

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091820\
 Data File : VN063466.D
 Acq On : 18 Sep 2020 18:37
 Operator : JC/MD
 Sample : L3870-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-091720

Quant Time: Sep 21 01:36:30 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	232617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	434506	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	441906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	191254	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	190182	48.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.06%	
35) Dibromofluoromethane	7.55	113	140624	46.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.50%	
50) Toluene-d8	10.06	98	562186	49.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	12.38	95	225266	54.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.66%	

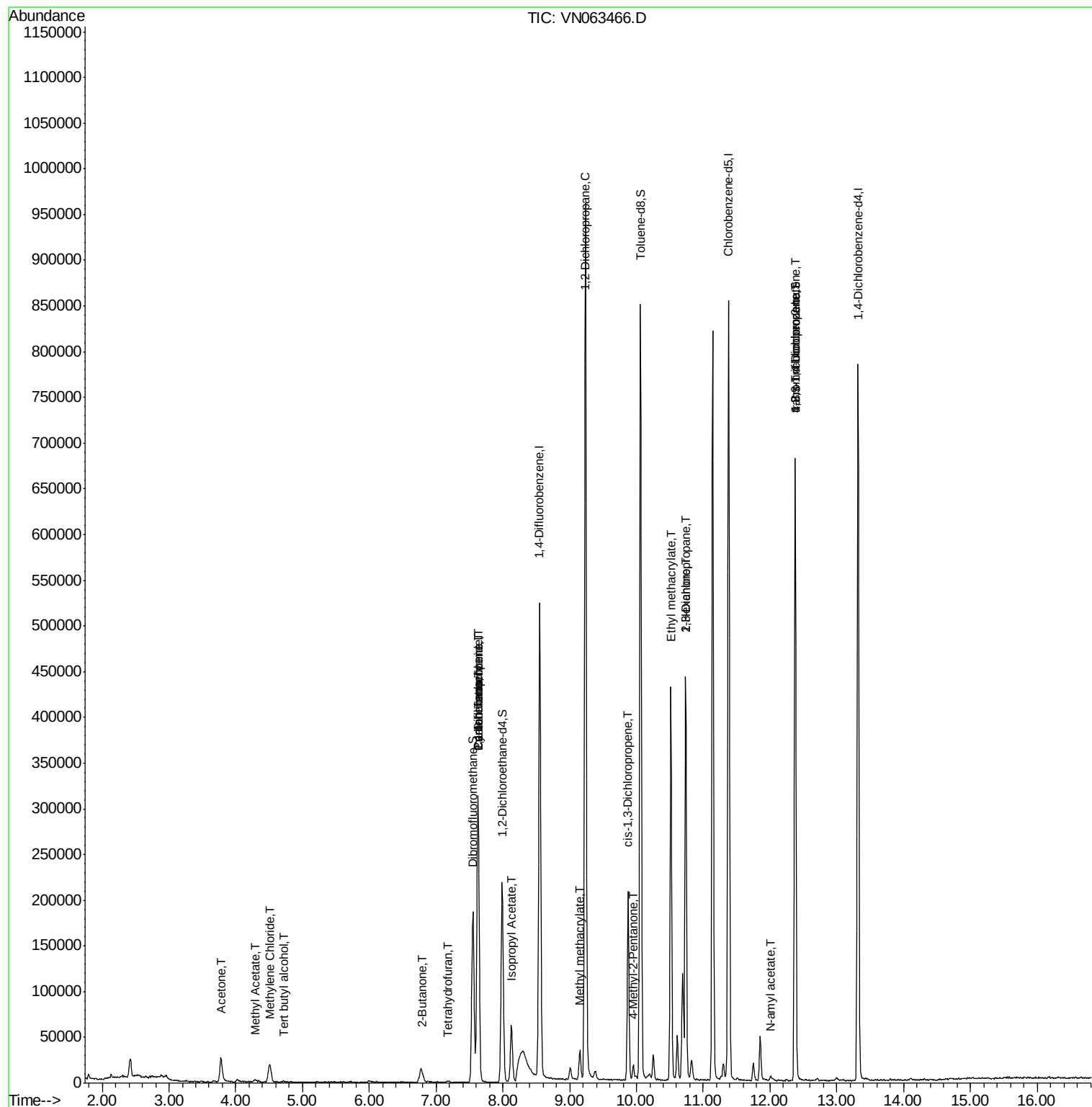
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	544	0.992	ug/l #	72
16) Acetone	3.78	43	46515	36.551	ug/l	98
18) Methyl Acetate	4.29	43	4581	1.418	ug/l #	54
20) Methylene Chloride	4.51	84	13422	4.163	ug/l	97
25) 2-Butanone	6.80	43	4387	2.241	ug/l	91
29) Tetrahydrofuran	7.17	42	535	0.400	ug/l #	49
31) Cyclohexane	7.63	56	6819	1.247	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	20384	4.403	ug/l #	49
38) Carbon Tetrachloride	7.63	117	26711	5.653	ug/l #	16
43) Isopropyl Acetate	8.13	43	76730	9.445	ug/l	99
45) 1,2-Dichloropropane	9.23	63	780	0.217	ug/l #	43
48) Methyl methacrylate	9.15	41	4946	1.239	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	10070	2.214	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	32760	5.661	ug/l #	65
56) Ethyl methacrylate	10.51	69	1248	0.253	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4503	0.791	ug/l #	42
59) 2-Hexanone	10.74	43	66374	20.145	ug/l #	55
74) N-amyl acetate	12.01	43	3511	0.484	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	124969	26.399	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	124969	72.377	ug/l #	7

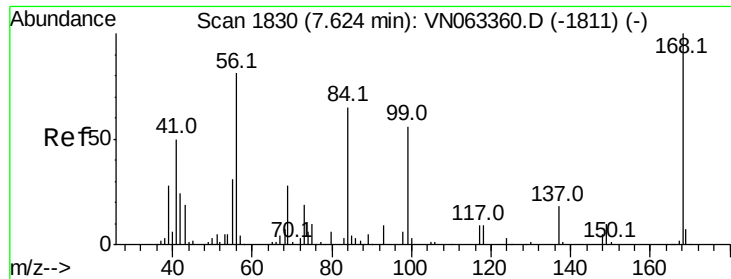
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

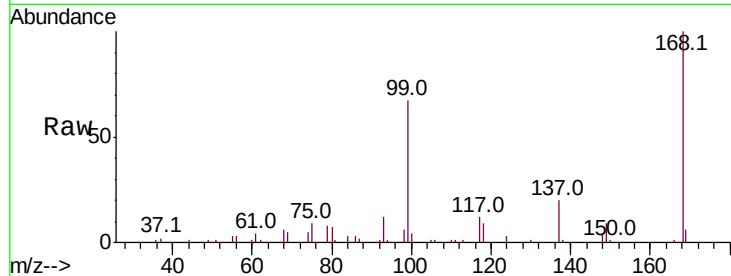
SU-02-091720

Tot Ion:168 Resp: 232617

Ion Ratio Lower Upper

168 100

99 66.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

100000

80000

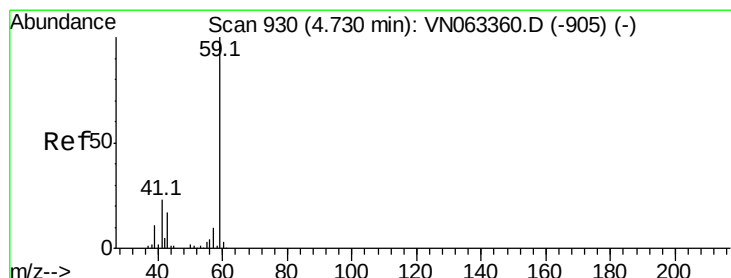
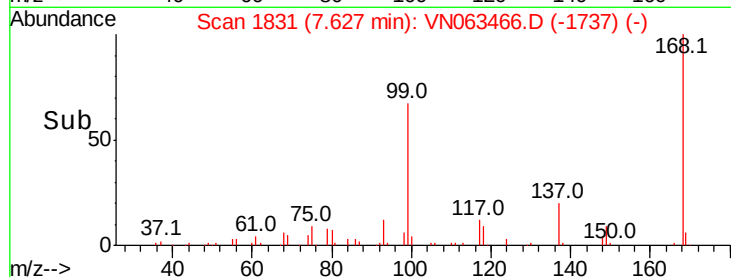
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.992 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN063466.D

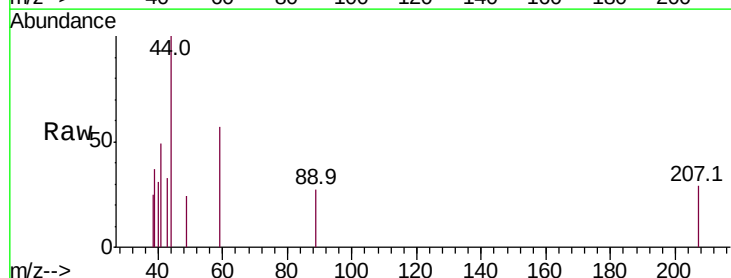
Acq: 18 Sep 2020 18:37

Tgt Ion: 59 Resp: 544

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063360.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063360.D (-905) (-)

