

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063370.D
 Acq On : 16 Sep 2020 17:30
 Operator : JC/MD
 Sample : PB131646ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#03

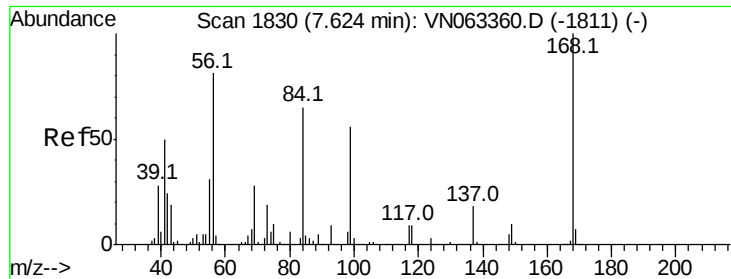
Quant Time: Sep 17 04:06:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	251228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	463317	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	459370	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	191754	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	205006	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
35) Dibromofluoromethane	7.55	113	150001	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
50) Toluene-d8	10.06	98	600375	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
62) 4-Bromofluorobenzene	12.38	95	236510	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	953	0.253	ug/l	95
16) Acetone	3.78	43	11507	8.372	ug/l	98
18) Methyl Acetate	4.29	43	5543	1.589	ug/l #	89
20) Methylene Chloride	4.51	84	9564	2.746	ug/l	96
25) 2-Butanone	6.80	43	2159	1.021	ug/l #	59
29) Tetrahydrofuran	7.17	42	866	0.600	ug/l #	87
31) Cyclohexane	7.62	56	7155	1.211	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	24403	4.944	ug/l #	51
38) Carbon Tetrachloride	7.62	117	27421	5.442	ug/l #	17
43) Isopropyl Acetate	8.13	43	105623	12.193	ug/l	98
45) 1,2-Dichloropropane	9.23	63	995	0.259	ug/l #	43
48) Methyl methacrylate	9.15	41	6082	1.429	ug/l #	15
49) 1,4-Dioxane	9.15	88	74	1.212	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	11203	2.310	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	42167	6.834	ug/l #	63
56) Ethyl methacrylate	10.52	69	1540	0.293	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6522	1.075	ug/l #	44
59) 2-Hexanone	10.74	43	110604	31.481	ug/l #	54
74) N-amyl acetate	12.00	43	5109	0.702	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	134610	28.362	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4485	0.350	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	134610	77.757	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: VN063370.D

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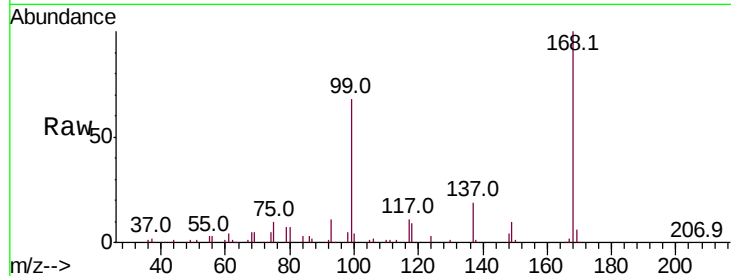
PB131646ZHE#03

Tot Ion:168 Resp: 251228

Ion Ratio Lower Upper

168 100

99 67.9 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

120000

100000

80000

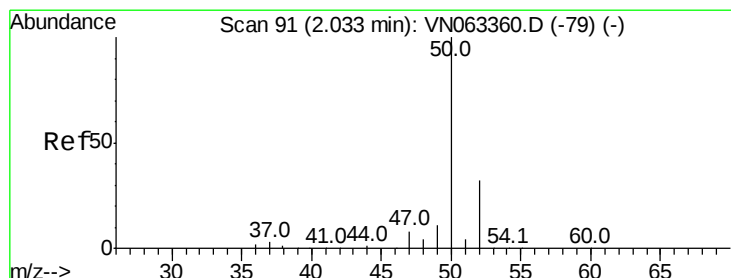
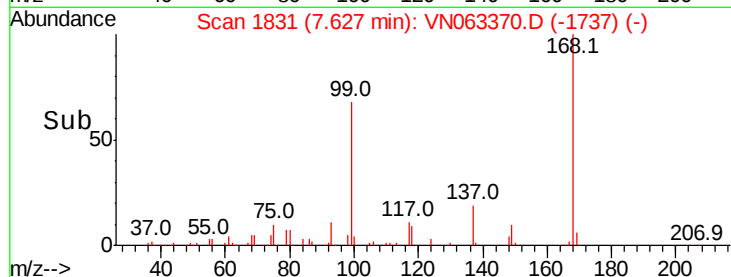
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.253 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063370.D

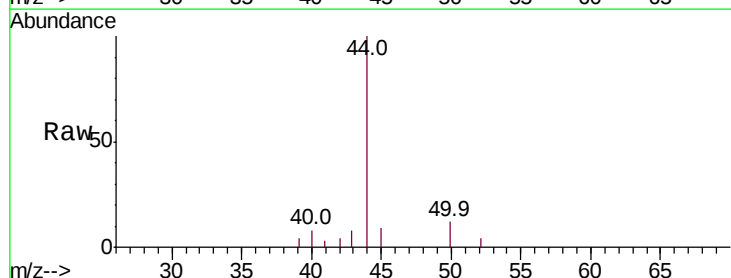
Acq: 16 Sep 2020 17:30

Tgt Ion: 50 Resp: 953

Ion Ratio Lower Upper

50 100

52 29.5 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

600

500

400

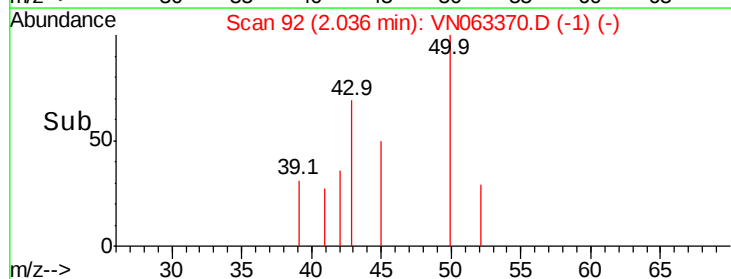
300

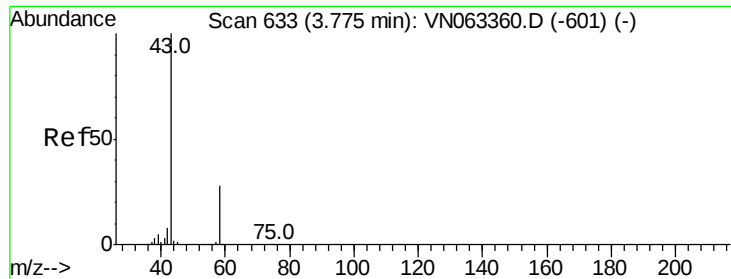
200

100

0

Time--> 2.00 2.02 2.04 2.06 2.08





#16

Acetone

Concen: 8.372 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

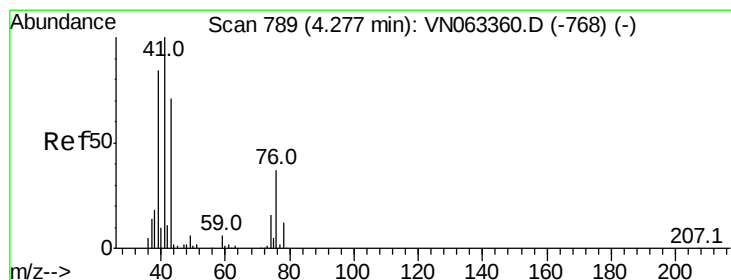
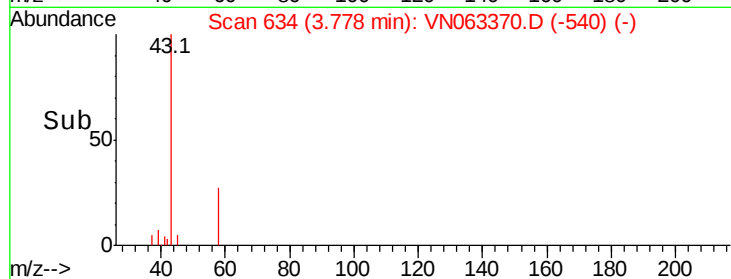
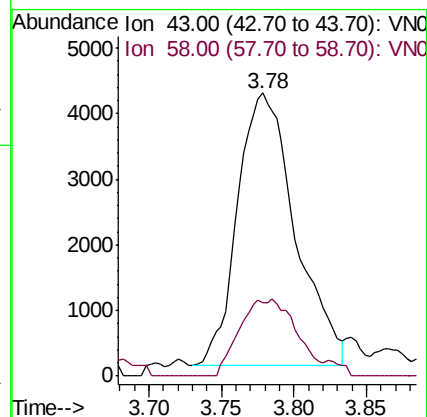
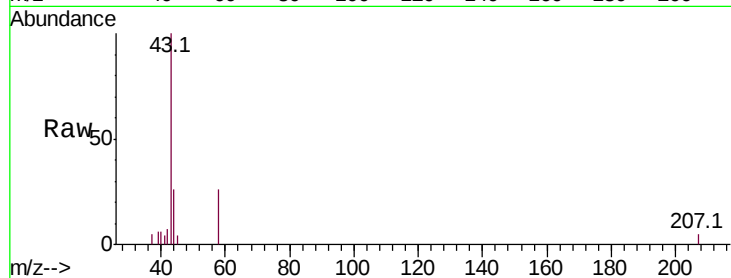
PB131646ZHE#03

