

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101719\
 Data File : VN058834.D
 Acq On : 17 Oct 2019 17:43
 Operator : JC/SP
 Sample : K5393-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T-13-V1-(24)

Quant Time: Oct 18 01:29:50 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	381464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	612524	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	565982	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208383	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	286940	53.73	ug/l	0.00
Spiked Amount			Recovery	=	107.46%	
35) Dibromofluoromethane	7.57	113	203036	53.66	ug/l	0.00
Spiked Amount			Recovery	=	107.32%	
50) Toluene-d8	10.08	98	796483	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
62) 4-Bromofluorobenzene	12.41	95	251420	43.90	ug/l	0.00
Spiked Amount			Recovery	=	87.80%	

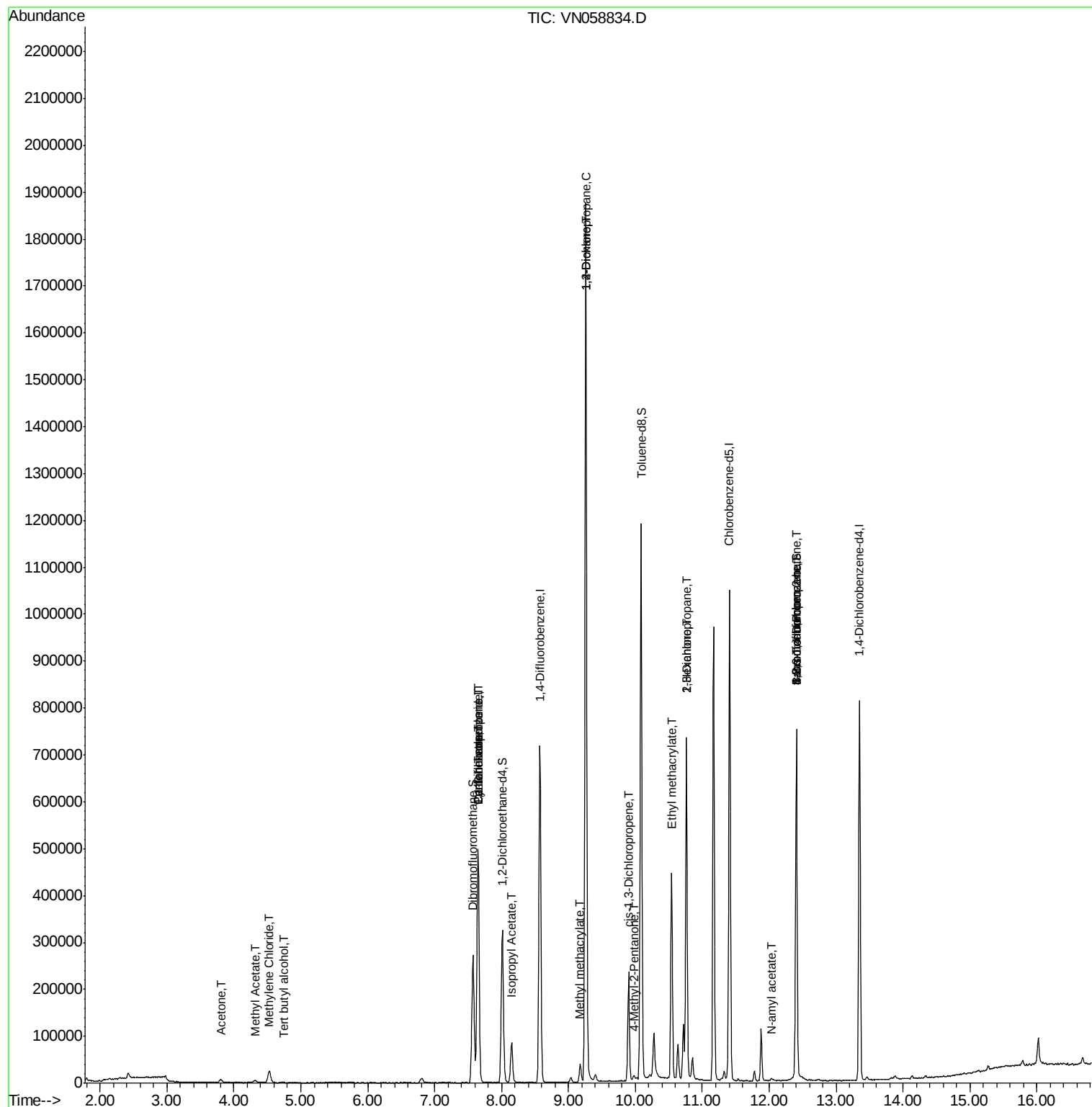
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	227	0.262	ug/l #	72
16) Acetone	3.80	43	12513	5.660	ug/l #	87
18) Methyl Acetate	4.30	43	3755	0.670	ug/l #	89
20) Methylene Chloride	4.53	84	17899	3.874	ug/l	89
31) Cyclohexane	7.65	56	9351	1.194	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	32802	5.297	ug/l #	51
38) Carbon Tetrachloride	7.65	117	39948	6.619	ug/l #	17
43) Isopropyl Acetate	8.15	43	101451	9.508	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	2165	0.455	ug/l #	45
48) Methyl methacrylate	9.17	41	6267	1.296	ug/l #	14
49) 1,4-Dioxane	9.26	88	200	2.673	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7607	1.269	ug/l #	86
54) cis-1,3-Dichloropropene	9.90	75	38266	5.112	ug/l #	69
56) Ethyl methacrylate	10.54	69	2331	0.358	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7341	0.968	ug/l #	42
59) 2-Hexanone	10.76	43	108126	23.349	ug/l #	53
71) Bromoform	12.41	173	1819	0.584	ug/l #	1
74) N-amyl acetate	12.03	43	3908	0.577	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	134823	29.493	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134823	79.001	ug/l #	11

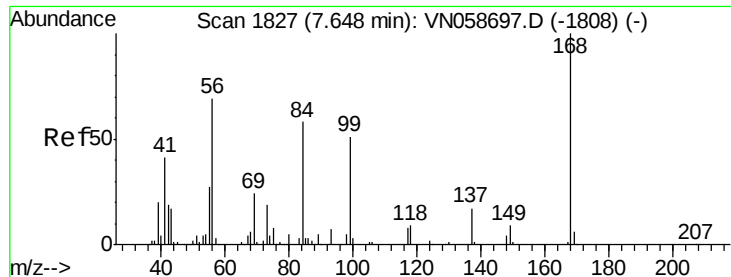
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

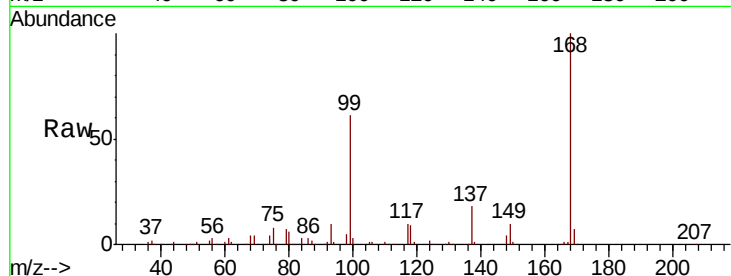
T-13-V1-(24)

Tot Ion:168 Resp: 381464

Ion Ratio Lower Upper

168 100

99 60.6 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

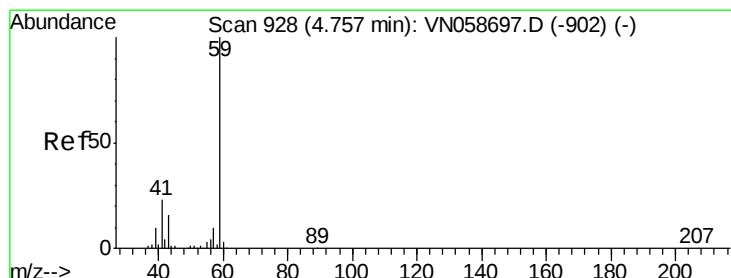
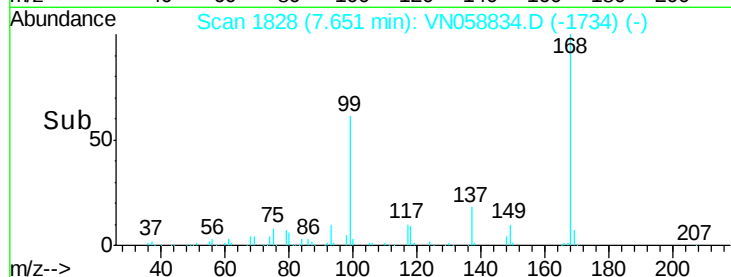
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.262 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058834.D

