

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063784.D
 Acq On : 1 Oct 2020 20:09
 Operator : JC/MD
 Sample : PB132009ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#06

Quant Time: Oct 02 02:17:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	209702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	406177	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	413089	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171188	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	181284	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
35) Dibromofluoromethane	7.55	113	131395	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
50) Toluene-d8	10.06	98	509455	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	12.38	95	200544	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	

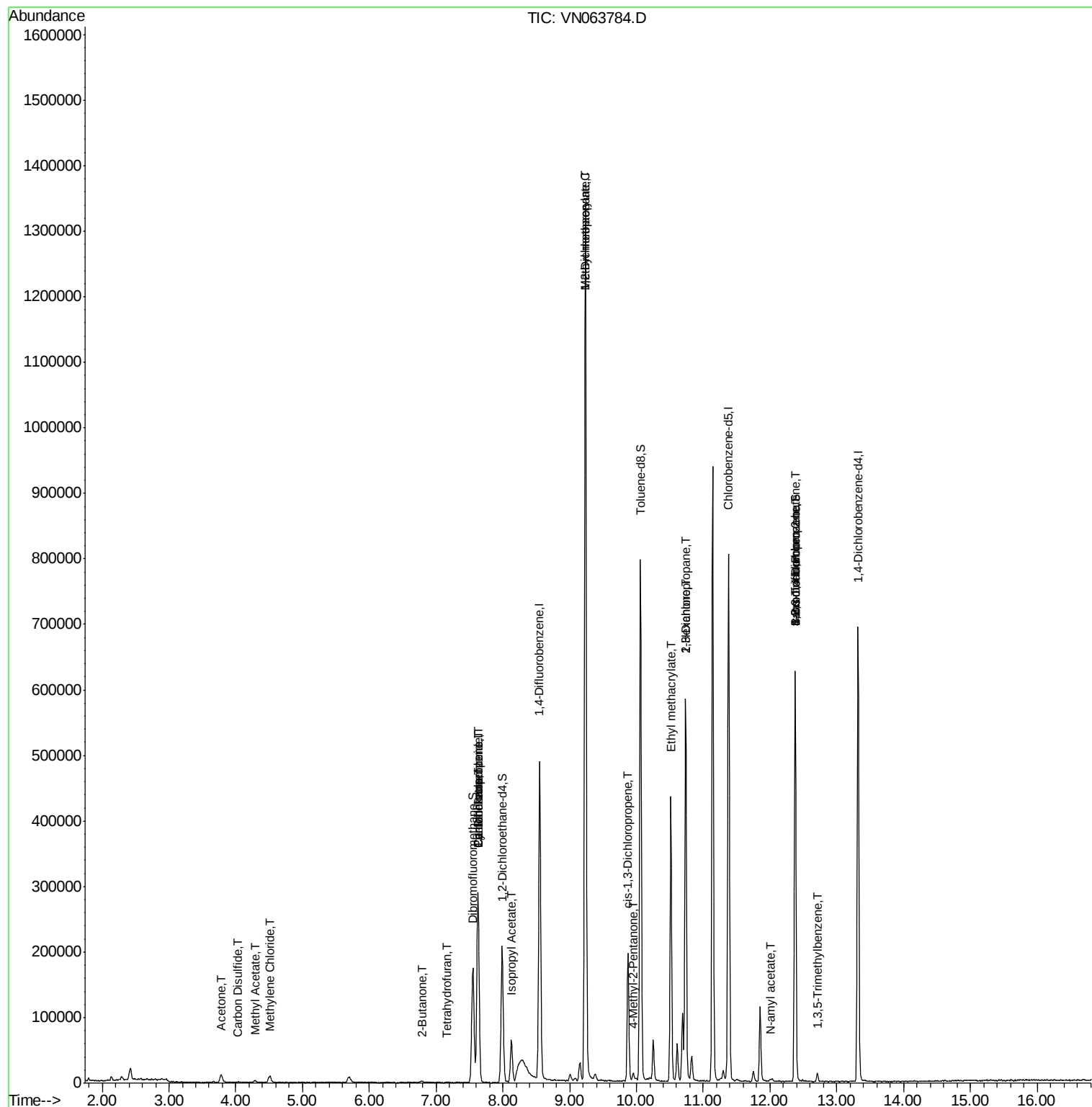
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	22345	20.952	ug/l	97
17) Carbon Disulfide	4.02	76	30	0.706	ug/l #	76
18) Methyl Acetate	4.29	43	4650	1.679	ug/l	99
20) Methylene Chloride	4.51	84	6973	2.947	ug/l	92
25) 2-Butanone	6.79	43	1748	1.156	ug/l #	89
29) Tetrahydrofuran	7.17	42	386	0.381	ug/l #	53
31) Cyclohexane	7.63	56	6333	1.575	ug/l #	20
36) 1,1-Dichloropropene	7.63	75	18864	4.584	ug/l #	48
38) Carbon Tetrachloride	7.63	117	23581	5.110	ug/l #	15
43) Isopropyl Acetate	8.13	43	77577	11.504	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1491	0.470	ug/l #	44
48) Methyl methacrylate	9.23	41	140912	42.295	ug/l #	47
51) 4-Methyl-2-Pentanone	9.96	43	7368	1.862	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	31512	6.229	ug/l #	64
56) Ethyl methacrylate	10.52	69	2015	0.488	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5516	1.118	ug/l #	43
59) 2-Hexanone	10.74	43	92869	31.591	ug/l #	54
71) Bromoform	12.38	173	1945	0.783	ug/l #	1
74) N-amyl acetate	12.01	43	1835	2.518	ug/l #	57
76) 1,2,3-Trichloropropane	12.38	75	119934	31.782	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6681	0.638	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	119934	91.537	ug/l #	6

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

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QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

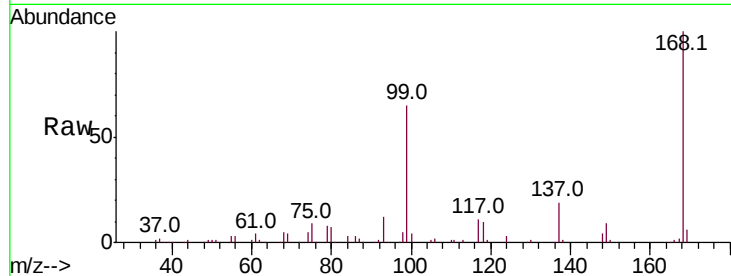
PB132009ZHE#06

Tot Ion:168 Resp: 209702

Ion Ratio Lower Upper

168 100

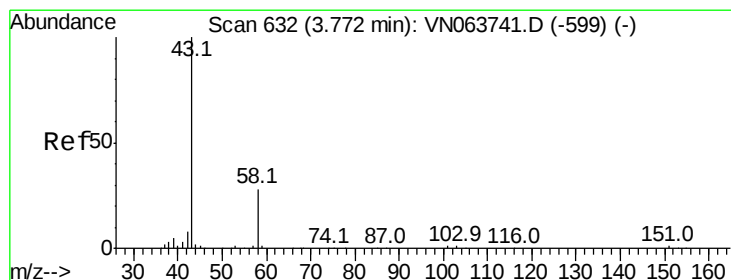
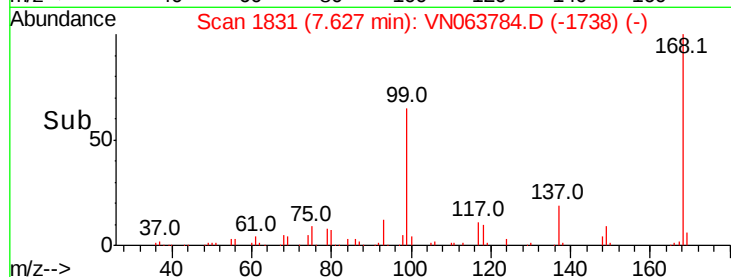
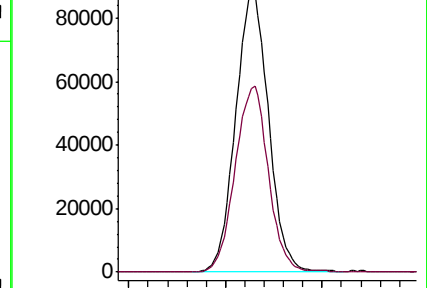
99 64.9 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63



#16

Acetone

Concen: 20.952 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063784.D

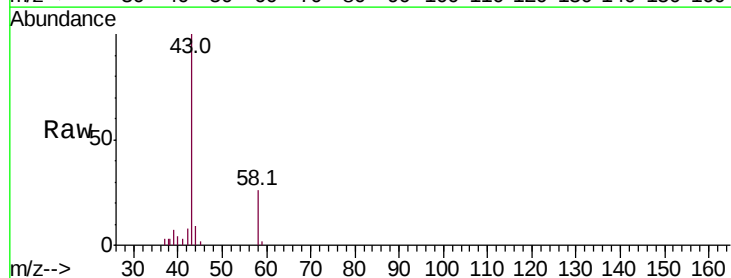
Acq: 1 Oct 2020 20:09

Tgt Ion: 43 Resp: 22345

Ion Ratio Lower Upper

43 100

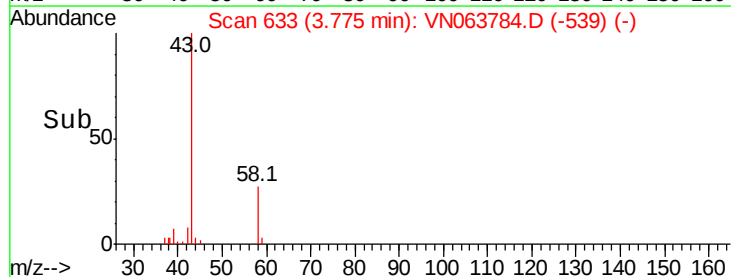
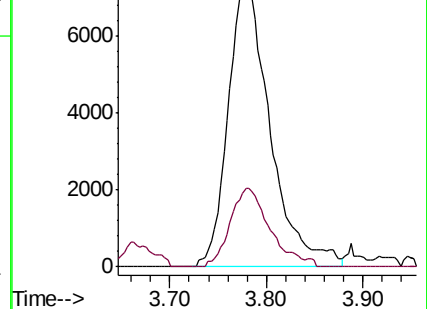
58 26.1 22.3 33.5

