

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102119\
 Data File : VN058876.D
 Acq On : 21 Oct 2019 10:43
 Operator : JC/SP
 Sample : K5452-12
 Misc : 5.00mL/MSVOA N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-EX3

Quant Time: Oct 22 03:15:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	444775	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	716239	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	619500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	225650	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	339488	52.04	ug/l	0.00
Spiked Amount						
			Recovery	=	104.08%	
35) Dibromofluoromethane	7.57	113	242679	51.53	ug/l	0.00
Spiked Amount						
			Recovery	=	103.06%	
50) Toluene-d8	10.08	98	930639	50.91	ug/l	0.00
Spiked Amount						
			Recovery	=	101.82%	
62) 4-Bromofluorobenzene	12.40	95	299831	44.66	ug/l	0.00
Spiked Amount						
			Recovery	=	89.32%	

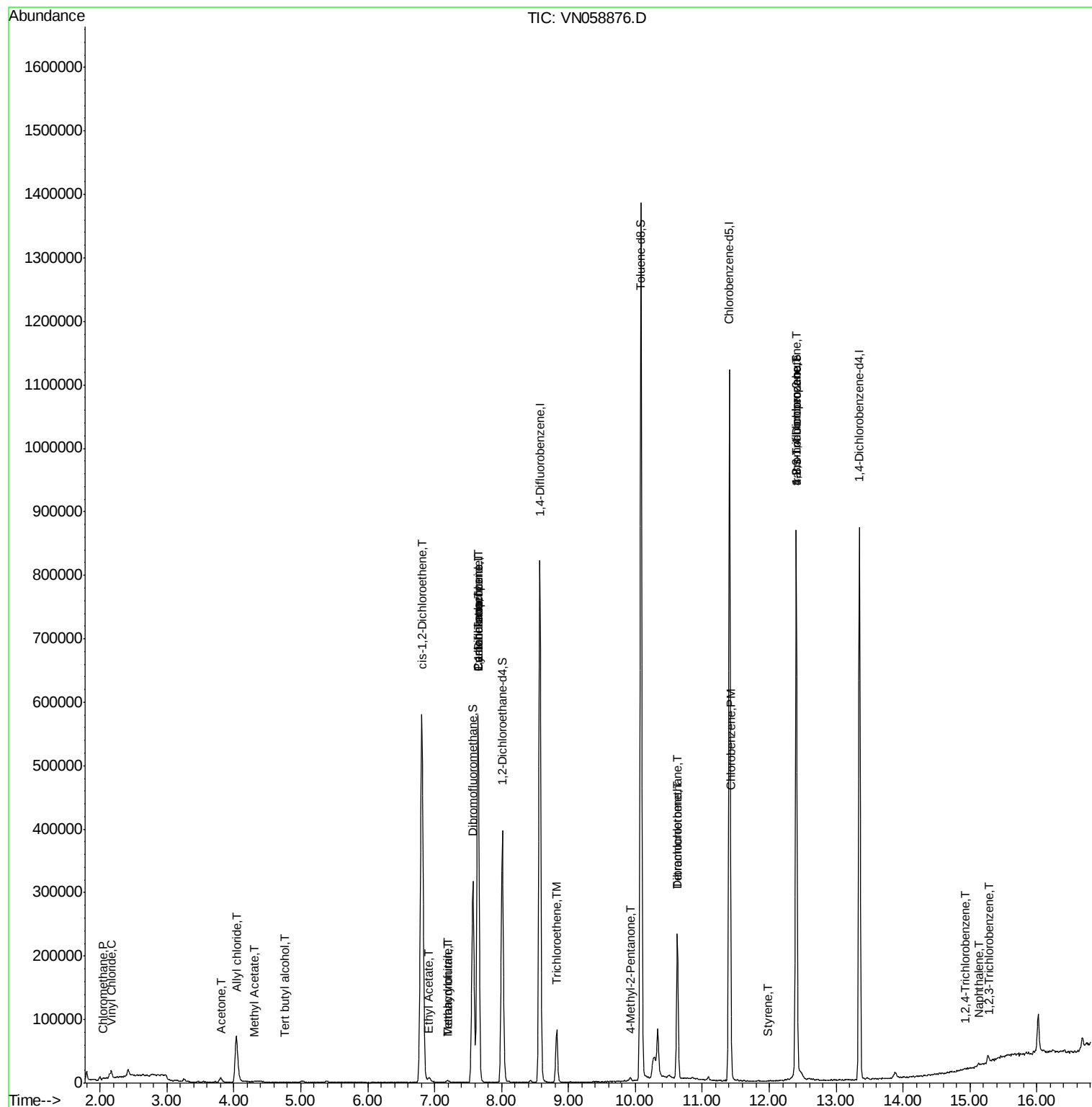
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2017	0.294	ug/l	96
4) Vinyl Chloride	2.17	62	6415	0.941	ug/l	97
11) Tert butyl alcohol	4.76	59	415	0.383	ug/l #	72
14) Allyl chloride	4.04	41	11209	1.263	ug/l #	75
16) Acetone	3.80	43	11412	3.540	ug/l	97
18) Methyl Acetate	4.31	43	1503	0.205	ug/l #	63
27) cis-1,2-Dichloroethene	6.81	96	370874	67.047	ug/l	89
29) Tetrahydrofuran	7.20	42	2114	0.826	ug/l #	70
31) Cyclohexane	7.65	56	10951	1.168	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	38335	5.228	ug/l #	50
37) Ethyl Acetate	6.92	43	10447	1.308	ug/l #	76
38) Carbon Tetrachloride	7.65	117	45645	6.042	ug/l #	17
41) Methacrylonitrile	7.19	41	844	0.237	ug/l #	100
44) Trichloroethene	8.82	130	29516	5.627	ug/l	100
51) 4-Methyl-2-Pentanone	9.92	43	2528	0.338	ug/l #	38
60) Dibromochloromethane	10.63	129	48940	8.644	ug/l #	10
64) Tetrachloroethene	10.63	164	50200	11.571	ug/l	100
65) Chlorobenzene	11.43	112	3504	0.278	ug/l	96
70) Styrene	11.98	104	94	1.720	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	159466	30.492	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159466	79.435	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	378	2.600	ug/l #	67
95) Naphthalene	15.13	128	705	2.277	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	289	2.457	ug/l #	84

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

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Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

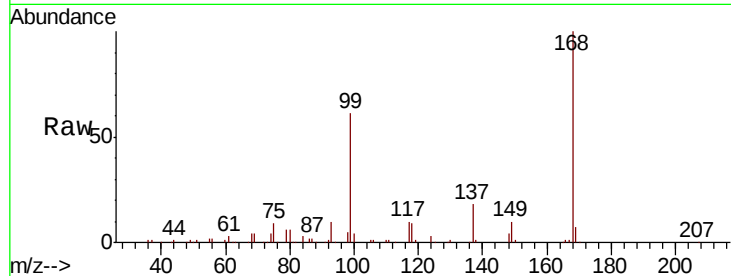
FA19-EX3

Tot Ion:168 Resp: 444775

Ion Ratio Lower Upper

168 100

99 61.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

100000

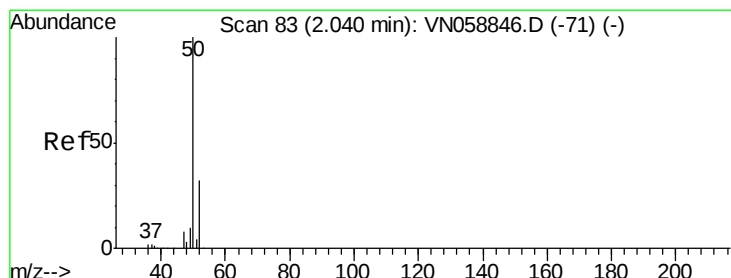
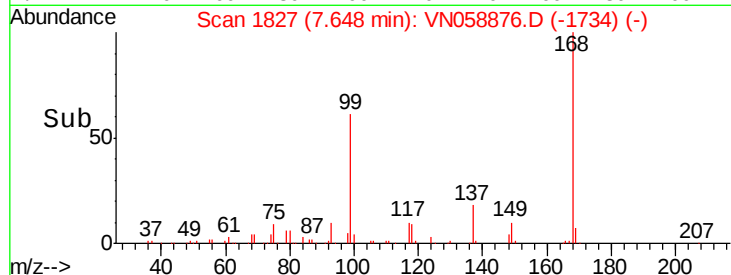
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: 0.294 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058876.D

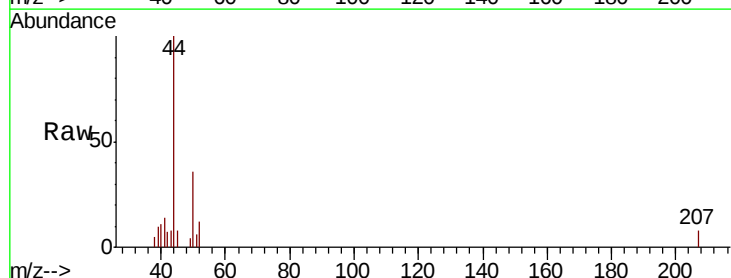
Acq: 21 Oct 2019 10:43

Tgt Ion: 50 Resp: 2017

Ion Ratio Lower Upper

50 100

52 34.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

500

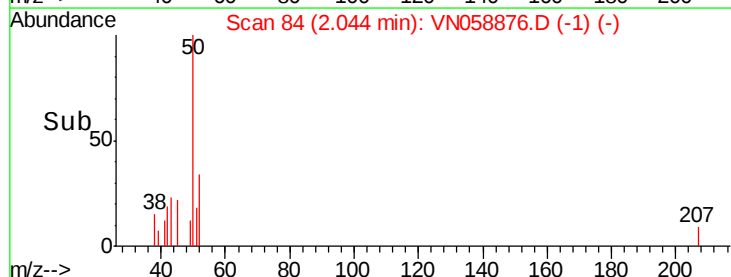
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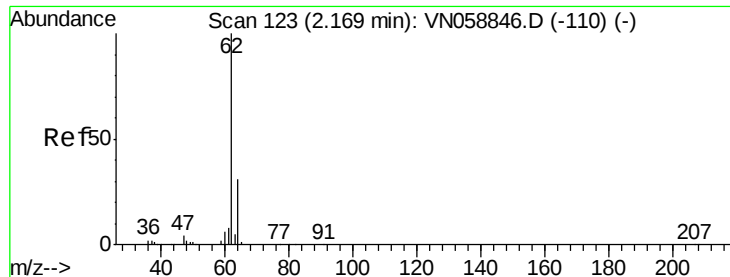
2.00

