

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN093019\
 Data File : VN058425.D
 Acq On : 30 Sep 2019 11:31
 Operator : JC/SP
 Sample : K5080-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 01:29:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	457251	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	739706	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	628062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	243098	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	322385	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
35) Dibromofluoromethane	7.57	113	228575	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
50) Toluene-d8	10.08	98	918752	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.41	95	289797	45.13	ug/l	0.00
Spiked Amount			Recovery	=	90.26%	

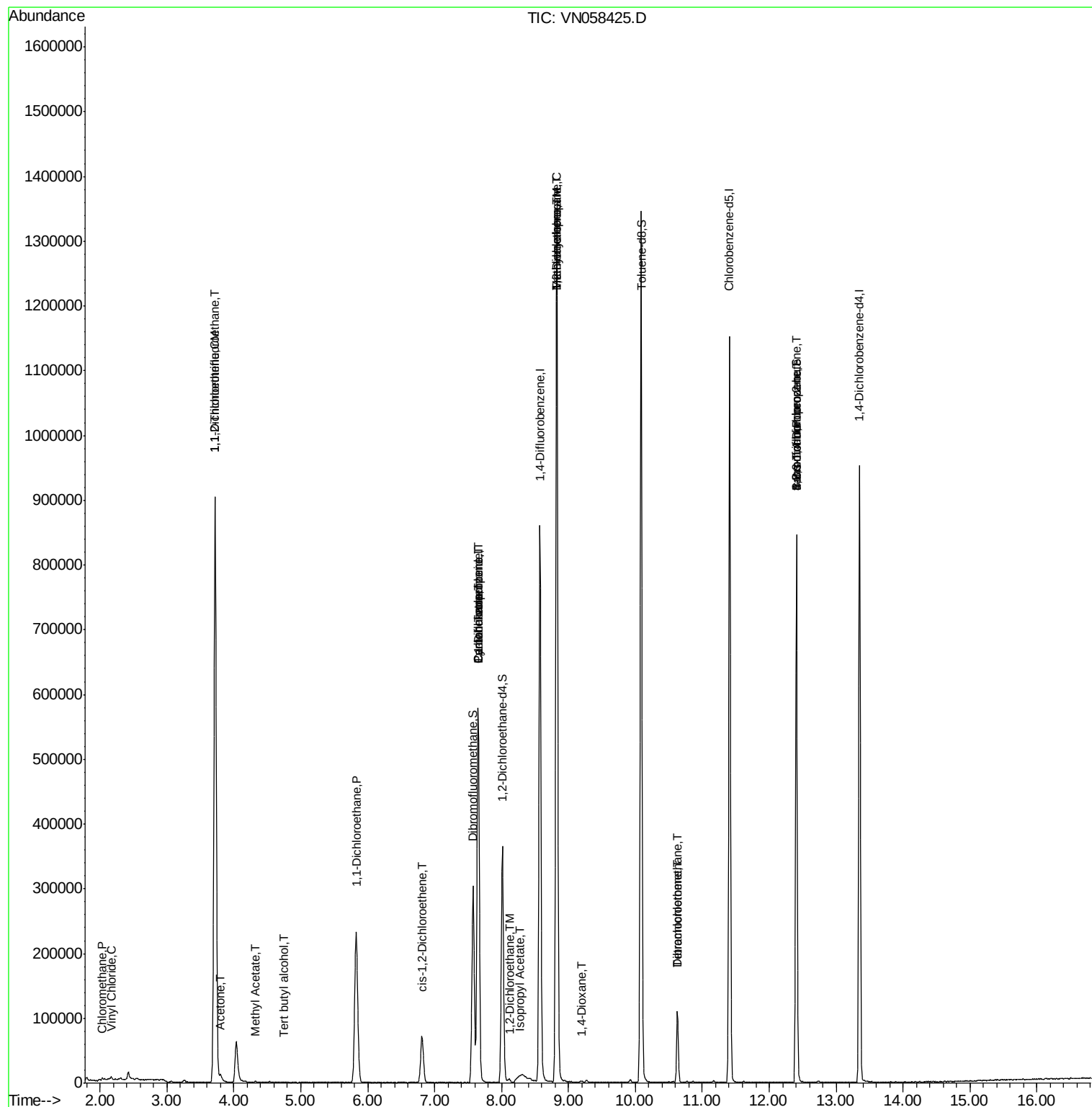
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2048	0.372	ug/l #	87
4) Vinyl Chloride	2.17	62	3908	0.724	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.72	101	929	0.210	ug/l #	19
11) Tert butyl alcohol	4.75	59	516	0.695	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	439706	101.938	ug/l	99
16) Acetone	3.80	43	16216	7.119	ug/l	95
18) Methyl Acetate	4.32	43	2747	0.479	ug/l #	60
24) 1,1-Dichloroethane	5.83	63	362299	38.109	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	45690	8.150	ug/l	87
31) Cyclohexane	7.65	56	10865	1.175	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	38246	5.407	ug/l #	52
38) Carbon Tetrachloride	7.65	117	45866	7.184	ug/l #	16
39) Methylcyclohexane	8.82	83	5891	0.713	ug/l #	1
42) 1,2-Dichloroethane	8.11	62	5184	0.655	ug/l	90
43) Isopropyl Acetate	8.27	43	12578	1.115	ug/l #	63
44) Trichloroethene	8.82	130	473571	94.334	ug/l	98
45) 1,2-Dichloropropane	8.82	63	1371	0.251	ug/l #	1
49) 1,4-Dioxane	9.20	88	1470	21.410	ug/l #	74
60) Dibromochloromethane	10.63	129	22124	4.077	ug/l #	11
64) Tetrachloroethene	10.63	164	22763	5.705	ug/l	95
71) Bromoform	12.41	173	1519	1.210	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	158417	35.678	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	158417	108.358	ug/l #	7

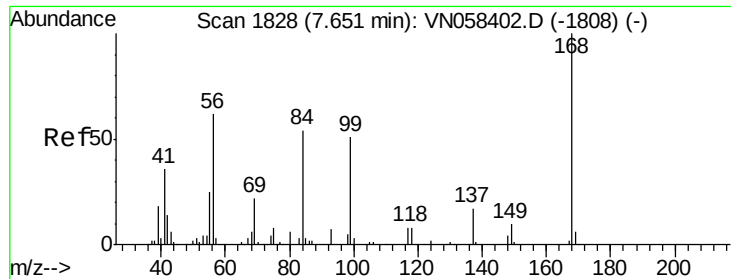
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

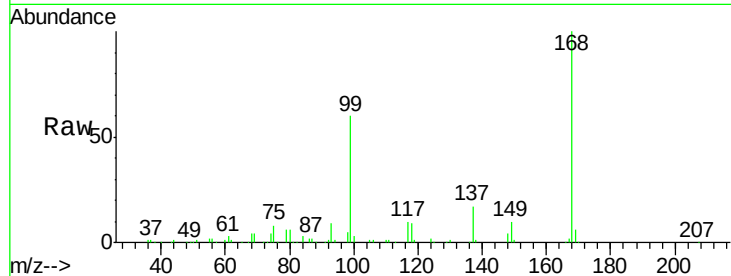
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 457251

Ion Ratio Lower Upper

168 100

99 60.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

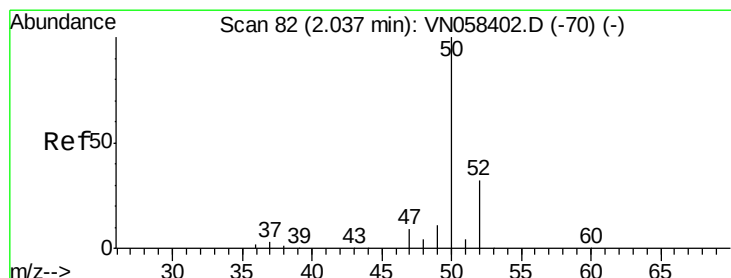
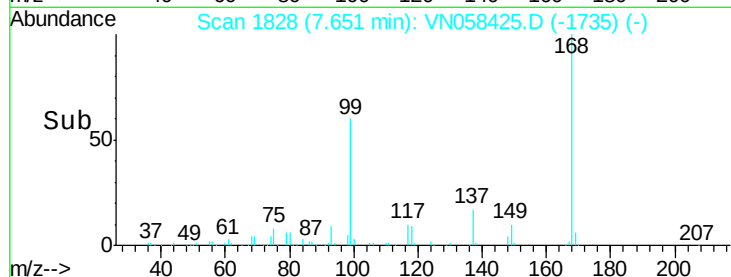
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.372 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058425.D

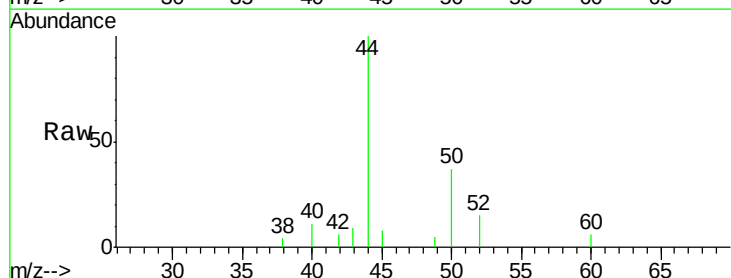
Acq: 30 Sep 2019 11:31

Tgt Ion: 50 Resp: 2048

Ion Ratio Lower Upper

50 100

52 39.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1500

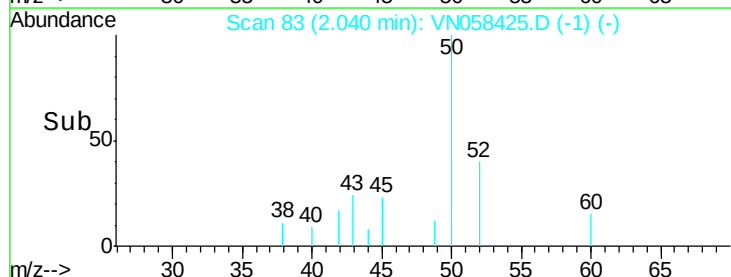
1000

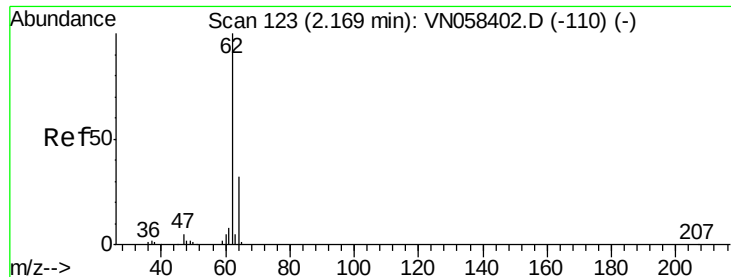
500

0

2.00 2.05

Time-->





#4

Vinyl Chloride

Concen: 0.724 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

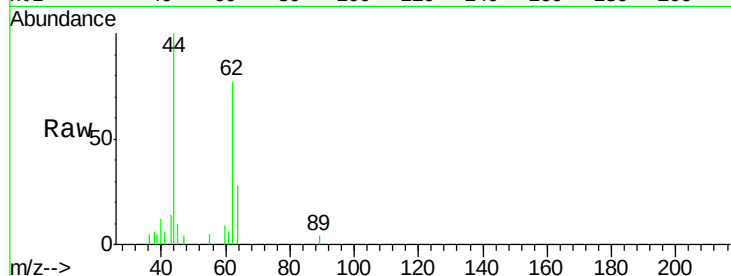
ClientSampleId :

