

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054593.D
 Acq On : 23 Mar 2019 8:18
 Operator : JC/SP
 Sample : K2045-19
 Misc : 5.93g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 01:52:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	586895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	911016	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	785042	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	318544	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	360980	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
35) Dibromofluoromethane	7.59	113	272749	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
50) Toluene-d8	10.09	98	1112372	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	12.40	95	361335	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	

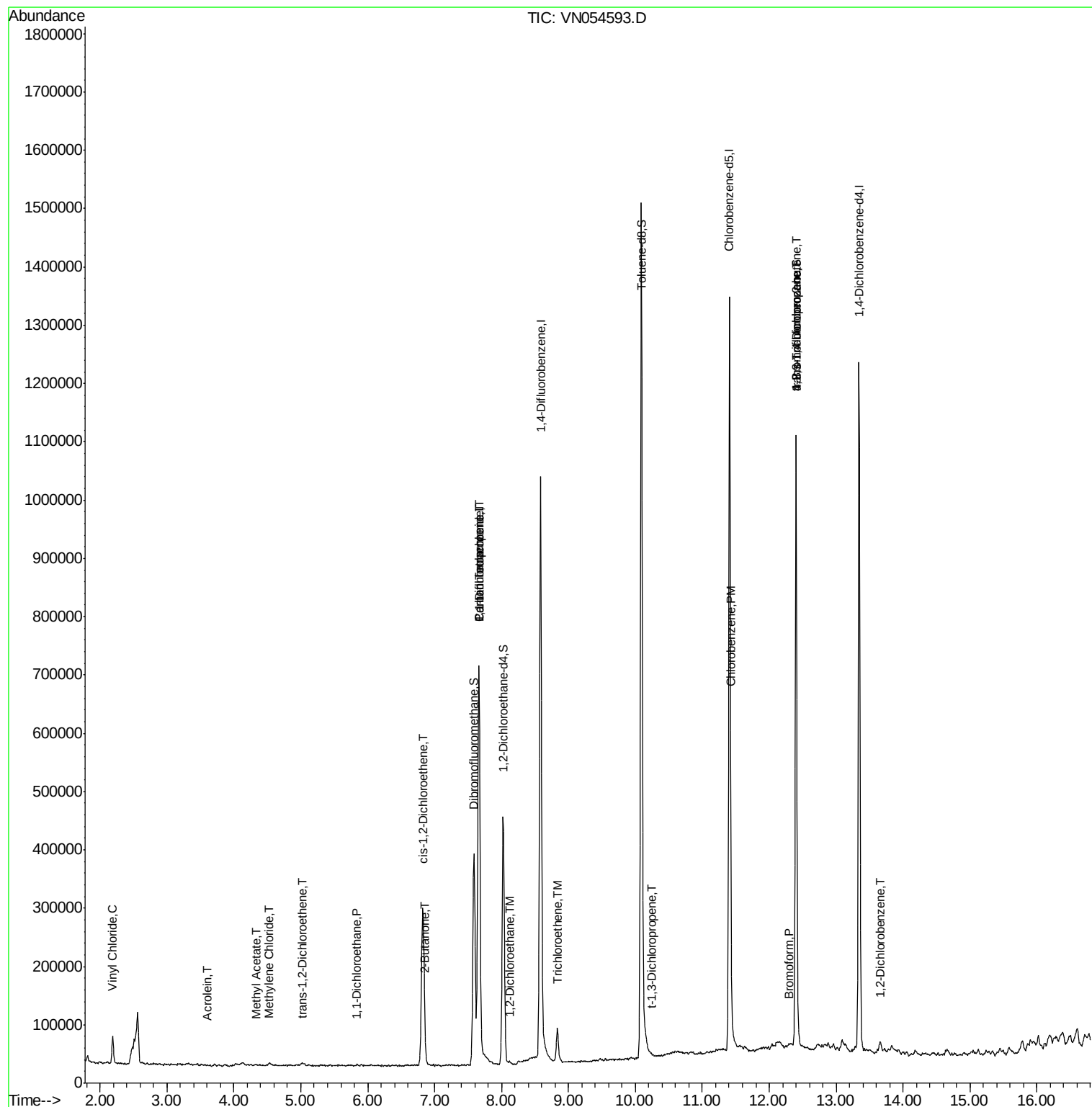
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.19	62	45033	5.876	ug/l	100
13) Acrolein	3.59	56	248	0.407	ug/l #	29
18) Methyl Acetate	4.33	43	2115	0.432	ug/l #	59
20) Methylene Chloride	4.53	84	2419	0.374	ug/l #	84
21) trans-1,2-Dichloroethene	5.02	96	3066	0.530	ug/l #	85
24) 1,1-Dichloroethane	5.84	63	3746	0.331	ug/l #	87
25) 2-Butanone	6.86	43	777	0.276	ug/l #	68
27) cis-1,2-Dichloroethene	6.82	96	172756	25.057	ug/l	97
31) Cyclohexane	7.66	56	12862	Below Cal	#	6
36) 1,1-Dichloropropene	7.66	75	42628	5.004	ug/l #	48
38) Carbon Tetrachloride	7.66	117	55347	6.686	ug/l #	15
42) 1,2-Dichloroethane	8.12	62	3548	0.400	ug/l	89
44) Trichloroethene	8.83	130	21891	3.233	ug/l	94
53) t-1,3-Dichloropropene	10.24	75	444	2.282	ug/l	97
65) Chlorobenzene	11.43	112	6208	0.389	ug/l	92
71) Bromoform	12.29	173	97	2.244	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	185201	36.639	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185201	121.466	ug/l #	11
91) 1,2-Dichlorobenzene	13.66	146	4478	0.438	ug/l	71

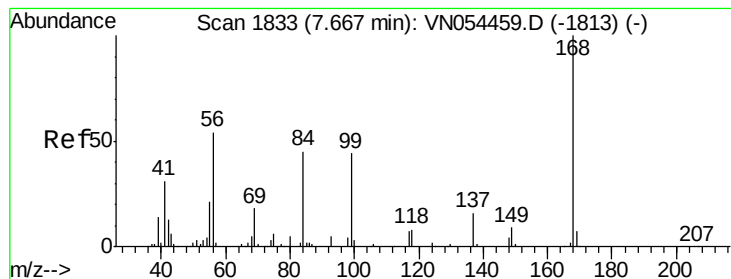
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

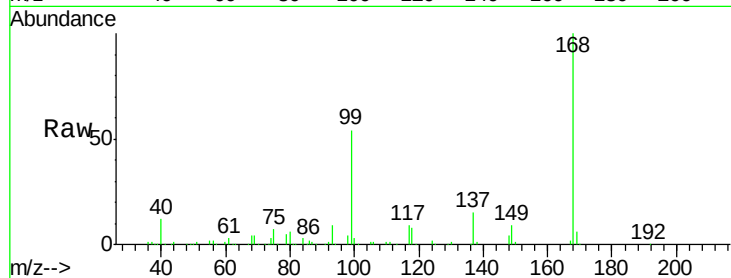
ClientSampled :

Tot Ion:168 Resp: 586895

Ion Ratio Lower Upper

168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

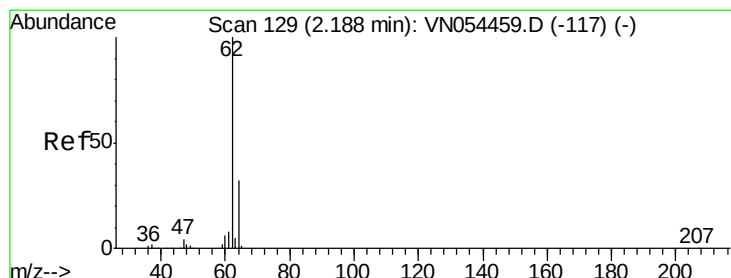
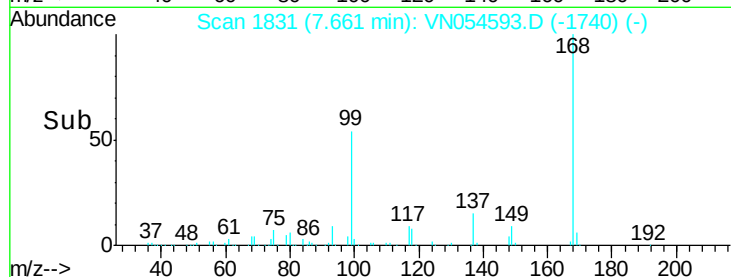
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 5.876 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054593.D

