

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090219\
 Data File : VN057656.D
 Acq On : 1 Sep 2019 20:16
 Operator : JC/SP
 Sample : K4516-08
 Misc : 5.86g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T1-S-E-(0)

Quant Time: Sep 02 01:58:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	175242	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	306880	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	252554	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	108279	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	217234	54.88	ug/l	0.00
Spiked Amount			Recovery	=	109.76%	
35) Dibromofluoromethane	7.58	113	125399	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	10.09	98	496405	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	12.40	95	158071	40.40	ug/l	0.00
Spiked Amount			Recovery	=	80.80%	

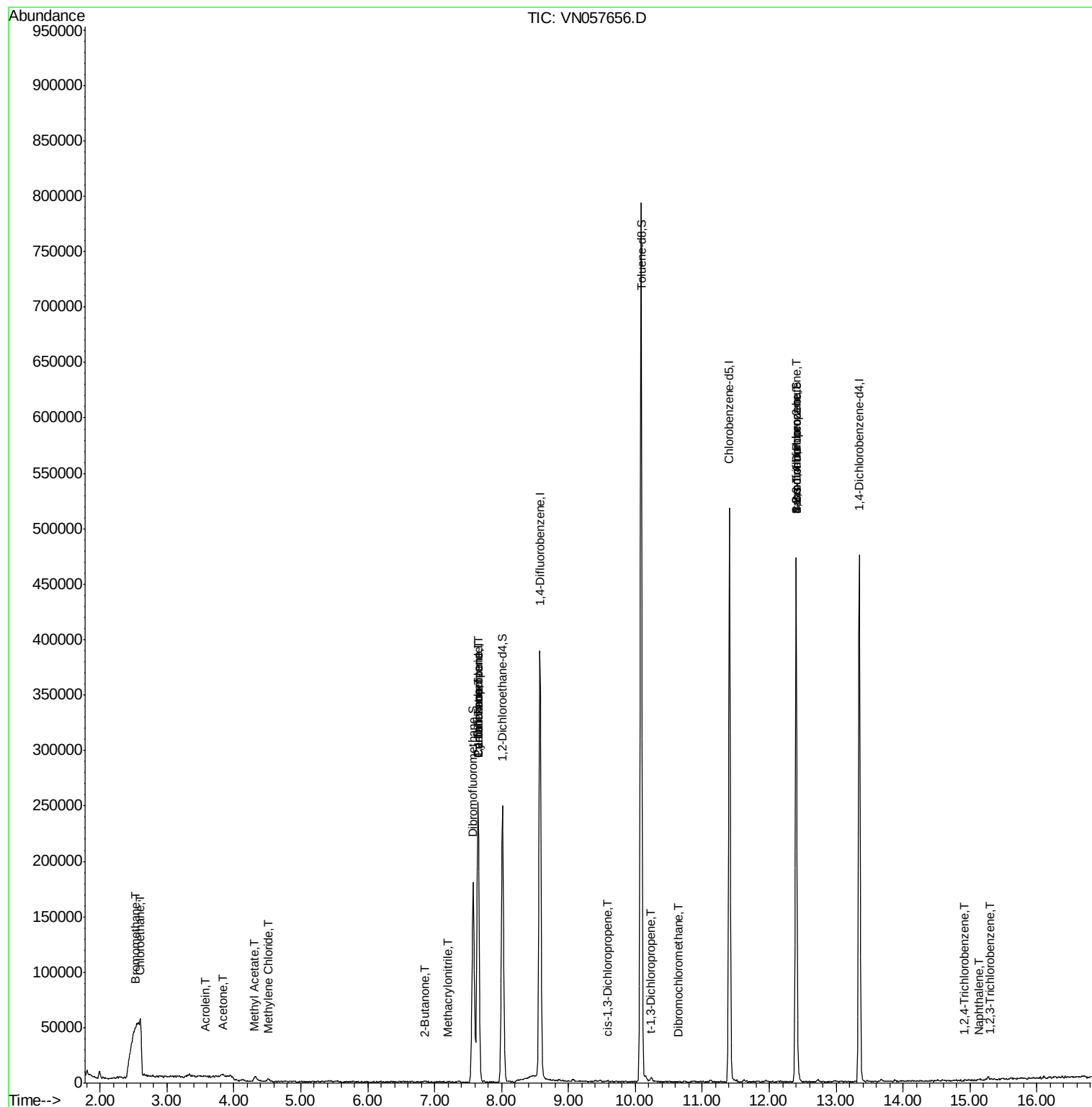
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.51	94	749	0.468	ug/l #	75
6) Chloroethane	2.58	64	300	0.212	ug/l #	44
13) Acrolein	3.58	56	63	0.382	ug/l #	1
16) Acetone	3.83	43	227	0.205	ug/l #	50
18) Methyl Acetate	4.31	43	3988	1.047	ug/l #	84
20) Methylene Chloride	4.51	84	681	0.248	ug/l #	71
25) 2-Butanone	6.84	43	985	0.533	ug/l #	53
31) Cyclohexane	7.64	56	3051	0.582	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	18831	4.628	ug/l #	50
38) Carbon Tetrachloride	7.64	117	21569	5.922	ug/l #	13
41) Methacrylonitrile	7.18	41	29	2.296	ug/l #	1
53) t-1,3-Dichloropropene	10.24	75	1161	3.455	ug/l #	45
54) cis-1,3-Dichloropropene	9.59	75	621	1.930	ug/l #	62
60) Dibromochloromethane	10.63	129	30	3.555	ug/l #	11
71) Bromoform	12.40	173	706	6.596	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	92145	32.352	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	92145	110.896	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.92	180	175	8.389	ug/l	91
95) Naphthalene	15.13	128	809	7.051	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.30	180	112	7.824	ug/l #	77

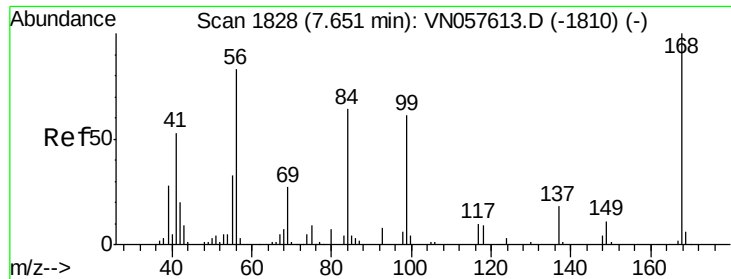
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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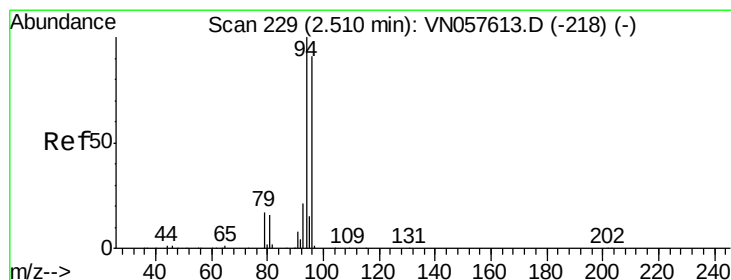
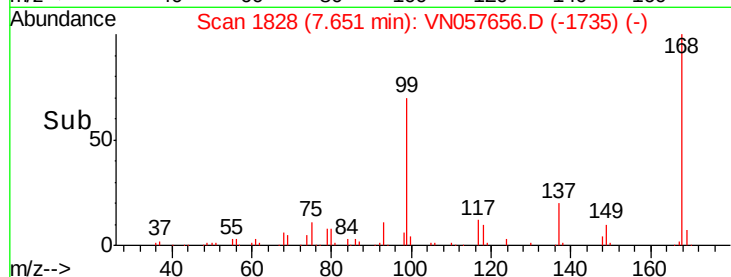
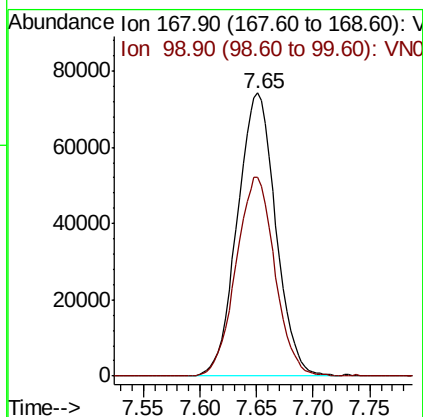
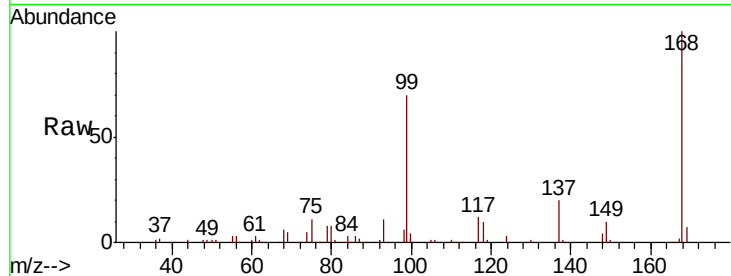




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

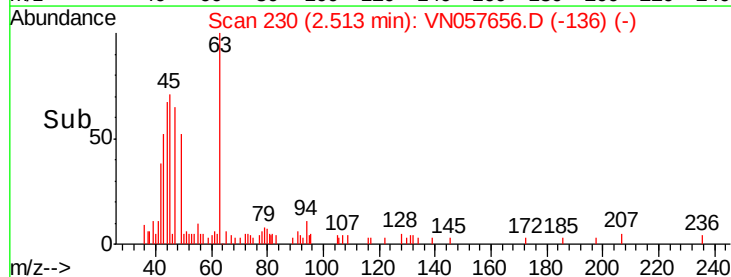
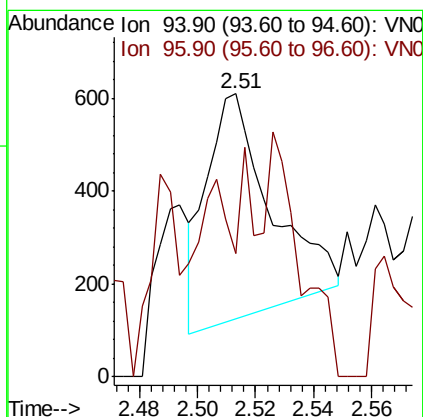
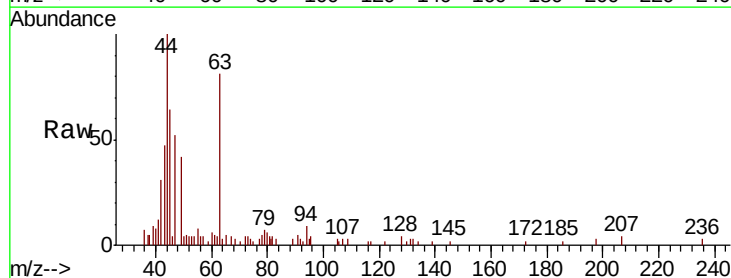
Instrument :
MSVOA_N
ClientSampleId :
T1-S-E-(0)

