

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061927.D
 Acq On : 19 Jun 2020 3:17
 Operator : JC/MD
 Sample : PB129596ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#04

Quant Time: Jun 19 05:34:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	140666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	266295	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	267092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	99747	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	97585	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
35) Dibromofluoromethane	7.55	113	84607	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
50) Toluene-d8	10.06	98	344247	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	12.38	95	113129	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	

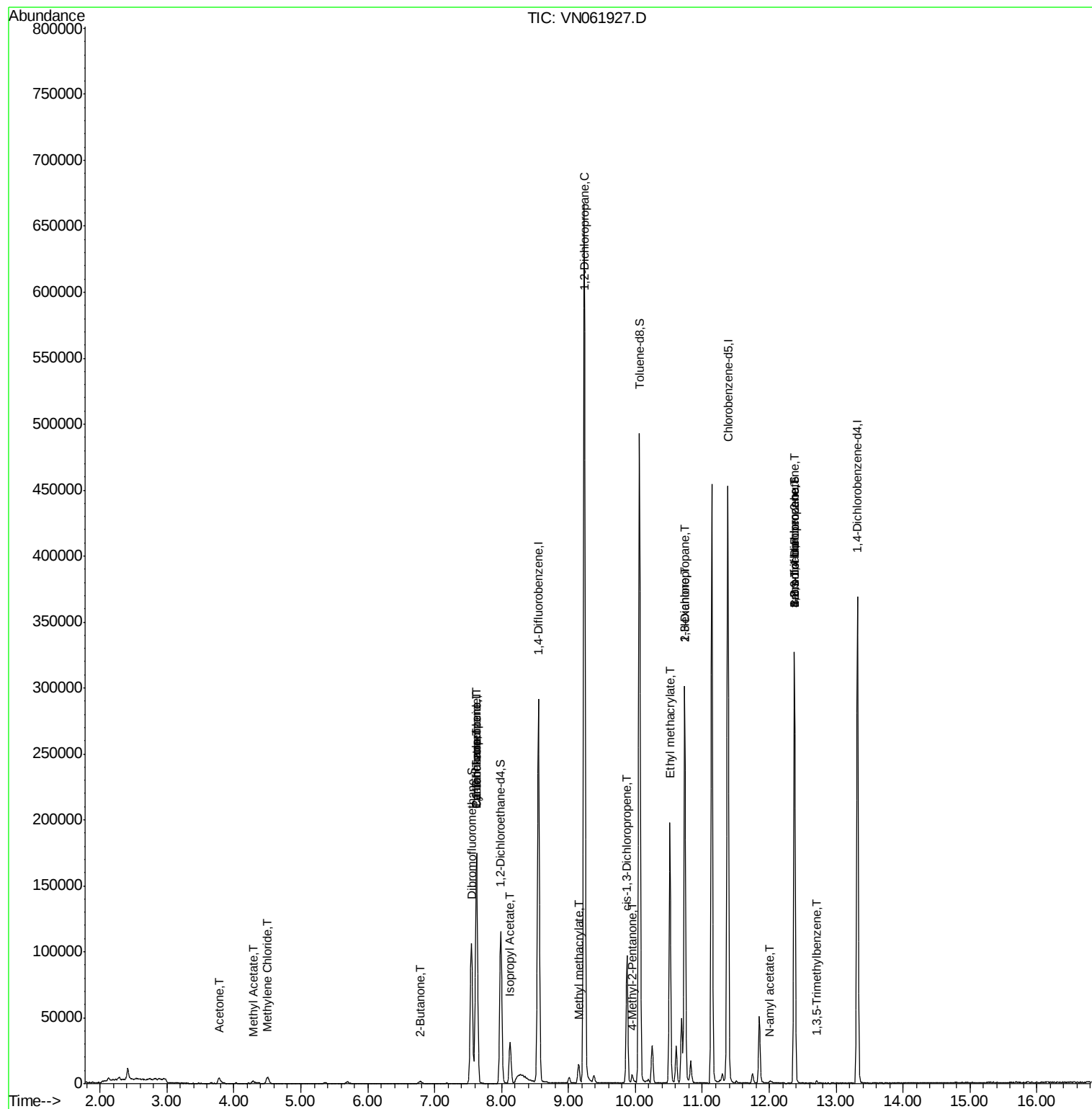
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	7167	12.861	ug/l	99
18) Methyl Acetate	4.28	43	2967	1.849	ug/l	91
20) Methylene Chloride	4.50	84	3834	2.112	ug/l	86
25) 2-Butanone	6.79	43	1485	1.827	ug/l	90
31) Cyclohexane	7.62	56	3044	1.224	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	11442	4.711	ug/l #	46
38) Carbon Tetrachloride	7.63	117	13494	5.610	ug/l #	17
43) Isopropyl Acetate	8.13	43	34578	10.818	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	735	0.406	ug/l #	43
48) Methyl methacrylate	9.15	41	1837	1.264	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	3507	1.857	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	18681	6.214	ug/l #	67
56) Ethyl methacrylate	10.52	69	746	3.155	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3142	1.020	ug/l #	42
59) 2-Hexanone	10.74	43	38971	37.846	ug/l #	50
71) Bromoform	12.37	173	1092	0.762	ug/l #	1
74) N-amyl acetate	12.00	43	1548	3.630	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	56253	28.726	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1628	0.278	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.38	75	56253	78.347	ug/l #	14

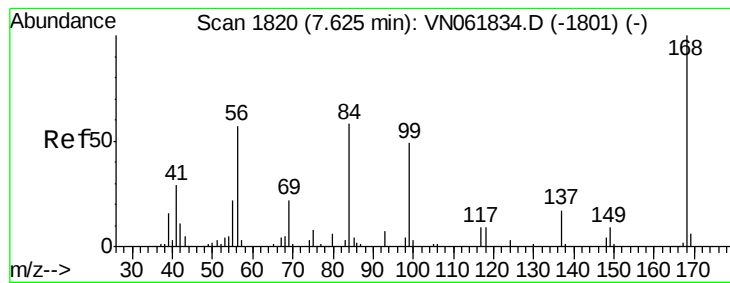
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

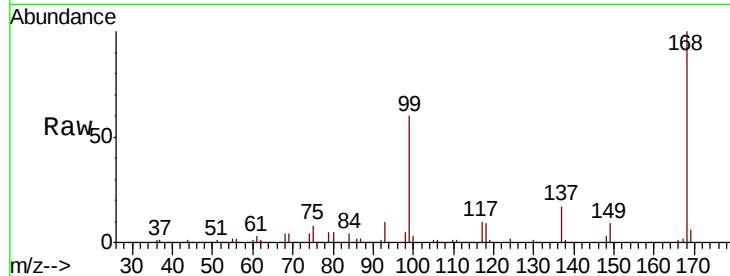
PB129596ZHE#04

Tot Ion:168 Resp: 140666

Ion Ratio Lower Upper

168 100

99 60.0 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): VN061834.D (-1801) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-1801) (-)

7.63

60000

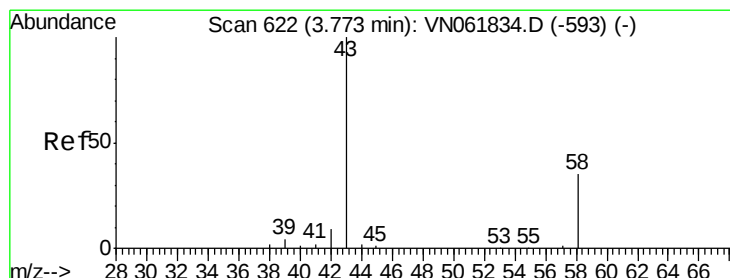
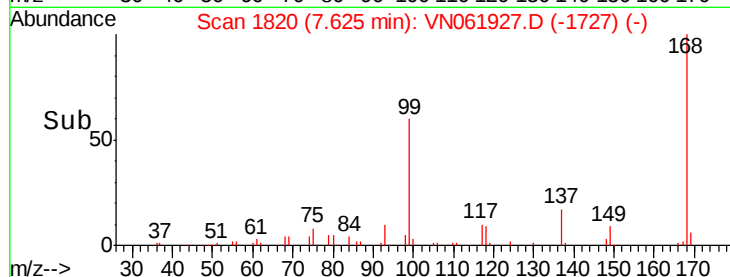
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 12.861 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061927.D

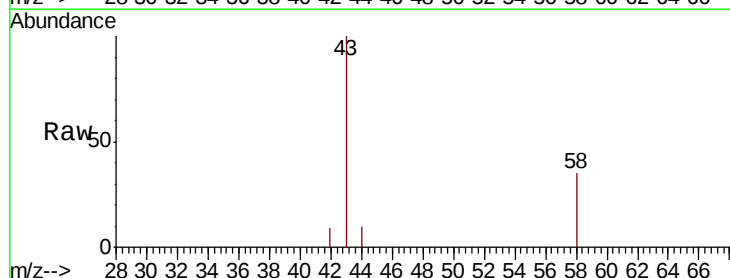
Acq: 19 Jun 2020 3:17

Tgt Ion: 43 Resp: 7167

Ion Ratio Lower Upper

43 100

58 35.3 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-593) (-)

