

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061951.D
 Acq On : 19 Jun 2020 14:49
 Operator : JC/MD
 Sample : L2984-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0566

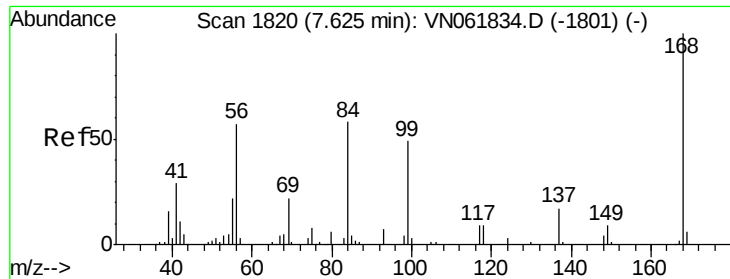
Quant Time: Jun 20 07:34:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	153012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	276934	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	263274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	104812	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	100723	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
35) Dibromofluoromethane	7.55	113	88677	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
50) Toluene-d8	10.06	98	344811	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.38	95	112785	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	711	0.281	ug/l #	43
14) Allyl chloride	4.02	41	899	0.436	ug/l #	68
16) Acetone	3.78	43	16057	26.490	ug/l	99
18) Methyl Acetate	4.27	43	477	0.273	ug/l #	58
25) 2-Butanone	6.79	43	69926	79.067	ug/l	98
27) cis-1,2-Dichloroethene	6.78	96	1767	0.858	ug/l	85
29) Tetrahydrofuran	7.14	42	202	0.347	ug/l #	54
31) Cyclohexane	7.63	56	3342	1.236	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	11759	4.655	ug/l #	48
37) Ethyl Acetate	6.79	43	69926	35.450	ug/l #	69
38) Carbon Tetrachloride	7.63	117	15482	6.189	ug/l #	17
41) Methacrylonitrile	7.15	41	2724	3.229	ug/l #	100
44) Trichloroethene	8.80	130	3361	1.669	ug/l	94
48) Methyl methacrylate	9.13	41	918	0.607	ug/l #	29
51) 4-Methyl-2-Pentanone	9.96	43	885	0.451	ug/l #	54
52) Toluene	10.13	92	10872	2.262	ug/l	95
59) 2-Hexanone	10.73	43	340	13.612	ug/l #	20
74) N-amyl acetate	12.04	43	127	3.108	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	56887	27.646	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	56887	75.401	ug/l #	14
95) Naphthalene	15.11	128	357	3.547	ug/l #	69

(#) = 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: VN061951.D

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MSVOA_N

ClientSampleId :

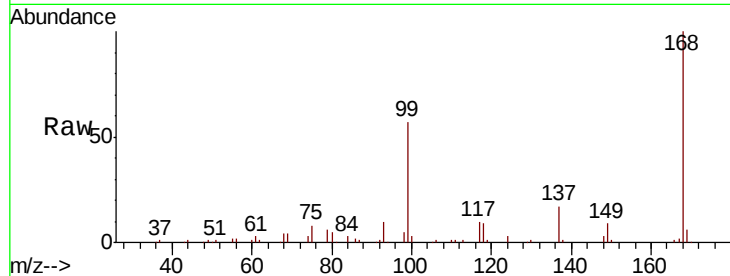
S49-0566

Tot Ion:168 Resp: 153012

Ion Ratio Lower Upper

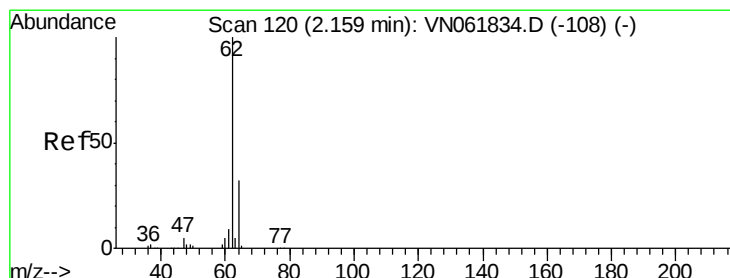
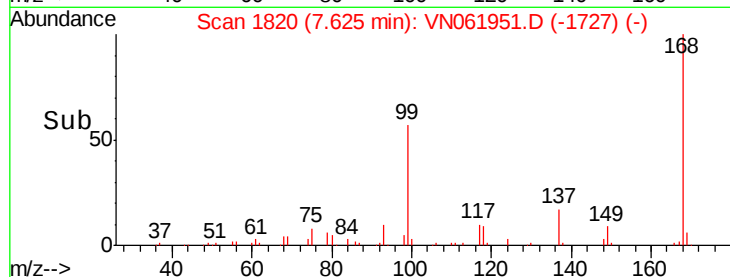
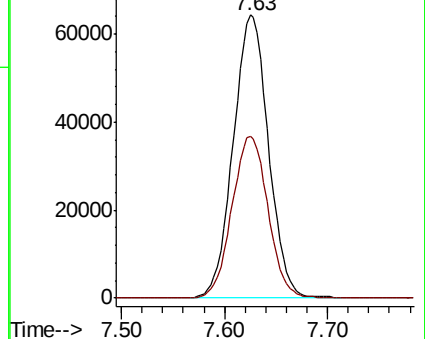
168 100

99 57.3 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#4

Vinyl Chloride

Concen: 0.281 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061951.D

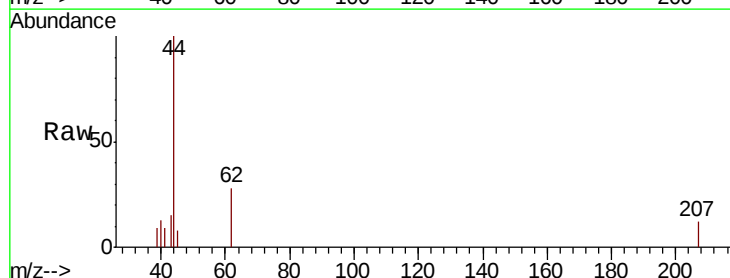
Acq: 19 Jun 2020 14:49

Tgt Ion: 62 Resp: 711

Ion Ratio Lower Upper

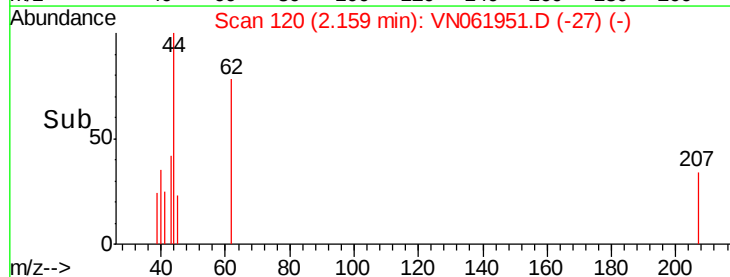
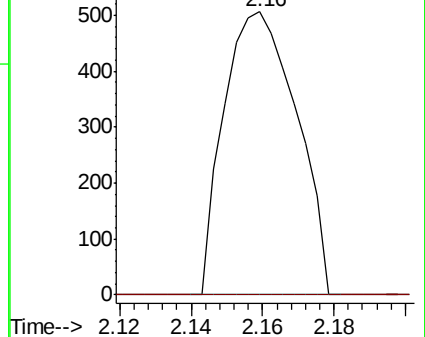
62 100

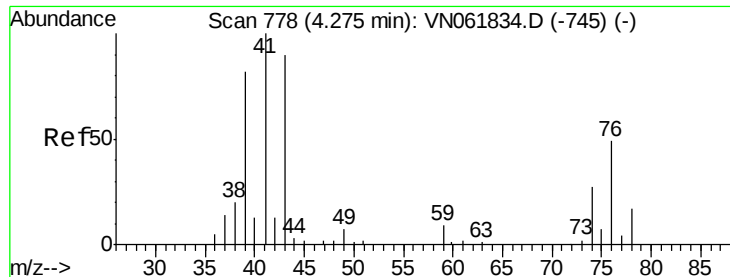
64 0.0 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VN

Ion 63.90 (63.60 to 64.60): VN

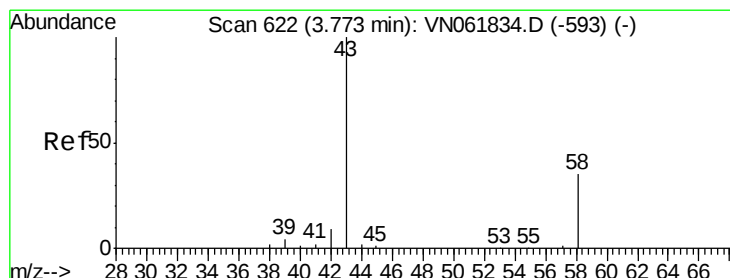
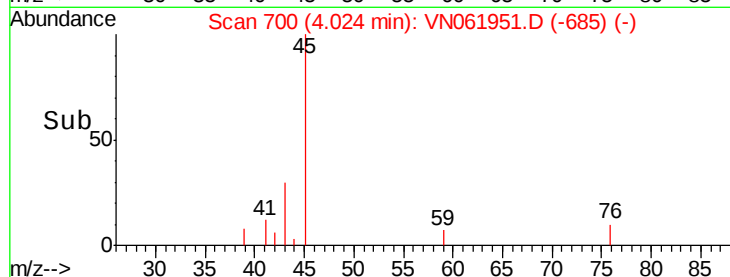
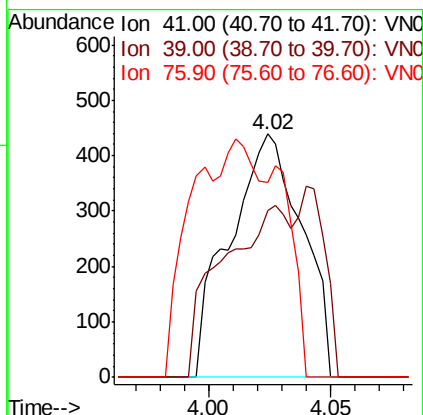
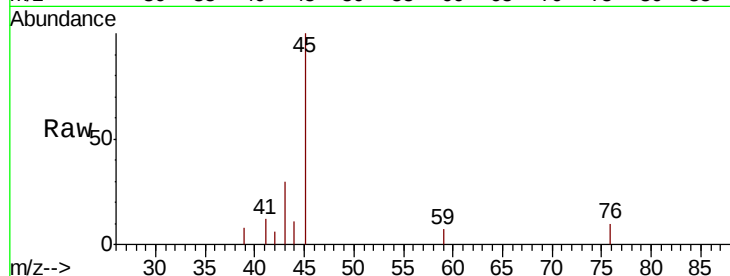




