

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059241.D
 Acq On : 14 Nov 2019 17:56
 Operator : JC/SP
 Sample : K5670-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-111219

Quant Time: Nov 15 06:33:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	471089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	732368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	650999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243583	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	285139	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
35) Dibromofluoromethane	7.57	113	218589	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
50) Toluene-d8	10.08	98	892771	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	12.40	95	287873	46.35	ug/l	0.00
Spiked Amount			Recovery	=	92.70%	

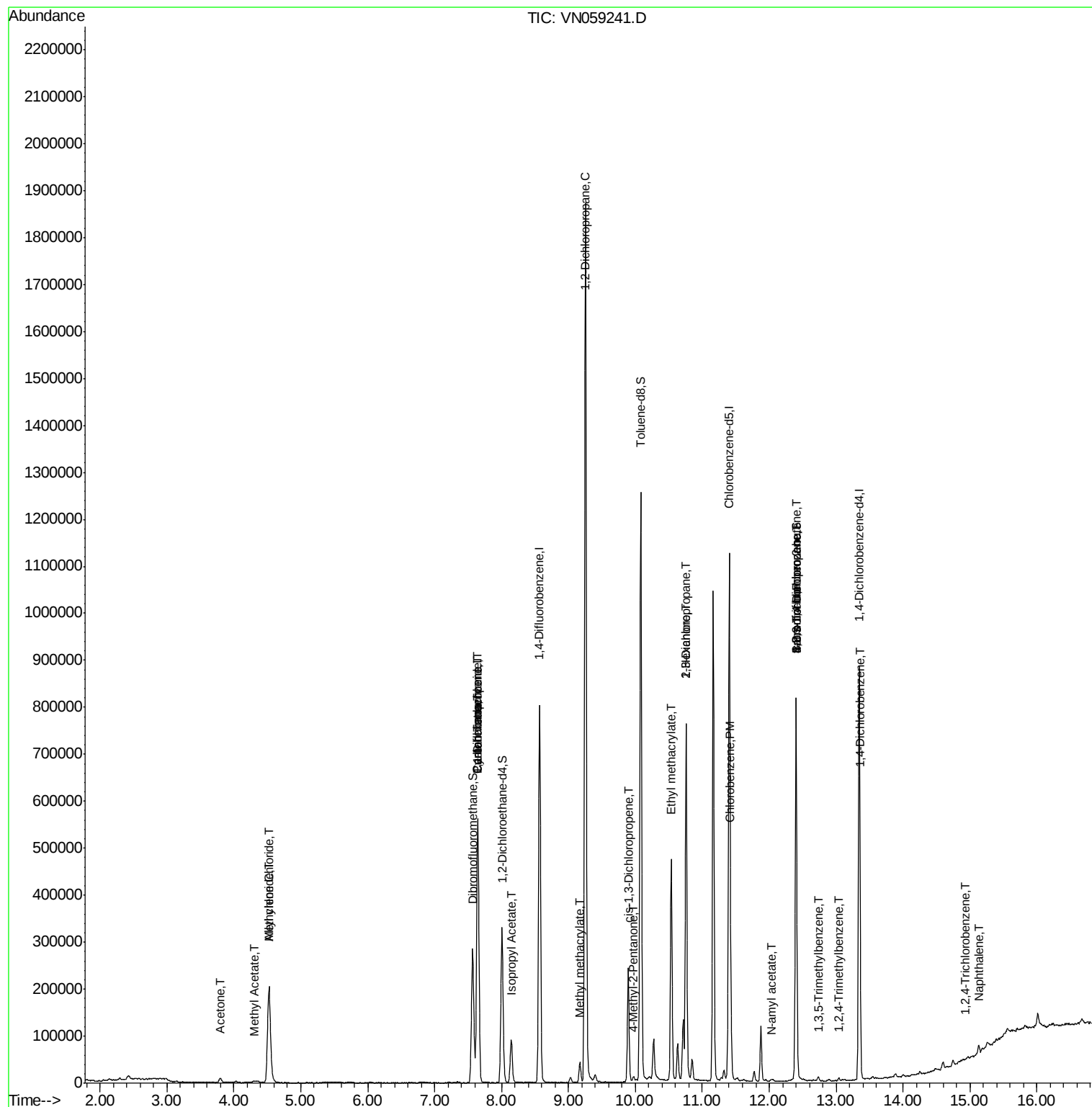
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.52	41	6256	0.693	ug/l #	28
16) Acetone	3.80	43	15391	5.111	ug/l	96
18) Methyl Acetate	4.31	43	4820	0.674	ug/l #	83
20) Methylene Chloride	4.53	84	160396	30.573	ug/l	99
31) Cyclohexane	7.64	56	8918	0.989	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	35136	5.133	ug/l #	50
38) Carbon Tetrachloride	7.64	117	44826	6.579	ug/l #	16
43) Isopropyl Acetate	8.14	43	108474	8.935	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	2341	0.418	ug/l #	44
48) Methyl methacrylate	9.17	41	6851	1.262	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	5469	0.796	ug/l #	85
54) cis-1,3-Dichloropropene	9.90	75	43796	5.058	ug/l #	64
56) Ethyl methacrylate	10.53	69	1717	2.071	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7574	0.880	ug/l #	42
59) 2-Hexanone	10.76	43	114158	21.651	ug/l #	52
65) Chlorobenzene	11.43	112	49306	3.885	ug/l	96
71) Bromoform	12.40	173	887	0.240	ug/l #	1
74) N-amyl acetate	12.03	43	4466	0.595	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	140683	25.369	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4920	0.328	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	140683	67.005	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	4806	0.331	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	3835	0.503	ug/l #	57
93) 1,2,4-Trichlorobenzene	14.93	180	30	3.053	ug/l #	1
95) Naphthalene	15.13	128	12753	3.994	ug/l	99

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

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Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 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: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

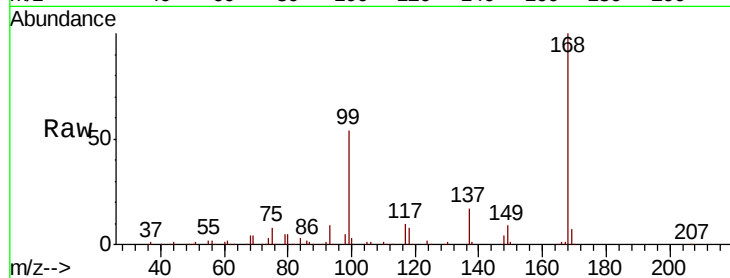
OK-03-111219

Tot Ion:168 Resp: 471089

Ion Ratio Lower Upper

168 100

99 54.4 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

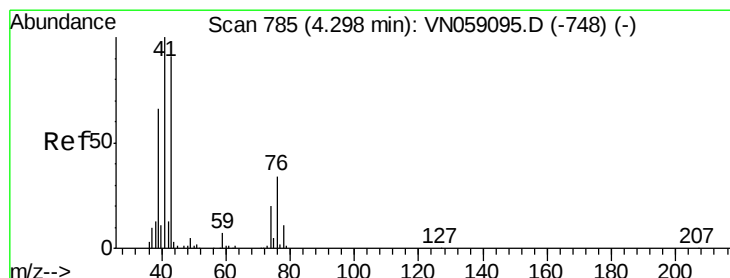
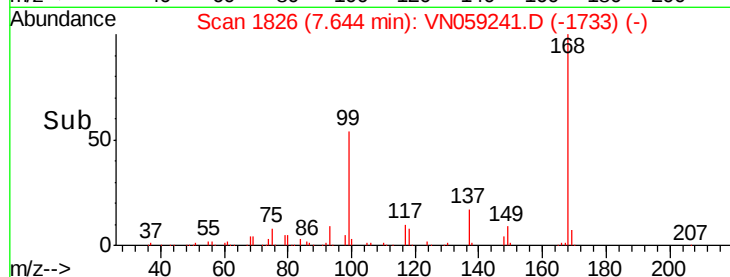
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#14

Allyl chloride

Concen: 0.693 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.22 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

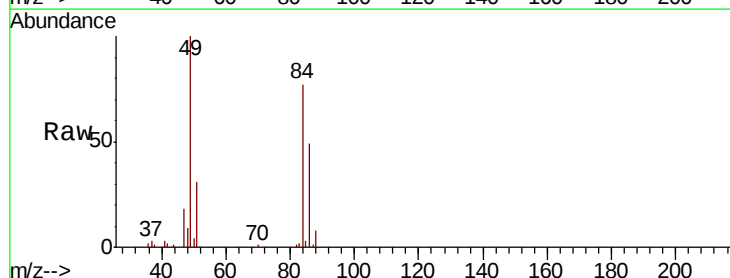
Tgt Ion: 41 Resp: 6256

Ion Ratio Lower Upper

41 100

39 0.0 49.1 73.7#

76 0.0 24.9 37.3#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.52

2500

2000

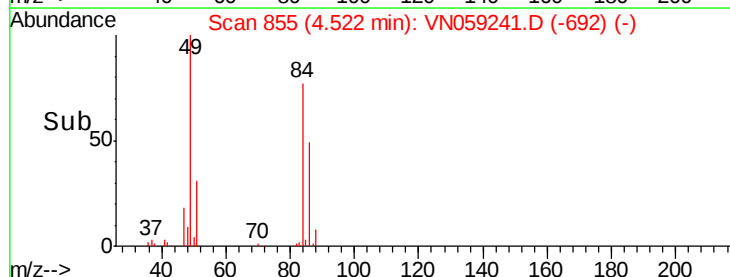
1500

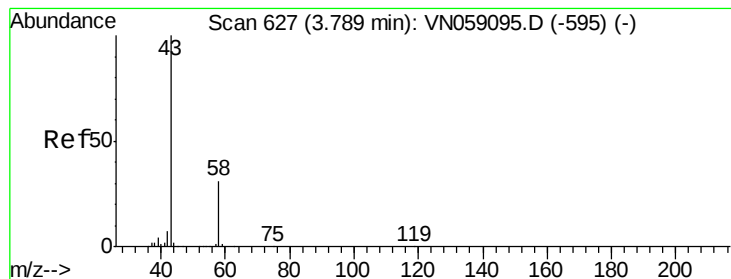
1000

500

0

Time--> 4.45 4.50 4.55 4.60





#16

Acetone

Concen: 5.111 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

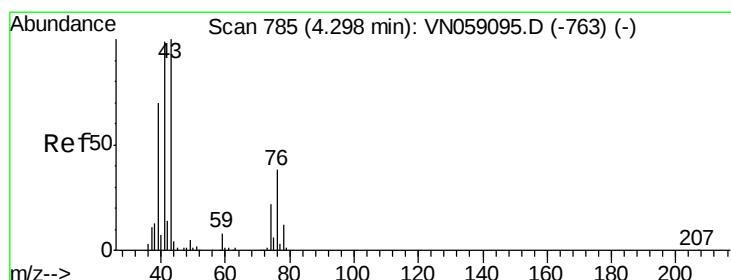
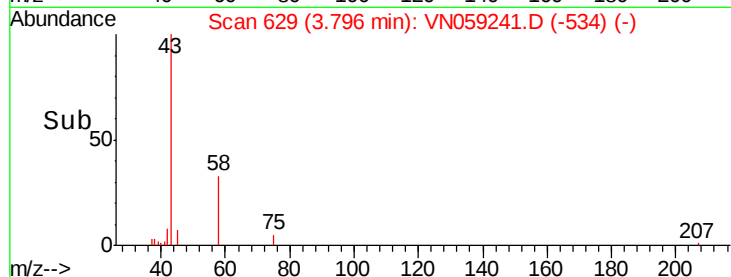
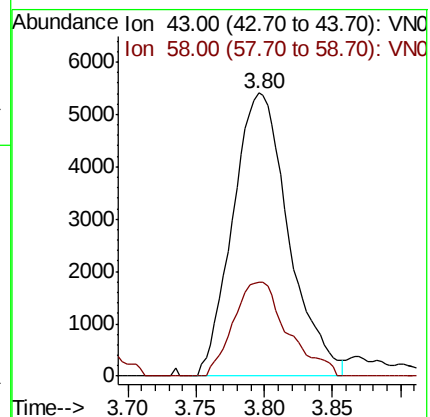
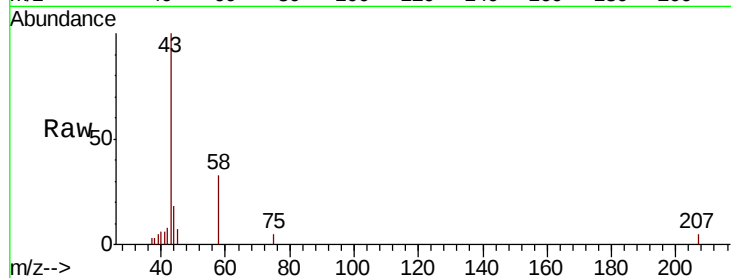
OK-03-111219

