

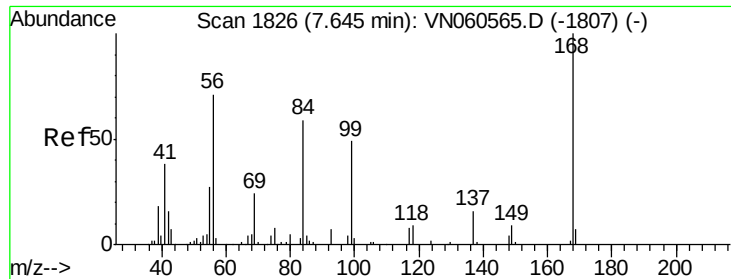
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060845.D
 Acq On : 6 Apr 2020 12:56
 Operator : JC/MD
 Sample : L2117-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-040220

Quant Time: Apr 07 07:03:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	210265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	352352	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	328309	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148668	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	136195	47.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.36%	
35) Dibromofluoromethane	7.57	113	104025	48.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.66%	
50) Toluene-d8	10.08	98	433222	49.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.56%	
62) 4-Bromofluorobenzene	12.40	95	161075	50.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.00%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	10362	10.135	ug/l	98
18) Methyl Acetate	4.29	43	1768	0.614	ug/l #	54
20) Methylene Chloride	4.52	84	6700	2.664	ug/l	97
25) 2-Butanone	6.81	43	2025	1.224	ug/l	98
29) Tetrahydrofuran	7.19	42	315	0.269	ug/l #	35
31) Cyclohexane	7.64	56	4429	0.953	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16263	4.767	ug/l #	50
38) Carbon Tetrachloride	7.64	117	20136	6.585	ug/l #	17
43) Isopropyl Acetate	8.14	43	58231	9.578	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1028	0.378	ug/l #	43
48) Methyl methacrylate	9.16	41	3042	1.124	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5165	1.493	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	24511	5.697	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3725	0.897	ug/l #	42
59) 2-Hexanone	10.75	43	58252	23.373	ug/l #	52
74) N-amyl acetate	12.02	43	2558	0.496	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	81999	25.561	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	81999	65.649	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	658	0.236	ug/l #	83
95) Naphthalene	15.13	128	11855	1.416	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.31	180	650	0.237	ug/l #	81

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Instrument :

MSVOA_N

ClientSampleId :

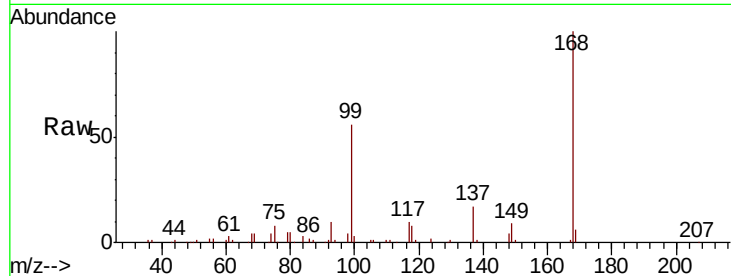
OK-03-040220

Tot Ion:168 Resp: 210265

Ion Ratio Lower Upper

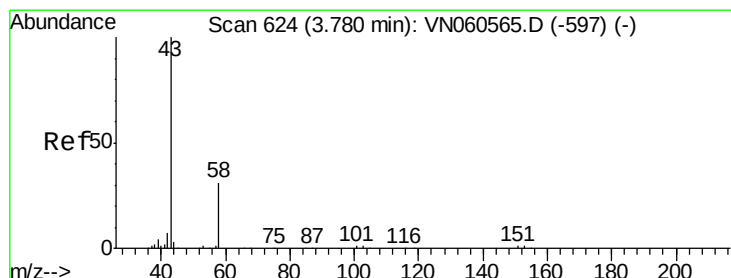
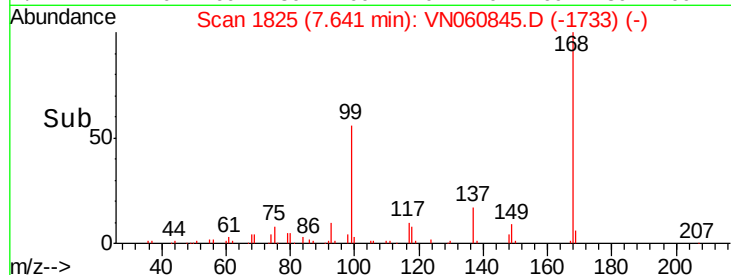
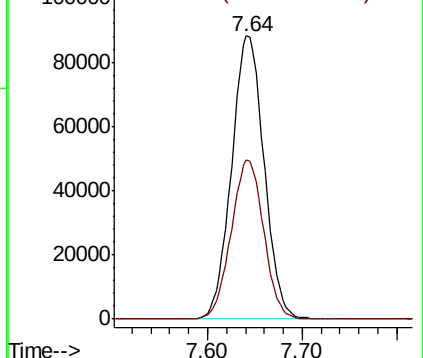
168 100

99 56.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060845.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060845.D (-1733) (-)



#16

Acetone

Concen: 10.135 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060845.D

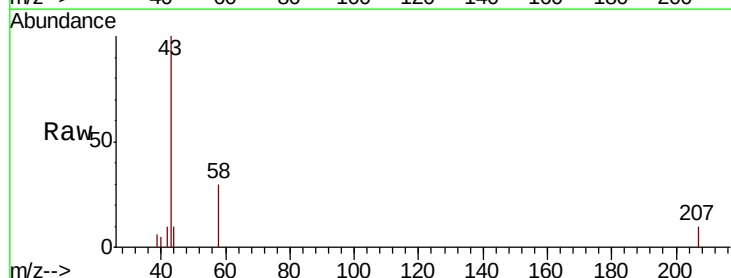
Acq: 6 Apr 2020 12:56

Tgt Ion: 43 Resp: 10362

Ion Ratio Lower Upper

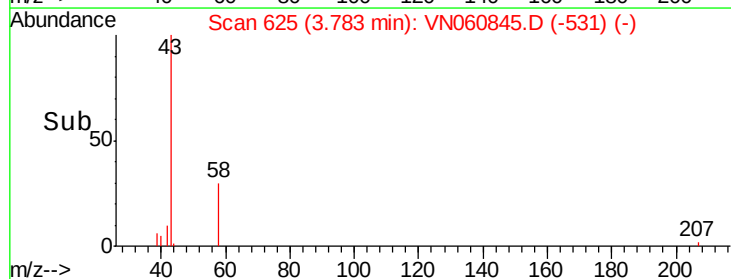
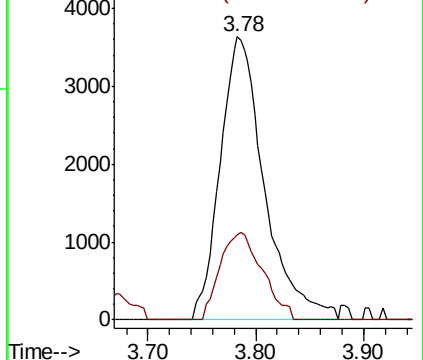
43 100

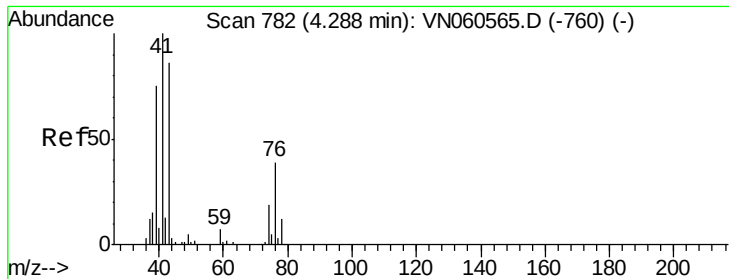
58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060845.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060845.D (-531) (-)

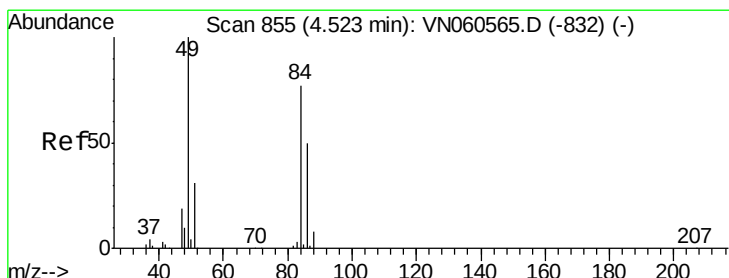
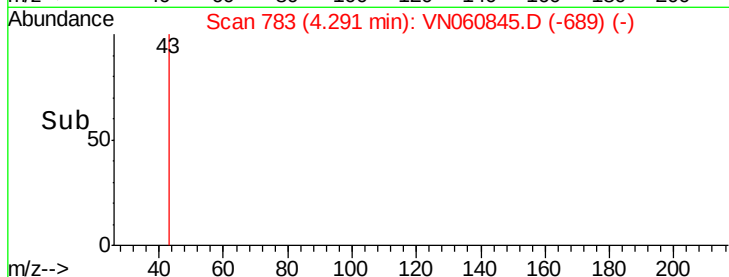
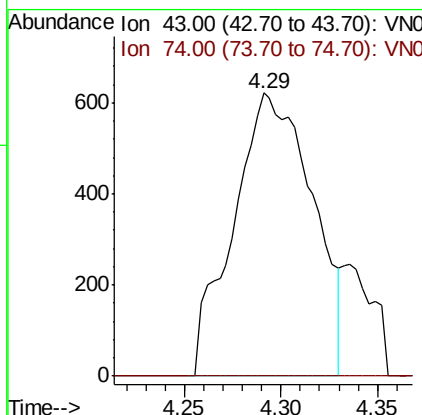
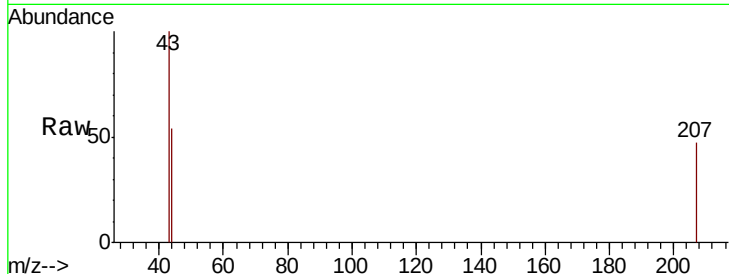




