

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056705.D
 Acq On : 15 Jul 2019 12:33
 Operator : JC/SP
 Sample : K3591-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Manual Integrations
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MMDadoda
 7/17/2019 1:31:28 AM

Quant Time: Jul 16 06:58:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 06:46:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	340925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	533995	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	451102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143833	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	194849	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	
35) Dibromofluoromethane	7.59	113	164471	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
50) Toluene-d8	10.09	98	626033	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
62) 4-Bromofluorobenzene	12.40	95	178669	41.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.56%	

Target Compounds

					Qvalue	
3) Chloromethane	2.06	50	1150	0.267	ug/l	96
5) Bromomethane	2.56	94	1105	0.453	ug/l #	77
7) Trichlorofluoromethane	3.02	101	1170	0.220	ug/l #	67
11) Tert butyl alcohol	4.80	59	275	0.438	ug/l #	73
13) Acrolein	3.62	56	396	1.738	ug/l #	45
15) Acrylonitrile	5.01	53	1172m	0.647	ug/l	
16) Acetone	3.82	43	2009	1.156	ug/l #	80
17) Carbon Disulfide	4.05	76	2722	0.321	ug/l #	75
18) Methyl Acetate	4.34	43	3242	0.695	ug/l #	61
20) Methylene Chloride	4.56	84	1062	0.280	ug/l #	58
23) Vinyl Acetate	5.91	43	6457	0.728	ug/l #	90
25) 2-Butanone	6.85	43	1981	0.780	ug/l #	48
29) Tetrahydrofuran	7.23	42	1431	0.864	ug/l #	81
30) Chloroform	7.37	83	1667	0.263	ug/l	89
31) Cyclohexane	7.66	56	6625	1.099	ug/l #	1
36) 1,1-Dichloropropene	7.79	75	1203	0.243	ug/l #	61
38) Carbon Tetrachloride	7.76	117	1330m	0.287	ug/l	
39) Methylcyclohexane	9.08	83	1415	0.232	ug/l	91
42) 1,2-Dichloroethane	8.13	62	1298	0.271	ug/l #	73
49) 1,4-Dioxane	9.20	88	209	2.751	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	4814	0.971	ug/l	89
52) Toluene	10.15	92	1802	0.200	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.70	63	1927	0.738	ug/l #	88
59) 2-Hexanone	10.75	43	3408	0.958	ug/l	93
64) Tetrachloroethene	10.63	164	1077	0.277	ug/l #	79
65) Chlorobenzene	11.43	112	2192	0.238	ug/l	96
68) m/p-Xylenes	11.62	106	2701	0.446	ug/l	87
73) Isopropylbenzene	12.25	105	3019	0.260	ug/l	91
74) N-amyl acetate	12.07	43	919	0.213	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.50	83	816	0.209	ug/l #	88
77) Bromobenzene	12.52	156	691	0.228	ug/l	71
78) n-propylbenzene	12.59	91	3389	0.263	ug/l	94
79) 2-Chlorotoluene	12.67	91	2006	0.252	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	2322	0.236	ug/l	85

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 ALS Vial : 11 Sample Multiplier: 1

Instrument :
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 LOD-MDL-WATER-01-QT3-2019

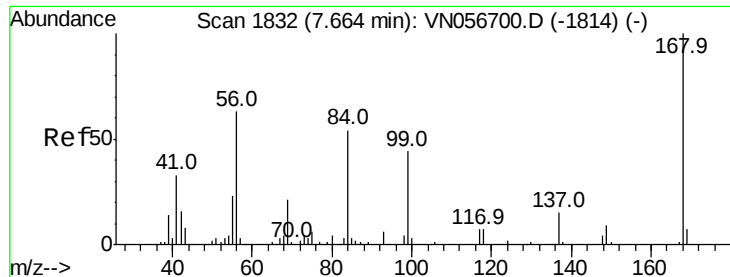
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 06:46:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) trans-1,4-Dichloro-2-buten	12.40	75	82582	81.072	ug/l #	13
82) 4-Chlorotoluene	12.77	91	2406	0.318	ug/l	87
83) tert-Butylbenzene	12.99	119	2359	0.276	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	2399	0.250	ug/l	99
85) sec-Butylbenzene	13.17	105	2856	0.261	ug/l	92
86) p-Isopropyltoluene	13.29	119	2768	0.280	ug/l	96
87) 1,3-Dichlorobenzene	13.28	146	1462	0.294	ug/l	95
88) 1,4-Dichlorobenzene	13.36	146	1560m	0.323	ug/l	
89) n-Butylbenzene	13.61	91	1957	0.246	ug/l	94
91) 1,2-Dichlorobenzene	13.66	146	1465	0.288	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	1306	0.561	ug/l #	85
94) Hexachlorobutadiene	15.01	225	616	0.340	ug/l #	76
95) Naphthalene	15.13	128	3126	0.500	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.32	180	1563	0.650	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:168 Resp: 340925

Ion Ratio Lower Upper

168 100

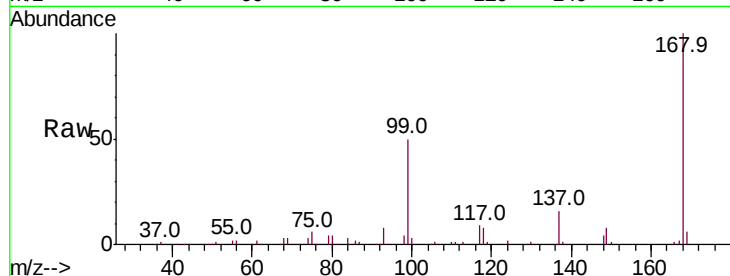
99 49.7 39.4 59.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

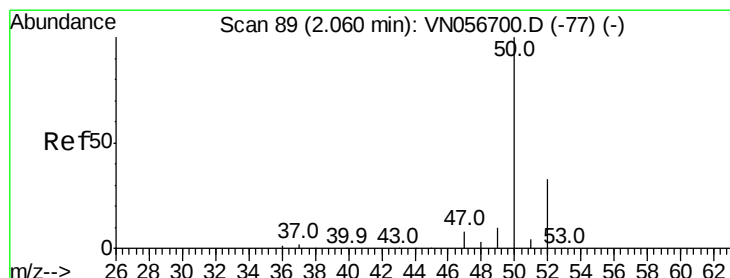
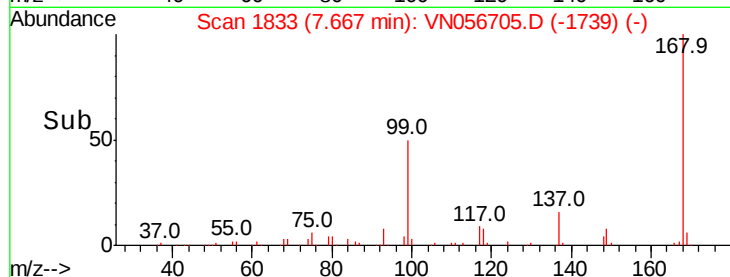
100000

50000

0

7.60 7.67 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.267 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056705.D

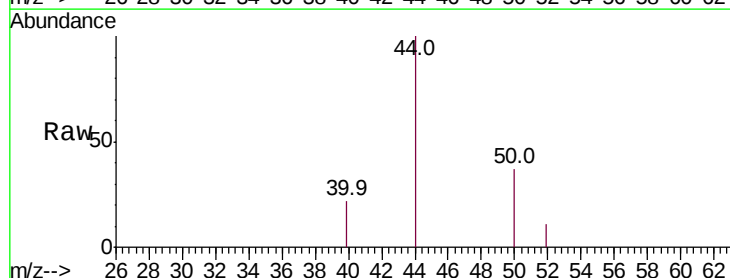
Acq: 15 Jul 2019 12:33

Tgt Ion: 50 Resp: 1150

Ion Ratio Lower Upper

50 100

52 30.8 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

800

600

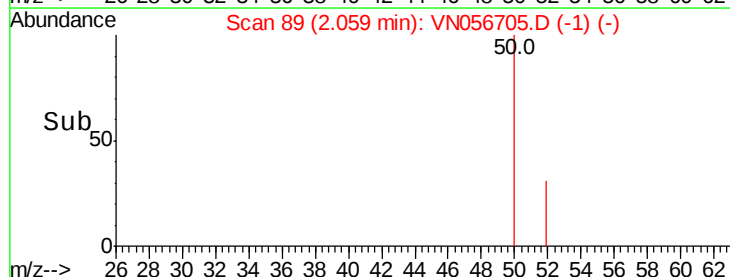
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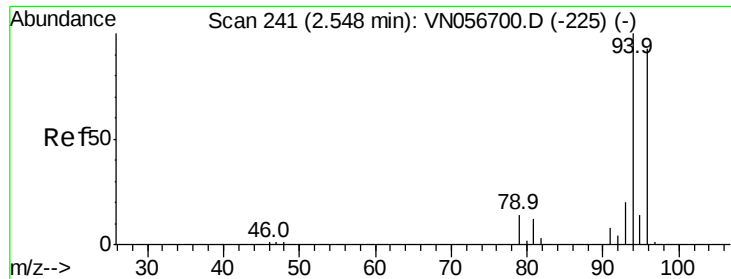
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0

2.02 2.04 2.06 2.08 2.10

Time-->





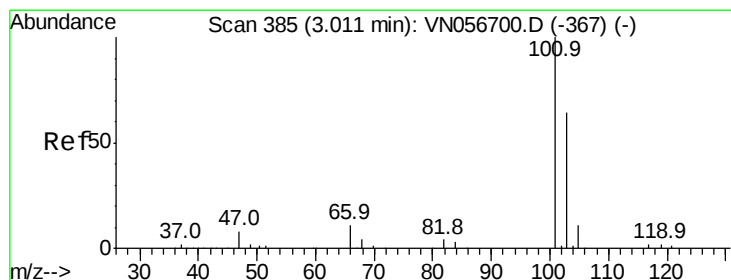
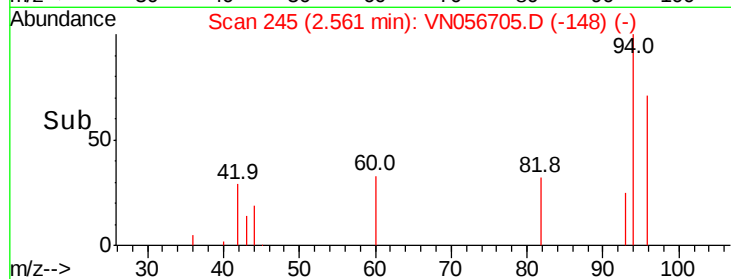
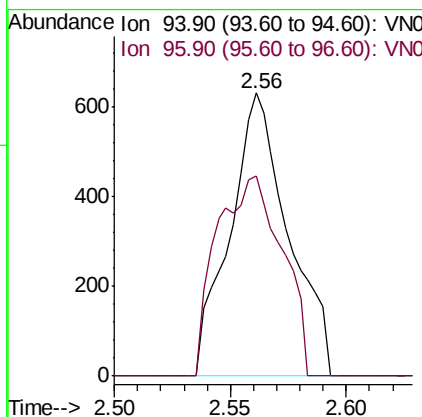
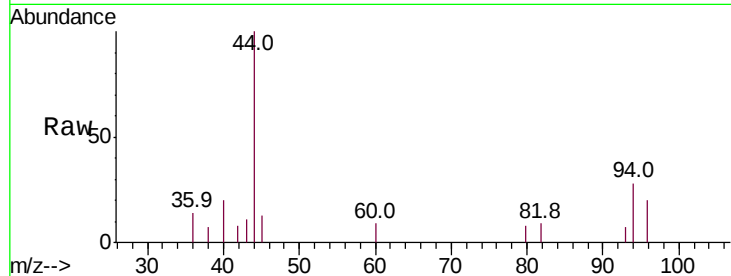
#5
Bromomethane
Concen: 0.453 ug/l
RT: 2.56 min Scan# 245
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 94 Resp: 1105
Ion Ratio Lower Upper
94 100
96 70.5 74.0 111.0#

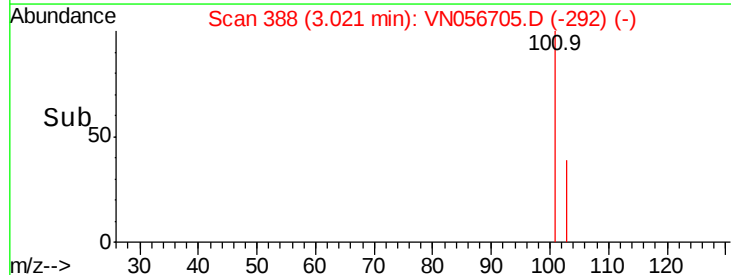
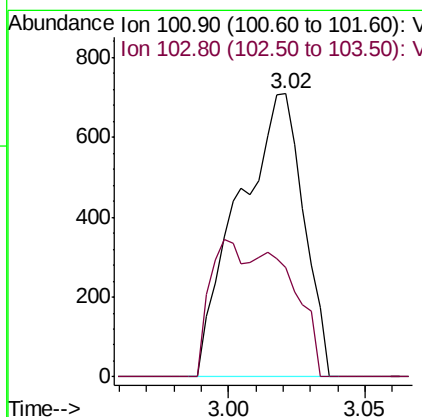
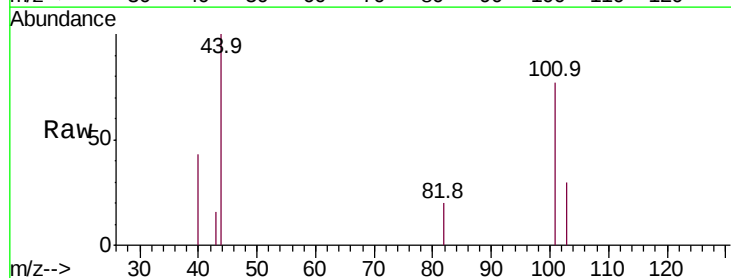
Manual Integrations
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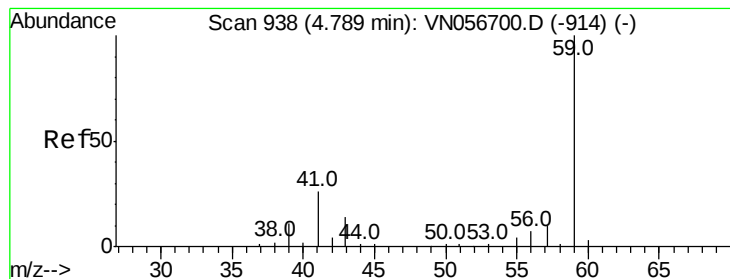
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#7
Trichlorofluoromethane
Concen: 0.220 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion: 101 Resp: 1170
Ion Ratio Lower Upper
101 100
103 38.6 51.5 77.3#





#11

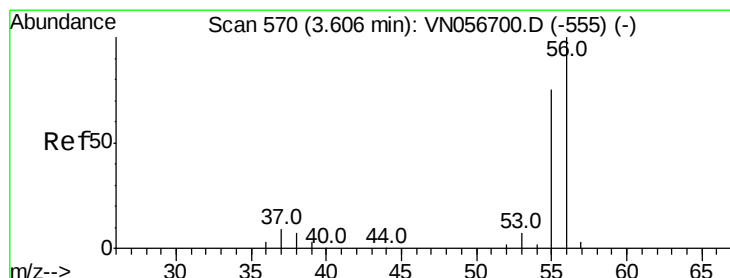
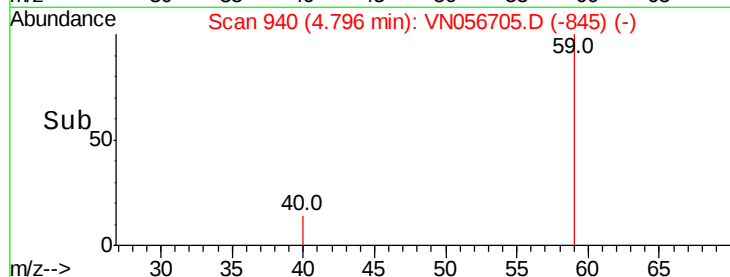
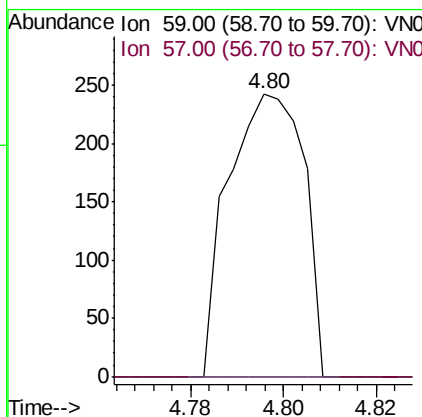
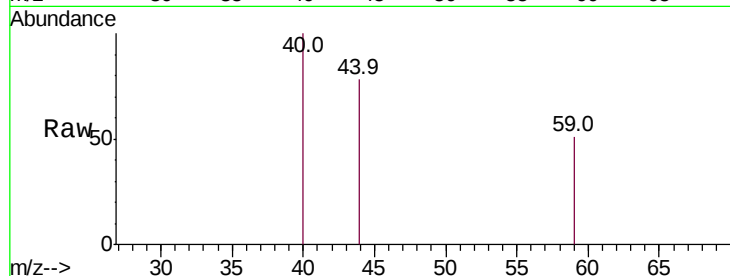
Tert butyl alcohol
Concen: 0.438 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 59 Resp: 275
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

Manual Integrations
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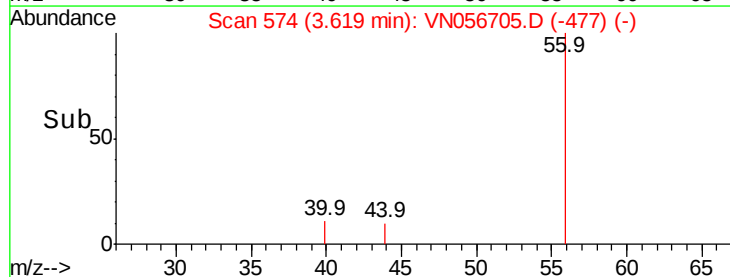
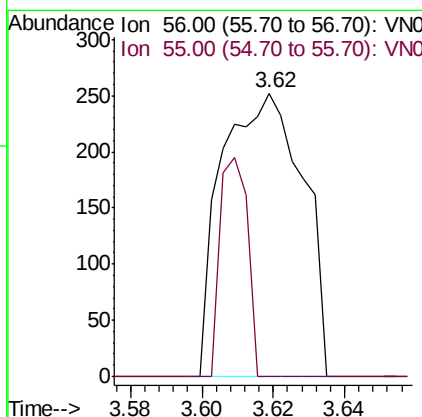
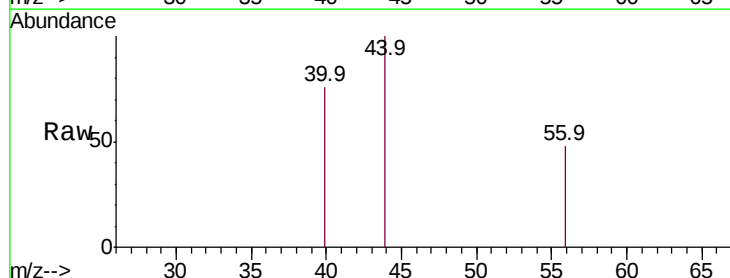
MMDadoda
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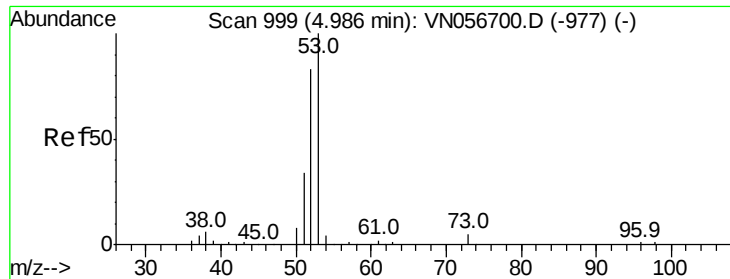