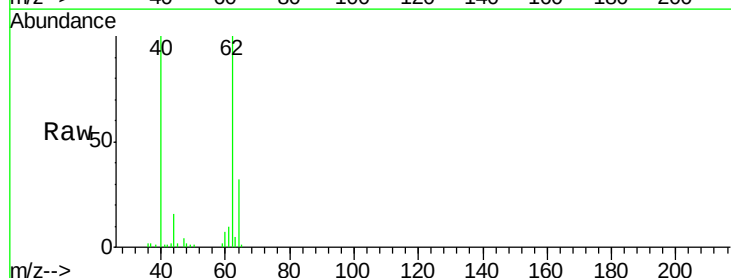
Acq: 23 Mar 2019 8:18

Tgt Ion: 62 Resp: 45033

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

30000

25000

20000

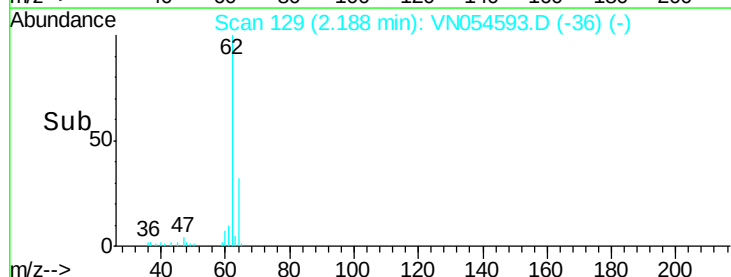
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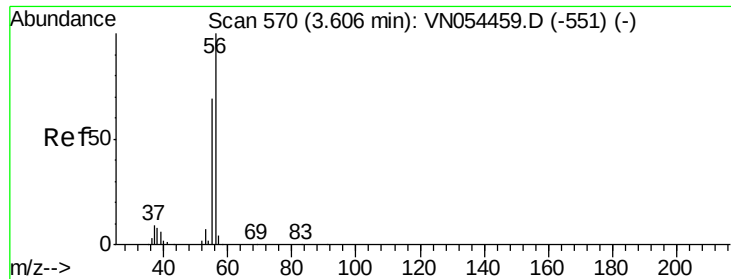
10000

5000

0

Time-->





#13

Acrolein

Concen: 0.407 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

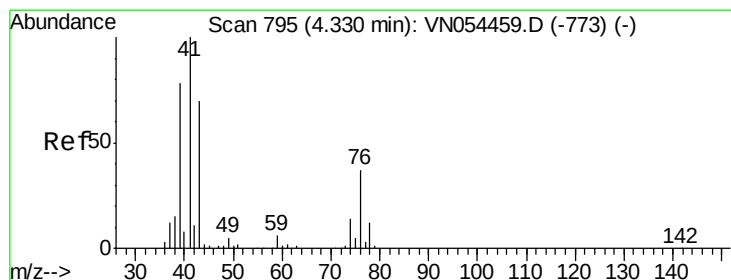
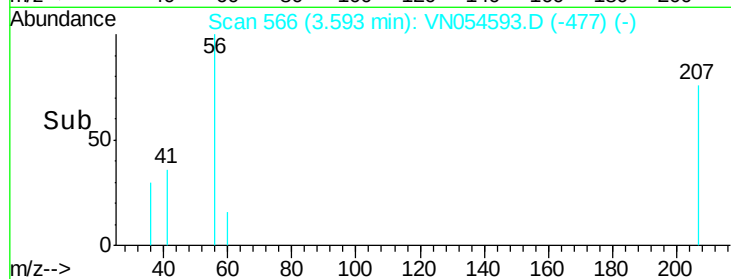
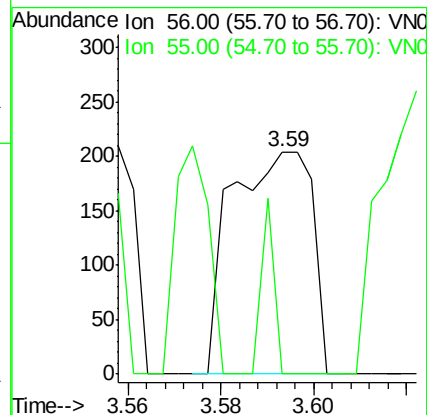
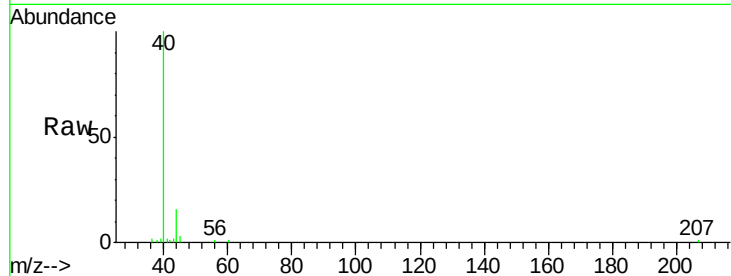
ClientSampled :

Tot Ion: 56 Resp: 248

Ion Ratio Lower Upper

56 100

55 12.5 56.7 85.1#



#18

Methyl Acetate

Concen: 0.432 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN054593.D

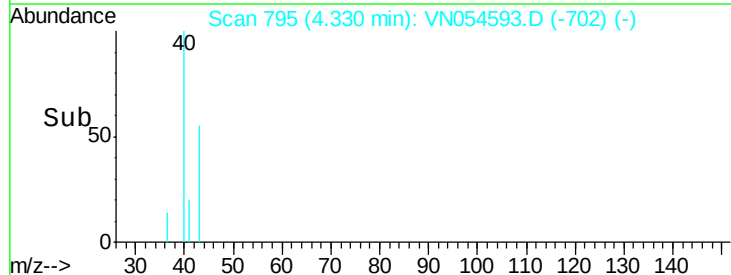
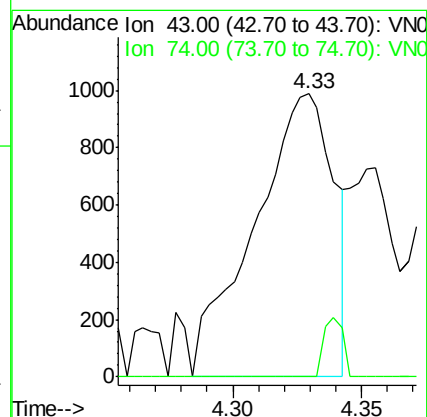
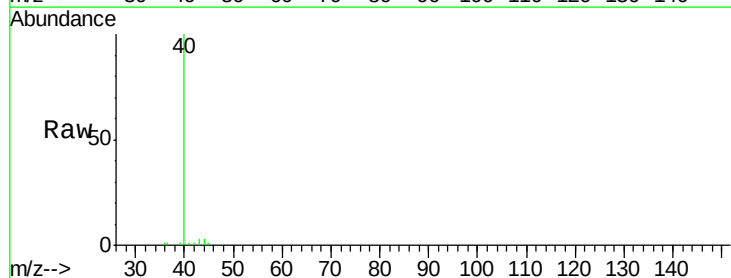
Acq: 23 Mar 2019 8:18

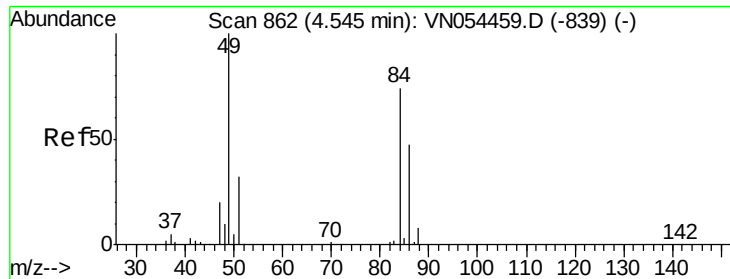
Tgt Ion: 43 Resp: 2115

Ion Ratio Lower Upper

43 100

74 5.1 20.8 31.2#

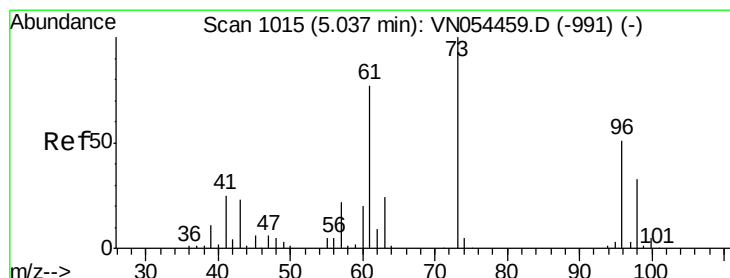
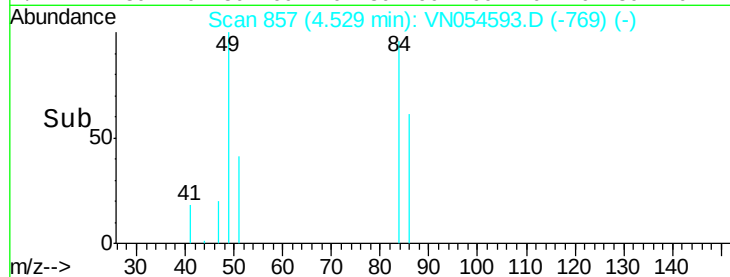
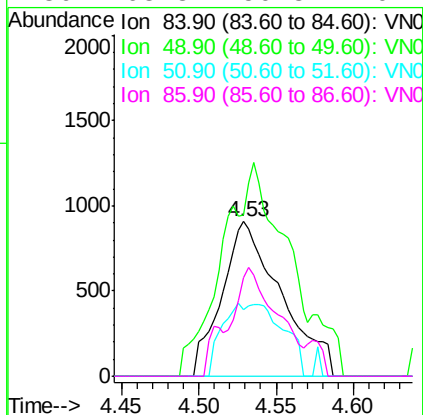
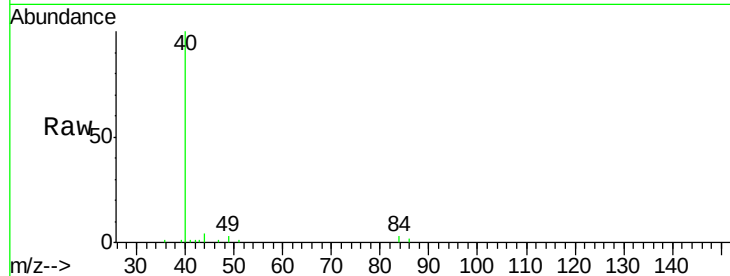




