

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054729.D
 Acq On : 27 Mar 2019 18:21
 Operator : JC/SP
 Sample : K2105-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

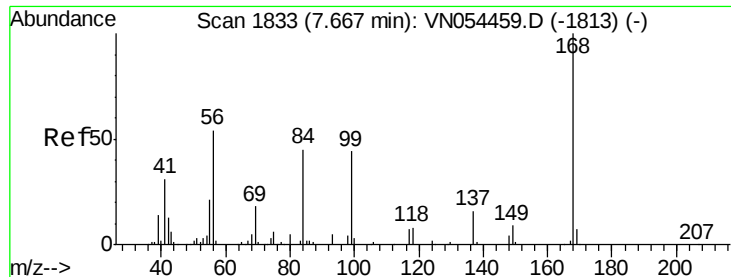
Quant Time: Mar 28 04:38:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	545696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	880577	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	729225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	256082	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	357778	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
35) Dibromofluoromethane	7.59	113	284528	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	10.09	98	1036080	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
62) 4-Bromofluorobenzene	12.40	95	310401	42.77	ug/l	0.00
Spiked Amount			Recovery	=	85.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.42	74	16501	4.958	ug/l	69
13) Acrolein	3.60	56	207	0.365	ug/l #	68
14) Allyl chloride	4.55	41	13057	1.317	ug/l #	22
16) Acetone	3.83	43	15470	7.581	ug/l #	73
18) Methyl Acetate	4.33	43	2157	0.474	ug/l #	83
20) Methylene Chloride	4.55	84	306806	51.002	ug/l #	84
25) 2-Butanone	6.87	43	1949	0.746	ug/l #	87
29) Tetrahydrofuran	7.23	42	730	0.430	ug/l #	56
31) Cyclohexane	7.66	56	11478	Below Cal	#	18
36) 1,1-Dichloropropene	7.66	75	41134	4.996	ug/l #	48
38) Carbon Tetrachloride	7.66	117	50672	6.333	ug/l #	16
43) Isopropyl Acetate	8.17	43	15306	1.548	ug/l #	94
48) Methyl methacrylate	9.18	41	8747	1.630	ug/l #	11
49) 1,4-Dioxane	9.28	88	31	0.517	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9048	1.651	ug/l #	36
53) t-1,3-Dichloropropene	10.11	75	31	2.236	ug/l #	1
54) cis-1,3-Dichloropropene	9.91	75	49628	5.530	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	9905	1.095	ug/l #	43
59) 2-Hexanone	10.77	43	158856	44.372	ug/l #	47
71) Bromoform	12.40	173	2495	2.870	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	160786	39.567	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160786	130.921	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	6370	0.384	ug/l	99
95) Naphthalene	15.13	128	52291	5.725	ug/l	98

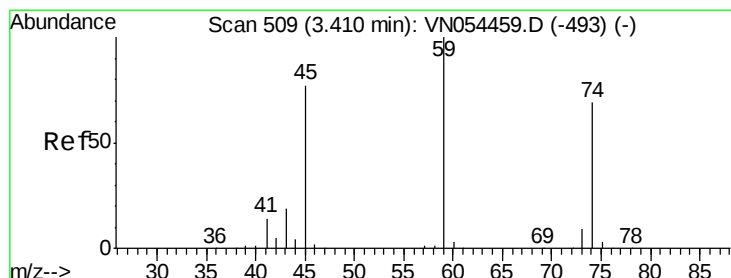
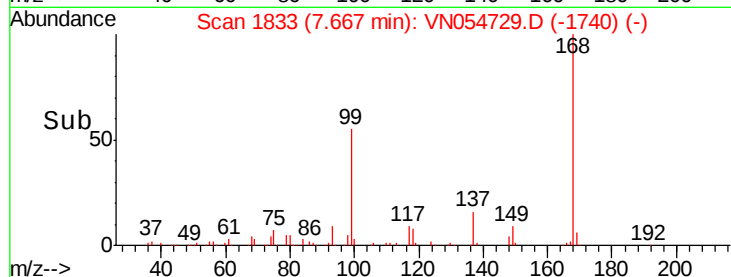
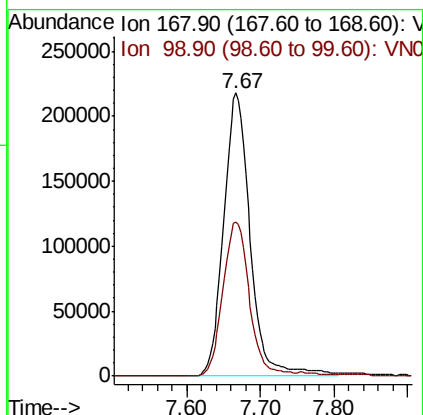
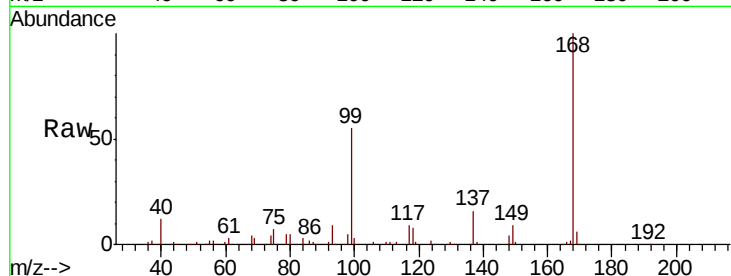
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

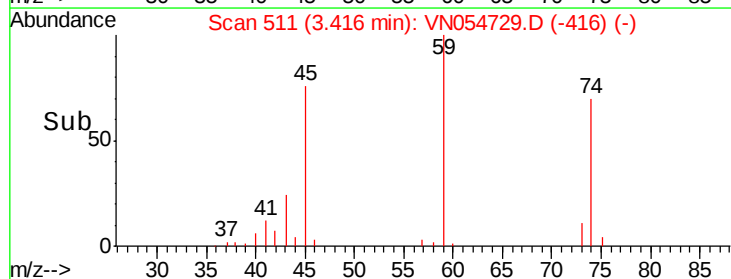
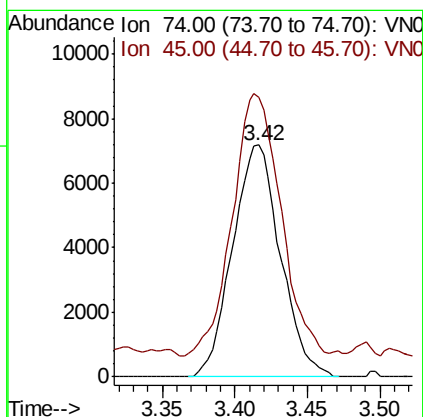
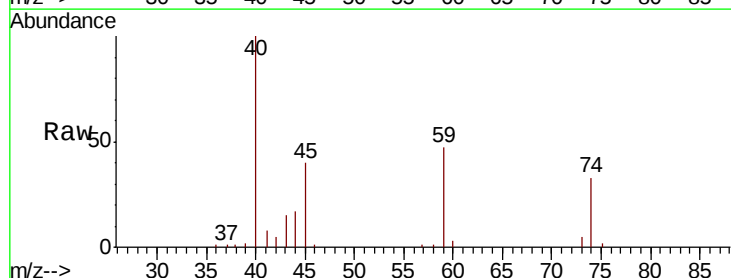
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MSVOA_N
ClientSampleId :

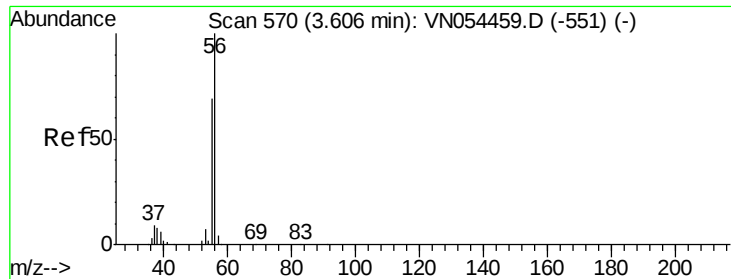
Tot Ion:168 Resp: 545696
Ion Ratio Lower Upper
168 100
99 54.6 37.1 55.7



#8
Diethyl Ether
Concen: 4.958 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.01 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

Tgt Ion: 74 Resp: 16501
Ion Ratio Lower Upper
74 100
45 114.9 43.1 129.4





#13

Acrolein

Concen: 0.365 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :

MSVOA_N

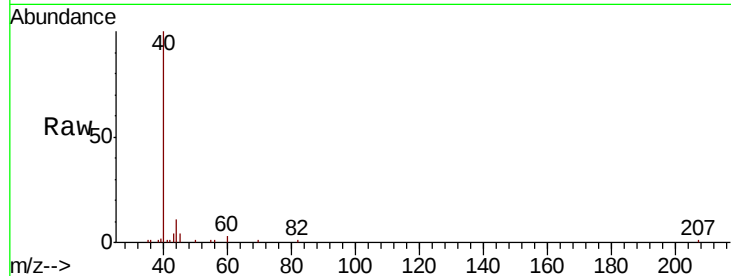
ClientSampled :

Tot Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 97.6 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

250

200

150

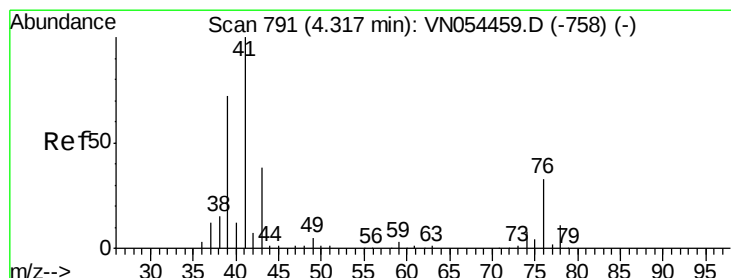
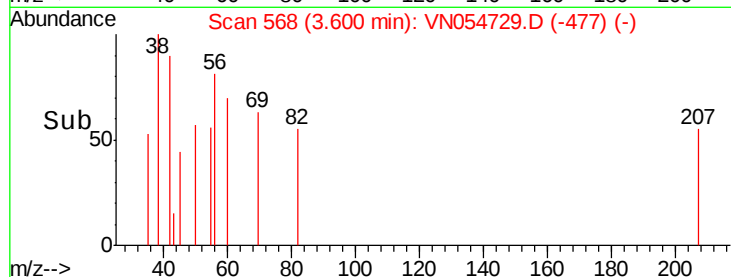
100

50

0

3.58 3.59 3.60 3.61 3.62

Time-->



#14

Allyl chloride

Concen: 1.317 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.23 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