#18
Methyl Acetate
Concen: 0.614 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

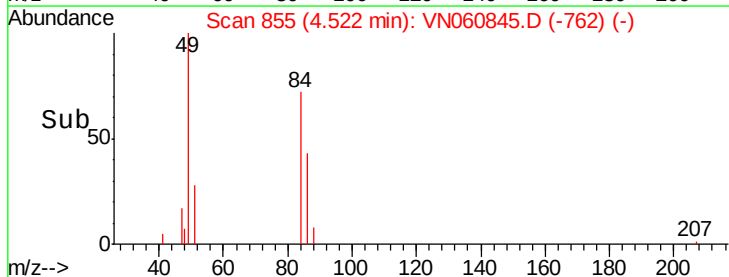
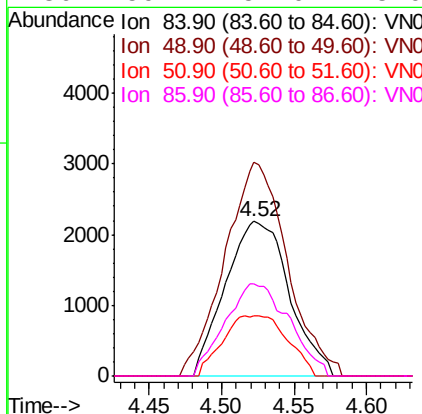
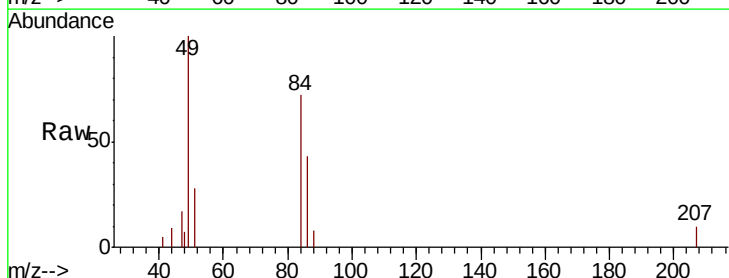
Instrument :
MSVOA_N
ClientSampleId :
OK-03-040220

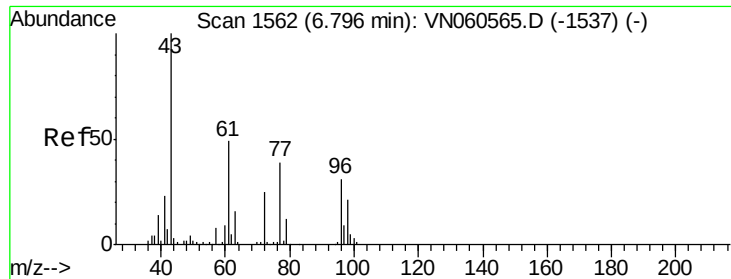
Tot Ion: 43 Resp: 1768
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.664 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

Tgt Ion: 84 Resp: 6700
Ion Ratio Lower Upper
84 100
49 130.4 103.3 154.9
51 38.8 31.6 47.4
86 59.7 52.0 78.0

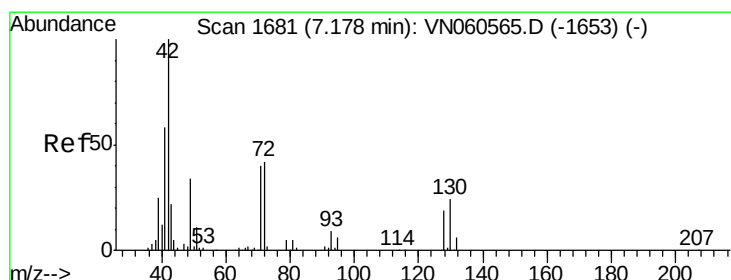
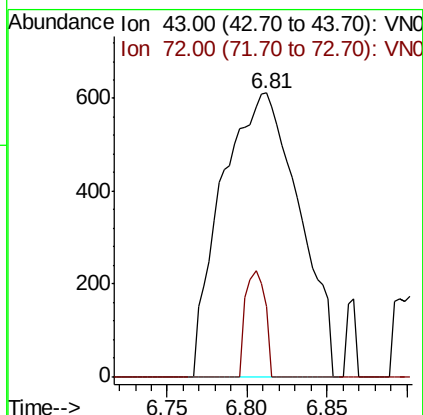
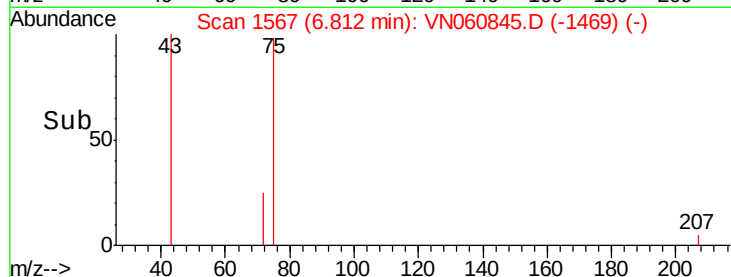
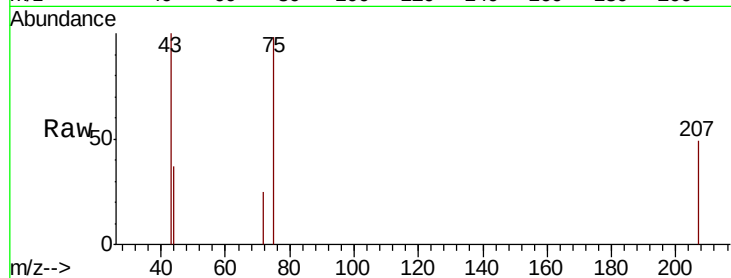




#25
2-Butanone
Concen: 1.224 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.02 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

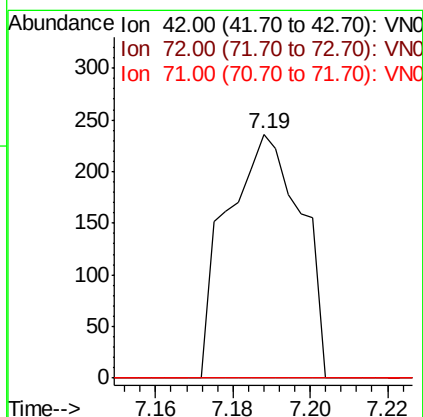
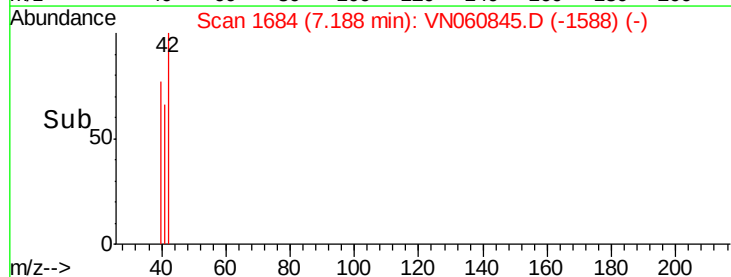
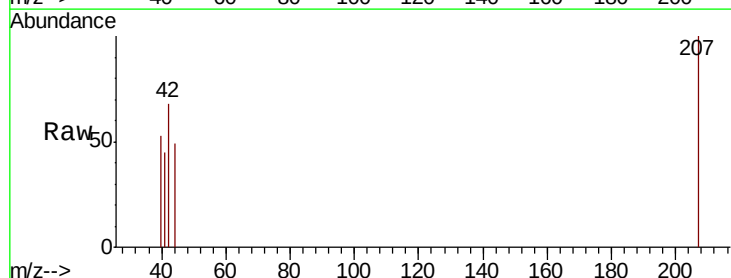
Instrument :
MSVOA_N
ClientSampleId :
OK-03-040220

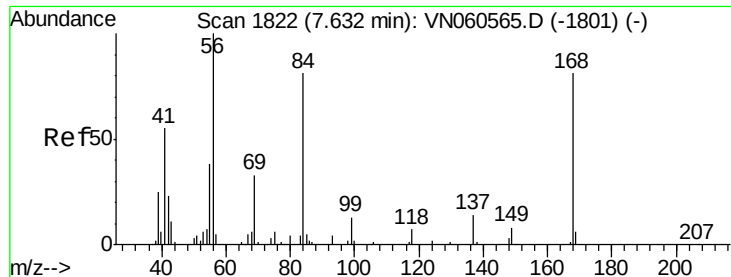
Tot Ion: 43 Resp: 2025
Ion Ratio Lower Upper
43 100
72 24.5 20.4 30.6



