

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058072.D
 Acq On : 14 Sep 2019 12:56
 Operator : JC/SP
 Sample : K4873-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 75 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 01:59:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	312076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	556252	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	515415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	271371	50.00	ug/l	0.00

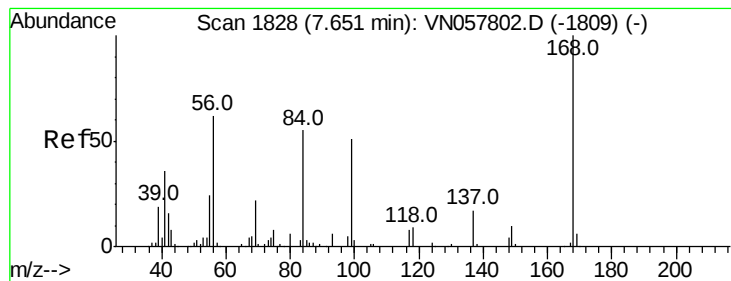
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	384281	60.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.60%	
35) Dibromofluoromethane	7.58	113	255685	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	
50) Toluene-d8	10.09	98	1025444	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.40	95	336933	44.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.72%	

Target Compounds

					Qvalue
5) Bromomethane	2.56	94	238	Below Cal	99
8) Diethyl Ether	3.38	74	511	0.209 ug/l #	1
16) Acetone	3.80	43	15408	7.436 ug/l	98
18) Methyl Acetate	4.32	43	9586	1.735 ug/l	97
20) Methylene Chloride	4.53	84	88020	21.615 ug/l	96
25) 2-Butanone	6.83	43	1812	0.604 ug/l #	76
29) Tetrahydrofuran	7.19	42	527	0.285 ug/l #	34
30) Chloroform	7.36	83	2389	0.274 ug/l #	72
31) Cyclohexane	7.65	56	8716	Below Cal #	28
36) 1,1-Dichloropropene	7.65	75	26592	4.122 ug/l #	52
38) Carbon Tetrachloride	7.65	117	31829	5.404 ug/l #	16
40) Benzene	8.03	78	7304	0.376 ug/l	91
43) Isopropyl Acetate	8.15	43	128843	11.495 ug/l #	85
45) 1,2-Dichloropropane	9.26	63	1747	0.309 ug/l #	44
48) Methyl methacrylate	9.18	41	6979	1.227 ug/l #	13
49) 1,4-Dioxane	9.25	88	75	0.780 ug/l #	23
51) 4-Methyl-2-Pentanone	9.98	43	7502	1.131 ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	42861	5.406 ug/l #	66
56) Ethyl methacrylate	10.54	69	1690	0.217 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6902	0.773 ug/l #	43
59) 2-Hexanone	10.76	43	102168	20.550 ug/l #	53
73) Isopropylbenzene	12.25	105	7510	0.357 ug/l	94
74) N-amyl acetate	12.03	43	4955	0.541 ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	187172	30.490 ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187172	107.293 ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

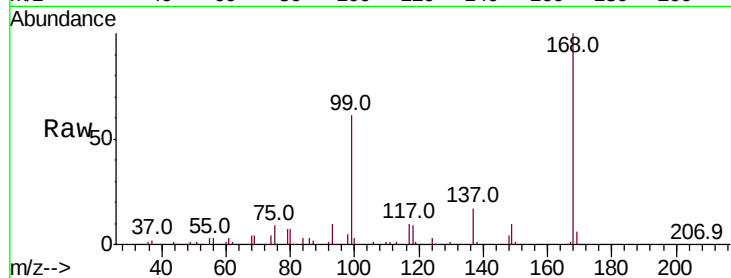
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 312076

Ion Ratio Lower Upper

168 100

99 60.6 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

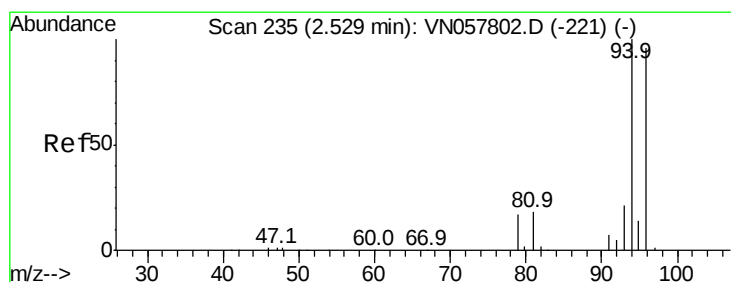
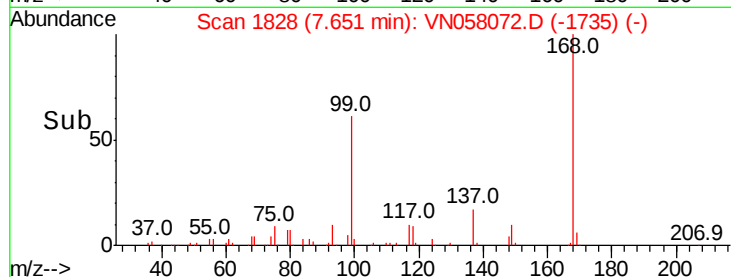
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. 0.03 min

Lab File: VN058072.D

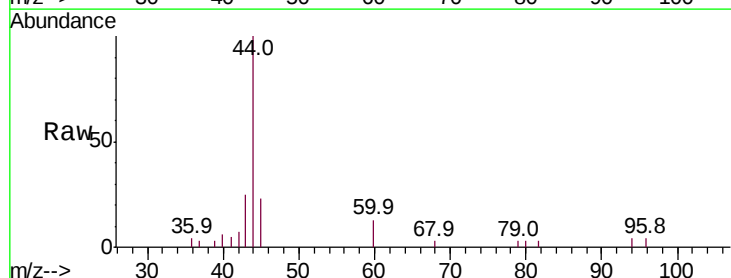
Acq: 14 Sep 2019 12:56

Tgt Ion: 94 Resp: 238

Ion Ratio Lower Upper

94 100

96 95.5 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

300

250

200

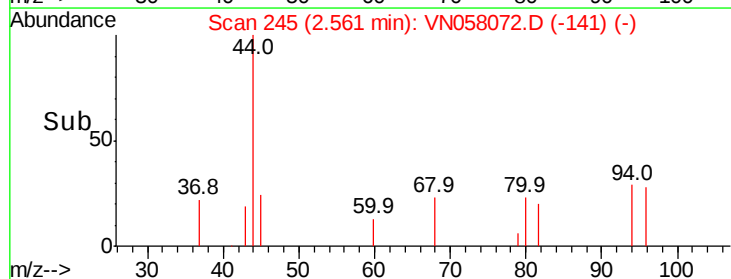
150

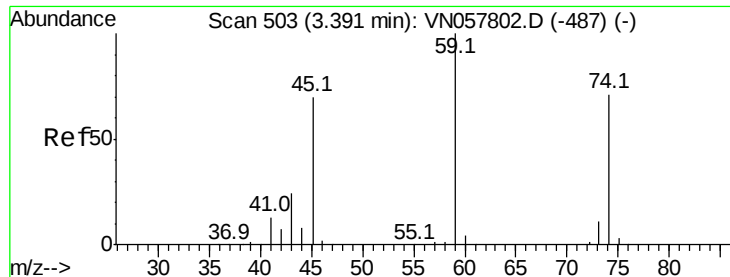
100

50

0

Time-->





#8

Diethyl Ether

Concen: 0.209 ug/l

RT: 3.38 min Scan# 501

Delta R.T. -0.01 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

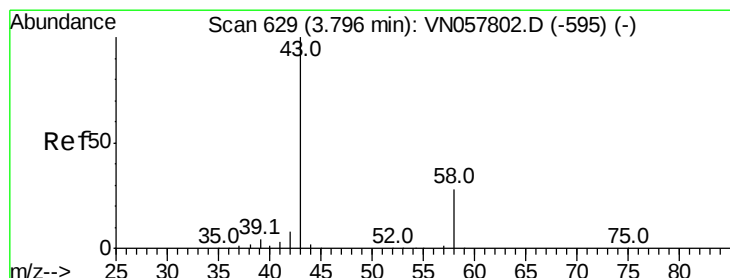
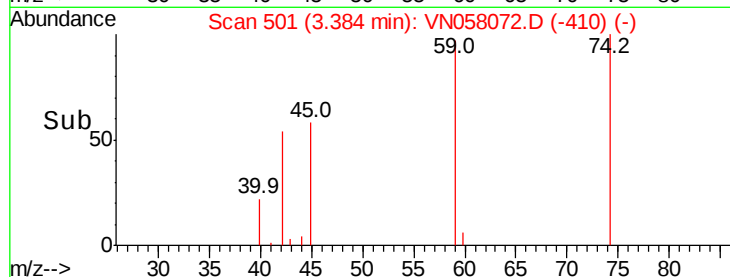
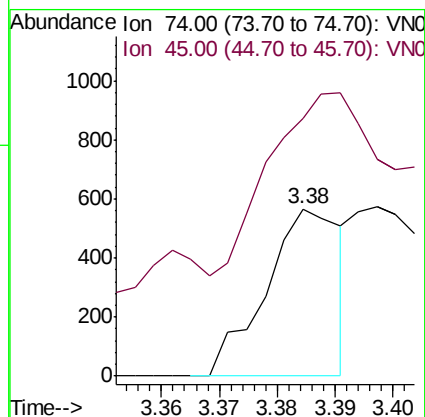
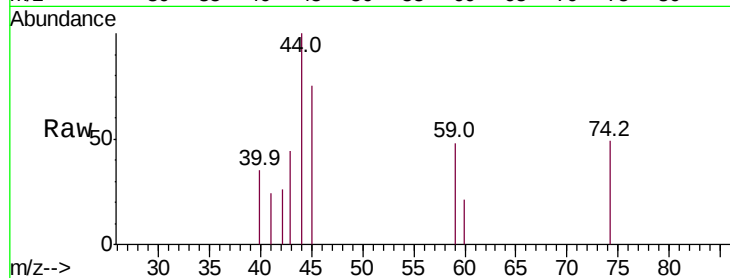
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 74 Resp: 511

