

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063615.D
 Acq On : 24 Sep 2020 2:53
 Operator : JC/MD
 Sample : PB131813ZHE#14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131813ZHE#14

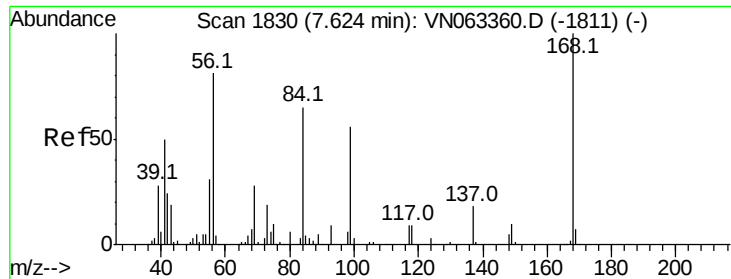
Quant Time: Sep 24 05:04:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	399466	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	405942	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	169520	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	178166	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
35) Dibromofluoromethane	7.55	113	127974	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	
50) Toluene-d8	10.06	98	515412	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	12.38	95	199883	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	495	0.307	ug/l #	74
16) Acetone	3.78	43	12293	11.002	ug/l	97
18) Methyl Acetate	4.29	43	4771	1.682	ug/l #	81
20) Methylene Chloride	4.50	84	9413	3.325	ug/l #	84
25) 2-Butanone	6.79	43	1905	1.109	ug/l #	51
29) Tetrahydrofuran	7.17	42	1190	1.014	ug/l #	46
31) Cyclohexane	7.63	56	5757	1.199	ug/l #	30
36) 1,1-Dichloropropene	7.63	75	19272	4.528	ug/l #	51
38) Carbon Tetrachloride	7.63	117	21973	5.058	ug/l #	16
43) Isopropyl Acetate	8.13	43	79990	10.710	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1568	0.474	ug/l #	43
48) Methyl methacrylate	9.14	41	4232	1.153	ug/l #	15
49) 1,4-Dioxane	9.17	88	95	1.804	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	10487	2.508	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	32259	6.064	ug/l #	67
56) Ethyl methacrylate	10.52	69	1788	0.395	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5169	0.988	ug/l #	42
59) 2-Hexanone	10.74	43	90736	29.954	ug/l #	55
74) N-amyl acetate	12.01	43	4700	0.731	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	112550	26.824	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4188	0.370	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	112550	73.541	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063615.D

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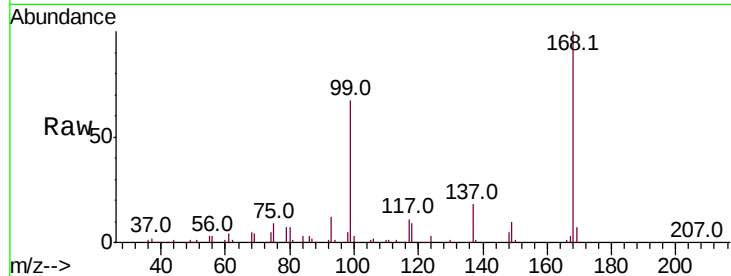
PB131813ZHE#14

Tot Ion:168 Resp: 204237

Ion Ratio Lower Upper

168 100

99 66.6 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

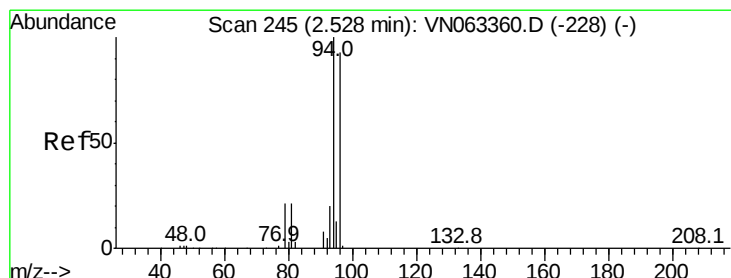
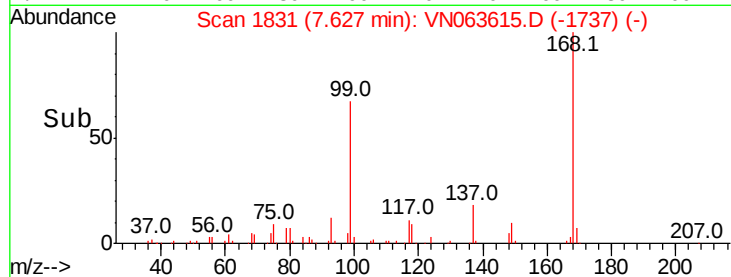
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#5

Bromomethane

Concen: 0.307 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.03 min

Lab File: VN063615.D

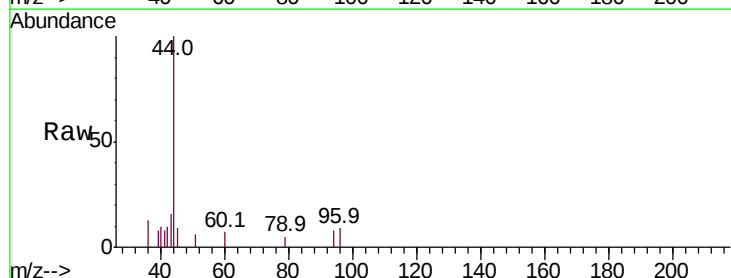
Acq: 24 Sep 2020 2:53

Tgt Ion: 94 Resp: 495

Ion Ratio Lower Upper

94 100

96 118.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN063360.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN063360.D (-228) (-)

2.55

400

300

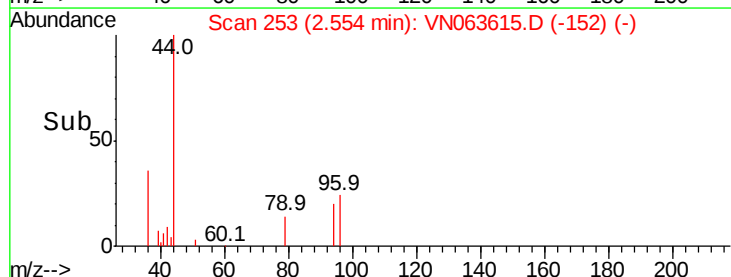
200

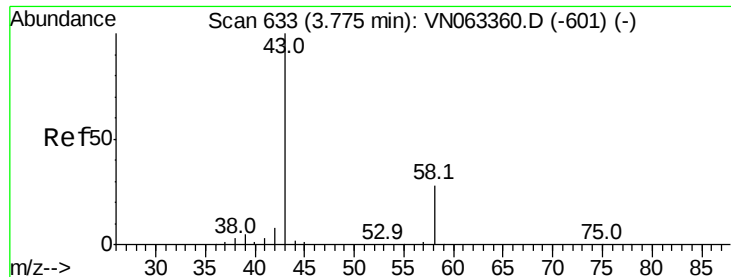
100

0

2.52 2.54 2.56 2.58

Time-->





#16

Acetone

Concen: 11.002 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

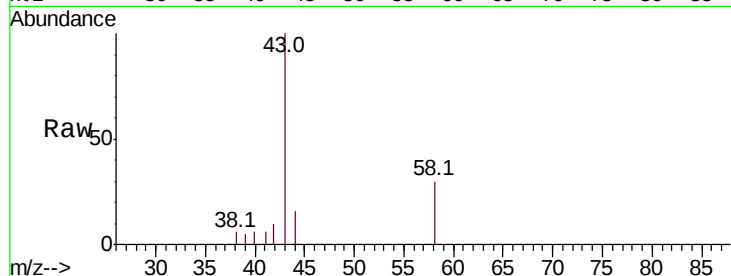
PB131813ZHE#14

Tot Ion: 43 Resp: 12293

Ion Ratio Lower Upper

43 100

58 29.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

3.78

4000

3000

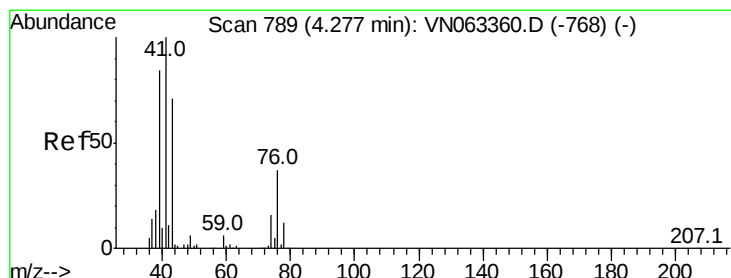
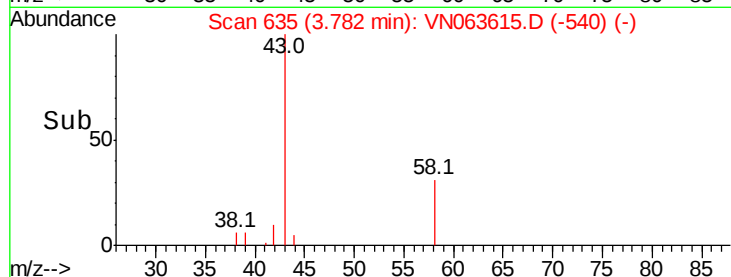
2000

1000

0

Time-->

3.70 3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 1.682 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063615.D

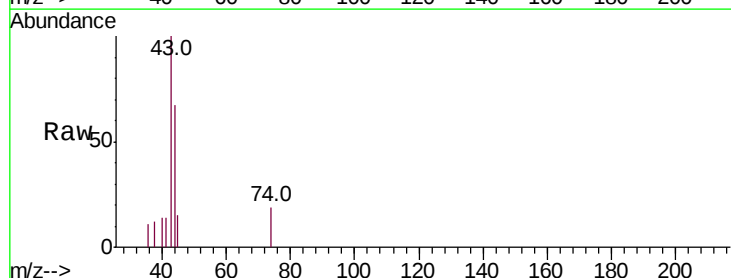
Acq: 24 Sep 2020 2:53

Tgt Ion: 43 Resp: 4771

Ion Ratio Lower Upper

43 100

74 12.7 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN063360.D (-768) (-)

