

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073119\
 Data File : VN057004.D
 Acq On : 31 Jul 2019 11:11
 Operator : JC/SP
 Sample : PB121844ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

Quant Time: Aug 01 01:18:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	589067	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	855215	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	726064	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	220397	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	292173	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
35) Dibromofluoromethane	7.58	113	261522	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
50) Toluene-d8	10.08	98	1017554	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.40	95	282094	41.50	ug/l	0.00
Spiked Amount			Recovery	=	83.00%	

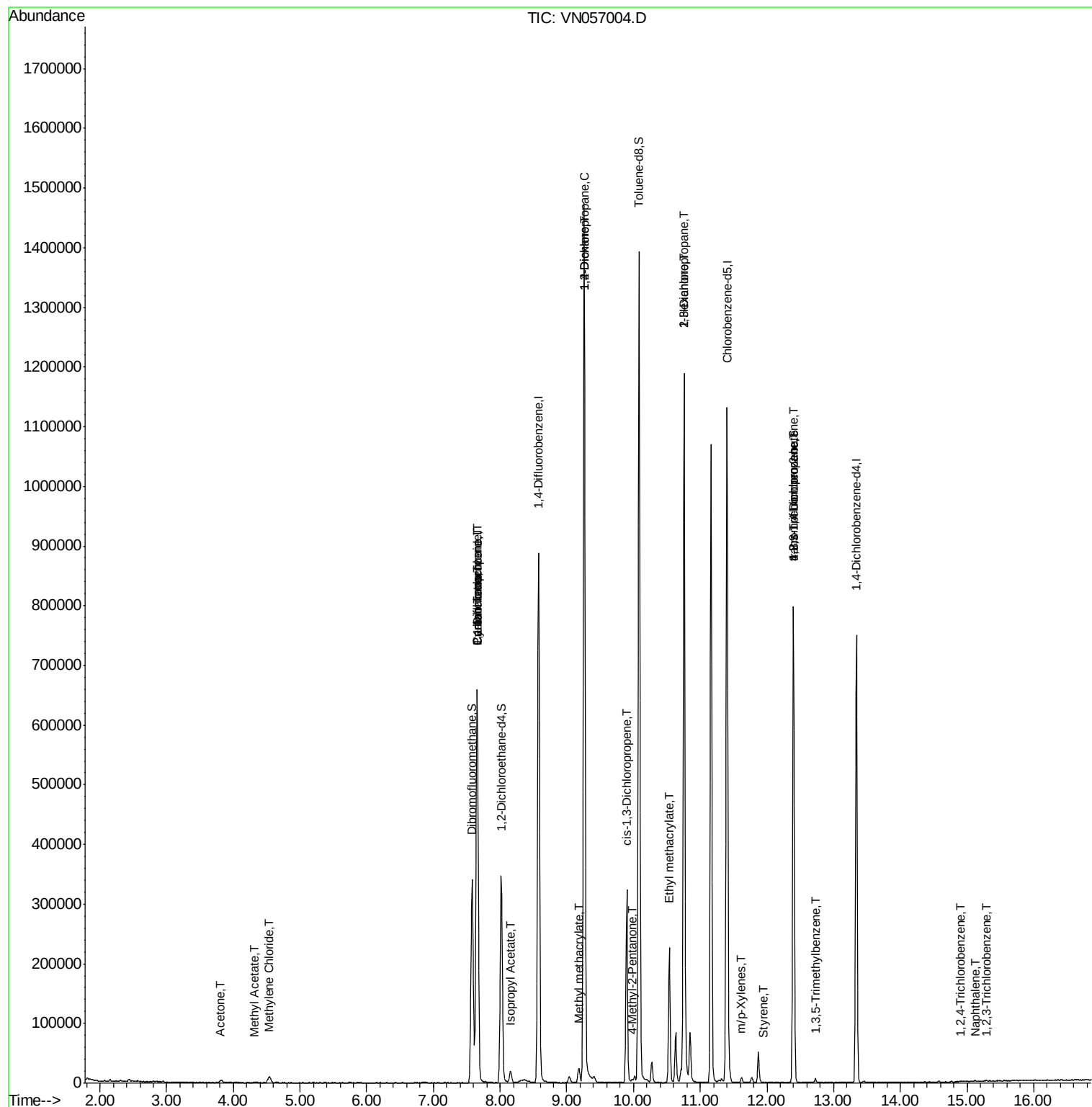
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	7758	3.551	ug/l	97
18) Methyl Acetate	4.32	43	2271	0.326	ug/l #	72
20) Methylene Chloride	4.54	84	8412	1.337	ug/l	94
31) Cyclohexane	7.65	56	8191	0.827	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	36285	4.822	ug/l #	48
38) Carbon Tetrachloride	7.65	117	48642	6.833	ug/l #	17
43) Isopropyl Acetate	8.16	43	22037	2.212	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1731	0.279	ug/l #	44
48) Methyl methacrylate	9.17	41	8564	1.781	ug/l #	12
49) 1,4-Dioxane	9.26	88	107	1.080	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	3910	0.661	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	61435	6.927	ug/l #	64
56) Ethyl methacrylate	10.54	69	1156	1.893	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	12793	1.381	ug/l #	42
59) 2-Hexanone	10.76	43	166990	38.769	ug/l #	50
68) m/p-Xylenes	11.62	106	2530	0.268	ug/l	90
70) Styrene	11.96	104	251	1.882	ug/l #	26
76) 1,2,3-Trichloropropane	12.40	75	129435	28.918	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3993	0.255	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	129435	92.913	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	603	2.860	ug/l #	69
95) Naphthalene	15.13	128	1384	3.725	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.29	180	728	2.230	ug/l	93

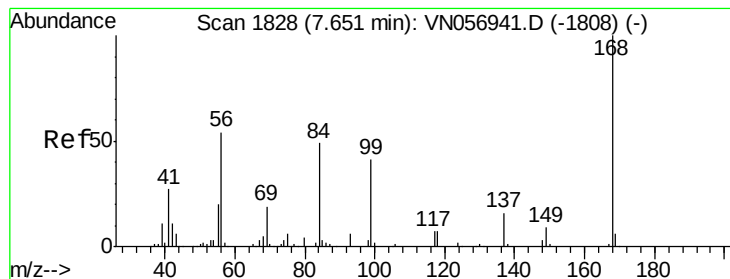
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 01 01:18:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

Instrument :

MSVOA_N

ClientSampleId :

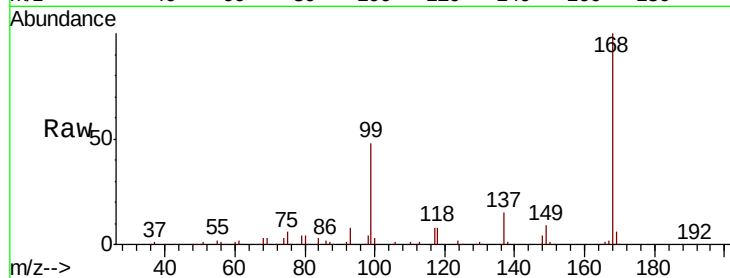
PB121844ZHE#01

Tot Ion:168 Resp: 589067

Ion Ratio Lower Upper

168 100

99 48.3 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

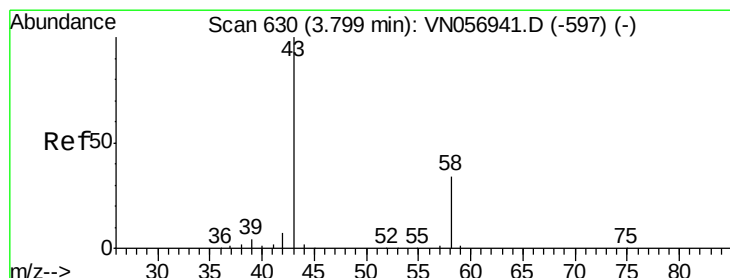
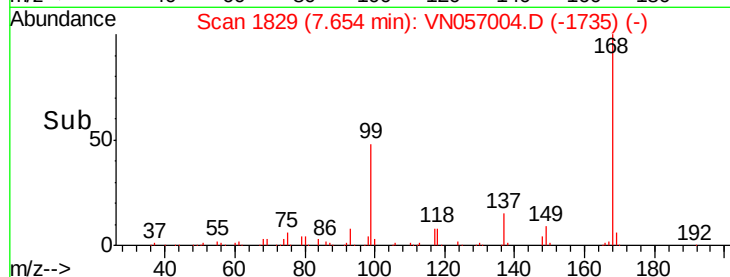
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 3.551 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057004.D

