

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056814.D
 Acq On : 18 Jul 2019 16:04
 Operator : JC/SP
 Sample : K3892-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T-1

Quant Time: Jul 19 05:36:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

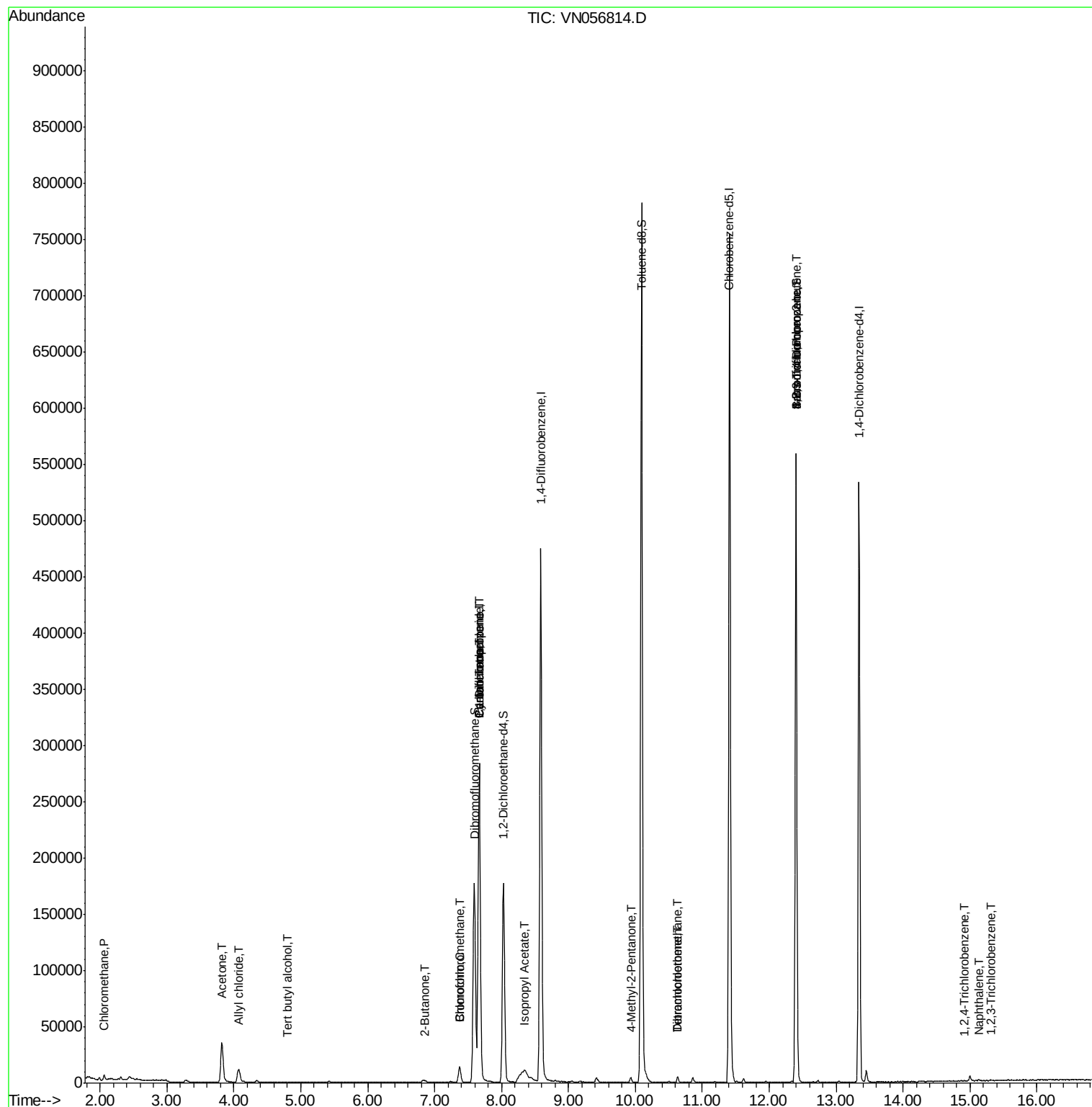
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	254812	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	460913	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	477124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157310	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	150385	53.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.72%	
35) Dibromofluoromethane	7.59	113	138008	48.11	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.22%	
50) Toluene-d8	10.09	98	580546	52.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.80%	
62) 4-Bromofluorobenzene	12.40	95	202310	54.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.30%	
Target Compounds				Qvalue		
3) Chloromethane	2.06	50	4375	1.360	ug/l	91
11) Tert butyl alcohol	4.81	59	492	1.049	ug/l #	73
14) Allyl chloride	4.08	41	1120	0.270	ug/l #	29
16) Acetone	3.82	43	61684	47.491	ug/l	99
25) 2-Butanone	6.86	43	1794	0.945	ug/l	93
28) Bromochloromethane	7.36	49	1013	0.454	ug/l #	11
30) Chloroform	7.38	83	16036	3.380	ug/l	97
31) Cyclohexane	7.66	56	4067	0.903	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16733	3.923	ug/l #	48
38) Carbon Tetrachloride	7.67	117	22376	5.594	ug/l #	16
43) Isopropyl Acetate	8.34	43	27629	4.181	ug/l #	53
51) 4-Methyl-2-Pentanone	9.93	43	2926	0.684	ug/l #	35
60) Dibromochloromethane	10.63	129	1150	0.359	ug/l #	11
64) Tetrachloroethene	10.63	164	1158	0.281	ug/l #	82
71) Bromoform	12.40	173	1440	0.527	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	92798	26.971	ug/l #	100
79) 2-Chlorotoluene	12.59	91	225	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	92798	83.297	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	207	3.754	ug/l #	62
95) Naphthalene	15.13	128	1072	4.641	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	390	3.442	ug/l #	58

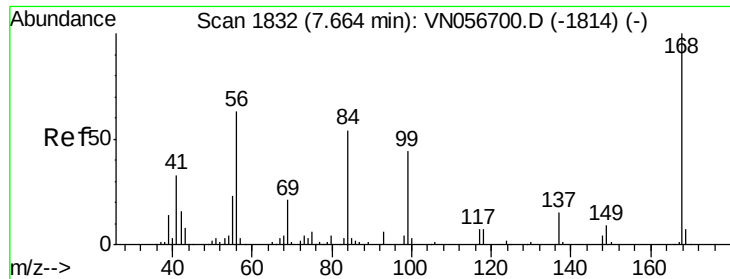
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :

MSVOA_N

ClientSampled :

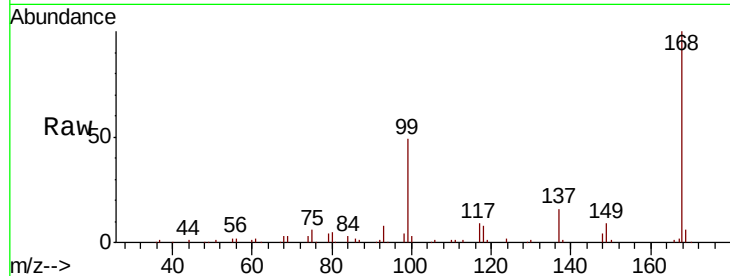
T-1

Tot Ion:168 Resp: 254812

Ion Ratio Lower Upper

168 100

99 49.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

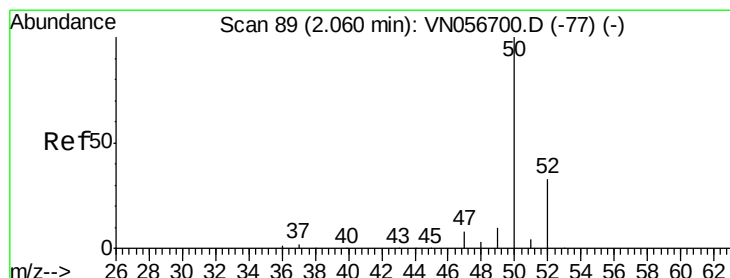
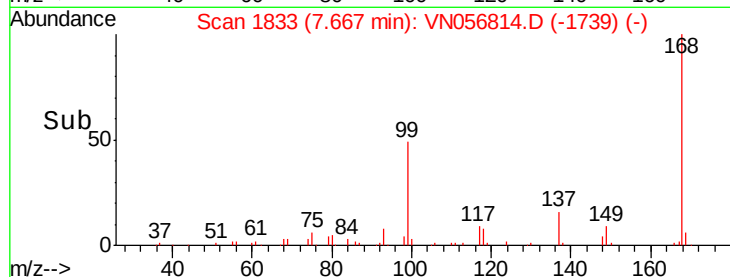
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 1.360 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056814.D

