

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063654.D
 Acq On : 25 Sep 2020 2:37
 Operator : JC/MD
 Sample : PB131850ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131850ZHE#16

Quant Time: Sep 25 05:37:22 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	203237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	396328	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	413487	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	173114	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	176457	51.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.00%	
35) Dibromofluoromethane	7.55	113	129498	47.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.40%	
50) Toluene-d8	10.06	98	507177	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
62) 4-Bromofluorobenzene	12.38	95	199494	52.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.50%	

Target Compounds

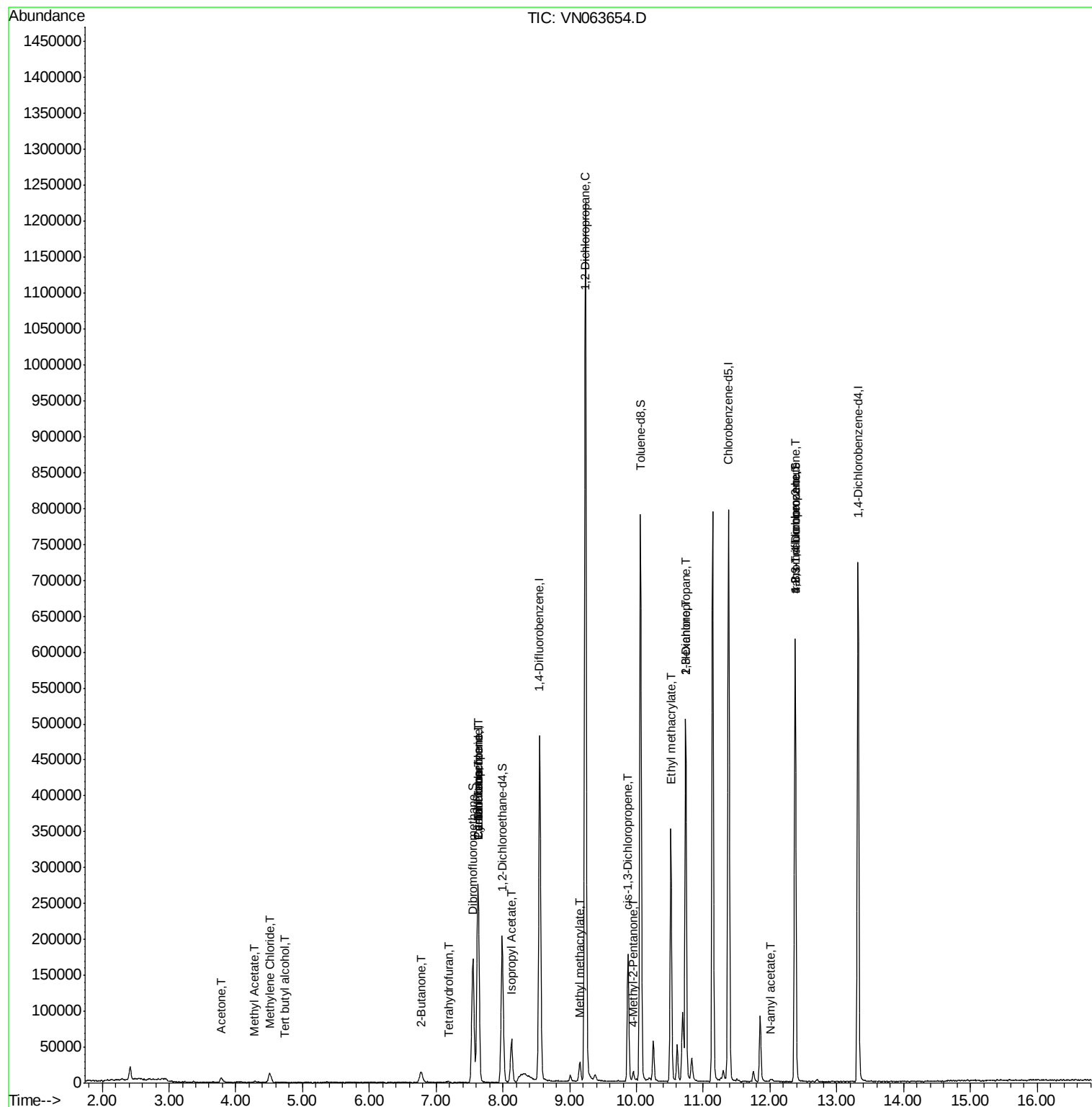
						Qvalue
11) Tert butyl alcohol	4.74	59	230	0.480	ug/l #	72
16) Acetone	3.78	43	11553	10.391	ug/l	94
18) Methyl Acetate	4.28	43	4276	1.515	ug/l #	64
20) Methylene Chloride	4.51	84	9167	3.254	ug/l	90
25) 2-Butanone	6.78	43	1884	1.102	ug/l #	51
29) Tetrahydrofuran	7.18	42	908	0.777	ug/l #	49
31) Cyclohexane	7.63	56	5997	1.255	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	19679	4.661	ug/l #	44
38) Carbon Tetrachloride	7.63	117	22835	5.298	ug/l #	18
43) Isopropyl Acetate	8.13	43	72014	9.719	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1581	0.482	ug/l #	43
48) Methyl methacrylate	9.15	41	4642	1.275	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	6555	1.580	ug/l #	78
54) cis-1,3-Dichloropropene	9.87	75	28658	5.429	ug/l #	67
56) Ethyl methacrylate	10.51	69	1521	0.338	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5024	0.968	ug/l #	42
59) 2-Hexanone	10.74	43	77227	25.696	ug/l #	54
74) N-amyl acetate	12.01	43	3356	0.511	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	113371	26.459	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113371	72.540	ug/l #	7

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

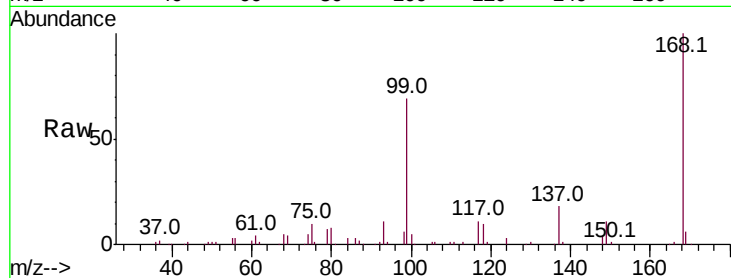
PB131850ZHE#16

Tot Ion:168 Resp: 203237

Ion Ratio Lower Upper

168 100

99 69.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

80000

60000

40000

20000

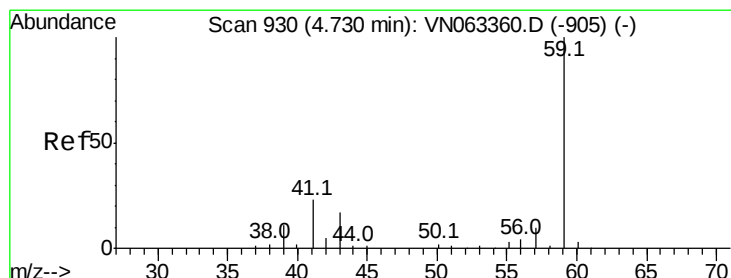
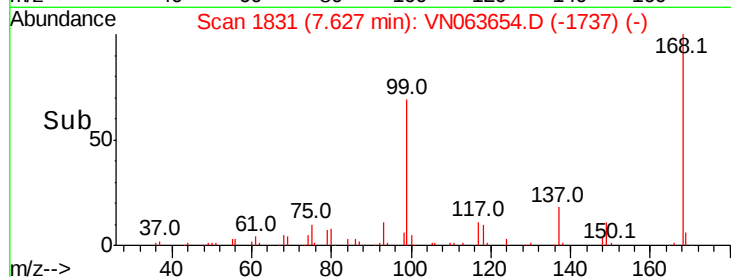
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.480 ug/l

RT: 4.74 min Scan# 933

Delta R.T. 0.01 min

Lab File: VN063654.D

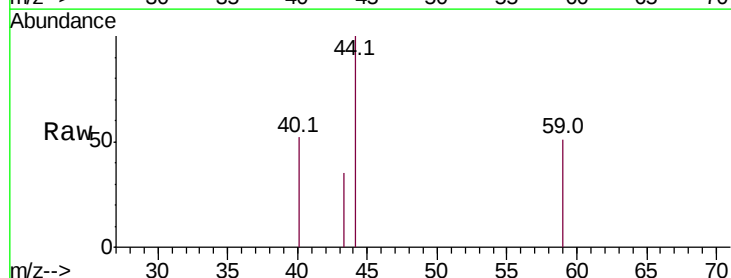
Acq: 25 Sep 2020 2:37

Tgt Ion: 59 Resp: 230

Ion Ratio Lower Upper

59 100

57 0.0 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) (-)

