

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059510.D
 Acq On : 6 Dec 2019 13:25
 Operator : JC/SP
 Sample : K6162-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:19:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	240313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	384677	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	344782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	119066	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	171594	57.48	ug/l	0.00
Spiked Amount			Recovery	=	114.96%	
35) Dibromofluoromethane	7.57	113	123648	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
50) Toluene-d8	10.08	98	486311	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	12.40	95	148133	44.90	ug/l	0.00
Spiked Amount			Recovery	=	89.80%	

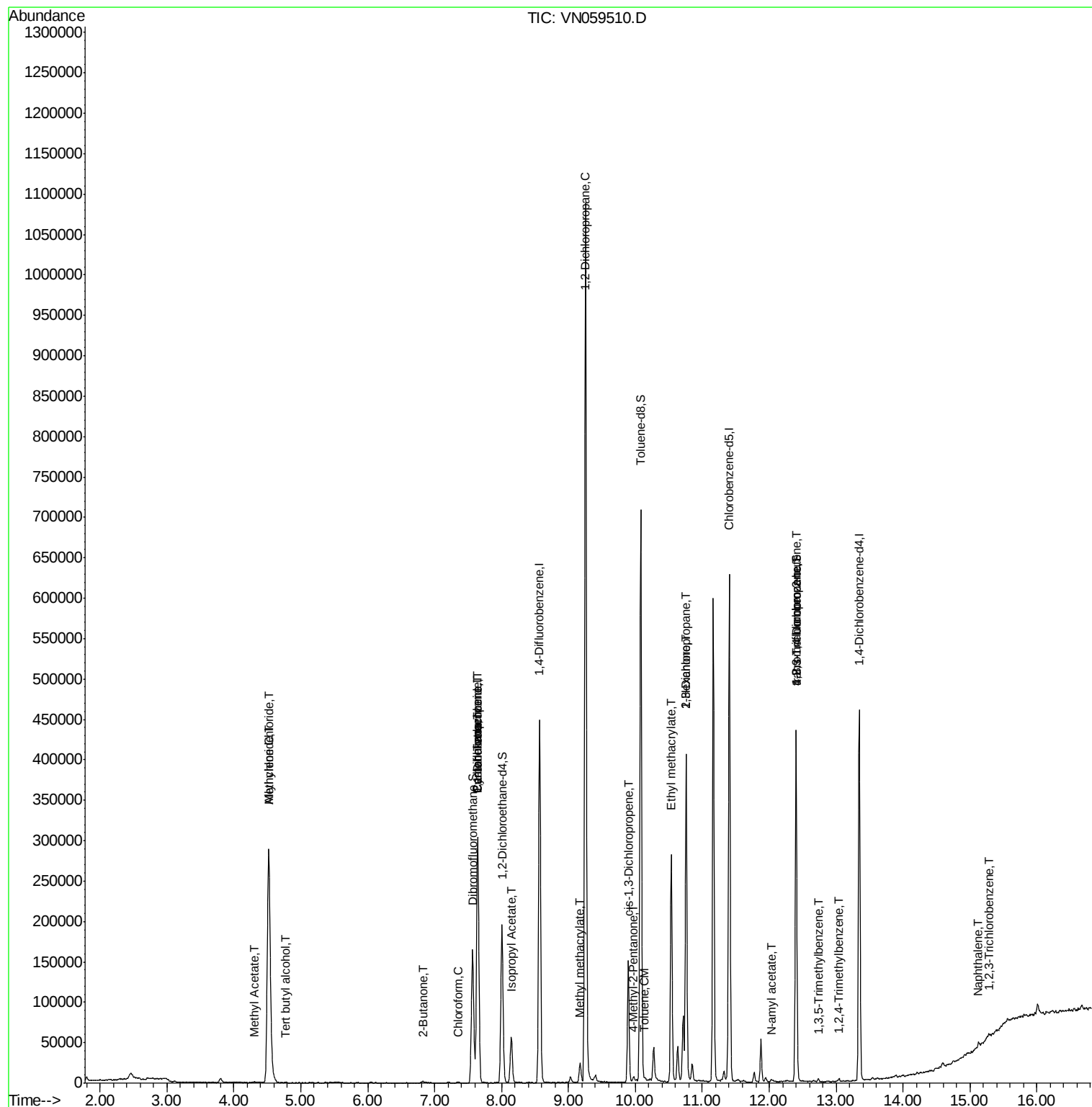
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	204	0.363	ug/l #	73
14) Allyl chloride	4.52	41	8759	1.784	ug/l #	28
16) Acetone	3.81	43	8632	Below Cal		96
18) Methyl Acetate	4.30	43	2538	0.632	ug/l #	55
20) Methylene Chloride	4.52	84	221799	79.589	ug/l	95
25) 2-Butanone	6.82	43	3986	1.757	ug/l	99
30) Chloroform	7.35	83	1319	0.263	ug/l	97
31) Cyclohexane	7.64	56	5622	1.118	ug/l #	9
36) 1,1-Dichloropropene	7.64	75	20239	5.056	ug/l #	49
38) Carbon Tetrachloride	7.65	117	23881	6.203	ug/l #	16
43) Isopropyl Acetate	8.15	43	65795	9.893	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	1298	0.414	ug/l #	44
48) Methyl methacrylate	9.17	41	3847	1.282	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4521	1.145	ug/l	89
52) Toluene	10.15	92	2144	0.302	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	25551	5.240	ug/l #	75
56) Ethyl methacrylate	10.54	69	1148	1.698	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4004	0.828	ug/l #	42
59) 2-Hexanone	10.76	43	64823	21.819	ug/l #	51
74) N-amyl acetate	12.03	43	3272	0.851	ug/l #	42
76) 1,2,3-Trichloropropane	12.40	75	79589	26.884	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2132	0.267	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.40	75	79589	70.553	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	2498	0.320	ug/l	88
95) Naphthalene	15.13	128	5090	3.141	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.29	180	760	2.261	ug/l #	67

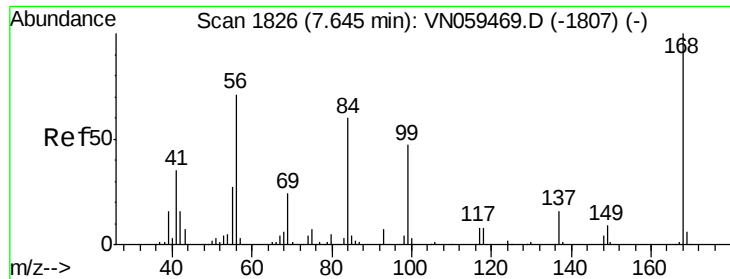
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120619\
Data File : VN059510.D
Acq On : 6 Dec 2019 13:25
Operator : JC/SP
Sample : K6162-03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 06 22:19:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

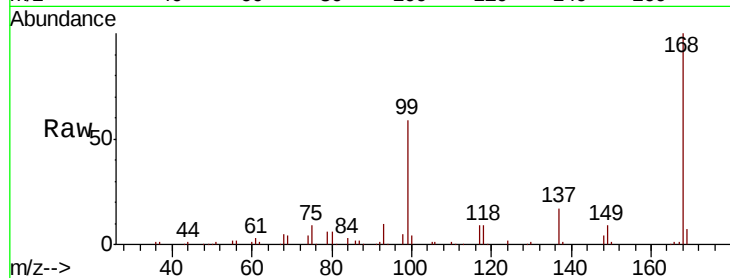
ClientSampleId :

Tot Ion:168 Resp: 240313

Ion Ratio Lower Upper

168 100

99 58.9 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

60000

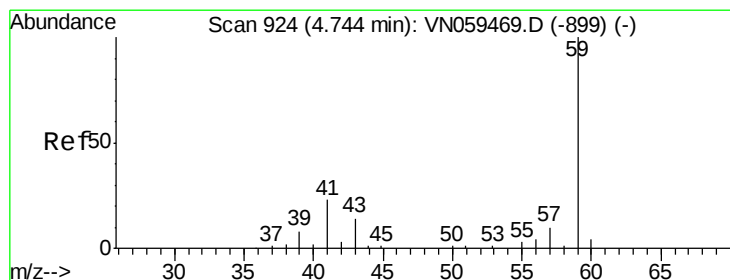
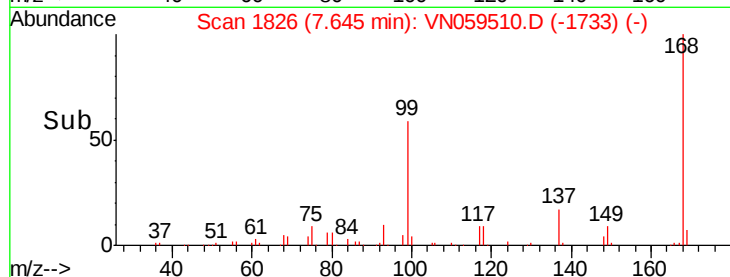
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.363 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.01 min

Lab File: VN059510.D

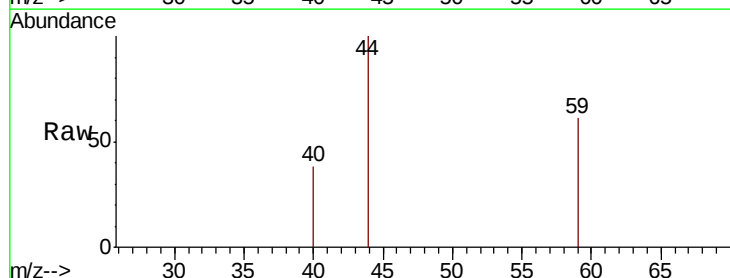
Acq: 6 Dec 2019 13:25

Tgt Ion: 59 Resp: 204

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.76

300

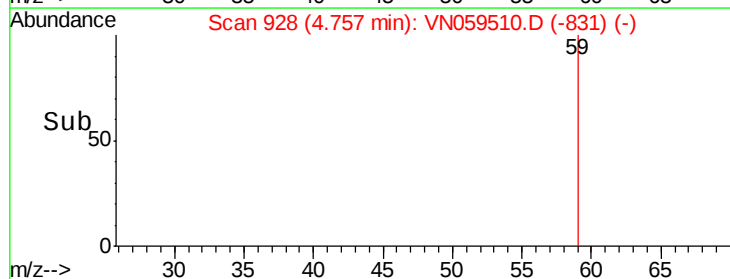
200

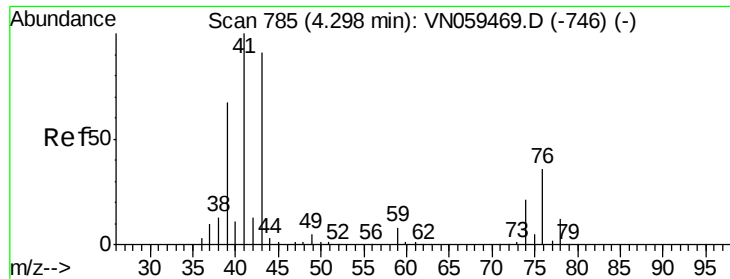
100

0

4.74 4.75 4.76 4.77

Time-->





#14

Allvl chloride

Concen: 1.784 ug/l

RT: 4.52 min Scan# 853

Delta R.T. 0.22 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

ClientSampled :