#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

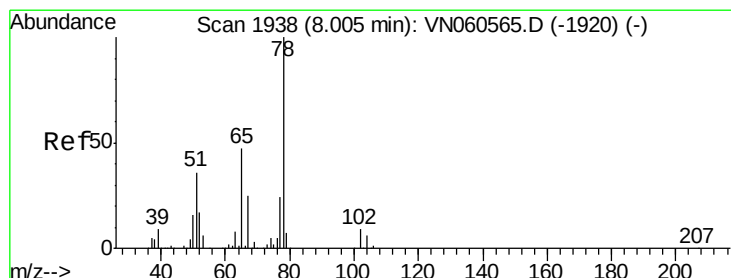
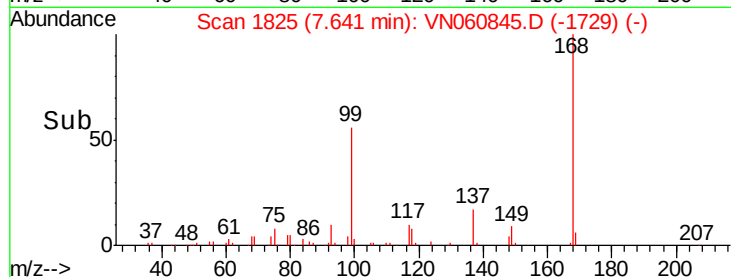
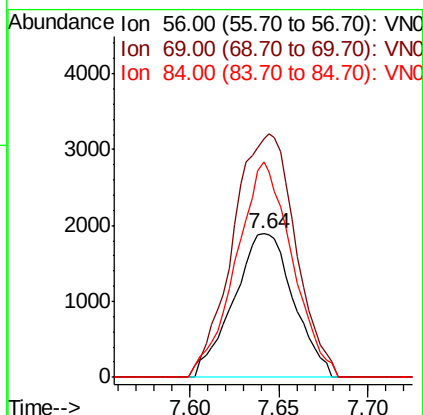
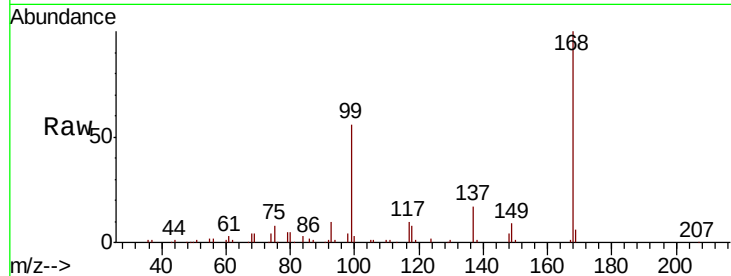




#31
Cyclohexane
Concen: 0.953 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

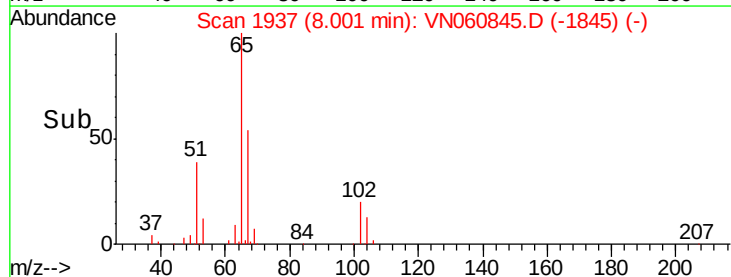
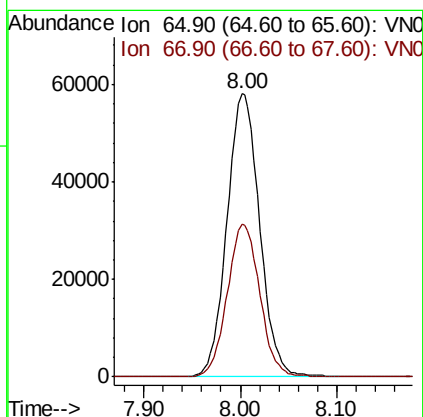
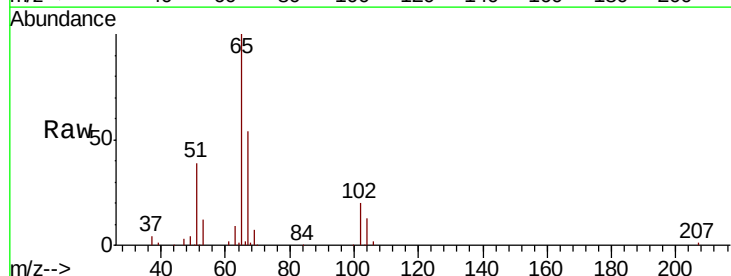
Instrument :
MSVOA_N
ClientSampleId :
OK-03-040220

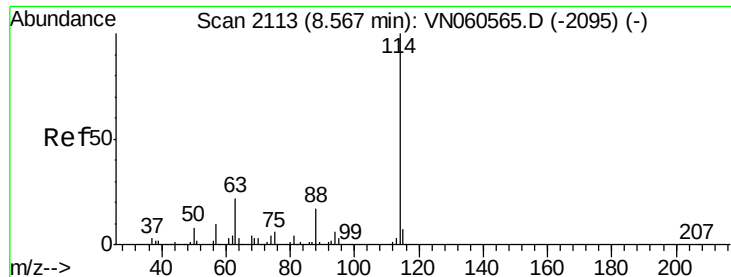
Tot Ion: 56 Resp: 4429
Ion Ratio Lower Upper
56 100
69 166.3 26.6 40.0#
84 150.7 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 47.184 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

Tgt Ion: 65 Resp: 136195
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.6

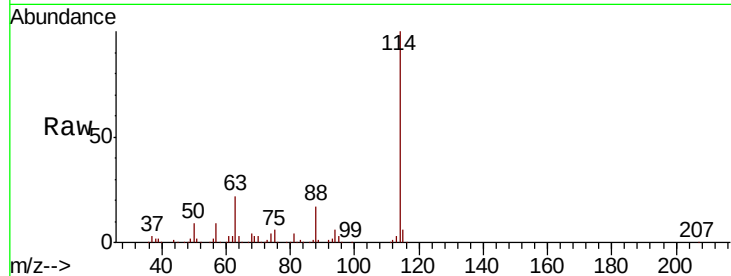




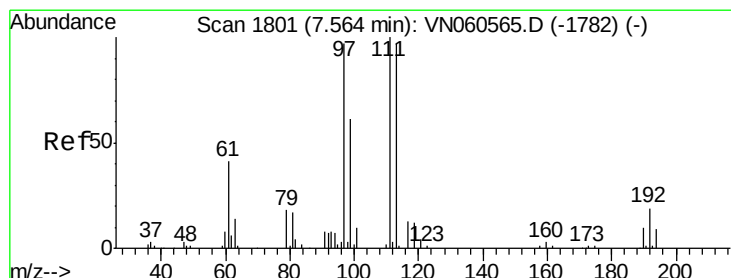
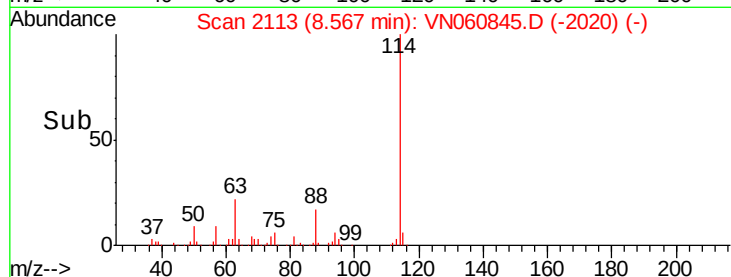
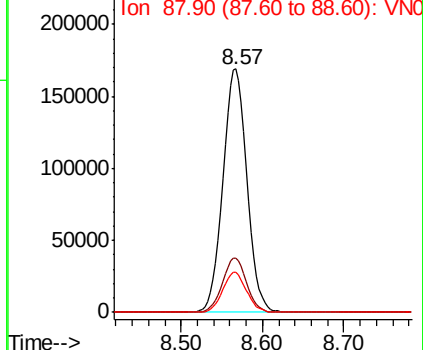
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-040220

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.8
88	16.5	0.0	33.0

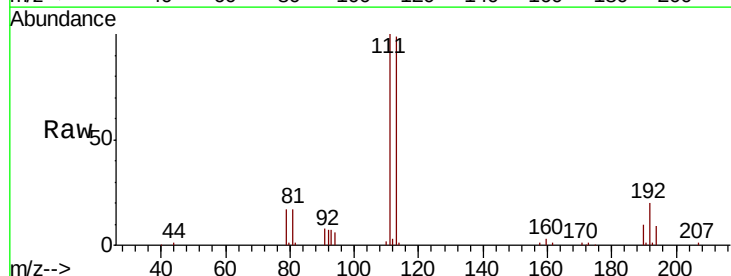


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

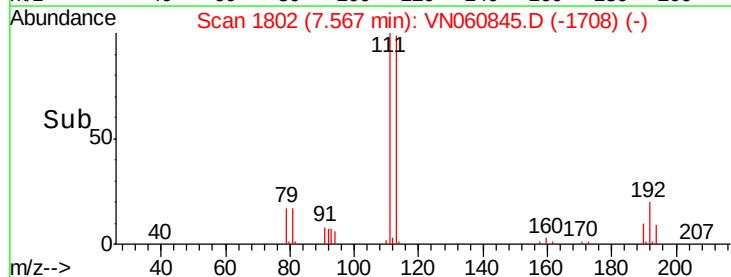
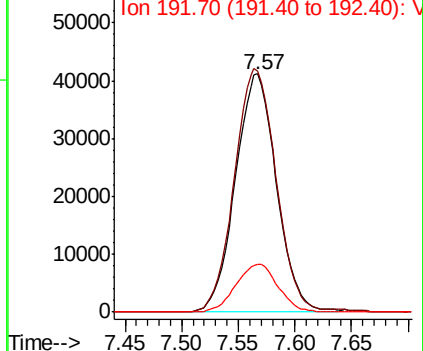


