

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092220\
 Data File : VN063571.D
 Acq On : 23 Sep 2020 7:40
 Operator : JC/MD
 Sample : L3866-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-01-092120

Quant Time: Sep 23 08:39:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	200919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	389962	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	391506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159224	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	175626	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	7.55	113	124792	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	
50) Toluene-d8	10.06	98	498038	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	12.38	95	191793	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	

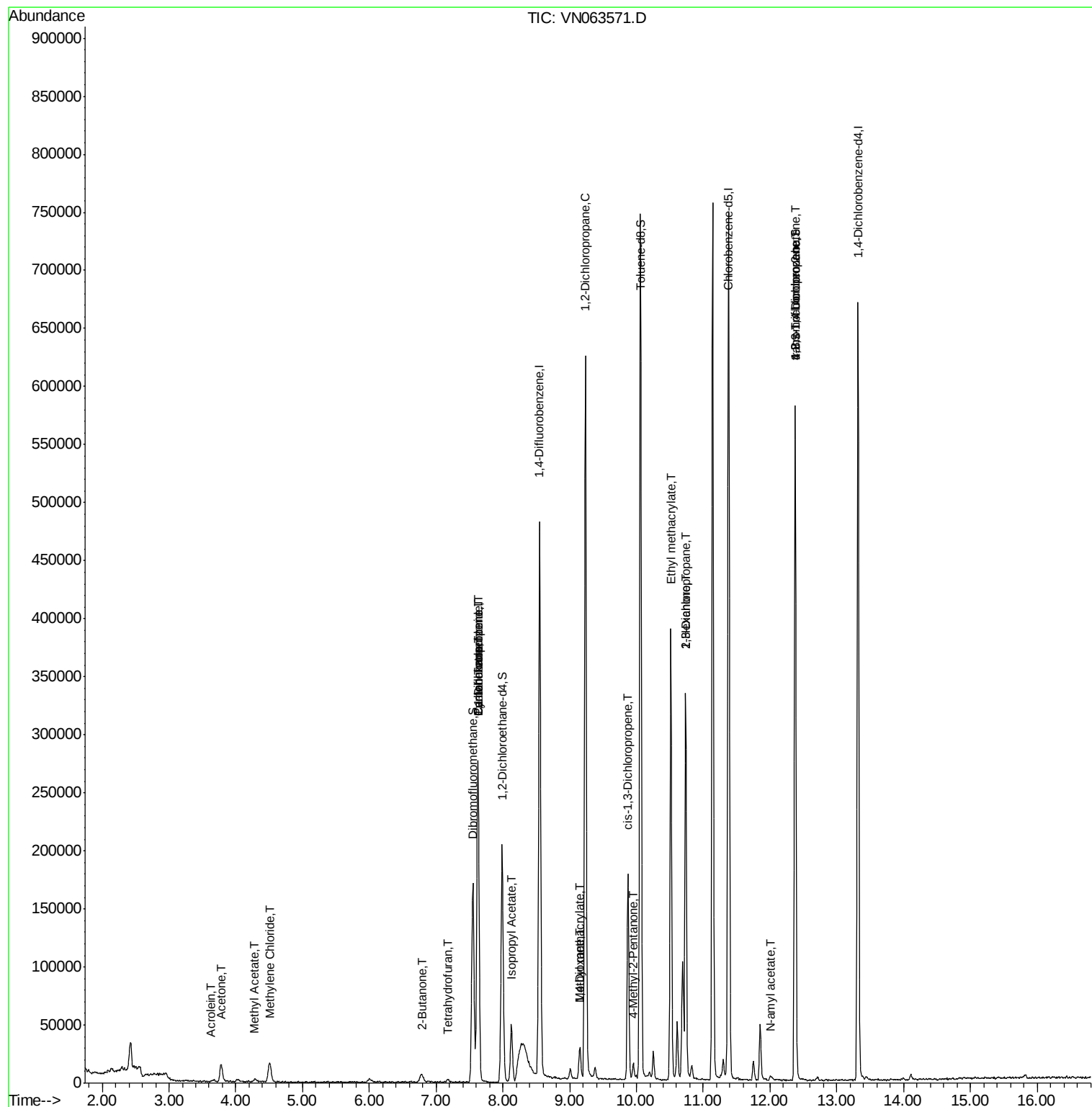
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	75	0.427	ug/l #	59
16) Acetone	3.78	43	28193	25.649	ug/l	99
18) Methyl Acetate	4.28	43	2358	0.845	ug/l #	80
20) Methylene Chloride	4.50	84	12451	4.471	ug/l	88
25) 2-Butanone	6.80	43	2445	1.446	ug/l	94
29) Tetrahydrofuran	7.17	42	1313	1.137	ug/l #	64
31) Cyclohexane	7.62	56	5688	1.204	ug/l #	21
36) 1,1-Dichloropropene	7.62	75	19390	4.667	ug/l #	50
38) Carbon Tetrachloride	7.62	117	22826	5.382	ug/l #	19
43) Isopropyl Acetate	8.13	43	58854	8.072	ug/l	100
45) 1,2-Dichloropropane	9.23	63	733	0.227	ug/l #	43
48) Methyl methacrylate	9.14	41	3556	0.993	ug/l #	36
49) 1,4-Dioxane	9.16	88	107	2.082	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8226	2.015	ug/l #	85
54) cis-1,3-Dichloropropene	9.87	75	27487	5.293	ug/l #	72
56) Ethyl methacrylate	10.51	69	2035	0.460	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	1394	0.273	ug/l #	42
59) 2-Hexanone	10.74	43	52047	17.601	ug/l #	56
74) N-amyl acetate	12.02	43	3696	0.612	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	107670	27.320	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107670	74.902	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

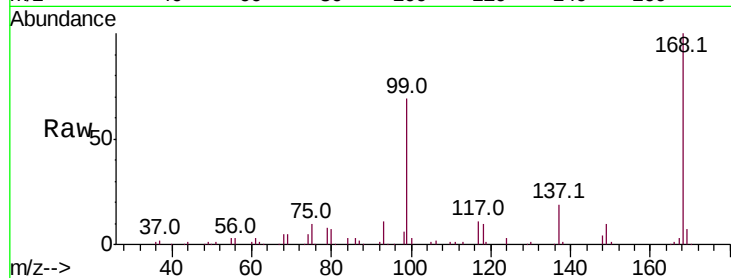
OK-01-092120

Tot Ion:168 Resp: 200919

Ion Ratio Lower Upper

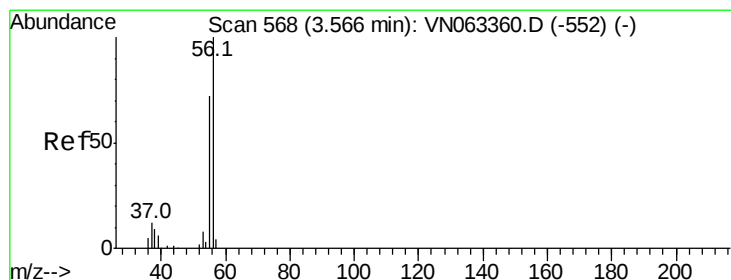
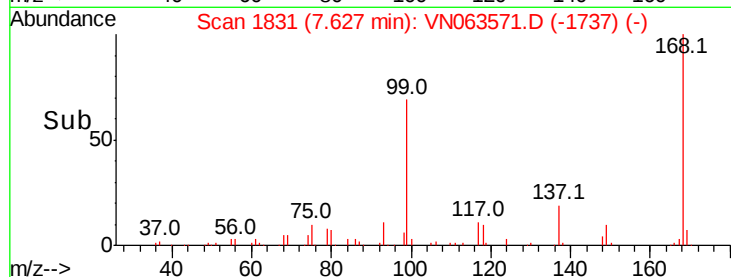
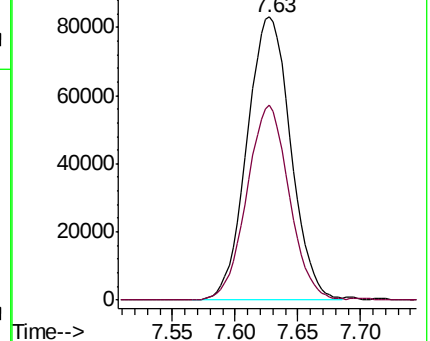
168 100

99 68.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.427 ug/l

RT: 3.62 min Scan# 585

Delta R.T. 0.06 min

Lab File: VN063571.D

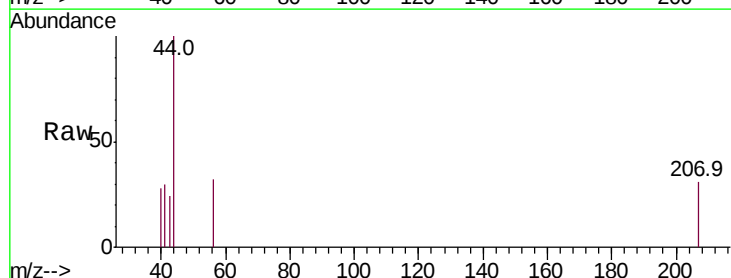
Acq: 23 Sep 2020 7:40

Tgt Ion: 56 Resp: 75

Ion Ratio Lower Upper

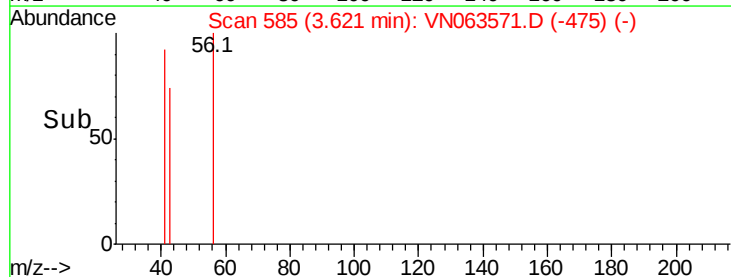
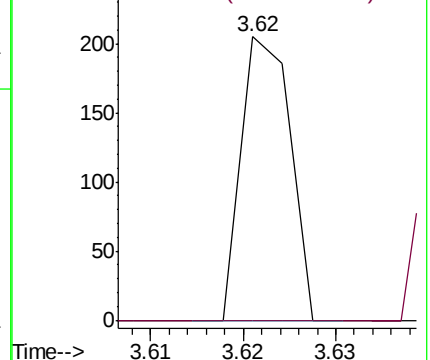
56 100

