

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062620\
 Data File : VN062170.D
 Acq On : 27 Jun 2020 4:17
 Operator : JC/MD
 Sample : PB129754ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129754ZHE#01

Quant Time: Jun 27 06:54:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	210784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	410452	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	406286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	151106	50.00	ug/l	0.00

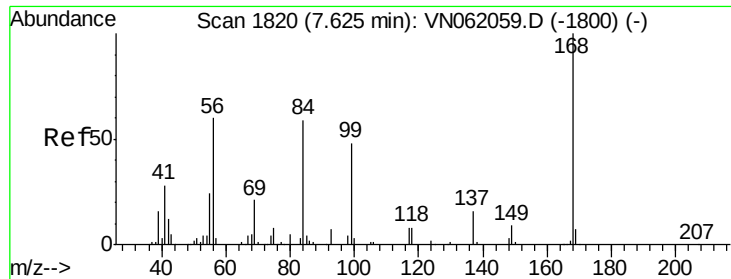
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	152209	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
35) Dibromofluoromethane	7.55	113	126916	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
50) Toluene-d8	10.06	98	528662	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
62) 4-Bromofluorobenzene	12.38	95	174413	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	

Target Compounds

						Qvalue
3) Chloromethane	2.03	50	241	Below Cal	#	41
8) Diethyl Ether	3.38	74	652	0.404	ug/l	97
11) Tert butyl alcohol	4.74	59	134	0.316	ug/l #	72
16) Acetone	3.78	43	16241	13.662	ug/l	99
18) Methyl Acetate	4.29	43	4863	2.068	ug/l #	46
20) Methylene Chloride	4.50	84	18946	6.790	ug/l	98
25) 2-Butanone	6.80	43	2337	1.616	ug/l #	84
29) Tetrahydrofuran	7.18	42	906	0.957	ug/l #	33
31) Cyclohexane	7.63	56	4952	1.212	ug/l #	31
36) 1,1-Dichloropropene	7.63	75	17636	4.275	ug/l #	48
38) Carbon Tetrachloride	7.63	117	21095	5.423	ug/l #	16
43) Isopropyl Acetate	8.13	43	58740	10.548	ug/l	99
44) Trichloroethene	8.81	130	702	0.221	ug/l	72
45) 1,2-Dichloropropane	9.23	63	1423	0.459	ug/l #	43
48) Methyl methacrylate	9.14	41	3184	1.275	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	7556	2.322	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	29710	5.972	ug/l #	67
56) Ethyl methacrylate	10.51	69	1210	0.301	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5569	1.073	ug/l #	42
59) 2-Hexanone	10.74	43	67165	28.586	ug/l #	49
71) Bromoform	12.37	173	450	0.205	ug/l #	1
74) N-amyl acetate	12.01	43	1533	3.675	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	90594	25.468	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3337	0.352	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	90594	74.376	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

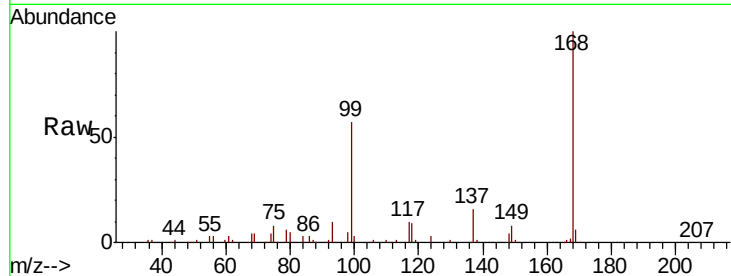
PB129754ZHE#01

Tot Ion:168 Resp: 210784

Ion Ratio Lower Upper

168 100

99 57.1 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

100000

80000

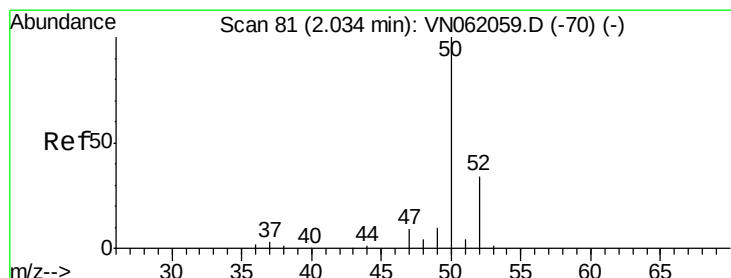
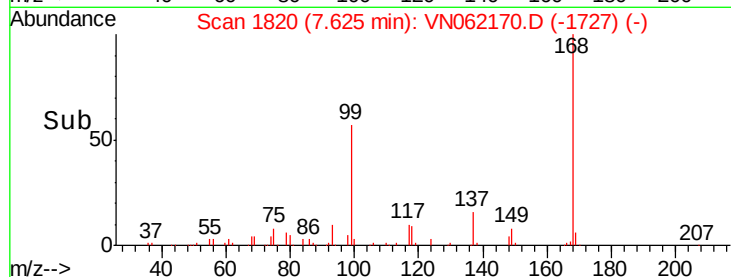
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062170.D

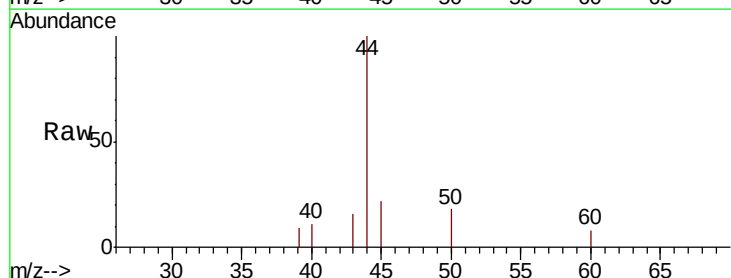
Acq: 27 Jun 2020 4:17

Tgt Ion: 50 Resp: 241

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

400

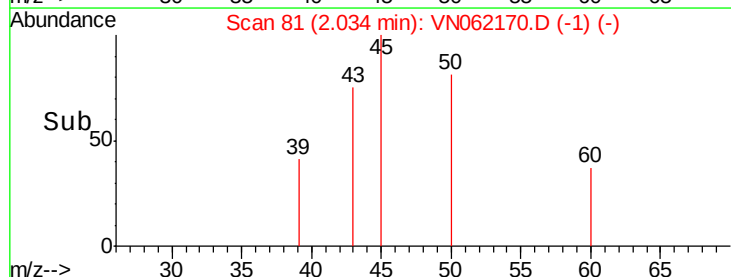
300

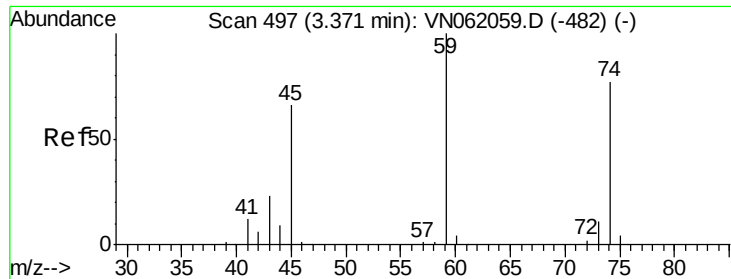
200

100

0

Time--> 2.01 2.02 2.03 2.04 2.05





#8

Diethyl Ether

Concen: 0.404 ug/l

RT: 3.38 min Scan# 500

Delta R.T. 0.01 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

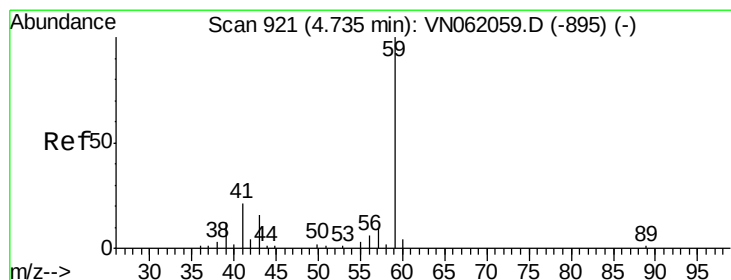
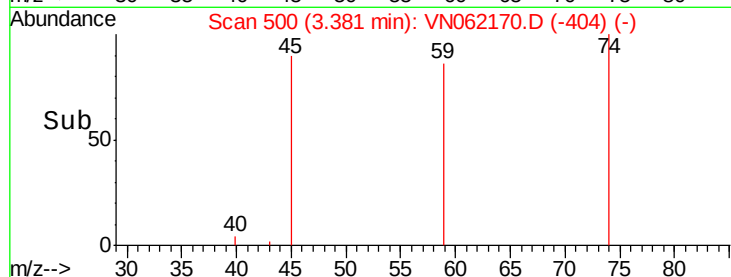
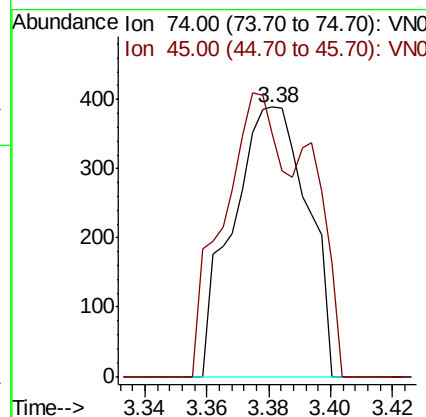
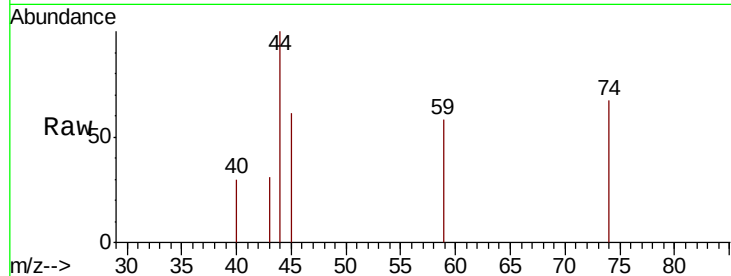
PB129754ZHE#01

Tot Ion: 74 Resp: 652

Ion Ratio Lower Upper

74 100

45 87.6 42.5 127.5



#11

Tert butyl alcohol

Concen: 0.316 ug/l

RT: 4.74 min Scan# 923

Delta R.T. 0.01 min

Lab File: VN062170.D

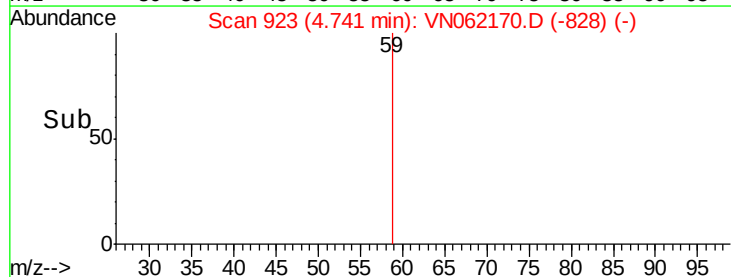
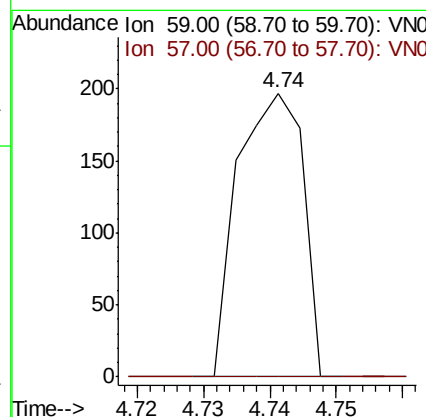
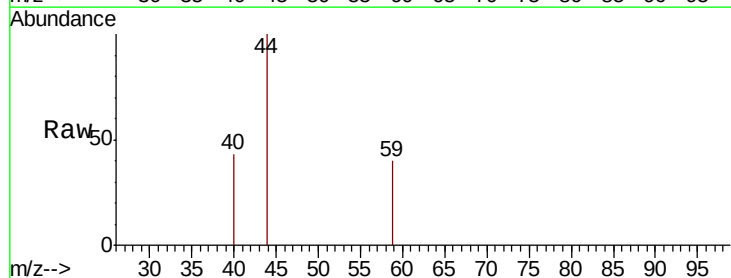
Acq: 27 Jun 2020 4:17

