

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058216.D
 Acq On : 19 Sep 2019 20:00
 Operator : JC/SP
 Sample : K4896-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D3-20190912

Quant Time: Sep 20 04:25:09 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	494407	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	803224	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	681914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	287578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	359588	52.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.44%	
35) Dibromofluoromethane	7.58	113	246251	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
50) Toluene-d8	10.08	98	1024881	53.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.74%	
62) 4-Bromofluorobenzene	12.40	95	329106	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	

Target Compounds

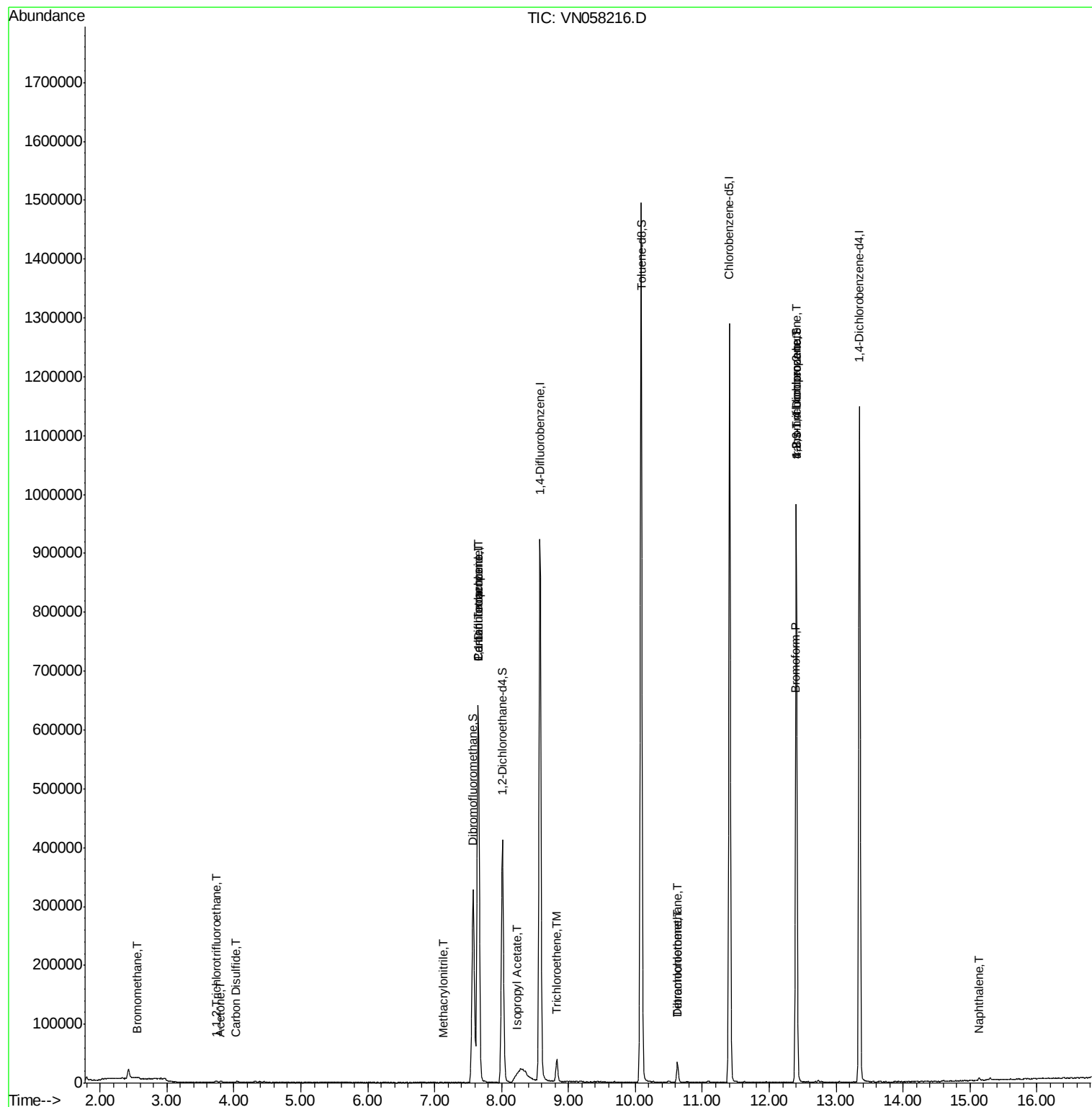
						Qvalue
3) Chloromethane	2.04	50	1118	Below Cal	#	84
4) Vinyl Chloride	2.44	62	29	Below Cal	#	43
5) Bromomethane	2.56	94	208	0.836	ug/l #	4
6) Chloroethane	2.66	64	77	Below Cal	#	44
9) 1,1,2-Trichlorotrifluoroet	3.75	101	837	0.209	ug/l #	60
12) 1,1-Dichloroethene	3.72	96	265	Below Cal	#	34
16) Acetone	3.81	43	3860	1.651	ug/l	100
17) Carbon Disulfide	4.02	76	273	0.334	ug/l #	74
20) Methylene Chloride	4.54	84	136	Below Cal	#	15
31) Cyclohexane	7.64	56	12767	Below Cal	#	33
36) 1,1-Dichloropropene	7.65	75	42475	7.333	ug/l #	51
38) Carbon Tetrachloride	7.65	117	51333	8.816	ug/l #	14
41) Methacrylonitrile	7.13	41	31	0.921	ug/l #	100
43) Isopropyl Acetate	8.22	43	12025	1.071	ug/l #	57
44) Trichloroethene	8.83	130	13060	3.017	ug/l	97
60) Dibromochloromethane	10.63	129	7285	1.539	ug/l #	11
64) Tetrachloroethene	10.63	164	7963	2.395	ug/l	90
71) Bromoform	12.38	173	61	3.613	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	181011	35.170	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	181011	98.355	ug/l #	5
95) Naphthalene	15.13	128	3881	0.283	ug/l #	89

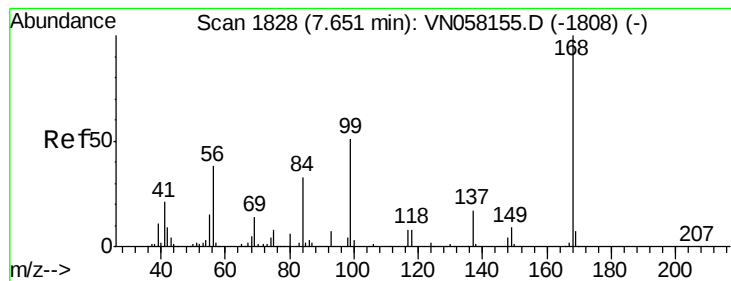
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 19 09:27:53 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: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

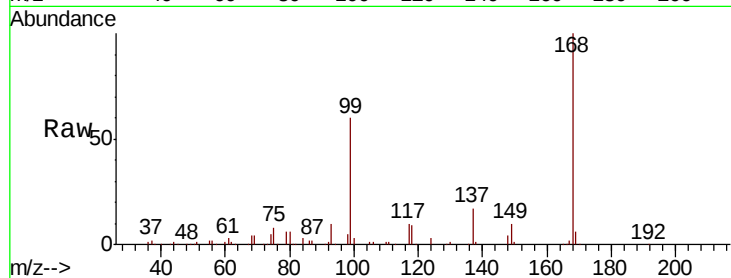
RE126D3-20190912

Tot Ion:168 Resp: 494407

Ion Ratio Lower Upper

168 100

99 60.5 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

200000

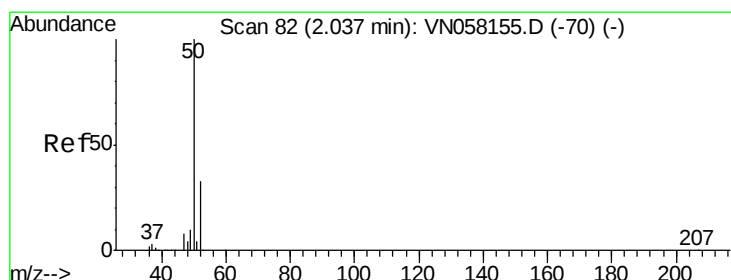
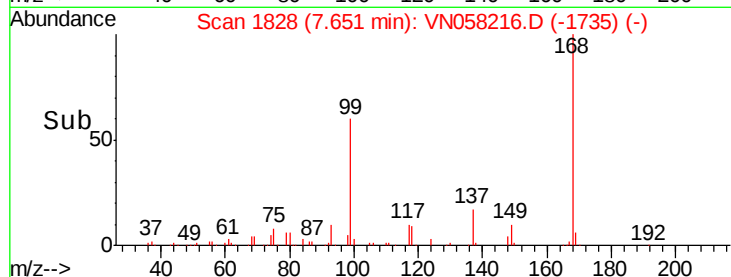
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058216.D

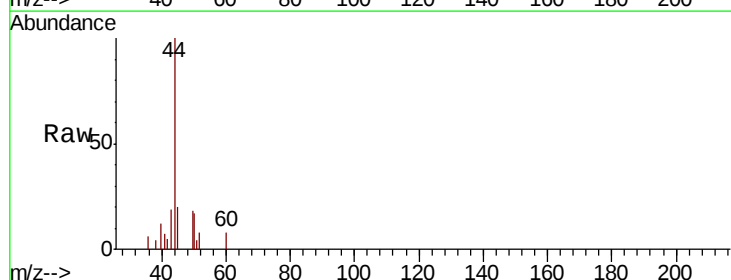
Acq: 19 Sep 2019 20:00

Tgt Ion: 50 Resp: 1118

Ion Ratio Lower Upper

50 100

52 23.6 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN058155.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058155.D (-70) (-)

