

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063403.D
 Acq On : 17 Sep 2020 7:27
 Operator : JC/MD
 Sample : L4018-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LACY-08

Quant Time: Sep 17 07:50:58 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	219381	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	414162	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	405971	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176895	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	184947	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
35) Dibromofluoromethane	7.55	113	133612	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
50) Toluene-d8	10.06	98	531777	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.38	95	209664	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	

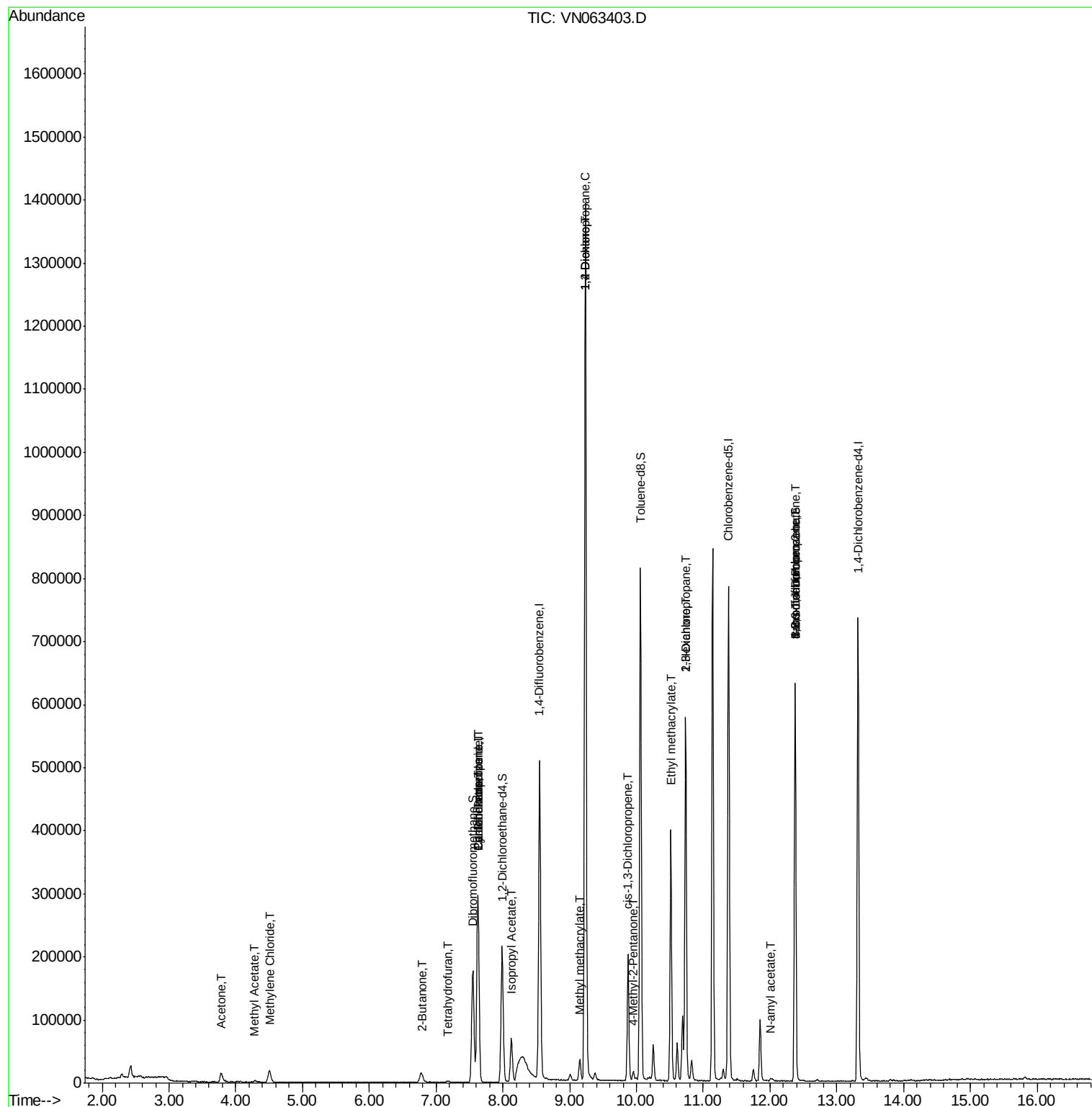
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	24602	20.498	ug/l	100
18) Methyl Acetate	4.28	43	4617	1.515	ug/l #	79
20) Methylene Chloride	4.51	84	12880	4.236	ug/l	95
25) 2-Butanone	6.80	43	4757	2.577	ug/l #	85
29) Tetrahydrofuran	7.17	42	635	0.504	ug/l #	71
31) Cyclohexane	7.62	56	6776	1.314	ug/l #	34
36) 1,1-Dichloropropene	7.62	75	20034	4.540	ug/l #	51
38) Carbon Tetrachloride	7.62	117	24672	5.478	ug/l #	18
43) Isopropyl Acetate	8.13	43	84486	10.911	ug/l	97
45) 1,2-Dichloropropane	9.23	63	1597	0.466	ug/l #	43
48) Methyl methacrylate	9.14	41	4770	1.254	ug/l #	15
49) 1,4-Dioxane	9.25	88	30	0.550	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9646	2.225	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	33611	6.094	ug/l #	61
56) Ethyl methacrylate	10.51	69	1304	0.278	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5891	1.086	ug/l #	42
59) 2-Hexanone	10.74	43	90101	28.689	ug/l #	53
71) Bromoform	12.38	173	1672	0.710	ug/l #	1
74) N-amyl acetate	12.01	43	2876	0.429	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	115813	26.451	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	115813	72.519	ug/l #	7

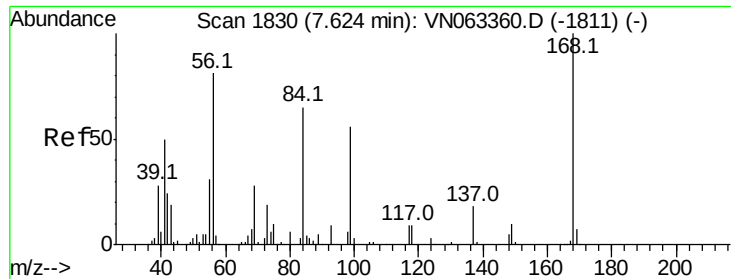
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampled :

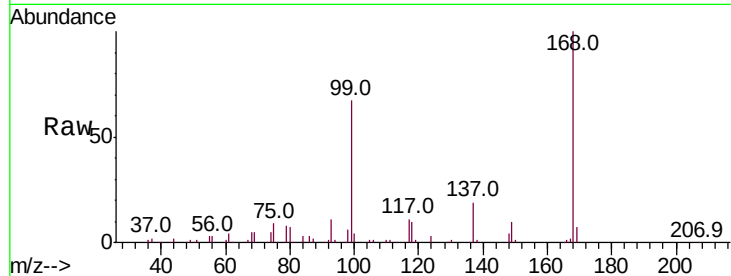
LACY-08

Tot Ion:168 Resp: 219381

Ion Ratio Lower Upper

168 100

99 66.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

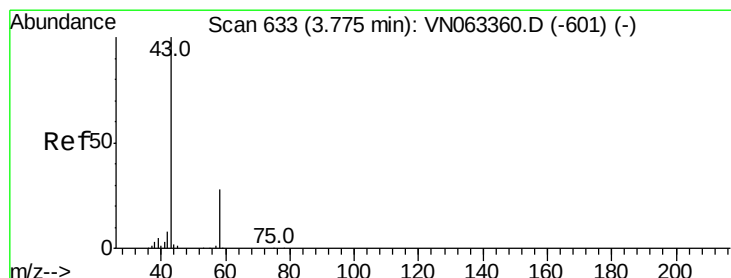
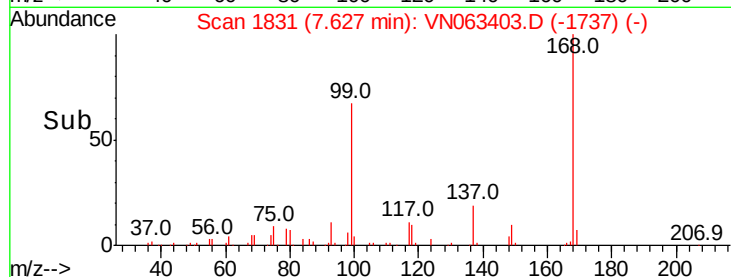
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 20.498 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063403.D

