

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058825.D
 Acq On : 17 Oct 2019 14:24
 Operator : JC/SP
 Sample : K5393-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:27:39 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	373737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	597227	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	547099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	211035	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	275614	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
35) Dibromofluoromethane	7.57	113	195650	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	
50) Toluene-d8	10.09	98	757149	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
62) 4-Bromofluorobenzene	12.40	95	246234	44.10	ug/l	0.00
Spiked Amount			Recovery	=	88.20%	

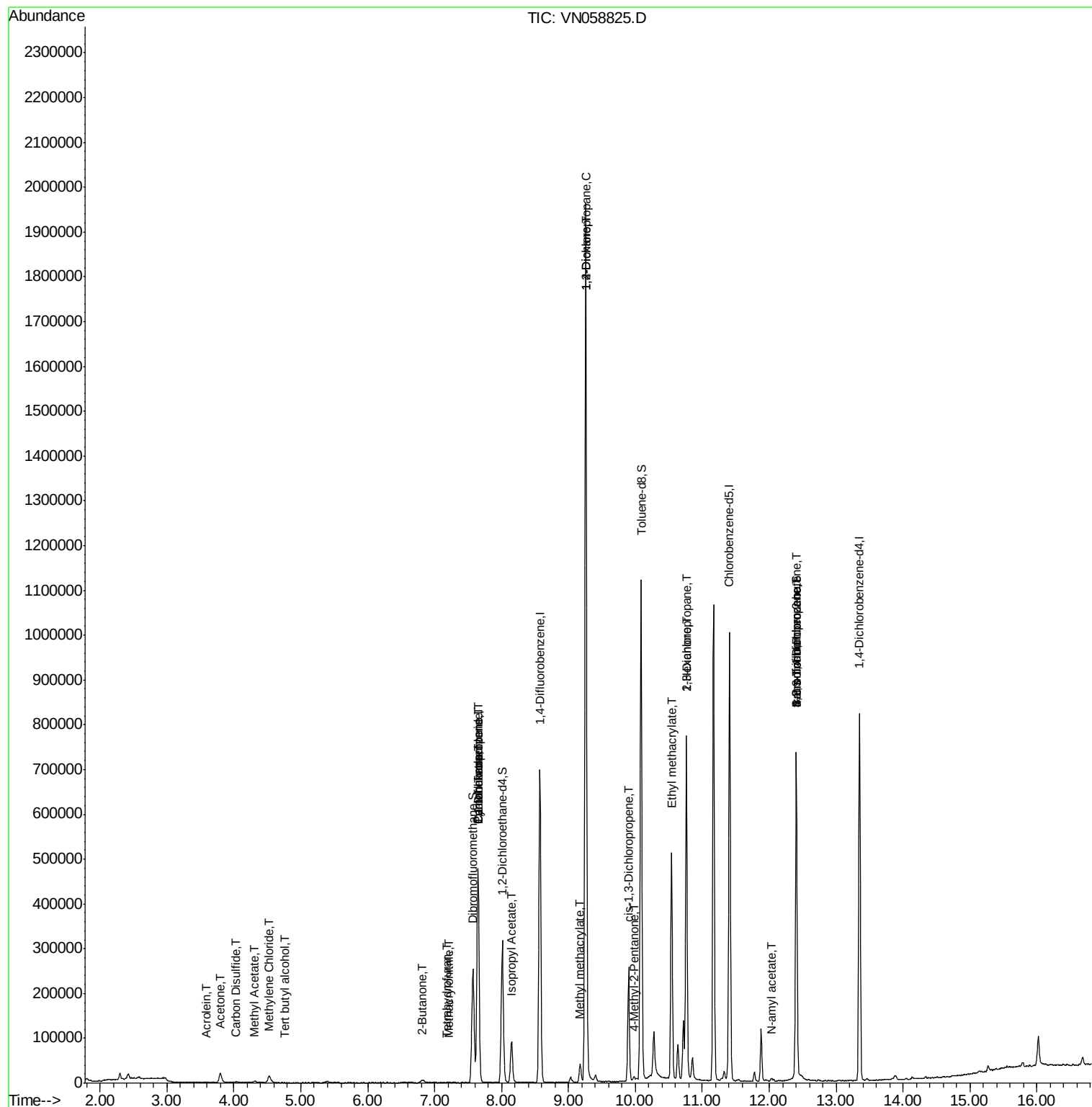
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	214	0.253	ug/l #	72
13) Acrolein	3.60	56	331	0.486	ug/l	96
16) Acetone	3.80	43	36289	16.753	ug/l	97
17) Carbon Disulfide	4.03	76	2435	0.212	ug/l #	75
18) Methyl Acetate	4.31	43	6415	1.168	ug/l #	85
20) Methylene Chloride	4.53	84	11263	2.488	ug/l	99
25) 2-Butanone	6.83	43	8016	2.560	ug/l	93
29) Tetrahydrofuran	7.19	42	612	0.302	ug/l #	61
31) Cyclohexane	7.65	56	8898	1.159	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	31890	5.281	ug/l #	51
38) Carbon Tetrachloride	7.65	117	36521	6.206	ug/l #	17
41) Methacrylonitrile	7.20	41	572	0.200	ug/l #	1
43) Isopropyl Acetate	8.15	43	110156	10.589	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	2368	0.510	ug/l #	45
48) Methyl methacrylate	9.17	41	6713	1.424	ug/l #	14
49) 1,4-Dioxane	9.26	88	231	3.166	ug/l #	1
51) 4-Methyl-2-Pentanone	9.97	43	7042	1.205	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	42200	5.782	ug/l #	68
56) Ethyl methacrylate	10.54	69	1980	0.312	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7587	1.026	ug/l #	42
59) 2-Hexanone	10.76	43	118295	26.199	ug/l #	52
71) Bromoform	12.41	173	1089	0.362	ug/l #	1
74) N-amyl acetate	12.03	43	3550	0.517	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	131533	28.411	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131533	76.105	ug/l #	11

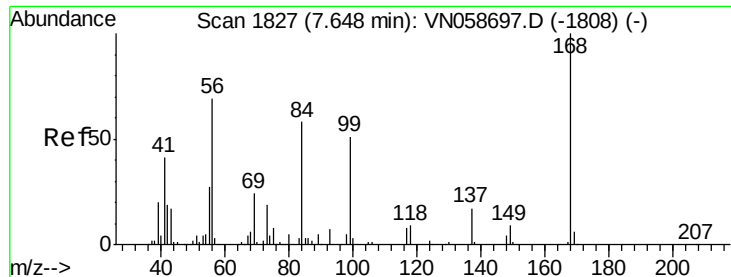
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

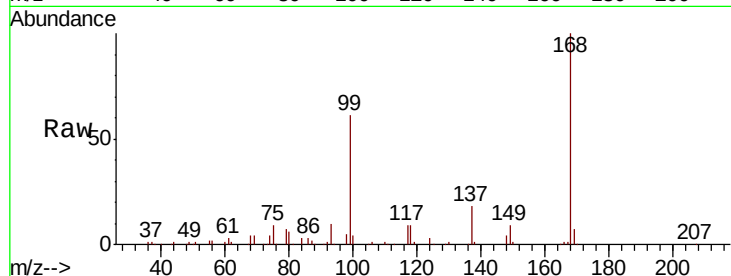
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 373737

Ion Ratio Lower Upper

168 100

99 60.9 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

150000

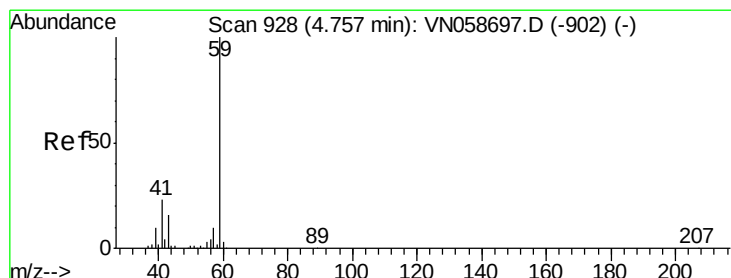
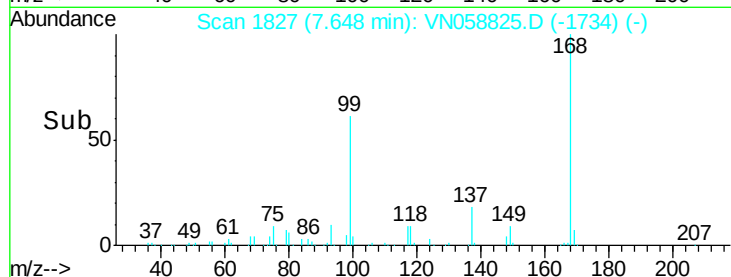
100000