4.29

1500

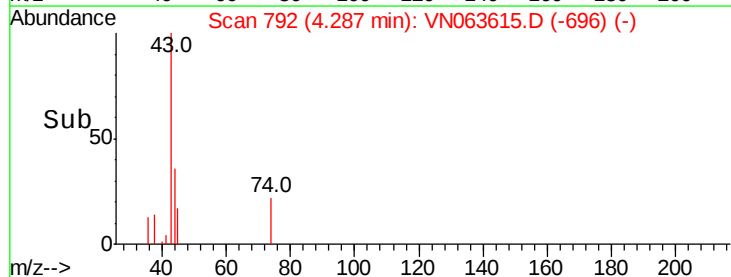
1000

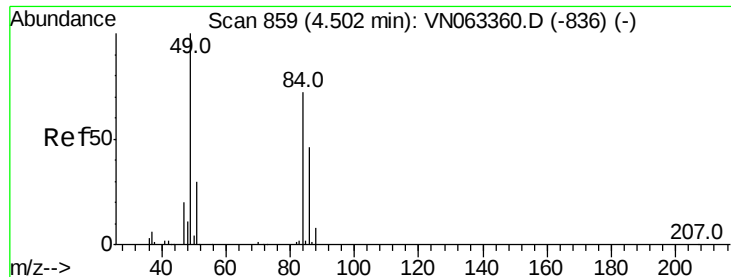
500

0

Time-->

4.20 4.25 4.30 4.35

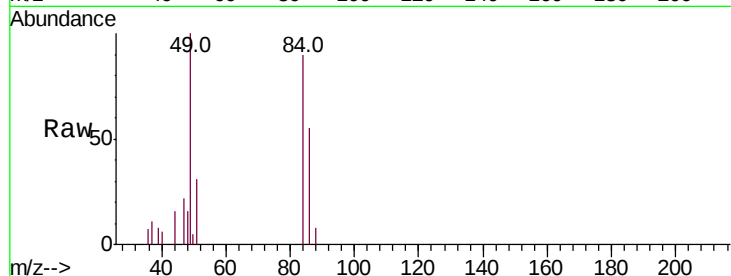




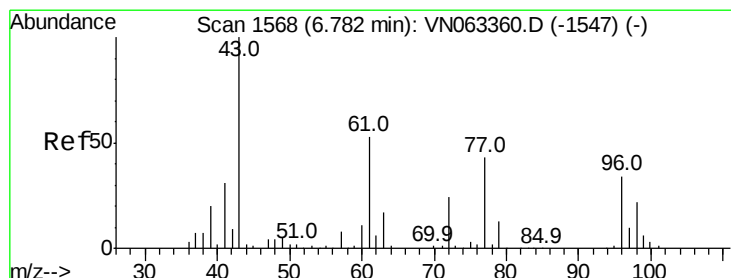
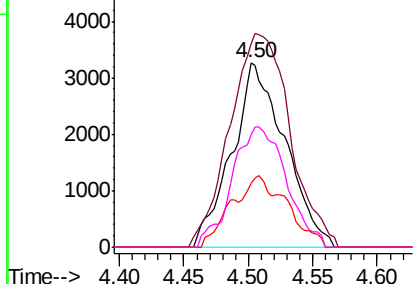
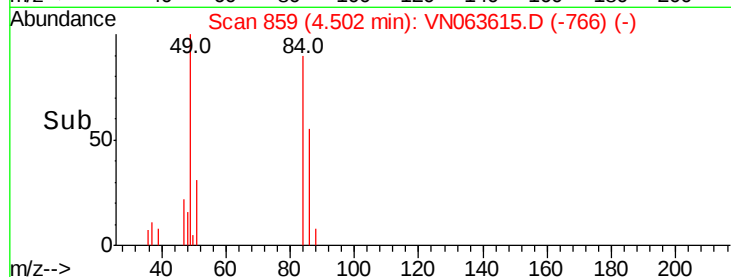
#20
Methvlene Chloride
Concen: 3.325 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063615.D
Acq: 24 Sep 2020 2:53

Instrument :
MSVOA_N
ClientSampleId :
PB131813ZHE#14

Tot Ion: 84 Resp: 9413
Ion Ratio Lower Upper
84 100
49 110.6 110.7 166.1#
51 34.6 32.9 49.3
86 60.8 51.1 76.7

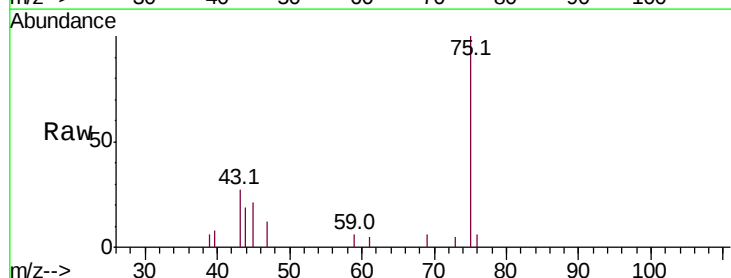


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

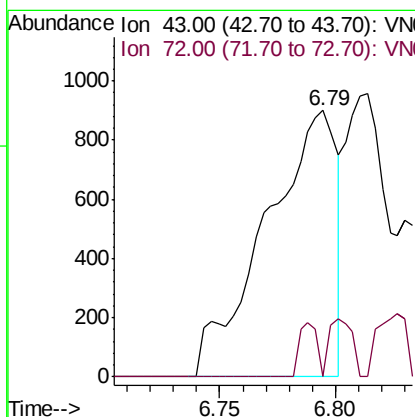
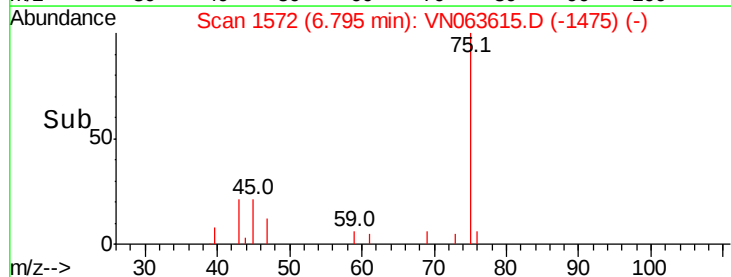


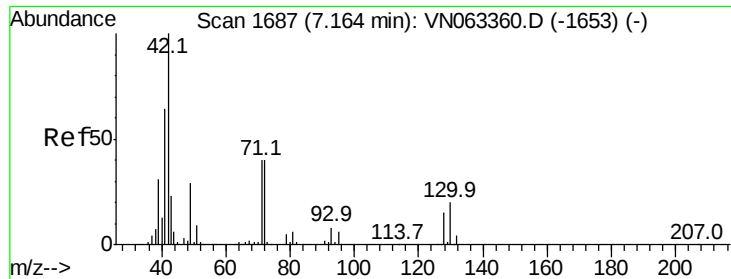
#25
2-Butanone
Concen: 1.109 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063615.D
Acq: 24 Sep 2020 2:53

Tgt Ion: 43 Resp: 1905
Ion Ratio Lower Upper
43 100
72 0.0 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: 1.014 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#14

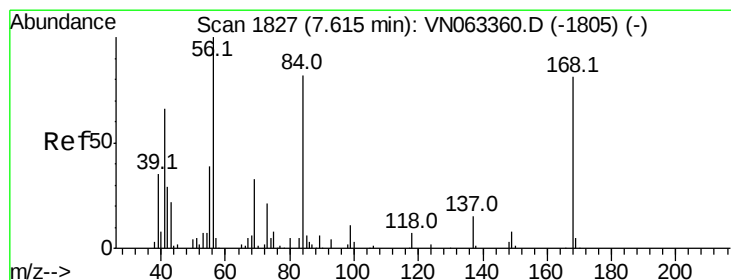
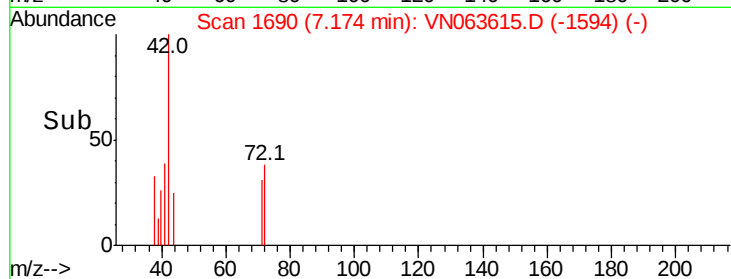
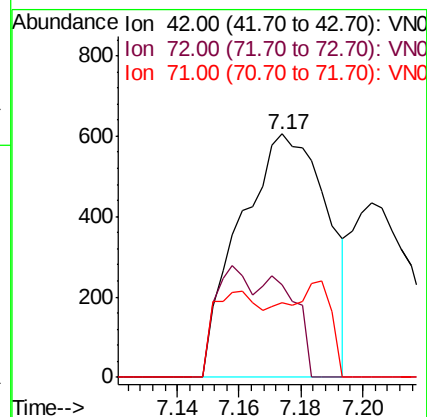
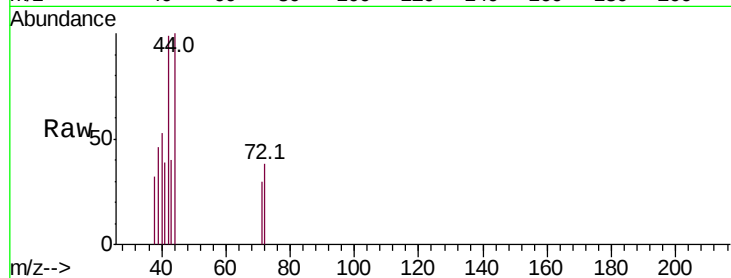
Tot Ion: 42 Resp: 1190