Tot Ion: 62 Resp: 3908

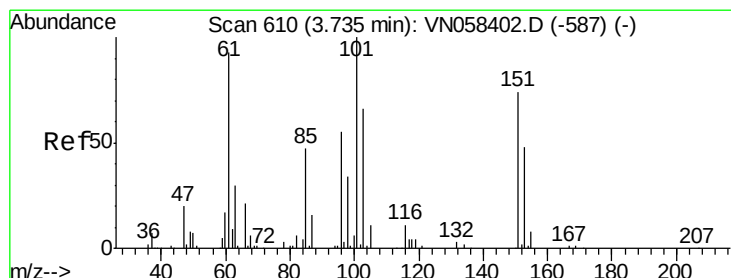
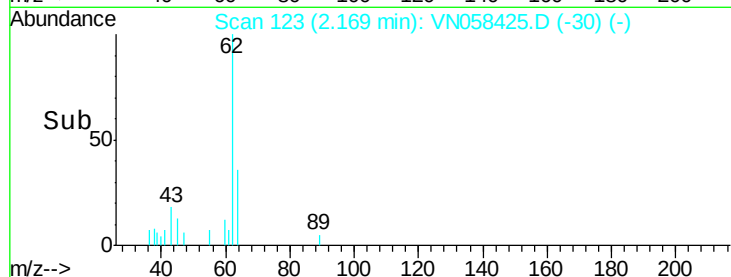
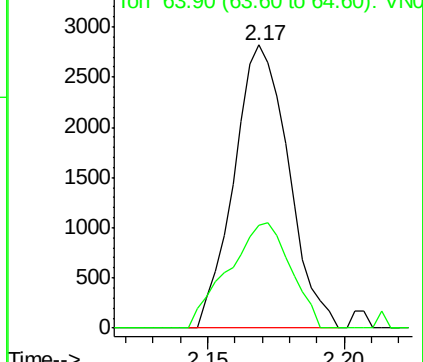
Ion Ratio Lower Upper

62 100

64 36.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN058425.D (-30) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.210 ug/l

RT: 3.72 min Scan# 606

Delta R.T. -0.01 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

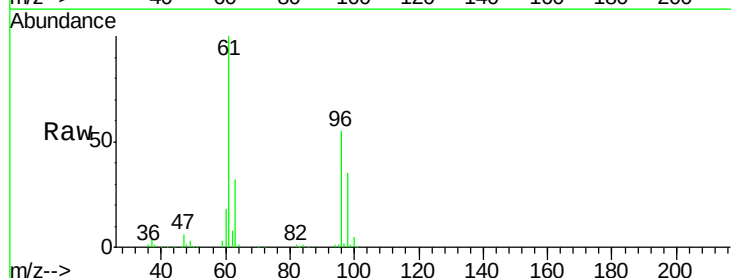
Tgt Ion: 101 Resp: 929

Ion Ratio Lower Upper

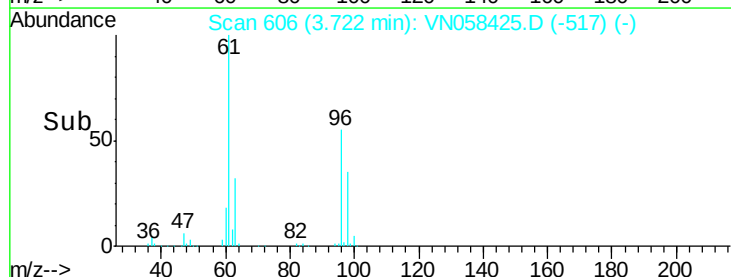
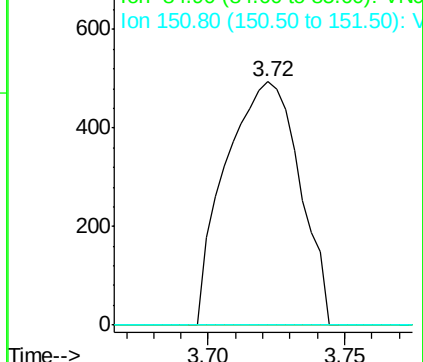
101 100

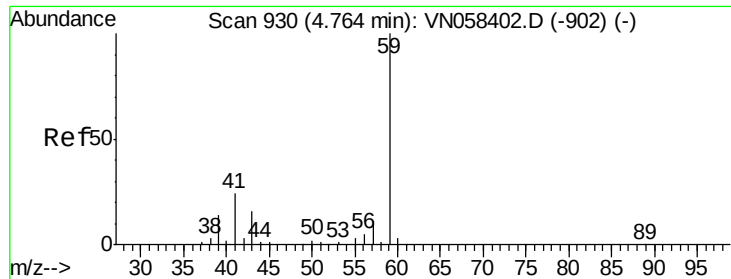
85 0.0 36.7 55.1#

151 0.0 59.4 89.0#



Abundance Ion 100.90 (100.60 to 101.60): VN058425.D (-517) (-)

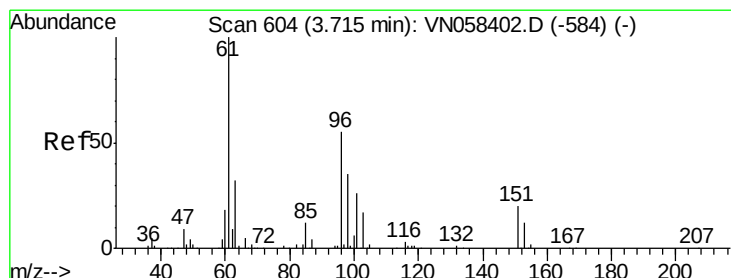
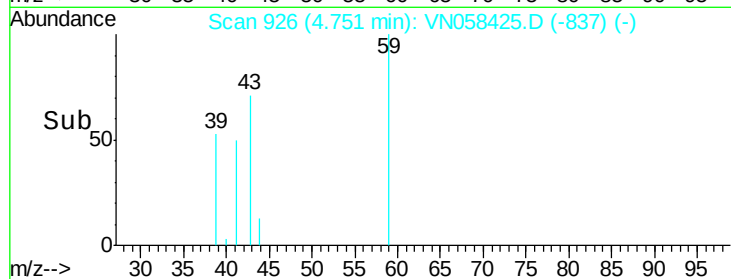
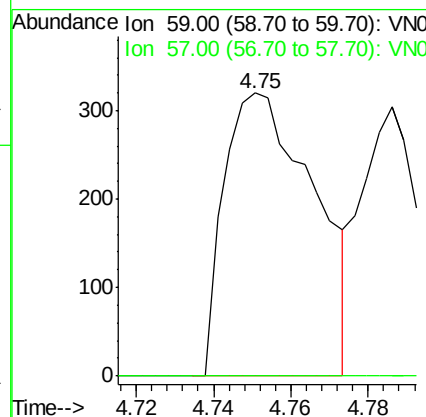
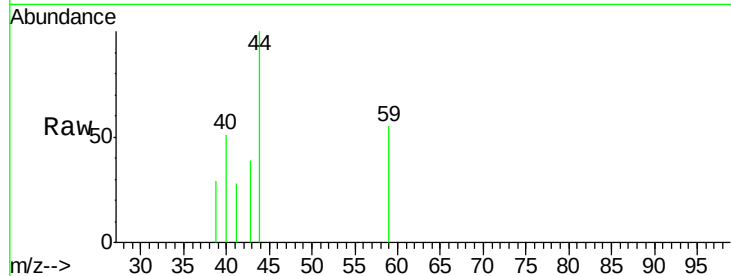




#11
Tert butyl alcohol
Concen: 0.695 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.01 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

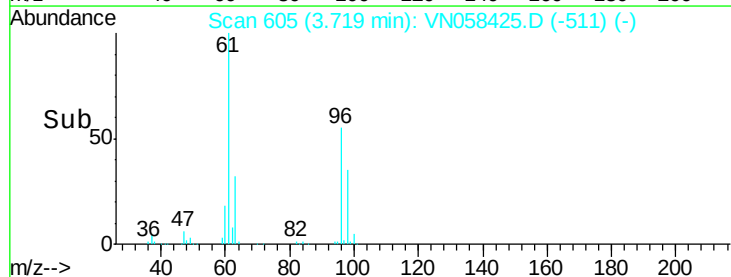
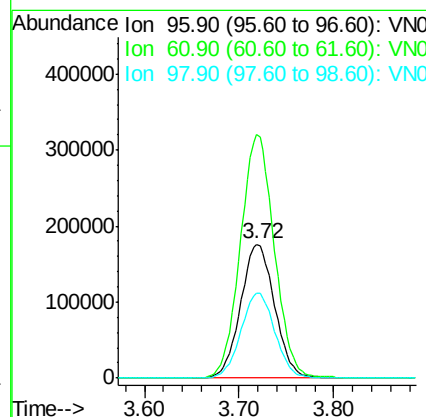
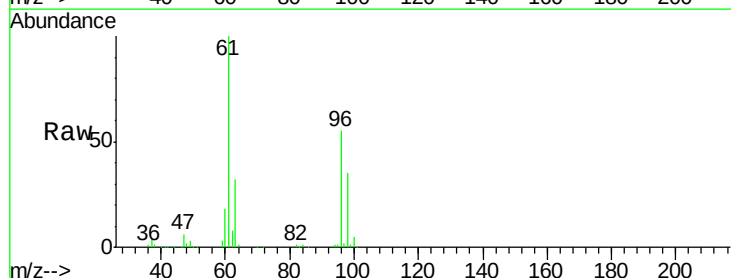
Instrument :
MSVOA_N
ClientSampleId :

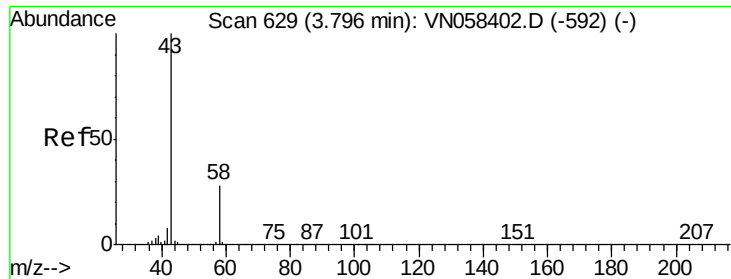
Tot Ion: 59 Resp: 516
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#12
1,1-Dichloroethene
Concen: 101.938 ug/l
RT: 3.72 min Scan# 605
Delta R.T. 0.00 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

Tgt Ion: 96 Resp: 439706
Ion Ratio Lower Upper
96 100
61 181.8 146.7 220.1
98 63.8 51.3 76.9





