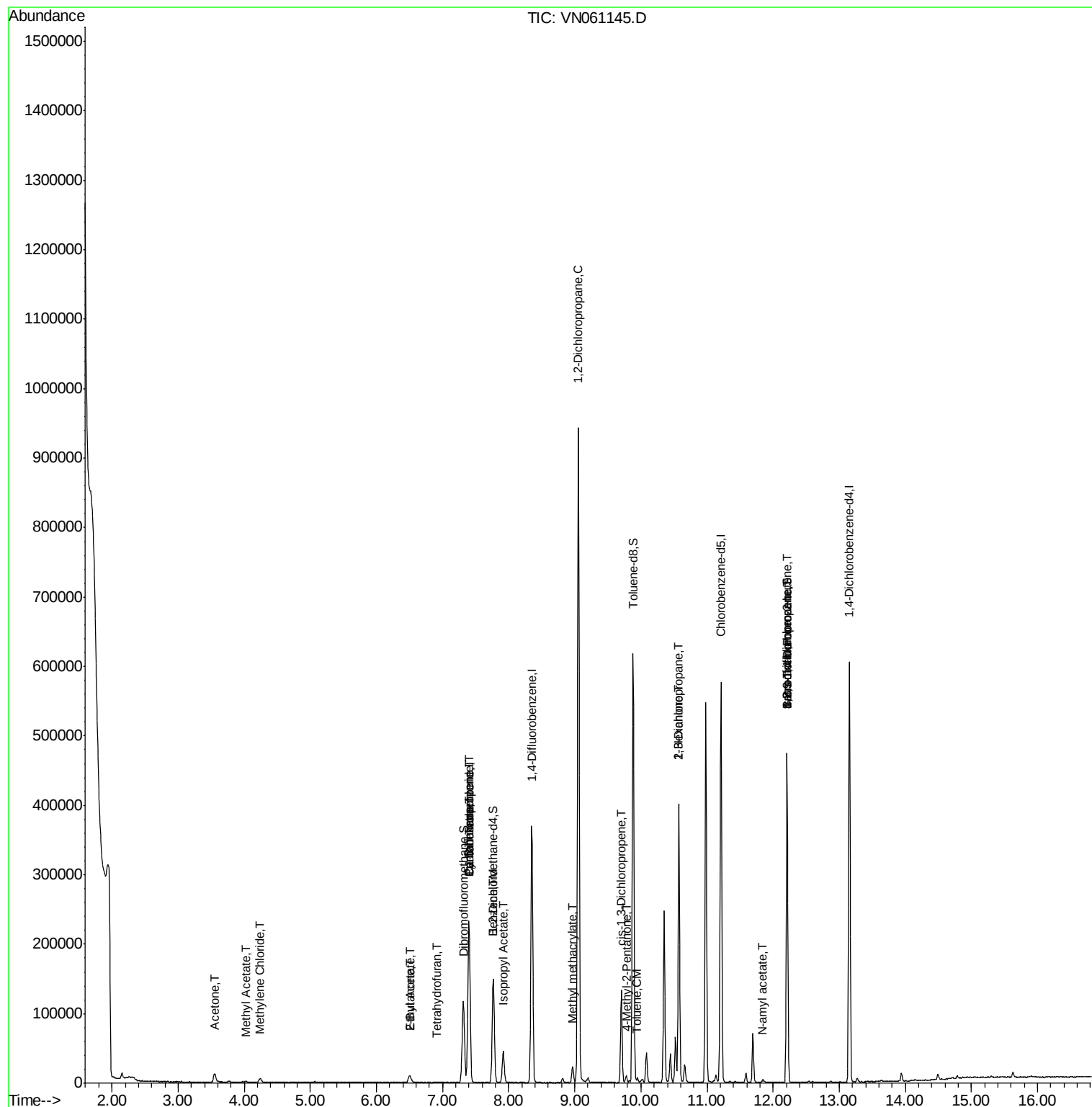
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	3.98	41	146	Below Cal	#	20
16) Acetone	3.55	43	20094	9.577	ug/l	98
18) Methyl Acetate	4.02	43	2774	0.466	ug/l #	73
20) Methylene Chloride	4.24	84	3917	1.746	ug/l	94
25) 2-Butanone	6.51	43	3901	2.788	ug/l	91
29) Tetrahydrofuran	6.91	42	485	0.503	ug/l #	33
31) Cyclohexane	7.40	56	4135	1.049	ug/l #	1
36) 1,1-Dichloropropene	7.40	75	15023	4.747	ug/l #	48
37) Ethyl Acetate	6.51	43	3901	1.230	ug/l #	72
38) Carbon Tetrachloride	7.40	117	18874	6.813	ug/l #	15
40) Benzene	7.78	78	7429	0.793	ug/l	98
43) Isopropyl Acetate	7.92	43	54431	10.105	ug/l	99
45) 1,2-Dichloropropane	9.05	63	1061	0.428	ug/l #	44
48) Methyl methacrylate	8.95	41	2960	1.167	ug/l #	14
49) 1,4-Dioxane	8.98	88	759	Below Cal	#	5
51) 4-Methyl-2-Pentanone	9.78	43	6724	2.139	ug/l	91
52) Toluene	9.95	92	2599	0.443	ug/l	97
54) cis-1,3-Dichloropropene	9.71	75	22974	5.763	ug/l #	60
57) 1,3-Dichloropropane	10.57	76	3955	1.031	ug/l #	42
59) 2-Hexanone	10.57	43	57012	24.547	ug/l #	51
71) Bromoform	12.21	173	579	0.339	ug/l #	1
74) N-amyl acetate	11.84	43	2418	0.465	ug/l #	44
76) 1,2,3-Trichloropropane	12.21	75	80182	22.714	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.21	75	80182	59.653	ug/l #	12

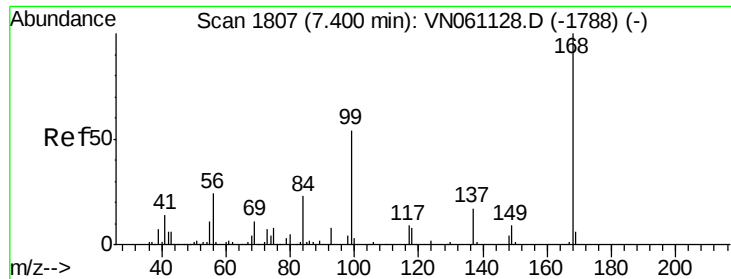
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 22 15:26:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

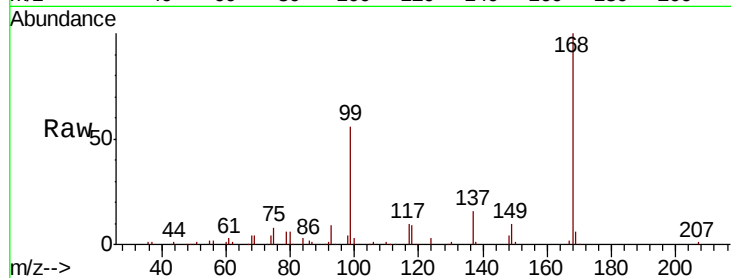
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:168 Resp: 193644

Ion Ratio Lower Upper

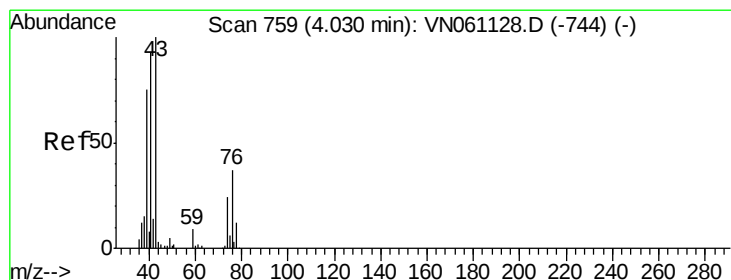
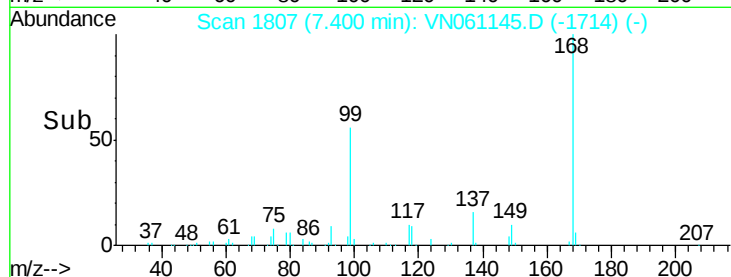
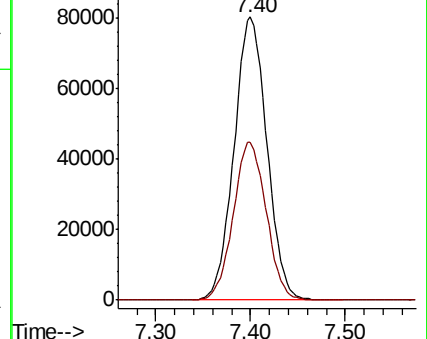
168 100

99 55.7 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#14

Allyl chloride

Concen: Below Cal

RT: 3.98 min Scan# 742

Delta R.T. -0.05 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

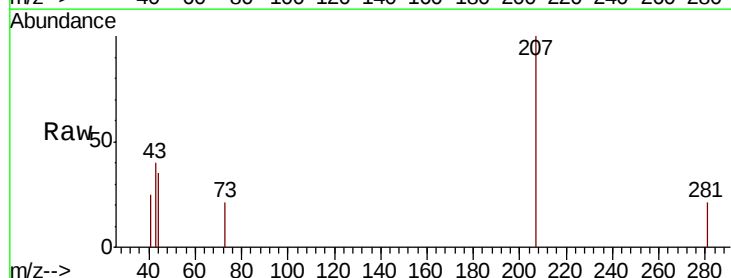
Tgt Ion: 41 Resp: 146

Ion Ratio Lower Upper

41 100

39 0.0 61.0 91.4#

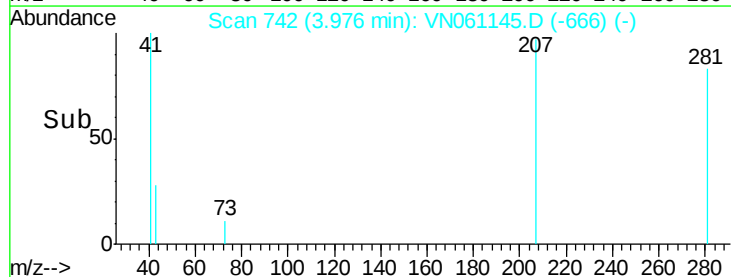
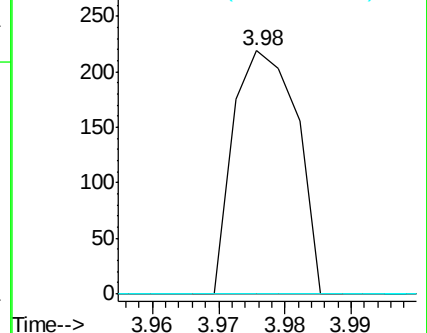
76 0.0 28.9 43.3#