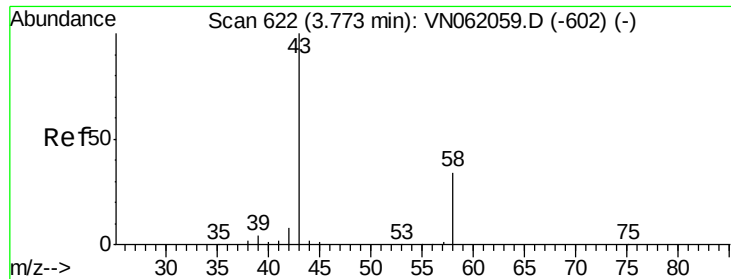
Tgt Ion: 59 Resp: 134

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#16

Acetone

Concen: 13.662 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

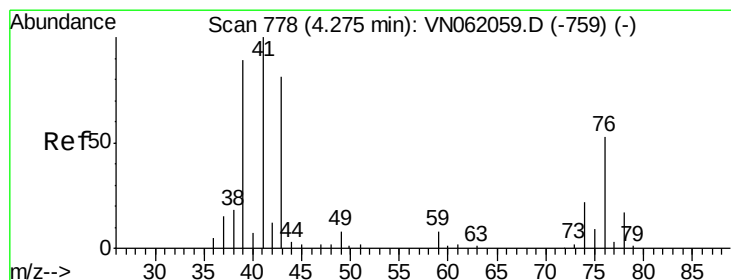
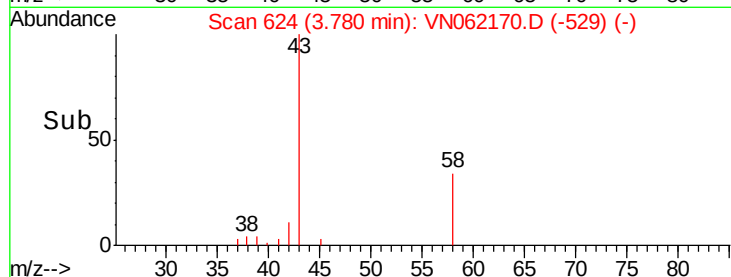
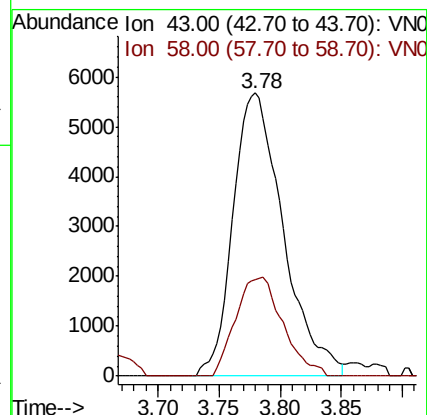
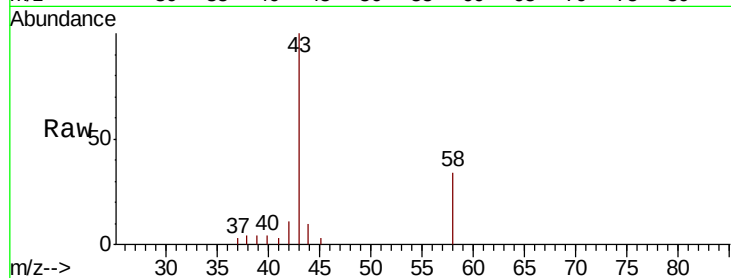
PB129754ZHE#01

Tot Ion: 43 Resp: 16241

Ion Ratio Lower Upper

43 100

58 33.9 27.5 41.3



#18

Methyl Acetate

Concen: 2.068 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.02 min

Lab File: VN062170.D

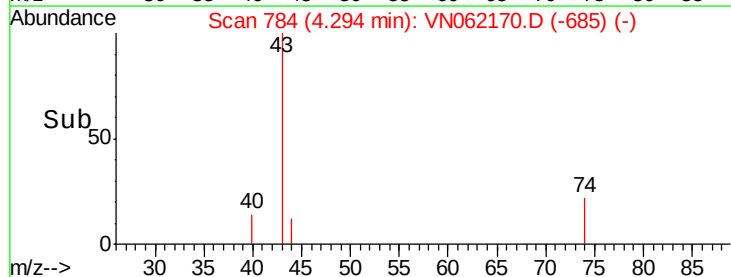
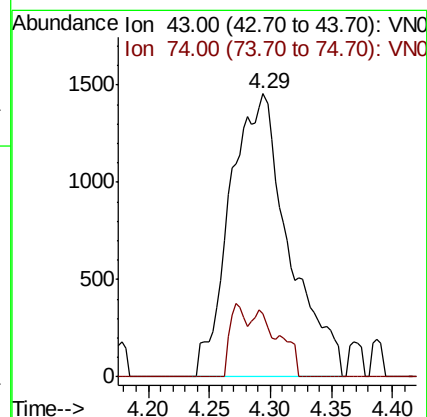
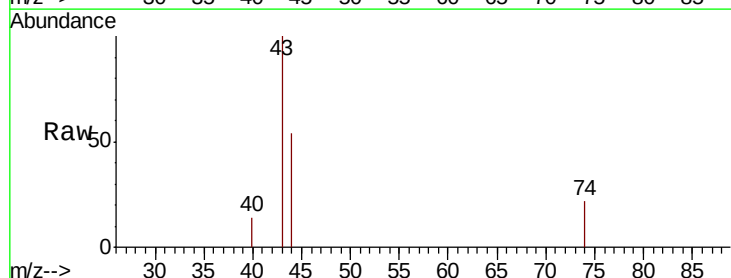
Acq: 27 Jun 2020 4:17

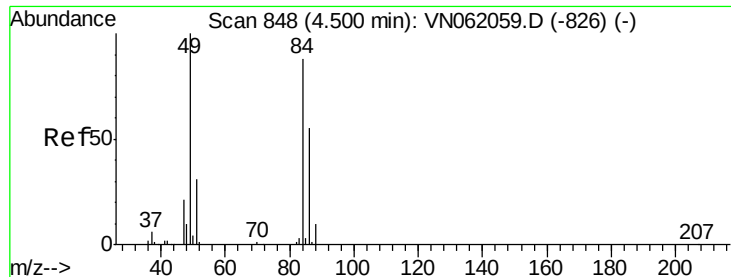
Tgt Ion: 43 Resp: 4863

Ion Ratio Lower Upper

43 100

74 0.0 22.9 34.3#

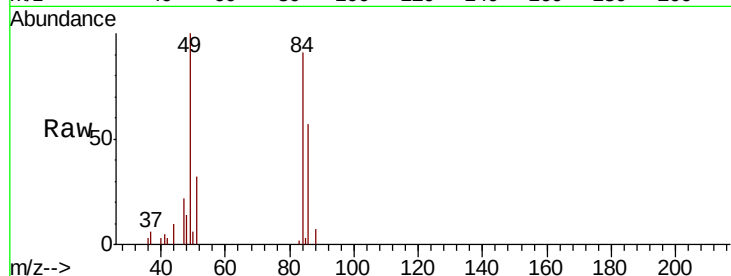




#20
Methylene Chloride
Concen: 6.790 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062170.D
Acq: 27 Jun 2020 4:17

Instrument :
MSVOA_N
ClientSampleId :
PB129754ZHE#01

Tot Ion:	84	Resp:	18946
Ion	Ratio	Lower	Upper
84	100		
49	110.5	90.6	136.0
51	35.5	27.8	41.8
86	62.5	50.1	75.1



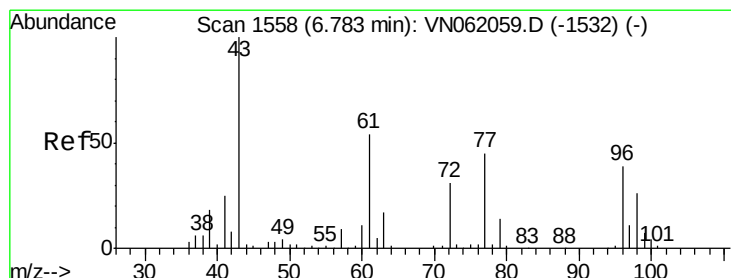
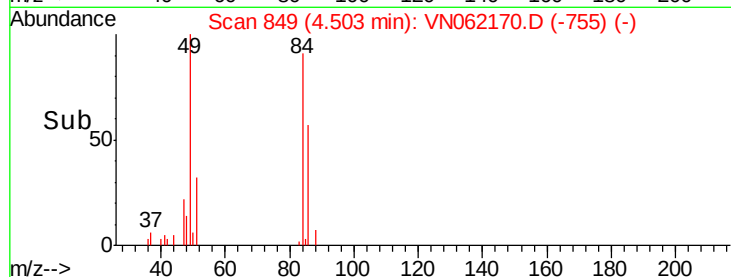
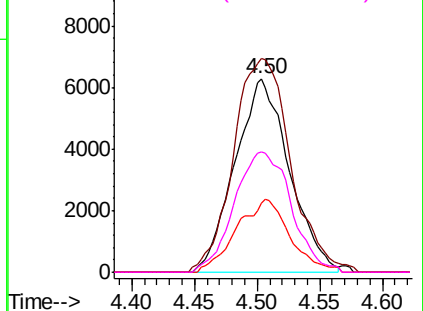
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

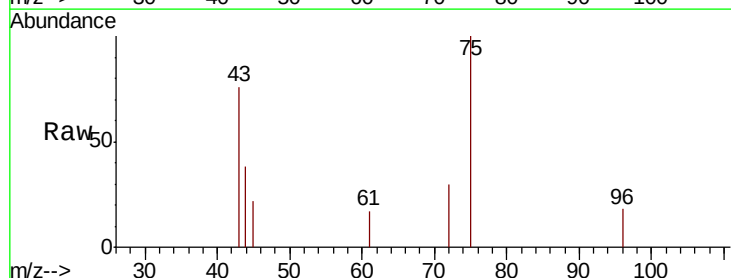
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 1.616 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.02 min
Lab File: VN062170.D
Acq: 27 Jun 2020 4:17

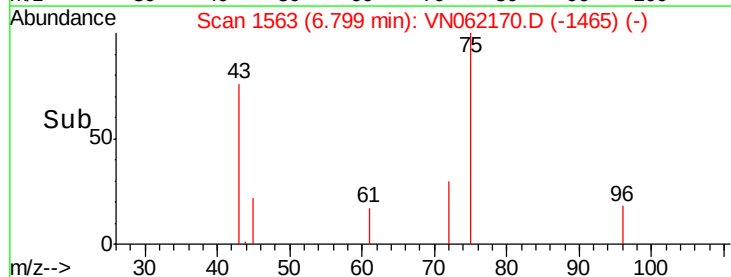
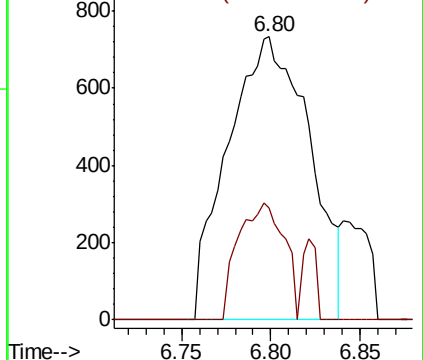
Tgt Ion:	43	Resp:	2337
Ion	Ratio	Lower	Upper
43	100		
72	39.6	24.8	37.2#

