

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063374.D
 Acq On : 16 Sep 2020 19:06
 Operator : JC/MD
 Sample : PB131646ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#07

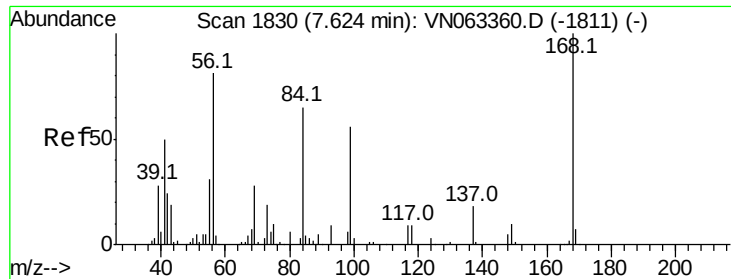
Quant Time: Sep 17 04:07:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	237282	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	454615	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	453589	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	193948	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	197427	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	
35) Dibromofluoromethane	7.55	113	146132	46.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.86%	
50) Toluene-d8	10.06	98	586657	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
62) 4-Bromofluorobenzene	12.38	95	235111	54.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.77	43	13366	10.296	ug/l	100
18) Methyl Acetate	4.28	43	1816	0.551	ug/l #	10
20) Methylene Chloride	4.51	84	13072	3.975	ug/l	94
25) 2-Butanone	6.80	43	3981	1.994	ug/l #	86
29) Tetrahydrofuran	7.18	42	1634	1.198	ug/l #	65
31) Cyclohexane	7.63	56	6838	1.226	ug/l #	33
36) 1,1-Dichloropropene	7.62	75	22765	4.700	ug/l #	50
38) Carbon Tetrachloride	7.63	117	28031	5.670	ug/l #	16
43) Isopropyl Acetate	8.13	43	91282	10.739	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1583	0.420	ug/l #	43
48) Methyl methacrylate	9.24	41	148003	35.442	ug/l #	49
51) 4-Methyl-2-Pentanone	9.95	43	9070	1.906	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	37907	6.261	ug/l #	65
56) Ethyl methacrylate	10.52	69	1592	0.309	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6401	1.075	ug/l #	42
59) 2-Hexanone	10.74	43	102681	29.786	ug/l #	54
74) N-amyl acetate	12.01	43	2224	0.302	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	131938	27.484	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	10672	0.823	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	131938	75.352	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: VN063374.D

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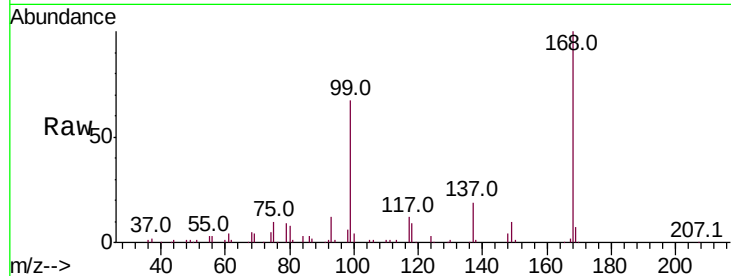
PB131646ZHE#07

Tot Ion:168 Resp: 237282

Ion Ratio Lower Upper

168 100

99 67.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

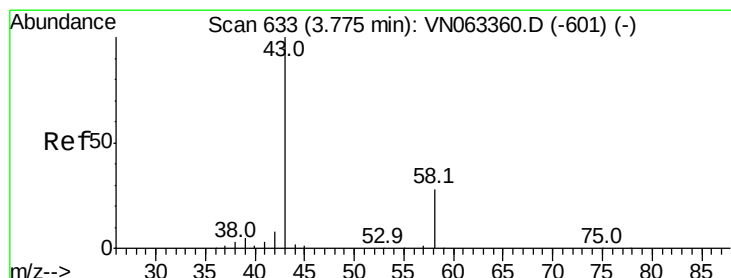
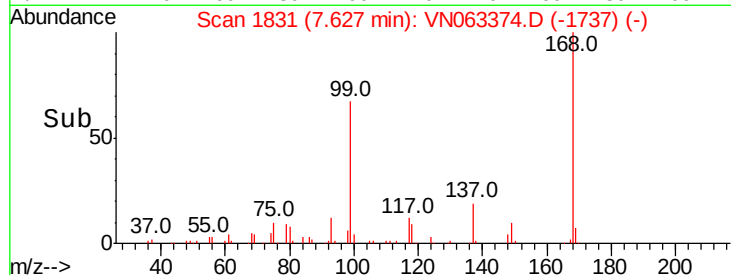
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 10.296 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN063374.D

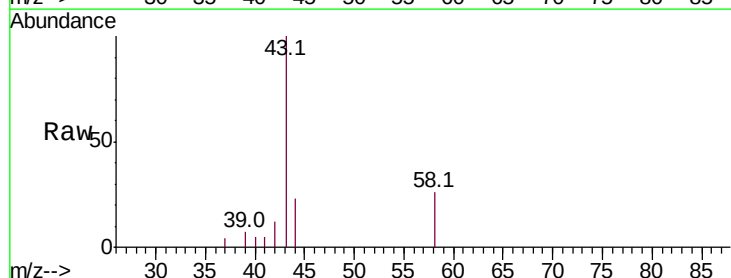
Acq: 16 Sep 2020 19:06

Tgt Ion: 43 Resp: 13366

Ion Ratio Lower Upper

43 100

58 27.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.77

5000

4000

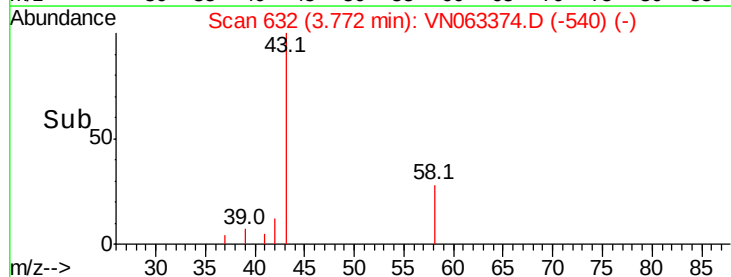
3000

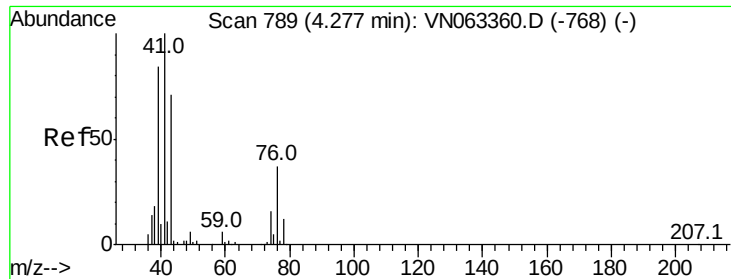
2000

1000

0

Time--> 3.70 3.80 3.90

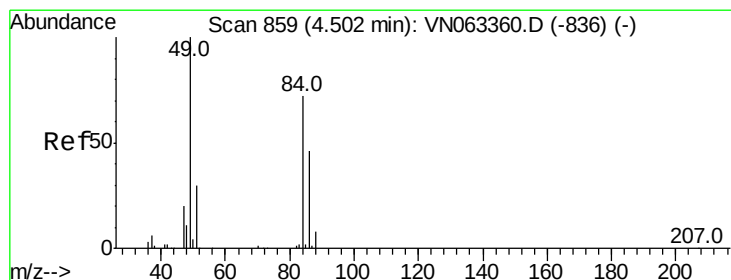
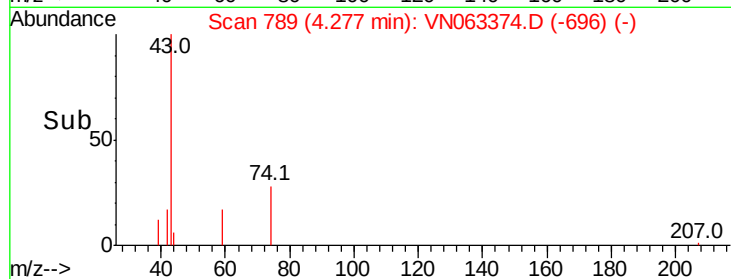
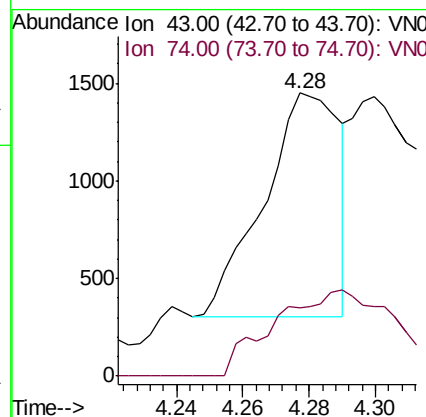
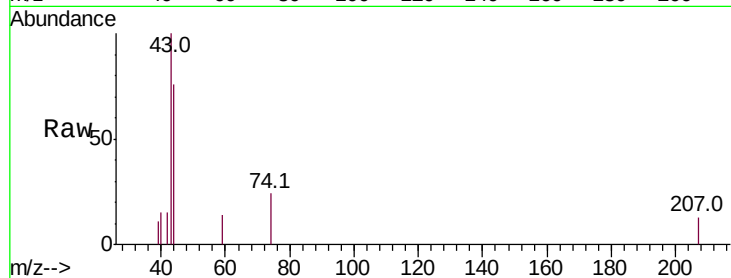




