

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092719\
 Data File : VN058411.D
 Acq On : 27 Sep 2019 16:29
 Operator : JC/SP
 Sample : PB123419TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123419TB

Quant Time: Sep 28 00:04:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 27 23:01:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	462735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	755357	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	661427	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266296	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	330223	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
35) Dibromofluoromethane	7.57	113	230064	50.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.10%	
50) Toluene-d8	10.09	98	943529	52.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.64%	
62) 4-Bromofluorobenzene	12.41	95	315480	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	

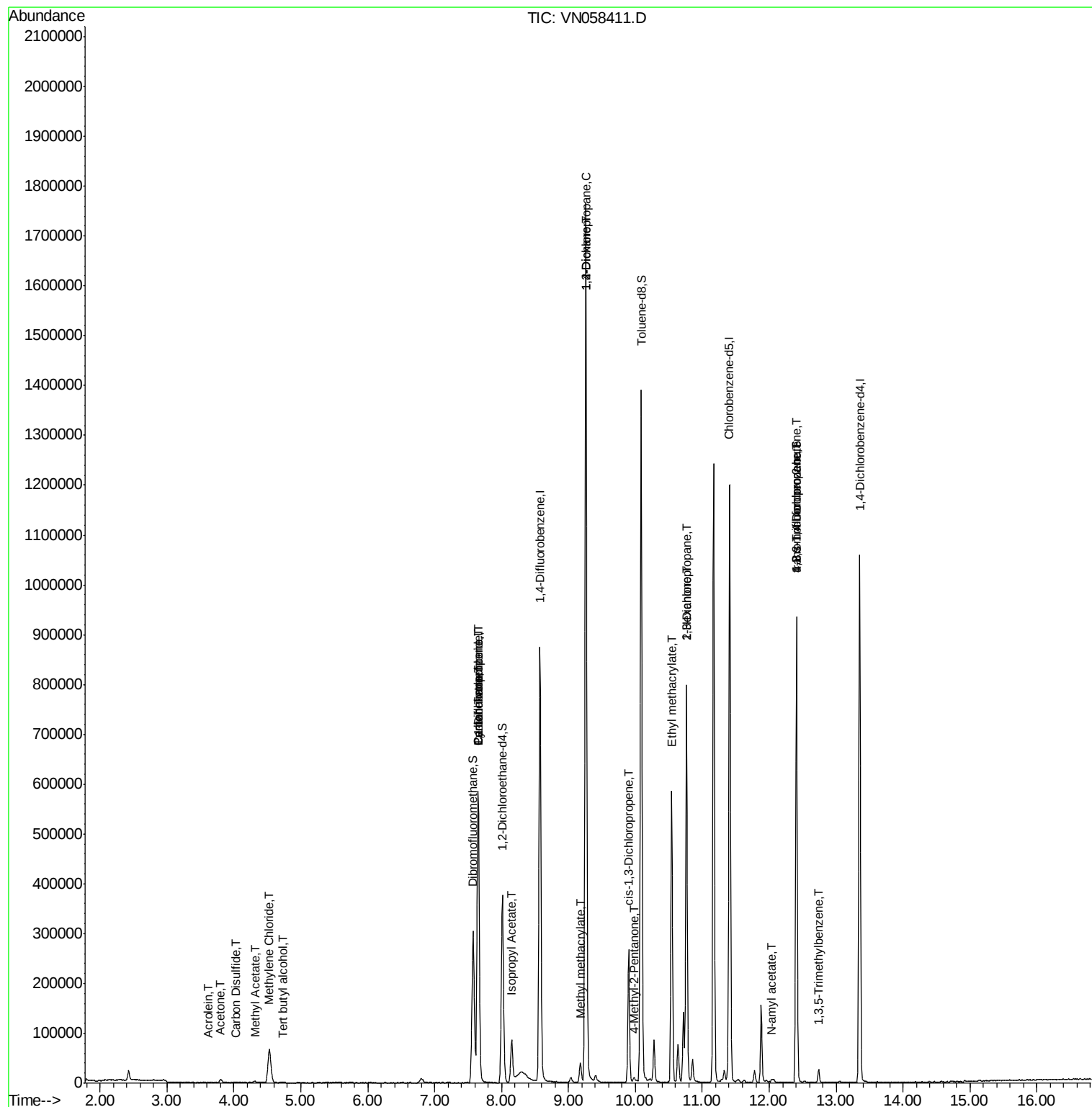
Target Compounds					Qvalue
11) Tert butyl alcohol	4.73	59	334	0.436 ug/l #	71
13) Acrolein	3.62	56	30	0.223 ug/l #	13
16) Acetone	3.80	43	10181	4.541 ug/l	100
17) Carbon Disulfide	4.03	76	1294	0.208 ug/l #	74
18) Methyl Acetate	4.32	43	4926	0.850 ug/l #	88
20) Methylene Chloride	4.53	84	49419	11.006 ug/l	92
31) Cyclohexane	7.65	56	11720	1.693 ug/l #	25
36) 1,1-Dichloropropene	7.65	75	39111	6.700 ug/l #	51
38) Carbon Tetrachloride	7.65	117	45780	7.985 ug/l #	16
43) Isopropyl Acetate	8.15	43	106601	9.916 ug/l	99
45) 1,2-Dichloropropane	9.26	63	2073	0.407 ug/l #	43
48) Methyl methacrylate	9.18	41	5750	1.180 ug/l #	13
49) 1,4-Dioxane	9.26	88	112	1.448 ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5402	0.957 ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	44670	6.042 ug/l #	68
56) Ethyl methacrylate	10.54	69	1813	0.267 ug/l #	1
57) 1,3-Dichloropropane	10.76	76	8011	0.989 ug/l #	43
59) 2-Hexanone	10.76	43	119601	28.585 ug/l #	53
74) N-amyl acetate	12.03	43	4494	0.631 ug/l #	48
76) 1,2,3-Trichloropropane	12.41	75	169305	35.024 ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	13458	0.927 ug/l	95
81) trans-1,4-Dichloro-2-buten	12.41	75	169305	113.865 ug/l #	7

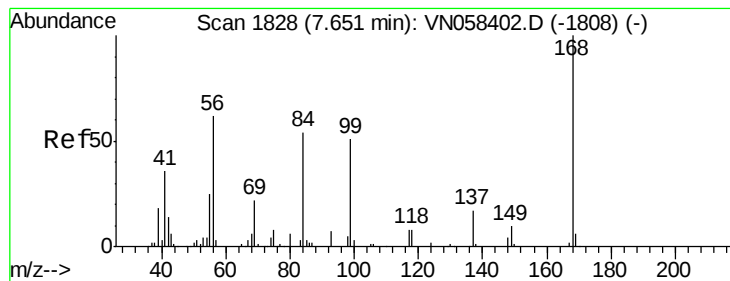
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 27 23:01:20 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: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

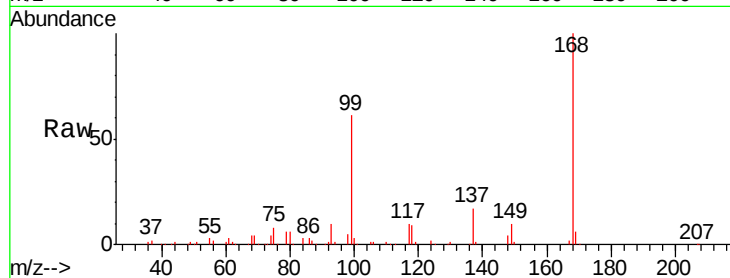
PB123419TB

Tgt Ion:168 Resp: 462735

Ion Ratio Lower Upper

168 100

99 60.9 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

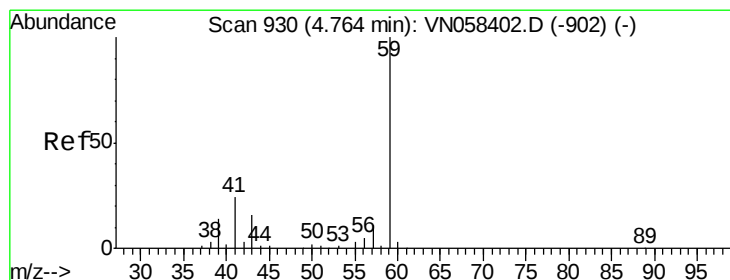
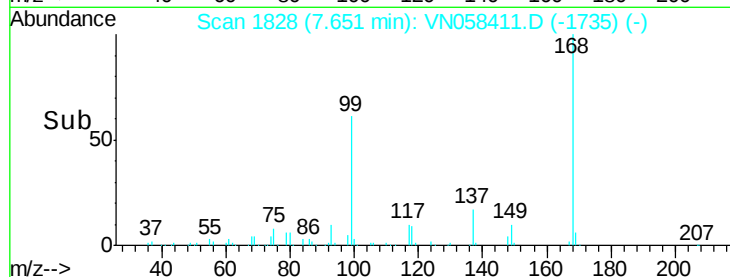
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.436 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.04 min

Lab File: VN058411.D

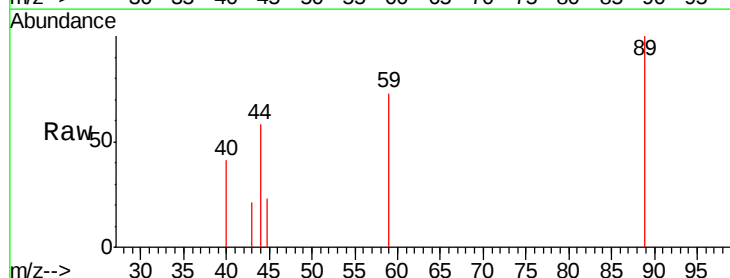
Acq: 27 Sep 2019 16:29

Tgt Ion: 59 Resp: 334

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.73

600

500

400

300

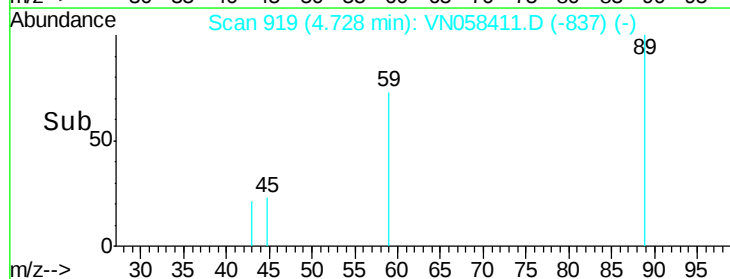
200

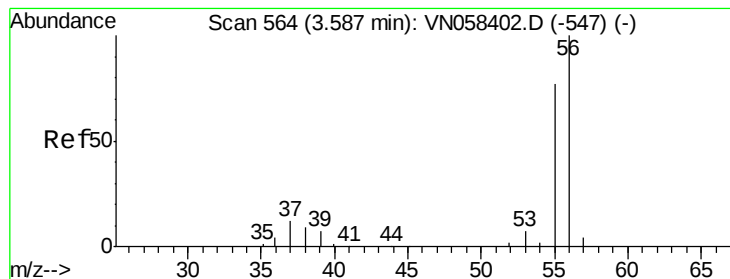
100

0

4.72 4.74

Time-->





#13

Acrolein

Concen: 0.223 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.03 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

