

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101619\
 Data File : VN058794.D
 Acq On : 16 Oct 2019 12:30
 Operator : JC/SP
 Sample : PB123949TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 17 01:30:59 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	378936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	608097	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	549987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	203486	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	273817	51.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.22%	
35) Dibromofluoromethane	7.57	113	195910	52.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.32%	
50) Toluene-d8	10.08	98	778464	51.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.40	95	249440	43.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.74%	

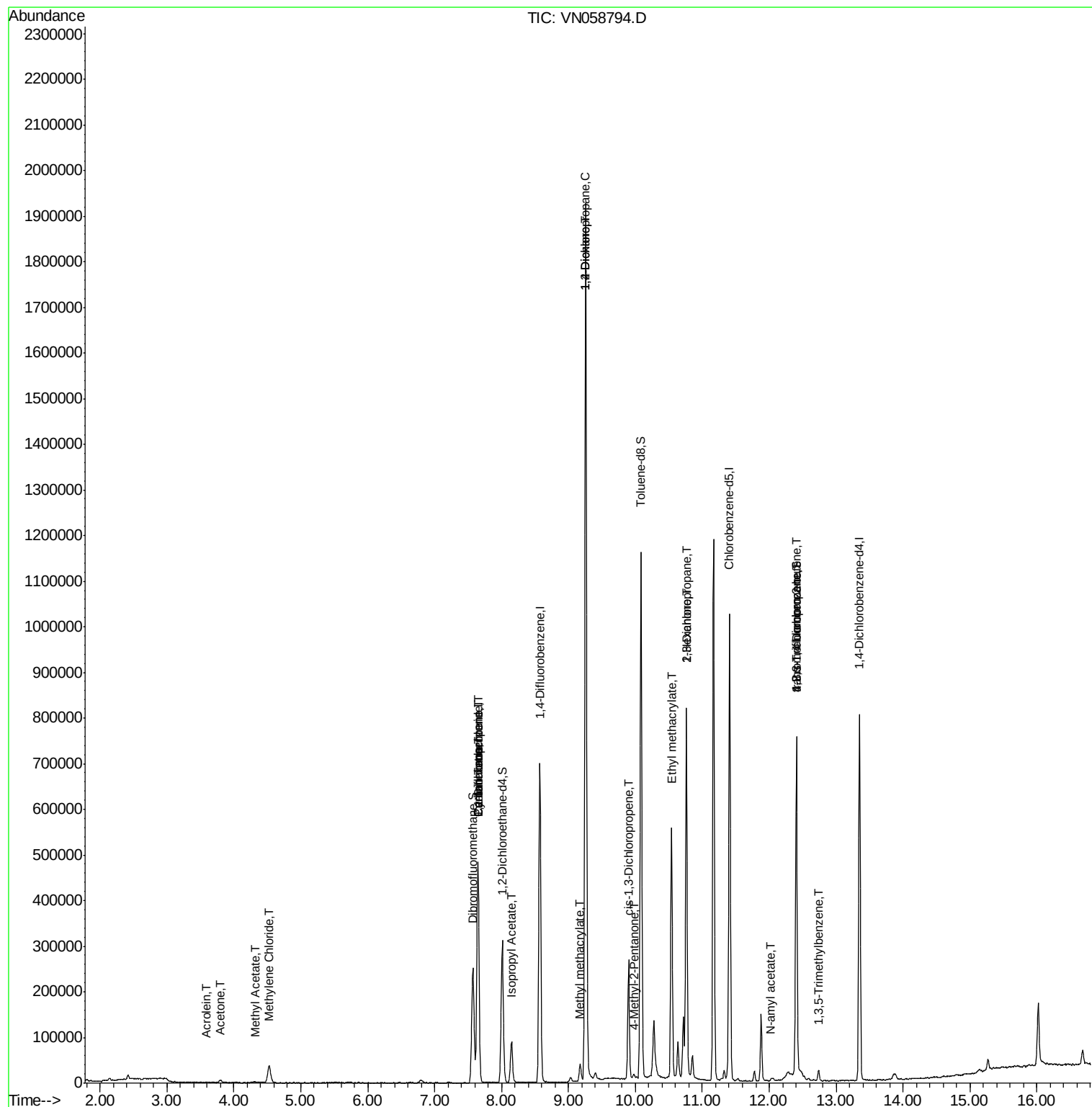
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.59	56	193	0.279	ug/l #	52
16) Acetone	3.80	43	10550	4.804	ug/l	99
18) Methyl Acetate	4.31	43	4250	0.763	ug/l #	84
20) Methylene Chloride	4.53	84	28313	6.168	ug/l	99
31) Cyclohexane	7.65	56	9512	1.222	ug/l #	12
36) 1,1-Dichloropropene	7.65	75	31643	5.147	ug/l #	50
38) Carbon Tetrachloride	7.64	117	39028	6.513	ug/l #	17
43) Isopropyl Acetate	8.15	43	107141	10.115	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	2392	0.506	ug/l #	45
48) Methyl methacrylate	9.17	41	6148	1.280	ug/l #	14
49) 1,4-Dioxane	9.25	88	212	2.854	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7117	1.196	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	44831	6.032	ug/l #	67
56) Ethyl methacrylate	10.54	69	2284	0.354	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7940	1.054	ug/l #	44
59) 2-Hexanone	10.76	43	125562	27.312	ug/l #	53
74) N-amyl acetate	12.04	43	3917	0.592	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	134552	30.142	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	12028	0.956	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	134552	80.740	ug/l #	11

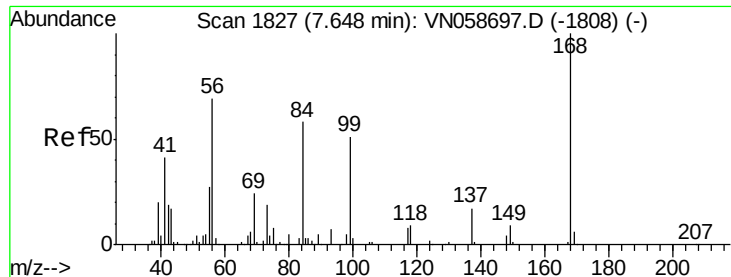
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058794.D

Acq: 16 Oct 2019 12:30

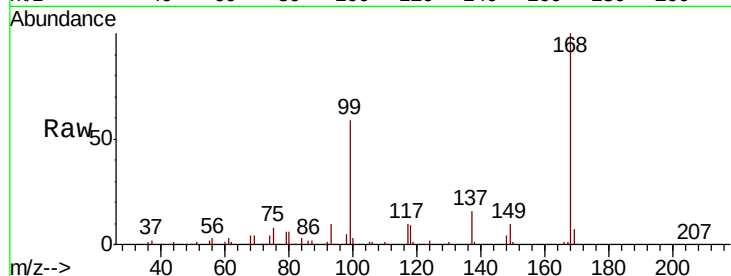
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 378936

Ion Ratio Lower Upper

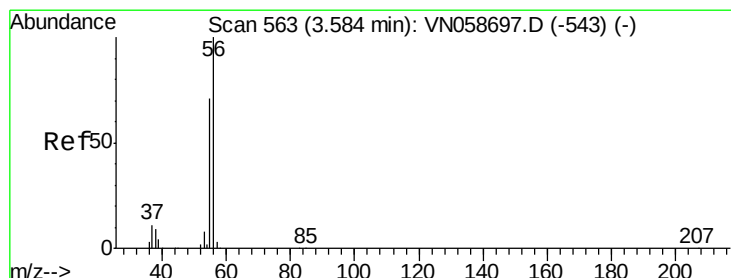
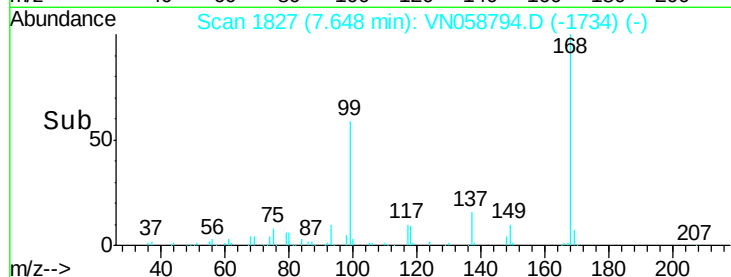
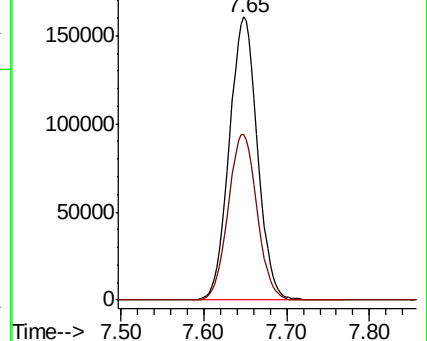
168 100

99 58.6 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.279 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058794.D

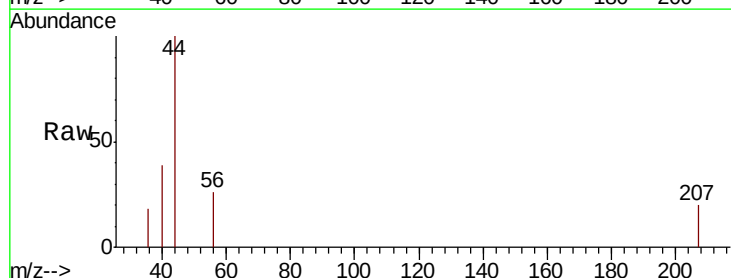
Acq: 16 Oct 2019 12:30

Tgt Ion: 56 Resp: 193

Ion Ratio Lower Upper

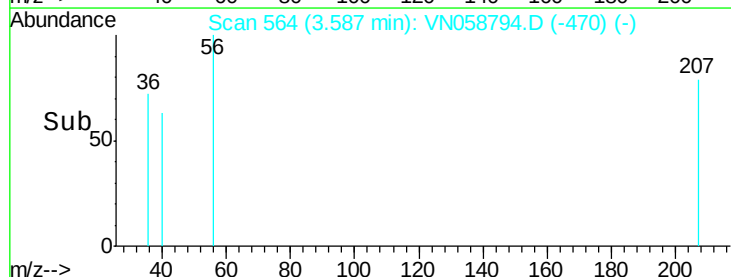
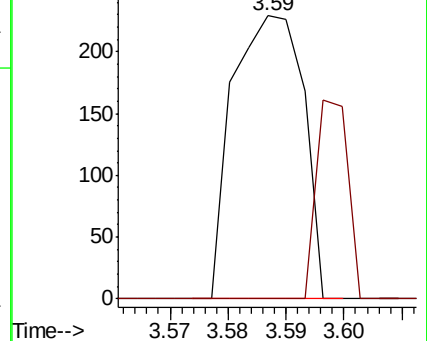
56 100

