

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100820\
 Data File : VN064001.D
 Acq On : 8 Oct 2020 19:17
 Operator : JC/MD
 Sample : L4331-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-10-8-20

Quant Time: Oct 09 04:06:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	242566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	436892	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	457810	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176841	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	202832	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
35) Dibromofluoromethane	7.55	113	153306	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	
50) Toluene-d8	10.06	98	571495	49.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.46%	
62) 4-Bromofluorobenzene	12.38	95	209917	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	

Target Compounds

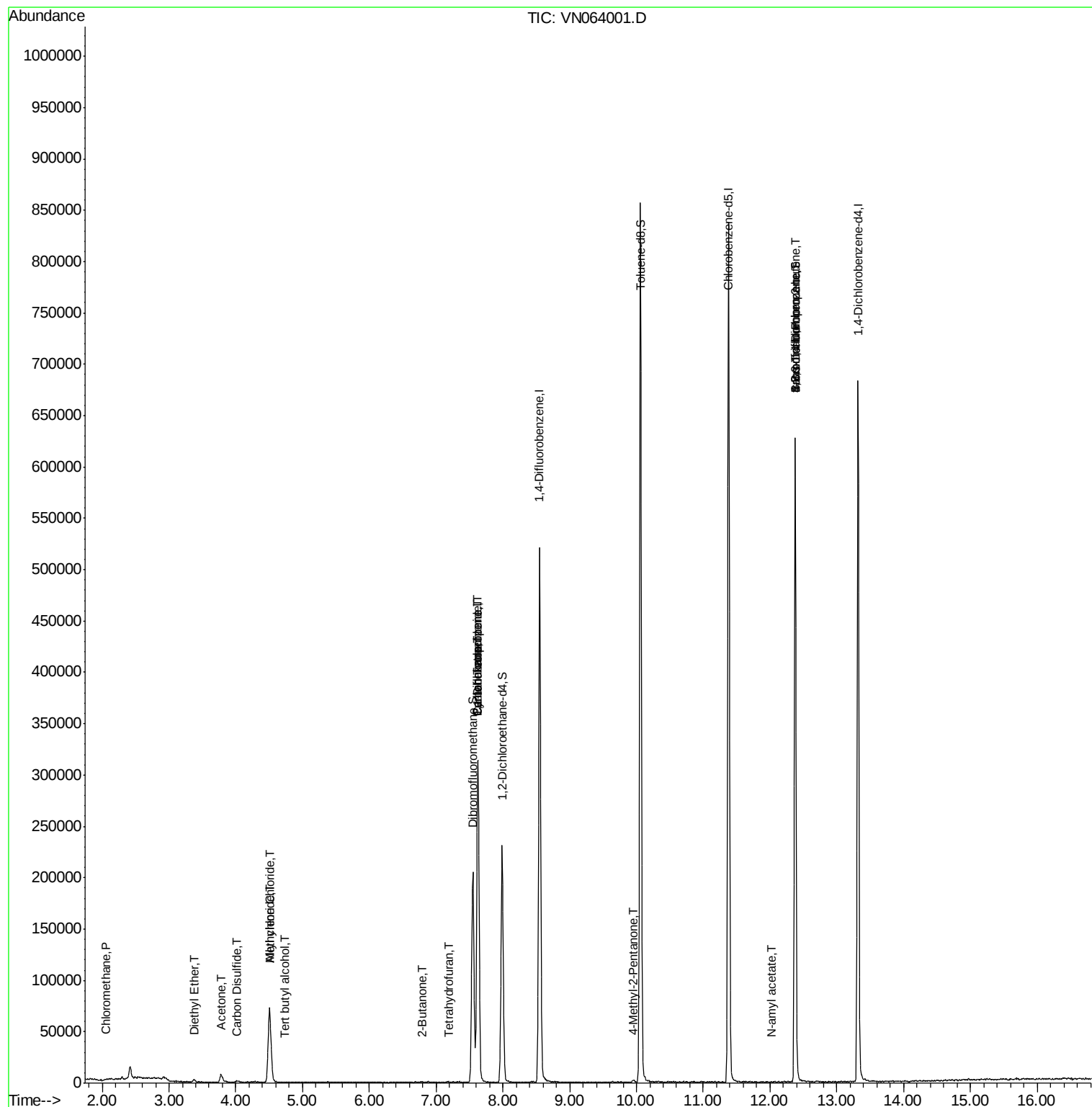
						Qvalue
3) Chloromethane	2.04	50	828	0.276	ug/l #	82
8) Diethyl Ether	3.38	74	1267	0.784	ug/l	78
11) Tert butyl alcohol	4.73	59	116	0.262	ug/l #	71
14) Allyl chloride	4.51	41	2332	0.514	ug/l #	22
16) Acetone	3.78	43	12564	10.185	ug/l	100
17) Carbon Disulfide	4.00	76	93	0.714	ug/l #	76
20) Methylene Chloride	4.51	84	50615	17.976	ug/l	97
25) 2-Butanone	6.79	43	538	0.308	ug/l #	51
29) Tetrahydrofuran	7.18	42	409	0.349	ug/l #	36
31) Cyclohexane	7.62	56	6801	1.462	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	20776	4.694	ug/l #	52
38) Carbon Tetrachloride	7.63	117	26596	5.359	ug/l #	14
51) 4-Methyl-2-Pentanone	9.95	43	2990	0.702	ug/l #	77
71) Bromoform	12.38	173	1027	0.373	ug/l #	1
74) N-amyl acetate	12.04	43	63	2.226	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	113685	29.163	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113685	83.994	ug/l #	6

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

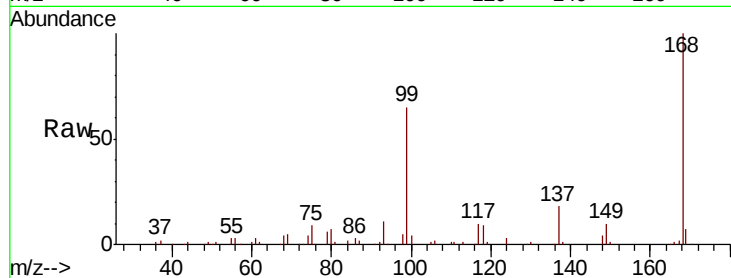
TB-10-8-20

Tot Ion:168 Resp: 242566

Ion Ratio Lower Upper

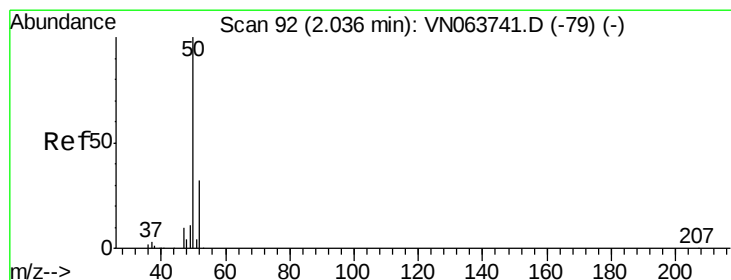
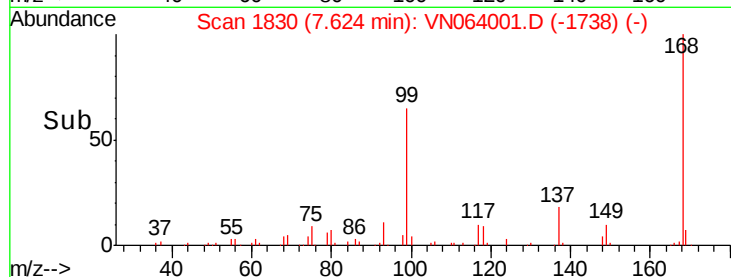
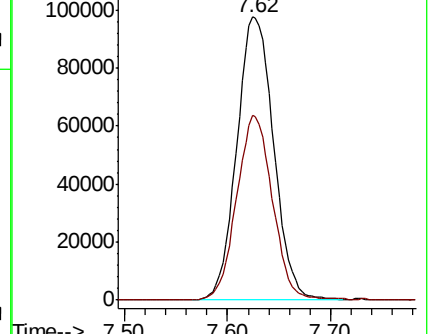
168 100

99 65.1 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.276 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.00 min

