

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063662.D
 Acq On : 25 Sep 2020 5:49
 Operator : JC/MD
 Sample : L3871-28
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-092320

Quant Time: Sep 25 06:20:30 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	197805	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	382709	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	384883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161271	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	171920	51.06	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.12%		
35) Dibromofluoromethane	7.55	113	124778	47.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.20%		
50) Toluene-d8	10.06	98	491287	49.31	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.62%		
62) 4-Bromofluorobenzene	12.38	95	188490	51.61	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.22%		

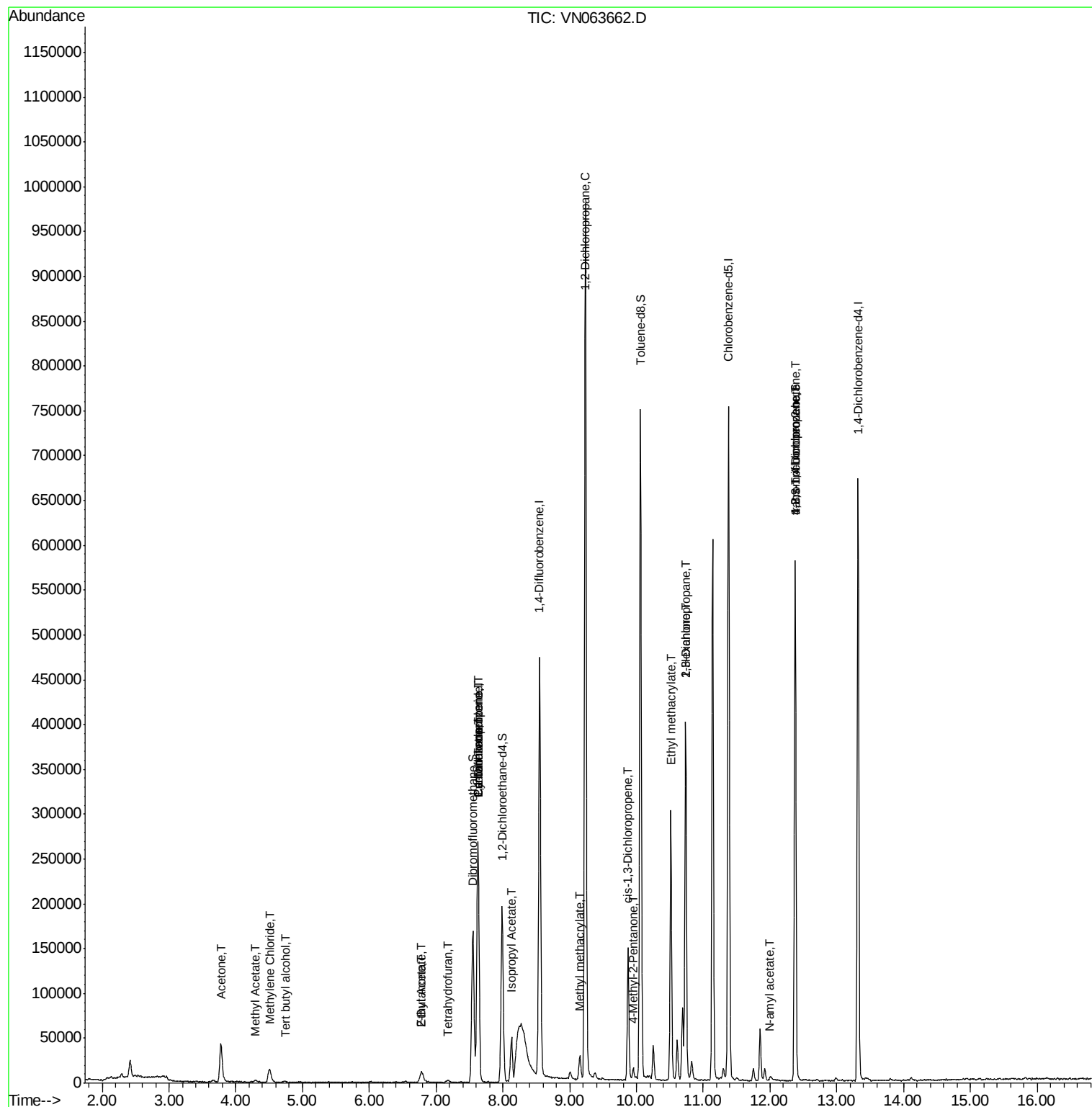
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	220	0.472	ug/l #	72
16) Acetone	3.78	43	76362	70.565	ug/l	99
18) Methyl Acetate	4.29	43	2406	0.876	ug/l #	80
20) Methylene Chloride	4.51	84	10691	3.899	ug/l	86
25) 2-Butanone	6.79	43	12444	7.477	ug/l	94
29) Tetrahydrofuran	7.16	42	784	0.690	ug/l #	81
31) Cyclohexane	7.62	56	6086	1.309	ug/l #	43
36) 1,1-Dichloropropene	7.63	75	18585	4.558	ug/l #	44
37) Ethyl Acetate	6.79	43	12444	3.110	ug/l #	73
38) Carbon Tetrachloride	7.62	117	21889	5.259	ug/l #	18
43) Isopropyl Acetate	8.13	43	60097	8.399	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1156	0.365	ug/l #	43
48) Methyl methacrylate	9.14	41	4494	1.278	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	8470	2.114	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	22939	4.501	ug/l #	71
56) Ethyl methacrylate	10.52	69	1691	0.390	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3862	0.770	ug/l #	42
59) 2-Hexanone	10.74	43	64644	22.275	ug/l #	57
74) N-amyl acetate	12.00	43	1872	0.306	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	107881	27.026	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107881	74.096	ug/l #	7

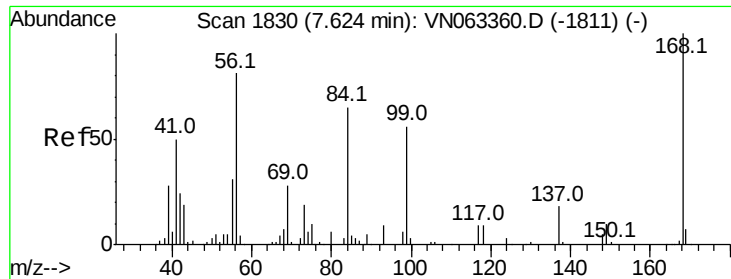
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

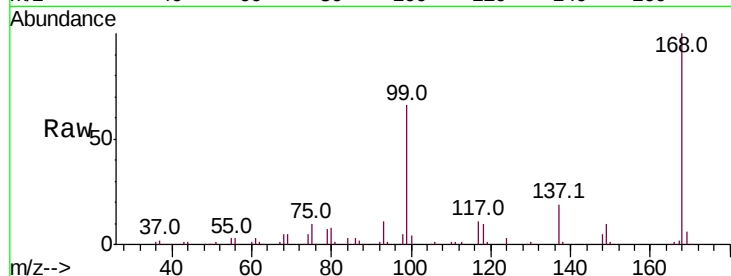
TR-04-092320

Tot Ion:168 Resp: 197805

Ion Ratio Lower Upper

168 100

99 66.2 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

80000

60000

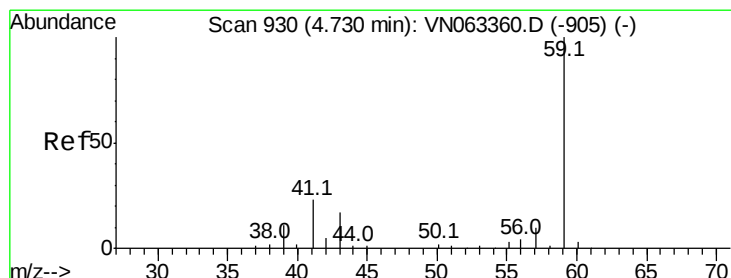
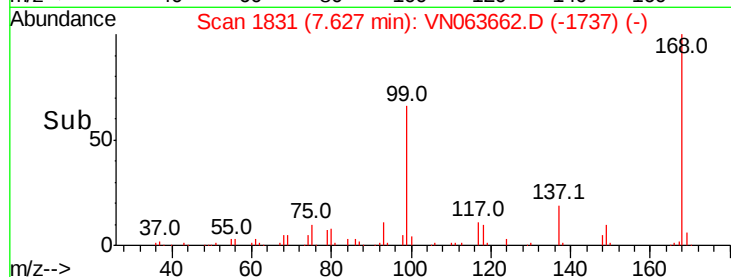
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.472 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.02 min

Lab File: VN063662.D

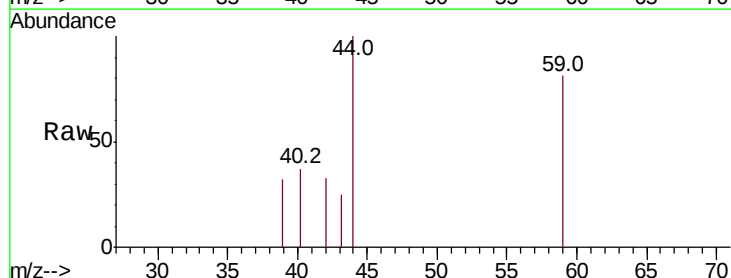
Acq: 25 Sep 2020 5:49

Tgt Ion: 59 Resp: 220

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) (-)

