

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092719\
 Data File : VN058417.D
 Acq On : 27 Sep 2019 18:41
 Operator : JC/SP
 Sample : K5054-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAT-091019-C

Quant Time: Sep 28 00:07:02 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	470412	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	754254	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	637254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	267818	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	322027	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	7.58	113	226736	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	10.08	98	922050	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	
62) 4-Bromofluorobenzene	12.41	95	306729	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	

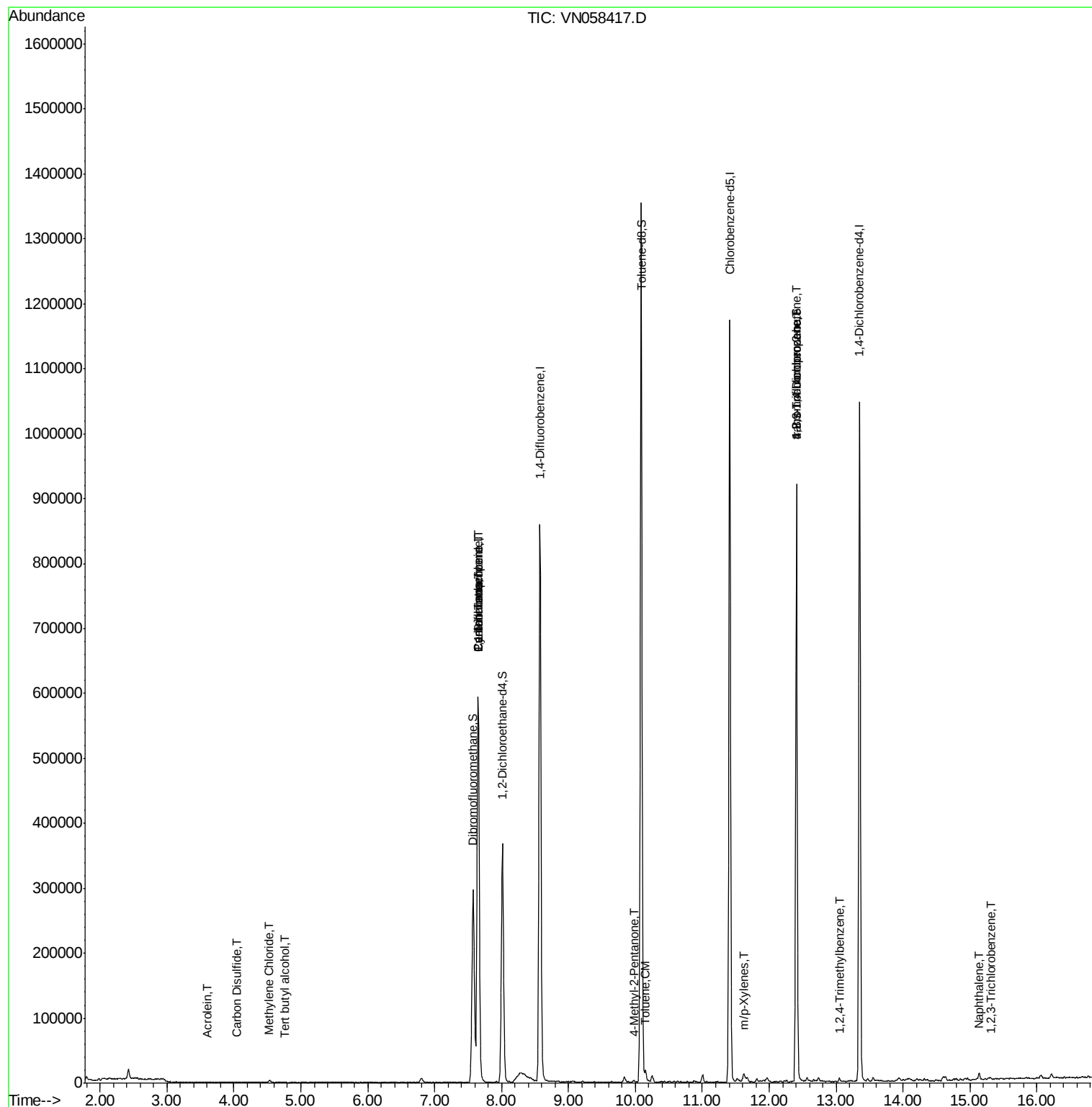
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	401	0.515	ug/l #	71
13) Acrolein	3.60	56	29	0.212	ug/l #	1
17) Carbon Disulfide	4.03	76	2053	0.324	ug/l #	74
20) Methylene Chloride	4.53	84	2243	0.491	ug/l #	77
31) Cyclohexane	7.65	56	12864	1.828	ug/l #	35
36) 1,1-Dichloropropene	7.65	75	39896	6.845	ug/l #	51
38) Carbon Tetrachloride	7.65	117	47683	8.329	ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	1179	0.209	ug/l	99
52) Toluene	10.15	92	6126	0.563	ug/l	89
68) m/p-Xylenes	11.62	106	3318	0.441	ug/l	90
76) 1,2,3-Trichloropropane	12.41	75	168053	34.567	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	168053	112.381	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.05	105	3009	0.207	ug/l	93
95) Naphthalene	15.14	128	8664	0.683	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	1158	0.251	ug/l #	79

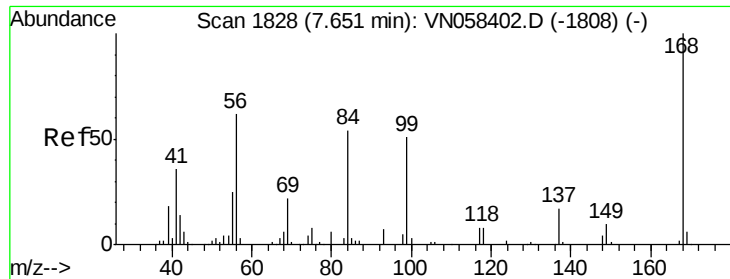
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN092719\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058417.D

Acq: 27 Sep 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

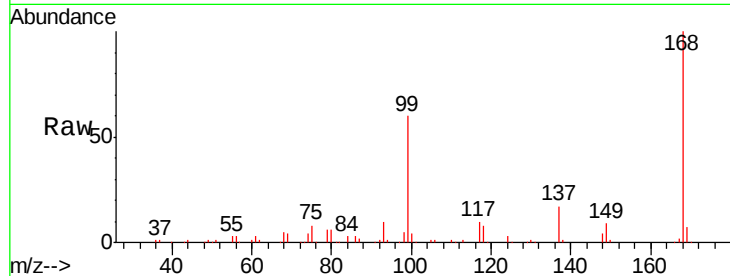
PAT-091019-C

Tgt Ion: 168 Resp: 470412

Ion Ratio Lower Upper

168 100

99 59.6 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): VN058417.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN058417.D (-1735) (-)

7.65

200000

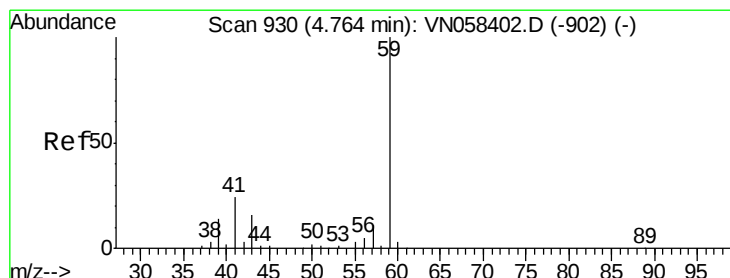
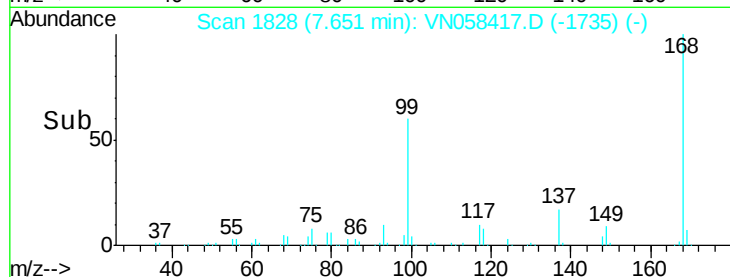
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.515 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.00 min