Tot Ion: 43 Resp: 11507

Ion Ratio Lower Upper

43 100

58 26.8 22.3 33.5



#18

Methyl Acetate

Concen: 1.589 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063370.D

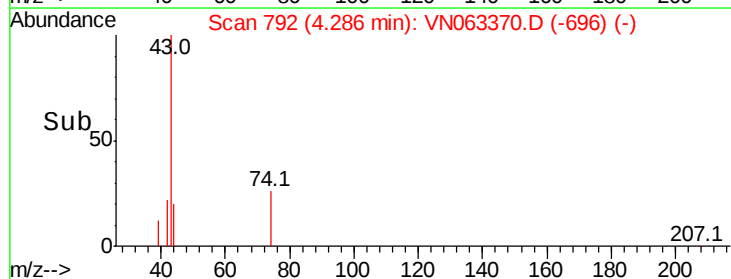
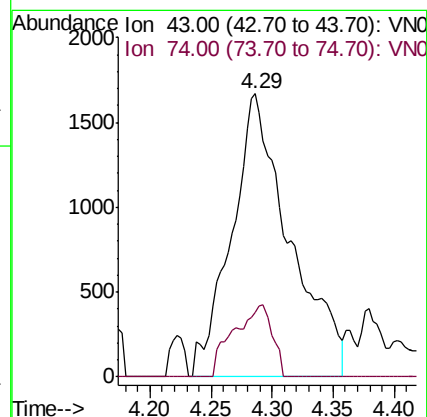
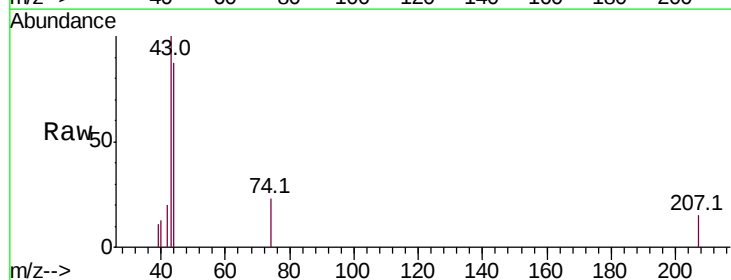
Acq: 16 Sep 2020 17:30

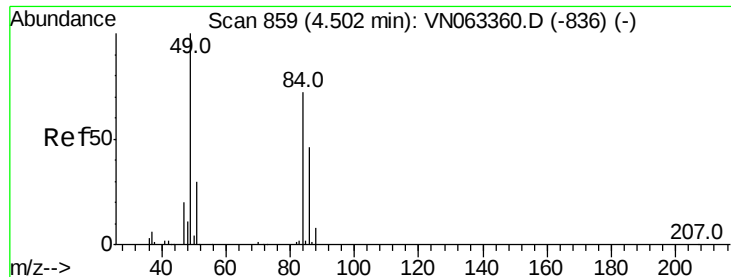
Tgt Ion: 43 Resp: 5543

Ion Ratio Lower Upper

43 100

74 16.7 17.4 26.2#

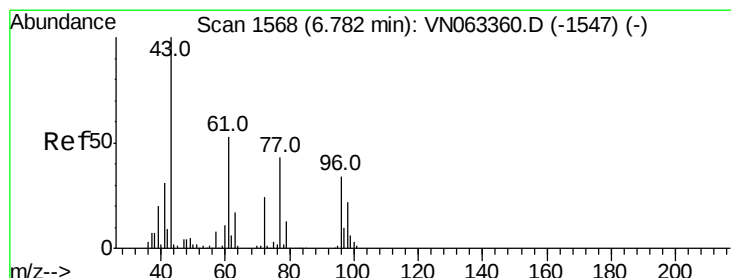
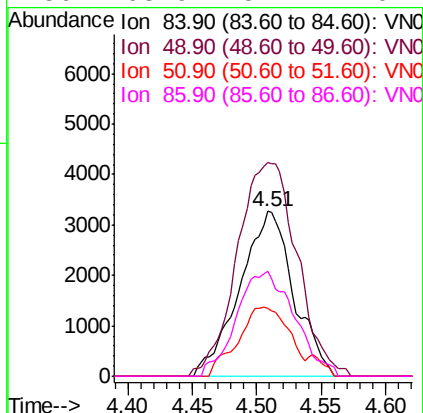
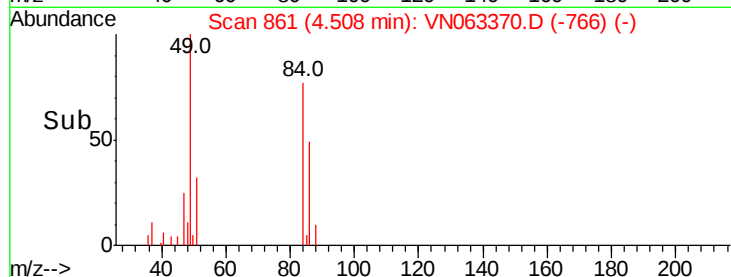
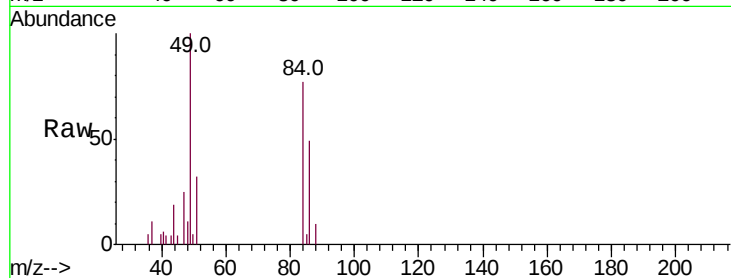




#20
Methylene Chloride
Concen: 2.746 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063370.D
Acq: 16 Sep 2020 17:30

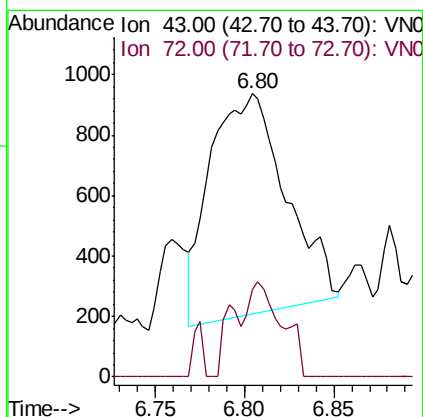
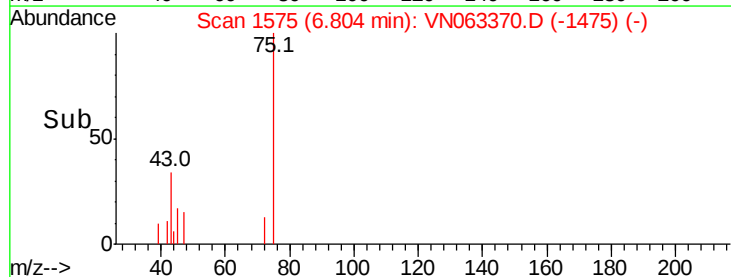
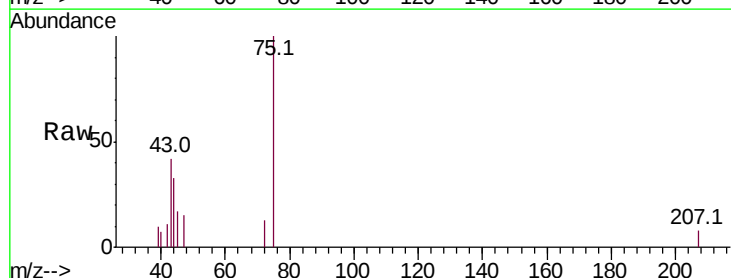
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#03

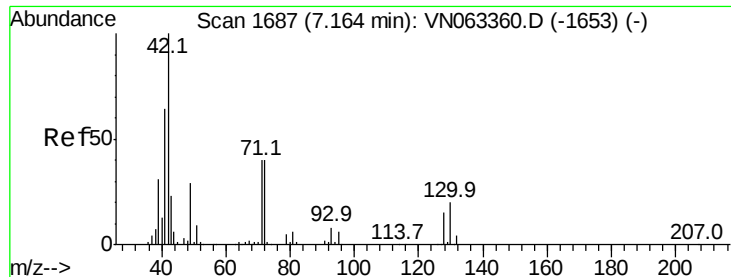
Tot Ion: 84 Resp: 9564
Ion Ratio Lower Upper
84 100
49 129.6 110.7 166.1
51 40.9 32.9 49.3
86 63.9 51.1 76.7



#25
2-Butanone
Concen: 1.021 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN063370.D
Acq: 16 Sep 2020 17:30

Tgt Ion: 43 Resp: 2159
Ion Ratio Lower Upper
43 100
72 44.4 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.600 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#03

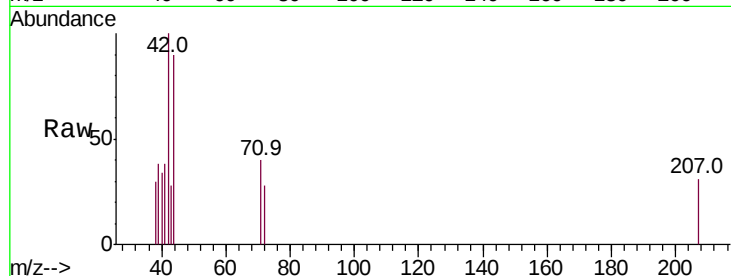
Tot Ion: 42 Resp: 866

Ion Ratio Lower Upper

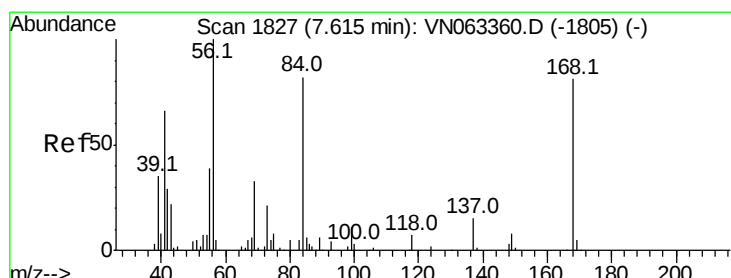
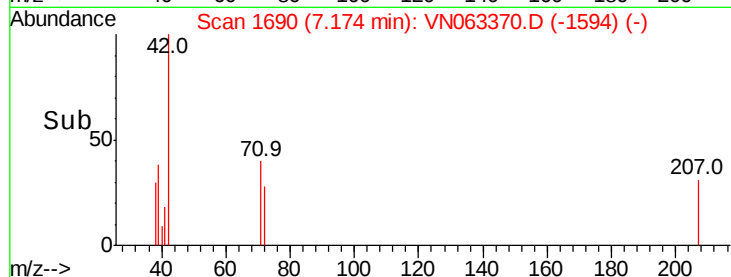
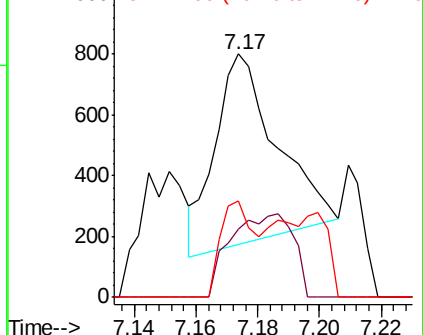
42 100