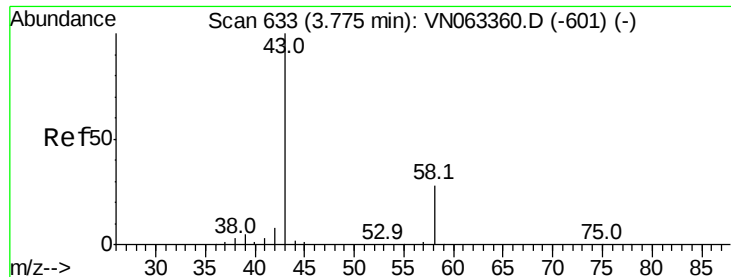
55 38.7 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 25.649 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

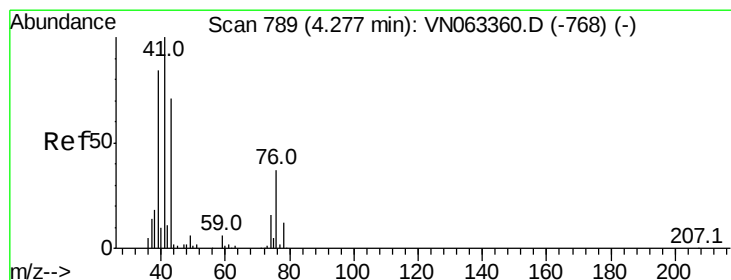
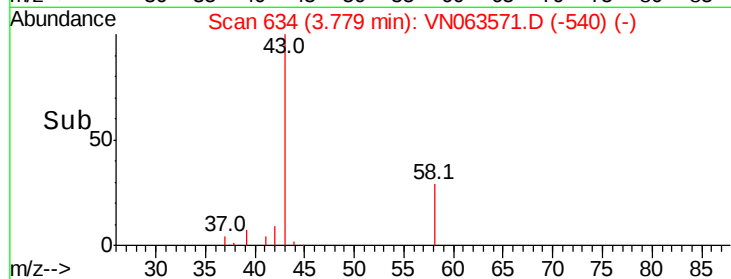
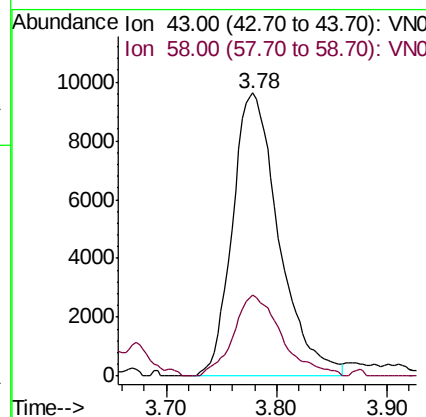
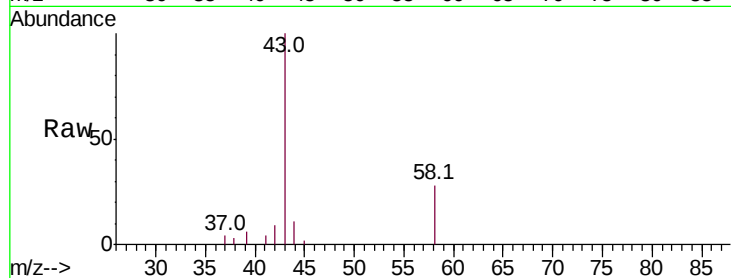
OK-01-092120

Tot Ion: 43 Resp: 28193

Ion Ratio Lower Upper

43 100

58 28.5 22.3 33.5



#18

Methyl Acetate

Concen: 0.845 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063571.D

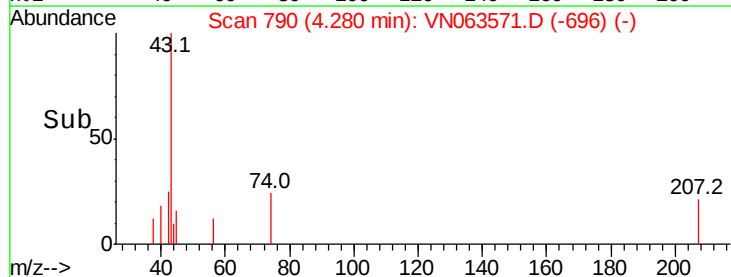
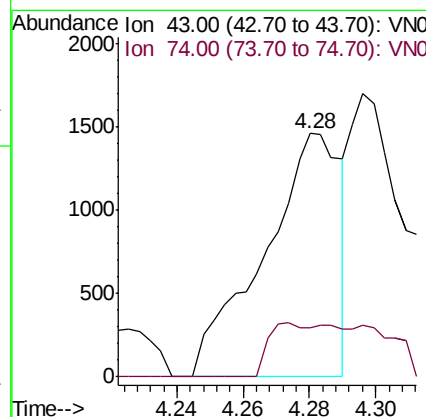
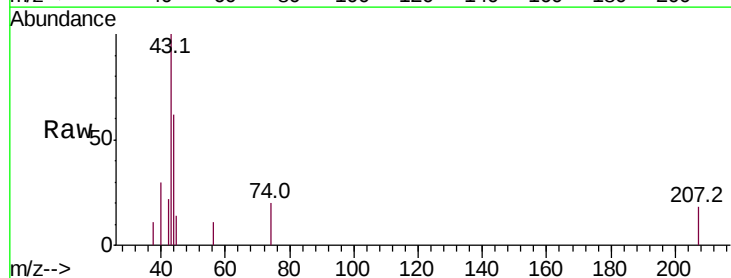
Acq: 23 Sep 2020 7:40

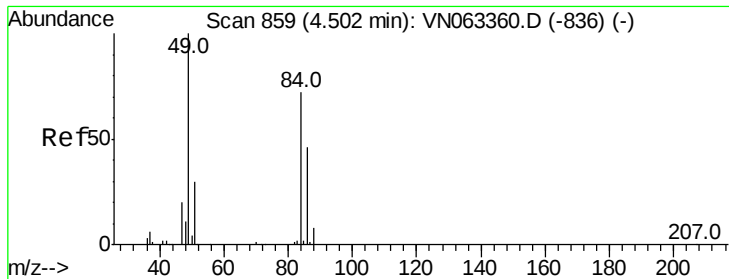
Tgt Ion: 43 Resp: 2358

Ion Ratio Lower Upper

43 100

74 12.1 17.4 26.2#





#20

Methylene Chloride

Concen: 4.471 ug/l

RT: 4.50 min Scan# 858

Delta R.T. -0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

Tot Ion: 84 Resp: 12451

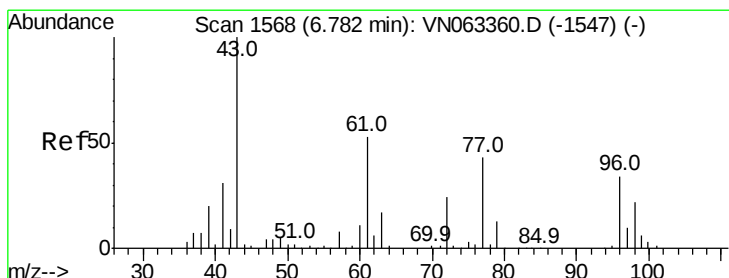
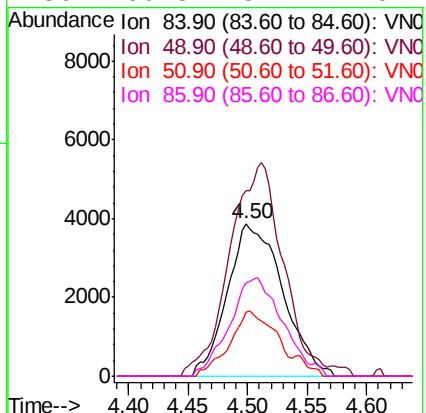
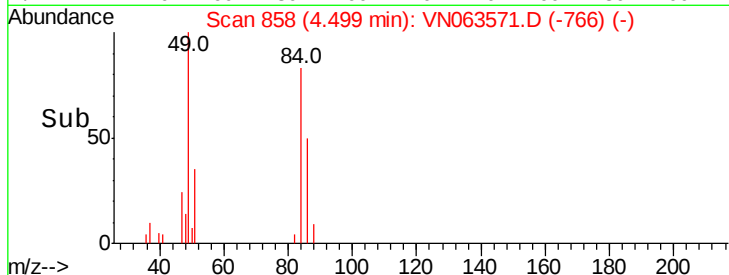
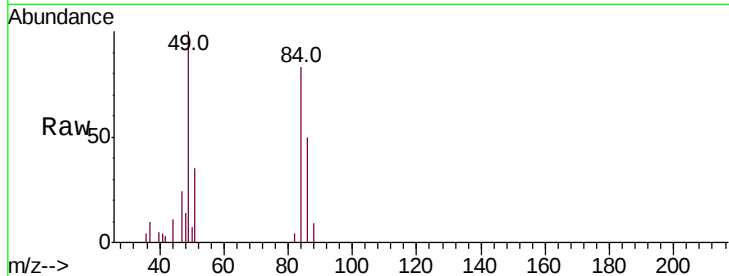
Ion Ratio Lower Upper