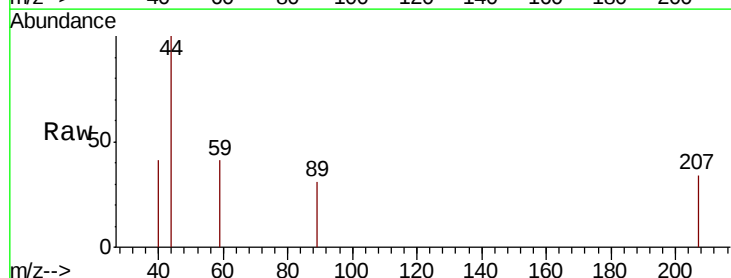
Acq: 17 Oct 2019 17:43

Tgt Ion: 59 Resp: 227

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

250

200

150

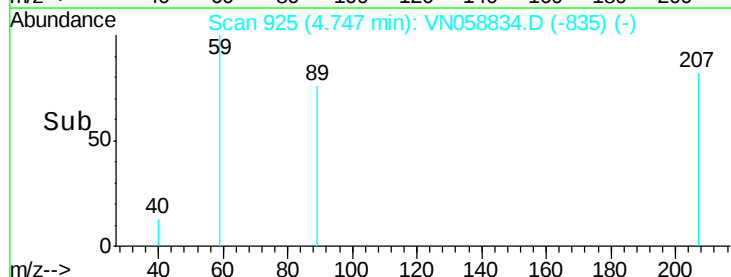
100

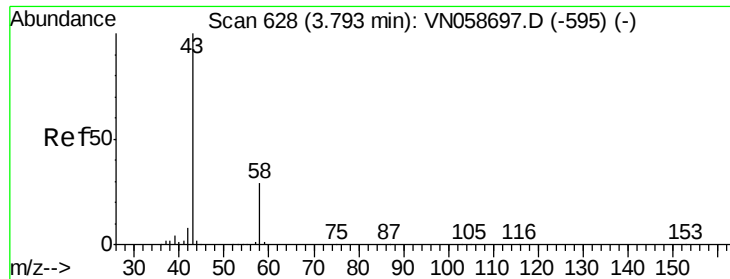
50

0

4.73 4.74 4.75 4.76

Time-->





#16

Acetone

Concen: 5.660 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

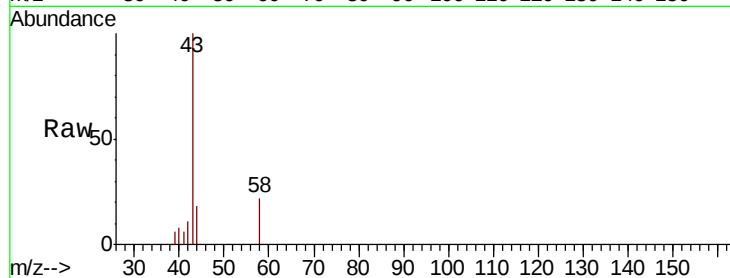
T-13-V1-(24)

Tot Ion: 43 Resp: 12513

Ion Ratio Lower Upper

43 100

58 22.1 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

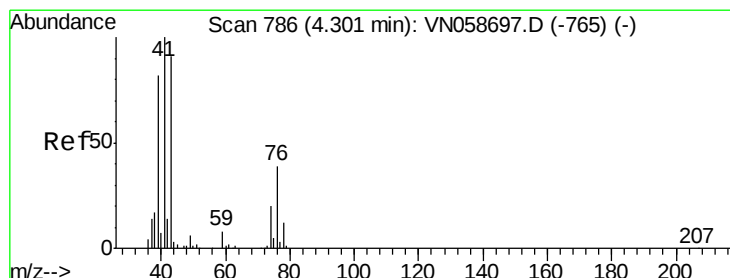
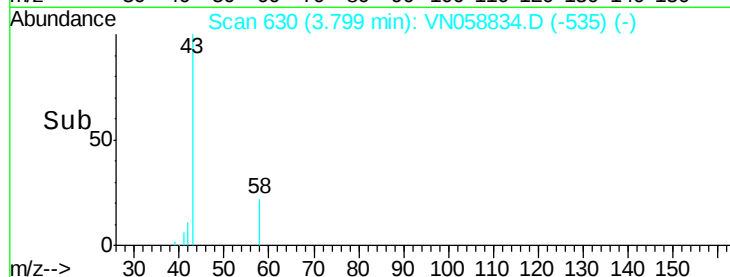
2000

1000

0

Time-->

3.70 3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 0.670 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058834.D

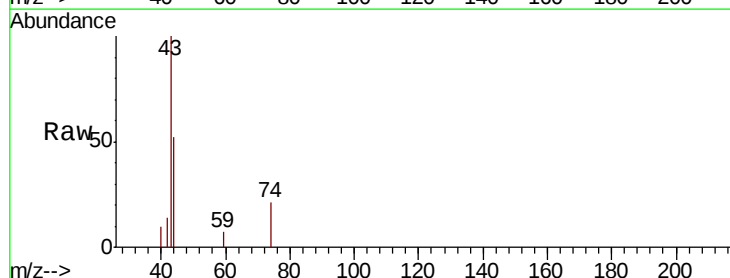
Acq: 17 Oct 2019 17:43

Tgt Ion: 43 Resp: 3755

Ion Ratio Lower Upper

43 100

74 26.8 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

2500

2000

1500

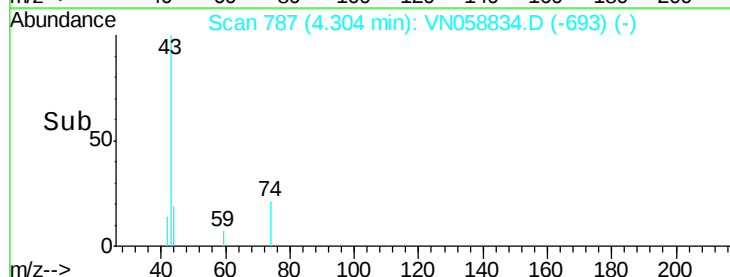
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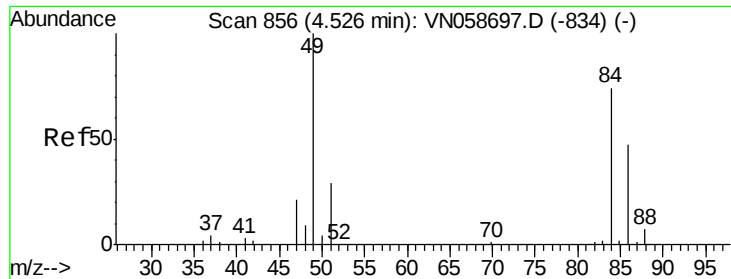
500

0

Time-->

4.25 4.30 4.35

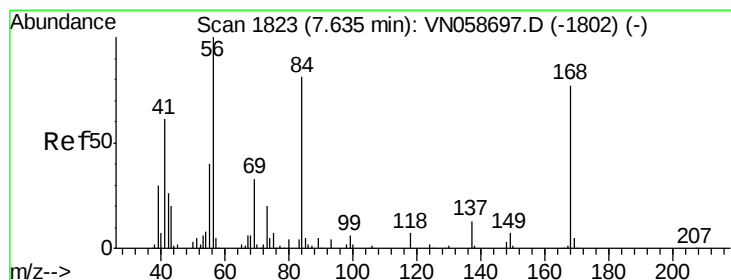
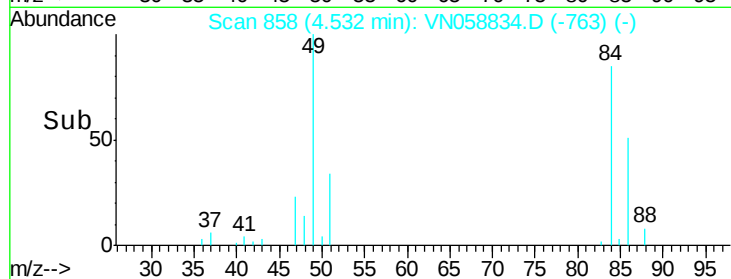
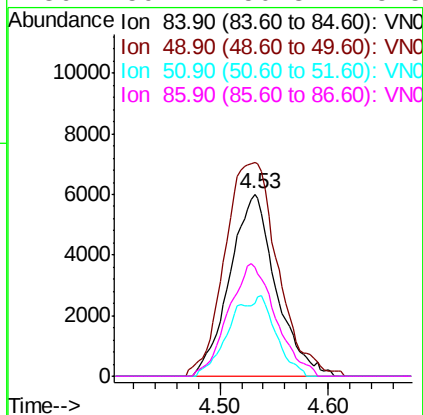
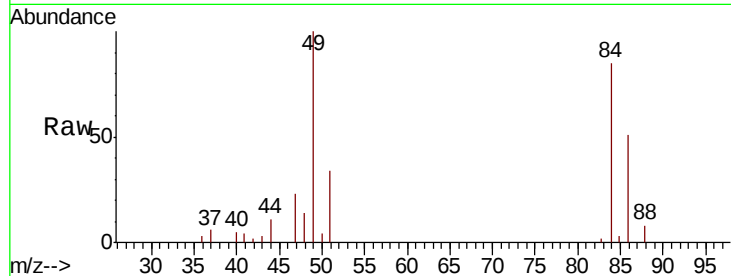




#20
Methylene Chloride
Concen: 3.874 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058834.D
Acq: 17 Oct 2019 17:43

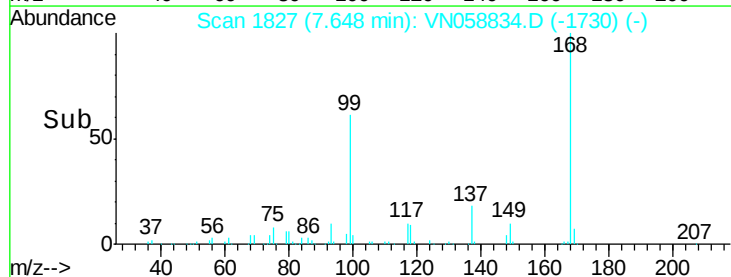
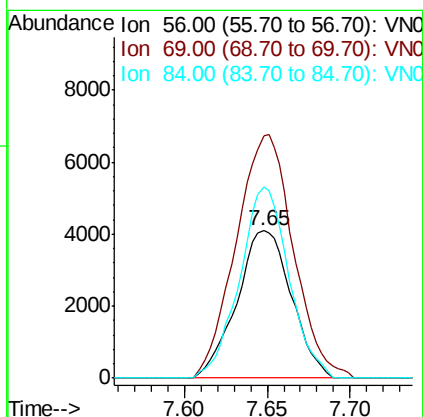
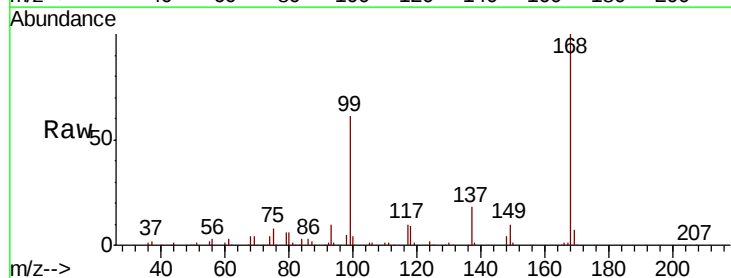
Instrument :
MSVOA_N
ClientSampled :
T-13-V1-(24)

