

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072720\
 Data File : VN062615.D
 Acq On : 27 Jul 2020 21:52
 Operator : JC/MD
 Sample : L3434-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11986

Quant Time: Jul 28 06:27:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	133950	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	243071	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	248594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	104342	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	114217	54.89	ug/l	0.00
Spiked Amount			Recovery	=	109.78%	
35) Dibromofluoromethane	7.55	113	82347	51.58	ug/l	0.00
Spiked Amount			Recovery	=	103.16%	
50) Toluene-d8	10.06	98	317980	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
62) 4-Bromofluorobenzene	12.38	95	122680	52.67	ug/l	0.00
Spiked Amount			Recovery	=	105.34%	

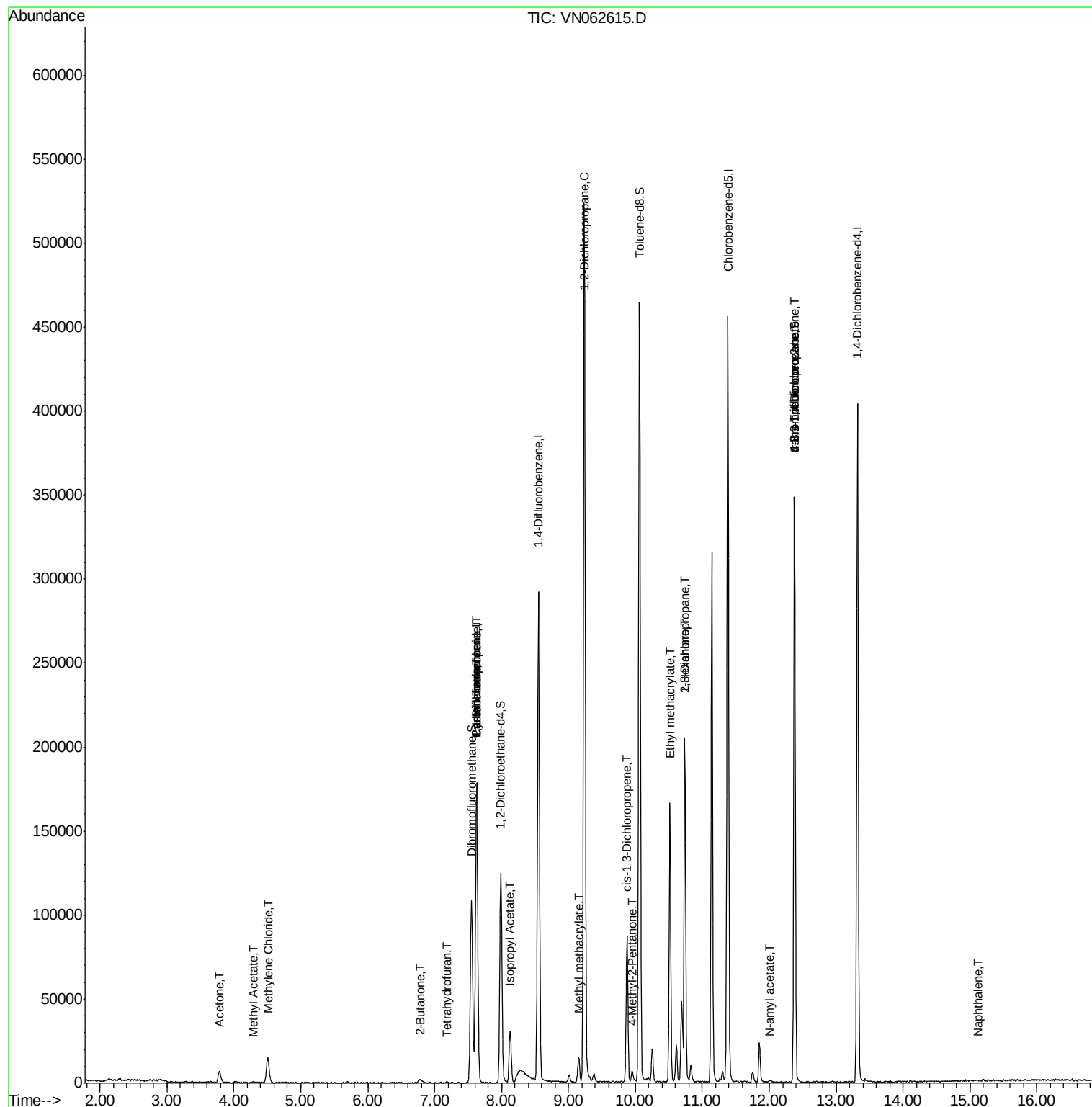
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	12548	16.025	ug/l	98
18) Methyl Acetate	4.29	43	909	0.459	ug/l #	56
20) Methylene Chloride	4.51	84	10780	5.740	ug/l	91
25) 2-Butanone	6.79	43	1034	0.867	ug/l #	52
29) Tetrahydrofuran	7.18	42	271	0.336	ug/l #	38
31) Cyclohexane	7.63	56	3428	1.118	ug/l #	7
36) 1,1-Dichloropropene	7.63	75	11923	4.602	ug/l #	52
38) Carbon Tetrachloride	7.63	117	15064	6.049	ug/l #	17
43) Isopropyl Acetate	8.13	43	36546	8.117	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	638	0.290	ug/l #	44
48) Methyl methacrylate	9.15	41	2030	0.949	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	3934	1.460	ug/l #	87
54) cis-1,3-Dichloropropene	9.88	75	15017	4.559	ug/l #	66
56) Ethyl methacrylate	10.52	69	724	1.989	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1716	0.530	ug/l #	42
59) 2-Hexanone	10.74	43	31350	17.829	ug/l #	54
74) N-amyl acetate	12.01	43	1418	0.385	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	68189	25.675	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	68189	71.473	ug/l #	12
95) Naphthalene	15.12	128	102	3.782	ug/l #	69

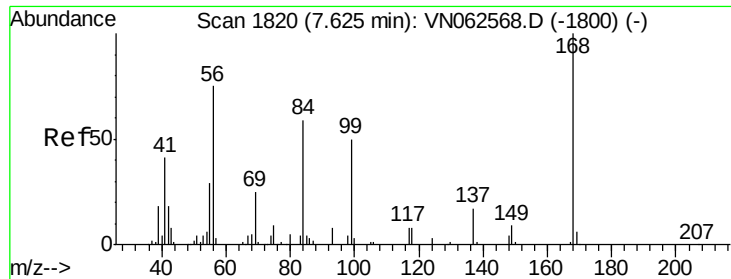
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampleId :

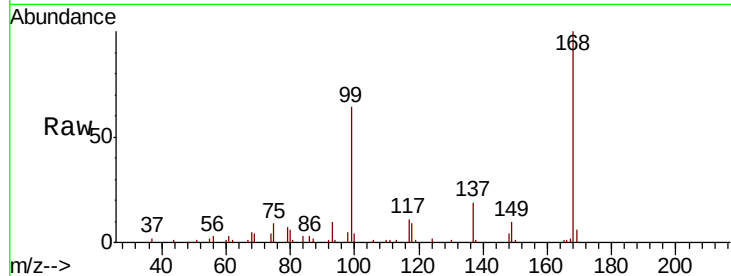
11986

Tot Ion:168 Resp: 133950

Ion Ratio Lower Upper

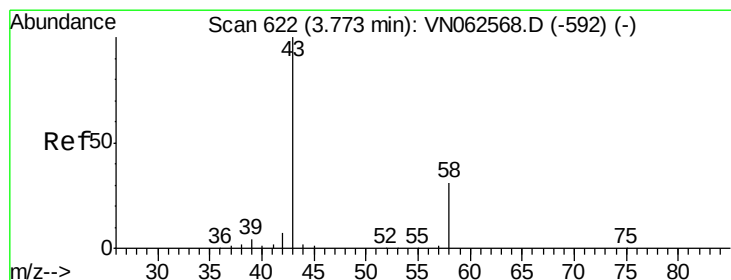
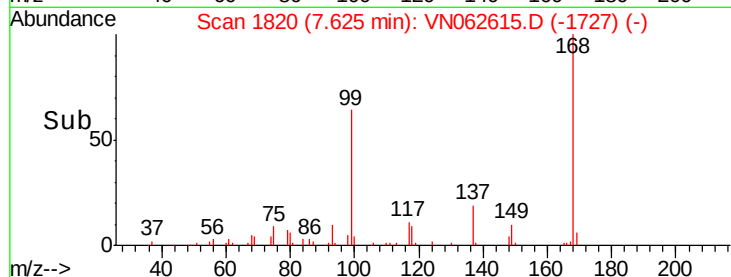
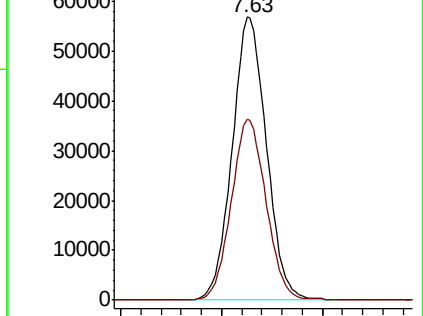
168 100

99 64.1 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): VN062615.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN062615.D (-1727) (-)



#16

Acetone

Concen: 16.025 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062615.D

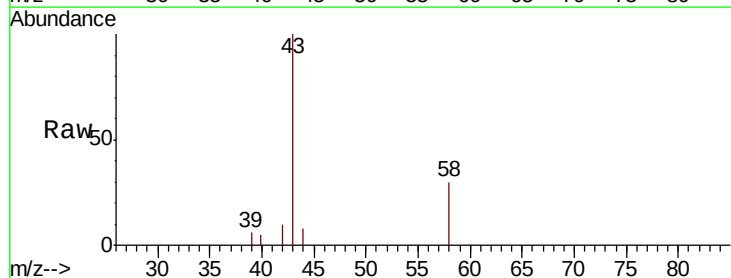
Acq: 27 Jul 2020 21:52

Tgt Ion: 43 Resp: 12548

Ion Ratio Lower Upper

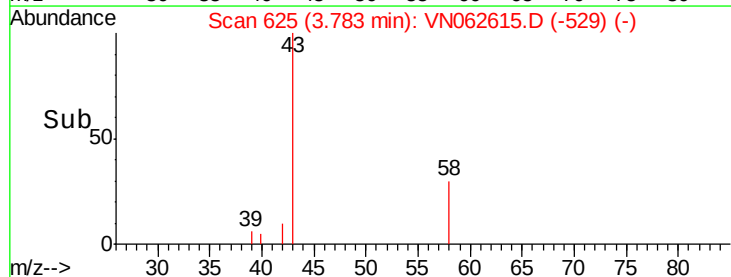
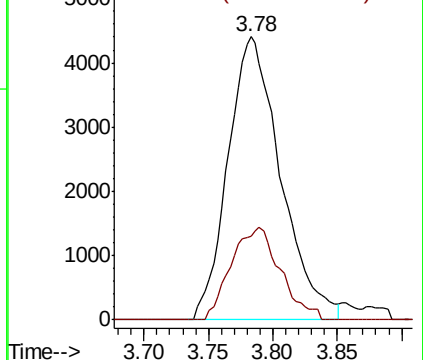
43 100