#13

Acrolein
Concen: 1.738 ug/l
RT: 3.62 min Scan# 574
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion: 56 Resp: 396
Ion Ratio Lower Upper
56 100
55 26.3 58.0 87.0#





#15

Acrylonitrile

Concen: 0.647 ug/l m

RT: 5.01 min Scan# 1007

Delta R.T. 0.03 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

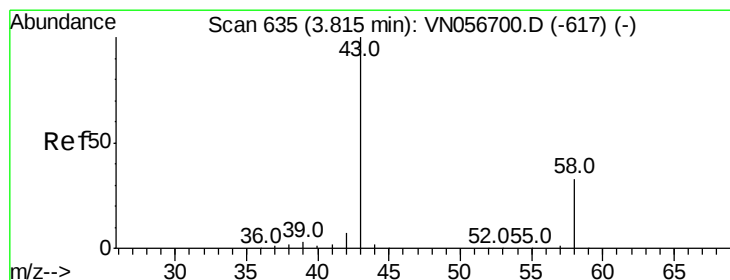
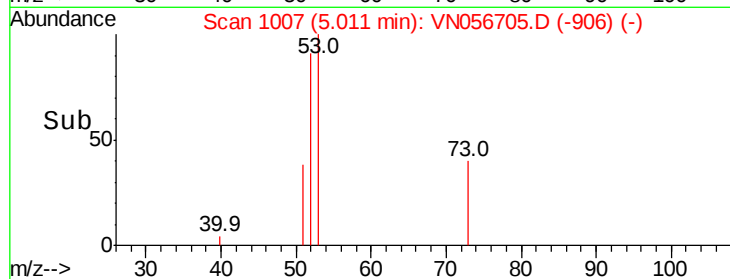
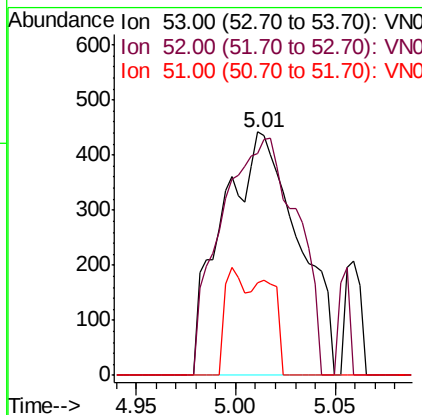
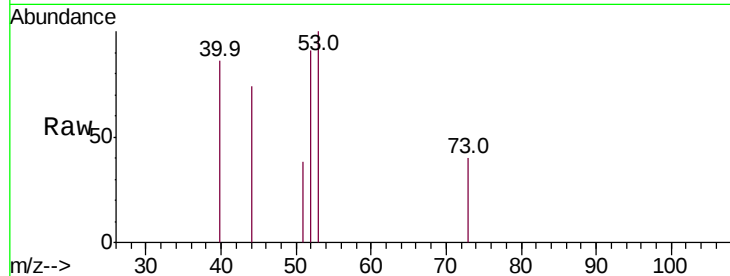
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	53	Resp:	1172
Ion Ratio	Lower	Upper	
53	100		
52	0.0	66.6	99.8#
51	11.3	28.4	42.6#

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#16

Acetone

Concen: 1.156 ug/l

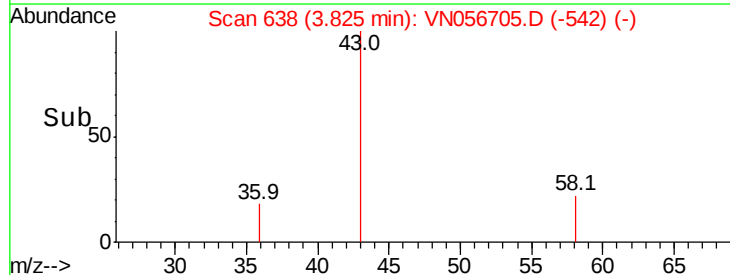
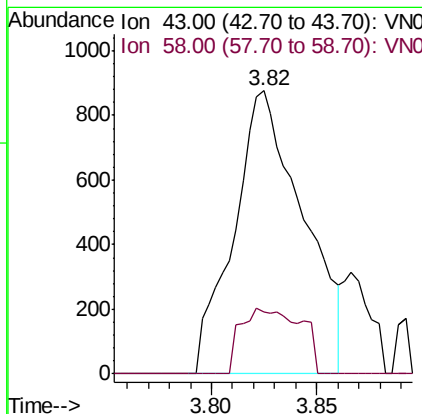
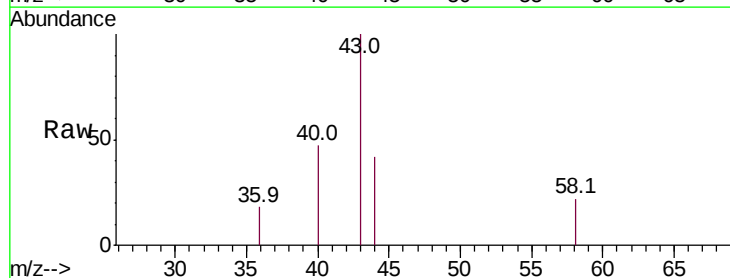
RT: 3.82 min Scan# 638

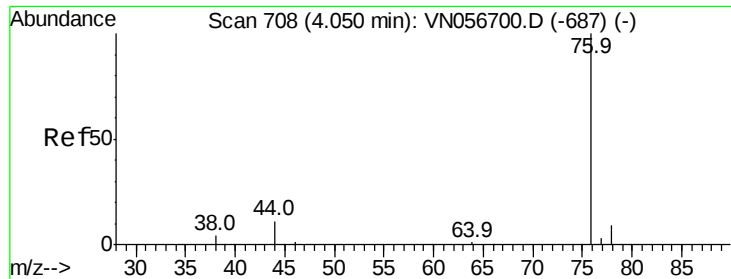
Delta R.T. 0.01 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Tgt Ion:	43	Resp:	2009
Ion Ratio	Lower	Upper	
43	100		
58	22.0	26.7	40.1#





#17

Carbon Disulfide

Concen: 0.321 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 76 Resp: 2722

Ion Ratio Lower Upper

76 100

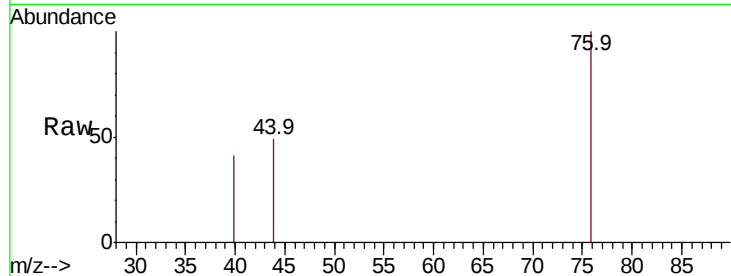
78 0.0 7.4 11.0#

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

1200

1000

800

600

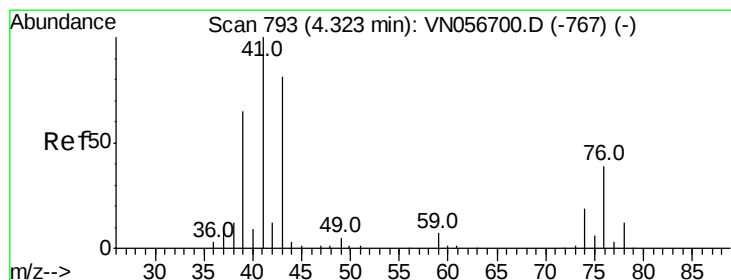
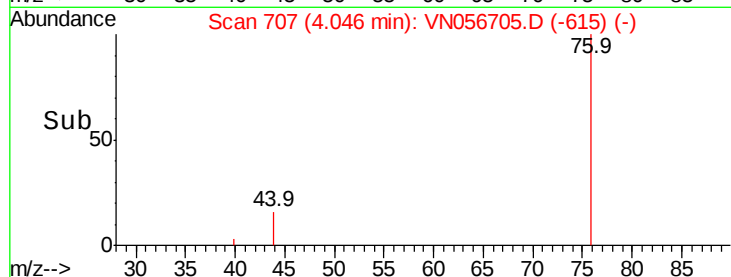
400

200

0

4.00 4.05 4.10

Time-->



#18

Methyl Acetate

Concen: 0.695 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056705.D

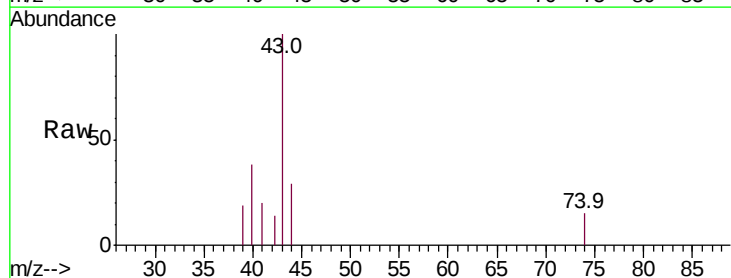
Acq: 15 Jul 2019 12:33

Tgt Ion: 43 Resp: 3242

Ion Ratio Lower Upper

43 100

74 4.4 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

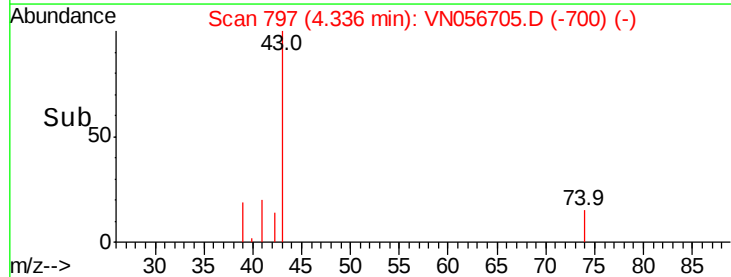
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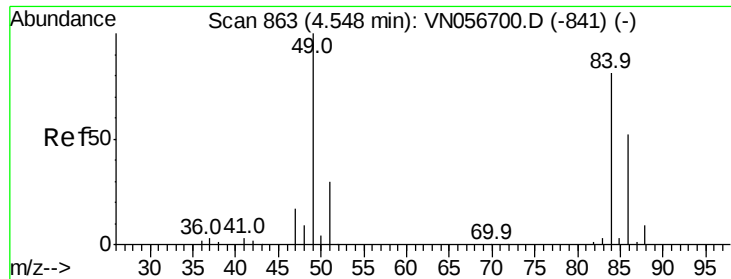
500

0

4.25 4.30 4.35 4.40

Time-->





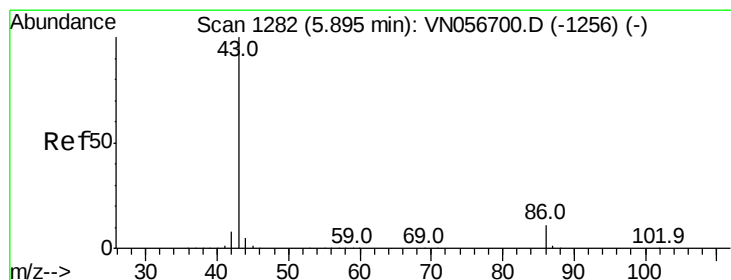
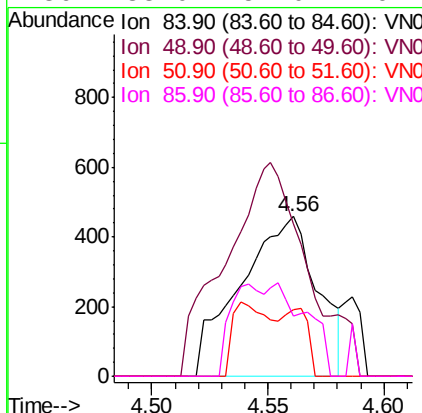
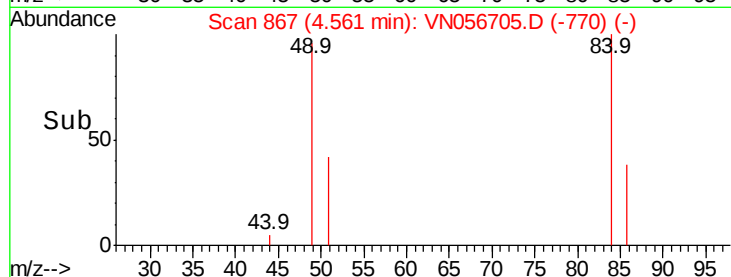
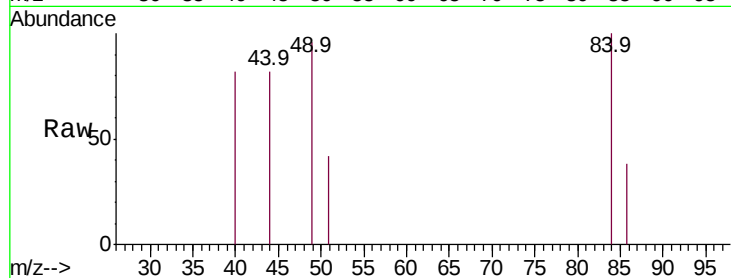
#20
Methvlene Chloride
Concen: 0.280 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 84 Resp: 1062
Ion Ratio Lower Upper
84 100
49 57.9 98.2 147.4#
51 42.1 29.6 44.4
86 38.0 51.0 76.4#

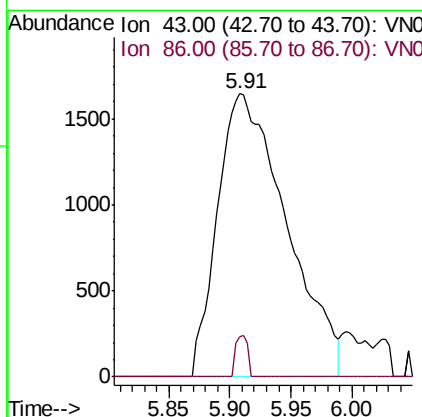
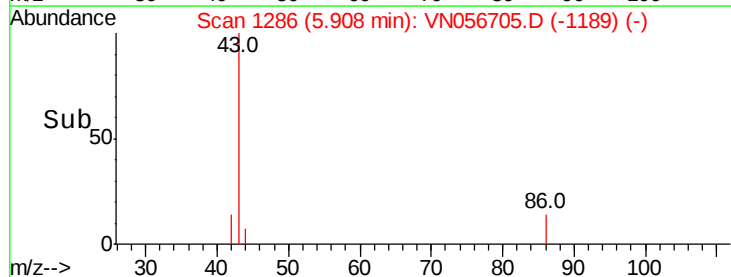
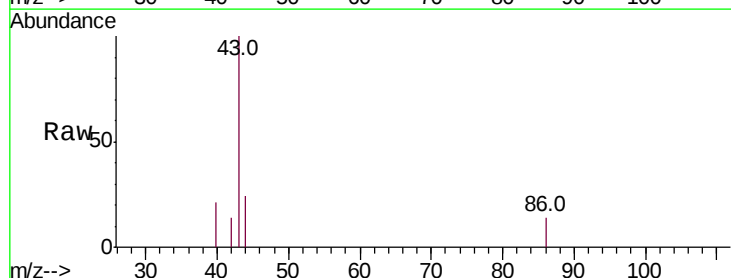
Manual Integrations
APPROVED

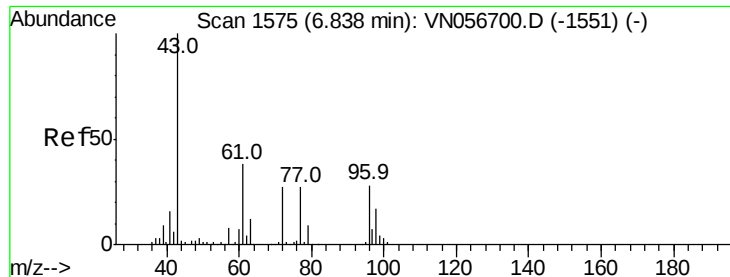
MMDadoda
7/17/2019 1:31:28 AM



#23
Vinyl Acetate
Concen: 0.728 ug/l
RT: 5.91 min Scan# 1286
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion: 43 Resp: 6457
Ion Ratio Lower Upper
43 100
86 14.3 8.5 12.7#





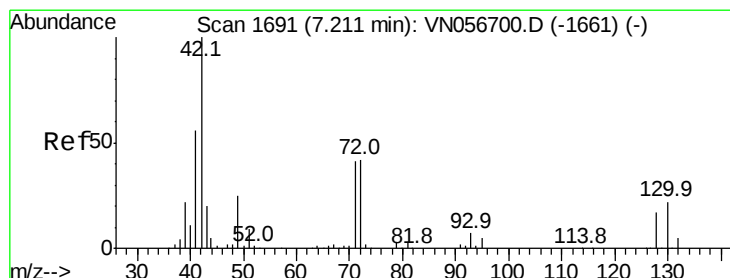
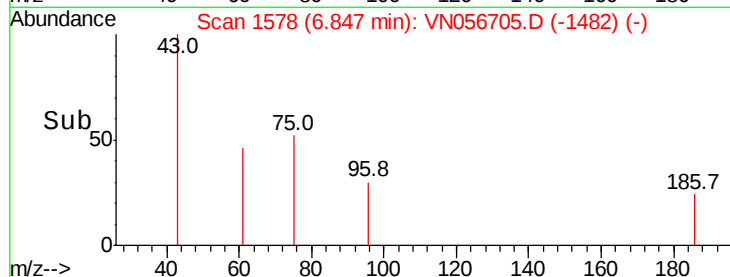
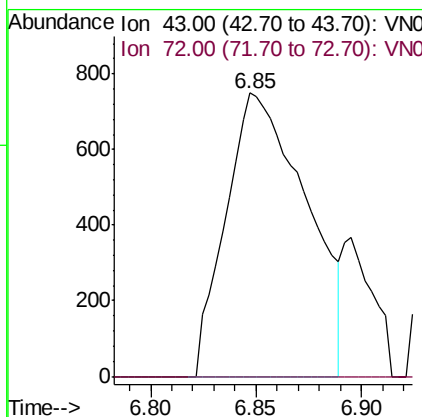
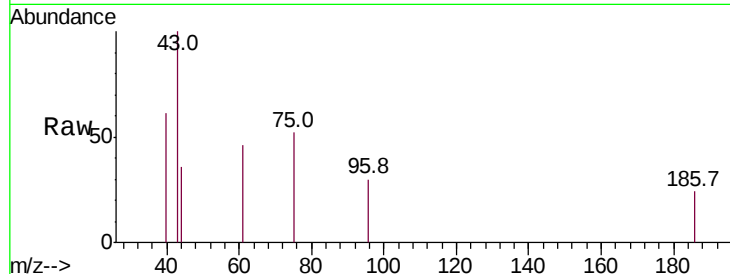
#25
2-Butanone
Concen: 0.780 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 1981
Ion Ratio Lower Upper
43 100
72 0.0 21.2 31.8#

