

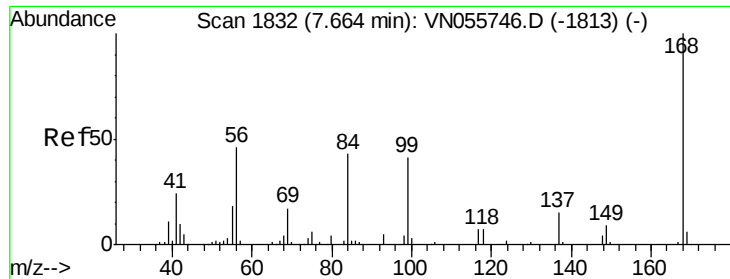
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055803.D
 Acq On : 24 May 2019 18:13
 Operator : JC/SP
 Sample : K2643-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-052319-A

Quant Time: May 25 04:29:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	428856	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	602097	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	560263	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	201958	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	200109	45.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.36%	
35) Dibromofluoromethane	7.59	113	181877	47.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.56%	
50) Toluene-d8	10.09	98	722302	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.40	95	239084	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	31379	16.118	ug/l	100
18) Methyl Acetate	4.33	43	4491	Below Cal	#	82
20) Methylene Chloride	4.54	84	4939	1.171	ug/l	88
25) 2-Butanone	6.86	43	3361	1.236	ug/l	96
29) Tetrahydrofuran	7.22	42	1395	0.810	ug/l #	76
31) Cyclohexane	7.66	56	6418	0.965	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24212	4.614	ug/l #	47
38) Carbon Tetrachloride	7.66	117	34392	6.293	ug/l #	14
43) Isopropyl Acetate	8.17	43	14574	1.710	ug/l #	87
45) 1,2-Dichloropropane	9.27	63	1550	0.376	ug/l #	44
48) Methyl methacrylate	9.18	41	7581	1.931	ug/l #	12
51) 4-Methyl-2-Pentanone	9.99	43	5361	1.065	ug/l #	83
54) cis-1,3-Dichloropropene	9.90	75	57154	8.724	ug/l #	57
57) 1,3-Dichloropropane	10.76	76	11959	1.847	ug/l #	42
59) 2-Hexanone	10.76	43	149056	41.753	ug/l #	50
71) Bromoform	12.40	173	1484	0.389	ug/l #	1
73) Isopropylbenzene	12.25	105	390	Below Cal	#	48
74) N-amyl acetate	11.88	43	15246	0.534	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	109421	30.220	ug/l #	100
79) 2-Chlorotoluene	12.67	91	29	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	3980	Below Cal		93
81) trans-1,4-Dichloro-2-buten	12.40	75	109421	72.898	ug/l #	15
83) tert-Butylbenzene	13.04	119	270	Below Cal	#	60
84) 1,2,4-Trimethylbenzene	13.04	105	2859	Below Cal		97
85) sec-Butylbenzene	13.17	105	340	Below Cal	#	55
95) Naphthalene	15.13	128	2506	0.268	ug/l #	79

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

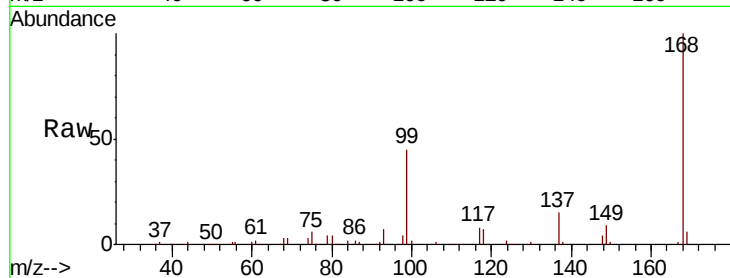
OR-03-052319-A

Tot Ion:168 Resp: 428856

Ion Ratio Lower Upper

168 100

99 44.6 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055803.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055803.D (-1739) (-)

7.66

200000

150000

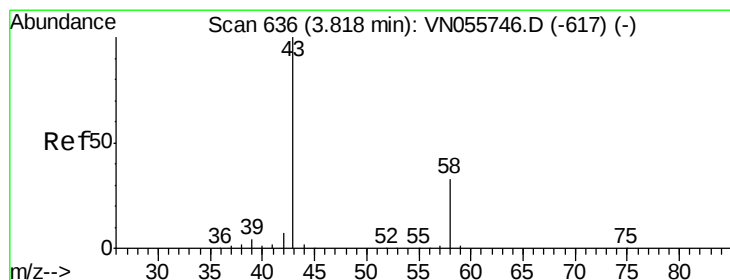
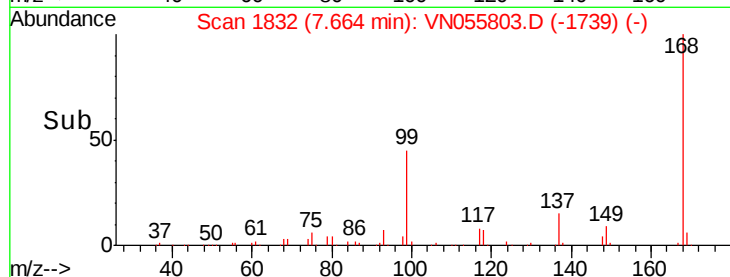
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 16.118 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055803.D

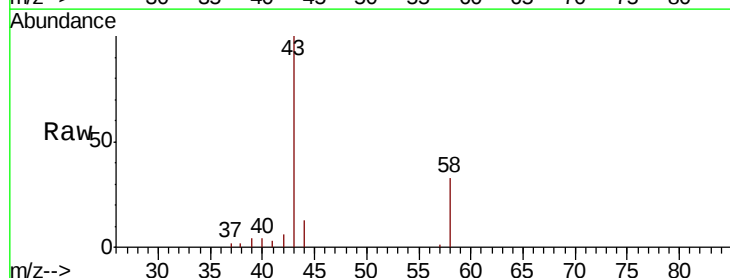
Acq: 24 May 2019 18:13

Tgt Ion: 43 Resp: 31379

Ion Ratio Lower Upper

43 100

58 33.2 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN055803.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN055803.D (-543) (-)

3.82

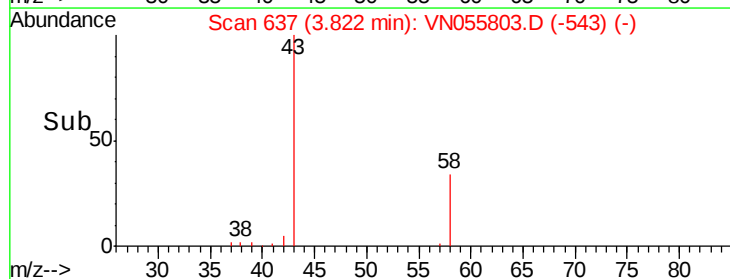
10000

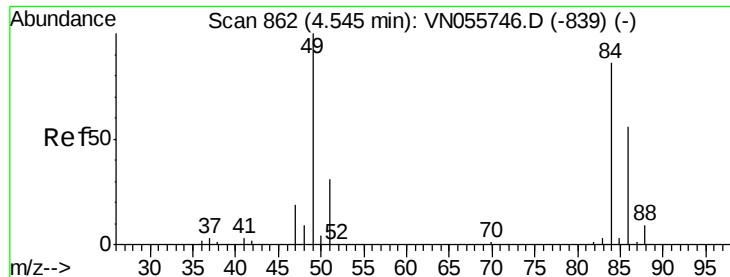
5000

0

3.70 3.75 3.80 3.85 3.90

Time-->

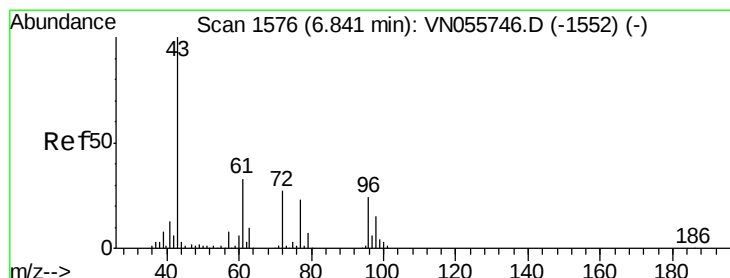
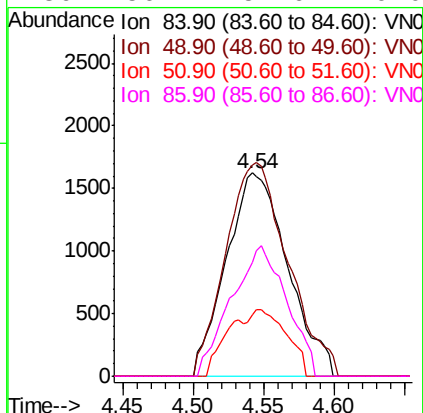
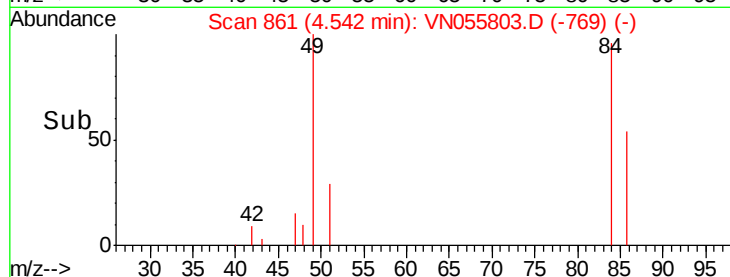
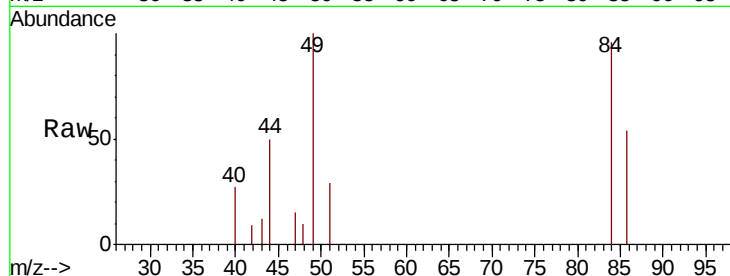




#20
Methvlene Chloride
Concen: 1.171 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN055803.D
Acq: 24 May 2019 18:13