Ion Ratio Lower Upper

74 100

45 227.6 50.3 151.0#



#16

Acetone

Concen: 7.436 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058072.D

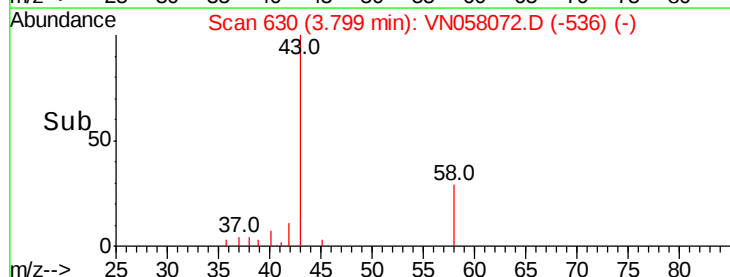
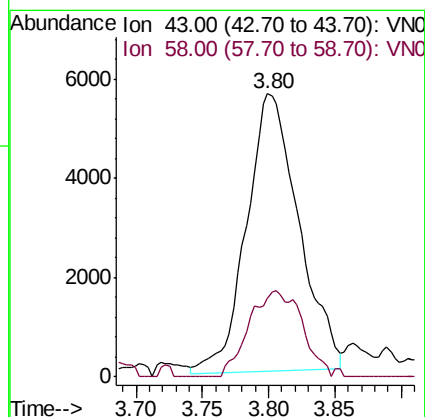
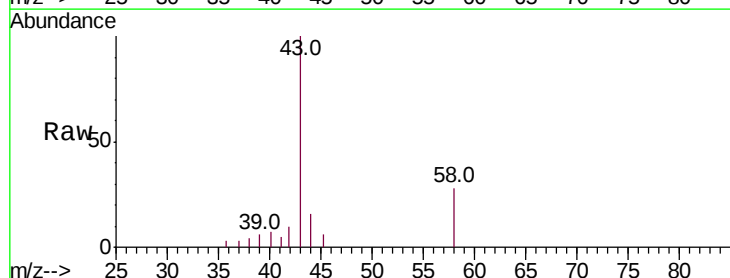
Acq: 14 Sep 2019 12:56

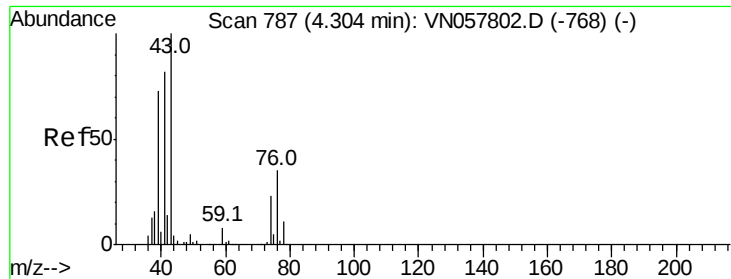
Tgt Ion: 43 Resp: 15408

Ion Ratio Lower Upper

43 100

58 28.6 22.2 33.2

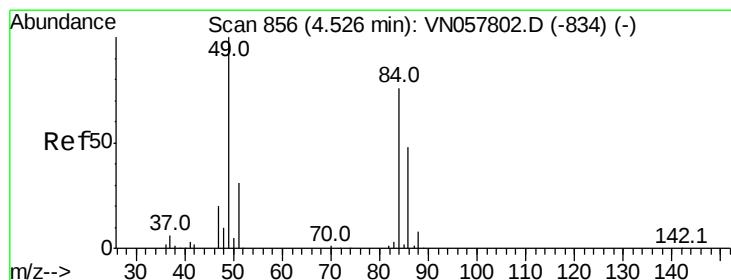
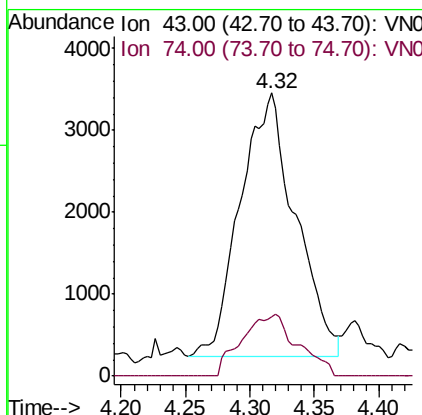
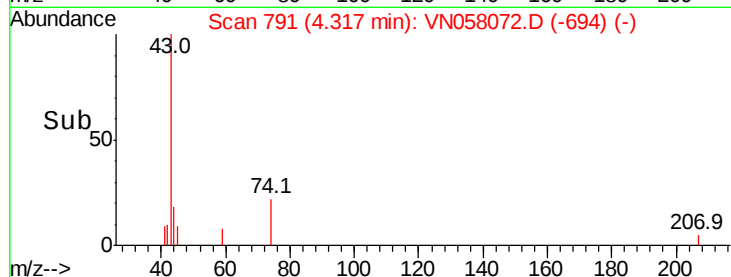
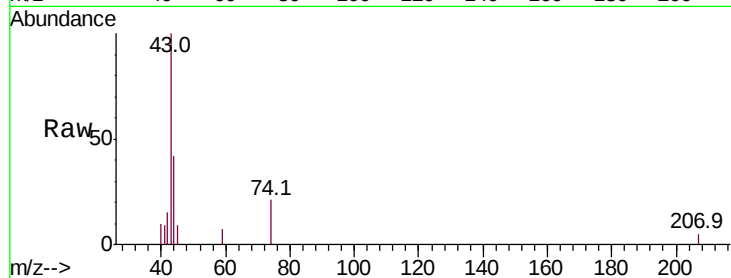




#18
Methyl Acetate
Concen: 1.735 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN058072.D
Acq: 14 Sep 2019 12:56

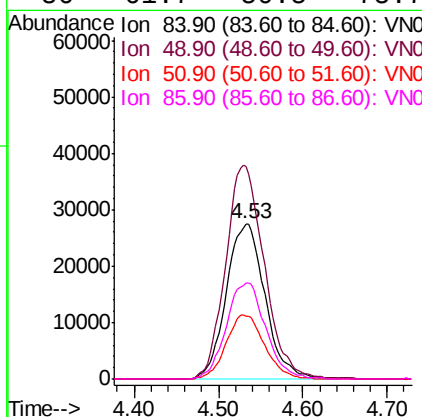
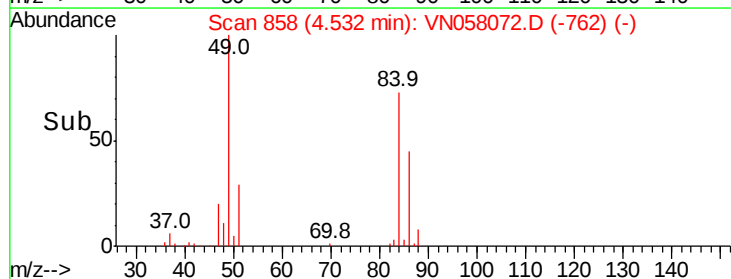
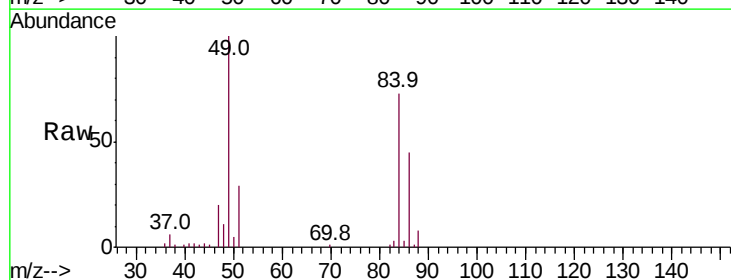
Instrument :
MSVOA_N
ClientSampled :

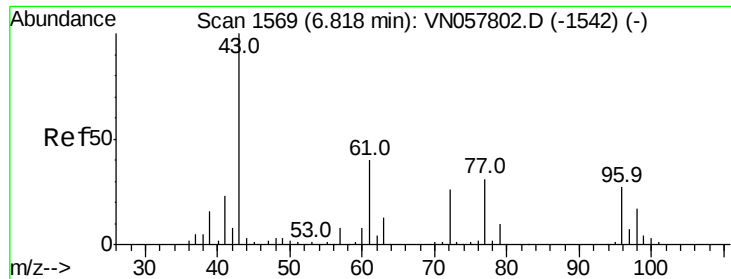
Tot Ion: 43 Resp: 9586
Ion Ratio Lower Upper
43 100
74 23.8 17.9 26.9



#20
Methylene Chloride
Concen: 21.615 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058072.D
Acq: 14 Sep 2019 12:56

Tgt Ion: 84 Resp: 88020
Ion Ratio Lower Upper
84 100
49 136.9 104.8 157.2
51 40.2 33.0 49.4
86 61.7 50.5 75.7

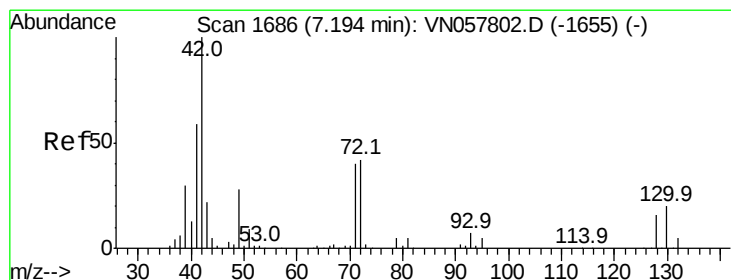
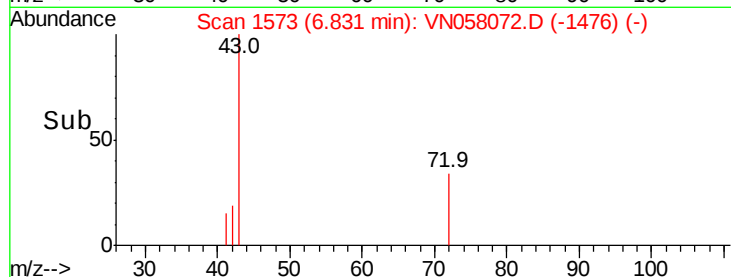
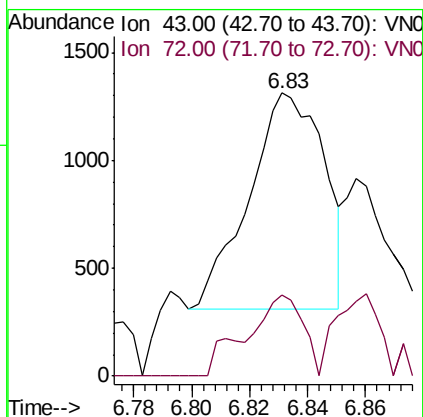
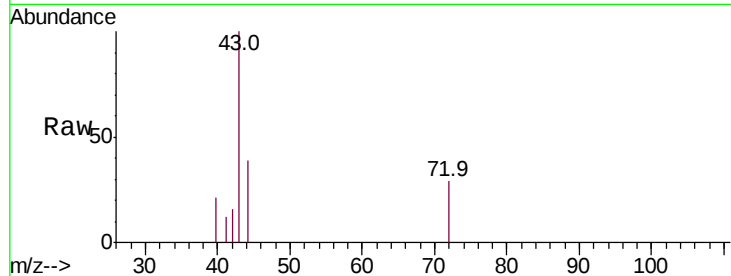




#25
2-Butanone
Concen: 0.604 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058072.D
Acq: 14 Sep 2019 12:56