2.04

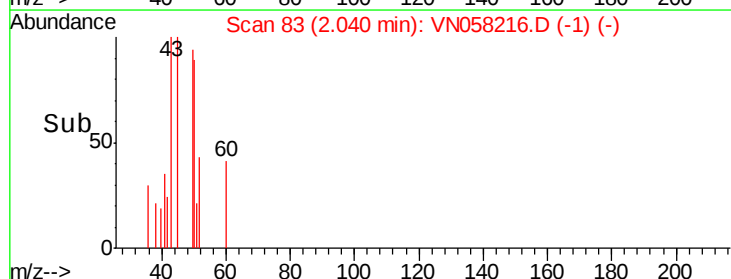
1500

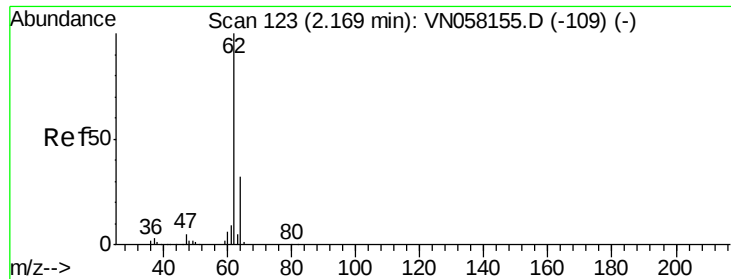
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.44 min Scan# 206

Delta R.T. 0.27 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

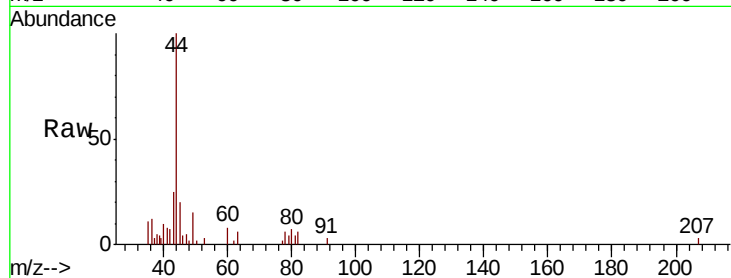
RE126D3-20190912

Tot Ion: 62 Resp: 29

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

300

250

200

150

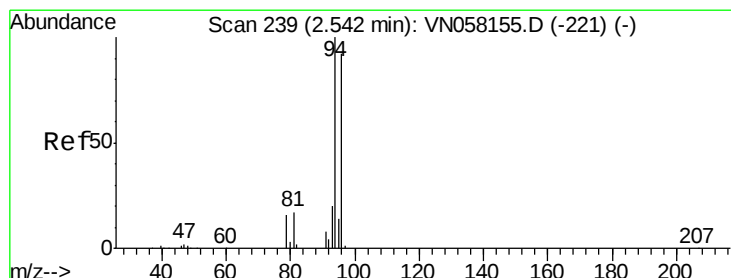
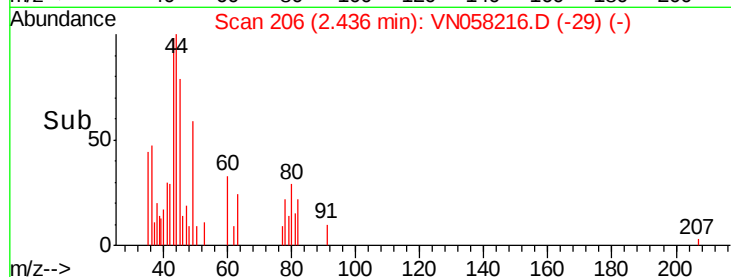
100

50

0

2.42 2.43 2.44 2.44 2.44

Time-->



#5

Bromomethane

Concen: 0.836 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058216.D

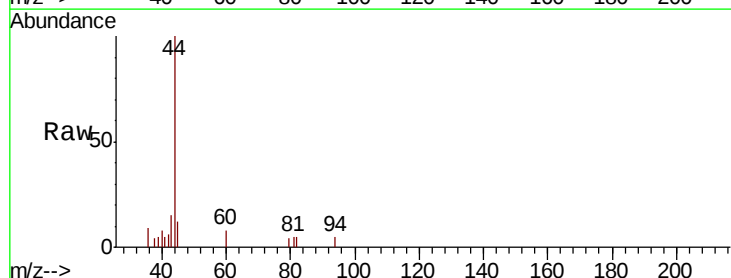
Acq: 19 Sep 2019 20:00

Tgt Ion: 94 Resp: 208

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

300

250

200

150

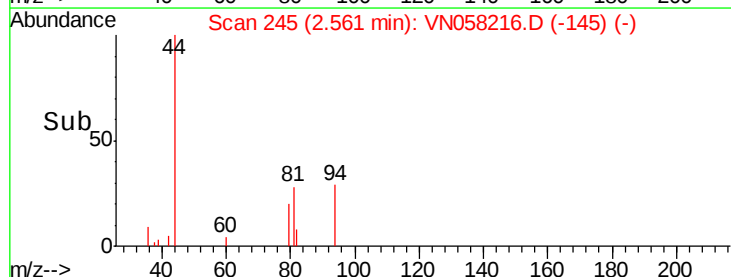
100

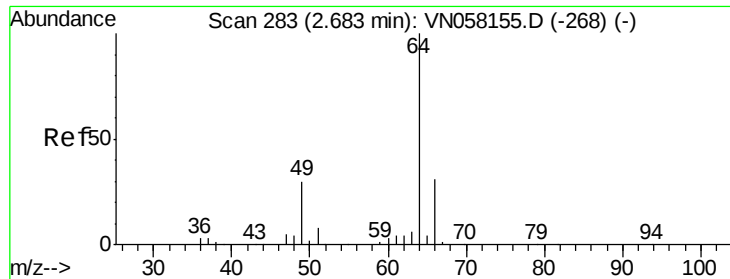
50

0

2.54 2.55 2.56 2.57 2.58

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.66 min Scan# 275

Delta R.T. -0.03 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

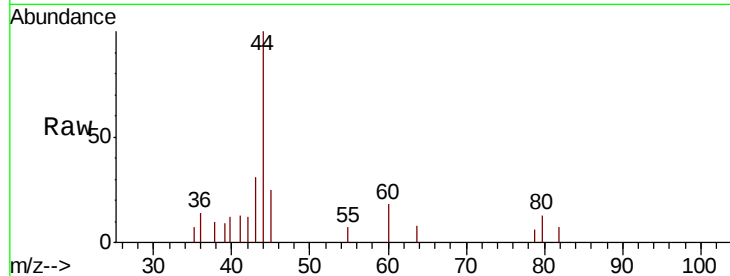
RE126D3-20190912

Tot Ion: 64 Resp: 77

Ion Ratio Lower Upper

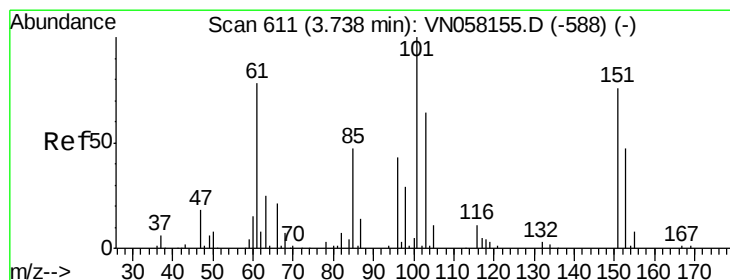
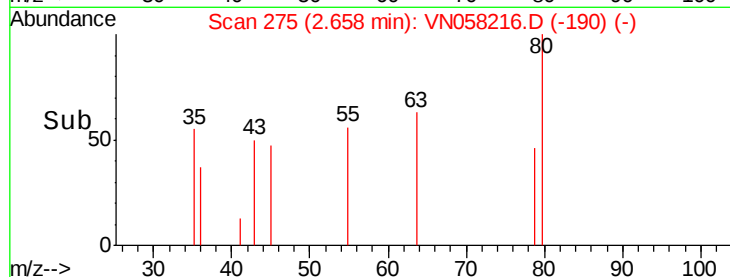
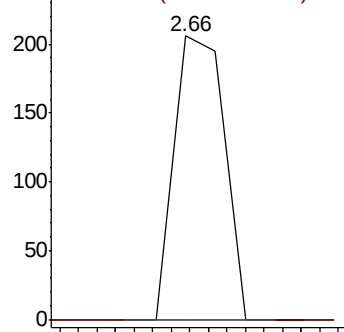
64 100

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



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.209 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.01 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