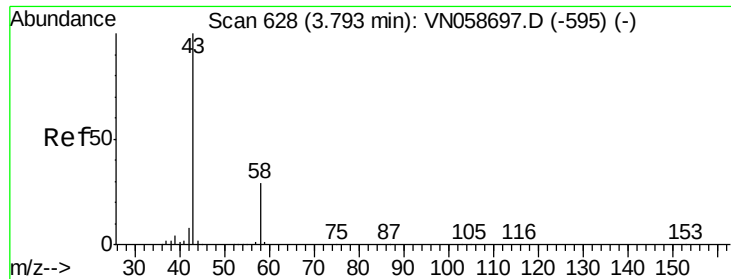
55 31.6 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 4.804 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

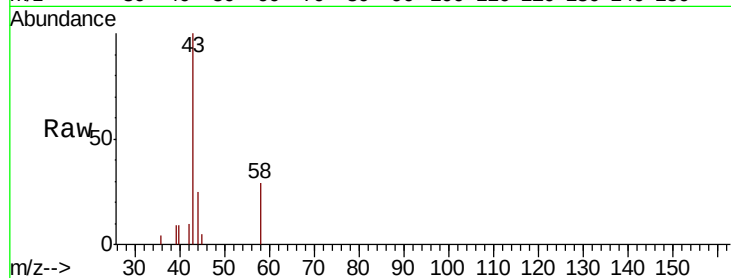
ClientSampled :

Tot Ion: 43 Resp: 10550

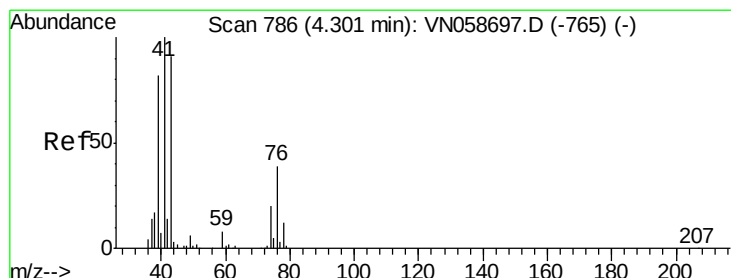
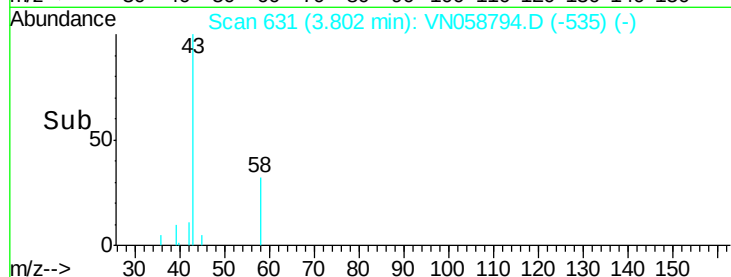
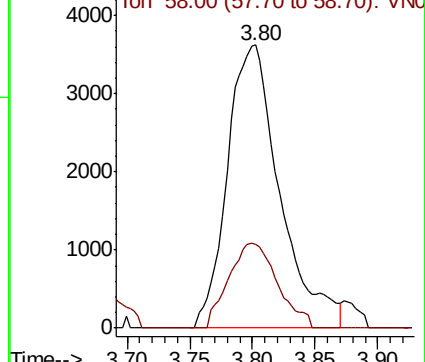
Ion Ratio Lower Upper

43 100

58 29.4 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058794.D (-535) (-)



#18

Methyl Acetate

Concen: 0.763 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN058794.D

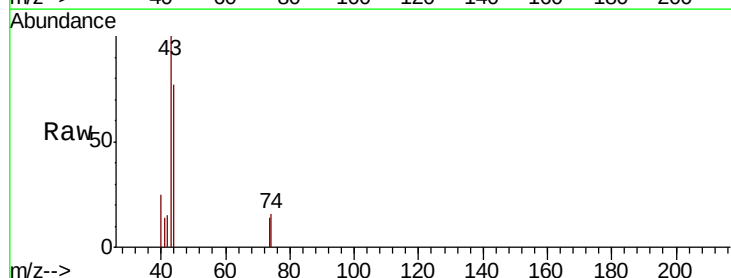
Acq: 16 Oct 2019 12:30

Tgt Ion: 43 Resp: 4250

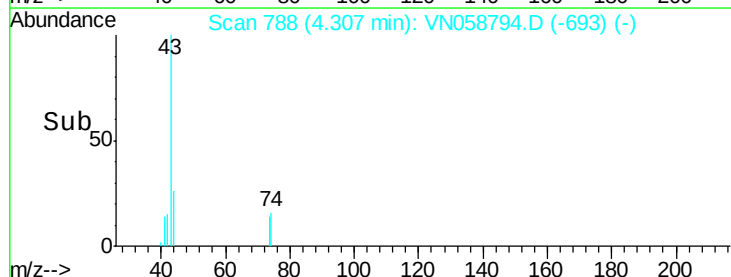
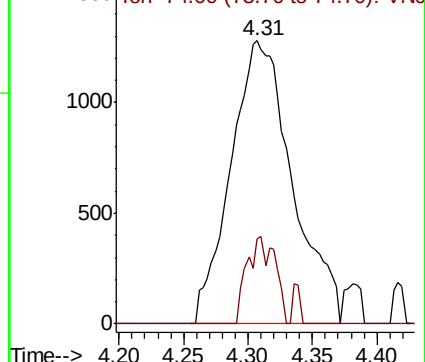
Ion Ratio Lower Upper

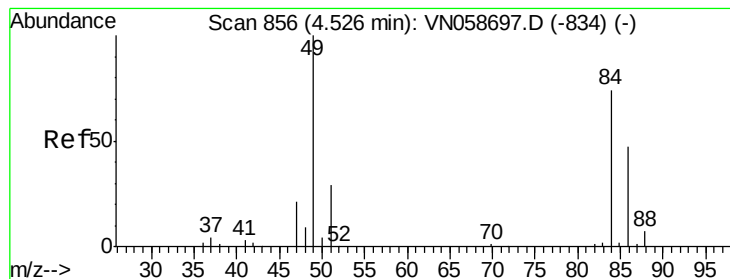
43 100

74 14.0 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN058794.D (-693) (-)





#20

Methvlene Chloride

Concen: 6.168 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 28313

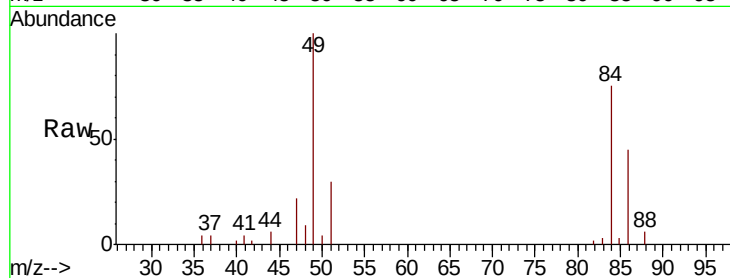
Ion Ratio Lower Upper

84 100

49 133.8 107.6 161.4

51 39.5 31.4 47.0

86 60.1 50.3 75.5

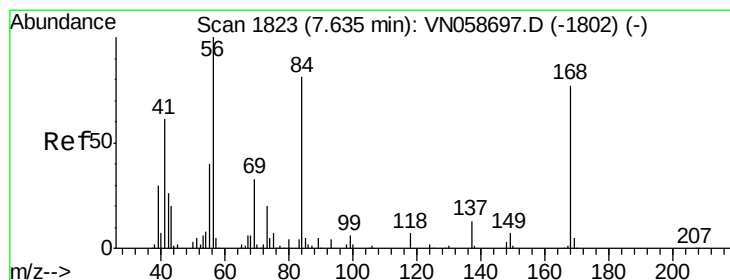
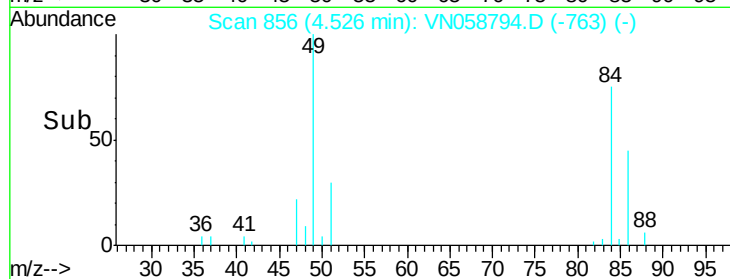
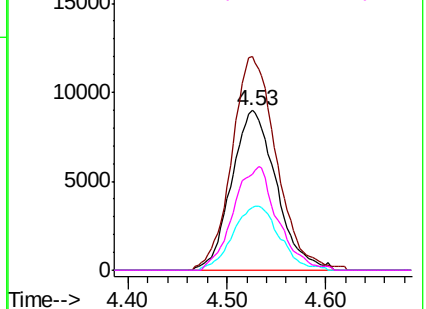