3.78

3000

2500

2000

1500

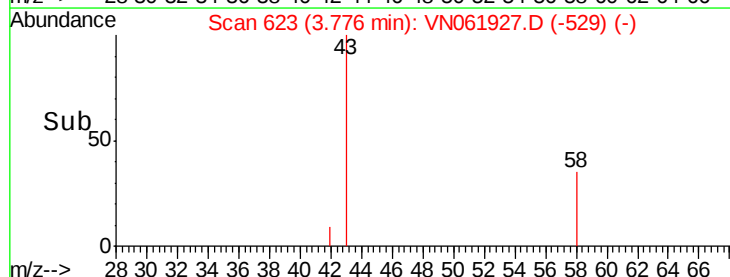
1000

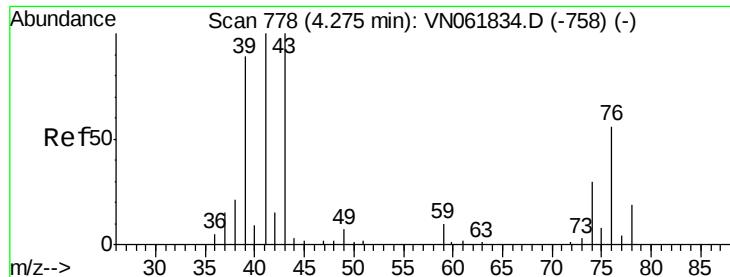
500

0

3.70 3.75 3.80 3.85

Time-->

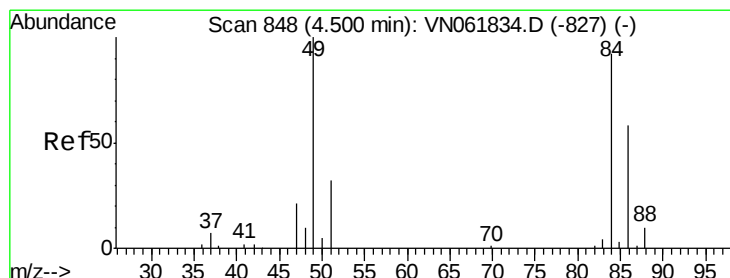
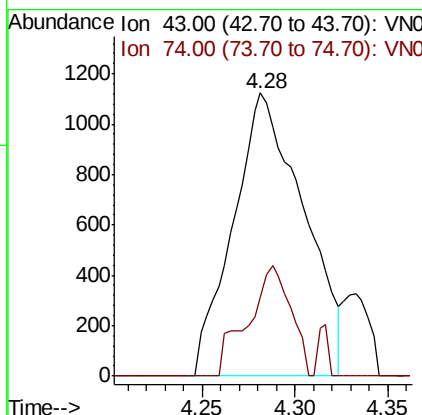
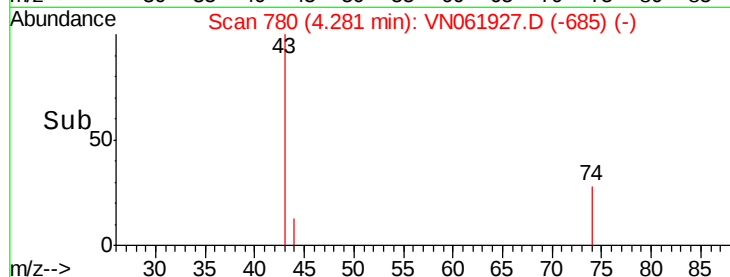
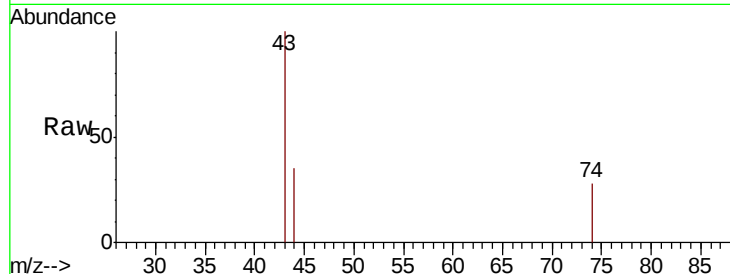




#18
Methyl Acetate
Concen: 1.849 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061927.D
Acq: 19 Jun 2020 3:17

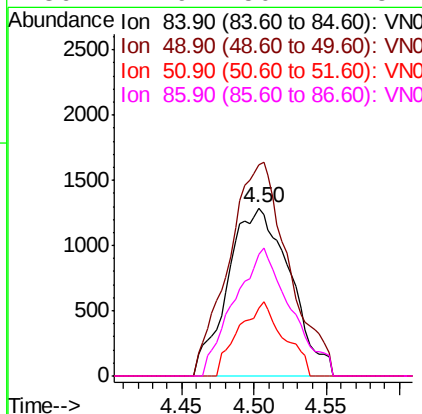
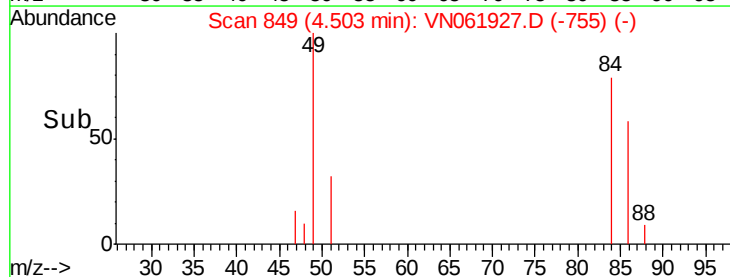
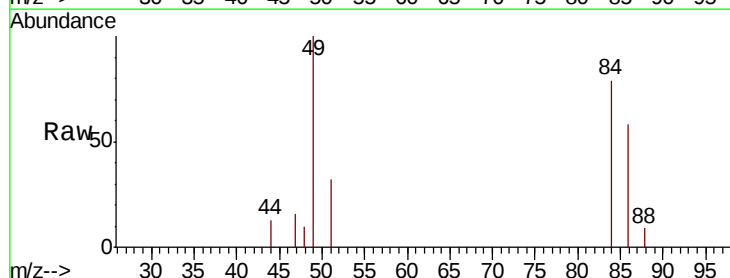
Instrument :
MSVOA_N
ClientSampleId :
PB129596ZHE#04

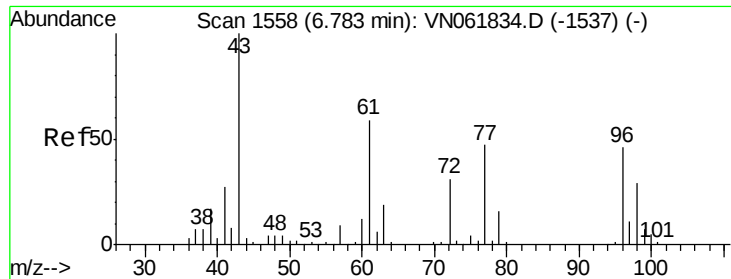
Tot Ion: 43 Resp: 2967
Ion Ratio Lower Upper
43 100
74 23.8 23.0 34.4



#20
Methylene Chloride
Concen: 2.112 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061927.D
Acq: 19 Jun 2020 3:17

Tgt Ion: 84 Resp: 3834
Ion Ratio Lower Upper
84 100
49 125.8 87.0 130.4
51 40.5 27.8 41.6
86 72.9 50.2 75.2





#25

2-Butanone

Concen: 1.827 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. 0.01 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

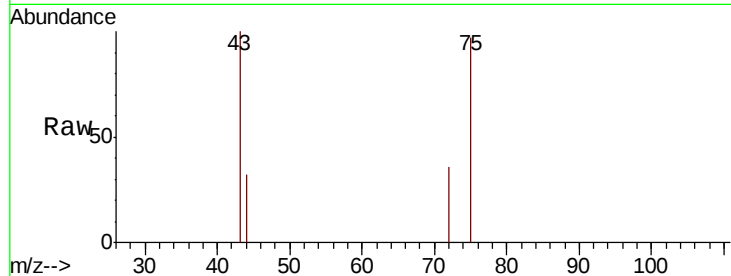
PB129596ZHE#04

Tot Ion: 43 Resp: 1485

Ion Ratio Lower Upper

43 100

72 36.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

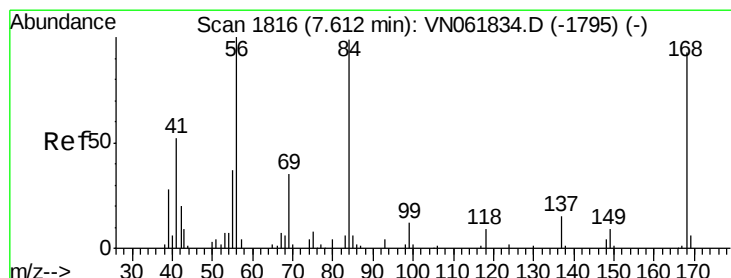
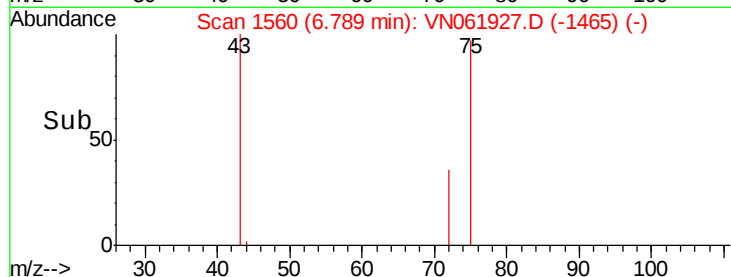
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 1.224 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

