

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058835.D
 Acq On : 17 Oct 2019 18:05
 Operator : JC/SP
 Sample : K5393-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 18 01:30:04 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	361514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	575561	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	531701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	200771	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	271947	53.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.46%	
35) Dibromofluoromethane	7.57	113	195260	54.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.84%	
50) Toluene-d8	10.08	98	746421	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.41	95	236528	43.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.90%	

Target Compounds

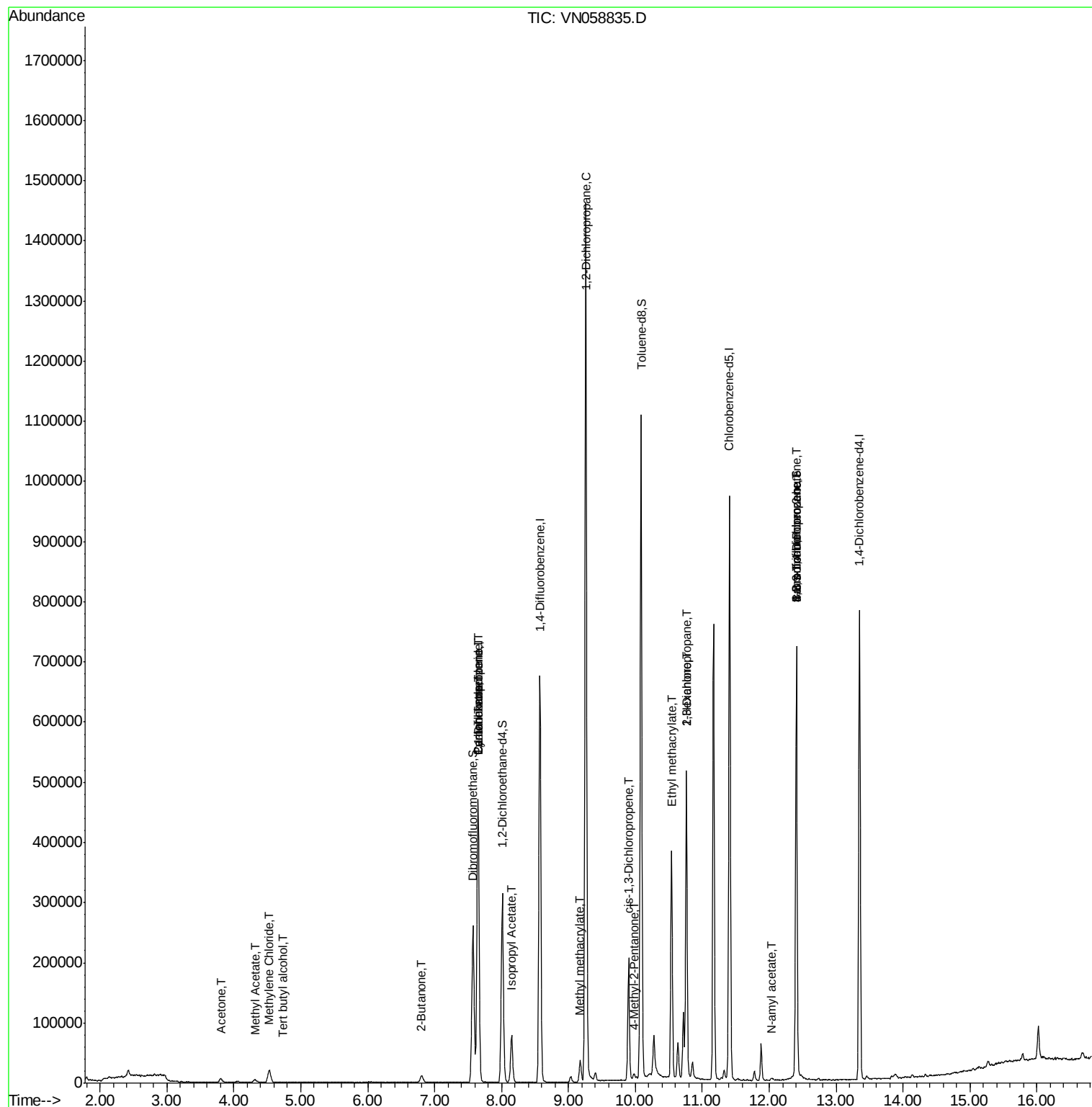
						Qvalue
11) Tert butyl alcohol	4.75	59	405	0.494	ug/l #	72
16) Acetone	3.80	43	12279	5.860	ug/l	91
18) Methyl Acetate	4.31	43	10121	1.904	ug/l #	78
20) Methylene Chloride	4.52	84	15510	3.542	ug/l	97
25) 2-Butanone	6.80	43	1282	0.423	ug/l #	50
31) Cyclohexane	7.65	56	8886	1.197	ug/l #	26
36) 1,1-Dichloropropene	7.65	75	31979	5.495	ug/l #	50
38) Carbon Tetrachloride	7.65	117	37245	6.567	ug/l #	16
43) Isopropyl Acetate	8.15	43	90604	9.037	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1834	0.410	ug/l #	45
48) Methyl methacrylate	9.17	41	5989	1.318	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	5085	0.903	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	33318	4.737	ug/l #	69
56) Ethyl methacrylate	10.54	69	1768	0.289	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4925	0.691	ug/l #	42
59) 2-Hexanone	10.76	43	77894	17.901	ug/l #	53
71) Bromoform	12.41	173	961	0.328	ug/l #	1
74) N-amyl acetate	12.03	43	2199	0.337	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	127863	29.031	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	127863	77.764	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# 1828

Delta R.T. 0.00 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :

MSVOA_N

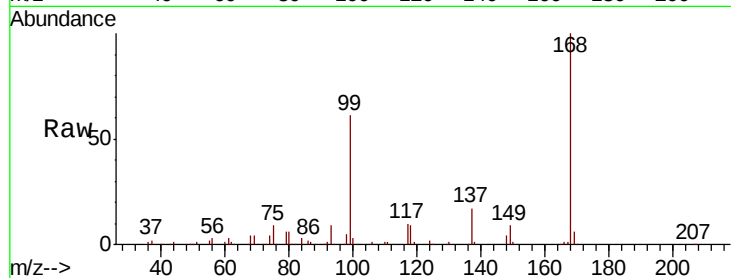
ClientSampled :

Tot Ion:168 Resp: 361514

Ion Ratio Lower Upper

168 100

99 61.2 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

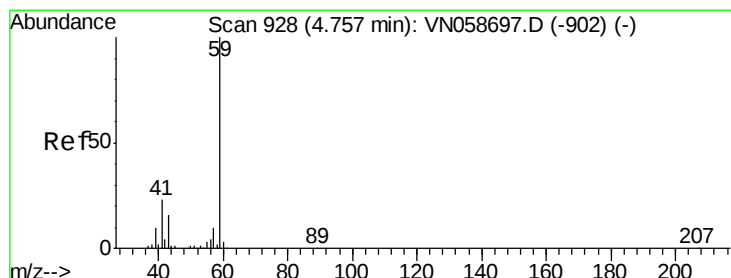
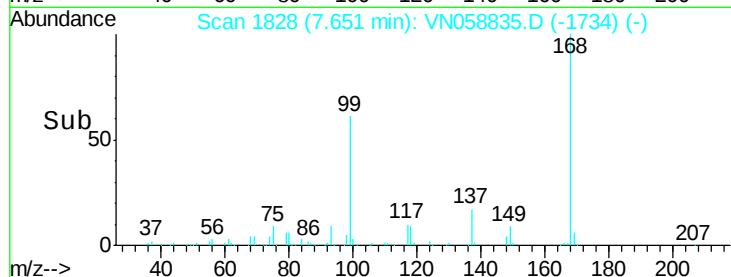
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.494 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058835.D

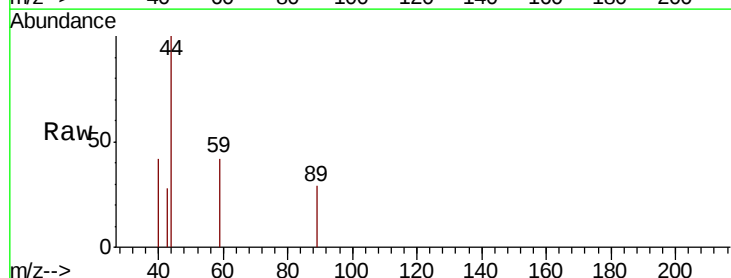
Acq: 17 Oct 2019 18:05

Tgt Ion: 59 Resp: 405

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

4.75

300

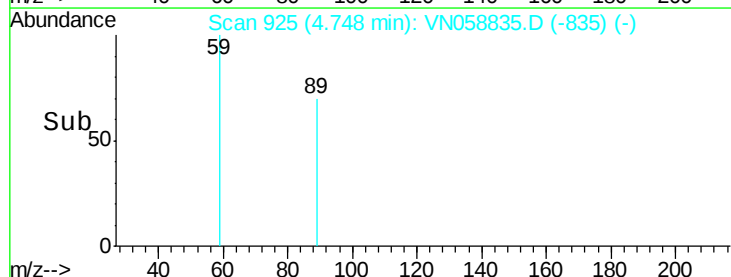
200

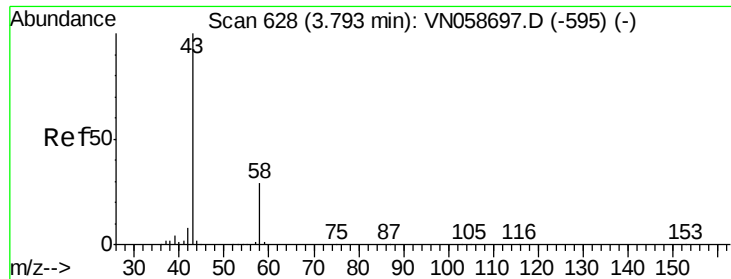
100

0

4.74 4.76 4.78

Time-->





#16

Acetone

Concen: 5.860 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :

