

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058749.D
 Acq On : 14 Oct 2019 15:04
 Operator : JC/SP
 Sample : K5111-07 0.2PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:56:58 AM

Quant Time: Oct 15 03:53:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	378548	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	636759	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	570059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234641	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	321668	60.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.40%	
35) Dibromofluoromethane	7.57	113	227411	57.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.64%	
50) Toluene-d8	10.08	98	839503	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	
62) 4-Bromofluorobenzene	12.41	95	283724	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	

Target Compounds

						Qvalue
3) Chloromethane	2.04	50	1776	0.317	ug/l #	64
4) Vinyl Chloride	2.17	62	1485	0.266	ug/l #	64
5) Bromomethane	2.55	94	1234m	0.363	ug/l	
6) Chloroethane	2.68	64	842	0.244	ug/l #	75
7) Trichlorofluoromethane	3.00	101	1582	0.237	ug/l #	79
9) 1,1,2-Trichlorotrifluoroet	3.74	101	844m	0.222	ug/l	
11) Tert butyl alcohol	4.76	59	651m	0.758	ug/l	
13) Acrolein	3.61	56	684m	0.991	ug/l	
14) Allyl chloride	4.31	41	1949	0.266	ug/l #	65
15) Acrylonitrile	4.98	53	1954m	0.903	ug/l	
16) Acetone	3.81	43	3126	1.425	ug/l	99
17) Carbon Disulfide	4.03	76	3258	0.280	ug/l #	89
18) Methyl Acetate	4.31	43	2054m	0.369	ug/l	
20) Methylene Chloride	4.53	84	1557	0.340	ug/l #	62
21) trans-1,2-Dichloroethene	5.04	96	977m	0.240	ug/l	
22) Diisopropyl ether	5.92	45	2865m	0.201	ug/l	
23) Vinyl Acetate	5.89	43	10165	0.883	ug/l #	83
25) 2-Butanone	6.82	43	3891m	1.227	ug/l	
26) 2,2-Dichloropropane	6.80	77	2256	0.304	ug/l #	66
29) Tetrahydrofuran	7.19	42	1976	0.964	ug/l #	54
30) Chloroform	7.36	83	2685	0.329	ug/l #	78
31) Cyclohexane	7.64	56	9839	1.266	ug/l #	1
32) 1,1,1-Trichloroethane	7.54	97	1473m	0.212	ug/l	
36) 1,1-Dichloropropene	7.78	75	1415	0.220	ug/l #	59
37) Ethyl Acetate	6.92	43	1750m	0.269	ug/l	
40) Benzene	8.03	78	4087	0.221	ug/l #	88
41) Methacrylonitrile	7.15	41	726m	0.238	ug/l	
42) 1,2-Dichloroethane	8.12	62	2154	0.303	ug/l #	78
43) Isopropyl Acetate	8.16	43	2243	0.202	ug/l #	60
44) Trichloroethene	8.83	130	1006m	0.219	ug/l	
47) Bromodichloromethane	9.39	83	1442	0.226	ug/l #	68
49) 1,4-Dioxane	9.19	88	107	1.376	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	6056	0.972	ug/l	92
57) 1,3-Dichloropropane	10.71	76	1603	0.203	ug/l #	80

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) 2-Chloroethyl Vinyl ether	9.69	63	2334	0.716	ug/l	96
59) 2-Hexanone	10.75	43	4812	1.000	ug/l	85
64) Tetrachloroethene	10.62	164	911	0.228	ug/l #	87
65) Chlorobenzene	11.43	112	2368	0.205	ug/l #	88
67) Ethyl Benzene	11.51	91	4542	0.220	ug/l	92
68) m/p-Xylenes	11.62	106	2551	0.329	ug/l	88
74) N-amyl acetate	12.08	43	1979	0.259	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.51	83	1483	0.265	ug/l #	87
76) 1,2,3-Trichloropropane	12.56	75	2252m	0.437	ug/l	
77) Bromobenzene	12.53	156	933	0.226	ug/l	85
78) n-propylbenzene	12.59	91	4083	0.206	ug/l	90
79) 2-Chlorotoluene	12.68	91	2516	0.205	ug/l	91
80) 1,3,5-Trimethylbenzene	12.74	105	3230	0.223	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.31	75	769m	0.400	ug/l	
82) 4-Chlorotoluene	12.78	91	2677	0.212	ug/l	95
84) 1,2,4-Trimethylbenzene	13.05	105	2959	0.205	ug/l	87
86) p-Isopropyltoluene	13.29	119	3101	0.208	ug/l	94
87) 1,3-Dichlorobenzene	13.29	146	1553	0.204	ug/l	83
88) 1,4-Dichlorobenzene	13.37	146	2270m	0.293	ug/l	
92) 1,2-Dibromo-3-Chloropropan	14.28	75	766m	0.586	ug/l	
95) Naphthalene	15.13	128	2713	0.208	ug/l #	89