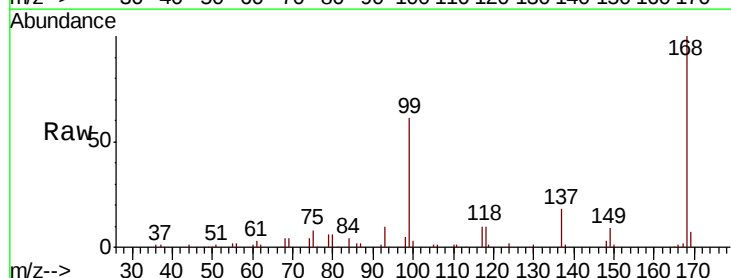
Tgt Ion: 56 Resp: 3044

Ion Ratio Lower Upper

56 100

69 153.9 27.7 41.5#

84 143.3 79.1 118.7#



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

3000

2500

2000

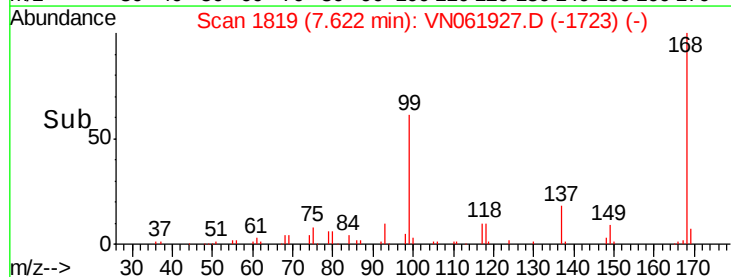
1500

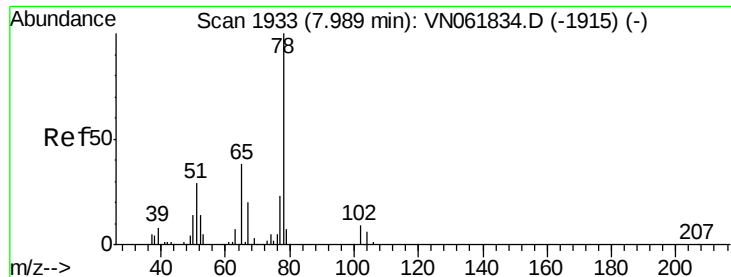
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.727 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

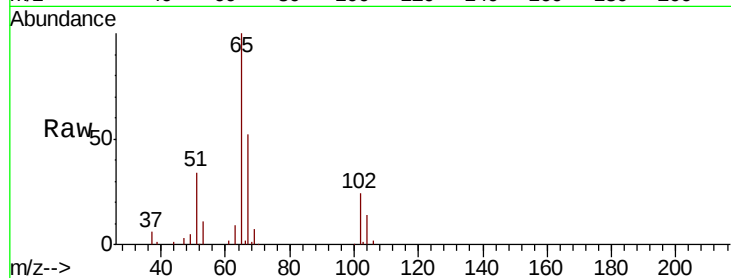
PB129596ZHE#04

Tot Ion: 65 Resp: 97585

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN061834.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN061834.D (-1915) (-)

7.99

40000

30000

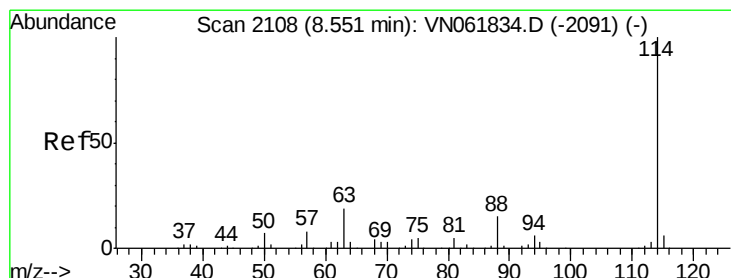
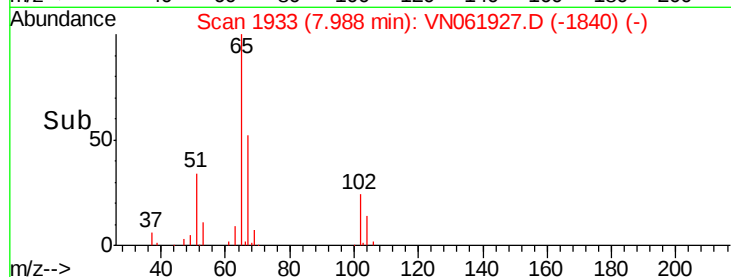
20000

10000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

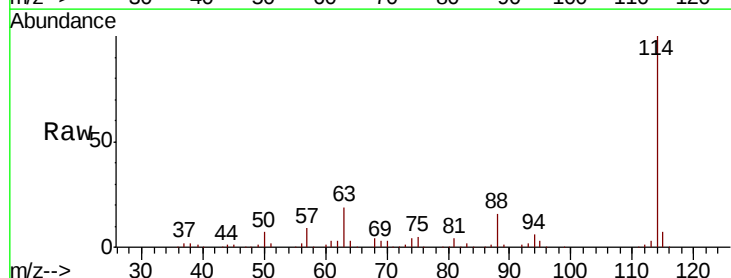
Tgt Ion: 114 Resp: 266295

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.6

88 15.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN061834.D (-2091) (-)

Ion 63.00 (62.70 to 63.70): VN061834.D (-2091) (-)

Ion 87.90 (87.60 to 88.60): VN061834.D (-2091) (-)

8.55

150000

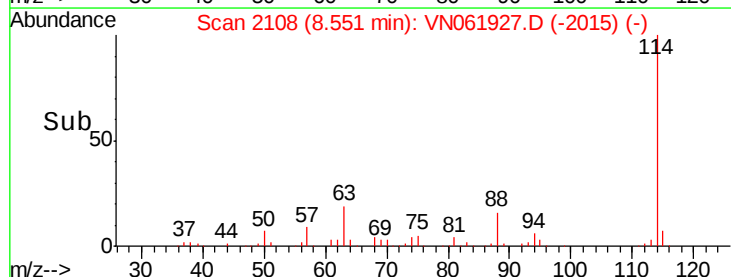
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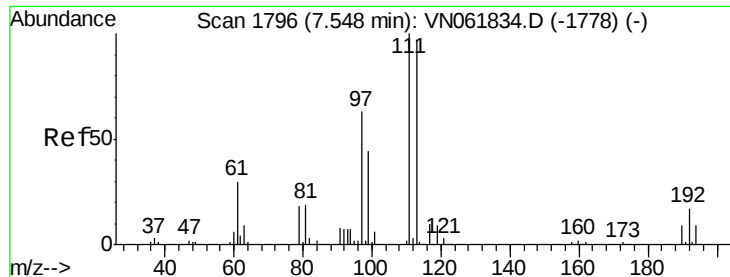
50000

0

8.50 8.60 8.70

Time-->

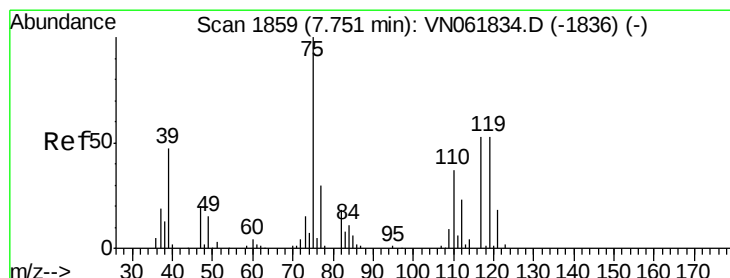
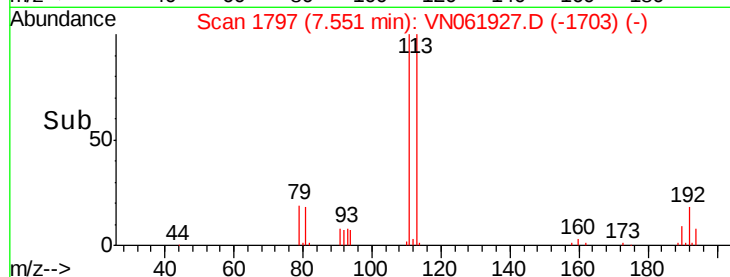
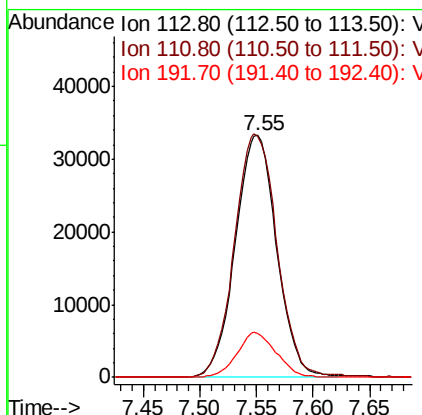
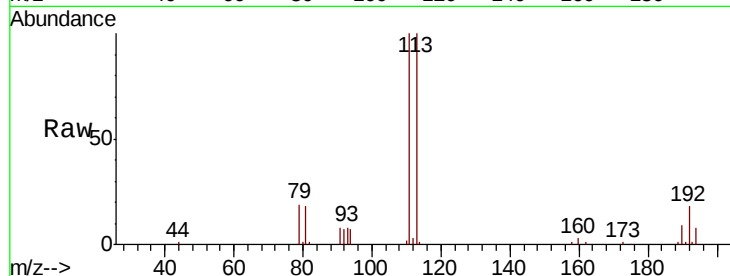




#35
 Dibromofluoromethane
 Concen: 49.663 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