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 13.4 31.2 46.8#



#31

Cyclohexane

Concen: 1.199 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

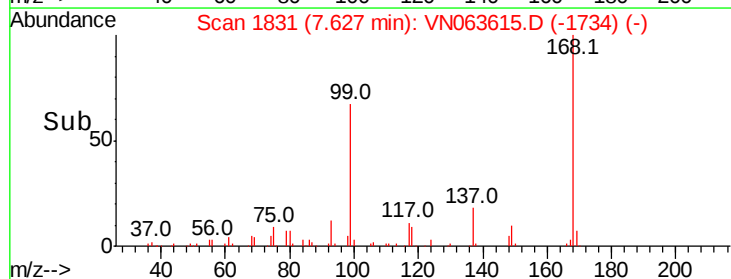
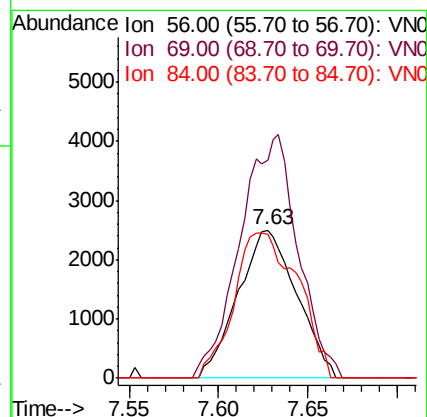
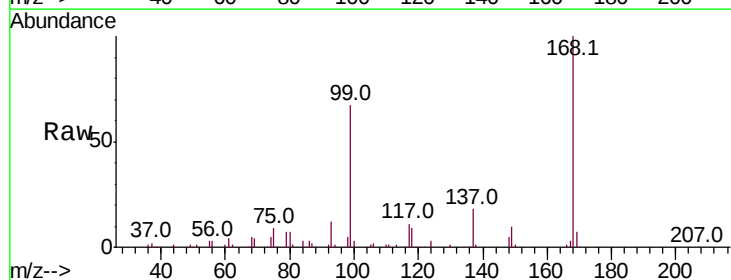
Tgt Ion: 56 Resp: 5757

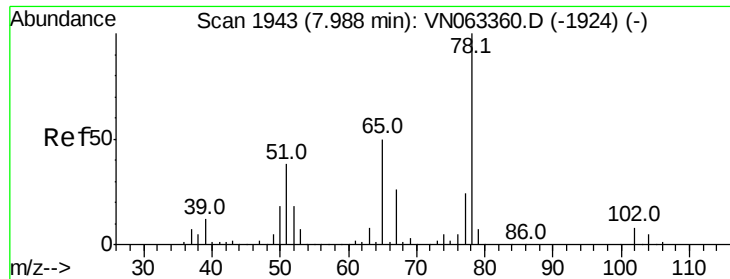
Ion Ratio Lower Upper

56 100

69 147.6 26.1 39.1#

84 97.0 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 51.246 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

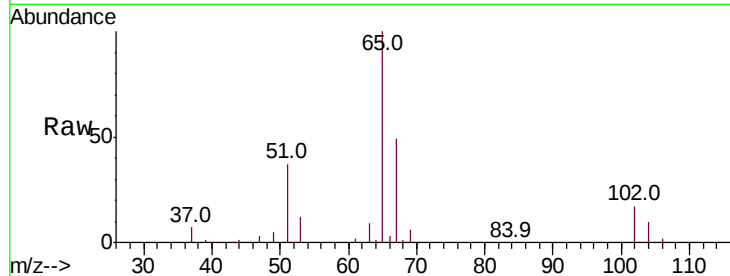
PB131813ZHE#14

Tot Ion: 65 Resp: 178166

Ion Ratio Lower Upper

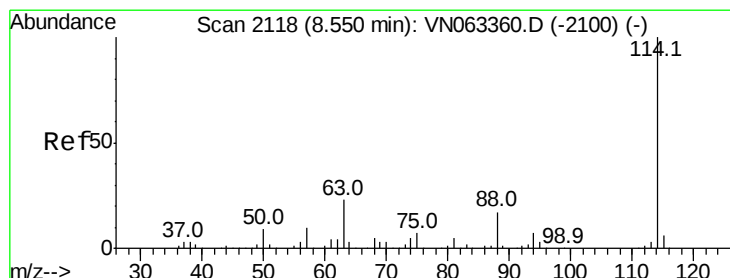
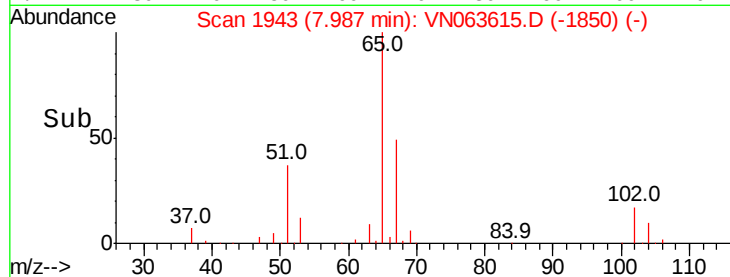
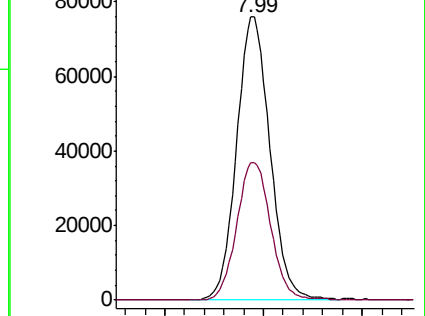
65 100

67 49.6 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

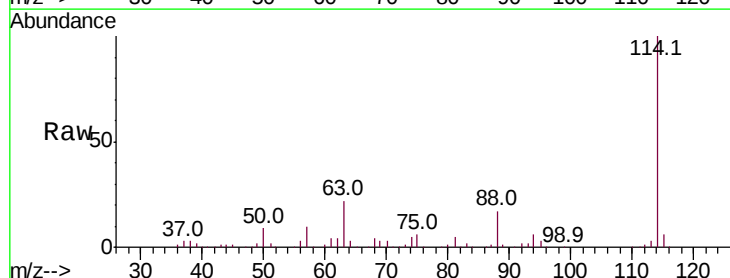
Tgt Ion: 114 Resp: 399466

Ion Ratio Lower Upper

114 100

63 21.9 0.0 46.4

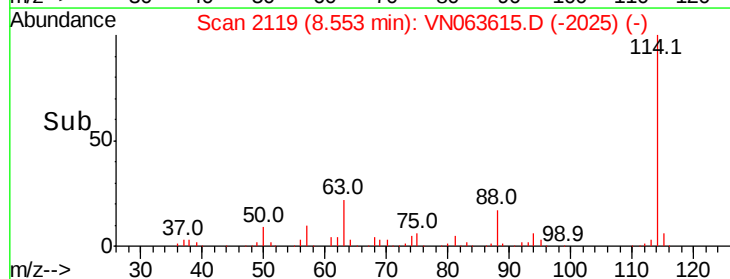
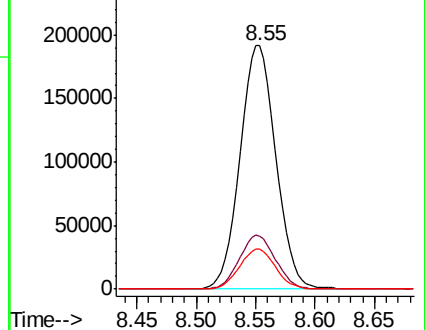
88 16.6 0.0 33.2

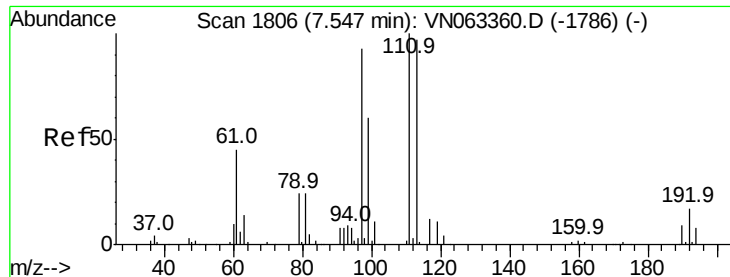


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)





#35

Dibromofluoromethane

Concen: 46.276 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

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PB131813ZHE#14

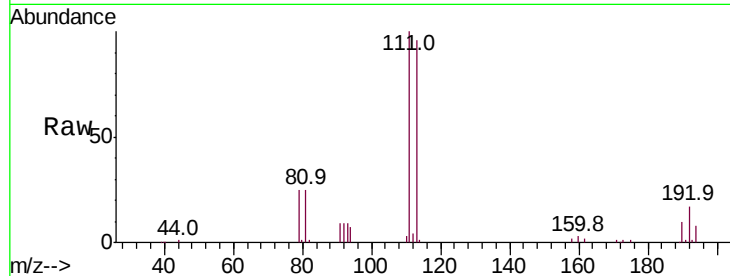
Tot Ion:113 Resp: 127974

Ion Ratio Lower Upper

113 100

111 102.4 82.9 124.3

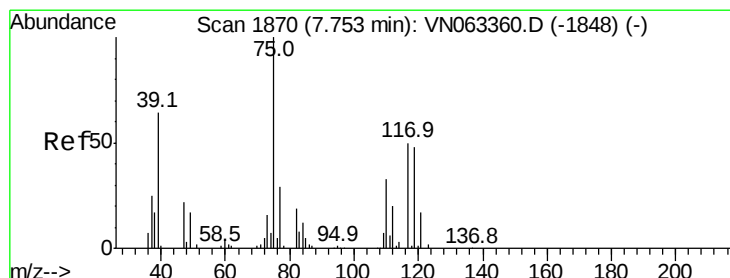
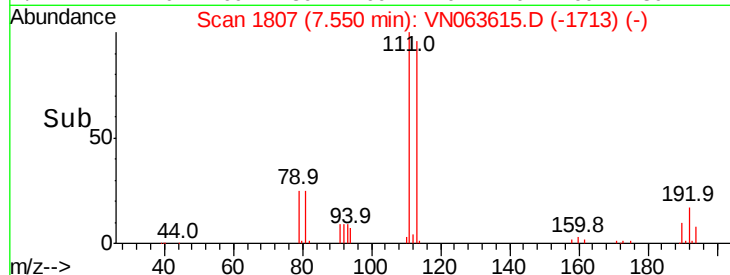
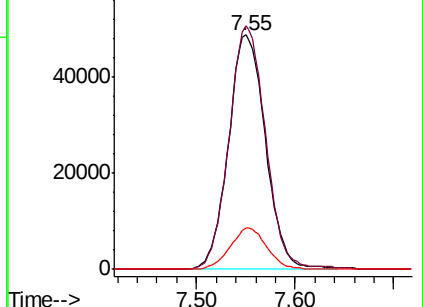
192 17.4 13.9 20.9