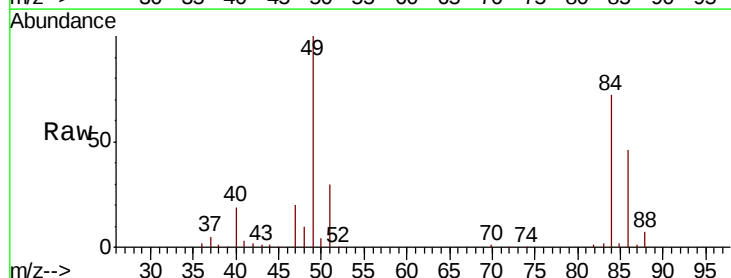
Tgt Ion: 41 Resp: 13057

Ion Ratio Lower Upper

41 100

39 1.1 58.2 87.4#

76 0.0 31.7 47.5#



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

6000

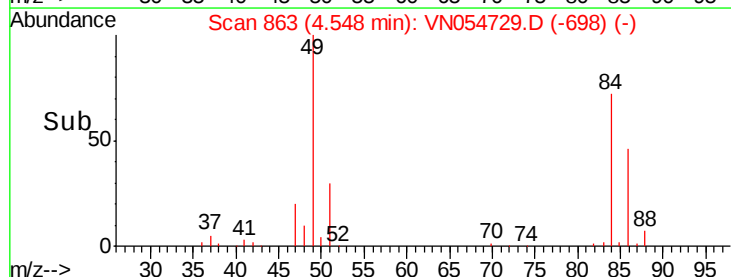
4000

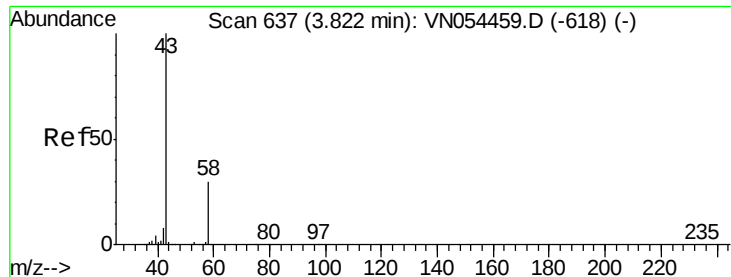
2000

0

4.45 4.50 4.55 4.60

Time-->

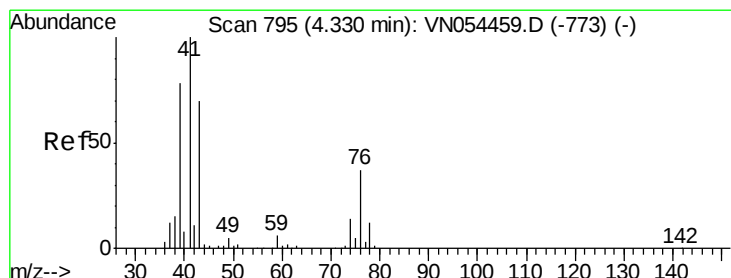
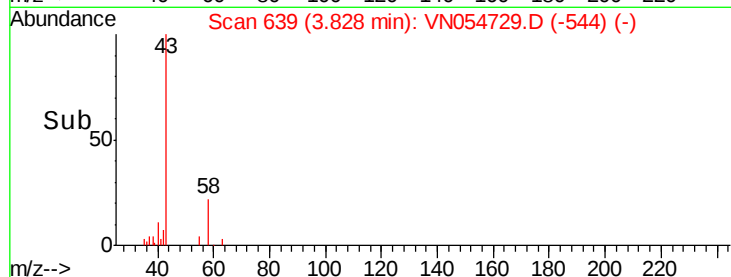
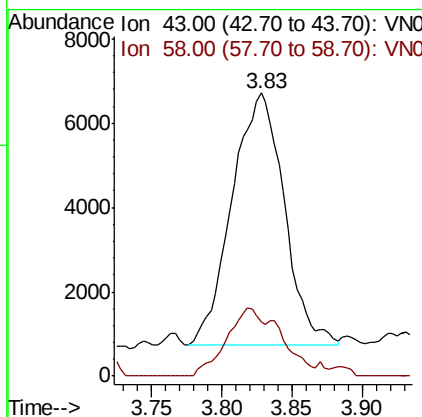
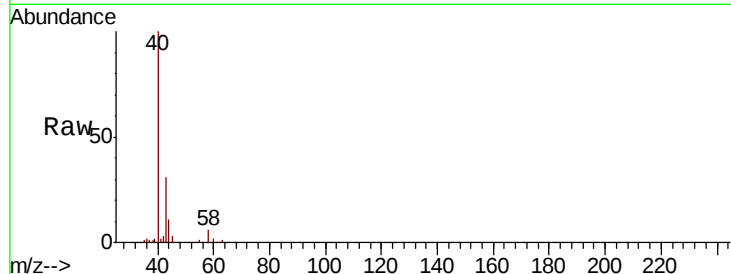




#16
Acetone
Concen: 7.581 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

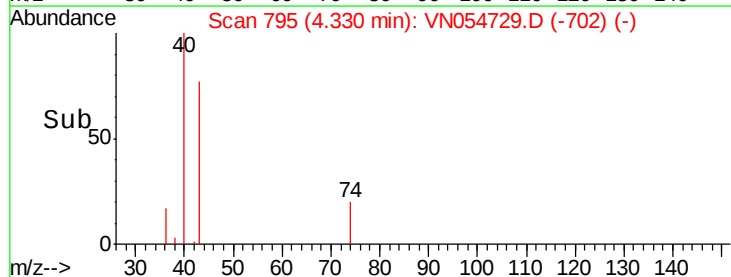
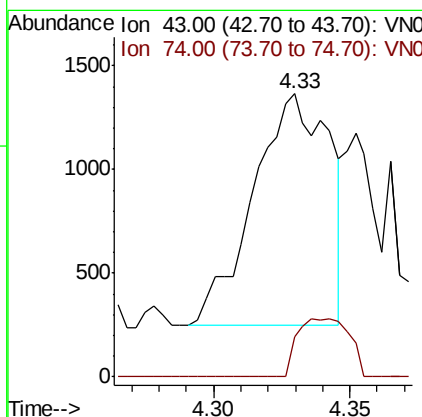
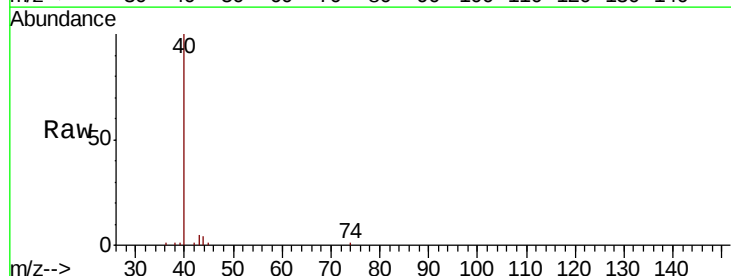
Instrument :
MSVOA_N
ClientSampleId :

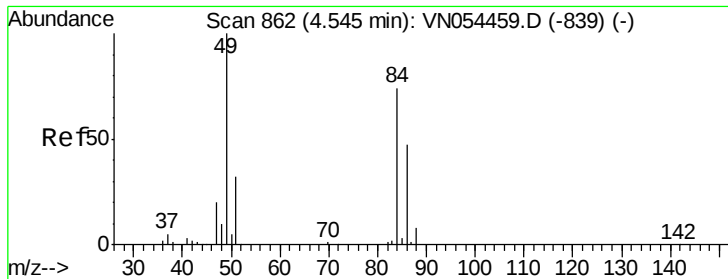
Tot Ion: 43 Resp: 15470
Ion Ratio Lower Upper
43 100
58 21.5 29.9 44.9#



#18
Methyl Acetate
Concen: 0.474 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

Tgt Ion: 43 Resp: 2157
Ion Ratio Lower Upper
43 100
74 17.1 20.8 31.2#

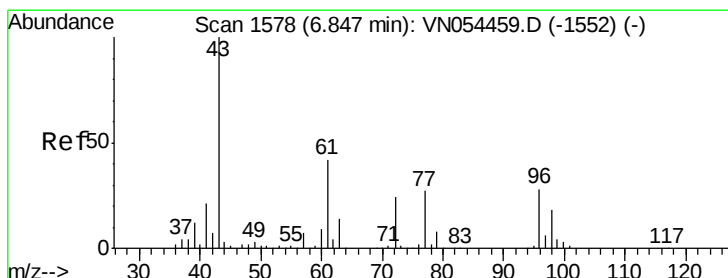
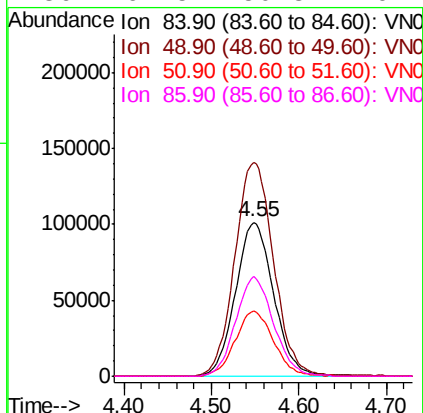
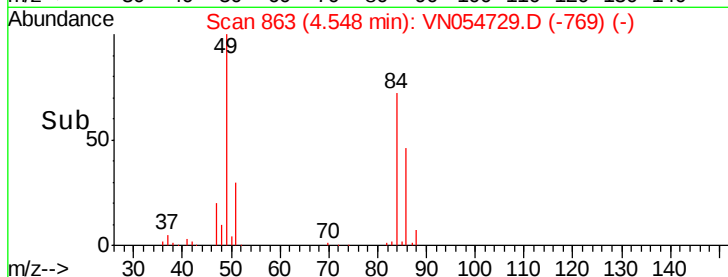
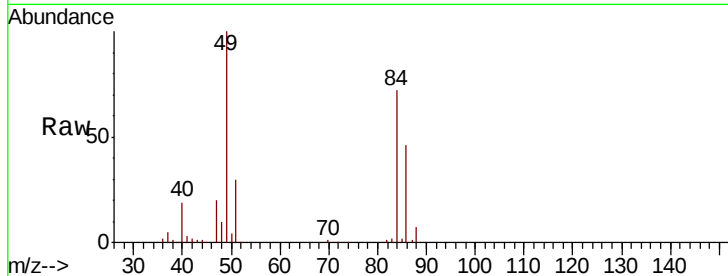




#20
Methylene Chloride
Concen: 51.002 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