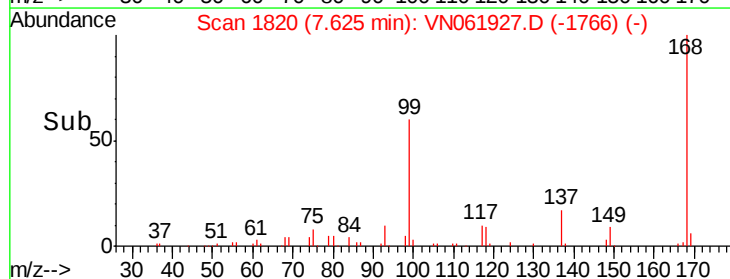
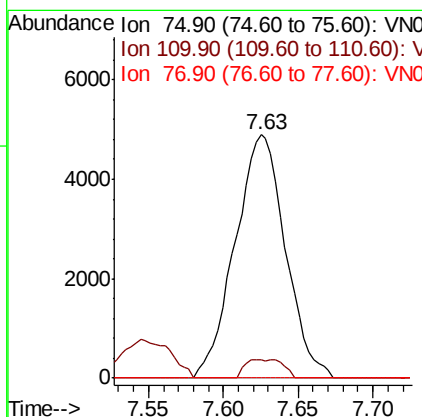
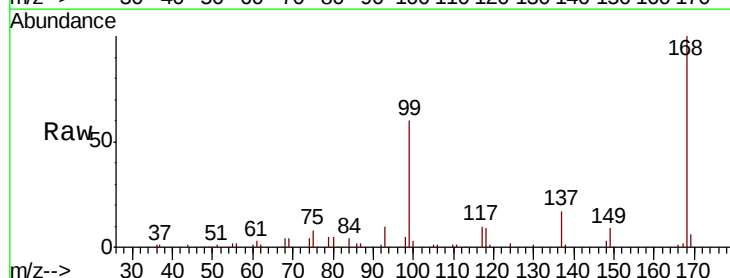
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#04

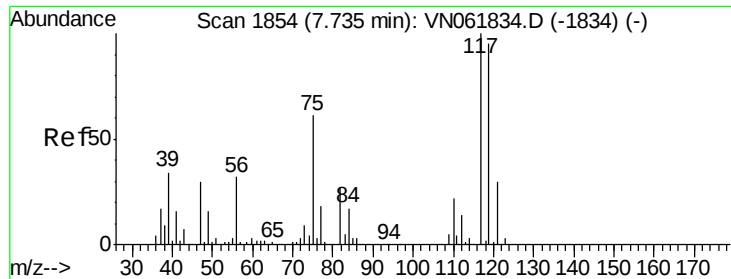
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.7	125.5
192	17.4	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.711 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.7	18.2	54.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.610 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#04

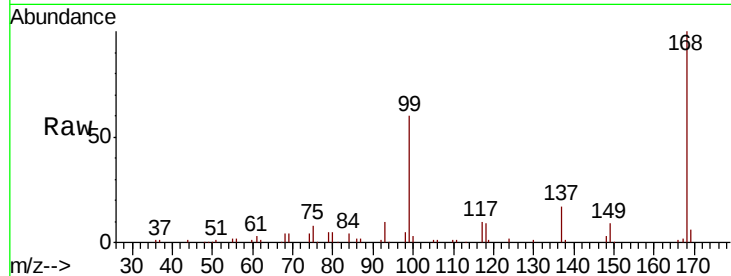
Tot Ion:117 Resp: 13494

Ion Ratio Lower Upper

117 100

119 6.3 75.8 113.6#

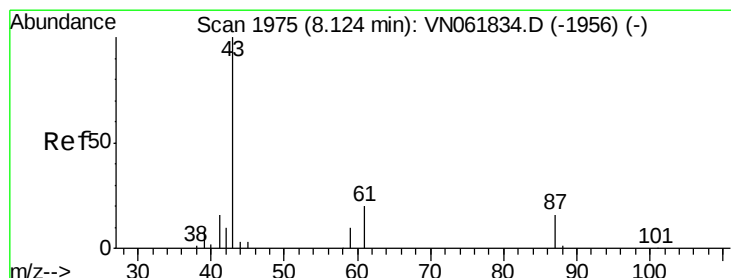
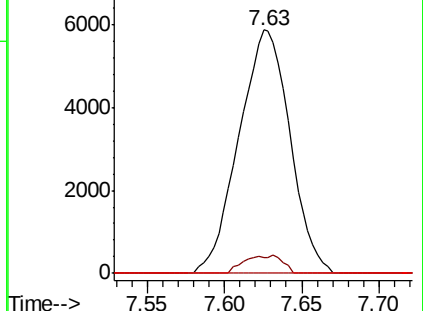
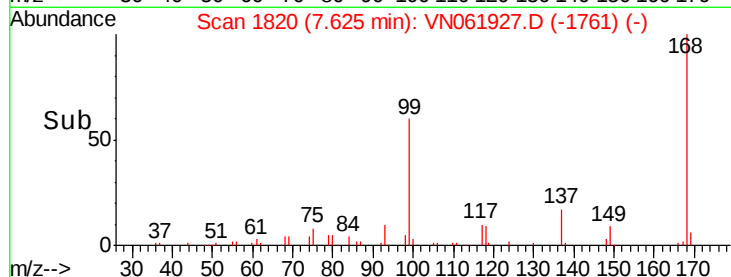
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.818 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

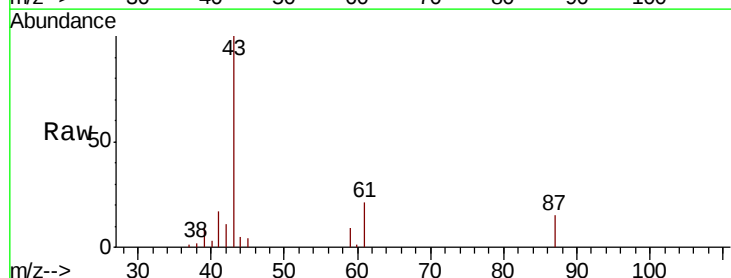
Tgt Ion: 43 Resp: 34578

Ion Ratio Lower Upper

43 100

61 21.2 24.0 36.0#

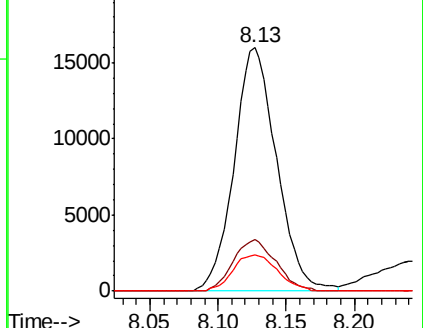
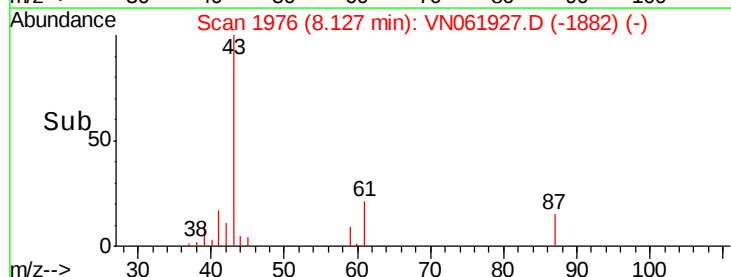
87 15.7 12.5 18.7

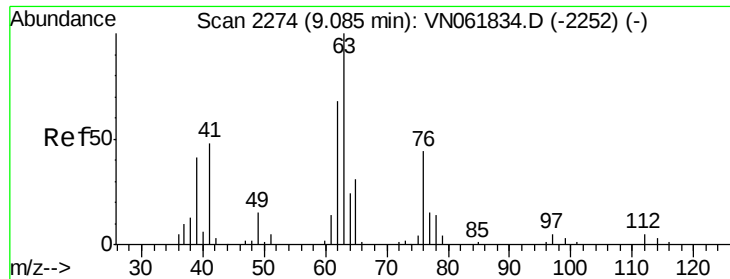


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

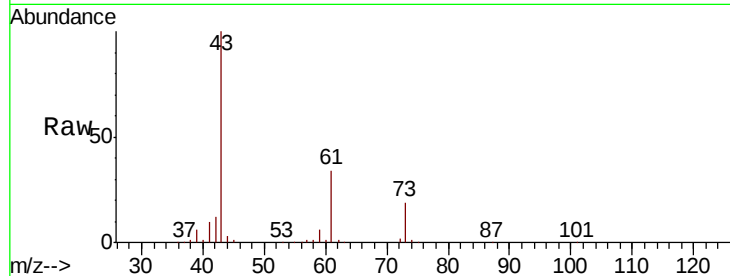
PB129596ZHE#04

Tot Ion: 63 Resp: 735

Ion Ratio Lower Upper

63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.24

400

300

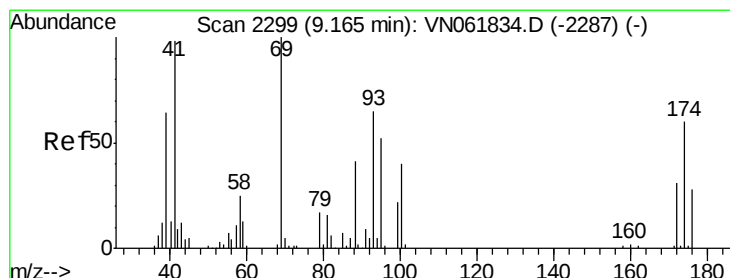
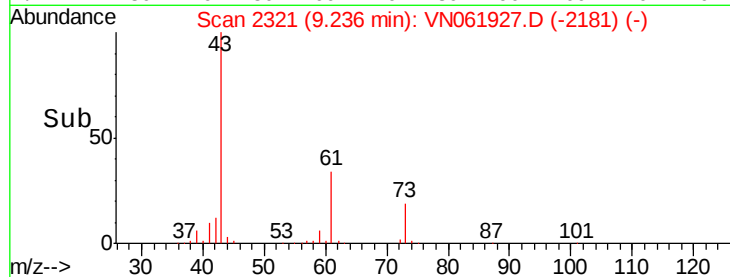
200