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: 4.528 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

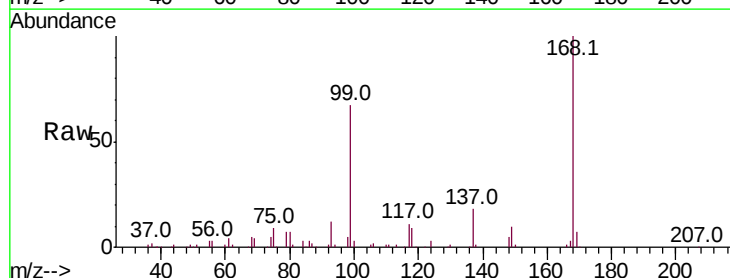
Tgt Ion: 75 Resp: 19272

Ion Ratio Lower Upper

75 100

110 9.2 16.5 49.5#

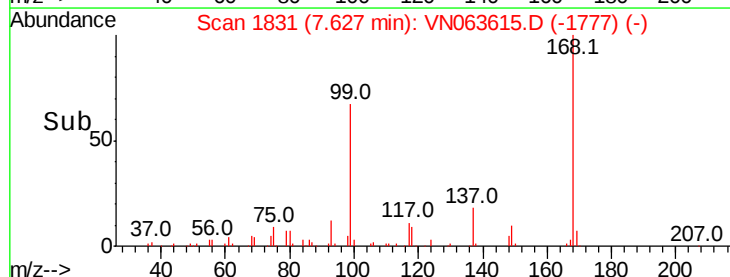
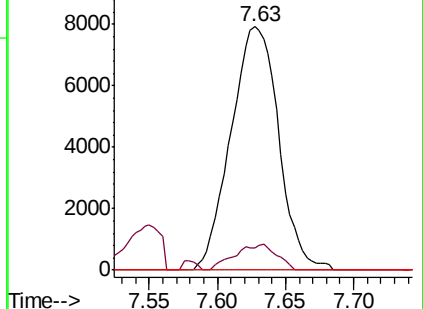
77 0.0 24.6 36.8#

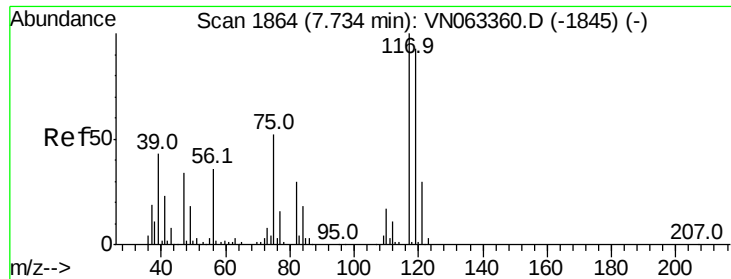


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.058 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#14

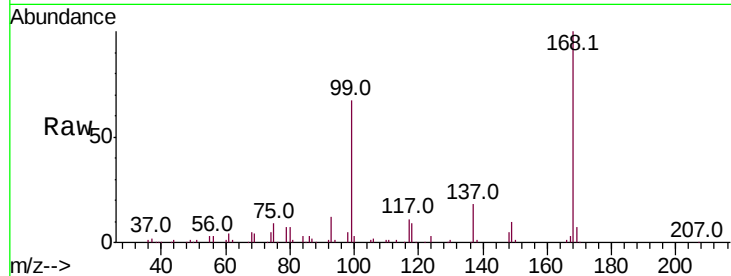
Tot Ion:117 Resp: 21973

Ion Ratio Lower Upper

117 100

119 3.5 74.5 111.7#

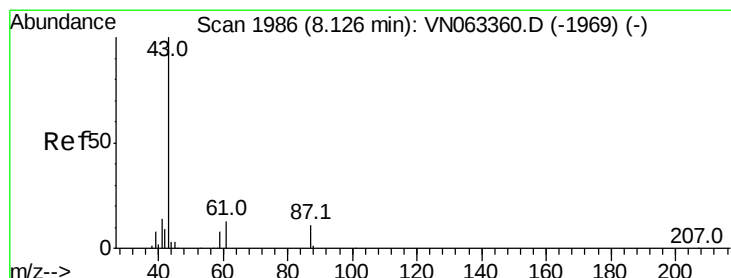
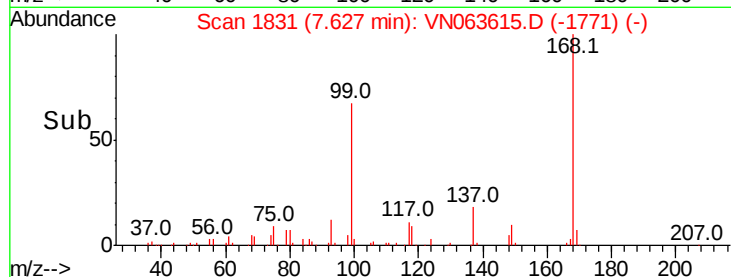
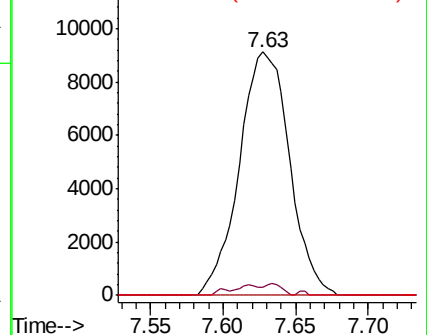
121 0.0 24.1 36.1#



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: 10.710 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

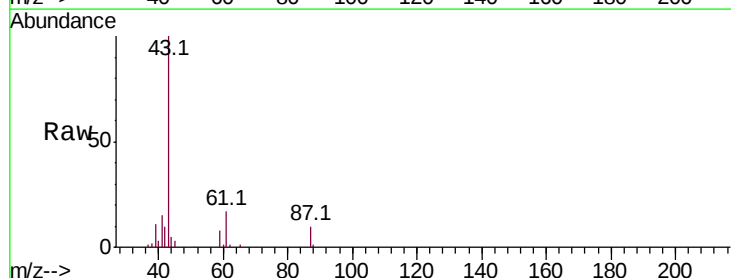
Tgt Ion: 43 Resp: 79990

Ion Ratio Lower Upper

43 100

61 17.0 14.2 21.2

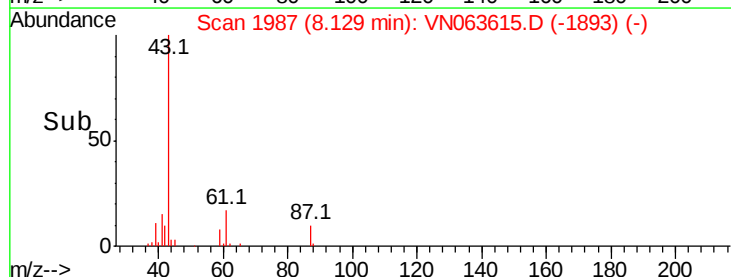
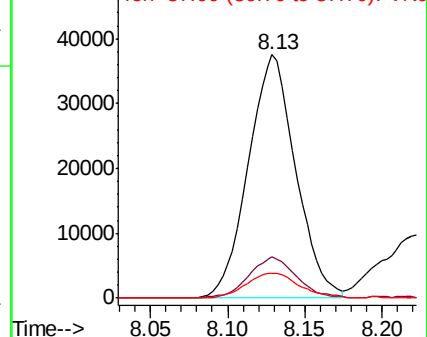
87 11.3 9.0 13.6

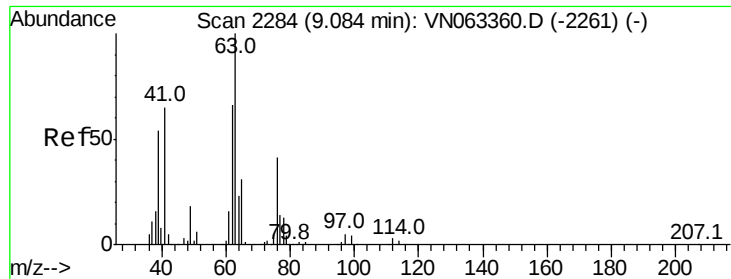


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.474 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