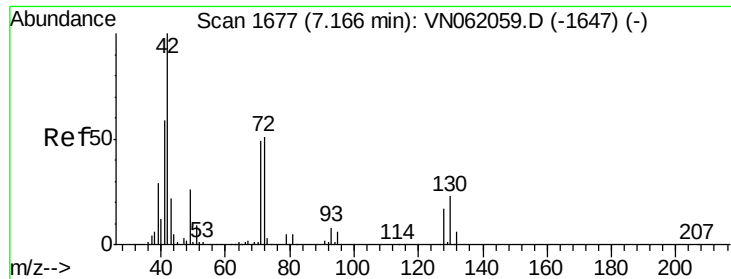


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.957 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.02 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

PB129754ZHE#01

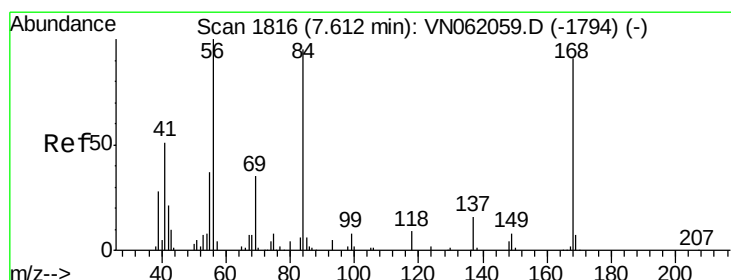
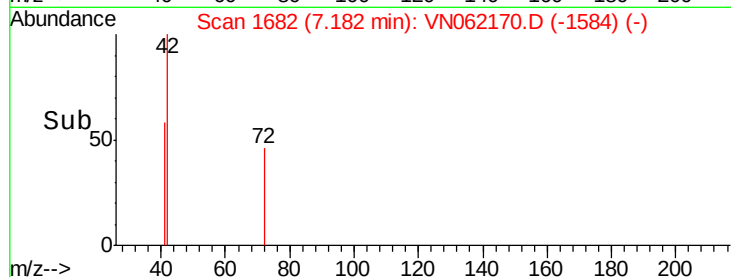
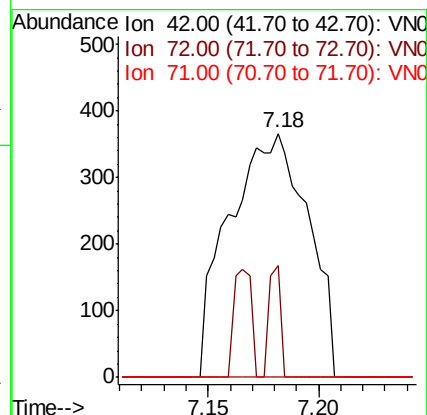
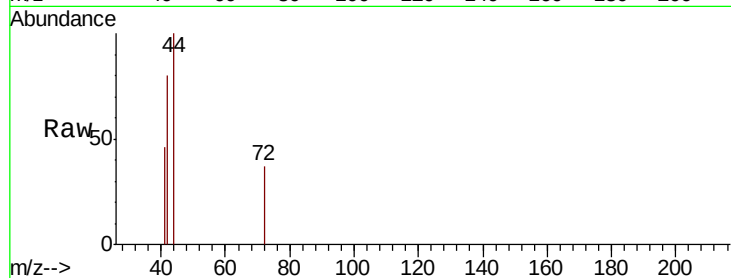
Tot Ion: 42 Resp: 906

Ion Ratio Lower Upper

42 100

72 6.8 41.1 61.7#

71 0.0 38.2 57.4#



#31

Cyclohexane

Concen: 1.212 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

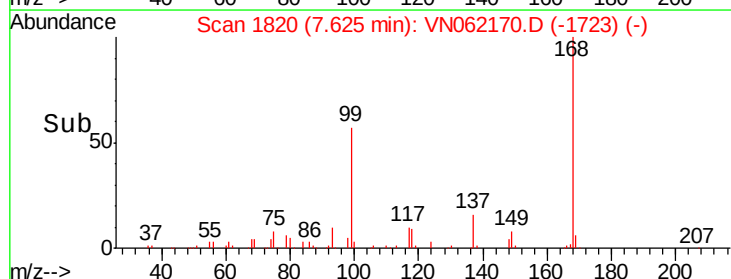
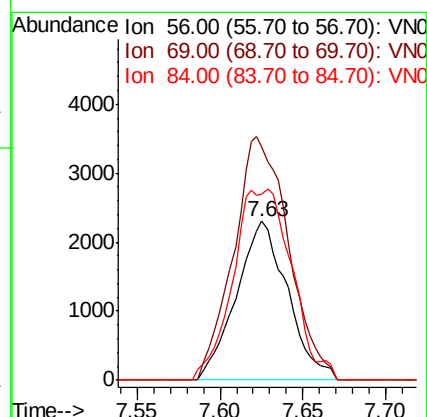
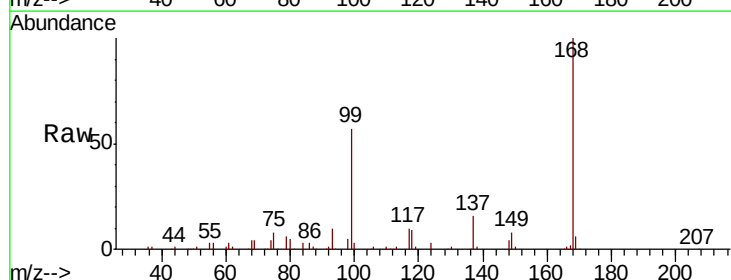
Tgt Ion: 56 Resp: 4952

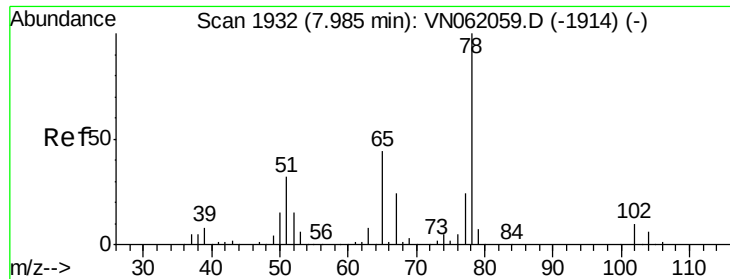
Ion Ratio Lower Upper

56 100

69 146.7 28.0 42.0#

84 117.4 76.1 114.1#

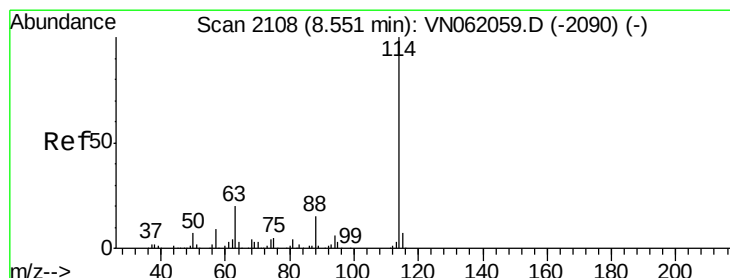
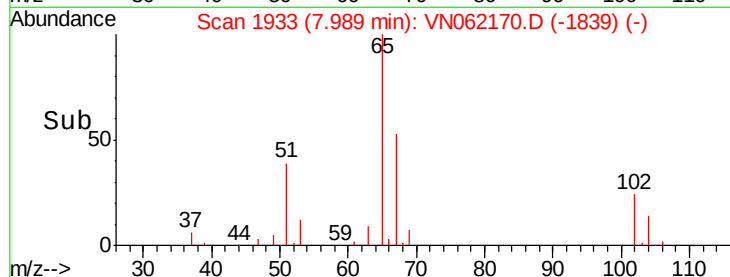
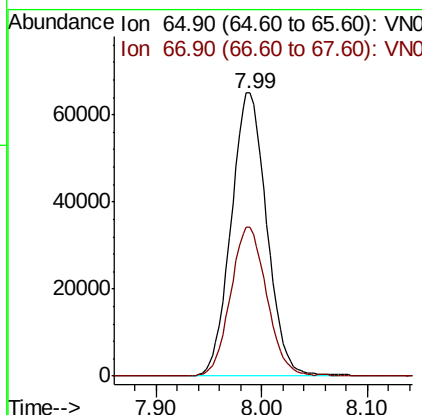
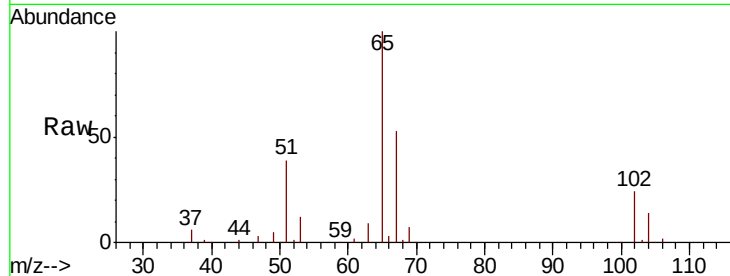




#33
 1,2-Dichloroethane-d4
 Concen: 51.457 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062170.D
 Acq: 27 Jun 2020 4:17

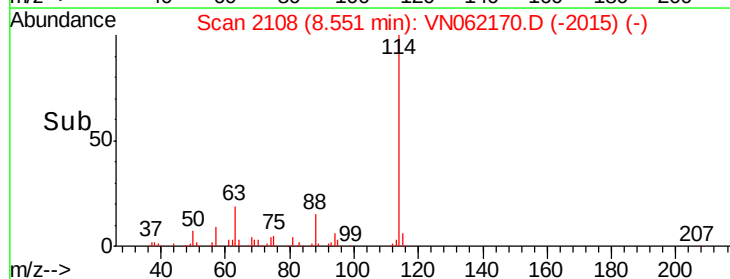
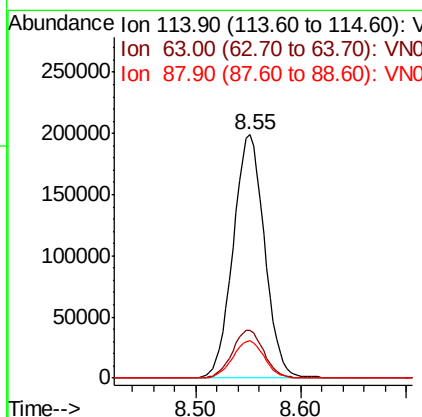
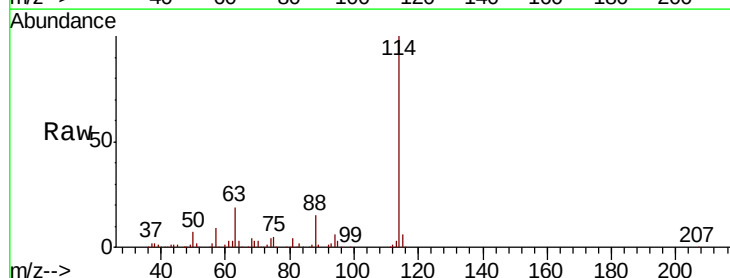
Instrument :
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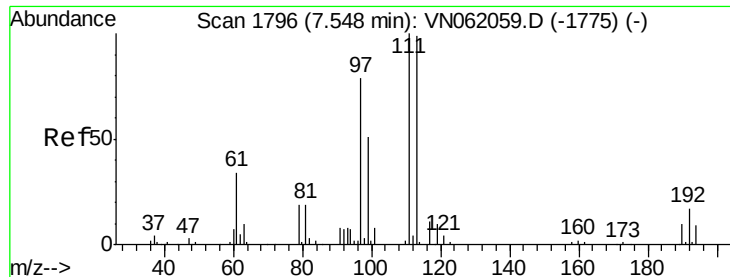
Tot Ion: 65 Resp: 152209
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062170.D
 Acq: 27 Jun 2020 4:17