4.74

250

200

150

100

50

0

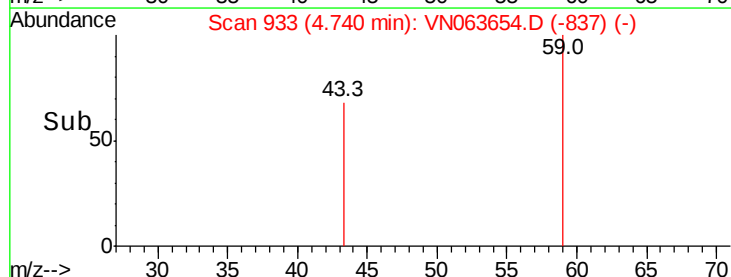
Time-->

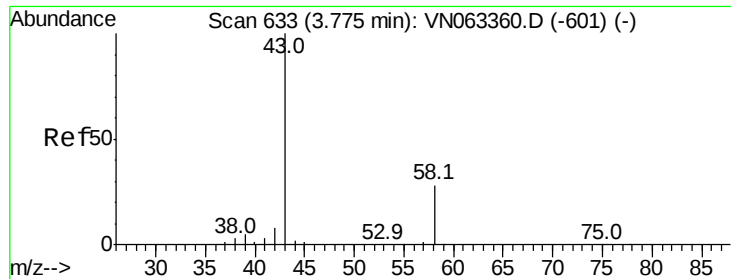
4.72

4.73

4.74

4.75





#16

Acetone

Concen: 10.391 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

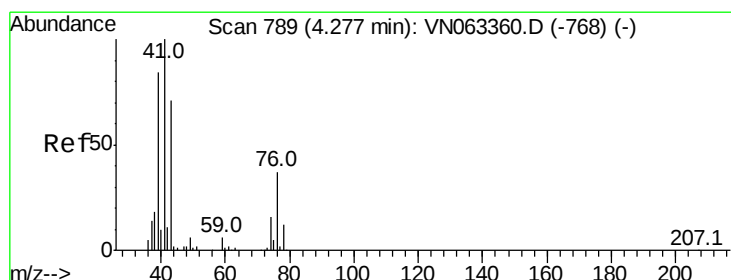
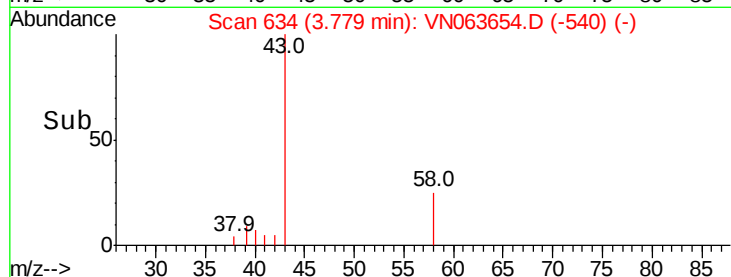
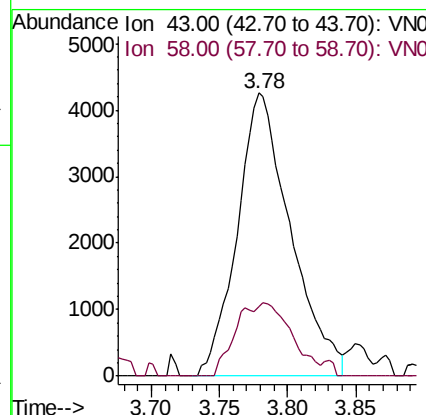
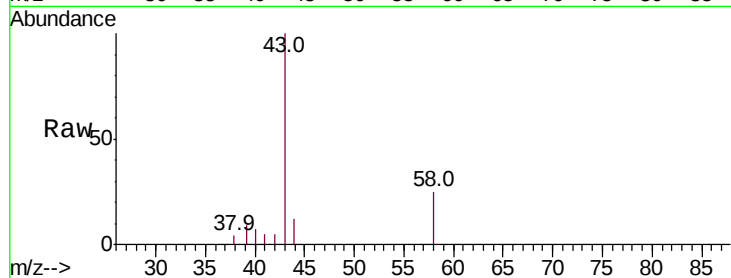
PB131850ZHE#16

Tot Ion: 43 Resp: 11553

Ion Ratio Lower Upper

43 100

58 24.7 22.3 33.5



#18

Methyl Acetate

Concen: 1.515 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN063654.D

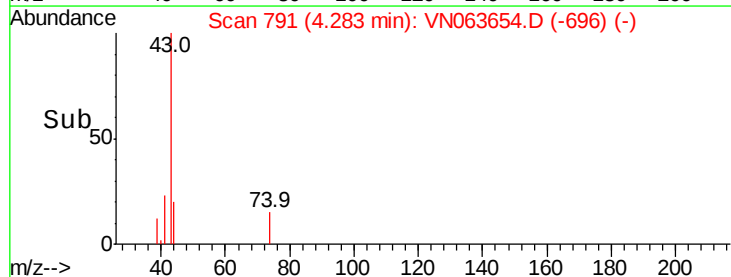
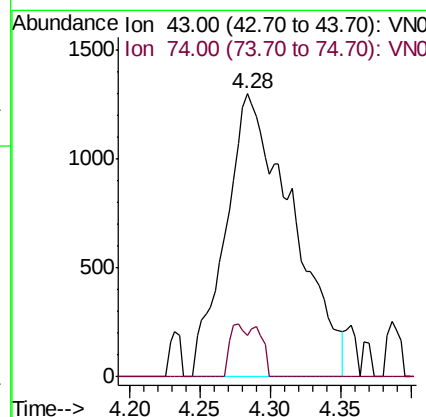
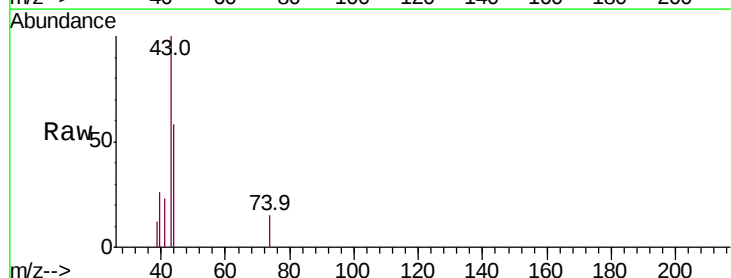
Acq: 25 Sep 2020 2:37

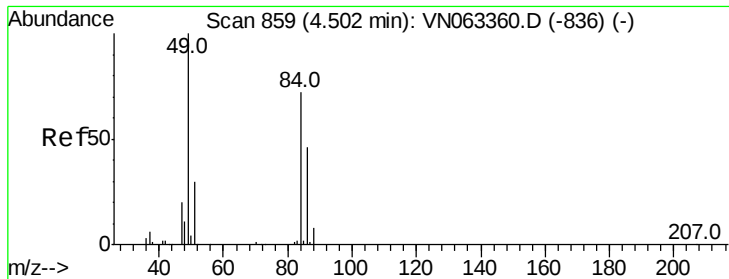
Tgt Ion: 43 Resp: 4276

Ion Ratio Lower Upper

43 100

74 4.7 17.4 26.2#

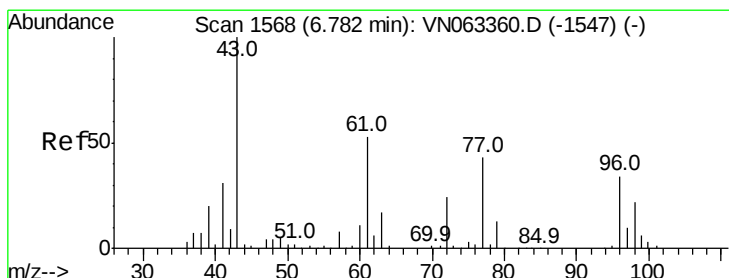
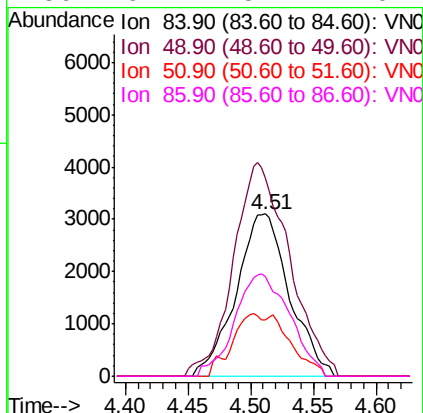
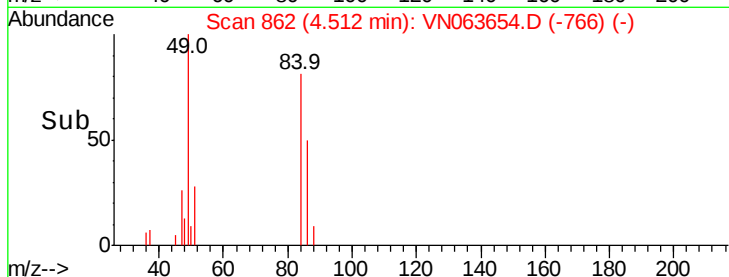
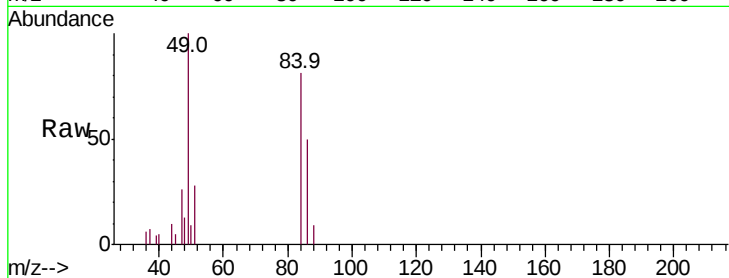




#20
Methvlene Chloride
Concen: 3.254 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN063654.D
Acq: 25 Sep 2020 2:37

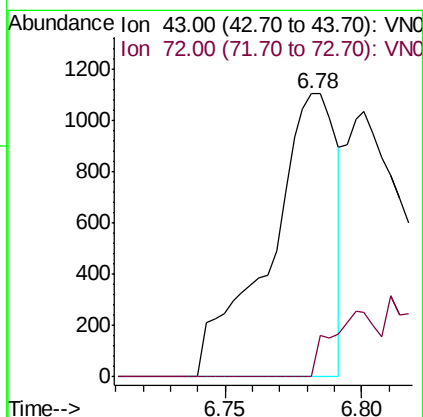
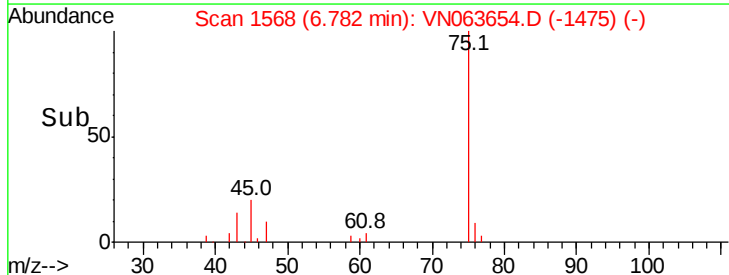
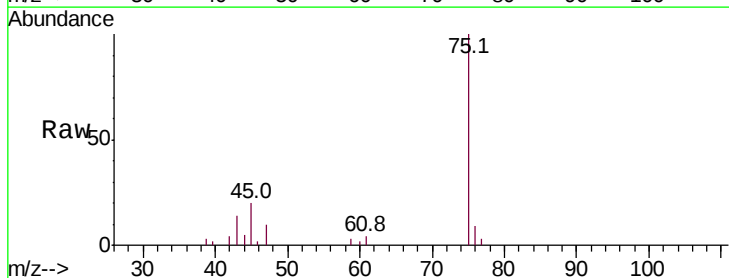
Instrument :
MSVOA_N
ClientSampleId :
PB131850ZHE#16