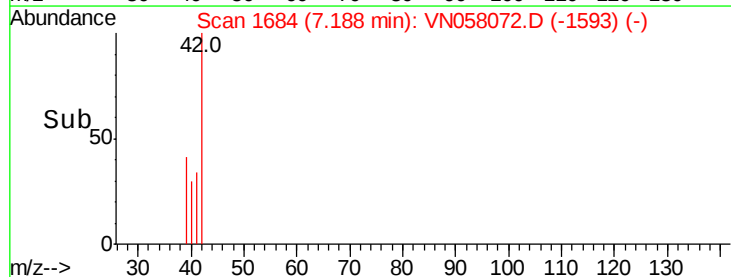
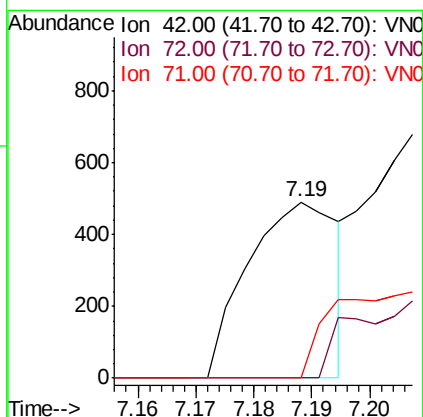
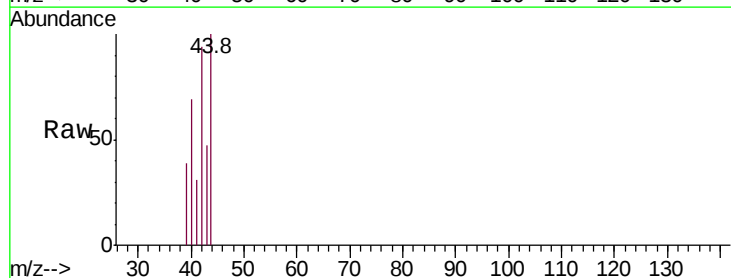
Instrument :
MSVOA_N
ClientSampled :

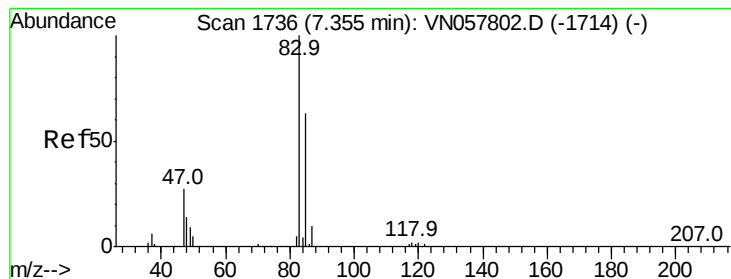
Tot Ion: 43 Resp: 1812
Ion Ratio Lower Upper
43 100
72 37.8 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.285 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. -0.01 min
Lab File: VN058072.D
Acq: 14 Sep 2019 12:56

Tgt Ion: 42 Resp: 527
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#





#30

Chloroform

Concen: 0.274 ug/l

RT: 7.36 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

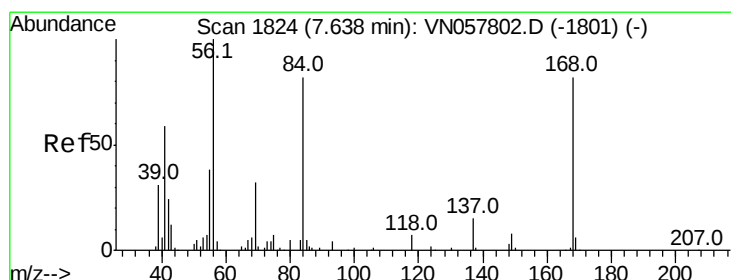
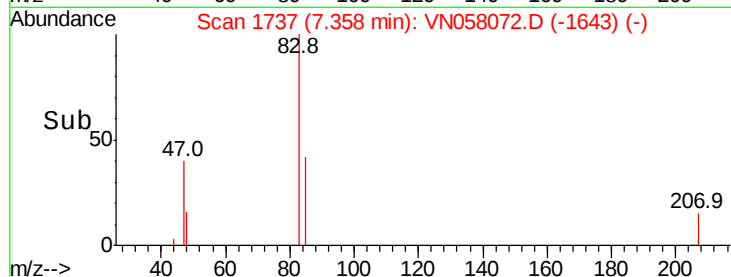
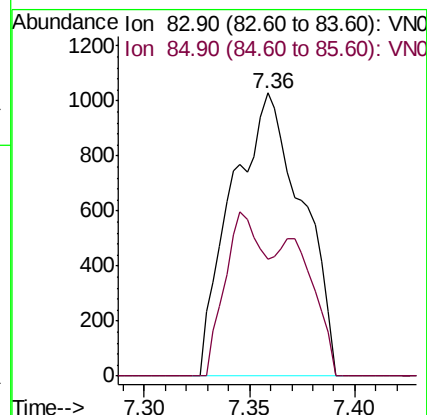
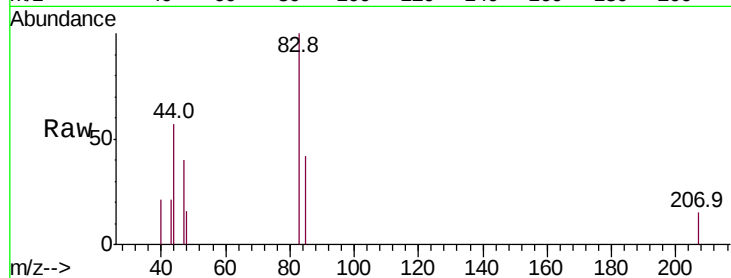
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 2389

Ion Ratio Lower Upper

83 100

85 41.5 50.6 75.8#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

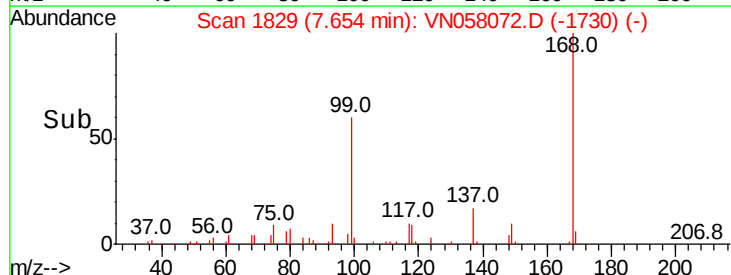
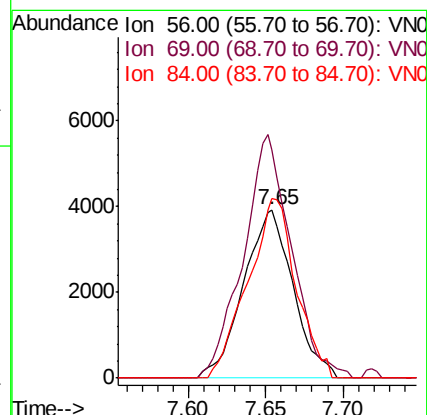
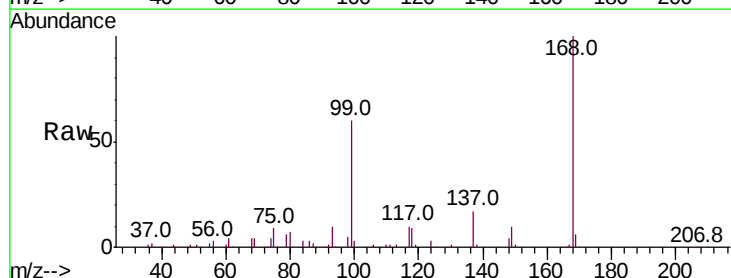
Tgt Ion: 56 Resp: 8716

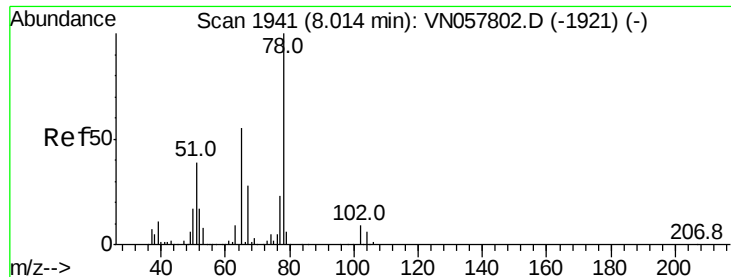
Ion Ratio Lower Upper

56 100

69 135.3 25.9 38.9#

84 106.5 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 60.796 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

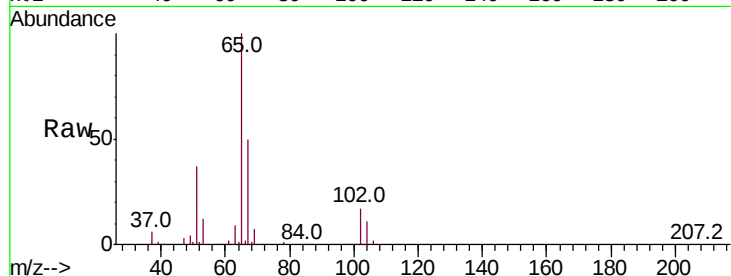
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 384281

Ion Ratio Lower Upper

65 100

67 50.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

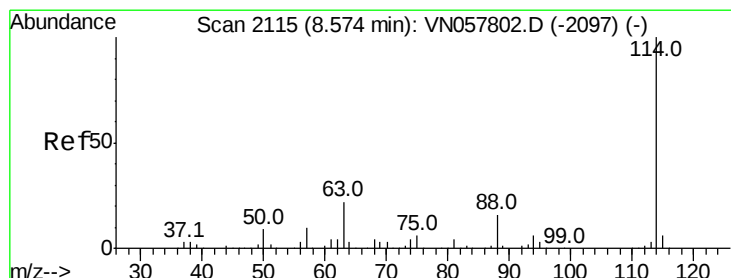
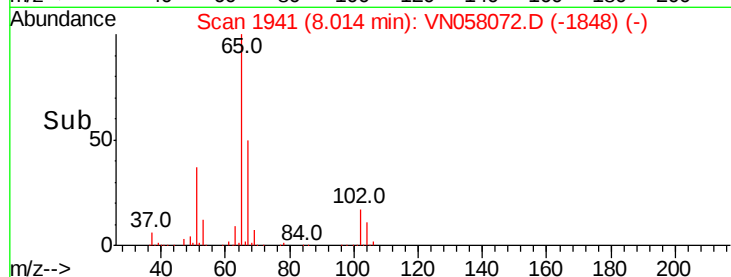
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