Tgt Ion: 114 Resp: 410452
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.2
 88 15.3 0.0 30.8

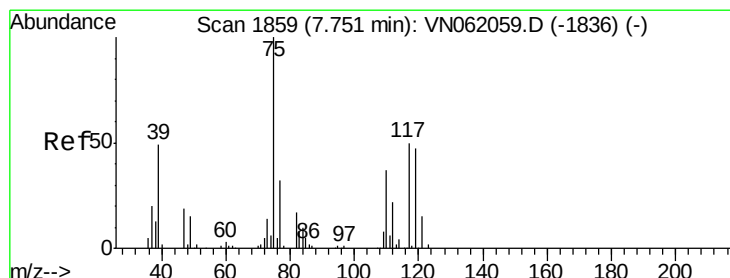
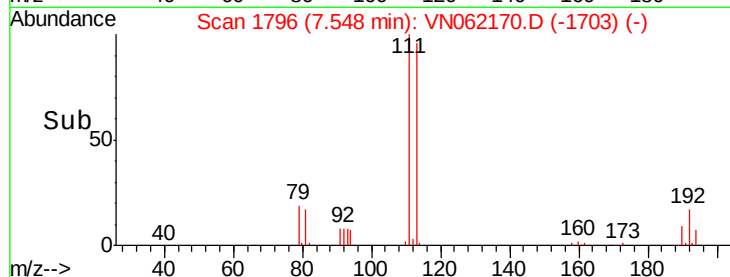
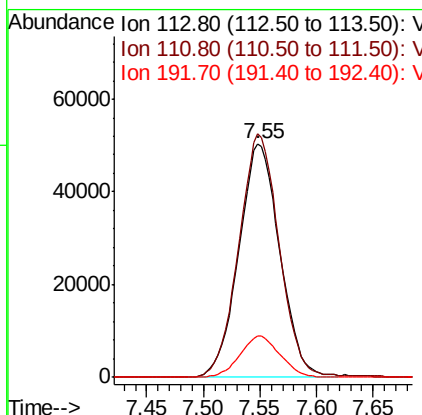
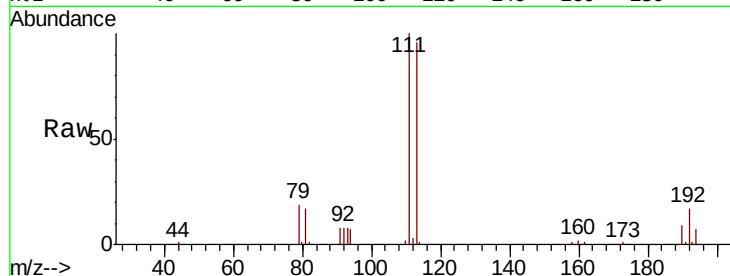




#35
 Dibromofluoromethane
 Concen: 48.198 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN062170.D
 Acq: 27 Jun 2020 4:17

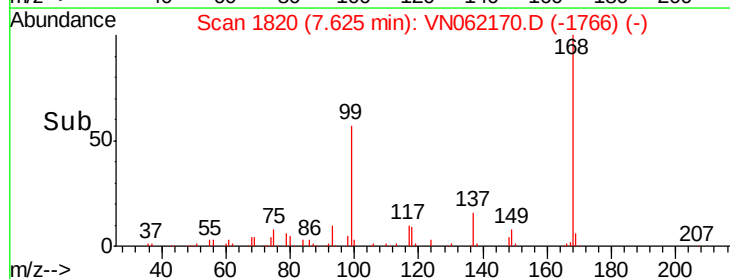
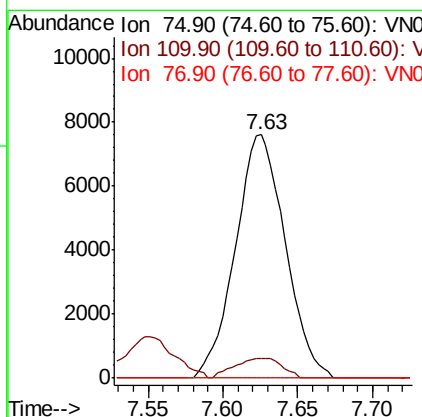
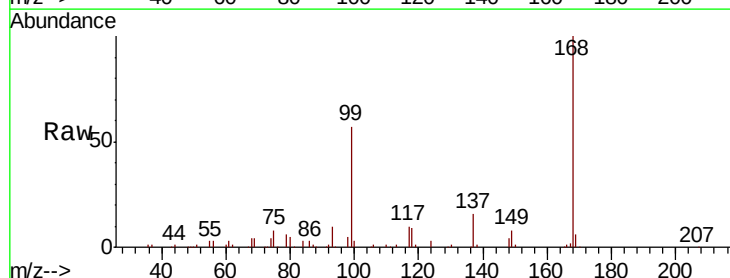
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129754ZHE#01

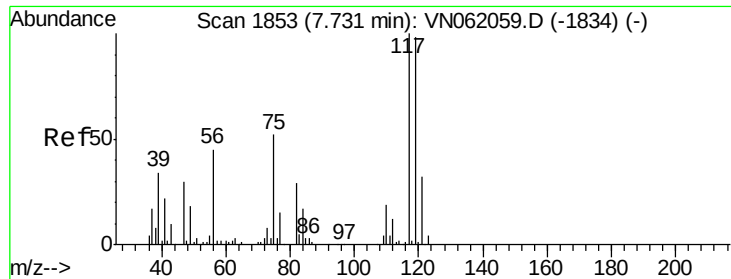
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.4
192	17.4	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.275 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062170.D
 Acq: 27 Jun 2020 4:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	17.9	53.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.423 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

PB129754ZHE#01

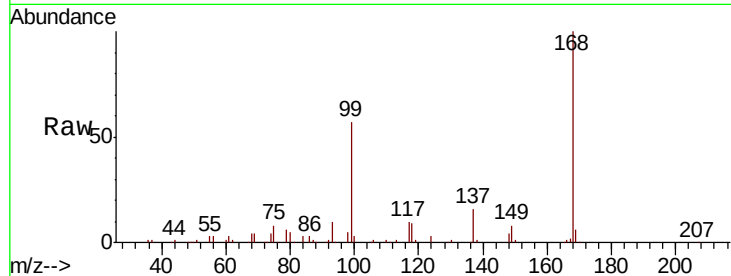
Tot Ion:117 Resp: 21095

Ion Ratio Lower Upper

117 100

119 5.8 78.2 117.2#

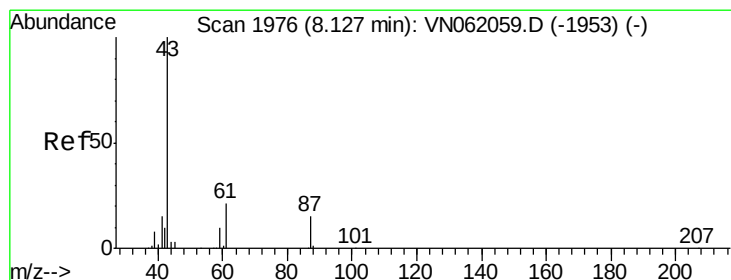
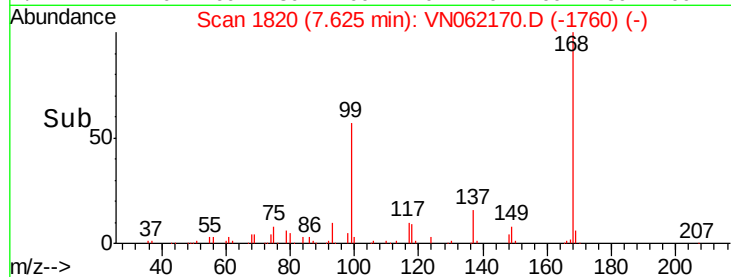
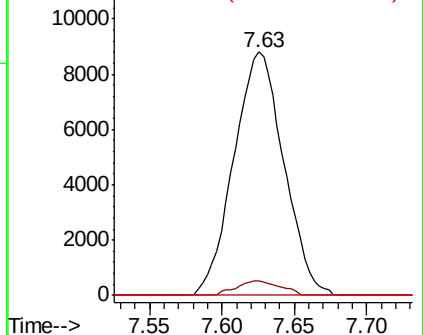
121 0.0 25.8 38.6#



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: 10.548 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

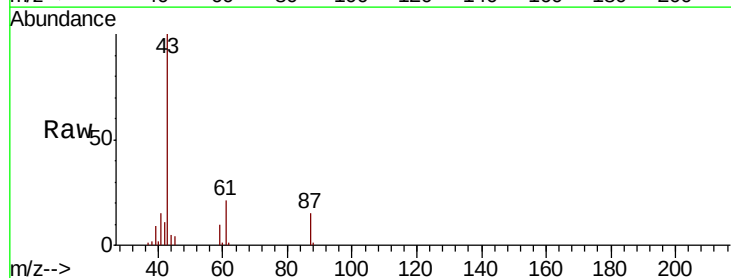
Tgt Ion: 43 Resp: 58740

Ion Ratio Lower Upper

43 100

61 21.1 17.2 25.8

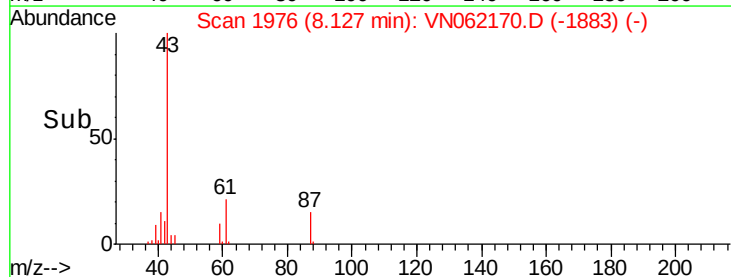
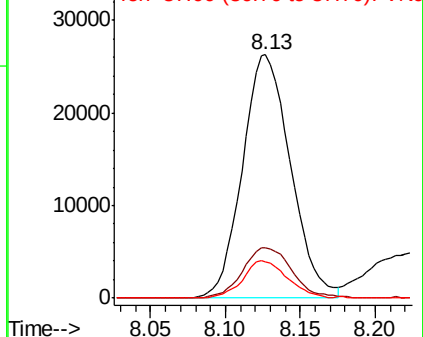
87 14.2 12.1 18.1