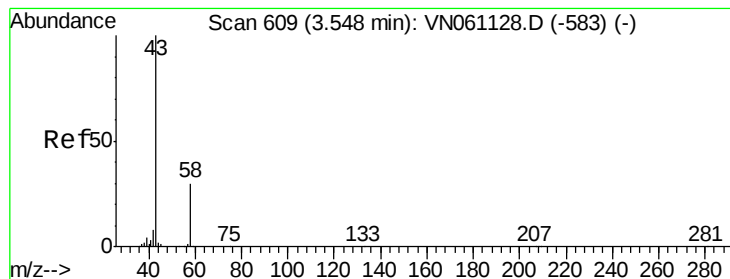


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: 9.577 ug/l

RT: 3.55 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

Instrument :

MSVOA_V

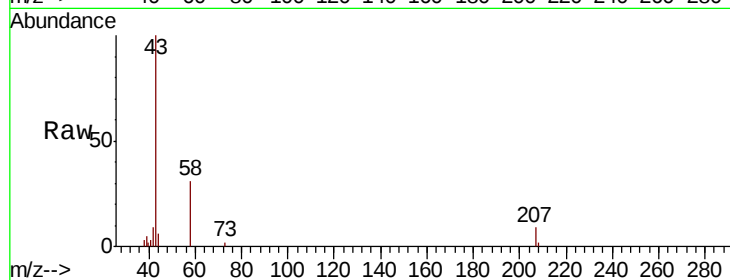
ClientSampleId :

Tot Ion: 43 Resp: 20094

Ion Ratio Lower Upper

43 100

58 30.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN061128.D (-583) (-)

Ion 58.00 (57.70 to 58.70): VN061128.D (-583) (-)

3.55

8000

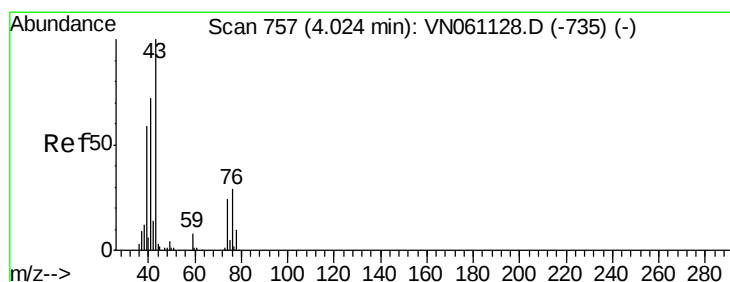
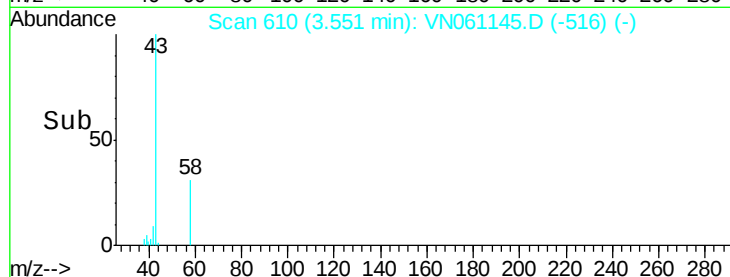
6000

4000

2000

0

Time--> 3.45 3.50 3.55 3.60



#18

Methyl Acetate

Concen: 0.466 ug/l

RT: 4.02 min Scan# 756

Delta R.T. -0.00 min

Lab File: VN061145.D

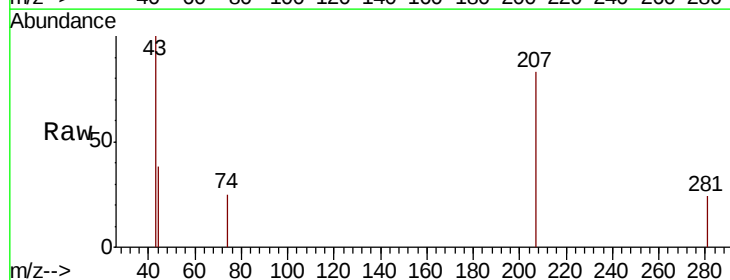
Acq: 22 Apr 2020 22:10

Tgt Ion: 43 Resp: 2774

Ion Ratio Lower Upper

43 100

74 11.0 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061128.D (-735) (-)

Ion 74.00 (73.70 to 74.70): VN061128.D (-735) (-)

4.02

1000

800

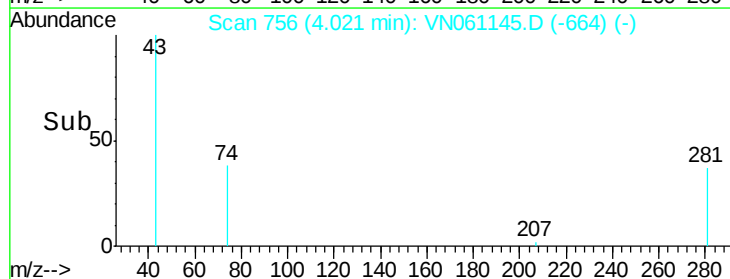
600

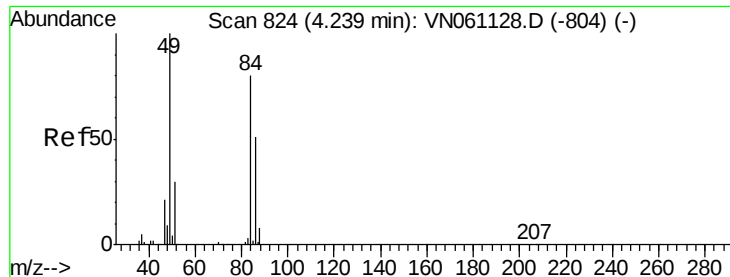
400

200

0

Time--> 3.95 4.00 4.05 4.10

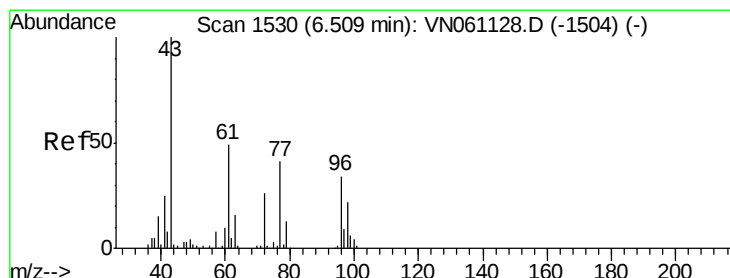
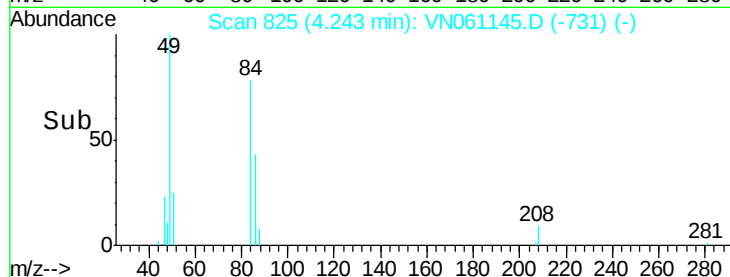
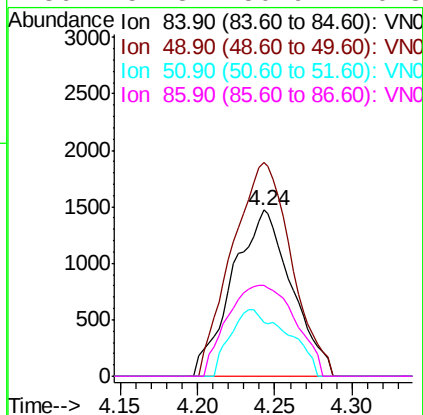
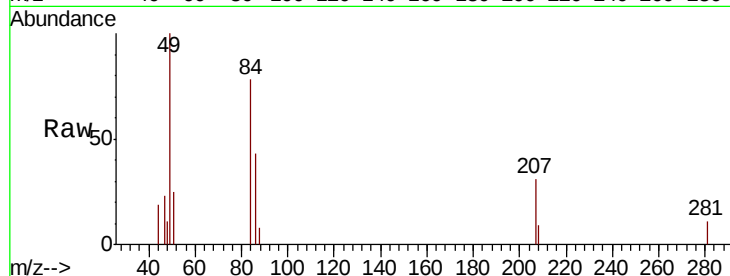




#20
Methvlene Chloride
Concen: 1.746 ug/l
RT: 4.24 min Scan# 825
Delta R.T. 0.00 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

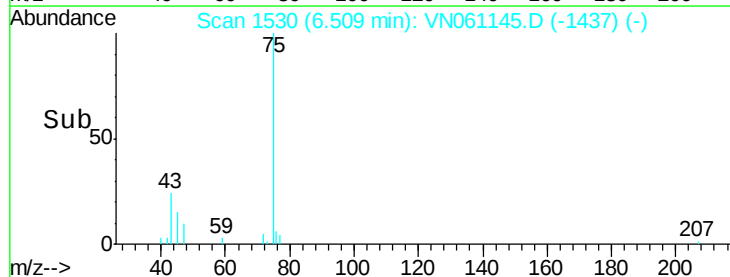
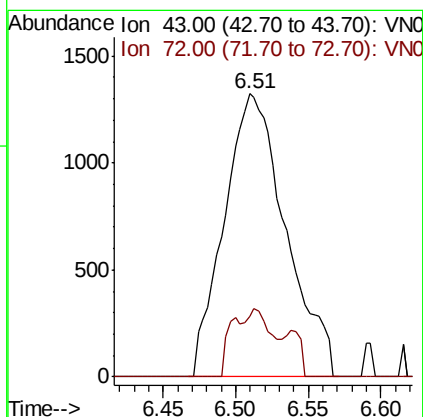
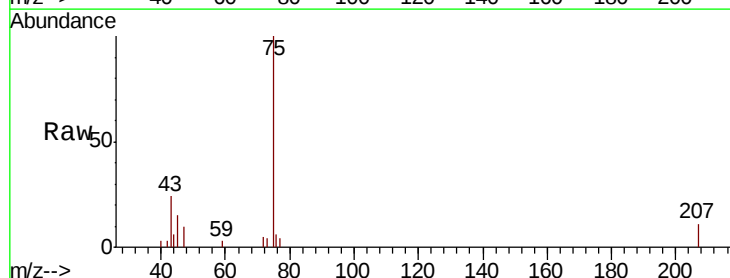
Instrument :
MSVOA_V
ClientSampleId :

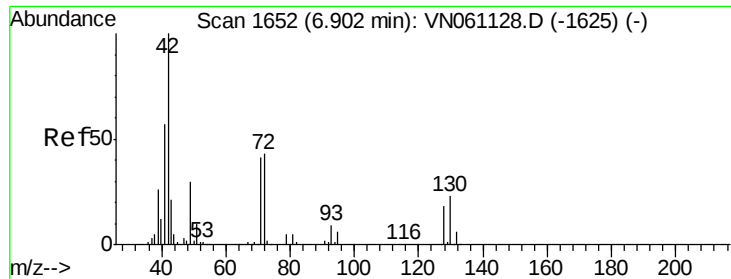
Tot Ion:	84	Resp:	3917
Ion	Ratio	Lower	Upper
84	100		
49	128.6	99.8	149.6
51	32.6	29.9	44.9
86	54.8	50.9	76.3



#25
2-Butanone
Concen: 2.788 ug/l
RT: 6.51 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Tgt Ion:	43	Resp:	3901
Ion	Ratio	Lower	Upper
43	100		
72	21.5	20.8	31.2