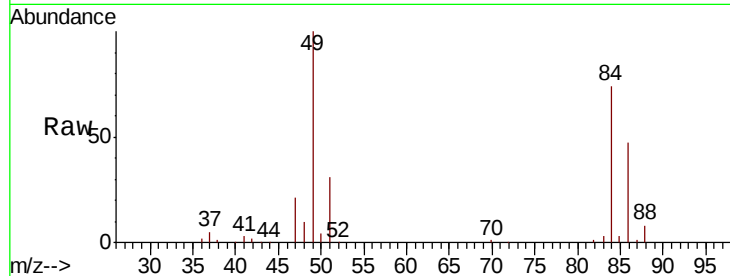
Tot Ion: 41 Resp: 8759

Ion Ratio Lower Upper

41 100

39 0.0 49.3 73.9#

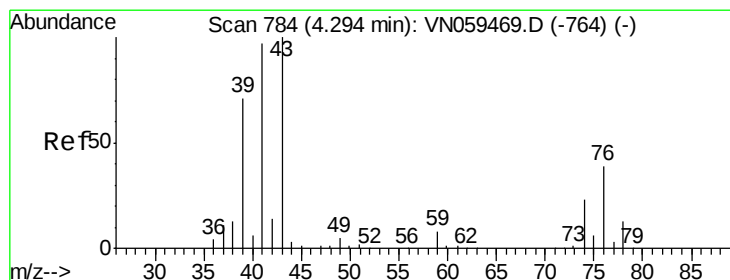
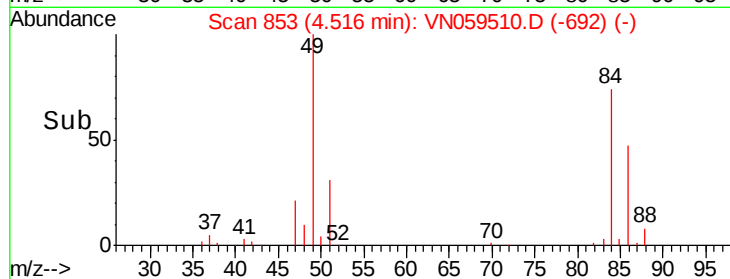
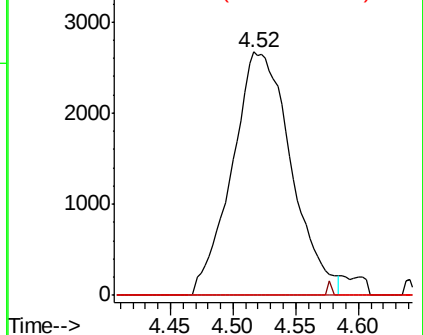
76 0.0 25.6 38.4#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



#18

Methyl Acetate

Concen: 0.632 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN059510.D

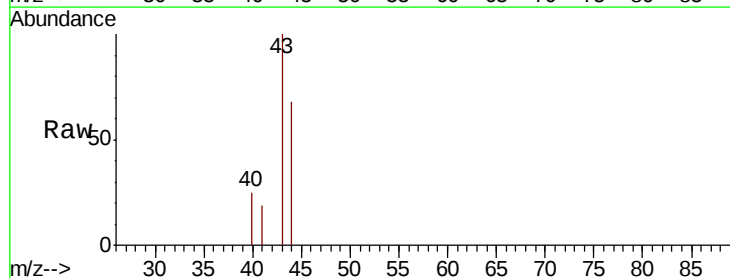
Acq: 6 Dec 2019 13:25

Tgt Ion: 43 Resp: 2538

Ion Ratio Lower Upper

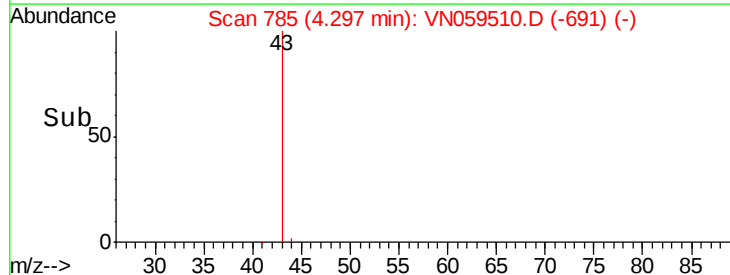
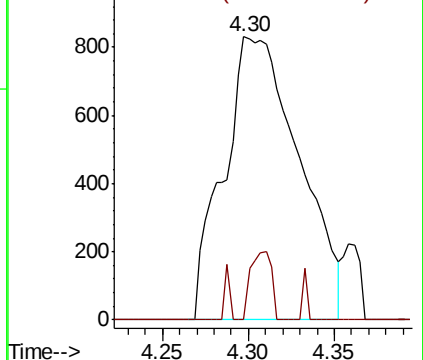
43 100

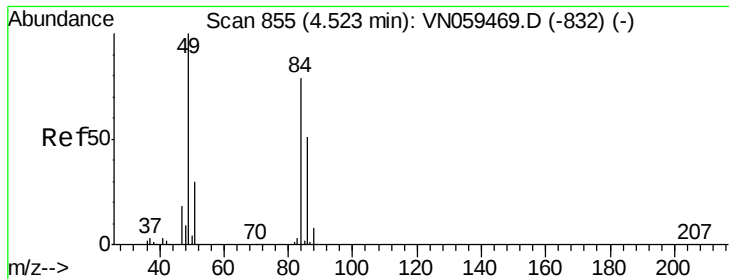
74 1.3 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

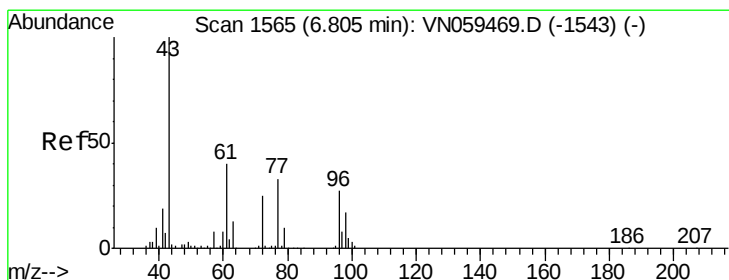
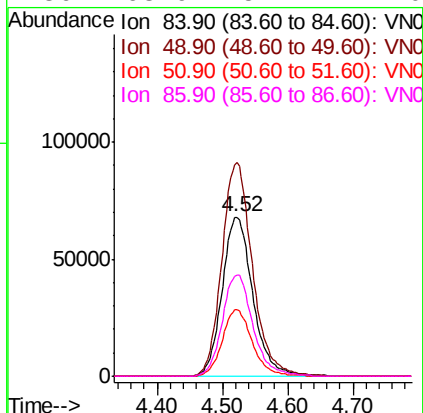
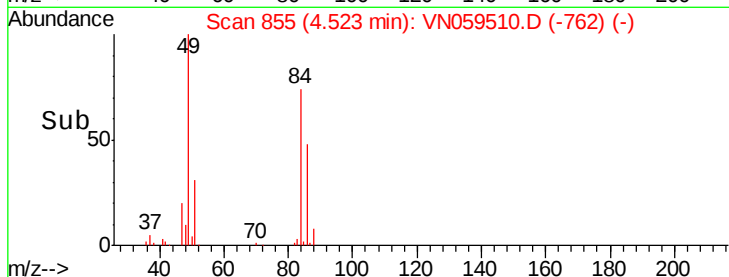
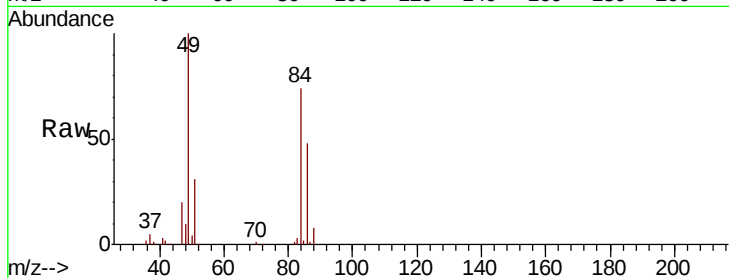




#20
Methvlene Chloride
Concen: 79.589 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059510.D
Acq: 6 Dec 2019 13:25

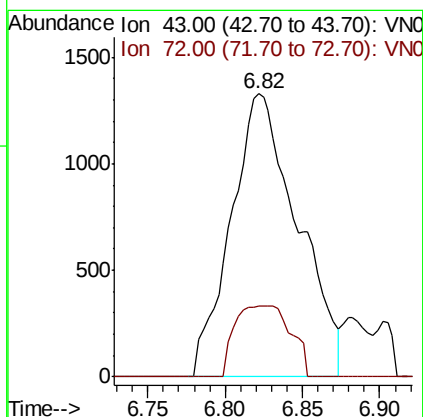
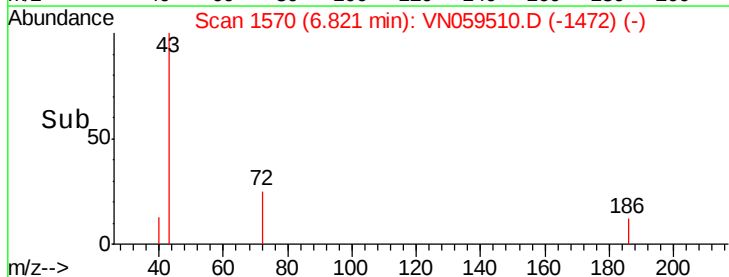
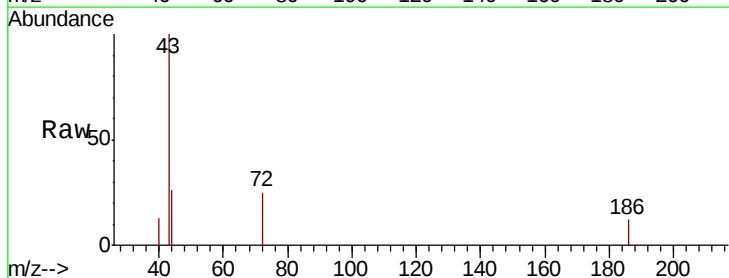
Instrument :
MSVOA_N
ClientSampled :

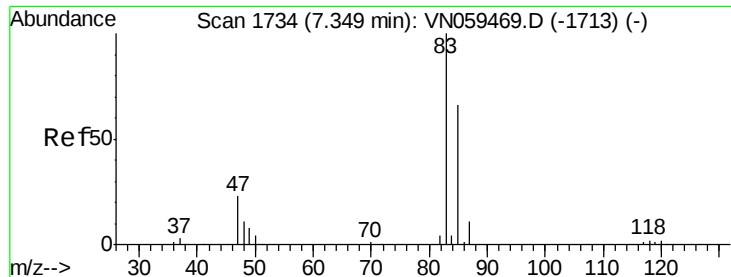
Tot Ion: 84 Resp: 221799
Ion Ratio Lower Upper
84 100
49 134.3 101.1 151.7
51 41.8 30.7 46.1
86 63.9 51.4 77.0



#25
2-Butanone
Concen: 1.757 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN059510.D
Acq: 6 Dec 2019 13:25