50000

0

Time-->

7.60 7.70



#11

Tert butyl alcohol

Concen: 0.253 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.00 min

Lab File: VN058825.D

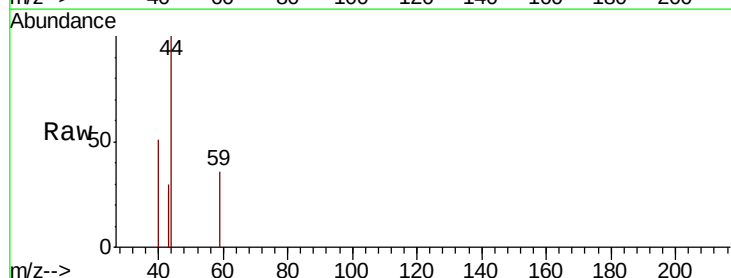
Acq: 17 Oct 2019 14:24

Tgt Ion: 59 Resp: 214

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

250

200

150

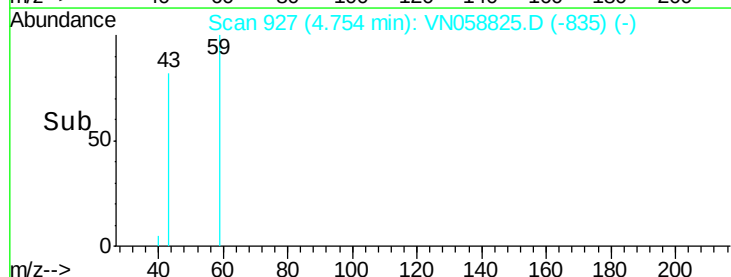
100

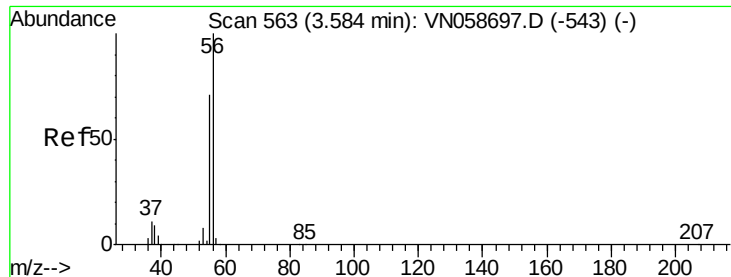
50

0

Time-->

4.74 4.75 4.76 4.77





#13

Acrolein

Concen: 0.486 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

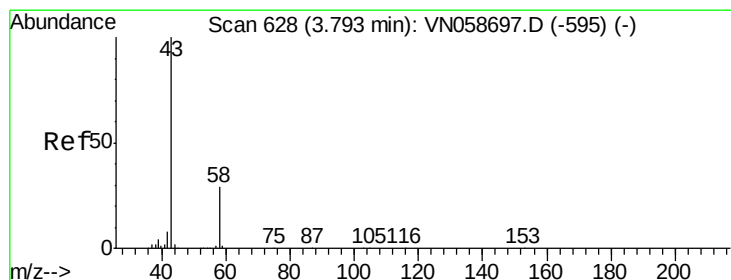
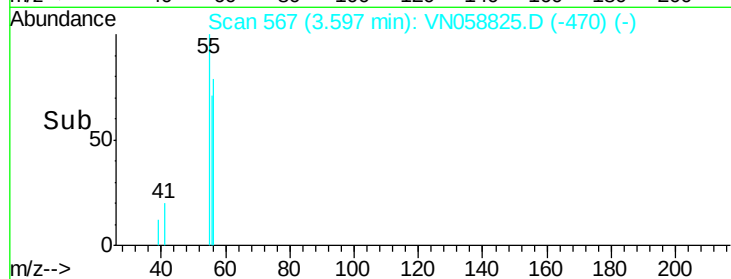
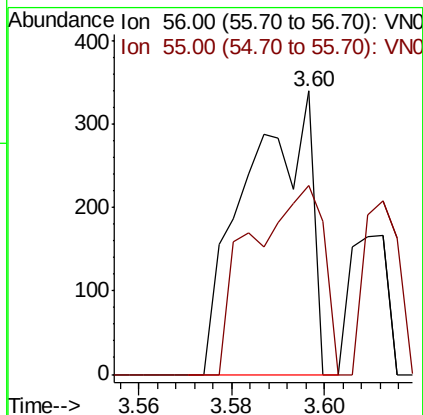
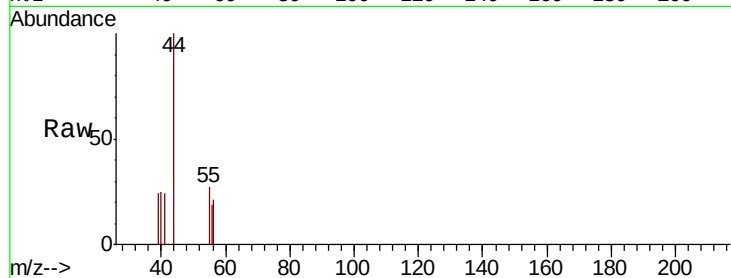
ClientSampleId :

Tot Ion: 56 Resp: 331

Ion Ratio Lower Upper

56 100

55 74.3 56.7 85.1



#16

Acetone

Concen: 16.753 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058825.D

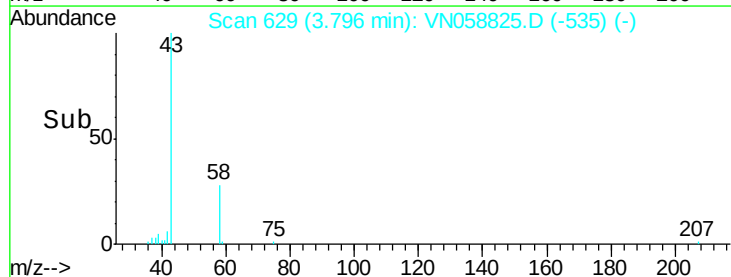
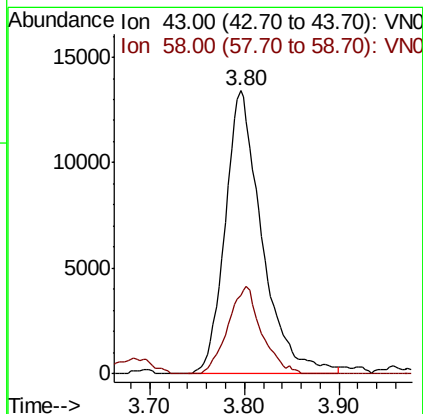
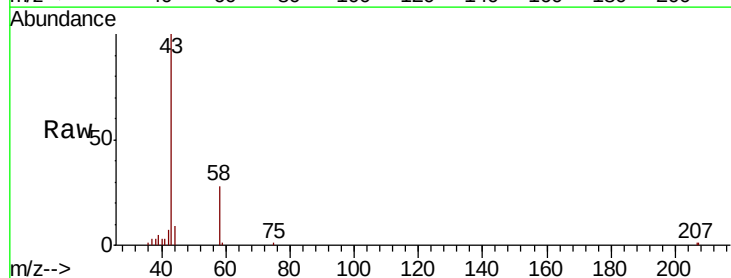
Acq: 17 Oct 2019 14:24

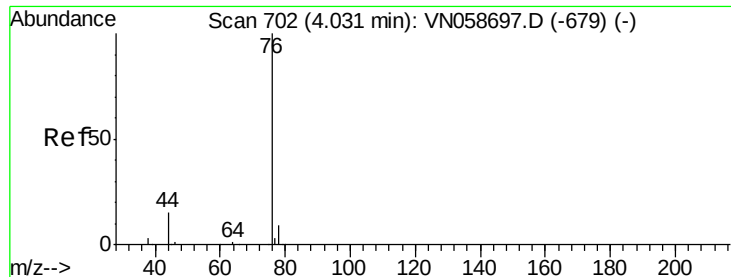
Tgt Ion: 43 Resp: 36289

Ion Ratio Lower Upper

43 100

58 27.7 23.3 34.9

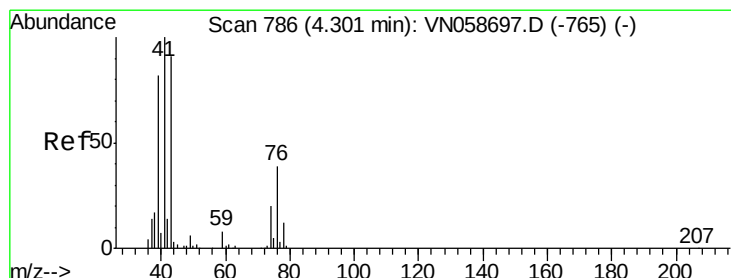
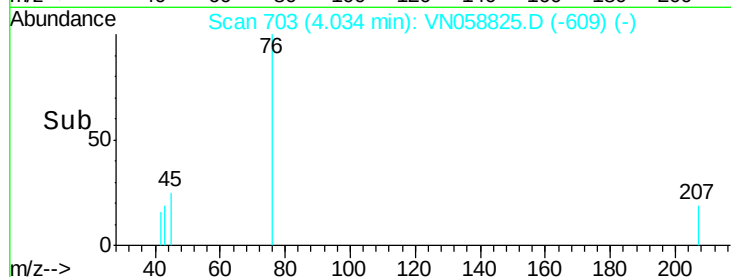
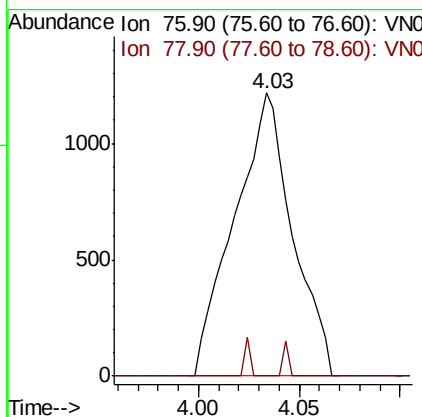
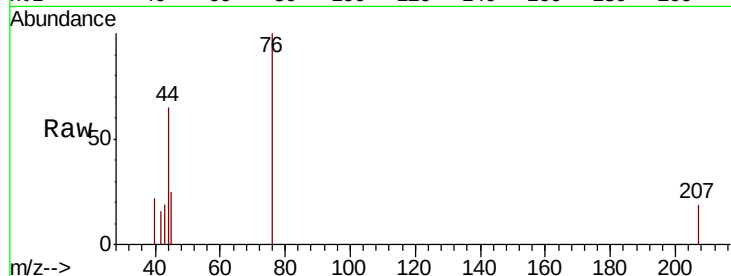




#17
Carbon Disulfide
Concen: 0.212 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

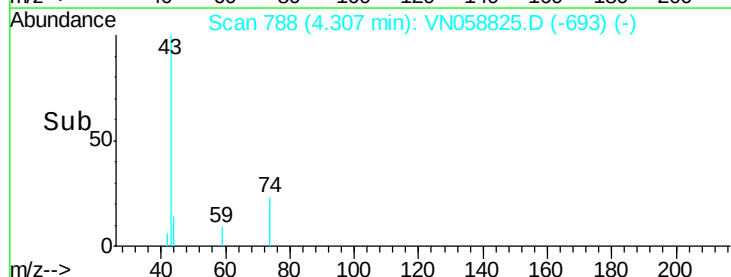
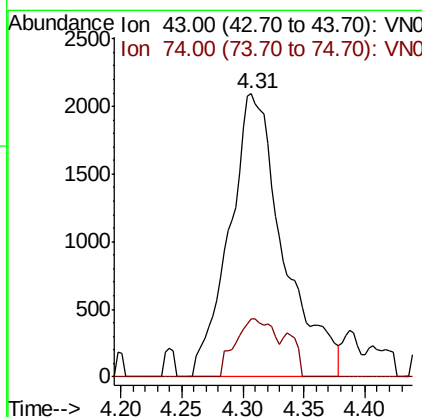
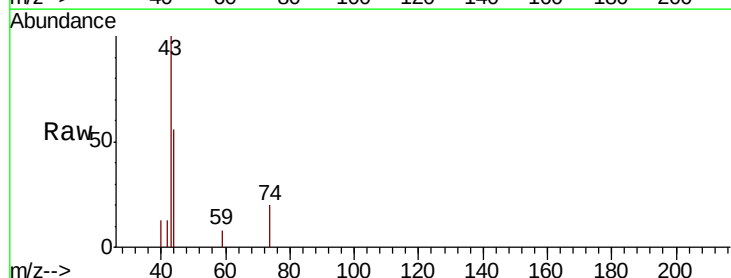
Instrument :
MSVOA_N
ClientSampled :

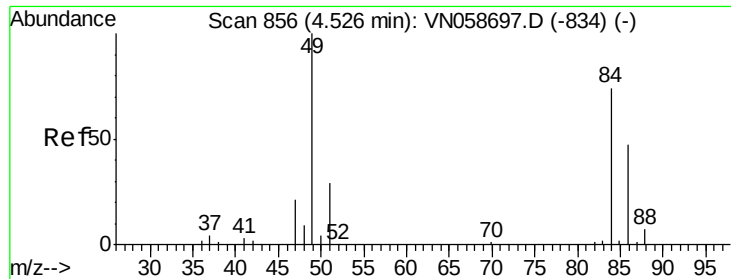
Tot Ion: 76 Resp: 2435
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.168 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

Tgt Ion: 43 Resp: 6415
Ion Ratio Lower Upper
43 100
74 14.5 17.2 25.8#

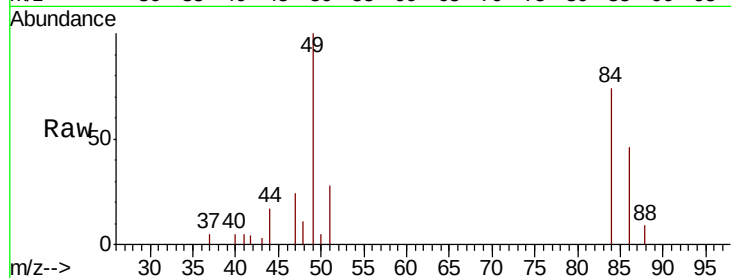




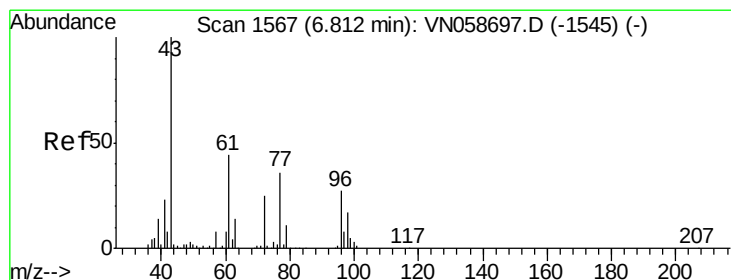
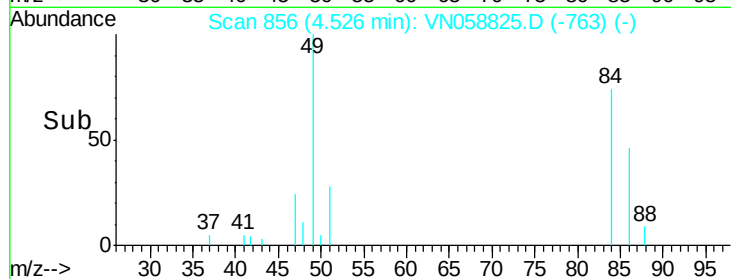
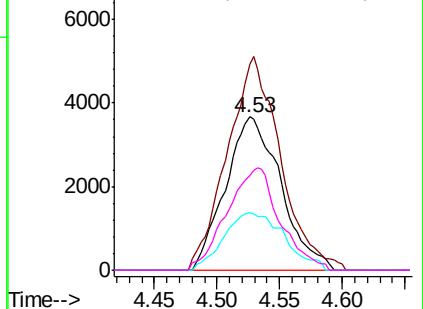
#20
Methvlene Chloride
Concen: 2.488 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 11263
Ion Ratio Lower Upper
84 100
49 135.0 107.6 161.4
51 37.5 31.4 47.0
86 62.3 50.3 75.5