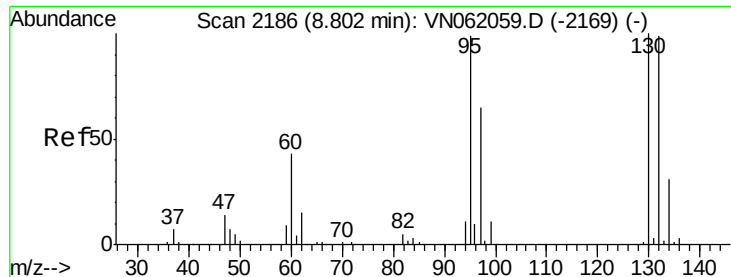


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 0.221 ug/l

RT: 8.81 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

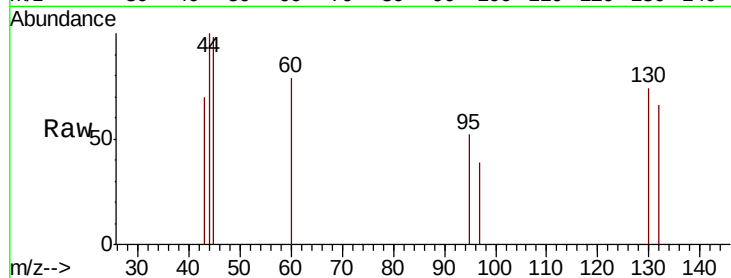
PB129754ZHE#01

Tot Ion:130 Resp: 702

Ion Ratio Lower Upper

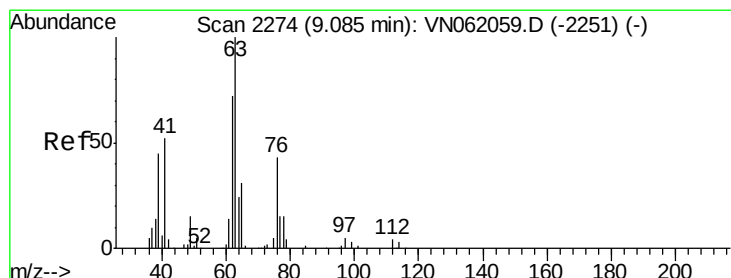
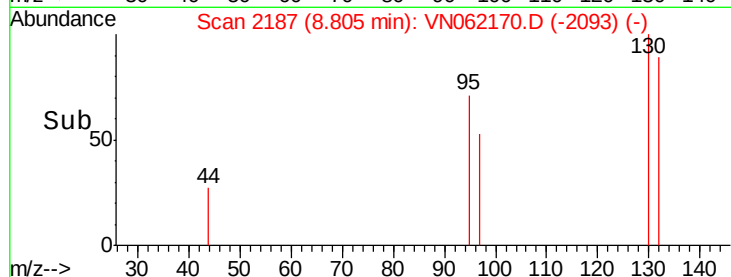
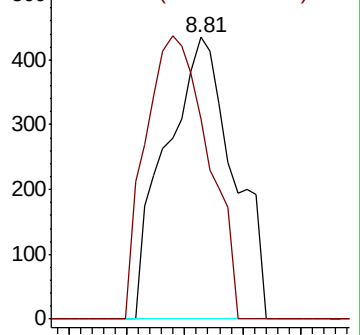
130 100

95 70.8 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062170.D

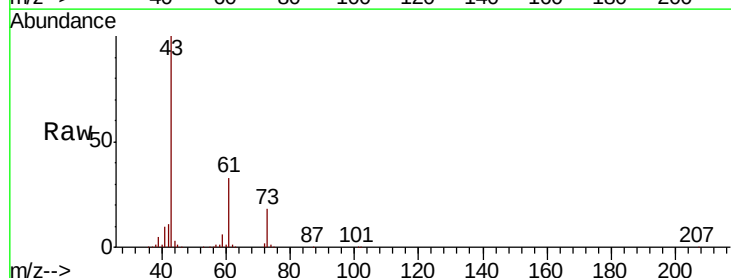
Acq: 27 Jun 2020 4:17

Tgt Ion: 63 Resp: 1423

Ion Ratio Lower Upper

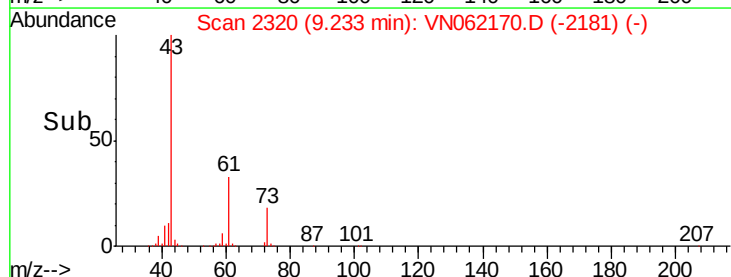
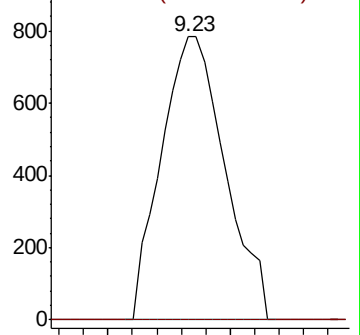
63 100

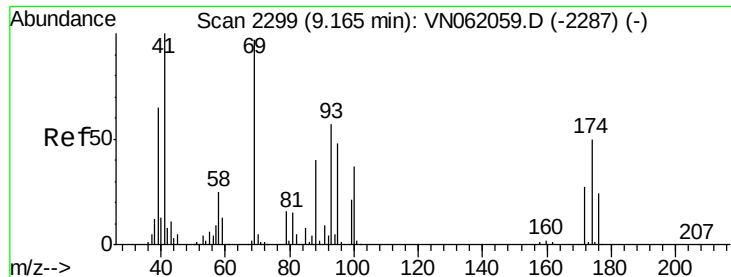
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN

Ion 64.90 (64.60 to 65.60): VN

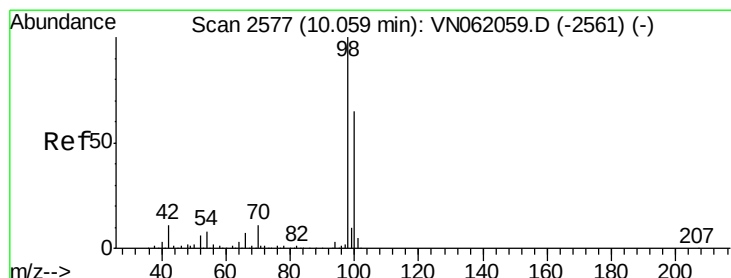
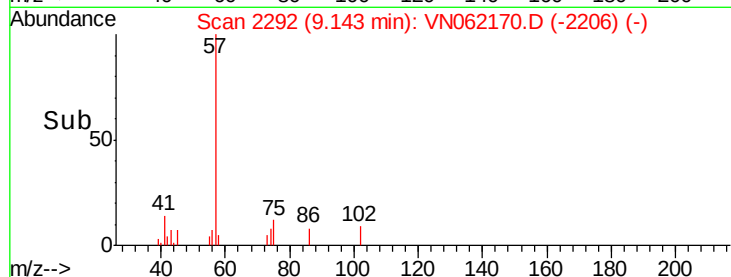
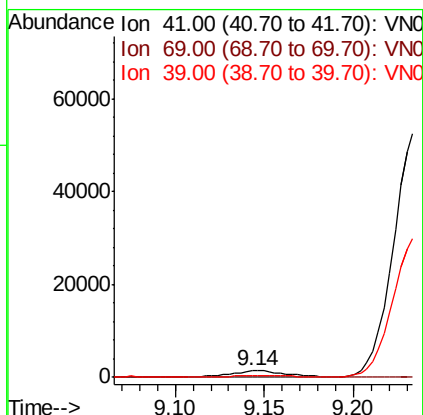
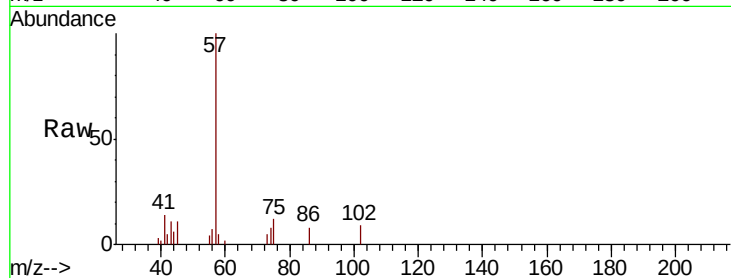




#48
Methvl methacrylate
Concen: 1.275 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN062170.D
Acq: 27 Jun 2020 4:17

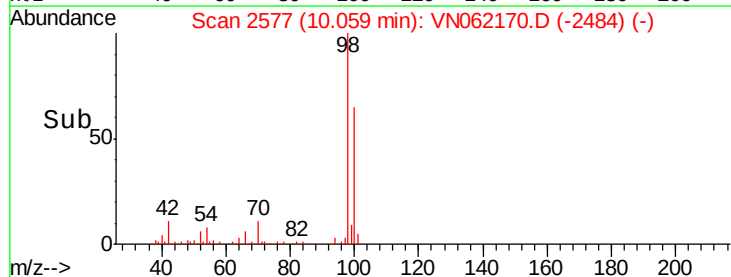
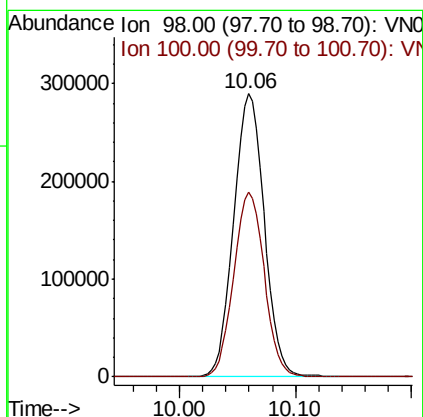
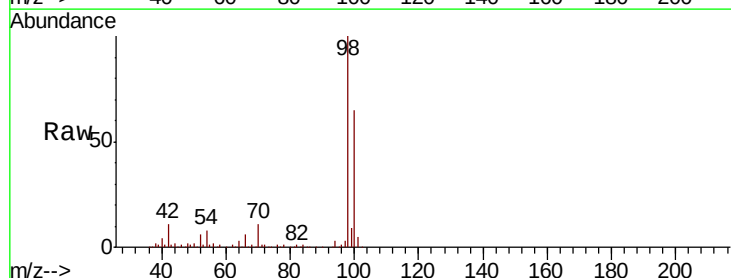
Instrument :
MSVOA_N
ClientSampleId :
PB129754ZHE#01

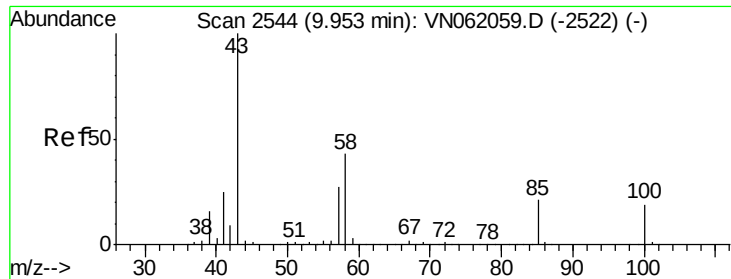
Tot Ion: 41 Resp: 3184
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#



#50
Toluene-d8
Concen: 50.225 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062170.D
Acq: 27 Jun 2020 4:17