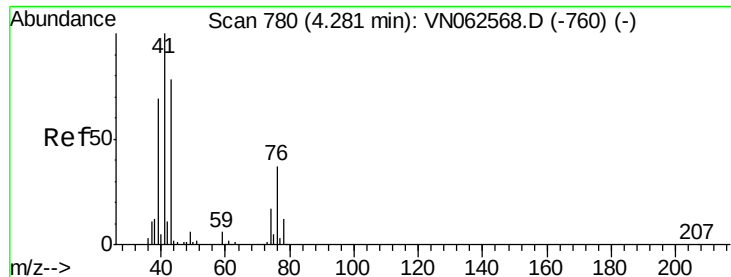
58 29.7 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN062615.D (-529) (-)

Ion 58.00 (57.70 to 58.70): VN062615.D (-529) (-)

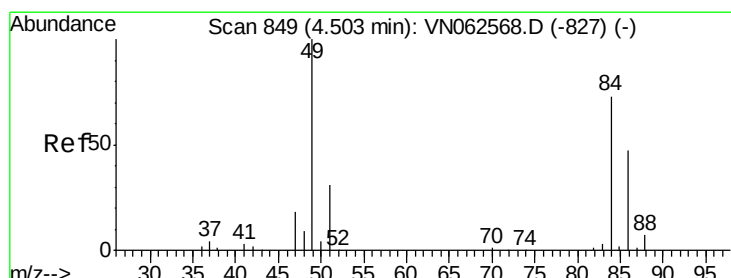
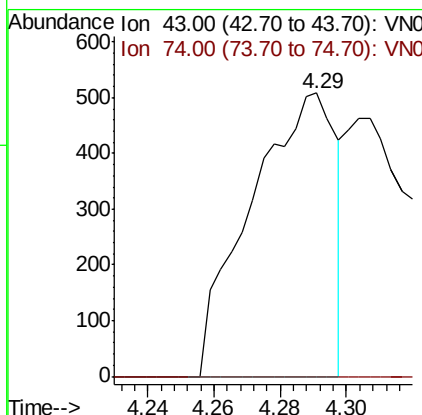
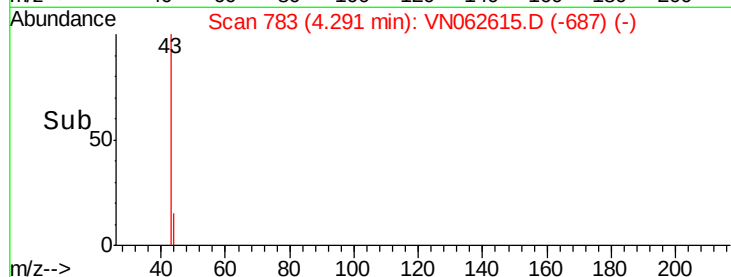
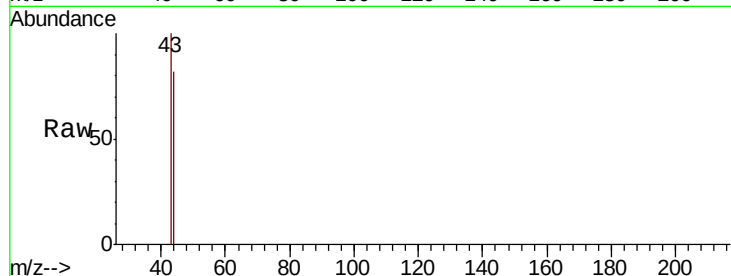




#18
Methyl Acetate
Concen: 0.459 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

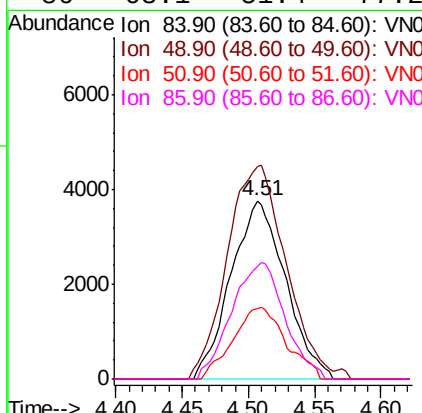
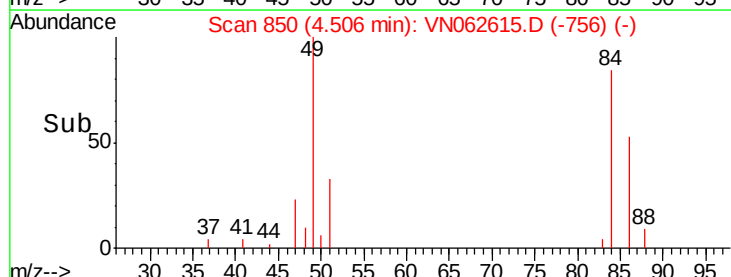
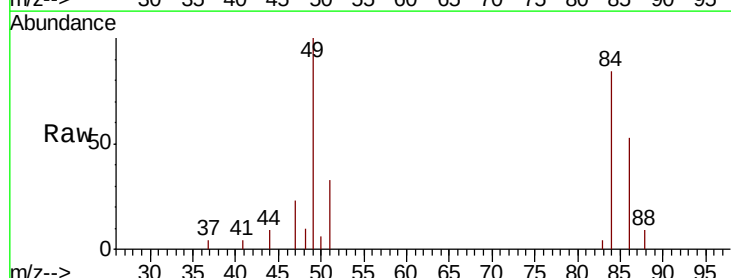
Instrument :
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ClientSampleId :
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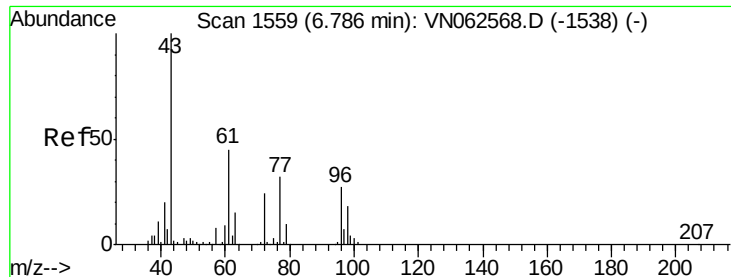
Tot Ion: 43 Resp: 909
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#20
Methylene Chloride
Concen: 5.740 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

Tgt Ion: 84 Resp: 10780
Ion Ratio Lower Upper
84 100
49 119.6 109.4 164.0
51 39.2 33.6 50.4
86 63.1 51.4 77.2

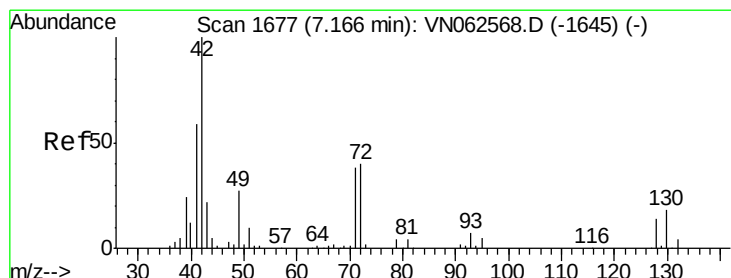
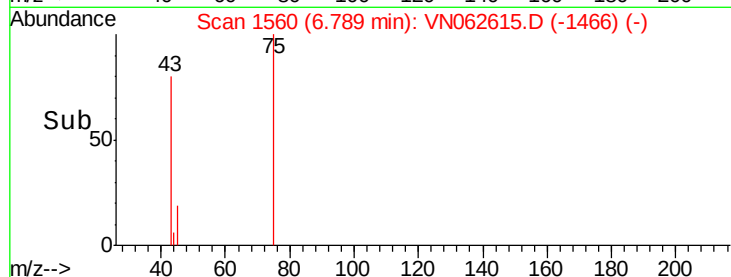
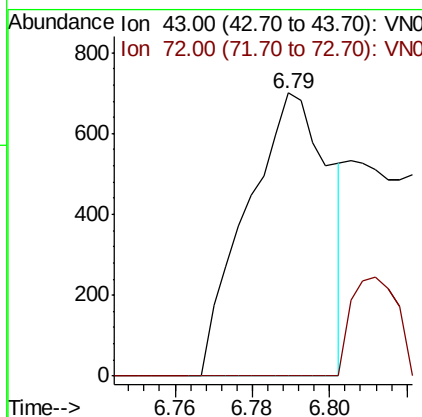
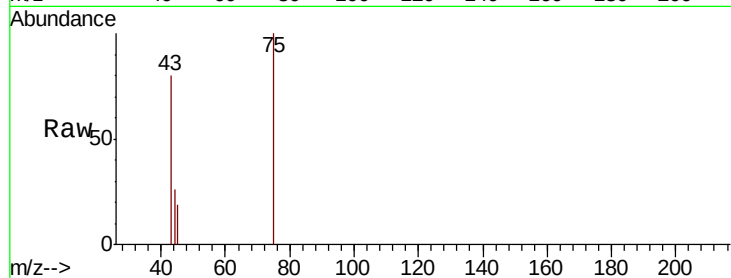




#25
2-Butanone
Concen: 0.867 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