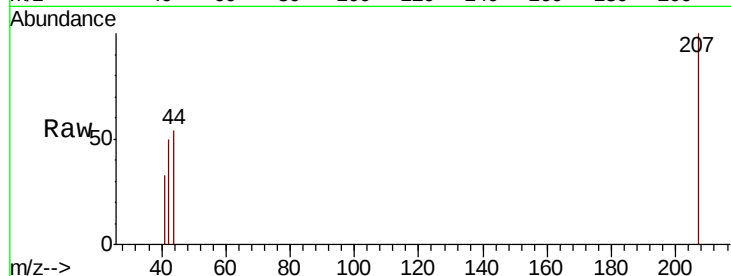




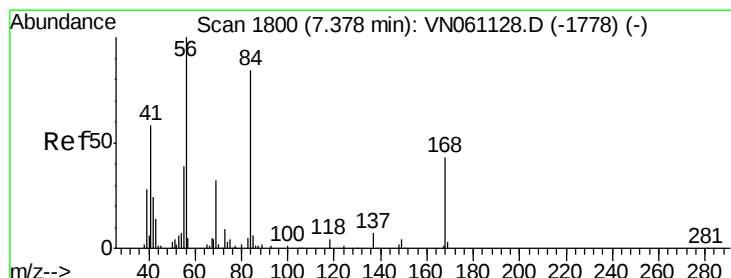
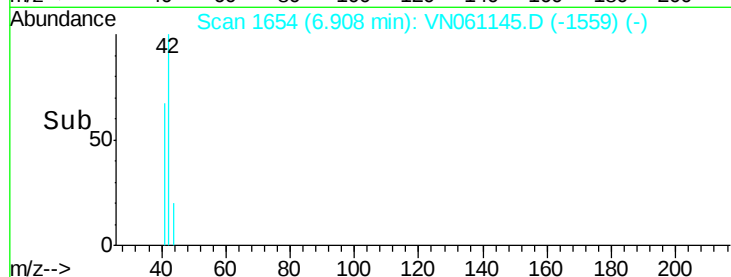
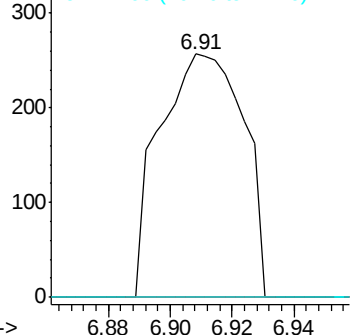
#29
Tetrahydrofuran
Concen: 0.503 ug/l
RT: 6.91 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 42 Resp: 485
Ion Ratio Lower Upper
42 100
72 0.0 35.1 52.7#
71 0.0 33.0 49.6#

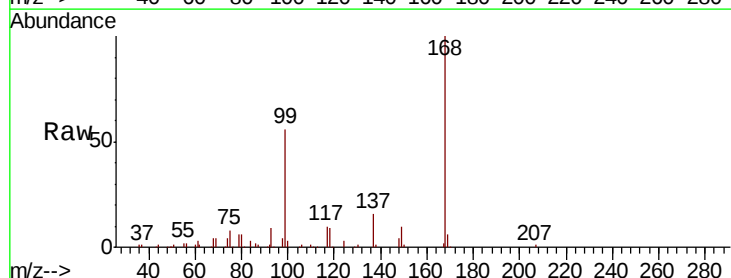


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

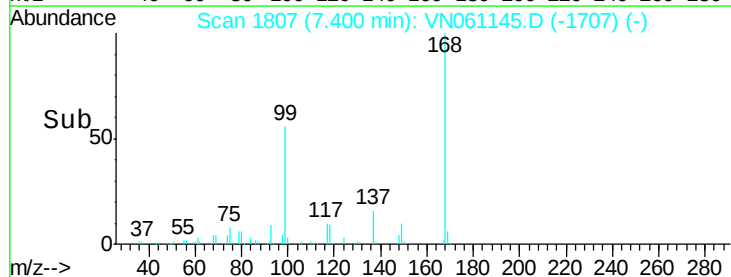
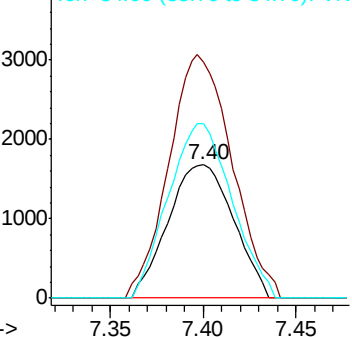


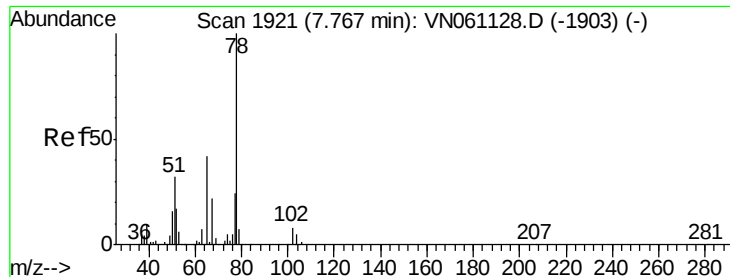
#31
Cyclohexane
Concen: 1.049 ug/l
RT: 7.40 min Scan# 1807
Delta R.T. 0.02 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Tgt Ion: 56 Resp: 4135
Ion Ratio Lower Upper
56 100
69 177.1 25.9 38.9#
84 130.4 67.4 101.0#



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

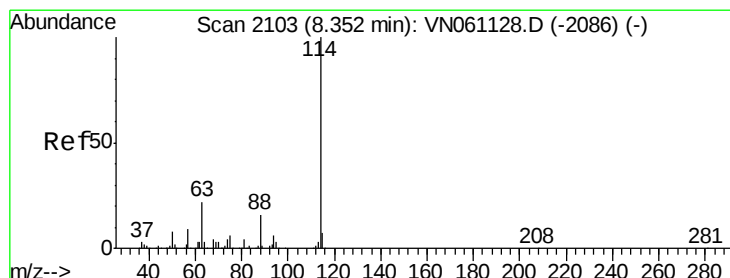
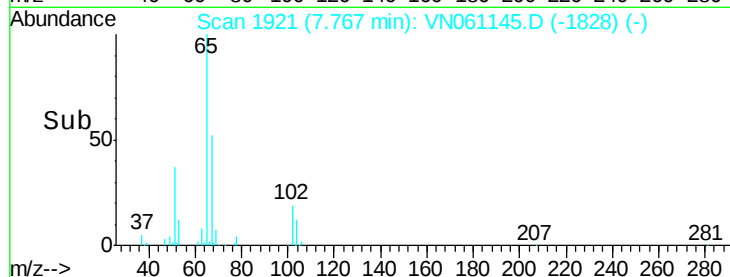
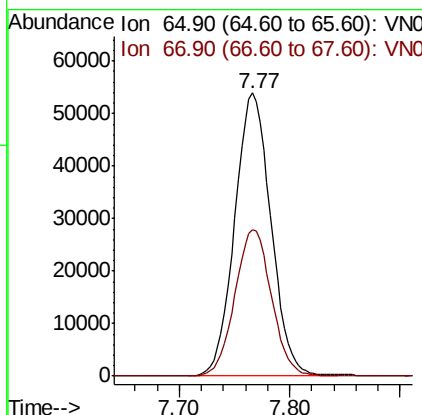
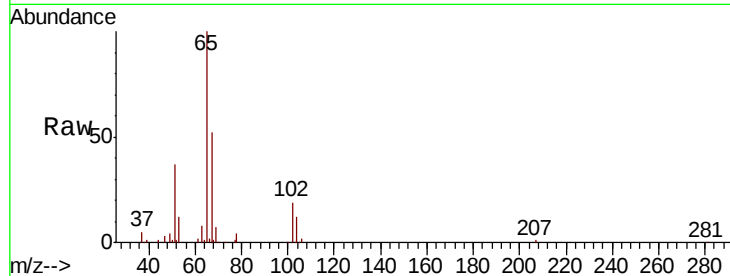




#33
 1,2-Dichloroethane-d4
 Concen: 47.861 ug/l
 RT: 7.77 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VN061145.D
 Acq: 22 Apr 2020 22:10

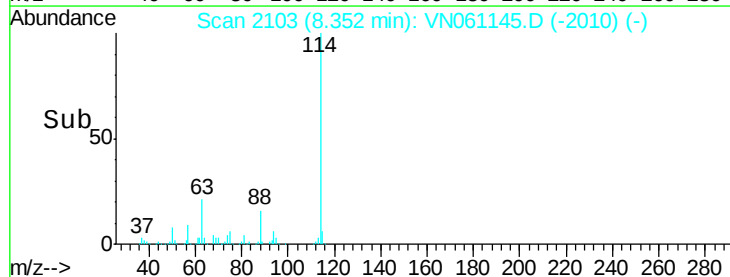
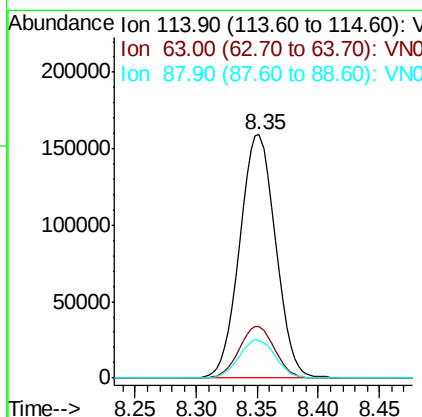
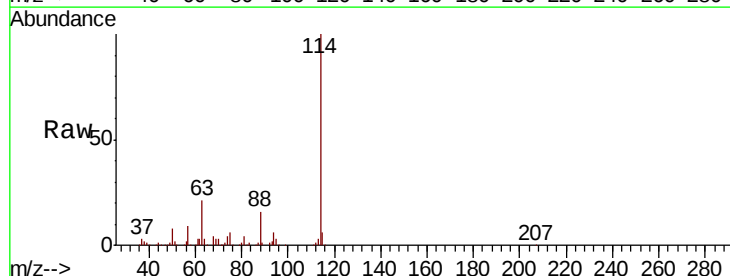
Instrument :
 MSVOA_V
 ClientSampled :

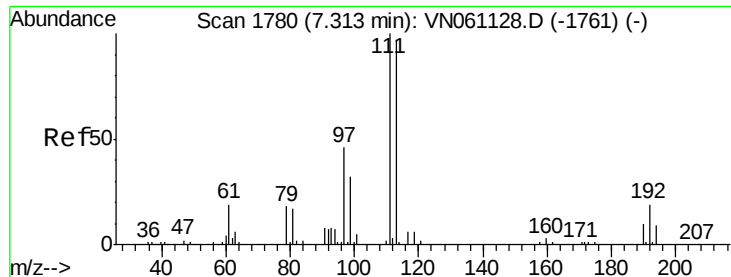
Tot Ion: 65 Resp: 122891
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.35 min Scan# 2103
 Delta R.T. -0.00 min
 Lab File: VN061145.D
 Acq: 22 Apr 2020 22:10

Tgt Ion: 114 Resp: 323783
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 43.2
 88 15.6 0.0 32.4