Lab File: VN064001.D

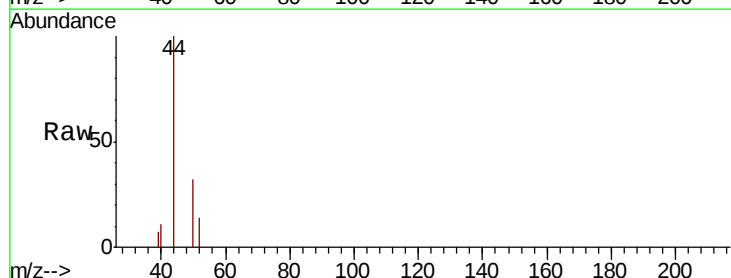
Acq: 8 Oct 2020 19:17

Tgt Ion: 50 Resp: 828

Ion Ratio Lower Upper

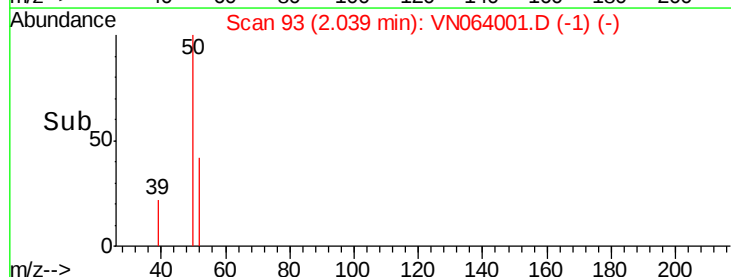
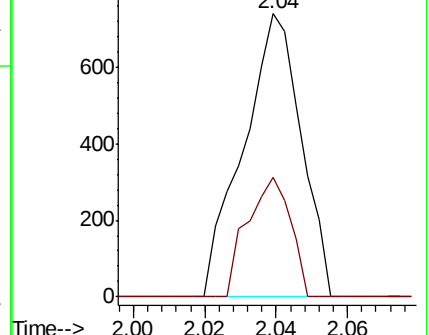
50 100

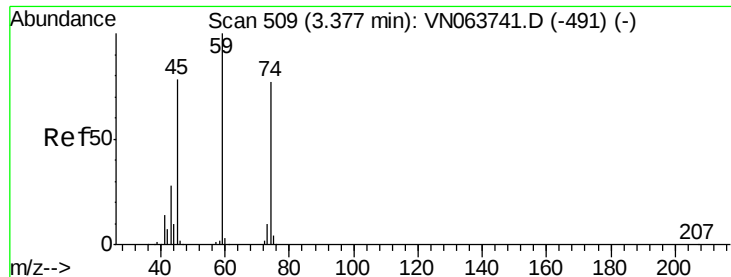
52 42.3 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#8

Diethyl Ether

Concen: 0.784 ug/l

RT: 3.38 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

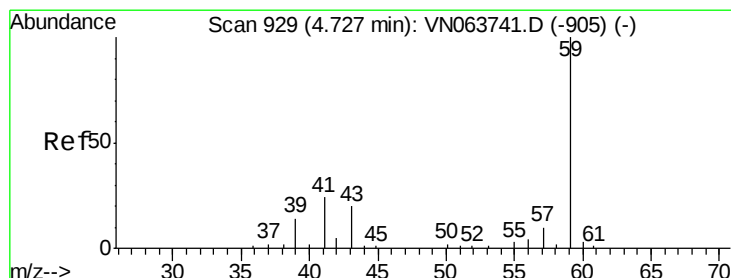
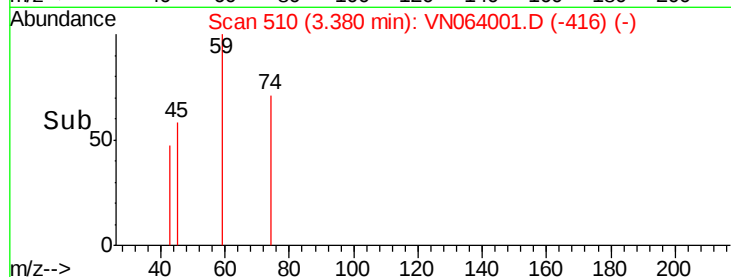
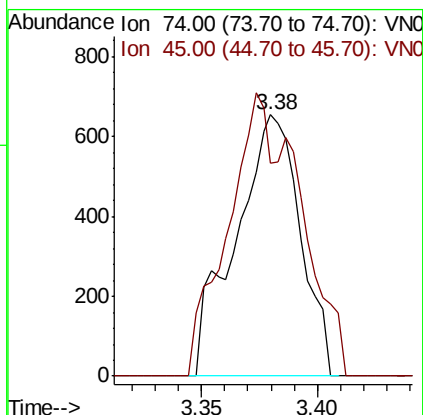
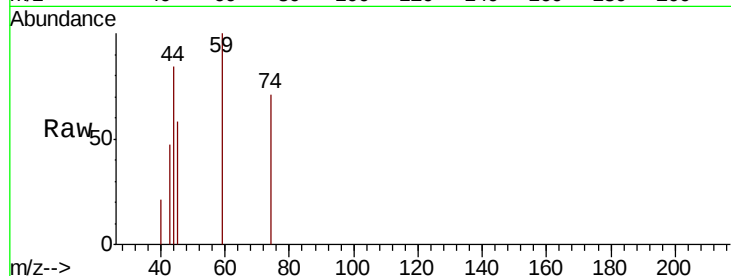
TB-10-8-20

Tot Ion: 74 Resp: 1267

Ion Ratio Lower Upper

74 100

45 79.6 50.9 152.8



#11

Tert butyl alcohol

Concen: 0.262 ug/l

RT: 4.73 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN064001.D

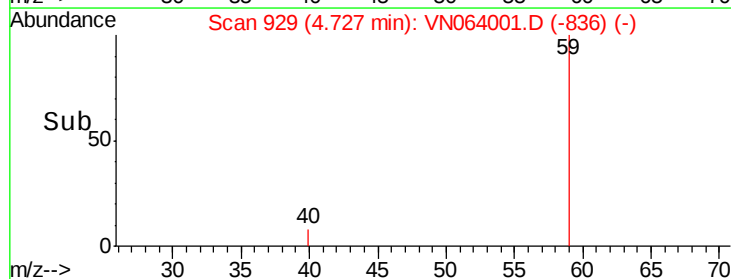
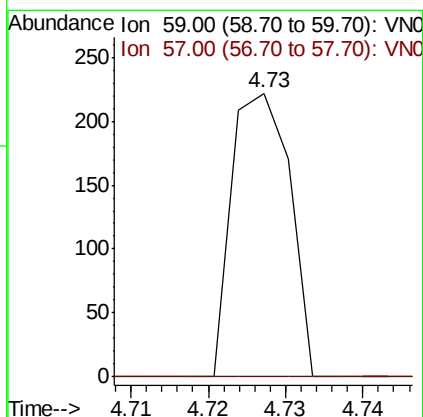
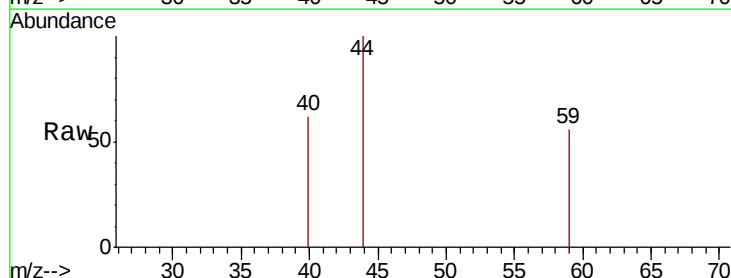
Acq: 8 Oct 2020 19:17

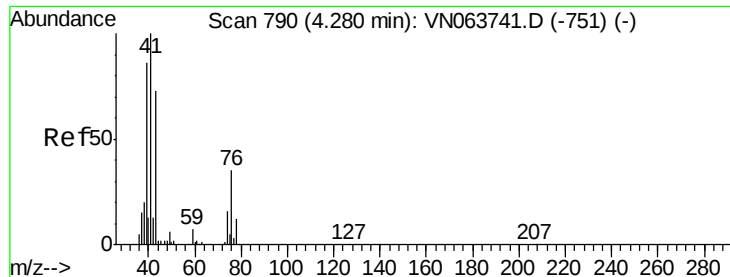
Tgt Ion: 59 Resp: 116

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#

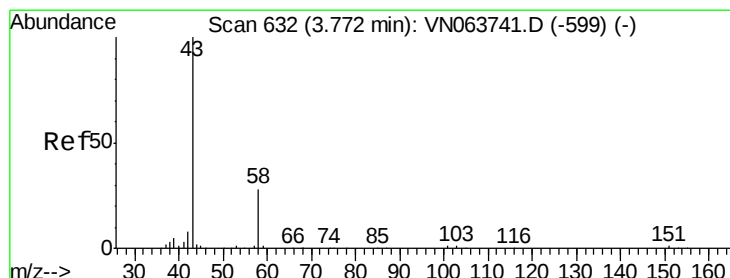
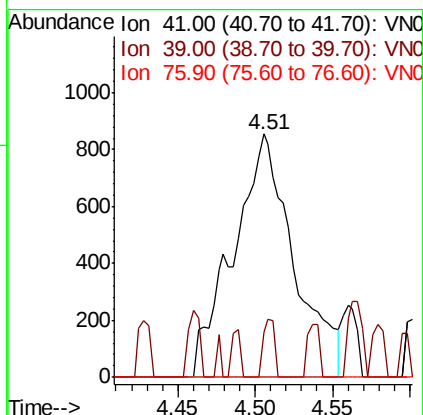
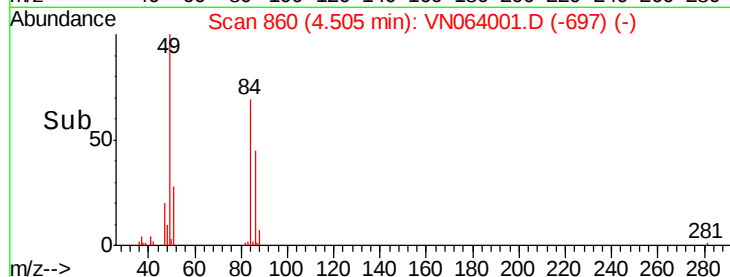
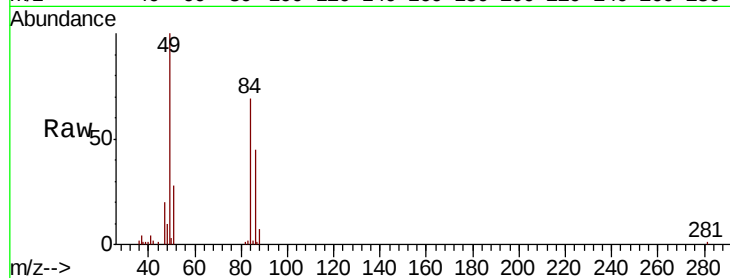