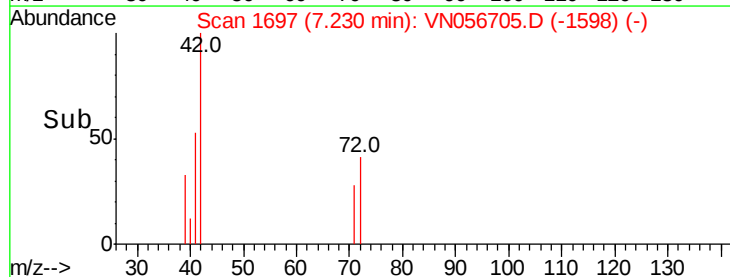
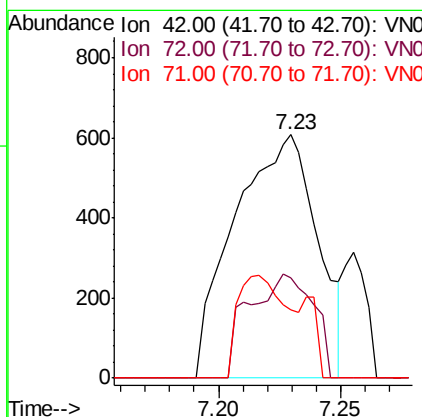
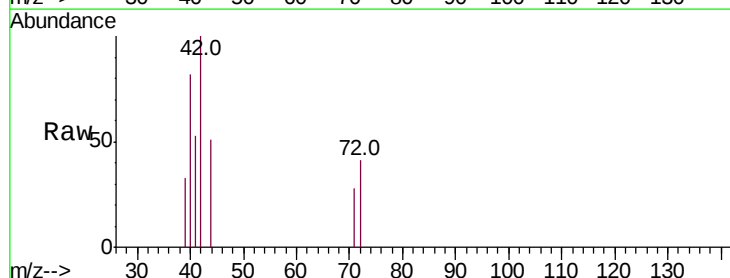
Manual Integrations
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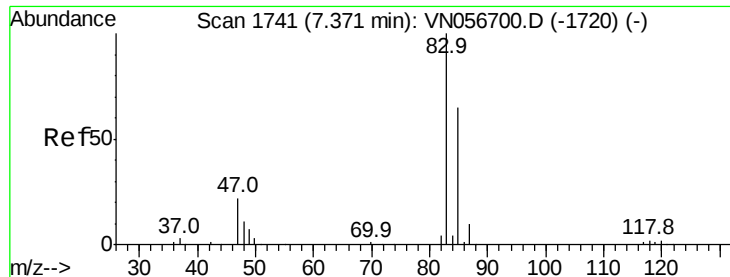
MMDadoda
7/17/2019 1:31:28 AM



#29
Tetrahydrofuran
Concen: 0.864 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion: 42 Resp: 1431
Ion Ratio Lower Upper
42 100
72 32.9 33.5 50.3#
71 25.4 31.8 47.8#





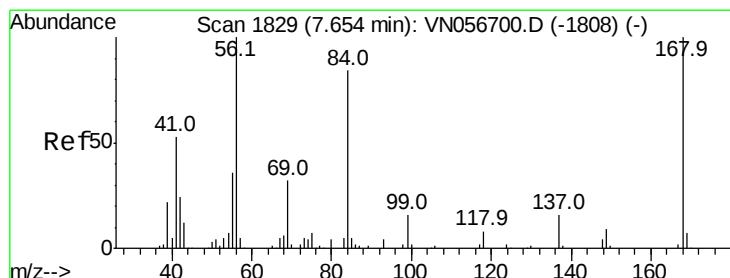
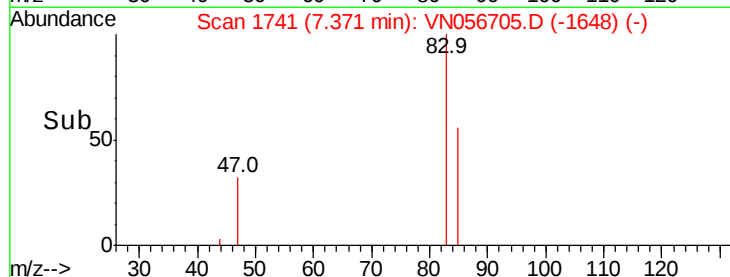
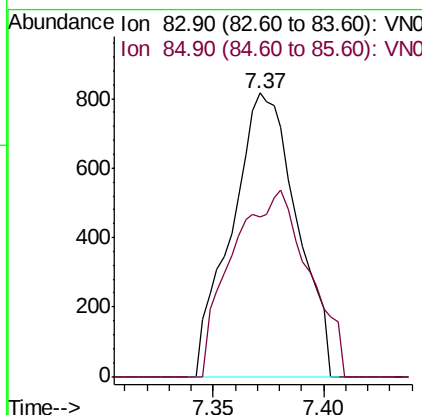
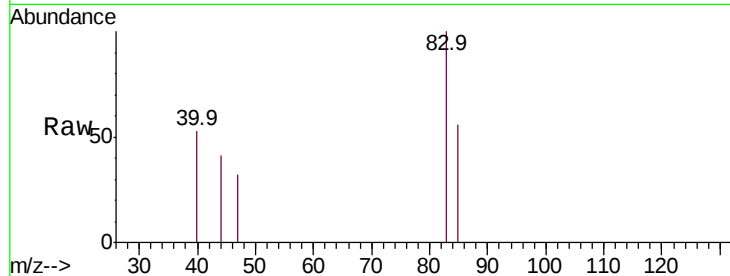
#30
Chloroform
Concen: 0.263 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 83 Resp: 1667
Ion Ratio Lower Upper
83 100
85 56.3 51.9 77.9

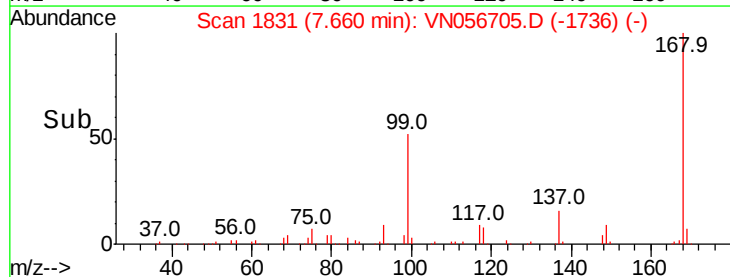
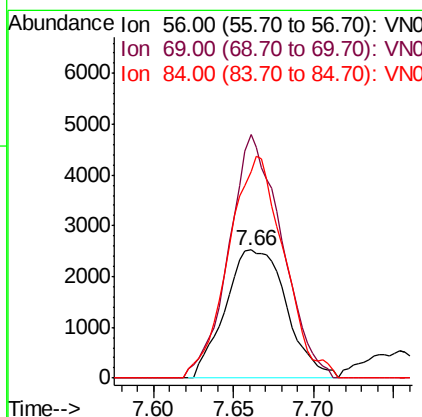
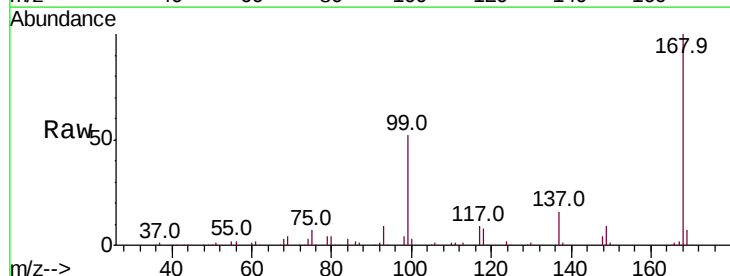
Manual Integrations
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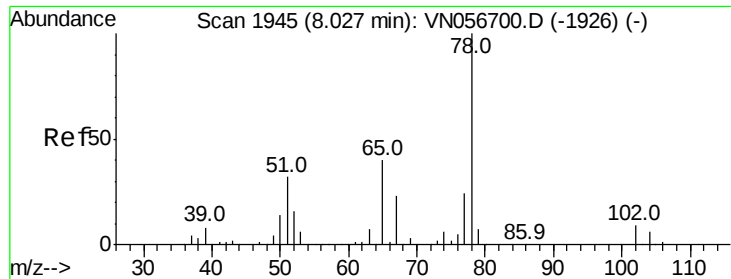
MMDadoda
7/17/2019 1:31:28 AM



#31
Cyclohexane
Concen: 1.099 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion: 56 Resp: 6625
Ion Ratio Lower Upper
56 100
69 190.4 25.8 38.8#
84 161.7 67.4 101.0#





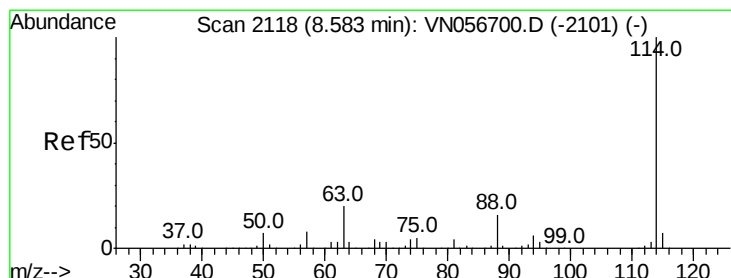
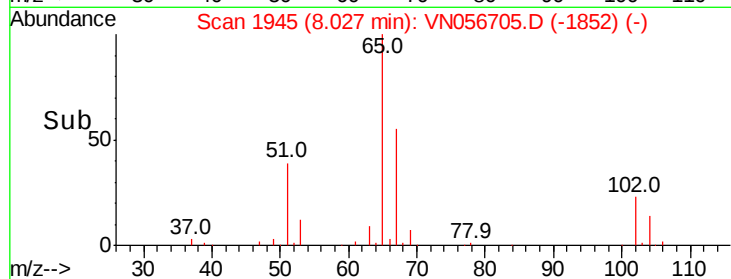
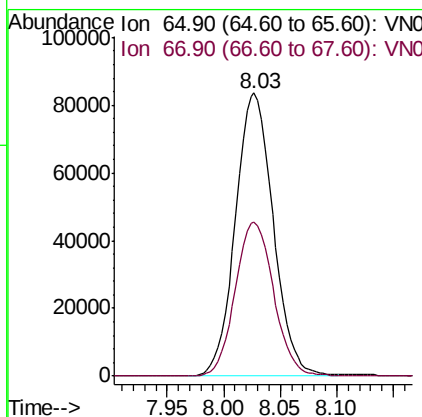
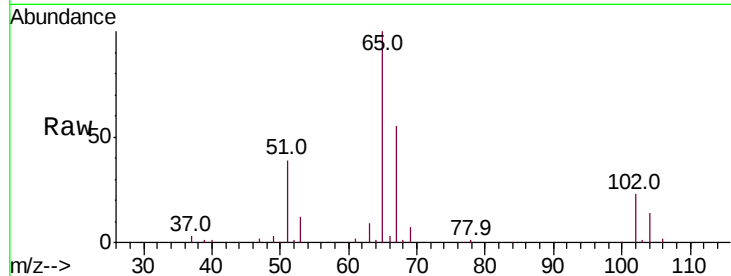
#33
 1,2-Dichloroethane-d4
 Concen: 51.669 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	194849		
67	55.2	0.0	109.0	

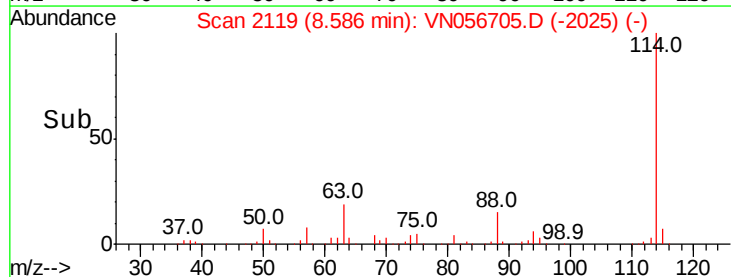
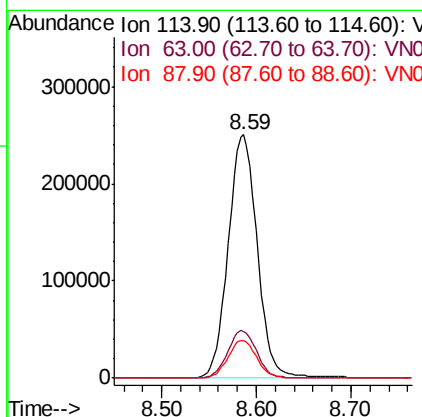
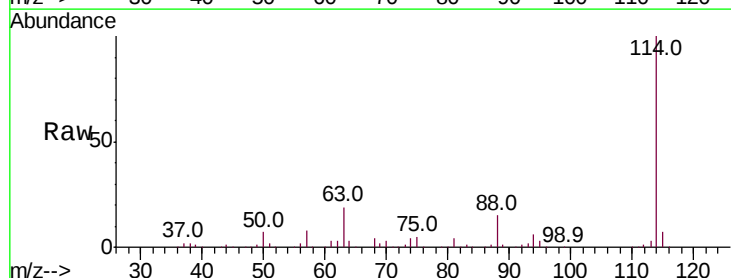
Manual Integrations
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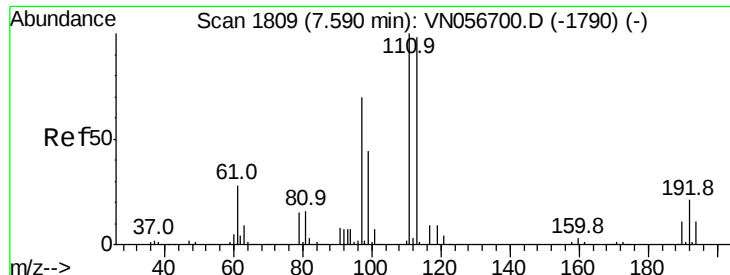
MMDadoda
 7/17/2019 1:31:28 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	533995		
63	19.2	0.0	39.4	
88	15.5	0.0	31.2	





#35

Dibromofluoromethane

Concen: 49.492 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:113 Resp: 164471

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.6

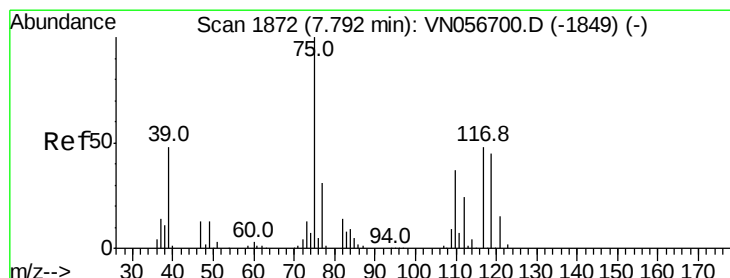
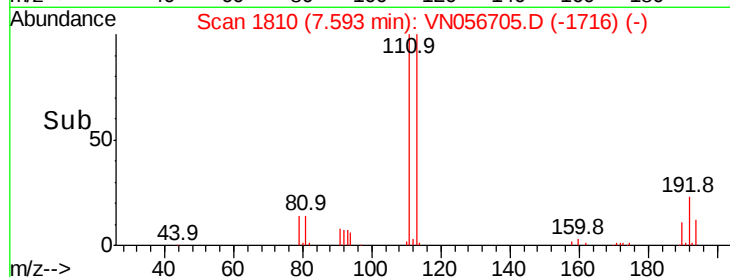
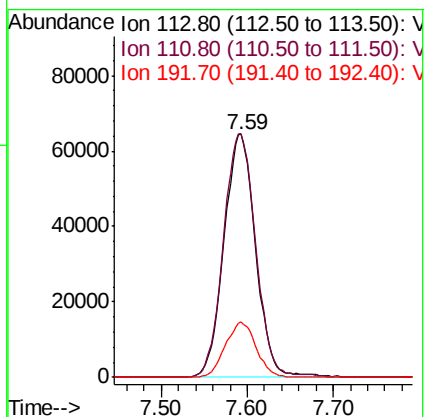
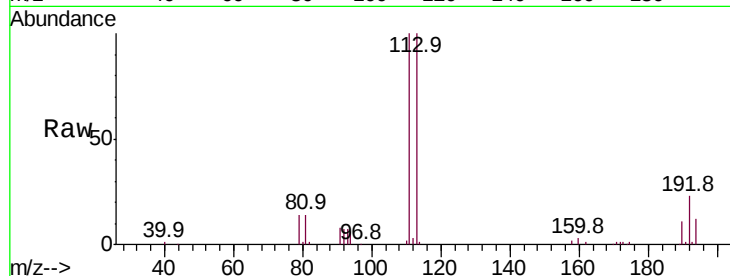
192 22.1 17.5 26.3

Manual Integrations

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#36

1,1-Dichloropropene

Concen: 0.243 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. -0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

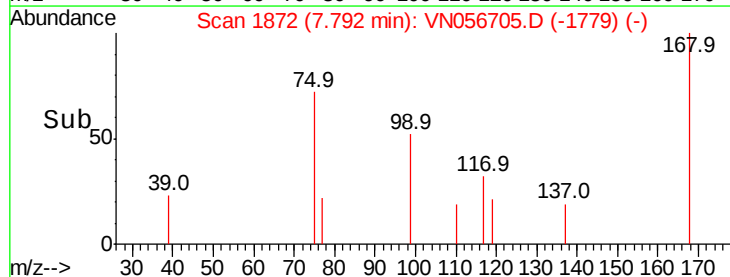
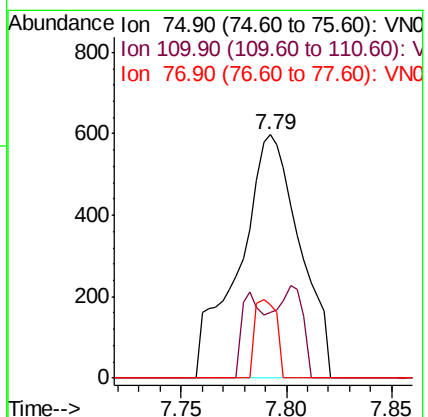
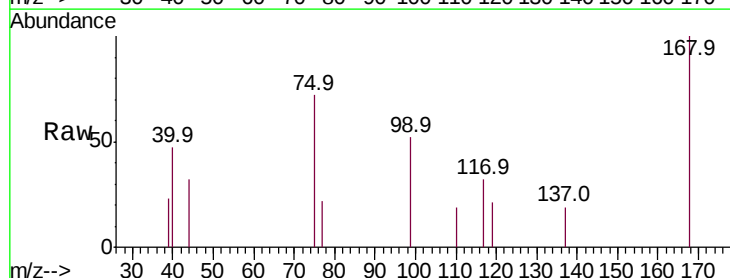
Tgt Ion: 75 Resp: 1203

