

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058227.D
 Acq On : 20 Sep 2019 00:02
 Operator : JC/SP
 Sample : K4974-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 04:28:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	514094	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	837277	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	725729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301959	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	369743	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	7.57	113	257437	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
50) Toluene-d8	10.08	98	1051039	53.00	ug/l	0.00
Spiked Amount			Recovery	=	106.00%	
62) 4-Bromofluorobenzene	12.40	95	340110	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	

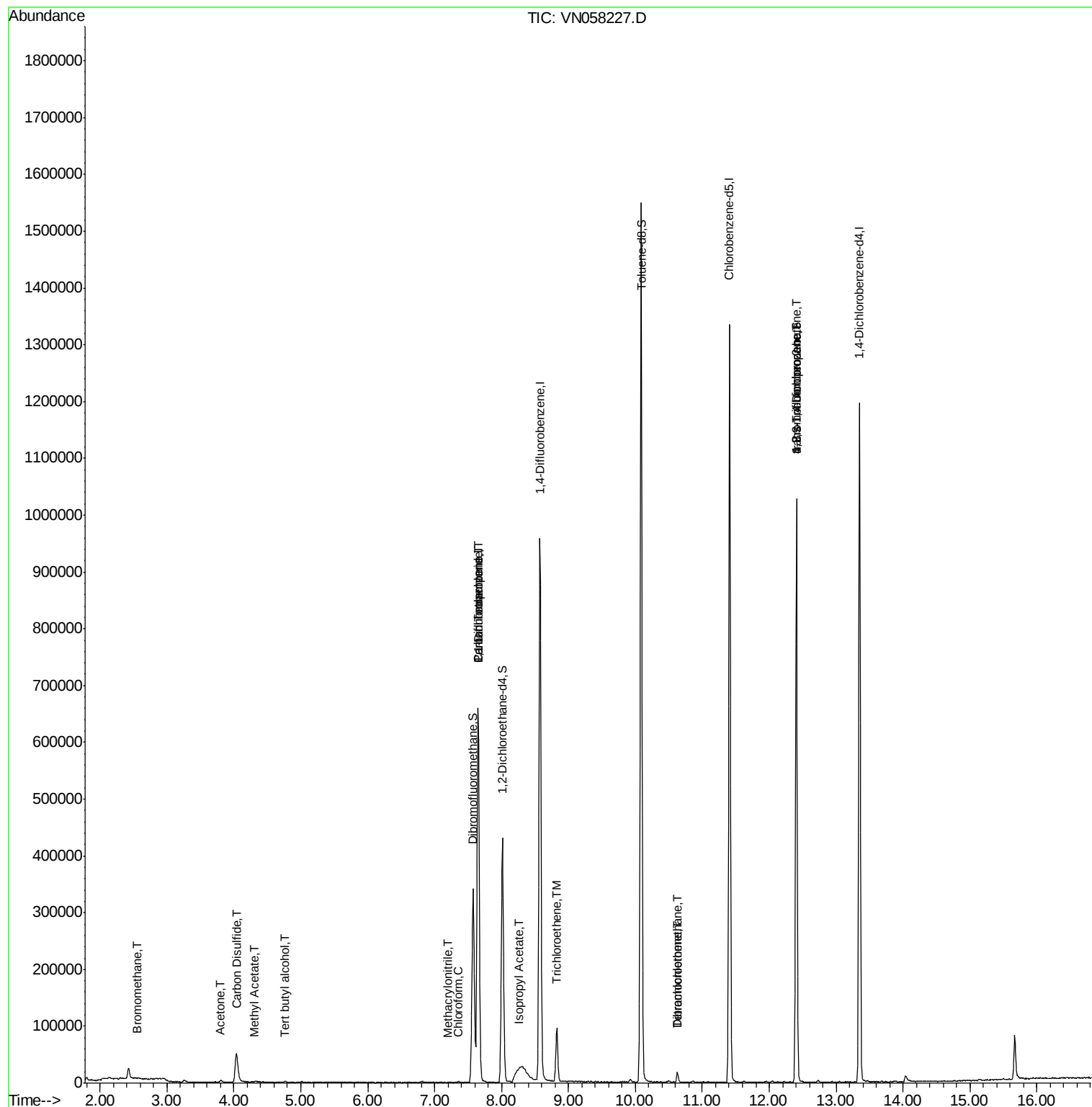
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1477	Below Cal	#	74
4) Vinyl Chloride	2.03	62	63	Below Cal	#	43
5) Bromomethane	2.55	94	491	0.979	ug/l #	67
6) Chloroethane	2.69	64	63	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	1709	2.006	ug/l #	87
16) Acetone	3.80	43	5600	2.304	ug/l	99
17) Carbon Disulfide	4.03	76	999	0.495	ug/l #	74
18) Methyl Acetate	4.31	43	1999	0.313	ug/l #	65
20) Methylene Chloride	4.52	84	289	Below Cal	#	42
30) Chloroform	7.36	83	2220	0.224	ug/l	89
31) Cyclohexane	7.65	56	12606	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	44467	7.365	ug/l #	50
38) Carbon Tetrachloride	7.65	117	52859	8.709	ug/l #	15
41) Methacrylonitrile	7.19	41	33	0.921	ug/l #	100
43) Isopropyl Acetate	8.25	43	31472	2.689	ug/l #	57
44) Trichloroethene	8.82	130	33169	7.350	ug/l	94
60) Dibromochloromethane	10.63	129	3688	0.747	ug/l #	11
64) Tetrachloroethene	10.63	164	3725	1.053	ug/l	91
76) 1,2,3-Trichloropropane	12.41	75	188736	34.924	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	188736	97.709	ug/l #	5

(#) = 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: VN058227.D

Acq: 20 Sep 2019 00:02

Instrument :

MSVOA_N

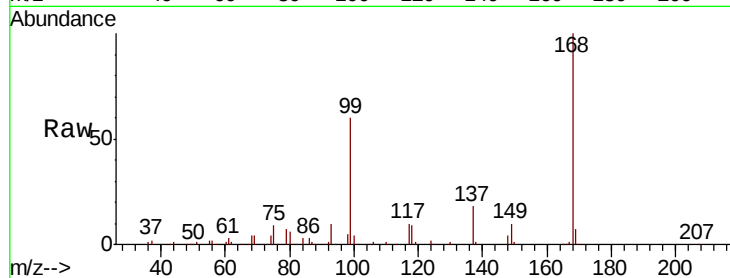
ClientSampleId :

Tot Ion:168 Resp: 514094

Ion Ratio Lower Upper

168 100

99 60.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

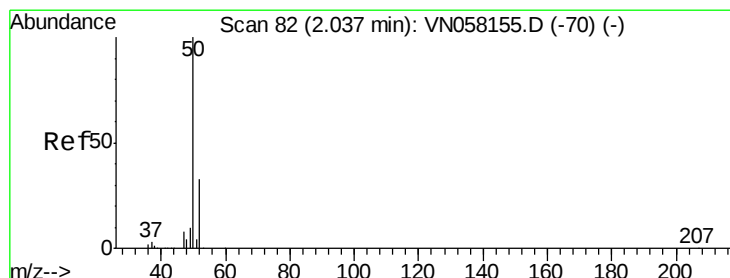
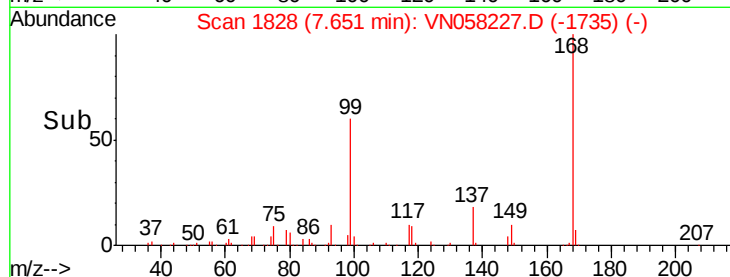
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058227.D

