

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063378.D
 Acq On : 16 Sep 2020 20:42
 Operator : JC/MD
 Sample : PB131646ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#11

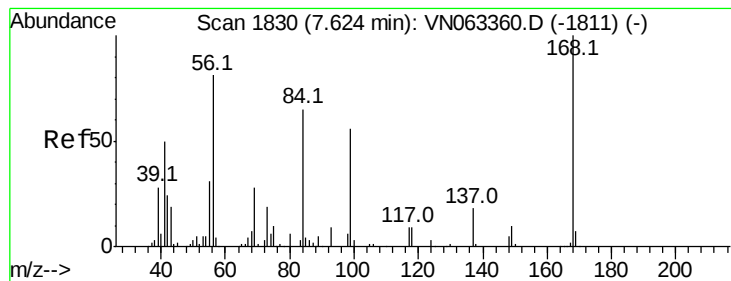
Quant Time: Sep 17 04:08:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	232557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	436011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	431979	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	181822	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	187040	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
35) Dibromofluoromethane	7.55	113	137877	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
50) Toluene-d8	10.06	98	564605	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.38	95	222409	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	325	0.593	ug/l #	73
16) Acetone	3.78	43	15072	11.847	ug/l	94
18) Methyl Acetate	4.29	43	4485	1.389	ug/l #	67
20) Methylene Chloride	4.50	84	15458	4.795	ug/l	85
25) 2-Butanone	6.79	43	2715	1.388	ug/l #	51
29) Tetrahydrofuran	7.16	42	602	0.450	ug/l #	72
31) Cyclohexane	7.62	56	6202	1.134	ug/l #	16
36) 1,1-Dichloropropene	7.63	75	22022	4.741	ug/l #	51
38) Carbon Tetrachloride	7.63	117	25479	5.373	ug/l #	16
43) Isopropyl Acetate	8.13	43	87507	10.735	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1883	0.521	ug/l #	43
48) Methyl methacrylate	9.15	41	4933	1.232	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	8631	1.891	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	36453	6.278	ug/l #	63
56) Ethyl methacrylate	10.51	69	1399	0.283	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6517	1.141	ug/l #	42
59) 2-Hexanone	10.74	43	98072	29.662	ug/l #	55
71) Bromoform	12.37	173	1021	0.408	ug/l #	1
74) N-amyl acetate	12.01	43	2922	0.424	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	127047	28.231	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	10222	0.841	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	127047	77.397	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: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

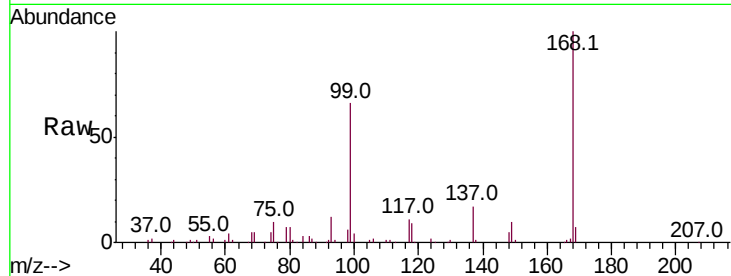
PB131646ZHE#11

Tot Ion:168 Resp: 232557

Ion Ratio Lower Upper

168 100

99 66.3 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

100000

80000

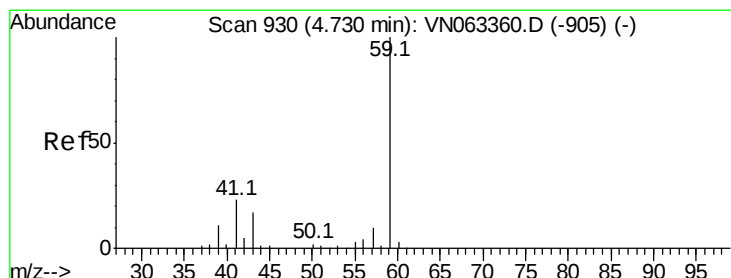
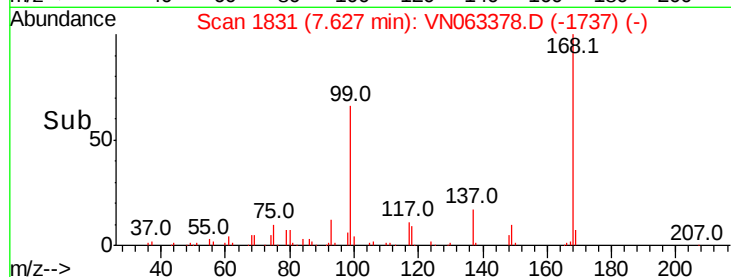
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.593 ug/l

RT: 4.70 min Scan# 921

Delta R.T. -0.03 min

Lab File: VN063378.D

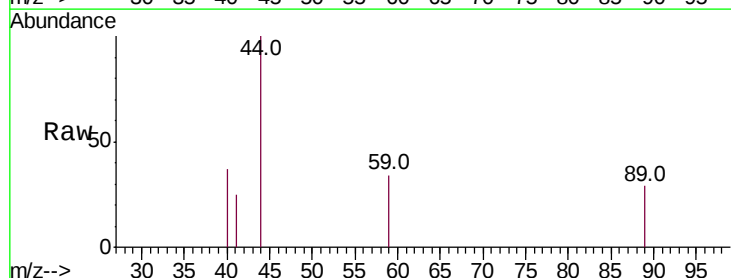
Acq: 16 Sep 2020 20:42

Tgt Ion: 59 Resp: 325

Ion Ratio Lower Upper

59 100

57 20.6 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063360.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063360.D (-905) (-)

4.70

300

250

200

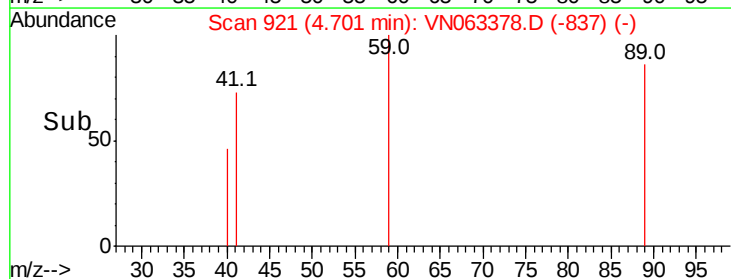
150

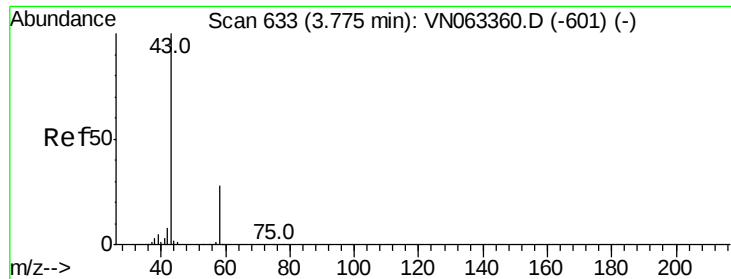
100

50

0

Time--> 4.68 4.70 4.72





#16

Acetone

Concen: 11.847 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

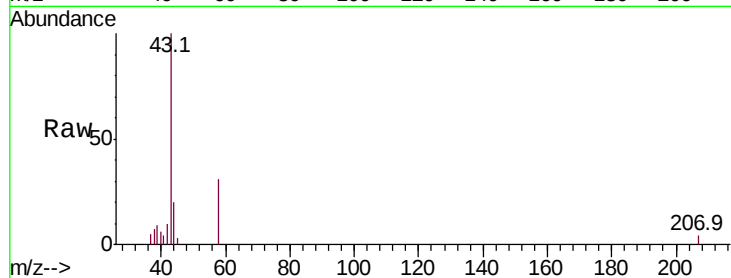
PB131646ZHE#11

Tot Ion: 43 Resp: 15072

Ion Ratio Lower Upper

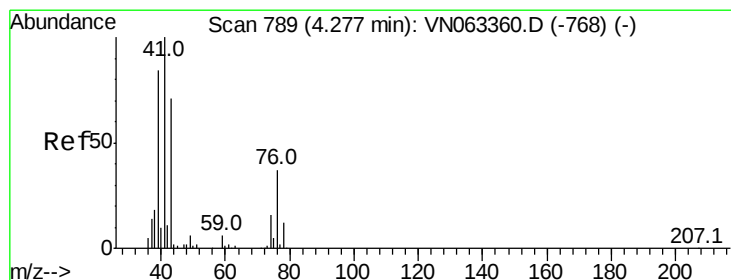
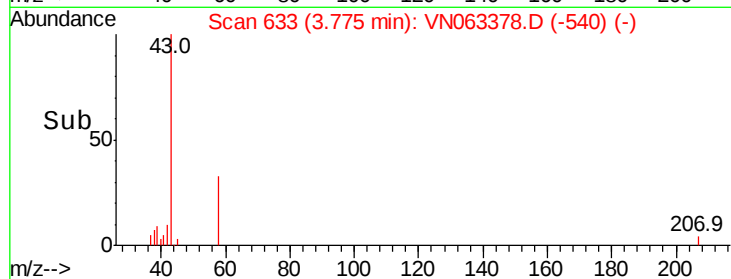
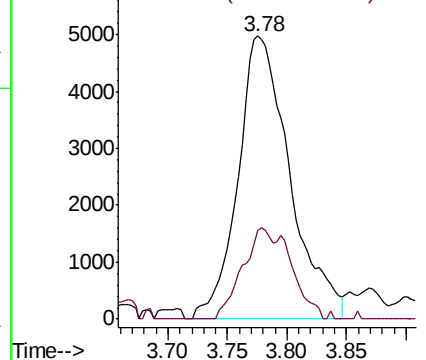
43 100

58 31.2 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.389 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN063378.D