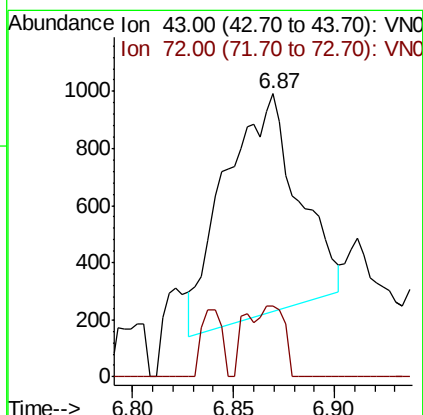
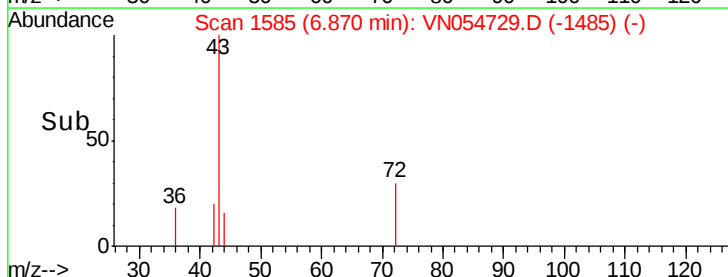
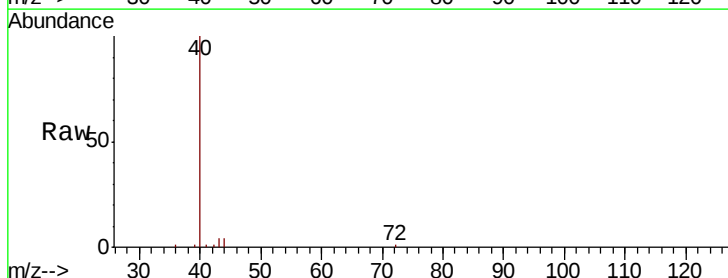
Instrument :
MSVOA_N
ClientSampled :

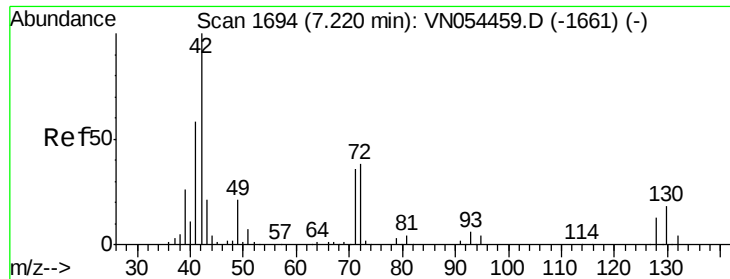
Tot Ion: 84 Resp: 306806
Ion Ratio Lower Upper
84 100
49 138.6 89.7 134.5#
51 42.2 28.2 42.4
86 64.5 50.8 76.2



#25
2-Butanone
Concen: 0.746 ug/l
RT: 6.87 min Scan# 1585
Delta R.T. 0.02 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

Tgt Ion: 43 Resp: 1949
Ion Ratio Lower Upper
43 100
72 35.7 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.430 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

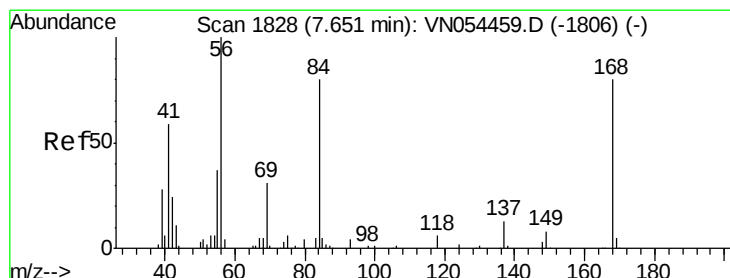
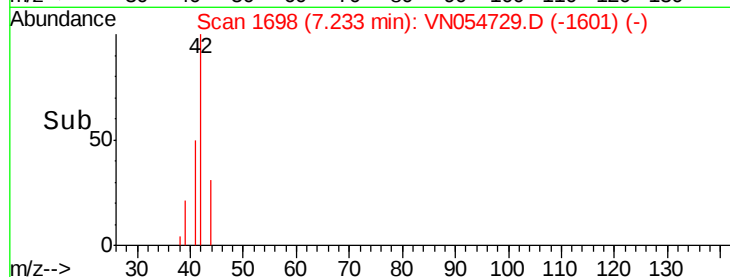
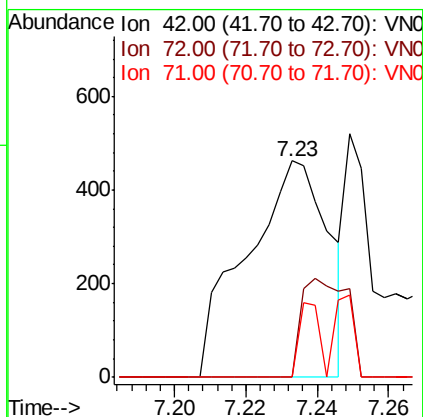
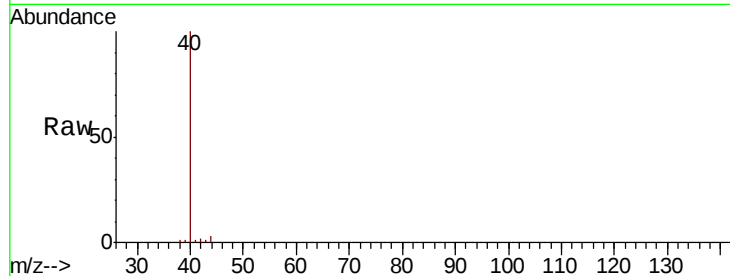
Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 730

Ion	Ratio	Lower	Upper
42	100		
72	25.6	37.8	56.6#
71	8.2	36.2	54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

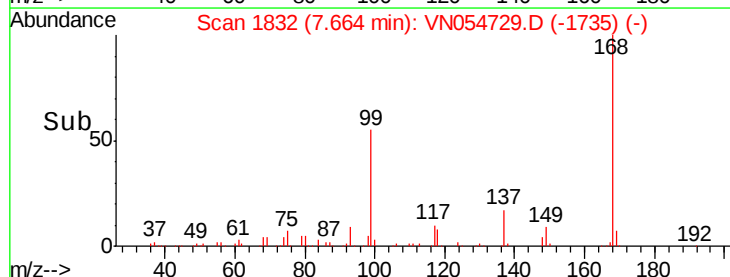
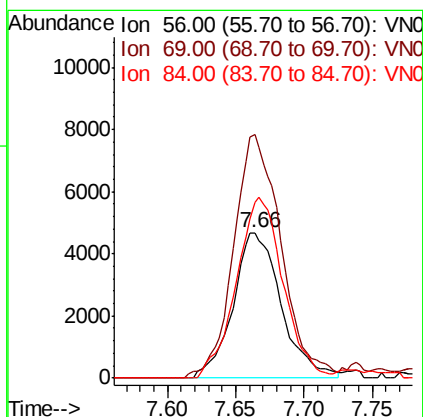
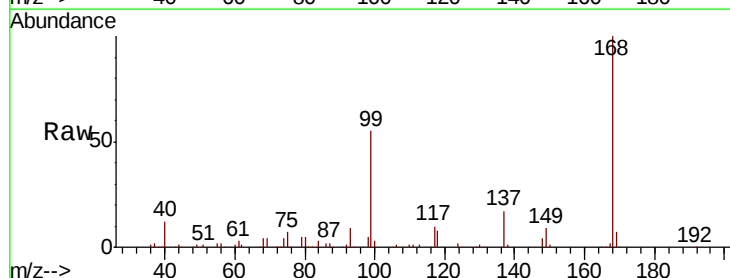
Delta R.T. 0.01 min

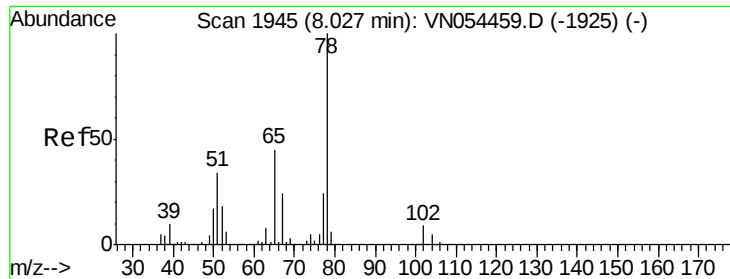
Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Tgt Ion: 56 Resp: 11478

Ion	Ratio	Lower	Upper
56	100		
69	164.5	27.8	41.6#
84	121.3	74.6	111.8#

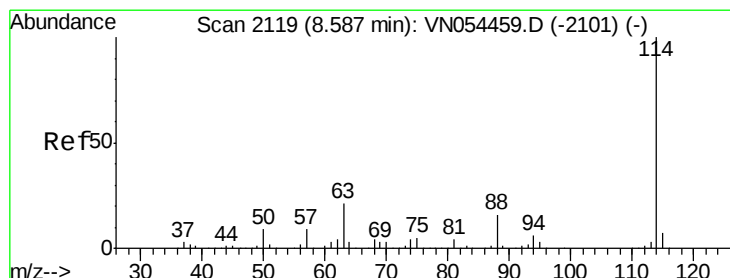
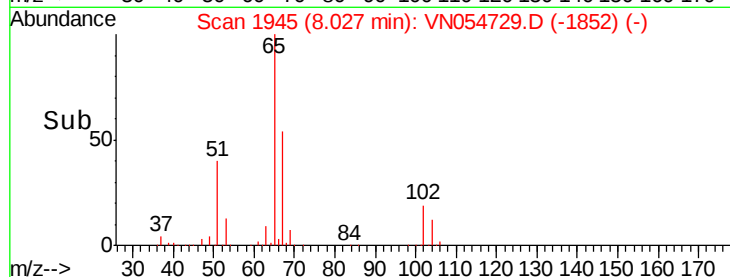
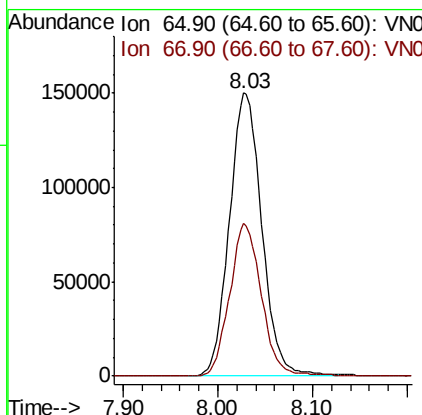
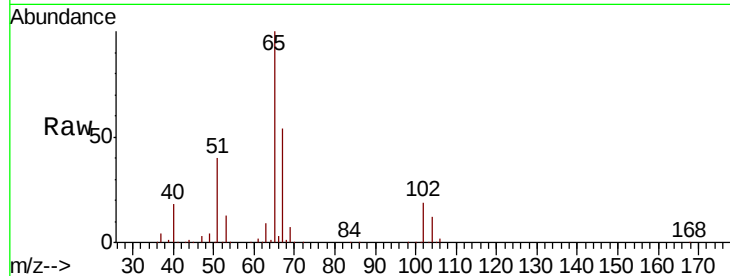




#33
 1,2-Dichloroethane-d4
 Concen: 52.711 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