Tot Ion: 43 Resp: 15391

Ion Ratio Lower Upper

43 100

58 33.2 24.9 37.3



#18

Methyl Acetate

Concen: 0.674 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN059241.D

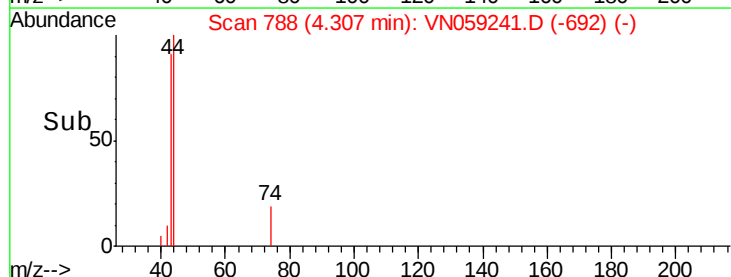
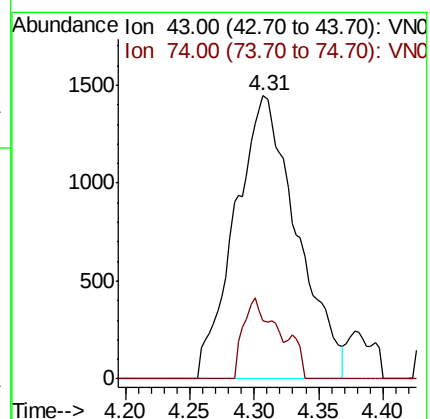
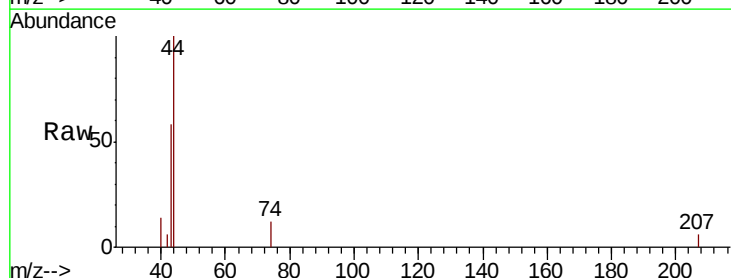
Acq: 14 Nov 2019 17:56

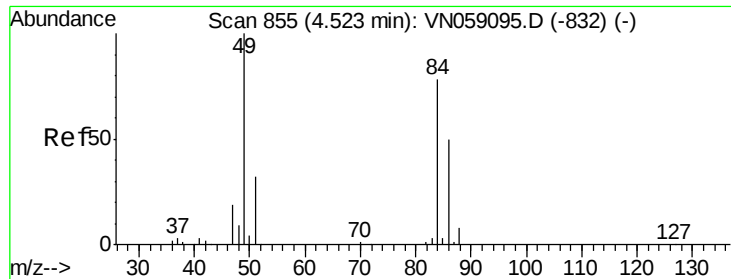
Tgt Ion: 43 Resp: 4820

Ion Ratio Lower Upper

43 100

74 14.0 17.8 26.8#

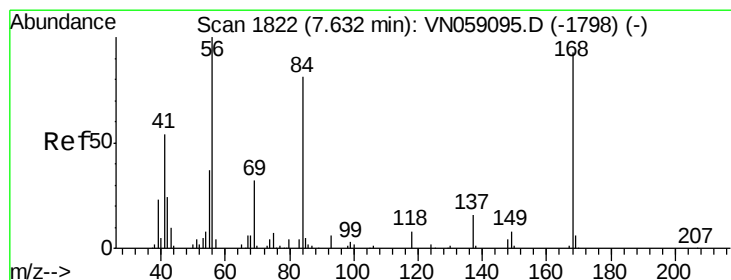
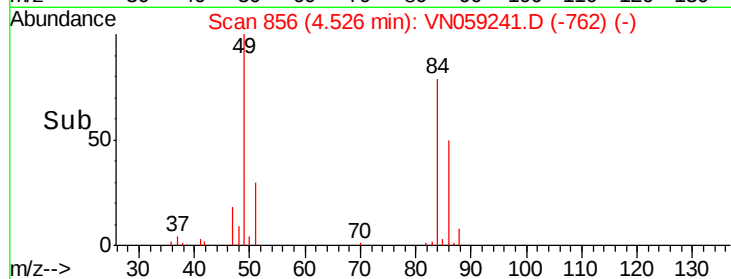
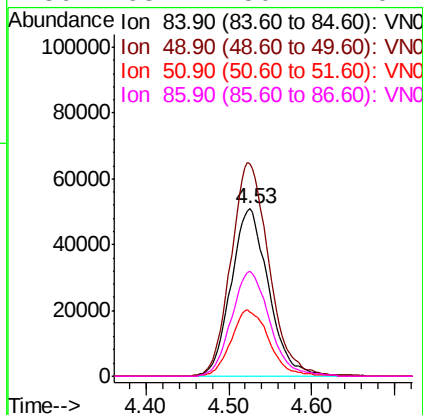
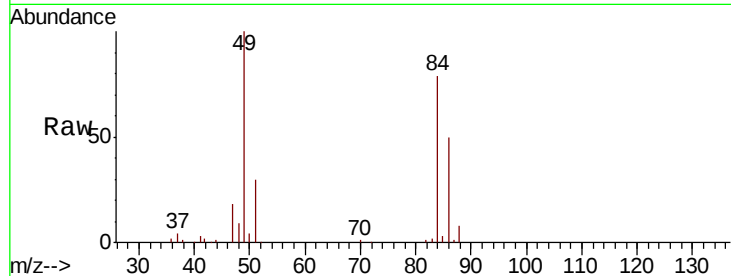




#20
Methvlene Chloride
Concen: 30.573 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

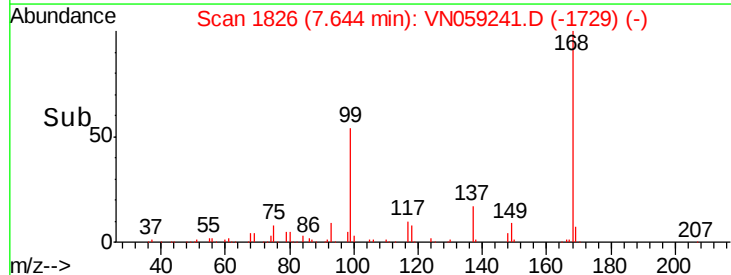
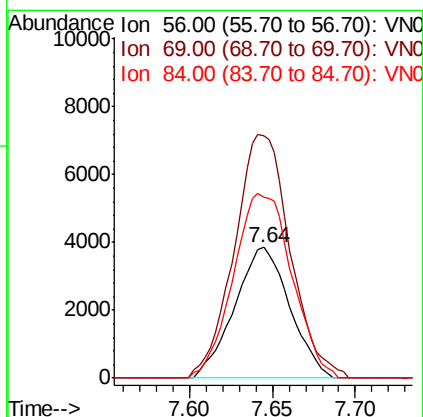
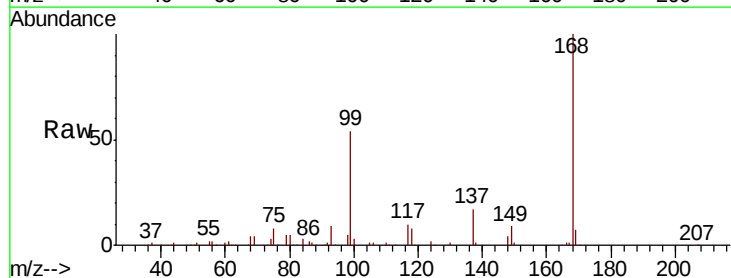
Instrument :
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OK-03-111219

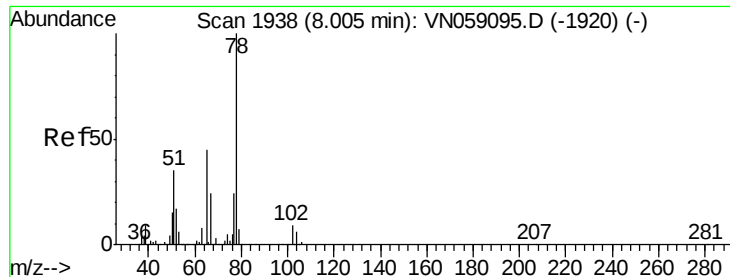
Tot Ion:	84	Resp:	160396
Ion	Ratio	Lower	Upper
84	100		
49	127.1	102.0	153.0
51	38.6	32.2	48.2
86	63.1	50.7	76.1



#31
Cyclohexane
Concen: 0.989 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Tgt Ion:	56	Resp:	8918
Ion	Ratio	Lower	Upper
56	100		
69	184.8	25.8	38.8#
84	138.4	65.0	97.4#





#33

1,2-Dichloroethane-d4

Concen: 49.239 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

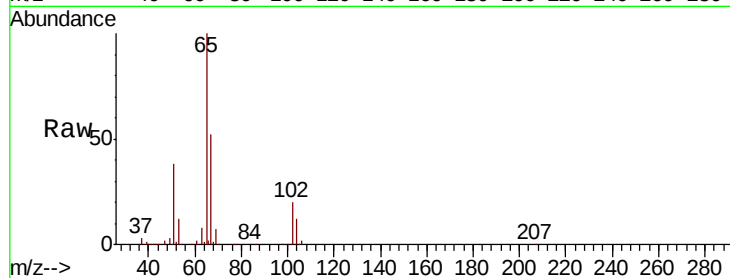
OK-03-111219

Tot Ion: 65 Resp: 285139

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VN059241.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059241.D (-1845) (-)

8.01

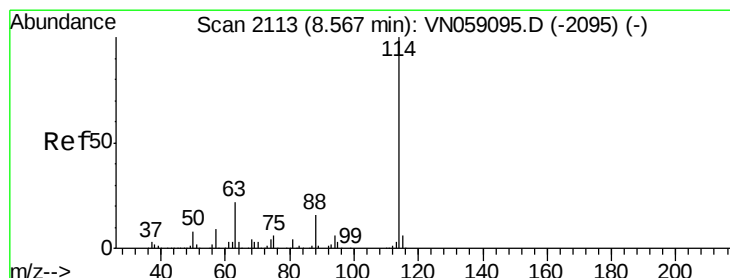
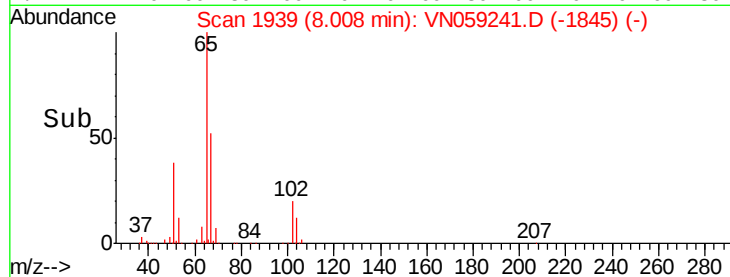
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