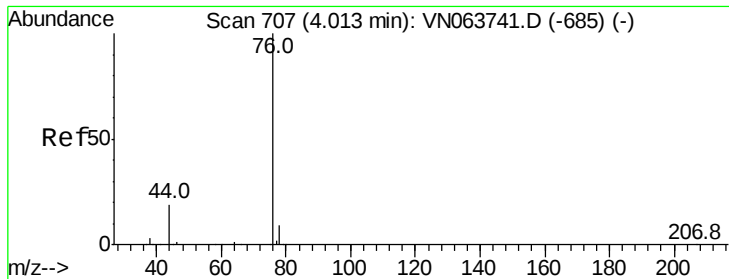


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

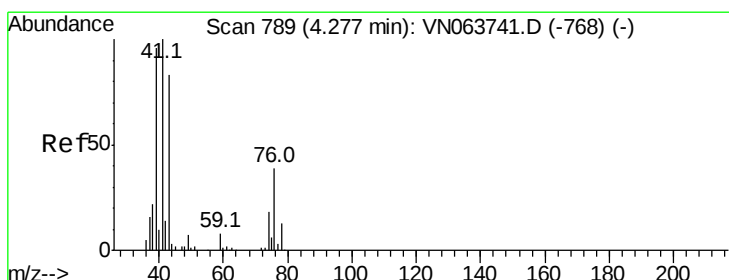
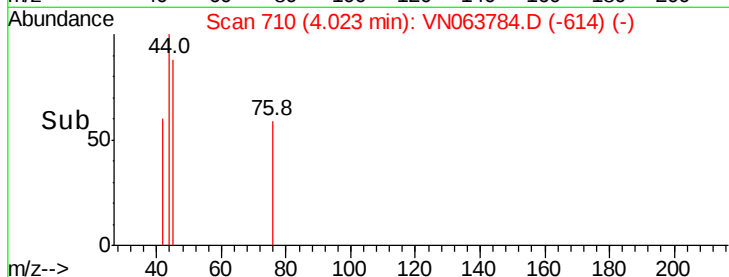
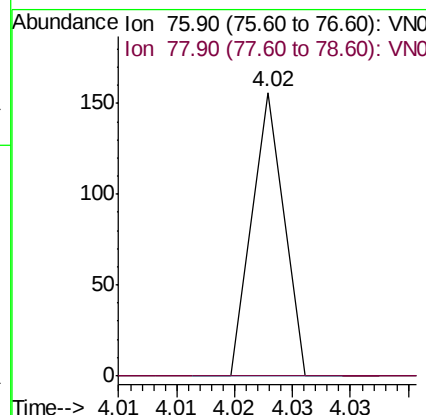
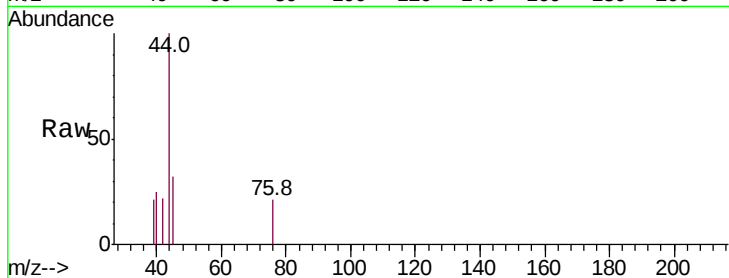




#17
Carbon Disulfide
Concen: 0.706 ug/l
RT: 4.02 min Scan# 710
Delta R.T. 0.01 min
Lab File: VN063784.D
Acq: 1 Oct 2020 20:09

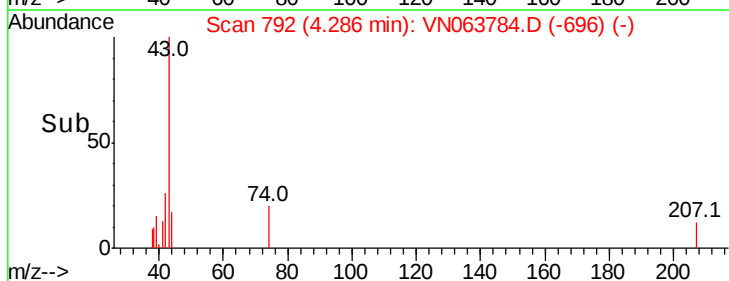
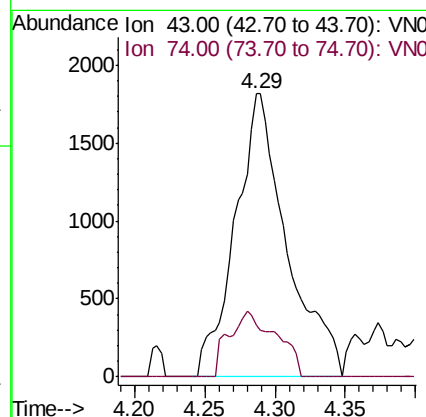
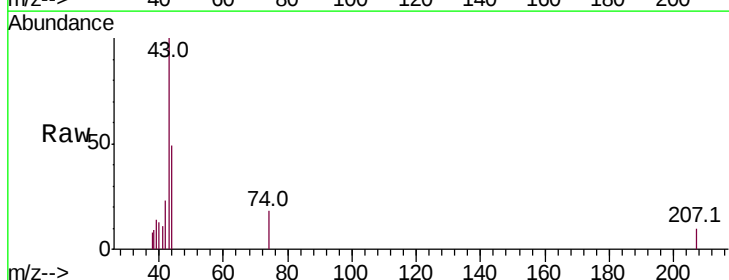
Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#06

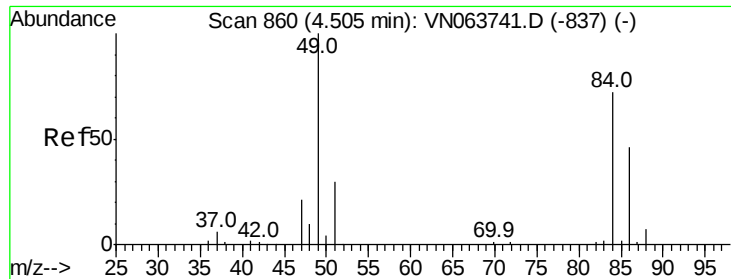
Tot Ion: 76 Resp: 30
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 1.679 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063784.D
Acq: 1 Oct 2020 20:09

Tgt Ion: 43 Resp: 4650
Ion Ratio Lower Upper
43 100
74 21.2 17.4 26.2

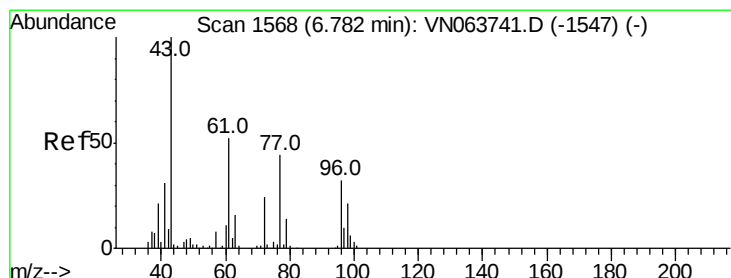
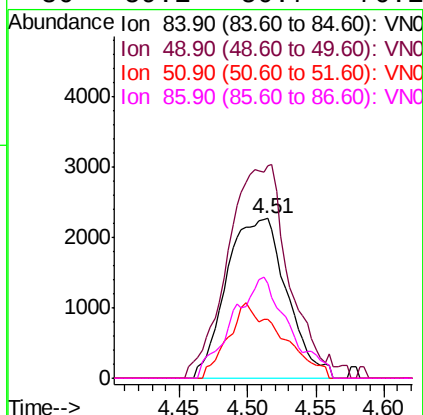
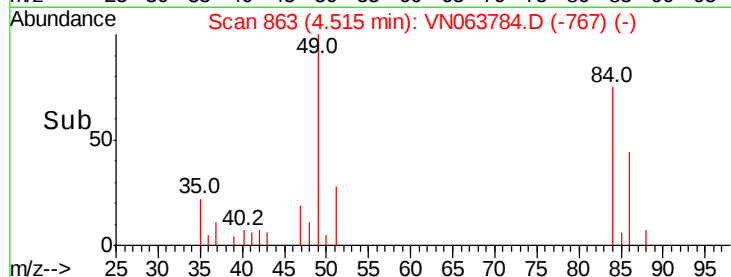
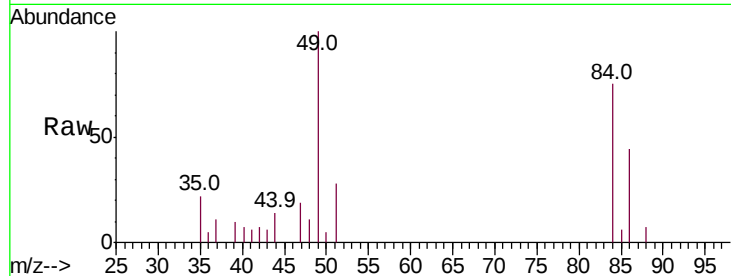




#20
Methvlene Chloride
Concen: 2.947 ug/l
RT: 4.51 min Scan# 863
Delta R.T. 0.01 min
Lab File: VN063784.D
Acq: 1 Oct 2020 20:09

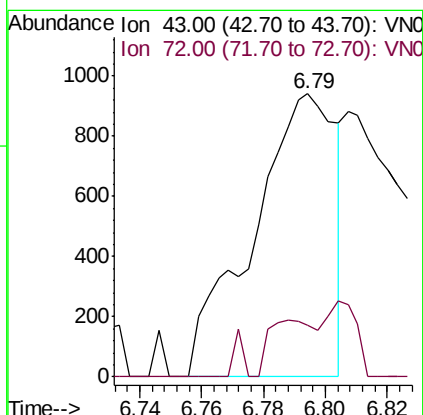
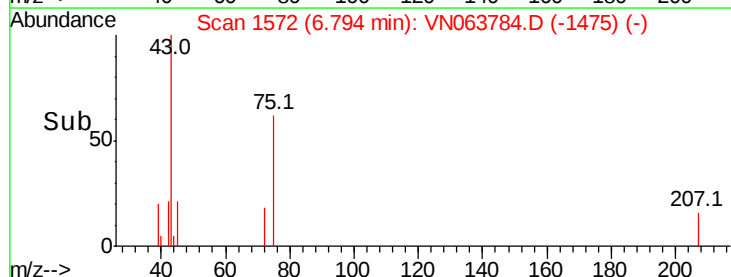
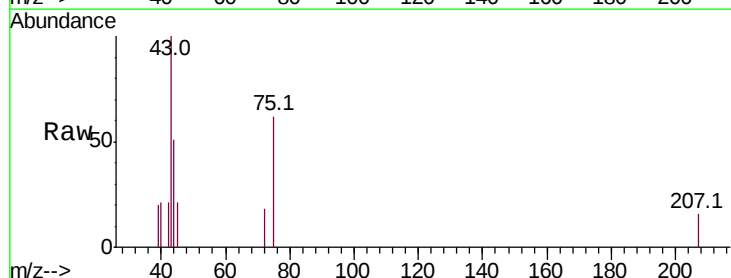
Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#06