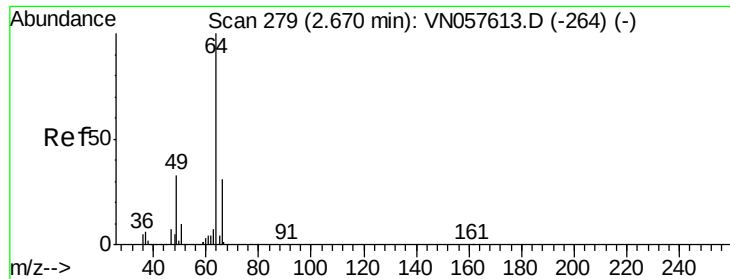
Tgt Ion: 168 Resp: 175242
Ion Ratio Lower Upper
168 100
99 70.3 54.2 81.2



#5
Bromomethane
Concen: 0.468 ug/l
RT: 2.51 min Scan# 230
Delta R.T. 0.00 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion: 94 Resp: 749
Ion Ratio Lower Upper
94 100
96 67.7 72.9 109.3#





#6

Chloroethane

Concen: 0.212 ug/l

RT: 2.58 min Scan# 252

Delta R.T. -0.09 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

Instrument :

MSVOA_N

ClientSampleId :

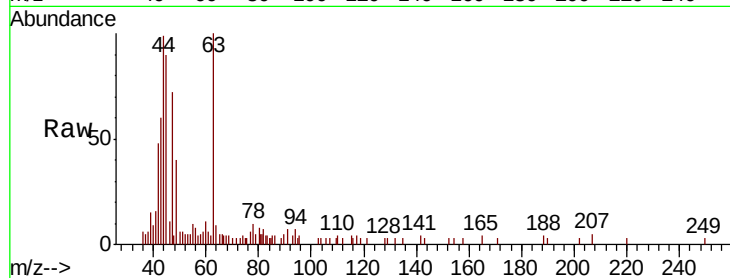
T1-S-E(0)

Tgt Ion: 64 Resp: 300

Ion Ratio Lower Upper

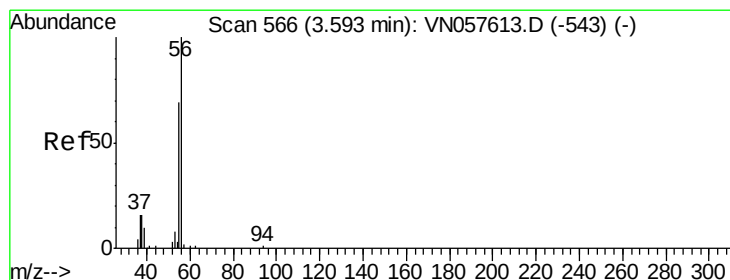
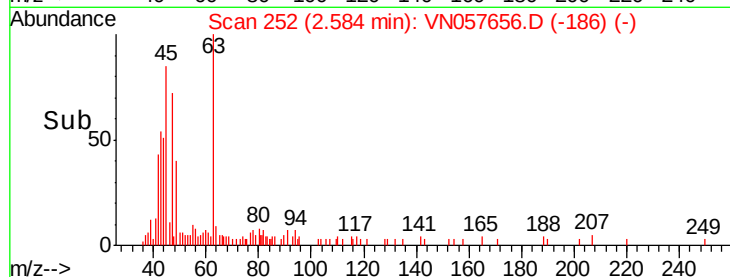
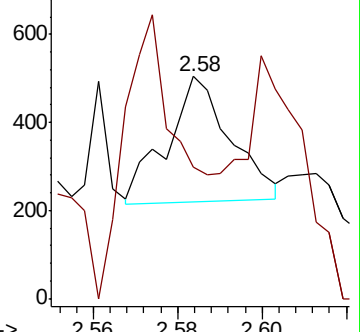
64 100

66 0.0 24.7 37.1#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



#13

Acrolein

Concen: 0.382 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.01 min

Lab File: VN057656.D

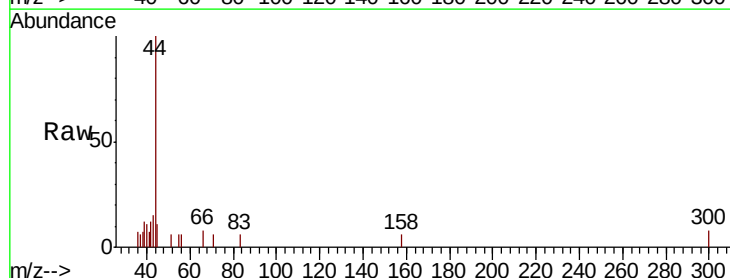
Acq: 1 Sep 2019 20:16

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

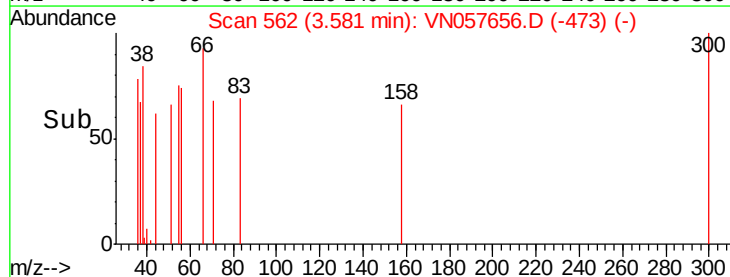
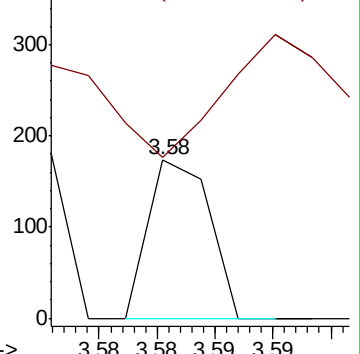
56 100

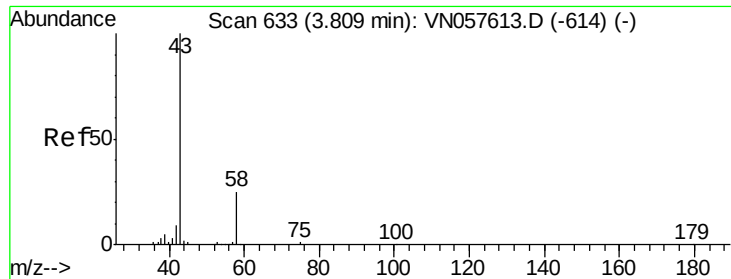
55 633.3 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 0.205 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

Instrument :

MSVOA_N

ClientSampleId :

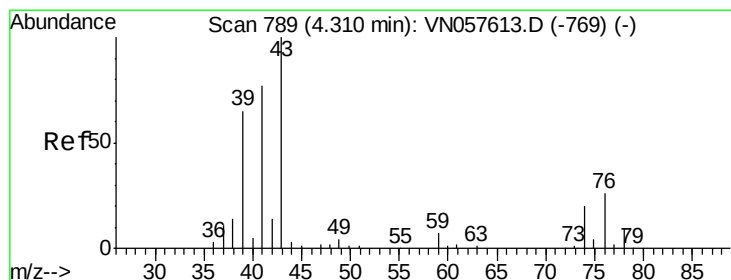
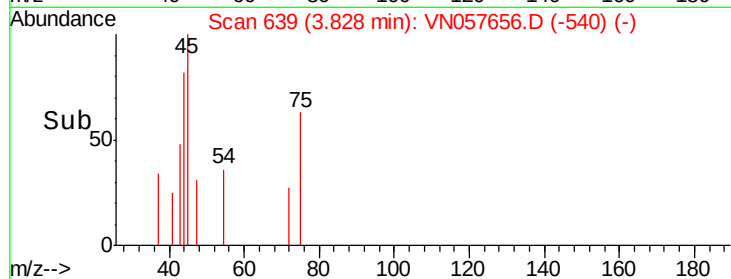
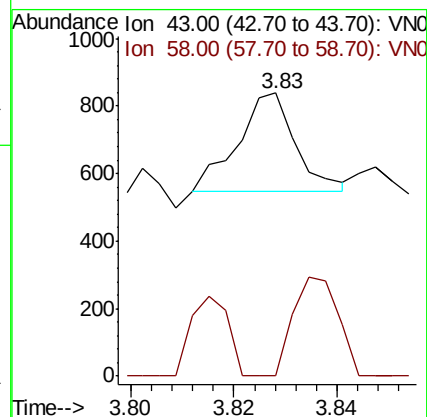
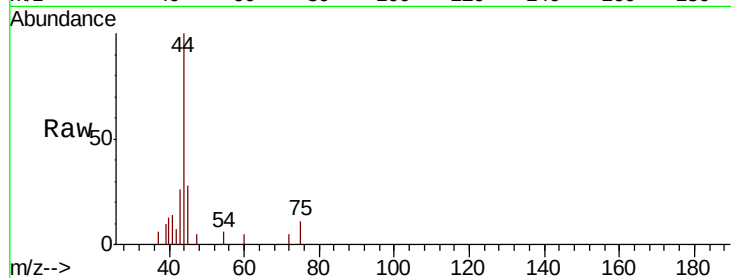
T1-S-E(0)