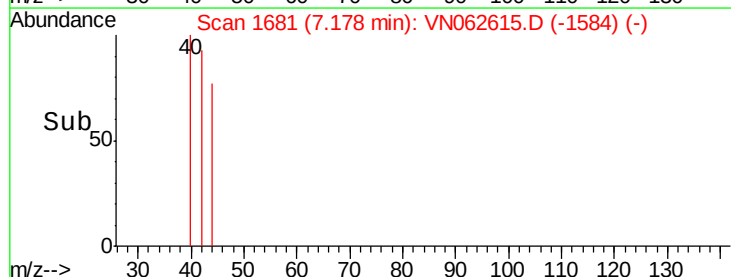
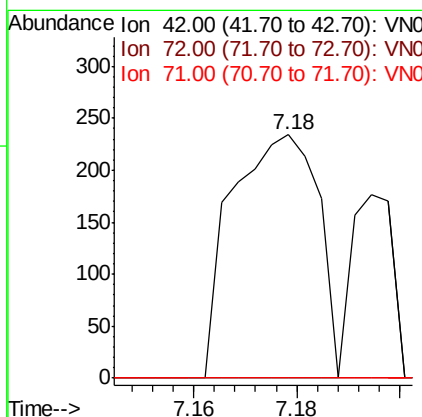
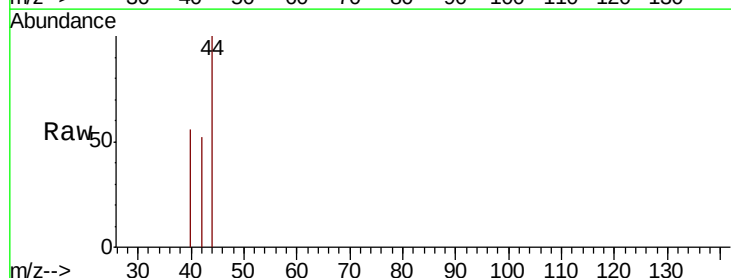
Instrument :
MSVOA_N
ClientSampled :
11986

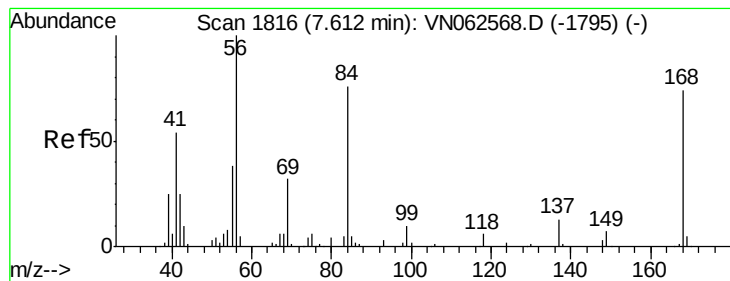
Tot Ion: 43 Resp: 1034
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#



#29
Tetrahydrofuran
Concen: 0.336 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

Tgt Ion: 42 Resp: 271
Ion Ratio Lower Upper
42 100
72 0.0 30.7 46.1#
71 0.0 29.1 43.7#





#31

Cyclohexane

Concen: 1.118 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampled :

11986

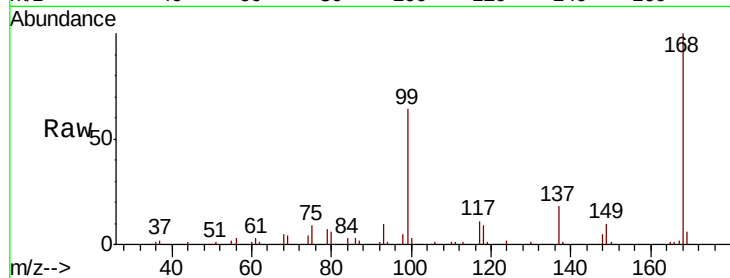
Tot Ion: 56 Resp: 3428

Ion Ratio Lower Upper

56 100

69 169.4 25.3 37.9#

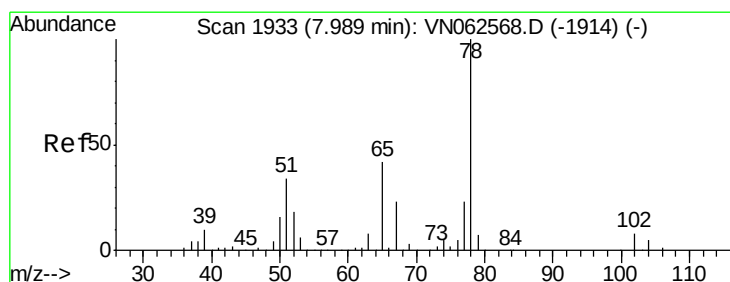
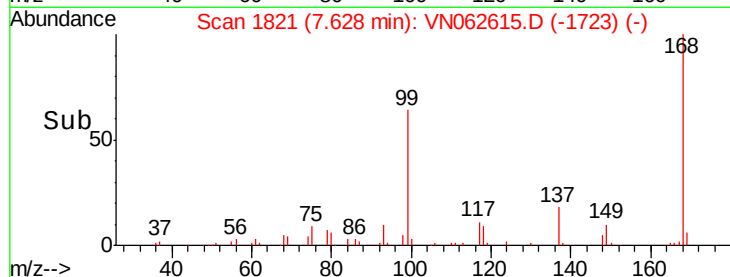
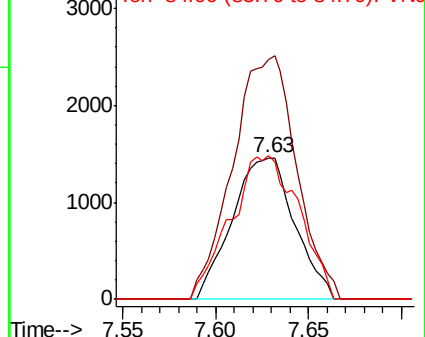
84 101.0 61.0 91.4#



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: 54.890 ug/l

RT: 7.99 min Scan# 1934

Delta R.T. 0.00 min

Lab File: VN062615.D

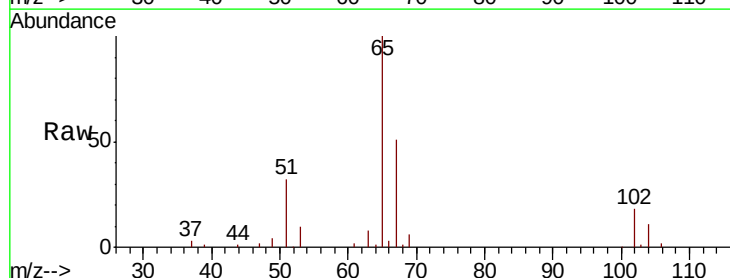
Acq: 27 Jul 2020 21:52

Tgt Ion: 65 Resp: 114217

Ion Ratio Lower Upper

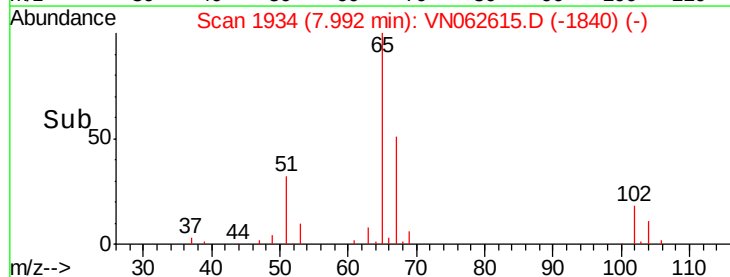
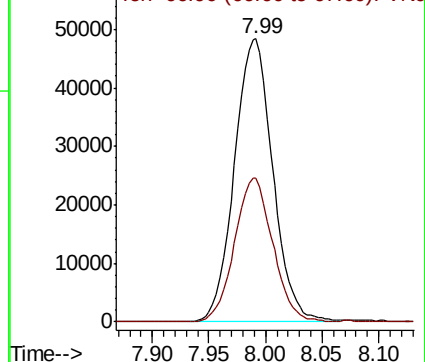
65 100

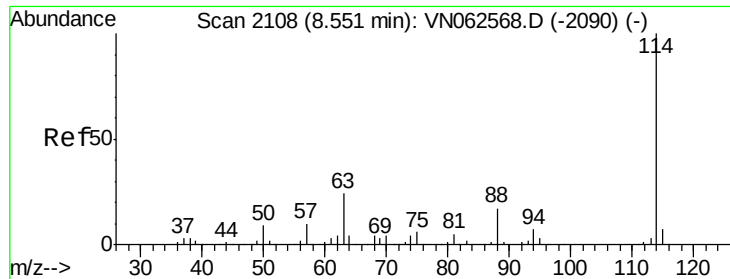
67 50.7 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

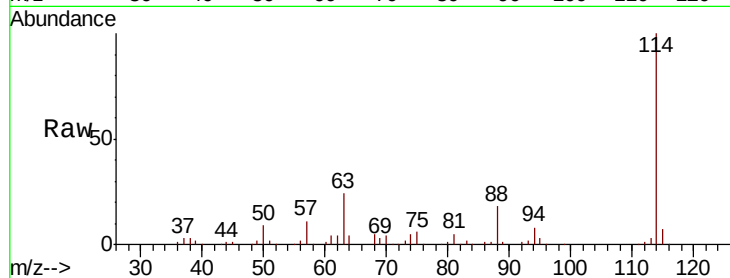




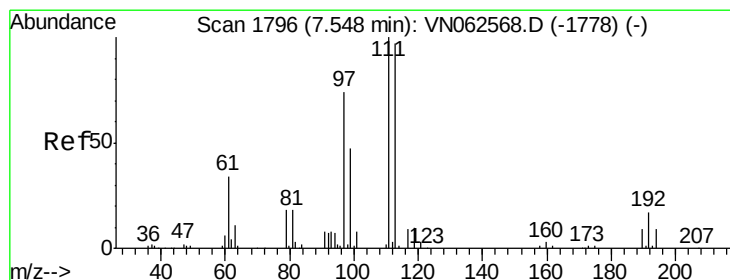
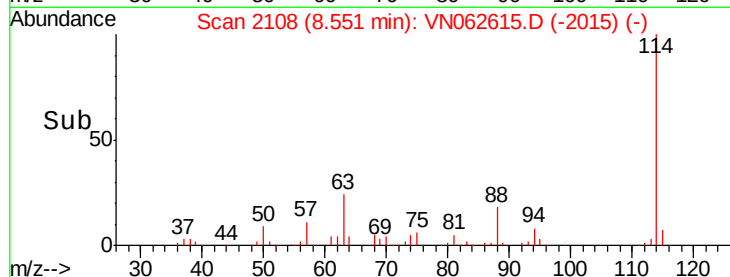
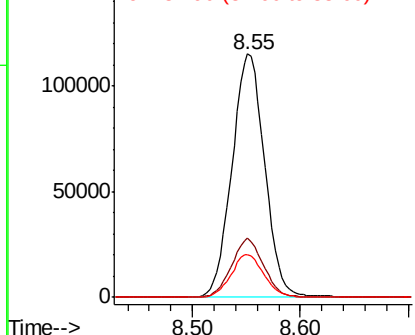
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