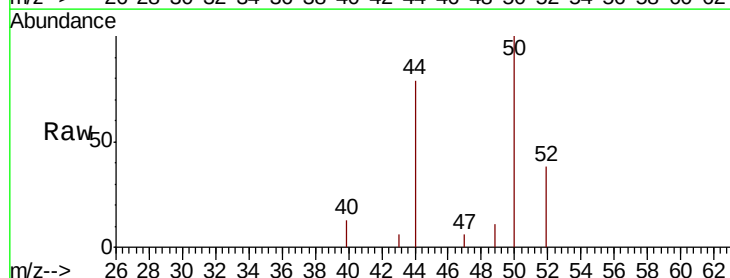
Acq: 18 Jul 2019 16:04

Tgt Ion: 50 Resp: 4375

Ion Ratio Lower Upper

50 100

52 38.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

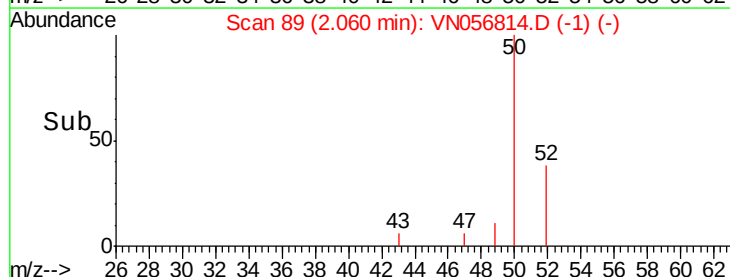
3000

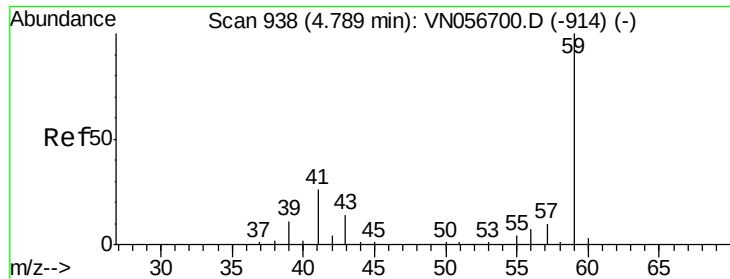
2000

1000

0

Time--> 2.05 2.10

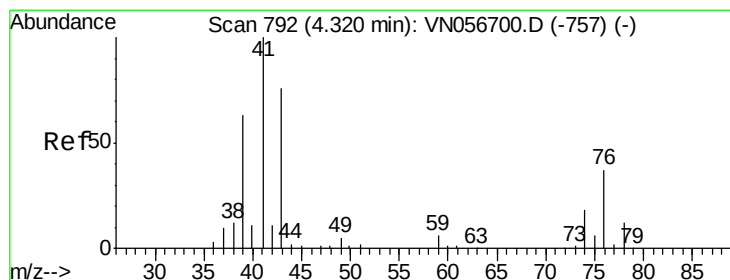
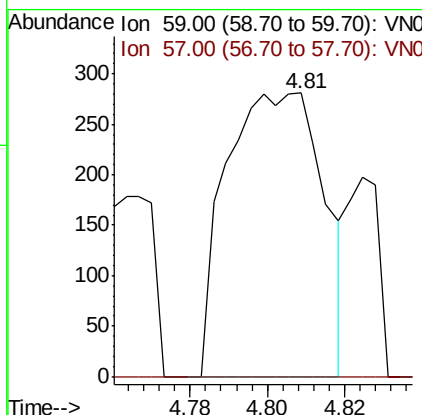
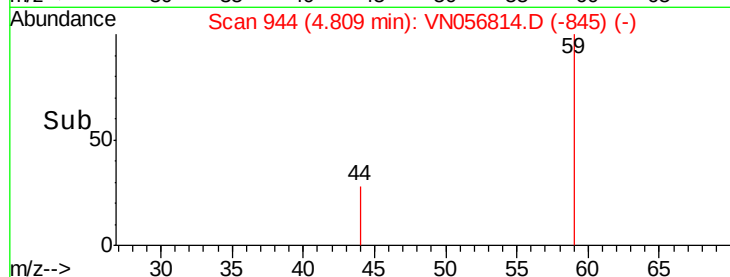
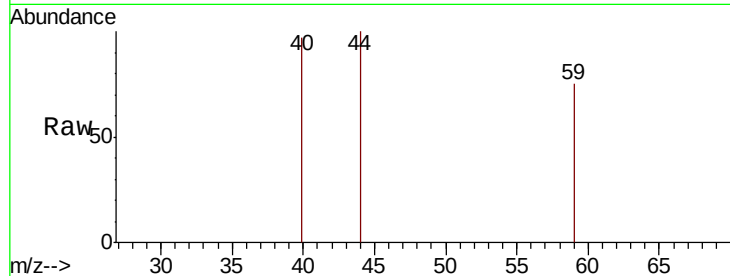




#11
Tert butyl alcohol
Concen: 1.049 ug/l
RT: 4.81 min Scan# 944
Delta R.T. 0.02 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

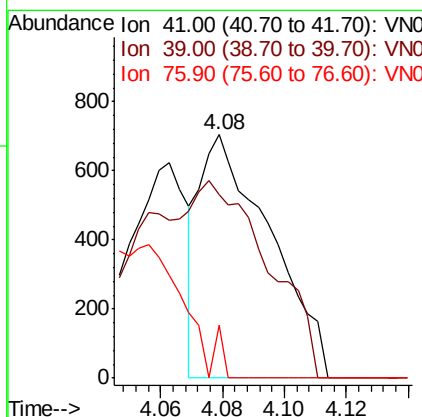
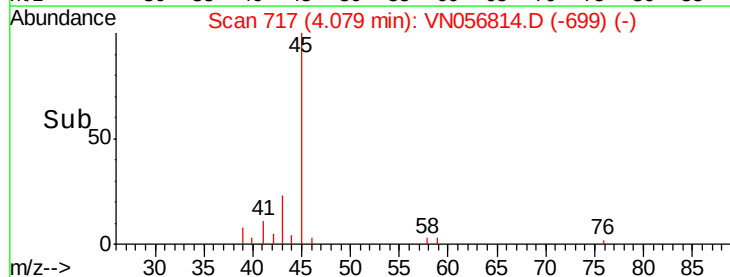
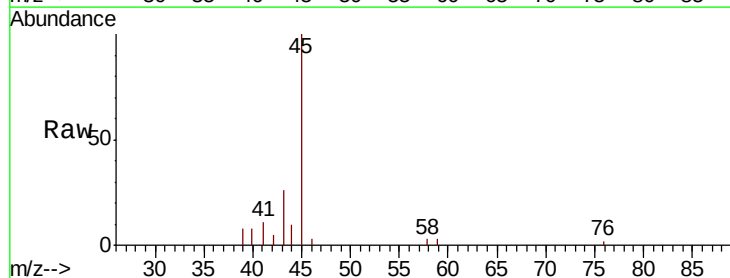
Instrument :
MSVOA_N
ClientSampled :
T-1

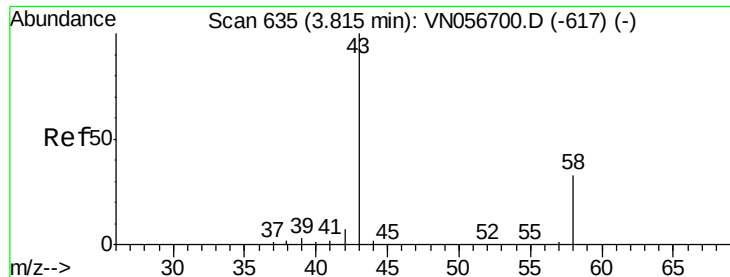
Tot Ion: 59 Resp: 492
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#14
Allyl chloride
Concen: 0.270 ug/l
RT: 4.08 min Scan# 717
Delta R.T. -0.24 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Tgt Ion: 41 Resp: 1120
Ion Ratio Lower Upper
41 100
39 0.0 46.9 70.3#
76 0.0 26.5 39.7#





#16

Acetone

Concen: 47.491 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :

MSVOA_N

ClientSampled :

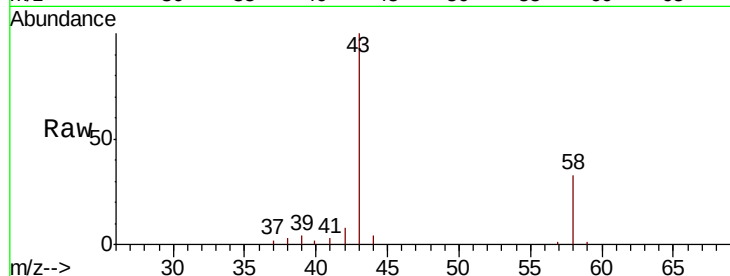
T-1

Tot Ion: 43 Resp: 61684

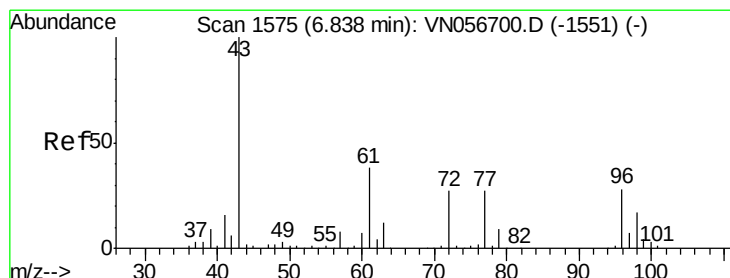
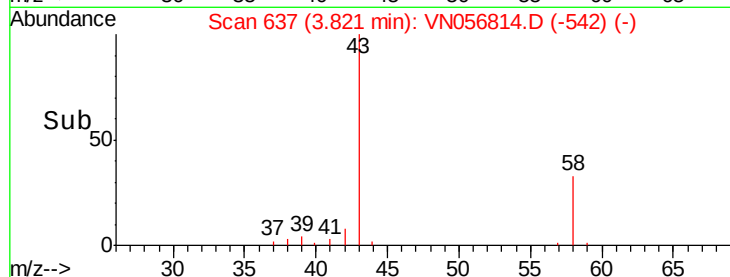
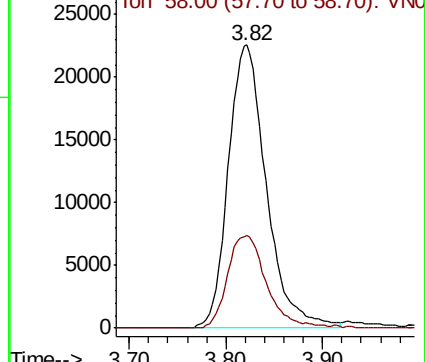
Ion Ratio Lower Upper

43 100

58 32.7 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN056814.D (-542) (-)



#25

2-Butanone

Concen: 0.945 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VN056814.D

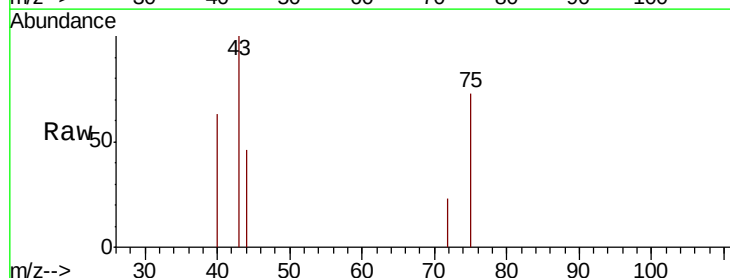
Acq: 18 Jul 2019 16:04

Tgt Ion: 43 Resp: 1794

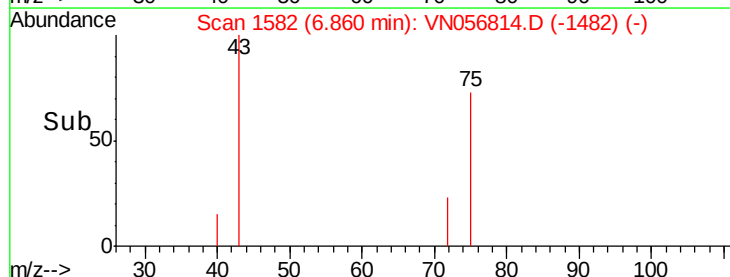
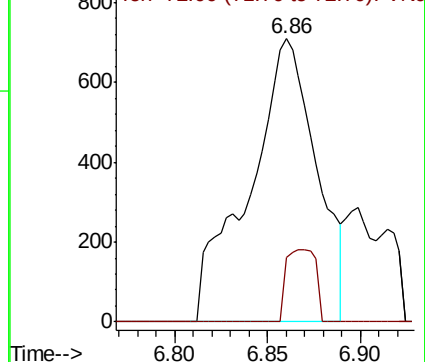
Ion Ratio Lower Upper