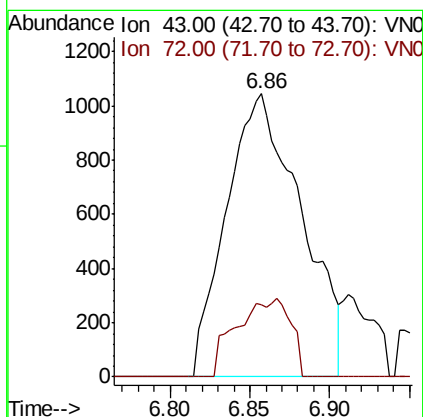
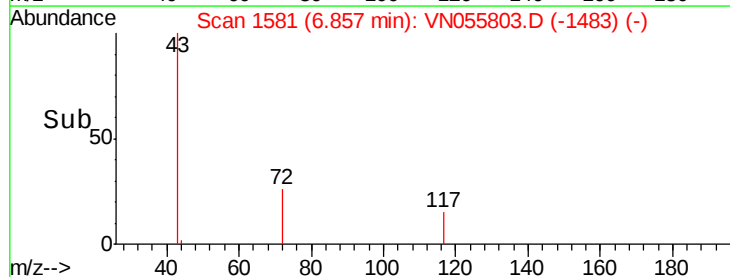
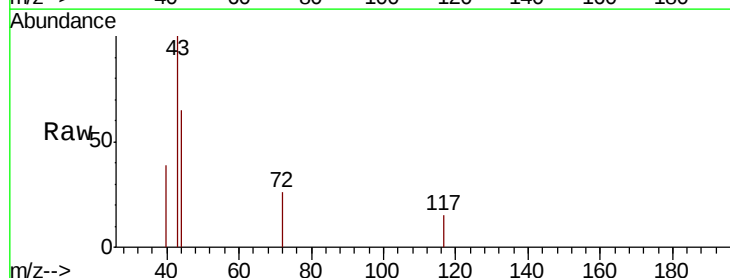
Instrument :
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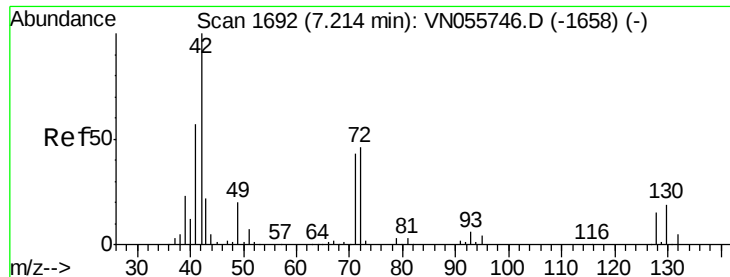
Tot Ion: 84 Resp: 4939
Ion Ratio Lower Upper
84 100
49 104.1 93.5 140.3
51 30.2 28.6 43.0
86 56.1 52.6 79.0



#25
2-Butanone
Concen: 1.236 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN055803.D
Acq: 24 May 2019 18:13

Tgt Ion: 43 Resp: 3361
Ion Ratio Lower Upper
43 100
72 25.6 21.9 32.9





#29

Tetrahydrofuran

Concen: 0.810 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

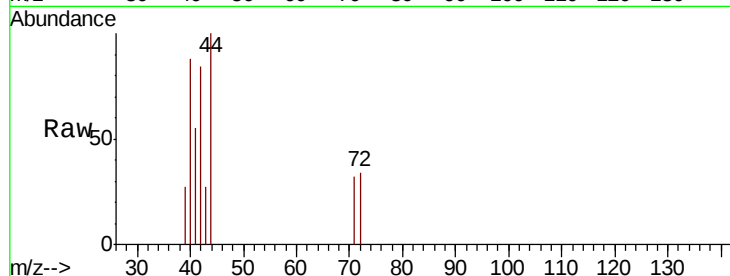
Tot Ion: 42 Resp: 1395

Ion Ratio Lower Upper

42 100

72 21.2 35.9 53.9#

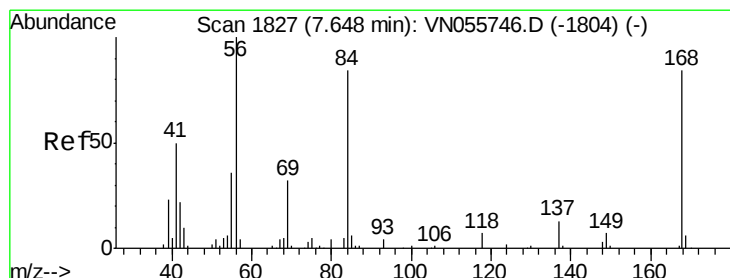
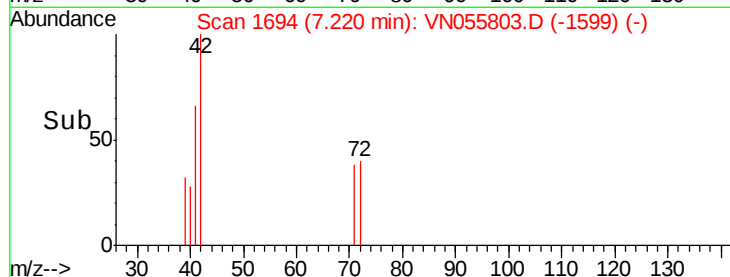
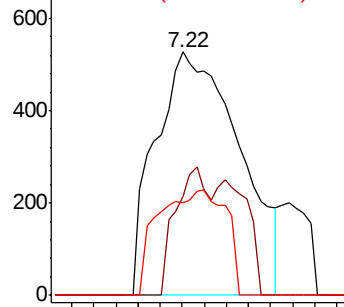
71 34.9 34.0 51.0



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: 0.965 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

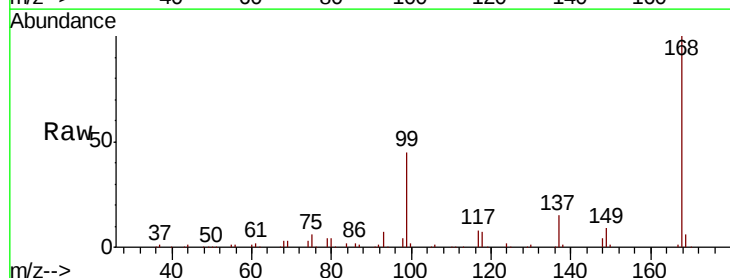
Tgt Ion: 56 Resp: 6418

Ion Ratio Lower Upper

56 100

69 193.7 25.6 38.4#

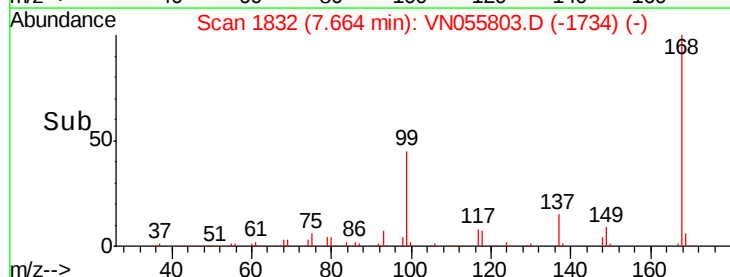
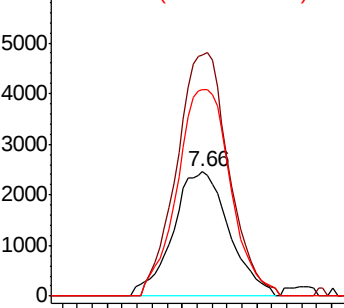
84 166.0 67.4 101.0#

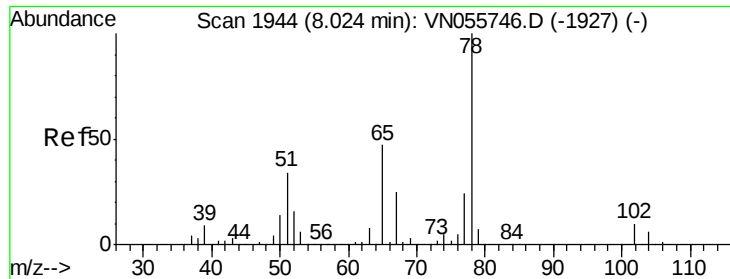


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

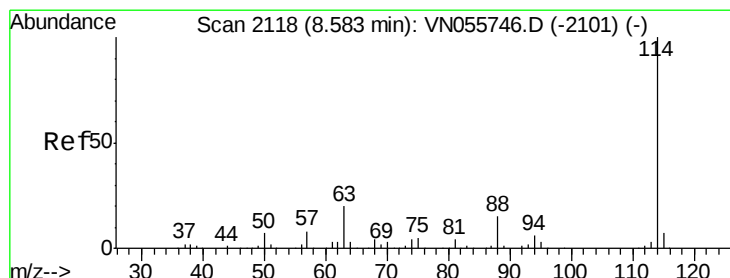
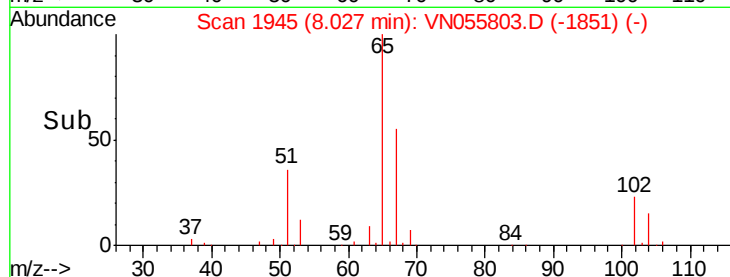
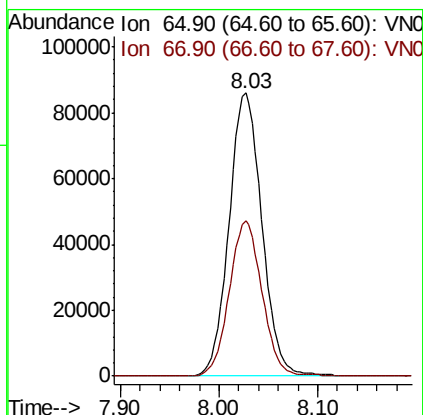
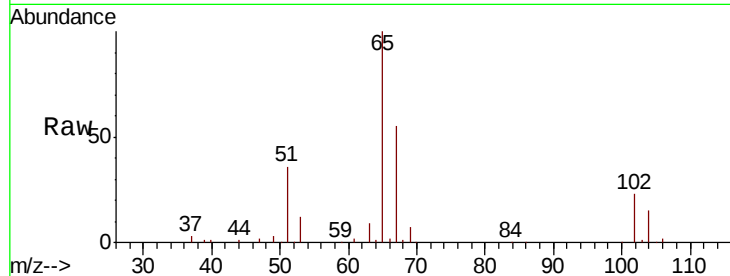




#33
 1,2-Dichloroethane-d4
 Concen: 45.183 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

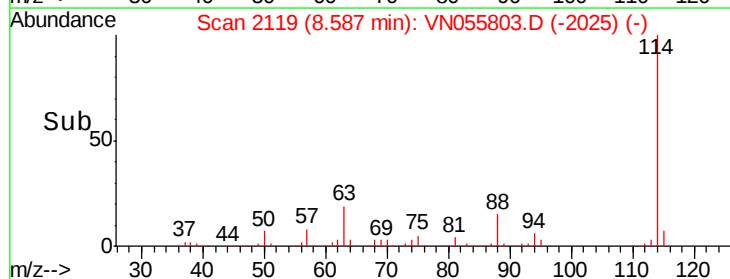
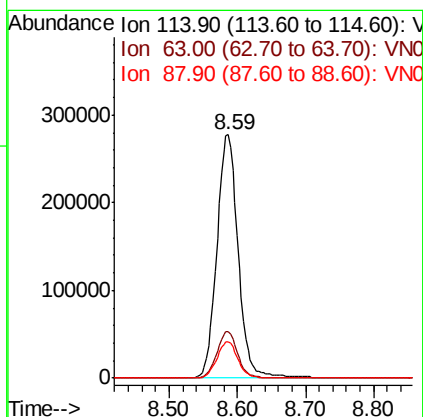
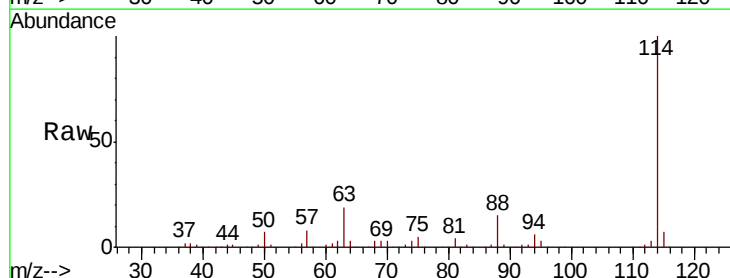
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-052319-A