4.72

400

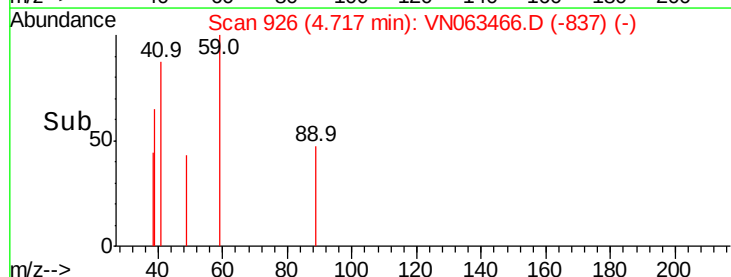
300

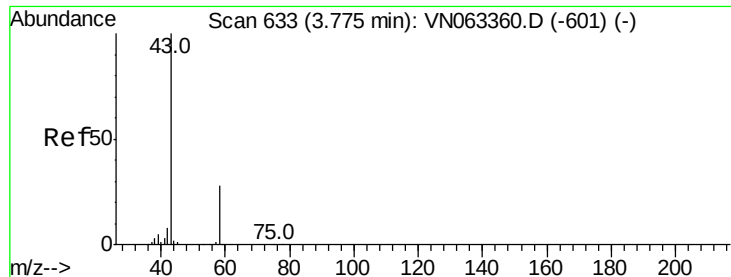
200

100

0

Time--> 4.68 4.70 4.72 4.74





#16

Acetone

Concen: 36.551 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

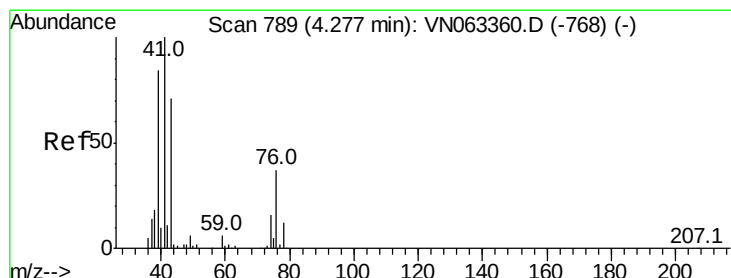
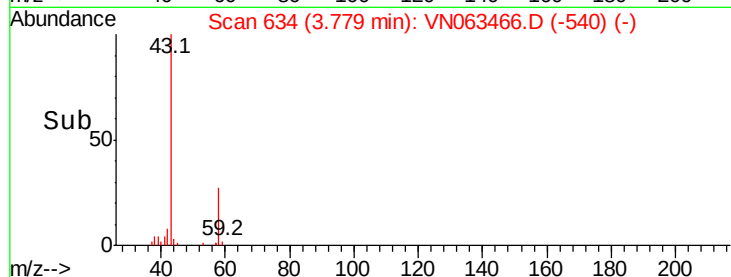
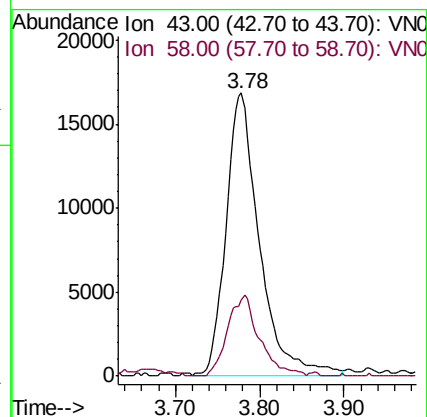
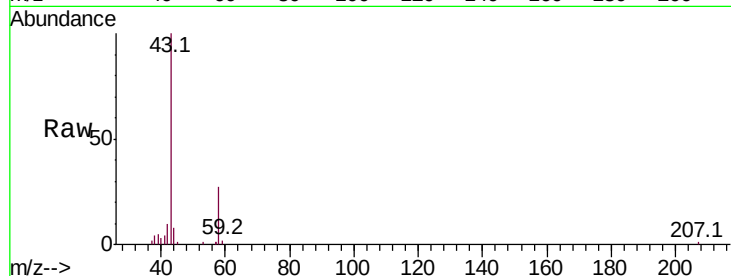
SU-02-091720

Tot Ion: 43 Resp: 46515

Ion Ratio Lower Upper

43 100

58 26.7 22.3 33.5



#18

Methyl Acetate

Concen: 1.418 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063466.D

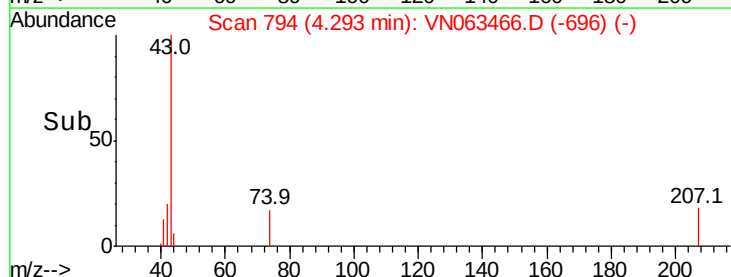
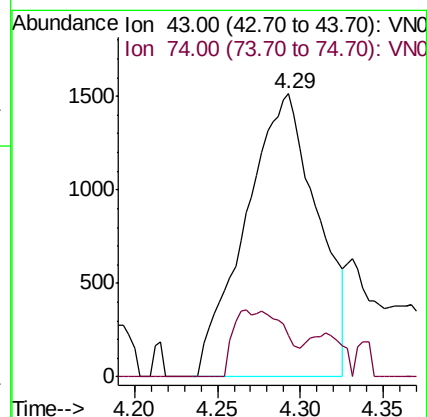
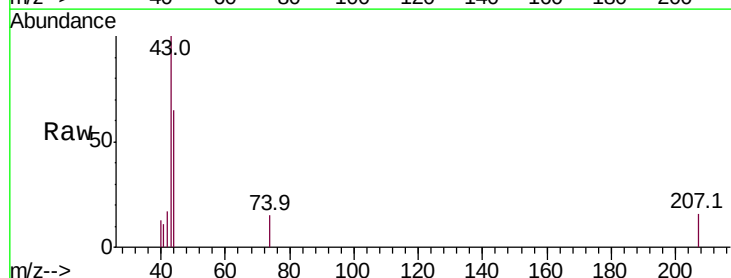
Acq: 18 Sep 2020 18:37

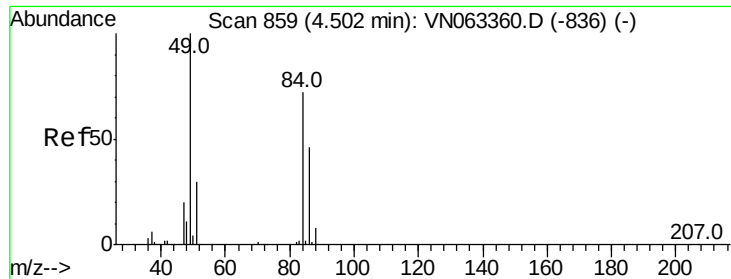
Tgt Ion: 43 Resp: 4581

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#

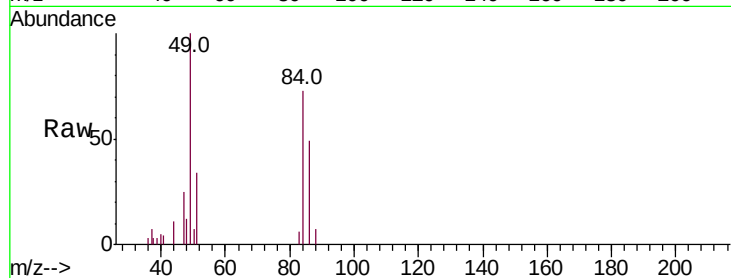




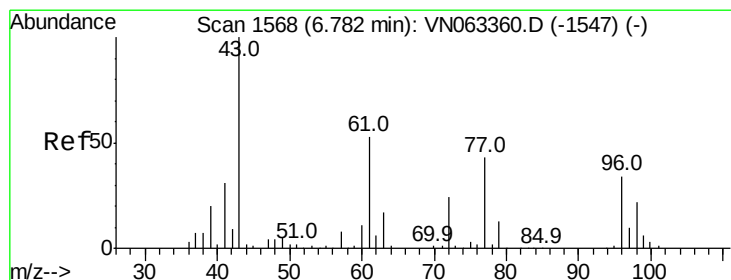
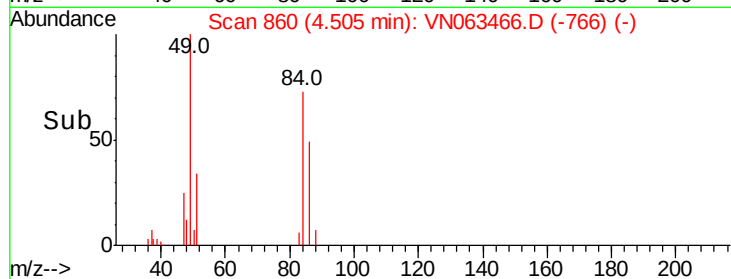
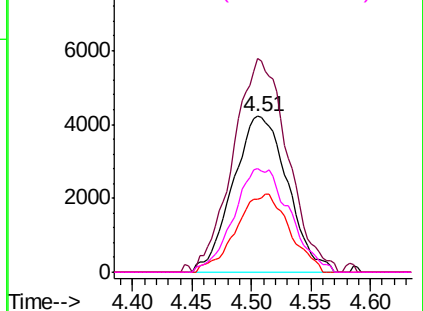
#20
Methvlene Chloride
Concen: 4.163 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063466.D
Acq: 18 Sep 2020 18:37

Instrument :
MSVOA_N
ClientSampled :
SU-02-091720

Tot Ion:	84	Resp:	13422
Ion	Ratio	Lower	Upper
84	100		
49	137.2	110.7	166.1
51	46.5	32.9	49.3
86	66.9	51.1	76.7