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#31

Cyclohexane

Concen: 1.222 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

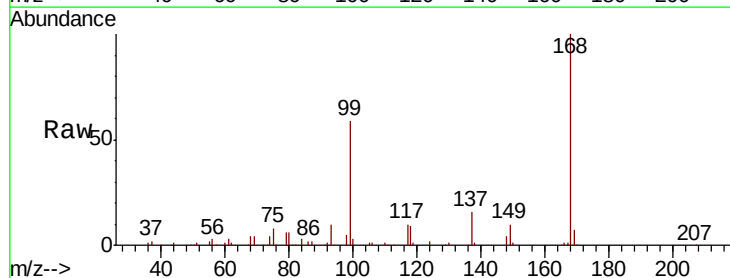
Tgt Ion: 56 Resp: 9512

Ion Ratio Lower Upper

56 100

69 160.4 26.2 39.4#

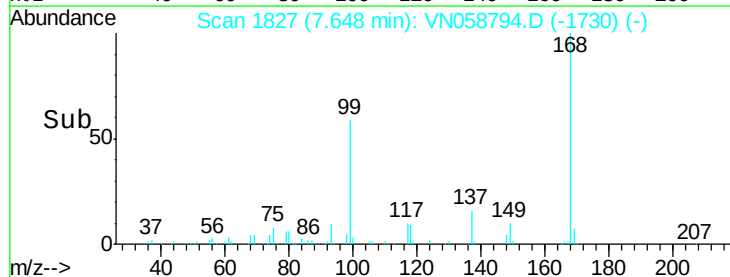
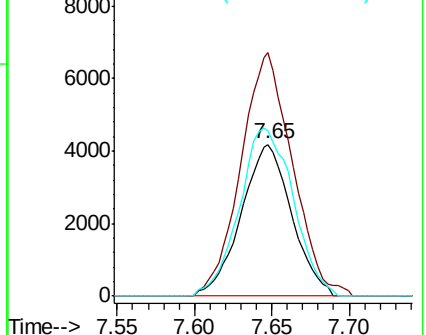
84 109.0 64.9 97.3#

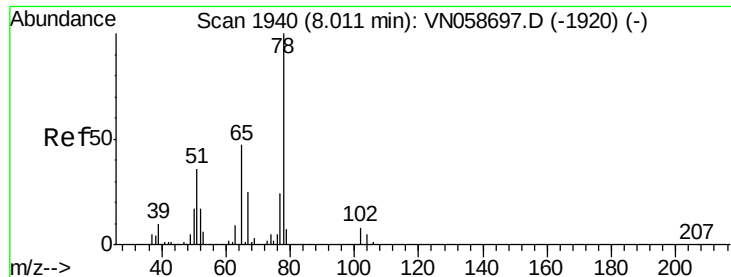


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

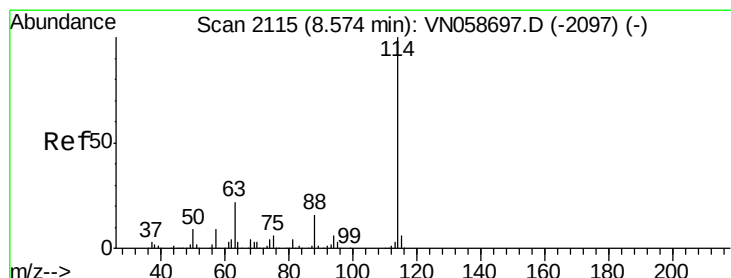
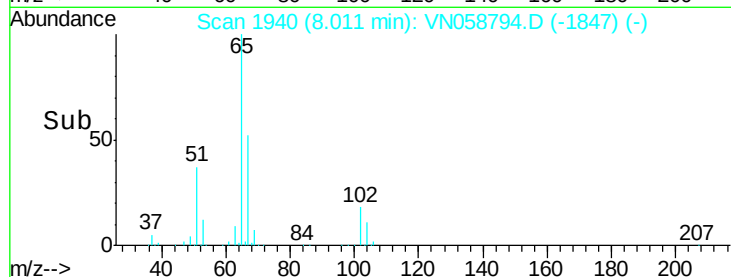
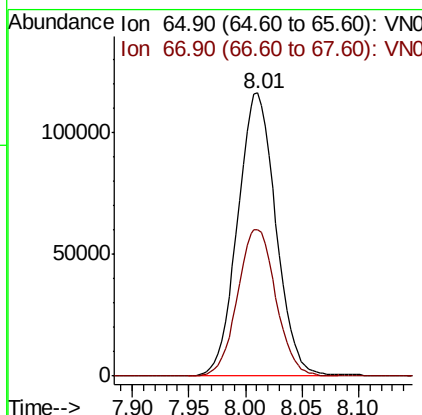
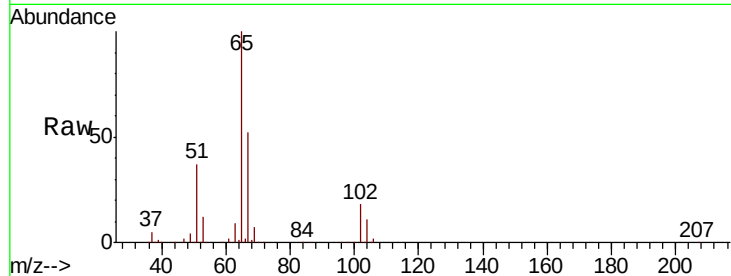




#33
 1,2-Dichloroethane-d4
 Concen: 51.614 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058794.D
 Acq: 16 Oct 2019 12:30

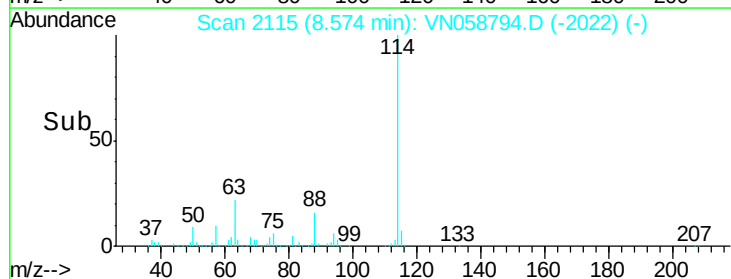
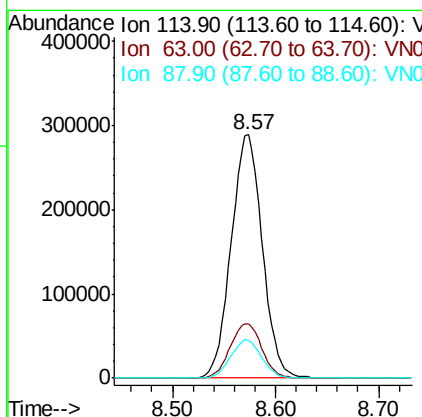
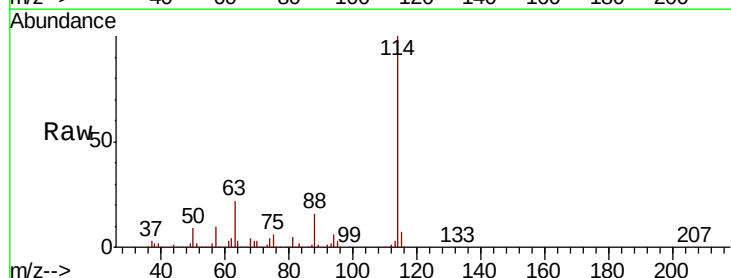
Instrument :
 MSVOA_N
 ClientSampled :

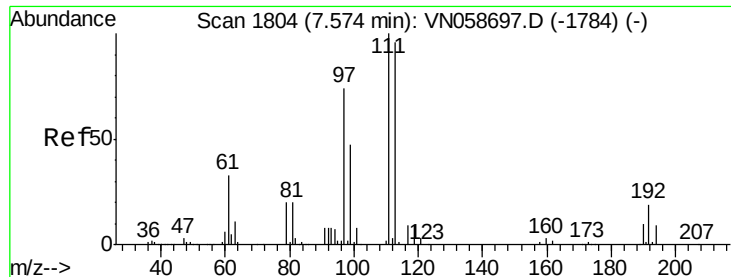
Tot Ion: 65 Resp: 273817
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058794.D
 Acq: 16 Oct 2019 12:30

Tgt Ion: 114 Resp: 608097
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.8
 88 15.6 0.0 32.0

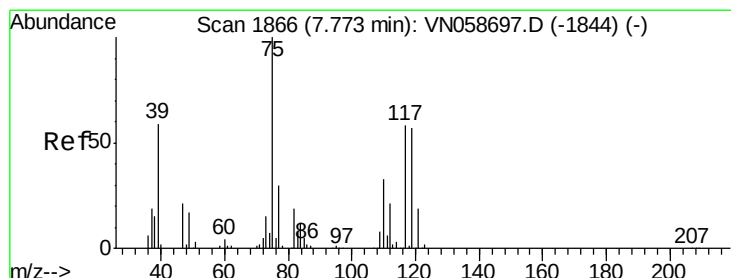
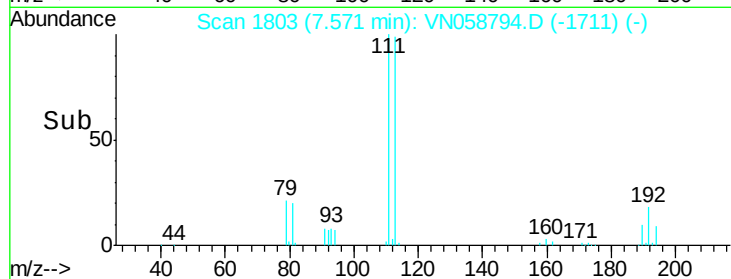
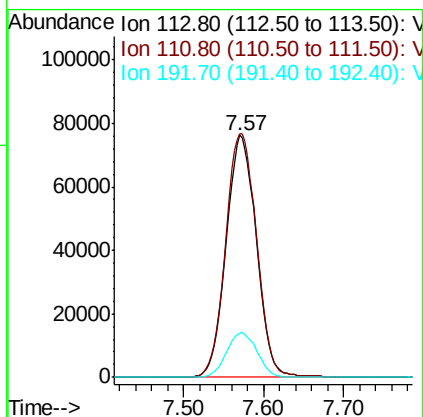
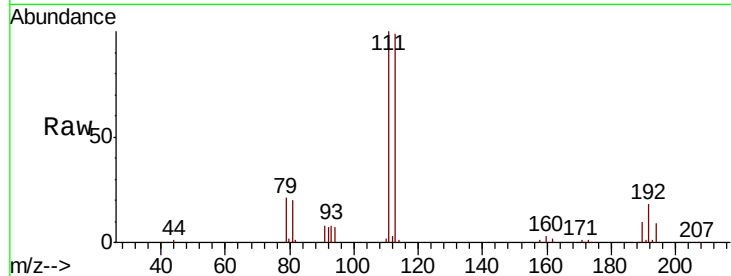