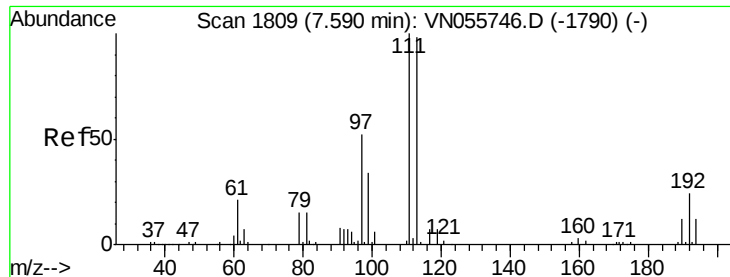
Tot Ion: 65 Resp: 200109
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

Tgt Ion: 114 Resp: 602097
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 39.2
 88 15.1 0.0 31.0

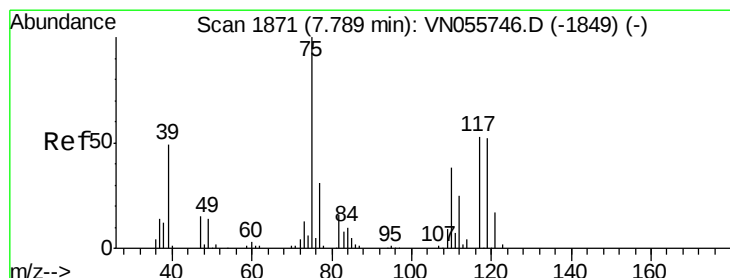
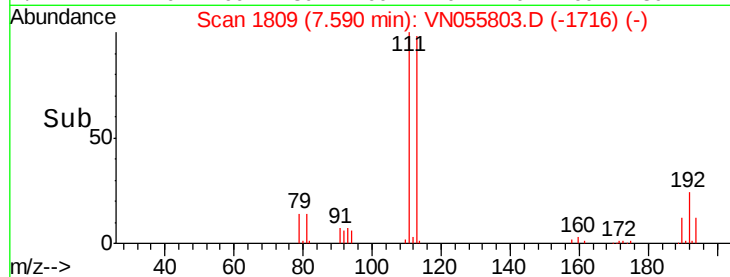
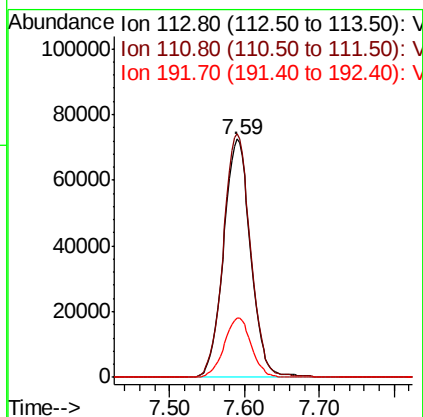
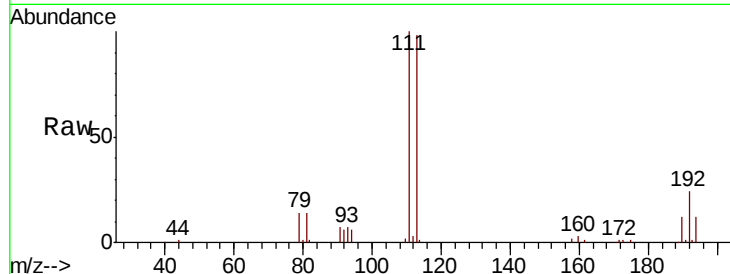




#35
 Dibromofluoromethane
 Concen: 47.779 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

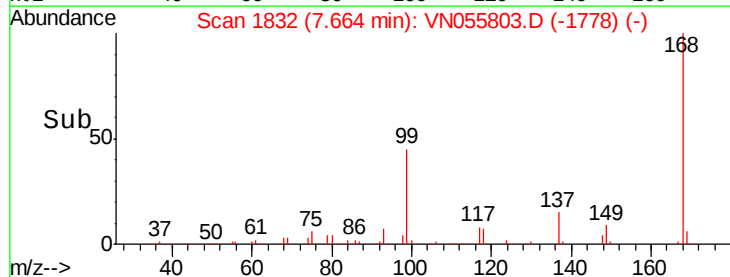
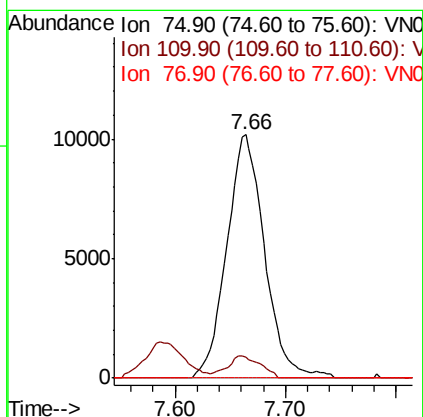
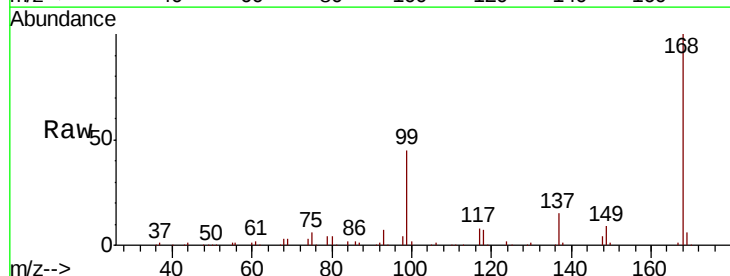
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 ClientSampleId :
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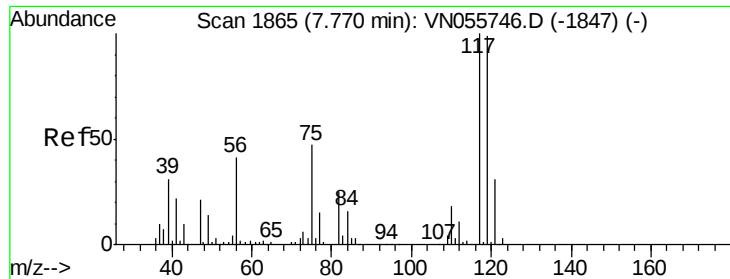
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.9	122.9
192	24.8	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.614 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.293 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

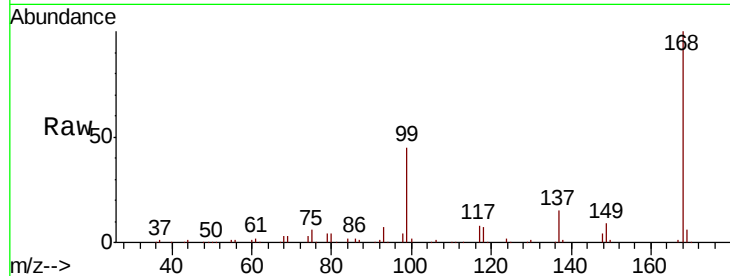
Tot Ion:117 Resp: 34392

Ion Ratio Lower Upper

117 100

119 4.3 79.0 118.6#

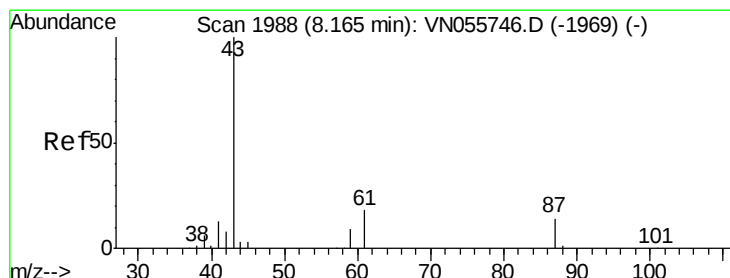
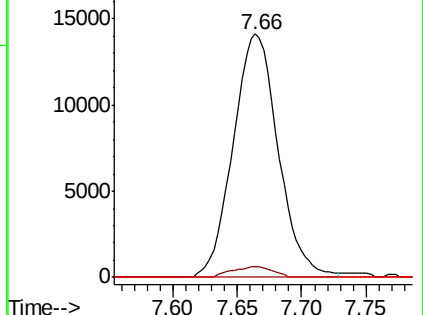
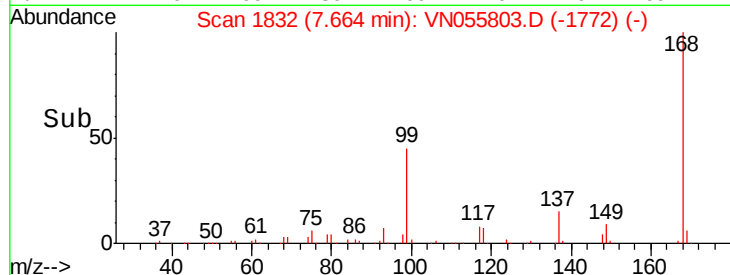
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 1.710 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

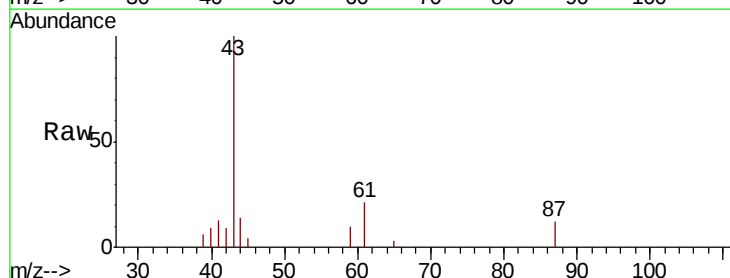
Tgt Ion: 43 Resp: 14574

Ion Ratio Lower Upper

43 100

61 18.9 22.2 33.4#

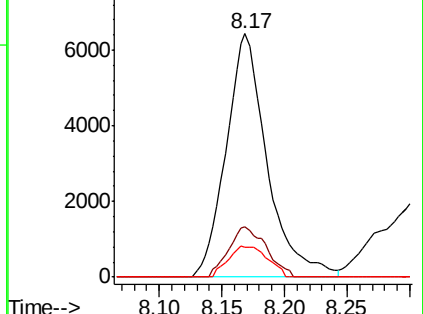
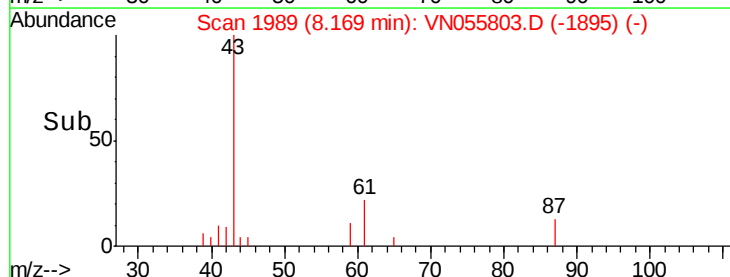
87 12.0 11.4 17.2