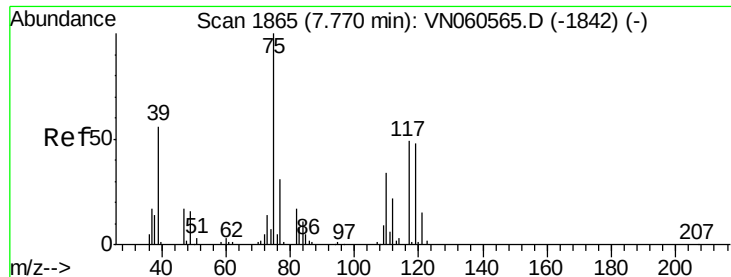
#35
 Dibromofluoromethane
 Concen: 48.825 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.9	124.3
192	20.4	15.8	23.8



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

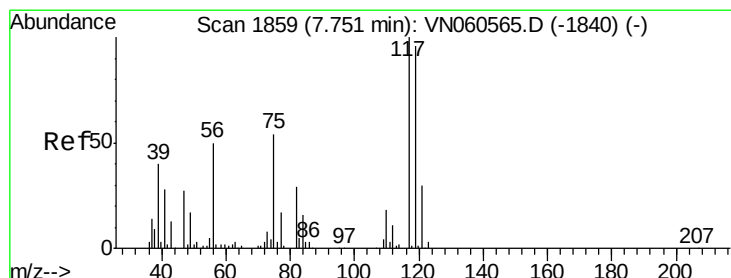
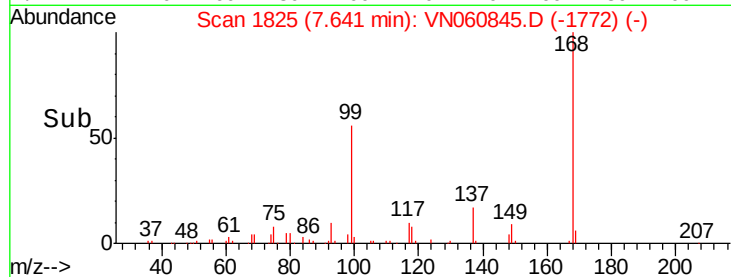
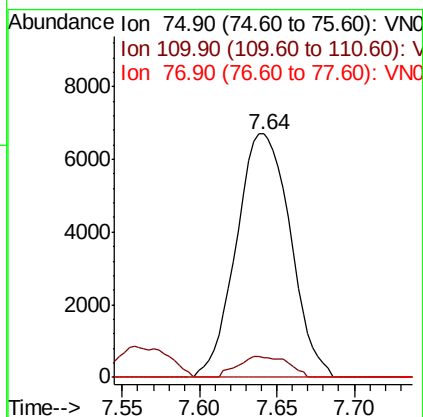
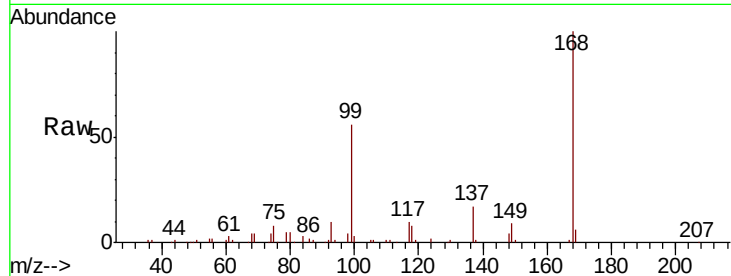




#36
 1,1-Dichloropropene
 Concen: 4.767 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

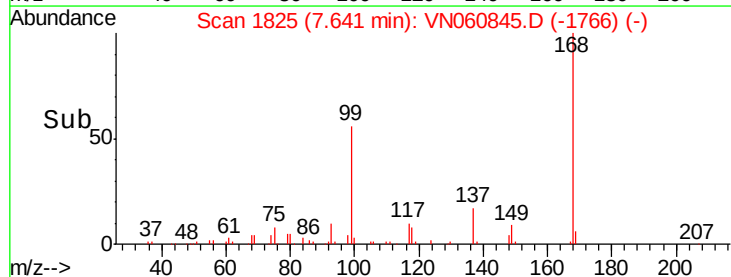
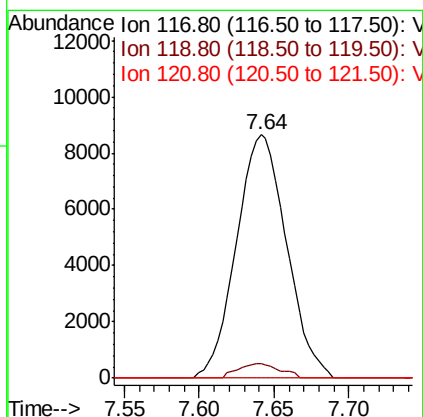
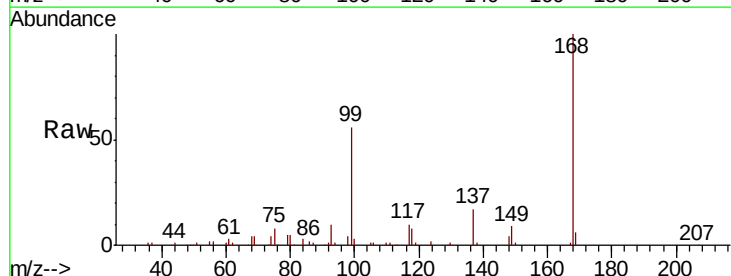
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 ClientSampleId :
 OK-03-040220

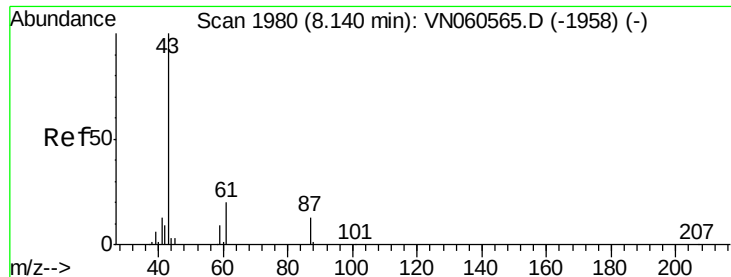
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.585 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 9.578 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Instrument :

MSVOA_N

ClientSampleId :

OK-03-040220

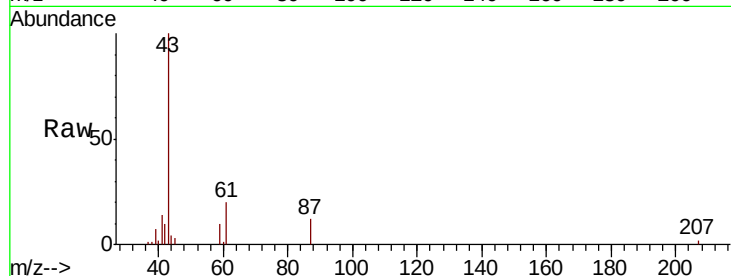
Tot Ion: 43 Resp: 58231

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

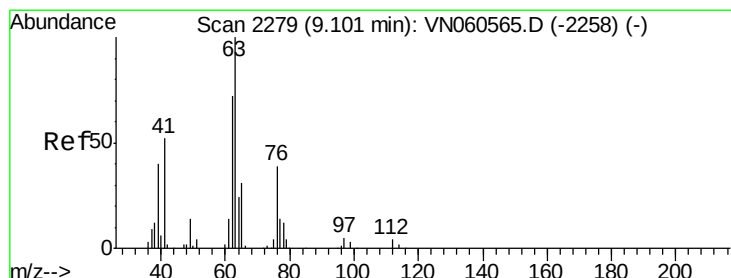
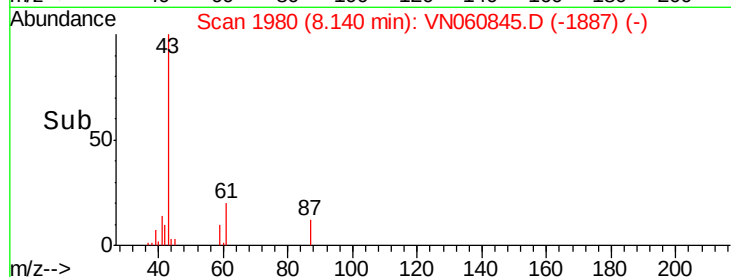
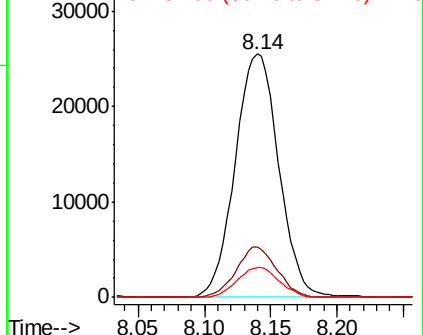
87 11.7 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060845.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060845.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060845.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.378 ug/l

RT: 9.24 min Scan# 2323

Delta R.T. 0.14 min

Lab File: VN060845.D

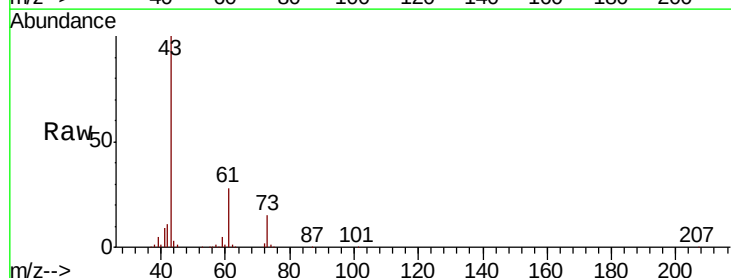
Acq: 6 Apr 2020 12:56

Tgt Ion: 63 Resp: 1028

Ion Ratio Lower Upper

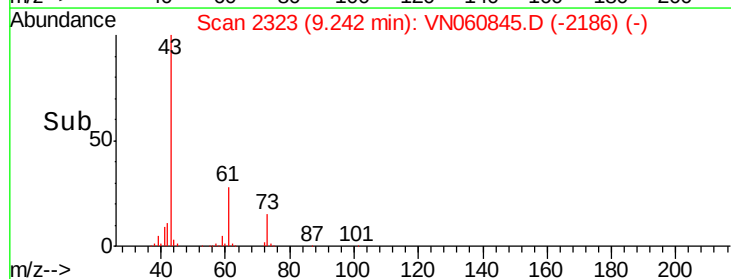
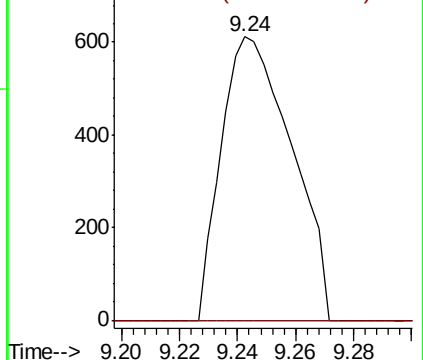
63 100