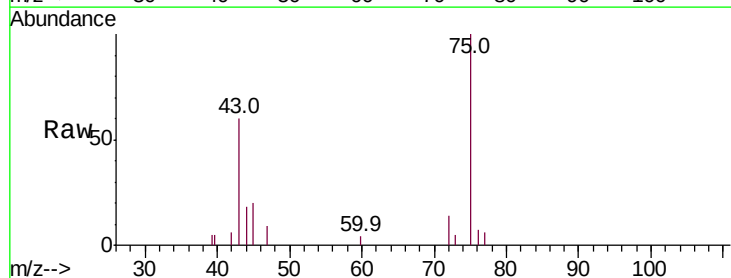


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

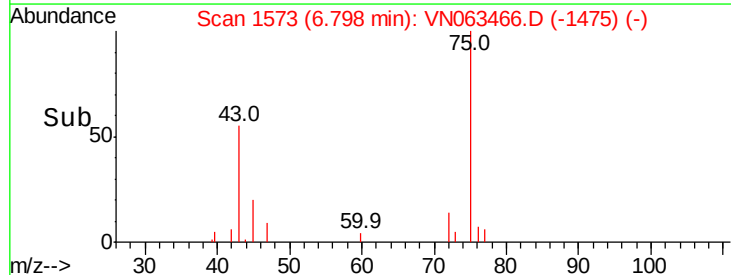
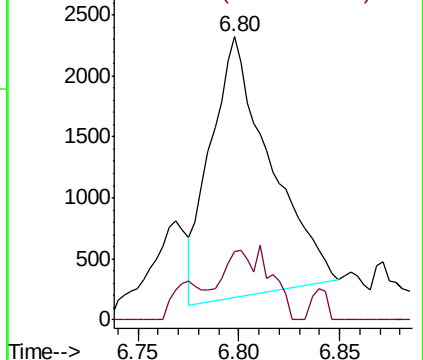


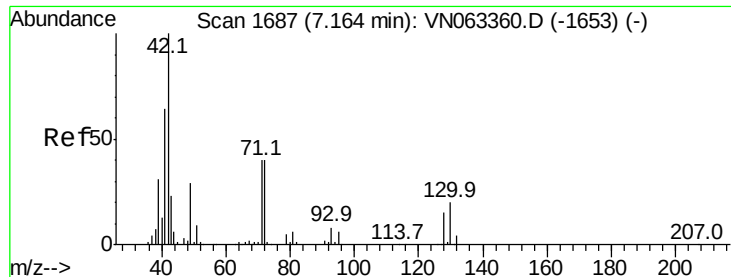
#25
2-Butanone
Concen: 2.241 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063466.D
Acq: 18 Sep 2020 18:37

Tgt Ion:	43	Resp:	4387
Ion	Ratio	Lower	Upper
43	100		
72	28.3	19.2	28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.400 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-091720

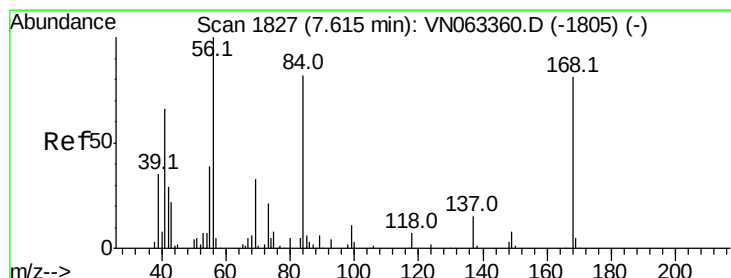
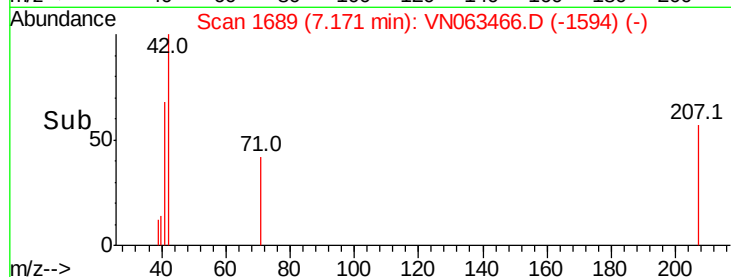
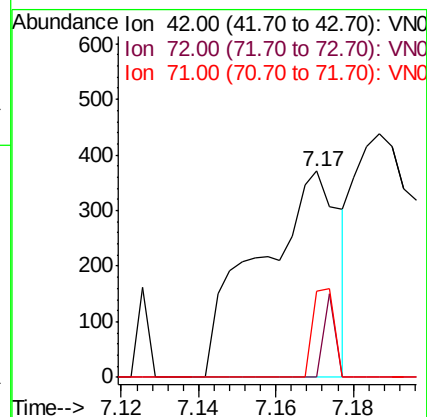
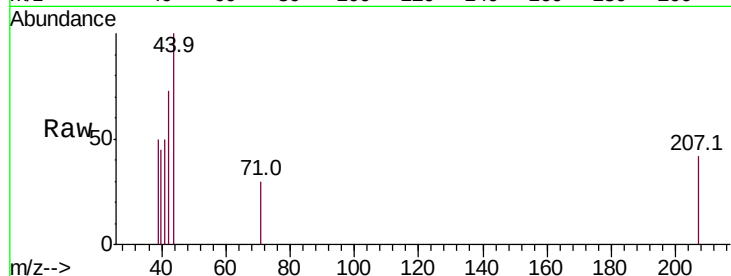
Tot Ion: 42 Resp: 535

Ion Ratio Lower Upper

42 100

72 5.4 32.1 48.1#

71 11.4 31.2 46.8#



#31

Cyclohexane

Concen: 1.247 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

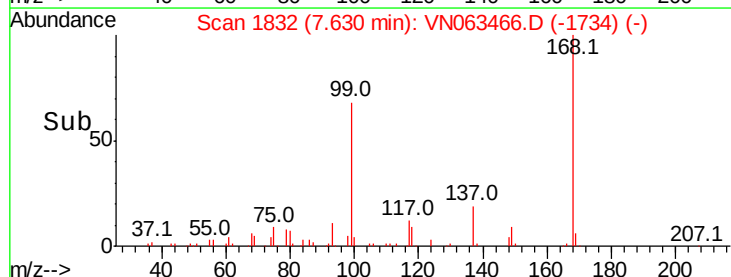
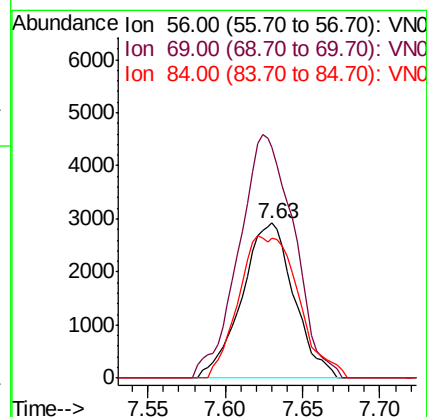
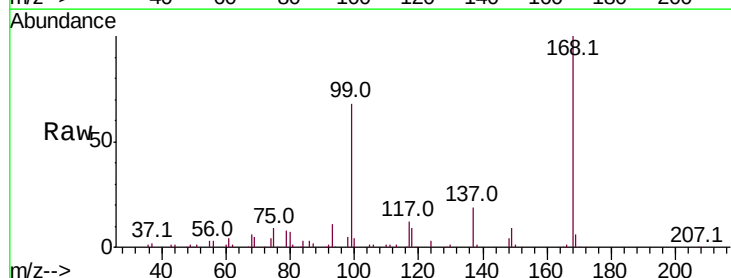
Tgt Ion: 56 Resp: 6819

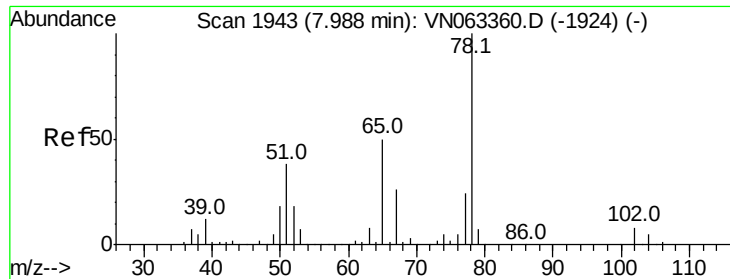
Ion Ratio Lower Upper

56 100

69 148.8 26.1 39.1#

84 90.2 65.4 98.2

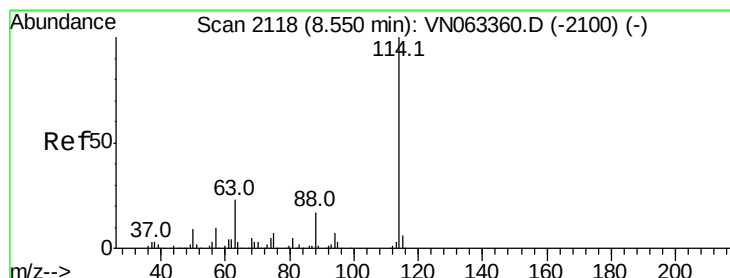
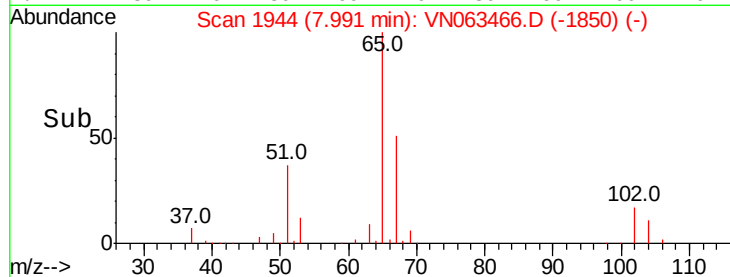
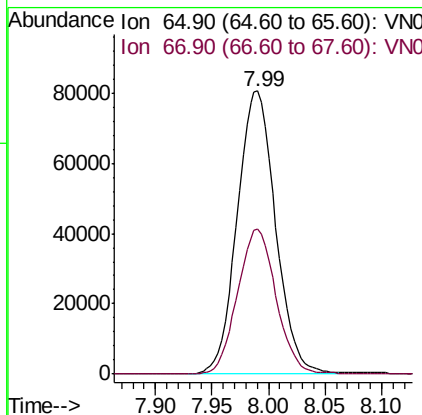
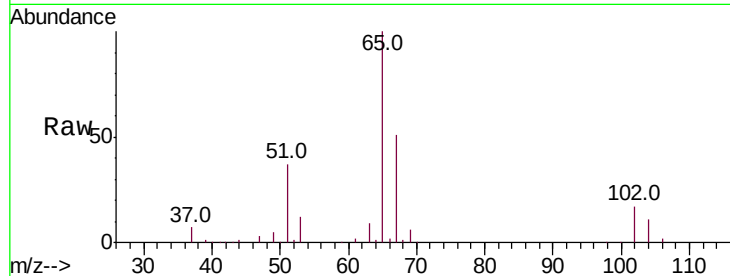