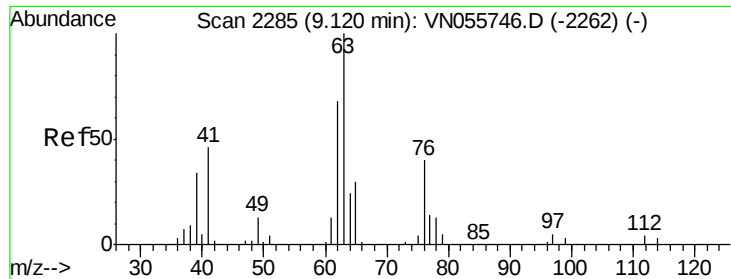


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

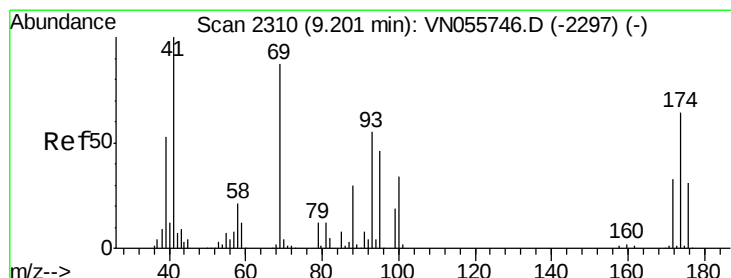
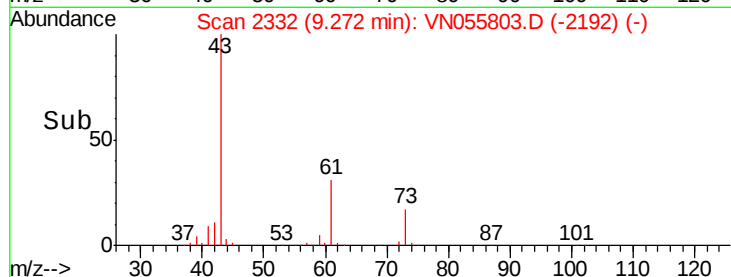
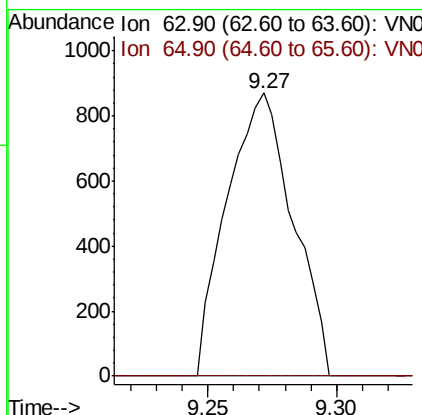
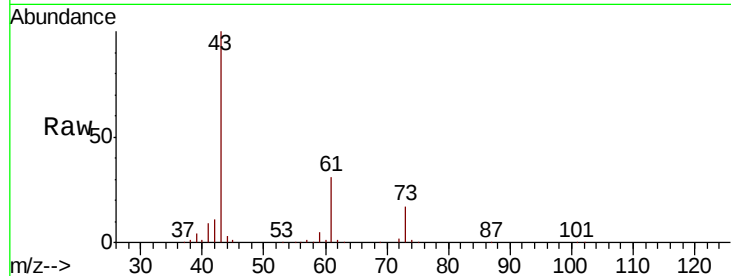




#45
 1,2-Dichloropropane
 Concen: 0.376 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

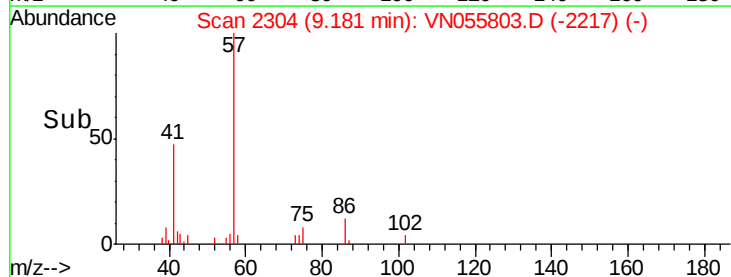
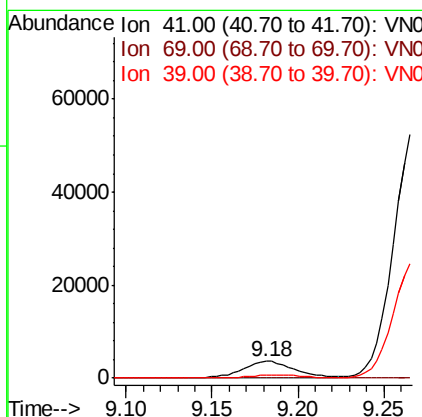
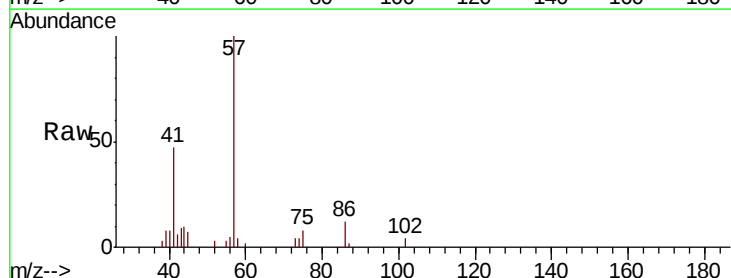
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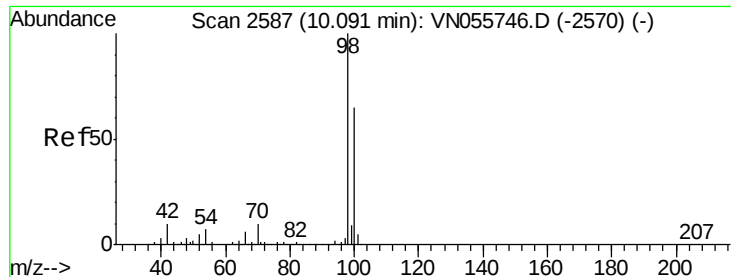
Tot Ion: 63 Resp: 1550
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 36.8#



#48
 Methyl methacrylate
 Concen: 1.931 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

Tgt Ion: 41 Resp: 7581
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.0 106.6#
 39 0.0 44.2 66.2#





#50

Toluene-d8

Concen: 49.466 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

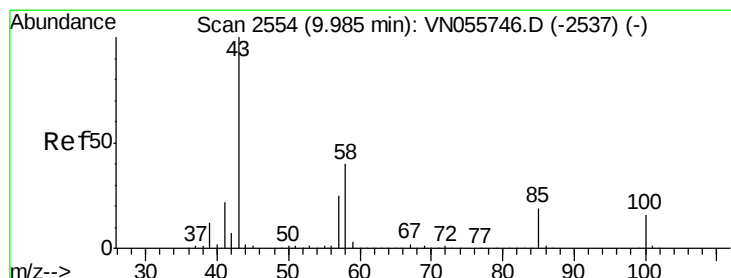
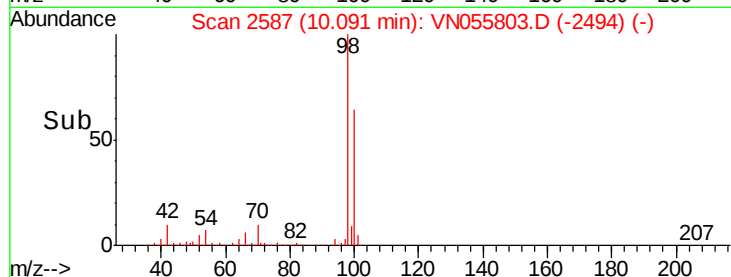
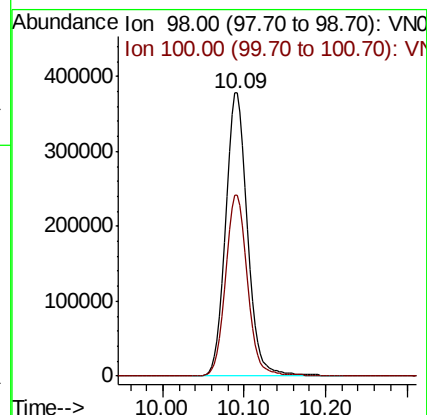
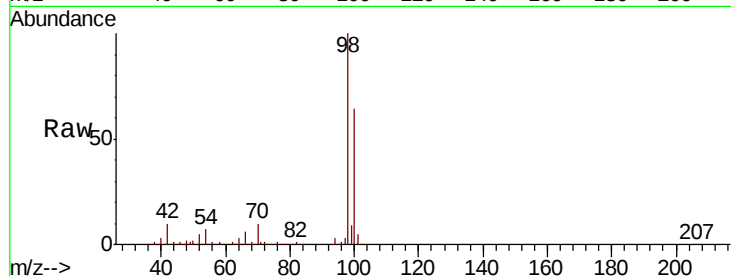
OR-03-052319-A

Tot Ion: 98 Resp: 722302

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.065 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055803.D

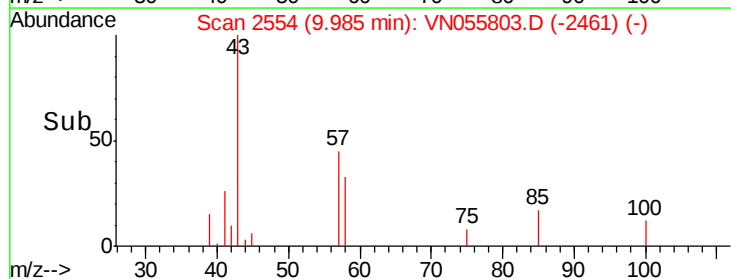
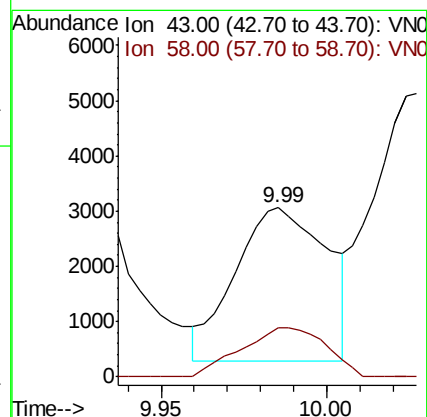
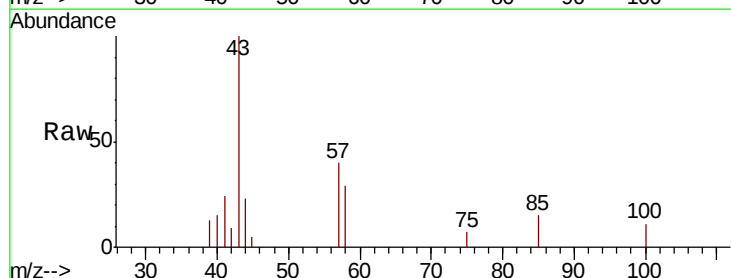
Acq: 24 May 2019 18:13