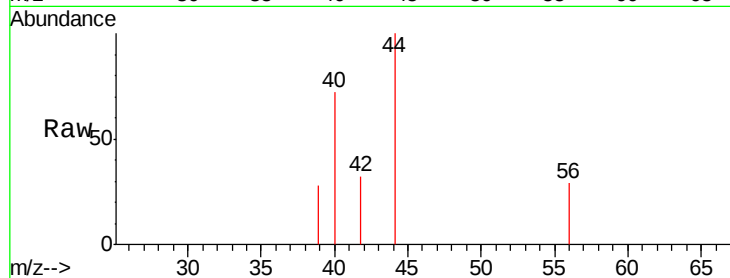
PB123419TB

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 0.0 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

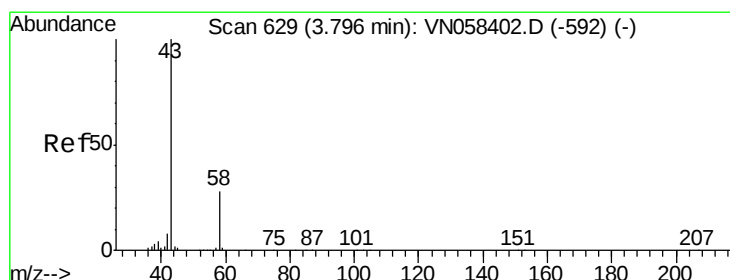
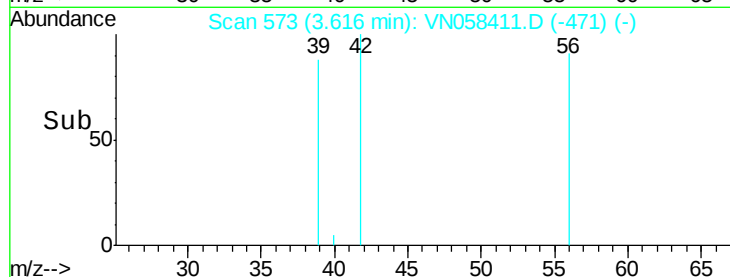
150

100

50

0

Time-->



#16

Acetone

Concen: 4.541 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058411.D

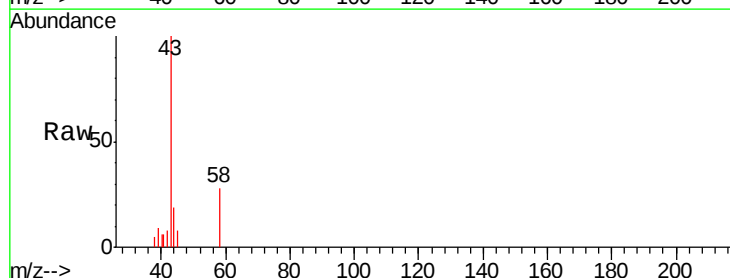
Acq: 27 Sep 2019 16:29

Tgt Ion: 43 Resp: 10181

Ion Ratio Lower Upper

43 100

58 27.8 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

4000

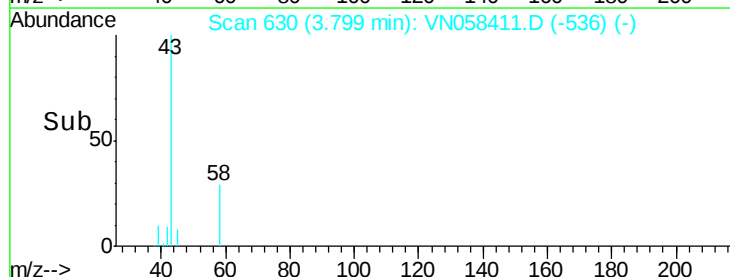
3000

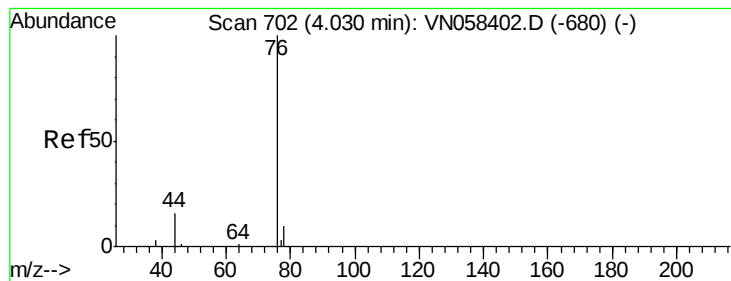
2000

1000

0

Time-->





#17

Carbon Disulfide

Concen: 0.208 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

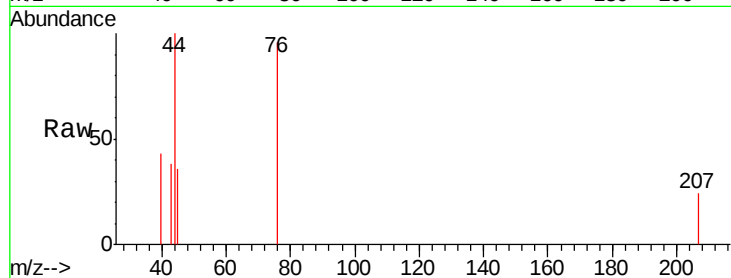
PB123419TB

Tgt Ion: 76 Resp: 1294

Ion Ratio Lower Upper

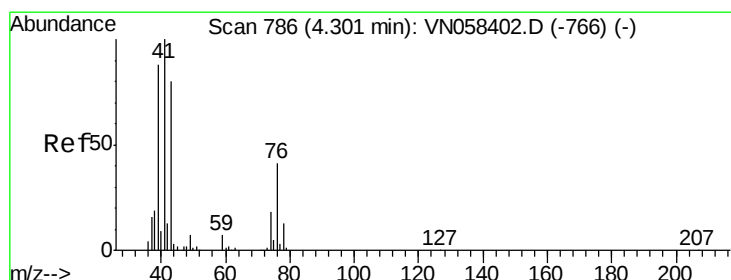
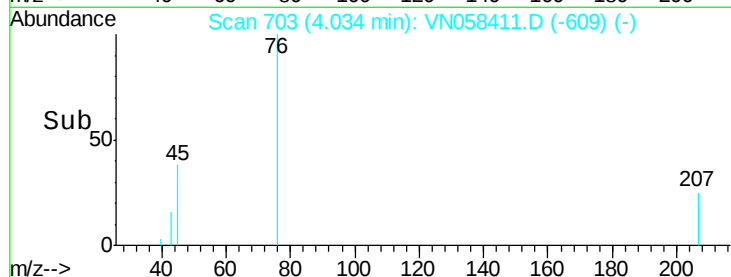
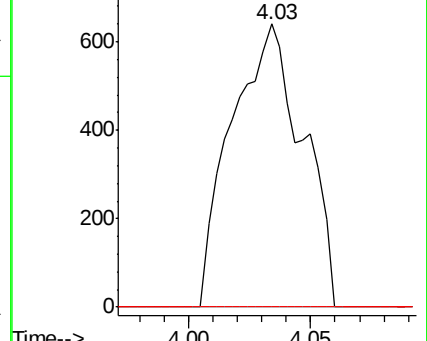
76 100

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



#18

Methyl Acetate

Concen: 0.850 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN058411.D

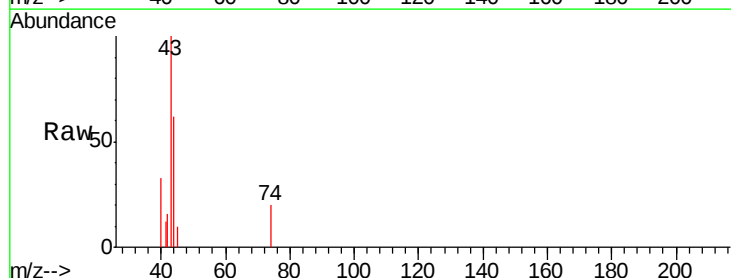
Acq: 27 Sep 2019 16:29

Tgt Ion: 43 Resp: 4926

Ion Ratio Lower Upper

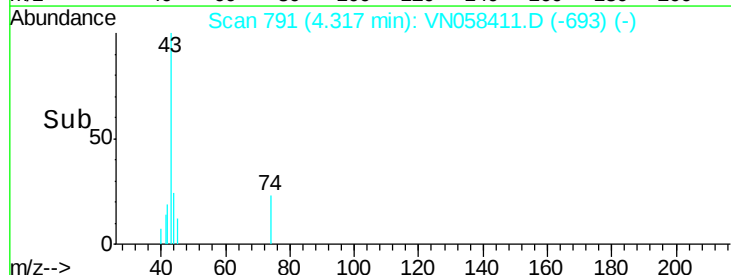
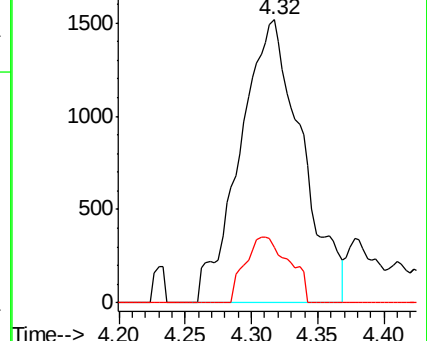
43 100

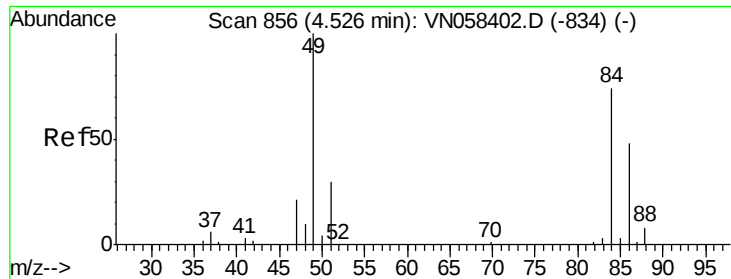
74 16.5 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