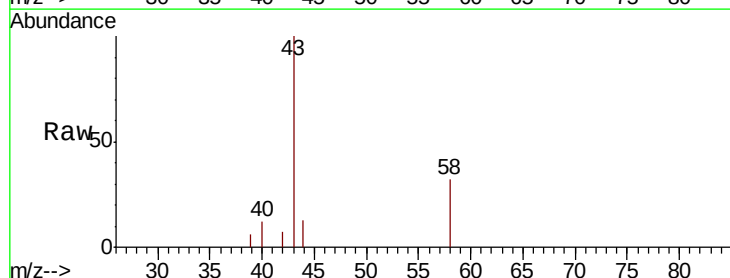
Acq: 31 Jul 2019 11:11

Tgt Ion: 43 Resp: 7758

Ion Ratio Lower Upper

43 100

58 32.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.81

3000

2500

2000

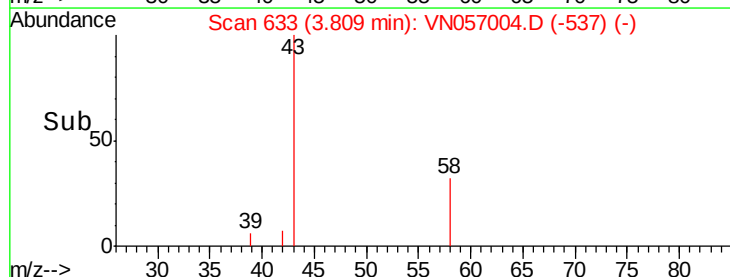
1500

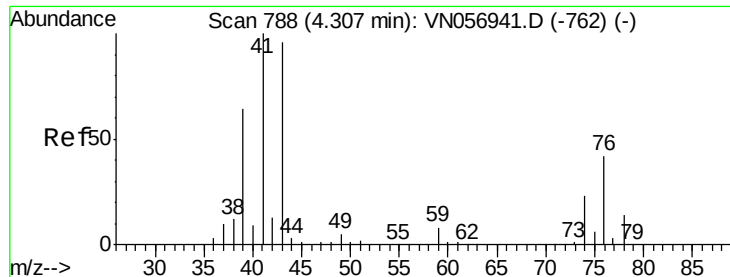
1000

500

0

Time-->

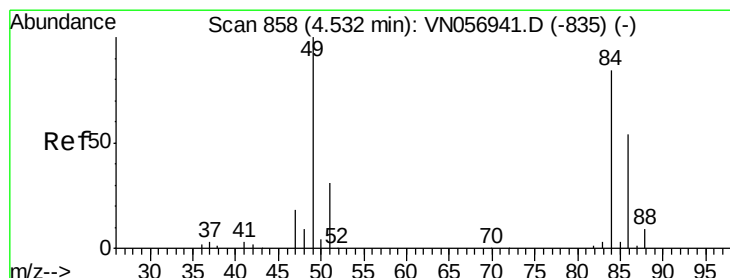
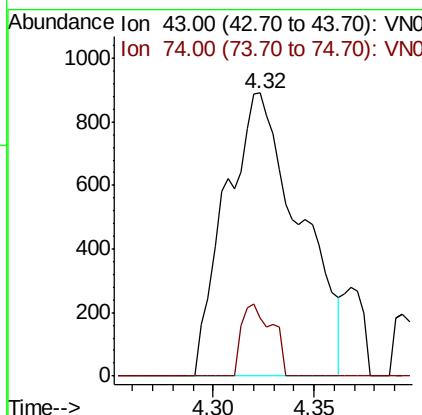
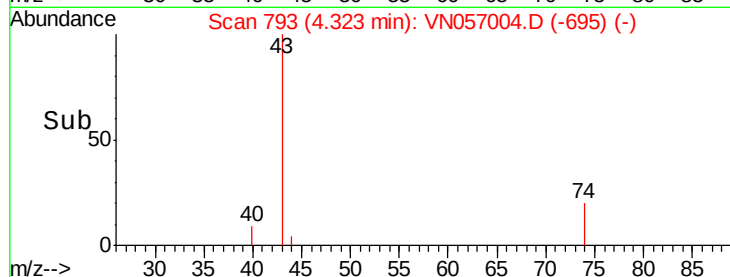
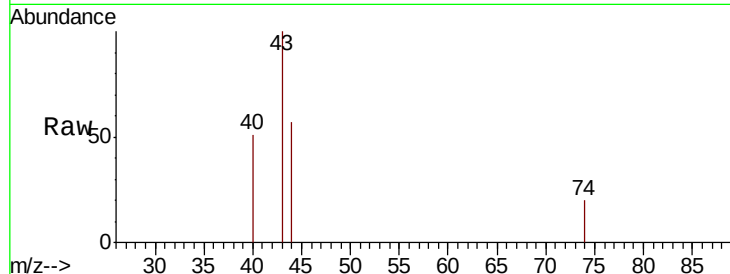




#18
Methvl Acetate
Concen: 0.326 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.02 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

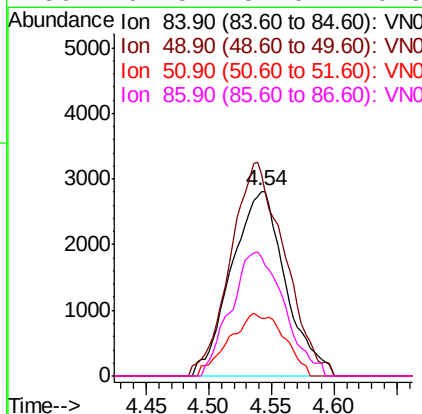
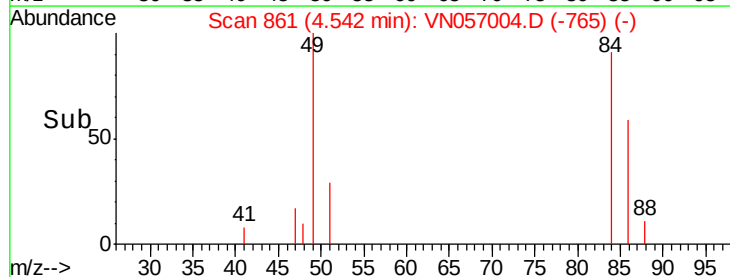
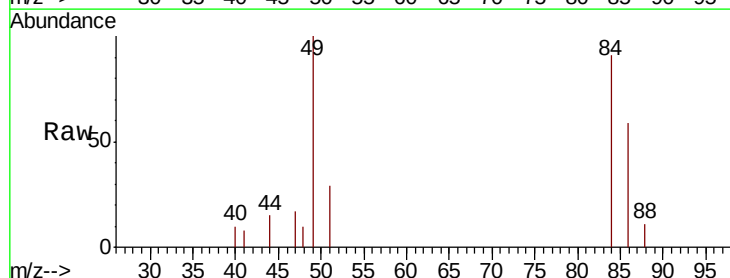
Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#01

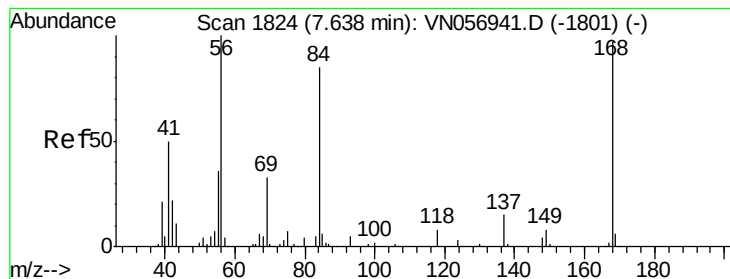
Tot Ion: 43 Resp: 2271
Ion Ratio Lower Upper
43 100
74 10.6 19.7 29.5#



#20
Methylene Chloride
Concen: 1.337 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

Tgt Ion: 84 Resp: 8412
Ion Ratio Lower Upper
84 100
49 109.7 95.2 142.8
51 31.3 29.7 44.5
86 64.5 51.0 76.6





#31

Cyclohexane

Concen: 0.827 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#01

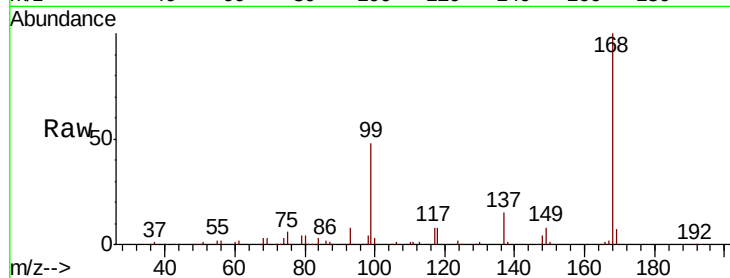
Tot Ion: 56 Resp: 8191

Ion Ratio Lower Upper

56 100

69 185.5 26.2 39.2#

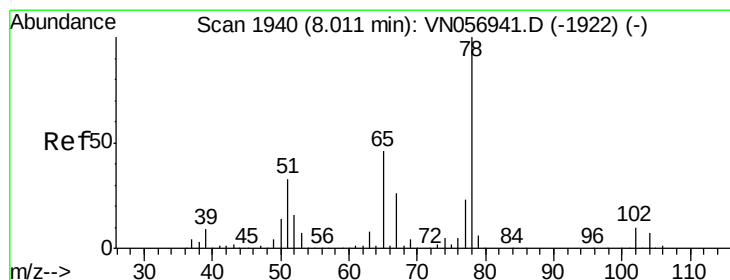
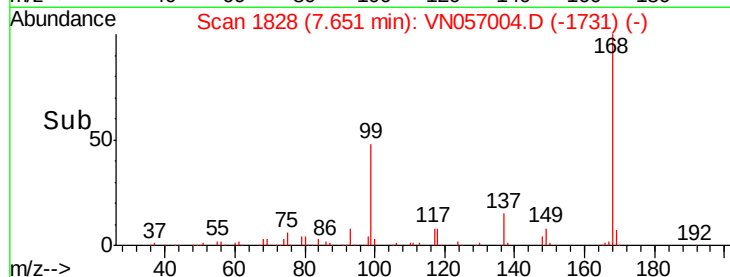
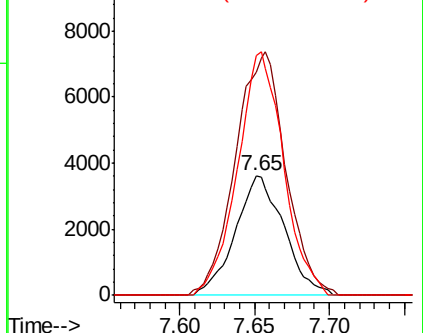
84 200.2 68.2 102.2#



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: 48.454 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VN057004.D

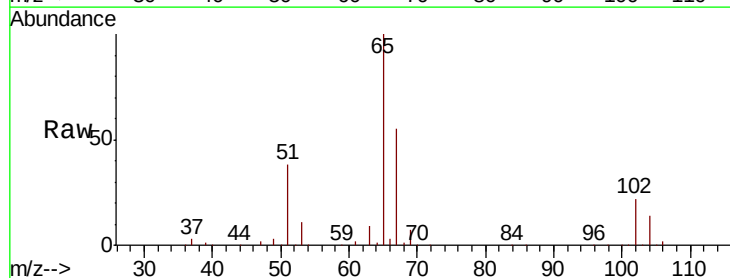
Acq: 31 Jul 2019 11:11

Tgt Ion: 65 Resp: 292173

Ion Ratio Lower Upper

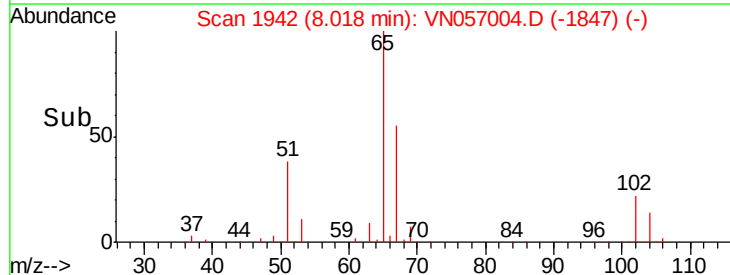
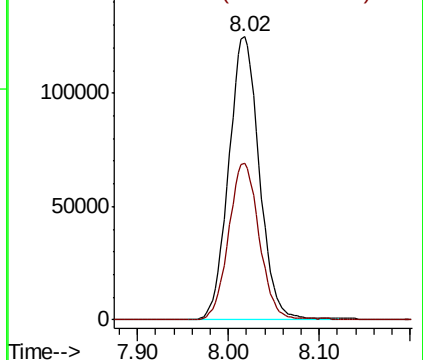
65 100

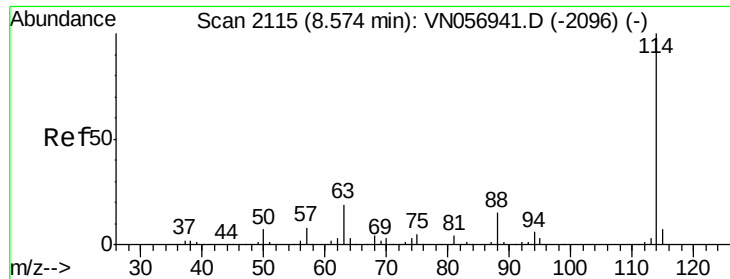
67 55.3 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