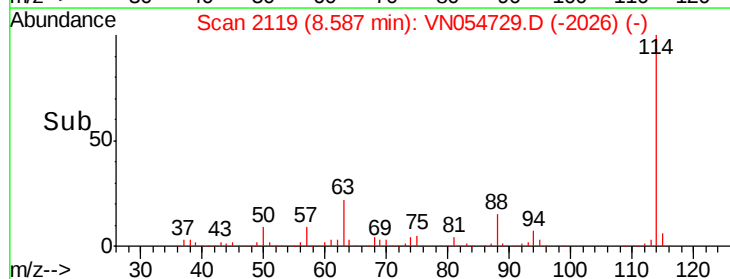
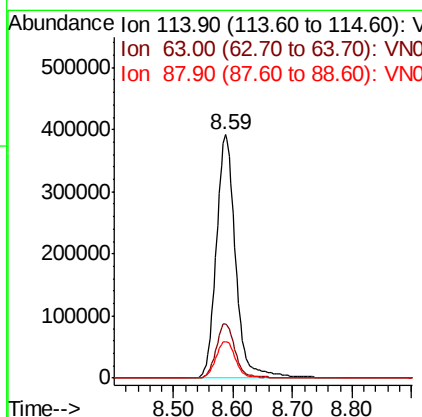
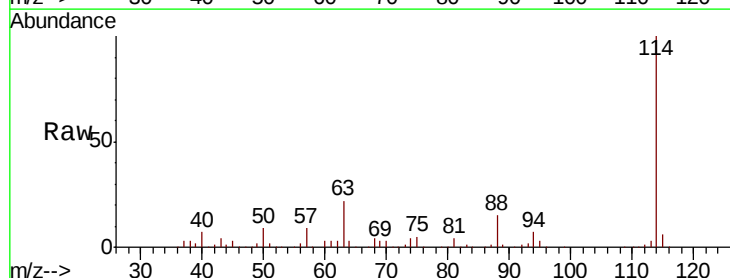
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 ClientSampleId :

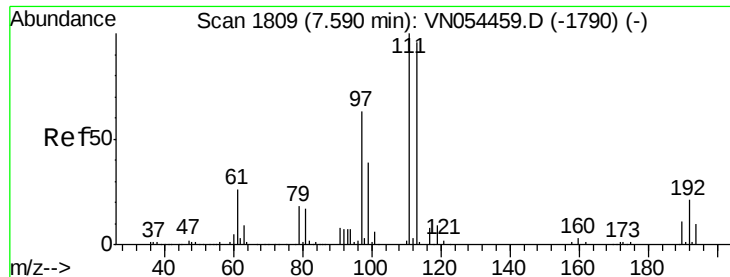
Tot Ion: 65 Resp: 357778
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

Tgt Ion: 114 Resp: 880577
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 35.2
 88 15.2 0.0 30.2

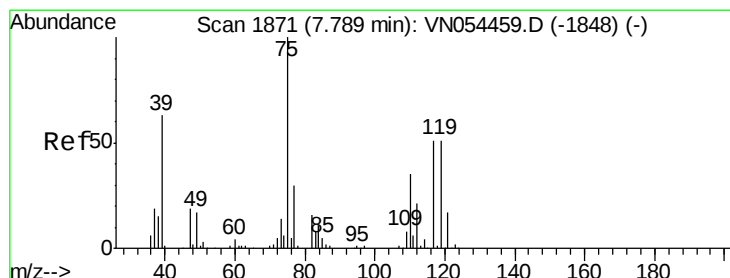
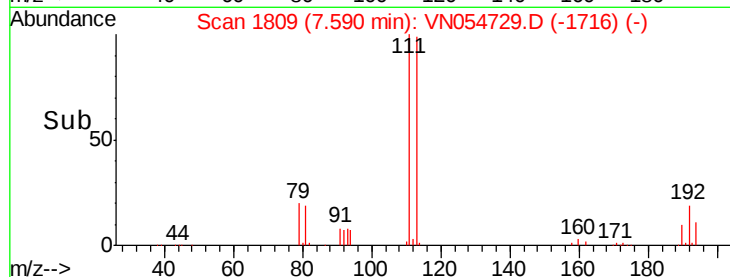
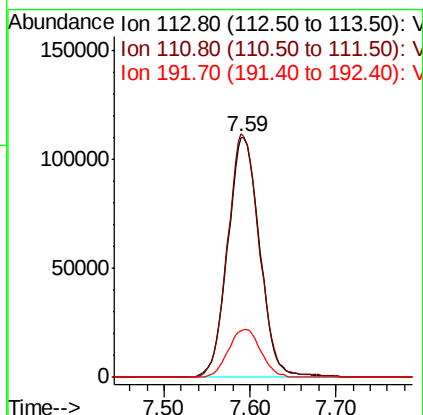
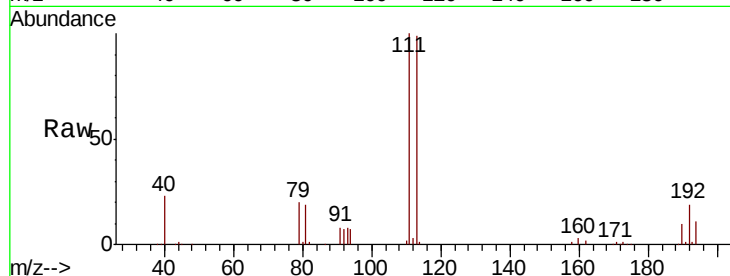




#35
 Dibromofluoromethane
 Concen: 50.154 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

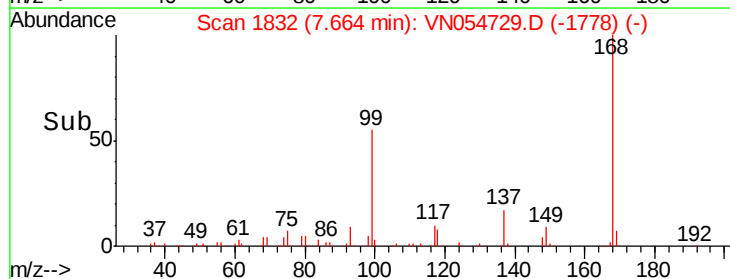
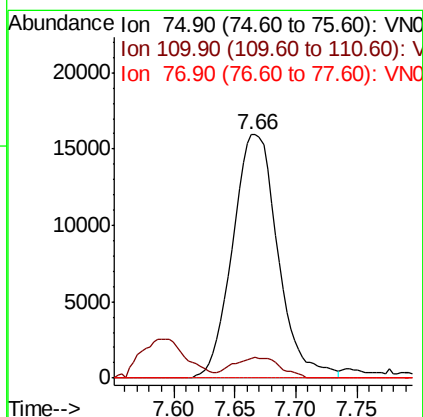
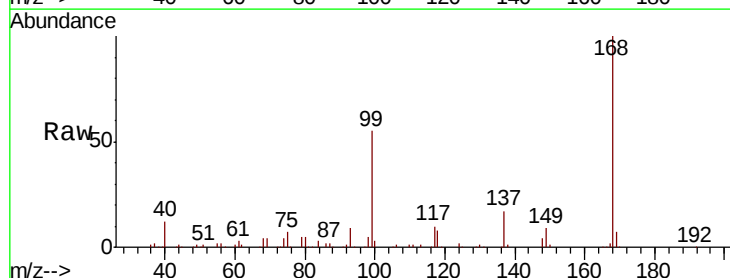
Instrument :
 MSVOA_N
 ClientSampleId :

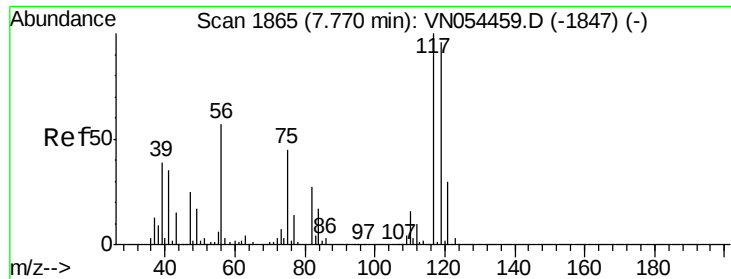
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.2	123.4
192	20.5	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.996 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.333 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :

MSVOA_N

ClientSampled :

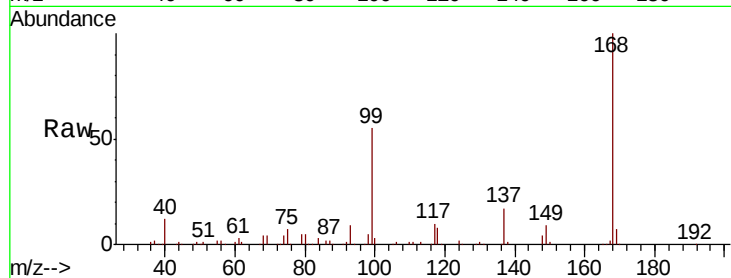
Tot Ion:117 Resp: 50672

Ion Ratio Lower Upper

117 100

119 5.2 76.3 114.5#

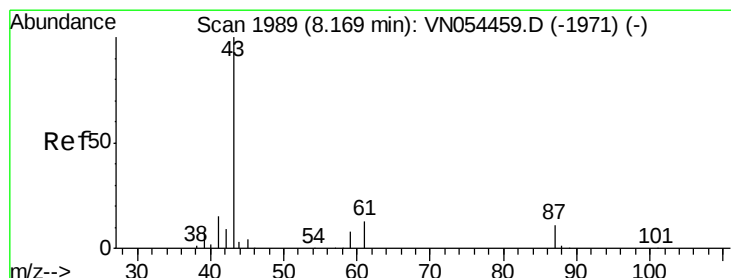
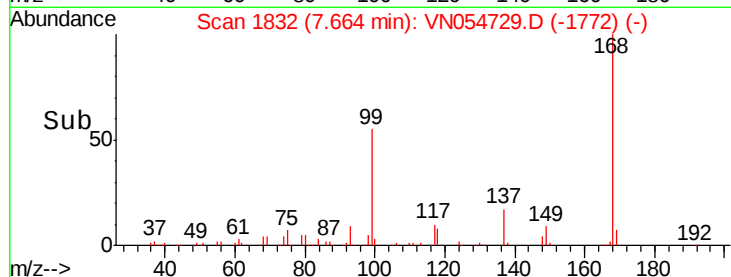
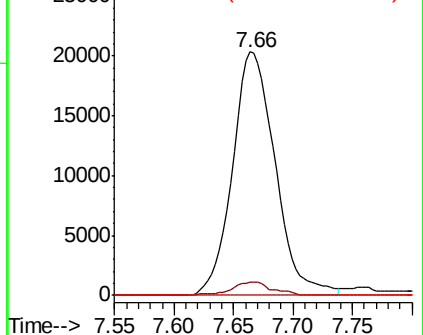
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 1.548 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