#16

Acetone

Concen: 7.119 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

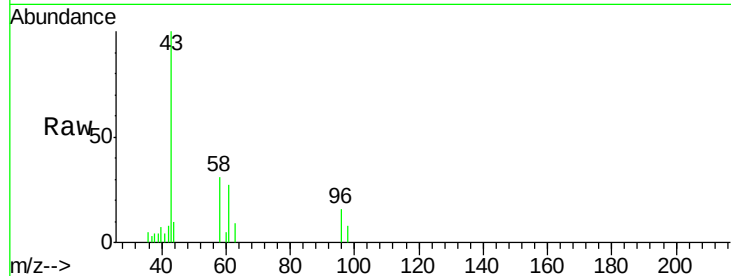
ClientSampleId :

Tot Ion: 43 Resp: 16216

Ion Ratio Lower Upper

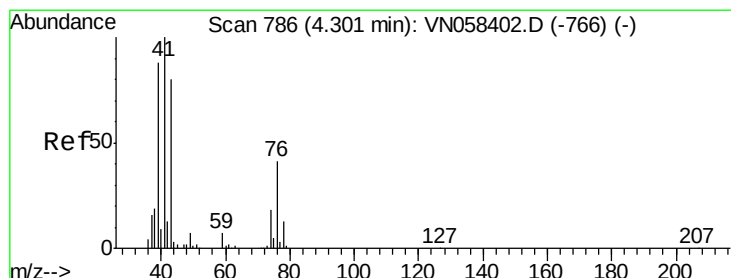
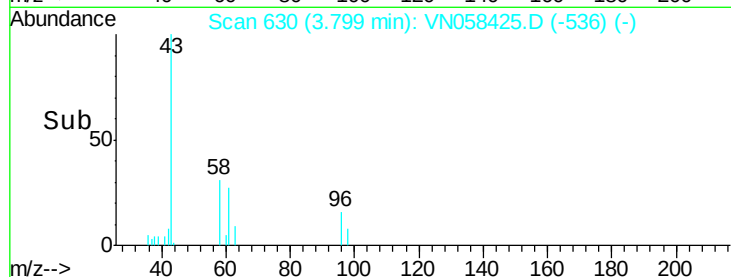
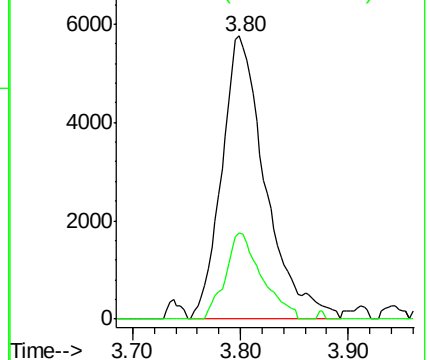
43 100

58 30.6 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.479 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.02 min

Lab File: VN058425.D

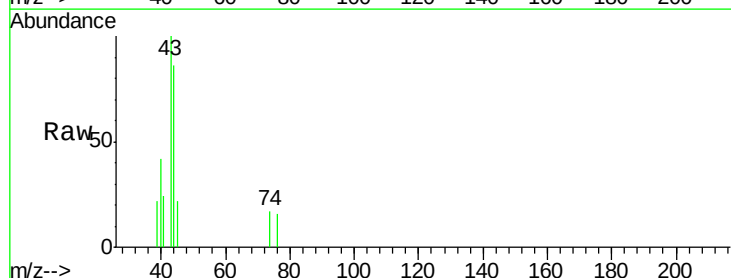
Acq: 30 Sep 2019 11:31

Tgt Ion: 43 Resp: 2747

Ion Ratio Lower Upper

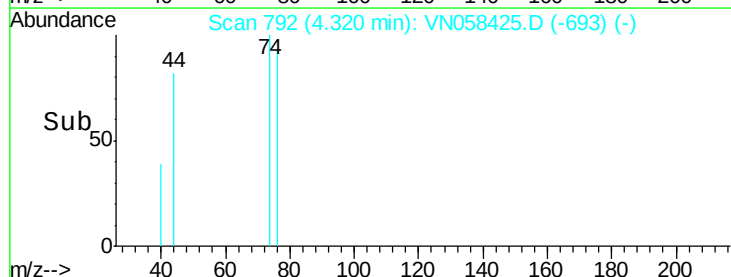
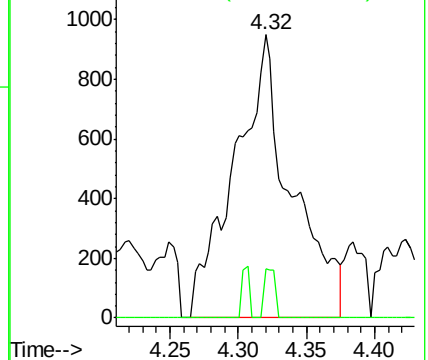
43 100

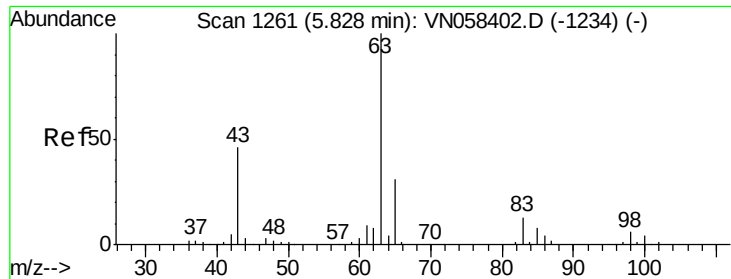
74 3.4 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#24

1,1-Dichloroethane

Concen: 38.109 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

ClientSampled :

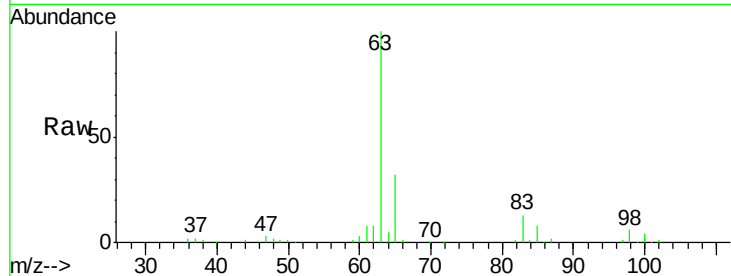
Tot Ion: 63 Resp: 362299

Ion Ratio Lower Upper

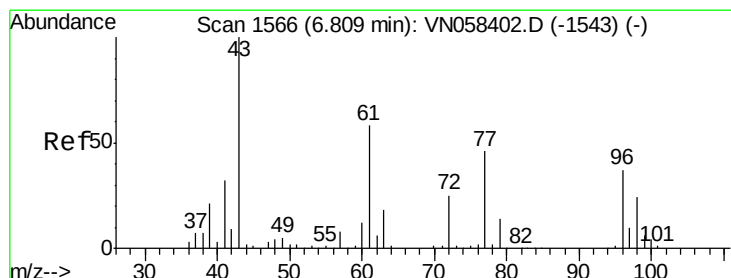
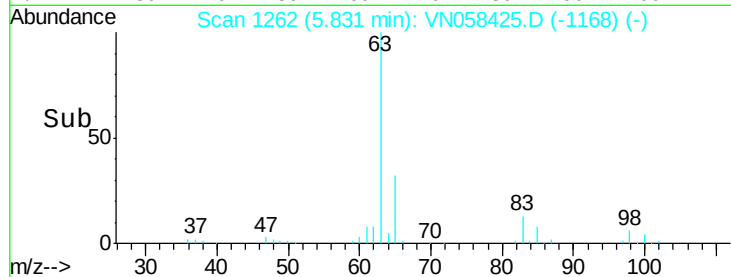
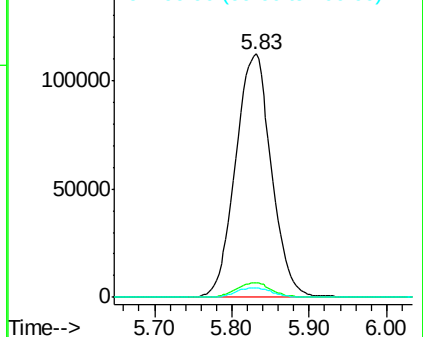
63 100

98 6.0 3.0 9.0

100 3.9 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 8.150 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

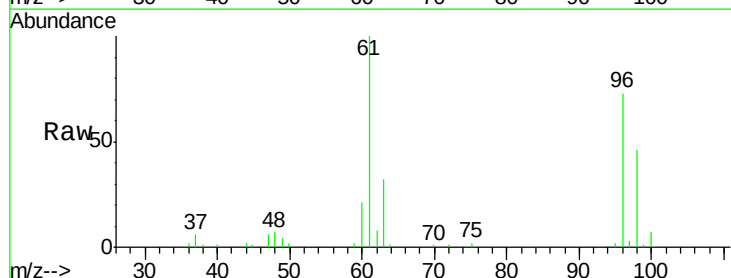
Tgt Ion: 96 Resp: 45690

Ion Ratio Lower Upper

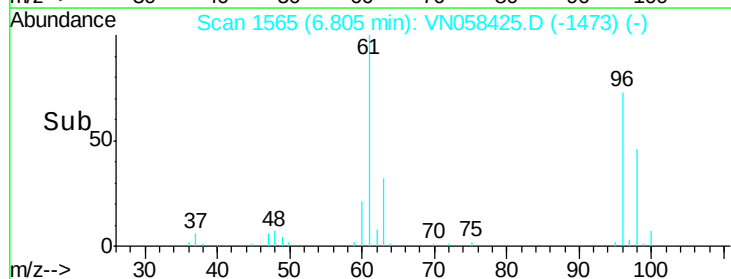
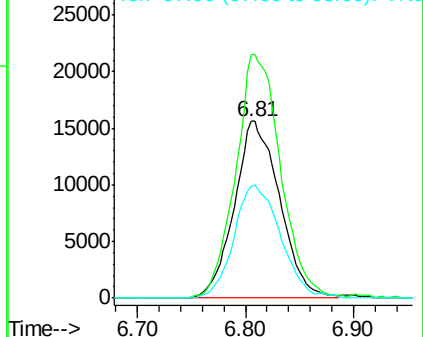
96 100

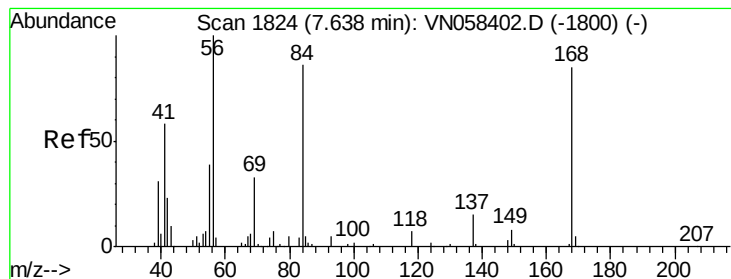
61 136.6 0.0 318.8

98 65.6 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: 1.175 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :
MSVOA_N
ClientSampled :