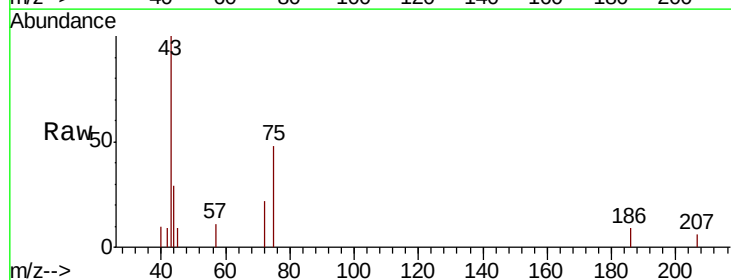


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

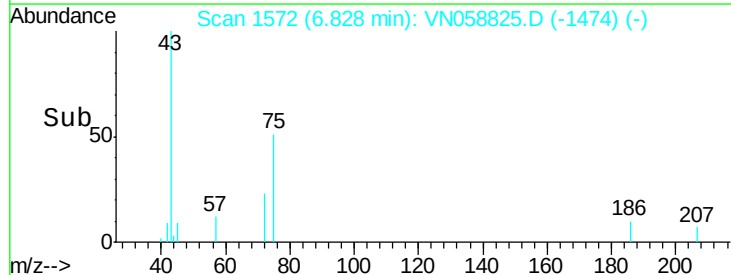
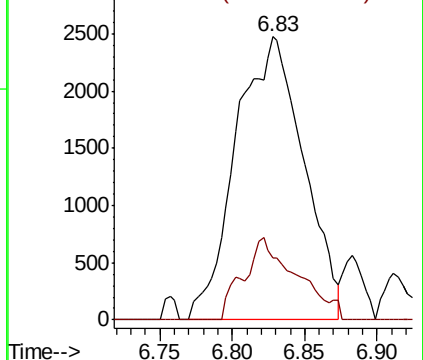


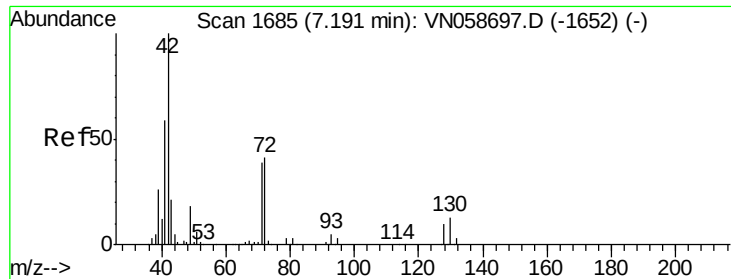
#25
2-Butanone
Concen: 2.560 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.02 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

Tgt Ion: 43 Resp: 8016
Ion Ratio Lower Upper
43 100
72 21.8 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

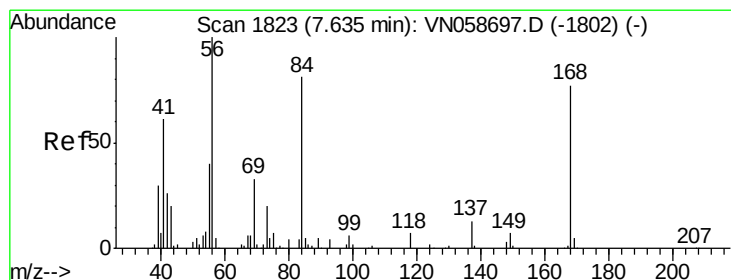
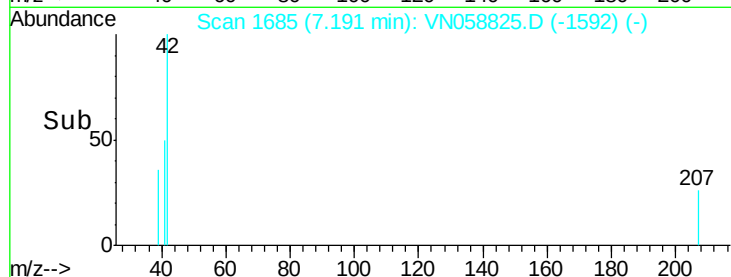
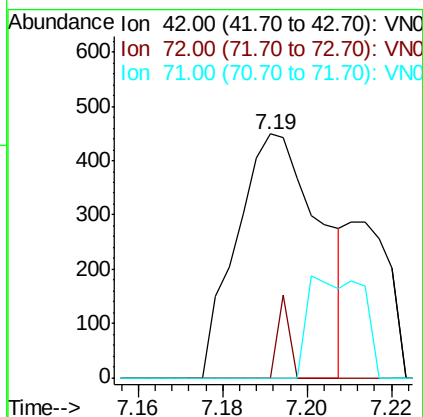
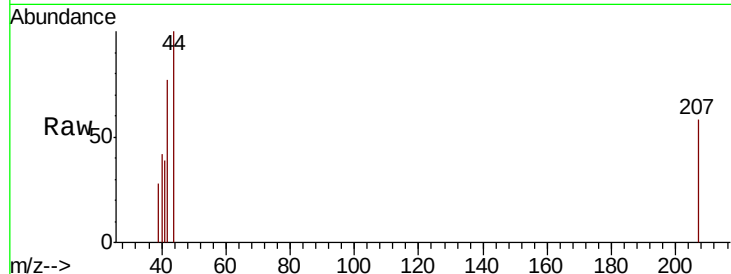




#29
Tetrahydrofuran
Concen: 0.302 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

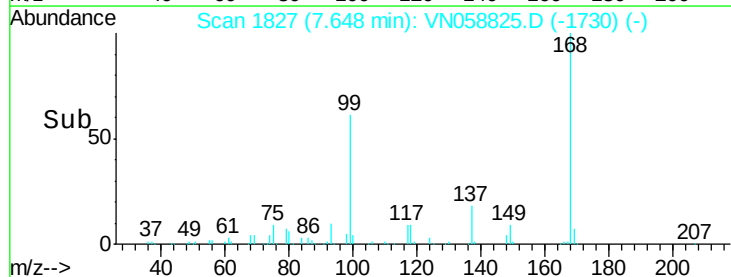
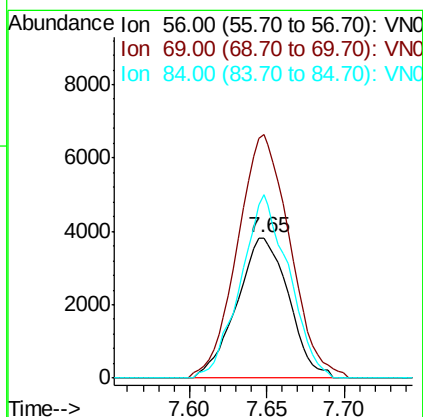
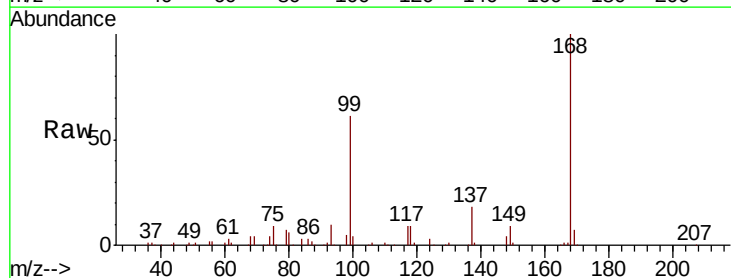
Instrument :
MSVOA_N
ClientSampleId :

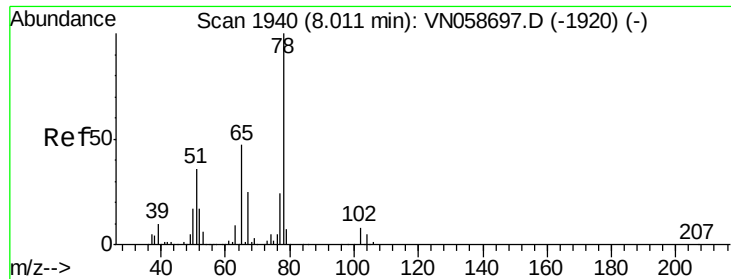
Tot Ion: 42 Resp: 612
Ion Ratio Lower Upper
42 100
72 4.7 32.8 49.2#
71 27.6 31.1 46.7#



#31
Cyclohexane
Concen: 1.159 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

Tgt Ion: 56 Resp: 8898
Ion Ratio Lower Upper
56 100
69 173.6 26.2 39.4#
84 130.7 64.9 97.3#

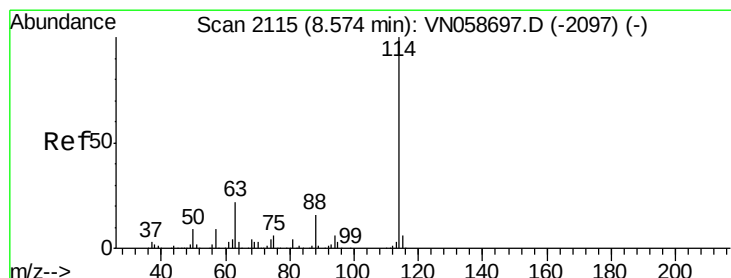
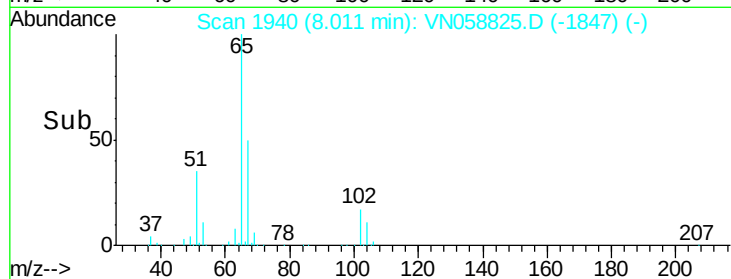
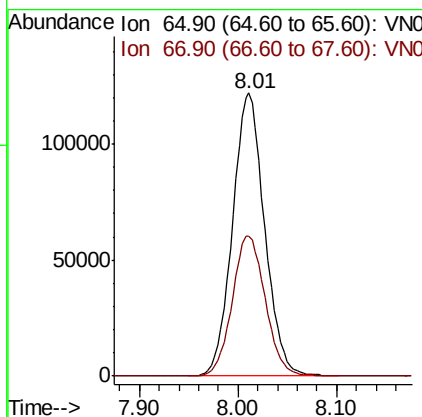
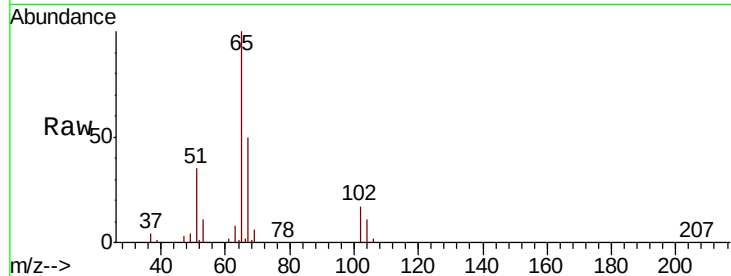