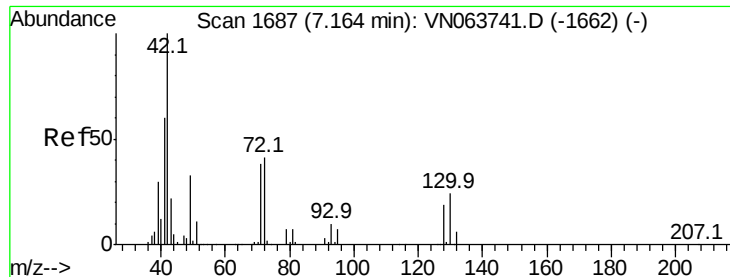
Tot Ion:	84	Resp:	6973
Ion	Ratio	Lower	Upper
84	100		
49	125.7	110.4	165.6
51	36.9	33.3	49.9
86	59.1	50.7	76.1



#25
2-Butanone
Concen: 1.156 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN063784.D
Acq: 1 Oct 2020 20:09

Tgt Ion:	43	Resp:	1748
Ion	Ratio	Lower	Upper
43	100		
72	18.5	19.3	28.9#





#29

Tetrahydrofuran

Concen: 0.381 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#06

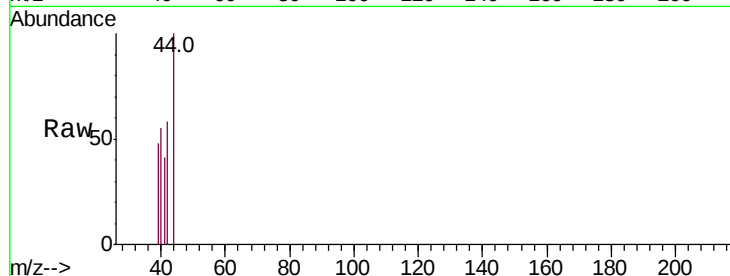
Tot Ion: 42 Resp: 386

Ion Ratio Lower Upper

42 100

72 21.5 32.8 49.2#

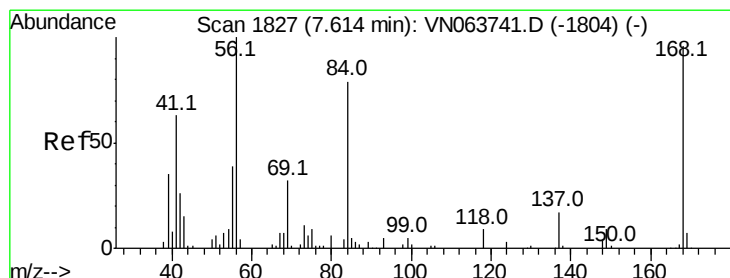
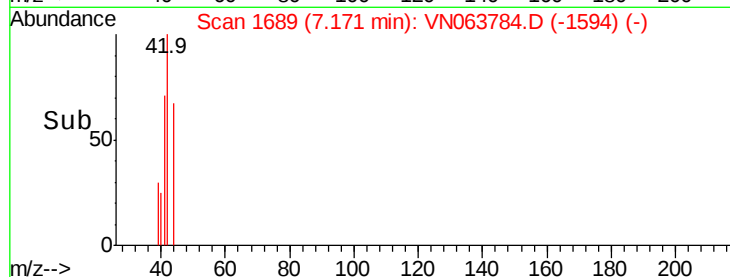
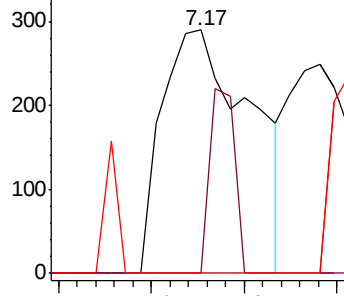
71 0.0 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.575 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

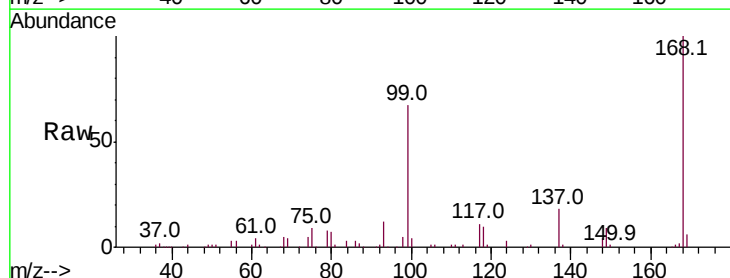
Tgt Ion: 56 Resp: 6333

Ion Ratio Lower Upper

56 100

69 140.5 25.4 38.2#

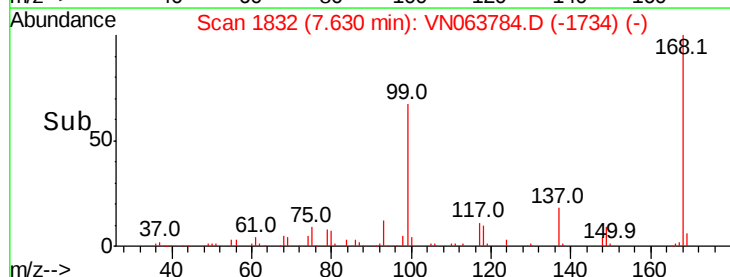
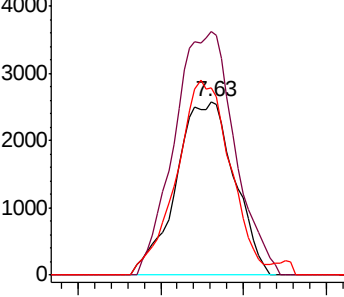
84 108.4 63.3 94.9#

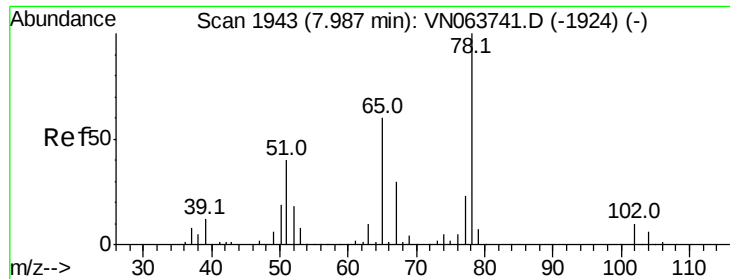


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO





#33

1,2-Dichloroethane-d4

Concen: 52.327 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

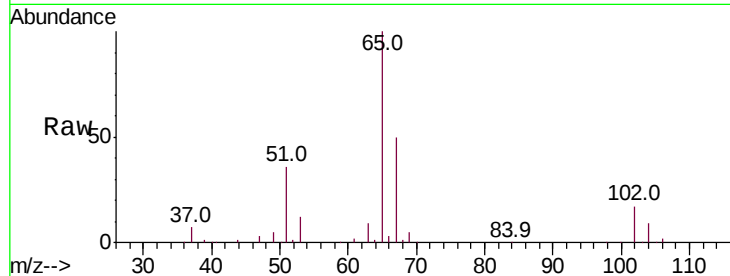
PB132009ZHE#06

Tot Ion: 65 Resp: 181284

Ion Ratio Lower Upper

65 100

67 50.3 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063784.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063784.D (-1850) (-)

7.99

80000

60000

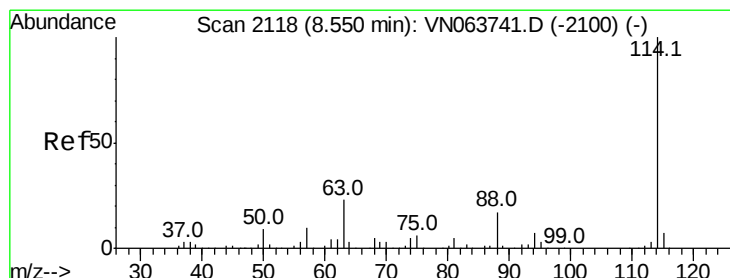
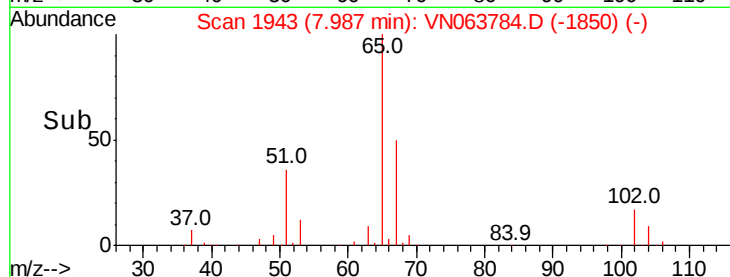
40000

20000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

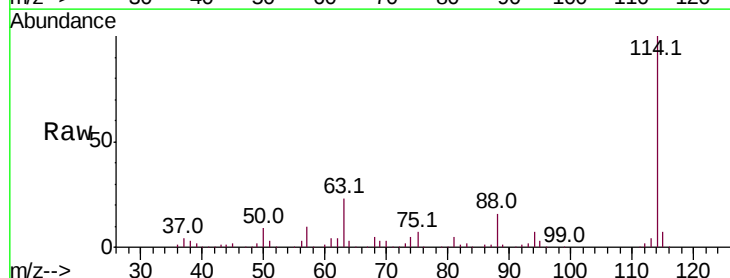
Tgt Ion: 114 Resp: 406177

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.0

88 16.3 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): VN063784.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN063784.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN063784.D (-2025) (-)

8.55

250000

200000

150000

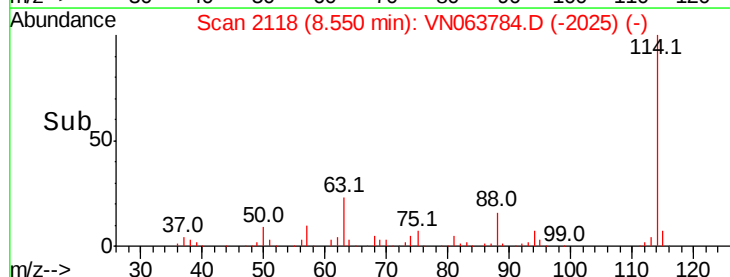
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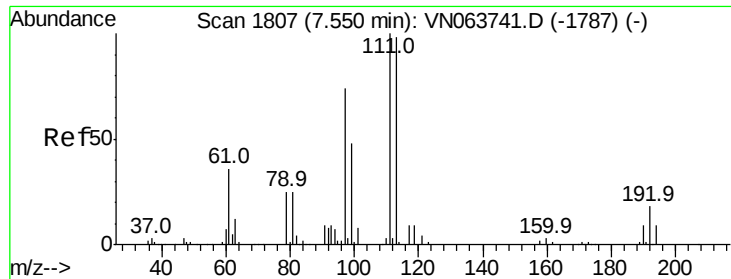
50000