#20
Methylene Chloride
Concen: 0.374 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.02 min
Lab File: VN054593.D
Acq: 23 Mar 2019 8:18

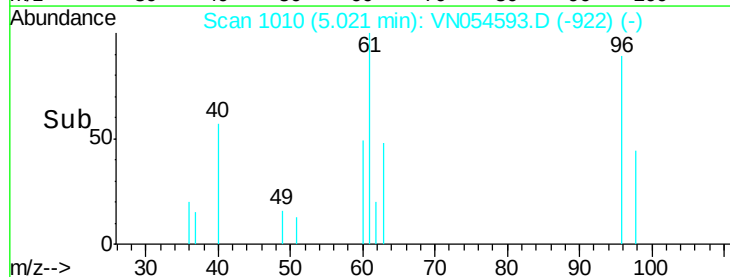
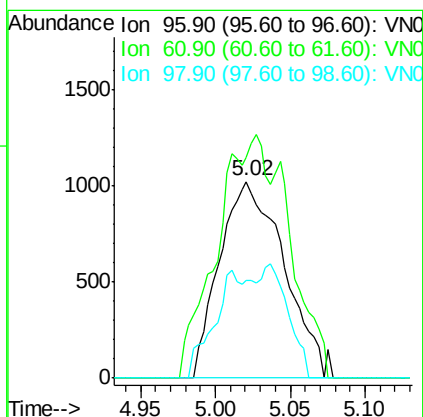
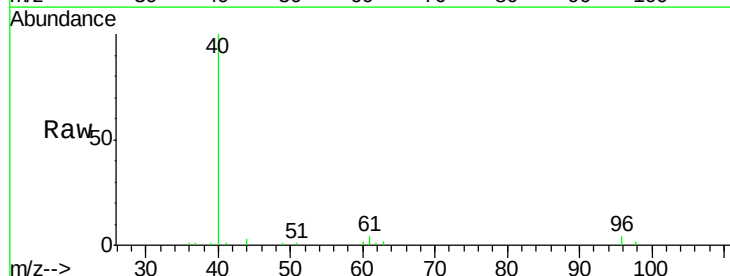
Instrument :
MSVOA_N
ClientSampleId :

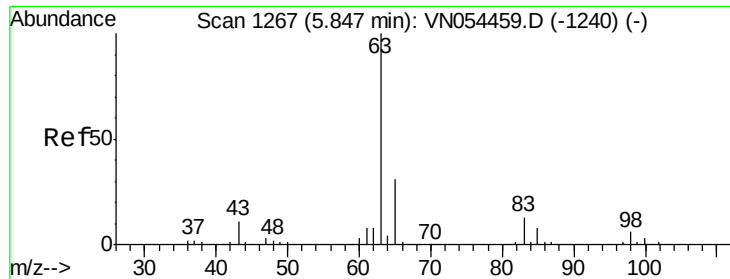
Tot Ion: 84 Resp: 2419
Ion Ratio Lower Upper
84 100
49 83.7 89.7 134.5#
51 42.8 28.2 42.4#
86 63.3 50.8 76.2



#21
trans-1,2-Dichloroethene
Concen: 0.530 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. -0.02 min
Lab File: VN054593.D
Acq: 23 Mar 2019 8:18

Tgt Ion: 96 Resp: 3066
Ion Ratio Lower Upper
96 100
61 112.0 102.8 154.2
98 49.6 50.0 75.0#





#24

1,1-Dichloroethane

Concen: 0.331 ug/l

RT: 5.84 min Scan# 1264

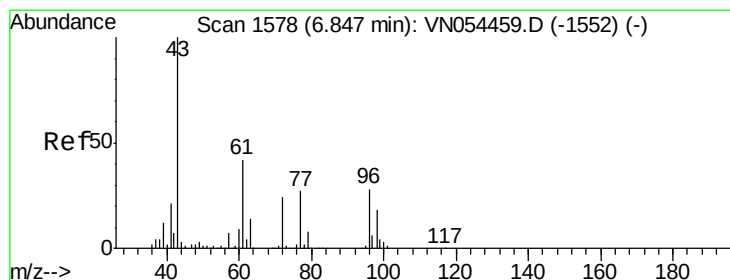
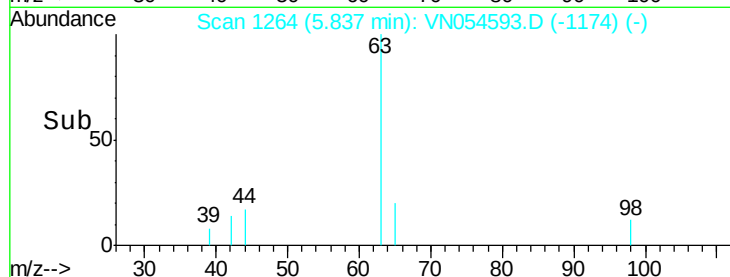
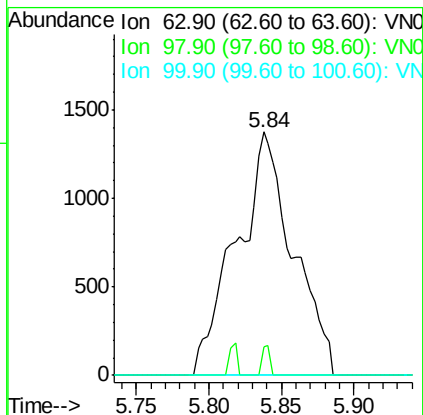
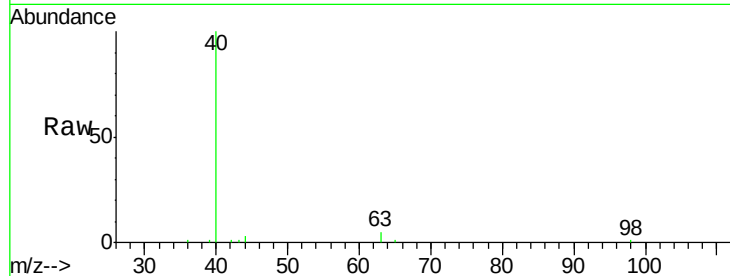
Delta R.T. -0.01 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	63	Resp:	3746
Ion	Ratio	Lower	Upper
63	100		
98	11.8	3.5	10.5#
100	0.0	2.0	6.0#



#25

2-Butanone

Concen: 0.276 ug/l

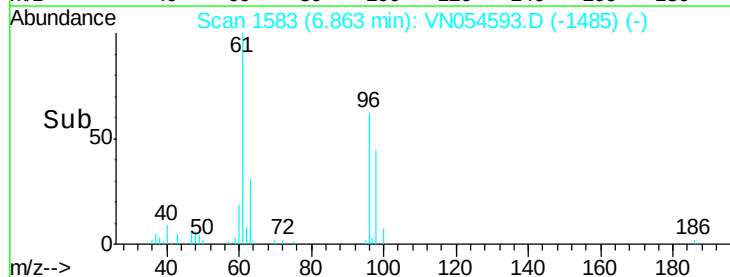
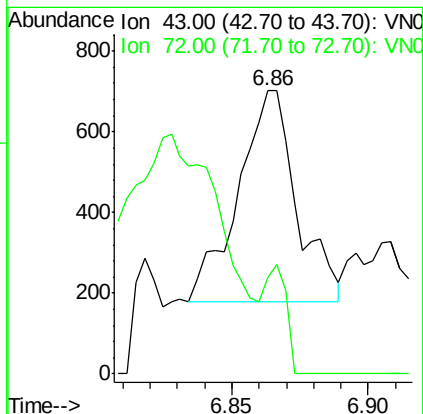
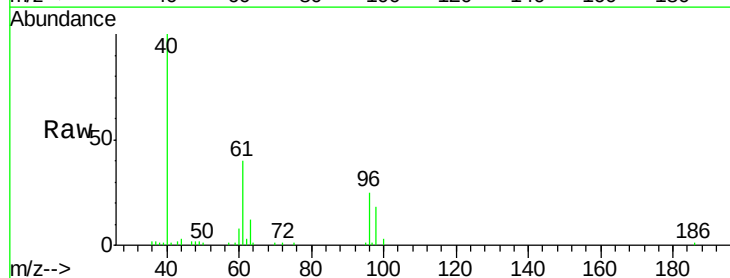
RT: 6.86 min Scan# 1583

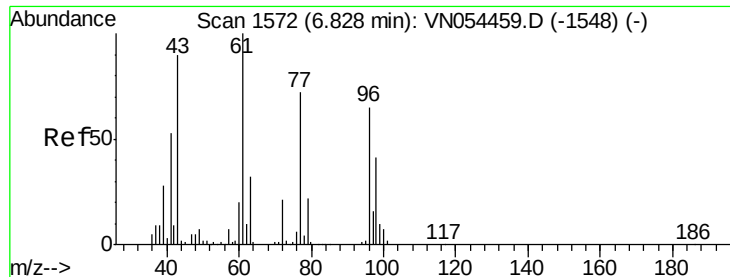
Delta R.T. 0.02 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Tgt Ion:	43	Resp:	777
Ion	Ratio	Lower	Upper
43	100		
72	45.7	23.0	34.6#





#27

cis-1,2-Dichloroethene

Concen: 25.057 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :
MSVOA_N
ClientSampleId :