Tgt Ion: 43 Resp: 227

Ion Ratio Lower Upper

43 100

58 0.0 20.0 30.0#



#18

Methyl Acetate

Concen: 1.047 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN057656.D

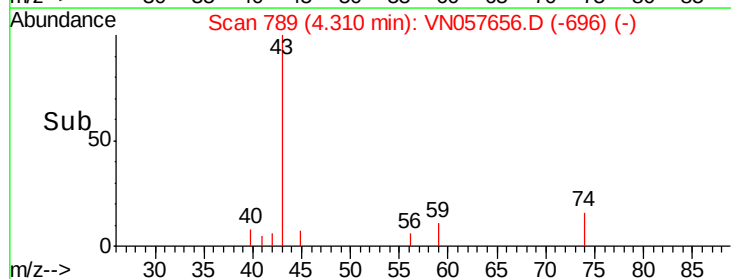
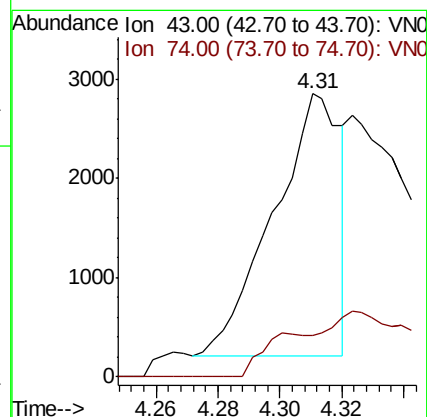
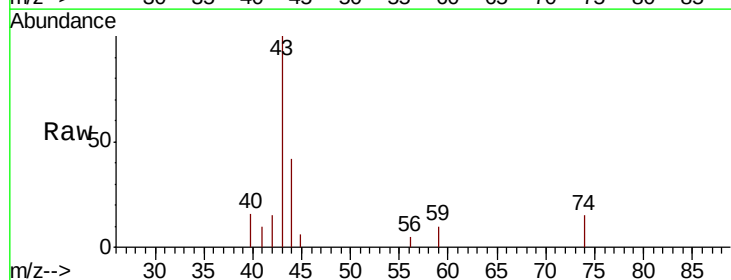
Acq: 1 Sep 2019 20:16

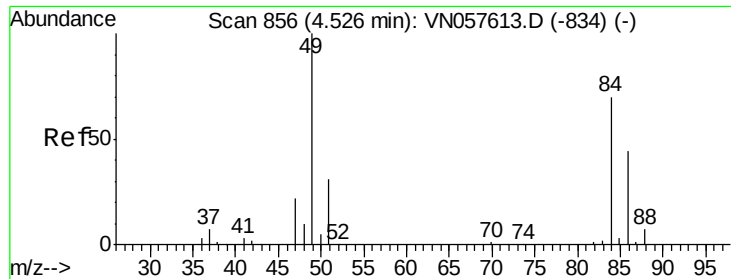
Tgt Ion: 43 Resp: 3988

Ion Ratio Lower Upper

43 100

74 12.3 15.7 23.5#

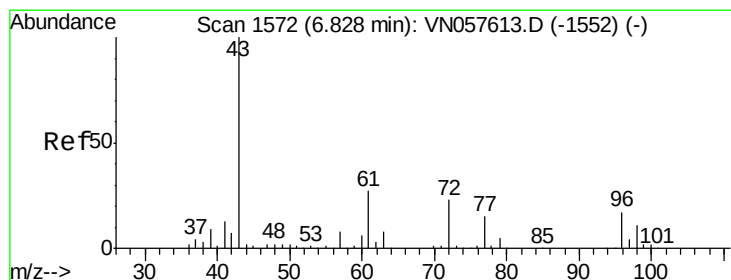
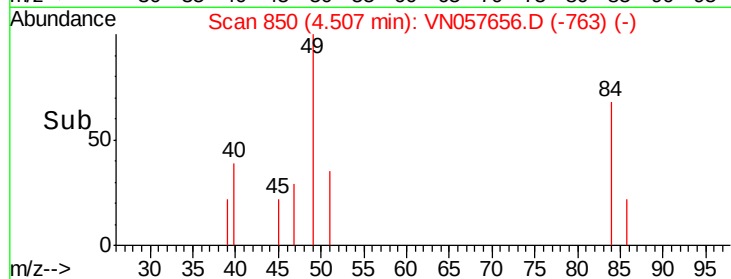
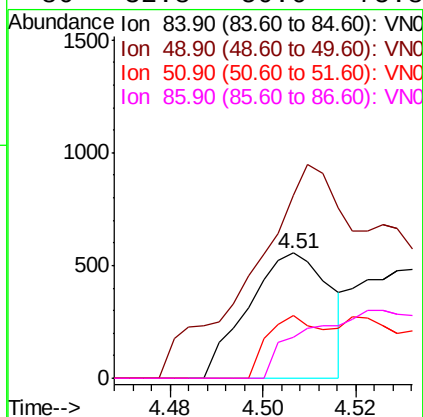
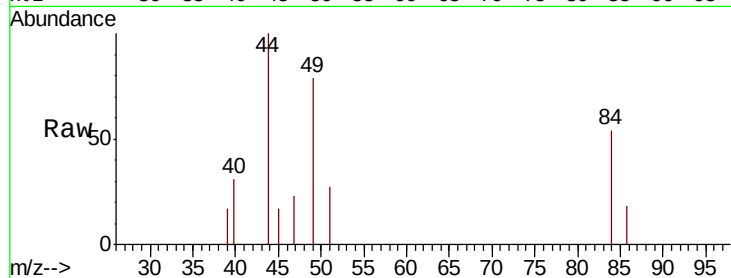




#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 4.51 min Scan# 850
Delta R.T. -0.02 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

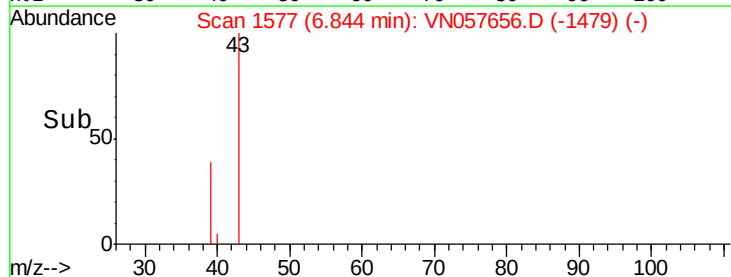
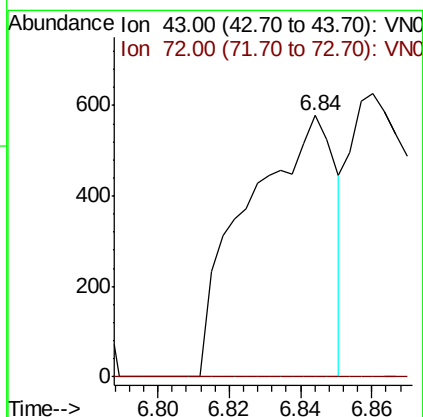
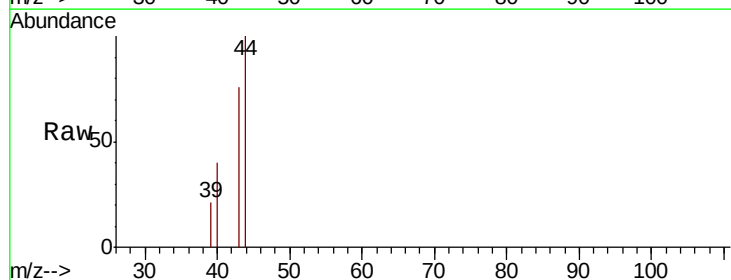
Instrument :
MSVOA_N
ClientSampleId :
T1-S-E(0)

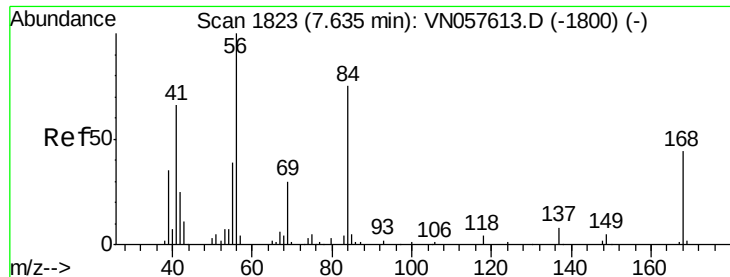
Tgt Ion: 84 Resp: 681
Ion Ratio Lower Upper
84 100
49 105.4 113.8 170.6#
51 50.6 35.0 52.6
86 32.8 50.6 75.8#



#25
2-Butanone
Concen: 0.533 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.02 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion: 43 Resp: 985
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#

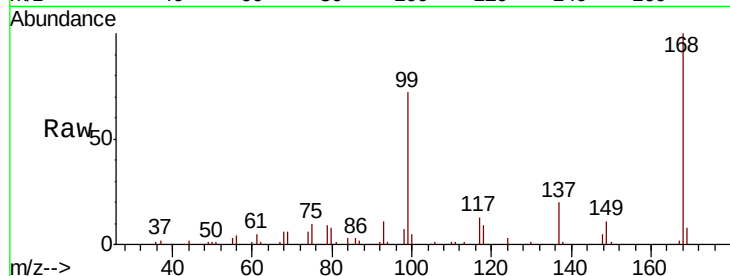




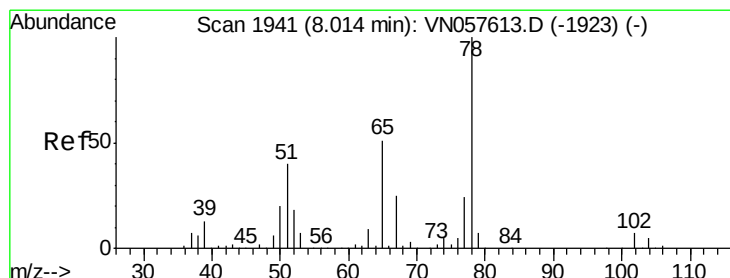
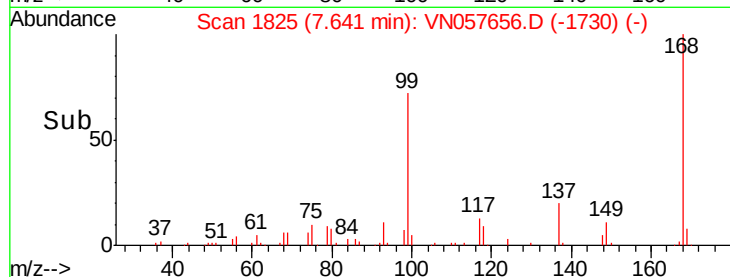
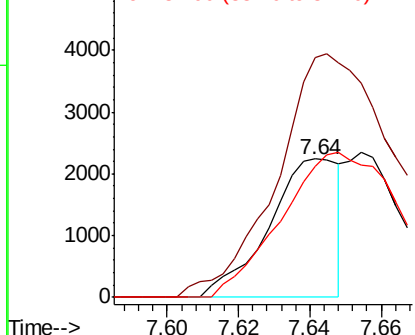
#31
Cyclohexane
Concen: 0.582 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Instrument :
MSVOA_N
ClientSampled :
T1-S-E(0)