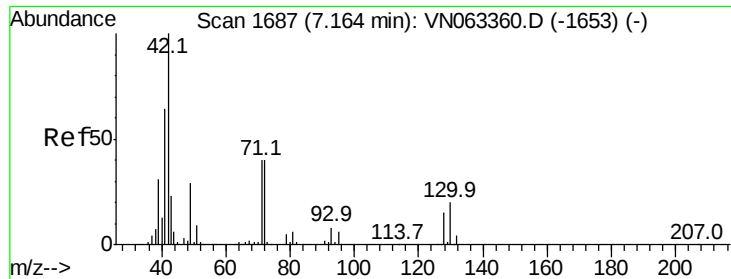
Tot Ion:	84	Resp:	9167
Ion	Ratio	Lower	Upper
84	100		
49	122.7	110.7	166.1
51	34.7	32.9	49.3
86	61.4	51.1	76.7



#25
2-Butanone
Concen: 1.102 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VN063654.D
Acq: 25 Sep 2020 2:37

Tgt Ion:	43	Resp:	1884
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.2	28.8#





#29

Tetrahydrofuran

Concen: 0.777 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB131850ZHE#16

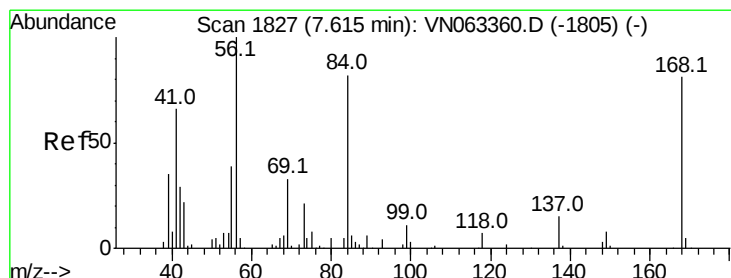
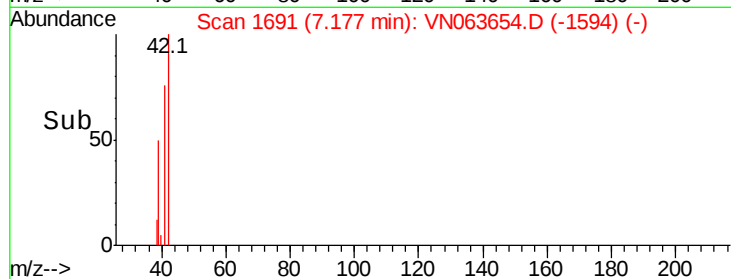
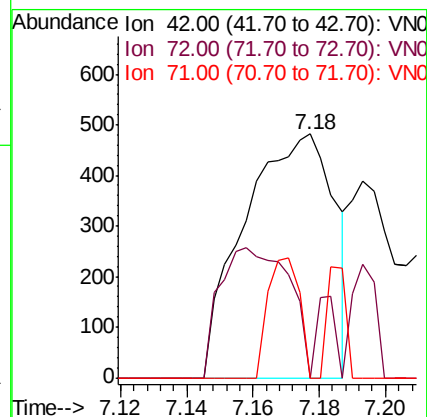
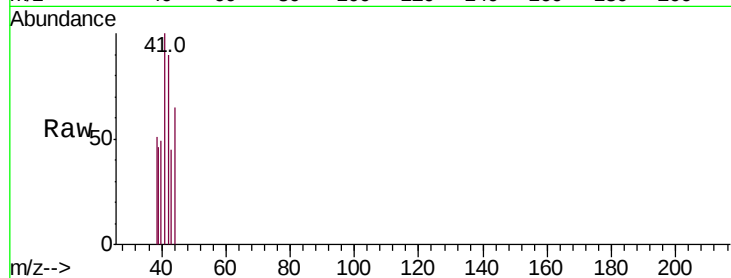
Tot Ion: 42 Resp: 908

Ion Ratio Lower Upper

42 100

72 6.8 32.1 48.1#

71 9.3 31.2 46.8#



#31

Cyclohexane

Concen: 1.255 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

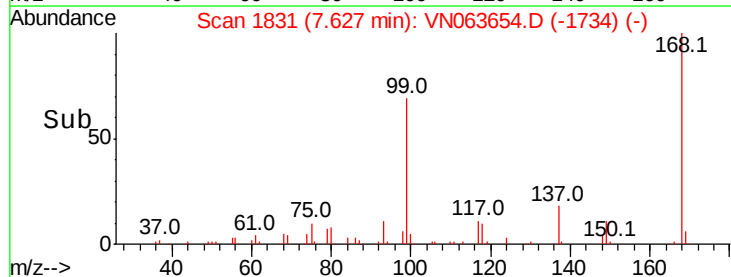
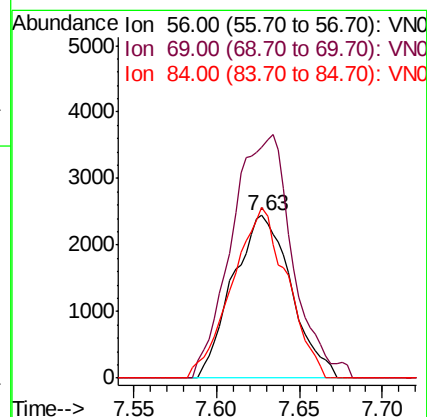
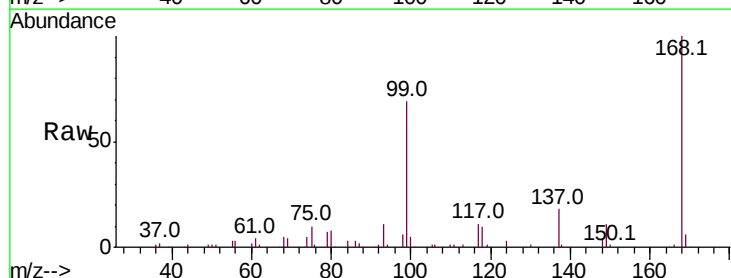
Tgt Ion: 56 Resp: 5997

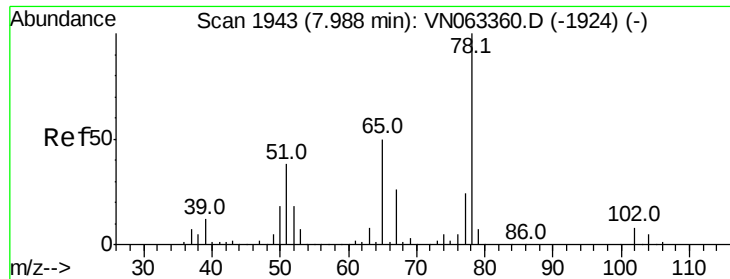
Ion Ratio Lower Upper

56 100

69 141.5 26.1 39.1#

84 104.7 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 51.005 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

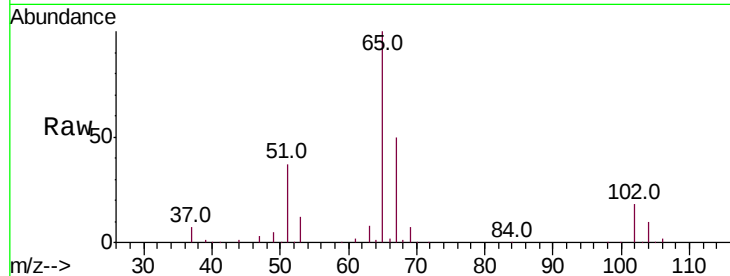
PB131850ZHE#16

Tot Ion: 65 Resp: 176457

Ion Ratio Lower Upper

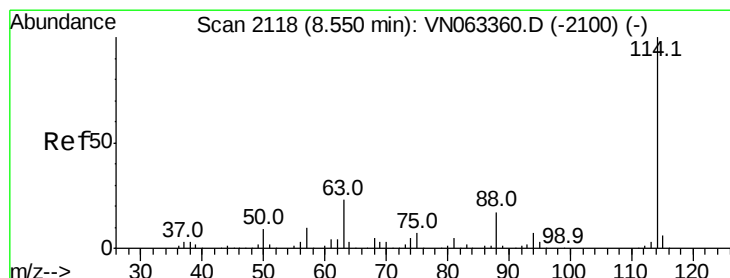
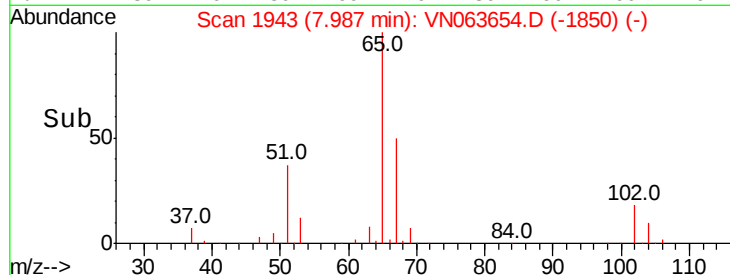
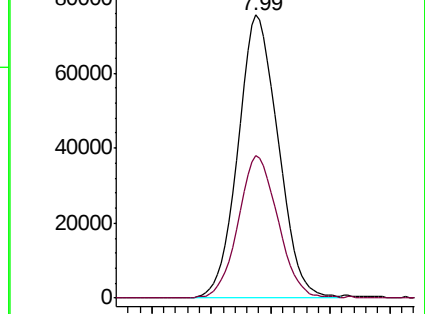
65 100