4.75

600

500

400

300

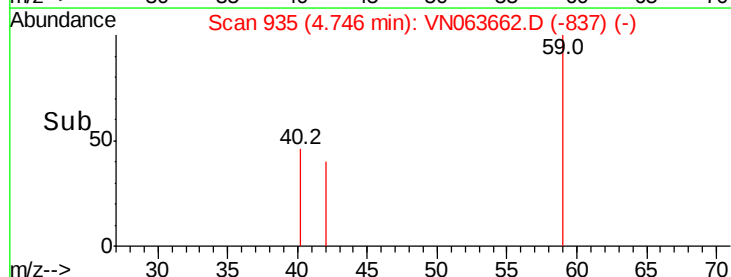
200

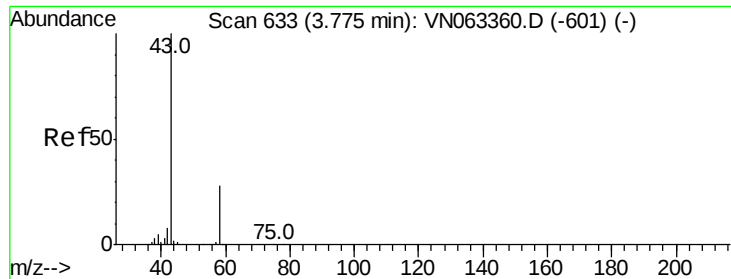
100

0

4.73 4.74 4.75 4.76 4.77

Time-->





#16

Acetone

Concen: 70.565 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

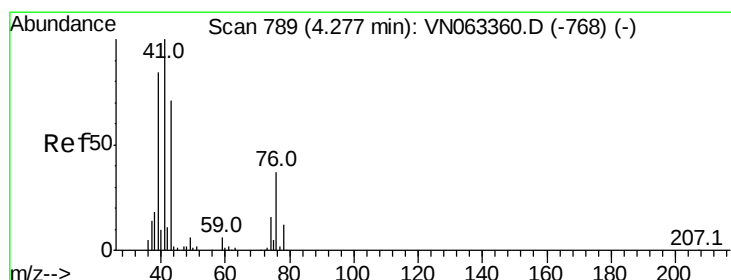
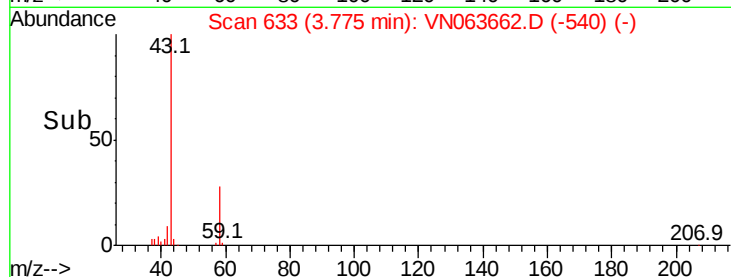
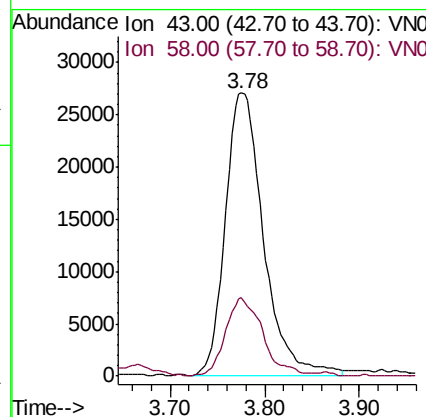
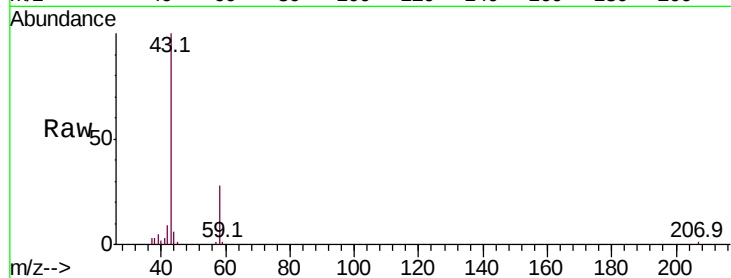
TR-04-092320

Tot Ion: 43 Resp: 76362

Ion Ratio Lower Upper

43 100

58 27.6 22.3 33.5



#18

Methyl Acetate

Concen: 0.876 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063662.D

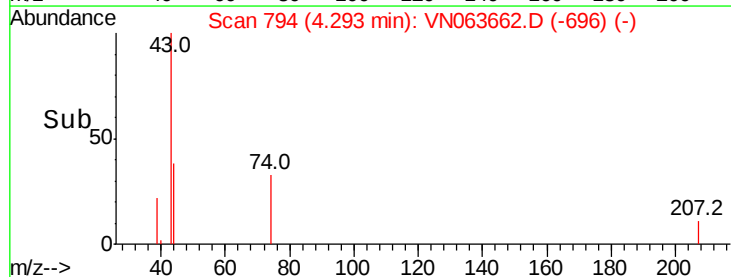
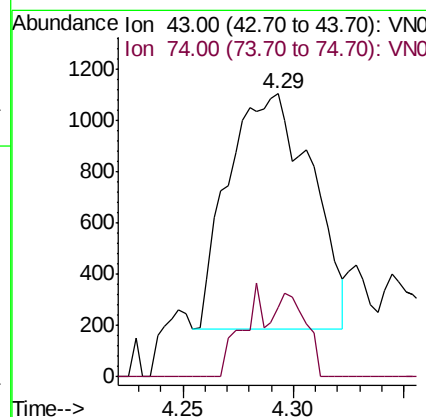
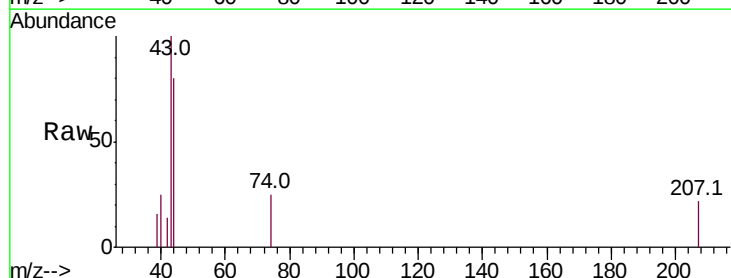
Acq: 25 Sep 2020 5:49

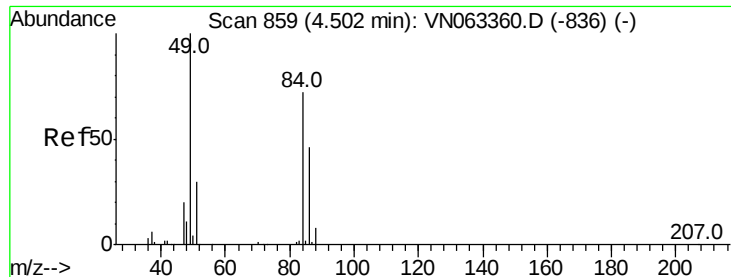
Tgt Ion: 43 Resp: 2406

Ion Ratio Lower Upper

43 100

74 12.5 17.4 26.2#





#20

Methylene Chloride

Concen: 3.899 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampled :

TR-04-092320

Tot Ion: 84 Resp: 10691

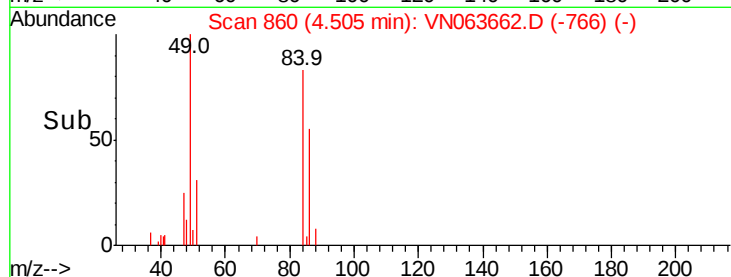
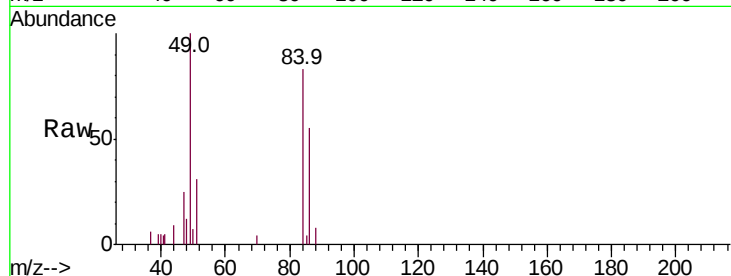
Ion Ratio Lower Upper

84 100

49 112.9 110.7 166.1

51 37.3 32.9 49.3

86 65.7 51.1 76.7

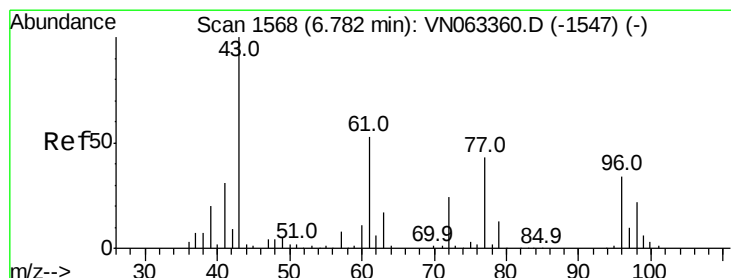
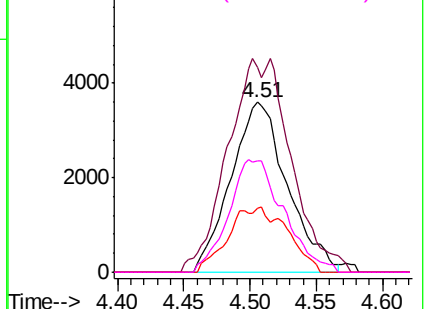


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 7.477 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN063662.D

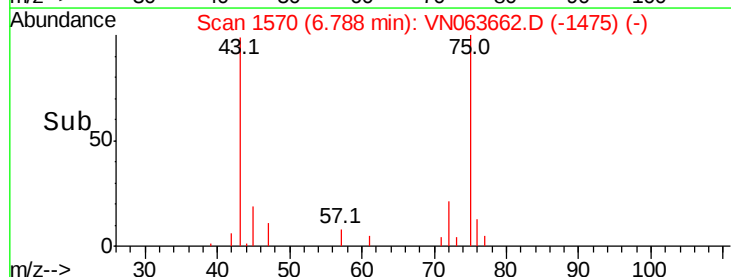
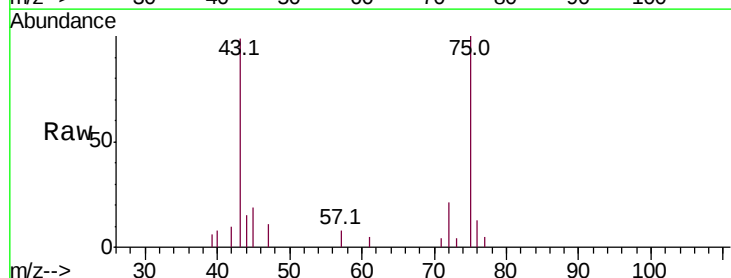
Acq: 25 Sep 2020 5:49