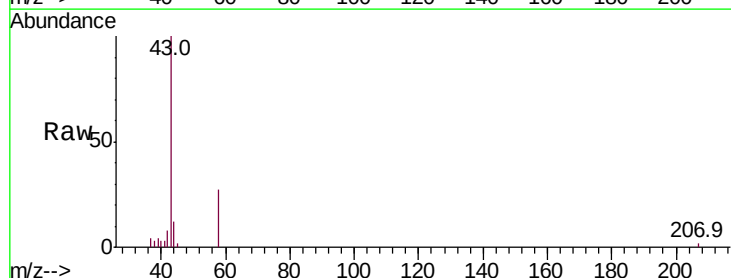
Acq: 17 Sep 2020 7:27

Tgt Ion: 43 Resp: 24602

Ion Ratio Lower Upper

43 100

58 27.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

10000

8000

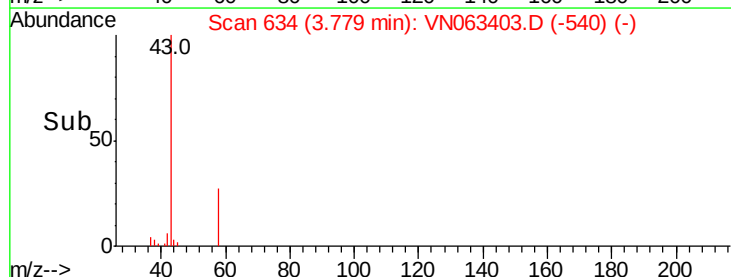
6000

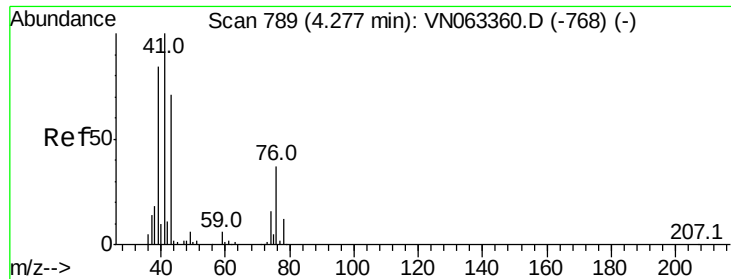
4000

2000

0

Time-->

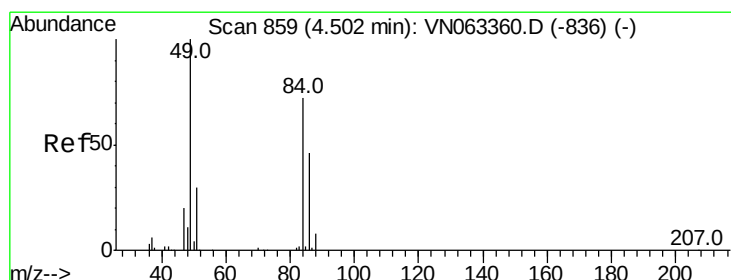
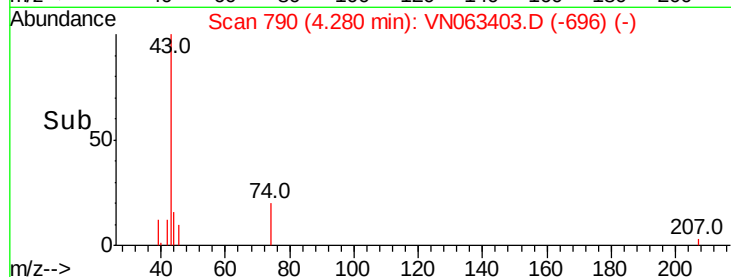
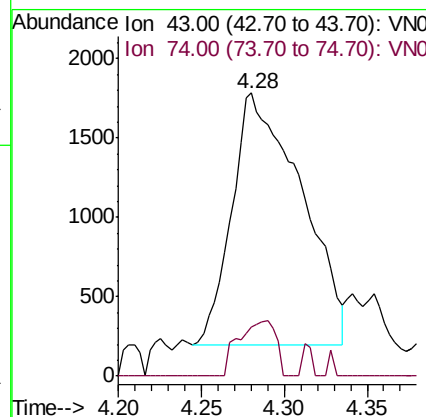
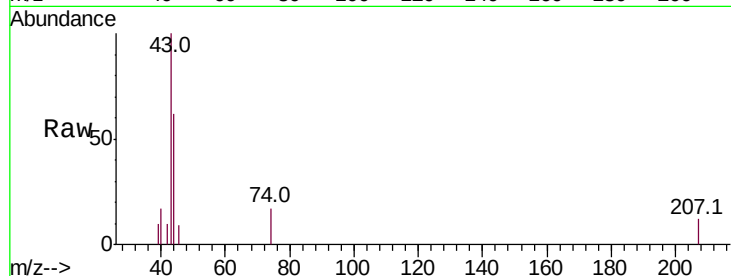




#18
Methvl Acetate
Concen: 1.515 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN063403.D
Acq: 17 Sep 2020 7:27

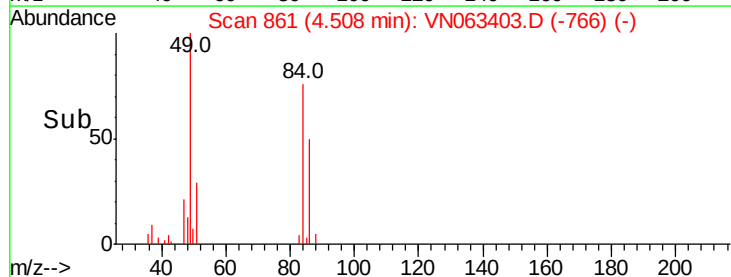
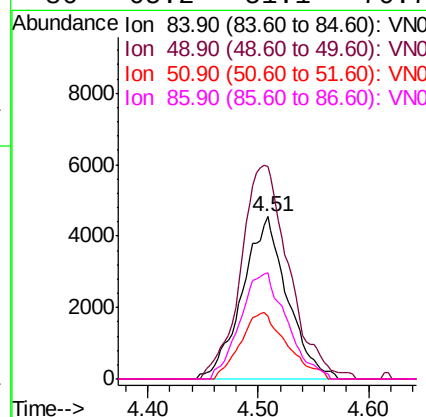
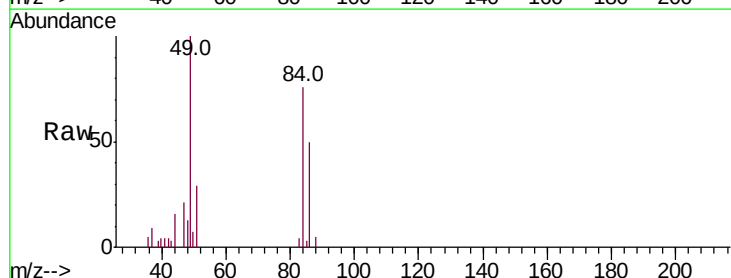
Instrument :
MSVOA_N
ClientSampleId :
LACY-08

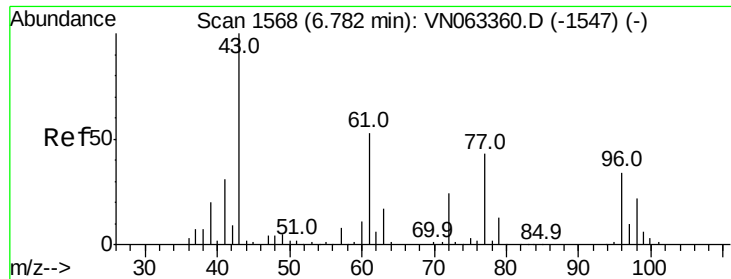
Tot Ion: 43 Resp: 4617
Ion Ratio Lower Upper
43 100
74 11.7 17.4 26.2#



#20
Methylene Chloride
Concen: 4.236 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063403.D
Acq: 17 Sep 2020 7:27

Tgt Ion: 84 Resp: 12880
Ion Ratio Lower Upper
84 100
49 131.0 110.7 166.1
51 38.4 32.9 49.3
86 65.2 51.1 76.7





#25

2-Butanone

Concen: 2.577 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. 0.02 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampled :

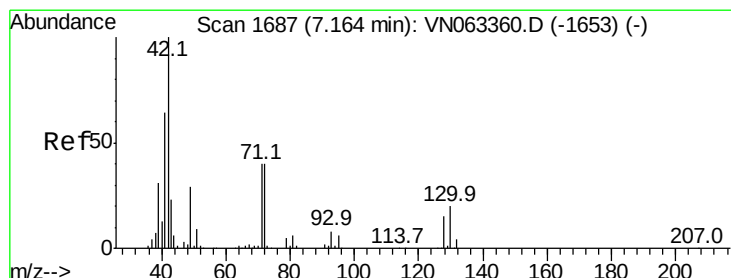
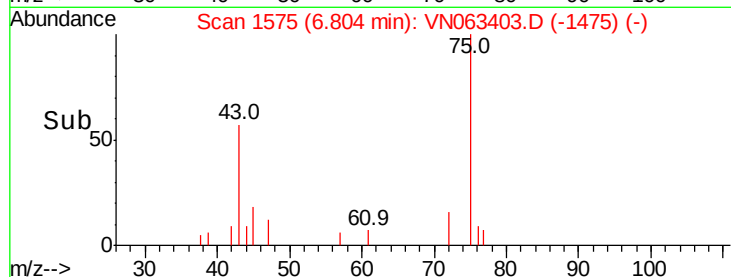
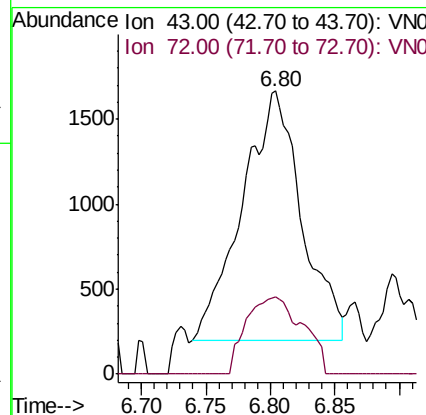
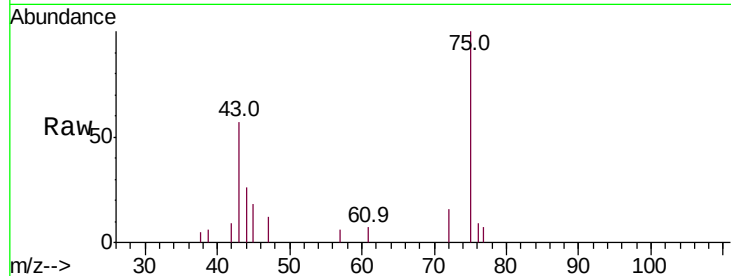
LACY-08

Tot Ion: 43 Resp: 4757

Ion Ratio Lower Upper

43 100

72 31.2 19.2 28.8#



#29

Tetrahydrofuran

Concen: 0.504 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

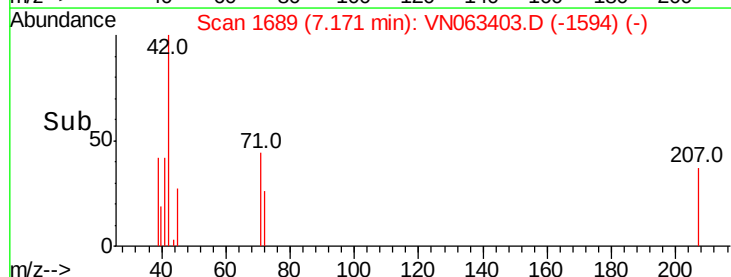
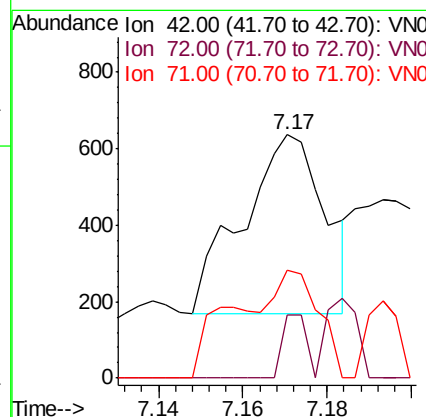
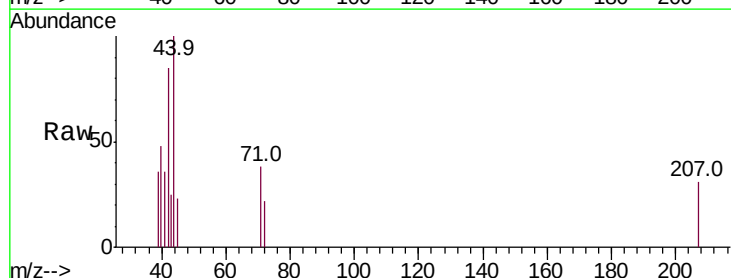
Tgt Ion: 42 Resp: 635