#35
Dibromofluoromethane
Concen: 52.158 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN058794.D
Acq: 16 Oct 2019 12:30

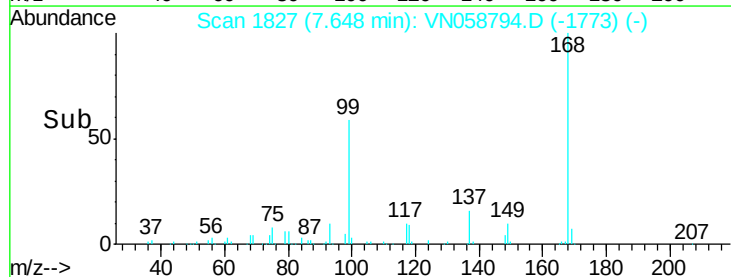
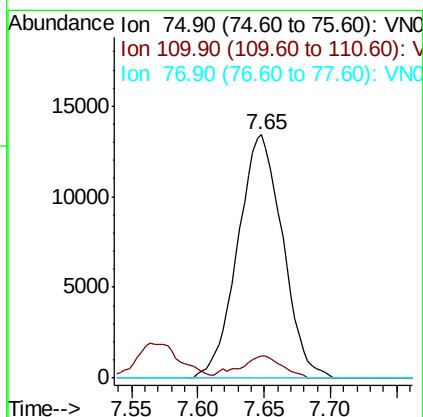
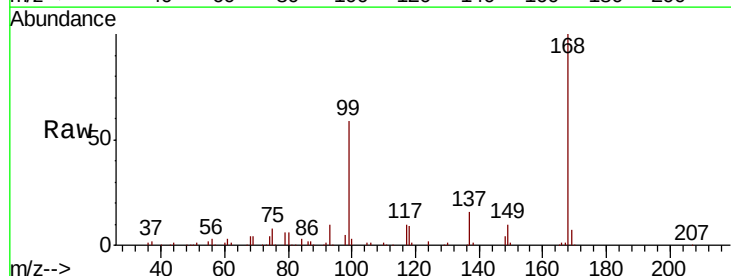
Instrument :
MSVOA_N
ClientSampled :

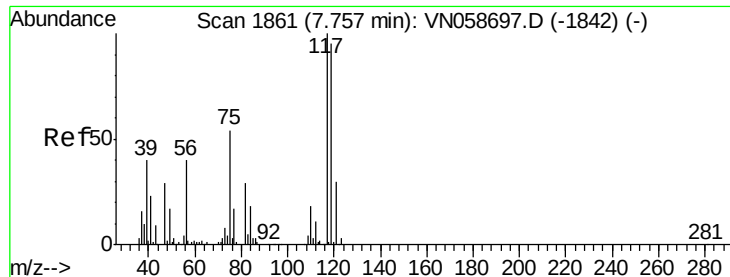
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.3	123.5
192	18.5	15.0	22.6



#36
1,1-Dichloropropene
Concen: 5.147 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058794.D
Acq: 16 Oct 2019 12:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.6	49.8#
77	0.0	24.6	37.0#

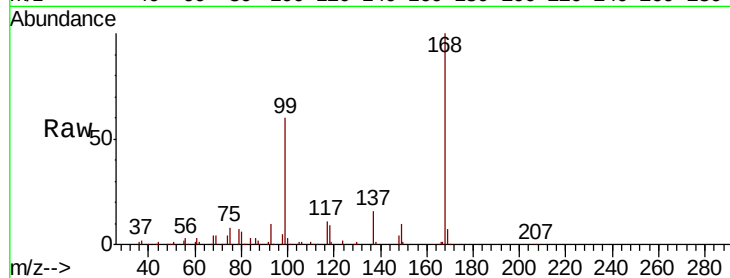




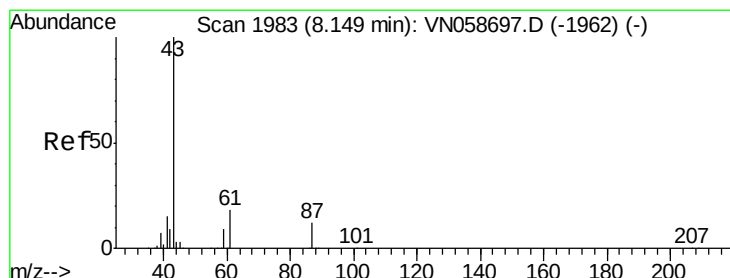
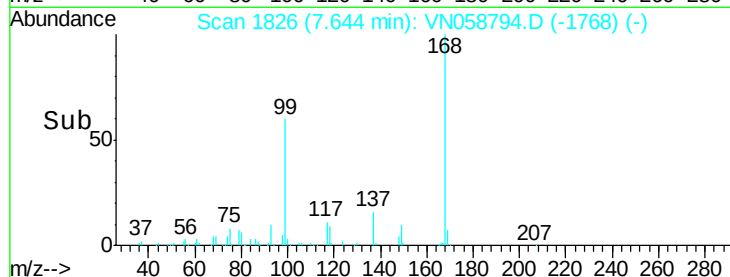
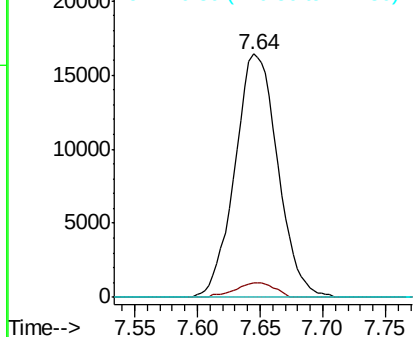
#38
Carbon Tetrachloride
Concen: 6.513 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN058794.D
Acq: 16 Oct 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 39028
Ion Ratio Lower Upper
117 100
119 6.0 75.7 113.5#
121 0.0 23.9 35.9#

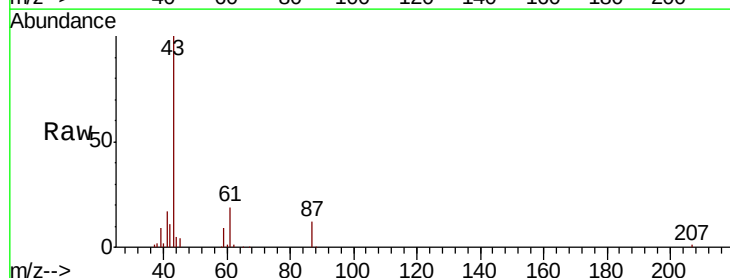


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

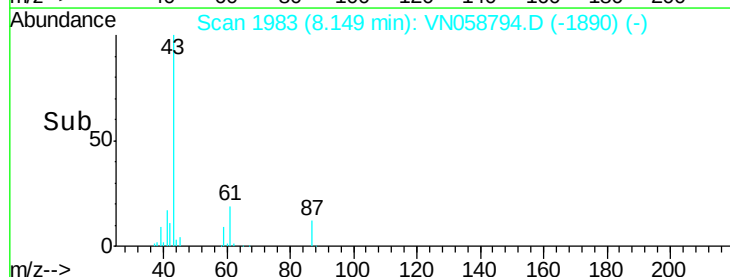
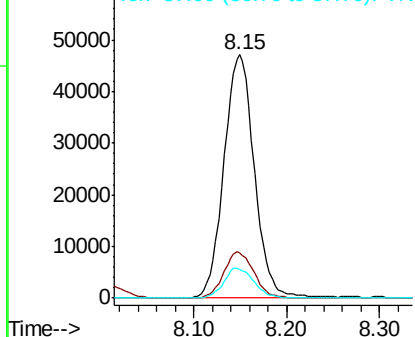


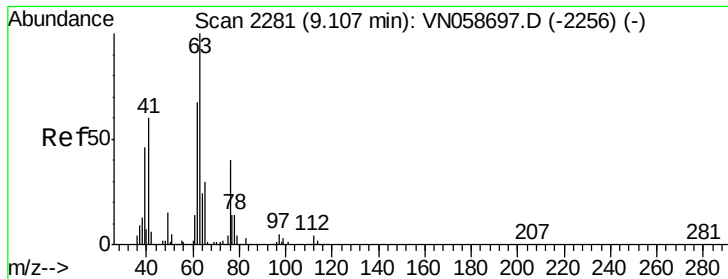
#43
Isopropyl Acetate
Concen: 10.115 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058794.D
Acq: 16 Oct 2019 12:30

Tgt Ion: 43 Resp: 107141
Ion Ratio Lower Upper
43 100
61 18.8 20.3 30.5#
87 12.1 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