#14
Allvl chloride
Concen: 0.436 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.25 min
Lab File: VN061951.D
Acq: 19 Jun 2020 14:49

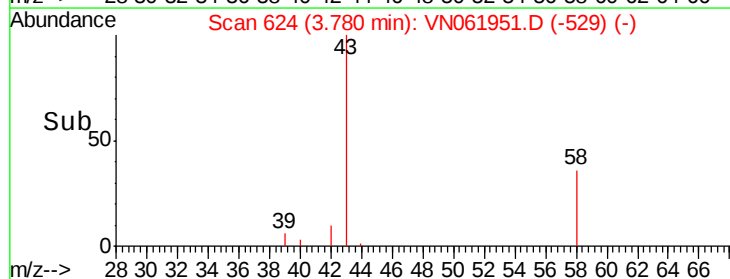
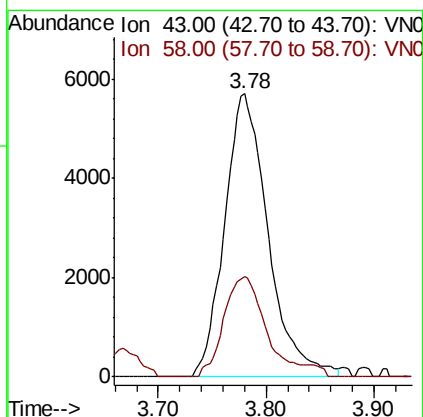
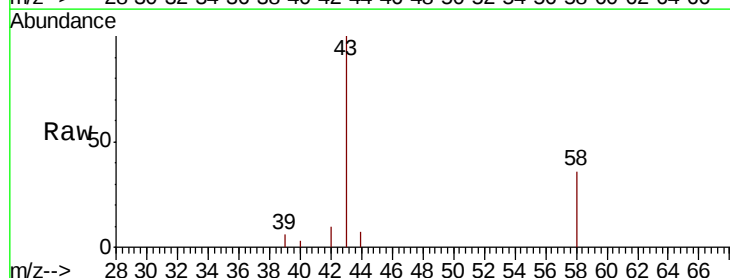
Instrument :
MSVOA_N
ClientSampled :
S49-0566

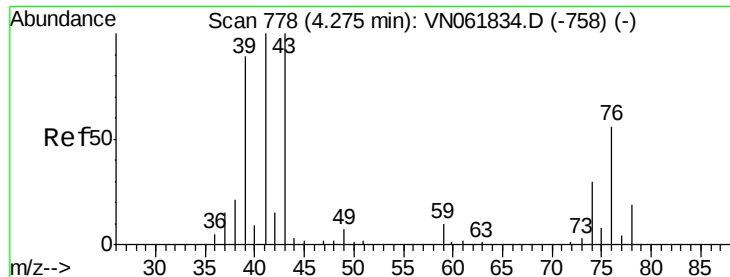
Tot Ion: 41 Resp: 899
Ion Ratio Lower Upper
41 100
39 66.5 60.2 90.2
76 0.0 36.3 54.5#



#16
Acetone
Concen: 26.490 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.01 min
Lab File: VN061951.D
Acq: 19 Jun 2020 14:49

Tgt Ion: 43 Resp: 16057
Ion Ratio Lower Upper
43 100
58 35.6 27.8 41.8

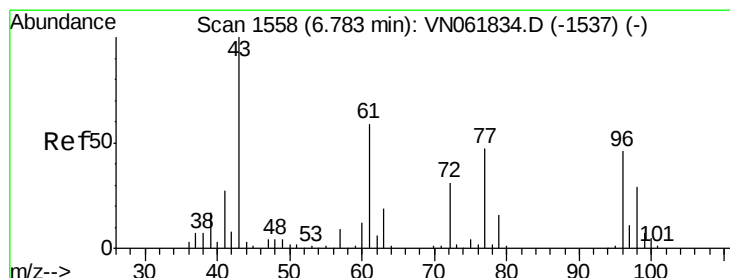
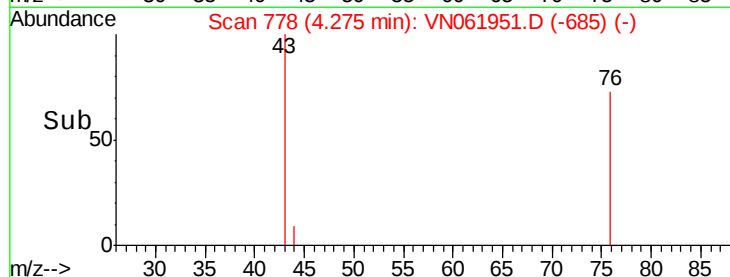
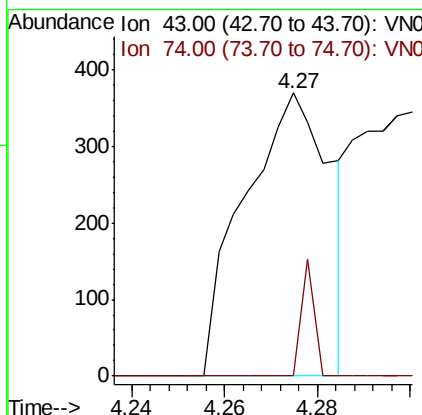
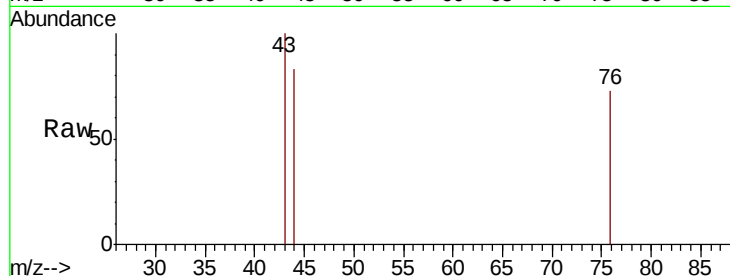




#18
Methvl Acetate
Concen: 0.273 ug/l
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061951.D
Acq: 19 Jun 2020 14:49

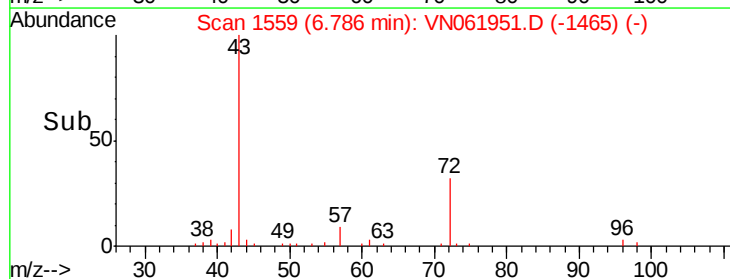
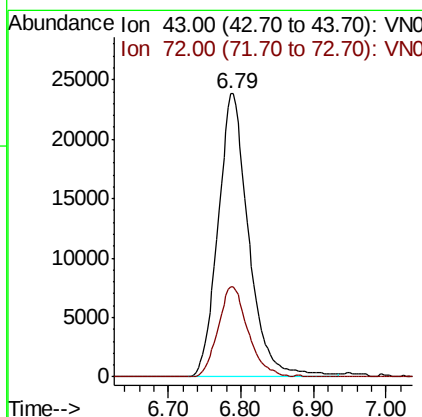
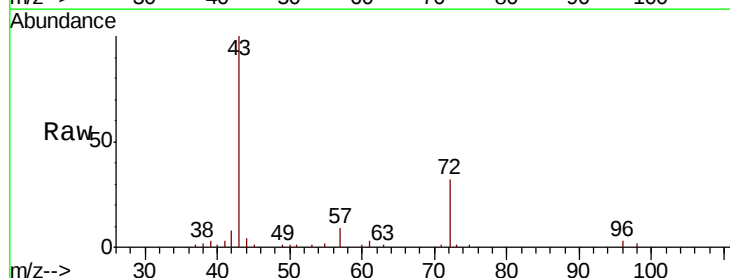
Instrument :
MSVOA_N
ClientSampleId :
S49-0566

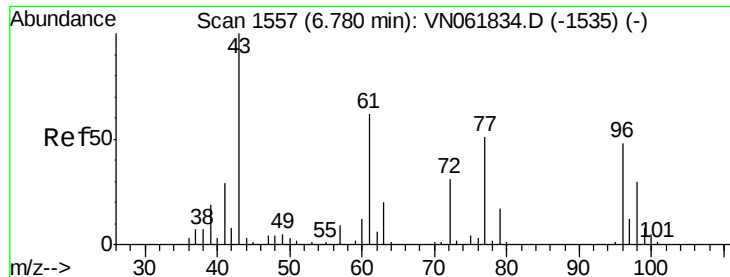
Tot Ion: 43 Resp: 477
Ion Ratio Lower Upper
43 100
74 6.3 23.0 34.4#



#25
2-Butanone
Concen: 79.067 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN061951.D
Acq: 19 Jun 2020 14:49

