

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063063.D
 Acq On : 21 Aug 2020 3:17
 Operator : JC/MD
 Sample : L3698-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0207

Quant Time: Aug 21 06:42:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	146279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	238819	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	247770	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	94739	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	95971	55.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.72%	
35) Dibromofluoromethane	7.55	113	84152	54.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.16%	
50) Toluene-d8	10.06	98	307926	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
62) 4-Bromofluorobenzene	12.38	95	105675	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	

Target Compounds

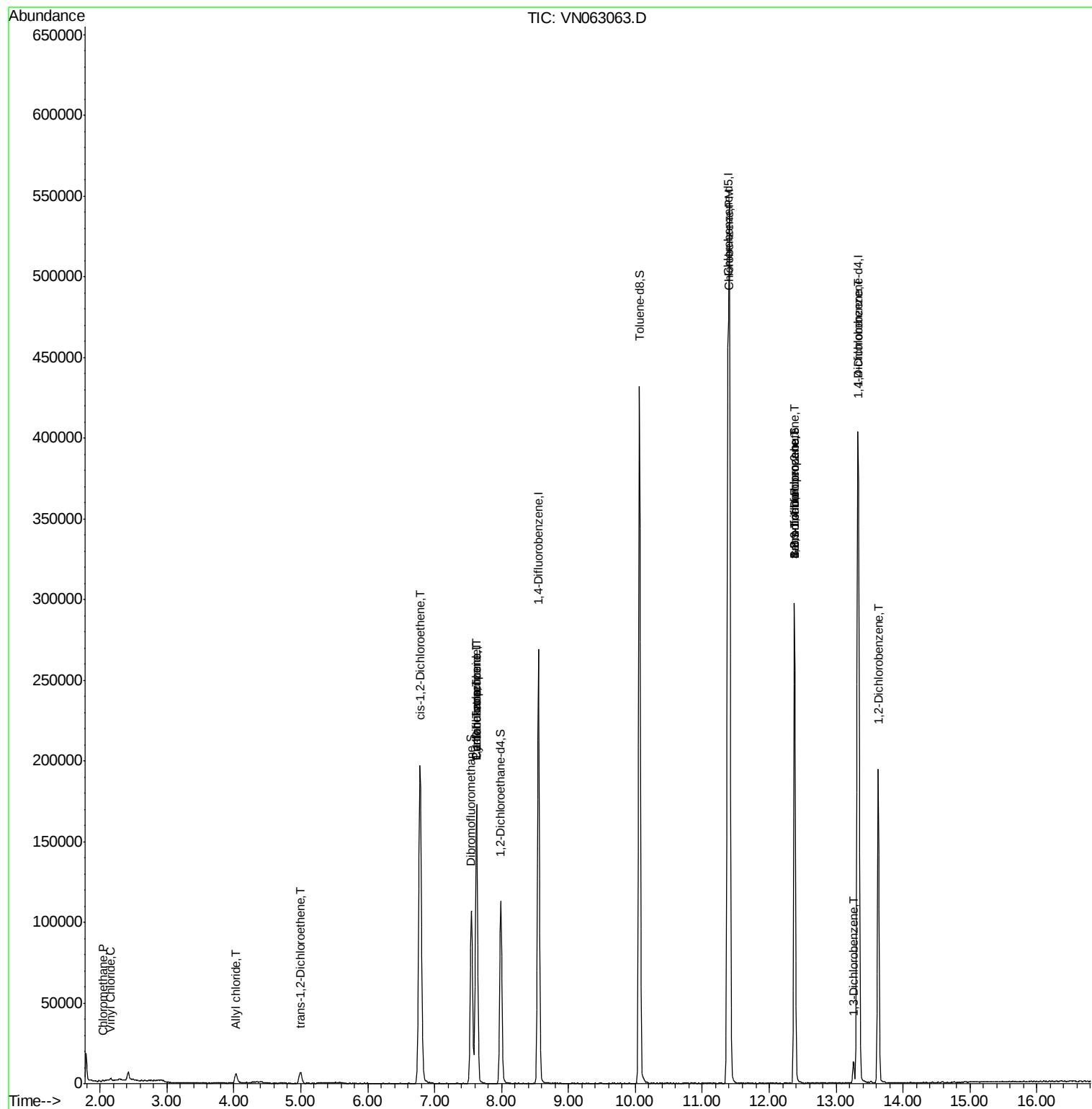
					Qvalue	
3) Chloromethane	2.03	50	499	0.249	ug/l	95
4) Vinyl Chloride	2.16	62	1002	0.517	ug/l	99
14) Allyl chloride	4.03	41	972	0.444	ug/l #	64
16) Acetone	3.79	43	632	Below Cal	#	40
20) Methylene Chloride	4.52	84	64	Below Cal	#	6
21) trans-1,2-Dichloroethene	4.99	96	5045	3.882	ug/l	92
27) cis-1,2-Dichloroethene	6.78	96	136703	83.934	ug/l	90
31) Cyclohexane	7.63	56	2925	1.145	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	10626	5.049	ug/l #	49
38) Carbon Tetrachloride	7.63	117	13336	6.276	ug/l #	17
65) Chlorobenzene	11.41	112	283751	57.022	ug/l	100
71) Bromoform	12.38	173	1040	0.675	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	50025	27.165	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50025	74.608	ug/l #	15
87) 1,3-Dichlorobenzene	13.26	146	6927	2.259	ug/l	97
88) 1,4-Dichlorobenzene	13.34	146	121188	38.937	ug/l	99
91) 1,2-Dichlorobenzene	13.63	146	90594	30.584	ug/l	99

(#) = 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: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

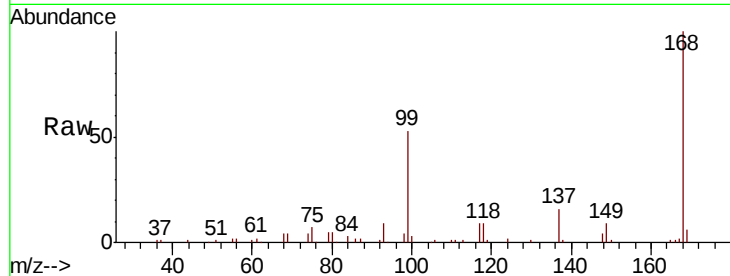
S39-0207

Tot Ion:168 Resp: 146279

Ion Ratio Lower Upper

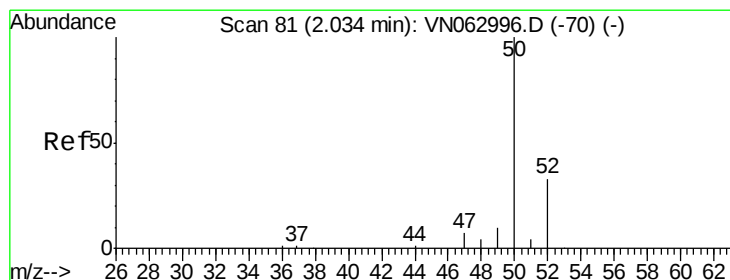
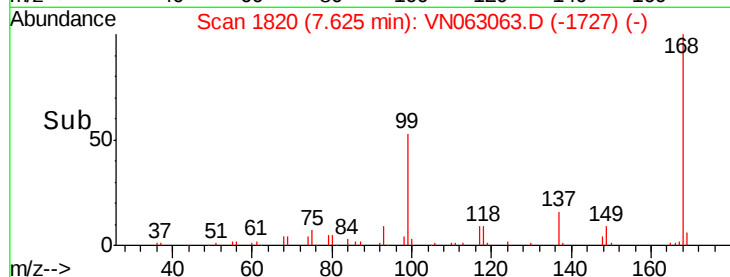
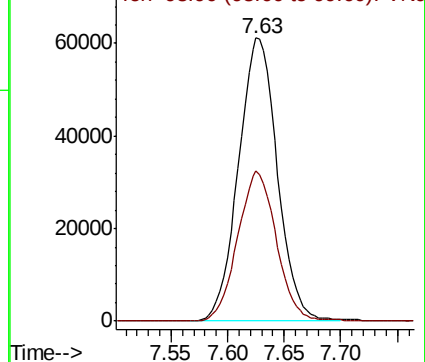
168 100

99 53.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.249 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN063063.D

