

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058833.D
 Acq On : 17 Oct 2019 17:21
 Operator : JC/SP
 Sample : K5393-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:29:36 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	365980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	584999	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	545073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	209520	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	269819	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
35) Dibromofluoromethane	7.57	113	196330	54.33	ug/l	0.00
Spiked Amount			Recovery	=	108.66%	
50) Toluene-d8	10.08	98	755380	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
62) 4-Bromofluorobenzene	12.41	95	242932	44.42	ug/l	0.00
Spiked Amount			Recovery	=	88.84%	

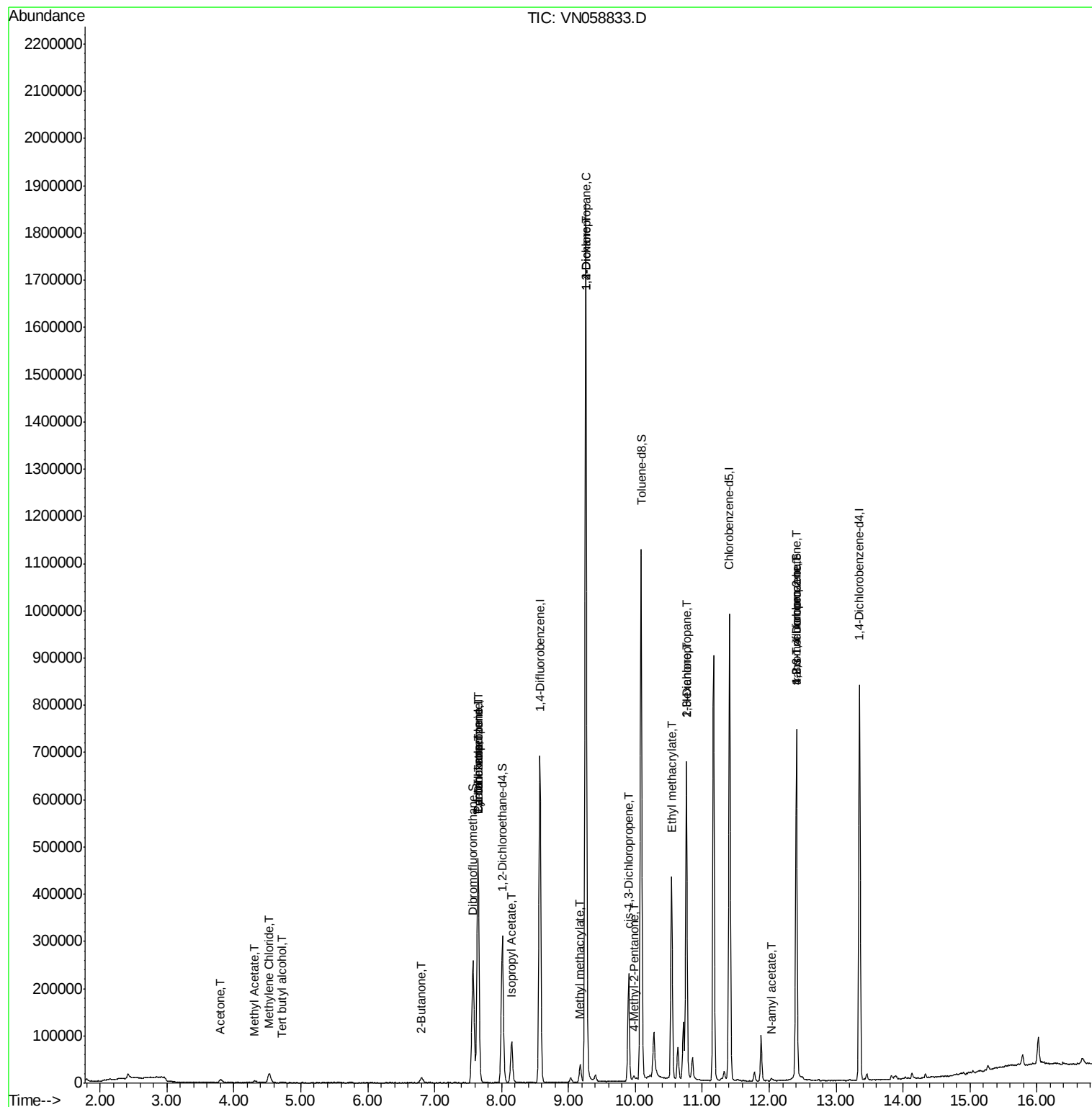
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	195	0.235	ug/l #	72
16) Acetone	3.80	43	12522	5.903	ug/l	98
18) Methyl Acetate	4.31	43	6750	1.255	ug/l #	79
20) Methylene Chloride	4.53	84	13623	3.073	ug/l	95
25) 2-Butanone	6.81	43	870	0.284	ug/l #	50
31) Cyclohexane	7.65	56	9274	1.234	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	30517	5.159	ug/l #	51
38) Carbon Tetrachloride	7.64	117	36465	6.326	ug/l #	17
43) Isopropyl Acetate	8.15	43	101373	9.948	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	2146	0.472	ug/l #	45
48) Methyl methacrylate	9.17	41	6396	1.385	ug/l #	14
49) 1,4-Dioxane	9.26	88	65	0.910	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6692	1.169	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	36911	5.163	ug/l #	70
56) Ethyl methacrylate	10.54	69	1885	0.303	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6650	0.918	ug/l #	42
59) 2-Hexanone	10.76	43	100316	22.682	ug/l #	53
74) N-amyl acetate	12.03	43	5006	0.735	ug/l #	46
76) 1,2,3-Trichloropropane	12.41	75	133879	29.127	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	133879	78.022	ug/l #	11

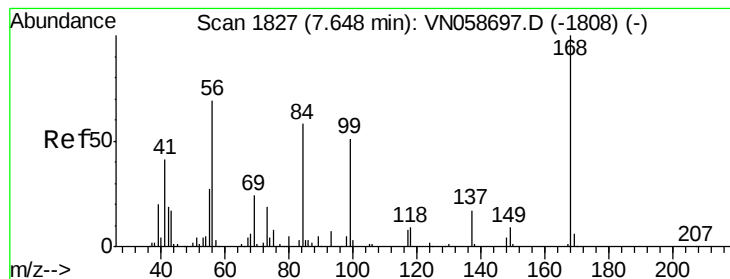
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058833.D

Acq: 17 Oct 2019 17:21

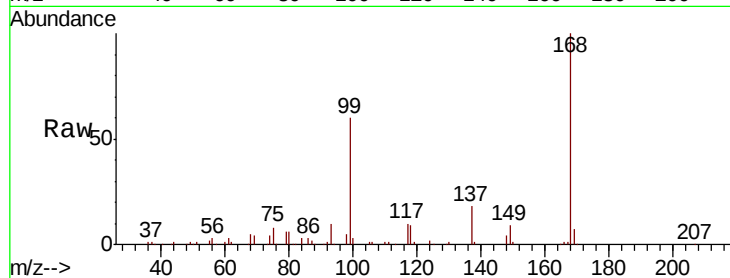
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 365980

Ion Ratio Lower Upper

168 100

99 59.9 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

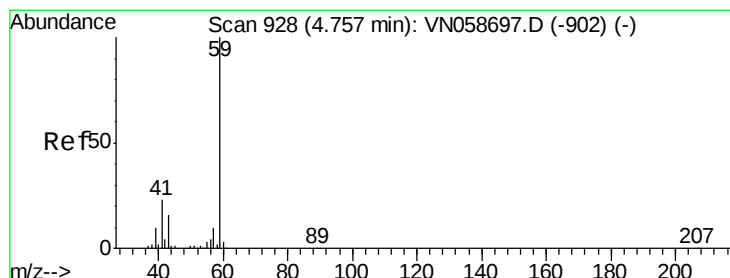
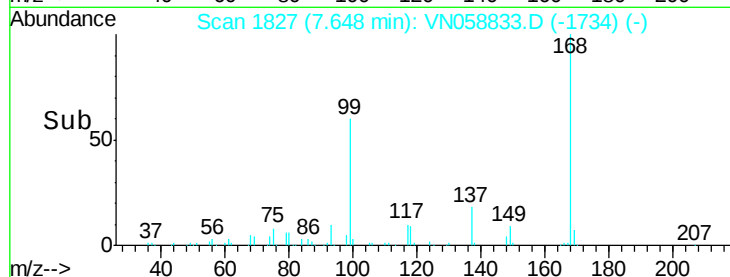
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.235 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.03 min