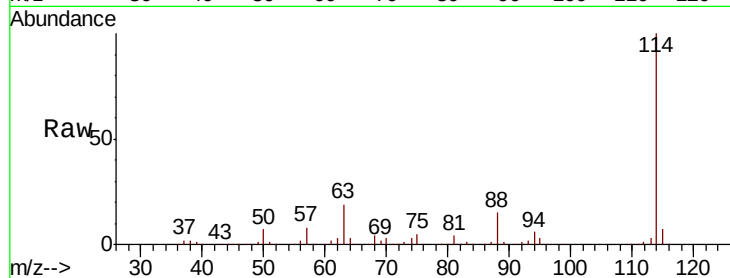




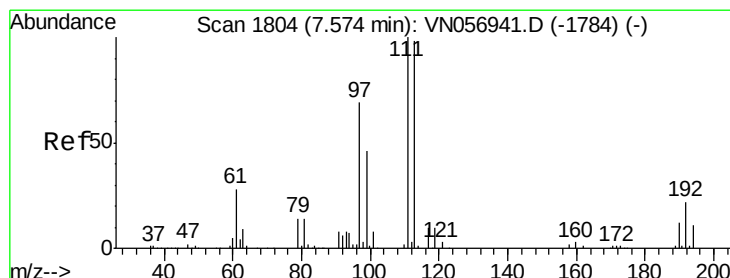
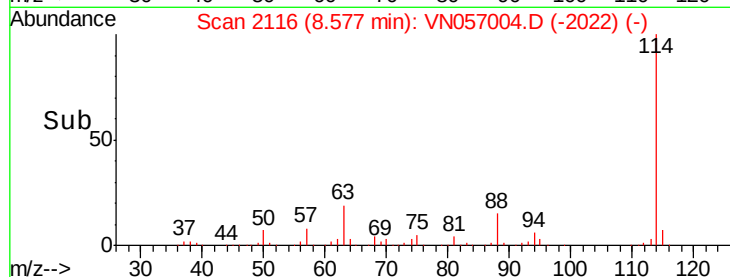
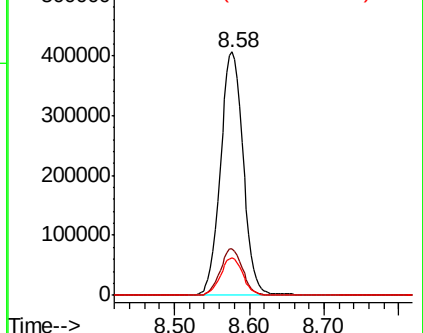
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

Tot Ion:114 Resp: 855215
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.0
 88 15.3 0.0 30.0

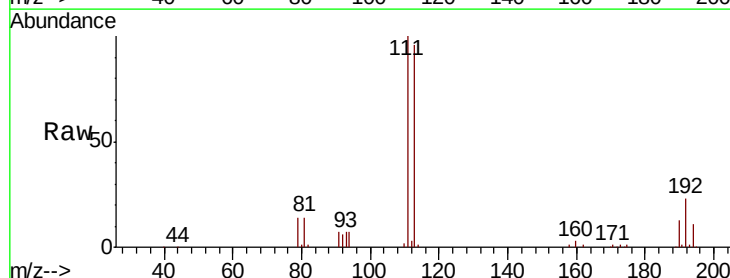


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

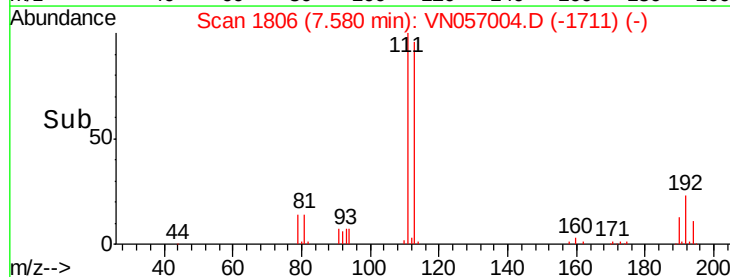
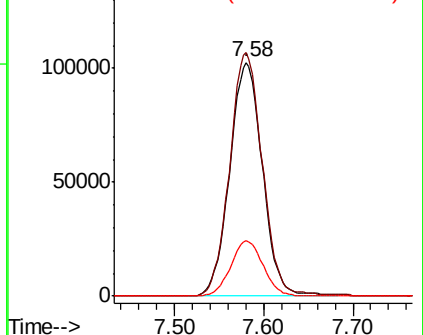


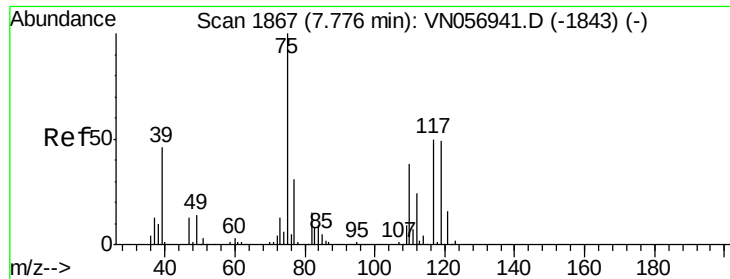
#35
 Dibromofluoromethane
 Concen: 47.768 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Tgt Ion:113 Resp: 261522
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.0 123.0
 192 23.4 18.4 27.6



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: 4.822 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#01

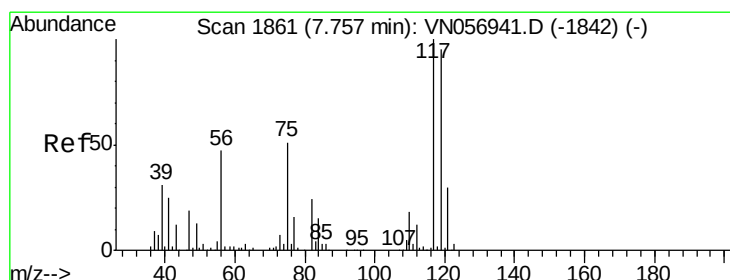
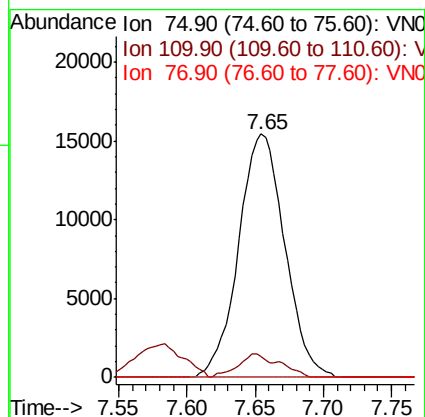
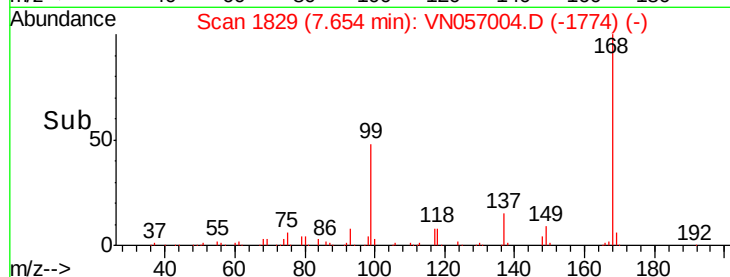
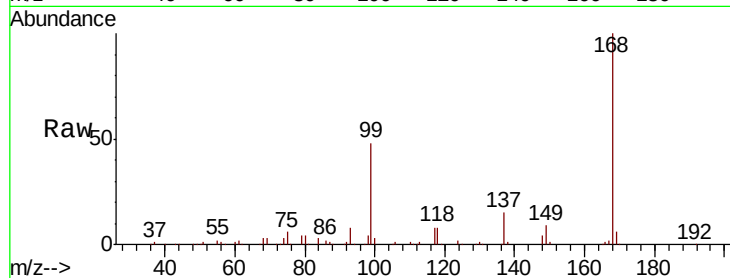
Tot Ion: 75 Resp: 36285

Ion Ratio Lower Upper

75 100

110 8.6 18.6 55.8#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 6.833 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

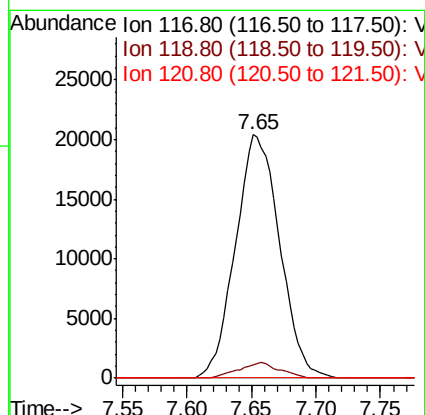
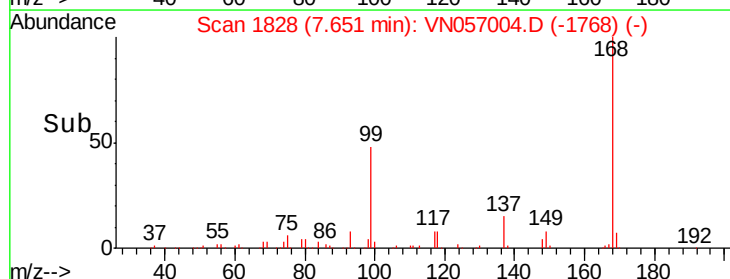
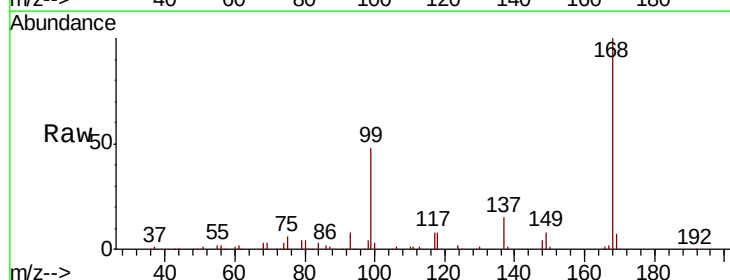
Tgt Ion: 117 Resp: 48642

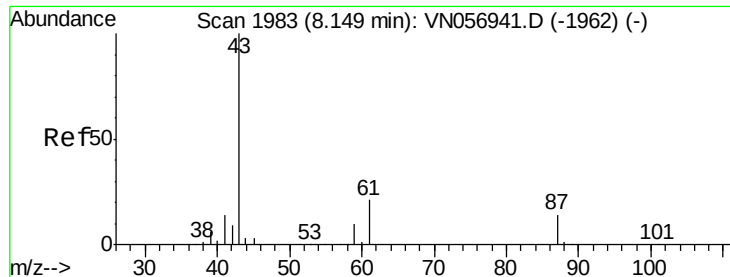
Ion Ratio Lower Upper

117 100

119 5.4 75.3 112.9#

121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 2.212 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

Instrument :

MSVOA_N

ClientSampleId :