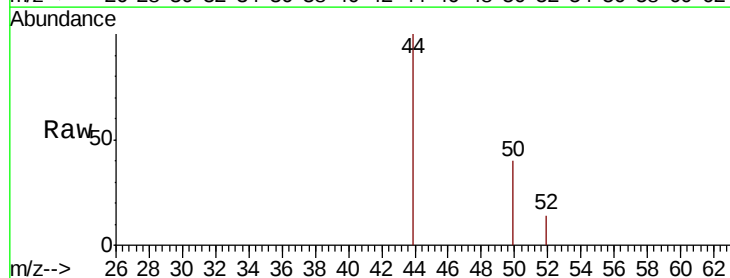
Acq: 21 Aug 2020 3:17

Tgt Ion: 50 Resp: 499

Ion Ratio Lower Upper

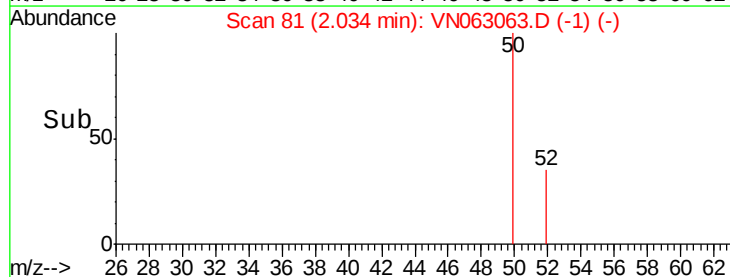
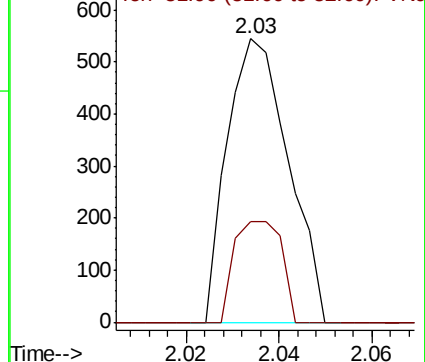
50 100

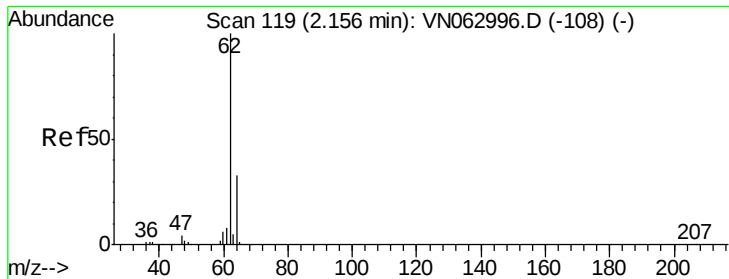
52 35.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#4

Vinyl Chloride

Concen: 0.517 ug/l

RT: 2.16 min Scan# 120

Delta R.T. 0.00 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

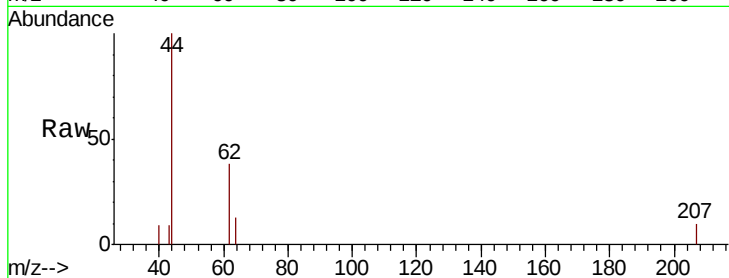
S39-0207

Tot Ion: 62 Resp: 1002

Ion Ratio Lower Upper

62 100

64 33.3 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.16

800

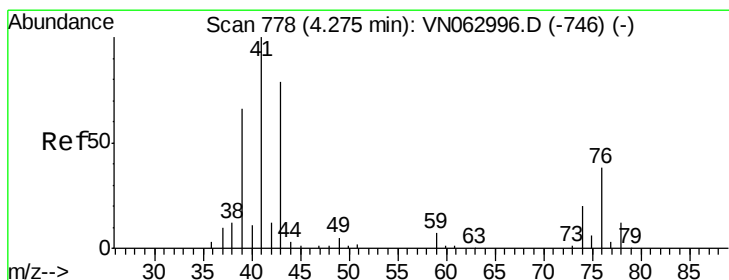
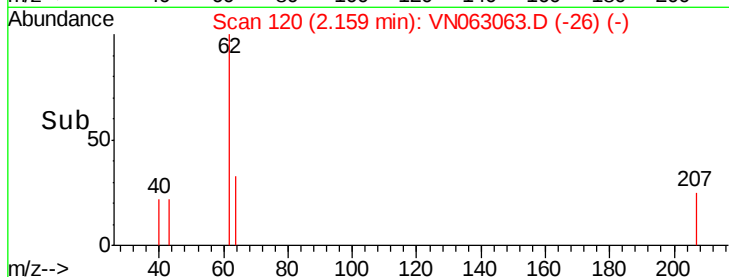
600

400

200

0

Time-->



#14

Allyl chloride

Concen: 0.444 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.24 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

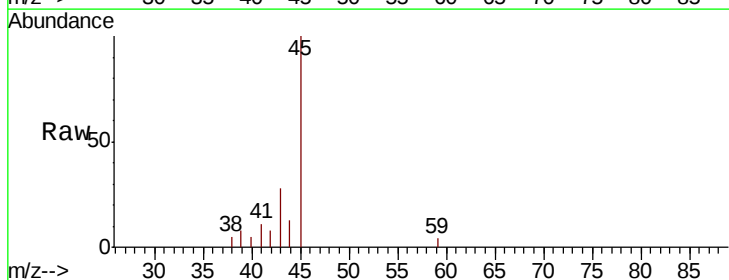
Tgt Ion: 41 Resp: 972

Ion Ratio Lower Upper

41 100

39 42.8 47.9 71.9#

76 0.0 27.0 40.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

4.03

500

400

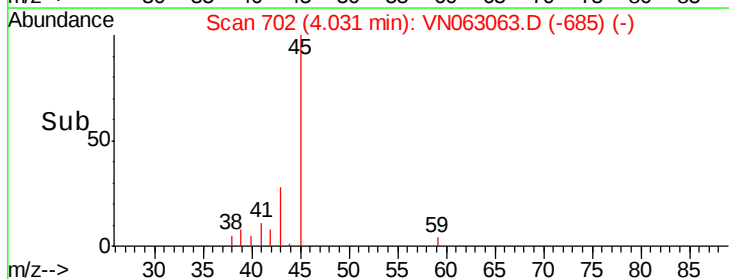
300

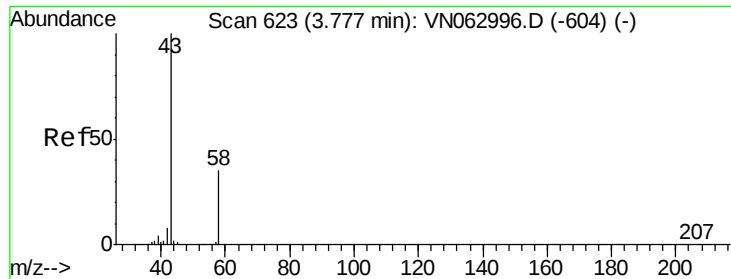
200

100

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

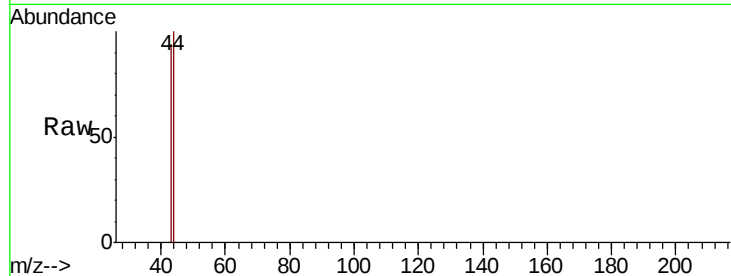
S39-0207

Tot Ion: 43 Resp: 632

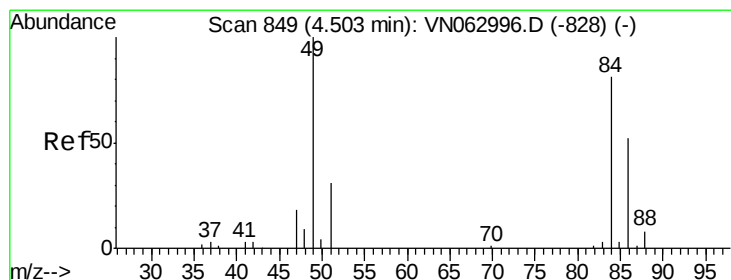
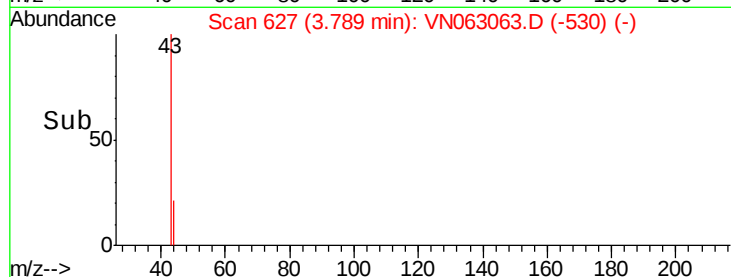
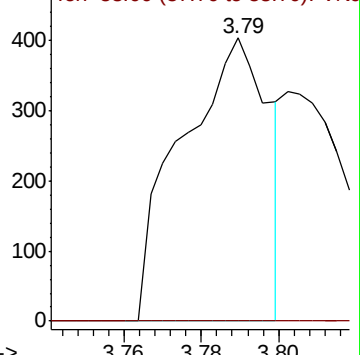
Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-604) (-)