Lab File: VN058417.D

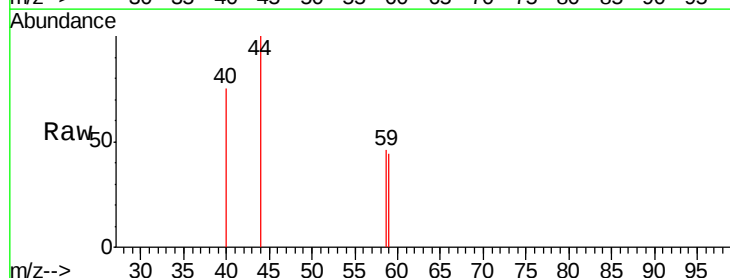
Acq: 27 Sep 2019 18:41

Tgt Ion: 59 Resp: 401

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN058417.D (-837) (-)

Ion 57.00 (56.70 to 57.70): VN058417.D (-837) (-)

4.76

500

400

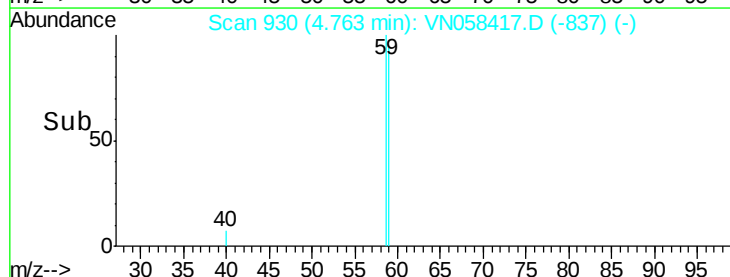
300

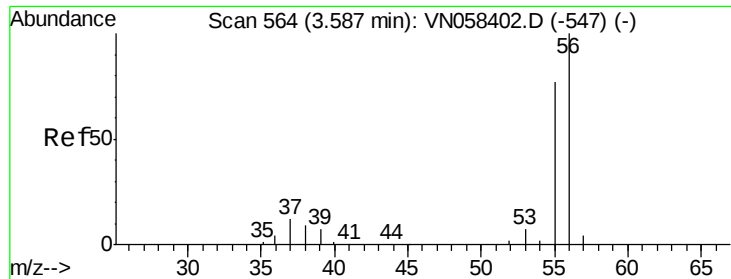
200

100

0

Time-->





#13

Acrolein

Concen: 0.212 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN058417.D

Acq: 27 Sep 2019 18:41

Instrument :

MSVOA_N

ClientSampled :

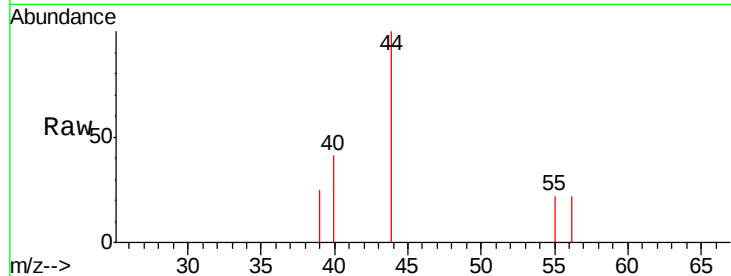
PAT-091019-C

Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

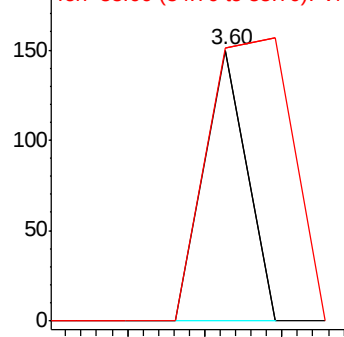
56 100

55 203.4 58.3 87.5#

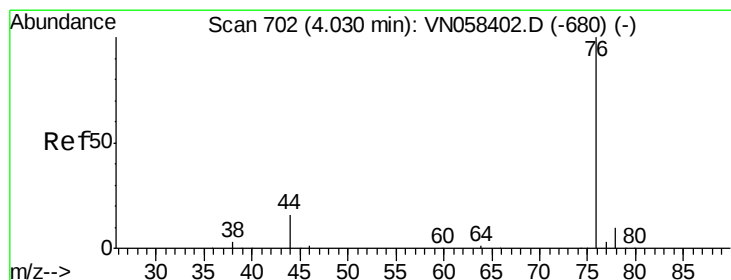
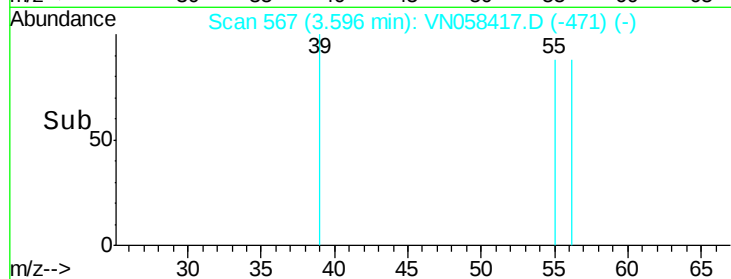


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#17

Carbon Disulfide

Concen: 0.324 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058417.D

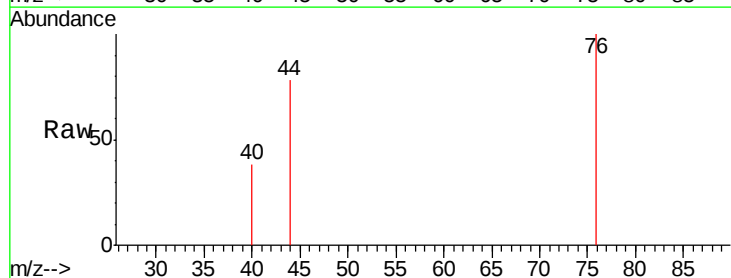
Acq: 27 Sep 2019 18:41

Tgt Ion: 76 Resp: 2053

Ion Ratio Lower Upper

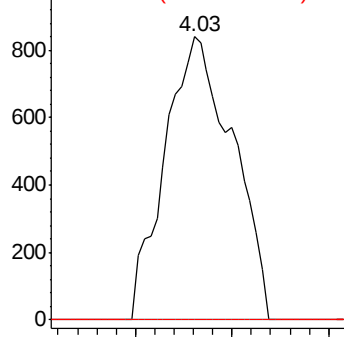
76 100

78 0.0 7.7 11.5#

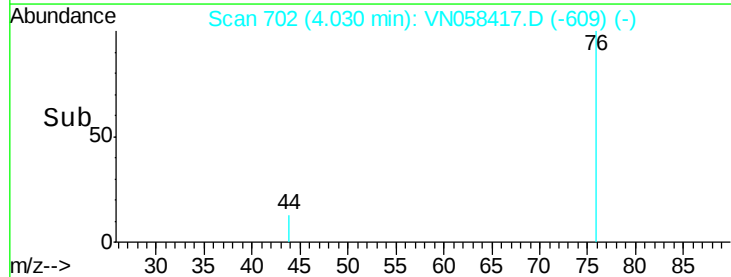


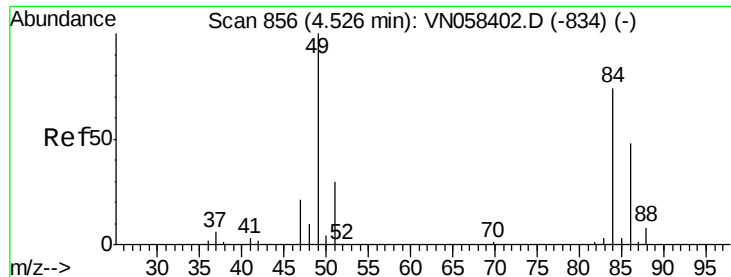
Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->