Tgt Ion: 43 Resp: 12444

Ion Ratio Lower Upper

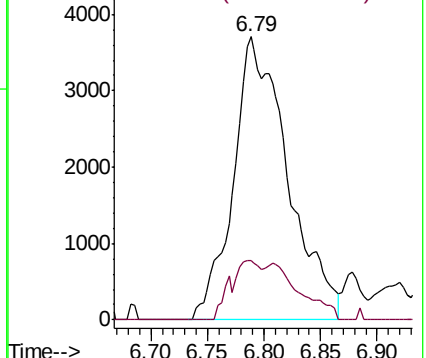
43 100

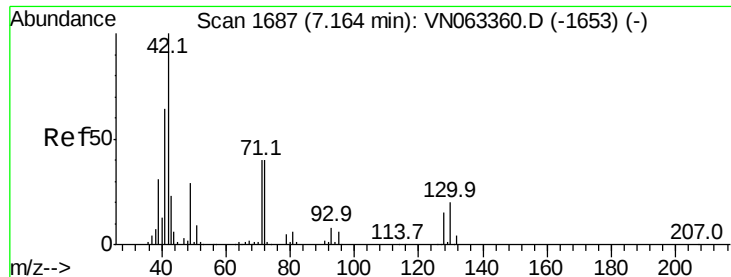
72 20.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.690 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampled :

TR-04-092320

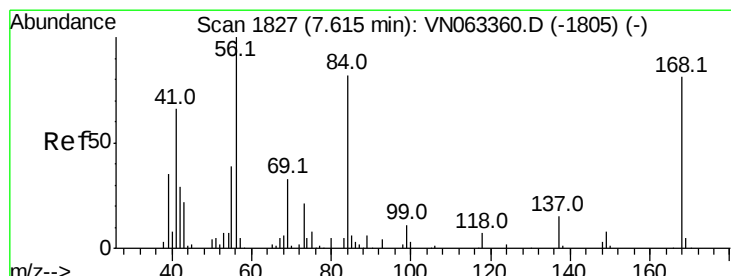
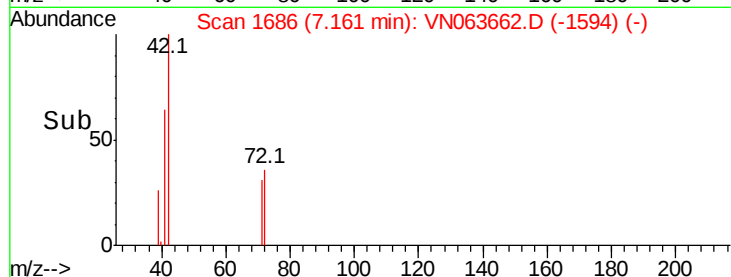
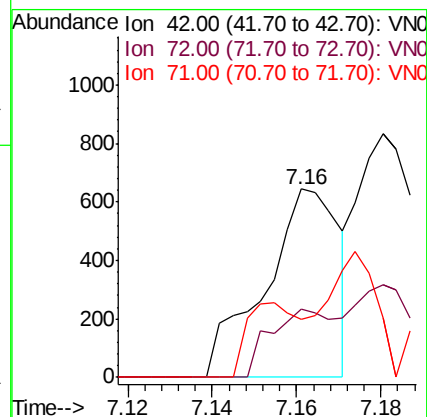
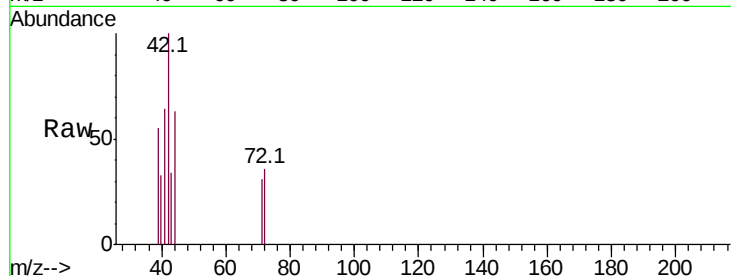
Tot Ion: 42 Resp: 784

Ion Ratio Lower Upper

42 100

72 28.2 32.1 48.1#

71 27.8 31.2 46.8#



#31

Cyclohexane

Concen: 1.309 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

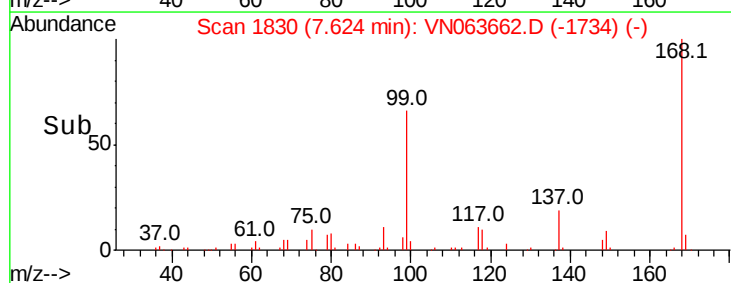
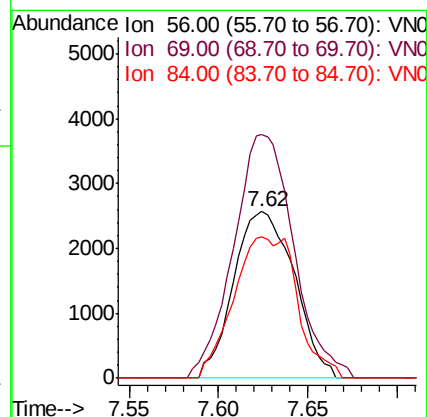
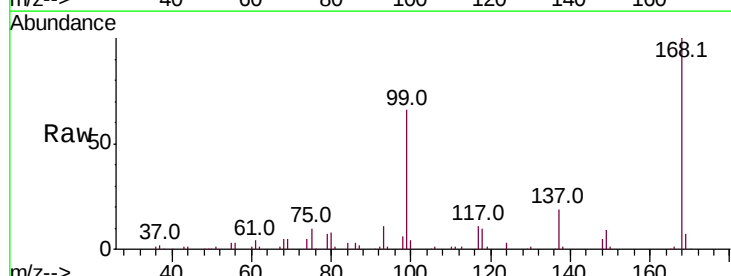
Tgt Ion: 56 Resp: 6086

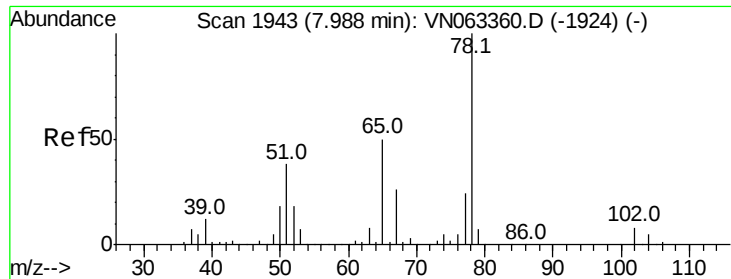
Ion Ratio Lower Upper

56 100

69 140.6 26.1 39.1#

84 84.6 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 51.058 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

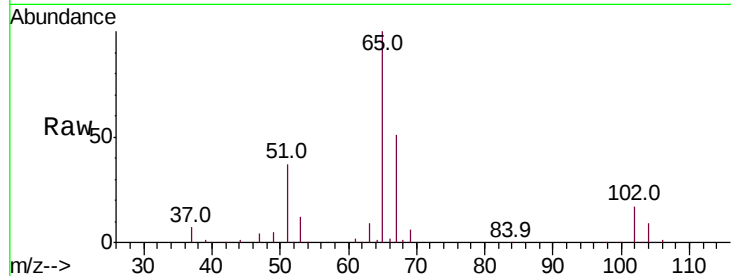
Instrument :
MSVOA_N
ClientSampleId :
TR-04-092320

Tot Ion: 65 Resp: 171920

Ion Ratio Lower Upper

65 100

67 49.5 0.0 104.2

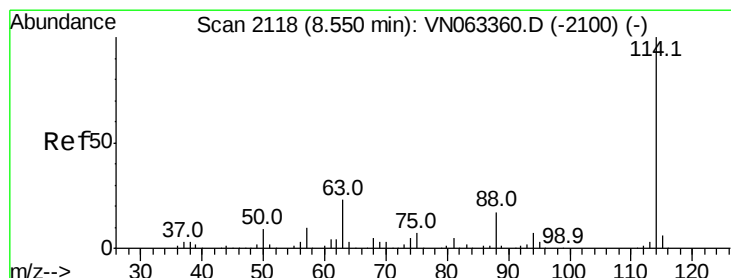
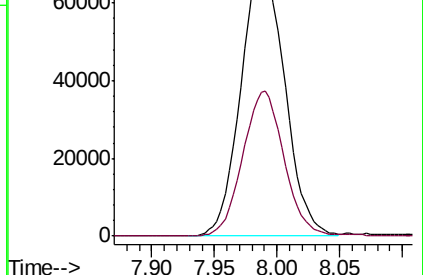
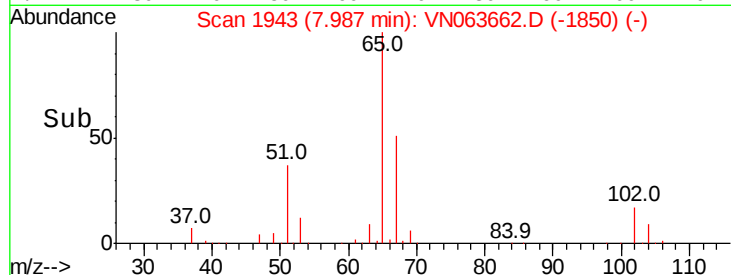


Abundance Ion 64.90 (64.60 to 65.60): VN063662.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063662.D (-1924) (-)