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

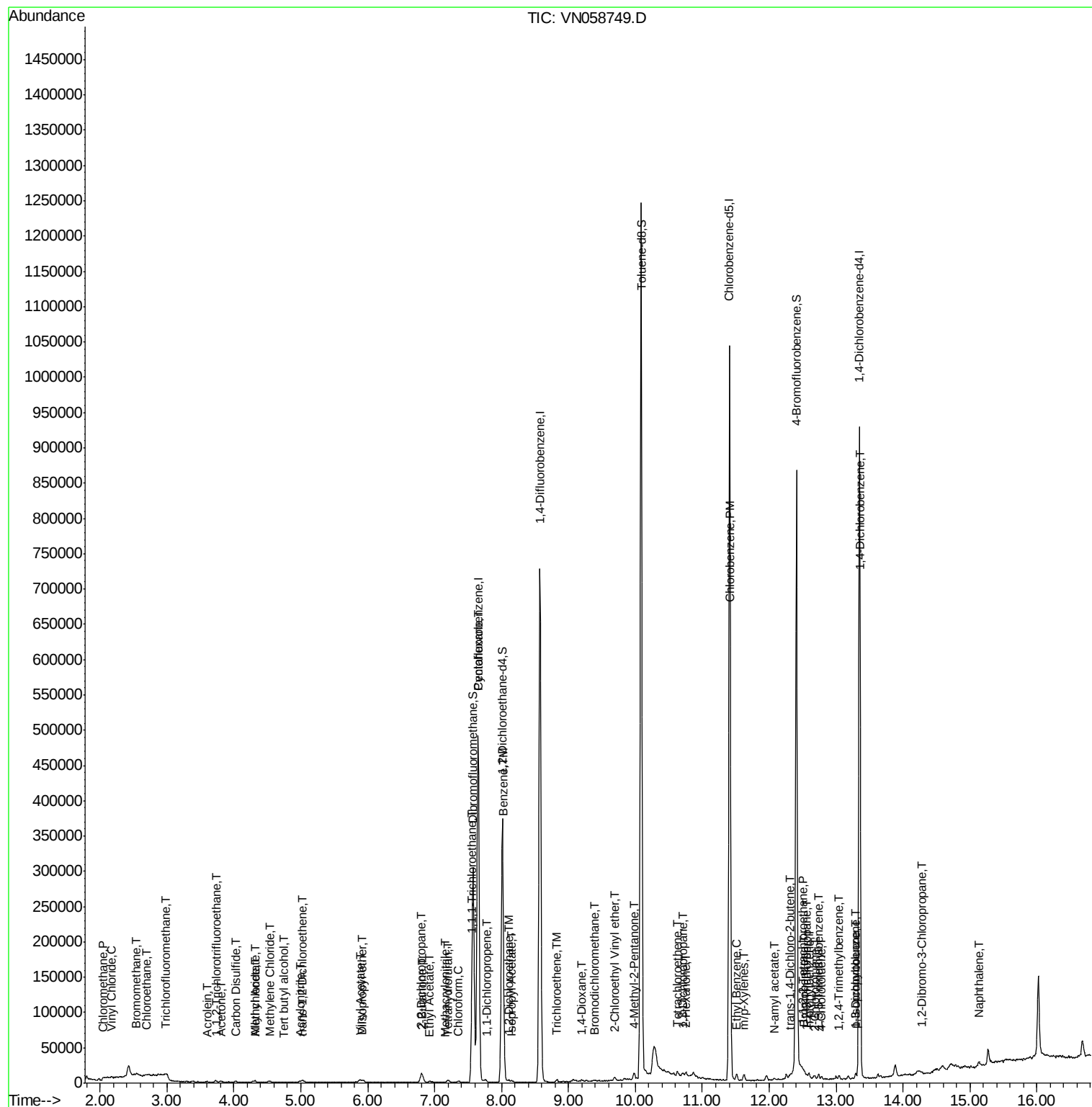
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101419\
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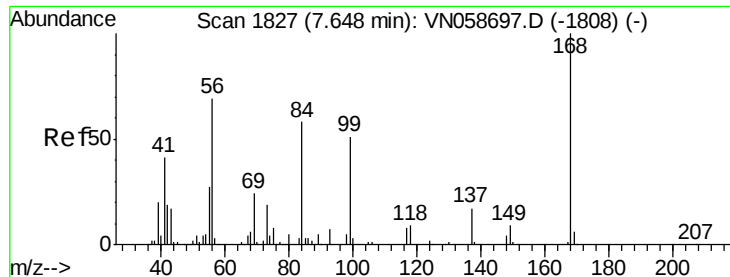
Instrument :
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LOD-MDL-WATER-01-QT4-2019

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 378548

Ion Ratio Lower Upper

168 100

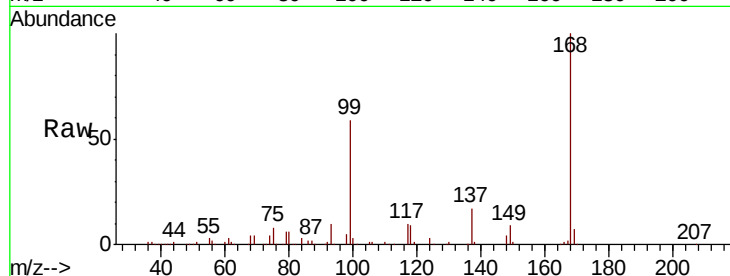
99 58.9 47.5 71.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

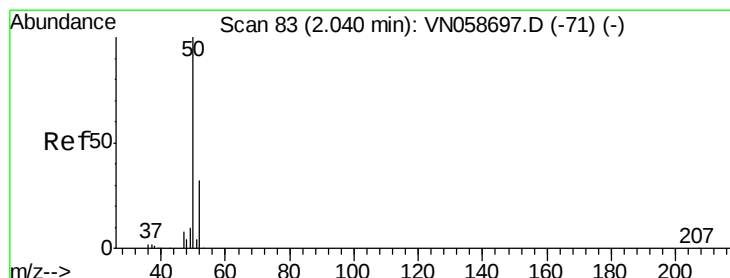
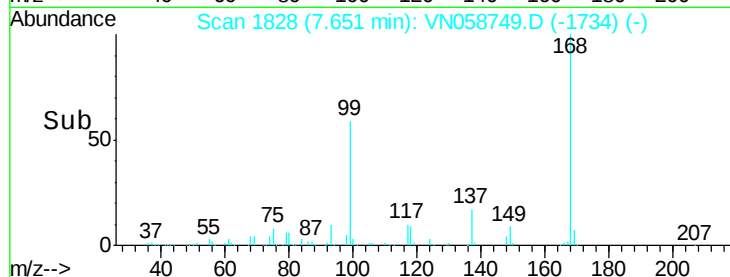
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.317 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058749.D

