

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058826.D
 Acq On : 17 Oct 2019 14:46
 Operator : JC/SP
 Sample : K5393-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:27:55 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	390404	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	624377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	572037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	218481	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	287752	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	
35) Dibromofluoromethane	7.57	113	204771	53.10	ug/l	0.00
Spiked Amount			Recovery	=	106.20%	
50) Toluene-d8	10.08	98	804436	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.40	95	259325	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

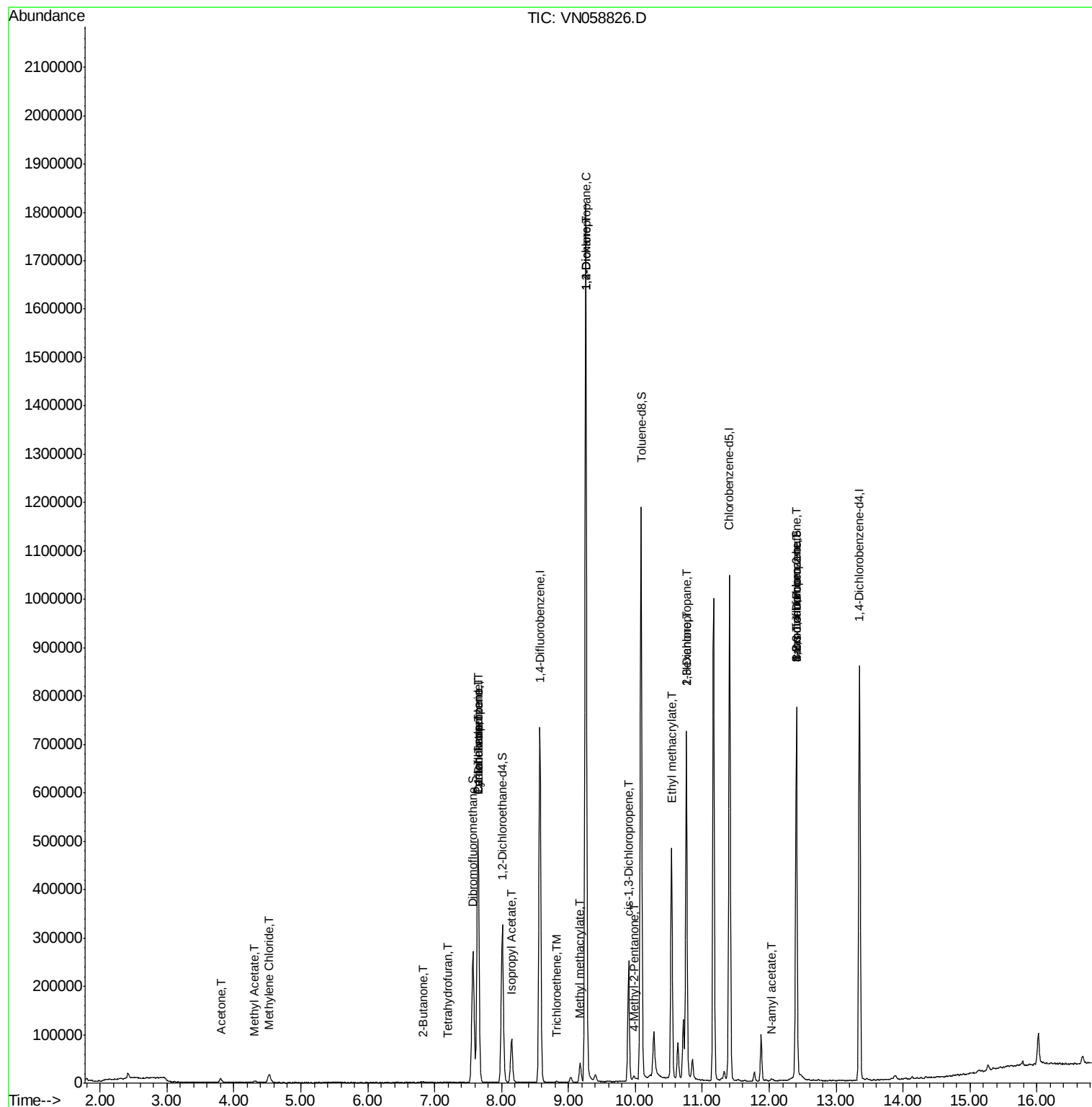
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	13785	6.092	ug/l	98
18) Methyl Acetate	4.30	43	2967	0.517	ug/l #	74
20) Methylene Chloride	4.54	84	12631	2.671	ug/l	94
25) 2-Butanone	6.83	43	1463	0.447	ug/l #	50
29) Tetrahydrofuran	7.19	42	613	0.290	ug/l #	35
31) Cyclohexane	7.64	56	9152	1.142	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	33090	5.242	ug/l #	51
38) Carbon Tetrachloride	7.65	117	40475	6.579	ug/l #	18
43) Isopropyl Acetate	8.15	43	105329	9.684	ug/l #	90
44) Trichloroethene	8.81	130	1205	0.268	ug/l	53
45) 1,2-Dichloropropane	9.26	63	1919	0.395	ug/l #	45
48) Methyl methacrylate	9.17	41	6339	1.286	ug/l #	14
49) 1,4-Dioxane	9.26	88	73	0.957	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7526	1.232	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	39686	5.201	ug/l #	69
56) Ethyl methacrylate	10.54	69	2224	0.335	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7009	0.906	ug/l #	42
59) 2-Hexanone	10.76	43	108874	23.064	ug/l #	53
71) Bromoform	12.41	173	1586	0.504	ug/l #	1
74) N-amyl acetate	12.03	43	4110	0.578	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	138723	28.943	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	138723	77.530	ug/l #	11

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

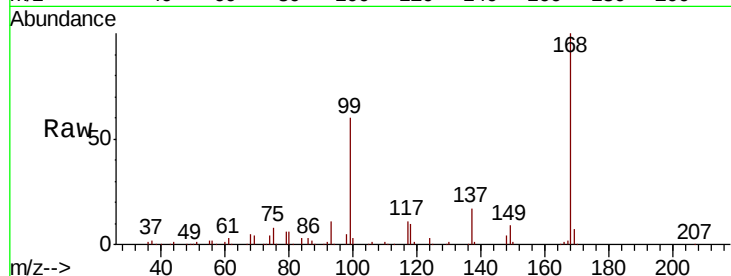
ClientSampled :

Tot Ion:168 Resp: 390404

Ion Ratio Lower Upper

168 100

99 60.5 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

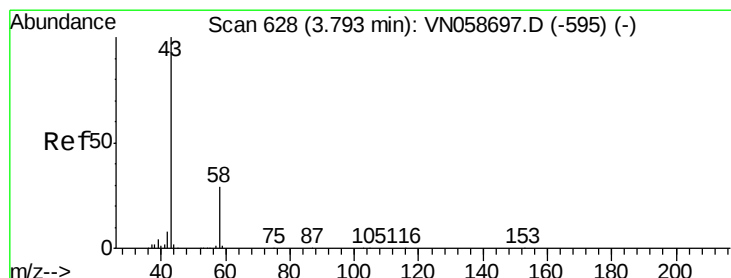
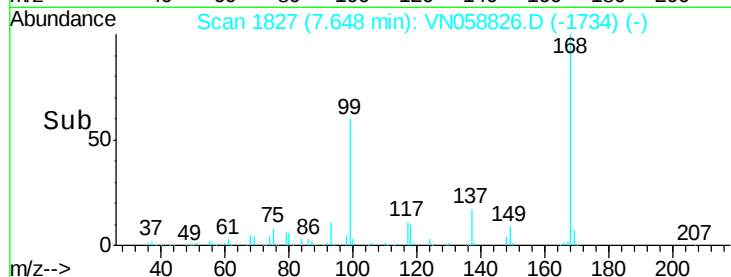
100000

50000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 6.092 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058826.D

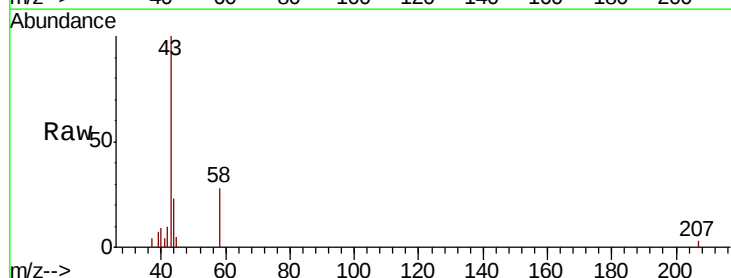
Acq: 17 Oct 2019 14:46

Tgt Ion: 43 Resp: 13785

Ion Ratio Lower Upper

43 100

58 27.9 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

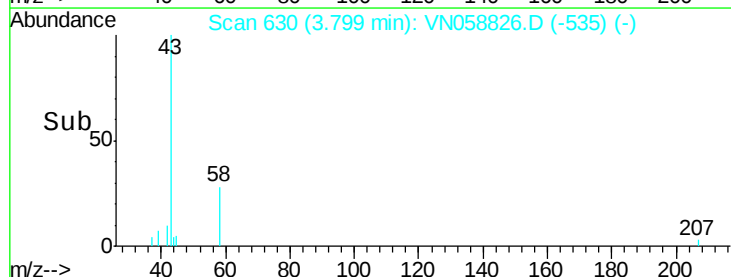
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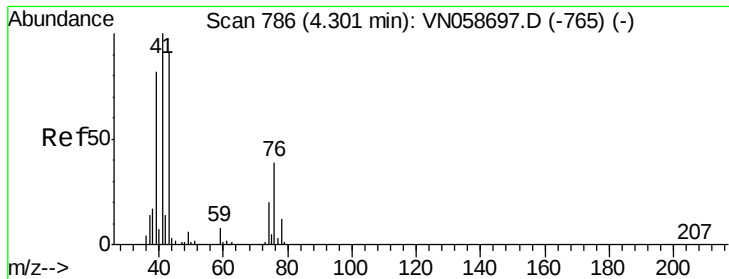
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