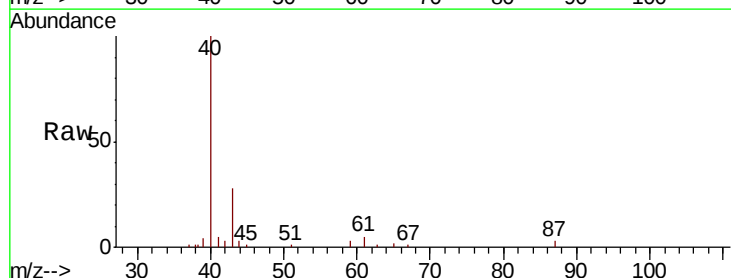
Tgt Ion: 43 Resp: 15306

Ion Ratio Lower Upper

43 100

61 18.5 15.8 23.8

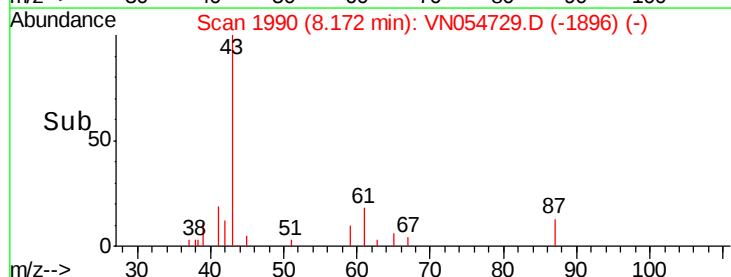
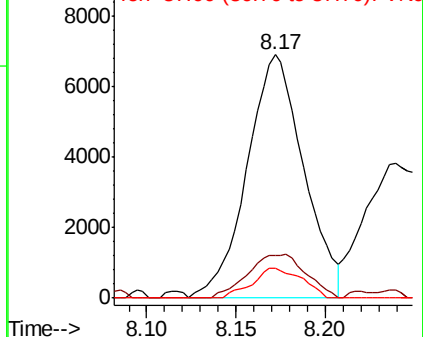
87 10.8 12.0 18.0#

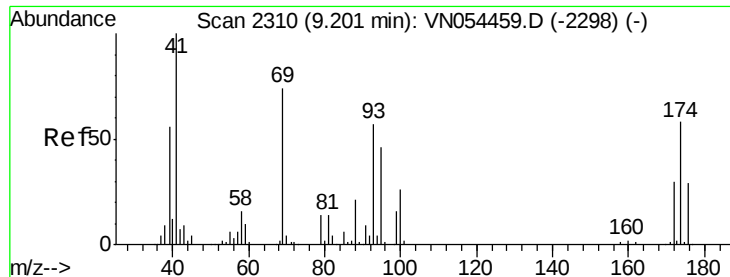


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

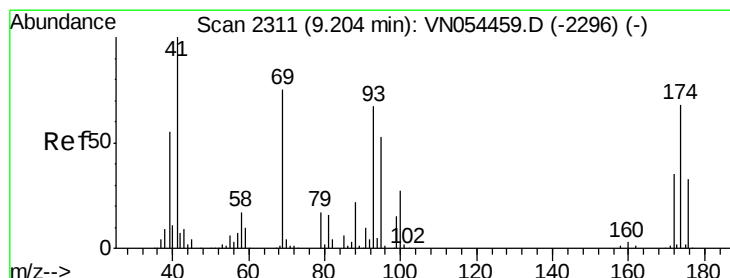
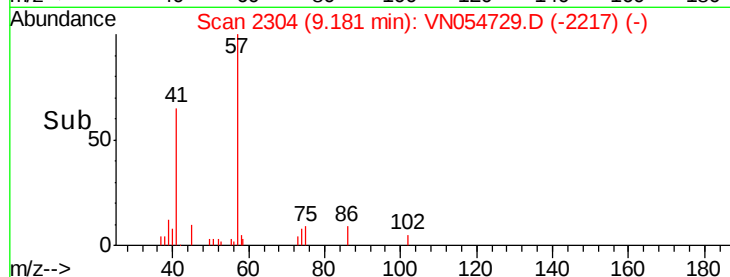
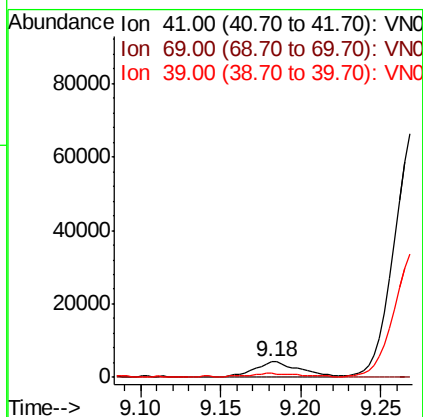
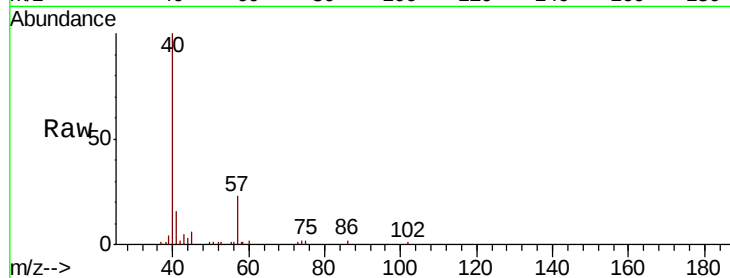




#48
Methvl methacrylate
Concen: 1.630 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

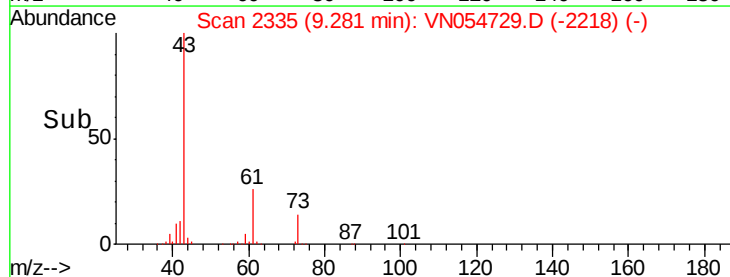
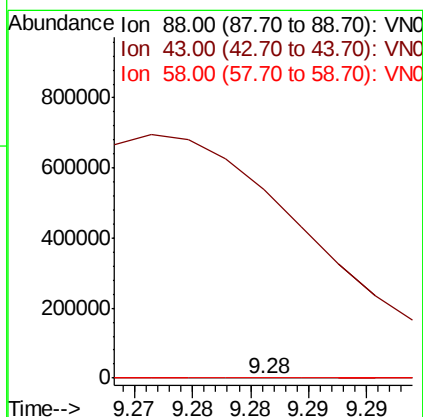
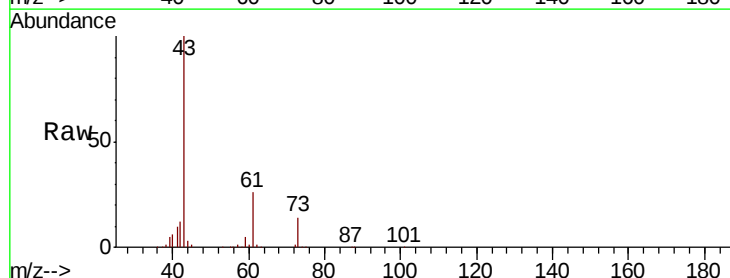
Instrument :
MSVOA_N
ClientSampled :

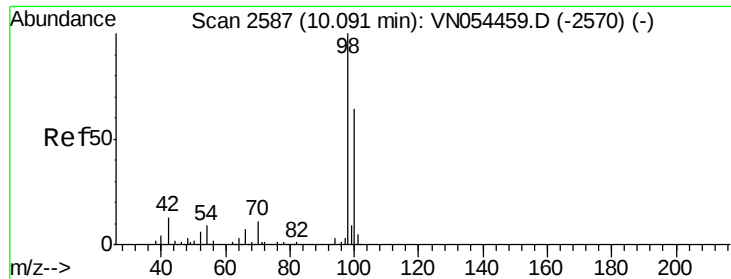
Tot Ion: 41 Resp: 8747
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 0.517 ug/l
RT: 9.28 min Scan# 2335
Delta R.T. 0.08 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 4402471.0 24.1 36.1#
58 17961.3 50.8 76.2#

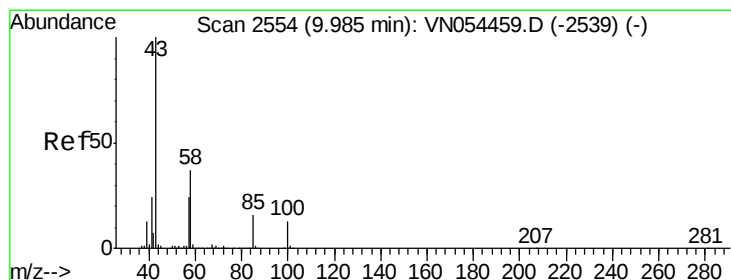
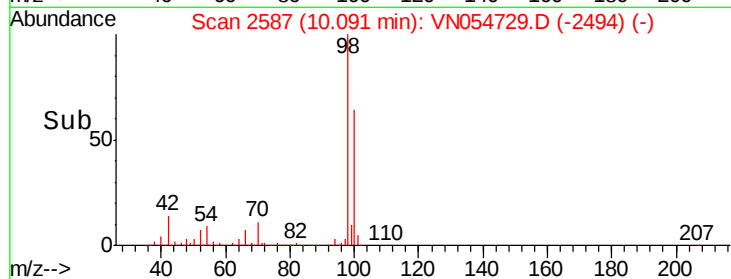
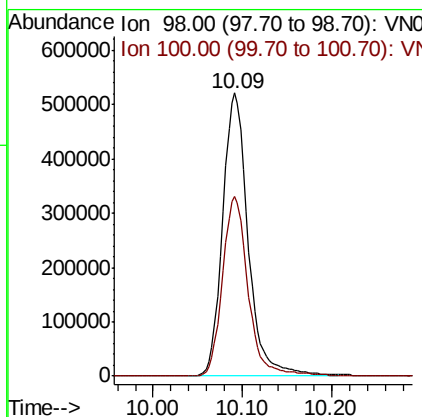
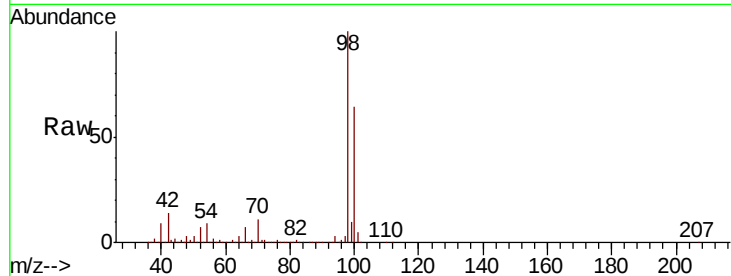




#50
Toluene-d8
Concen: 48.580 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