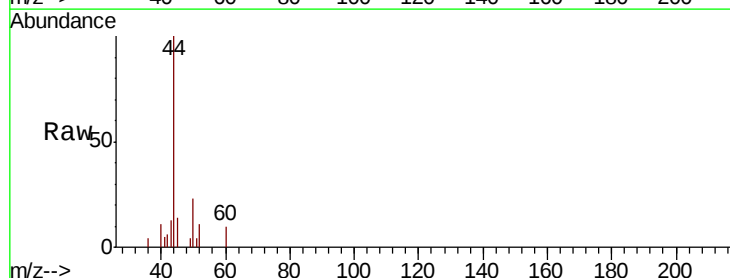
Acq: 20 Sep 2019 00:02

Tgt Ion: 50 Resp: 1477

Ion Ratio Lower Upper

50 100

52 47.4 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

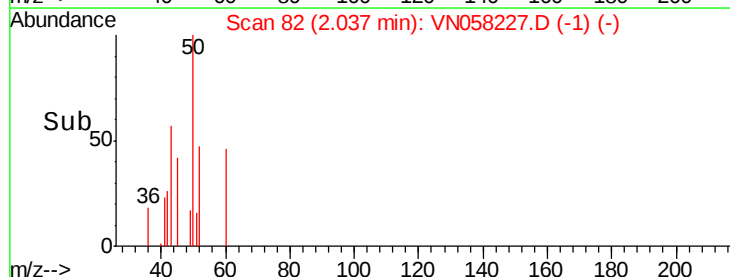
600

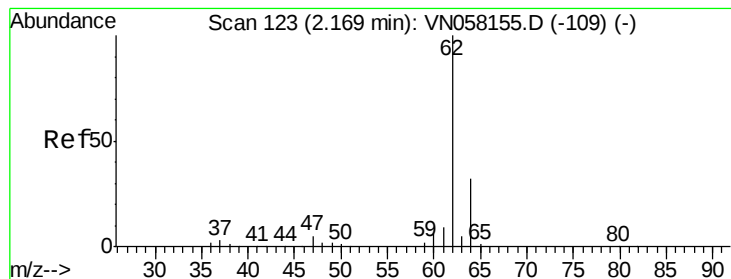
400

200

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.14 min

Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

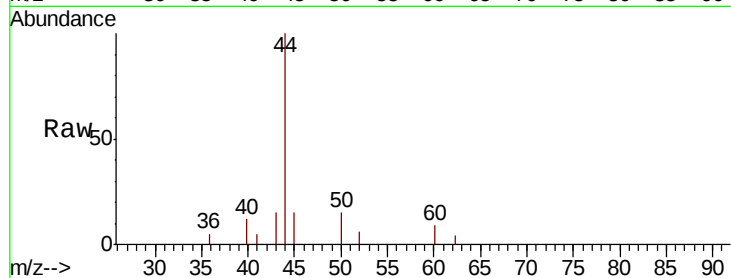
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 62 Resp: 63

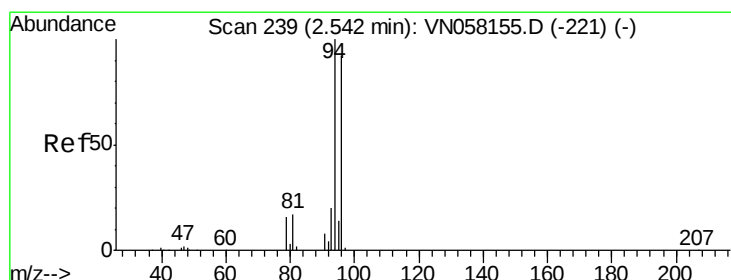
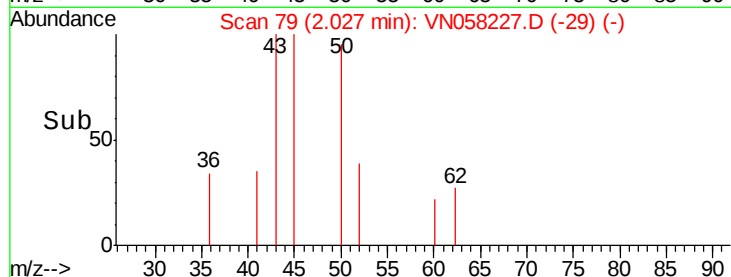
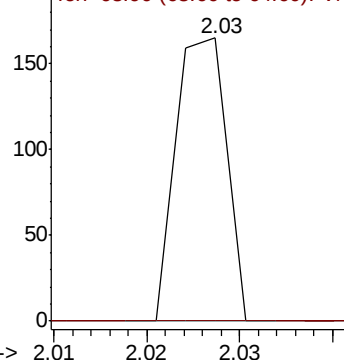
Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 0.979 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058227.D

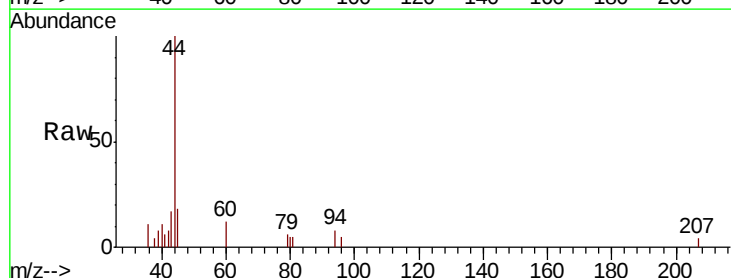
Acq: 20 Sep 2019 00:02

Tgt Ion: 94 Resp: 491

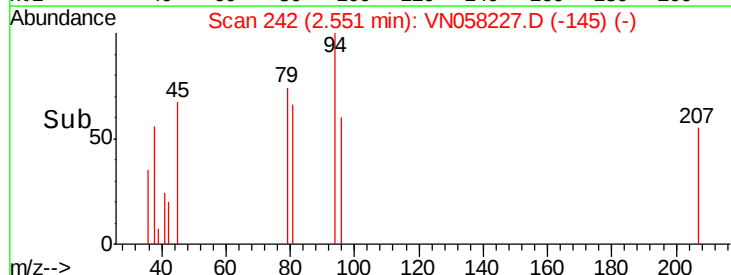
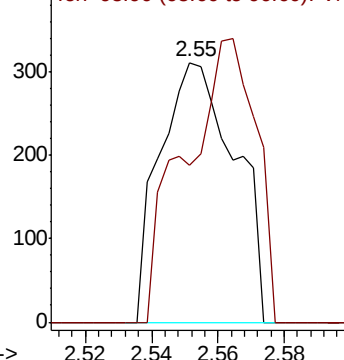
Ion Ratio Lower Upper

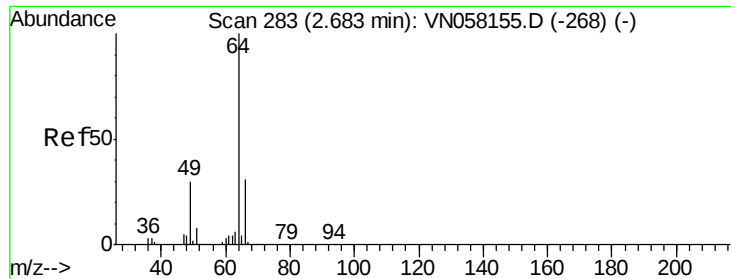
94 100

96 60.5 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 286

Delta R.T. 0.01 min

Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

Instrument :

MSVOA_N

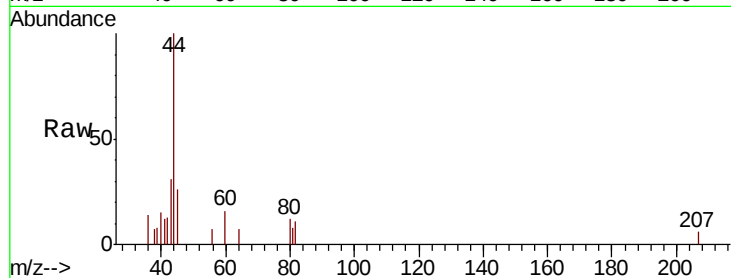
ClientSampleId :

Tot Ion: 64 Resp: 63

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.69

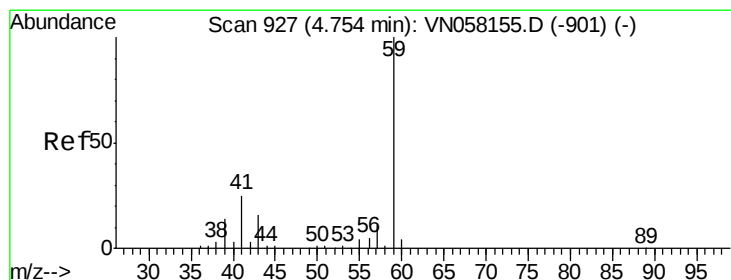
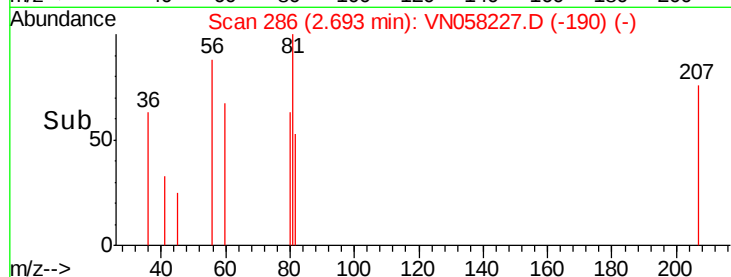
150

