

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063392.D
 Acq On : 17 Sep 2020 3:03
 Operator : JC/MD
 Sample : PB131646ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#19

Quant Time: Sep 17 05:12:57 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	7.62	168	230125	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	429702	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	424935	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177577	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	184736	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	
35) Dibromofluoromethane	7.55	113	137121	46.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.20%	
50) Toluene-d8	10.06	98	552812	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.38	95	224070	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	

Target Compounds

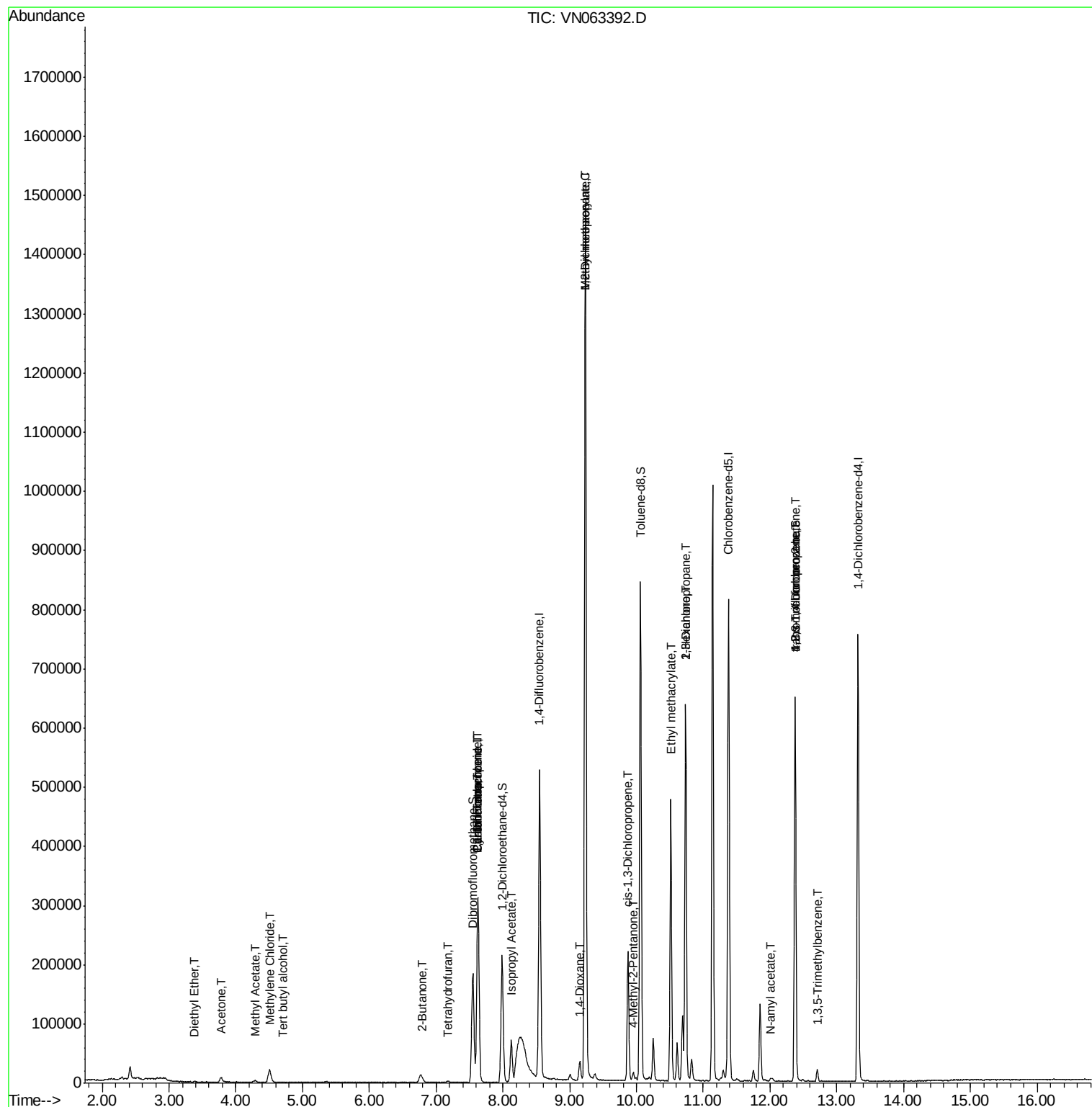
						Qvalue
8) Diethyl Ether	3.38	74	387	0.218	ug/l #	16
11) Tert butyl alcohol	4.71	59	239	0.440	ug/l #	72
16) Acetone	3.78	43	14677	11.658	ug/l	99
18) Methyl Acetate	4.29	43	4317	1.351	ug/l	97
20) Methylene Chloride	4.51	84	14765	4.629	ug/l	93
25) 2-Butanone	6.79	43	4130	2.133	ug/l	94
29) Tetrahydrofuran	7.17	42	1329	1.005	ug/l #	54
31) Cyclohexane	7.62	56	6916	1.278	ug/l #	22
36) 1,1-Dichloropropene	7.62	75	21651	4.729	ug/l #	50
38) Carbon Tetrachloride	7.63	117	25142	5.380	ug/l #	16
43) Isopropyl Acetate	8.13	43	84530	10.522	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1518	0.427	ug/l #	43
48) Methyl methacrylate	9.23	41	146705	37.168	ug/l #	48
49) 1,4-Dioxane	9.16	88	71	1.253	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9904	2.202	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	35537	6.210	ug/l #	61
56) Ethyl methacrylate	10.52	69	1332	0.273	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6834	1.214	ug/l #	42
59) 2-Hexanone	10.74	43	98026	30.084	ug/l #	55
74) N-amyl acetate	12.00	43	4988	0.740	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	122389	27.846	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	9718	0.819	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	122389	76.342	ug/l #	7

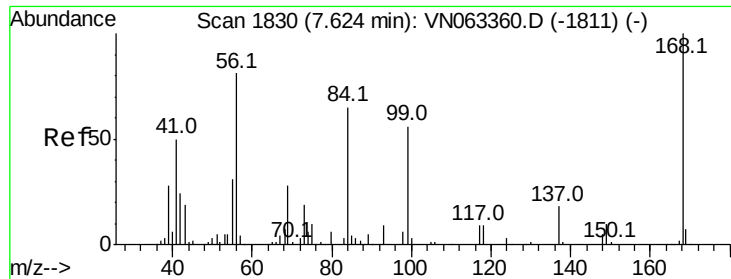
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

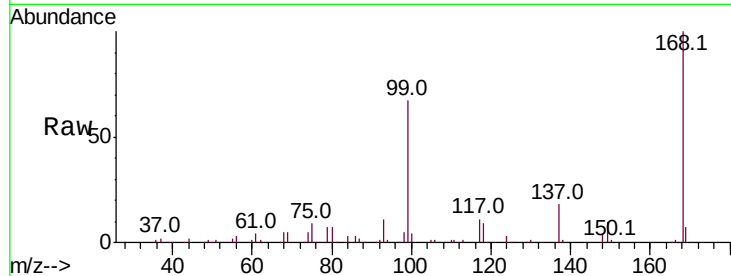
PB131646ZHE#19

Tot Ion:168 Resp: 230125

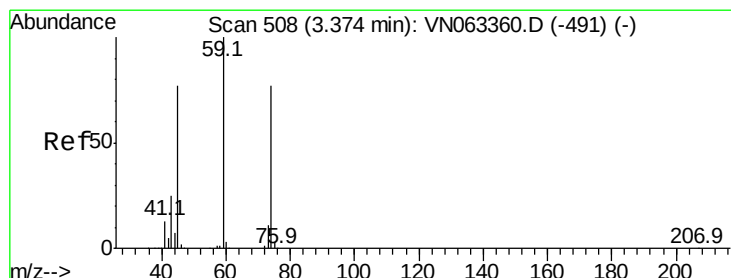
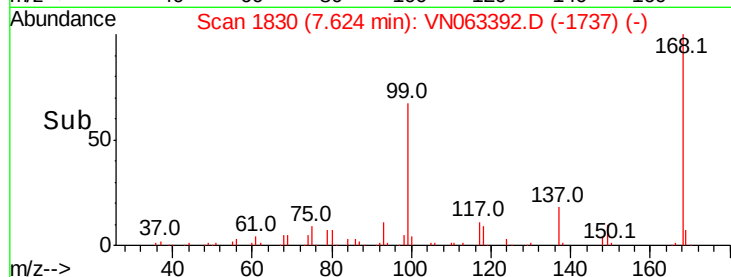
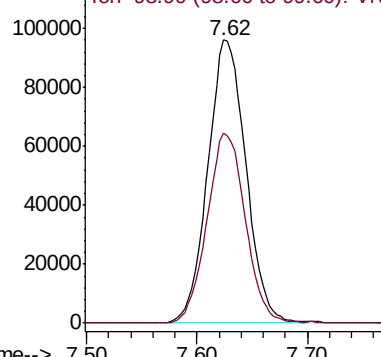
Ion Ratio Lower Upper

168 100

99 66.9 53.0 79.6



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



#8

Diethyl Ether

Concen: 0.218 ug/l

RT: 3.38 min Scan# 510

Delta R.T. 0.01 min

Lab File: VN063392.D

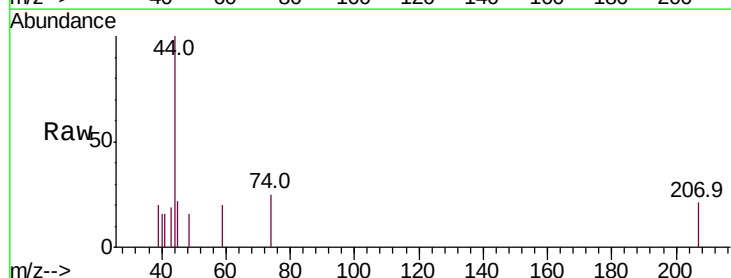
Acq: 17 Sep 2020 3:03

Tgt Ion: 74 Resp: 387

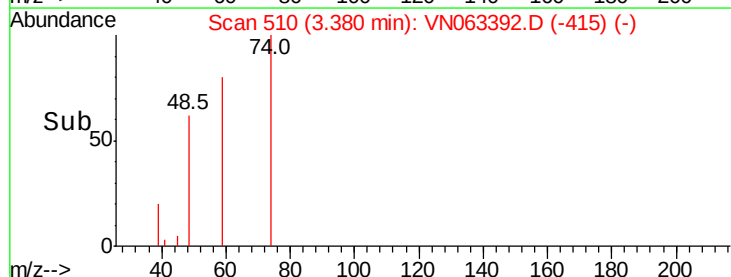
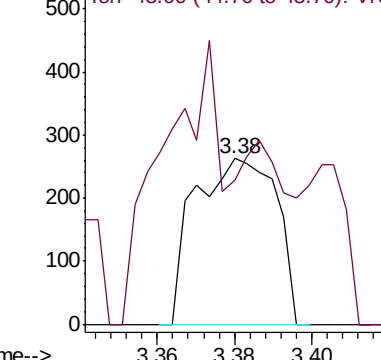
Ion Ratio Lower Upper