MSVOA_N

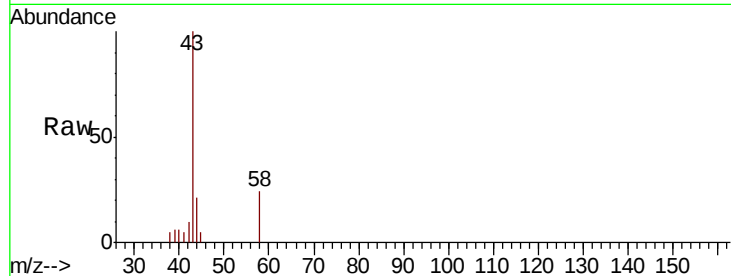
ClientSampled :

Tot Ion: 43 Resp: 12279

Ion Ratio Lower Upper

43 100

58 24.1 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

5000

4000

3000

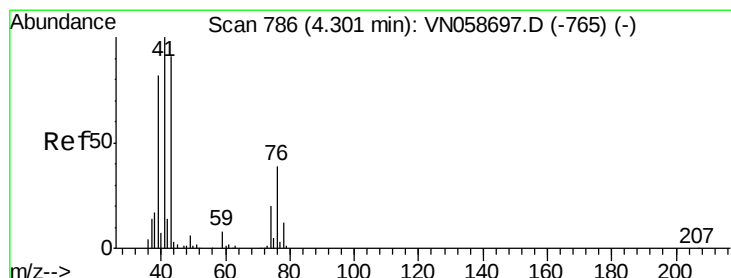
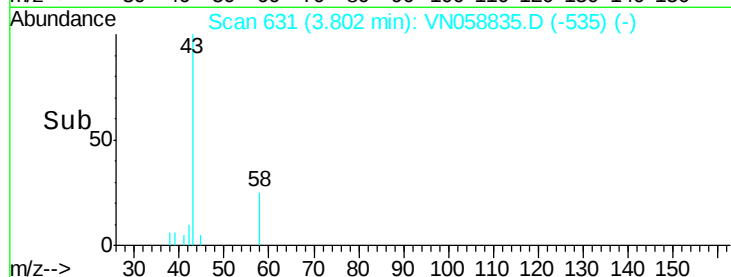
2000

1000

0

Time-->

3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 1.904 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058835.D

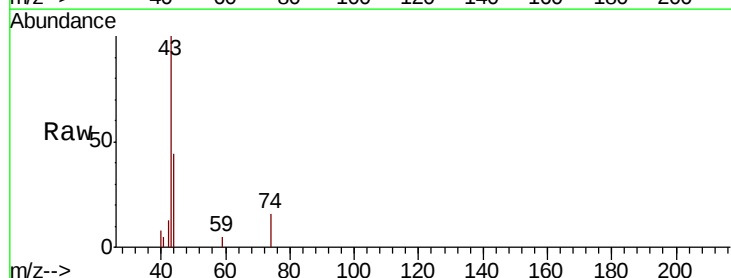
Acq: 17 Oct 2019 18:05

Tgt Ion: 43 Resp: 10121

Ion Ratio Lower Upper

43 100

74 11.2 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

3000

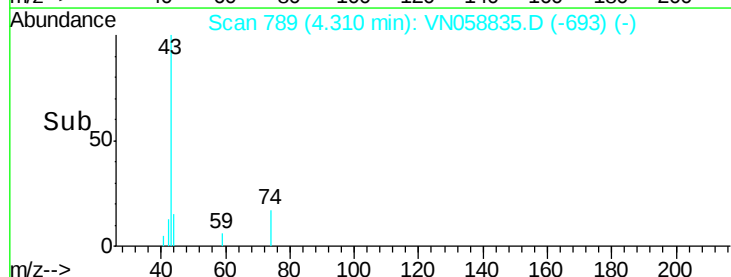
2000

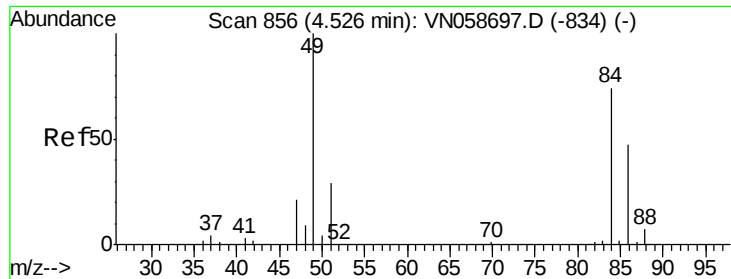
1000

0

Time-->

4.20 4.30 4.40

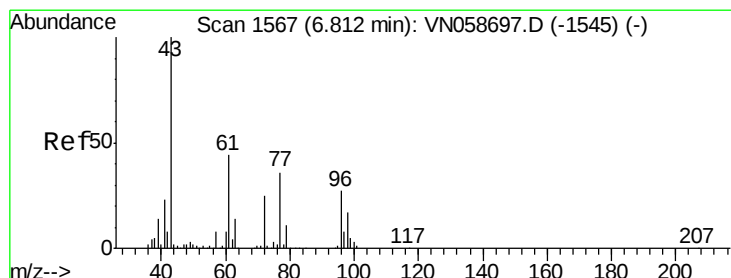
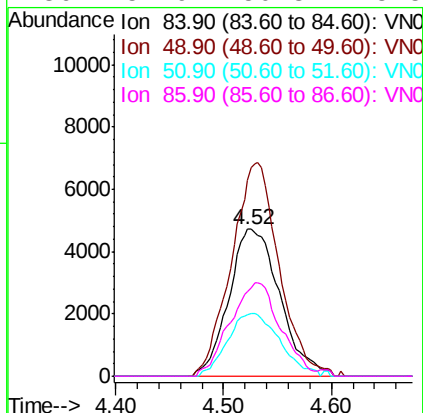
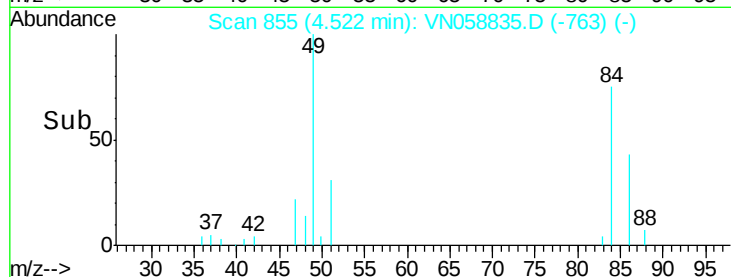
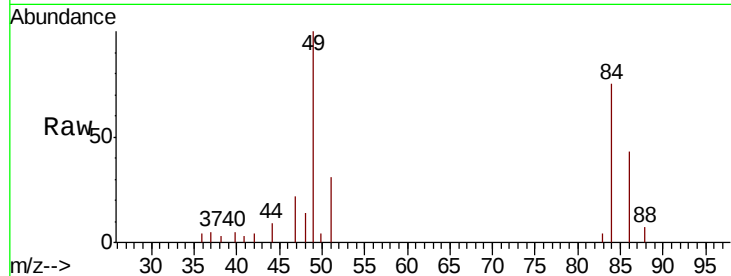




#20
Methvlene Chloride
Concen: 3.542 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

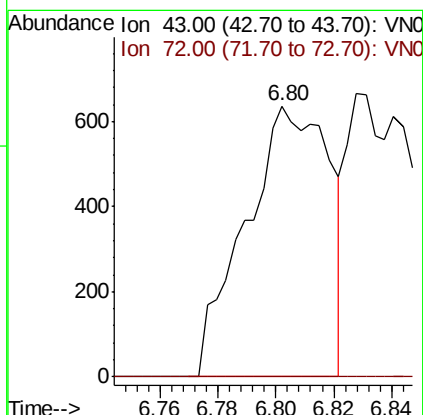
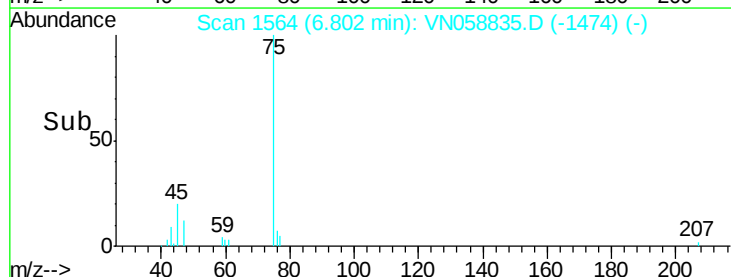
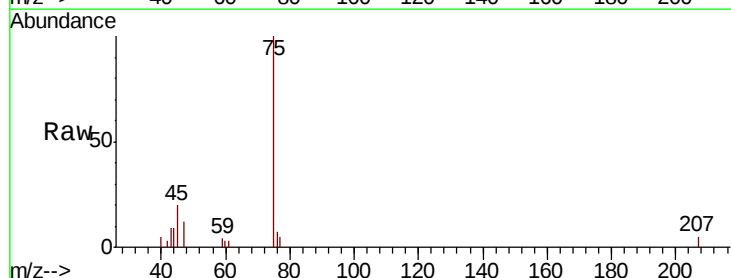
Instrument :
MSVOA_N
ClientSampled :