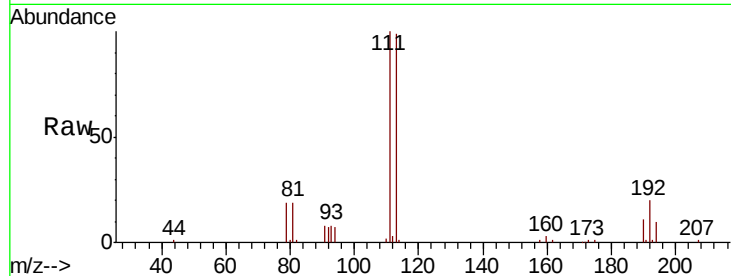




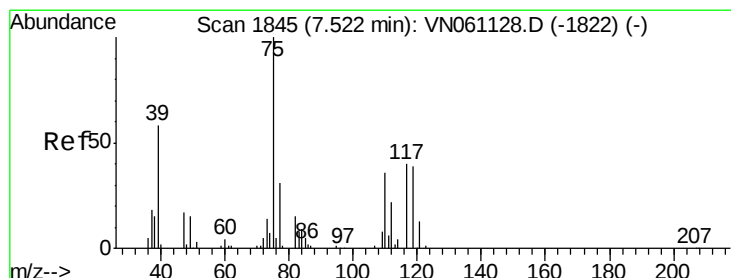
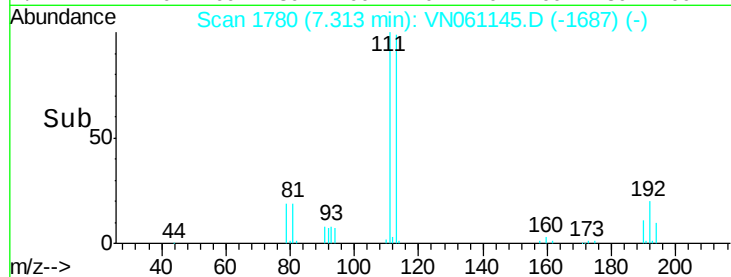
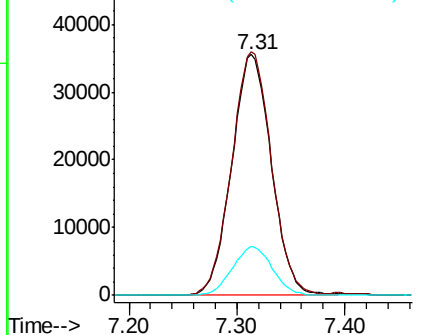
#35
 Dibromofluoromethane
 Concen: 49.154 ug/l
 RT: 7.31 min Scan# 1780
 Delta R.T. -0.00 min
 Lab File: VN061145.D
 Acq: 22 Apr 2020 22:10

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.0	124.6
192	20.3	15.8	23.6

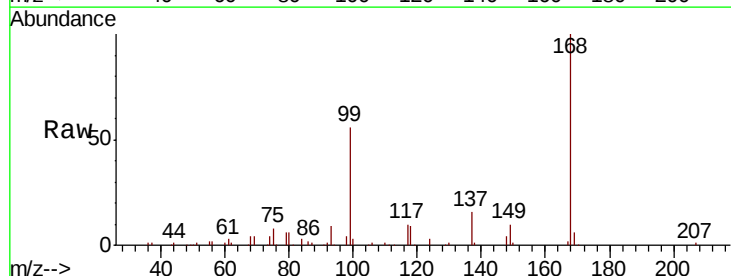


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

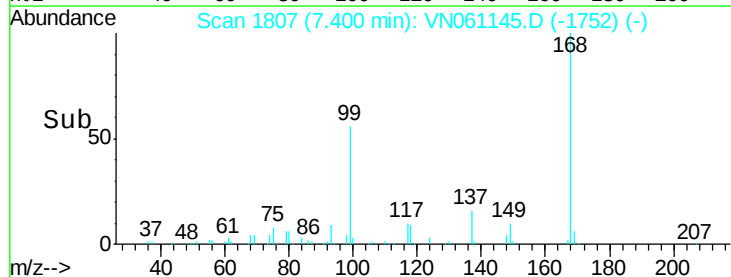
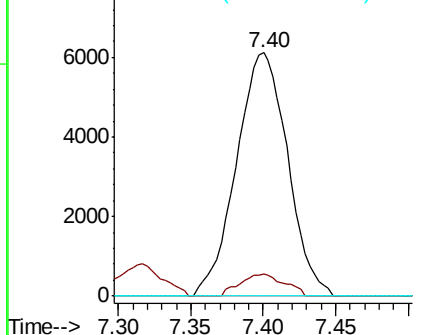


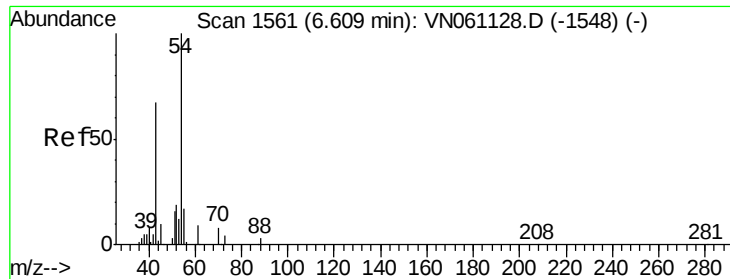
#36
 1,1-Dichloropropene
 Concen: 4.747 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. -0.12 min
 Lab File: VN061145.D
 Acq: 22 Apr 2020 22:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.7	53.1#
77	0.0	24.8	37.2#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

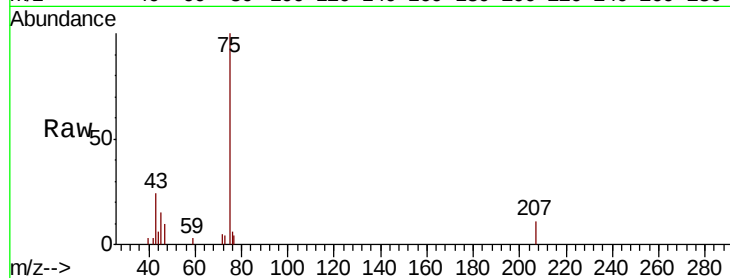




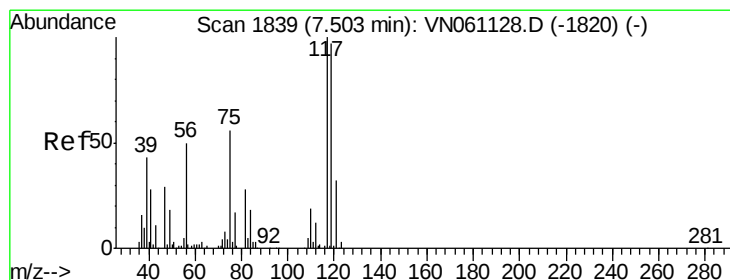
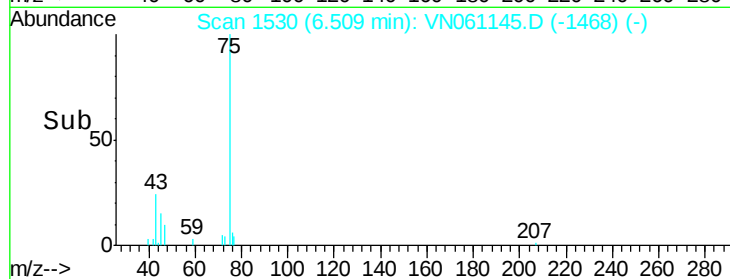
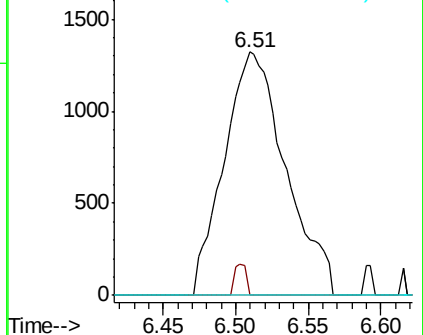
#37
Ethyl Acetate
Concen: 1.230 ug/l
RT: 6.51 min Scan# 1530
Delta R.T. -0.10 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 3901
Ion Ratio Lower Upper
43 100
61 2.4 11.4 17.0#
70 0.0 8.2 12.4#

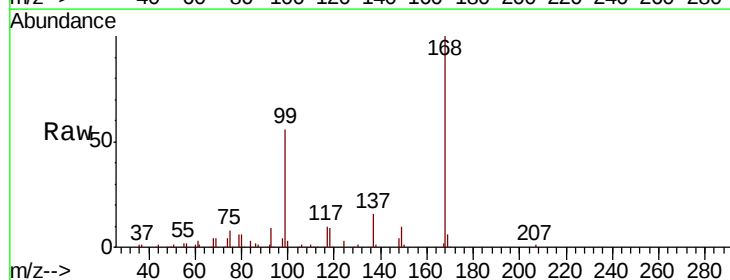


Abundance Ion 43.00 (42.70 to 43.70): VN061145.D (-1468) (-)
Ion 60.90 (60.60 to 61.60): VN061145.D (-1468) (-)
Ion 70.00 (69.70 to 70.70): VN061145.D (-1468) (-)

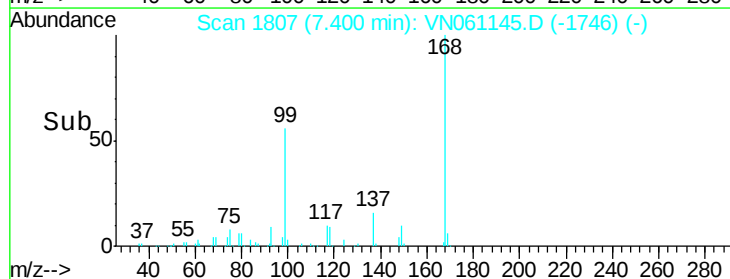
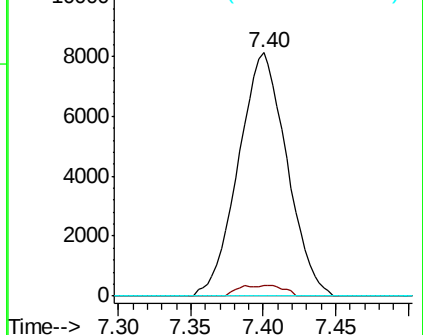


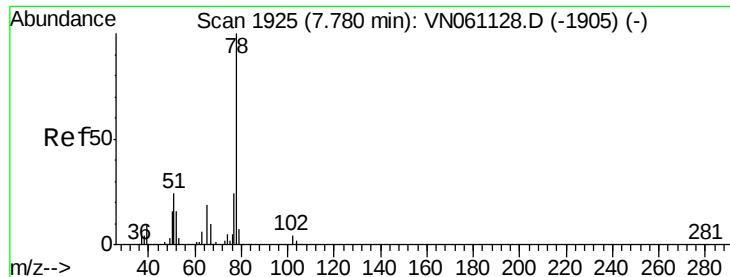
#38
Carbon Tetrachloride
Concen: 6.813 ug/l
RT: 7.40 min Scan# 1807
Delta R.T. -0.10 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Tgt Ion: 117 Resp: 18874
Ion Ratio Lower Upper
117 100
119 4.3 76.9 115.3#
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VN061145.D (-1746) (-)
Ion 118.80 (118.50 to 119.50): VN061145.D (-1746) (-)
Ion 120.80 (120.50 to 121.50): VN061145.D (-1746) (-)