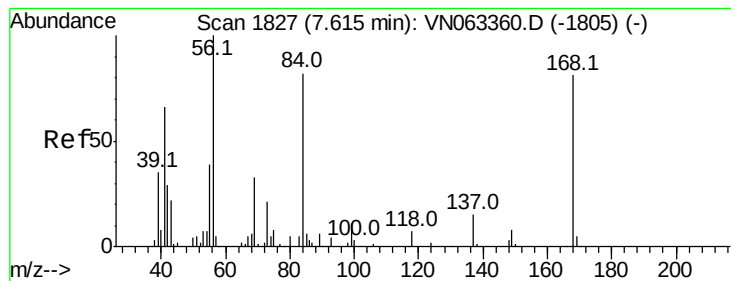
Ion Ratio Lower Upper

42 100

72 9.9 32.1 48.1#

71 33.4 31.2 46.8





#31

Cyclohexane

Concen: 1.314 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampled :

LACY-08

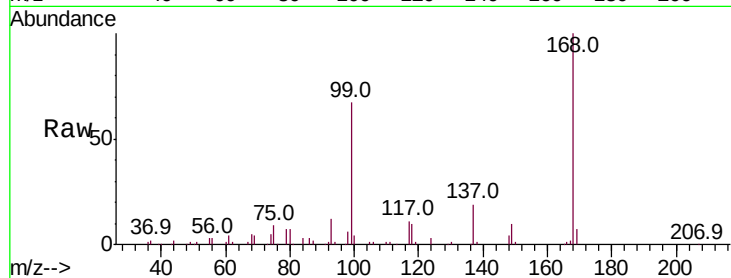
Tot Ion: 56 Resp: 6776

Ion Ratio Lower Upper

56 100

69 149.8 26.1 39.1#

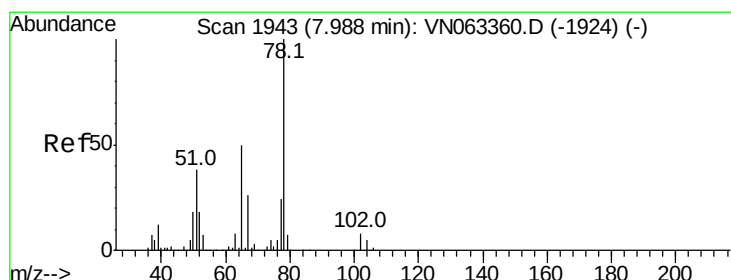
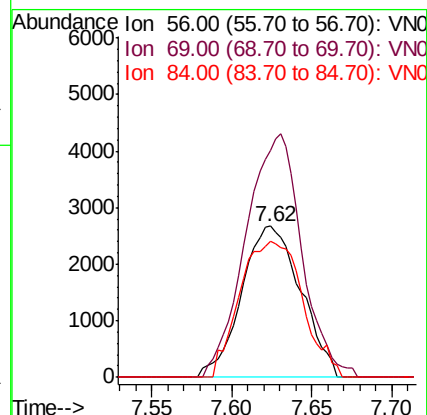
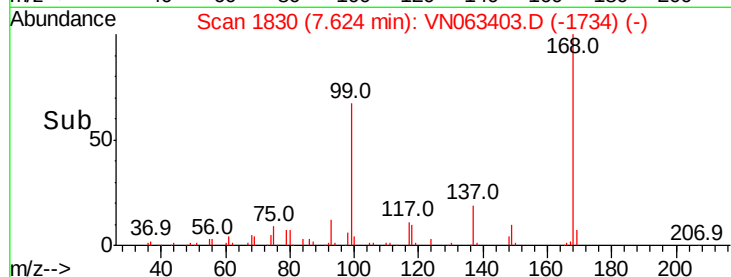
84 90.1 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 49.525 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063403.D

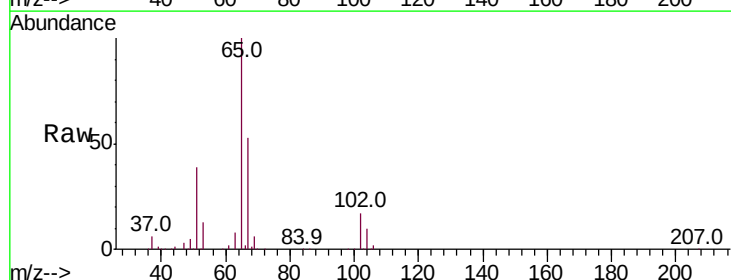
Acq: 17 Sep 2020 7:27

Tgt Ion: 65 Resp: 184947

Ion Ratio Lower Upper

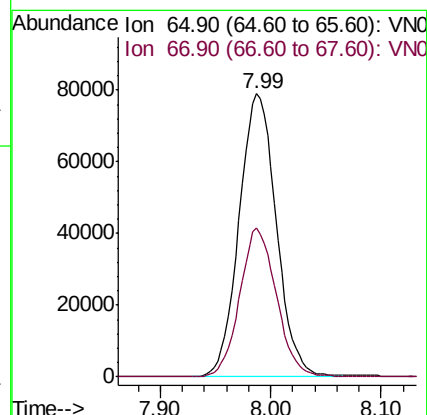
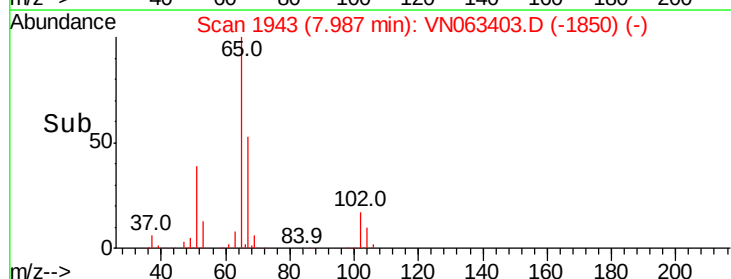
65 100

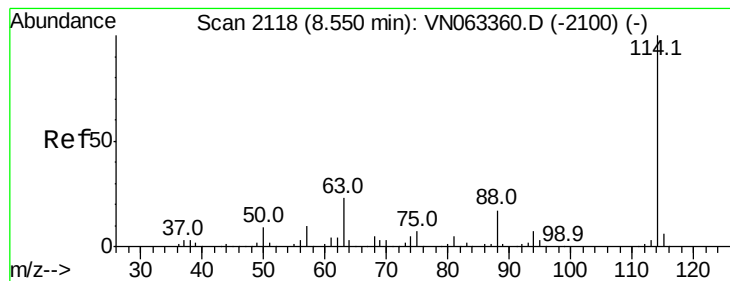
67 51.7 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

LACY-08

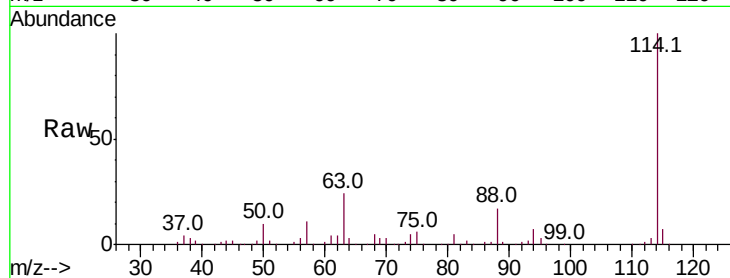
Tot Ion:114 Resp: 414162

Ion Ratio Lower Upper

114 100

63 23.7 0.0 46.4

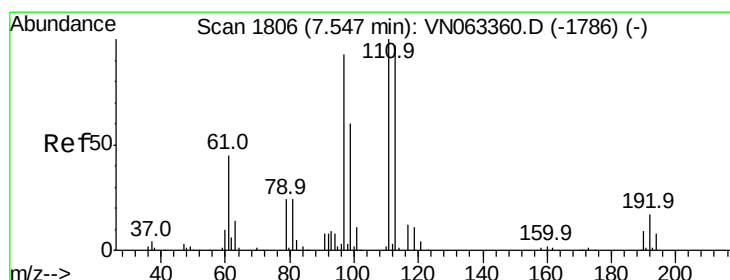
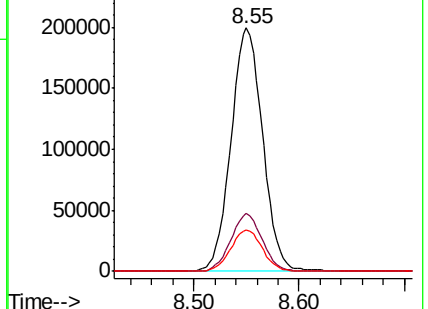
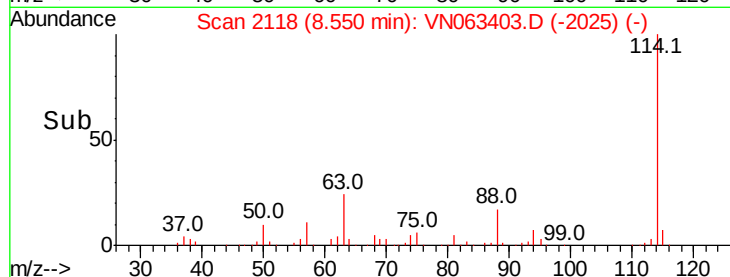
88 16.8 0.0 33.2



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: 46.601 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