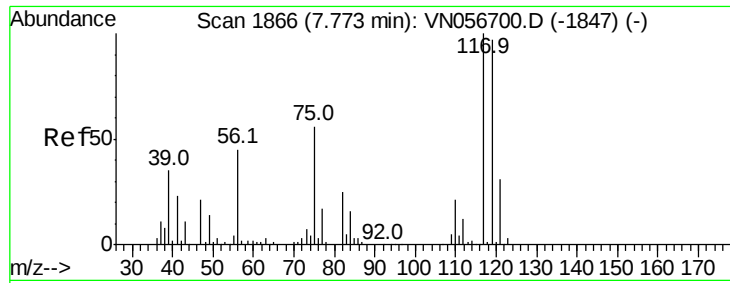
Ion Ratio Lower Upper

75 100

110 11.7 18.4 55.4#

77 11.5 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 0.287 ug/l m

RT: 7.76 min Scan# 1863

Delta R.T. -0.01 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:117 Resp: 1330

Ion Ratio Lower Upper

117 100

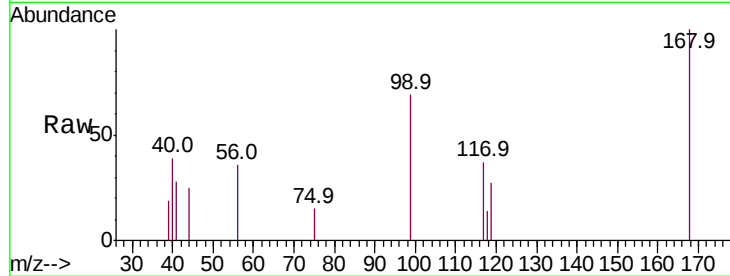
119 71.1 77.5 116.3#

121 0.0 24.7 37.1#

Manual Integrations
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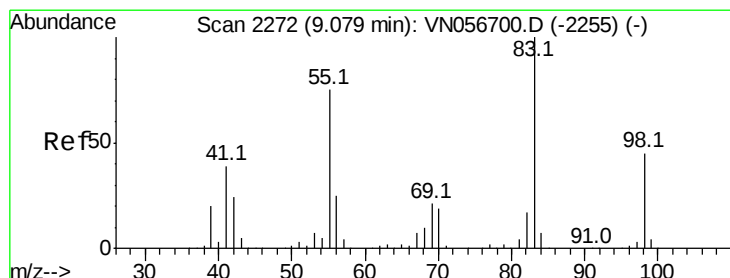
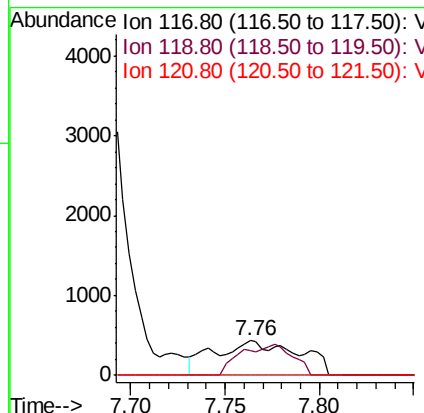
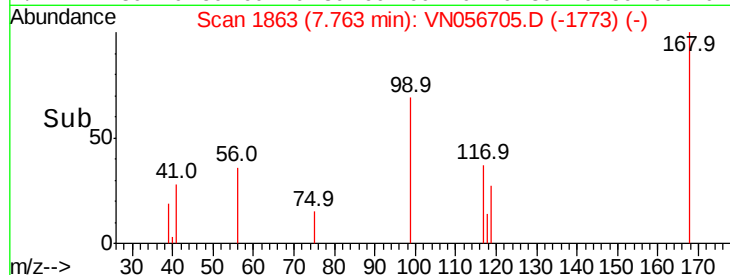
7/17/2019 1:31:28 AM



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



#39

Methylcyclohexane

Concen: 0.232 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

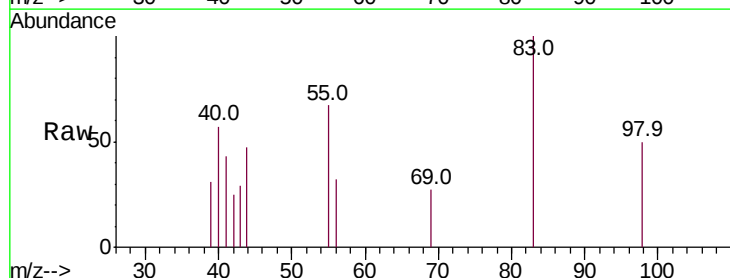
Tgt Ion: 83 Resp: 1415

Ion Ratio Lower Upper

83 100

55 67.5 60.4 90.6

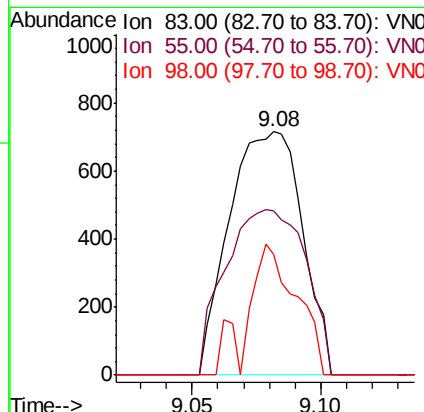
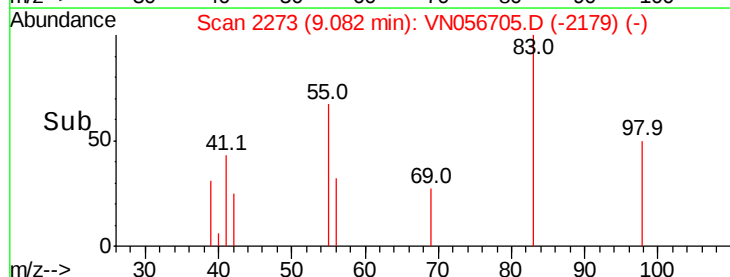
98 49.7 35.8 53.8

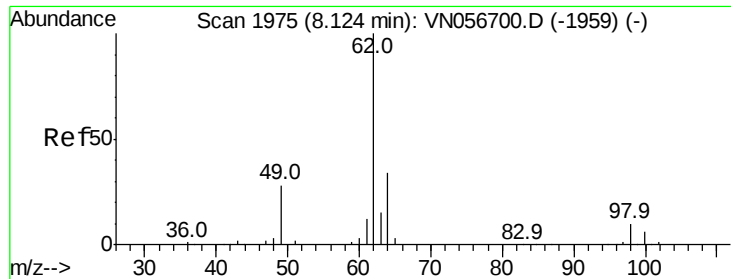


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





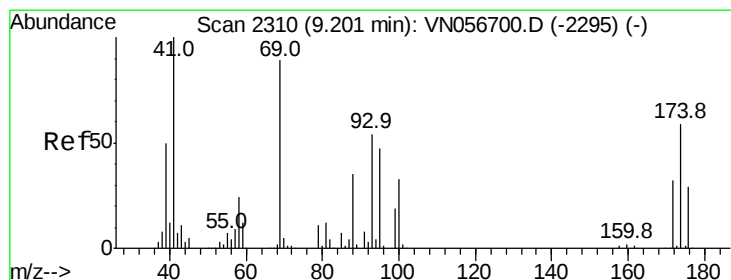
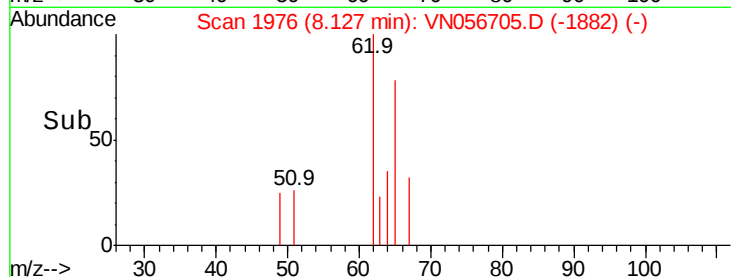
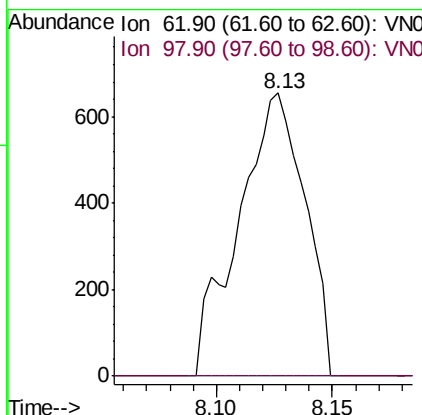
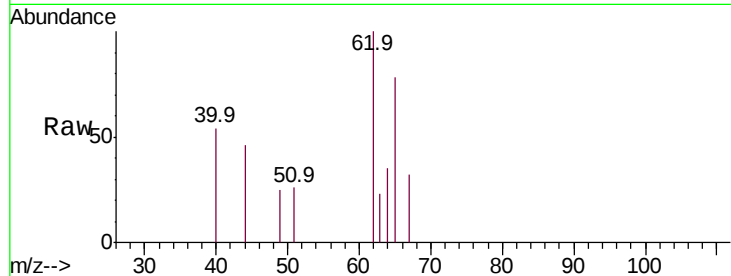
#42
 1,2-Dichloroethane
 Concen: 0.271 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	19.8

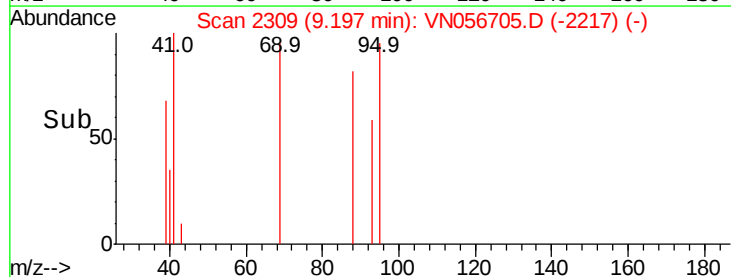
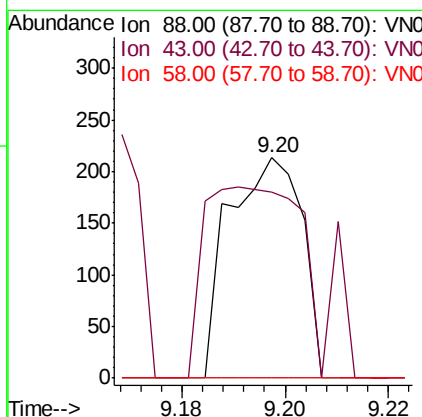
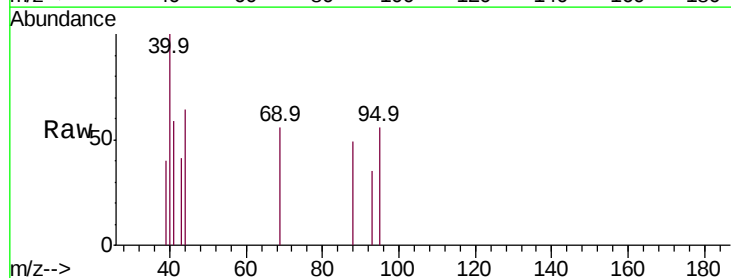
Manual Integrations
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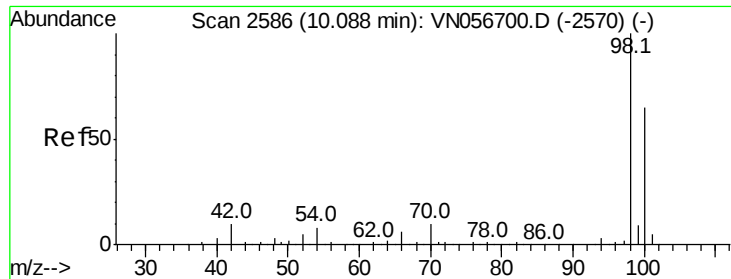
MMDadoda
 7/17/2019 1:31:28 AM



#49
 1,4-Dioxane
 Concen: 2.751 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Tgt Ion	Ratio	Lower	Upper
88	100		
43	128.2	23.7	35.5#
58	0.0	55.6	83.4#





#50

Toluene-d8

Concen: 48.776 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 98 Resp: 626033

Ion Ratio Lower Upper

98 100

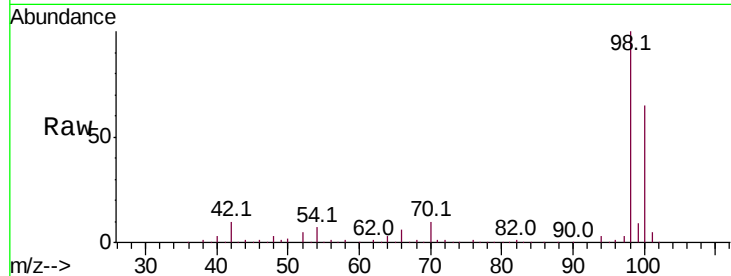
100 64.4 52.0 78.0

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Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

10.09

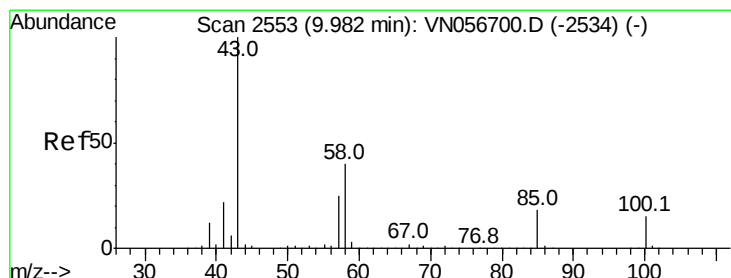
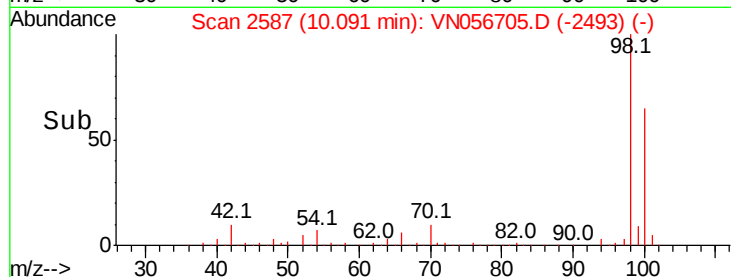
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.971 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056705.D

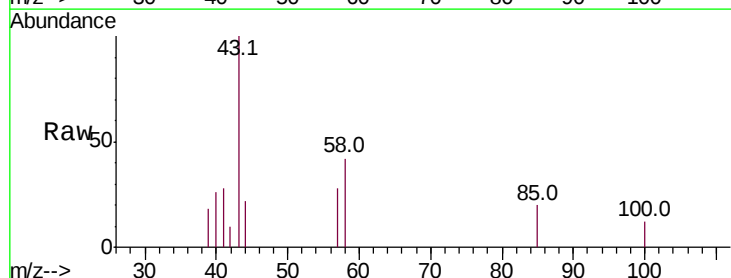
Acq: 15 Jul 2019 12:33

Tgt Ion: 43 Resp: 4814

Ion Ratio Lower Upper

43 100

58 33.4 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN056705.D (-2460) (-)

Ion 58.00 (57.70 to 58.70): VN056705.D (-2460) (-)

9.99

2000

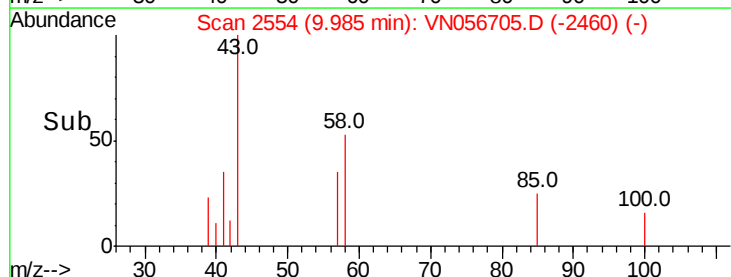
1500

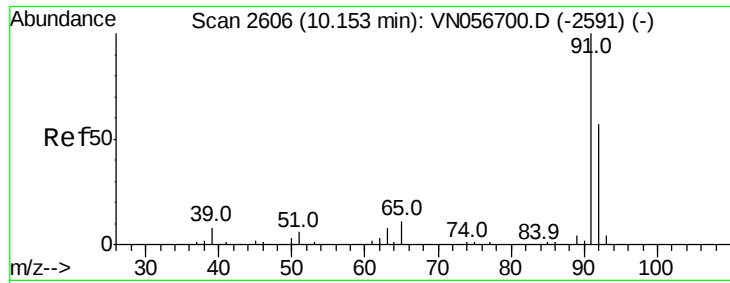
1000

500

0

Time-->





#52

Toluene

Concen: 0.200 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 92 Resp: 1802

Ion Ratio Lower Upper

92 100

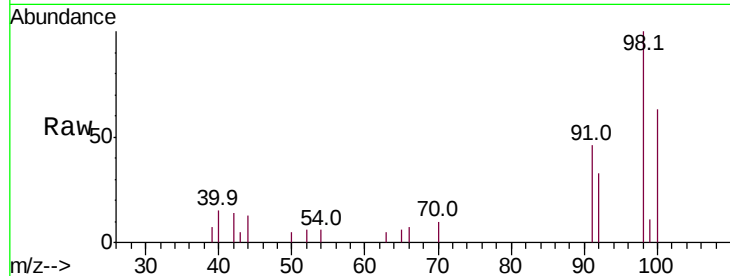
91 178.4 139.9 209.9

Manual Integrations

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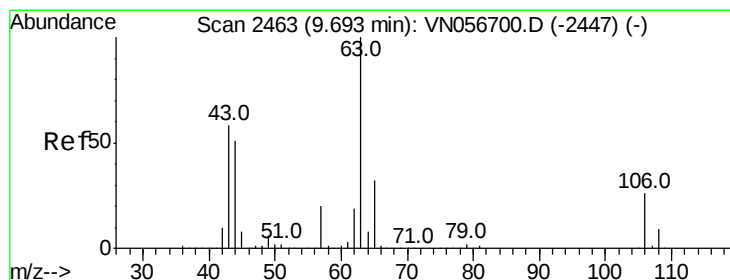
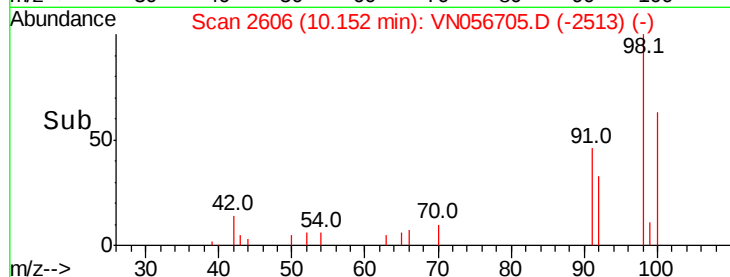
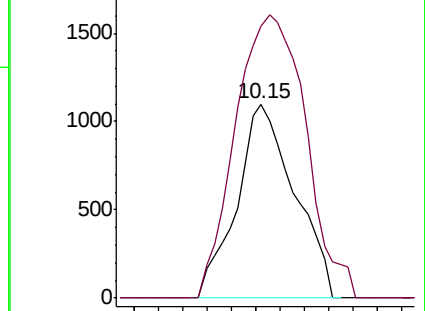
MMDadoda

7/17/2019 1:31:28 AM



Abundance Ion 92.00 (91.70 to 92.70): VN056705.D (-2513) (-)

Ion 91.00 (90.70 to 91.70): VN056705.D (-2513) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 0.738 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.01 min