#20

Methylene Chloride

Concen: 0.491 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058417.D

Acq: 27 Sep 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

PAT-091019-C

Tgt Ion: 84 Resp: 2243

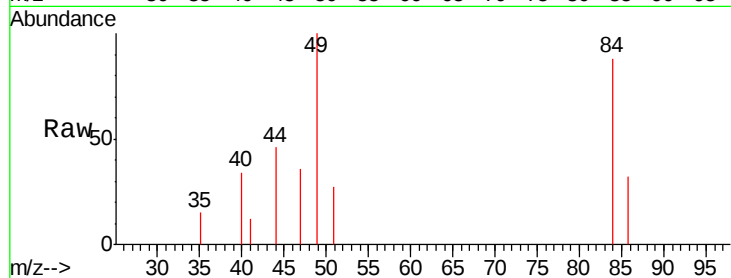
Ion Ratio Lower Upper

84 100

49 113.3 107.9 161.9

51 30.7 32.8 49.2#

86 36.5 51.5 77.3#

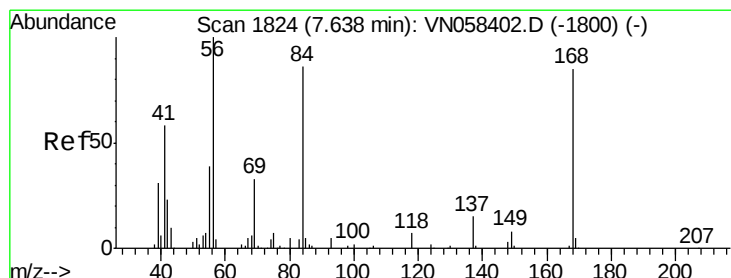
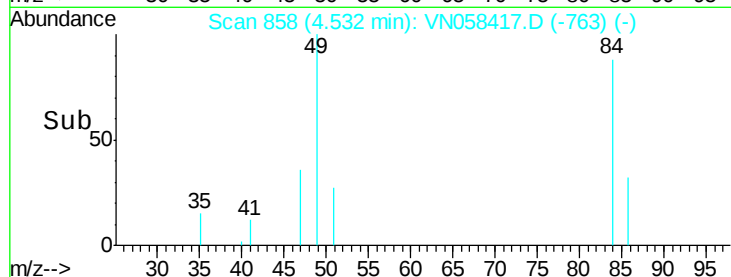
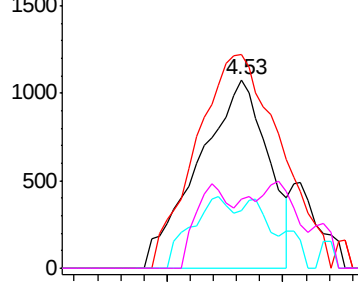


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#31

Cyclohexane

Concen: 1.828 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058417.D

Acq: 27 Sep 2019 18:41

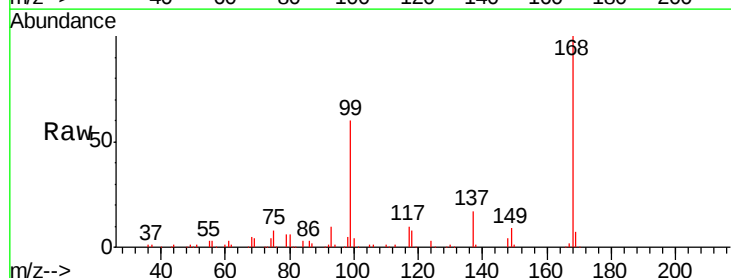
Tgt Ion: 56 Resp: 12864

Ion Ratio Lower Upper

56 100

69 134.9 26.2 39.4#

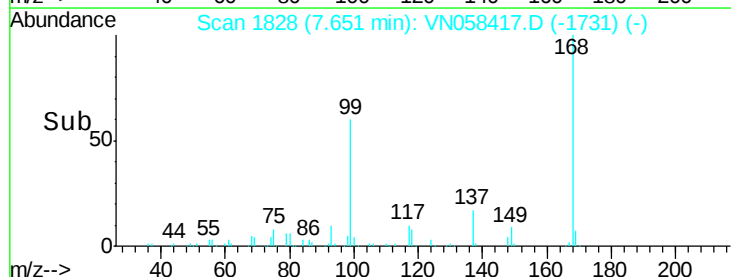
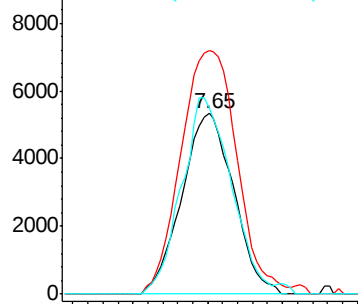
84 103.0 67.6 101.4#

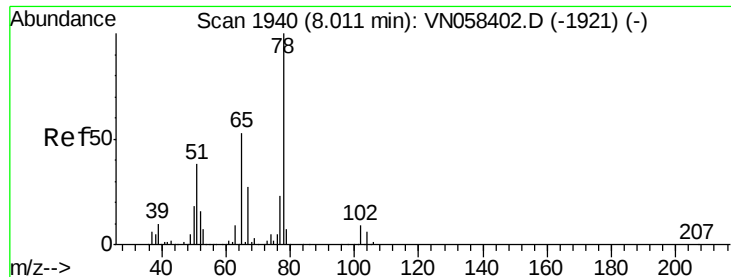


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

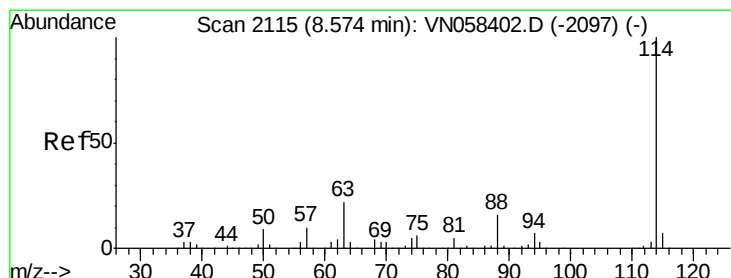
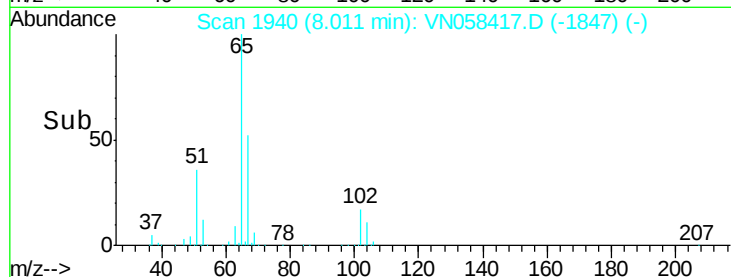
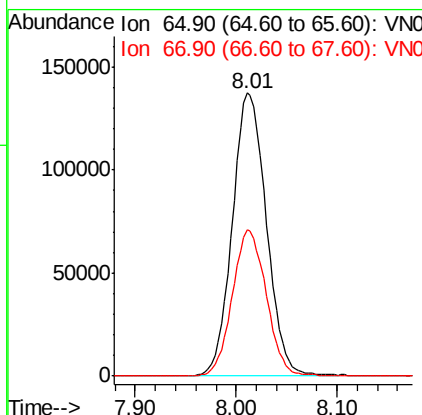
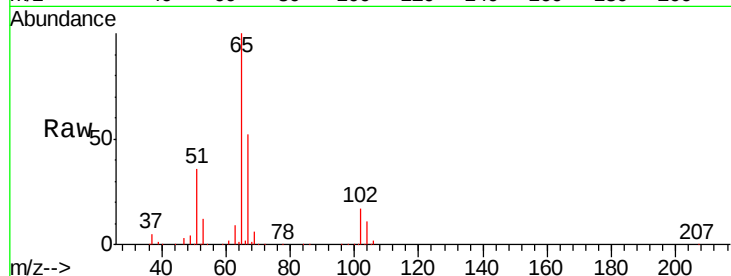




#33
 1,2-Dichloroethane-d4
 Concen: 48.651 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