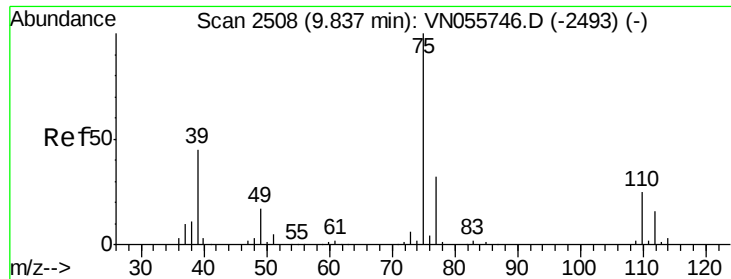
Tgt Ion: 43 Resp: 5361

Ion Ratio Lower Upper

43 100

58 29.7 32.1 48.1#





#54

cis-1,3-Dichloropropene

Concen: 8.724 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

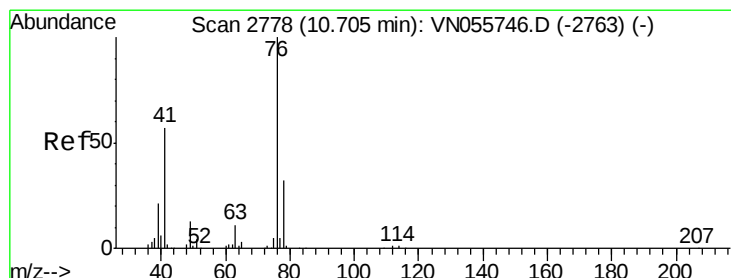
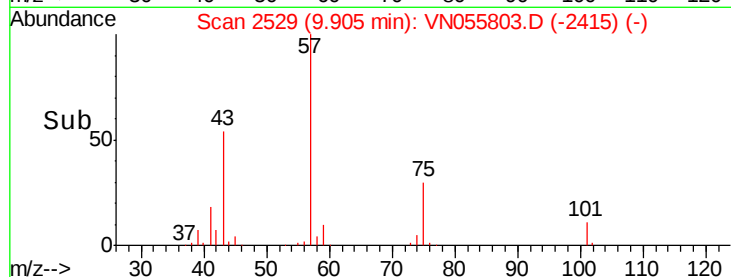
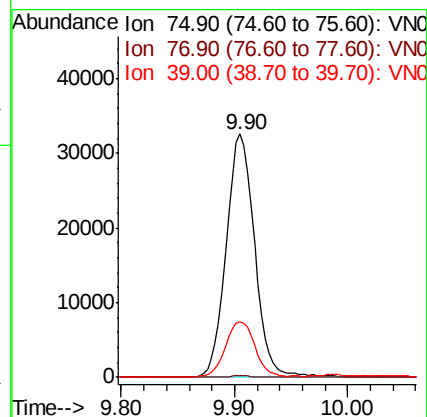
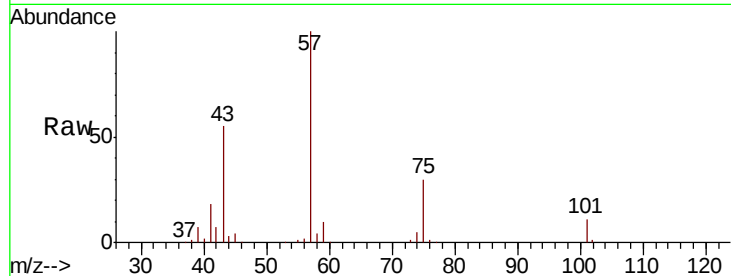
Tot Ion: 75 Resp: 57154

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

39 22.9 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 1.847 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055803.D

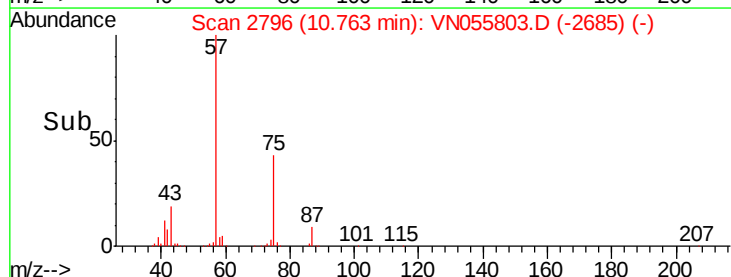
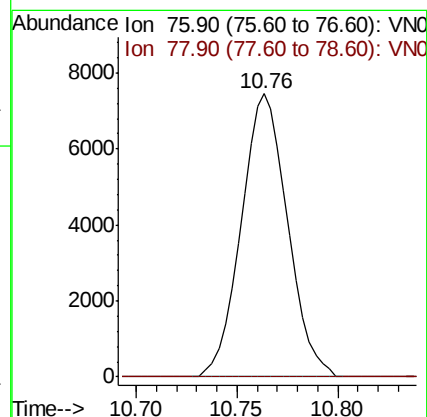
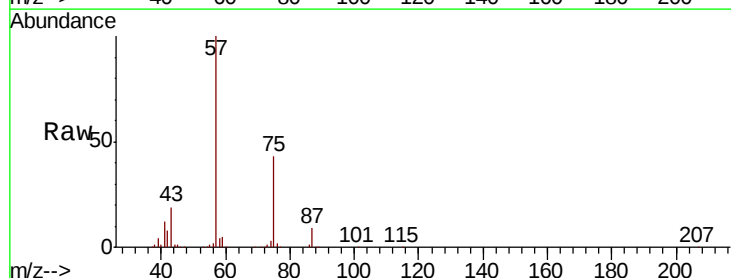
Acq: 24 May 2019 18:13

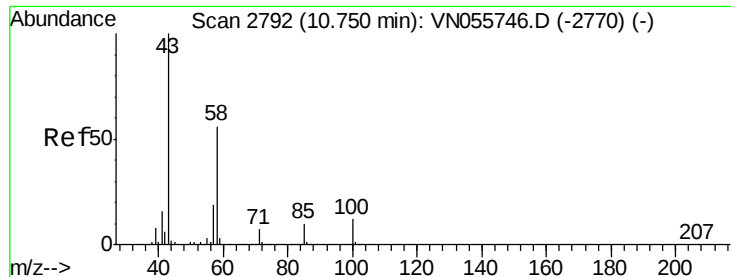
Tgt Ion: 76 Resp: 11959

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

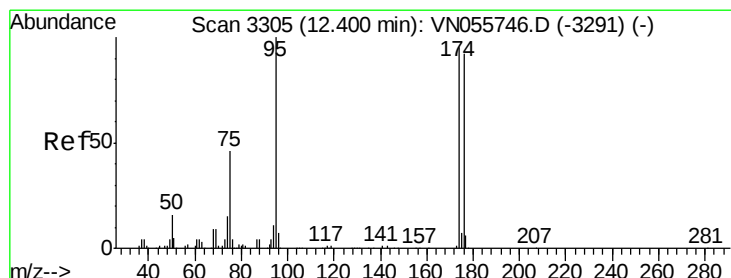
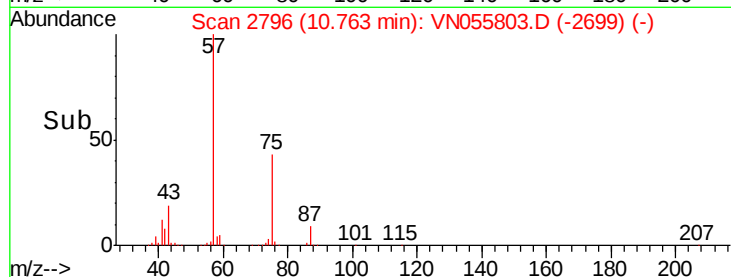
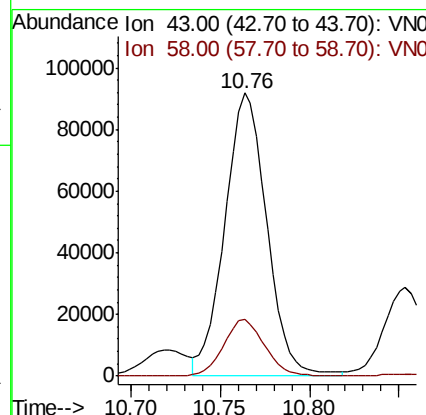
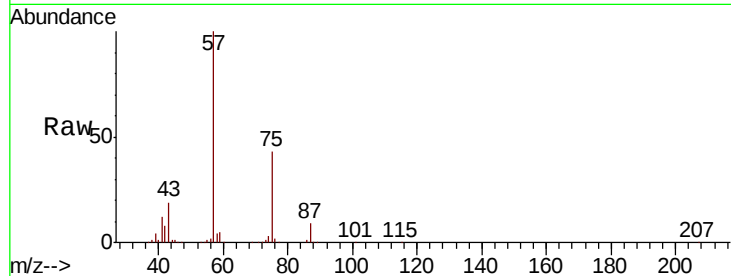




#59
2-Hexanone
Concen: 41.753 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN055803.D
Acq: 24 May 2019 18:13

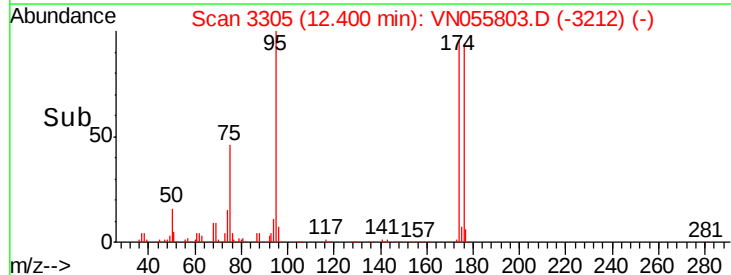
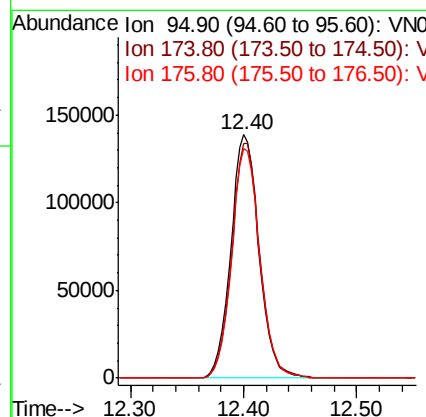
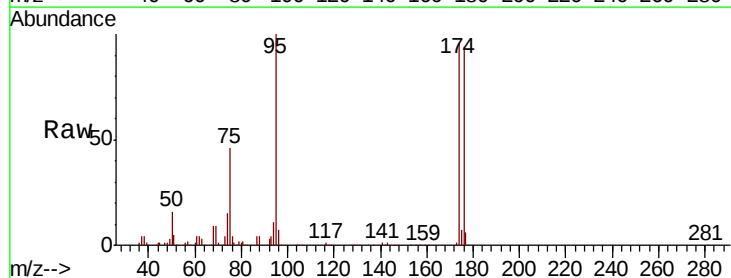
Instrument :
MSVOA_N
ClientSampleId :
OR-03-052319-A

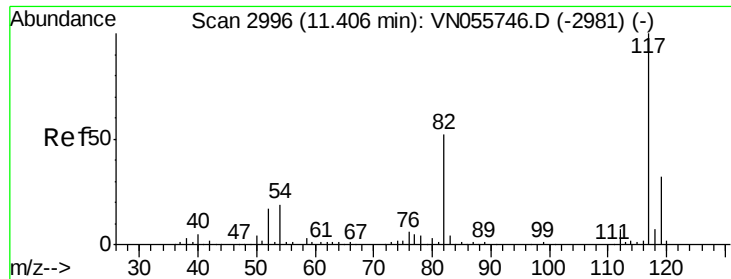
Tot Ion: 43 Resp: 149056
Ion Ratio Lower Upper
43 100
58 19.9 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 47.751 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055803.D
Acq: 24 May 2019 18:13

Tgt Ion: 95 Resp: 239084
Ion Ratio Lower Upper
95 100
174 97.0 0.0 191.0
176 94.4 0.0 185.2