0

8.50 8.60

Time-->

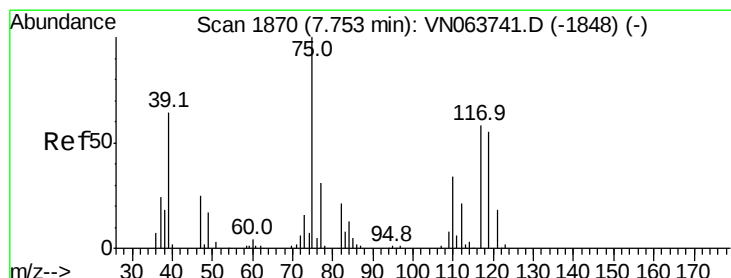
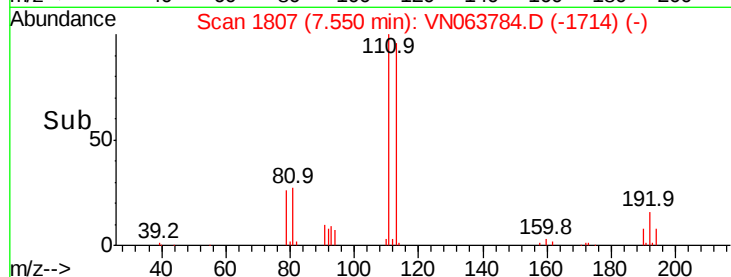
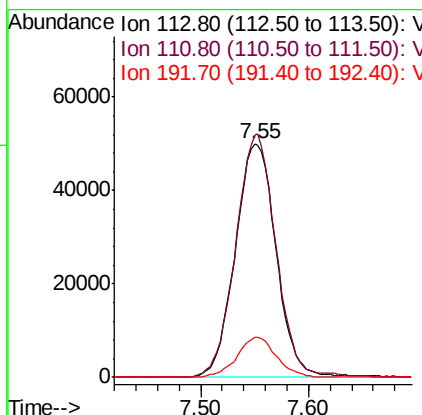
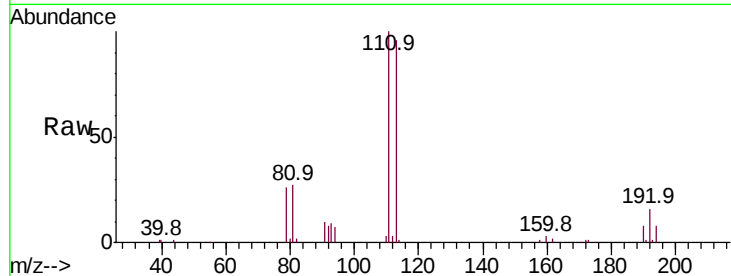




#35
 Dibromofluoromethane
 Concen: 46.621 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063784.D
 Acq: 1 Oct 2020 20:09

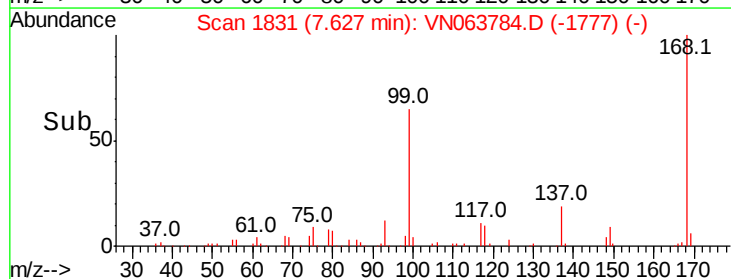
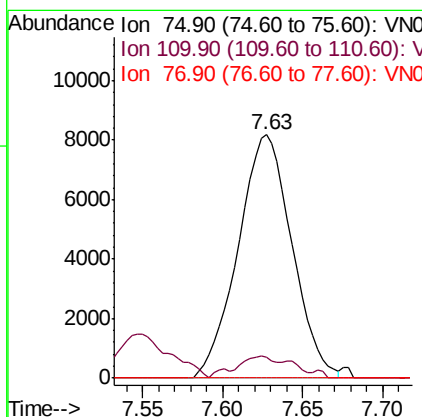
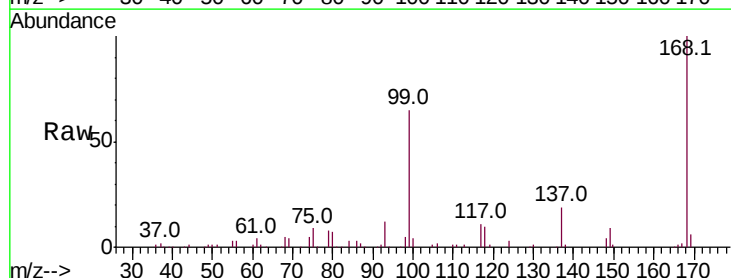
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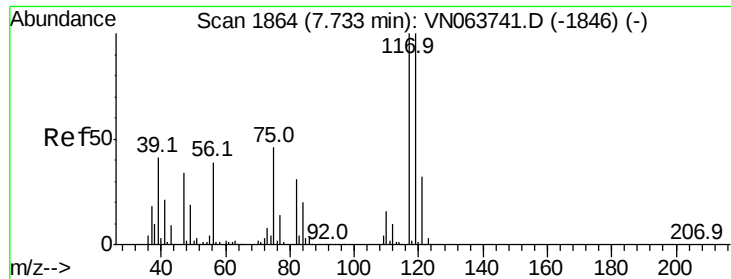
Tot Ion:113 Resp: 131395
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.8 122.8
 192 16.7 14.2 21.2



#36
 1,1-Dichloropropene
 Concen: 4.584 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063784.D
 Acq: 1 Oct 2020 20:09

Tgt Ion: 75 Resp: 18864
 Ion Ratio Lower Upper
 75 100
 110 6.4 16.9 50.6#
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.110 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#06

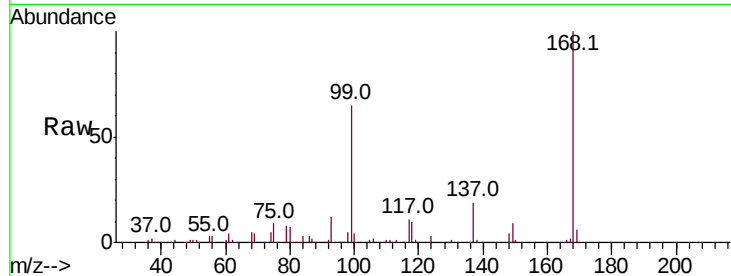
Tot Ion:117 Resp: 23581

Ion Ratio Lower Upper

117 100

119 6.6 80.1 120.1#

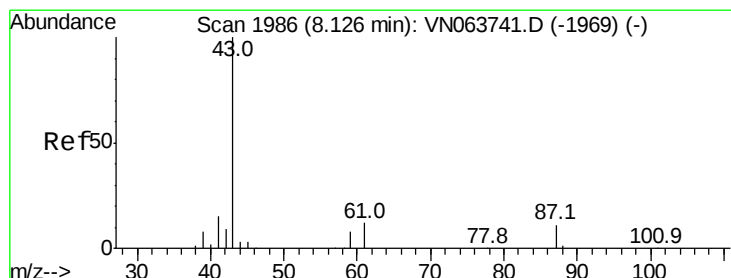
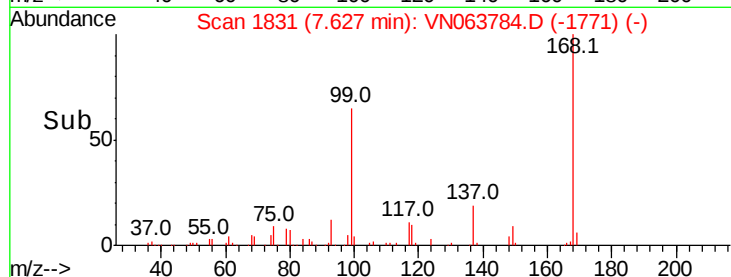
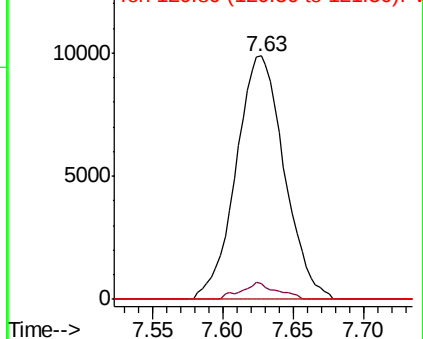
121 0.0 25.7 38.5#



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: 11.504 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

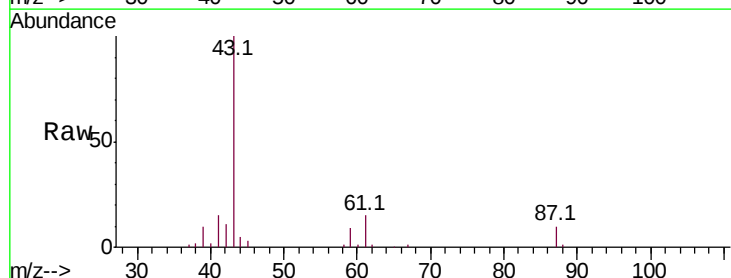
Tgt Ion: 43 Resp: 77577

Ion Ratio Lower Upper

43 100

61 16.8 14.2 21.4

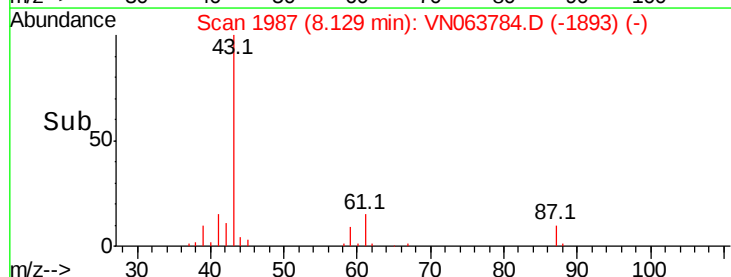
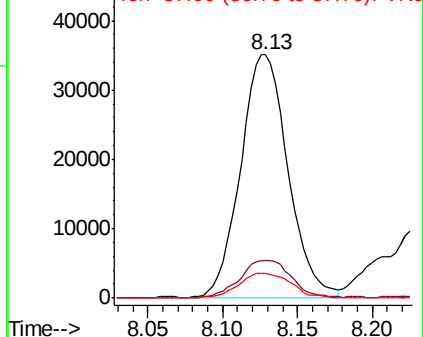
87 11.3 9.0 13.6