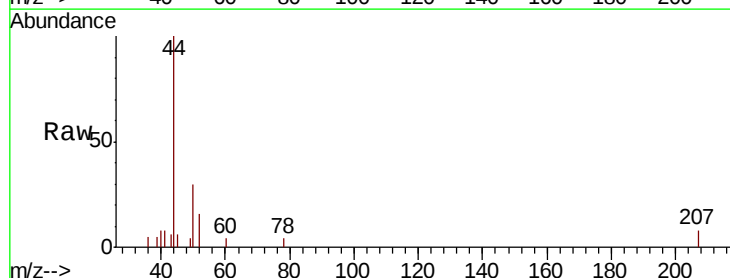
Acq: 14 Oct 2019 15:04

Tgt Ion: 50 Resp: 1776

Ion Ratio Lower Upper

50 100

52 52.2 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

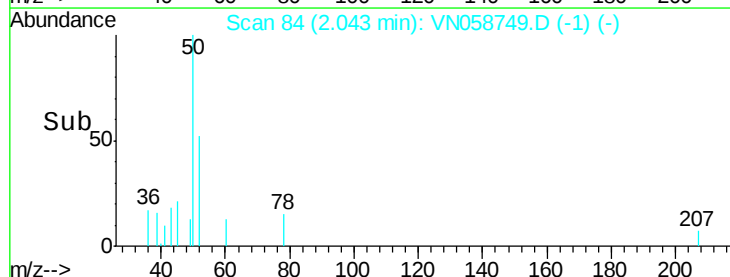
2.04

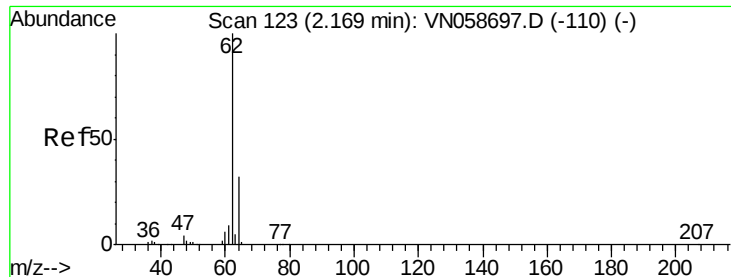
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.266 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 62 Resp: 1485

Ion Ratio Lower Upper

62 100

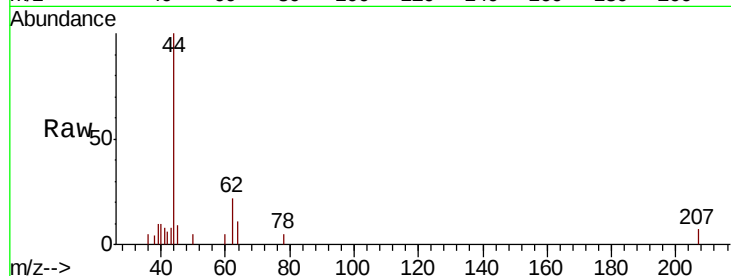
64 51.3 25.3 37.9#

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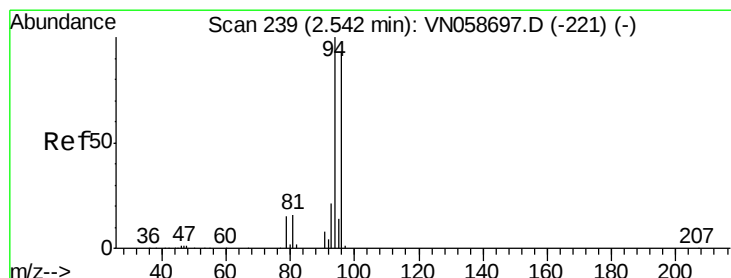
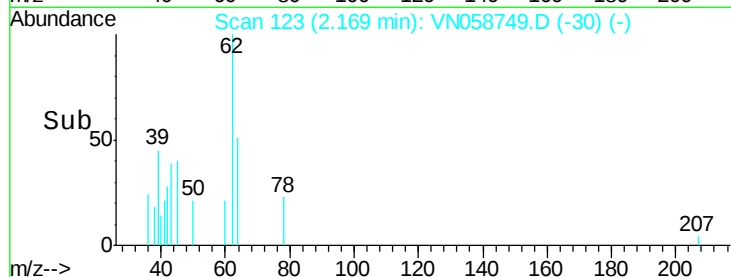
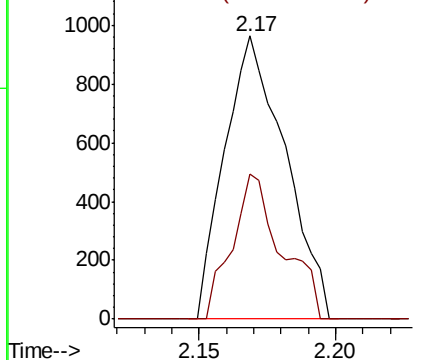
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Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#5

Bromomethane

Concen: 0.363 ug/l m

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058749.D

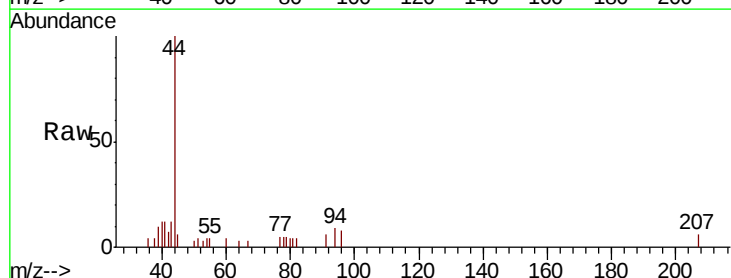
Acq: 14 Oct 2019 15:04

Tgt Ion: 94 Resp: 1234

Ion Ratio Lower Upper

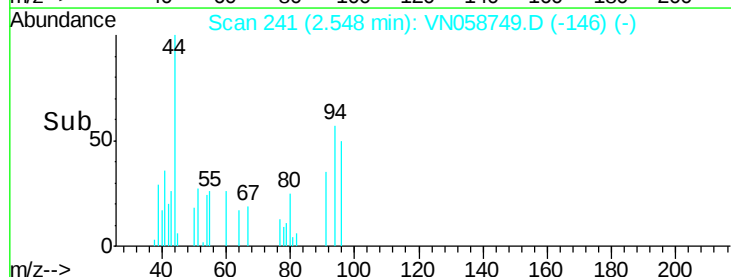
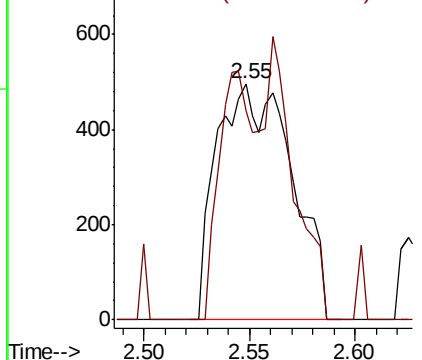
94 100

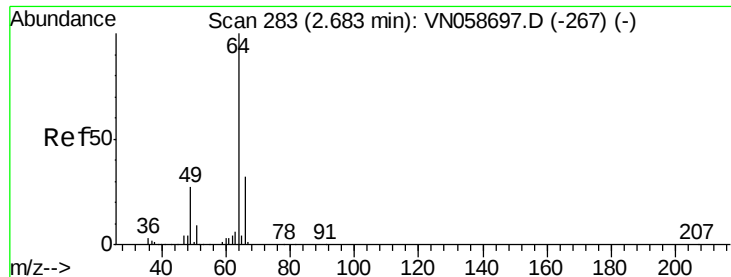
96 88.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: 0.244 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 64 Resp: 842