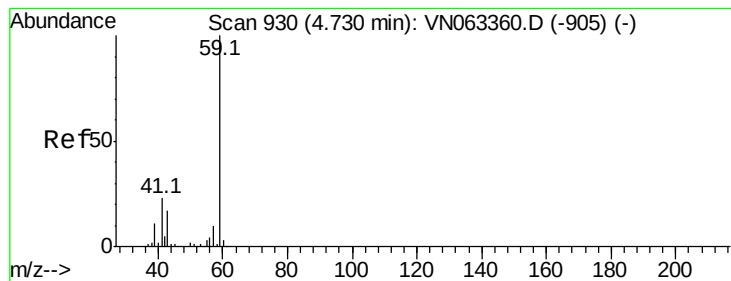
74 100

45 17.8 52.1 156.4#



Abundance Ion 74.00 (73.70 to 74.70): VN063360.D (-491) (-)





#11

Tert butyl alcohol

Concen: 0.440 ug/l

RT: 4.71 min Scan# 923

Delta R.T. -0.02 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

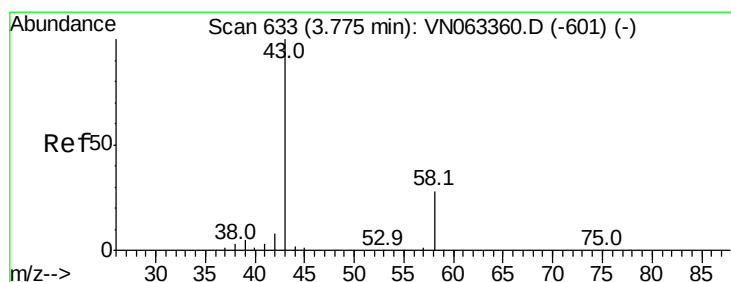
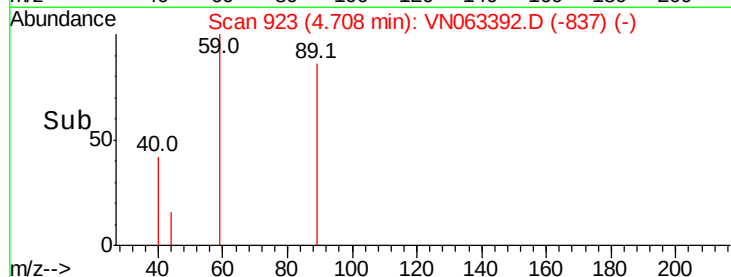
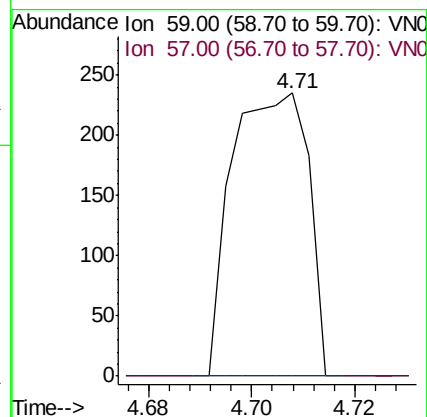
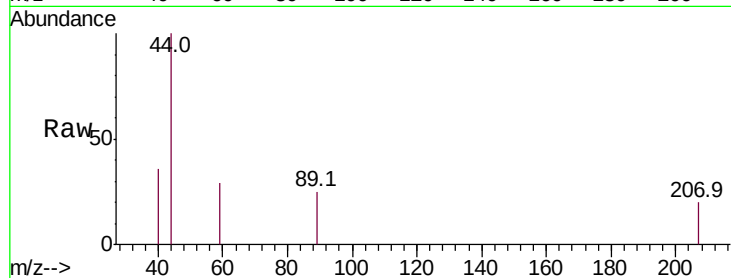
PB131646ZHE#19

Tot Ion: 59 Resp: 239

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#16

Acetone

Concen: 11.658 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063392.D

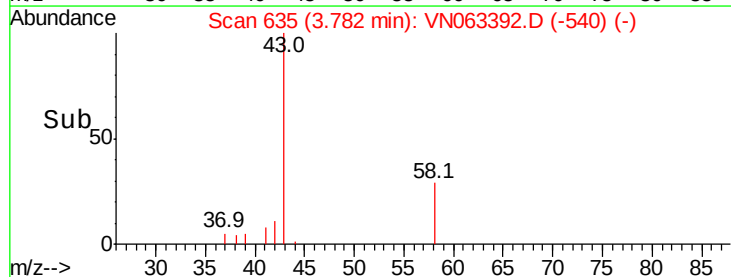
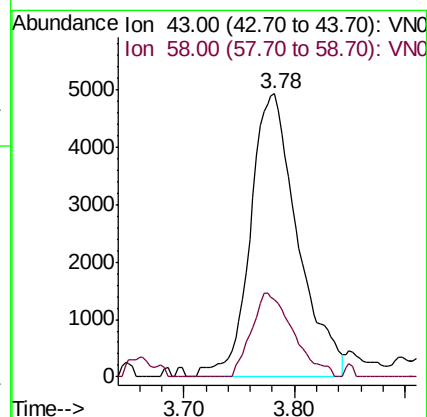
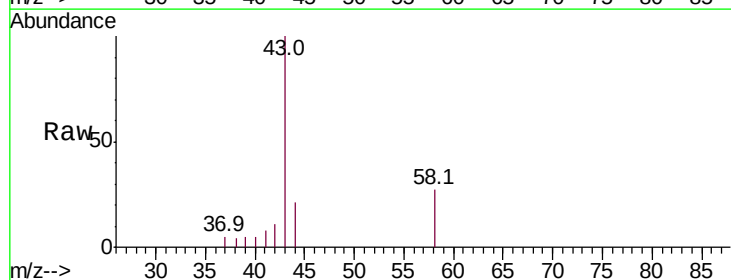
Acq: 17 Sep 2020 3:03

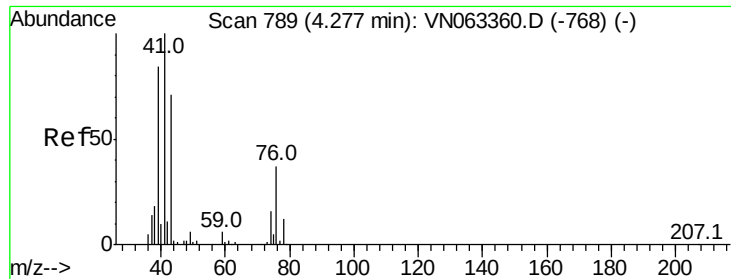
Tgt Ion: 43 Resp: 14677

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5

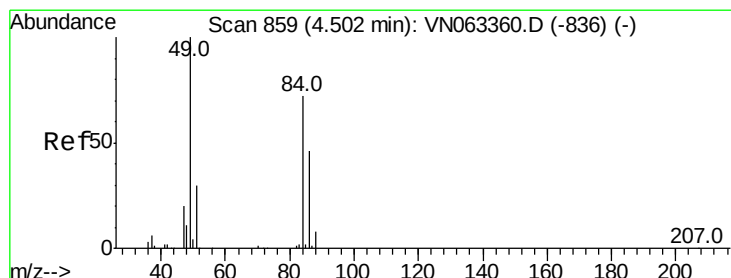
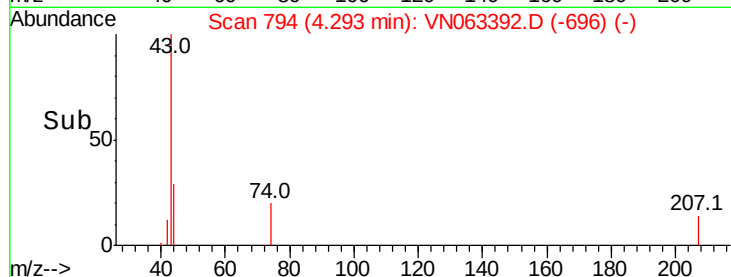
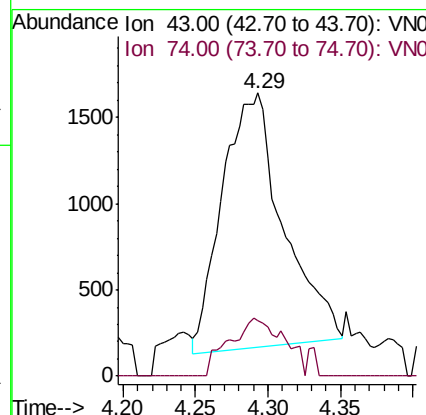
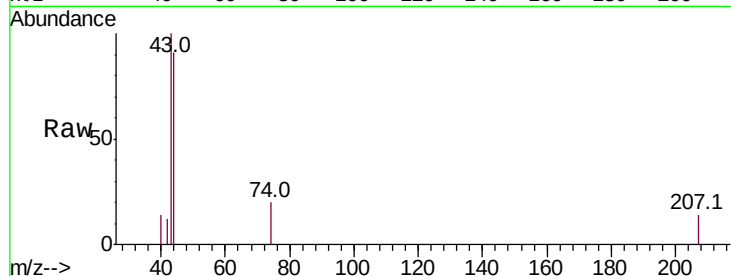




#18
Methyl Acetate
Concen: 1.351 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN063392.D
Acq: 17 Sep 2020 3:03

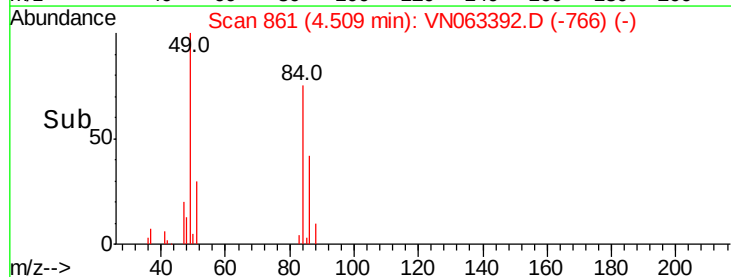
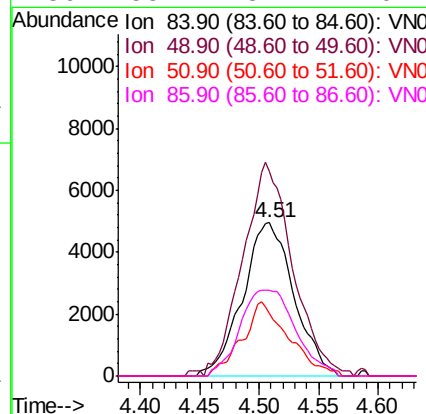
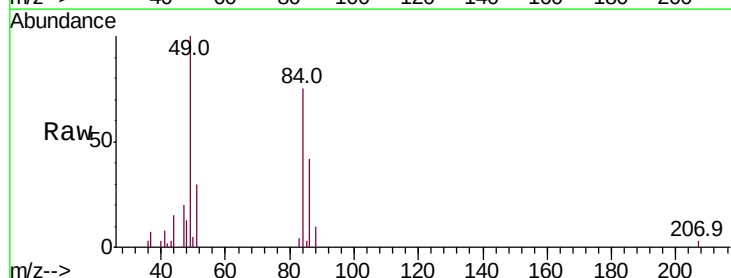
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#19