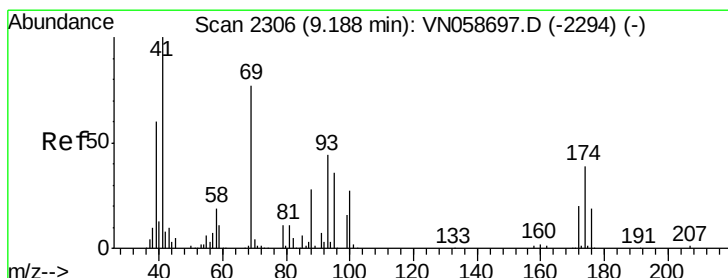
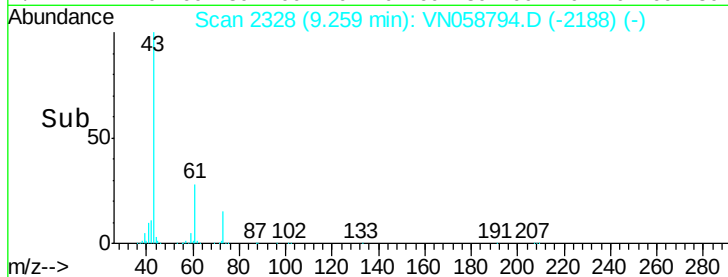
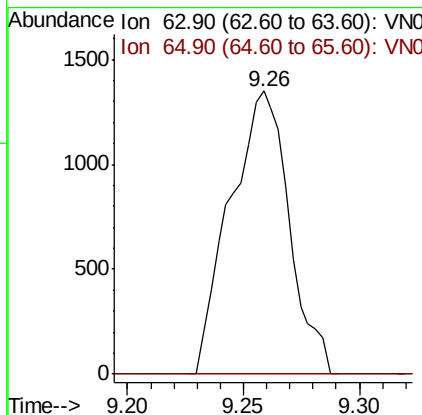
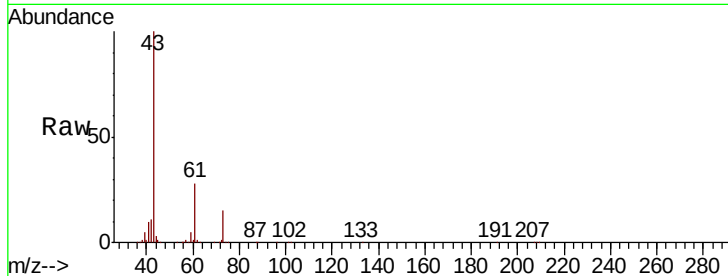




#45
 1,2-Dichloropropane
 Concen: 0.506 ug/l
 RT: 9.26 min Scan# 2328
 Delta R.T. 0.15 min
 Lab File: VN058794.D
 Acq: 16 Oct 2019 12:30

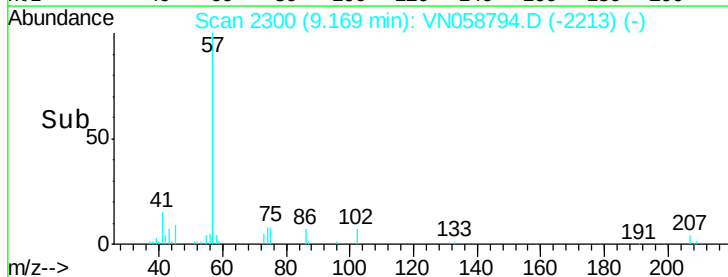
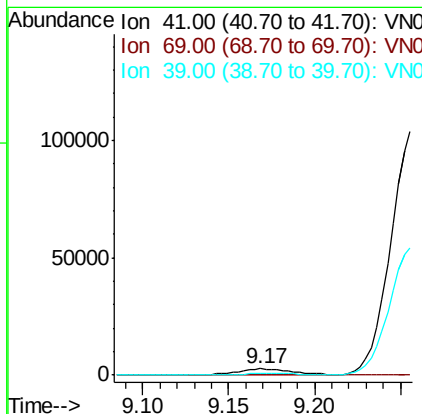
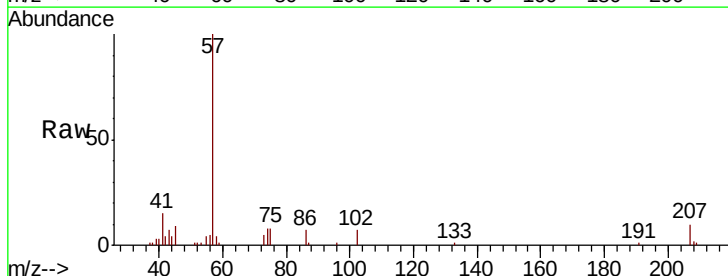
Instrument :
 MSVOA_N
 ClientSampled :

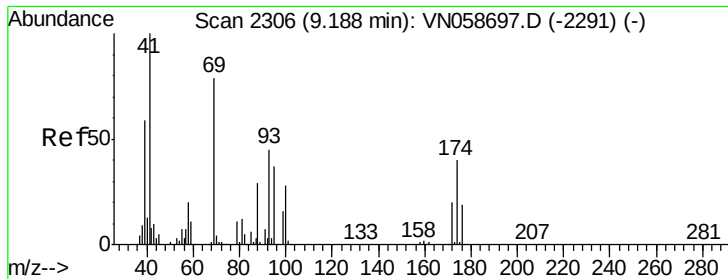
Tot Ion: 63 Resp: 2392
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.1 36.1#



#48
 Methyl methacrylate
 Concen: 1.280 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.02 min
 Lab File: VN058794.D
 Acq: 16 Oct 2019 12:30

Tgt Ion: 41 Resp: 6148
 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: 2.854 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.06 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

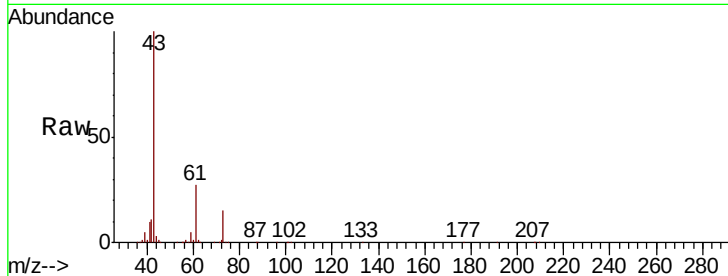
Tot Ion: 88 Resp: 212

Ion Ratio Lower Upper

88 100

43 908035.4 28.6 43.0#

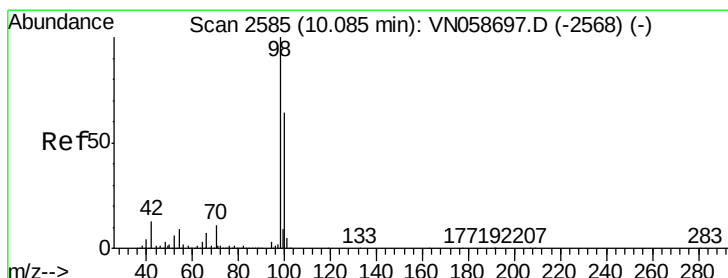
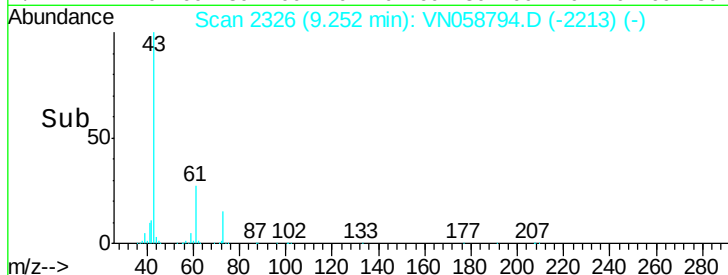
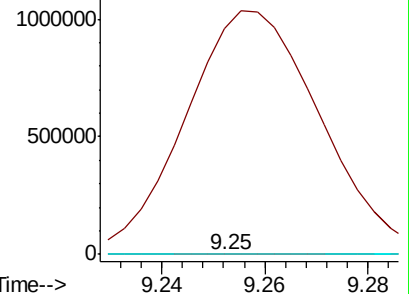
58 4344.3 57.2 85.8#



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: 51.828 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058794.D

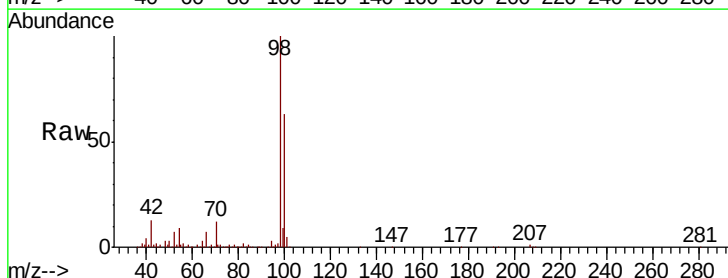
Acq: 16 Oct 2019 12:30

Tgt Ion: 98 Resp: 778464

Ion Ratio Lower Upper

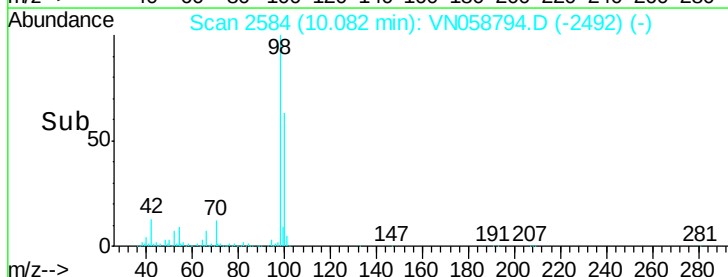
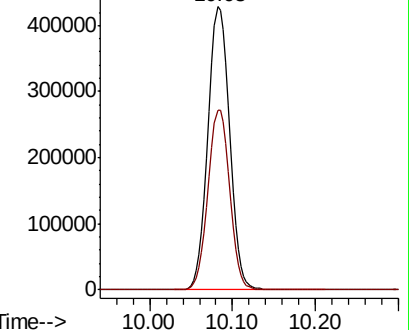
98 100

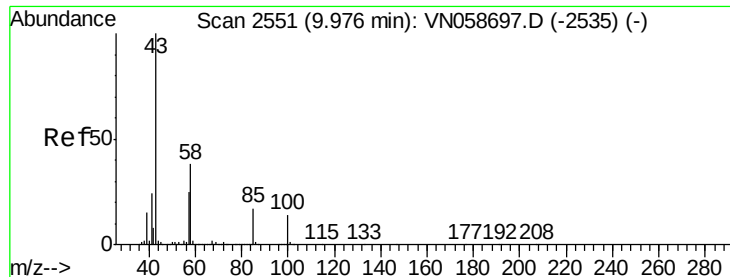
100 63.4 51.1 76.7



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: 1.196 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