PB121844ZHE#01

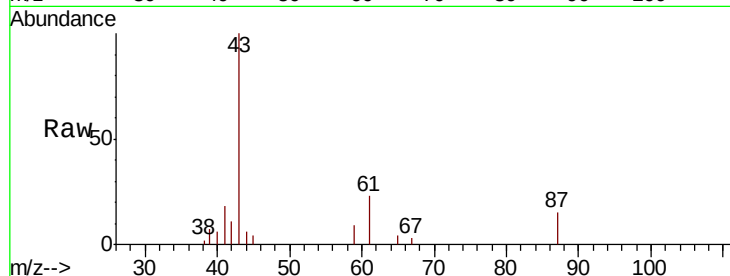
Tot Ion: 43 Resp: 22037

Ion Ratio Lower Upper

43 100

61 21.6 23.0 34.6#

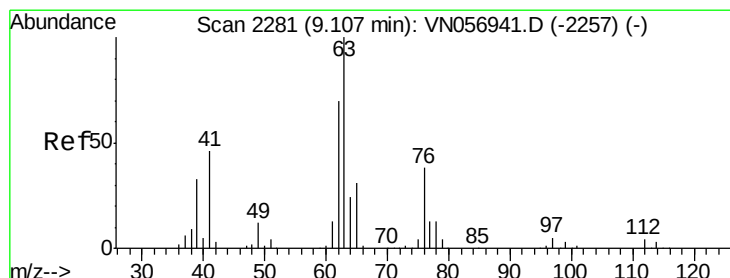
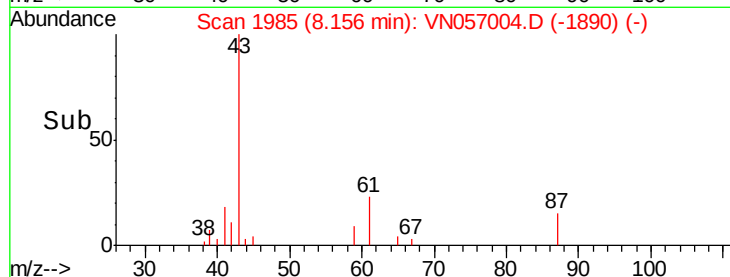
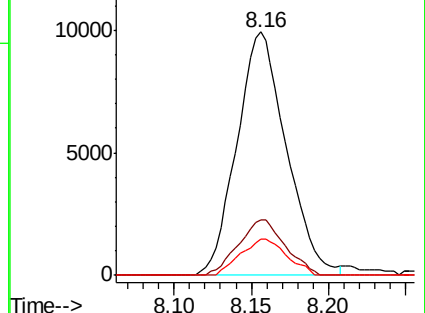
87 13.8 11.7 17.5



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



#45

1,2-Dichloropropane

Concen: 0.279 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057004.D

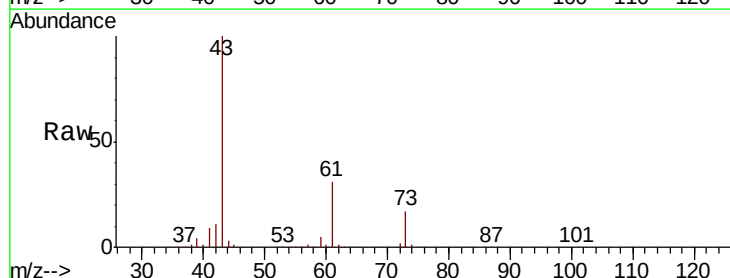
Acq: 31 Jul 2019 11:11

Tgt Ion: 63 Resp: 1731

Ion Ratio Lower Upper

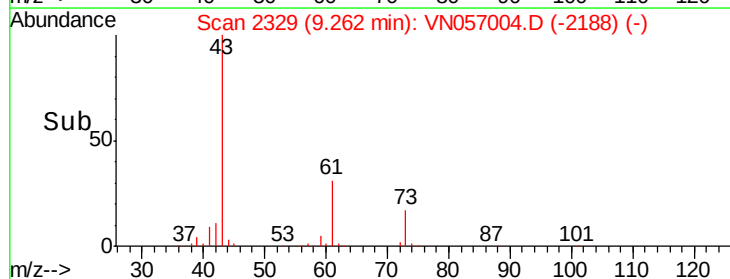
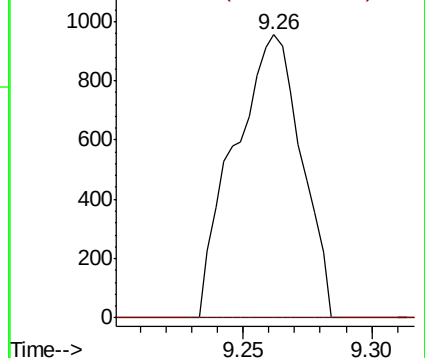
63 100

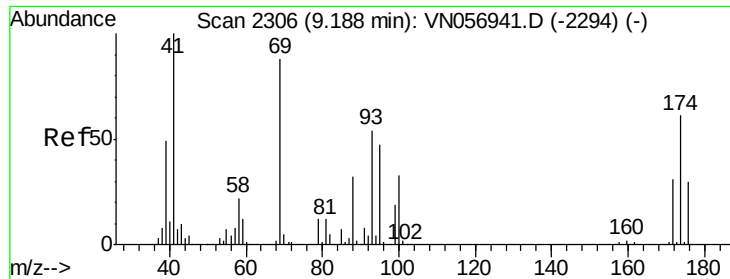
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

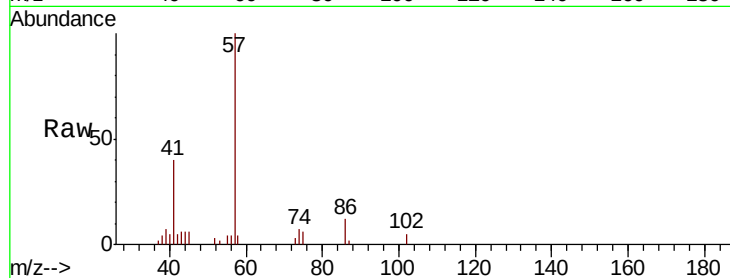




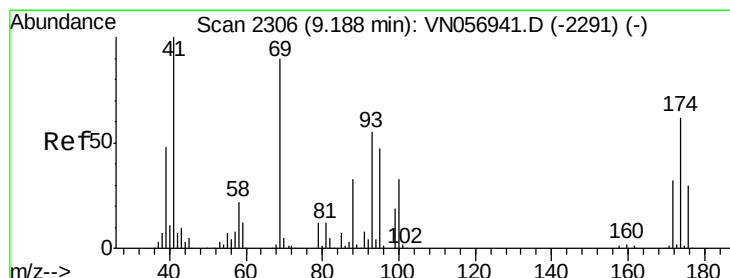
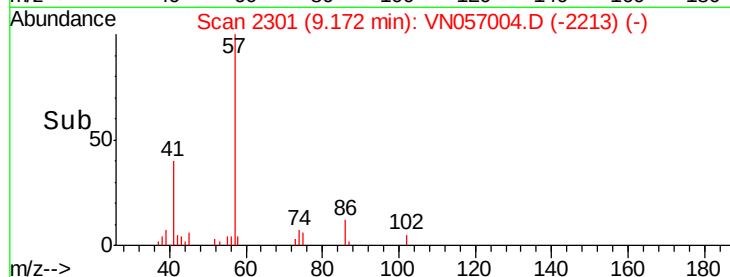
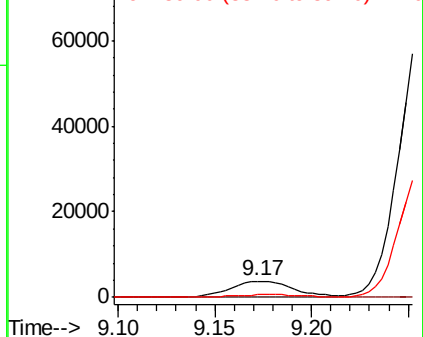
#48
Methvl methacrylate
Concen: 1.781 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#01

Tot Ion: 41 Resp: 8564
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 0.0 39.9 59.9#

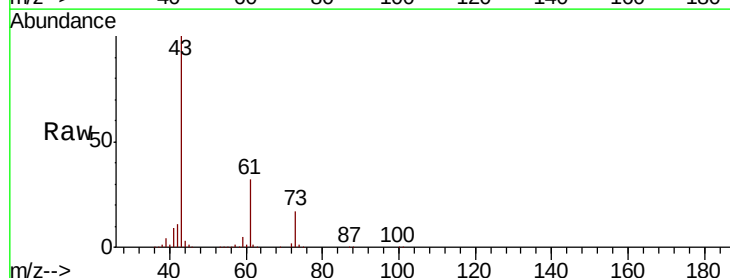


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

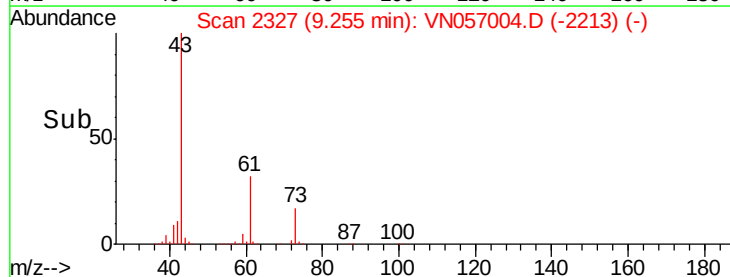
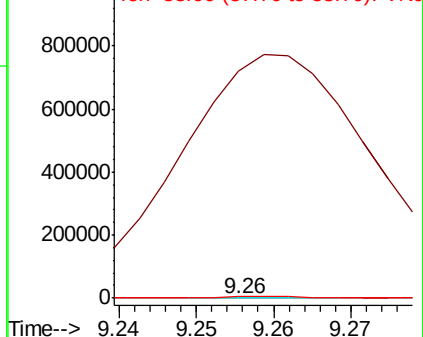


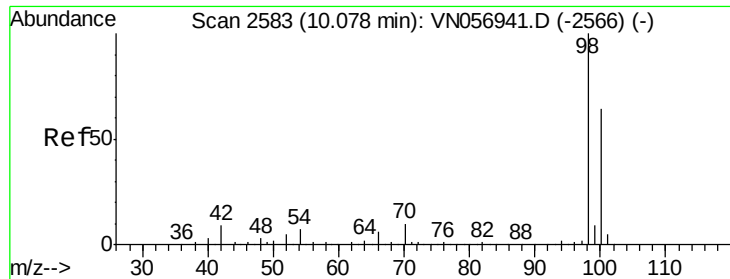
#49
1,4-Dioxane
Concen: 1.080 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.07 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

Tgt Ion: 88 Resp: 107
Ion Ratio Lower Upper
88 100
43 1349046.7 22.2 33.2#
58 6779.4 54.1 81.1#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 48.738 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

Instrument :

MSVOA_N

ClientSampleId :