#20

Methylene Chloride

Concen: Below Cal

RT: 4.52 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Tgt Ion: 84 Resp: 64

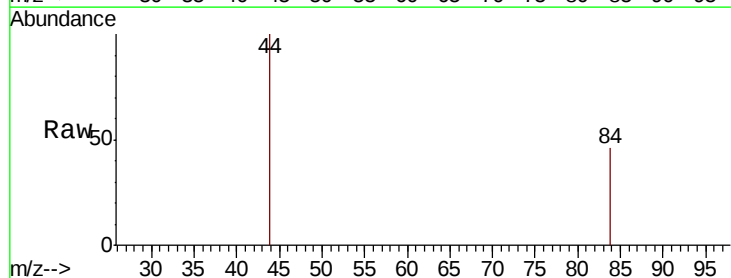
Ion Ratio Lower Upper

84 100

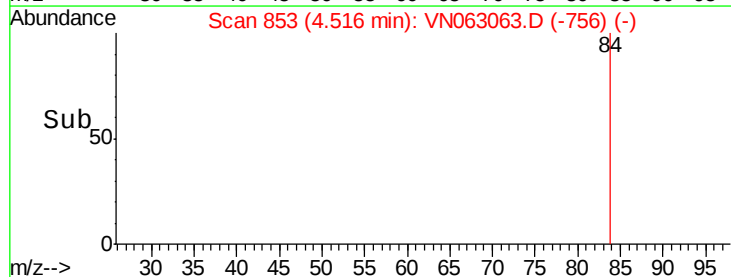
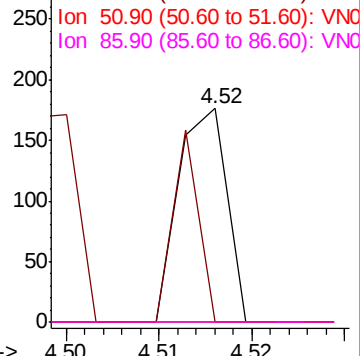
49 0.0 98.7 148.1#

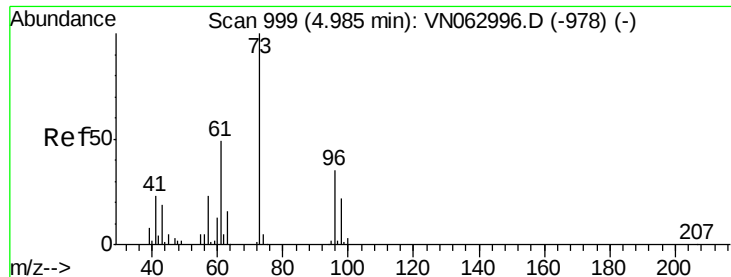
51 0.0 30.8 46.2#

86 0.0 51.2 76.8#



Abundance Ion 83.90 (83.60 to 84.60): VN062996.D (-828) (-)





#21

trans-1,2-Dichloroethene

Concen: 3.882 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

S39-0207

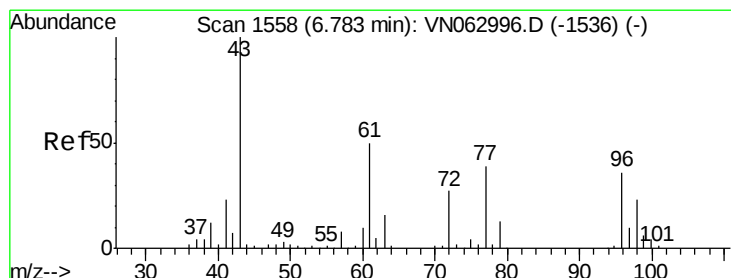
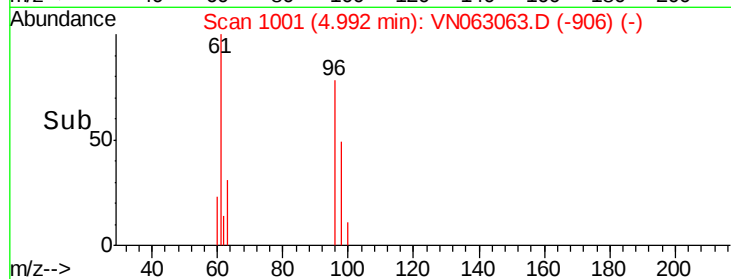
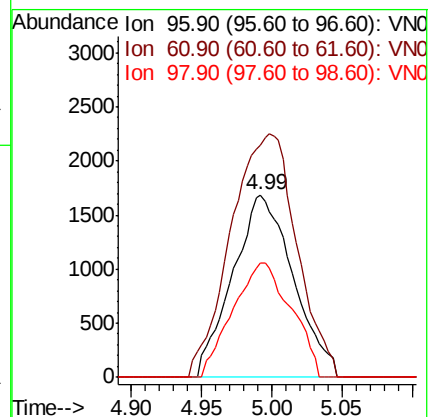
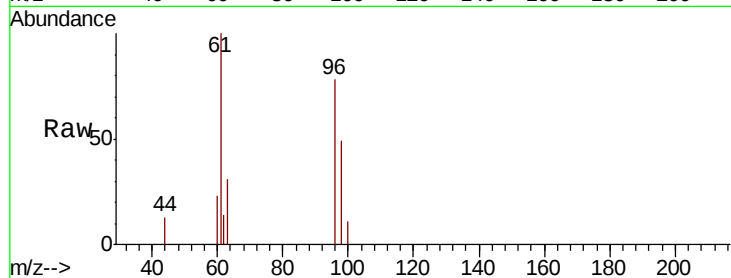
Tot Ion: 96 Resp: 5045

Ion Ratio Lower Upper

96 100

61 127.6 112.5 168.7

98 62.5 49.4 74.0



#27

cis-1,2-Dichloroethene

Concen: 83.934 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

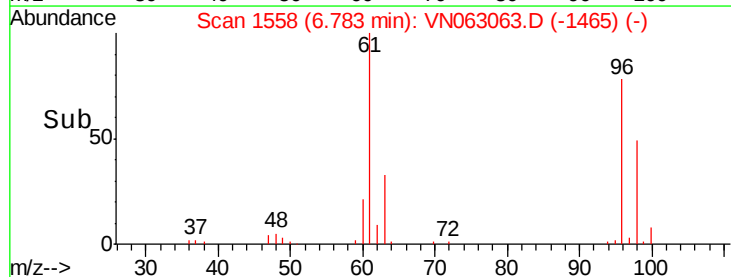
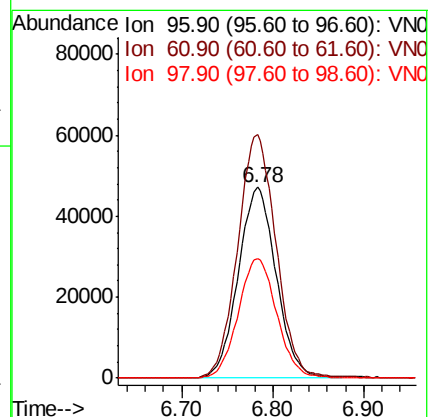
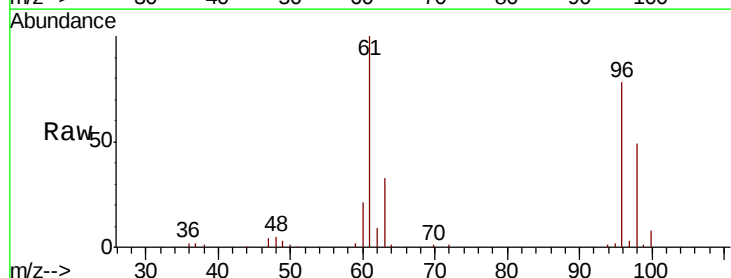
Tgt Ion: 96 Resp: 136703