#14
Allvl chloride
Concen: 0.514 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.23 min
Lab File: VN064001.D
Acq: 8 Oct 2020 19:17

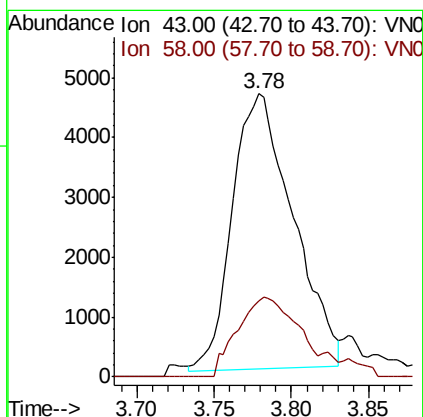
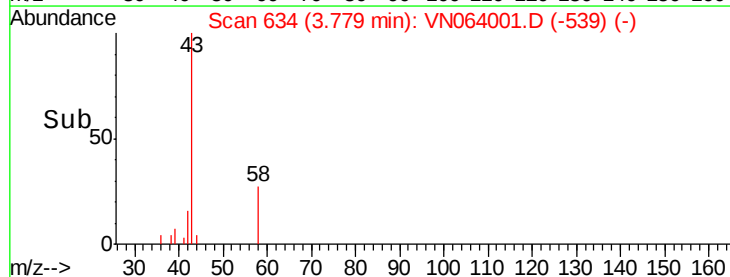
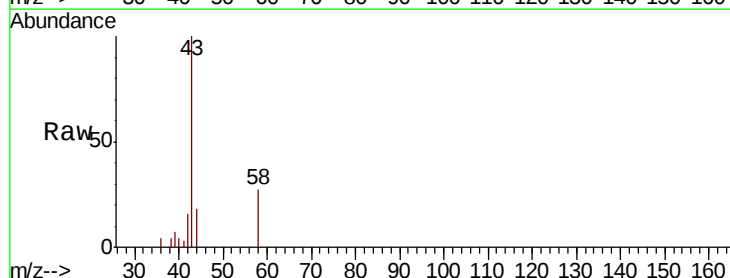
Instrument :
MSVOA_N
ClientSampled :
TB-10-8-20

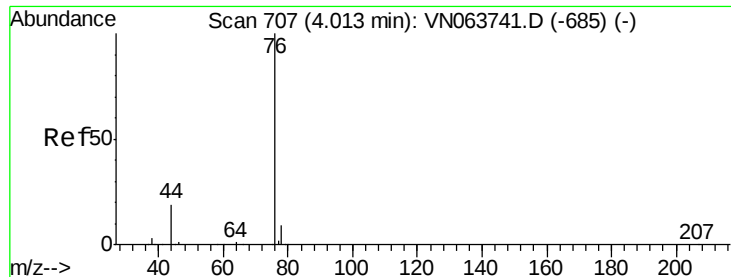
Tot Ion: 41 Resp: 2332
Ion Ratio Lower Upper
41 100
39 4.6 64.5 96.7#
76 0.0 25.9 38.9#



#16
Acetone
Concen: 10.185 ug/l
RT: 3.78 min Scan# 634
Delta R.T. 0.01 min
Lab File: VN064001.D
Acq: 8 Oct 2020 19:17

Tgt Ion: 43 Resp: 12564
Ion Ratio Lower Upper
43 100
58 28.1 22.3 33.5





#17

Carbon Disulfide

Concen: 0.714 ug/l

RT: 4.00 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampleId :

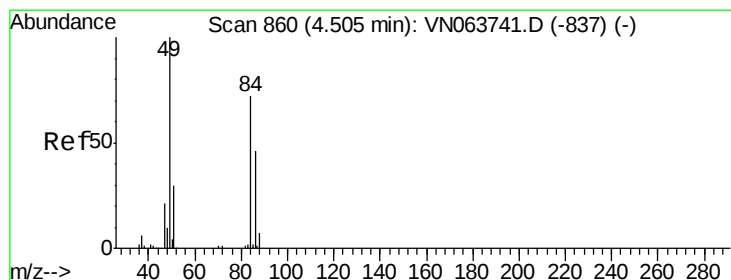
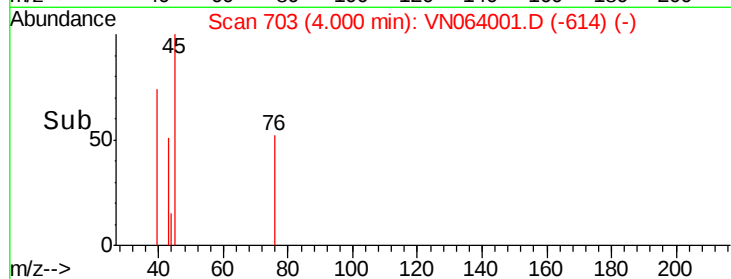
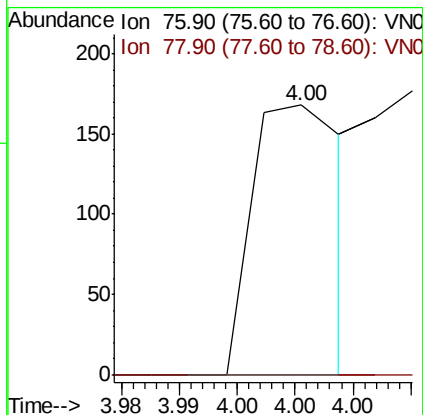
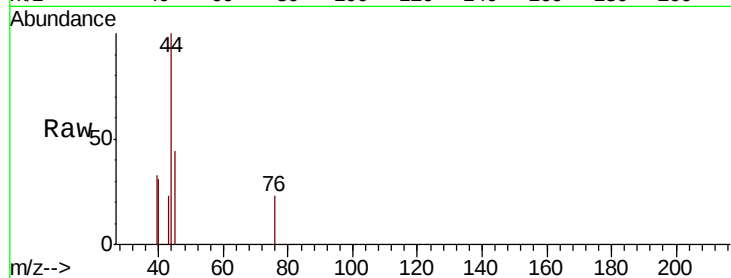
TB-10-8-20

Tot Ion: 76 Resp: 93

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#20

Methylene Chloride

Concen: 17.976 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Tgt Ion: 84 Resp: 50615

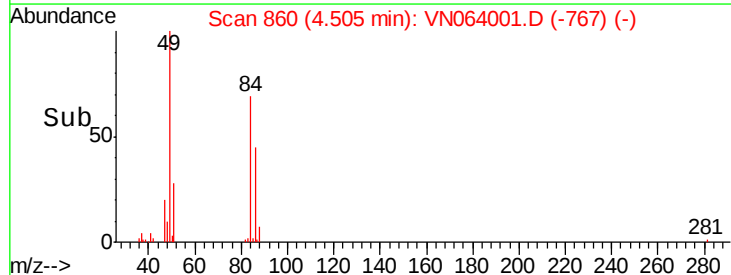
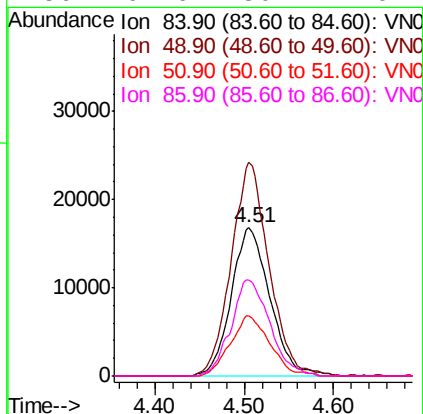
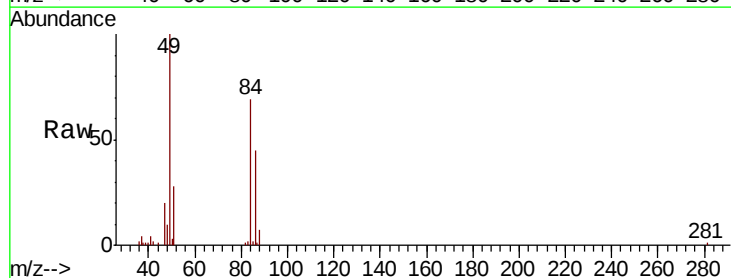
Ion Ratio Lower Upper