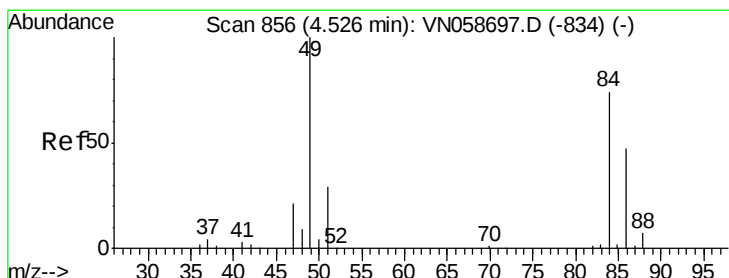
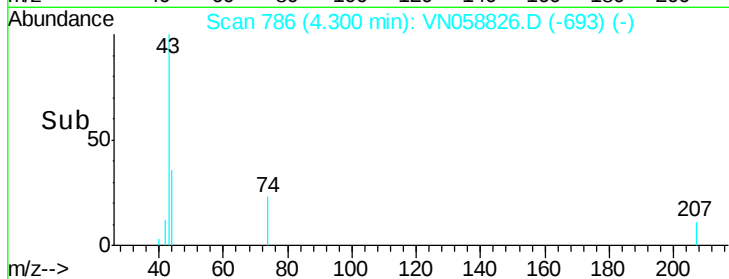
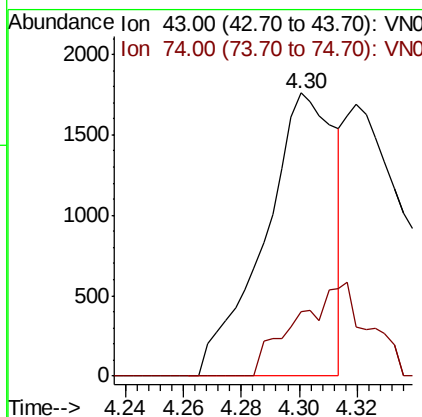
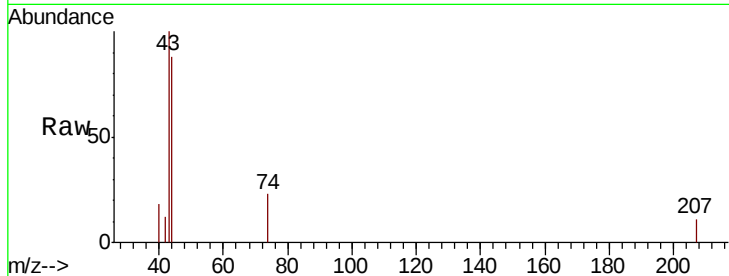




#18
Methyl Acetate
Concen: 0.517 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

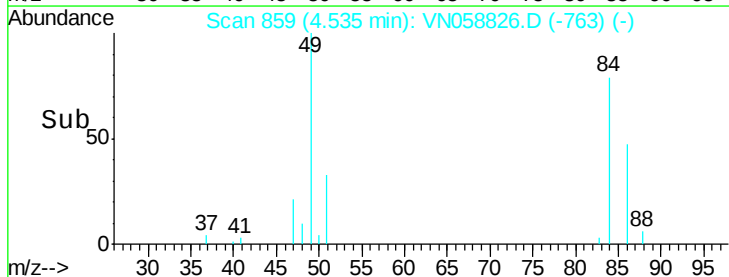
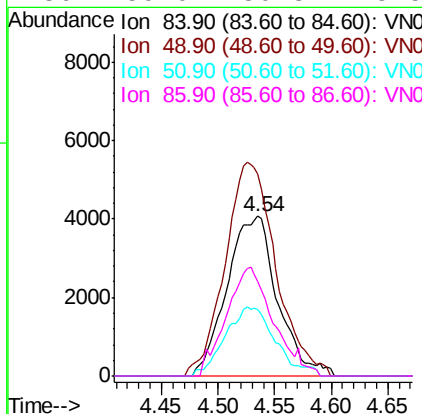
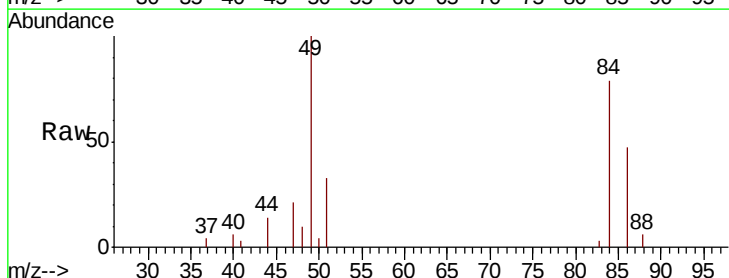
Instrument :
MSVOA_N
ClientSampleId :

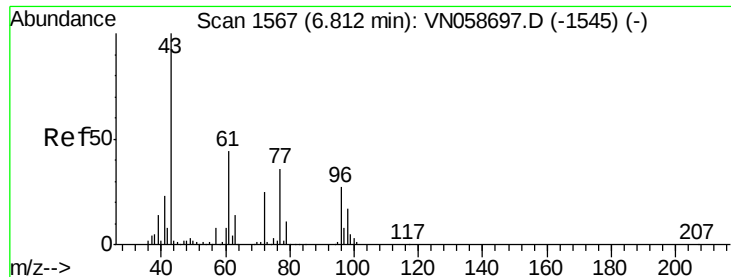
Tot Ion: 43 Resp: 2967
Ion Ratio Lower Upper
43 100
74 33.6 17.2 25.8#



#20
Methylene Chloride
Concen: 2.671 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

Tgt Ion: 84 Resp: 12631
Ion Ratio Lower Upper
84 100
49 126.4 107.6 161.4
51 42.0 31.4 47.0
86 59.0 50.3 75.5





#25

2-Butanone

Concen: 0.447 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.02 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

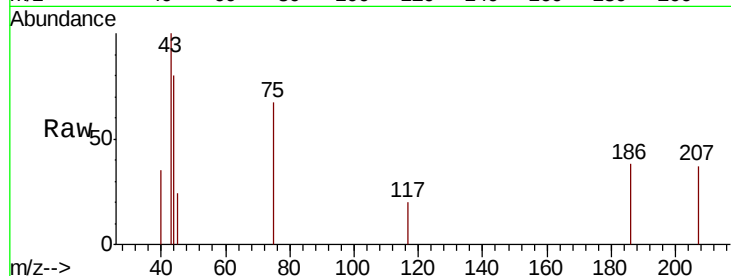
ClientSampleId :

Tot Ion: 43 Resp: 1463

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

6.83

800

600

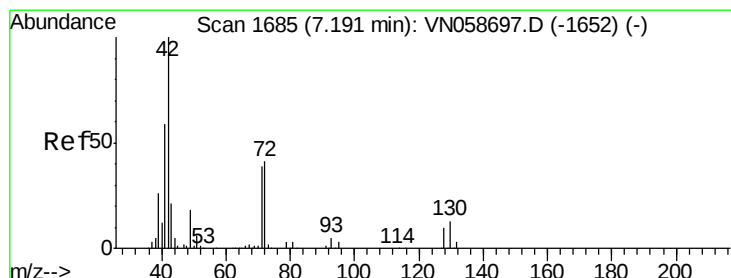
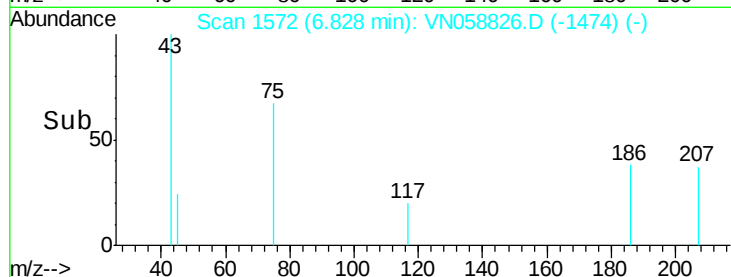
400