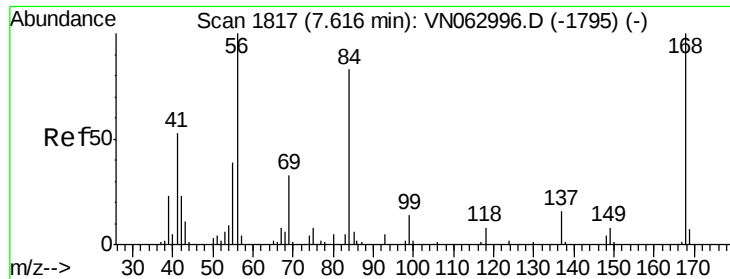
Ion Ratio Lower Upper

96 100

61 129.0 0.0 292.8

98 63.9 0.0 130.6

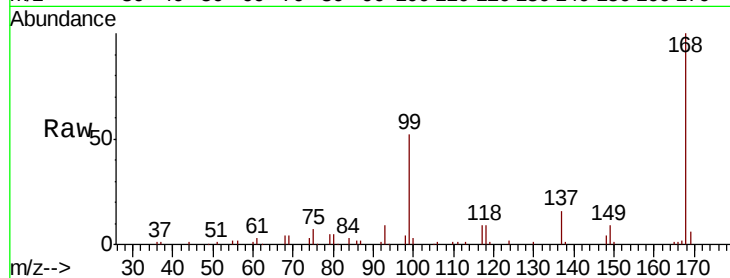




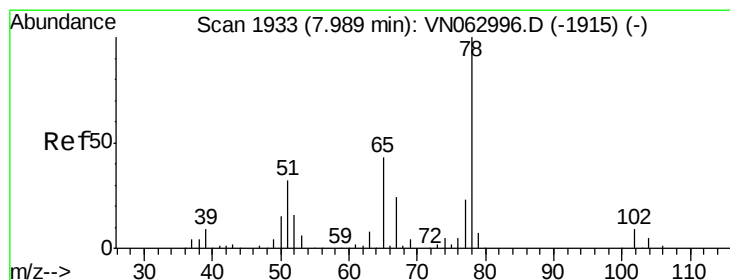
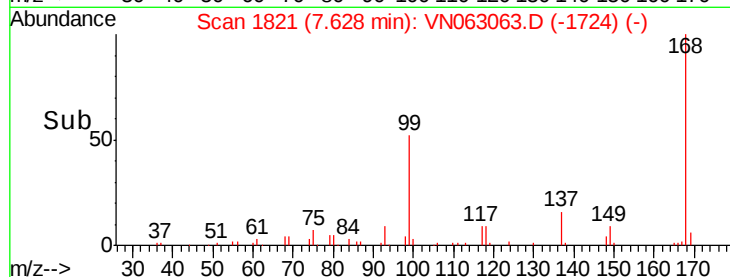
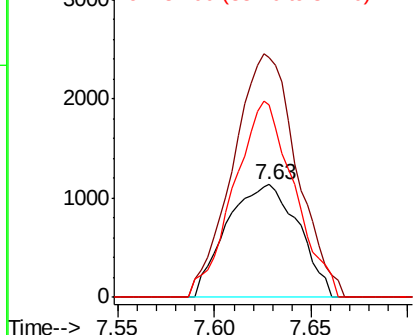
#31
Cyclohexane
Concen: 1.145 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.01 min
Lab File: VN063063.D
Acq: 21 Aug 2020 3:17

Instrument :
MSVOA_N
ClientSampled :
S39-0207

Tot Ion: 56 Resp: 2925
Ion Ratio Lower Upper
56 100
69 212.7 26.6 40.0#
84 170.4 66.4 99.6#

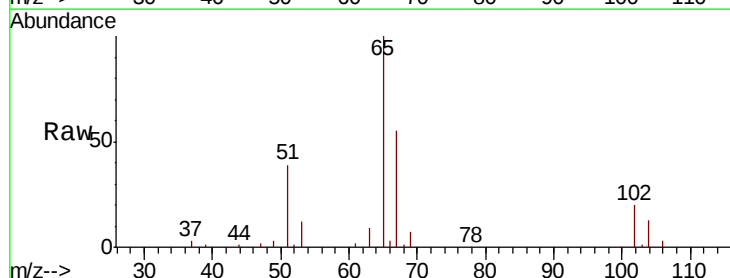


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

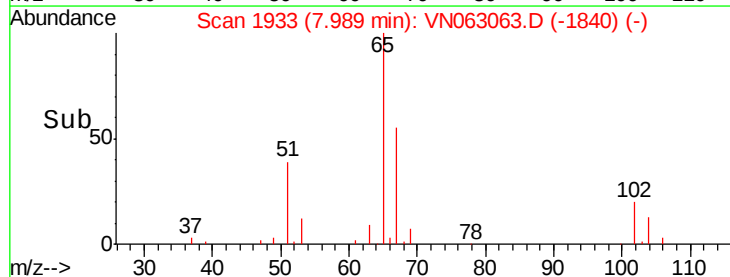
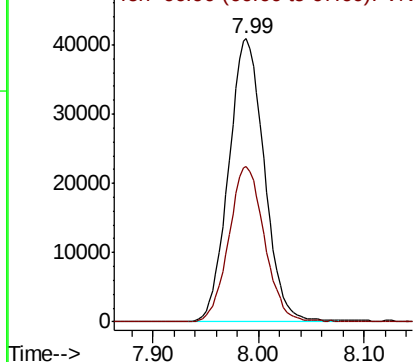


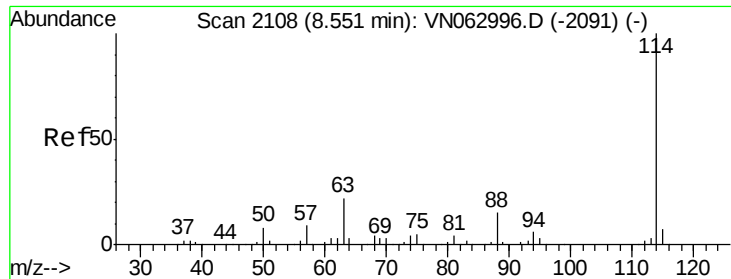
#33
1,2-Dichloroethane-d4
Concen: 55.357 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN063063.D
Acq: 21 Aug 2020 3:17

Tgt Ion: 65 Resp: 95971
Ion Ratio Lower Upper
65 100
67 54.8 0.0 112.0



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

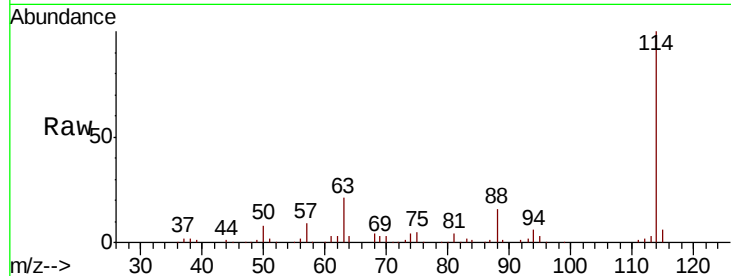




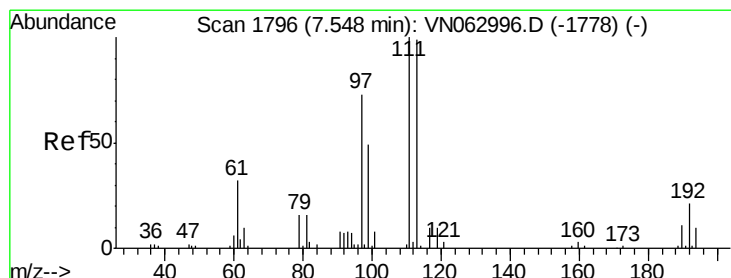
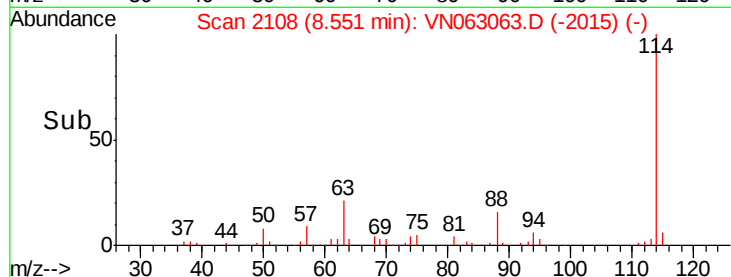
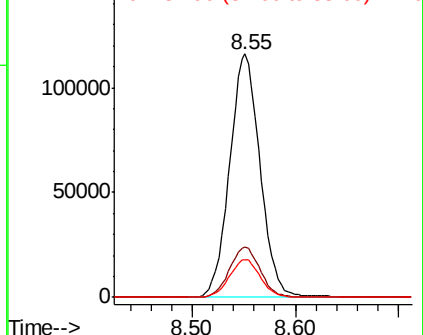
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0207