2.05

2.10

Time-->





#4

Vinyl Chloride

Concen: 0.941 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

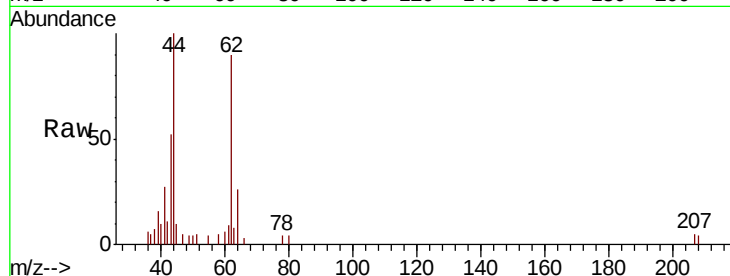
FA19-EX3

Tot Ion: 62 Resp: 6415

Ion Ratio Lower Upper

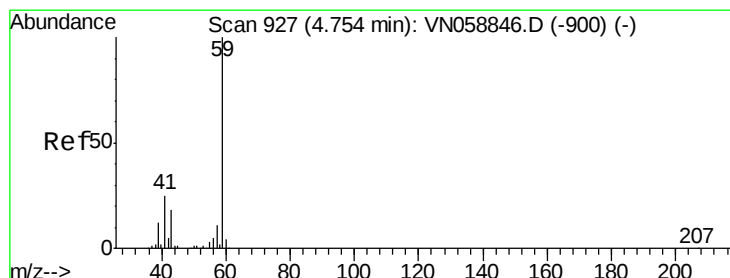
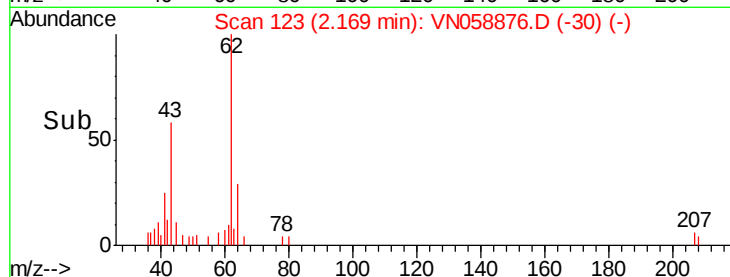
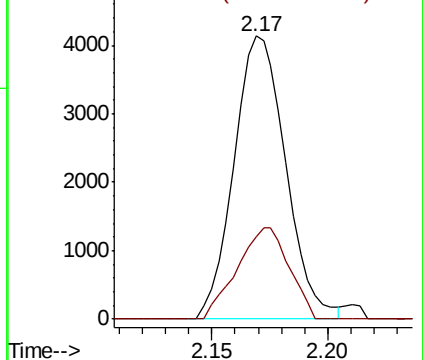
62 100

64 29.3 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#11

Tert butyl alcohol

Concen: 0.383 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.01 min

Lab File: VN058876.D

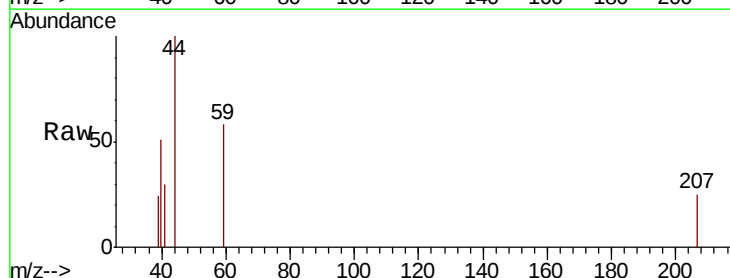
Acq: 21 Oct 2019 10:43

Tgt Ion: 59 Resp: 415

Ion Ratio Lower Upper

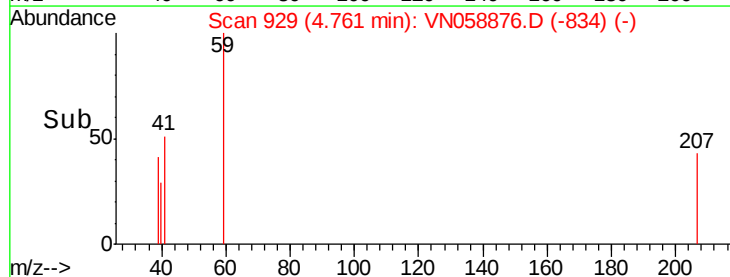
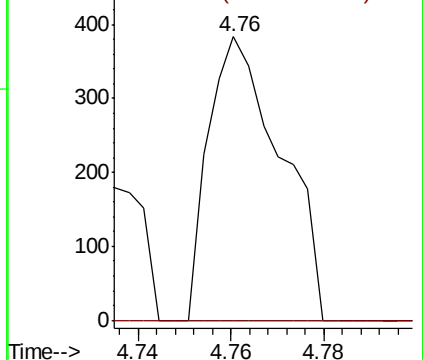
59 100

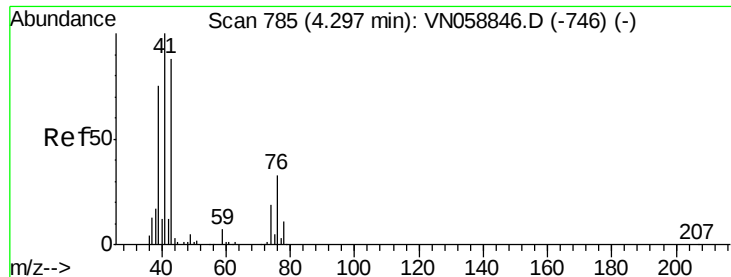
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

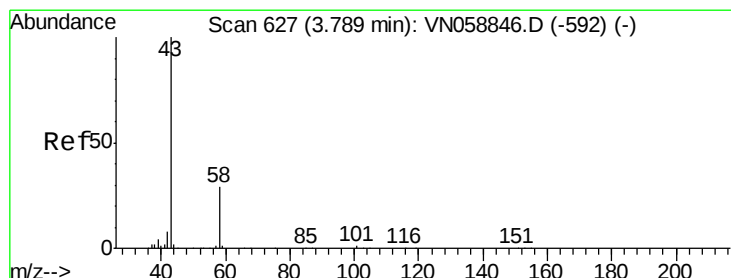
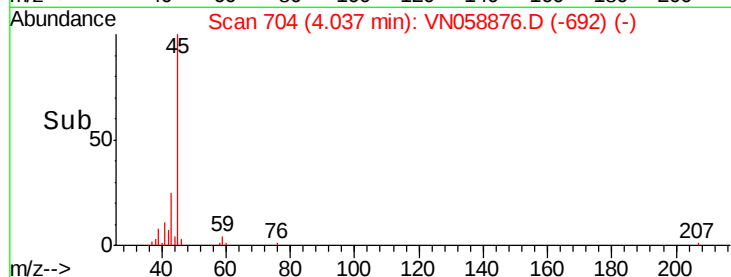
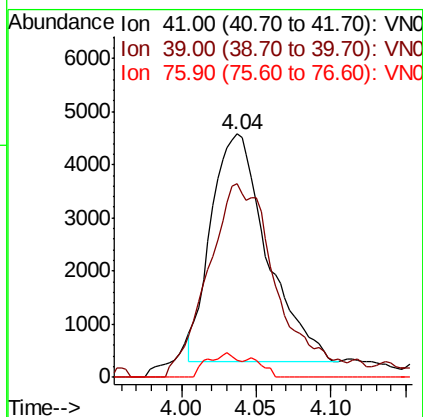
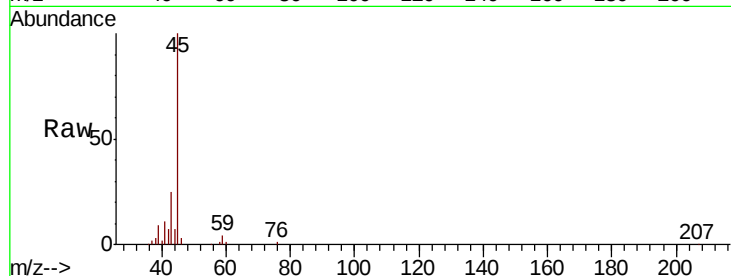




#14
 Allvl chloride
 Concen: 1.263 ug/l
 RT: 4.04 min Scan# 704
 Delta R.T. -0.26 min
 Lab File: VN058876.D
 Acq: 21 Oct 2019 10:43

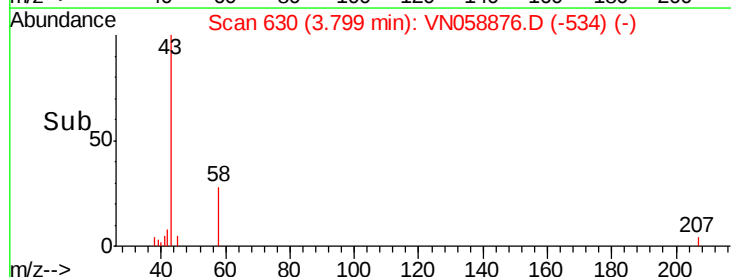
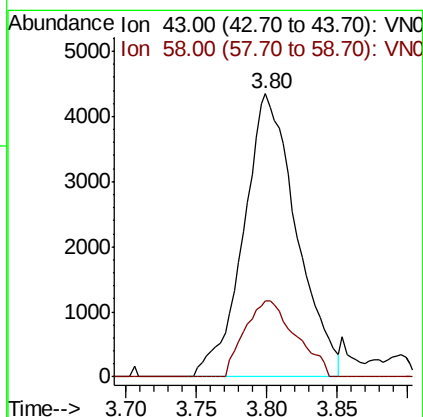
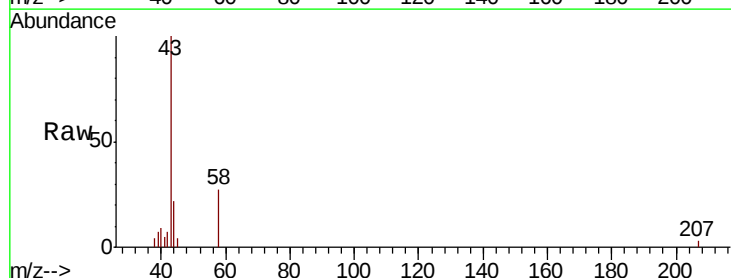
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-EX3

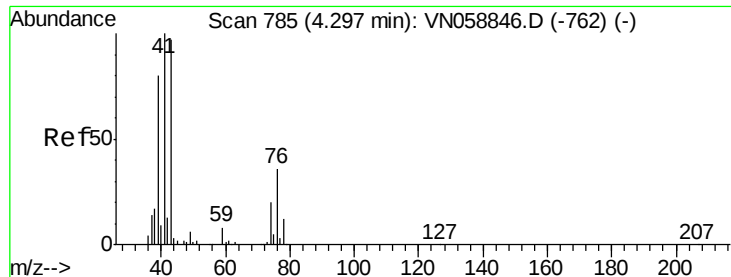
Tot Ion: 41 Resp: 11209
 Ion Ratio Lower Upper
 41 100
 39 83.8 55.9 83.9
 76 5.9 24.1 36.1#



#16
 Acetone
 Concen: 3.540 ug/l
 RT: 3.80 min Scan# 630
 Delta R.T. 0.01 min
 Lab File: VN058876.D
 Acq: 21 Oct 2019 10:43

Tgt Ion: 43 Resp: 11412
 Ion Ratio Lower Upper
 43 100
 58 27.0 23.1 34.7





#18

Methyl Acetate

Concen: 0.205 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.02 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampled :