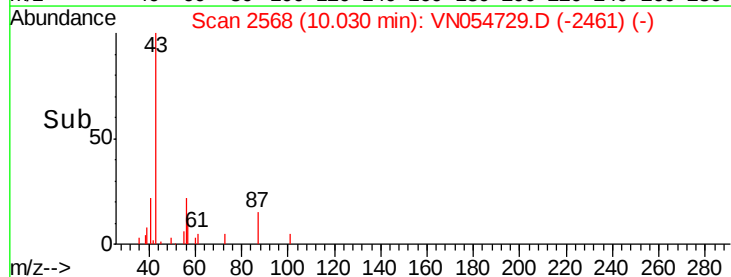
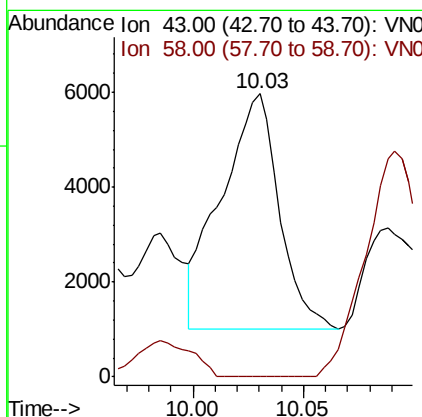
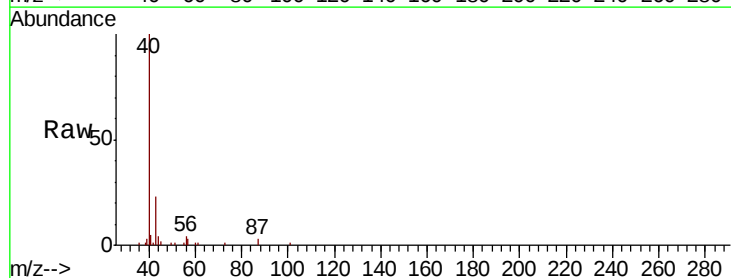
Instrument :
MSVOA_N
ClientSampled :

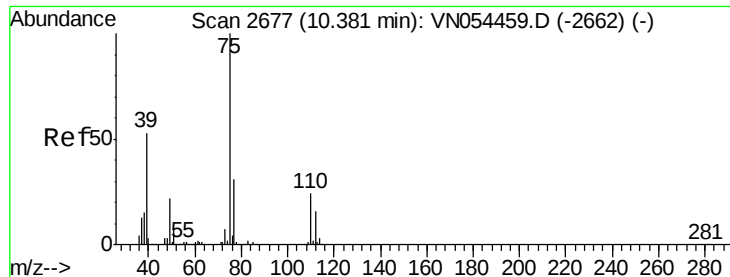
Tot Ion: 98 Resp: 1036080
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.651 ug/l
RT: 10.03 min Scan# 2568
Delta R.T. 0.04 min
Lab File: VN054729.D
Acq: 27 Mar 2019 18:21

Tgt Ion: 43 Resp: 9048
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.11 min Scan# 2592

Delta R.T. -0.27 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :

MSVOA_N

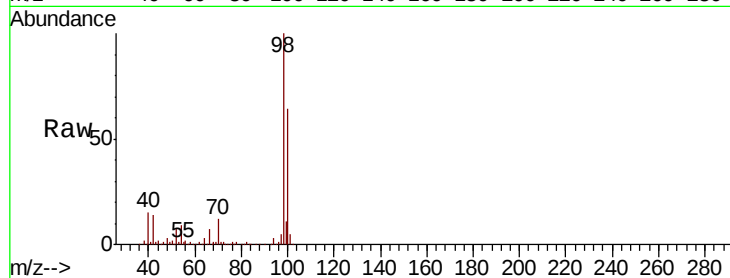
ClientSampled :

Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

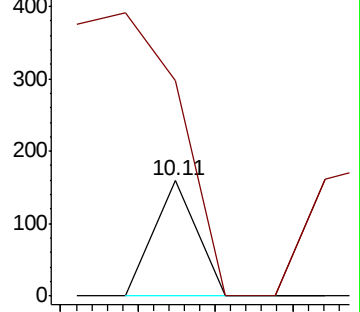
75 100

77 186.8 25.8 38.8#

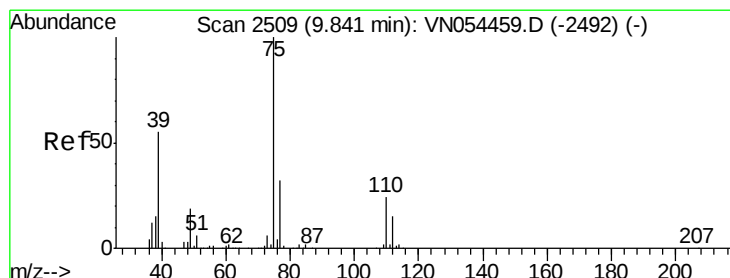
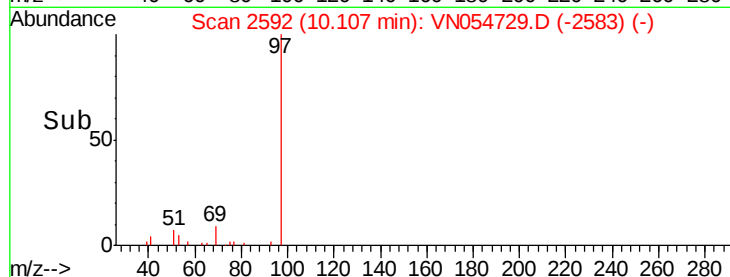


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.530 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

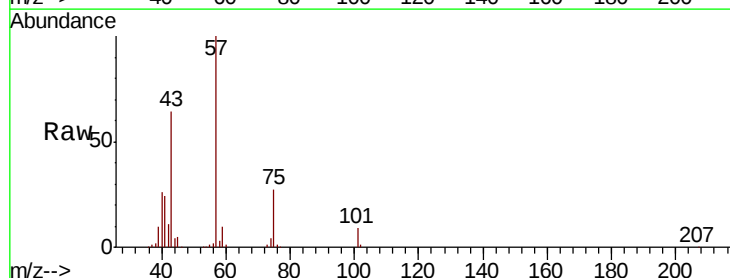
Tgt Ion: 75 Resp: 49628

Ion Ratio Lower Upper

75 100

77 0.6 25.4 38.0#

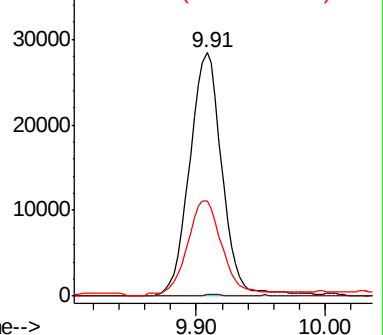
39 37.9 37.2 55.8



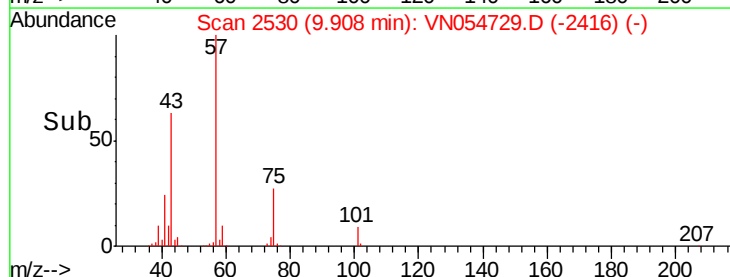
Abundance Ion 74.90 (74.60 to 75.60): VN0

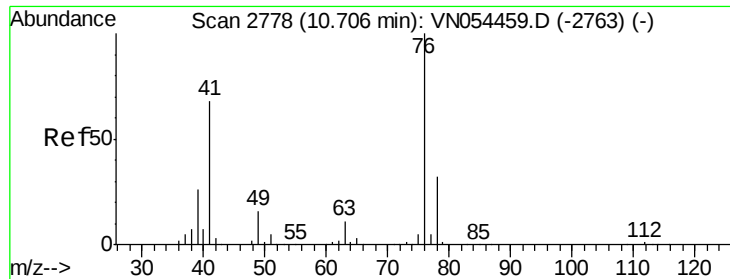
Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->

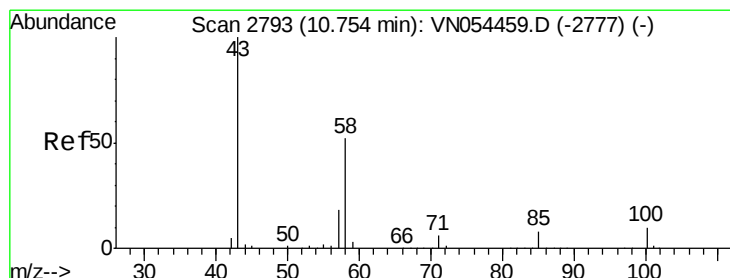
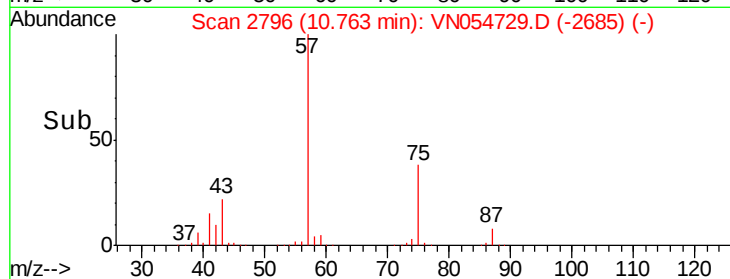
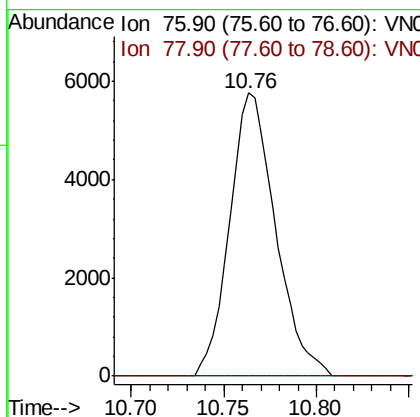
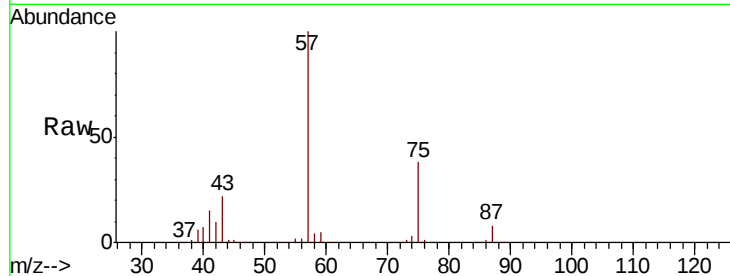




#57
 1,3-Dichloropropane
 Concen: 1.095 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