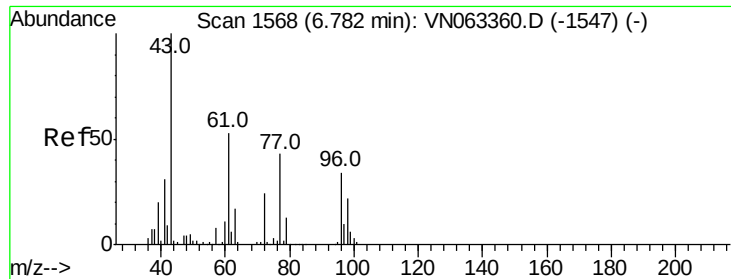
Tot Ion: 43 Resp: 4317
Ion Ratio Lower Upper
43 100
74 20.3 17.4 26.2



#20
Methylene Chloride
Concen: 4.629 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063392.D
Acq: 17 Sep 2020 3:03

Tgt Ion: 84 Resp: 14765
Ion Ratio Lower Upper
84 100
49 130.4 110.7 166.1
51 40.7 32.9 49.3
86 55.7 51.1 76.7





#25

2-Butanone

Concen: 2.133 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

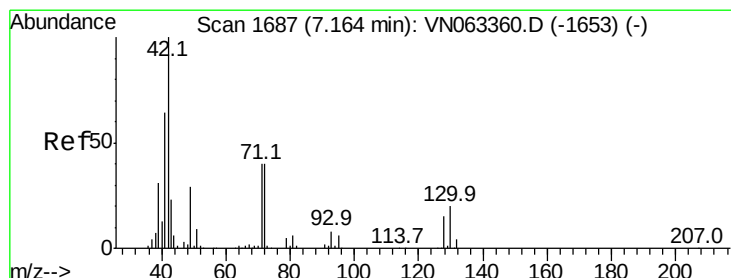
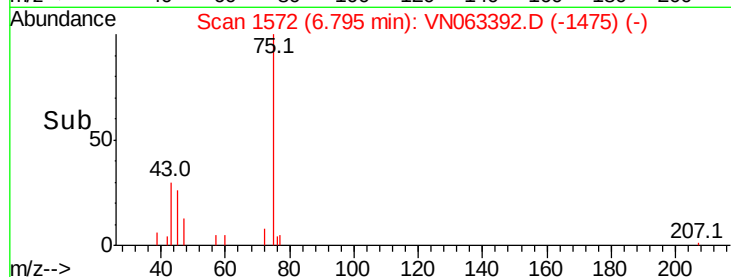
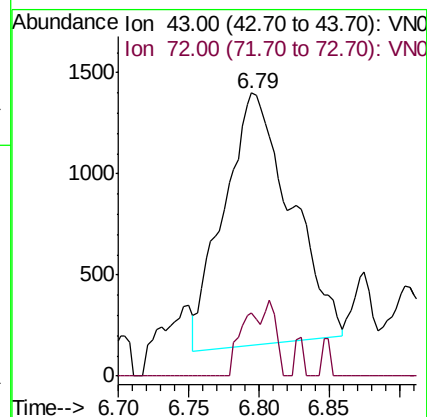
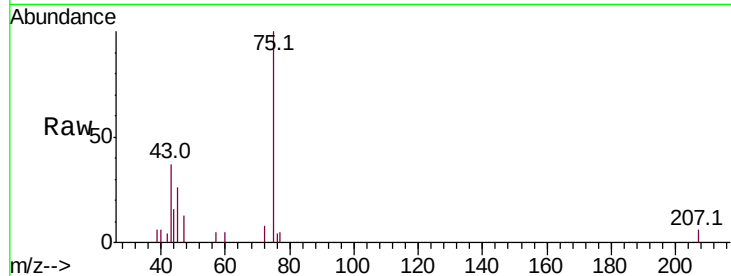
PB131646ZHE#19

Tot Ion: 43 Resp: 4130

Ion Ratio Lower Upper

43 100

72 26.8 19.2 28.8



#29

Tetrahydrofuran

Concen: 1.005 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

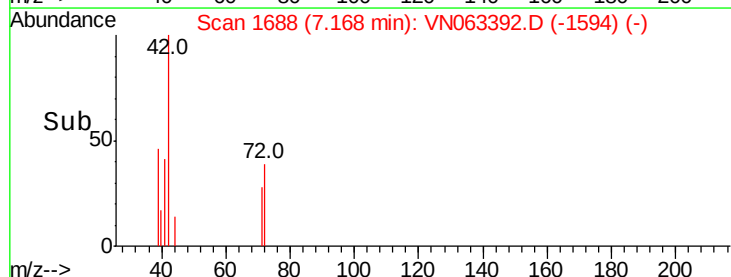
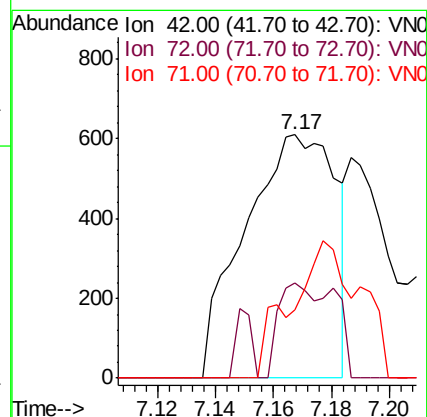
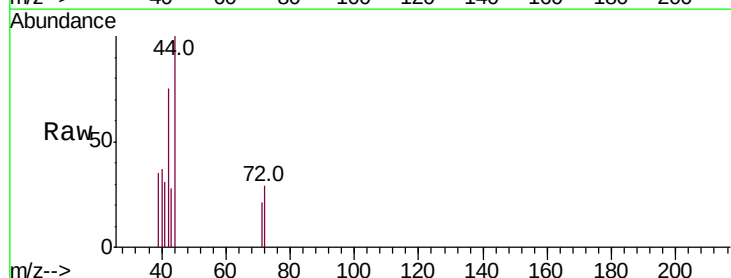
Tgt Ion: 42 Resp: 1329

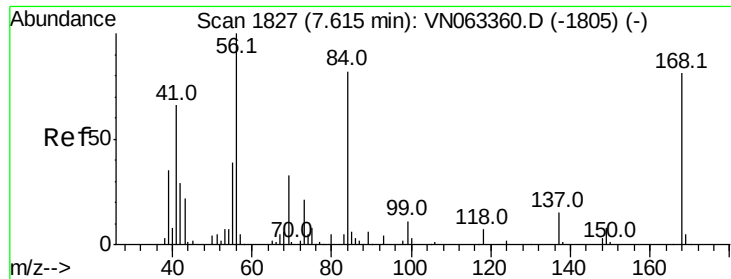
Ion Ratio Lower Upper

42 100

72 15.2 32.1 48.1#

71 7.4 31.2 46.8#

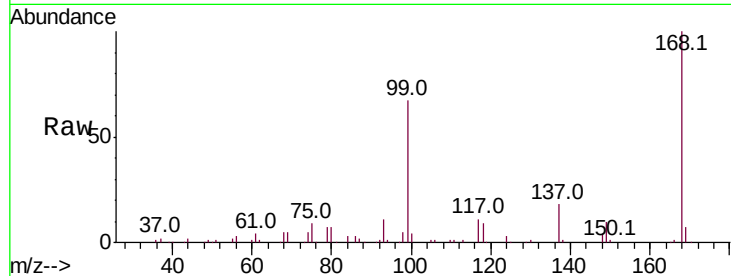




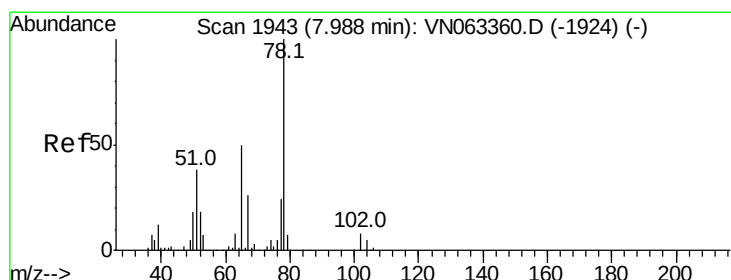
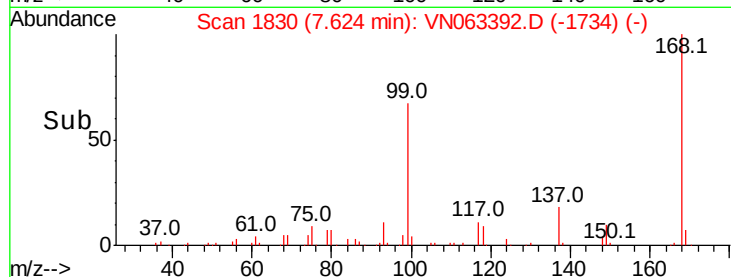
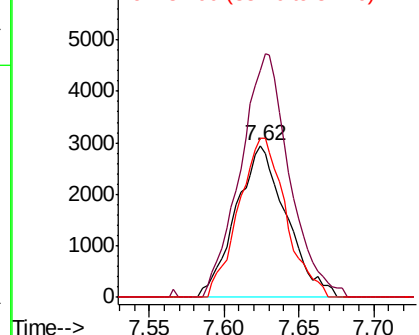
#31
Cyclohexane
Concen: 1.278 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063392.D
Acq: 17 Sep 2020 3:03

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#19

Tot Ion: 56 Resp: 6916
Ion Ratio Lower Upper
56 100
69 149.8 26.1 39.1#
84 105.3 65.4 98.2#

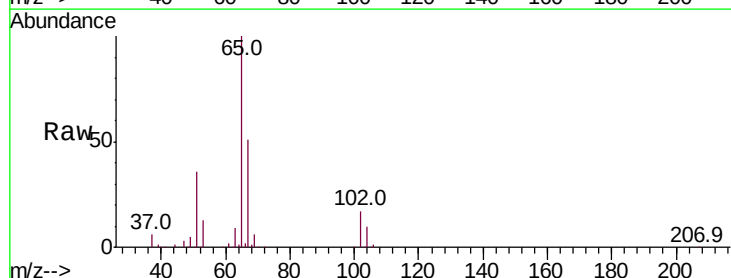


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

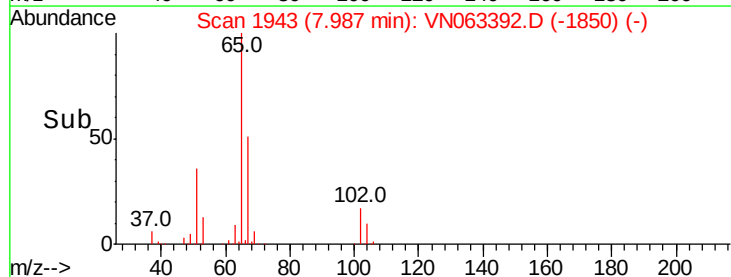
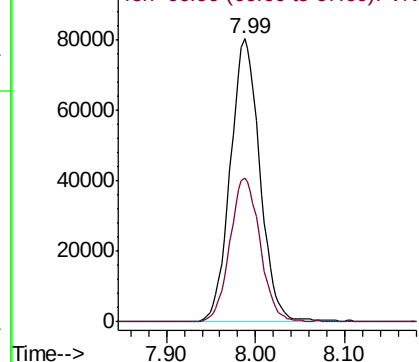