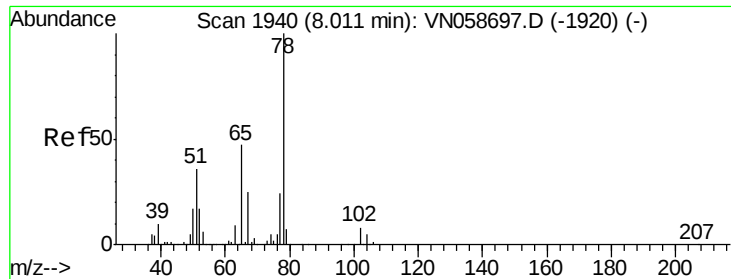
Tot Ion: 84 Resp: 17899
Ion Ratio Lower Upper
84 100
49 114.5 107.6 161.4
51 40.4 31.4 47.0
86 59.7 50.3 75.5



#31
Cyclohexane
Concen: 1.194 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058834.D
Acq: 17 Oct 2019 17:43

Tgt Ion: 56 Resp: 9351
Ion Ratio Lower Upper
56 100
69 164.6 26.2 39.4#
84 130.1 64.9 97.3#

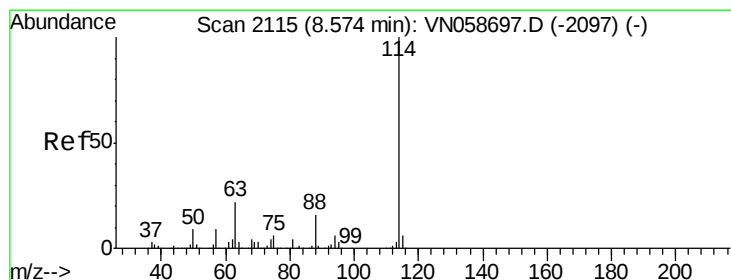
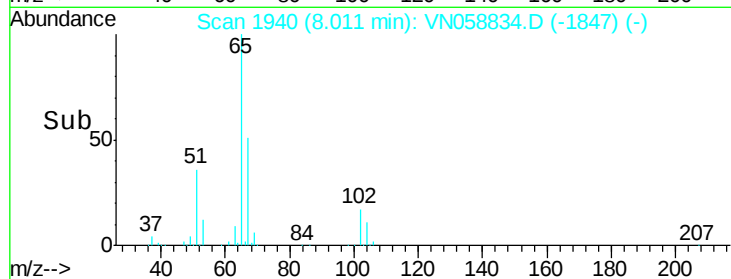
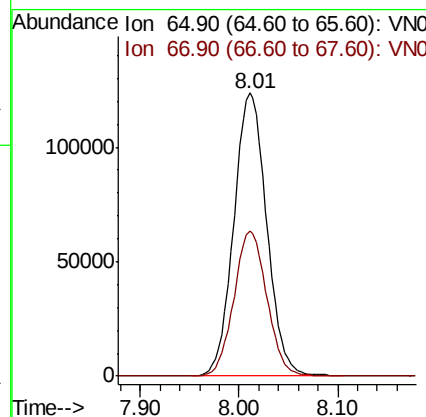
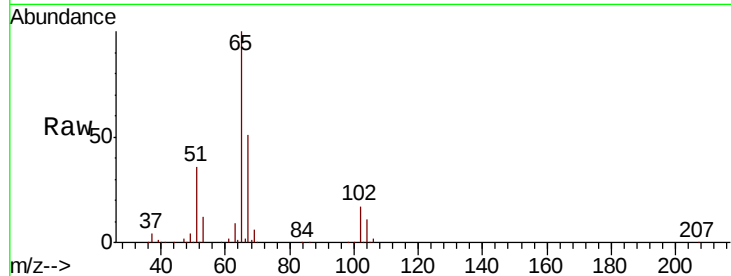




#33
 1,2-Dichloroethane-d4
 Concen: 53.730 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058834.D
 Acq: 17 Oct 2019 17:43

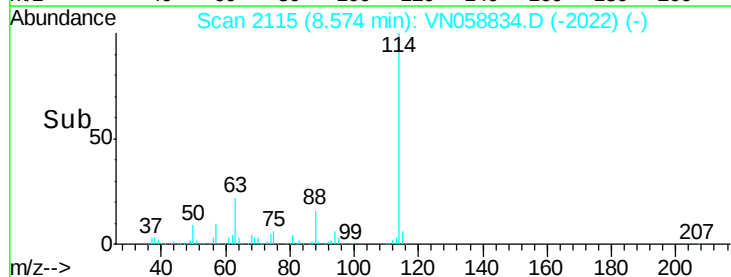
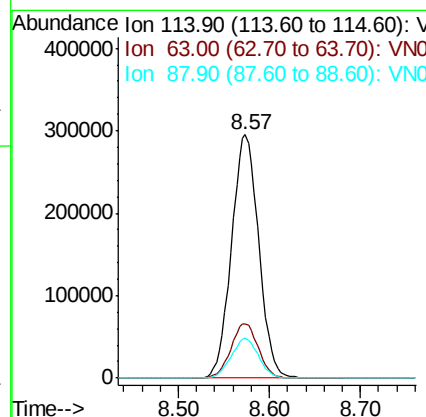
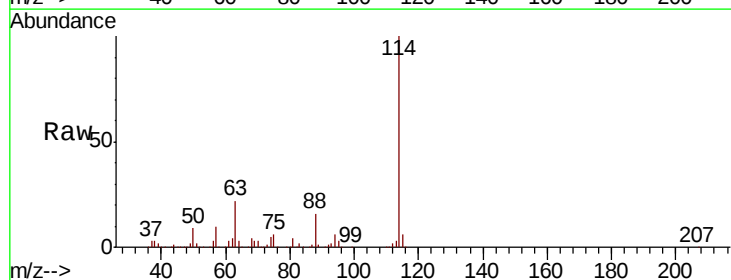
Instrument :
 MSVOA_N
 ClientSampled :
 T-13-V1-(24)

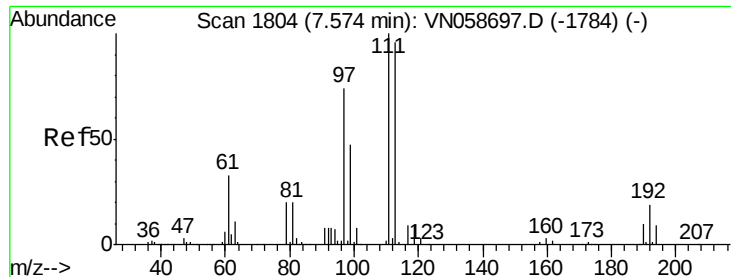
Tot Ion: 65 Resp: 286940
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058834.D
 Acq: 17 Oct 2019 17:43

Tgt Ion: 114 Resp: 612524
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 16.3 0.0 32.0

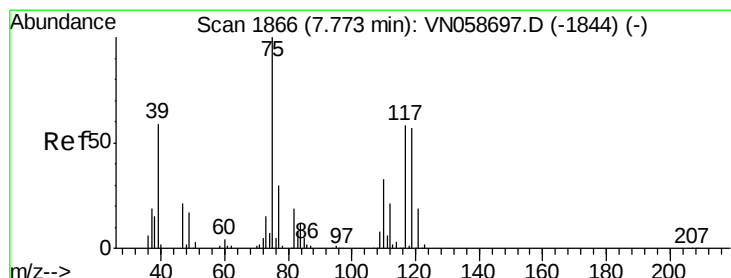
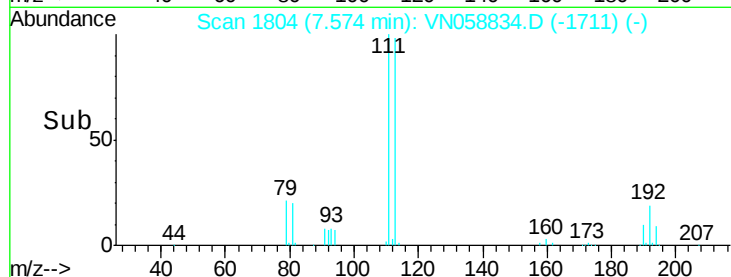
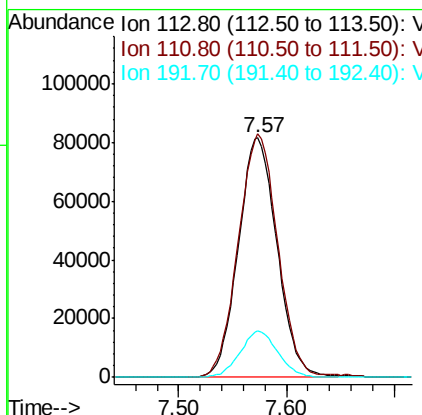
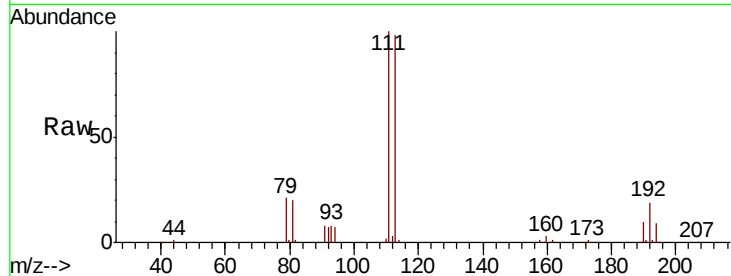




#35
 Dibromofluoromethane
 Concen: 53.665 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058834.D
 Acq: 17 Oct 2019 17:43