200

0

6.78 6.80 6.82 6.84

Time-->



#29

Tetrahydrofuran

Concen: 0.290 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

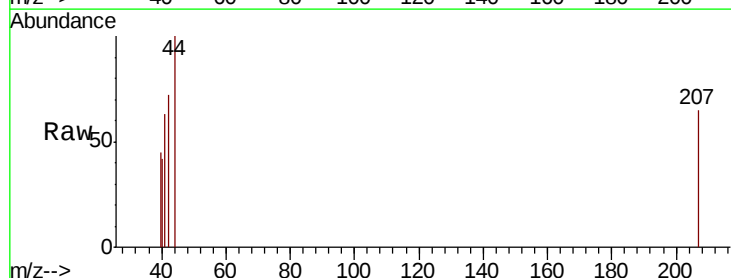
Tgt Ion: 42 Resp: 613

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC

7.19

400

300

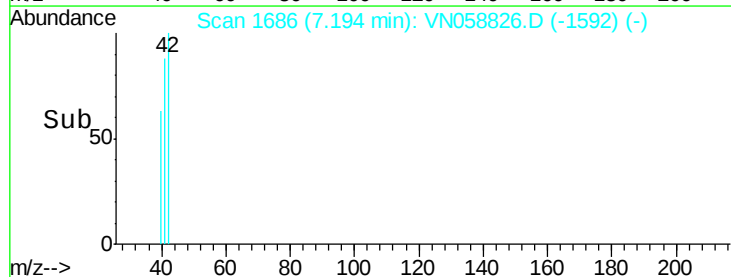
200

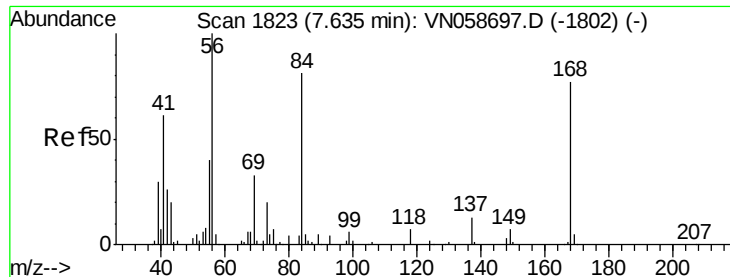
100

0

7.16 7.18 7.20

Time-->

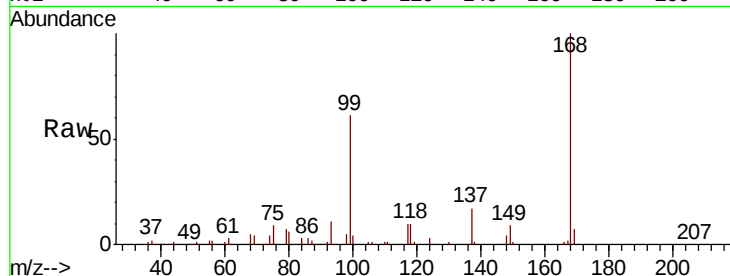




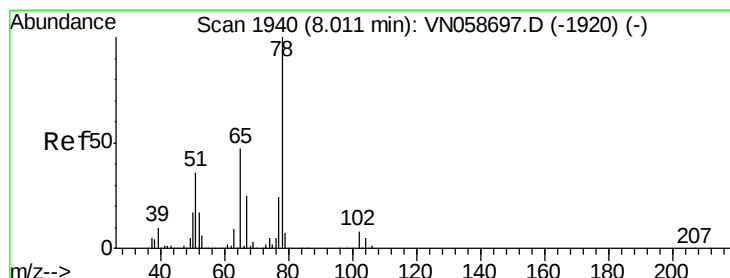
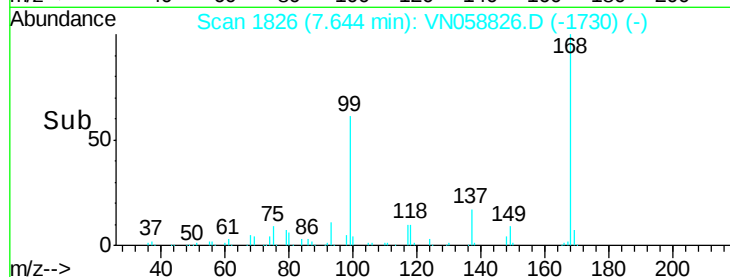
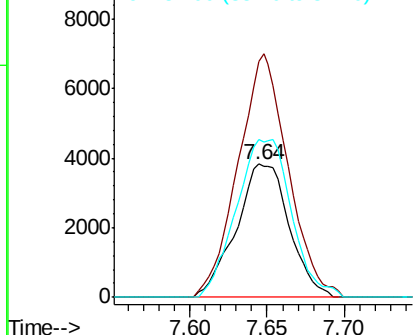
#31
Cyclohexane
Concen: 1.142 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 9152
Ion Ratio Lower Upper
56 100
69 177.0 26.2 39.4#
84 119.0 64.9 97.3#

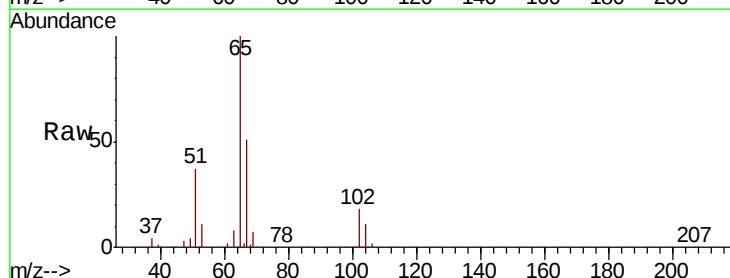


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

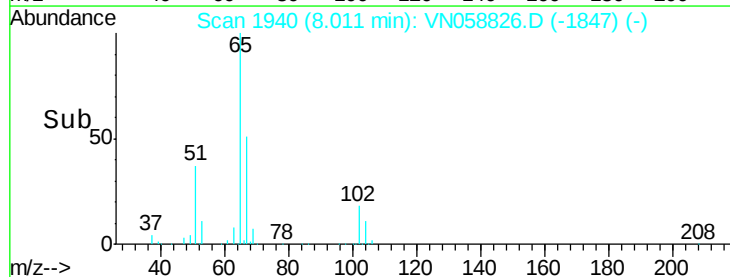
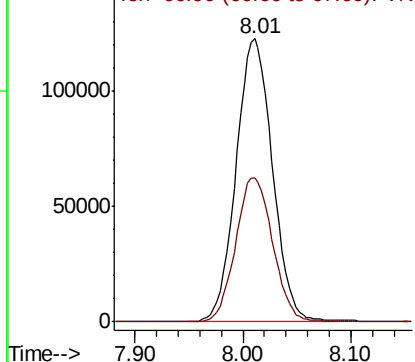


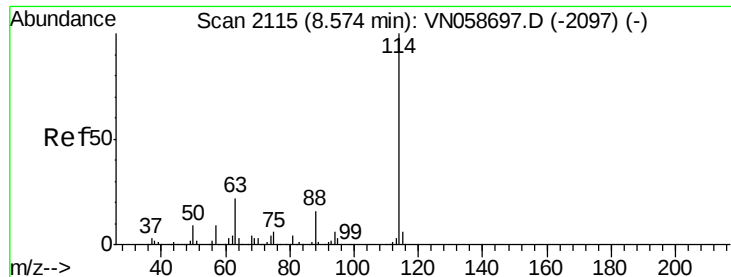
#33
1,2-Dichloroethane-d4
Concen: 52.648 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

Tgt Ion: 65 Resp: 287752
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

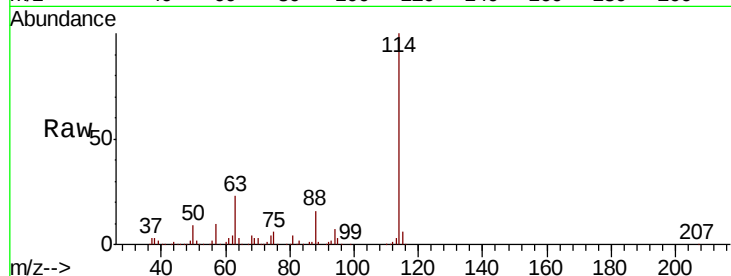




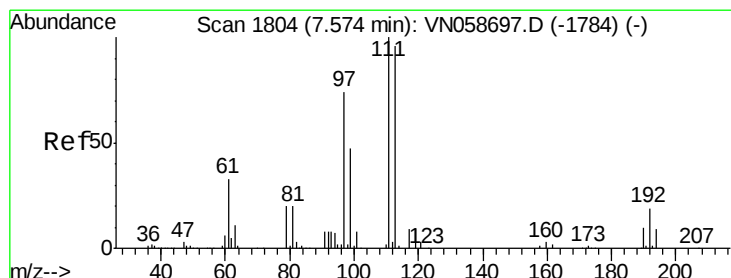
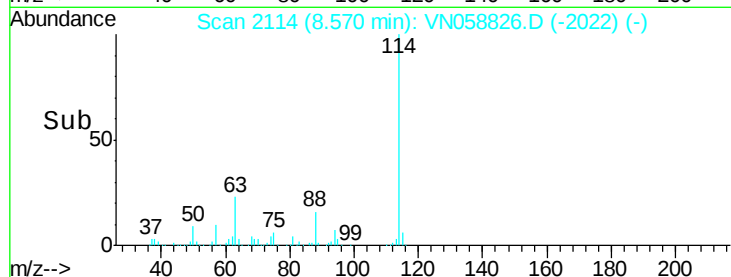
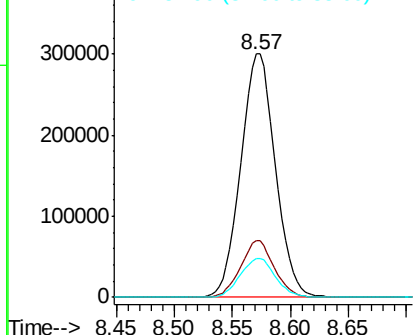
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058826.D
 Acq: 17 Oct 2019 14:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	43.8
88	15.8	0.0	32.0

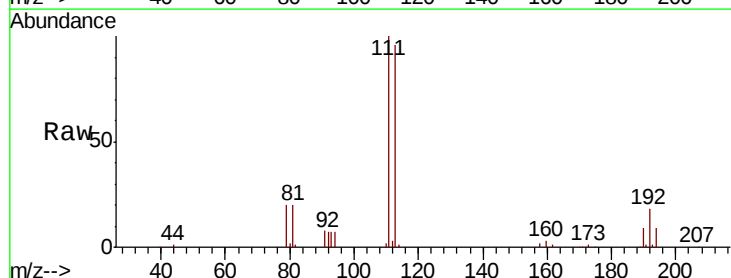


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

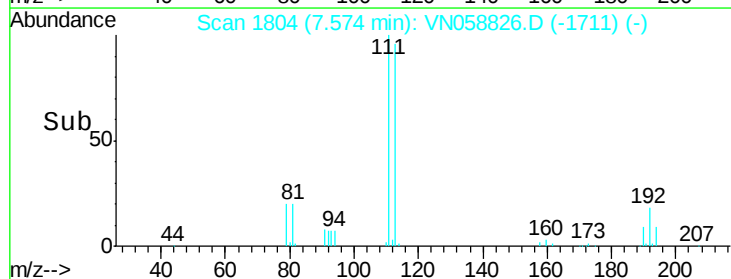
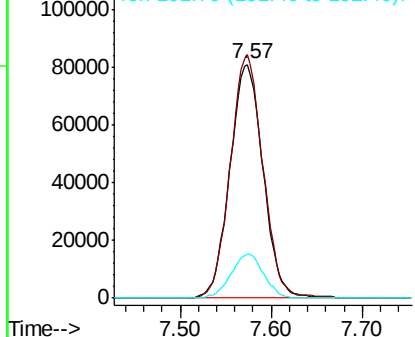


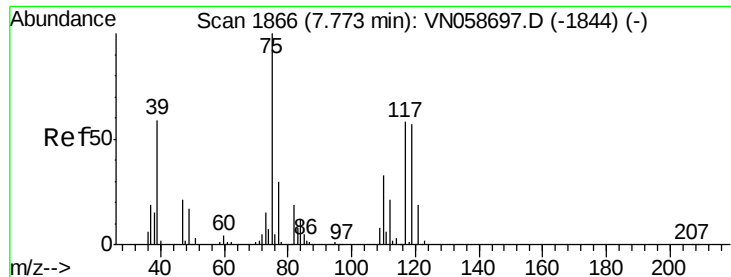
#35
 Dibromofluoromethane
 Concen: 53.096 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058826.D
 Acq: 17 Oct 2019 14:46

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.3	123.5
192	18.5	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