Instrument :
MSVOA_N
ClientSampleId :
11986

Tot Ion:114 Resp: 243071
Ion Ratio Lower Upper
114 100
63 24.1 0.0 48.4
88 17.7 0.0 33.8

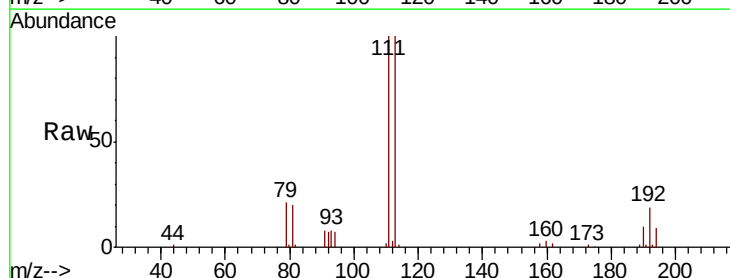


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

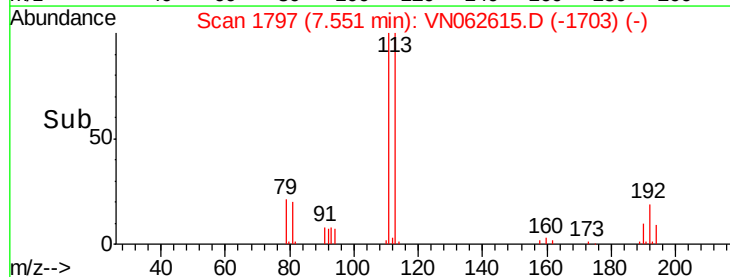
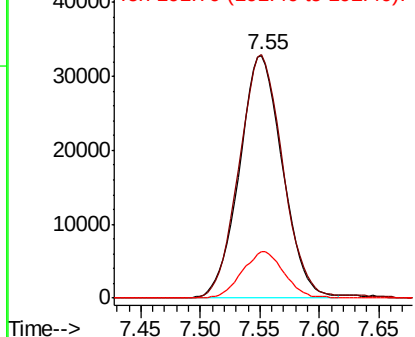


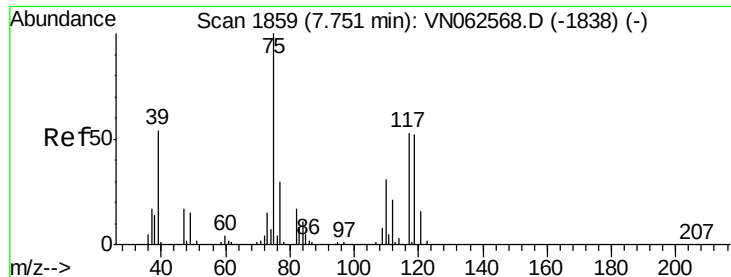
#35
Dibromofluoromethane
Concen: 51.576 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

Tgt Ion:113 Resp: 82347
Ion Ratio Lower Upper
113 100
111 101.6 82.7 124.1
192 18.6 14.8 22.2



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

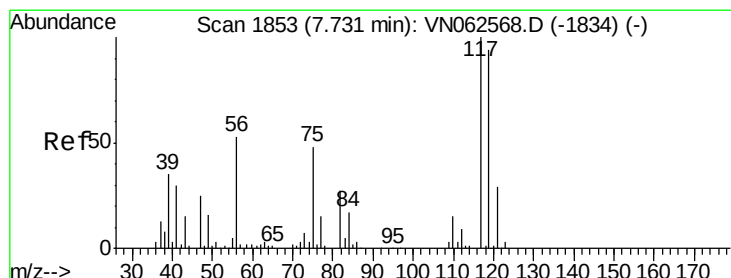
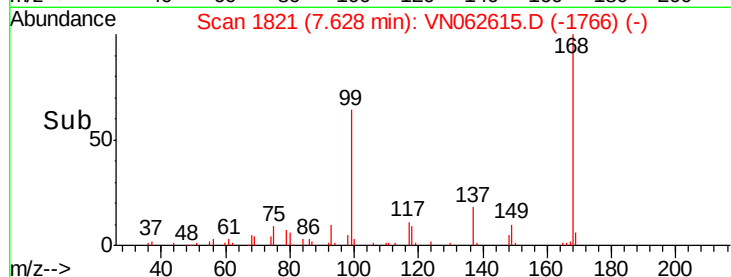
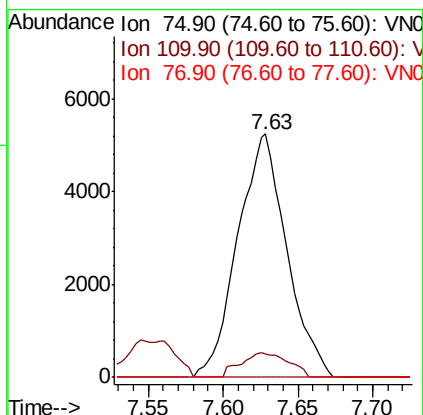
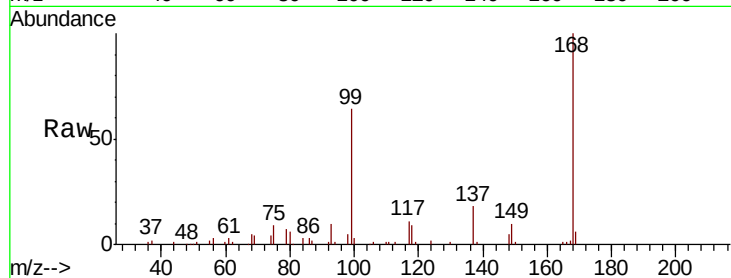




#36
 1,1-Dichloropropene
 Concen: 4.602 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062615.D
 Acq: 27 Jul 2020 21:52

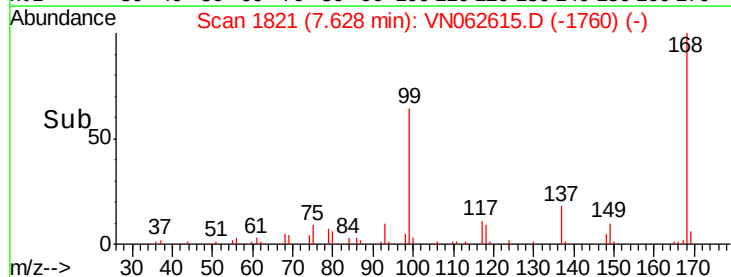
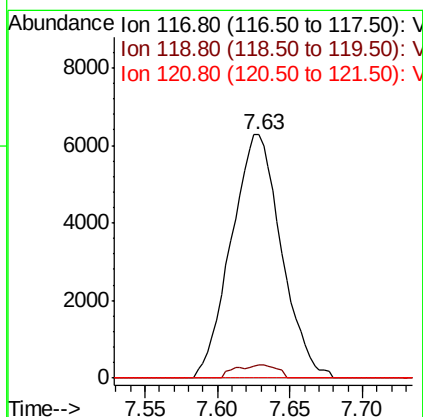
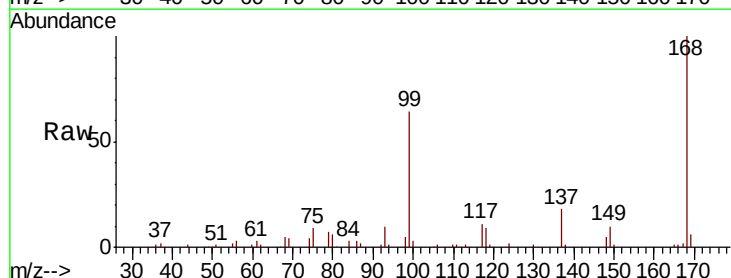
Instrument :
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 11986

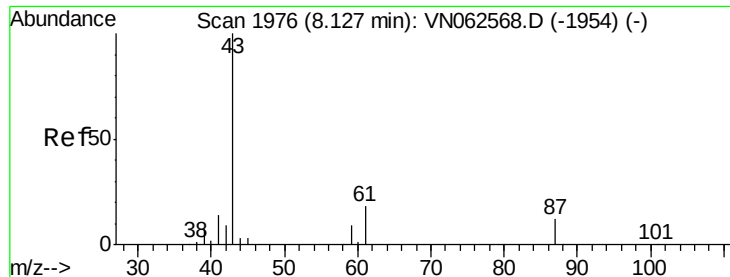
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	16.0	48.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.049 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062615.D
 Acq: 27 Jul 2020 21:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	74.8	112.2#
121	0.0	23.0	34.6#





#43

Isopropyl Acetate

Concen: 8.117 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampleId :