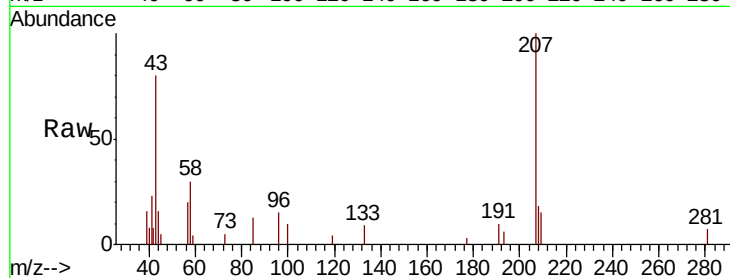
ClientSampled :

Tot Ion: 43 Resp: 7117

Ion Ratio Lower Upper

43 100

58 37.4 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

20000

15000

10000

5000

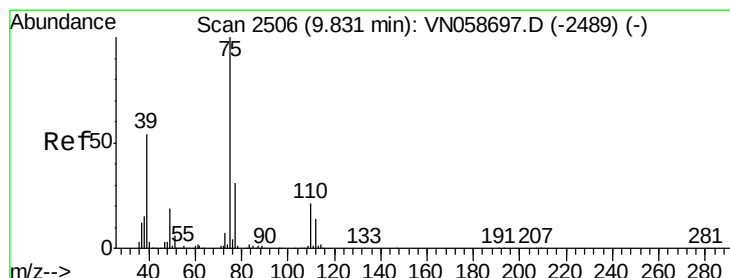
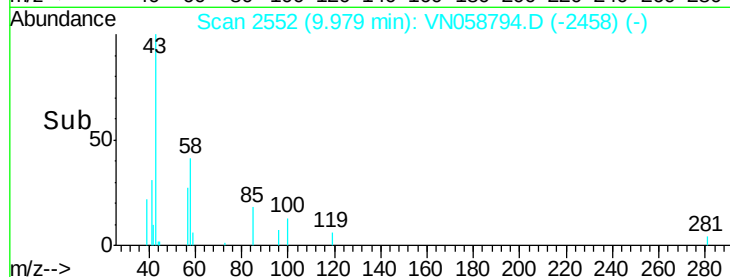
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.032 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.07 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

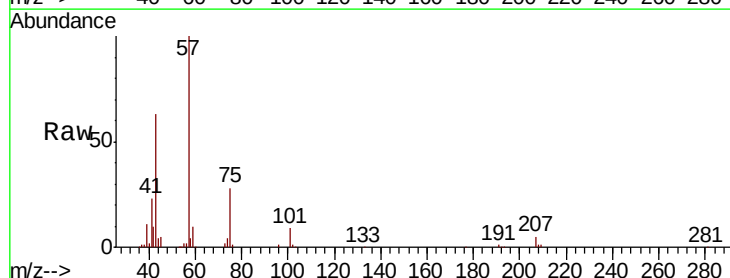
Tgt Ion: 75 Resp: 44831

Ion Ratio Lower Upper

75 100

77 0.0 24.4 36.6#

39 39.1 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

30000

20000

10000

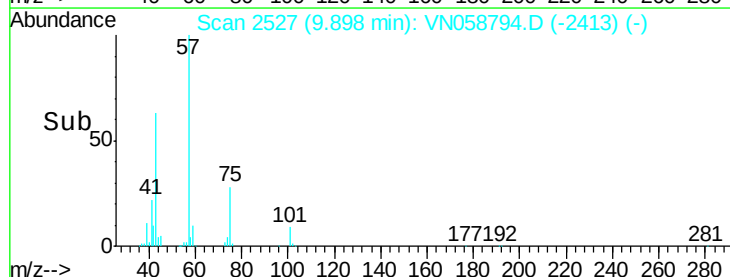
0

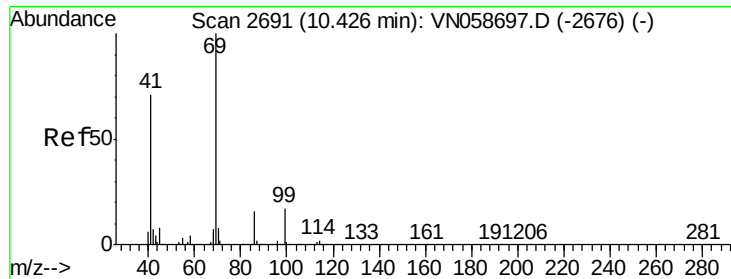
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.354 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

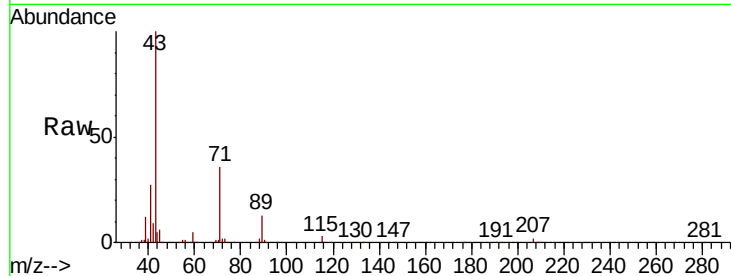
Tot Ion: 69 Resp: 2284

Ion Ratio Lower Upper

69 100

41 4724.0 56.8 85.2#

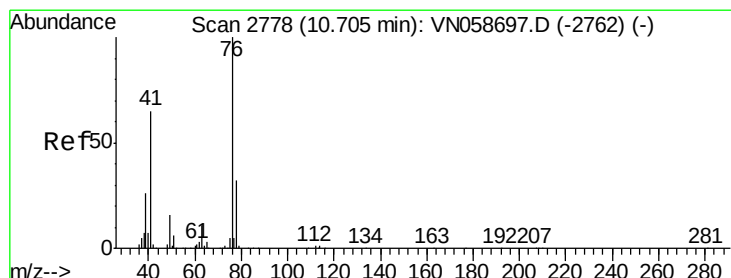
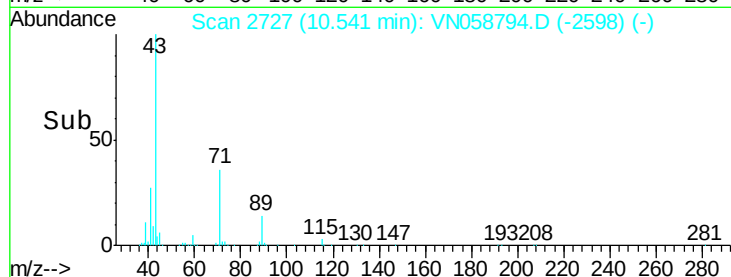
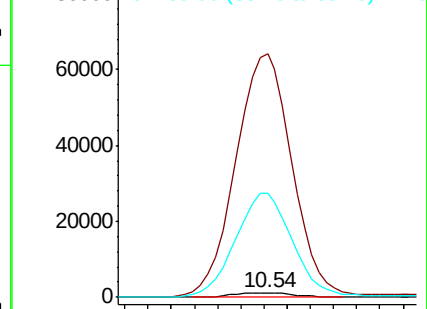
39 2066.0 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.054 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058794.D

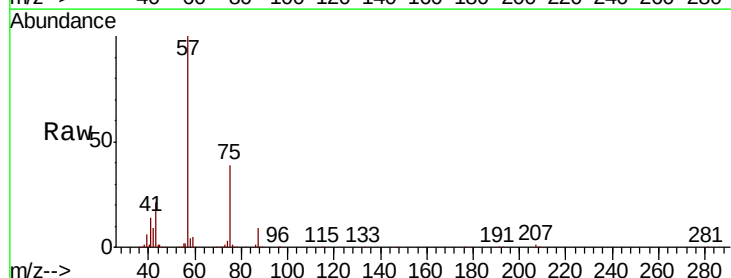
Acq: 16 Oct 2019 12:30

Tgt Ion: 76 Resp: 7940

Ion Ratio Lower Upper

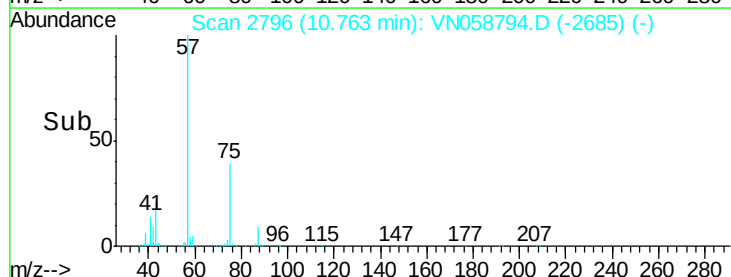
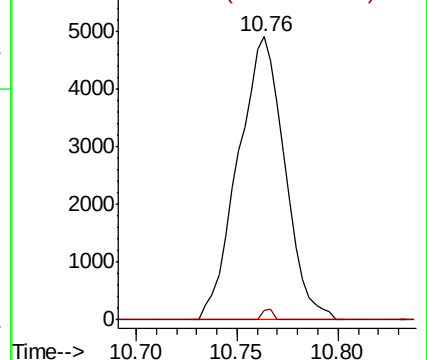
76 100

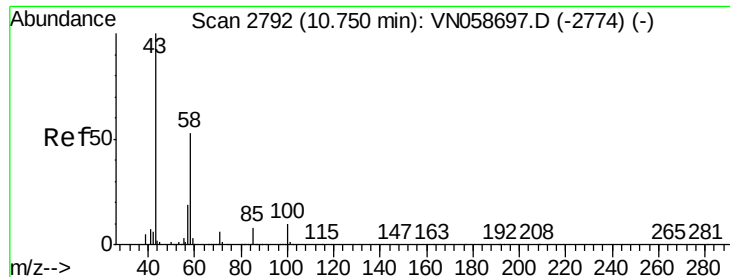
78 0.8 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 27.312 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