Tgt Ion: 43 Resp: 3986
Ion Ratio Lower Upper
43 100
72 24.8 20.2 30.2

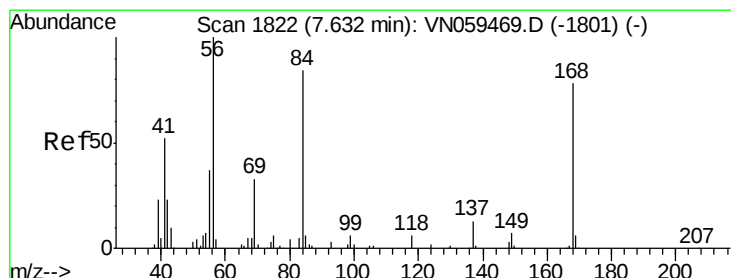
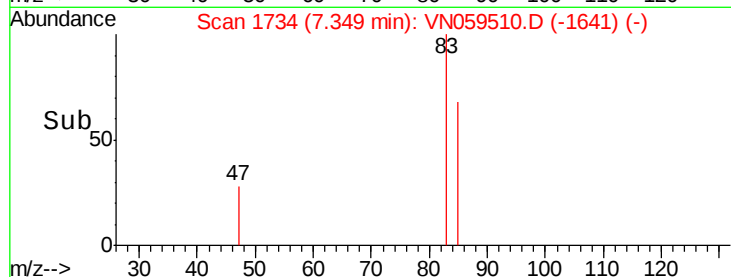
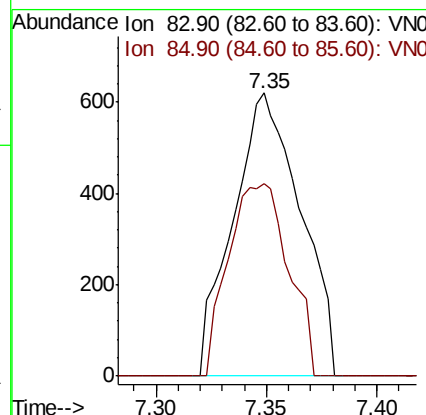
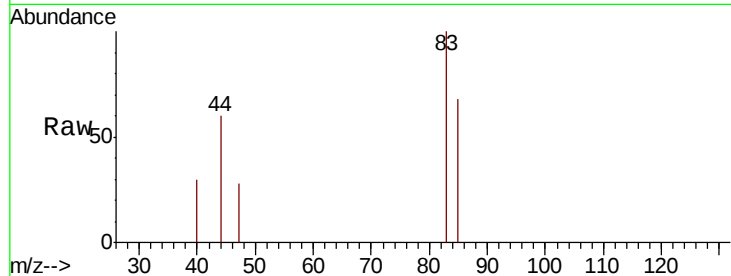




#30
Chloroform
Concen: 0.263 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059510.D
Acq: 6 Dec 2019 13:25

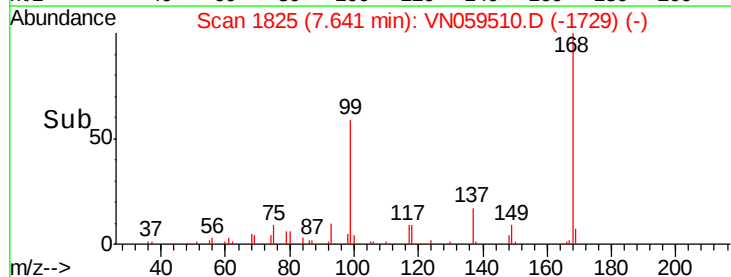
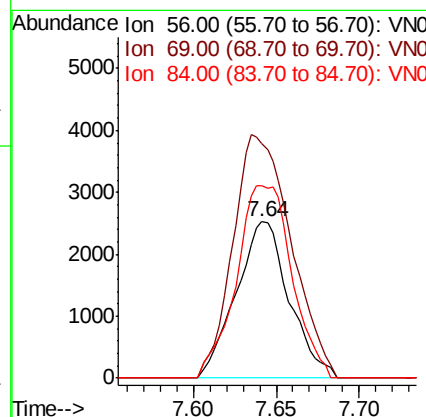
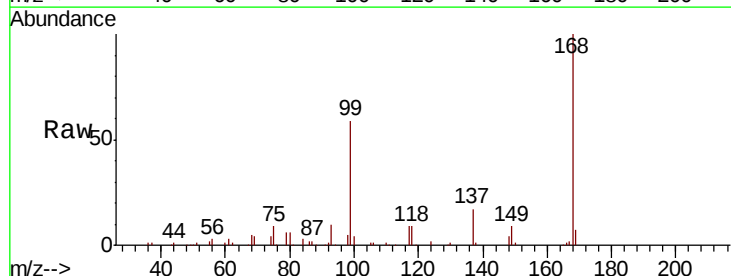
Instrument :
MSVOA_N
ClientSampleId :

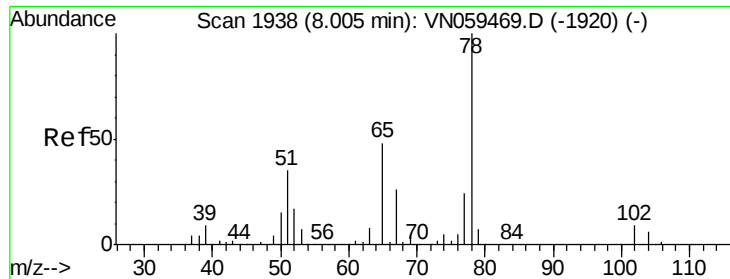
Tot Ion: 83 Resp: 1319
Ion Ratio Lower Upper
83 100
85 68.1 52.4 78.6



#31
Cyclohexane
Concen: 1.118 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059510.D
Acq: 6 Dec 2019 13:25

Tgt Ion: 56 Resp: 5622
Ion Ratio Lower Upper
56 100
69 150.7 26.2 39.4#
84 123.6 66.8 100.2#

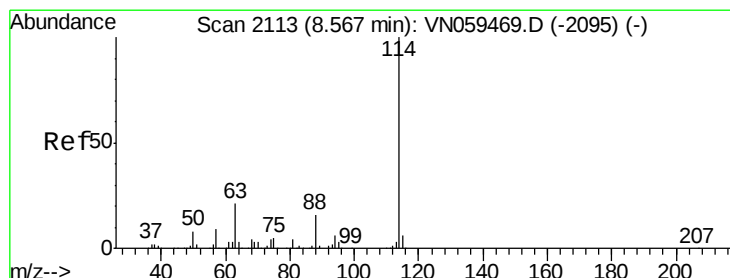
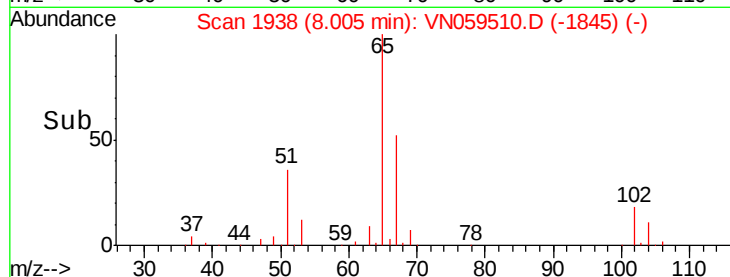
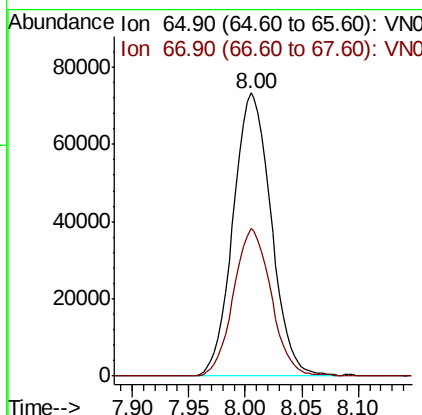
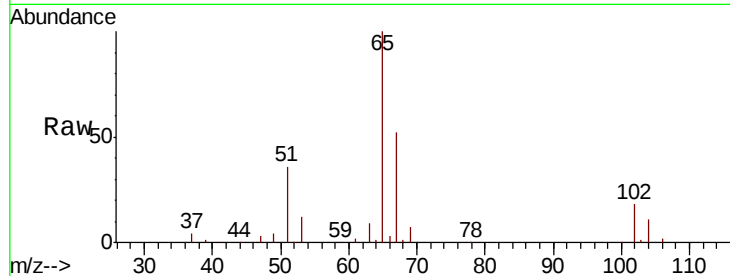




#33
 1,2-Dichloroethane-d4
 Concen: 57.479 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

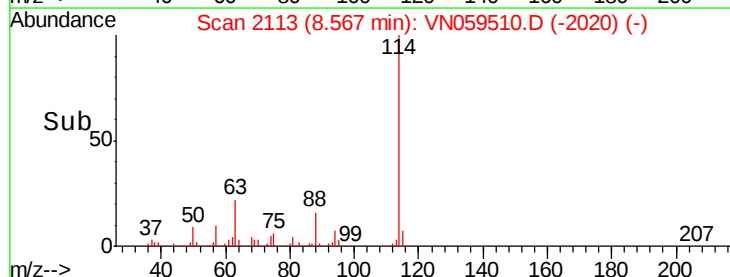
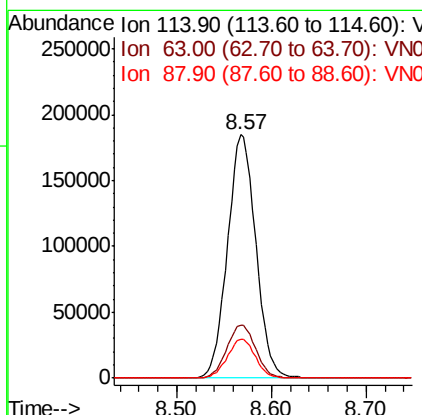
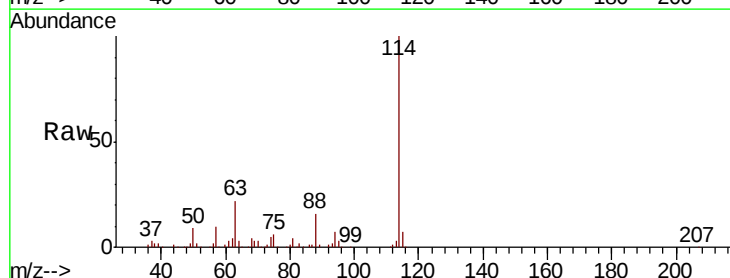
Instrument :
 MSVOA_N
 ClientSampled :

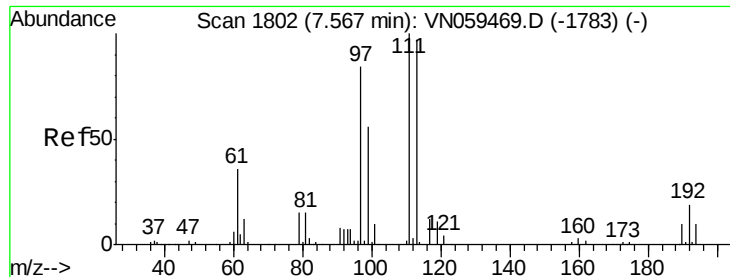
Tot Ion: 65 Resp: 171594
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

Tgt Ion: 114 Resp: 384677
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 42.4
 88 16.2 0.0 32.8

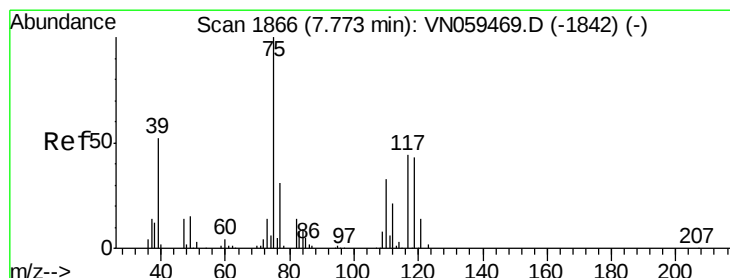
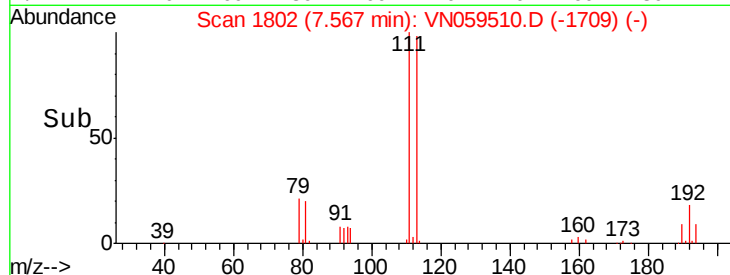
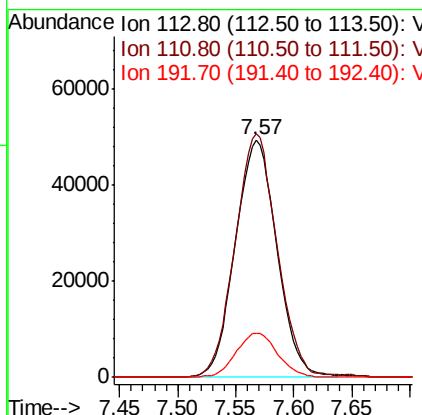
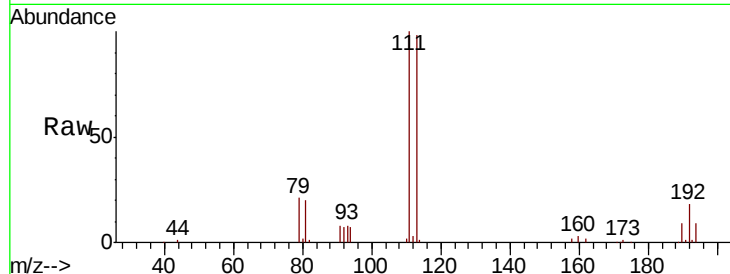