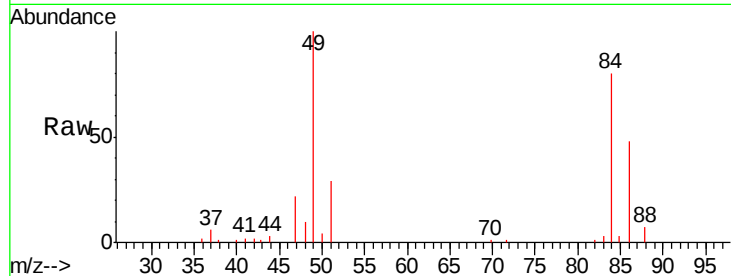




#20
Methylene Chloride
Concen: 11.006 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :
PB123419TB

Tgt Ion:	84	Resp:	49419
Ion	Ratio	Lower	Upper
84	100		
49	124.5	107.9	161.9
51	36.7	32.8	49.2
86	59.5	51.5	77.3

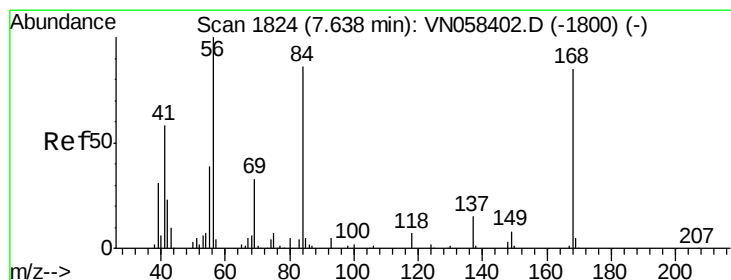
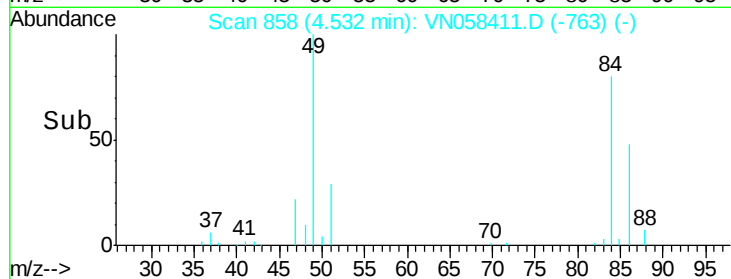
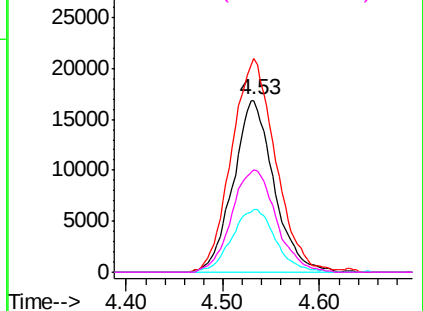


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

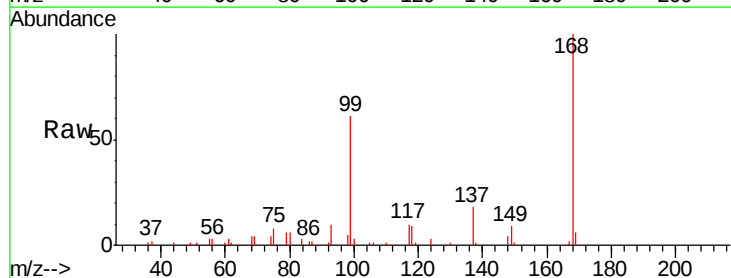
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31
Cyclohexane
Concen: 1.693 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

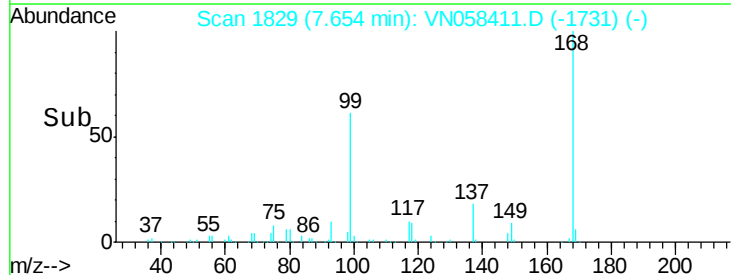
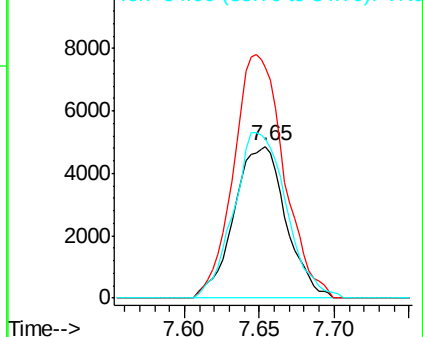
Tgt Ion:	56	Resp:	11720
Ion	Ratio	Lower	Upper
56	100		
69	151.7	26.2	39.4#
84	104.5	67.6	101.4#

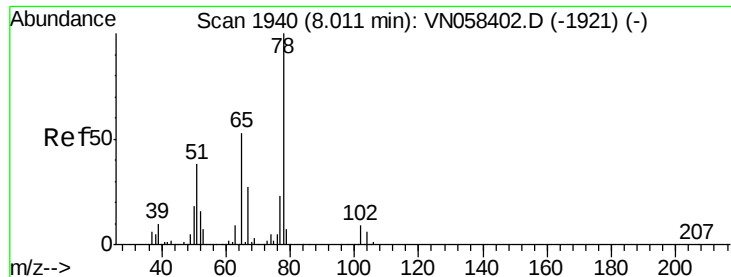


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.716 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

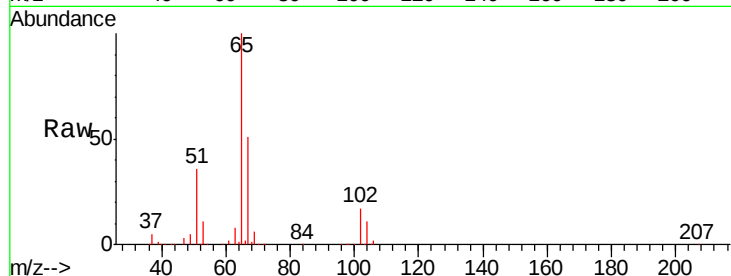
PB123419TB

Tgt Ion: 65 Resp: 330223

Ion Ratio Lower Upper

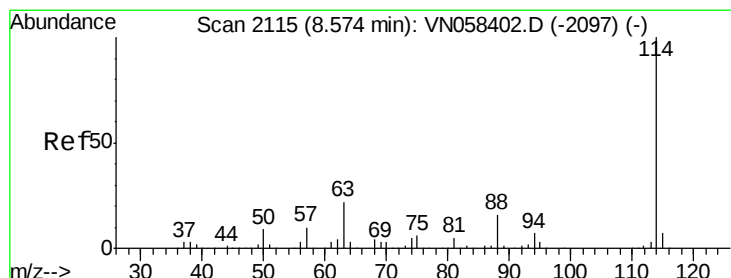
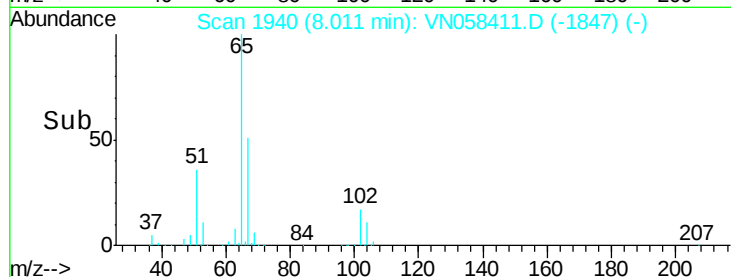
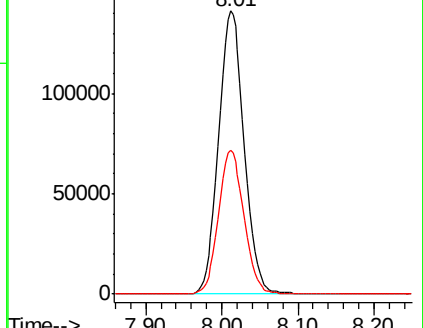
65 100

67 50.6 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058411.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058411.D (-1847) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

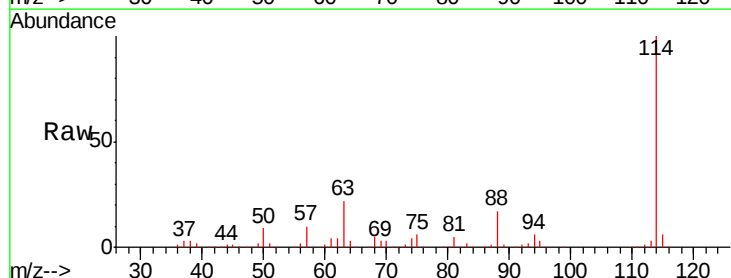
Tgt Ion: 114 Resp: 755357

Ion Ratio Lower Upper

114 100

63 21.7 0.0 45.0

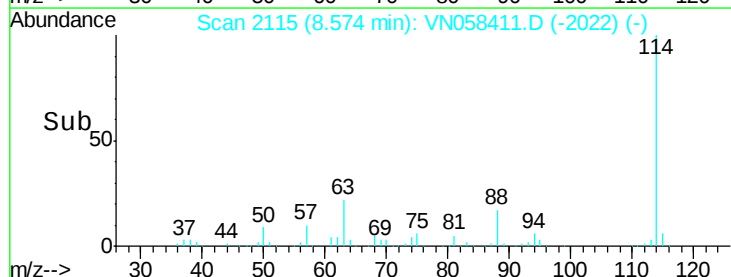
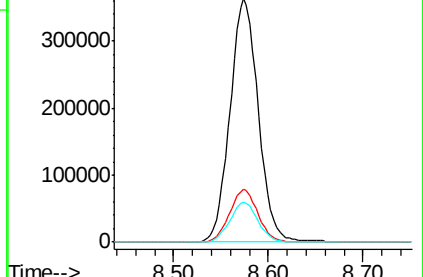
88 16.5 0.0 32.2