100

0

9.20 9.22 9.24 9.26

Time-->



#48

Methyl methacrylate

Concen: 1.264 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

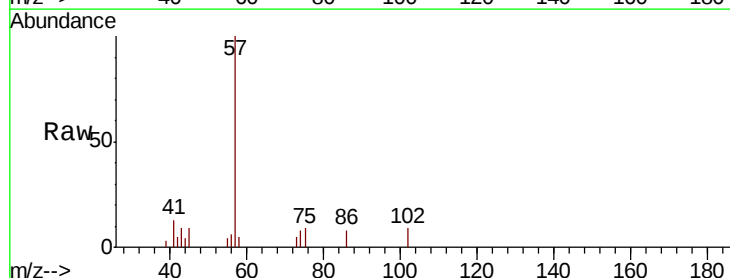
Tgt Ion: 41 Resp: 1837

Ion Ratio Lower Upper

41 100

69 0.0 83.0 124.4#

39 0.0 55.1 82.7#



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

15000

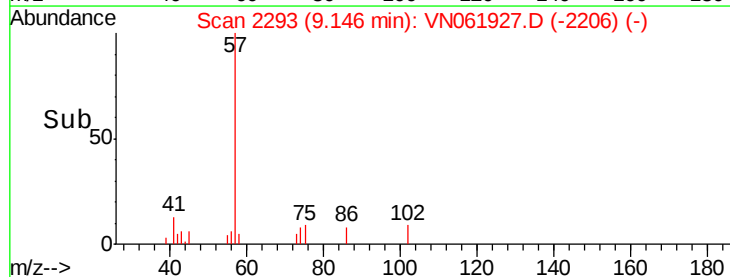
10000

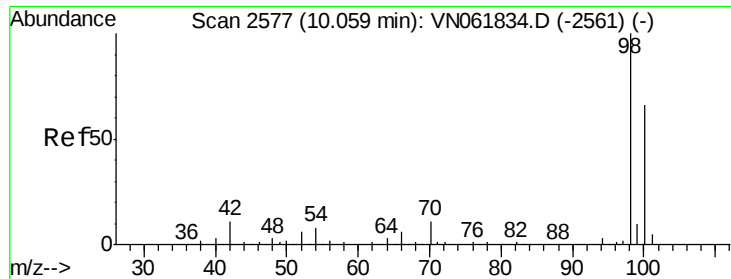
5000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 51.398 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

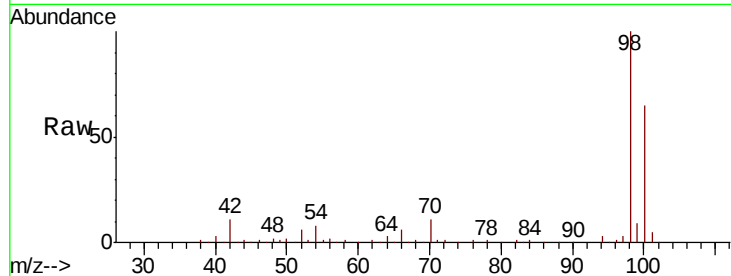
PB129596ZHE#04

Tot Ion: 98 Resp: 344247

Ion Ratio Lower Upper

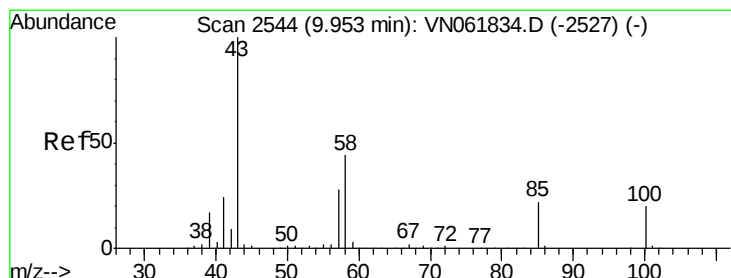
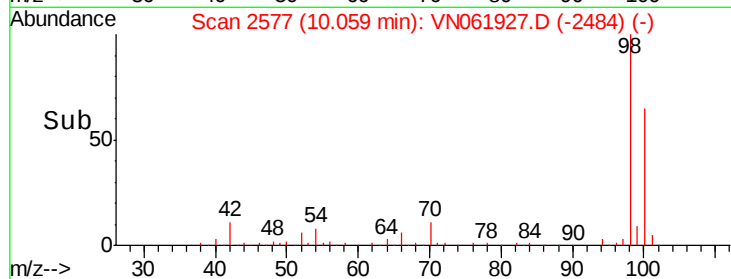
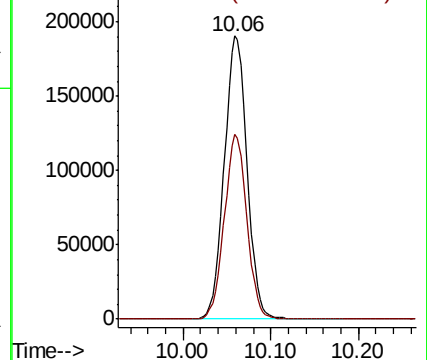
98 100

100 64.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.857 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061927.D

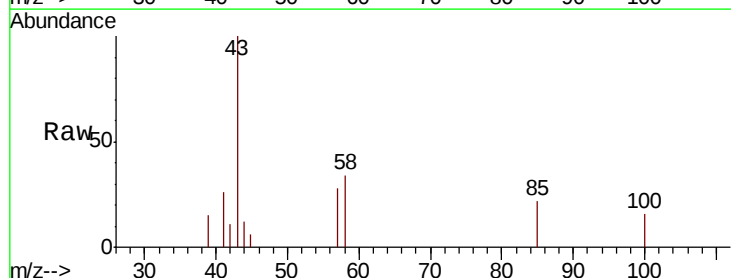
Acq: 19 Jun 2020 3:17

Tgt Ion: 43 Resp: 3507

Ion Ratio Lower Upper

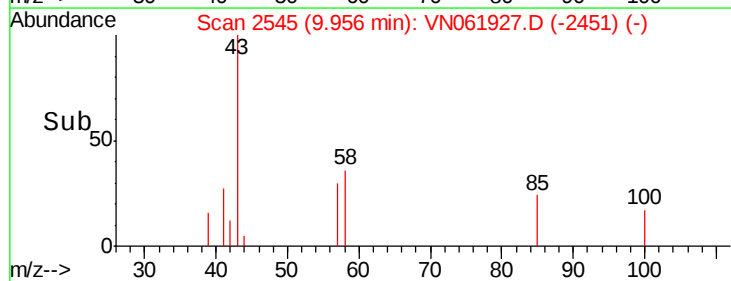
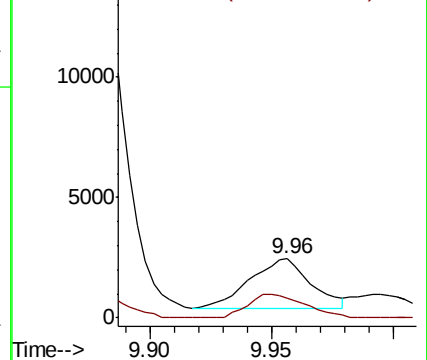
43 100

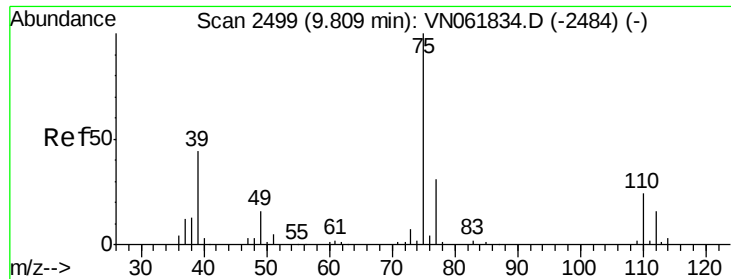
58 45.6 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



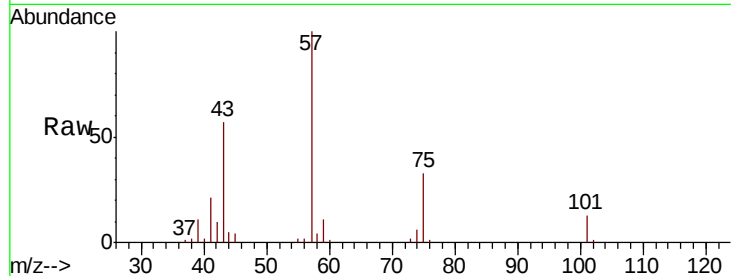


#54

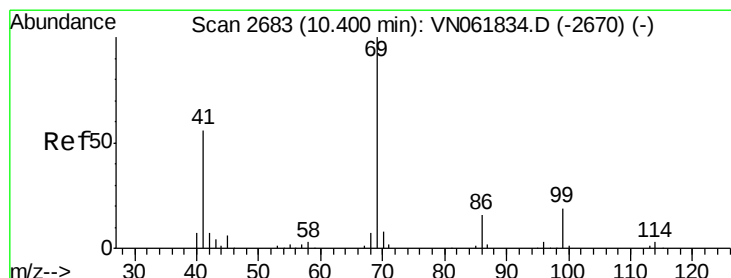
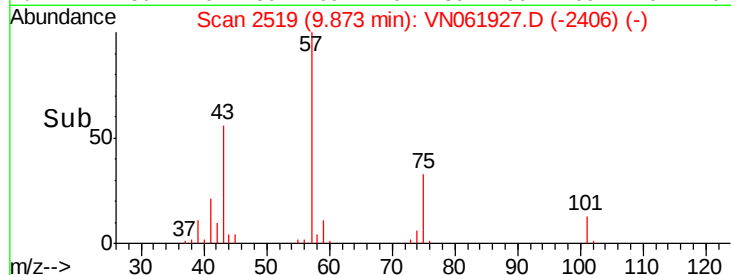
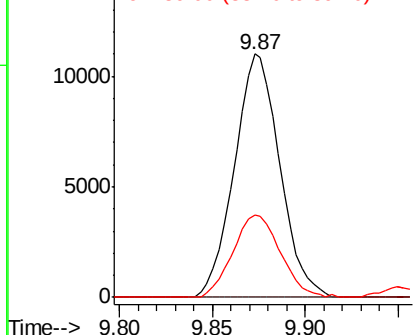
cis-1,3-Dichloropropene
 Concen: 6.214 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#04