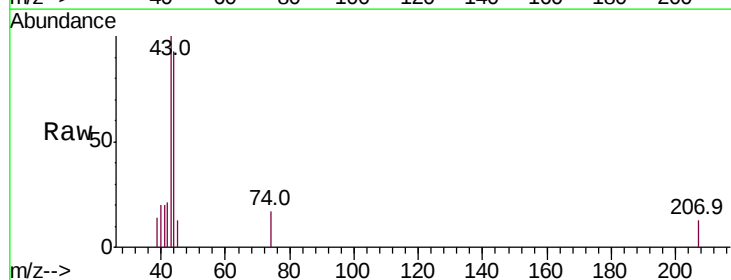
Acq: 16 Sep 2020 20:42

Tgt Ion: 43 Resp: 4485

Ion Ratio Lower Upper

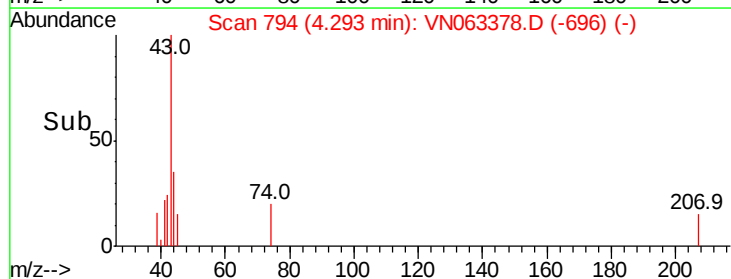
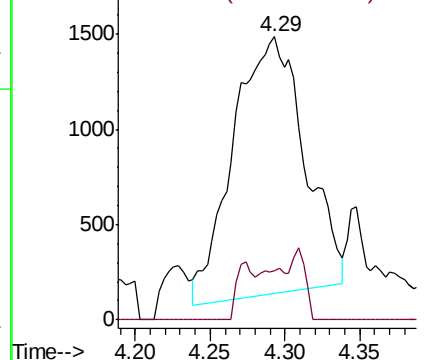
43 100

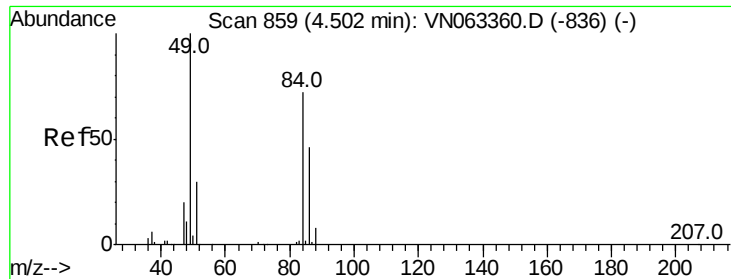
74 6.1 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

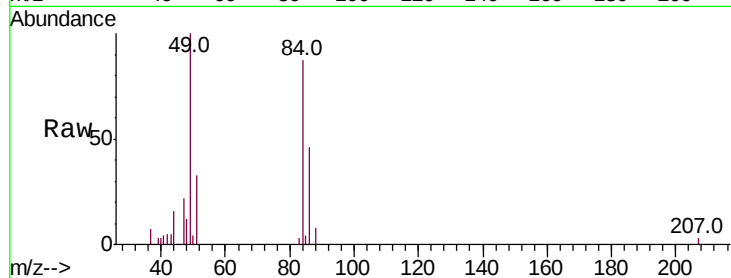




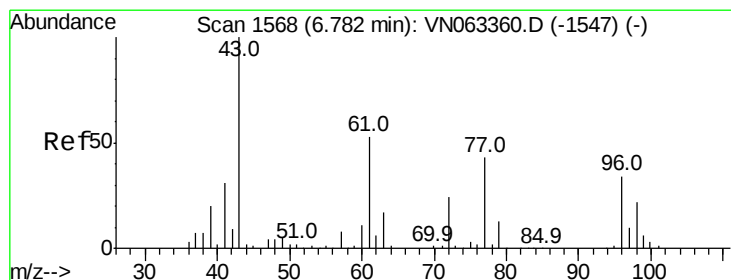
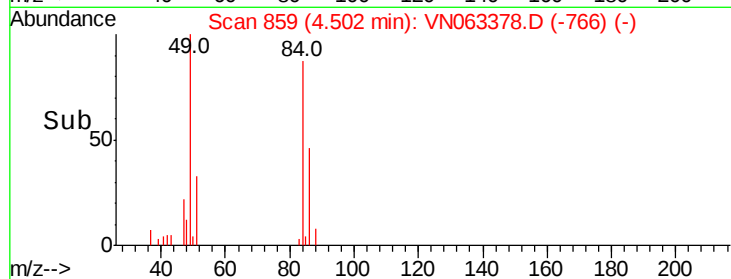
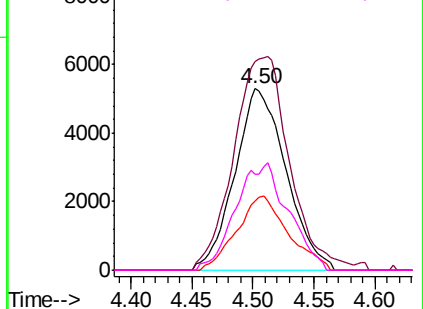
#20
Methvlene Chloride
Concen: 4.795 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063378.D
Acq: 16 Sep 2020 20:42

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#11

Tot Ion:	84	Resp:	15458
Ion	Ratio	Lower	Upper
84	100		
49	115.3	110.7	166.1
51	38.4	32.9	49.3
86	52.9	51.1	76.7

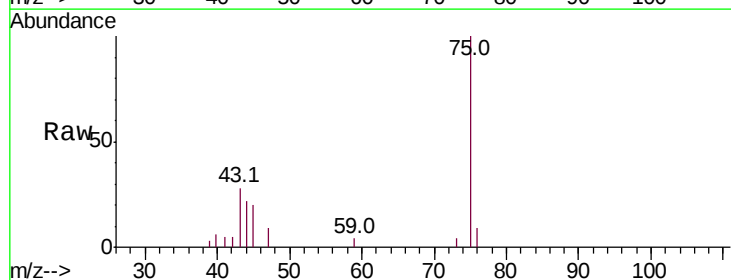


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

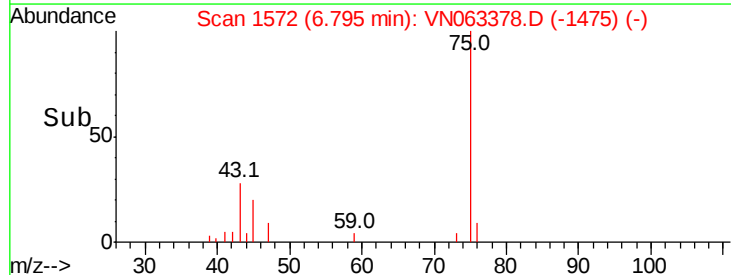
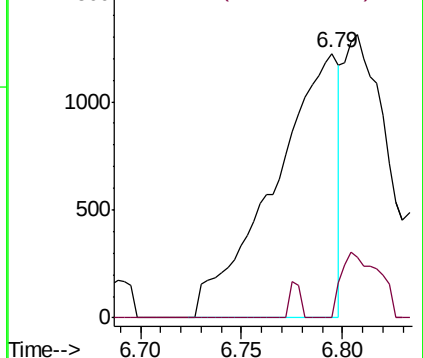


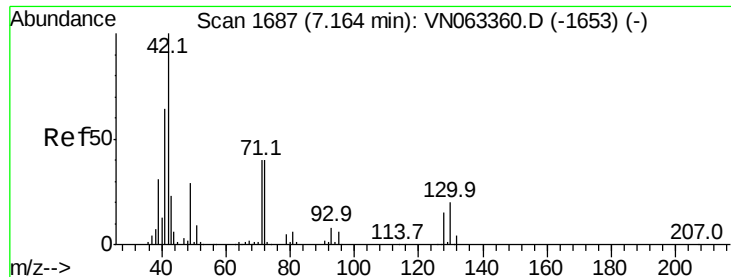
#25
2-Butanone
Concen: 1.388 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063378.D
Acq: 16 Sep 2020 20:42

Tgt Ion:	43	Resp:	2715
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: 0.450 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#11

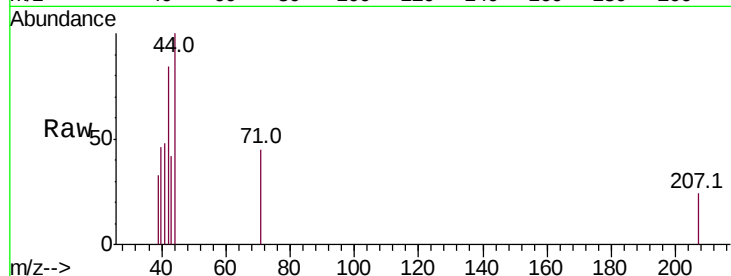
Tot Ion: 42 Resp: 602

Ion Ratio Lower Upper

42 100

72 11.6 32.1 48.1#

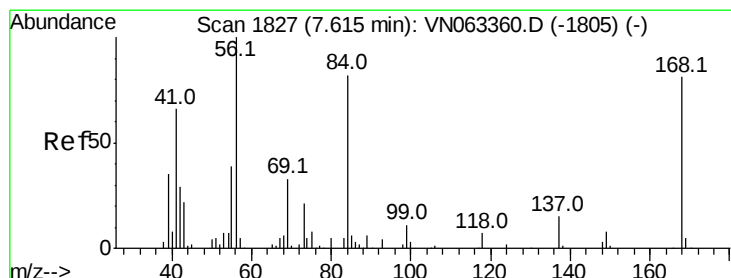
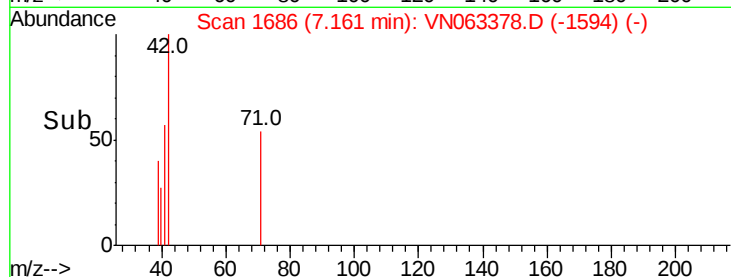
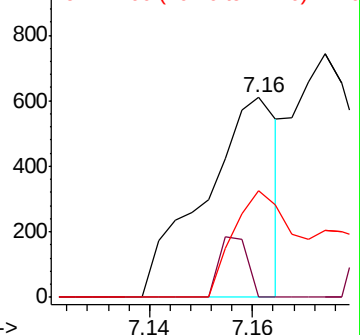
71 44.4 31.2 46.8



