

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062420\
 Data File : VN062087.D
 Acq On : 25 Jun 2020 1:27
 Operator : JC/MD
 Sample : L2818-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TR-05-062320

Quant Time: Jun 25 04:35:44 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	213352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	400886	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	385294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143638	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	152125	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
35) Dibromofluoromethane	7.55	113	127432	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
50) Toluene-d8	10.06	98	506776	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.38	95	163532	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	

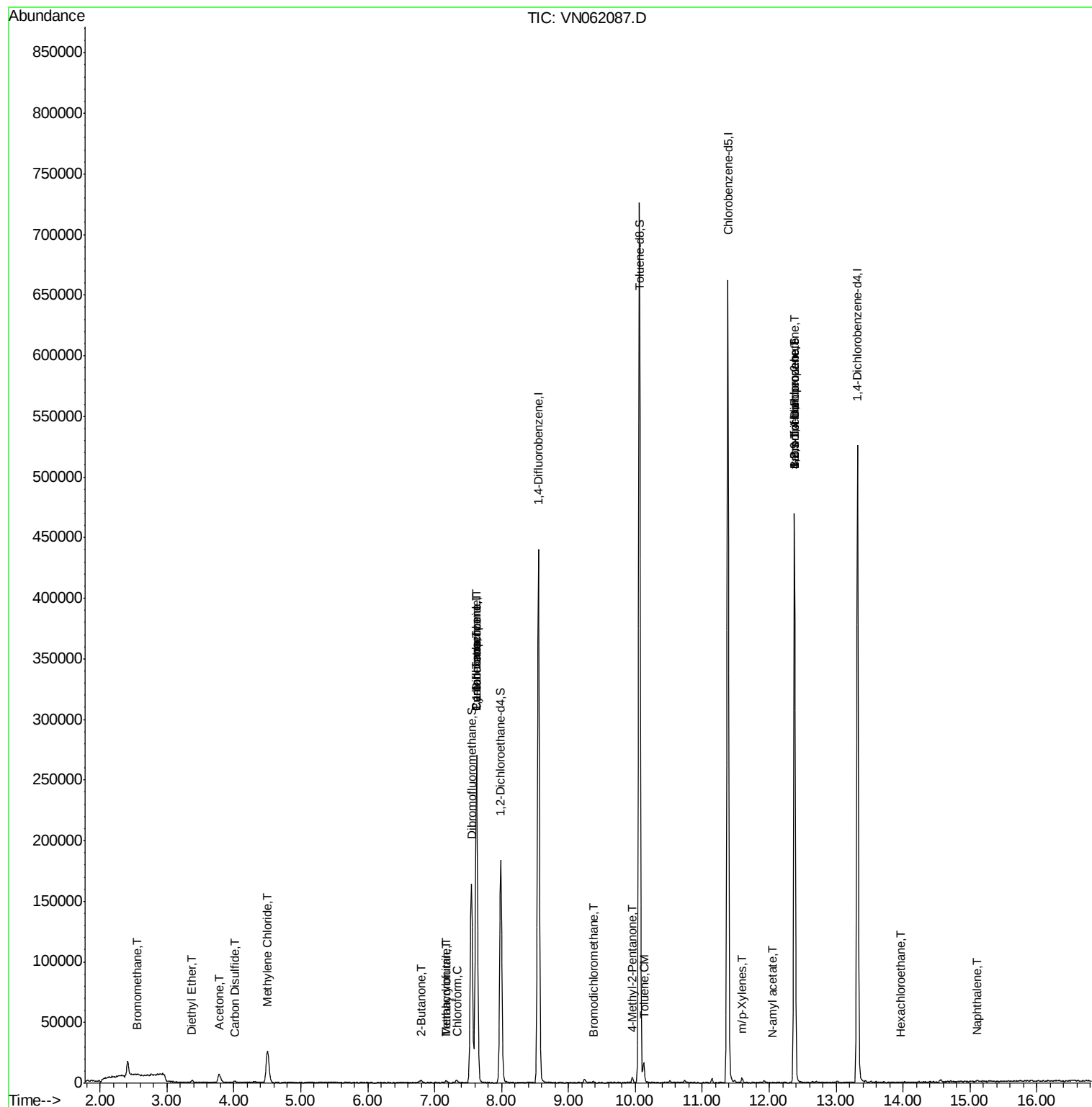
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	295	Below Cal	#	41
5) Bromomethane	2.55	94	609	0.248	ug/l	93
8) Diethyl Ether	3.38	74	935	0.572	ug/l #	44
16) Acetone	3.78	43	11337	8.144	ug/l	91
17) Carbon Disulfide	4.02	76	2334	0.383	ug/l #	75
20) Methylene Chloride	4.50	84	21190	7.526	ug/l	95
25) 2-Butanone	6.79	43	1287	0.879	ug/l #	85
29) Tetrahydrofuran	7.17	42	764	0.797	ug/l #	49
30) Chloroform	7.34	83	2655	0.534	ug/l #	77
31) Cyclohexane	7.62	56	4758	1.150	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	17207	4.270	ug/l #	48
38) Carbon Tetrachloride	7.63	117	22310	5.873	ug/l #	15
41) Methacrylonitrile	7.17	41	428	0.277	ug/l #	29
47) Bromodichloromethane	9.36	83	955	0.230	ug/l #	90
51) 4-Methyl-2-Pentanone	9.95	43	3165	0.996	ug/l	92
52) Toluene	10.13	92	6078	0.811	ug/l	94
68) m/p-Xylenes	11.60	106	1483	0.268	ug/l	97
71) Bromoform	12.37	173	1384	0.665	ug/l #	1
74) N-amyl acetate	12.05	43	65	3.358	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	84315	24.935	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	84315	72.820	ug/l #	13
90) Hexachloroethane	13.97	117	378	0.216	ug/l #	17
95) Naphthalene	15.11	128	1696	4.223	ug/l #	69

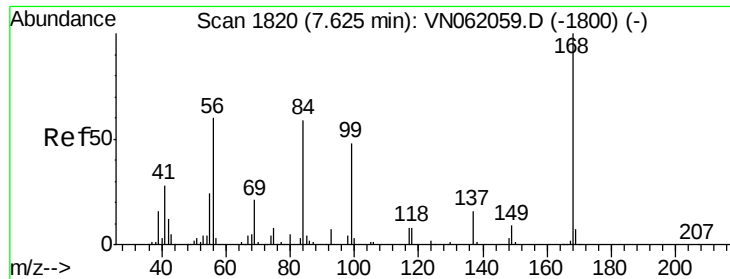
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

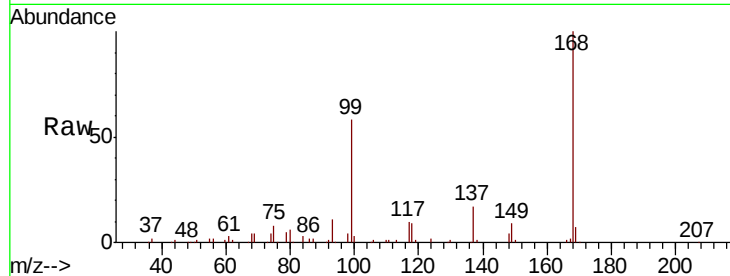
TR-05-062320

Tot Ion:168 Resp: 213352

Ion Ratio Lower Upper

168 100

99 58.4 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062087.D

Ion 98.90 (98.60 to 99.60): VN062087.D

7.63

100000

80000

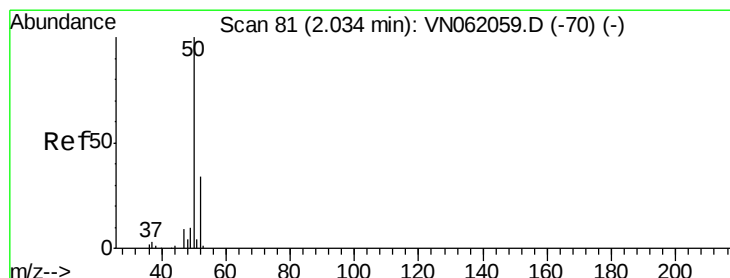
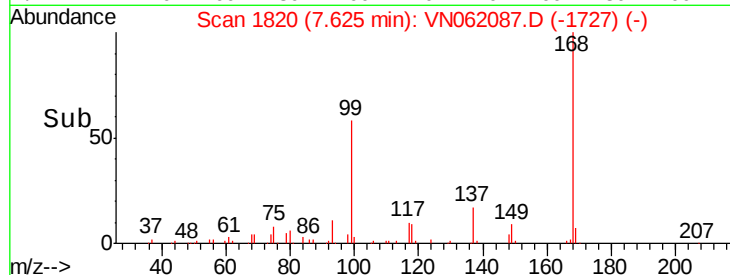
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.01 min

Lab File: VN062087.D

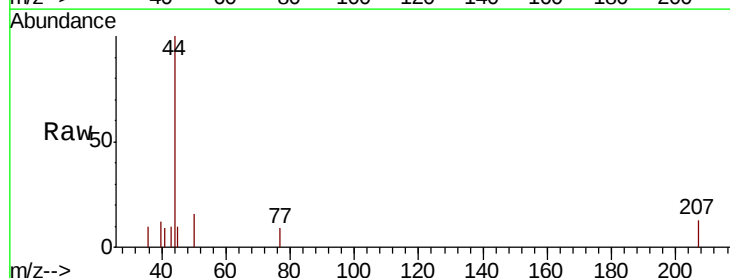
Acq: 25 Jun 2020 1:27

Tgt Ion: 50 Resp: 295

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN062087.D

Ion 51.90 (51.60 to 52.60): VN062087.D

300

250

200

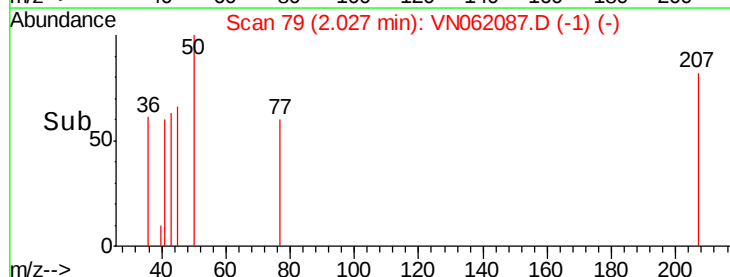
150

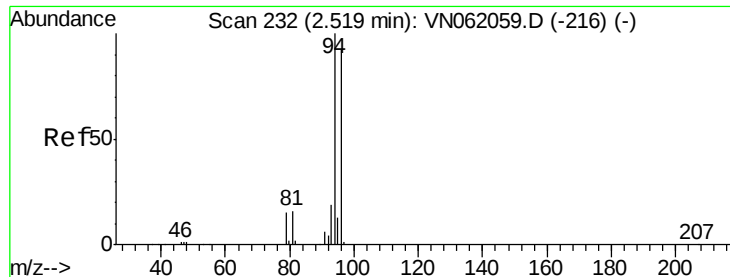
100

50

0

Time--> 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.248 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.03 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