67 49.8 0.0 104.2



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

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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

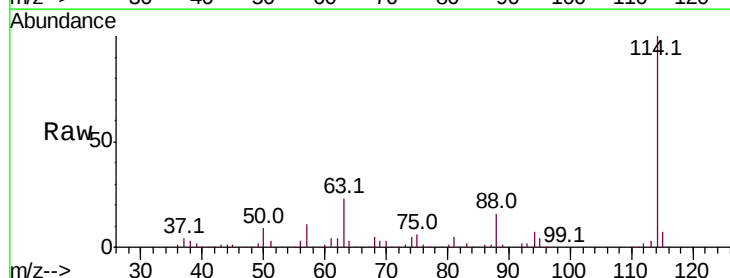
Tgt Ion: 114 Resp: 396328

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.4

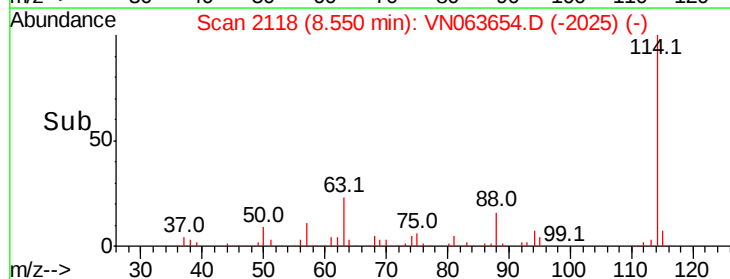
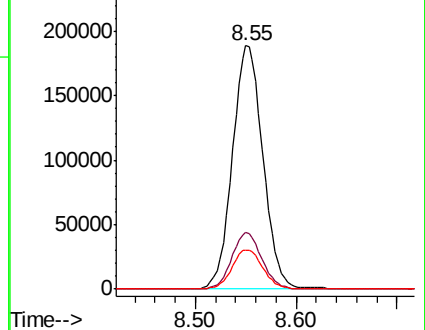
88 16.1 0.0 33.2

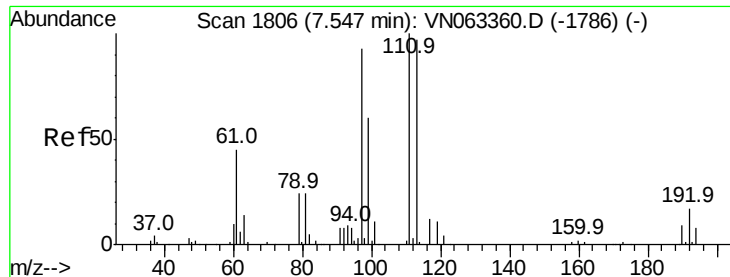


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

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

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

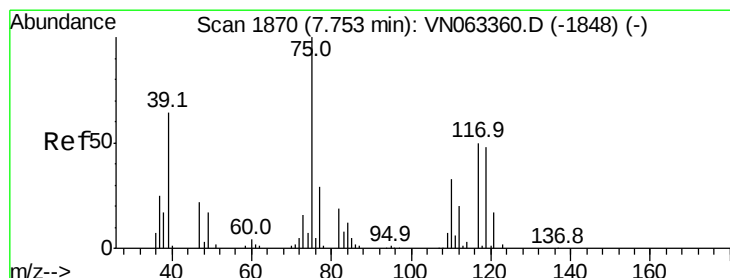
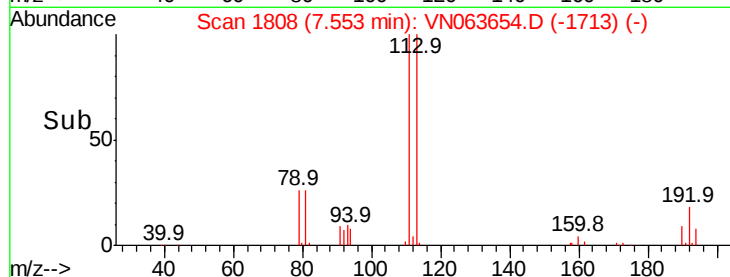
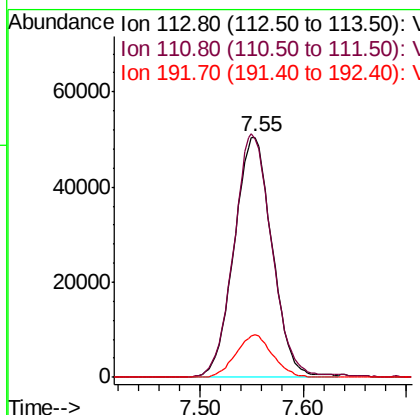
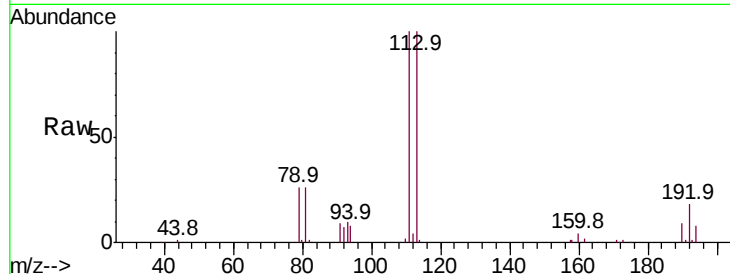




#35
 Dibromofluoromethane
 Concen: 47.198 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063654.D
 Acq: 25 Sep 2020 2:37

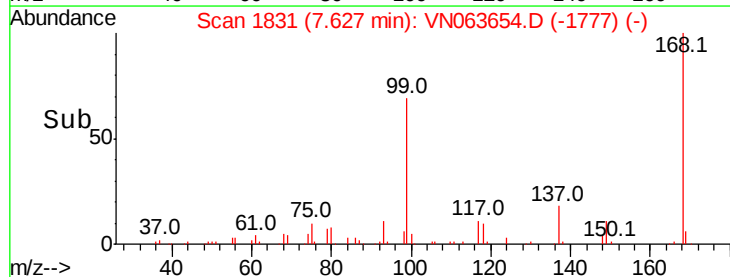
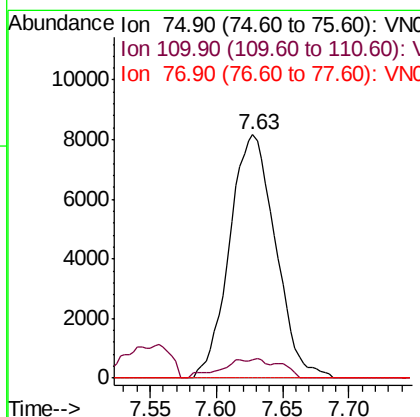
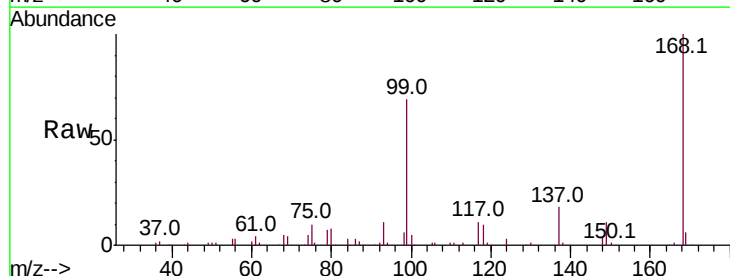
Instrument :
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 PB131850ZHE#16

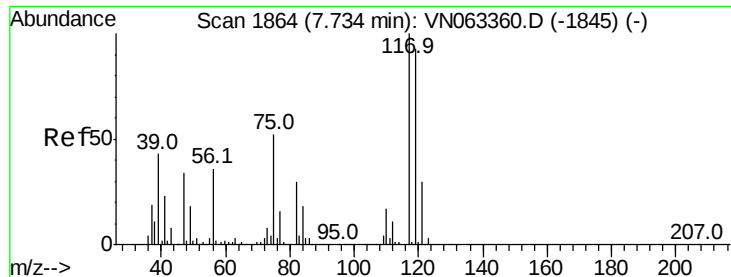
Tot Ion:113 Resp: 129498
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.9 124.3
 192 17.1 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.661 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063654.D
 Acq: 25 Sep 2020 2:37

Tgt Ion: 75 Resp: 19679
 Ion Ratio Lower Upper
 75 100
 110 1.9 16.5 49.5#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.298 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB131850ZHE#16