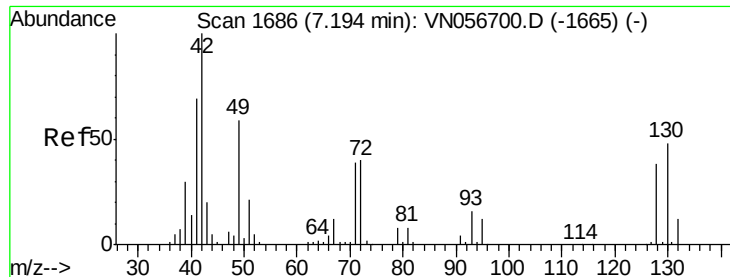
43 100

72 22.9 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN056814.D (-1482) (-)





#28

Bromochloromethane

Concen: 0.454 ug/l

RT: 7.36 min Scan# 1739

Delta R.T. 0.17 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
T-1

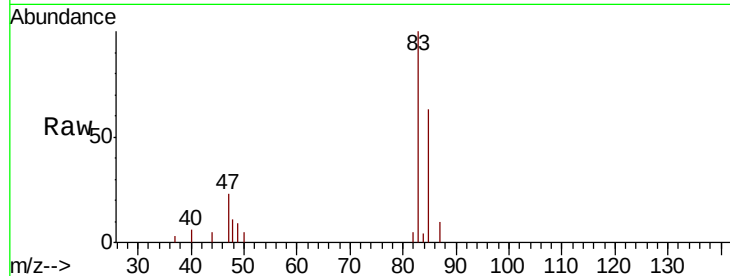
Tot Ion: 49 Resp: 1013

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

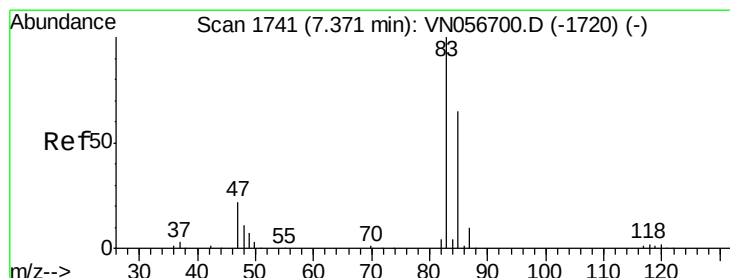
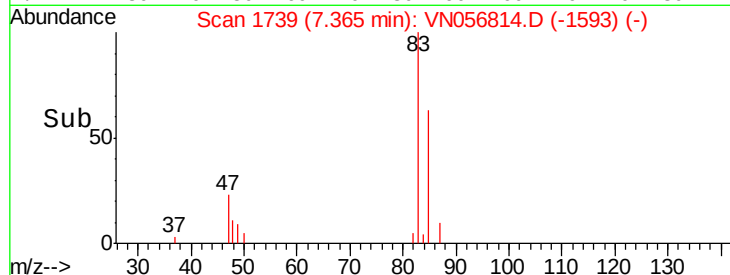
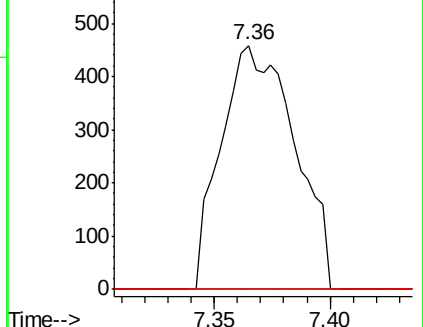
130 0.0 64.7 97.1#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 3.380 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN056814.D

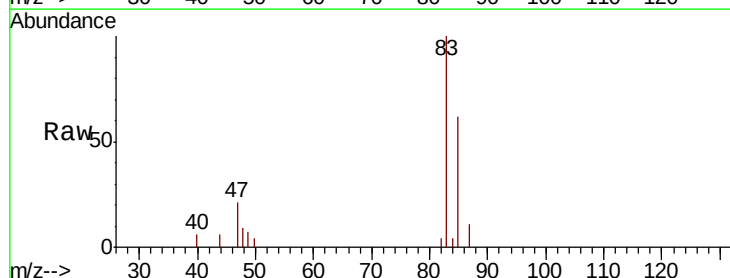
Acq: 18 Jul 2019 16:04

Tgt Ion: 83 Resp: 16036

Ion Ratio Lower Upper

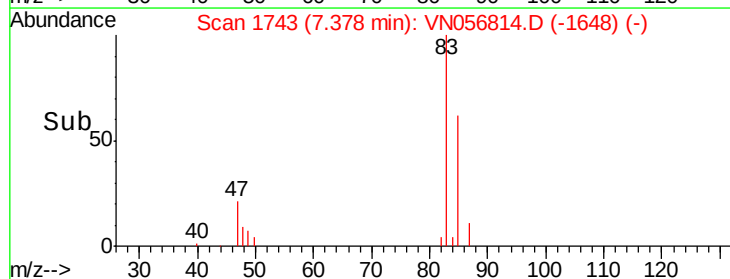
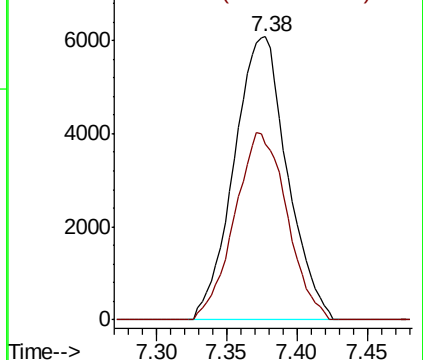
83 100

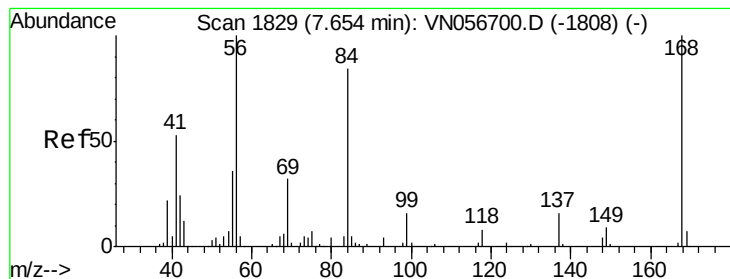
85 62.2 51.9 77.9



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.903 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :

MSVOA_N

ClientSampled :

T-1

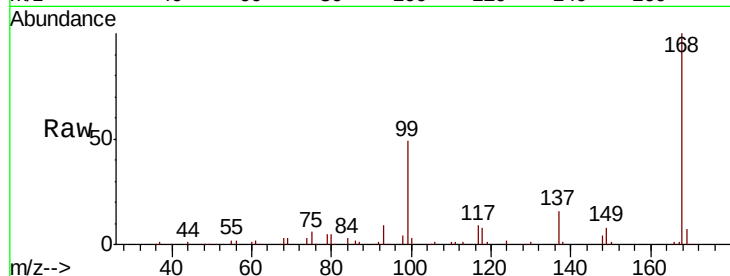
Tot Ion: 56 Resp: 4067

Ion Ratio Lower Upper

56 100

69 196.2 25.8 38.8#

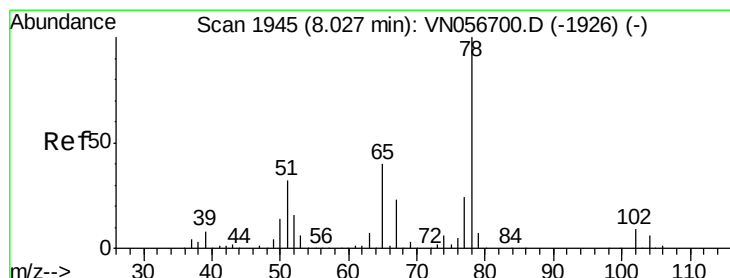
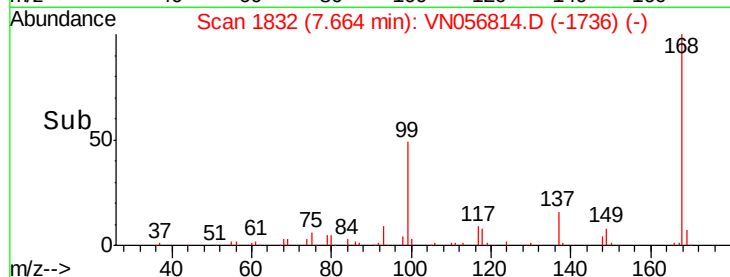
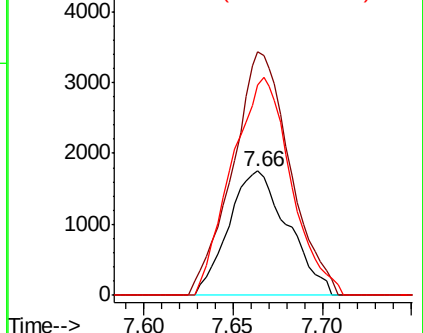
84 169.4 67.4 101.0#



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: 53.355 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056814.D