#33
 1,2-Dichloroethane-d4
 Concen: 48.029 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063466.D
 Acq: 18 Sep 2020 18:37

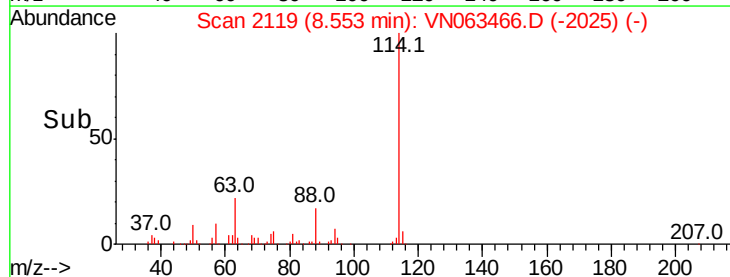
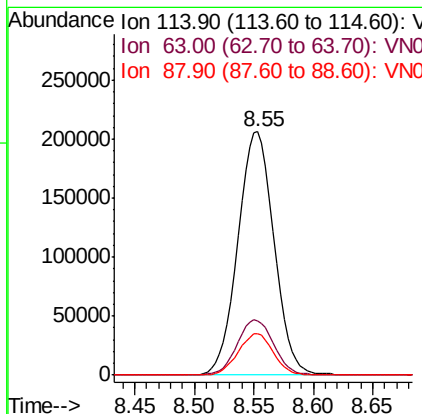
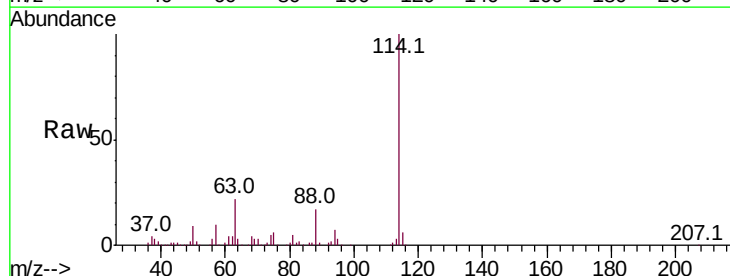
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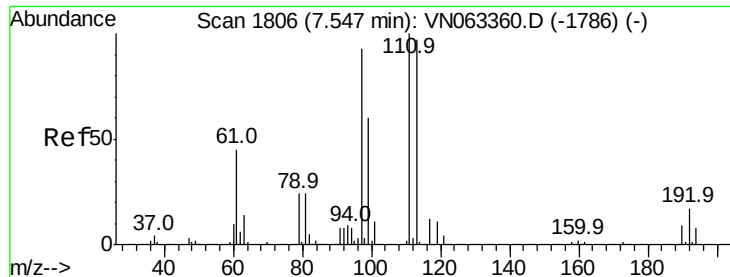
Tot Ion: 65 Resp: 190182
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063466.D
 Acq: 18 Sep 2020 18:37

Tgt Ion: 114 Resp: 434506
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 46.4
 88 17.1 0.0 33.2

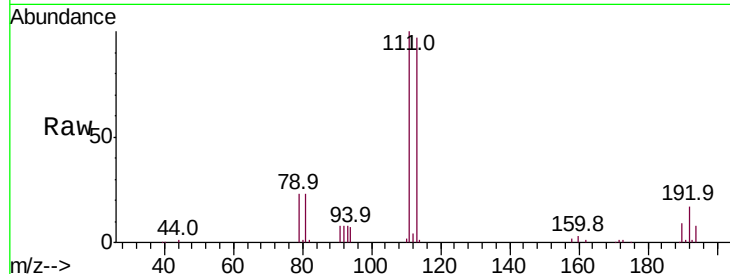




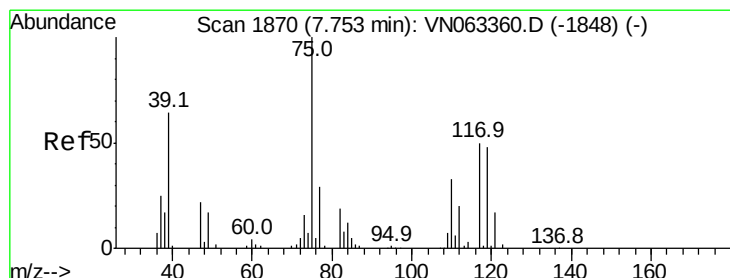
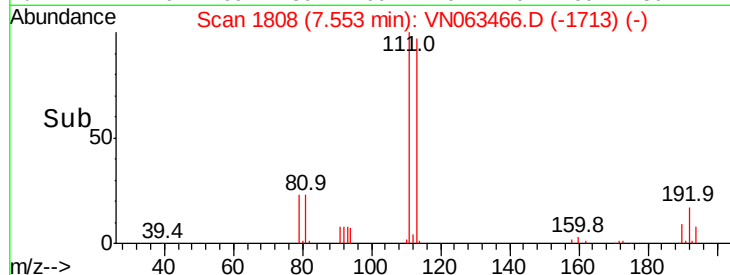
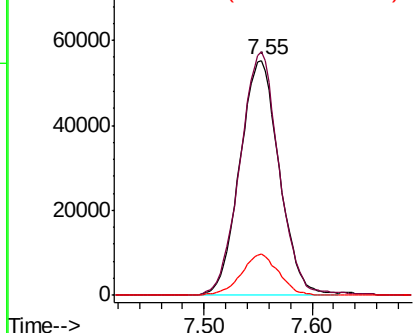
#35
 Dibromofluoromethane
 Concen: 46.750 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063466.D
 Acq: 18 Sep 2020 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-091720

Tot Ion:113 Resp: 140624
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.9 124.3
 192 16.7 13.9 20.9

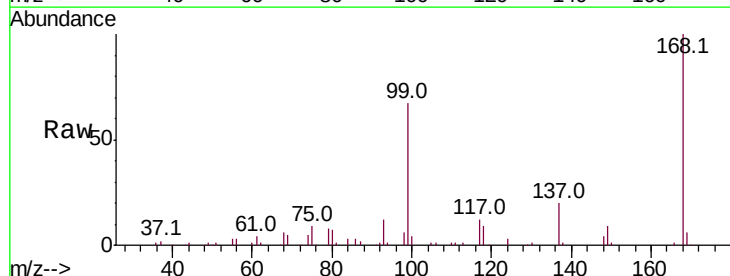


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

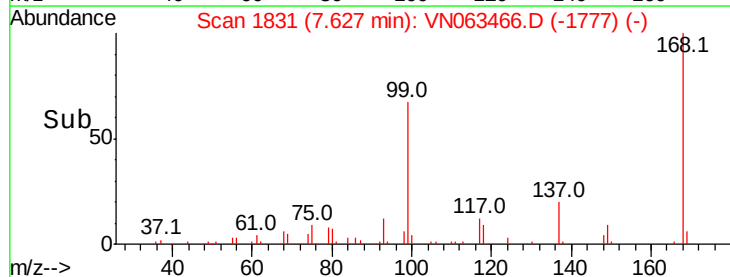
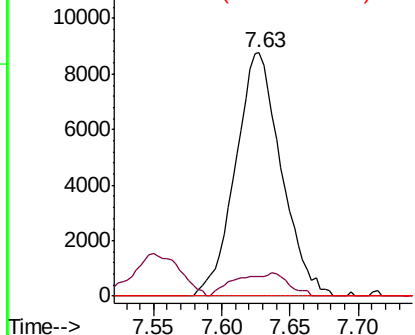


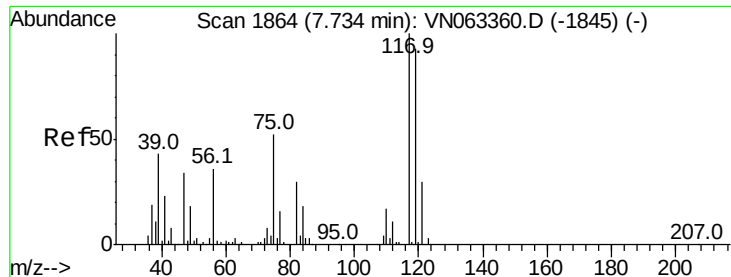
#36
 1,1-Dichloropropene
 Concen: 4.403 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063466.D
 Acq: 18 Sep 2020 18:37

Tgt Ion: 75 Resp: 20384
 Ion Ratio Lower Upper
 75 100
 110 6.3 16.5 49.5#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 5.653 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-091720

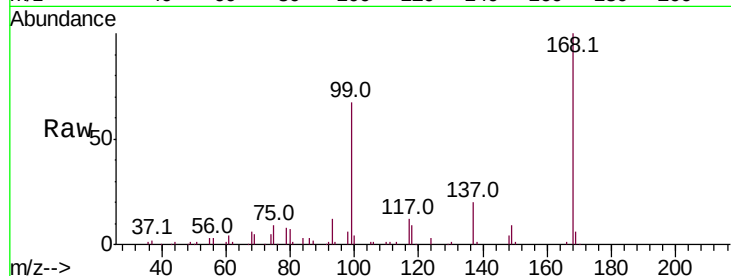
Tot Ion:117 Resp: 26711

Ion Ratio Lower Upper

117 100

119 3.7 74.5 111.7#

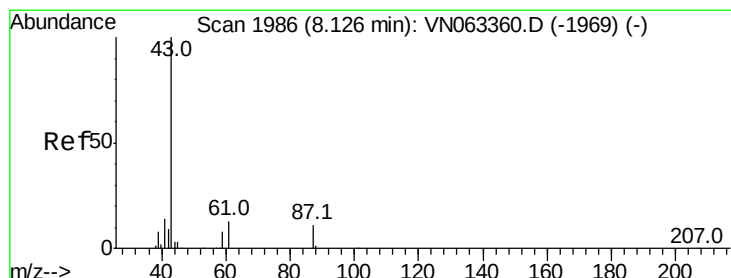
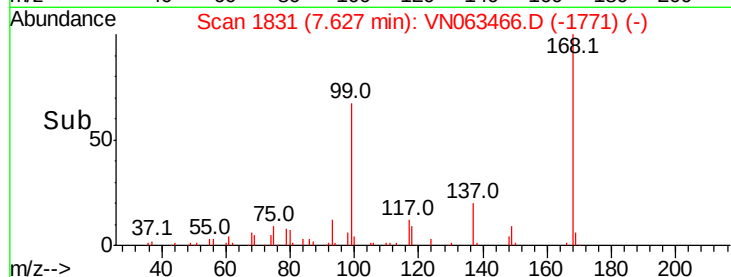
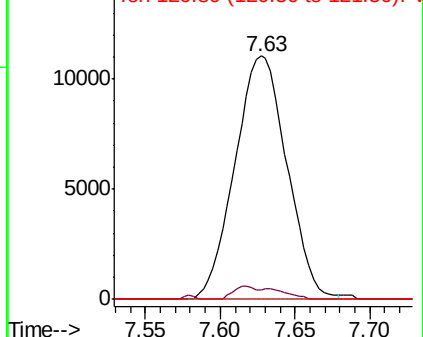
121 0.0 24.1 36.1#