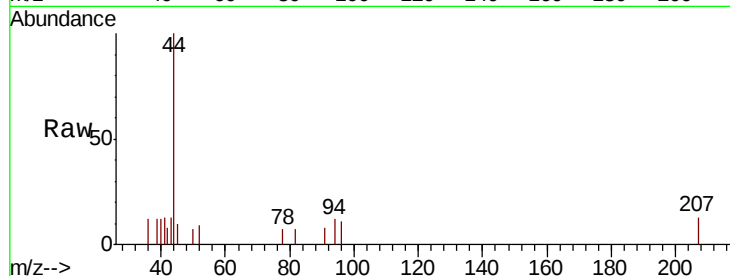
TR-05-062320

Tot Ion: 94 Resp: 609

Ion Ratio Lower Upper

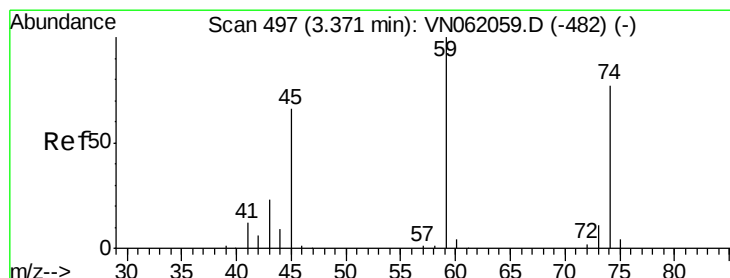
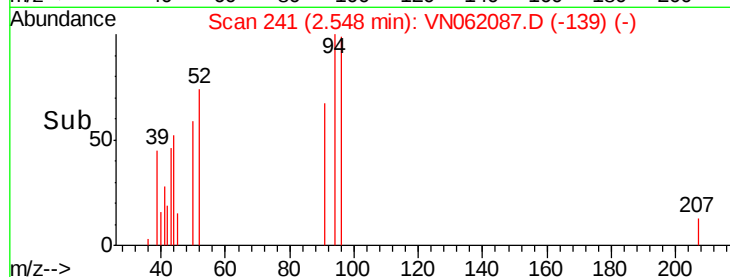
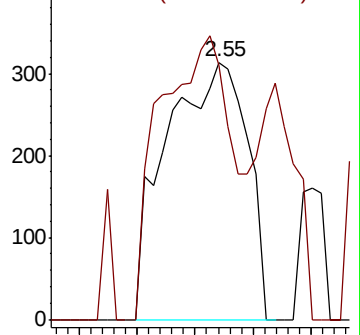
94 100

96 98.7 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#8

Diethyl Ether

Concen: 0.572 ug/l

RT: 3.38 min Scan# 501

Delta R.T. 0.01 min

Lab File: VN062087.D

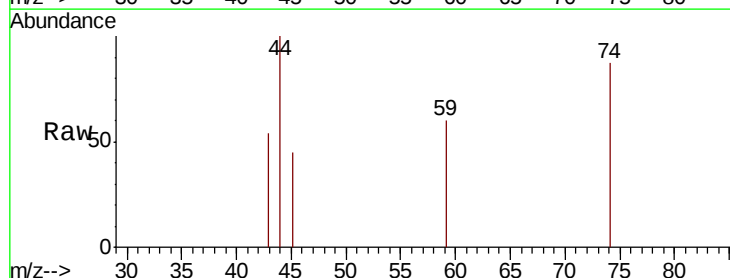
Acq: 25 Jun 2020 1:27

Tgt Ion: 74 Resp: 935

Ion Ratio Lower Upper

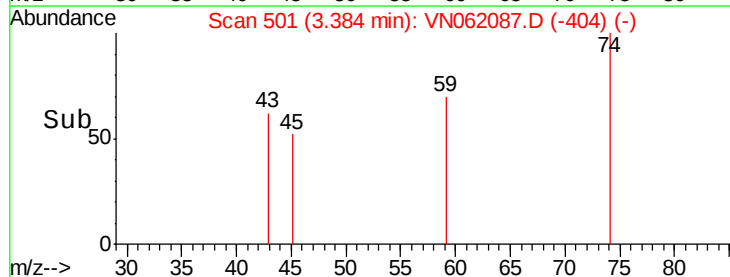
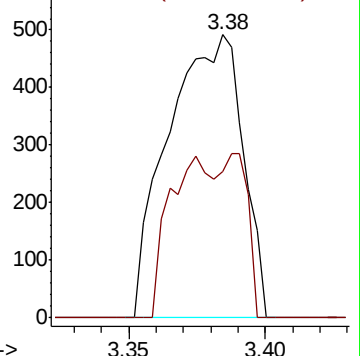
74 100

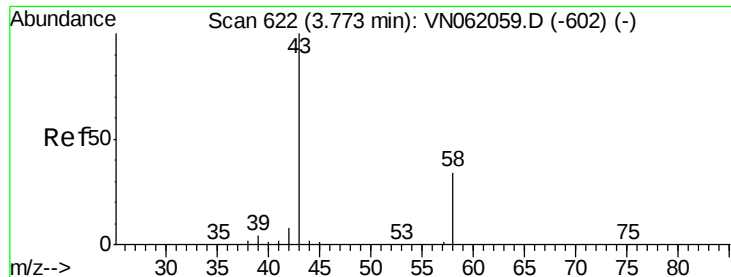
45 33.9 42.5 127.5#



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0





#16

Acetone

Concen: 8.144 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

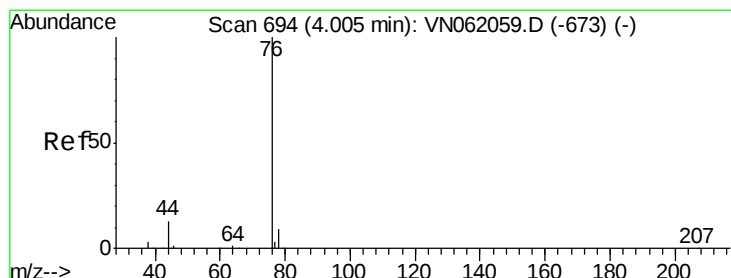
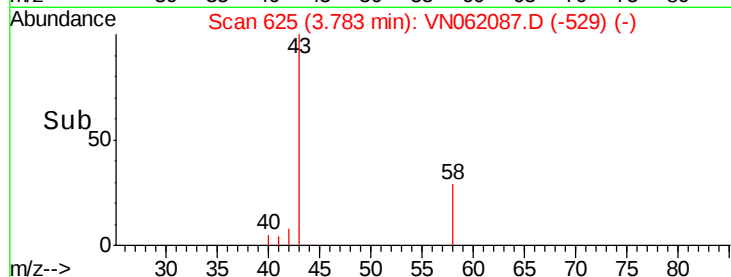
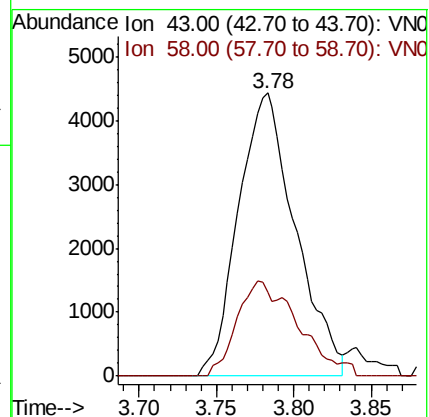
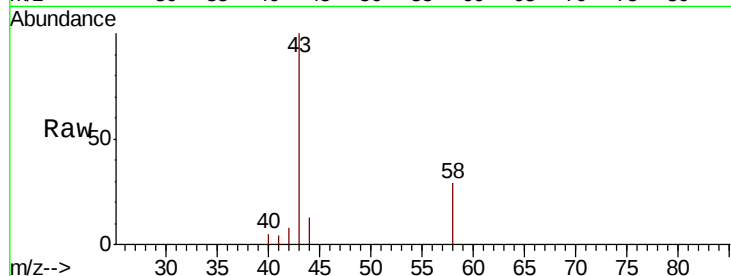
TR-05-062320

Tot Ion: 43 Resp: 11337

Ion Ratio Lower Upper

43 100

58 29.4 27.5 41.3



#17

Carbon Disulfide

Concen: 0.383 ug/l

RT: 4.02 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN062087.D

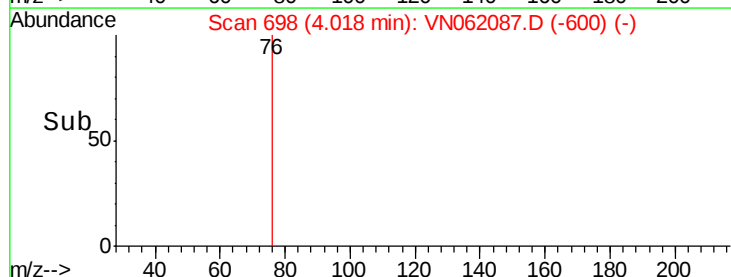
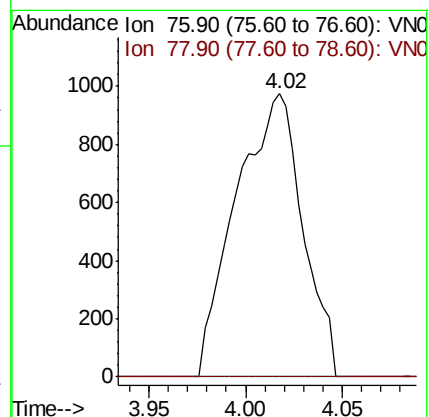
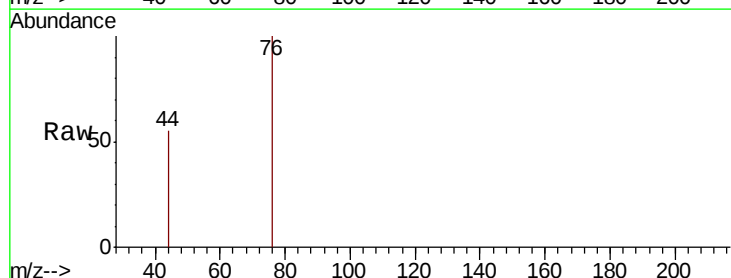
Acq: 25 Jun 2020 1:27

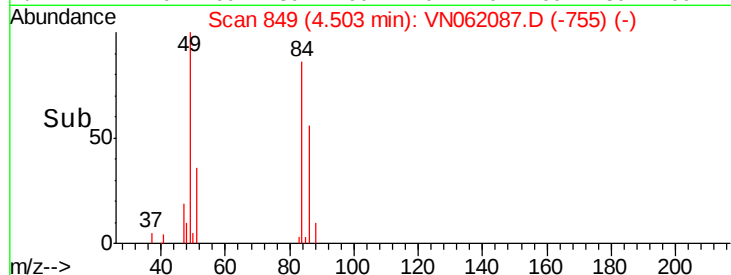
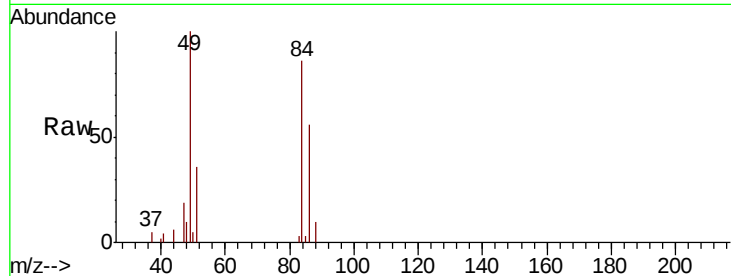
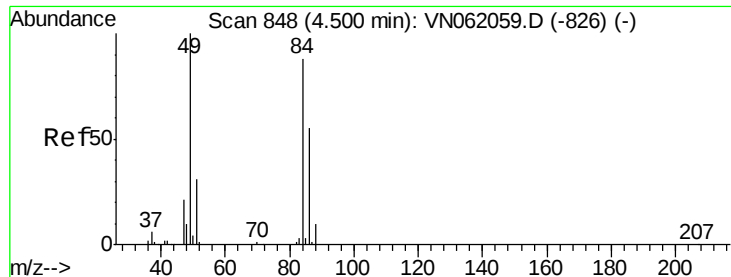
Tgt Ion: 76 Resp: 2334