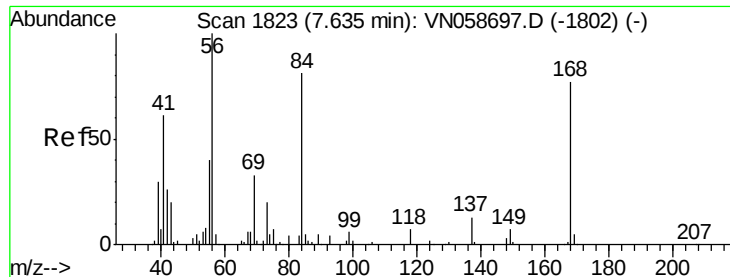
Tot Ion: 84 Resp: 15510
Ion Ratio Lower Upper
84 100
49 133.0 107.6 161.4
51 41.9 31.4 47.0
86 57.9 50.3 75.5



#25
2-Butanone
Concen: 0.423 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

Tgt Ion: 43 Resp: 1282
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#





#31

Cyclohexane

Concen: 1.197 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.02 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :
MSVOA_N
ClientSampleId :

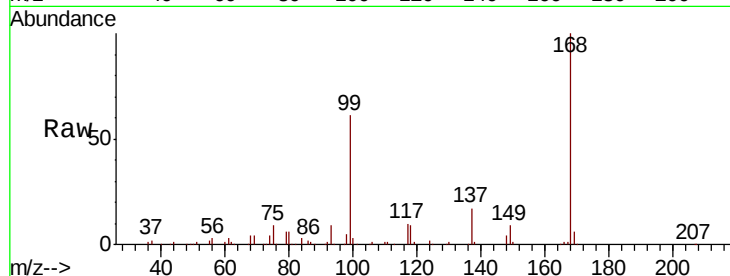
Tot Ion: 56 Resp: 8886

Ion Ratio Lower Upper

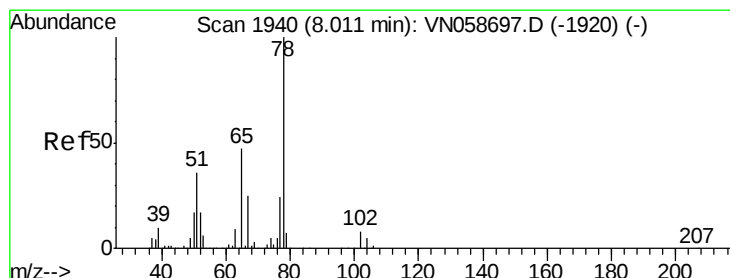
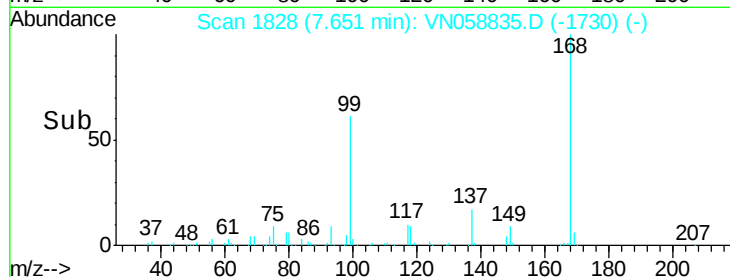
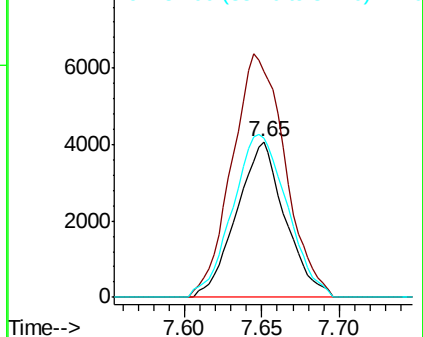
56 100

69 145.0 26.2 39.4#

84 102.4 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: 53.732 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058835.D

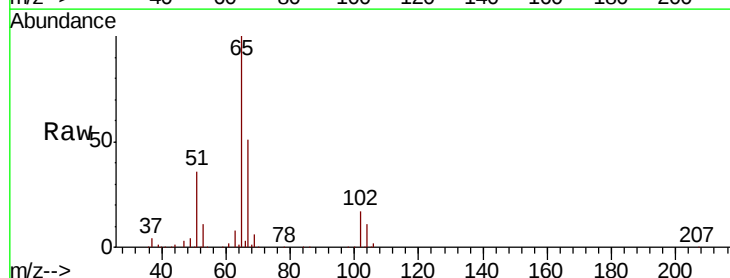
Acq: 17 Oct 2019 18:05

Tgt Ion: 65 Resp: 271947

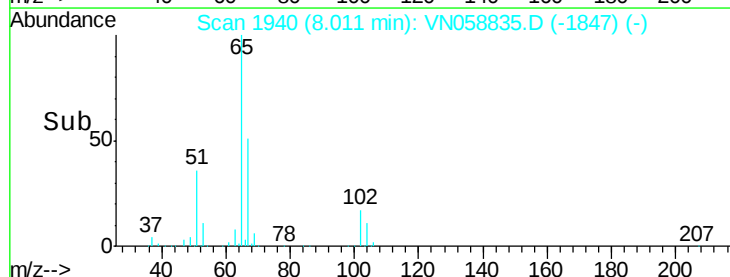
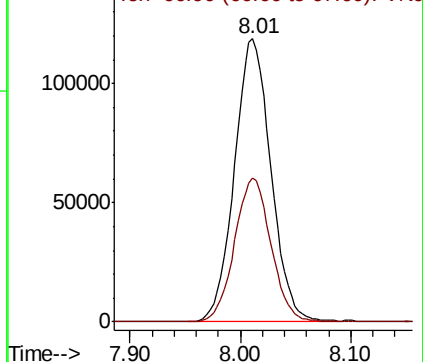
Ion Ratio Lower Upper

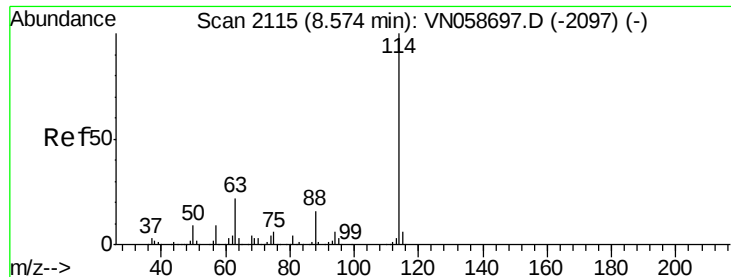
65 100

67 50.8 0.0 103.8



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

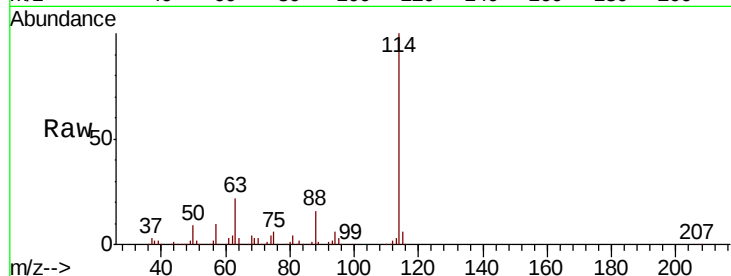




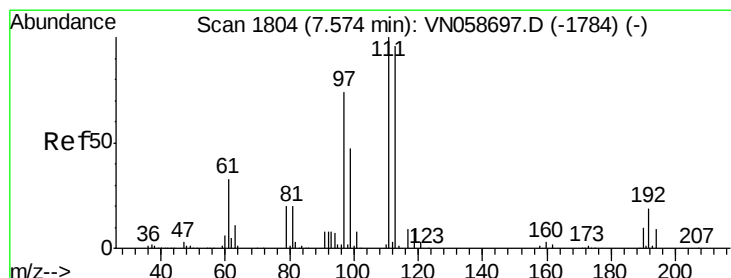
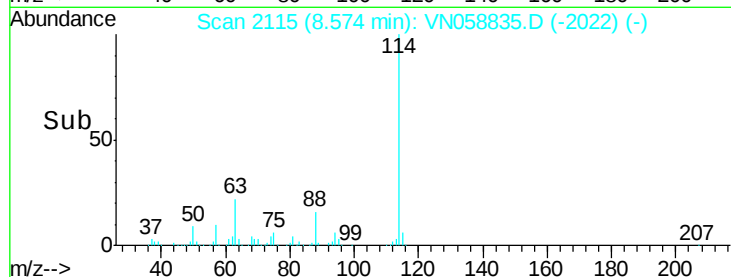
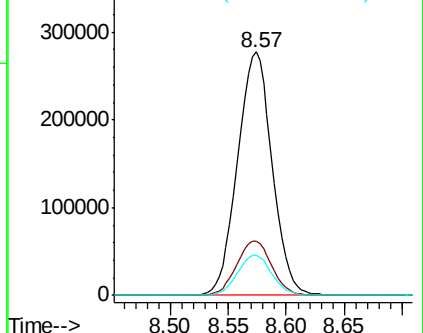
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058835.D
 Acq: 17 Oct 2019 18:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.8
88	16.4	0.0	32.0