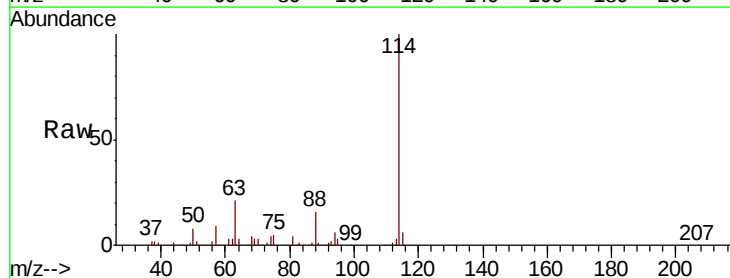
Tgt Ion: 114 Resp: 732368

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.4

88 16.3 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059241.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059241.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059241.D (-2020) (-)

8.57

400000

300000

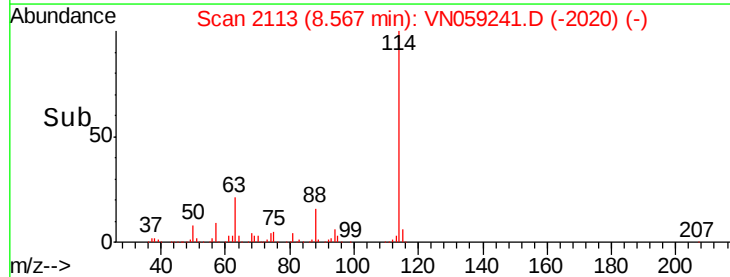
200000

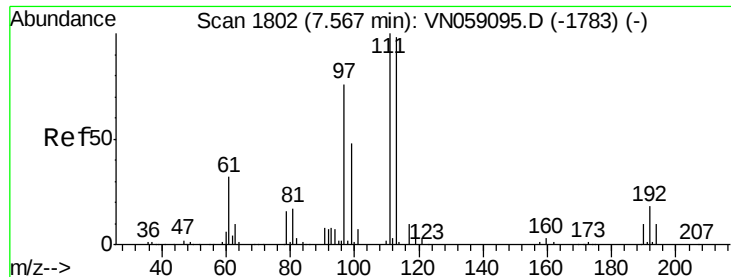
100000

0

8.50 8.60 8.70

Time-->

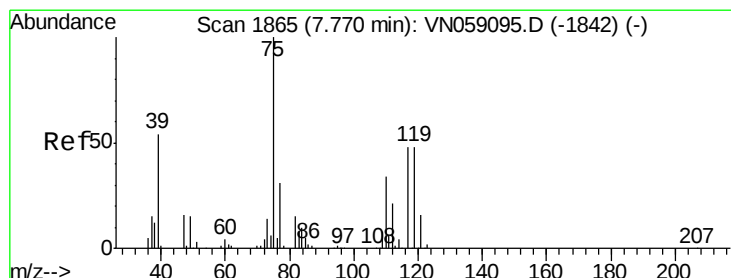
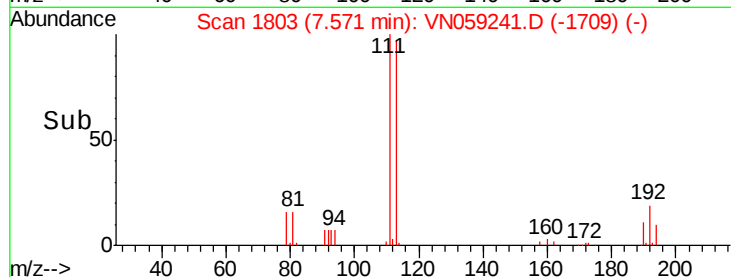
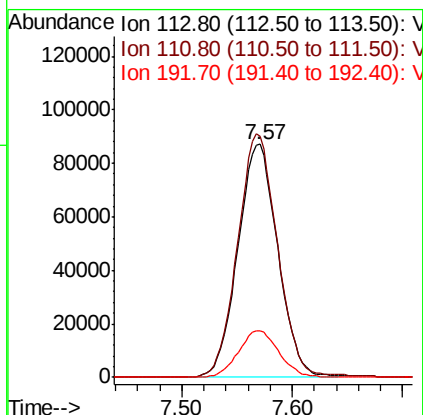
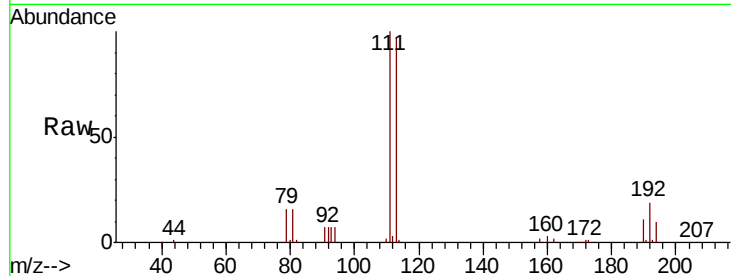




#35
Dibromofluoromethane
Concen: 49.987 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

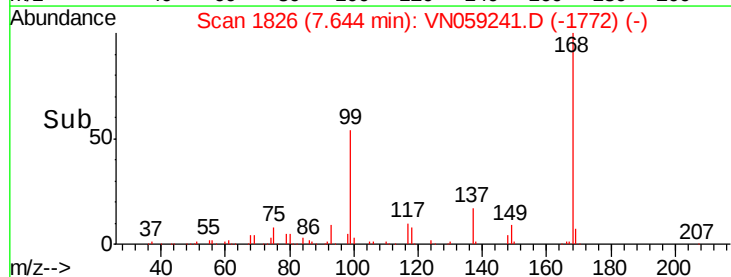
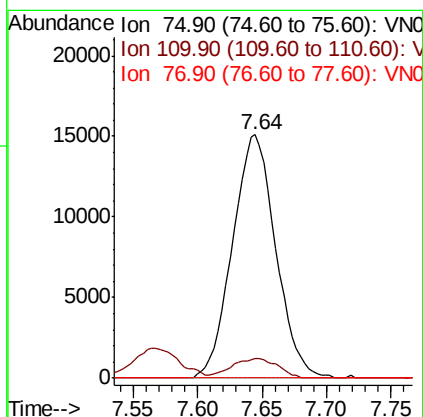
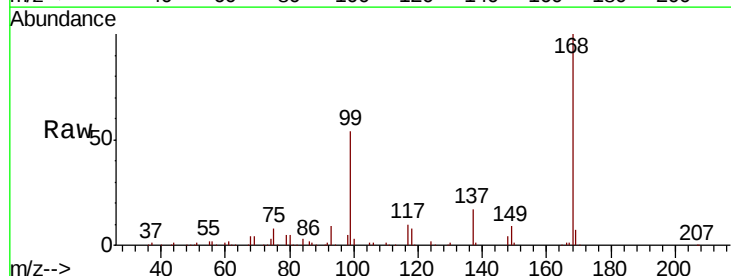
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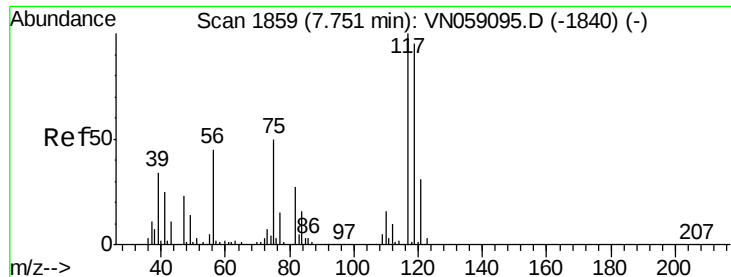
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.8	124.2
192	20.3	16.1	24.1



#36
1,1-Dichloropropene
Concen: 5.133 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.1	51.2#
77	0.0	24.8	37.2#

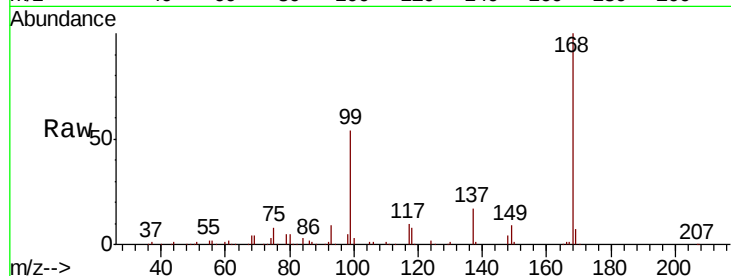




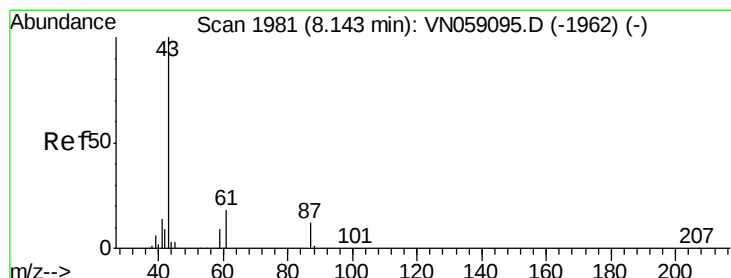
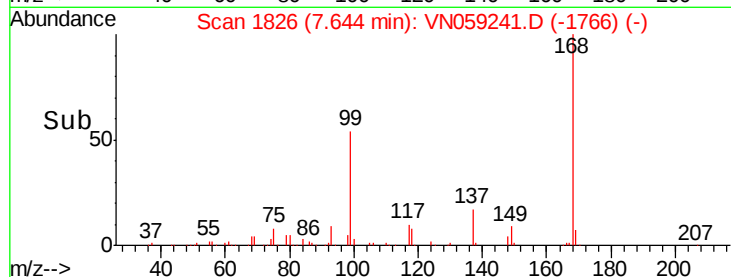
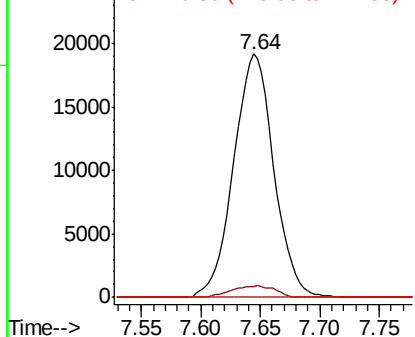
#38
Carbon Tetrachloride
Concen: 6.579 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :
OK-03-111219

Tot Ion:117 Resp: 44826
Ion Ratio Lower Upper
117 100
119 4.6 75.6 113.4#
121 0.0 24.6 36.8#