Ion Ratio Lower Upper

64 100

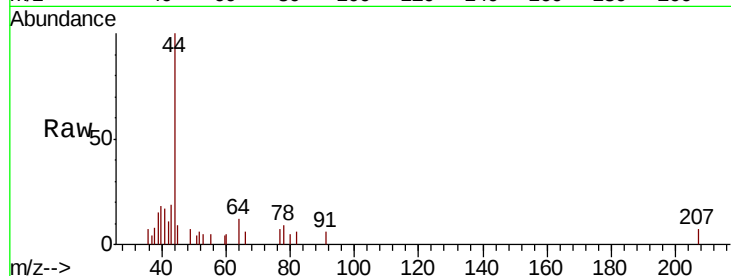
66 17.7 25.4 38.2#

Manual Integrations

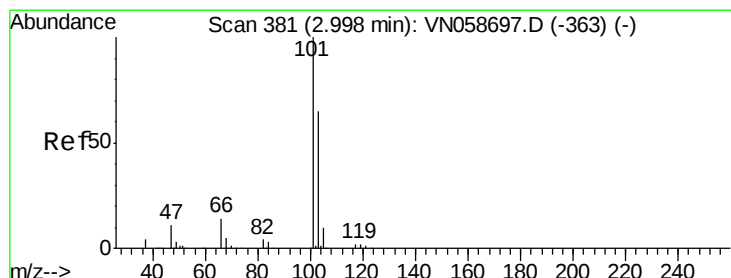
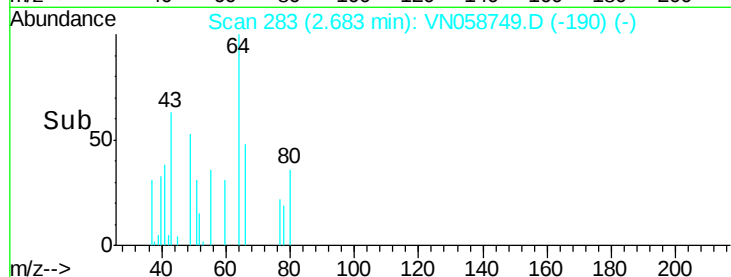
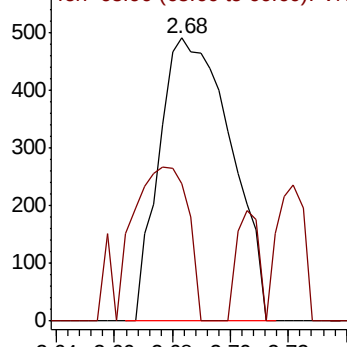
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Abundance Ion 63.90 (63.60 to 64.60): VN058749.D (-190) (-)



#7

Trichlorofluoromethane

Concen: 0.237 ug/l

RT: 3.00 min Scan# 380

Delta R.T. -0.00 min

Lab File: VN058749.D

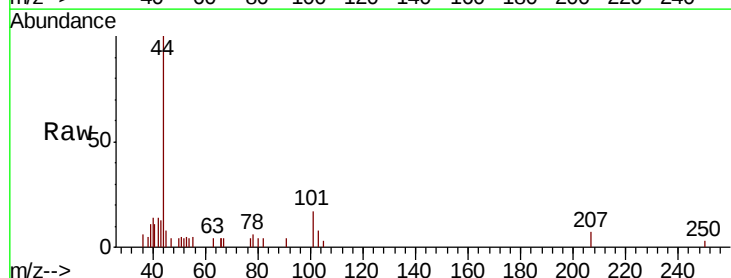
Acq: 14 Oct 2019 15:04

Tgt Ion: 101 Resp: 1582

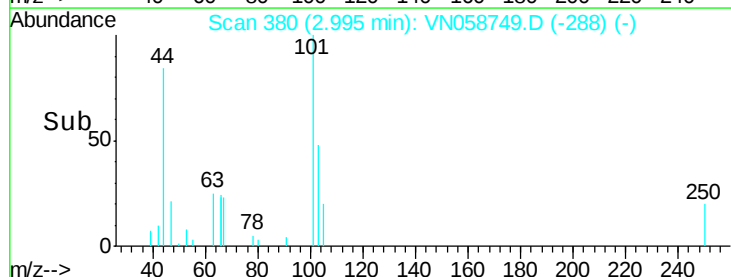
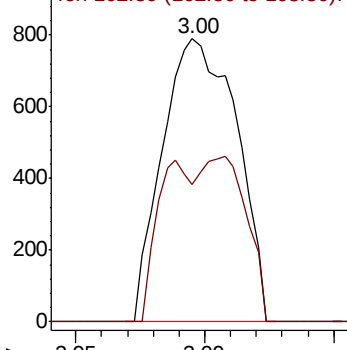
Ion Ratio Lower Upper

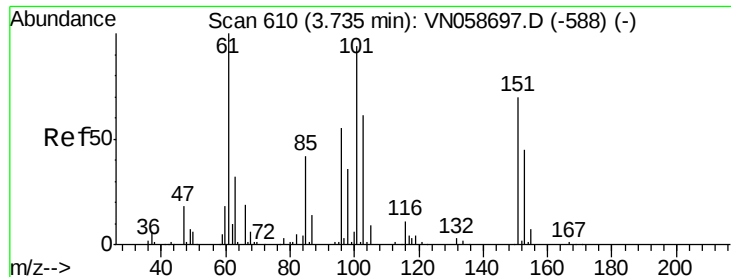
101 100

103 48.5 51.8 77.6#



Abundance Ion 100.90 (100.60 to 101.60): VN058749.D (-288) (-)





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.222 ug/l m

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

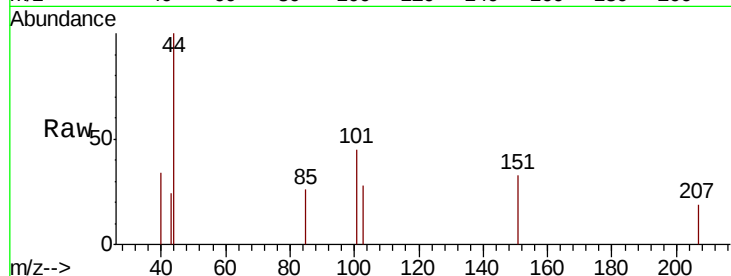
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