84 100

49 114.9 110.7 166.1

51 42.2 32.9 49.3

86 60.8 51.1 76.7



#25

2-Butanone

Concen: 1.446 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN063571.D

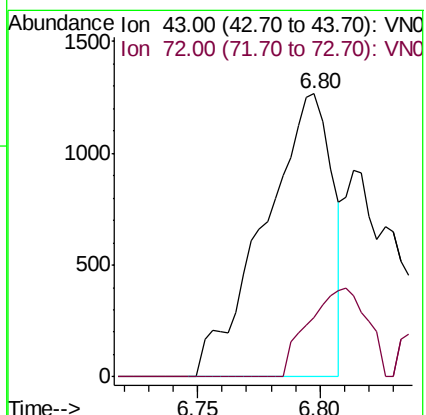
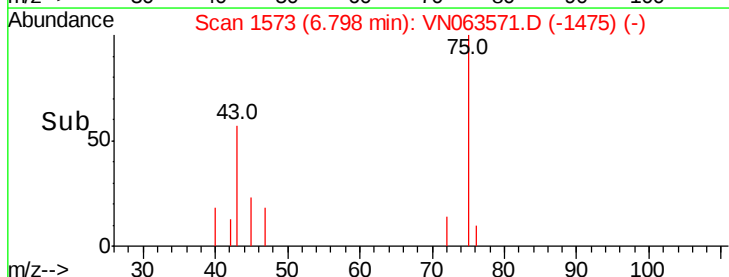
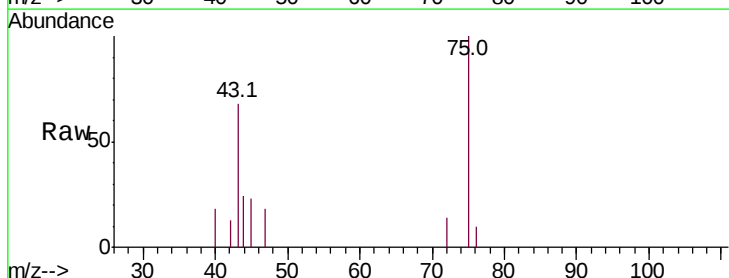
Acq: 23 Sep 2020 7:40

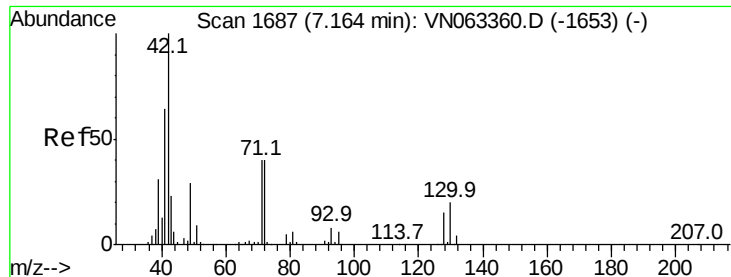
Tgt Ion: 43 Resp: 2445

Ion Ratio Lower Upper

43 100

72 21.2 19.2 28.8





#29

Tetrahydrofuran

Concen: 1.137 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

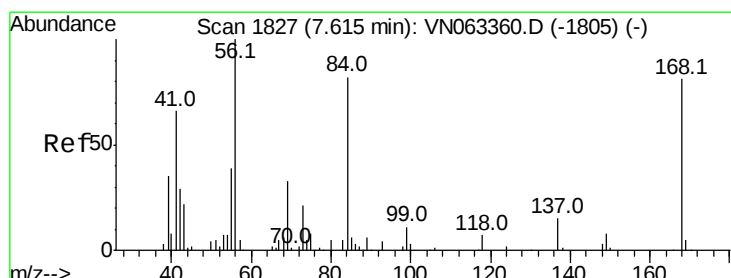
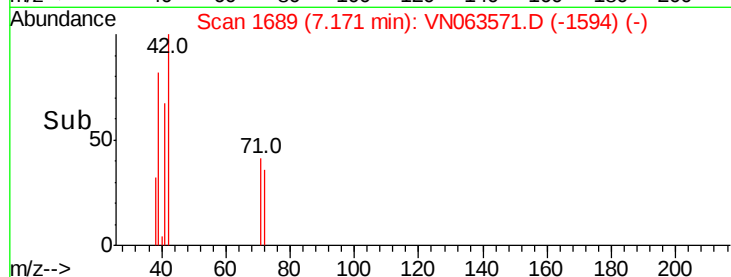
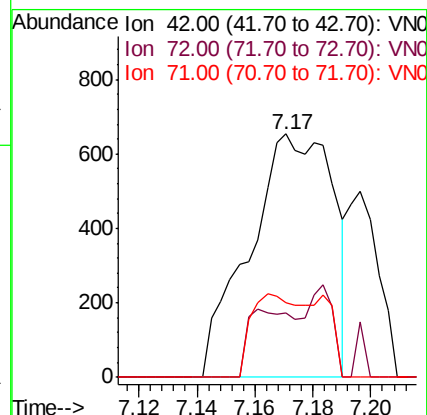
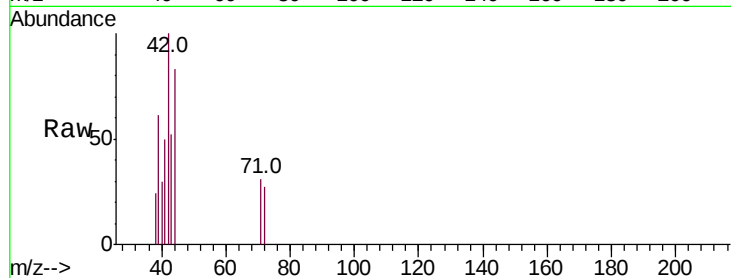
Tot Ion: 42 Resp: 1313

Ion Ratio Lower Upper

42 100

72 15.0 32.1 48.1#

71 20.3 31.2 46.8#



#31

Cyclohexane

Concen: 1.204 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

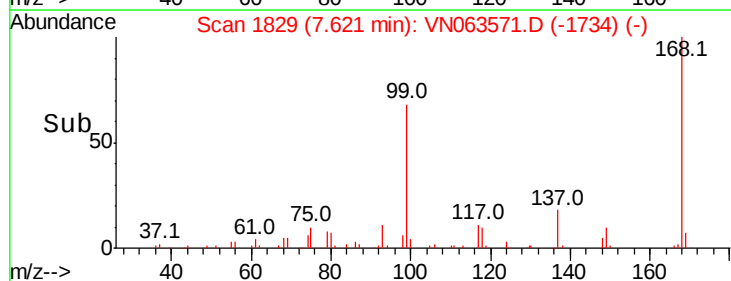
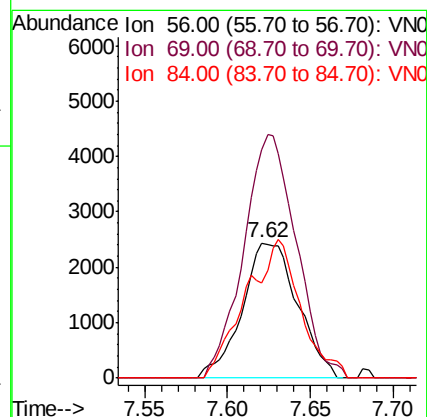
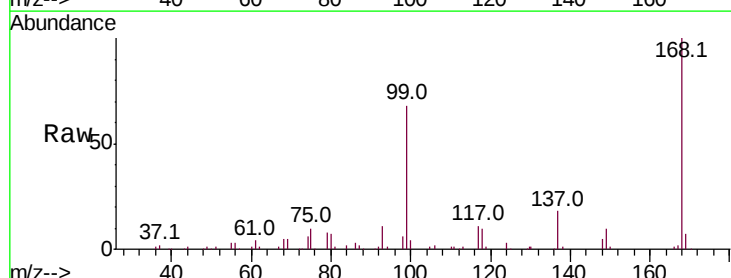
Tgt Ion: 56 Resp: 5688

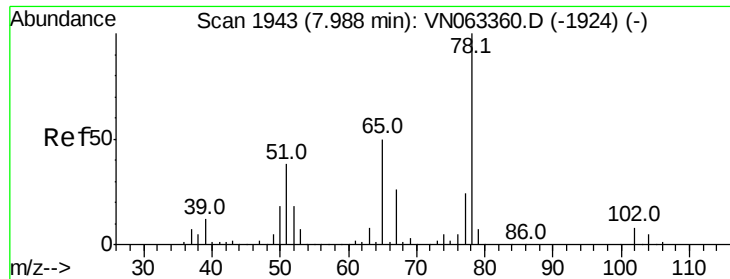
Ion Ratio Lower Upper

56 100

69 169.4 26.1 39.1#

84 70.1 65.4 98.2

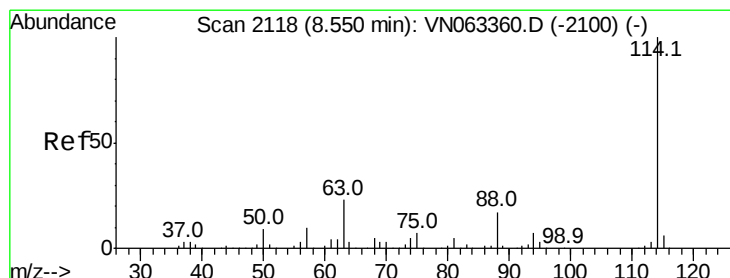
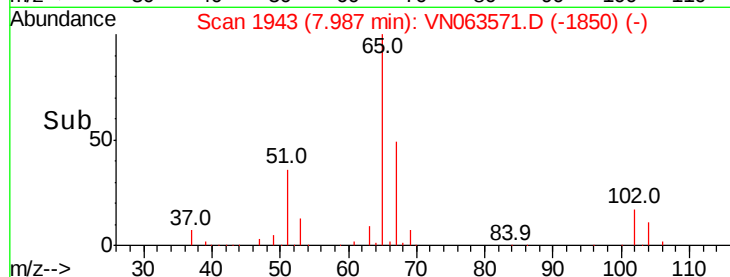
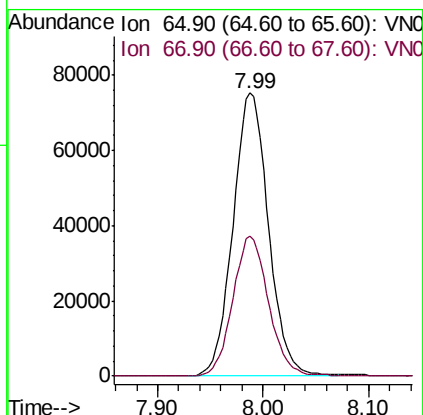
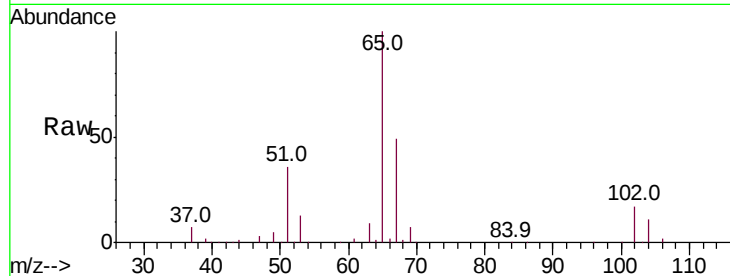