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.2
88	15.7	0.0	30.6

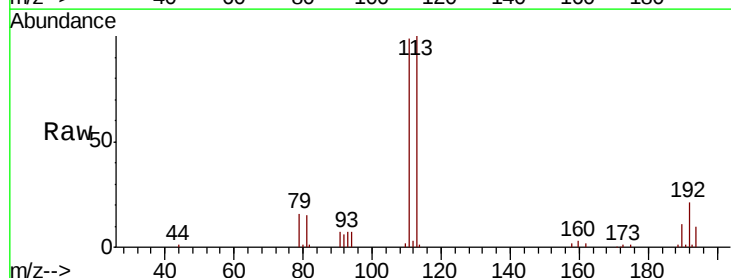


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

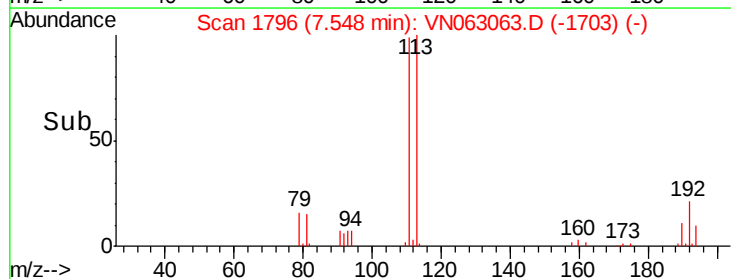
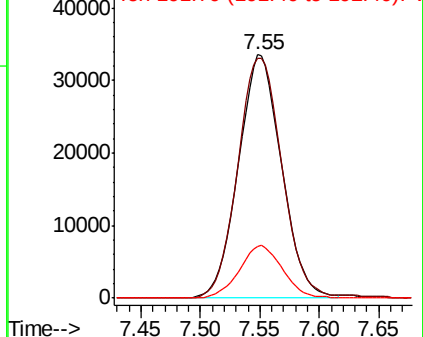


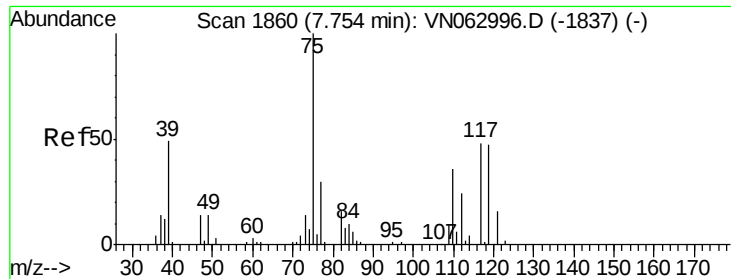
#35
 Dibromofluoromethane
 Concen: 54.078 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.7	122.5
192	21.5	17.5	26.3



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

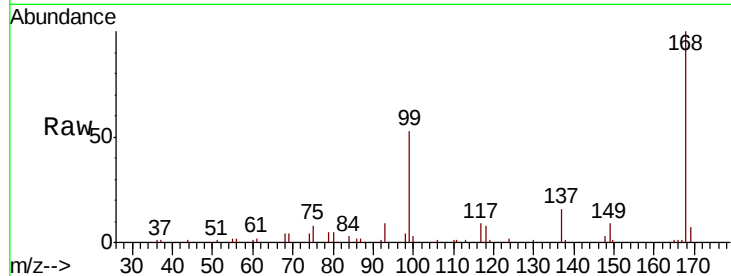




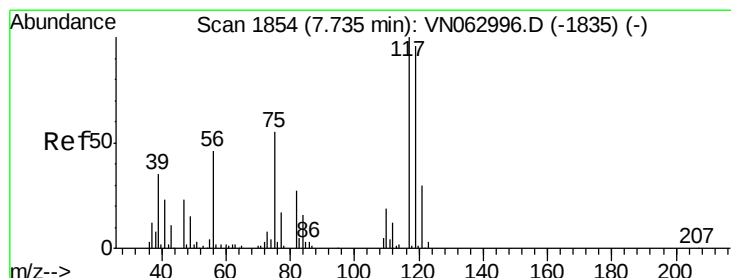
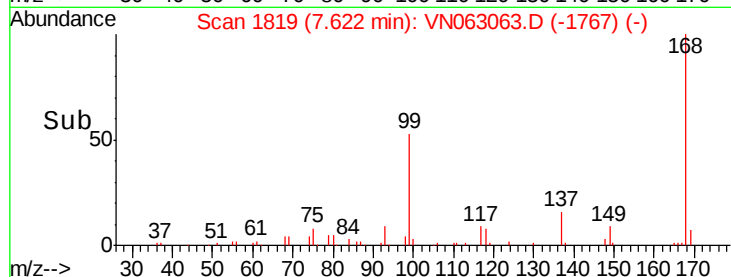
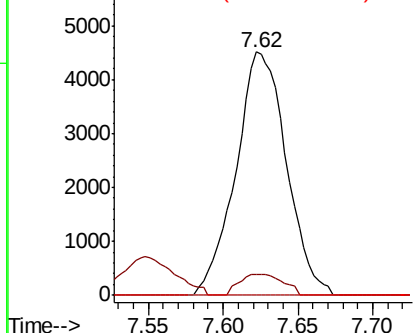
#36
 1,1-Dichloropropene
 Concen: 5.049 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0207

Tot Ion: 75 Resp: 10626
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.5 52.6#
 77 0.0 24.2 36.4#

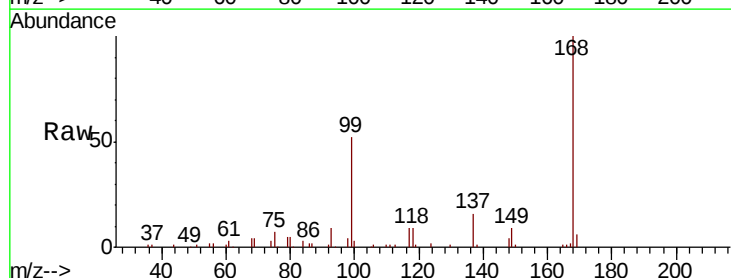


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

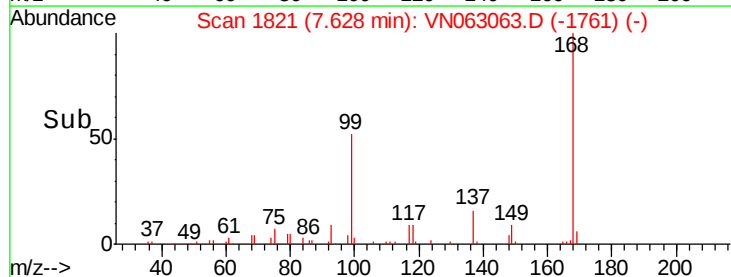
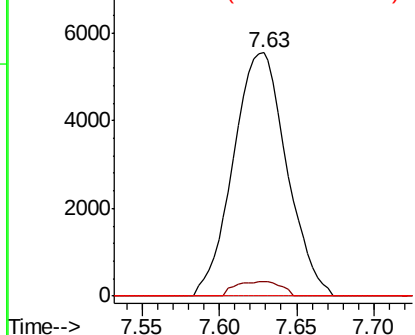


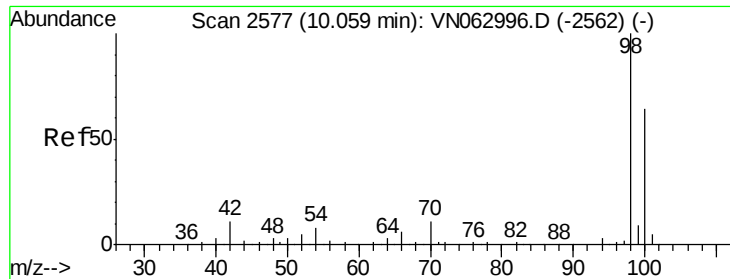
#38
 Carbon Tetrachloride
 Concen: 6.276 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

Tgt Ion: 117 Resp: 13336
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.2 114.4#
 121 0.0 24.2 36.2#