#18
Methvl Acetate
Concen: 0.551 ug/l
RT: 4.28 min Scan# 789
Delta R.T. 0.00 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

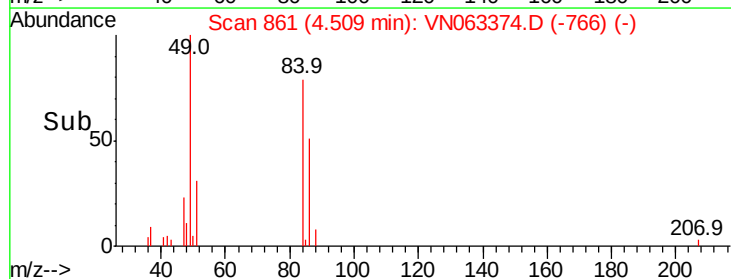
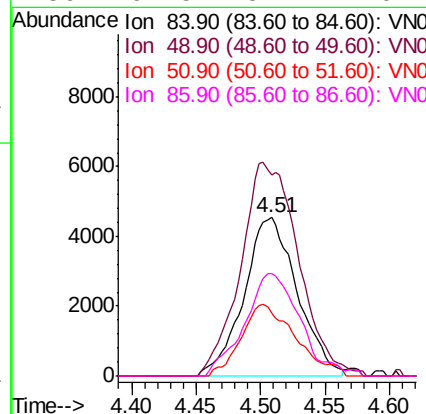
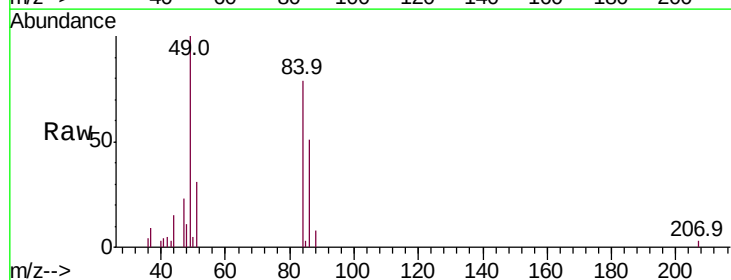
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#07

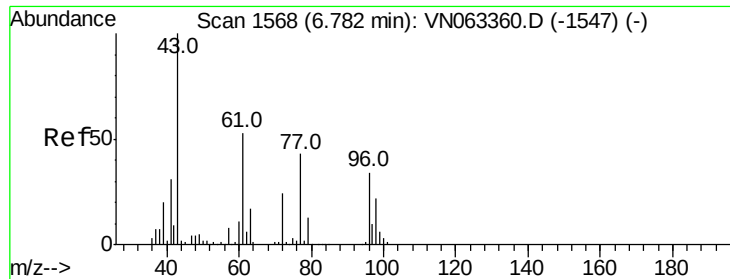
Tot Ion: 43 Resp: 1816
Ion Ratio Lower Upper
43 100
74 64.8 17.4 26.2#



#20
Methylene Chloride
Concen: 3.975 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

Tgt Ion: 84 Resp: 13072
Ion Ratio Lower Upper
84 100
49 126.9 110.7 166.1
51 39.8 32.9 49.3
86 64.5 51.1 76.7





#25

2-Butanone

Concen: 1.994 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

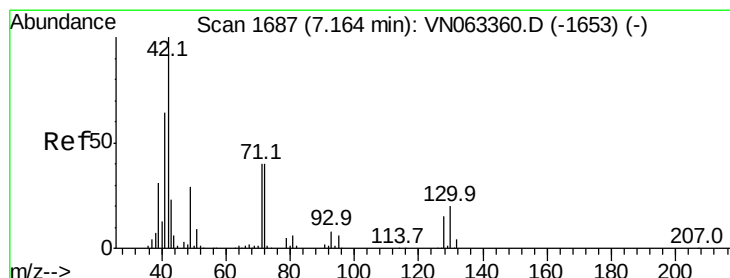
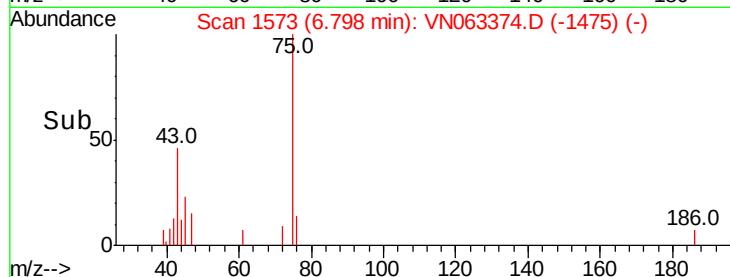
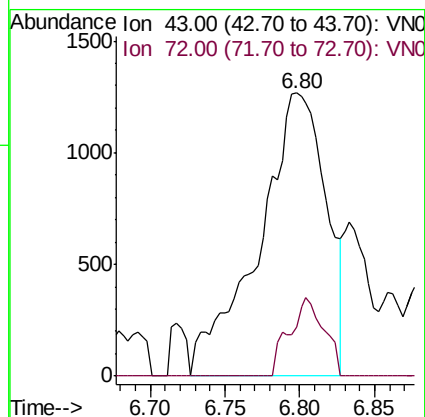
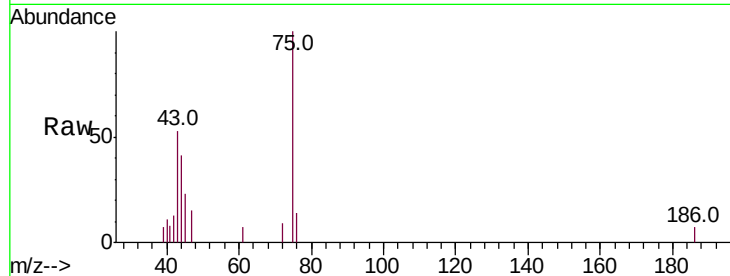
PB131646ZHE#07

Tot Ion: 43 Resp: 3981

Ion Ratio Lower Upper

43 100

72 17.2 19.2 28.8#



#29

Tetrahydrofuran

Concen: 1.198 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

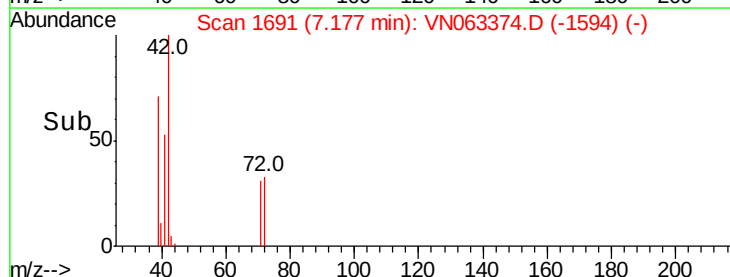
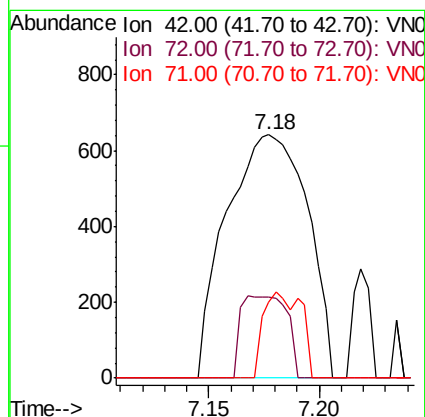
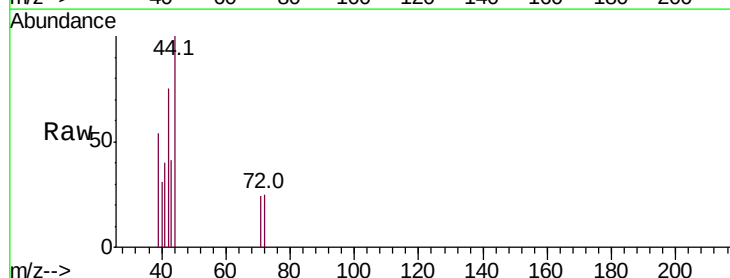
Tgt Ion: 42 Resp: 1634