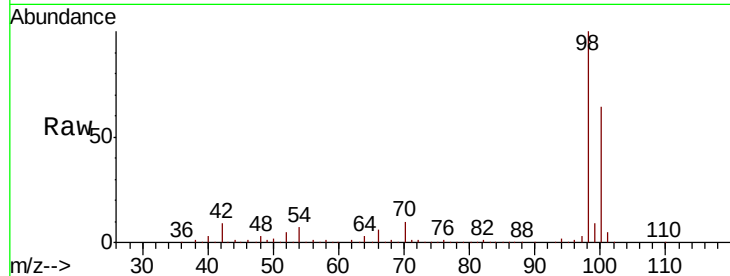
PB121844ZHE#01

Tot Ion: 98 Resp: 1017554

Ion Ratio Lower Upper

98 100

100 64.6 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

600000

500000

400000

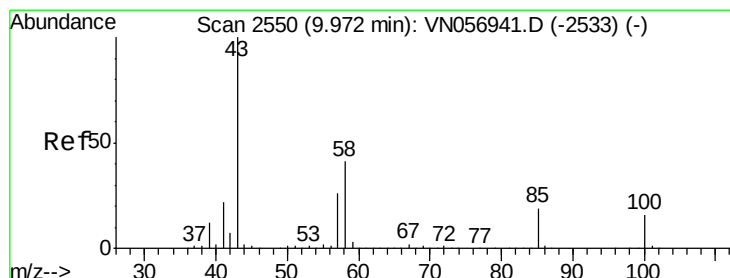
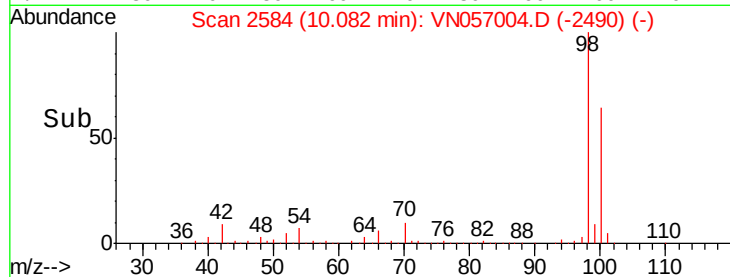
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.661 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057004.D

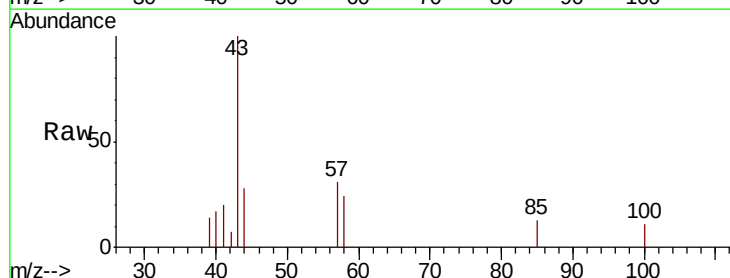
Acq: 31 Jul 2019 11:11

Tgt Ion: 43 Resp: 3910

Ion Ratio Lower Upper

43 100

58 40.6 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

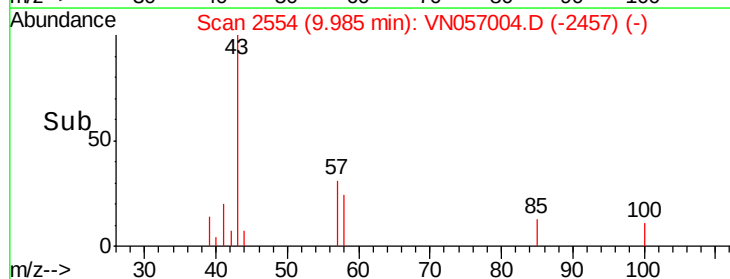
3000

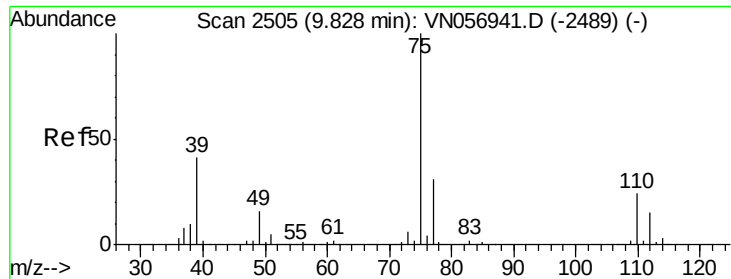
2000

1000

0

Time-->



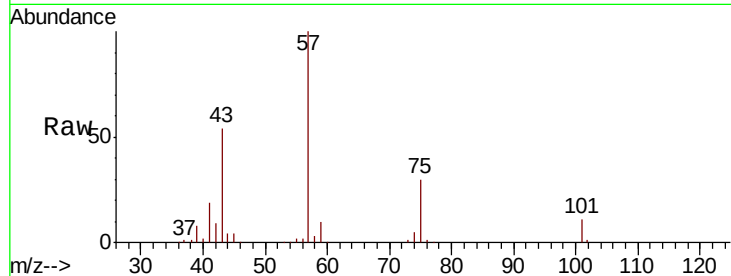


#54

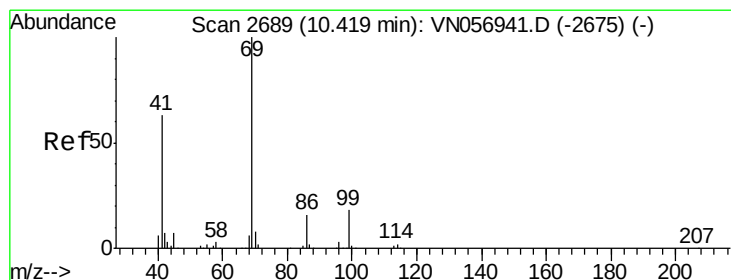
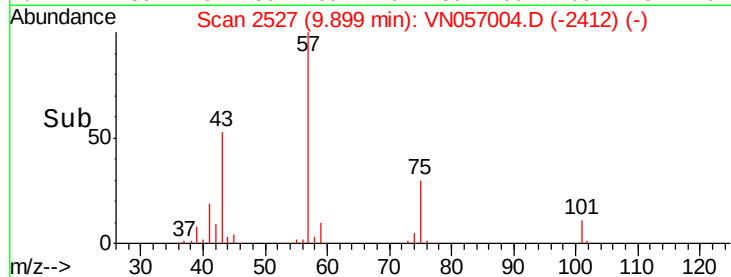
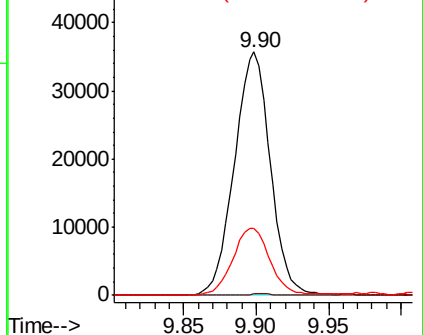
cis-1,3-Dichloropropene
 Concen: 6.927 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.07 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

Tot Ion	75	Resp	61435
Ion Ratio	Lower	Upper	
75	100		
77	0.5	25.0	37.6#
39	27.4	32.6	49.0#



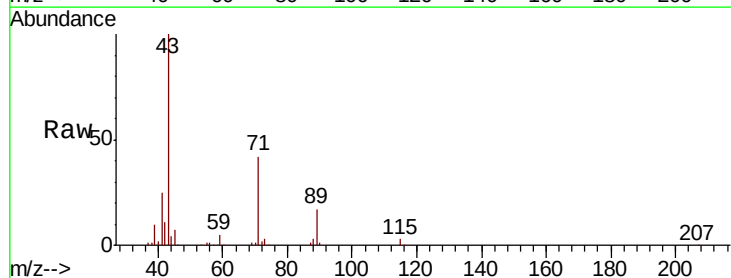
Abundance Ion 74.90 (74.60 to 75.60): VNC
 Ion 76.90 (76.60 to 77.60): VNC
 Ion 39.00 (38.70 to 39.70): VNC



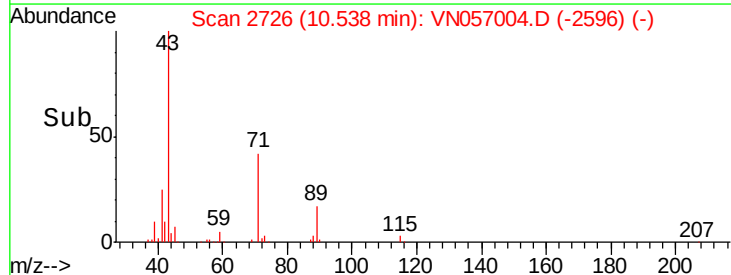
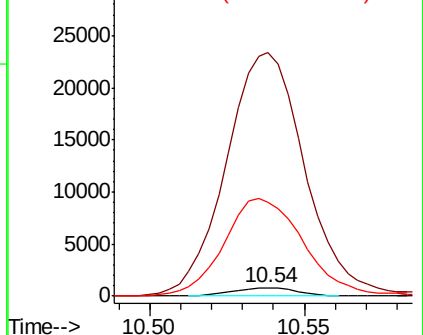
#56

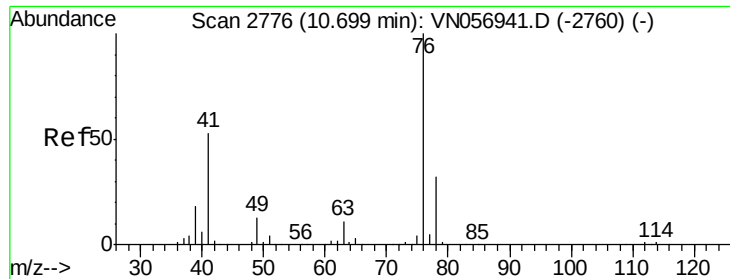
Ethyl methacrylate
 Concen: 1.893 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.12 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Tgt Ion	69	Resp	1156
Ion Ratio	Lower	Upper	
69	100		
41	3599.4	49.2	73.8#
39	1471.0	23.1	34.7#



Abundance Ion 69.00 (68.70 to 69.70): VNC
 Ion 41.00 (40.70 to 41.70): VNC
 Ion 39.00 (38.70 to 39.70): VNC