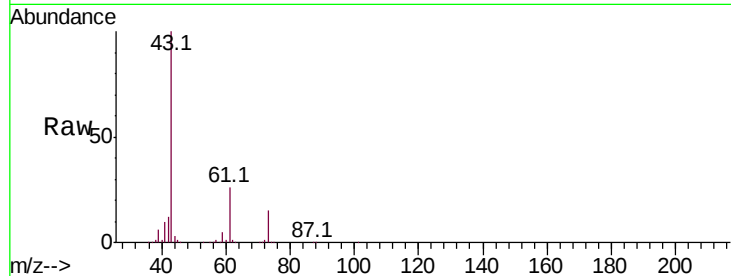
PB131813ZHE#14

Tot Ion: 63 Resp: 1568

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

800

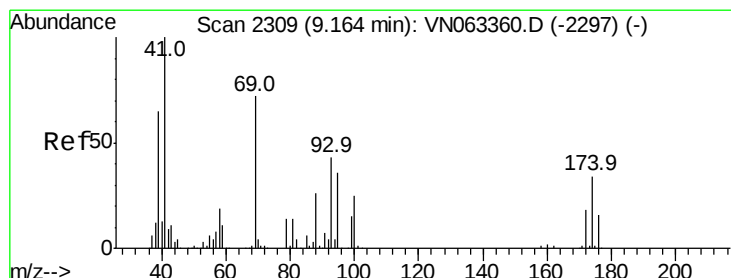
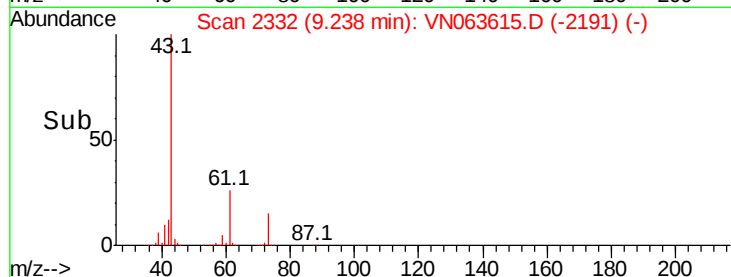
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.153 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

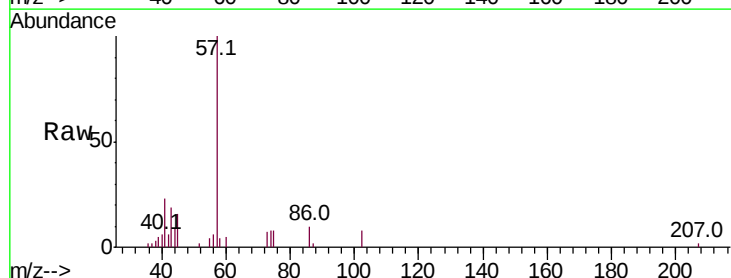
Tgt Ion: 41 Resp: 4232

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

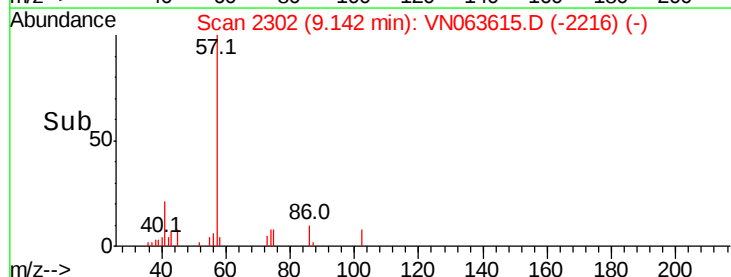
60000

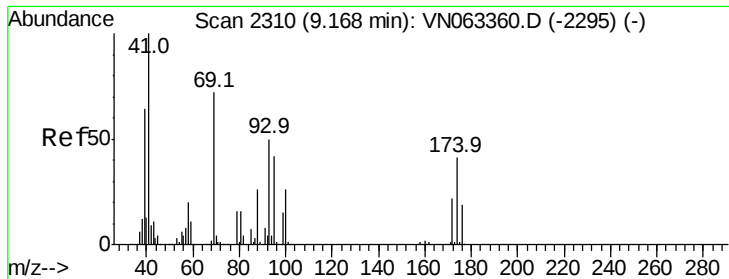
40000

20000

0

Time-->





#49

1,4-Dioxane

Concen: 1.804 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#14

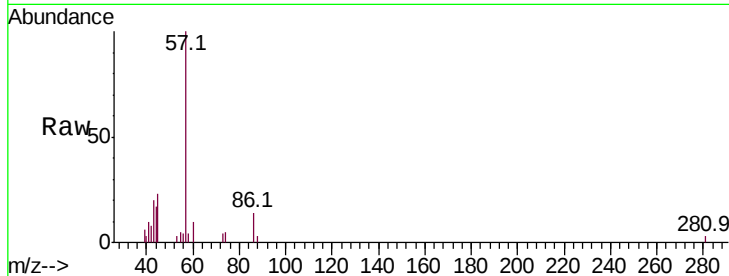
Tot Ion: 88 Resp: 95

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

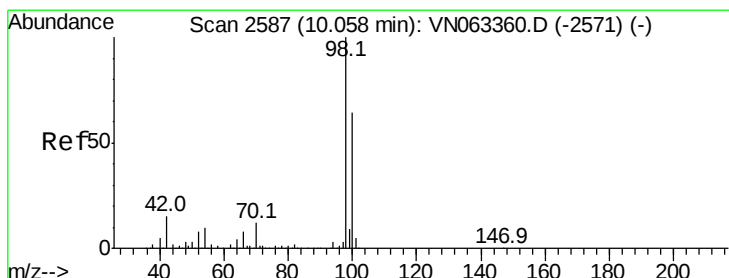
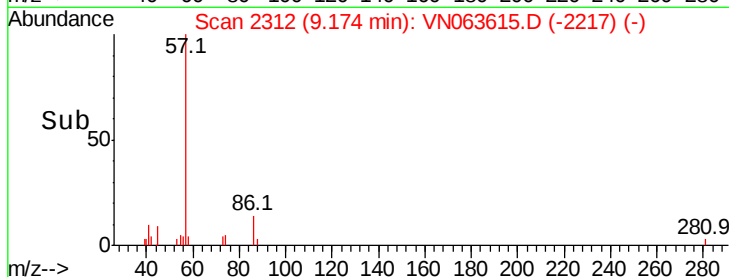
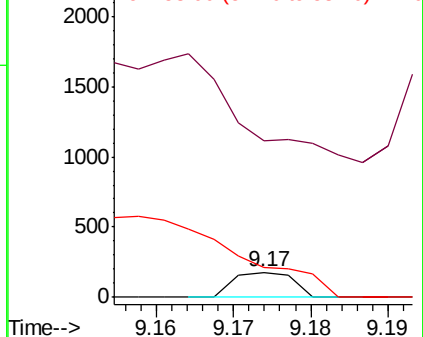
58 1341.1 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.566 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063615.D

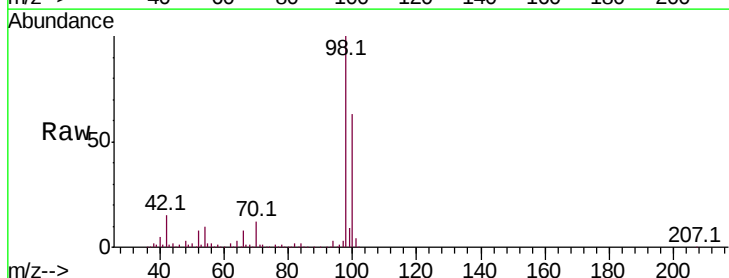
Acq: 24 Sep 2020 2:53

Tgt Ion: 98 Resp: 515412

Ion Ratio Lower Upper

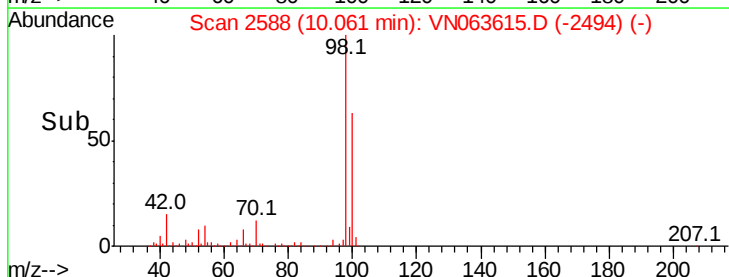
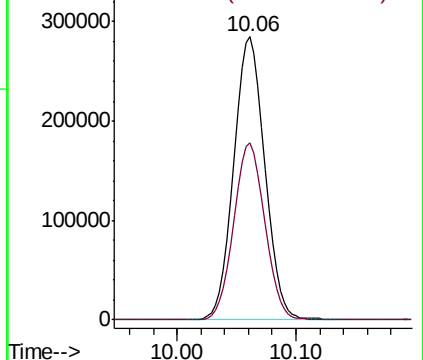
98 100

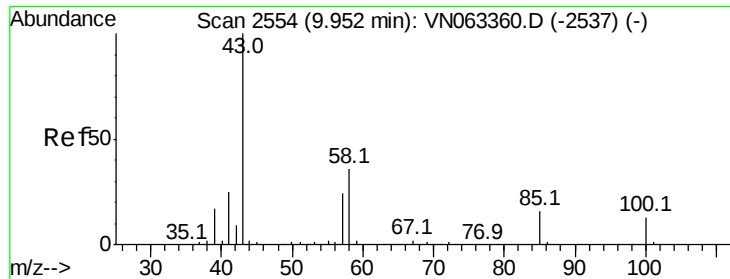
100 62.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.508 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