Tgt Ion: 56 Resp: 3051
Ion Ratio Lower Upper
56 100
69 165.8 24.4 36.6#
84 95.2 59.9 89.9#

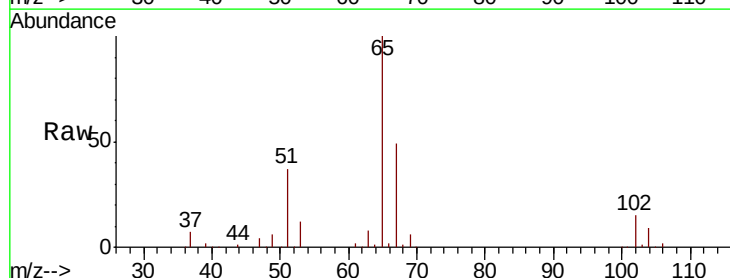


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

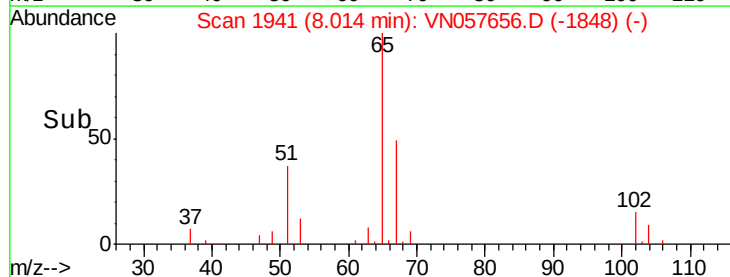
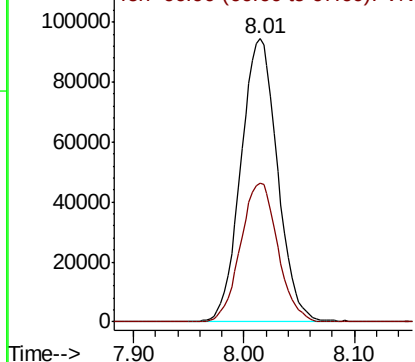


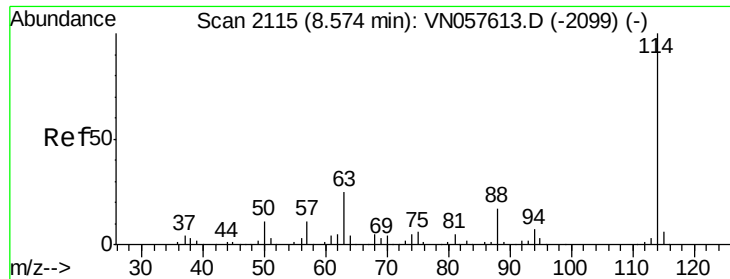
#33
1,2-Dichloroethane-d4
Concen: 54.875 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion: 65 Resp: 217234
Ion Ratio Lower Upper
65 100
67 49.8 0.0 102.2



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

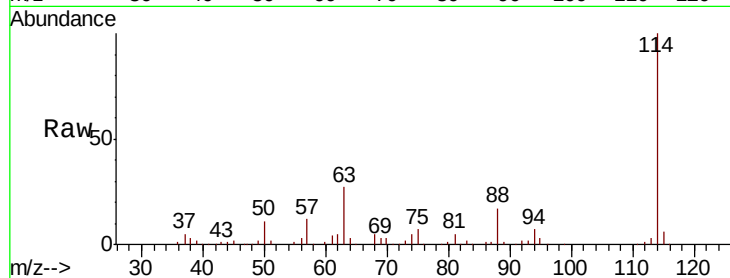




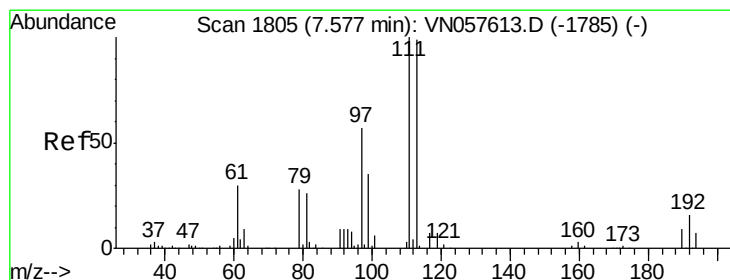
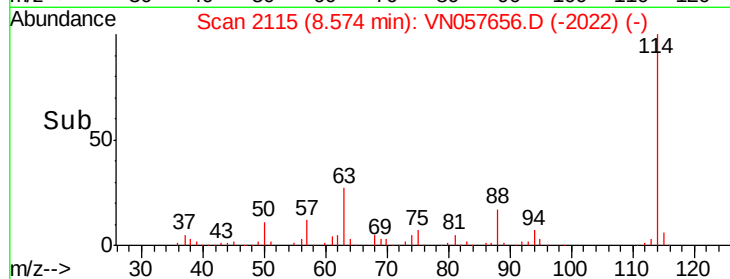
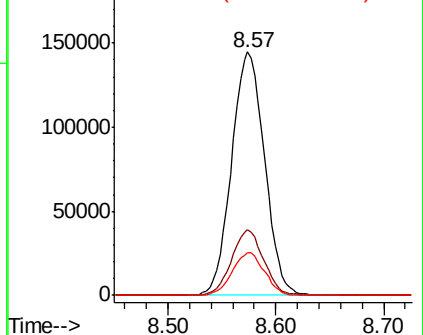
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057656.D
 Acq: 1 Sep 2019 20:16

Instrument :
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 T1-S-E(0)

Tgt Ion:114 Resp: 306880
 Ion Ratio Lower Upper
 114 100
 63 27.0 0.0 49.0
 88 17.4 0.0 33.0

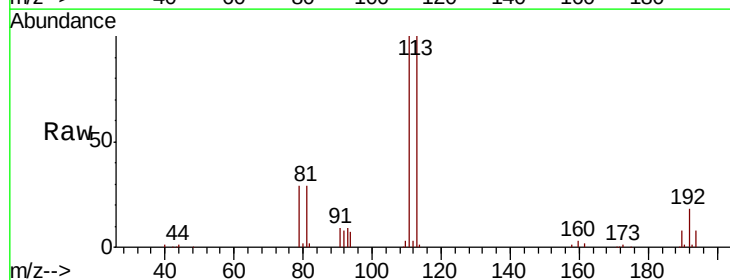


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

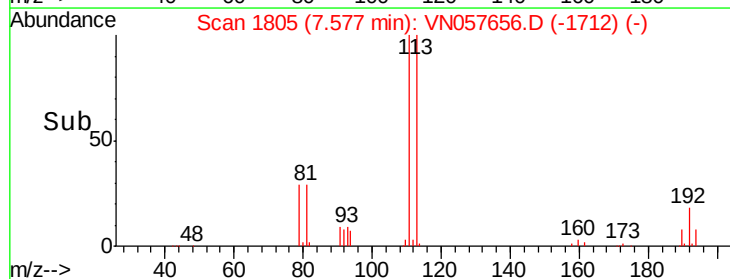
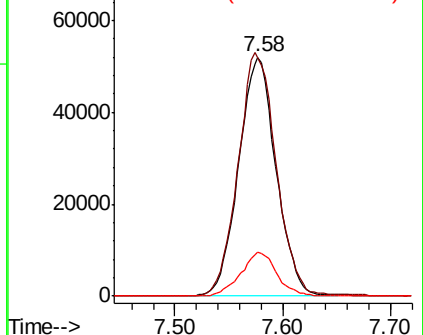


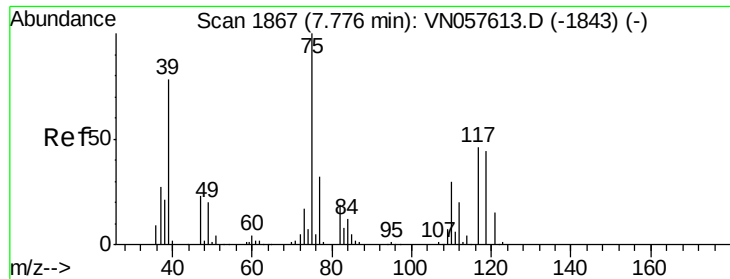
#35
 Dibromofluoromethane
 Concen: 46.792 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057656.D
 Acq: 1 Sep 2019 20:16

Tgt Ion:113 Resp: 125399
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.3 121.9
 192 17.6 13.5 20.3