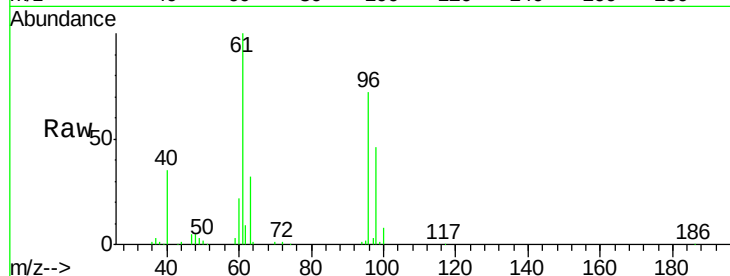
Tot Ion: 96 Resp: 172756

Ion Ratio Lower Upper

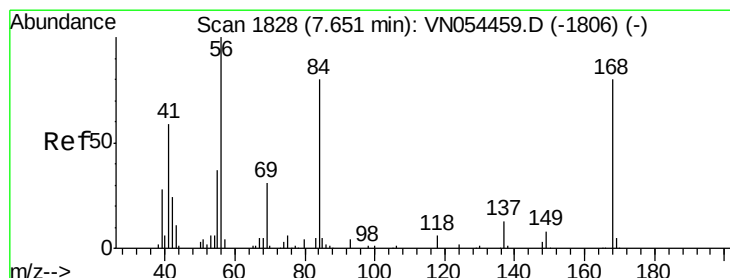
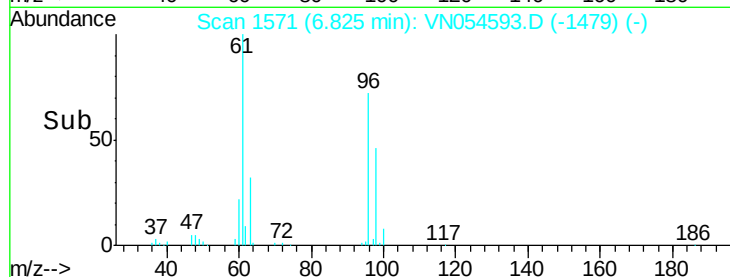
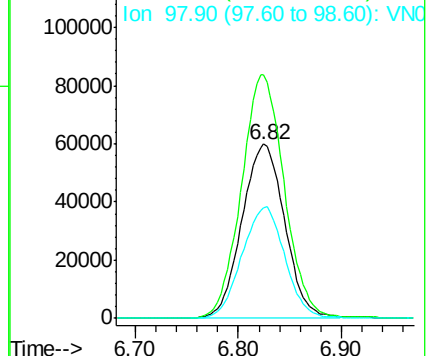
96 100

61 140.4 0.0 273.0

98 64.4 0.0 130.6



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



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

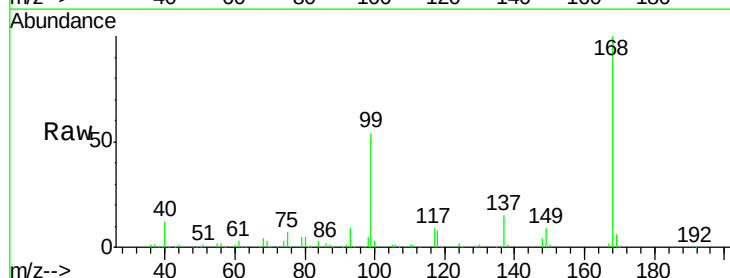
Tgt Ion: 56 Resp: 12862

Ion Ratio Lower Upper

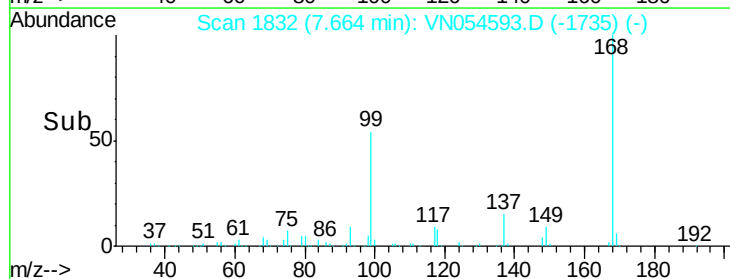
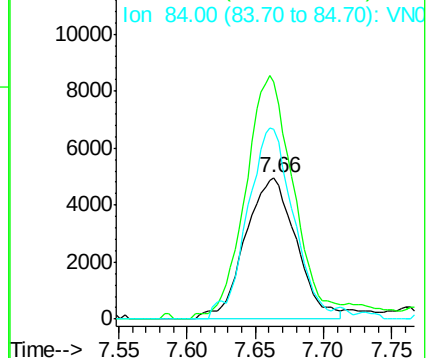
56 100

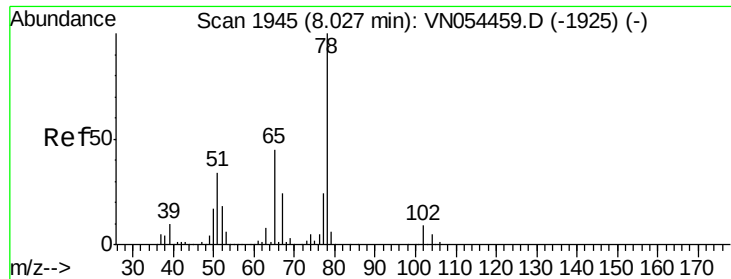
69 167.5 27.8 41.6#

84 134.6 74.6 111.8#



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

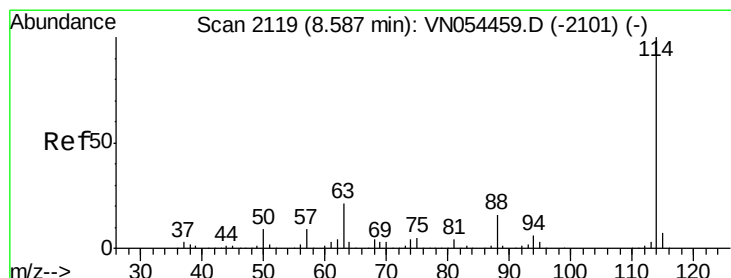
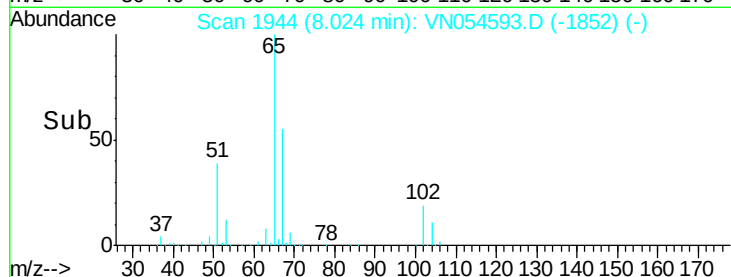
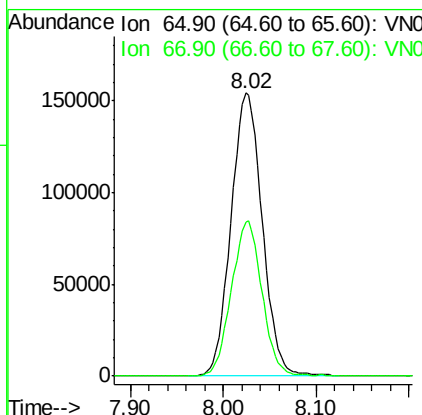
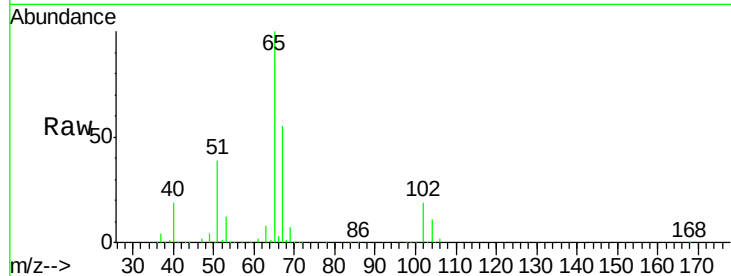




#33
 1,2-Dichloroethane-d4
 Concen: 49.449 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054593.D
 Acq: 23 Mar 2019 8:18

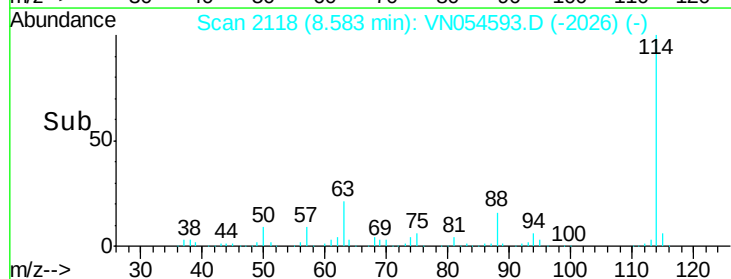
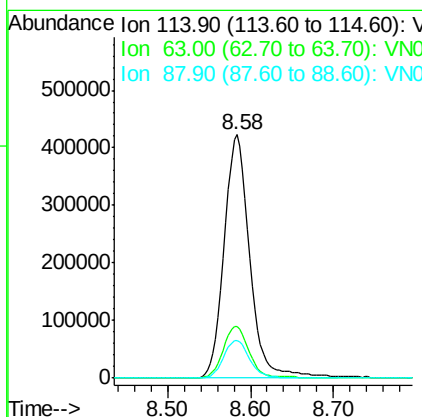
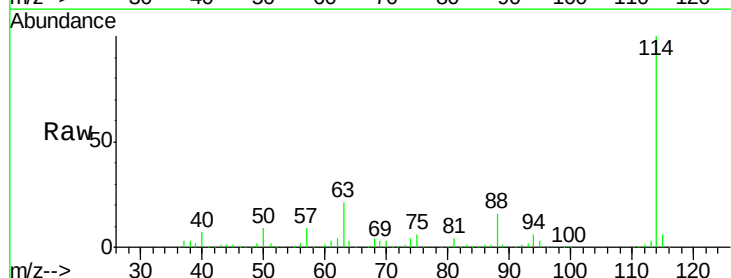
Instrument :
 MSVOA_N
 ClientSampleId :