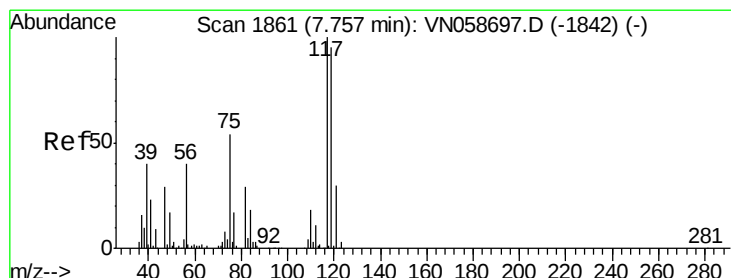
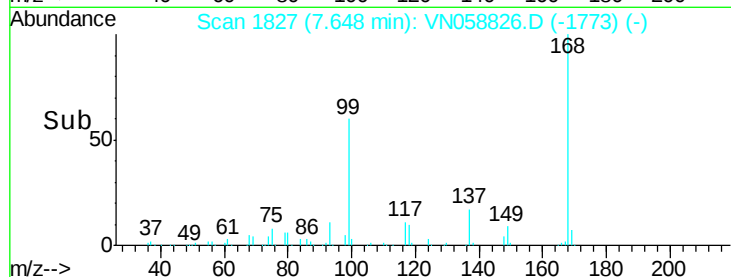
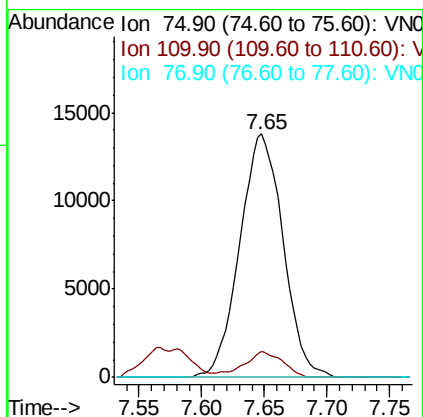
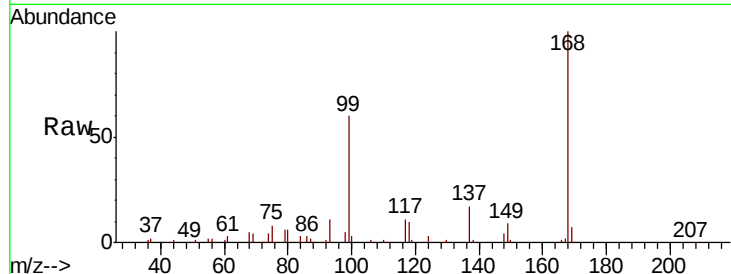




#36
 1,1-Dichloropropene
 Concen: 5.242 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058826.D
 Acq: 17 Oct 2019 14:46

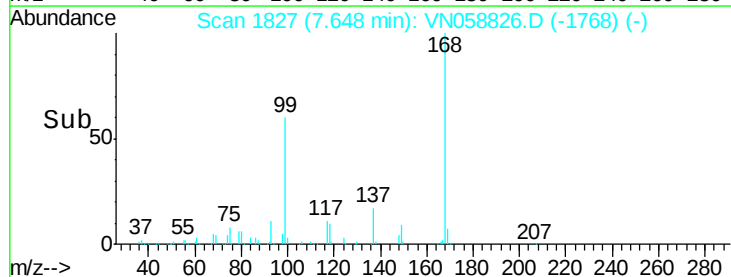
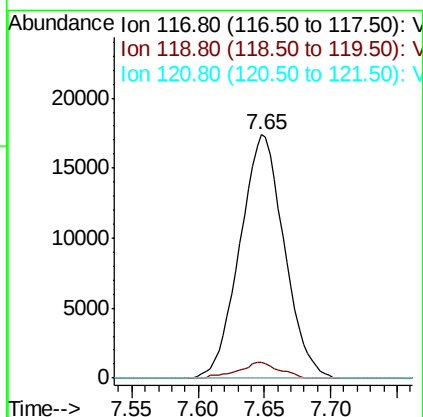
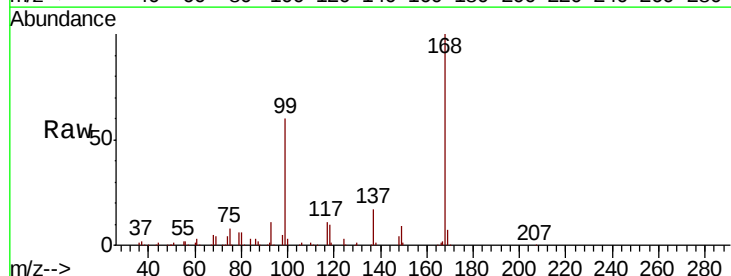
Instrument :
 MSVOA_N
 ClientSampleId :

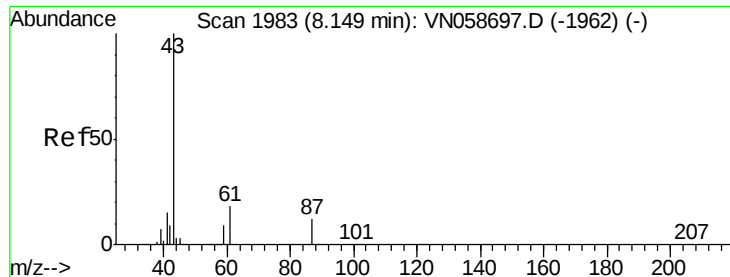
Tot Ion	75	Resp	33090
Ion Ratio	100	Lower	Upper
75	100		
110	9.6	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.579 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058826.D
 Acq: 17 Oct 2019 14:46

Tgt Ion	117	Resp	40475
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.7	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 9.684 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

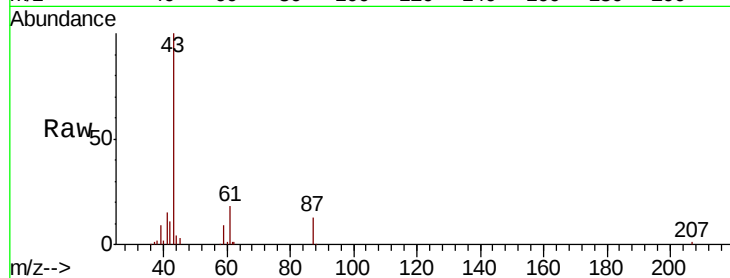
Instrument :

MSVOA_N

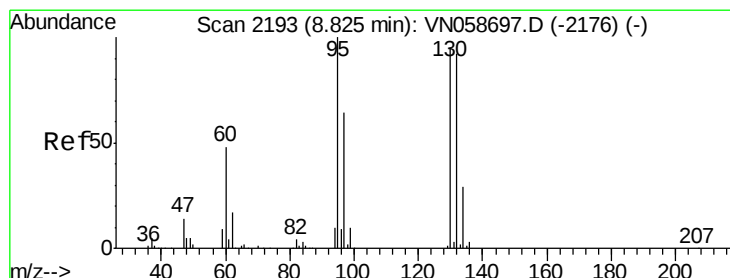
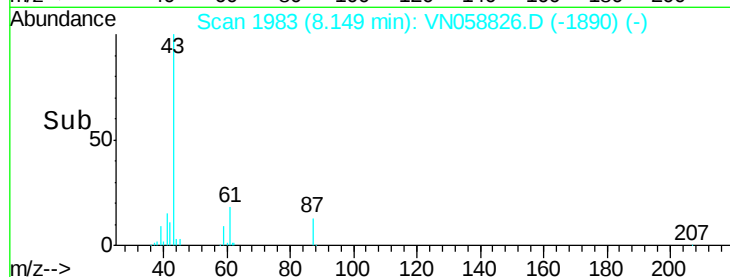
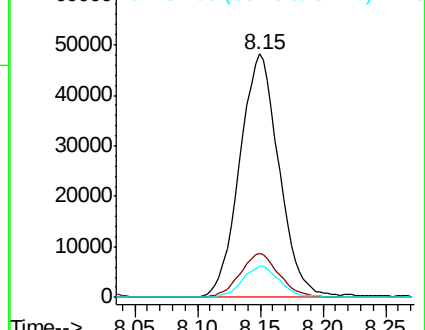
ClientSampled :

Tot Ion: 43 Resp: 105329

Ion	Ratio	Lower	Upper
43	100		
61	17.9	20.3	30.5#
87	12.0	9.8	14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058826.D (-1890) (-)



#44

Trichloroethene

Concen: 0.268 ug/l

RT: 8.81 min Scan# 2190

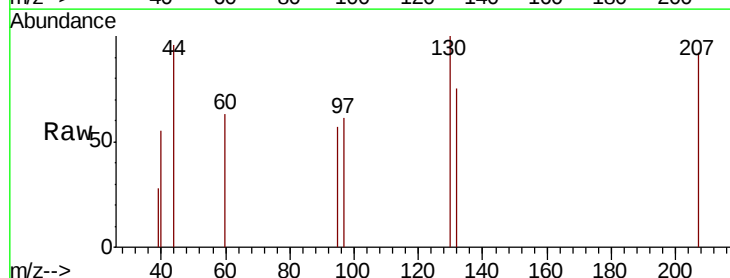
Delta R.T. -0.01 min

Lab File: VN058826.D

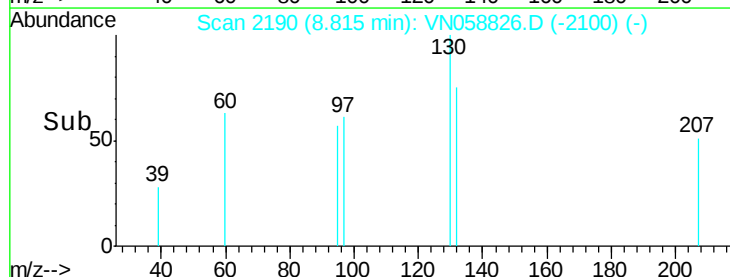
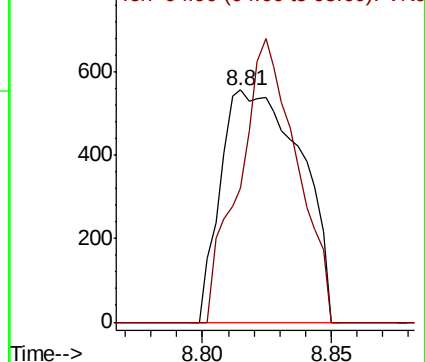
Acq: 17 Oct 2019 14:46

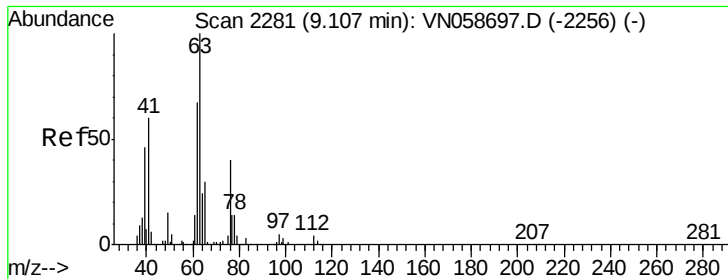
Tgt Ion: 130 Resp: 1205

Ion	Ratio	Lower	Upper
130	100		
95	57.5	0.0	211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058826.D (-2100) (-)