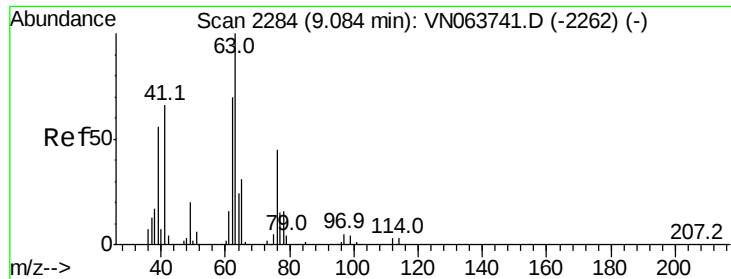


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.470 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

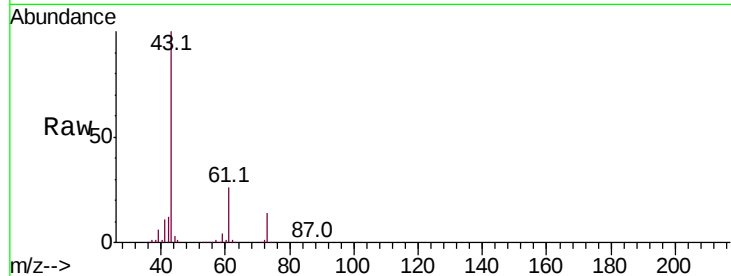
PB132009ZHE#06

Tot Ion: 63 Resp: 1491

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

600

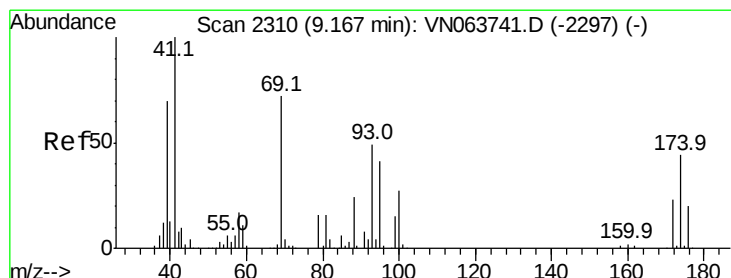
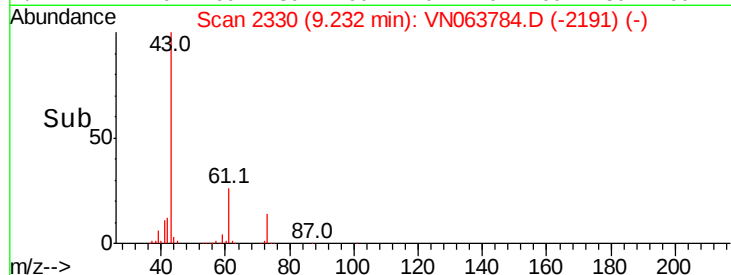
400

200

0

Time-->

9.20 9.22 9.24 9.26



#48

Methyl methacrylate

Concen: 42.295 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

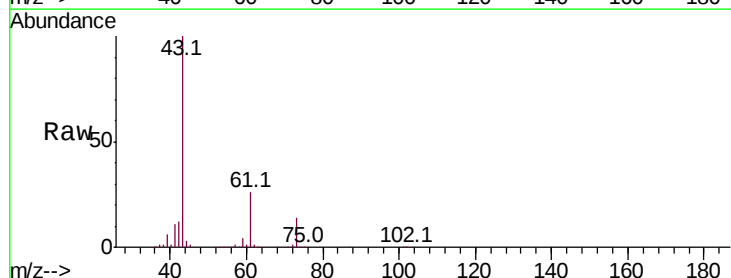
Tgt Ion: 41 Resp: 140912

Ion Ratio Lower Upper

41 100

69 0.1 60.9 91.3#

39 59.0 57.5 86.3



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

100000

80000

60000

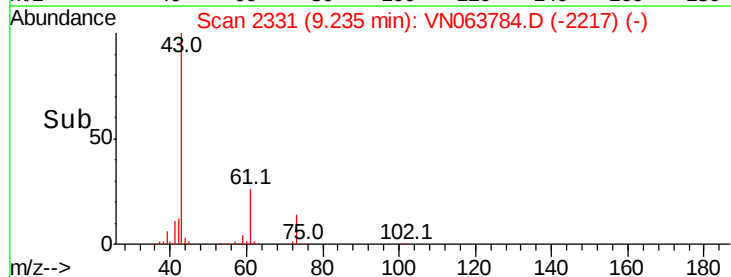
40000

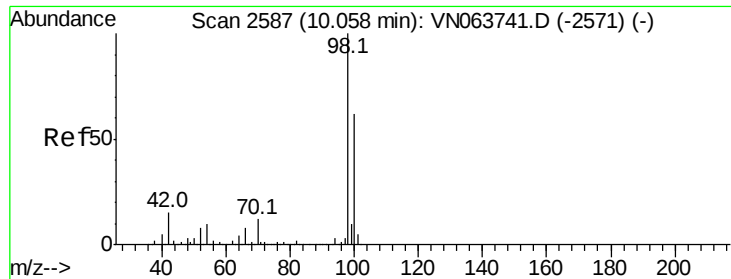
20000

0

Time-->

9.15 9.20 9.25 9.30





#50

Toluene-d8

Concen: 47.683 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

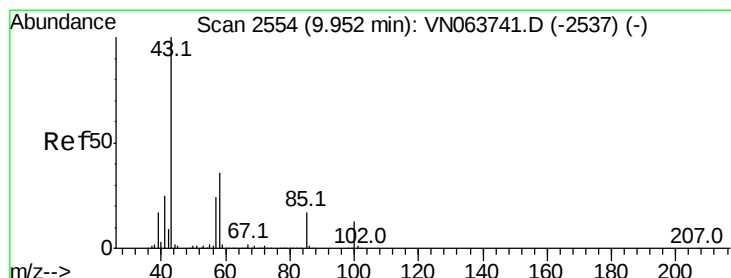
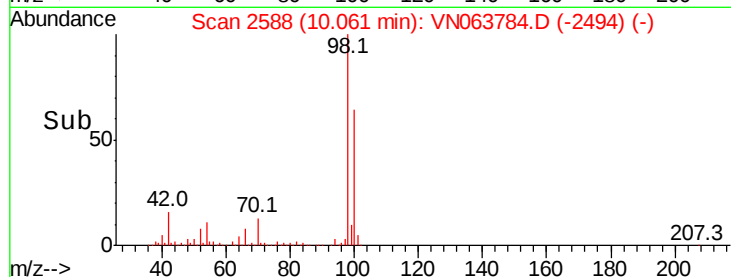
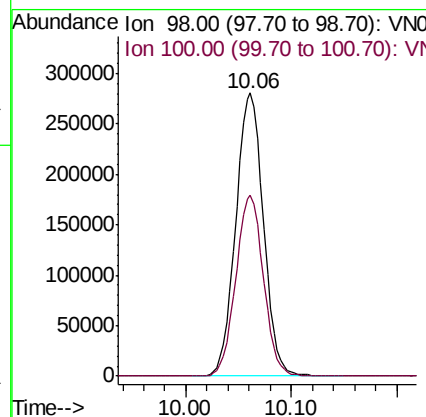
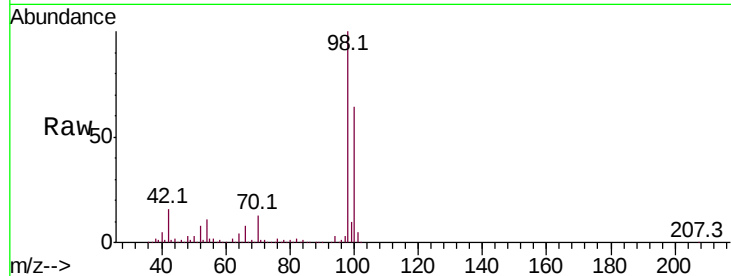
PB132009ZHE#06

Tot Ion: 98 Resp: 509455

Ion Ratio Lower Upper

98 100

100 63.7 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.862 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063784.D

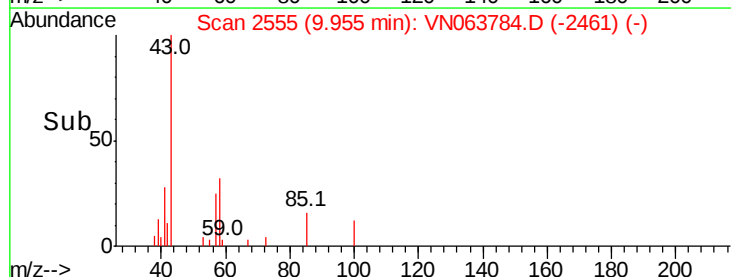
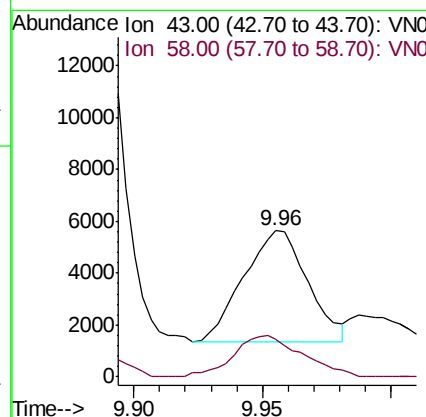
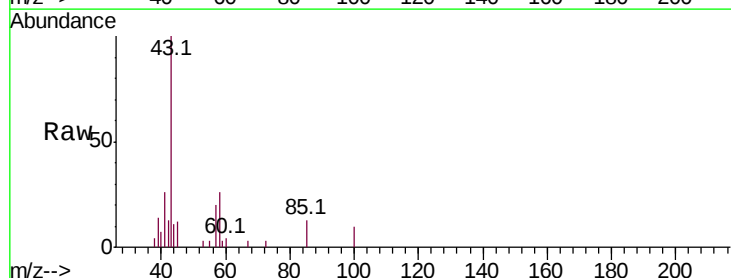
Acq: 1 Oct 2020 20:09