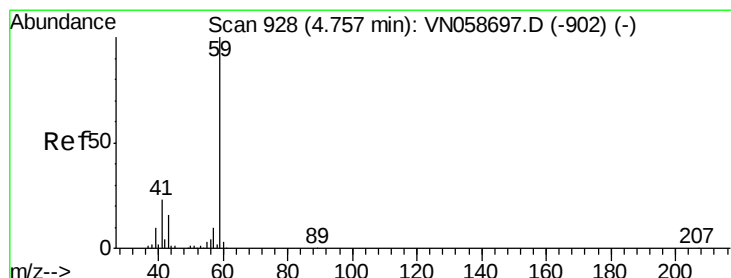
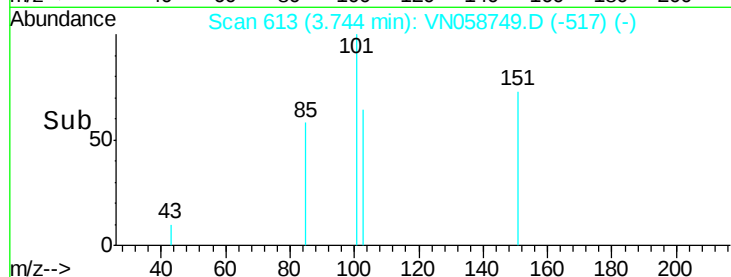
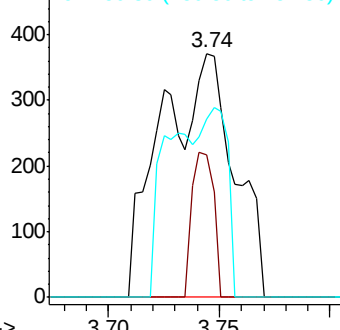
Tot Ion:	101	Resp:	844
Ion Ratio	Lower	Upper	
101	100		
85	17.5	37.0	55.6#
151	0.0	61.8	92.6#

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VNO
Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.758 ug/l m

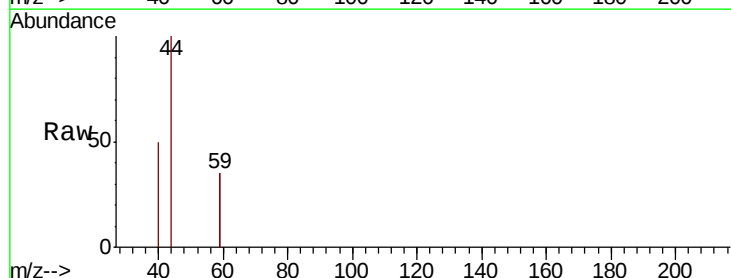
RT: 4.76 min Scan# 928

Delta R.T. -0.00 min

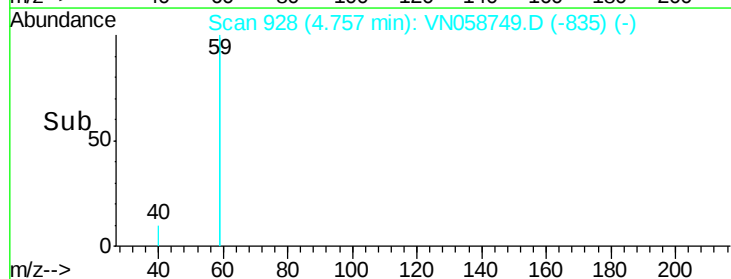
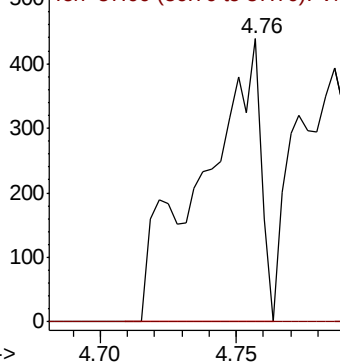
Lab File: VN058749.D

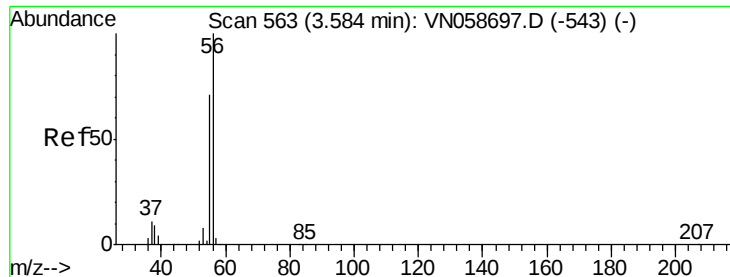
Acq: 14 Oct 2019 15:04

Tgt Ion:	59	Resp:	651
Ion Ratio	Lower	Upper	
59	100		
57	0.0	8.4	12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO
Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.991 ug/l m

RT: 3.61 min Scan# 572

Delta R.T. 0.03 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 684

Ion Ratio Lower Upper

56 100

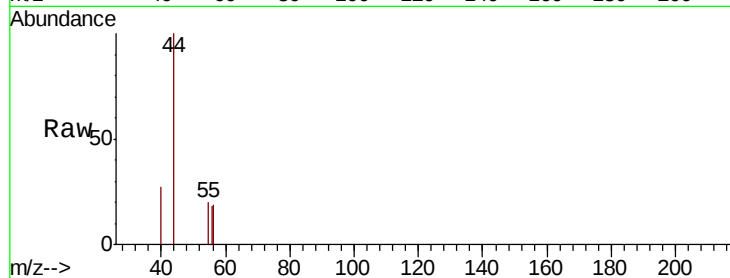
55 90.6 56.7 85.1#

Manual Integrations

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10/16/2019 12:56:58 AM



Abundance Ion 56.00 (55.70 to 56.70): VN058697.D (-543) (-)

Ion 55.00 (54.70 to 55.70): VN058697.D (-543) (-)