#45

1,2-Dichloropropane

Concen: 0.395 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

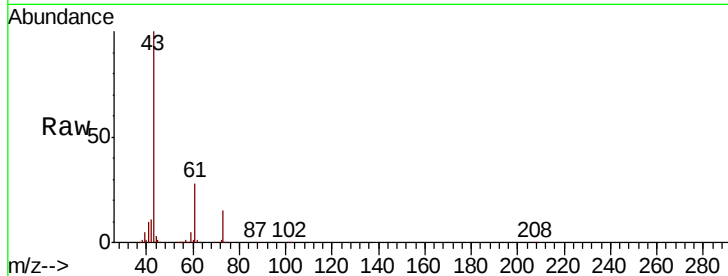
ClientSampleId :

Tot Ion: 63 Resp: 1919

Ion Ratio Lower Upper

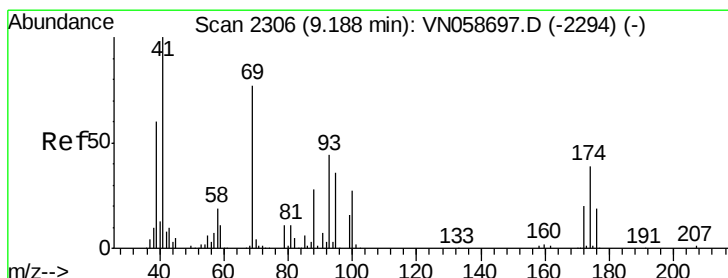
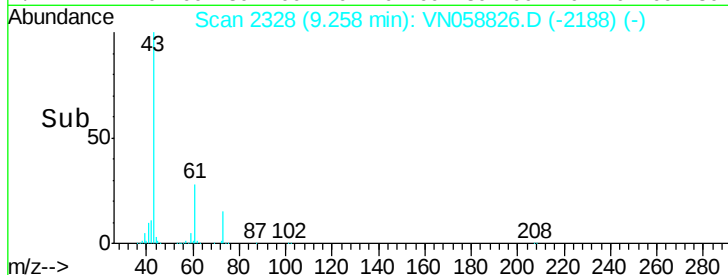
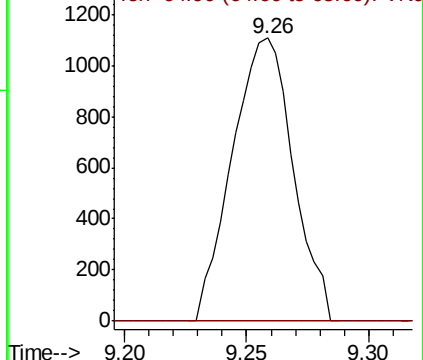
63 100

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: 1.286 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

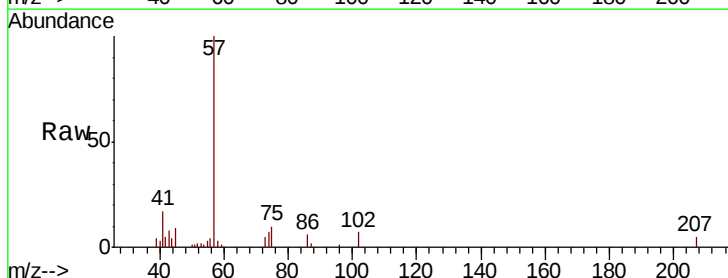
Tgt Ion: 41 Resp: 6339

Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.2#

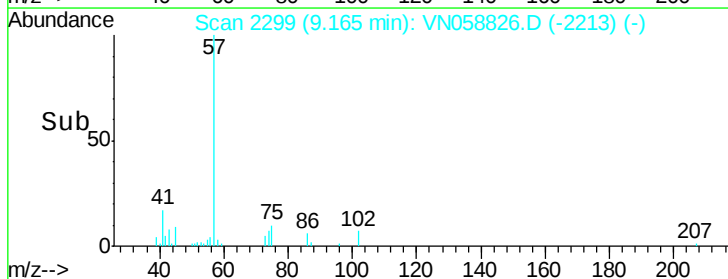
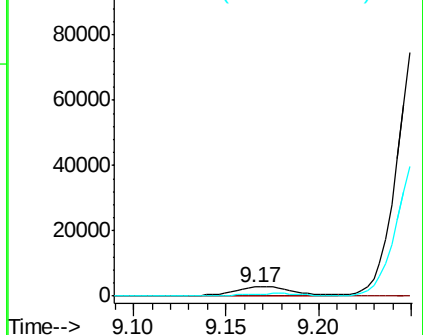
39 0.0 48.9 73.3#

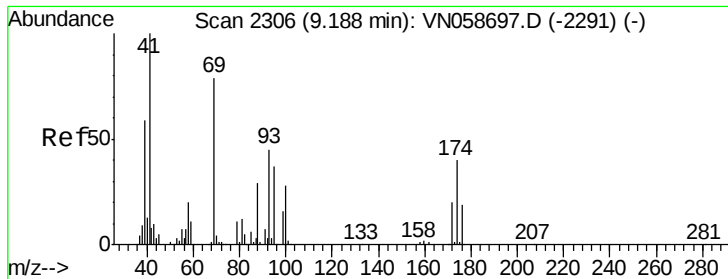


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 0.957 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

ClientSampleId :

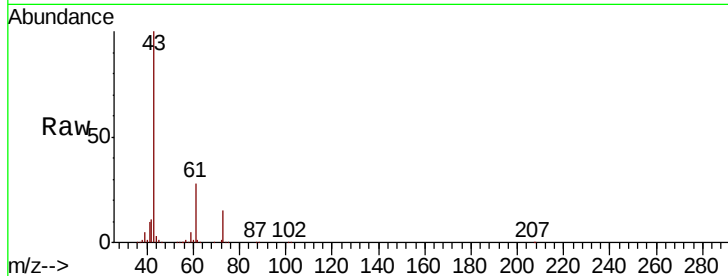
Tot Ion: 88 Resp: 73

Ion Ratio Lower Upper

88 100

43 2461183.6 28.6 43.0#

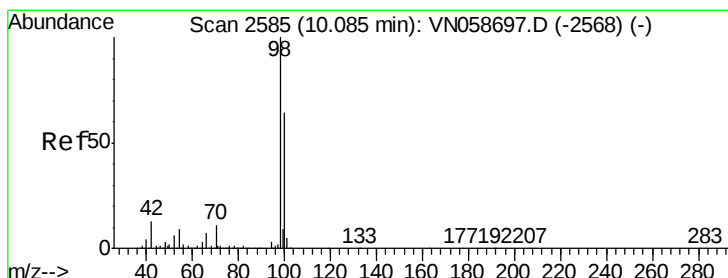
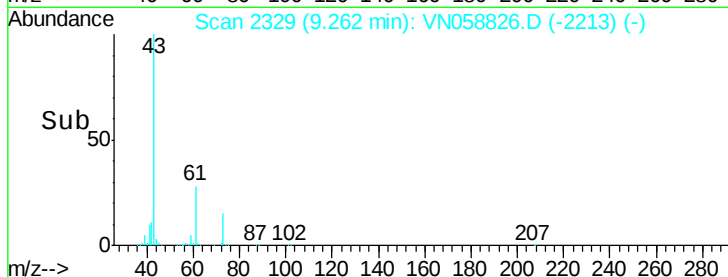
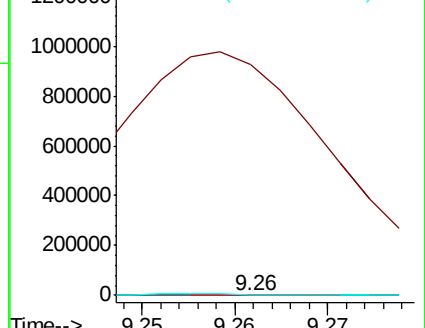
58 11765.8 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.161 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058826.D

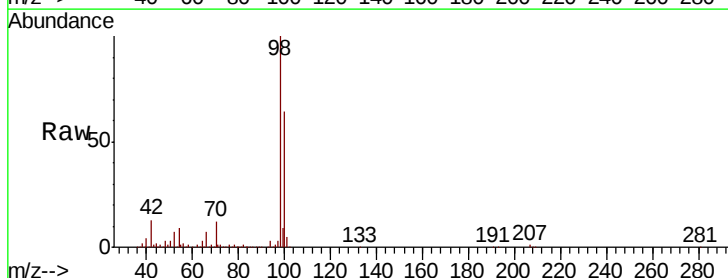
Acq: 17 Oct 2019 14:46

Tgt Ion: 98 Resp: 804436

Ion Ratio Lower Upper

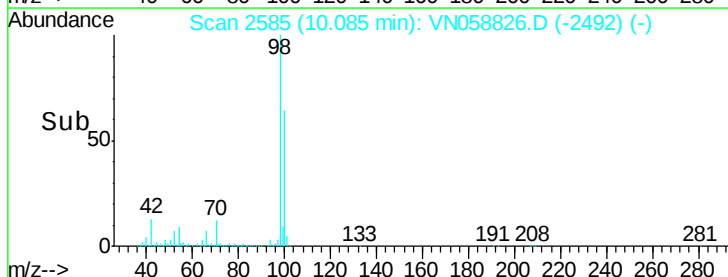
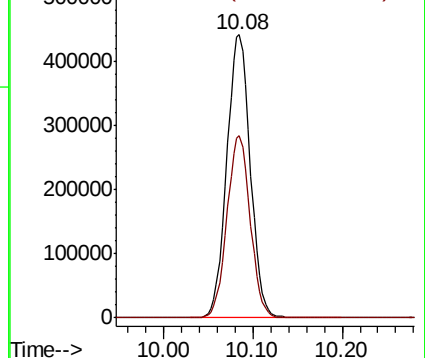
98 100

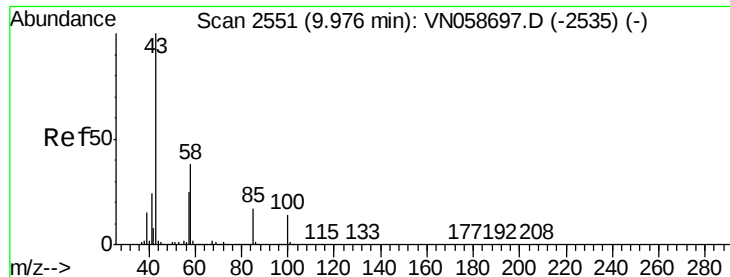
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.232 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