#35
 Dibromofluoromethane
 Concen: 51.609 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

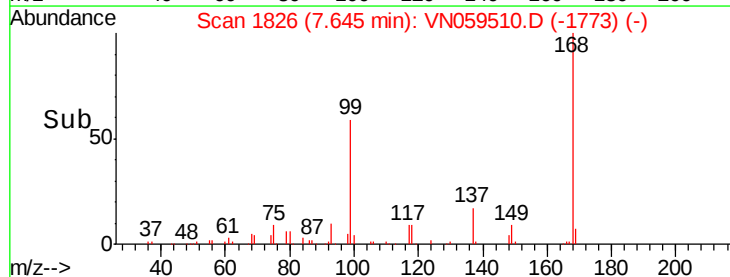
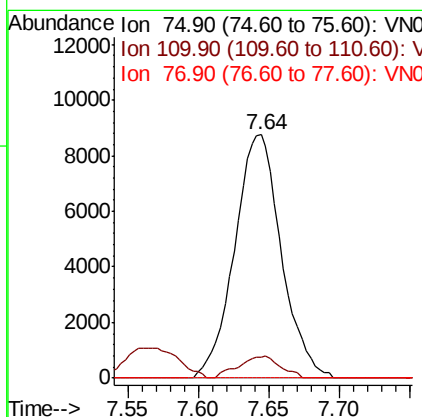
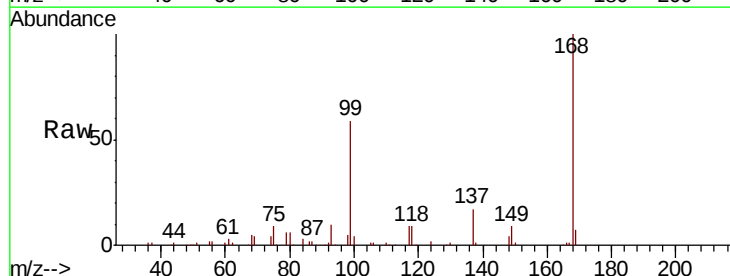
Instrument :
 MSVOA_N
 ClientSampleId :

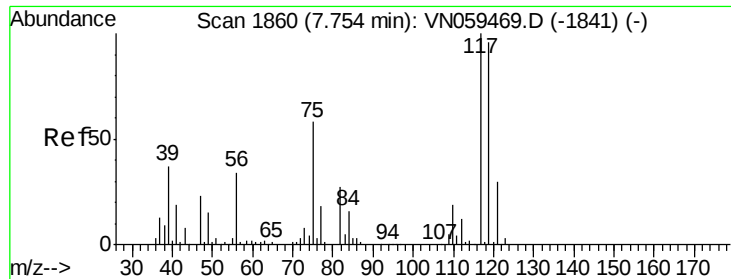
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.5	123.7
192	18.6	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 5.056 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.9	50.7#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.203 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

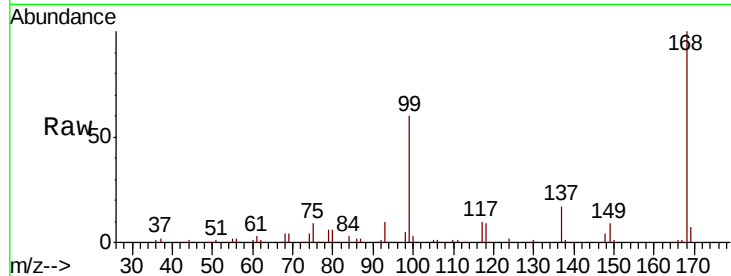
Tot Ion:117 Resp: 23881

Ion Ratio Lower Upper

117 100

119 4.7 76.6 114.8#

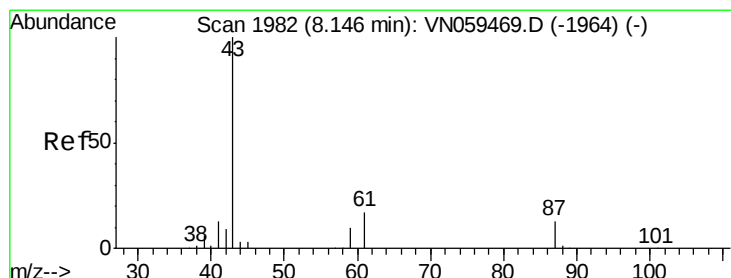
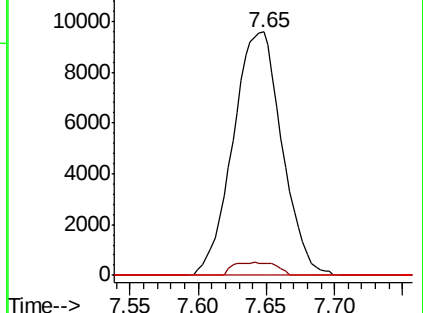
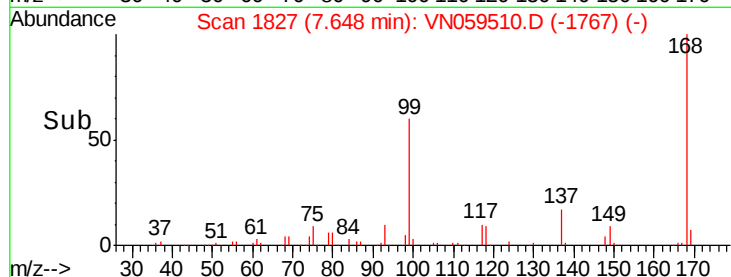
121 0.0 24.0 36.0#



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: 9.893 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

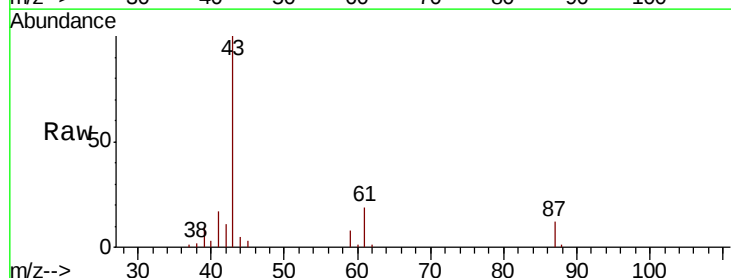
Tgt Ion: 43 Resp: 65795

Ion Ratio Lower Upper

43 100

61 18.5 21.0 31.6#

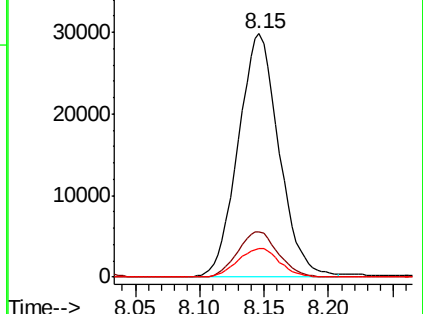
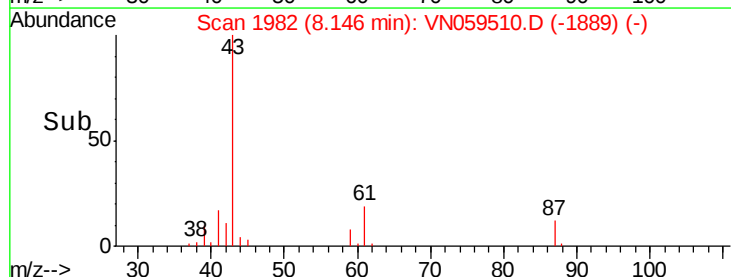
87 11.9 10.4 15.6

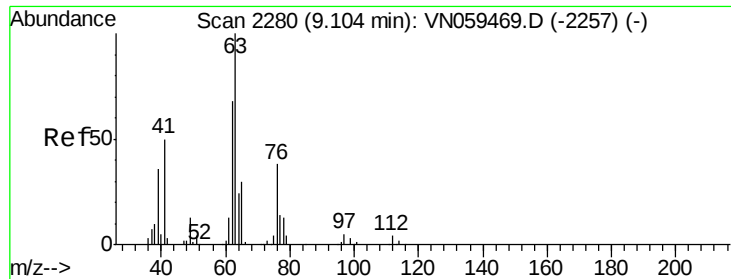


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

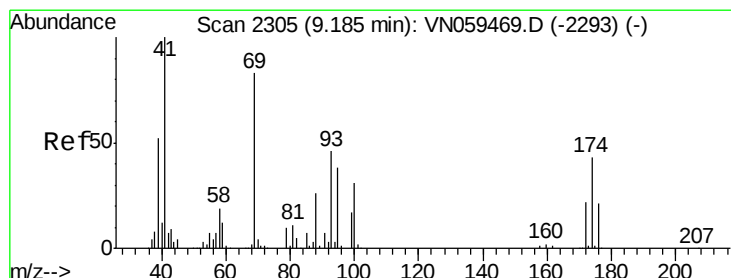
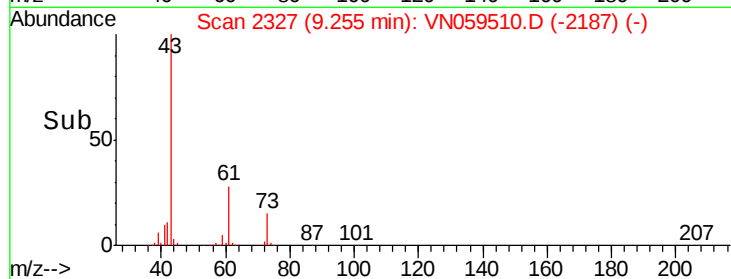
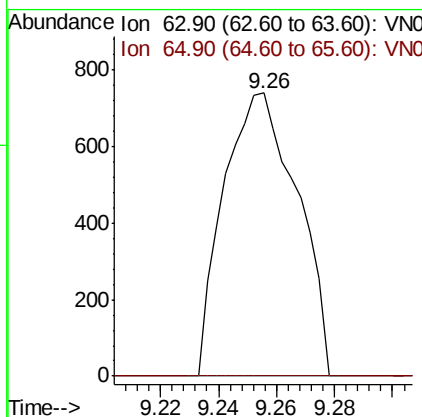
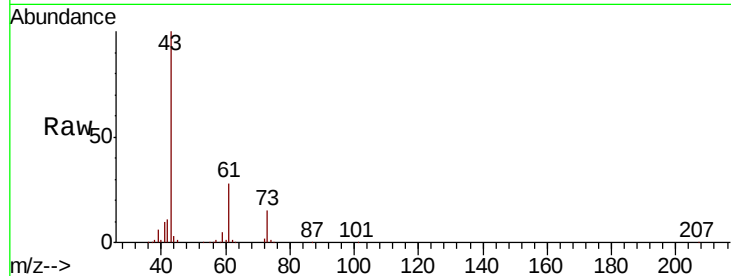