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

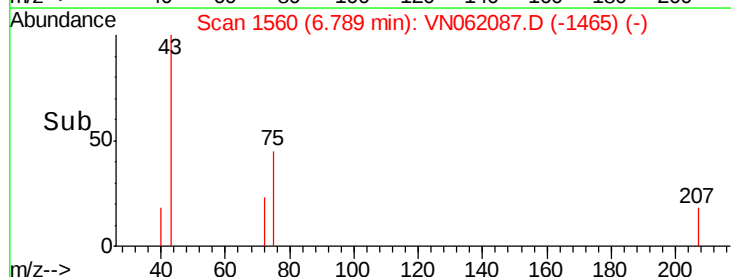
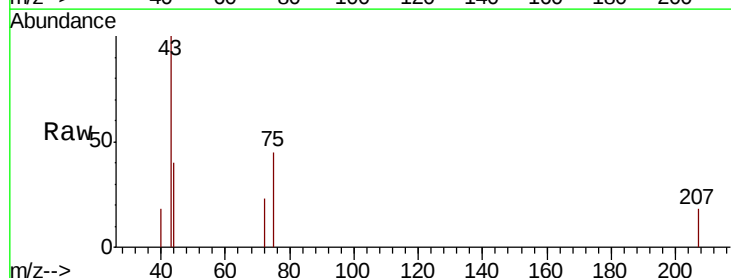
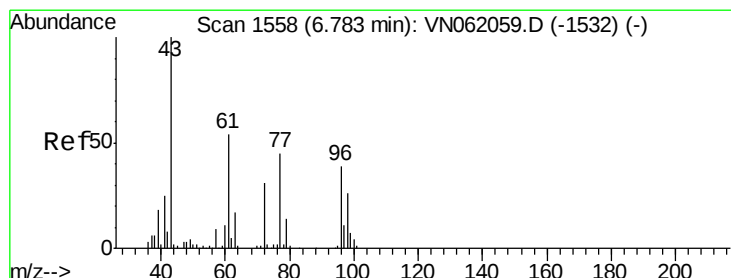
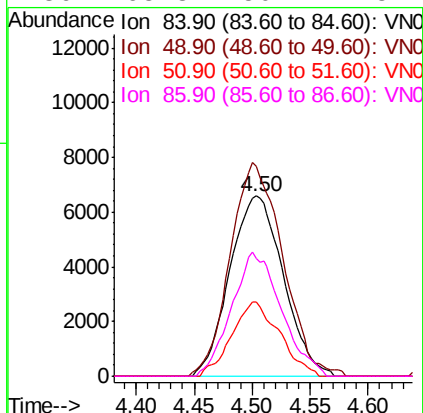




#20
Methvlene Chloride
Concen: 7.526 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

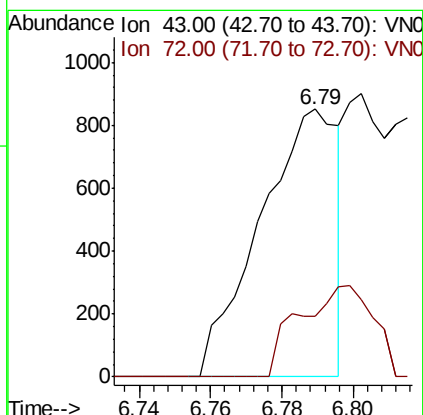
Instrument :
MSVOA_N
ClientSampleId :
TR-05-062320

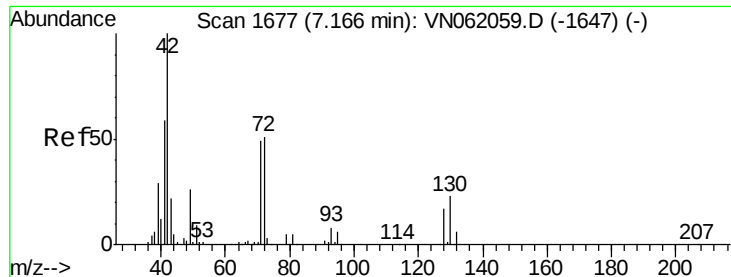
Tot Ion:	84	Resp:	21190
Ion	Ratio	Lower	Upper
84	100		
49	116.8	90.6	136.0
51	41.6	27.8	41.8
86	65.8	50.1	75.1



#25
2-Butanone
Concen: 0.879 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.01 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

Tgt Ion:	43	Resp:	1287
Ion	Ratio	Lower	Upper
43	100		
72	22.6	24.8	37.2#

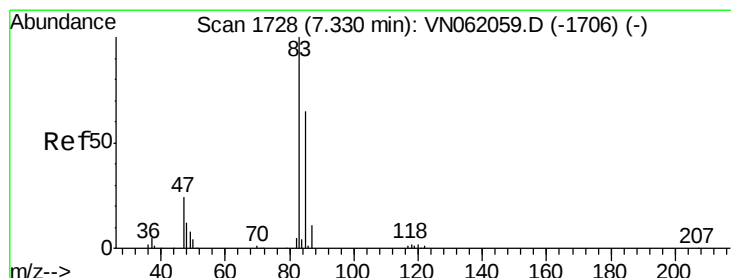
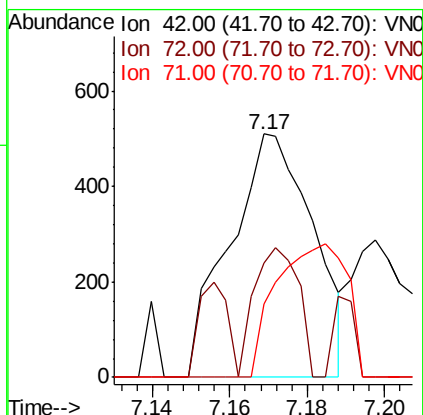
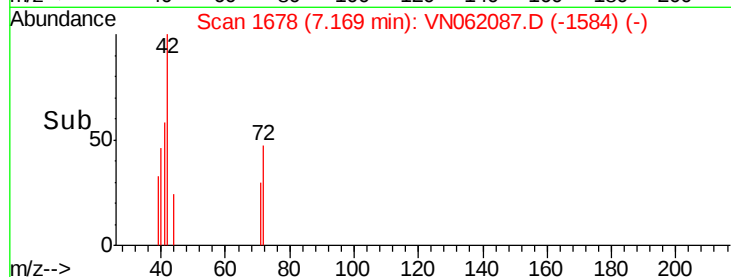
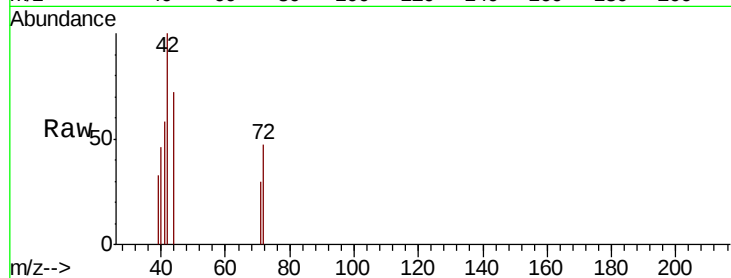




#29
Tetrahydrofuran
Concen: 0.797 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

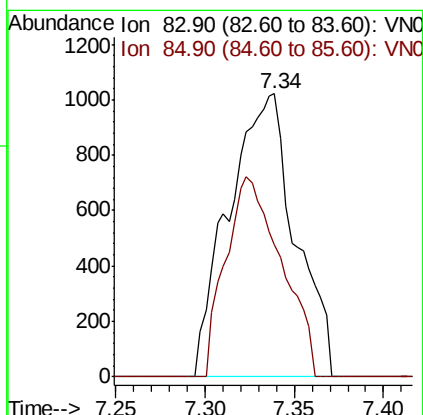
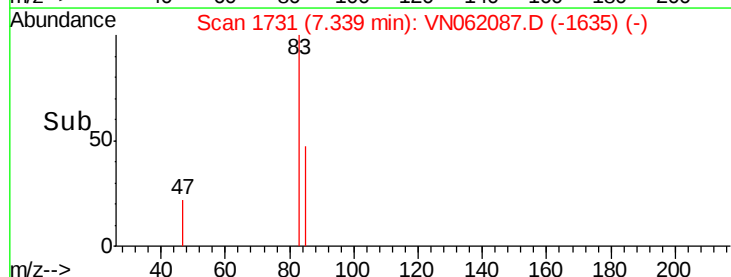
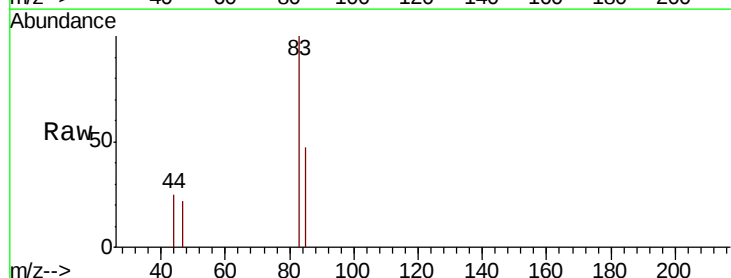
Instrument :
MSVOA_N
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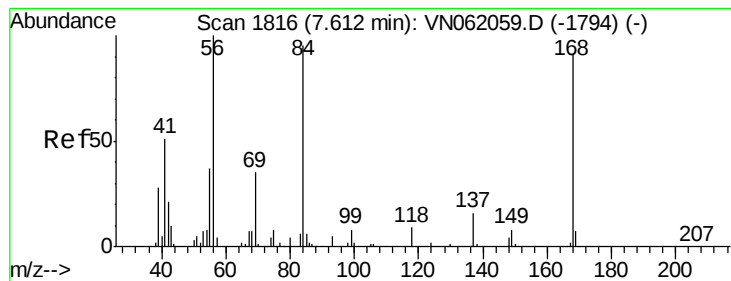
Tot Ion: 42 Resp: 764
Ion Ratio Lower Upper
42 100
72 28.3 41.1 61.7#
71 0.0 38.2 57.4#



#30
Chloroform
Concen: 0.534 ug/l
RT: 7.34 min Scan# 1731
Delta R.T. 0.01 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