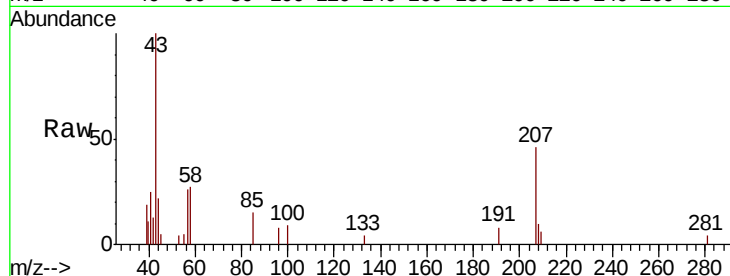
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 7526

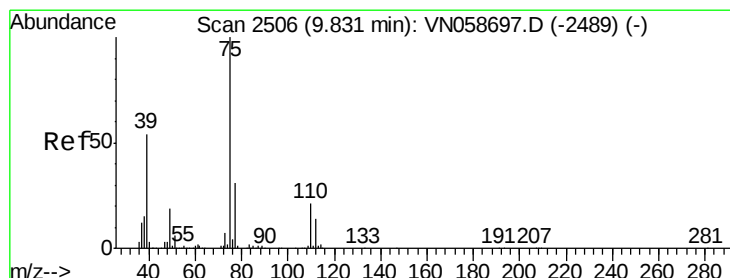
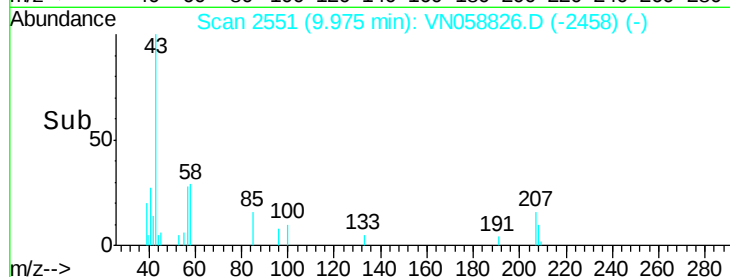
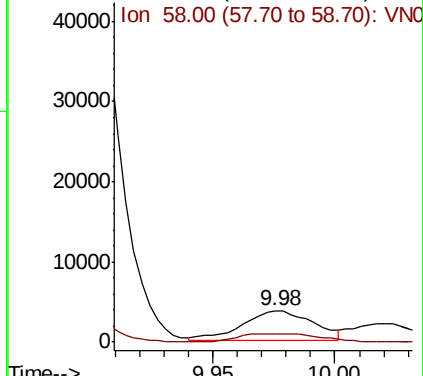
Ion Ratio Lower Upper

43 100

58 31.8 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN058826.D (-2458) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.201 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

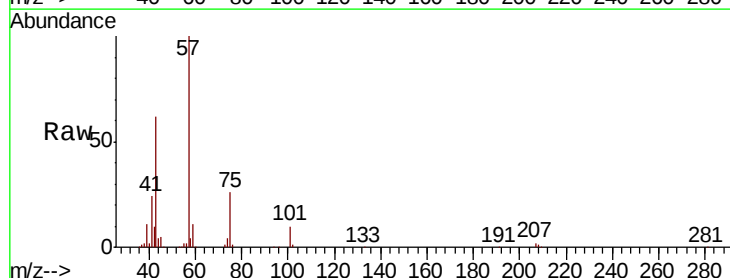
Tgt Ion: 75 Resp: 39686

Ion Ratio Lower Upper

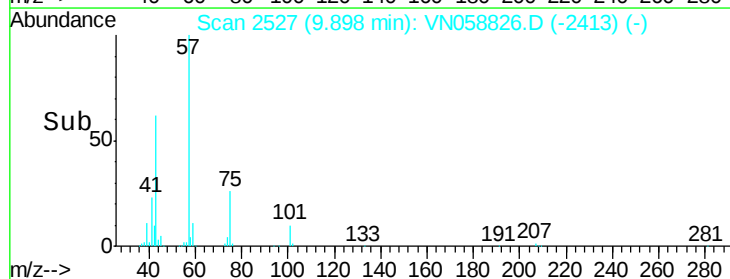
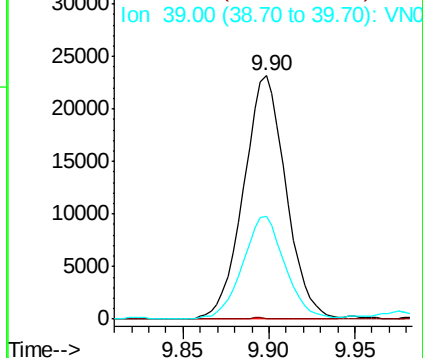
75 100

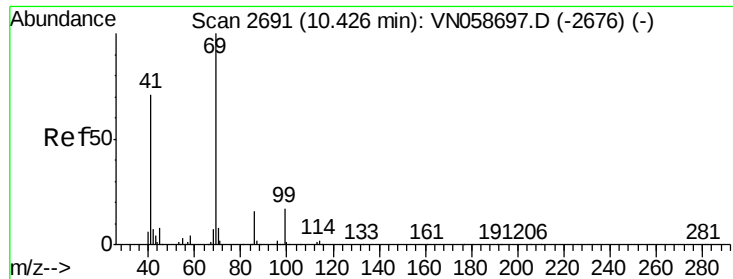
77 0.0 24.4 36.6#

39 42.1 43.1 64.7#



Abundance Ion 74.90 (74.60 to 75.60): VN058826.D (-2413) (-)





#56

Ethyl methacrylate

Concen: 0.335 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

ClientSampleId :

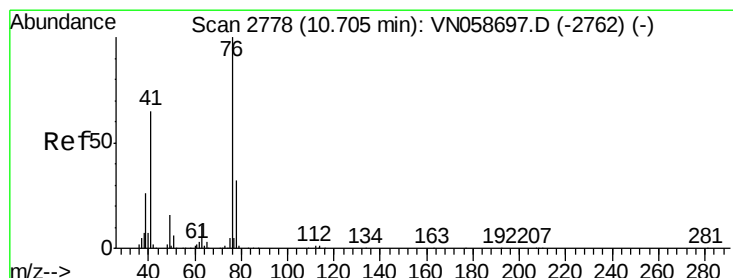
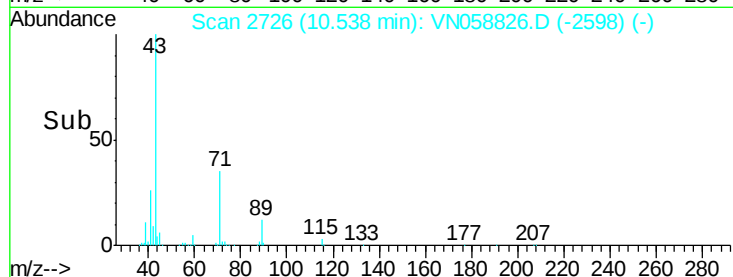
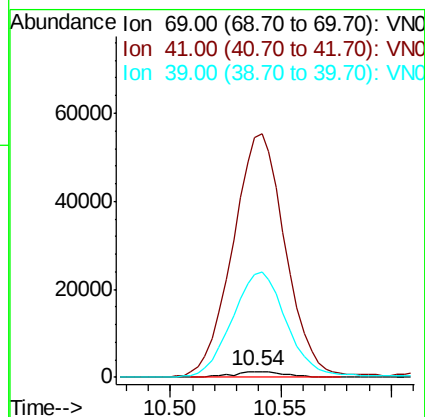
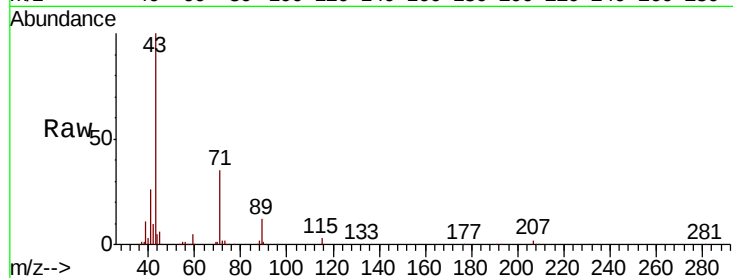
Tot Ion: 69 Resp: 2224

Ion Ratio Lower Upper

69 100

41 4112.2 56.8 85.2#

39 1849.6 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.906 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058826.D

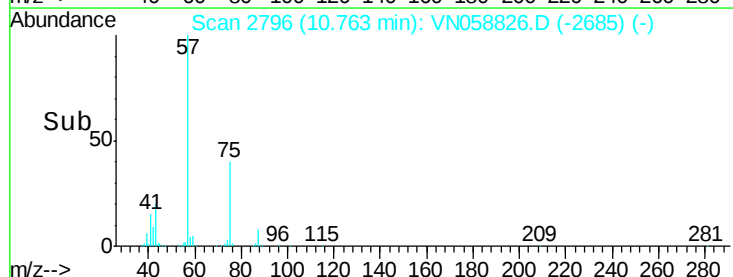
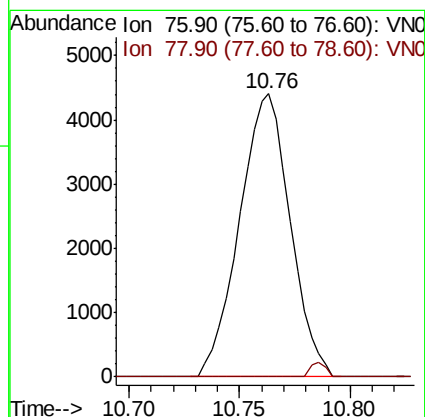
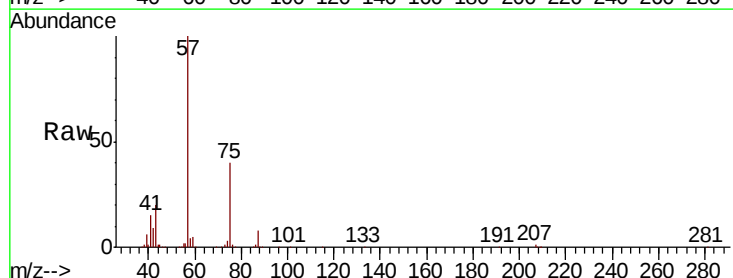
Acq: 17 Oct 2019 14:46