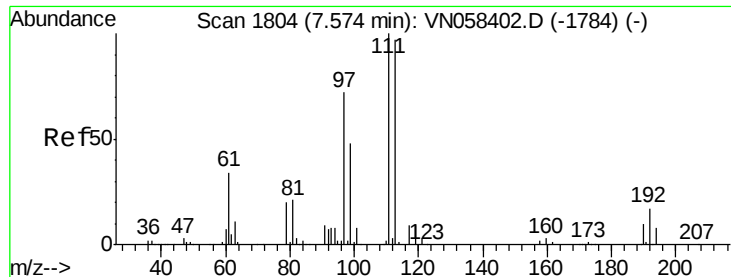


Abundance Ion 113.90 (113.60 to 114.60): VN058411.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058411.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058411.D (-2022) (-)

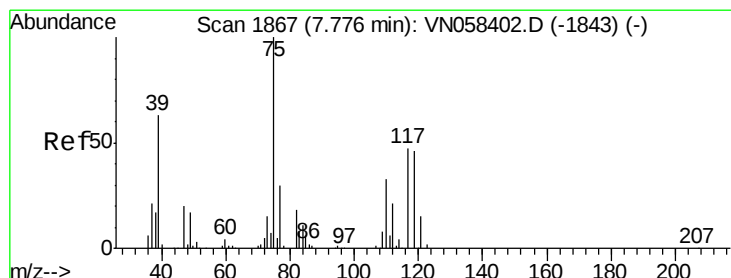
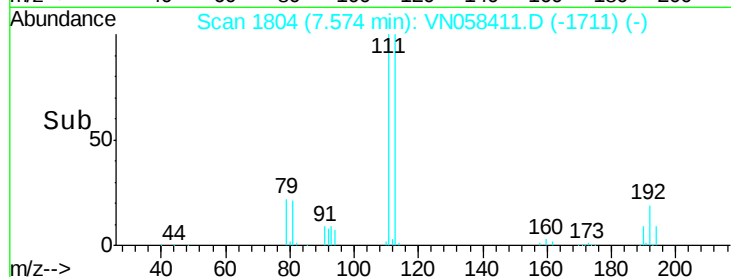
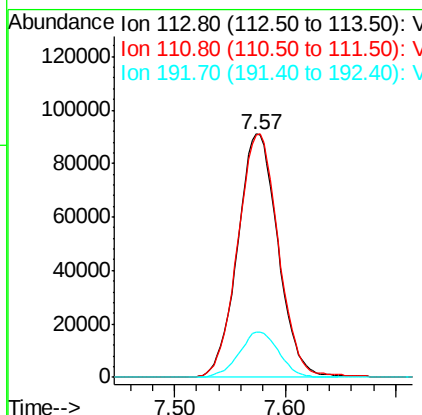
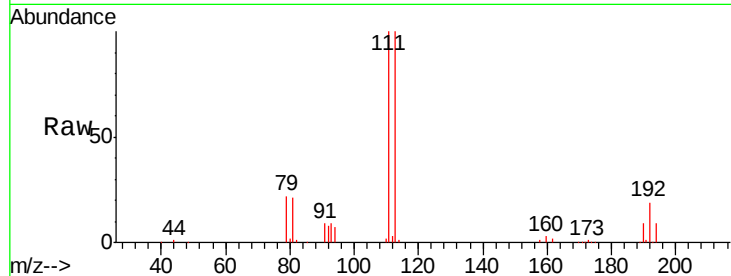




#35
 Dibromofluoromethane
 Concen: 50.052 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058411.D
 Acq: 27 Sep 2019 16:29

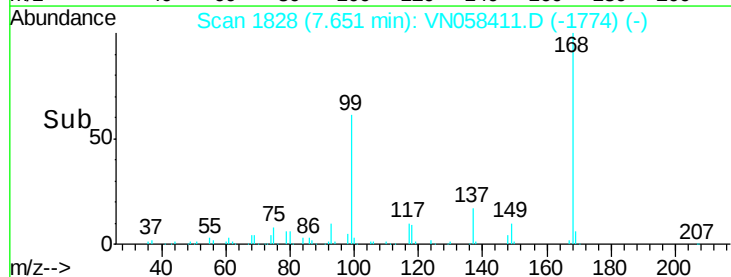
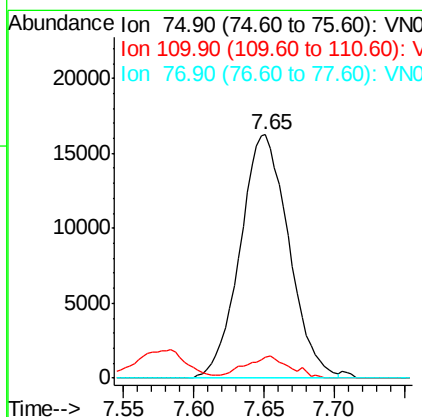
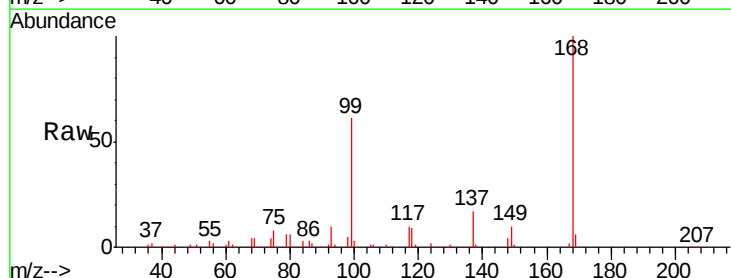
Instrument :
 MSVOA_N
 ClientSampleId :
 PB123419TB

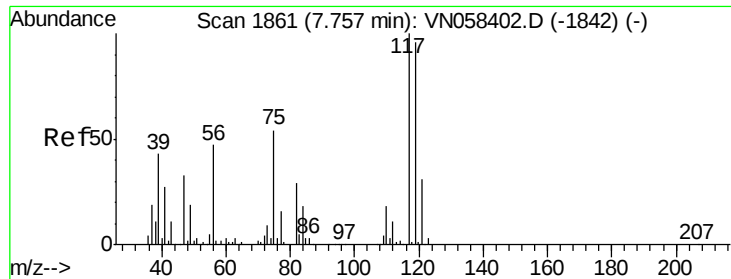
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	83.4	125.2
192	18.4	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 6.700 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058411.D
 Acq: 27 Sep 2019 16:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.4	49.2#
77	0.0	24.3	36.5#

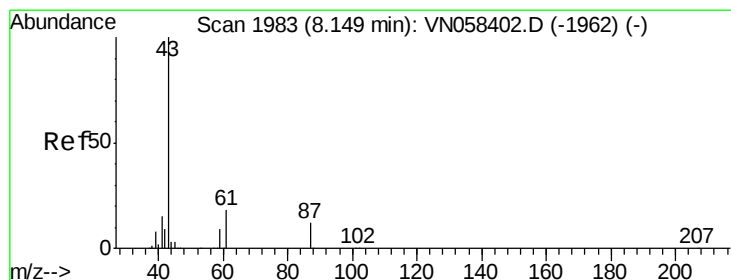
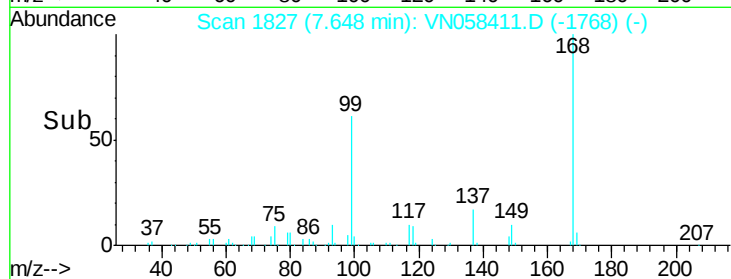
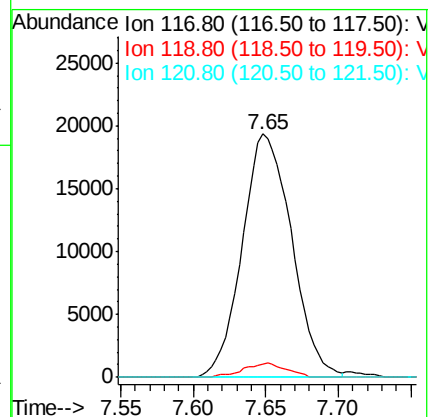
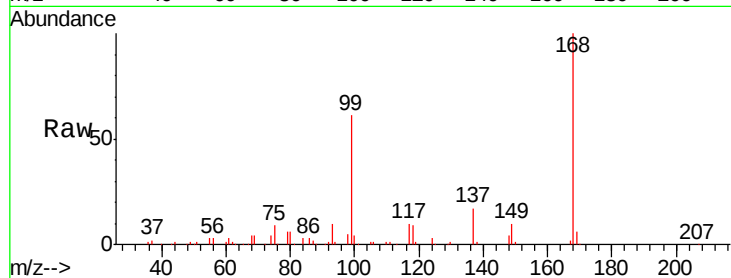




#38
Carbon Tetrachloride
Concen: 7.985 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

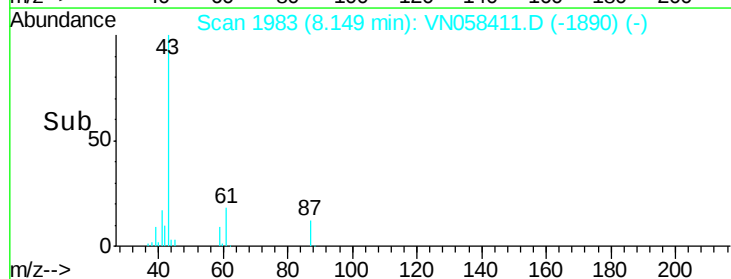
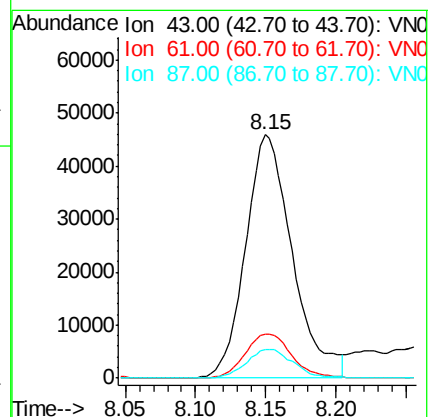
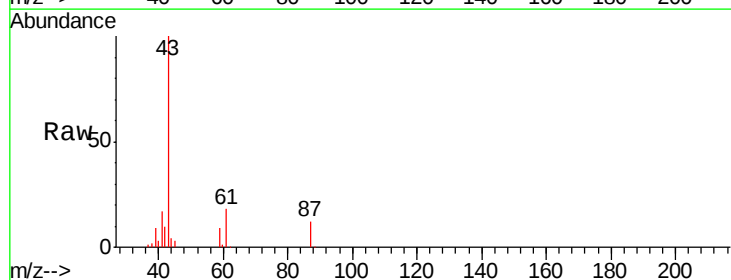
Instrument :
MSVOA_N
ClientSampleId :
PB123419TB