#33
 1,2-Dichloroethane-d4
 Concen: 51.350 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063571.D
 Acq: 23 Sep 2020 7:40

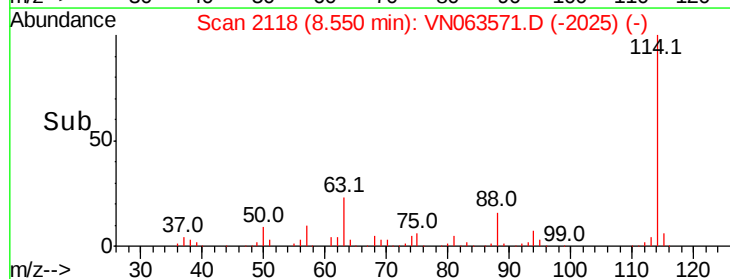
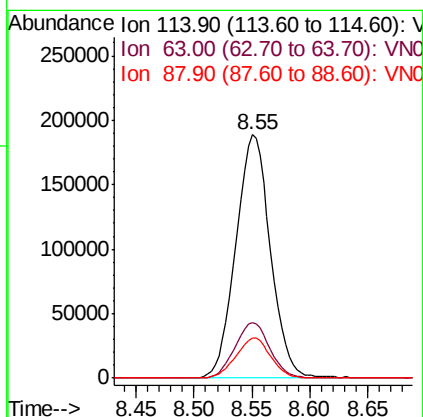
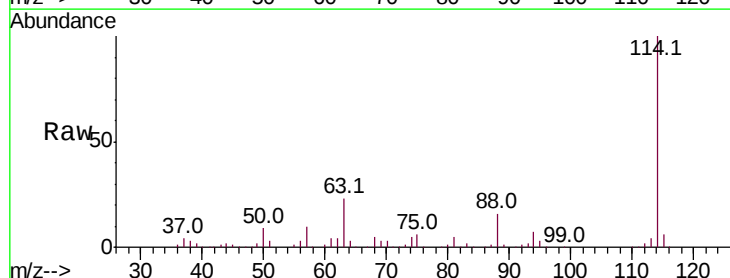
Instrument :
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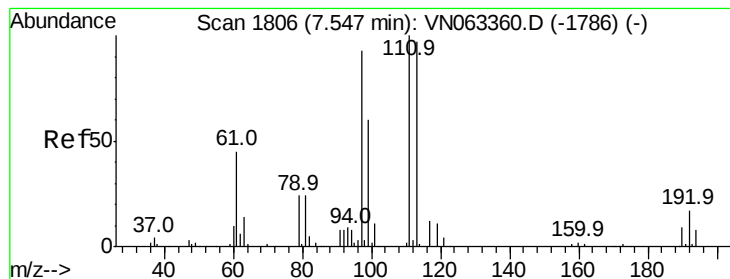
Tot Ion: 65 Resp: 175626
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063571.D
 Acq: 23 Sep 2020 7:40

Tgt Ion: 114 Resp: 389962
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.4
 88 16.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.226 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

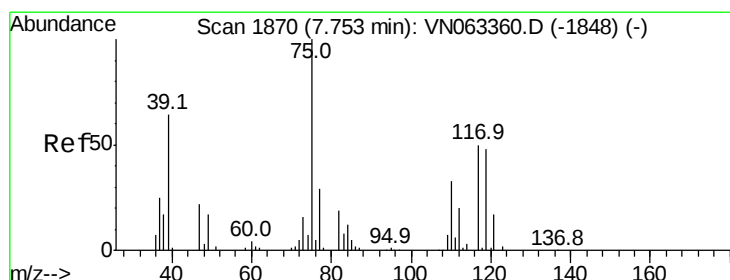
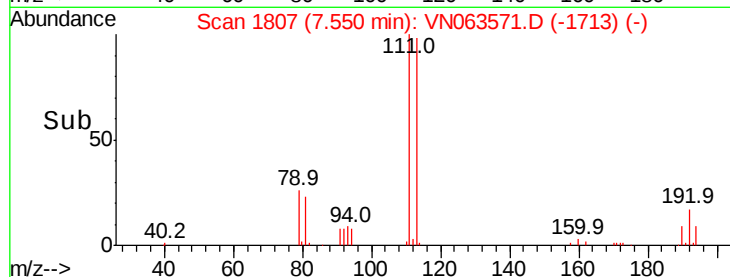
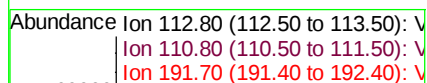
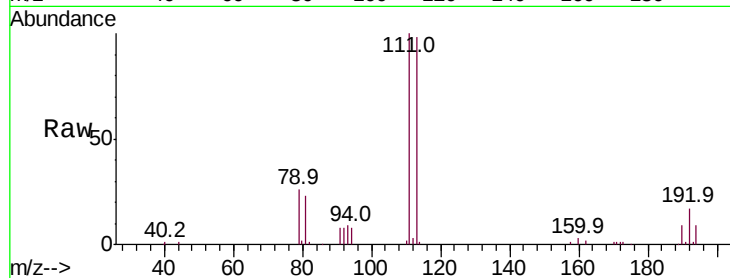
Tot Ion:113 Resp: 124792

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

192 17.9 13.9 20.9



#36

1,1-Dichloropropene

Concen: 4.667 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

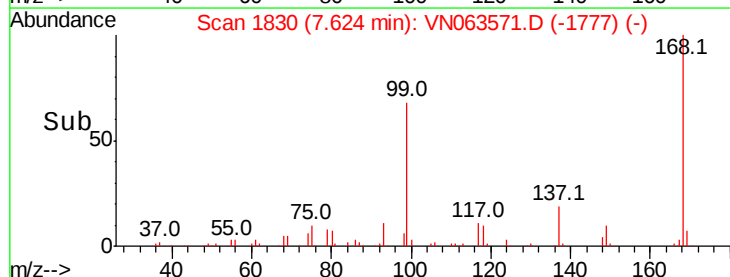
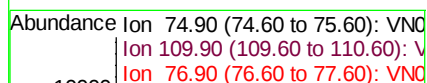
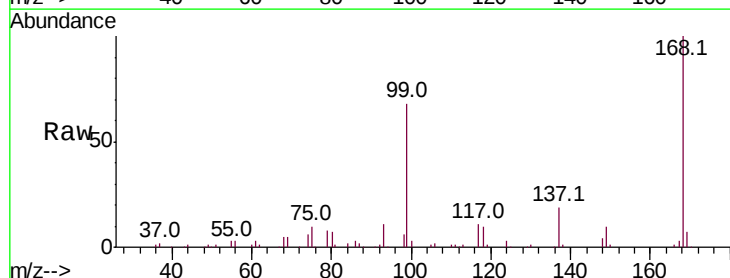
Tgt Ion: 75 Resp: 19390

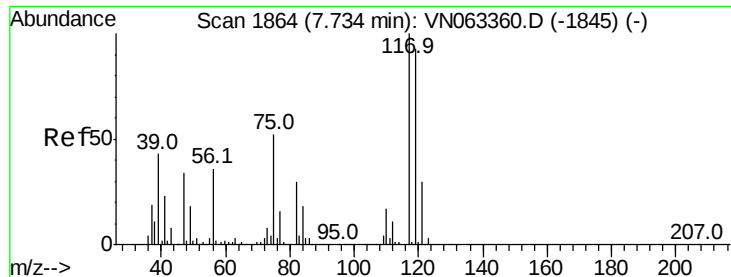
Ion Ratio Lower Upper

75 100

110 8.0 16.5 49.5#

77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.382 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

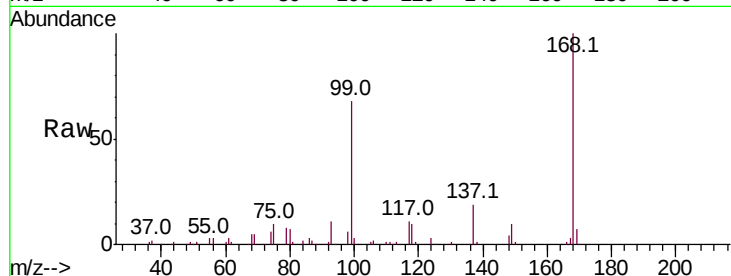
Tot Ion:117 Resp: 22826

Ion Ratio Lower Upper

117 100

119 7.6 74.5 111.7#

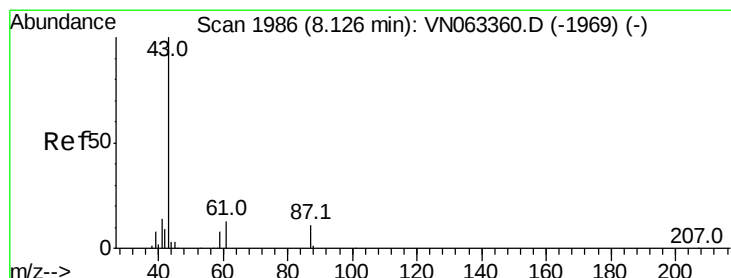
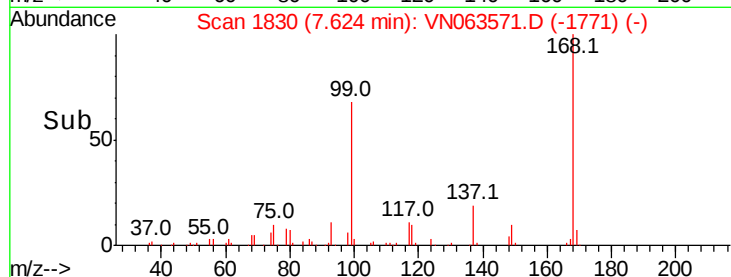
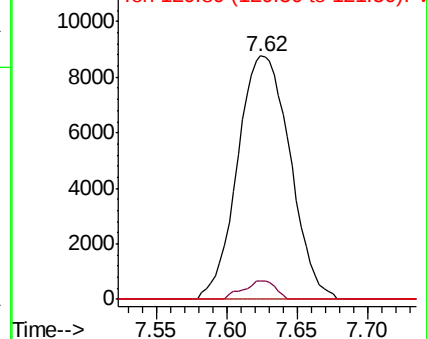
121 0.0 24.1 36.1#