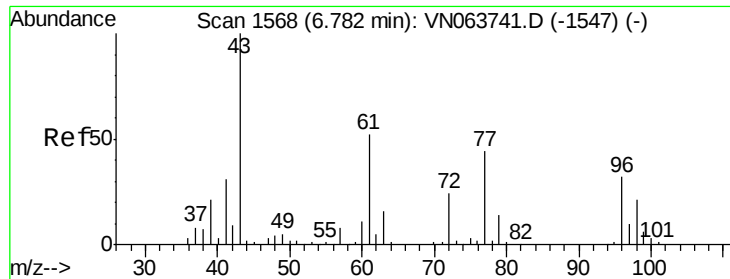
84 100

49 144.2 110.4 165.6

51 41.0 33.3 49.9

86 64.6 50.7 76.1





#25

2-Butanone

Concen: 0.308 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

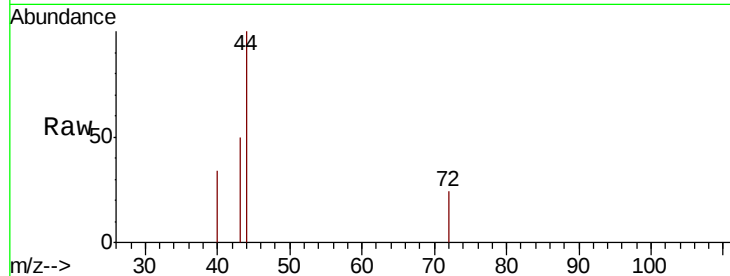
TB-10-8-20

Tot Ion: 43 Resp: 538

Ion Ratio Lower Upper

43 100

72 48.1 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

500

400

300

200

100

0

6.76

6.78

6.80

6.82

6.84

6.86

6.88

6.90

6.92

6.94

6.96

6.98

7.00

7.02

7.04

7.06

7.08

7.10

7.12

7.14

7.16

7.18

7.20

7.22

7.24

7.26

7.28

7.30

7.32

7.34

7.36

7.38

7.40

7.42

7.44

7.46

7.48

7.50

7.52

7.54

7.56

7.58

7.60

7.62

7.64

7.66

7.68

7.70

7.72

7.74

7.76

7.78

7.80

7.82

7.84

7.86

7.88

7.90

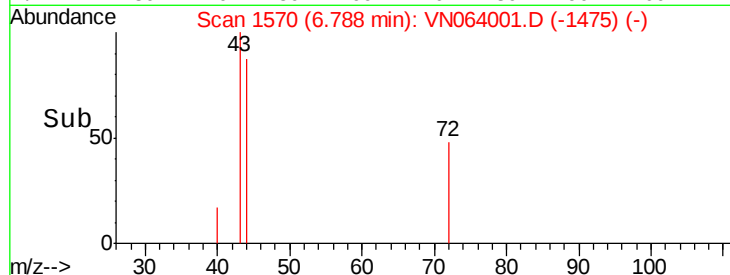
7.92

7.94

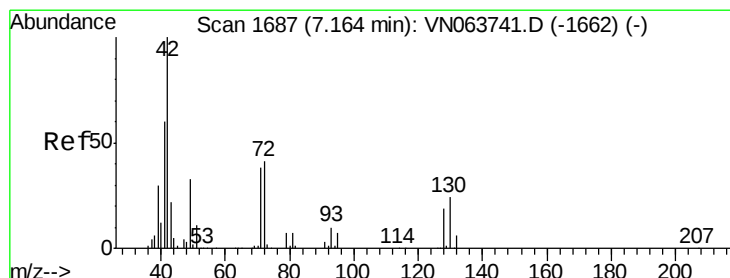
7.96

7.98

8.00



Time-->



#29

Tetrahydrofuran

Concen: 0.349 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

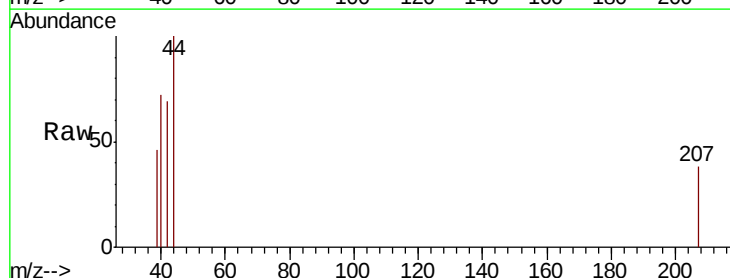
Tgt Ion: 42 Resp: 409

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

300

200

100

0

7.14

7.16

7.18

7.20

7.22

7.24

7.26

7.28

7.30

7.32

7.34

7.36

7.38

7.40

7.42

7.44

7.46

7.48

7.50

7.52

7.54

7.56

7.58

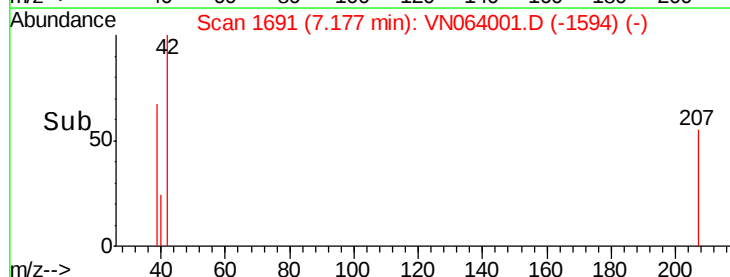
7.60

7.62

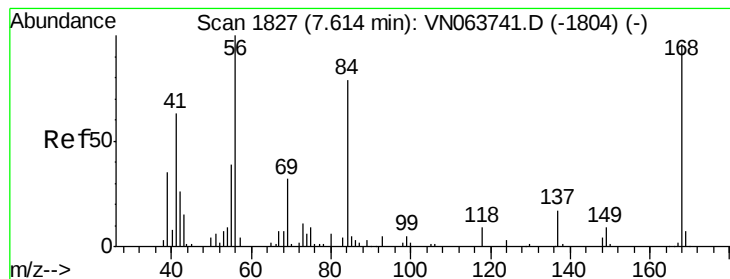
7.64

7.66

7.68



Time-->



#31

Cyclohexane

Concen: 1.462 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampleId :

TB-10-8-20

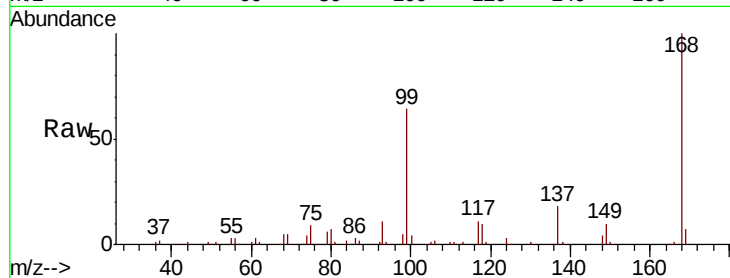
Tot Ion: 56 Resp: 6801

Ion Ratio Lower Upper

56 100

69 173.4 25.4 38.2#

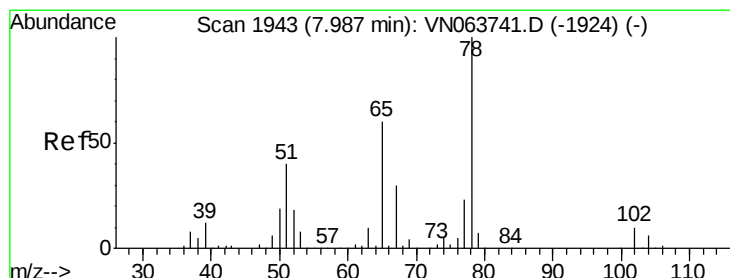
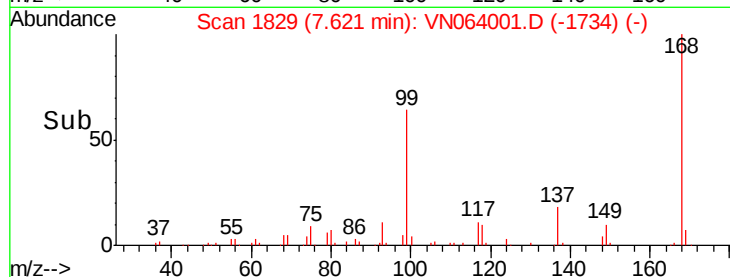
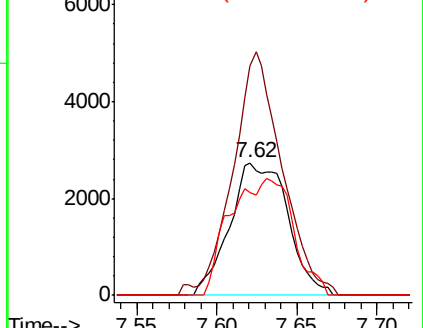
84 78.0 63.3 94.9