Lab File: VN058833.D

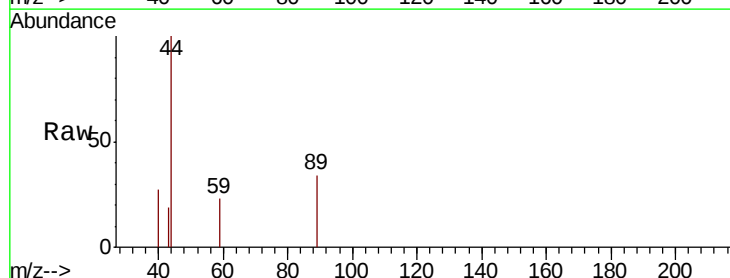
Acq: 17 Oct 2019 17:21

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

250

200

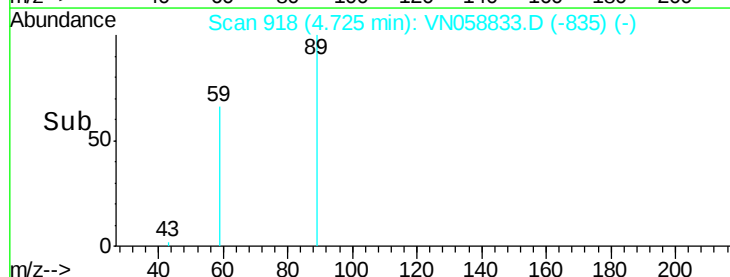
150

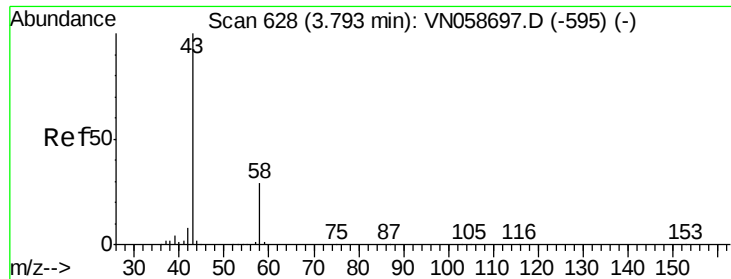
100

50

0

Time-->





#16

Acetone

Concen: 5.903 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

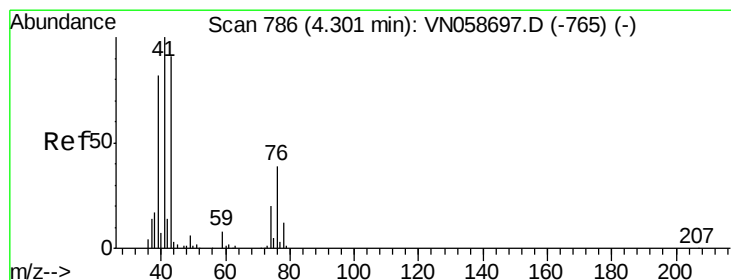
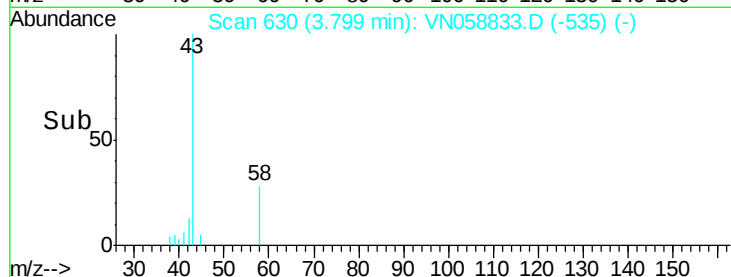
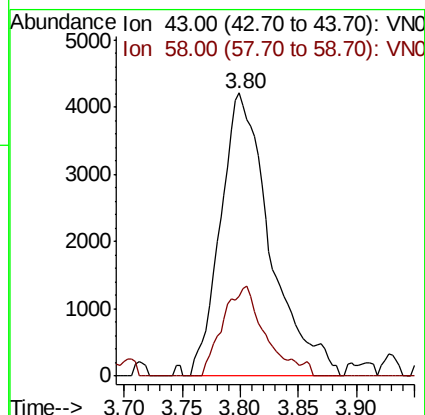
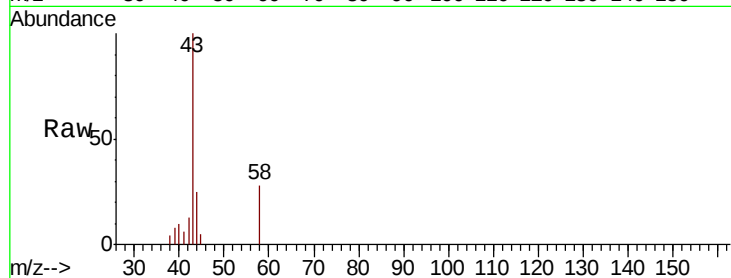
ClientSampleId :

Tot Ion: 43 Resp: 12522

Ion Ratio Lower Upper

43 100

58 28.1 23.3 34.9



#18

Methyl Acetate

Concen: 1.255 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN058833.D

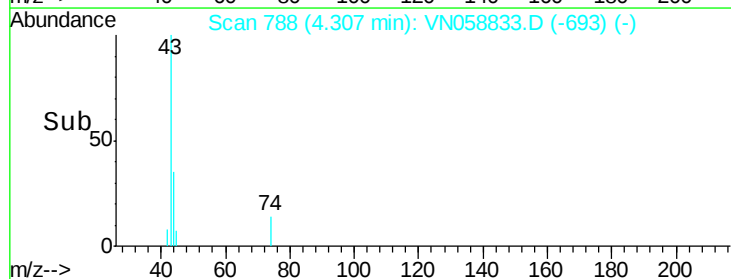
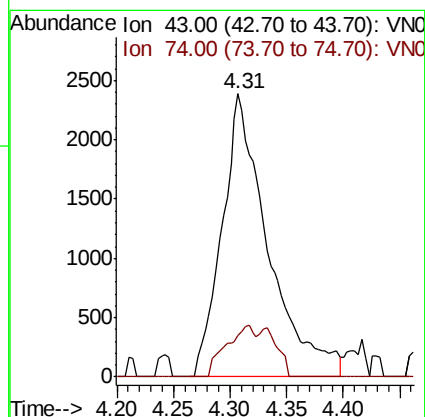
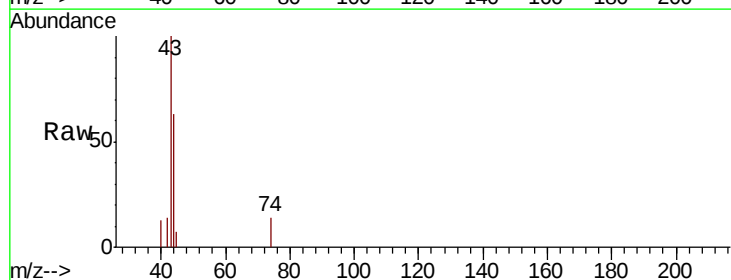
Acq: 17 Oct 2019 17:21

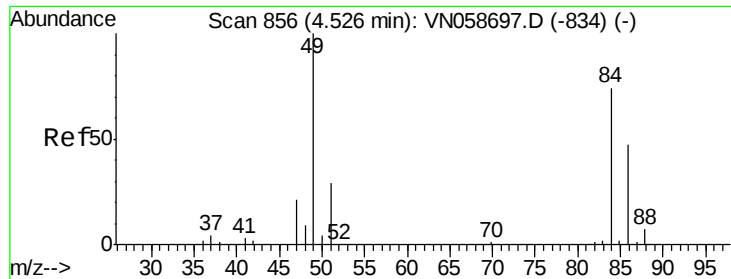
Tgt Ion: 43 Resp: 6750

Ion Ratio Lower Upper

43 100

74 11.4 17.2 25.8#

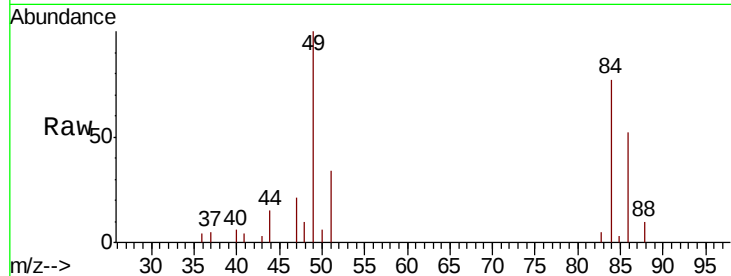




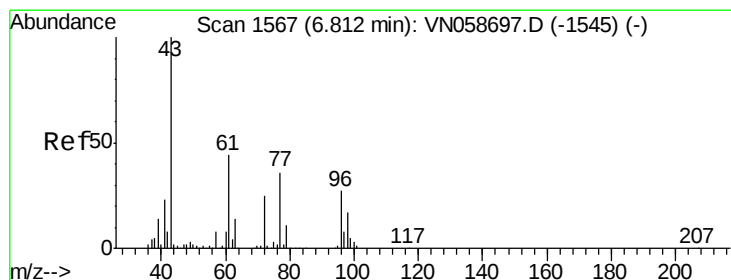
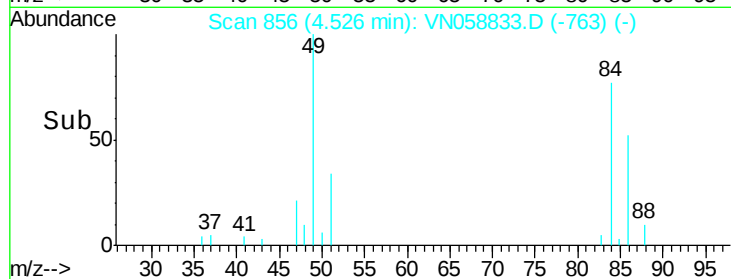
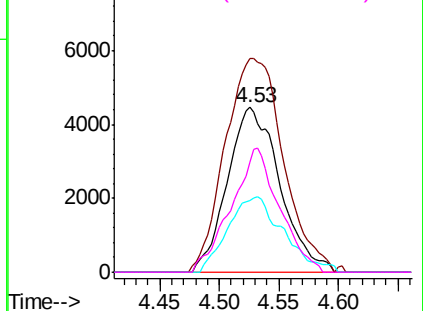
#20
Methvlene Chloride
Concen: 3.073 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058833.D
Acq: 17 Oct 2019 17:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 13623
Ion Ratio Lower Upper
84 100
49 129.4 107.6 161.4
51 43.5 31.4 47.0
86 67.0 50.3 75.5