100

50

0

Time--> 2.68 2.69 2.70



#11

Tert butyl alcohol

Concen: 2.006 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.00 min

Lab File: VN058227.D

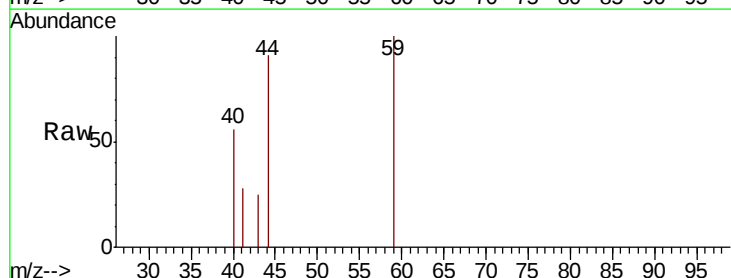
Acq: 20 Sep 2019 00:02

Tgt Ion: 59 Resp: 1709

Ion Ratio Lower Upper

59 100

57 6.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

800

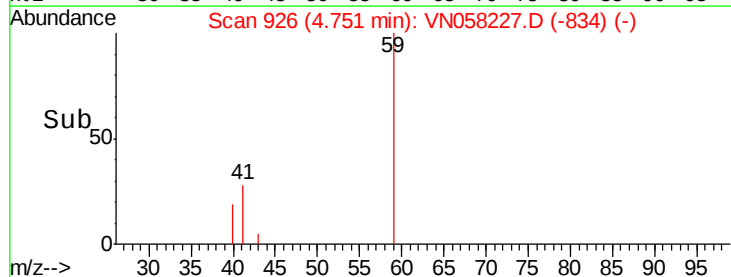
600

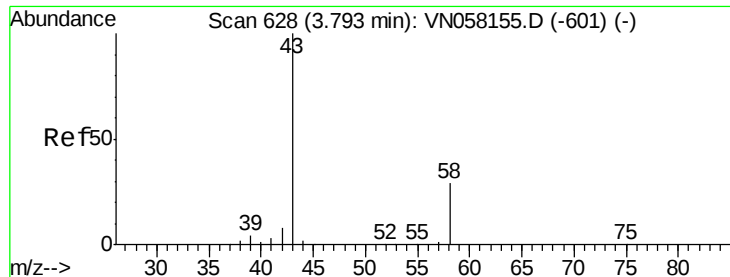
400

200

0

Time--> 4.70 4.72 4.74 4.76 4.78





#16

Acetone

Concen: 2.304 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

Instrument :

MSVOA_N

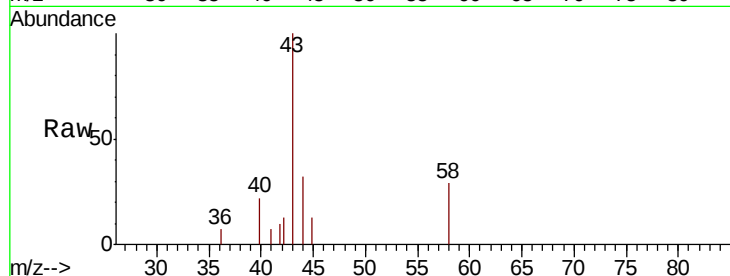
ClientSampled :

Tot Ion: 43.00 Resp: 5600

Ion Ratio Lower Upper

43 100

58 28.5 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN058155.D (-601) (-)

2500

2000

1500

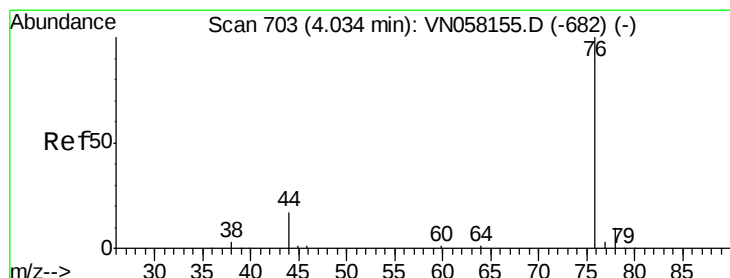
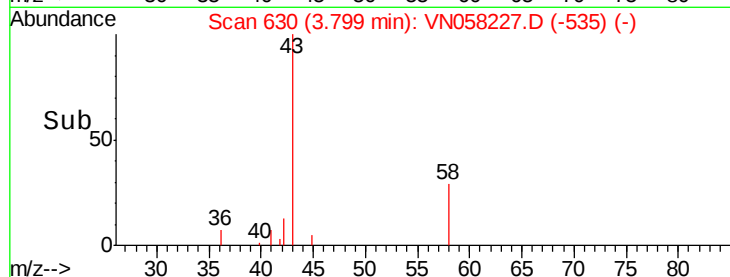
1000

500

0

3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: 0.495 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058227.D

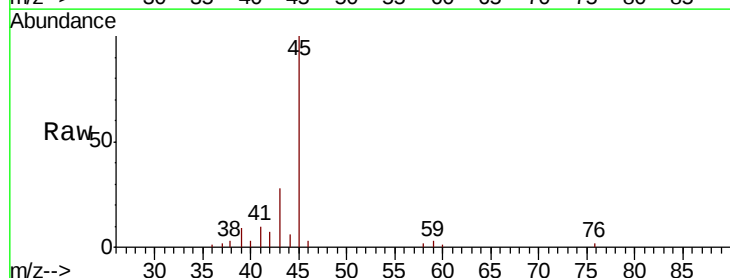
Acq: 20 Sep 2019 00:02

Tgt Ion: 76 Resp: 999

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN058155.D (-682) (-)

Ion 77.90 (77.60 to 78.60): VN058155.D (-682) (-)

500

400

300

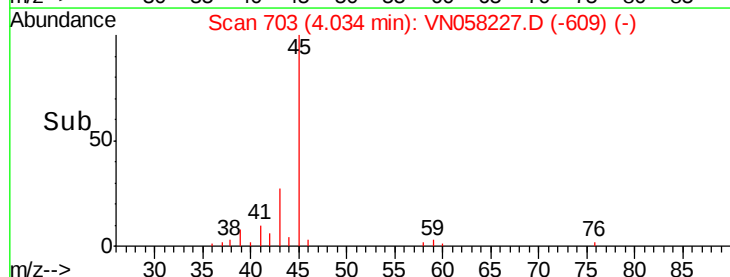
200

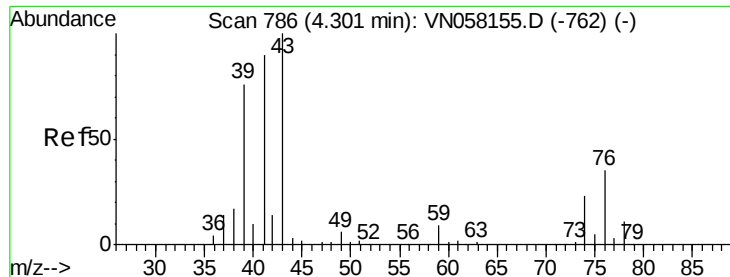
100

0

4.00 4.05

Time-->

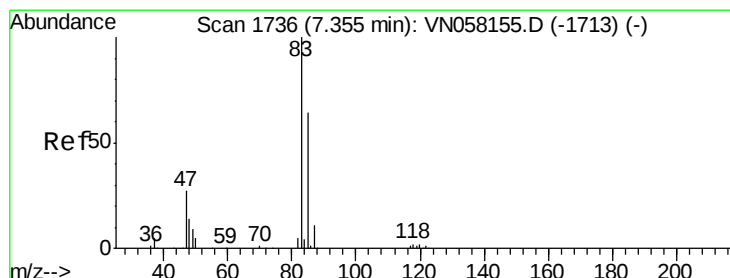
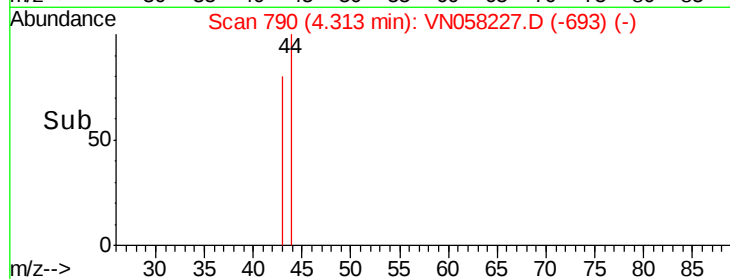
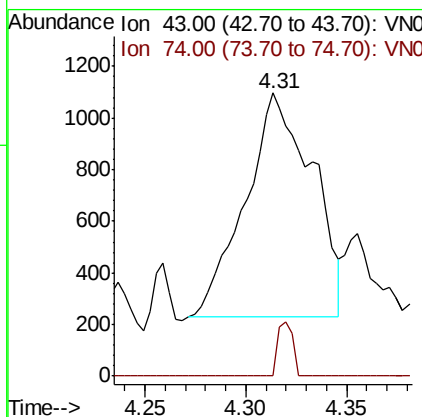
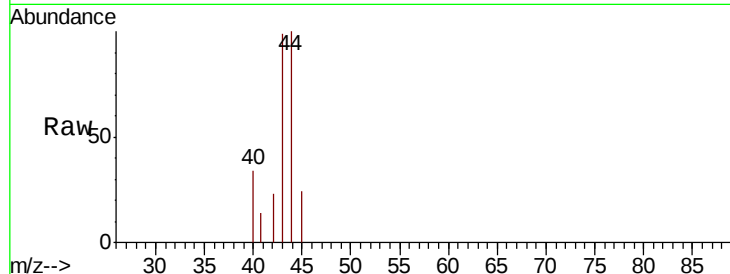




#18
Methvl Acetate
Concen: 0.313 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