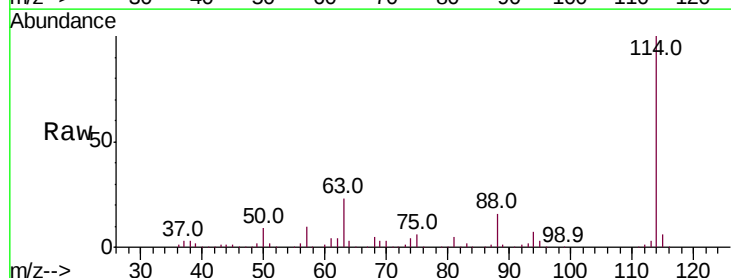
Tgt Ion: 114 Resp: 556252

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.0

88 15.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.58

300000

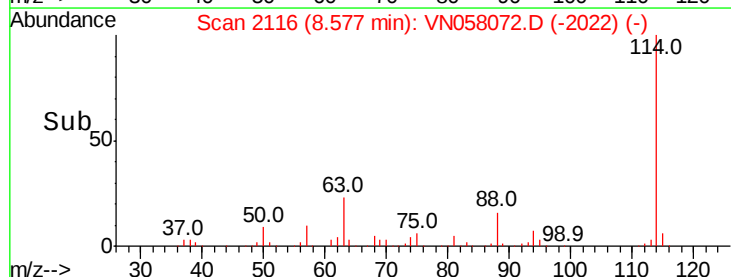
200000

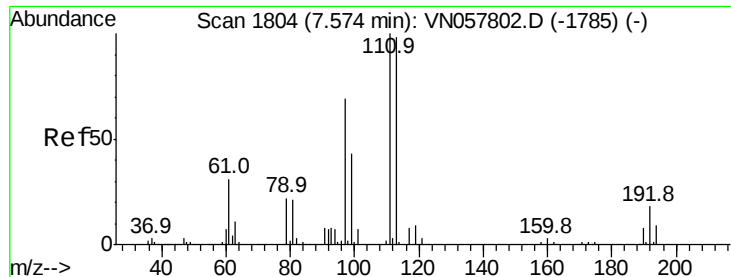
100000

0

8.50 8.60 8.70

Time-->

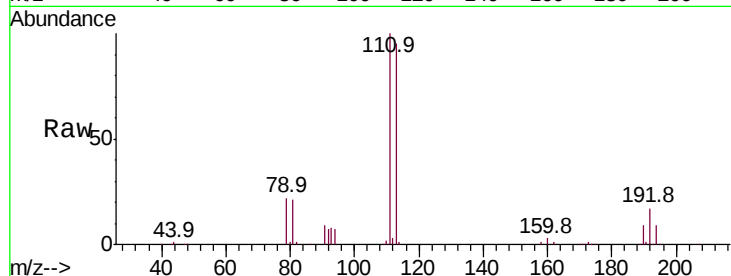




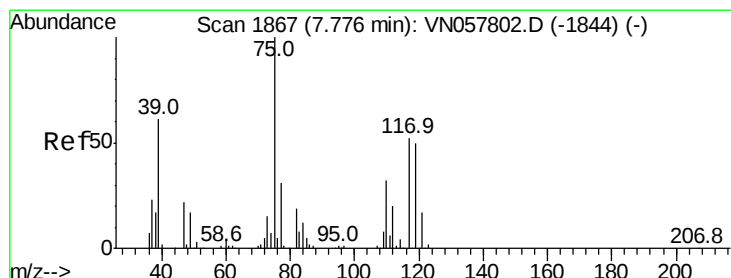
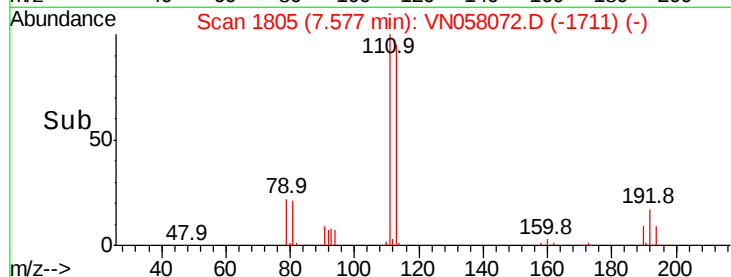
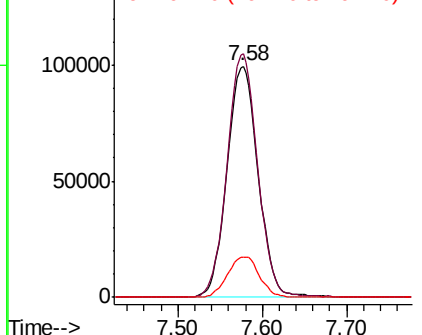
#35
 Dibromofluoromethane
 Concen: 49.802 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058072.D
 Acq: 14 Sep 2019 12:56

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 255685
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.3 121.9
 192 18.0 14.6 22.0

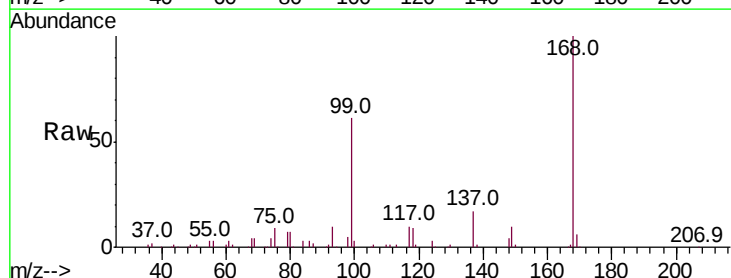


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

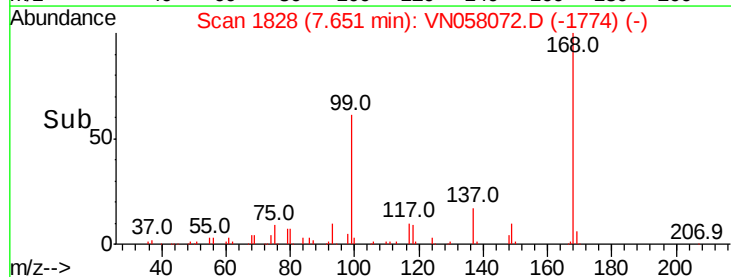
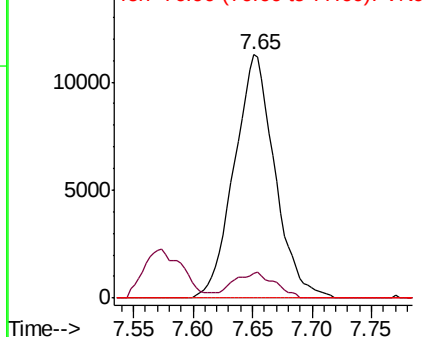


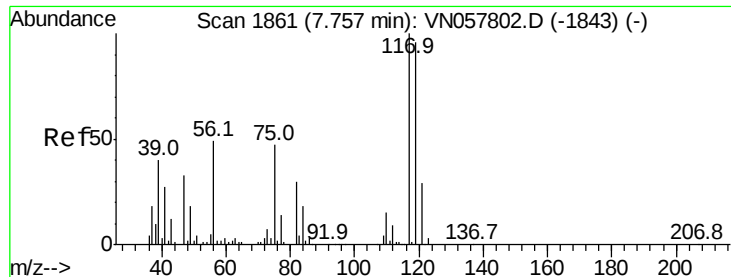
#36
 1,1-Dichloropropene
 Concen: 4.122 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058072.D
 Acq: 14 Sep 2019 12:56

Tgt Ion: 75 Resp: 26592
 Ion Ratio Lower Upper
 75 100
 110 10.8 16.3 48.9#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.404 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

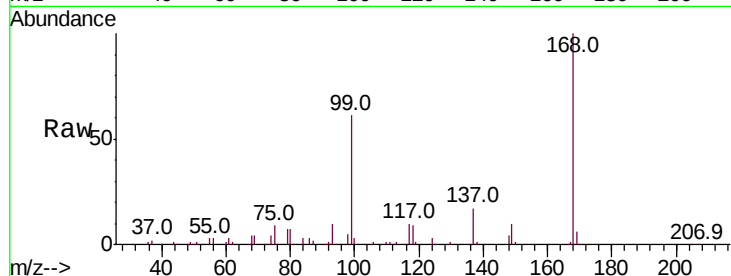
Tot Ion:117 Resp: 31829

Ion Ratio Lower Upper

117 100

119 5.5 76.9 115.3#

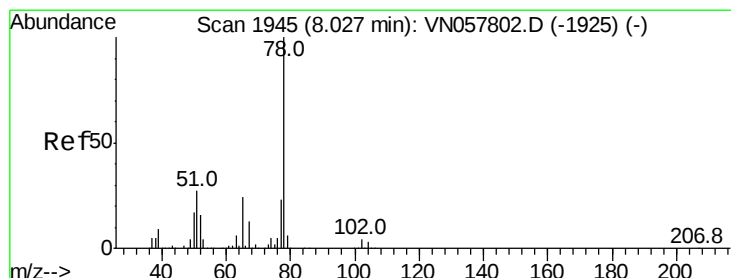
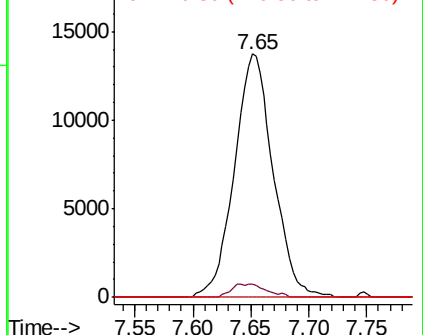
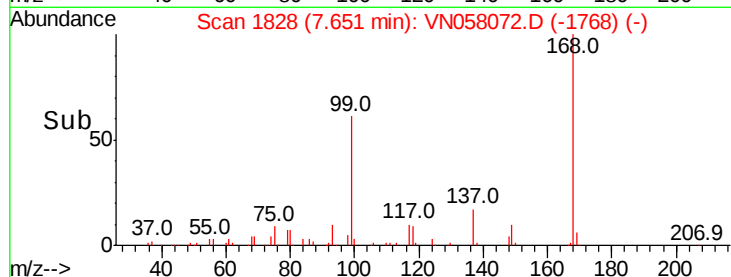
121 0.0 23.4 35.2#



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



#40

Benzene

Concen: 0.376 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058072.D

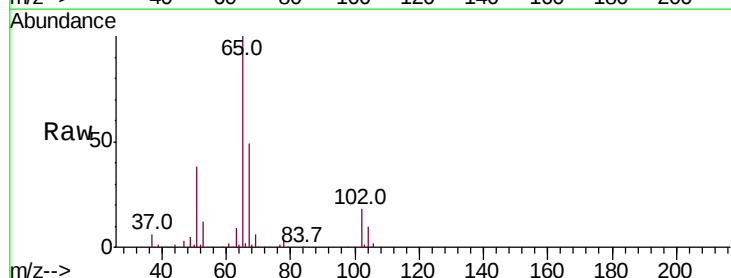
Acq: 14 Sep 2019 12:56

Tgt Ion: 78 Resp: 7304

Ion Ratio Lower Upper

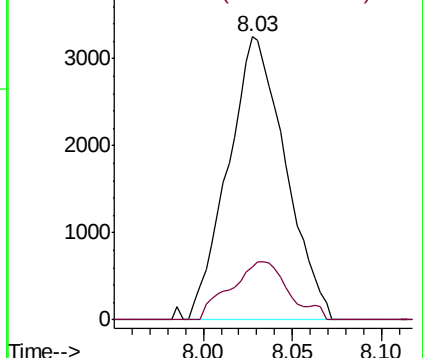
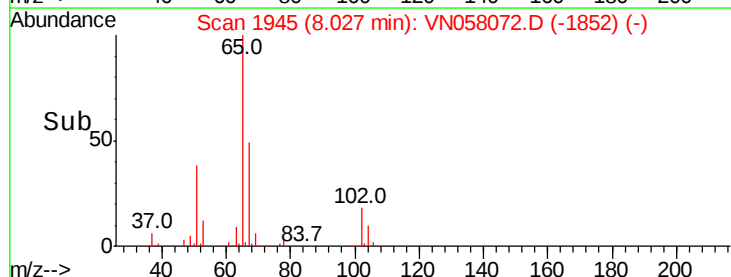
78 100