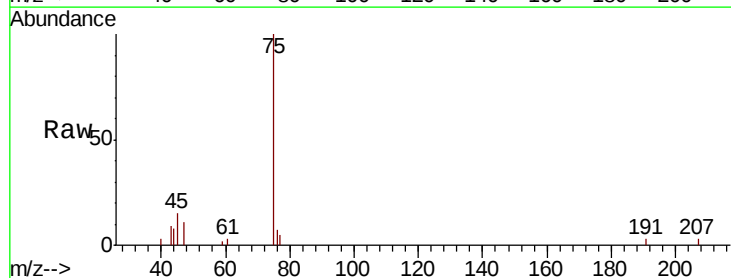


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

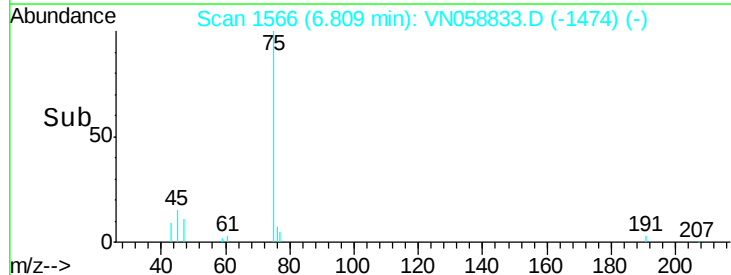
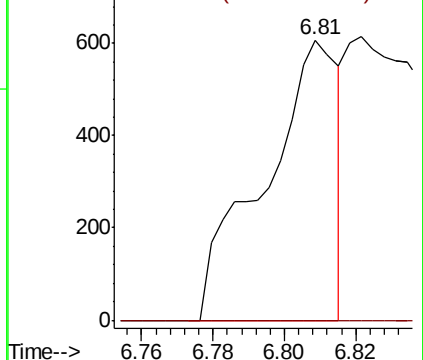


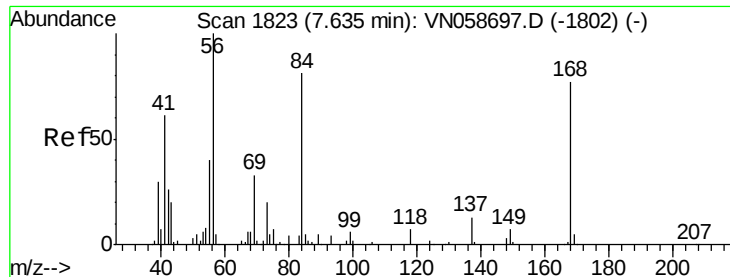
#25
2-Butanone
Concen: 0.284 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VN058833.D
Acq: 17 Oct 2019 17:21

Tgt Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



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

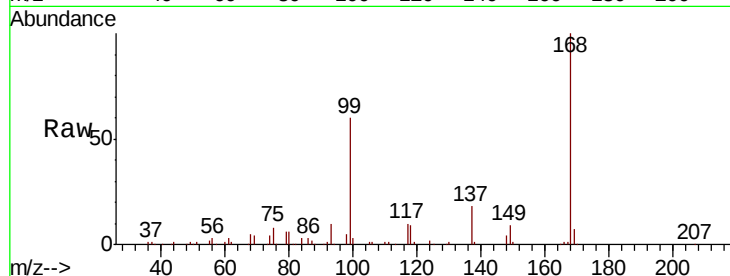




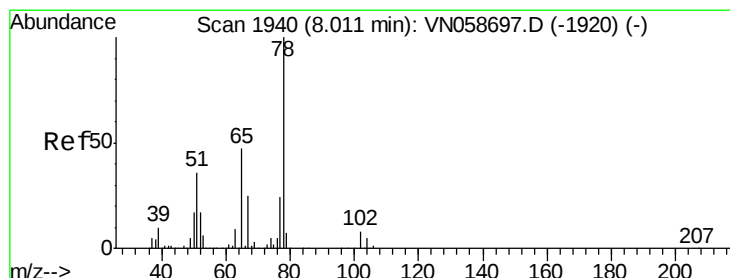
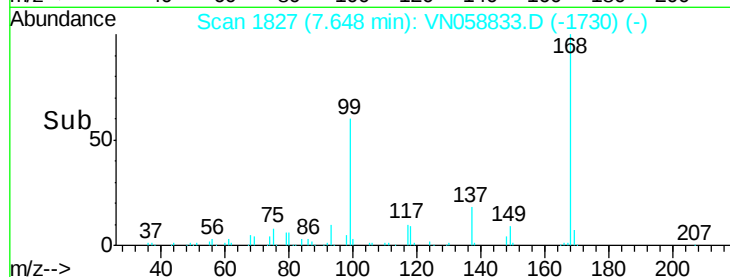
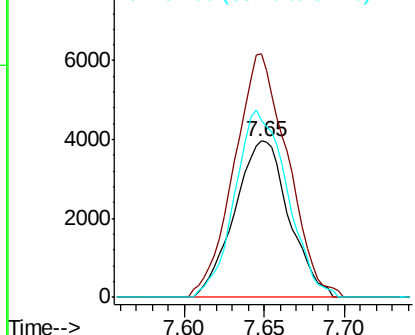
#31
Cyclohexane
Concen: 1.234 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058833.D
Acq: 17 Oct 2019 17:21

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 9274
Ion Ratio Lower Upper
56 100
69 156.0 26.2 39.4#
84 113.5 64.9 97.3#

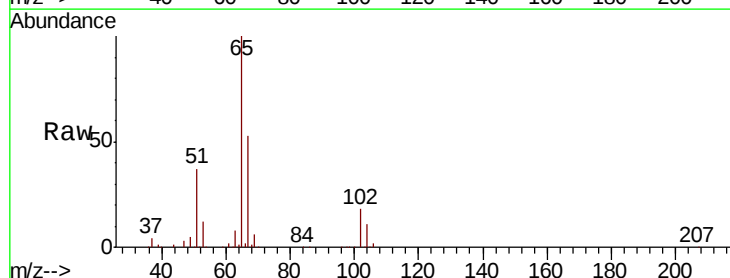


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

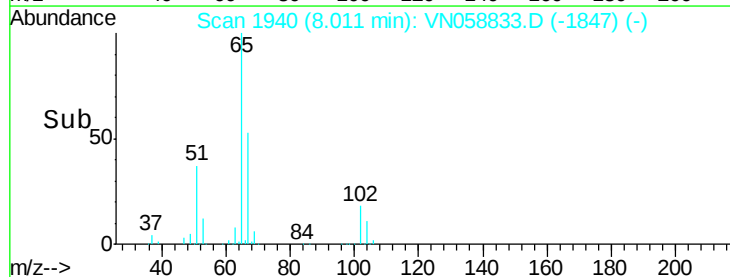
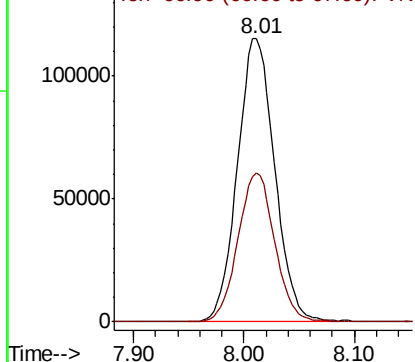


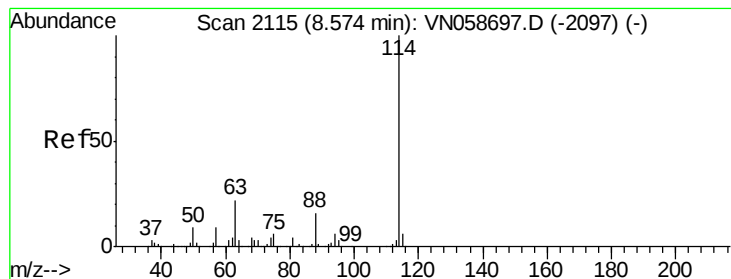
#33
1,2-Dichloroethane-d4
Concen: 52.661 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058833.D
Acq: 17 Oct 2019 17:21

Tgt Ion: 65 Resp: 269819
Ion Ratio Lower Upper
65 100
67 52.0 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# 2115

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

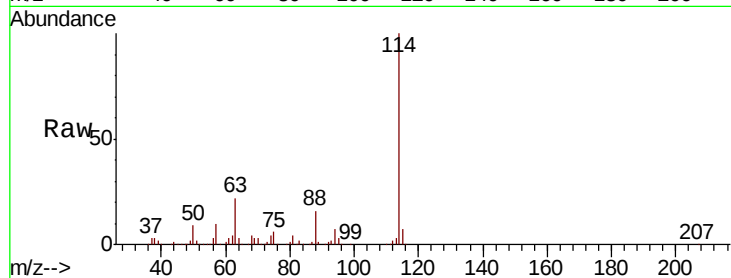
Tot Ion:114 Resp: 584999

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

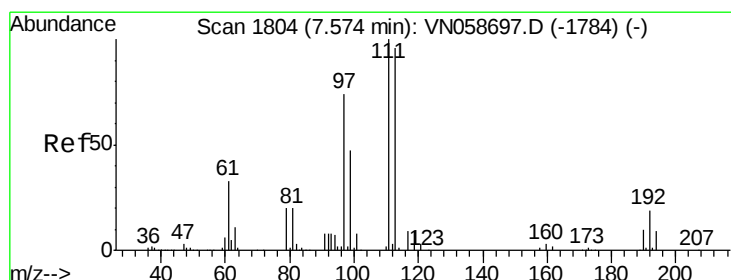
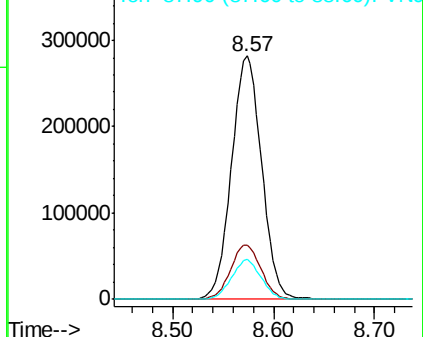
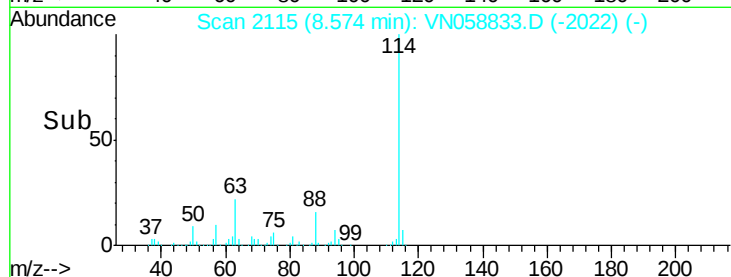
88 16.2 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 54.334 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