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: 8.072 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

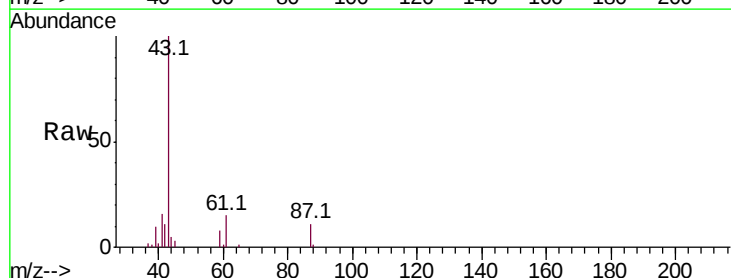
Tgt Ion: 43 Resp: 58854

Ion Ratio Lower Upper

43 100

61 17.6 14.2 21.2

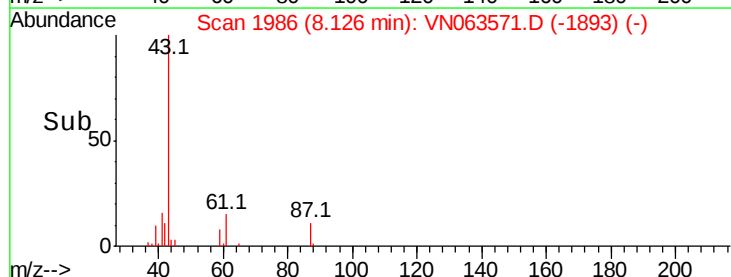
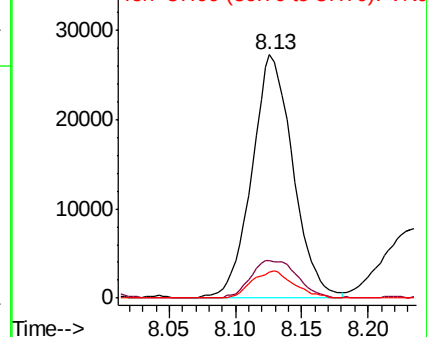
87 11.4 9.0 13.6

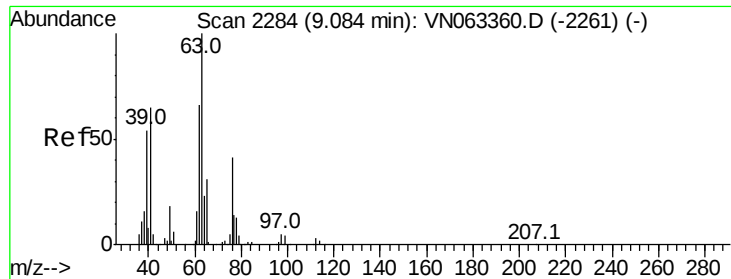


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.227 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

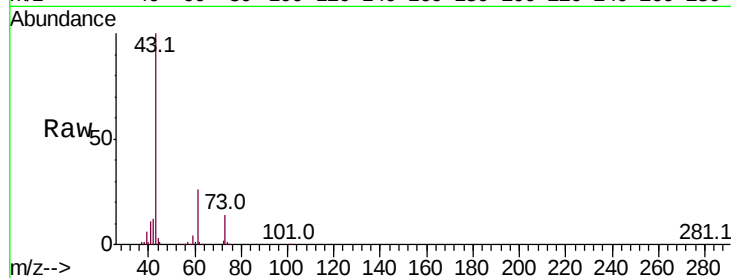
OK-01-092120

Tot Ion: 63 Resp: 733

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

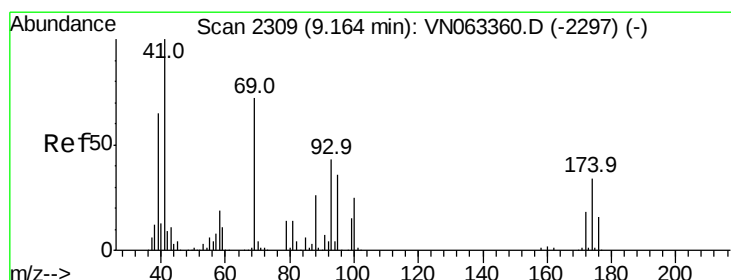
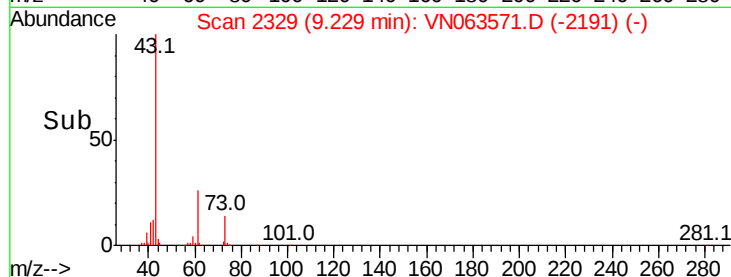
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 0.993 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

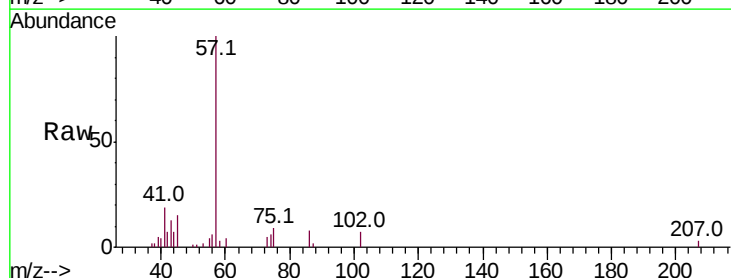
Tgt Ion: 41 Resp: 3556

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 35.7 52.9 79.3#



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

25000

20000

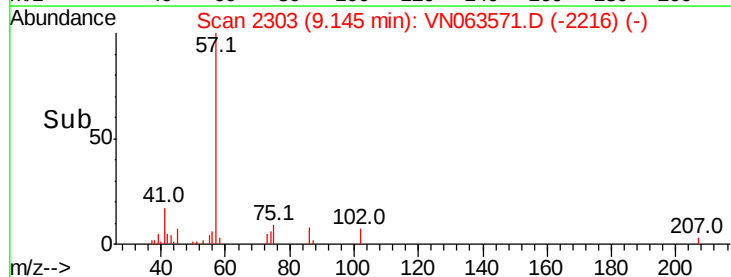
15000

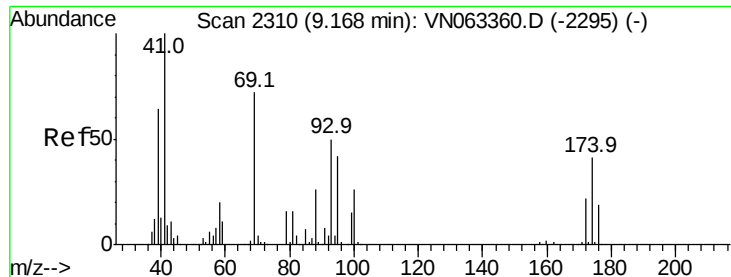
10000

5000

0

Time-->





#49

1,4-Dioxane

Concen: 2.082 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

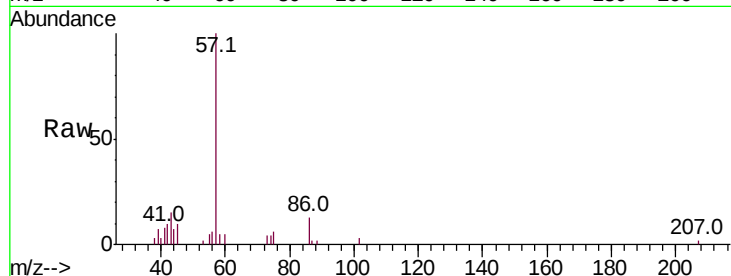
Tot Ion: 88 Resp: 107

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

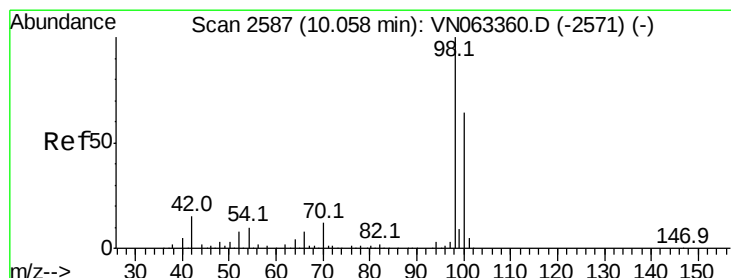
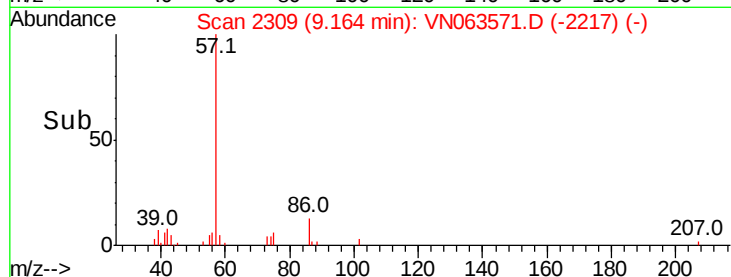
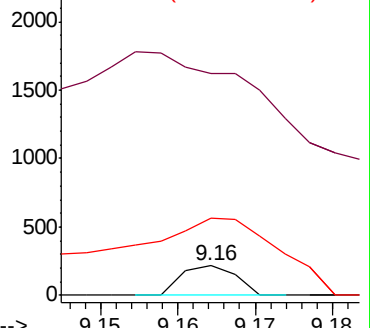
58 1029.9 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.063 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063571.D