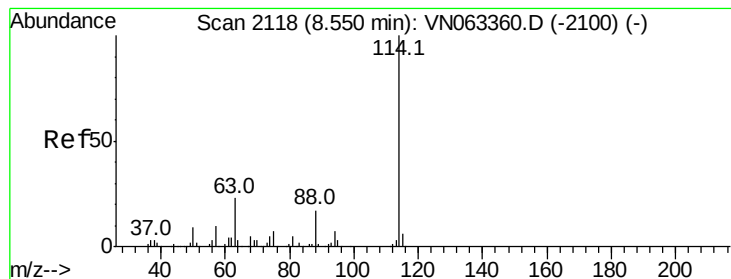
#33
1,2-Dichloroethane-d4
Concen: 47.159 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063392.D
Acq: 17 Sep 2020 3:03

Tgt Ion: 65 Resp: 184736
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#19

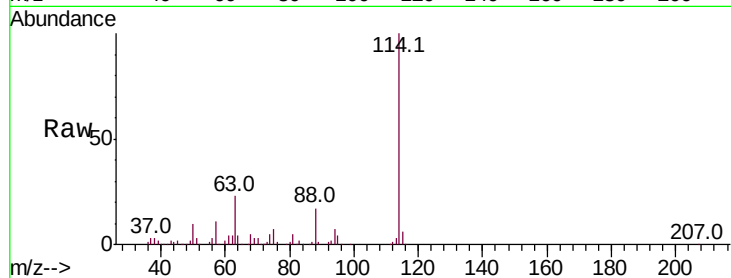
Tot Ion:114 Resp: 429702

Ion Ratio Lower Upper

114 100

63 22.8 0.0 46.4

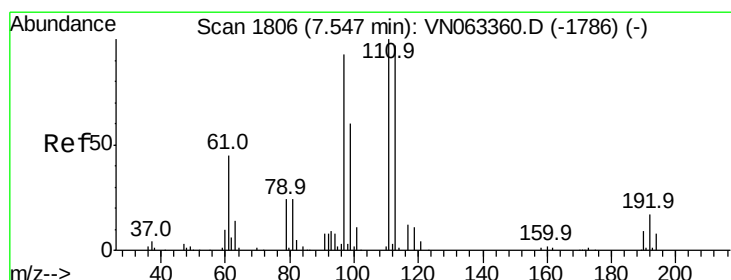
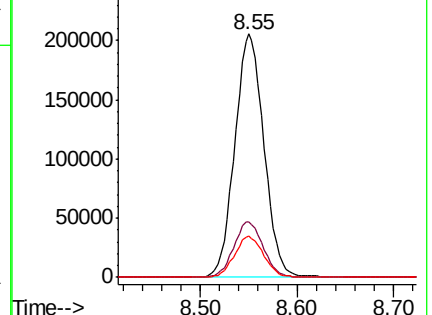
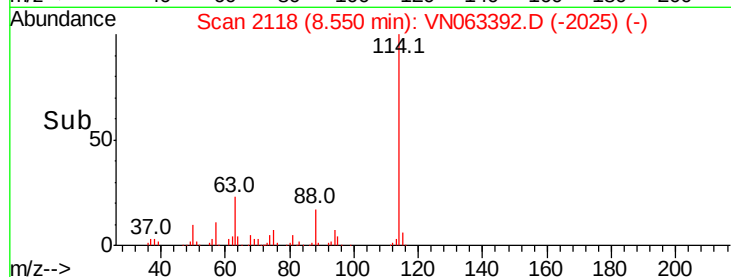
88 16.8 0.0 33.2



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: 46.095 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

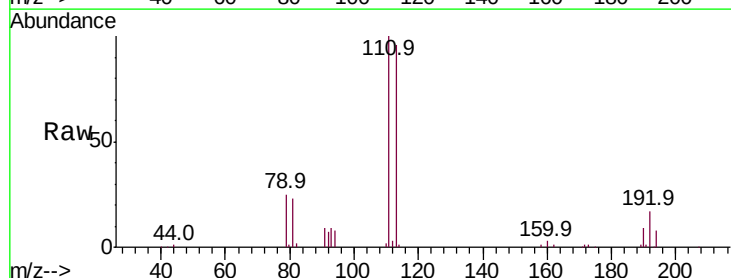
Tgt Ion:113 Resp: 137121

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

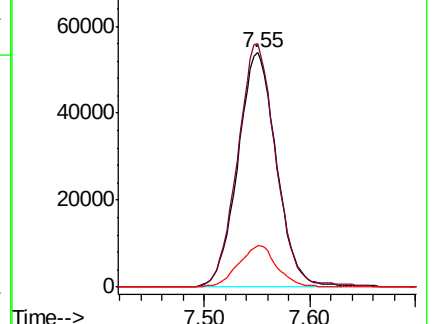
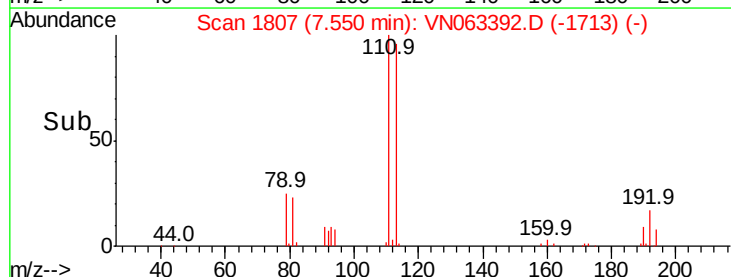
192 17.6 13.9 20.9

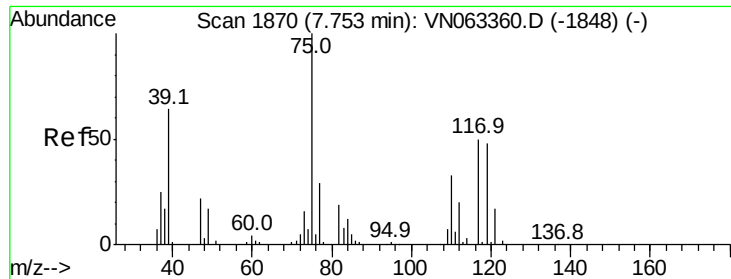


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.729 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#19

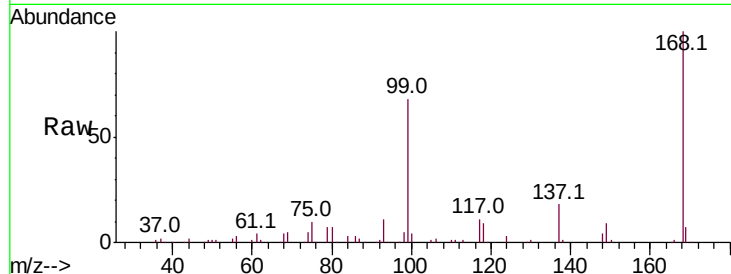
Tot Ion: 75 Resp: 21651

Ion Ratio Lower Upper

75 100

110 8.2 16.5 49.5#

77 0.0 24.6 36.8#

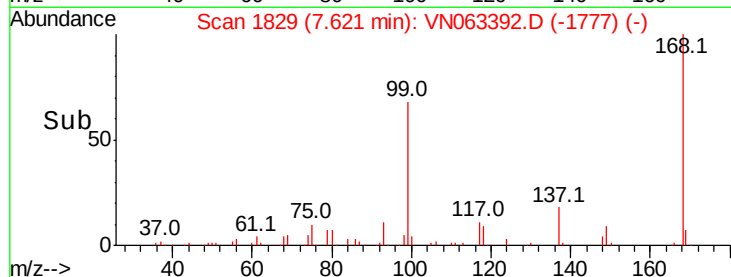


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)

Time-->

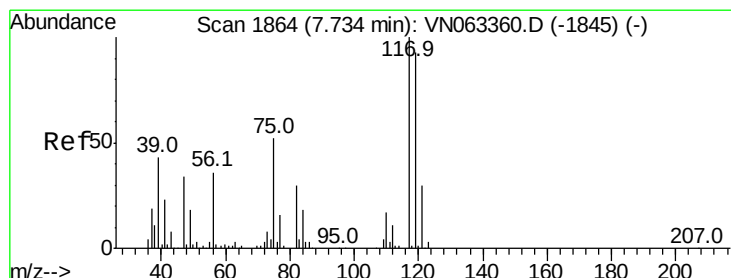


Abundance Ion 74.90 (74.60 to 75.60): VN063392.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063392.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063392.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.380 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

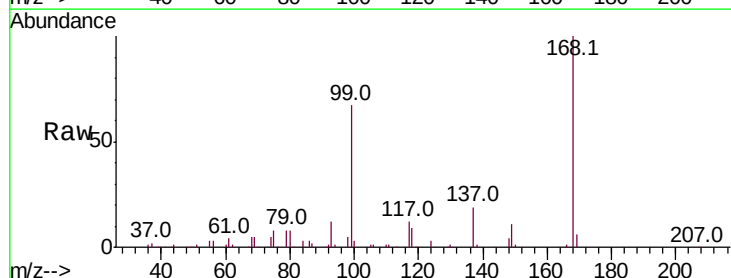
Tgt Ion: 117 Resp: 25142

Ion Ratio Lower Upper

117 100

119 3.6 74.5 111.7#

121 0.0 24.1 36.1#

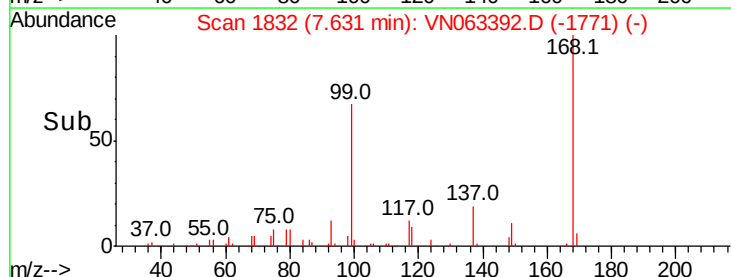


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

Time-->

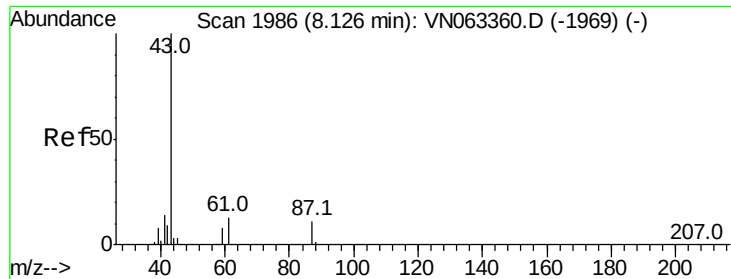


Abundance Ion 116.80 (116.50 to 117.50): VN063392.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063392.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063392.D (-1771) (-)