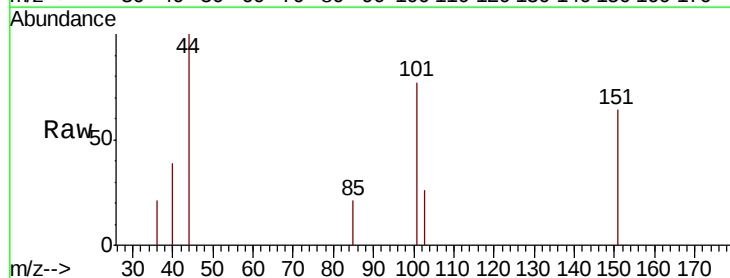
Tgt Ion: 101 Resp: 837

Ion Ratio Lower Upper

101 100

85 31.4 37.3 55.9#

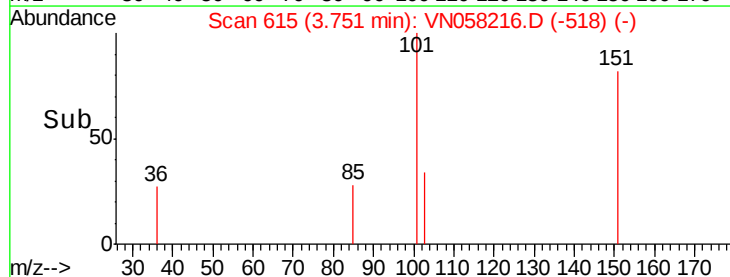
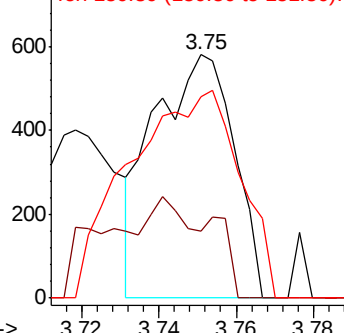
151 117.9 59.6 89.4#

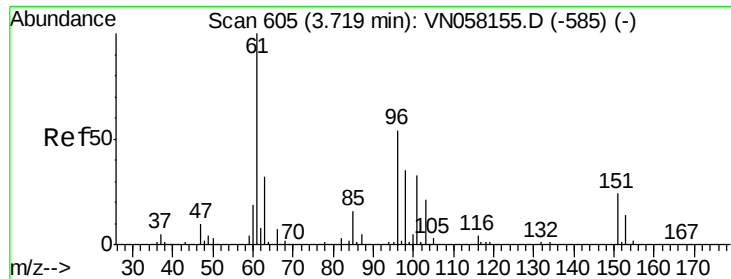


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

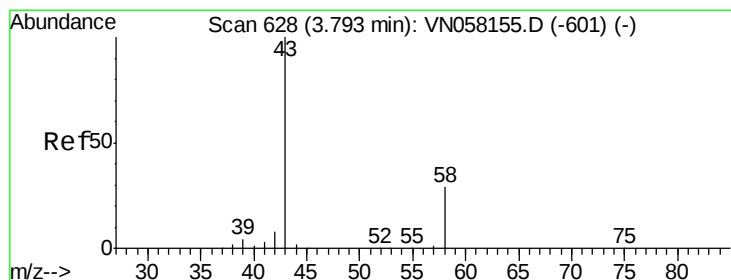
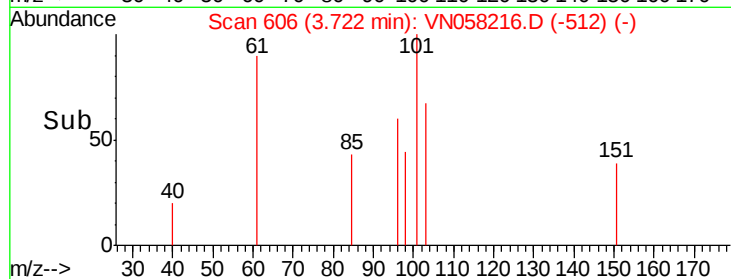
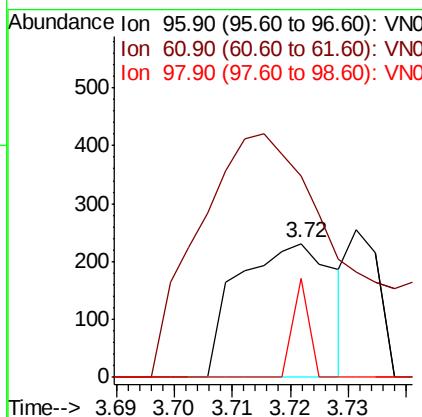
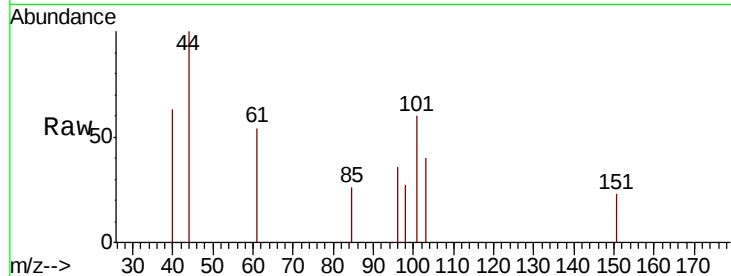




#12
 1,1-Dichloroethene
 Concen: Below Cal
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

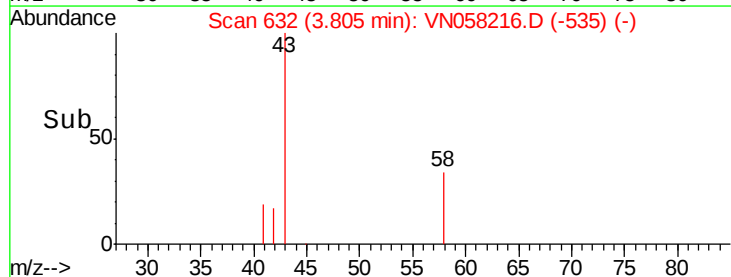
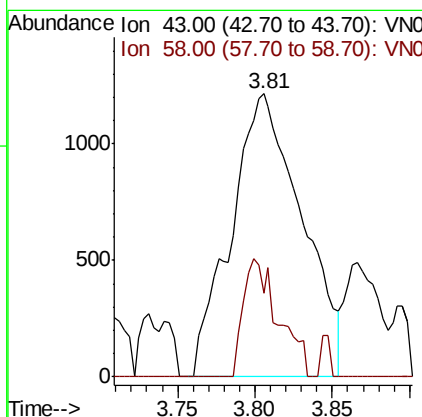
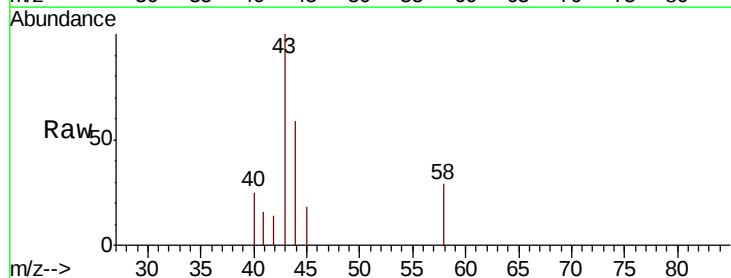
Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D3-20190912

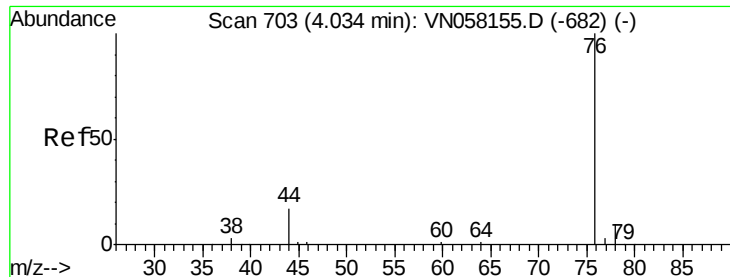
Tot Ion: 96 Resp: 265
 Ion Ratio Lower Upper
 96 100
 61 62.3 149.5 224.3#
 98 74.0 52.4 78.6



#16
 Acetone
 Concen: 1.651 ug/l
 RT: 3.81 min Scan# 632
 Delta R.T. 0.01 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

Tgt Ion: 43 Resp: 3860
 Ion Ratio Lower Upper
 43 100
 58 29.4 23.4 35.2





#17

Carbon Disulfide

Concen: 0.334 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.02 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

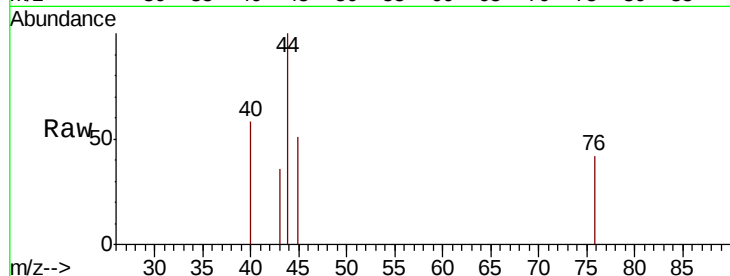
RE126D3-20190912

Tot Ion: 76 Resp: 273

Ion Ratio Lower Upper

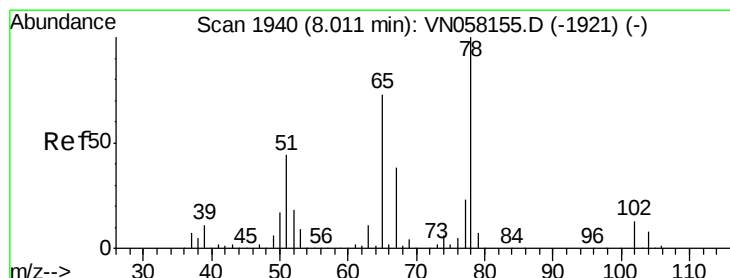
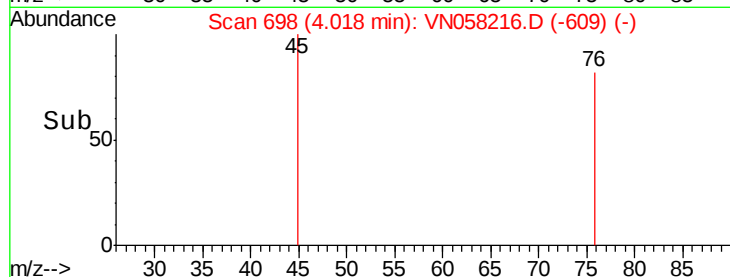
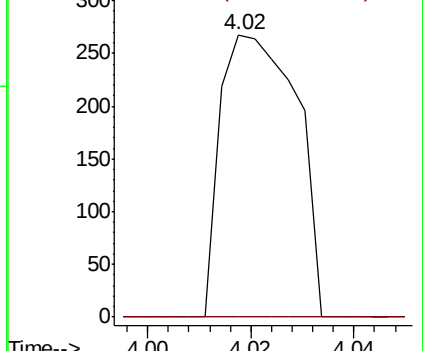
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.219 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058216.D