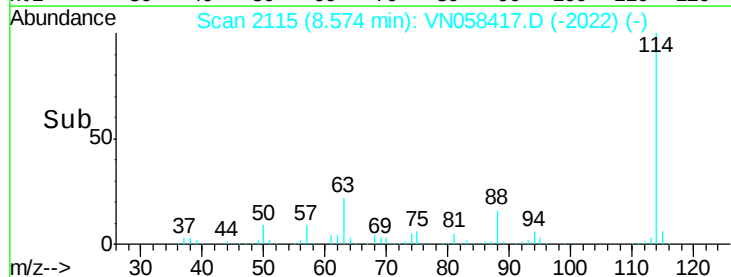
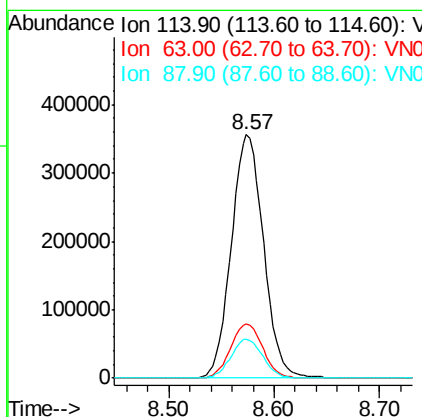
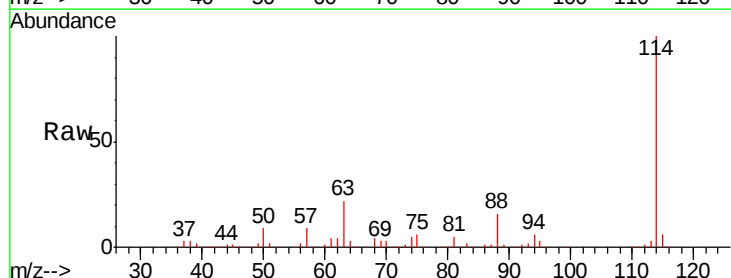
Instrument :
 MSVOA_N
 ClientSampleId :
 PAT-091019-C

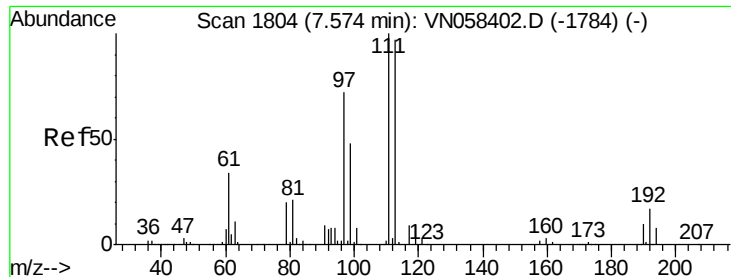
Tgt Ion: 65 Resp: 322027
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

Tgt Ion: 114 Resp: 754254
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.0
 88 16.2 0.0 32.2

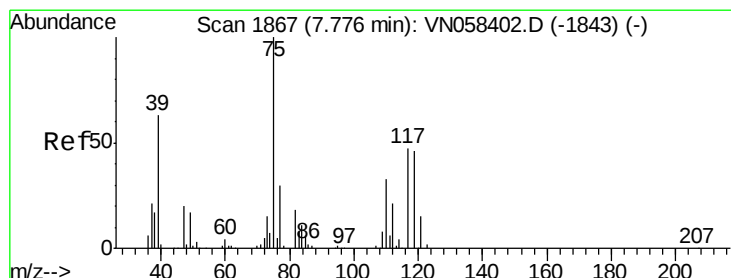
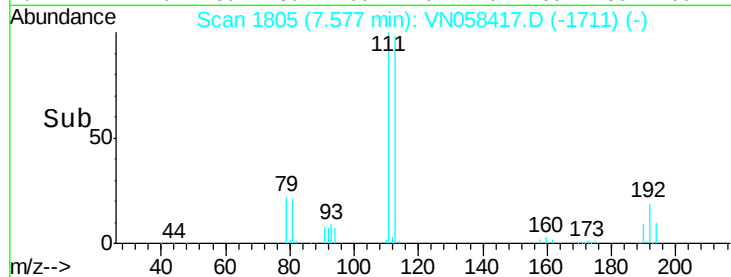
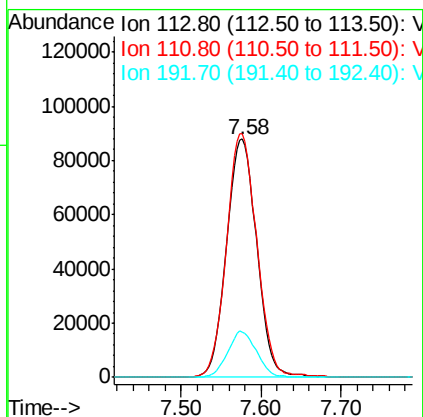
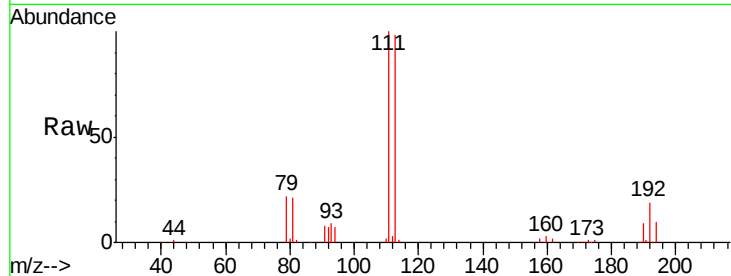




#35
 Dibromofluoromethane
 Concen: 49.400 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

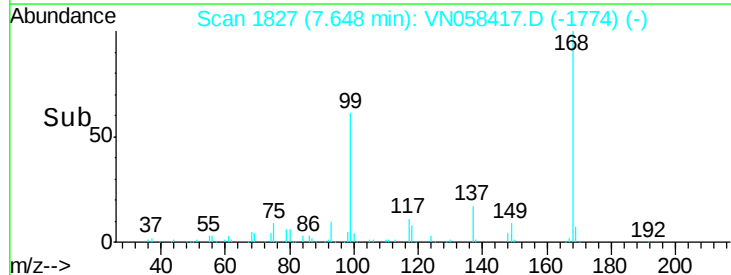
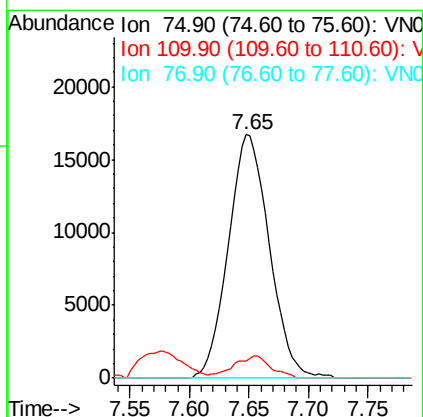
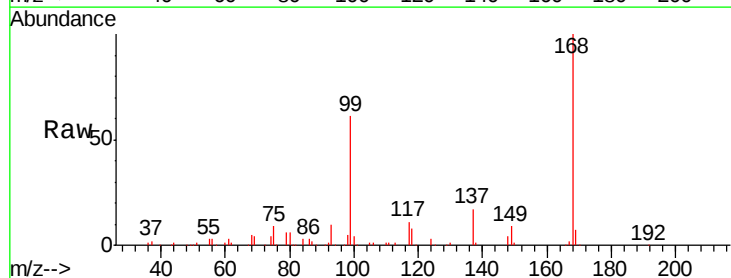
Instrument :
 MSVOA_N
 ClientSampleId :
 PAT-091019-C

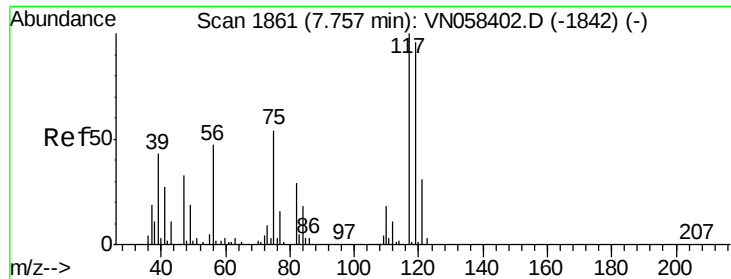
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.4	125.2
192	18.6	14.9	22.3



#36
 1,1-Dichloropropene
 Concen: 6.845 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	16.4	49.2#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.329 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058417.D