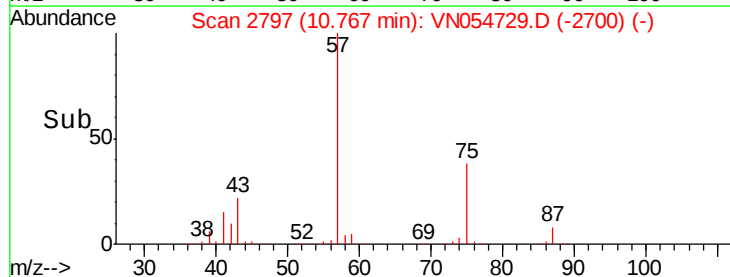
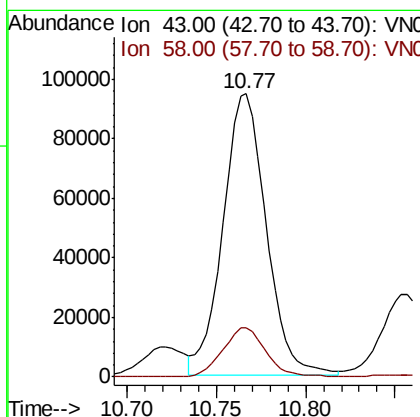
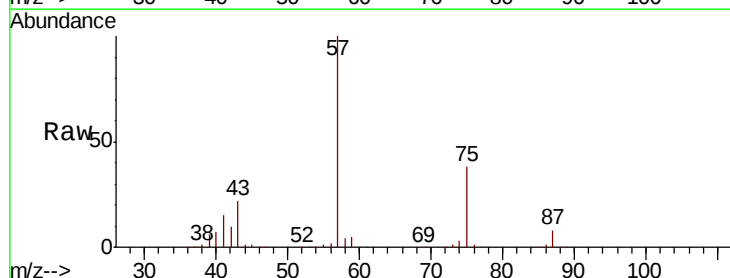
Instrument :
 MSVOA_N
 ClientSampleId :

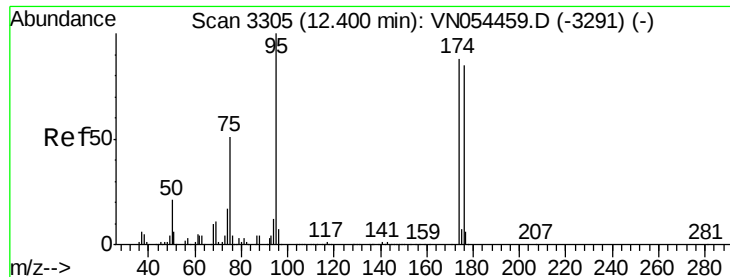
Tot Ion: 76 Resp: 9905
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 44.372 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

Tgt Ion: 43 Resp: 158856
 Ion Ratio Lower Upper
 43 100
 58 17.6 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 42.771 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :

MSVOA_N

ClientSampled :

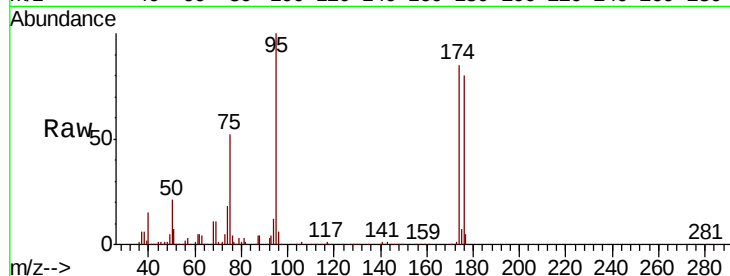
Tot Ion: 95 Resp: 310401

Ion Ratio Lower Upper

95 100

174 85.4 0.0 191.0

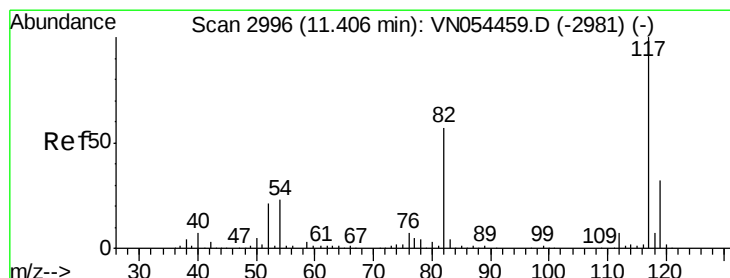
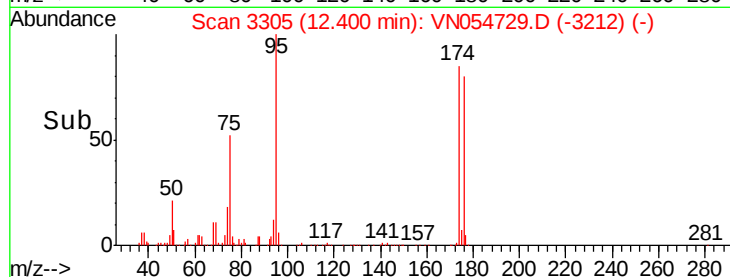
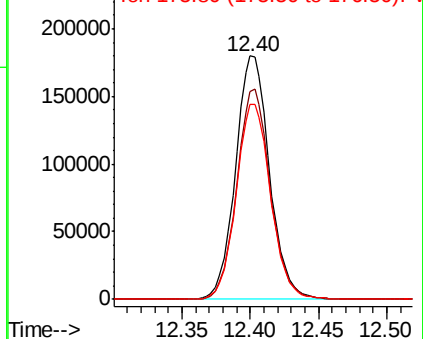
176 81.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054729.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054729.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054729.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

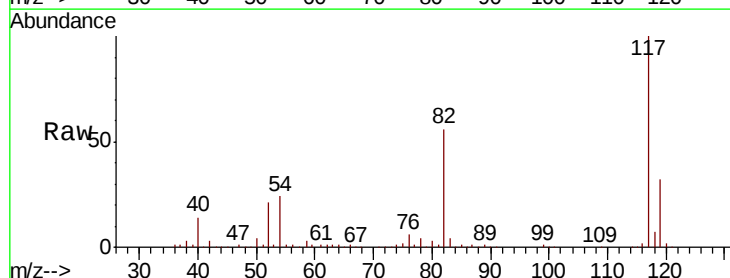
Tgt Ion: 117 Resp: 729225

Ion Ratio Lower Upper

117 100

82 55.9 40.0 60.0

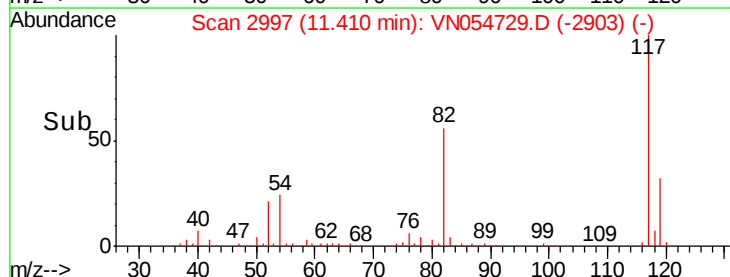
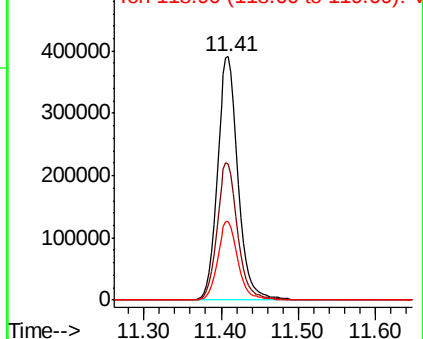
119 32.2 25.8 38.6

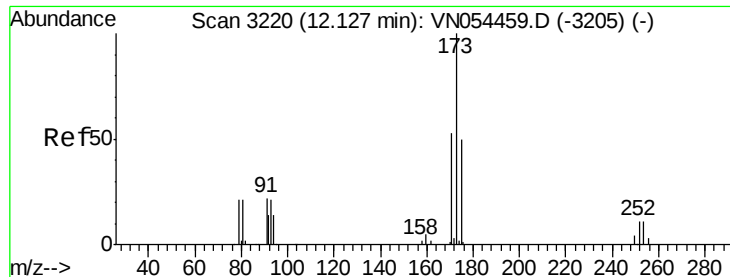


Abundance Ion 116.90 (116.60 to 117.60): VN054729.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054729.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054729.D (-2903) (-)





#71

Bromoform

Concen: 2.870 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :

MSVOA_N

ClientSampleId :

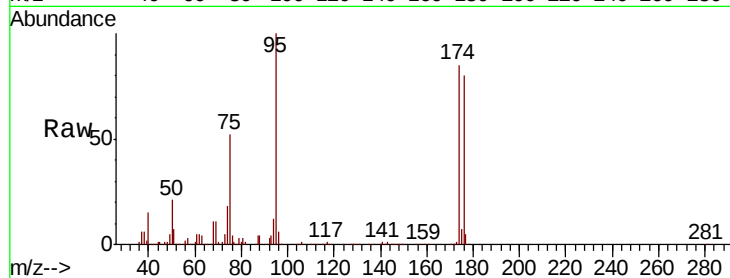
Tot Ion:173 Resp: 2495

Ion Ratio Lower Upper

173 100

175 706.7 24.4 73.2#

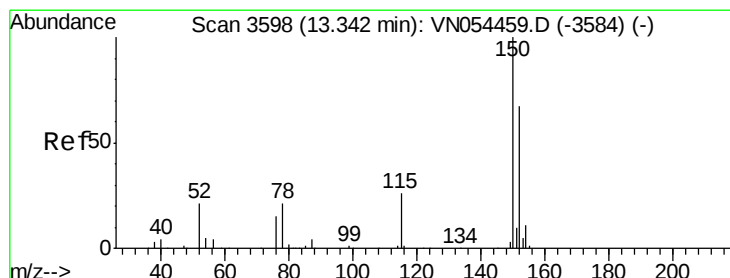
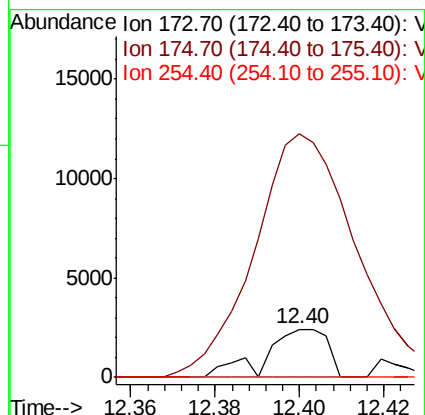
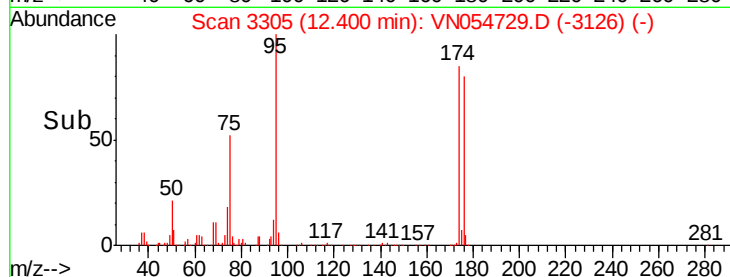
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