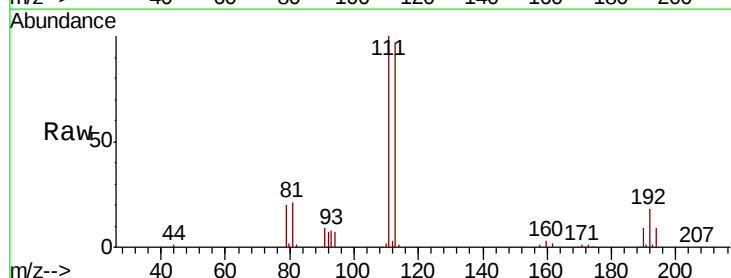
Tgt Ion:113 Resp: 196330

Ion Ratio Lower Upper

113 100

111 100.4 82.3 123.5

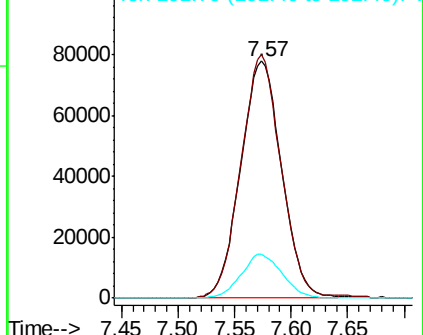
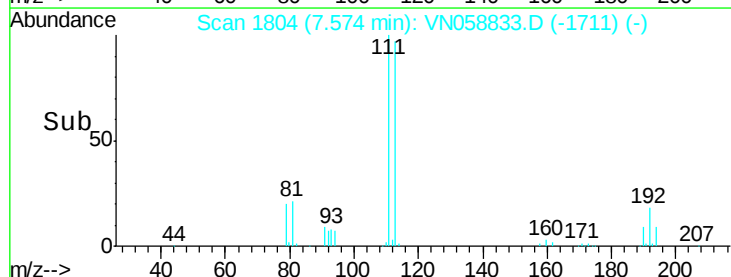
192 18.5 15.0 22.6

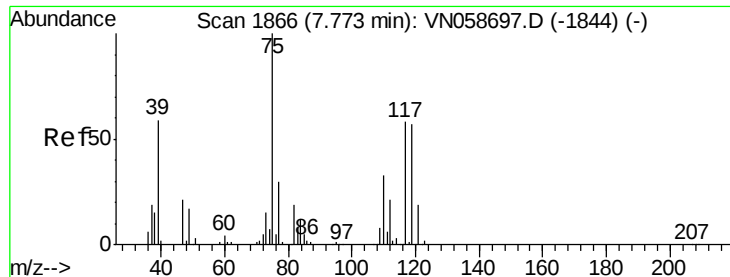


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

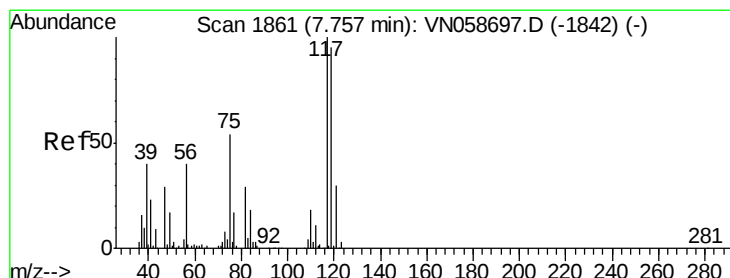
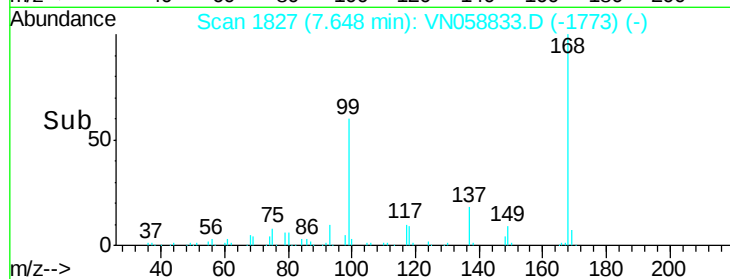
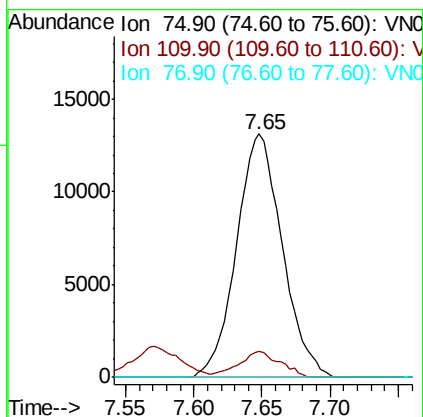
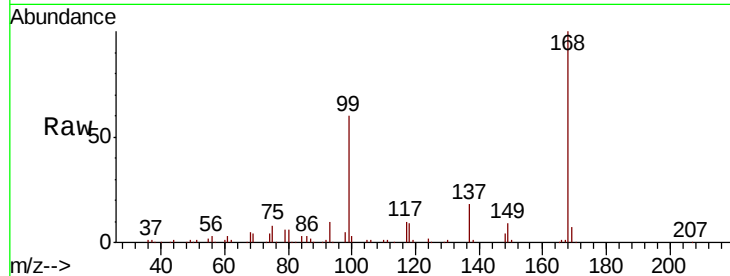




#36
 1,1-Dichloropropene
 Concen: 5.159 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058833.D
 Acq: 17 Oct 2019 17:21

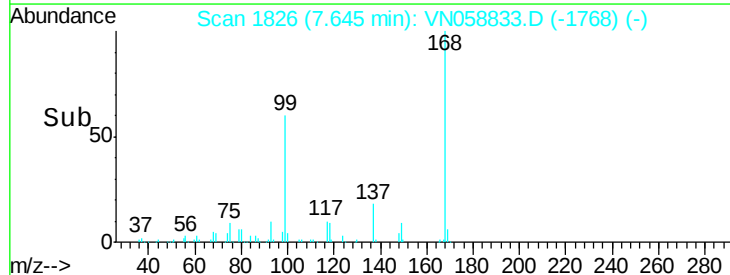
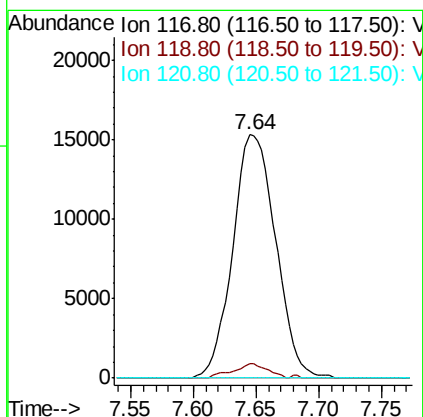
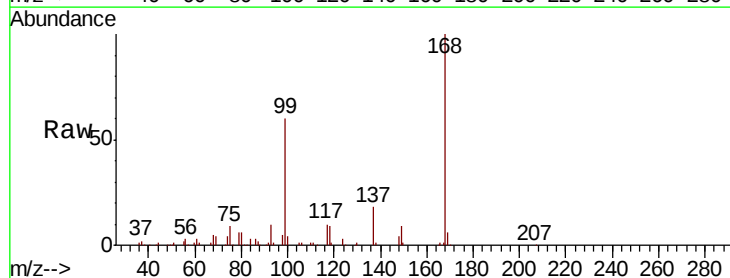
Instrument :
 MSVOA_N
 ClientSampleId :

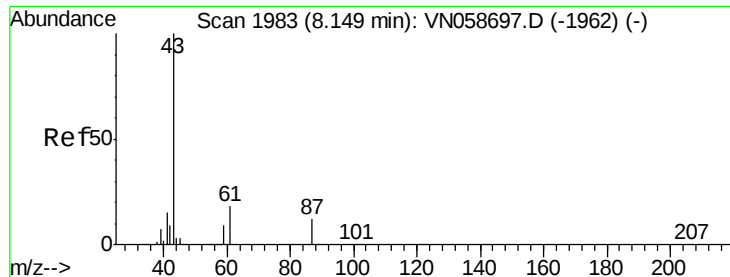
Tot Ion	75	Resp	30517
Ion Ratio	100	Lower	Upper
75	100		
110	9.6	16.6	49.8#
77	0.0	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 6.326 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN058833.D
 Acq: 17 Oct 2019 17:21

Tgt Ion	117	Resp	36465
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.7	75.7	113.5#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 9.948 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