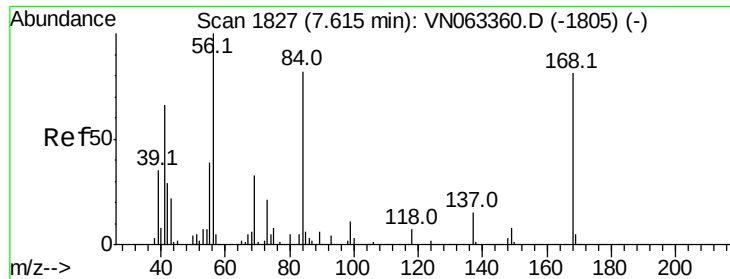
Ion Ratio Lower Upper

42 100

72 19.1 32.1 48.1#

71 16.4 31.2 46.8#

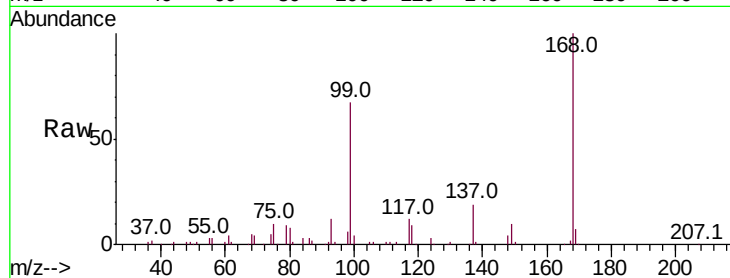




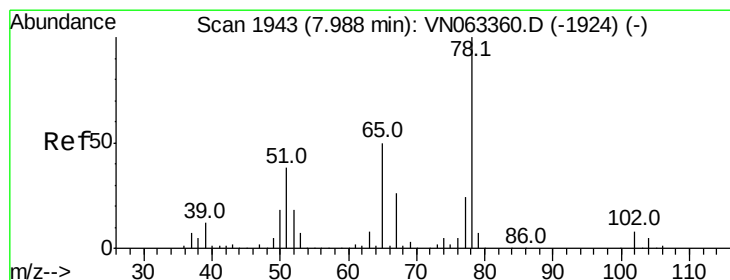
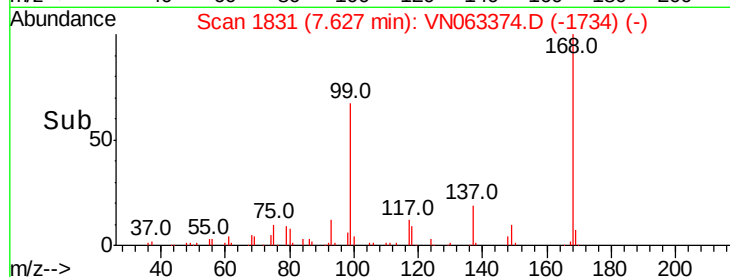
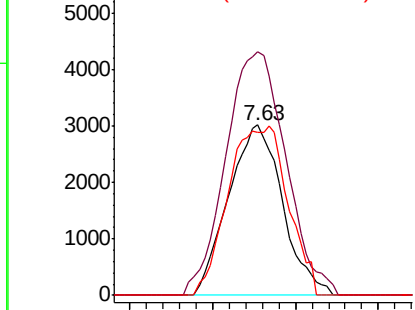
#31
Cyclohexane
Concen: 1.226 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#07

Tot Ion: 56 Resp: 6838
Ion Ratio Lower Upper
56 100
69 142.8 26.1 39.1#
84 95.7 65.4 98.2

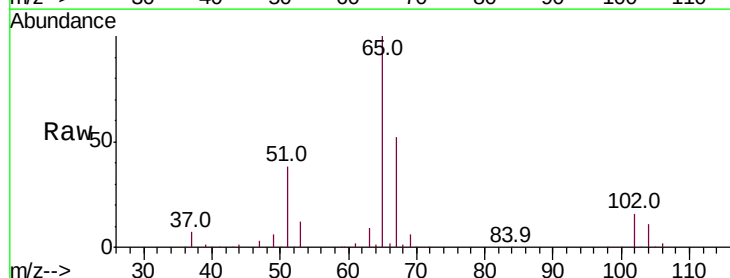


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

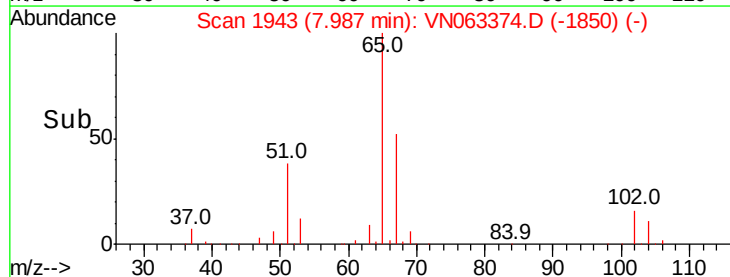
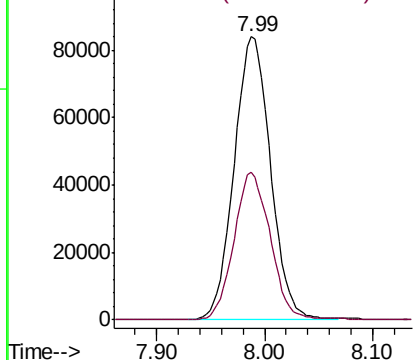


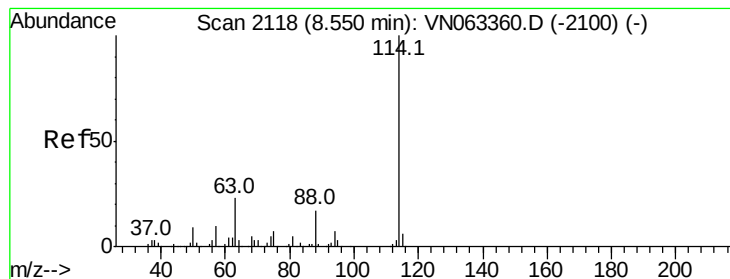
#33
1,2-Dichloroethane-d4
Concen: 48.878 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

Tgt Ion: 65 Resp: 197427
Ion Ratio Lower Upper
65 100
67 51.8 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: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#07

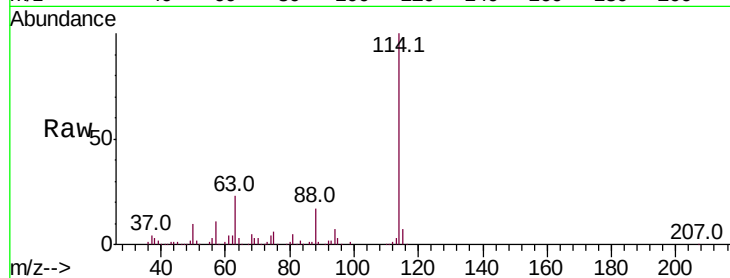
Tot Ion:114 Resp: 454615

Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.4

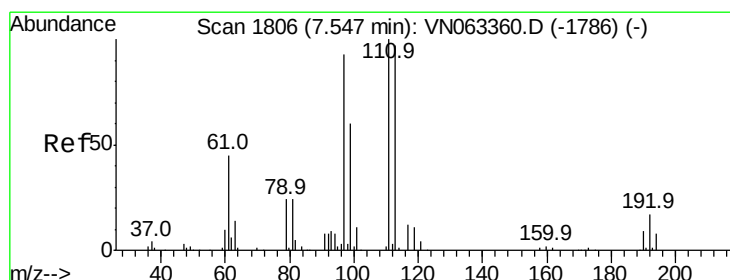
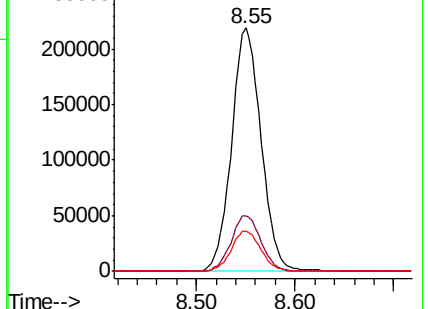
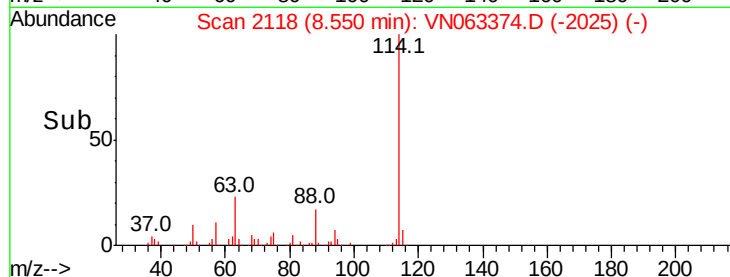
88 16.5 0.0 33.2



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: 46.432 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

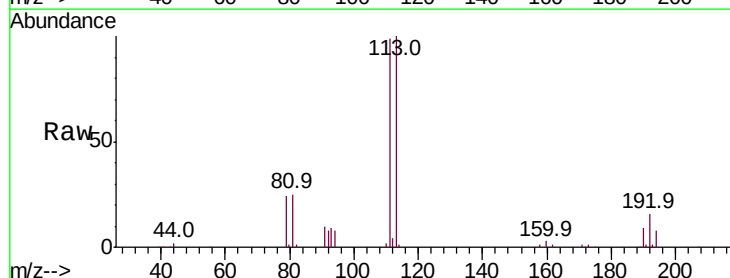
Tgt Ion:113 Resp: 146132

Ion Ratio Lower Upper

113 100

111 102.8 82.9 124.3

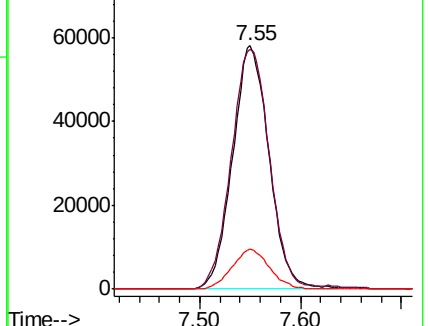
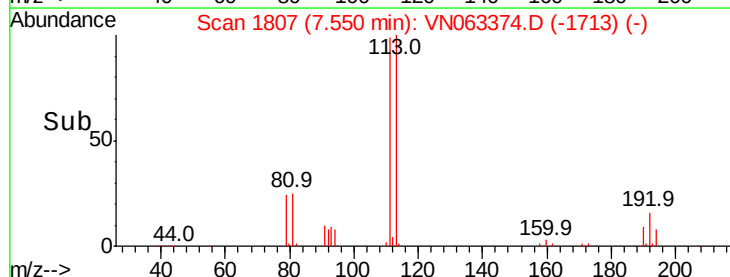
192 16.8 13.9 20.9