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.134 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

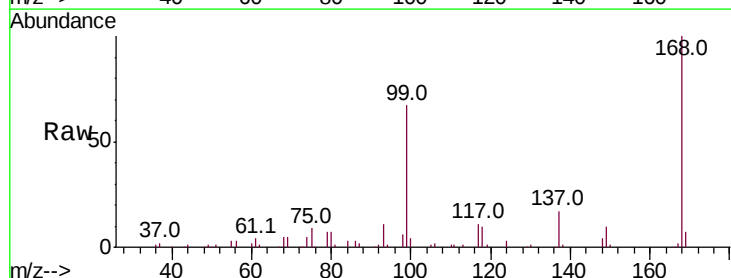
Tgt Ion: 56 Resp: 6202

Ion Ratio Lower Upper

56 100

69 166.8 26.1 39.1#

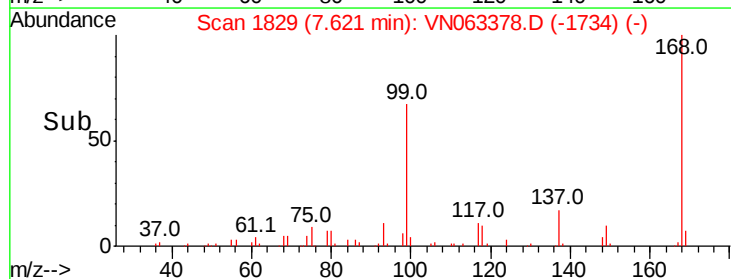
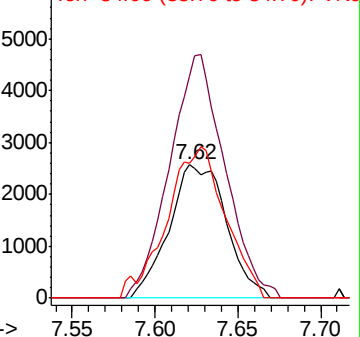
84 101.5 65.4 98.2#

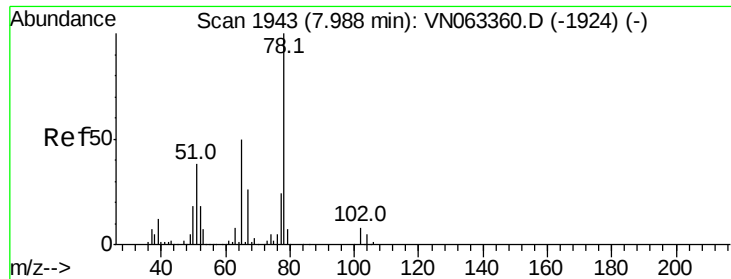


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 47.247 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

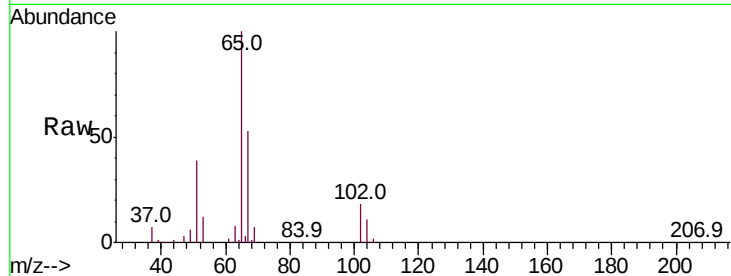
PB131646ZHE#11

Tot Ion: 65 Resp: 187040

Ion Ratio Lower Upper

65 100

67 52.7 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) (-)

7.99

80000

60000

40000

20000

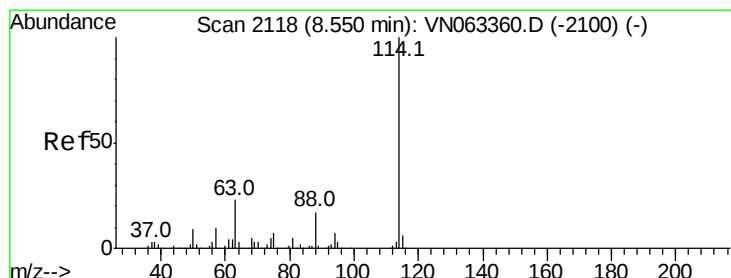
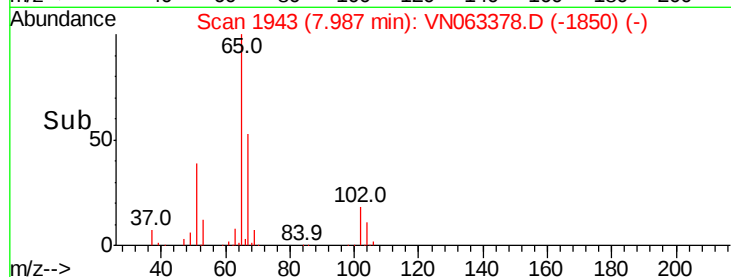
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Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

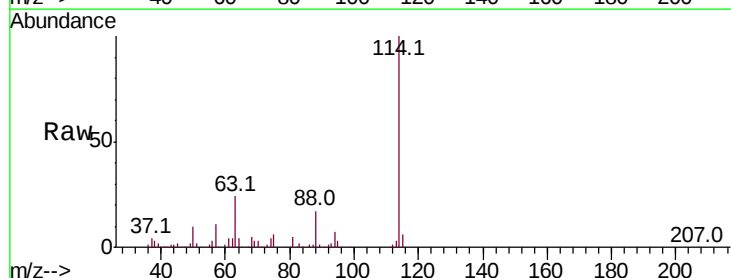
Tgt Ion: 114 Resp: 436011

Ion Ratio Lower Upper

114 100

63 24.3 0.0 46.4

88 17.0 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) (-)

8.55

250000

200000

150000

100000

50000

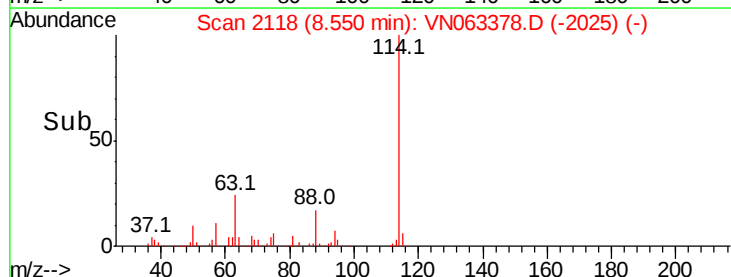
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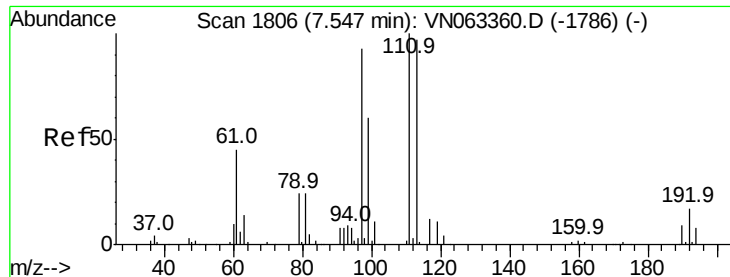
Time-->

8.50

8.60

8.70

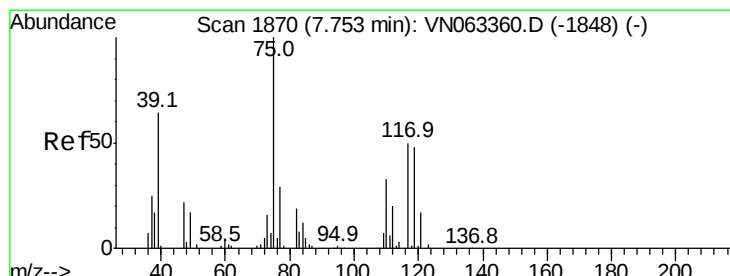
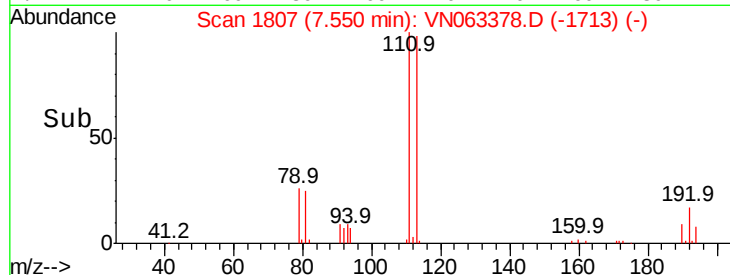
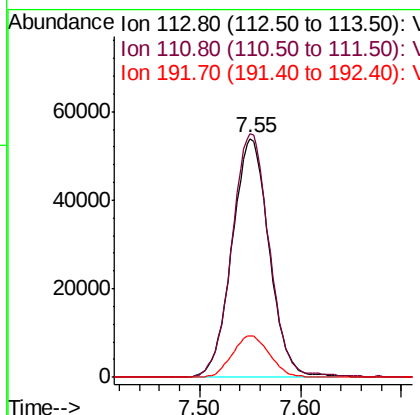
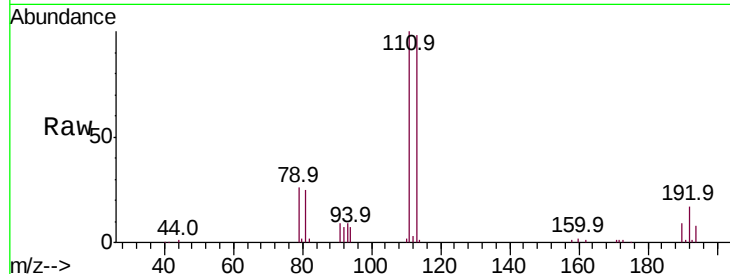