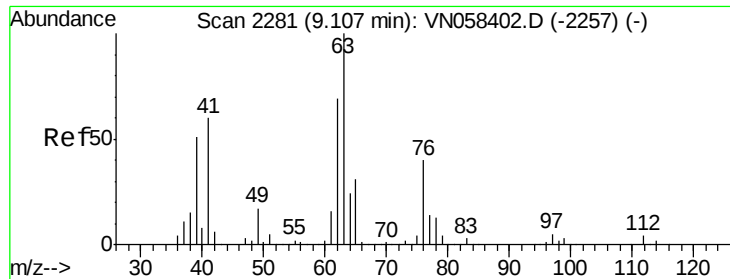
Tgt Ion: 117 Resp: 45780
Ion Ratio Lower Upper
117 100
119 5.7 76.6 115.0#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 9.916 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

Tgt Ion: 43 Resp: 106601
Ion Ratio Lower Upper
43 100
61 18.1 14.8 22.2
87 11.8 9.7 14.5





#45

1,2-Dichloropropane

Concen: 0.407 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

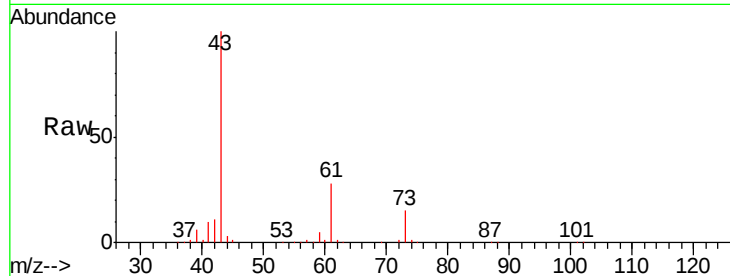
PB123419TB

Tgt Ion: 63 Resp: 2073

Ion Ratio Lower Upper

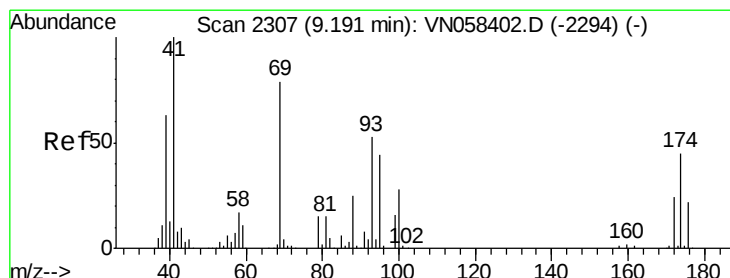
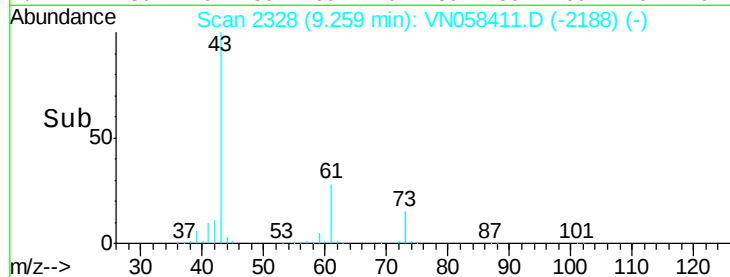
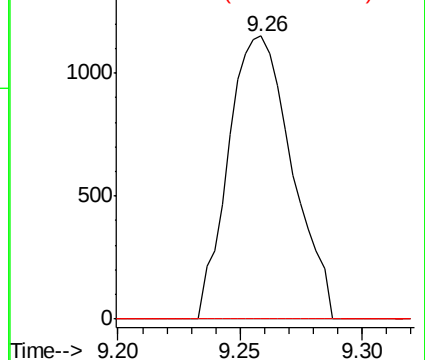
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.180 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

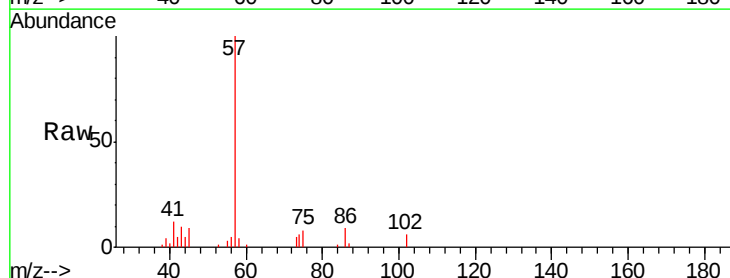
Tgt Ion: 41 Resp: 5750

Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

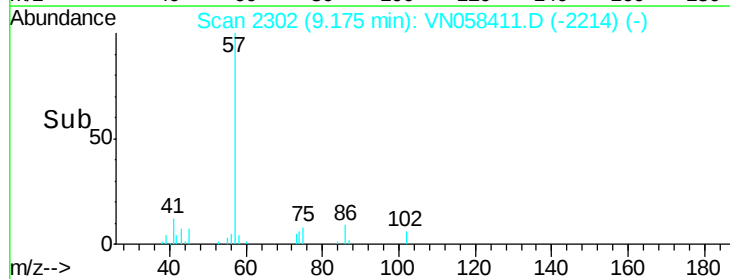
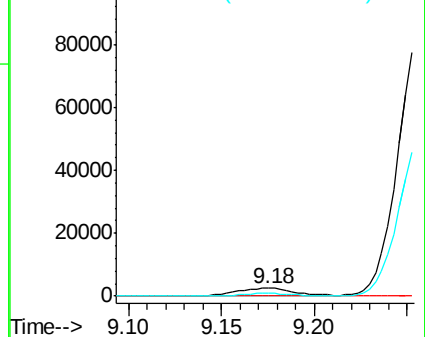
39 0.0 52.9 79.3#

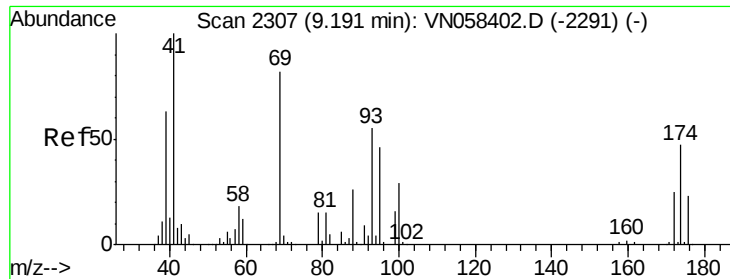


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 1.448 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.07 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB123419TB

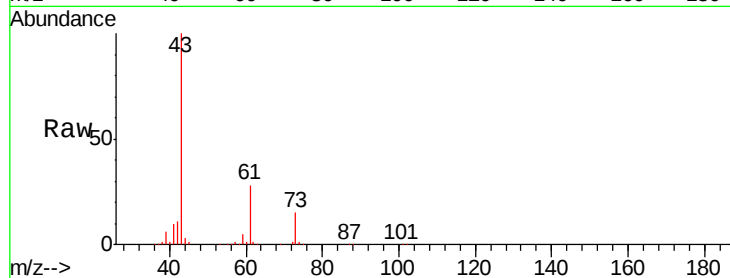
Tgt Ion: 88 Resp: 112

Ion Ratio Lower Upper

88 100

43 1580816.1 31.1 46.7#

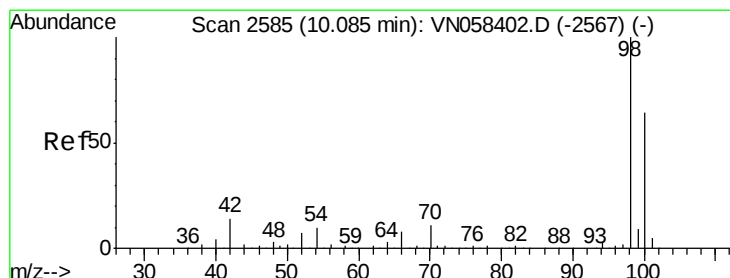
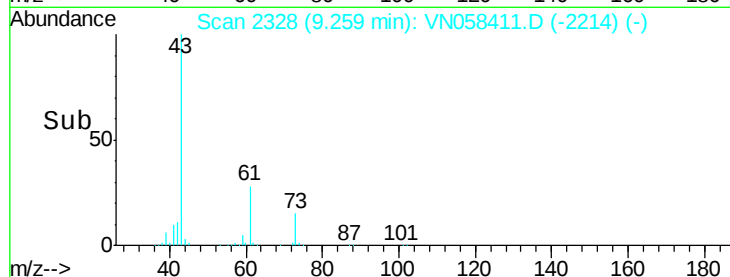
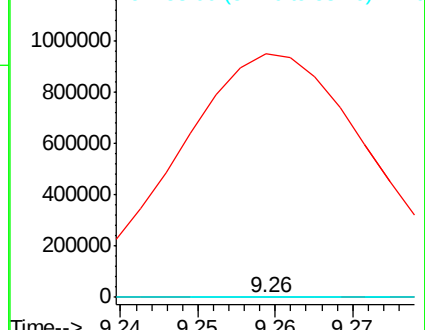
58 6695.5 58.1 87.1#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.821 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058411.D

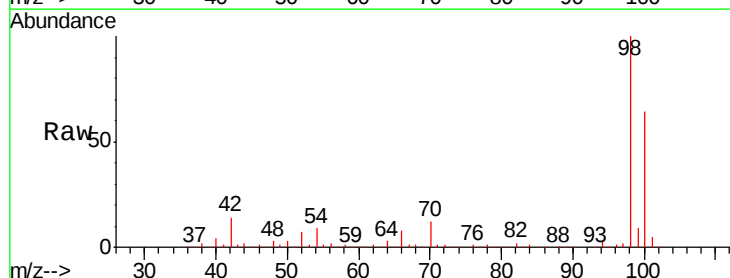
Acq: 27 Sep 2019 16:29

Tgt Ion: 98 Resp: 943529

Ion Ratio Lower Upper

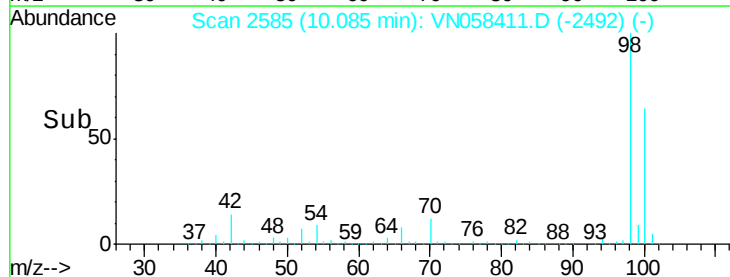
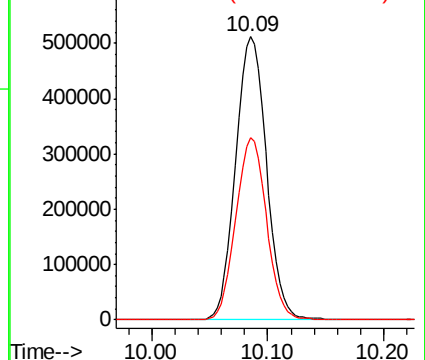
98 100