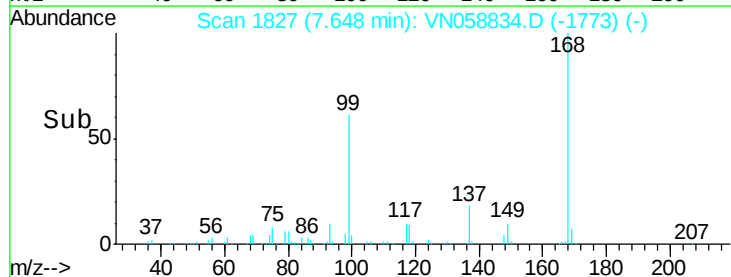
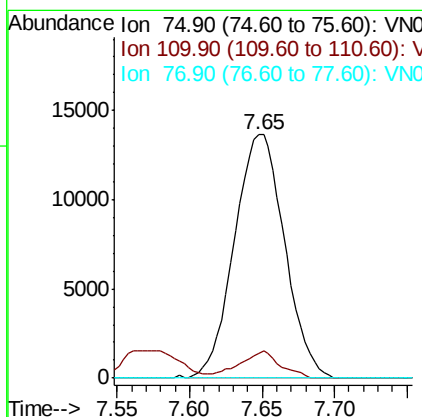
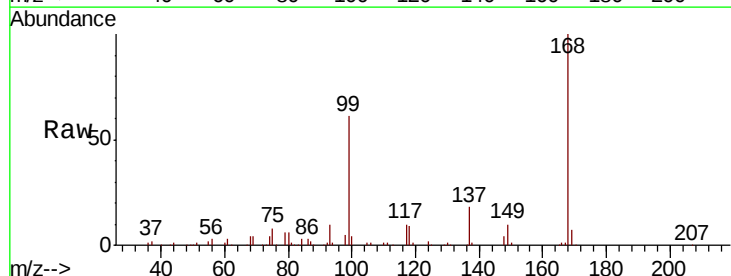
Instrument :
 MSVOA_N
 ClientSampled :
 T-13-V1-(24)

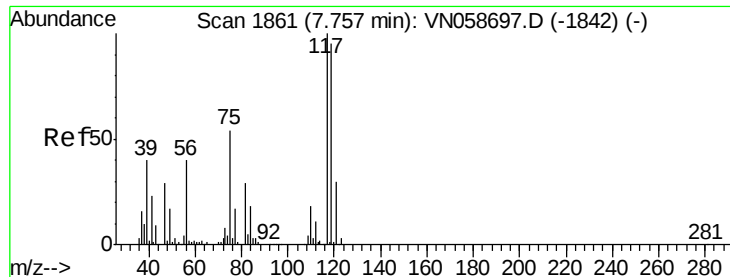
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.3	123.5
192	18.9	15.0	22.6



#36
 1,1-Dichloropropene
 Concen: 5.297 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058834.D
 Acq: 17 Oct 2019 17:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.6	49.8#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.619 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampled :

T-13-V1-(24)

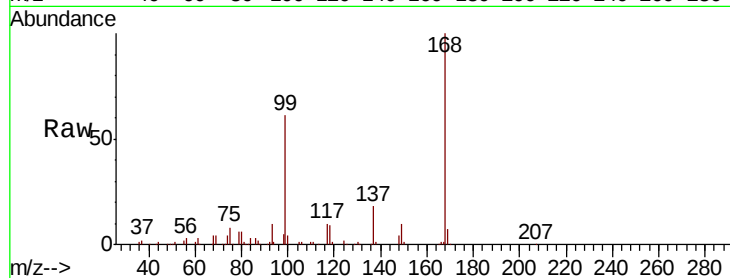
Tot Ion:117 Resp: 39948

Ion Ratio Lower Upper

117 100

119 5.5 75.7 113.5#

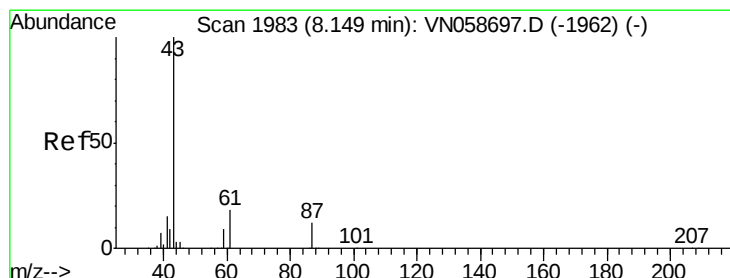
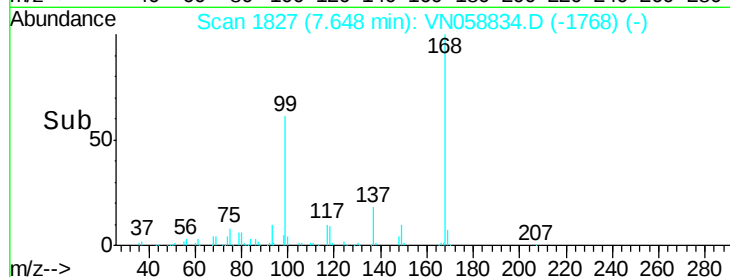
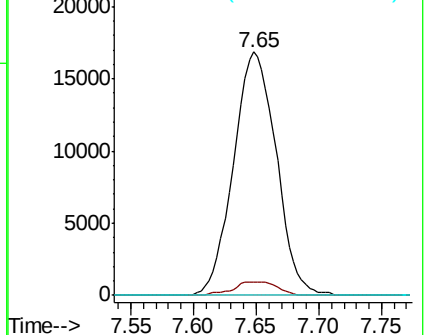
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 9.508 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

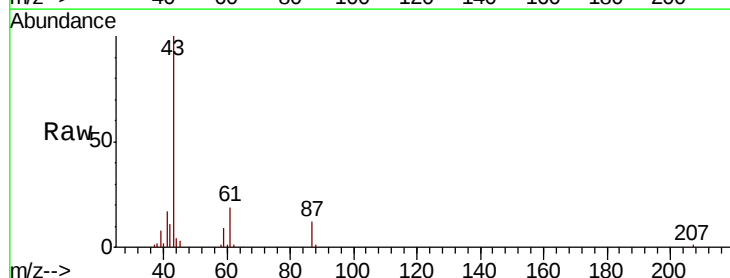
Tgt Ion: 43 Resp: 101451

Ion Ratio Lower Upper

43 100

61 18.5 20.3 30.5#

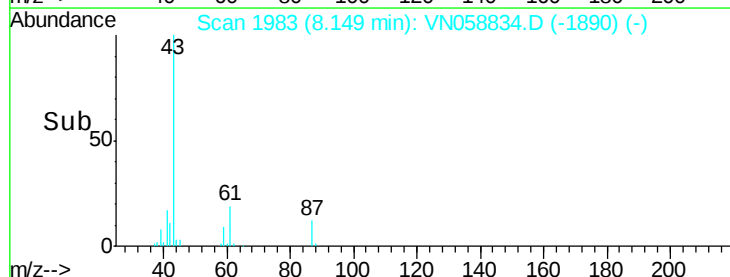
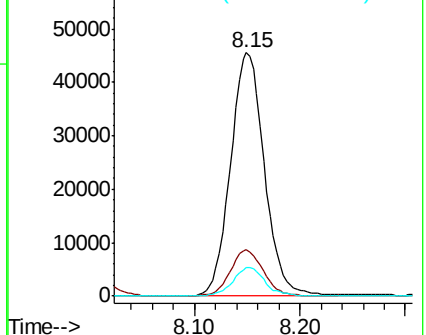
87 11.1 9.8 14.6

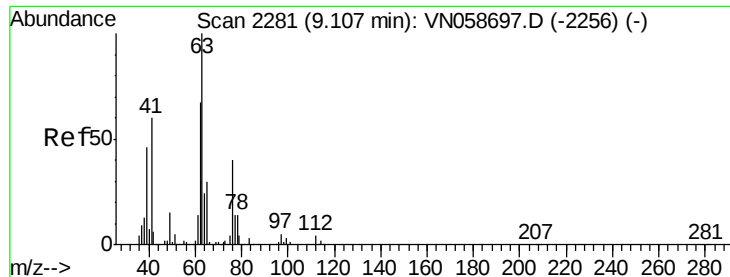


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.455 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

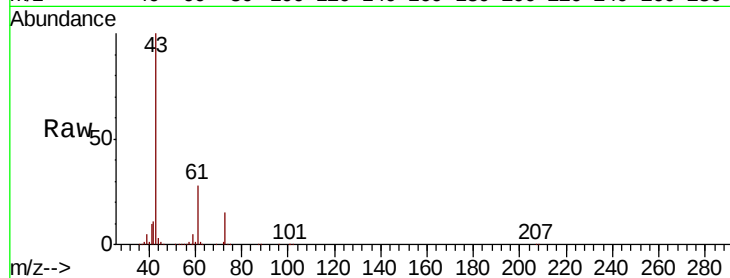
T-13-V1-(24)

Tot Ion: 63 Resp: 2165

Ion Ratio Lower Upper

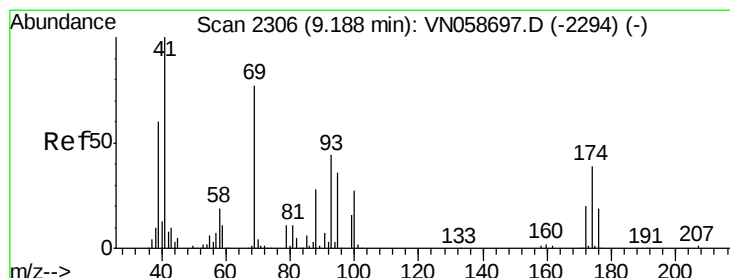
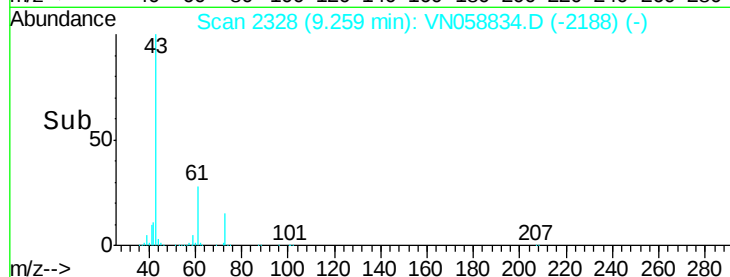
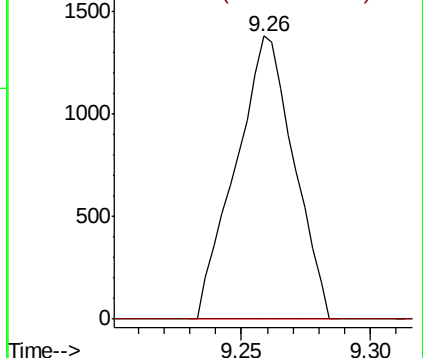
63 100