Tgt Ion: 83 Resp: 2655
Ion Ratio Lower Upper
83 100
85 46.9 52.3 78.5#





#31

Cyclohexane

Concen: 1.150 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

TR-05-062320

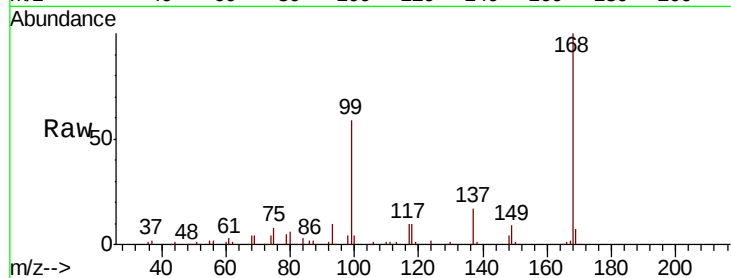
Tot Ion: 56 Resp: 4758

Ion Ratio Lower Upper

56 100

69 165.6 28.0 42.0#

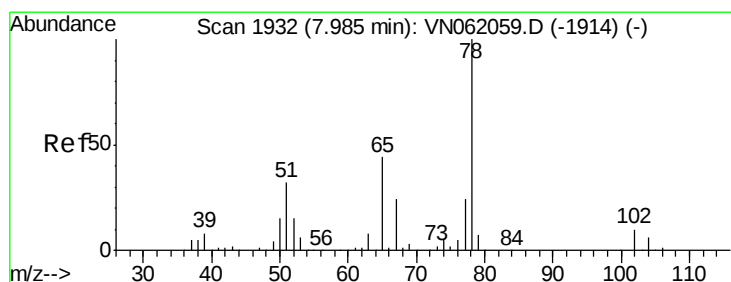
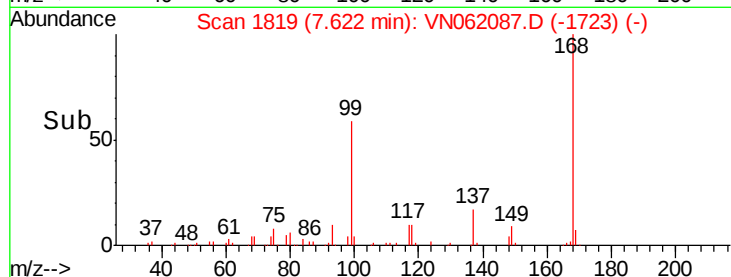
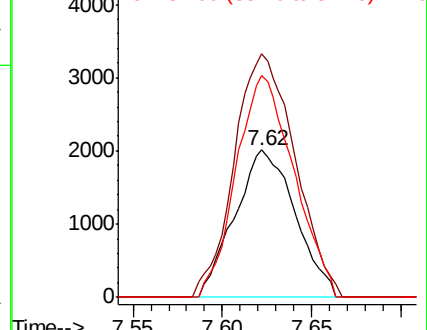
84 151.1 76.1 114.1#



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: 50.809 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062087.D

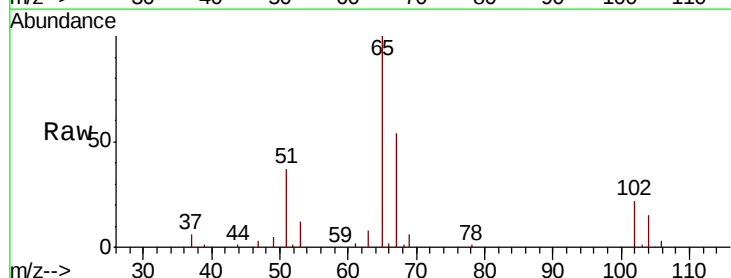
Acq: 25 Jun 2020 1:27

Tgt Ion: 65 Resp: 152125

Ion Ratio Lower Upper

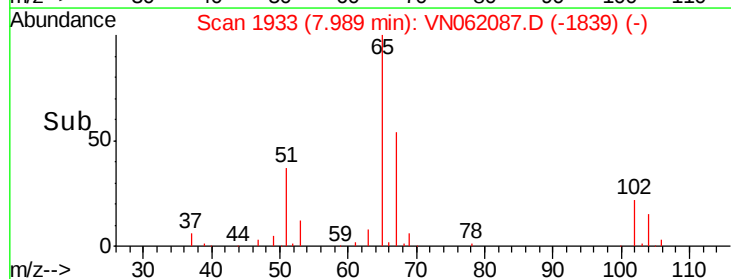
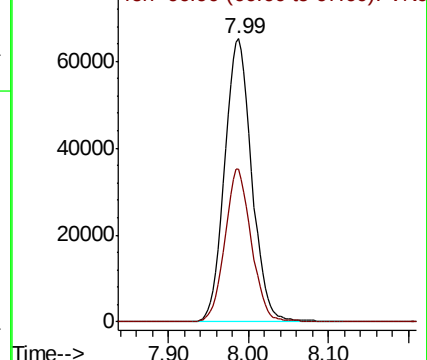
65 100

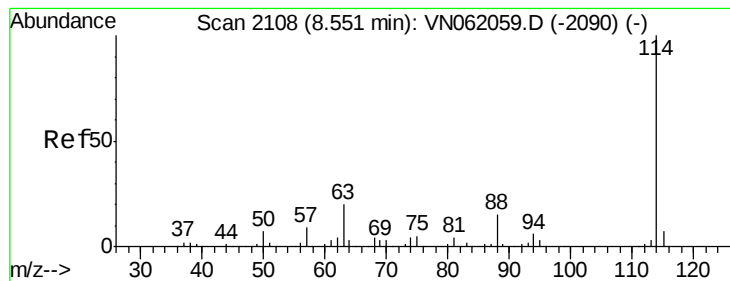
67 52.3 0.0 106.2



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: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

TR-05-062320

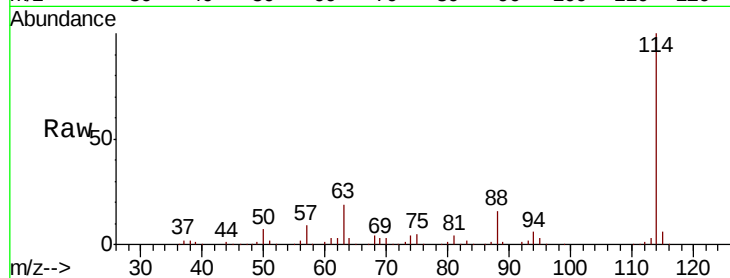
Tot Ion:114 Resp: 400886

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.2

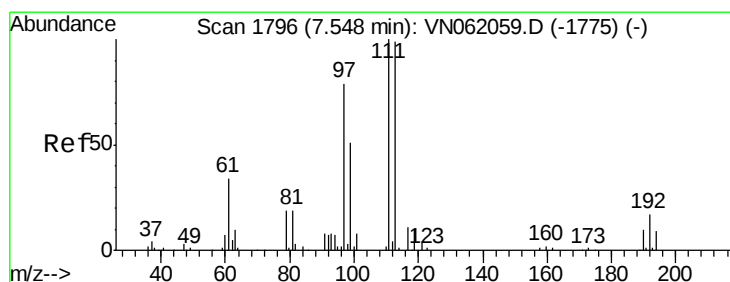
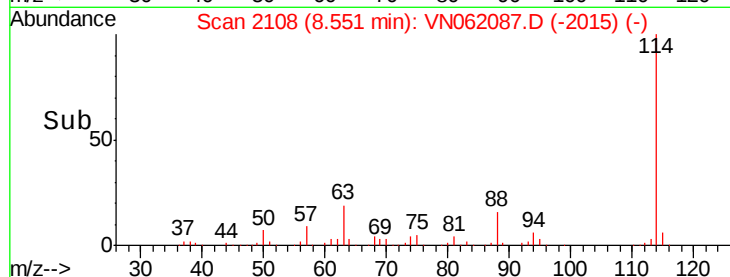
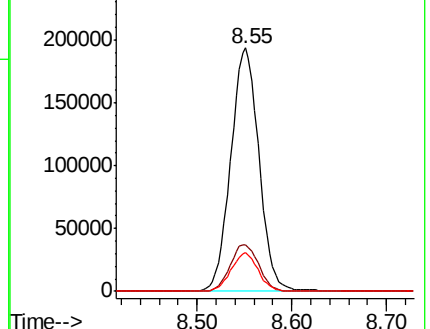
88 15.7 0.0 30.8



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: 49.548 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

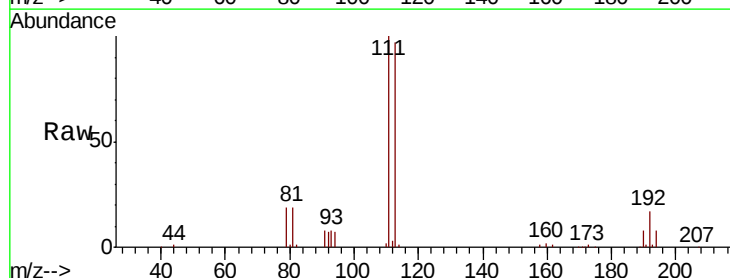
Tgt Ion:113 Resp: 127432

Ion Ratio Lower Upper

113 100

111 104.8 82.2 123.4

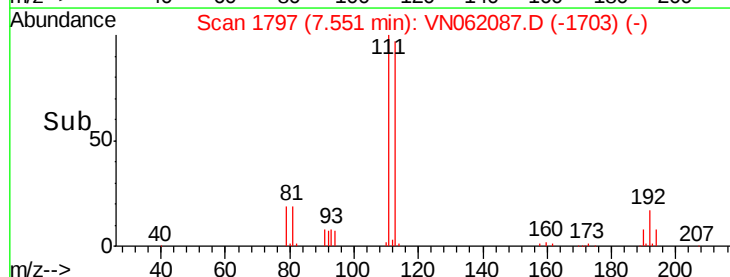
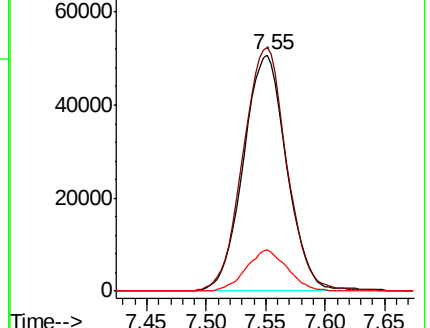
192 16.8 14.0 21.0