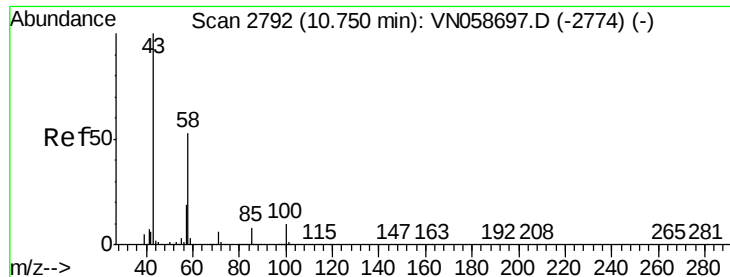
Tgt Ion: 76 Resp: 7009

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

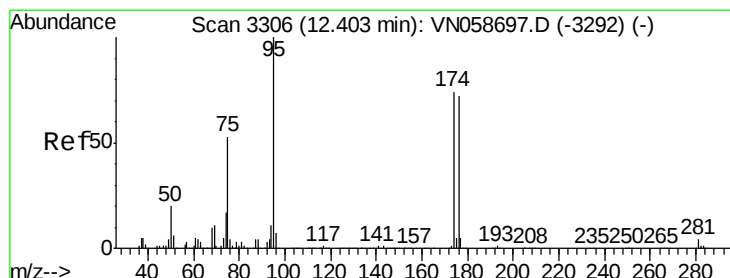
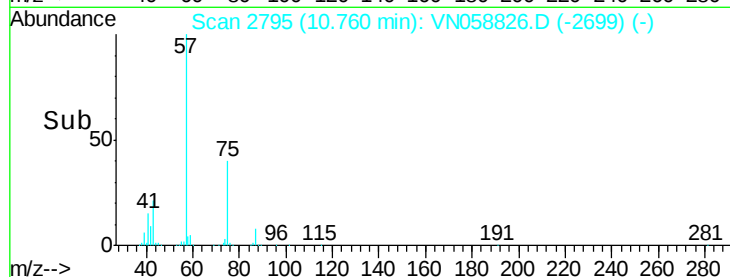
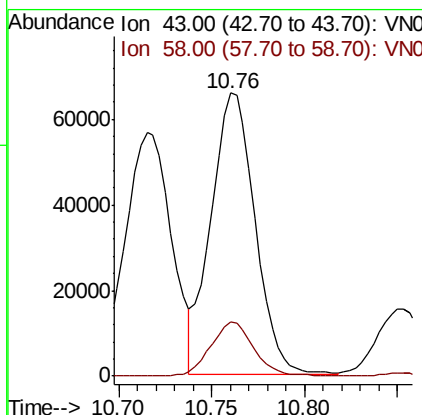
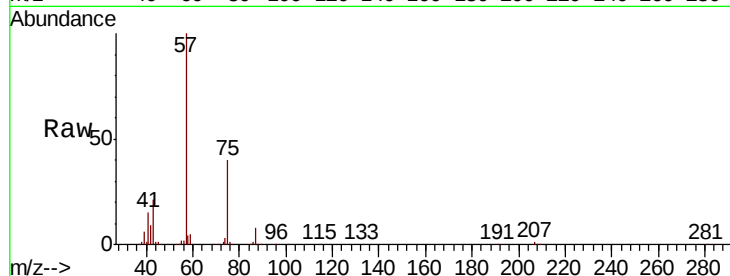




#59
2-Hexanone
Concen: 23.064 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

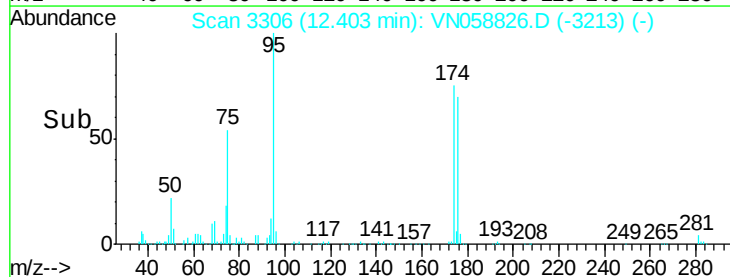
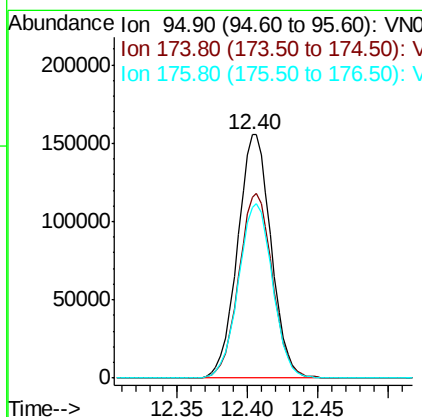
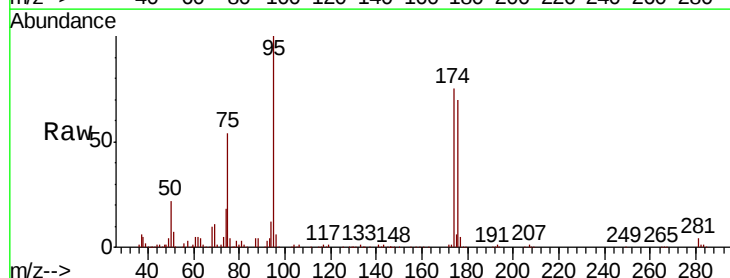
Instrument :
MSVOA_N
ClientSampleId :

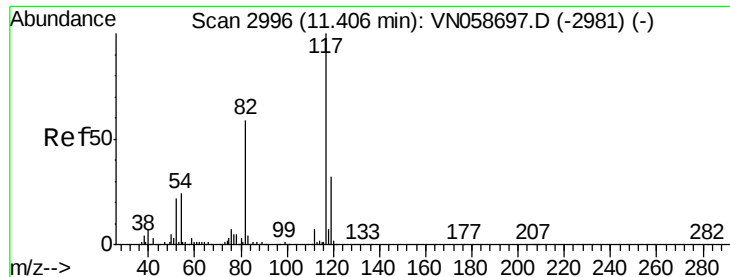
Tot Ion: 43 Resp: 108874
Ion Ratio Lower Upper
43 100
58 18.9 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 44.422 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

Tgt Ion: 95 Resp: 259325
Ion Ratio Lower Upper
95 100
174 76.3 0.0 150.4
176 72.9 0.0 146.8

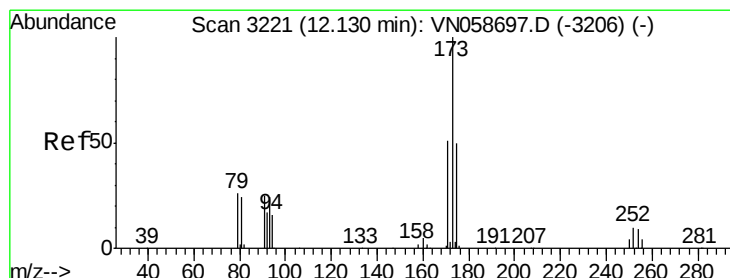
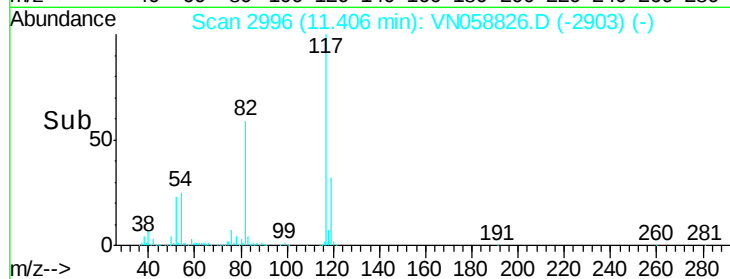
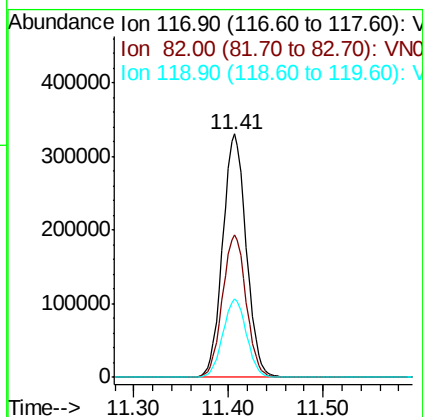
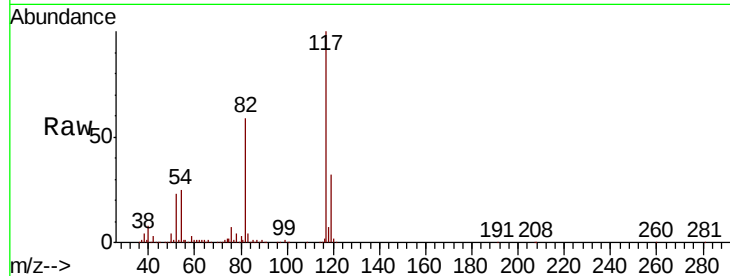




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

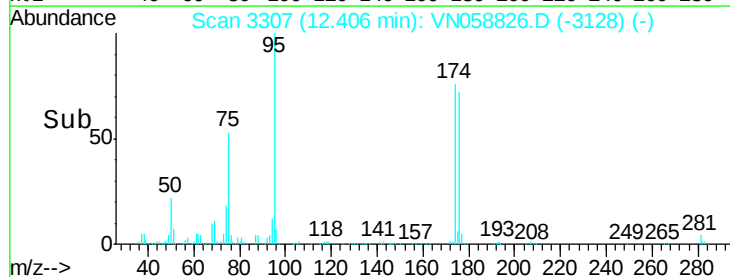
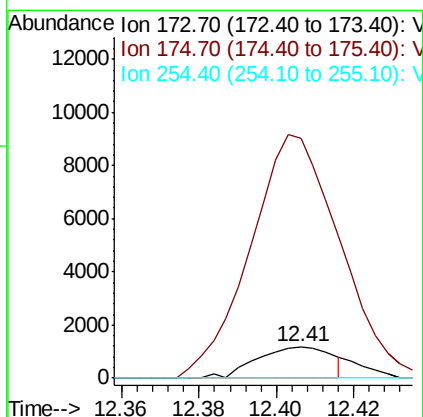
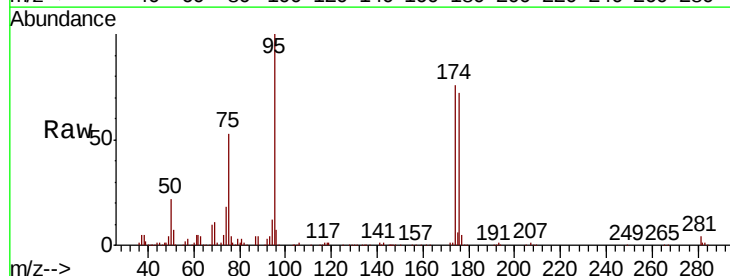
Instrument :
MSVOA_N
ClientSampleId :