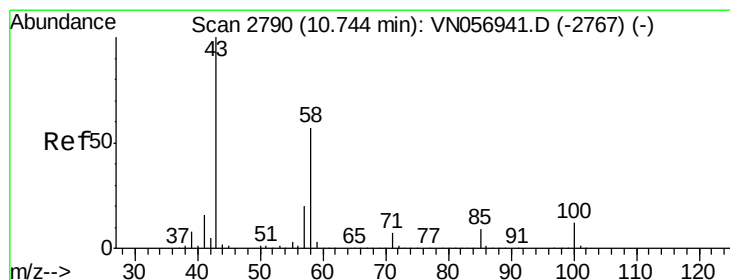
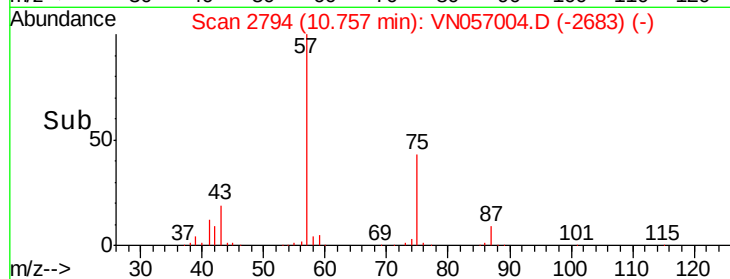
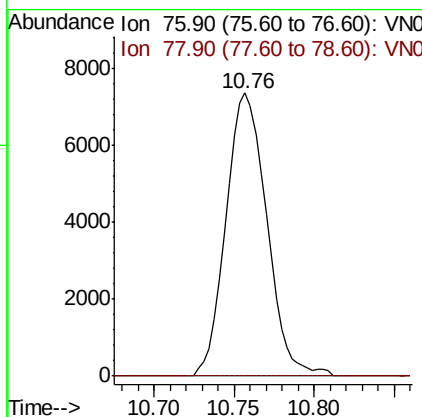
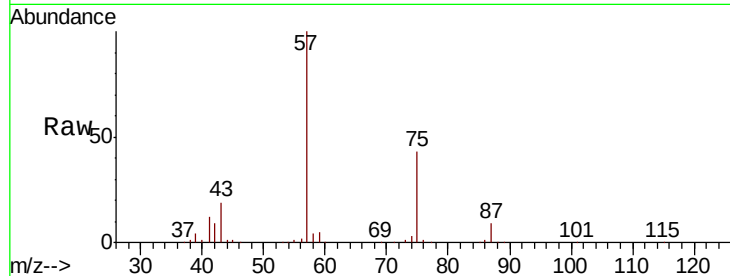




#57
 1,3-Dichloropropane
 Concen: 1.381 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

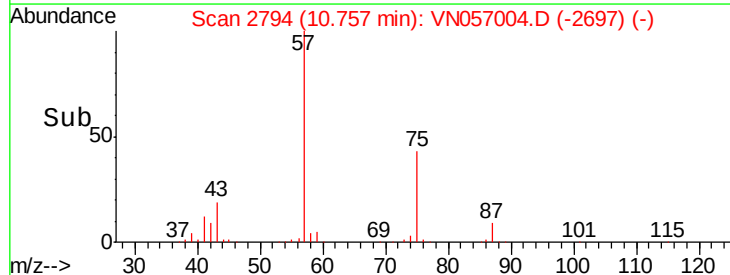
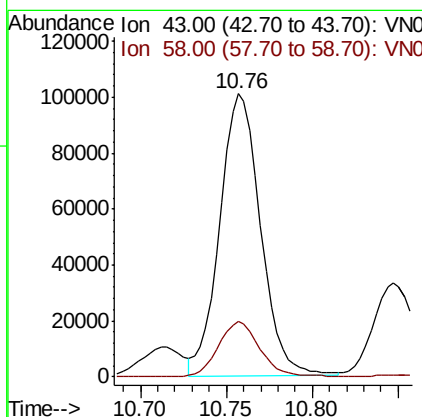
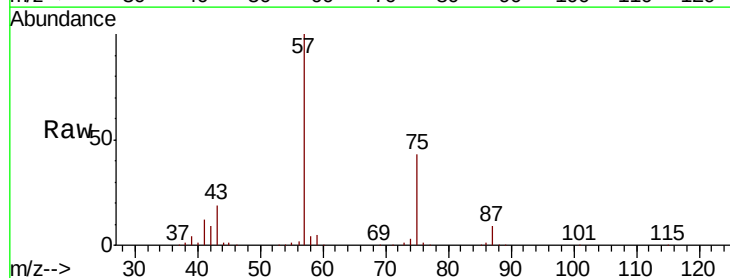
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

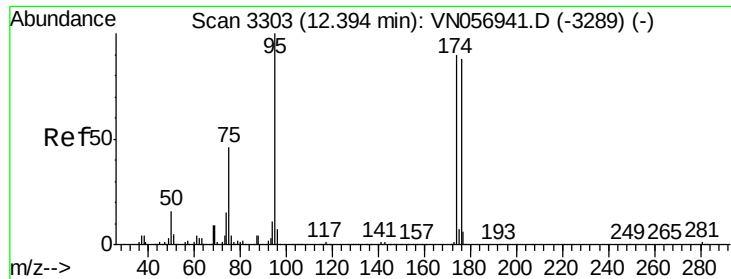
Tot Ion: 76 Resp: 12793
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 38.769 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Tgt Ion: 43 Resp: 166990
 Ion Ratio Lower Upper
 43 100
 58 20.0 28.5 85.5#

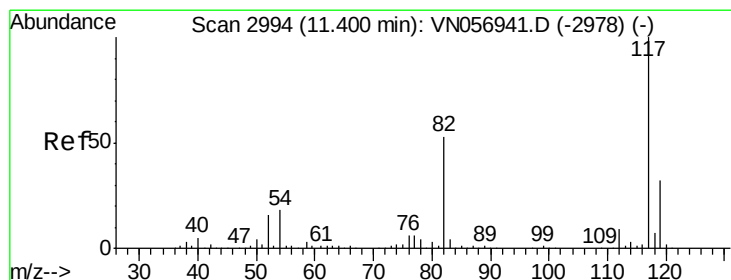
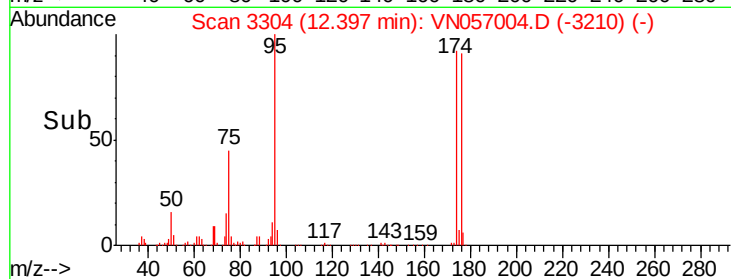
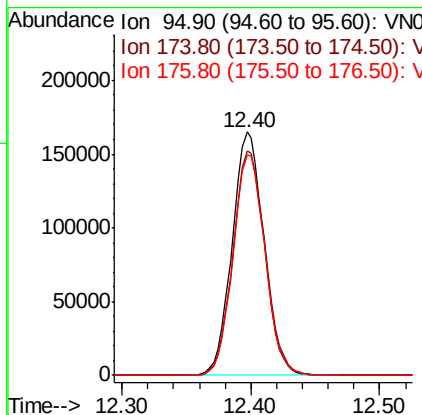
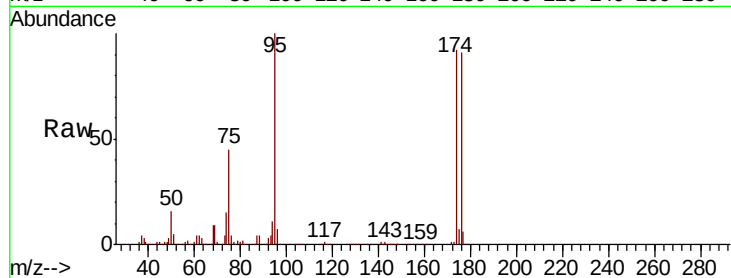




#62
4-Bromofluorobenzene
Concen: 41.504 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

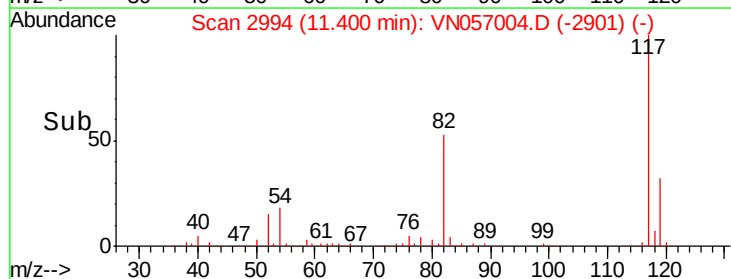
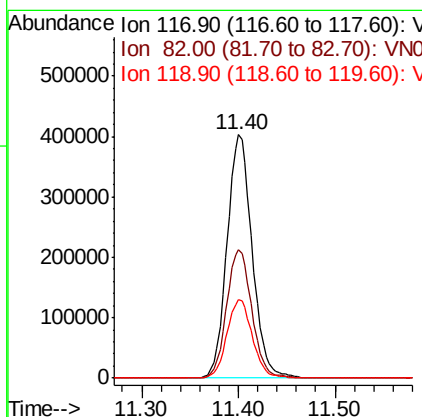
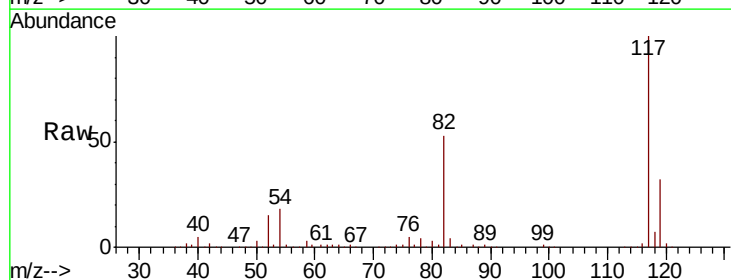
Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#01

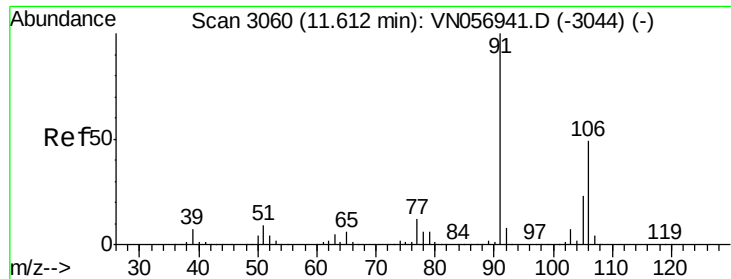
Tot Ion: 95 Resp: 282094
Ion Ratio Lower Upper
95 100
174 93.9 0.0 182.2
176 91.2 0.0 179.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

Tgt Ion: 117 Resp: 726064
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 32.2 25.8 38.6





#68

m/p-Xylenes

Concen: 0.268 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.01 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

Instrument :

MSVOA_N

ClientSampleId :