7.99

8.05



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

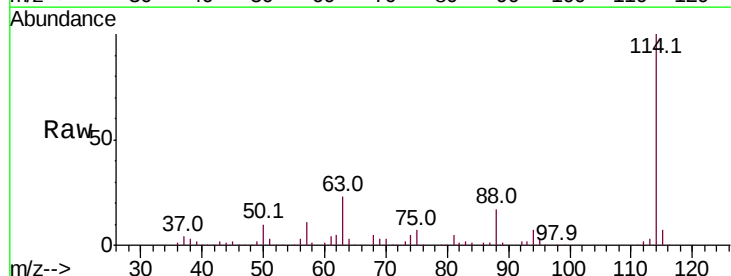
Tgt Ion: 114 Resp: 382709

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.4

88 16.9 0.0 33.2



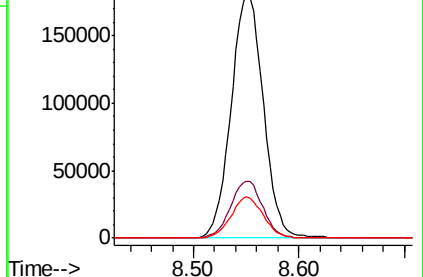
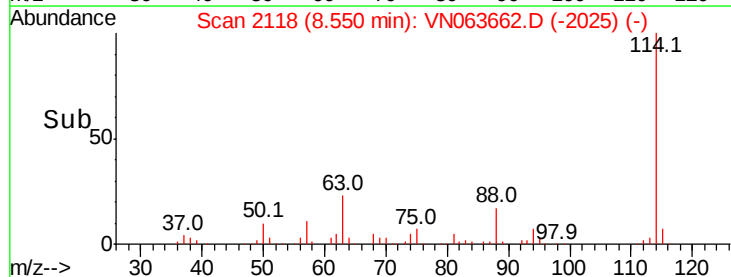
Abundance Ion 113.90 (113.60 to 114.60): VN063662.D (-2100) (-)

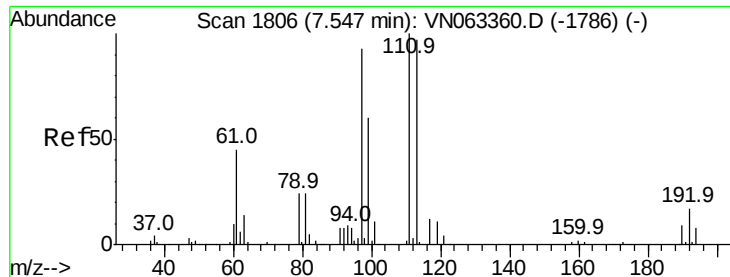
Ion 63.00 (62.70 to 63.70): VN063662.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063662.D (-2100) (-)

8.55

8.60

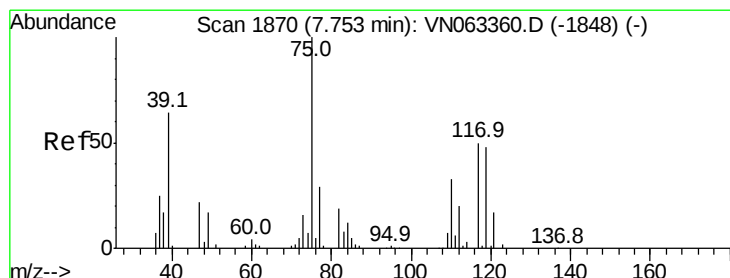
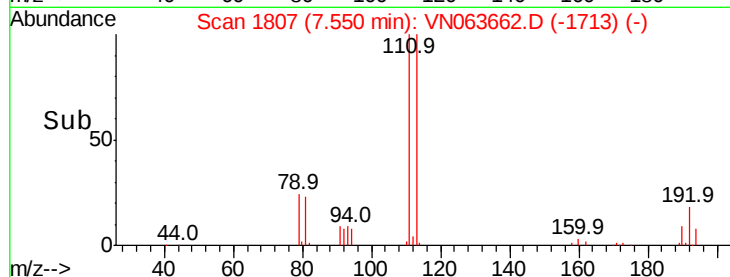
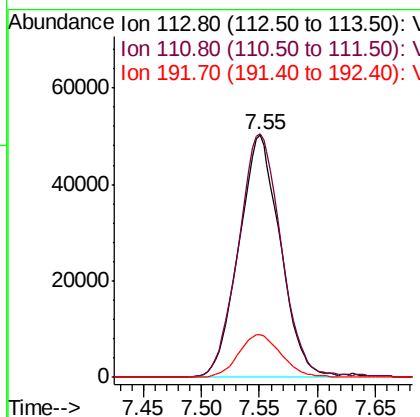
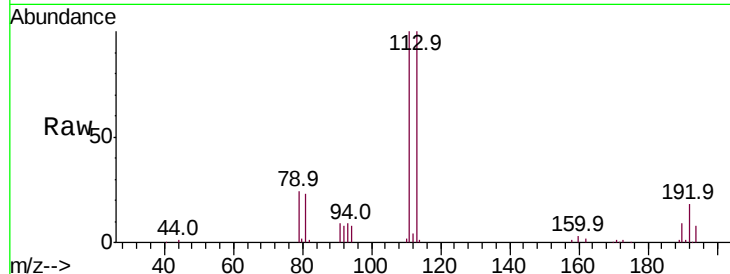




#35
 Dibromofluoromethane
 Concen: 47.096 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063662.D
 Acq: 25 Sep 2020 5:49

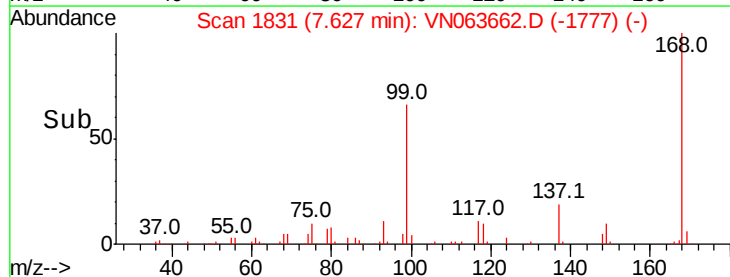
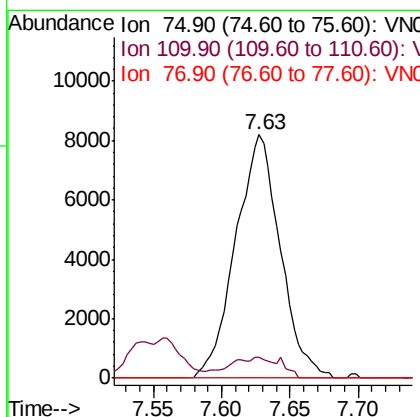
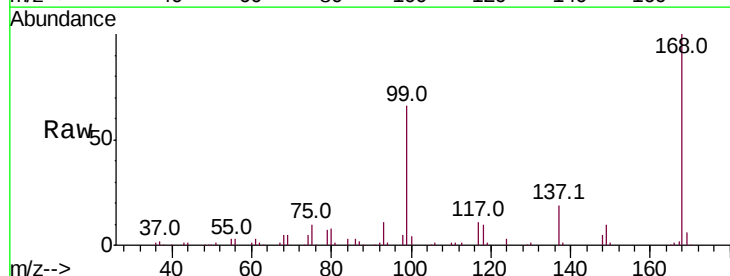
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-04-092320

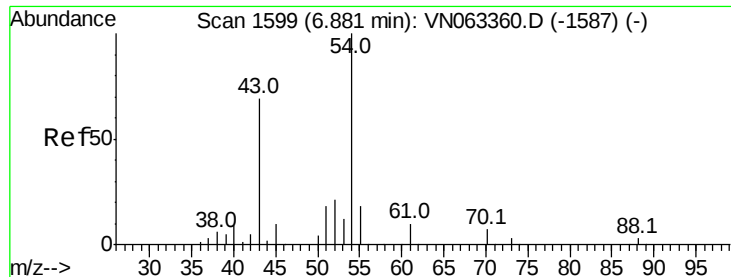
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.9	124.3
192	18.1	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.558 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063662.D
 Acq: 25 Sep 2020 5:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	1.5	16.5	49.5#
77	0.0	24.6	36.8#

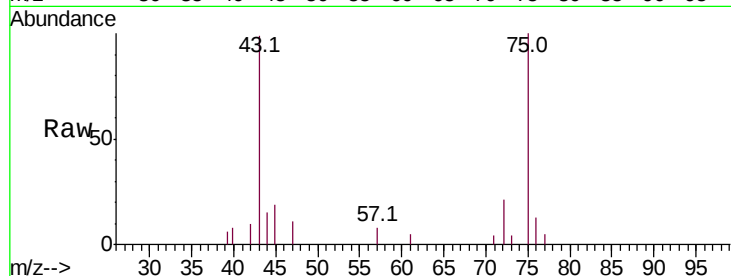




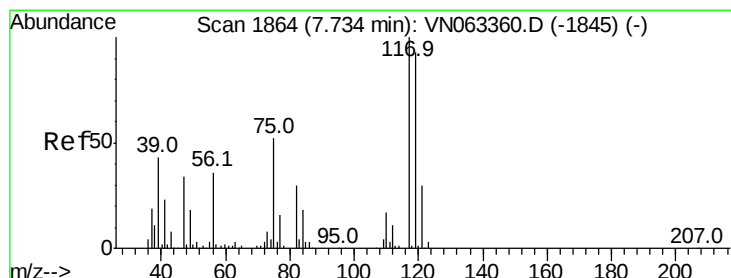
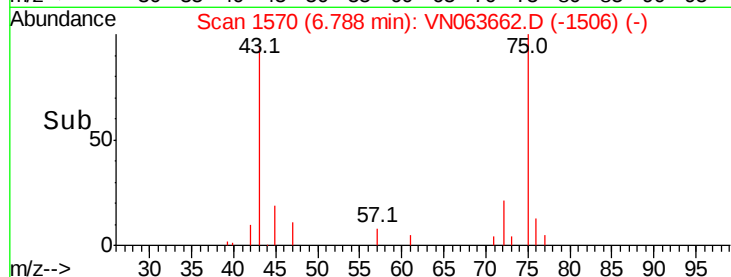
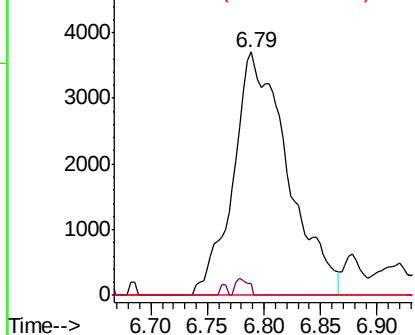
#37
Ethyl Acetate
Concen: 3.110 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. -0.09 min
Lab File: VN063662.D
Acq: 25 Sep 2020 5:49

Instrument :
MSVOA_N
ClientSampleId :
TR-04-092320

Tot Ion: 43 Resp: 12444
Ion Ratio Lower Upper
43 100
61 1.6 10.6 15.8#
70 0.0 7.2 10.8#