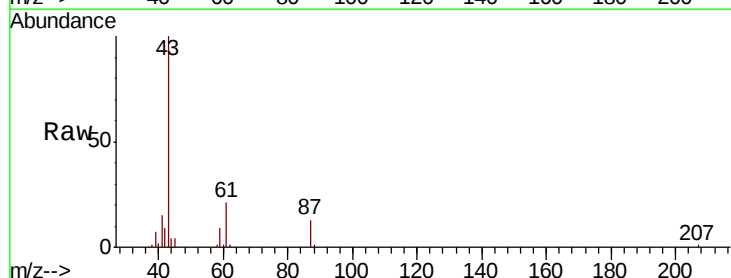


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

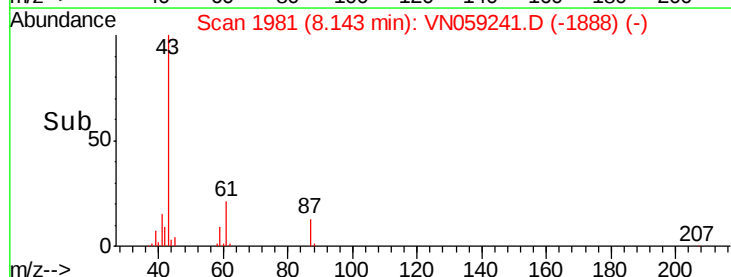
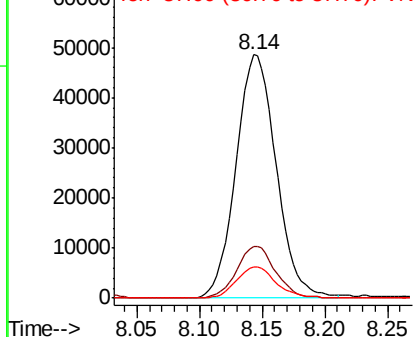


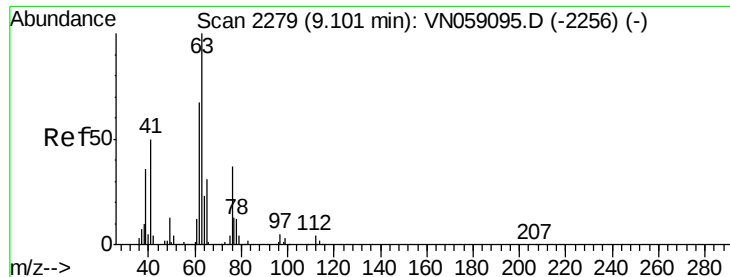
#43
Isopropyl Acetate
Concen: 8.935 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Tgt Ion: 43 Resp: 108474
Ion Ratio Lower Upper
43 100
61 20.5 21.0 31.6#
87 12.4 9.8 14.6



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: 0.418 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

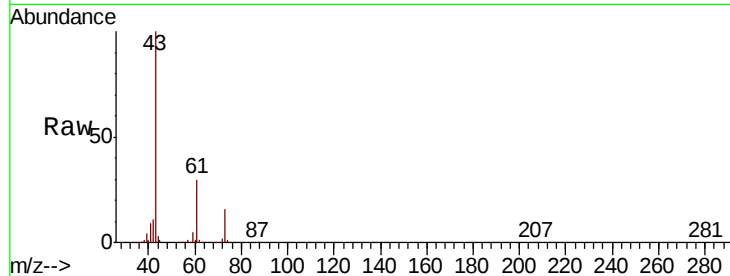
OK-03-111219

Tot Ion: 63 Resp: 2341

Ion Ratio Lower Upper

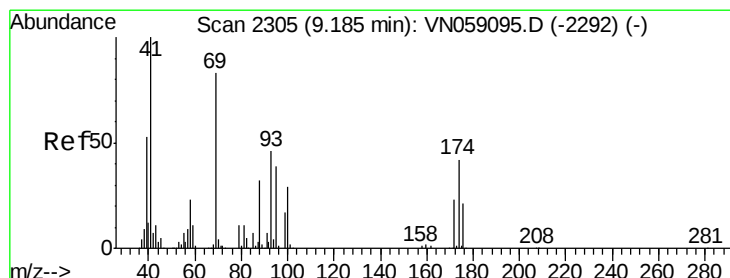
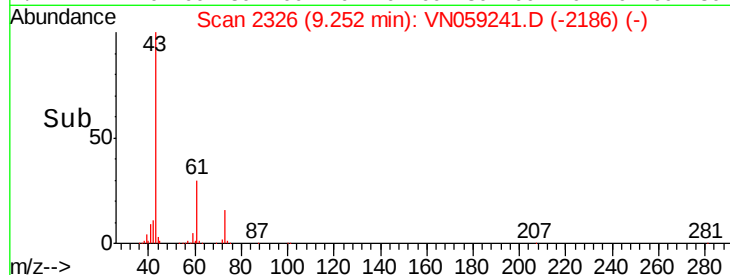
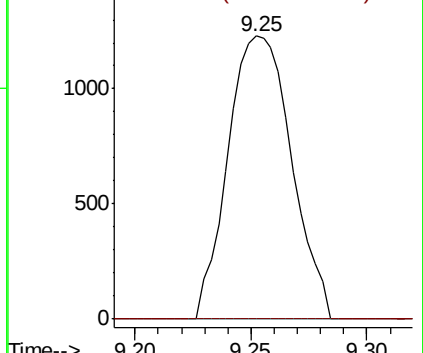
63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.262 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

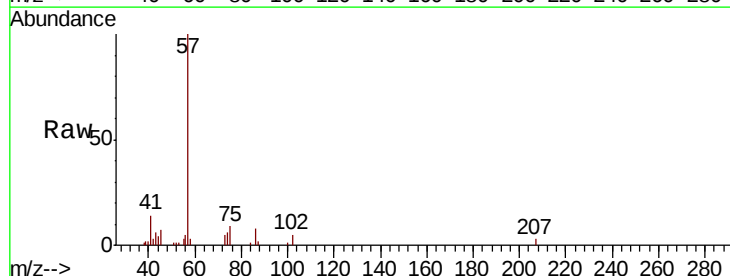
Tgt Ion: 41 Resp: 6851

Ion Ratio Lower Upper

41 100

69 0.0 67.3 100.9#

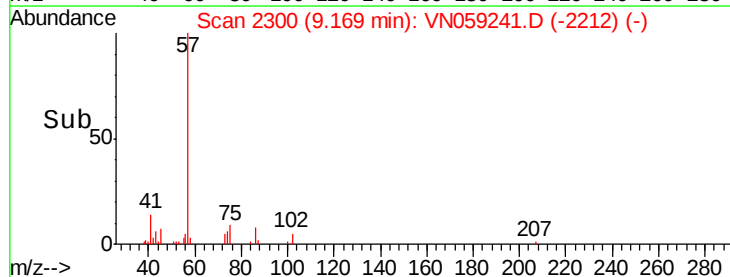
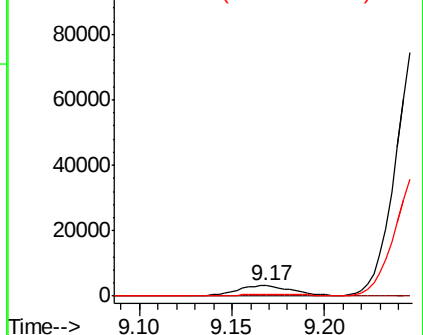
39 0.0 43.3 64.9#

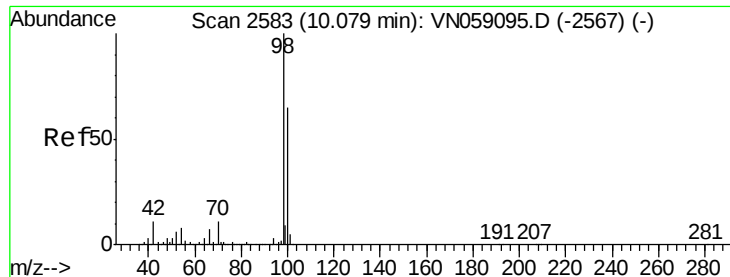


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 51.831 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampled :

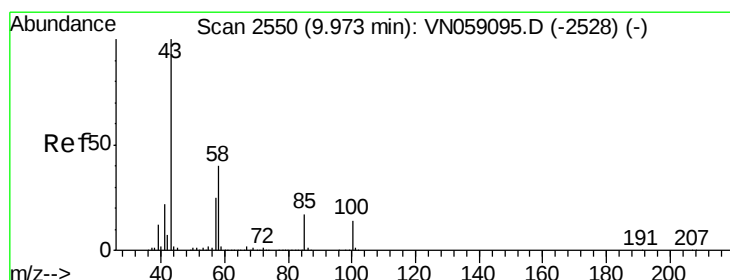
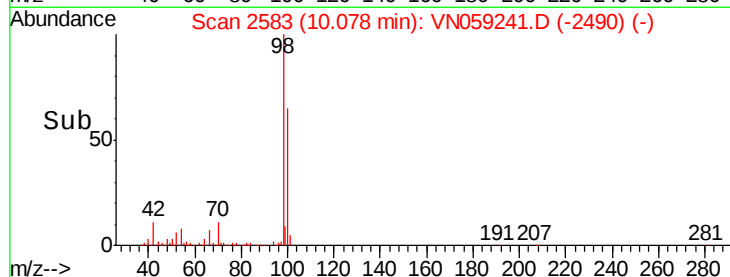
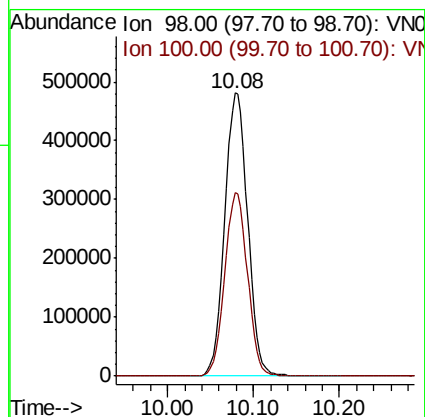
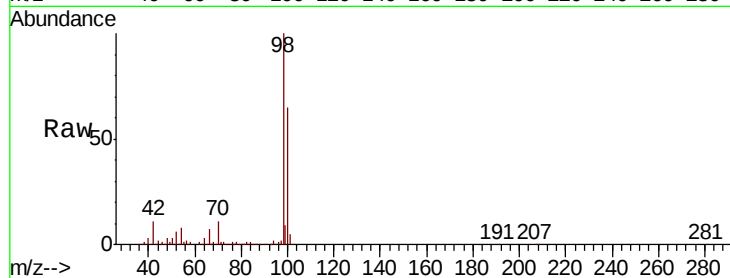
OK-03-111219

Tot Ion: 98 Resp: 892771

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 0.796 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059241.D

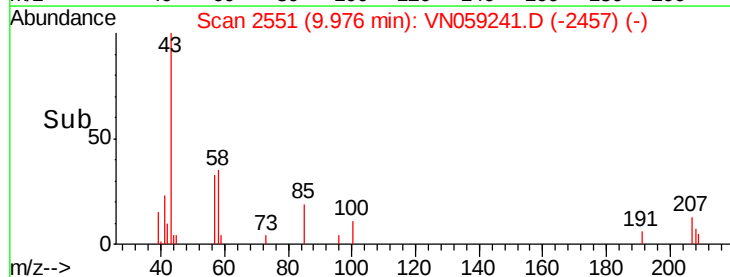
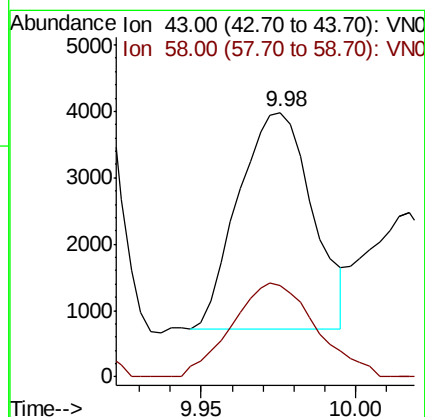
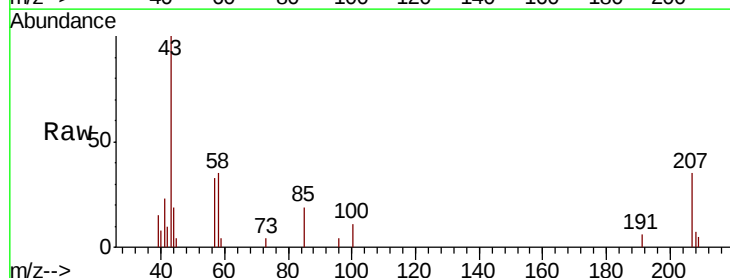
Acq: 14 Nov 2019 17:56