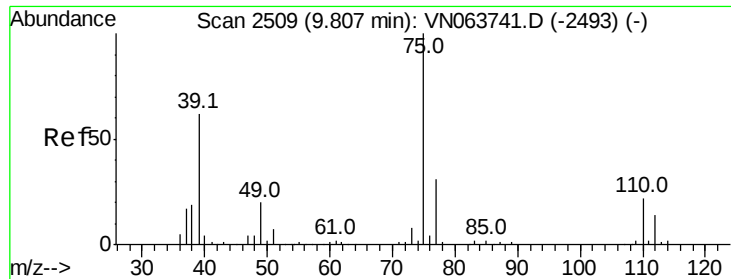
Tgt Ion: 43 Resp: 7368

Ion Ratio Lower Upper

43 100

58 40.5 28.4 42.6



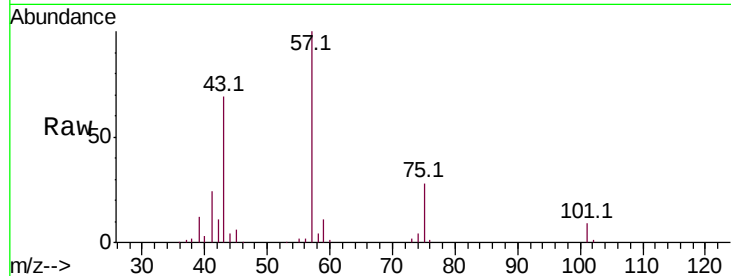


#54

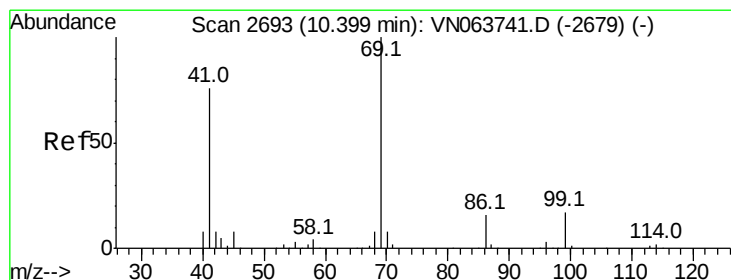
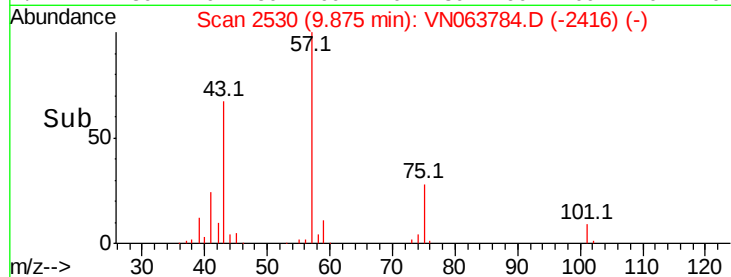
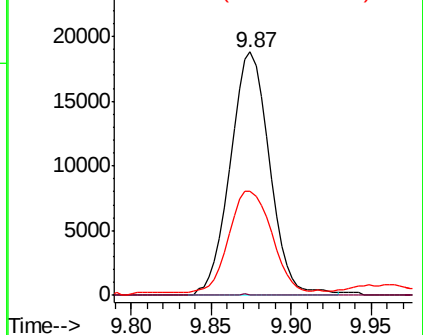
cis-1,3-Dichloropropene
 Concen: 6.229 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063784.D
 Acq: 1 Oct 2020 20:09

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#06

Tot Ion: 75 Resp: 31512
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 41.5 49.7 74.5#



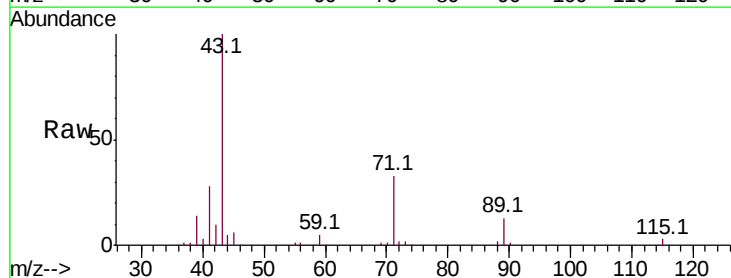
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



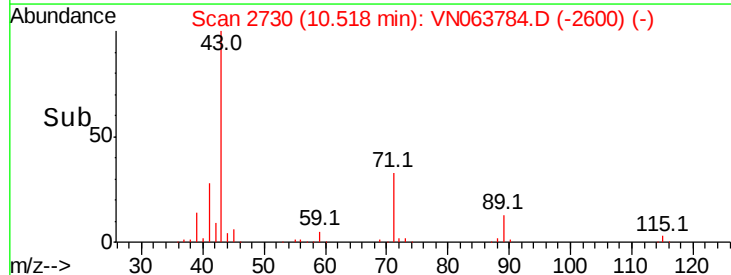
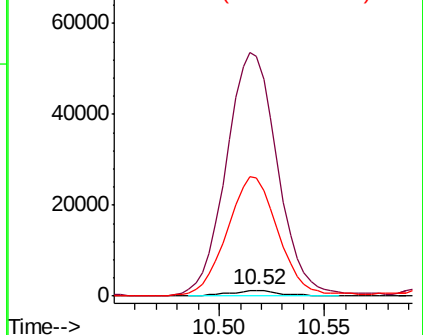
#56

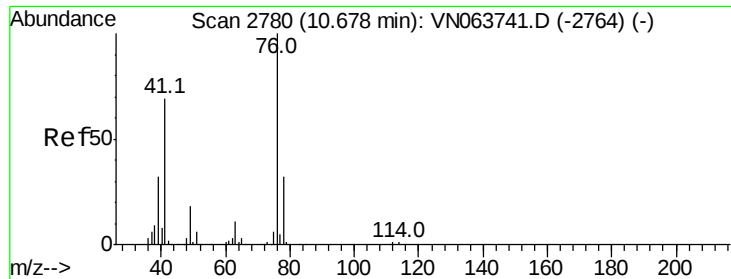
Ethyl methacrylate
 Concen: 0.488 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN063784.D
 Acq: 1 Oct 2020 20:09

Tgt Ion: 69 Resp: 2015
 Ion Ratio Lower Upper
 69 100
 41 4505.5 61.1 91.7#
 39 2157.1 42.2 63.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.118 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

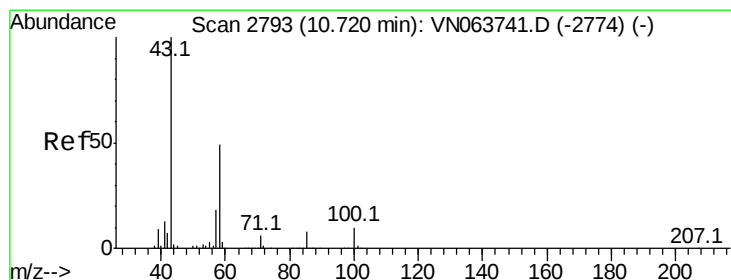
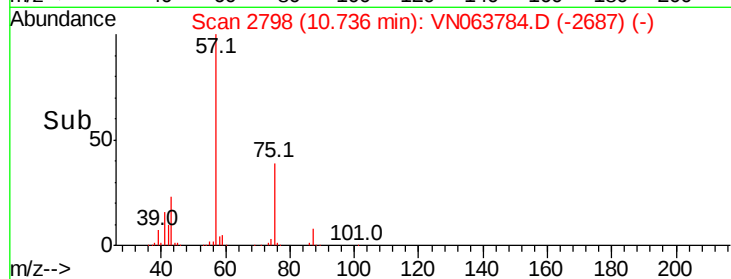
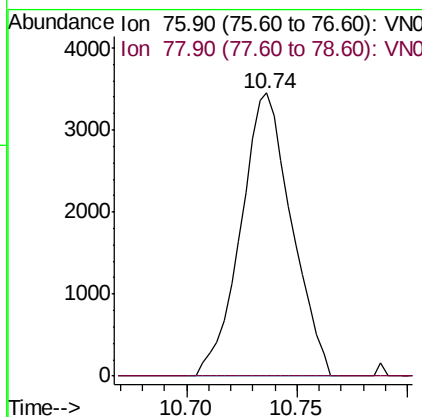
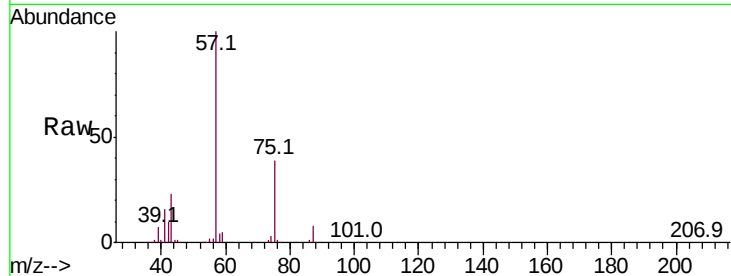
Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#06

Tot Ion: 76 Resp: 5516

Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.2	37.8#



#59

2-Hexanone

Concen: 31.591 ug/l

RT: 10.74 min Scan# 2798

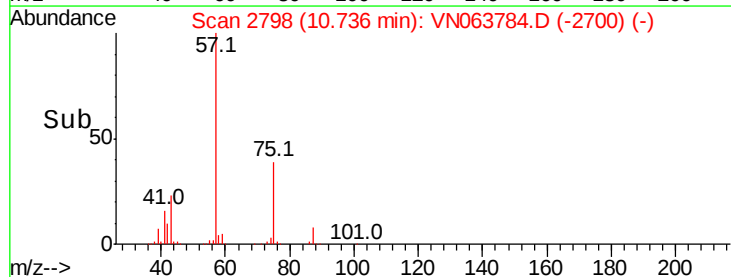
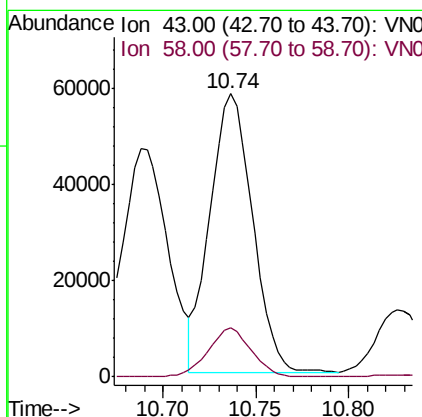
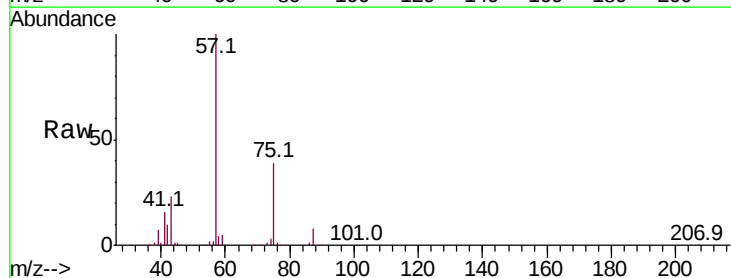
Delta R.T. 0.02 min