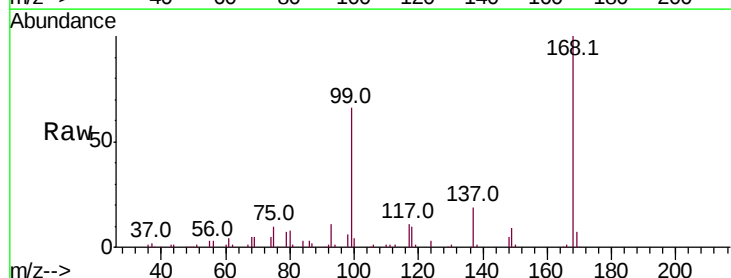


Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1587) (-)
Ion 60.90 (60.60 to 61.60): VN063360.D (-1587) (-)
Ion 70.00 (69.70 to 70.70): VN063360.D (-1587) (-)

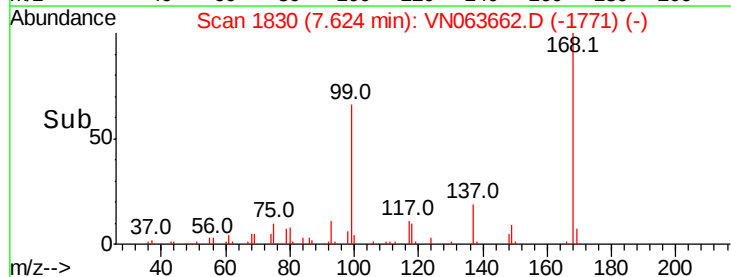
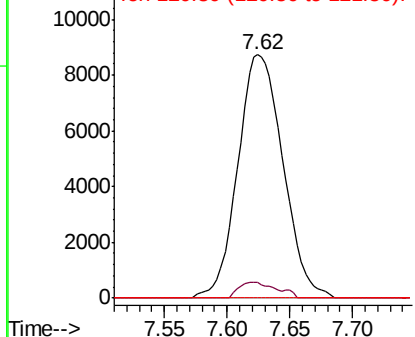


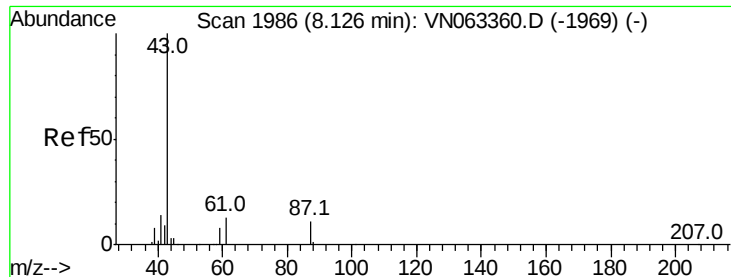
#38
Carbon Tetrachloride
Concen: 5.259 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN063662.D
Acq: 25 Sep 2020 5:49

Tgt Ion: 117 Resp: 21889
Ion Ratio Lower Upper
117 100
119 6.5 74.5 111.7#
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)
Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)
Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)





#43

Isopropyl Acetate

Concen: 8.399 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

TR-04-092320

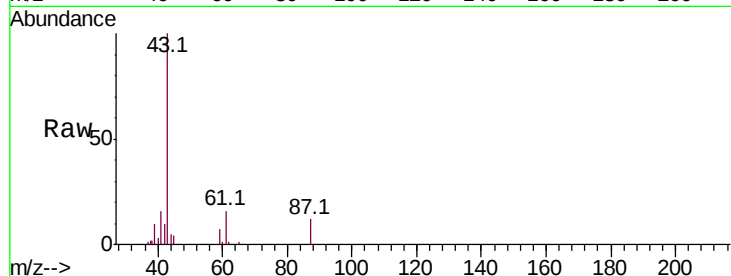
Tot Ion: 43 Resp: 60097

Ion Ratio Lower Upper

43 100

61 17.8 14.2 21.2

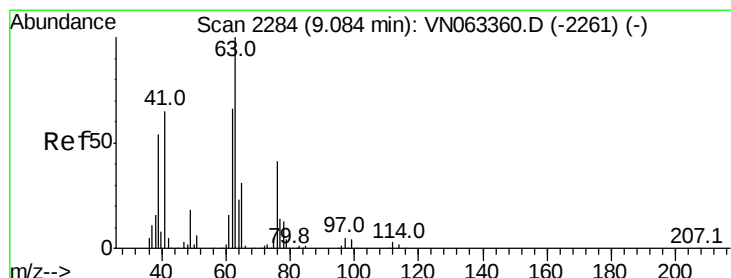
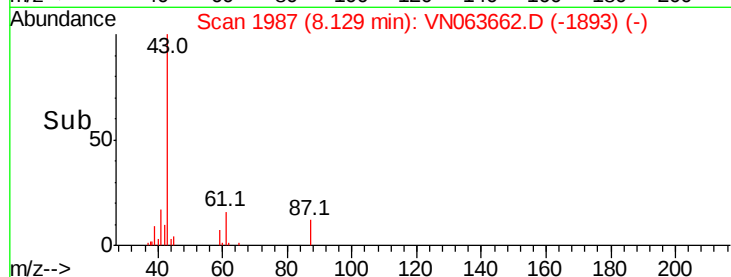
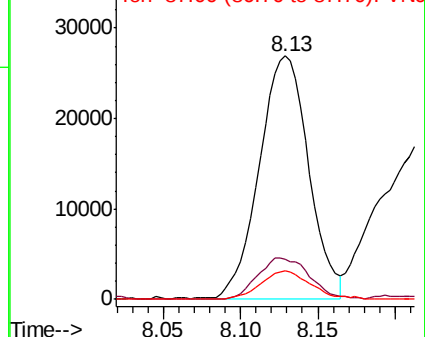
87 11.6 9.0 13.6



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: 0.365 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063662.D

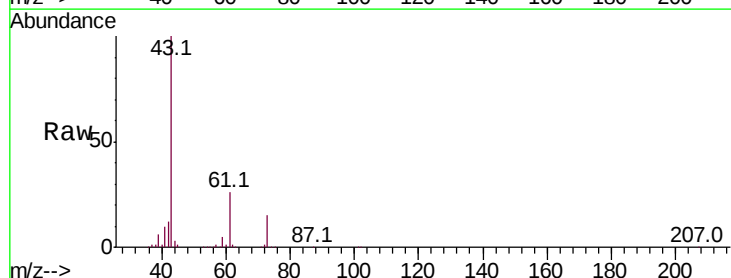
Acq: 25 Sep 2020 5:49

Tgt Ion: 63 Resp: 1156

Ion Ratio Lower Upper

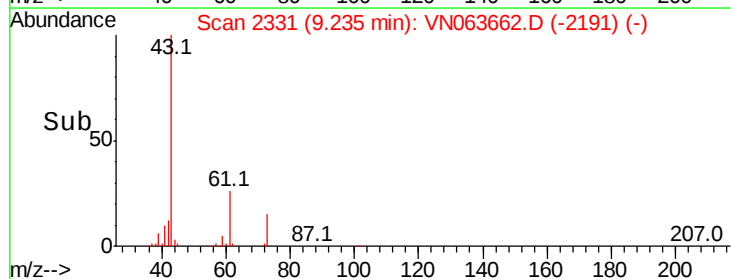
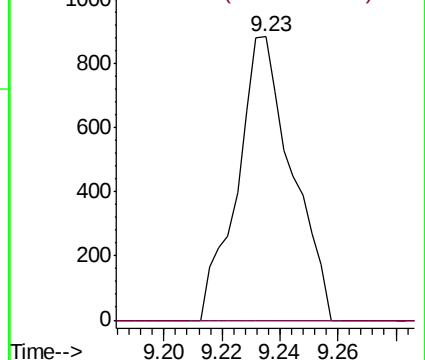
63 100

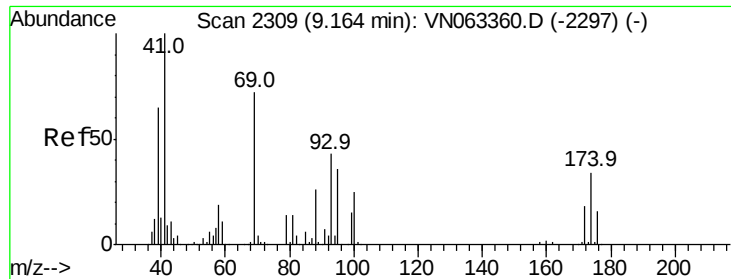
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

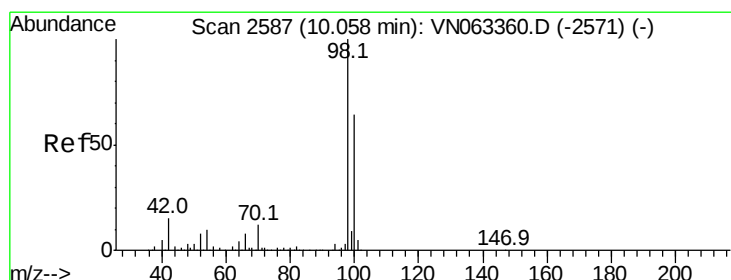
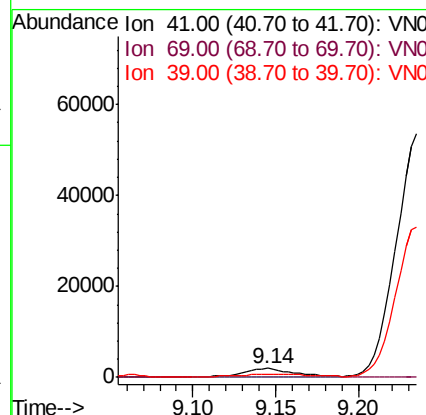
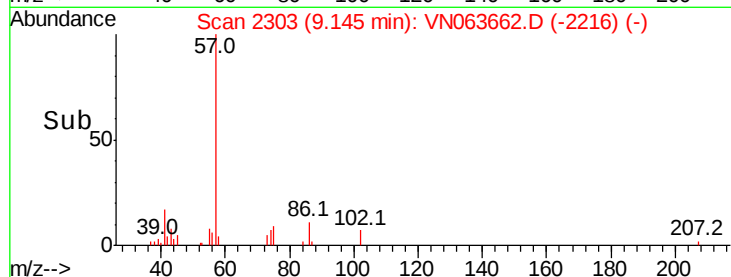
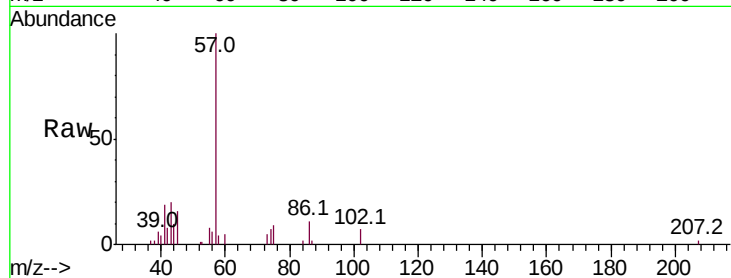