#40

Benzene

Concen: 0.793 ug/l

RT: 7.78 min Scan# 1925

Delta R.T. -0.00 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

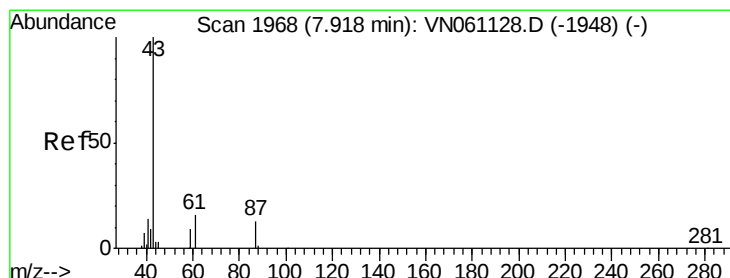
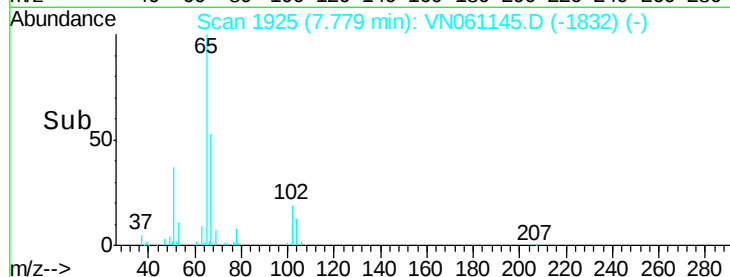
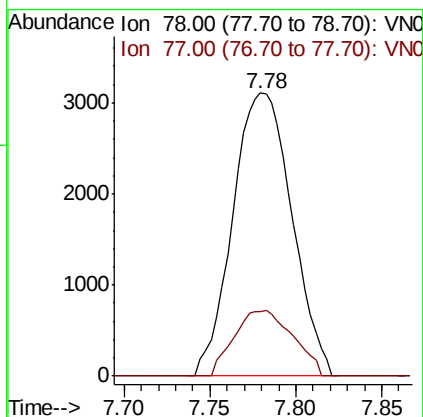
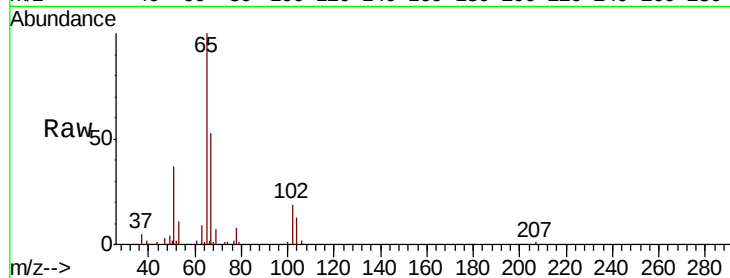
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 78 Resp: 7429

Ion Ratio Lower Upper

78 100

77 22.9 19.0 28.6



#43

Isopropyl Acetate

Concen: 10.105 ug/l

RT: 7.92 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

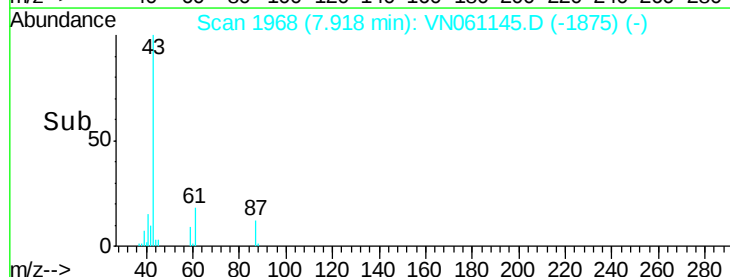
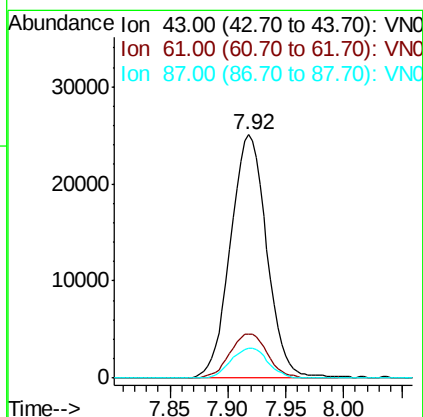
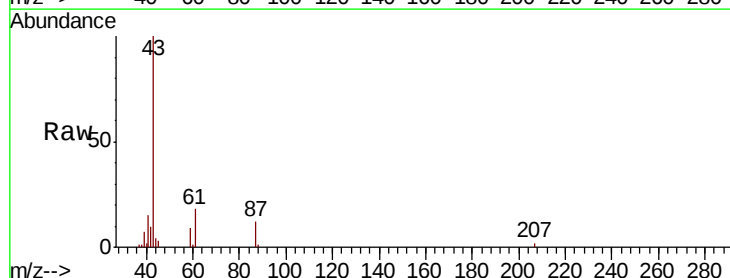
Tgt Ion: 43 Resp: 54431

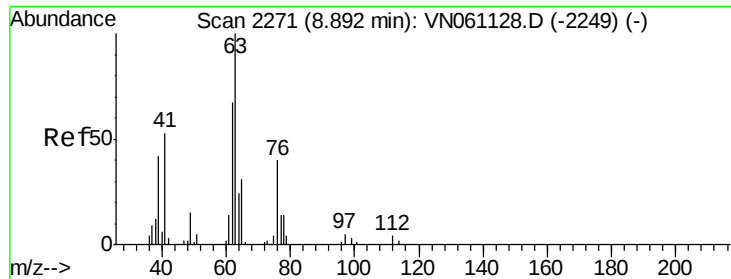
Ion Ratio Lower Upper

43 100

61 18.8 15.5 23.3

87 12.4 10.2 15.4





#45

1,2-Dichloropropane

Concen: 0.428 ug/l

RT: 9.05 min Scan# 2320

Delta R.T. 0.16 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

Instrument :

MSVOA_V

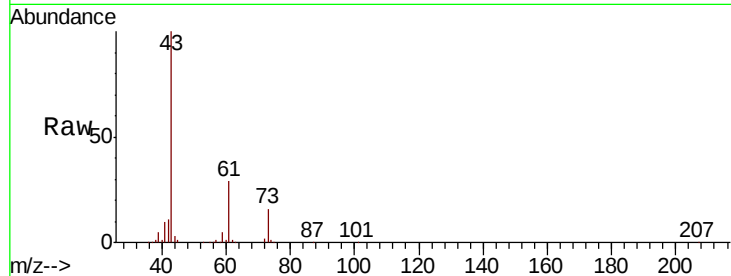
ClientSampleId :

Tot Ion: 63 Resp: 1061

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

800

600

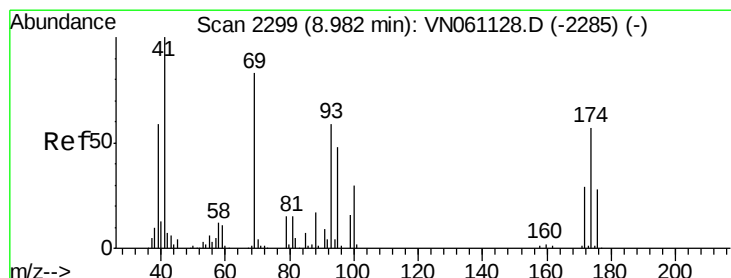
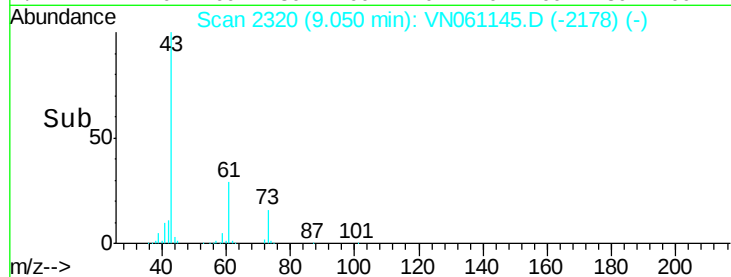
400

200

0

9.02 9.04 9.06 9.08

Time-->



#48

Methyl methacrylate

Concen: 1.167 ug/l

RT: 8.95 min Scan# 2290

Delta R.T. -0.03 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

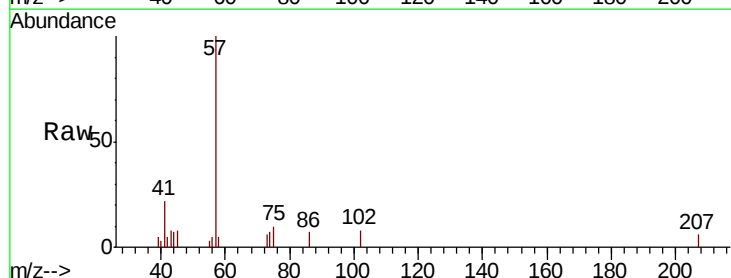
Tgt Ion: 41 Resp: 2960

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.2#

39 0.0 47.8 71.6#



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

20000

15000

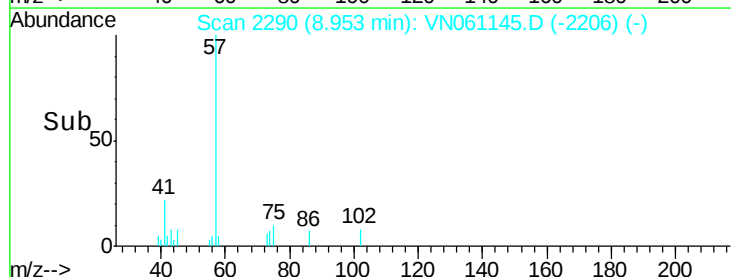
10000

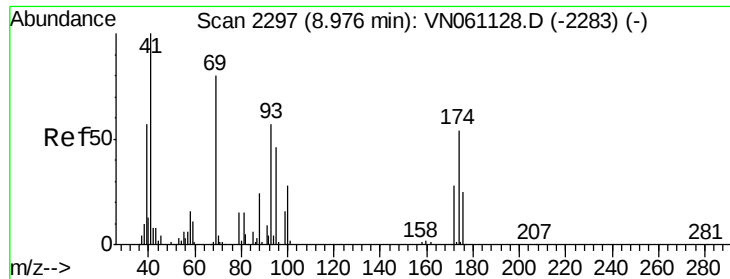
5000

0

8.90 8.95 9.00

Time-->

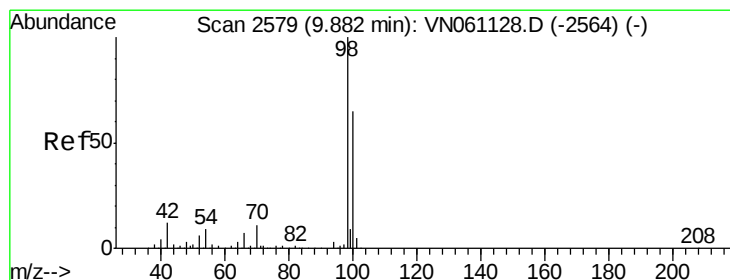
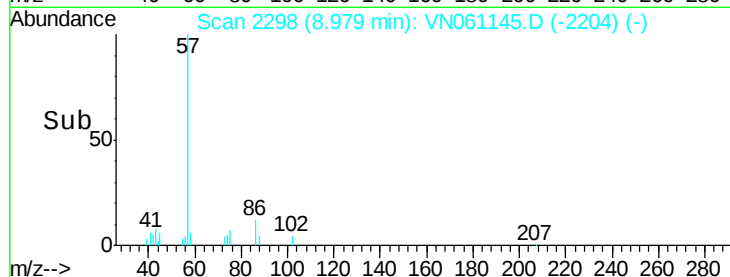
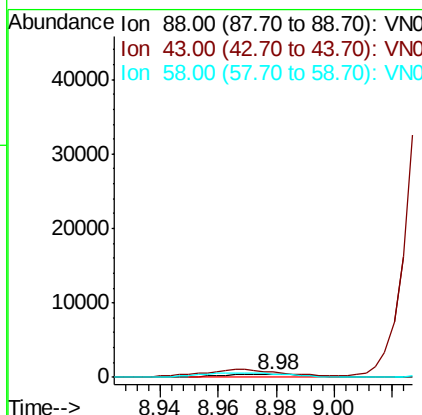
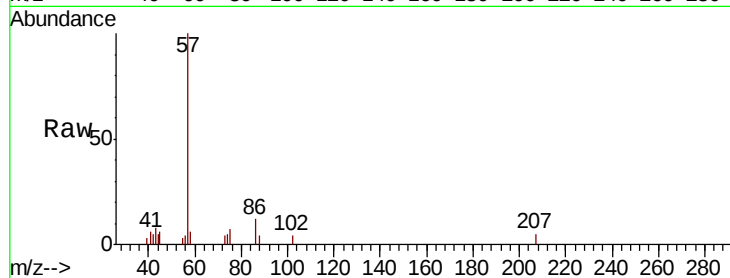