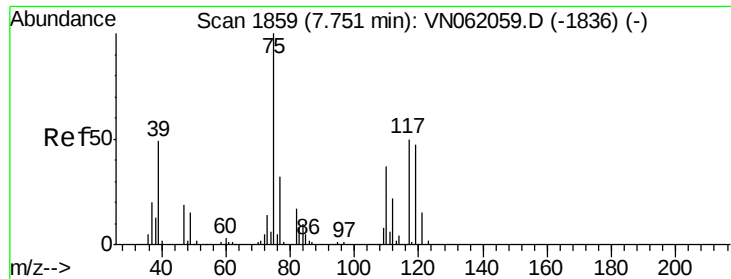


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

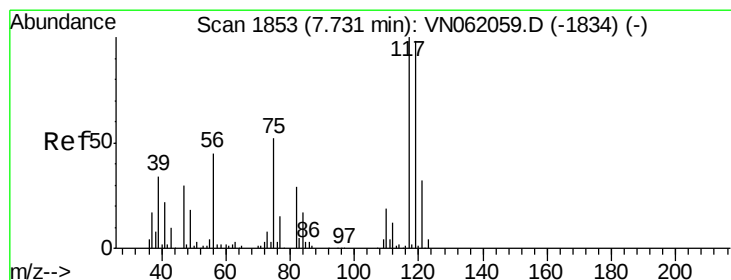
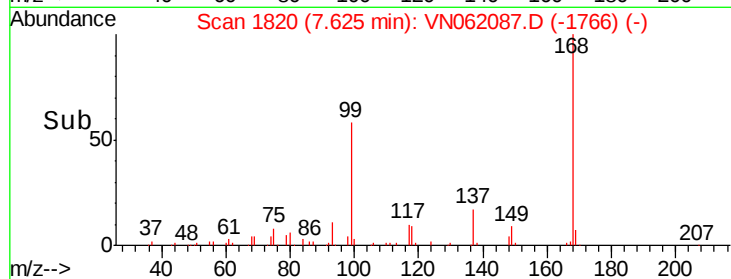
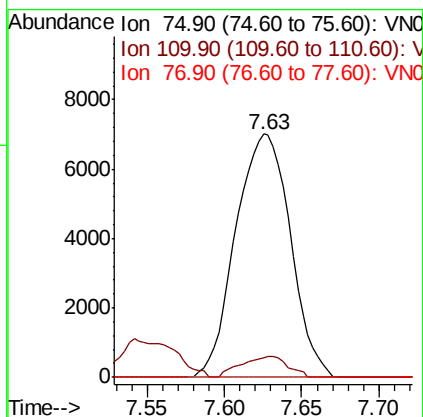
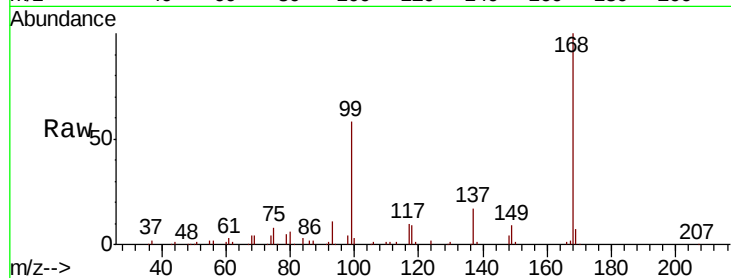




#36
 1,1-Dichloropropene
 Concen: 4.270 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062087.D
 Acq: 25 Jun 2020 1:27

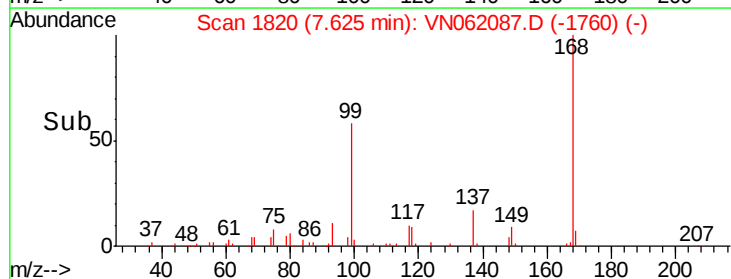
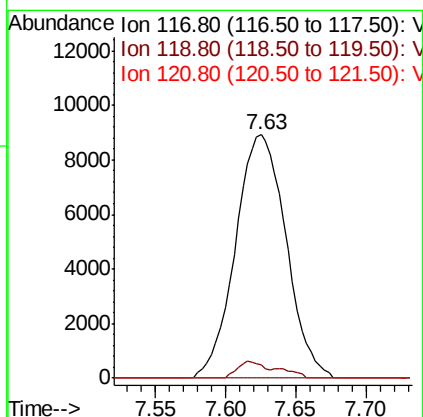
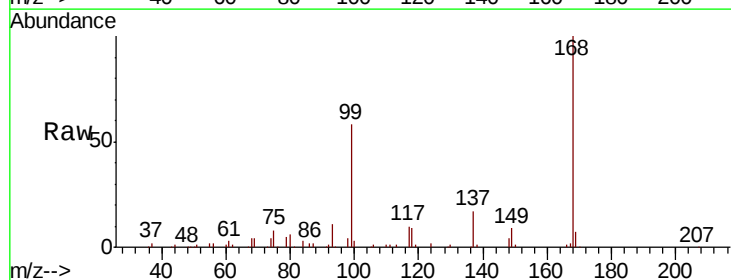
Instrument :
 MSVOA_N
 ClientSampleId :
 TR-05-062320

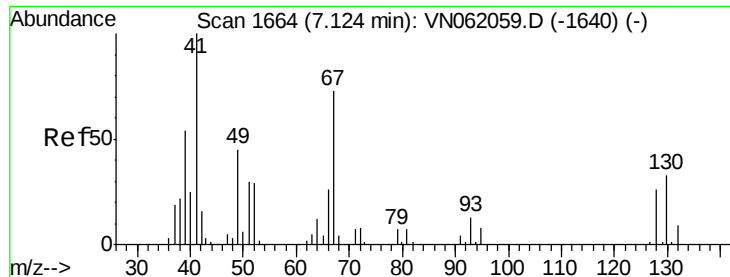
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.3	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.873 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN062087.D
 Acq: 25 Jun 2020 1:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	78.2	117.2#
121	0.0	25.8	38.6#

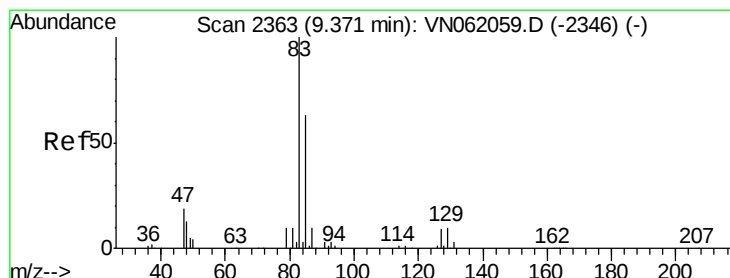
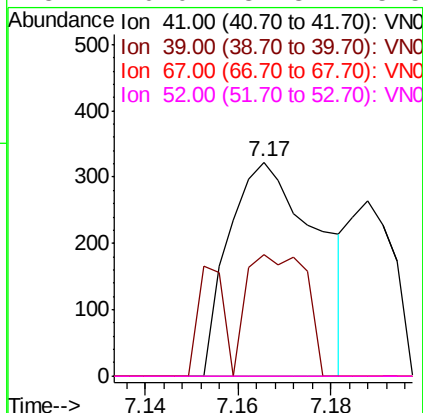
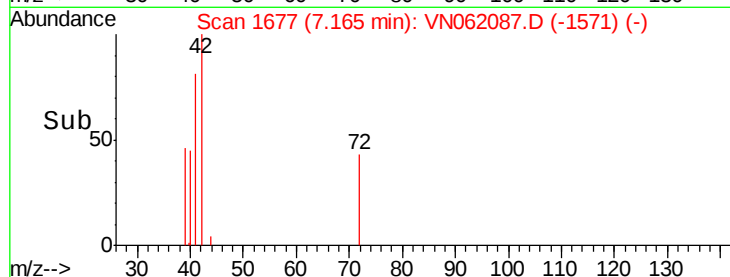
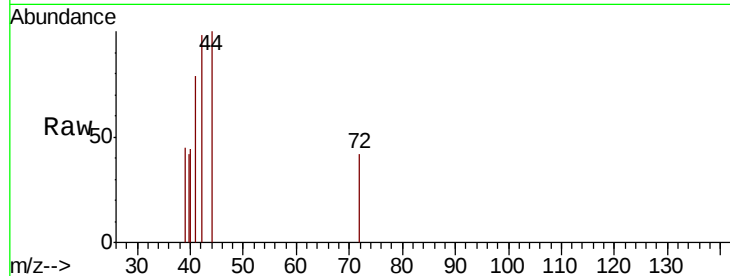




#41
Methacrylonitrile
Concen: 0.277 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.04 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

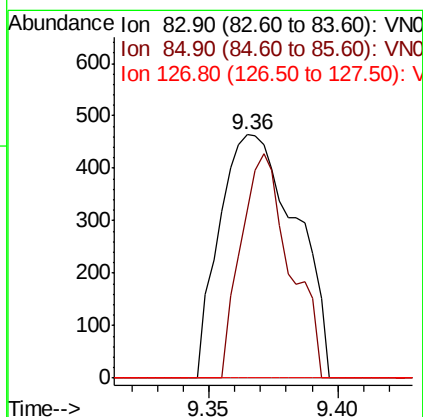
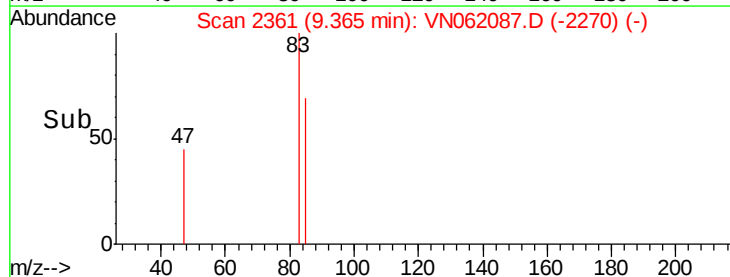
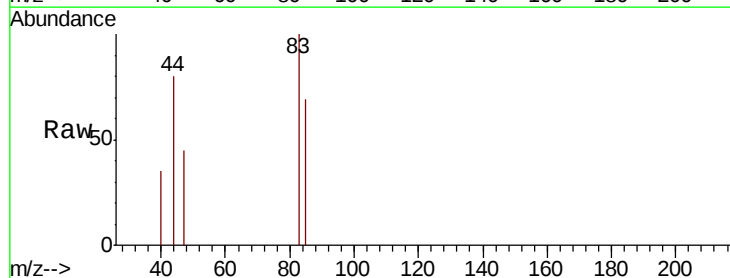
Instrument :
MSVOA_N
ClientSampleID :
TR-05-062320

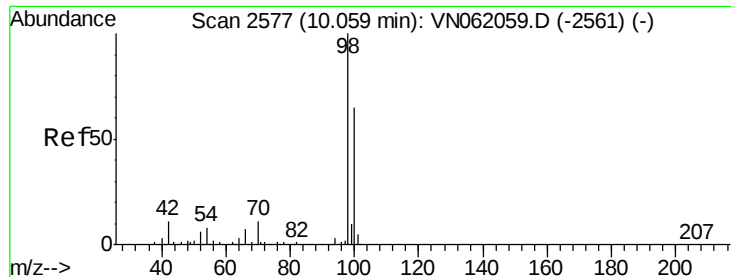
Tot Ion: 41 Resp: 428
Ion Ratio Lower Upper
41 100
39 38.3 44.2 66.2#
67 0.0 79.5 119.3#
52 0.0 32.3 48.5#



#47
Bromodichloromethane
Concen: 0.230 ug/l
RT: 9.36 min Scan# 2361
Delta R.T. -0.01 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

Tgt Ion: 83 Resp: 955
Ion Ratio Lower Upper
83 100
85 69.2 50.3 75.5
127 0.0 6.9 10.3#