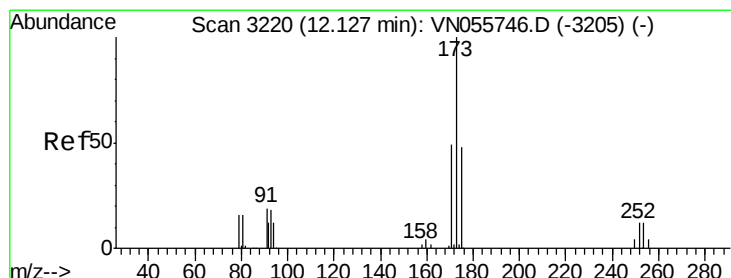
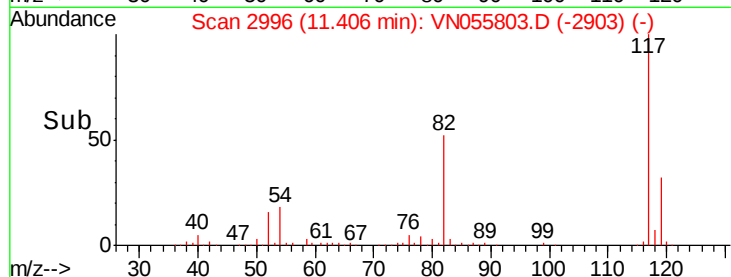
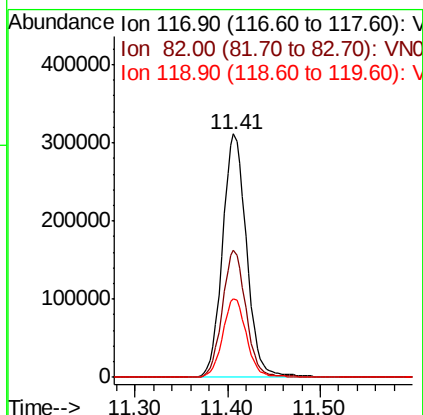
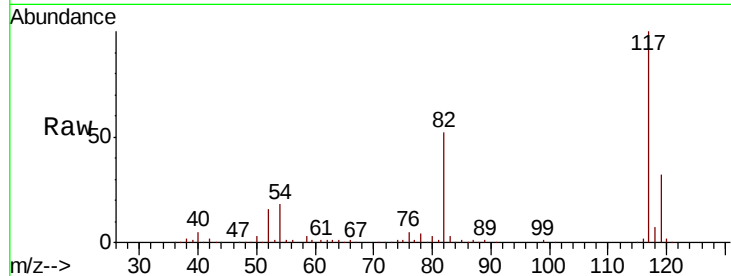




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055803.D
Acq: 24 May 2019 18:13

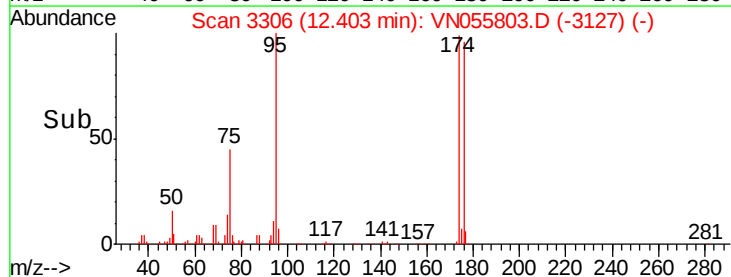
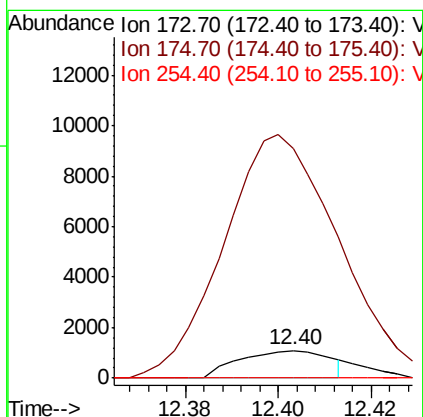
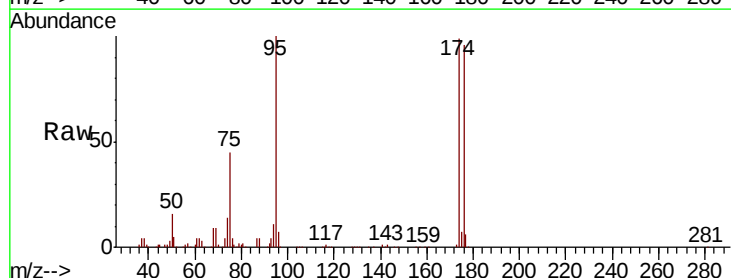
Instrument :
MSVOA_N
ClientSampleId :
OR-03-052319-A

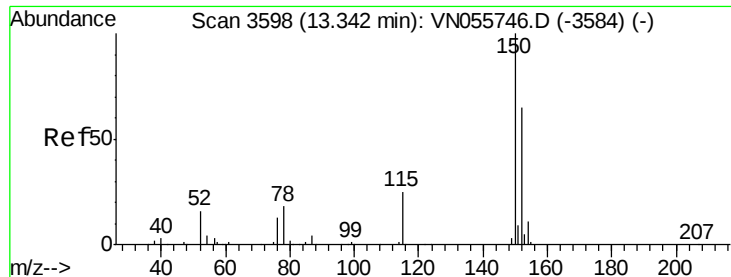
Tot Ion:117 Resp: 560263
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.8
119 32.5 25.4 38.0



#71
Bromoform
Concen: 0.389 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055803.D
Acq: 24 May 2019 18:13

Tgt Ion:173 Resp: 1484
Ion Ratio Lower Upper
173 100
175 977.0 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

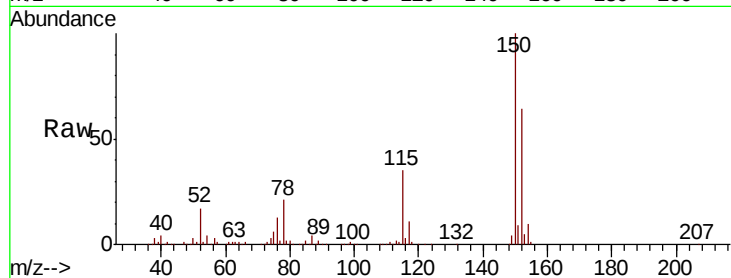
Tot Ion:152 Resp: 201958

Ion Ratio Lower Upper

152 100

115 53.5 27.0 81.0

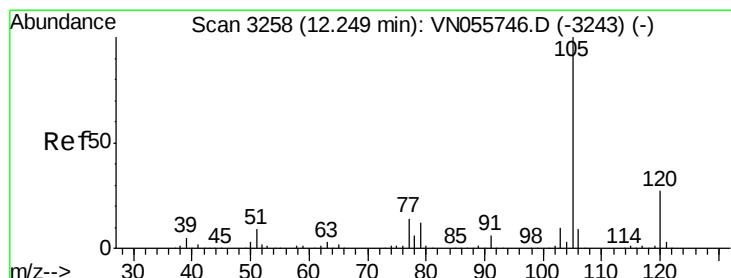
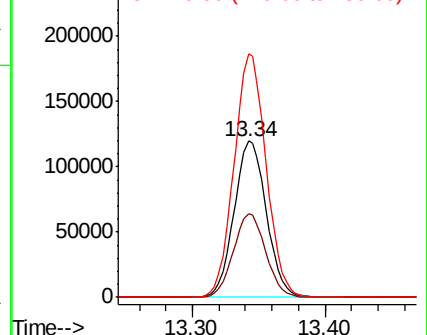
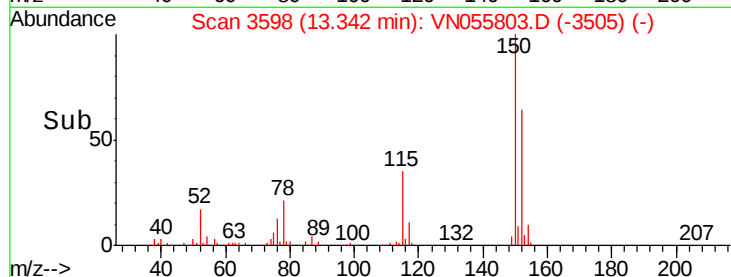
150 155.0 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055803.D

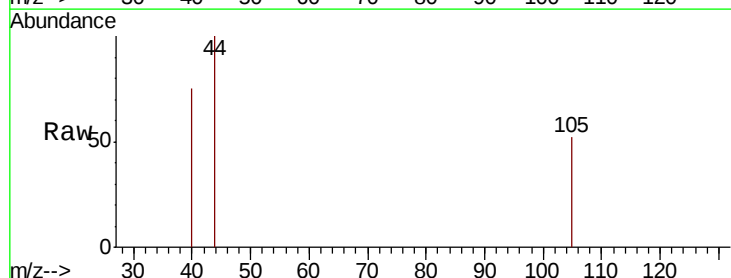
Acq: 24 May 2019 18:13

Tgt Ion:105 Resp: 390

Ion Ratio Lower Upper

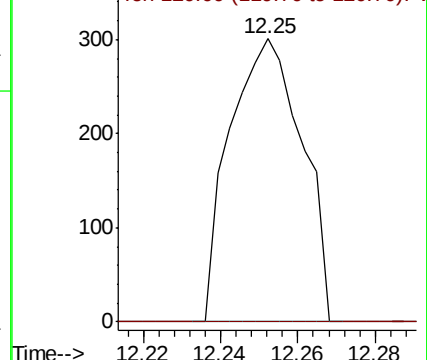
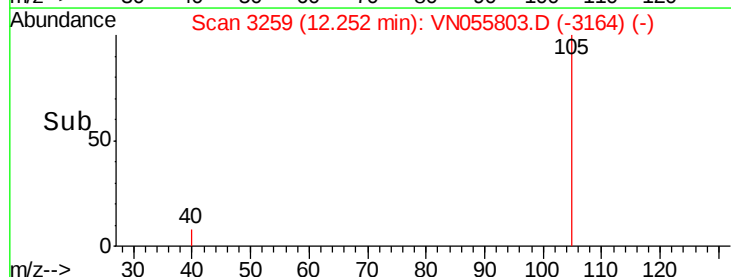
105 100

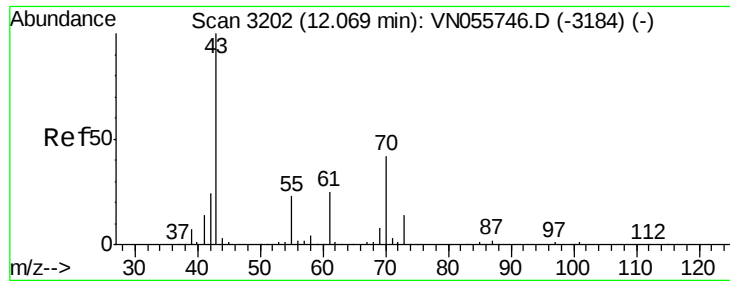
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.534 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