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: 9.445 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

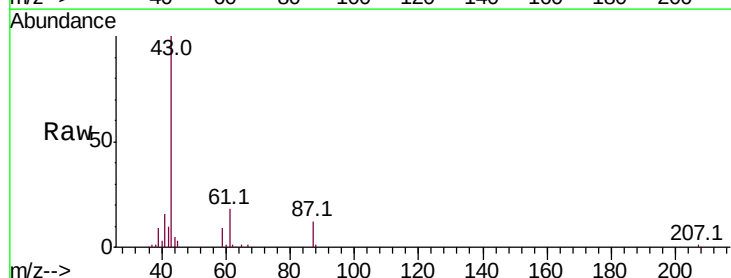
Tgt Ion: 43 Resp: 76730

Ion Ratio Lower Upper

43 100

61 17.2 14.2 21.2

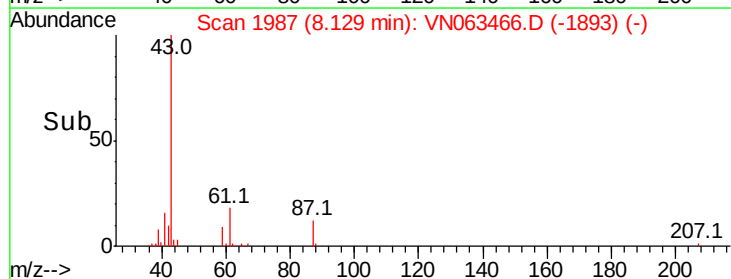
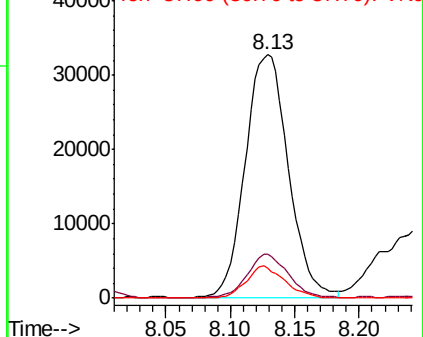
87 11.6 9.0 13.6

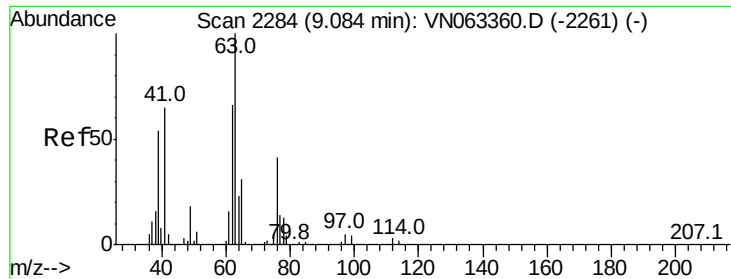


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.217 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

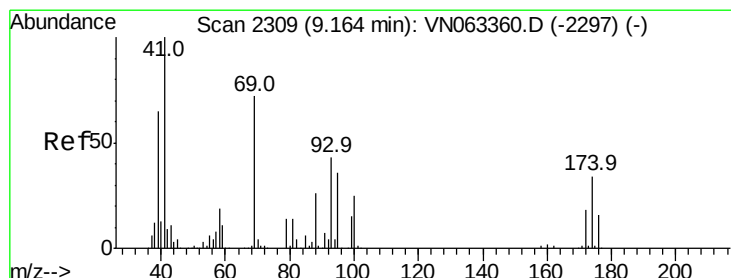
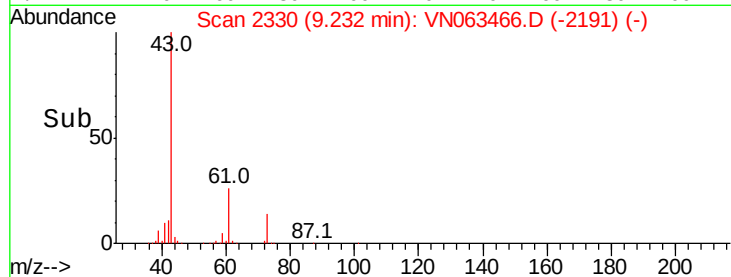
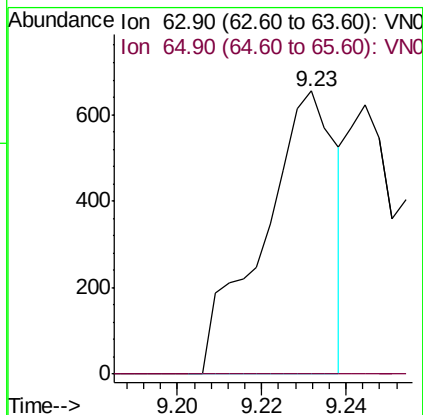
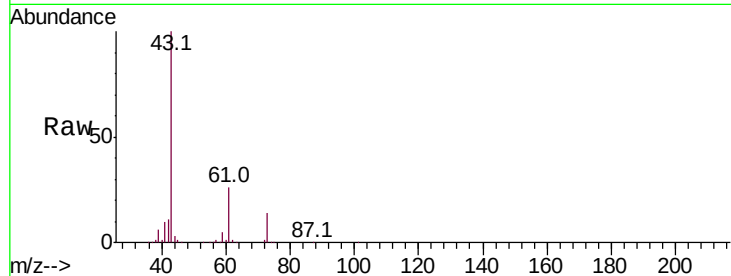
SU-02-091720

Tot Ion: 63 Resp: 780

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



#48

Methyl methacrylate

Concen: 1.239 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

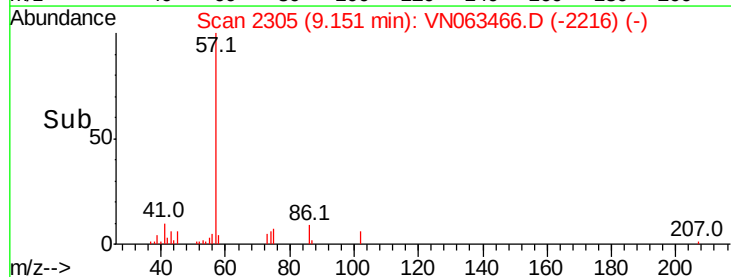
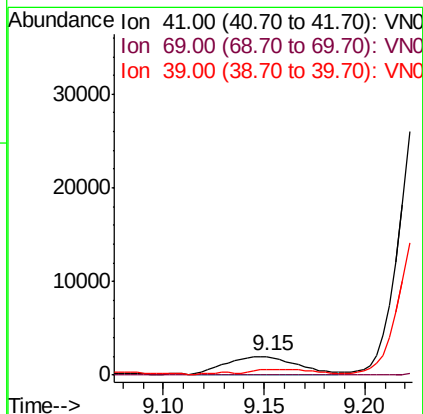
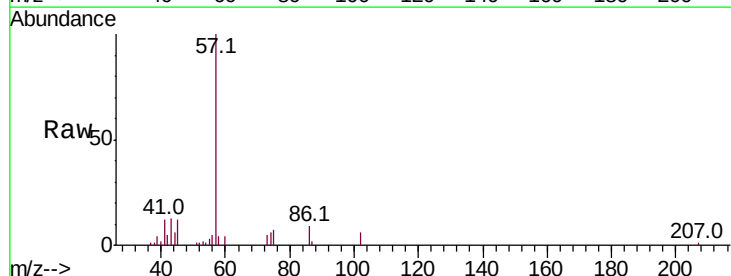
Tgt Ion: 41 Resp: 4946

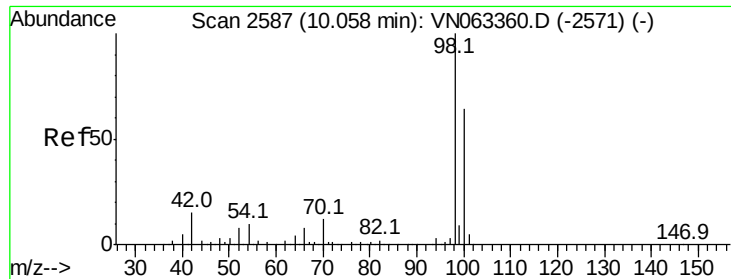
Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#