Abundance Ion 56.00 (55.70 to 56.70): VN063741.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN063741.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN063741.D (-1804) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.615 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064001.D

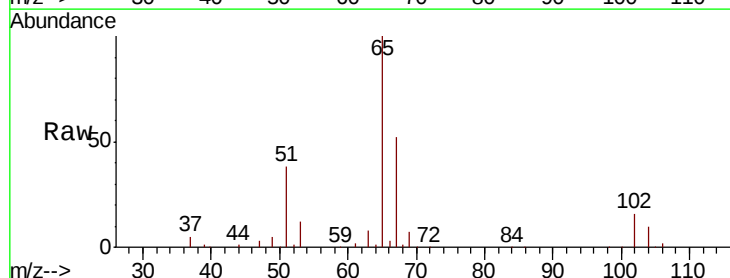
Acq: 8 Oct 2020 19:17

Tgt Ion: 65 Resp: 202832

Ion Ratio Lower Upper

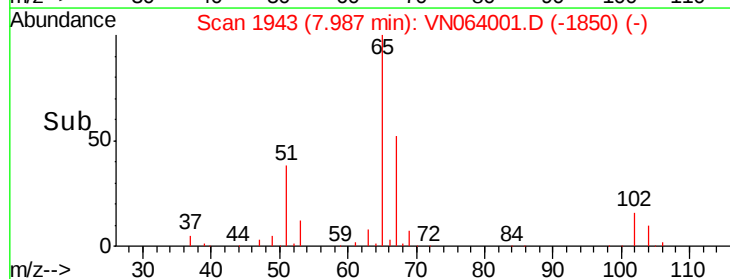
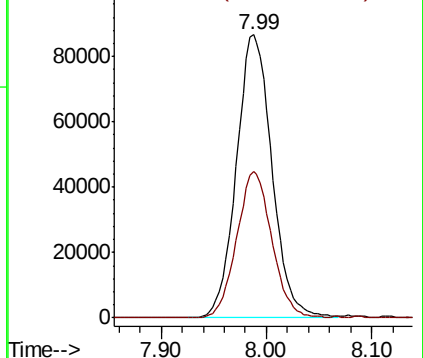
65 100

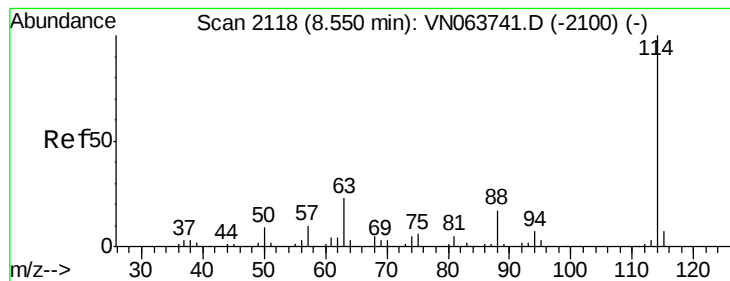
67 51.1 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

TB-10-8-20

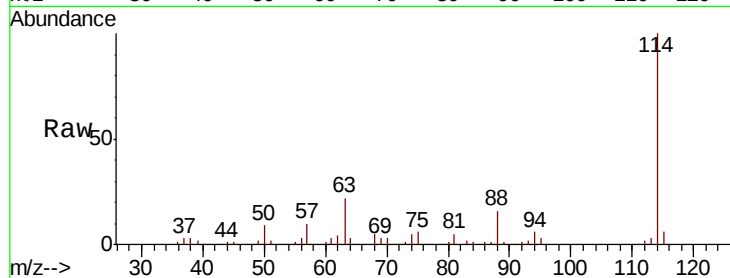
Tot Ion:114 Resp: 436892

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.0

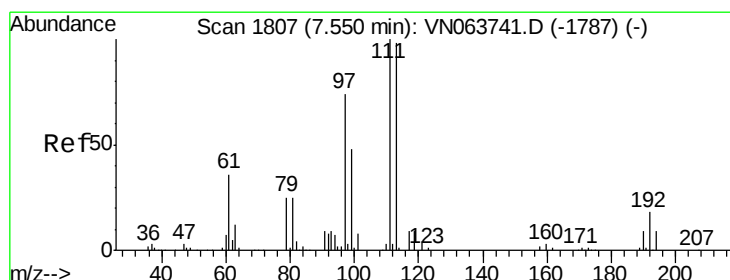
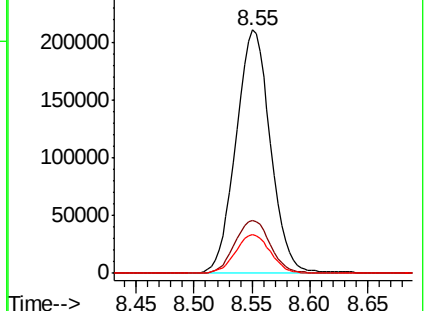
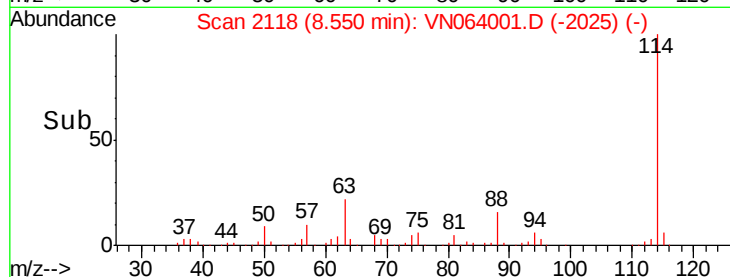
88 16.0 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.571 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

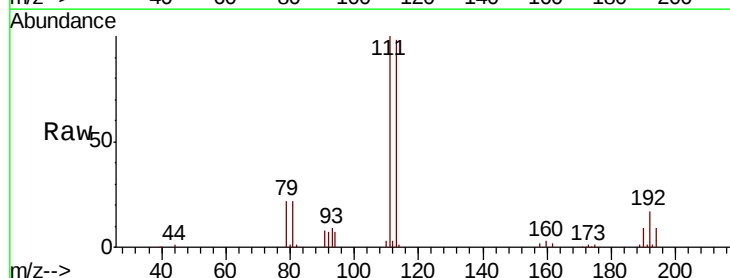
Tgt Ion:113 Resp: 153306

Ion Ratio Lower Upper

113 100

111 101.3 81.8 122.8

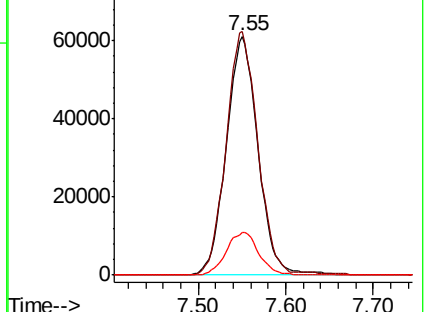
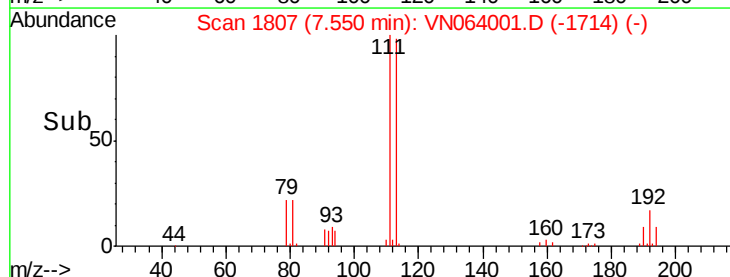
192 18.3 14.2 21.2