Time-->



#43

Isopropyl Acetate

Concen: 10.522 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#19

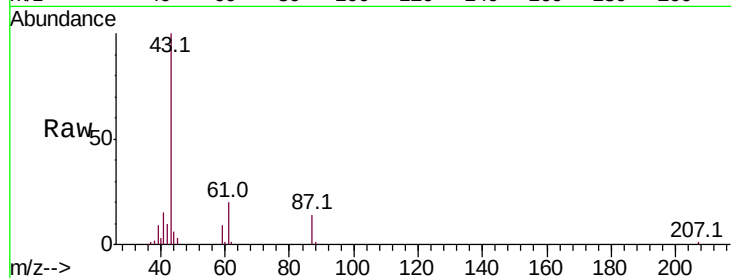
Tot Ion: 43 Resp: 84530

Ion Ratio Lower Upper

43 100

61 18.9 14.2 21.2

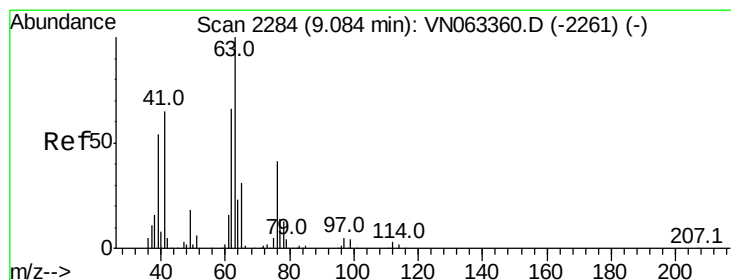
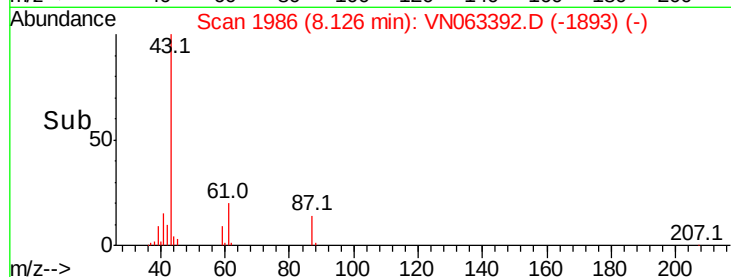
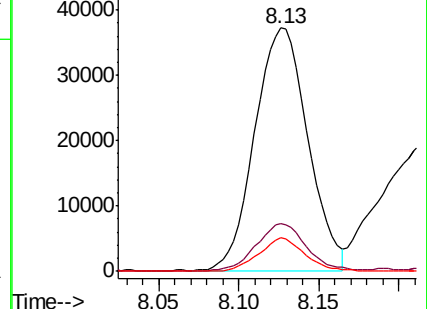
87 11.9 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.427 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063392.D

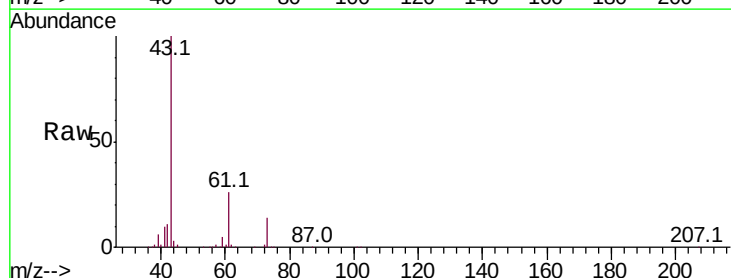
Acq: 17 Sep 2020 3:03

Tgt Ion: 63 Resp: 1518

Ion Ratio Lower Upper

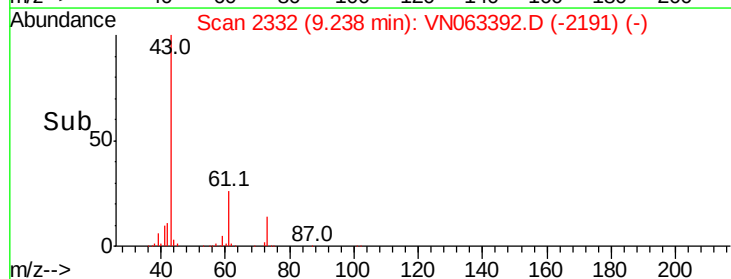
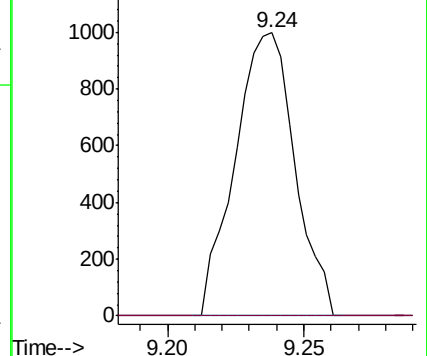
63 100

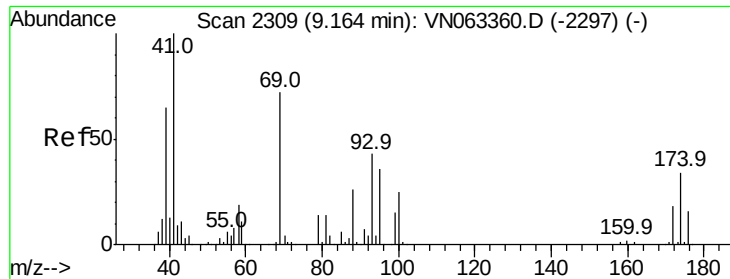
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 37.168 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#19

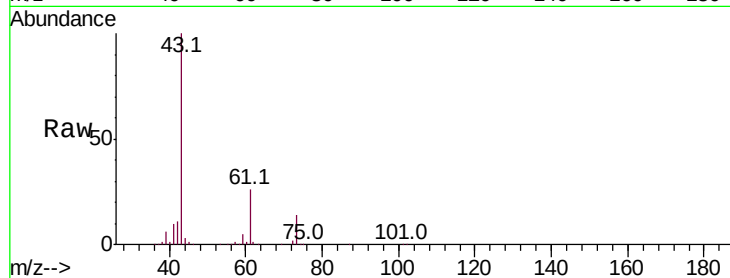
Tot Ion: 41 Resp: 146705

Ion Ratio Lower Upper

41 100

69 0.1 59.3 88.9#

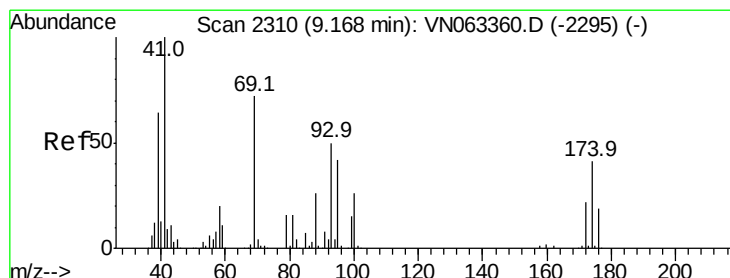
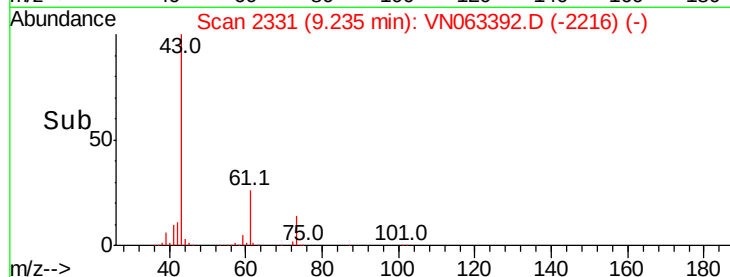
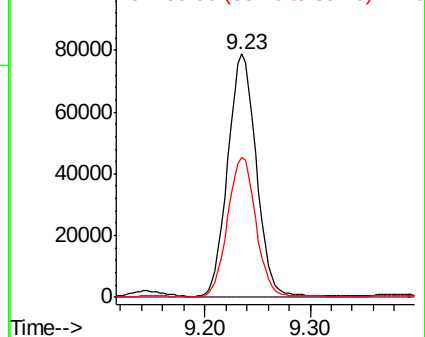
39 56.8 52.9 79.3



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC



#49

1,4-Dioxane

Concen: 1.253 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

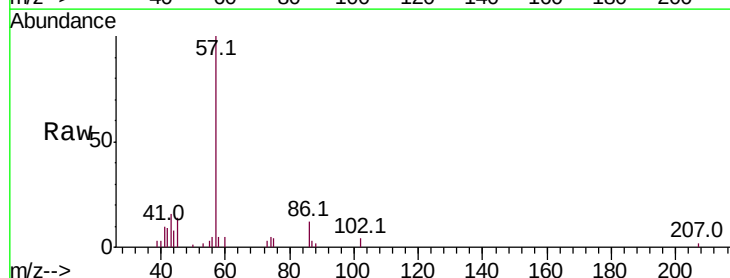
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 0.0 32.6 49.0#

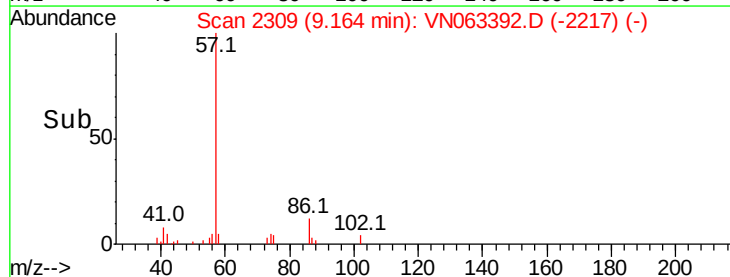
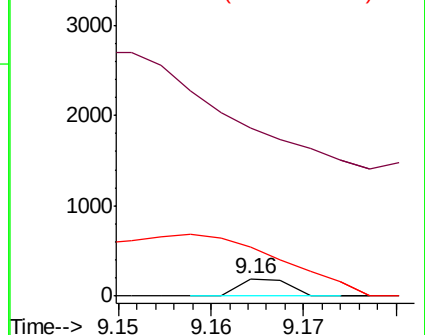
58 1902.8 60.0 90.0#

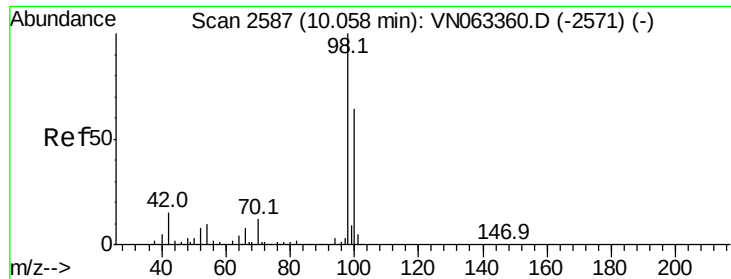


Abundance Ion 88.00 (87.70 to 88.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 49.422 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