Acq: 27 Sep 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

PAT-091019-C

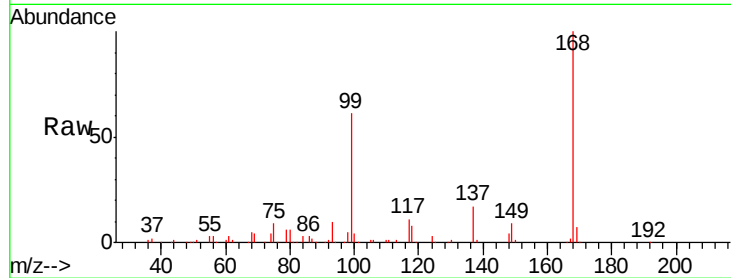
Tgt Ion:117 Resp: 47683

Ion Ratio Lower Upper

117 100

119 4.1 76.6 115.0#

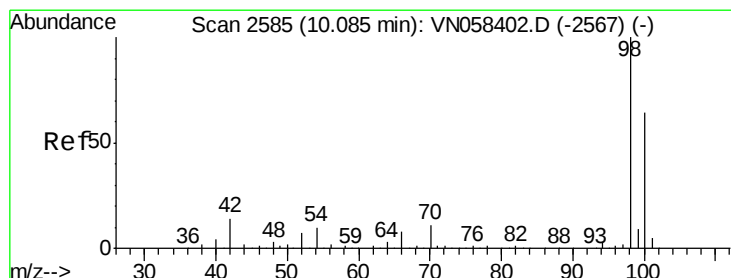
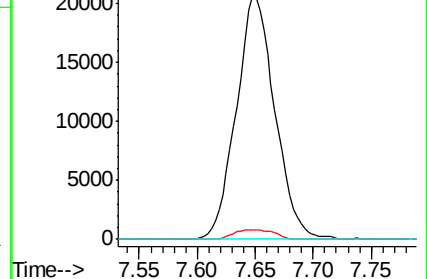
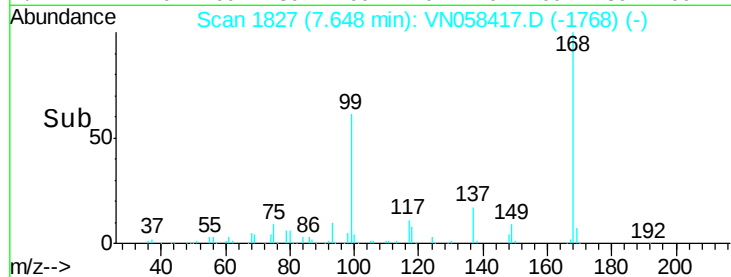
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 51.694 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058417.D

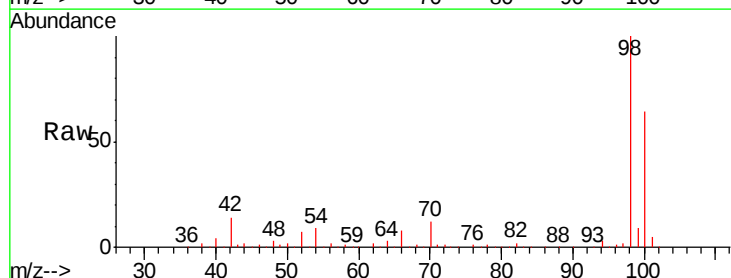
Acq: 27 Sep 2019 18:41

Tgt Ion: 98 Resp: 922050

Ion Ratio Lower Upper

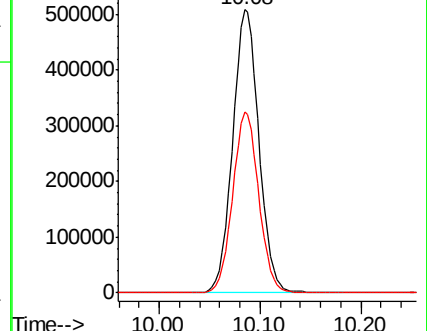
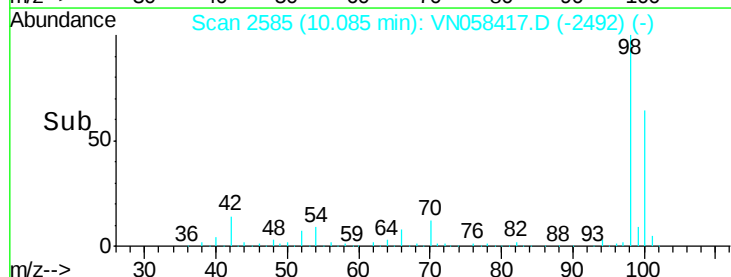
98 100

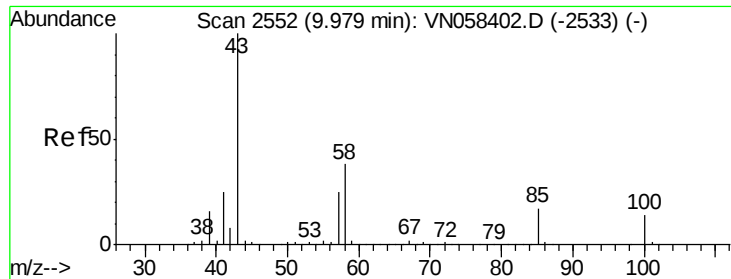
100 63.7 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.209 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058417.D

Acq: 27 Sep 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

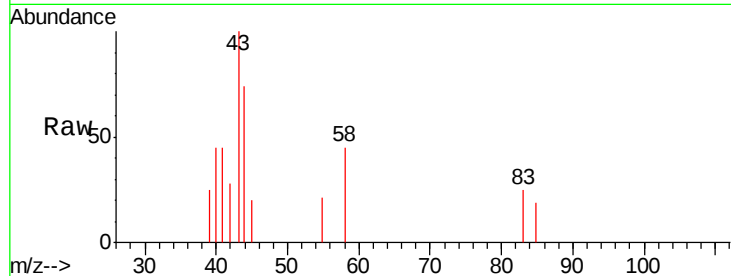
PAT-091019-C

Tgt Ion: 43 Resp: 1179

Ion Ratio Lower Upper

43 100

58 38.5 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

800

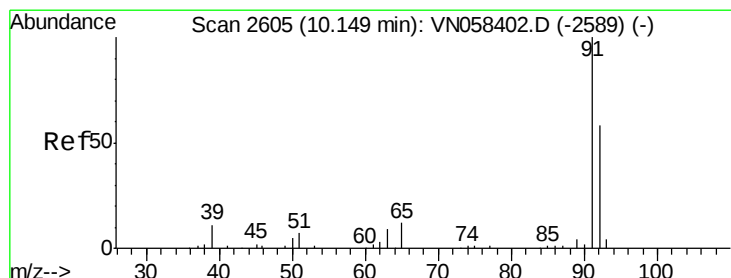
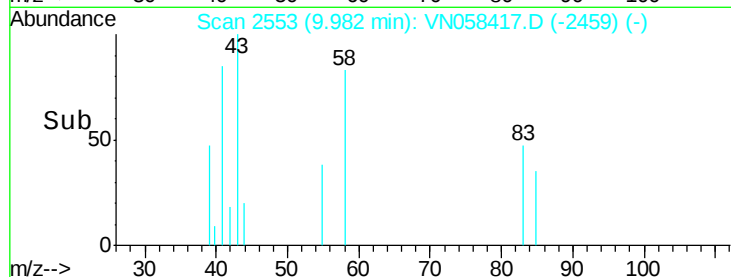
600