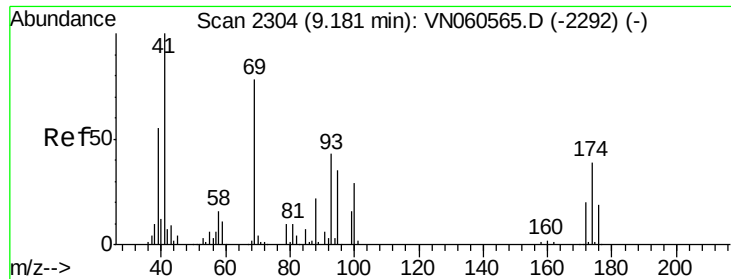
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060845.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060845.D (-2186) (-)

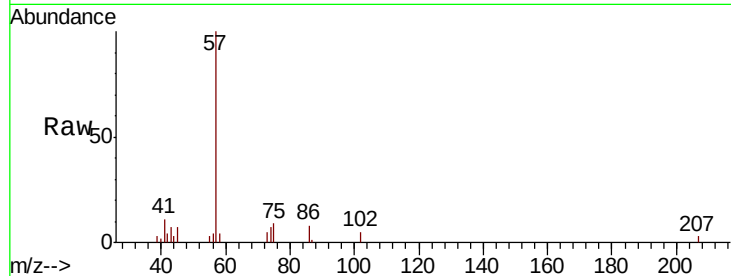




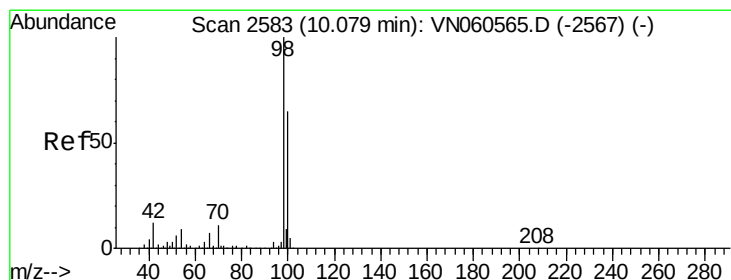
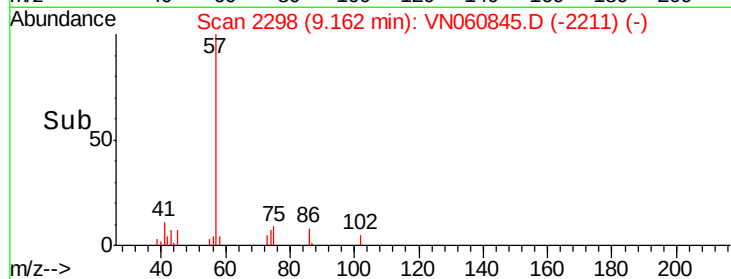
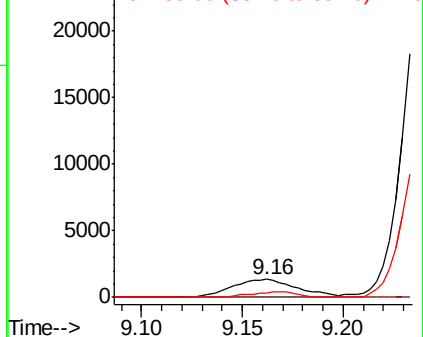
#48
Methvl methacrylate
Concen: 1.124 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

Instrument :
MSVOA_N
ClientSampleId :
OK-03-040220

Tot Ion: 41 Resp: 3042
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

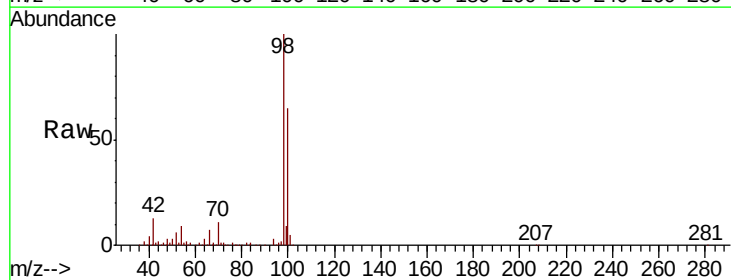


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

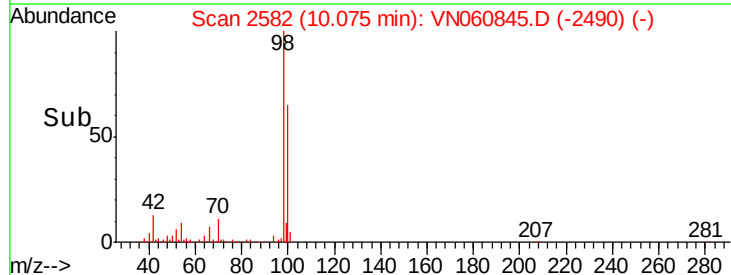
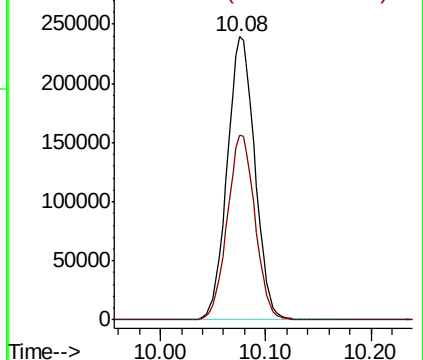


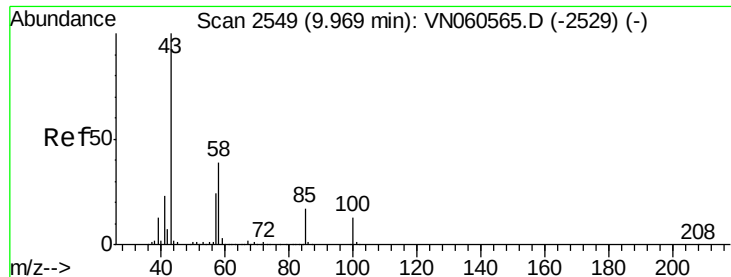
#50
Toluene-d8
Concen: 49.781 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

Tgt Ion: 98 Resp: 433222
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

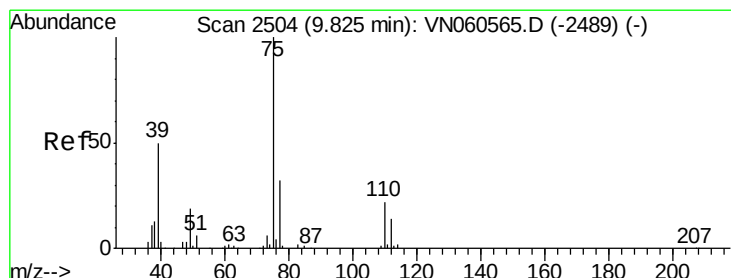
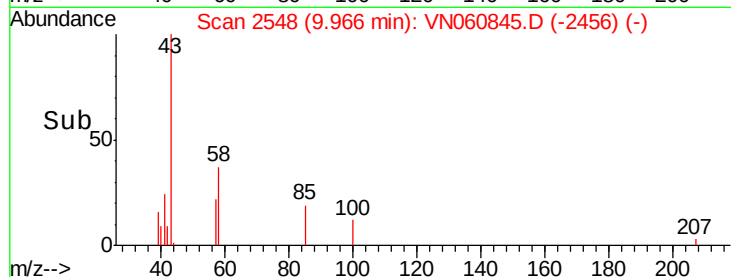
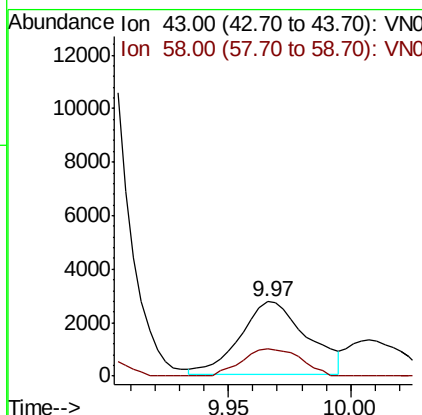
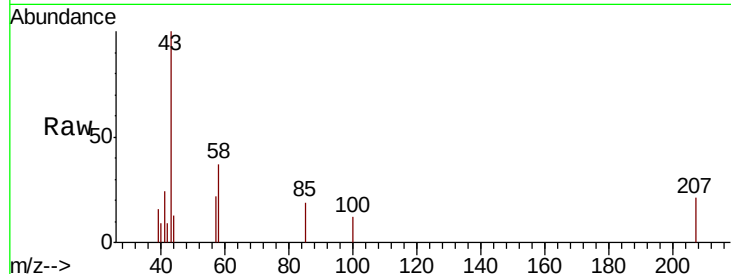




#51
 4-Methyl-2-Pentanone
 Concen: 1.493 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