3.61

3.60

3.59

3.58

3.57

3.56

3.55

3.54

3.53

3.52

3.51

3.50

3.49

3.48

3.47

3.46

3.45

3.44

3.43

3.42

3.41

3.40

3.39

3.38

3.37

3.36

3.35

3.34

3.33

3.32

3.31

3.30

3.29

3.28

3.27

3.26

3.25

3.24

3.23

3.22

3.21

3.20

3.19

3.18

3.17

3.16

3.15

3.14

3.13

3.12

3.11

3.10

3.09

3.08

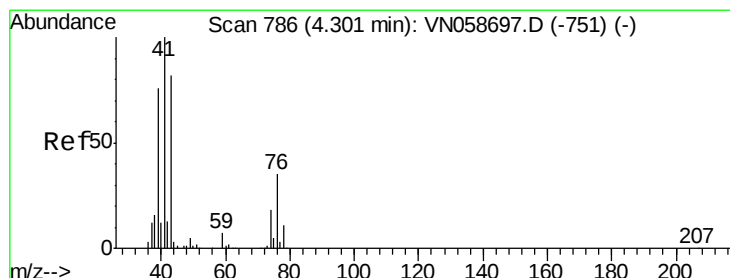
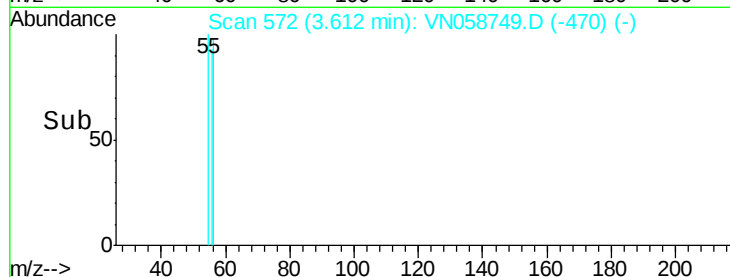
3.07

3.06

3.05

3.04

3.03



#14

Allyl chloride

Concen: 0.266 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

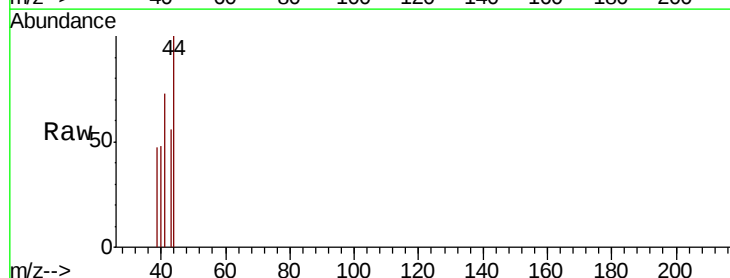
Tgt Ion: 41 Resp: 1949

Ion Ratio Lower Upper

41 100

39 47.2 57.2 85.8#

76 4.9 25.0 37.6#



Abundance Ion 41.00 (40.70 to 41.70): VN058697.D (-751) (-)

Ion 39.00 (38.70 to 39.70): VN058697.D (-751) (-)

Ion 75.90 (75.60 to 76.60): VN058697.D (-751) (-)

4.31

4.30

4.29

4.28

4.27

4.26

4.25

4.24

4.23

4.22

4.21

4.20

4.19

4.18

4.17

4.16

4.15

4.14

4.13

4.12

4.11

4.10

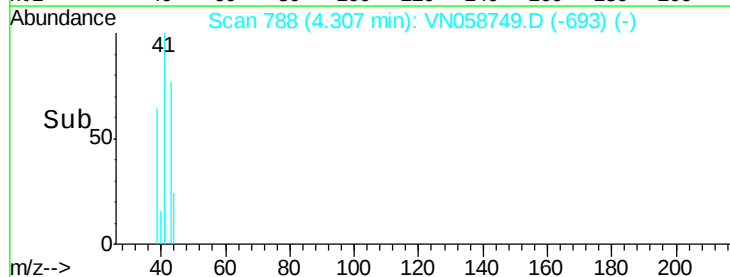
4.09

4.08

4.07

4.06

4.05



Abundance Ion 41.00 (40.70 to 41.70): VN058749.D (-693) (-)

Ion 39.00 (38.70 to 39.70): VN058749.D (-693) (-)

Ion 75.90 (75.60 to 76.60): VN058749.D (-693) (-)

4.31

4.30

4.29

4.28

4.27

4.26

4.25

4.24

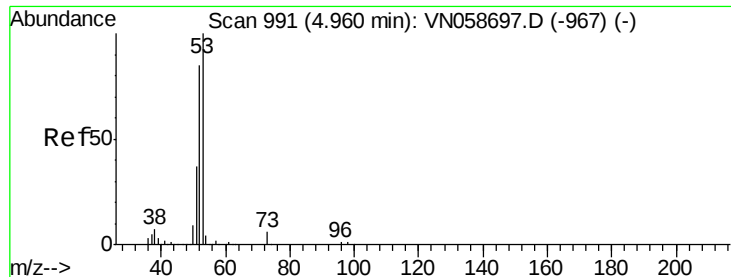
4.23

4.22

4.21

4.20

4.19



#15

Acrylonitrile

Concen: 0.903 ug/l m

RT: 4.98 min Scan# 998

Delta R.T. 0.02 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

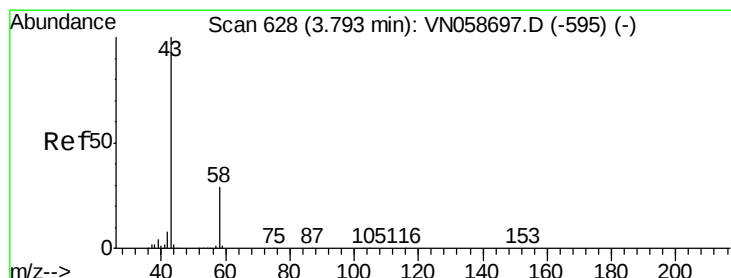
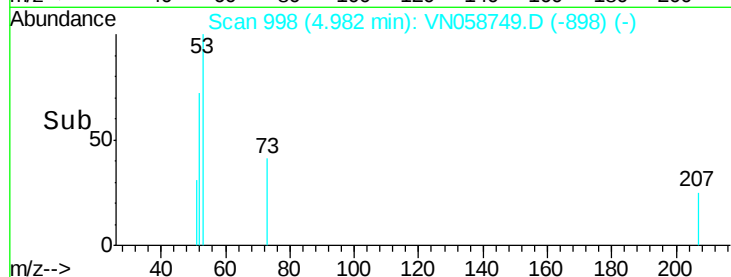
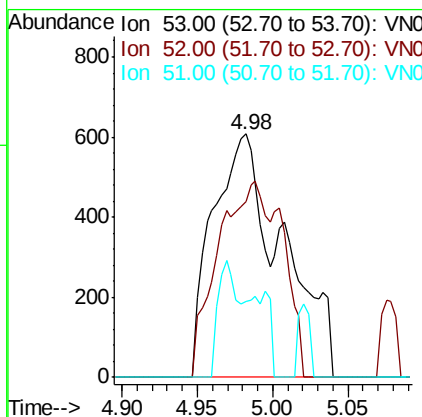
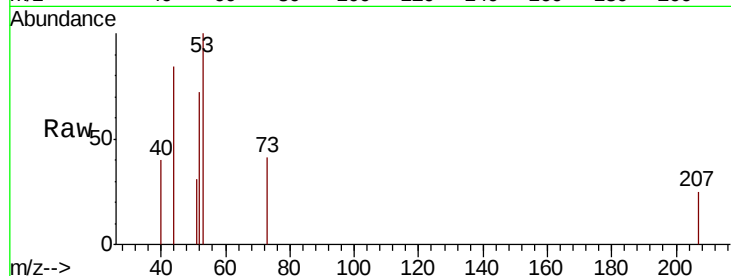
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	53	Resp:	1954
Ion	Ratio	Lower	Upper
53	100		
52	56.9	66.2	99.2#
51	13.5	29.4	44.2#