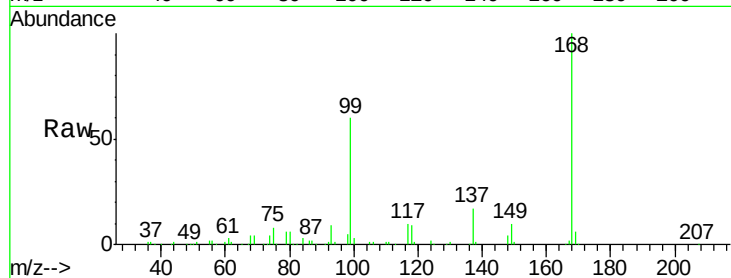
Tot Ion: 56 Resp: 10865

Ion Ratio Lower Upper

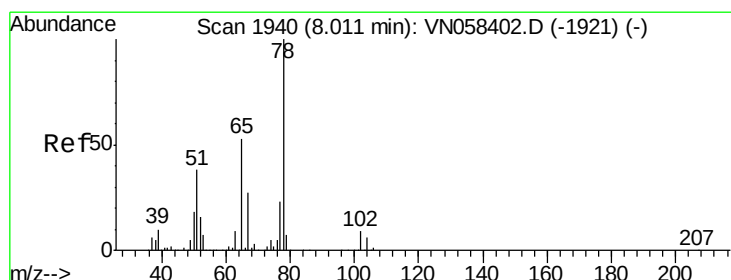
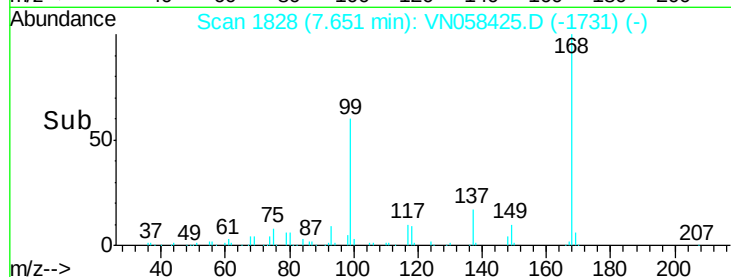
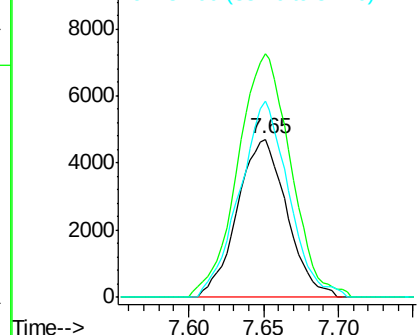
56 100

69 150.1 26.2 39.4#

84 123.8 67.6 101.4#



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



#33

1,2-Dichloroethane-d4

Concen: 48.247 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058425.D

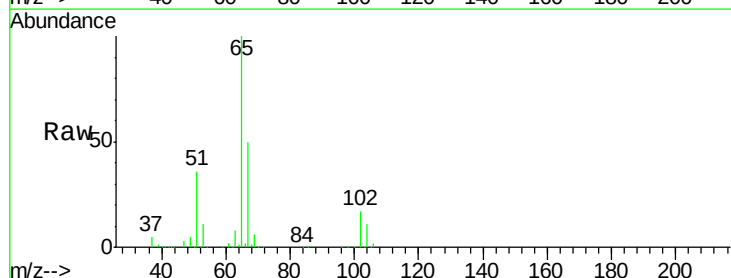
Acq: 30 Sep 2019 11:31

Tgt Ion: 65 Resp: 322385

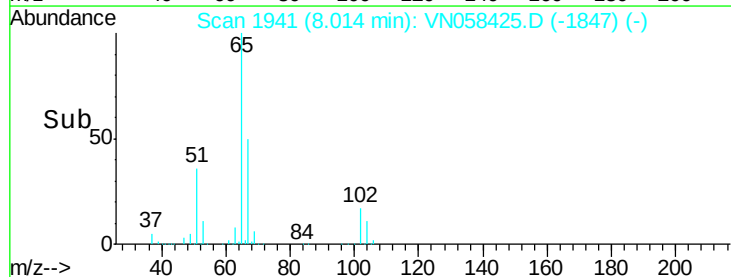
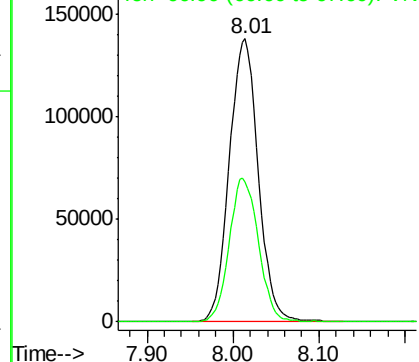
Ion Ratio Lower Upper

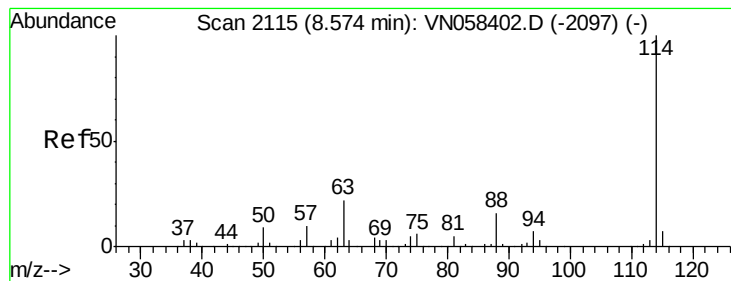
65 100

67 51.2 0.0 102.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

ClientSampleId :

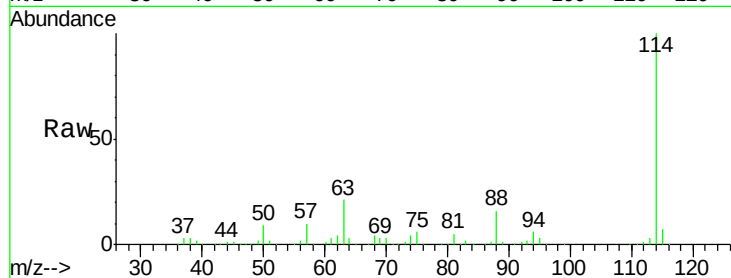
Tot Ion:114 Resp: 739706

Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.0

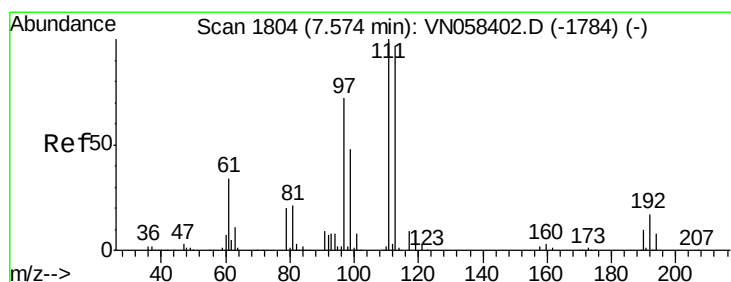
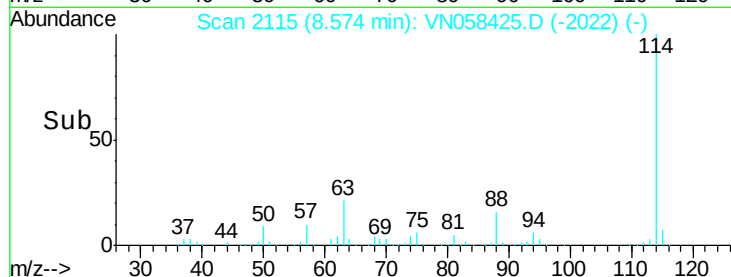
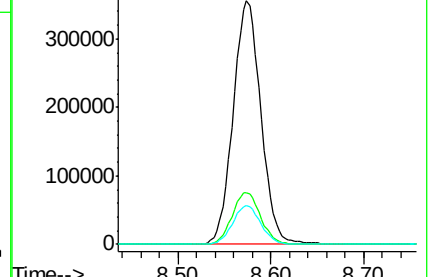
88 16.0 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.418 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

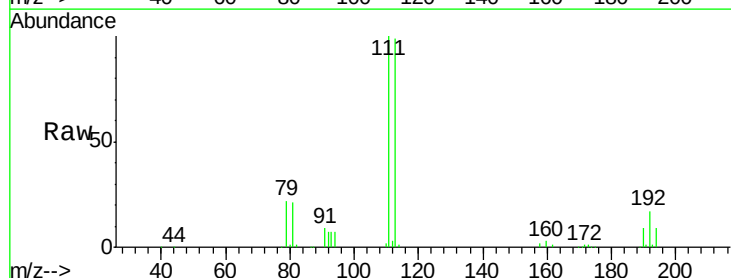
Tgt Ion:113 Resp: 228575

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.2

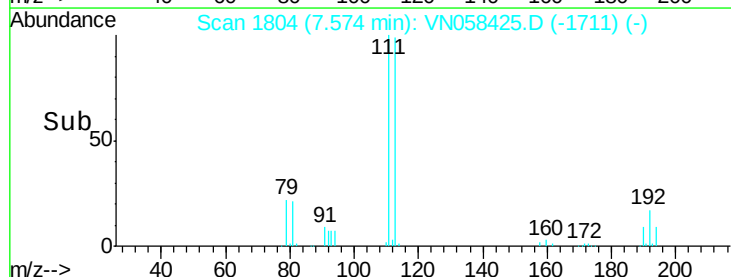
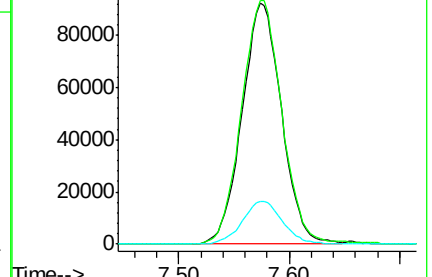
192 18.0 14.9 22.3