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





#50

Toluene-d8

Concen: 51.517 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

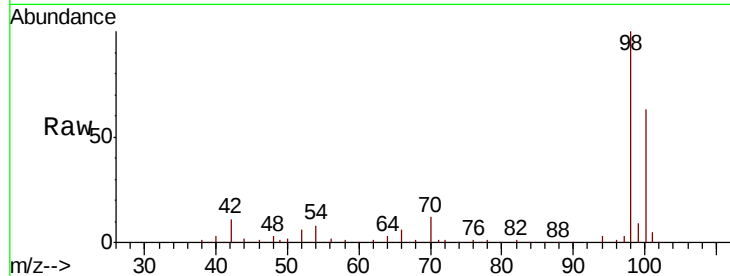
S39-0207

Tot Ion: 98 Resp: 307926

Ion Ratio Lower Upper

98 100

100 62.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

200000

150000

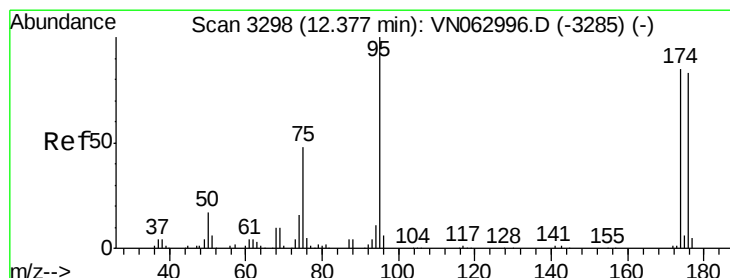
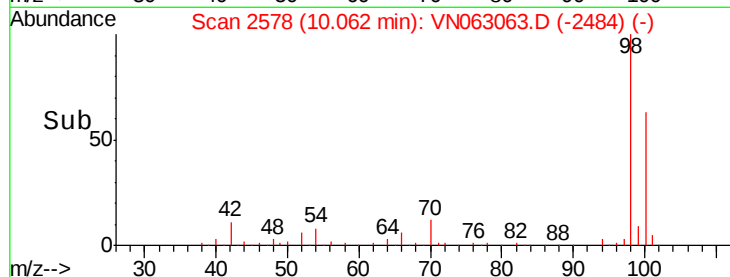
100000

50000

0

10.00 10.10 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 50.101 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

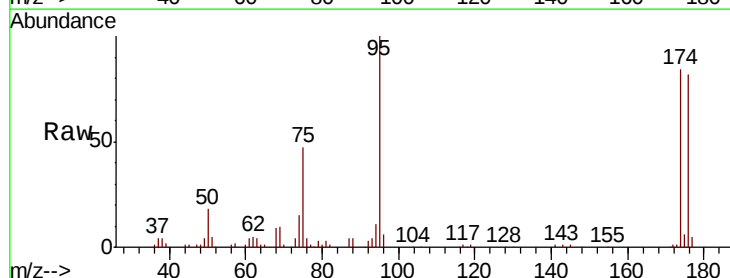
Tgt Ion: 95 Resp: 105675

Ion Ratio Lower Upper

95 100

174 85.4 0.0 170.8

176 82.8 0.0 164.8



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

80000

60000

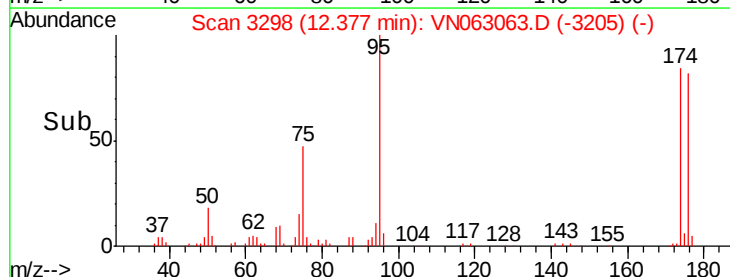
40000

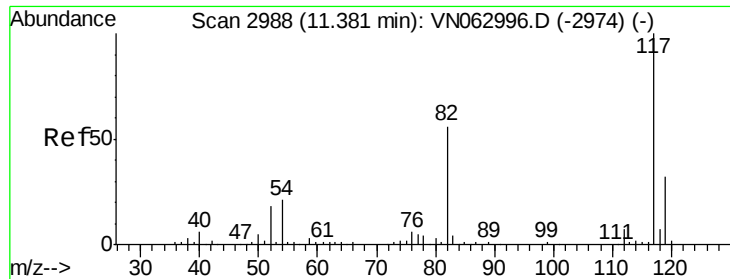
20000

0

12.30 12.40 12.50

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

S39-0207

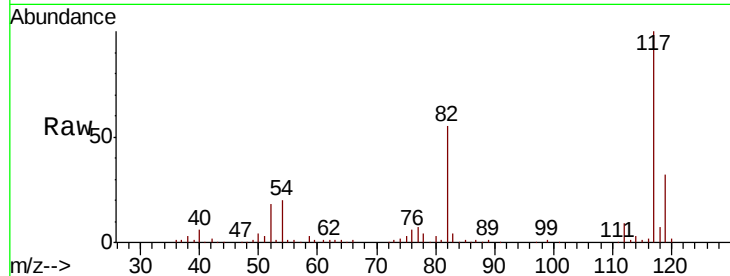
Tot Ion:117 Resp: 247770

Ion Ratio Lower Upper

117 100

82 54.9 44.5 66.7

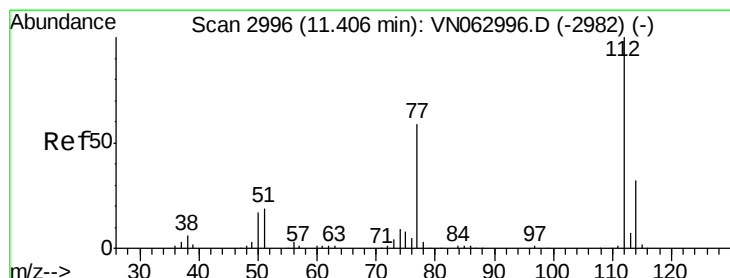
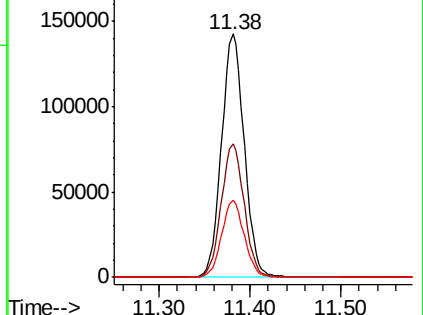
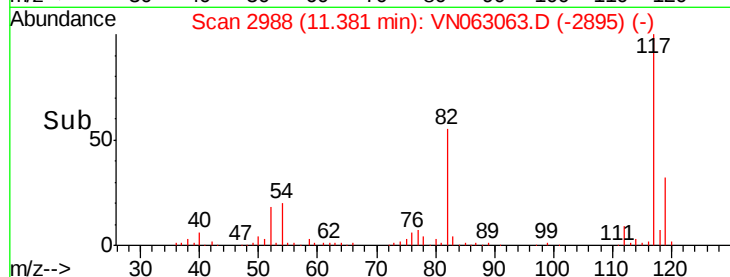
119 31.5 25.5 38.3



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



#65

Chlorobenzene

Concen: 57.022 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN063063.D

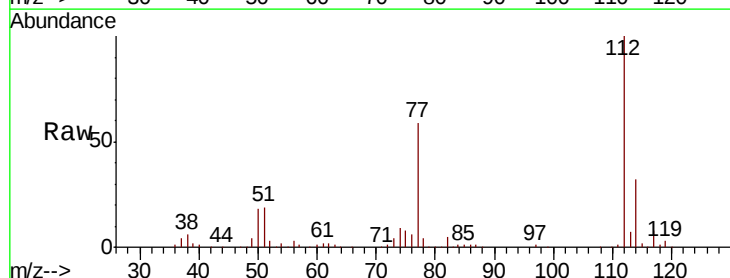
Acq: 21 Aug 2020 3:17

Tgt Ion:112 Resp: 283751

Ion Ratio Lower Upper

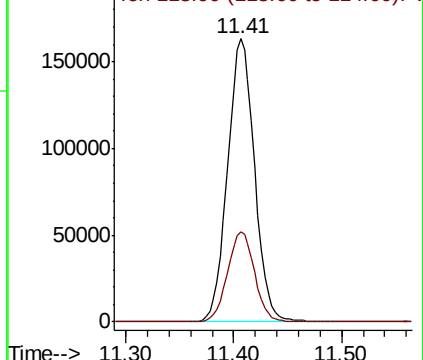
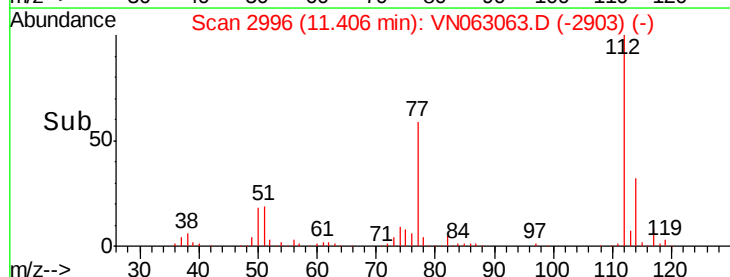
112 100

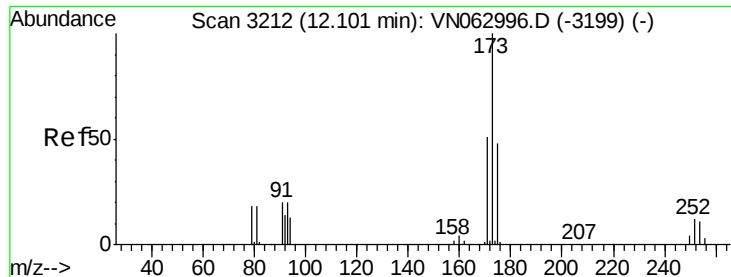
114 31.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.675 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampled :

S39-0207

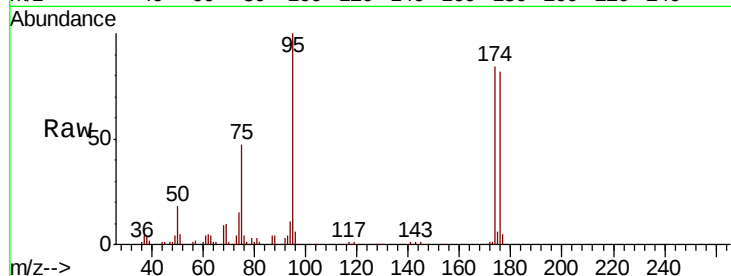
Tot Ion:173 Resp: 1040

Ion Ratio Lower Upper

173 100

175 520.0 24.3 72.8#

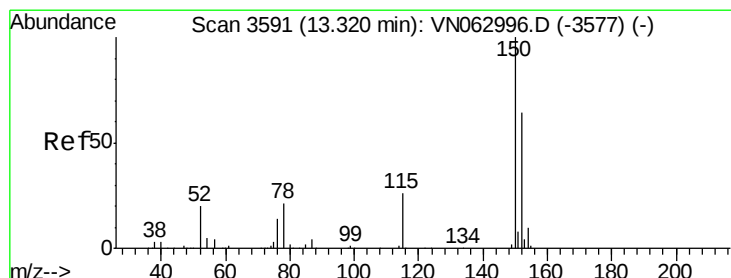
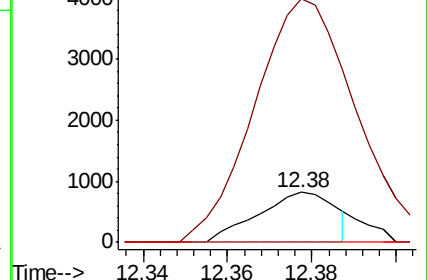
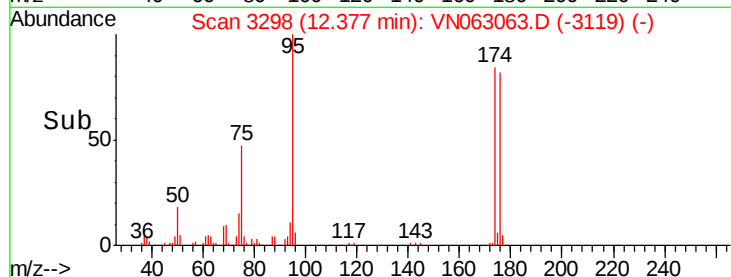
254 0.0 0.0 0.0



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: VN063063.D

Acq: 21 Aug 2020 3:17

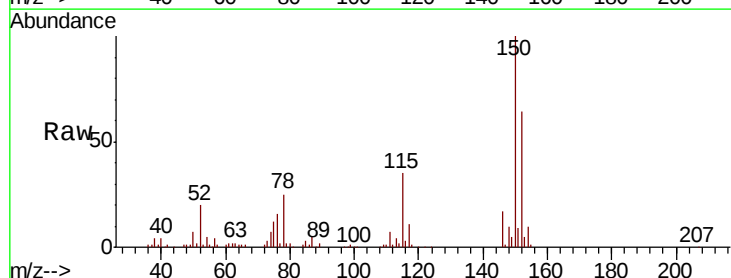
Tgt Ion:152 Resp: 94739

Ion Ratio Lower Upper

152 100

115 56.4 28.7 86.3

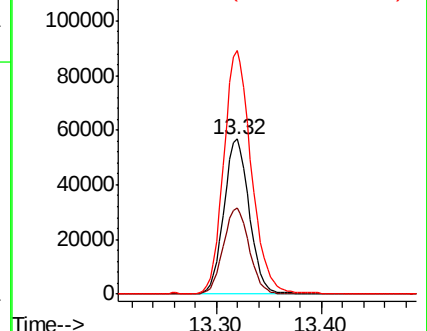
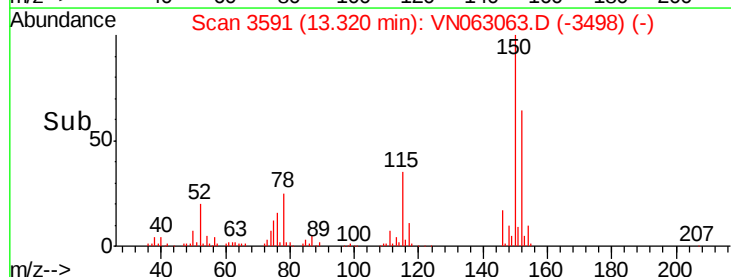
150 169.5 0.0 348.8

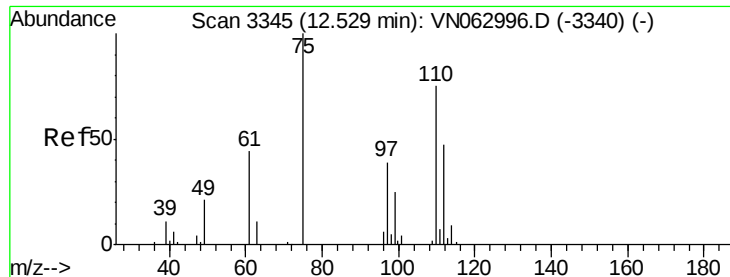


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.165 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

Instrument :

MSVOA_N

ClientSampleId :

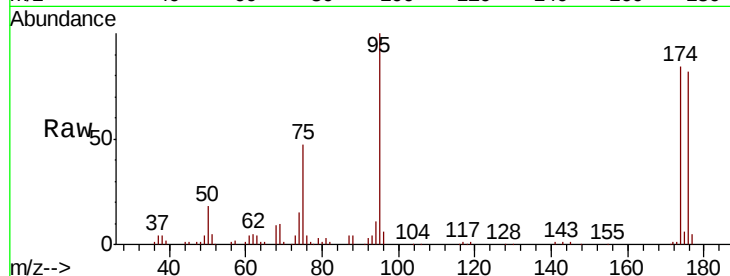
S39-0207

Tot Ion: 75 Resp: 50025

Ion Ratio Lower Upper

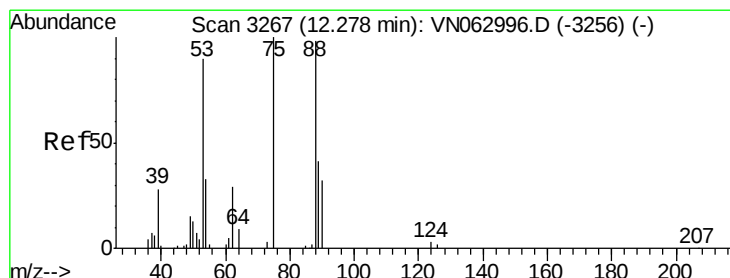
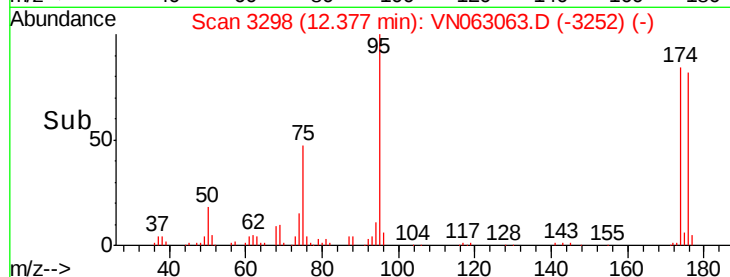
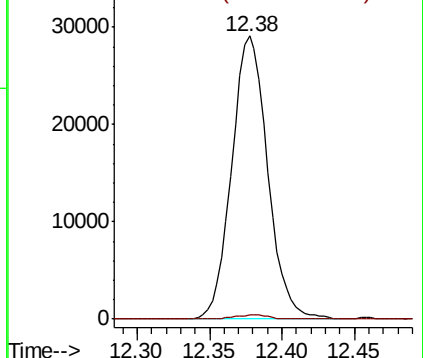
75 100

77 1.3 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: 74.608 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063063.D