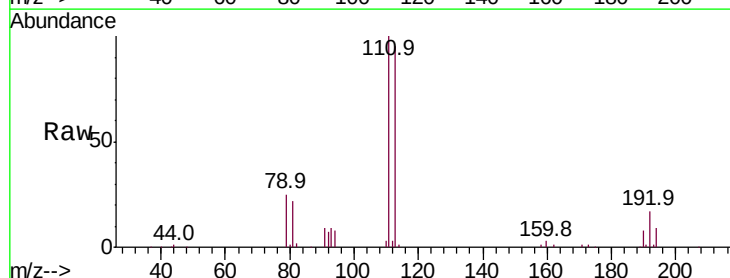
Tgt Ion:113 Resp: 133612

Ion Ratio Lower Upper

113 100

111 102.3 82.9 124.3

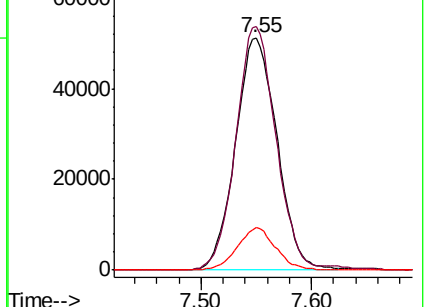
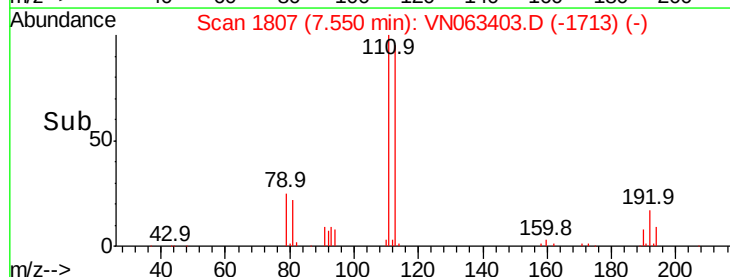
192 16.8 13.9 20.9

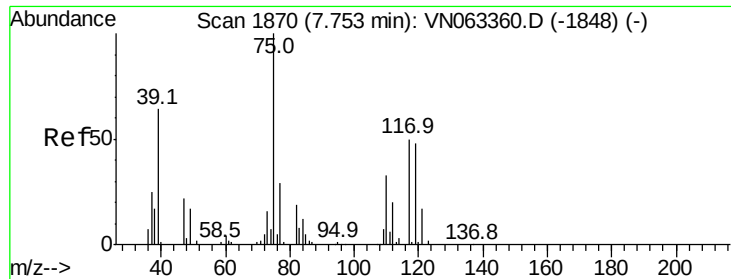


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.540 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampled :

LACY-08

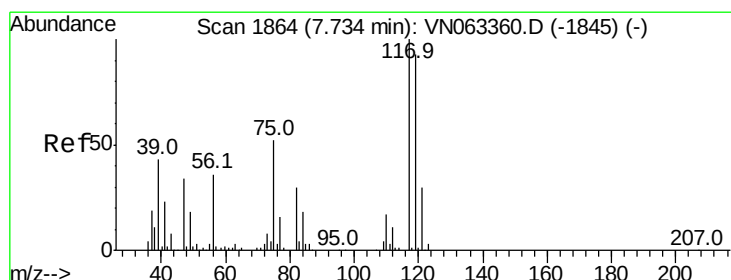
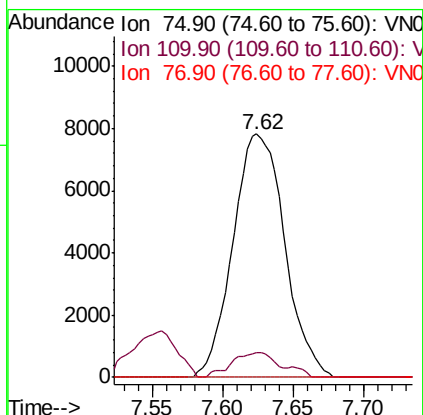
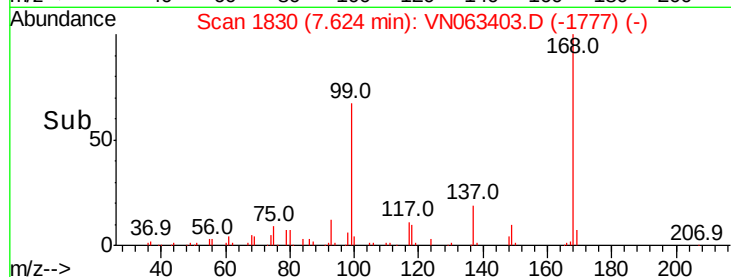
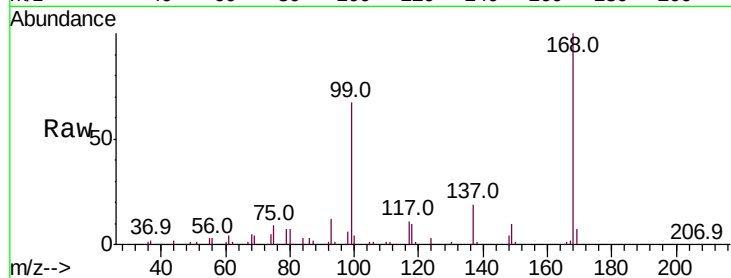
Tot Ion: 75 Resp: 20034

Ion Ratio Lower Upper

75 100

110 8.6 16.5 49.5#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.478 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

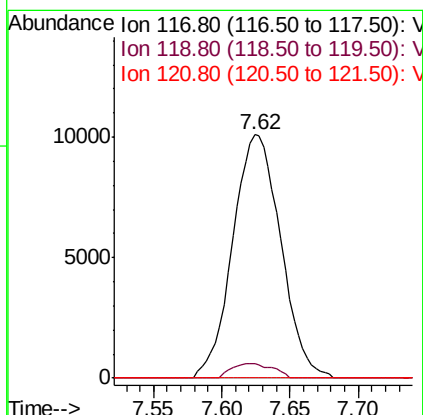
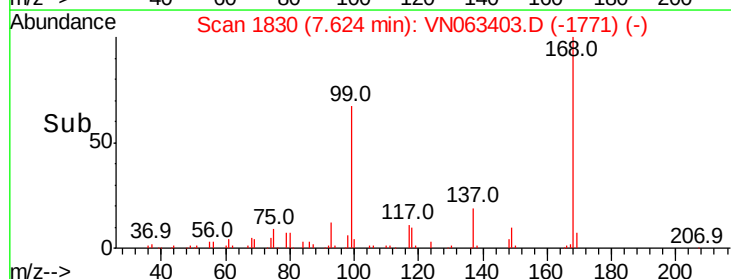
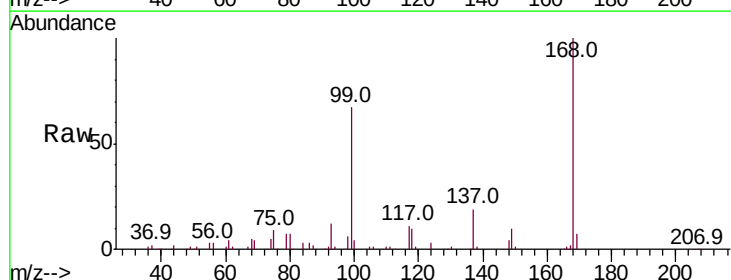
Tgt Ion: 117 Resp: 24672

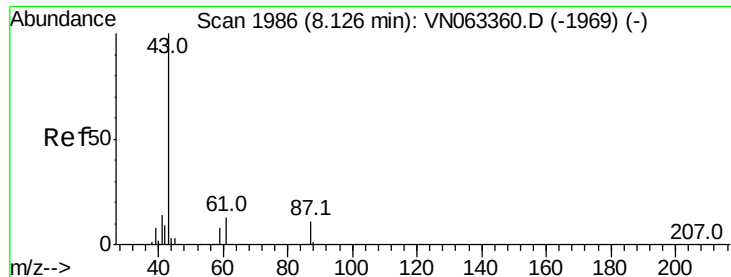
Ion Ratio Lower Upper

117 100

119 6.1 74.5 111.7#

121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 10.911 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

LACY-08

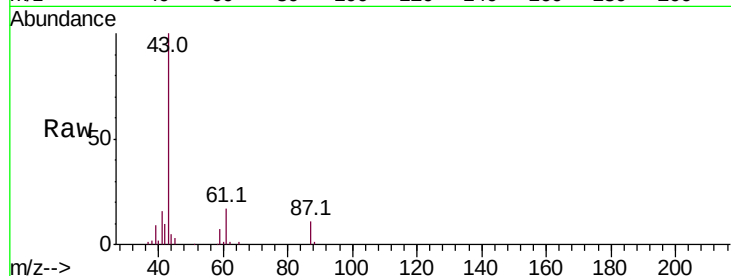
Tot Ion: 43 Resp: 84486

Ion Ratio Lower Upper

43 100

61 19.2 14.2 21.2

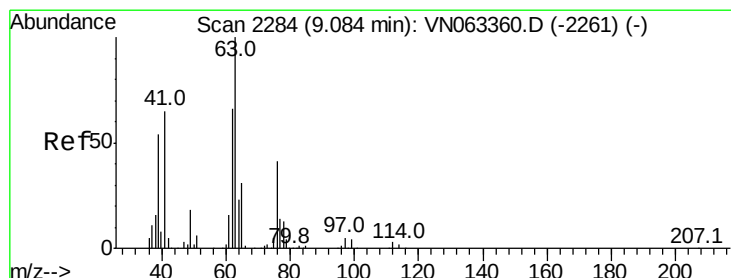
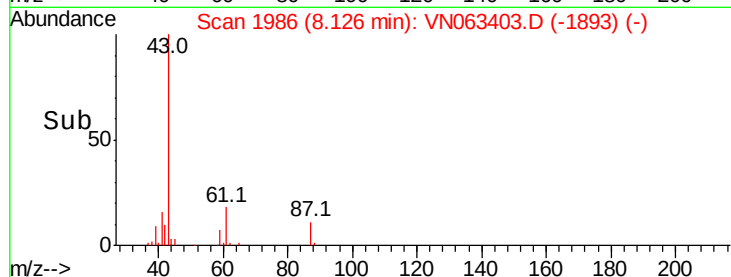
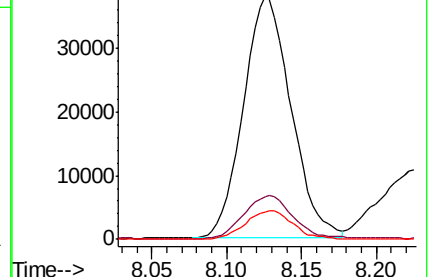
87 11.8 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.466 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063403.D