#50

Toluene-d8

Concen: 49.704 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

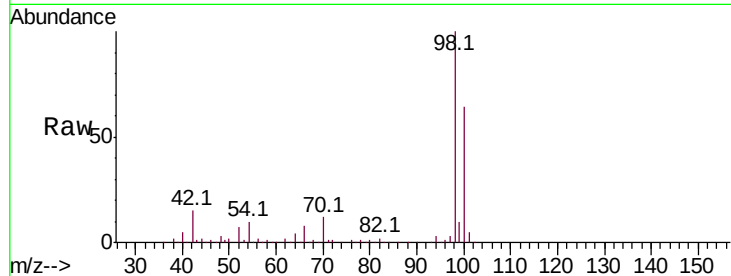
SU-02-091720

Tot Ion: 98 Resp: 562186

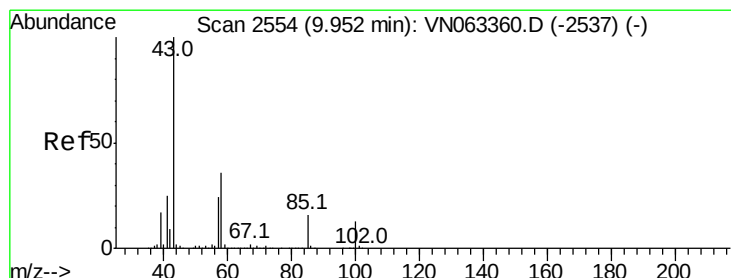
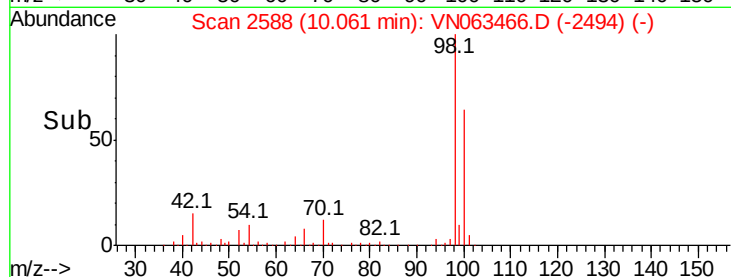
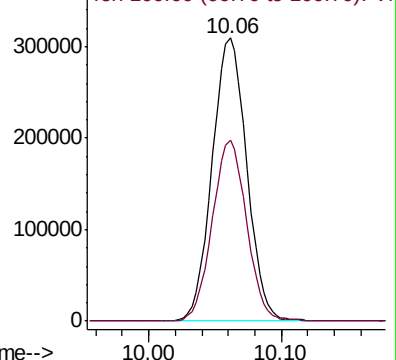
Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.214 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063466.D

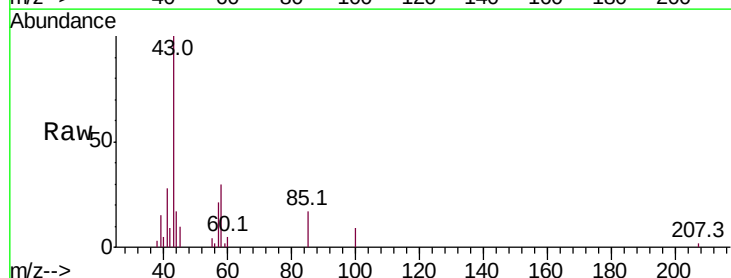
Acq: 18 Sep 2020 18:37

Tgt Ion: 43 Resp: 10070

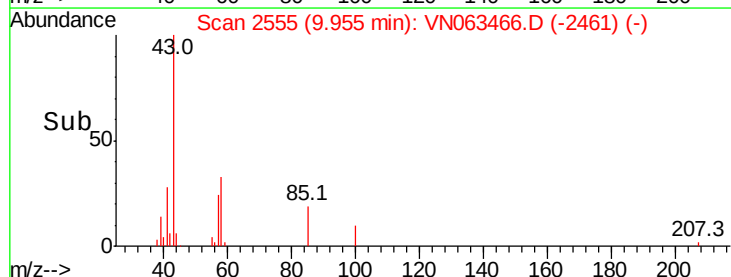
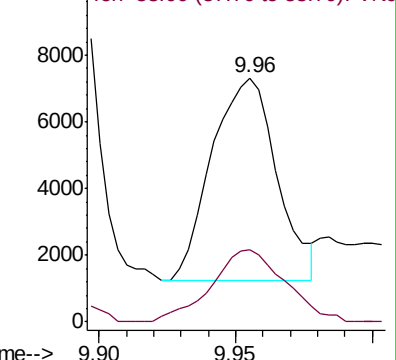
Ion Ratio Lower Upper

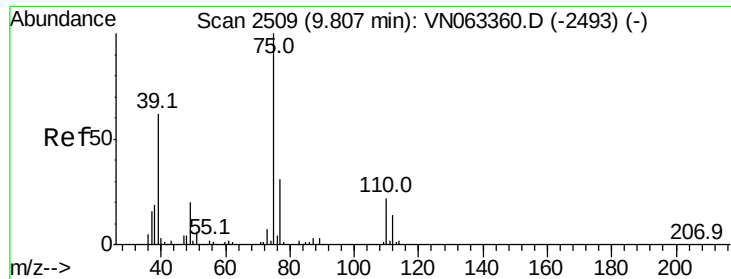
43 100

58 40.3 29.0 43.6



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





#54

cis-1,3-Dichloropropene

Concen: 5.661 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-091720

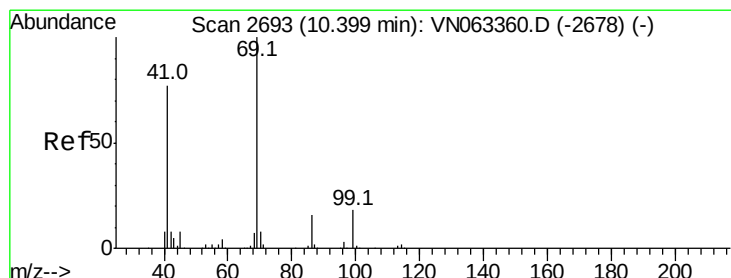
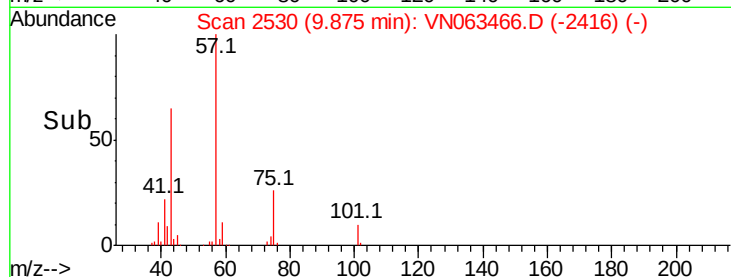
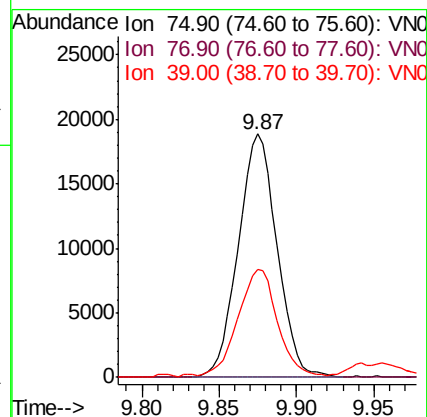
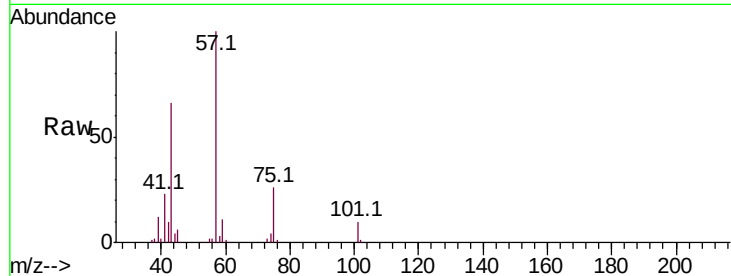
Tot Ion: 75 Resp: 32760

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 43.6 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.253 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

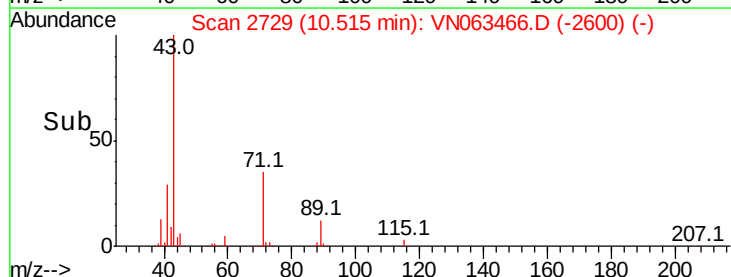
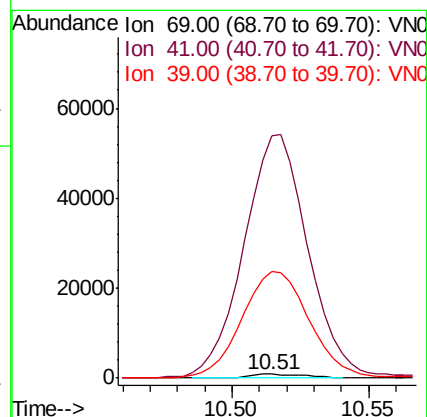
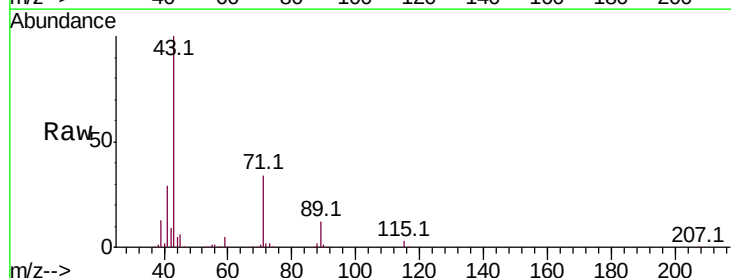
Tgt Ion: 69 Resp: 1248