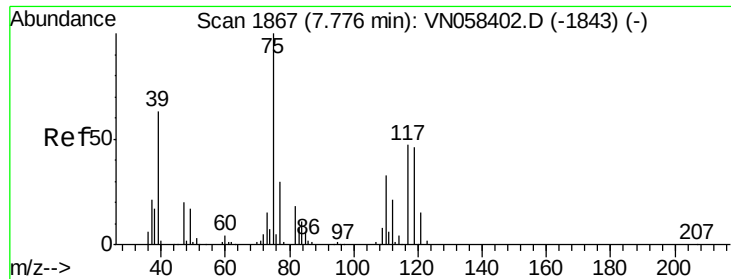


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

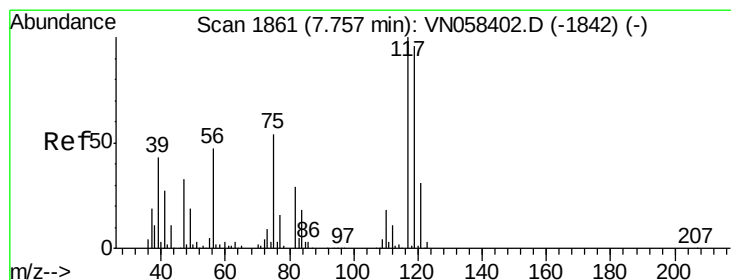
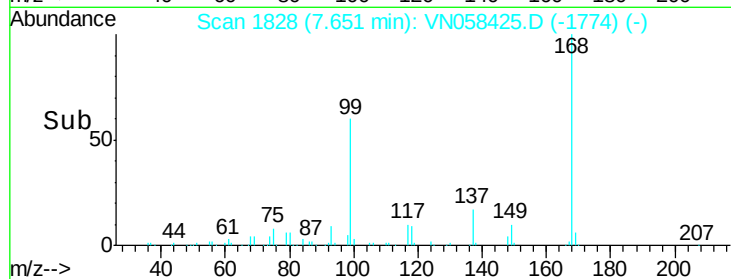
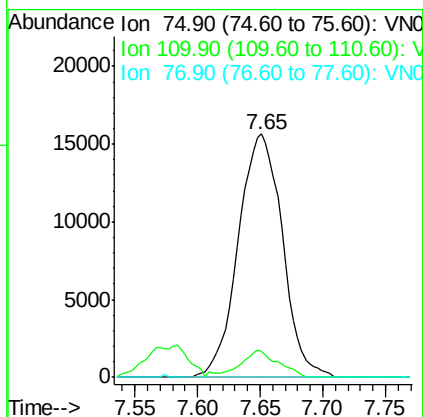
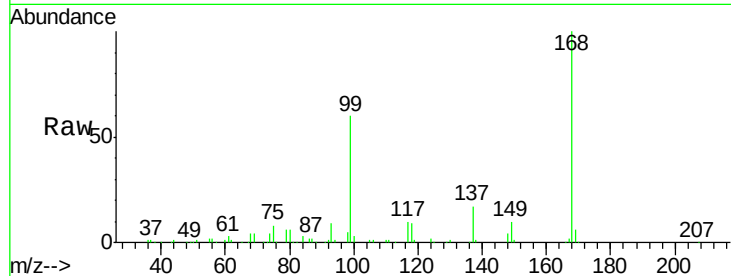




#36
 1,1-Dichloropropene
 Concen: 5.407 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058425.D
 Acq: 30 Sep 2019 11:31

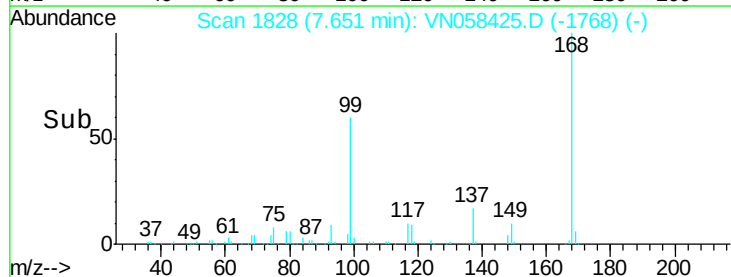
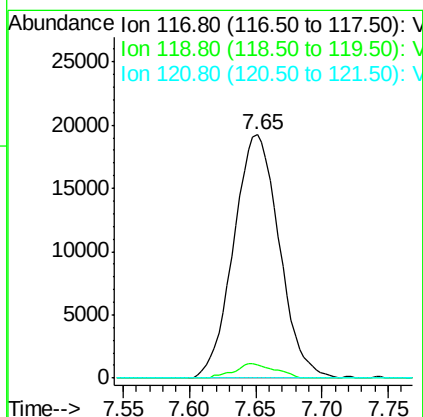
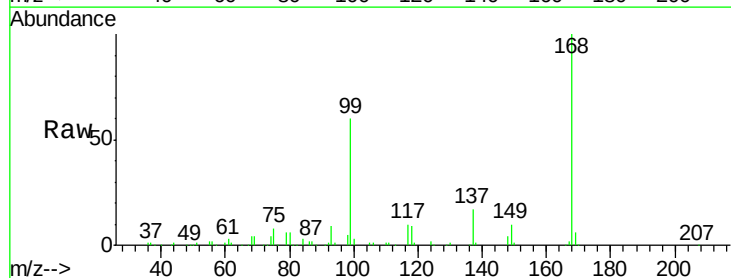
Instrument :
 MSVOA_N
 ClientSampled :

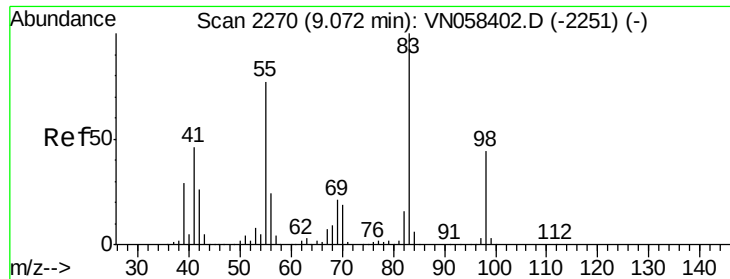
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.184 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058425.D
 Acq: 30 Sep 2019 11:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.6	115.0#
121	0.0	24.7	37.1#

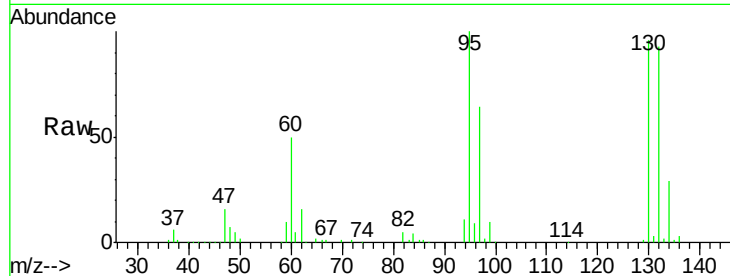




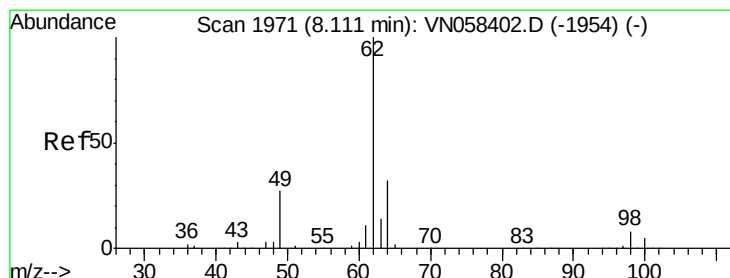
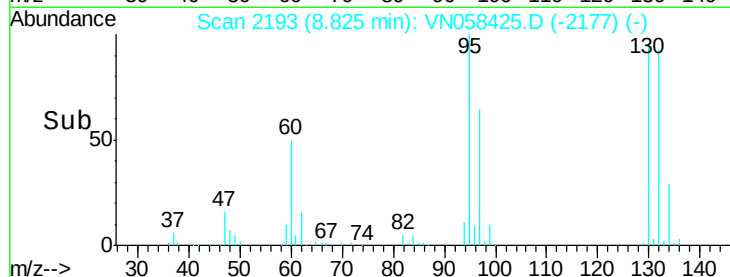
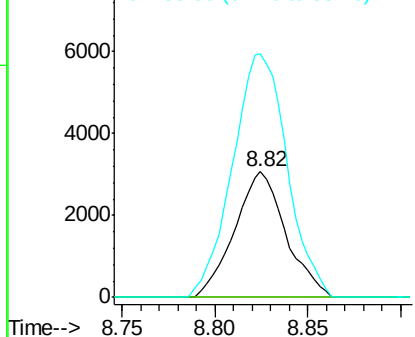
#39
Methylcyclohexane
Concen: 0.713 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.25 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 83 Resp: 5891
Ion Ratio Lower Upper
83 100
55 0.0 61.8 92.6#
98 194.2 35.4 53.0#

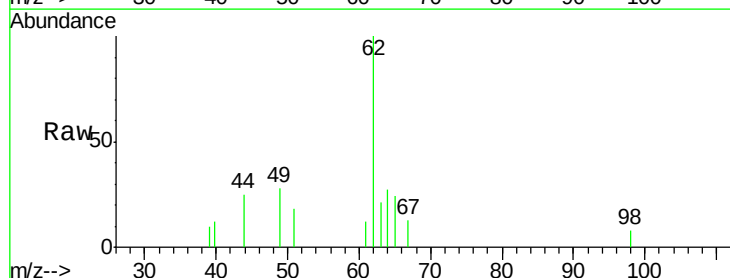


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

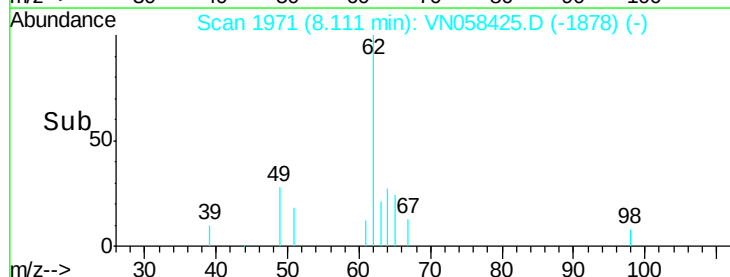
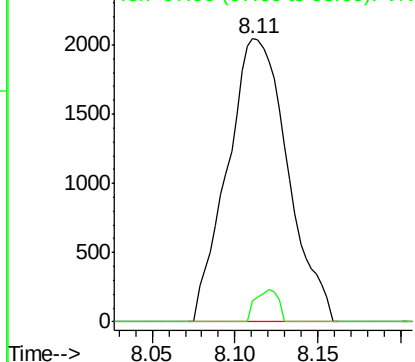


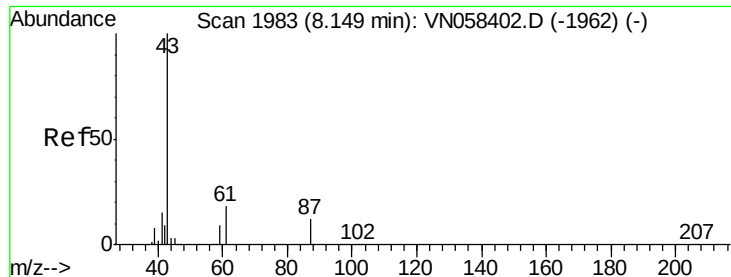
#42
1,2-Dichloroethane
Concen: 0.655 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

Tgt Ion: 62 Resp: 5184
Ion Ratio Lower Upper
62 100
98 4.3 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 1.115 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.12 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

ClientSampled :