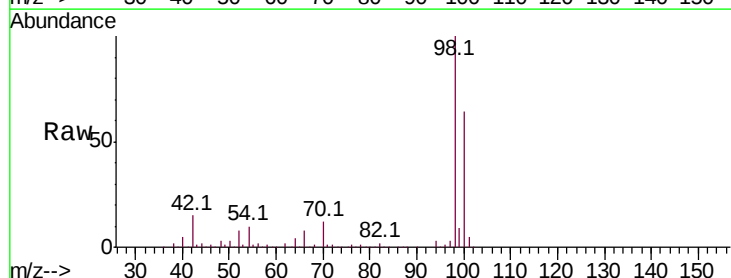
Acq: 23 Sep 2020 7:40

Tgt Ion: 98 Resp: 498038

Ion Ratio Lower Upper

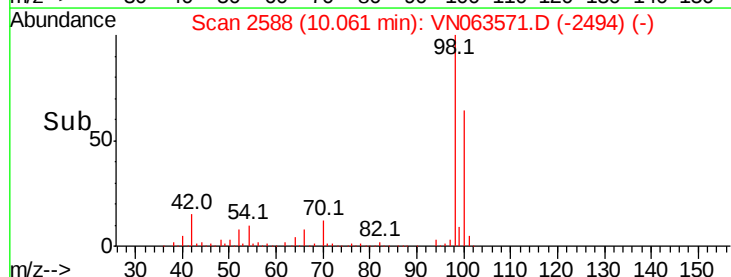
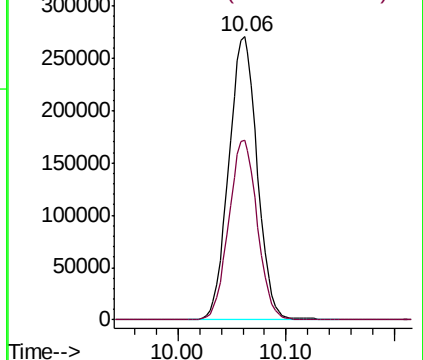
98 100

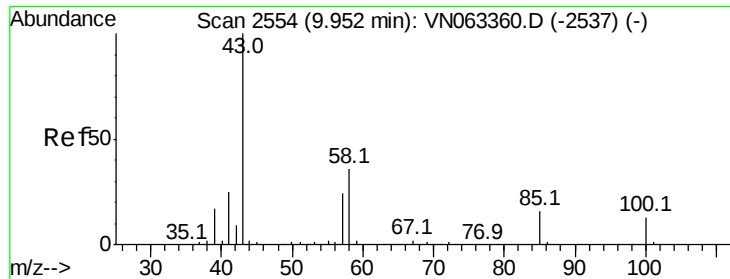
100 63.6 50.7 76.1



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: 2.015 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

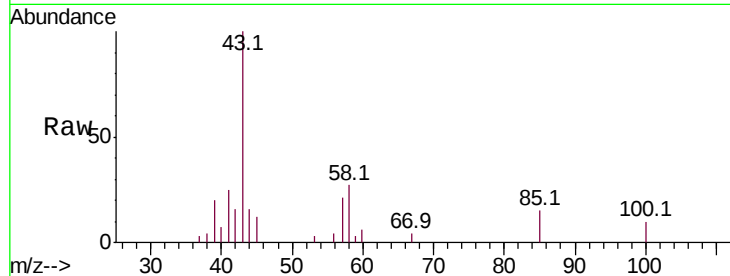
OK-01-092120

Tot Ion: 43 Resp: 8226

Ion Ratio Lower Upper

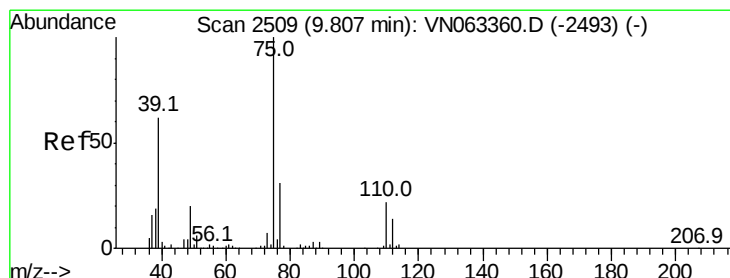
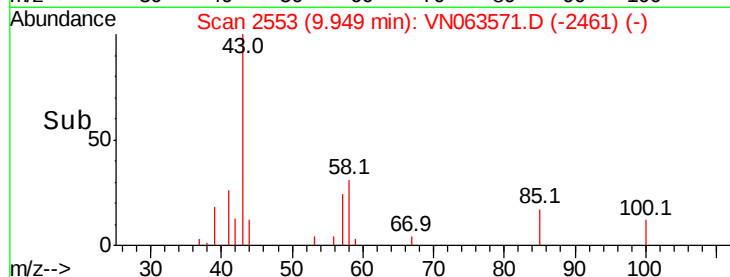
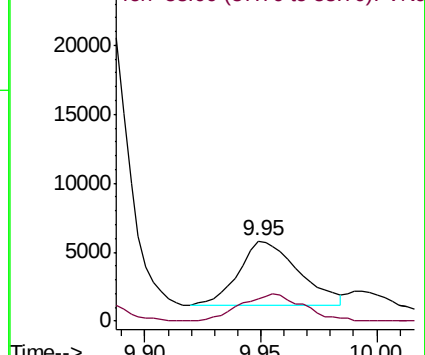
43 100

58 45.3 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.293 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

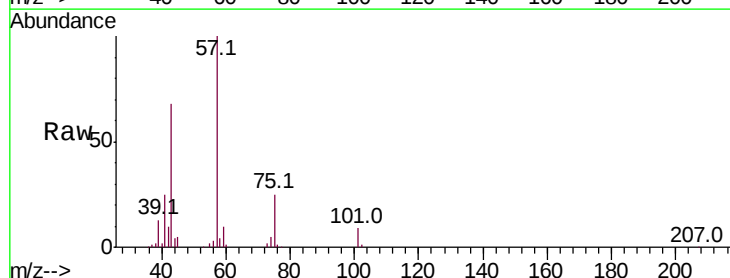
Tgt Ion: 75 Resp: 27487

Ion Ratio Lower Upper

75 100

77 1.2 24.6 37.0#

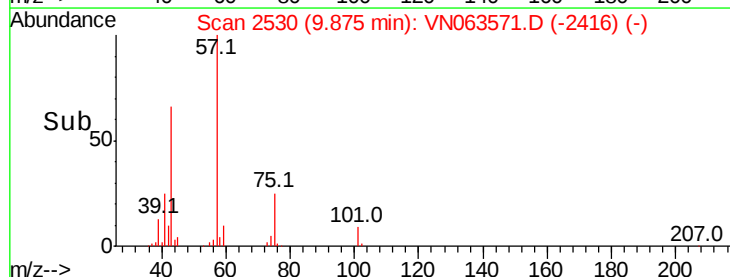
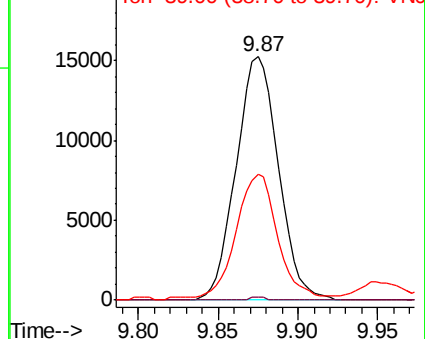
39 50.8 49.8 74.8

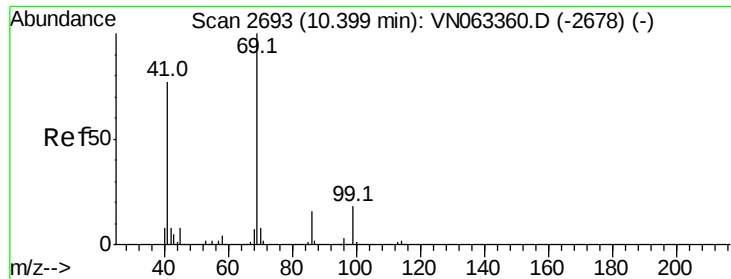


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.460 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

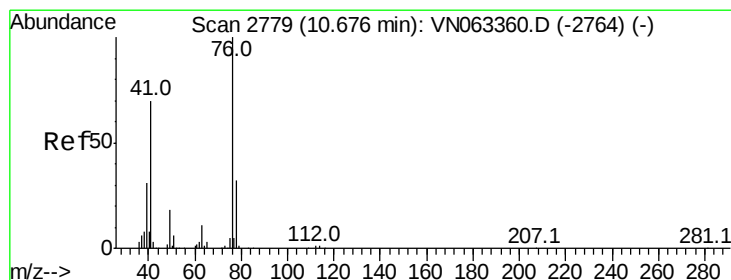
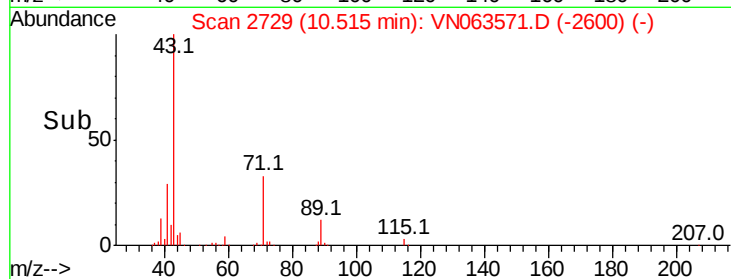
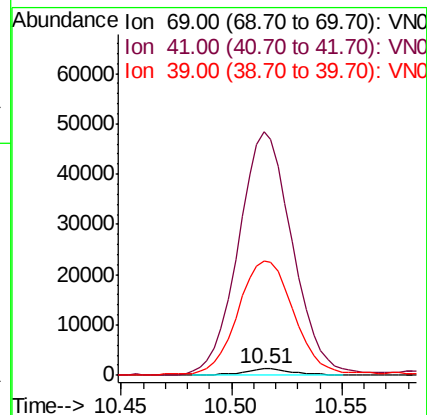
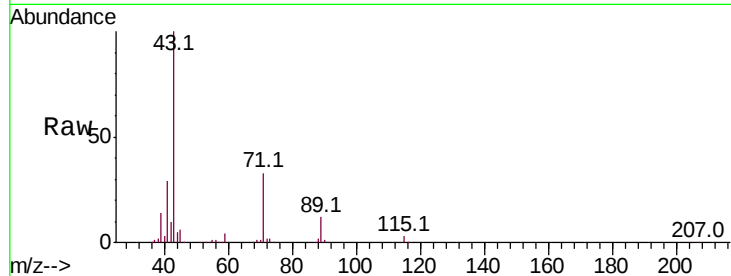
Tot Ion: 69 Resp: 2035