#33
 1,2-Dichloroethane-d4
 Concen: 52.676 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058825.D
 Acq: 17 Oct 2019 14:24

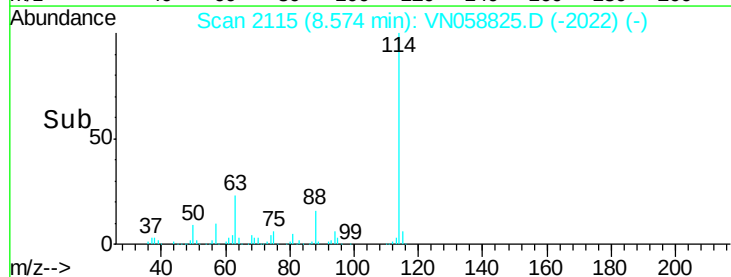
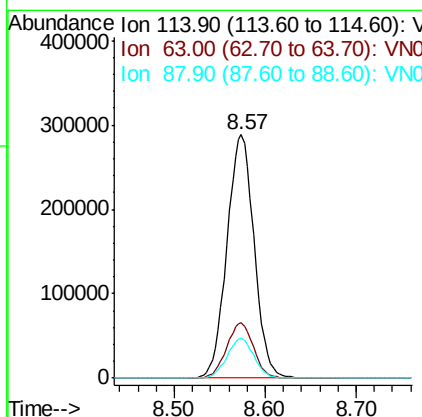
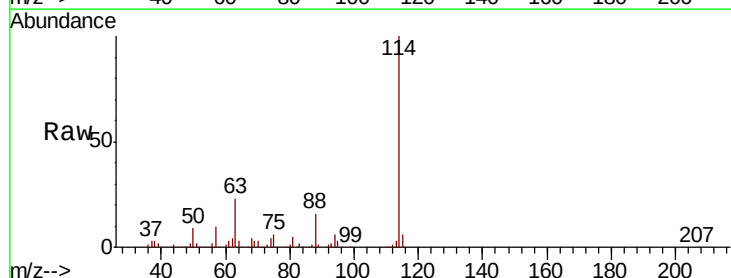
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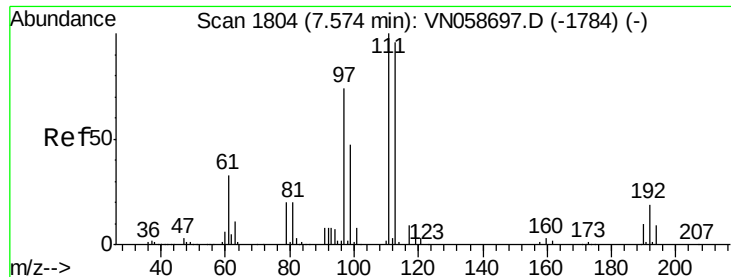
Tot Ion: 65 Resp: 275614
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058825.D
 Acq: 17 Oct 2019 14:24

Tgt Ion: 114 Resp: 597227
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.8
 88 16.3 0.0 32.0

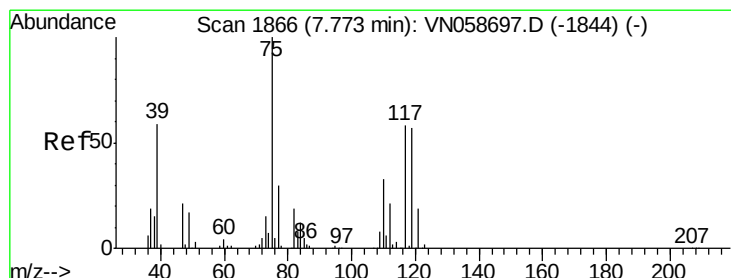
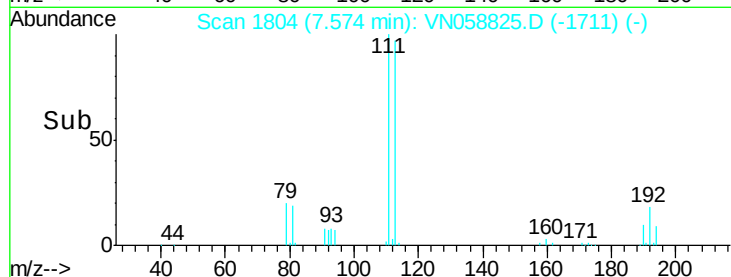
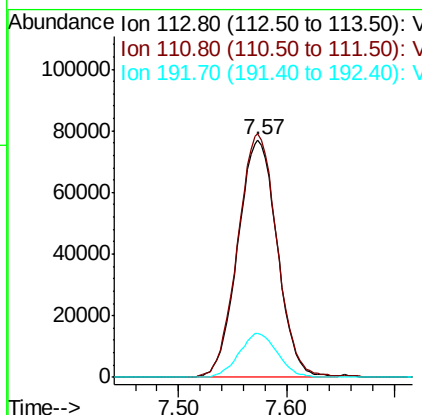
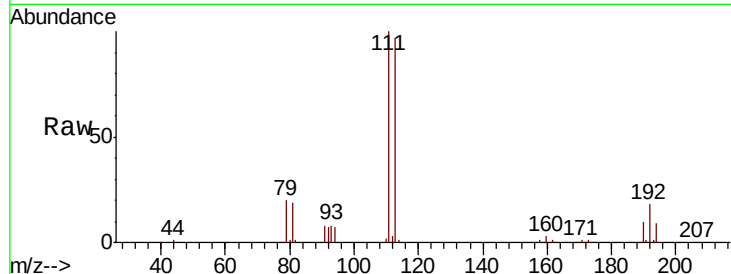




#35
Dibromofluoromethane
Concen: 53.037 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

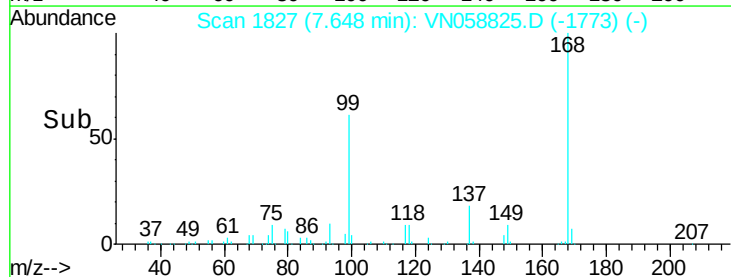
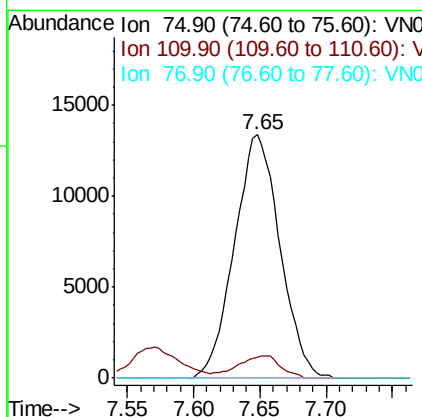
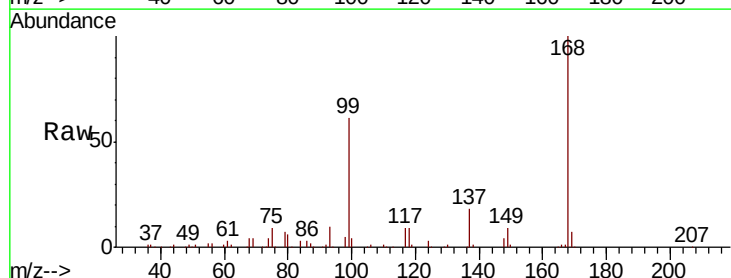
Instrument :
MSVOA_N
ClientSampleId :

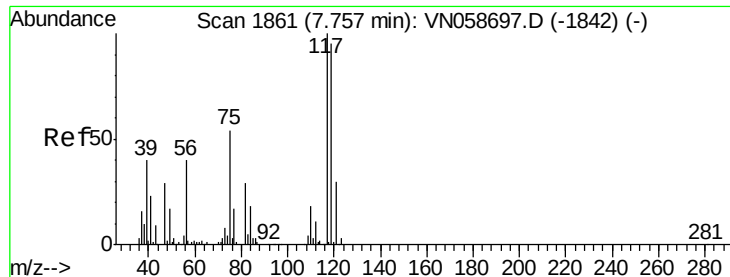
Tot Ion:113 Resp: 195650
Ion Ratio Lower Upper
113 100
111 102.9 82.3 123.5
192 18.0 15.0 22.6



#36
1,1-Dichloropropene
Concen: 5.281 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

Tgt Ion: 75 Resp: 31890
Ion Ratio Lower Upper
75 100
110 8.7 16.6 49.8#
77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.206 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

ClientSampleId :

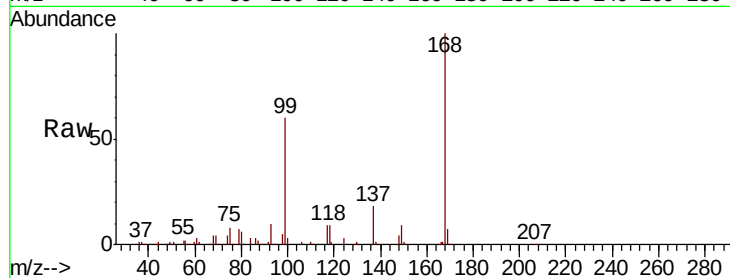
Tot Ion:117 Resp: 36521

Ion Ratio Lower Upper

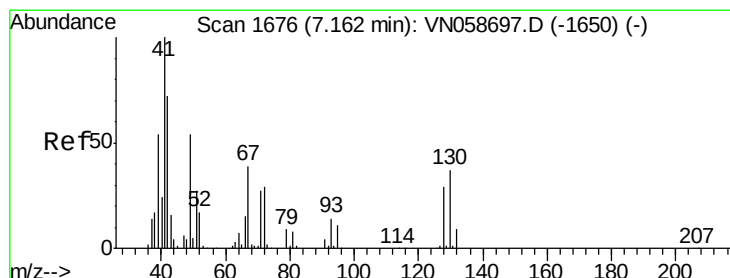
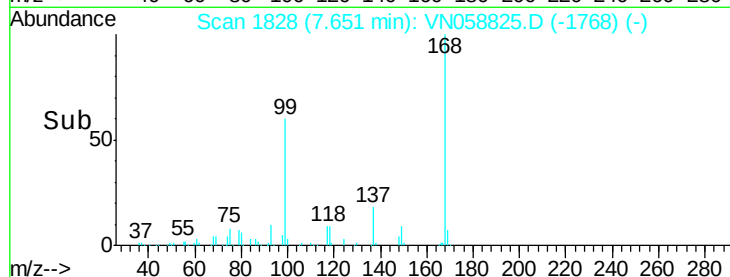
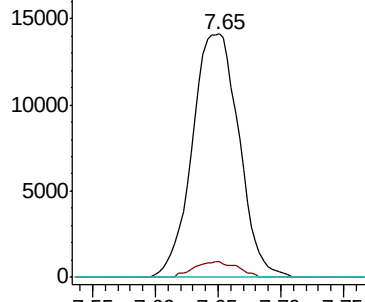
117 100