#45
 1,2-Dichloropropane
 Concen: 0.414 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.15 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

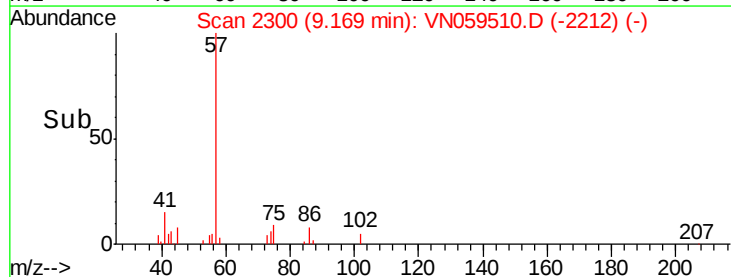
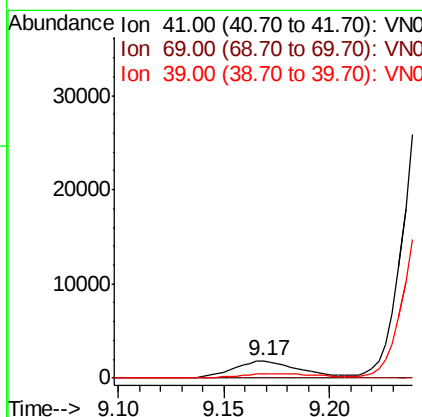
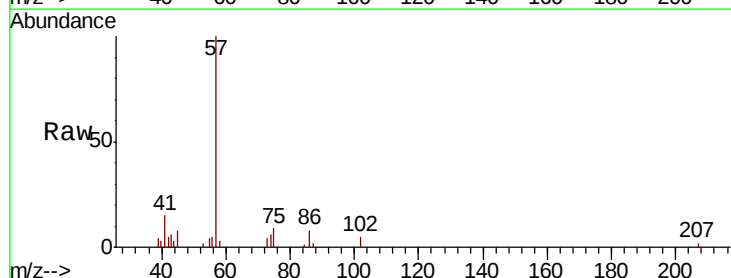
Instrument :
 MSVOA_N
 ClientSampleId :

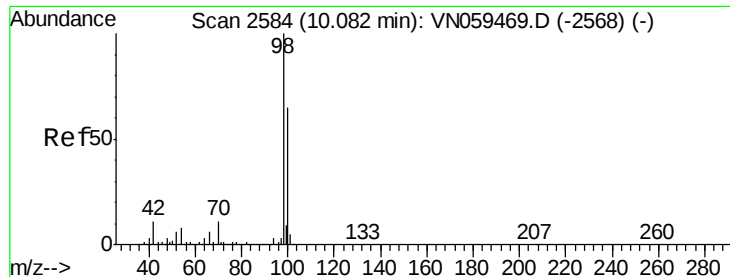
Tot Ion: 63 Resp: 1298
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.282 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.02 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

Tgt Ion: 41 Resp: 3847
 Ion Ratio Lower Upper
 41 100
 69 0.0 68.6 103.0#
 39 0.0 43.2 64.8#





#50

Toluene-d8

Concen: 51.481 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

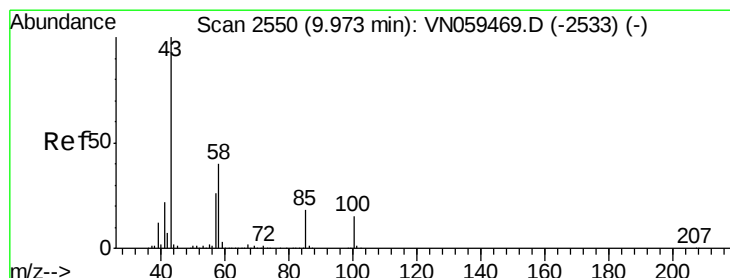
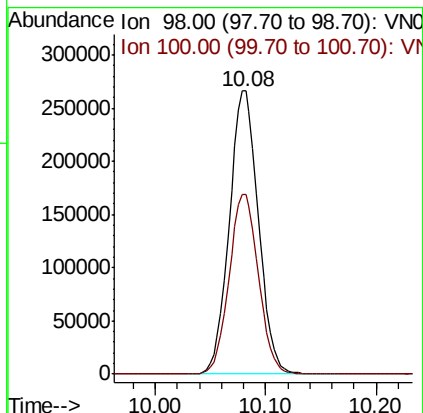
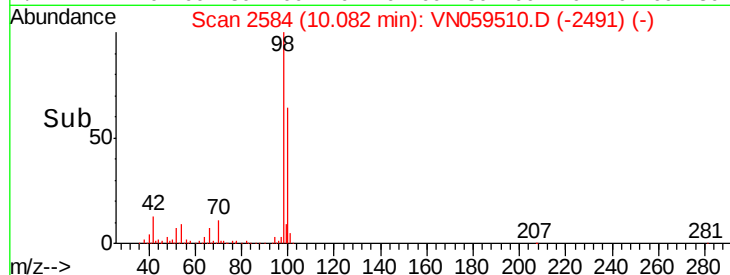
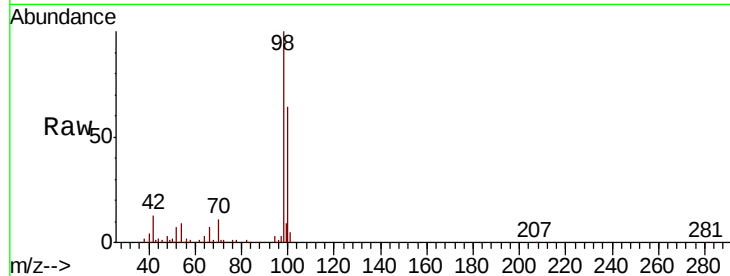
ClientSampled :

Tot Ion: 98 Resp: 486311

Ion Ratio Lower Upper

98 100

100 64.1 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 1.145 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059510.D

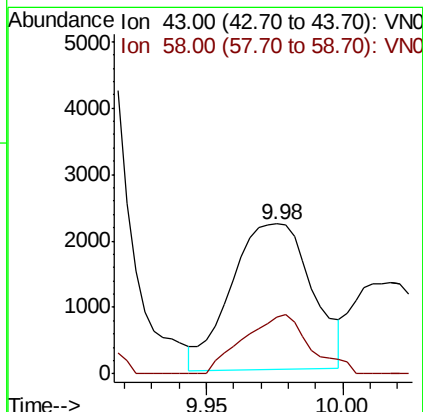
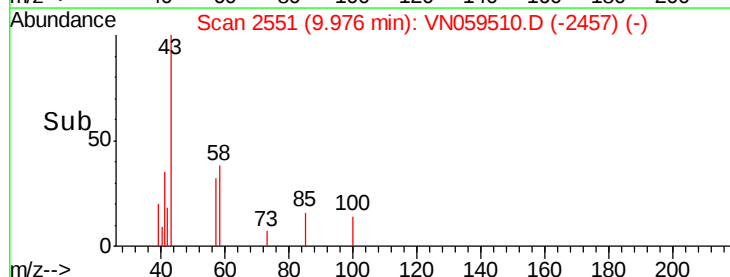
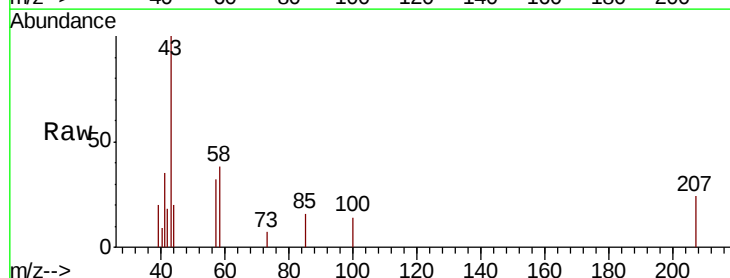
Acq: 6 Dec 2019 13:25

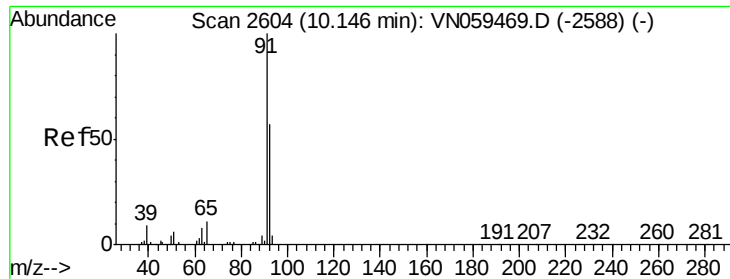
Tgt Ion: 43 Resp: 4521

Ion Ratio Lower Upper

43 100

58 33.4 32.1 48.1





#52

Toluene

Concen: 0.302 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

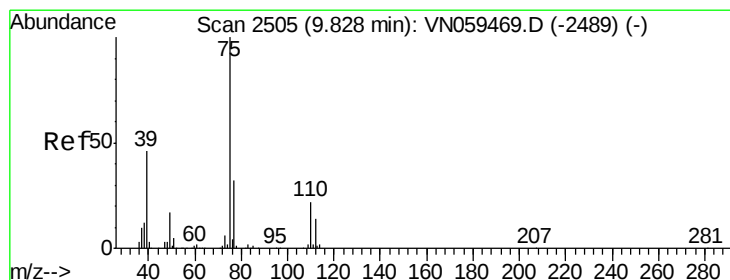
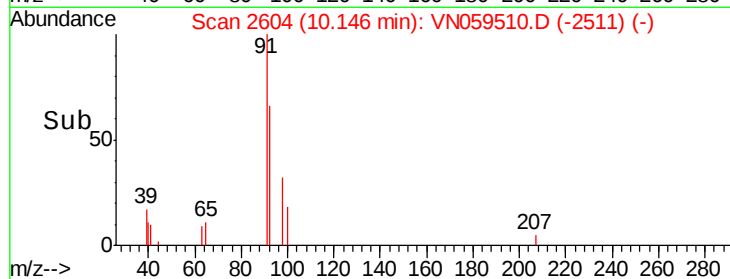
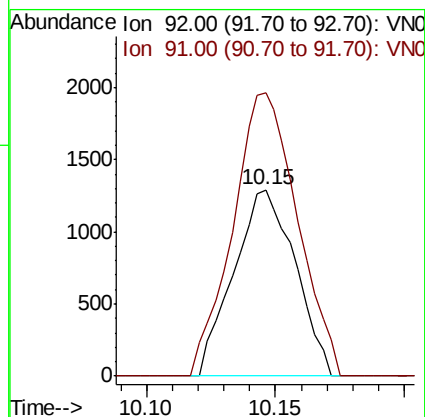
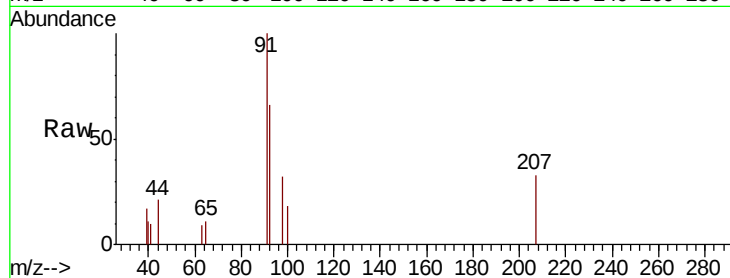
ClientSampled :

Tot Ion: 92 Resp: 2144

Ion Ratio Lower Upper

92 100

91 159.8 138.6 208.0



#54

cis-1,3-Dichloropropene

Concen: 5.240 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.07 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