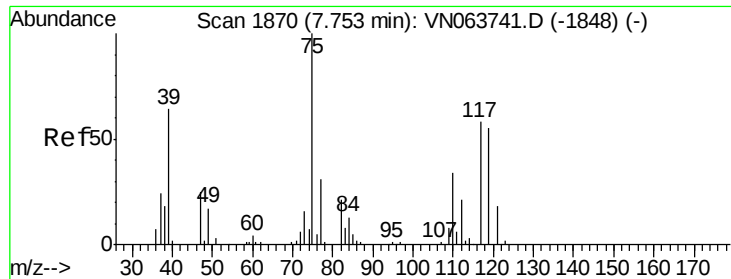


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

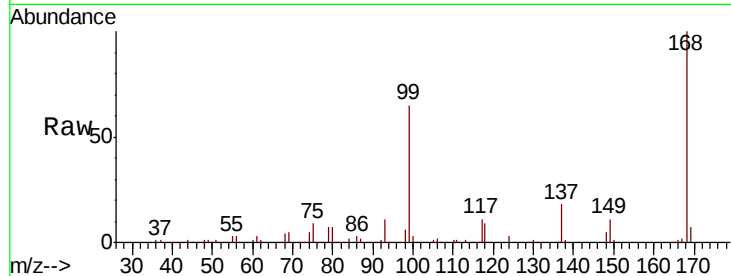




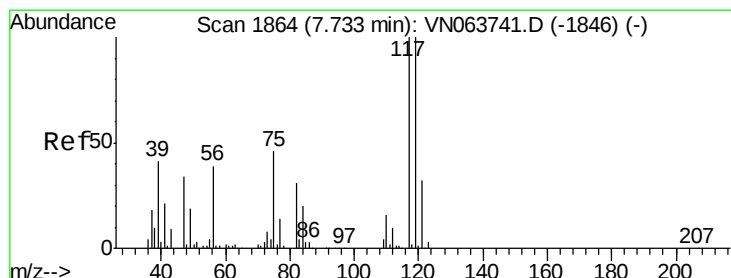
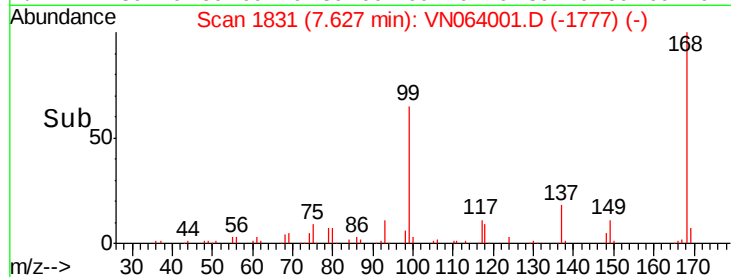
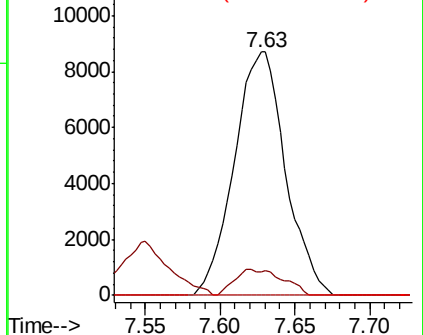
#36
 1,1-Dichloropropene
 Concen: 4.694 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064001.D
 Acq: 8 Oct 2020 19:17

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-10-8-20

Tot Ion: 75 Resp: 20776
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.9 50.6#
 77 0.0 24.5 36.7#

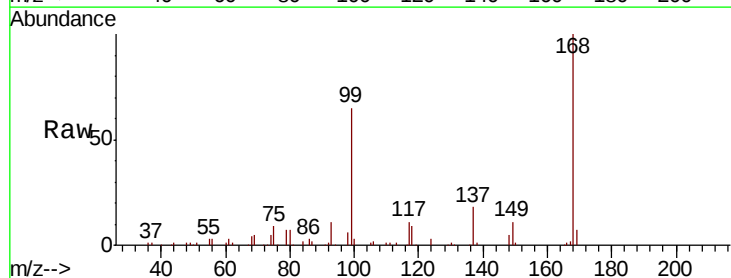


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

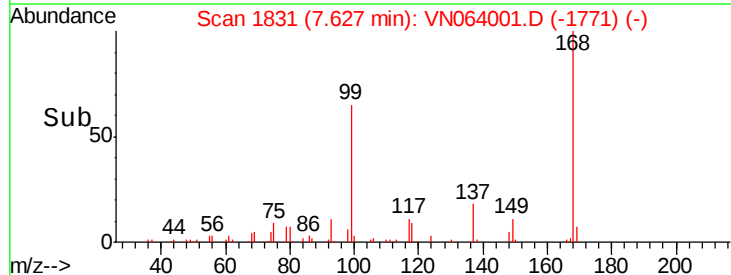
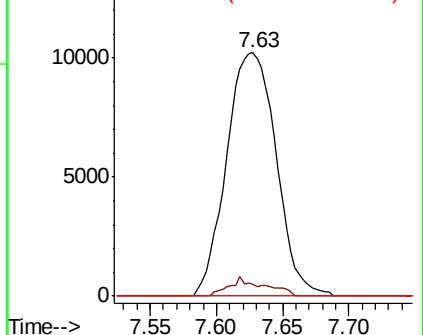


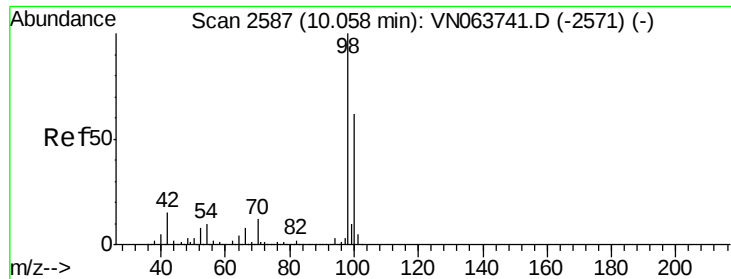
#38
 Carbon Tetrachloride
 Concen: 5.359 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064001.D
 Acq: 8 Oct 2020 19:17

Tgt Ion: 117 Resp: 26596
 Ion Ratio Lower Upper
 117 100
 119 4.7 80.1 120.1#
 121 0.0 25.7 38.5#



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





#50

Toluene-d8

Concen: 49.730 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

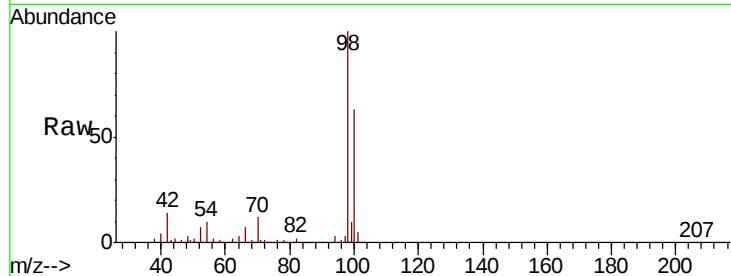
TB-10-8-20

Tot Ion: 98 Resp: 571495

Ion Ratio Lower Upper

98 100

100 63.4 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063741.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063741.D (-2571) (-)

10.06

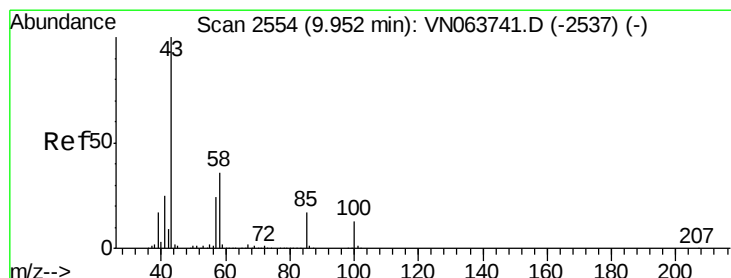
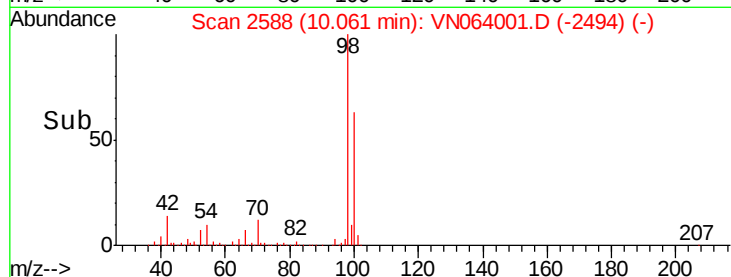
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.702 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064001.D

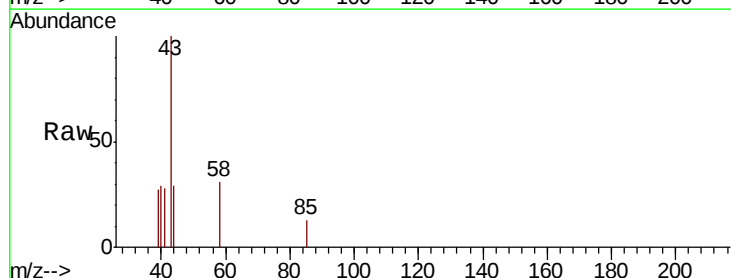
Acq: 8 Oct 2020 19:17

Tgt Ion: 43 Resp: 2990

Ion Ratio Lower Upper

43 100

58 21.9 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063741.D (-2537) (-)