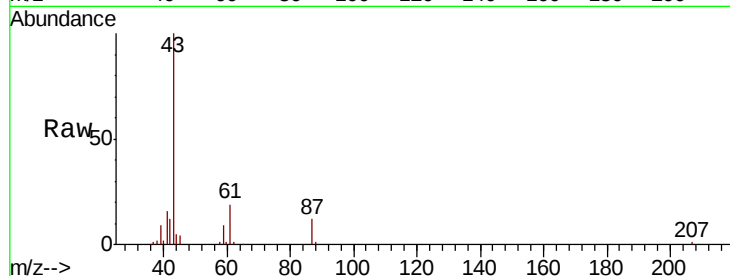
Tot Ion: 43 Resp: 101373

Ion Ratio Lower Upper

43 100

61 18.6 20.3 30.5#

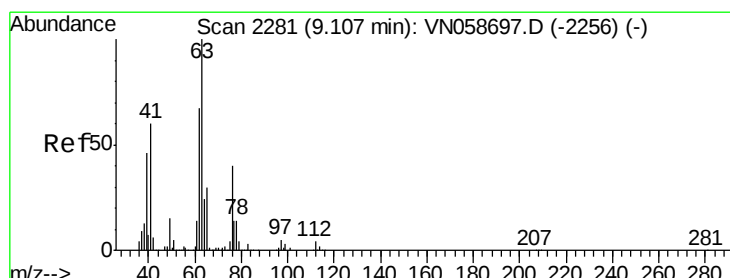
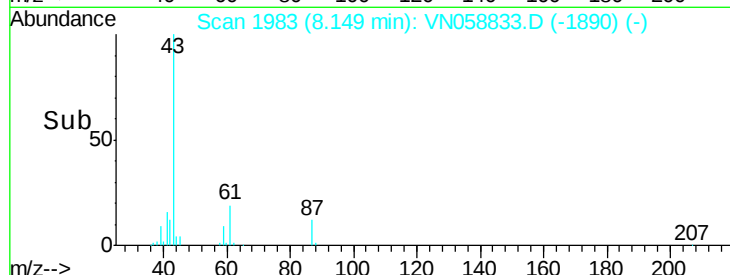
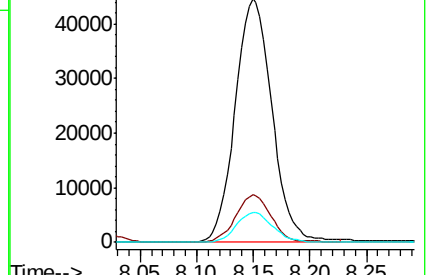
87 11.9 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058833.D (-1890) (-)

Ion 61.00 (60.70 to 61.70): VN058833.D (-1890) (-)

Ion 87.00 (86.70 to 87.70): VN058833.D (-1890) (-)



#45

1,2-Dichloropropane

Concen: 0.472 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN058833.D

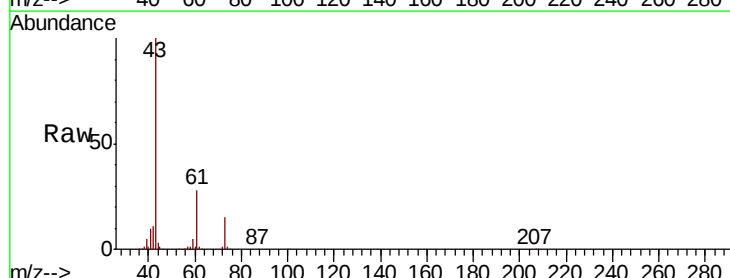
Acq: 17 Oct 2019 17:21

Tgt Ion: 63 Resp: 2146

Ion Ratio Lower Upper

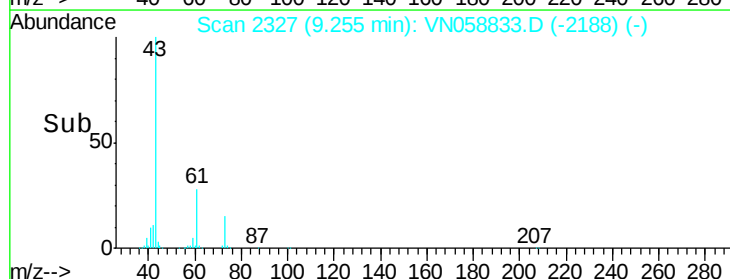
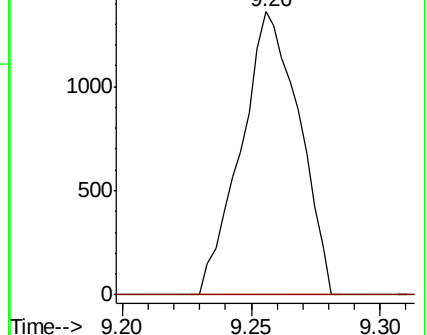
63 100

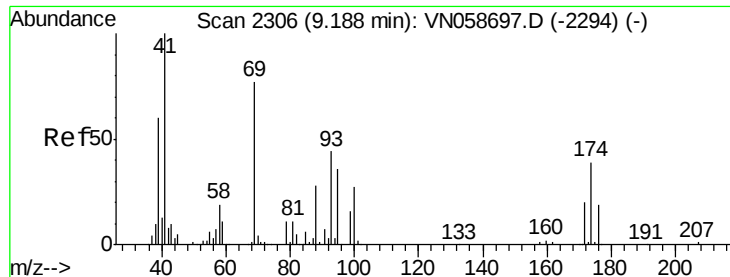
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN058833.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN058833.D (-2188) (-)

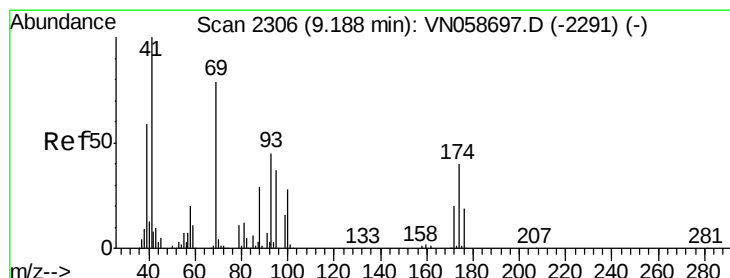
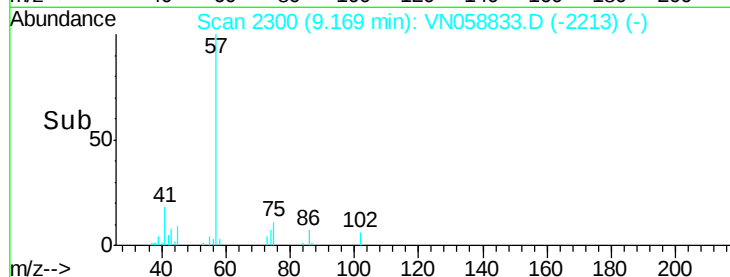
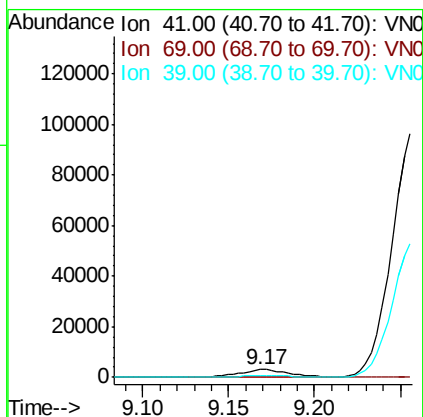
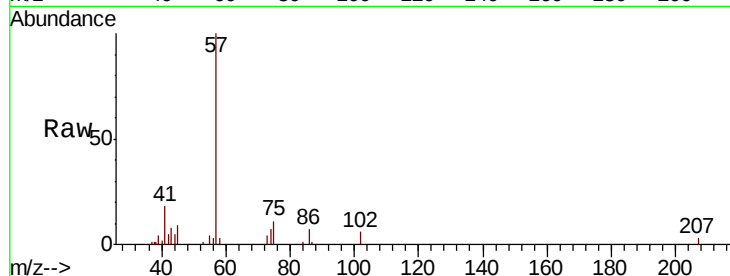




#48
Methvl methacrylate
Concen: 1.385 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058833.D
Acq: 17 Oct 2019 17:21

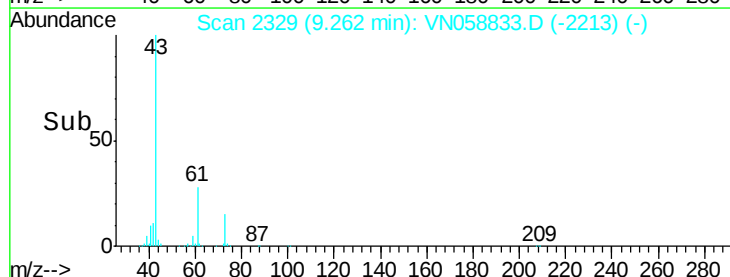
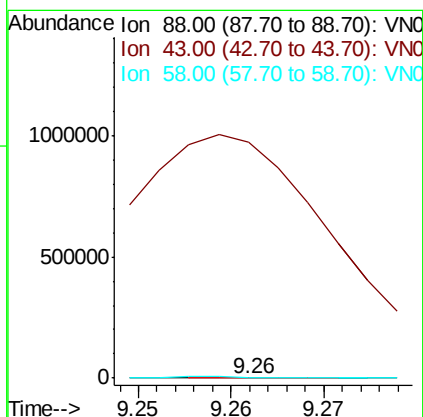
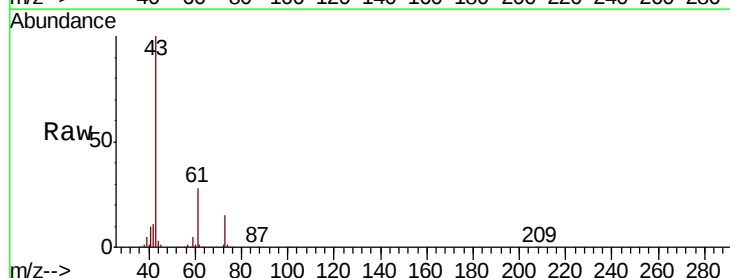
Instrument :
MSVOA_N
ClientSampleId :

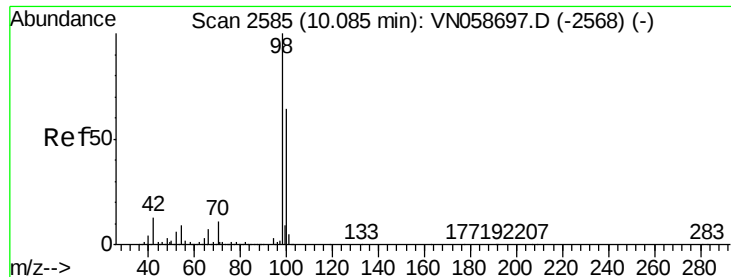
Tot Ion: 41 Resp: 6396
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.910 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.07 min
Lab File: VN058833.D
Acq: 17 Oct 2019 17:21