#48
Methvl methacrylate
Concen: 1.278 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063662.D
Acq: 25 Sep 2020 5:49

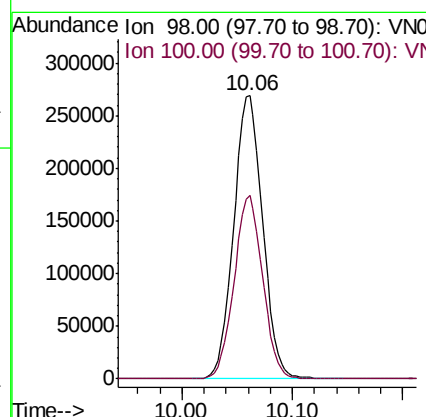
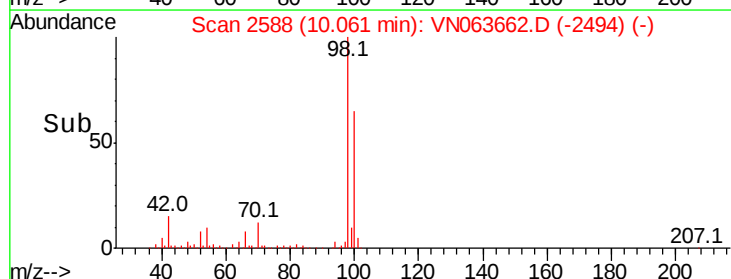
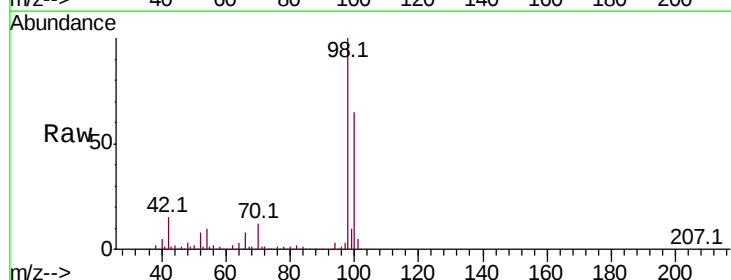
Instrument :
MSVOA_N
ClientSampleId :
TR-04-092320

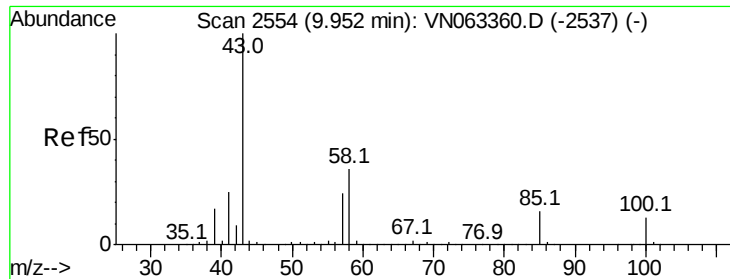
Tot Ion: 41 Resp: 4494
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#50
Toluene-d8
Concen: 49.315 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063662.D
Acq: 25 Sep 2020 5:49

Tgt Ion: 98 Resp: 491287
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 2.114 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

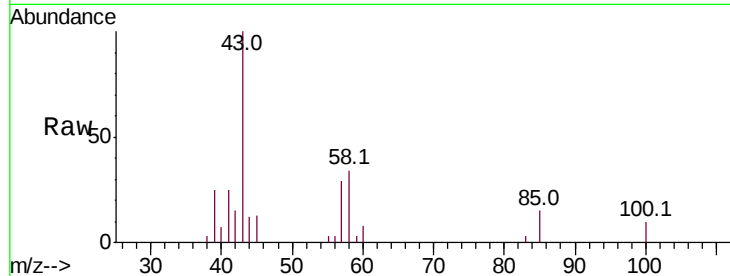
TR-04-092320

Tot Ion: 43 Resp: 8470

Ion Ratio Lower Upper

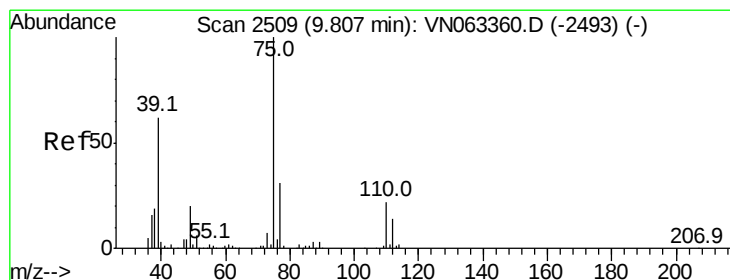
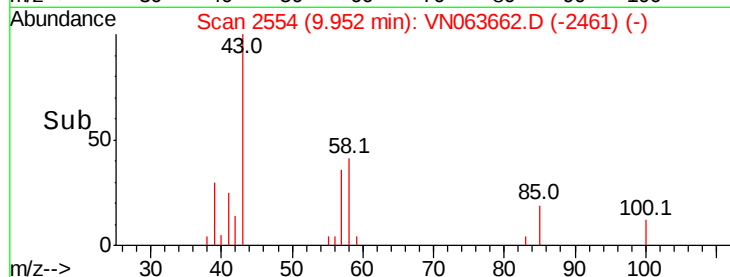
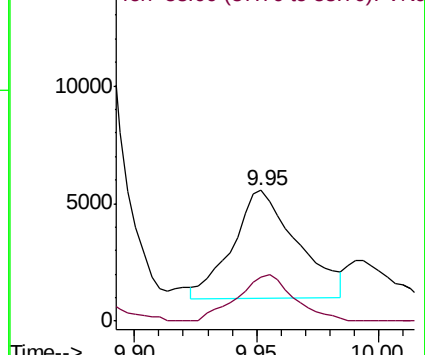
43 100

58 37.5 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: 4.501 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

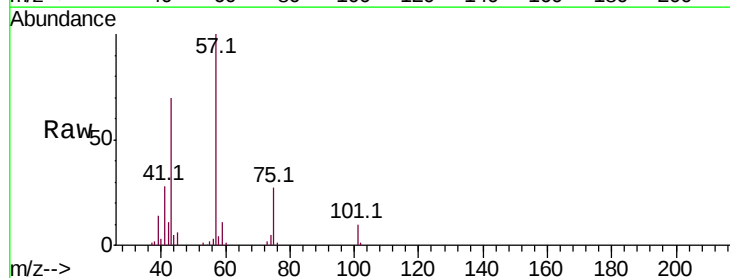
Tgt Ion: 75 Resp: 22939

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

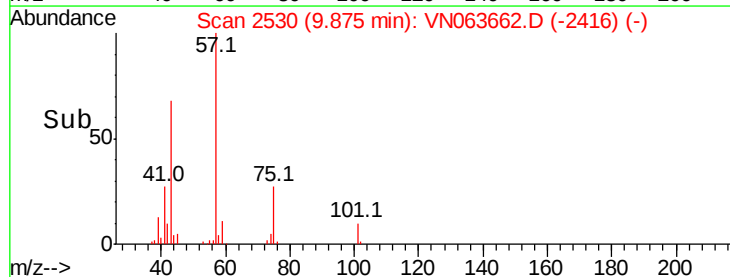
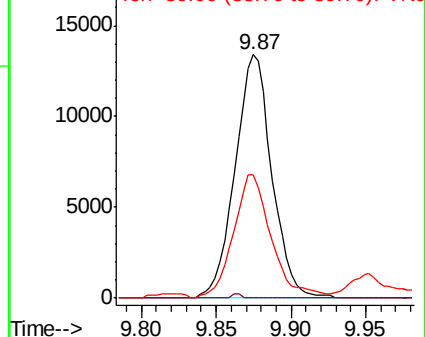
39 50.8 49.8 74.8

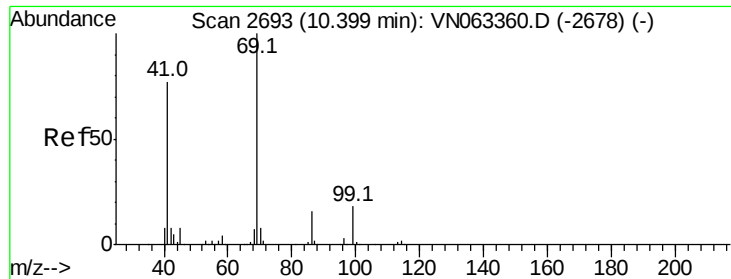


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

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: 0.390 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampled :

TR-04-092320

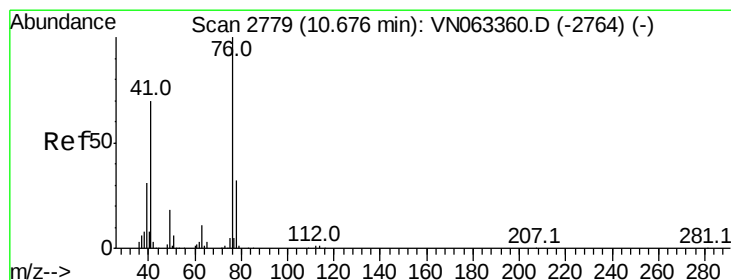
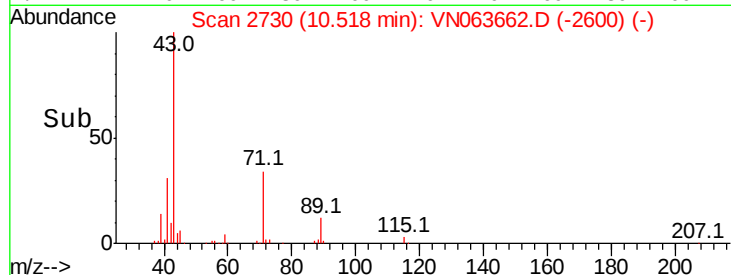
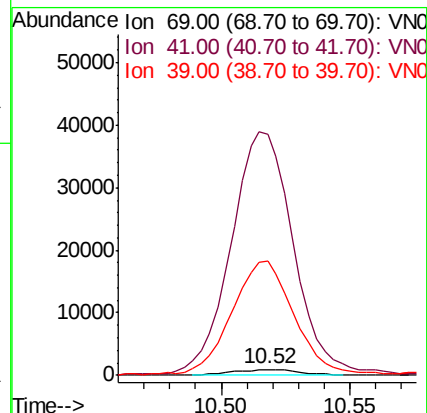
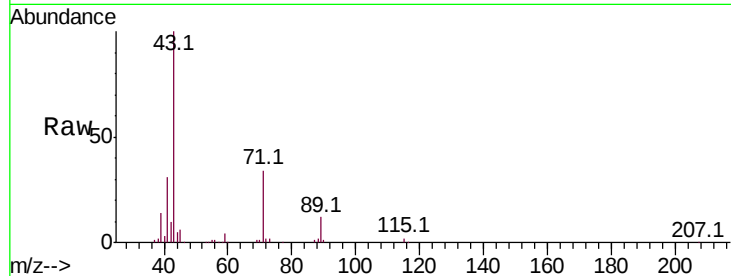
Tot Ion: 69 Resp: 1691