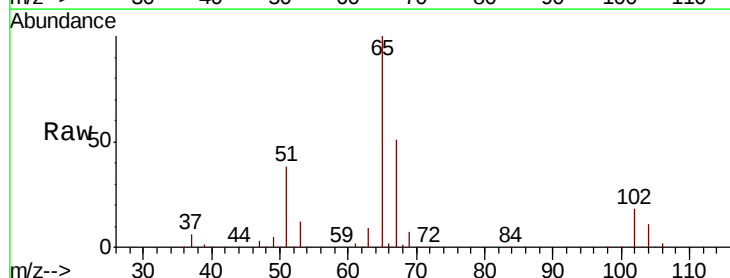
Acq: 19 Sep 2019 20:00

Tgt Ion: 65 Resp: 359588

Ion Ratio Lower Upper

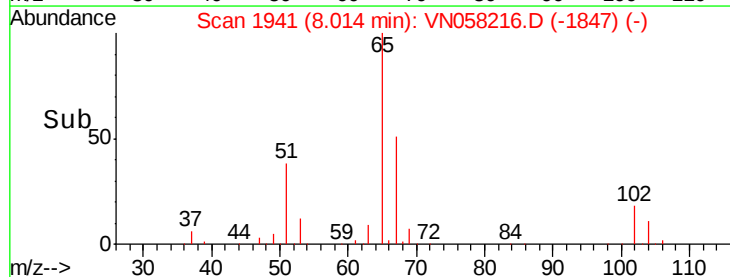
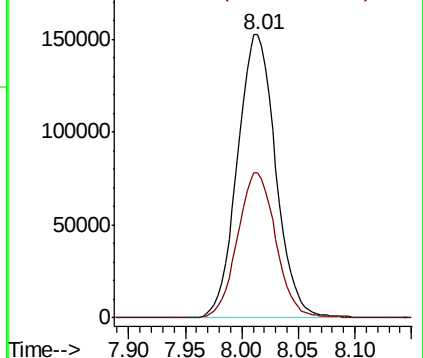
65 100

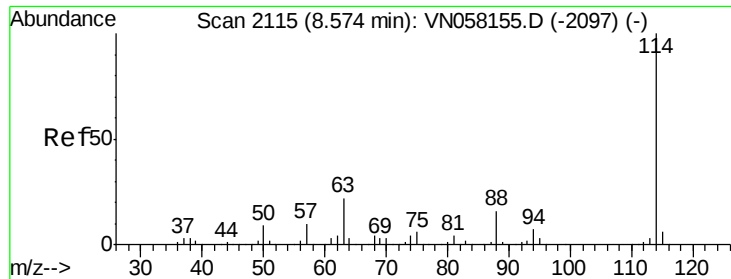
67 51.3 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

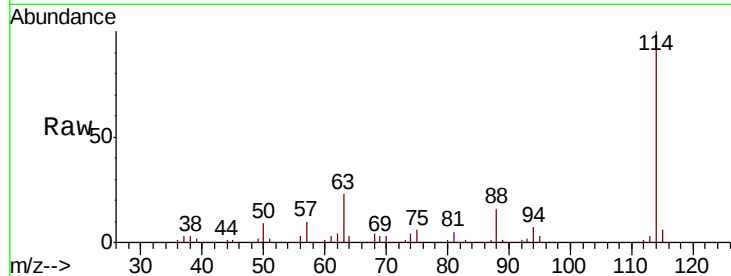




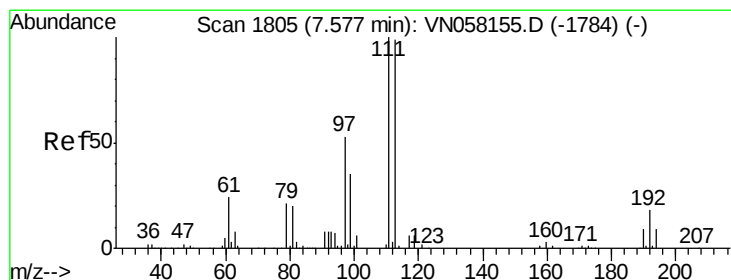
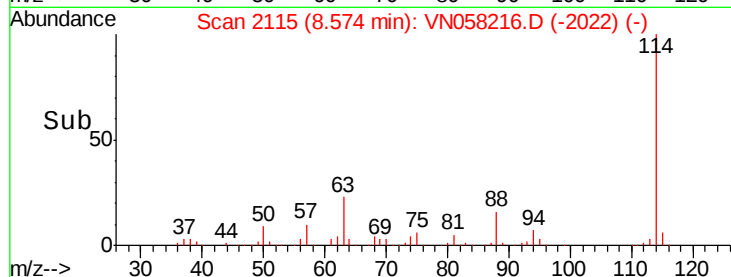
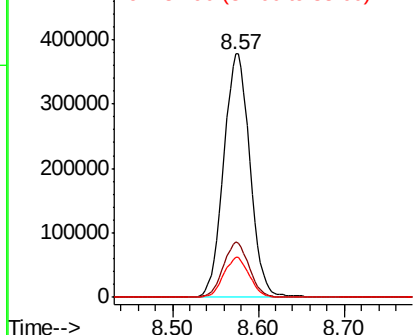
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058216.D
Acq: 19 Sep 2019 20:00

Instrument :
MSVOA_N
ClientSampleId :
RE126D3-20190912

Tot Ion:114 Resp: 803224
Ion Ratio Lower Upper
114 100
63 22.5 0.0 44.2
88 16.4 0.0 31.6

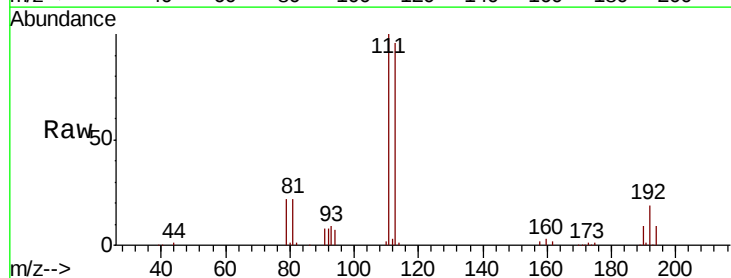


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

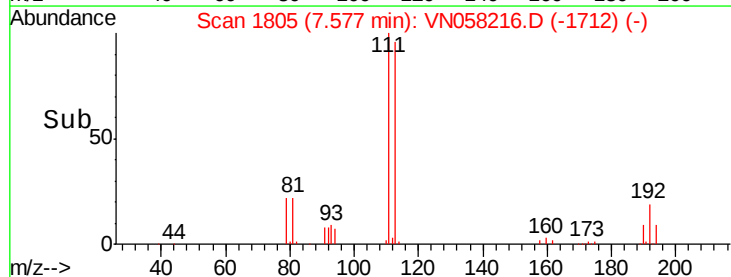
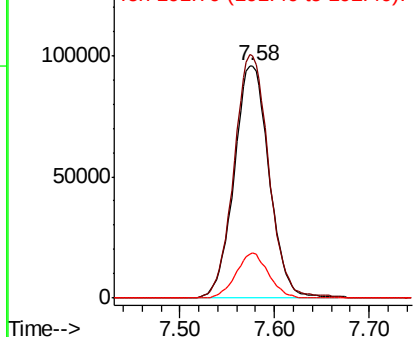


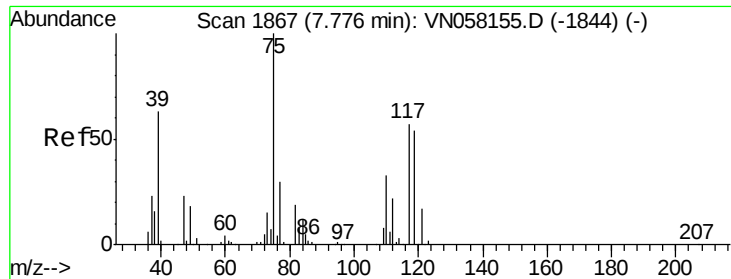
#35
Dibromofluoromethane
Concen: 50.431 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. -0.00 min
Lab File: VN058216.D
Acq: 19 Sep 2019 20:00

Tgt Ion:113 Resp: 246251
Ion Ratio Lower Upper
113 100
111 104.4 81.8 122.6
192 18.1 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