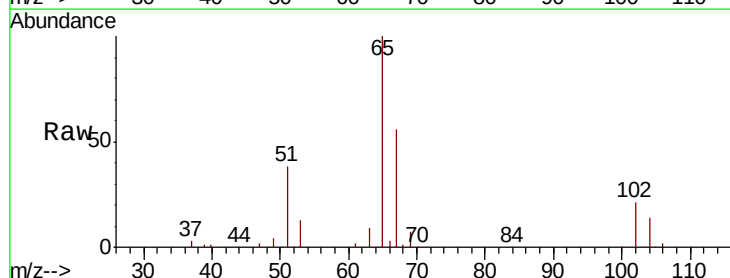
Acq: 18 Jul 2019 16:04

Tgt Ion: 65 Resp: 150385

Ion Ratio Lower Upper

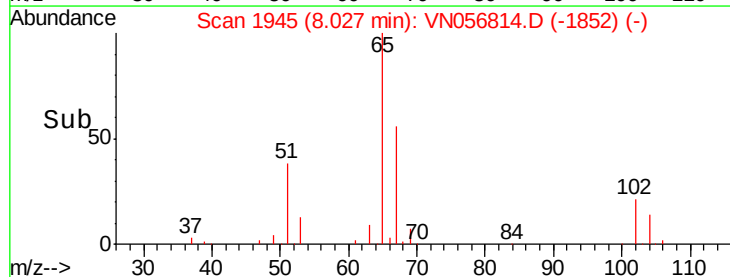
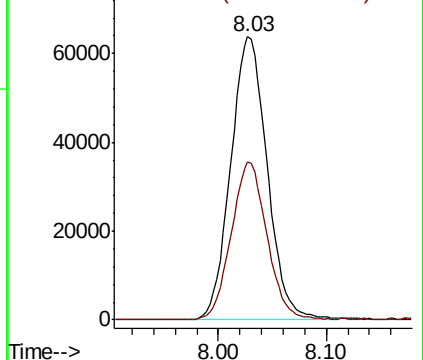
65 100

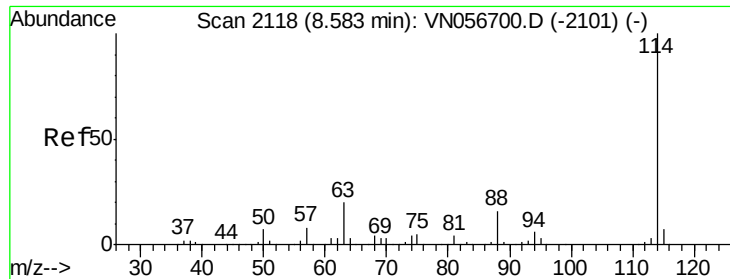
67 54.6 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

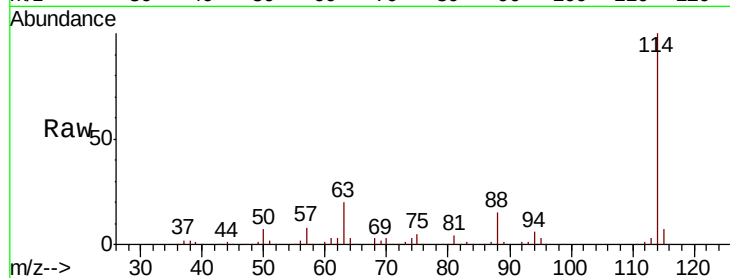




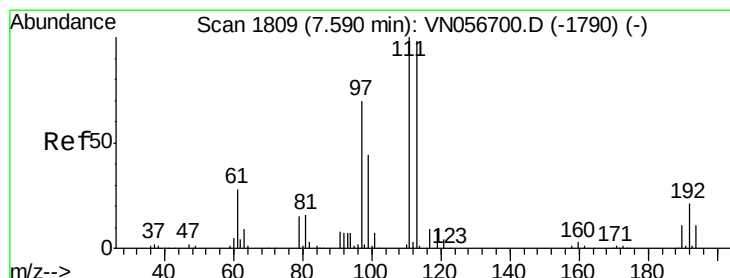
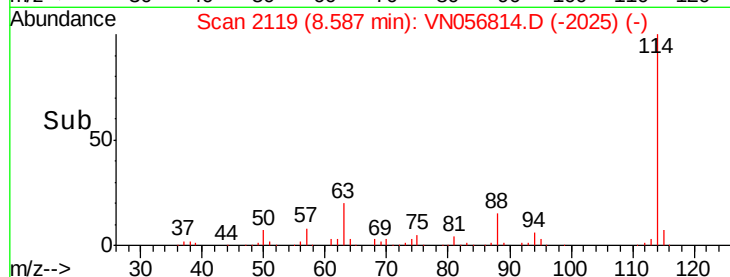
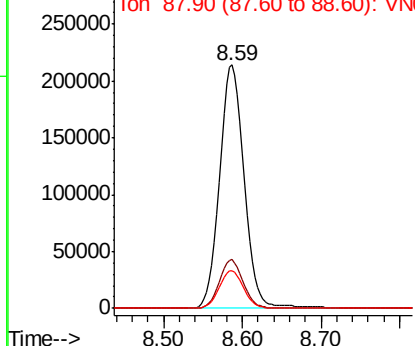
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Instrument :
MSVOA_N
ClientSampled :
T-1

Tot Ion:114 Resp: 460913
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.4
88 15.4 0.0 31.2

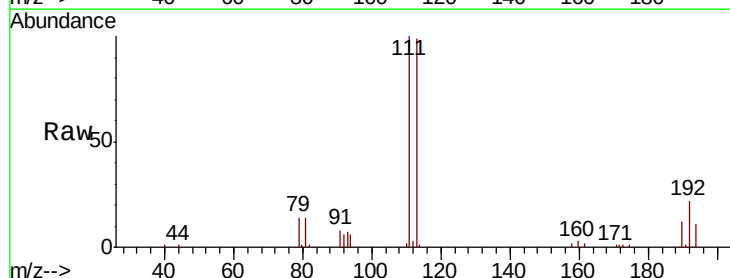


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

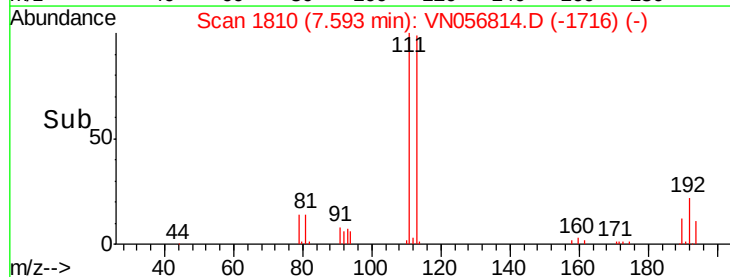
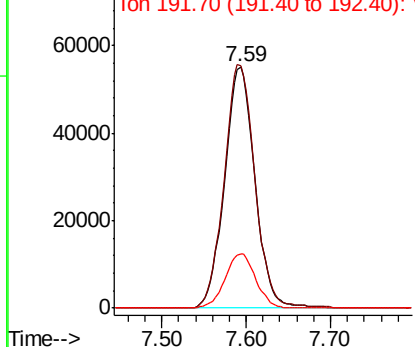


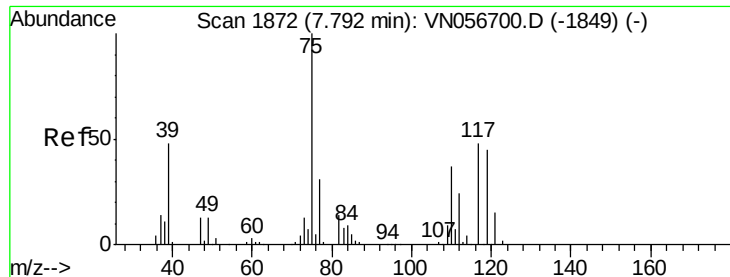
#35
Dibromofluoromethane
Concen: 48.114 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Tgt Ion:113 Resp: 138008
Ion Ratio Lower Upper
113 100
111 101.7 81.8 122.6
192 22.6 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

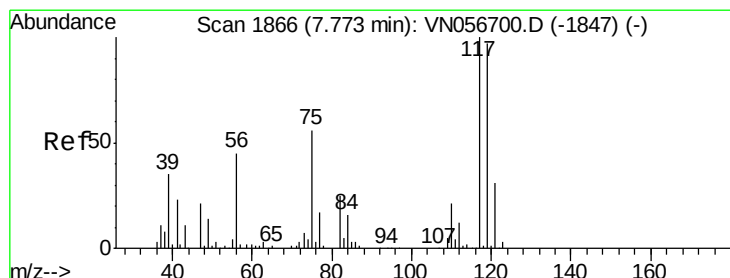
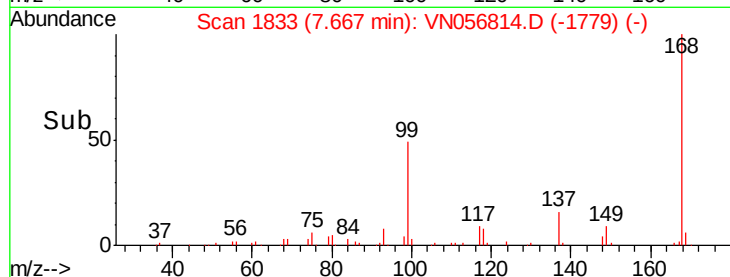
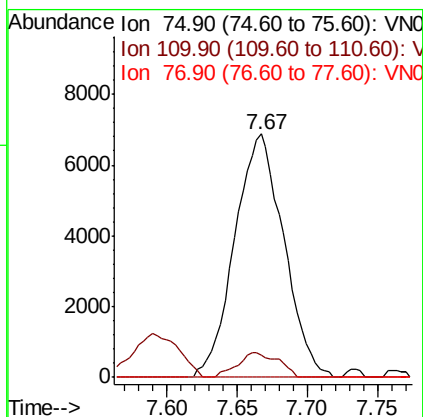
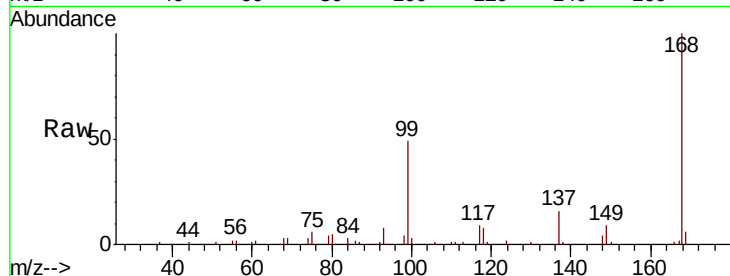




#36
 1,1-Dichloropropene
 Concen: 3.923 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056814.D
 Acq: 18 Jul 2019 16:04