#50

Toluene-d8

Concen: 49.294 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

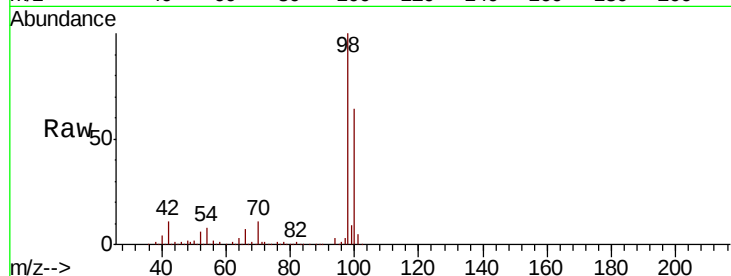
TR-05-062320

Tot Ion: 98 Resp: 506776

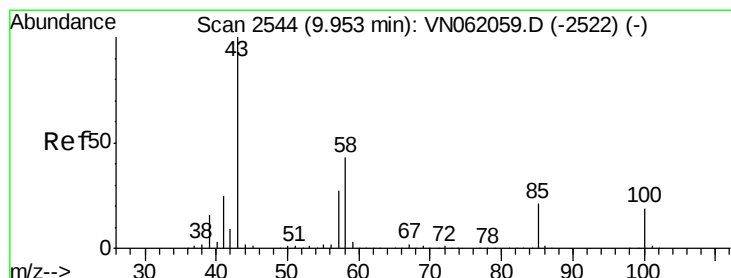
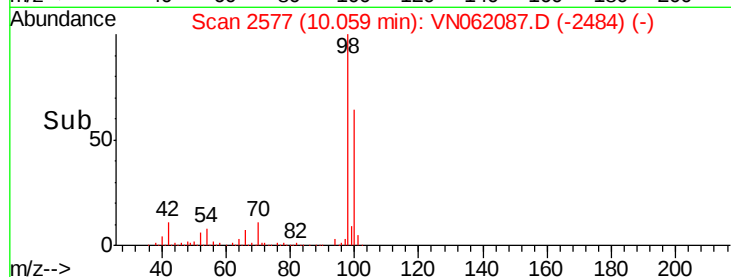
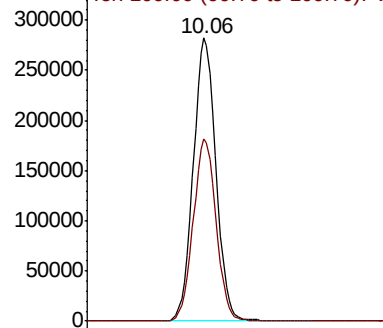
Ion Ratio Lower Upper

98 100

100 64.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062059.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.996 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062087.D

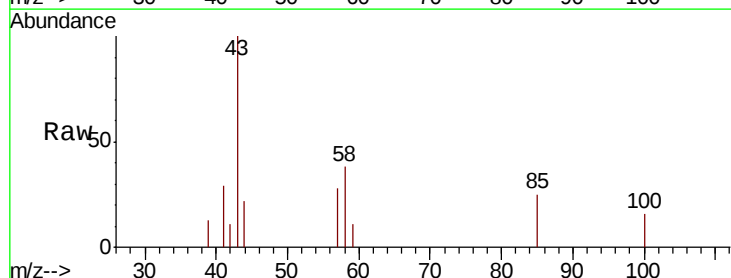
Acq: 25 Jun 2020 1:27

Tgt Ion: 43 Resp: 3165

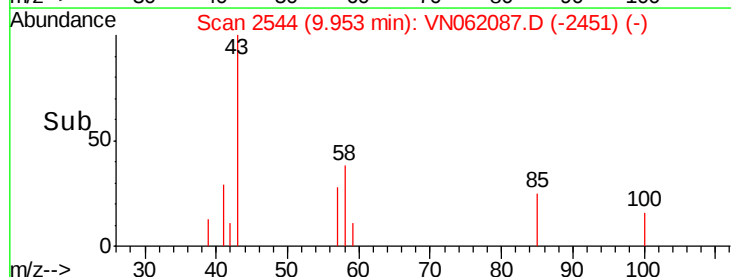
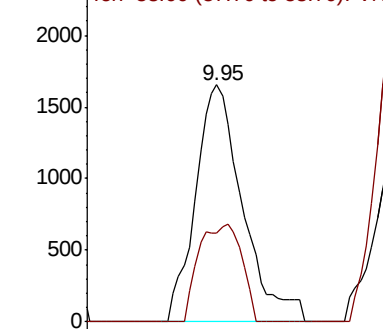
Ion Ratio Lower Upper

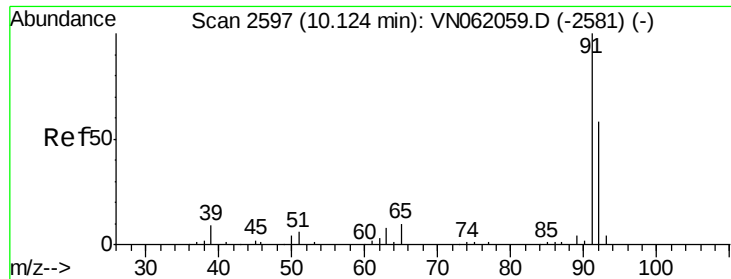
43 100

58 37.5 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)





#52

Toluene

Concen: 0.811 ug/l

RT: 10.13 min Scan# 2599

Delta R.T. 0.01 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

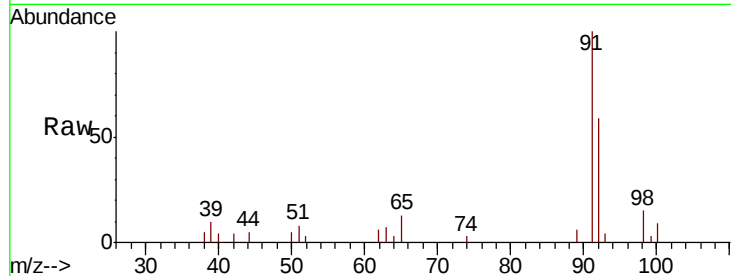
TR-05-062320

Tot Ion: 92 Resp: 6078

Ion Ratio Lower Upper

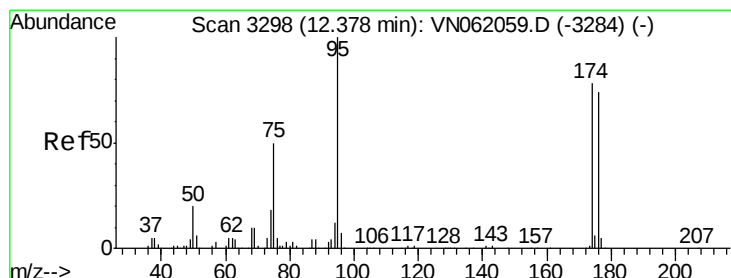
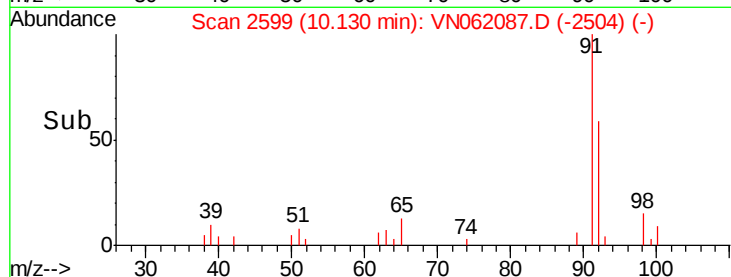
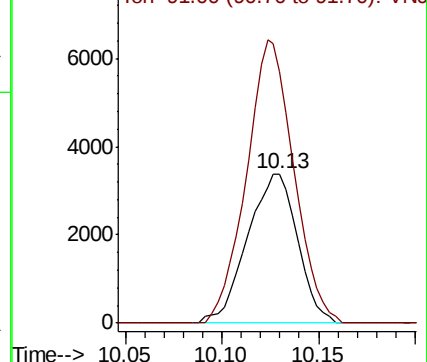
92 100

91 179.5 137.4 206.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 47.081 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

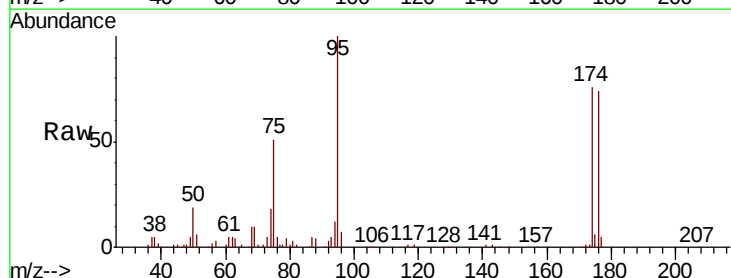
Tgt Ion: 95 Resp: 163532

Ion Ratio Lower Upper

95 100

174 76.8 0.0 154.8

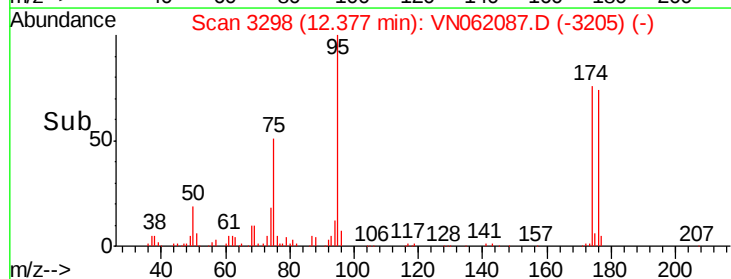
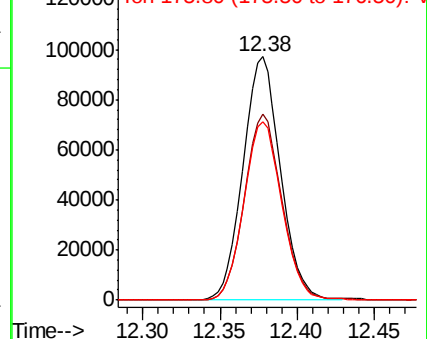
176 74.6 0.0 147.4

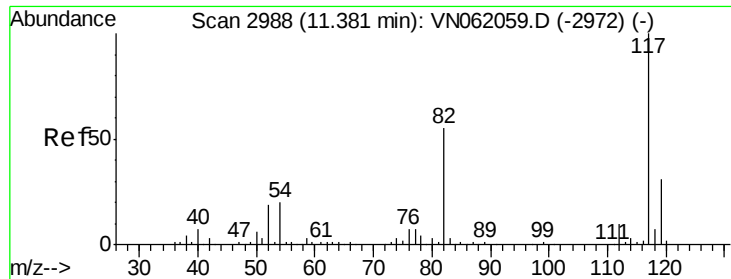


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

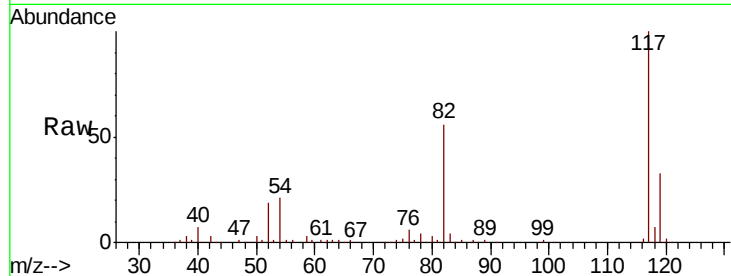




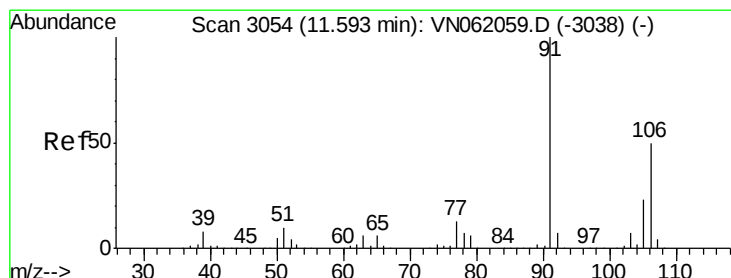
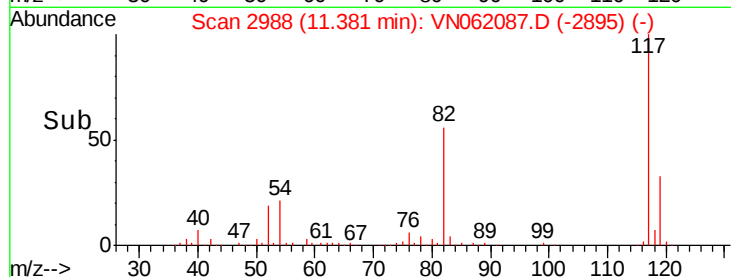
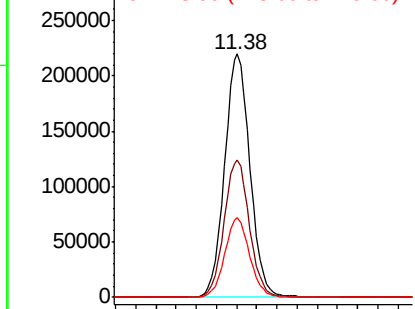
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