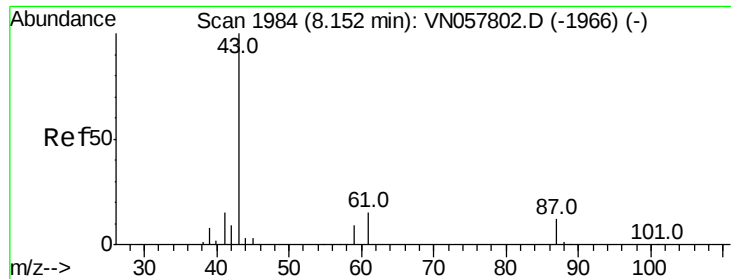
77 18.8 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V





#43

Isopropyl Acetate

Concen: 11.495 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

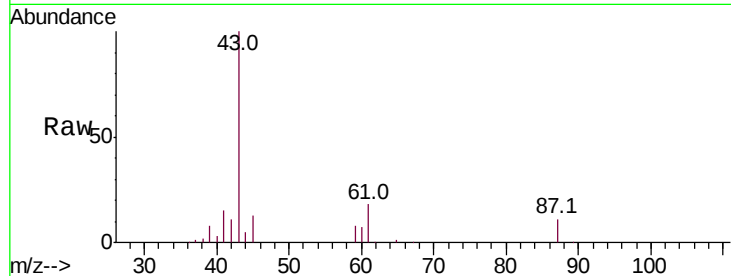
Tot Ion: 43 Resp: 128843

Ion Ratio Lower Upper

43 100

61 15.2 20.1 30.1#

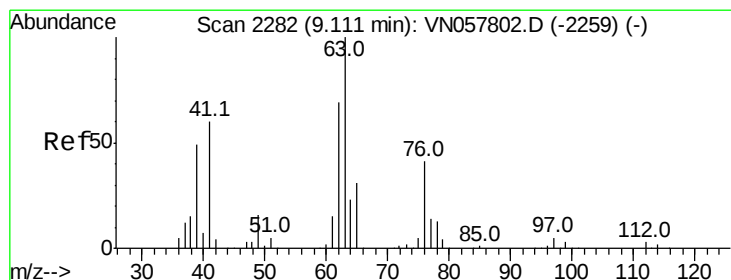
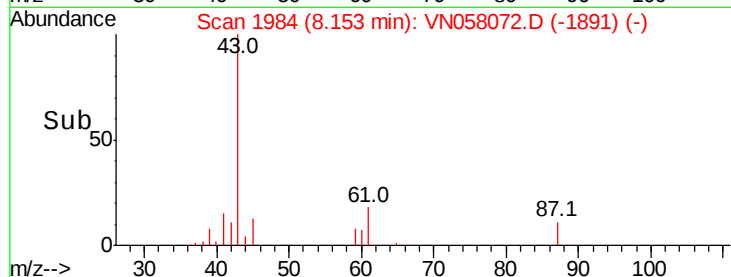
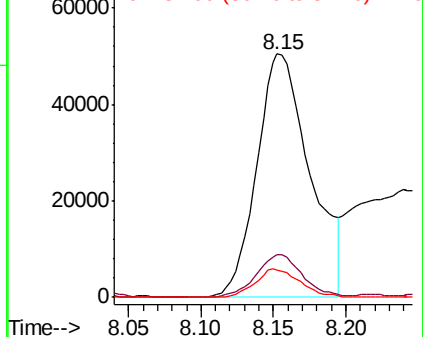
87 9.6 9.5 14.3



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: 0.309 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058072.D

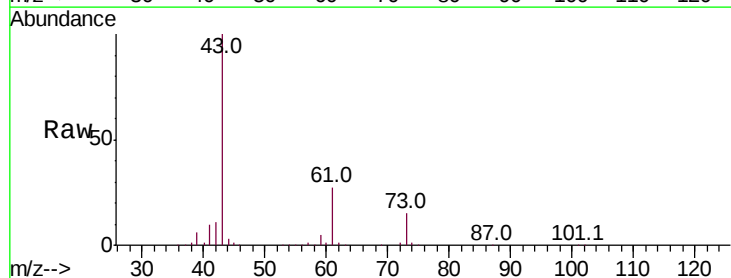
Acq: 14 Sep 2019 12:56

Tgt Ion: 63 Resp: 1747

Ion Ratio Lower Upper

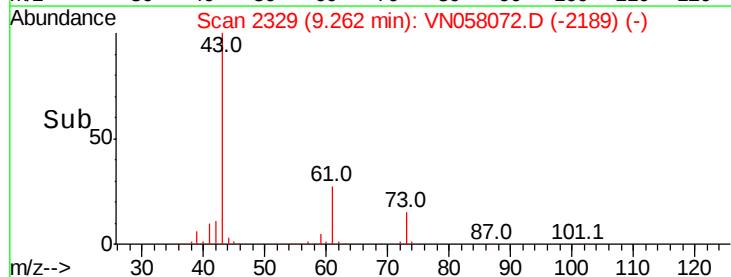
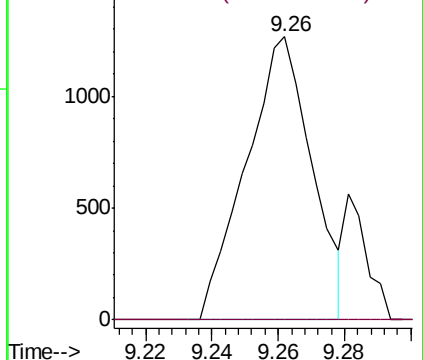
63 100

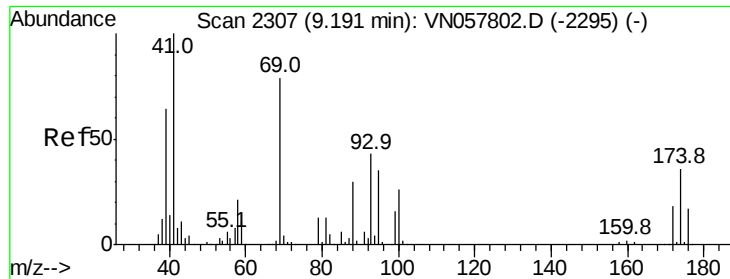
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

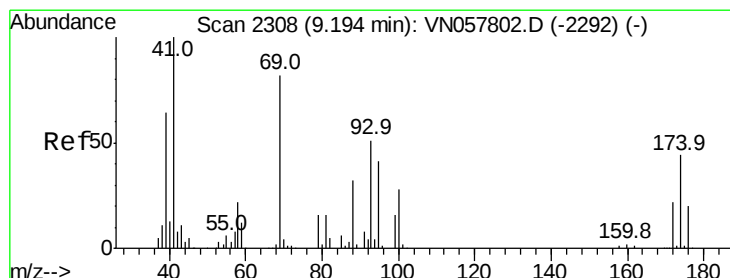
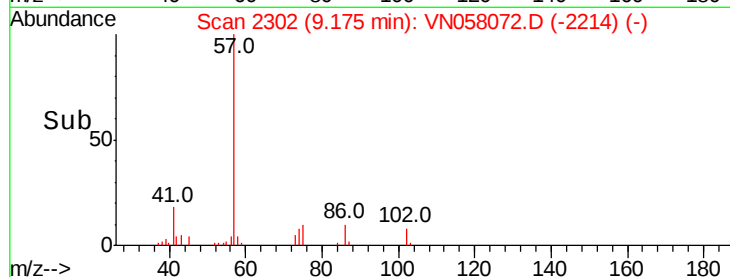
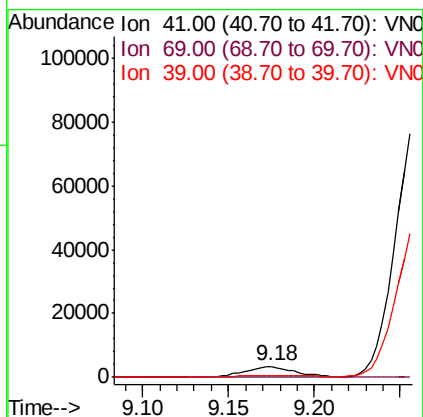
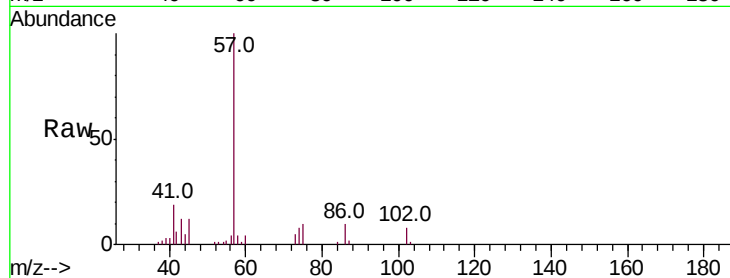




#48
Methvl methacrylate
Concen: 1.227 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058072.D
Acq: 14 Sep 2019 12:56

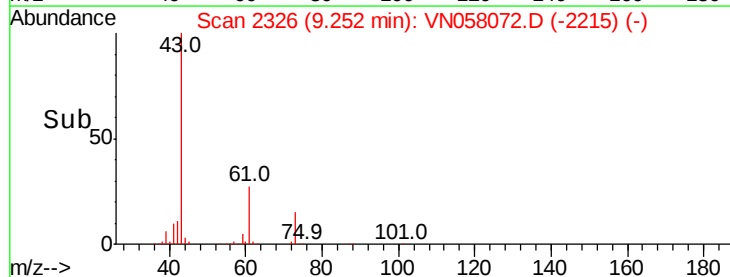
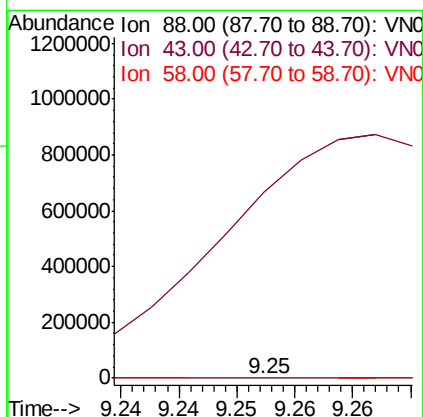
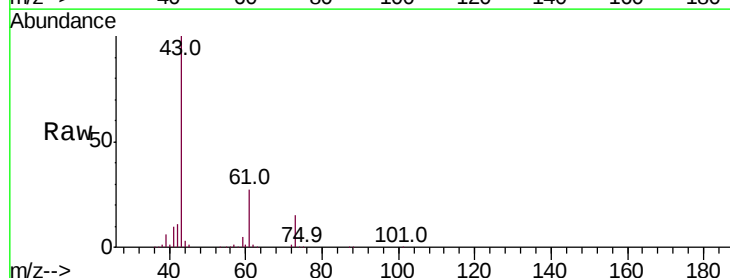
Instrument :
MSVOA_N
ClientSampled :