#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 8.98 min Scan# 2298
 Delta R.T. 0.00 min
 Lab File: VN061145.D
 Acq: 22 Apr 2020 22:10

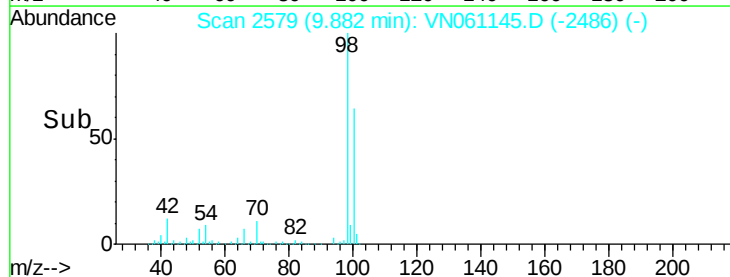
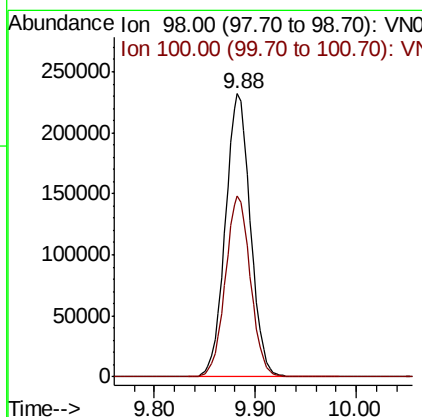
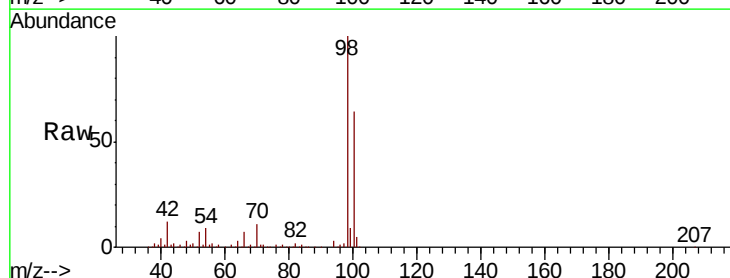
Instrument :
 MSVOA_V
 ClientSampleId :

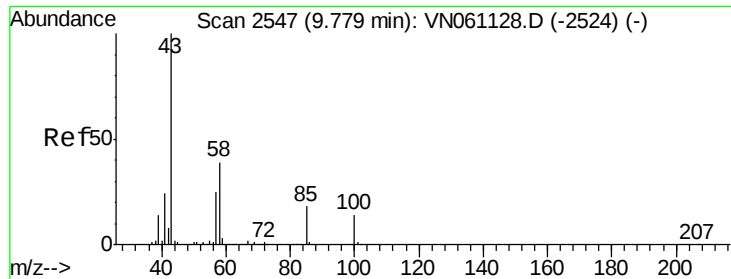
Tot Ion: 88 Resp: 759
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.0 43.4#
 58 165.2 57.8 86.6#



#50
 Toluene-d8
 Concen: 50.780 ug/l
 RT: 9.88 min Scan# 2579
 Delta R.T. -0.00 min
 Lab File: VN061145.D
 Acq: 22 Apr 2020 22:10

Tgt Ion: 98 Resp: 402079
 Ion Ratio Lower Upper
 98 100
 100 64.1 51.8 77.6

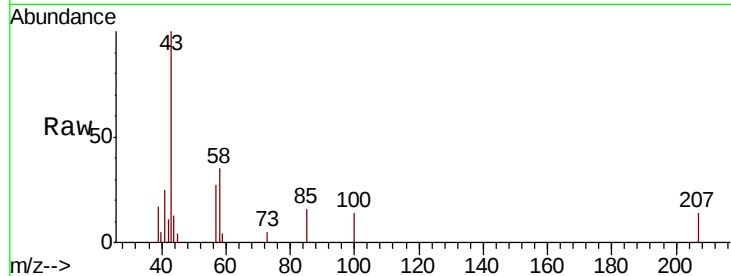




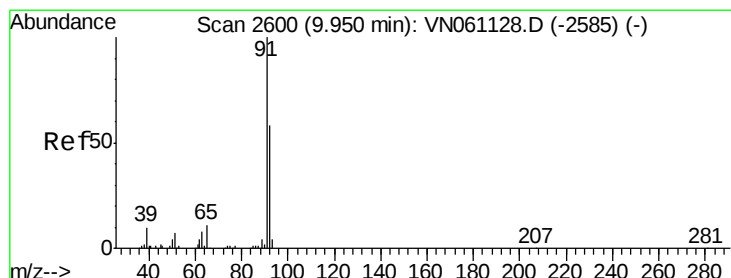
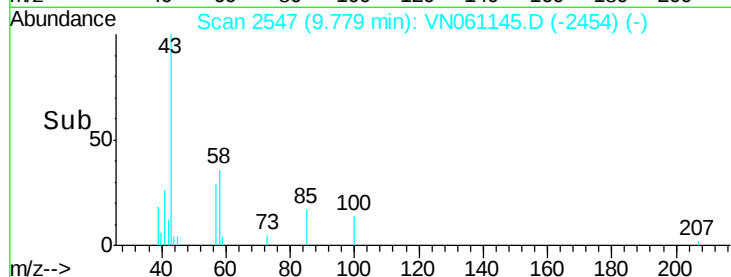
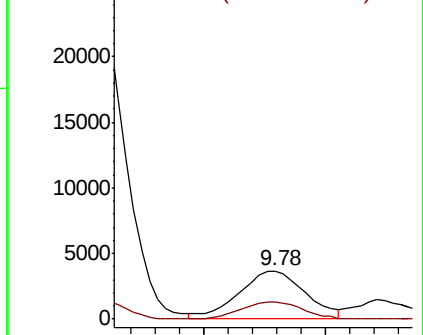
#51
4-Methyl-2-Pentanone
Concen: 2.139 ug/l
RT: 9.78 min Scan# 2547
Delta R.T. -0.00 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 6724
Ion Ratio Lower Upper
43 100
58 33.1 31.0 46.6

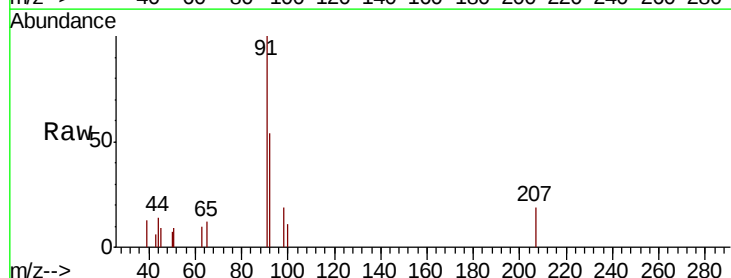


Abundance Ion 43.00 (42.70 to 43.70): VN061128.D (-2524) (-)
Ion 58.00 (57.70 to 58.70): VN061128.D (-2524) (-)

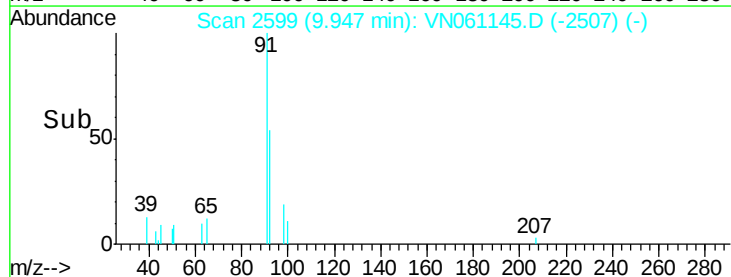
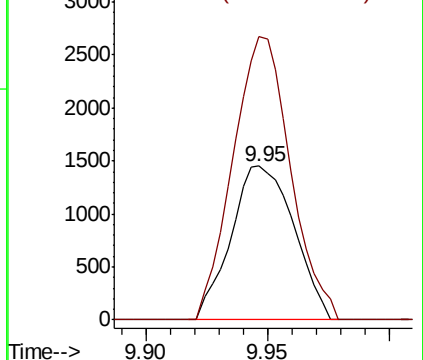


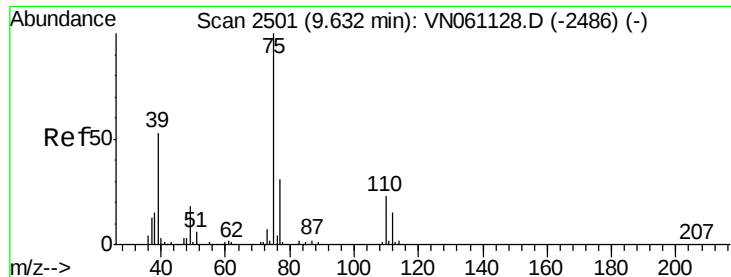
#52
Toluene
Concen: 0.443 ug/l
RT: 9.95 min Scan# 2599
Delta R.T. -0.00 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Tgt Ion: 92 Resp: 2599
Ion Ratio Lower Upper
92 100
91 168.4 138.3 207.5



Abundance Ion 92.00 (91.70 to 92.70): VN061128.D (-2585) (-)
Ion 91.00 (90.70 to 91.70): VN061128.D (-2585) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.763 ug/l

RT: 9.71 min Scan# 2524

Delta R.T. 0.07 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

Instrument :
MSVOA_V
ClientSampleId :

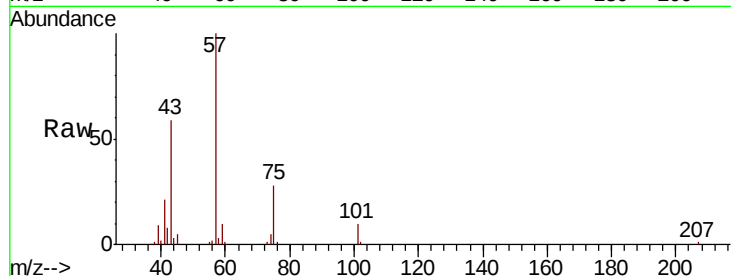
Tot Ion: 75 Resp: 22974

Ion Ratio Lower Upper

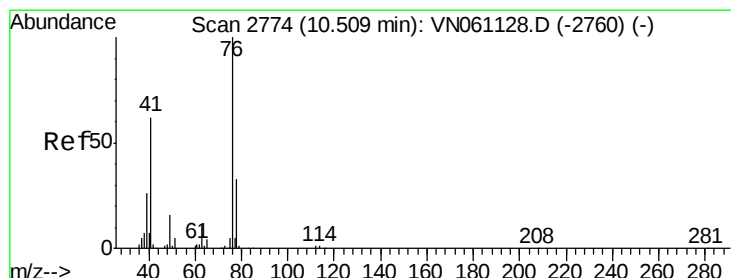
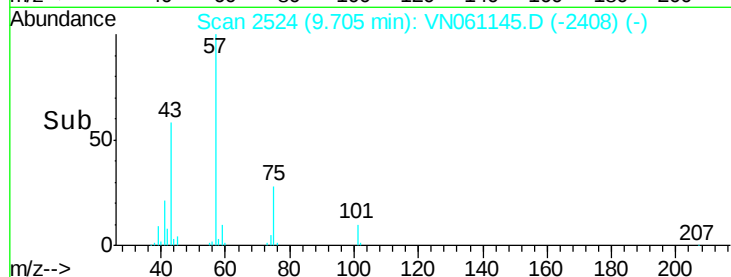
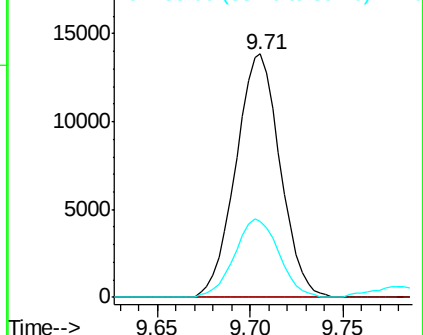
75 100