11986

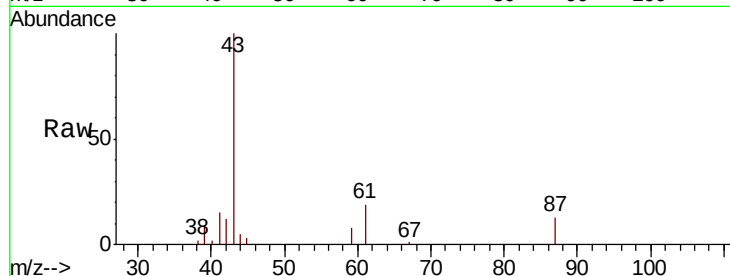
Tot Ion: 43 Resp: 36546

Ion Ratio Lower Upper

43 100

61 19.1 20.8 31.2#

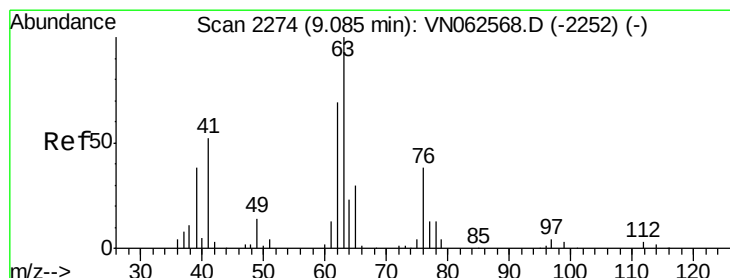
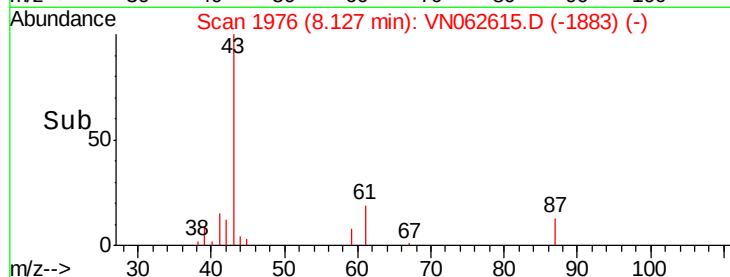
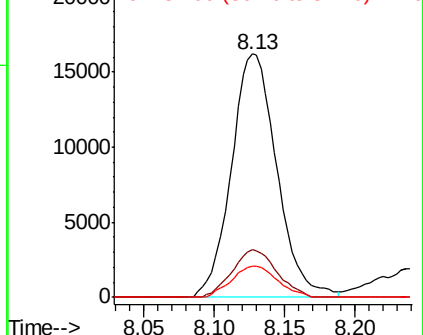
87 12.9 9.2 13.8



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: 0.290 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062615.D

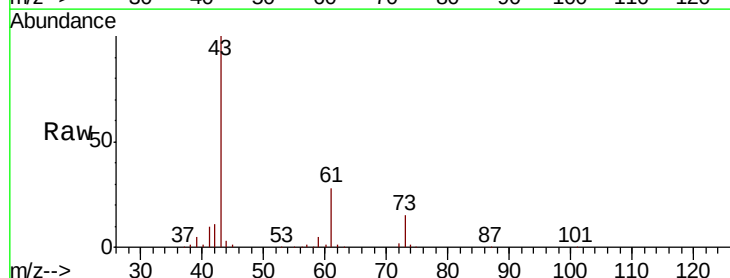
Acq: 27 Jul 2020 21:52

Tgt Ion: 63 Resp: 638

Ion Ratio Lower Upper

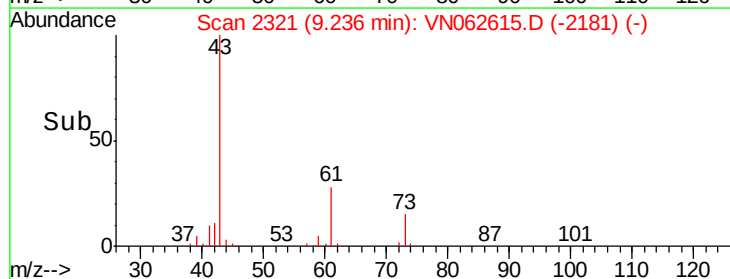
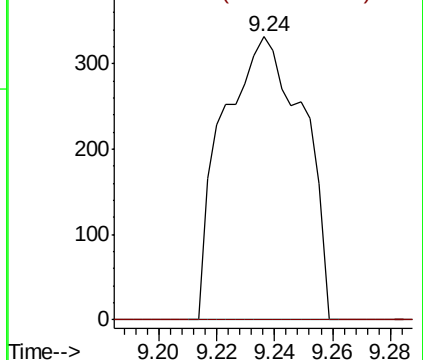
63 100

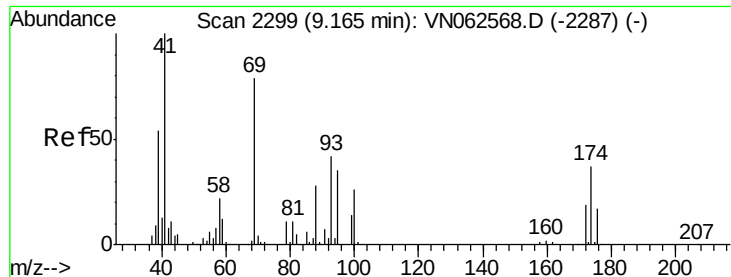
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

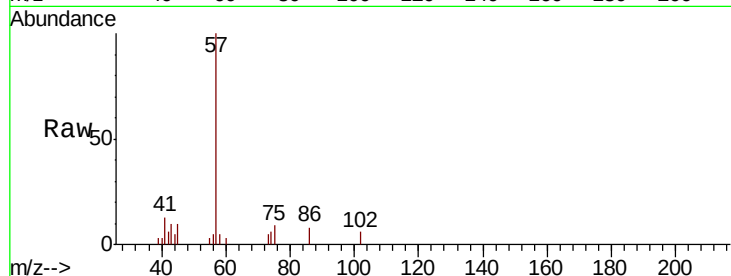




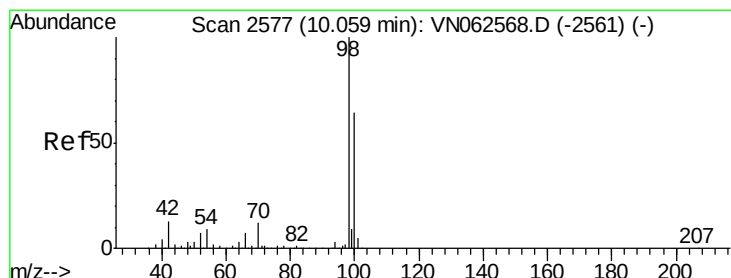
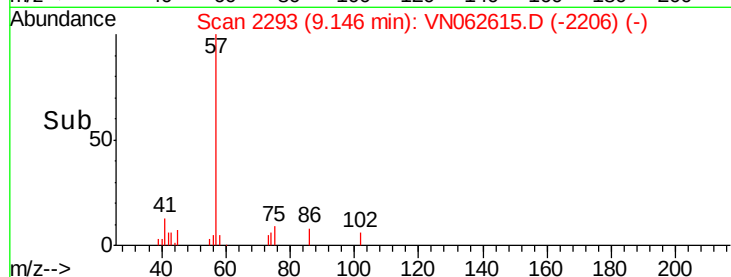
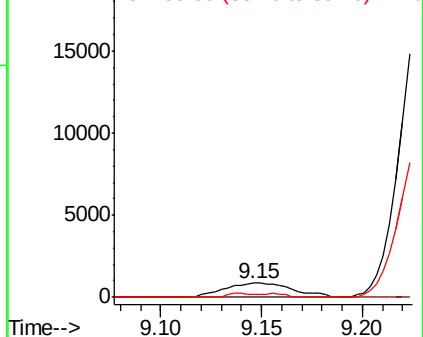
#48
Methyl methacrylate
Concen: 0.949 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

Instrument :
MSVOA_N
ClientSampleId :
11986

Tot Ion: 41 Resp: 2030
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#

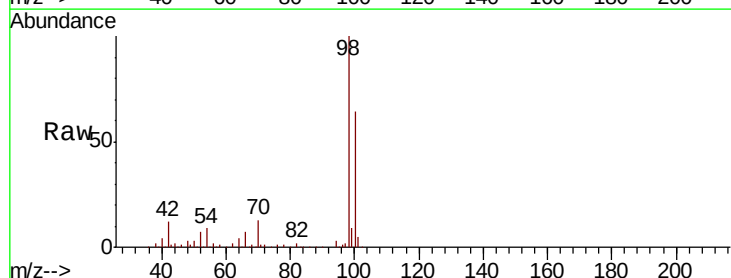


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

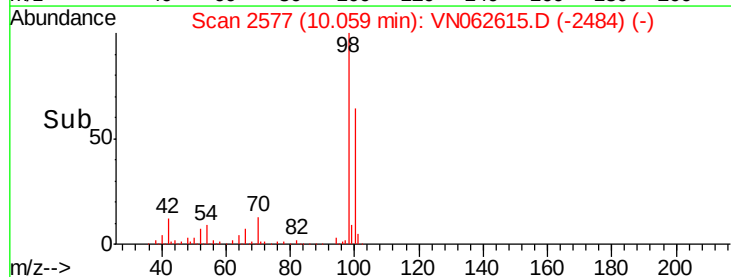
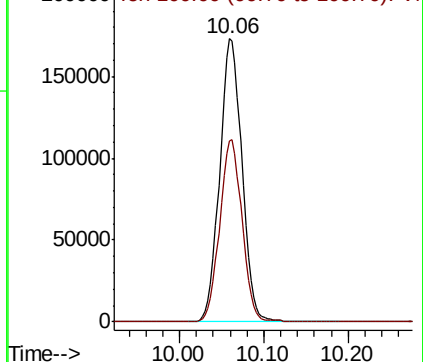


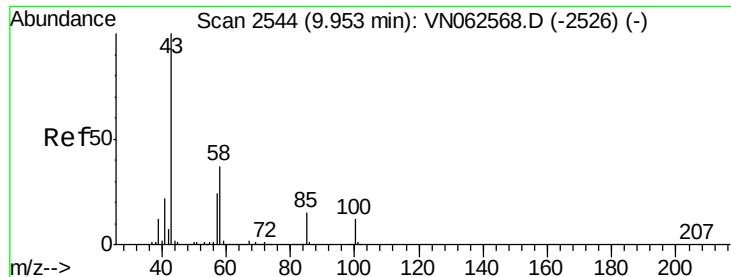
#50
Toluene-d8
Concen: 49.915 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062615.D
Acq: 27 Jul 2020 21:52