#35
 Dibromofluoromethane
 Concen: 45.679 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063378.D
 Acq: 16 Sep 2020 20:42

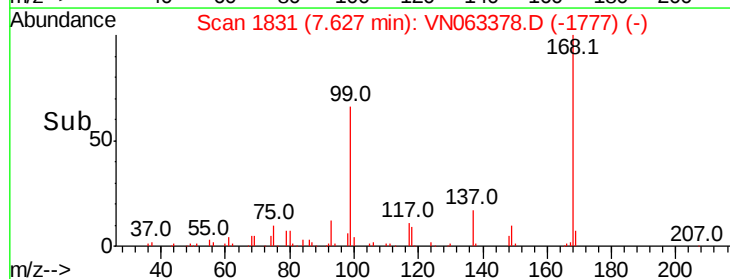
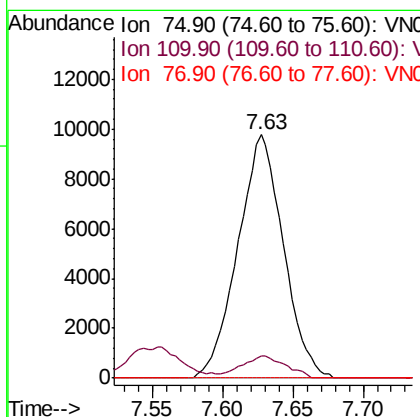
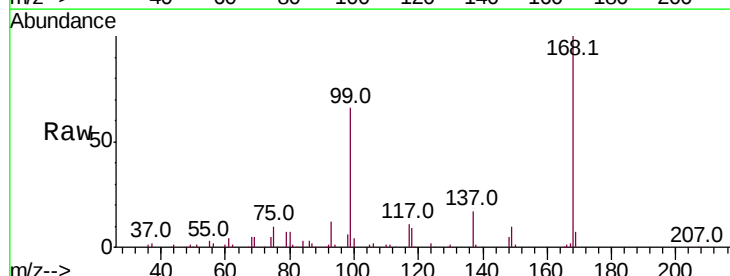
Instrument :
 MSVOA_N
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 PB131646ZHE#11

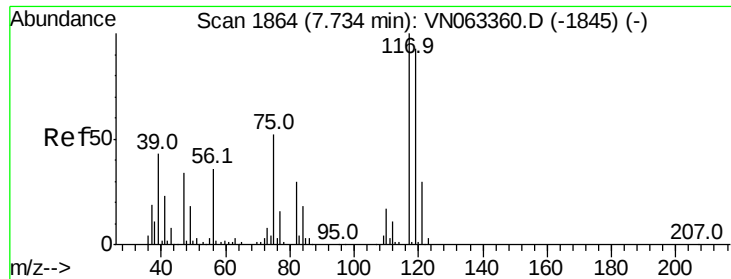
Tot Ion:113 Resp: 137877
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.9 124.3
 192 17.5 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.741 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063378.D
 Acq: 16 Sep 2020 20:42

Tgt Ion: 75 Resp: 22022
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.5 49.5#
 77 0.0 24.6 36.8#

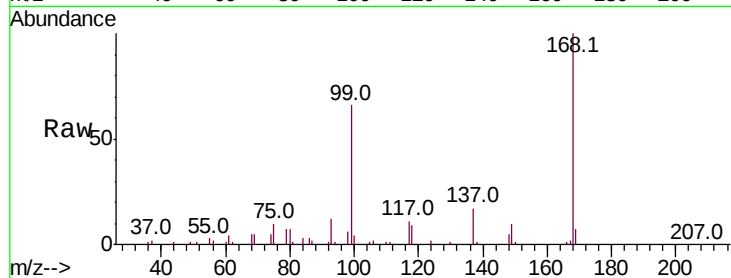




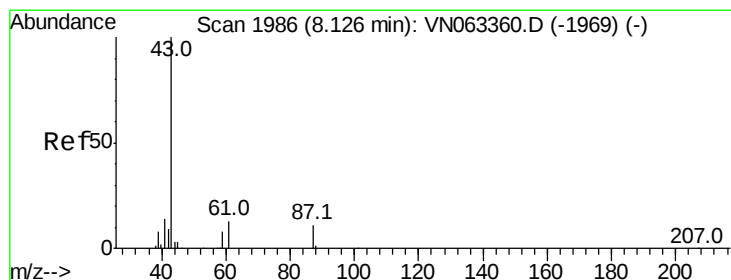
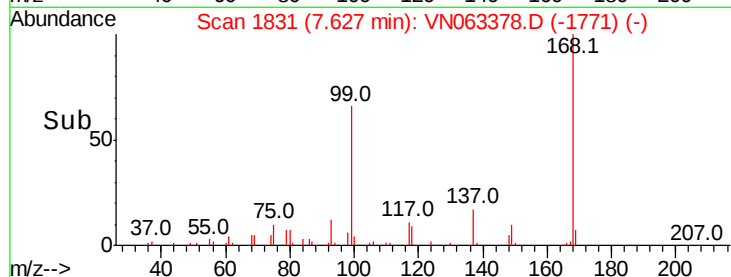
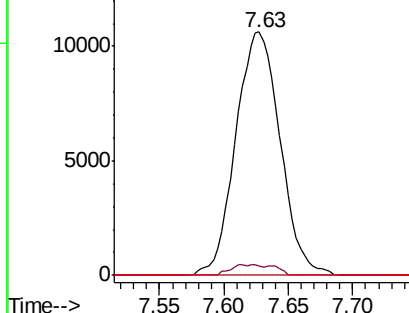
#38
Carbon Tetrachloride
Concen: 5.373 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063378.D
Acq: 16 Sep 2020 20:42

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#11

Tot Ion:117 Resp: 25479
Ion Ratio Lower Upper
117 100
119 3.8 74.5 111.7#
121 0.0 24.1 36.1#

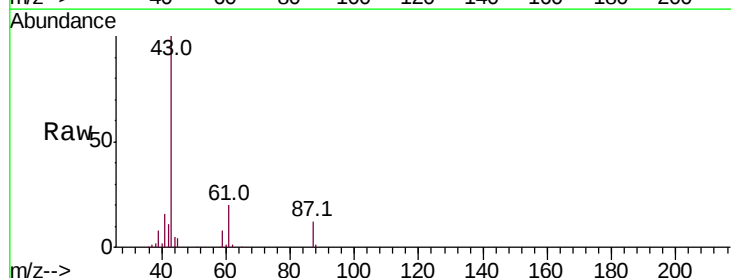


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

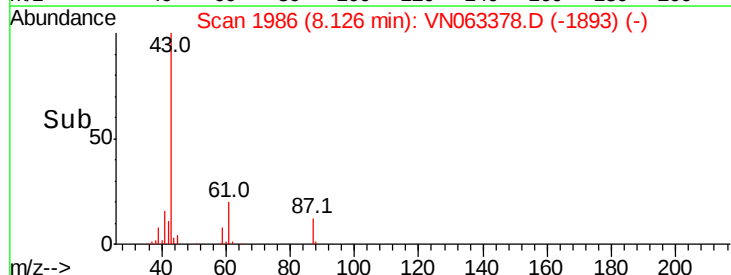
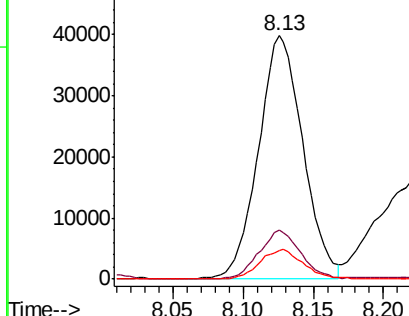


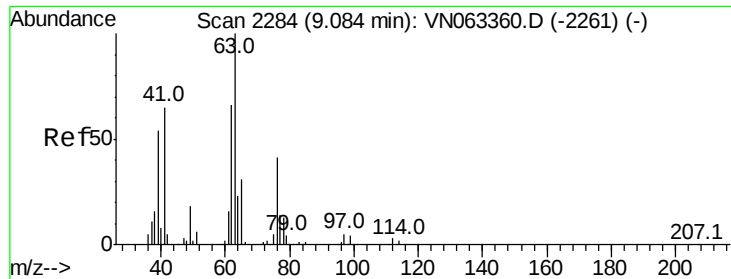
#43
Isopropyl Acetate
Concen: 10.735 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN063378.D
Acq: 16 Sep 2020 20:42

Tgt Ion: 43 Resp: 87507
Ion Ratio Lower Upper
43 100
61 18.7 14.2 21.2
87 11.7 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: 0.521 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