Tgt Ion: 43 Resp: 69926
Ion Ratio Lower Upper
43 100
72 31.8 24.6 37.0

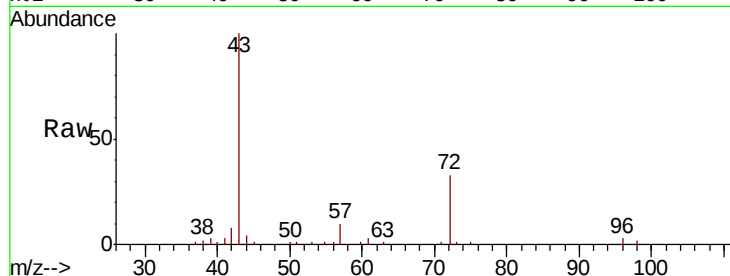




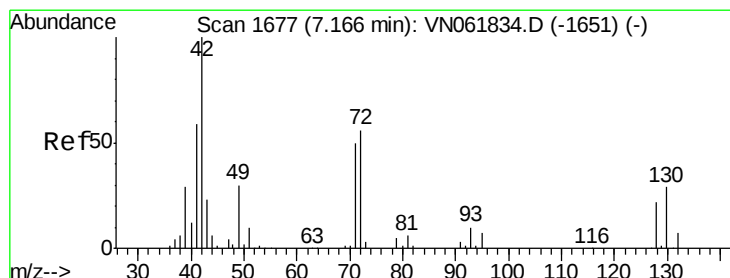
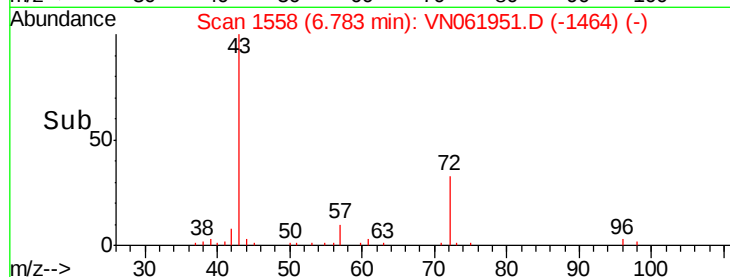
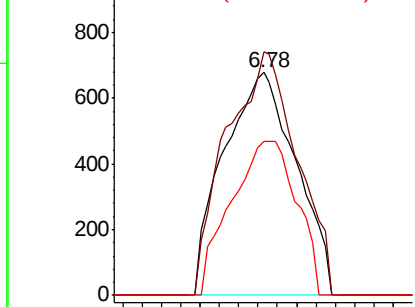
#27
 cis-1,2-Dichloroethene
 Concen: 0.858 ug/l
 RT: 6.78 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: VN061951.D
 Acq: 19 Jun 2020 14:49

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0566

Tot Ion: 96 Resp: 1767
 Ion Ratio Lower Upper
 96 100
 61 106.8 0.0 265.6
 98 62.7 0.0 128.2

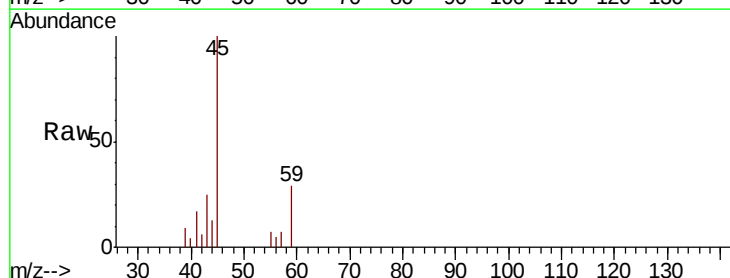


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

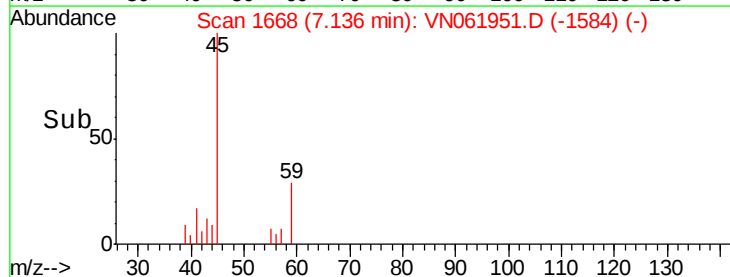
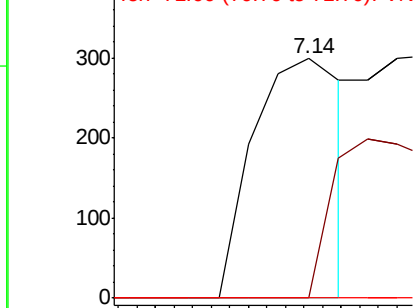


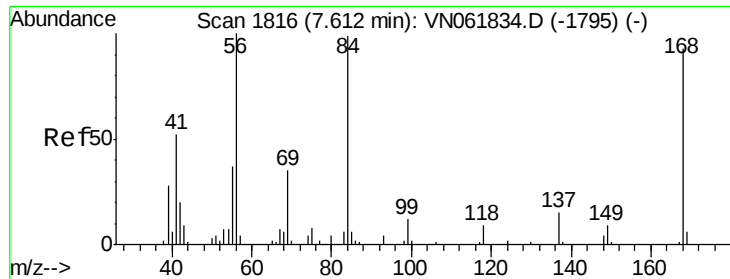
#29
 Tetrahydrofuran
 Concen: 0.347 ug/l
 RT: 7.14 min Scan# 1668
 Delta R.T. -0.03 min
 Lab File: VN061951.D
 Acq: 19 Jun 2020 14:49

Tgt Ion: 42 Resp: 202
 Ion Ratio Lower Upper
 42 100
 72 71.3 44.0 66.0#
 71 0.0 40.0 60.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0
 Ion 71.00 (70.70 to 71.70): VN0

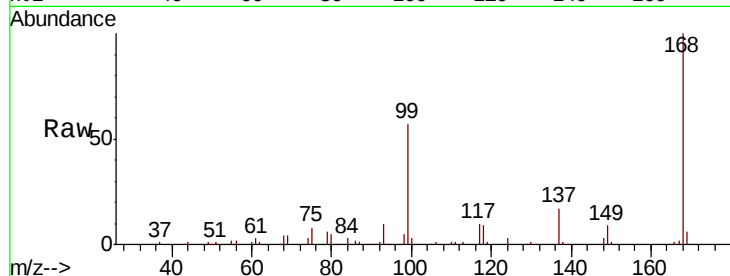




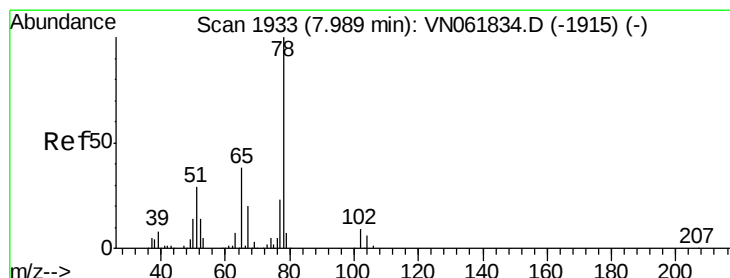
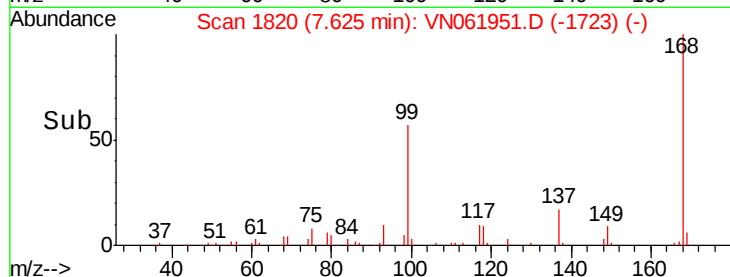
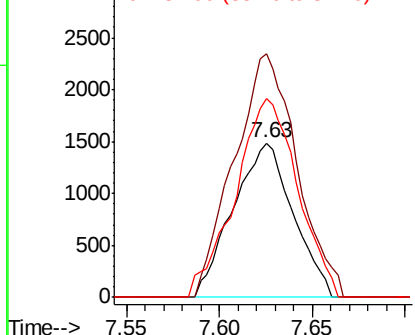
#31
Cyclohexane
Concen: 1.236 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061951.D
Acq: 19 Jun 2020 14:49

Instrument :
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ClientSampleId :
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Tot Ion: 56 Resp: 3342
Ion Ratio Lower Upper
56 100
69 157.7 27.7 41.5#
84 128.9 79.1 118.7#

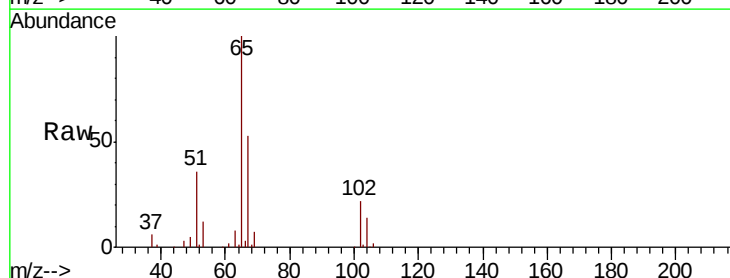


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

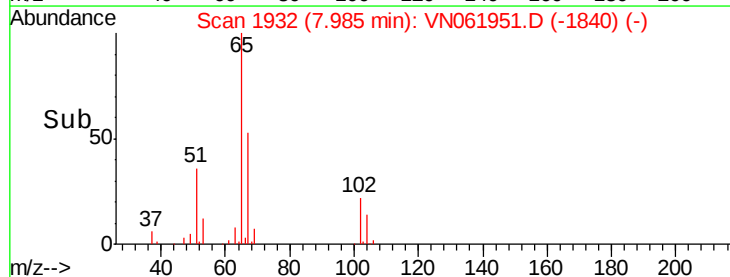
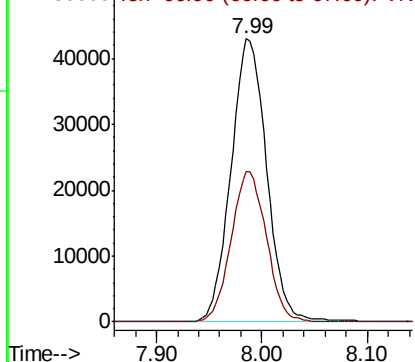