400

200

0

Time-->



#52

Toluene

Concen: 0.563 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058417.D

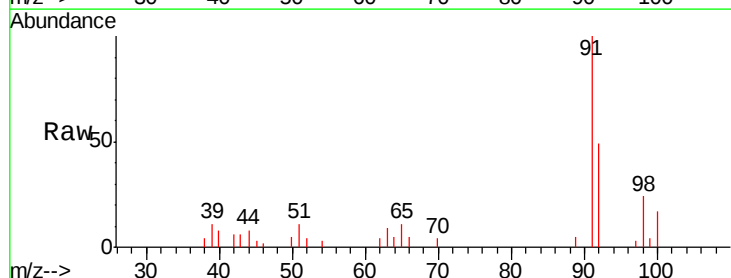
Acq: 27 Sep 2019 18:41

Tgt Ion: 92 Resp: 6126

Ion Ratio Lower Upper

92 100

91 190.0 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

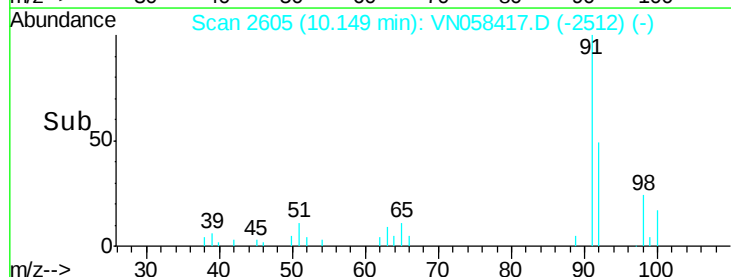
6000

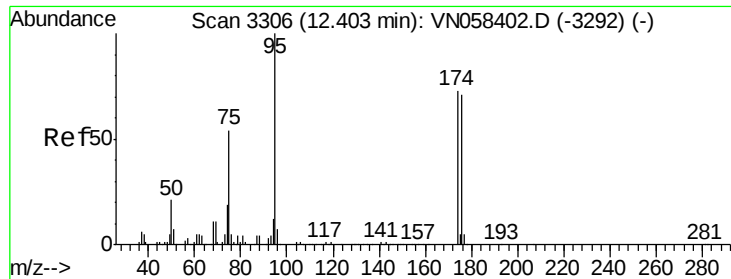
4000

2000

0

Time-->

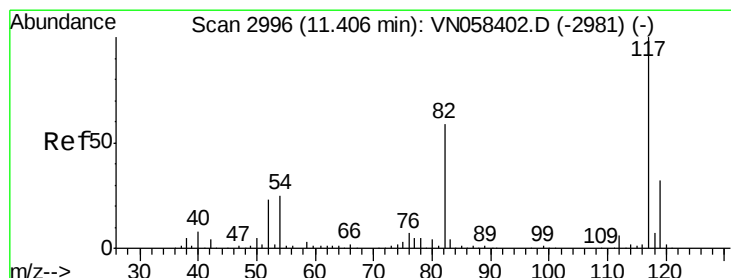
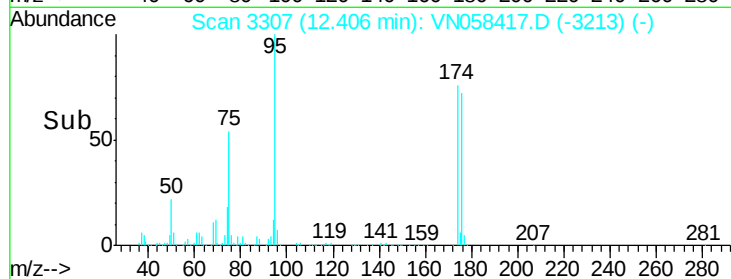
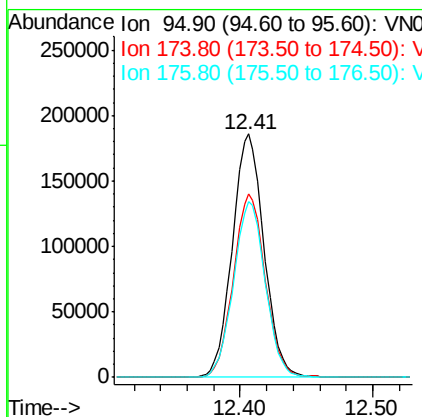
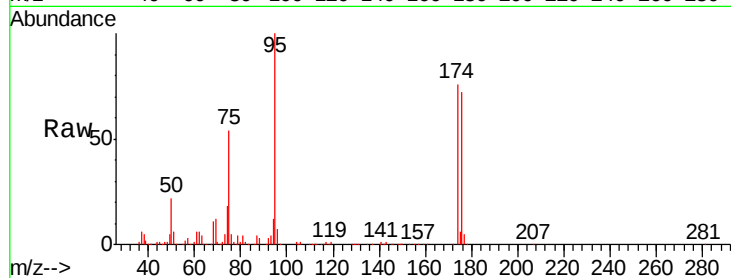




#62
4-Bromofluorobenzene
Concen: 46.429 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058417.D
Acq: 27 Sep 2019 18:41

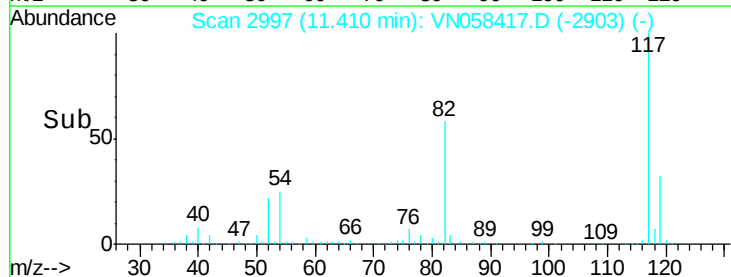
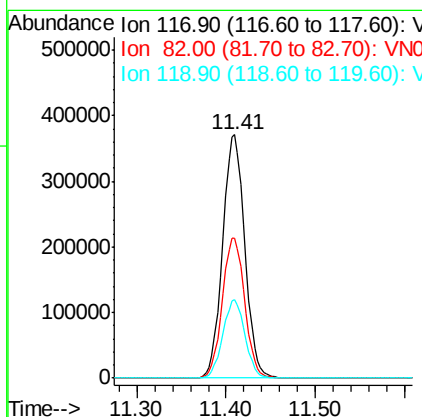
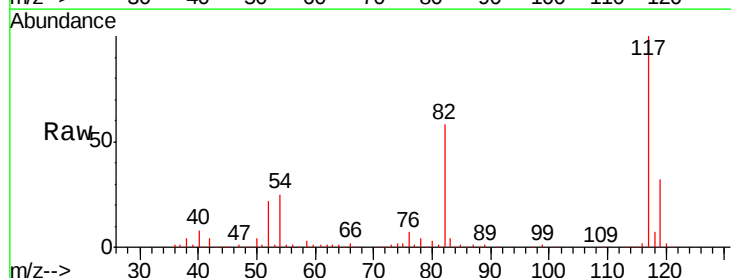
Instrument :
MSVOA_N
ClientSampleId :
PAT-091019-C

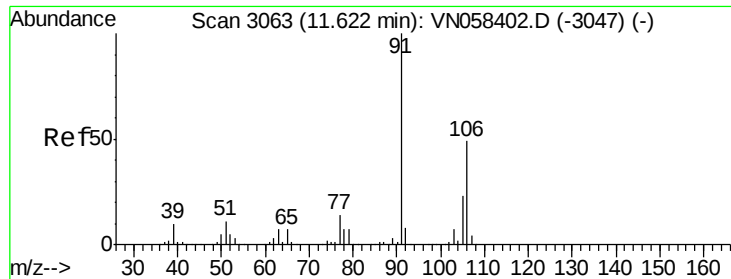
Tgt Ion: 95 Resp: 306729
Ion Ratio Lower Upper
95 100
174 76.3 0.0 150.6
176 73.0 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058417.D
Acq: 27 Sep 2019 18:41

Tgt Ion: 117 Resp: 637254
Ion Ratio Lower Upper
117 100
82 57.6 47.4 71.0
119 32.3 25.5 38.3

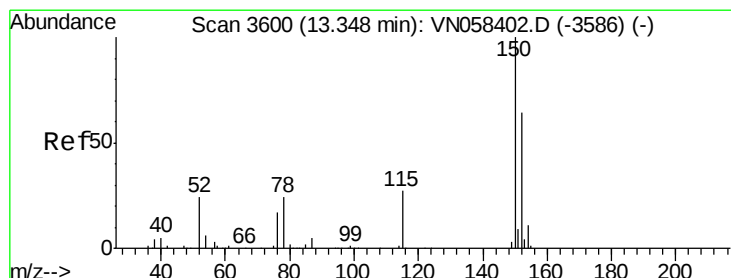
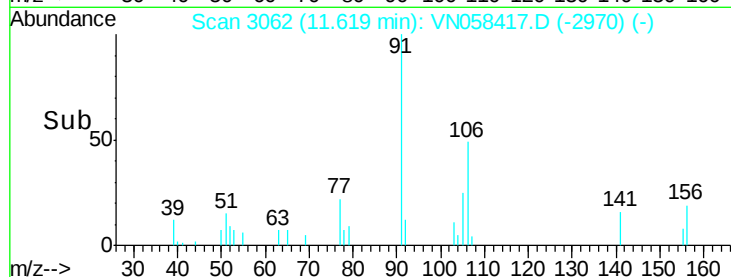
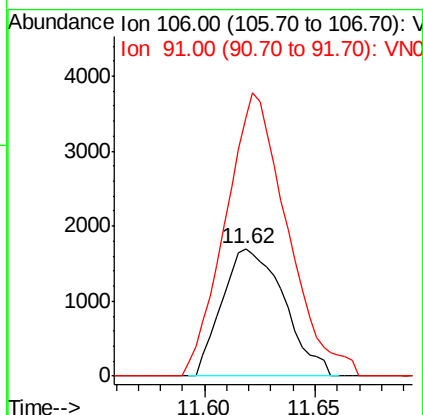
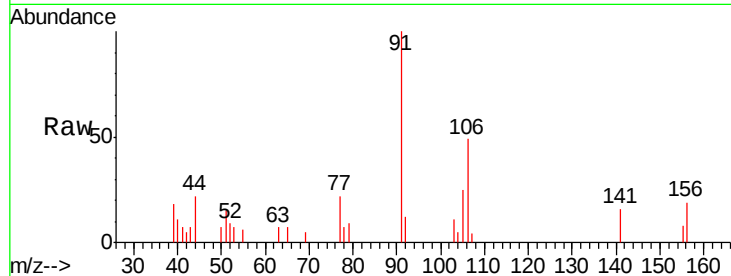