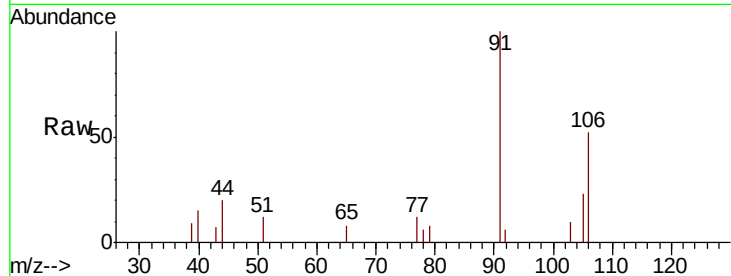
PB121844ZHE#01

Tot Ion:106 Resp: 2530

Ion Ratio Lower Upper

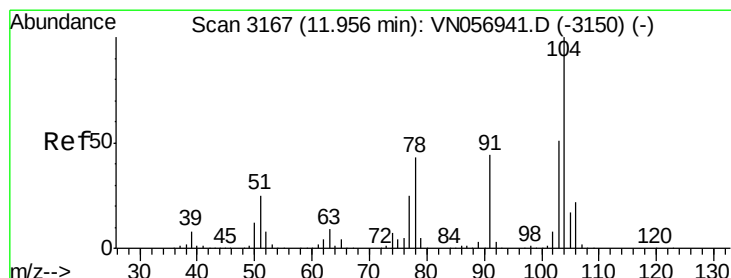
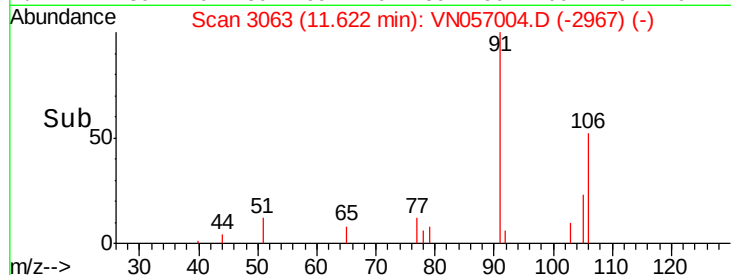
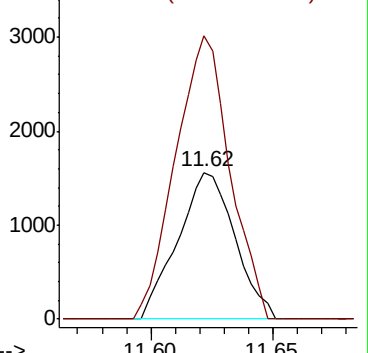
106 100

91 184.5 160.0 240.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 1.882 ug/l

RT: 11.96 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VN057004.D

Acq: 31 Jul 2019 11:11

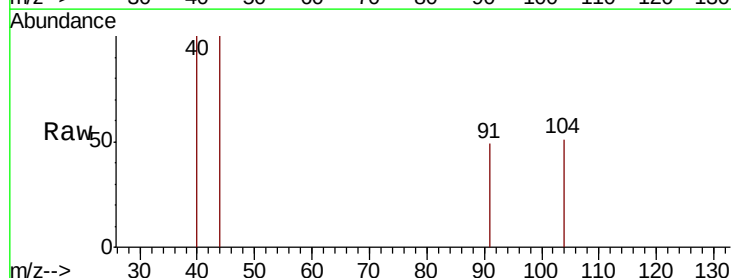
Tgt Ion:104 Resp: 251

Ion Ratio Lower Upper

104 100

78 0.0 38.1 57.1#

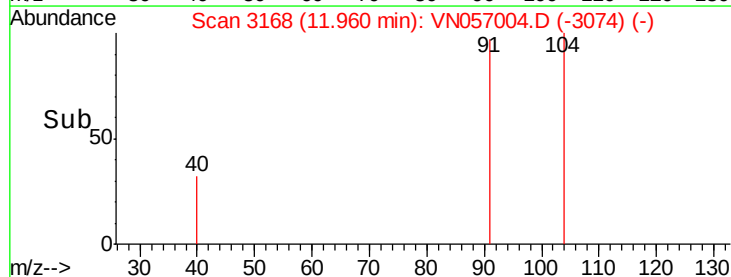
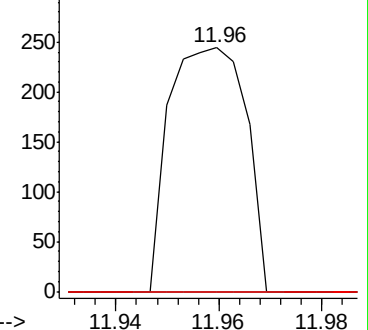
103 0.0 44.3 66.5#

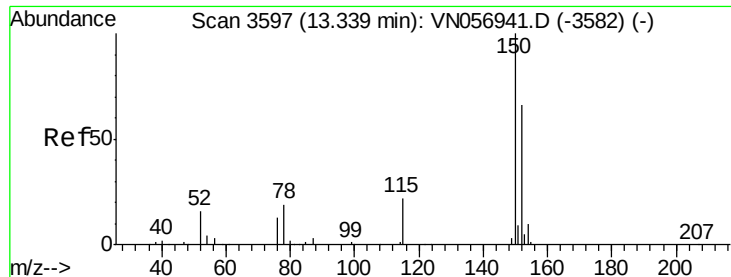


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



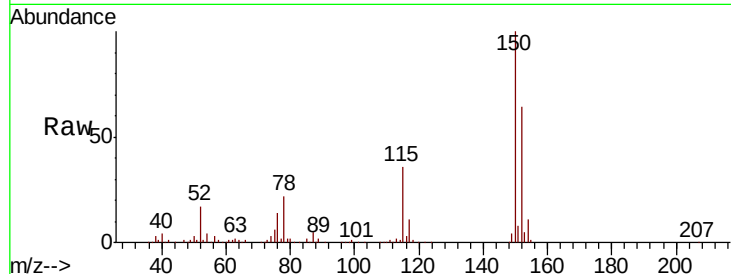


#72

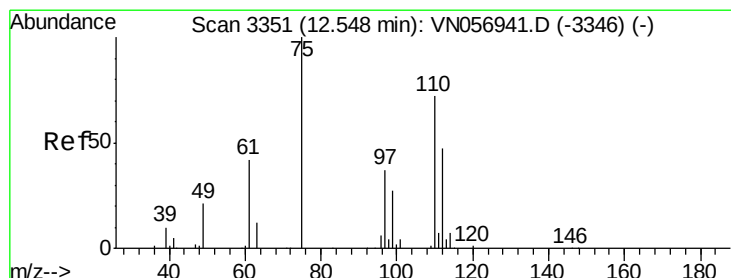
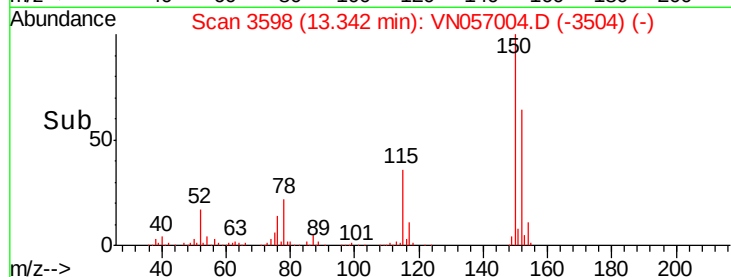
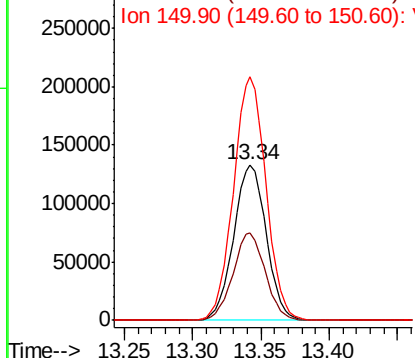
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

Instrument :
MSVOA_N
ClientSampleId :
PB121844ZHE#01

Tot Ion:152 Resp: 220397
Ion Ratio Lower Upper
152 100
115 55.6 28.2 84.6
150 156.3 0.0 349.4



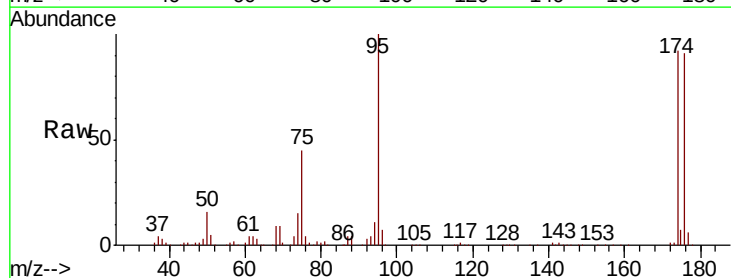
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



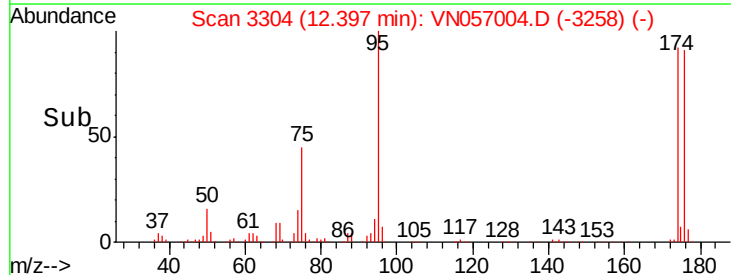
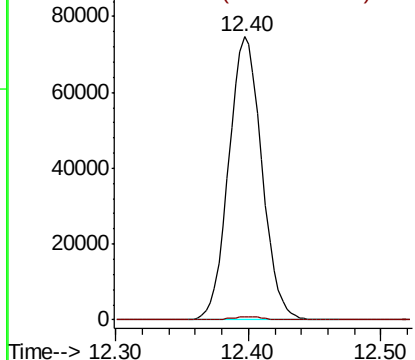
#76

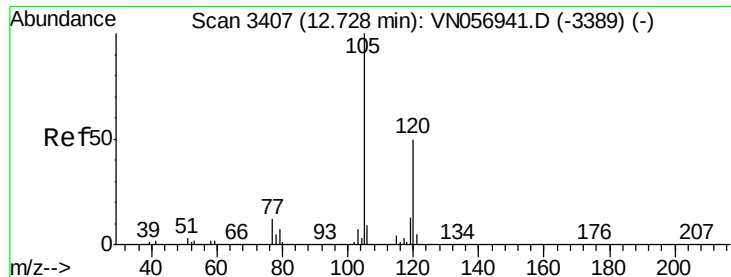
1,2,3-Trichloropropane
Concen: 28.918 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN057004.D
Acq: 31 Jul 2019 11:11