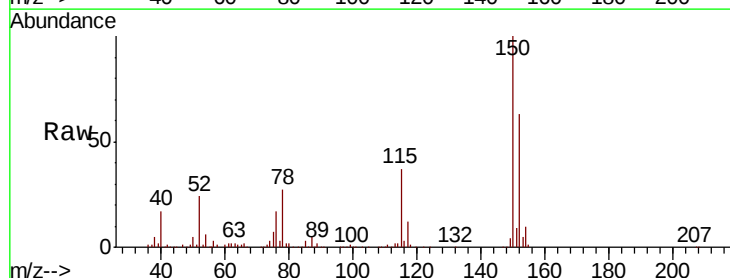
Tgt Ion:152 Resp: 256082

Ion Ratio Lower Upper

152 100

115 58.7 27.2 81.6

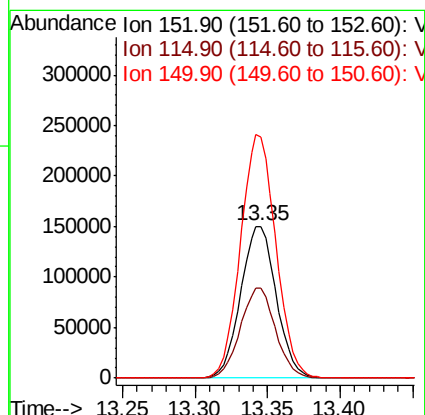
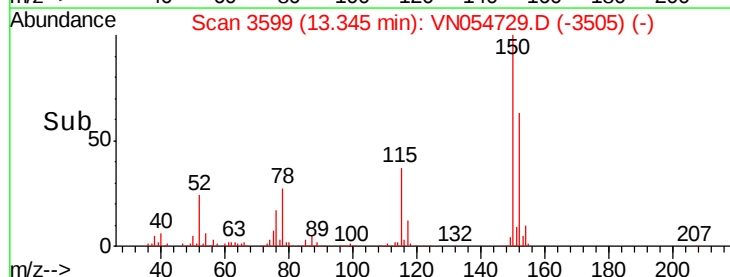
150 159.2 0.0 349.2

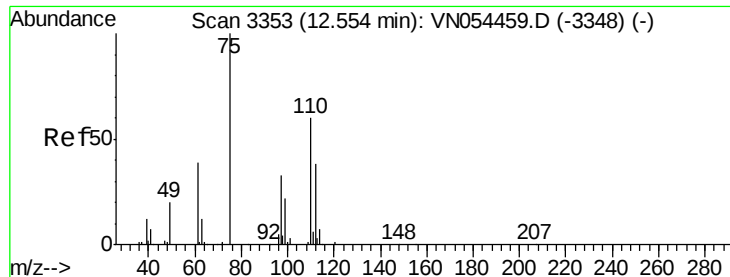


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.567 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

Instrument :

MSVOA_N

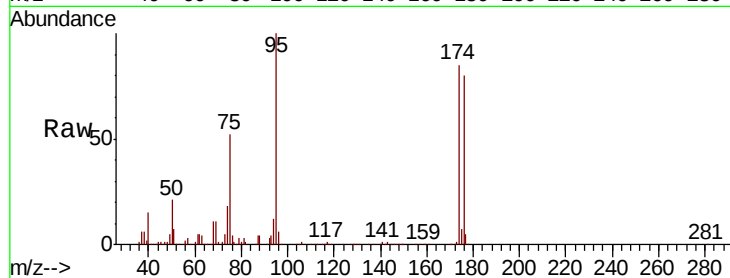
ClientSampled :

Tot Ion: 75 Resp: 160786

Ion Ratio Lower Upper

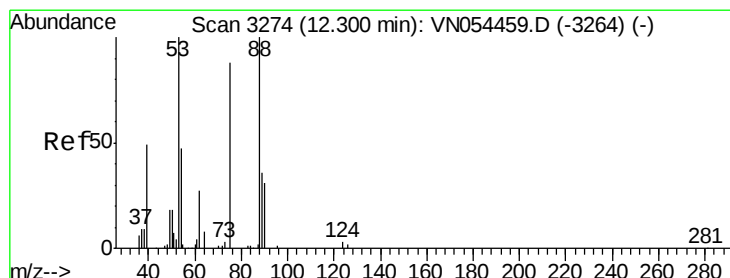
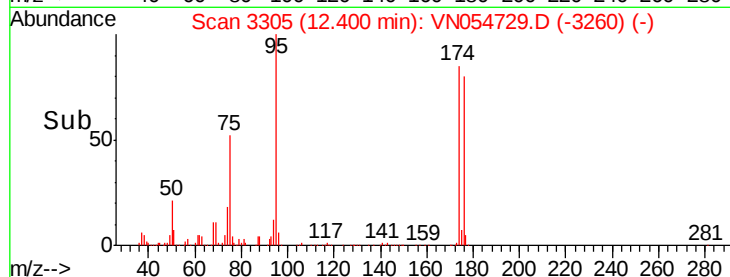
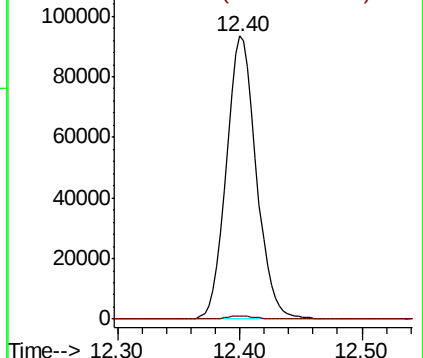
75 100

77 1.0 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: 130.921 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054729.D

Acq: 27 Mar 2019 18:21

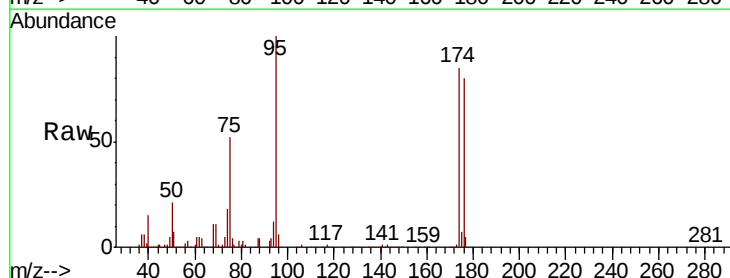
Tgt Ion: 75 Resp: 160786

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

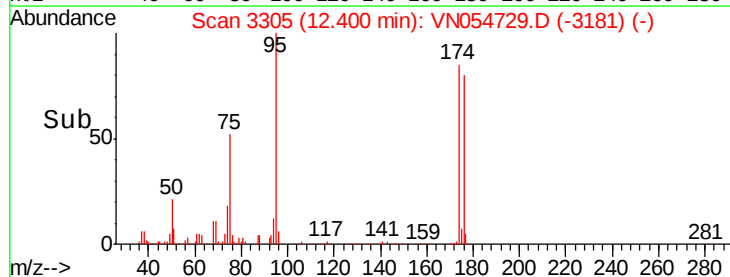
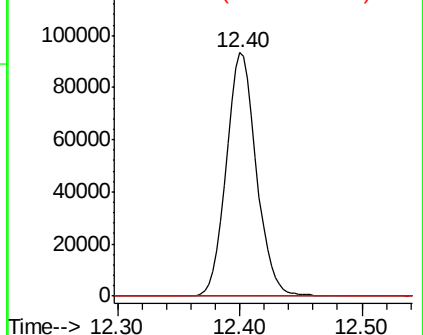
89 0.0 39.2 58.8#

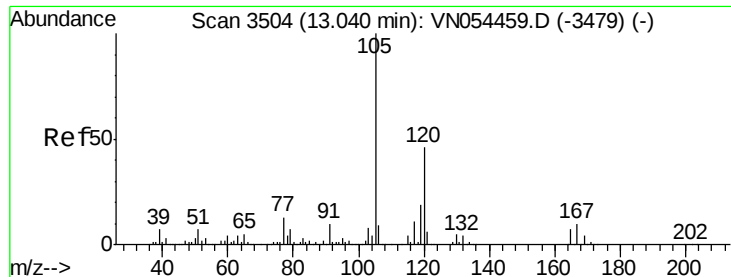


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

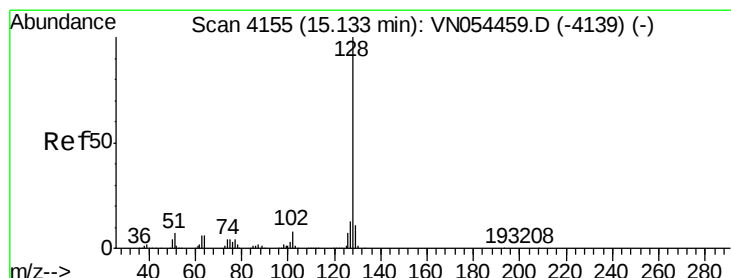
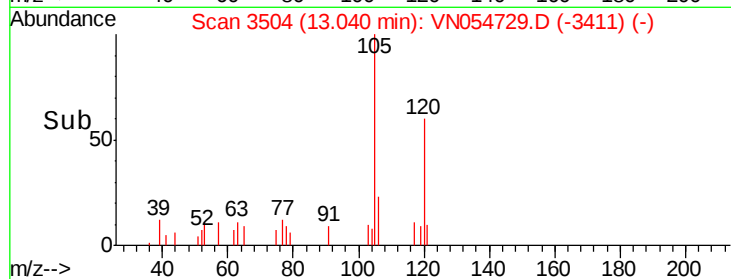
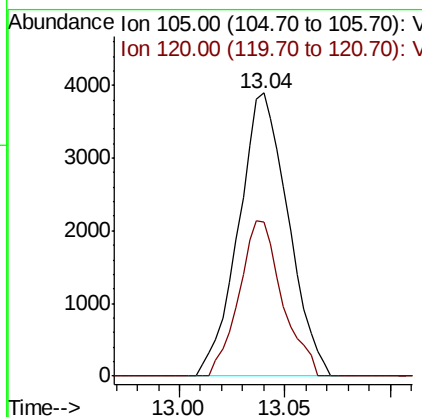
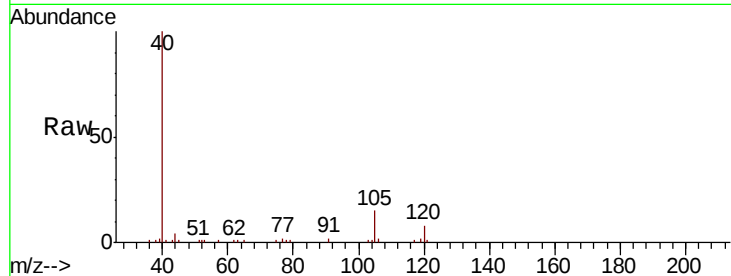




#84
 1,2,4-Trimethylbenzene
 Concen: 0.384 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:105 Resp: 6370
 Ion Ratio Lower Upper
 105 100
 120 47.5 23.4 70.3



#95
 Naphthalene
 Concen: 5.725 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN054729.D
 Acq: 27 Mar 2019 18:21

Tgt Ion:128 Resp: 52291
 Ion Ratio Lower Upper
 128 100
 127 13.6 10.1 15.1
 129 10.6 8.7 13.1