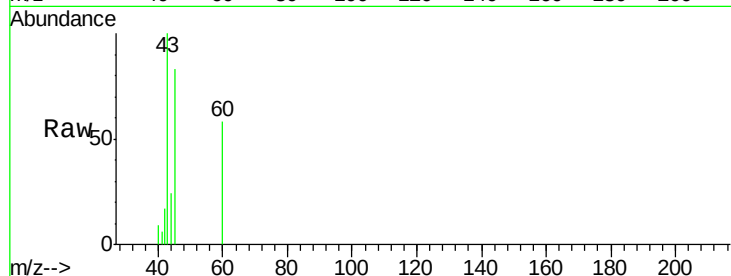
Tot Ion: 43 Resp: 12578

Ion Ratio Lower Upper

43 100

61 0.0 14.8 22.2#

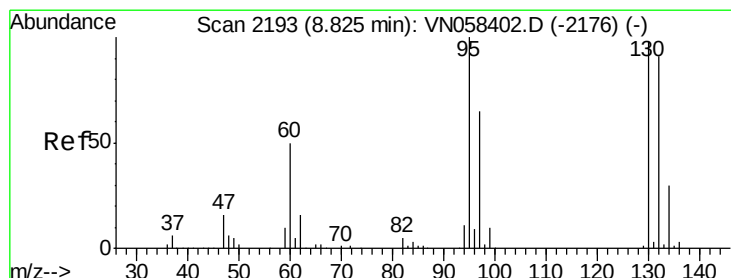
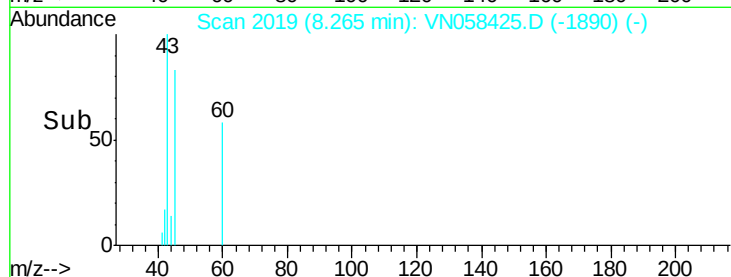
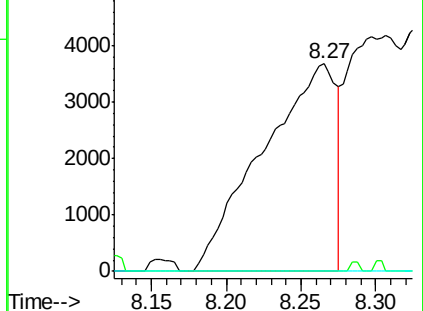
87 0.0 9.7 14.5#



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058402.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058402.D (-1962) (-)



#44

Trichloroethene

Concen: 94.334 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058425.D

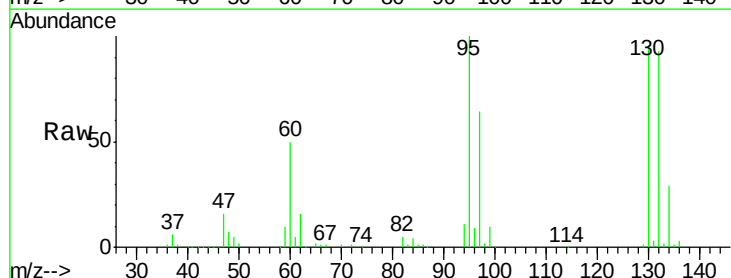
Acq: 30 Sep 2019 11:31

Tgt Ion: 130 Resp: 473571

Ion Ratio Lower Upper

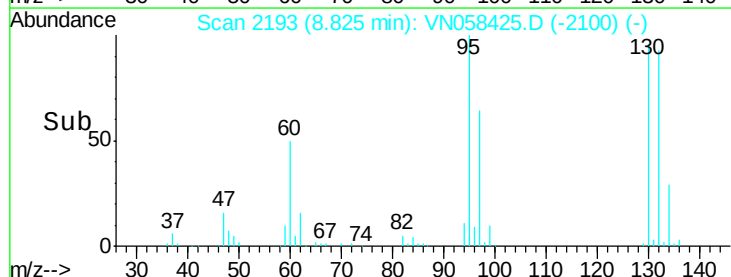
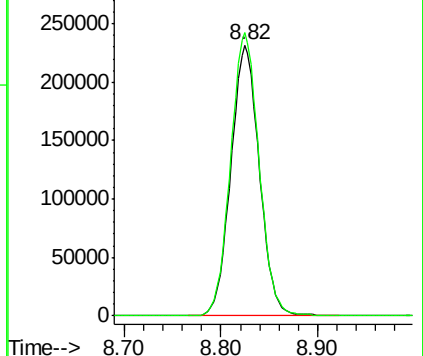
130 100

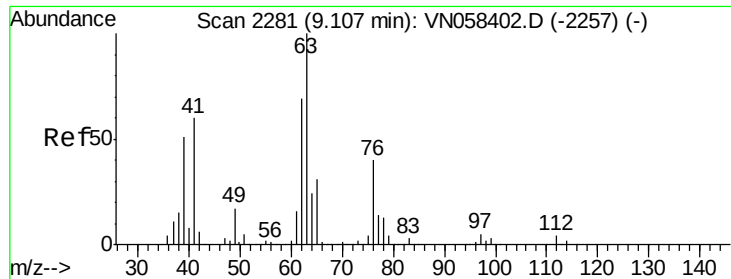
95 104.6 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): VN058402.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058402.D (-2176) (-)

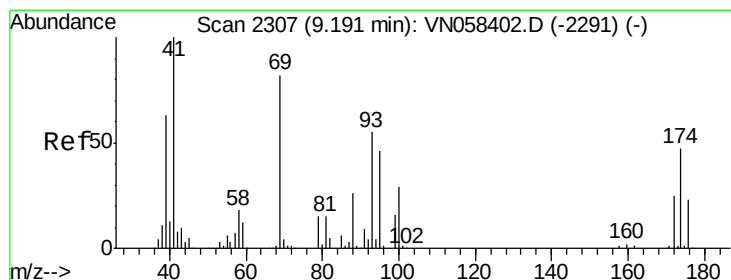
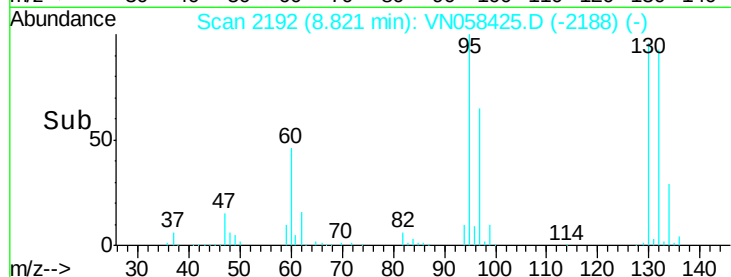
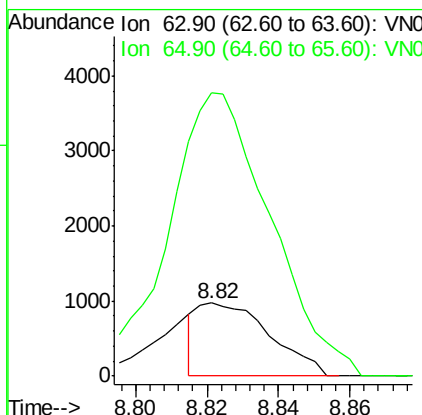
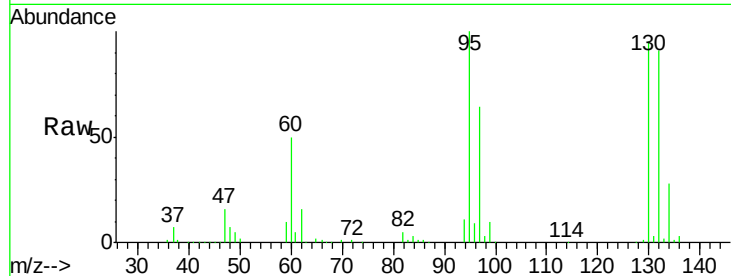




#45
 1,2-Dichloropropane
 Concen: 0.251 ug/l
 RT: 8.82 min Scan# 2192
 Delta R.T. -0.29 min
 Lab File: VN058425.D
 Acq: 30 Sep 2019 11:31

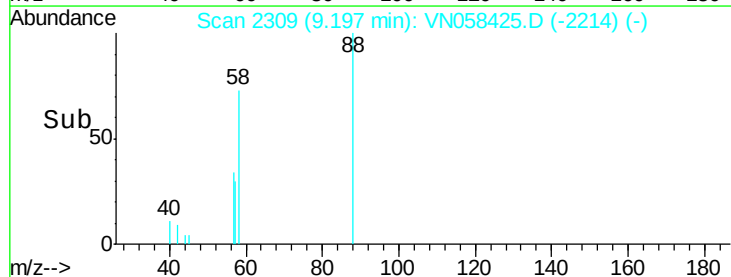
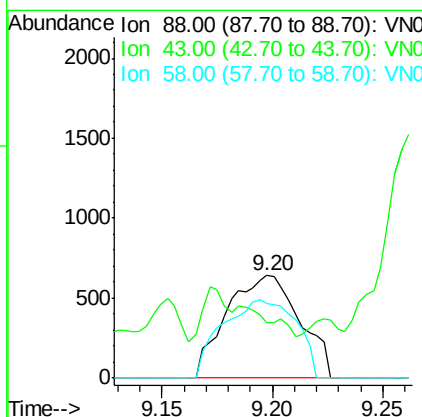
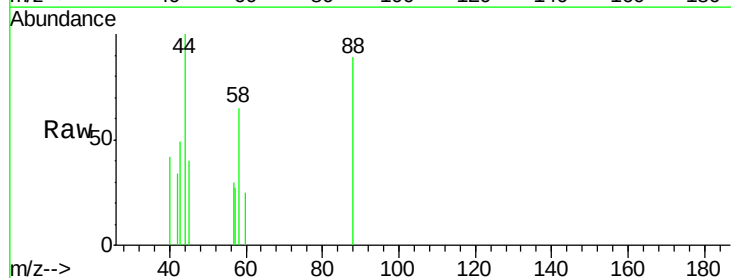
Instrument :
 MSVOA_N
 ClientSampled :

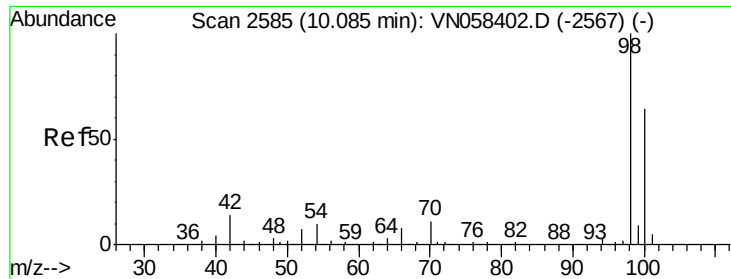
Tot Ion: 63 Resp: 1371
 Ion Ratio Lower Upper
 63 100
 65 352.5 25.0 37.4#



#49
 1,4-Dioxane
 Concen: 21.410 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.01 min
 Lab File: VN058425.D
 Acq: 30 Sep 2019 11:31

Tgt Ion: 88 Resp: 1470
 Ion Ratio Lower Upper
 88 100
 43 0.0 31.1 46.7#
 58 76.9 58.1 87.1