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

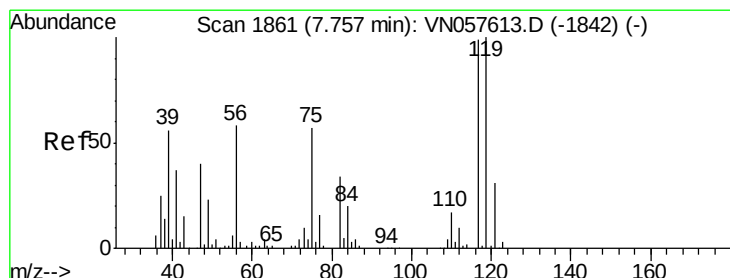
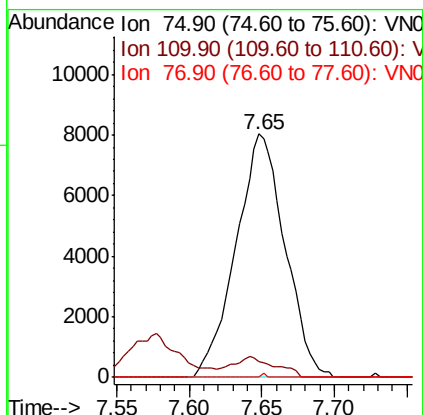
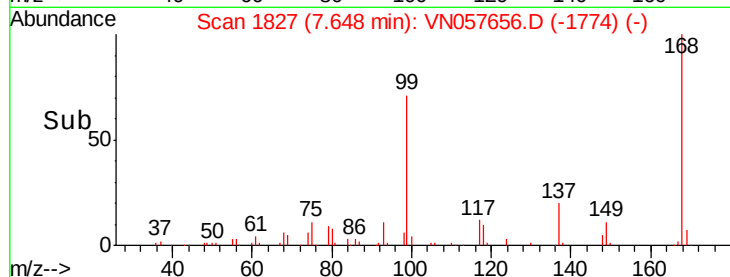
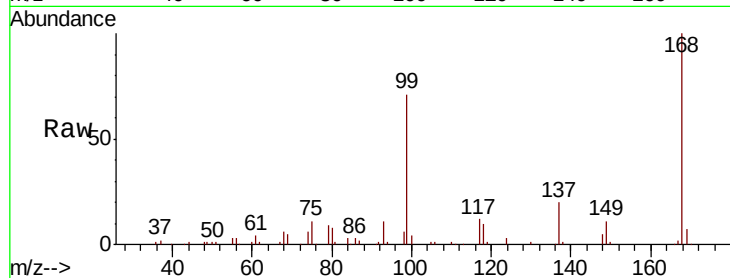




#36
 1,1-Dichloropropene
 Concen: 4.628 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057656.D
 Acq: 1 Sep 2019 20:16

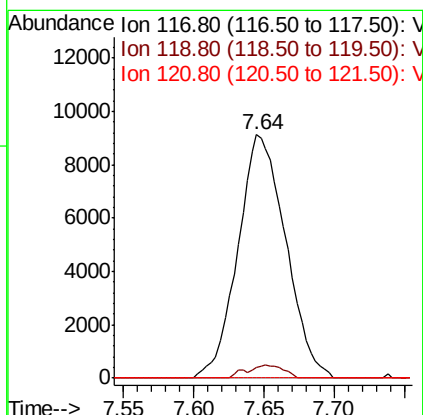
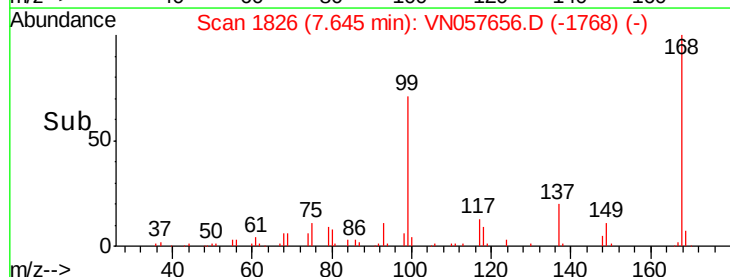
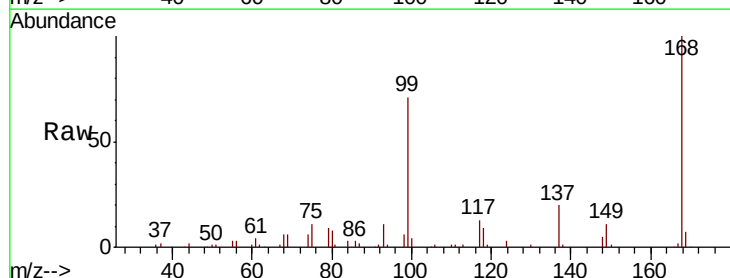
Instrument :
 MSVOA_N
 ClientSampled :
 T1-S-E-(0)

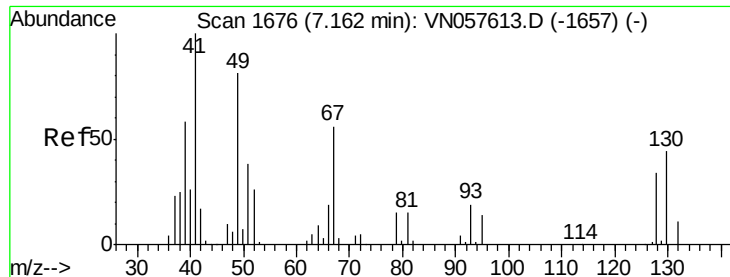
Tgt Ion: 75 Resp: 18831
 Ion Ratio Lower Upper
 75 100
 110 7.4 15.6 46.8#
 77 0.2 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.922 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN057656.D
 Acq: 1 Sep 2019 20:16

Tgt Ion: 117 Resp: 21569
 Ion Ratio Lower Upper
 117 100
 119 4.4 80.6 120.8#
 121 0.0 25.1 37.7#

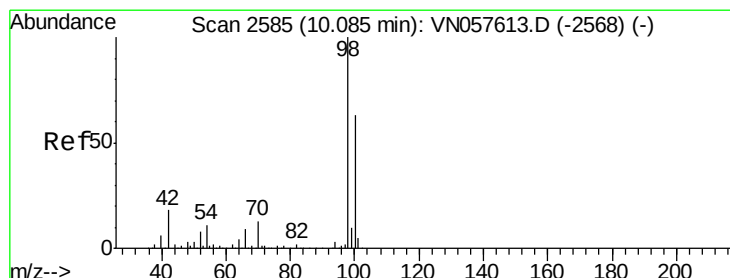
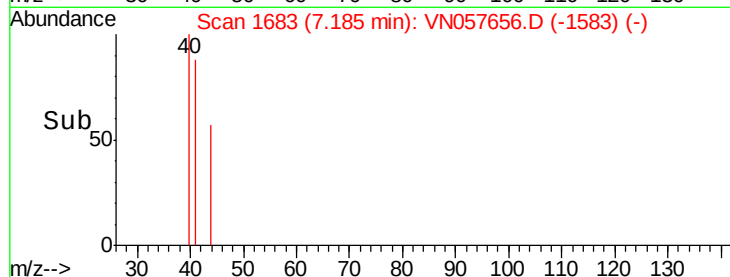
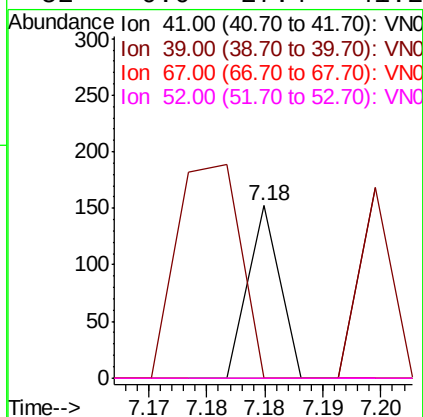
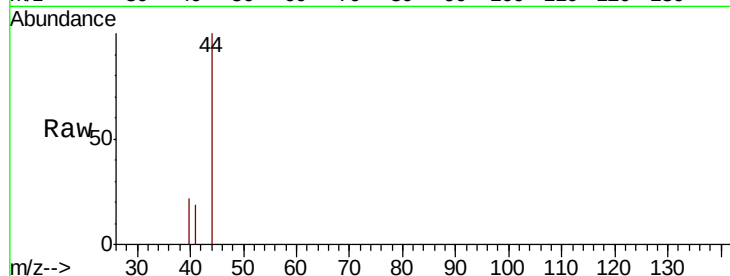




#41
Methacrylonitrile
Concen: 2.296 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.02 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

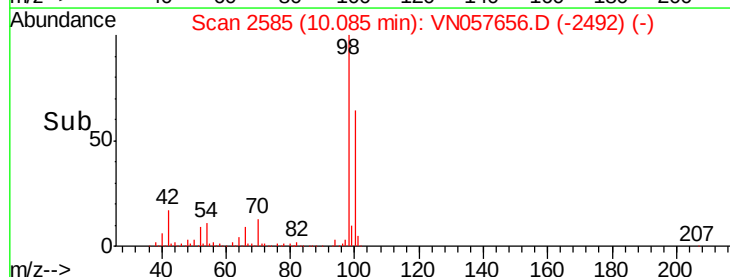
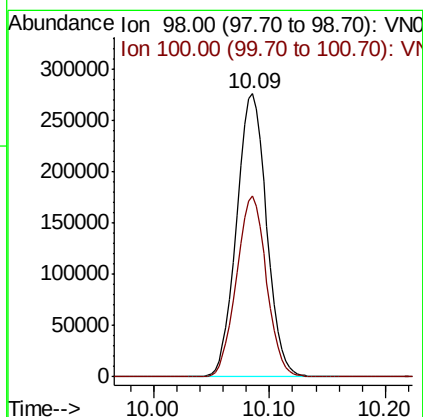
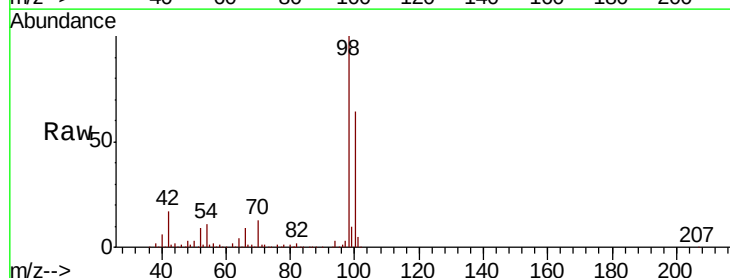
Instrument :
MSVOA_N
ClientSampleId :
T1-S-E(0)