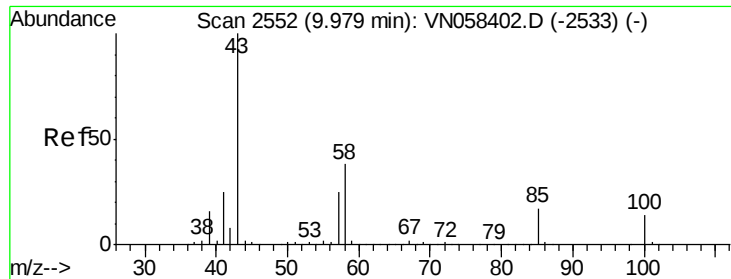
100 64.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.957 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

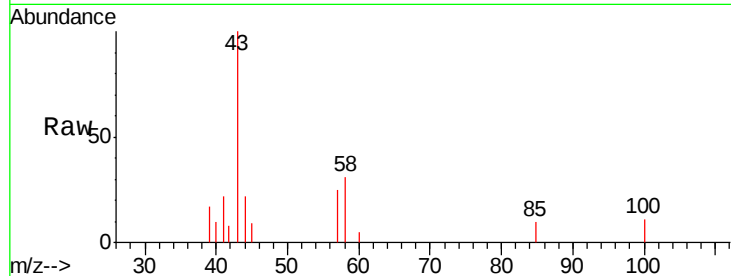
PB123419TB

Tgt Ion: 43 Resp: 5402

Ion Ratio Lower Upper

43 100

58 45.6 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

4000

2000

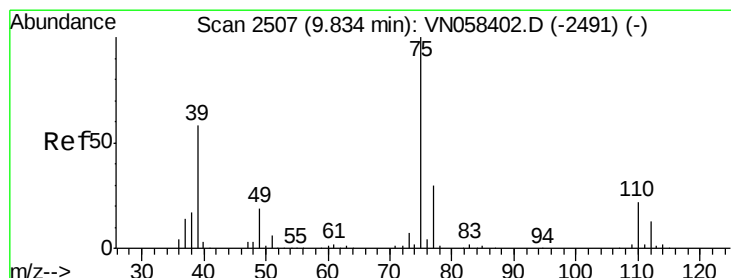
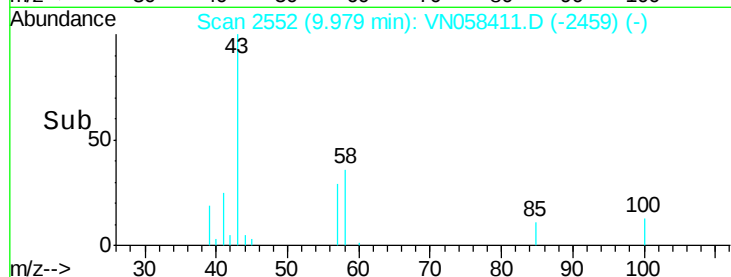
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.042 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

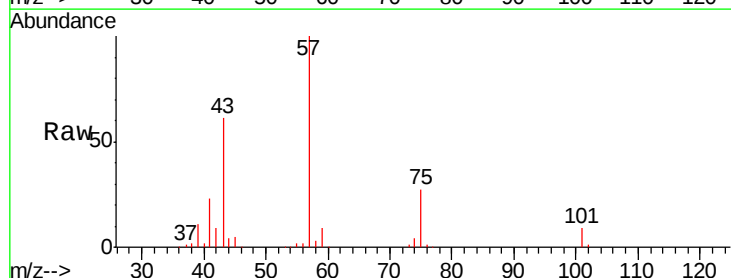
Tgt Ion: 75 Resp: 44670

Ion Ratio Lower Upper

75 100

77 1.0 24.2 36.4#

39 42.3 46.4 69.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

30000

20000

10000

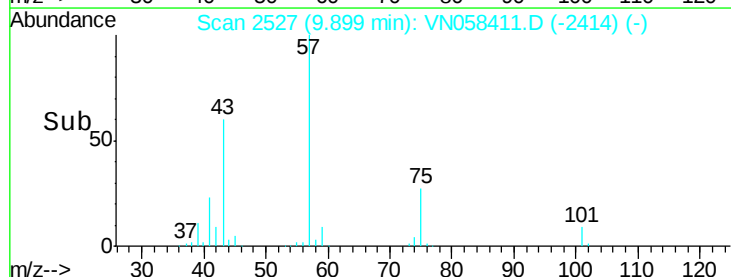
0

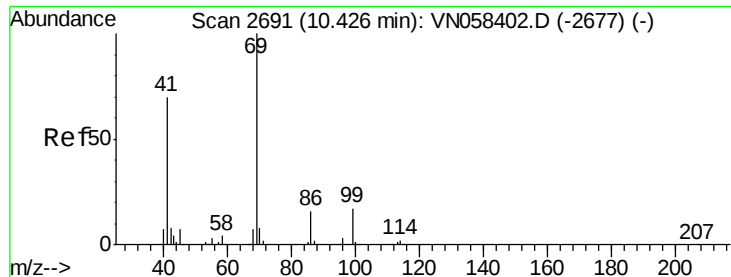
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.267 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB123419TB

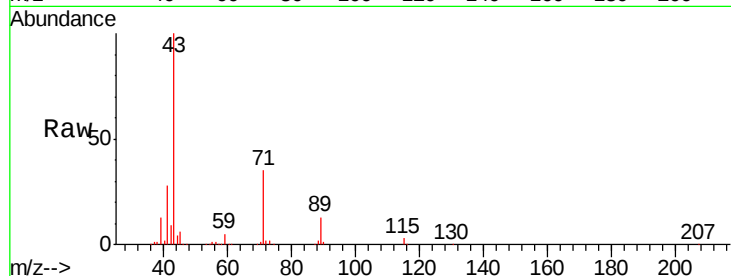
Tgt Ion: 69 Resp: 1813

Ion Ratio Lower Upper

69 100

41 6465.9 56.3 84.5#

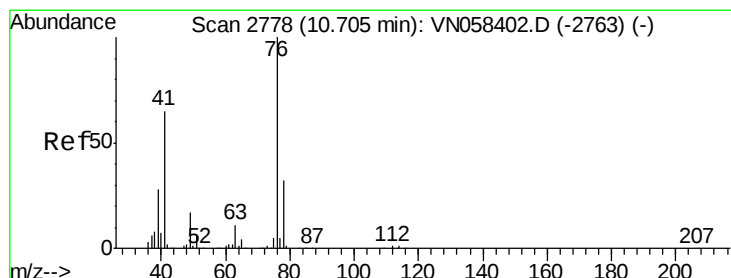
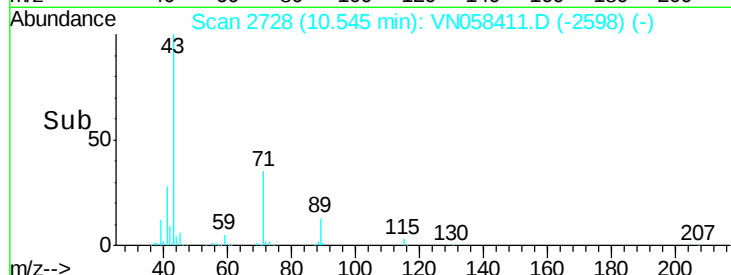
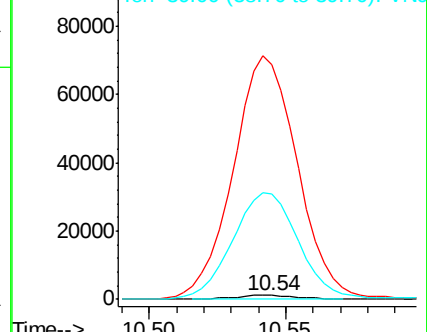
39 2913.3 35.8 53.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.989 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058411.D

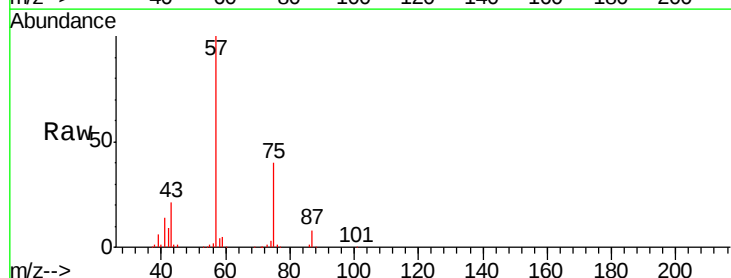
Acq: 27 Sep 2019 16:29

Tgt Ion: 76 Resp: 8011

Ion Ratio Lower Upper

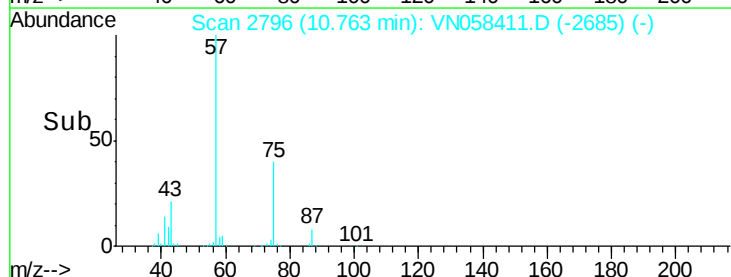
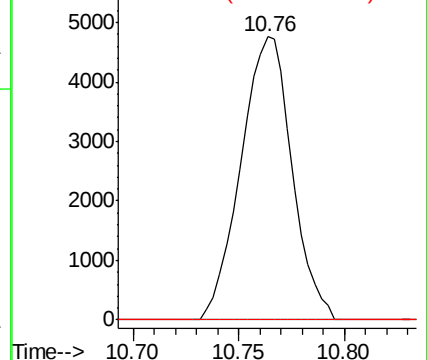
76 100