Instrument :
MSVOA_N
ClientSampled :
TR-05-062320

Tot Ion:117 Resp: 385294
Ion Ratio Lower Upper
117 100
82 56.4 43.8 65.8
119 32.6 25.2 37.8

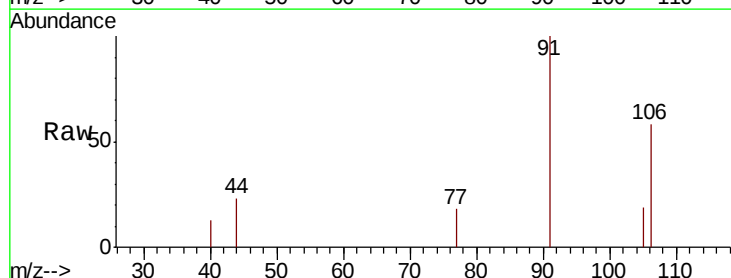


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

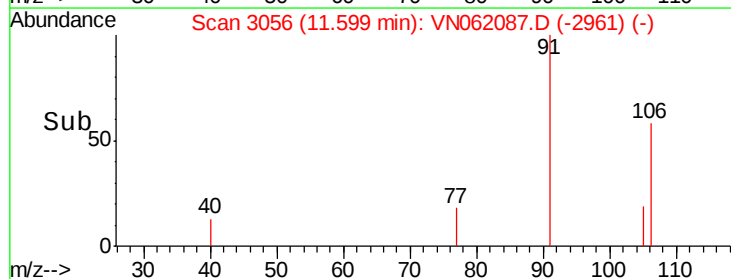
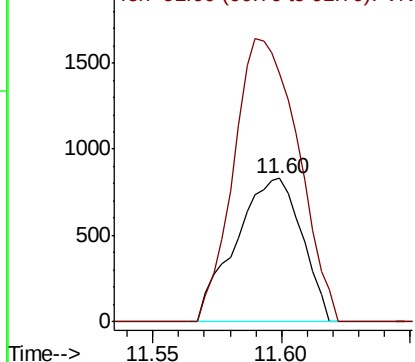


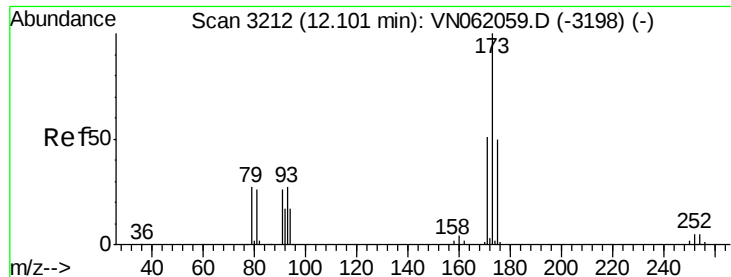
#68
m/p-Xylenes
Concen: 0.268 ug/l
RT: 11.60 min Scan# 3056
Delta R.T. 0.01 min
Lab File: VN062087.D
Acq: 25 Jun 2020 1:27

Tgt Ion:106 Resp: 1483
Ion Ratio Lower Upper
106 100
91 192.1 157.8 236.8



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.665 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

TR-05-062320

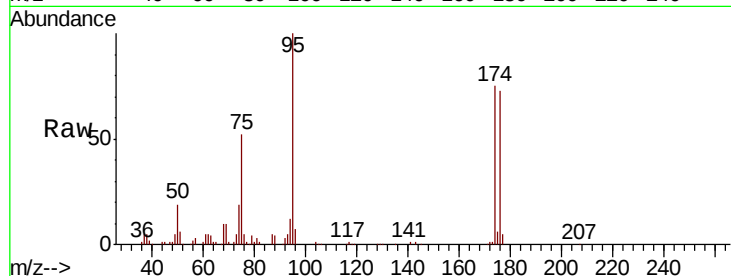
Tot Ion:173 Resp: 1384

Ion Ratio Lower Upper

173 100

175 565.4 24.7 74.1#

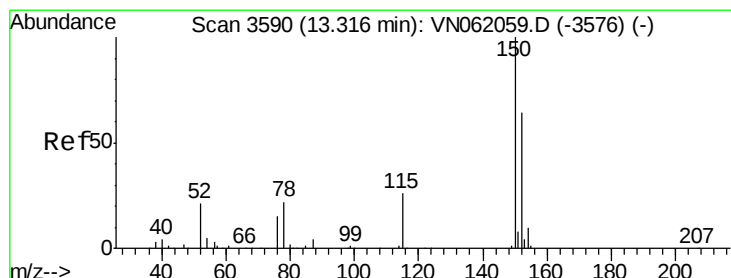
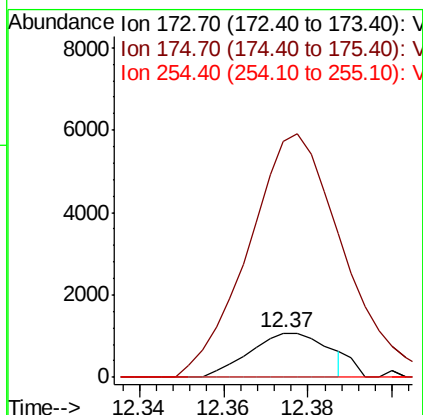
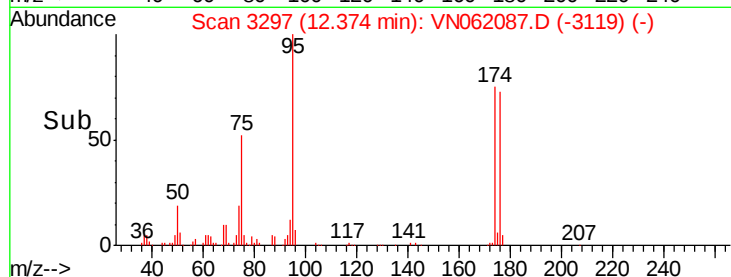
254 0.0 0.0 0.0



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: VN062087.D

Acq: 25 Jun 2020 1:27

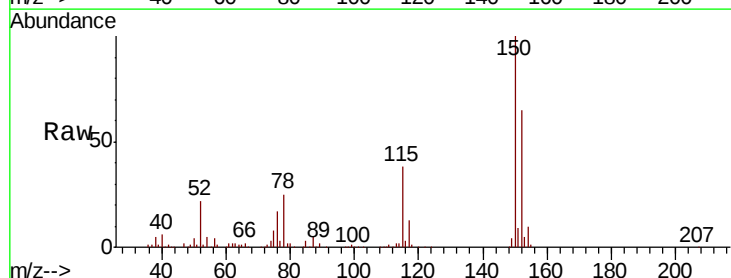
Tgt Ion:152 Resp: 143638

Ion Ratio Lower Upper

152 100

115 59.5 29.5 88.5

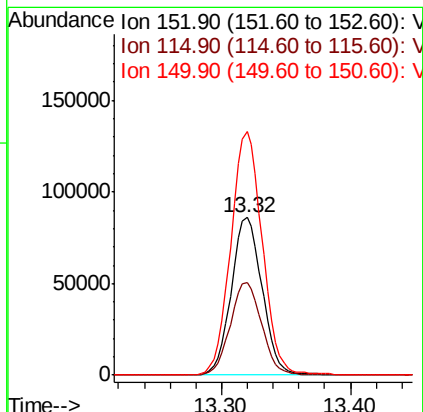
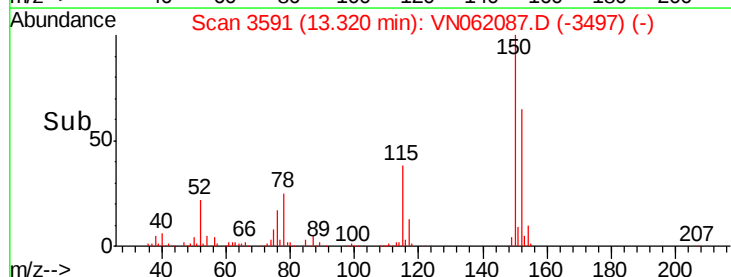
150 157.1 0.0 351.4

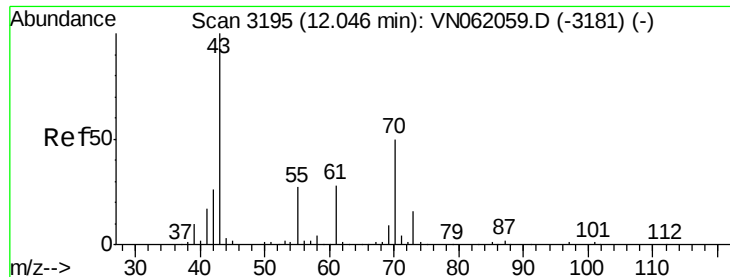


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.358 ug/l

RT: 12.05 min Scan# 3197

Delta R.T. 0.01 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

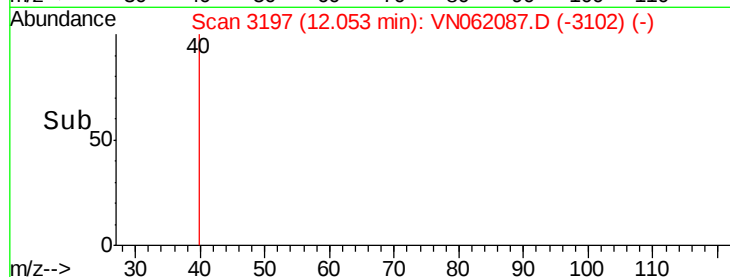
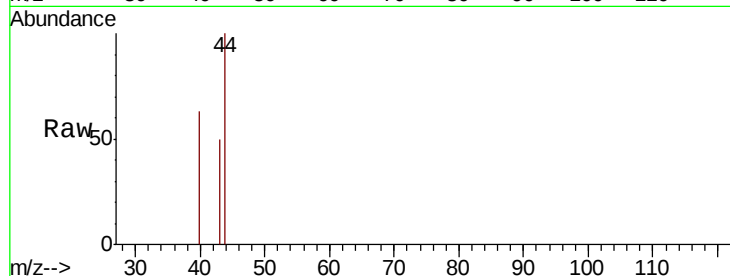
MSVOA_N