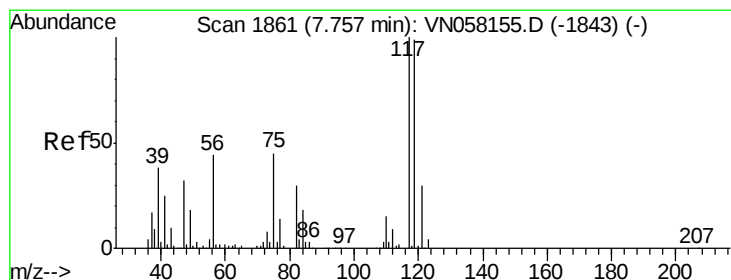
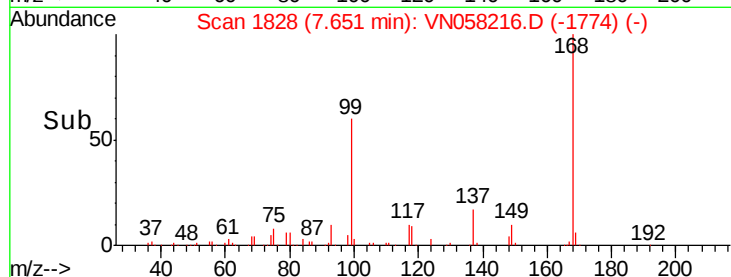
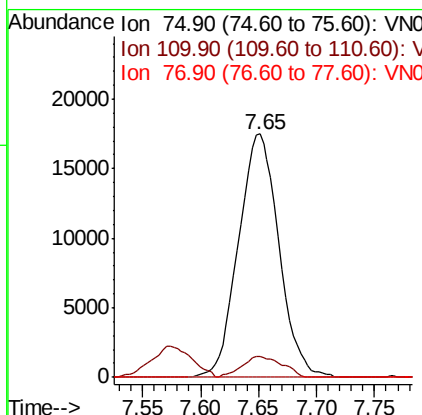
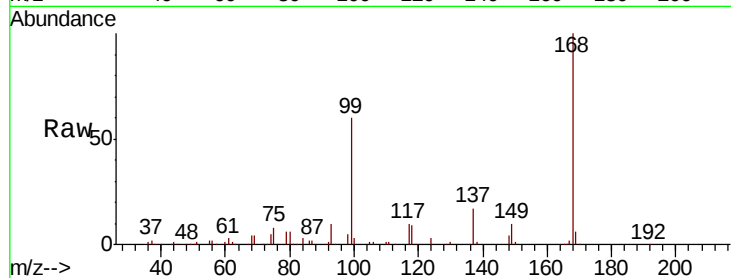




#36
 1,1-Dichloropropene
 Concen: 7.333 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

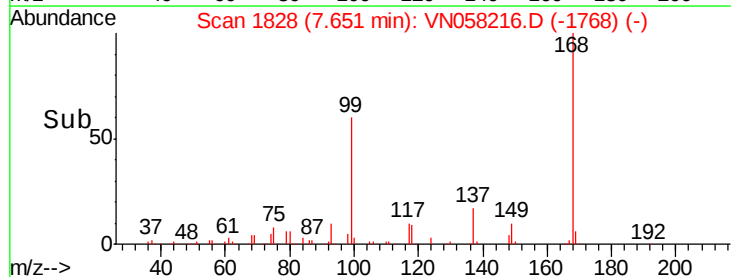
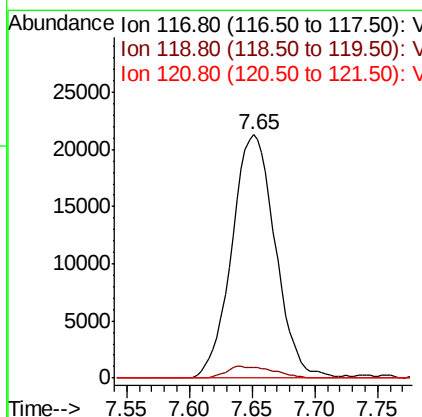
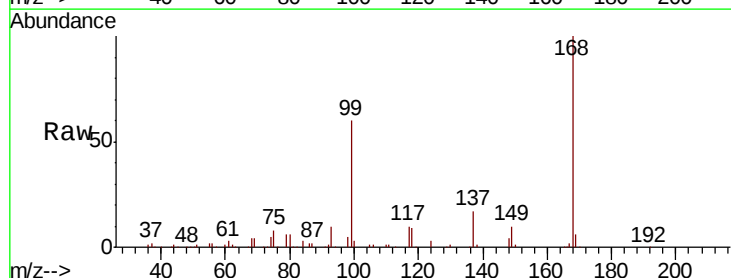
Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D3-20190912

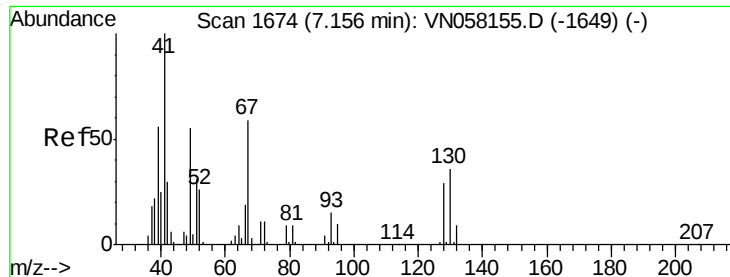
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.816 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	78.6	117.8#
121	0.0	24.1	36.1#

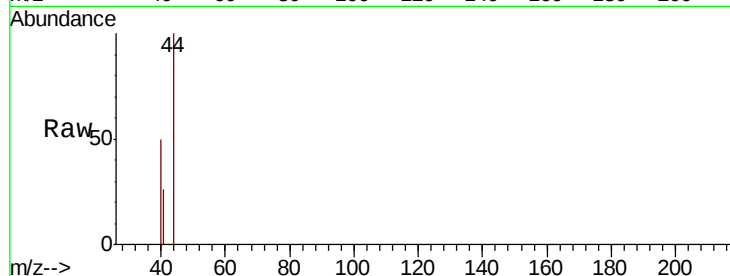




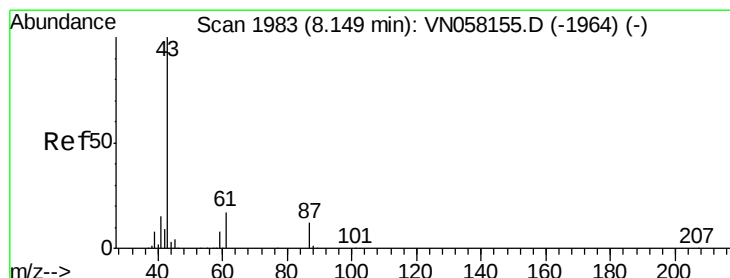
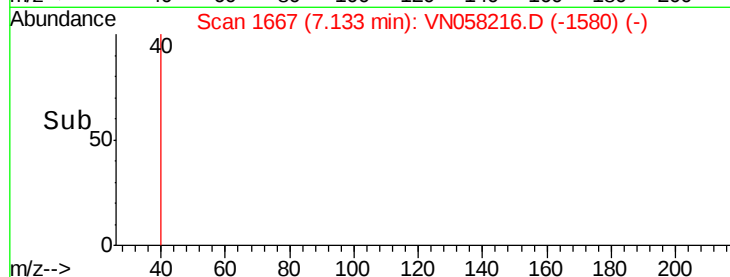
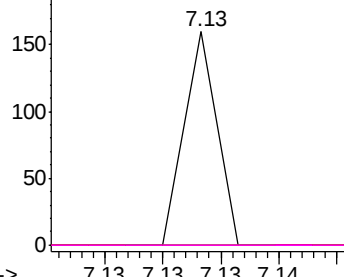
#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.13 min Scan# 1667
Delta R.T. -0.02 min
Lab File: VN058216.D
Acq: 19 Sep 2019 20:00

Instrument :
MSVOA_N
ClientSampleId :
RE126D3-20190912

Tot Ion:	41	Resp:	31
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

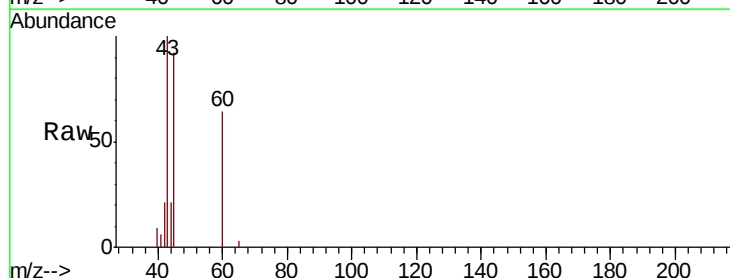


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

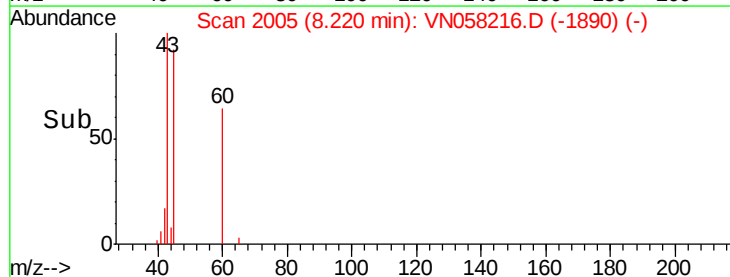
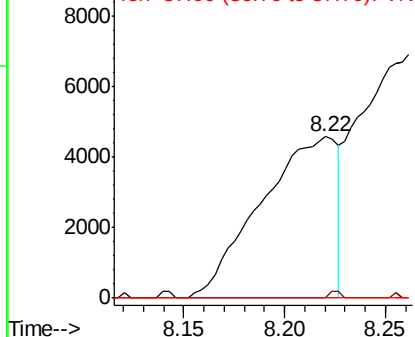