Tgt Ion: 98 Resp: 317980
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

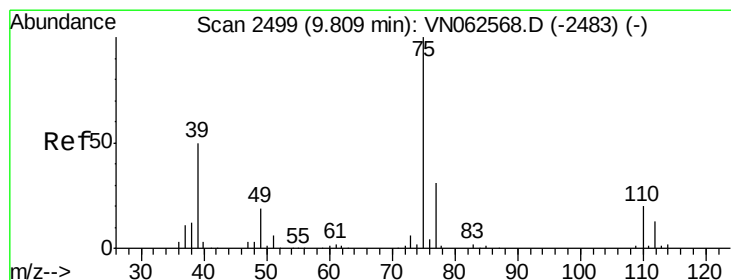
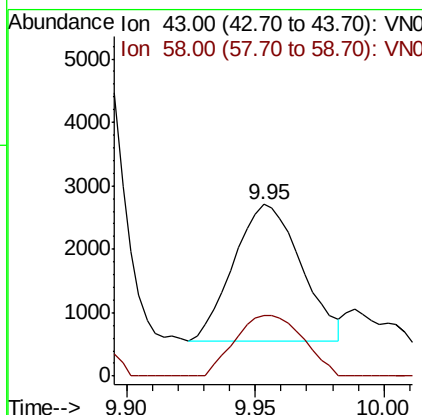
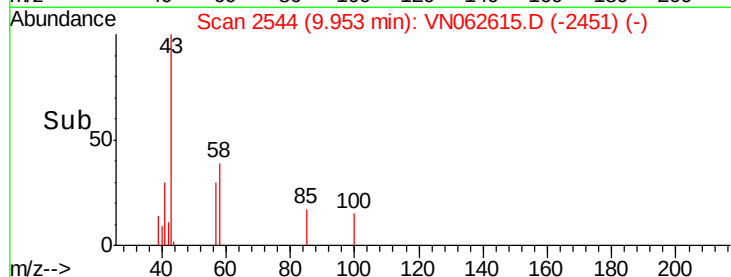
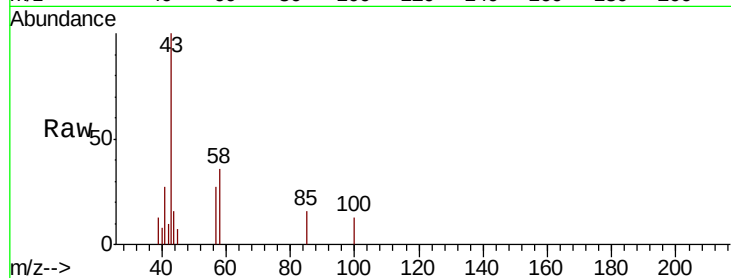




#51
 4-Methyl-2-Pentanone
 Concen: 1.460 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN062615.D
 Acq: 27 Jul 2020 21:52

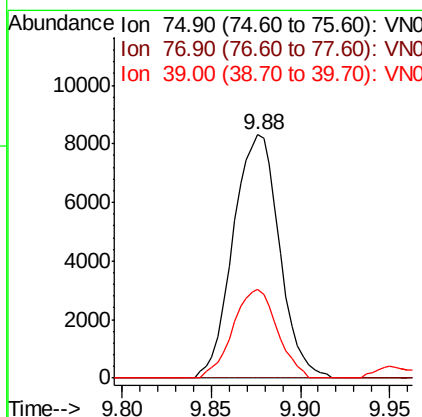
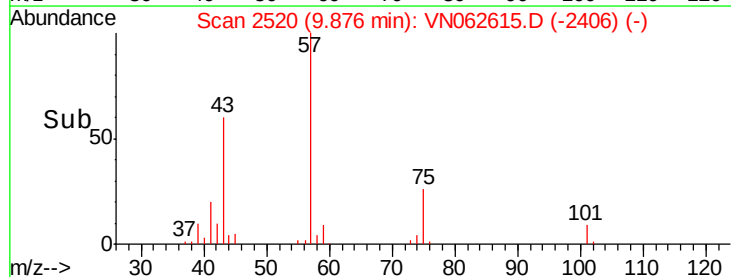
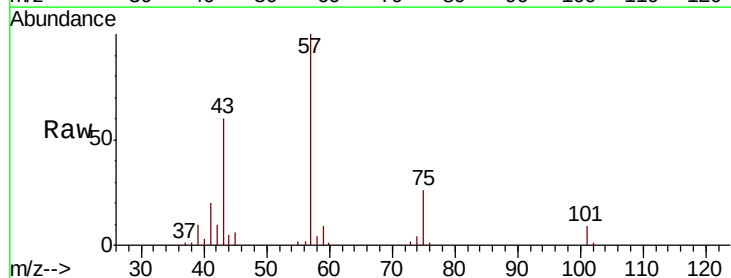
Instrument :
 MSVOA_N
 ClientSampleId :
 11986

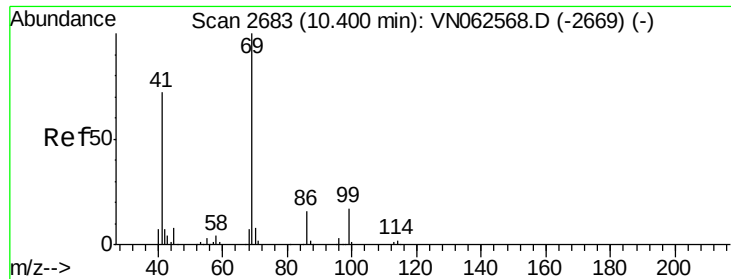
Tot Ion: 43 Resp: 3934
 Ion Ratio Lower Upper
 43 100
 58 45.0 29.8 44.6#



#54
 cis-1,3-Dichloropropene
 Concen: 4.559 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062615.D
 Acq: 27 Jul 2020 21:52

Tgt Ion: 75 Resp: 15017
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 36.5 39.8 59.8#





#56

Ethyl methacrylate

Concen: 1.989 ug/l

RT: 10.52 min Scan# 2721

Delta R.T. 0.12 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampleId :

11986

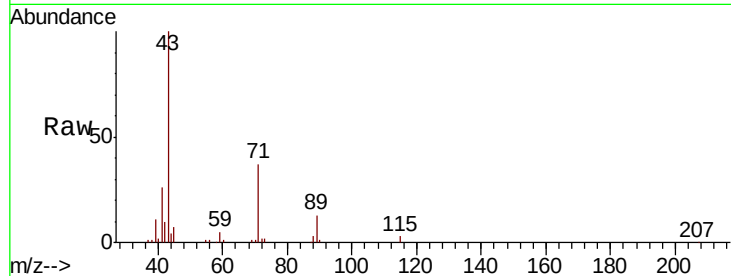
Tot Ion: 69 Resp: 724

Ion Ratio Lower Upper

69 100

41 4374.6 57.2 85.8#

39 1902.6 28.6 43.0#

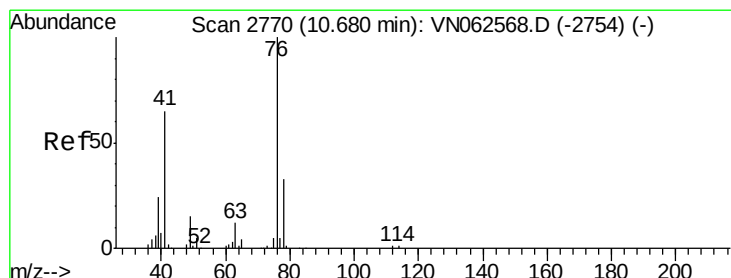
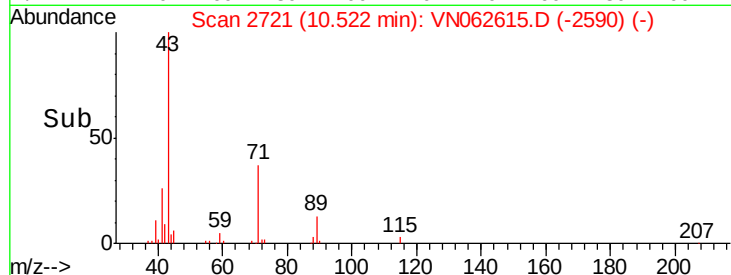
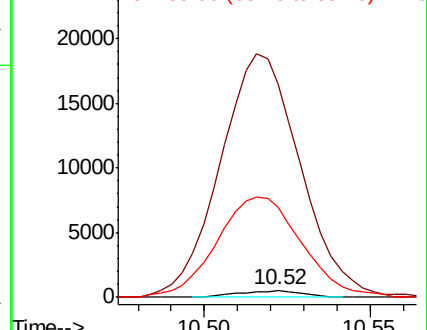


Abundance

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: 0.530 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.06 min

Lab File: VN062615.D

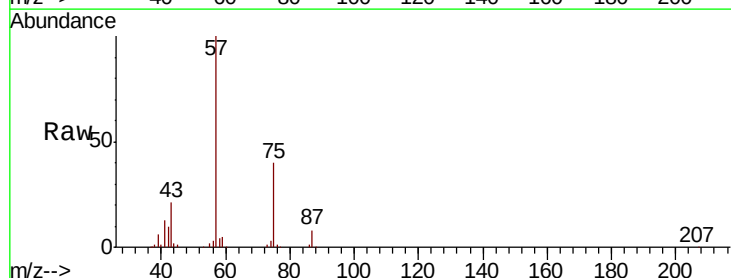
Acq: 27 Jul 2020 21:52

Tgt Ion: 76 Resp: 1716

Ion Ratio Lower Upper

76 100

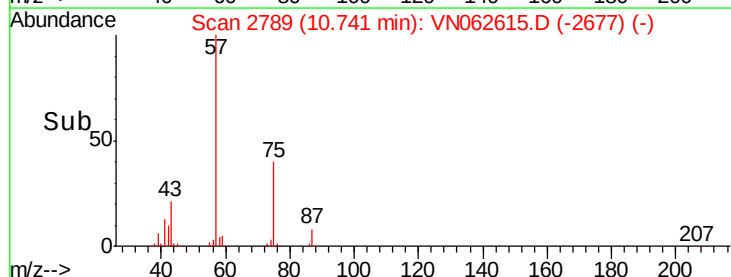
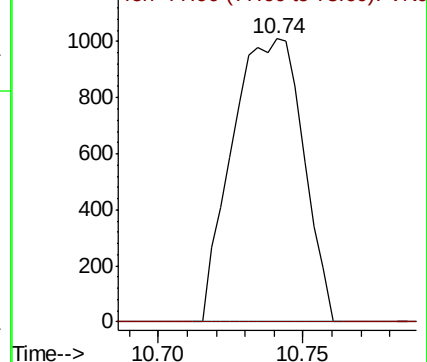
78 0.0 26.3 39.5#