72 44.5 32.1 48.1

71 27.5 31.2 46.8#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.211 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

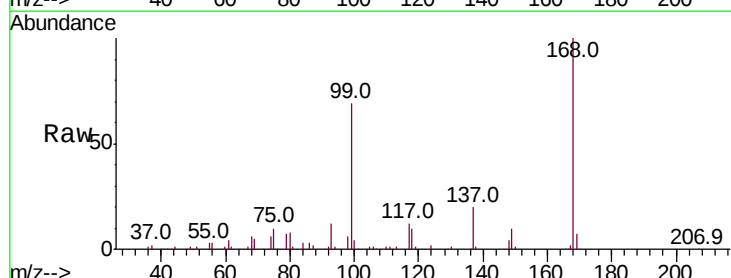
Tgt Ion: 56 Resp: 7155

Ion Ratio Lower Upper

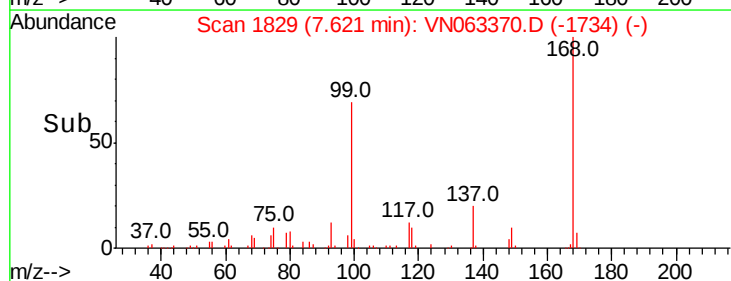
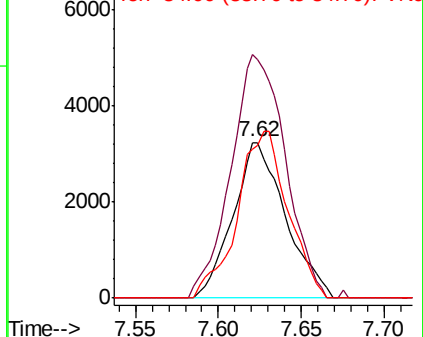
56 100

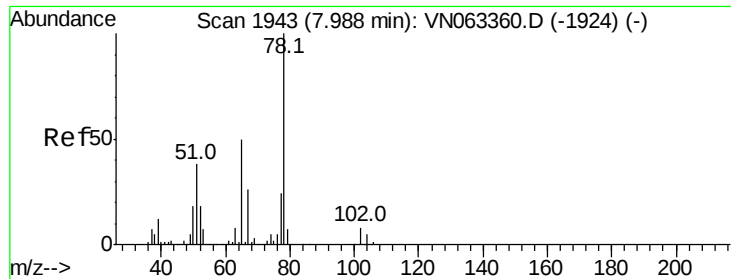
69 156.4 26.1 39.1#

84 95.3 65.4 98.2



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

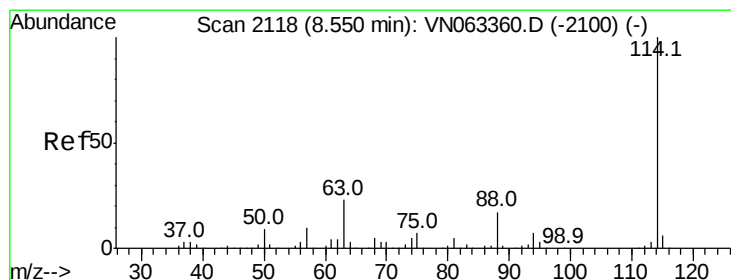
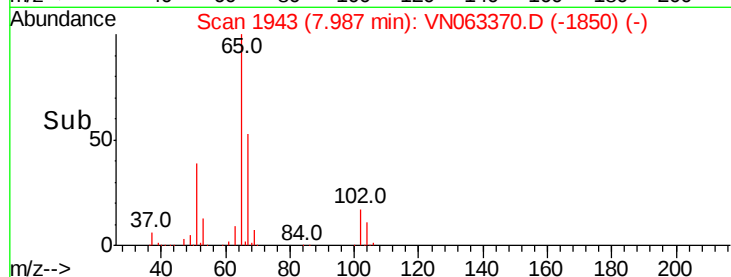
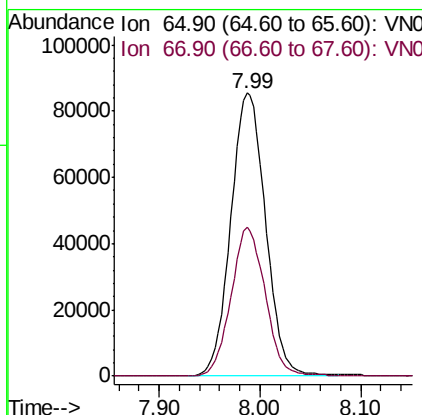
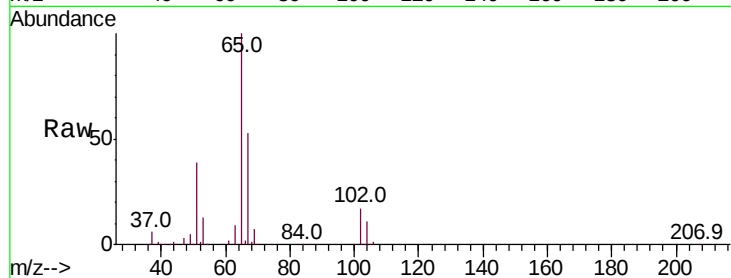




#33
 1,2-Dichloroethane-d4
 Concen: 47.937 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063370.D
 Acq: 16 Sep 2020 17:30

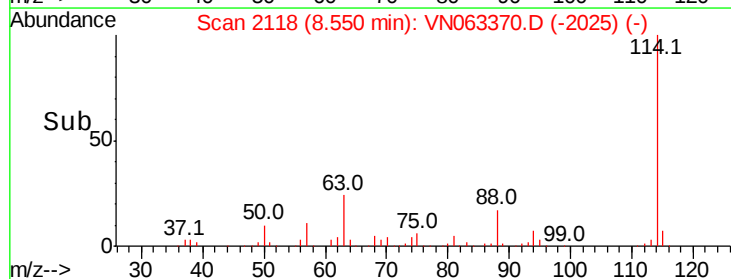
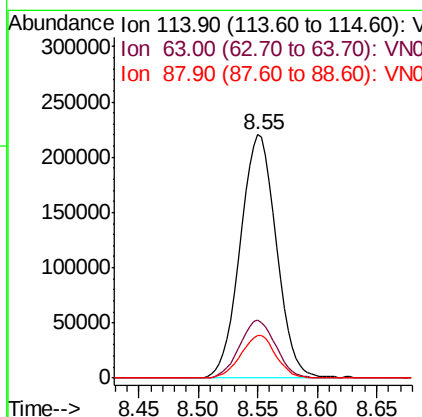
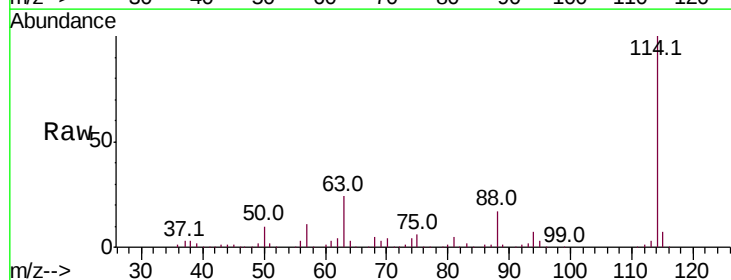
Instrument :
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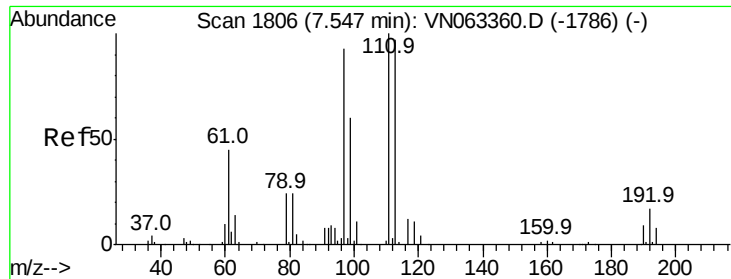
Tot Ion: 65 Resp: 205006
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063370.D
 Acq: 16 Sep 2020 17:30

Tgt Ion: 114 Resp: 463317
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 46.4
 88 17.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.766 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#03

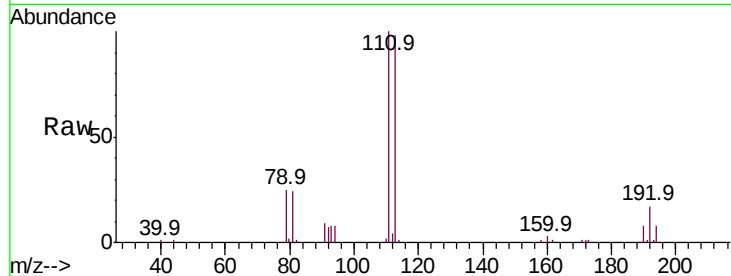
Tot Ion:113 Resp: 150001

Ion Ratio Lower Upper

113 100

111 103.6 82.9 124.3

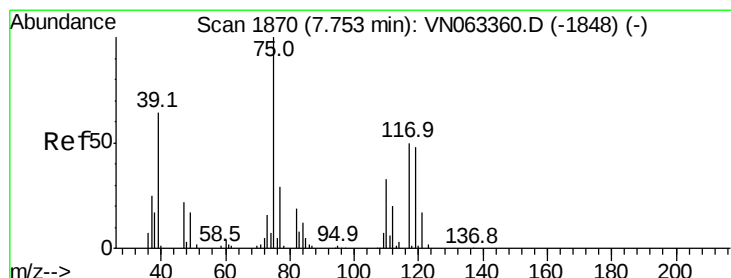
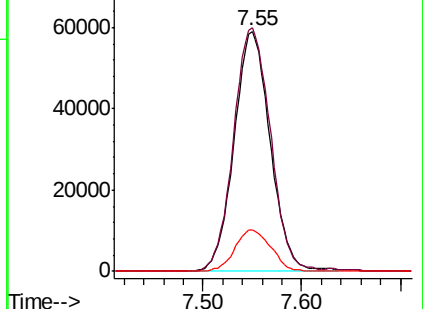
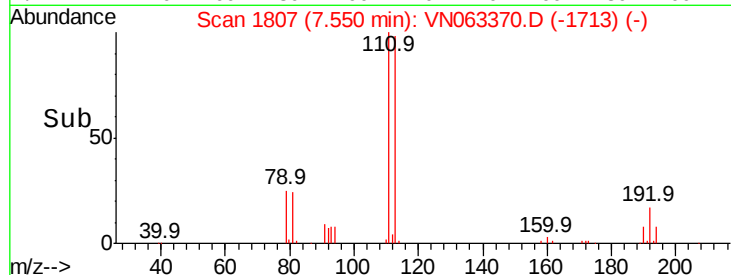
192 17.2 13.9 20.9