Acq: 21 Aug 2020 3:17

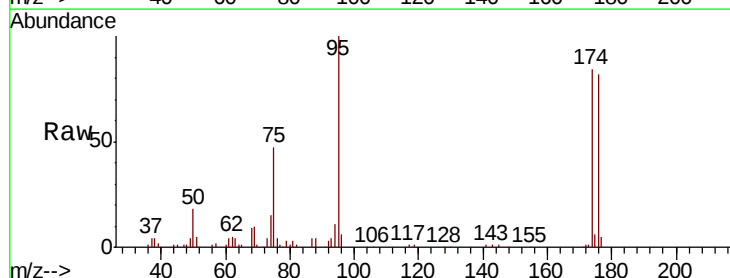
Tgt Ion: 75 Resp: 50025

Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

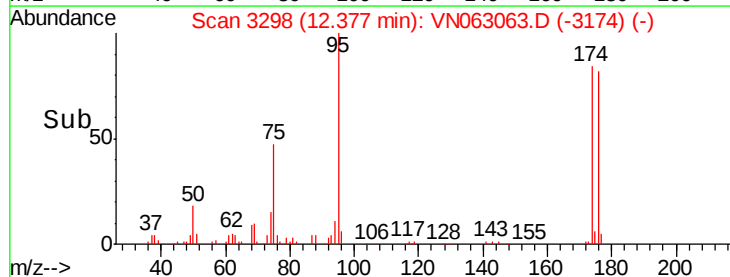
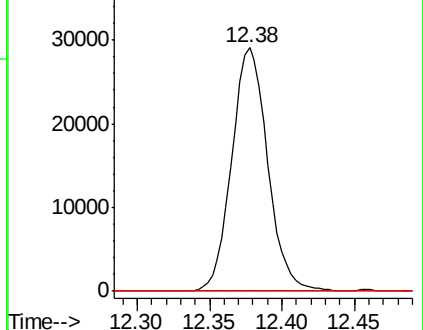
89 0.0 34.2 51.4#

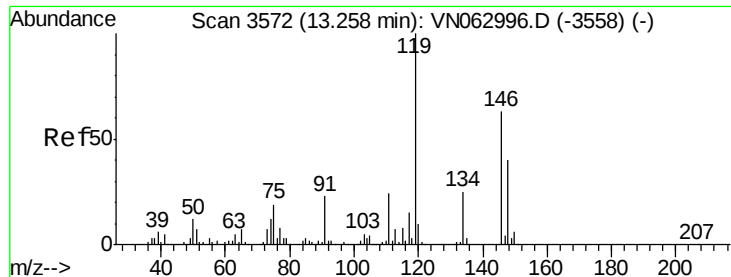


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

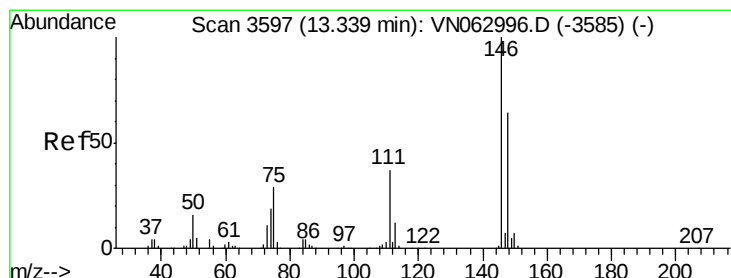
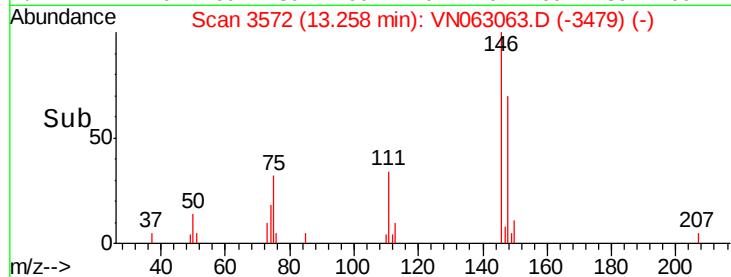
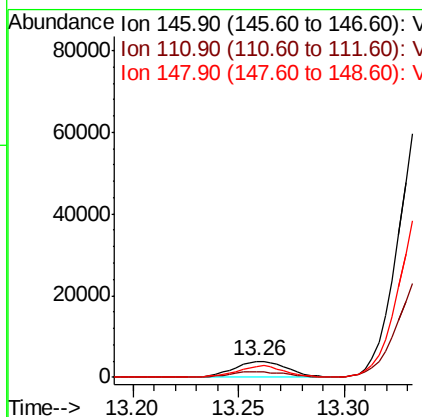
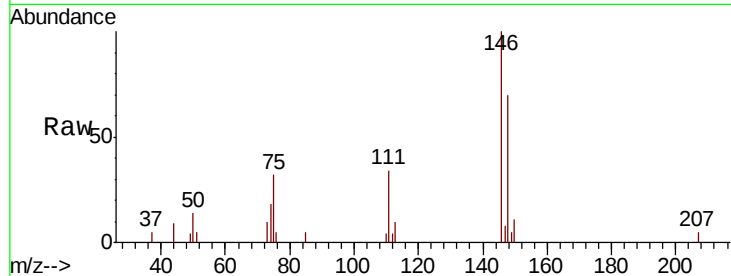




#87
 1,3-Dichlorobenzene
 Concen: 2.259 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

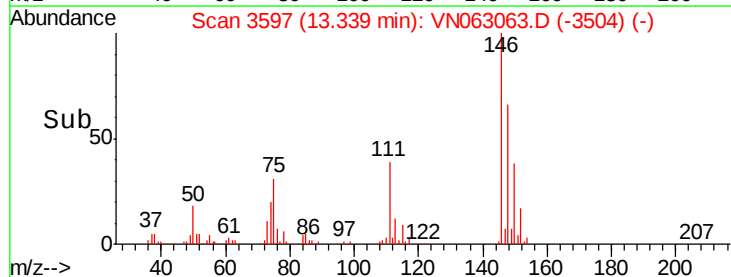
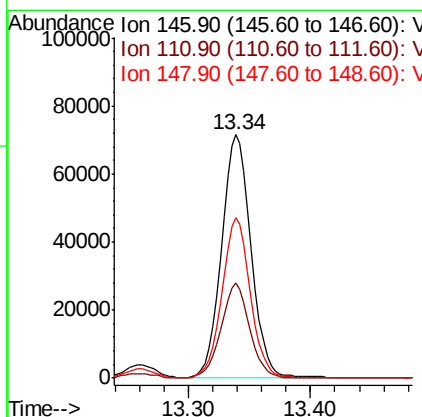
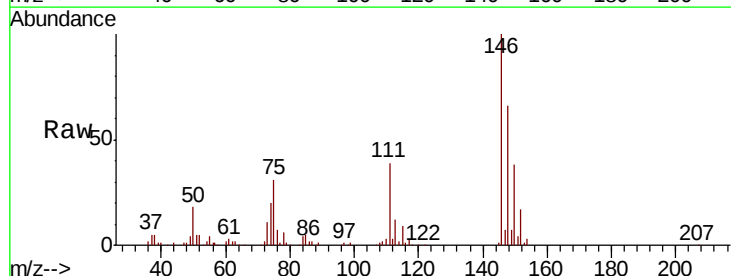
Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0207

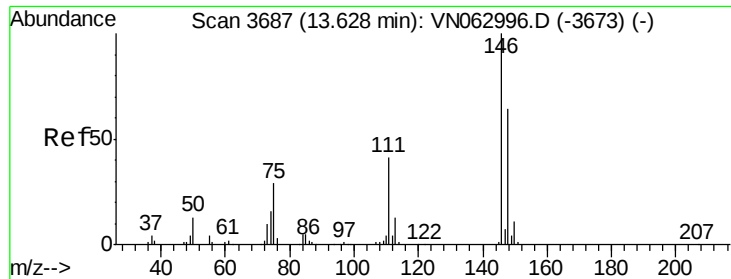
Tot Ion:146 Resp: 6927
 Ion Ratio Lower Upper
 146 100
 111 35.3 19.4 58.1
 148 64.8 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 38.937 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

Tgt Ion:146 Resp: 121188
 Ion Ratio Lower Upper
 146 100
 111 37.9 18.8 56.4
 148 64.0 32.4 97.0

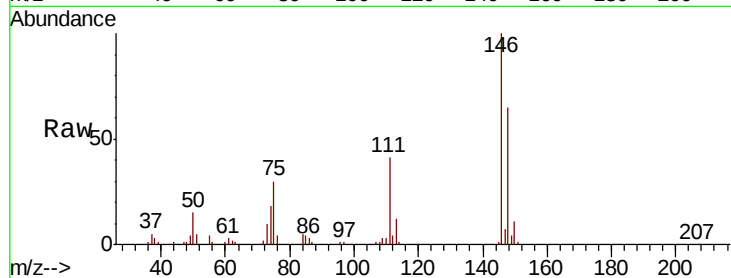




#91
 1,2-Dichlorobenzene
 Concen: 30.584 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. 0.00 min
 Lab File: VN063063.D
 Acq: 21 Aug 2020 3:17

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0207

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.2	60.5
148	63.1	31.9	95.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