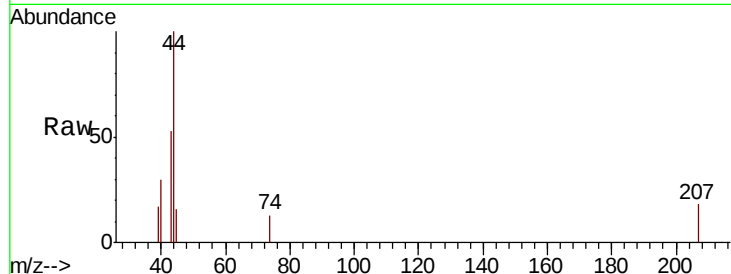
FA19-EX3

Tot Ion: 43 Resp: 1503

Ion Ratio Lower Upper

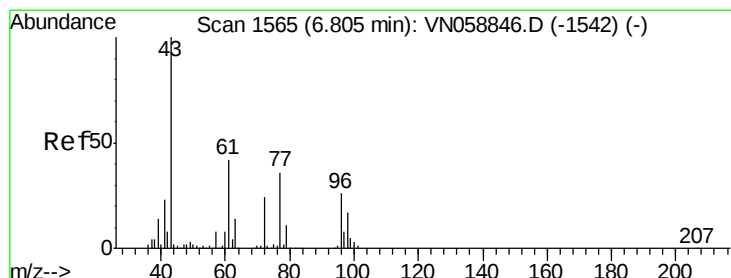
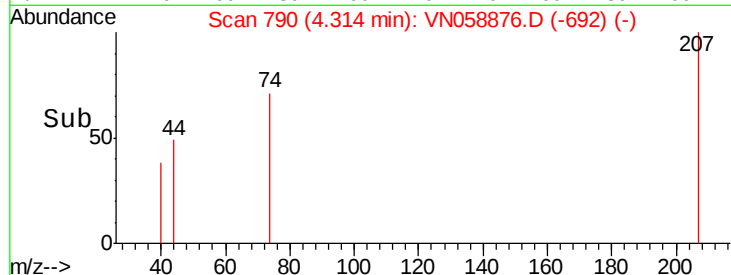
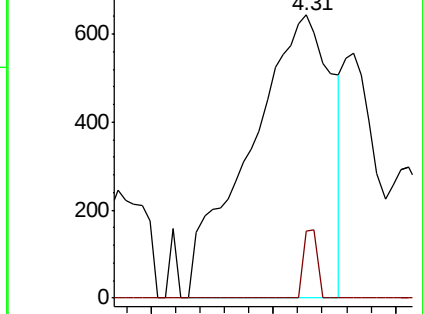
43 100

74 4.0 17.1 25.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#27

cis-1,2-Dichloroethene

Concen: 67.047 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

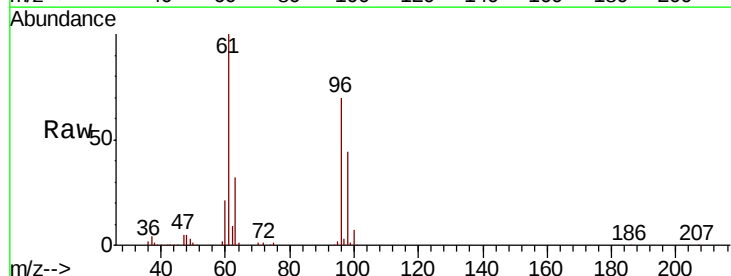
Tgt Ion: 96 Resp: 370874

Ion Ratio Lower Upper

96 100

61 143.3 0.0 325.0

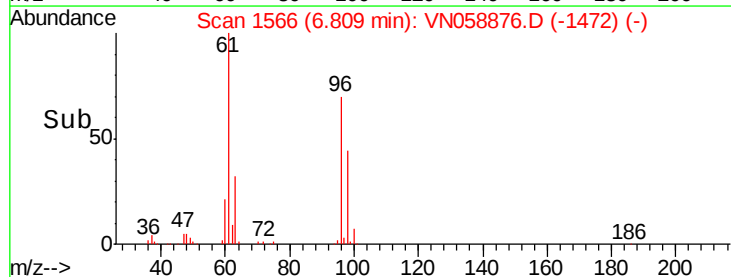
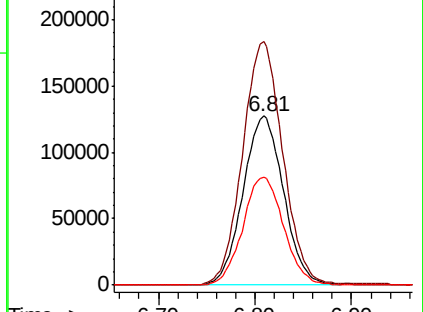
98 64.5 0.0 128.0

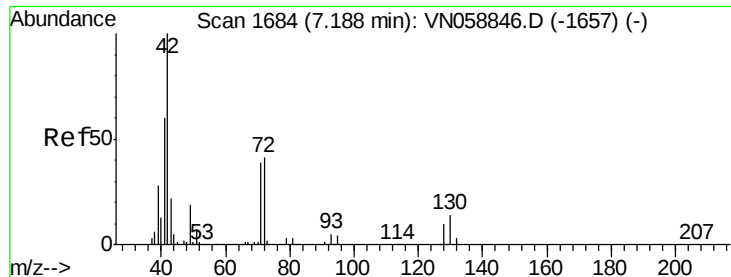


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#29

Tetrahydrofuran

Concen: 0.826 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampled :

FA19-EX3

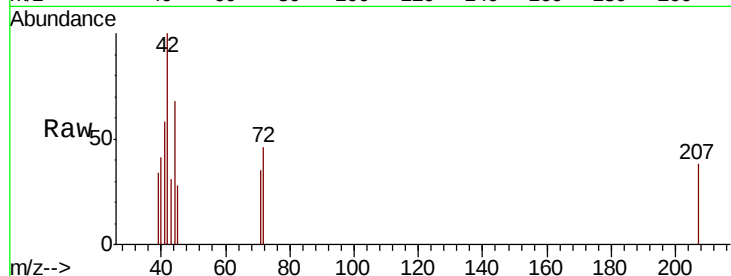
Tot Ion: 42 Resp: 2114

Ion Ratio Lower Upper

42 100

72 17.6 32.2 48.2#

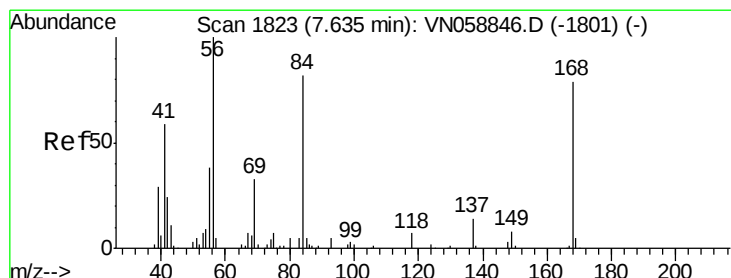
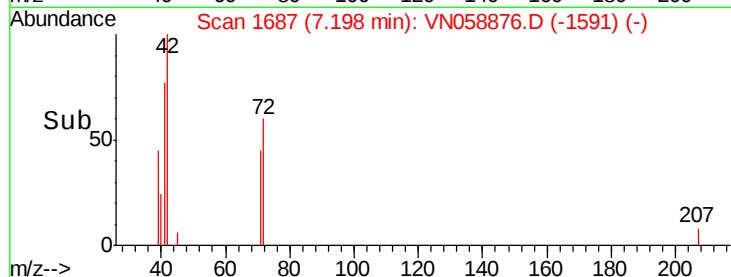
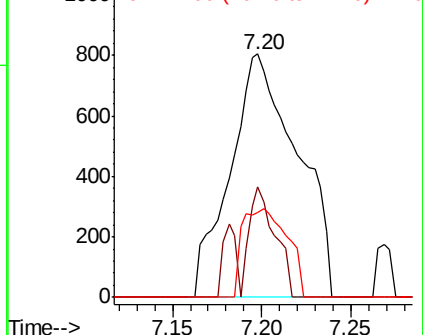
71 24.3 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.168 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

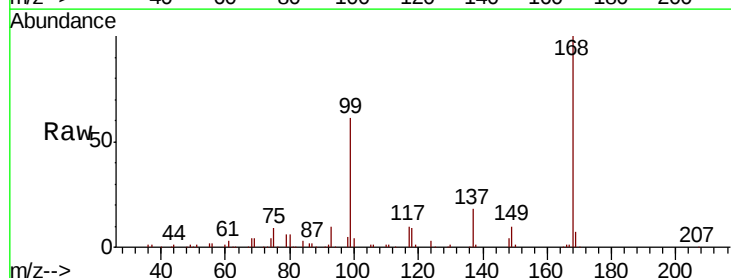
Tgt Ion: 56 Resp: 10951

Ion Ratio Lower Upper

56 100

69 175.1 26.2 39.4#

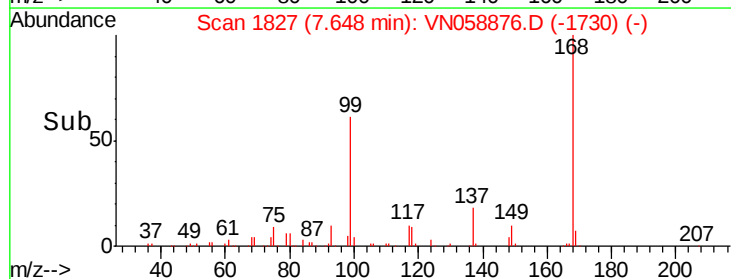
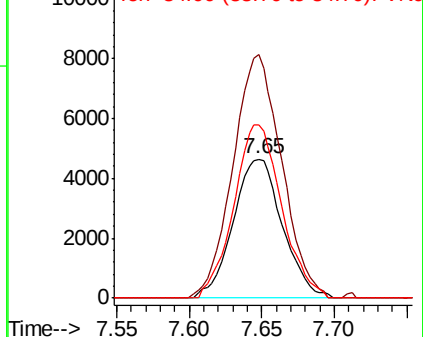
84 124.6 65.6 98.4#

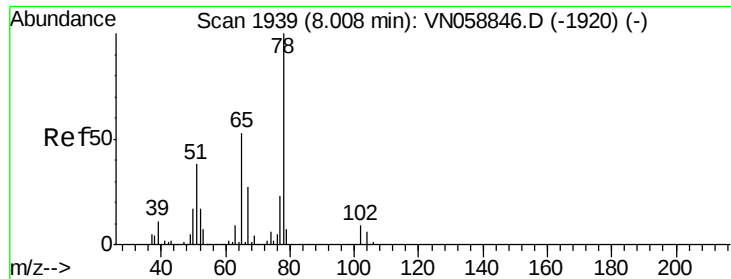


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

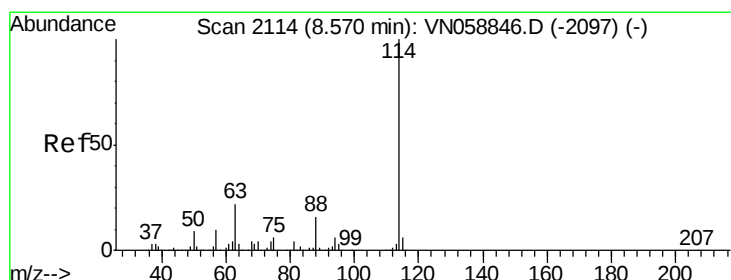
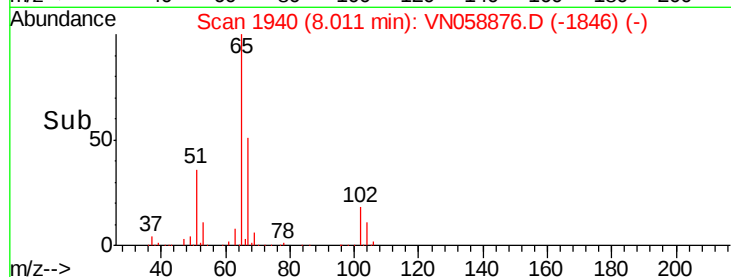
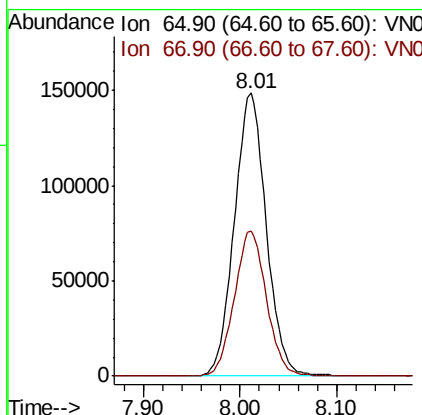
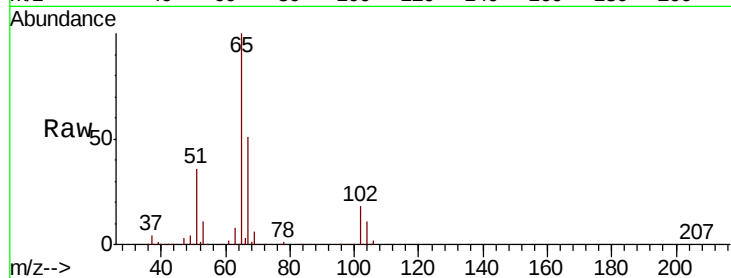