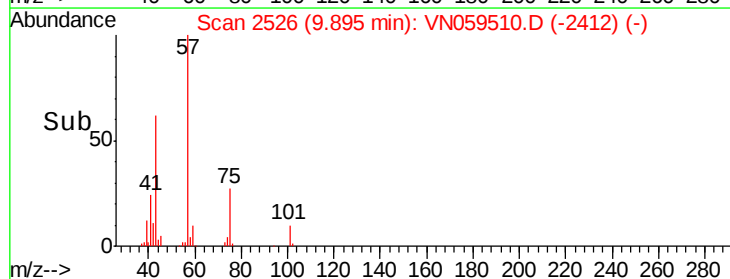
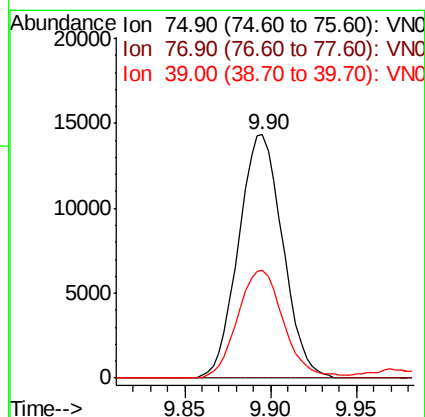
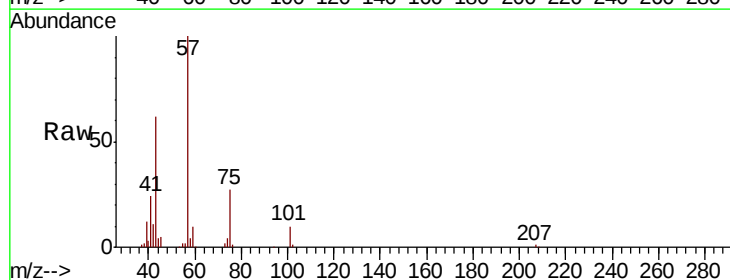
Tgt Ion: 75 Resp: 25551

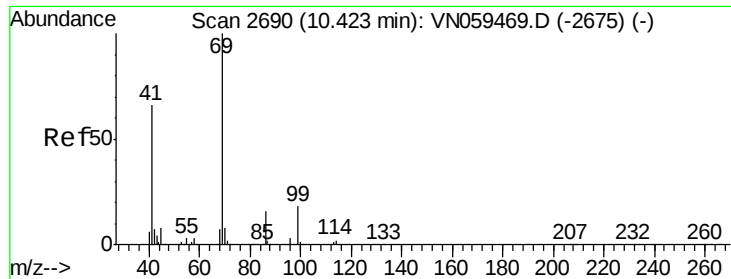
Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

39 44.3 36.6 54.8





#56

Ethyl methacrylate

Concen: 1.698 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.11 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

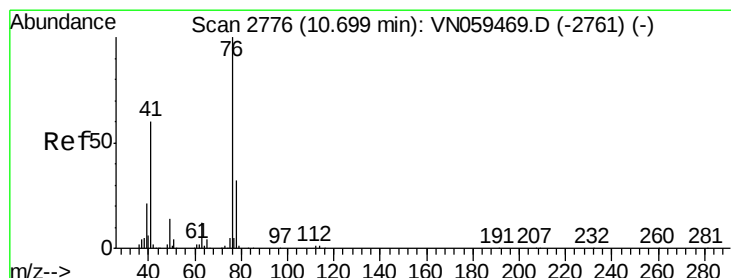
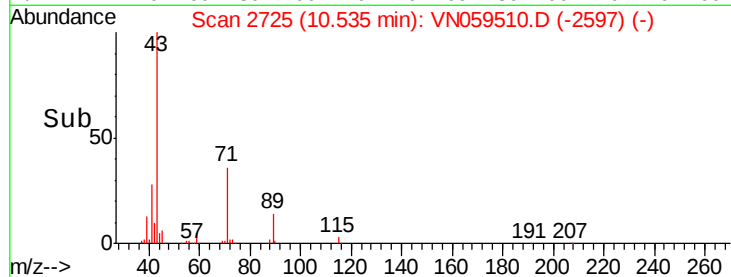
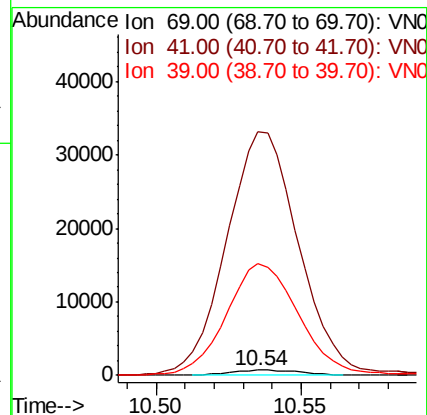
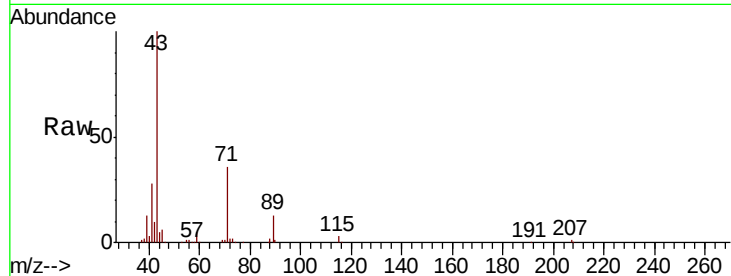
Tot Ion: 69 Resp: 1148

Ion Ratio Lower Upper

69 100

41 5039.7 52.7 79.1#

39 2303.5 25.0 37.6#



#57

1,3-Dichloropropane

Concen: 0.828 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059510.D

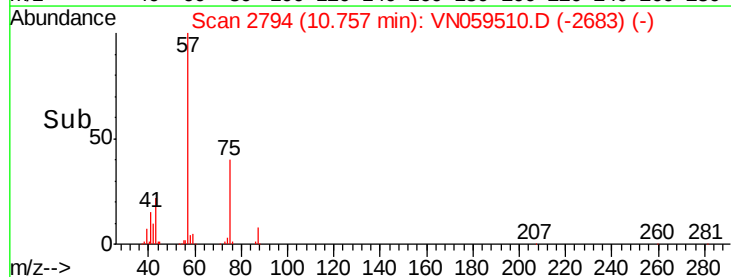
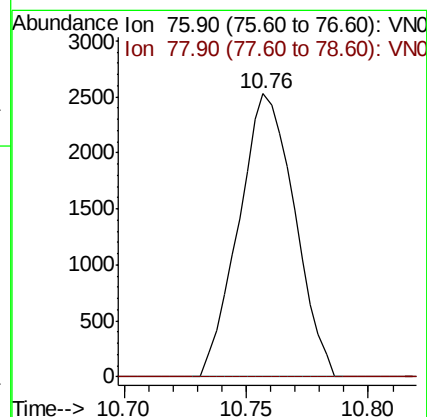
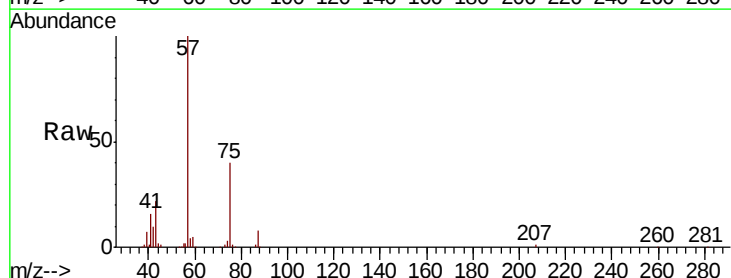
Acq: 6 Dec 2019 13:25

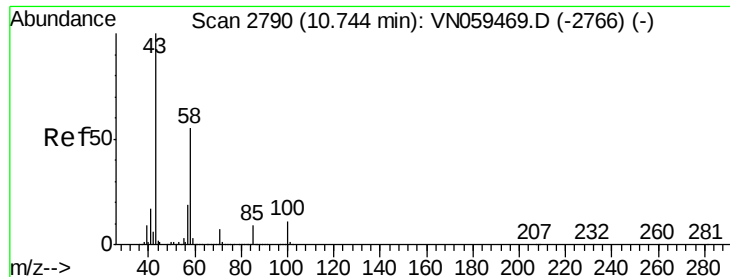
Tgt Ion: 76 Resp: 4004

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

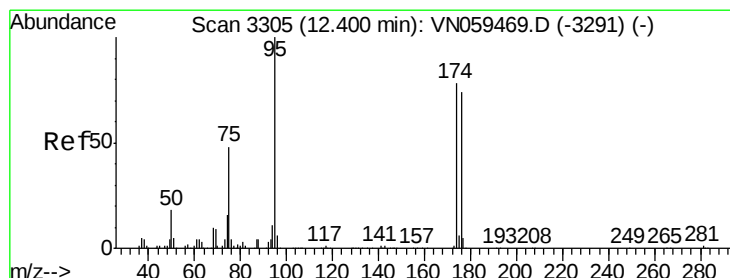
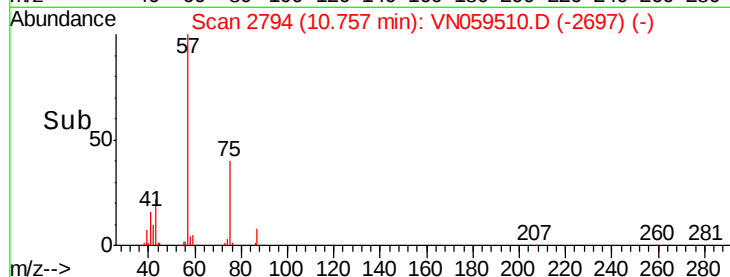
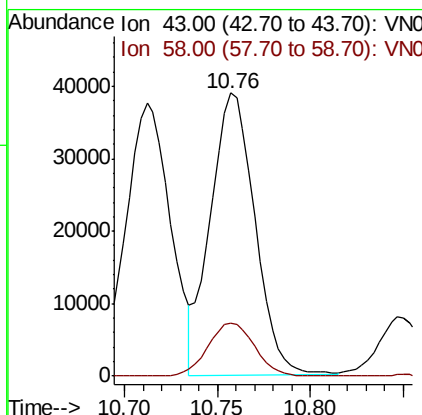
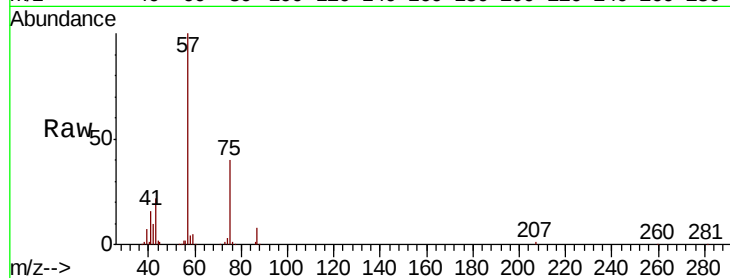




#59
2-Hexanone
Concen: 21.819 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059510.D
Acq: 6 Dec 2019 13:25

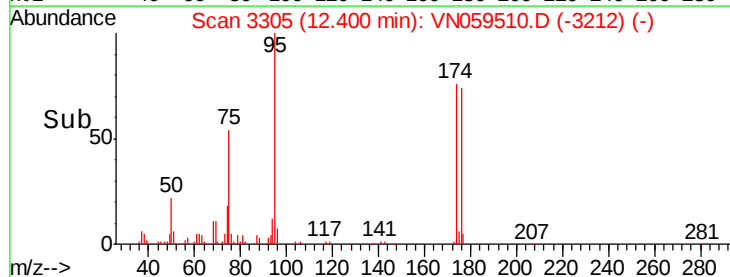
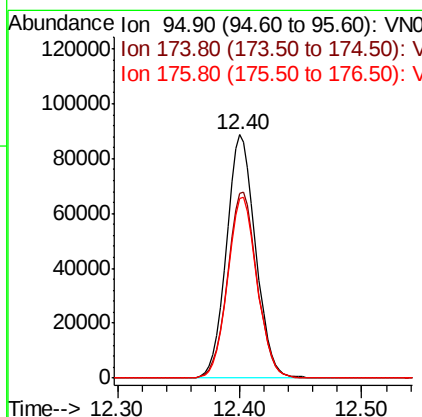
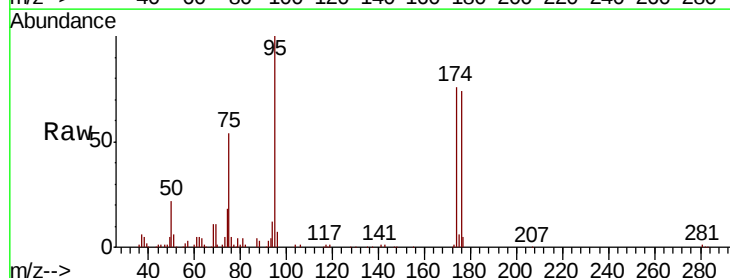
Instrument :
MSVOA_N
ClientSampled :