119 6.2 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



#41

Methacrylonitrile

Concen: 0.200 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.04 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Tgt Ion: 41 Resp: 572

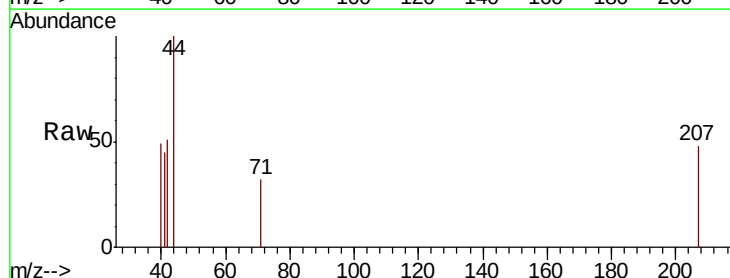
Ion Ratio Lower Upper

41 100

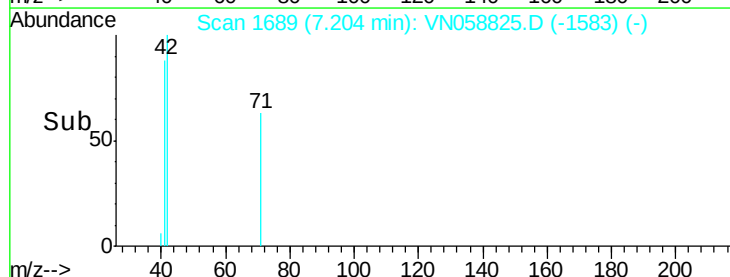
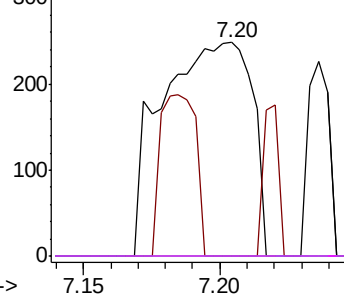
39 11.7 115.4 173.2#

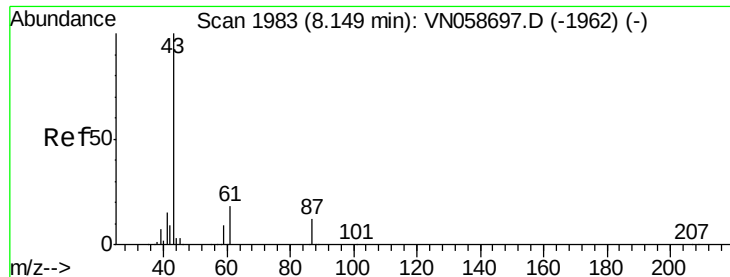
67 0.0 0.0 0.0

52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 10.589 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

ClientSampleId :

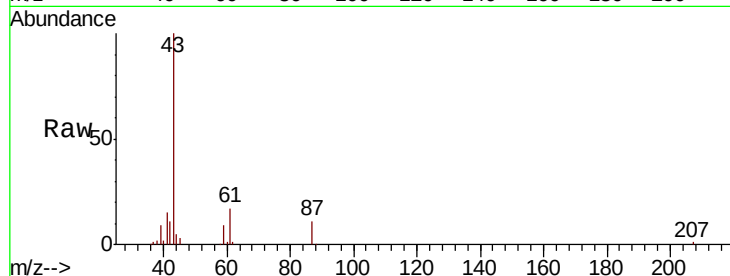
Tot Ion: 43 Resp: 110156

Ion Ratio Lower Upper

43 100

61 17.8 20.3 30.5#

87 11.5 9.8 14.6

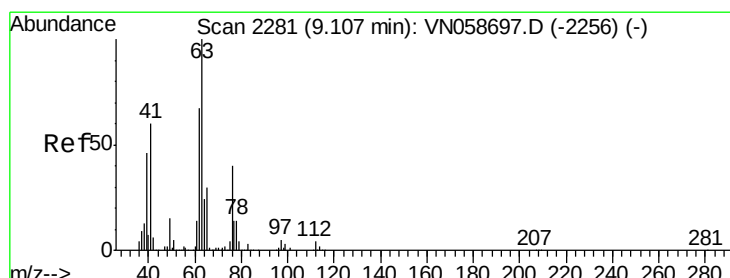
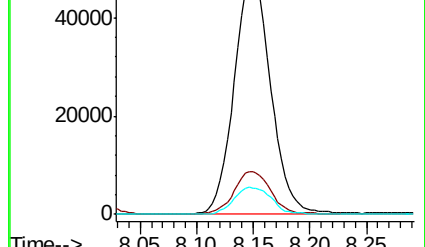
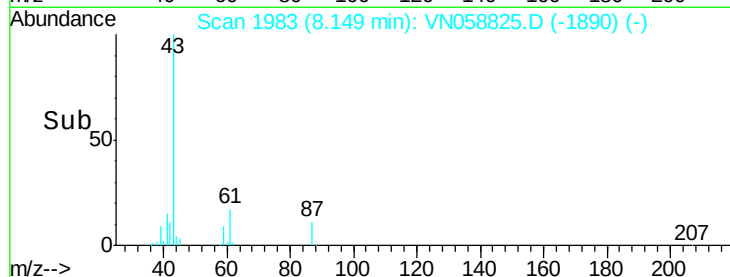


Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058697.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058697.D (-1962) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.510 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058825.D

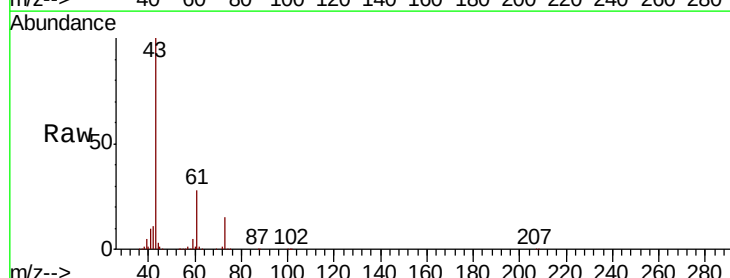
Acq: 17 Oct 2019 14:24

Tgt Ion: 63 Resp: 2368

Ion Ratio Lower Upper

63 100

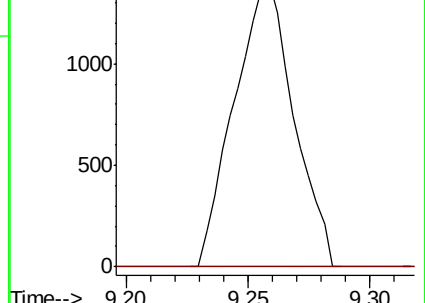
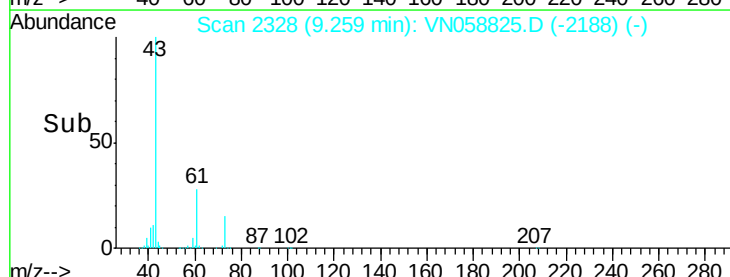
65 0.0 24.1 36.1#

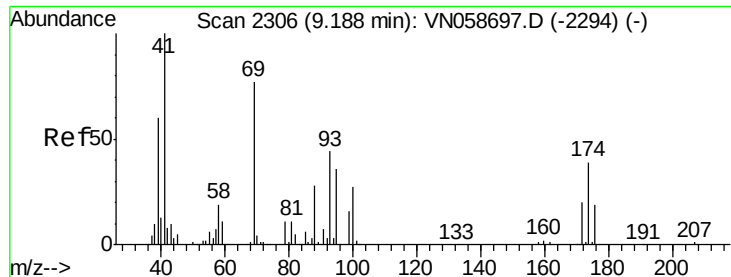


Abundance Ion 62.90 (62.60 to 63.60): VN058697.D (-2256) (-)

Ion 64.90 (64.60 to 65.60): VN058697.D (-2256) (-)

Time-->

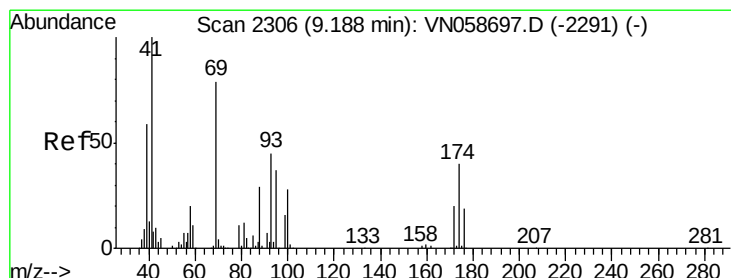
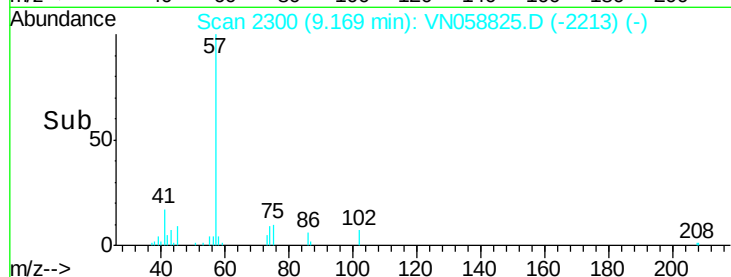
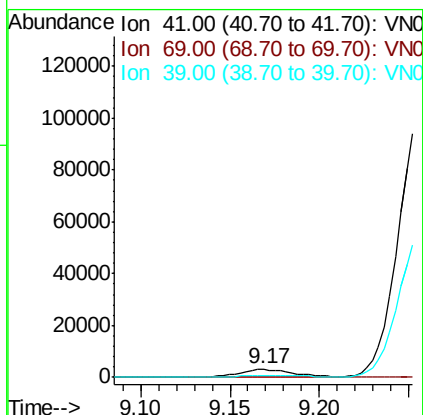
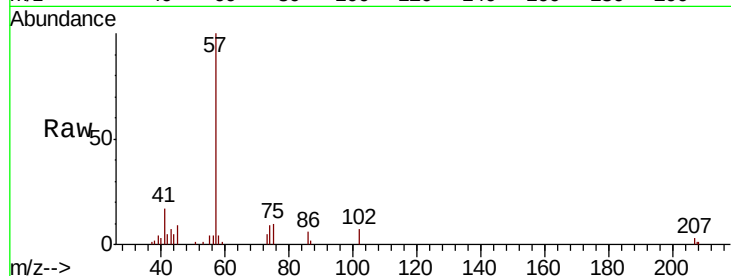




#48
Methvl methacrylate
Concen: 1.424 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

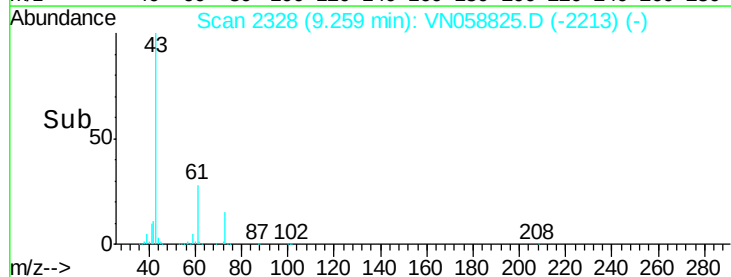
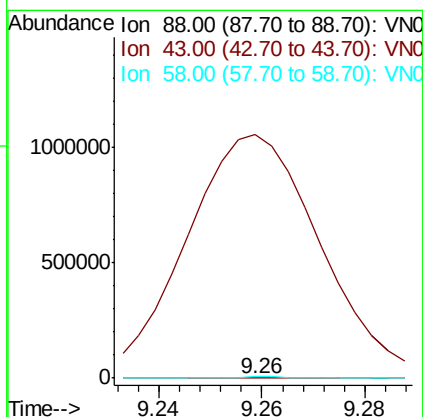
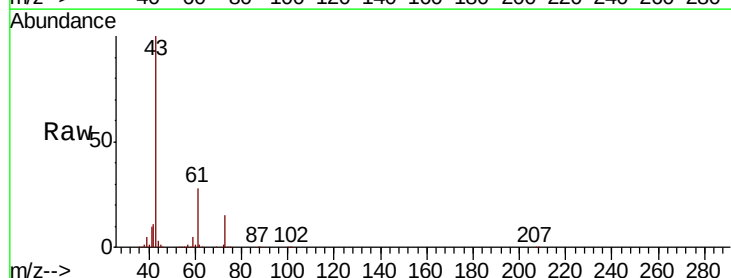
Instrument :
MSVOA_N
ClientSampleId :