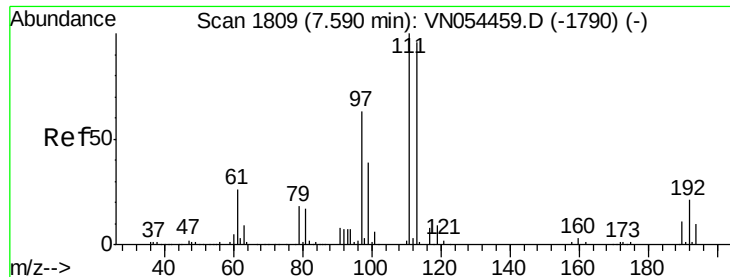
Tot Ion: 65 Resp: 360980
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054593.D
 Acq: 23 Mar 2019 8:18

Tgt Ion: 114 Resp: 911016
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 35.2
 88 15.6 0.0 30.2

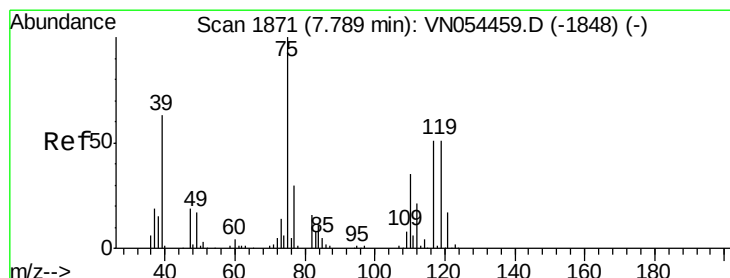
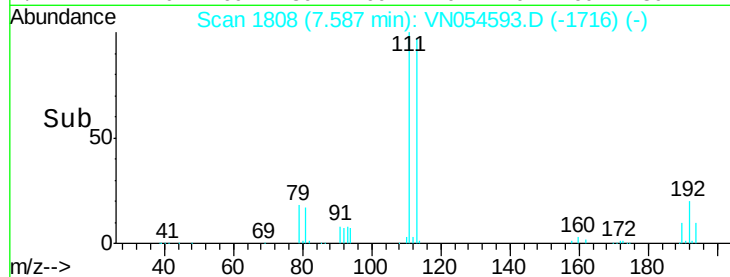
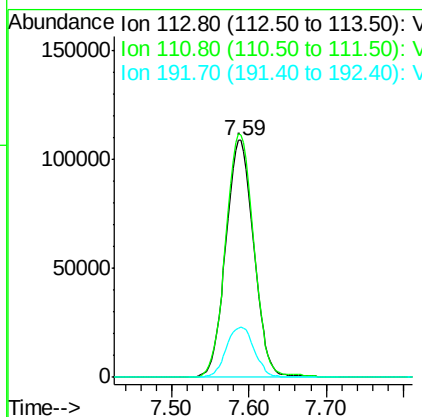
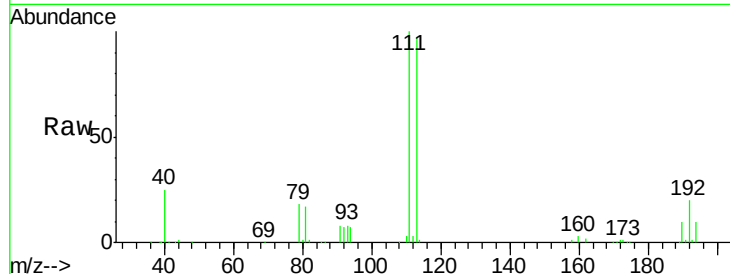




#35
 Dibromofluoromethane
 Concen: 46.471 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN054593.D
 Acq: 23 Mar 2019 8:18

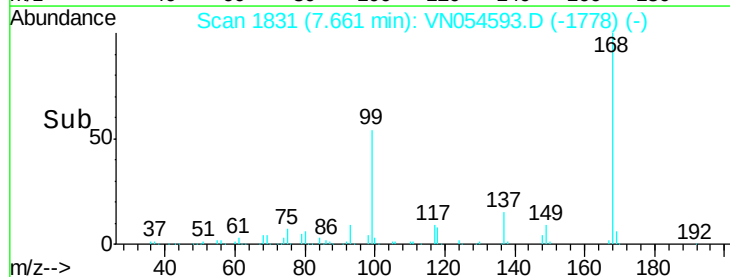
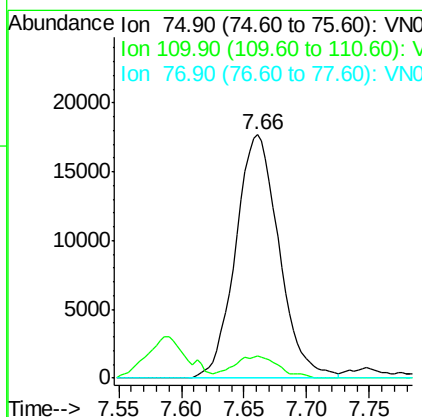
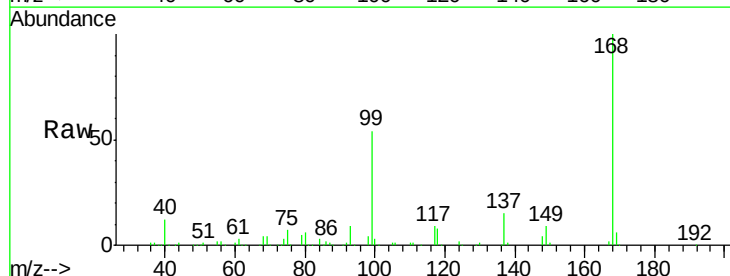
Instrument :
 MSVOA_N
 ClientSampled :

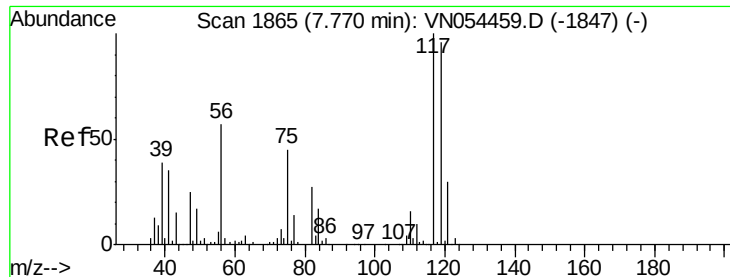
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.2	123.4
192	21.3	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.004 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054593.D
 Acq: 23 Mar 2019 8:18

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.686 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

ClientSampled :

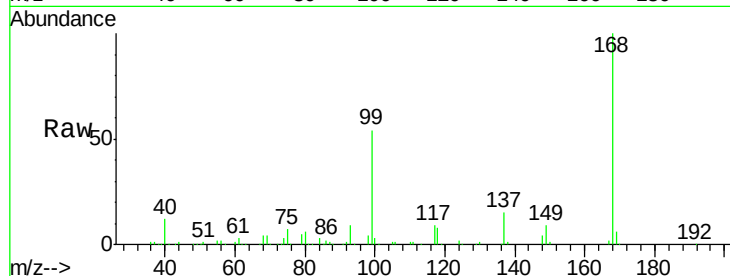
Tot Ion:117 Resp: 55347

Ion Ratio Lower Upper

117 100

119 4.2 76.3 114.5#

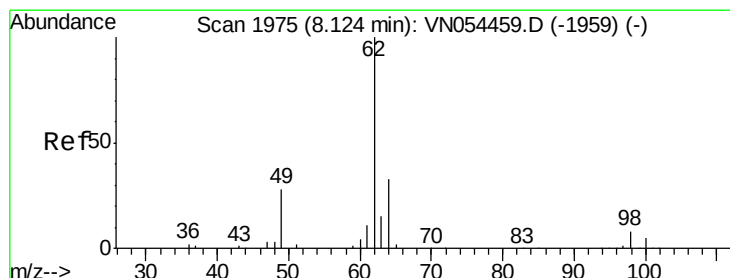
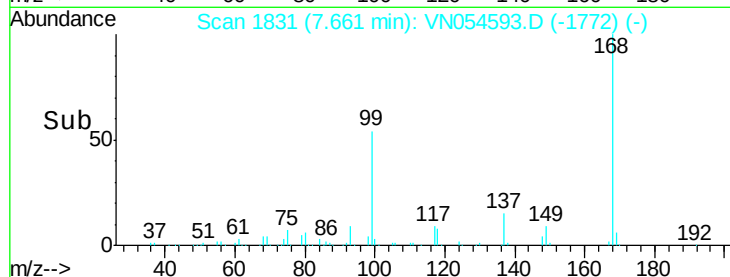
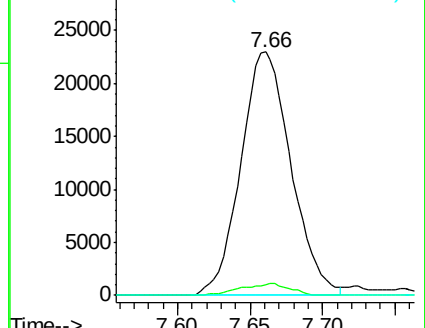
121 0.0 24.6 36.8#