Tot Ion: 43 Resp: 15246

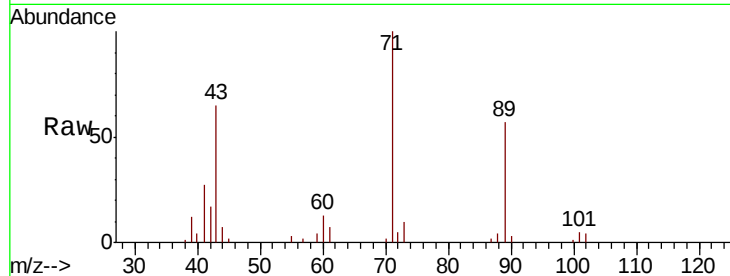
Ion Ratio Lower Upper

43 100

70 1.6 34.0 51.0#

55 4.9 18.6 28.0#

61 10.4 20.0 30.0#

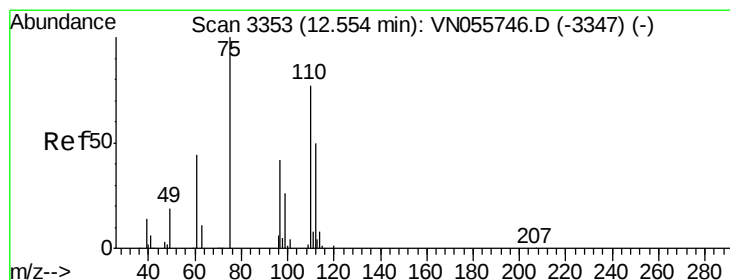
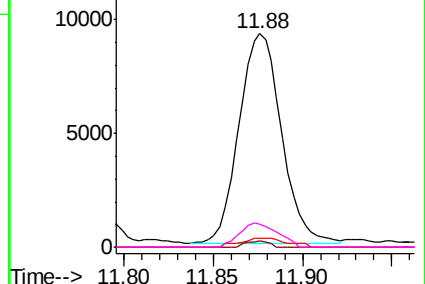
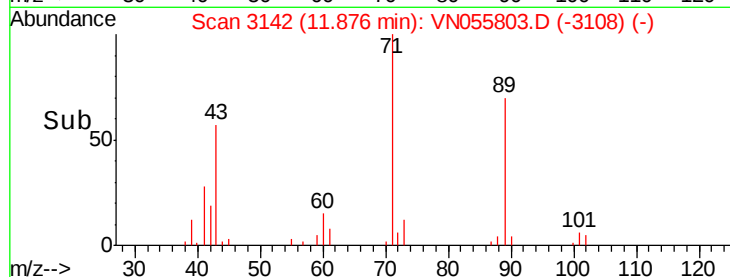


Abundance Ion 43.00 (42.70 to 43.70): VN055803.D (-3108) (-)

Ion 70.00 (69.70 to 70.70): VN055803.D (-3108) (-)

Ion 55.00 (54.70 to 55.70): VN055803.D (-3108) (-)

Ion 61.00 (60.70 to 61.70): VN055803.D (-3108) (-)



#76

1,2,3-Trichloropropane

Concen: 30.220 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055803.D

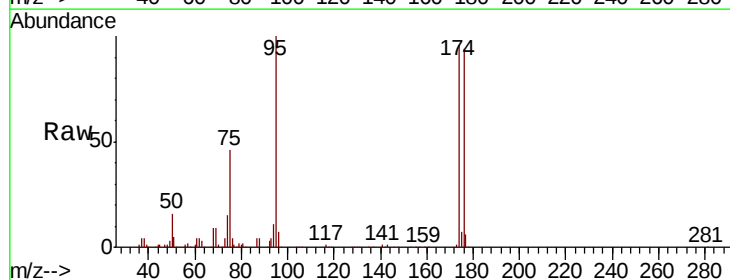
Acq: 24 May 2019 18:13

Tgt Ion: 75 Resp: 109421

Ion Ratio Lower Upper

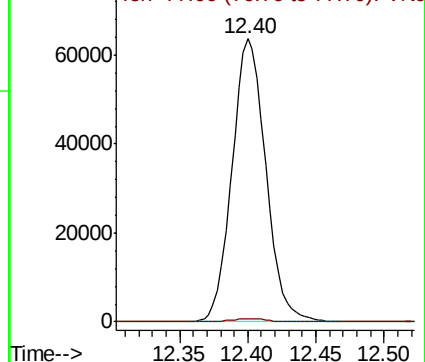
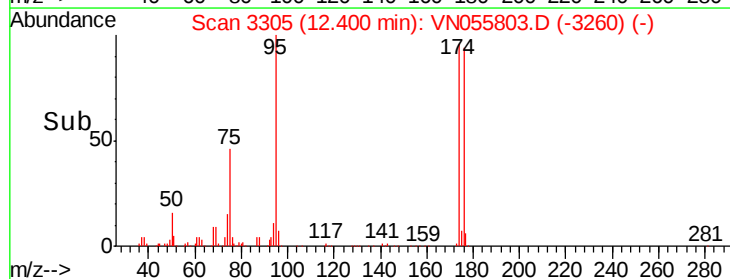
75 100

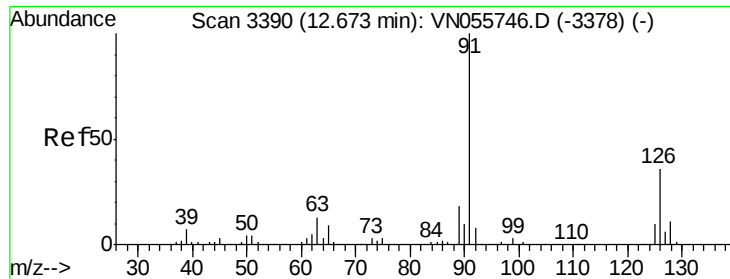
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055803.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN055803.D (-3260) (-)

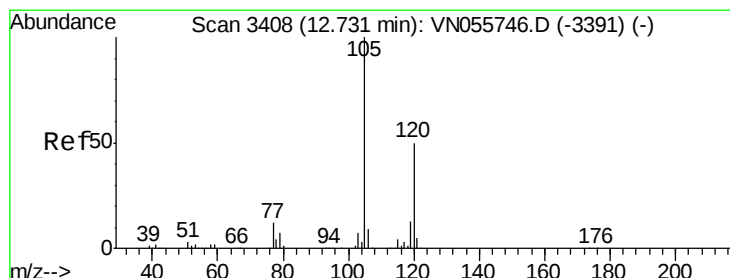
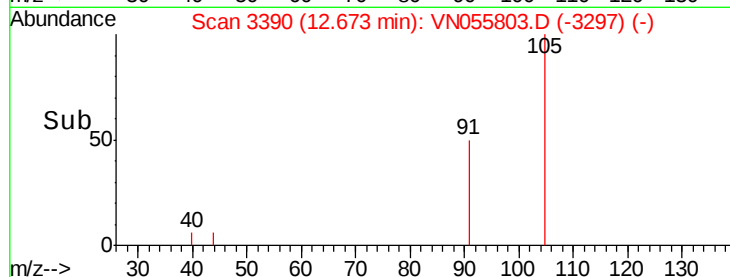
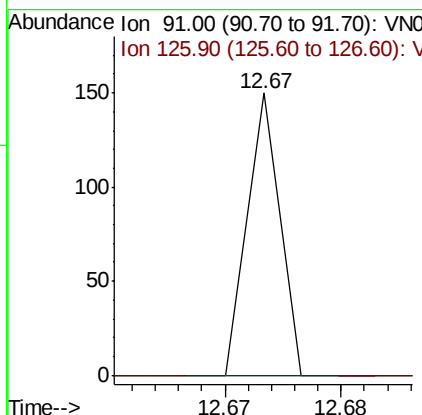
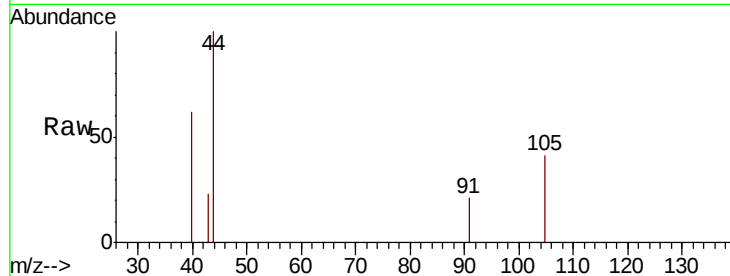




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

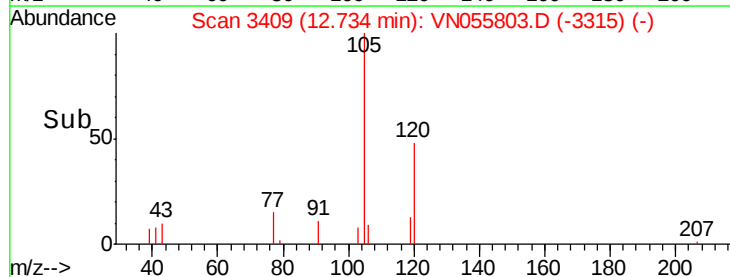
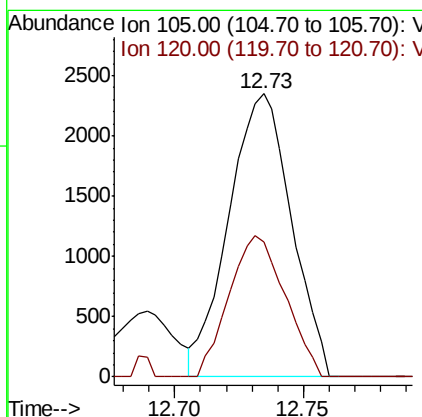
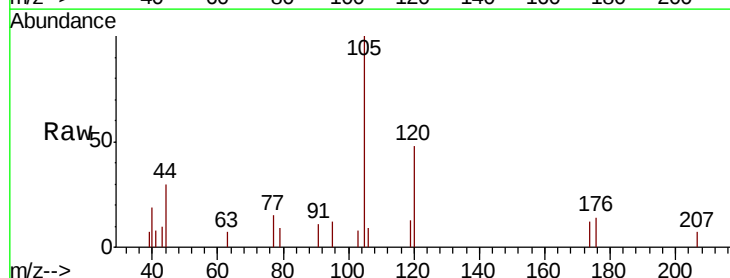
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-052319-A

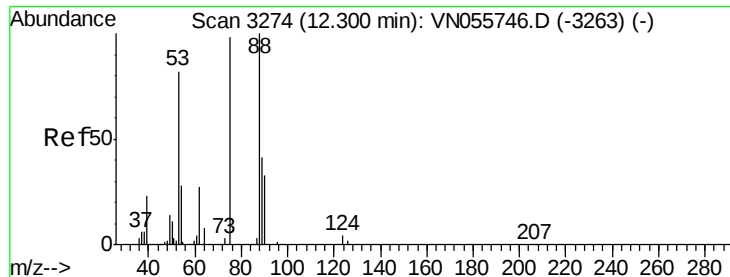
Tot Ion: 91 Resp: 29
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

Tgt Ion: 105 Resp: 3980
 Ion Ratio Lower Upper
 105 100
 120 44.7 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 72.898 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