Tgt Ion: 98 Resp: 528662
Ion Ratio Lower Upper
98 100
100 65.1 51.2 76.8

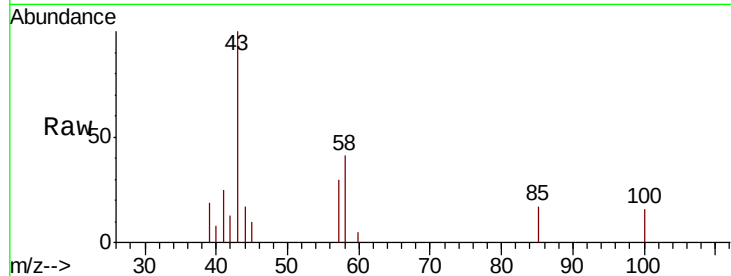




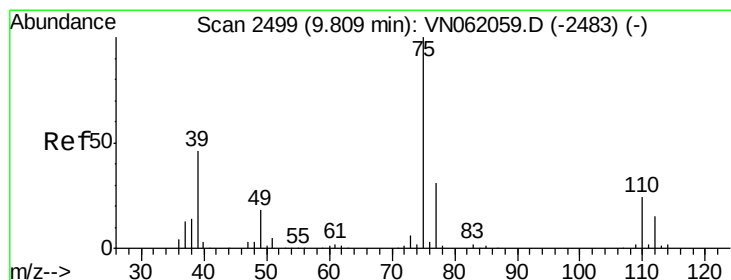
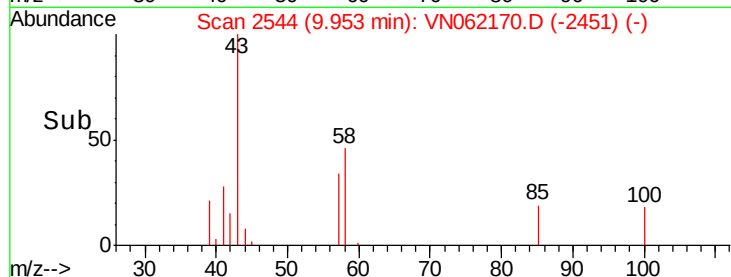
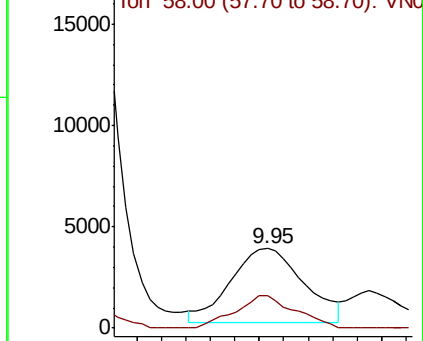
#51
4-Methyl-2-Pentanone
Concen: 2.322 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN062170.D
Acq: 27 Jun 2020 4:17

Instrument :
MSVOA_N
ClientSampleId :
PB129754ZHE#01

Tot Ion: 43 Resp: 7556
Ion Ratio Lower Upper
43 100
58 36.4 34.2 51.2

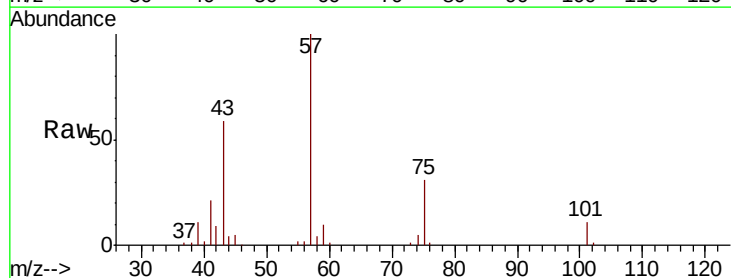


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

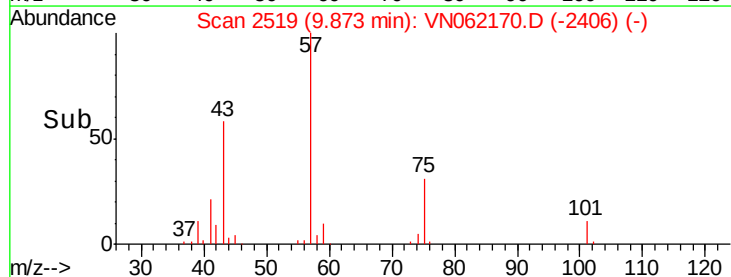
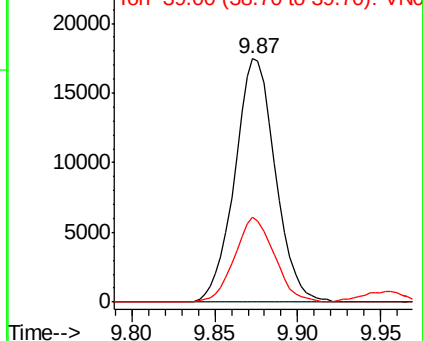


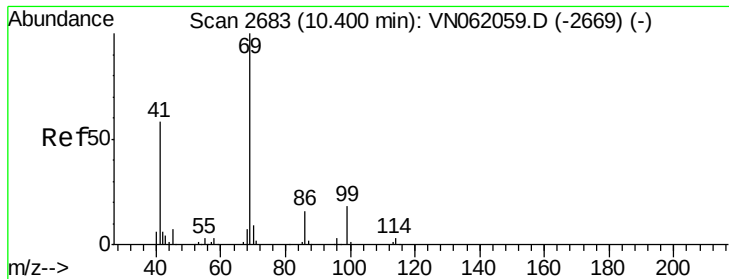
#54
cis-1,3-Dichloropropene
Concen: 5.972 ug/l
RT: 9.87 min Scan# 2519
Delta R.T. 0.06 min
Lab File: VN062170.D
Acq: 27 Jun 2020 4:17

Tgt Ion: 75 Resp: 29710
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 34.7 36.9 55.3#



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: 0.301 ug/l

RT: 10.51 min Scan# 2717

Delta R.T. 0.11 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

PB129754ZHE#01

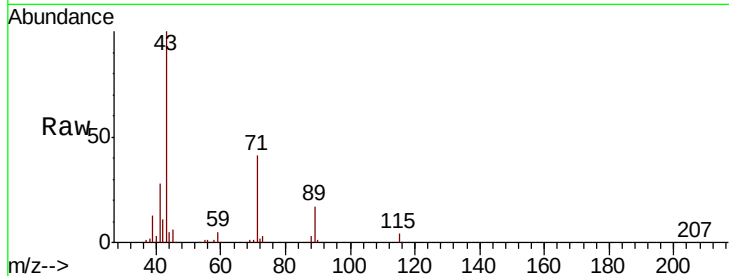
Tot Ion: 69 Resp: 1210

Ion Ratio Lower Upper

69 100

41 5039.1 46.6 70.0#

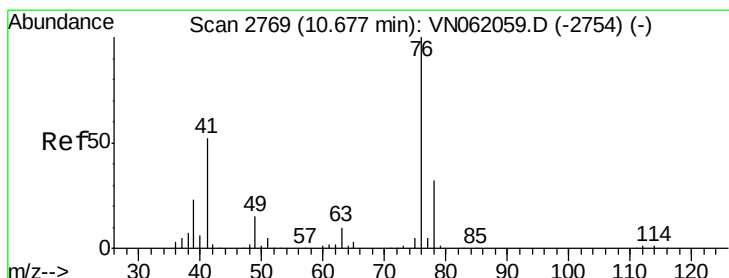
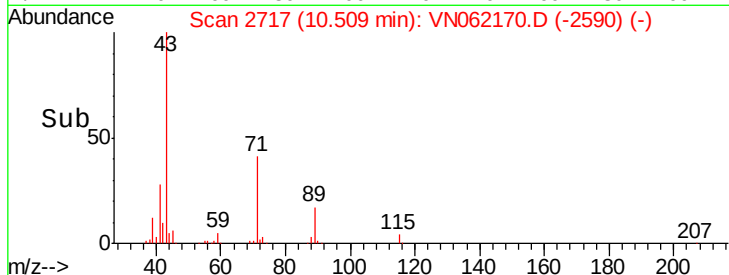
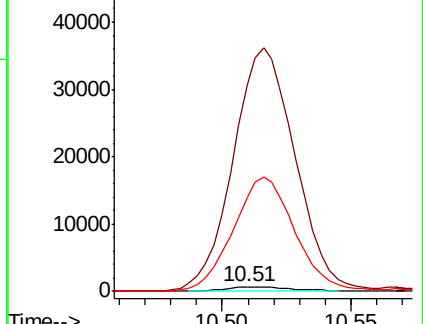
39 2342.2 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062170.D (-2590) (-)

Ion 41.00 (40.70 to 41.70): VN062170.D (-2590) (-)

Ion 39.00 (38.70 to 39.70): VN062170.D (-2590) (-)



#57

1,3-Dichloropropane

Concen: 1.073 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062170.D

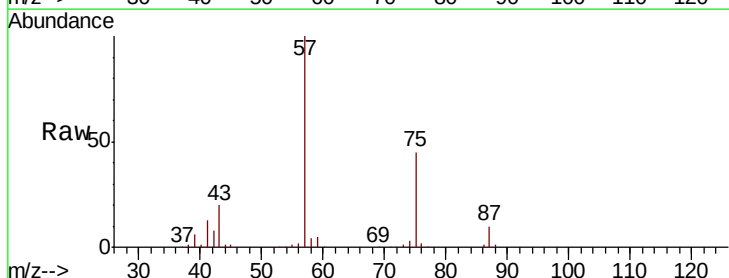
Acq: 27 Jun 2020 4:17

Tgt Ion: 76 Resp: 5569

Ion Ratio Lower Upper

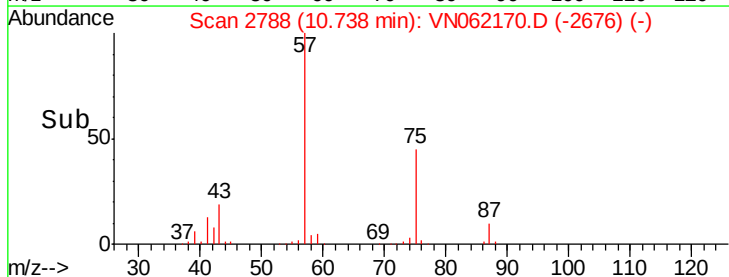
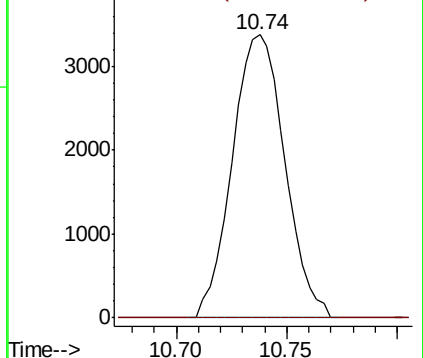
76 100

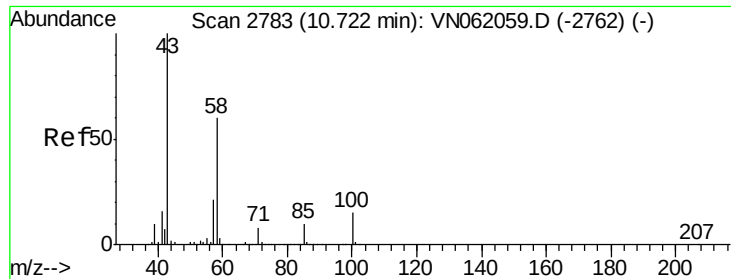
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062170.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062170.D (-2676) (-)