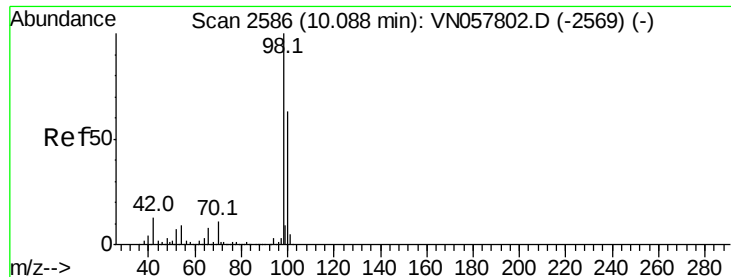
Tot Ion: 41 Resp: 6979
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 0.780 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.06 min
Lab File: VN058072.D
Acq: 14 Sep 2019 12:56

Tgt Ion: 88 Resp: 75
Ion Ratio Lower Upper
88 100
43 0.0 28.5 42.7#
58 0.0 55.8 83.6#





#50

Toluene-d8

Concen: 51.445 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

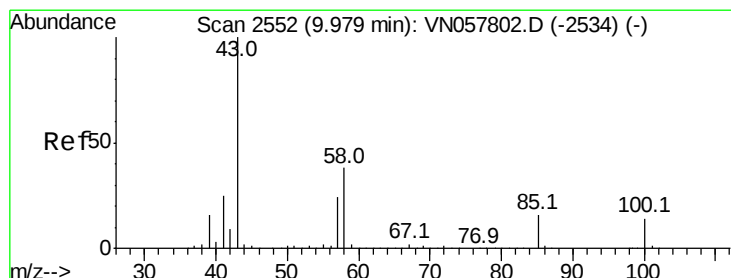
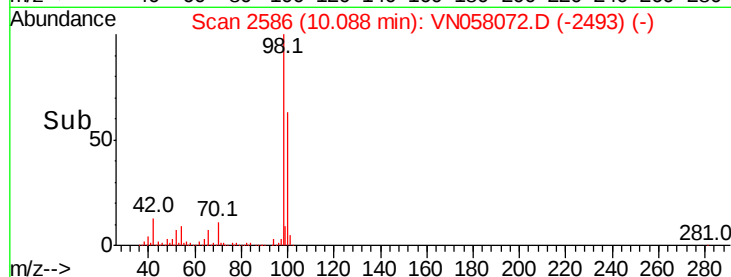
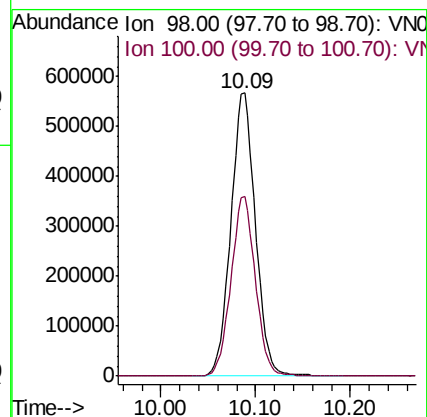
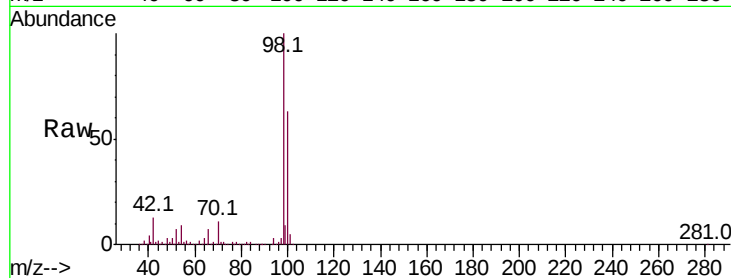
ClientSampled :

Tot Ion: 98 Resp: 1025444

Ion Ratio Lower Upper

98 100

100 63.2 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.131 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058072.D

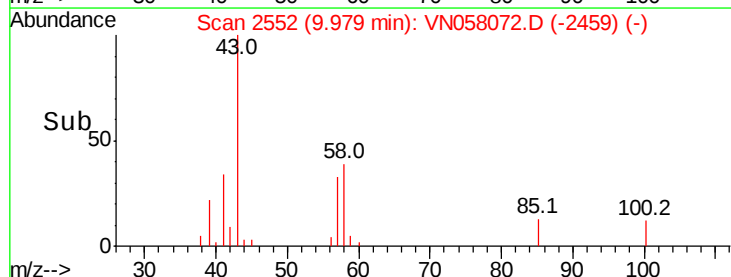
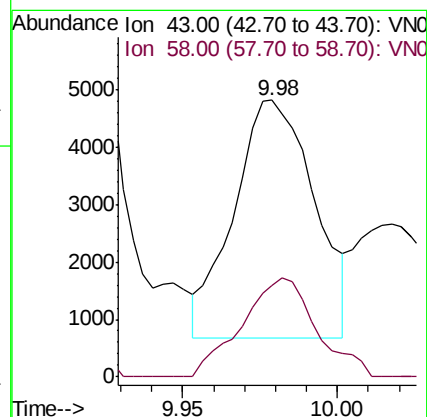
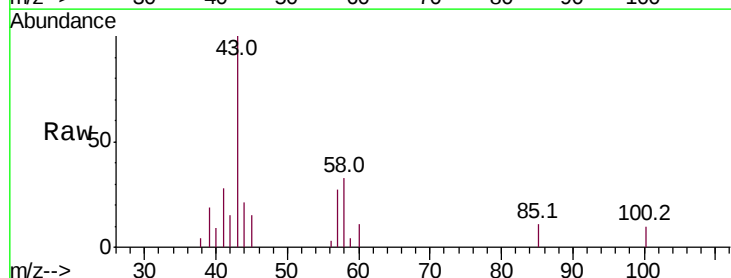
Acq: 14 Sep 2019 12:56

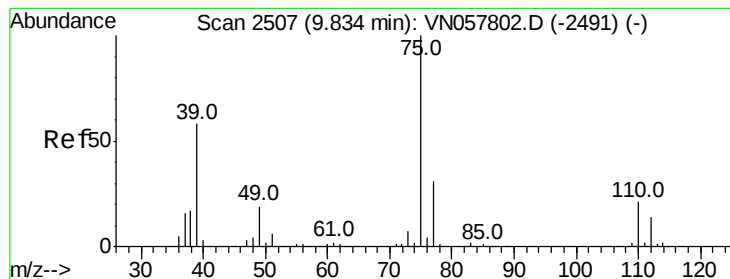
Tgt Ion: 43 Resp: 7502

Ion Ratio Lower Upper

43 100

58 38.3 29.8 44.6



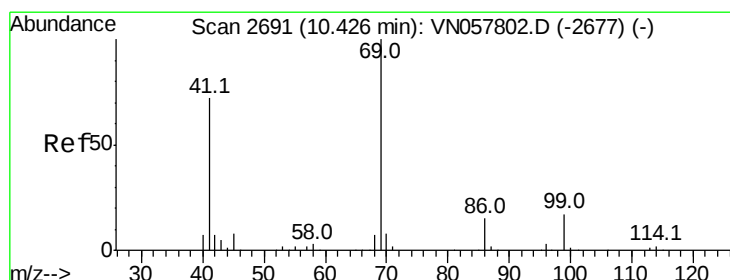
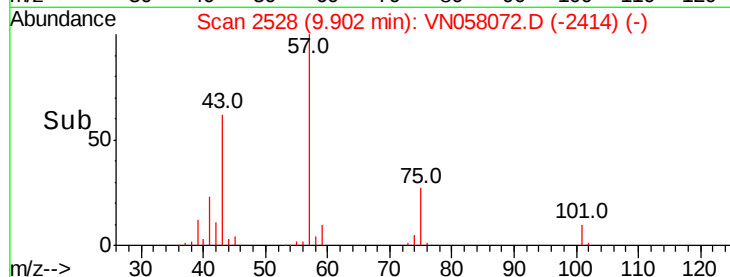
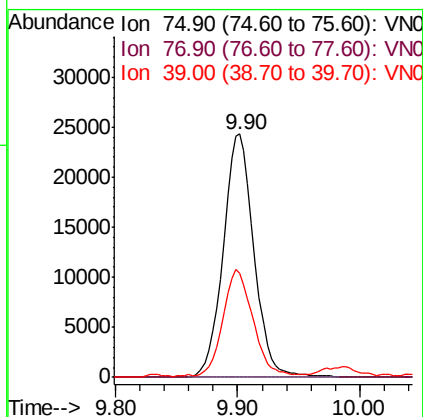
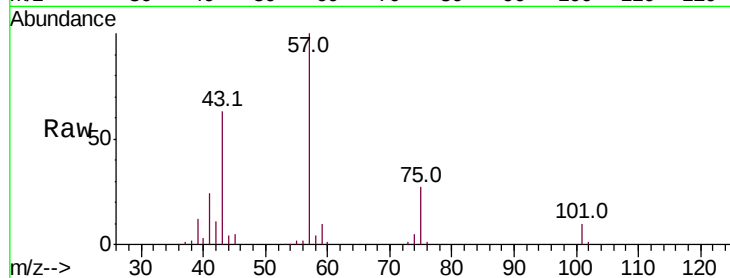


#54

cis-1,3-Dichloropropene
 Concen: 5.406 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058072.D
 Acq: 14 Sep 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :

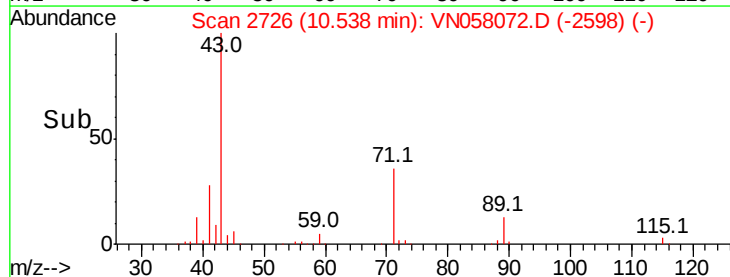
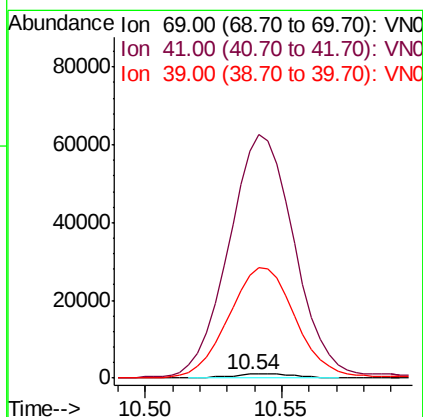
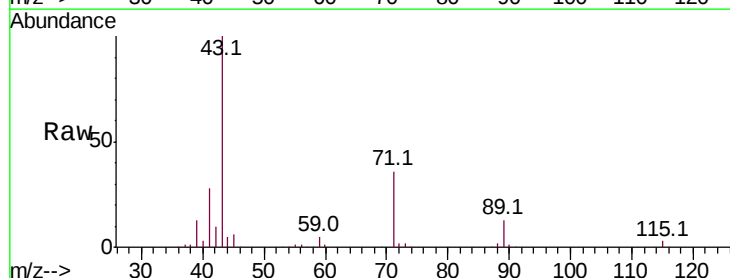
Tot Ion: 75 Resp: 42861
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 41.8 46.2 69.4#