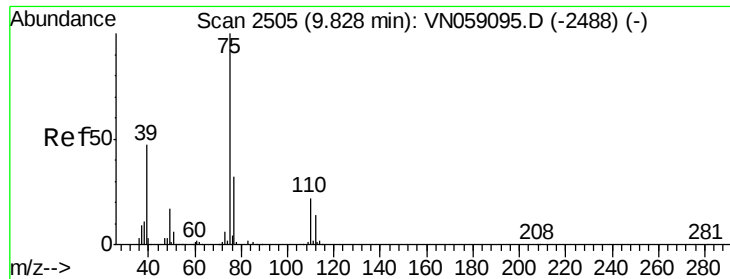
Tgt Ion: 43 Resp: 5469

Ion Ratio Lower Upper

43 100

58 48.7 31.5 47.3#



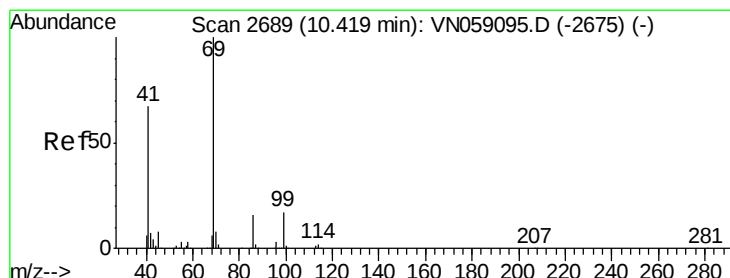
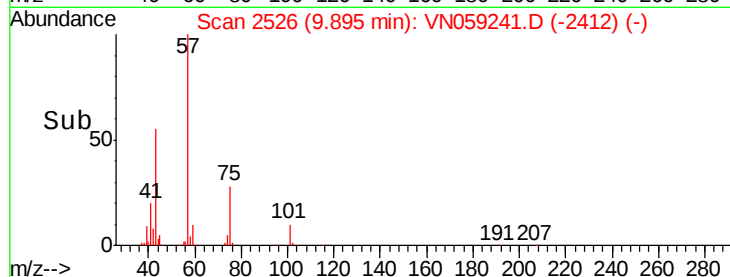
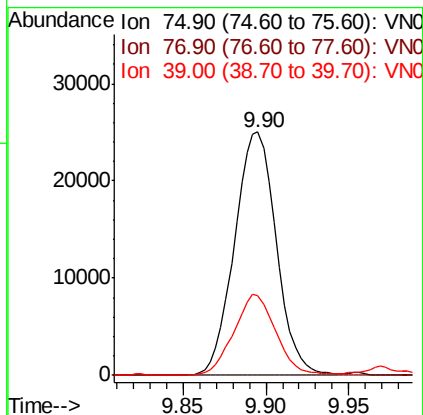
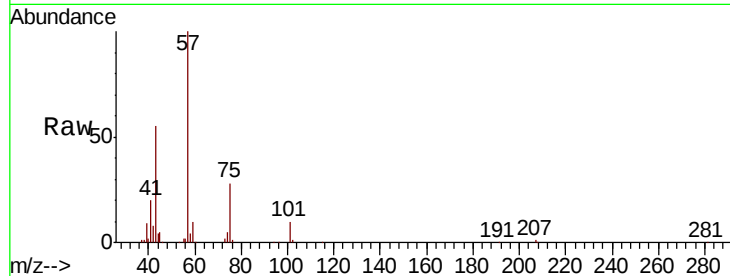


#54

cis-1,3-Dichloropropene
 Concen: 5.058 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN059241.D
 Acq: 14 Nov 2019 17:56

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-111219

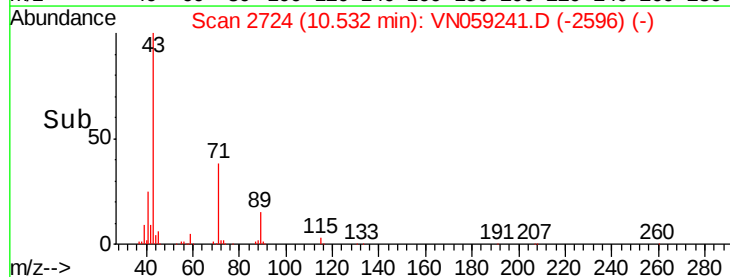
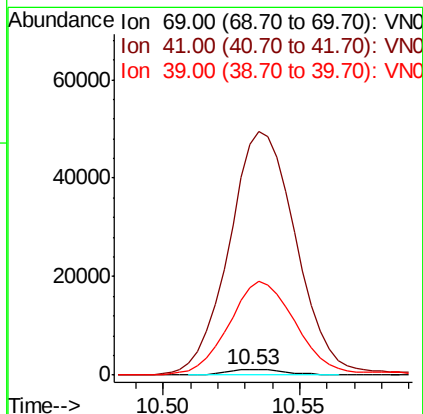
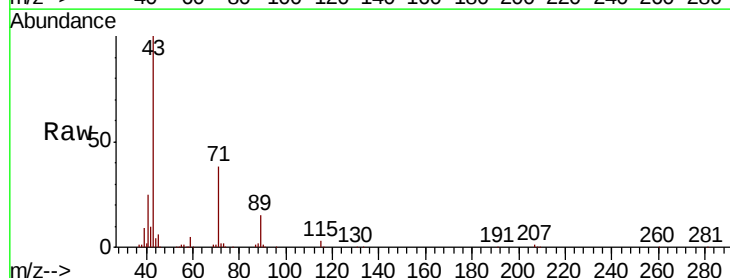
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.5	38.3#
39	32.7	37.3	55.9#

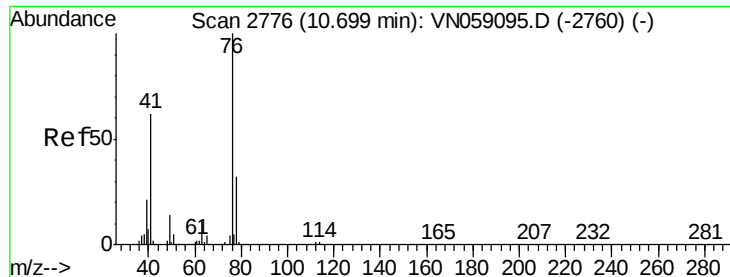


#56

Ethyl methacrylate
 Concen: 2.071 ug/l
 RT: 10.53 min Scan# 2724
 Delta R.T. 0.11 min
 Lab File: VN059241.D
 Acq: 14 Nov 2019 17:56

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4960.6	53.6	80.4#
39	1891.5	26.2	39.4#





#57

1,3-Dichloropropane

Concen: 0.880 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

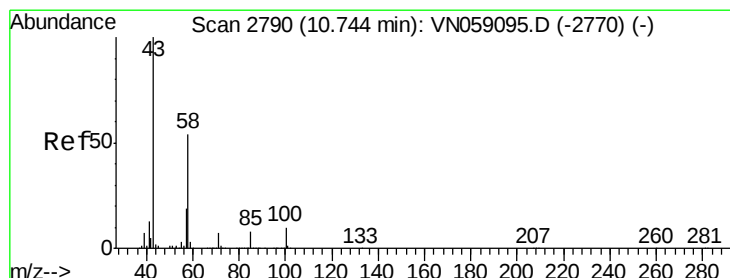
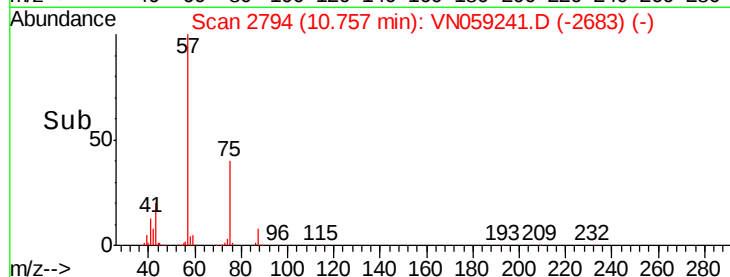
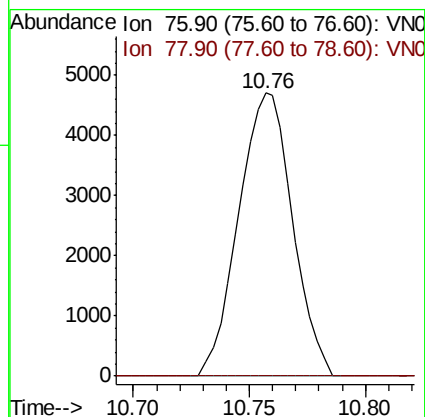
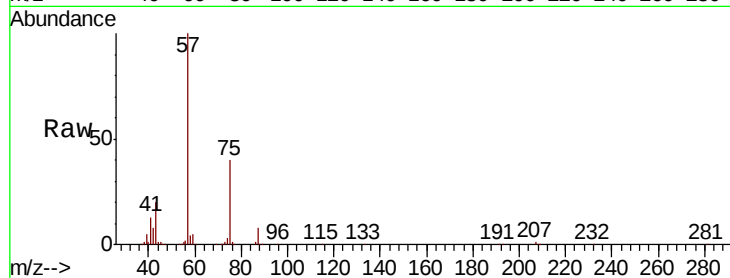
OK-03-111219

Tot Ion: 76 Resp: 7574

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 21.651 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN059241.D

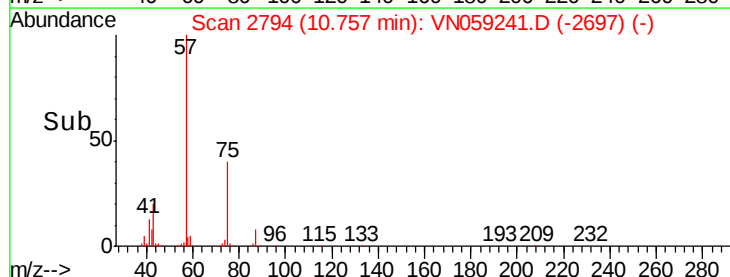
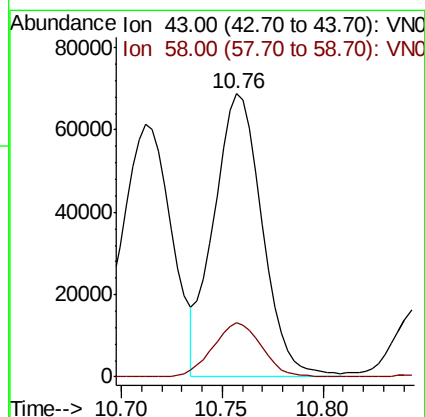
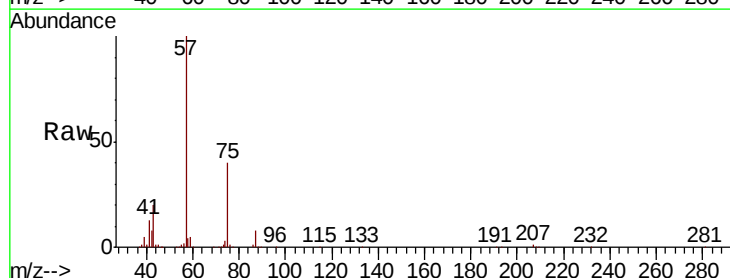
Acq: 14 Nov 2019 17:56