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

Methyl methacrylate

Concen: 1.296 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

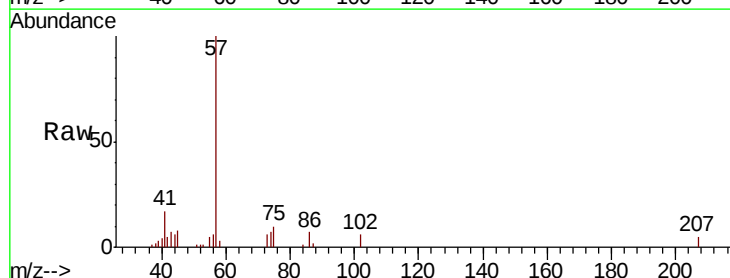
Tgt Ion: 41 Resp: 6267

Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.2#

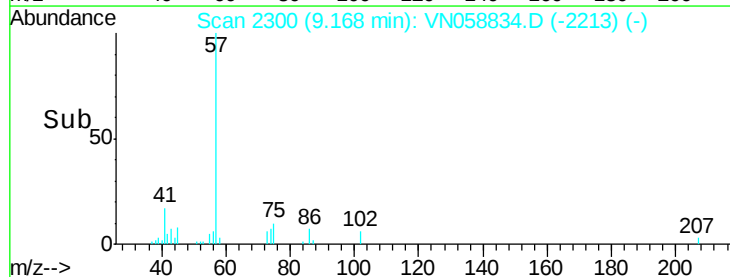
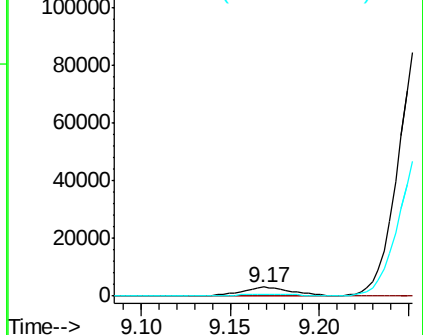
39 0.0 48.9 73.3#

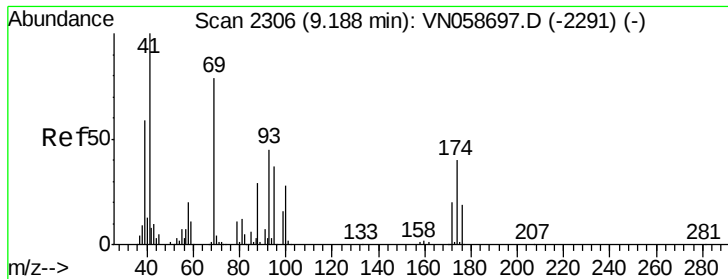


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 2.673 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampled :

T-13-V1-(24)

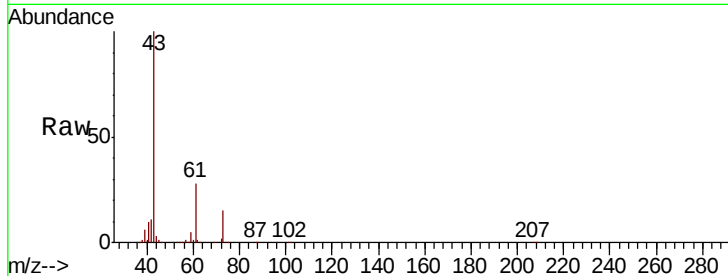
Tot Ion: 88 Resp: 200

Ion Ratio Lower Upper

88 100

43 918155.0 28.6 43.0#

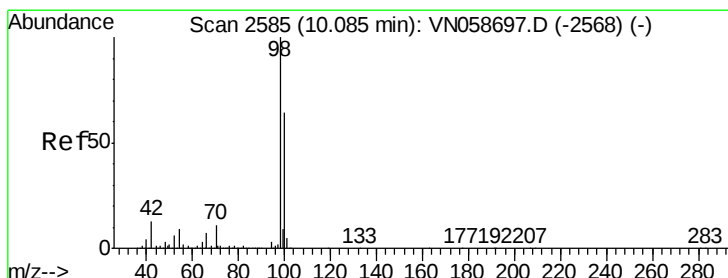
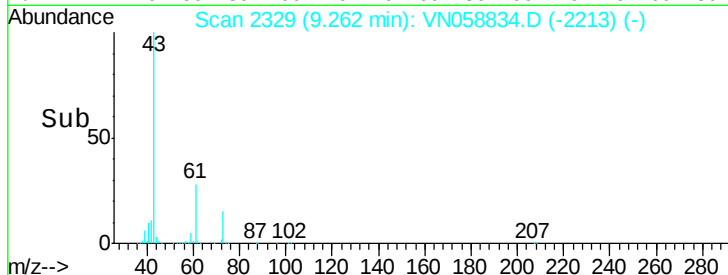
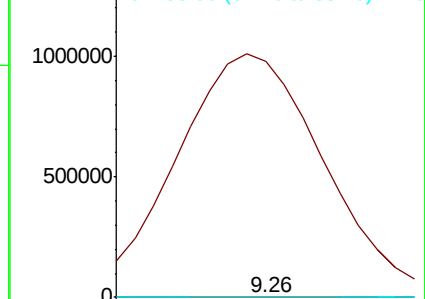
58 4304.0 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.645 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058834.D

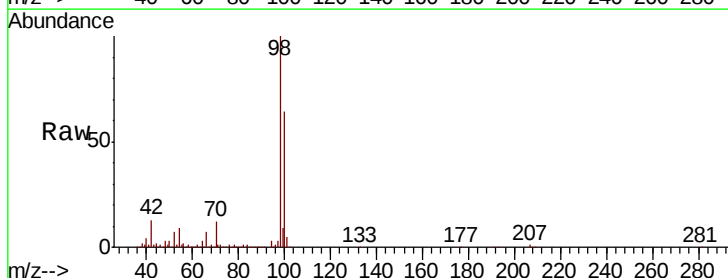
Acq: 17 Oct 2019 17:43

Tgt Ion: 98 Resp: 796483

Ion Ratio Lower Upper

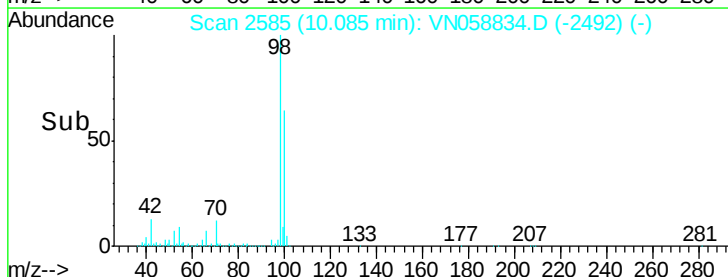
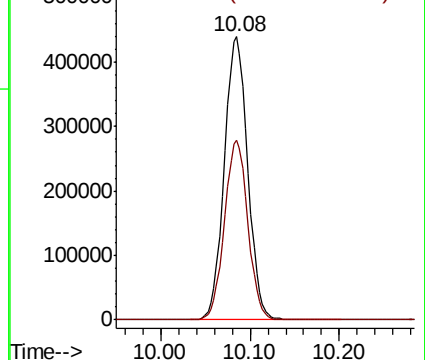
98 100

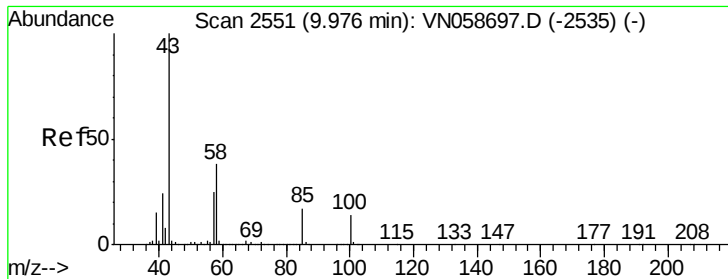
100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.269 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampled :

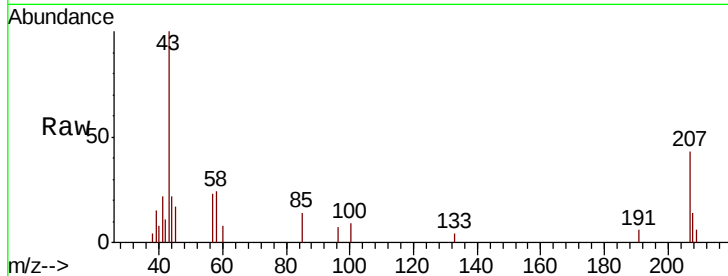
T-13-V1-(24)