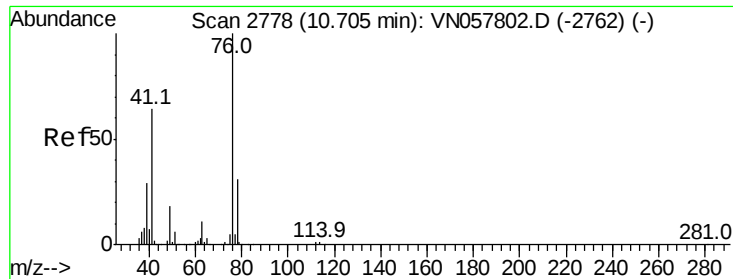


#56

Ethyl methacrylate
 Concen: 0.217 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN058072.D
 Acq: 14 Sep 2019 12:56

Tgt Ion: 69 Resp: 1690
 Ion Ratio Lower Upper
 69 100
 41 6274.4 56.7 85.1#
 39 2902.6 36.3 54.5#





#57

1,3-Dichloropropane

Concen: 0.773 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

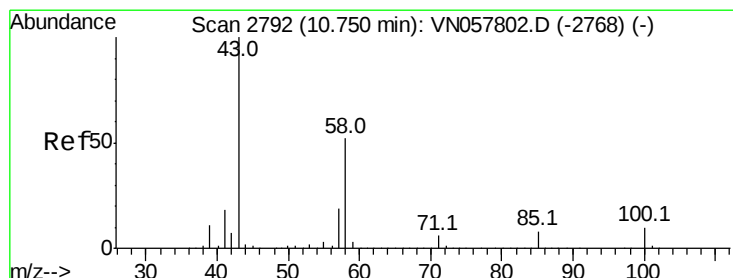
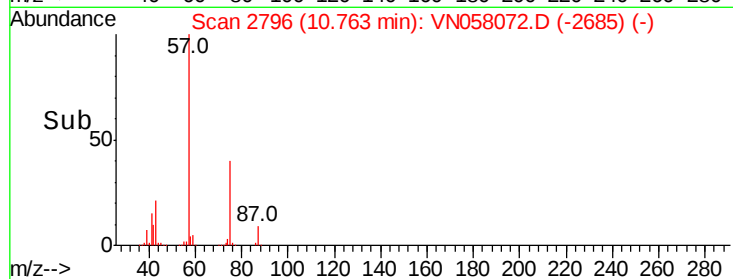
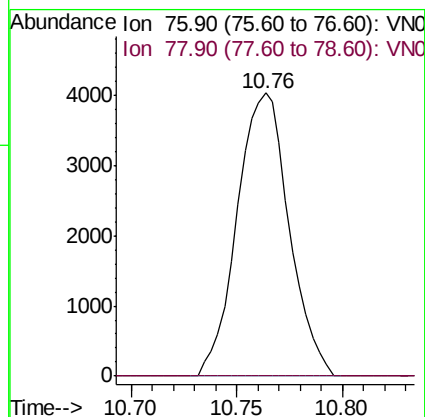
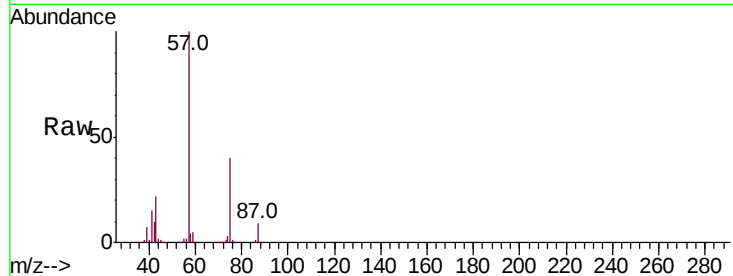
ClientSampled :

Tot Ion: 76 Resp: 6902

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 20.550 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058072.D

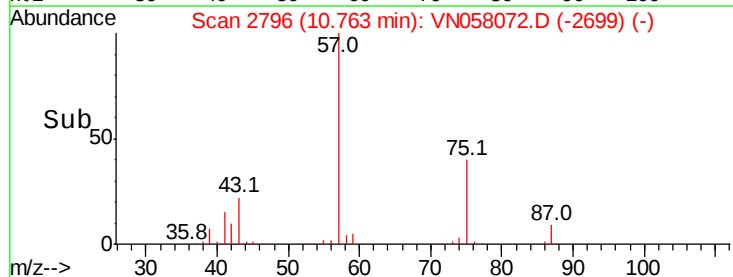
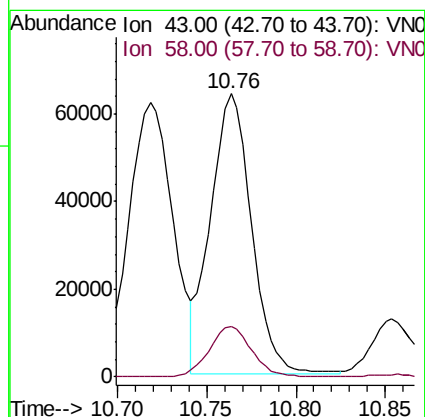
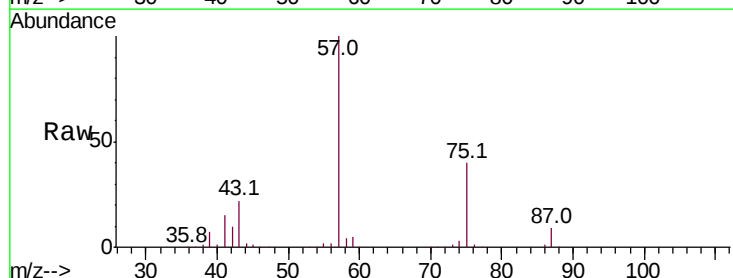
Acq: 14 Sep 2019 12:56

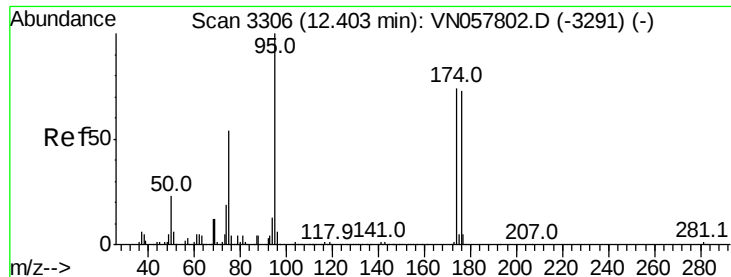
Tgt Ion: 43 Resp: 102168

Ion Ratio Lower Upper

43 100

58 18.6 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 44.356 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

ClientSampled :

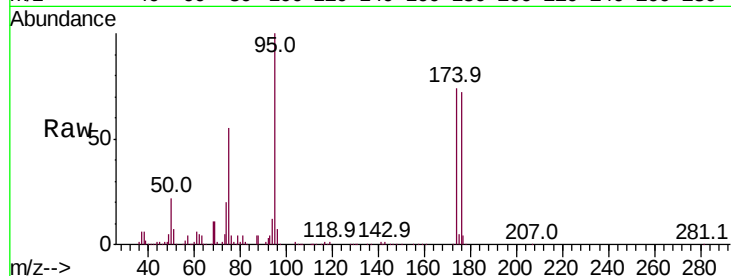
Tot Ion: 95 Resp: 336933

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

176 73.2 0.0 146.0

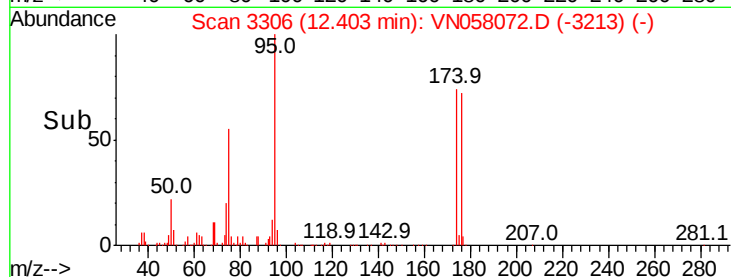


Abundance Ion 94.90 (94.60 to 95.60): VN058072.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058072.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058072.D (-3291) (-)

Time-->

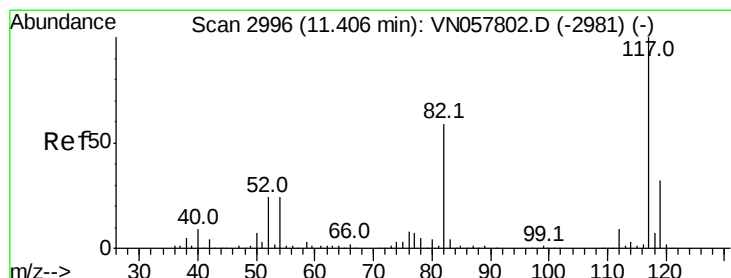


Abundance Ion 94.90 (94.60 to 95.60): VN058072.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN058072.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN058072.D (-3213) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

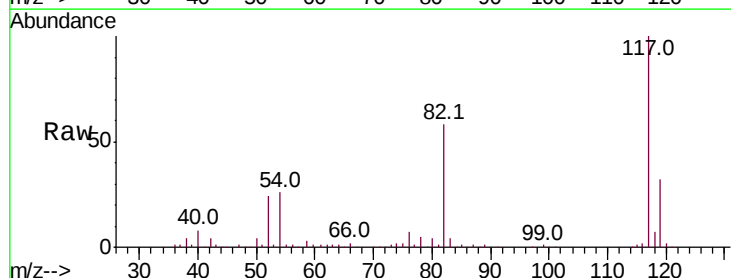
Tgt Ion: 117 Resp: 515415

Ion Ratio Lower Upper

117 100

82 58.1 47.2 70.8

119 31.5 25.3 37.9

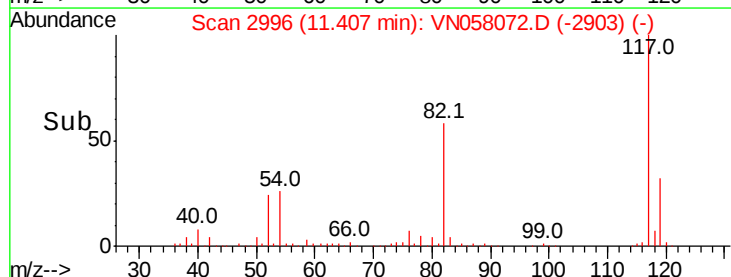


Abundance Ion 116.90 (116.60 to 117.60): VN058072.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN058072.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058072.D (-2981) (-)

Time-->

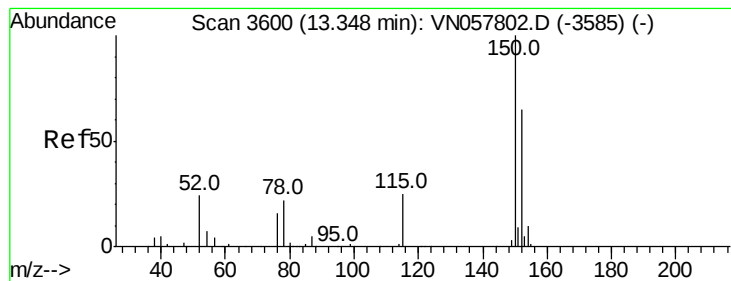


Abundance Ion 116.90 (116.60 to 117.60): VN058072.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058072.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058072.D (-2903) (-)