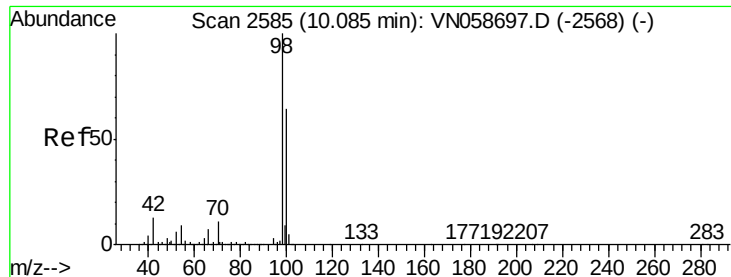
Tot Ion: 41 Resp: 6713
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 3.166 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.07 min
Lab File: VN058825.D
Acq: 17 Oct 2019 14:24

Tgt Ion: 88 Resp: 231
Ion Ratio Lower Upper
88 100
43 841111.7 28.6 43.0#
58 4133.8 57.2 85.8#





#50

Toluene-d8

Concen: 51.327 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

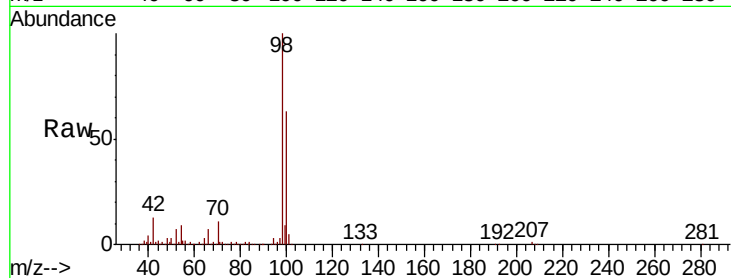
ClientSampleId :

Tot Ion: 98 Resp: 757149

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



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

Ion 100.00 (99.70 to 100.70): VN058825.D (-2492) (-)

10.09

400000

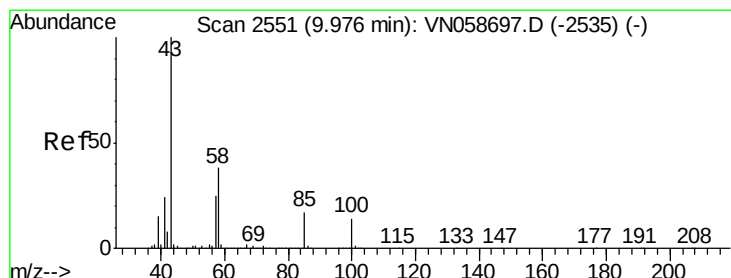
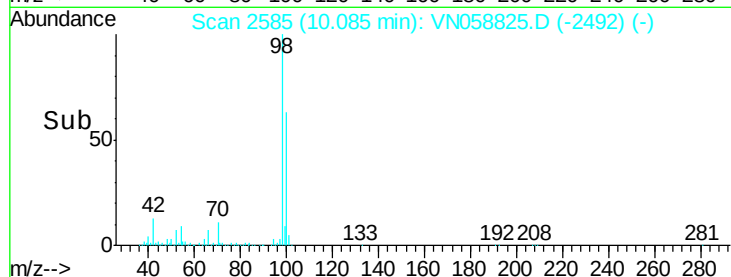
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.205 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN058825.D

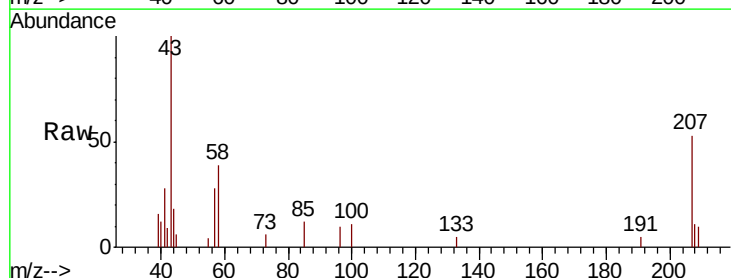
Acq: 17 Oct 2019 14:24

Tgt Ion: 43 Resp: 7042

Ion Ratio Lower Upper

43 100

58 36.1 30.3 45.5



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

Ion 58.00 (57.70 to 58.70): VN058825.D (-2458) (-)

9.97

12000

10000

8000

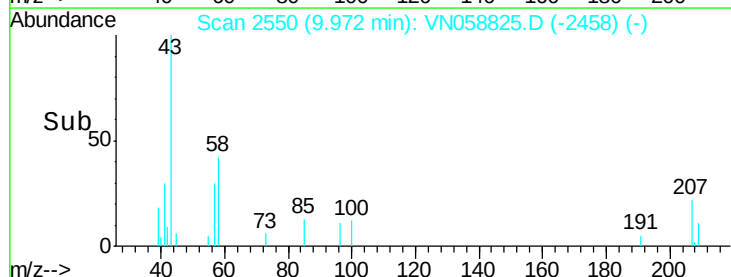
6000

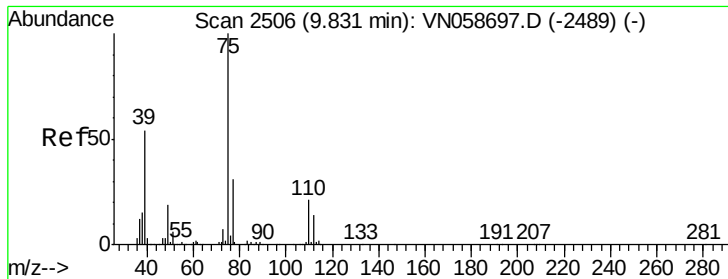
4000

2000

0

Time-->



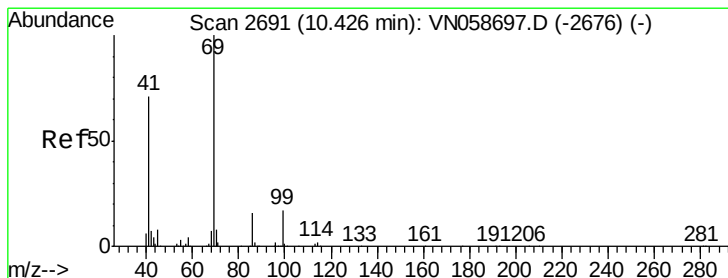
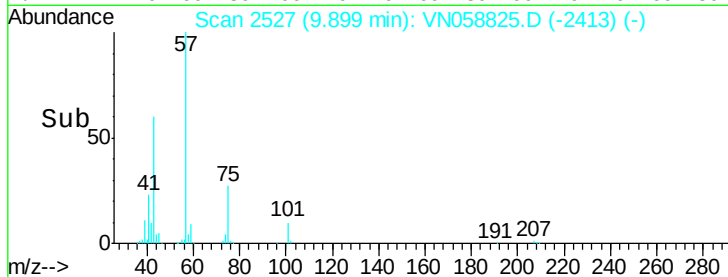
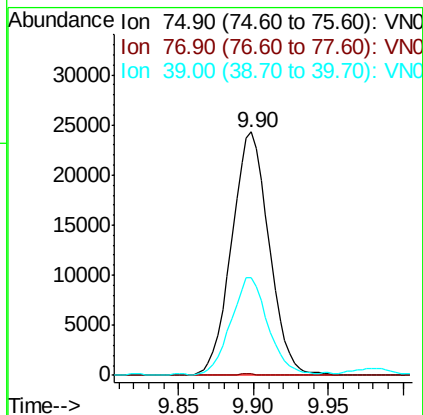
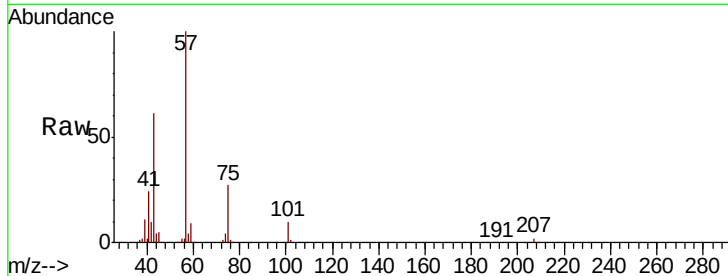


#54

cis-1,3-Dichloropropene
 Concen: 5.782 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN058825.D
 Acq: 17 Oct 2019 14:24

Instrument :
 MSVOA_N
 ClientSampleId :

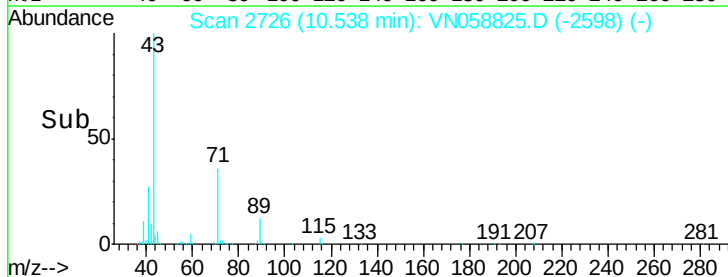
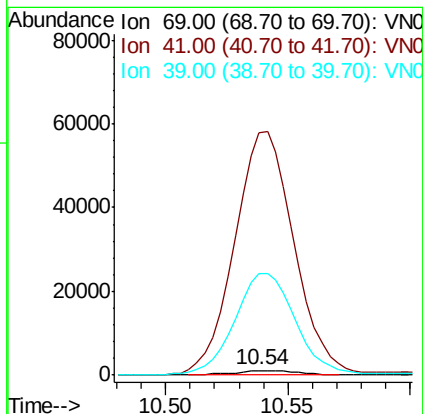
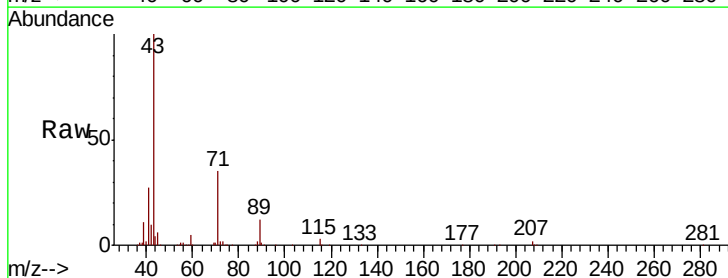
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.7	24.4	36.6#
39	40.3	43.1	64.7#

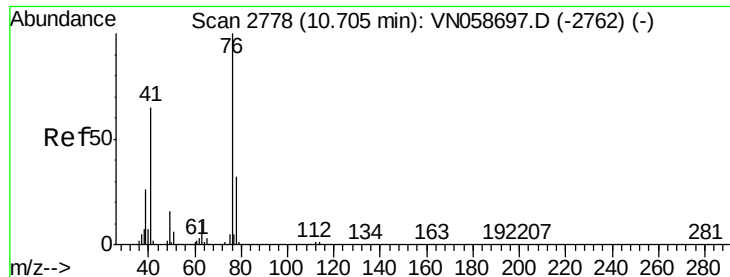


#56

Ethyl methacrylate
 Concen: 0.312 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN058825.D
 Acq: 17 Oct 2019 14:24