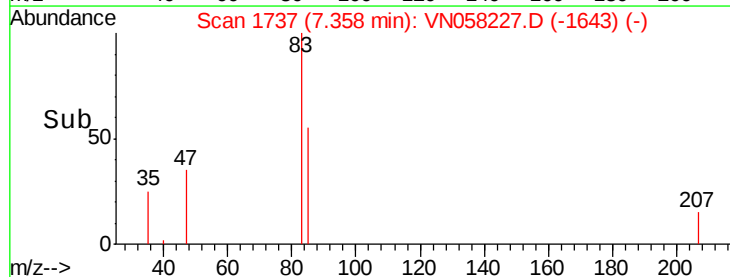
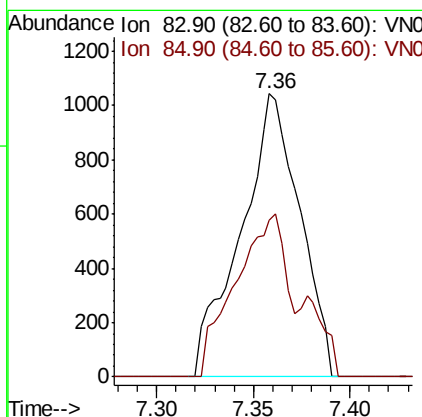
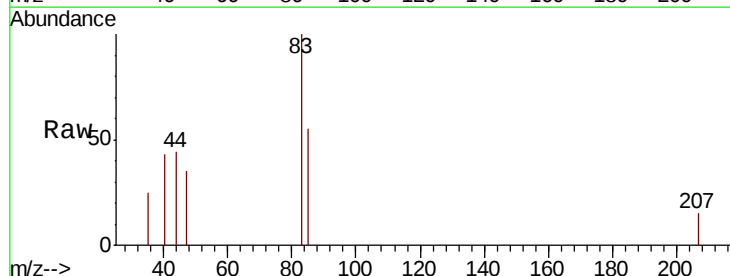
Instrument :
MSVOA_N
ClientSampled :

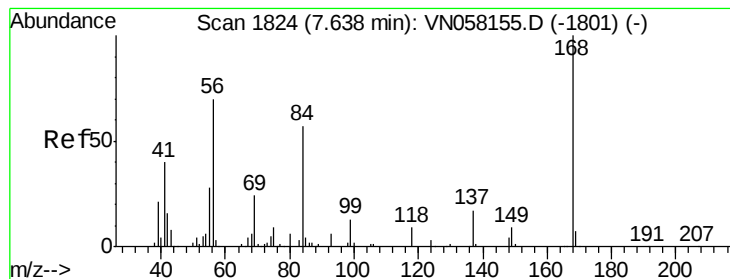
Tot Ion: 43 Resp: 1999
Ion Ratio Lower Upper
43 100
74 5.5 18.0 27.0#



#30
Chloroform
Concen: 0.224 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Tgt Ion: 83 Resp: 2220
Ion Ratio Lower Upper
83 100
85 55.4 51.4 77.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

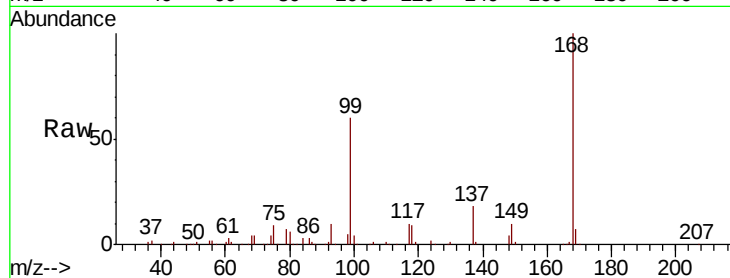
Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

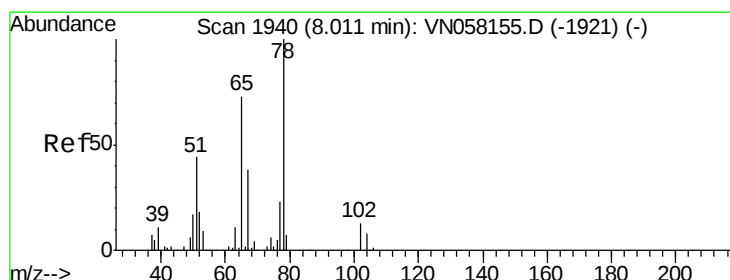
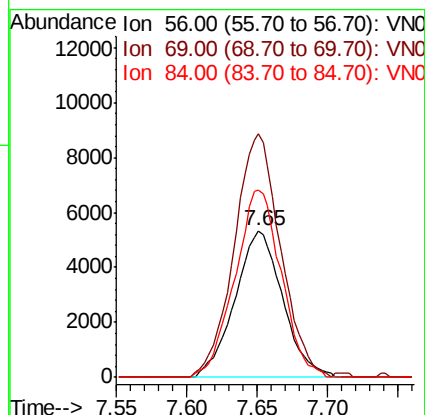
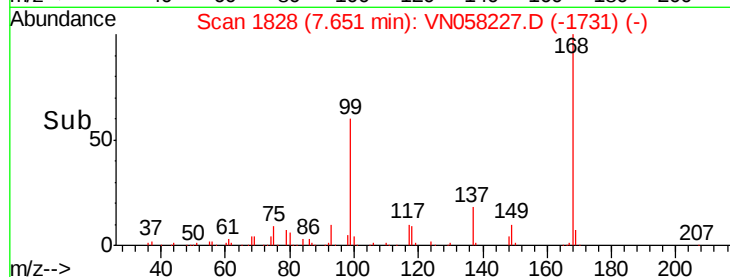
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12606

Ion	Ratio	Lower	Upper
56	100		
69	166.2	27.3	40.9#
84	127.8	65.0	97.4#



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: 51.638 ug/l

RT: 8.01 min Scan# 1941

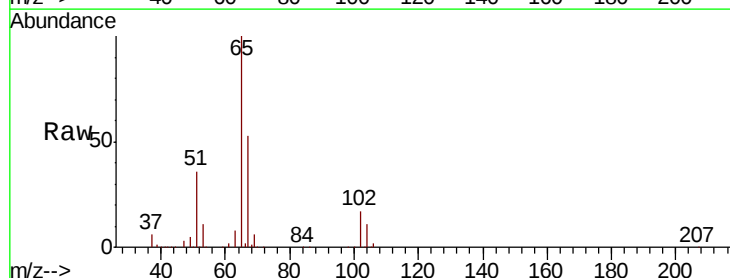
Delta R.T. 0.00 min

Lab File: VN058227.D

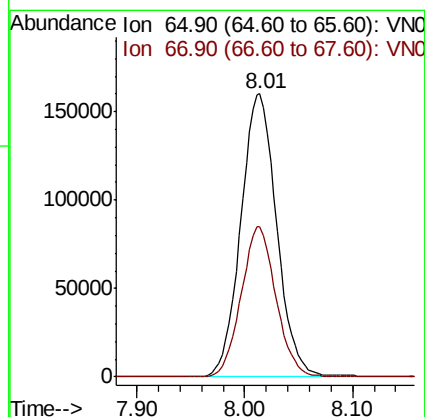
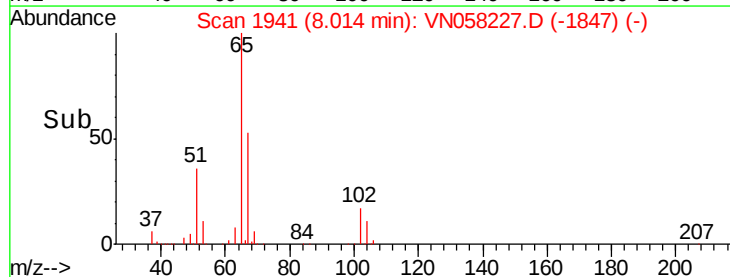
Acq: 20 Sep 2019 00:02