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MMDadoda
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#16

Acetone

Concen: 1.425 ug/l

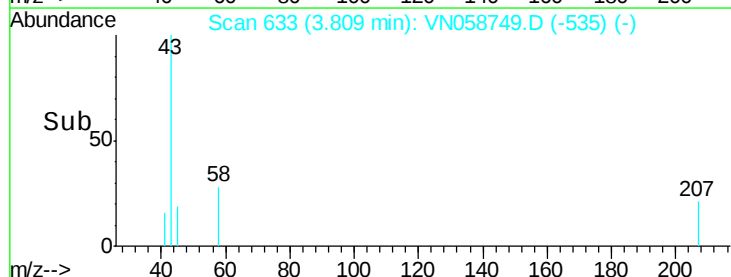
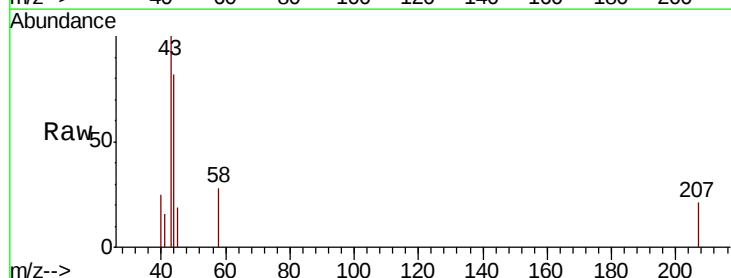
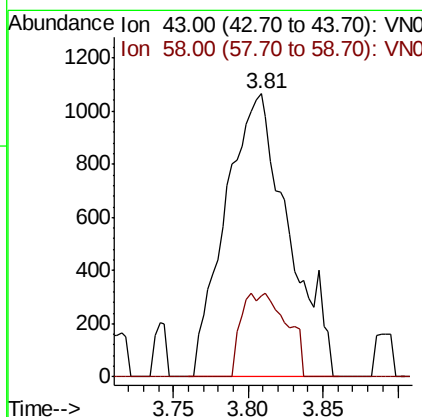
RT: 3.81 min Scan# 633

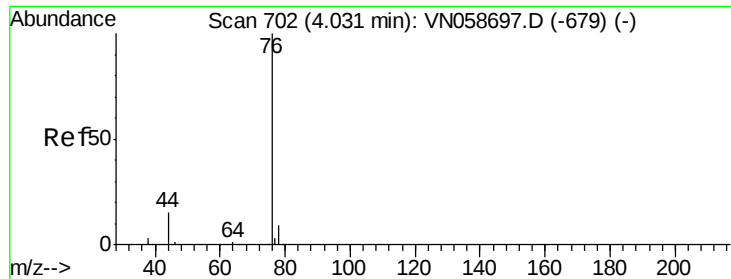
Delta R.T. 0.02 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Tgt Ion:	43	Resp:	3126
Ion	Ratio	Lower	Upper
43	100		
58	28.5	23.3	34.9





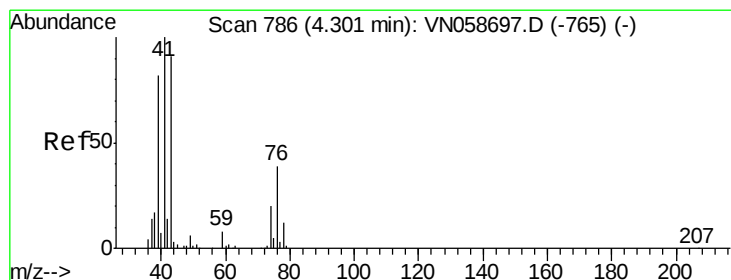
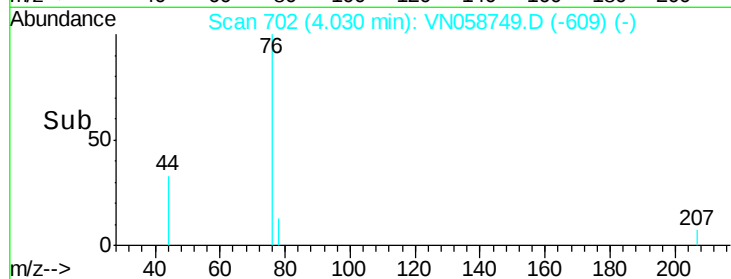
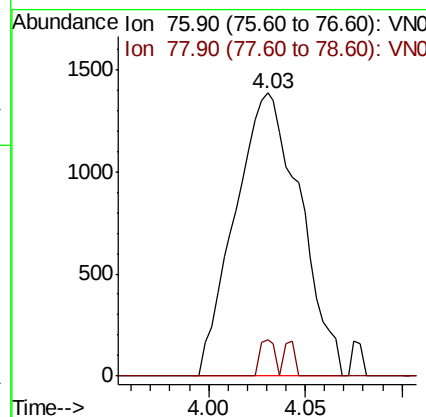
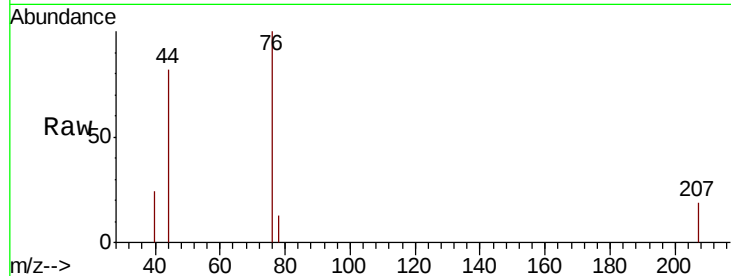
#17
Carbon Disulfide
Concen: 0.280 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 3258
Ion Ratio Lower Upper
76 100
78 12.8 7.1 10.7#