#33
 1,2-Dichloroethane-d4
 Concen: 52.042 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058876.D
 Acq: 21 Oct 2019 10:43

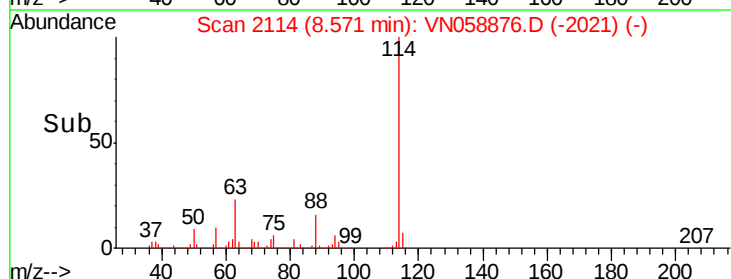
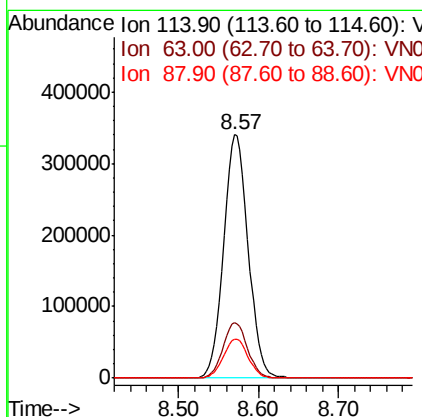
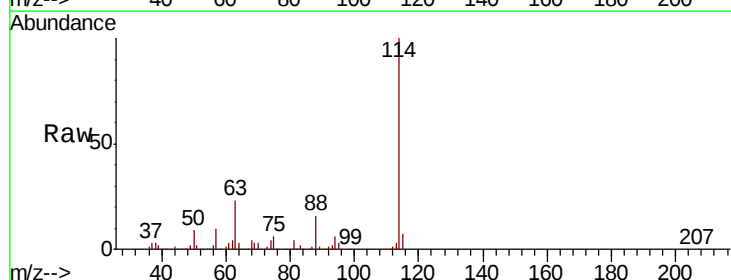
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-EX3

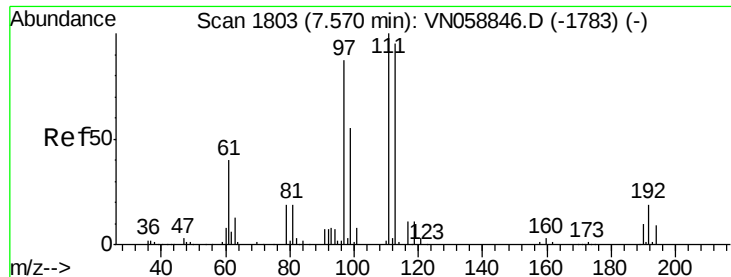
Tot Ion: 65 Resp: 339488
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058876.D
 Acq: 21 Oct 2019 10:43

Tgt Ion: 114 Resp: 716239
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.4
 88 16.0 0.0 31.4

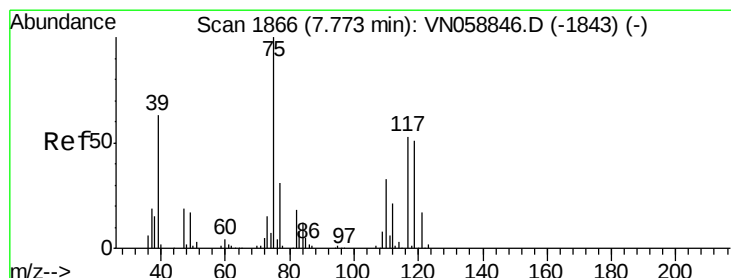
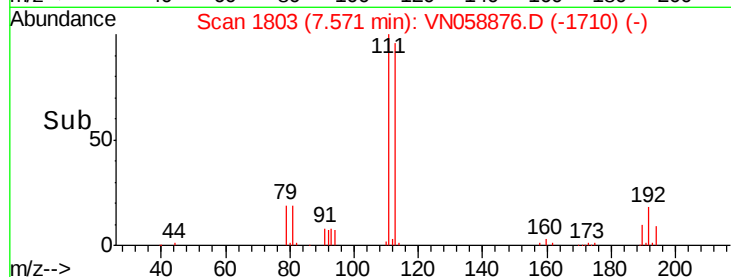
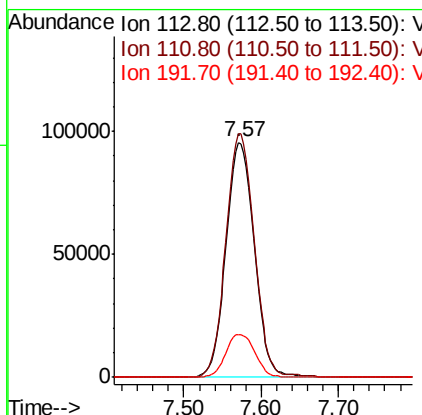
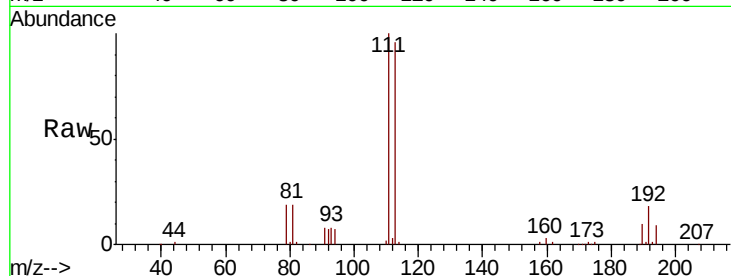




#35
Dibromofluoromethane
Concen: 51.534 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

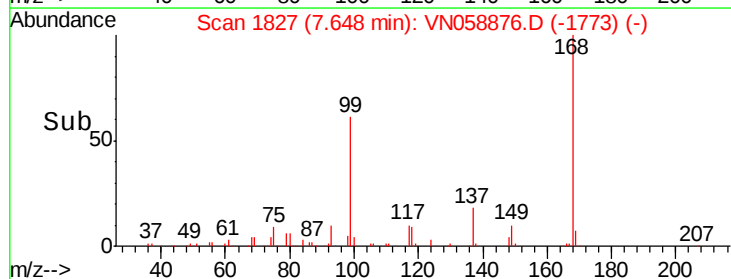
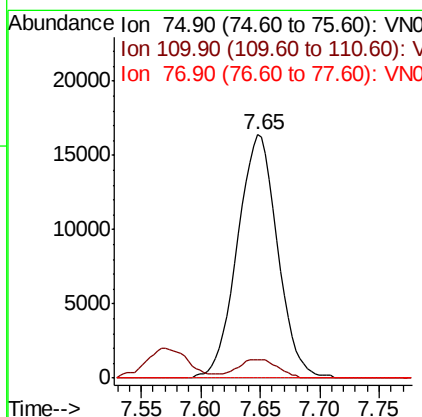
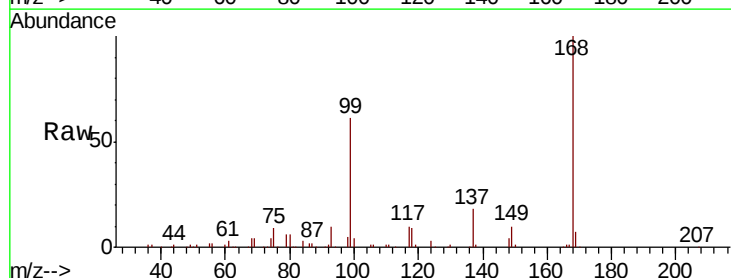
Instrument :
MSVOA_N
ClientSampleId :
FA19-EX3

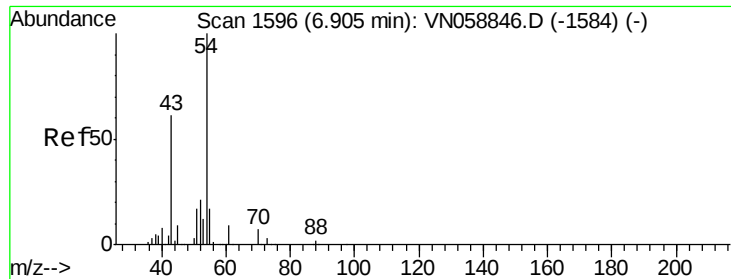
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.0	123.0
192	18.8	15.0	22.6



#36
1,1-Dichloropropene
Concen: 5.228 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.3	48.9#
77	0.0	24.6	36.8#

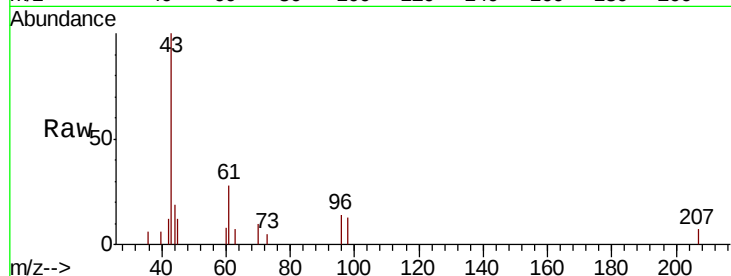




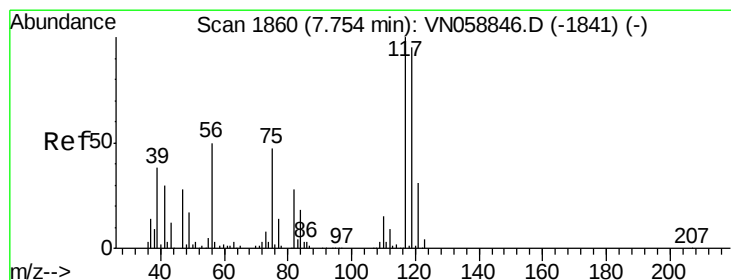
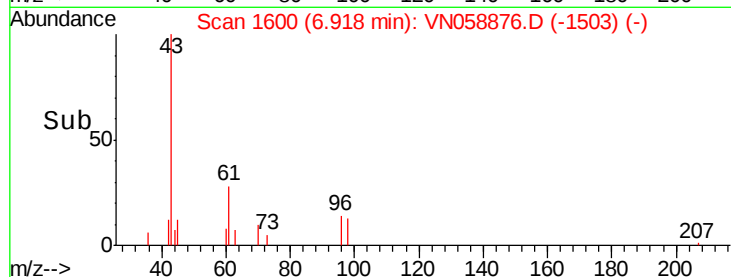
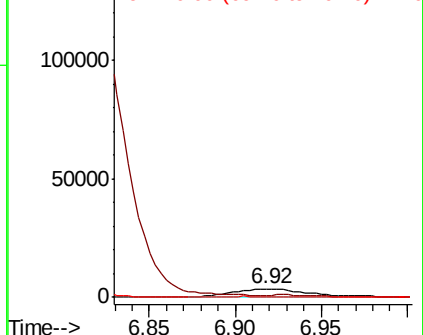
#37
Ethyl Acetate
Concen: 1.308 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