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: 4.944 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

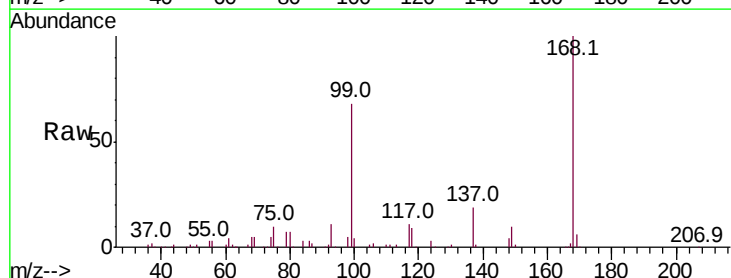
Tgt Ion: 75 Resp: 24403

Ion Ratio Lower Upper

75 100

110 8.5 16.5 49.5#

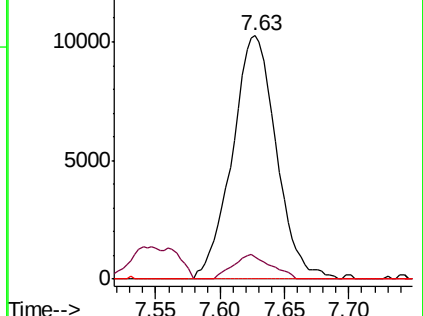
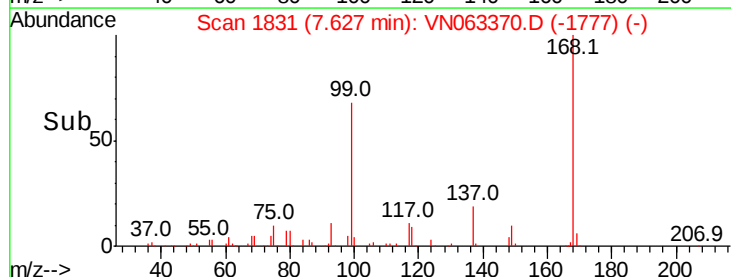
77 0.0 24.6 36.8#

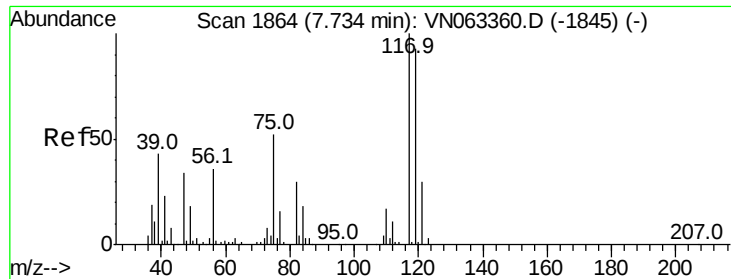


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.442 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#03

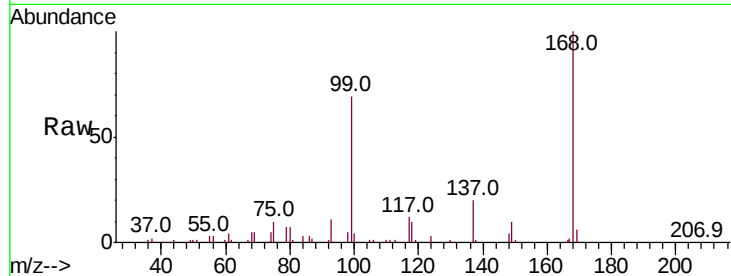
Tot Ion:117 Resp: 27421

Ion Ratio Lower Upper

117 100

119 4.4 74.5 111.7#

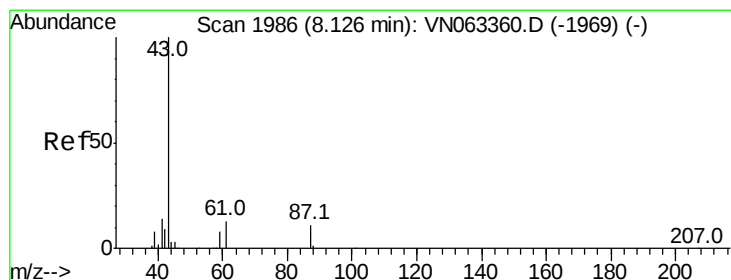
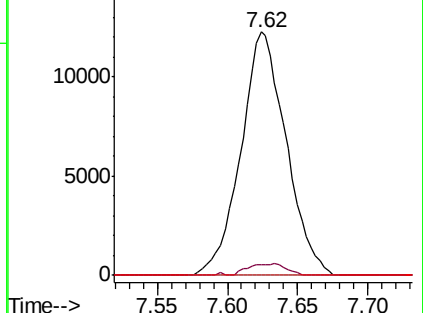
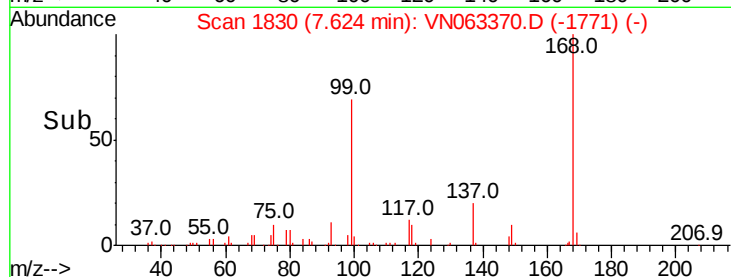
121 0.0 24.1 36.1#



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: 12.193 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

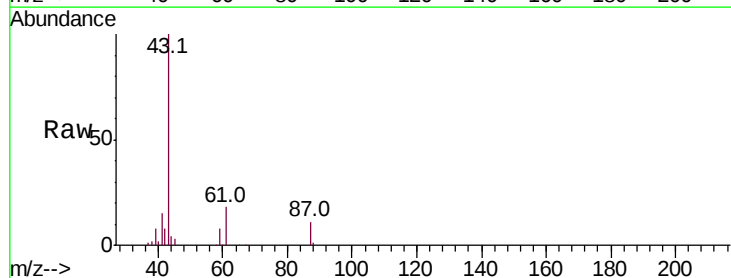
Tgt Ion: 43 Resp: 105623

Ion Ratio Lower Upper

43 100

61 18.9 14.2 21.2

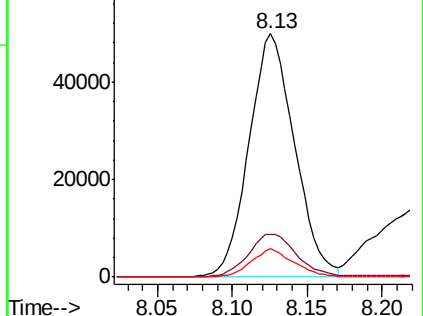
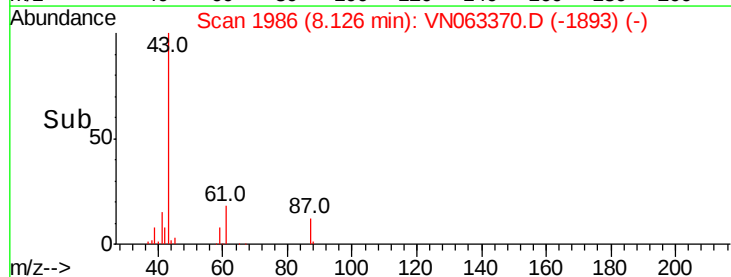
87 10.9 9.0 13.6

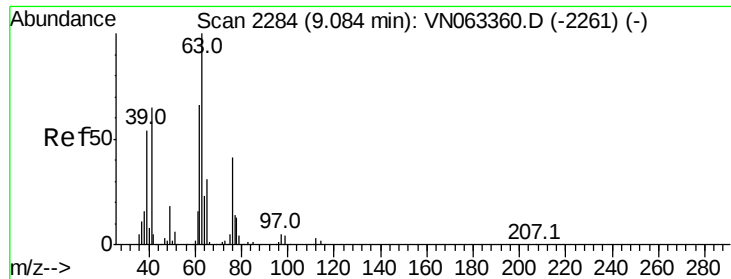


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.259 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