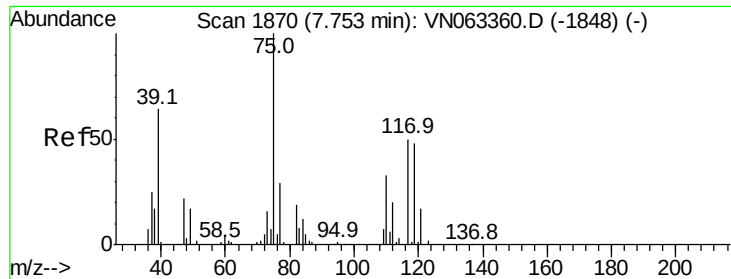


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

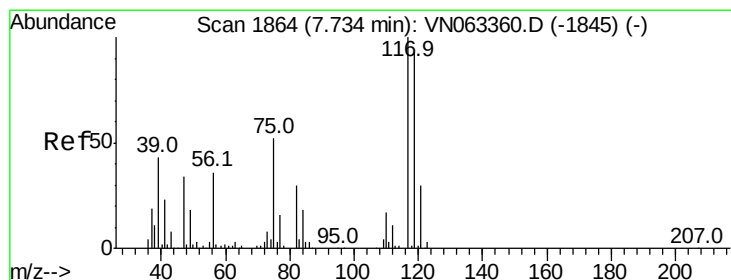
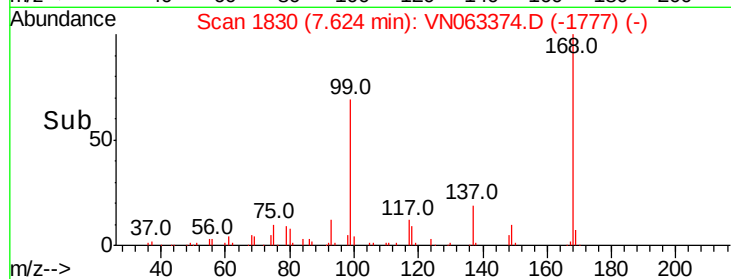
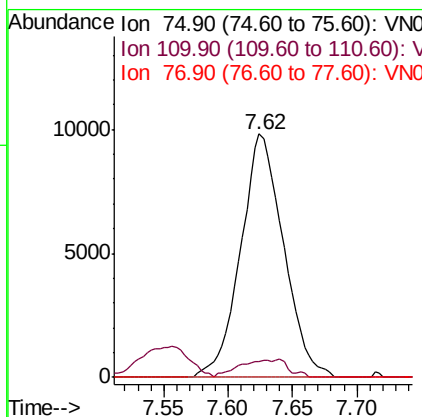
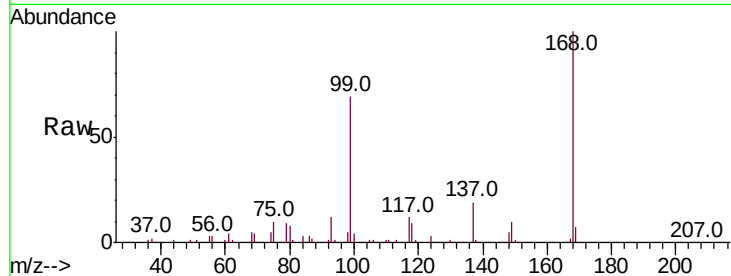




#36
 1,1-Dichloropropene
 Concen: 4.700 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063374.D
 Acq: 16 Sep 2020 19:06

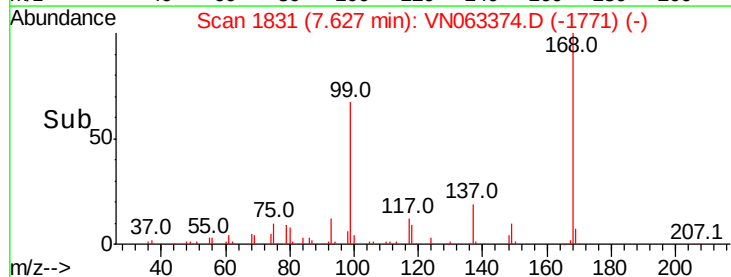
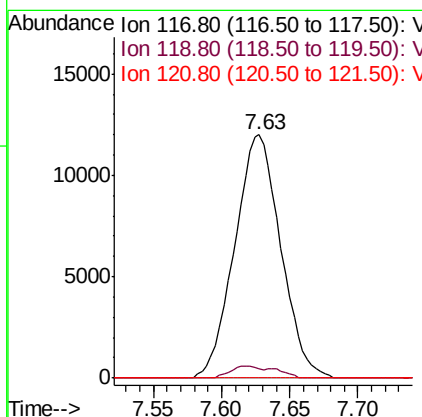
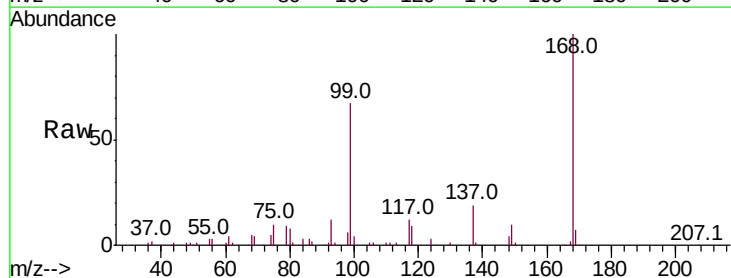
Instrument :
 MSVOA_N
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 PB131646ZHE#07

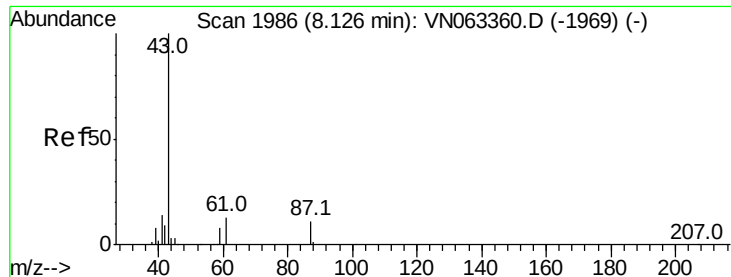
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.670 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063374.D
 Acq: 16 Sep 2020 19:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	74.5	111.7#
121	0.0	24.1	36.1#





#43

Isopropyl Acetate

Concen: 10.739 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#07

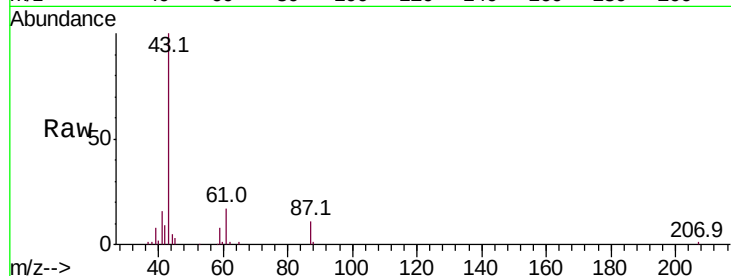
Tot Ion: 43 Resp: 91282

Ion Ratio Lower Upper

43 100

61 18.2 14.2 21.2

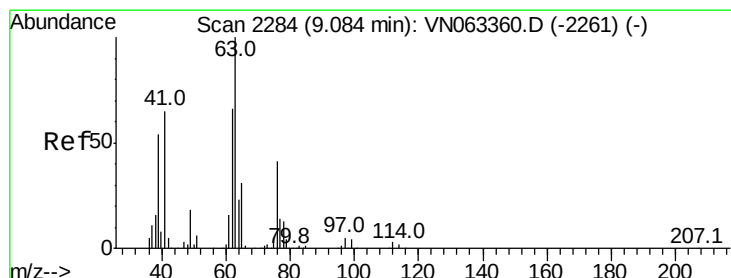
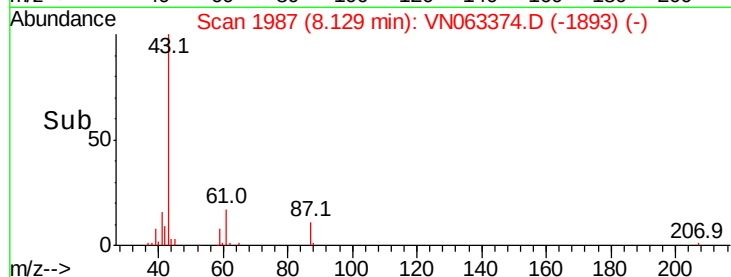
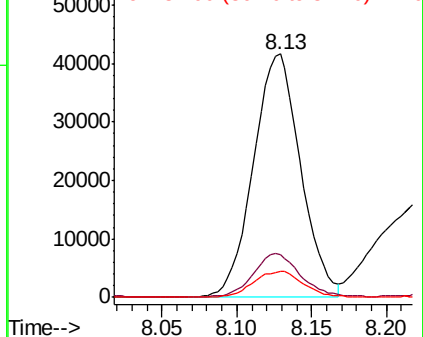
87 11.2 9.0 13.6



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: 0.420 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063374.D