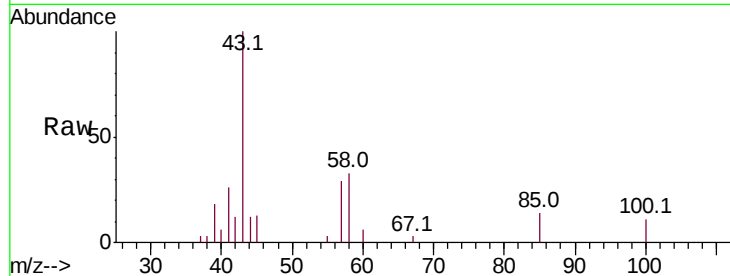
PB131813ZHE#14

Tot Ion: 43 Resp: 10487

Ion Ratio Lower Upper

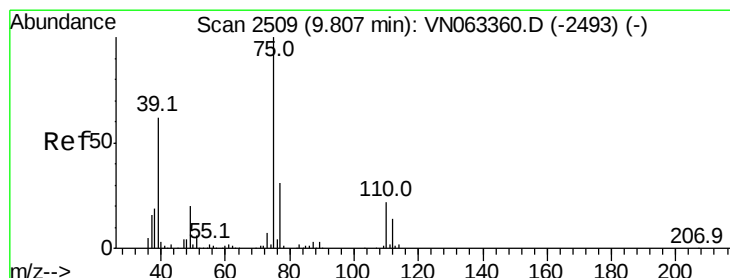
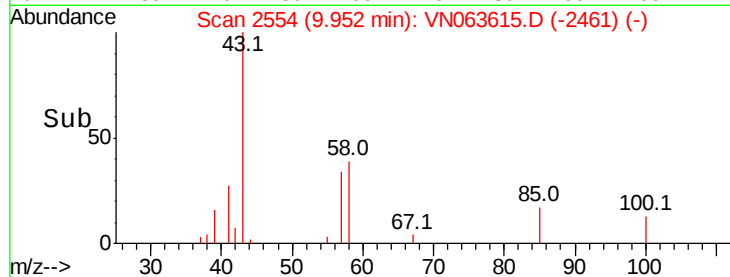
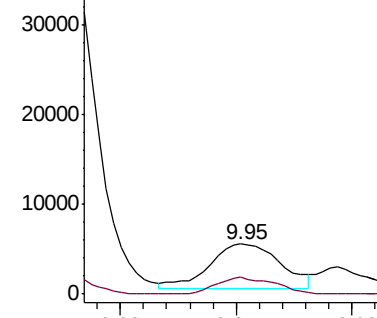
43 100

58 31.4 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.064 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

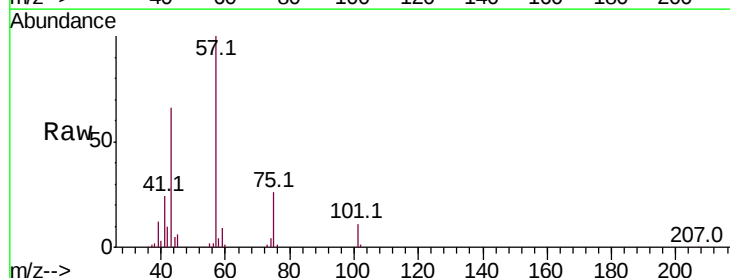
Tgt Ion: 75 Resp: 32259

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

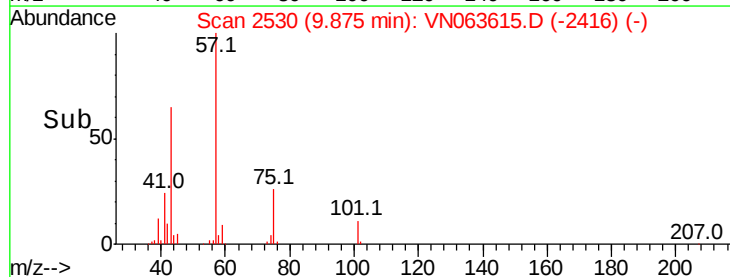
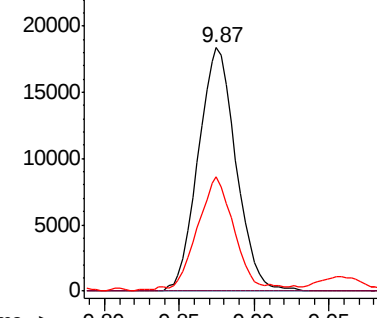
39 45.3 49.8 74.8#

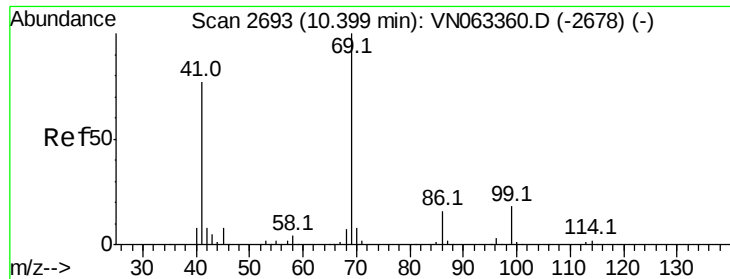


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.395 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#14

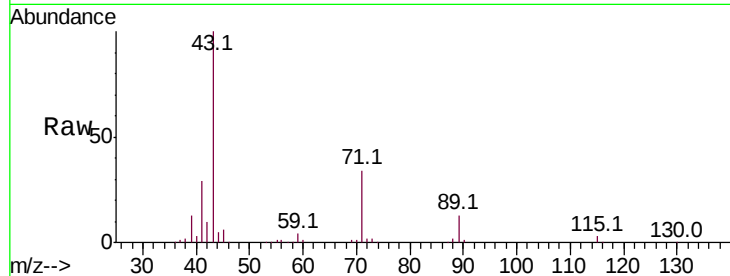
Tot Ion: 69 Resp: 1788

Ion Ratio Lower Upper

69 100

41 5359.7 61.0 91.6#

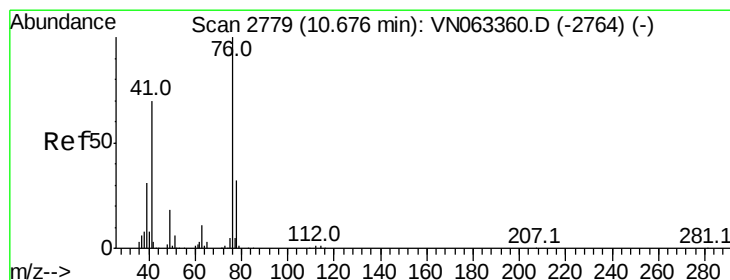
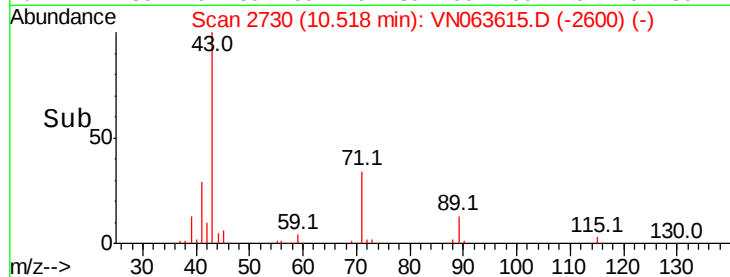
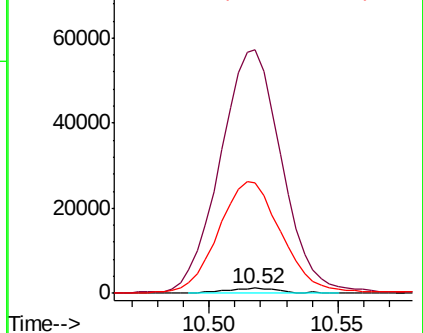
39 2523.8 39.2 58.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.988 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063615.D

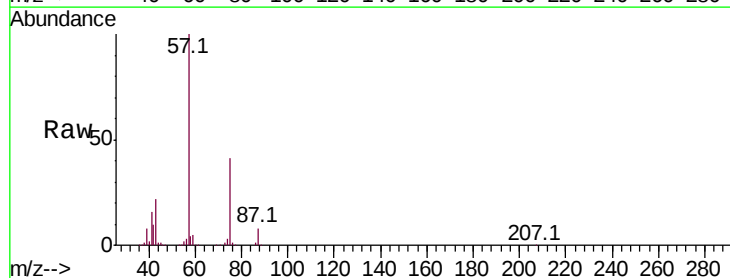
Acq: 24 Sep 2020 2:53

Tgt Ion: 76 Resp: 5169

Ion Ratio Lower Upper

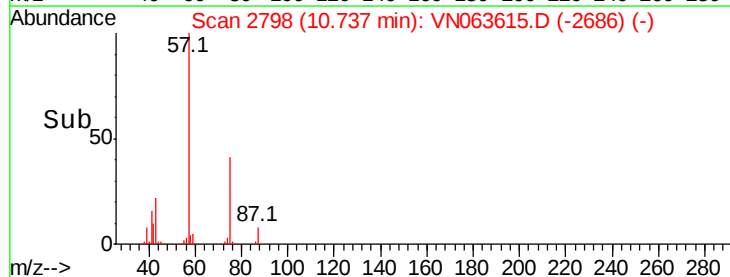
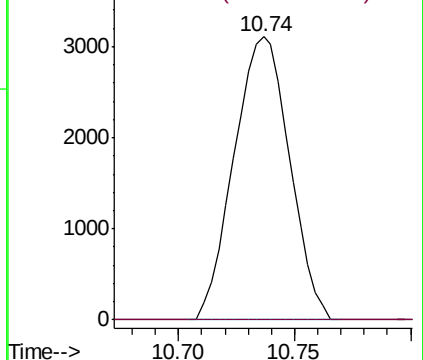
76 100

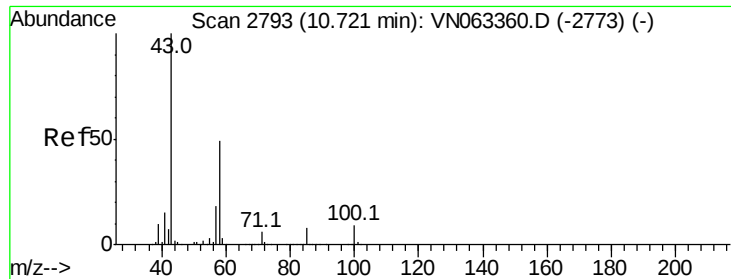
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