77 0.0 25.2 37.8#

39 31.0 42.1 63.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.031 ug/l

RT: 10.57 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN061145.D

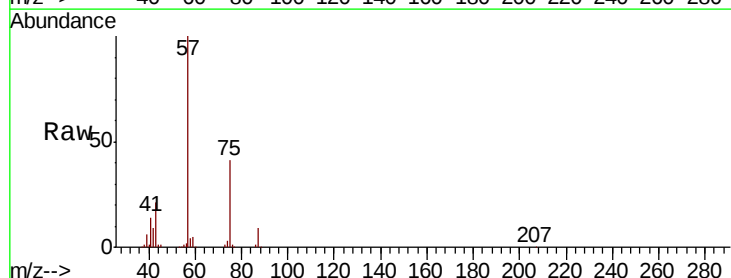
Acq: 22 Apr 2020 22:10

Tgt Ion: 76 Resp: 3955

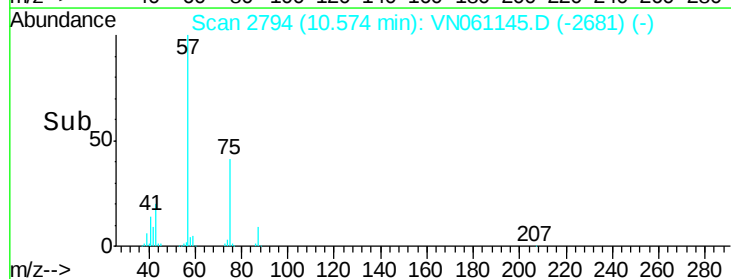
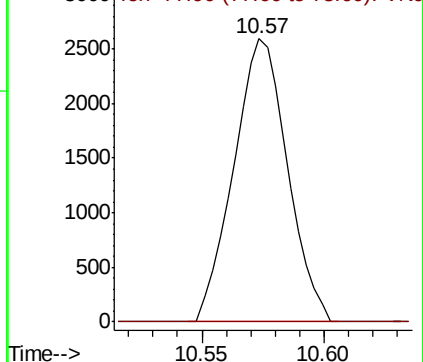
Ion Ratio Lower Upper

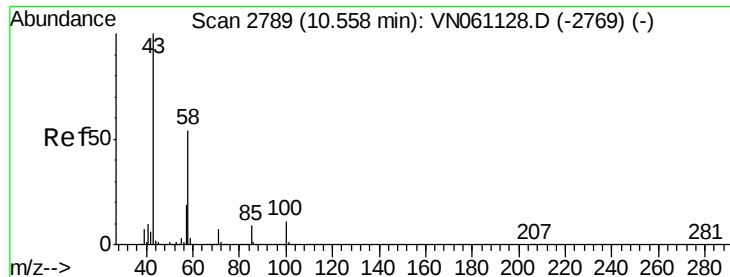
76 100

78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 24.547 ug/l

RT: 10.57 min Scan# 2794

Delta R.T. 0.02 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

Instrument :

MSVOA_V

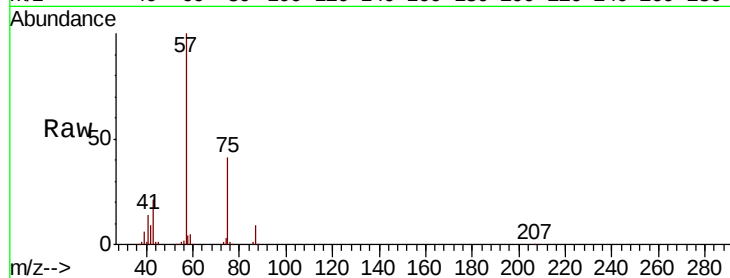
ClientSampleId :

Tot Ion: 43 Resp: 57012

Ion Ratio Lower Upper

43 100

58 18.7 26.9 80.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.57

40000

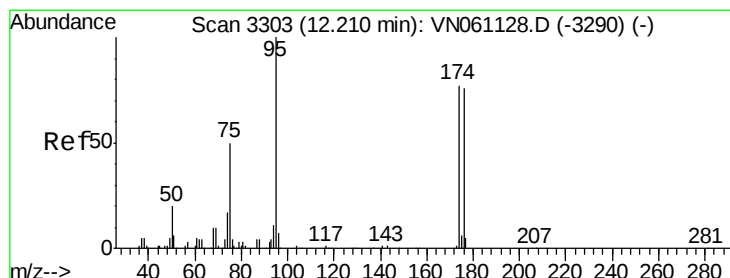
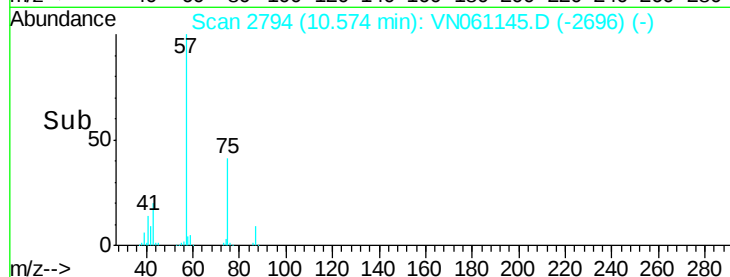
30000

20000

10000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.316 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

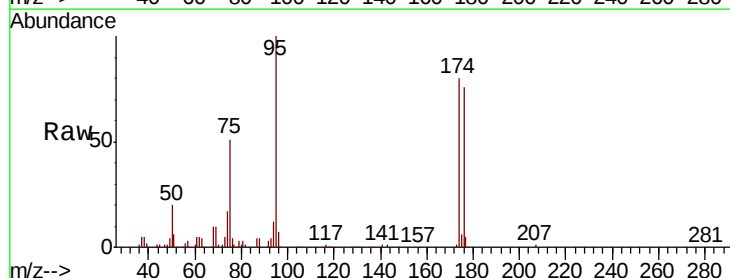
Tgt Ion: 95 Resp: 155140

Ion Ratio Lower Upper

95 100

174 81.2 0.0 157.6

176 77.3 0.0 154.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

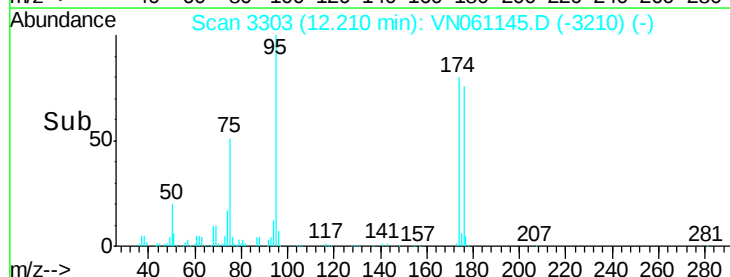
12.21

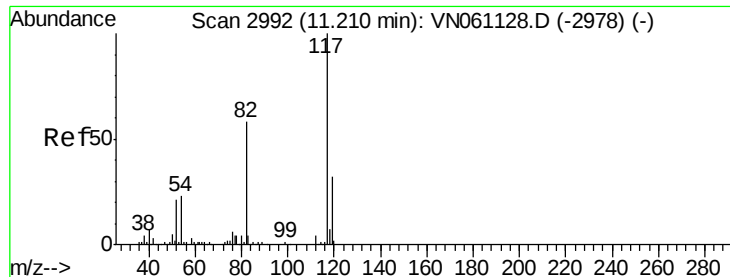
100000

50000

0

Time-->

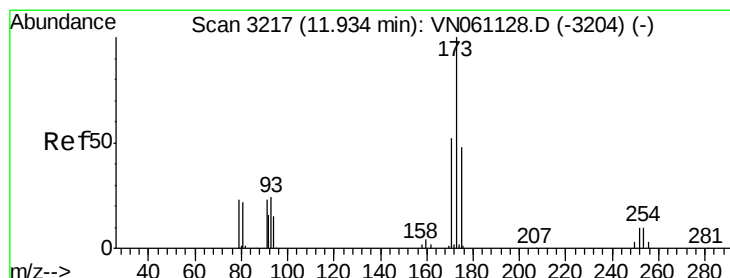
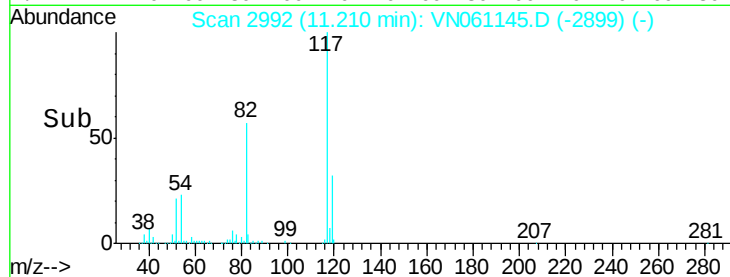
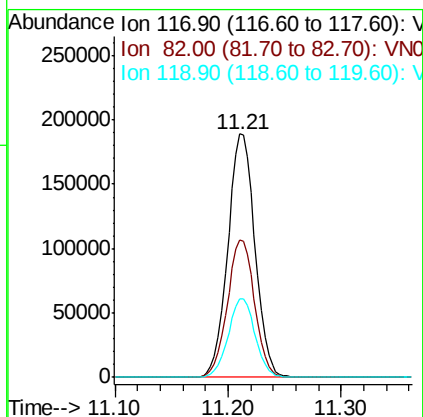
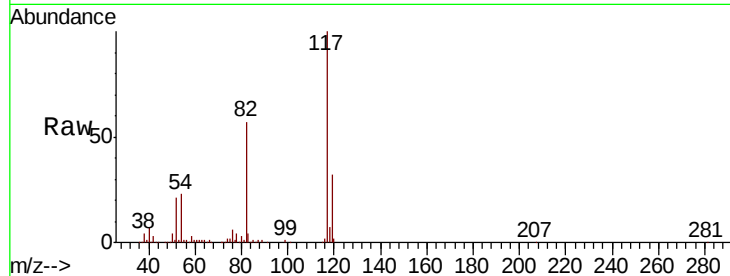




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.21 min Scan# 2992
Delta R.T. -0.00 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