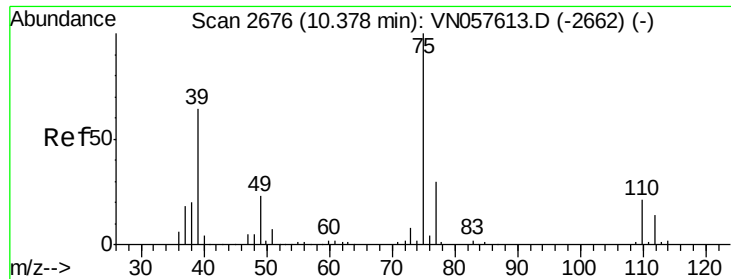
Tgt Ion: 41 Resp: 29
Ion Ratio Lower Upper
41 100
39 248.3 50.6 75.8#
67 0.0 56.9 85.3#
52 0.0 27.4 41.2#



#50
Toluene-d8
Concen: 48.247 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion: 98 Resp: 496405
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8

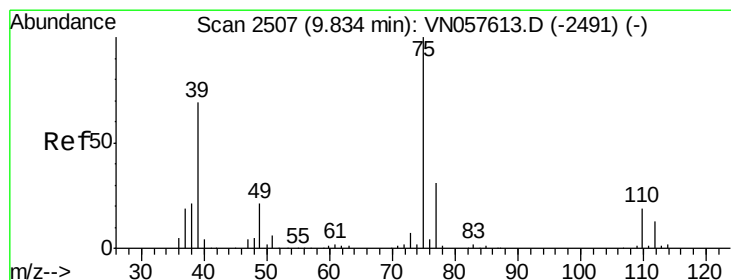
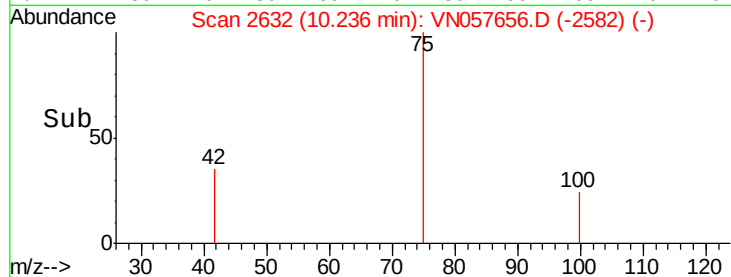
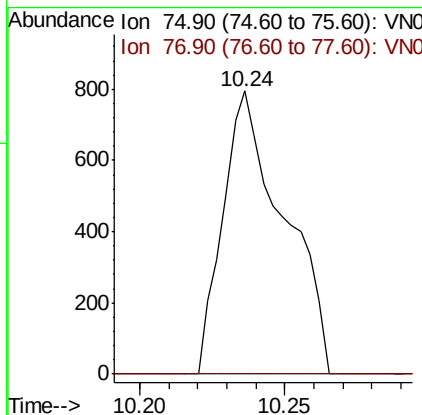
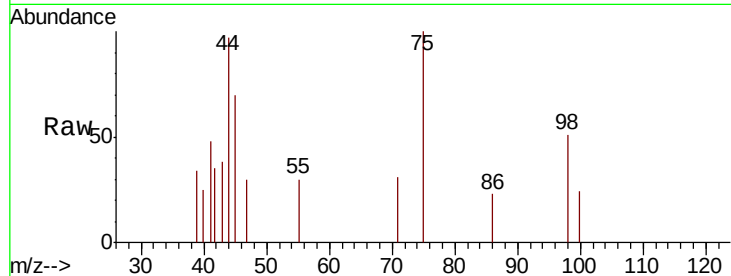




#53
t-1,3-Dichloropropene
Concen: 3.455 ug/l
RT: 10.24 min Scan# 2632
Delta R.T. -0.14 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

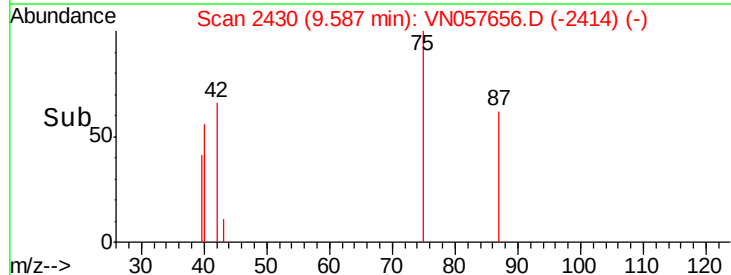
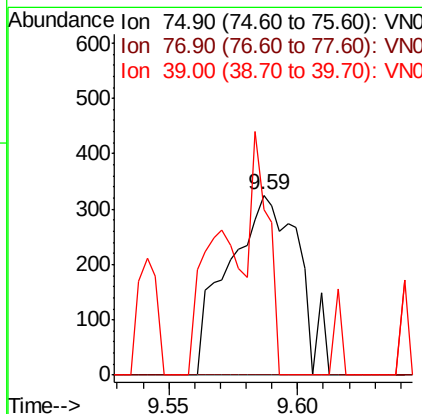
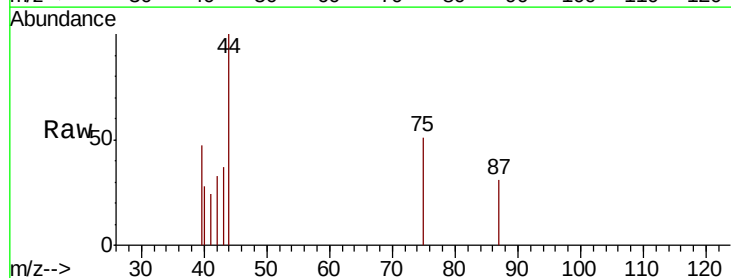
Instrument :
MSVOA_N
ClientSampleId :
T1-S-E-(0)

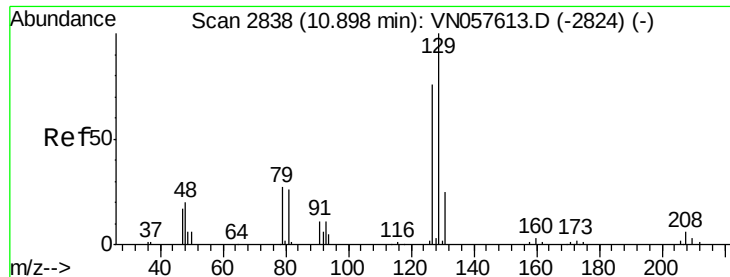
Tgt Ion: 75 Resp: 1161
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#



#54
cis-1,3-Dichloropropene
Concen: 1.930 ug/l
RT: 9.59 min Scan# 2430
Delta R.T. -0.25 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion: 75 Resp: 621
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 92.3 55.0 82.4#





#60

Dibromochloromethane

Concen: 3.555 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. -0.26 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

Instrument :

MSVOA_N

ClientSampleId :

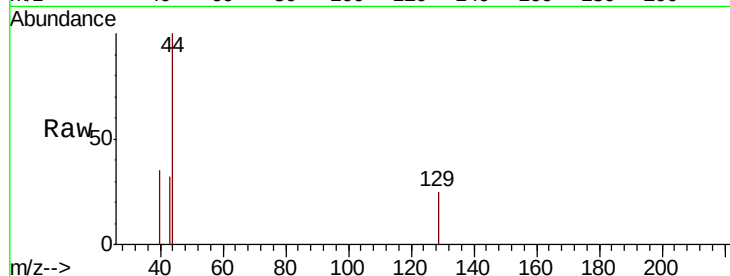
T1-S-E(0)

Tgt Ion:129 Resp: 30

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

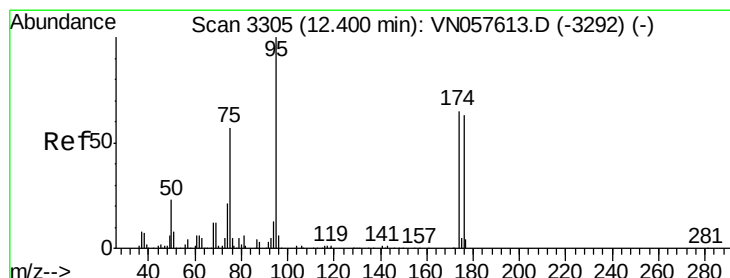
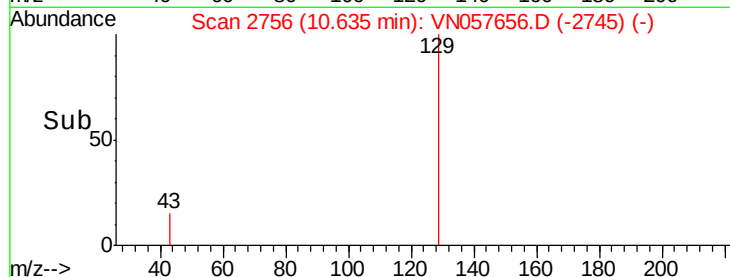
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 40.402 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