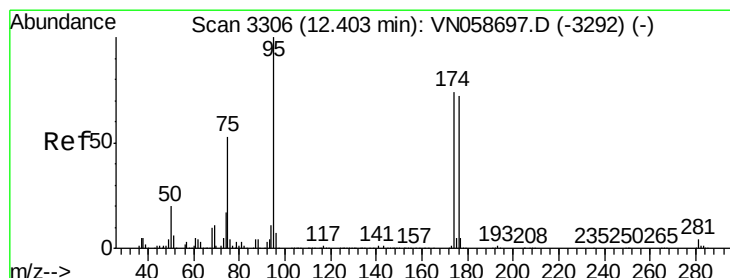
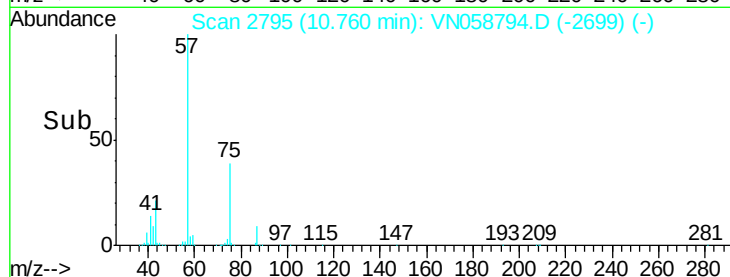
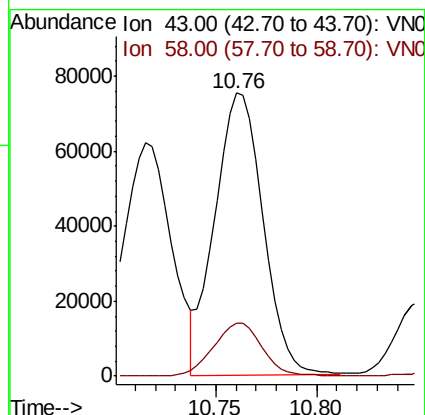
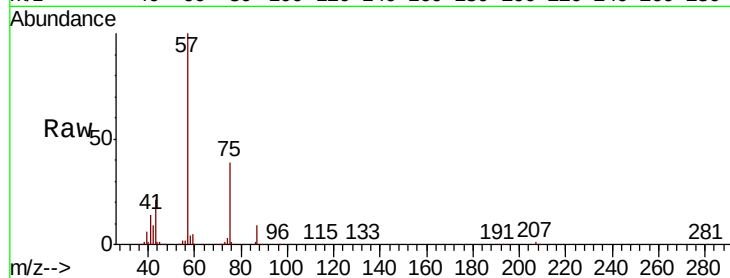
ClientSampled :

Tot Ion: 43 Resp: 125562

Ion Ratio Lower Upper

43 100

58 18.9 26.1 78.3#



#62

4-Bromofluorobenzene

Concen: 43.873 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

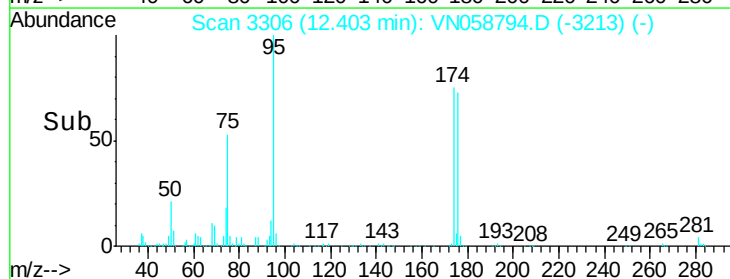
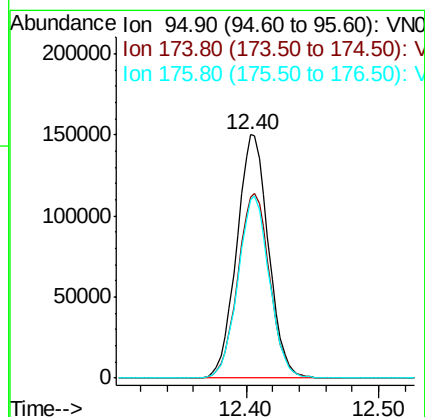
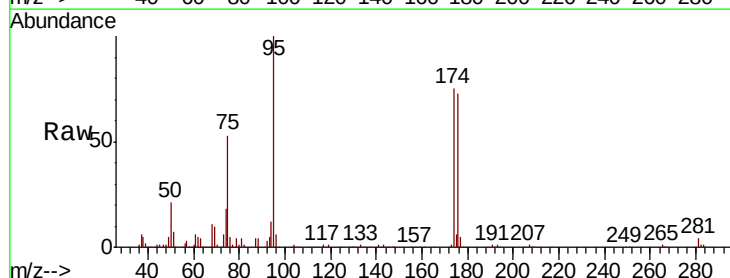
Tgt Ion: 95 Resp: 249440

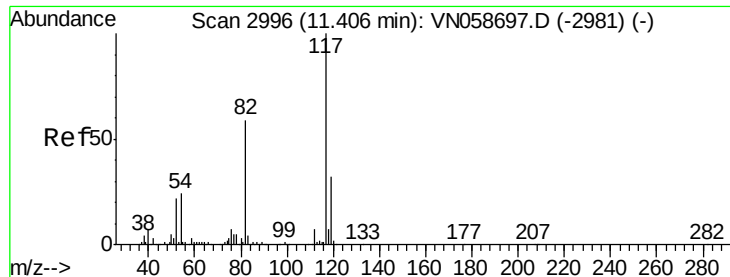
Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.4

176 73.9 0.0 146.8

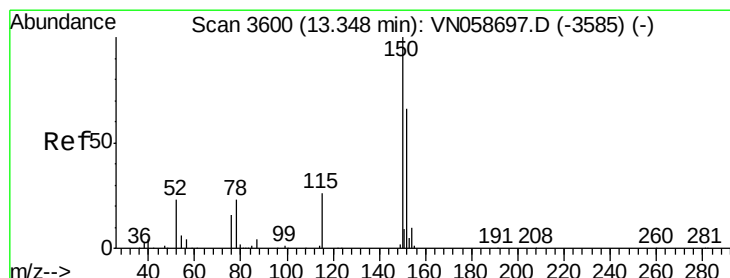
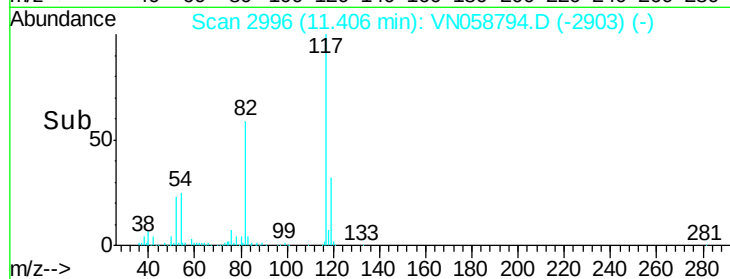
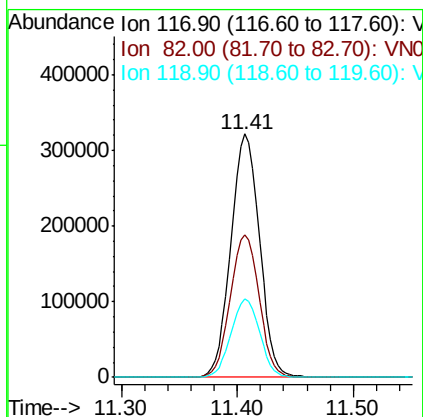
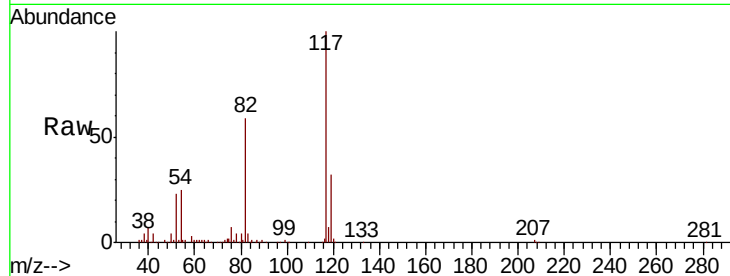




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058794.D
Acq: 16 Oct 2019 12:30

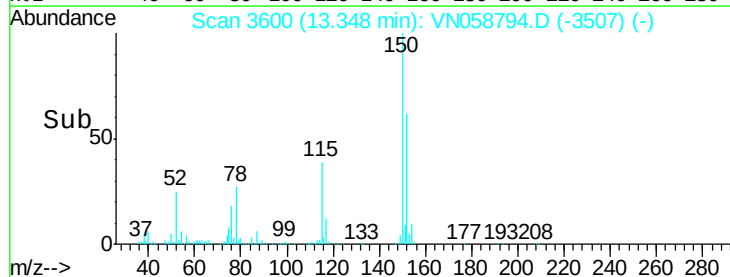
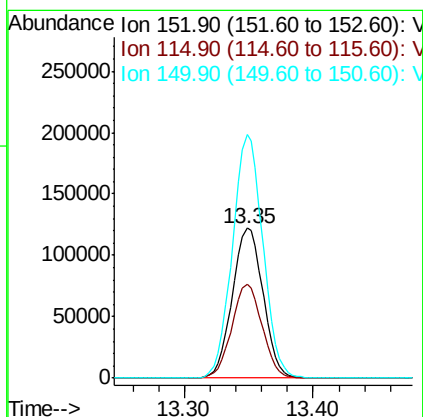
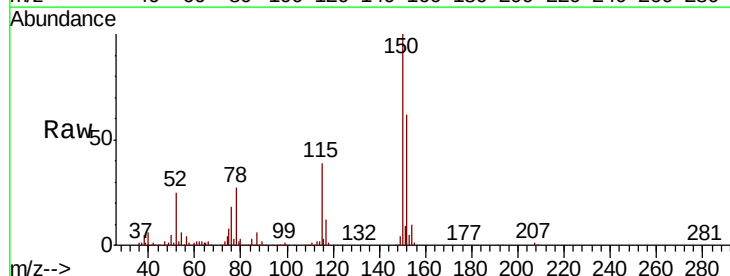
Instrument :
MSVOA_N
ClientSampleId :