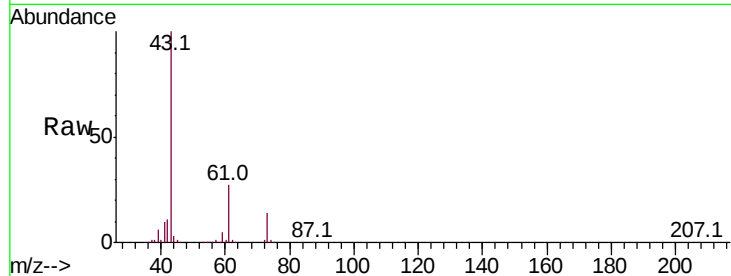
PB131646ZHE#11

Tot Ion: 63 Resp: 1883

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

9.23

1200

1000

800

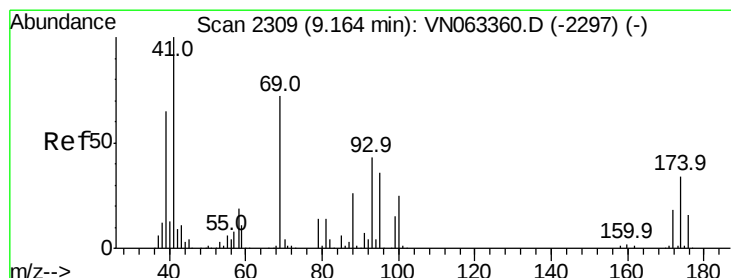
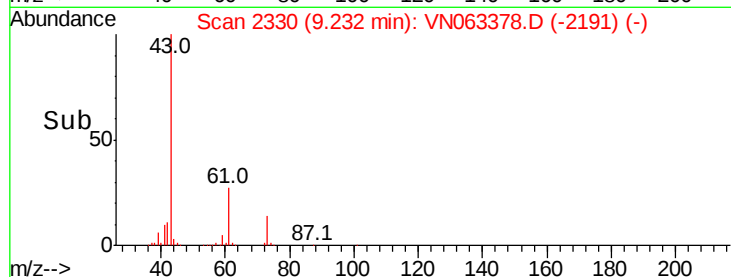
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.232 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

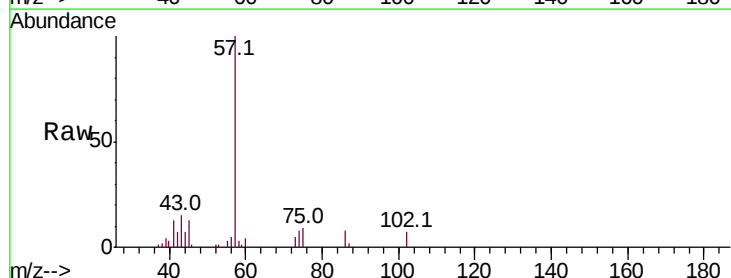
Tgt Ion: 41 Resp: 4933

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

40000

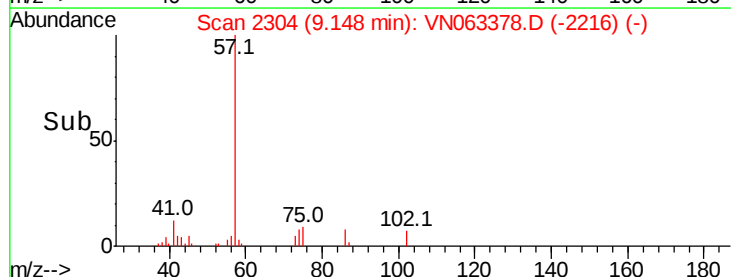
30000

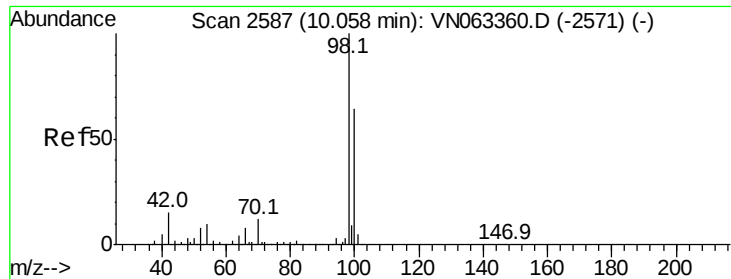
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 49.746 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

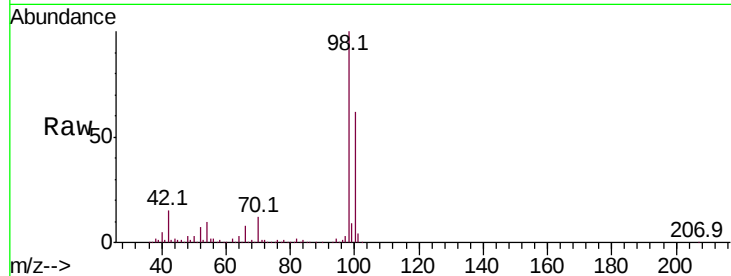
PB131646ZHE#11

Tot Ion: 98 Resp: 564605

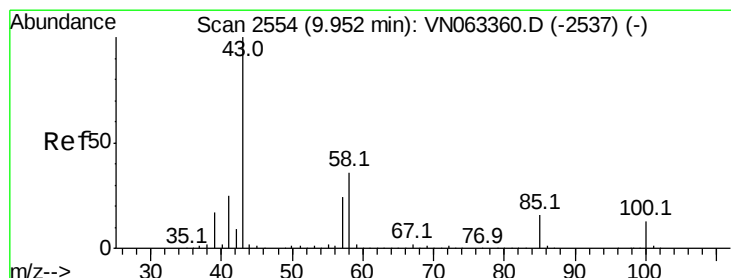
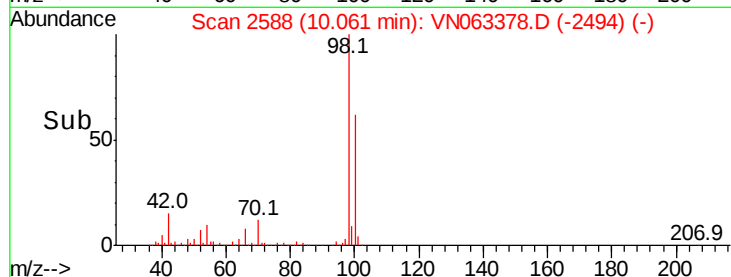
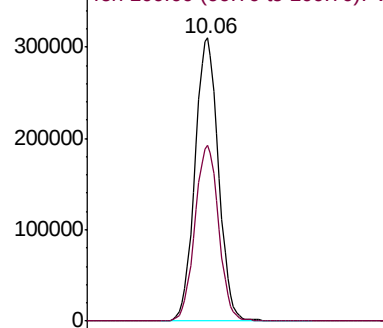
Ion Ratio Lower Upper

98 100

100 62.6 50.7 76.1



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



#51

4-Methyl-2-Pentanone

Concen: 1.891 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063378.D

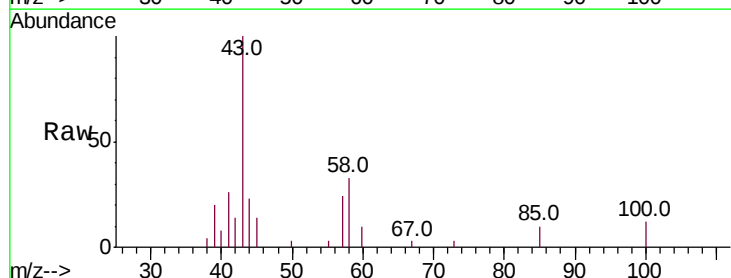
Acq: 16 Sep 2020 20:42

Tgt Ion: 43 Resp: 8631

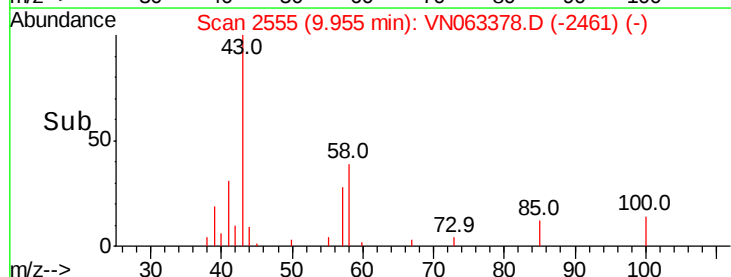
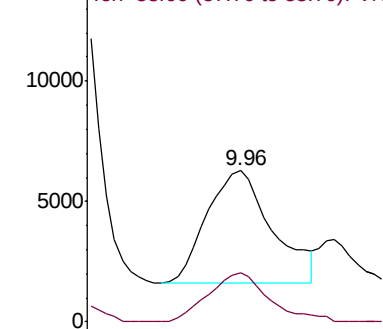
Ion Ratio Lower Upper