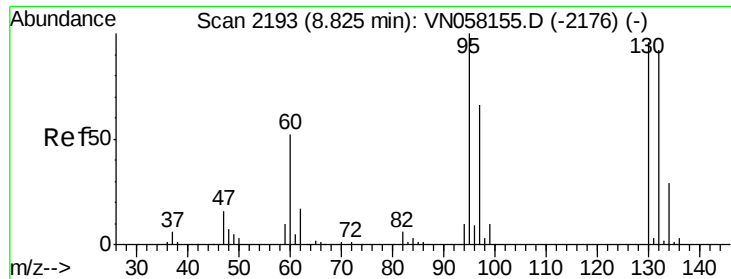
#43
Isopropyl Acetate
Concen: 1.071 ug/l
RT: 8.22 min Scan# 2005
Delta R.T. 0.07 min
Lab File: VN058216.D
Acq: 19 Sep 2019 20:00

Tgt Ion:	43	Resp:	12025
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#



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

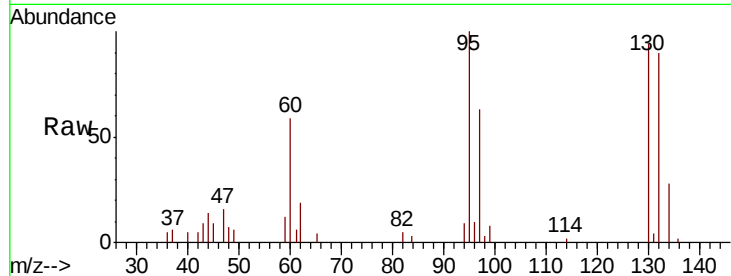




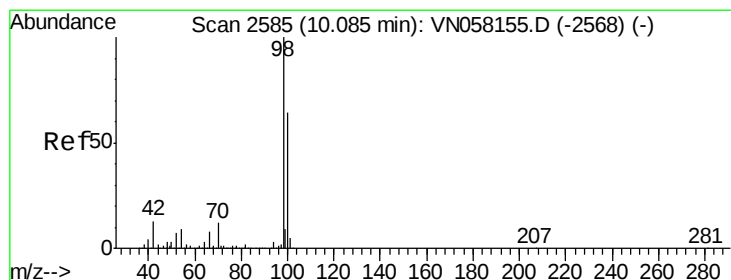
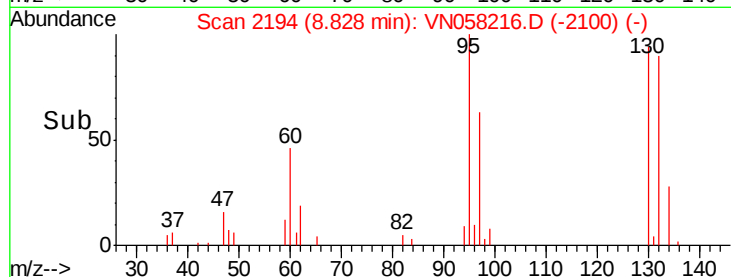
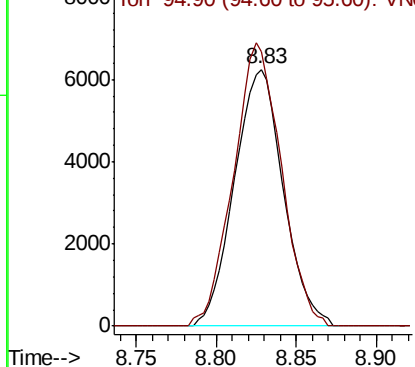
#44
 Trichloroethene
 Concen: 3.017 ug/l
 RT: 8.83 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D3-20190912

Tot Ion:130 Resp: 13060
 Ion Ratio Lower Upper
 130 100
 95 106.9 0.0 207.8

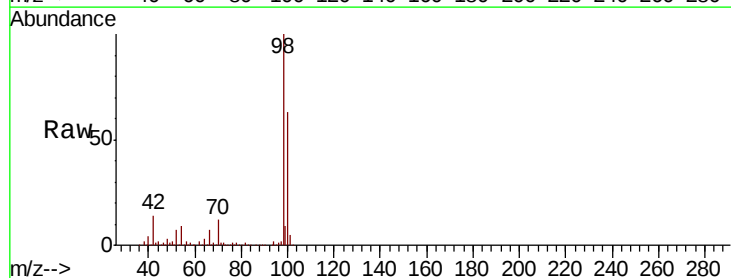


Abundance Ion 129.80 (129.50 to 130.50): VN058155.D (-2176) (-)
 Ion 94.90 (94.60 to 95.60): VN058155.D (-2176) (-)

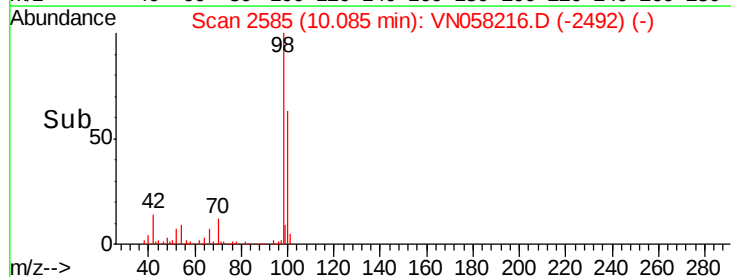
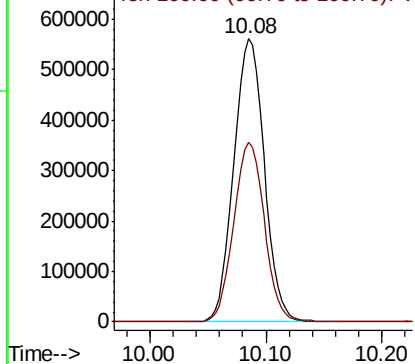


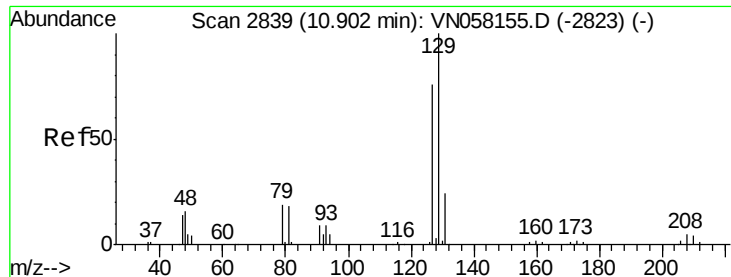
#50
 Toluene-d8
 Concen: 53.870 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

Tgt Ion: 98 Resp: 1024881
 Ion Ratio Lower Upper
 98 100
 100 63.6 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) (-)

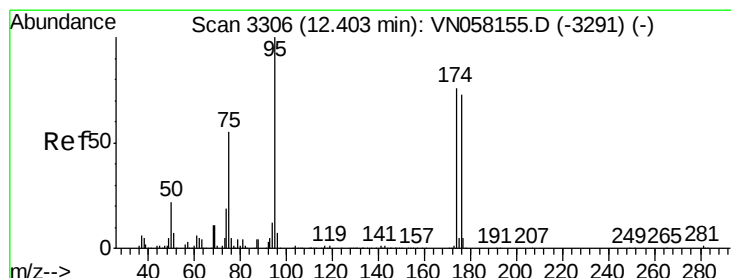
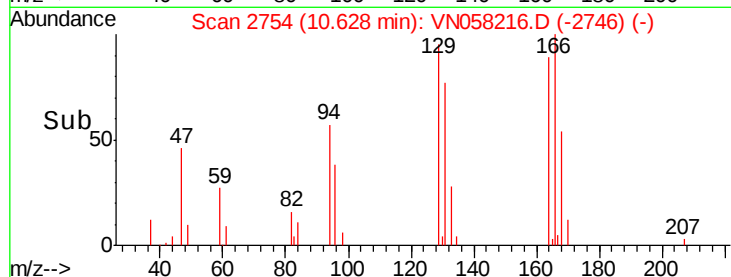
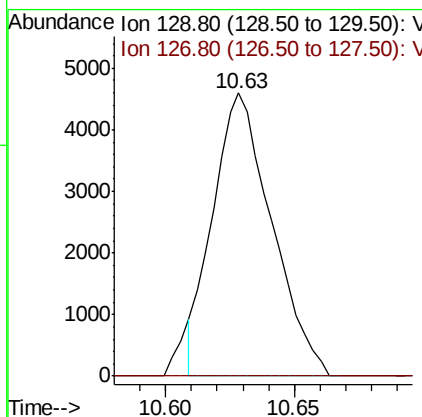
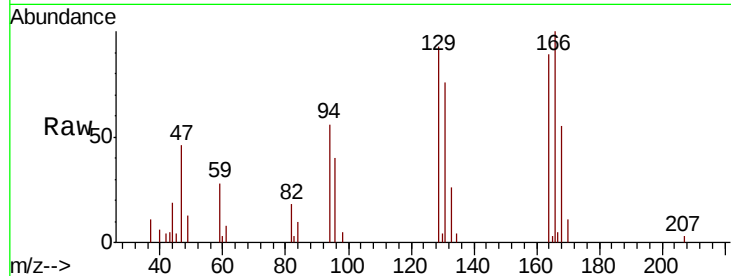




#60
 Dibromochloromethane
 Concen: 1.539 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