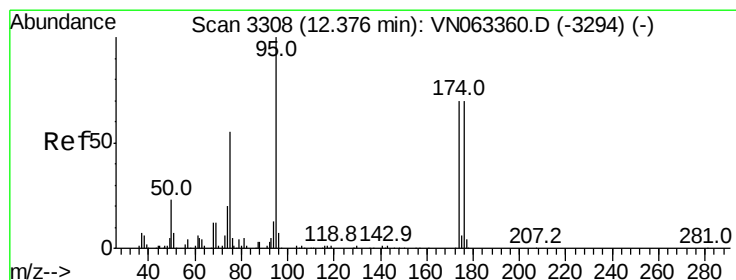
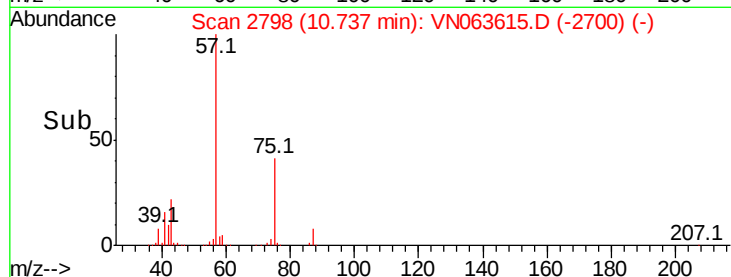
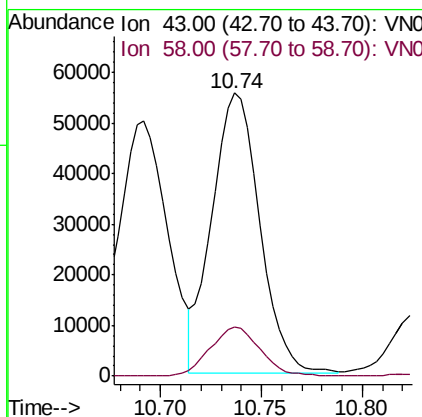
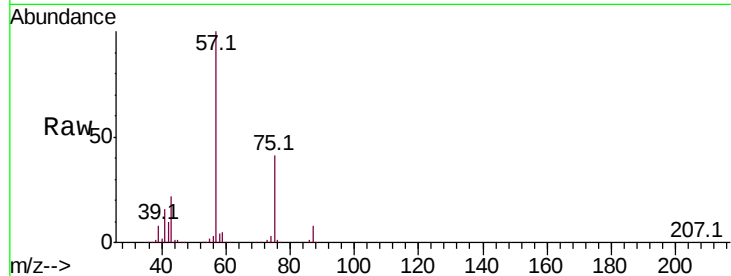




#59
2-Hexanone
Concen: 29.954 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063615.D
Acq: 24 Sep 2020 2:53

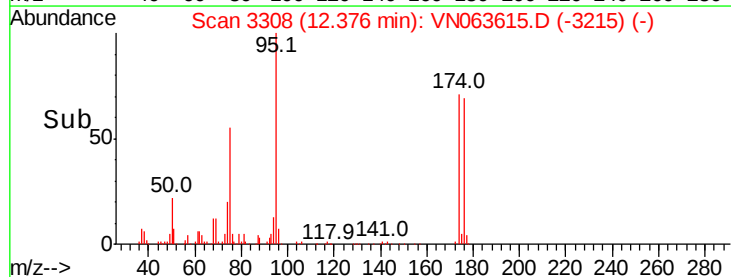
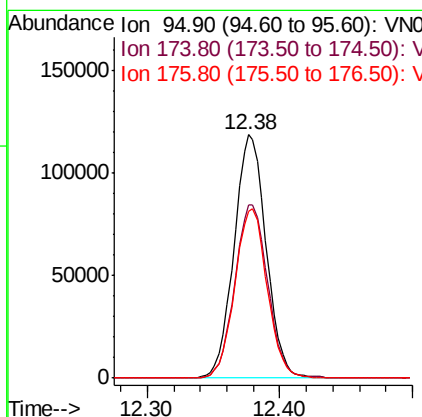
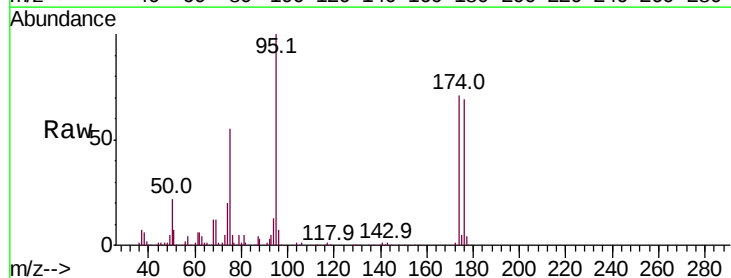
Instrument :
MSVOA_N
ClientSampleId :
PB131813ZHE#14

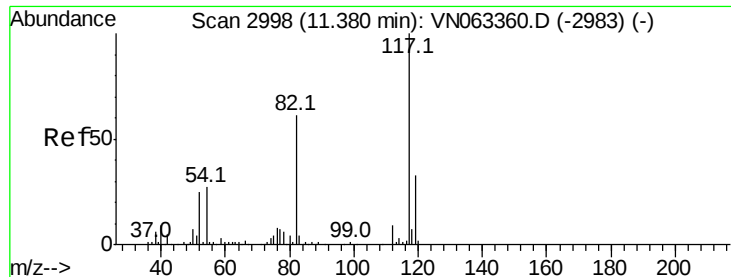
Tot Ion: 43 Resp: 90736
Ion Ratio Lower Upper
43 100
58 18.5 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 52.437 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063615.D
Acq: 24 Sep 2020 2:53

Tgt Ion: 95 Resp: 199883
Ion Ratio Lower Upper
95 100
174 72.9 0.0 140.8
176 70.1 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: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#14

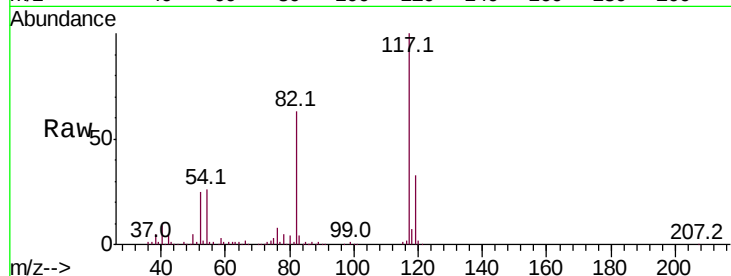
Tot Ion:117 Resp: 405942

Ion Ratio Lower Upper

117 100

82 62.8 49.2 73.8

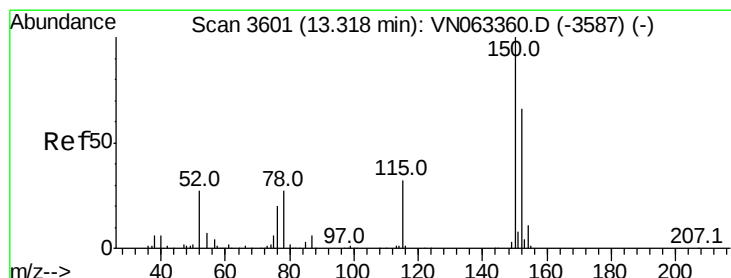
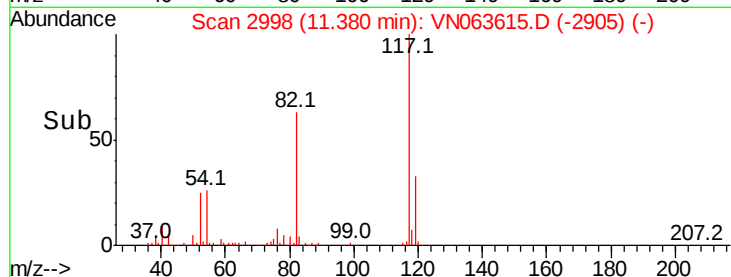
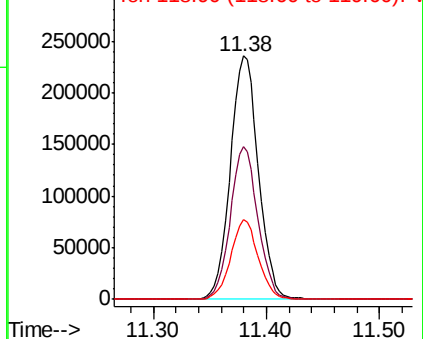
119 32.6 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

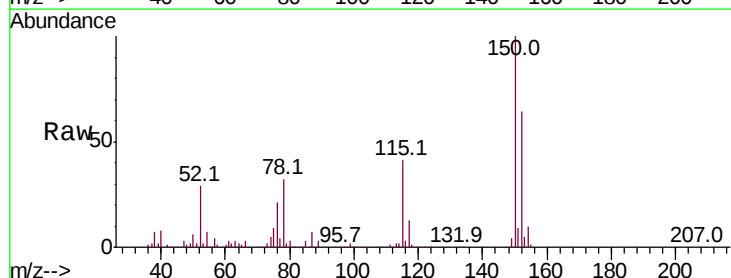
Tgt Ion:152 Resp: 169520

Ion Ratio Lower Upper

152 100

115 65.0 32.2 96.6

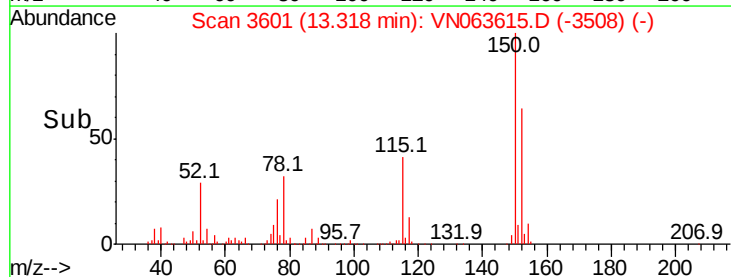
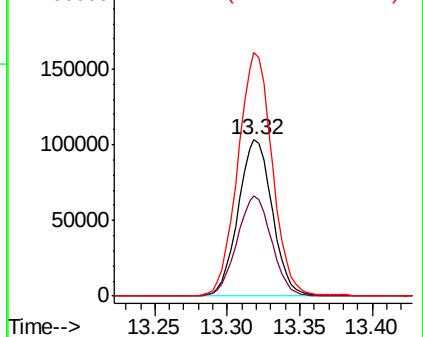
150 156.7 0.0 343.4