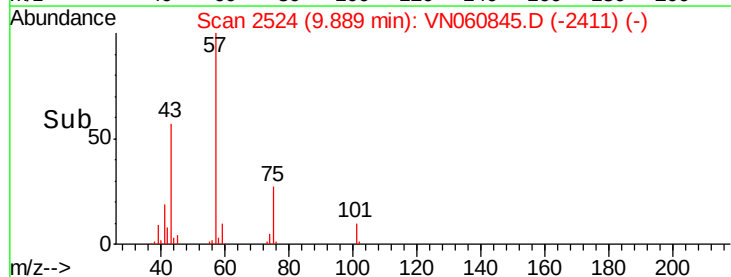
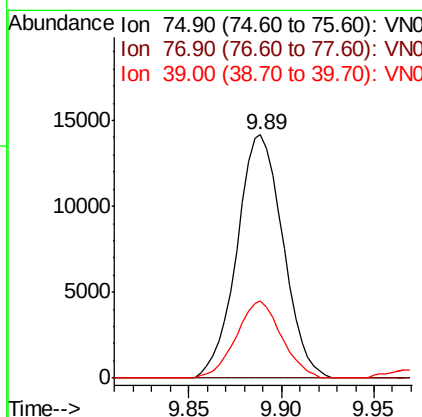
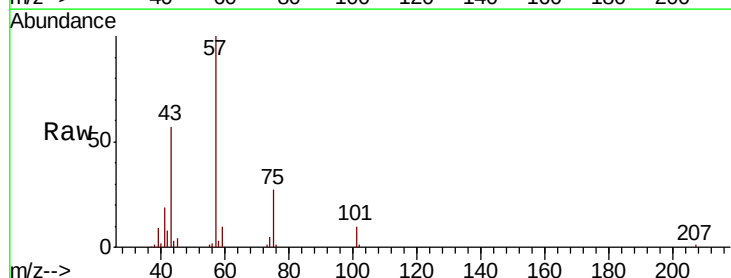
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-040220

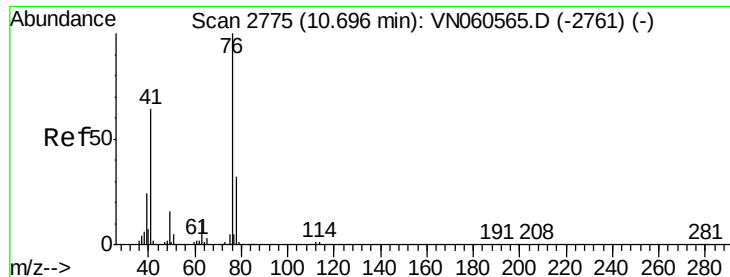
Tot Ion: 43 Resp: 5165
 Ion Ratio Lower Upper
 43 100
 58 33.3 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 5.697 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

Tgt Ion: 75 Resp: 24511
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 31.5 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.897 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Instrument :

MSVOA_N

ClientSampleId :

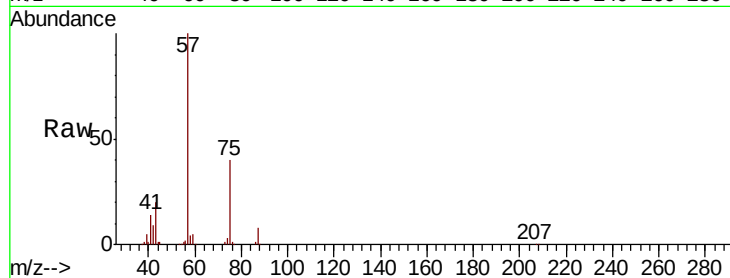
OK-03-040220

Tot Ion: 76 Resp: 3725

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

2500

2000

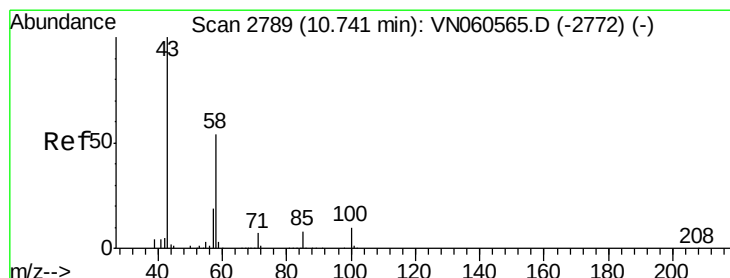
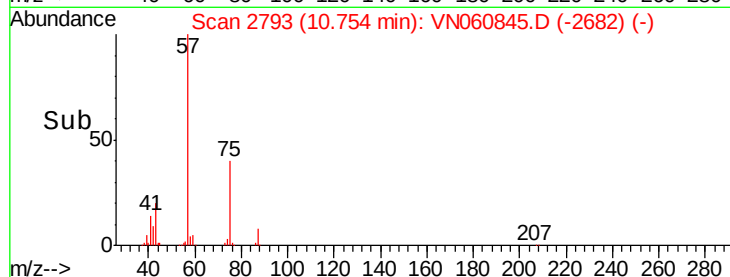
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 23.373 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060845.D

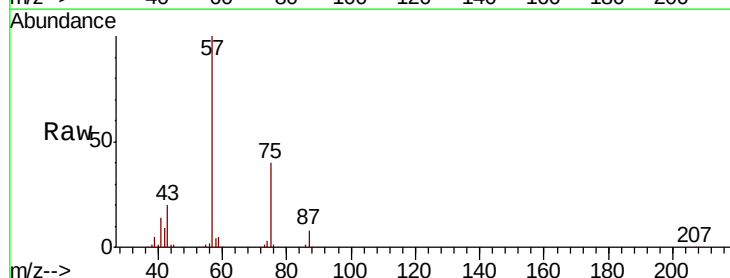
Acq: 6 Apr 2020 12:56

Tgt Ion: 43 Resp: 58252

Ion Ratio Lower Upper

43 100

58 19.3 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

40000

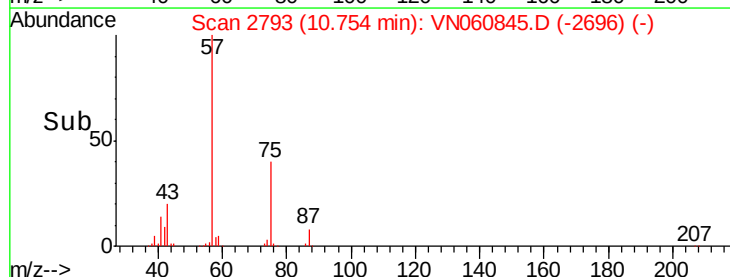
30000

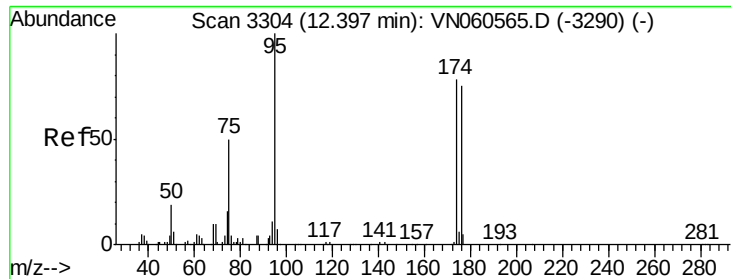
20000

10000

0

Time--> 10.70 10.75 10.80

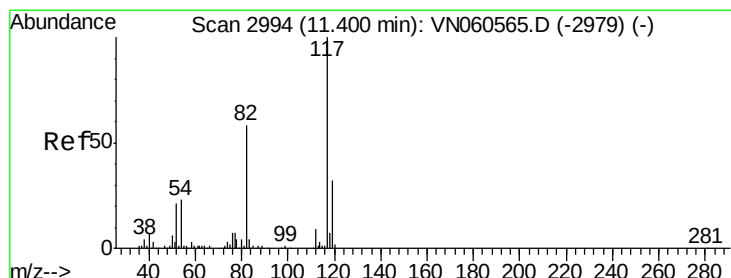
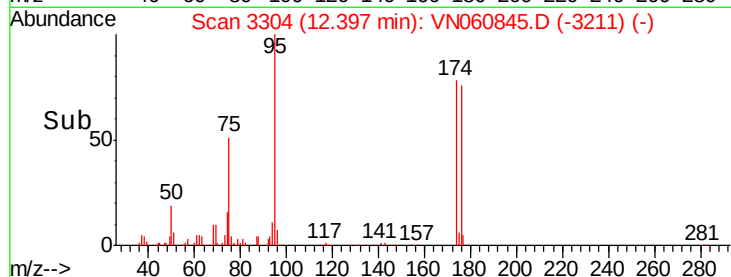
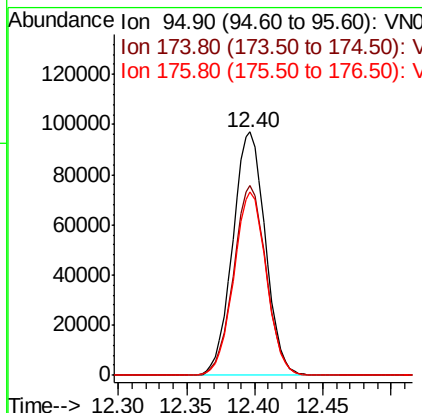
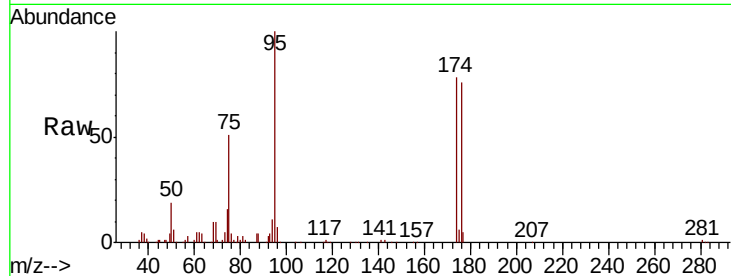