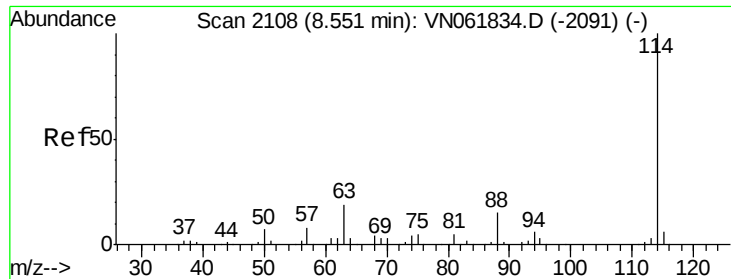
#33
1,2-Dichloroethane-d4
Concen: 49.083 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061951.D
Acq: 19 Jun 2020 14:49

Tgt Ion: 65 Resp: 100723
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.2



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

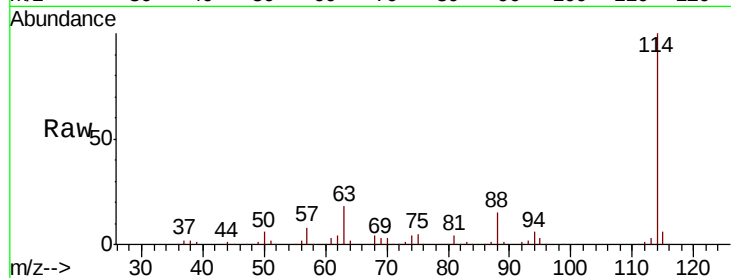




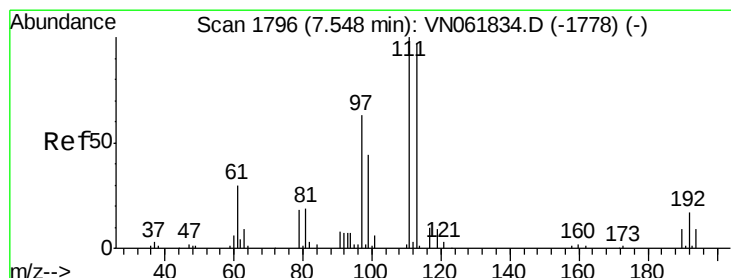
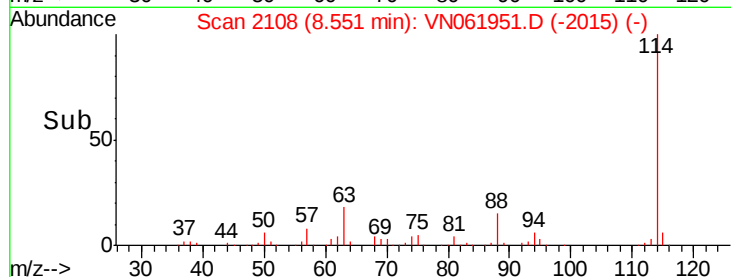
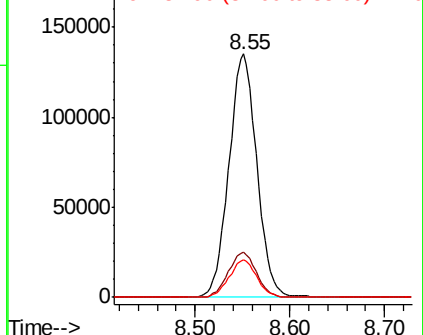
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061951.D
 Acq: 19 Jun 2020 14:49

Instrument :
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 ClientSampleId :
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Tot Ion:114 Resp: 276934
 Ion Ratio Lower Upper
 114 100
 63 18.4 0.0 37.6
 88 15.2 0.0 31.0

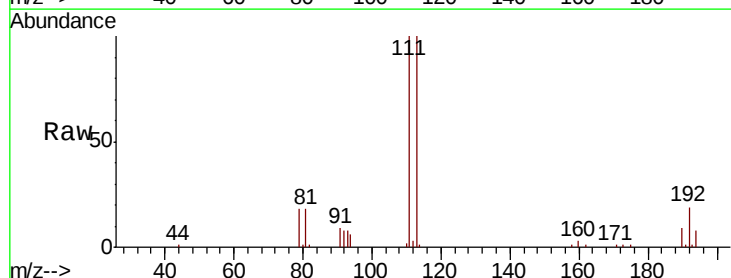


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

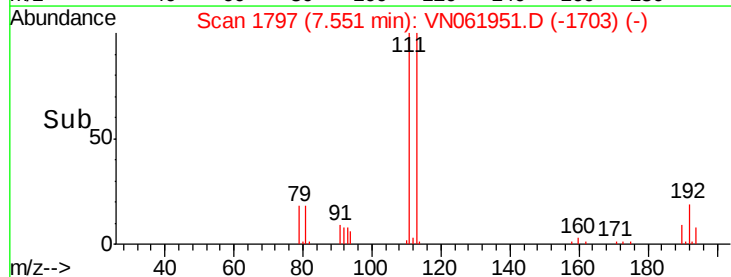
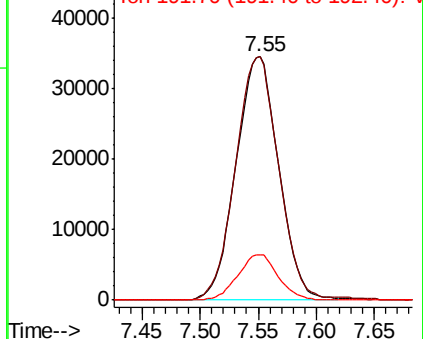


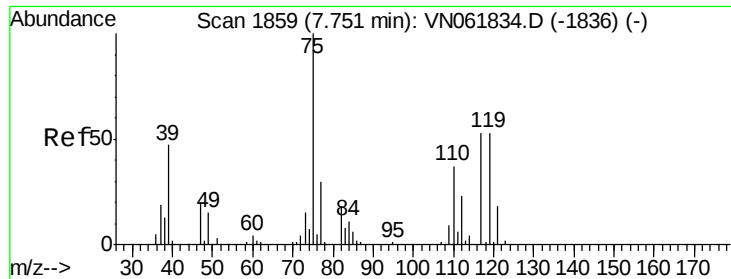
#35
 Dibromofluoromethane
 Concen: 50.053 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061951.D
 Acq: 19 Jun 2020 14:49

Tgt Ion:113 Resp: 88677
 Ion Ratio Lower Upper
 113 100
 111 101.4 83.7 125.5
 192 17.5 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

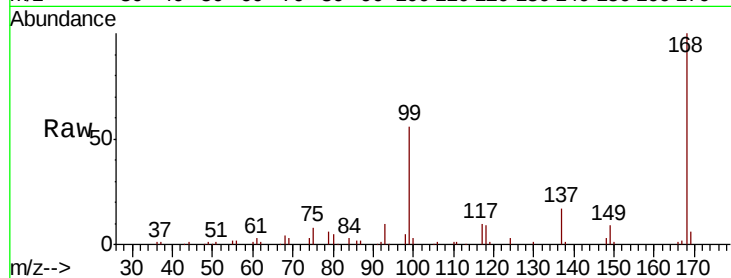




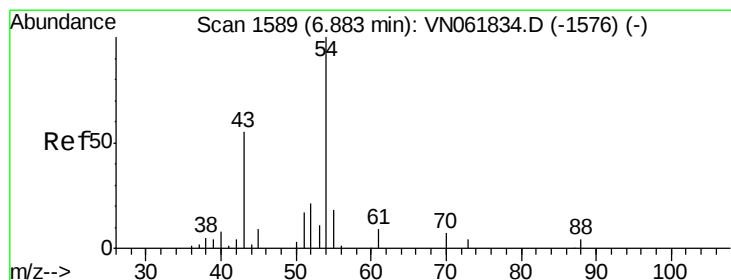
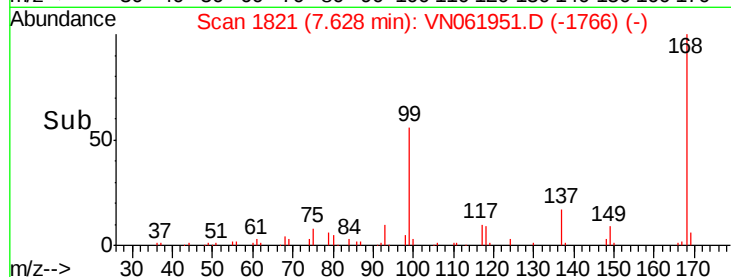
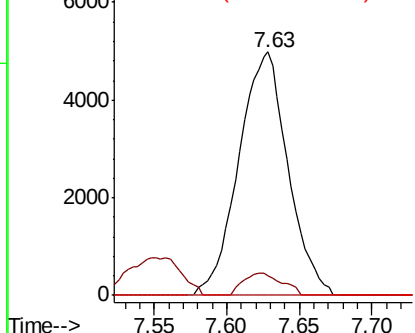
#36
 1,1-Dichloropropene
 Concen: 4.655 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061951.D
 Acq: 19 Jun 2020 14:49

Instrument :
 MSVOA_N
 ClientSampleId :
 S49-0566

Tot Ion: 75 Resp: 11759
 Ion Ratio Lower Upper
 75 100
 110 7.1 18.2 54.6#
 77 0.0 24.2 36.4#