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 2796181.5 28.6 43.0#
58 13813.8 57.2 85.8#





#50

Toluene-d8

Concen: 52.277 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

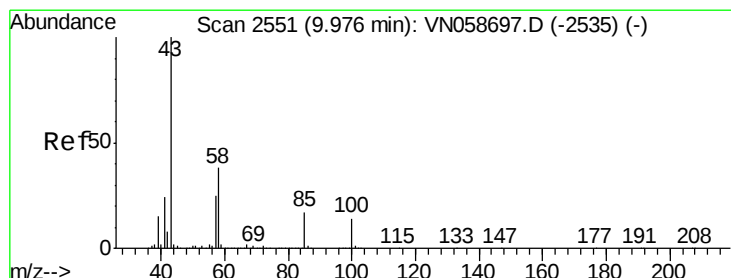
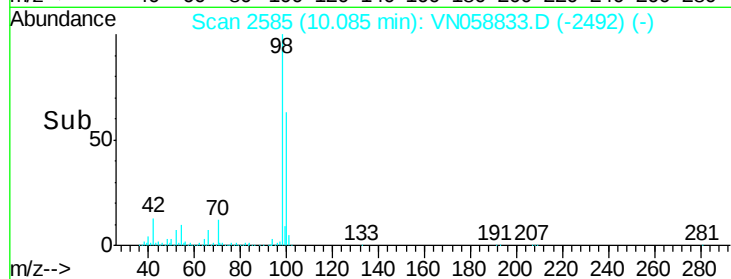
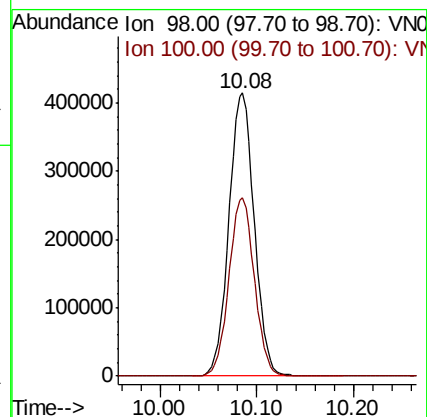
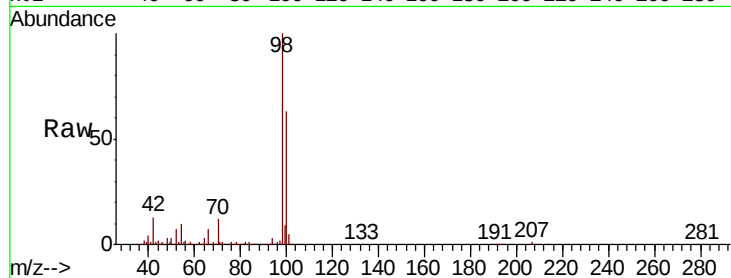
ClientSampleId :

Tot Ion: 98 Resp: 755380

Ion Ratio Lower Upper

98 100

100 63.2 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 1.169 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058833.D

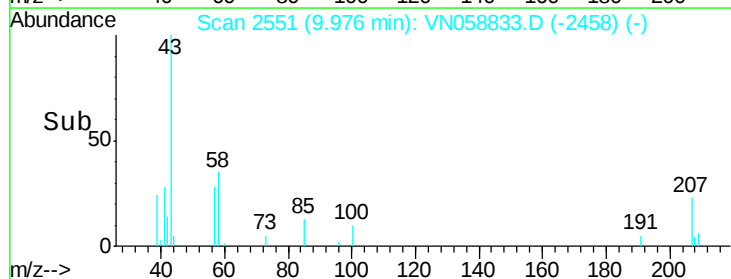
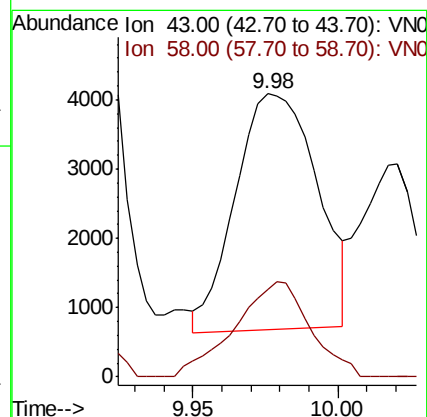
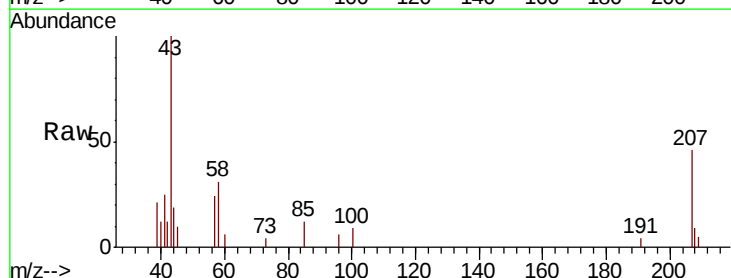
Acq: 17 Oct 2019 17:21

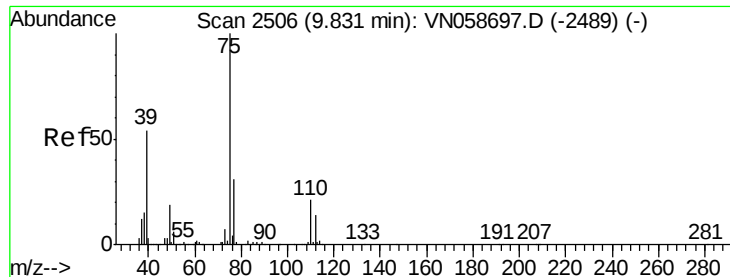
Tgt Ion: 43 Resp: 6692

Ion Ratio Lower Upper

43 100

58 37.1 30.3 45.5



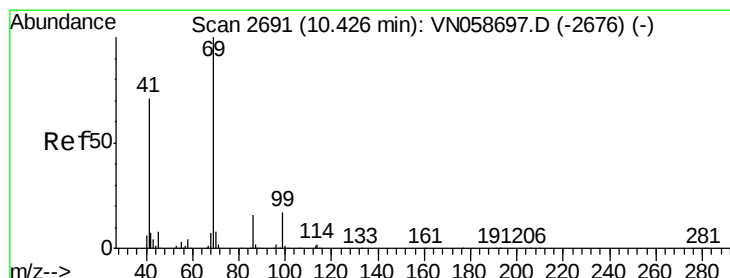
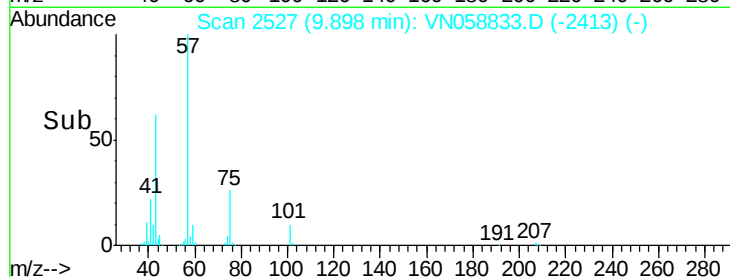
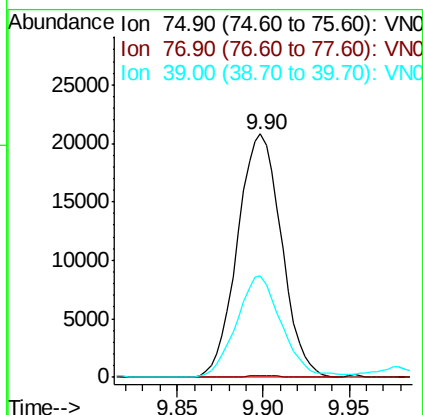
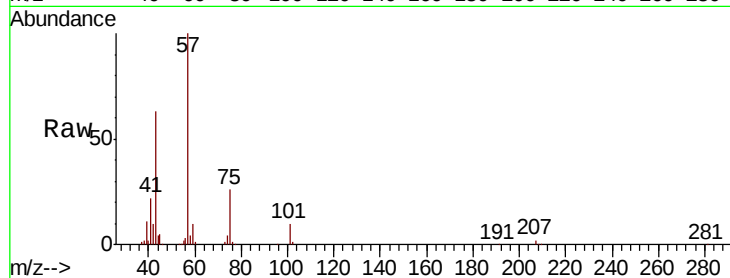


#54

cis-1,3-Dichloropropene
 Concen: 5.163 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN058833.D
 Acq: 17 Oct 2019 17:21

Instrument :
 MSVOA_N
 ClientSampled :

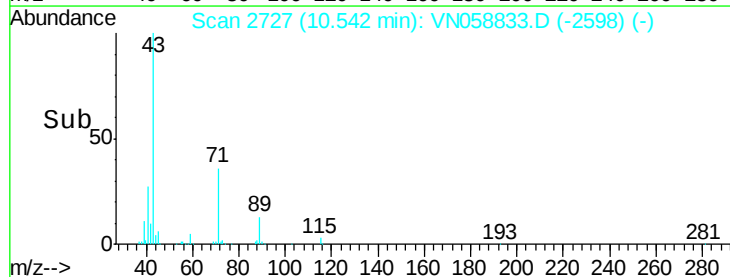
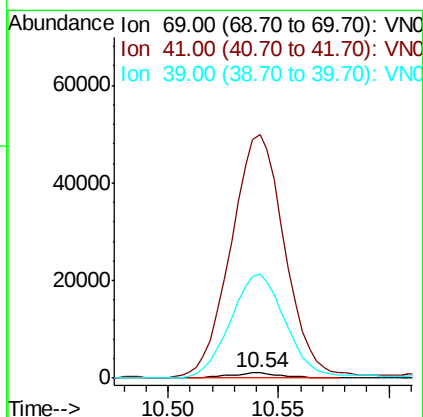
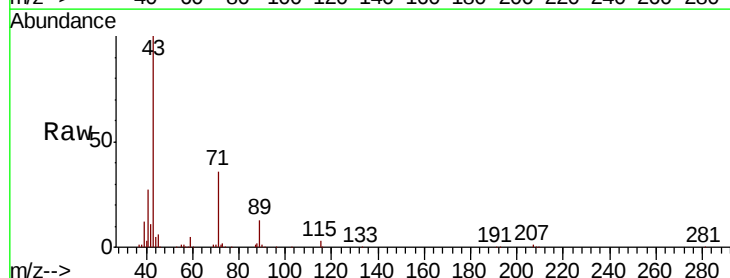
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.4	36.6#
39	41.9	43.1	64.7#