Ion Ratio Lower Upper

69 100

41 3924.8 61.0 91.6#

39 1788.0 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.770 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063662.D

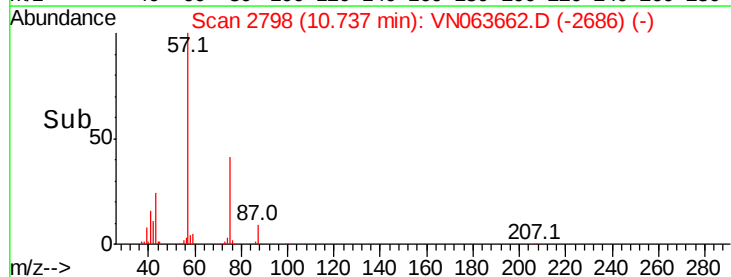
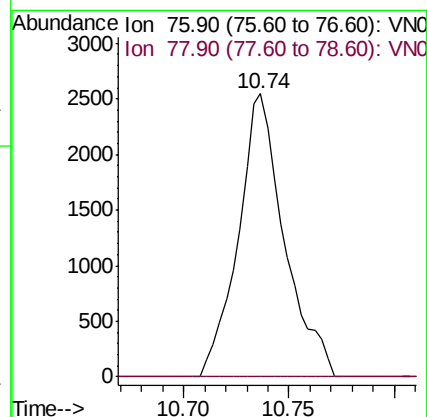
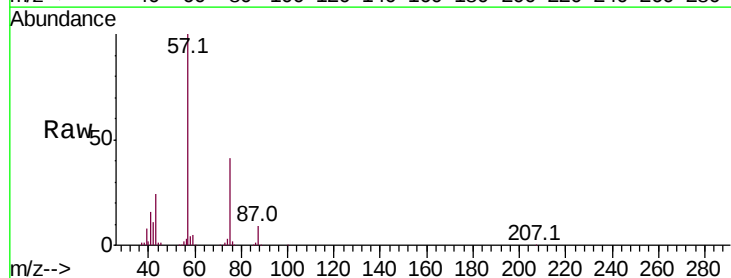
Acq: 25 Sep 2020 5:49

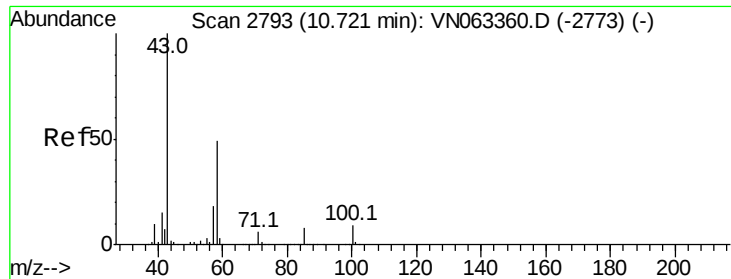
Tgt Ion: 76 Resp: 3862

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 22.275 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

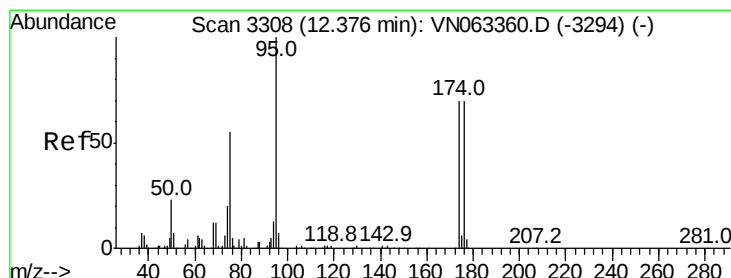
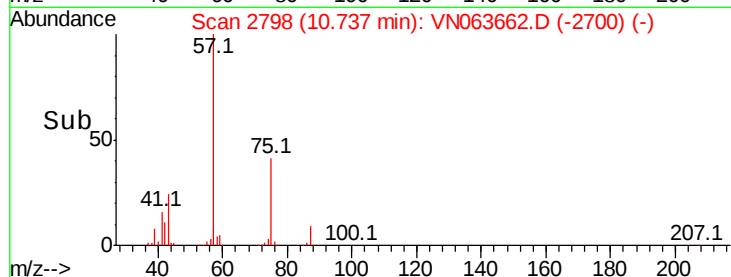
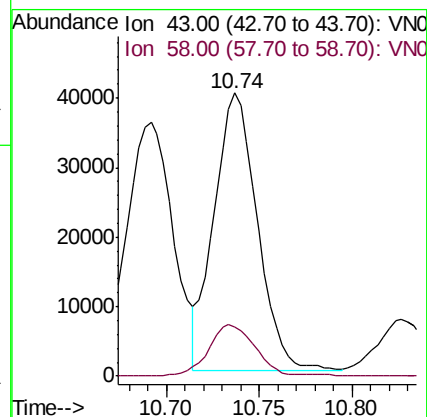
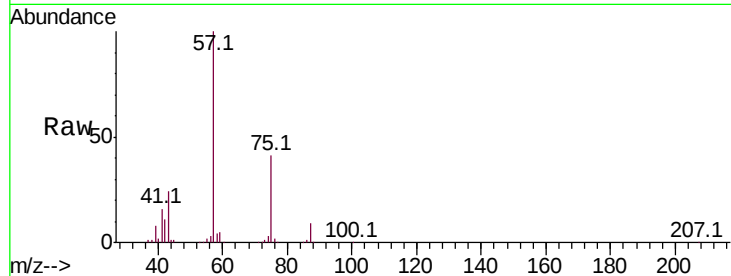
TR-04-092320

Tot Ion: 43 Resp: 64644

Ion Ratio Lower Upper

43 100

58 19.9 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 51.613 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

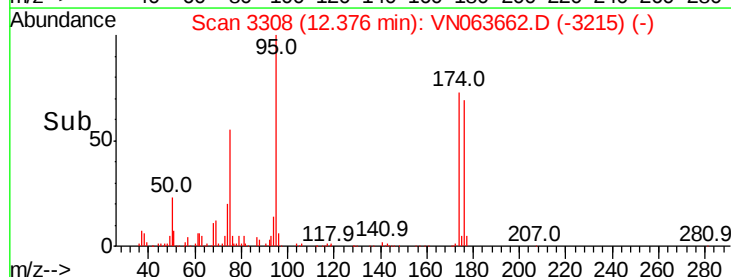
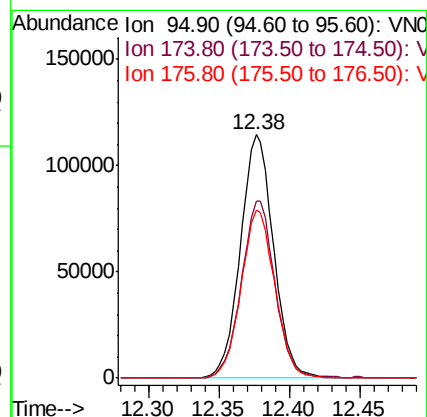
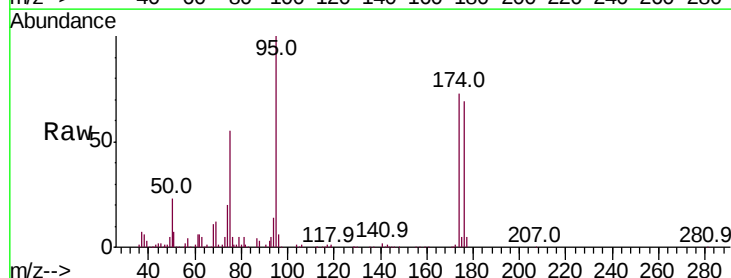
Tgt Ion: 95 Resp: 188490