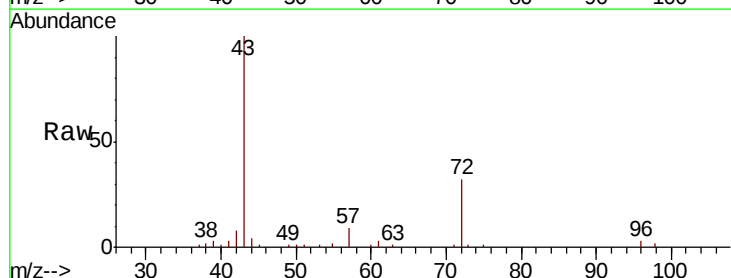


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

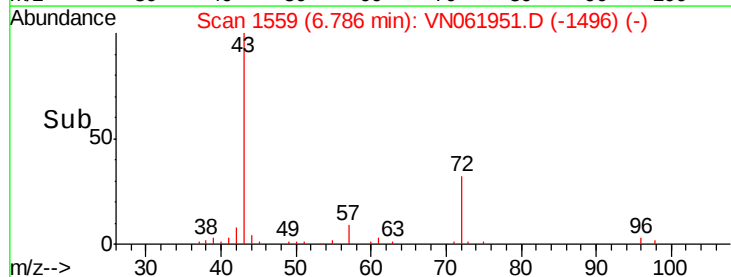
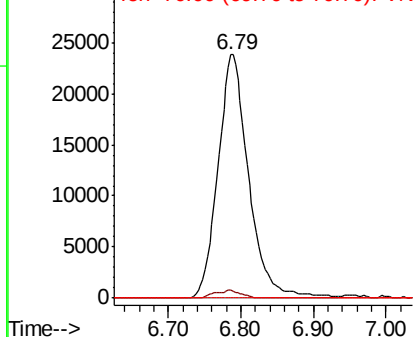


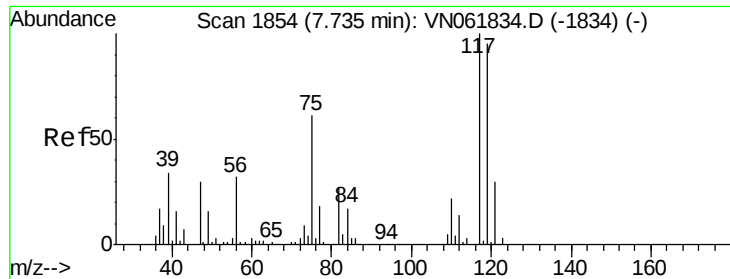
#37
 Ethyl Acetate
 Concen: 35.450 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. -0.10 min
 Lab File: VN061951.D
 Acq: 19 Jun 2020 14:49

Tgt Ion: 43 Resp: 69926
 Ion Ratio Lower Upper
 43 100
 61 2.7 13.0 19.4#
 70 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.189 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

S49-0566

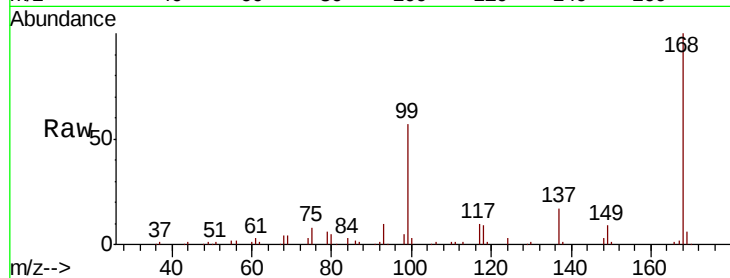
Tot Ion: 117 Resp: 15482

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.6#

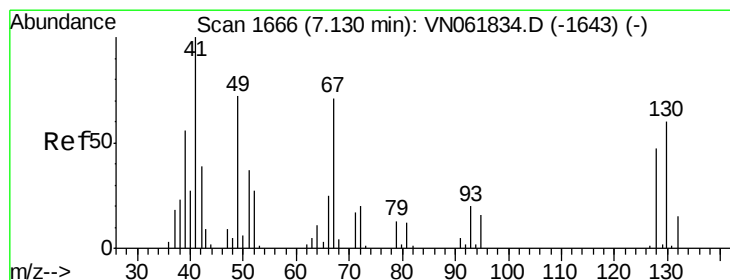
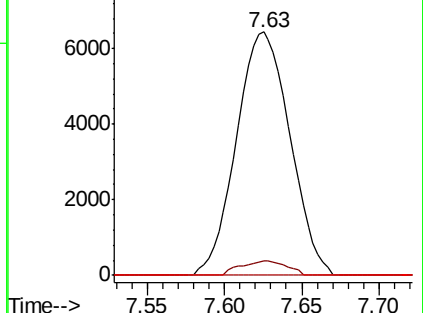
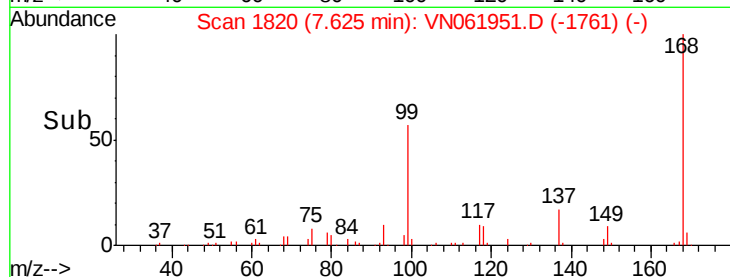
121 0.0 23.8 35.6#



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



#41

Methacrylonitrile

Concen: 3.229 ug/l

RT: 7.15 min Scan# 1671

Delta R.T. 0.02 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Tgt Ion: 41 Resp: 2724

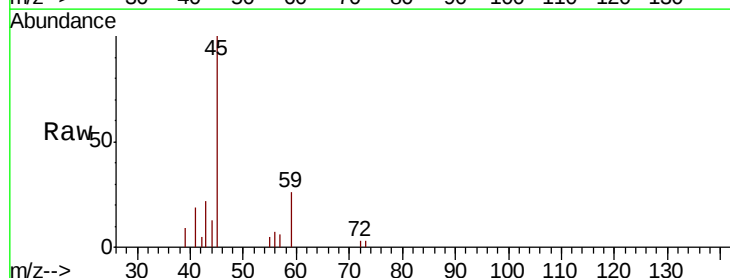
Ion Ratio Lower Upper

41 100

39 43.6 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

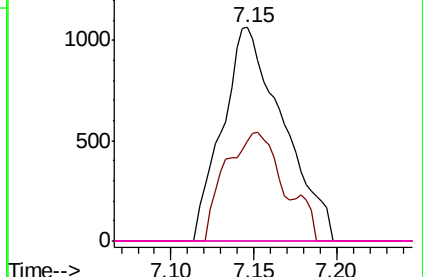
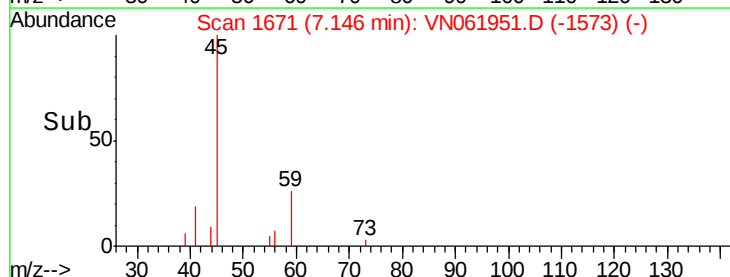


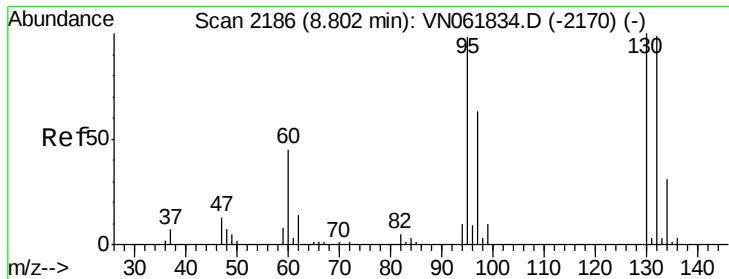
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#44

Trichloroethene

Concen: 1.669 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

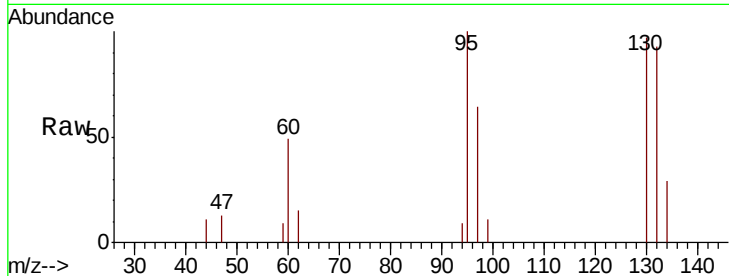
S49-0566

Tot Ion:130 Resp: 3361

Ion Ratio Lower Upper

130 100

95 103.3 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.80

1500

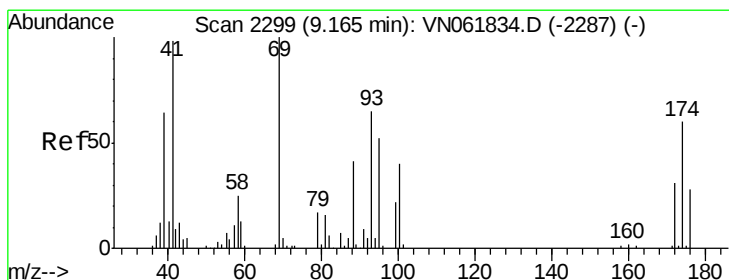
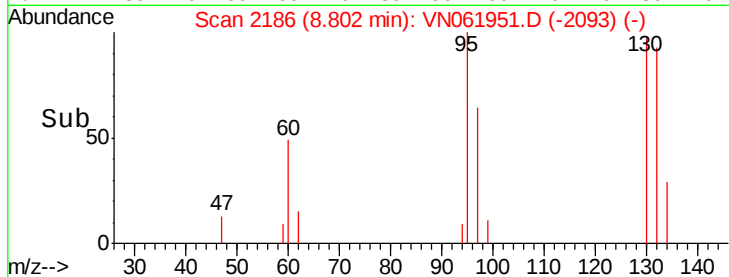
1000

500

0

8.75 8.80 8.85

Time-->



#48

Methyl methacrylate

Concen: 0.607 ug/l

RT: 9.13 min Scan# 2289

Delta R.T. -0.03 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

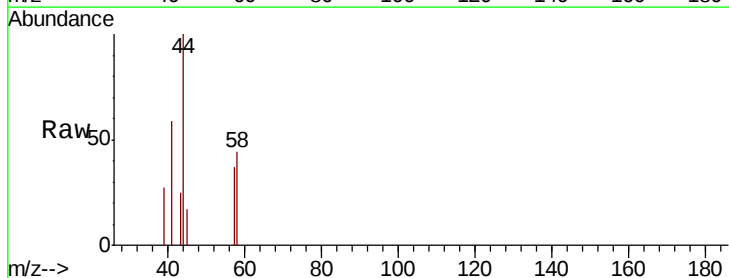
Tgt Ion: 41 Resp: 918

Ion Ratio Lower Upper

41 100

69 0.0 83.0 124.4#

39 48.5 55.1 82.7#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 39.00 (38.70 to 39.70): VN