#68
m/p-Xylenes
Concen: 0.441 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN058417.D
Acq: 27 Sep 2019 18:41

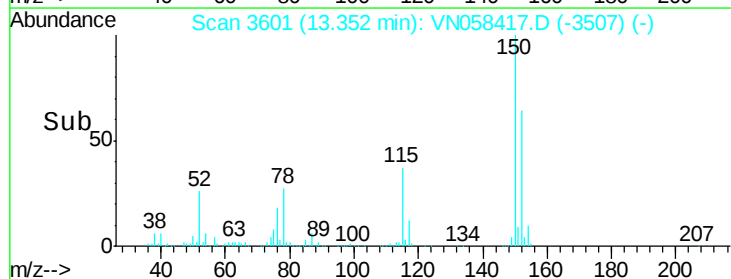
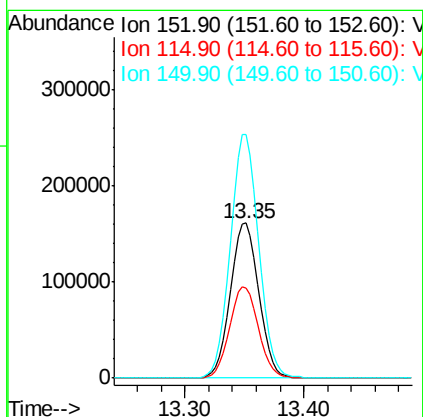
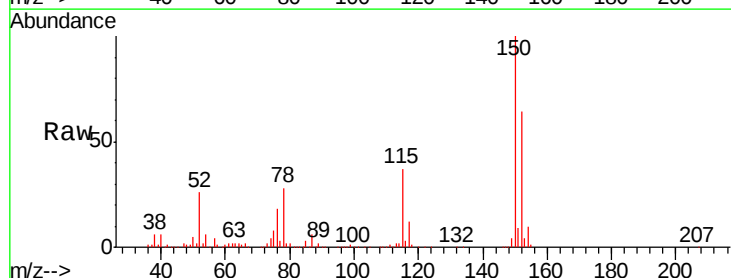
Instrument :
MSVOA_N
ClientSampleId :
PAT-091019-C

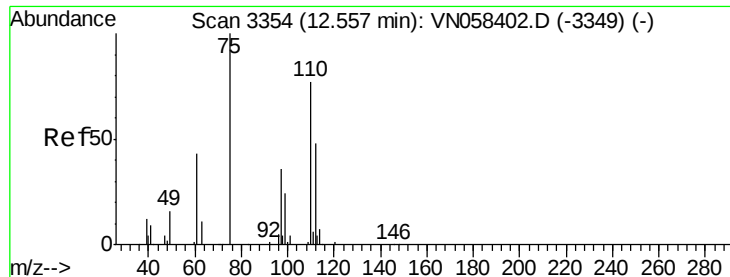
Tgt Ion:106 Resp: 3318
Ion Ratio Lower Upper
106 100
91 221.7 165.0 247.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058417.D
Acq: 27 Sep 2019 18:41

Tgt Ion:152 Resp: 267818
Ion Ratio Lower Upper
152 100
115 59.6 30.0 90.0
150 156.4 0.0 348.2

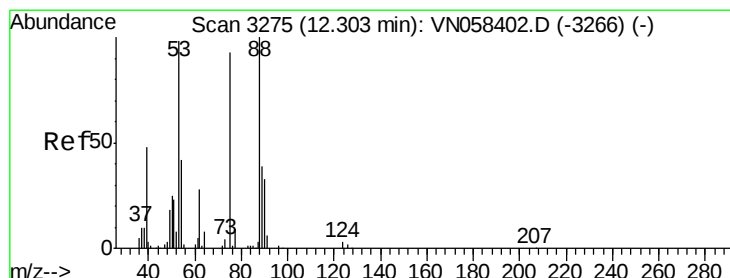
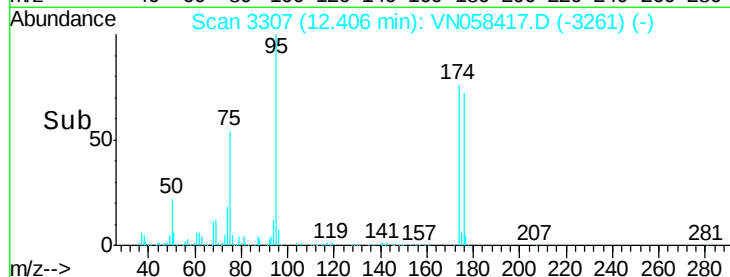
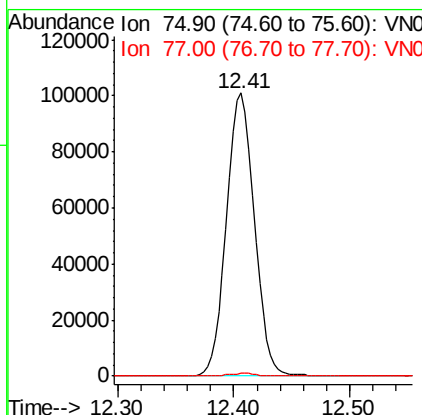
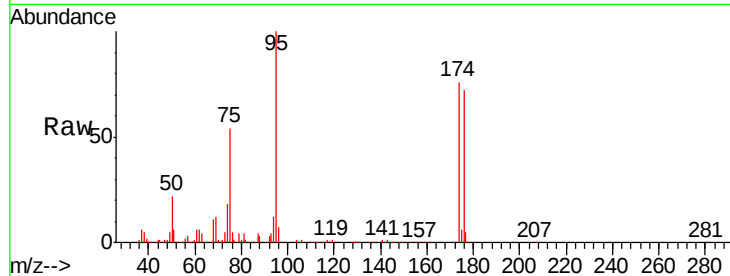




#76
 1,2,3-Trichloropropane
 Concen: 34.567 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

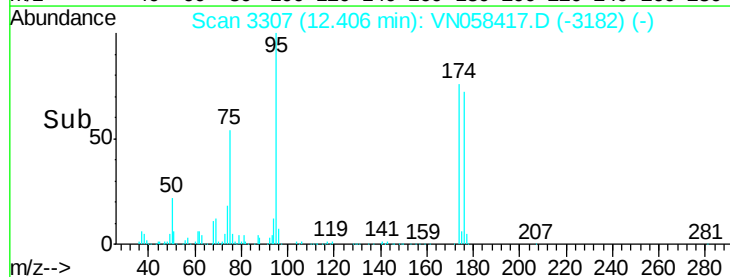
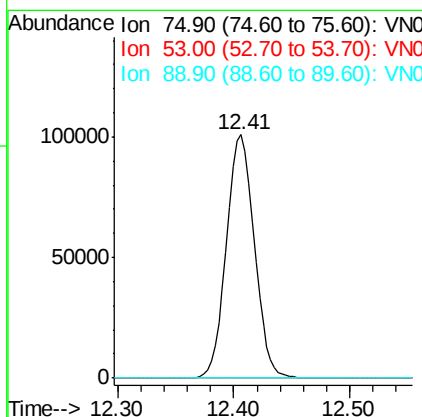
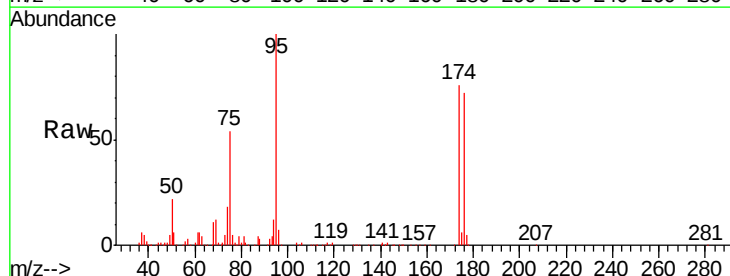
Instrument :
 MSVOA_N
 ClientSampleId :
 PAT-091019-C