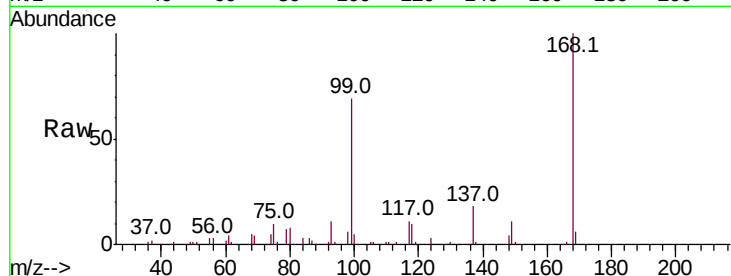
Tot Ion:117 Resp: 22835

Ion Ratio Lower Upper

117 100

119 5.9 74.5 111.7#

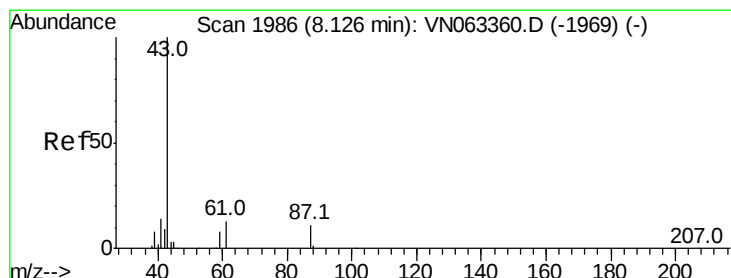
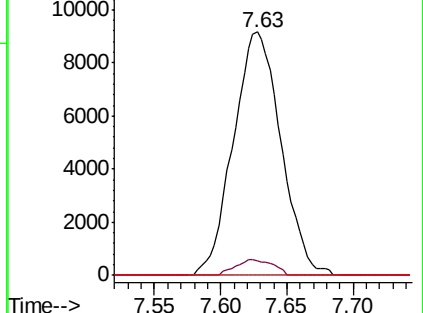
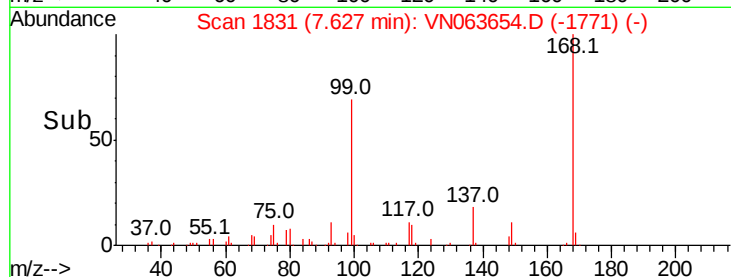
121 0.0 24.1 36.1#



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: 9.719 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

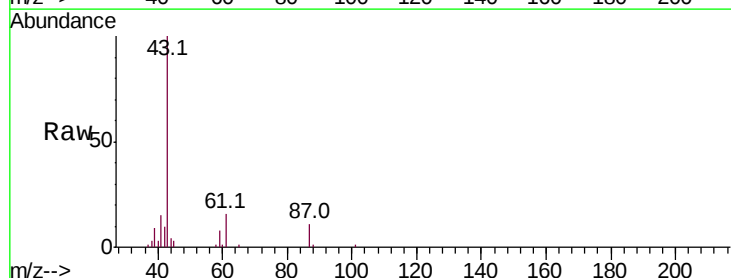
Tgt Ion: 43 Resp: 72014

Ion Ratio Lower Upper

43 100

61 17.4 14.2 21.2

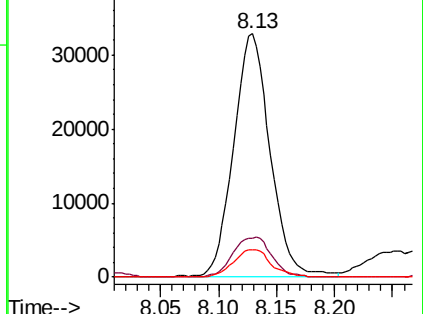
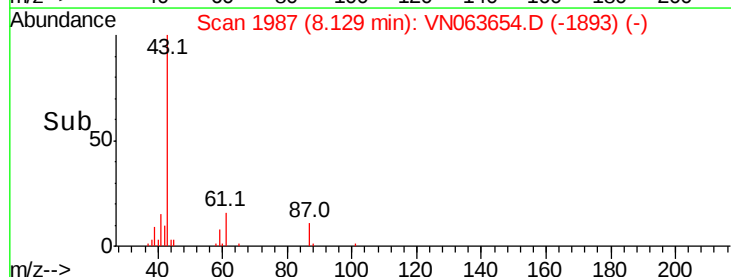
87 11.5 9.0 13.6

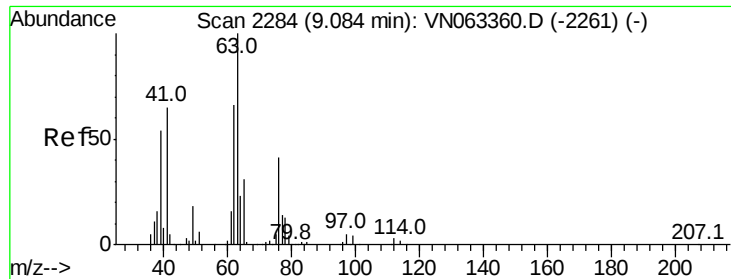


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.482 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

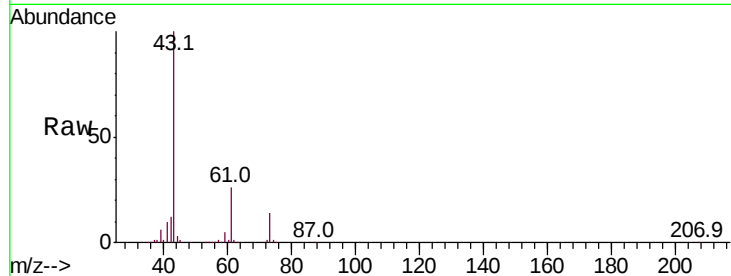
PB131850ZHE#16

Tot Ion: 63 Resp: 1581

Ion Ratio Lower Upper

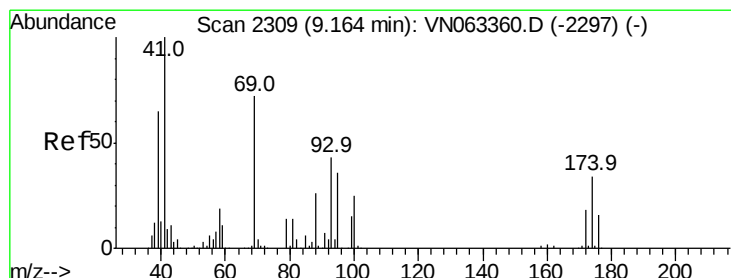
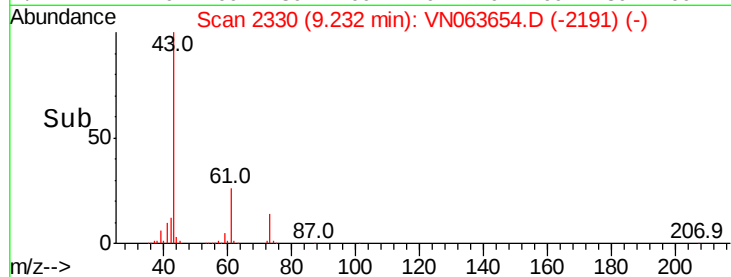
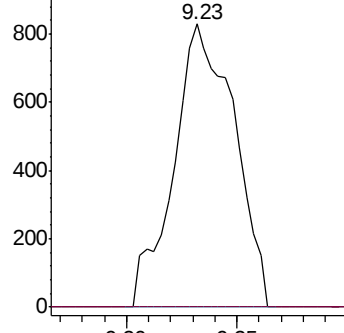
63 100

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: 1.275 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

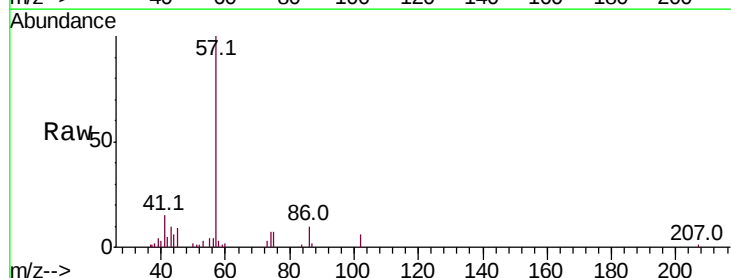
Tgt Ion: 41 Resp: 4642

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

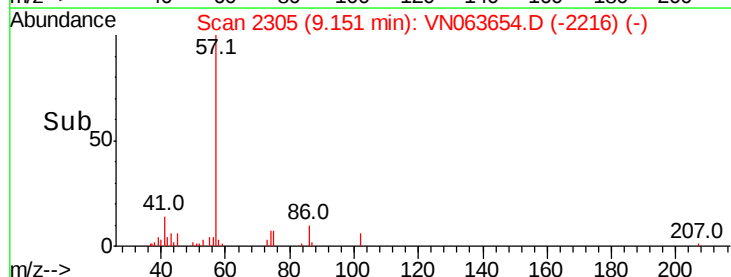
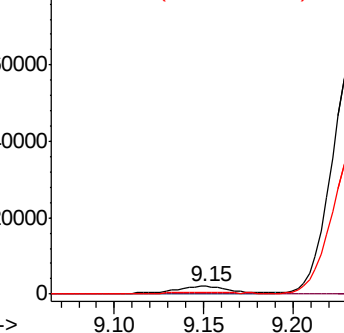
39 0.0 52.9 79.3#

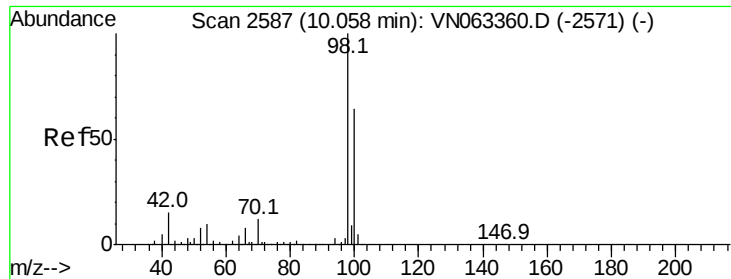


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.160 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