Lab File: VN056705.D

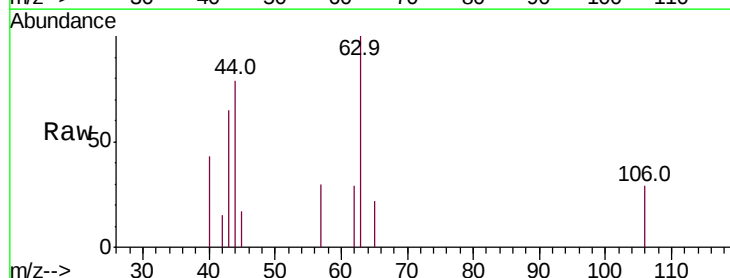
Acq: 15 Jul 2019 12:33

Tgt Ion: 63 Resp: 1927

Ion Ratio Lower Upper

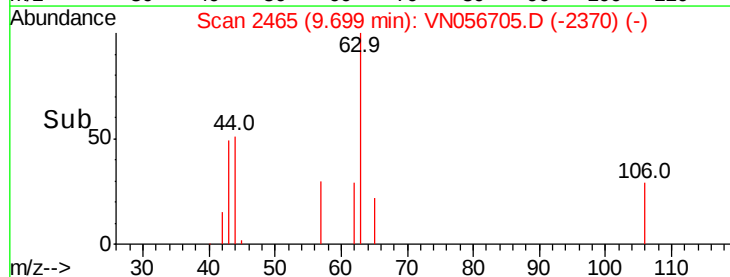
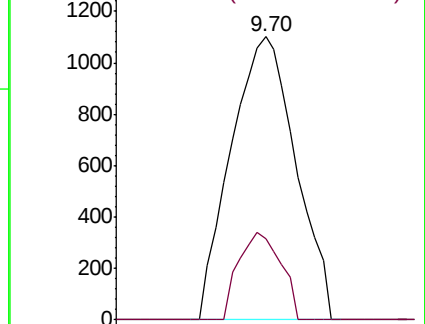
63 100

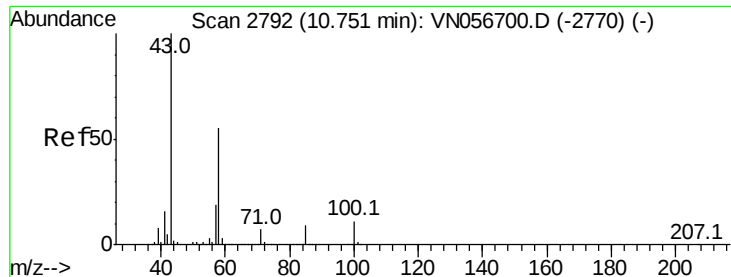
106 20.3 21.2 31.8#



Abundance Ion 62.90 (62.60 to 63.60): VN056705.D (-2370) (-)

Ion 105.90 (105.60 to 106.60): VN056705.D (-2370) (-)





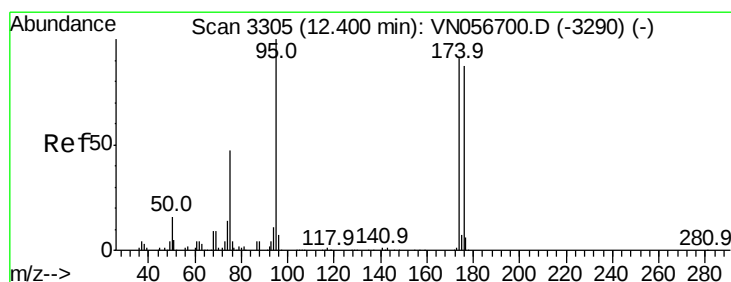
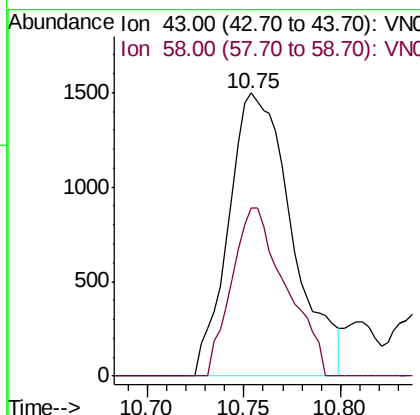
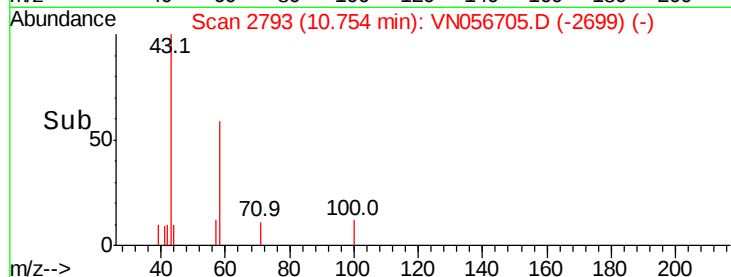
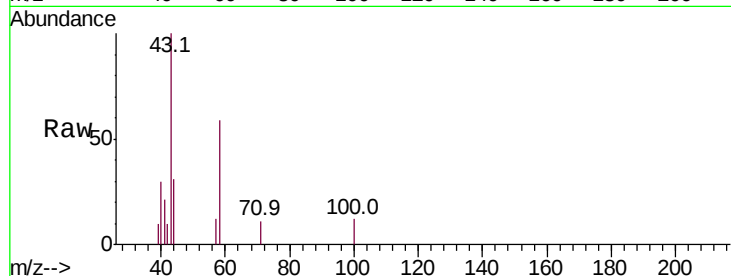
#59
2-Hexanone
Concen: 0.958 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 3408
Ion Ratio Lower Upper
43 100
58 50.8 27.9 83.6

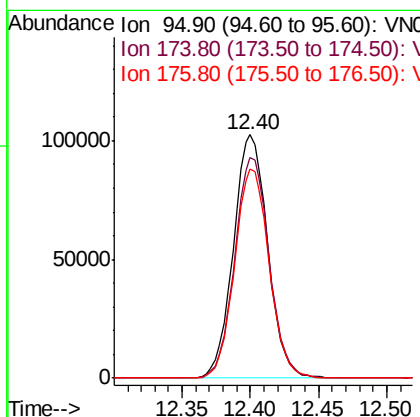
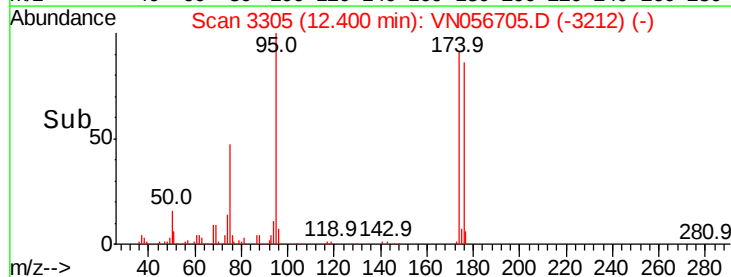
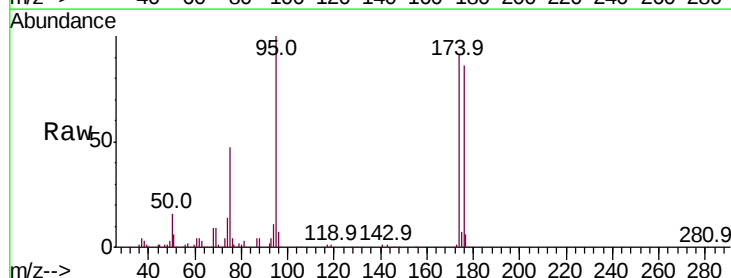
Manual Integrations
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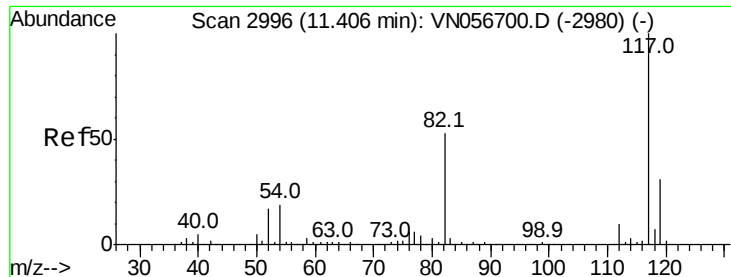
MMDadoda
7/17/2019 1:31:28 AM



#62
4-Bromofluorobenzene
Concen: 41.279 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion: 95 Resp: 178669
Ion Ratio Lower Upper
95 100
174 91.2 0.0 180.0
176 86.6 0.0 173.2





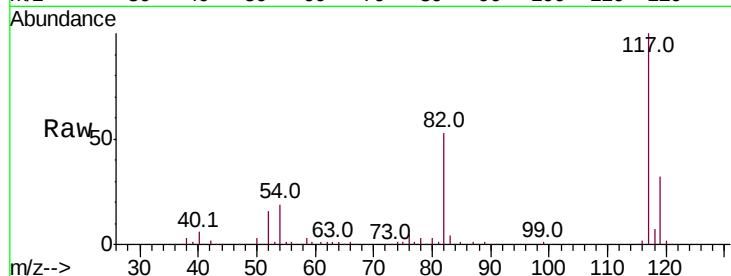
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.2	63.2
119	32.0	25.2	37.8

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MMDadoda
7/17/2019 1:31:28 AM

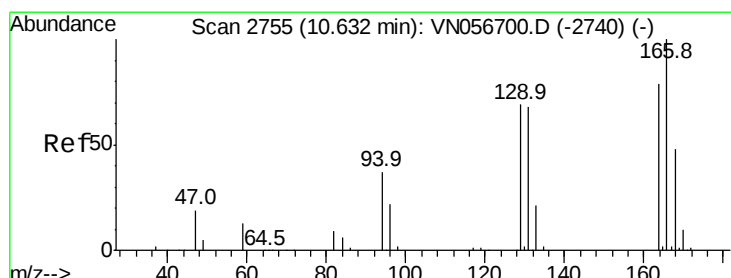
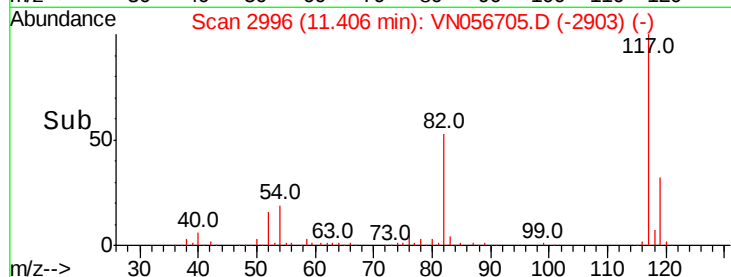
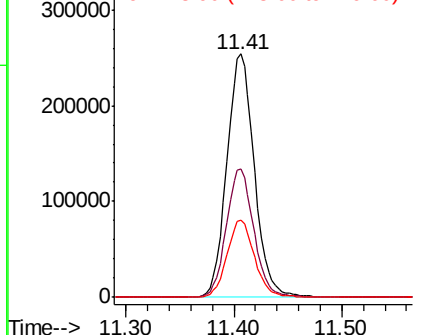


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 0.277 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	92.9	101.4	152.2#
129	66.6	69.6	104.4#
131	79.2	69.0	103.4

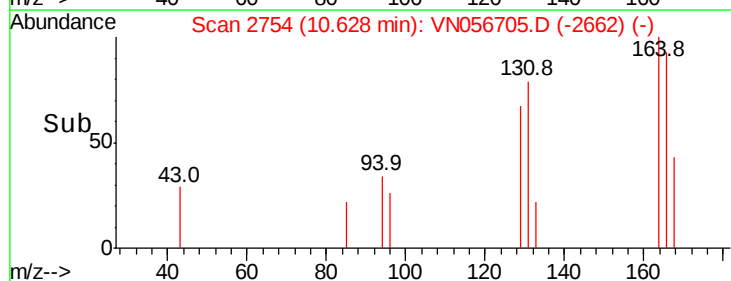
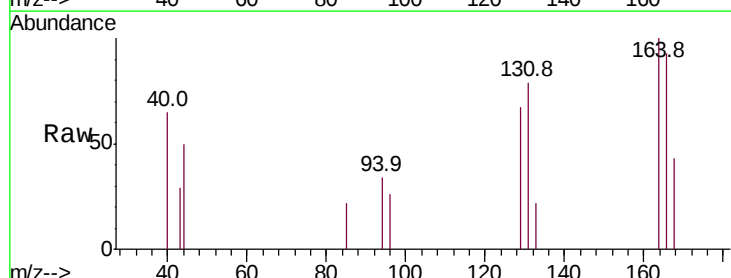
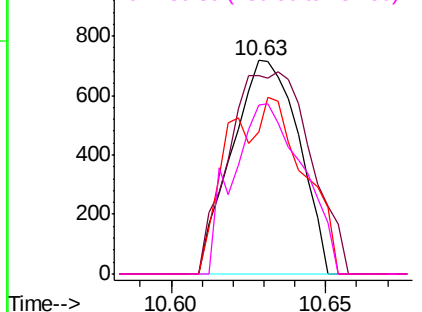
Abundance

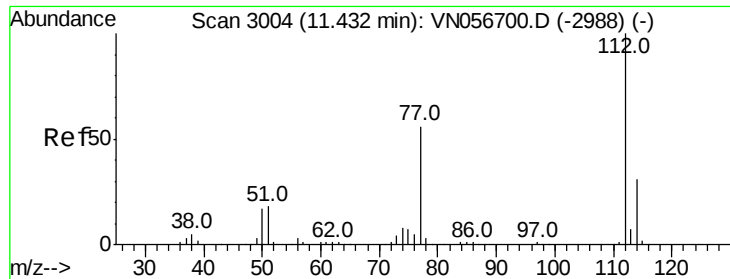
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





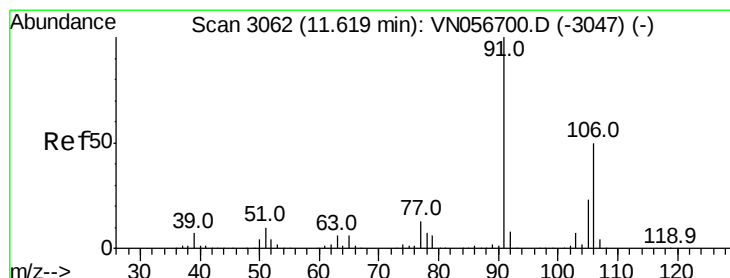
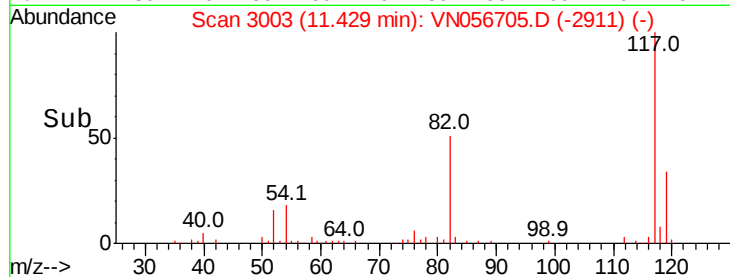
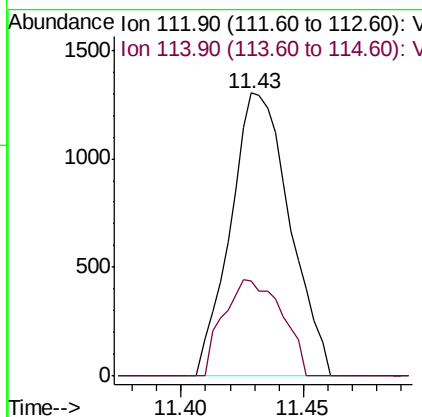
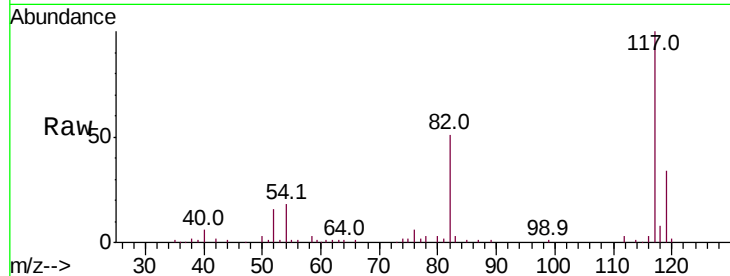
#65
Chlorobenzene
Concen: 0.238 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion:112 Resp: 2192
Ion Ratio Lower Upper
112 100
114 33.6 25.2 37.8

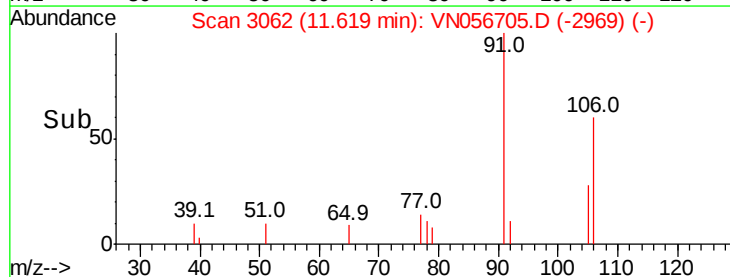
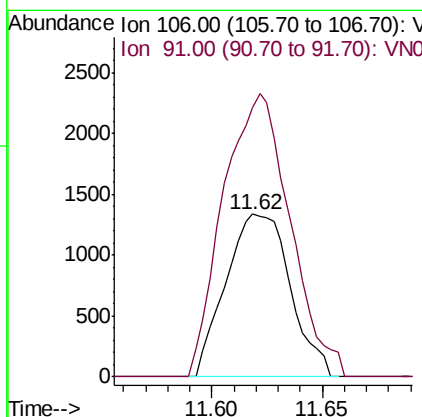
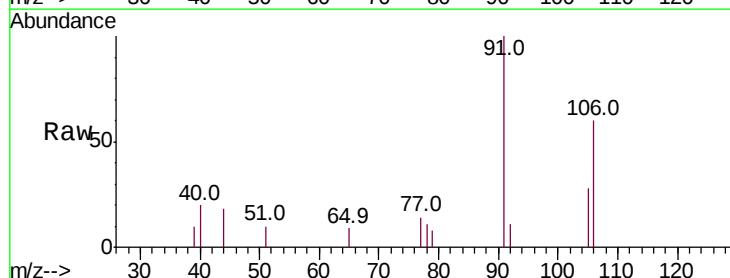
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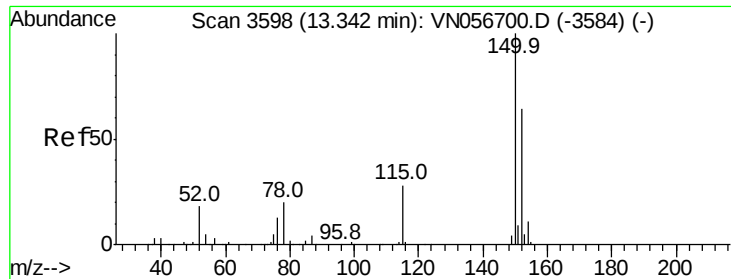
MMDadoda
7/17/2019 1:31:28 AM



#68
m/p-Xylenes
Concen: 0.446 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion:106 Resp: 2701
Ion Ratio Lower Upper
106 100
91 180.7 160.5 240.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:152 Resp: 143833