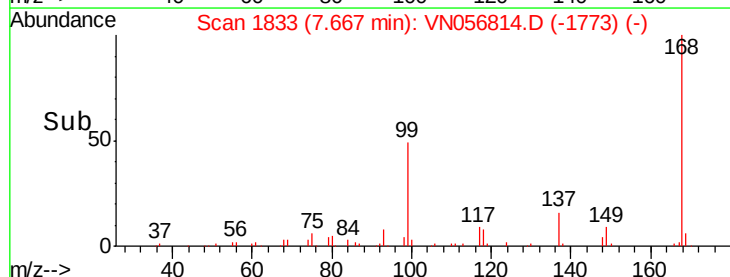
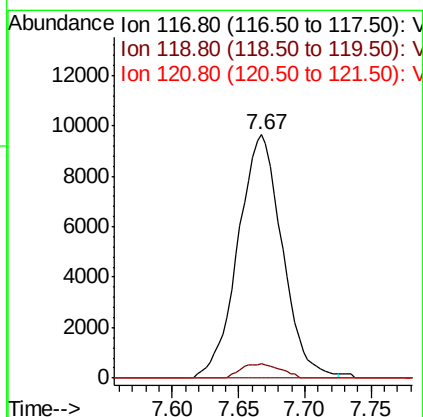
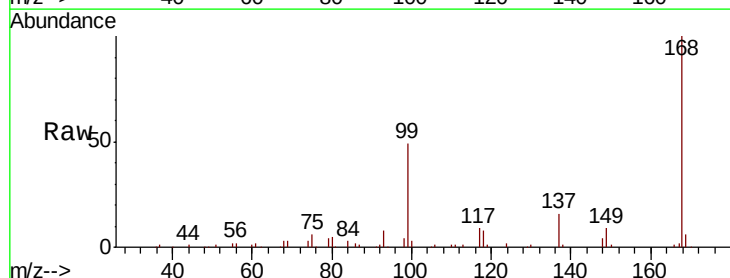
Instrument :
 MSVOA_N
 ClientSampled :
 T-1

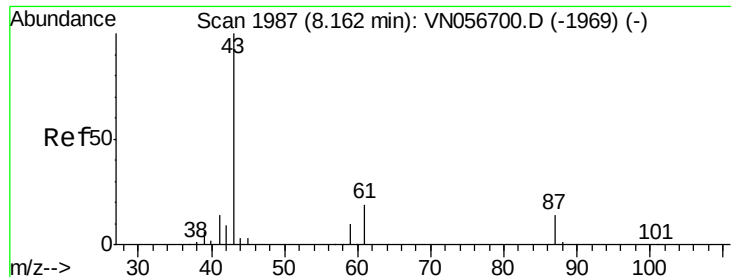
Tot Ion	75	Resp	16733
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.594 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056814.D
 Acq: 18 Jul 2019 16:04

Tgt Ion	117	Resp	22376
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.7	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 4.181 ug/l

RT: 8.34 min Scan# 2042

Delta R.T. 0.18 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :

MSVOA_N

ClientSampled :

T-1

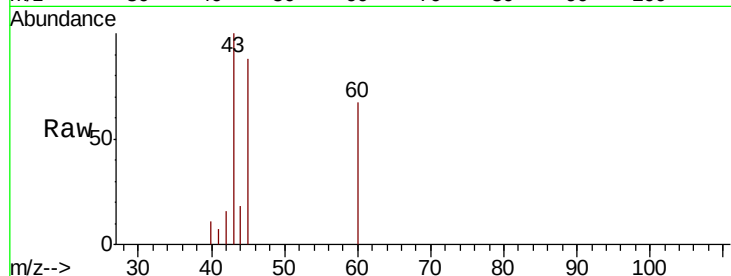
Tot Ion: 43 Resp: 27629

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

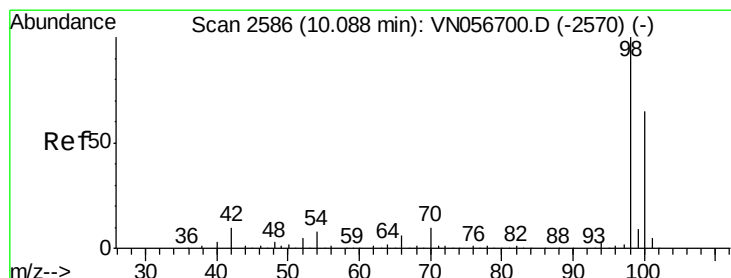
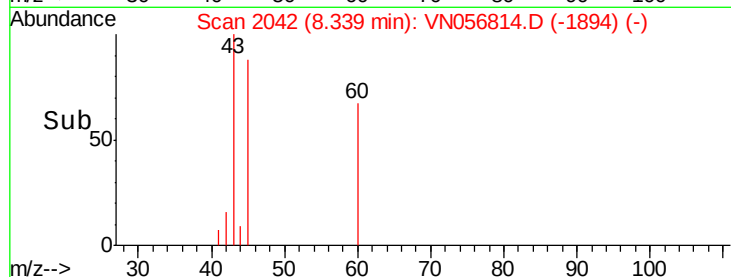
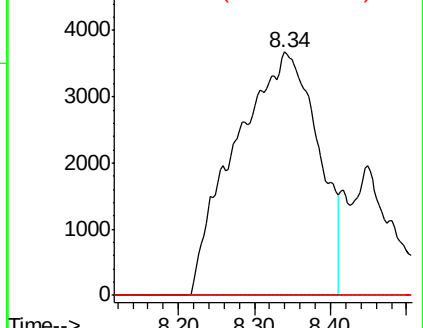
87 0.0 11.1 16.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 52.404 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056814.D

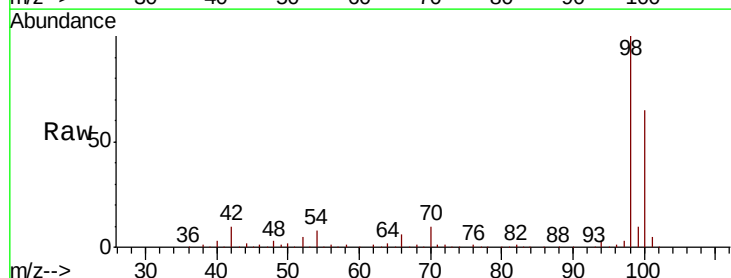
Acq: 18 Jul 2019 16:04

Tgt Ion: 98 Resp: 580546

Ion Ratio Lower Upper

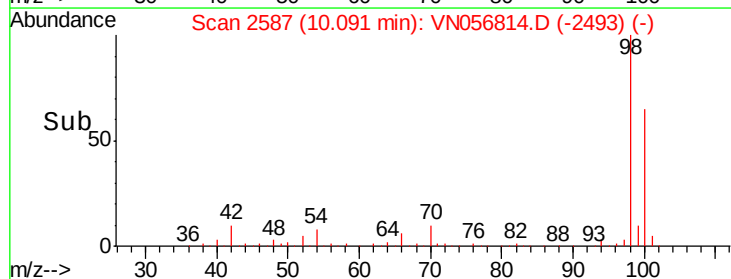
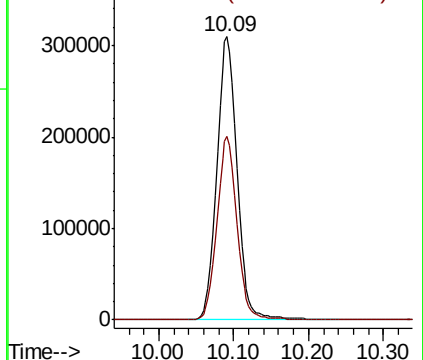
98 100

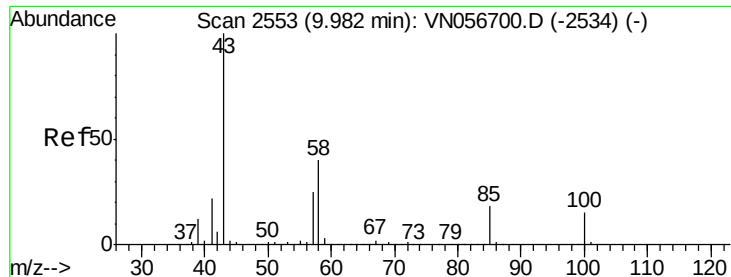
100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.684 ug/l

RT: 9.93 min Scan# 2537

Delta R.T. -0.05 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :

MSVOA_N

ClientSampled :

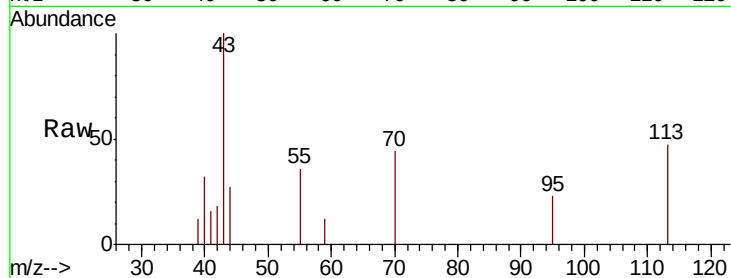
T-1

Tot Ion: 43 Resp: 2926

Ion Ratio Lower Upper

43 100

58 0.0 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN056700.D (-2534) (-)

9.93

1500

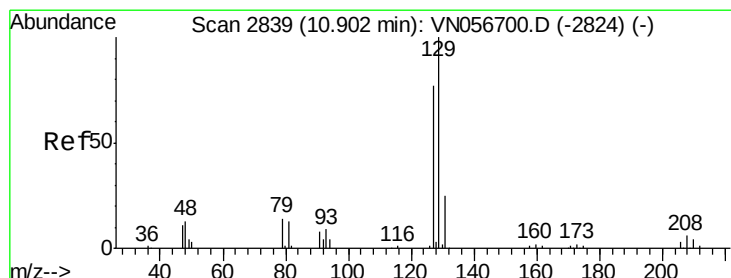
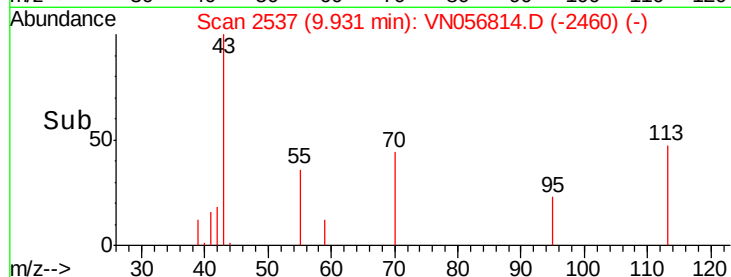
1000