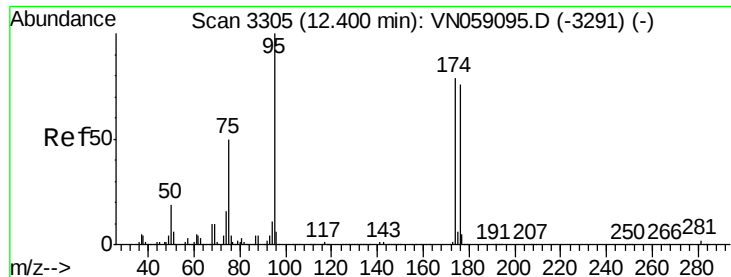
Tgt Ion: 43 Resp: 114158

Ion Ratio Lower Upper

43 100

58 19.6 27.3 81.8#

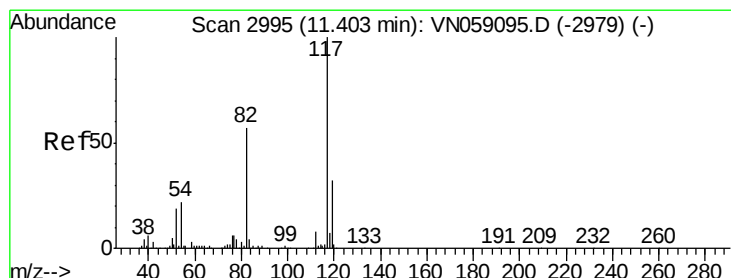
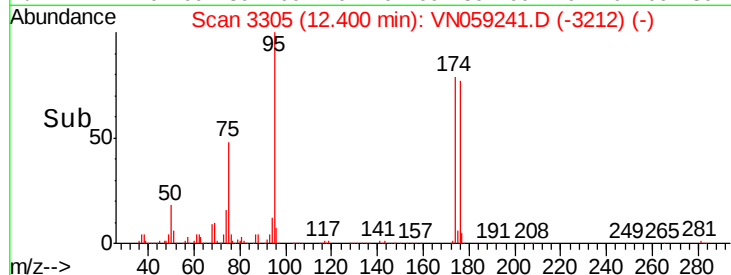
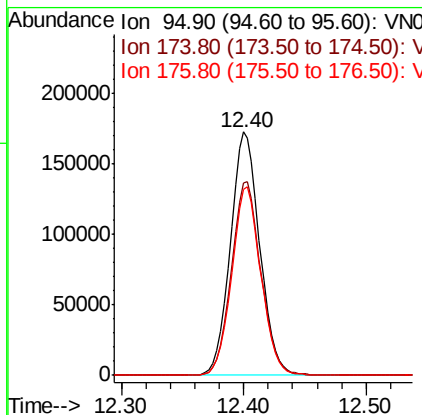
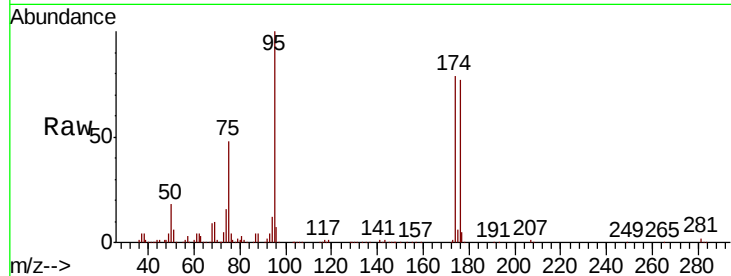




#62
4-Bromofluorobenzene
Concen: 46.352 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

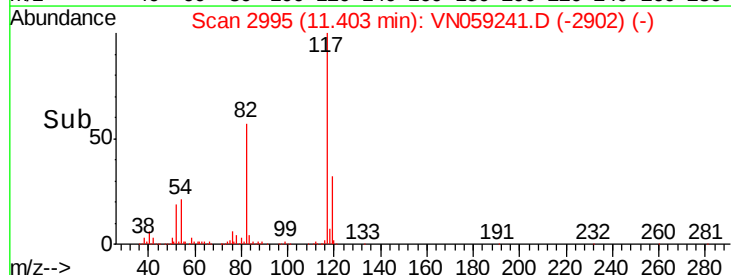
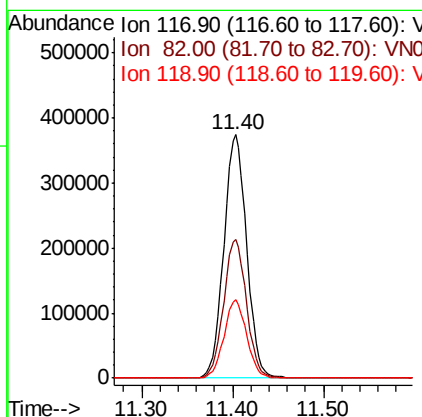
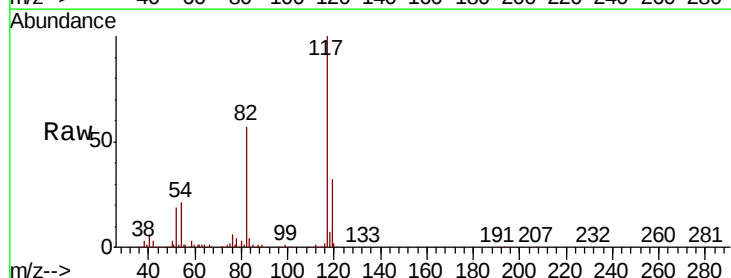
Instrument :
MSVOA_N
ClientSampleId :
OK-03-111219

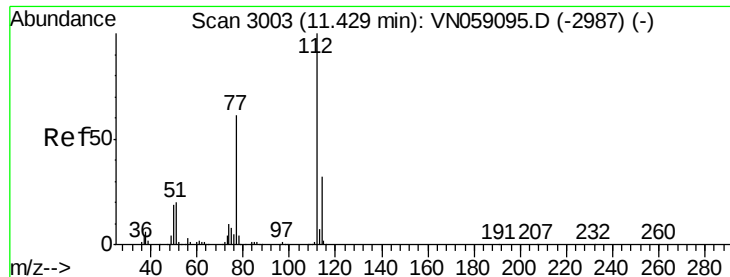
Tot Ion: 95 Resp: 287873
Ion Ratio Lower Upper
95 100
174 80.1 0.0 158.2
176 77.2 0.0 151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Tgt Ion: 117 Resp: 650999
Ion Ratio Lower Upper
117 100
82 57.1 45.8 68.8
119 32.1 25.8 38.6

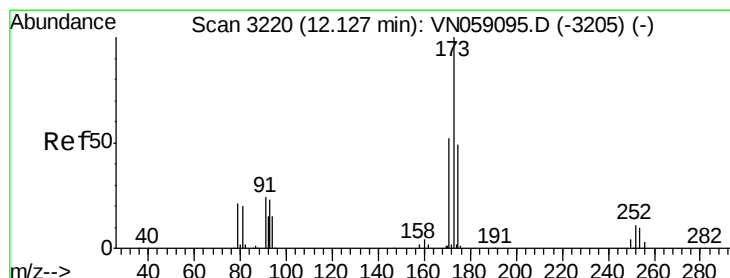
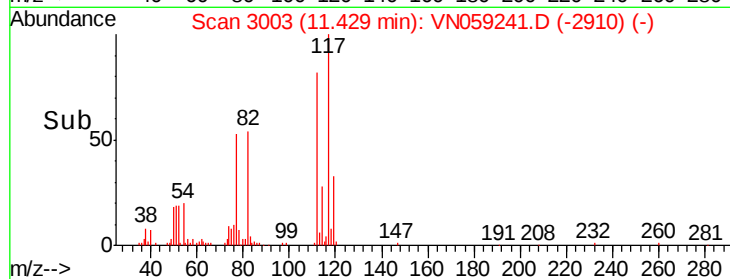
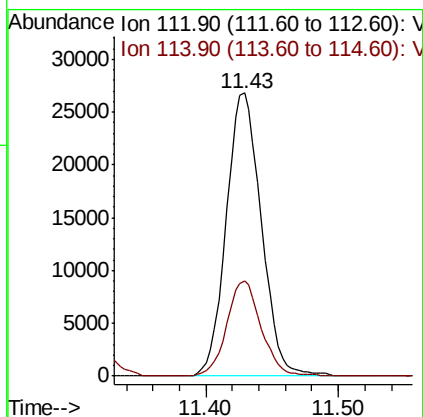
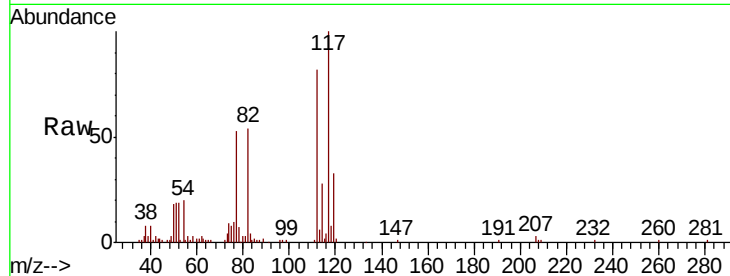




#65
Chlorobenzene
Concen: 3.885 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

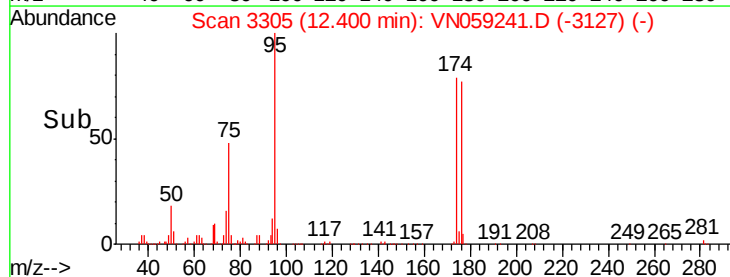
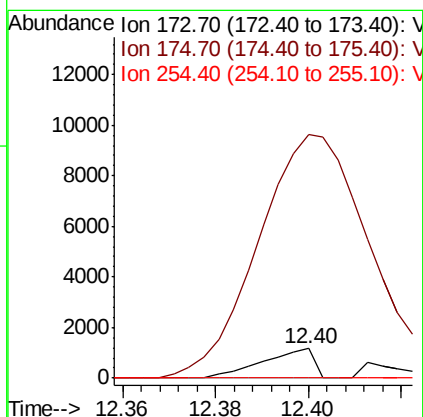
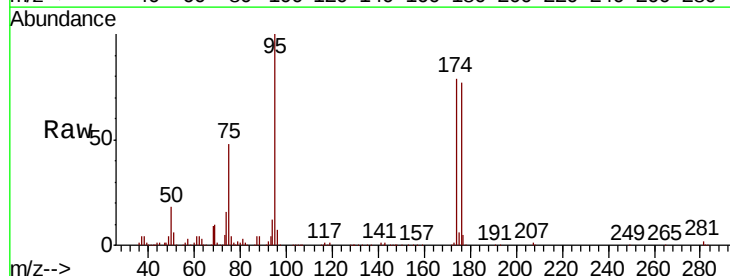
Instrument :
MSVOA_N
ClientSampleId :
OK-03-111219