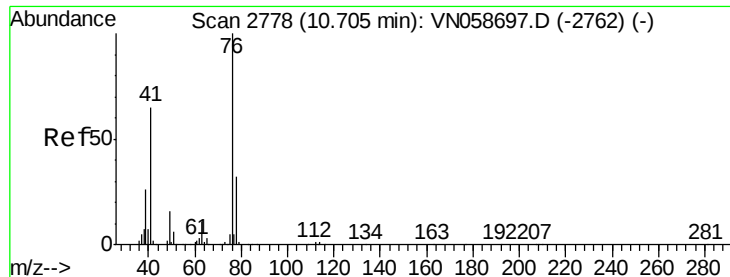


#56

Ethyl methacrylate
 Concen: 0.303 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN058833.D
 Acq: 17 Oct 2019 17:21

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4517.0	56.8	85.2#
39	1982.8	32.5	48.7#





#57

1,3-Dichloropropane

Concen: 0.918 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

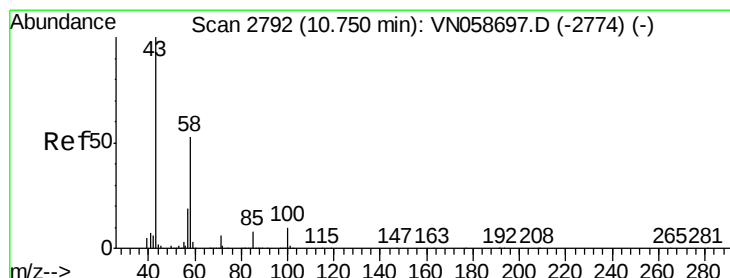
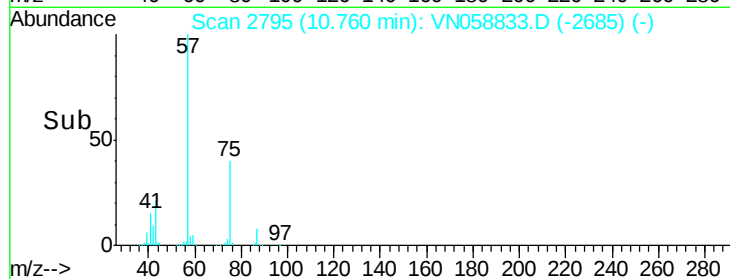
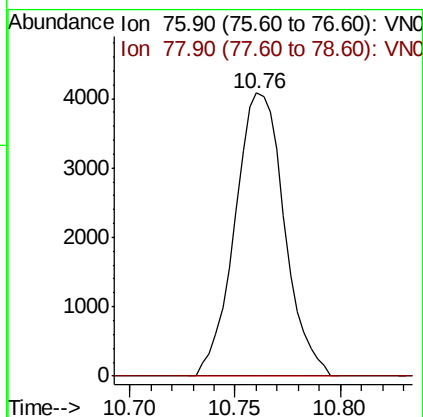
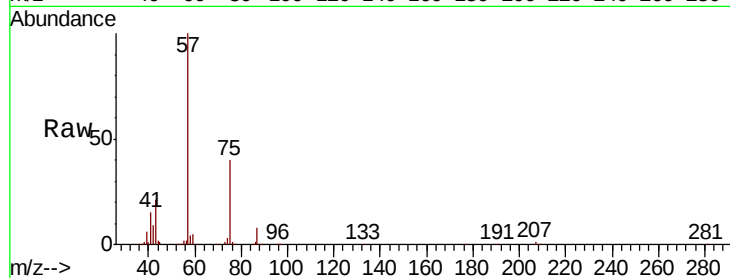
ClientSampleId :

Tot Ion: 76 Resp: 6650

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 22.682 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058833.D

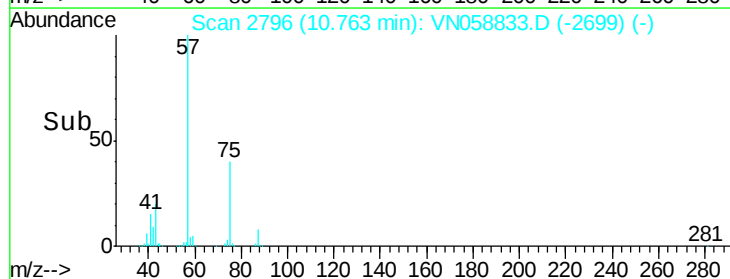
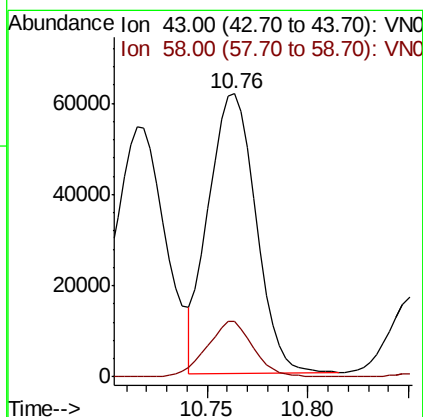
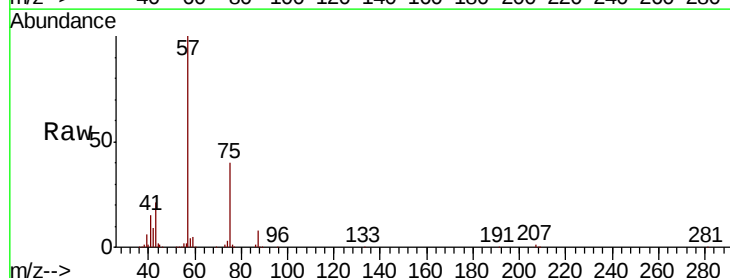
Acq: 17 Oct 2019 17:21

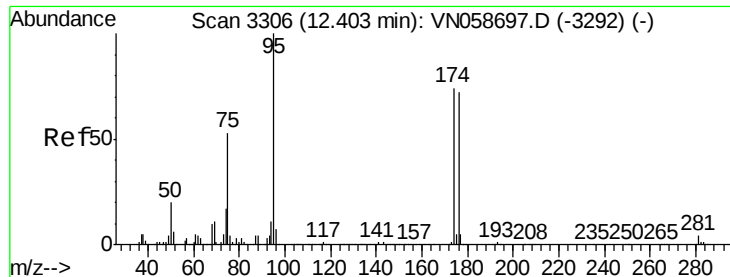
Tgt Ion: 43 Resp: 100316

Ion Ratio Lower Upper

43 100

58 19.2 26.1 78.3#





#62

4-Bromofluorobenzene

Concen: 44.415 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

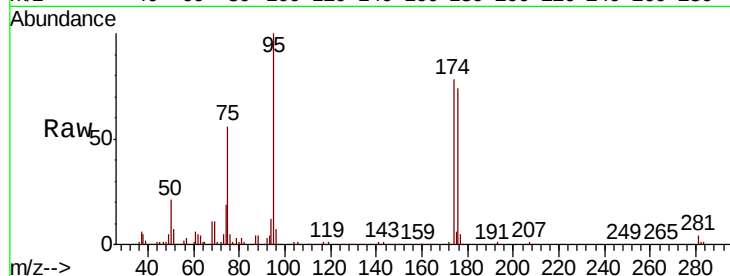
Tot Ion: 95 Resp: 242932

Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.4

176 73.8 0.0 146.8



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

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

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

12.41

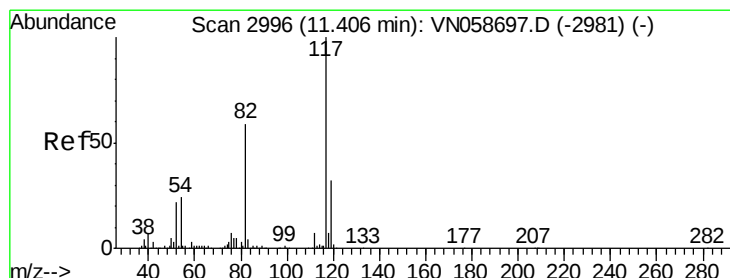
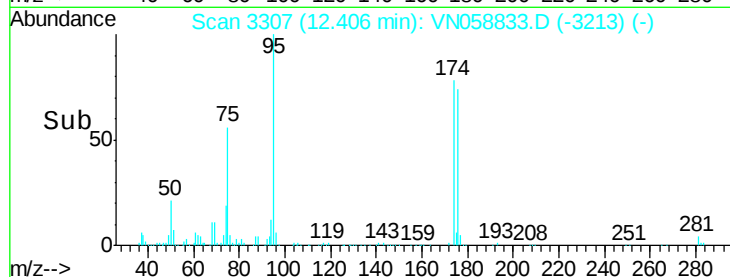
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