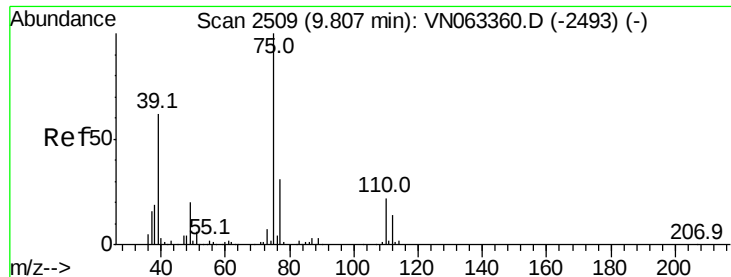
43 100

58 41.1 29.0 43.6



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





#54

cis-1,3-Dichloropropene

Concen: 6.278 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#11

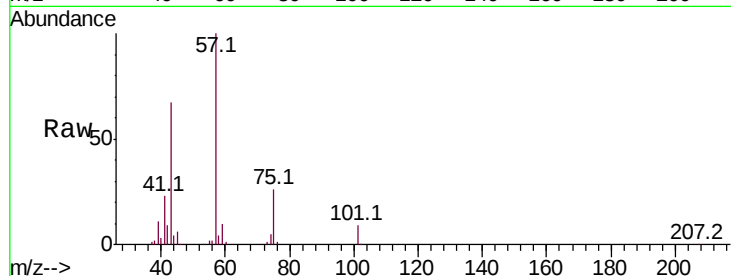
Tot Ion: 75 Resp: 36453

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

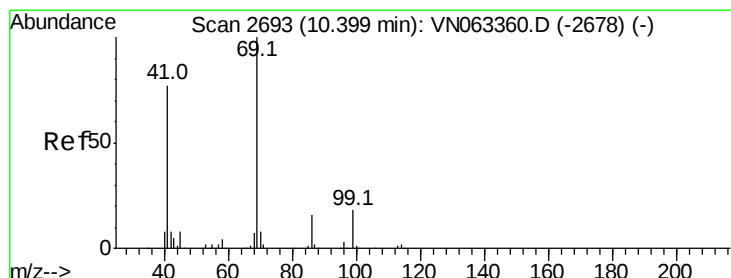
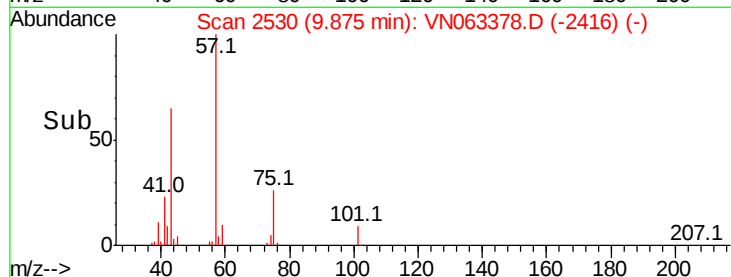
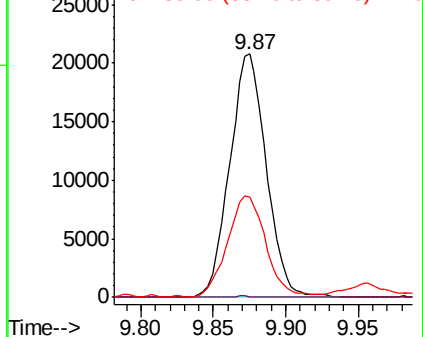
39 41.0 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 76.90 (76.60 to 77.60): VNC

Ion 39.00 (38.70 to 39.70): VNC



#56

Ethyl methacrylate

Concen: 0.283 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

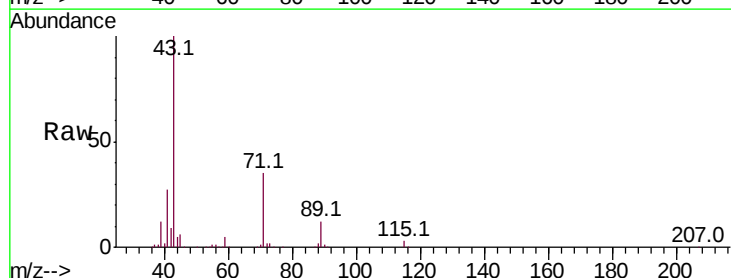
Tgt Ion: 69 Resp: 1399

Ion Ratio Lower Upper

69 100

41 6974.1 61.0 91.6#

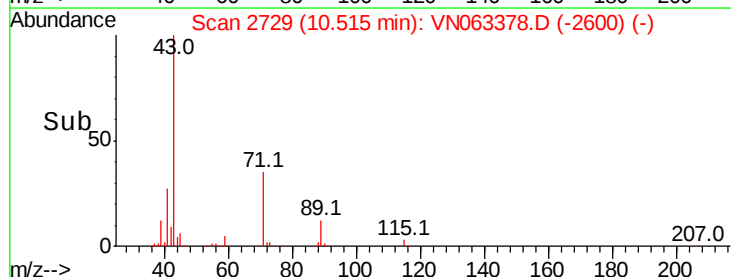
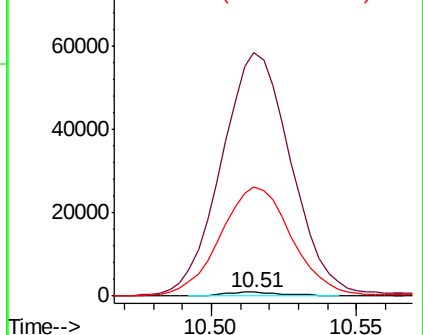
39 3250.3 39.2 58.8#

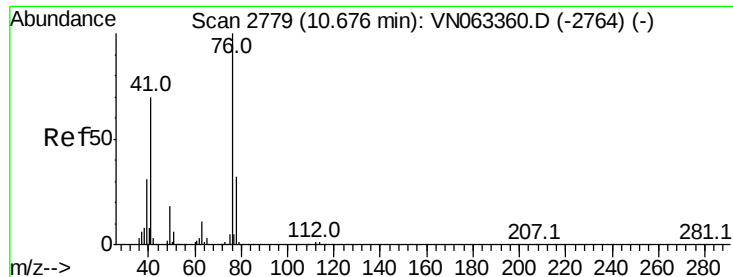


Abundance Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

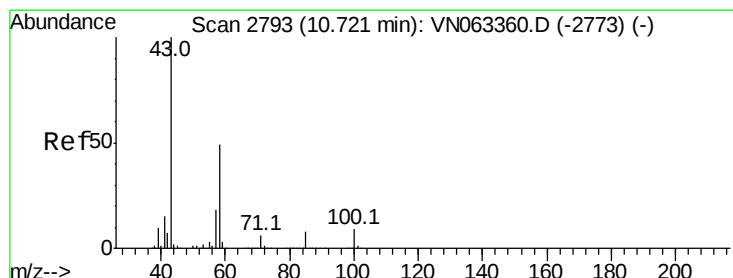
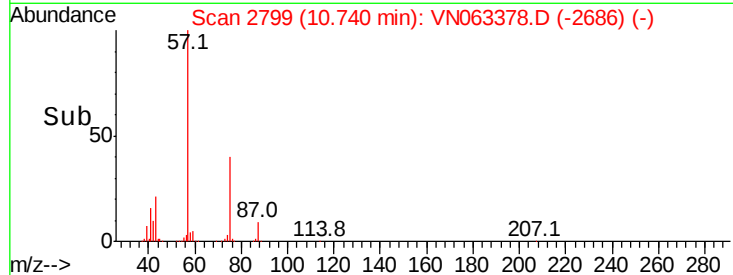
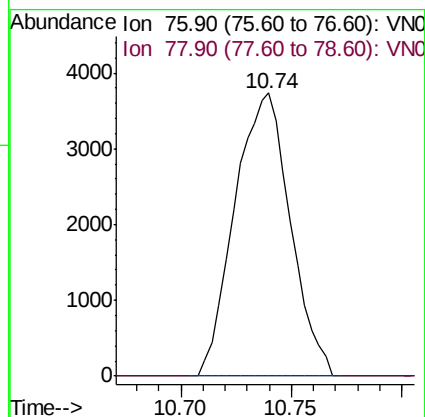
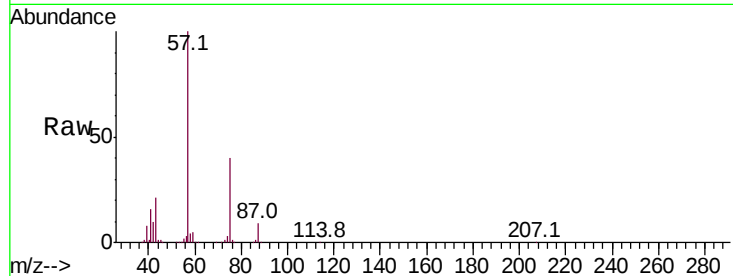




#57
 1,3-Dichloropropane
 Concen: 1.141 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN063378.D
 Acq: 16 Sep 2020 20:42

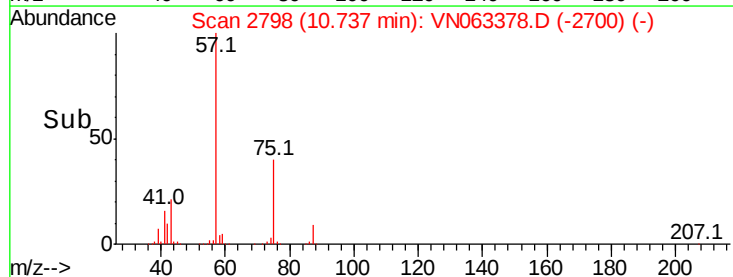
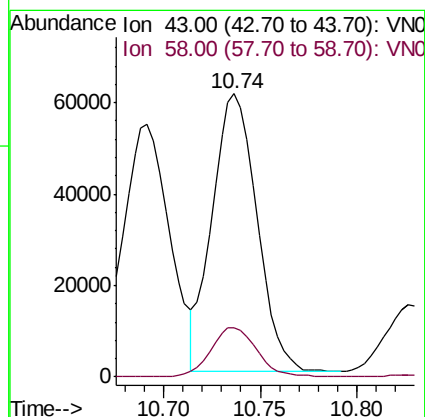
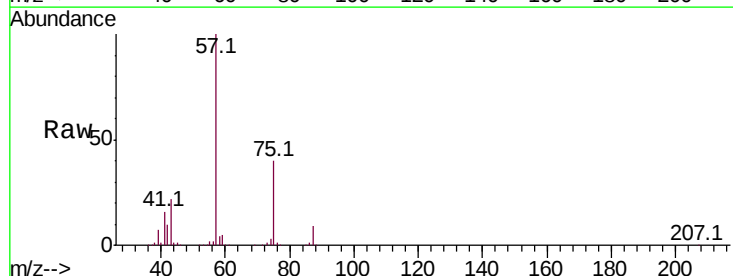
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#11

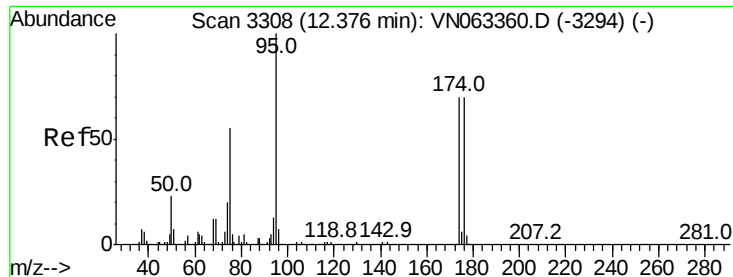
Tot Ion: 76 Resp: 6517
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 29.662 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063378.D
 Acq: 16 Sep 2020 20:42