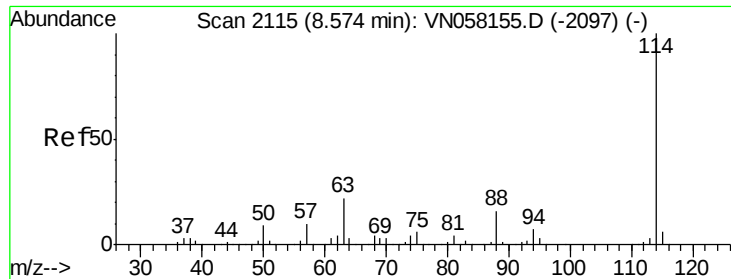
Tgt Ion: 65 Resp: 369743

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	103.4



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

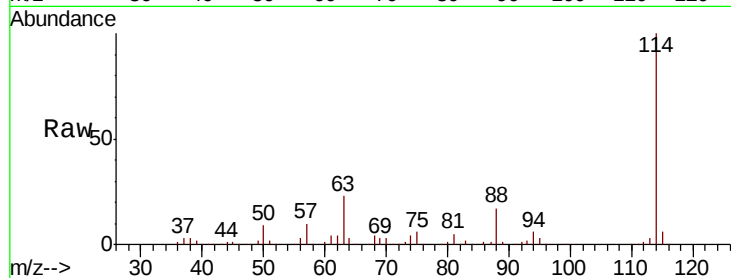




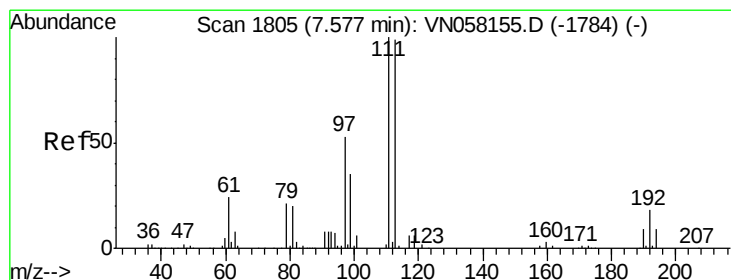
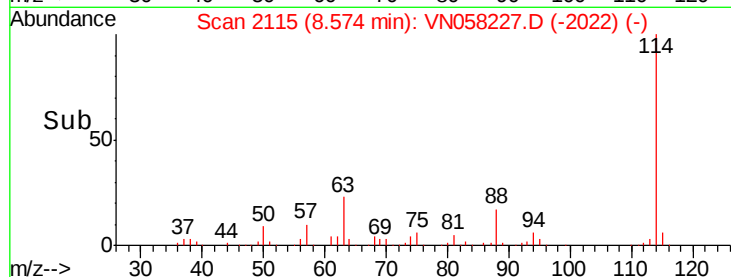
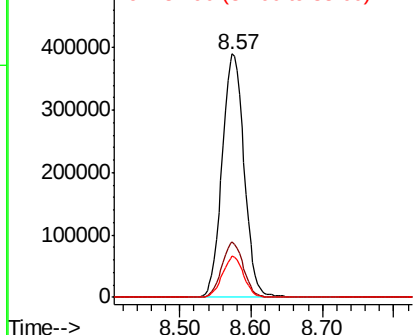
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 837277
Ion Ratio Lower Upper
114 100
63 22.8 0.0 44.2
88 16.7 0.0 31.6

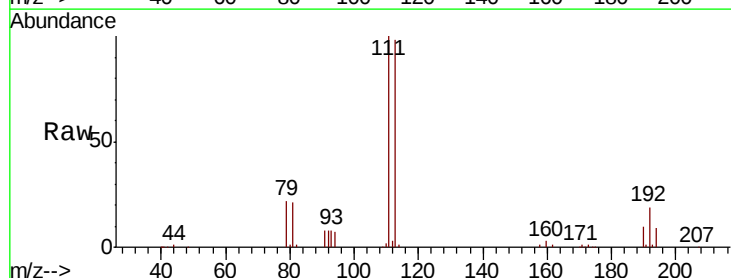


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VNO
Ion 87.90 (87.60 to 88.60): VNO

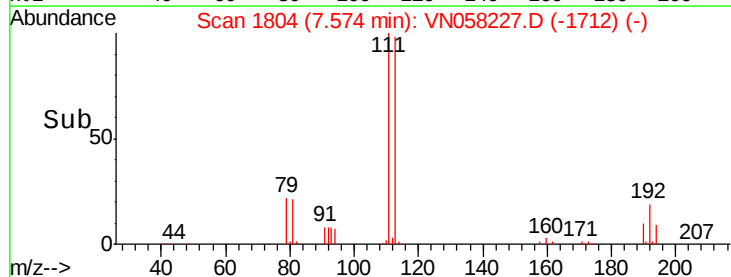
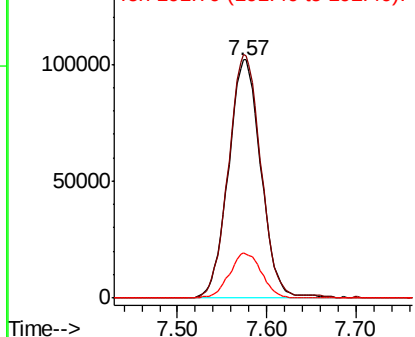


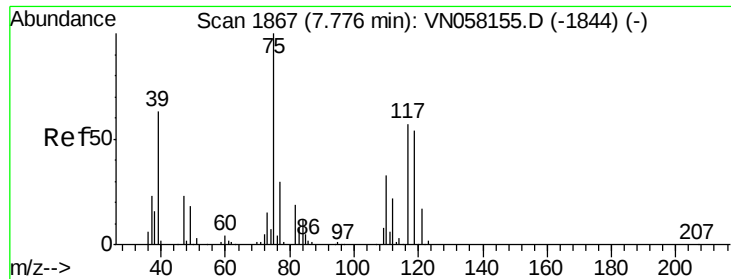
#35
Dibromofluoromethane
Concen: 50.577 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Tgt Ion:113 Resp: 257437
Ion Ratio Lower Upper
113 100
111 101.2 81.8 122.6
192 18.8 14.5 21.7



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

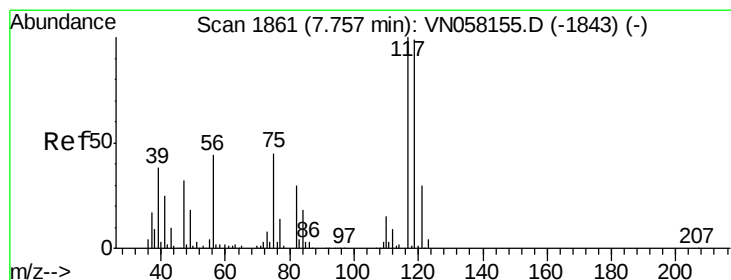
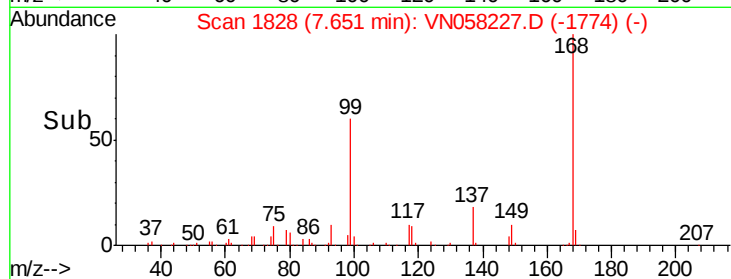
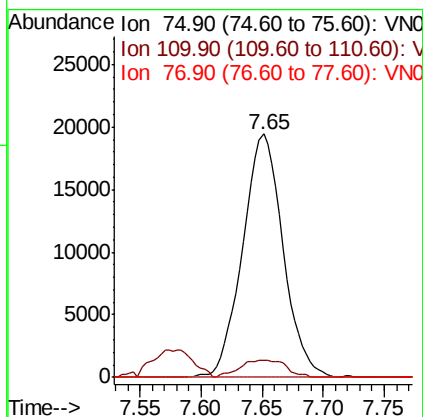
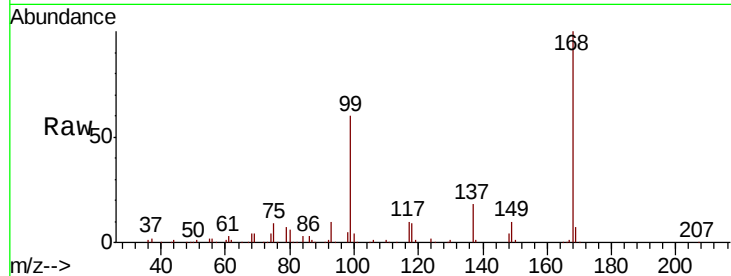




#36
 1,1-Dichloropropene
 Concen: 7.365 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058227.D
 Acq: 20 Sep 2019 00:02

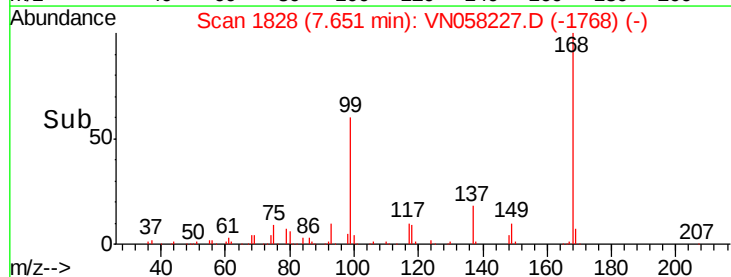
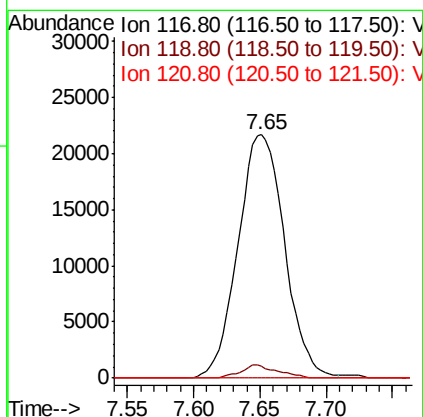
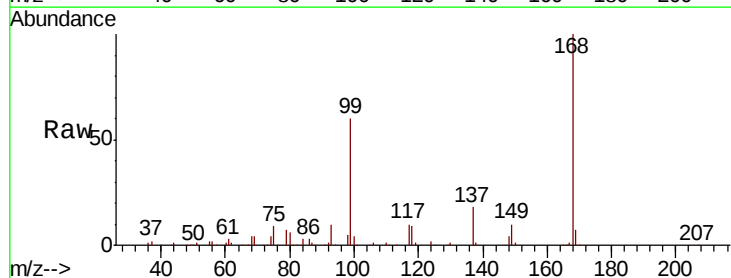
Instrument :
 MSVOA_N
 ClientSampleId :