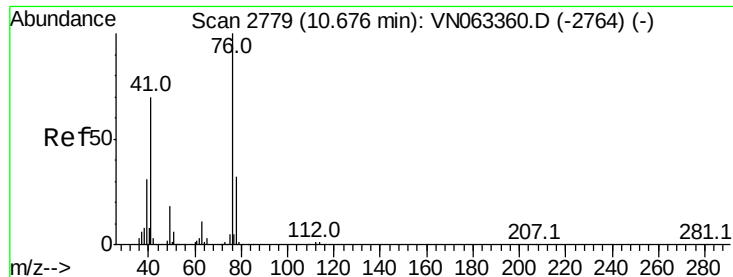
Ion Ratio Lower Upper

69 100

41 7142.4 61.0 91.6#

39 3283.0 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 0.791 ug/l

RT: 10.74 min Scan# 2800

Delta R.T. 0.07 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

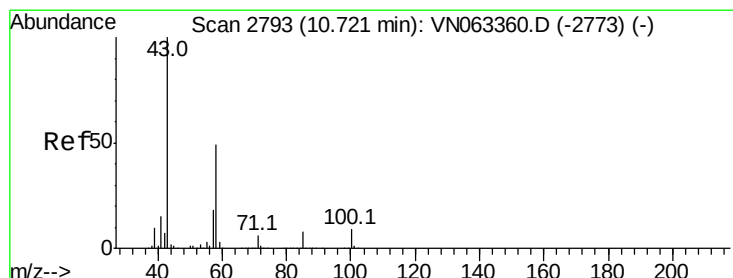
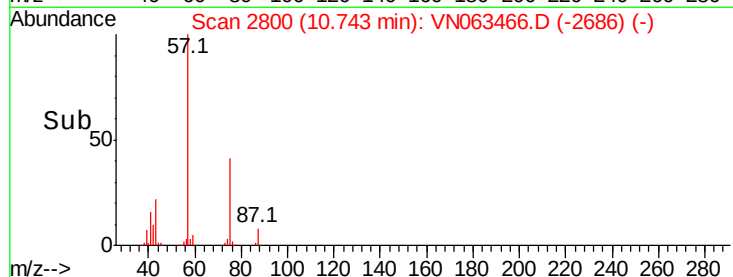
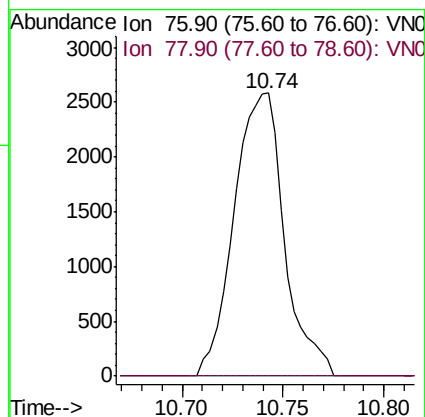
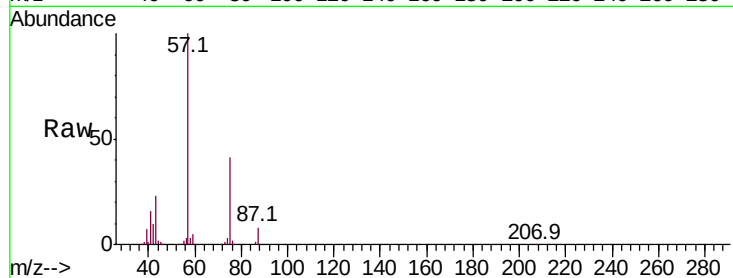
SU-02-091720

Tot Ion: 76 Resp: 4503

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 20.145 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063466.D

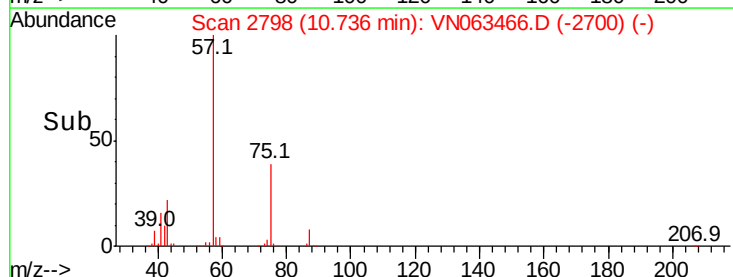
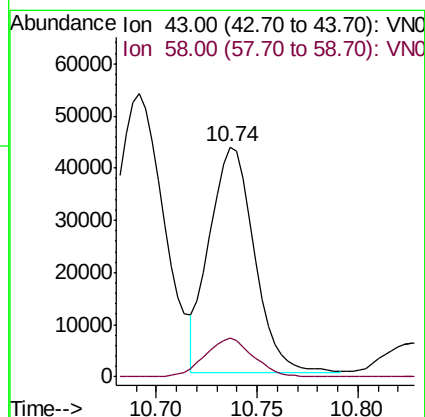
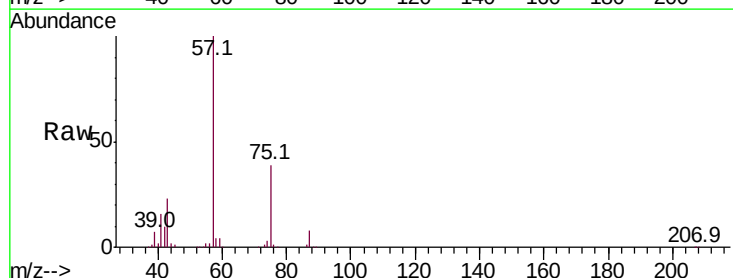
Acq: 18 Sep 2020 18:37

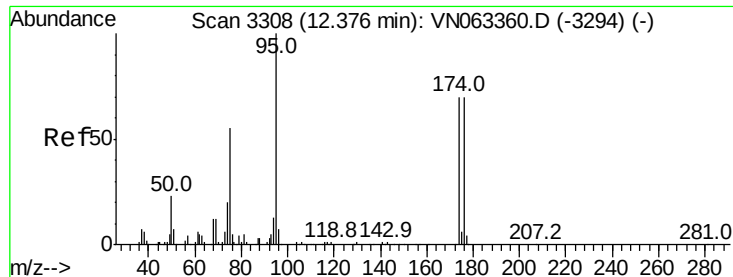
Tgt Ion: 43 Resp: 66374

Ion Ratio Lower Upper

43 100

58 18.5 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.330 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

SU-02-091720

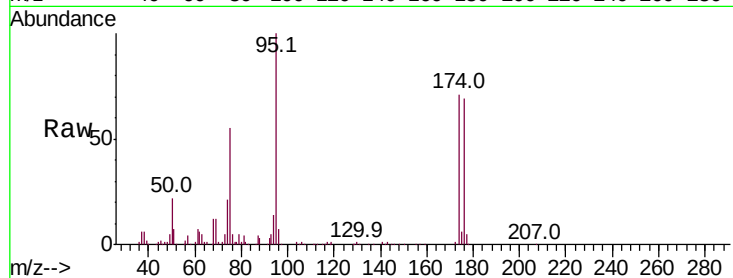
Tot Ion: 95 Resp: 225266

Ion Ratio Lower Upper

95 100

174 71.2 0.0 140.8

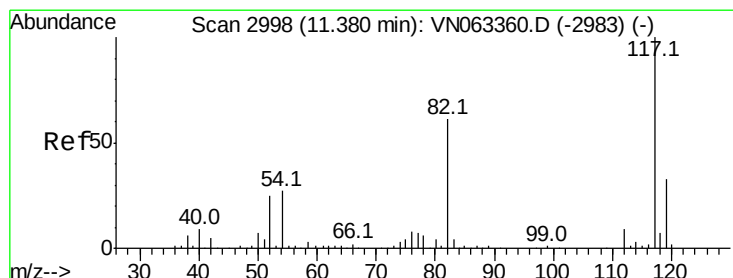
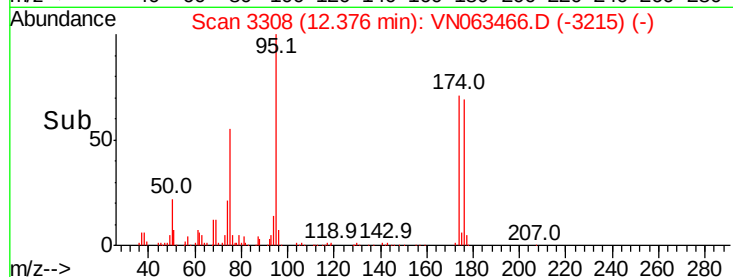
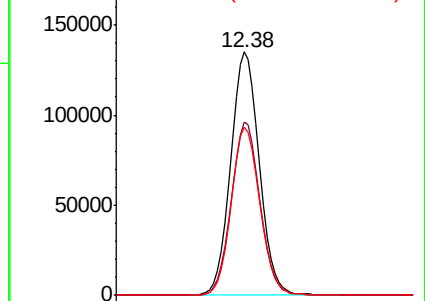
176 69.1 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

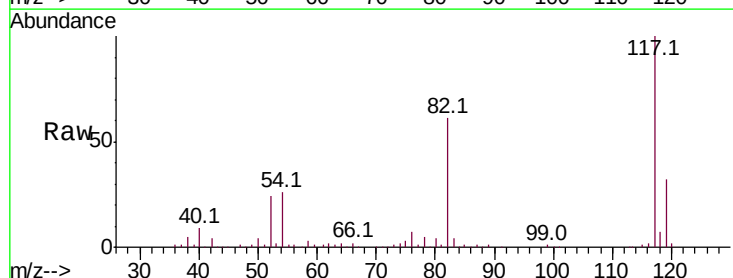
Tgt Ion: 117 Resp: 441906

Ion Ratio Lower Upper

117 100

82 60.9 49.2 73.8

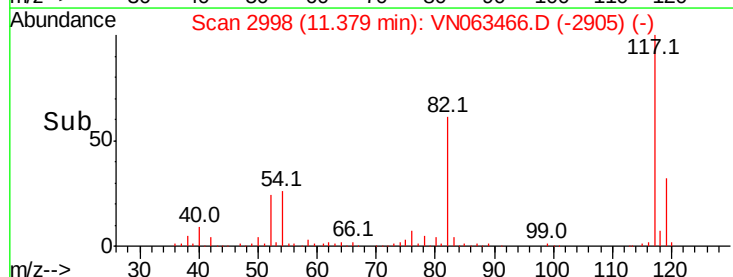
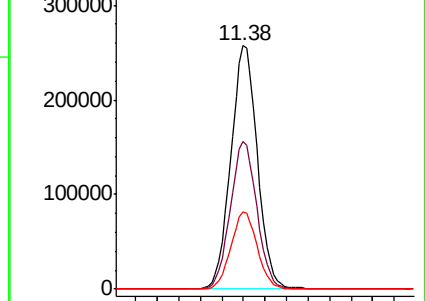
119 31.7 26.2 39.4