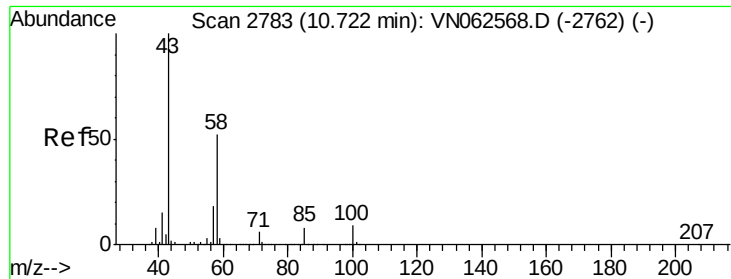


Abundance

Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 17.829 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampleId :

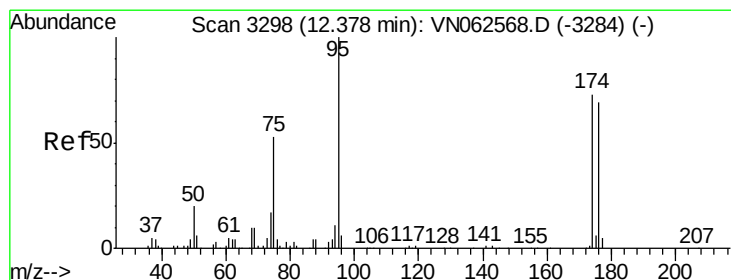
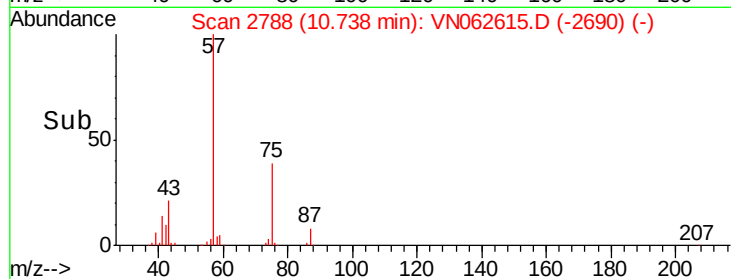
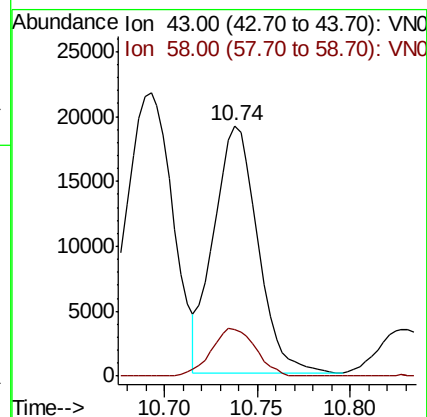
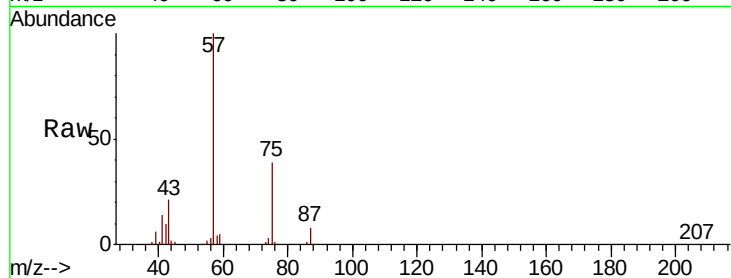
11986

Tot Ion: 43 Resp: 31350

Ion Ratio Lower Upper

43 100

58 19.4 26.0 78.0#



#62

4-Bromofluorobenzene

Concen: 52.668 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

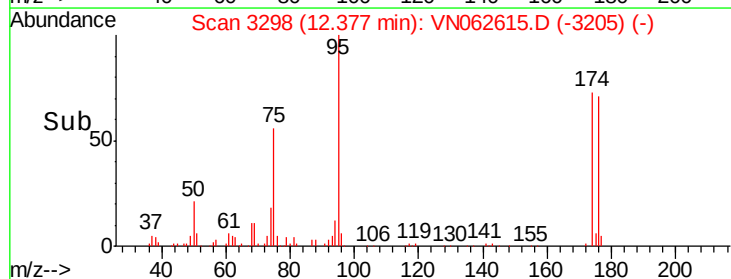
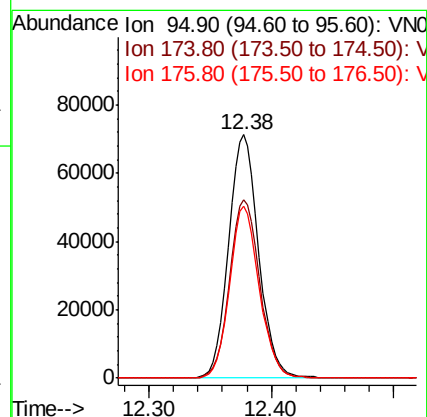
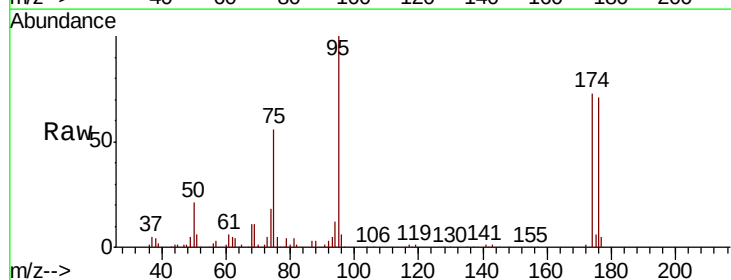
Tgt Ion: 95 Resp: 122680

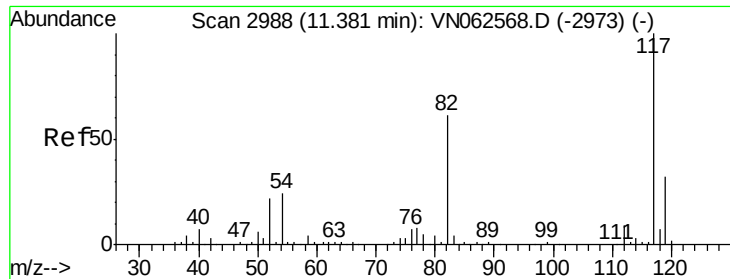
Ion Ratio Lower Upper

95 100

174 74.1 0.0 144.6

176 70.1 0.0 139.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampleId :

11986

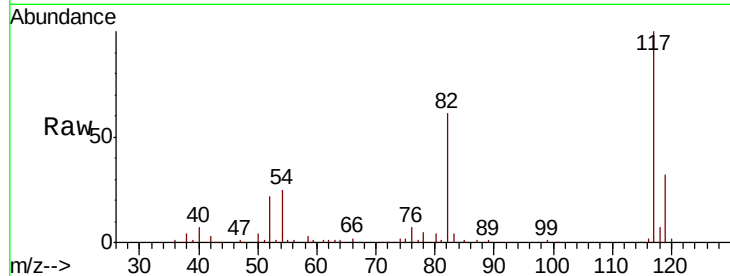
Tot Ion:117 Resp: 248594

Ion Ratio Lower Upper

117 100

82 61.1 49.0 73.6

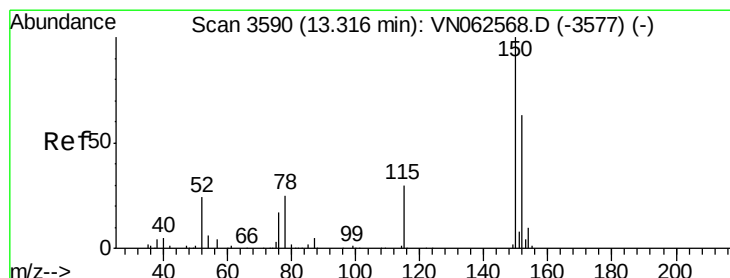
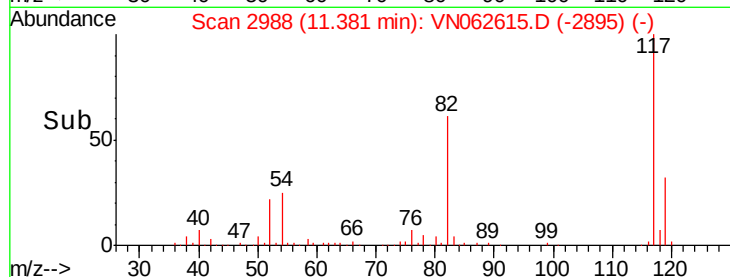
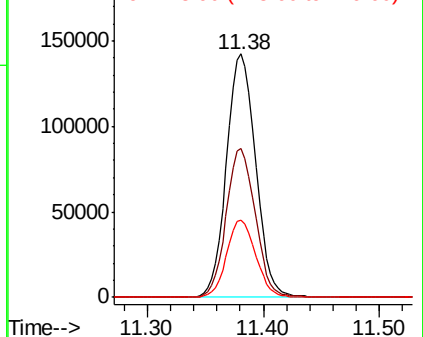
119 31.8 25.4 38.2



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

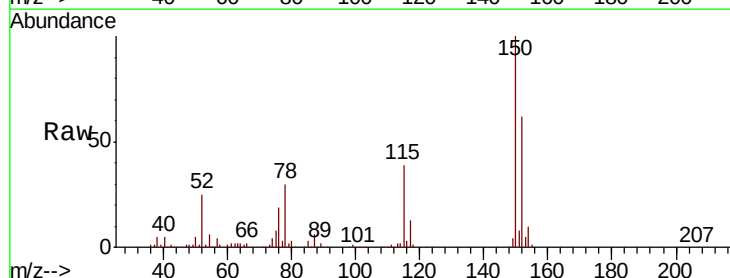
Tgt Ion:152 Resp: 104342

Ion Ratio Lower Upper

152 100

115 62.4 31.8 95.4

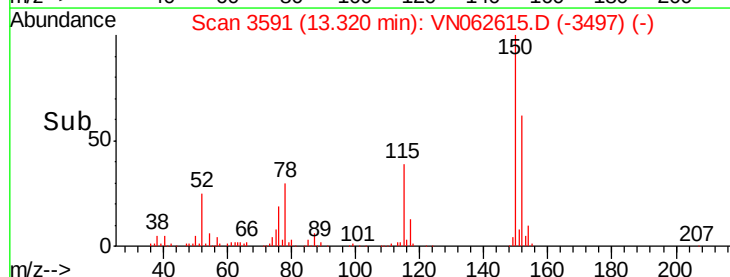
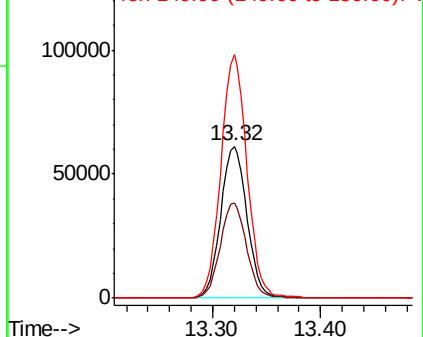
150 158.6 0.0 351.4