Tot Ion: 75 Resp: 18681
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.0 35.4 53.0#



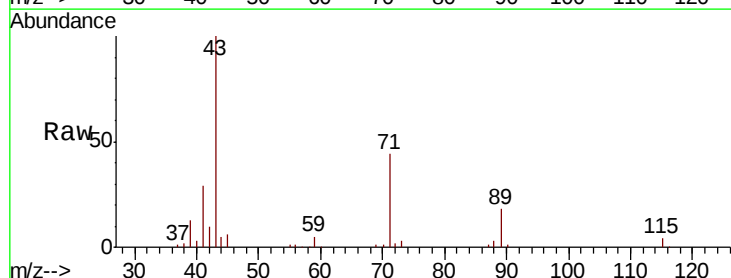
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



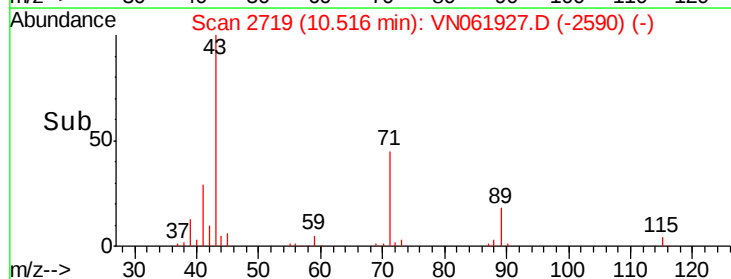
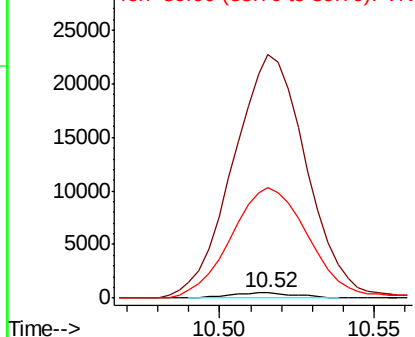
#56

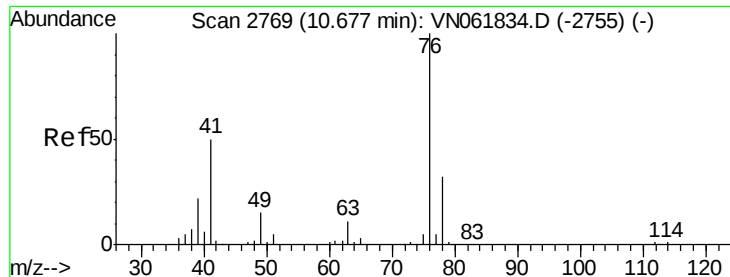
Ethyl methacrylate
 Concen: 3.155 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

Tgt Ion: 69 Resp: 746
 Ion Ratio Lower Upper
 69 100
 41 5066.2 44.9 67.3#
 39 2429.9 30.0 45.0#



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

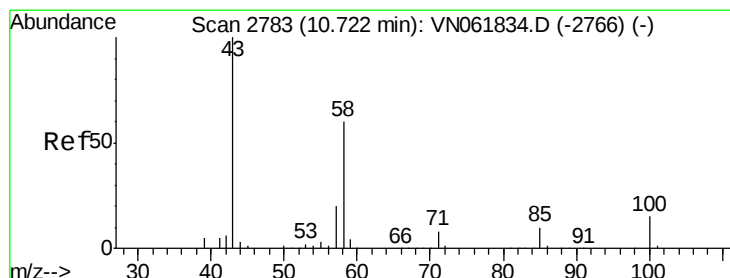
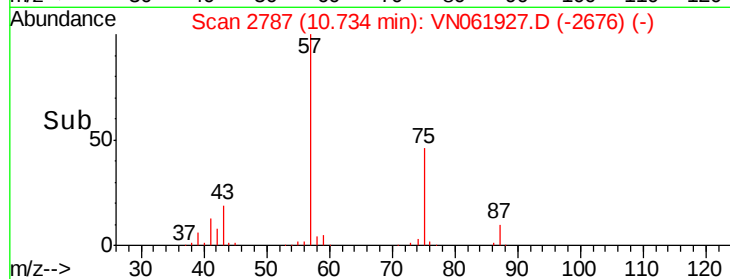
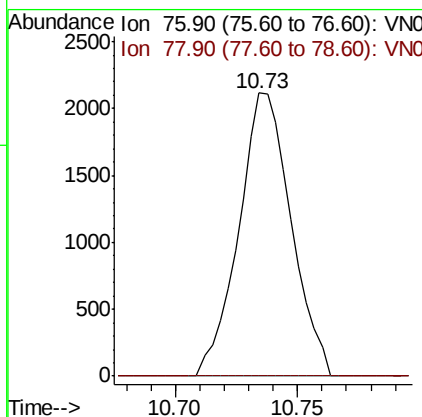
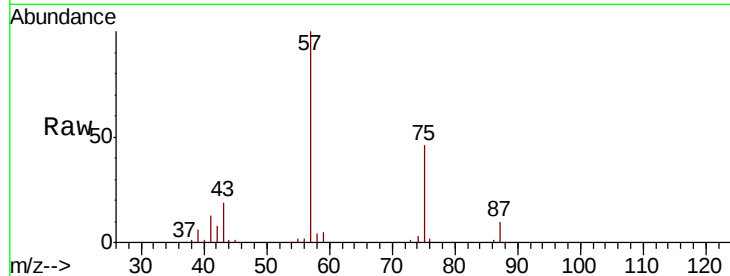




#57
 1,3-Dichloropropane
 Concen: 1.020 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

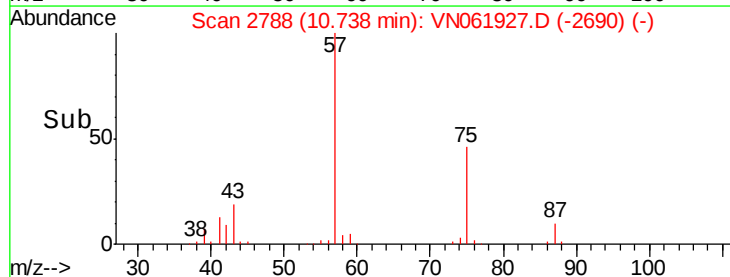
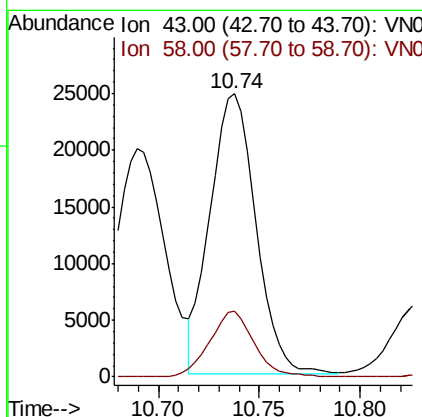
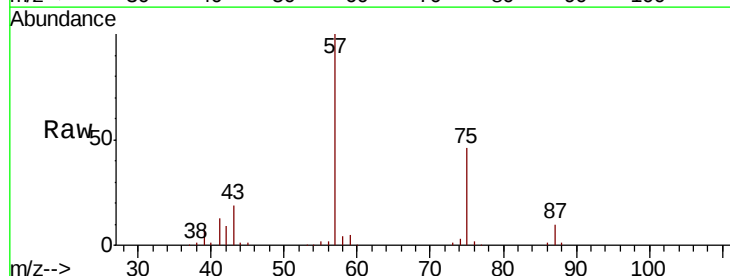
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#04

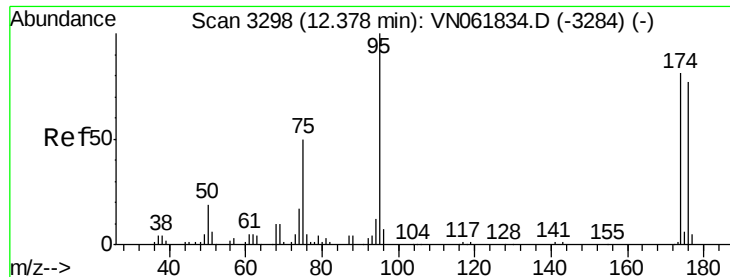
Tot Ion: 76 Resp: 3142
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 37.846 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

Tgt Ion: 43 Resp: 38971
 Ion Ratio Lower Upper
 43 100
 58 22.7 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 49.243 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#04