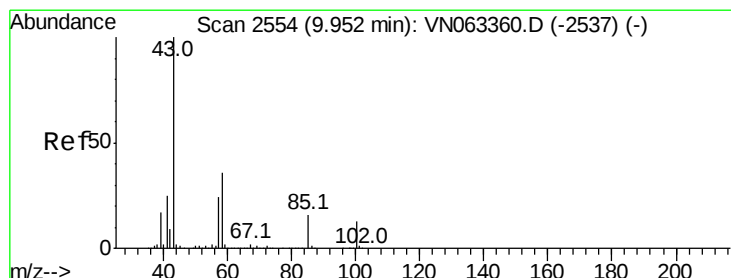
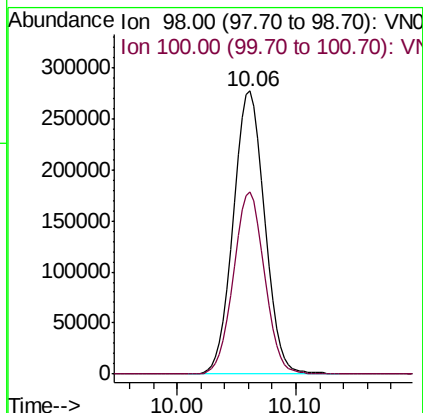
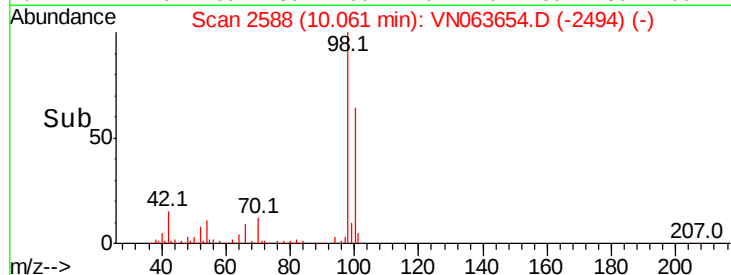
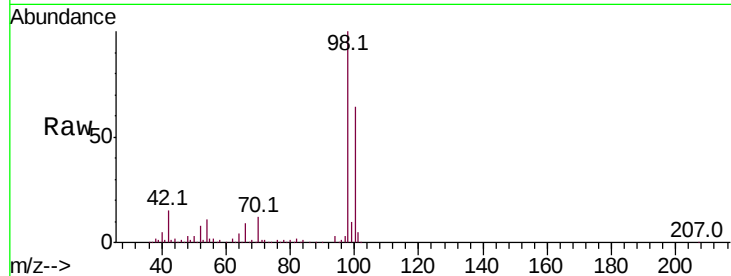
PB131850ZHE#16

Tot Ion: 98 Resp: 507177

Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 1.580 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063654.D

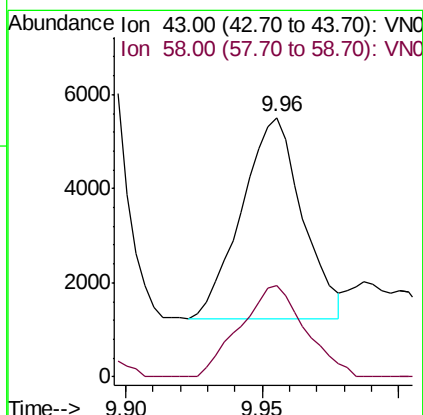
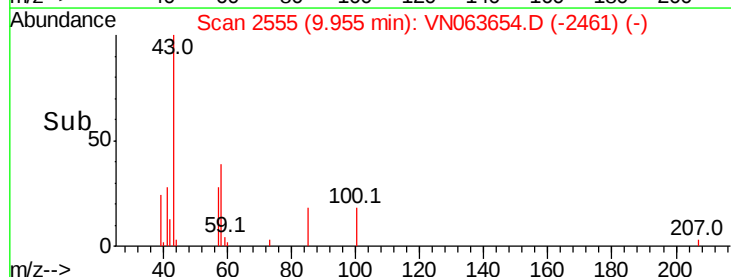
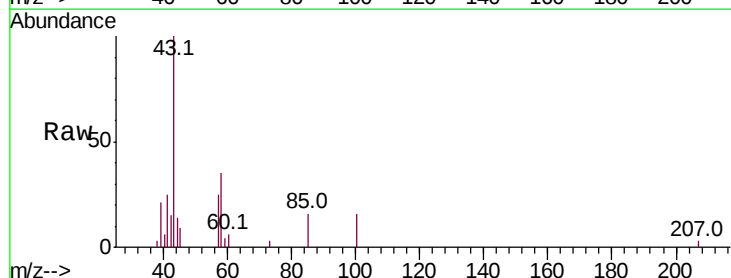
Acq: 25 Sep 2020 2:37

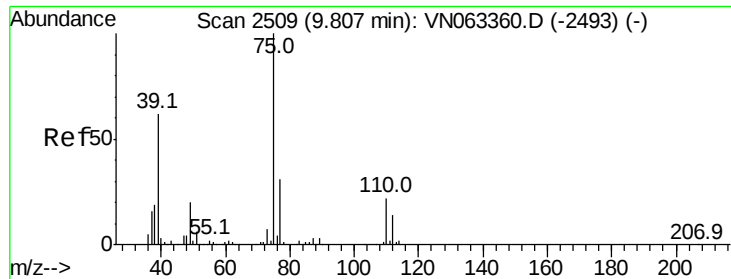
Tgt Ion: 43 Resp: 6555

Ion Ratio Lower Upper

43 100

58 49.3 29.0 43.6#





#54

cis-1,3-Dichloropropene

Concen: 5.429 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB131850ZHE#16

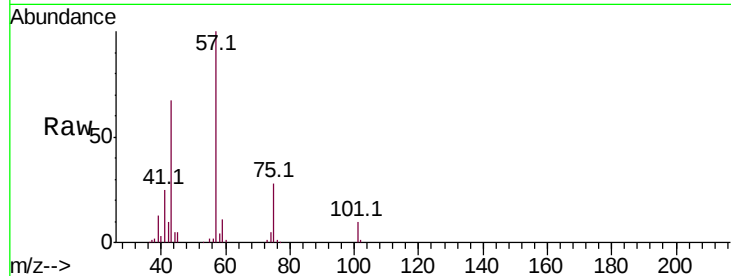
Tot Ion: 75 Resp: 28658

Ion Ratio Lower Upper

75 100

77 1.0 24.6 37.0#

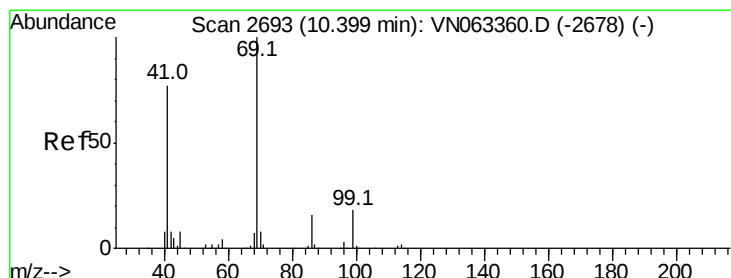
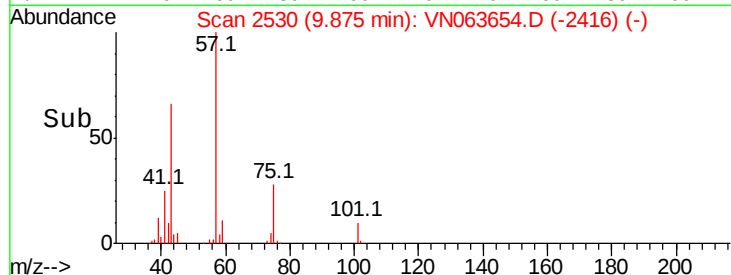
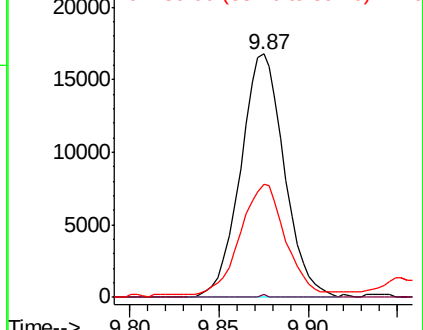
39 45.4 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.338 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

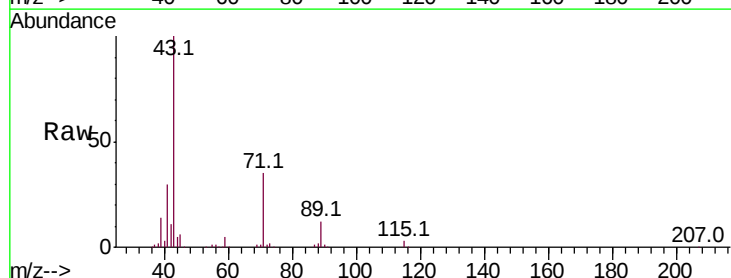
Tgt Ion: 69 Resp: 1521

Ion Ratio Lower Upper

69 100

41 5028.7 61.0 91.6#

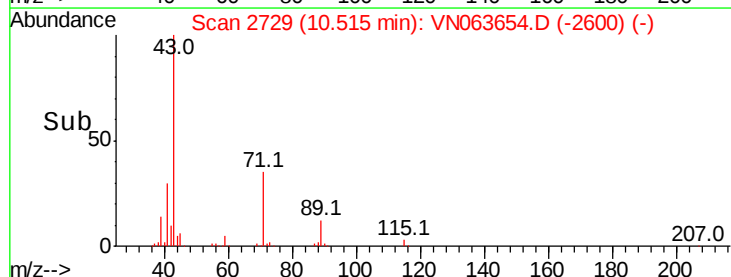
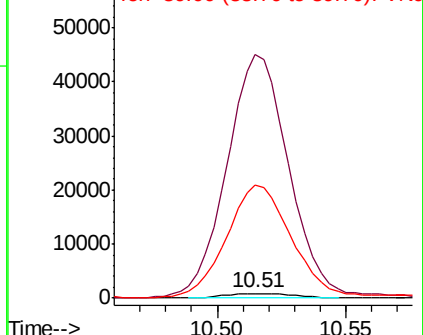
39 2450.1 39.2 58.8#