500

0

9.90 9.95

Time-->



#60

Dibromochloromethane

Concen: 0.359 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN056814.D

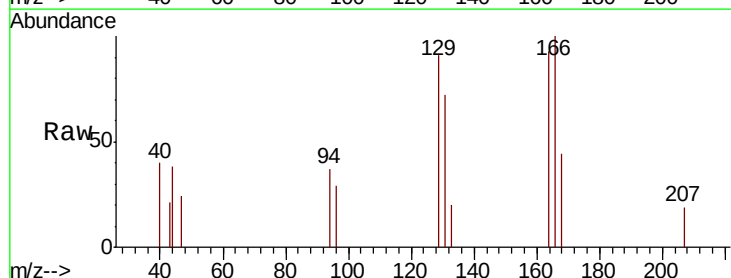
Acq: 18 Jul 2019 16:04

Tgt Ion: 129 Resp: 1150

Ion Ratio Lower Upper

129 100

127 0.0 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): VN056700.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN056700.D (-2824) (-)

10.63

800

600

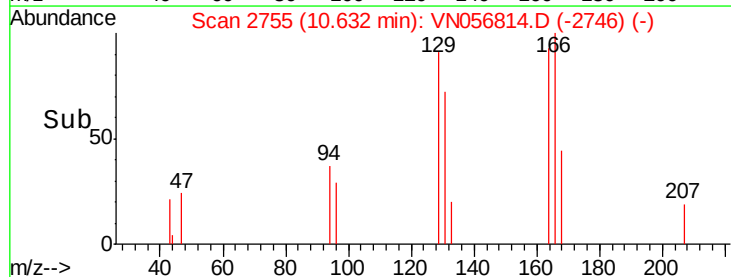
400

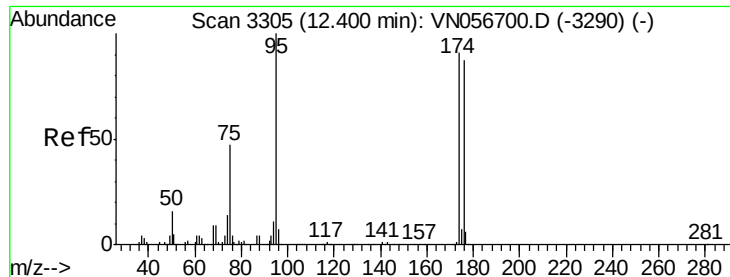
200

0

10.60 10.65

Time-->

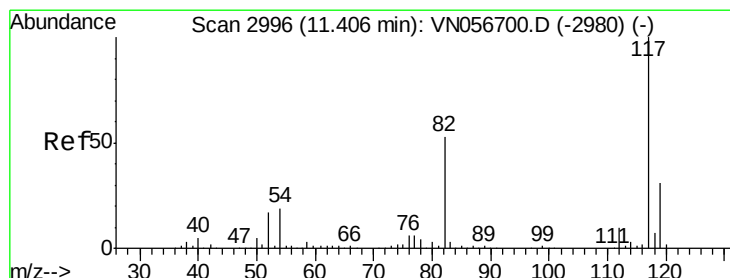
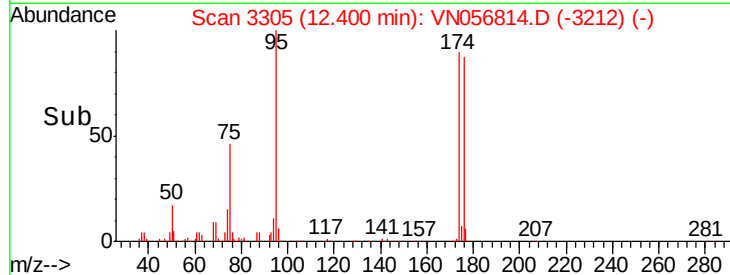
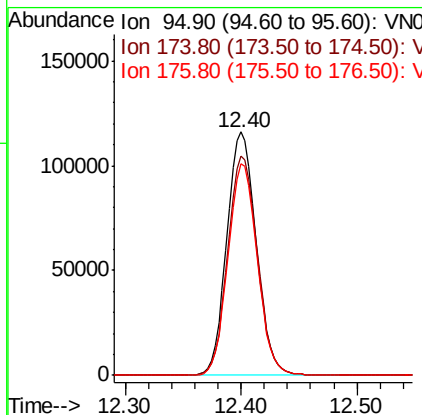
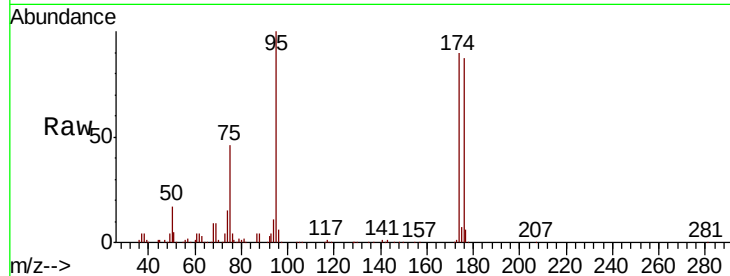




#62
4-Bromofluorobenzene
Concen: 54.152 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

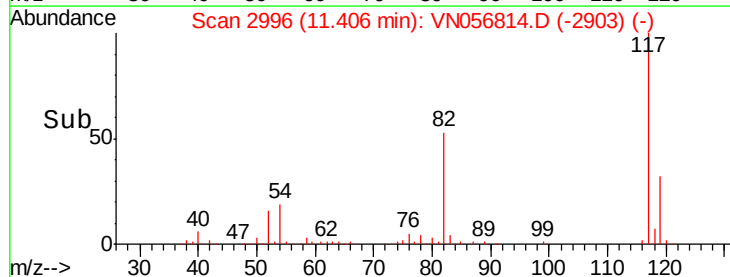
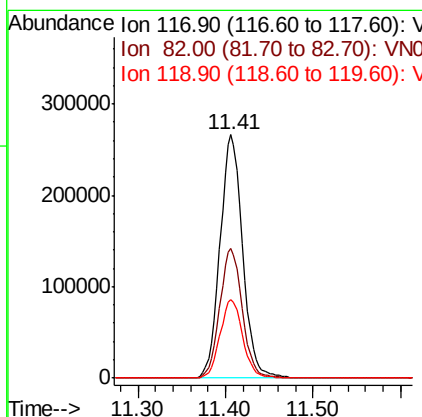
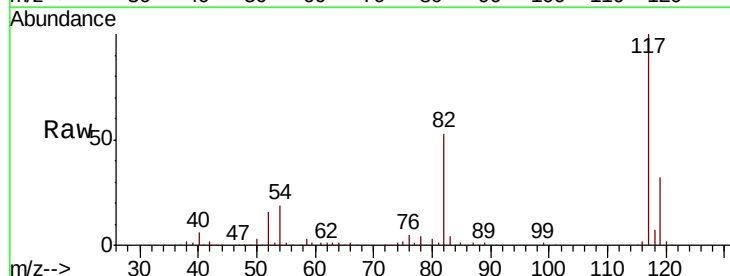
Instrument :
MSVOA_N
ClientSampled :
T-1

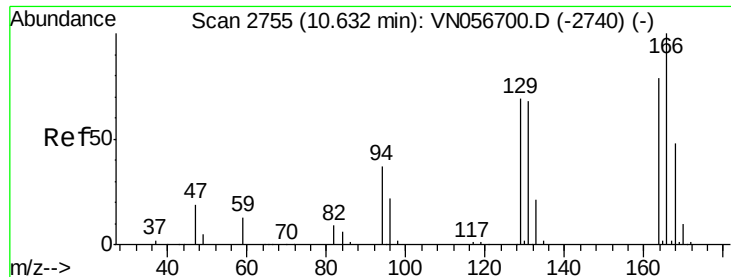
Tot Ion	95	Resp	202310
Ion	Ratio	Lower	Upper
95	100		
174	91.1	0.0	180.0
176	86.8	0.0	173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Tgt Ion	117	Resp	477124
Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.2	63.2
119	32.4	25.2	37.8

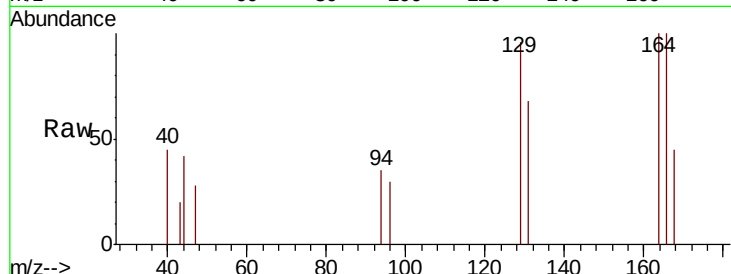




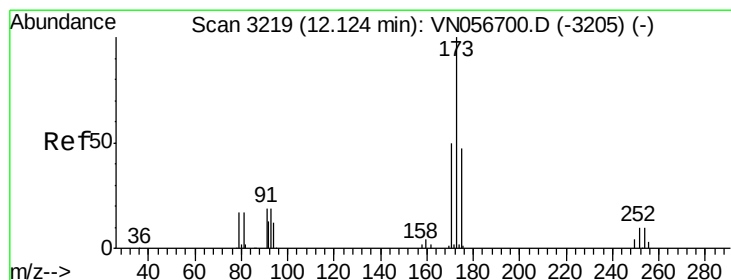
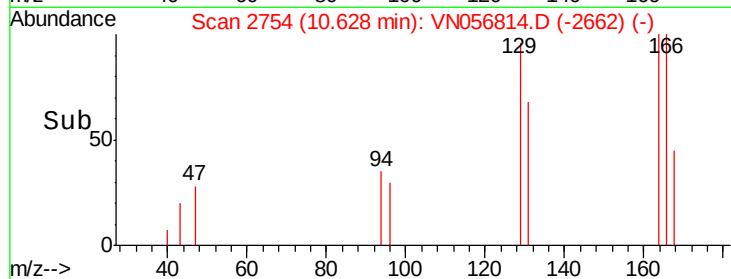
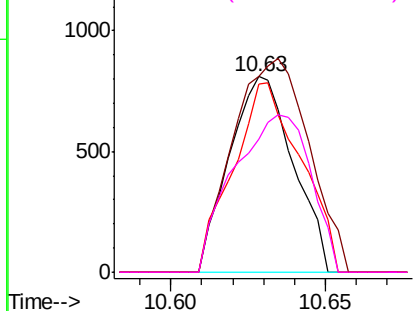
#64
Tetrachloroethene
Concen: 0.281 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Instrument :
MSVOA_N
ClientSampled :
T-1