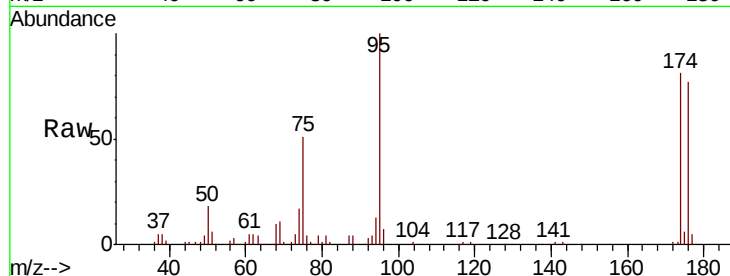
Tot Ion: 95 Resp: 113129

Ion Ratio Lower Upper

95 100

174 80.4 0.0 158.6

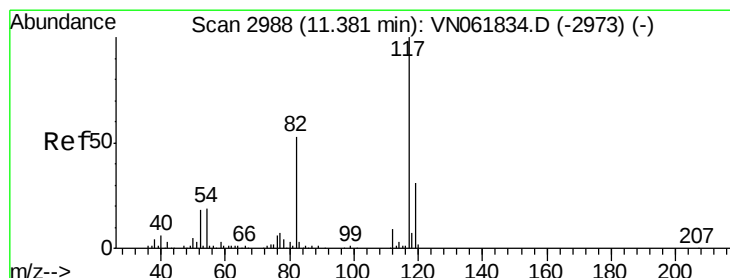
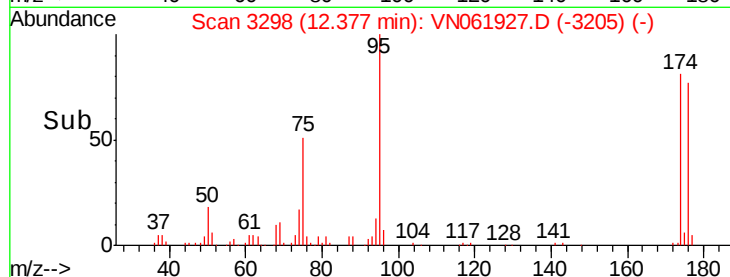
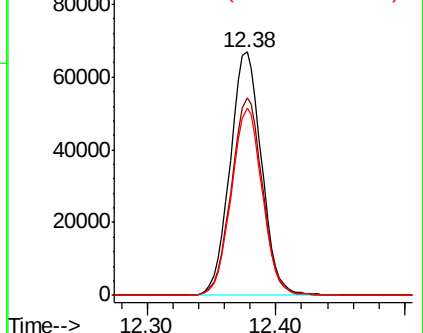
176 76.2 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

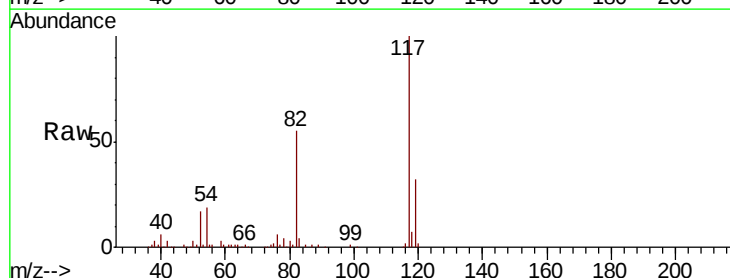
Tgt Ion: 117 Resp: 267092

Ion Ratio Lower Upper

117 100

82 54.7 42.6 64.0

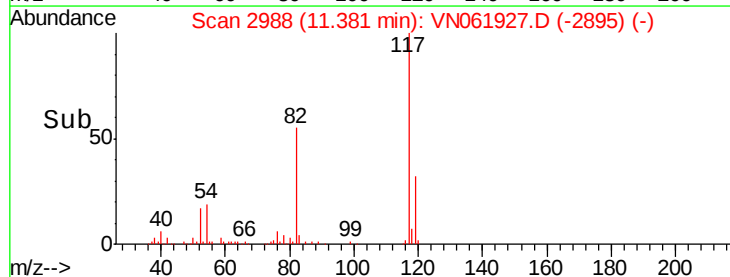
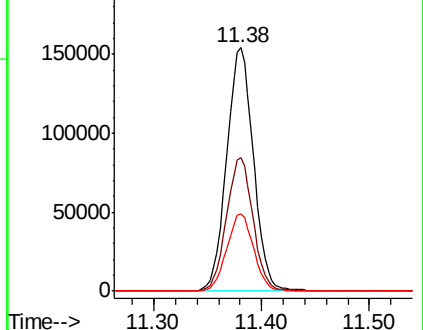
119 31.8 24.7 37.1

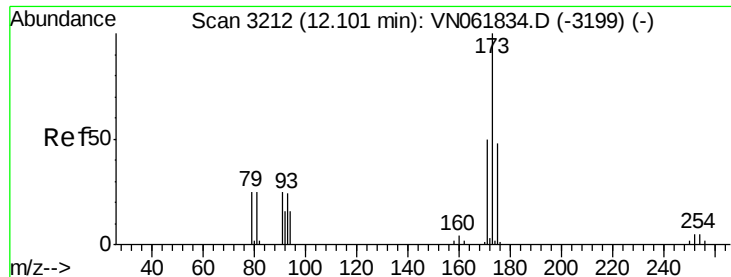


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)





#71

Bromoform

Concen: 0.762 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#04

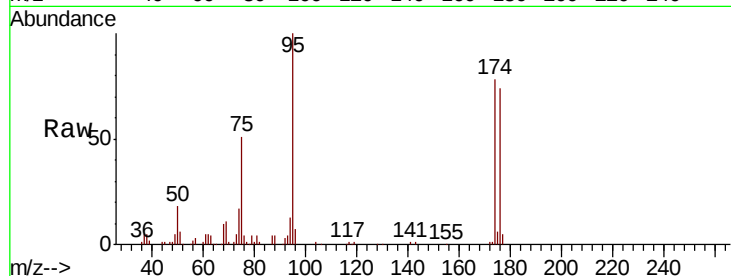
Tot Ion:173 Resp: 1092

Ion Ratio Lower Upper

173 100

175 517.4 23.9 71.7#

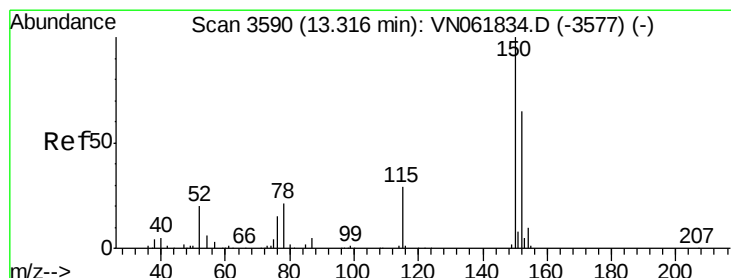
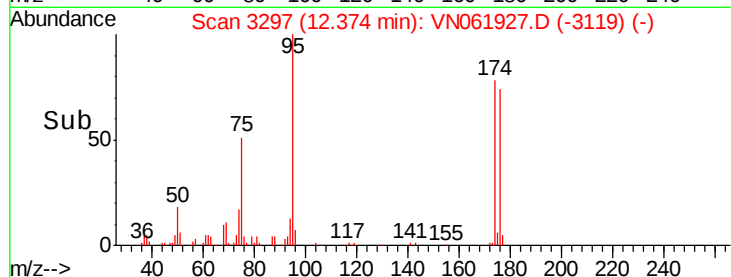
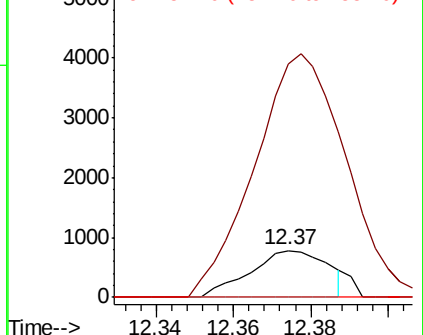
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

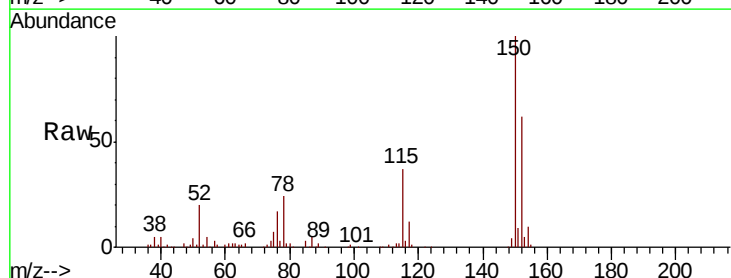
Tgt Ion:152 Resp: 99747

Ion Ratio Lower Upper

152 100

115 59.8 29.1 87.3

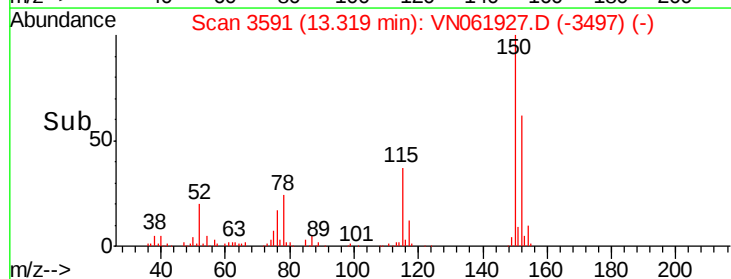
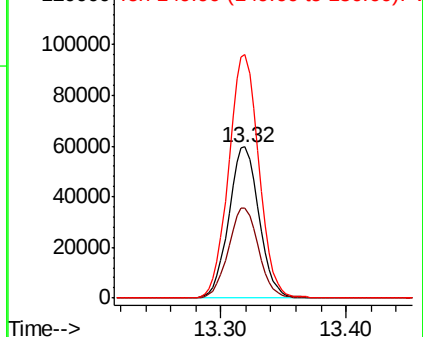
150 161.1 0.0 347.6