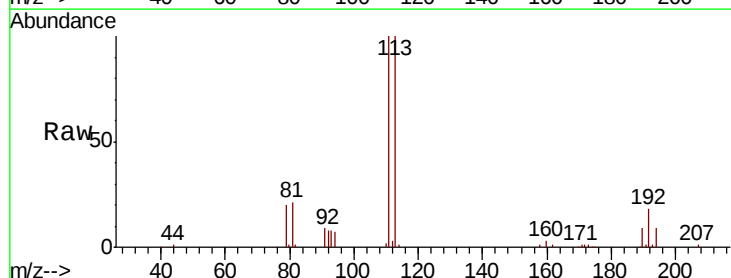


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

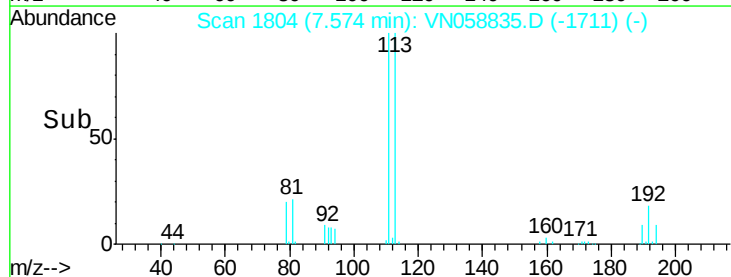
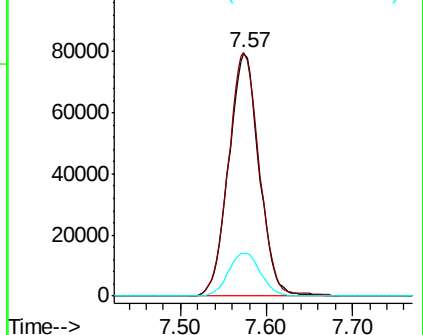


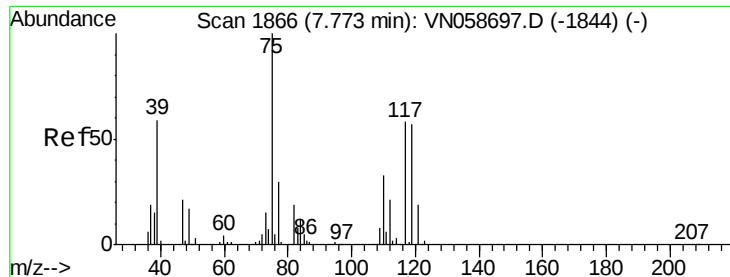
#35
 Dibromofluoromethane
 Concen: 54.924 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058835.D
 Acq: 17 Oct 2019 18:05

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.3	123.5
192	18.7	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

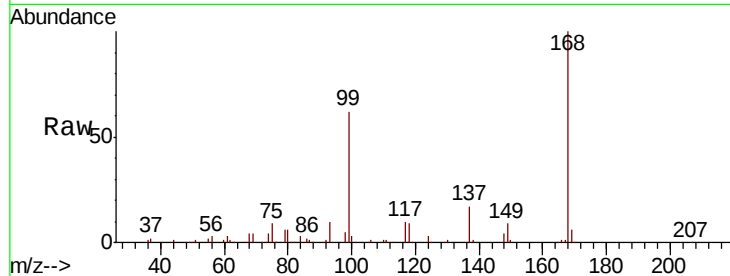




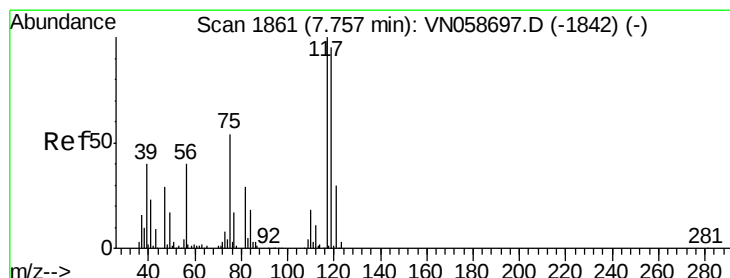
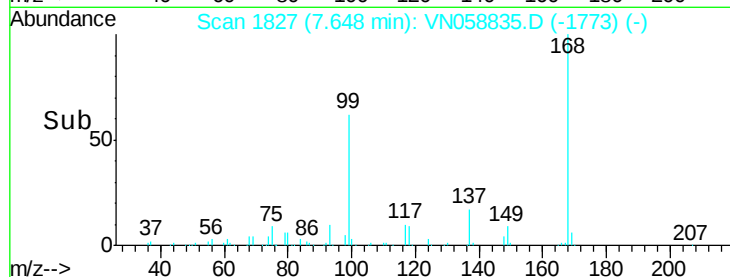
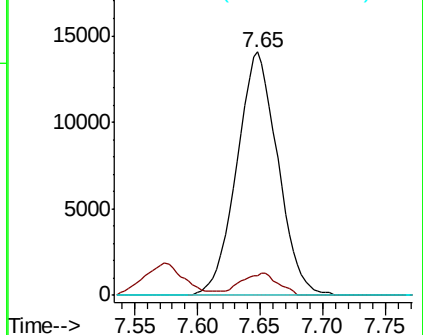
#36
 1,1-Dichloropropene
 Concen: 5.495 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058835.D
 Acq: 17 Oct 2019 18:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.6	49.8#
77	0.0	24.6	37.0#

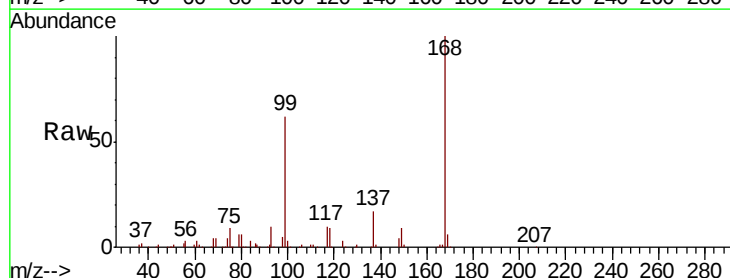


Abundance Ion 74.90 (74.60 to 75.60): VN058835.D (-1773) (-)
 Ion 109.90 (109.60 to 110.60): VN058835.D (-1773) (-)
 Ion 76.90 (76.60 to 77.60): VN058835.D (-1773) (-)

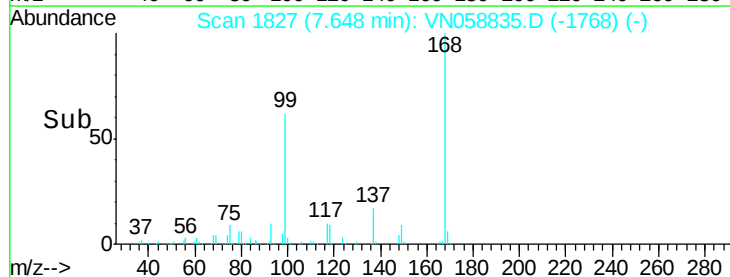
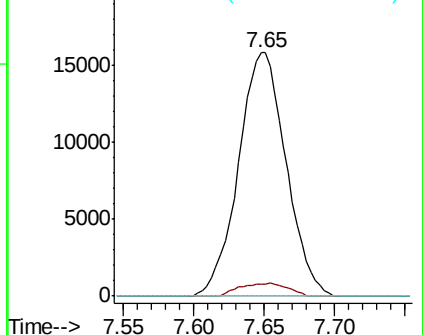


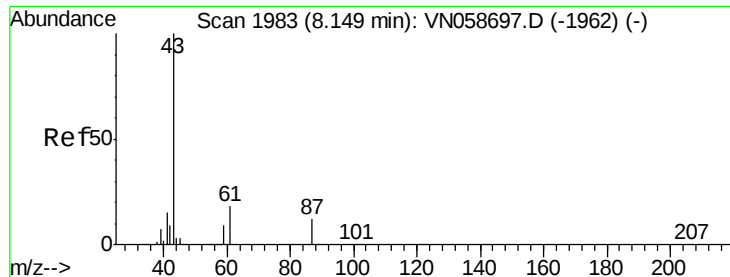
#38
 Carbon Tetrachloride
 Concen: 6.567 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058835.D
 Acq: 17 Oct 2019 18:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	75.7	113.5#
121	0.0	23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): VN058835.D (-1768) (-)
 Ion 118.80 (118.50 to 119.50): VN058835.D (-1768) (-)
 Ion 120.80 (120.50 to 121.50): VN058835.D (-1768) (-)





#43

Isopropyl Acetate

Concen: 9.037 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :

MSVOA_N

ClientSampled :

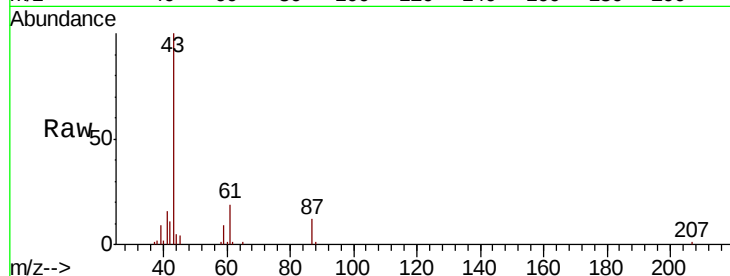
Tot Ion: 43 Resp: 90604

Ion Ratio Lower Upper

43 100

61 18.3 20.3 30.5#

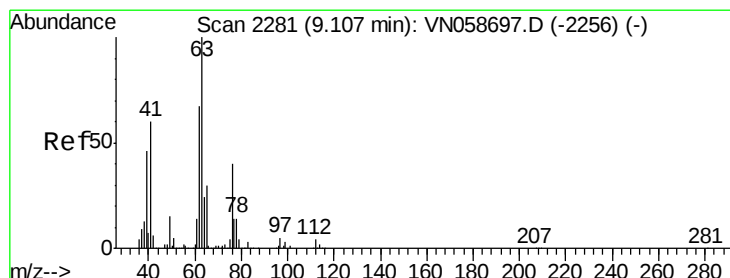
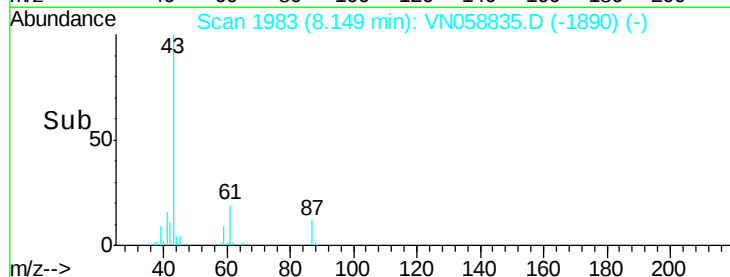
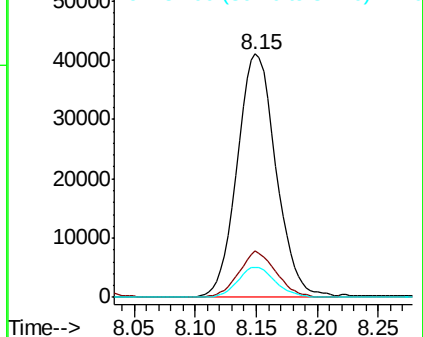
87 11.9 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.410 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058835.D