ClientSampleId :

TR-05-062320

Tot Ion: 43 Resp: 65

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#

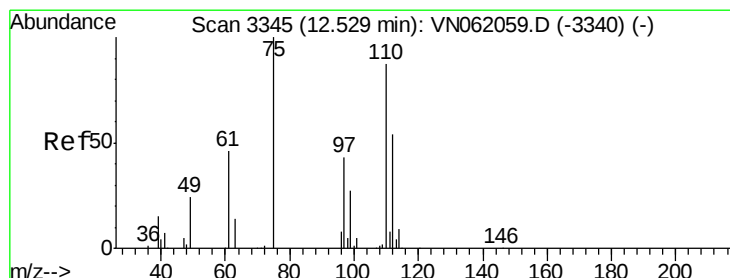
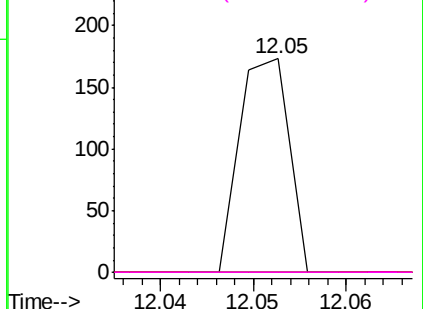


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.935 ug/l

RT: 12.38 min Scan# 3298

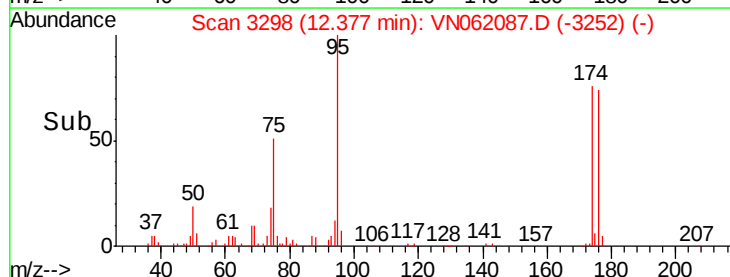
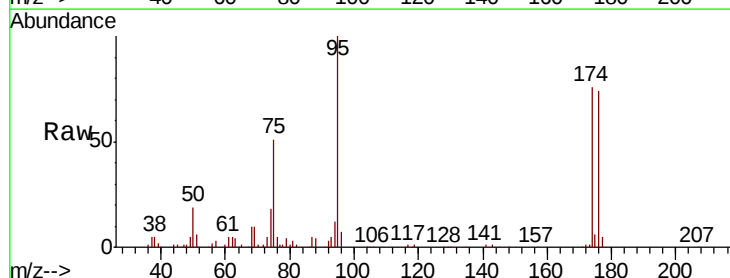
Delta R.T. -0.15 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

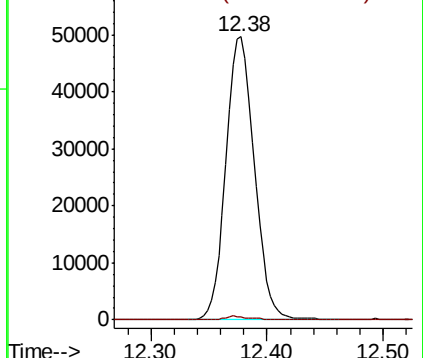
Tgt Ion: 75 Resp: 84315

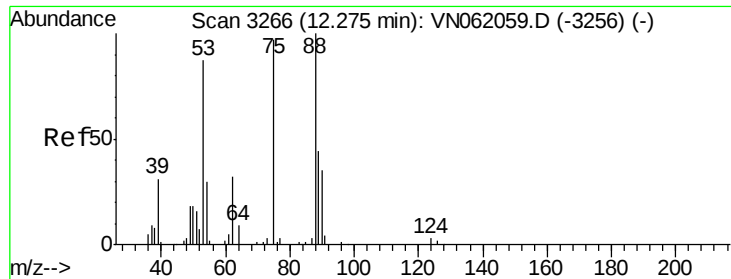
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



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: 72.820 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062087.D

Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

TR-05-062320

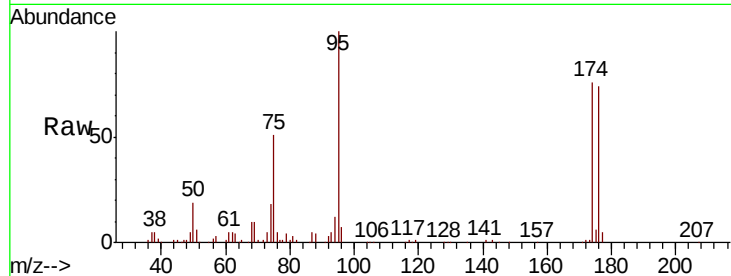
Tot Ion: 75 Resp: 84315

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

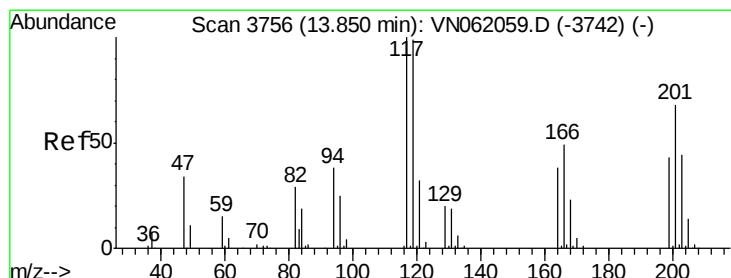
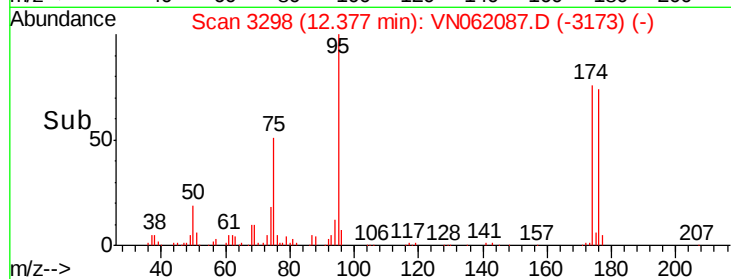
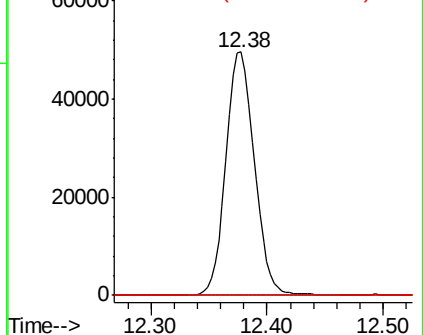
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062059.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062059.D (-3256) (-)



#90

Hexachloroethane

Concen: 0.216 ug/l

RT: 13.97 min Scan# 3794

Delta R.T. 0.12 min

Lab File: VN062087.D

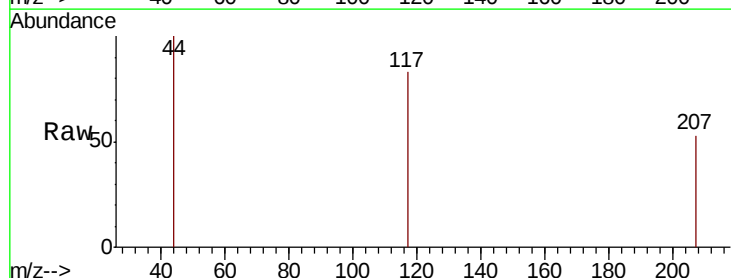
Acq: 25 Jun 2020 1:27

Tgt Ion: 117 Resp: 378

Ion Ratio Lower Upper

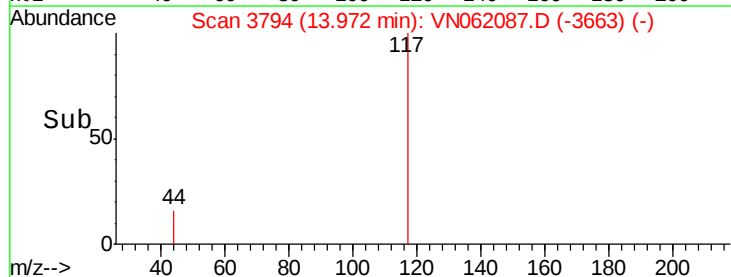
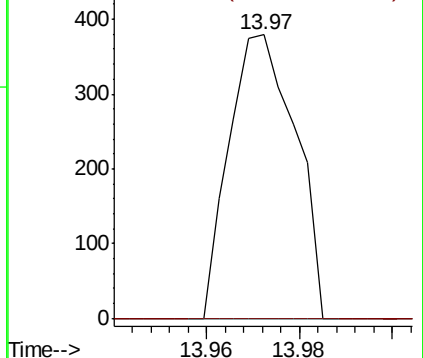
117 100

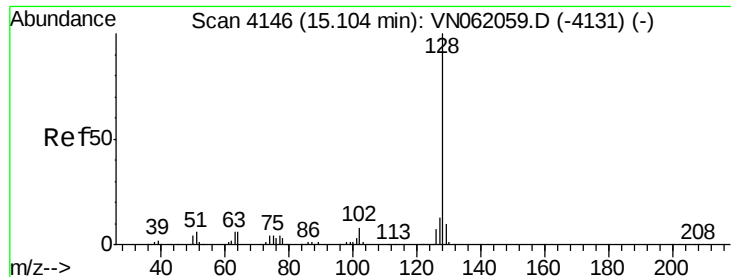
201 0.0 32.7 98.1#



Abundance Ion 116.80 (116.50 to 117.50): VN062059.D (-3742) (-)

Ion 200.70 (200.40 to 201.40): VN062059.D (-3742) (-)





#95

Naphthalene

Concen: 4.223 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062087.D

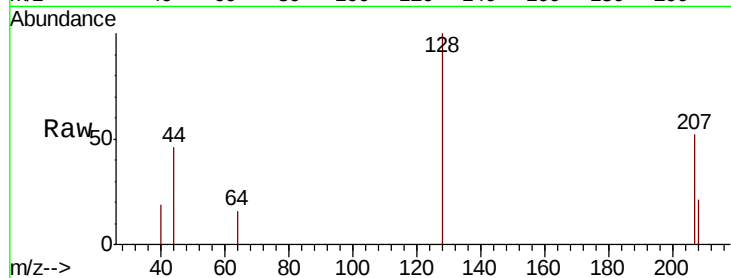
Acq: 25 Jun 2020 1:27

Instrument :

MSVOA_N

ClientSampleId :

TR-05-062320



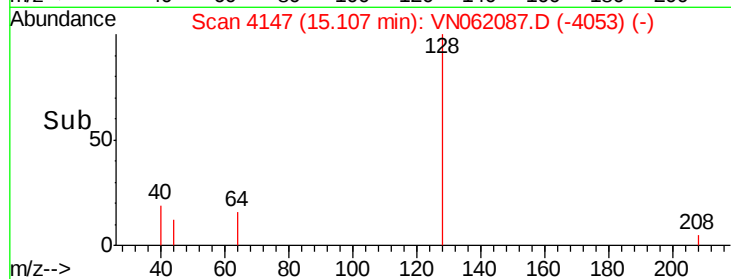
Tot Ion:128 Resp: 1696

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

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