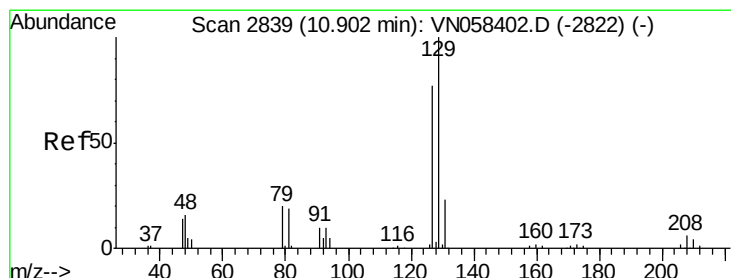
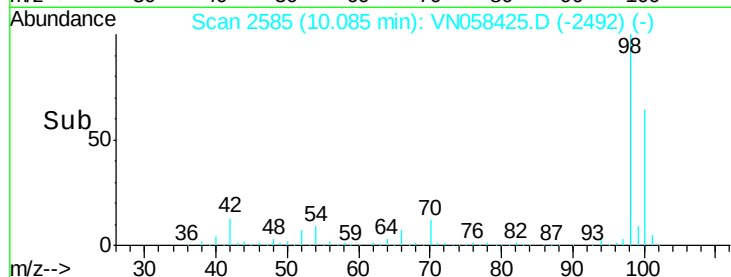
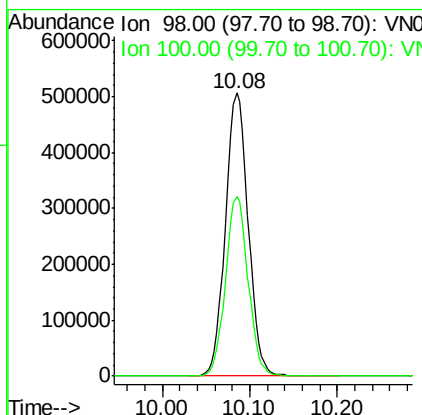
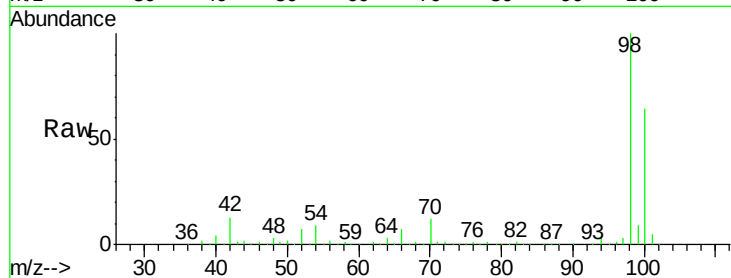




#50
Toluene-d8
Concen: 51.732 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

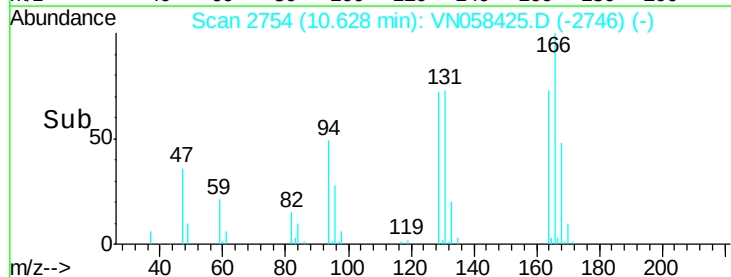
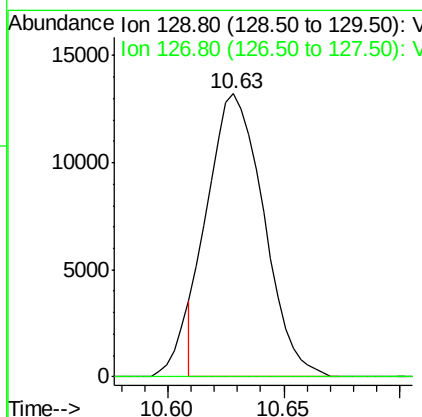
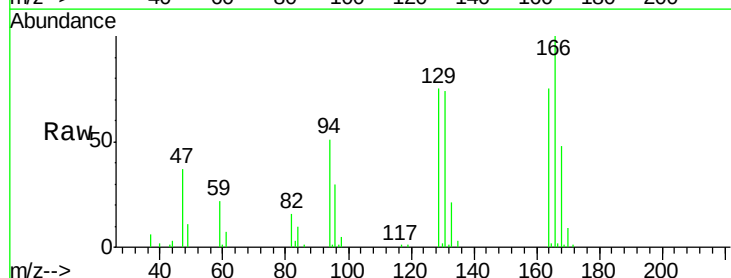
Instrument :
MSVOA_N
ClientSampled :

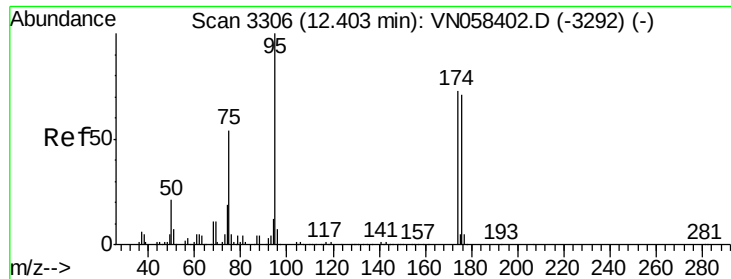
Tot Ion: 98 Resp: 918752
Ion Ratio Lower Upper
98 100
100 63.1 51.0 76.6



#60
Dibromochloromethane
Concen: 4.077 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

Tgt Ion: 129 Resp: 22124
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#

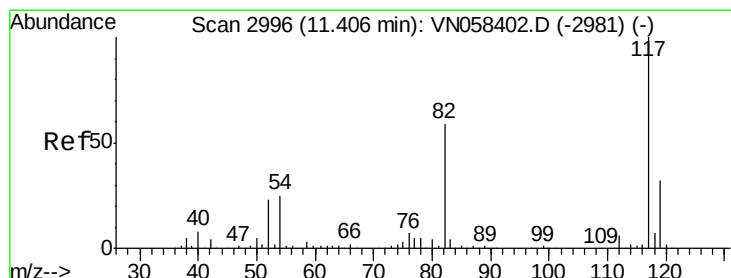
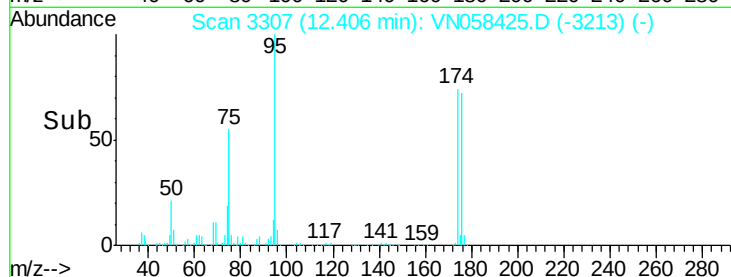
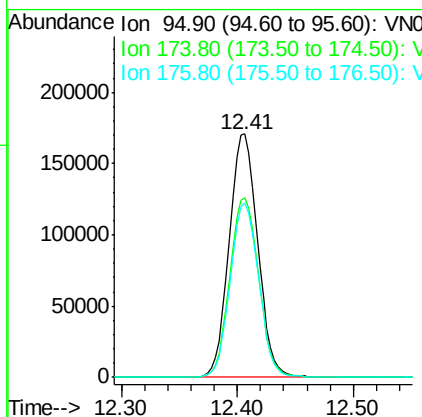
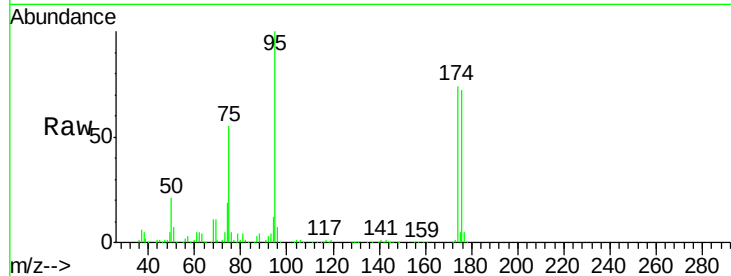




#62
4-Bromofluorobenzene
Concen: 45.128 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

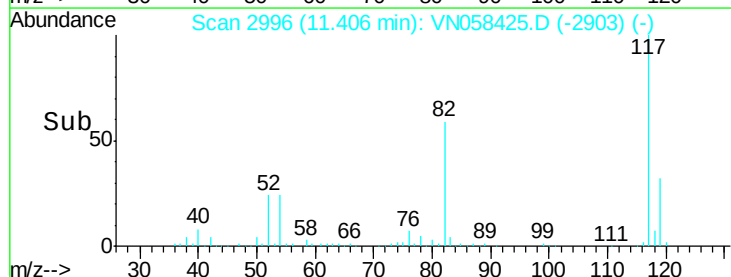
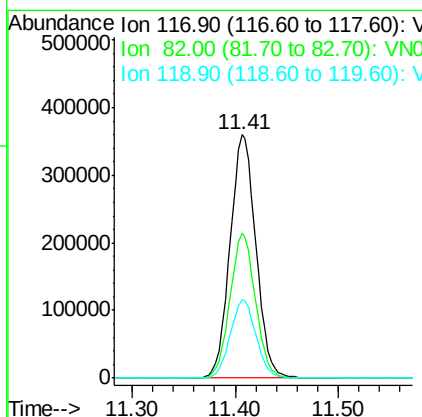
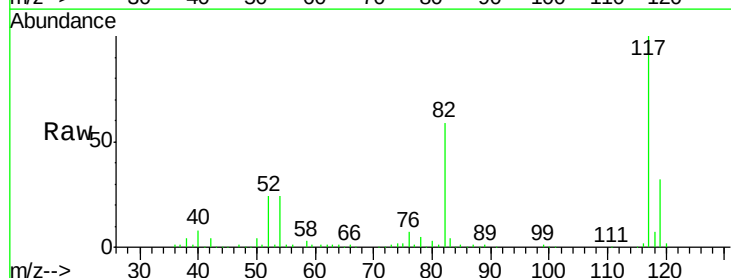
Instrument :
MSVOA_N
ClientSampled :

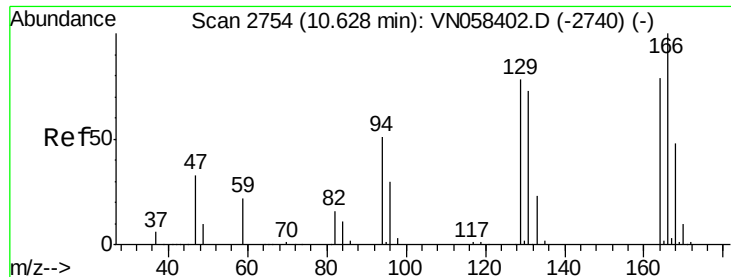
Tot Ion	95	Resp	289797
Ion Ratio	Lower	Upper	
95	100		
174	74.7	0.0	150.6
176	71.5	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058425.D
Acq: 30 Sep 2019 11:31