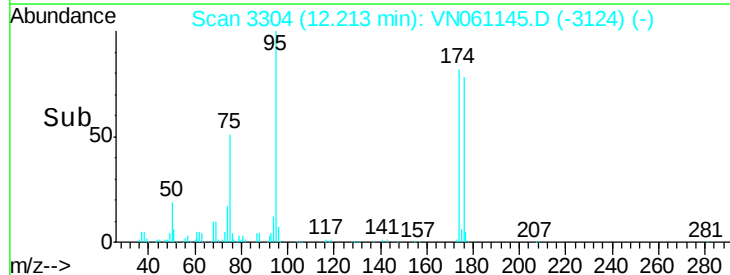
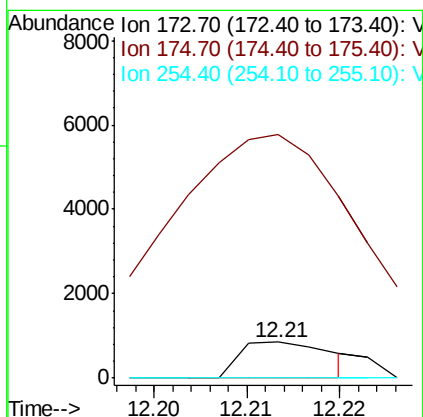
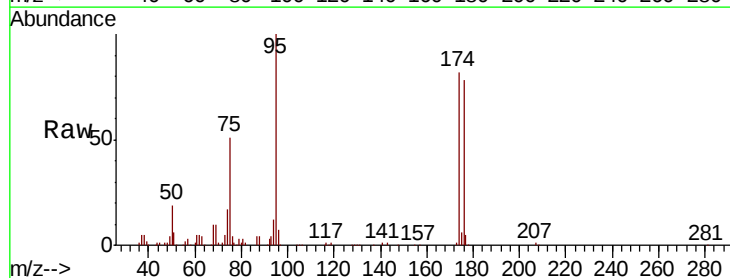
Instrument :
MSVOA_V
ClientSampleId :

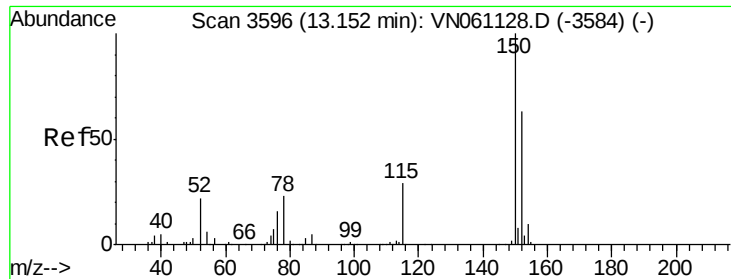
Tot Ion:117 Resp: 314646
Ion Ratio Lower Upper
117 100
82 56.7 46.0 69.0
119 32.1 25.9 38.9



#71
Bromoform
Concen: 0.339 ug/l
RT: 12.21 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Tgt Ion:173 Resp: 579
Ion Ratio Lower Upper
173 100
175 1306.7 23.9 71.8#
254 0.0 0.0 0.0



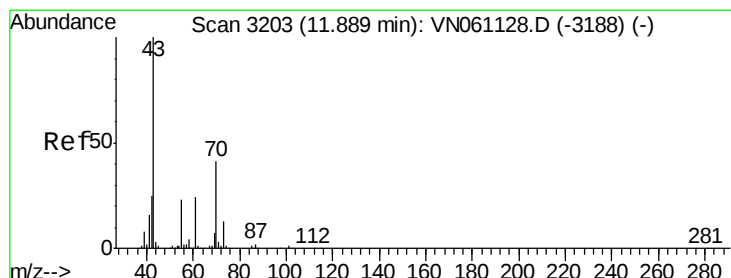
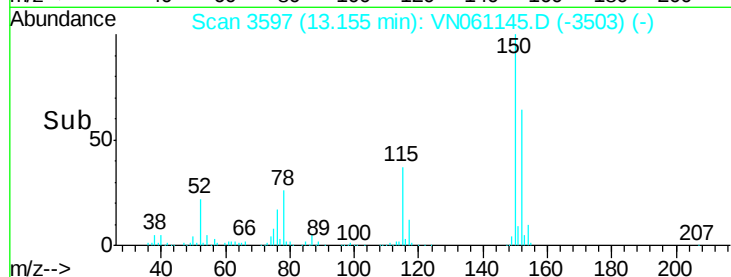
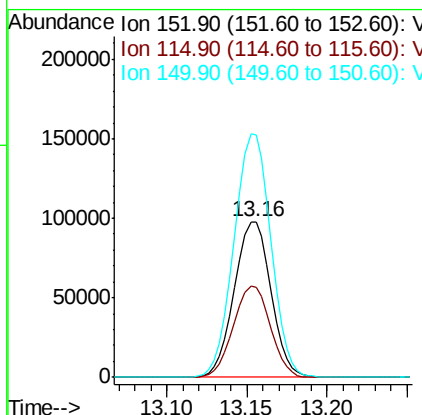
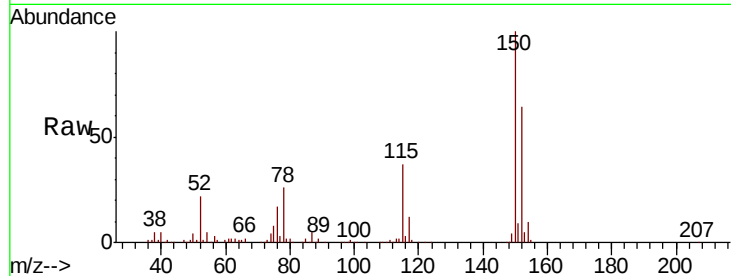


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.16 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Instrument :
MSVOA_V
ClientSampleId :

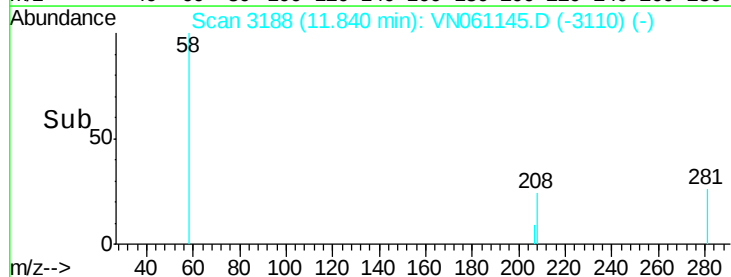
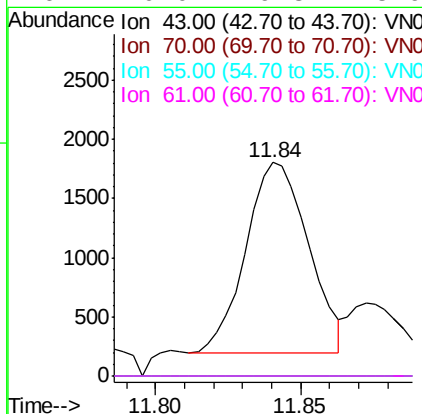
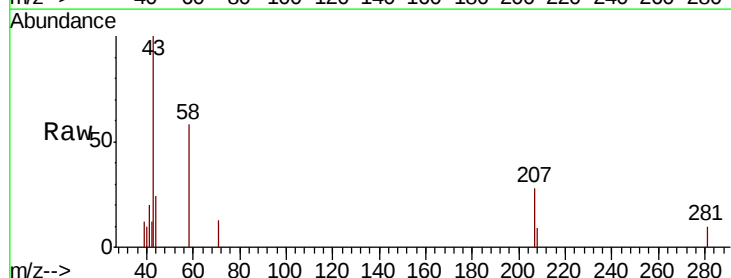
Tot Ion	Ratio	Lower	Upper
152	100		
115	58.9	29.8	89.5
150	157.2	0.0	348.6

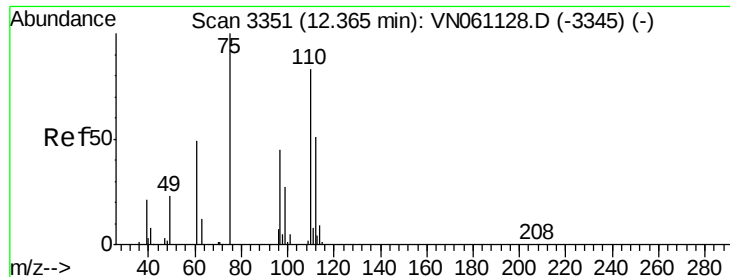


#74

N-ethyl acetate
Concen: 0.465 ug/l
RT: 11.84 min Scan# 3188
Delta R.T. -0.05 min
Lab File: VN061145.D
Acq: 22 Apr 2020 22:10

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.5	48.7#
55	0.0	19.0	28.6#
61	0.0	19.3	28.9#





#76

1,2,3-Trichloropropane

Concen: 22.714 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

Instrument :

MSVOA_V

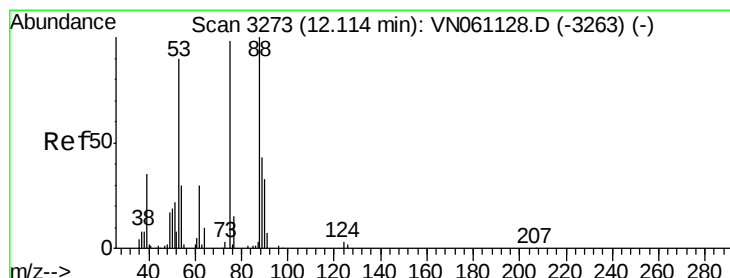
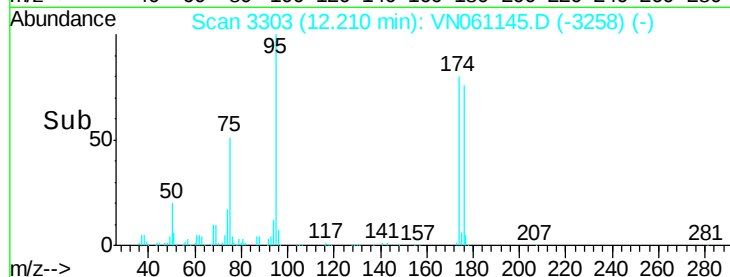
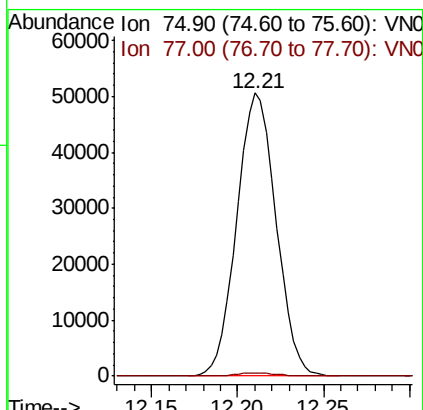
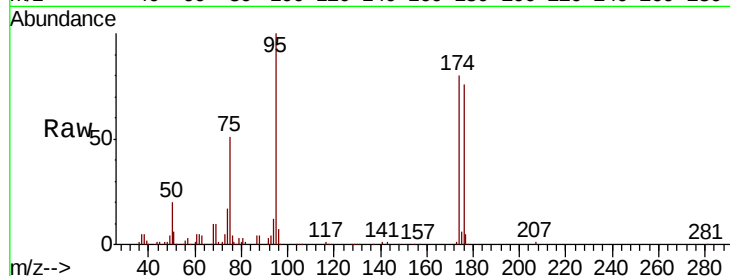
ClientSampleId :

Tot Ion: 75 Resp: 80182

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.653 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061145.D

Acq: 22 Apr 2020 22:10

Tgt Ion: 75 Resp: 80182

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

89 0.0 36.6 55.0#