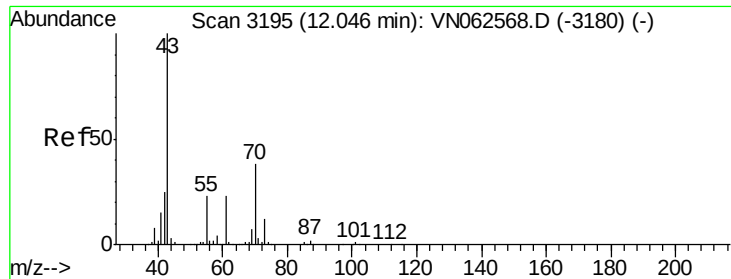


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.385 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampleId :

11986

Tot Ion: 43 Resp: 1418

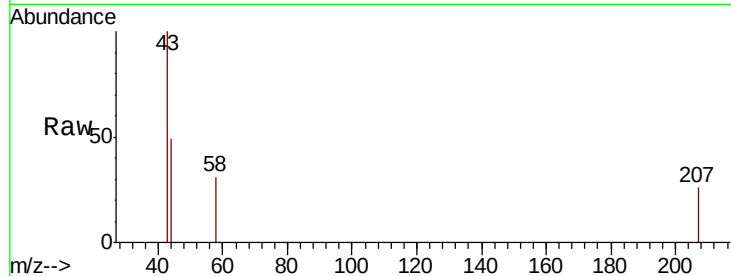
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

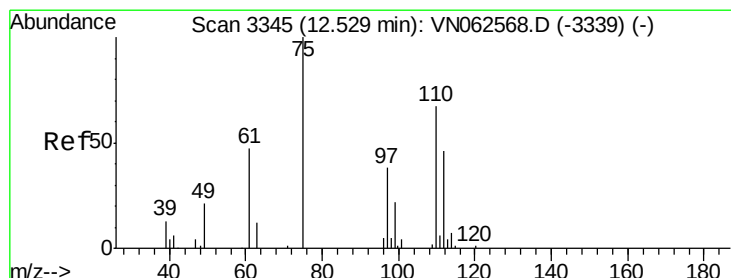
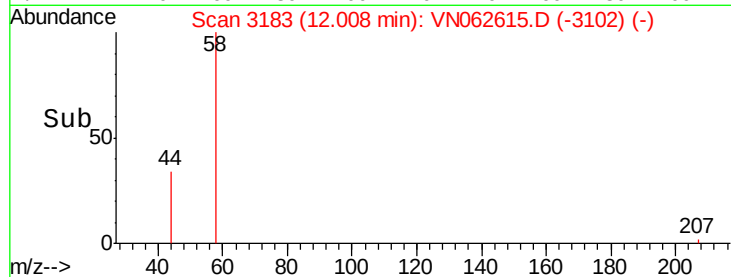
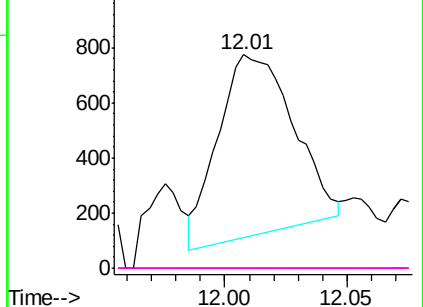


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.675 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062615.D

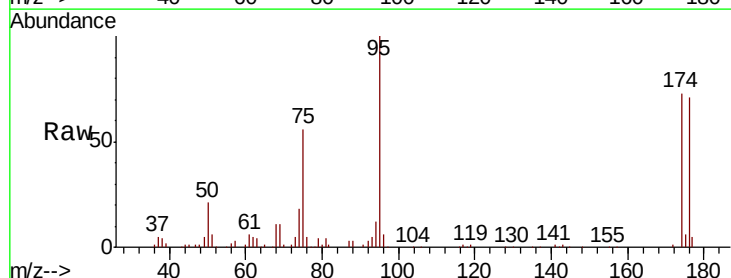
Acq: 27 Jul 2020 21:52

Tgt Ion: 75 Resp: 68189

Ion Ratio Lower Upper

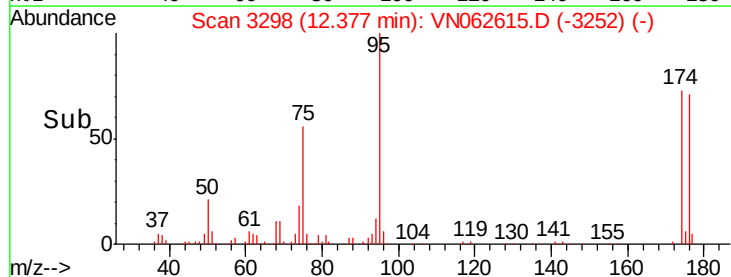
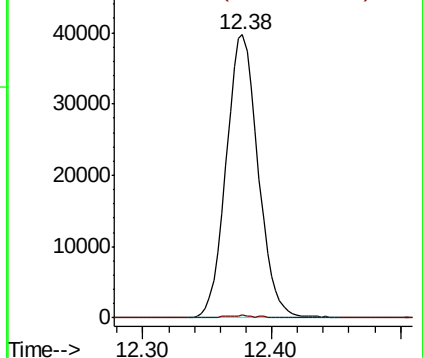
75 100

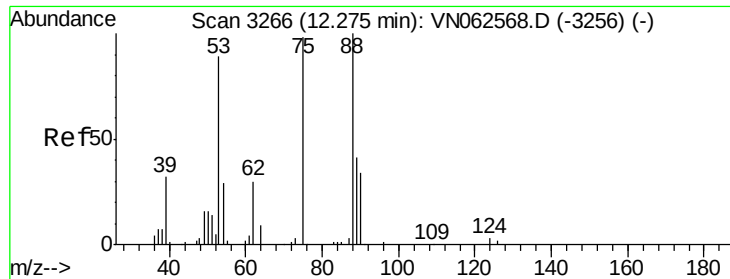
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.473 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

Instrument :

MSVOA_N

ClientSampled :

11986

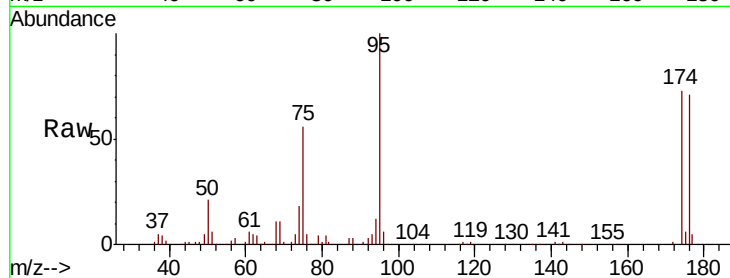
Tot Ion: 75 Resp: 68189

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

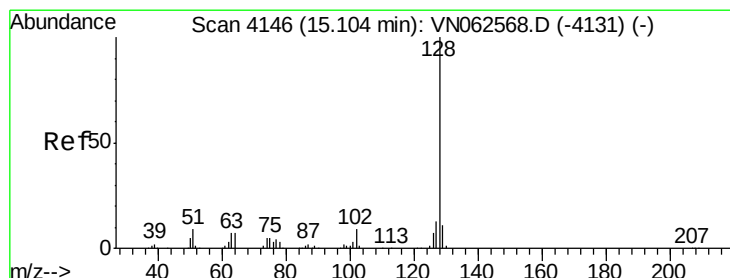
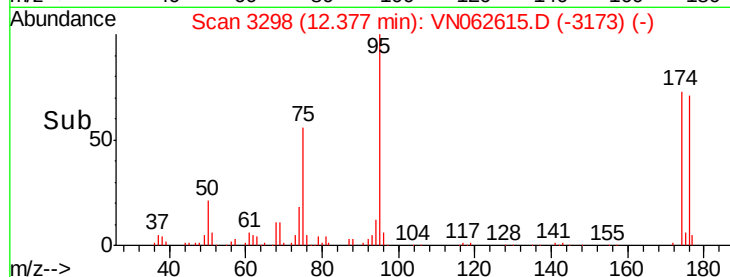
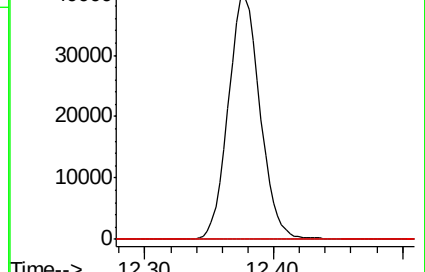
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062568.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062568.D (-3256) (-)



#95

Naphthalene

Concen: 3.782 ug/l

RT: 15.12 min Scan# 4151

Delta R.T. 0.02 min

Lab File: VN062615.D

Acq: 27 Jul 2020 21:52

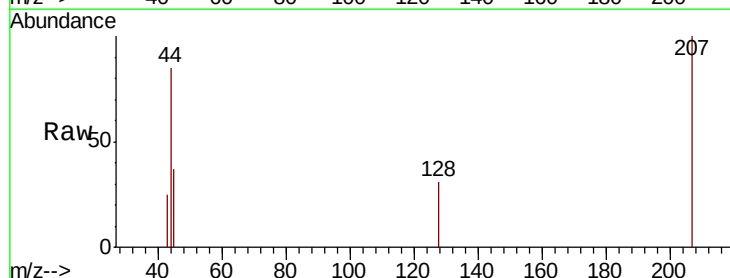
Tgt Ion: 128 Resp: 102

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN062568.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN062568.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN062568.D (-4131) (-)