#62
4-Bromofluorobenzene
Concen: 50.504 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

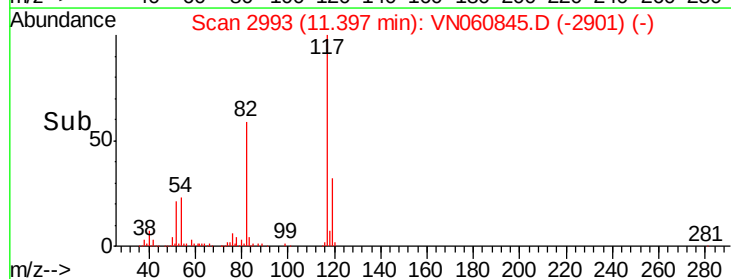
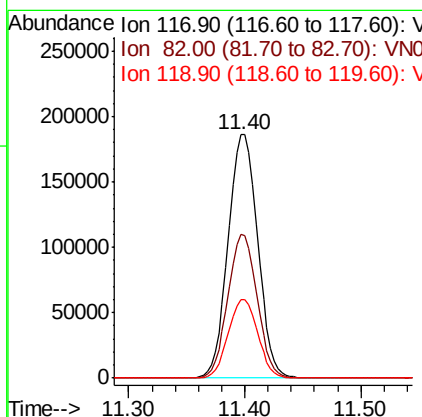
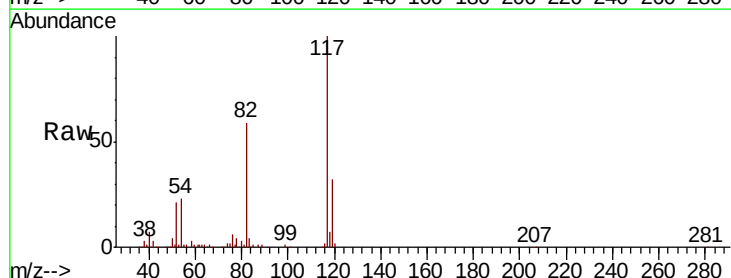
Instrument :
MSVOA_N
ClientSampleId :
OK-03-040220

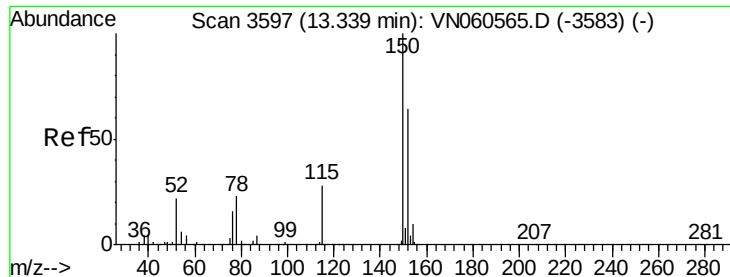
Tot Ion: 95 Resp: 161075
Ion Ratio Lower Upper
95 100
174 77.9 0.0 157.6
176 75.2 0.0 150.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060845.D
Acq: 6 Apr 2020 12:56

Tgt Ion: 117 Resp: 328309
Ion Ratio Lower Upper
117 100
82 59.0 46.7 70.1
119 32.1 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Instrument :

MSVOA_N

ClientSampleId :

OK-03-040220

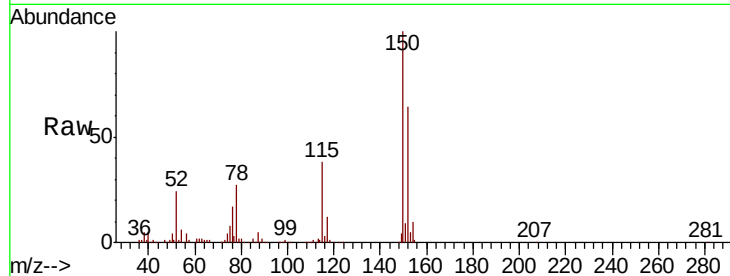
Tot Ion:152 Resp: 148668

Ion Ratio Lower Upper

152 100

115 59.2 30.2 90.6

150 156.9 0.0 350.2

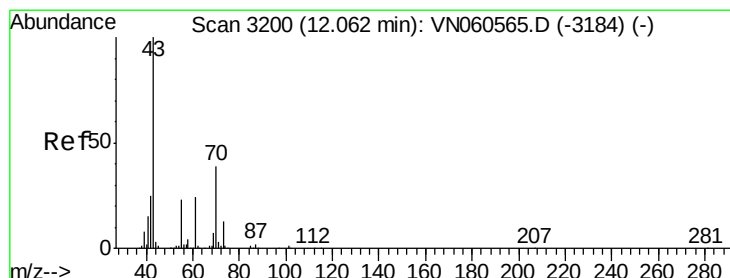
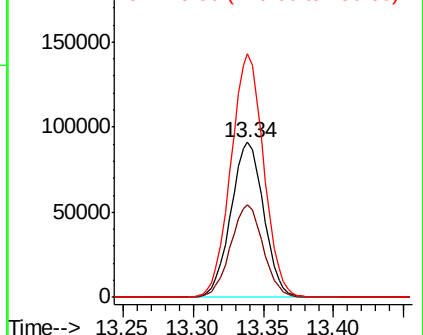
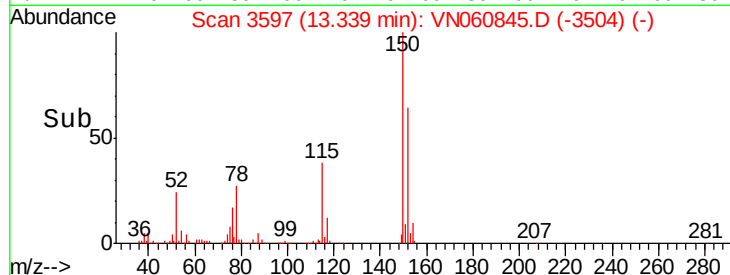


Abundance

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: 0.496 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.05 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Tgt Ion: 43 Resp: 2558

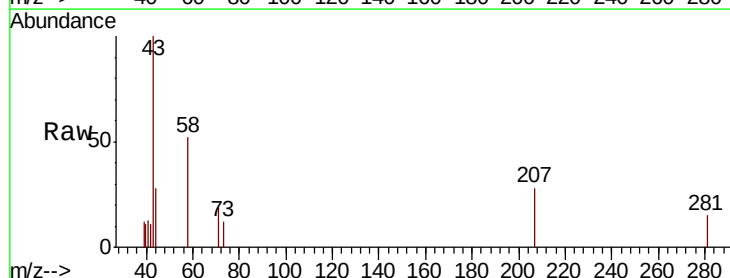
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#



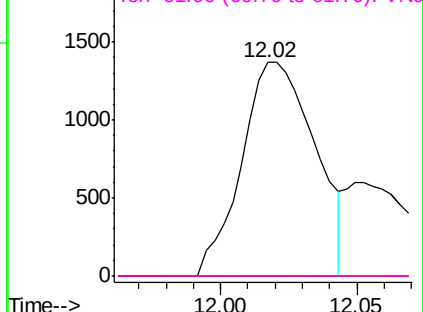
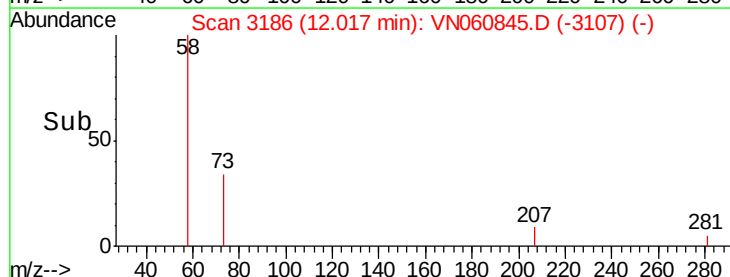
Abundance

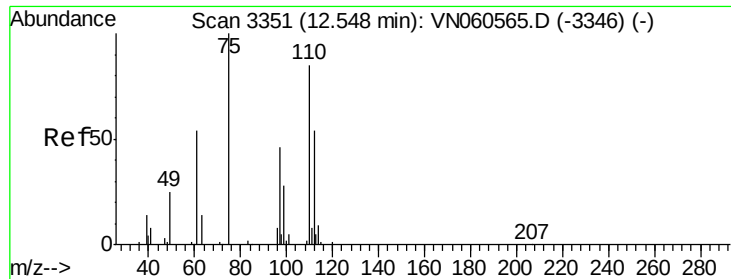
Ion 43.00 (42.70 to 43.70): V

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: 25.561 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Instrument :

MSVOA_N

ClientSampled :