Tot Ion: 43 Resp: 7607

Ion Ratio Lower Upper

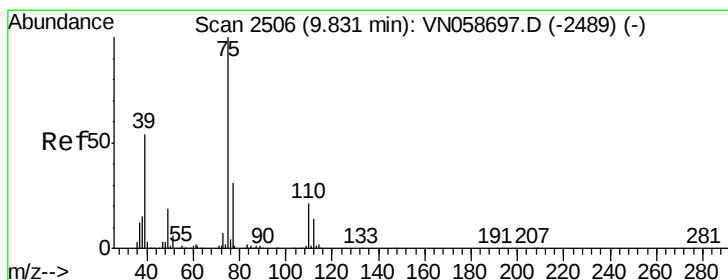
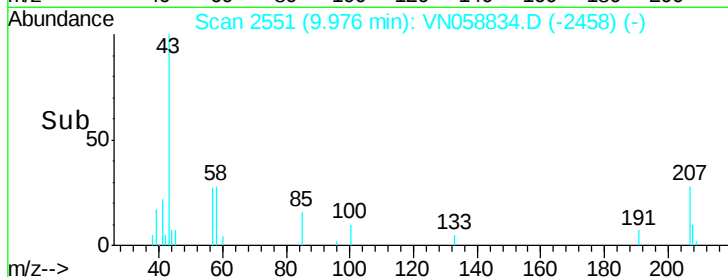
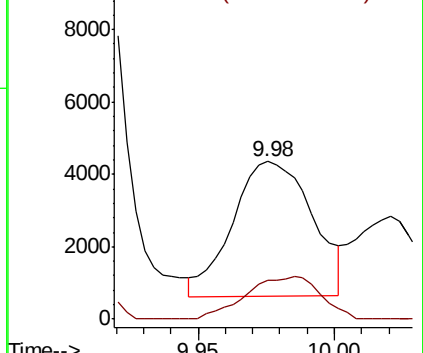
43 100

58 29.2 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.112 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

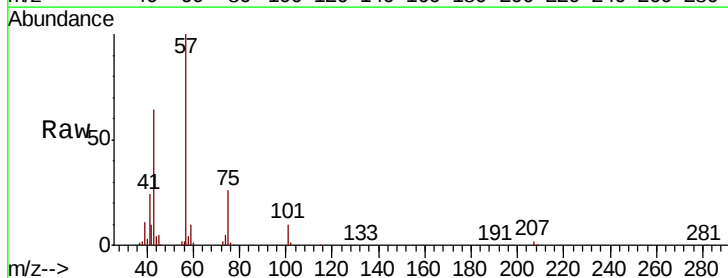
Tgt Ion: 75 Resp: 38266

Ion Ratio Lower Upper

75 100

77 0.7 24.4 36.6#

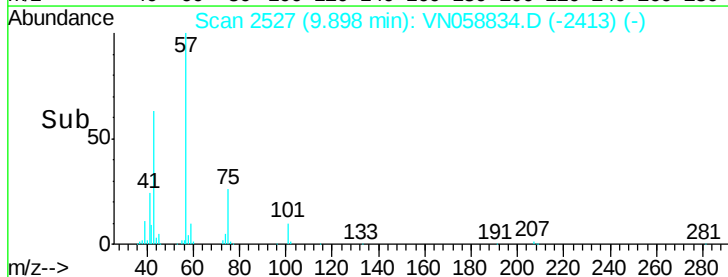
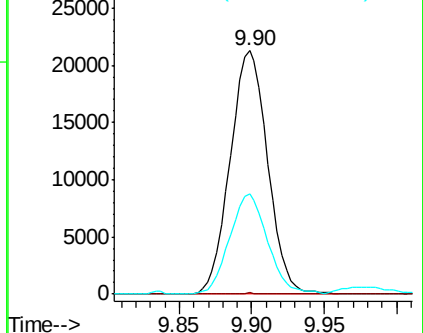
39 41.1 43.1 64.7#

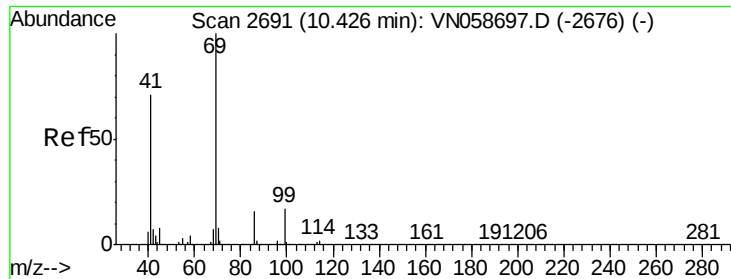


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.358 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampled :

T-13-V1-(24)

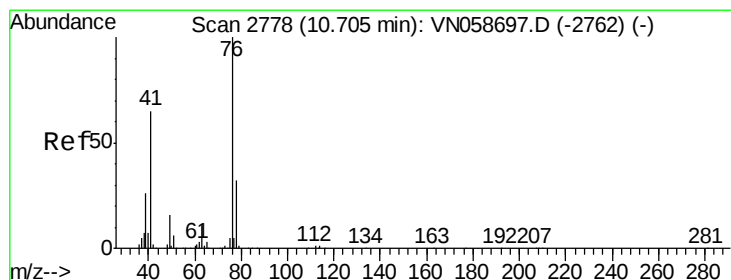
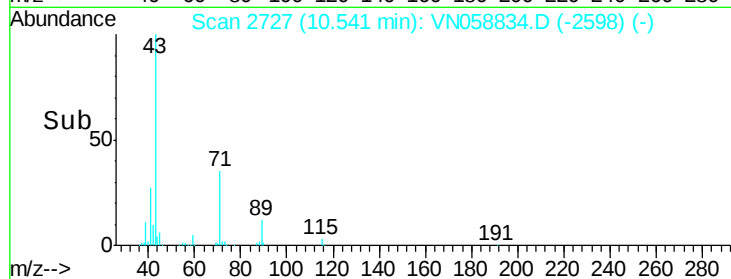
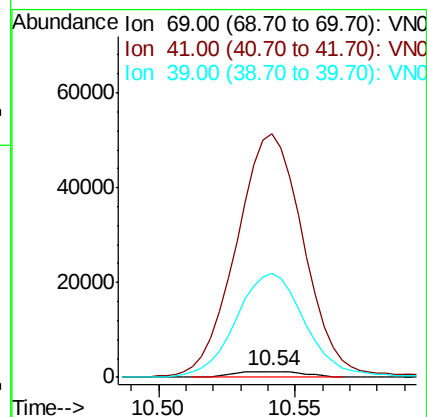
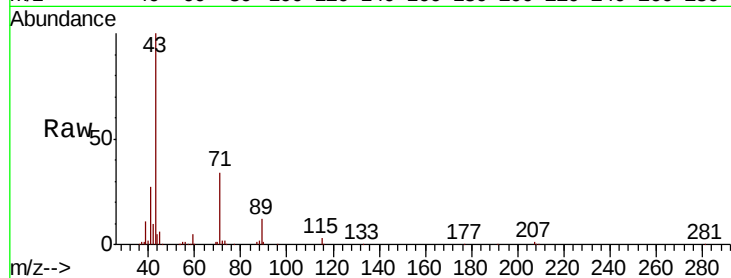
Tot Ion: 69 Resp: 2331

Ion Ratio Lower Upper

69 100

41 3806.5 56.8 85.2#

39 1666.5 32.5 48.7#



#57

1,3-Dichloropropane

Concen: 0.968 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058834.D

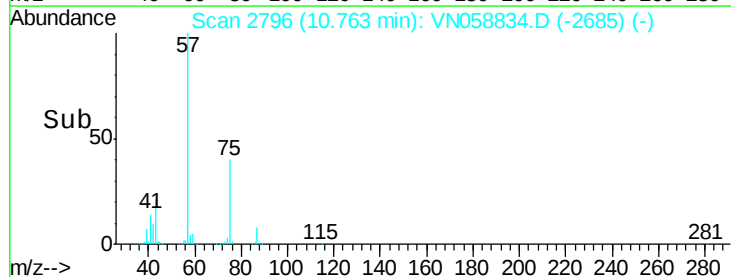
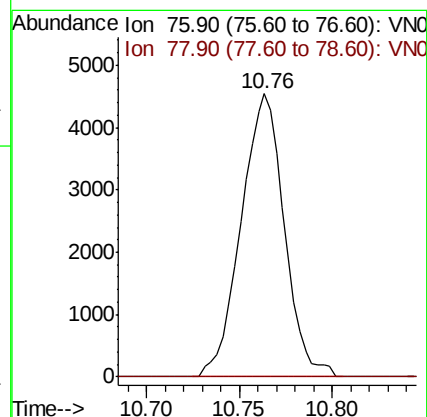
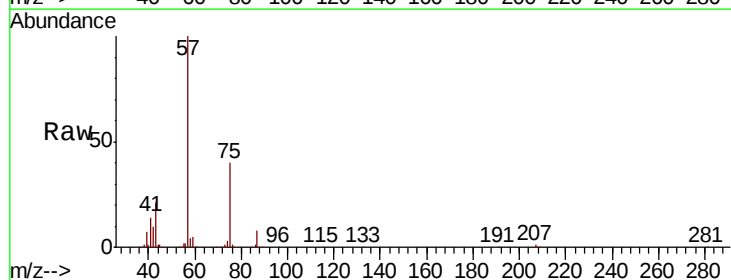
Acq: 17 Oct 2019 17:43