Ion Ratio Lower Upper

152 100

115 55.8 28.2 84.7

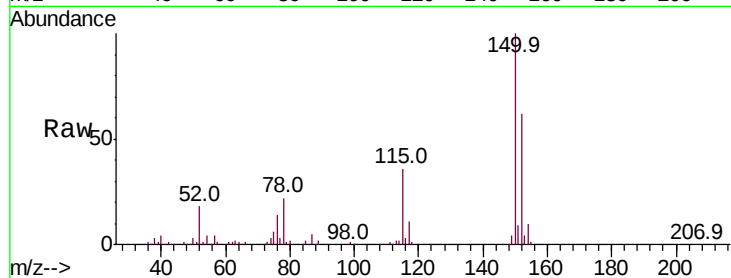
150 158.3 0.0 345.8

Manual Integrations

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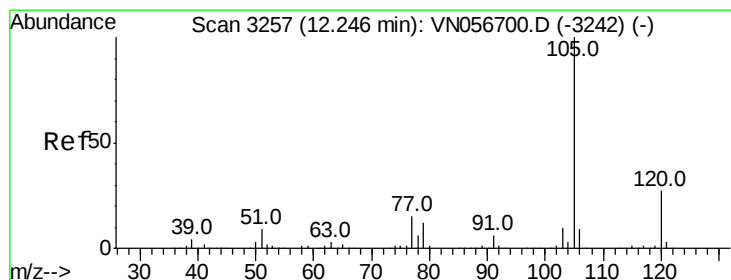
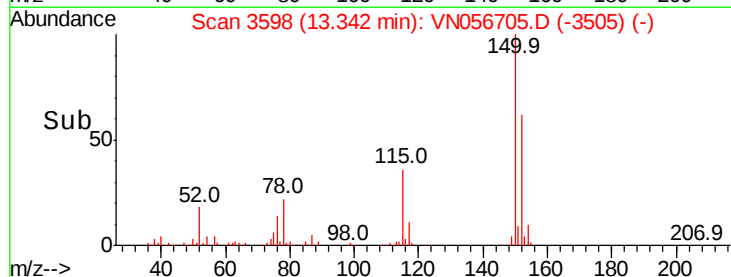
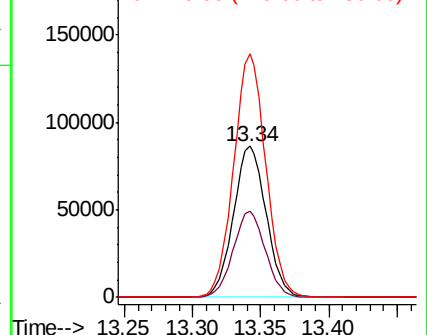
7/17/2019 1:31:28 AM



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: 0.260 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.01 min

Lab File: VN056705.D

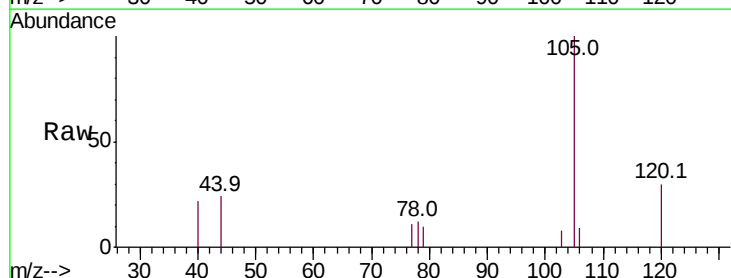
Acq: 15 Jul 2019 12:33

Tgt Ion:105 Resp: 3019

Ion Ratio Lower Upper

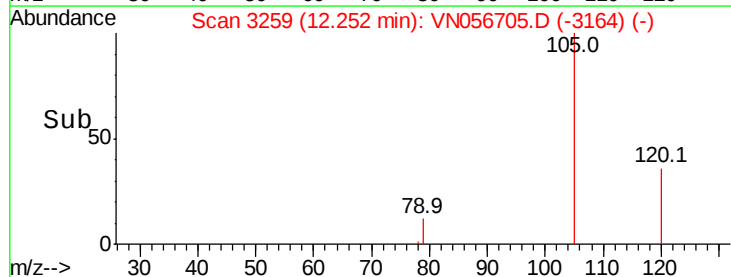
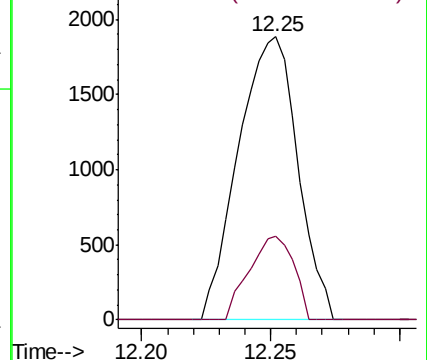
105 100

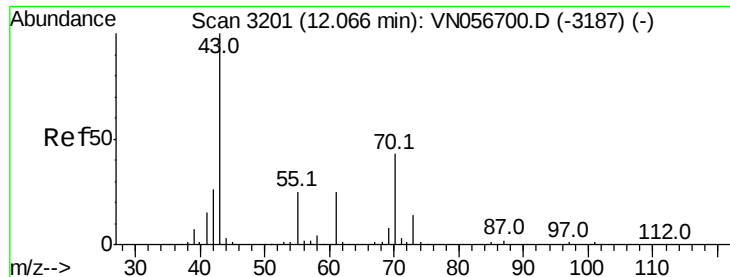
120 22.3 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.213 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion: 43 Resp: 919

Ion Ratio Lower Upper

43 100

70 16.6 34.5 51.7#

55 0.0 20.2 30.2#

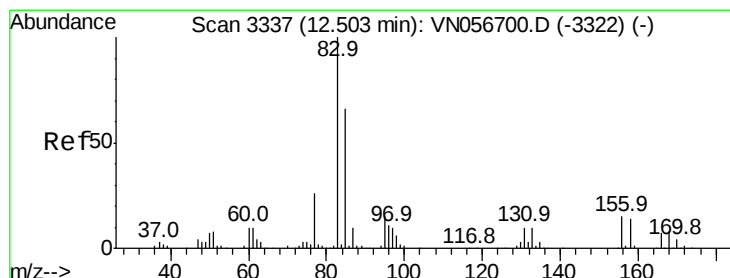
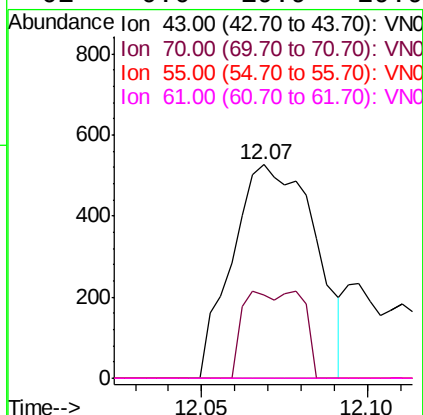
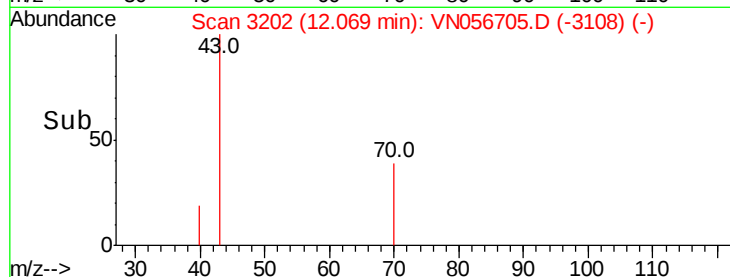
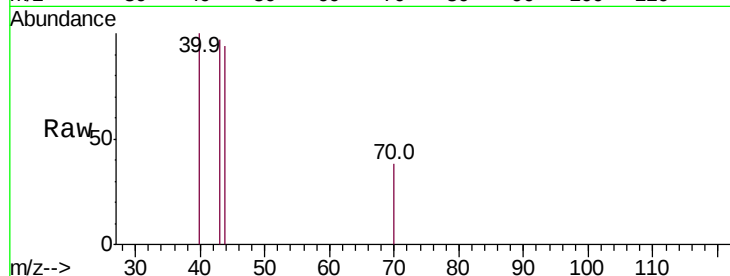
61 0.0 19.9 29.9#

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#75

1,1,2,2-Tetrachloroethane

Concen: 0.209 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

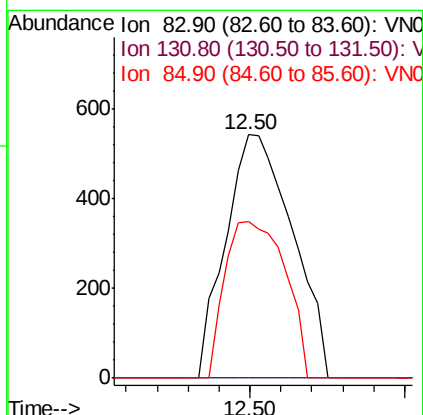
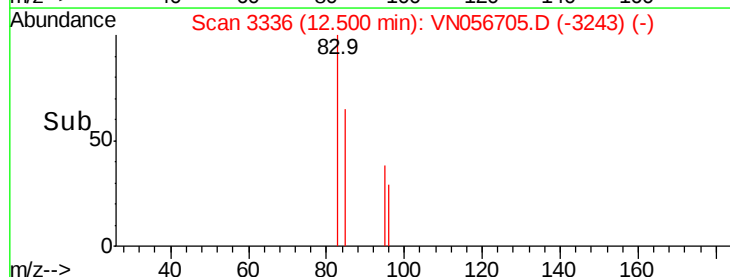
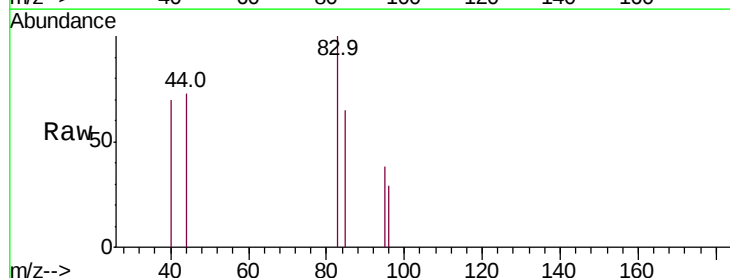
Tgt Ion: 83 Resp: 816

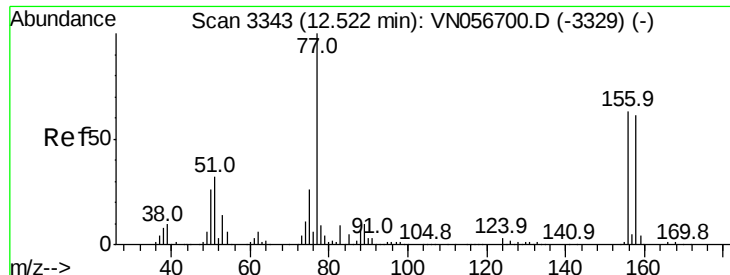
Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 58.1 32.6 97.8





#77

Bromobenzene

Concen: 0.228 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:156 Resp: 691

Ion Ratio Lower Upper

156 100

77 253.5 97.2 291.6

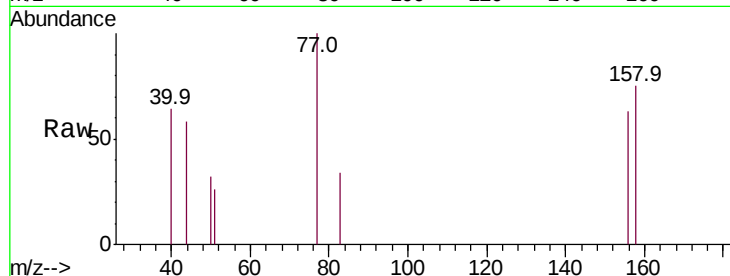
158 106.4 48.9 146.8

Manual Integrations

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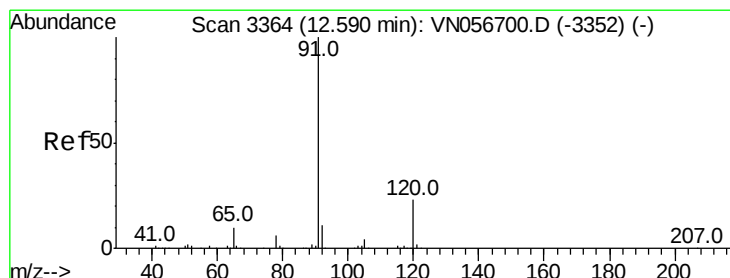
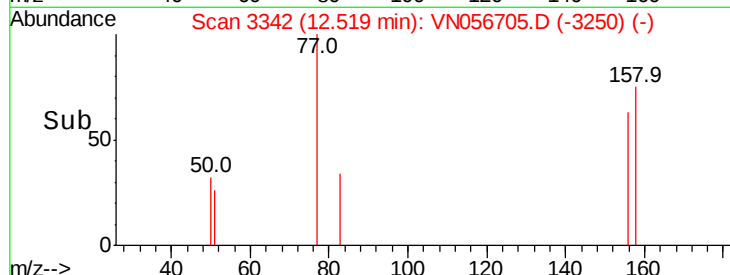
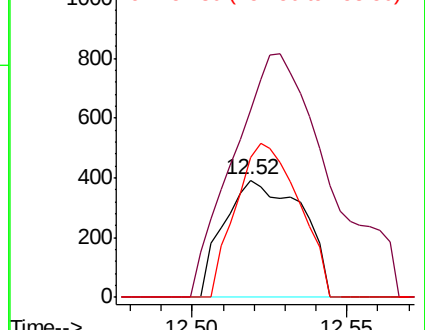
7/17/2019 1:31:28 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.263 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056705.D

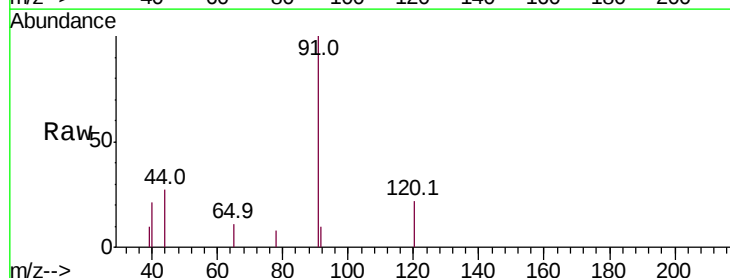
Acq: 15 Jul 2019 12:33

Tgt Ion: 91 Resp: 3389

Ion Ratio Lower Upper

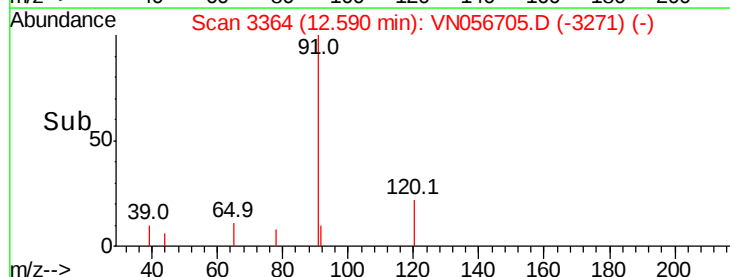
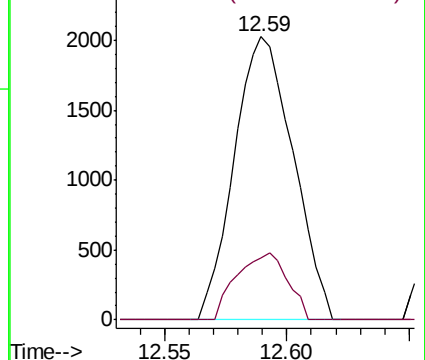
91 100

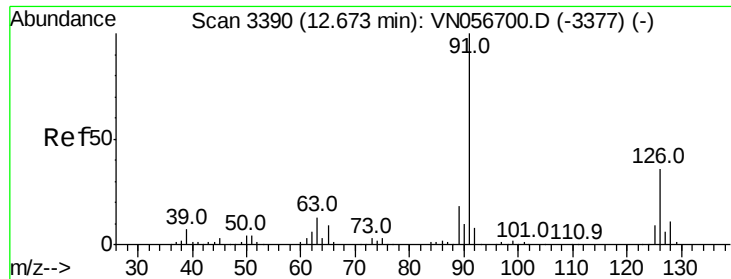
120 20.5 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





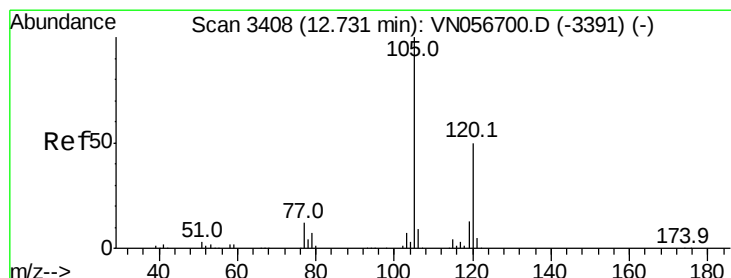
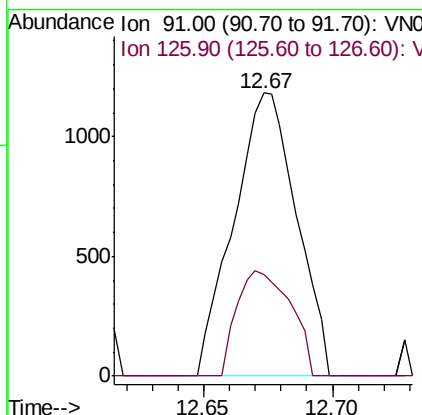
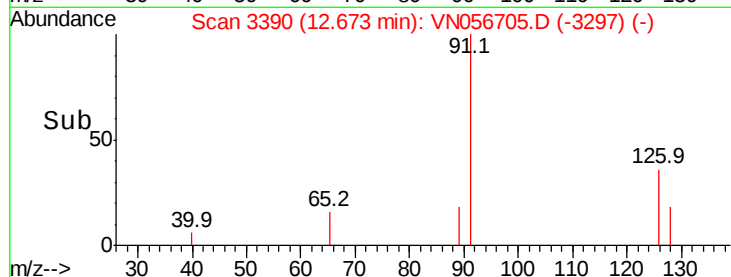
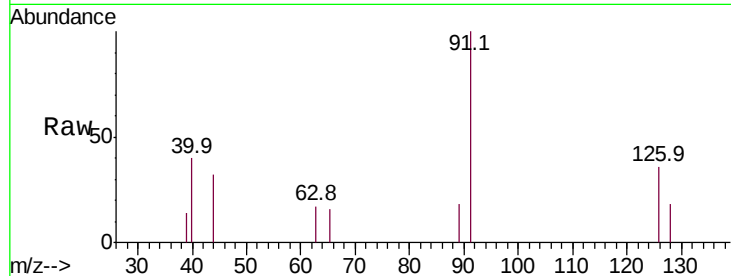
#79
 2-Chlorotoluene
 Concen: 0.252 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion: 91 Resp: 2006
 Ion Ratio Lower Upper
 91 100
 126 32.0 17.9 53.7