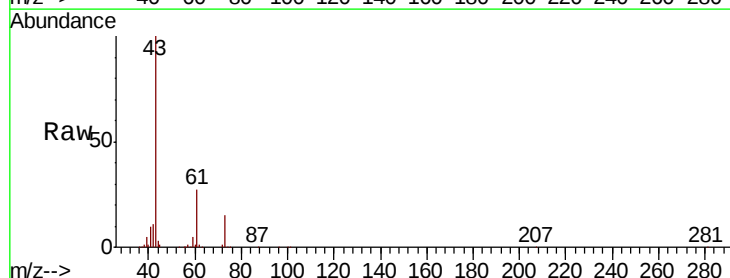
Acq: 17 Oct 2019 18:05

Tgt Ion: 63 Resp: 1834

Ion Ratio Lower Upper

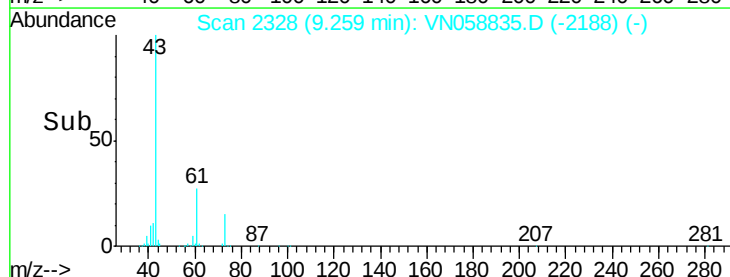
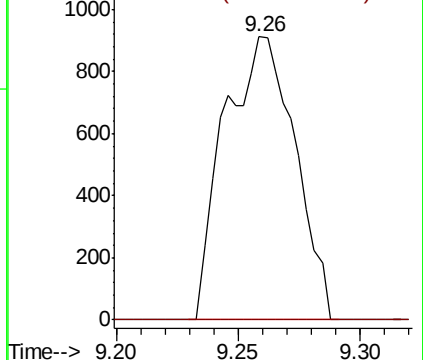
63 100

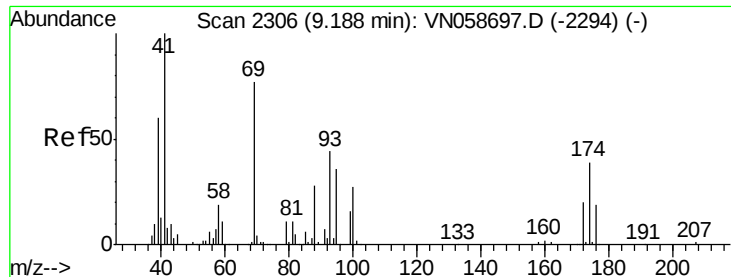
65 0.0 24.1 36.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

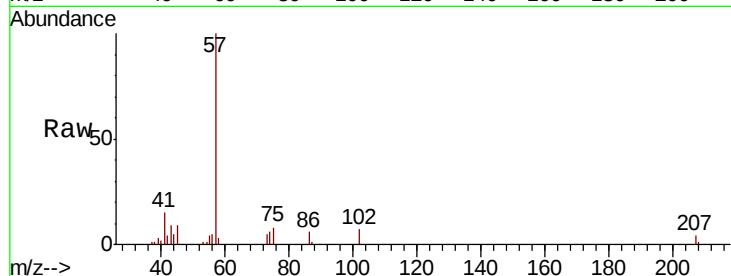




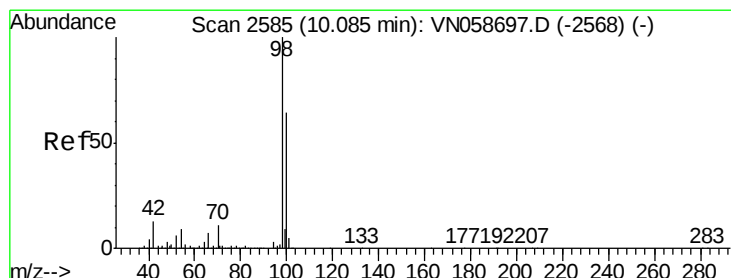
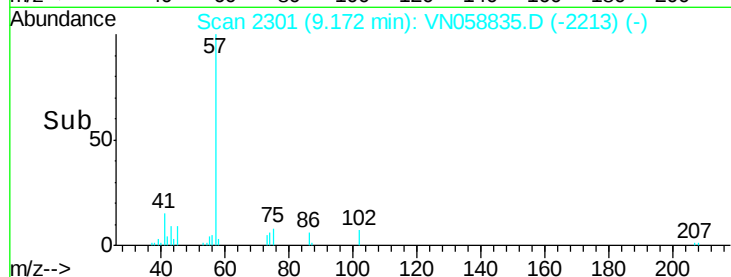
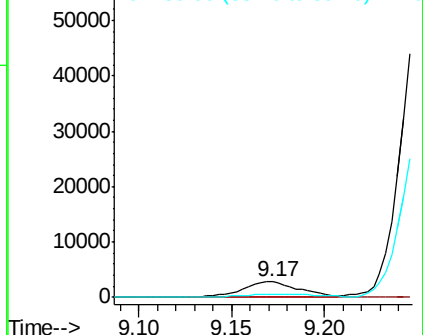
#48
Methvl methacrylate
Concen: 1.318 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 5989
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.2#
39 0.0 48.9 73.3#

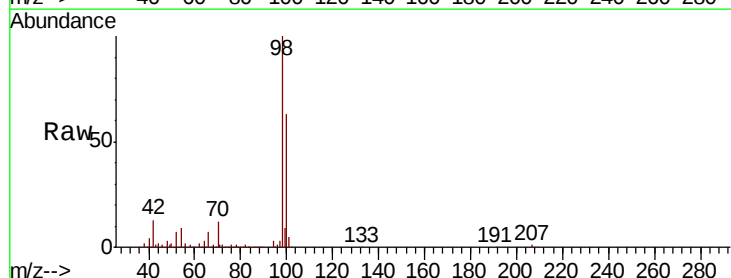


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

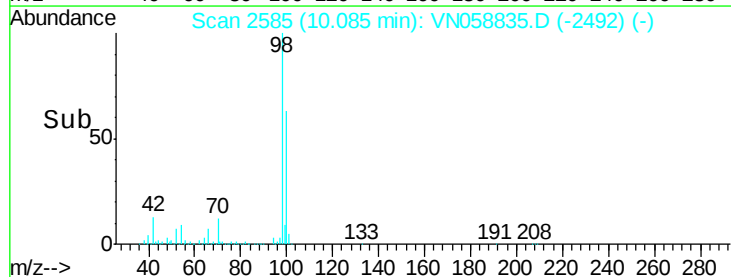
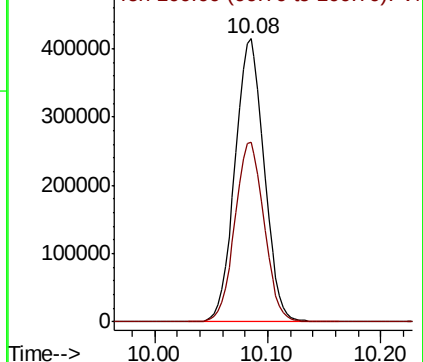


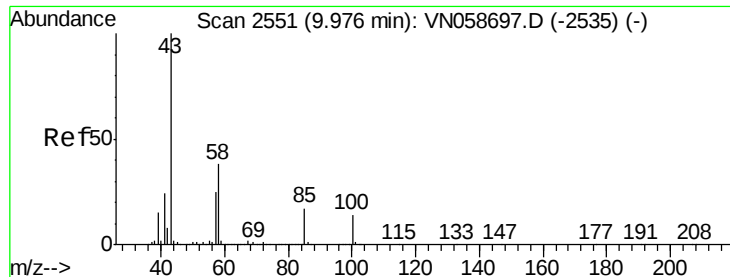
#50
Toluene-d8
Concen: 52.504 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

Tgt Ion: 98 Resp: 746421
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: 0.903 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :

MSVOA_N

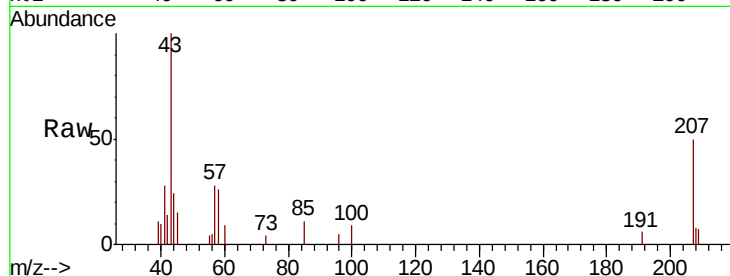
ClientSampled :

Tot Ion: 43 Resp: 5085

Ion Ratio Lower Upper

43 100

58 43.2 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN058835.D (-2458) (-)

Ion 58.00 (57.70 to 58.70): VN058835.D (-2458) (-)