Ion Ratio Lower Upper

69 100

41 4071.8 61.0 91.6#

39 2004.4 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.273 ug/l

RT: 10.73 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN063571.D

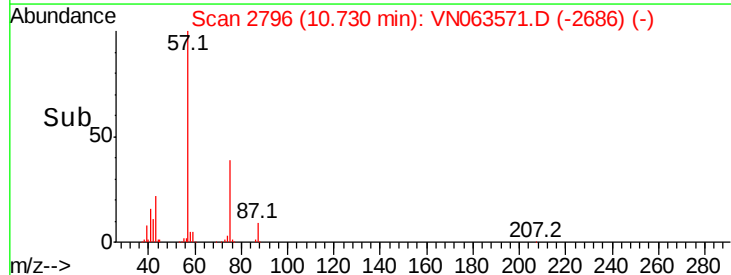
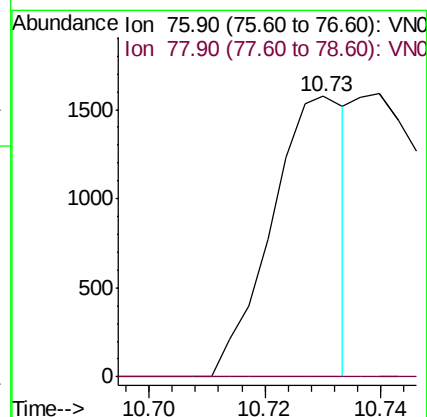
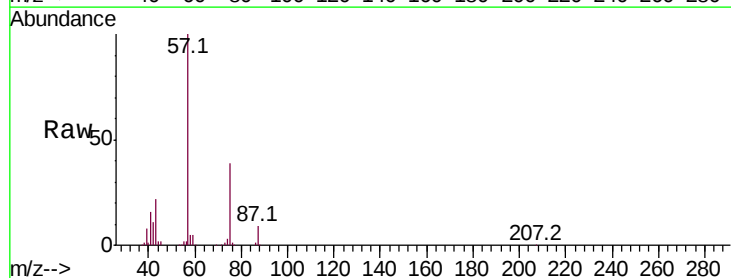
Acq: 23 Sep 2020 7:40

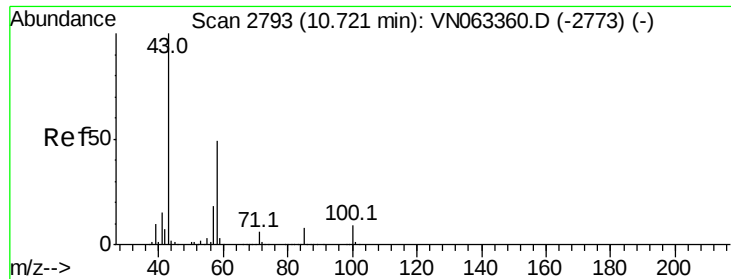
Tgt Ion: 76 Resp: 1394

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#

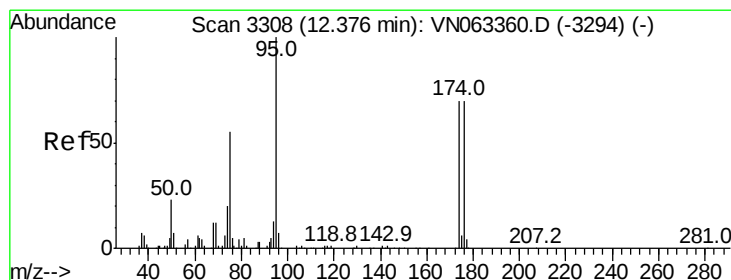
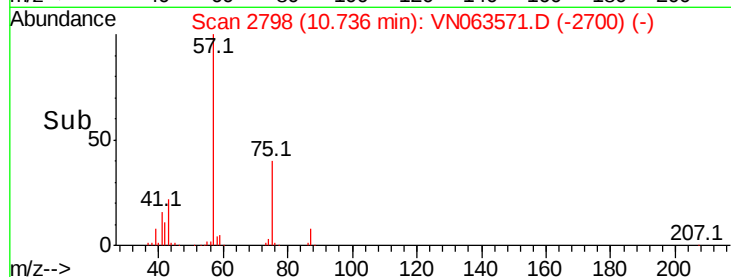
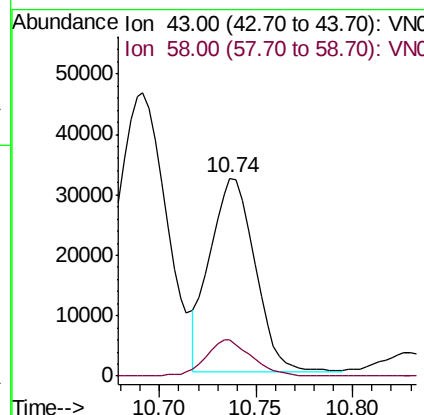
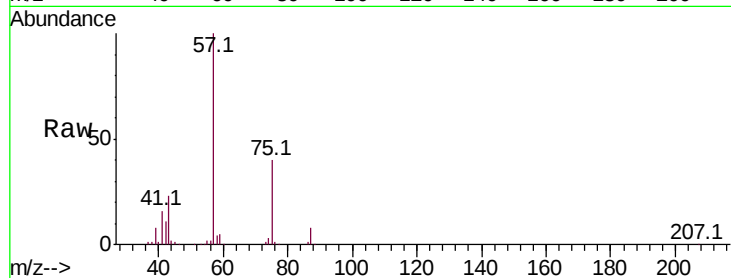




#59
2-Hexanone
Concen: 17.601 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063571.D
Acq: 23 Sep 2020 7:40

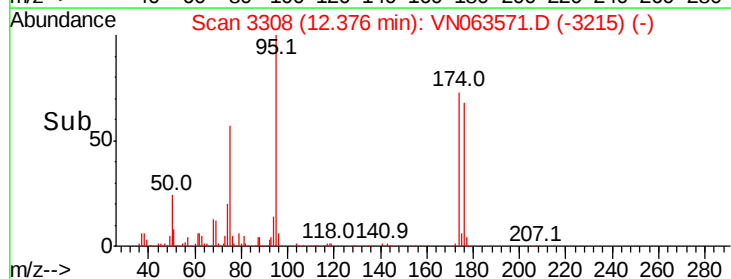
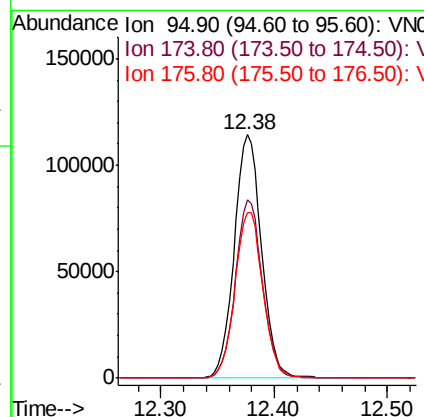
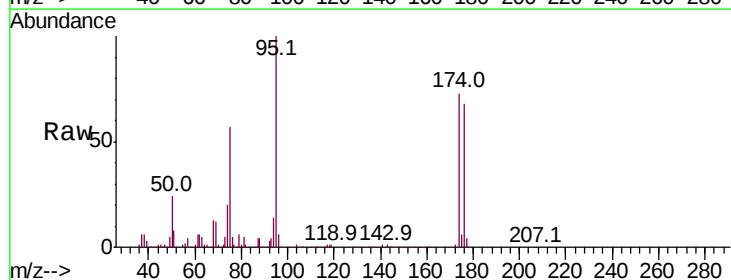
Instrument :
MSVOA_N
ClientSampleId :
OK-01-092120

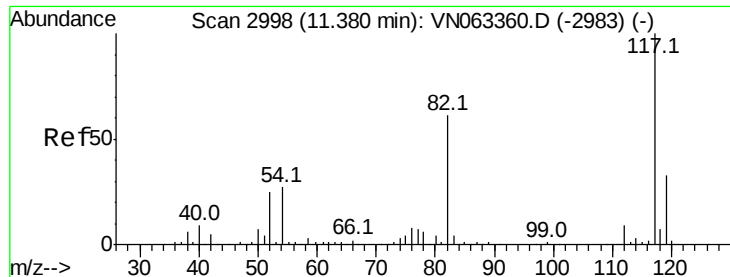
Tot Ion: 43 Resp: 52047
Ion Ratio Lower Upper
43 100
58 19.0 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 51.541 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063571.D
Acq: 23 Sep 2020 7:40

Tgt Ion: 95 Resp: 191793
Ion Ratio Lower Upper
95 100
174 72.8 0.0 140.8
176 69.5 0.0 137.6