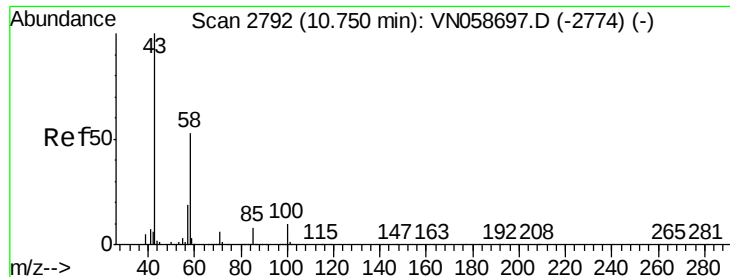
Tgt Ion: 76 Resp: 7341

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

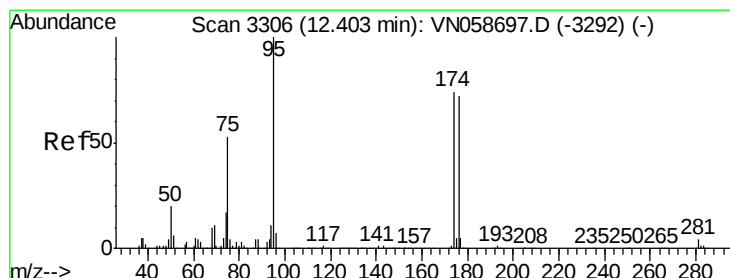
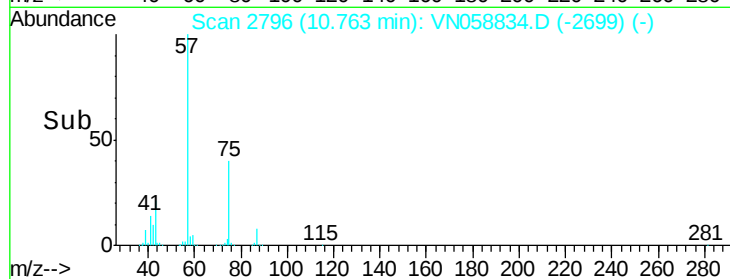
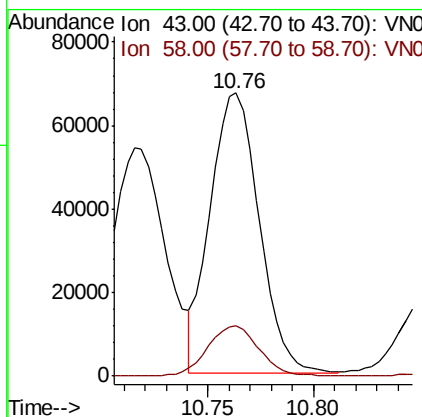
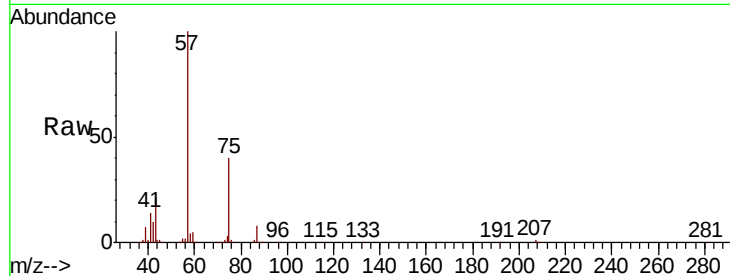




#59
2-Hexanone
Concen: 23.349 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058834.D
Acq: 17 Oct 2019 17:43

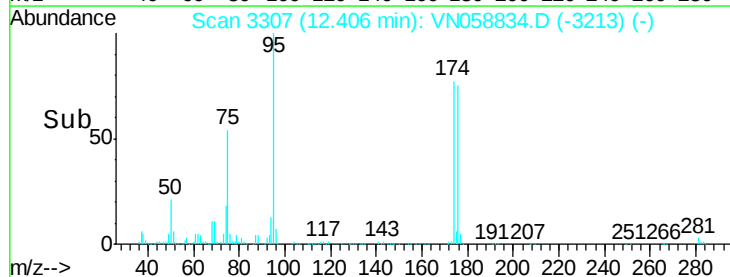
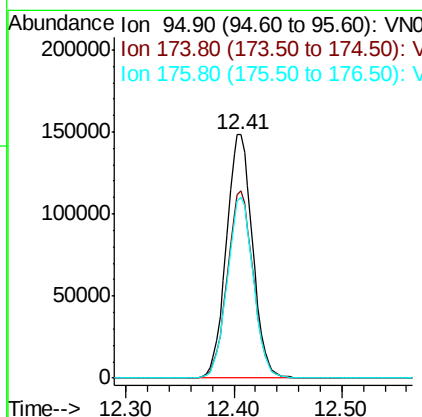
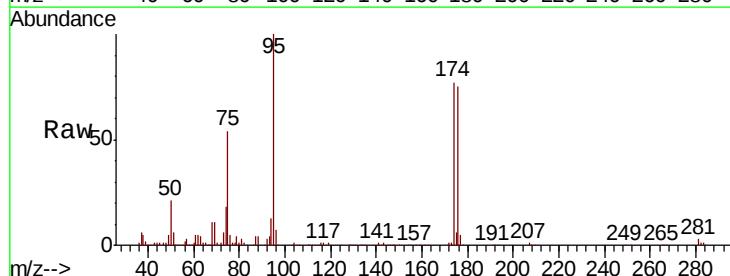
Instrument :
MSVOA_N
ClientSampled :
T-13-V1-(24)

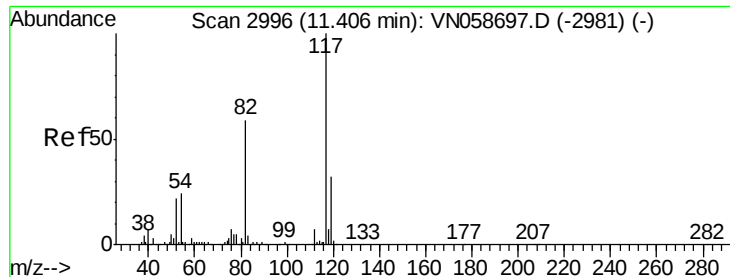
Tot Ion: 43 Resp: 108126
Ion Ratio Lower Upper
43 100
58 18.9 26.1 78.3#



#62
4-Bromofluorobenzene
Concen: 43.901 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058834.D
Acq: 17 Oct 2019 17:43

Tgt Ion: 95 Resp: 251420
Ion Ratio Lower Upper
95 100
174 75.8 0.0 150.4
176 73.4 0.0 146.8

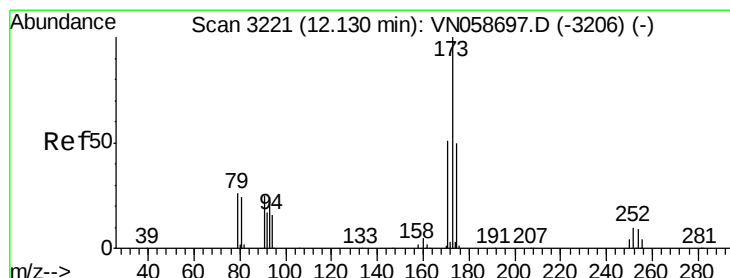
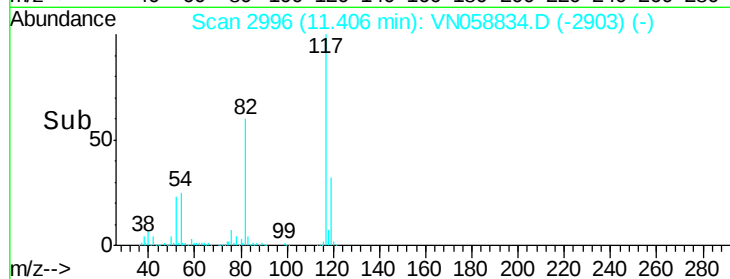
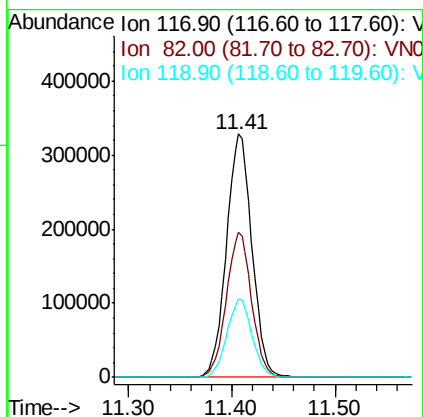
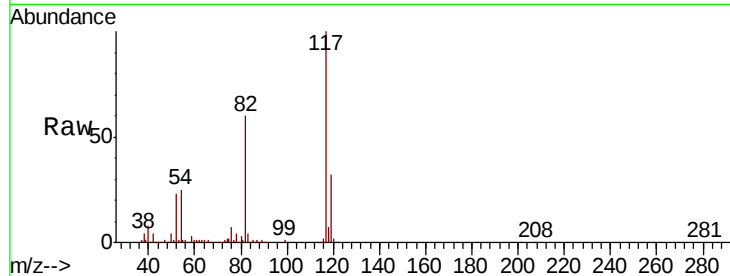




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058834.D
Acq: 17 Oct 2019 17:43

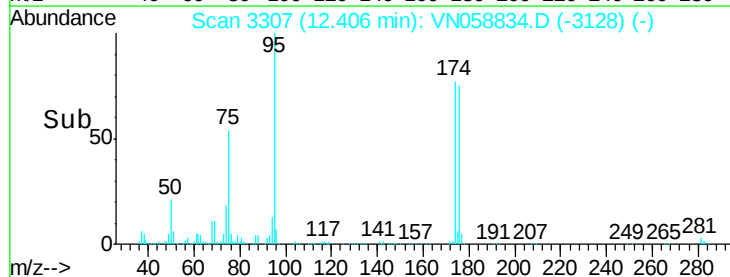
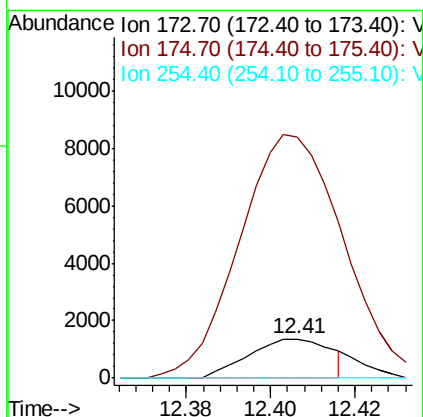
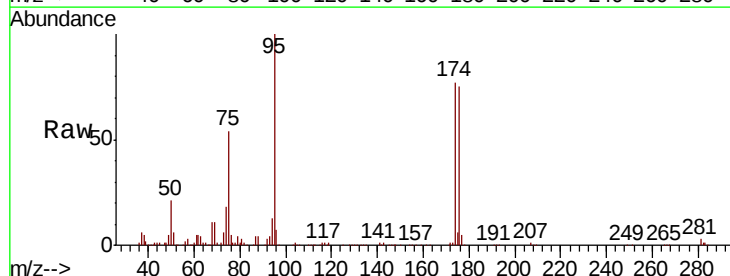
Instrument :
MSVOA_N
ClientSampleId :
T-13-V1-(24)