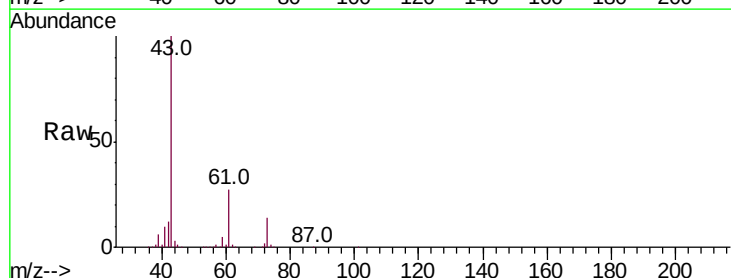
Acq: 16 Sep 2020 19:06

Tgt Ion: 63 Resp: 1583

Ion Ratio Lower Upper

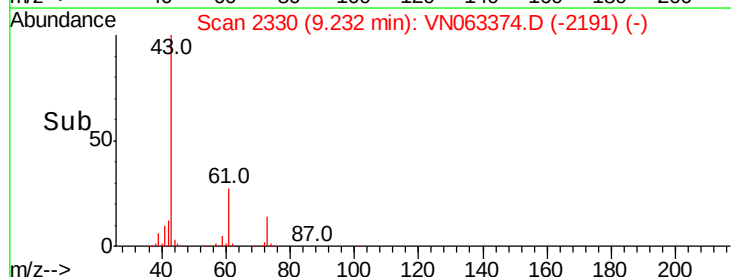
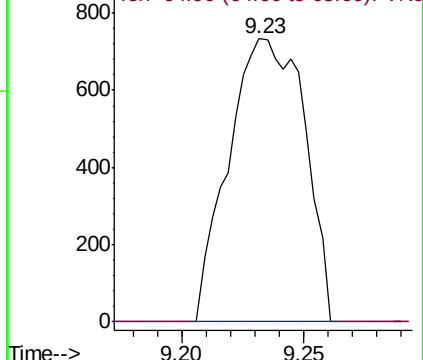
63 100

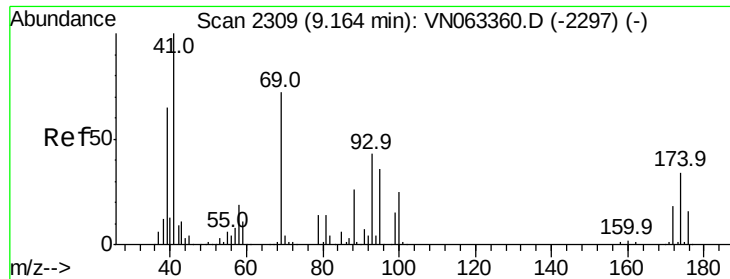
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 35.442 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#07

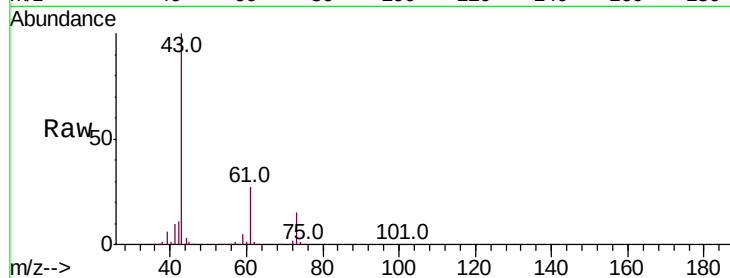
Tot Ion: 41 Resp: 148003

Ion Ratio Lower Upper

41 100

69 0.1 59.3 88.9#

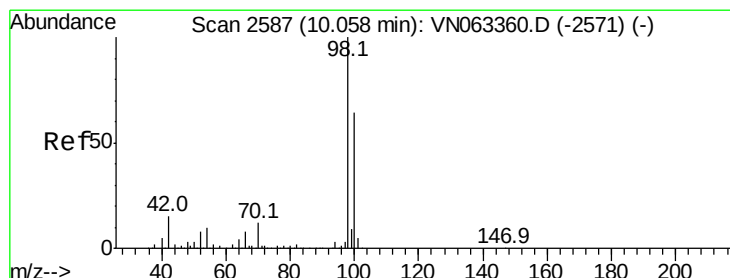
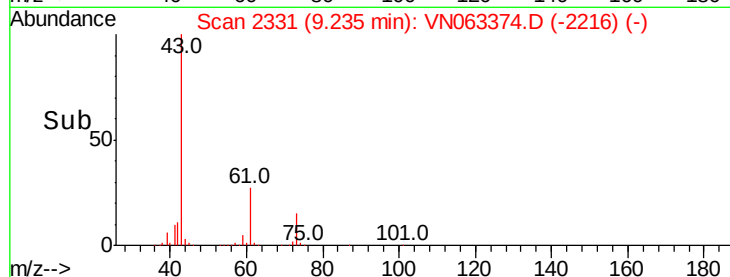
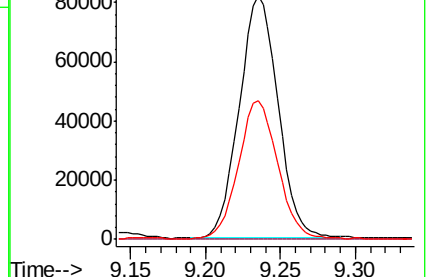
39 57.6 52.9 79.3



Abundance Ion 41.00 (40.70 to 41.70): VN063360.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2297) (-)



#50

Toluene-d8

Concen: 49.574 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063374.D

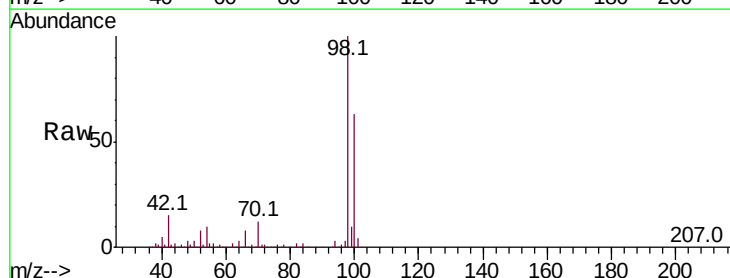
Acq: 16 Sep 2020 19:06

Tgt Ion: 98 Resp: 586657

Ion Ratio Lower Upper

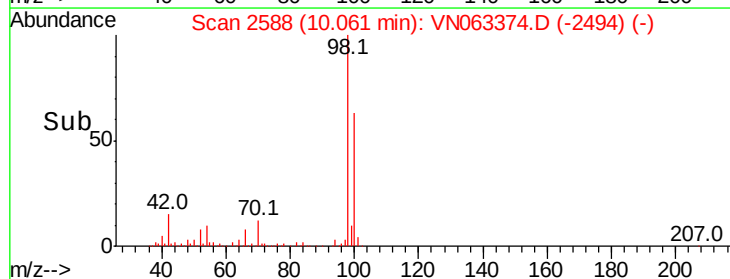
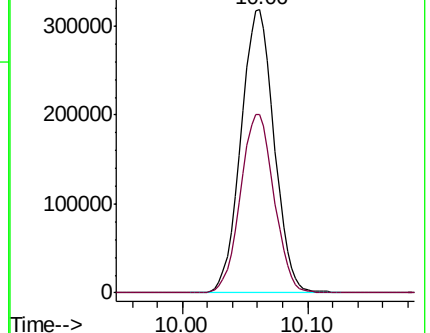
98 100

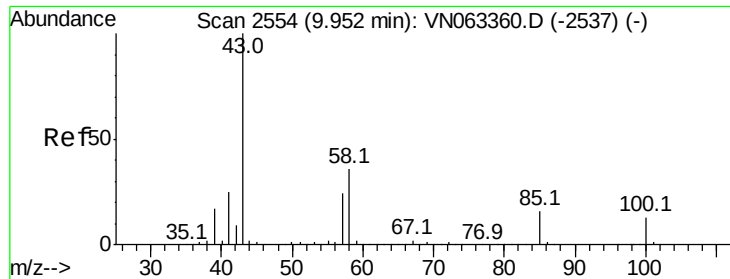
100 63.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)





#51

4-Methyl-2-Pentanone

Concen: 1.906 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

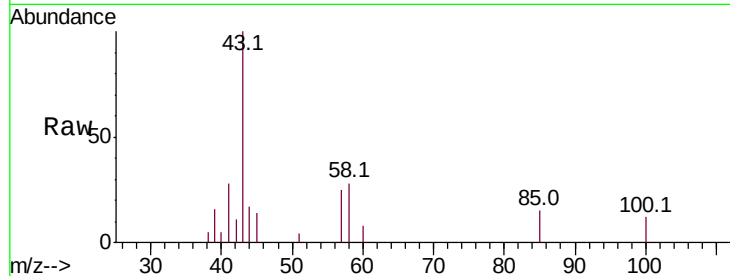
PB131646ZHE#07

Tot Ion: 43 Resp: 9070

Ion Ratio Lower Upper

43 100

58 35.8 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)

25000

20000

15000

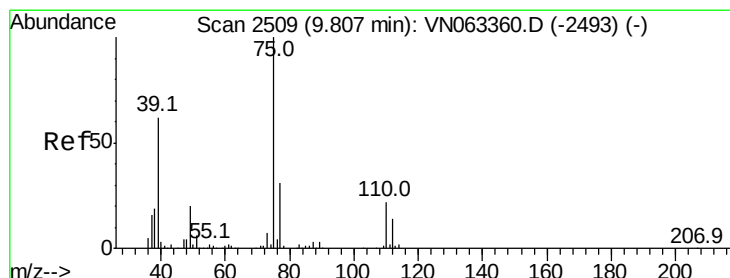
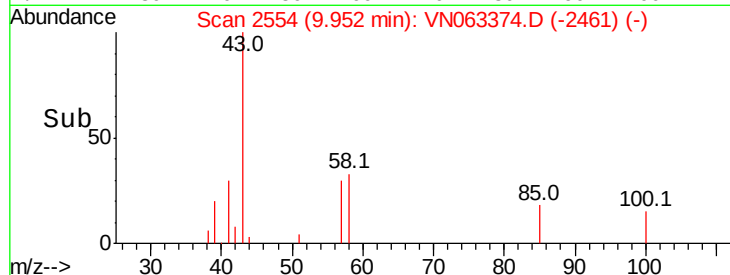
10000