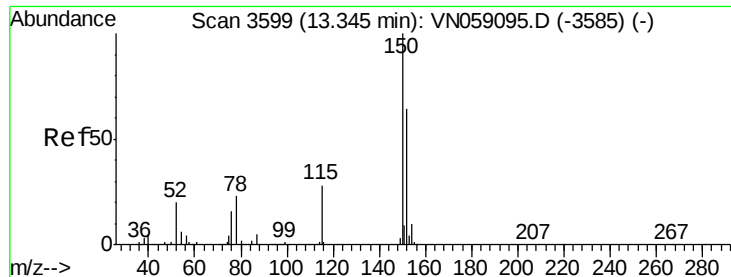
Tot Ion:112 Resp: 49306
Ion Ratio Lower Upper
112 100
114 33.6 25.2 37.8



#71
Bromoform
Concen: 0.240 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Tgt Ion:173 Resp: 887
Ion Ratio Lower Upper
173 100
175 1587.3 24.2 72.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

OK-03-111219

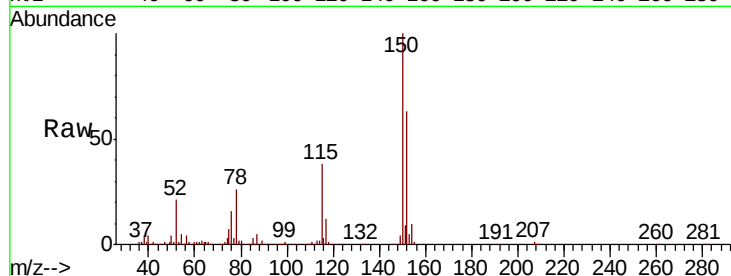
Tot Ion:152 Resp: 243583

Ion Ratio Lower Upper

152 100

115 60.0 29.4 88.2

150 159.0 0.0 345.8

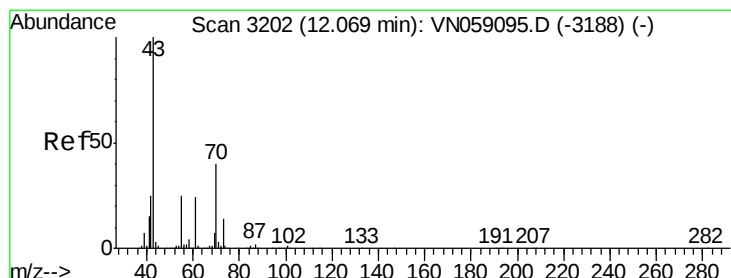
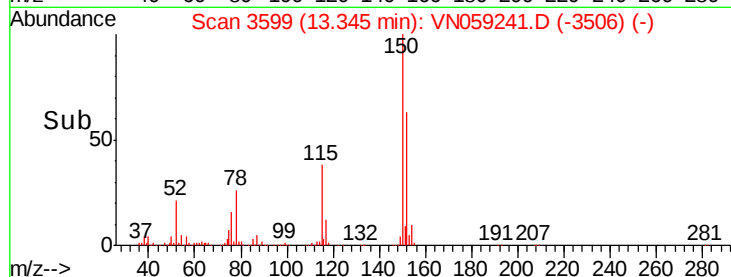
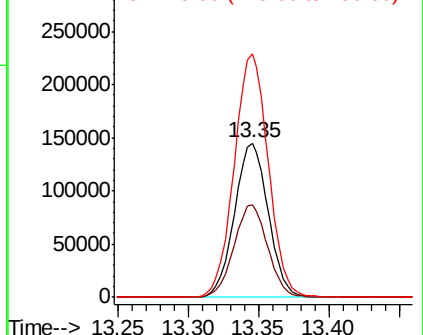


Abundance

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-ethyl acetate

Concen: 0.595 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Tgt Ion: 43 Resp: 4466

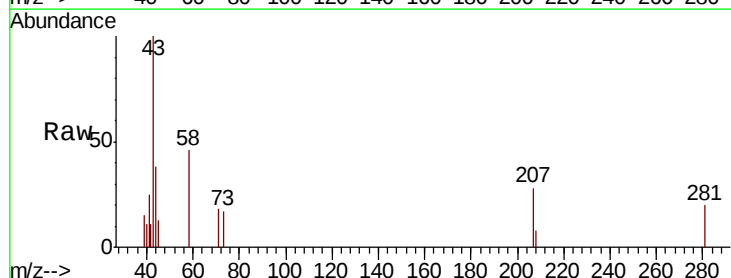
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.4#

55 2.9 20.4 30.6#

61 0.0 19.3 28.9#



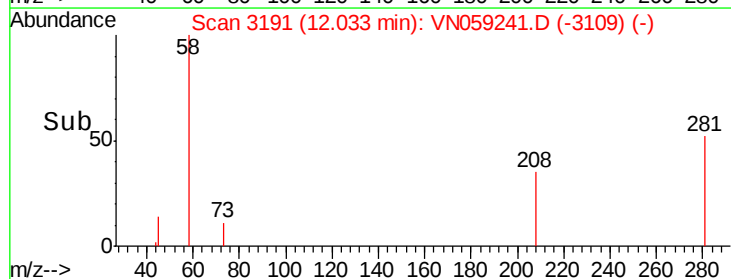
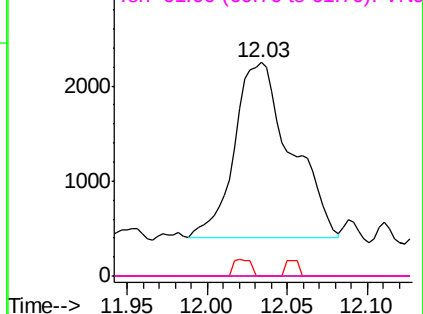
Abundance

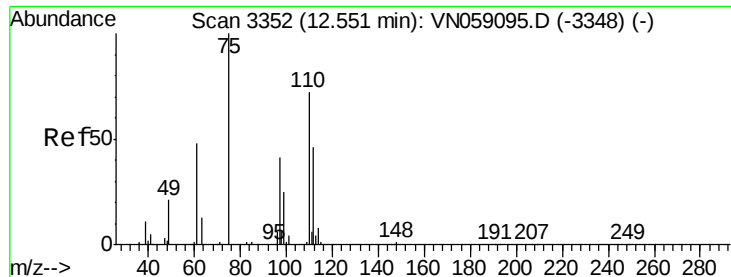
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.369 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059241.D

Acq: 14 Nov 2019 17:56

Instrument :

MSVOA_N

ClientSampleId :

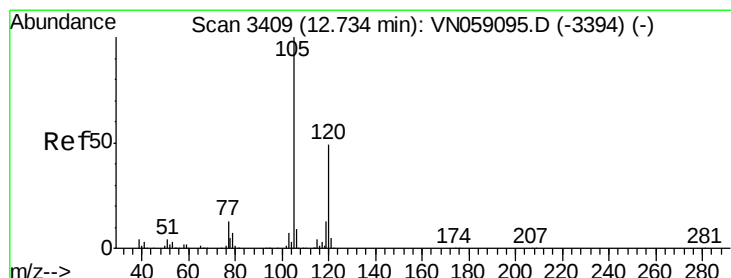
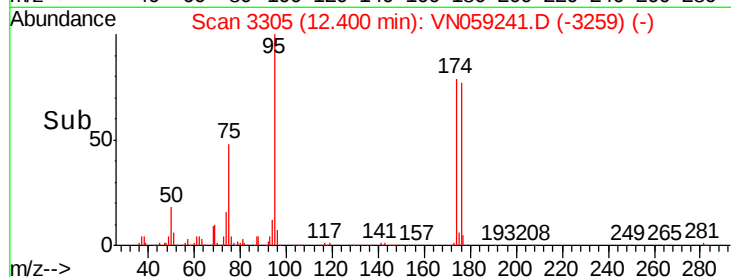
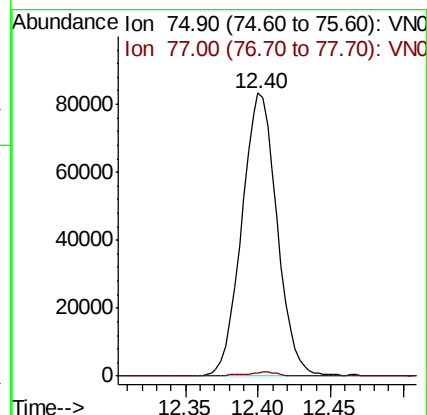
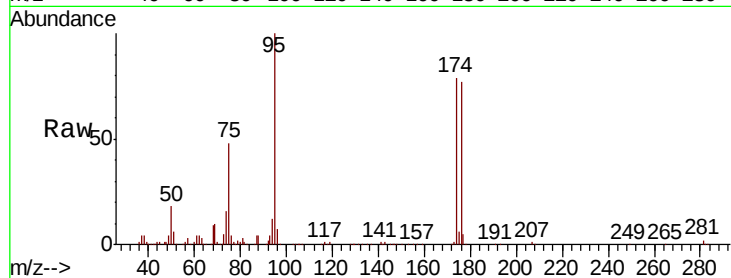
OK-03-111219

Tot Ion: 75 Resp: 140683

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.328 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN059241.D

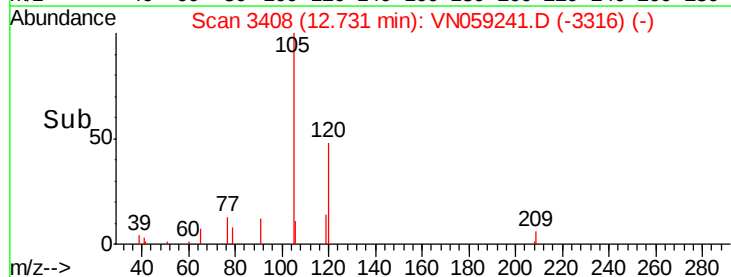
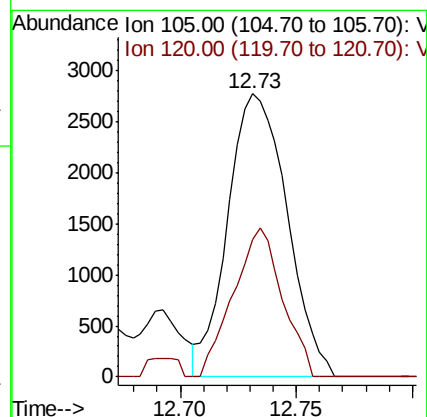
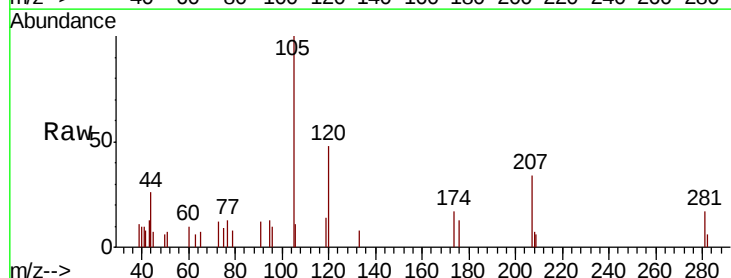
Acq: 14 Nov 2019 17:56