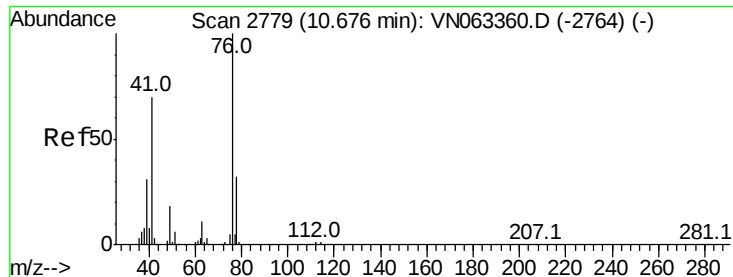


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.968 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

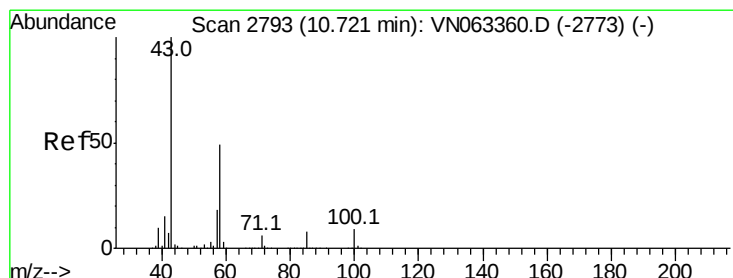
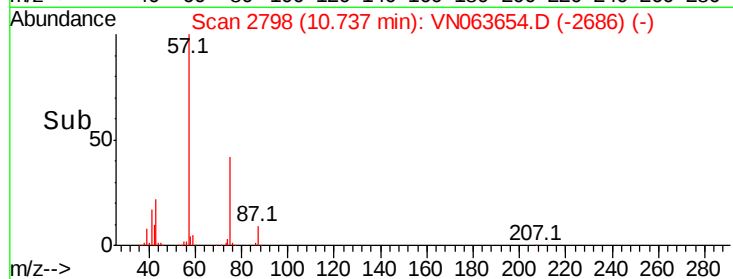
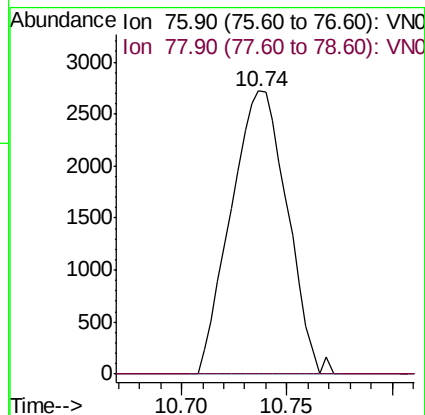
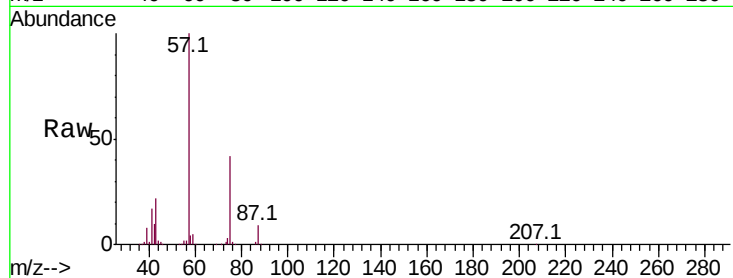
PB131850ZHE#16

Tot Ion: 76 Resp: 5024

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 25.696 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063654.D

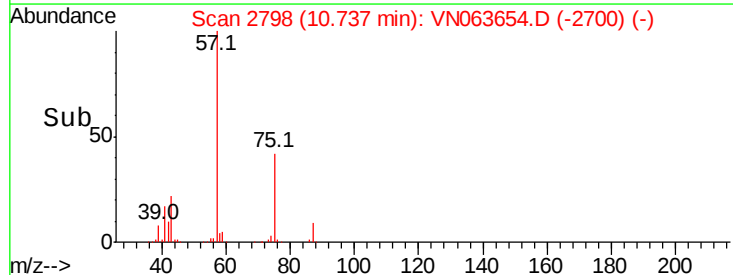
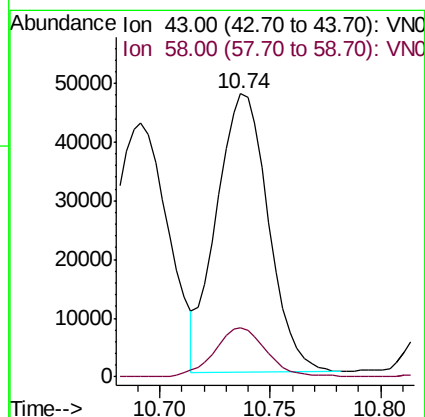
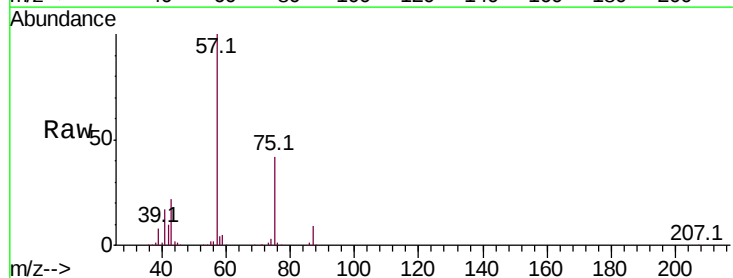
Acq: 25 Sep 2020 2:37

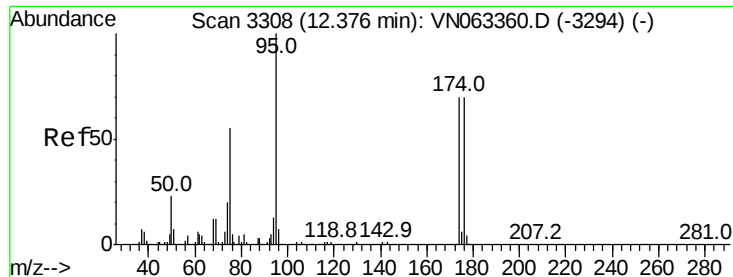
Tgt Ion: 43 Resp: 77227

Ion Ratio Lower Upper

43 100

58 17.7 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 52.749 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB131850ZHE#16

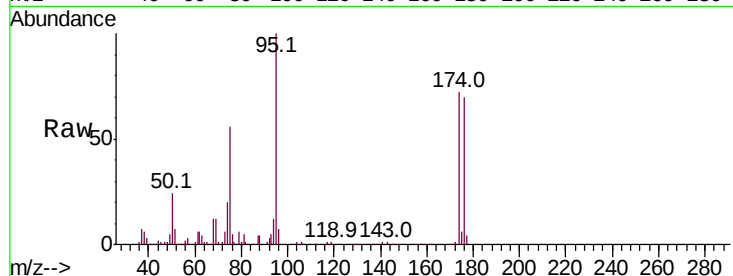
Tot Ion: 95 Resp: 199494

Ion Ratio Lower Upper

95 100

174 73.6 0.0 140.8

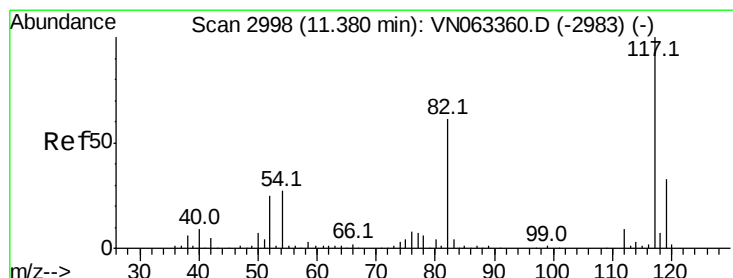
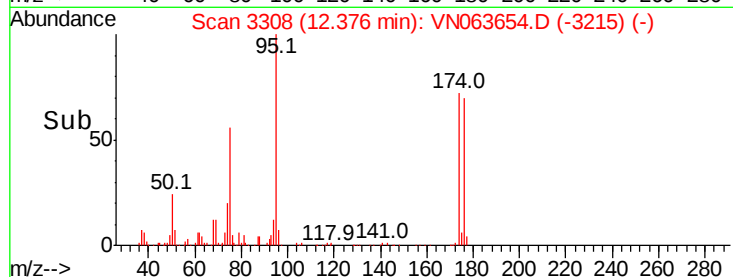
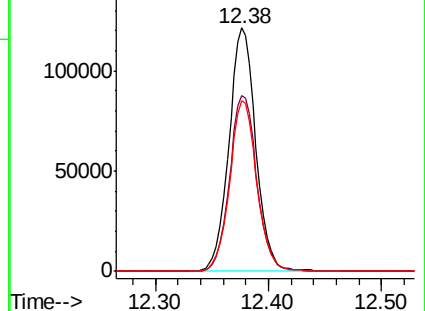
176 70.7 0.0 137.6



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

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

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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

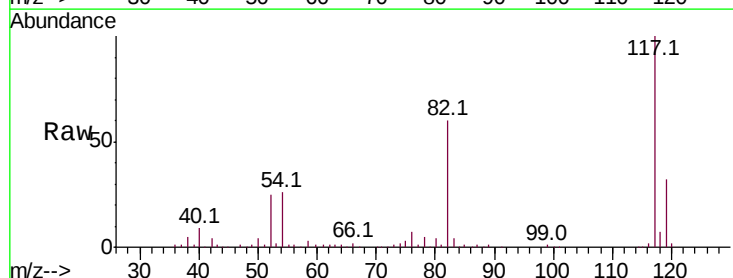
Tgt Ion: 117 Resp: 413487

Ion Ratio Lower Upper

117 100

82 59.8 49.2 73.8

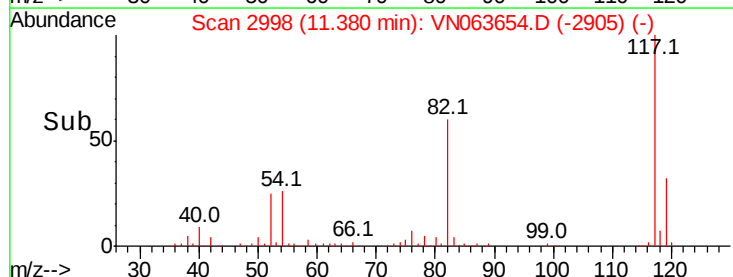
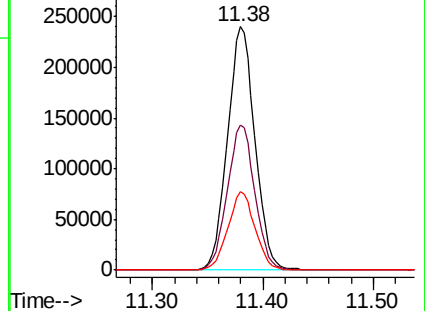
119 32.2 26.2 39.4