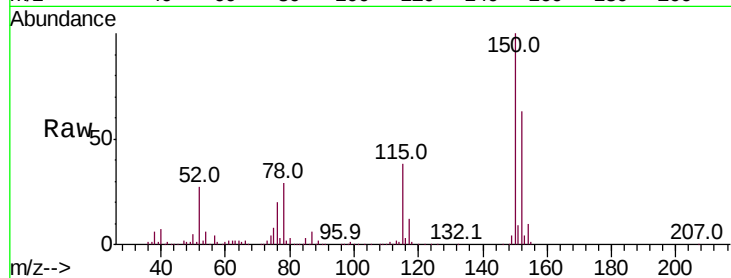
Time-->



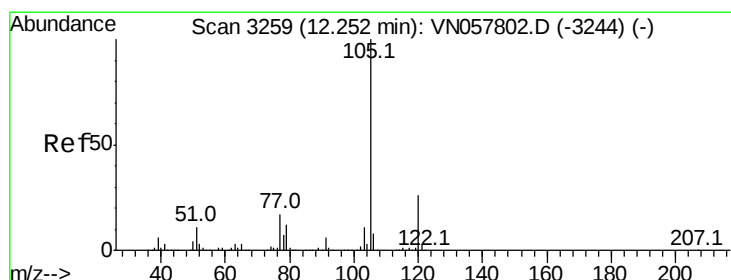
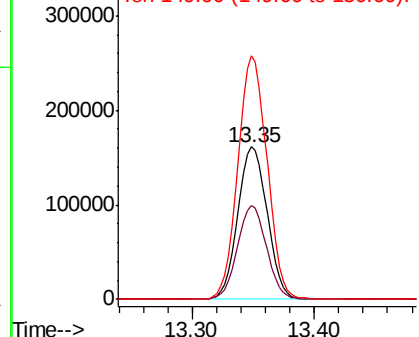
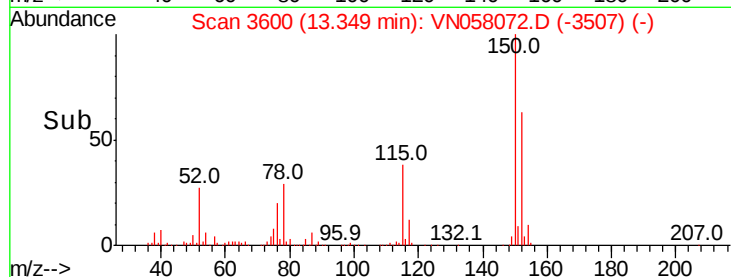
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN058072.D
 Acq: 14 Sep 2019 12:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:152 Resp: 271371
 Ion Ratio Lower Upper
 152 100
 115 60.6 30.3 91.0
 150 157.6 0.0 352.4

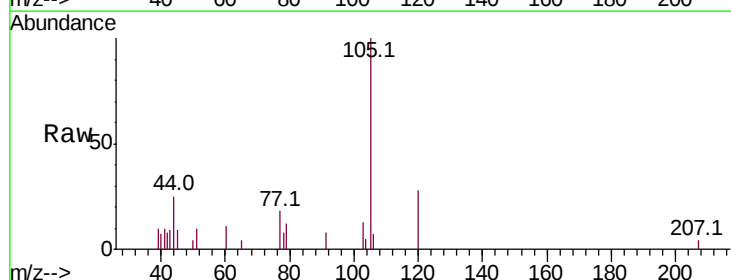


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

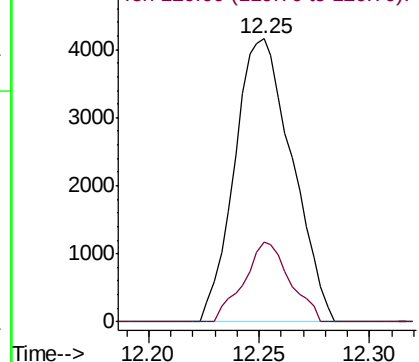
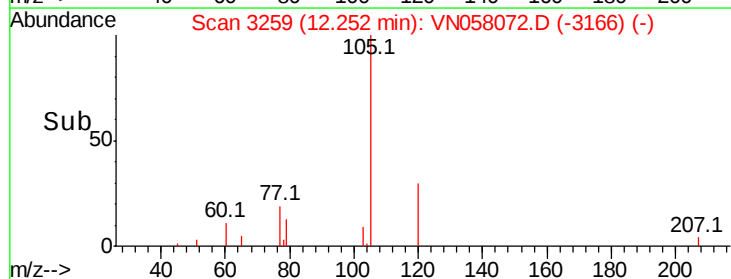


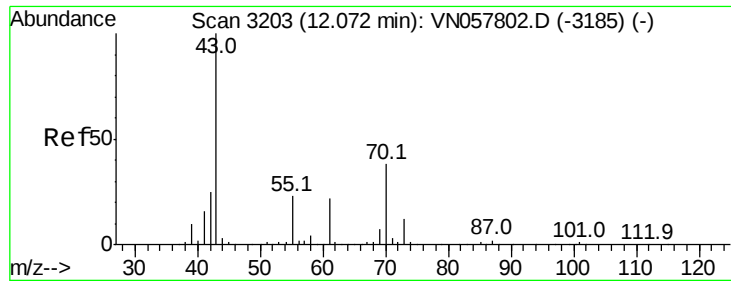
#73
 Isopropylbenzene
 Concen: 0.357 ug/l
 RT: 12.25 min Scan# 3259
 Delta R.T. 0.00 min
 Lab File: VN058072.D
 Acq: 14 Sep 2019 12:56

Tgt Ion:105 Resp: 7510
 Ion Ratio Lower Upper
 105 100
 120 22.6 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.541 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4955

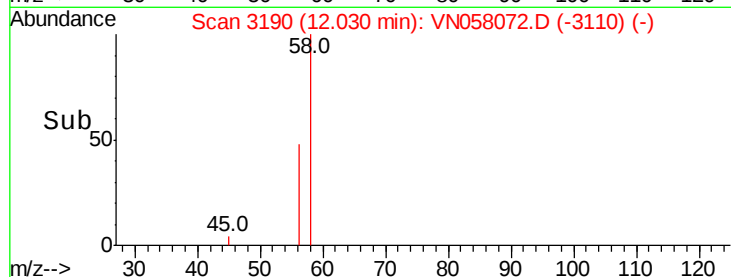
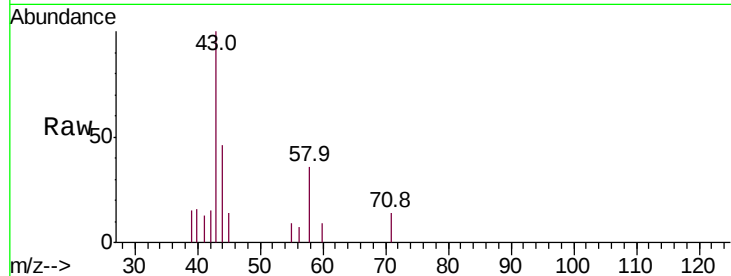
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 3.3 18.6 27.8#

61 0.0 17.4 26.2#

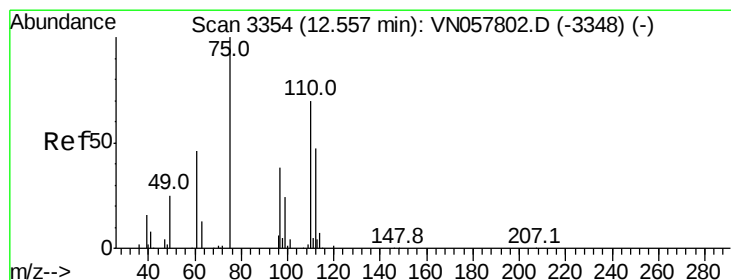
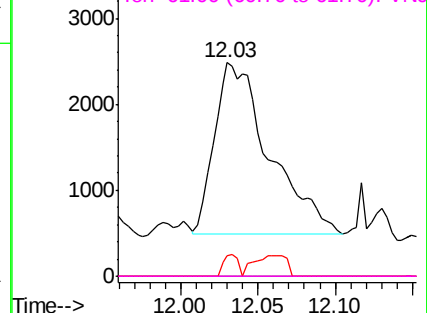


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.490 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058072.D

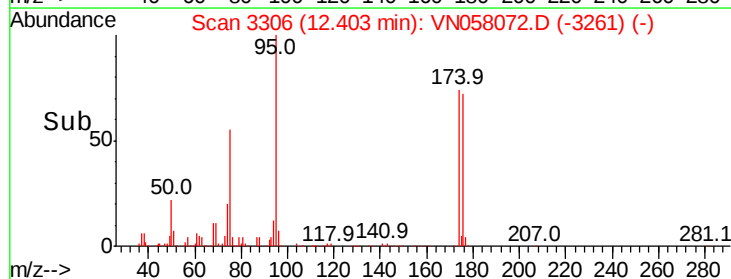
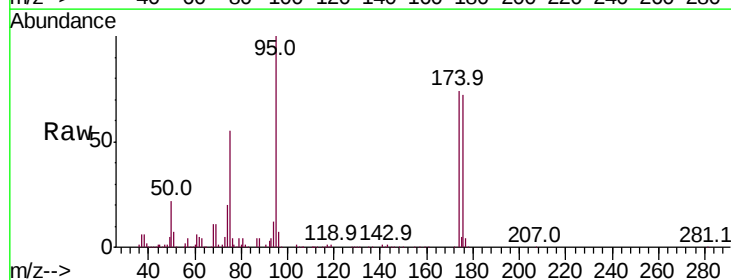
Acq: 14 Sep 2019 12:56

Tgt Ion: 75 Resp: 187172

Ion Ratio Lower Upper

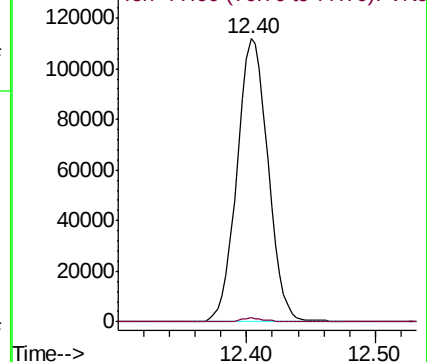
75 100

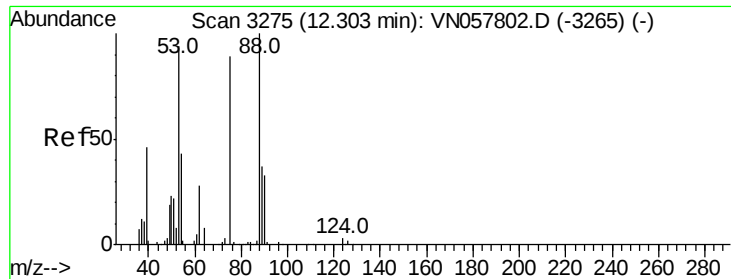
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 107.293 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058072.D

Acq: 14 Sep 2019 12:56

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 187172

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#