12000

10000

8000

6000

4000

2000

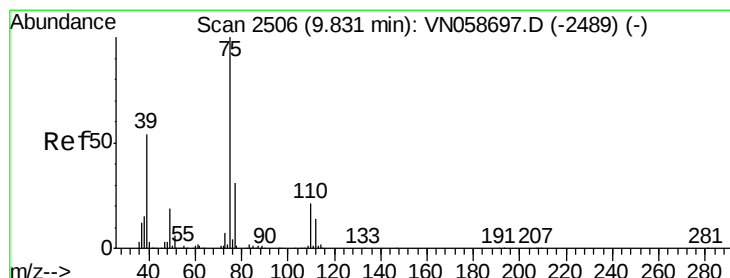
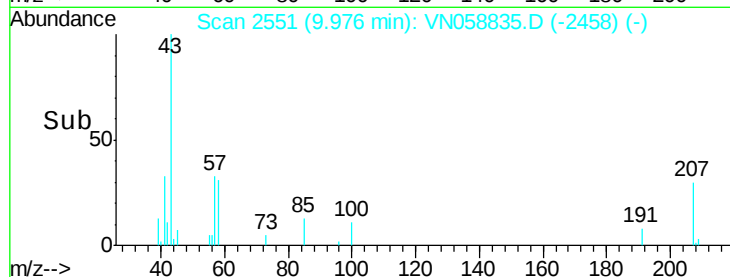
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.737 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

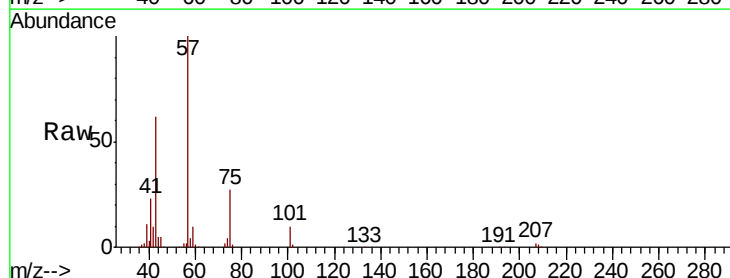
Tgt Ion: 75 Resp: 33318

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

39 42.0 43.1 64.7#



Abundance Ion 74.90 (74.60 to 75.60): VN058835.D (-2413) (-)

Ion 76.90 (76.60 to 77.60): VN058835.D (-2413) (-)

Ion 39.00 (38.70 to 39.70): VN058835.D (-2413) (-)

25000

20000

15000

10000

5000

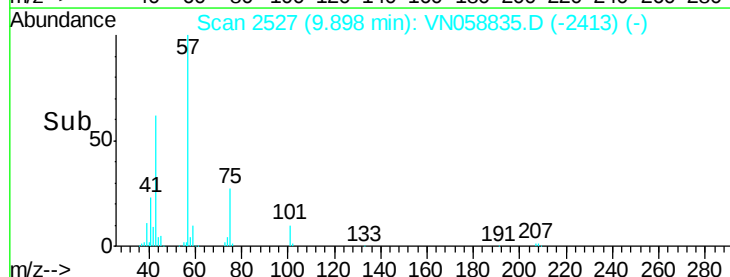
0

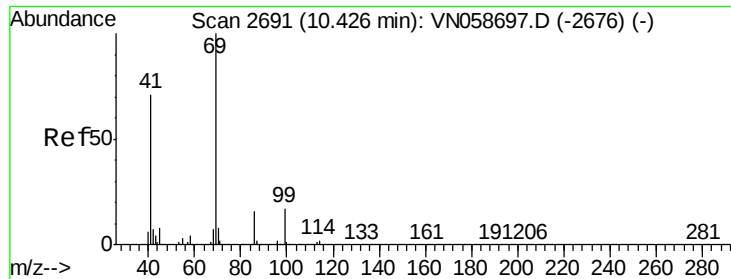
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.289 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :

MSVOA_N

ClientSampled :

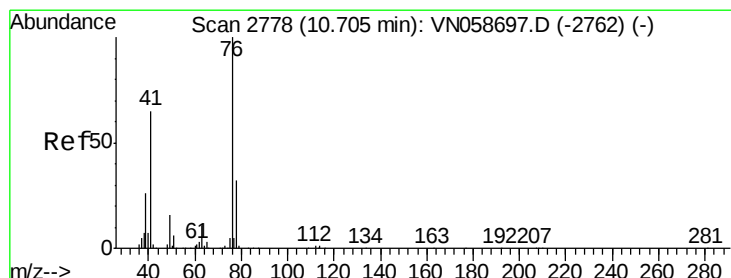
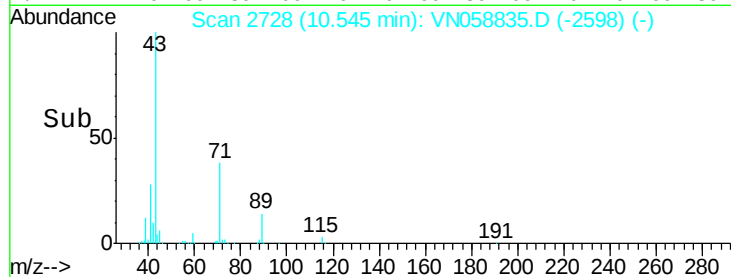
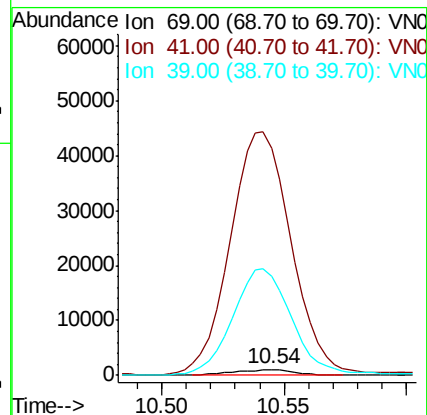
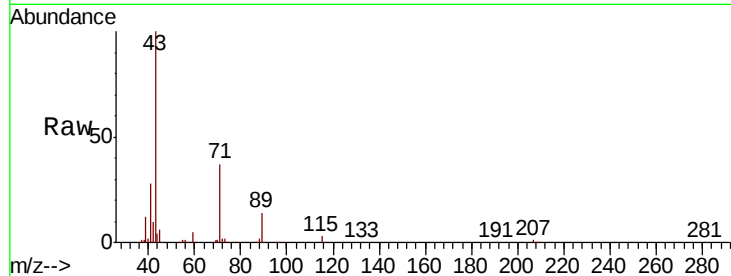
Tot Ion: 69 Resp: 1768

Ion Ratio Lower Upper

69 100

41 4375.6 56.8 85.2#

39 1873.5 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.691 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058835.D

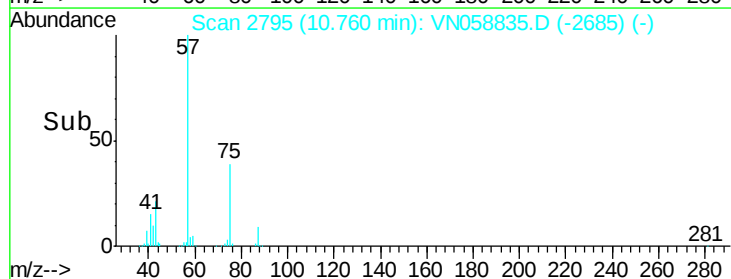
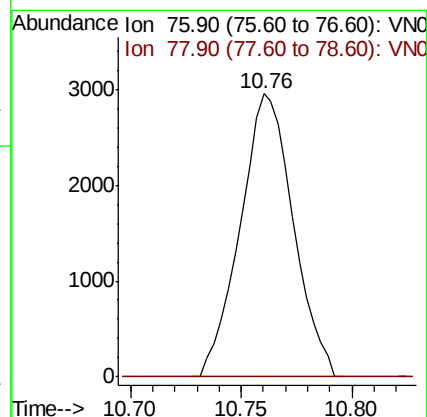
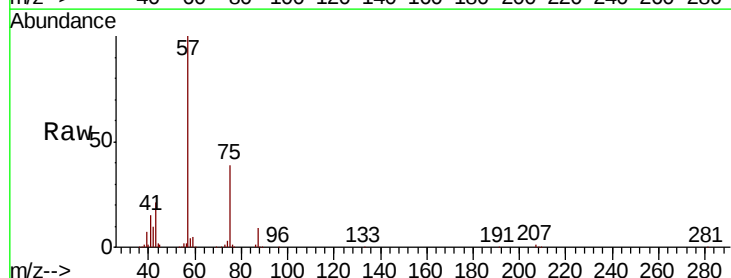
Acq: 17 Oct 2019 18:05