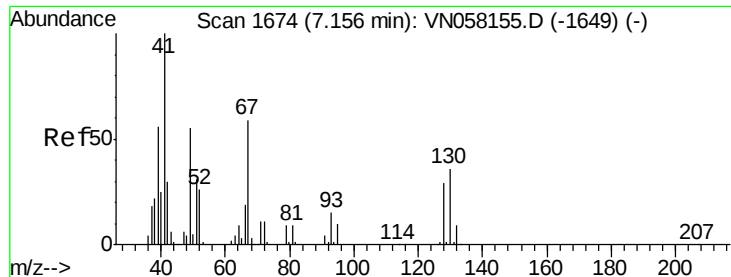
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.709 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058227.D
 Acq: 20 Sep 2019 00:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.6	117.8#
121	0.0	24.1	36.1#

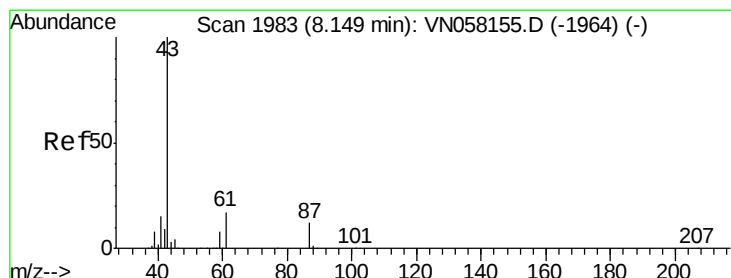
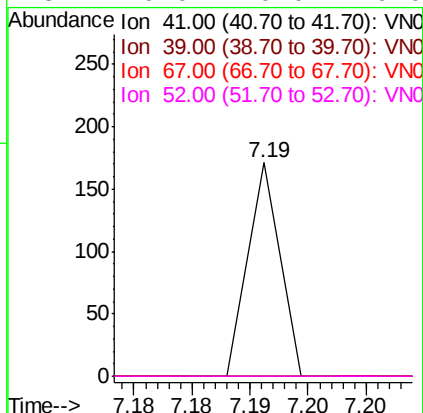
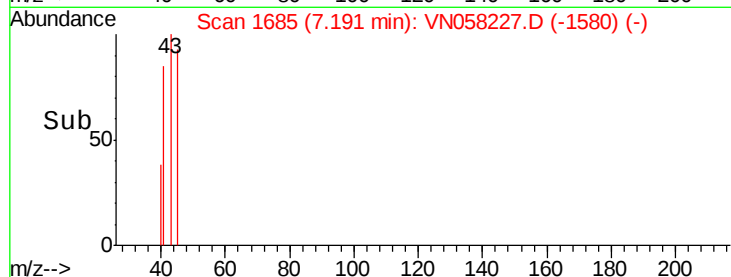
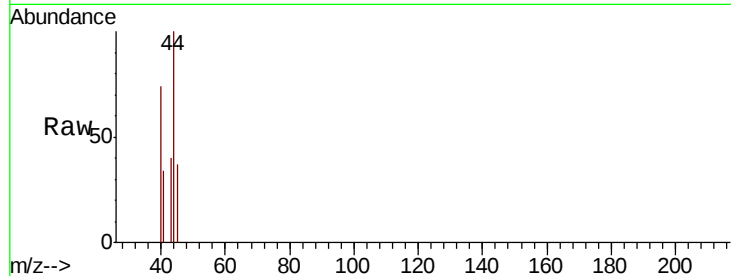




#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.04 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

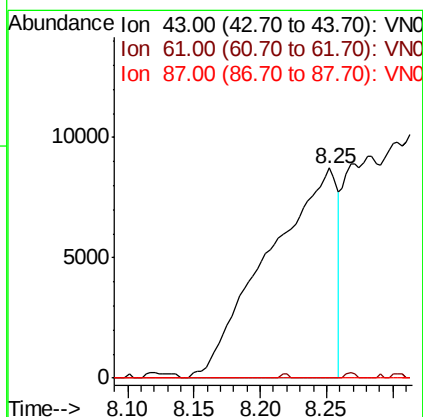
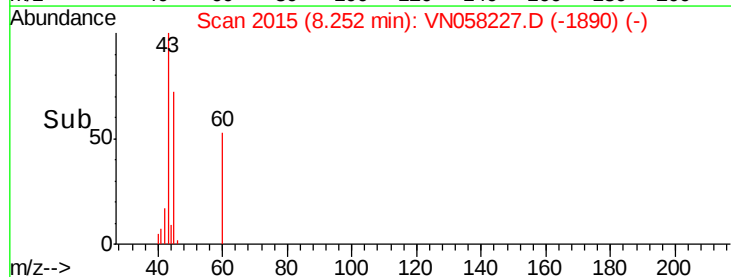
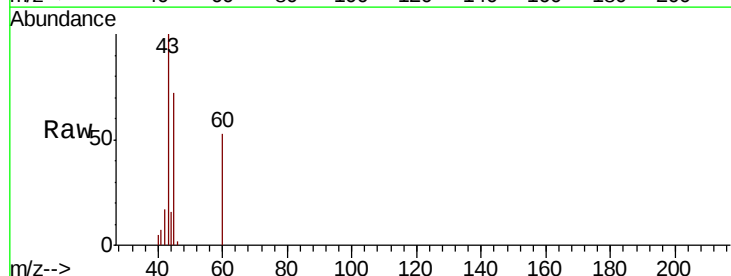
Instrument :
MSVOA_N
ClientSampled :

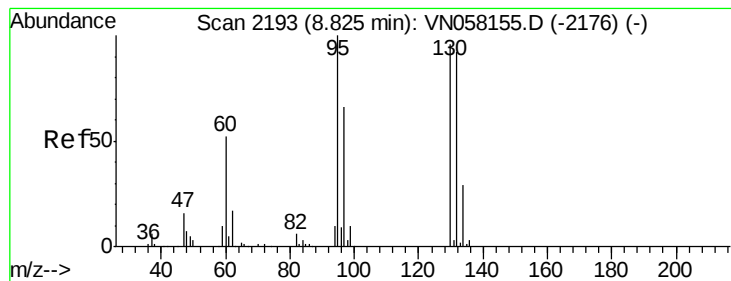
Tot Ion:	41	Resp:	33
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.689 ug/l
RT: 8.25 min Scan# 2015
Delta R.T. 0.10 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Tgt Ion:	43	Resp:	31472
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 7.350 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

Instrument :

MSVOA_N

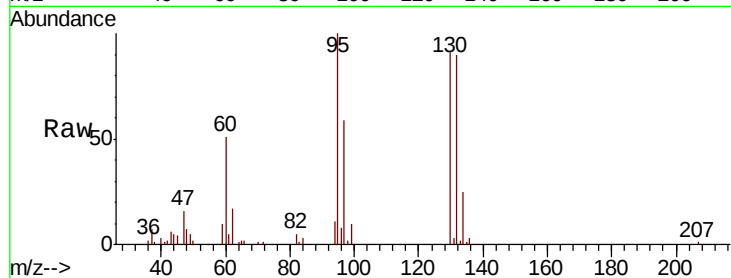
ClientSampleId :

Tot Ion:130 Resp: 33169

Ion Ratio Lower Upper

130 100

95 110.3 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058155.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058155.D (-2176) (-)

8.82

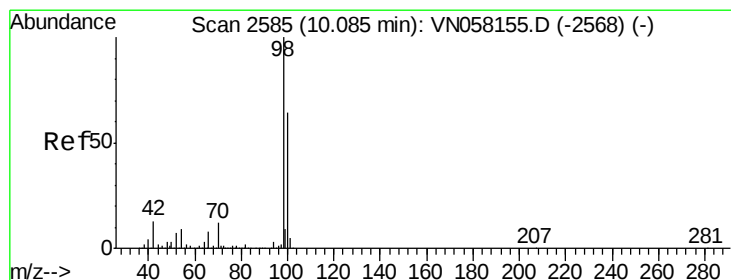
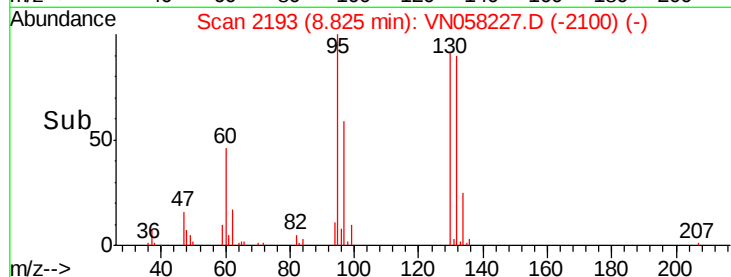
15000

10000

5000

0

Time-->



#50

Toluene-d8

Concen: 52.998 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058227.D

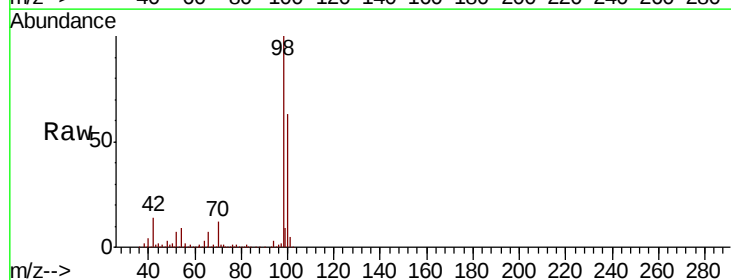
Acq: 20 Sep 2019 00:02

Tgt Ion: 98 Resp: 1051039

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058155.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058155.D (-2568) (-)