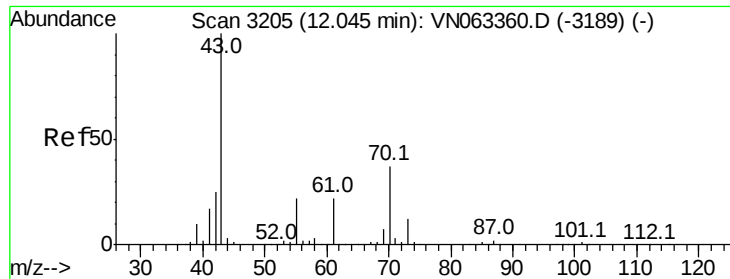


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.731 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#14

Tot Ion: 43 Resp: 4700

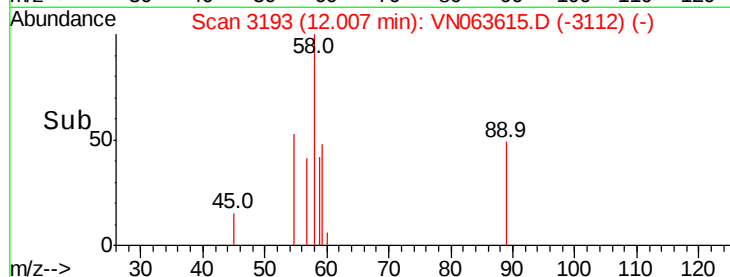
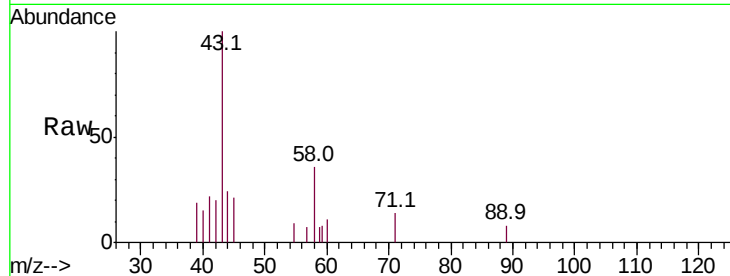
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 6.2 17.7 26.5#

61 0.0 17.4 26.2#

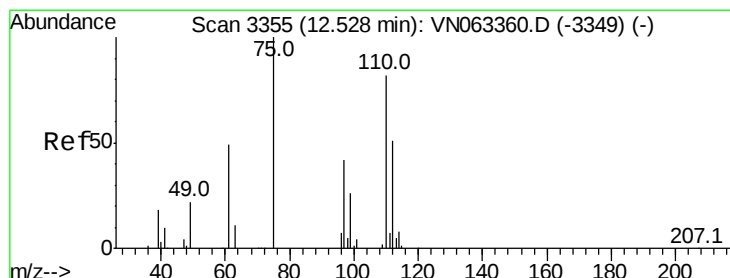
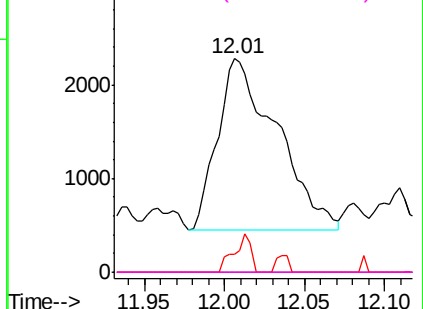


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.824 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063615.D

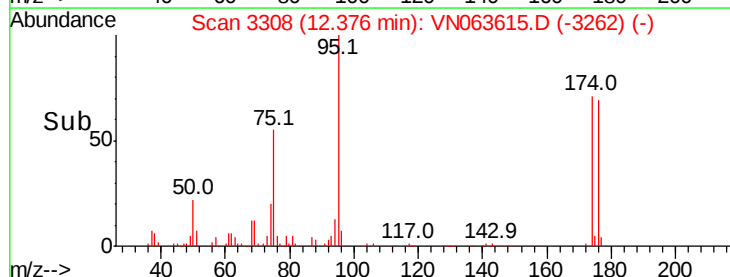
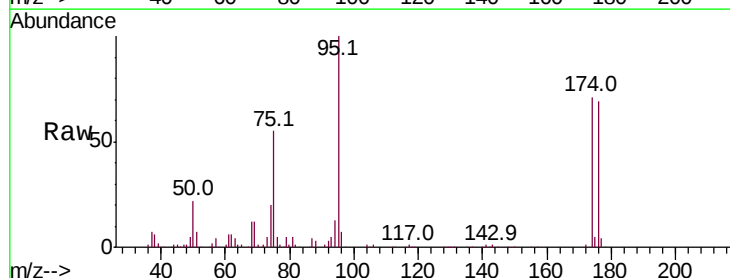
Acq: 24 Sep 2020 2:53

Tgt Ion: 75 Resp: 112550

Ion Ratio Lower Upper

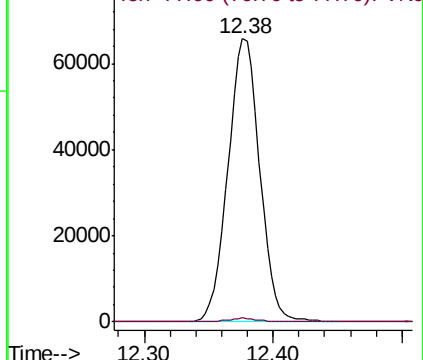
75 100

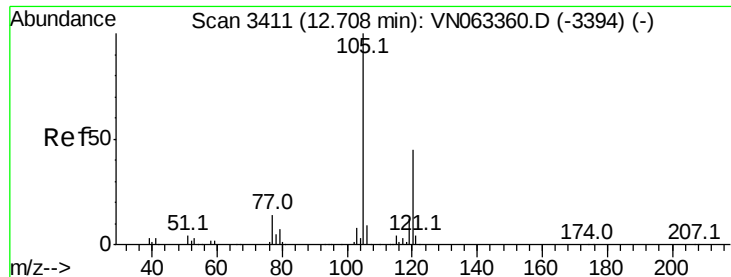
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.370 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

Instrument :

MSVOA_N

ClientSampleId :

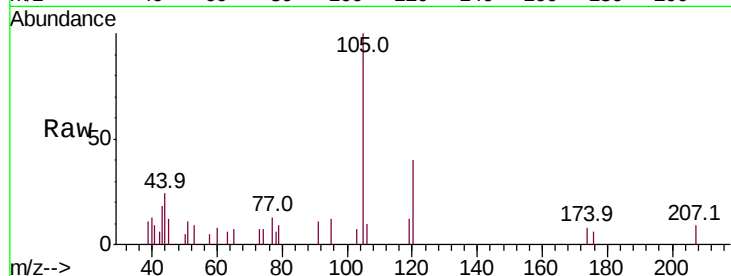
PB131813ZHE#14

Tot Ion:105 Resp: 4188

Ion Ratio Lower Upper

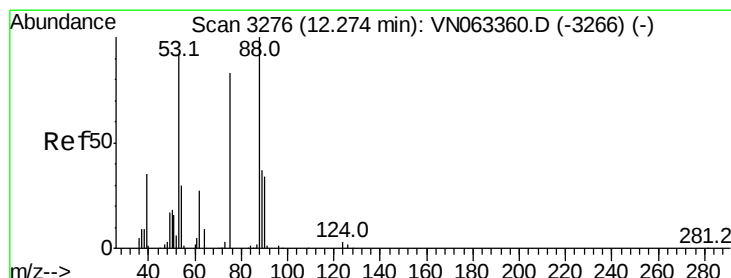
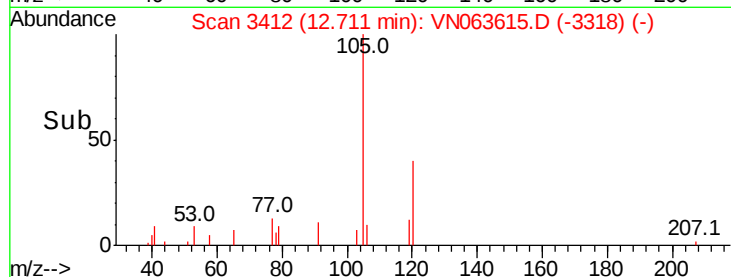
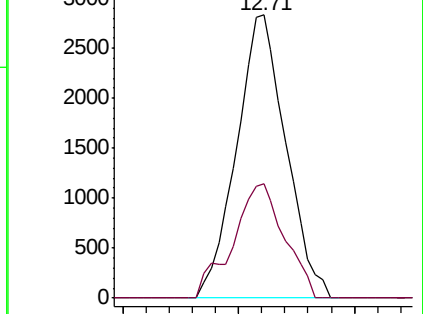
105 100

120 42.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 73.541 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063615.D

Acq: 24 Sep 2020 2:53

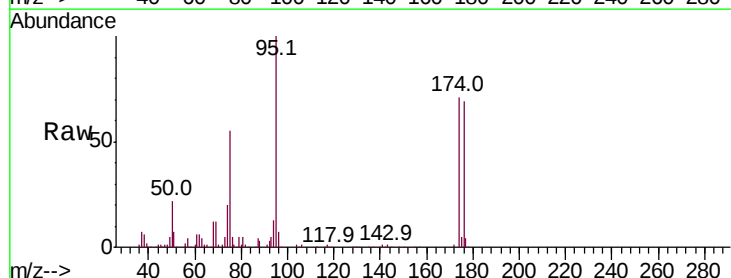
Tgt Ion: 75 Resp: 112550

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 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