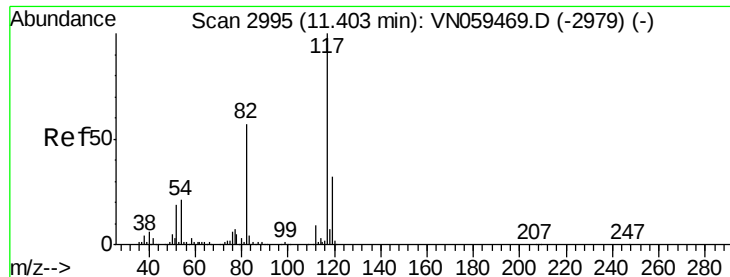
Tot Ion: 43 Resp: 64823
Ion Ratio Lower Upper
43 100
58 19.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 44.903 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059510.D
Acq: 6 Dec 2019 13:25

Tgt Ion: 95 Resp: 148133
Ion Ratio Lower Upper
95 100
174 77.4 0.0 157.0
176 74.9 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

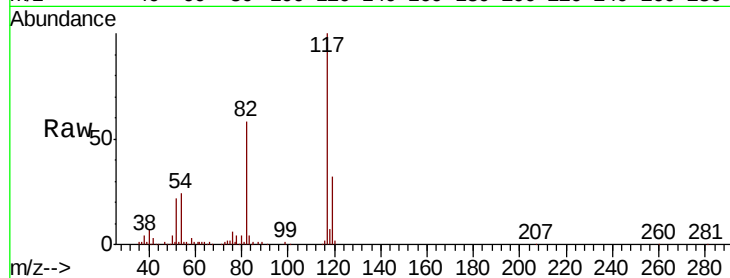
Tot Ion:117 Resp: 344782

Ion Ratio Lower Upper

117 100

82 57.9 45.8 68.8

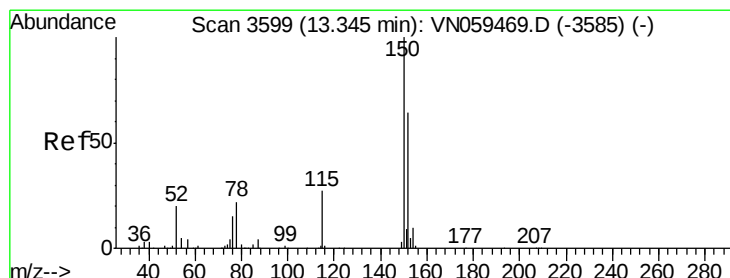
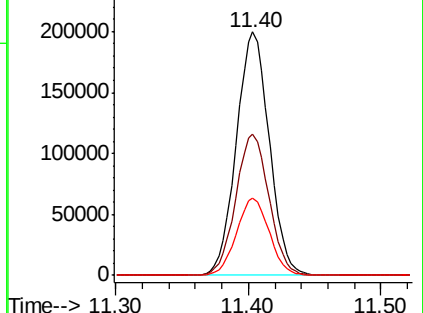
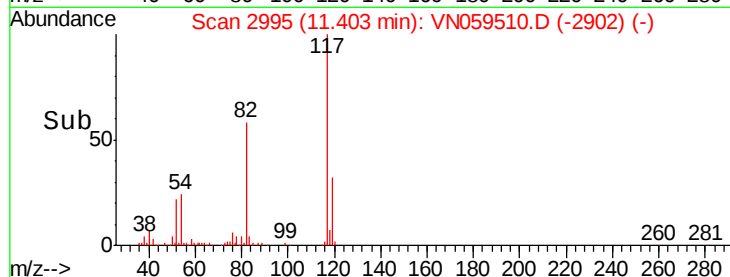
119 31.6 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

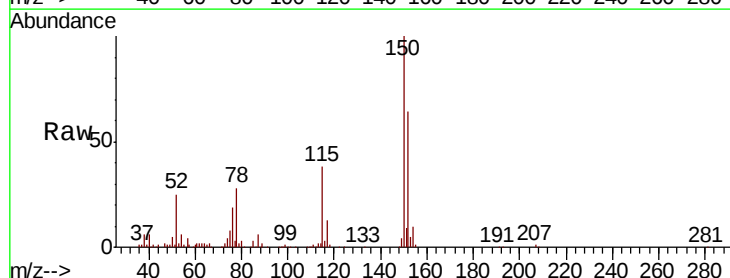
Tgt Ion:152 Resp: 119066

Ion Ratio Lower Upper

152 100

115 59.6 29.2 87.6

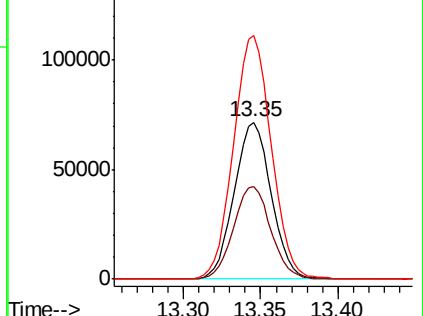
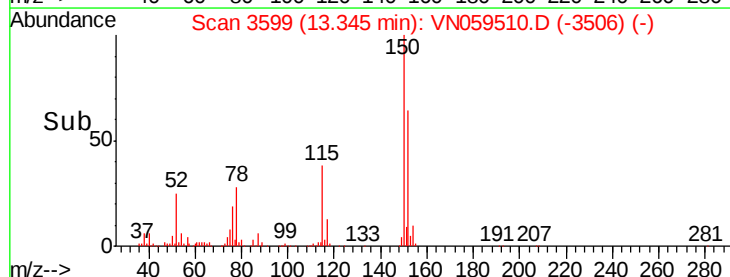
150 158.6 0.0 352.8

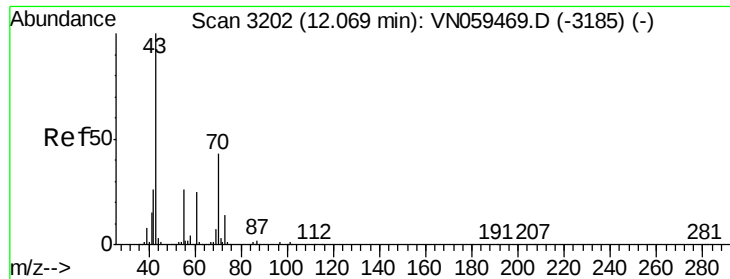


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.851 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3272

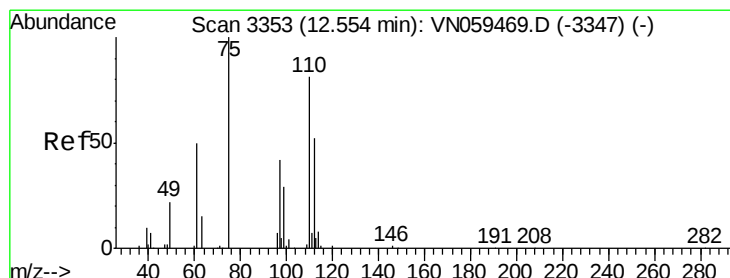
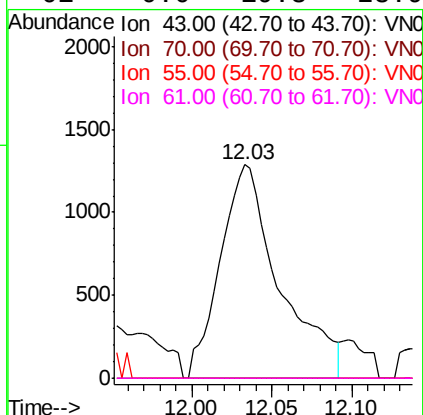
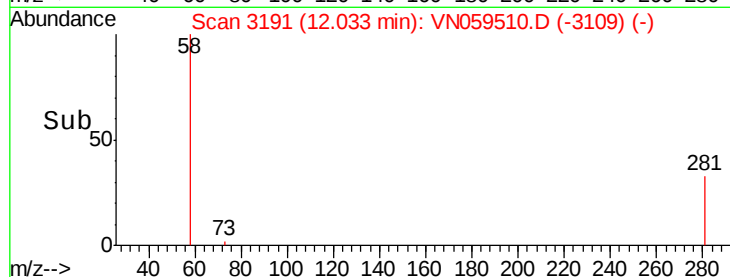
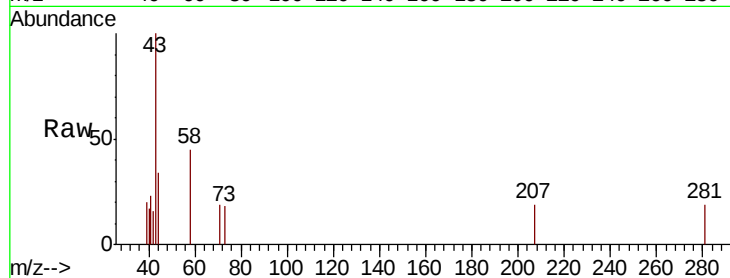
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 0.0 20.6 31.0#

61 0.0 19.3 28.9#



#76

1,2,3-Trichloropropane

Concen: 26.884 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059510.D

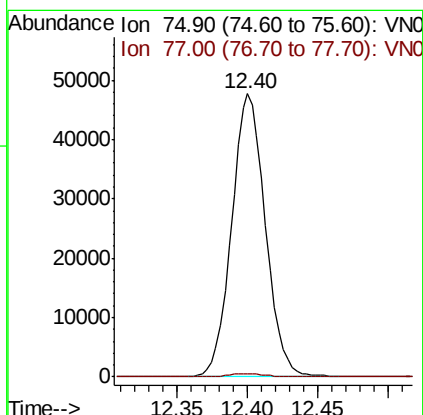
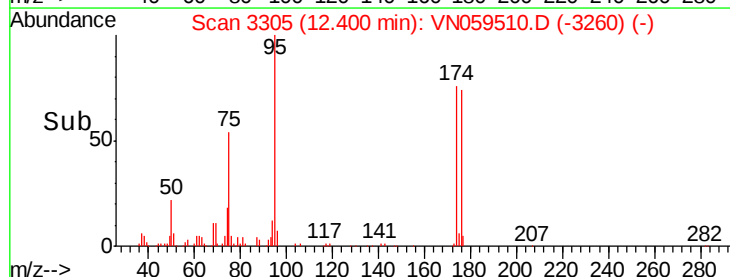
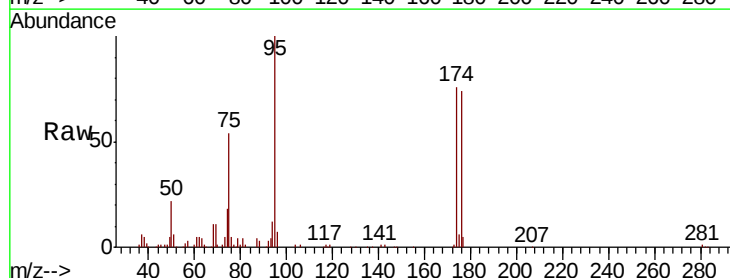
Acq: 6 Dec 2019 13:25