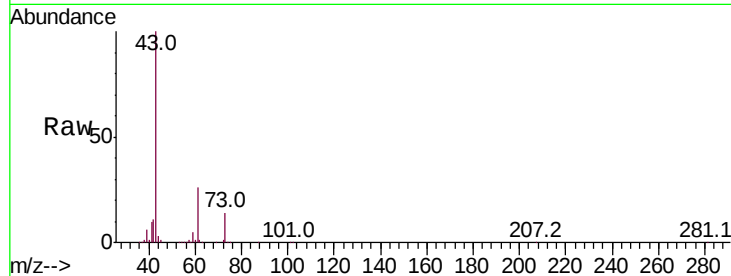
PB131646ZHE#03

Tot Ion: 63 Resp: 995

Ion Ratio Lower Upper

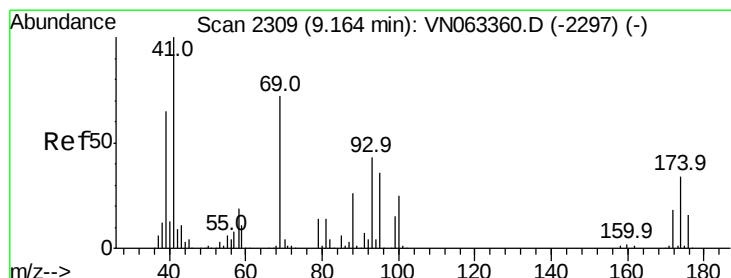
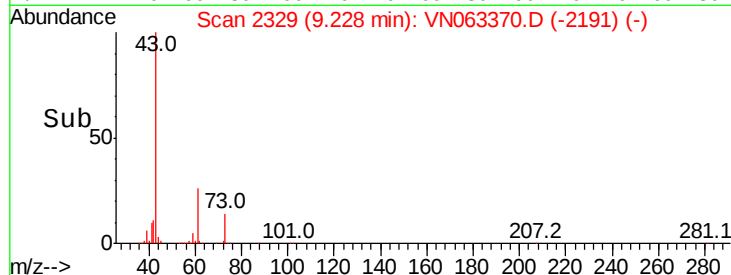
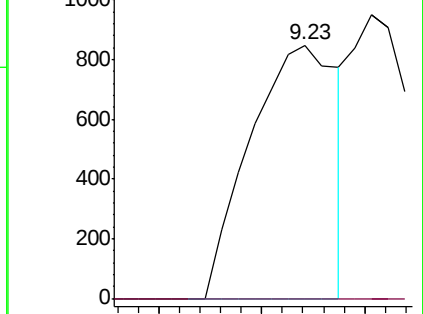
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.429 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

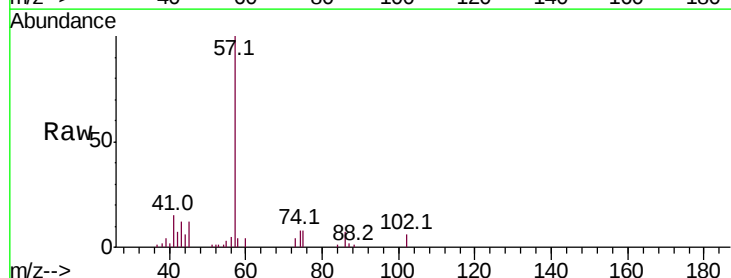
Tgt Ion: 41 Resp: 6082

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

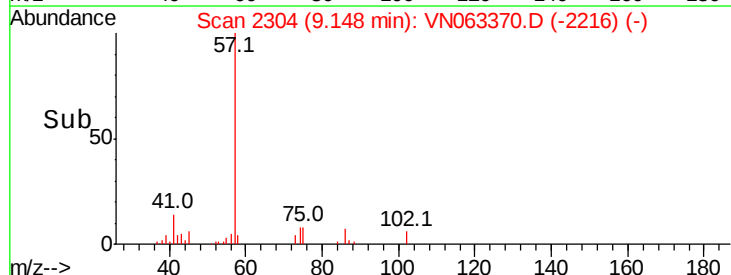
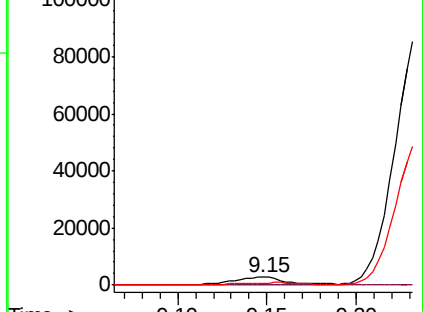
39 0.0 52.9 79.3#

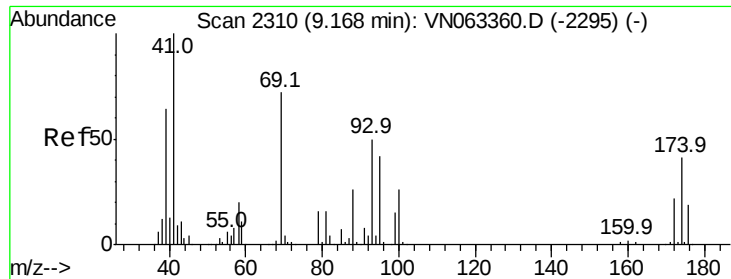


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

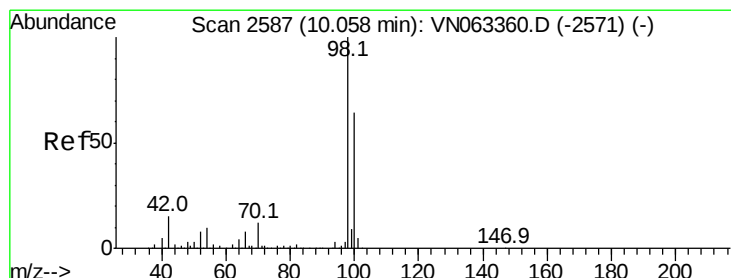
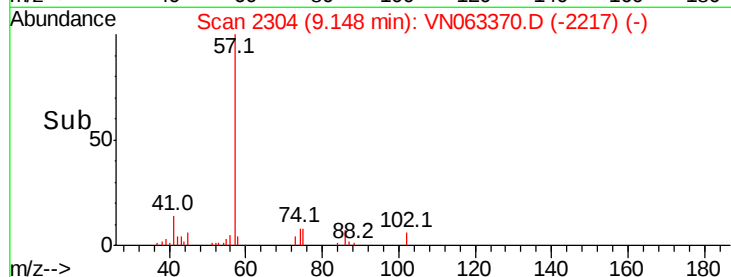
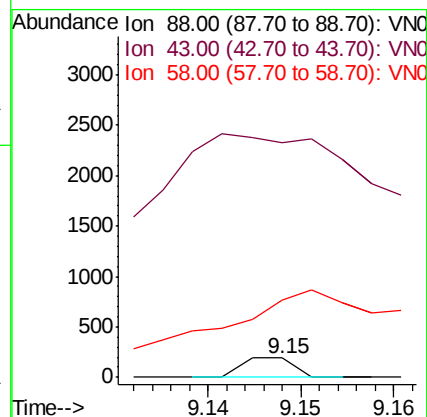
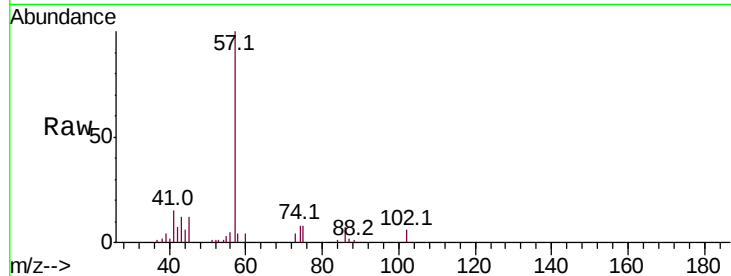




#49
1,4-Dioxane
Concen: 1.212 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063370.D
Acq: 16 Sep 2020 17:30

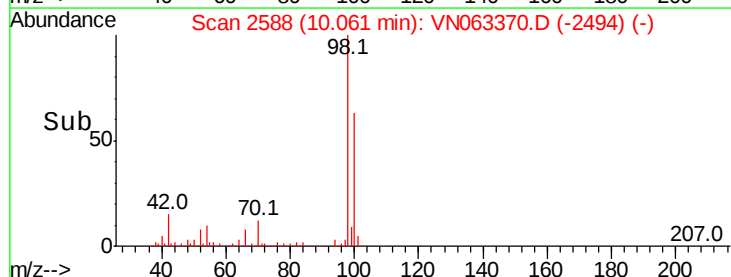
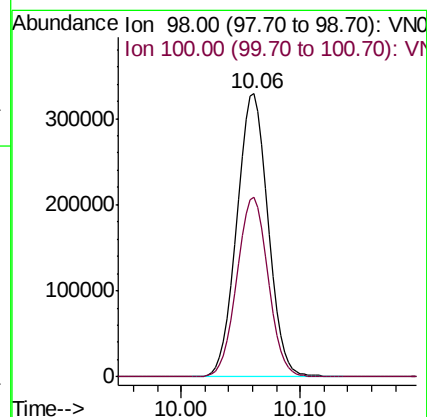
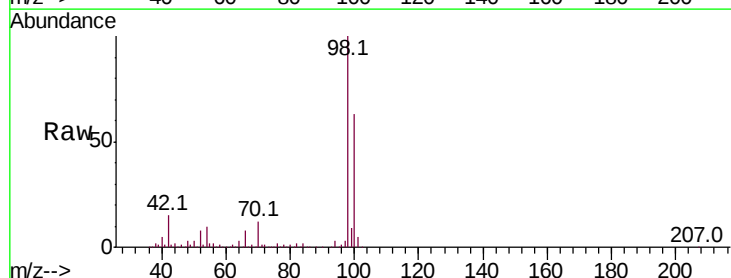
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#03

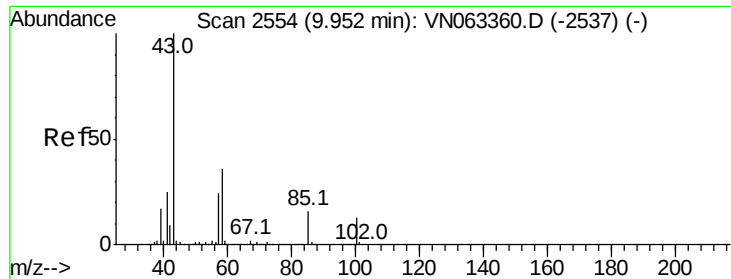
Tot Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 2343.2 60.0 90.0#



#50
Toluene-d8
Concen: 49.780 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063370.D
Acq: 16 Sep 2020 17:30

Tgt Ion: 98 Resp: 600375
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 2.310 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