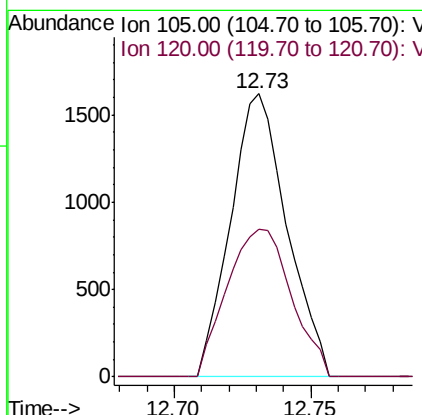
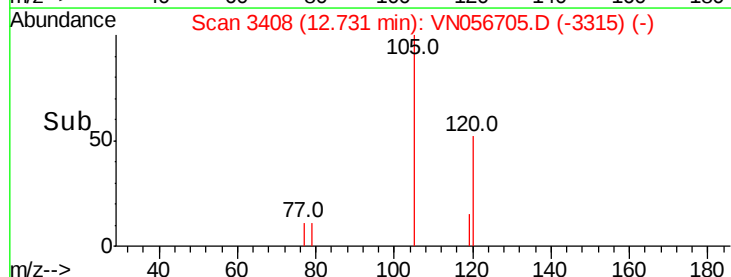
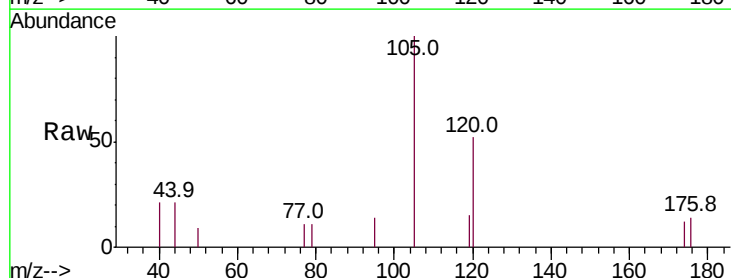
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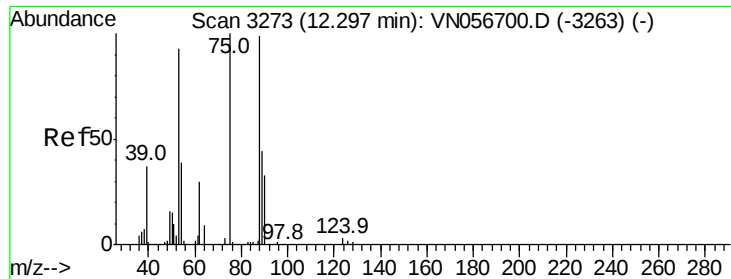
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#80
 1,3,5-Trimethylbenzene
 Concen: 0.236 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Tgt Ion: 105 Resp: 2322
 Ion Ratio Lower Upper
 105 100
 120 59.6 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 81.072 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

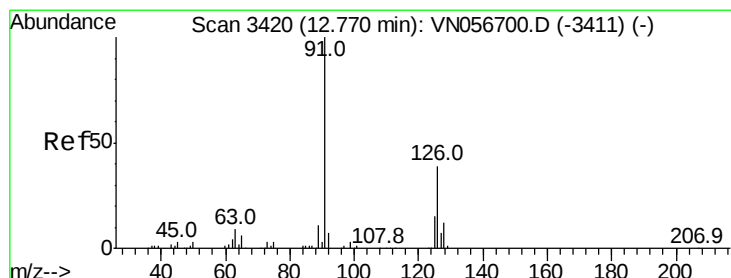
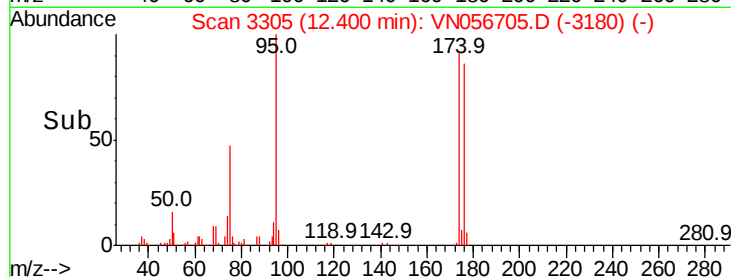
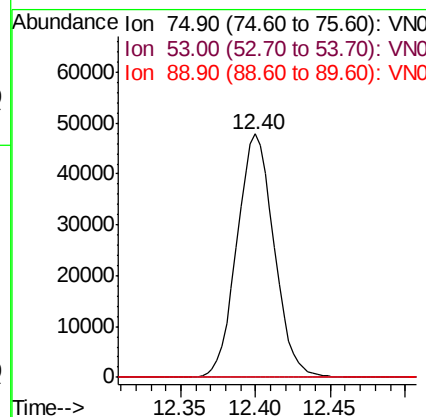
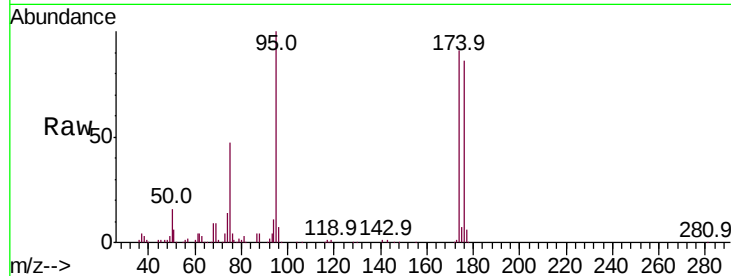
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	75	Resp:	82582
Ion Ratio	Lower	Upper	
75	100		
53	0.0	73.7	110.5#
89	0.0	36.2	54.2#

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#82

4-Chlorotoluene

Concen: 0.318 ug/l

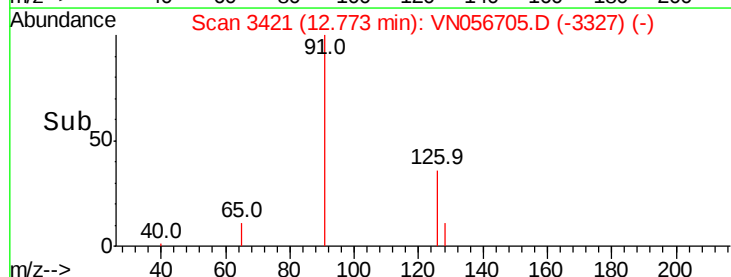
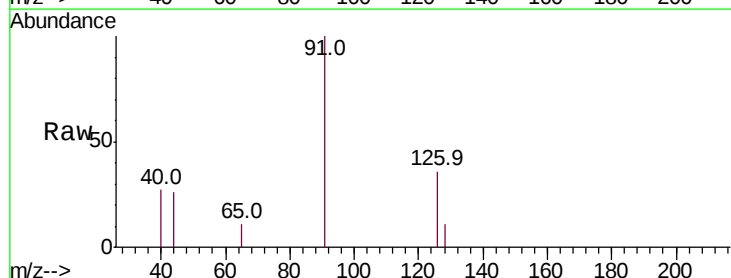
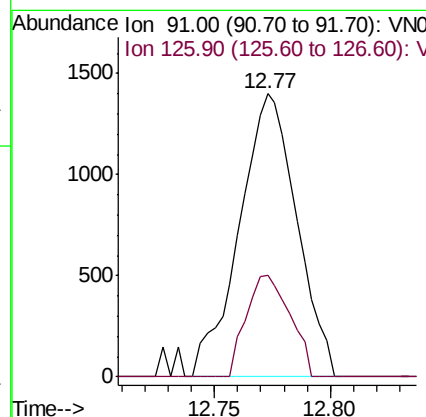
RT: 12.77 min Scan# 3421

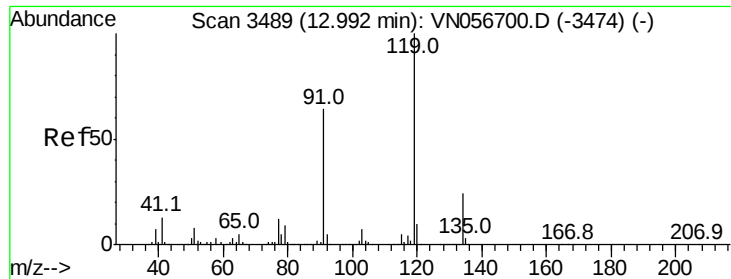
Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Tgt Ion:	91	Resp:	2406
Ion Ratio	Lower	Upper	
91	100		
126	27.4	17.6	52.8





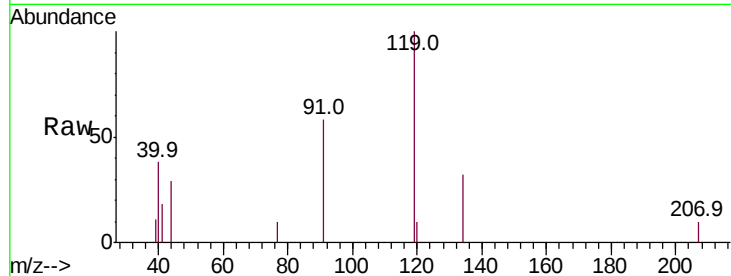
#83
 tert-Butylbenzene
 Concen: 0.276 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	2359		
91	59.5		31.8	95.4
134	30.4		13.0	38.9

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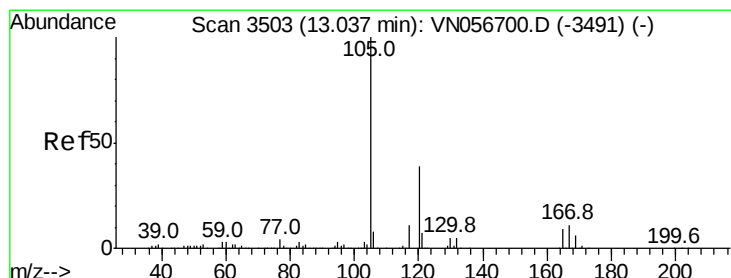
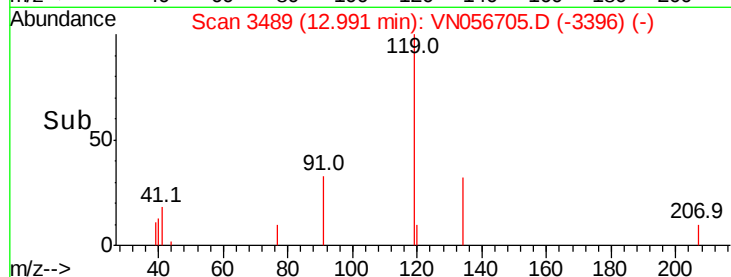
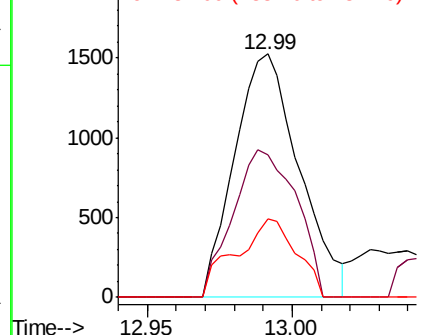


Abundance

Ion 119.00 (118.70 to 119.70): V

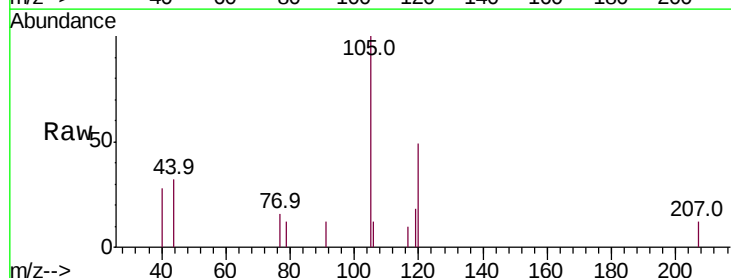
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84
 1,2,4-Trimethylbenzene
 Concen: 0.250 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

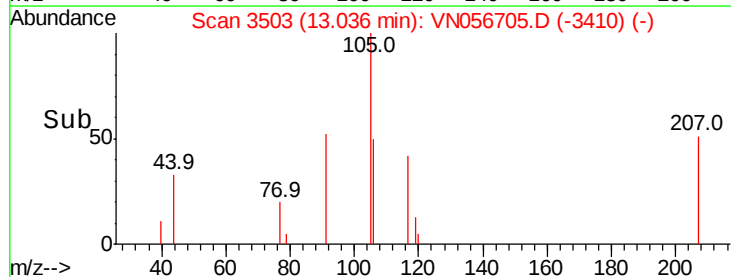
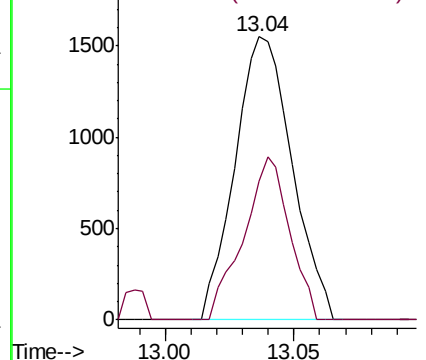
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	2399		
120	46.4		22.9	68.8

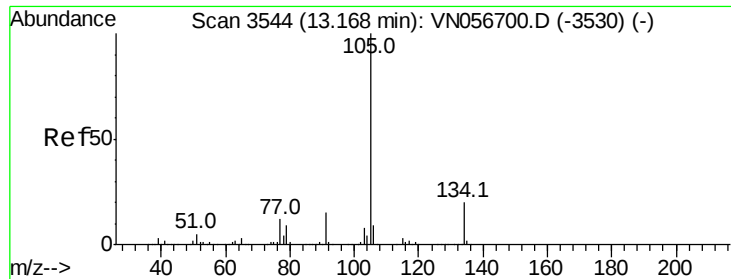


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





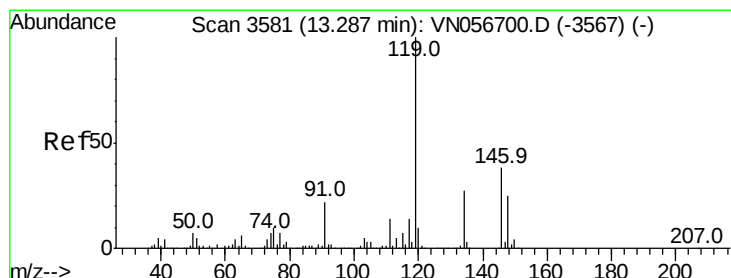
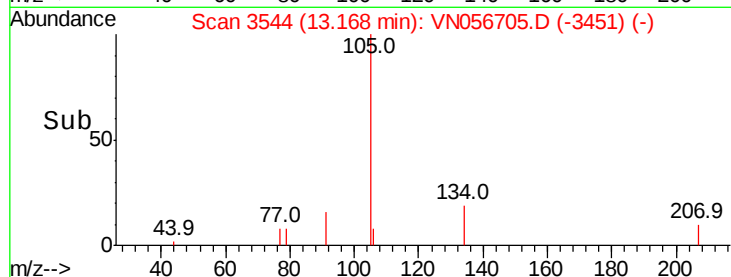
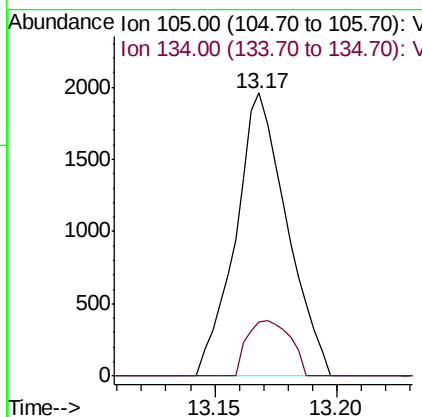
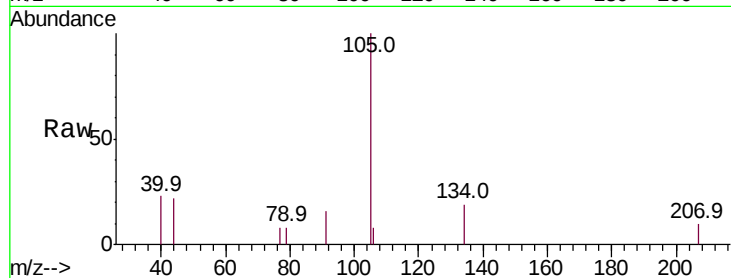
#85
 sec-Butylbenzene
 Concen: 0.261 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion:105 Resp: 2856
 Ion Ratio Lower Upper
 105 100
 134 16.5 10.1 30.1

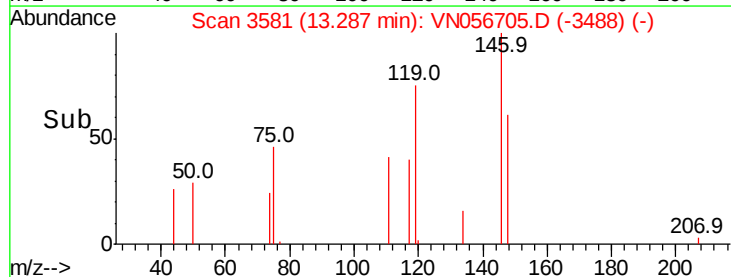
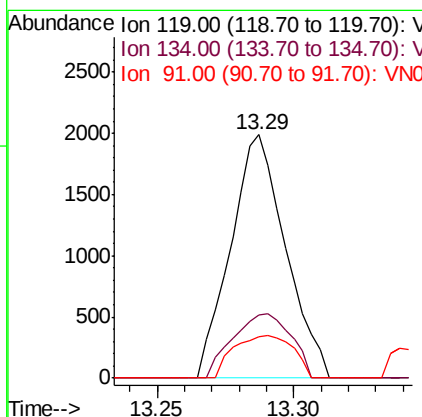
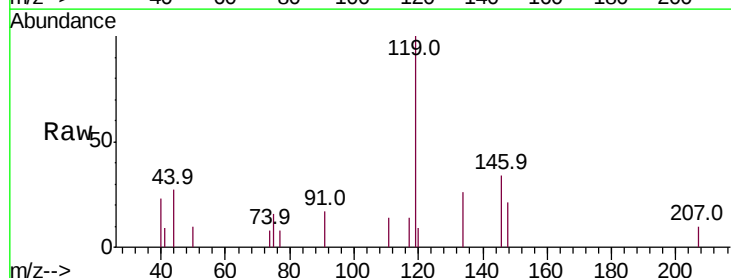
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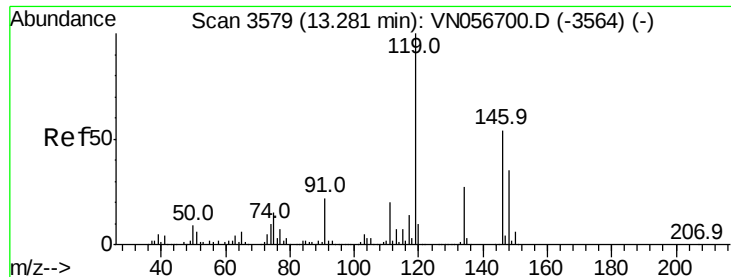
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#86
 p-Isopropyltoluene
 Concen: 0.280 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Tgt Ion:119 Resp: 2768
 Ion Ratio Lower Upper
 119 100
 134 28.1 13.6 40.7
 91 19.0 11.2 33.5