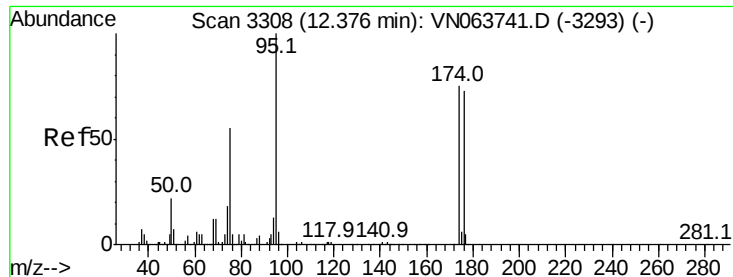
Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Tgt Ion: 43 Resp: 92869

Ion	Ratio	Lower	Upper
43	100		
58	17.8	24.6	73.8#





#62

4-Bromofluorobenzene

Concen: 49.933 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#06

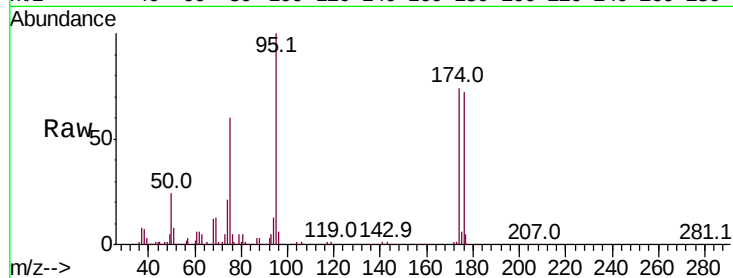
Tot Ion: 95 Resp: 200544

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.6

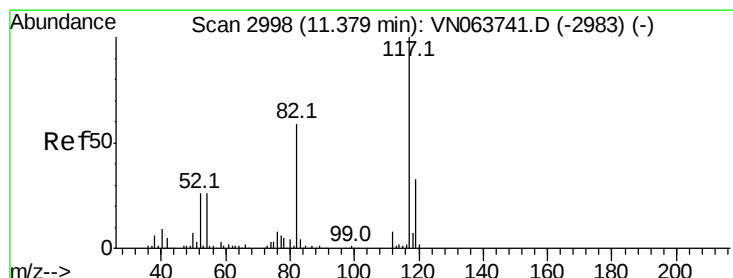
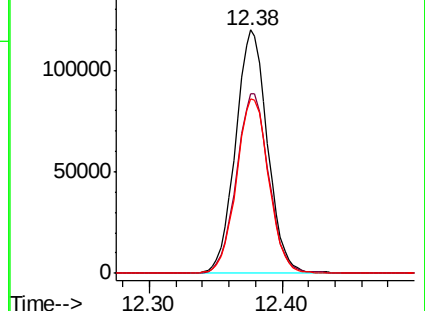
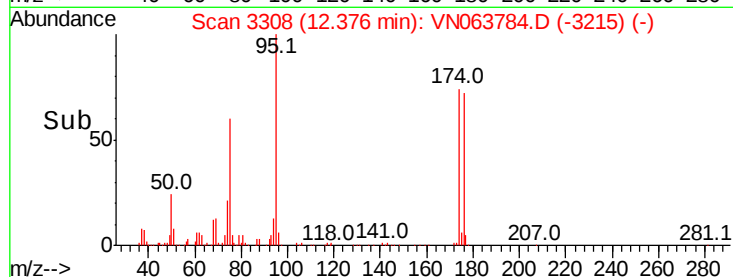
176 72.6 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN

Ion 175.80 (175.50 to 176.50): VN



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

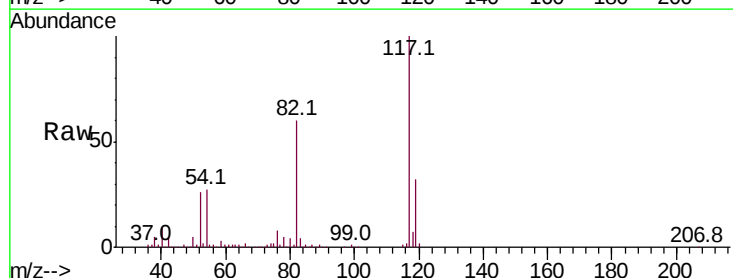
Tgt Ion: 117 Resp: 413089

Ion Ratio Lower Upper

117 100

82 60.3 47.4 71.2

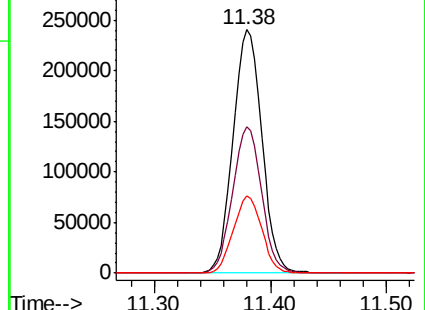
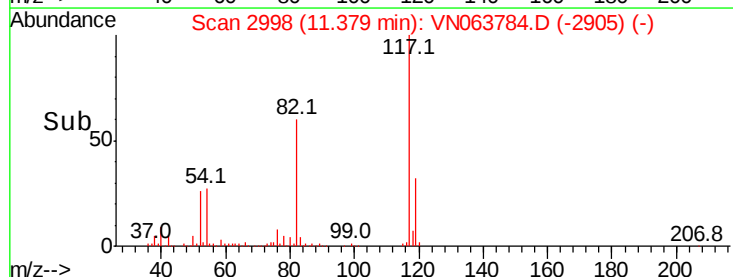
119 31.7 26.4 39.6

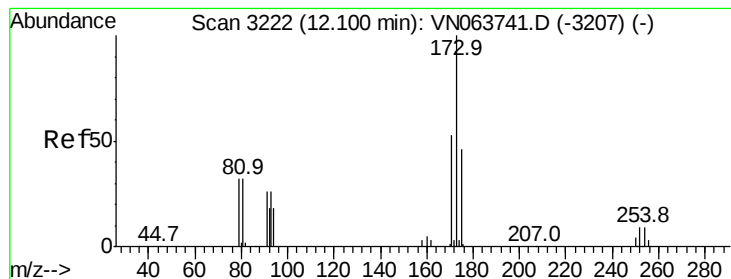


Abundance Ion 116.90 (116.60 to 117.60): VN

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): VN





#71

Bromoform

Concen: 0.783 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#06

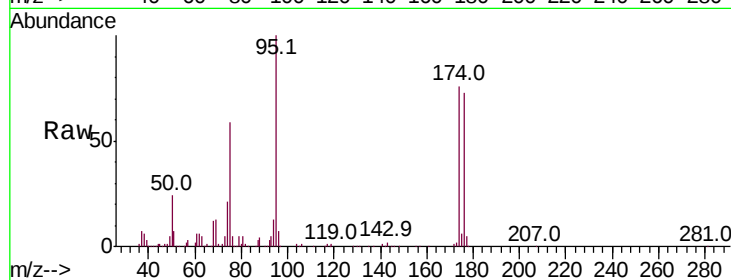
Tot Ion:173 Resp: 1945

Ion Ratio Lower Upper

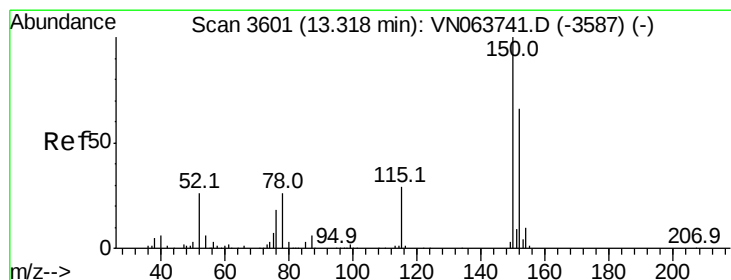
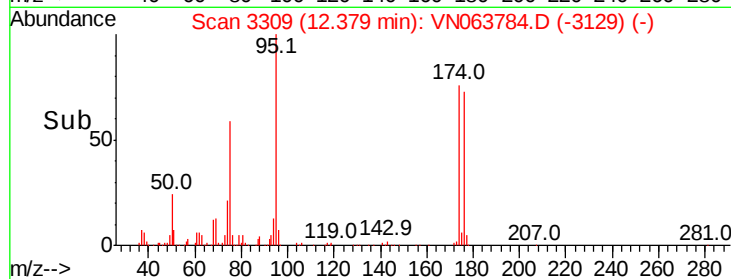
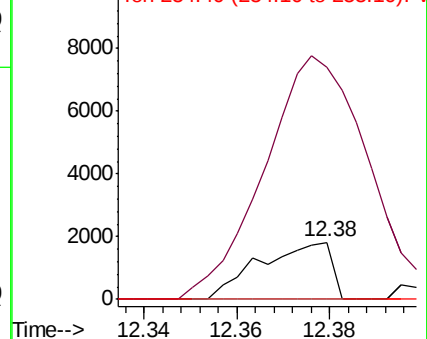
173 100

175 521.6 23.5 70.5#

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: VN063784.D

Acq: 1 Oct 2020 20:09

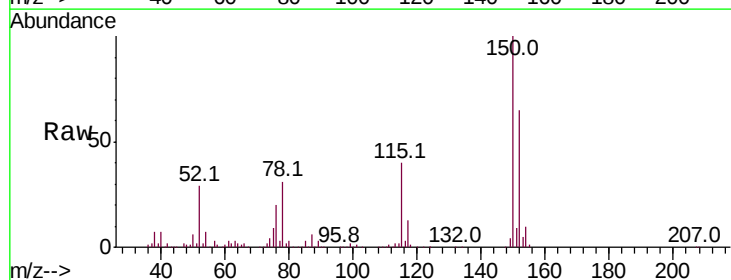
Tgt Ion:152 Resp: 171188

Ion Ratio Lower Upper

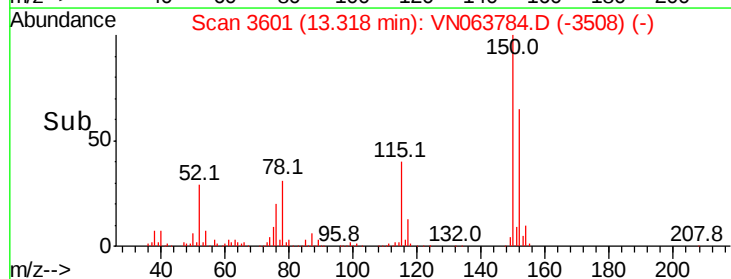
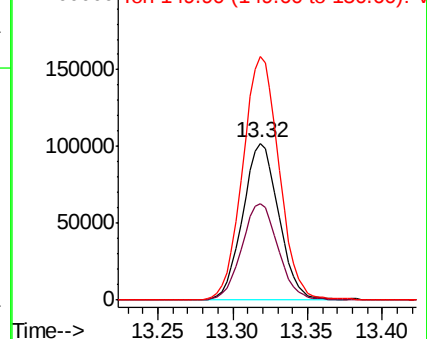
152 100