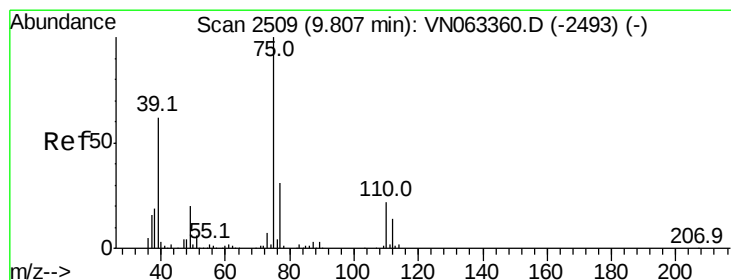
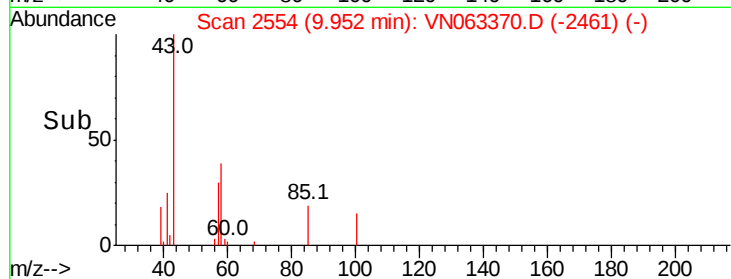
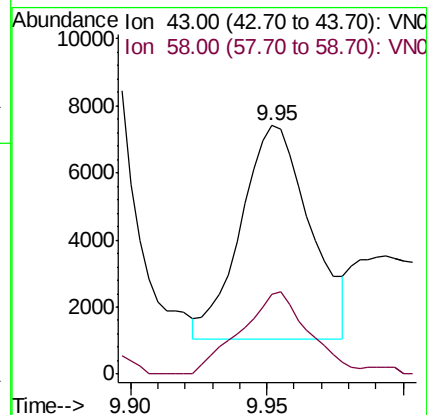
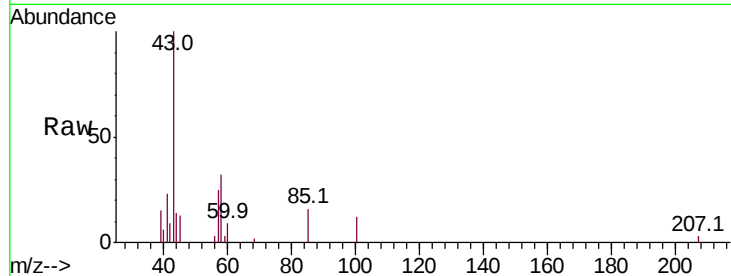
PB131646ZHE#03

Tot Ion: 43 Resp: 11203

Ion Ratio Lower Upper

43 100

58 37.8 29.0 43.6



#54

cis-1,3-Dichloropropene

Concen: 6.834 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

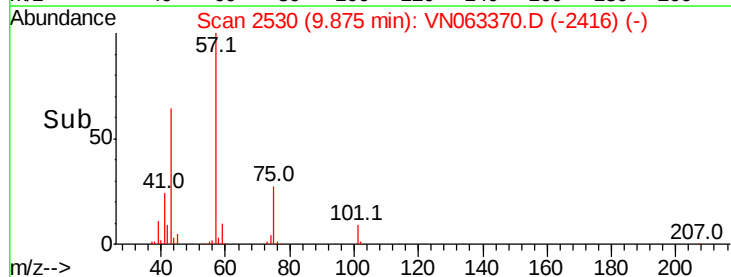
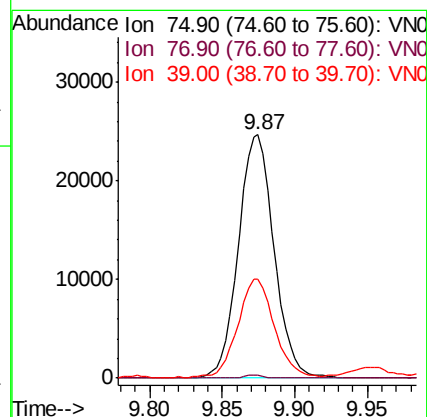
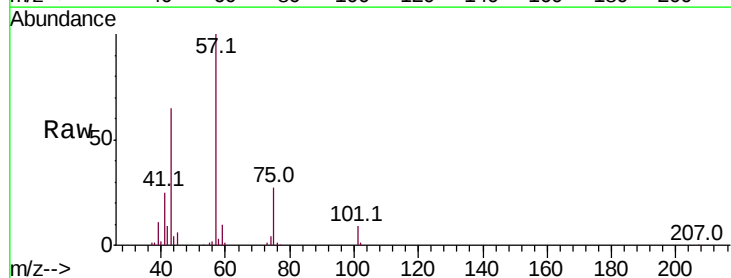
Tgt Ion: 75 Resp: 42167

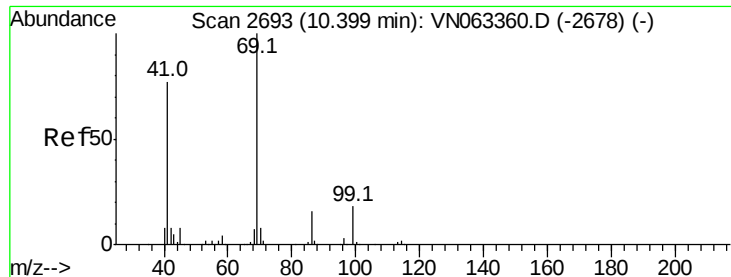
Ion Ratio Lower Upper

75 100

77 1.1 24.6 37.0#

39 40.0 49.8 74.8#





#56

Ethyl methacrylate

Concen: 0.293 ug/l

RT: 10.52 min Scan# 2732

Delta R.T. 0.13 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#03

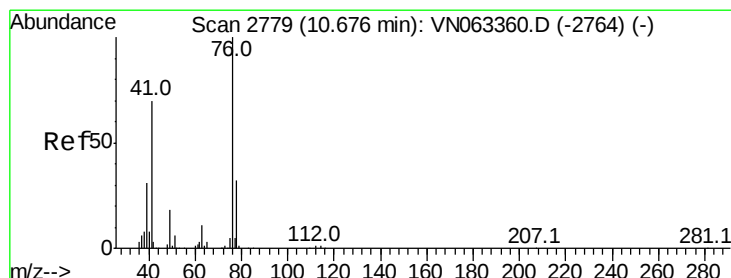
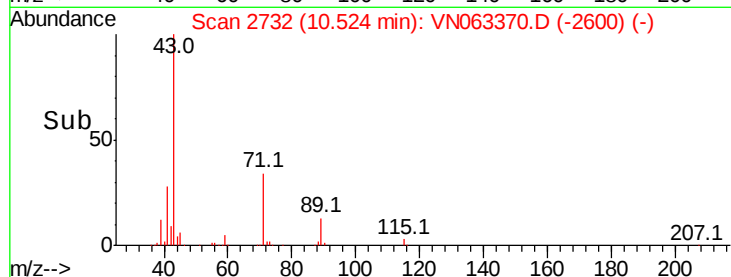
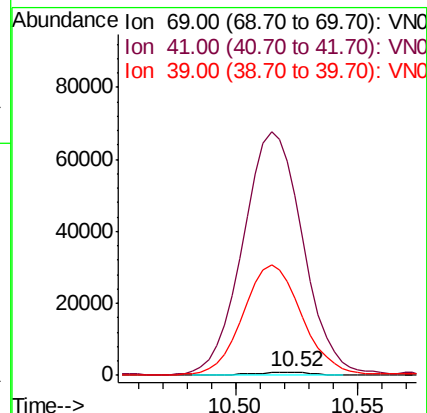
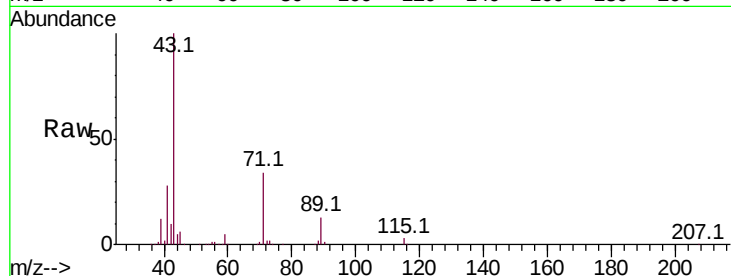
Tot Ion: 69 Resp: 1540

Ion Ratio Lower Upper

69 100

41 7467.8 61.0 91.6#

39 3369.9 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 1.075 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063370.D

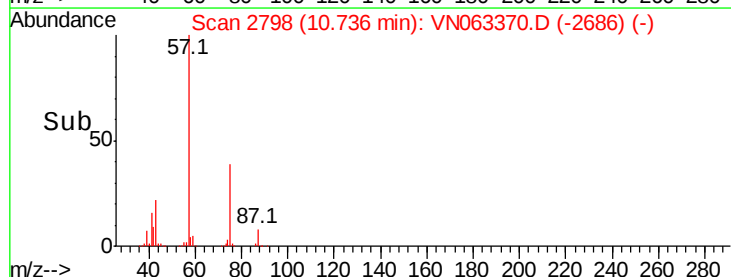
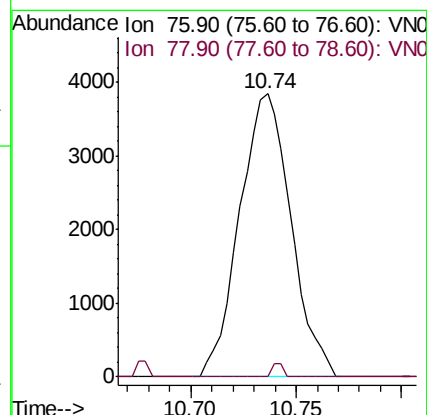
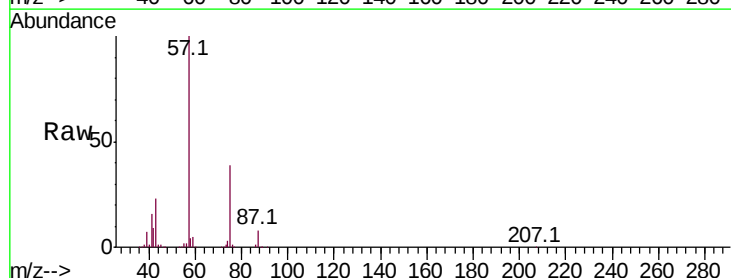
Acq: 16 Sep 2020 17:30