600

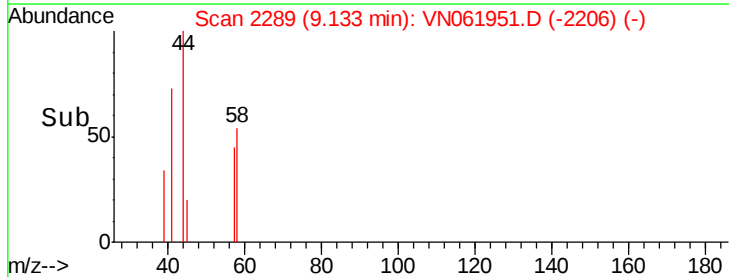
400

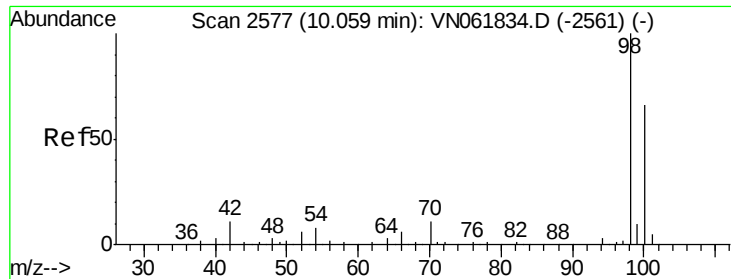
200

0

9.10 9.13 9.15

Time-->





#50

Toluene-d8

Concen: 49.505 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

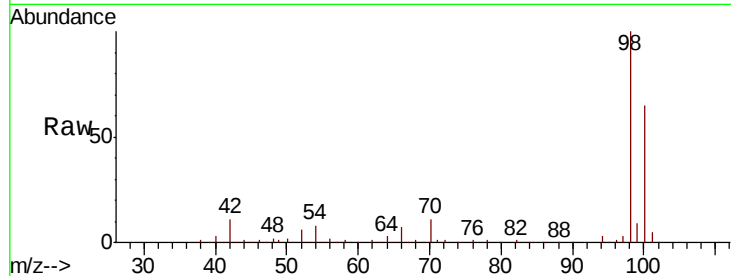
S49-0566

Tot Ion: 98 Resp: 344811

Ion Ratio Lower Upper

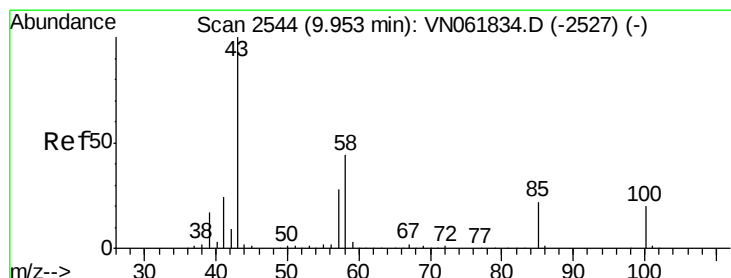
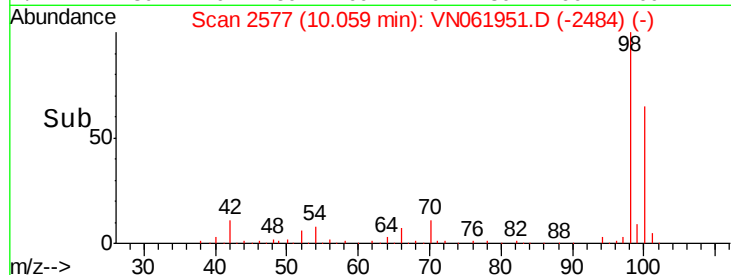
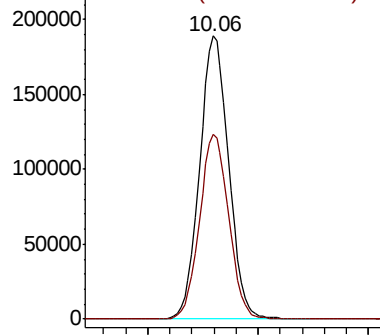
98 100

100 65.4 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: 0.451 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061951.D

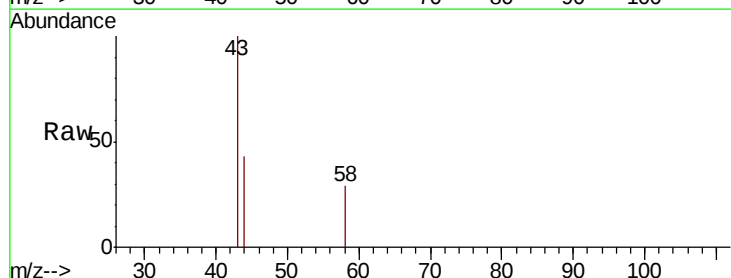
Acq: 19 Jun 2020 14:49

Tgt Ion: 43 Resp: 885

Ion Ratio Lower Upper

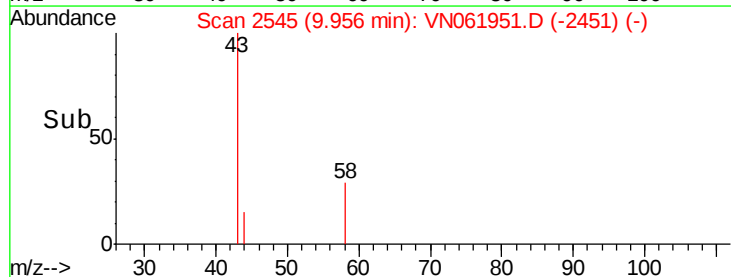
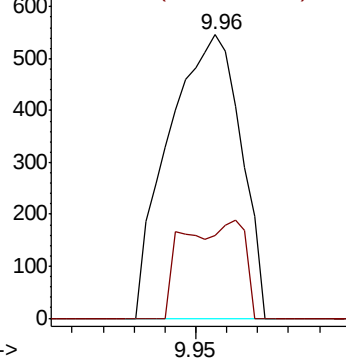
43 100

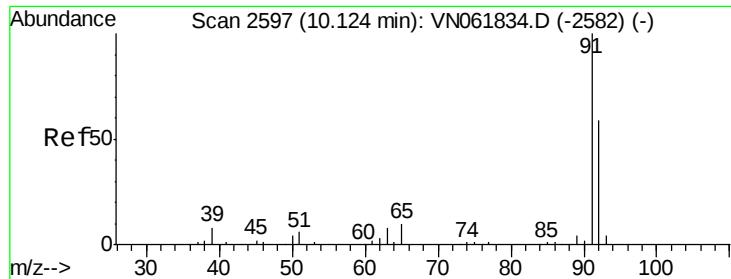
58 14.0 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 2.262 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

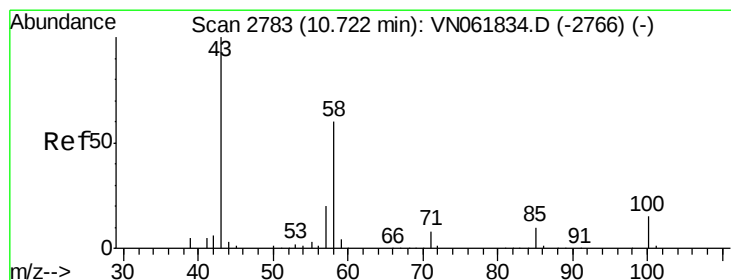
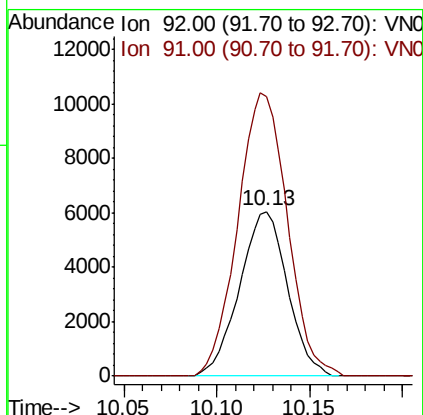
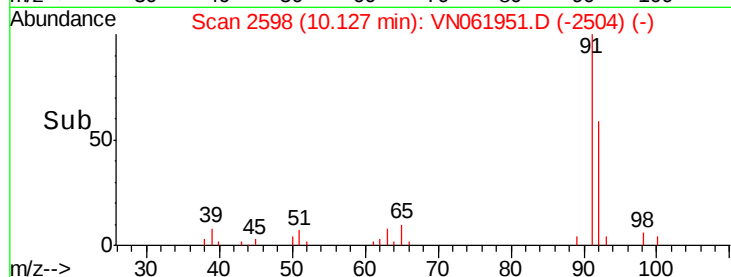
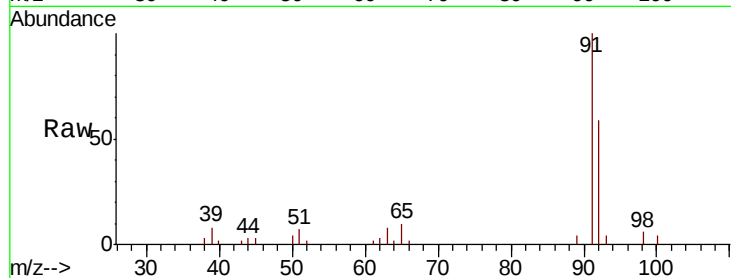
S49-0566