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4934.7	56.8	85.2#
39	2125.1	32.5	48.7#

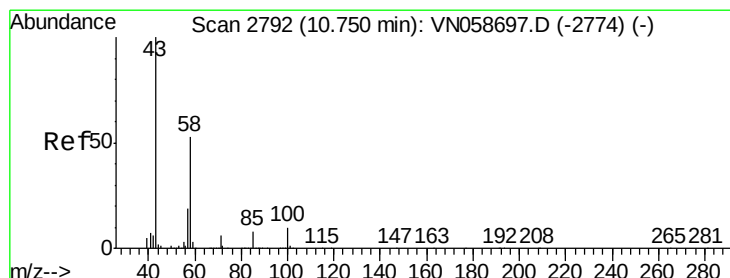
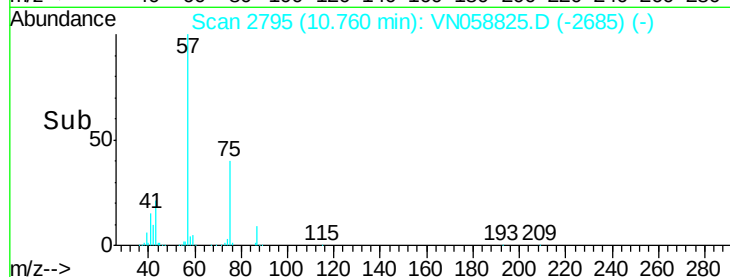
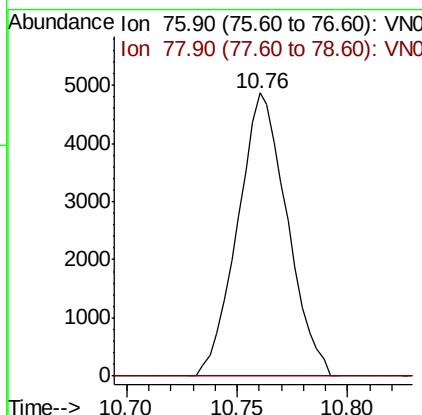
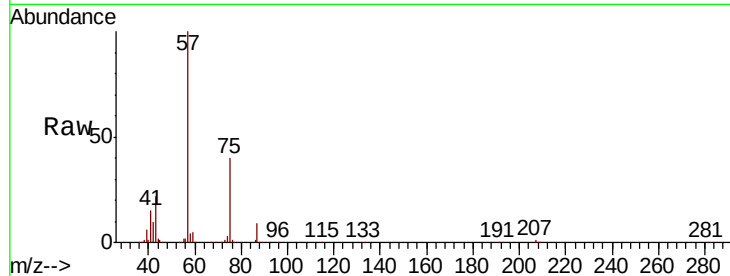




#57
 1,3-Dichloropropane
 Concen: 1.026 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN058825.D
 Acq: 17 Oct 2019 14:24

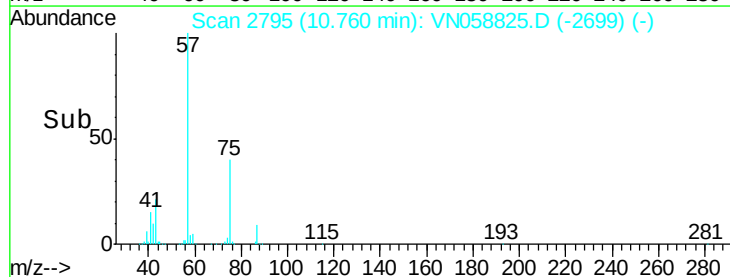
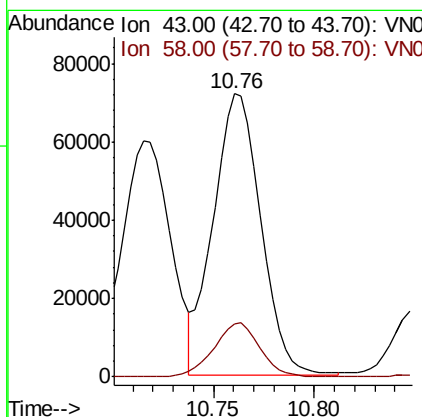
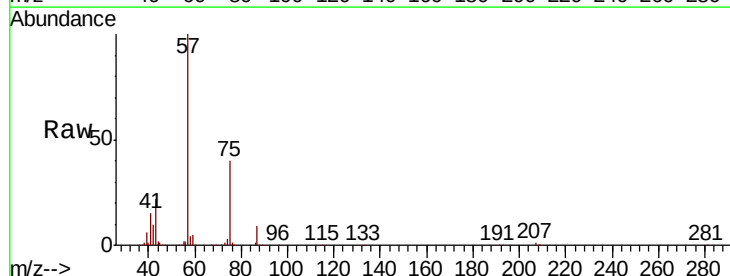
Instrument :
 MSVOA_N
 ClientSampled :

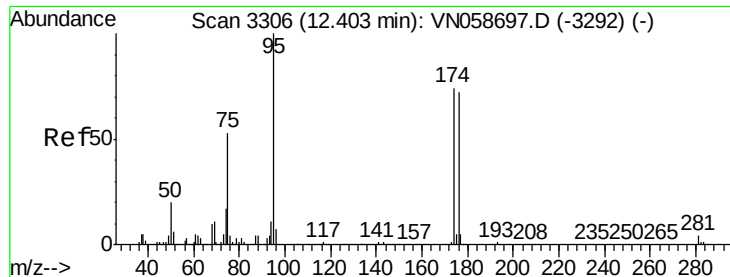
Tot Ion: 76 Resp: 7587
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 26.199 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN058825.D
 Acq: 17 Oct 2019 14:24

Tgt Ion: 43 Resp: 118295
 Ion Ratio Lower Upper
 43 100
 58 18.7 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 44.097 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

ClientSampleId :

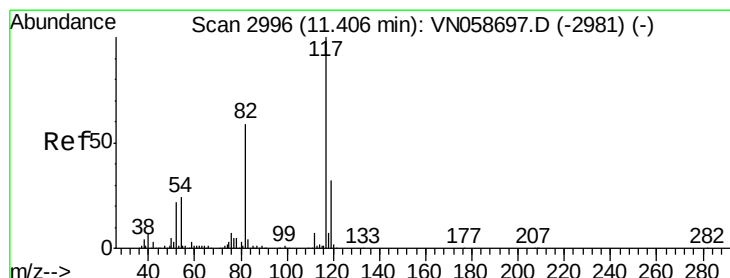
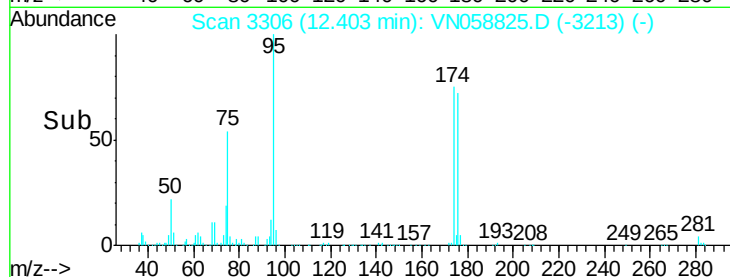
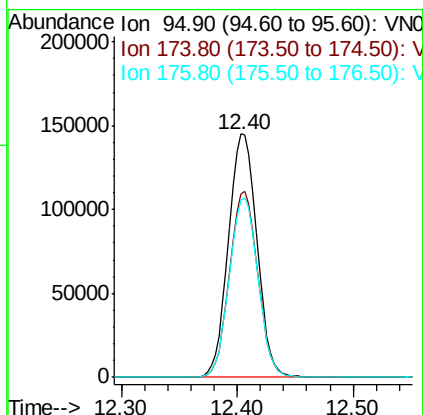
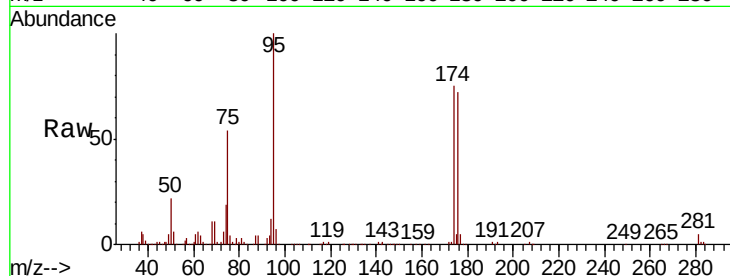
Tot Ion: 95 Resp: 246234

Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.4

176 73.8 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: VN058825.D

Acq: 17 Oct 2019 14:24

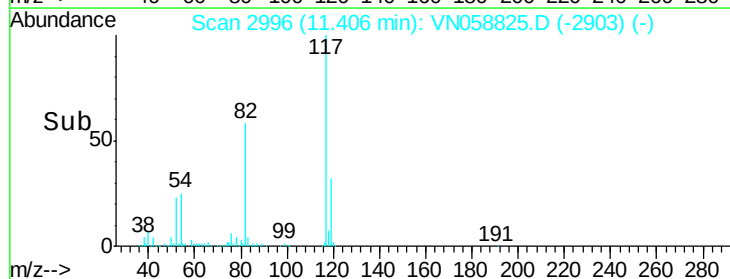
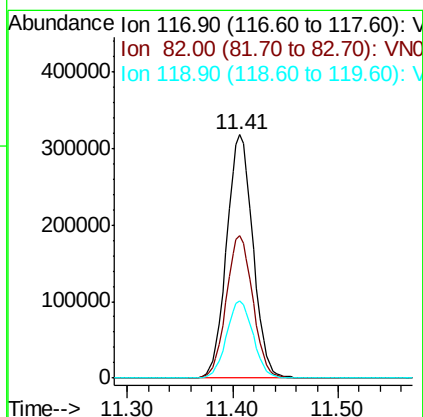
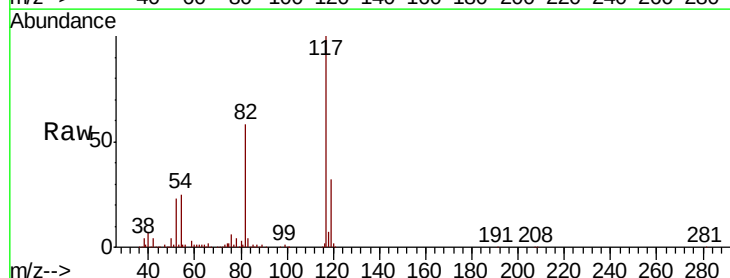
Tgt Ion: 117 Resp: 547099

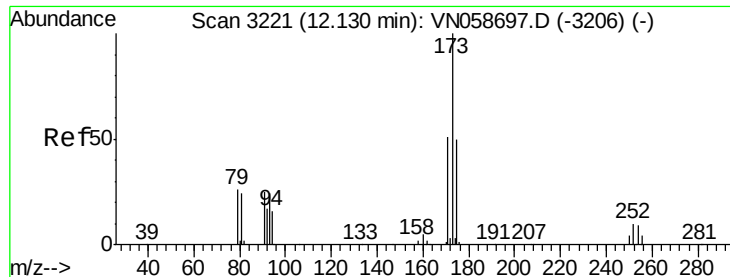
Ion Ratio Lower Upper

117 100

82 58.4 47.0 70.4

119 31.8 25.4 38.2





#71

Bromoform

Concen: 0.362 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

ClientSampled :