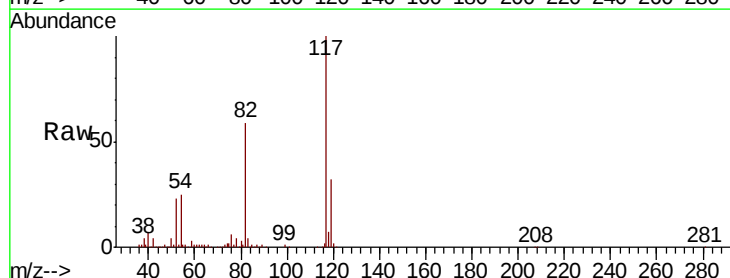
Tgt Ion: 117 Resp: 545073

Ion Ratio Lower Upper

117 100

82 58.5 47.0 70.4

119 31.9 25.4 38.2



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

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

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

11.41

400000

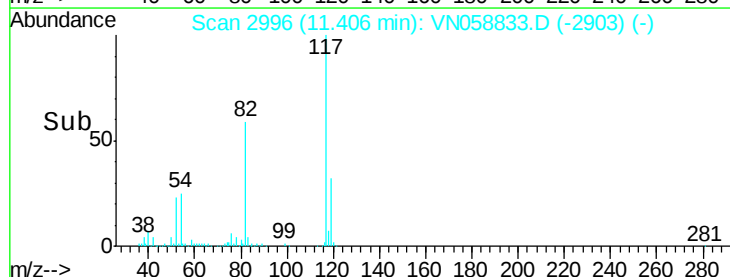
300000

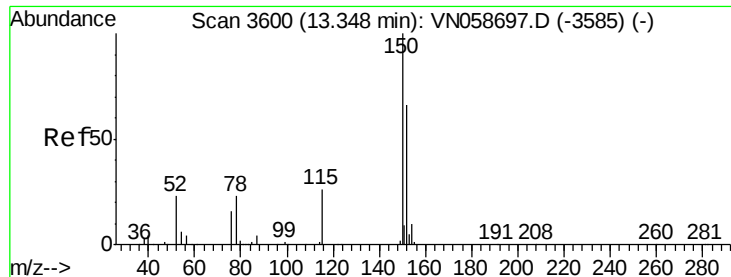
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

ClientSampleId :

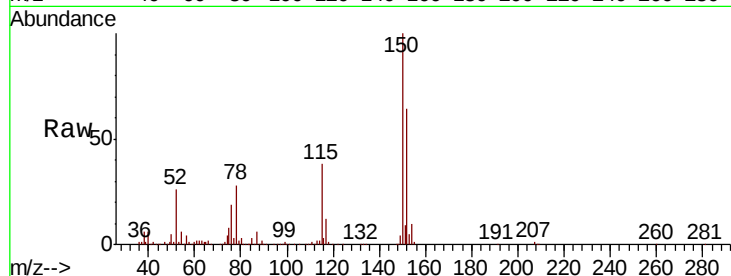
Tot Ion:152 Resp: 209520

Ion Ratio Lower Upper

152 100

115 60.0 30.4 91.2

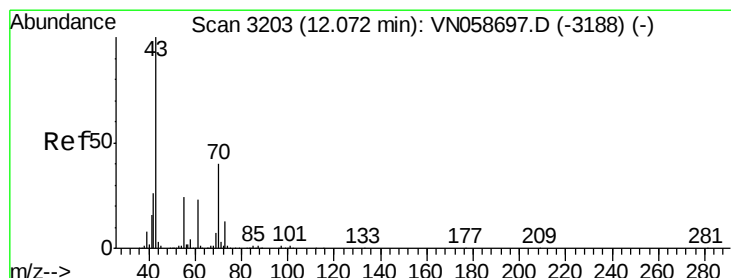
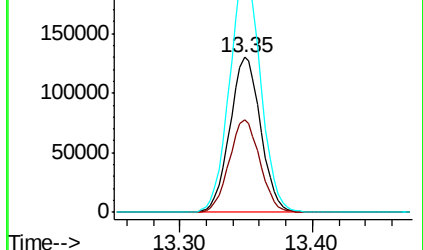
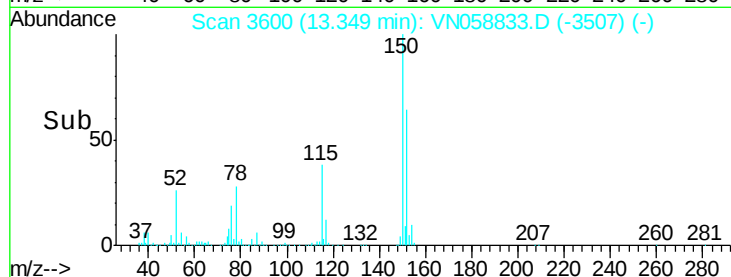
150 156.6 0.0 345.4



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: 0.735 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Tgt Ion: 43 Resp: 5006

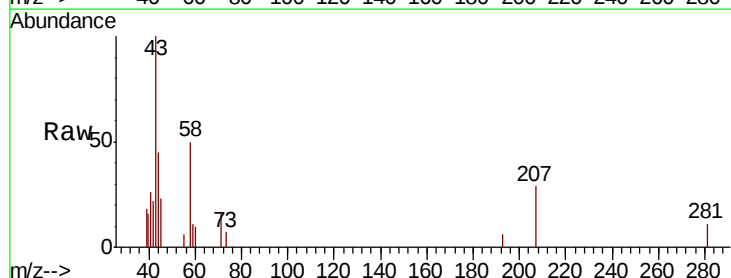
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 2.9 19.6 29.4#

61 0.0 18.6 28.0#

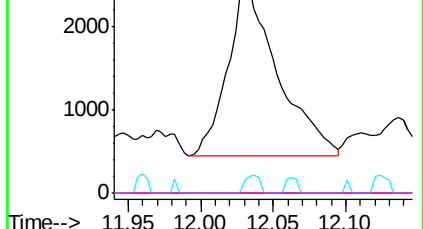
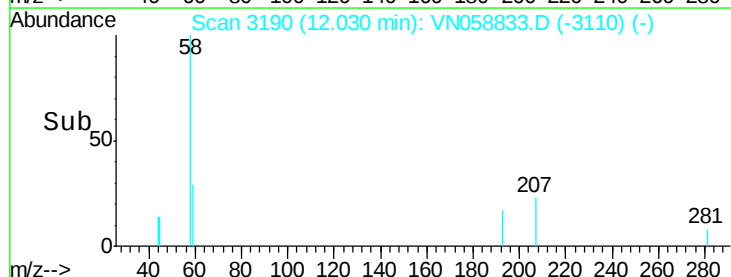


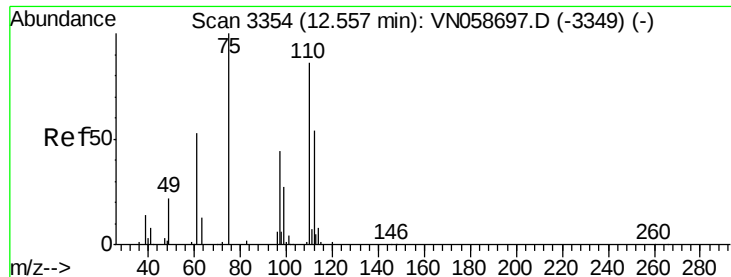
Abundance Ion 43.00 (42.70 to 43.70): V

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: 29.127 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Instrument :

MSVOA_N

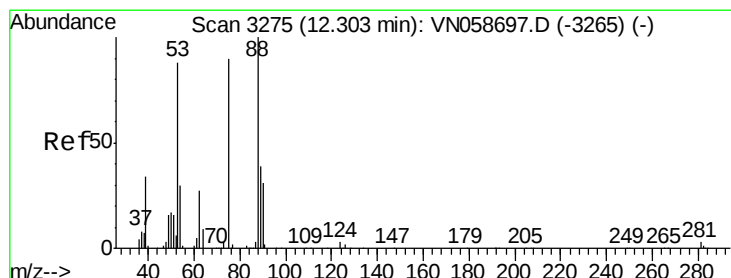
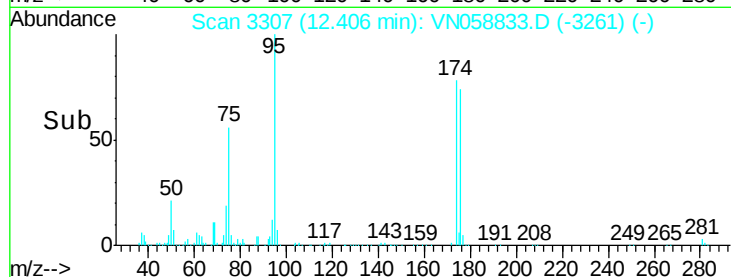
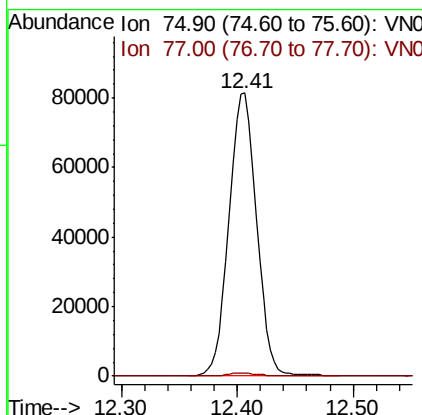
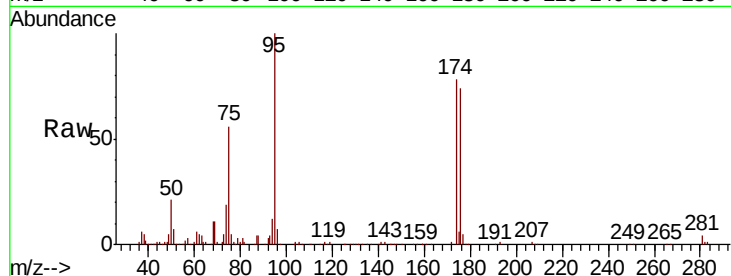
ClientSampleId :

Tot Ion: 75 Resp: 133879

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.022 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058833.D

Acq: 17 Oct 2019 17:21

Tgt Ion: 75 Resp: 133879

Ion Ratio Lower Upper

75 100

53 0.2 78.4 117.6#

89 0.1 34.9 52.3#