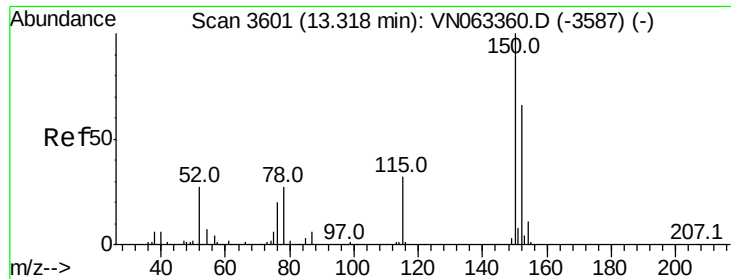


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063360.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063360.D (-2983) (-)

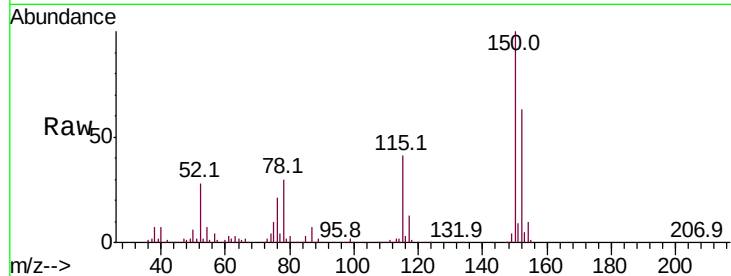




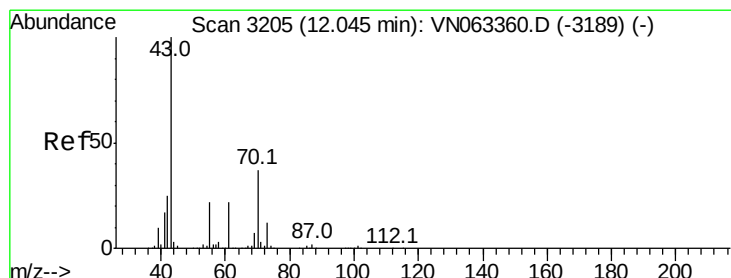
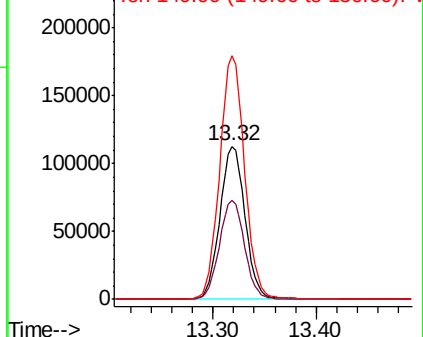
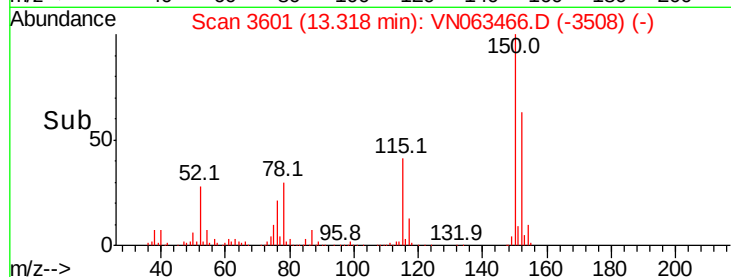
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VN063466.D
 Acq: 18 Sep 2020 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-091720

Tot Ion:152 Resp: 191254
 Ion Ratio Lower Upper
 152 100
 115 64.7 32.2 96.6
 150 157.4 0.0 343.4

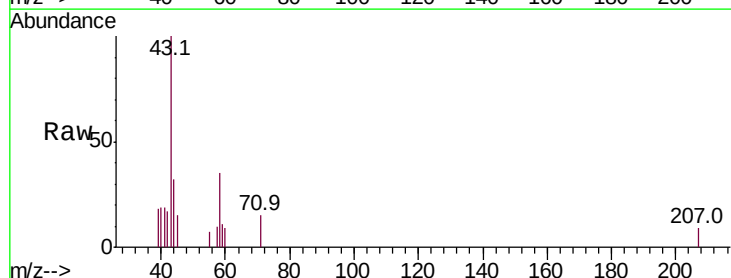


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

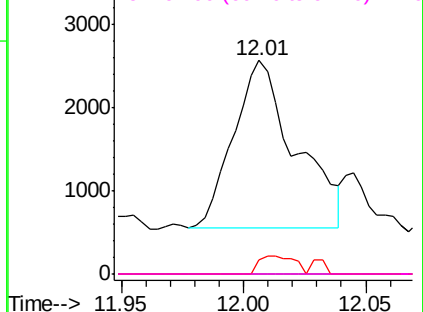
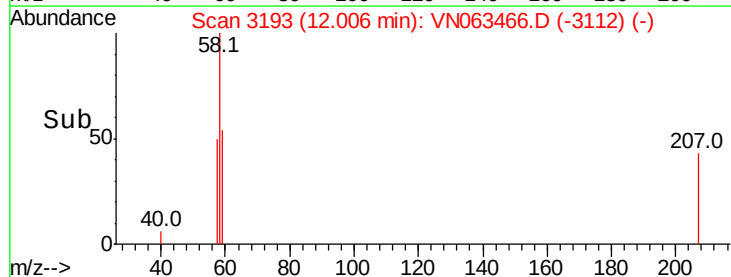


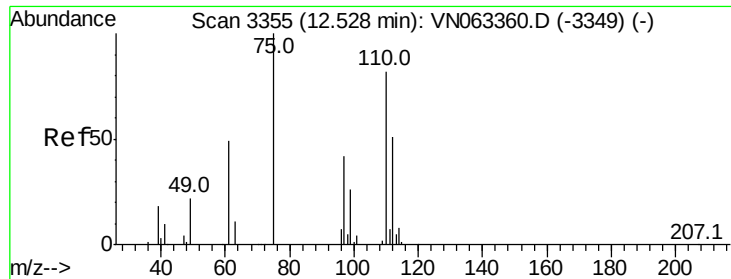
#74
 N-ethyl acetate
 Concen: 0.484 ug/l
 RT: 12.01 min Scan# 3193
 Delta R.T. -0.04 min
 Lab File: VN063466.D
 Acq: 18 Sep 2020 18:37

Tgt Ion: 43 Resp: 3511
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.6 44.4#
 55 6.2 17.7 26.5#
 61 0.0 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN
 Ion 70.00 (69.70 to 70.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 61.00 (60.70 to 61.70): VN





#76

1,2,3-Trichloropropane

Concen: 26.399 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

Instrument :

MSVOA_N

ClientSampleId :

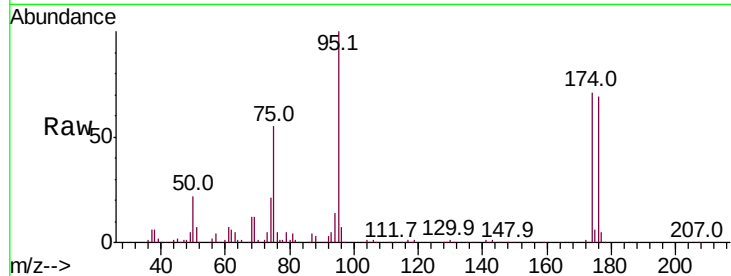
SU-02-091720

Tot Ion: 75 Resp: 124969

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.38

80000

60000

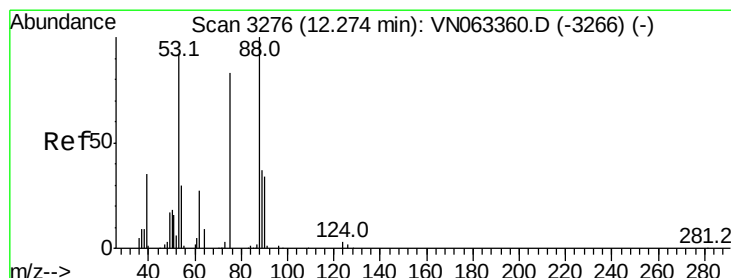
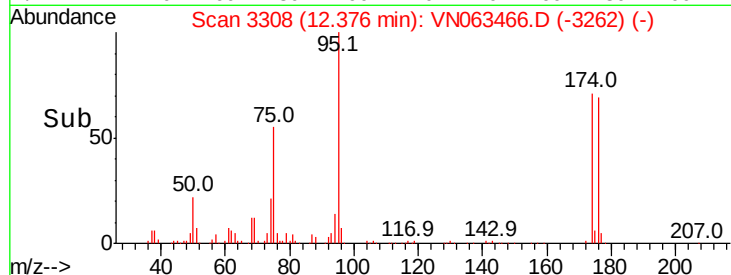
40000

20000

0

Time-->

12.30 12.40



#81

trans-1,4-Dichloro-2-butene

Concen: 72.377 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063466.D

Acq: 18 Sep 2020 18:37

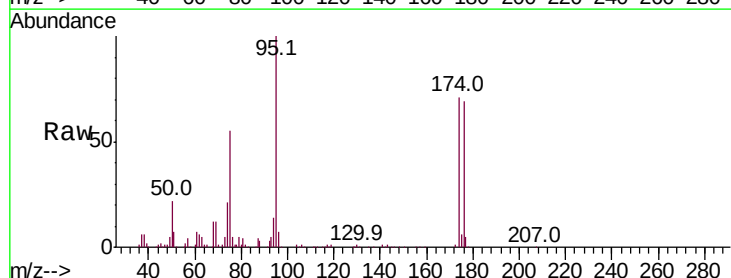
Tgt Ion: 75 Resp: 124969

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.1 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

100000

80000

60000

40000

20000

0

Time-->

12.30 12.40