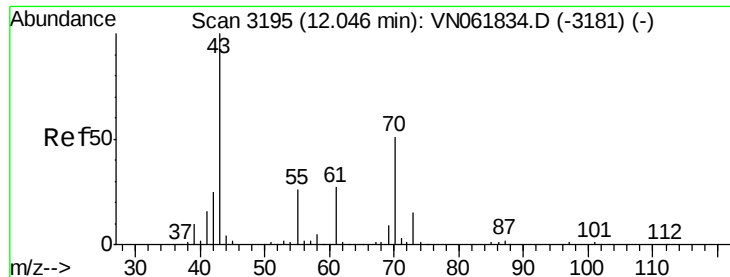


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.630 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061927.D

Acq: 19 Jun 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#04

Tot Ion: 43 Resp: 1548

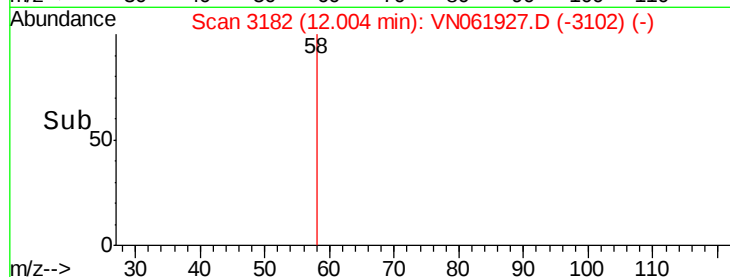
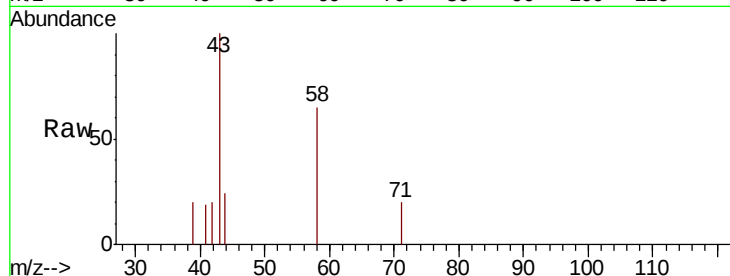
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

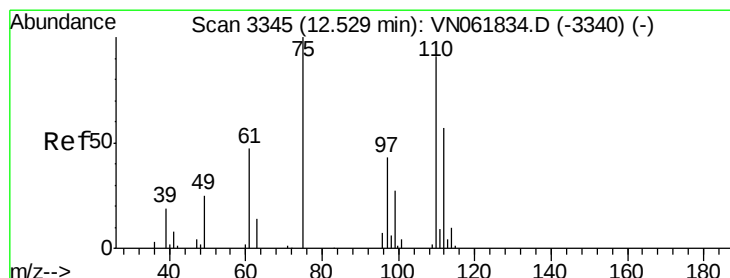
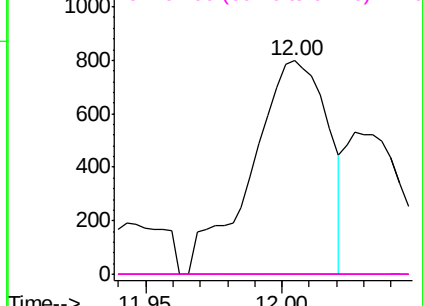


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.726 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061927.D

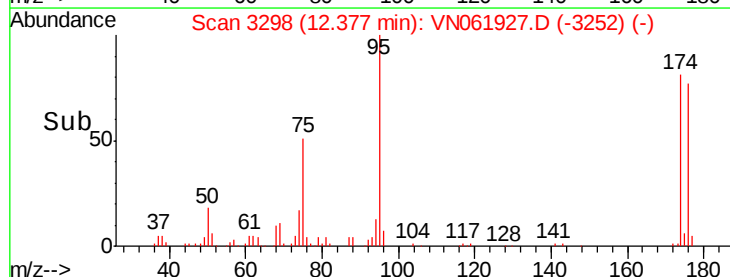
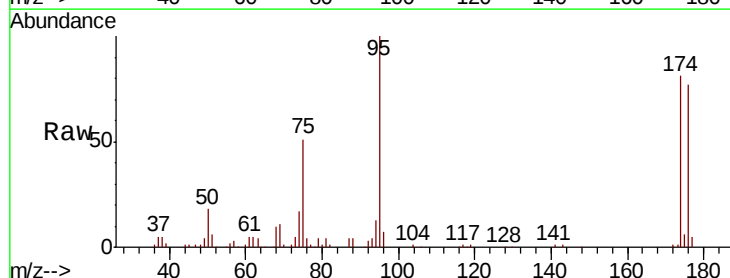
Acq: 19 Jun 2020 3:17

Tgt Ion: 75 Resp: 56253

Ion Ratio Lower Upper

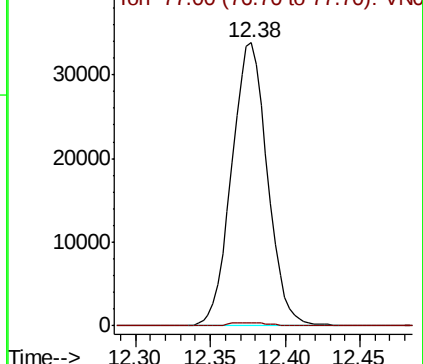
75 100

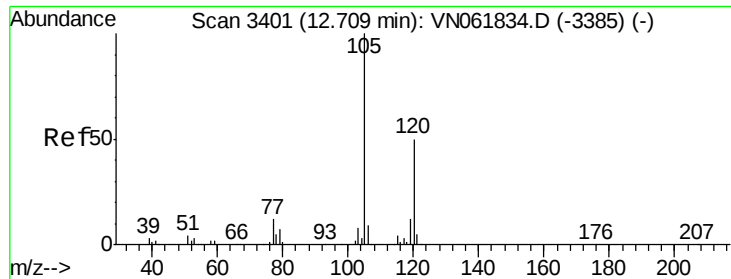
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

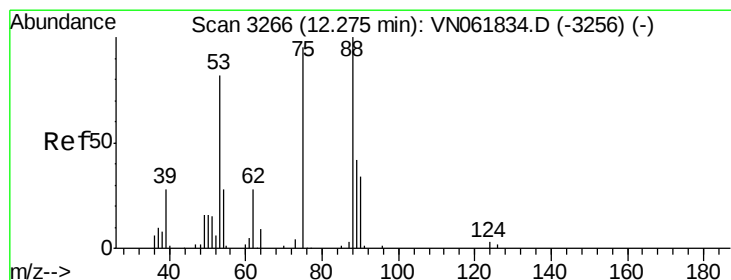
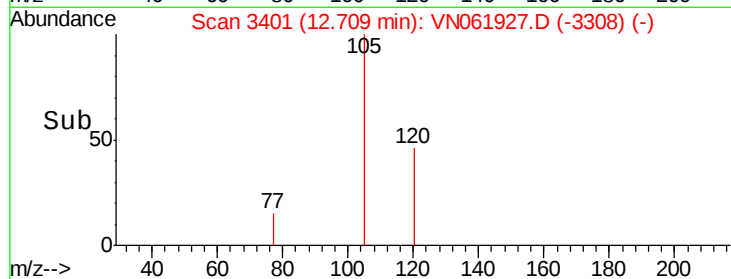
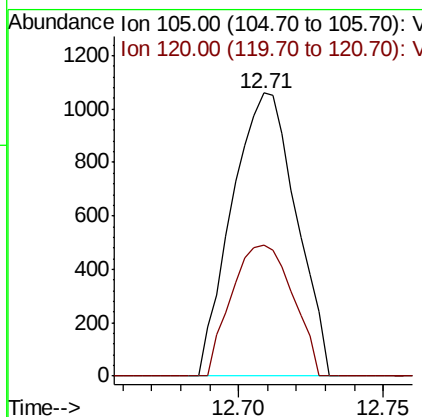
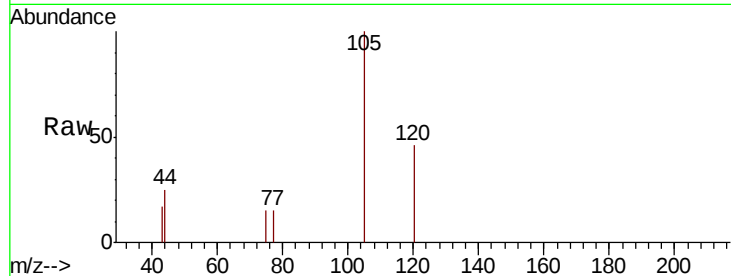




#80
 1,3,5-Trimethylbenzene
 Concen: 0.278 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#04

Tot Ion:105 Resp: 1628
 Ion Ratio Lower Upper
 105 100
 120 44.2 24.9 74.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.347 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061927.D
 Acq: 19 Jun 2020 3:17

Tgt Ion: 75 Resp: 56253
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 36.0 54.0#