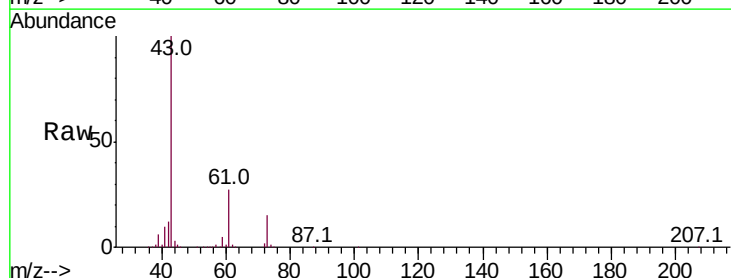
Acq: 17 Sep 2020 7:27

Tgt Ion: 63 Resp: 1597

Ion Ratio Lower Upper

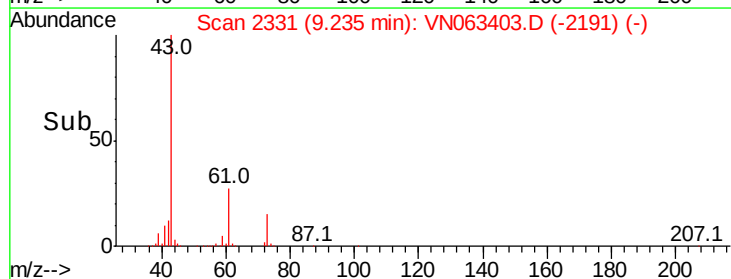
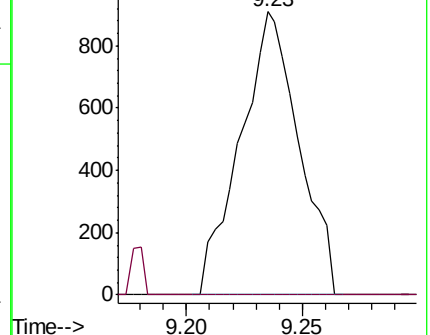
63 100

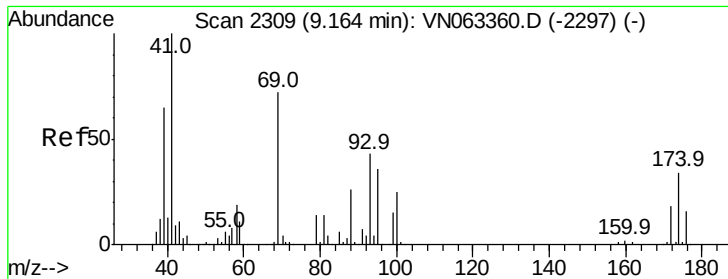
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

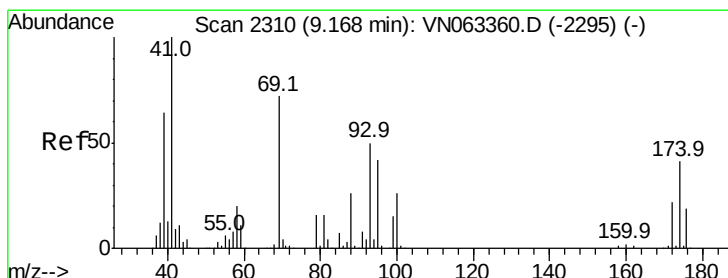
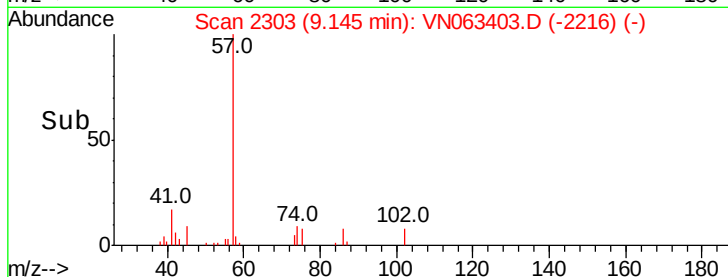
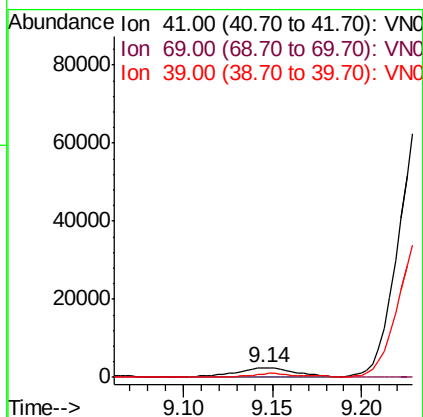
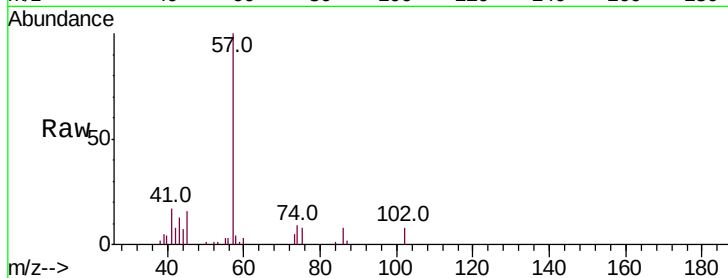




#48
Methvl methacrylate
Concen: 1.254 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN063403.D
Acq: 17 Sep 2020 7:27

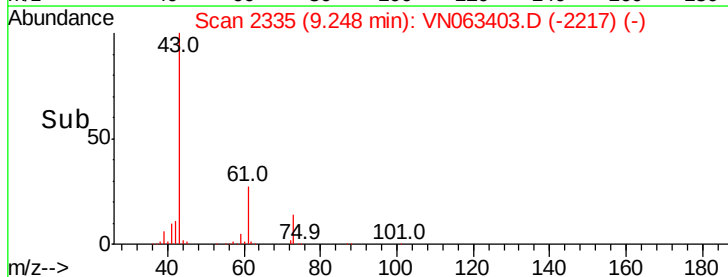
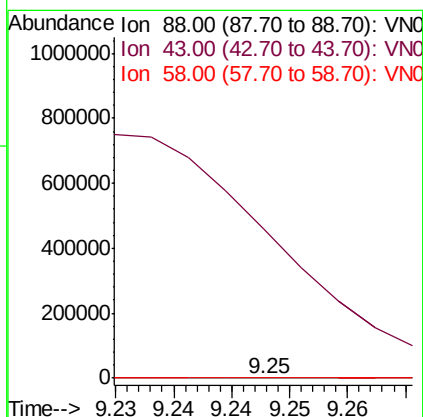
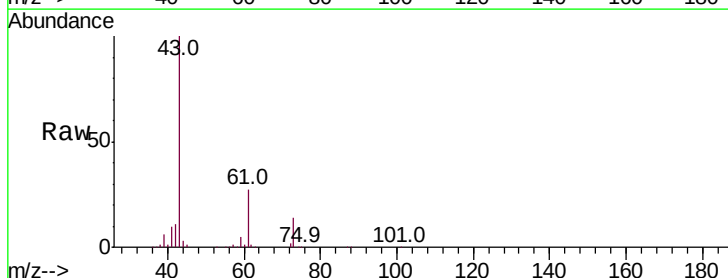
Instrument :
MSVOA_N
ClientSampleId :
LACY-08

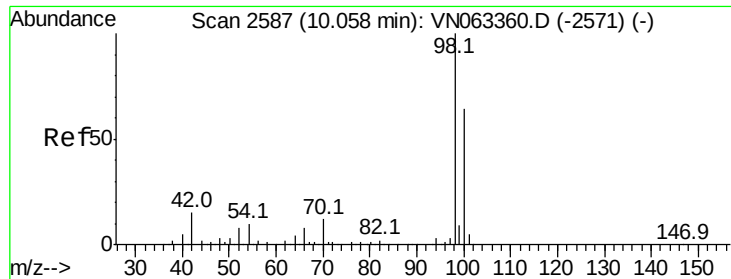
Tot Ion: 41 Resp: 4770
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#49
1,4-Dioxane
Concen: 0.550 ug/l
RT: 9.25 min Scan# 2335
Delta R.T. 0.08 min
Lab File: VN063403.D
Acq: 17 Sep 2020 7:27

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 4654276.7 32.6 49.0#
58 19003.3 60.0 90.0#





#50

Toluene-d8

Concen: 49.325 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

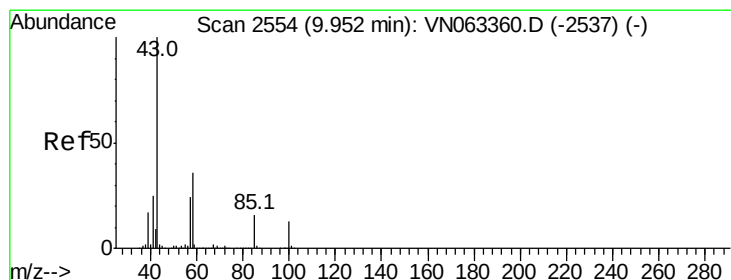
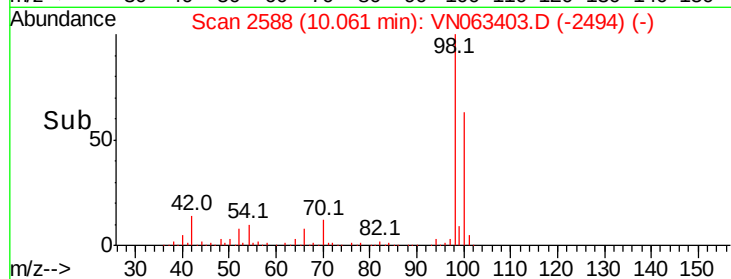
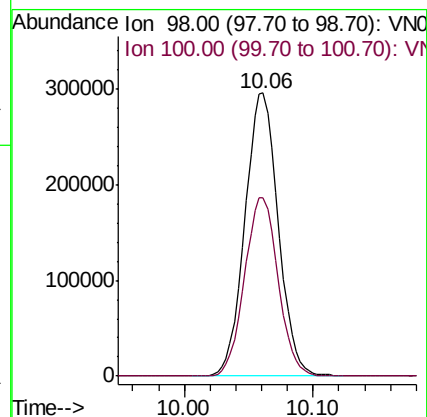
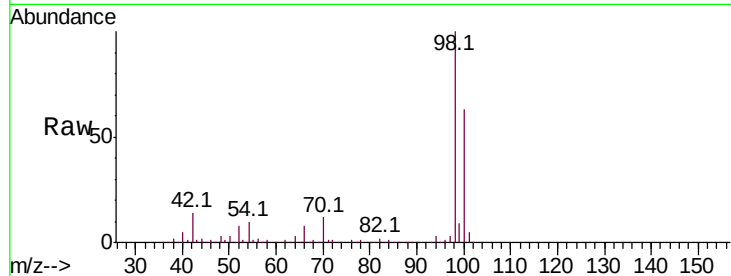
LACY-08