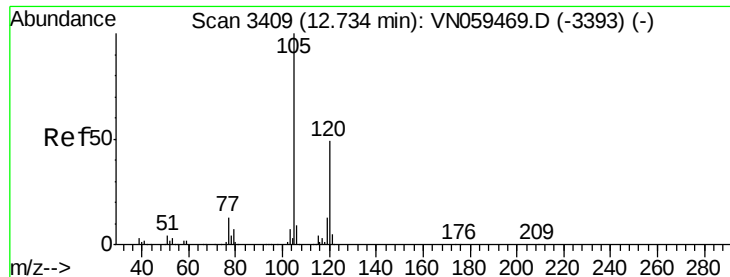
Tgt Ion: 75 Resp: 79589

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

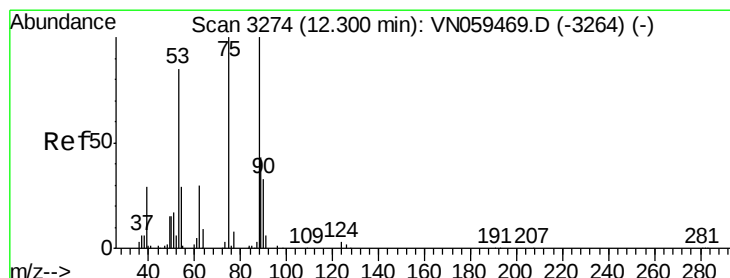
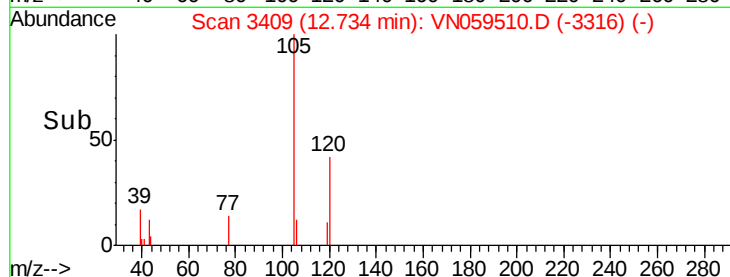
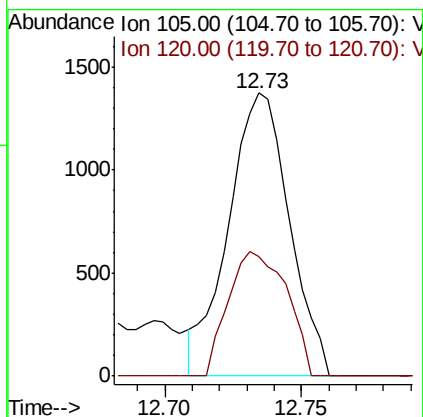
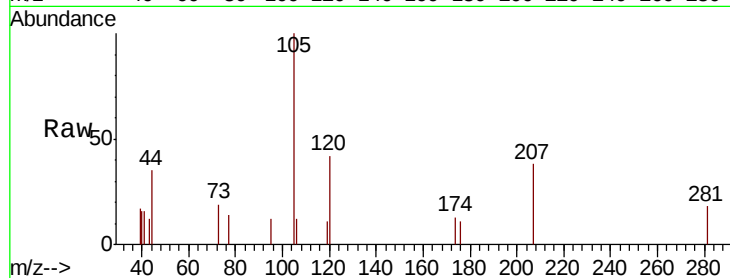
ClientSampleId :

Tot Ion:105 Resp: 2132

Ion Ratio Lower Upper

105 100

120 42.2 24.3 73.0



#81

trans-1,4-Dichloro-2-butene

Concen: 70.553 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

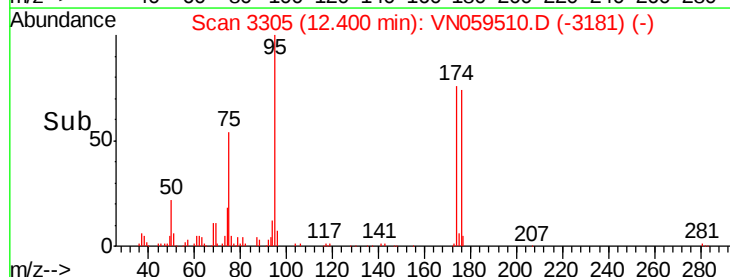
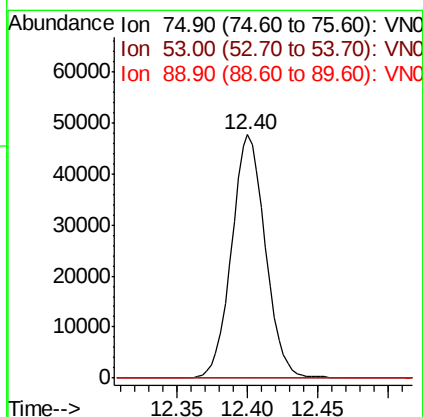
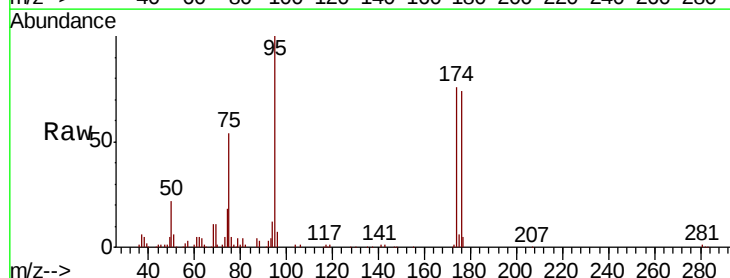
Tgt Ion: 75 Resp: 79589

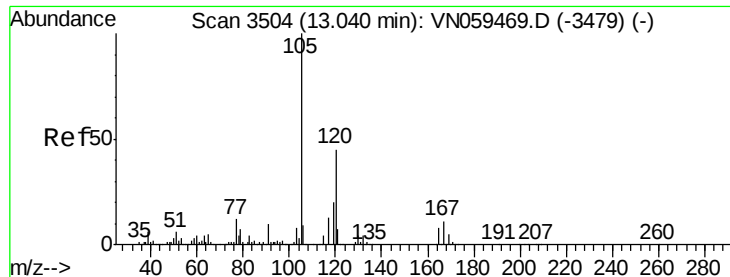
Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.320 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

Instrument :

MSVOA_N

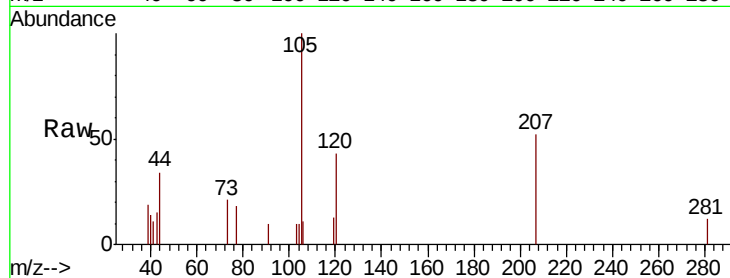
ClientSampled :

Tot Ion:105 Resp: 2498

Ion Ratio Lower Upper

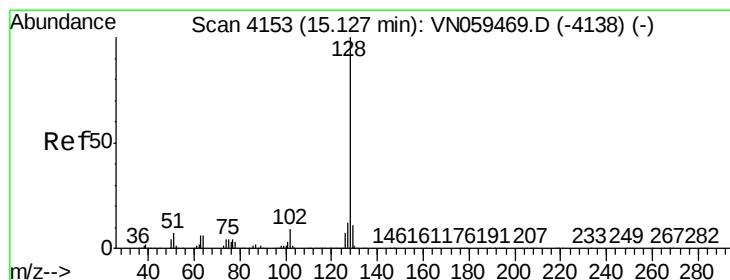
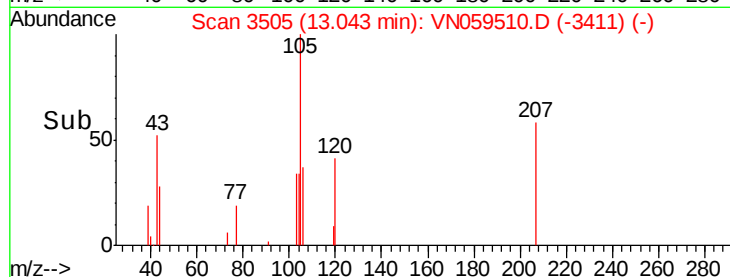
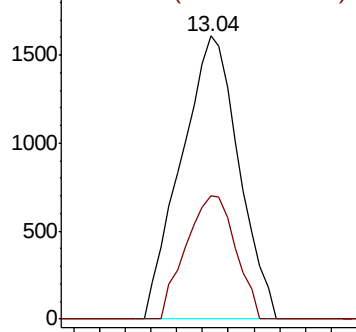
105 100

120 37.6 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 3.141 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059510.D

Acq: 6 Dec 2019 13:25

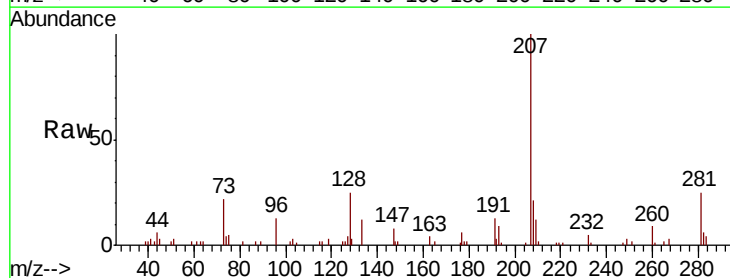
Tgt Ion:128 Resp: 5090

Ion Ratio Lower Upper

128 100

127 14.9 10.2 15.4

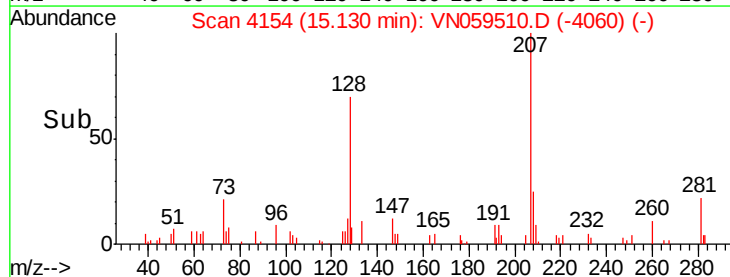
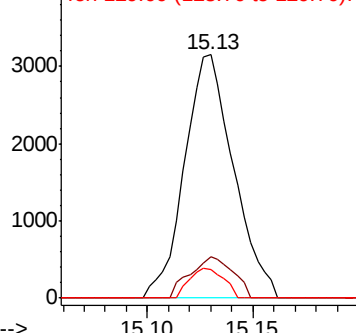
129 8.5 8.8 13.2#

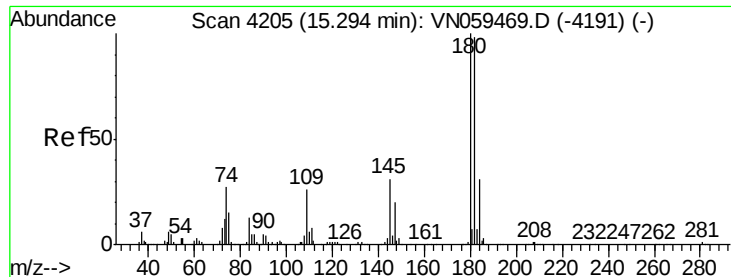


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.261 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN059510.D
 Acq: 6 Dec 2019 13:25

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	64.2	48.5	145.5
145	13.9	16.1	48.2#