Tgt Ion: 75 Resp: 129435
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

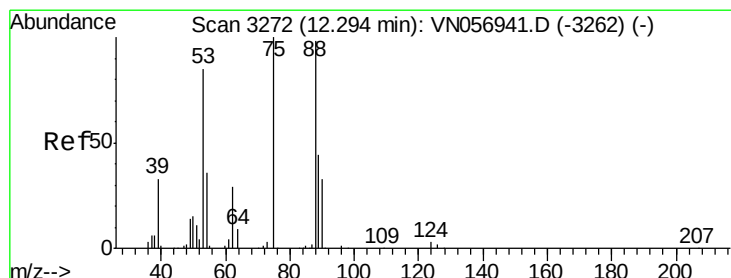
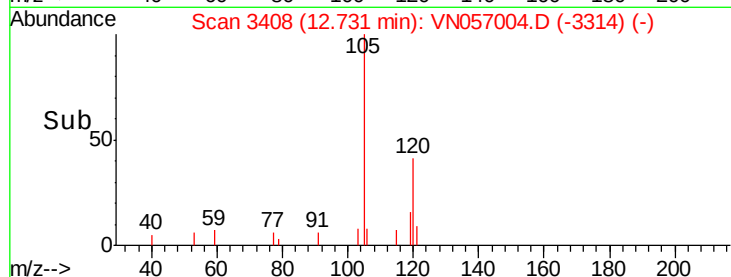
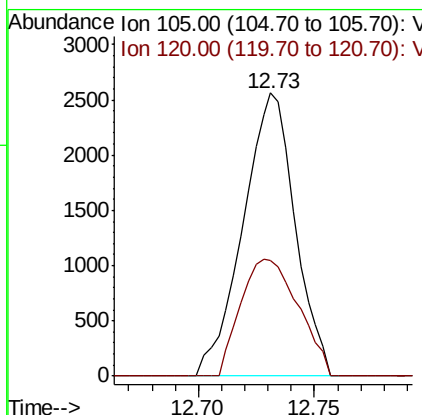
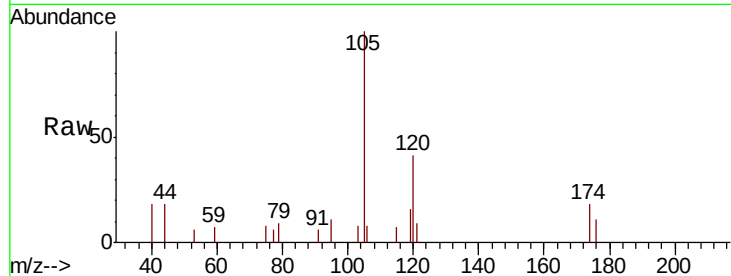




#80
 1,3,5-Trimethylbenzene
 Concen: 0.255 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

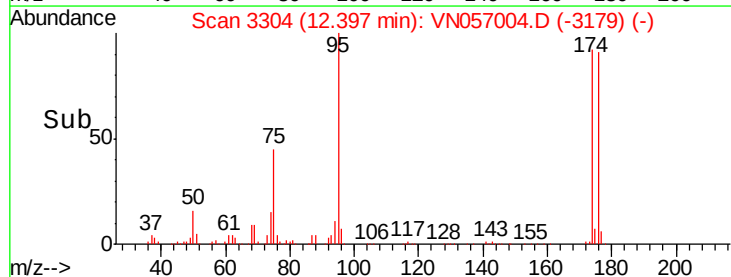
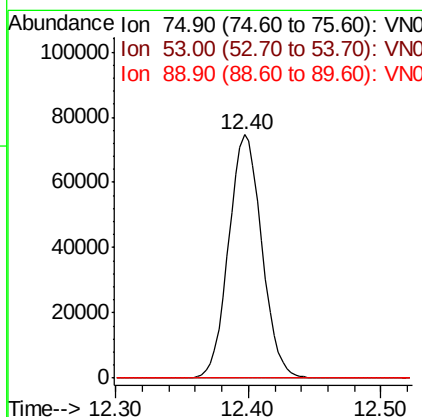
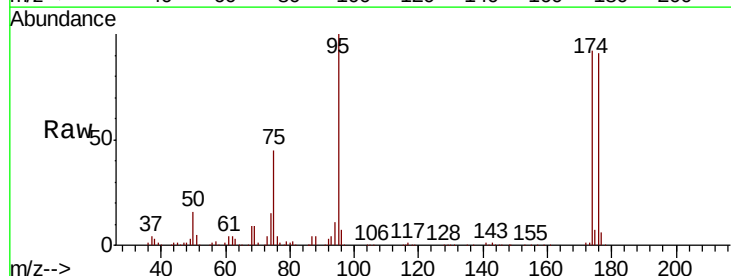
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

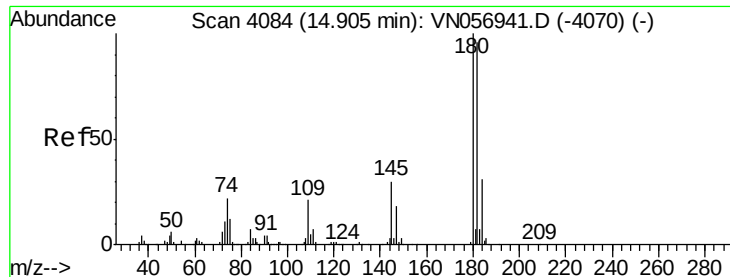
Tot Ion:105 Resp: 3993
 Ion Ratio Lower Upper
 105 100
 120 45.7 24.8 74.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.913 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Tgt Ion: 75 Resp: 129435
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.3 103.9#
 89 0.0 35.8 53.6#

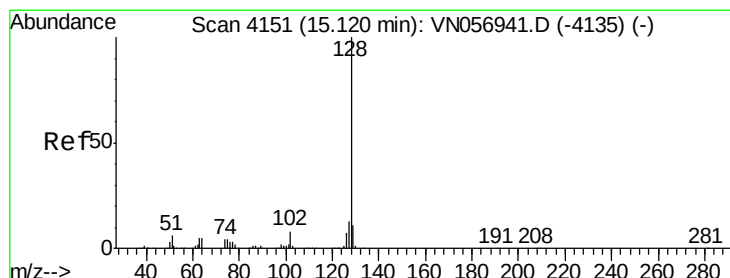
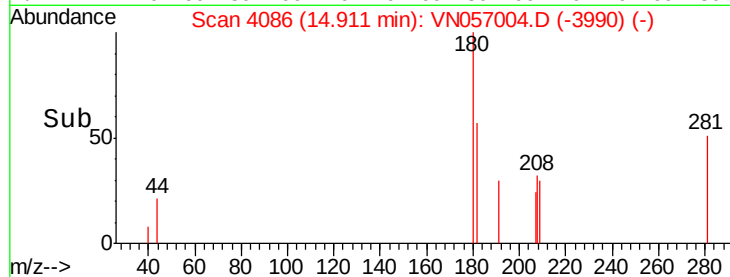
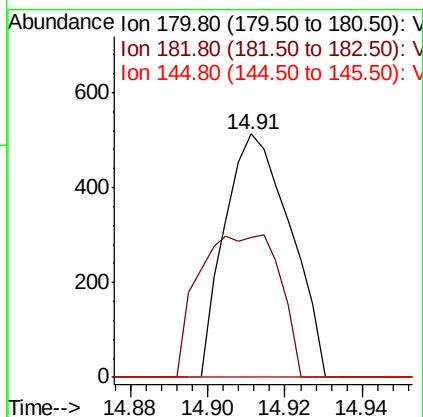
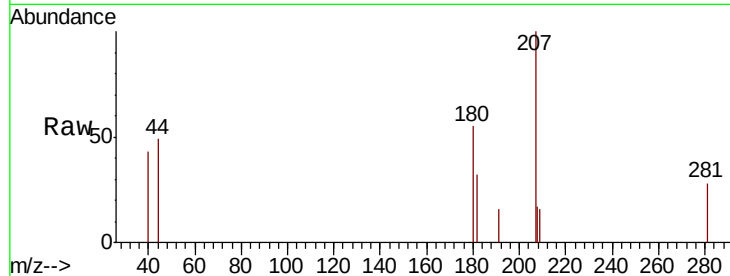




#93
 1,2,4-Trichlorobenzene
 Concen: 2.860 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

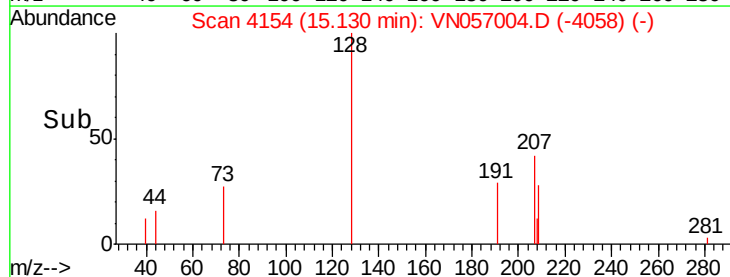
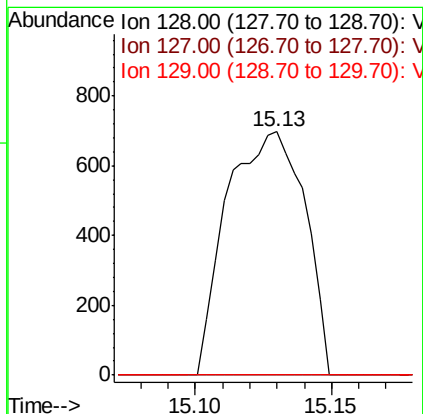
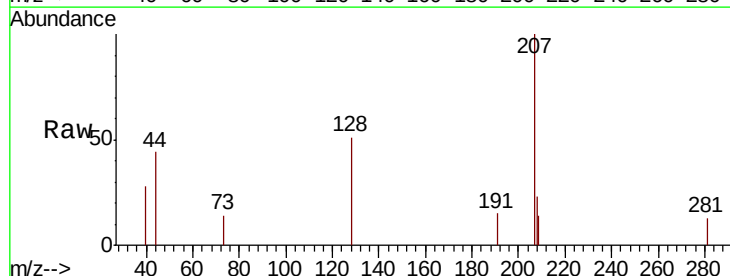
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

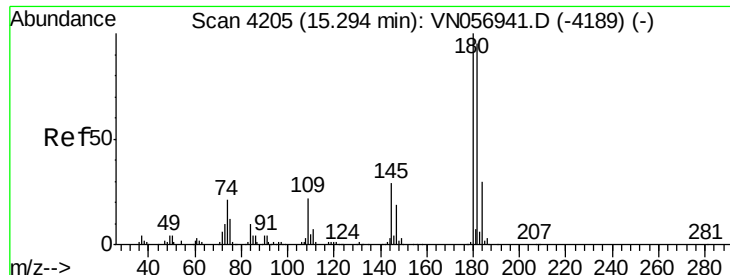
Tot Ion:180 Resp: 603
 Ion Ratio Lower Upper
 180 100
 182 72.3 47.6 142.8
 145 0.0 14.2 42.8#



#95
 Naphthalene
 Concen: 3.725 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.01 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Tgt Ion:128 Resp: 1384
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.0 15.0#
 129 0.0 8.7 13.1#

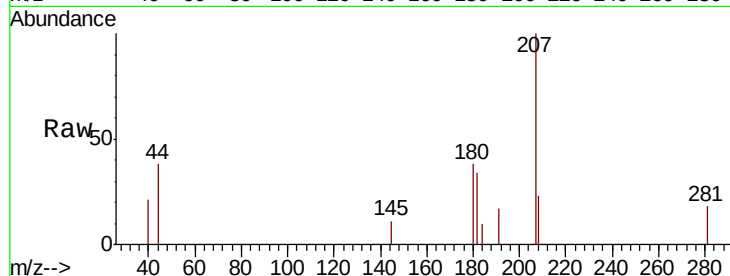




#96
 1,2,3-Trichlorobenzene
 Concen: 2.230 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN057004.D
 Acq: 31 Jul 2019 11:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121844ZHE#01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	48.0	144.2
145	17.0	15.0	45.0



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