Tot Ion: 98 Resp: 531777

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 2.225 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN063403.D

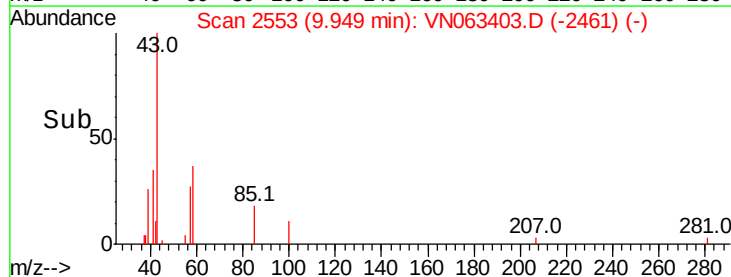
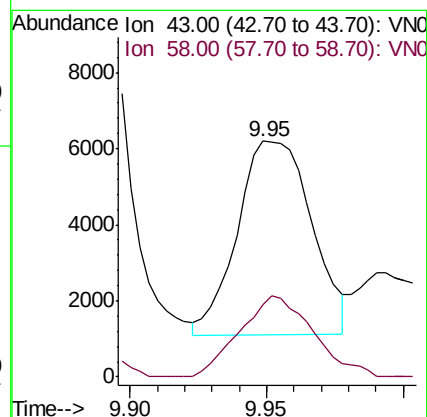
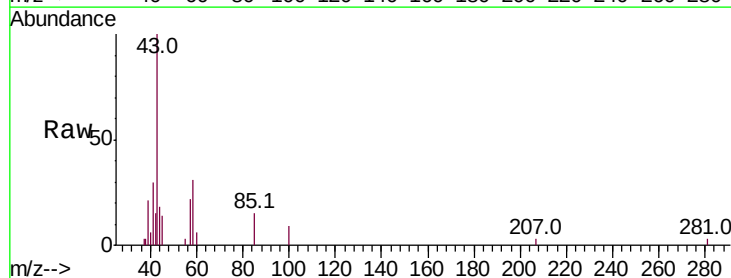
Acq: 17 Sep 2020 7:27

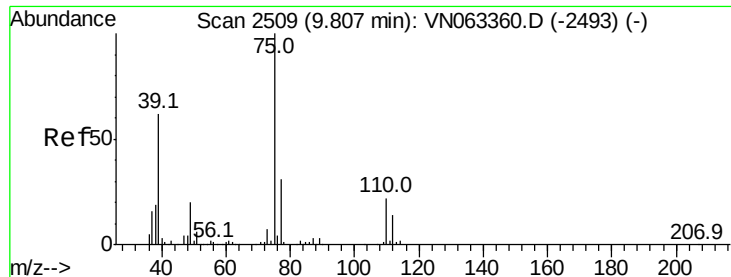
Tgt Ion: 43 Resp: 9646

Ion Ratio Lower Upper

43 100

58 41.5 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 6.094 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampled :

LACY-08

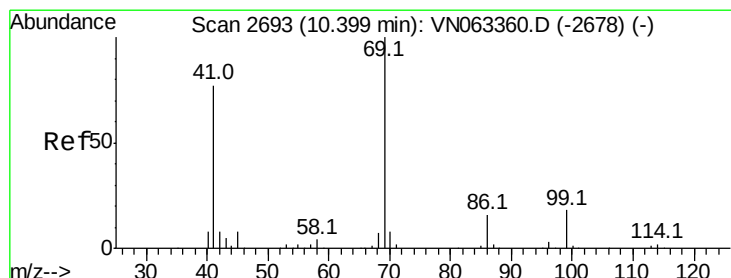
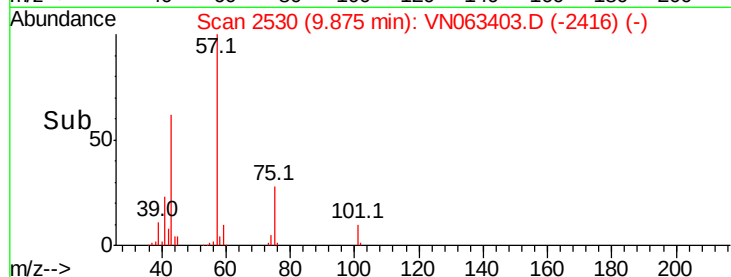
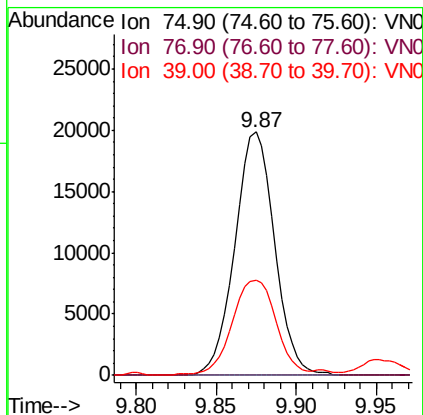
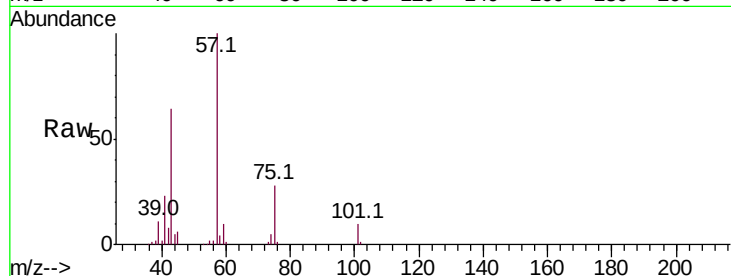
Tot Ion: 75 Resp: 33611

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 38.3 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.278 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

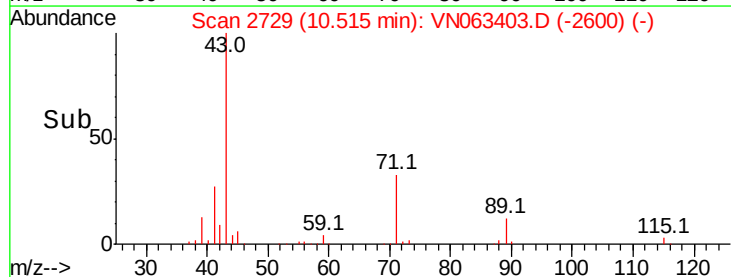
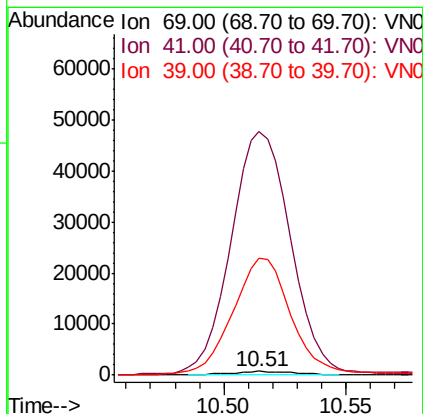
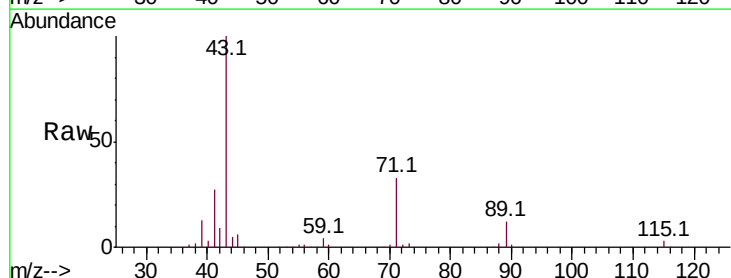
Tgt Ion: 69 Resp: 1304

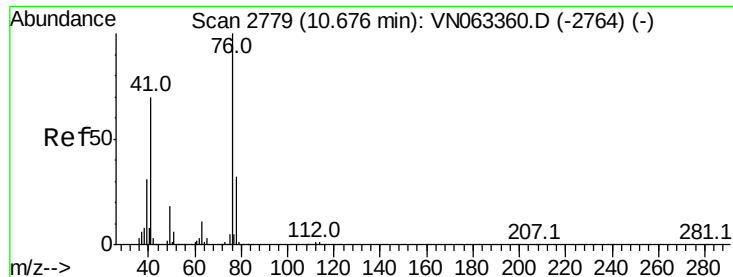
Ion Ratio Lower Upper

69 100

41 6339.0 61.0 91.6#

39 2932.5 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 1.086 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

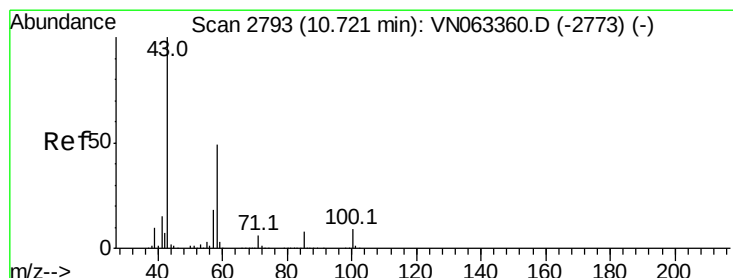
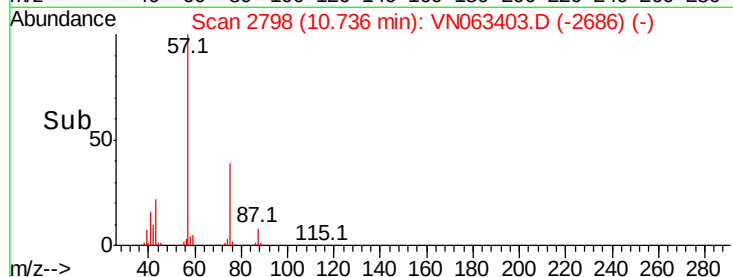
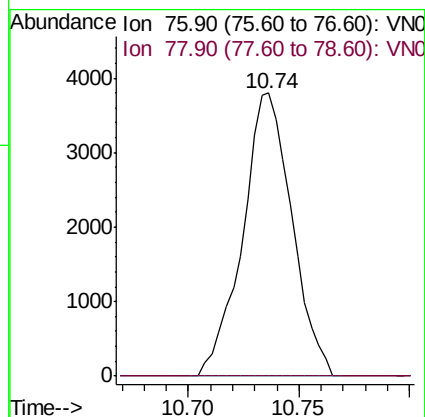
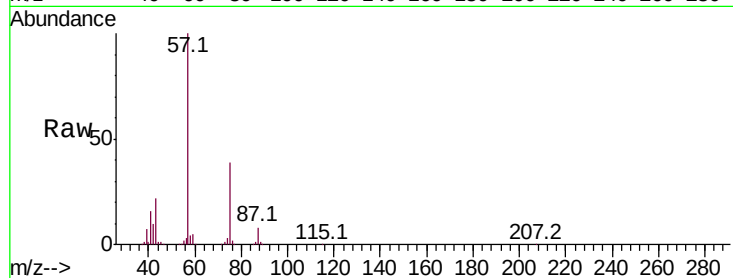
LACY-08