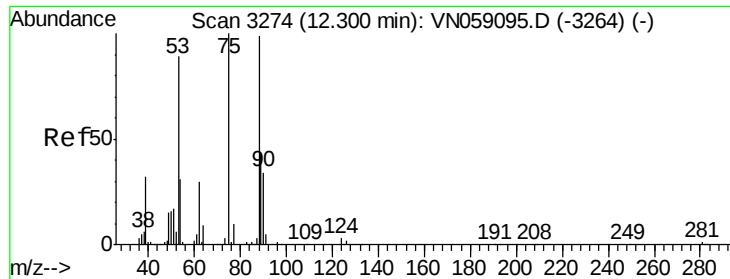
Tgt Ion: 105 Resp: 4920

Ion Ratio Lower Upper

105 100

120 43.6 24.0 72.0

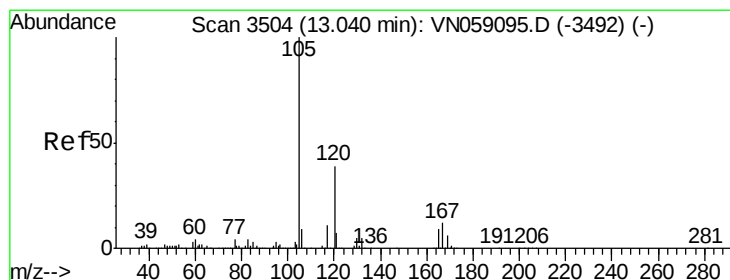
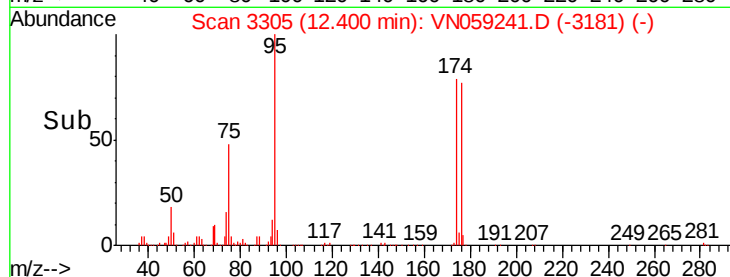
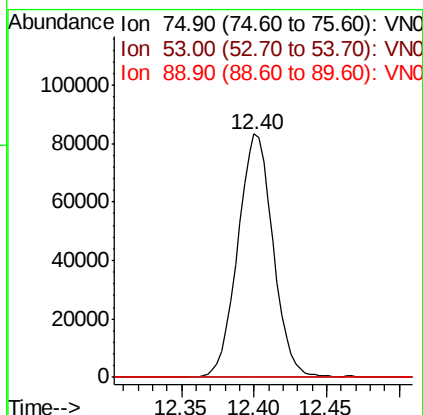
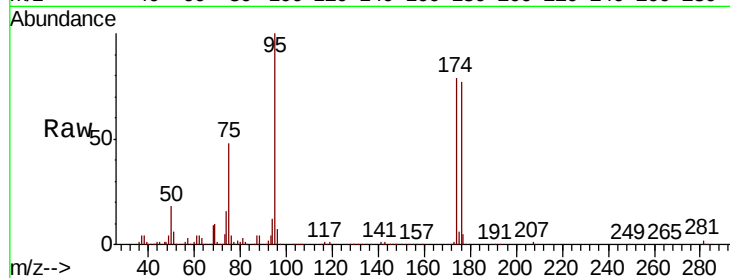




#81
trans-1,4-Dichloro-2-butene
Concen: 67.005 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

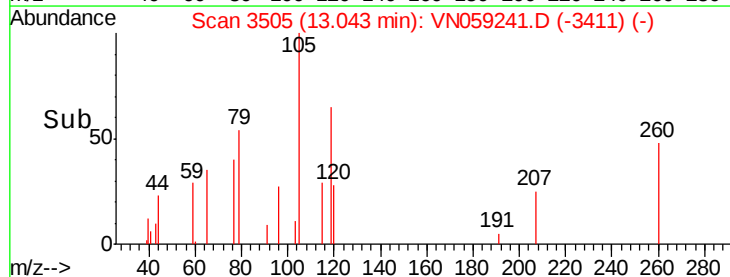
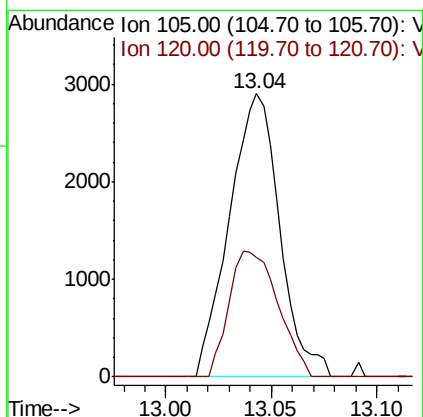
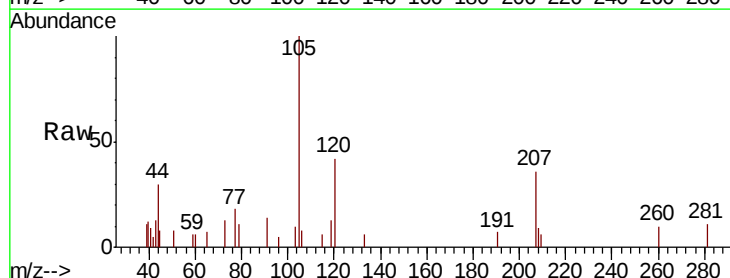
Instrument :
MSVOA_N
ClientSampled :
OK-03-111219

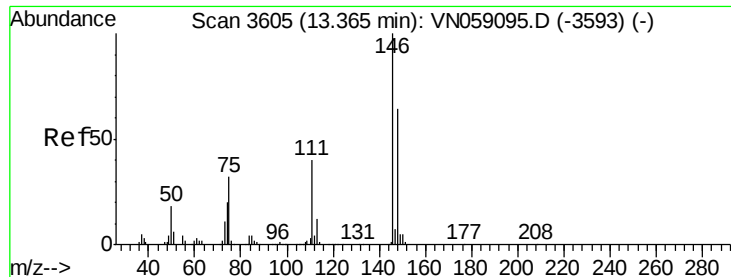
Tot Ion: 75 Resp: 140683
Ion Ratio Lower Upper
75 100
53 0.0 72.2 108.2#
89 0.0 35.8 53.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.331 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Tgt Ion: 105 Resp: 4806
Ion Ratio Lower Upper
105 100
120 43.2 22.8 68.4

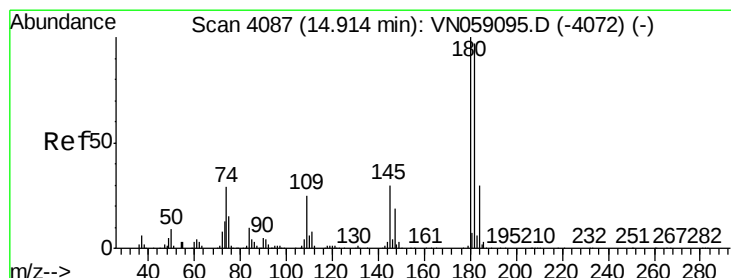
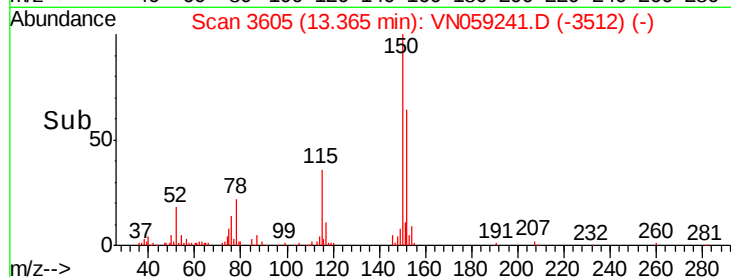
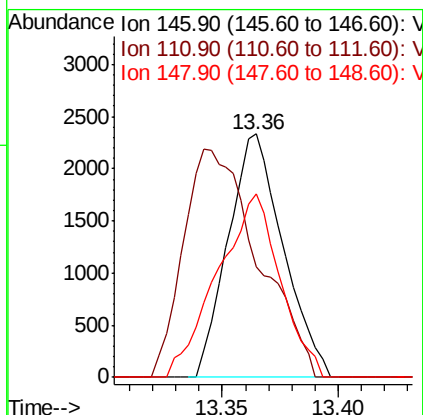
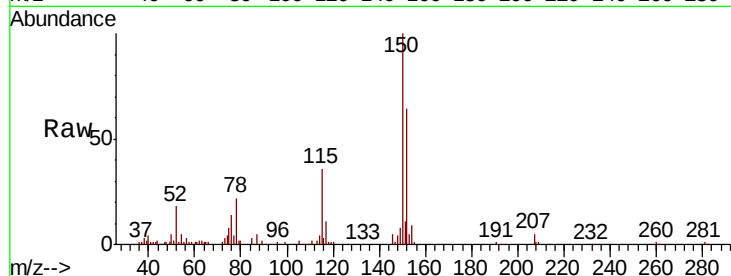




#88
 1,4-Dichlorobenzene
 Concen: 0.503 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN059241.D
 Acq: 14 Nov 2019 17:56

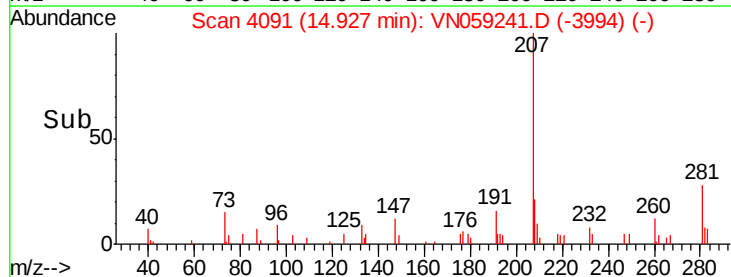
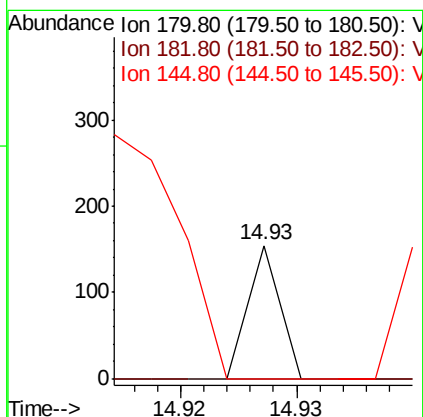
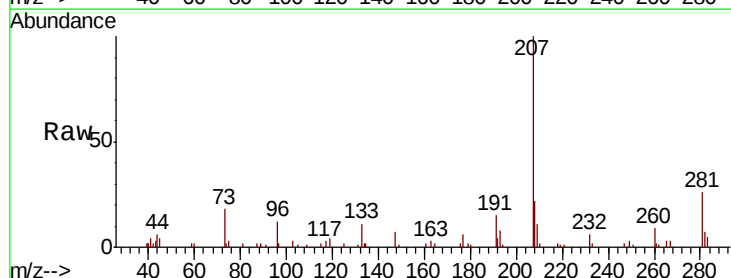
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-111219

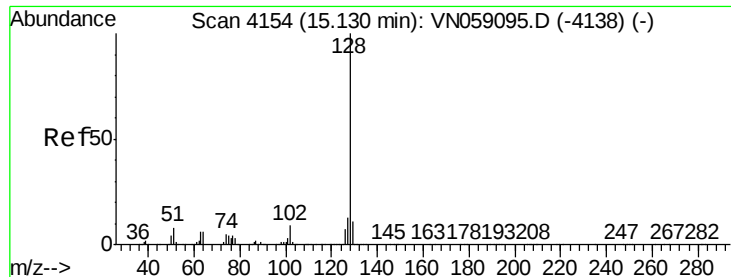
Tot Ion:146 Resp: 3835
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.3 60.9#
 148 85.9 31.9 95.7



#93
 1,2,4-Trichlorobenzene
 Concen: 3.053 ug/l
 RT: 14.93 min Scan# 4091
 Delta R.T. 0.01 min
 Lab File: VN059241.D
 Acq: 14 Nov 2019 17:56

Tgt Ion:180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.1 144.3#
 145 1780.0 15.1 45.3#





#95
Naphthalene
Concen: 3.994 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059241.D
Acq: 14 Nov 2019 17:56

Instrument :
MSVOA_N
ClientSampleId :
OK-03-111219

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.3	8.6	12.8