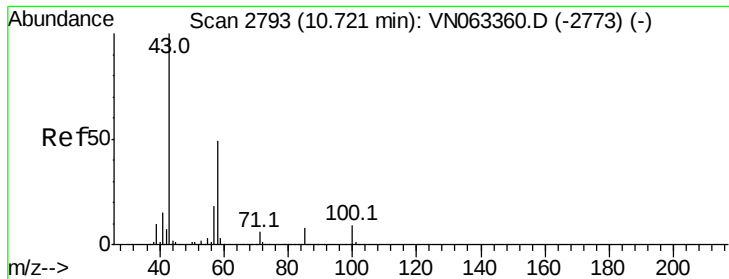
Tgt Ion: 76 Resp: 6522

Ion Ratio Lower Upper

76 100

78 1.0 25.8 38.8#





#59

2-Hexanone

Concen: 31.481 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

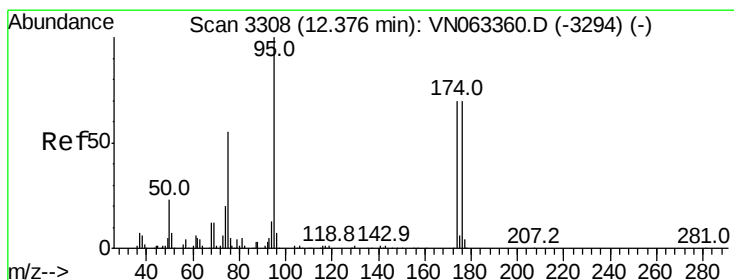
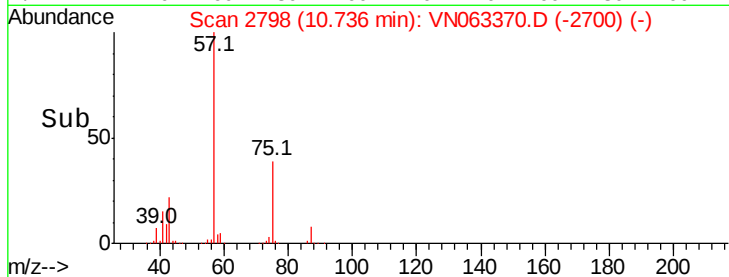
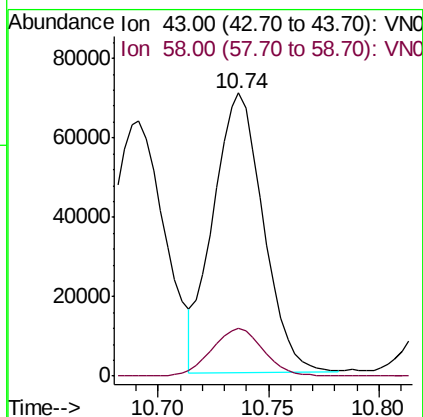
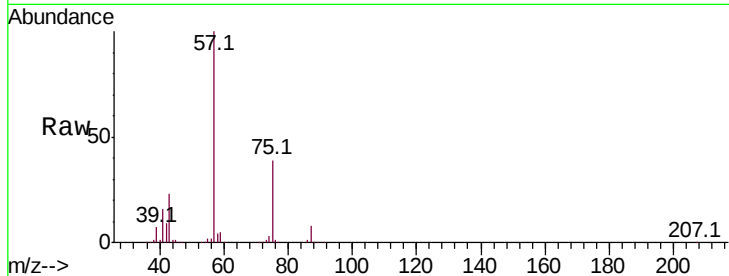
PB131646ZHE#03

Tot Ion: 43 Resp: 110604

Ion Ratio Lower Upper

43 100

58 17.8 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 53.495 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

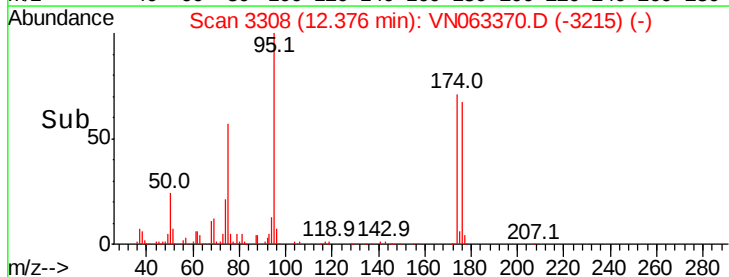
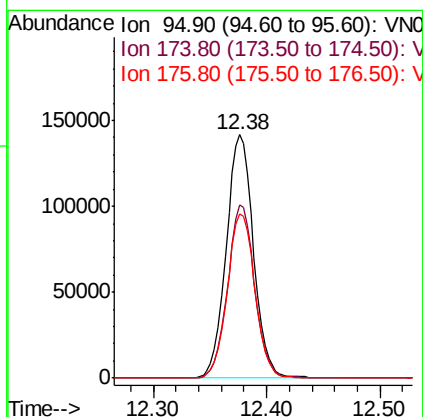
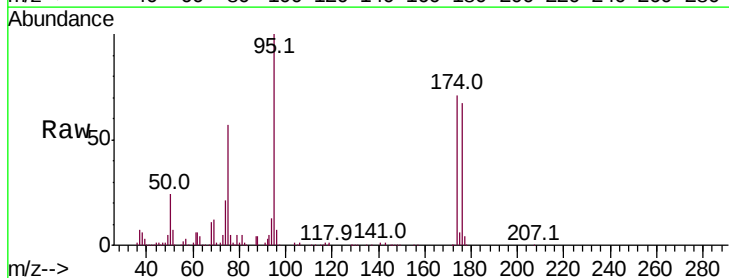
Tgt Ion: 95 Resp: 236510

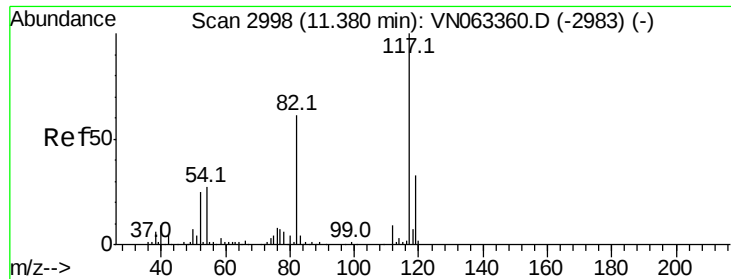
Ion Ratio Lower Upper

95 100

174 70.7 0.0 140.8

176 68.6 0.0 137.6

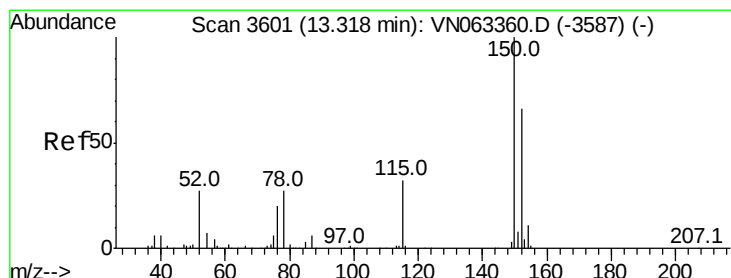
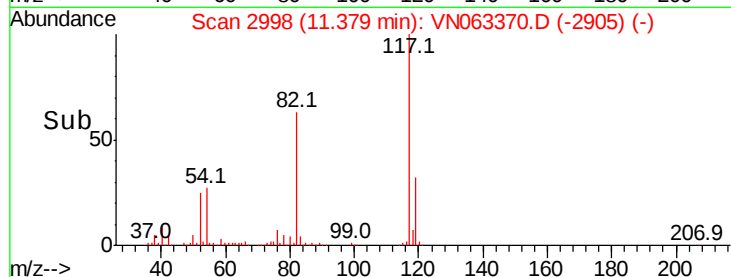
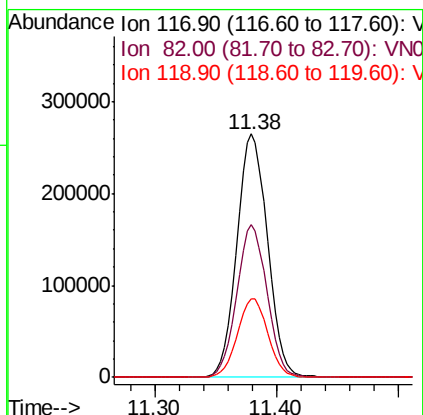
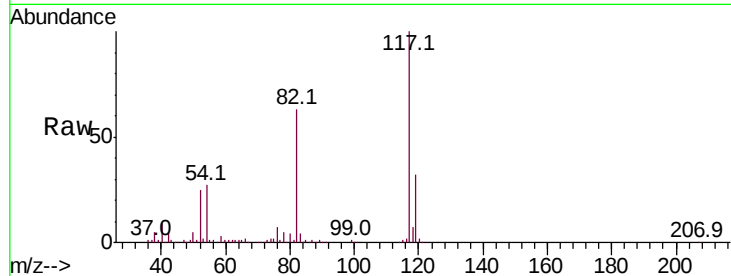




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063370.D
Acq: 16 Sep 2020 17:30

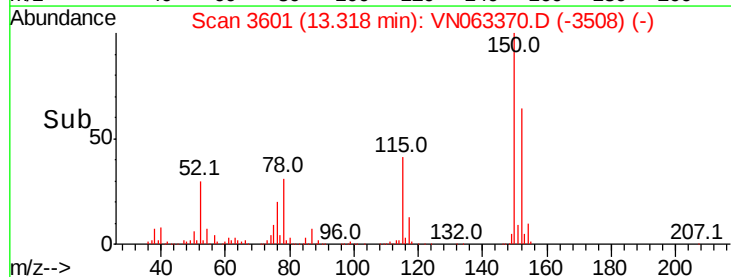
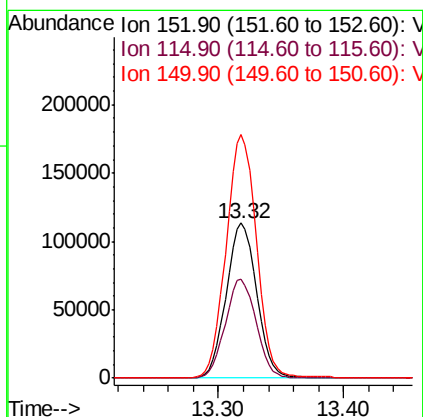
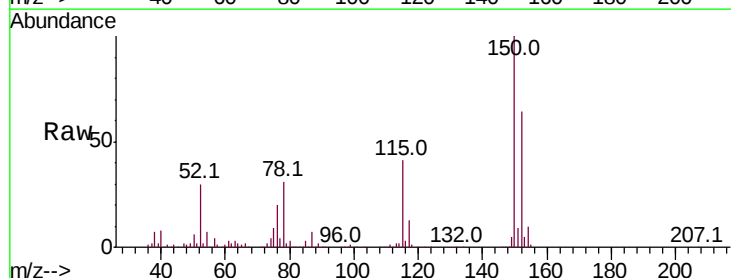
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#03