10.08

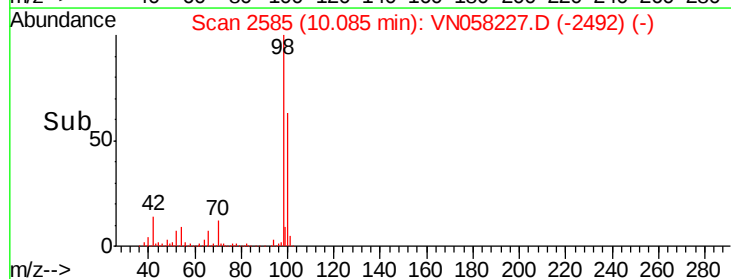
600000

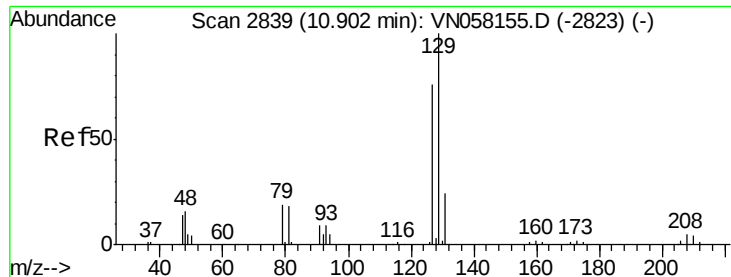
400000

200000

0

Time-->

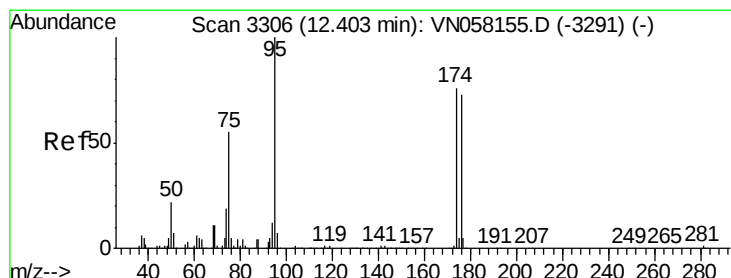
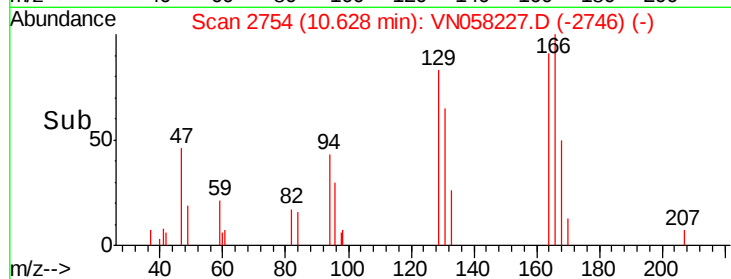
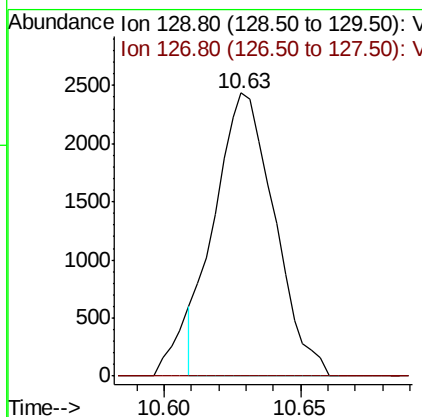
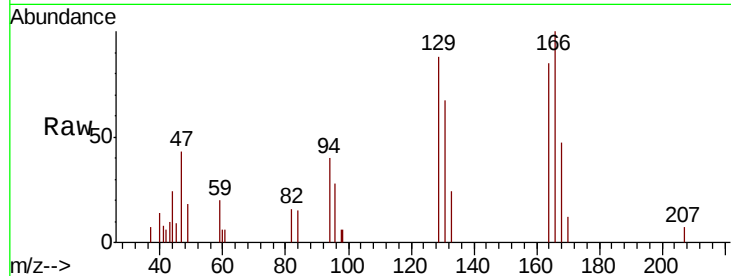




#60
Dibromochloromethane
Concen: 0.747 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

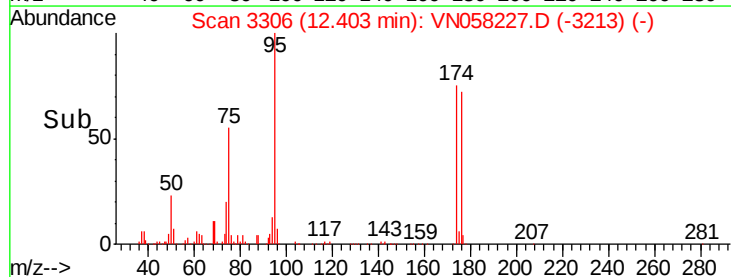
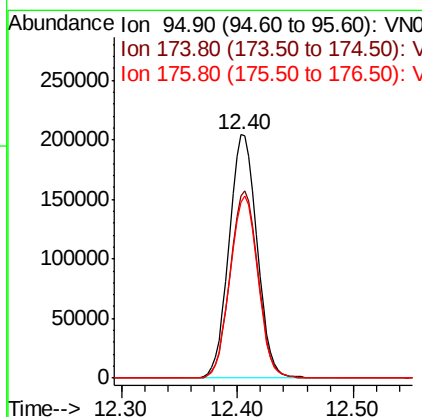
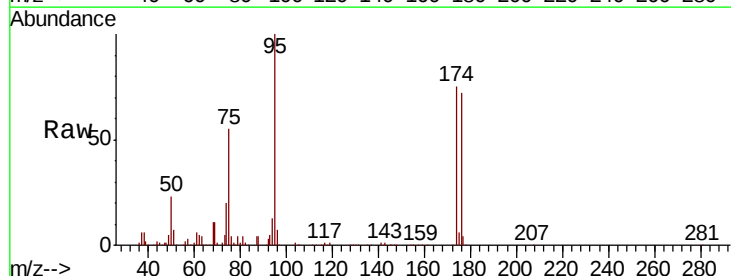
Instrument :
MSVOA_N
ClientSampleId :

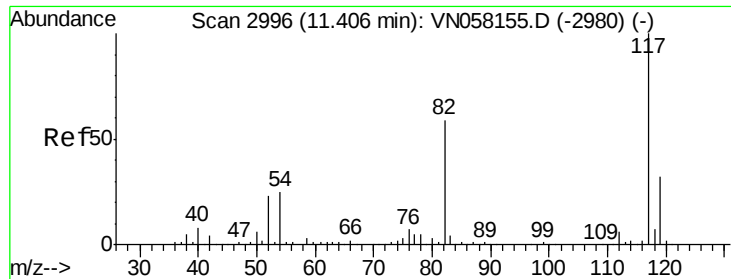
Tot Ion:129 Resp: 3688
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#



#62
4-Bromofluorobenzene
Concen: 46.169 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Tgt Ion: 95 Resp: 340110
Ion Ratio Lower Upper
95 100
174 76.7 0.0 152.2
176 74.7 0.0 148.0

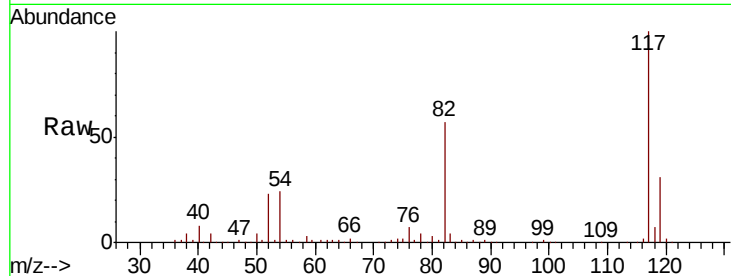




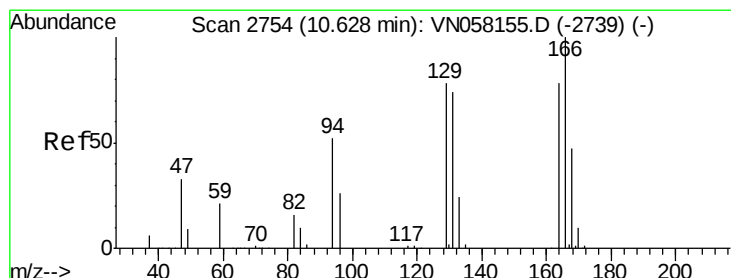
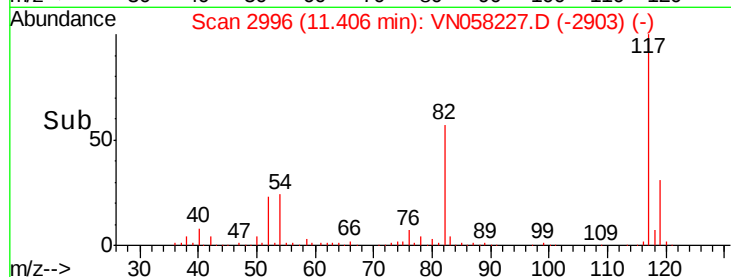
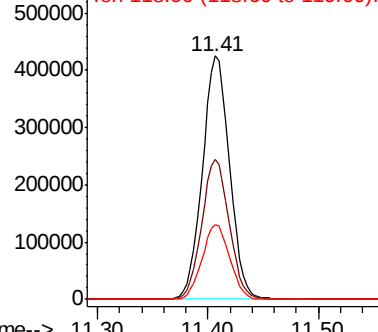
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 725729
Ion Ratio Lower Upper
117 100
82 57.4 46.9 70.3
119 30.7 25.3 37.9