Tgt Ion	117	Resp	628062
Ion Ratio	Lower	Upper	
117	100		
82	59.4	47.4	71.0
119	32.2	25.5	38.3





#64

Tetrachloroethene

Concen: 5.705 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 22763

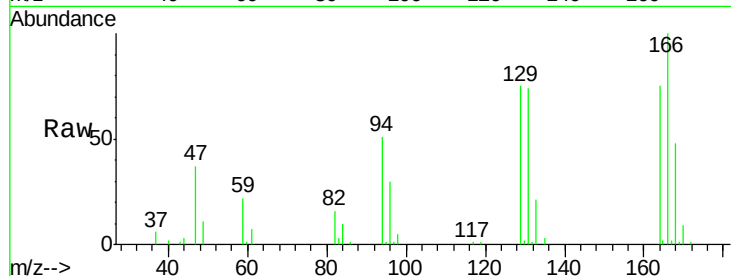
Ion Ratio Lower Upper

164 100

166 134.1 101.1 151.7

129 100.4 79.2 118.8

131 98.6 74.1 111.1

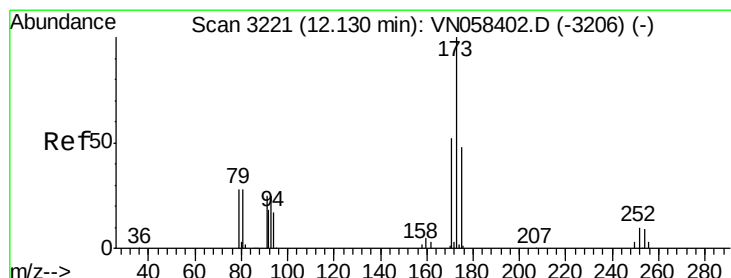
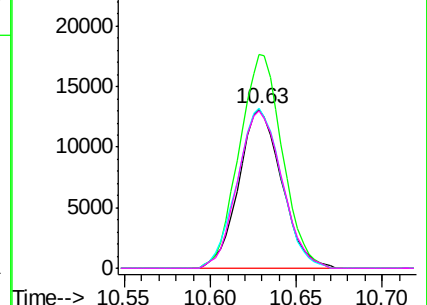
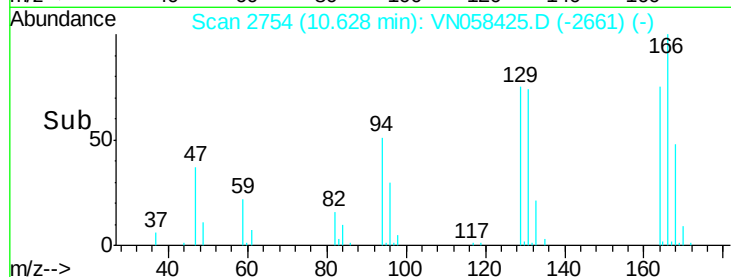


Abundance Ion 163.80 (163.50 to 164.50): V

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: 1.210 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

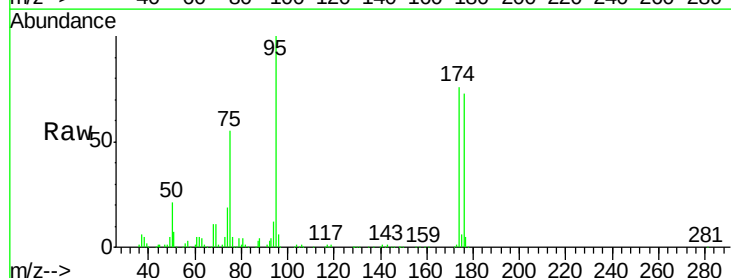
Tgt Ion:173 Resp: 1519

Ion Ratio Lower Upper

173 100

175 866.2 24.3 73.0#

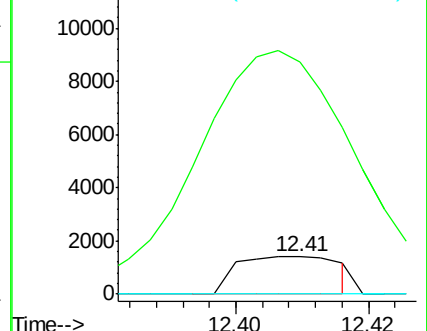
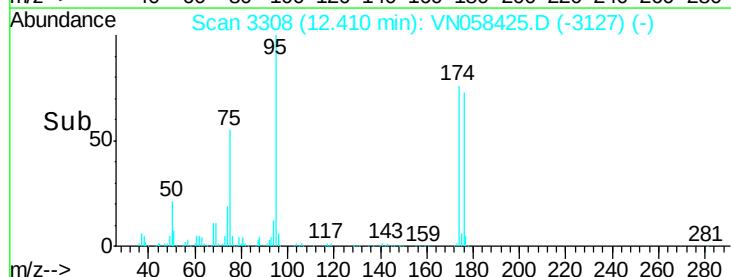
254 0.0 0.1 0.1#

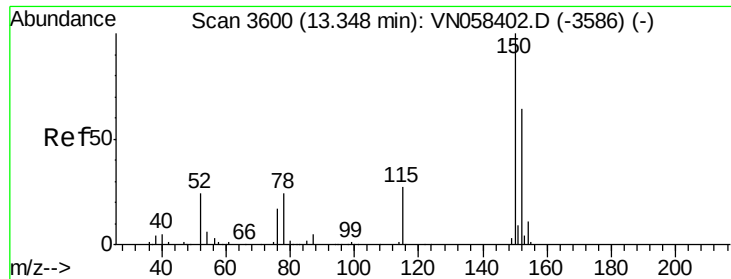


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. 0.00 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

ClientSampleId :

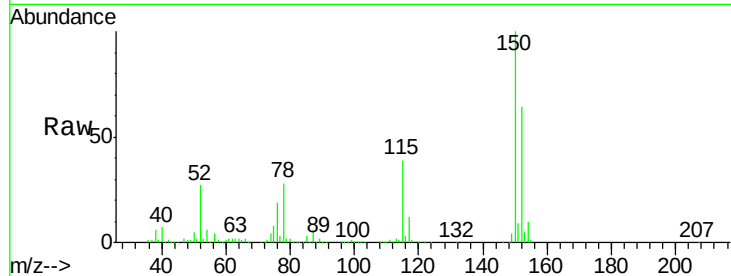
Tot Ion:152 Resp: 243098

Ion Ratio Lower Upper

152 100

115 60.1 30.0 90.0

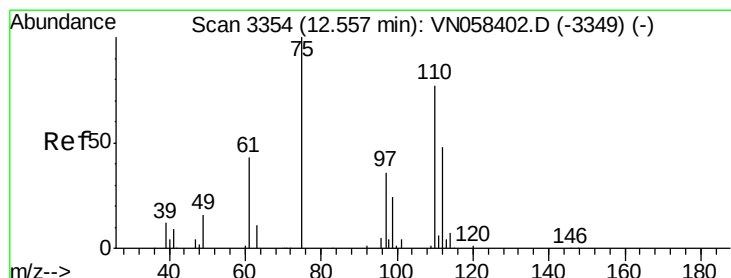
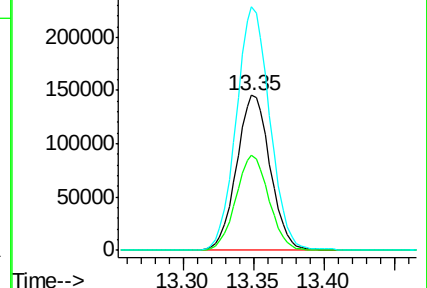
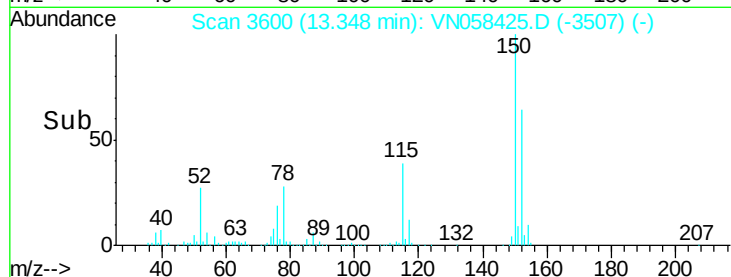
150 157.0 0.0 348.2



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: 35.678 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058425.D

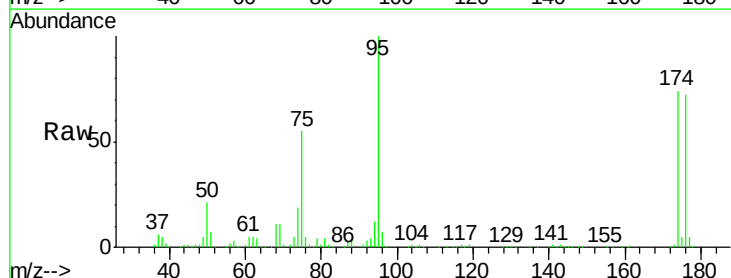
Acq: 30 Sep 2019 11:31

Tgt Ion: 75 Resp: 158417

Ion Ratio Lower Upper

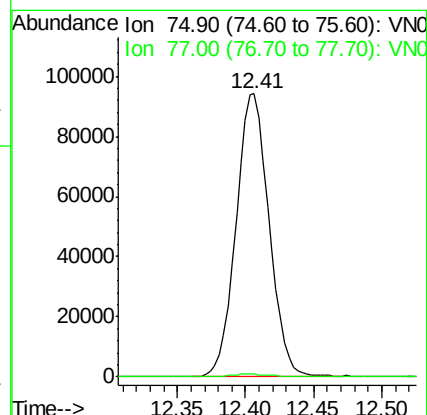
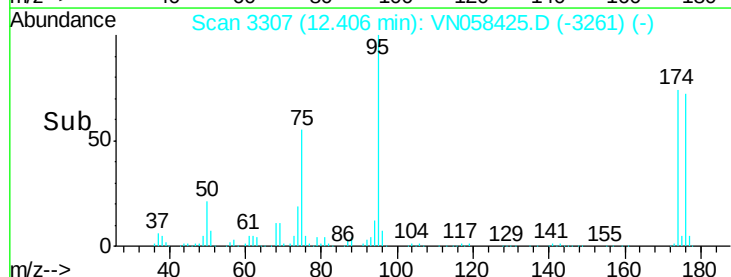
75 100

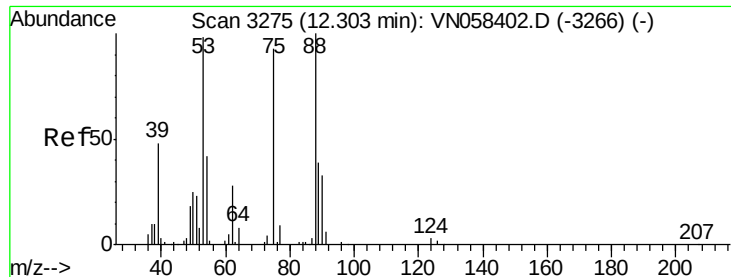
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.358 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058425.D

Acq: 30 Sep 2019 11:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 158417

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#