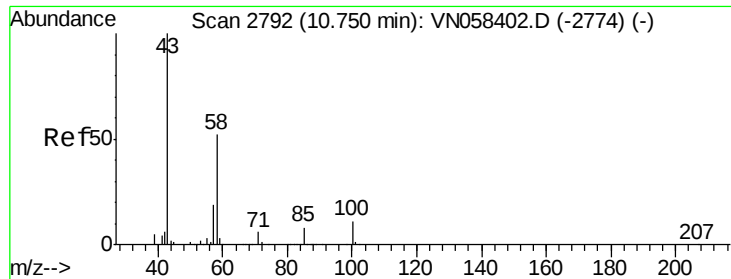
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

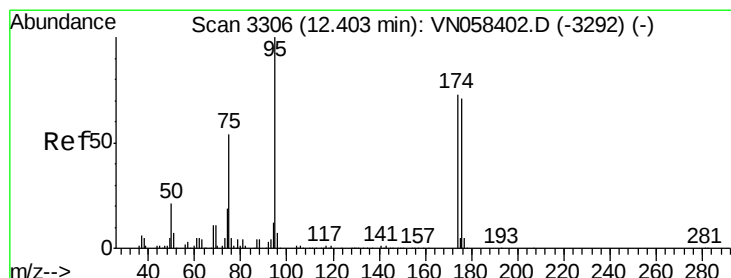
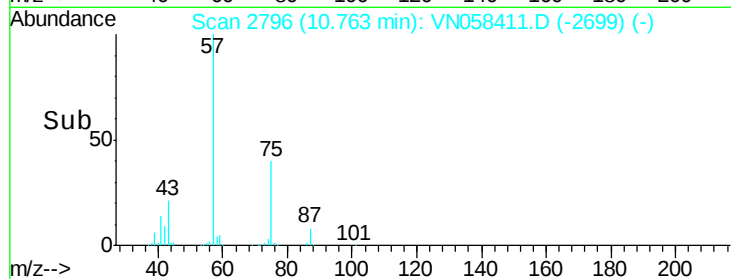
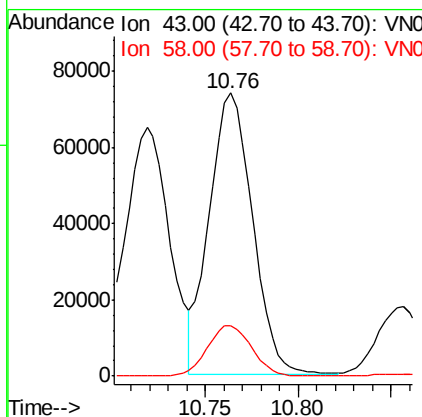
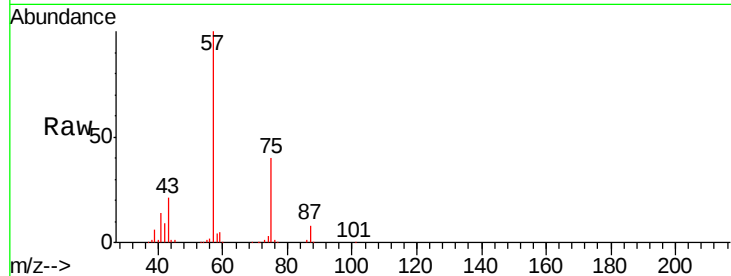




#59
2-Hexanone
Concen: 28.585 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

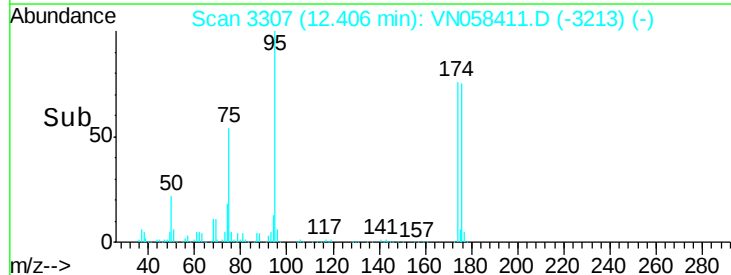
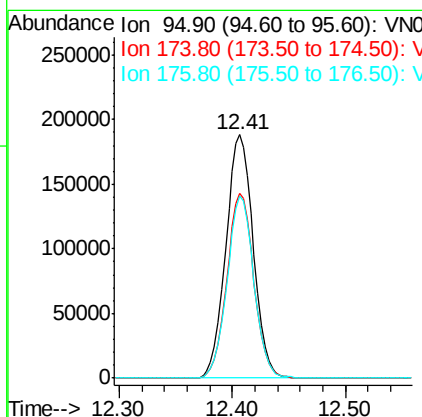
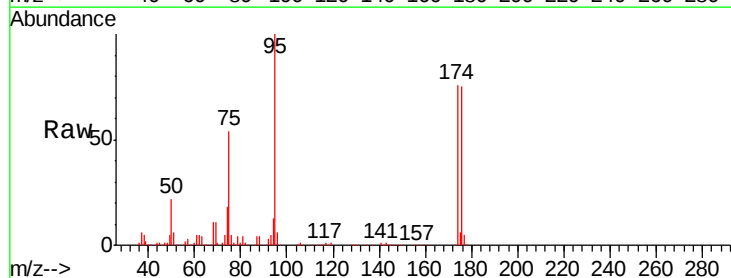
Instrument :
MSVOA_N
ClientSampled :
PB123419TB

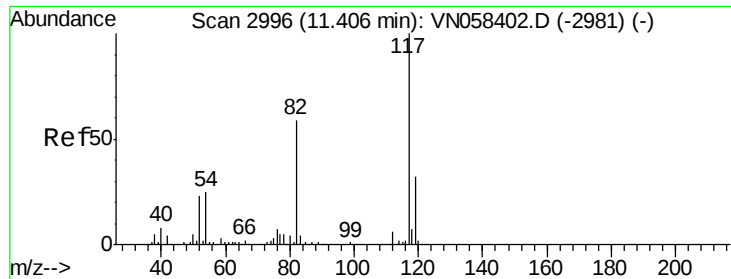
Tgt Ion: 43 Resp: 119601
Ion Ratio Lower Upper
43 100
58 18.6 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 47.684 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

Tgt Ion: 95 Resp: 315480
Ion Ratio Lower Upper
95 100
174 75.0 0.0 150.6
176 73.5 0.0 146.2

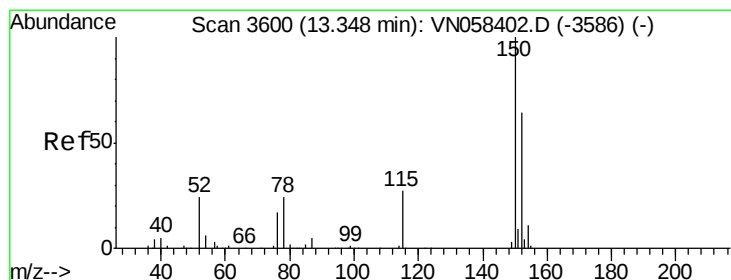
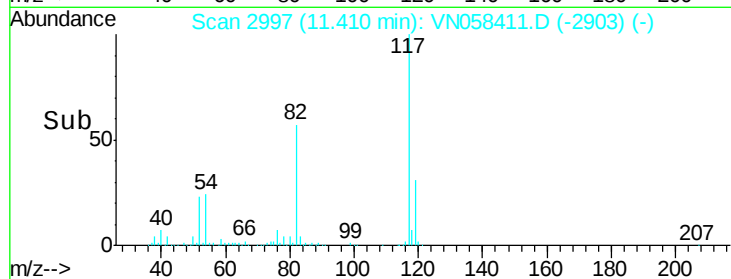
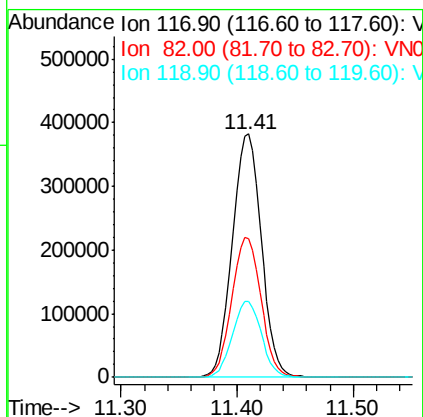
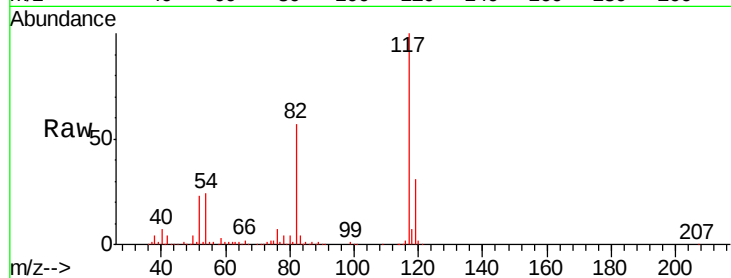




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

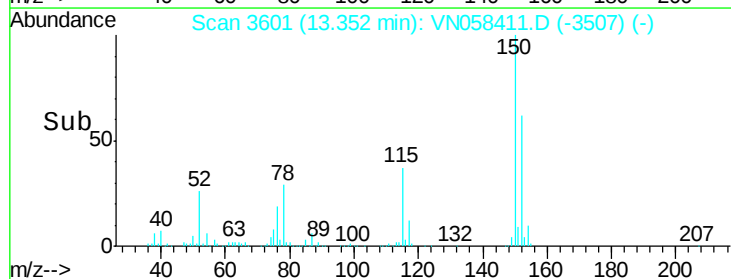
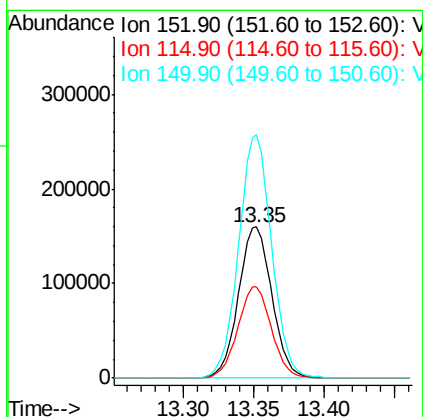
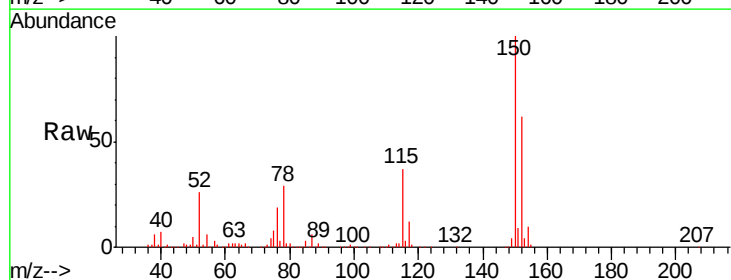
Instrument :
MSVOA_N
ClientSampleId :
PB123419TB