2000

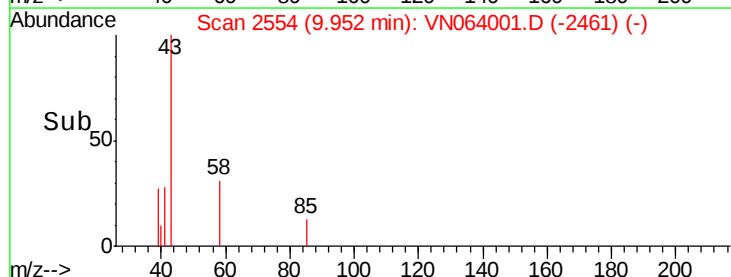
1500

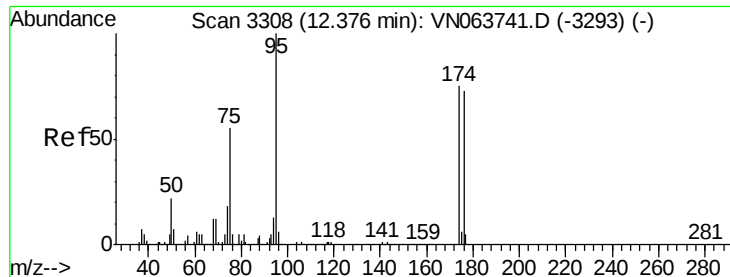
1000

500

0

Time-->

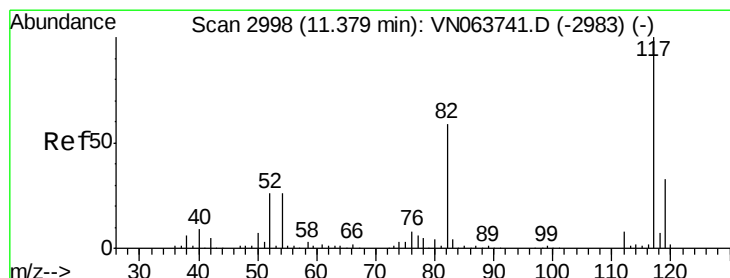
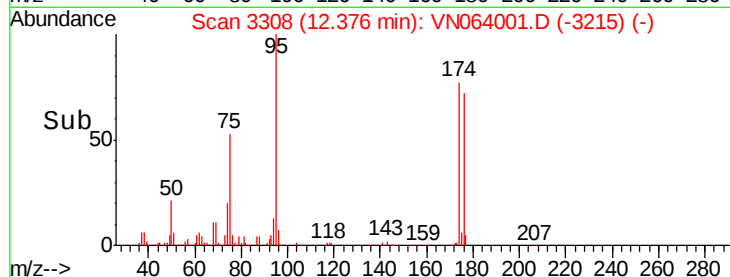
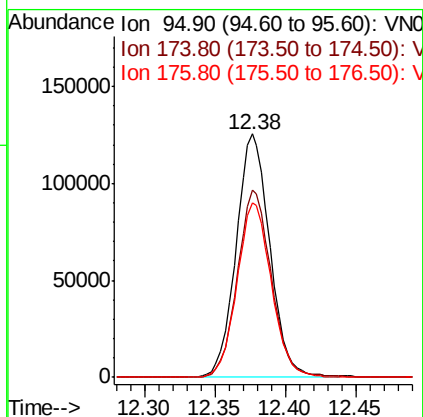
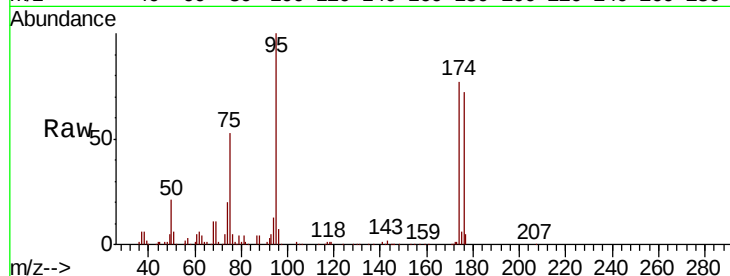




#62
4-Bromofluorobenzene
Concen: 48.592 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064001.D
Acq: 8 Oct 2020 19:17

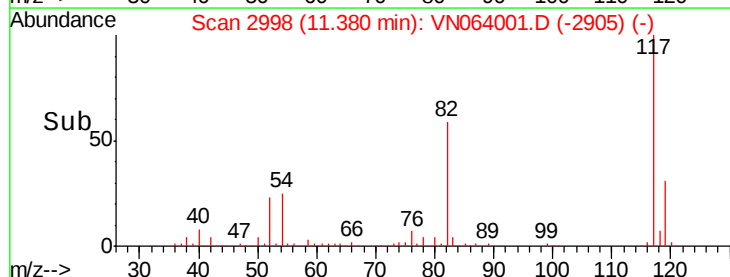
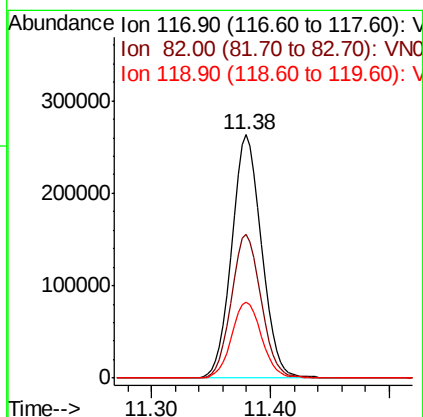
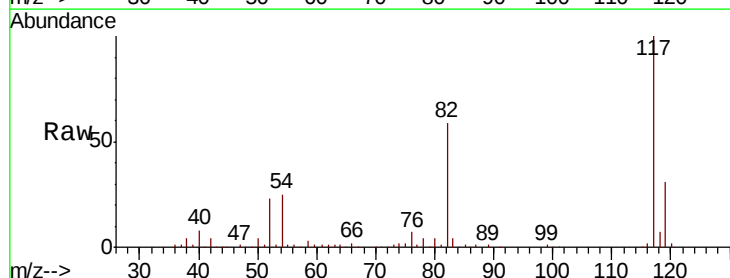
Instrument :
MSVOA_N
ClientSampleId :
TB-10-8-20

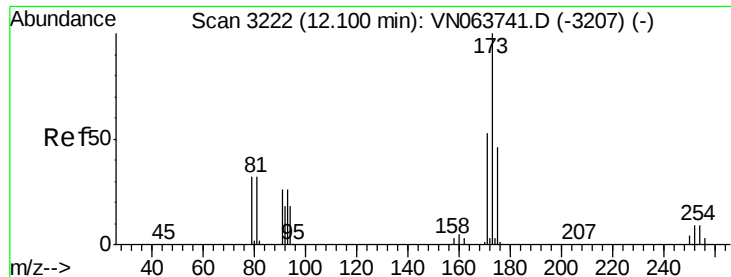
Tot Ion: 95 Resp: 209917
Ion Ratio Lower Upper
95 100
174 78.0 0.0 150.6
176 73.3 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064001.D
Acq: 8 Oct 2020 19:17

Tgt Ion: 117 Resp: 457810
Ion Ratio Lower Upper
117 100
82 58.9 47.4 71.2
119 31.1 26.4 39.6





#71

Bromoform

Concen: 0.373 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampled :

TB-10-8-20

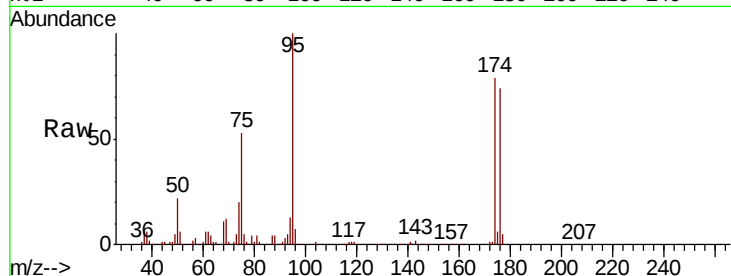
Tot Ion:173 Resp: 1027

Ion Ratio Lower Upper

173 100

175 941.7 23.5 70.5#

254 0.0 0.0 0.0

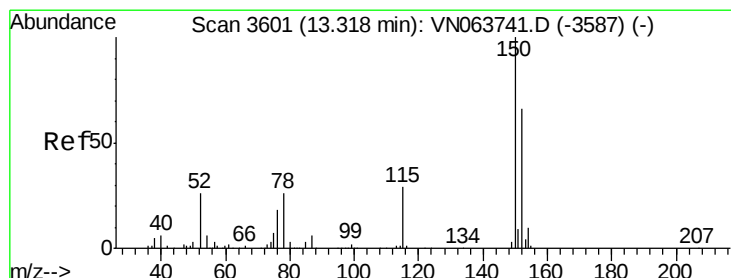
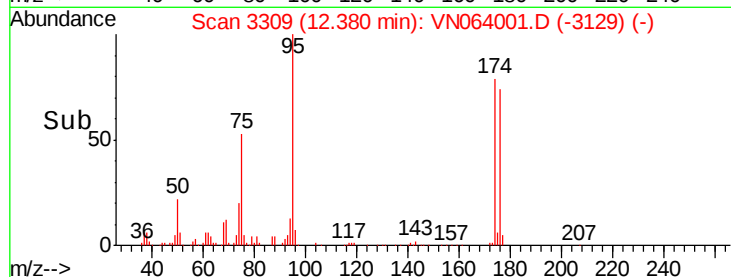
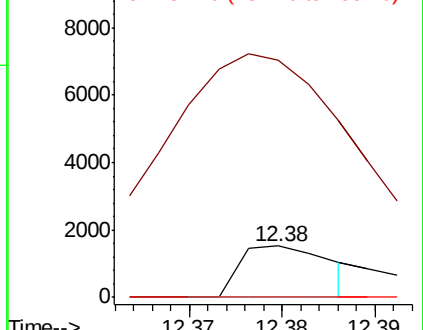