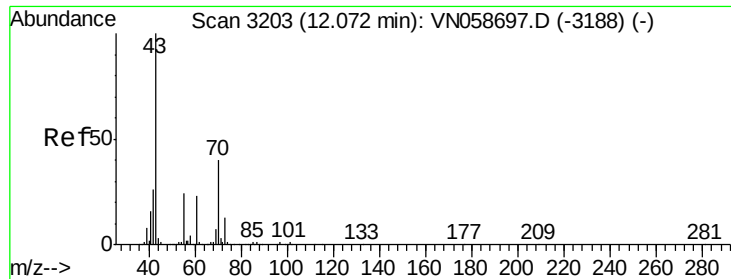
Tot Ion:117 Resp: 549987
Ion Ratio Lower Upper
117 100
82 58.6 47.0 70.4
119 32.0 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058794.D
Acq: 16 Oct 2019 12:30

Tgt Ion:152 Resp: 203486
Ion Ratio Lower Upper
152 100
115 61.8 30.4 91.2
150 160.1 0.0 345.4





#74

N-amvl acetate

Concen: 0.592 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3917

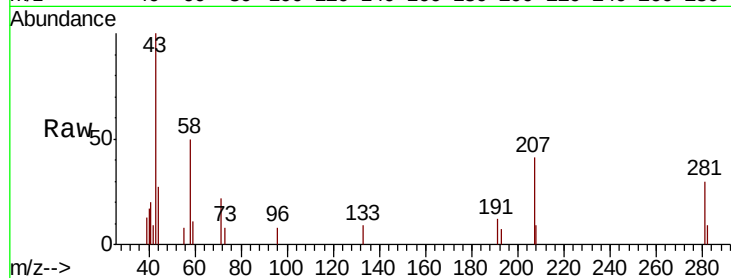
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 6.1 19.6 29.4#

61 0.0 18.6 28.0#

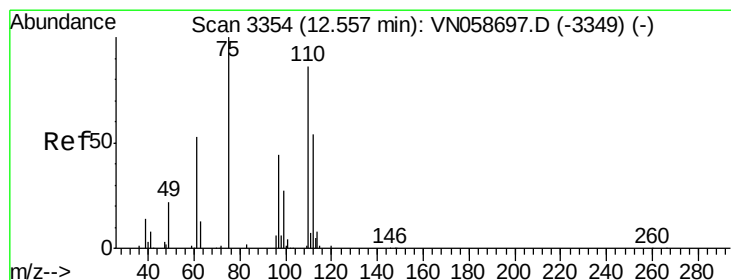
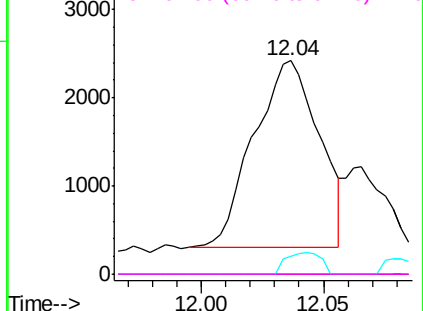
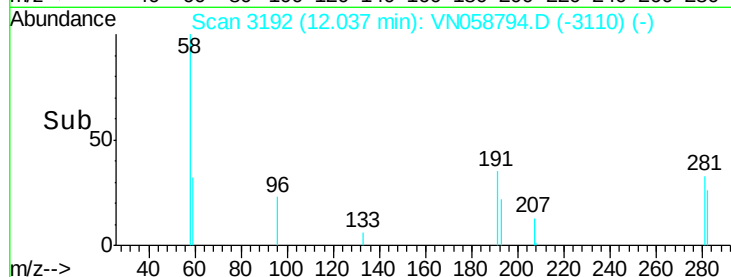


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 30.142 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058794.D

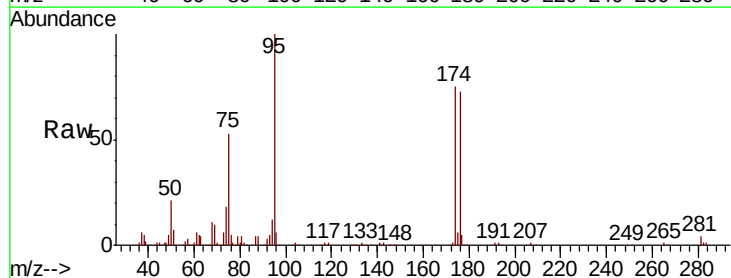
Acq: 16 Oct 2019 12:30

Tgt Ion: 75 Resp: 134552

Ion Ratio Lower Upper

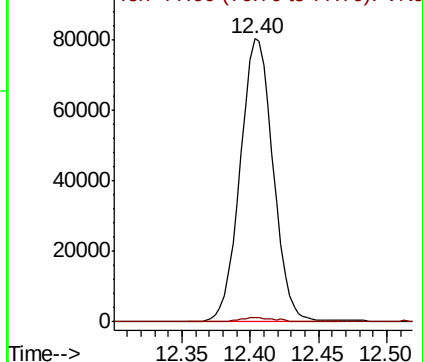
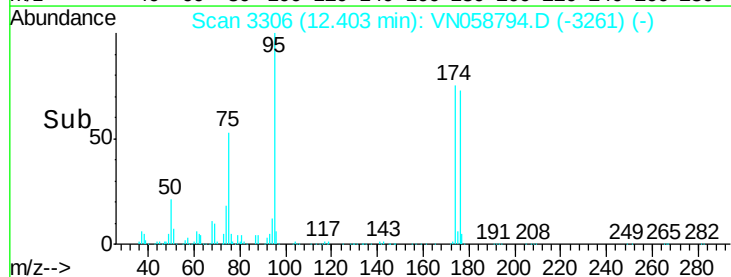
75 100

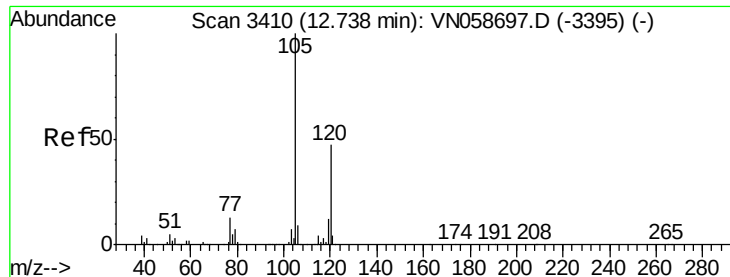
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#80

1,3,5-Trimethylbenzene

Concen: 0.956 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

Instrument :

MSVOA_N

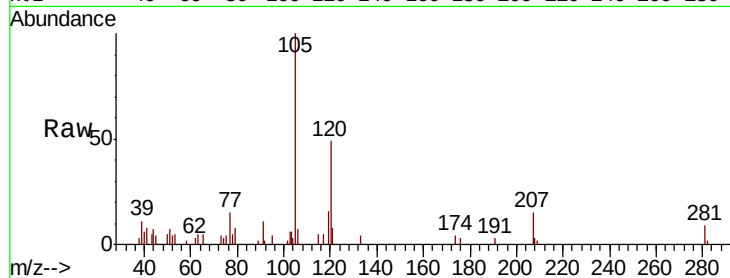
ClientSampleId :

Tot Ion:105 Resp: 12028

Ion Ratio Lower Upper

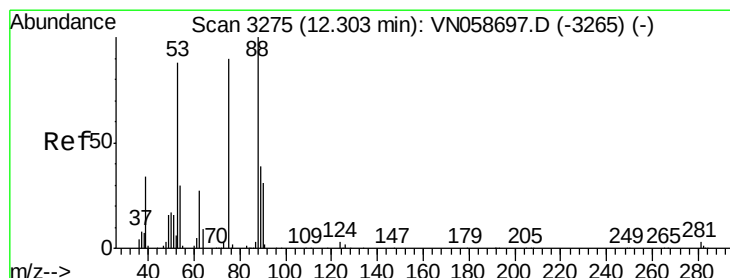
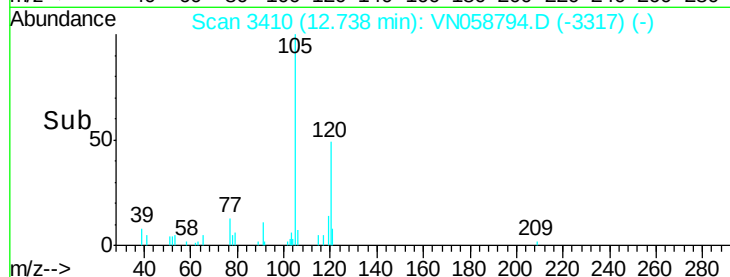
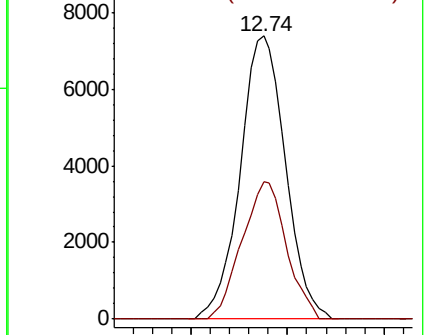
105 100

120 47.6 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 80.740 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058794.D

Acq: 16 Oct 2019 12:30

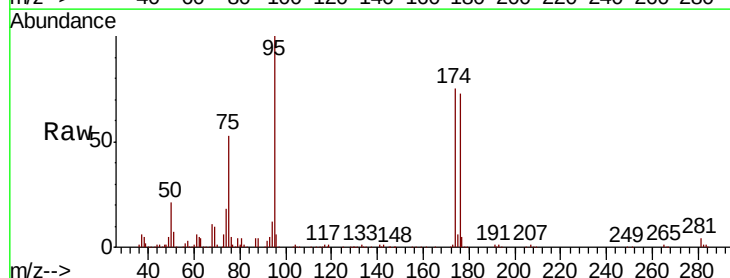
Tgt Ion: 75 Resp: 134552

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