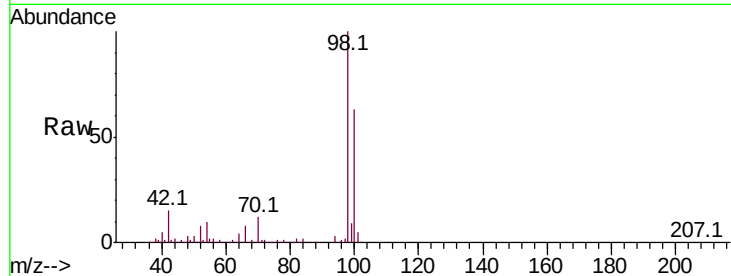
PB131646ZHE#19

Tot Ion: 98 Resp: 552812

Ion Ratio Lower Upper

98 100

100 63.0 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) (-)

10.06

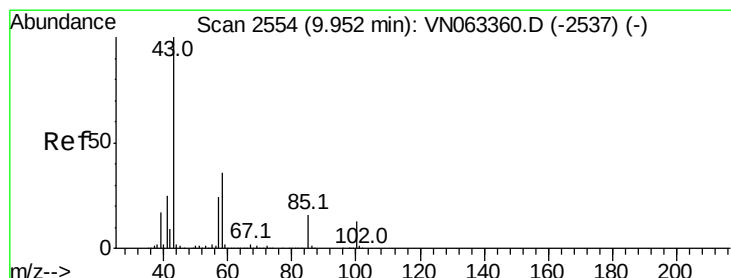
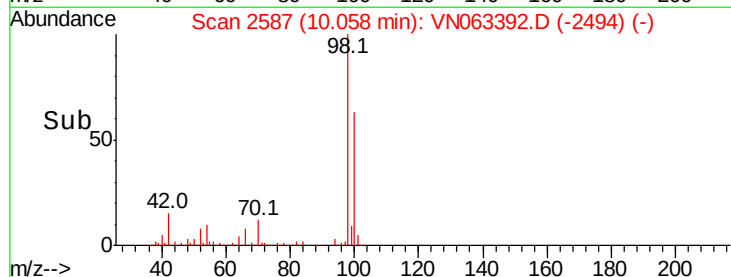
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.202 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063392.D

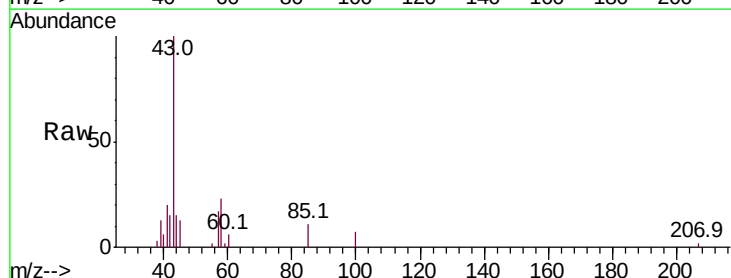
Acq: 17 Sep 2020 3:03

Tgt Ion: 43 Resp: 9904

Ion Ratio Lower Upper

43 100

58 32.6 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) (-)

20000

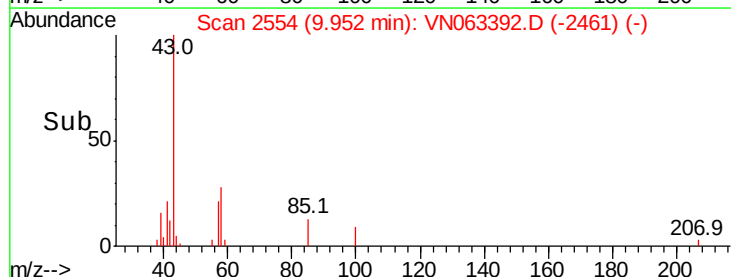
15000

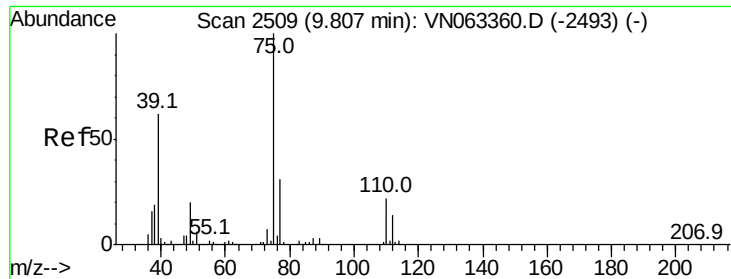
10000

5000

0

Time-->

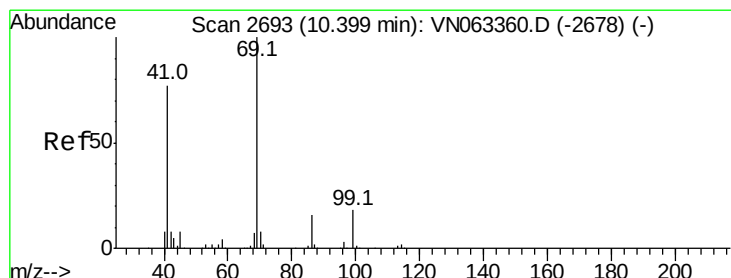
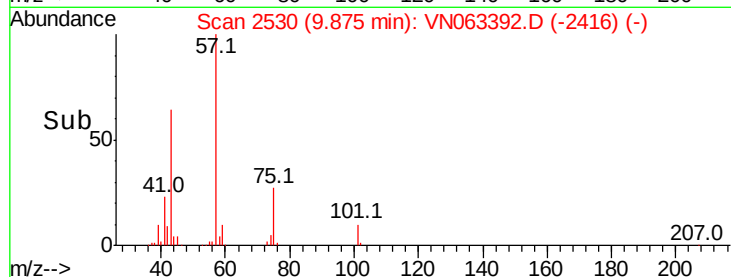
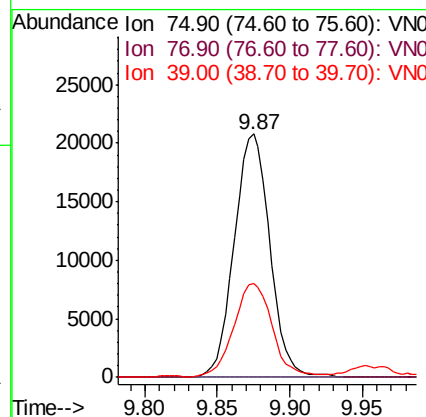
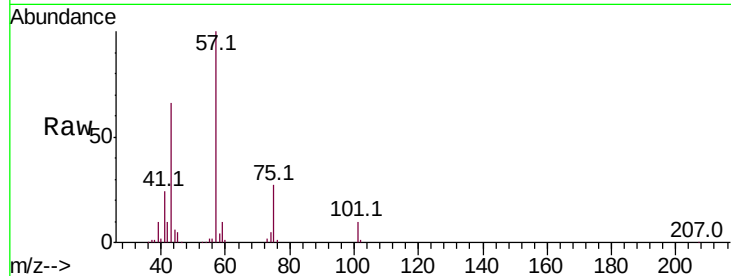




#54
 cis-1,3-Dichloropropene
 Concen: 6.210 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063392.D
 Acq: 17 Sep 2020 3:03

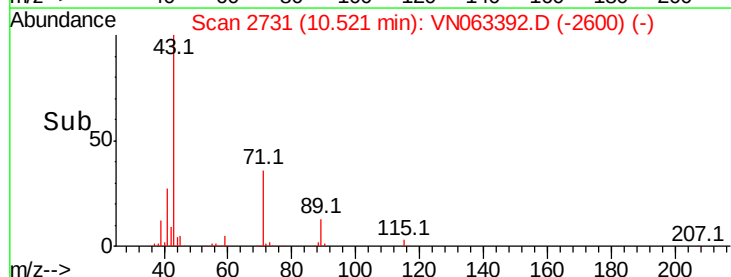
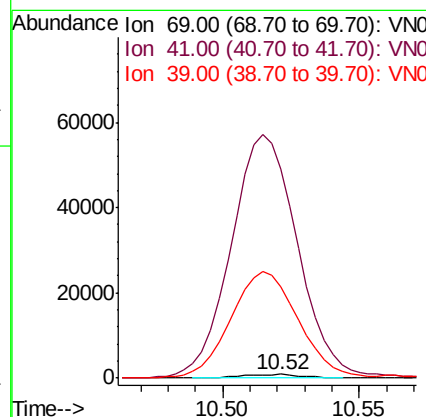
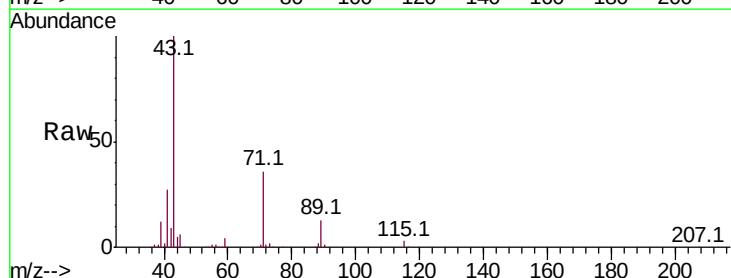
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#19

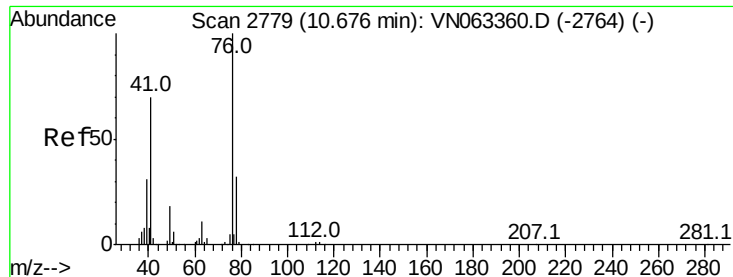
Tot Ion: 75 Resp: 35537
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 38.6 49.8 74.8#



#56
 Ethyl methacrylate
 Concen: 0.273 ug/l
 RT: 10.52 min Scan# 2731
 Delta R.T. 0.12 min
 Lab File: VN063392.D
 Acq: 17 Sep 2020 3:03

Tgt Ion: 69 Resp: 1332
 Ion Ratio Lower Upper
 69 100
 41 7298.6 61.0 91.6#
 39 3241.6 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 1.214 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