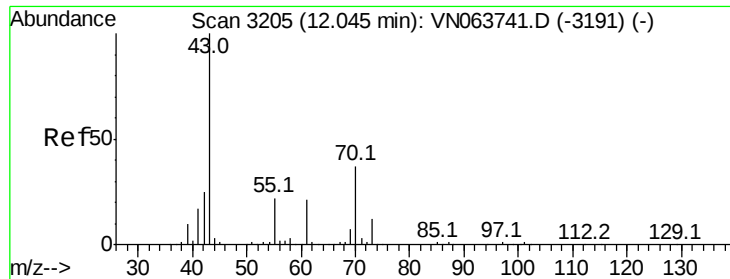
115 62.0 31.3 93.8

150 157.4 0.0 341.8



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: 2.518 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#06

Tot Ion: 43 Resp: 1835

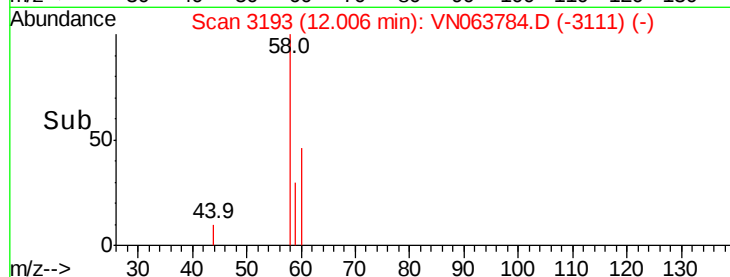
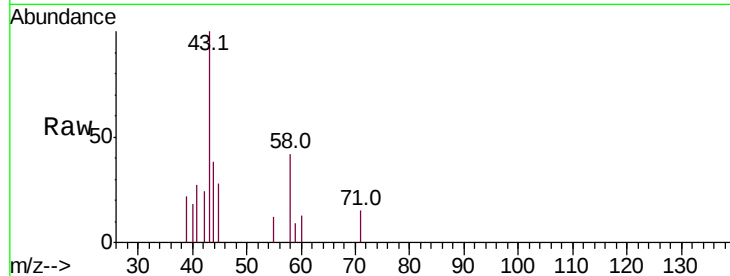
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 18.7 17.9 26.9

61 0.0 17.0 25.4#

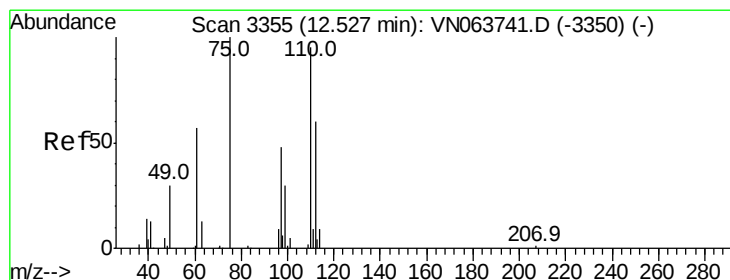
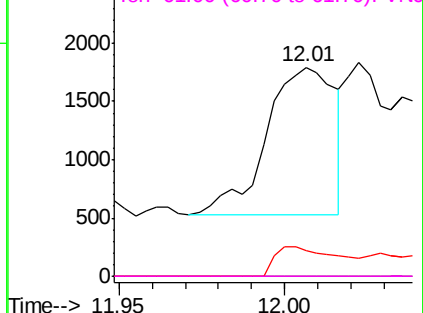


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 31.782 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063784.D

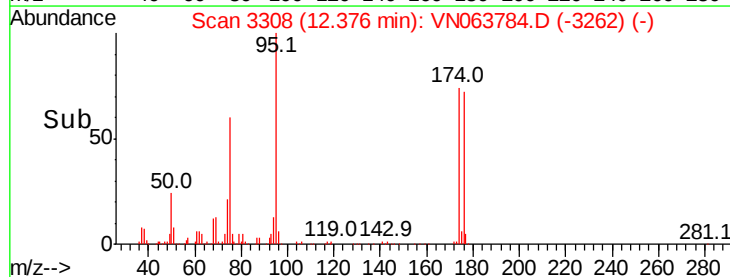
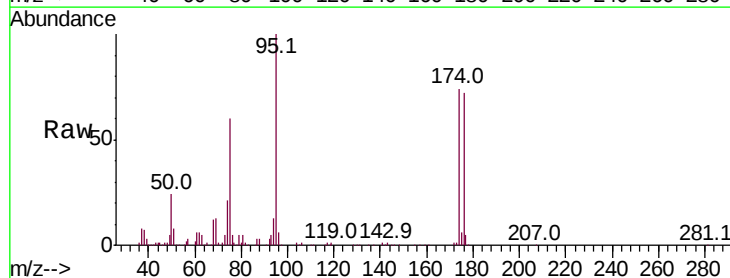
Acq: 1 Oct 2020 20:09

Tgt Ion: 75 Resp: 119934

Ion Ratio Lower Upper

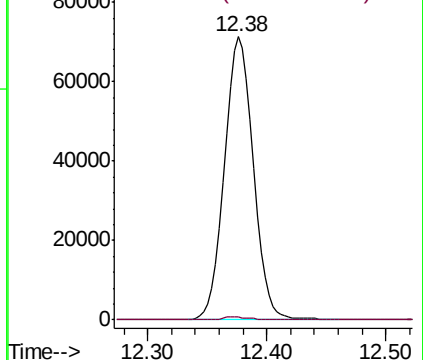
75 100

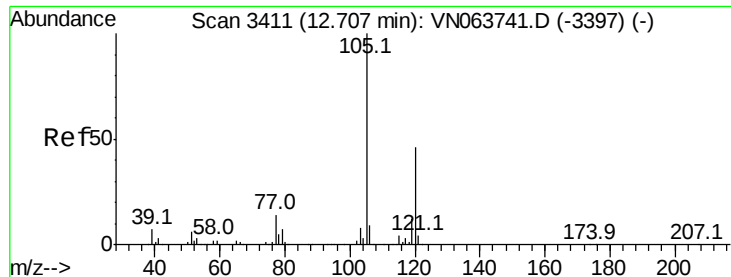
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.638 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

Instrument :

MSVOA_N

ClientSampleId :

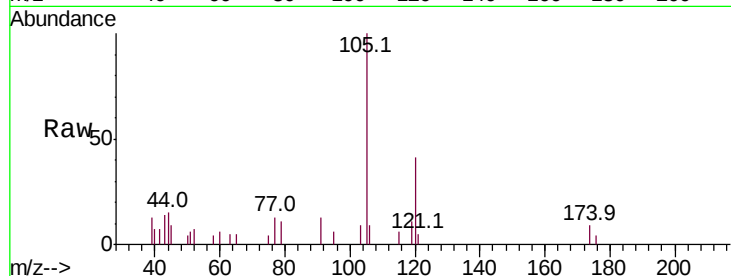
PB132009ZHE#06

Tot Ion:105 Resp: 6681

Ion Ratio Lower Upper

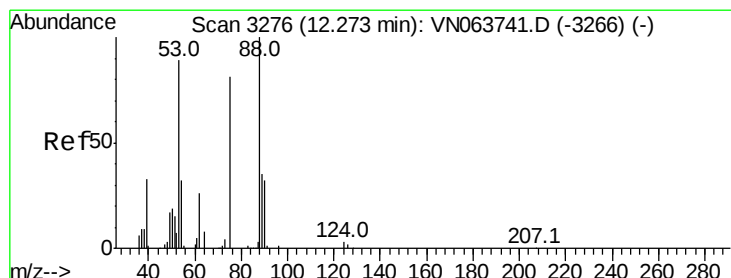
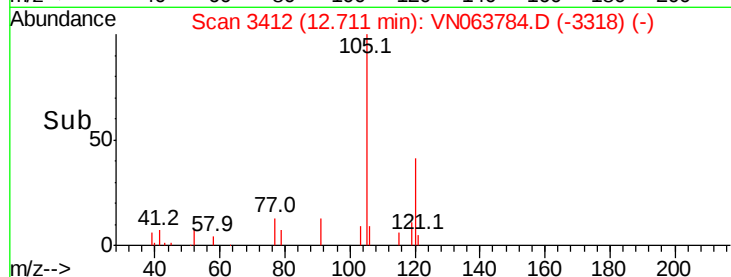
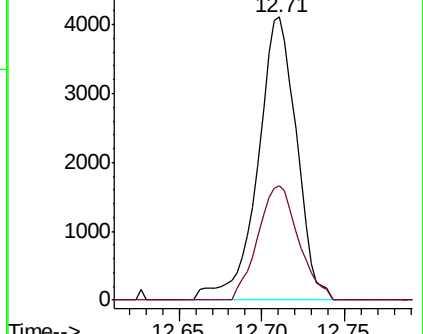
105 100

120 42.6 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 91.537 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063784.D

Acq: 1 Oct 2020 20:09

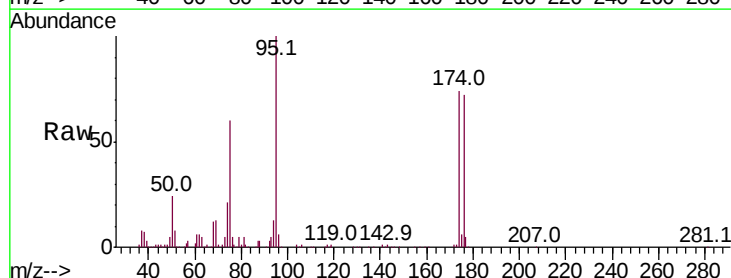
Tgt Ion: 75 Resp: 119934

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#



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