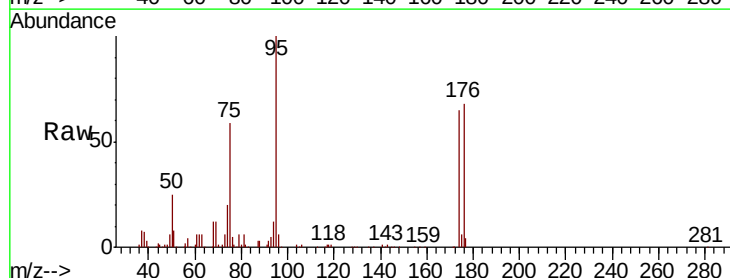
Tgt Ion: 95 Resp: 158071

Ion Ratio Lower Upper

95 100

174 65.7 0.0 134.8

176 65.8 0.0 131.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

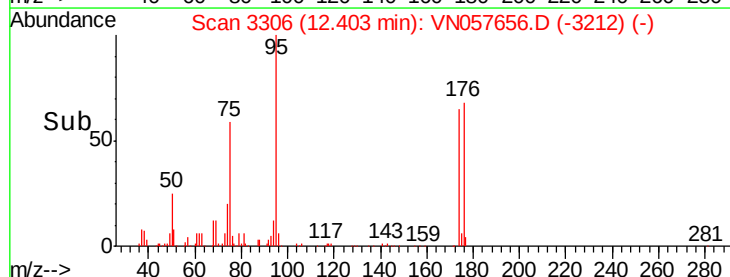
60000

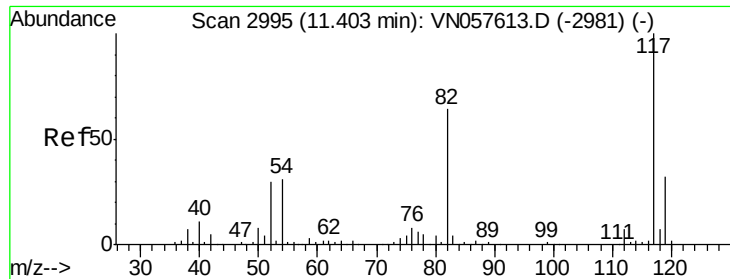
40000

20000

0

Time-->

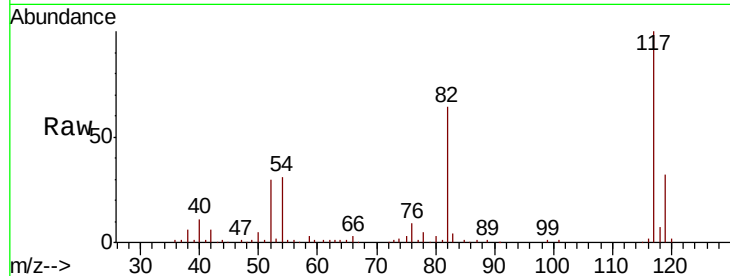




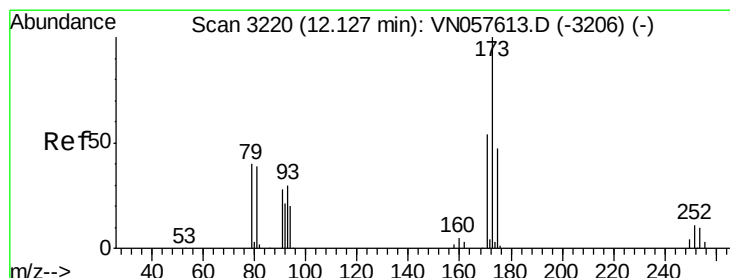
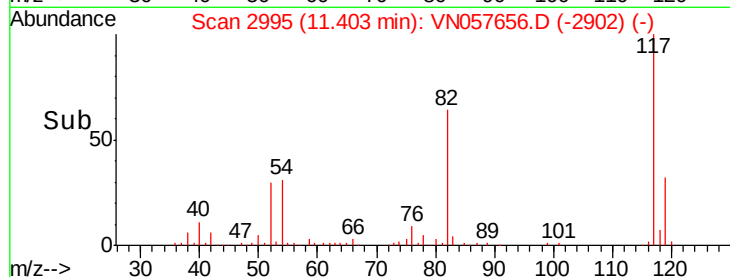
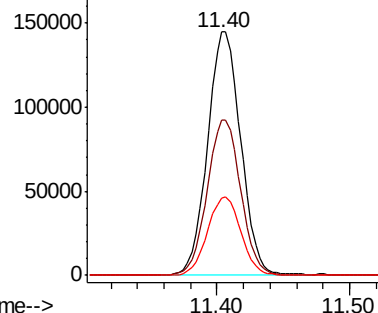
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Instrument :
MSVOA_N
ClientSampleId :
T1-S-E(0)

Tgt Ion:117 Resp: 252554
Ion Ratio Lower Upper
117 100
82 63.7 51.6 77.4
119 31.8 25.8 38.6

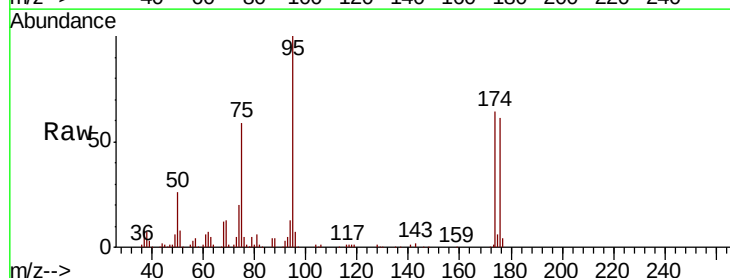


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

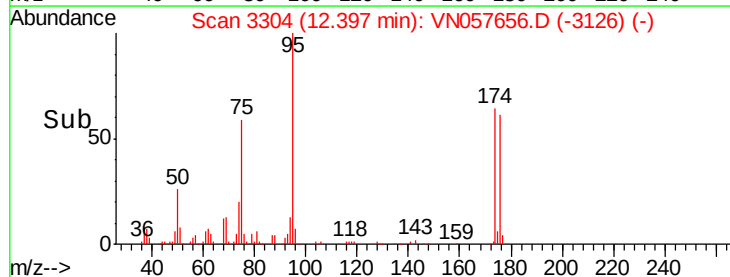
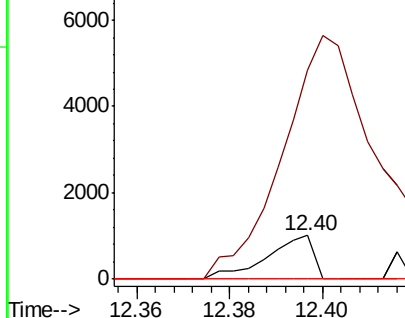


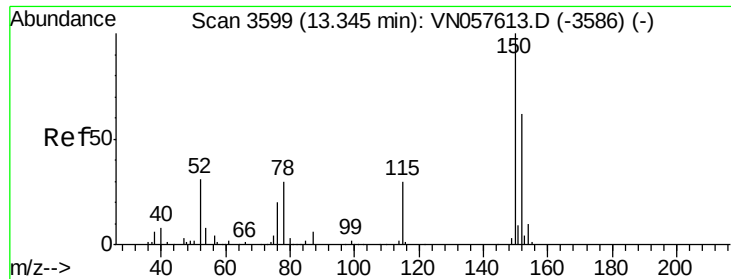
#71
Bromoform
Concen: 6.596 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion:173 Resp: 706
Ion Ratio Lower Upper
173 100
175 979.7 24.4 73.4#
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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

Instrument :

MSVOA_N

ClientSampleId :

T1-S-E(0)

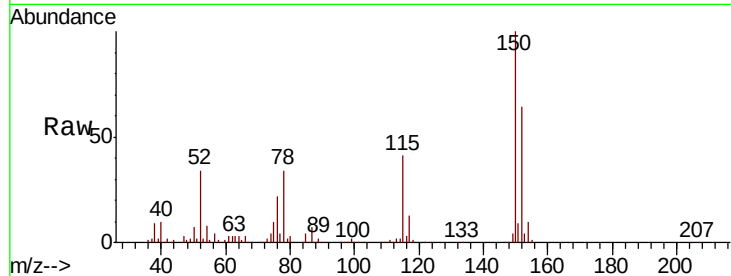
Tgt Ion:152 Resp: 108279

Ion Ratio Lower Upper

152 100

115 65.6 33.2 99.6

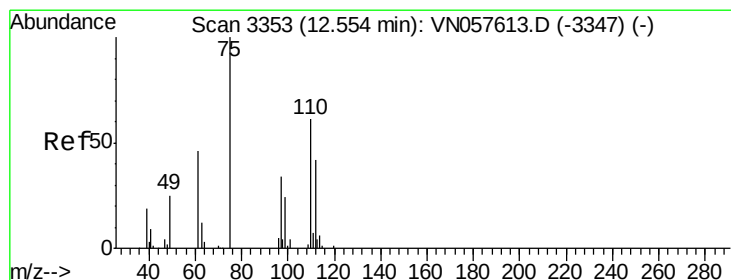
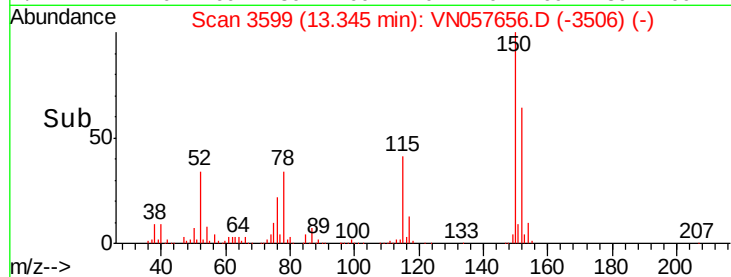
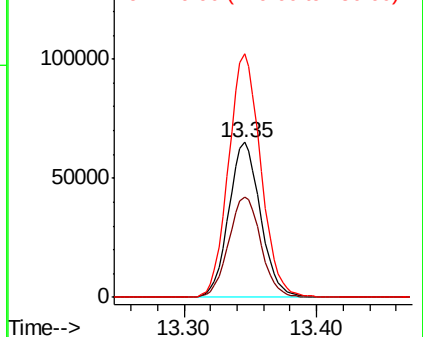
150 159.3 0.0 365.2



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: 32.352 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057656.D

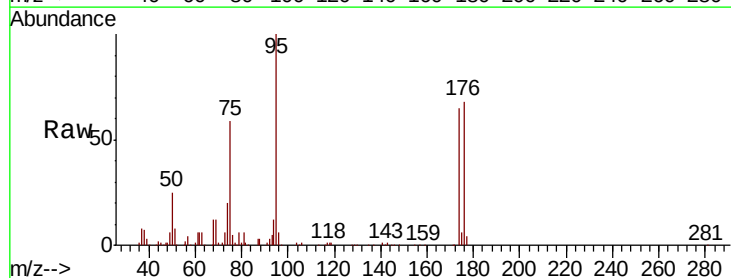
Acq: 1 Sep 2019 20:16

Tgt Ion: 75 Resp: 92145

Ion Ratio Lower Upper

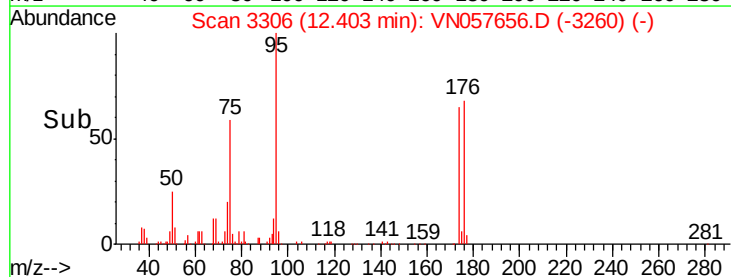
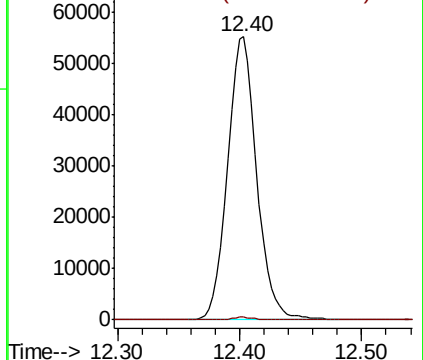
75 100