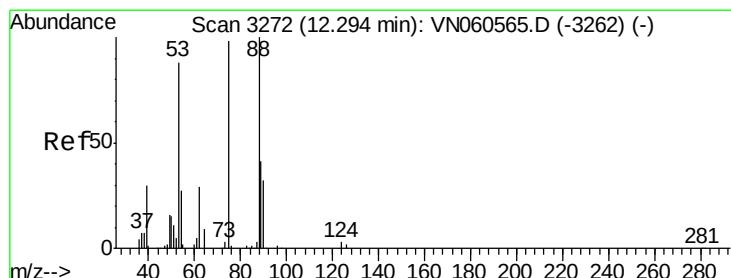
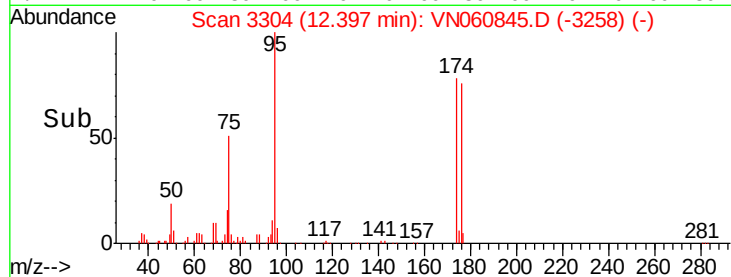
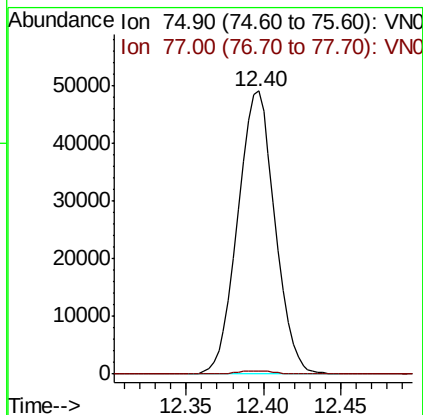
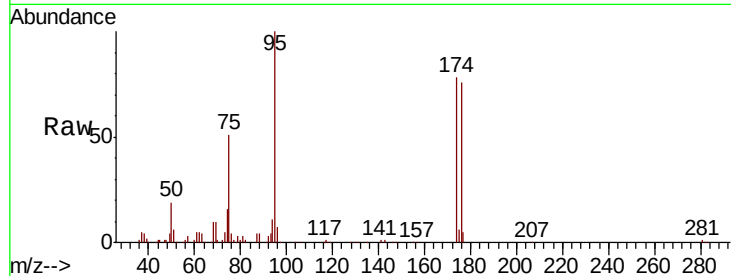
OK-03-040220

Tot Ion: 75 Resp: 81999

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.649 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

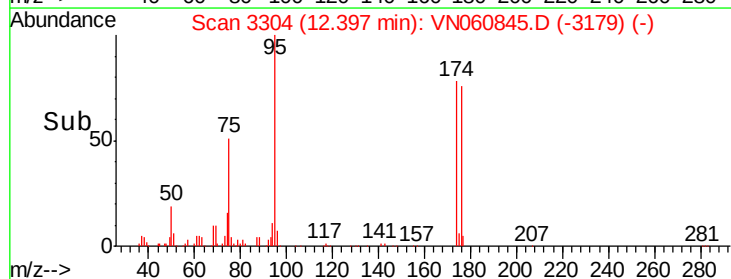
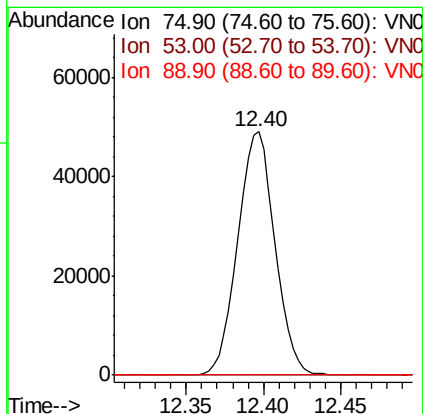
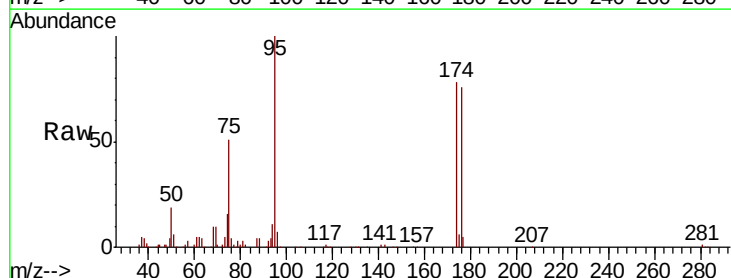
Tgt Ion: 75 Resp: 81999

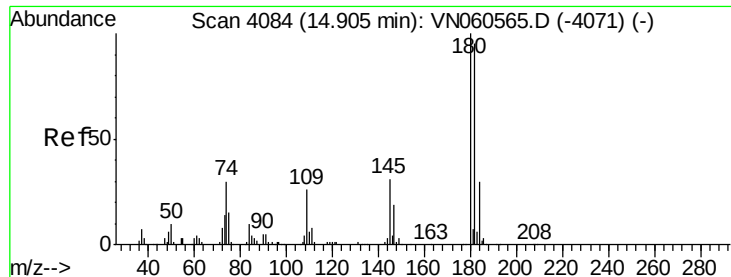
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.236 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

Instrument :

MSVOA_N

ClientSampleId :

OK-03-040220

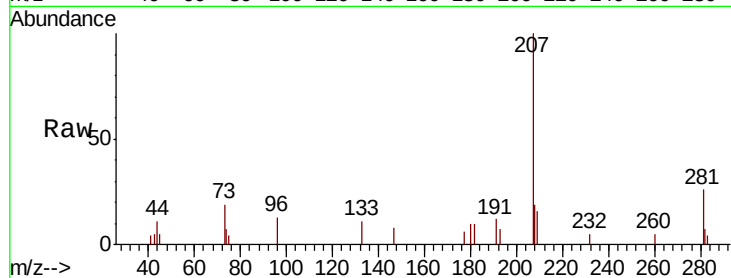
Tot Ion:180 Resp: 658

Ion Ratio Lower Upper

180 100

182 92.1 47.9 143.8

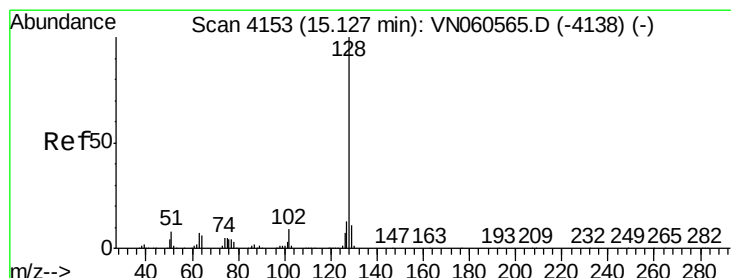
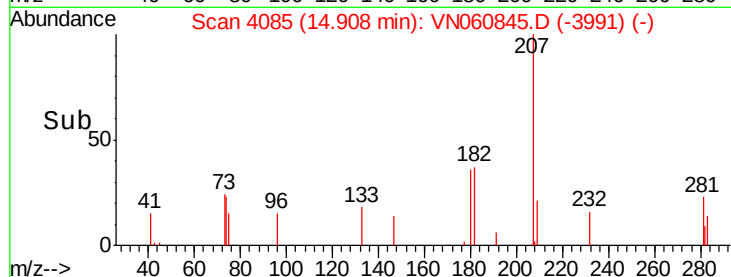
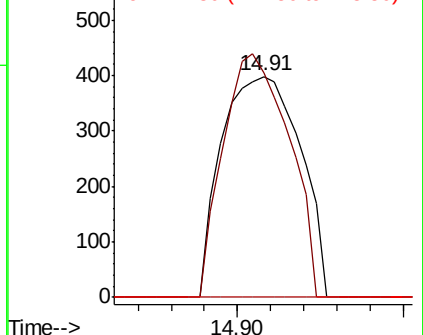
145 0.0 15.4 46.2#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.416 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060845.D

Acq: 6 Apr 2020 12:56

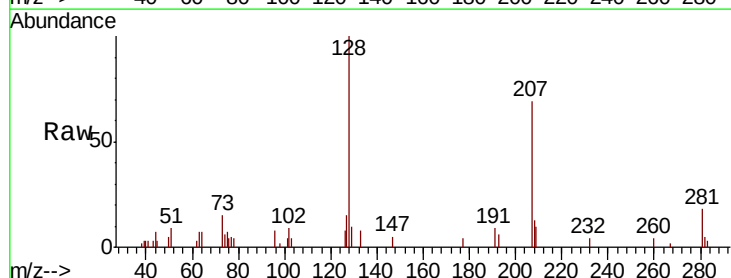
Tgt Ion:128 Resp: 11855

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

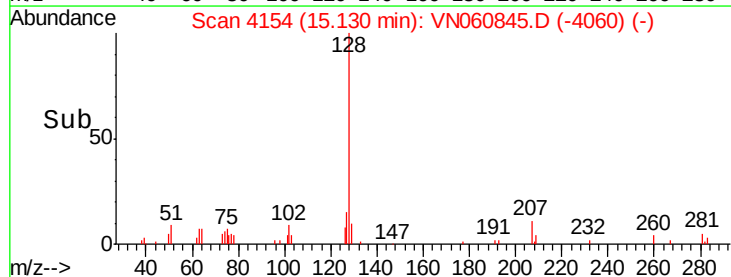
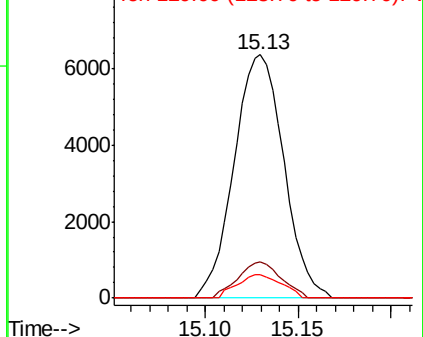
129 8.6 8.8 13.2#

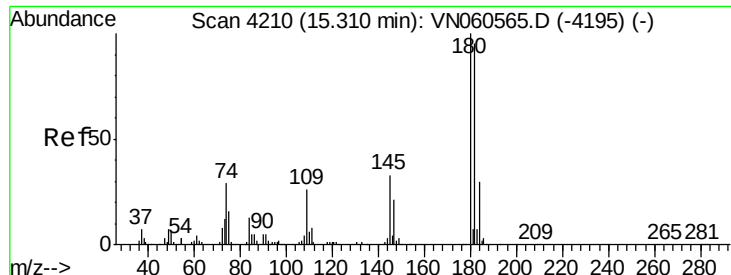


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.237 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060845.D
 Acq: 6 Apr 2020 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-040220

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.0	47.5	142.6
145	0.0	16.3	48.8#