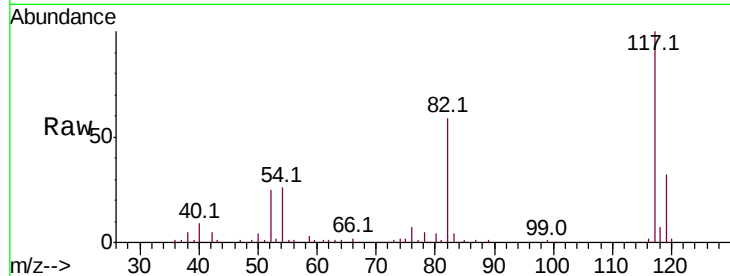




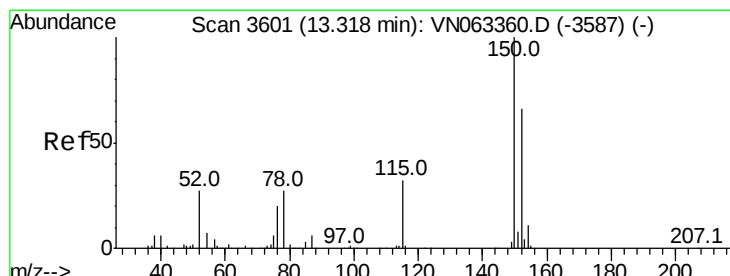
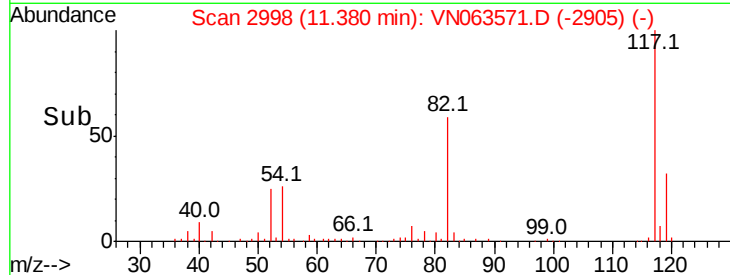
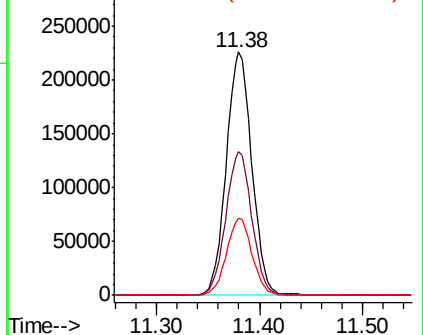
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063571.D
Acq: 23 Sep 2020 7:40

Instrument :
MSVOA_N
ClientSampleId :
OK-01-092120

Tot Ion:117 Resp: 391506
Ion Ratio Lower Upper
117 100
82 58.9 49.2 73.8
119 31.7 26.2 39.4

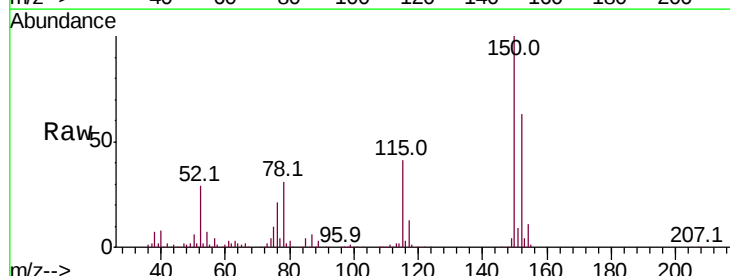


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

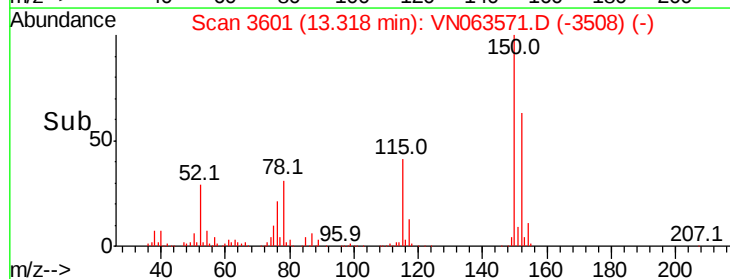
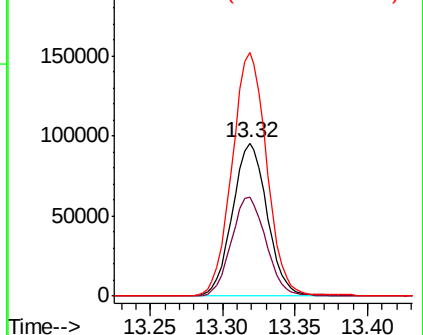


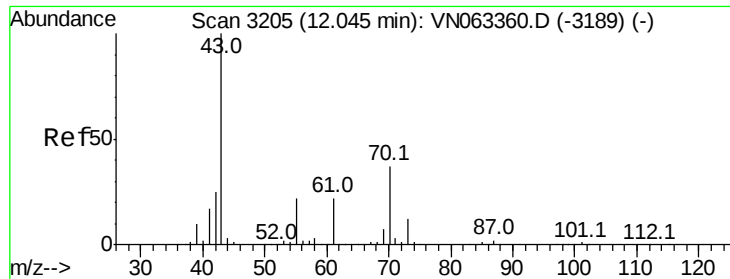
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063571.D
Acq: 23 Sep 2020 7:40

Tgt Ion:152 Resp: 159224
Ion Ratio Lower Upper
152 100
115 64.5 32.2 96.6
150 158.9 0.0 343.4



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





#74

N-amvl acetate

Concen: 0.612 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

Tot Ion: 43 Resp: 3696

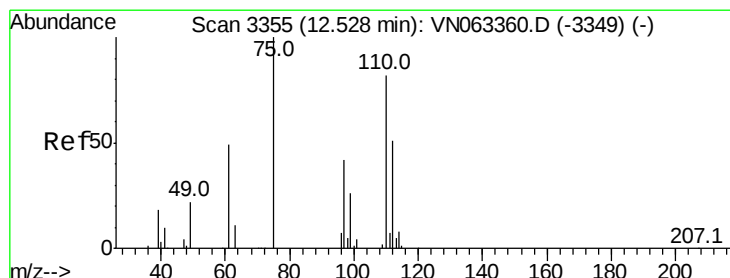
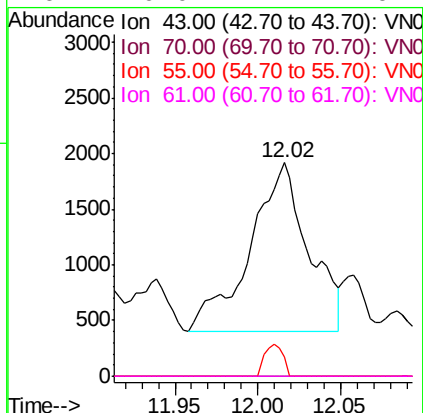
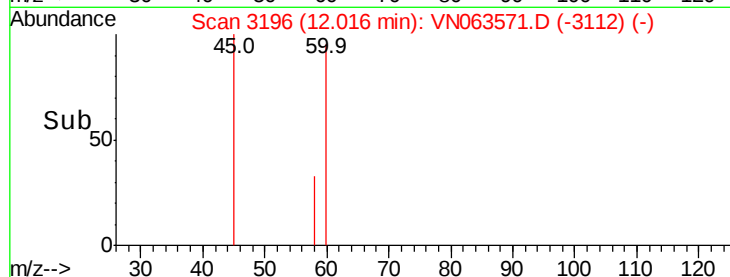
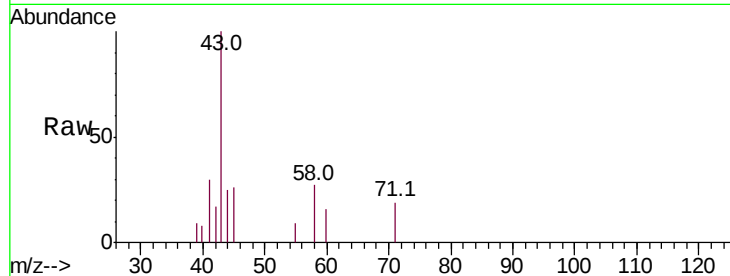
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 6.0 17.7 26.5#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 27.320 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063571.D

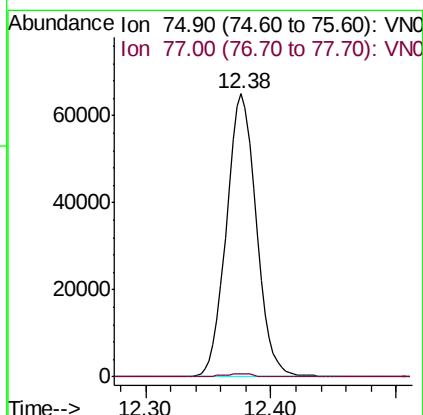
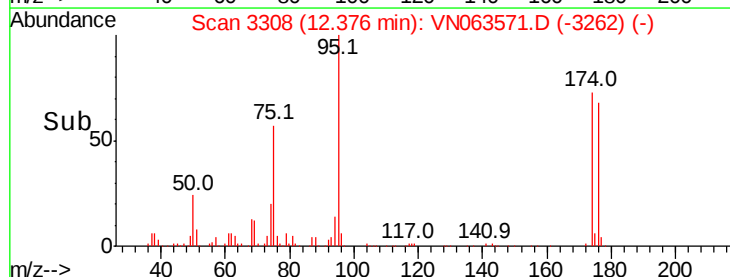
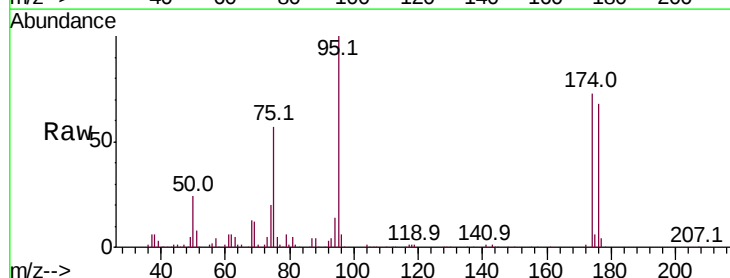
Acq: 23 Sep 2020 7:40

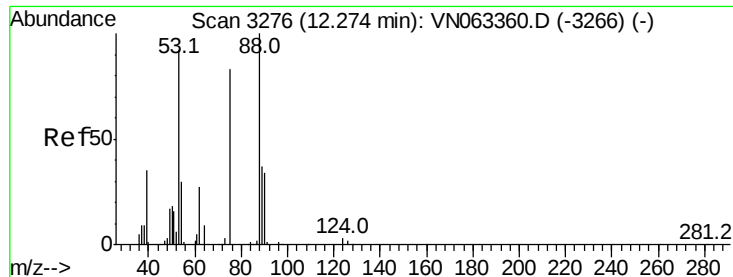
Tgt Ion: 75 Resp: 107670

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 74.902 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063571.D

Acq: 23 Sep 2020 7:40

Instrument :

MSVOA_N

ClientSampleId :

OK-01-092120

Tot Ion: 75 Resp: 107670

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.1 38.0 57.0#