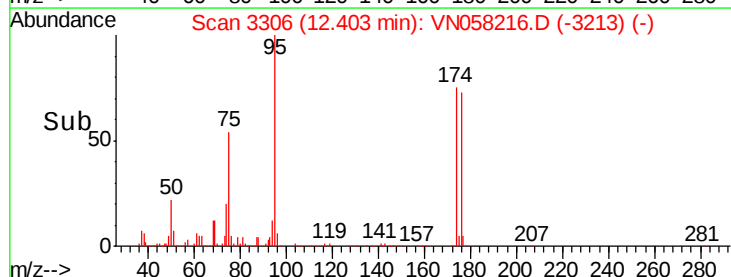
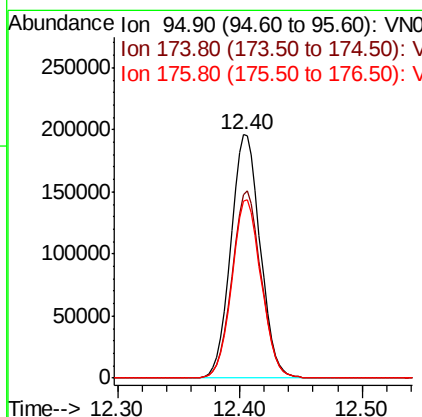
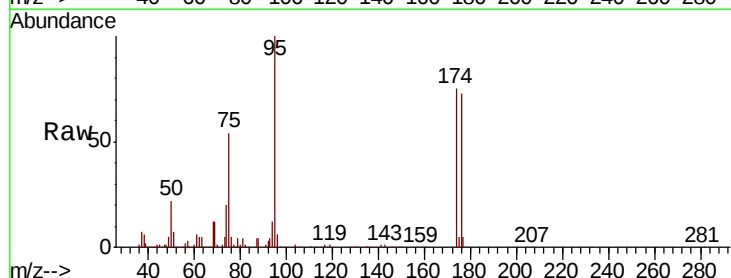
Instrument :
 MSVOA_N
 ClientSampleId :
 RE126D3-20190912

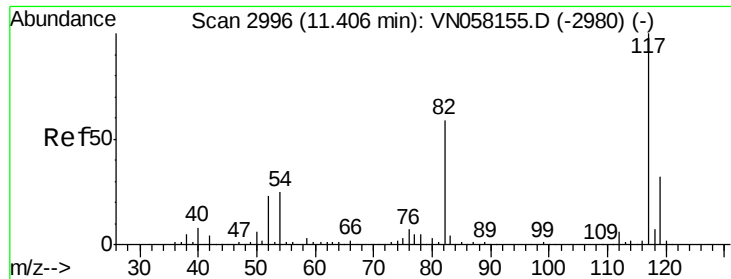
Tot Ion:129 Resp: 7285
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



#62
 4-Bromofluorobenzene
 Concen: 46.569 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.00 min
 Lab File: VN058216.D
 Acq: 19 Sep 2019 20:00

Tgt Ion: 95 Resp: 329106
 Ion Ratio Lower Upper
 95 100
 174 76.1 0.0 152.2
 176 73.3 0.0 148.0

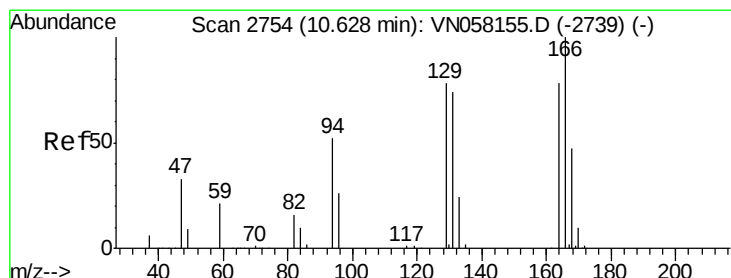
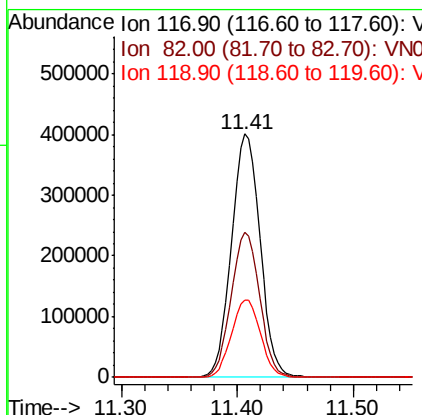
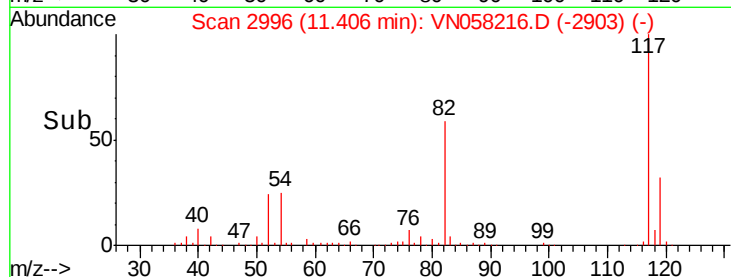
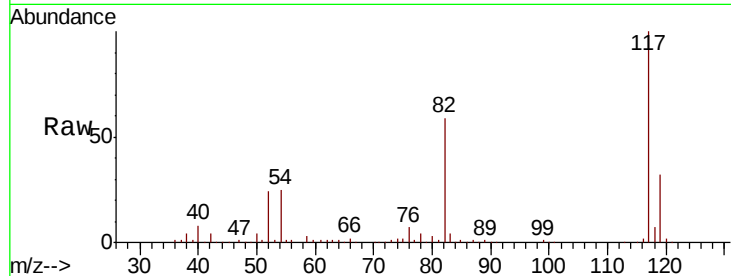




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058216.D
Acq: 19 Sep 2019 20:00

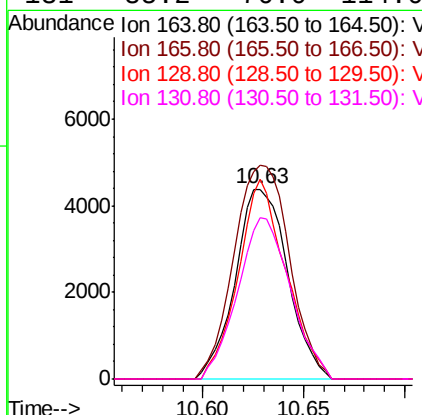
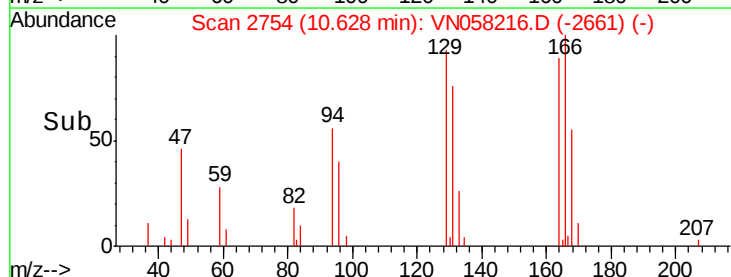
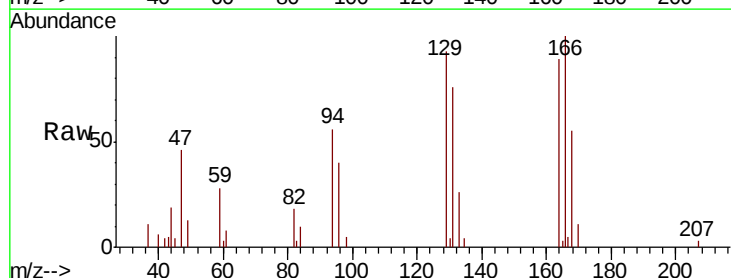
Instrument :
MSVOA_N
ClientSampleId :
RE126D3-20190912

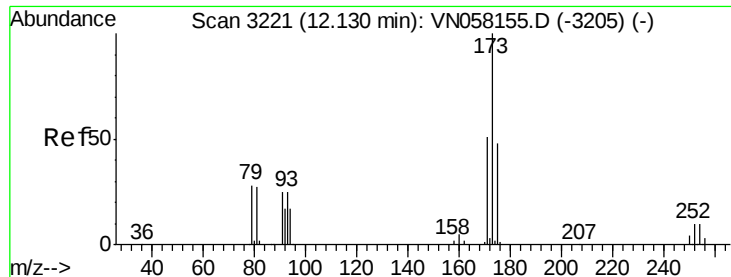
Tot Ion:117 Resp: 681914
Ion Ratio Lower Upper
117 100
82 59.5 46.9 70.3
119 31.9 25.3 37.9



#64
Tetrachloroethene
Concen: 2.395 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058216.D
Acq: 19 Sep 2019 20:00

Tgt Ion:164 Resp: 7963
Ion Ratio Lower Upper
164 100
166 112.5 102.2 153.4
129 104.9 79.6 119.4
131 85.2 76.0 114.0





#71

Bromoform

Concen: 3.613 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.25 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