#59

2-Hexanone

Concen: 28.586 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

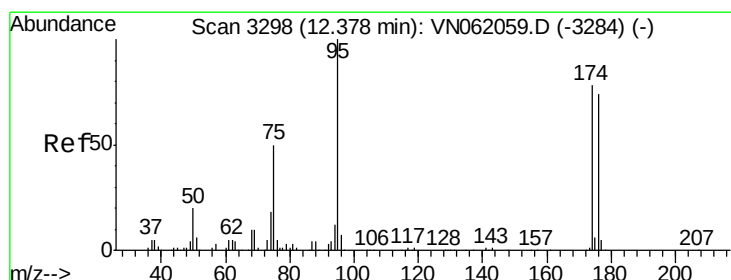
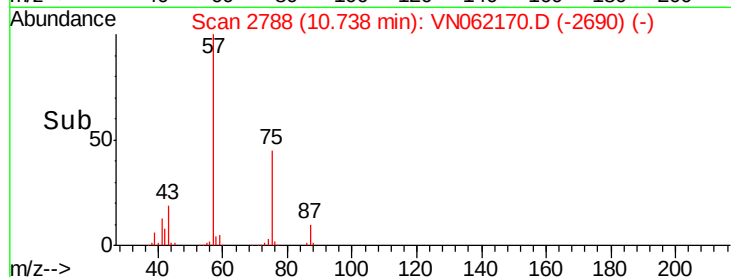
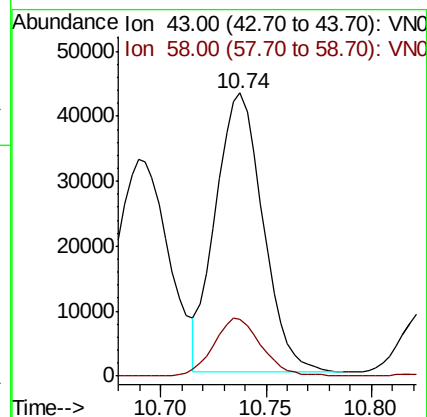
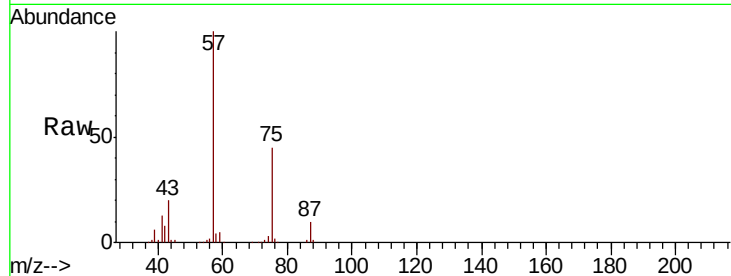
PB129754ZHE#01

Tot Ion: 43 Resp: 67165

Ion Ratio Lower Upper

43 100

58 20.9 29.5 88.5#



#62

4-Bromofluorobenzene

Concen: 49.044 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

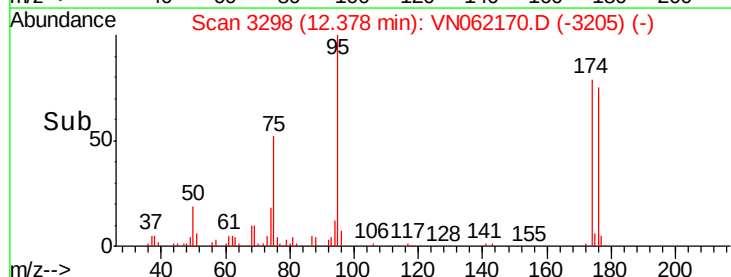
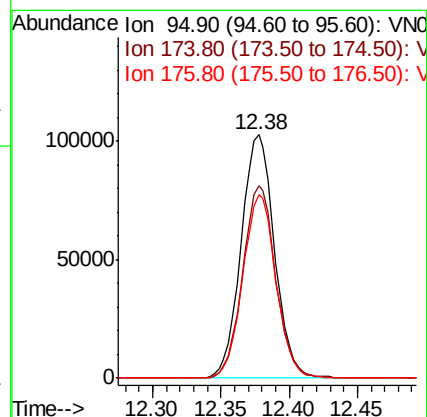
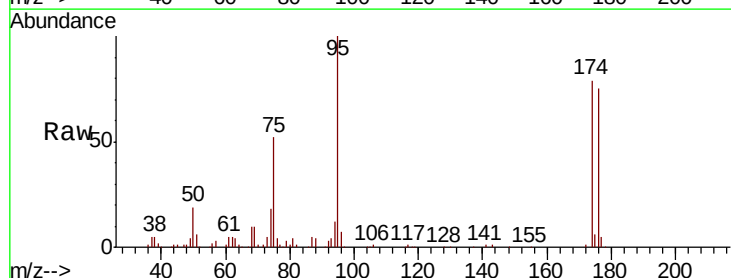
Tgt Ion: 95 Resp: 174413

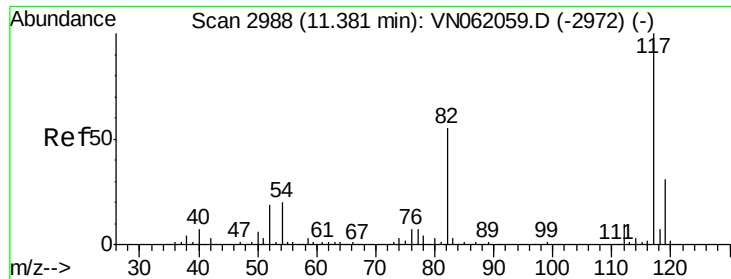
Ion Ratio Lower Upper

95 100

174 78.1 0.0 154.8

176 75.0 0.0 147.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

PB129754ZHE#01

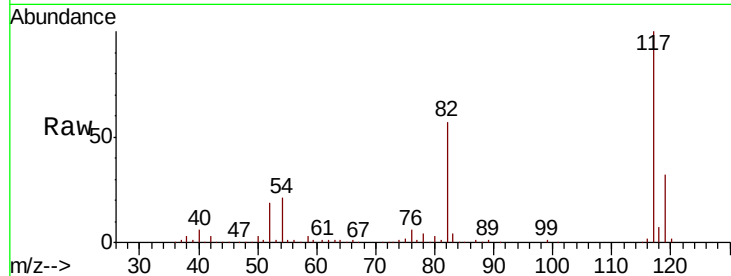
Tot Ion:117 Resp: 406286

Ion Ratio Lower Upper

117 100

82 56.5 43.8 65.8

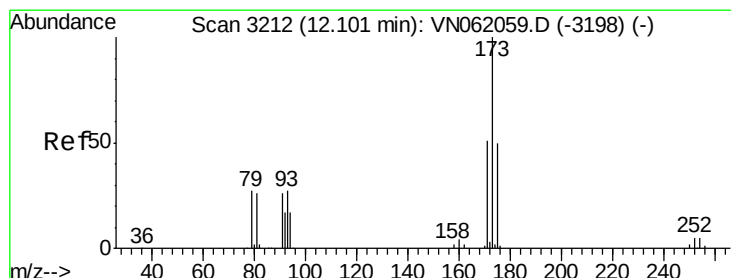
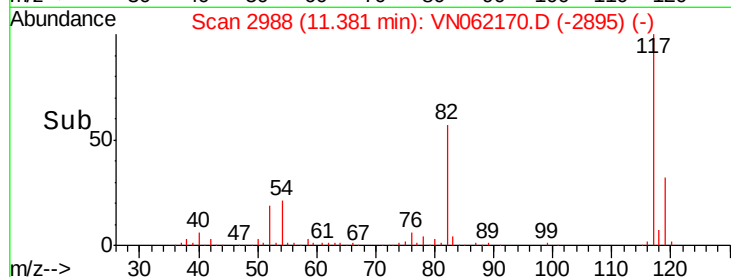
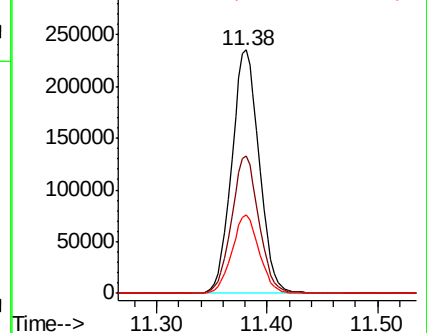
119 32.1 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.205 ug/l

RT: 12.37 min Scan# 3296

Delta R.T. 0.27 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

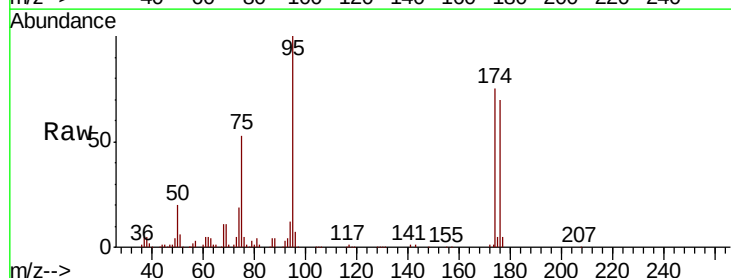
Tgt Ion:173 Resp: 450

Ion Ratio Lower Upper

173 100

175 1826.7 24.7 74.1#

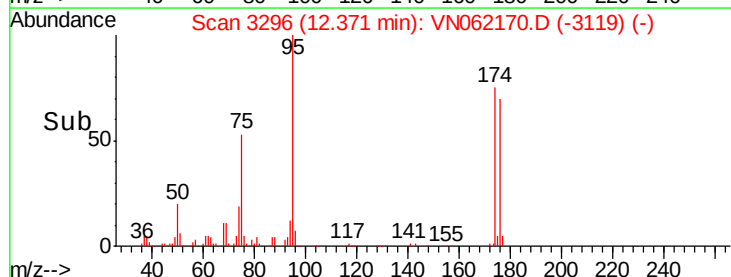
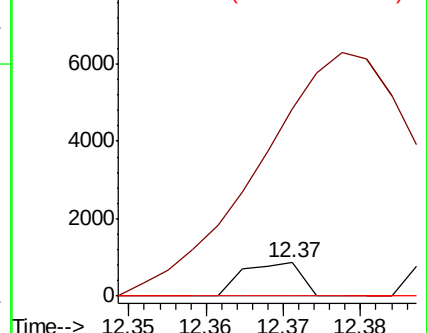
254 0.0 0.0 0.0