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



#42

1,2-Dichloroethane

Concen: 0.400 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN054593.D

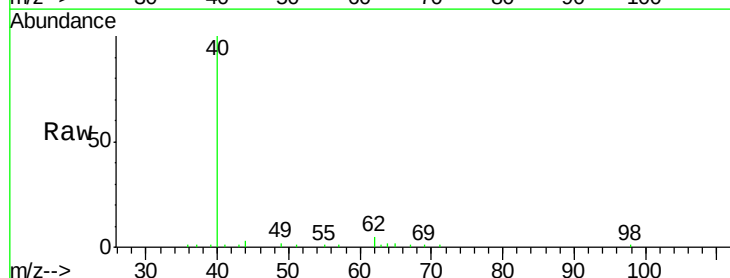
Acq: 23 Mar 2019 8:18

Tgt Ion: 62 Resp: 3548

Ion Ratio Lower Upper

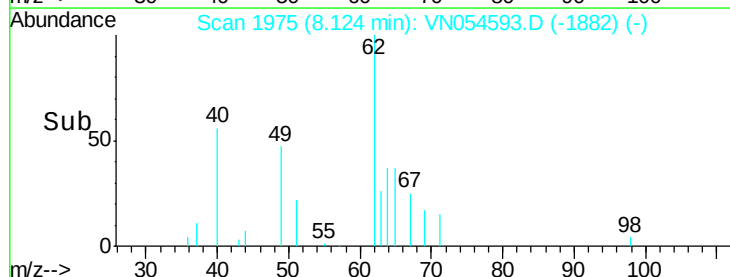
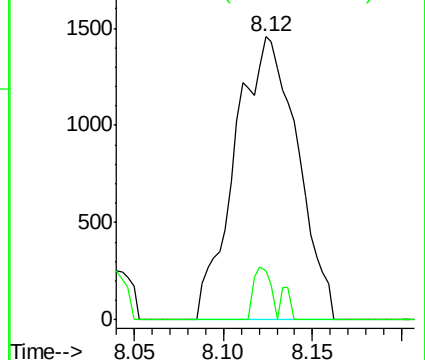
62 100

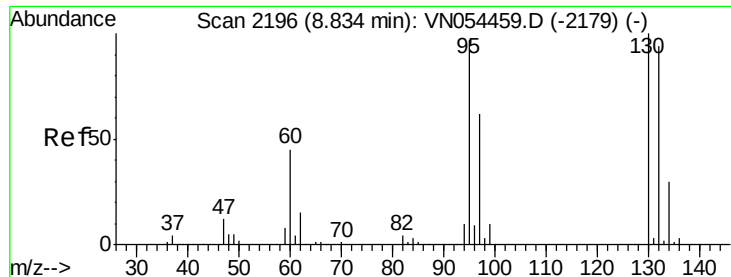
98 5.0 0.0 18.4



Abundance Ion 61.90 (61.60 to 62.60): V

Ion 97.90 (97.60 to 98.60): V





#44

Trichloroethene

Concen: 3.233 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. -0.00 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

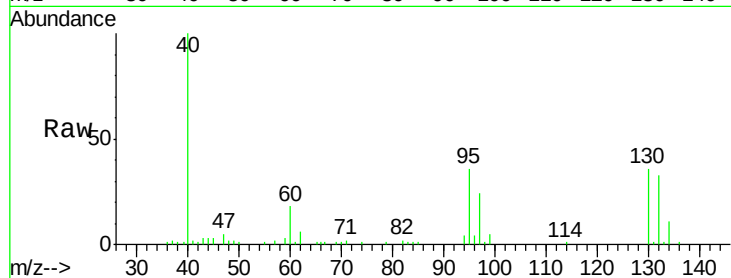
ClientSampleId :

Tot Ion:130 Resp: 21891

Ion Ratio Lower Upper

130 100

95 98.2 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054459.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054459.D (-2179) (-)

8.83

10000

8000

6000

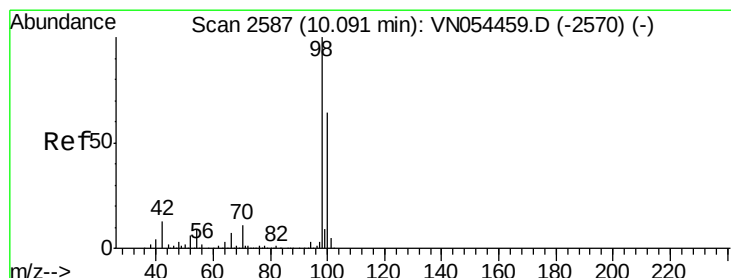
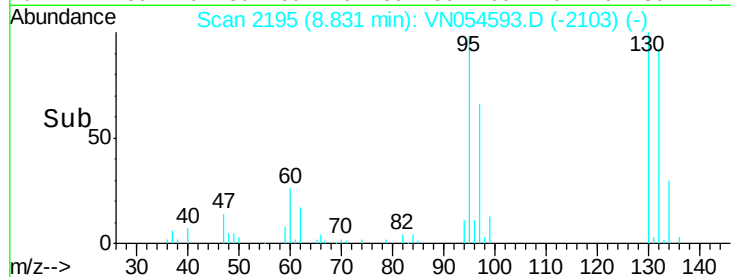
4000

2000

0

Time-->

8.75 8.80 8.85 8.90



#50

Toluene-d8

Concen: 50.414 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054593.D

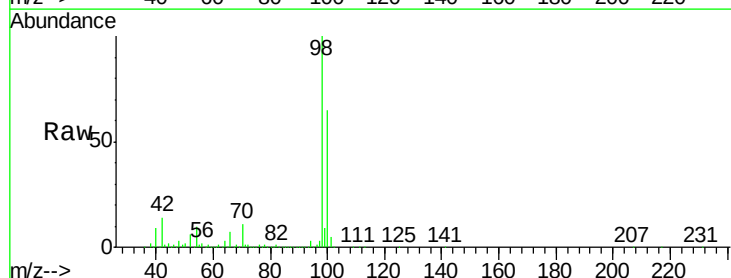
Acq: 23 Mar 2019 8:18

Tgt Ion: 98 Resp: 1112372

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN054459.D (-2570) (-)

10.09

600000

500000

400000

300000

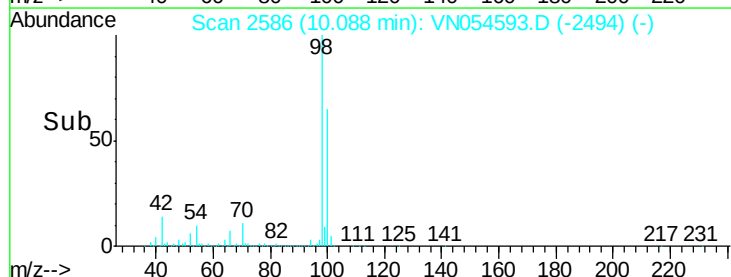
200000

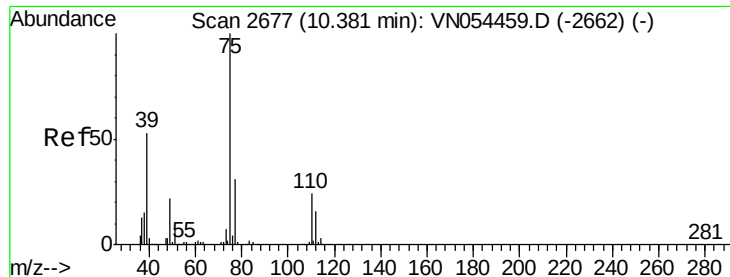
100000

0

Time-->

10.00 10.05 10.10 10.15 10.20





#53

t-1,3-Dichloropropene

Concen: 2.282 ug/l

RT: 10.24 min Scan# 2633

Delta R.T. -0.14 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

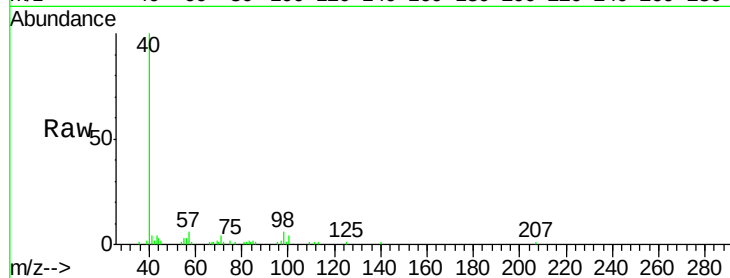
ClientSampleId :

Tot Ion: 75 Resp: 444

Ion Ratio Lower Upper

75 100

77 34.1 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.24

400

300

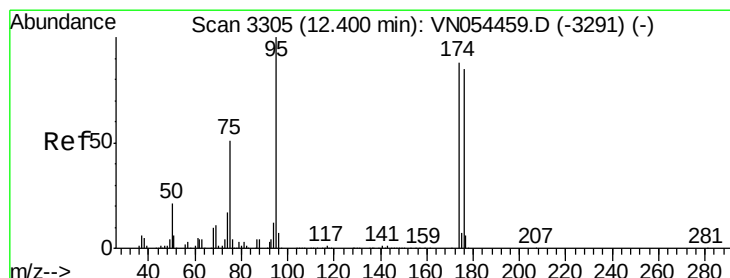
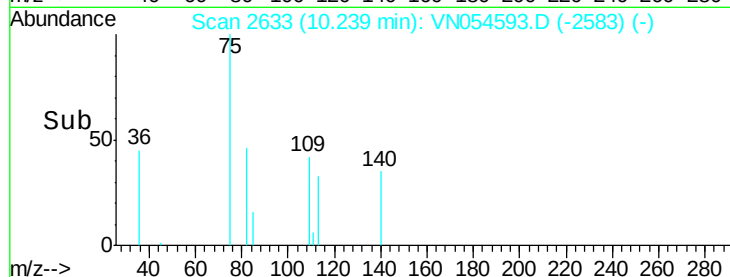
200