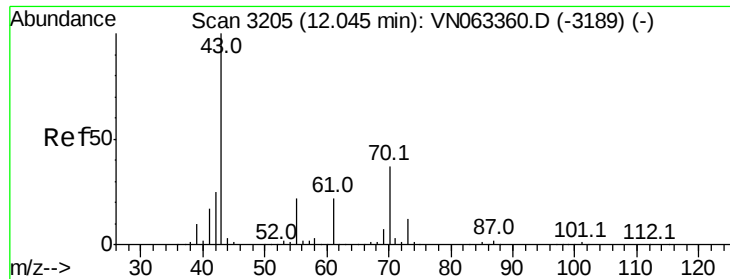
Tot Ion:117 Resp: 459370
Ion Ratio Lower Upper
117 100
82 62.8 49.2 73.8
119 32.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063370.D
Acq: 16 Sep 2020 17:30

Tgt Ion:152 Resp: 191754
Ion Ratio Lower Upper
152 100
115 64.4 32.2 96.6
150 156.4 0.0 343.4





#74

N-amyl acetate

Concen: 0.702 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#03

Tot Ion: 43 Resp: 5109

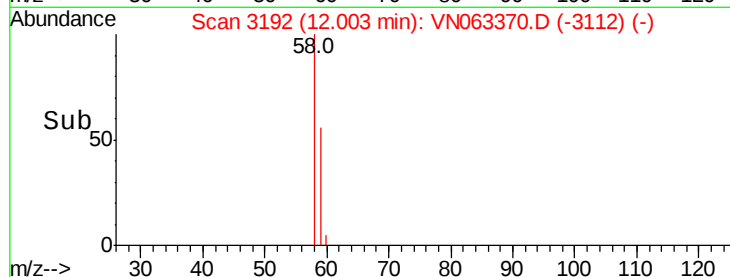
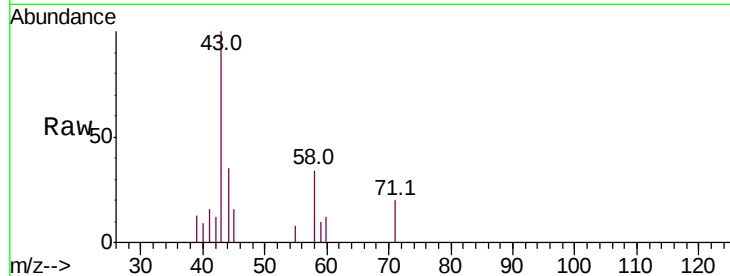
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 7.9 17.7 26.5#

61 0.0 17.4 26.2#

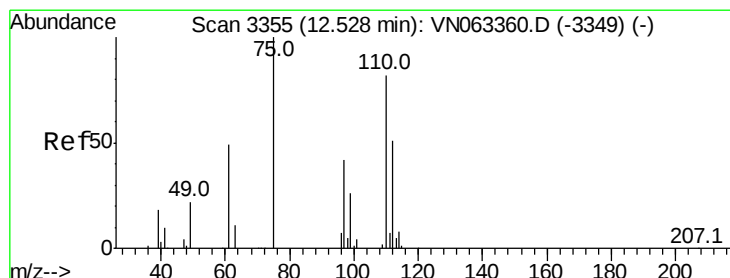
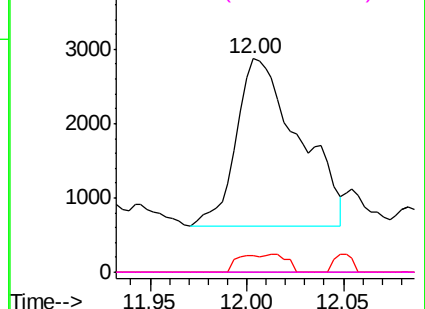


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.362 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063370.D

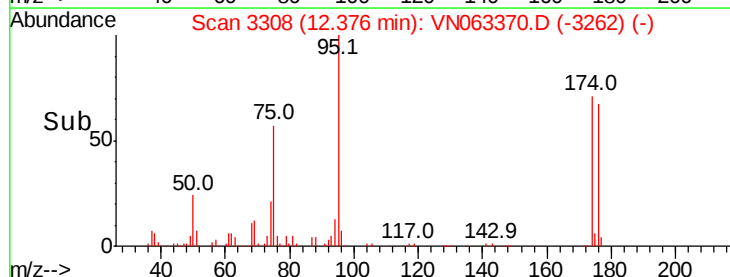
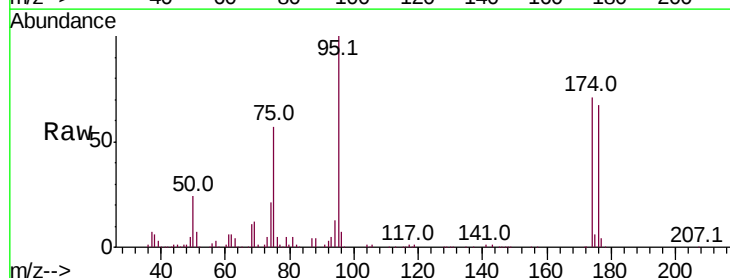
Acq: 16 Sep 2020 17:30

Tgt Ion: 75 Resp: 134610

Ion Ratio Lower Upper

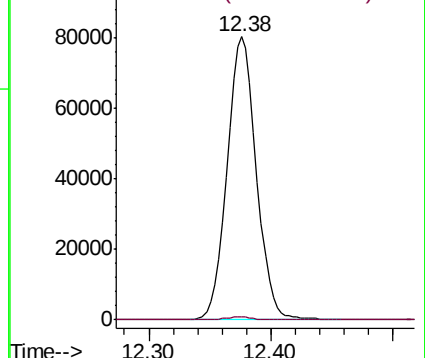
75 100

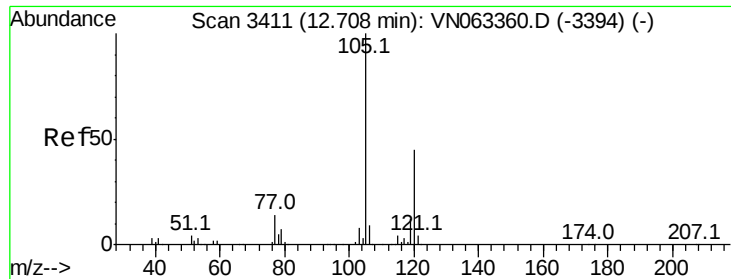
77 0.9 0.0 0.0#



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: 0.350 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

Instrument :

MSVOA_N

ClientSampleId :

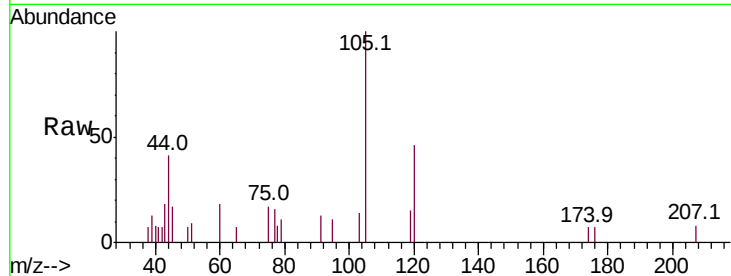
PB131646ZHE#03

Tot Ion:105 Resp: 4485

Ion Ratio Lower Upper

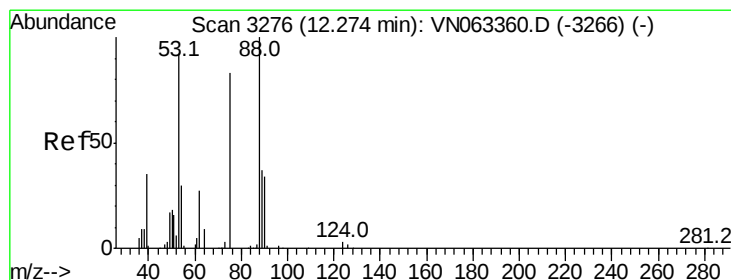
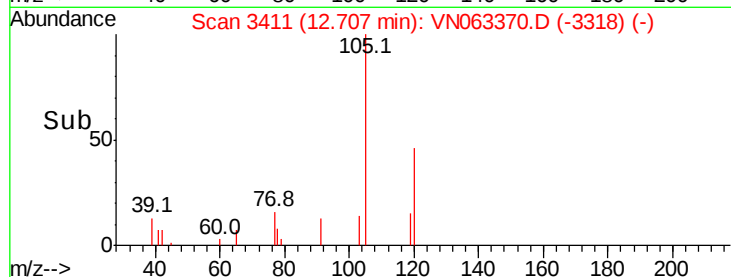
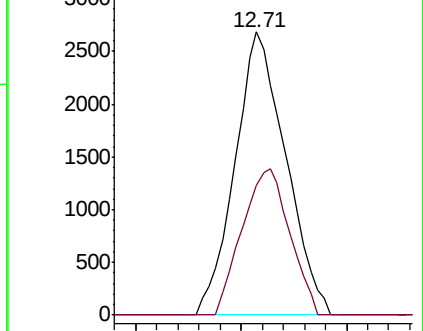
105 100

120 48.5 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: 77.757 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063370.D

Acq: 16 Sep 2020 17:30

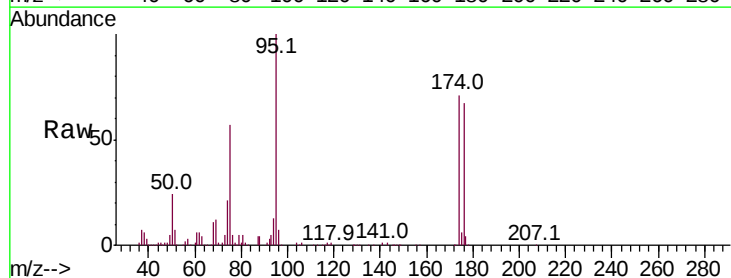
Tgt Ion: 75 Resp: 134610

Ion Ratio Lower Upper

75 100

53 0.0 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