Tgt Ion: 43 Resp: 98072
 Ion Ratio Lower Upper
 43 100
 58 18.3 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 53.456 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#11

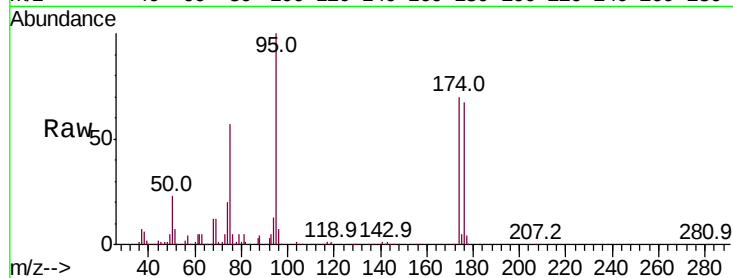
Tot Ion: 95 Resp: 222409

Ion Ratio Lower Upper

95 100

174 71.2 0.0 140.8

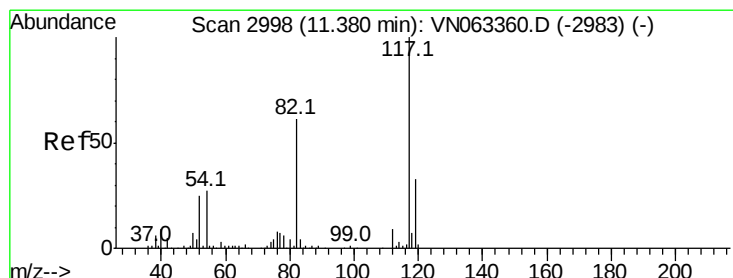
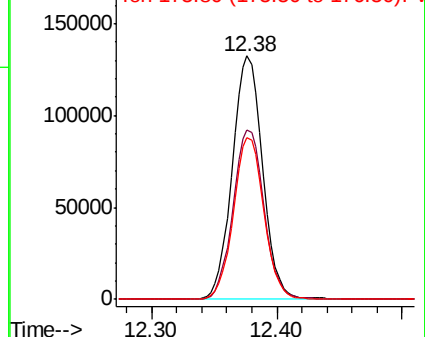
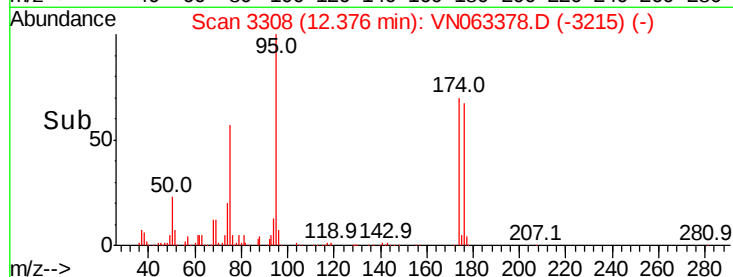
176 66.9 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063378.D (-3215) (-)

Ion 173.80 (173.50 to 174.50): VN063378.D (-3215) (-)

Ion 175.80 (175.50 to 176.50): VN063378.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

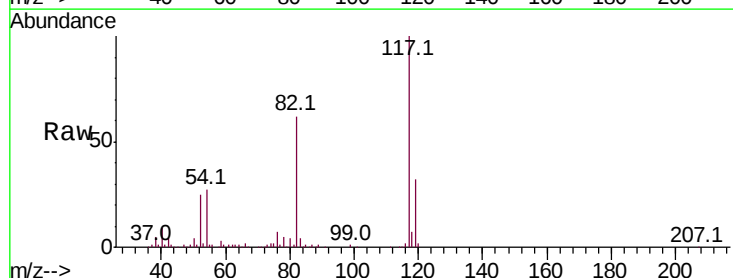
Tgt Ion: 117 Resp: 431979

Ion Ratio Lower Upper

117 100

82 61.6 49.2 73.8

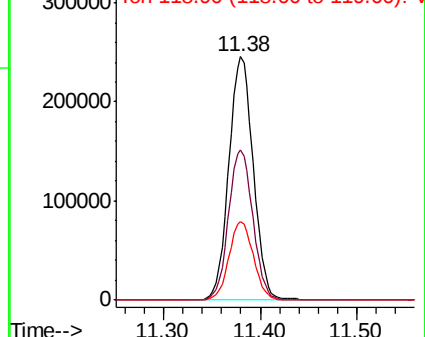
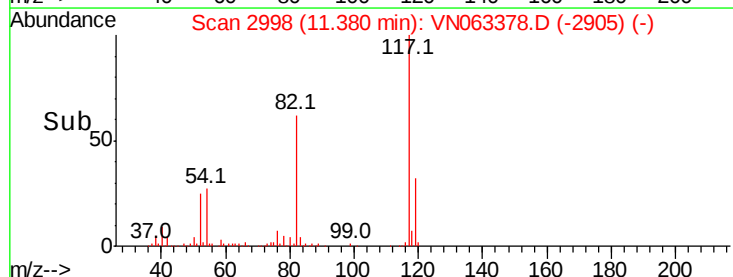
119 32.2 26.2 39.4

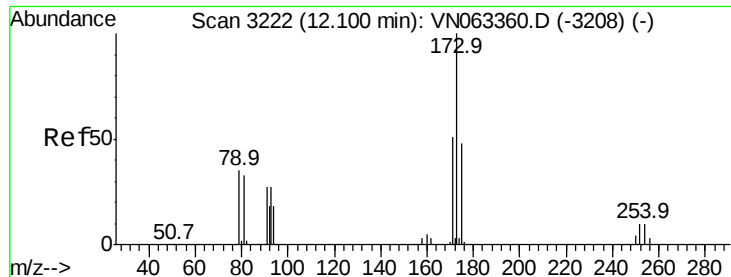


Abundance Ion 116.90 (116.60 to 117.60): VN063378.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063378.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063378.D (-2905) (-)





#71

Bromoform

Concen: 0.408 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#11

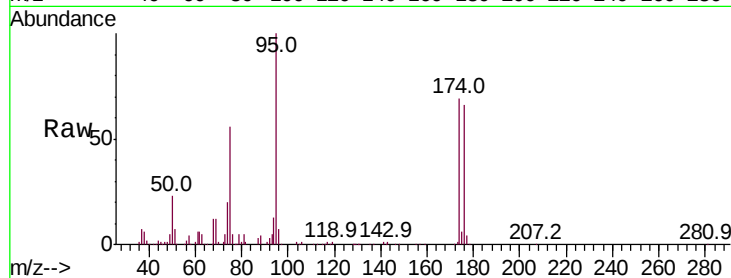
Tot Ion:173 Resp: 1021

Ion Ratio Lower Upper

173 100

175 967.4 24.0 72.0#

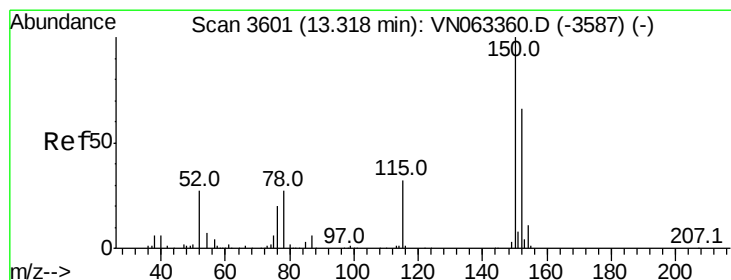
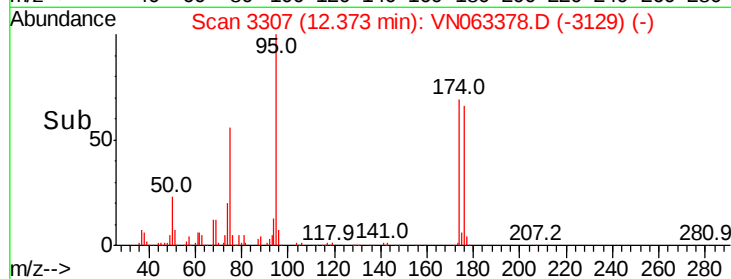
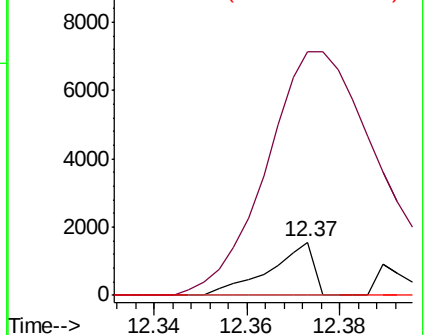
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

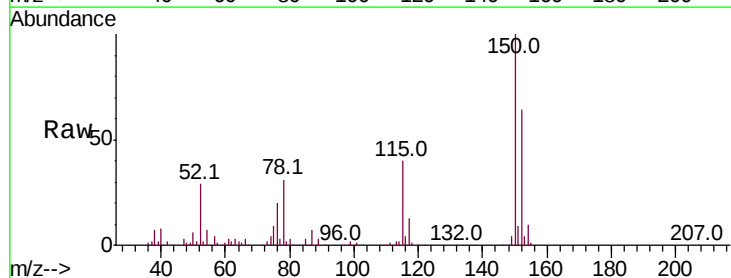
Tgt Ion:152 Resp: 181822

Ion Ratio Lower Upper

152 100

115 62.1 32.2 96.6

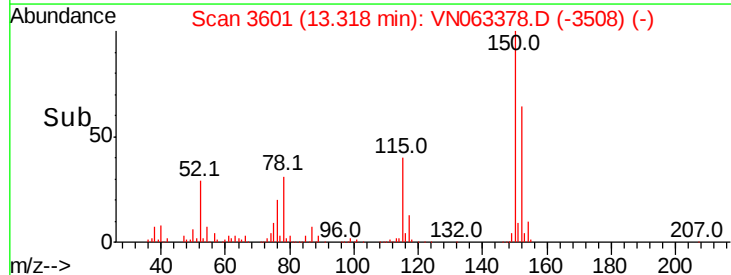
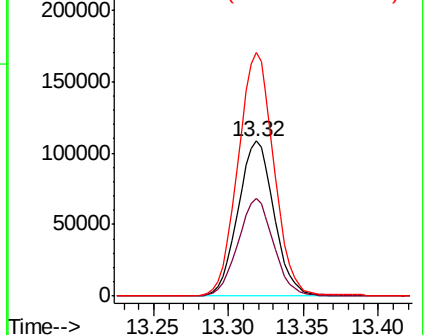
150 155.9 0.0 343.4