Tot Ion:164 Resp: 1158
Ion Ratio Lower Upper
164 100
166 100.1 101.4 152.2#
129 95.9 69.6 104.4
131 68.0 69.0 103.4#

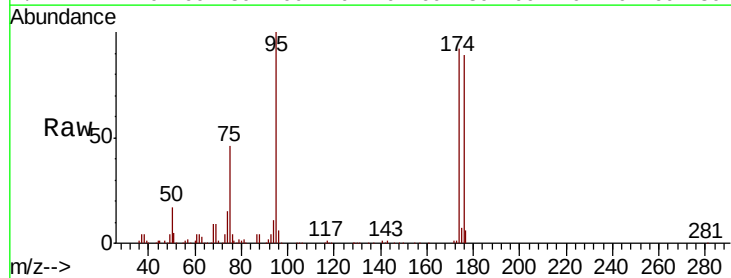


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

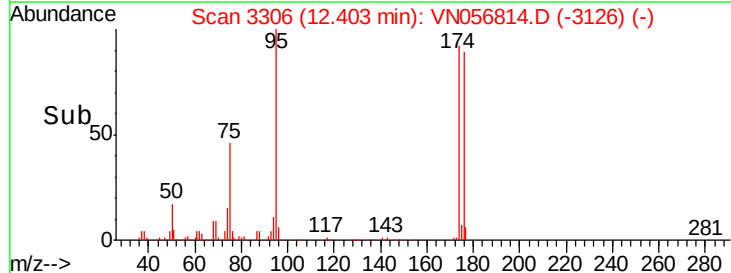
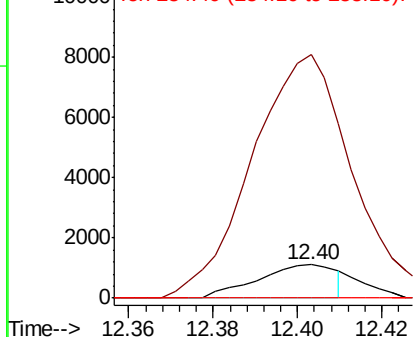


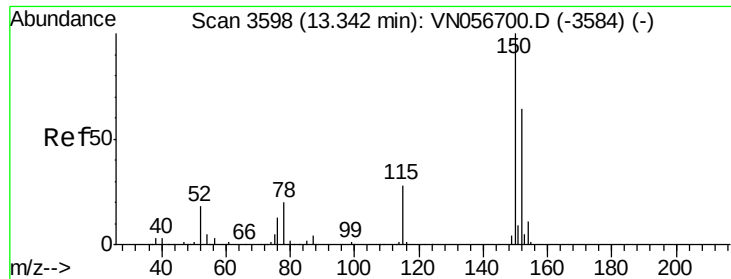
#71
Bromoform
Concen: 0.527 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Tgt Ion:173 Resp: 1440
Ion Ratio Lower Upper
173 100
175 761.8 23.8 71.4#
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



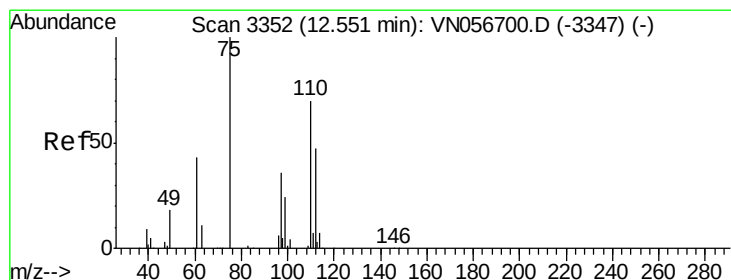
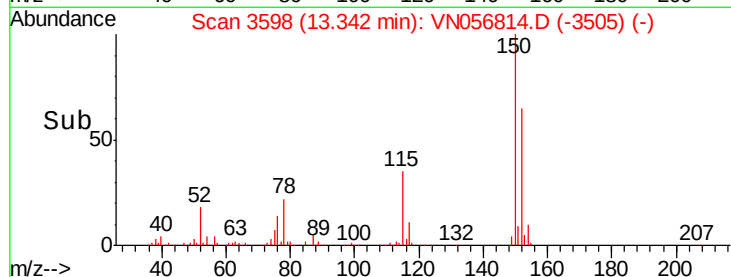
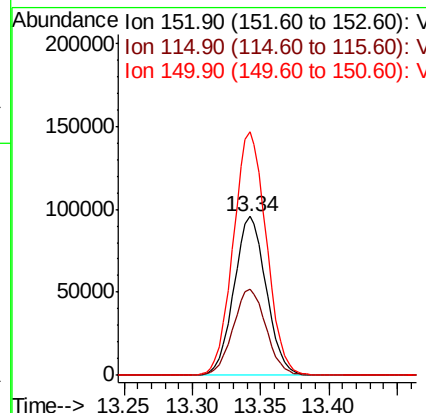
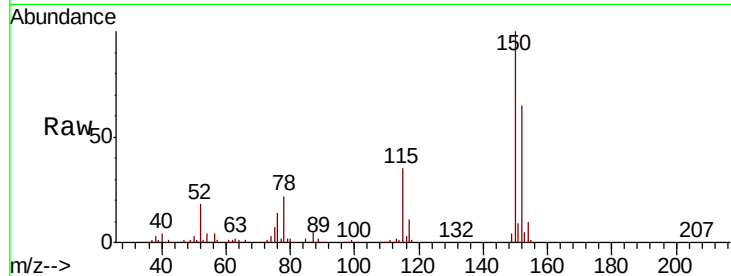


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
T-1

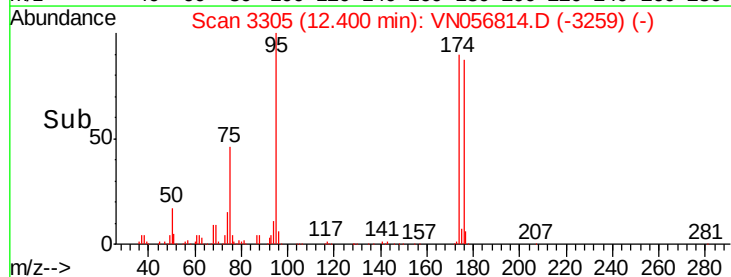
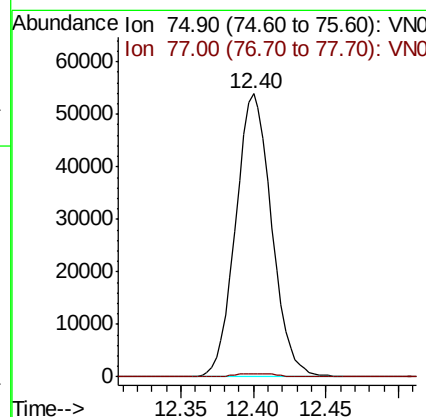
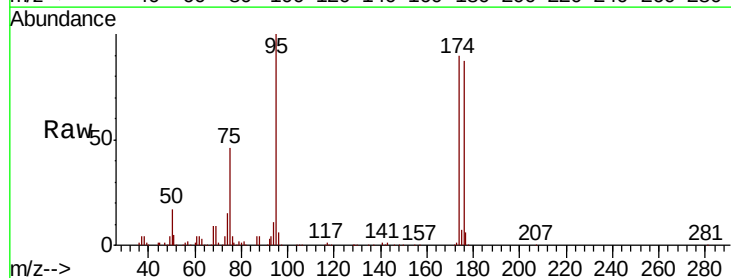
Tot Ion:152 Resp: 157310
Ion Ratio Lower Upper
152 100
115 55.7 28.2 84.7
150 156.6 0.0 345.8

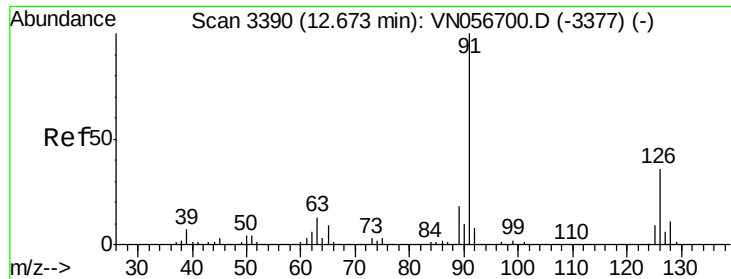


#76

1,2,3-Trichloropropane
Concen: 26.971 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN056814.D
Acq: 18 Jul 2019 16:04

Tgt Ion: 75 Resp: 92798
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

Instrument :

MSVOA_N

ClientSampled :

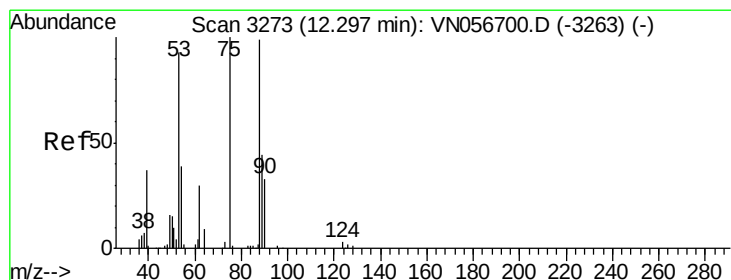
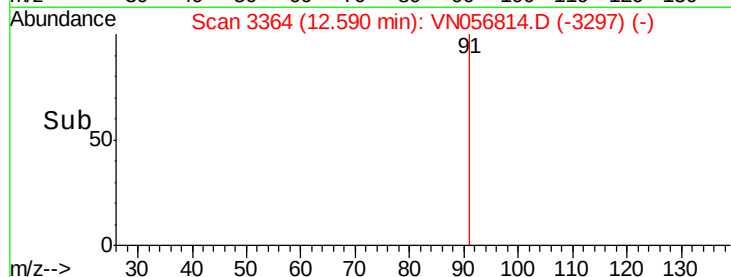
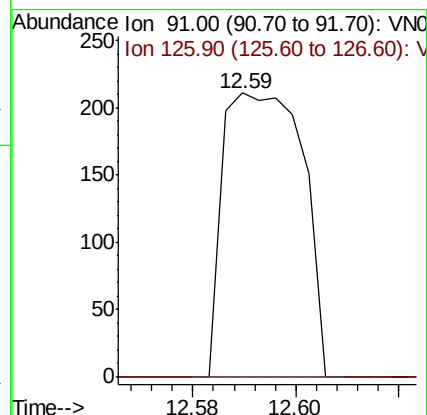
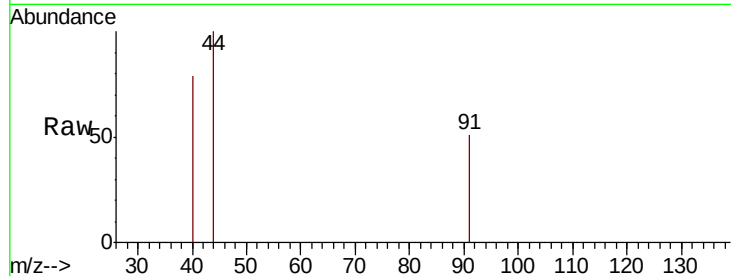
T-1