Instrument :
MSVOA_N
ClientSampled :
FA19-EX3

Tot Ion: 43 Resp: 10447
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 4.9 7.6 11.4#

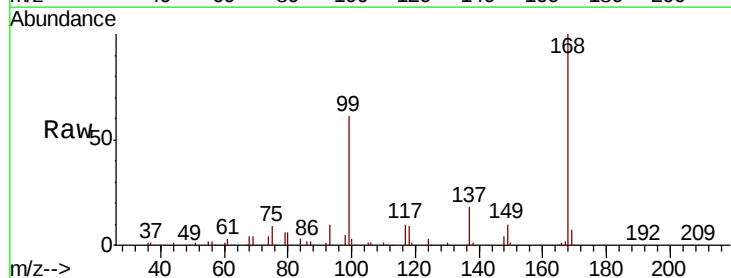


Abundance Ion 43.00 (42.70 to 43.70): VN058876.D
Ion 60.90 (60.60 to 61.60): VN058876.D
Ion 70.00 (69.70 to 70.70): VN058876.D

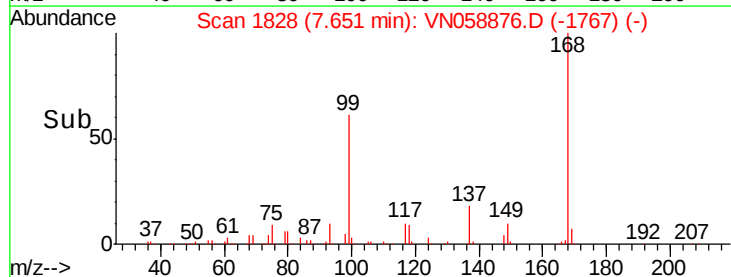
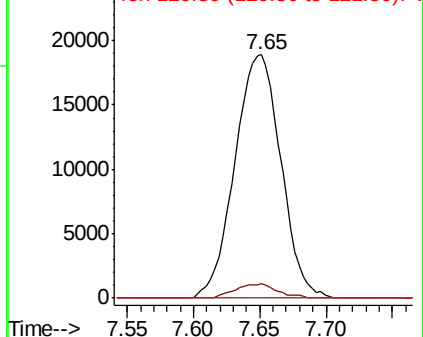


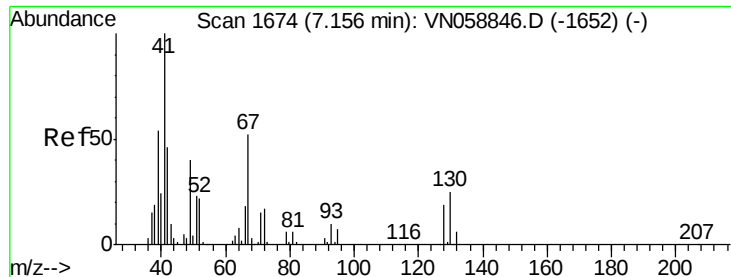
#38
Carbon Tetrachloride
Concen: 6.042 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.10 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

Tgt Ion: 117 Resp: 45645
Ion Ratio Lower Upper
117 100
119 6.0 75.7 113.5#
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VN058876.D
Ion 118.80 (118.50 to 119.50): VN058876.D
Ion 120.80 (120.50 to 121.50): VN058876.D

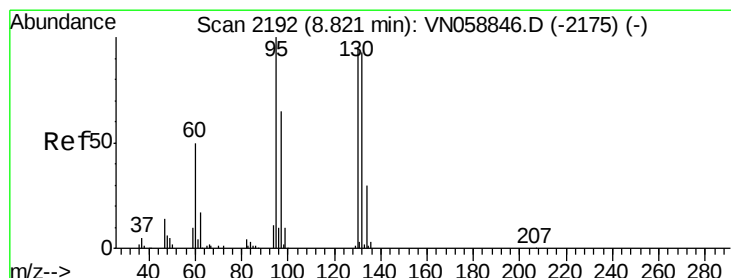
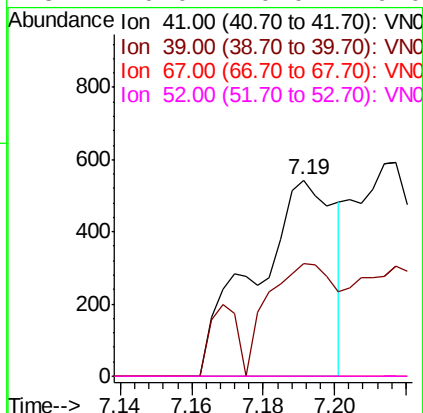
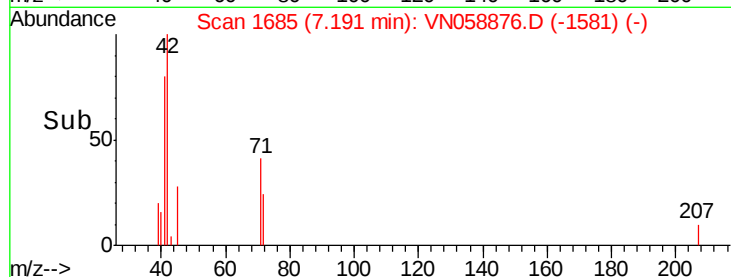
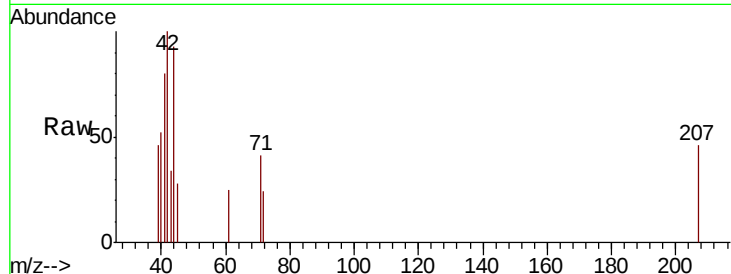




#41
Methacrylonitrile
Concen: 0.237 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.04 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

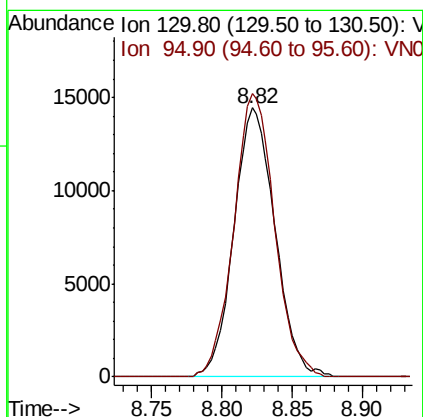
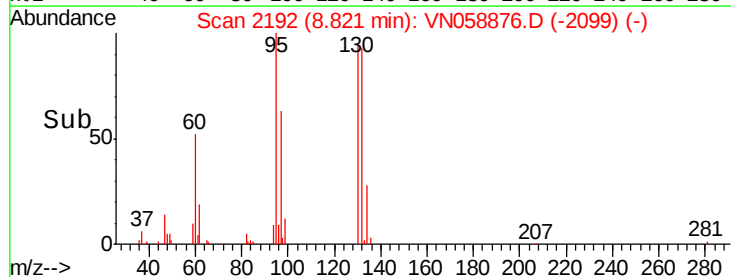
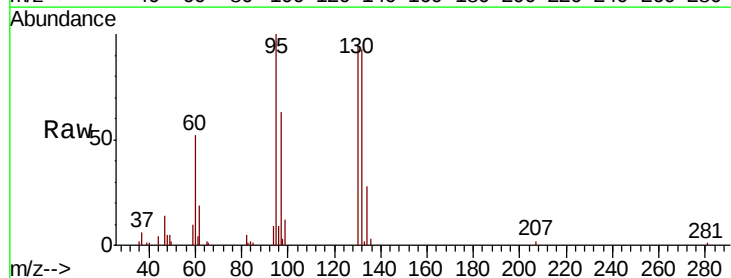
Instrument :
MSVOA_N
ClientSampleId :
FA19-EX3

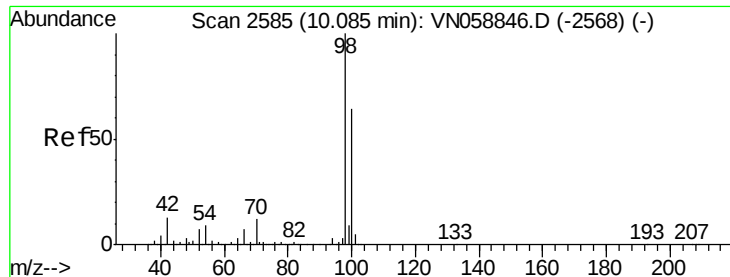
Tot Ion:	41	Resp:	844
Ion	Ratio	Lower	Upper
41	100		
39	47.5	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#44
Trichloroethene
Concen: 5.627 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

Tgt Ion:	130	Resp:	29516
Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	209.6





#50

Toluene-d8

Concen: 50.910 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

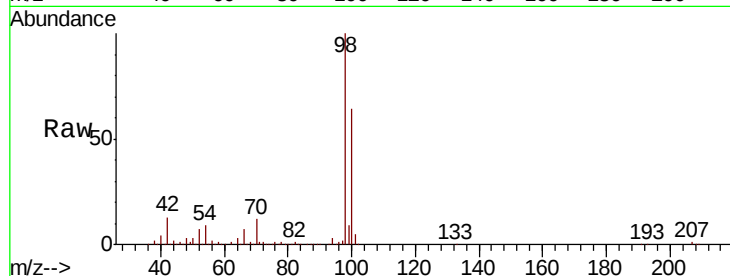
FA19-EX3

Tot Ion: 98 Resp: 930639

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058846.D (-2568) (-)

10.08

600000

500000

400000

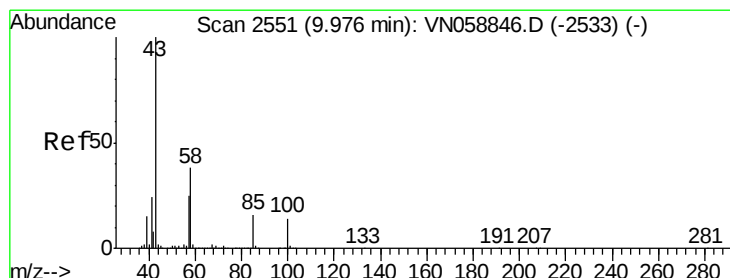
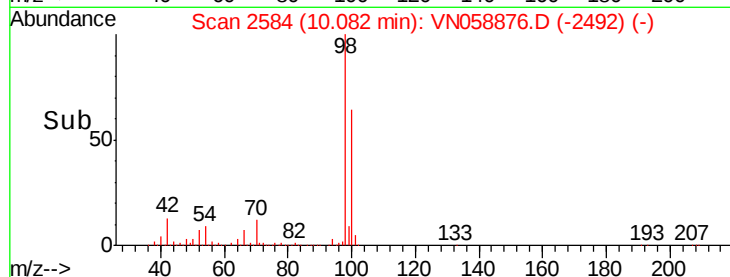
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.338 ug/l