100

0

10.22 10.24 10.26

Time-->



#62

4-Bromofluorobenzene

Concen: 48.125 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

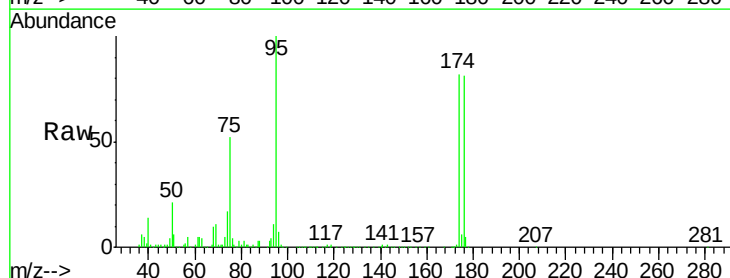
Tgt Ion: 95 Resp: 361335

Ion Ratio Lower Upper

95 100

174 83.4 0.0 191.0

176 81.7 0.0 187.4



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

250000

200000

150000

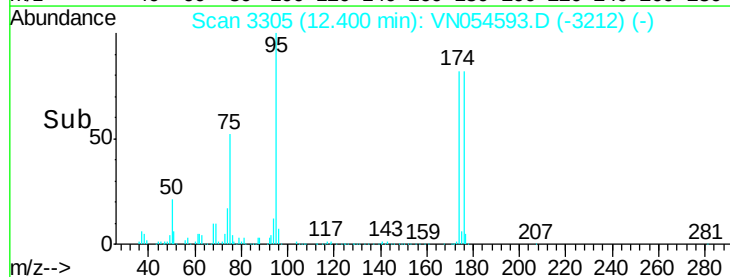
100000

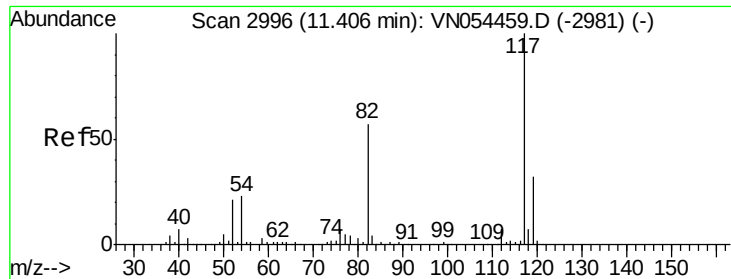
50000

0

12.30 12.40 12.50

Time-->

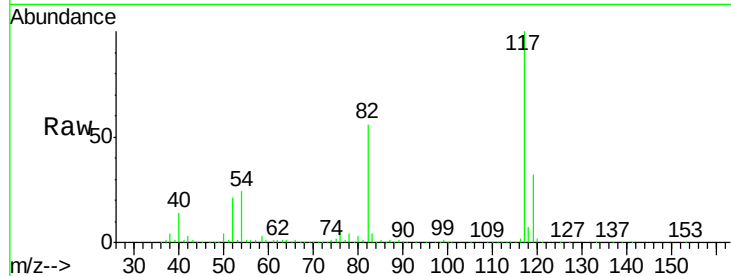




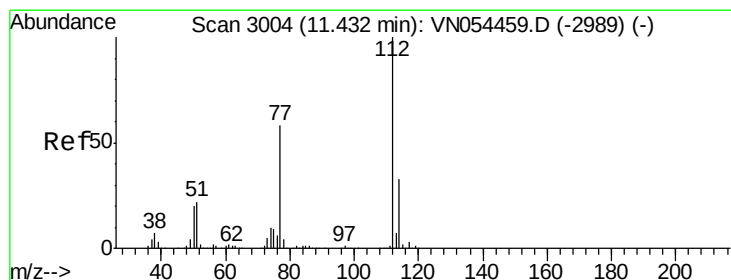
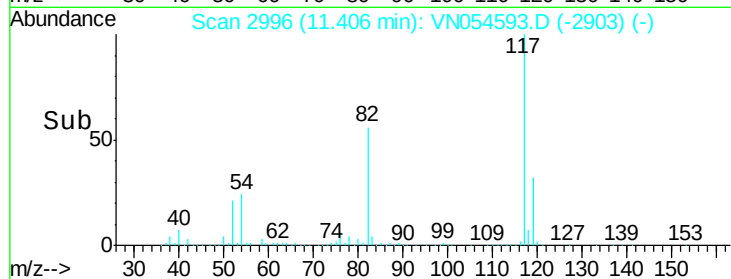
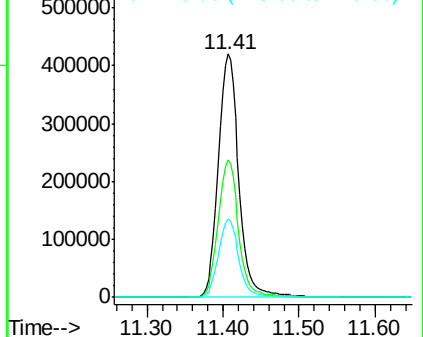
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054593.D
Acq: 23 Mar 2019 8:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 785042
Ion Ratio Lower Upper
117 100
82 56.3 40.0 60.0
119 32.2 25.8 38.6

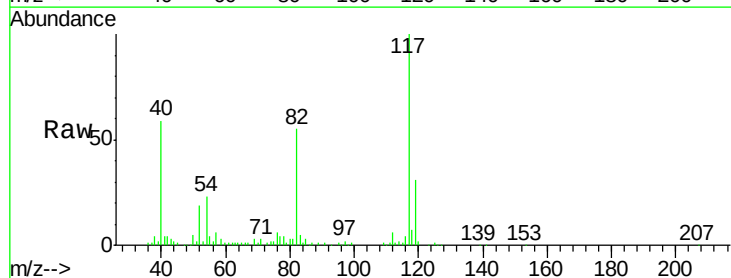


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

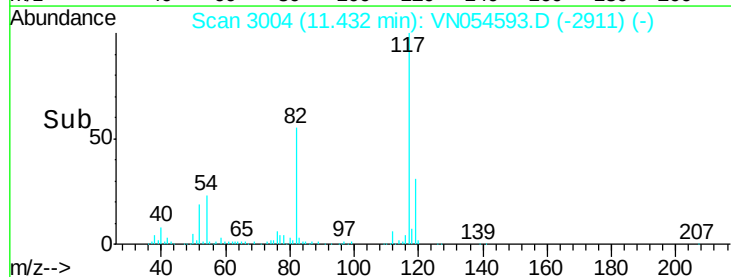
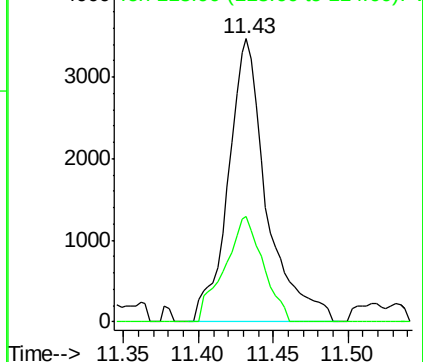


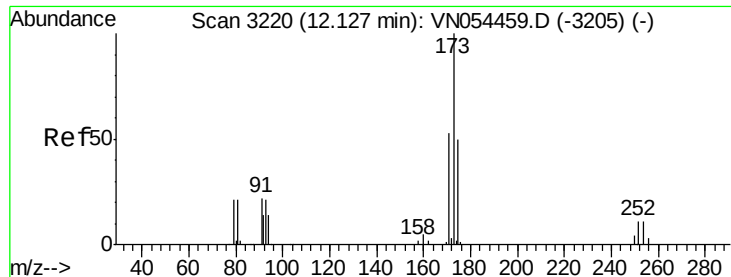
#65
Chlorobenzene
Concen: 0.389 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054593.D
Acq: 23 Mar 2019 8:18

Tgt Ion:112 Resp: 6208
Ion Ratio Lower Upper
112 100
114 37.0 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 2.244 ug/l

RT: 12.29 min Scan# 3271

Delta R.T. 0.16 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

ClientSampled :