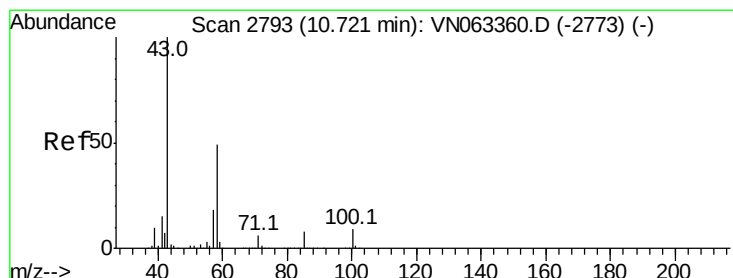
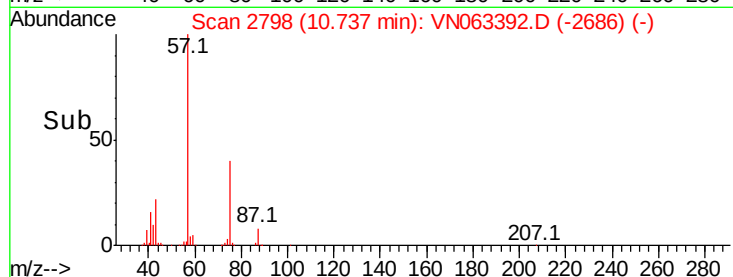
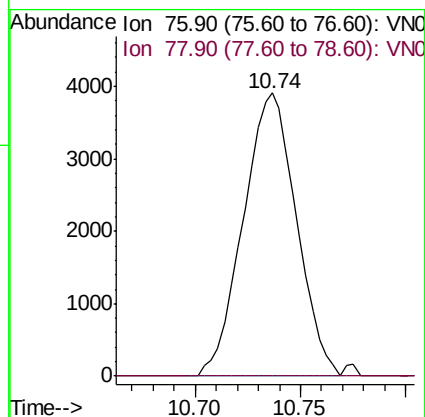
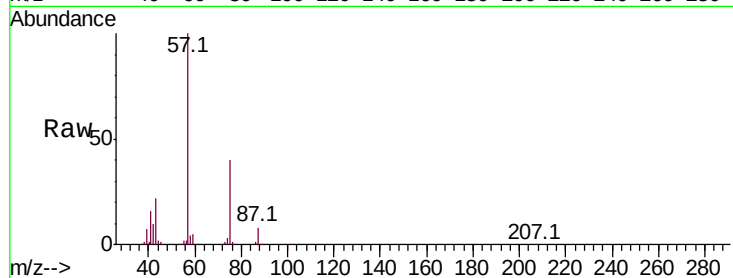
PB131646ZHE#19

Tot Ion: 76 Resp: 6834

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 30.084 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063392.D

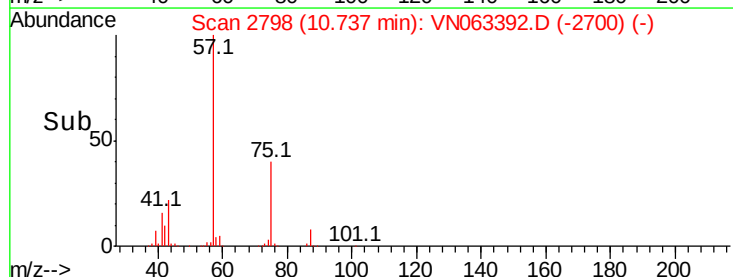
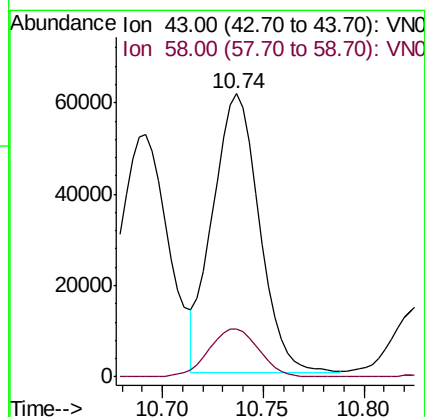
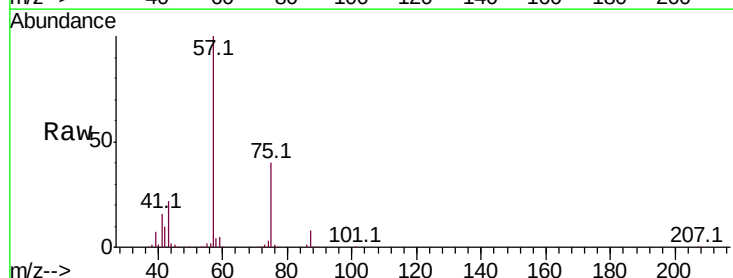
Acq: 17 Sep 2020 3:03

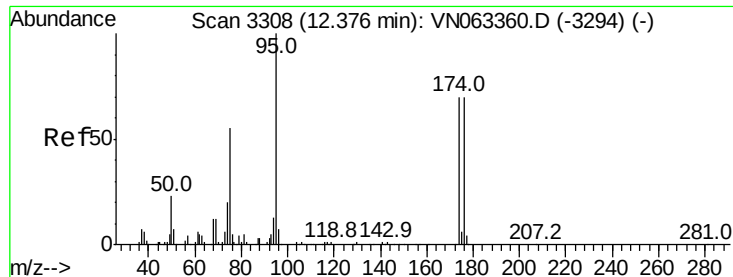
Tgt Ion: 43 Resp: 98026

Ion Ratio Lower Upper

43 100

58 18.5 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.646 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#19

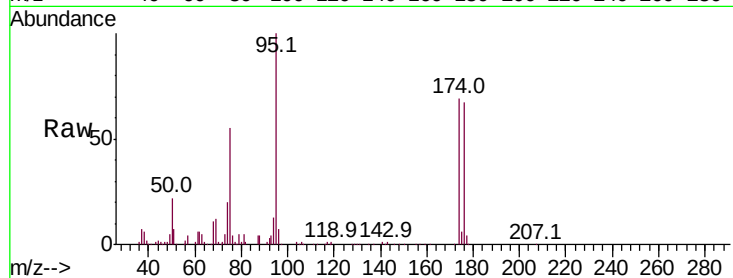
Tot Ion: 95 Resp: 224070

Ion Ratio Lower Upper

95 100

174 69.7 0.0 140.8

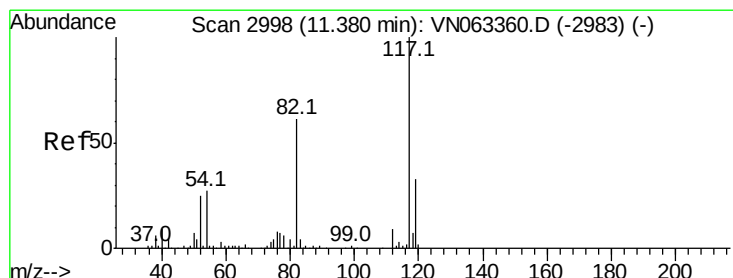
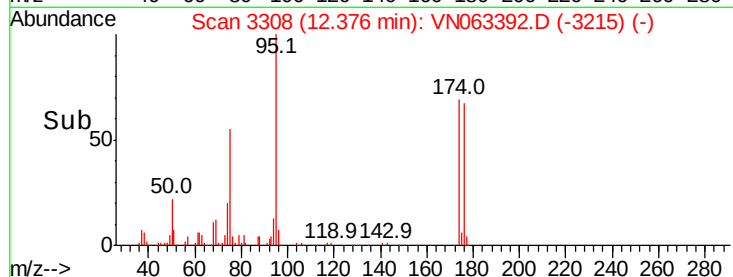
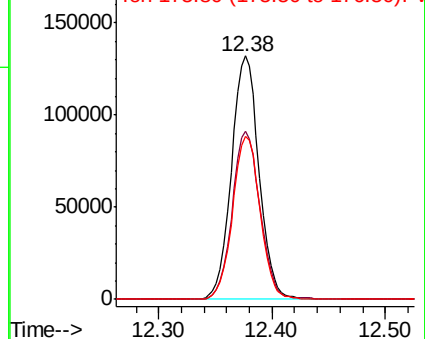
176 66.8 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063392.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN063392.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN063392.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

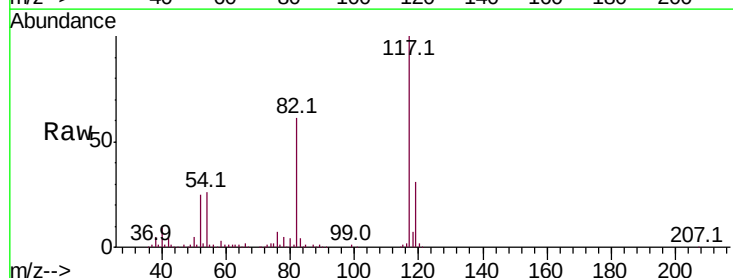
Tgt Ion: 117 Resp: 424935

Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

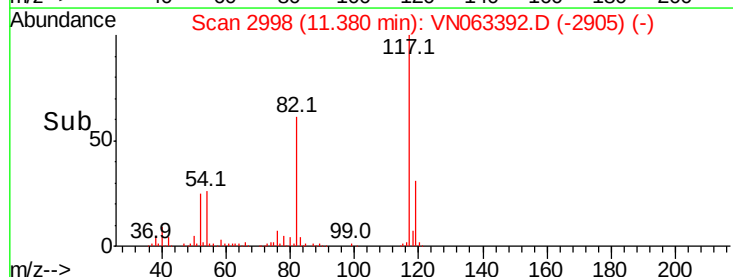
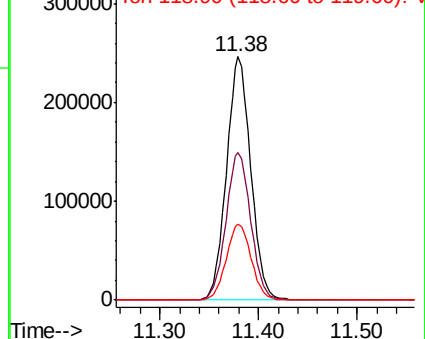
119 31.2 26.2 39.4

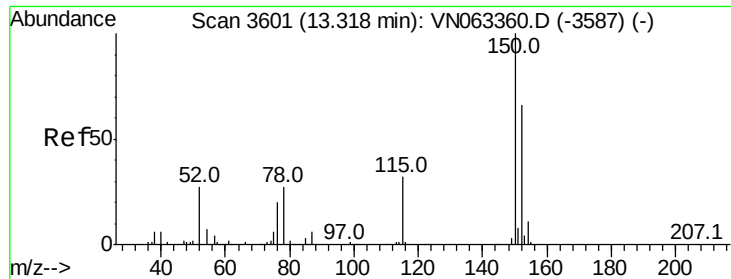


Abundance Ion 116.90 (116.60 to 117.60): VN063392.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063392.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063392.D (-2905) (-)