RT: 9.92 min Scan# 2533

Delta R.T. -0.06 min

Lab File: VN058876.D

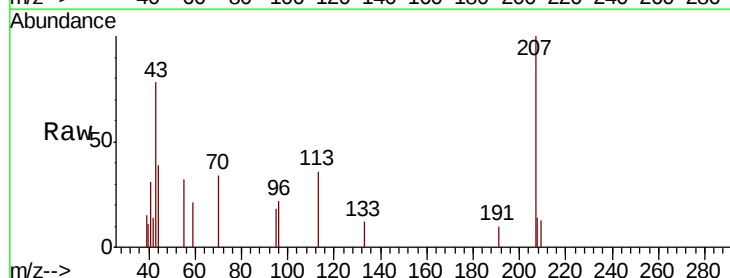
Acq: 21 Oct 2019 10:43

Tgt Ion: 43 Resp: 2528

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-2533) (-)

9.92

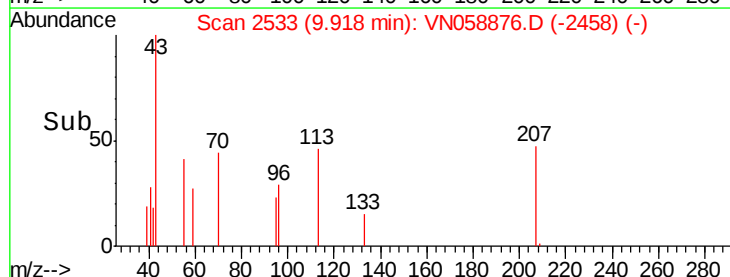
1500

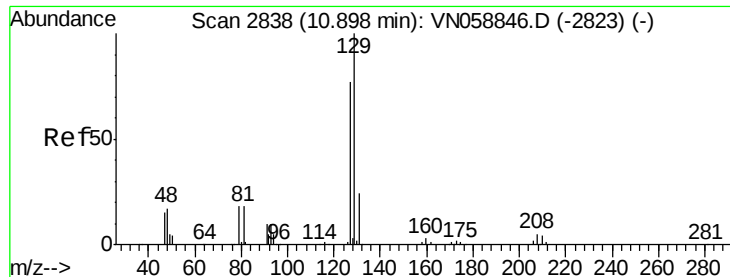
1000

500

0

Time-->

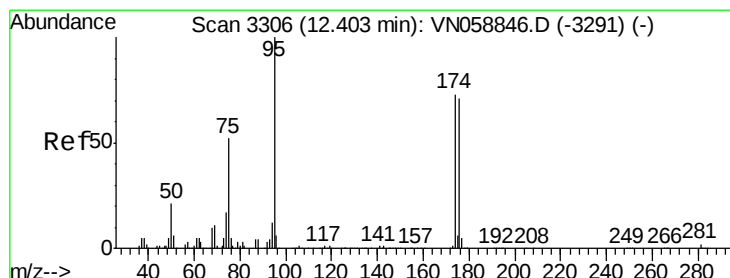
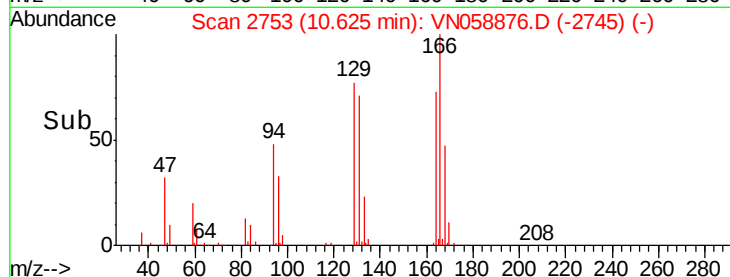
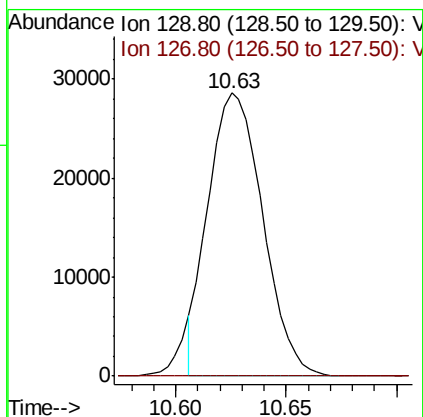
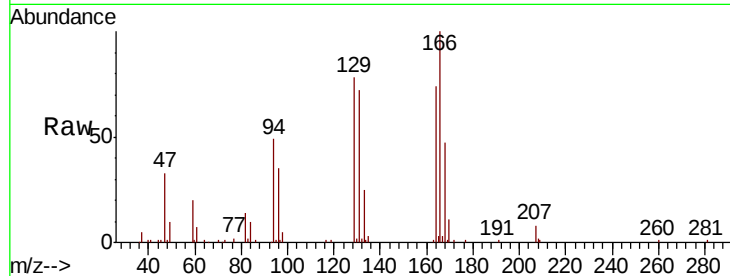




#60
 Dibromochloromethane
 Concen: 8.644 ug/l
 RT: 10.63 min Scan# 2753
 Delta R.T. -0.27 min
 Lab File: VN058876.D
 Acq: 21 Oct 2019 10:43

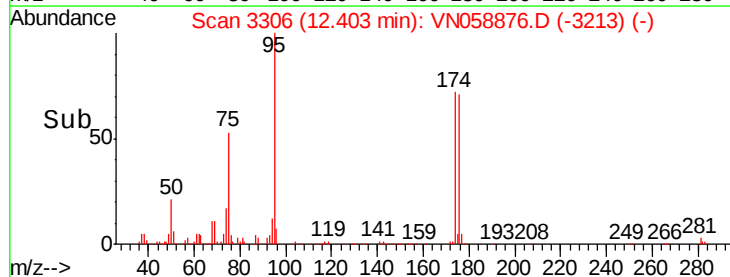
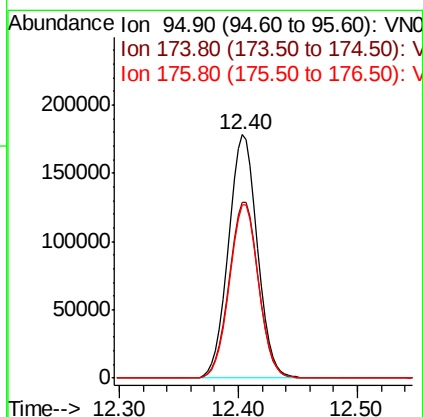
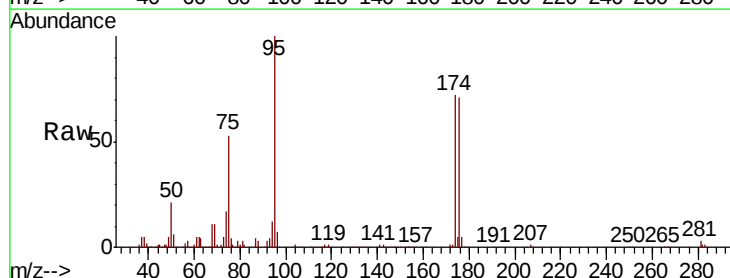
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-EX3

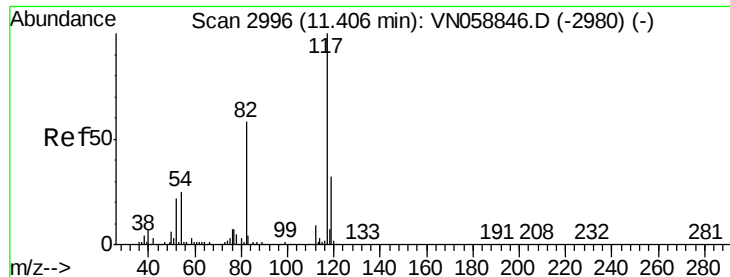
Tot Ion:129 Resp: 48940
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#



#62
 4-Bromofluorobenzene
 Concen: 44.665 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058876.D
 Acq: 21 Oct 2019 10:43

Tgt Ion: 95 Resp: 299831
 Ion Ratio Lower Upper
 95 100
 174 73.6 0.0 147.6
 176 72.0 0.0 143.2

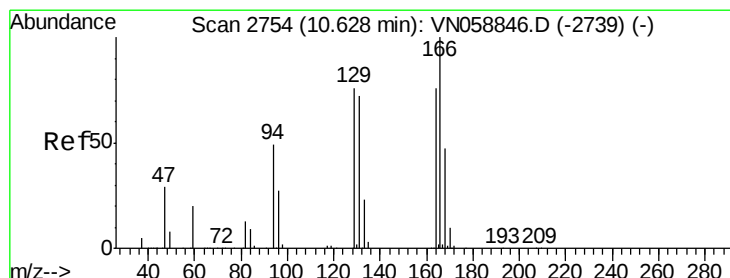
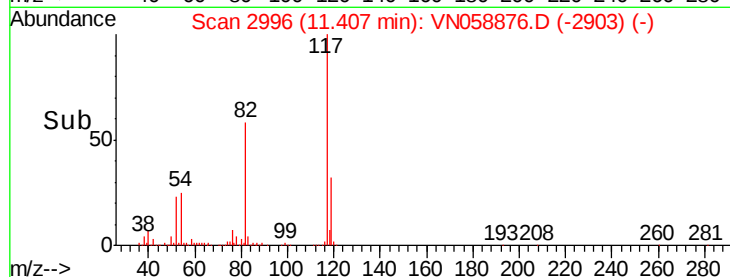
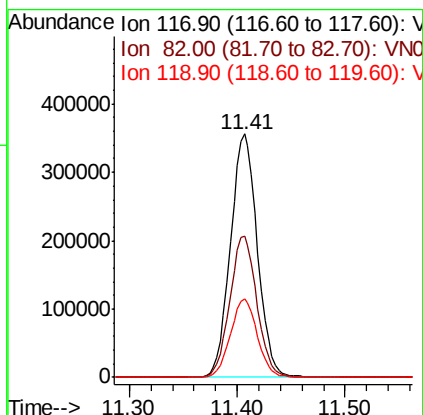
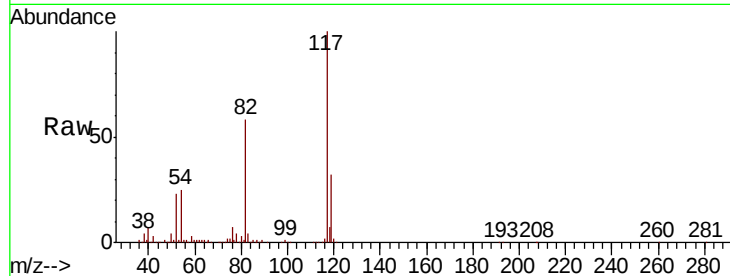