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN064001.D

Acq: 8 Oct 2020 19:17

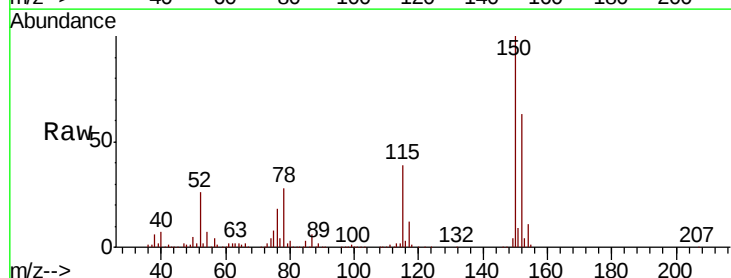
Tgt Ion:152 Resp: 176841

Ion Ratio Lower Upper

152 100

115 61.0 31.3 93.8

150 156.8 0.0 341.8

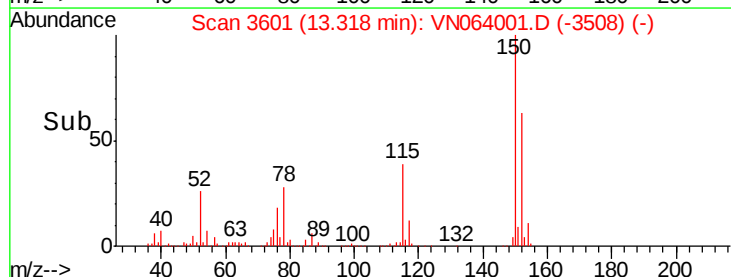
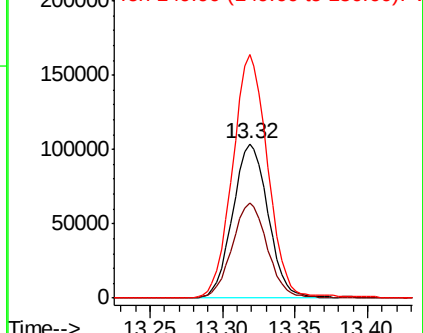


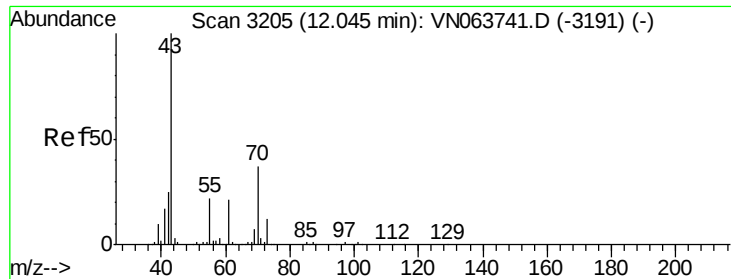
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.226 ug/l

RT: 12.04 min Scan# 3203

Delta R.T. -0.01 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

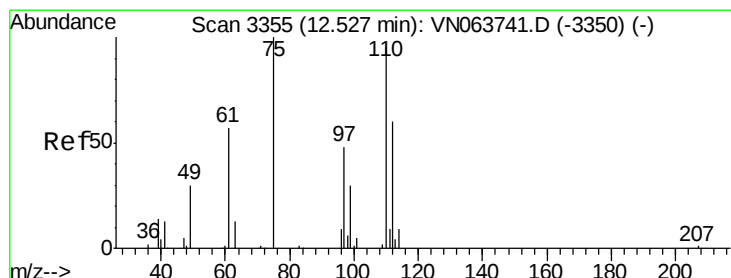
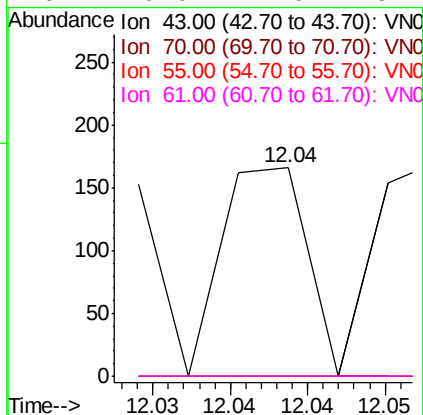
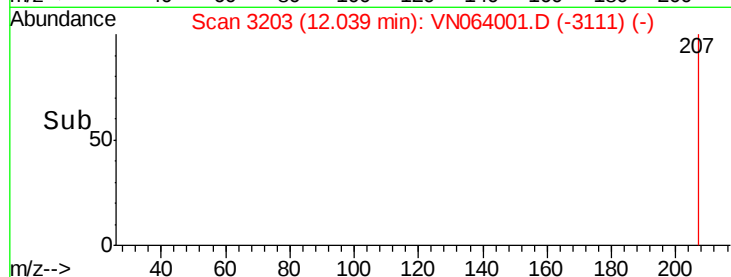
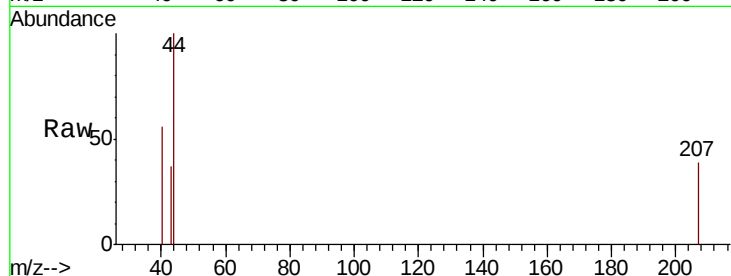
MSVOA_N

ClientSampled :

TB-10-8-20

Tot Ion: 43 Resp: 63

Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.8	44.8#
55	0.0	17.9	26.9#
61	0.0	17.0	25.4#



#76

1,2,3-Trichloropropane

Concen: 29.163 ug/l

RT: 12.38 min Scan# 3308

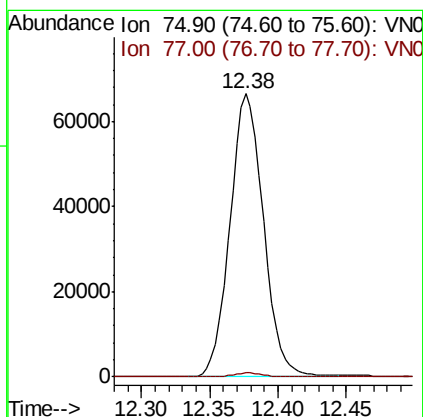
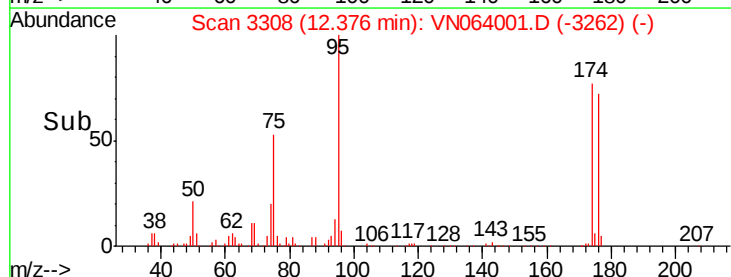
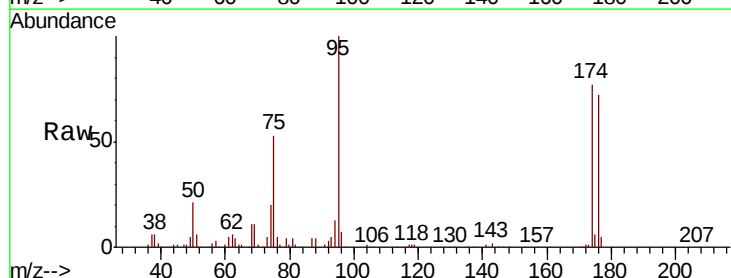
Delta R.T. -0.15 min

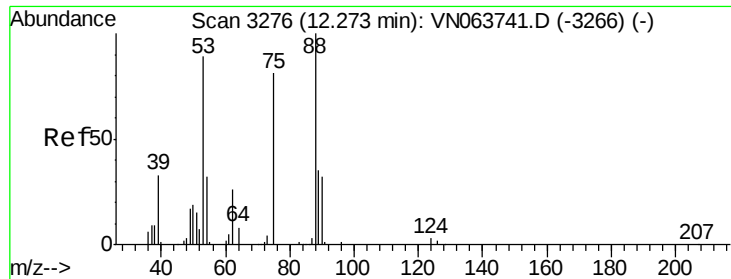
Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Tgt Ion: 75 Resp: 113685

Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 83.994 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064001.D

Acq: 8 Oct 2020 19:17

Instrument :

MSVOA_N

ClientSampleId :

TB-10-8-20

Tot Ion: 75 Resp: 113685

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