Tot Ion: 92 Resp: 10872

Ion Ratio Lower Upper

92 100

91 178.5 137.1 205.7



#59

2-Hexanone

Concen: 13.612 ug/l

RT: 10.73 min Scan# 2785

Delta R.T. 0.01 min

Lab File: VN061951.D

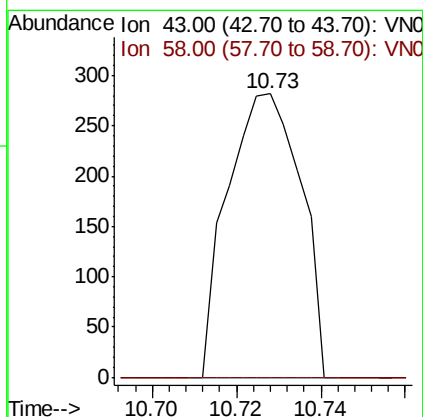
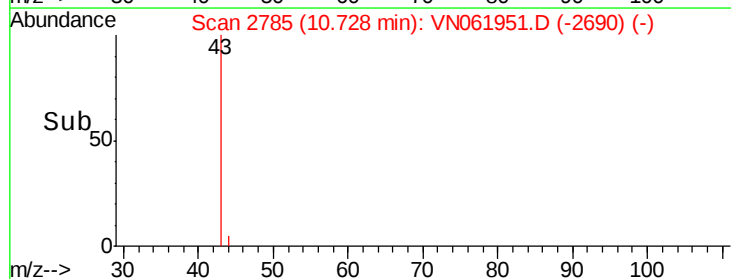
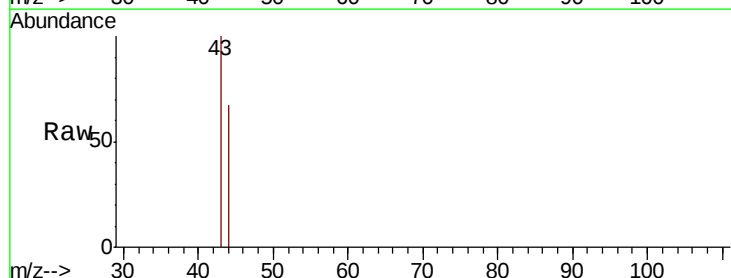
Acq: 19 Jun 2020 14:49

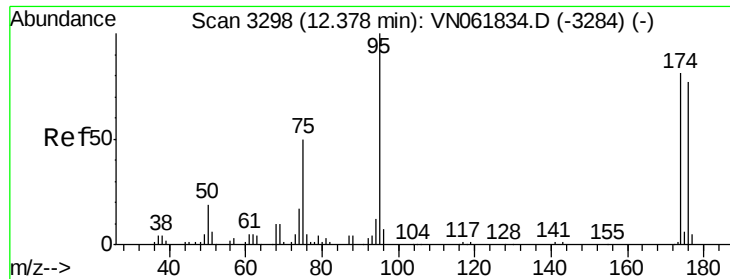
Tgt Ion: 43 Resp: 340

Ion Ratio Lower Upper

43 100

58 0.0 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 47.207 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampled :

S49-0566

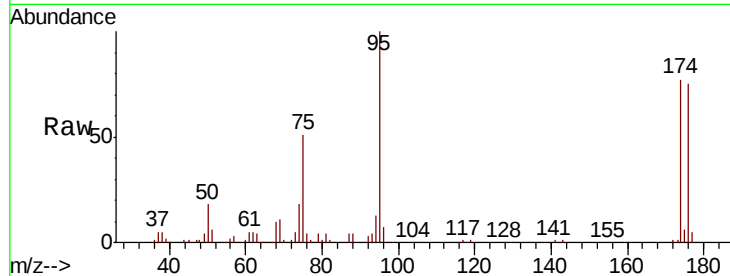
Tot Ion: 95 Resp: 112785

Ion Ratio Lower Upper

95 100

174 78.5 0.0 158.6

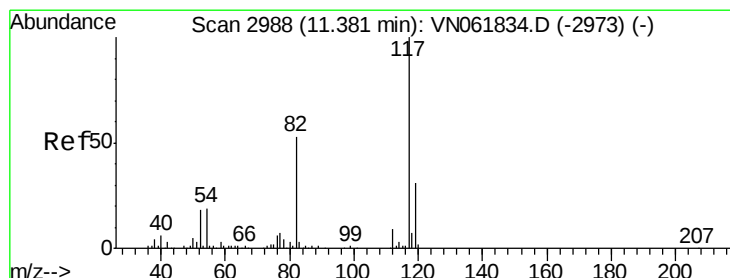
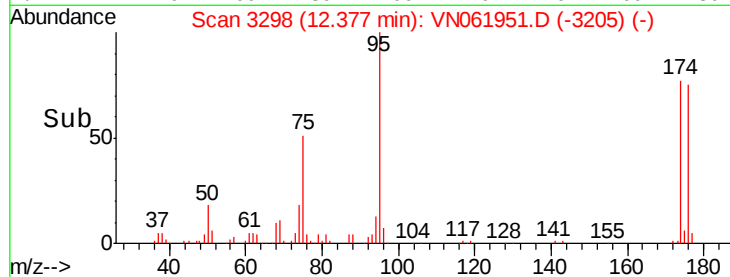
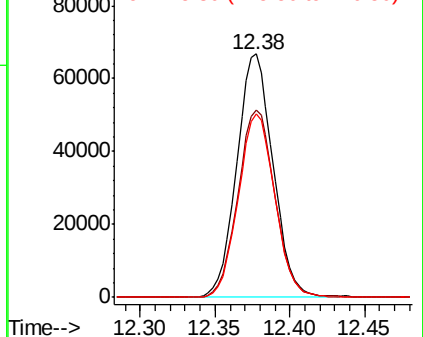
176 75.9 0.0 152.0



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: VN061951.D

Acq: 19 Jun 2020 14:49

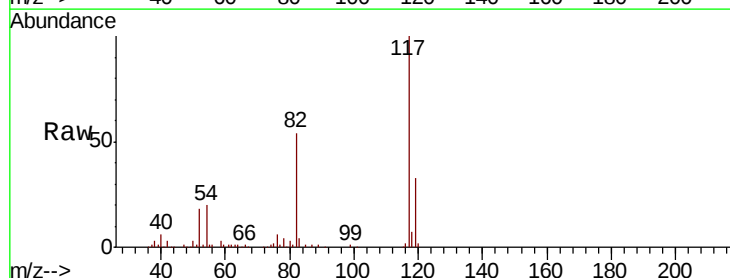
Tgt Ion: 117 Resp: 263274

Ion Ratio Lower Upper

117 100

82 54.3 42.6 64.0

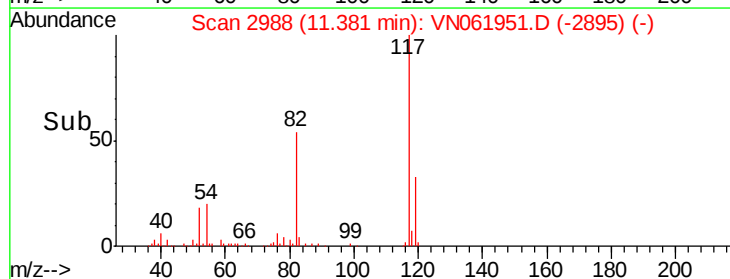
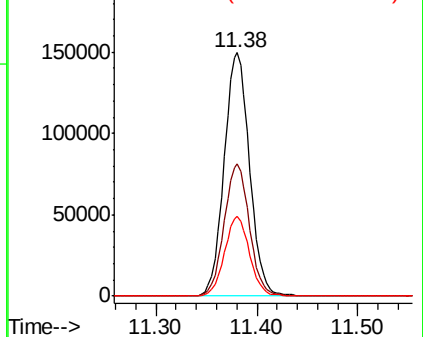
119 32.6 24.7 37.1

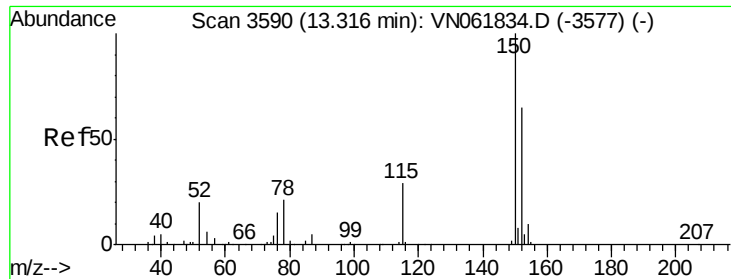


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

S49-0566

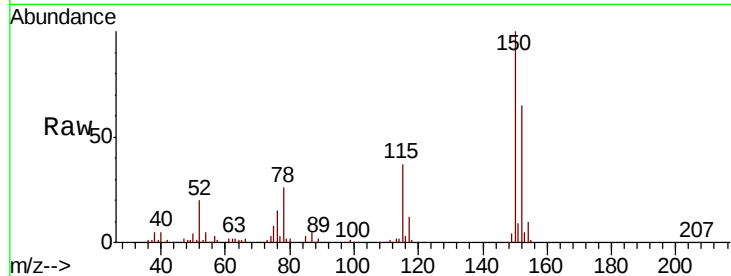
Tot Ion:152 Resp: 104812

Ion Ratio Lower Upper

152 100

115 58.3 29.1 87.3

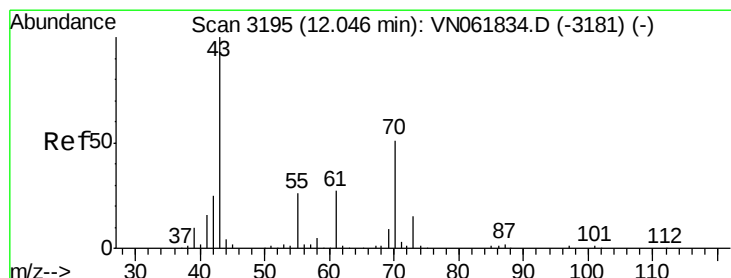
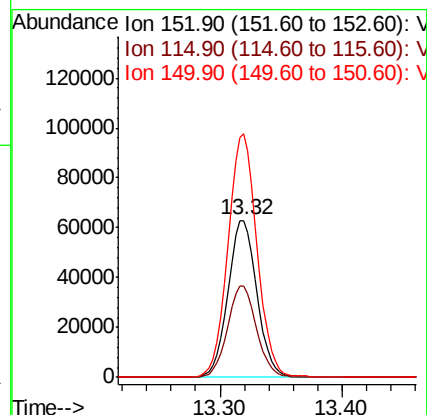
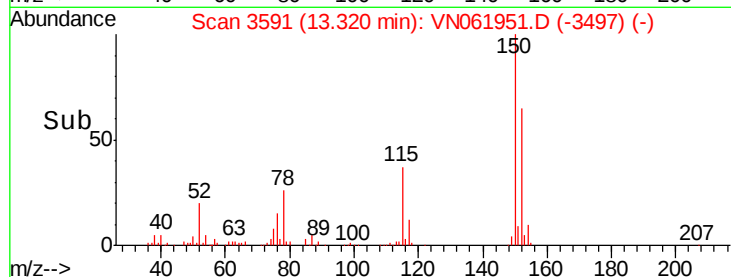
150 155.3 0.0 347.6