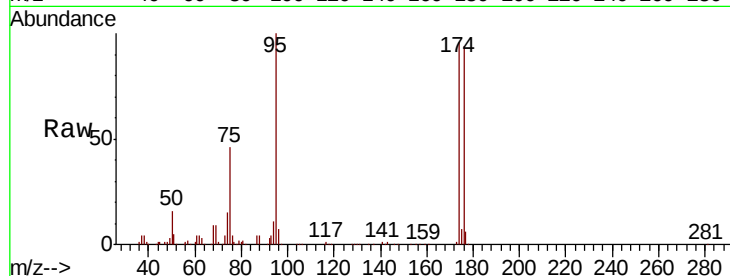
Tot Ion: 75 Resp: 109421

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

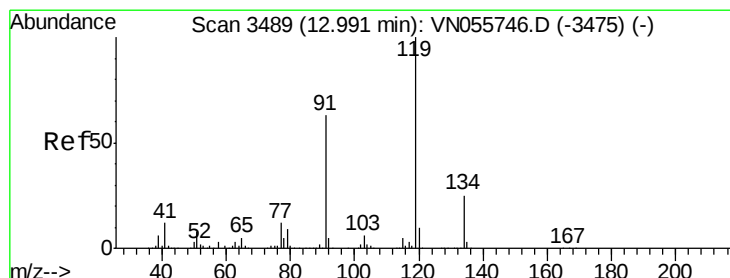
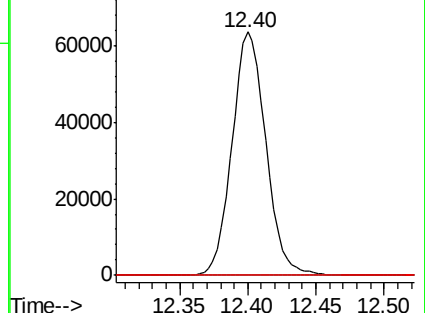
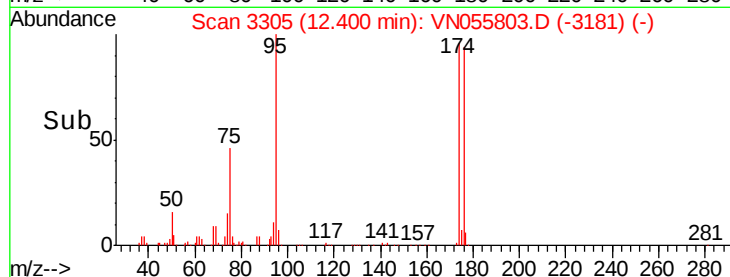
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055803.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055803.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055803.D (-3181) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3503

Delta R.T. 0.05 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

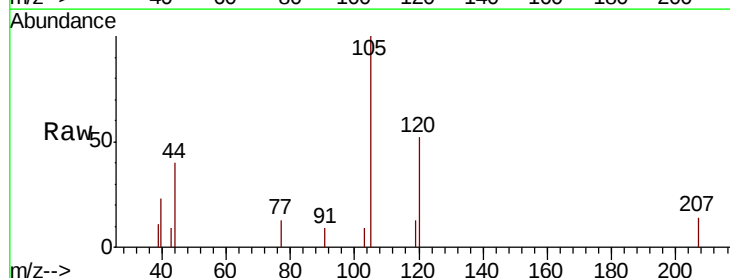
Tgt Ion: 119 Resp: 270

Ion Ratio Lower Upper

119 100

91 35.2 30.9 92.8

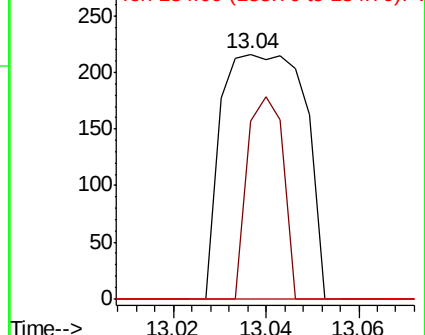
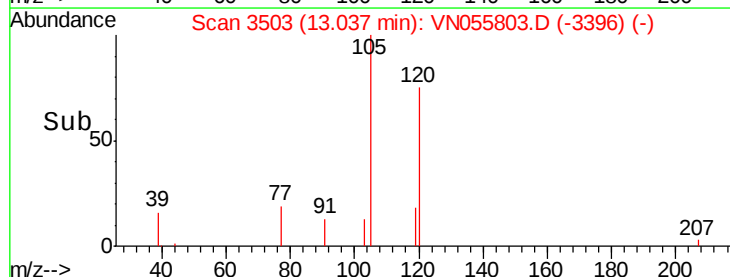
134 0.0 13.3 39.8#

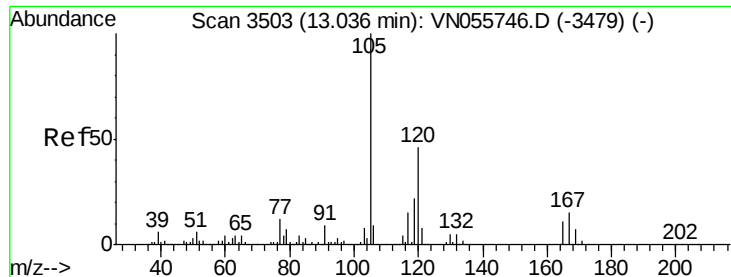


Abundance Ion 119.00 (118.70 to 119.70): VN055803.D (-3396) (-)

Ion 91.00 (90.70 to 91.70): VN055803.D (-3396) (-)

Ion 134.00 (133.70 to 134.70): VN055803.D (-3396) (-)

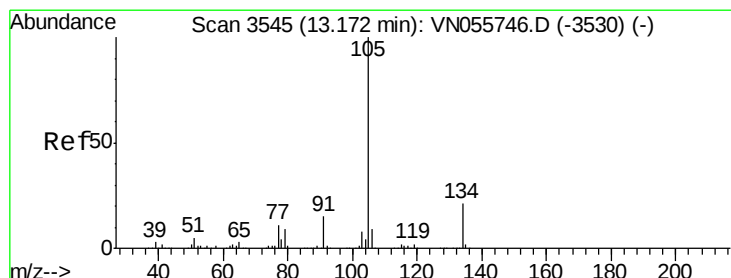
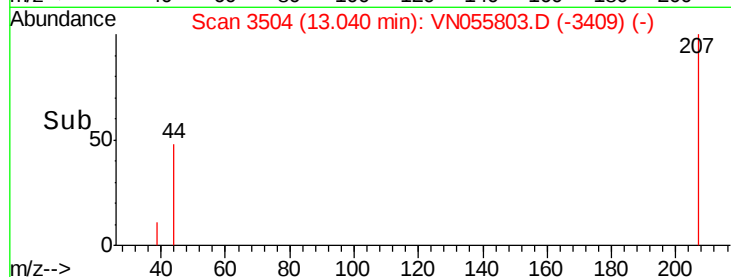
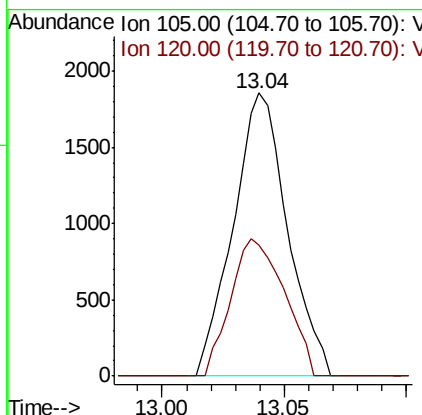
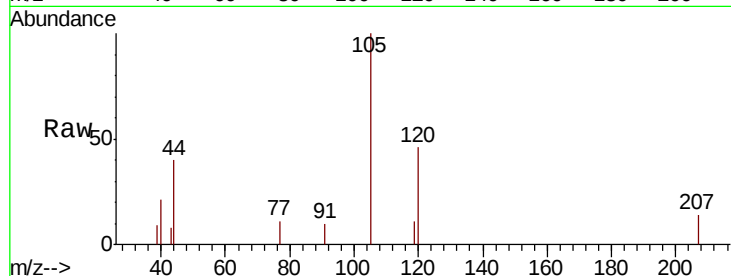




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

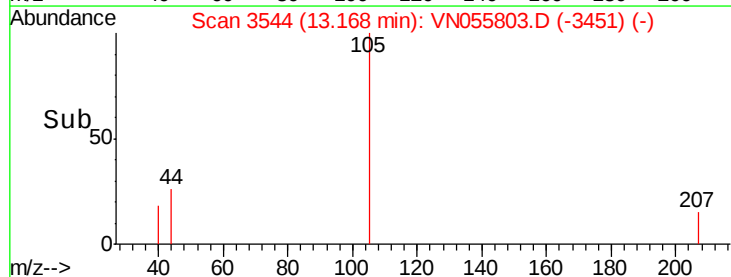
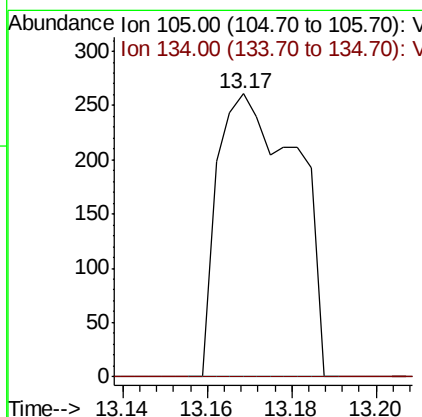
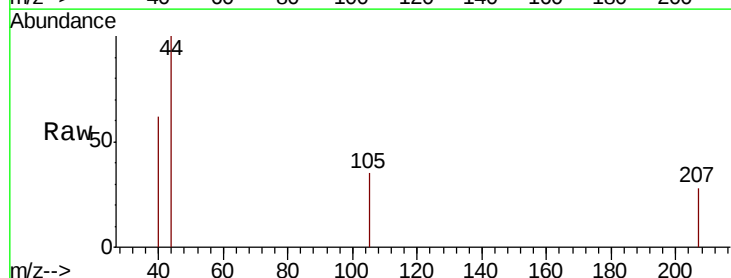
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-052319-A

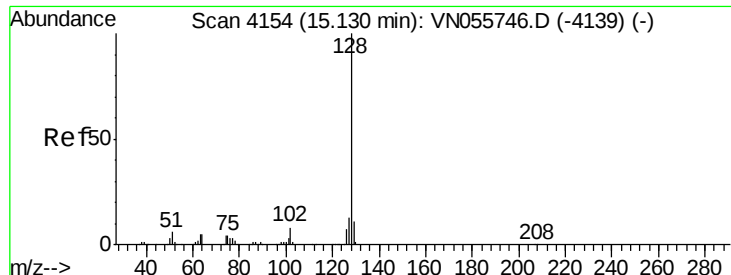
Tot Ion:105 Resp: 2859
 Ion Ratio Lower Upper
 105 100
 120 48.3 23.0 69.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN055803.D
 Acq: 24 May 2019 18:13

Tgt Ion:105 Resp: 340
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#





#95

Naphthalene

Concen: 0.268 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055803.D

Acq: 24 May 2019 18:13

Instrument :

MSVOA_N

ClientSampleId :

OR-03-052319-A

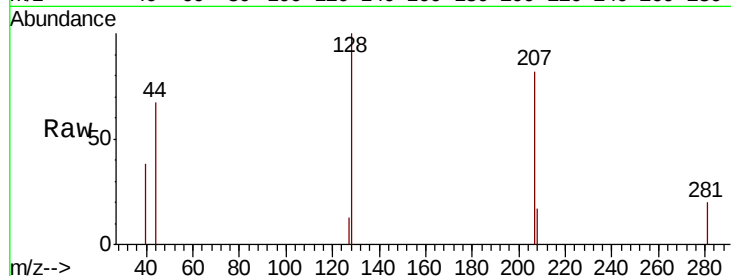
Tot Ion:128 Resp: 2506

Ion Ratio Lower Upper

128 100

127 6.3 10.3 15.5#

129 1.3 8.7 13.1#



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