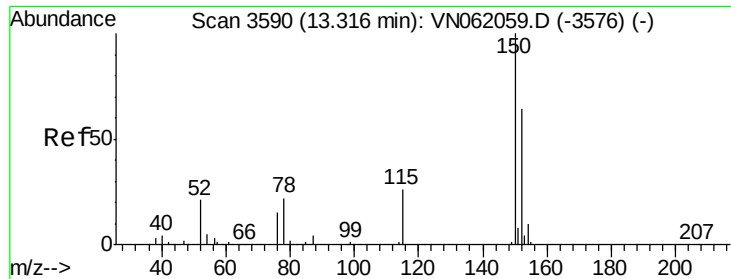


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

PB129754ZHE#01

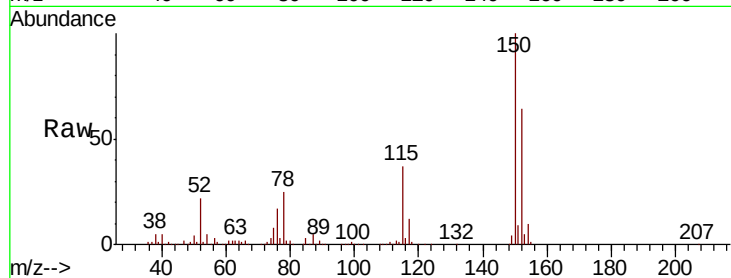
Tot Ion:152 Resp: 151106

Ion Ratio Lower Upper

152 100

115 58.8 29.5 88.5

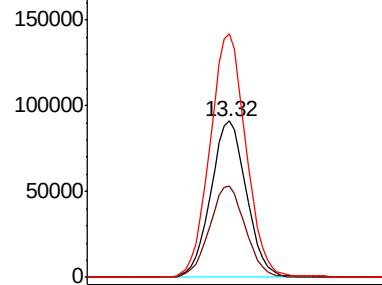
150 157.8 0.0 351.4



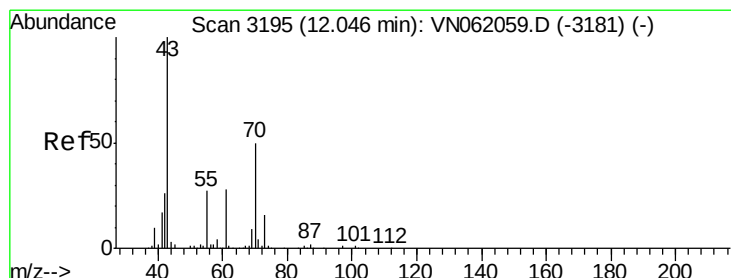
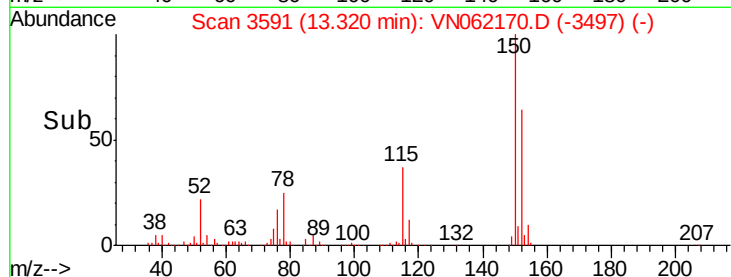
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#74

N-ethyl acetate

Concen: 3.675 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.03 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Tgt Ion: 43 Resp: 1533

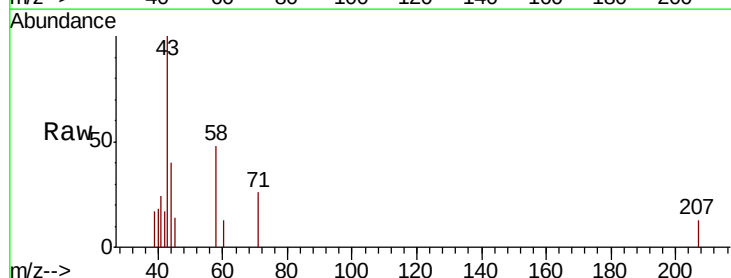
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

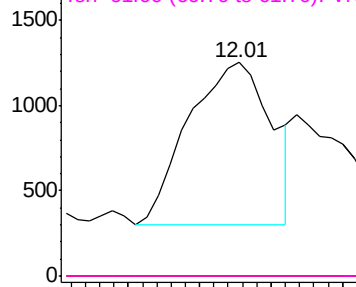


Abundance Ion 43.00 (42.70 to 43.70): V

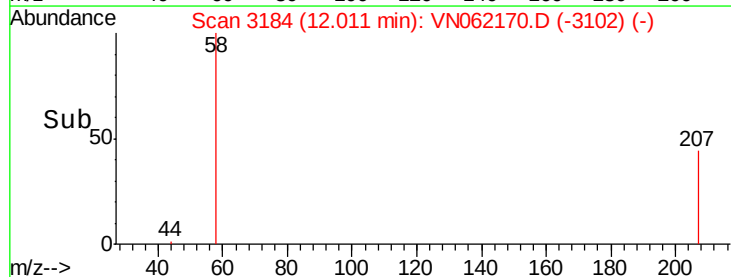
Ion 70.00 (69.70 to 70.70): V

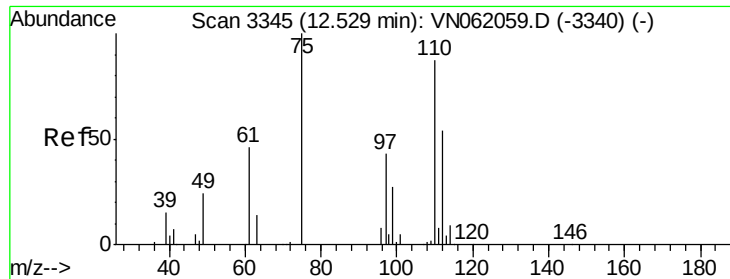
Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V



Time-->

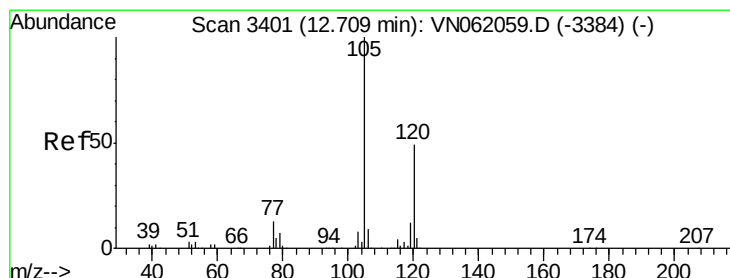
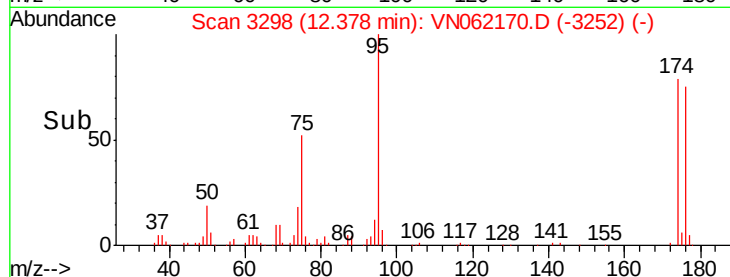
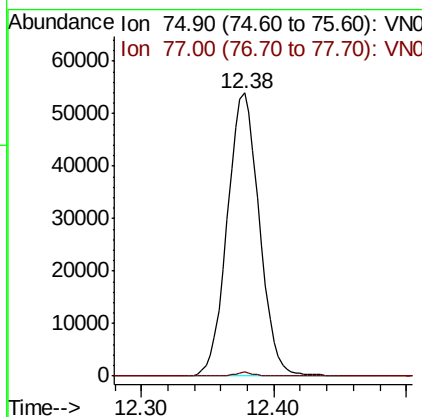
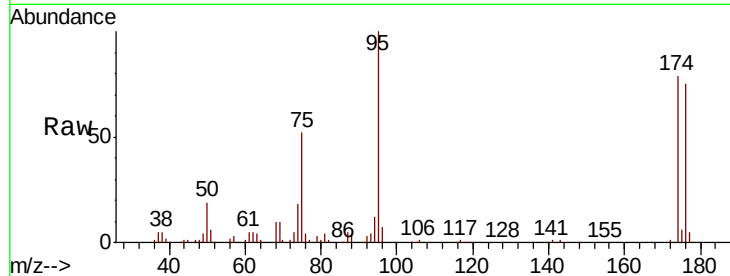




#76
 1,2,3-Trichloropropane
 Concen: 25.468 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062170.D
 Acq: 27 Jun 2020 4:17

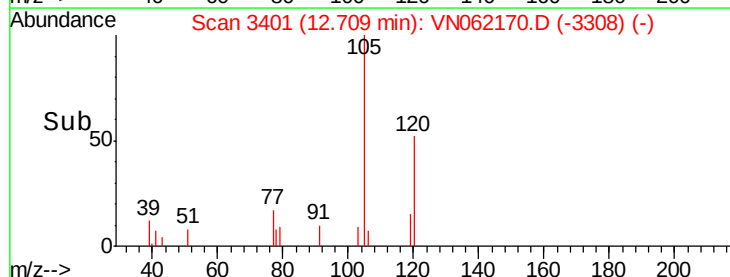
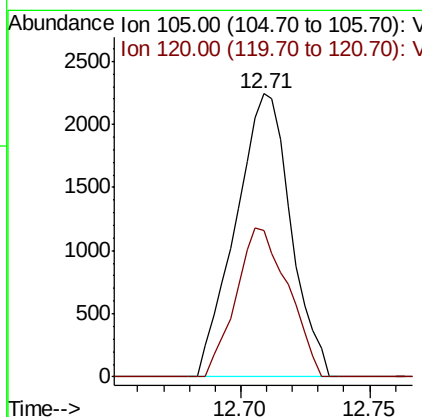
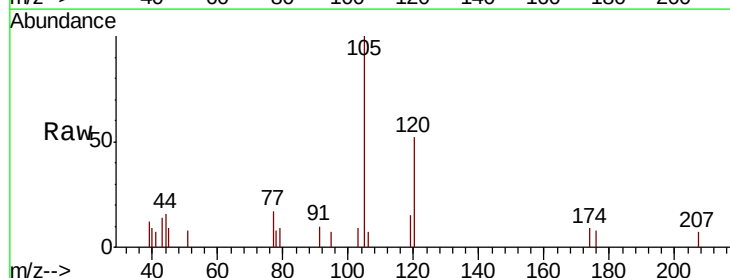
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129754ZHE#01

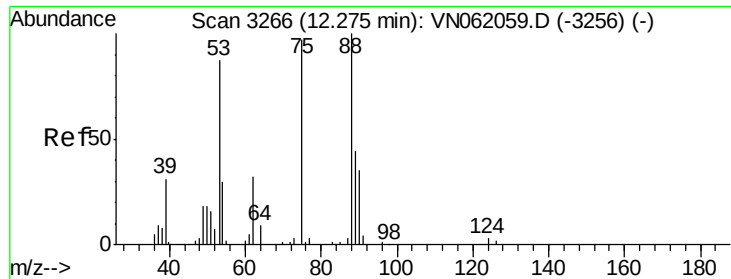
Tot Ion: 75 Resp: 90594
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.352 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN062170.D
 Acq: 27 Jun 2020 4:17

Tgt Ion: 105 Resp: 3337
 Ion Ratio Lower Upper
 105 100
 120 49.9 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 74.376 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062170.D

Acq: 27 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

PB129754ZHE#01

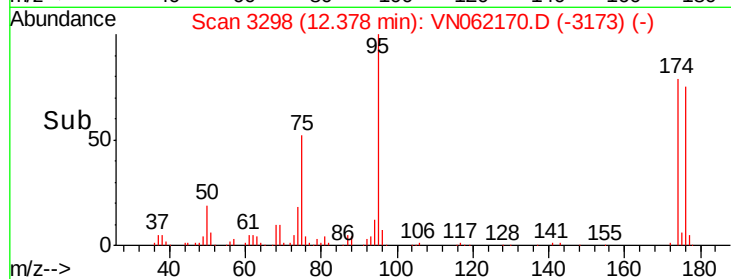
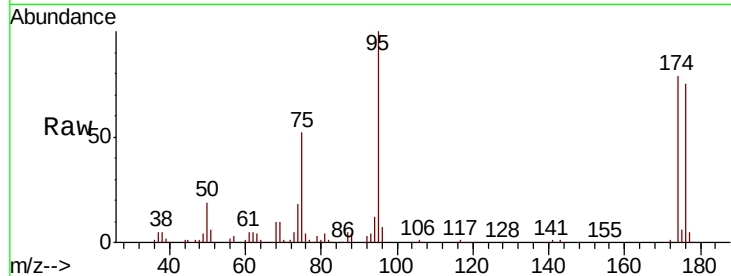
Tot Ion: 75 Resp: 90594

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



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