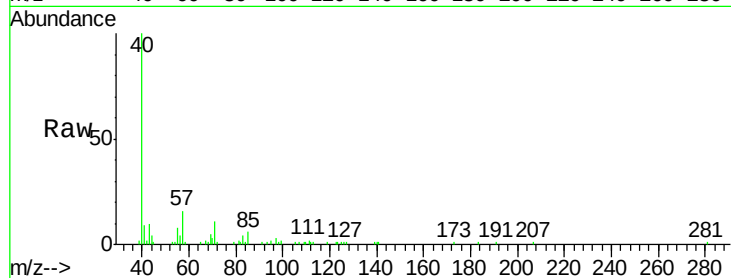
Tot Ion:173 Resp: 97

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

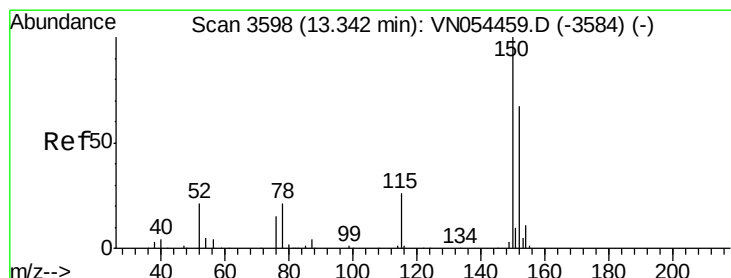
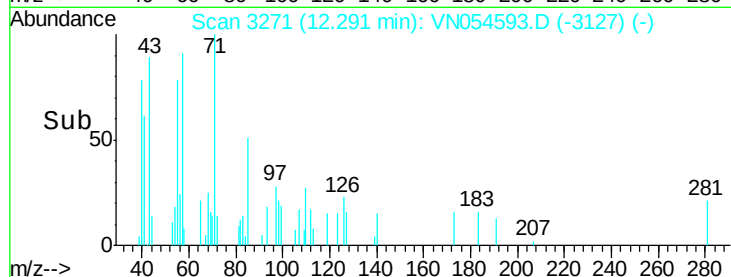
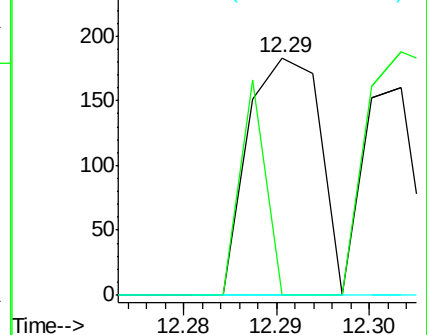
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

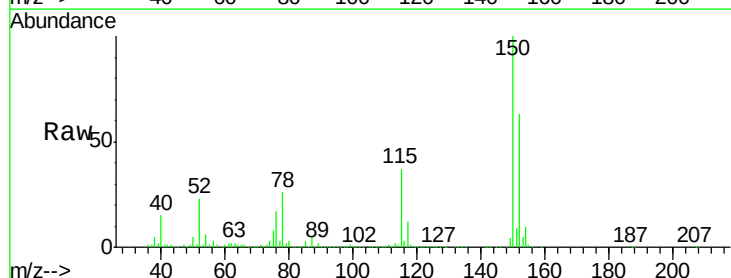
Tgt Ion:152 Resp: 318544

Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

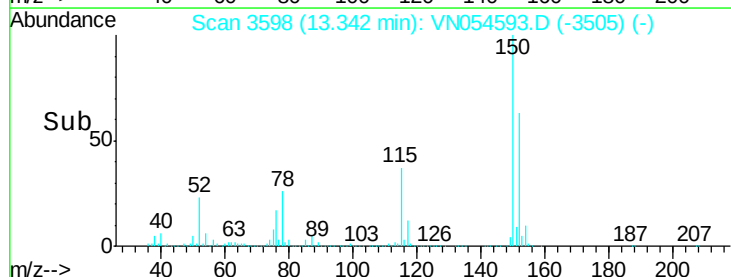
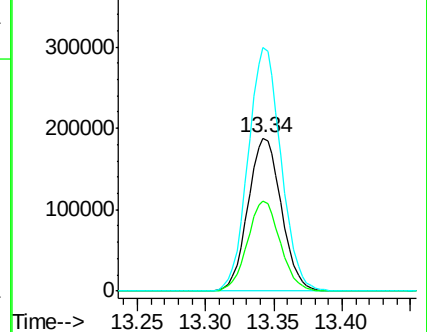
150 157.3 0.0 349.2

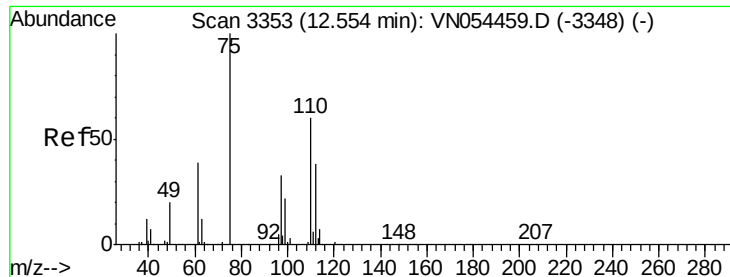


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.639 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

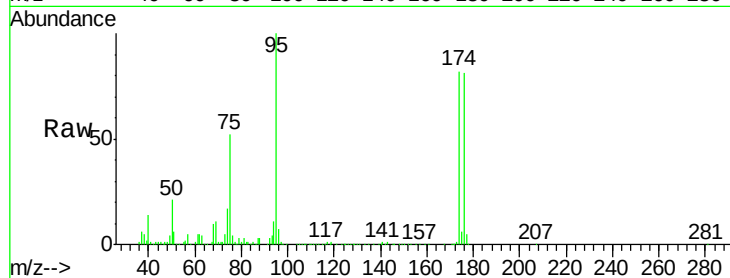
ClientSampleId :

Tot Ion: 75 Resp: 185201

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

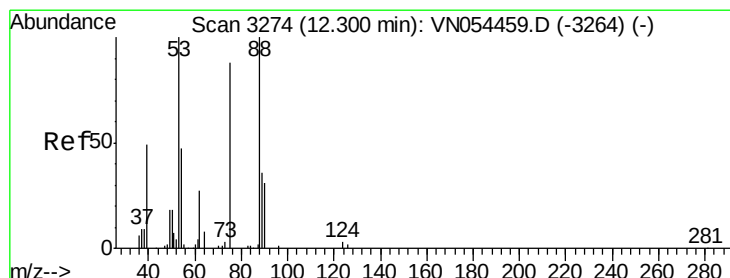
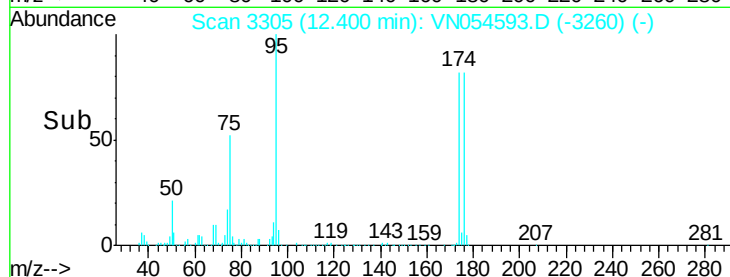
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 121.466 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

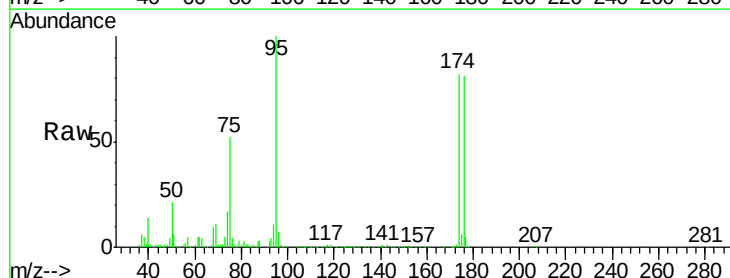
Tgt Ion: 75 Resp: 185201

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 39.2 58.8#



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

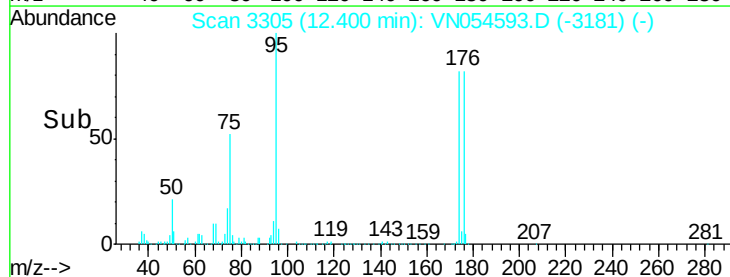
150000

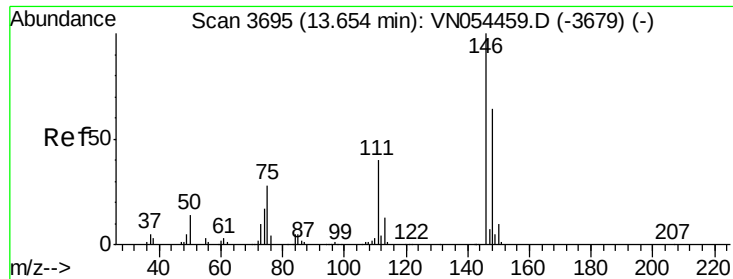
100000

50000

0

Time--> 12.30 12.40 12.50





#91

1,2-Dichlorobenzene

Concen: 0.438 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN054593.D

Acq: 23 Mar 2019 8:18

Instrument :

MSVOA_N

ClientSampleId :

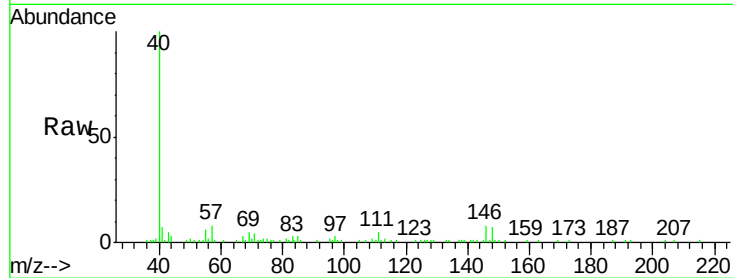
Tot Ion:146 Resp: 4478

Ion Ratio Lower Upper

146 100

111 19.5 19.1 57.3

148 86.4 32.4 97.0



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