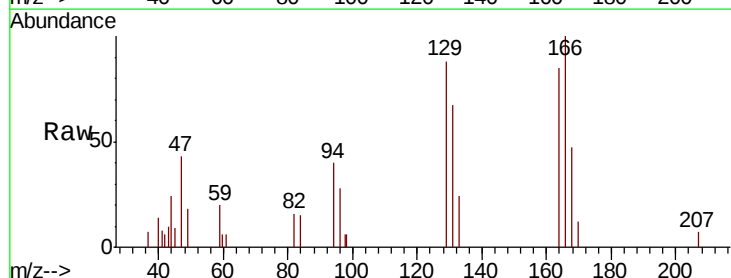


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

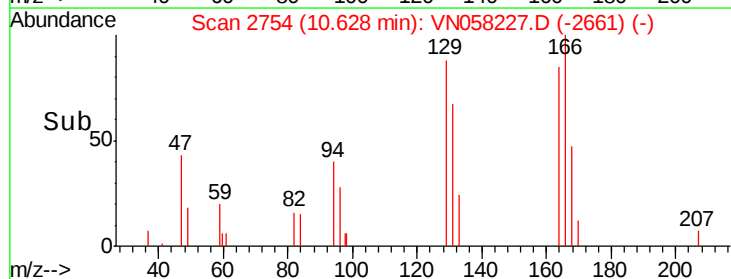
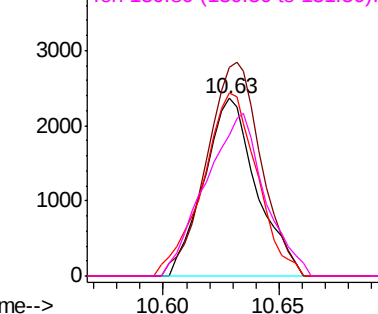


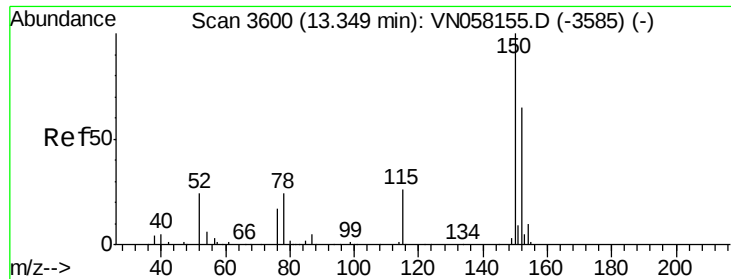
#64
Tetrachloroethene
Concen: 1.053 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058227.D
Acq: 20 Sep 2019 00:02

Tgt Ion:164 Resp: 3725
Ion Ratio Lower Upper
164 100
166 117.5 102.2 153.4
129 102.9 79.6 119.4
131 79.0 76.0 114.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

Instrument :

MSVOA_N

ClientSampleId :

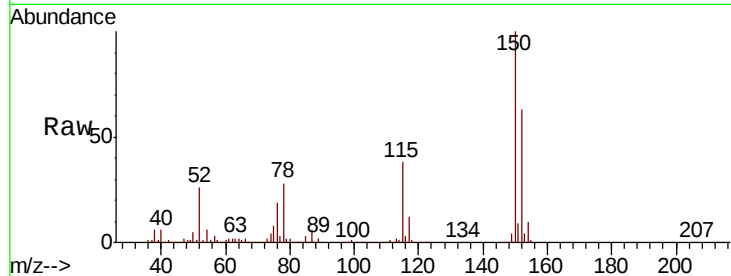
Tot Ion:152 Resp: 301959

Ion Ratio Lower Upper

152 100

115 60.4 30.1 90.3

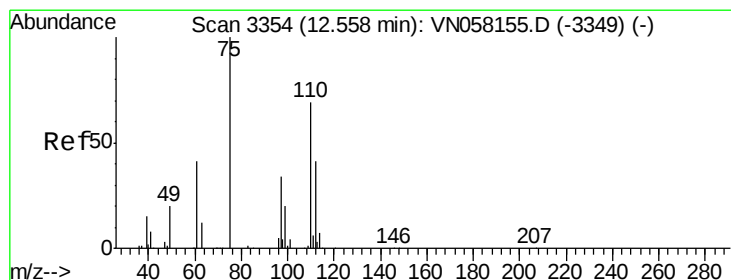
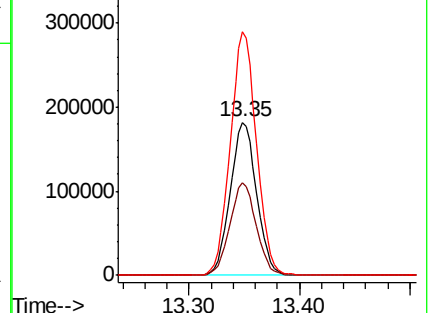
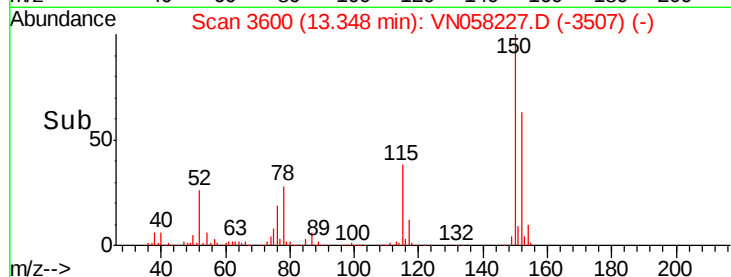
150 157.4 0.0 346.4



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: 34.924 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058227.D

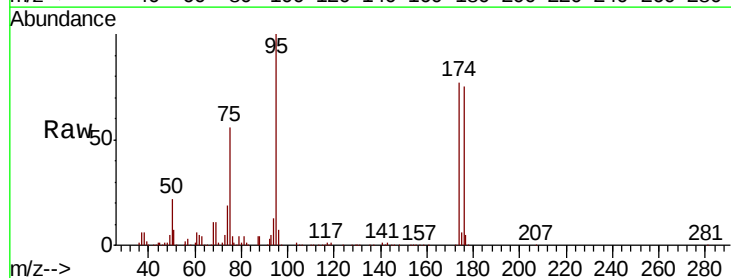
Acq: 20 Sep 2019 00:02

Tgt Ion: 75 Resp: 188736

Ion Ratio Lower Upper

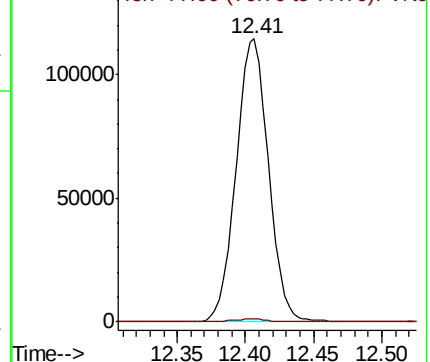
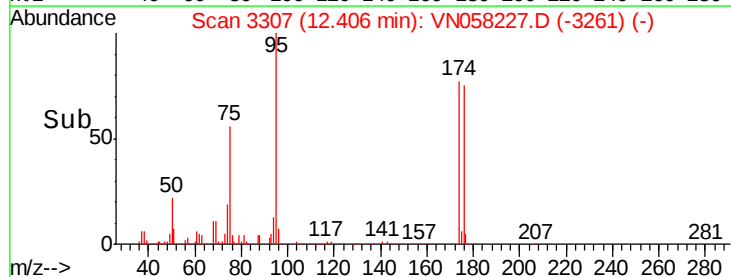
75 100

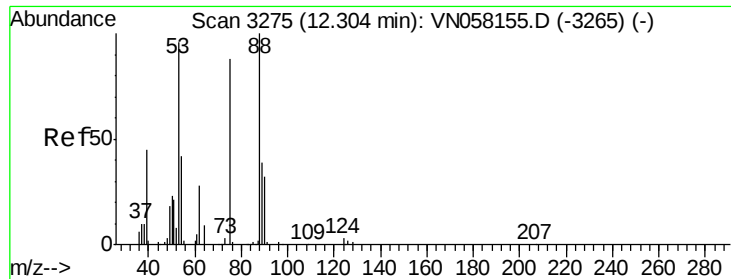
77 1.1 0.0 0.0#



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: 97.709 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058227.D

Acq: 20 Sep 2019 00:02

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 188736

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