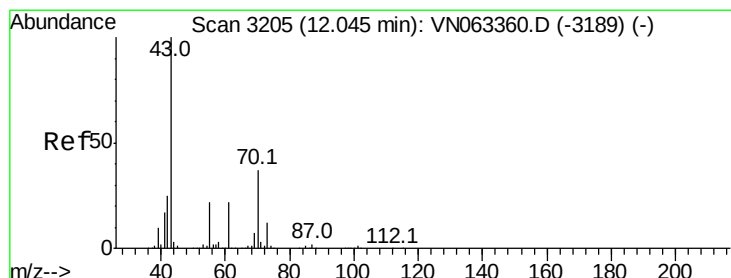
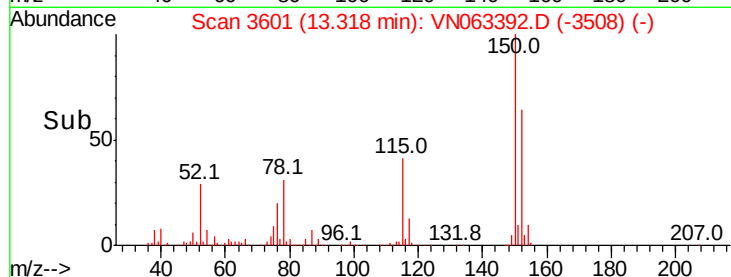
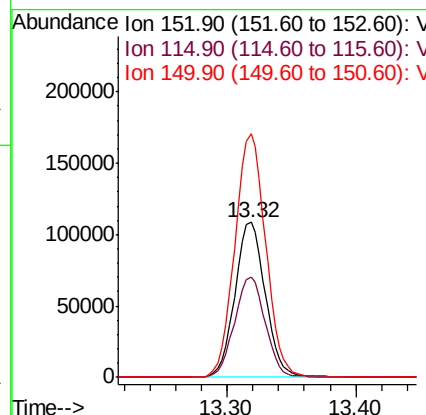
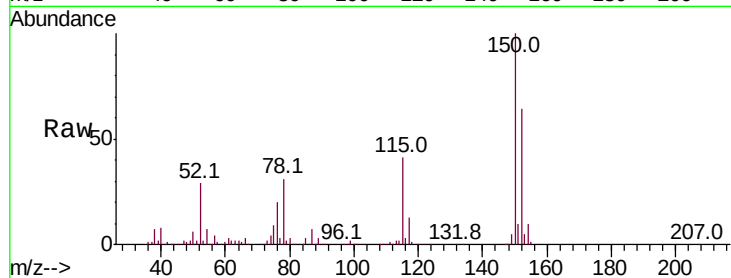




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VN063392.D
 Acq: 17 Sep 2020 3:03

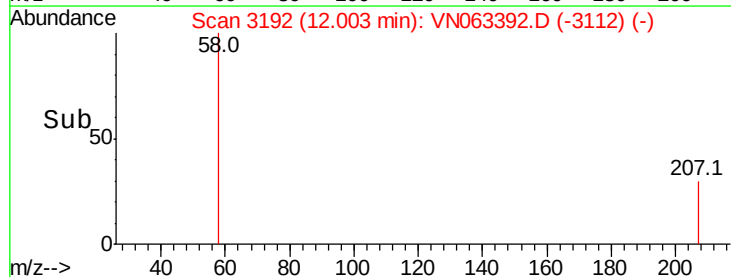
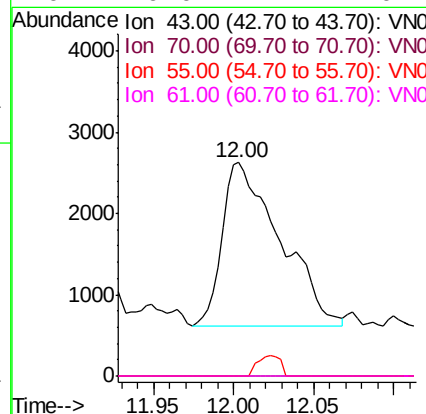
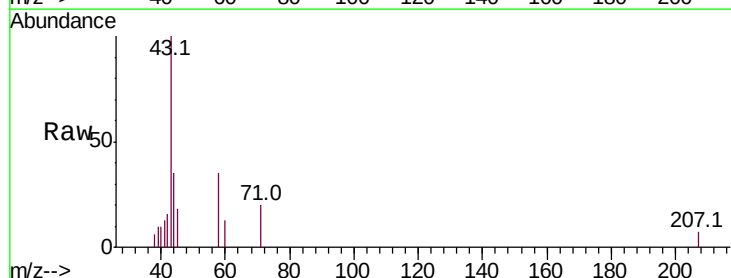
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#19

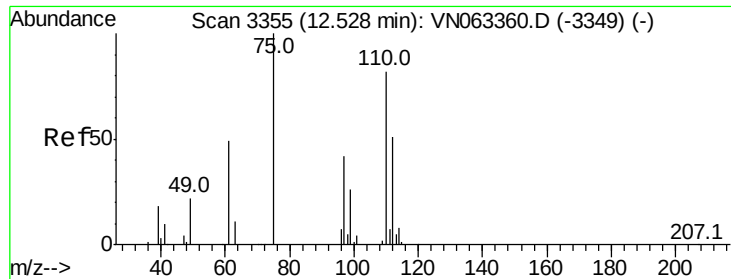
Tot Ion:152 Resp: 177577
 Ion Ratio Lower Upper
 152 100
 115 65.6 32.2 96.6
 150 160.0 0.0 343.4



#74
 N-ethyl acetate
 Concen: 0.740 ug/l
 RT: 12.00 min Scan# 3192
 Delta R.T. -0.04 min
 Lab File: VN063392.D
 Acq: 17 Sep 2020 3:03

Tgt Ion: 43 Resp: 4988
 Ion Ratio Lower Upper
 43 100
 70 0.0 29.6 44.4#
 55 4.9 17.7 26.5#
 61 0.0 17.4 26.2#

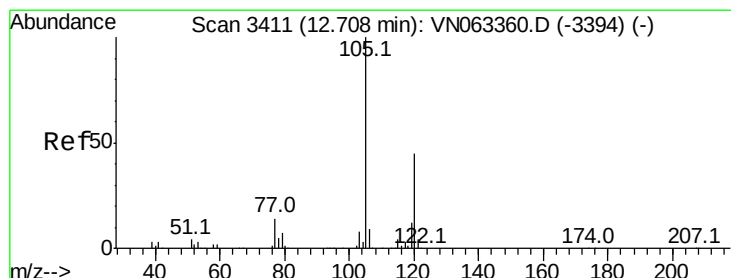
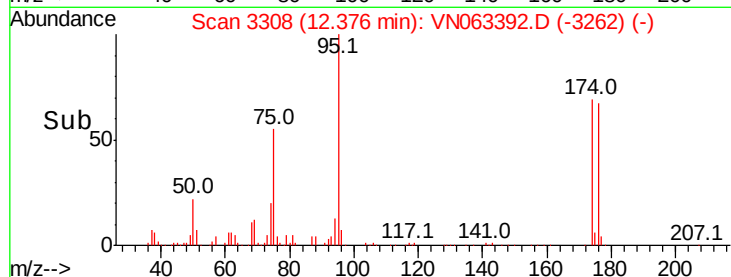
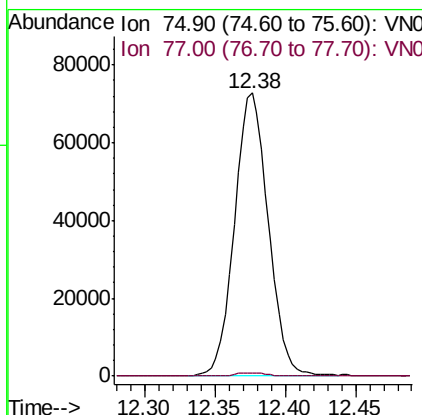
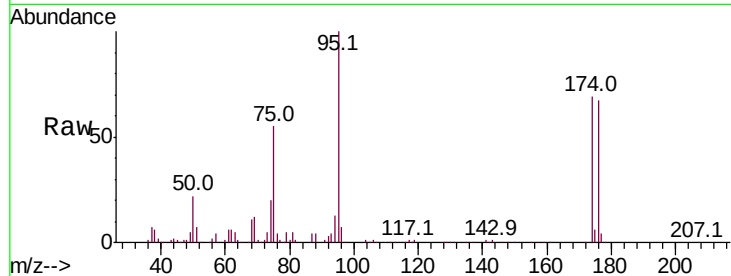




#76
 1,2,3-Trichloropropane
 Concen: 27.846 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063392.D
 Acq: 17 Sep 2020 3:03

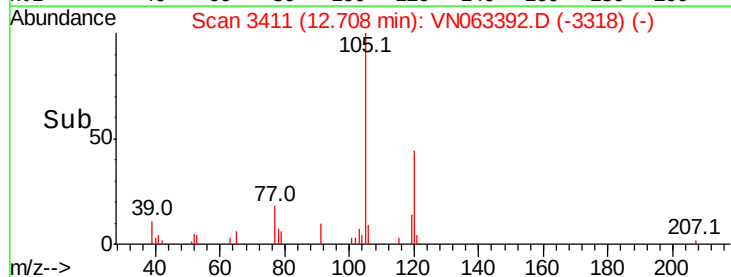
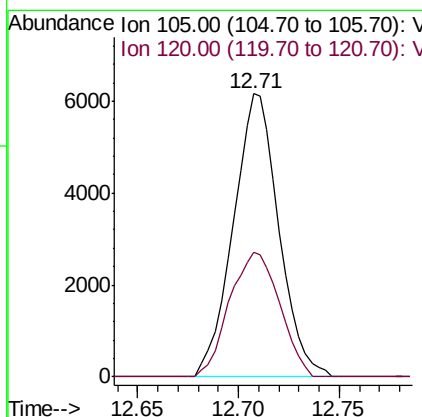
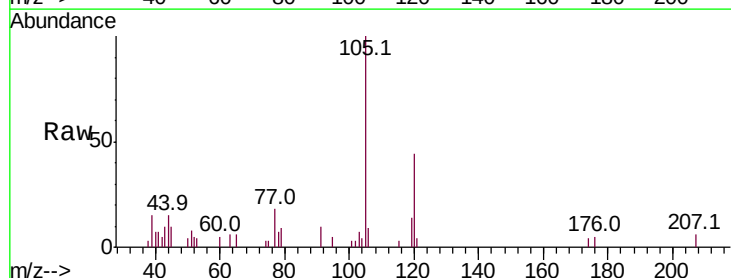
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#19

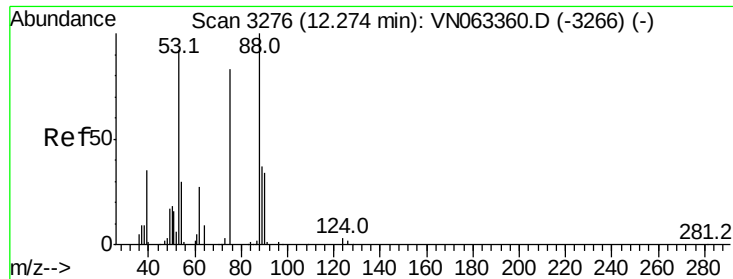
Tot Ion: 75 Resp: 122389
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.819 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN063392.D
 Acq: 17 Sep 2020 3:03

Tgt Ion: 105 Resp: 9718
 Ion Ratio Lower Upper
 105 100
 120 48.5 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 76.342 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063392.D

Acq: 17 Sep 2020 3:03

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#19

Tot Ion: 75 Resp: 122389

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