5000

0

9.90 9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.261 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

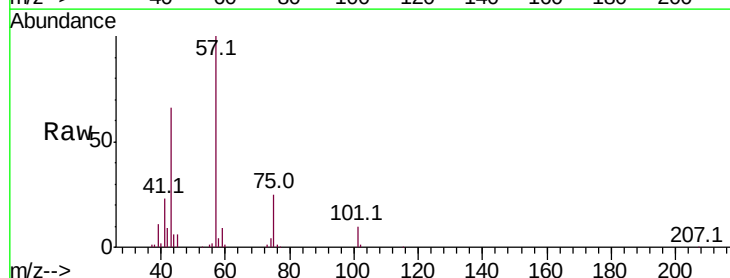
Tgt Ion: 75 Resp: 37907

Ion Ratio Lower Upper

75 100

77 1.2 24.6 37.0#

39 42.5 49.8 74.8#



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

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)

25000

20000

15000

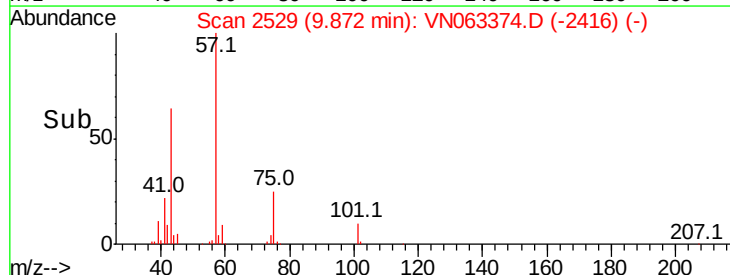
10000

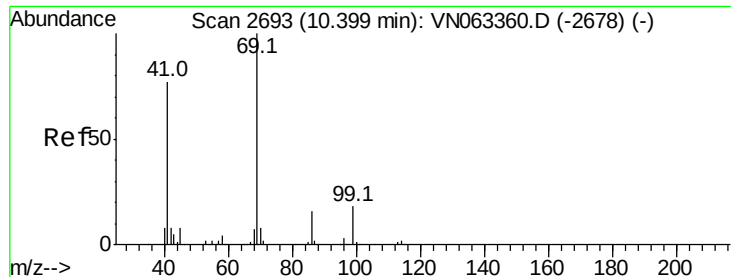
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.309 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#07

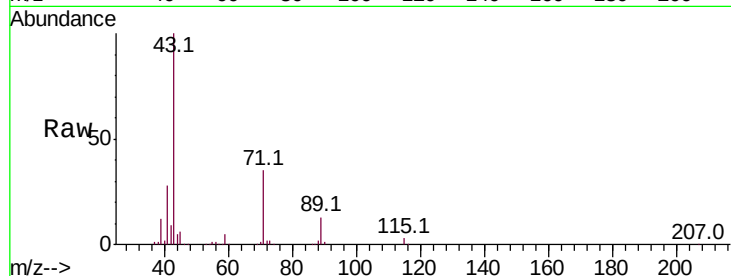
Tot Ion: 69 Resp: 1592

Ion Ratio Lower Upper

69 100

41 6659.2 61.0 91.6#

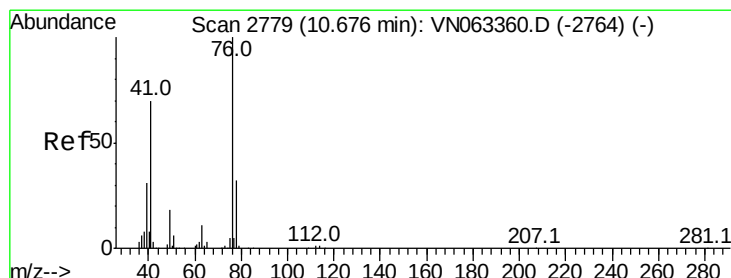
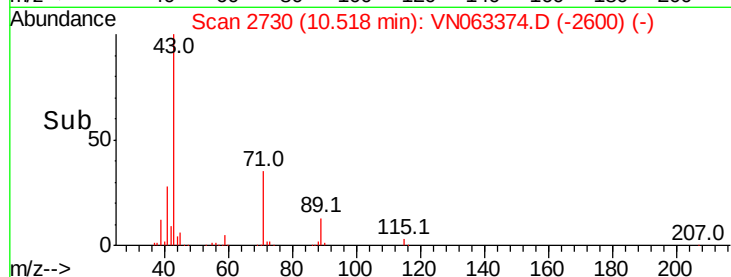
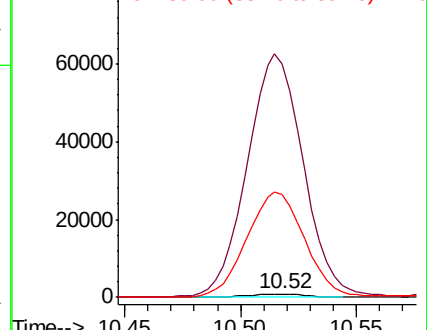
39 2977.7 39.2 58.8#



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: 1.075 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063374.D

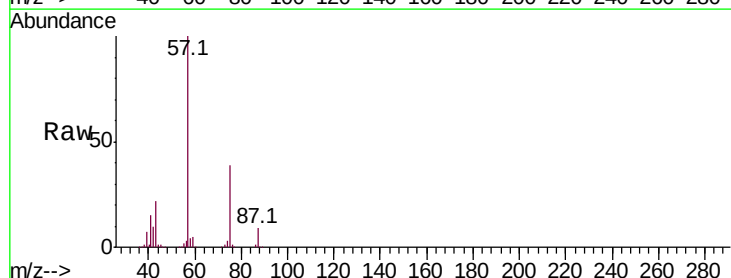
Acq: 16 Sep 2020 19:06

Tgt Ion: 76 Resp: 6401

Ion Ratio Lower Upper

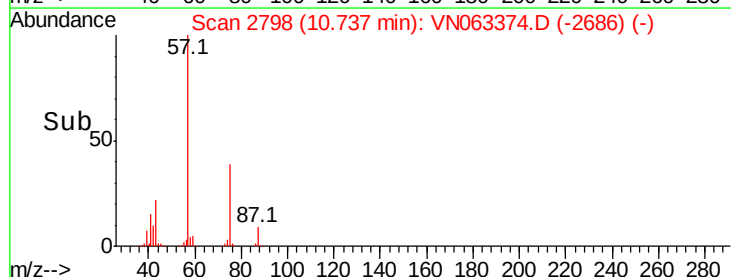
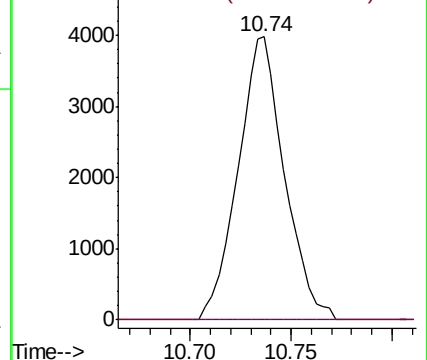
76 100

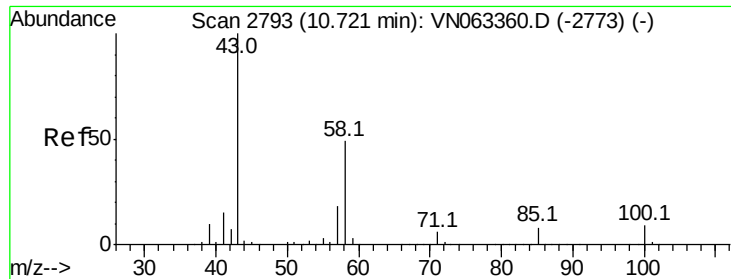
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