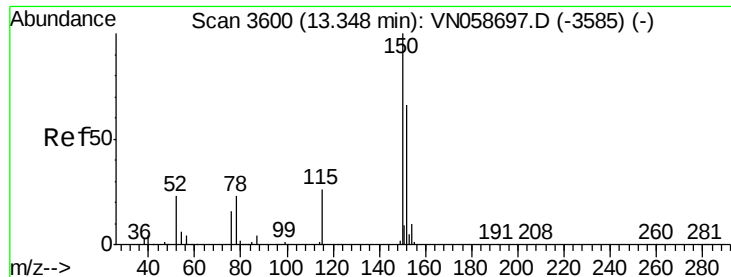
Tot Ion:117 Resp: 572037
Ion Ratio Lower Upper
117 100
82 58.6 47.0 70.4
119 32.2 25.4 38.2



#71
Bromoform
Concen: 0.504 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058826.D
Acq: 17 Oct 2019 14:46

Tgt Ion:173 Resp: 1586
Ion Ratio Lower Upper
173 100
175 809.5 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

ClientSampleId :

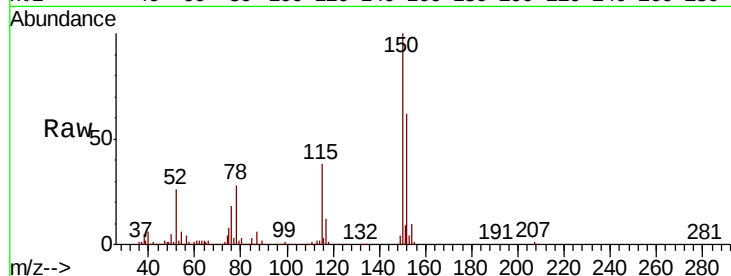
Tot Ion:152 Resp: 218481

Ion Ratio Lower Upper

152 100

115 61.0 30.4 91.2

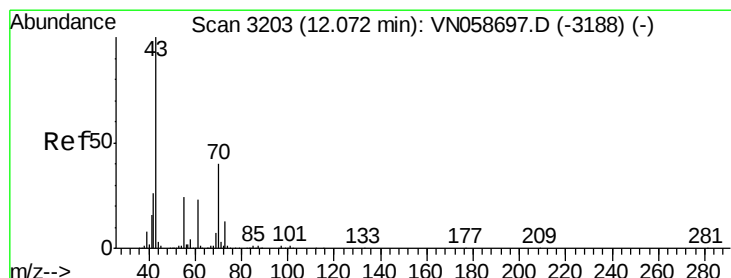
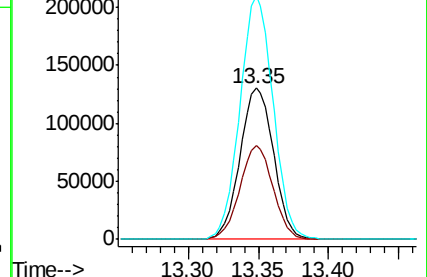
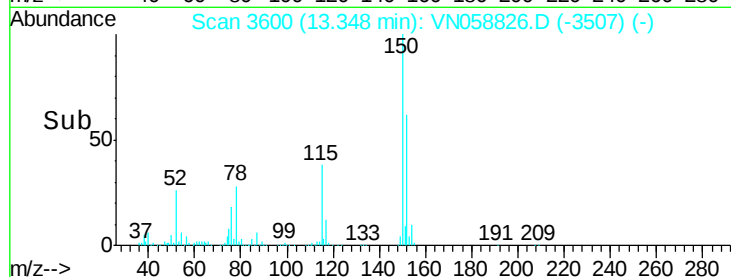
150 158.6 0.0 345.4



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



#74

N-ethyl acetate

Concen: 0.578 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Tgt Ion: 43 Resp: 4110

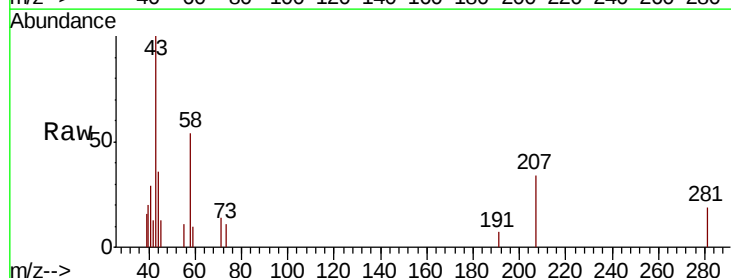
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 7.0 19.6 29.4#

61 0.0 18.6 28.0#

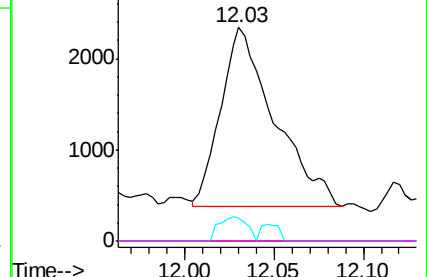
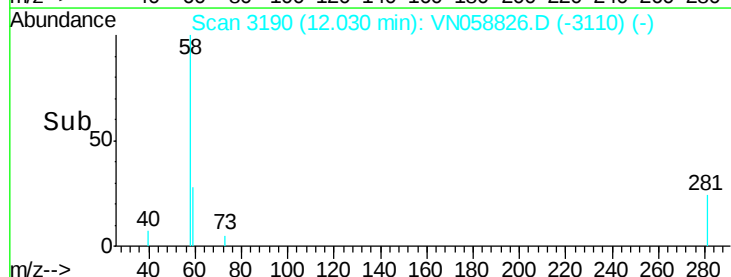


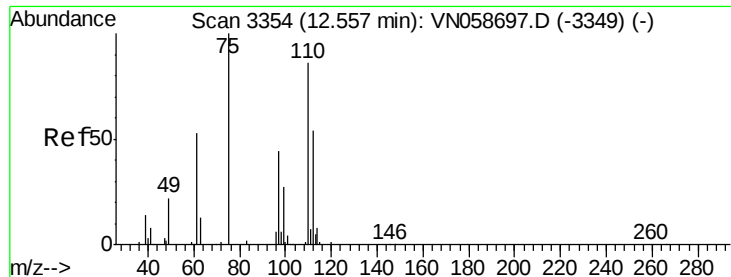
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.943 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

Instrument :

MSVOA_N

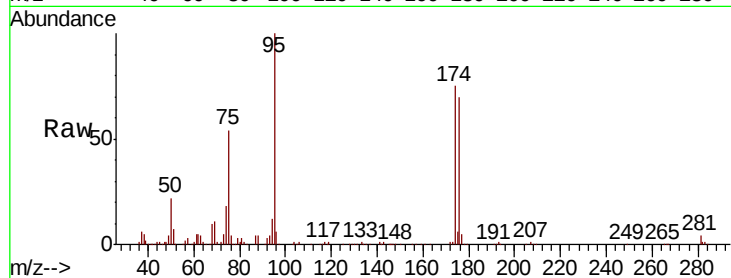
ClientSampled :

Tot Ion: 75 Resp: 138723

Ion Ratio Lower Upper

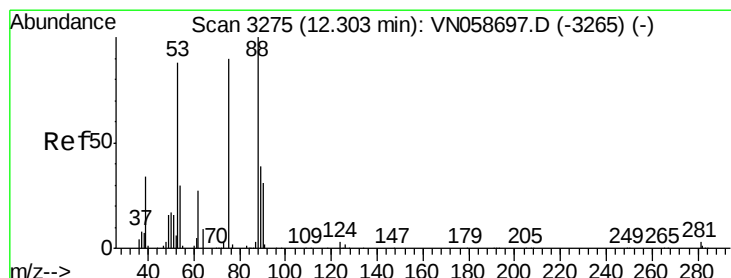
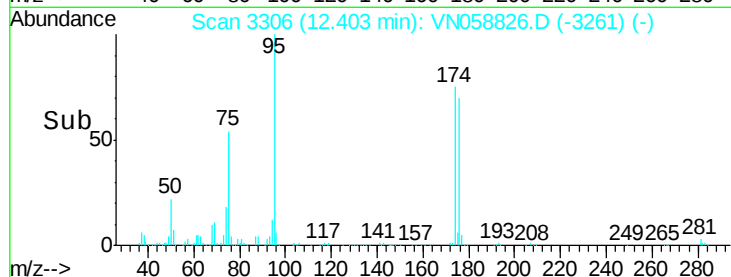
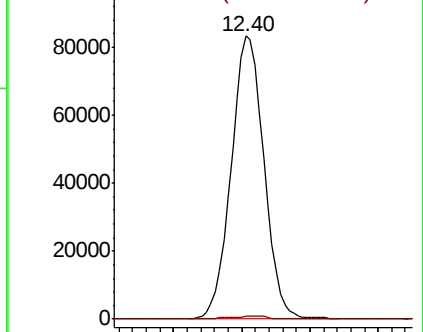
75 100

77 1.2 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: 77.530 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058826.D

Acq: 17 Oct 2019 14:46

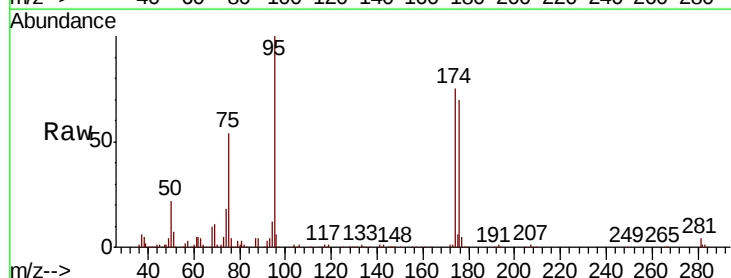
Tgt Ion: 75 Resp: 138723

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