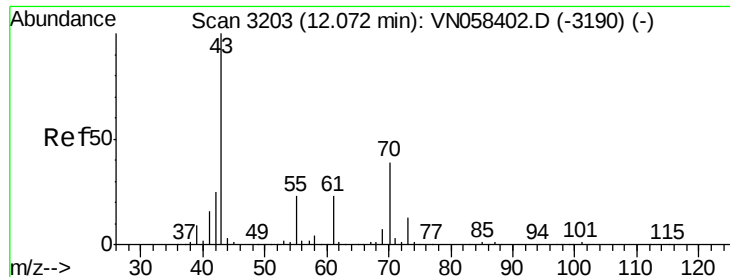
Tgt Ion:117 Resp: 661427
Ion Ratio Lower Upper
117 100
82 57.0 47.4 71.0
119 31.0 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058411.D
Acq: 27 Sep 2019 16:29

Tgt Ion:152 Resp: 266296
Ion Ratio Lower Upper
152 100
115 60.5 30.0 90.0
150 159.4 0.0 348.2





#74

N-amyI acetate

Concen: 0.631 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

PB123419TB

Tgt Ion: 43 Resp: 4494

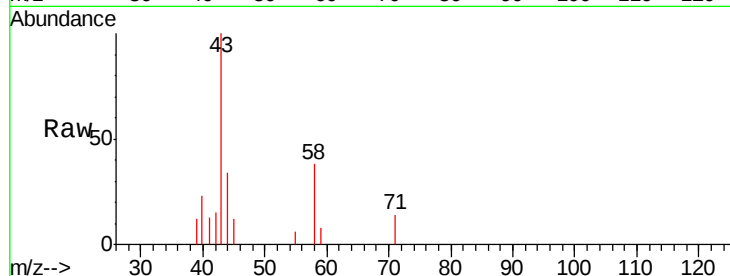
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.2#

55 6.2 18.2 27.4#

61 0.0 18.3 27.5#

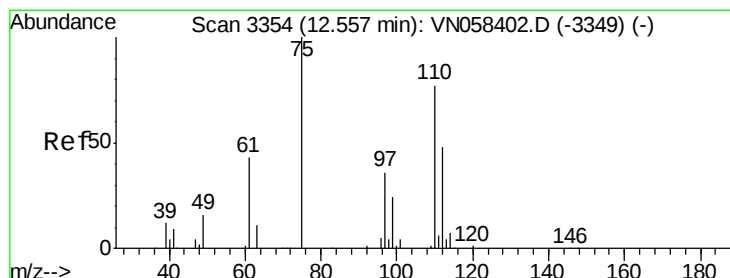
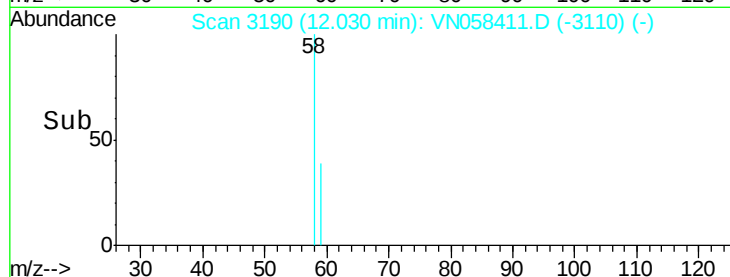
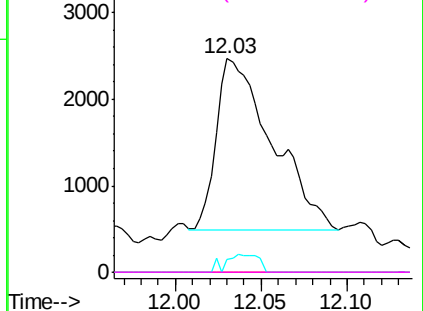


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 35.024 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058411.D

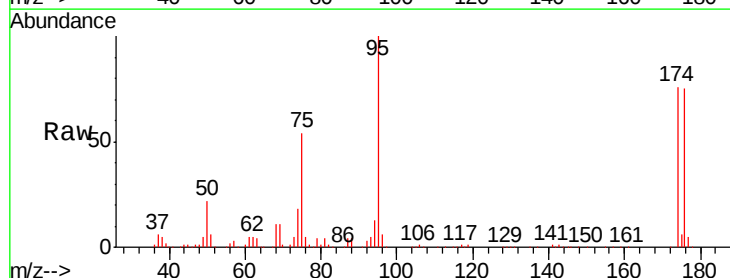
Acq: 27 Sep 2019 16:29

Tgt Ion: 75 Resp: 169305

Ion Ratio Lower Upper

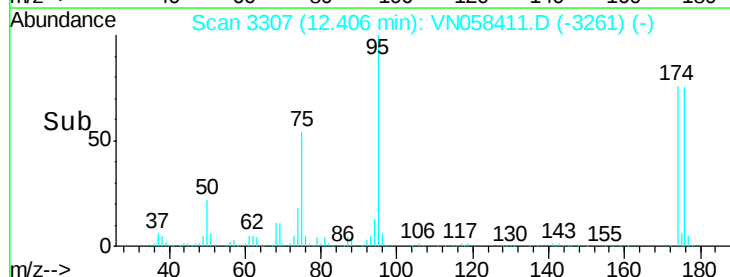
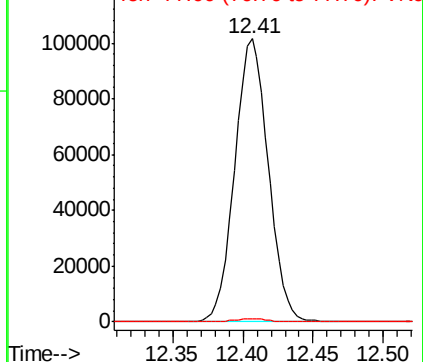
75 100

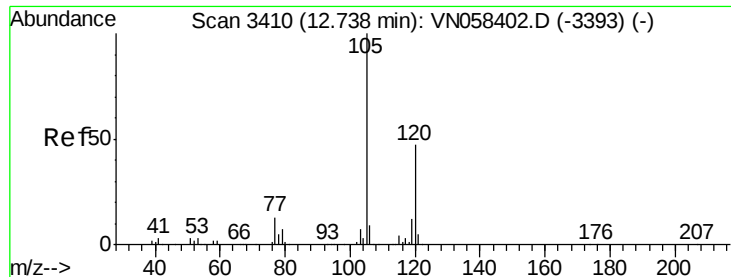
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.927 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

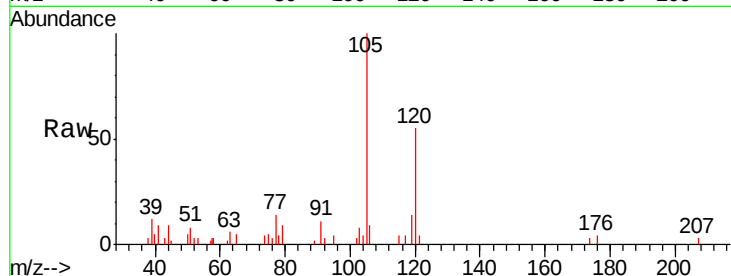
PB123419TB

Tgt Ion: 105 Resp: 13458

Ion Ratio Lower Upper

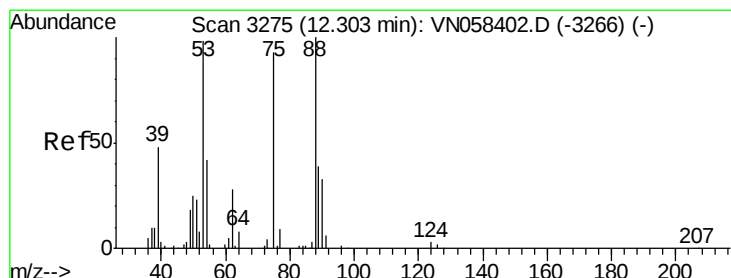
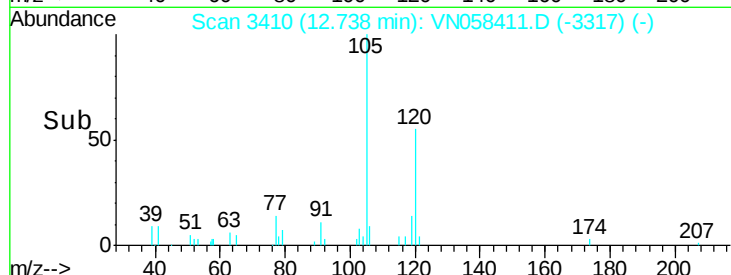
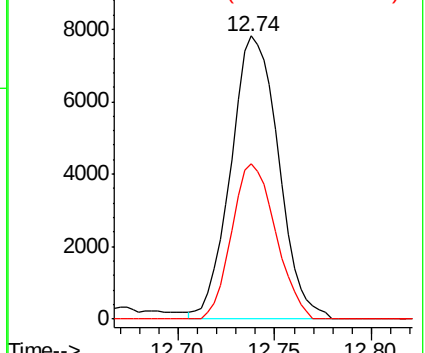
105 100

120 50.2 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 113.865 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058411.D

Acq: 27 Sep 2019 16:29

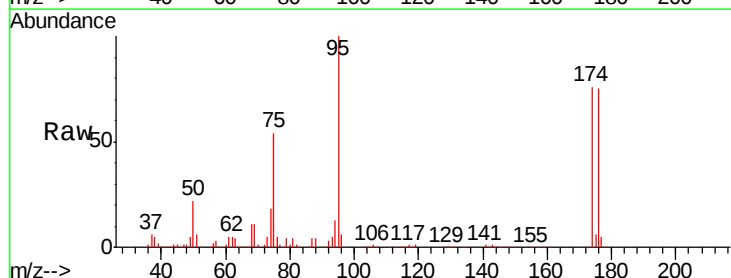
Tgt Ion: 75 Resp: 169305

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