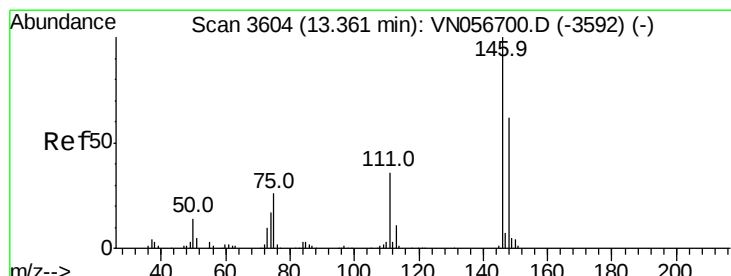
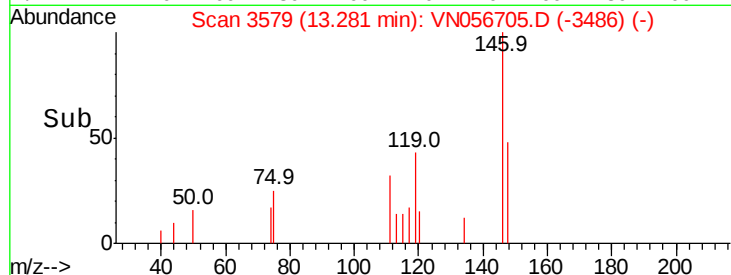
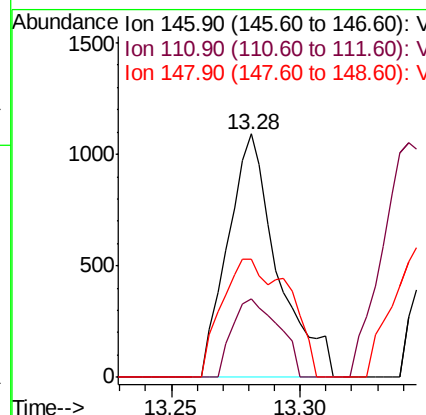
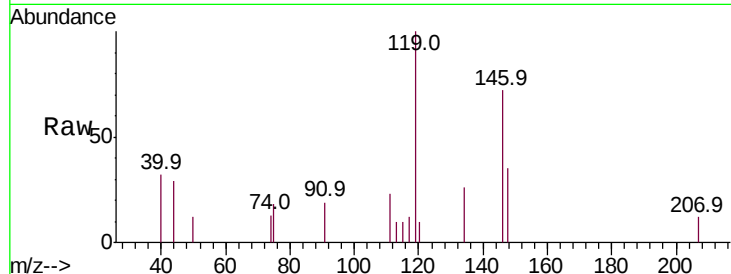
#87
 1,3-Dichlorobenzene
 Concen: 0.294 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	30.2	18.8	56.3
148	65.4	32.3	96.8

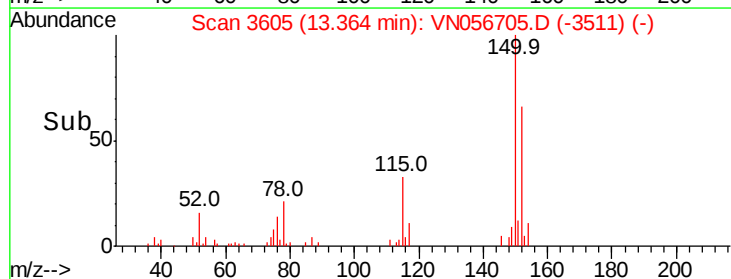
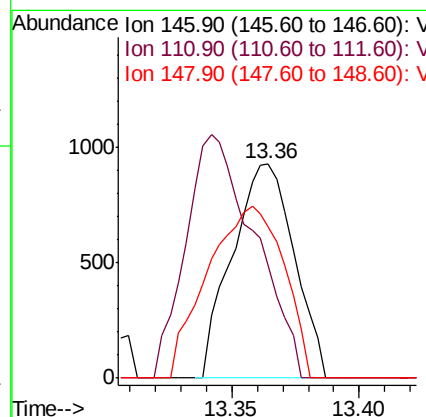
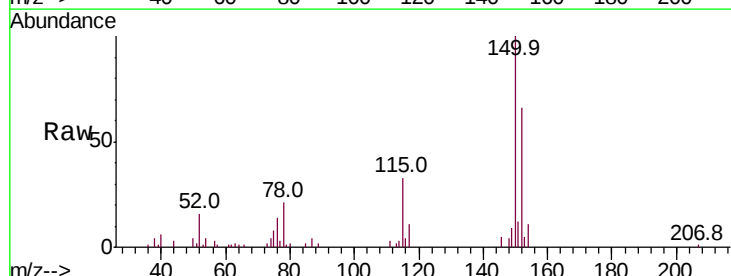
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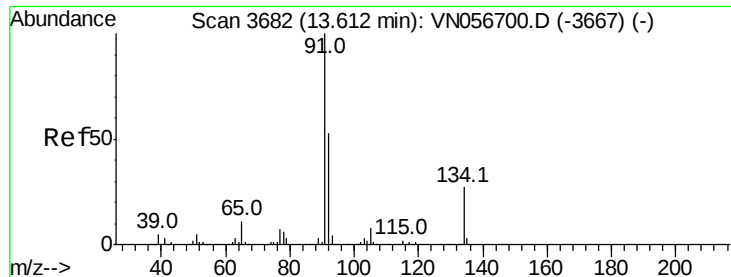
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 0.323 ug/l m
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	28.3	18.6	55.8
148	61.3	31.9	95.7





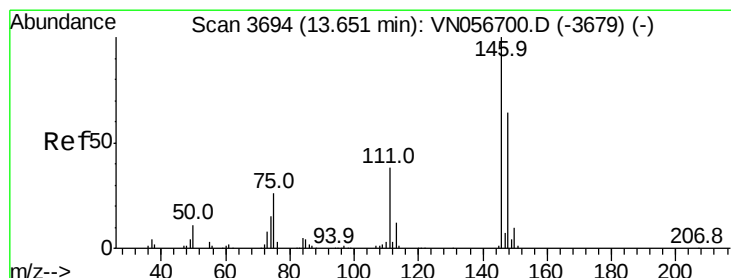
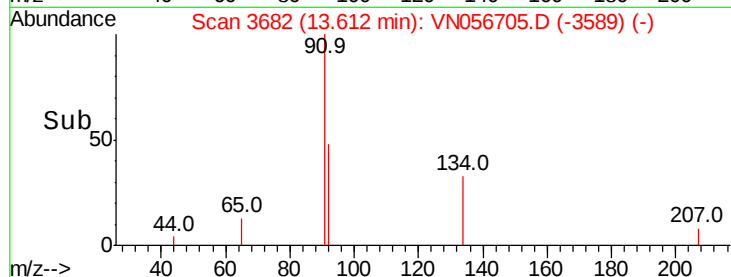
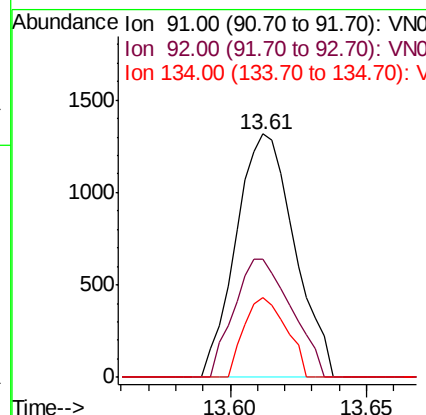
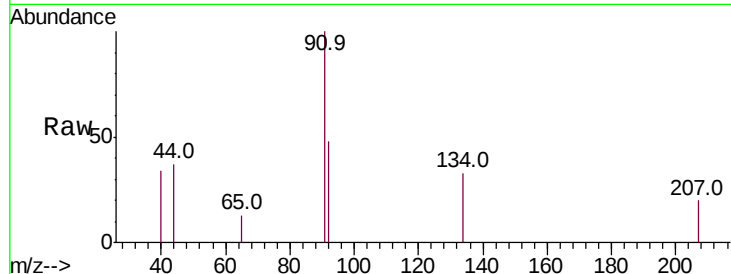
#89
n-Butylbenzene
Concen: 0.246 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	47.6	26.0	78.0
134	23.6	13.4	40.2

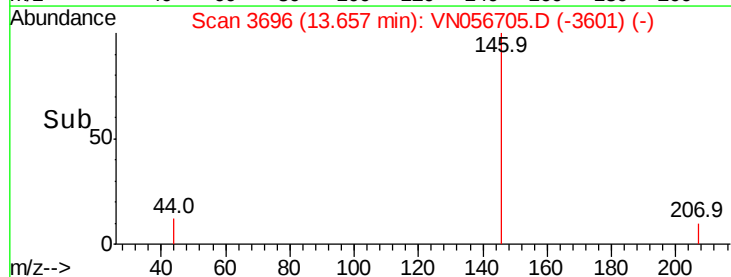
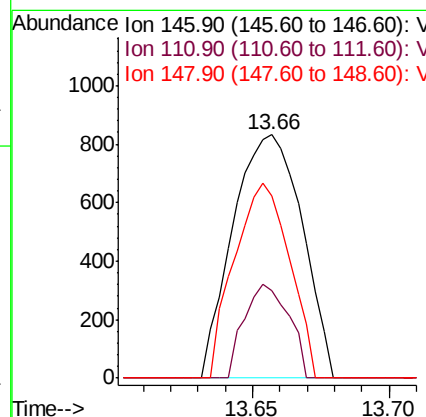
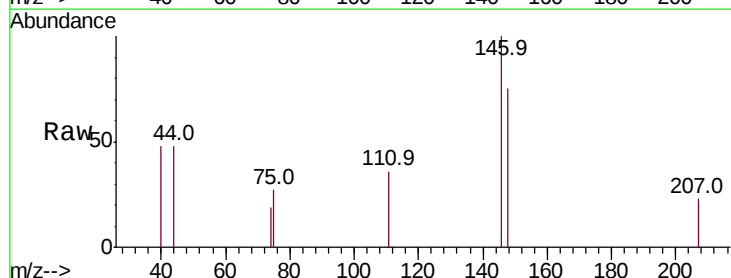
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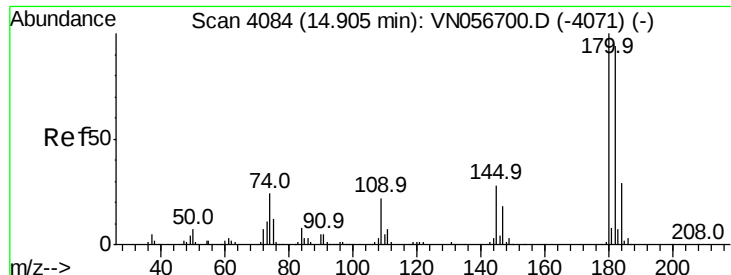
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#91
1,2-Dichlorobenzene
Concen: 0.288 ug/l
RT: 13.66 min Scan# 3696
Delta R.T. 0.01 min
Lab File: VN056705.D
Acq: 15 Jul 2019 12:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	24.8	19.1	57.1
148	63.9	31.7	95.1





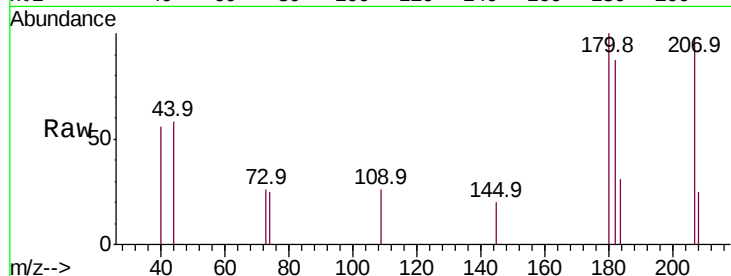
#93
 1,2,4-Trichlorobenzene
 Concen: 0.561 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.2	47.2	141.6
145	11.6	14.2	42.8

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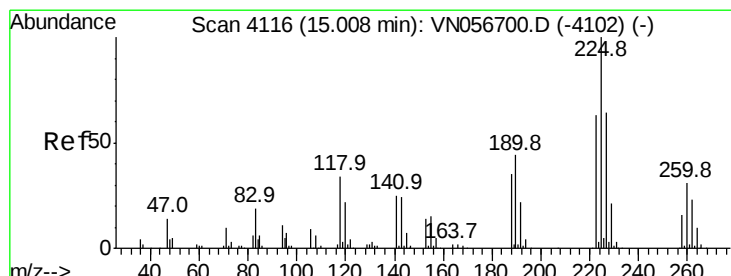
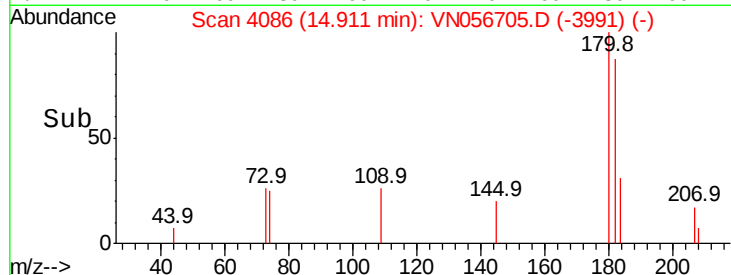
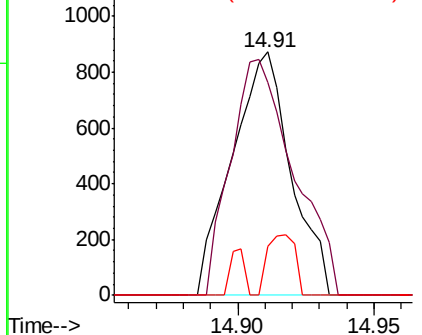


Abundance

Ion 179.80 (179.50 to 180.50): V

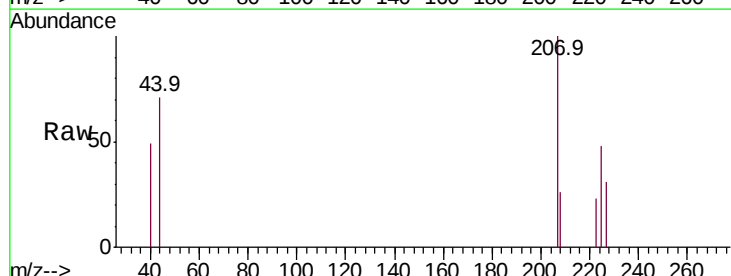
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 0.340 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.01 min
 Lab File: VN056705.D
 Acq: 15 Jul 2019 12:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	27.9	31.5	94.5
227	61.9	32.0	96.2

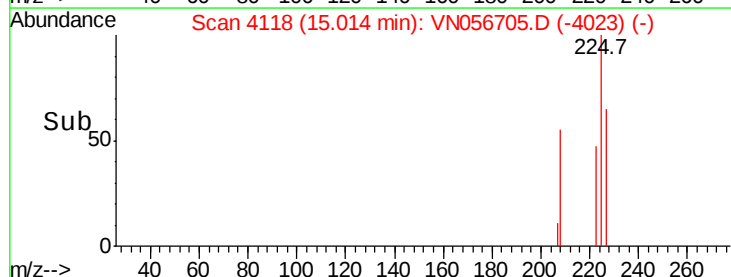
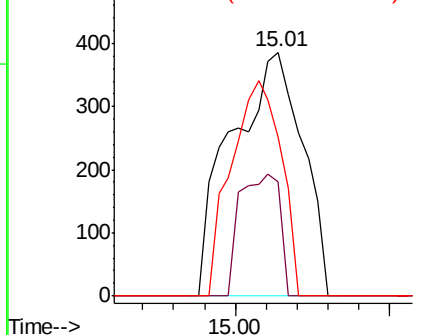


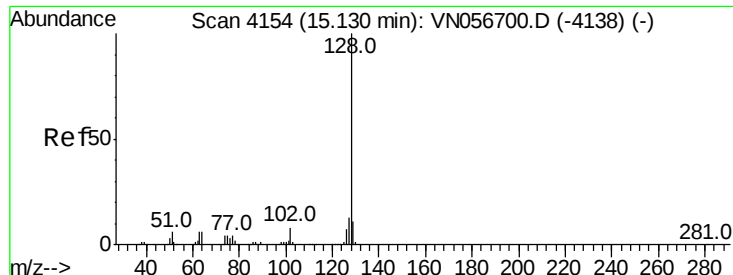
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.500 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Instrument :

MSVOA_N

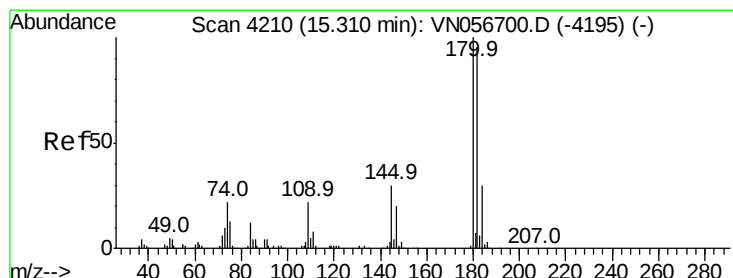
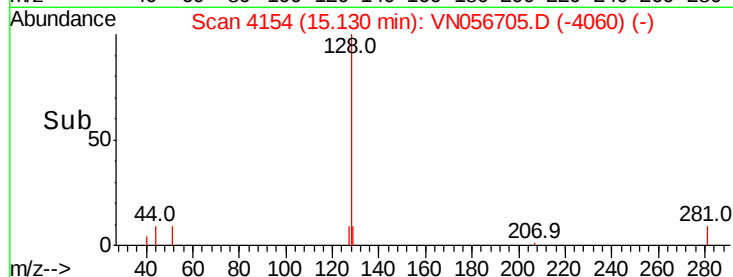
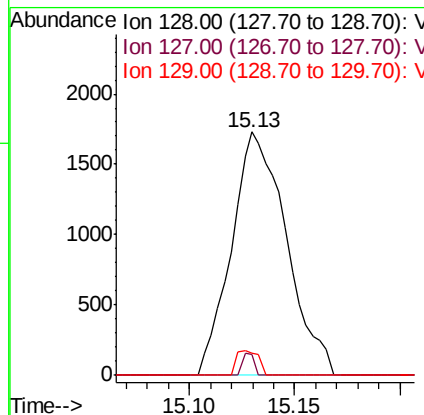
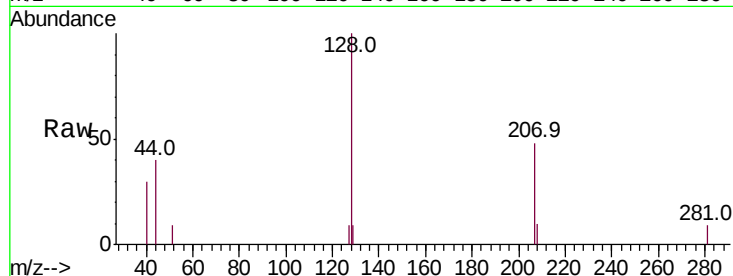
ClientSampleId :

LOD-MDL-WATER-01-QT3-2019

Tot Ion:	128	Resp:	3126
Ion Ratio	Lower	Upper	
128	100		
127	1.9	10.3	15.5#
129	4.0	8.7	13.1#

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#96

1,2,3-Trichlorobenzene

Concen: 0.650 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN056705.D

Acq: 15 Jul 2019 12:33

Tgt Ion:	180	Resp:	1563
Ion Ratio	Lower	Upper	
180	100		
182	100.0	47.1	141.3
145	36.1	15.0	45.1