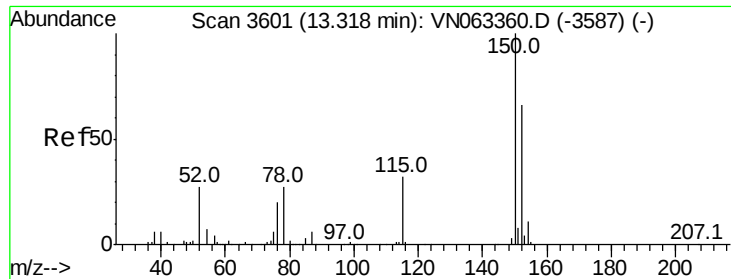


Abundance Ion 116.90 (116.60 to 117.60): VN063360.D (-2983) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

PB131850ZHE#16

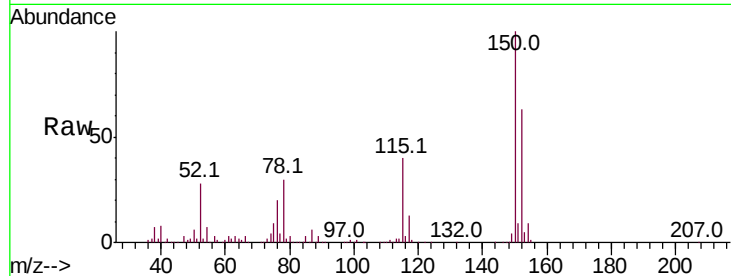
Tot Ion:152 Resp: 173114

Ion Ratio Lower Upper

152 100

115 62.7 32.2 96.6

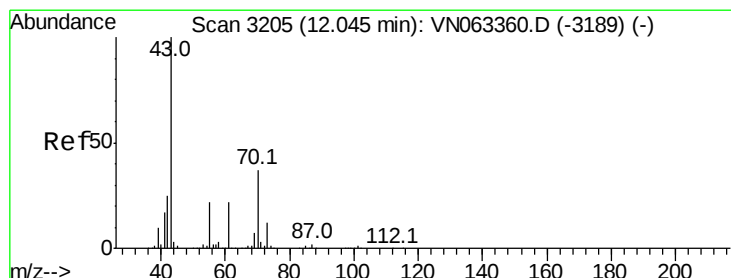
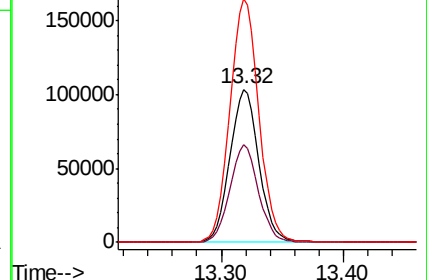
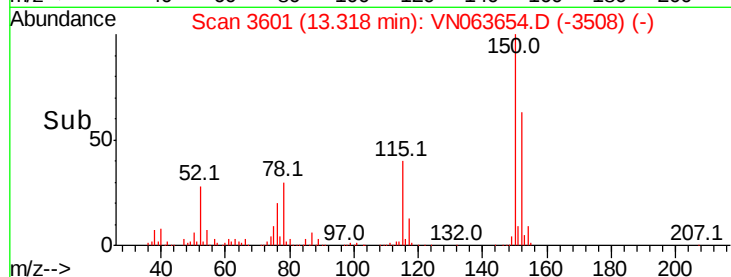
150 158.4 0.0 343.4



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-ethyl acetate

Concen: 0.511 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Tgt Ion: 43 Resp: 3356

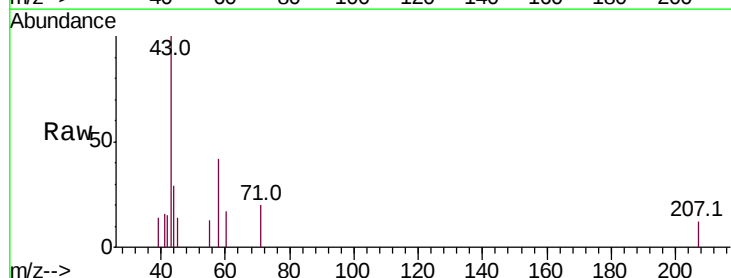
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 4.6 17.7 26.5#

61 0.0 17.4 26.2#

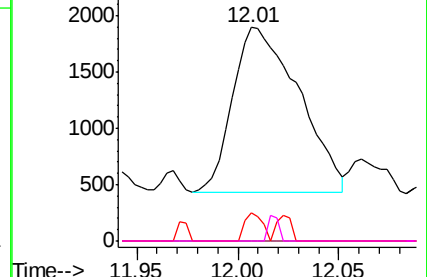
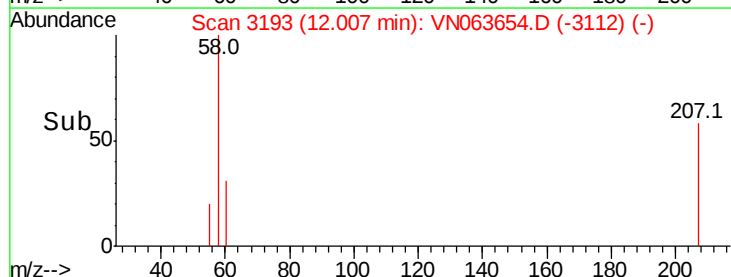


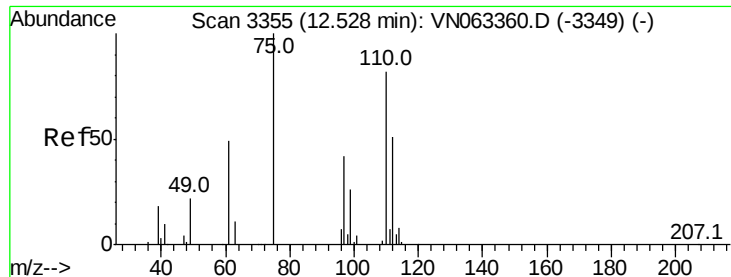
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 26.459 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

Instrument :

MSVOA_N

ClientSampleId :

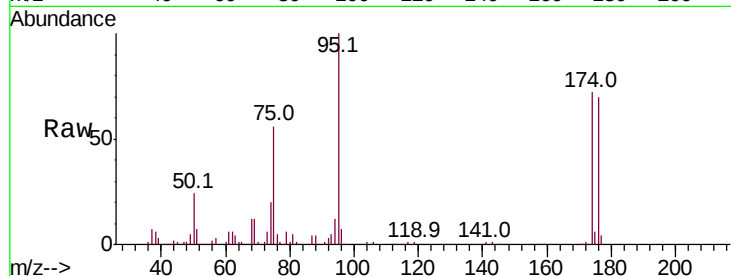
PB131850ZHE#16

Tot Ion: 75 Resp: 113371

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.38

80000

60000

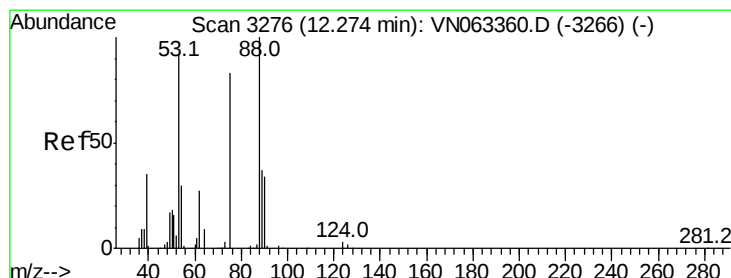
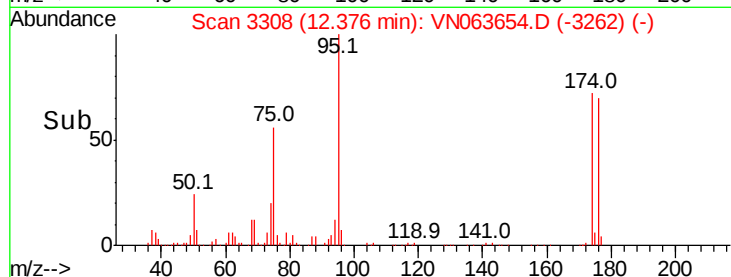
40000

20000

0

Time-->

12.30 12.40



#81

trans-1,4-Dichloro-2-butene

Concen: 72.540 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063654.D

Acq: 25 Sep 2020 2:37

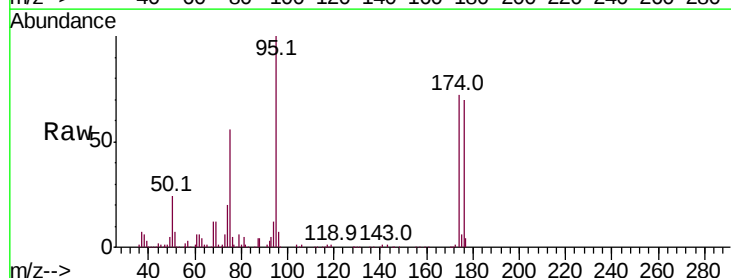
Tgt Ion: 75 Resp: 113371

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.38

80000

60000

40000

20000

0

Time-->

12.30 12.40