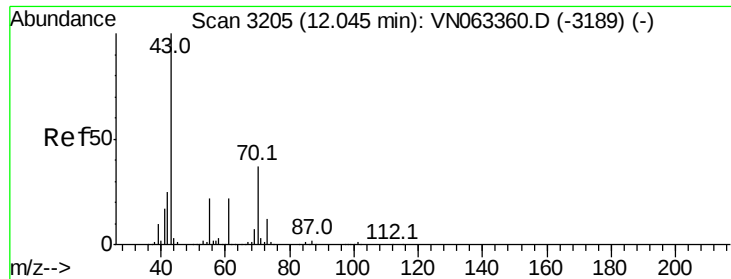


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.424 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063378.D

Acq: 16 Sep 2020 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#11

Tot Ion: 43 Resp: 2922

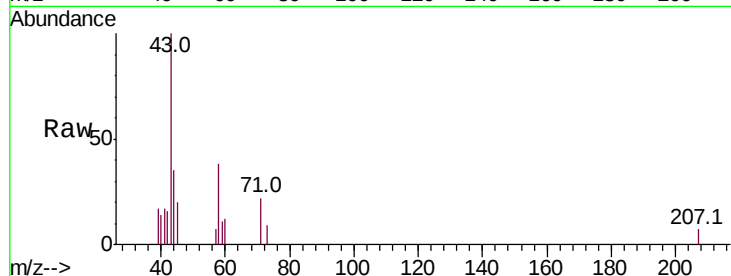
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 10.1 17.7 26.5#

61 0.0 17.4 26.2#

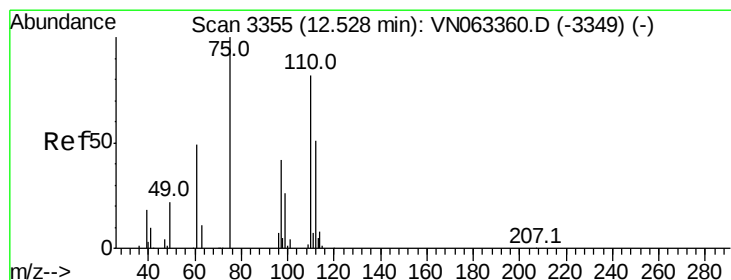
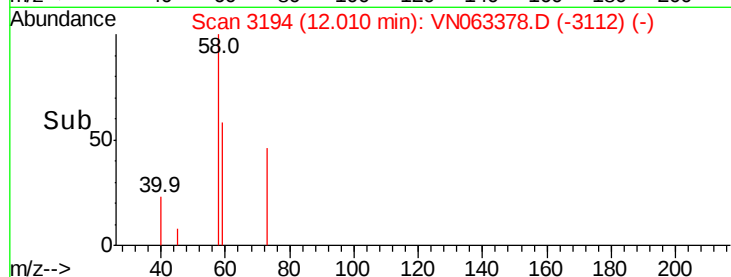
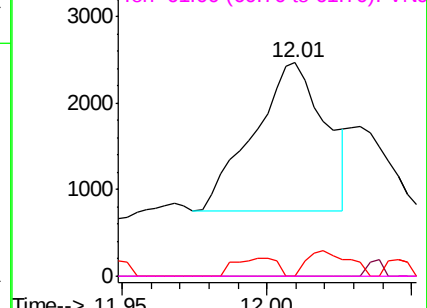


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.231 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063378.D

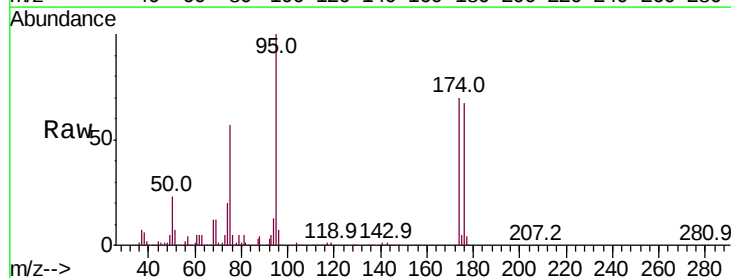
Acq: 16 Sep 2020 20:42

Tgt Ion: 75 Resp: 127047

Ion Ratio Lower Upper

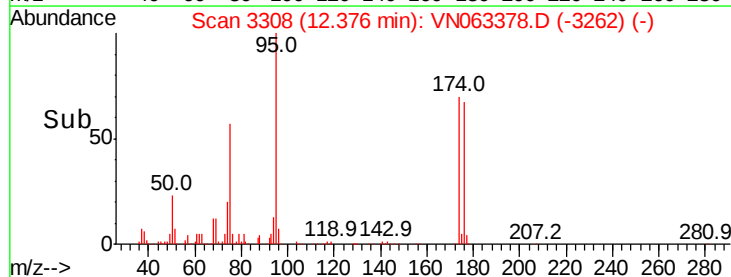
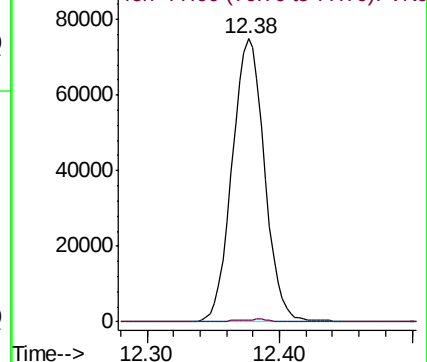
75 100

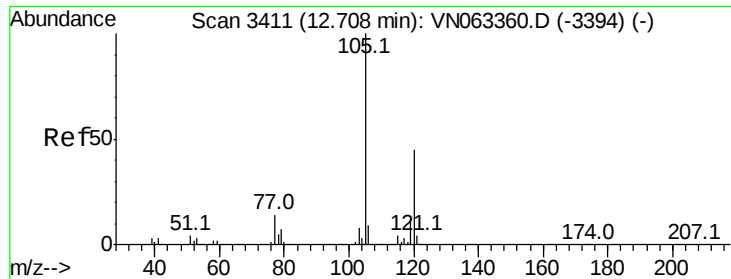
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

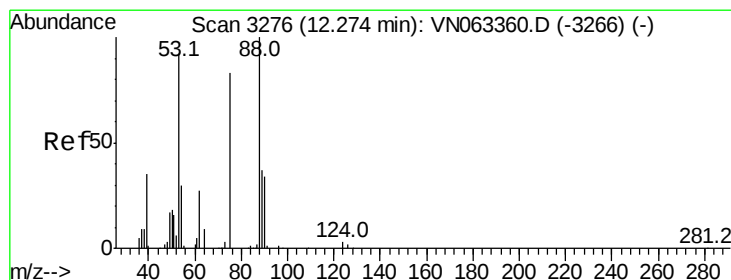
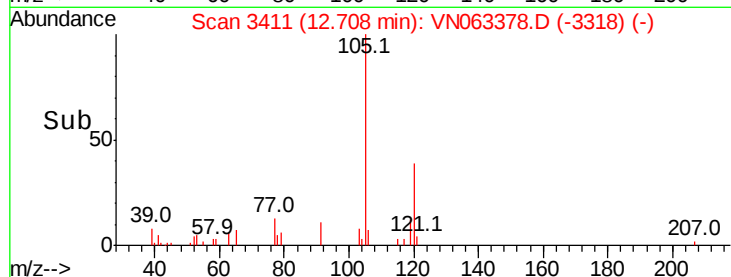
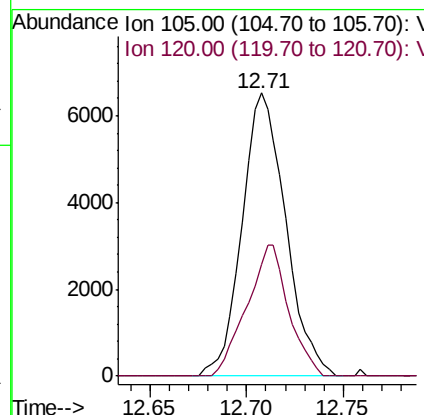
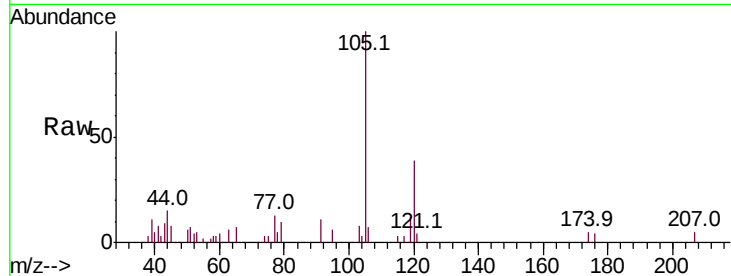




#80
 1,3,5-Trimethylbenzene
 Concen: 0.841 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063378.D
 Acq: 16 Sep 2020 20:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#11

Tot Ion:105 Resp: 10222
 Ion Ratio Lower Upper
 105 100
 120 44.3 22.9 68.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.397 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN063378.D
 Acq: 16 Sep 2020 20:42

Tgt Ion: 75 Resp: 127047
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.7 128.5#
 89 0.0 38.0 57.0#