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

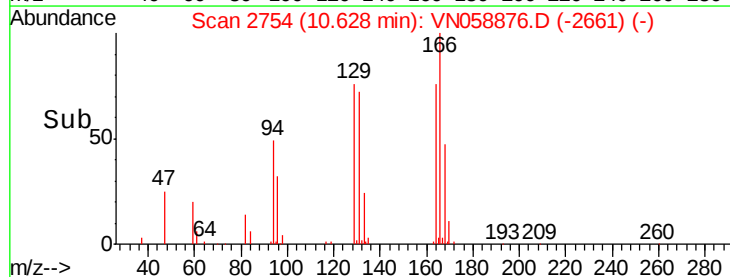
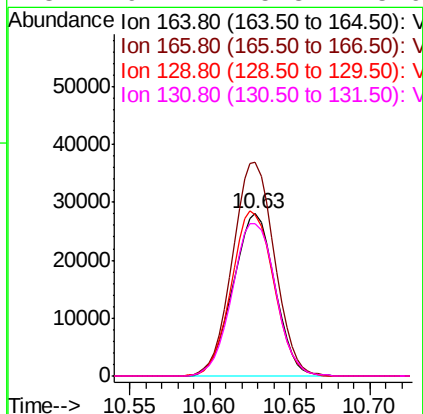
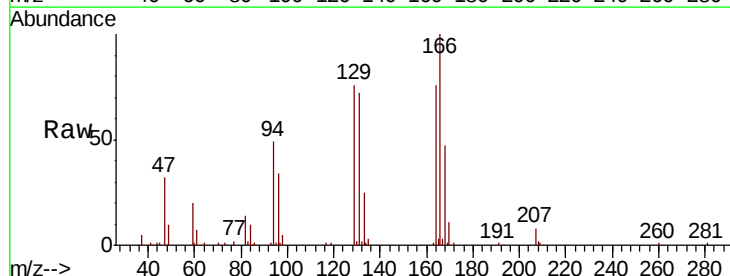
Instrument :
MSVOA_N
ClientSampleId :
FA19-EX3

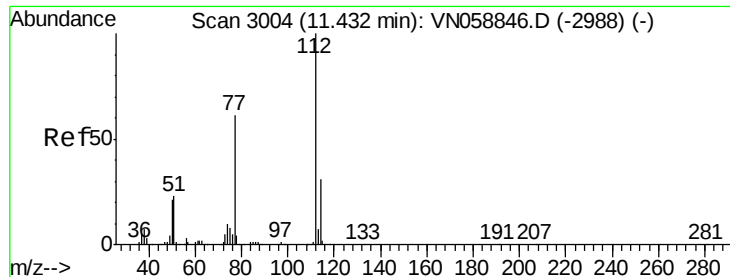
Tot Ion:117 Resp: 619500
Ion Ratio Lower Upper
117 100
82 58.2 46.6 69.8
119 32.2 25.6 38.4



#64
Tetrachloroethene
Concen: 11.571 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

Tgt Ion:164 Resp: 50200
Ion Ratio Lower Upper
164 100
166 131.4 104.8 157.2
129 99.5 79.3 118.9
131 94.1 75.8 113.6

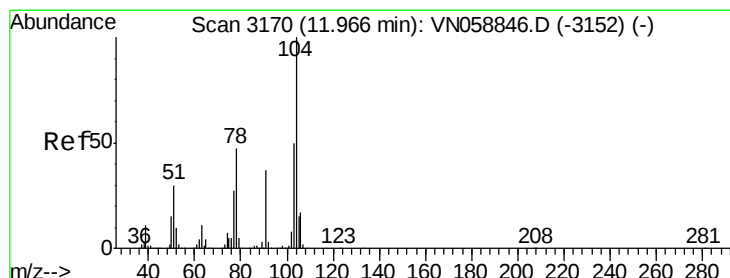
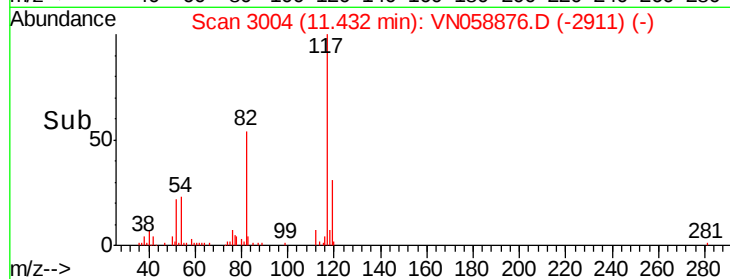
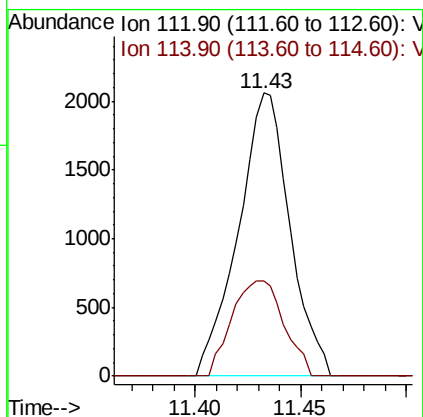
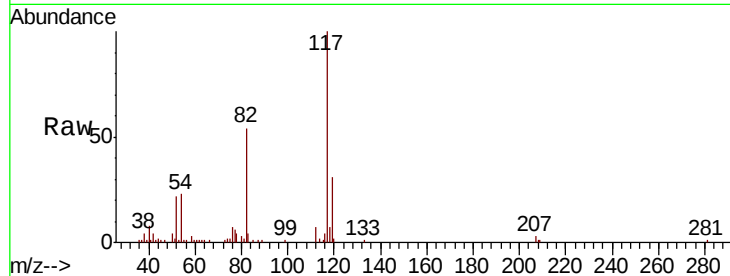




#65
Chlorobenzene
Concen: 0.278 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

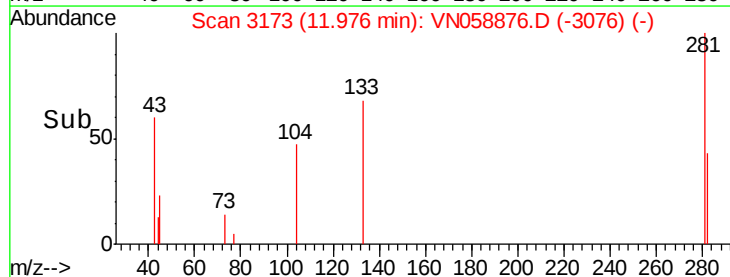
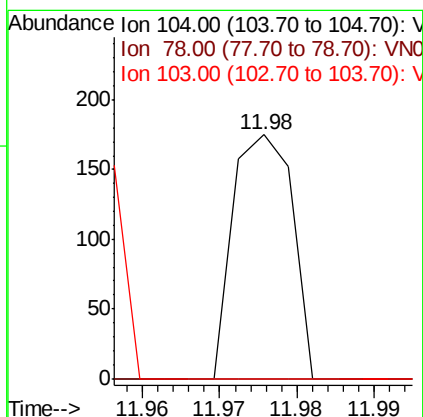
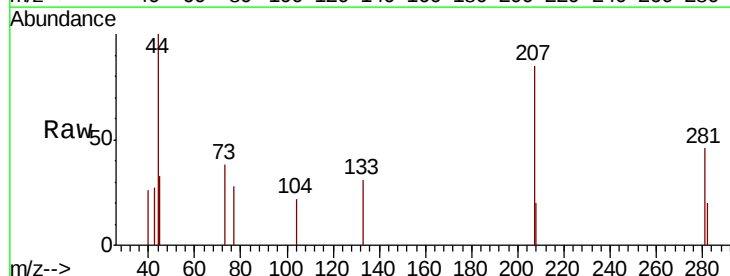
Instrument :
MSVOA_N
ClientSampled :
FA19-EX3

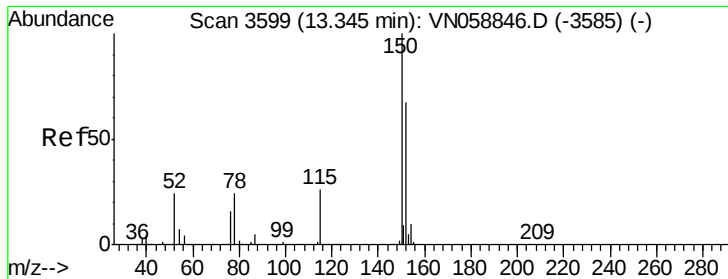
Tot Ion:112 Resp: 3504
Ion Ratio Lower Upper
112 100
114 33.6 25.1 37.7



#70
Styrene
Concen: 1.720 ug/l
RT: 11.98 min Scan# 3173
Delta R.T. 0.01 min
Lab File: VN058876.D
Acq: 21 Oct 2019 10:43

Tgt Ion:104 Resp: 94
Ion Ratio Lower Upper
104 100
78 0.0 42.8 64.2#
103 31.9 44.3 66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

FA19-EX3

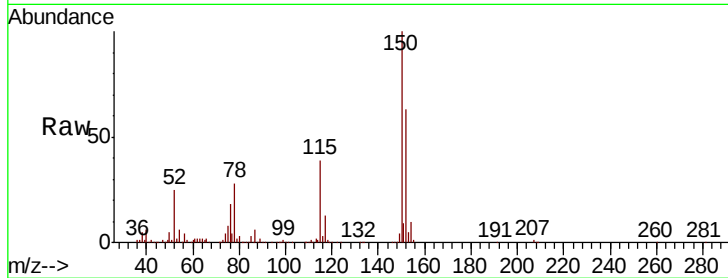
Tot Ion:152 Resp: 225650

Ion Ratio Lower Upper

152 100

115 60.7 30.5 91.5

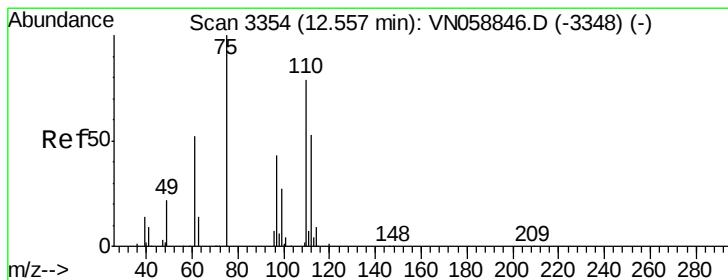
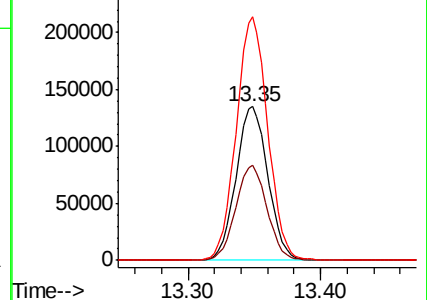
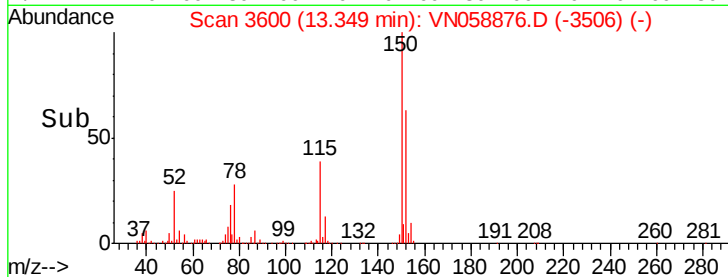
150 156.1 0.0 344.4



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: 30.492 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058876.D