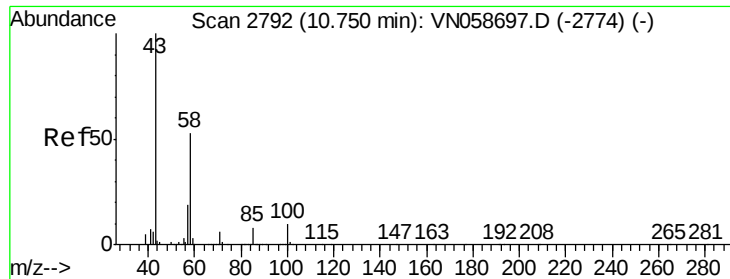
Tgt Ion: 76 Resp: 4925

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

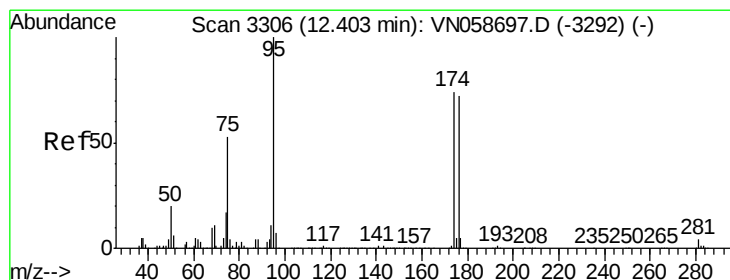
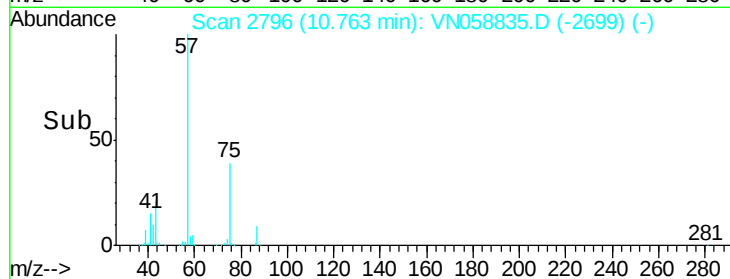
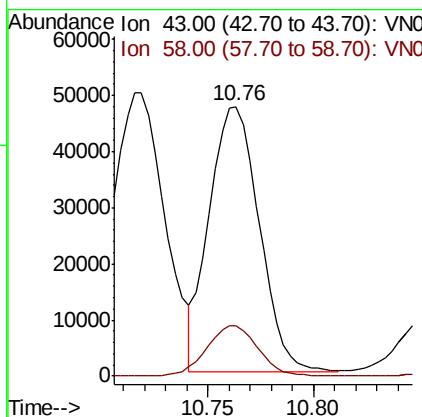
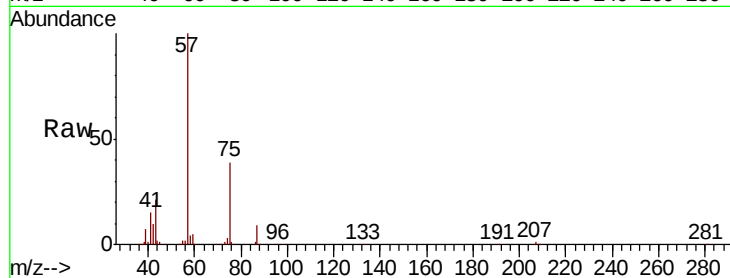




#59
2-Hexanone
Concen: 17.901 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

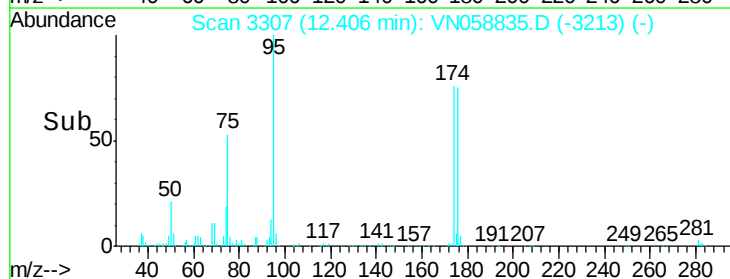
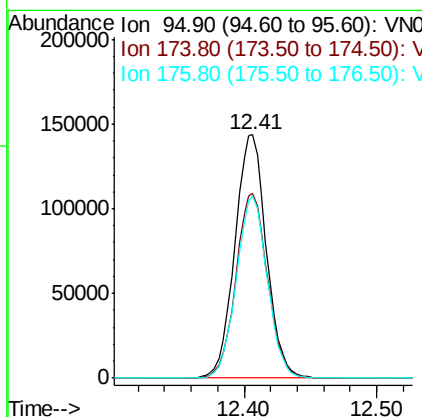
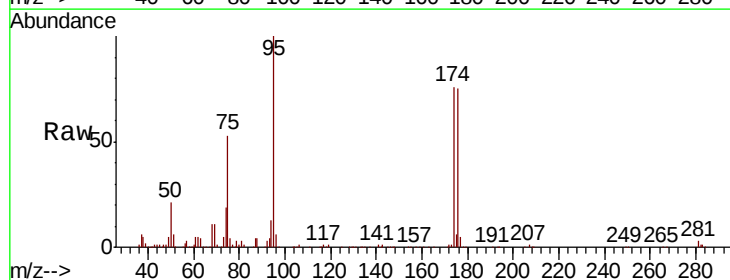
Instrument :
MSVOA_N
ClientSampled :

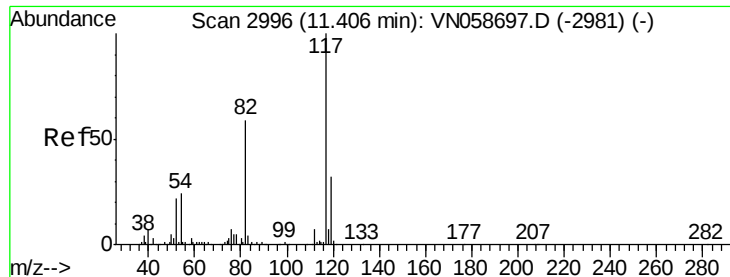
Tot Ion: 43 Resp: 77894
Ion Ratio Lower Upper
43 100
58 19.4 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 43.954 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

Tgt Ion: 95 Resp: 236528
Ion Ratio Lower Upper
95 100
174 76.3 0.0 150.4
176 73.7 0.0 146.8

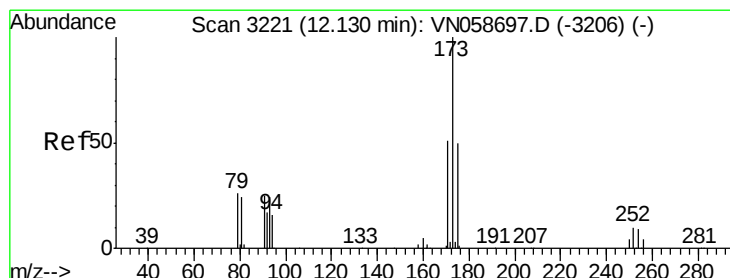
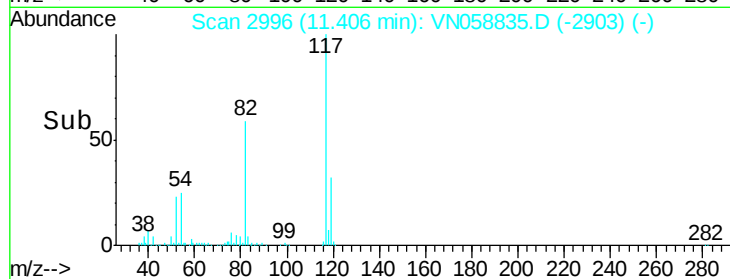
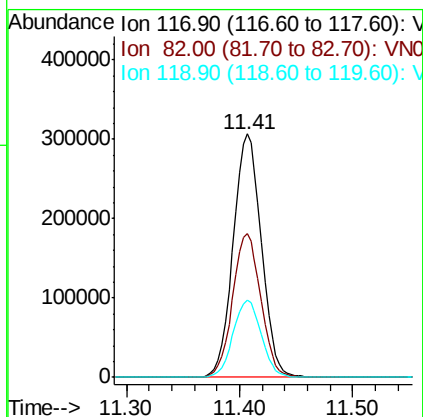
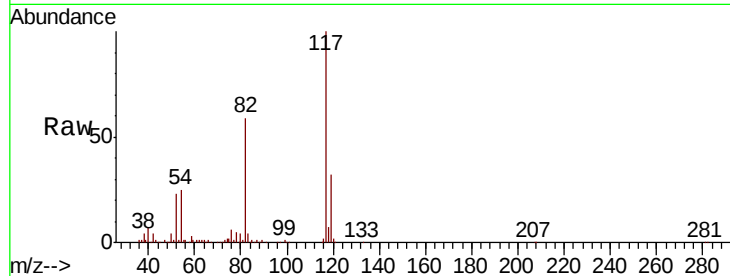




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

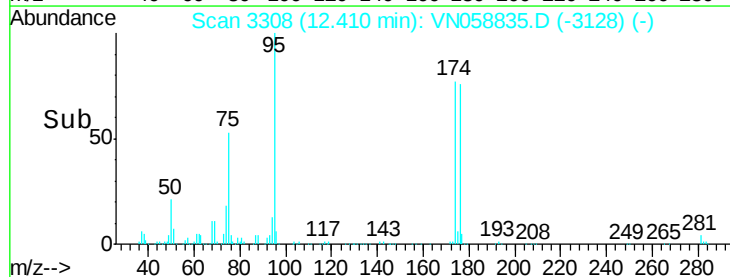
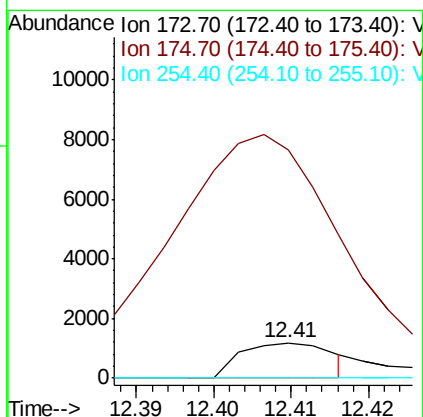
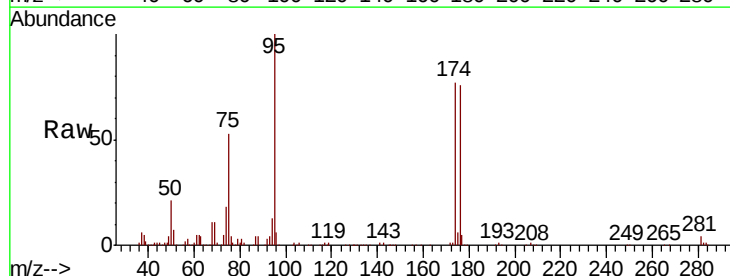
Instrument :
MSVOA_N
ClientSampleId :