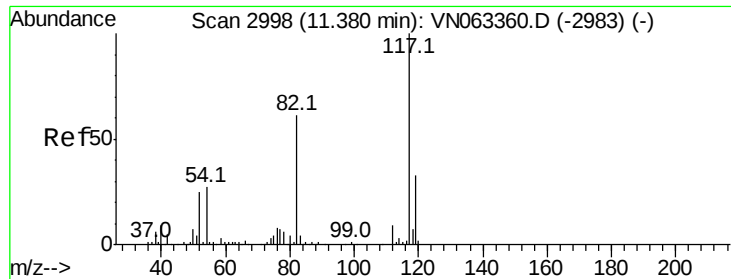
Ion Ratio Lower Upper

95 100

174 73.7 0.0 140.8

176 70.5 0.0 137.6

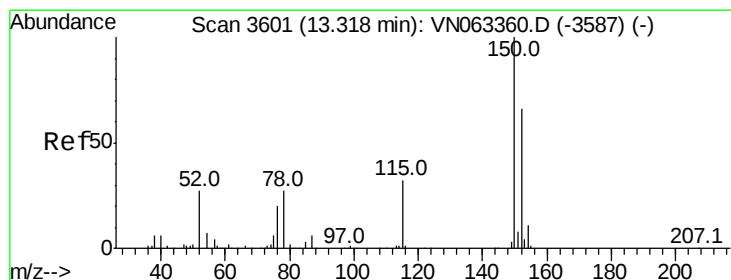
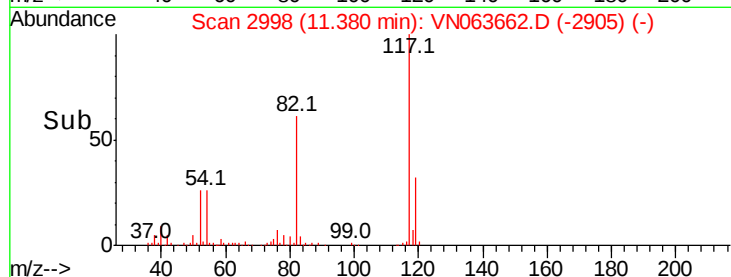
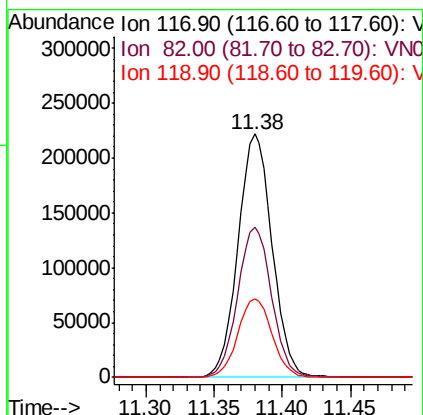
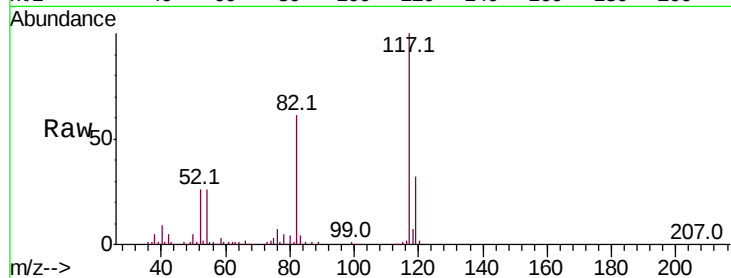




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063662.D
Acq: 25 Sep 2020 5:49

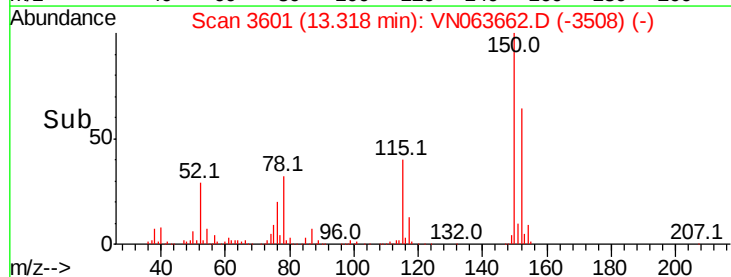
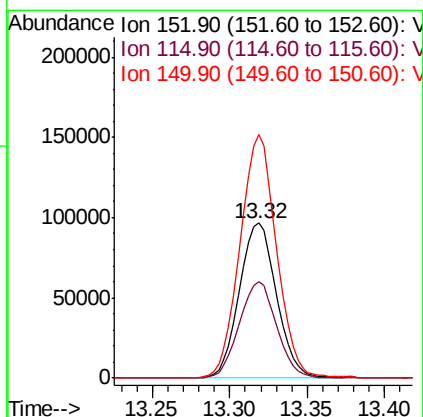
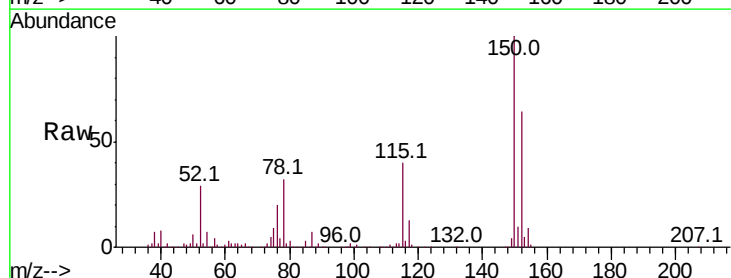
Instrument :
MSVOA_N
ClientSampleId :
TR-04-092320

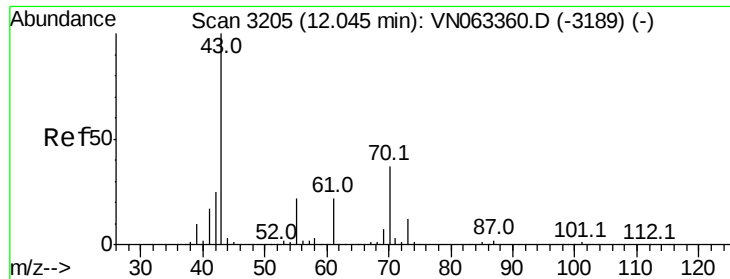
Tot Ion:117 Resp: 384883
Ion Ratio Lower Upper
117 100
82 61.5 49.2 73.8
119 32.5 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063662.D
Acq: 25 Sep 2020 5:49

Tgt Ion:152 Resp: 161271
Ion Ratio Lower Upper
152 100
115 63.0 32.2 96.6
150 155.0 0.0 343.4





#74

N-amvl acetate

Concen: 0.306 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.05 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

TR-04-092320

Tot Ion: 43 Resp: 1872

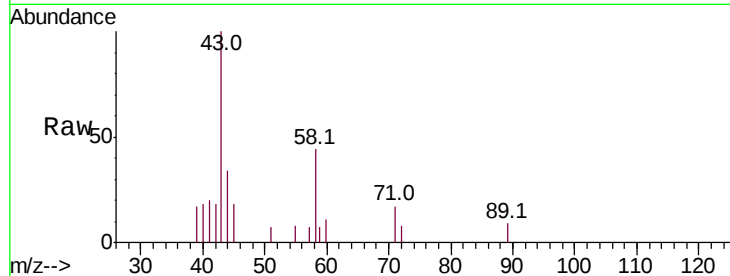
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 11.0 17.7 26.5#

61 0.0 17.4 26.2#

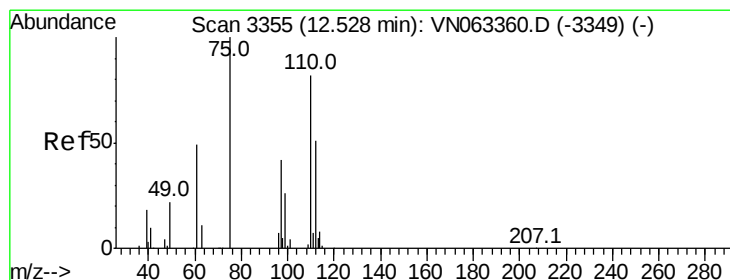
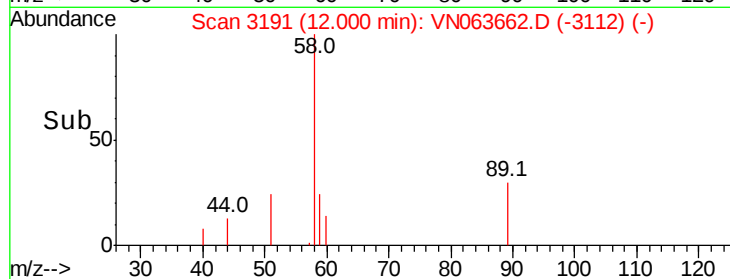
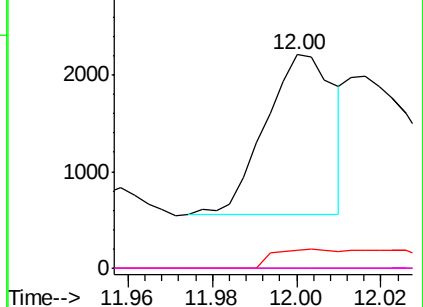


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.026 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063662.D

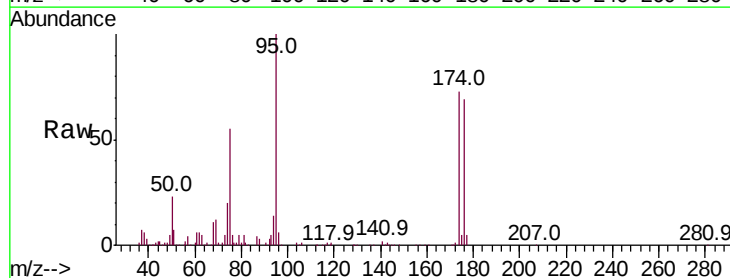
Acq: 25 Sep 2020 5:49

Tgt Ion: 75 Resp: 107881

Ion Ratio Lower Upper

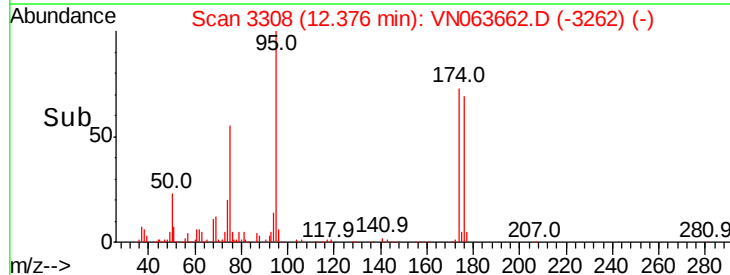
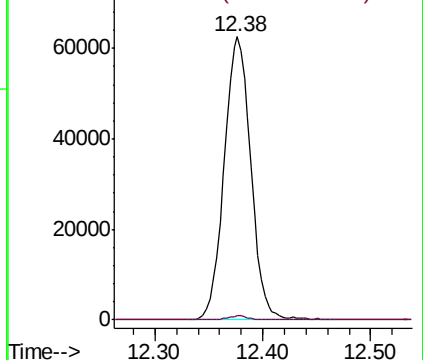
75 100

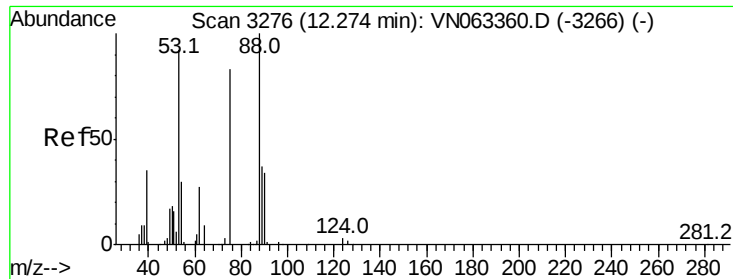
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.096 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063662.D

Acq: 25 Sep 2020 5:49

Instrument :

MSVOA_N

ClientSampleId :

TR-04-092320

Tot Ion: 75 Resp: 107881

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