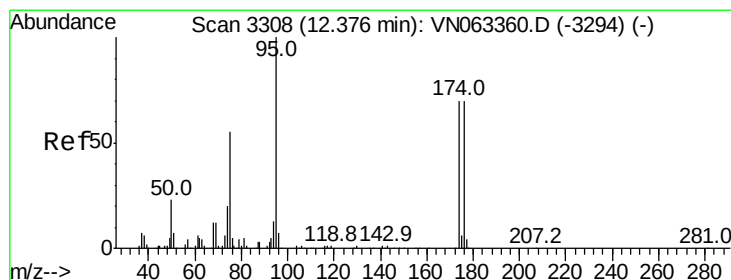
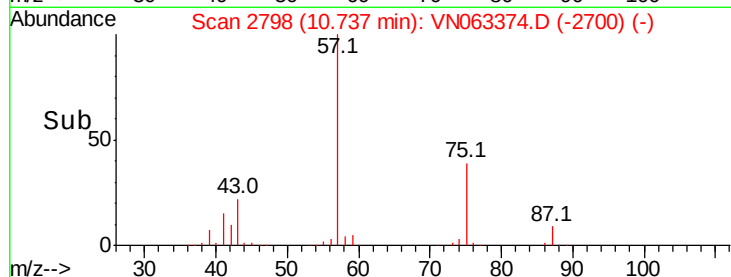
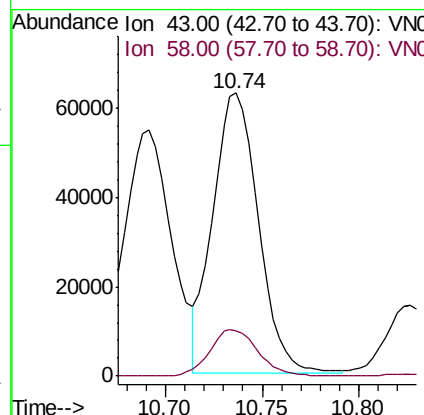
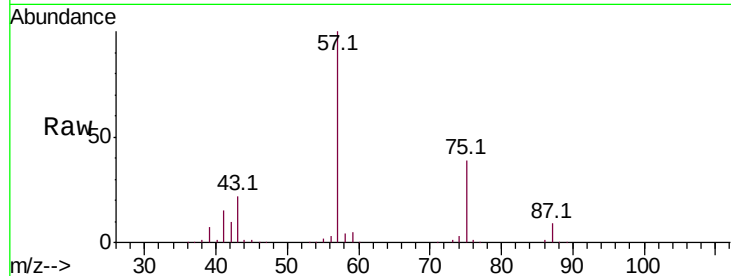




#59
2-Hexanone
Concen: 29.786 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

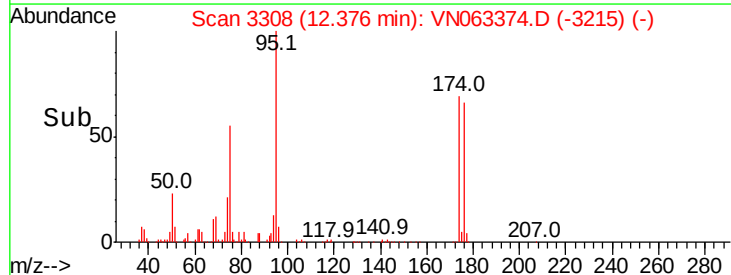
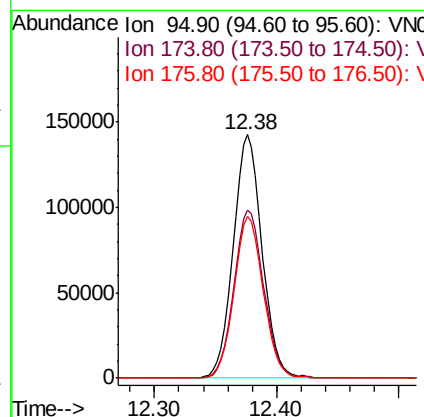
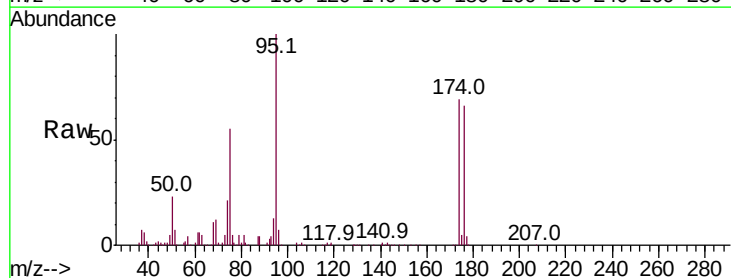
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#07

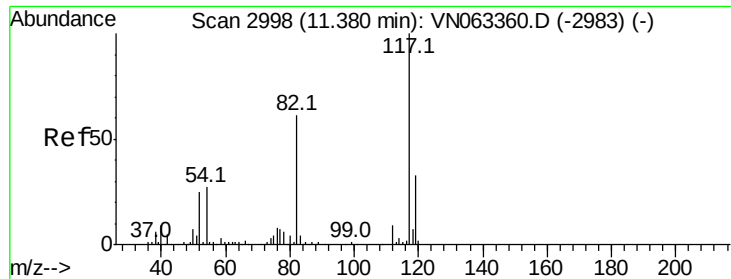
Tot Ion: 43 Resp: 102681
Ion Ratio Lower Upper
43 100
58 17.6 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 54.196 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

Tgt Ion: 95 Resp: 235111
Ion Ratio Lower Upper
95 100
174 71.3 0.0 140.8
176 67.2 0.0 137.6

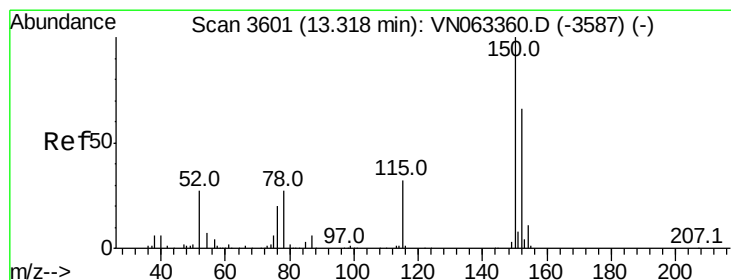
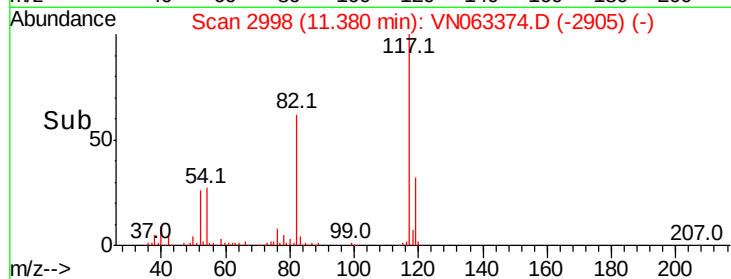
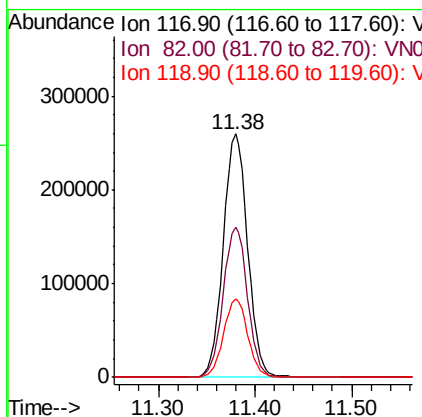
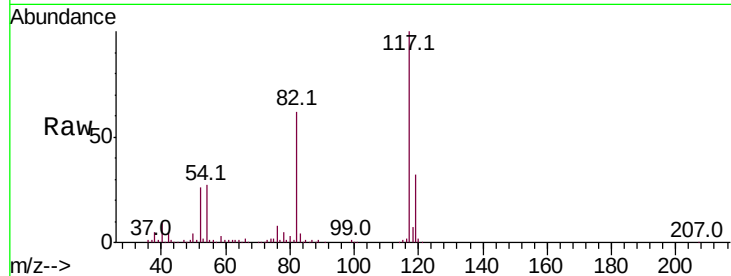




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

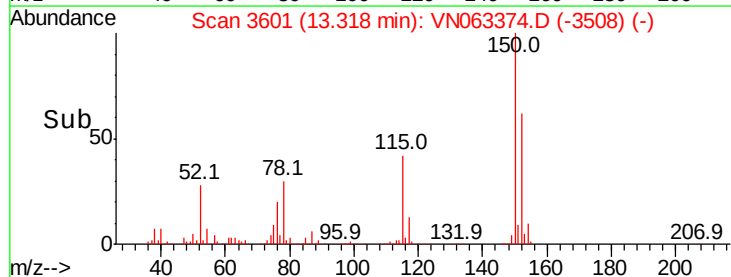
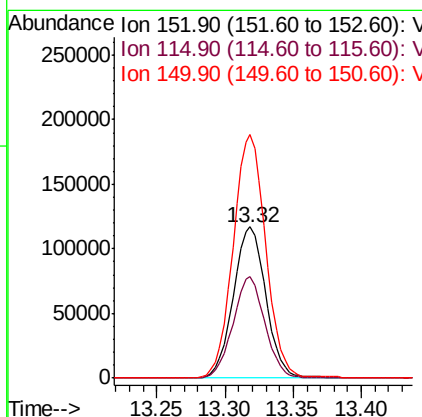
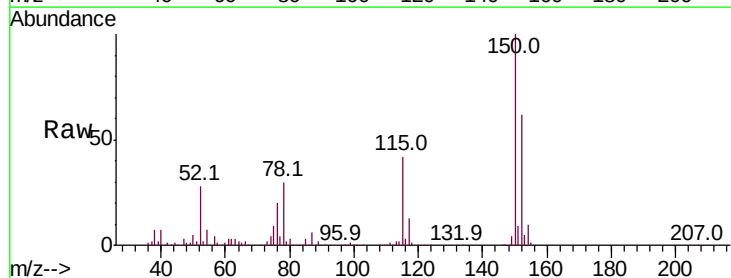
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#07