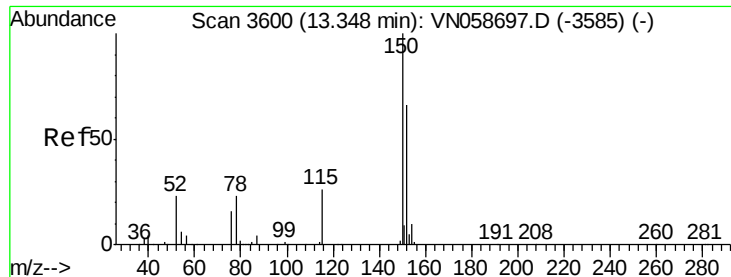
Tot Ion:117 Resp: 531701
Ion Ratio Lower Upper
117 100
82 59.1 47.0 70.4
119 31.6 25.4 38.2



#71
Bromoform
Concen: 0.328 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058835.D
Acq: 17 Oct 2019 18:05

Tgt Ion:173 Resp: 961
Ion Ratio Lower Upper
173 100
175 1191.6 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: VN058835.D

Acq: 17 Oct 2019 18:05

Instrument :

MSVOA_N

ClientSampled :

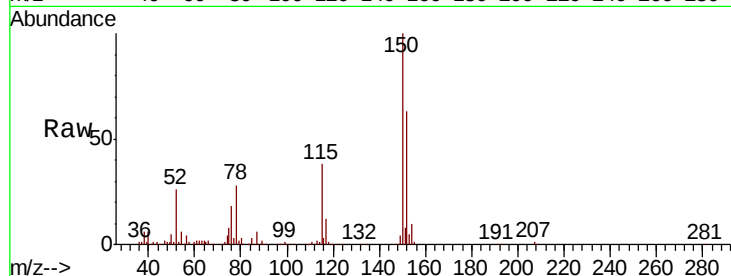
Tot Ion:152 Resp: 200771

Ion Ratio Lower Upper

152 100

115 60.0 30.4 91.2

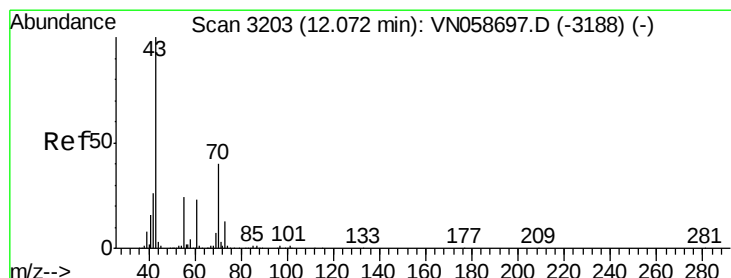
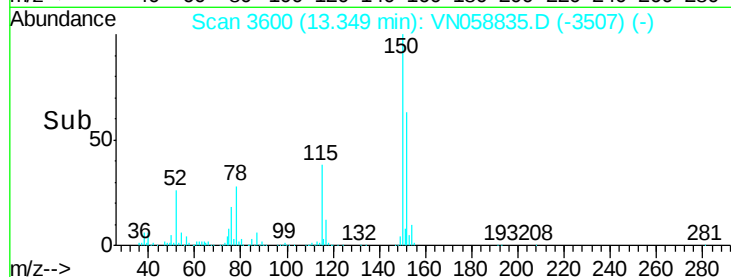
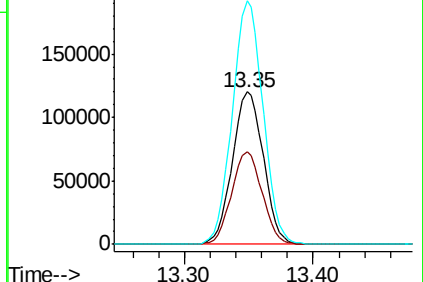
150 158.1 0.0 345.4



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: 0.337 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058835.D

Acq: 17 Oct 2019 18:05

Tgt Ion: 43 Resp: 2199

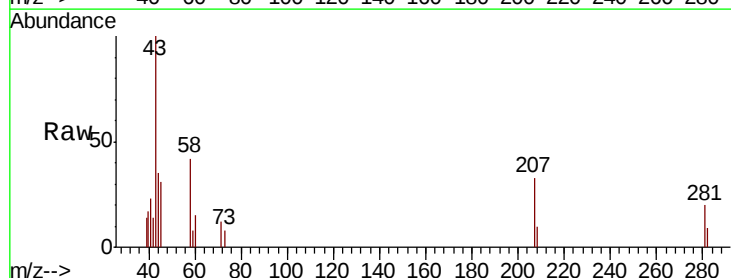
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 3.0 19.6 29.4#

61 0.0 18.6 28.0#

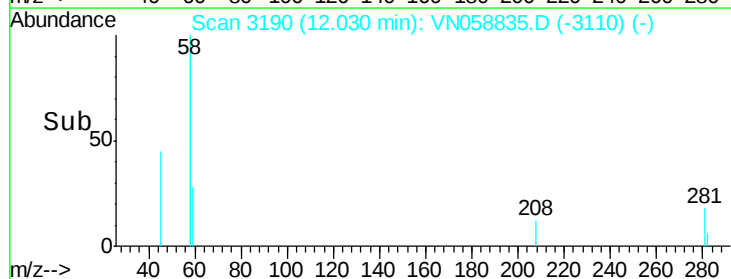
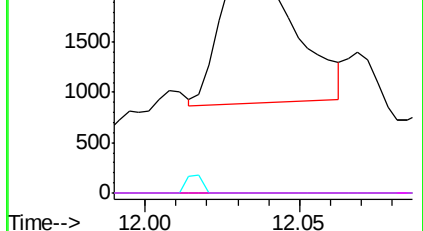


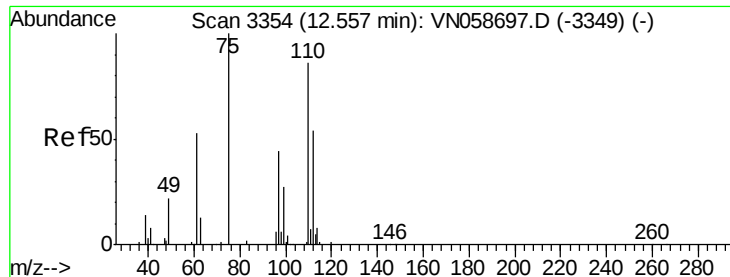
Abundance Ion 43.00 (42.70 to 43.70): V

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

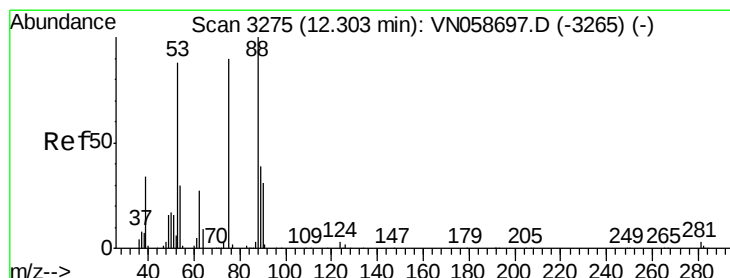
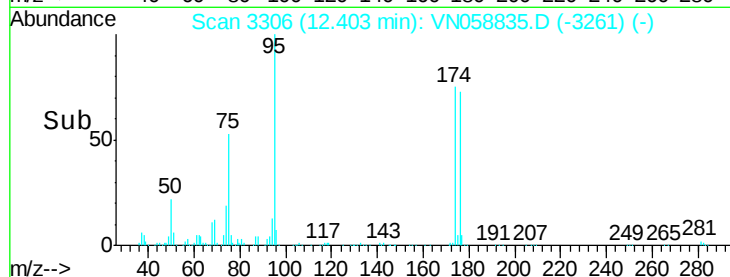
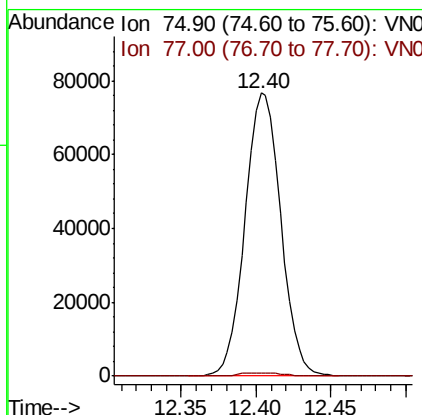
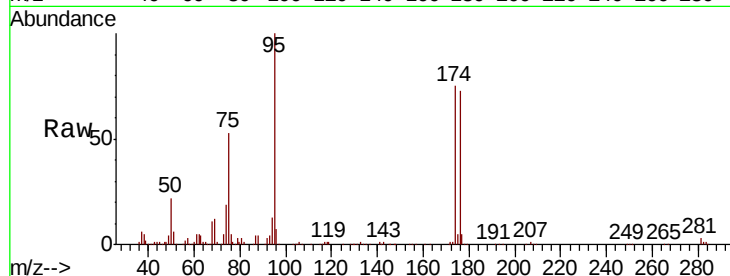




#76
 1,2,3-Trichloropropane
 Concen: 29.031 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN058835.D
 Acq: 17 Oct 2019 18:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 127863
 Ion Ratio Lower Upper
 75 100
 77 0.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.764 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN058835.D
 Acq: 17 Oct 2019 18:05

Tgt Ion: 75 Resp: 127863
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.4 117.6#
 89 0.0 34.9 52.3#