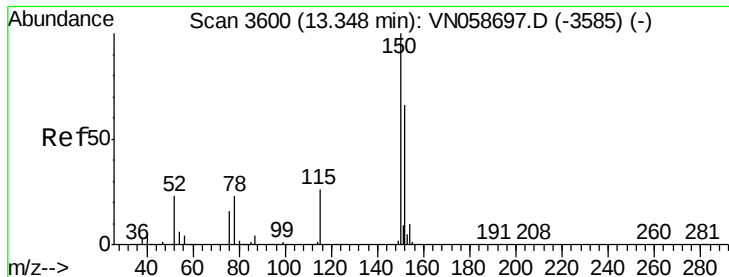
Tot Ion:117 Resp: 565982
Ion Ratio Lower Upper
117 100
82 59.5 47.0 70.4
119 32.1 25.4 38.2



#71
Bromoform
Concen: 0.584 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN058834.D
Acq: 17 Oct 2019 17:43

Tgt Ion:173 Resp: 1819
Ion Ratio Lower Upper
173 100
175 689.3 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: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampled :

T-13-V1-(24)

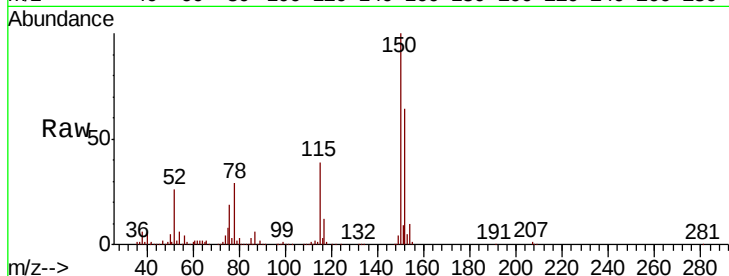
Tot Ion:152 Resp: 208383

Ion Ratio Lower Upper

152 100

115 60.6 30.4 91.2

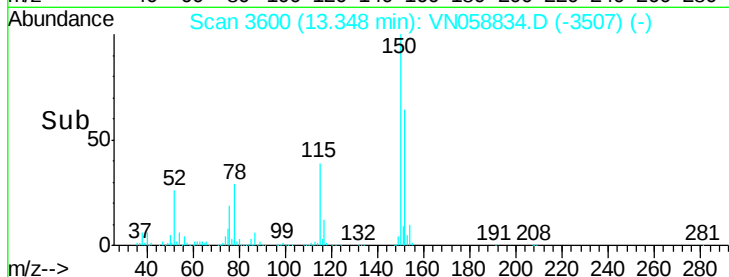
150 154.8 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

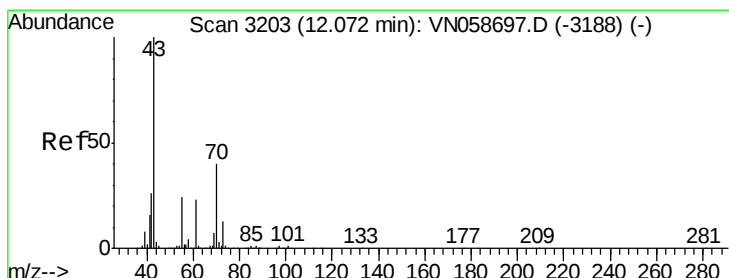
Ion 149.90 (149.60 to 150.60): V



Abundance

13.35

Time-->



#74

N-ethyl acetate

Concen: 0.577 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Tgt Ion: 43 Resp: 3908

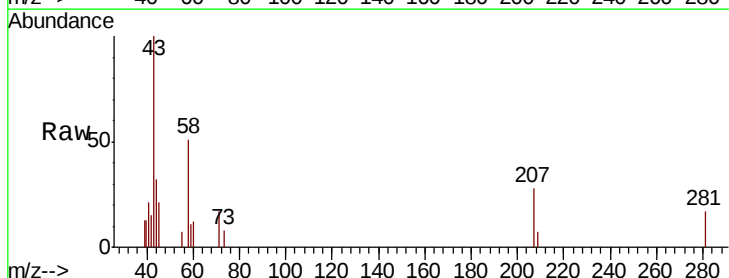
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 6.7 19.6 29.4#

61 0.0 18.6 28.0#

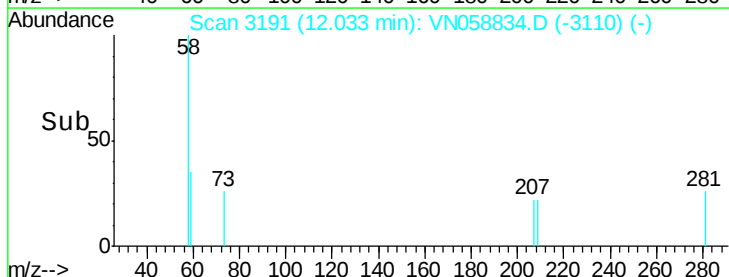


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

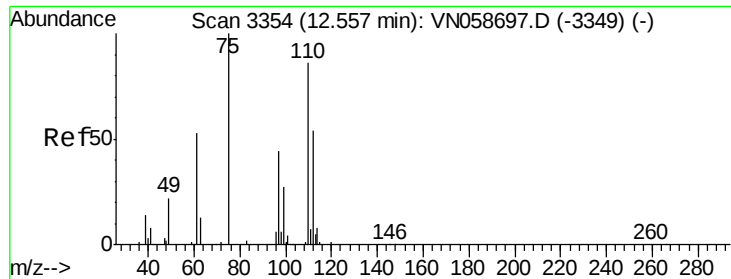
Ion 61.00 (60.70 to 61.70): V



Abundance

12.03

Time-->



#76

1,2,3-Trichloropropane

Concen: 29.493 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

Instrument :

MSVOA_N

ClientSampleId :

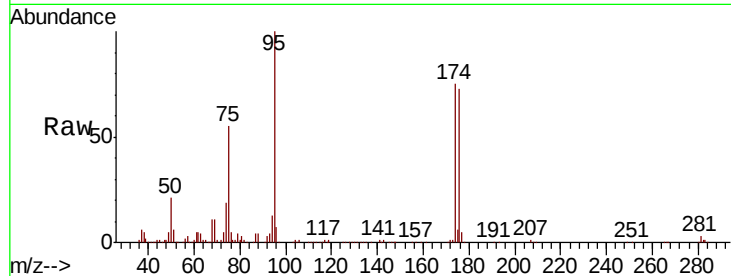
T-13-V1-(24)

Tot Ion: 75 Resp: 134823

Ion Ratio Lower Upper

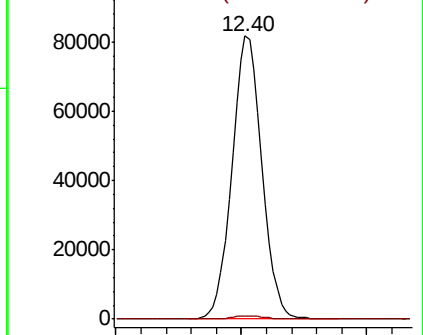
75 100

77 1.2 0.0 0.0#

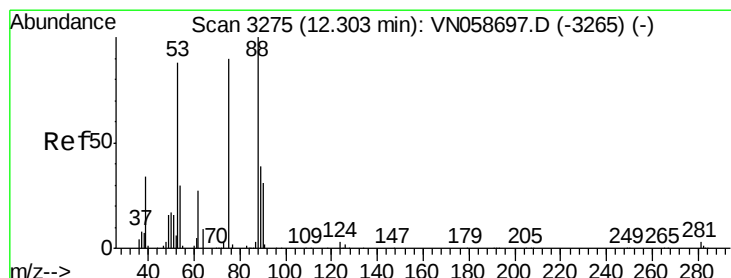
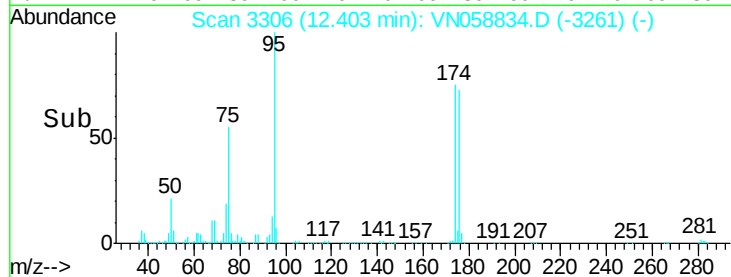


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 79.001 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058834.D

Acq: 17 Oct 2019 17:43

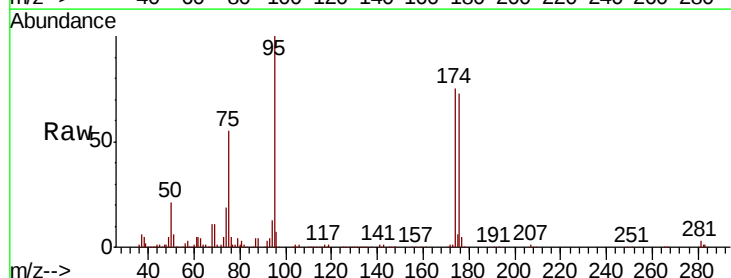
Tgt Ion: 75 Resp: 134823

Ion Ratio Lower Upper

75 100

53 0.2 78.4 117.6#

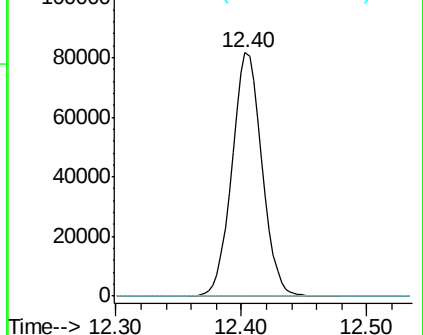
89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time--> 12.30 12.40 12.50