Tot Ion: 91 Resp: 225

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.297 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056814.D

Acq: 18 Jul 2019 16:04

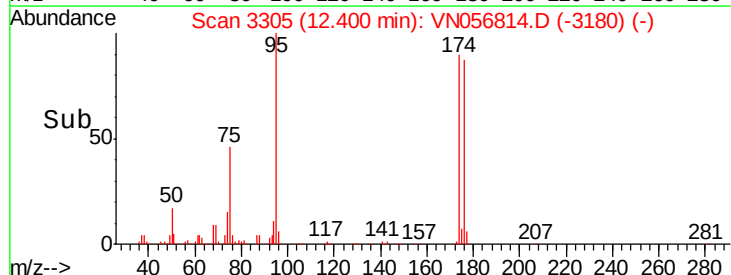
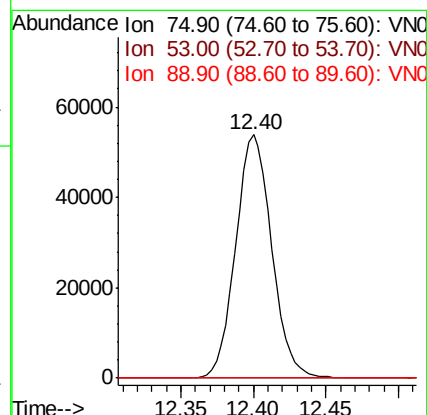
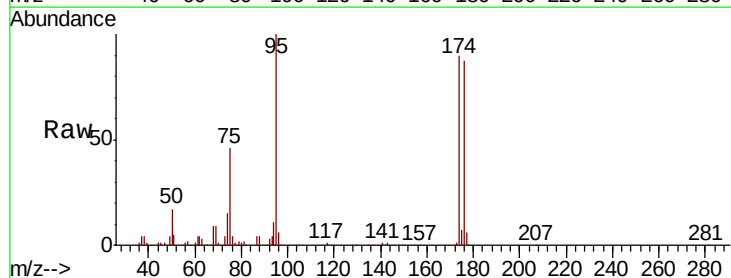
Tgt Ion: 75 Resp: 92798

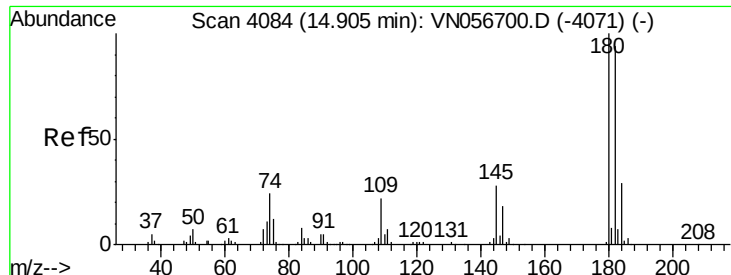
Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#

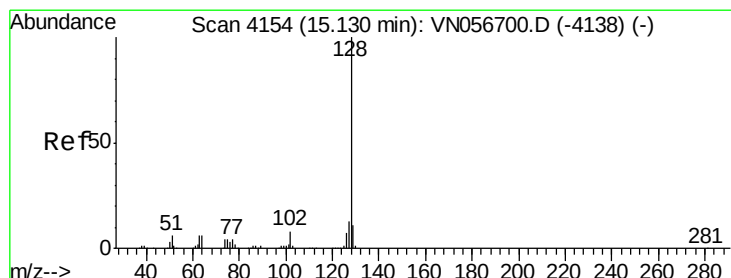
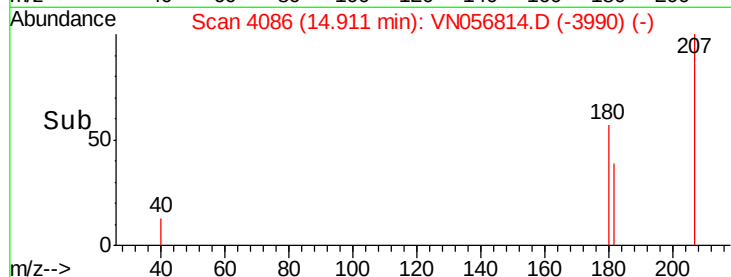
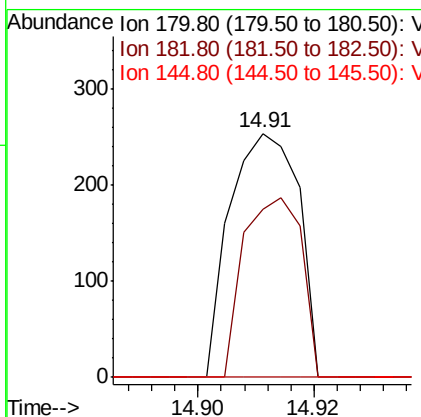
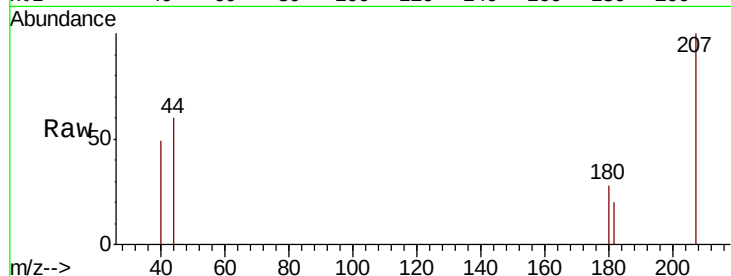




#93
 1,2,4-Trichlorobenzene
 Concen: 3.754 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056814.D
 Acq: 18 Jul 2019 16:04

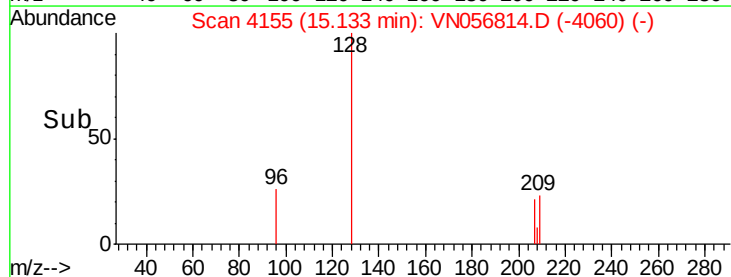
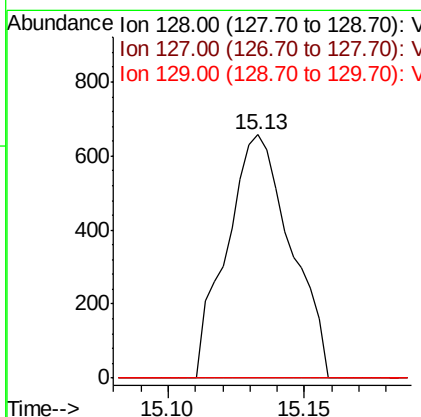
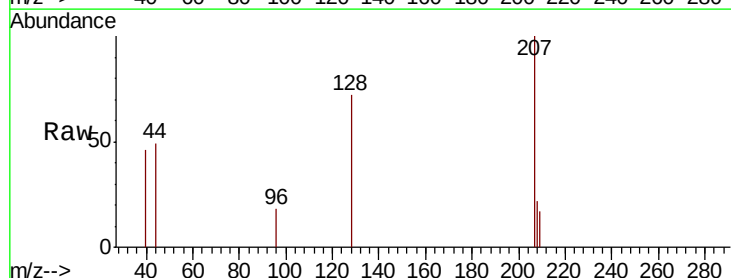
Instrument :
 MSVOA_N
 ClientSampled :
 T-1

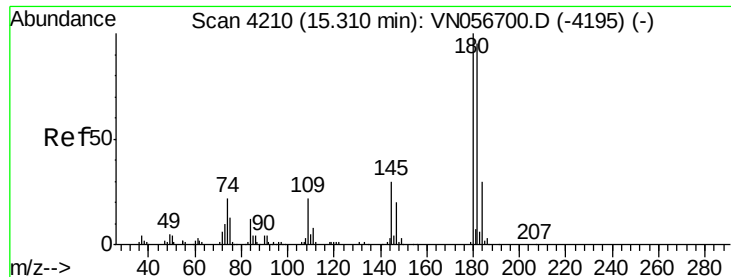
Tot Ion:180 Resp: 207
 Ion Ratio Lower Upper
 180 100
 182 62.3 47.2 141.6
 145 0.0 14.2 42.8#



#95
 Naphthalene
 Concen: 4.641 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN056814.D
 Acq: 18 Jul 2019 16:04

Tgt Ion:128 Resp: 1072
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.7 13.1#

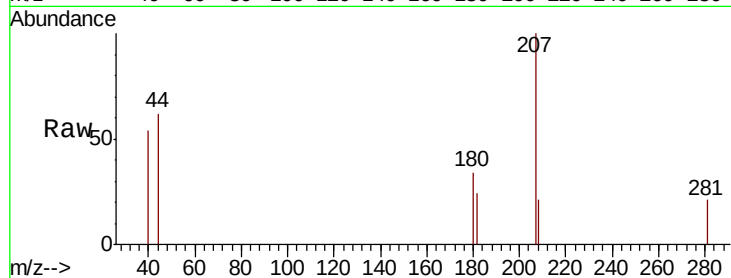




#96
 1,2,3-Trichlorobenzene
 Concen: 3.442 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN056814.D
 Acq: 18 Jul 2019 16:04

Instrument :
 MSVOA_N
 ClientSampleId :
 T-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	57.7	47.1	141.3
145	0.0	15.0	45.1#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