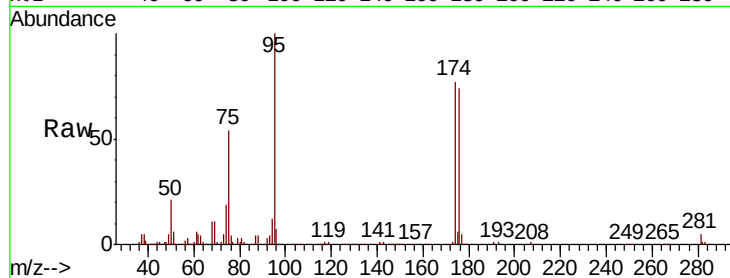
Tot Ion:173 Resp: 1089

Ion Ratio Lower Upper

173 100

175 1094.4 24.6 73.8#

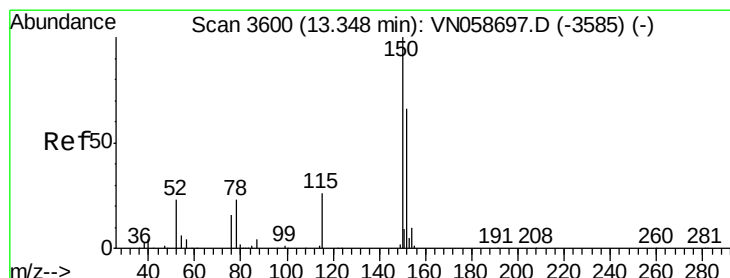
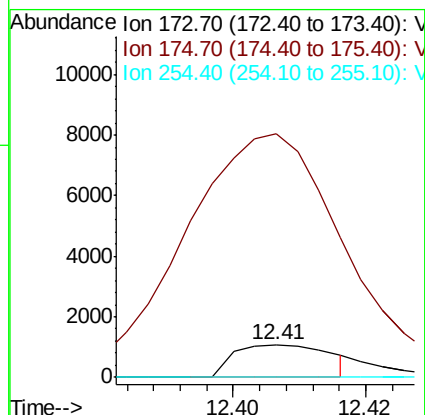
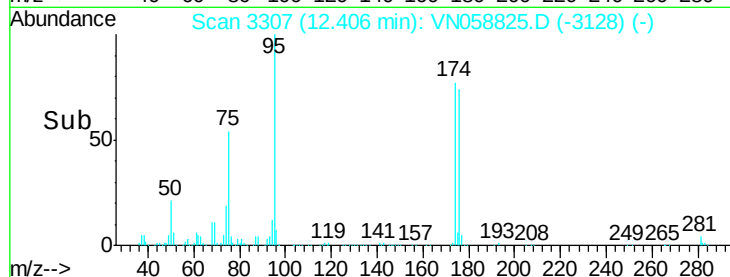
254 0.0 0.1 0.1#



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: VN058825.D

Acq: 17 Oct 2019 14:24

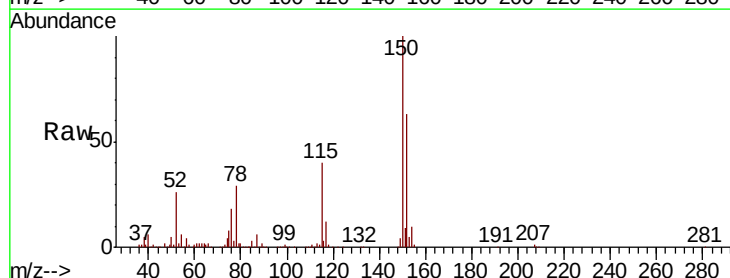
Tgt Ion:152 Resp: 211035

Ion Ratio Lower Upper

152 100

115 61.7 30.4 91.2

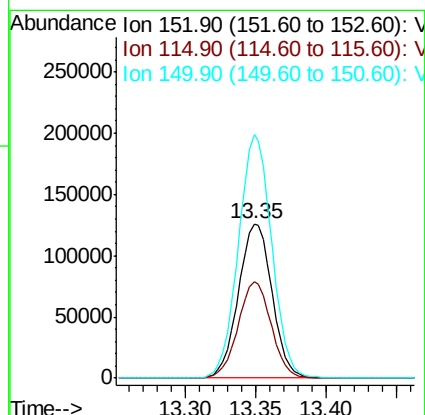
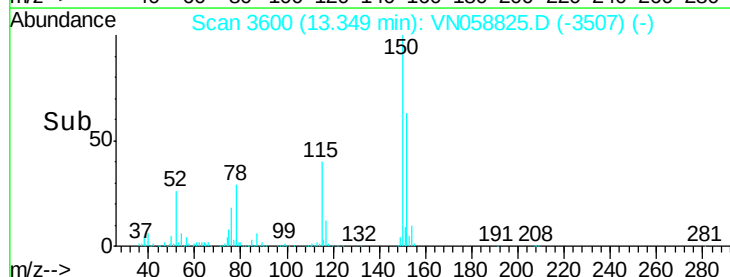
150 156.2 0.0 345.4

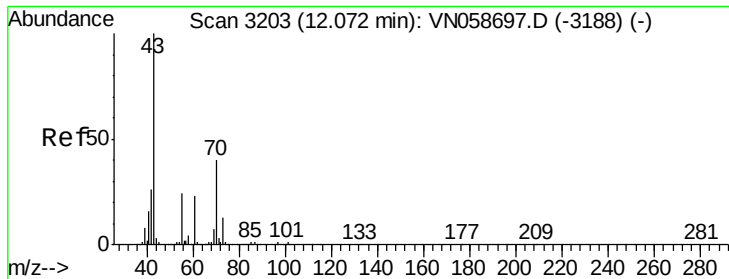


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.517 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3550

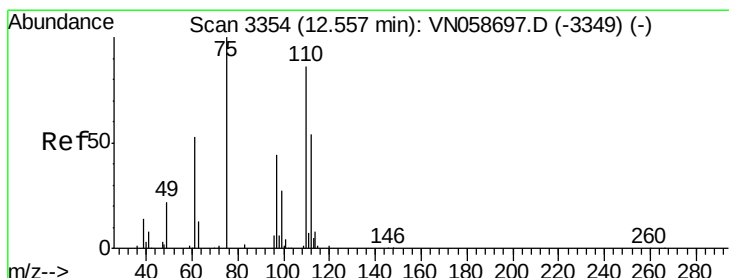
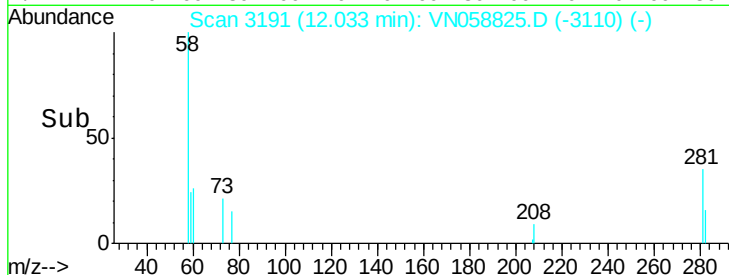
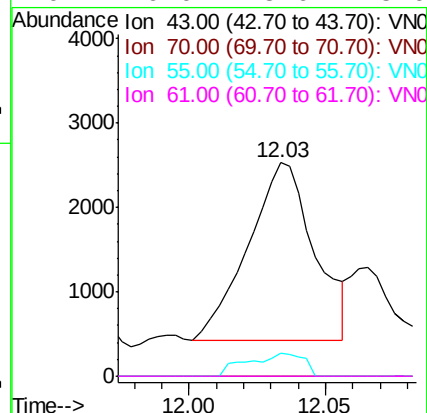
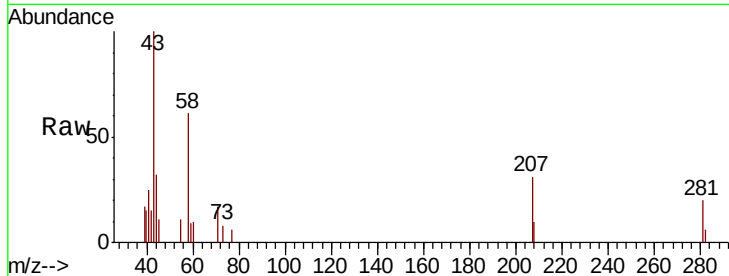
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 11.1 19.6 29.4#

61 0.0 18.6 28.0#



#76

1,2,3-Trichloropropane

Concen: 28.411 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058825.D

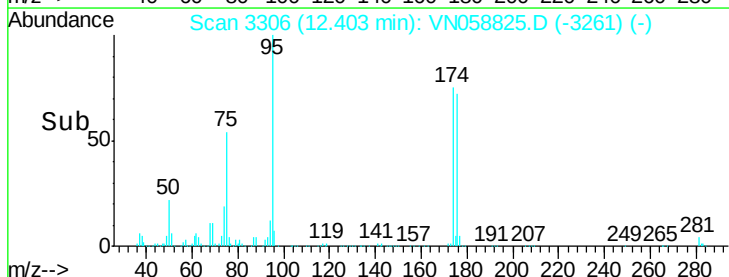
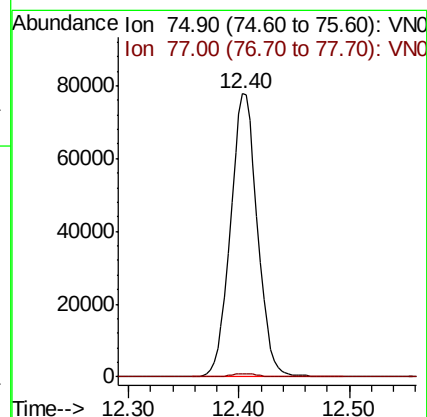
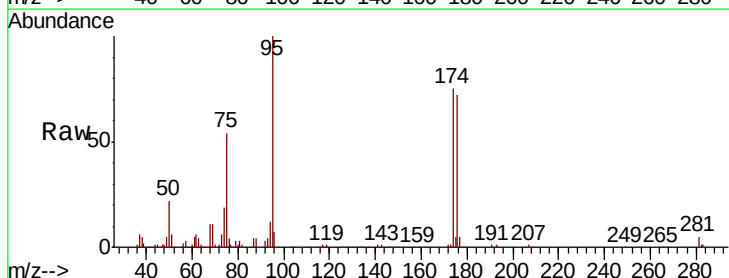
Acq: 17 Oct 2019 14:24

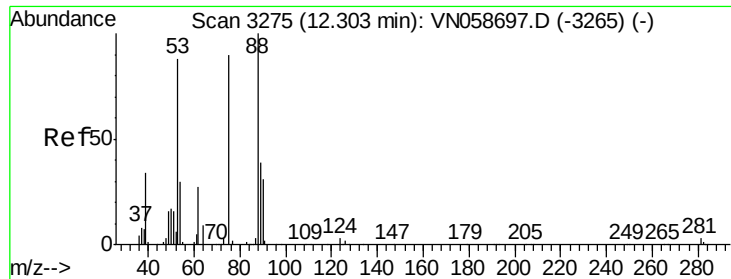
Tgt Ion: 75 Resp: 131533

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 76.105 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058825.D

Acq: 17 Oct 2019 14:24

Instrument :

MSVOA_N

ClientSampleId :

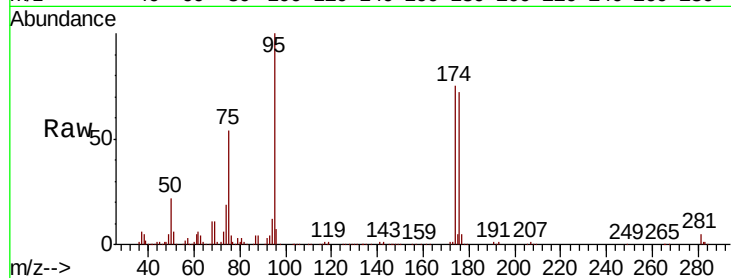
Tot Ion: 75 Resp: 131533

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