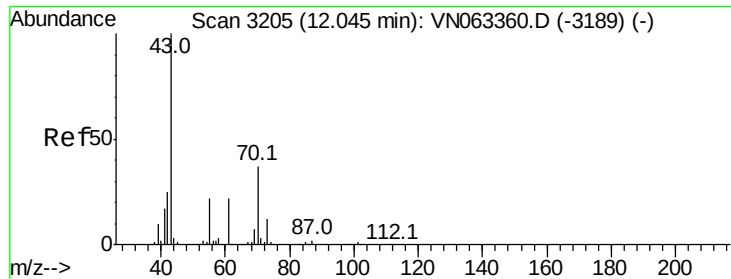
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.8	49.2	73.8
119	32.0	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN063374.D
Acq: 16 Sep 2020 19:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	66.1	32.2	96.6
150	161.3	0.0	343.4





#74

N-amvl acetate

Concen: 0.302 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#07

Tot Ion: 43 Resp: 2224

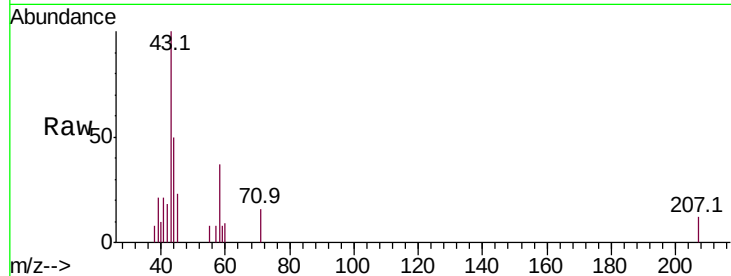
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 7.2 17.7 26.5#

61 0.0 17.4 26.2#

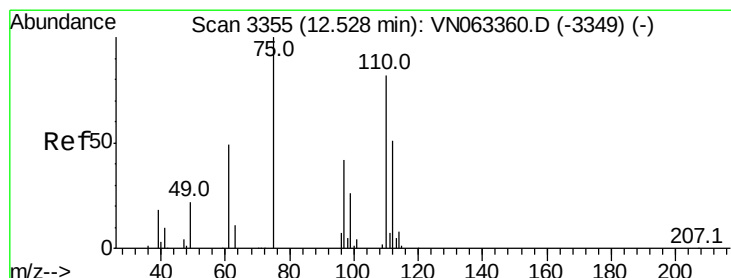
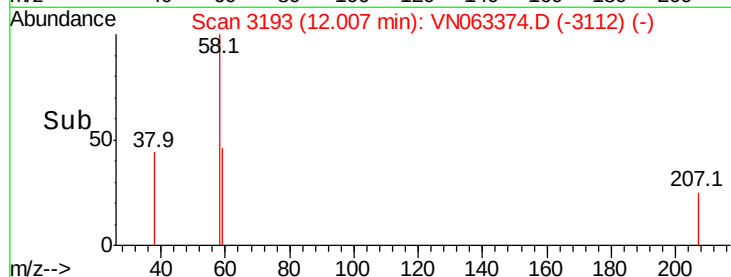
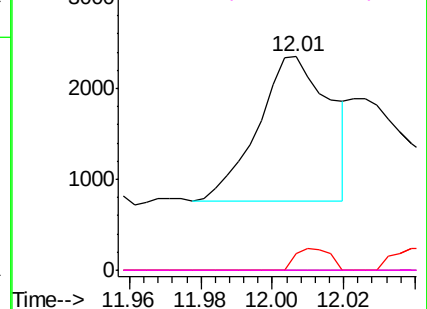


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.484 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063374.D

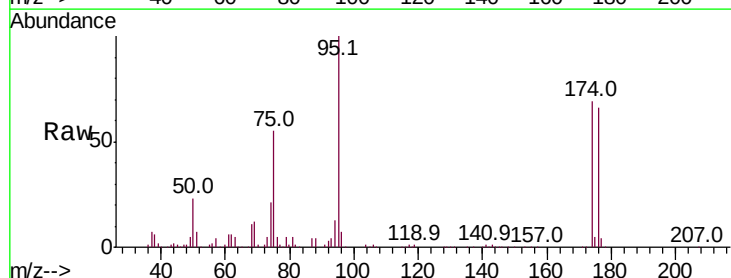
Acq: 16 Sep 2020 19:06

Tgt Ion: 75 Resp: 131938

Ion Ratio Lower Upper

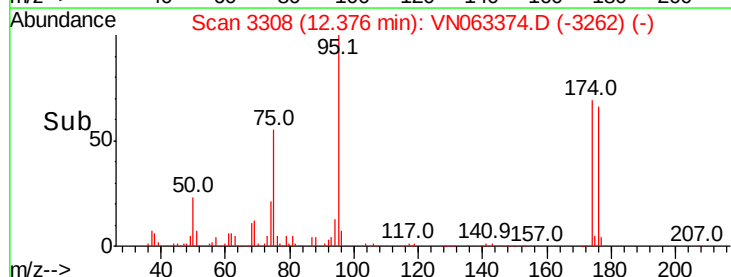
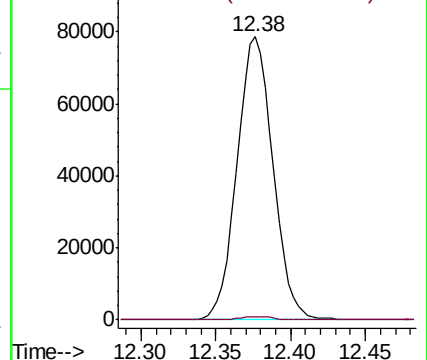
75 100

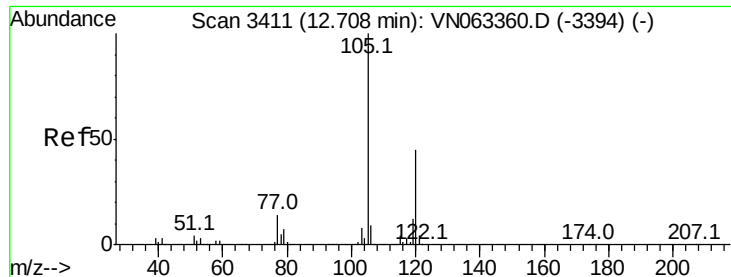
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.823 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

Instrument :

MSVOA_N

ClientSampleId :

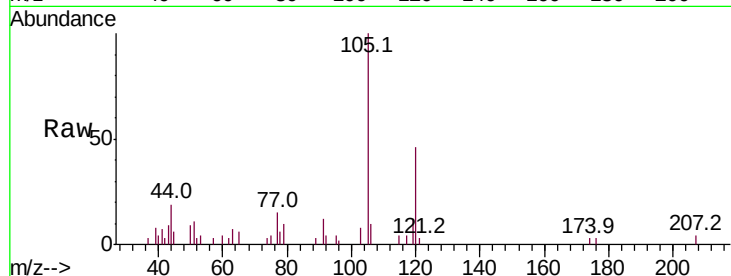
PB131646ZHE#07

Tot Ion:105 Resp: 10672

Ion Ratio Lower Upper

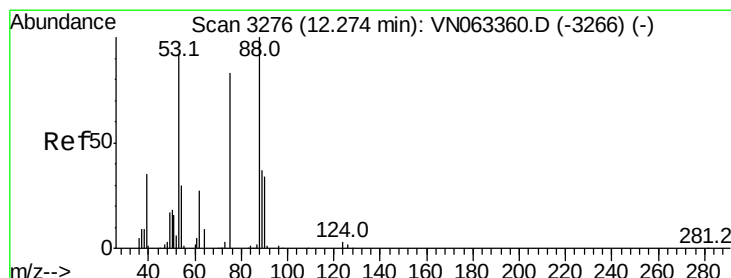
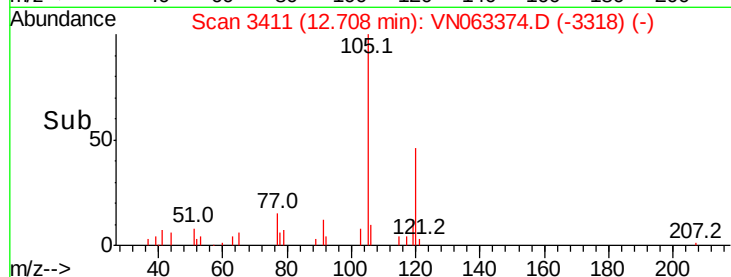
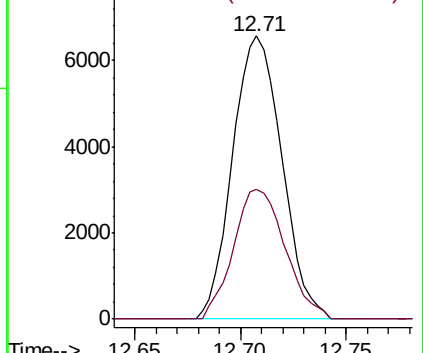
105 100

120 48.2 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: 75.352 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063374.D

Acq: 16 Sep 2020 19:06

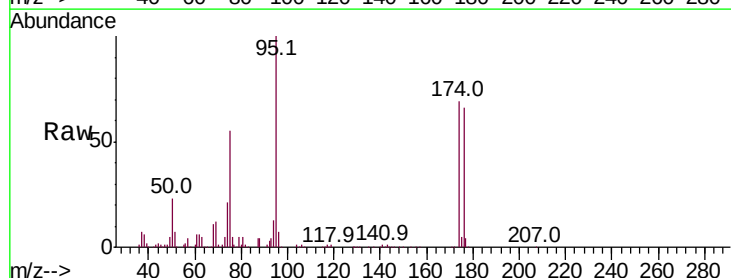
Tgt Ion: 75 Resp: 131938

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