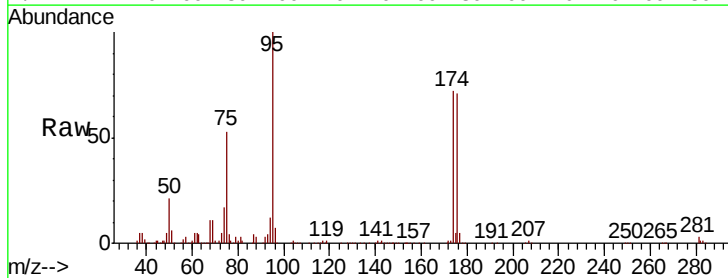
Acq: 21 Oct 2019 10:43

Tgt Ion: 75 Resp: 159466

Ion Ratio Lower Upper

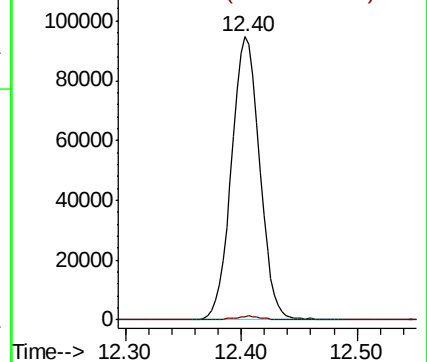
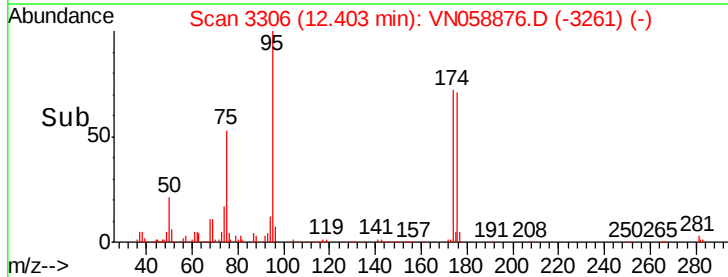
75 100

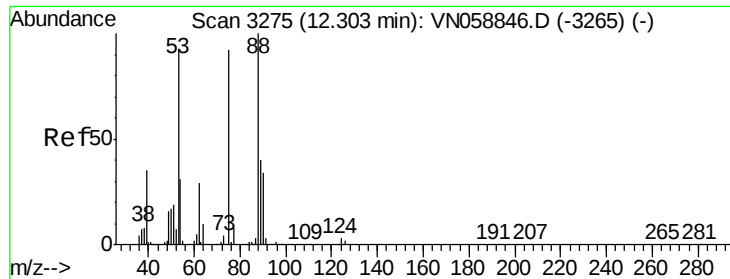
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 79.435 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

FA19-EX3

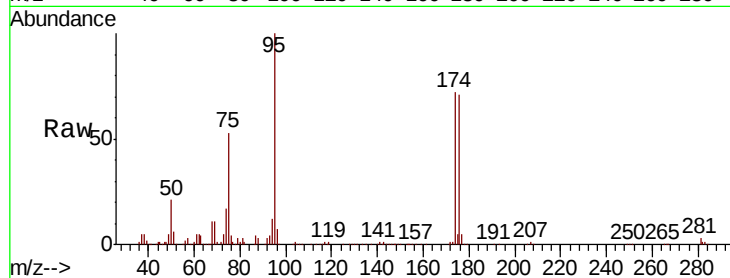
Tot Ion: 75 Resp: 159466

Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

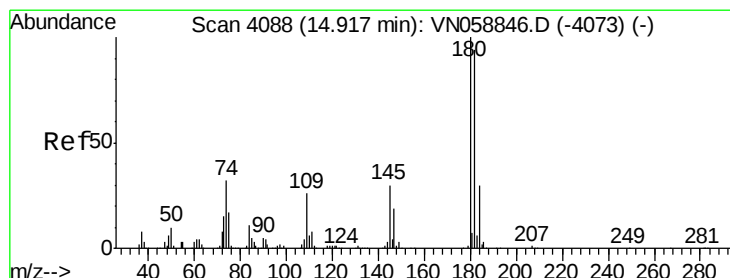
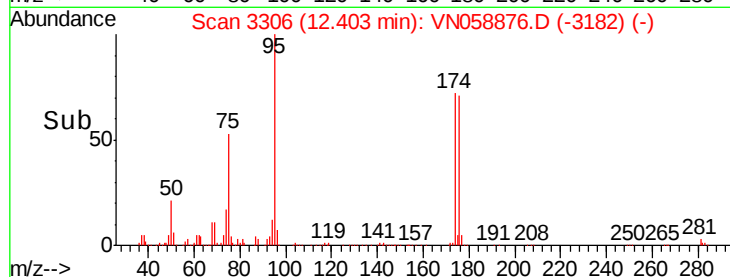
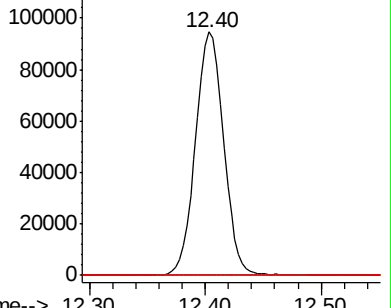
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058876.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN058876.D (-3306) (-)

Ion 88.90 (88.60 to 89.60): VN058876.D (-3306) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.600 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

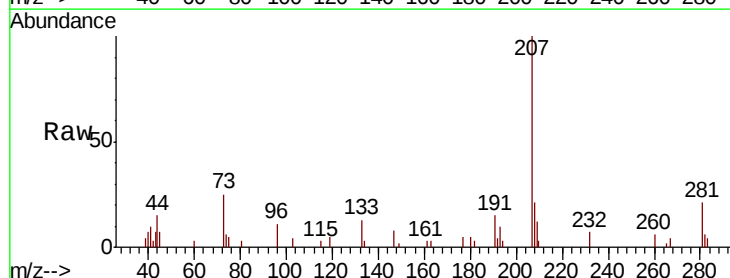
Tgt Ion:180 Resp: 378

Ion Ratio Lower Upper

180 100

182 69.3 47.3 142.0

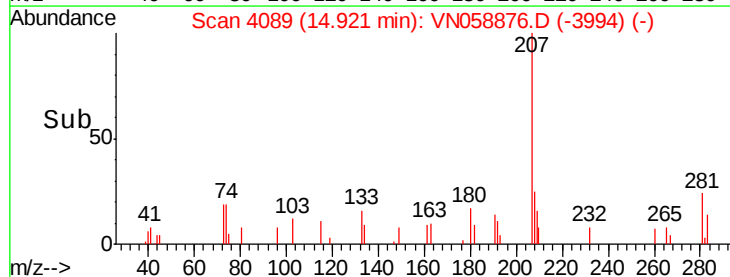
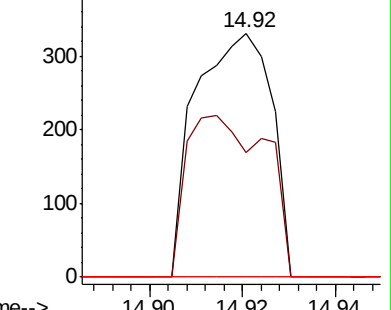
145 0.0 15.3 45.8#

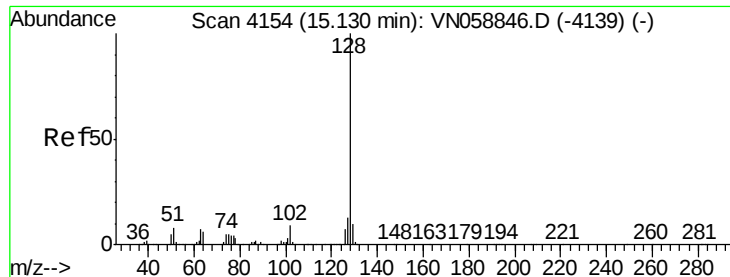


Abundance Ion 179.80 (179.50 to 180.50): VN058876.D (-4088) (-)

Ion 181.80 (181.50 to 182.50): VN058876.D (-4088) (-)

Ion 144.80 (144.50 to 145.50): VN058876.D (-4088) (-)





#95

Naphthalene

Concen: 2.277 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

Instrument :

MSVOA_N

ClientSampleId :

FA19-EX3

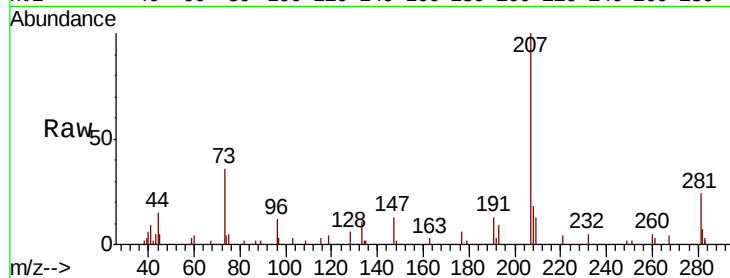
Tot Ion:128 Resp: 705

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

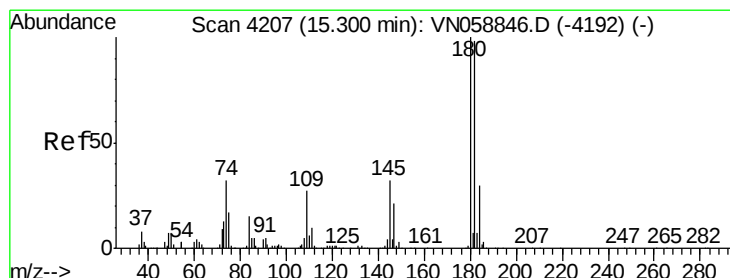
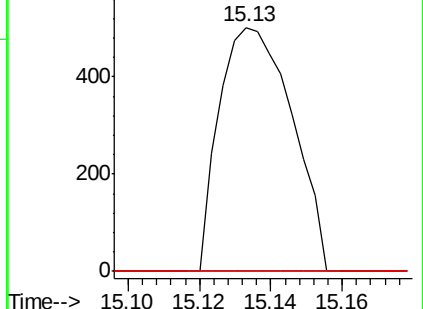
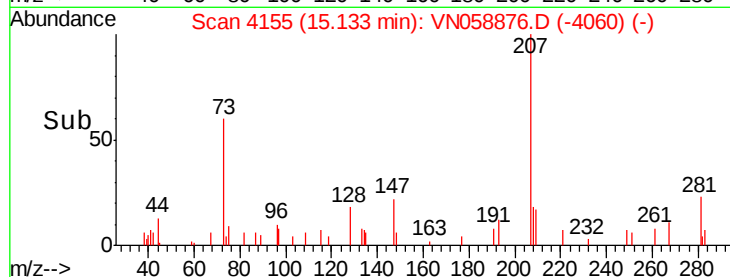
129 0.0 8.4 12.6#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.457 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058876.D

Acq: 21 Oct 2019 10:43

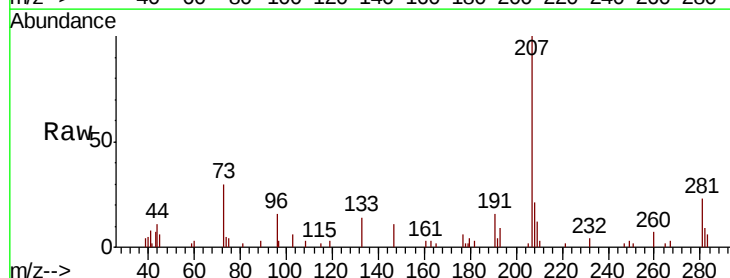
Tgt Ion:180 Resp: 289

Ion Ratio Lower Upper

180 100

182 104.5 47.9 143.7

145 10.4 15.9 47.7#



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