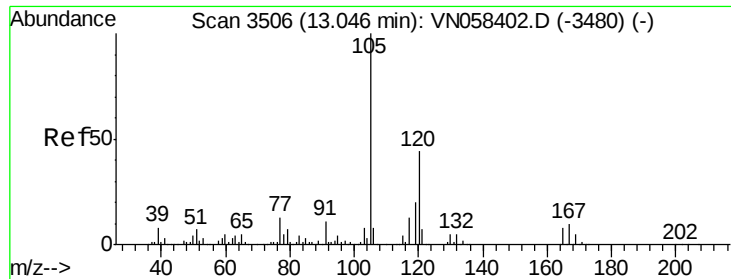
Tgt Ion: 75 Resp: 168053
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 112.381 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

Tgt Ion: 75 Resp: 168053
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.4 128.0#
 89 0.0 35.0 52.4#

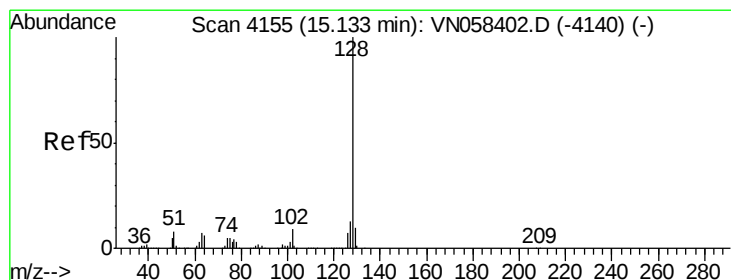
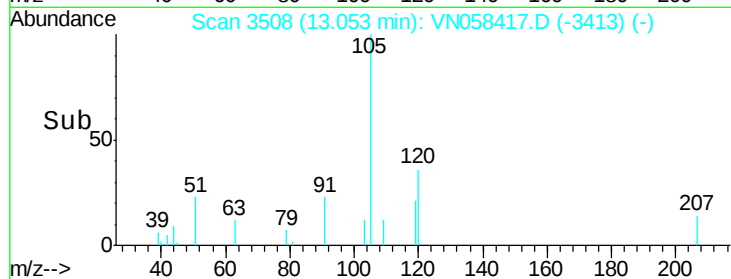
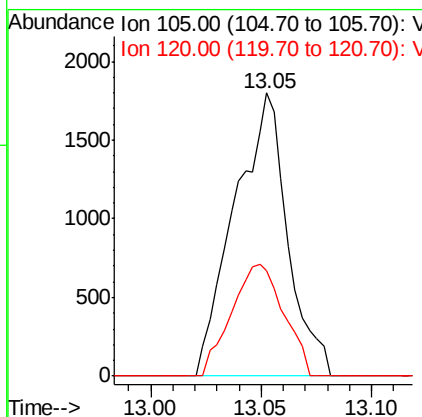
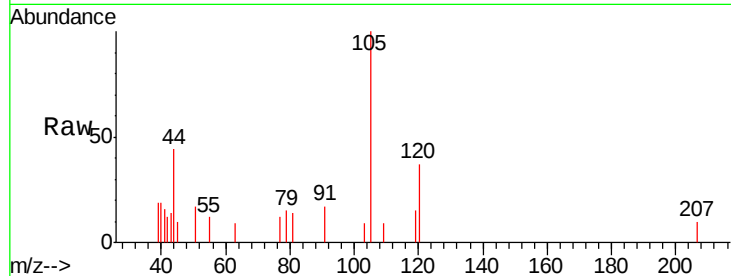




#84
 1,2,4-Trimethylbenzene
 Concen: 0.207 ug/l
 RT: 13.05 min Scan# 3508
 Delta R.T. 0.01 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

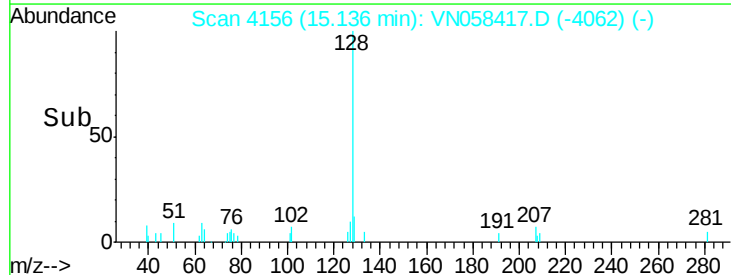
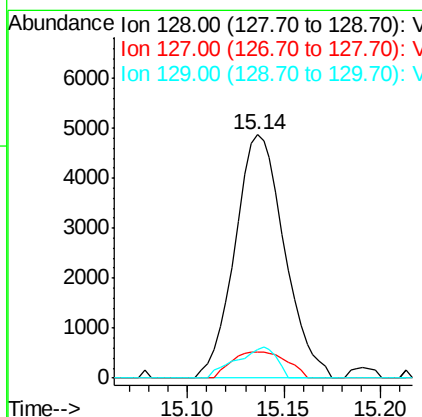
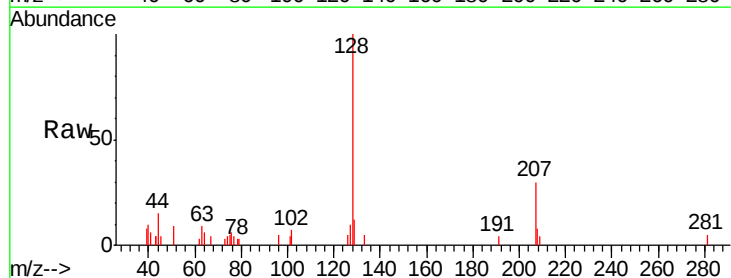
Instrument :
 MSVOA_N
 ClientSampleId :
 PAT-091019-C

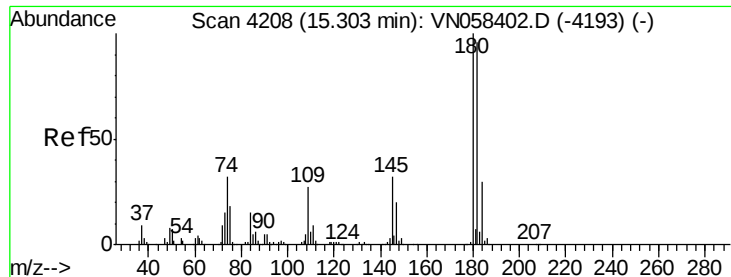
Tgt Ion:105 Resp: 3009
 Ion Ratio Lower Upper
 105 100
 120 38.9 21.7 65.1



#95
 Naphthalene
 Concen: 0.683 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

Tgt Ion:128 Resp: 8664
 Ion Ratio Lower Upper
 128 100
 127 11.8 10.2 15.4
 129 10.4 8.3 12.5

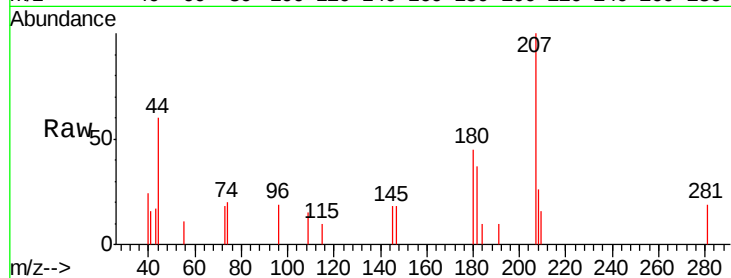




#96
 1,2,3-Trichlorobenzene
 Concen: 0.251 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. -0.00 min
 Lab File: VN058417.D
 Acq: 27 Sep 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 PAT-091019-C

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.0	48.3	144.9
145	0.0	16.1	48.3



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