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-ethyl acetate

Concen: 3.108 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Tgt Ion: 43 Resp: 127

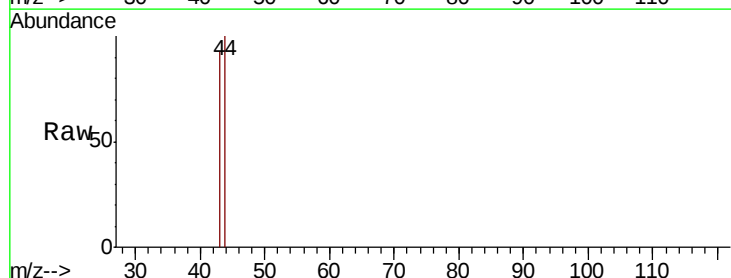
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

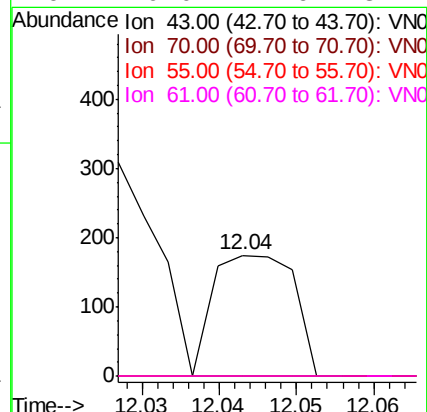
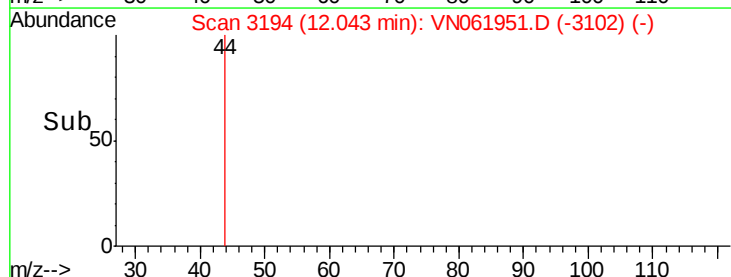


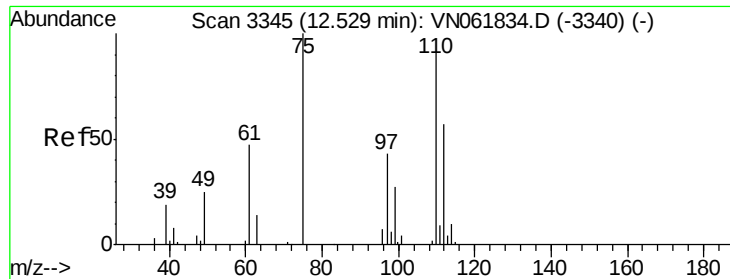
Abundance Ion 43.00 (42.70 to 43.70): V

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





#76

1,2,3-Trichloropropane

Concen: 27.646 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

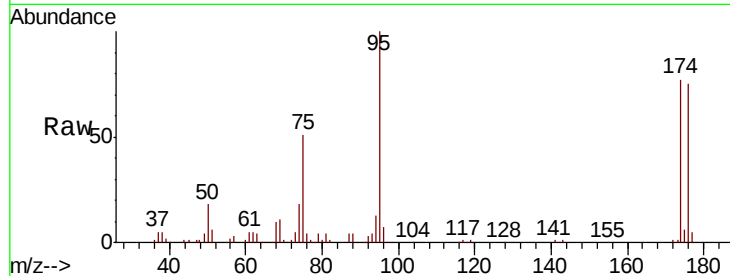
S49-0566

Tot Ion: 75 Resp: 56887

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061951.D (-3298) (-)

Ion 77.00 (76.70 to 77.70): VN061951.D (-3298) (-)

12.38

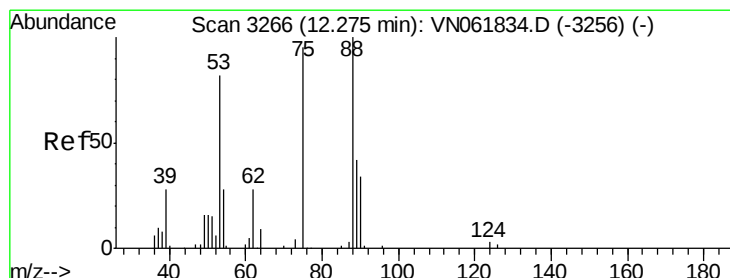
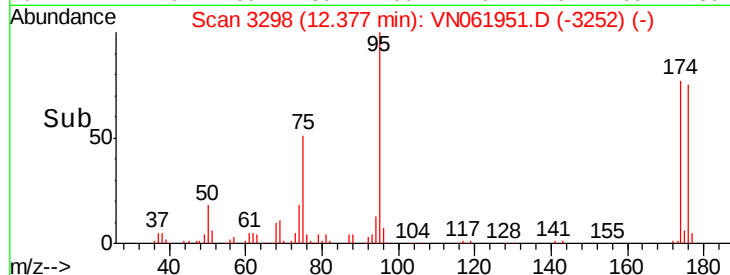
30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 75.401 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061951.D

Acq: 19 Jun 2020 14:49

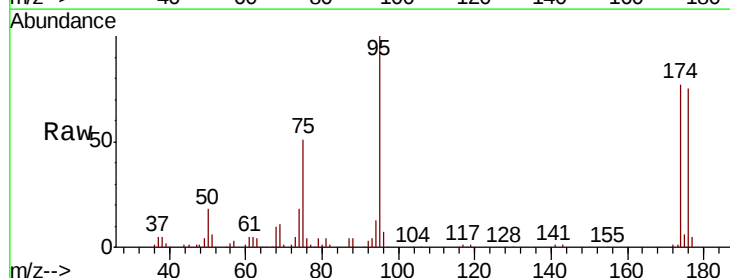
Tgt Ion: 75 Resp: 56887

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061951.D (-3298) (-)

Ion 53.00 (52.70 to 53.70): VN061951.D (-3298) (-)

Ion 88.90 (88.60 to 89.60): VN061951.D (-3298) (-)

12.38

40000

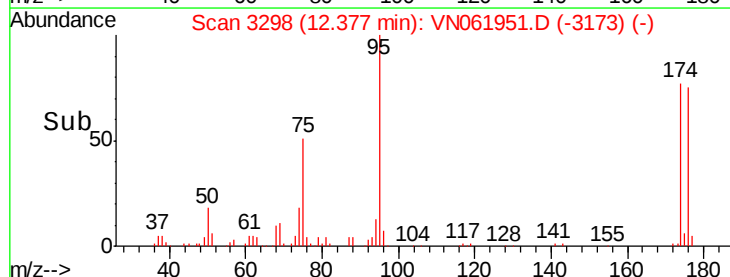
30000

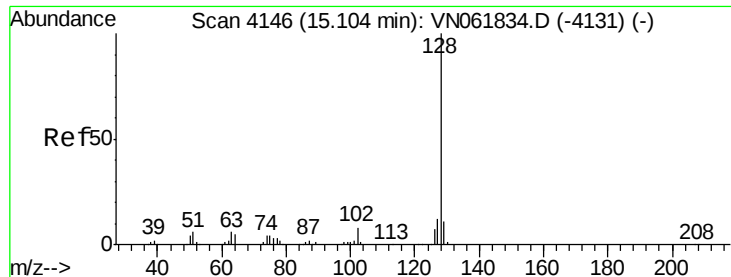
20000

10000

0

Time--> 12.30 12.35 12.40 12.45





#95

Naphthalene

Concen: 3.547 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN061951.D

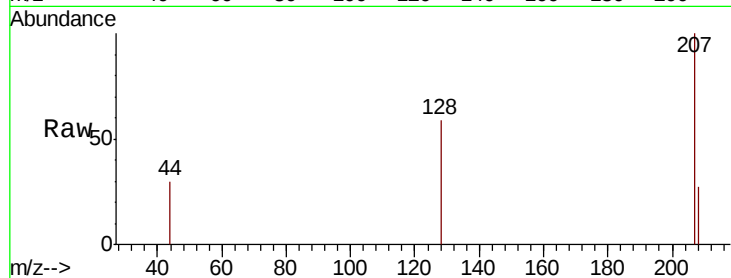
Acq: 19 Jun 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

S49-0566



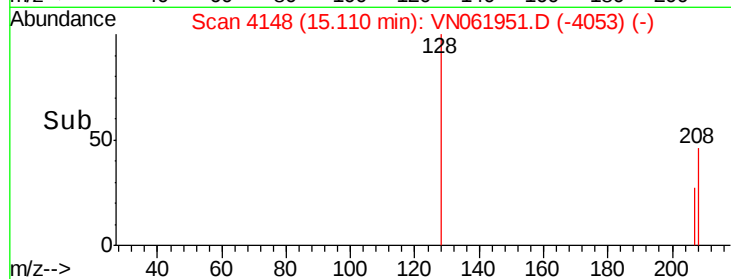
Tot Ion:128 Resp: 357

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