Tot Ion: 76 Resp: 5891

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 28.689 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063403.D

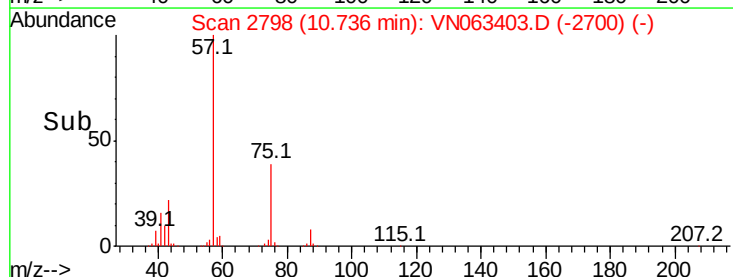
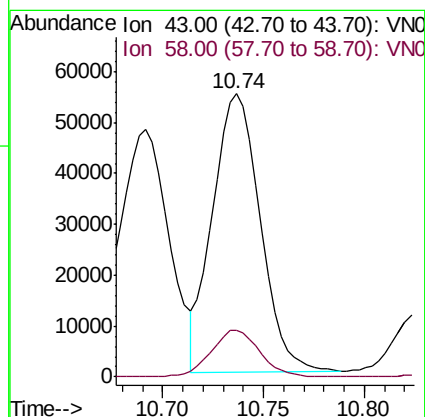
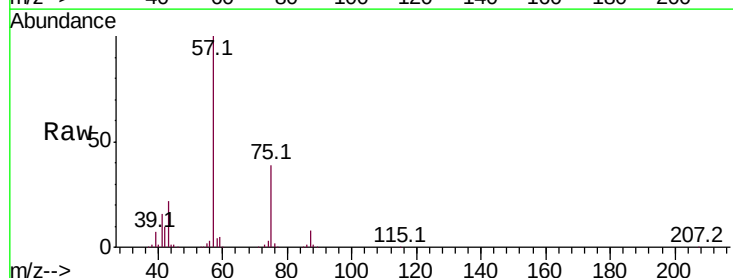
Acq: 17 Sep 2020 7:27

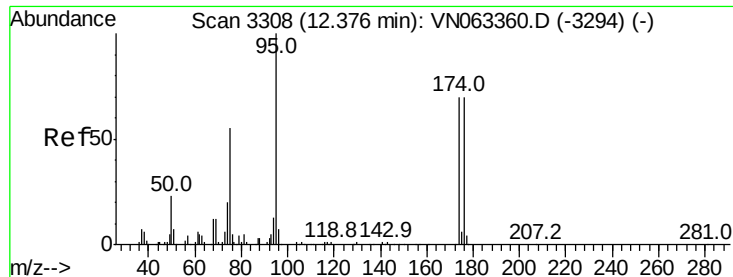
Tgt Ion: 43 Resp: 90101

Ion Ratio Lower Upper

43 100

58 17.0 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 53.051 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

LACY-08

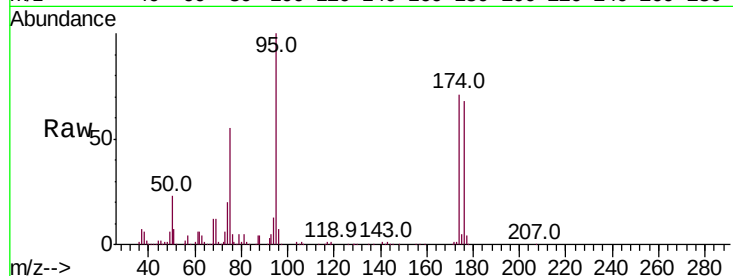
Tot Ion: 95 Resp: 209664

Ion Ratio Lower Upper

95 100

174 70.3 0.0 140.8

176 67.4 0.0 137.6

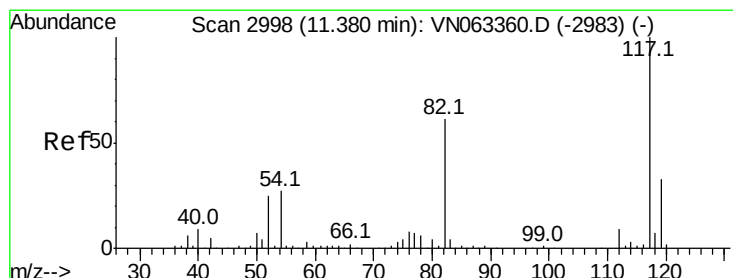
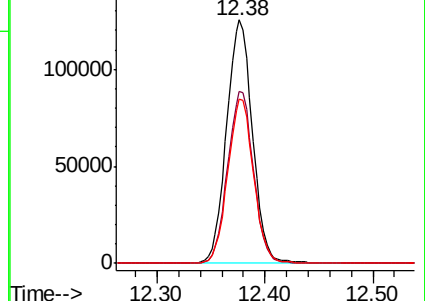
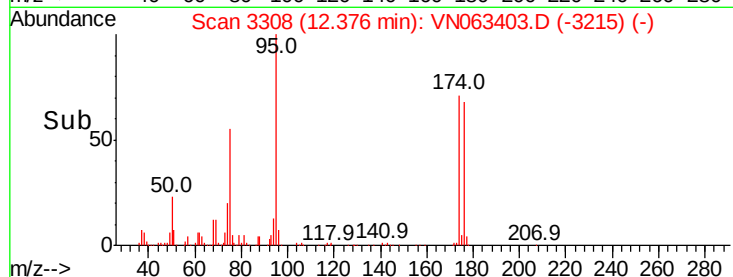


Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

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

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

12.38



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

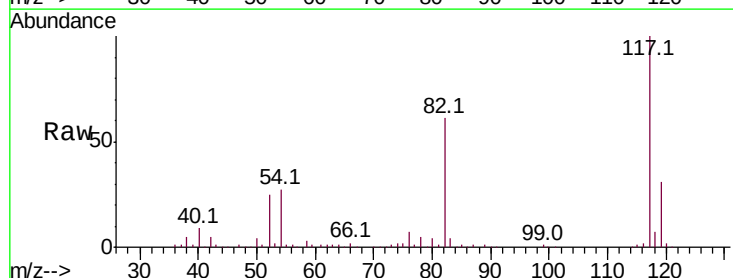
Tgt Ion: 117 Resp: 405971

Ion Ratio Lower Upper

117 100

82 61.4 49.2 73.8

119 31.3 26.2 39.4

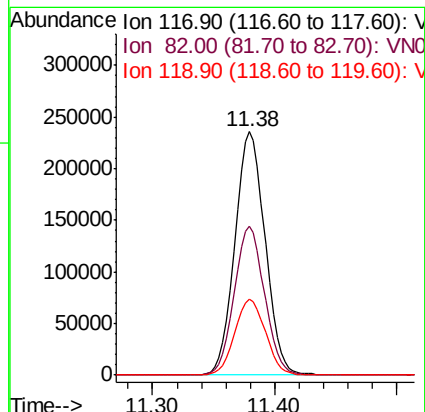
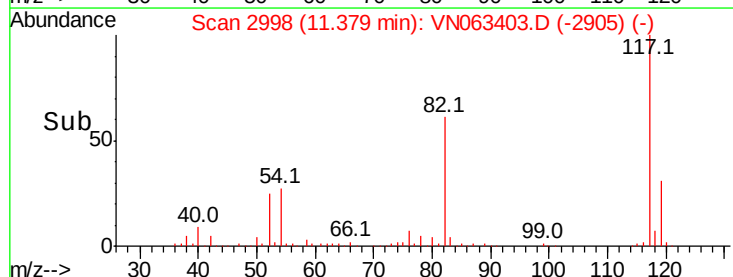


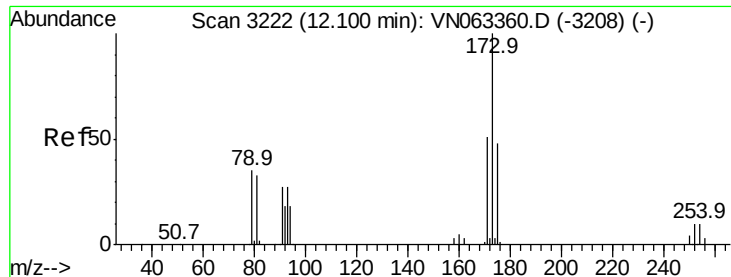
Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