RE126D3-20190912

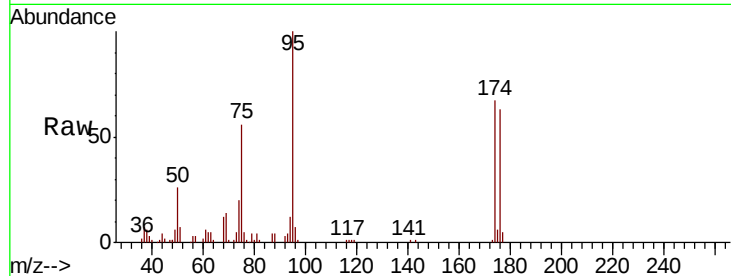
Tot Ion:173 Resp: 61

Ion Ratio Lower Upper

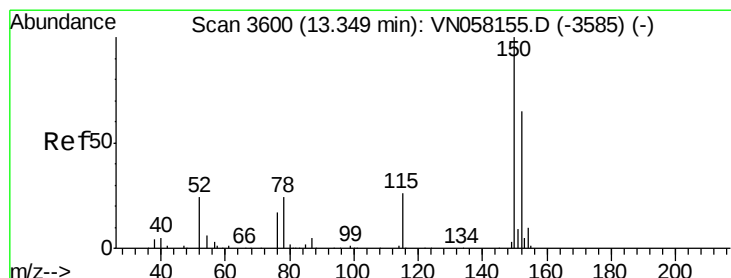
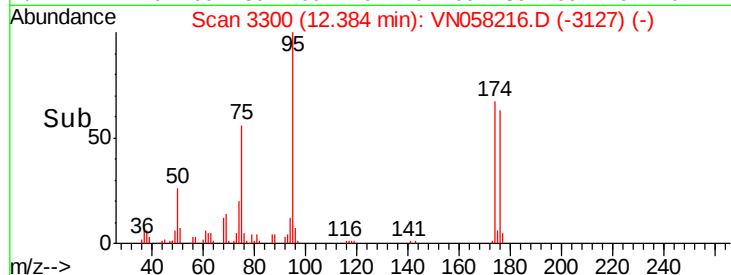
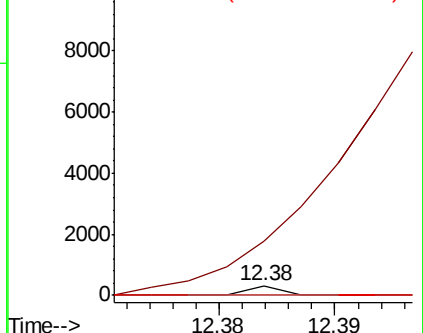
173 100

175 0.0 24.2 72.6#

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: VN058216.D

Acq: 19 Sep 2019 20:00

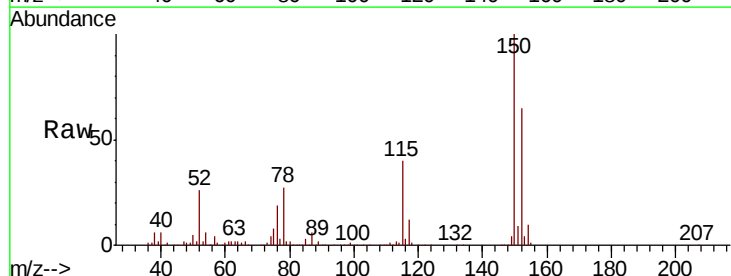
Tgt Ion:152 Resp: 287578

Ion Ratio Lower Upper

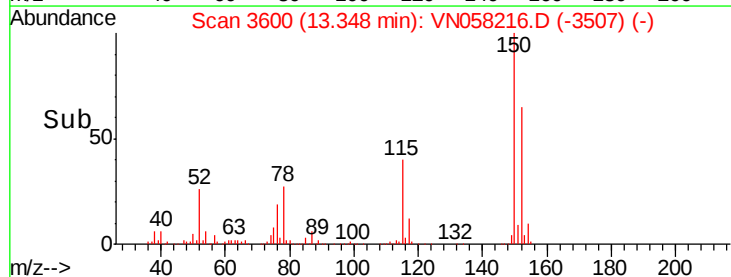
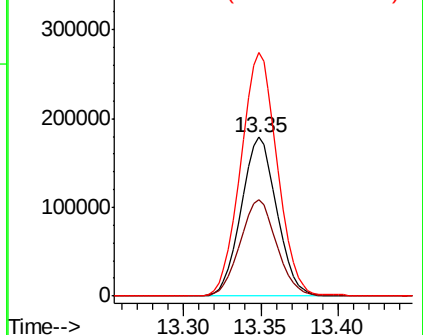
152 100

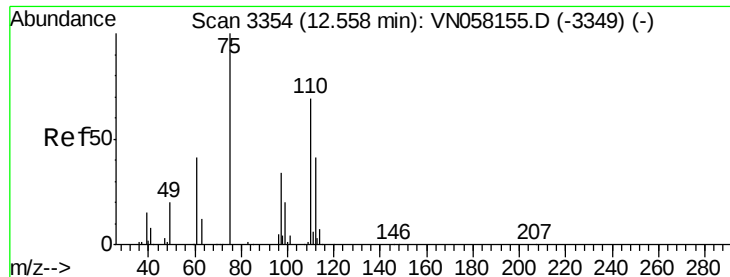
115 62.3 30.1 90.3

150 156.9 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: 35.170 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

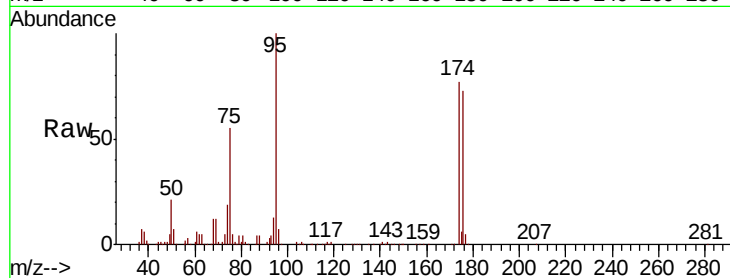
RE126D3-20190912

Tot Ion: 75 Resp: 181011

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

40000

20000

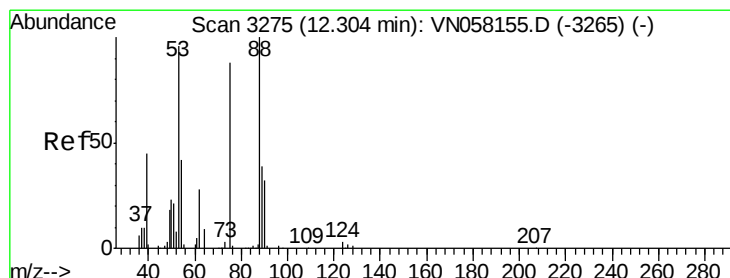
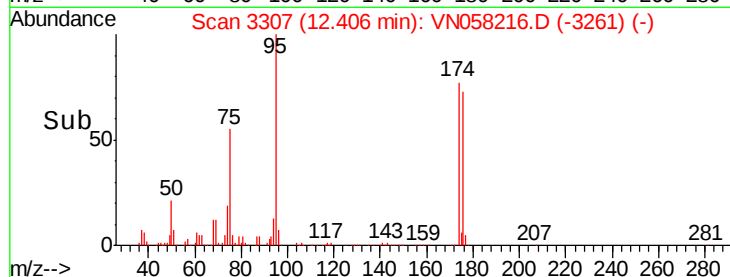
0

12.41

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 98.355 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

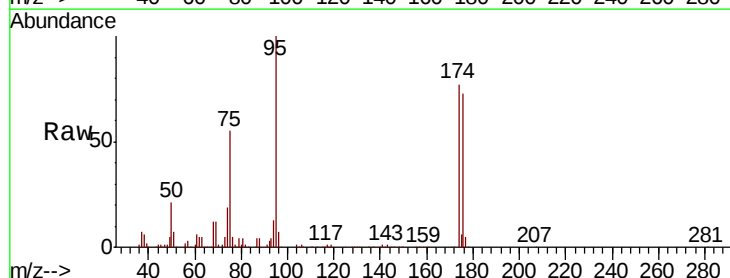
Tgt Ion: 75 Resp: 181011

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



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

150000

100000

50000

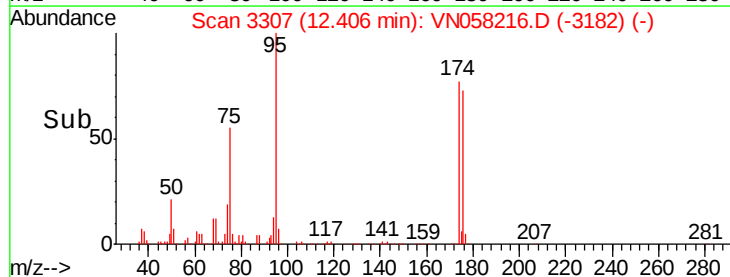
0

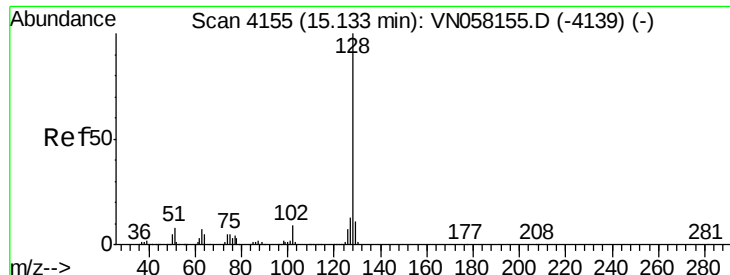
12.41

12.40

12.50

Time-->





#95

Naphthalene

Concen: 0.283 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058216.D

Acq: 19 Sep 2019 20:00

Instrument :

MSVOA_N

ClientSampleId :

RE126D3-20190912

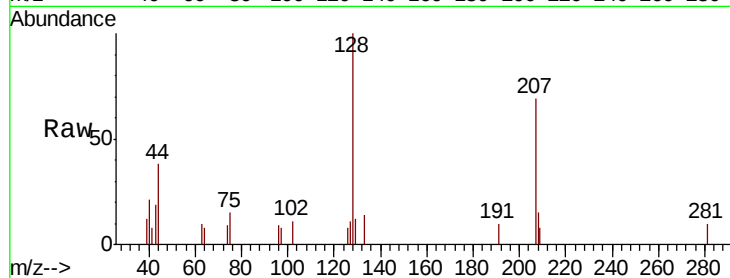
Tot Ion:128 Resp: 3881

Ion Ratio Lower Upper

128 100

127 9.8 10.2 15.2#

129 5.1 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