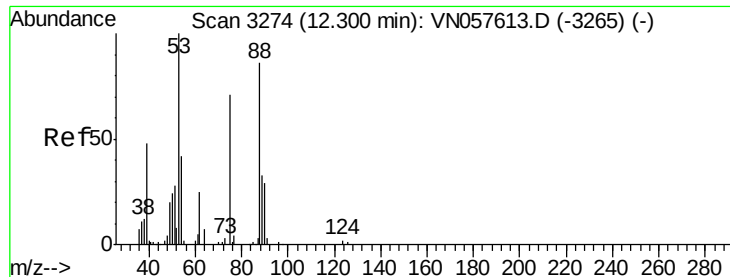
77 0.7 0.0 0.0#



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: 110.896 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

Instrument :

MSVOA_N

ClientSampled :

T1-S-E-(0)

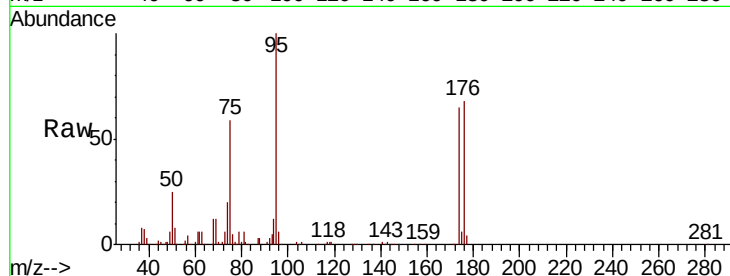
Tgt Ion: 75 Resp: 92145

Ion Ratio Lower Upper

75 100

53 0.0 111.0 166.6#

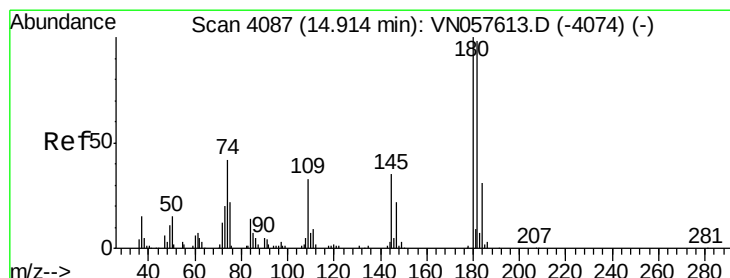
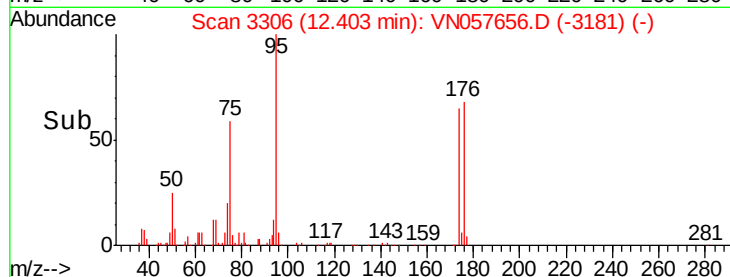
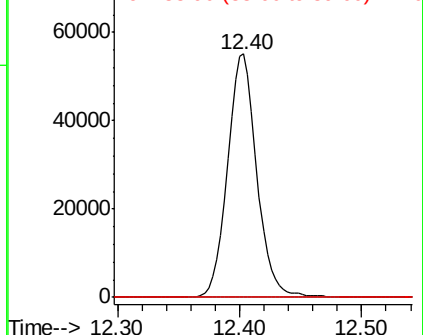
89 0.0 38.3 57.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 8.389 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN057656.D

Acq: 1 Sep 2019 20:16

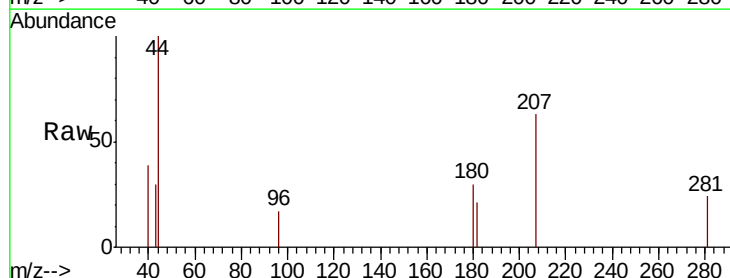
Tgt Ion: 180 Resp: 175

Ion Ratio Lower Upper

180 100

182 98.9 47.8 143.3

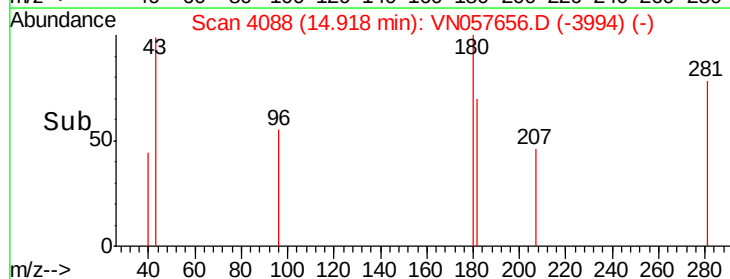
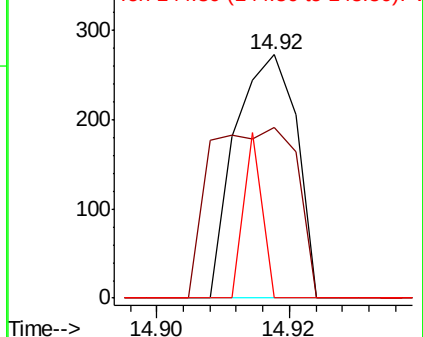
145 20.6 16.9 50.7

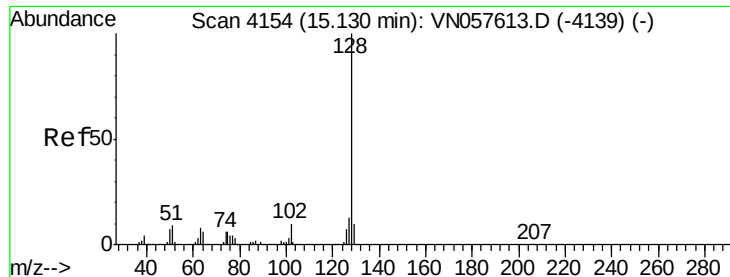


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

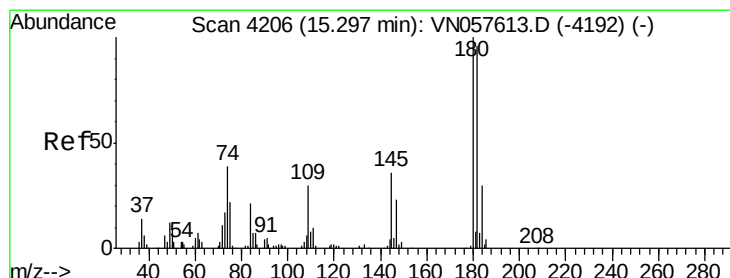
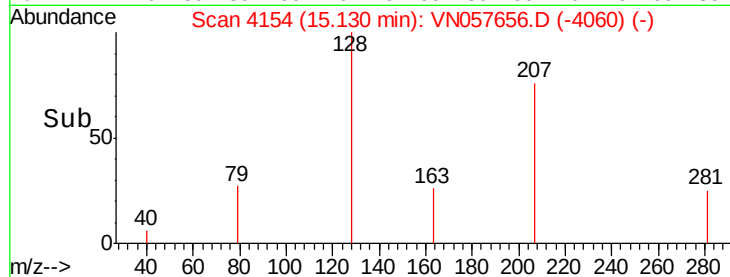
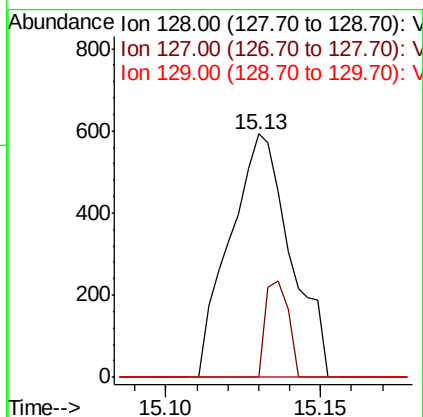
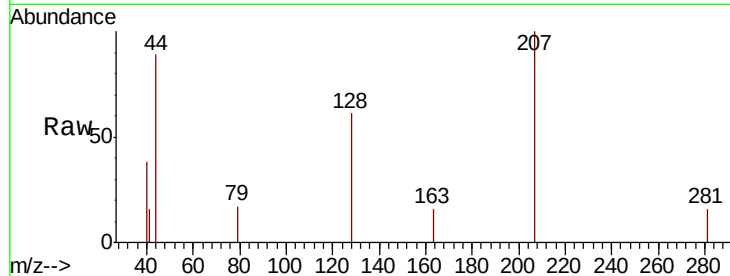




#95
Naphthalene
Concen: 7.051 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Instrument :
MSVOA_N
ClientSampleId :
T1-S-E(0)

Tgt Ion:128 Resp: 809
Ion Ratio Lower Upper
128 100
127 14.8 10.2 15.2
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 7.824 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. 0.01 min
Lab File: VN057656.D
Acq: 1 Sep 2019 20:16

Tgt Ion:180 Resp: 112
Ion Ratio Lower Upper
180 100
182 100.9 46.3 138.9
145 0.0 17.8 53.3#