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

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

11.38





#71

Bromoform

Concen: 0.710 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

LACY-08

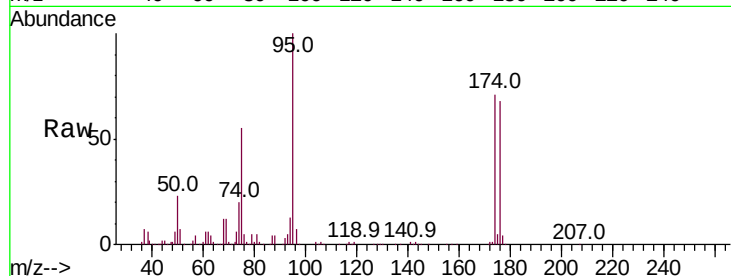
Tot Ion:173 Resp: 1672

Ion Ratio Lower Upper

173 100

175 542.3 24.0 72.0#

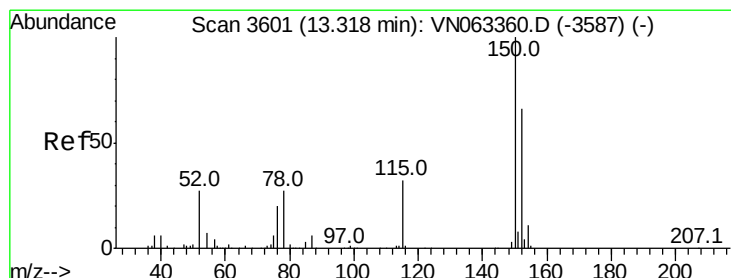
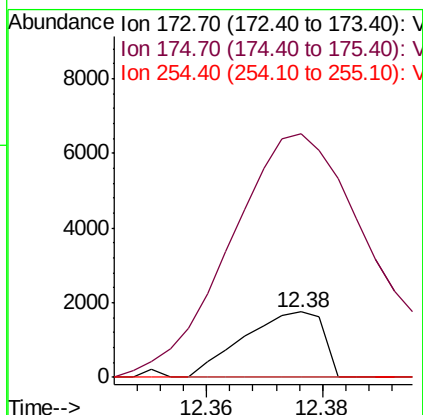
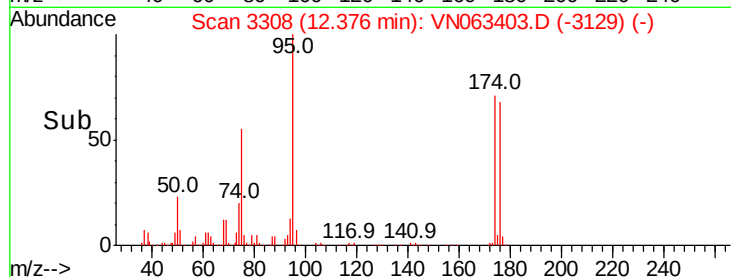
254 0.0 0.0 0.0



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: VN063403.D

Acq: 17 Sep 2020 7:27

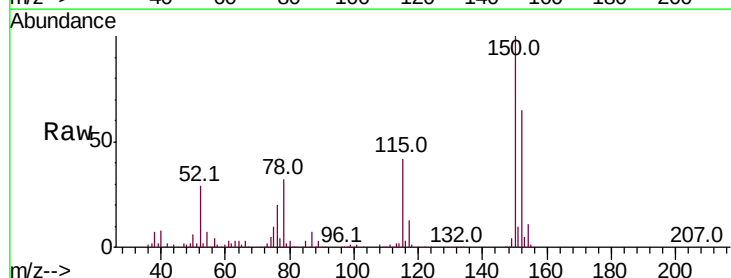
Tgt Ion:152 Resp: 176895

Ion Ratio Lower Upper

152 100

115 63.7 32.2 96.6

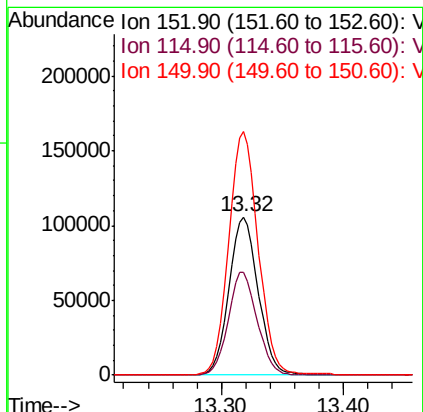
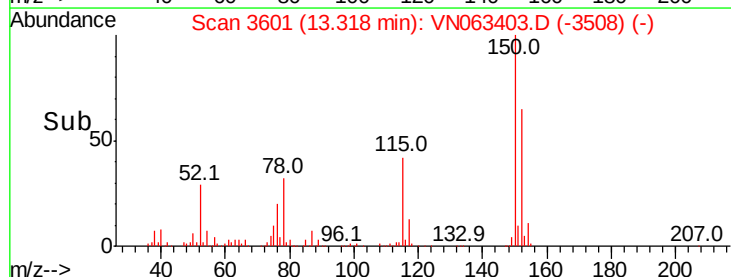
150 155.1 0.0 343.4

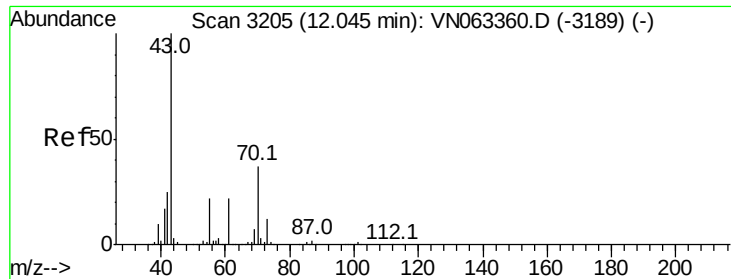


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.429 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampled :

LACY-08

Tot Ion: 43 Resp: 2876

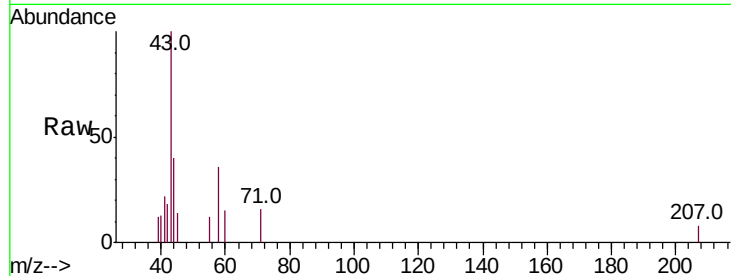
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 11.4 17.7 26.5#

61 0.0 17.4 26.2#

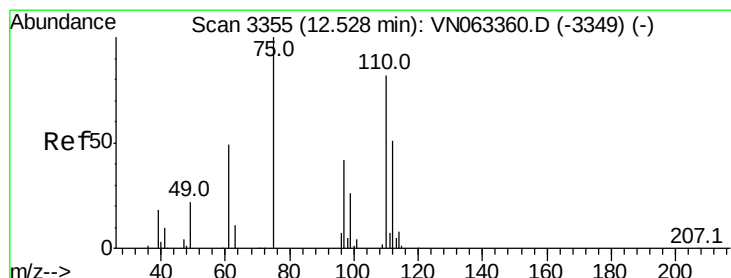
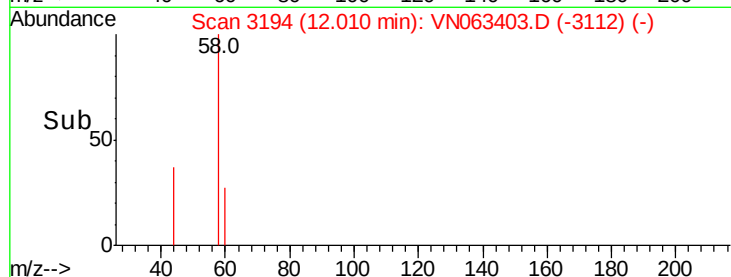
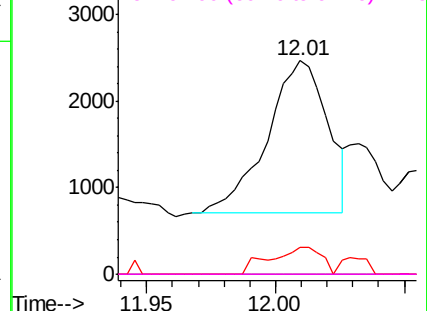


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.451 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063403.D

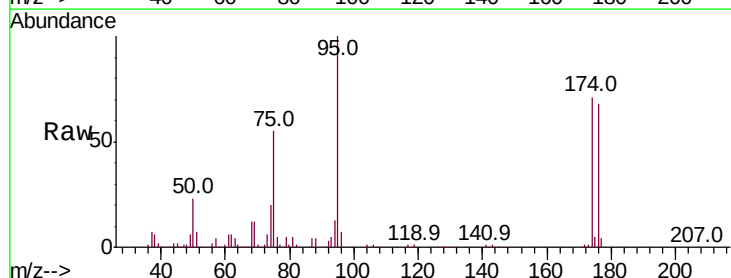
Acq: 17 Sep 2020 7:27

Tgt Ion: 75 Resp: 115813

Ion Ratio Lower Upper

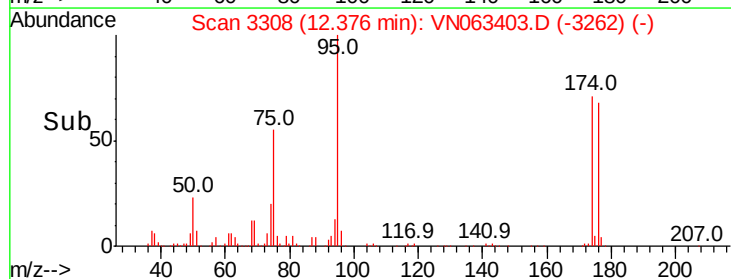
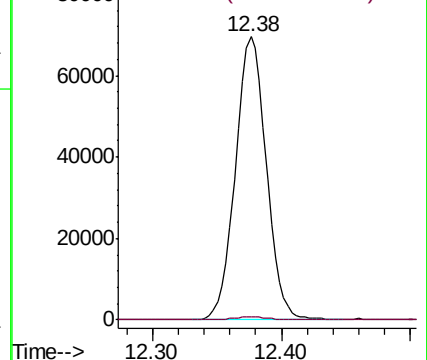
75 100

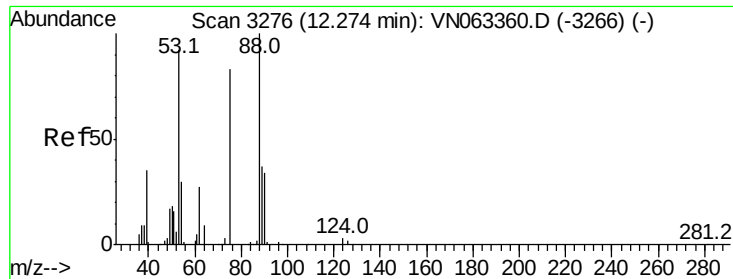
77 1.1 0.0 0.0#



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: 72.519 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063403.D

Acq: 17 Sep 2020 7:27

Instrument :

MSVOA_N

ClientSampleId :

LACY-08

Tot Ion: 75 Resp: 115813

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