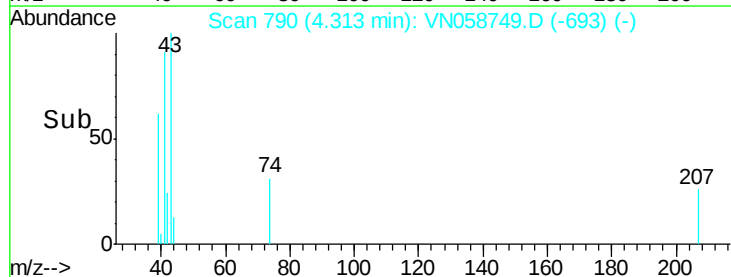
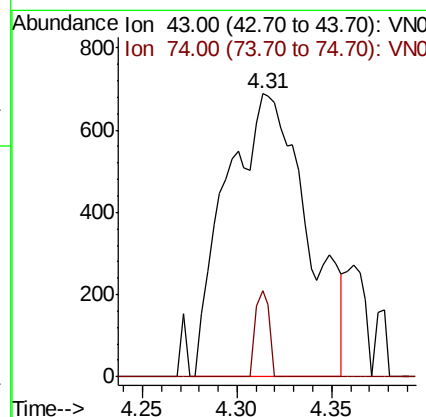
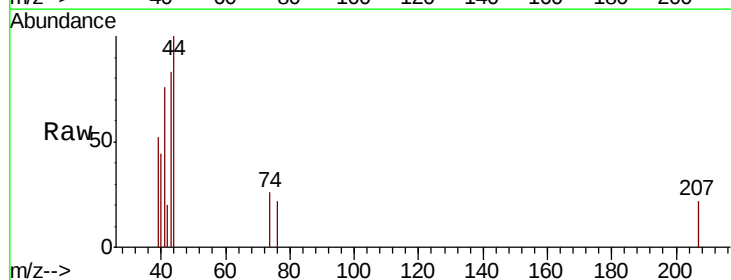
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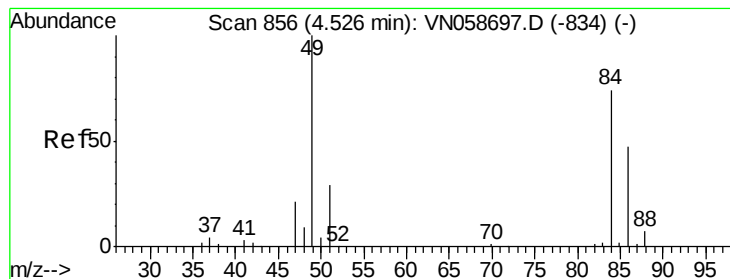
MMDadoda
10/16/2019 12:56:58 AM



#18
Methyl Acetate
Concen: 0.369 ug/l m
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion: 43 Resp: 2054
Ion Ratio Lower Upper
43 100
74 0.0 17.2 25.8#





#20

Methvlene Chloride

Concen: 0.340 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

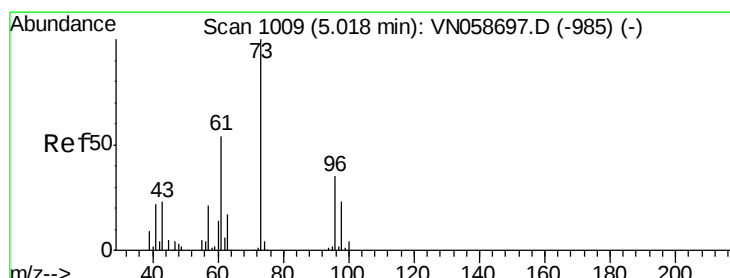
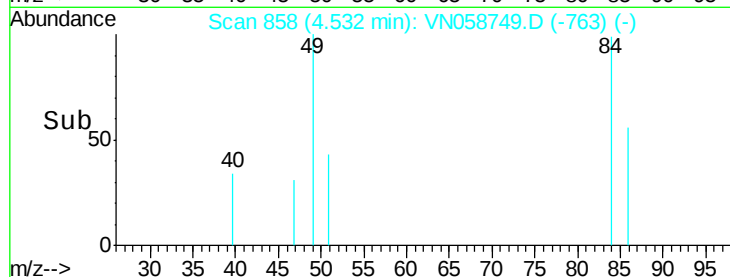
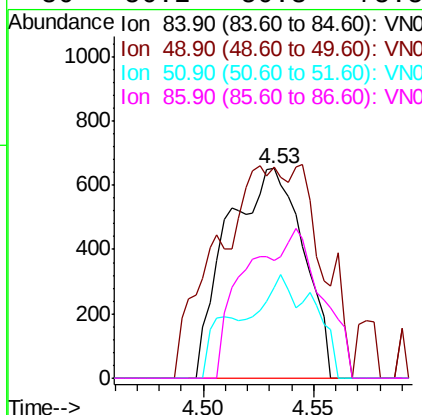
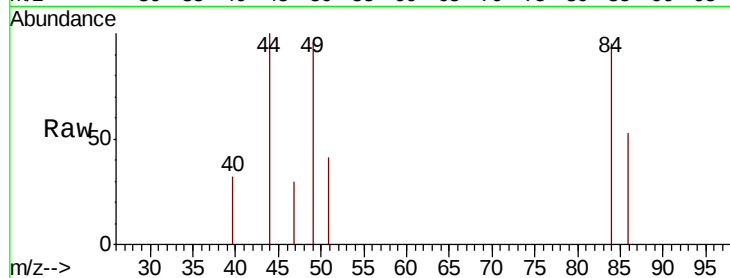
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	84	Resp:	1557
Ion	Ratio	Lower	Upper
84	100		
49	63.3	107.6	161.4#
51	43.6	31.4	47.0
86	56.2	50.3	75.5

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MMDadoda
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#21

trans-1,2-Dichloroethene

Concen: 0.240 ug/l m

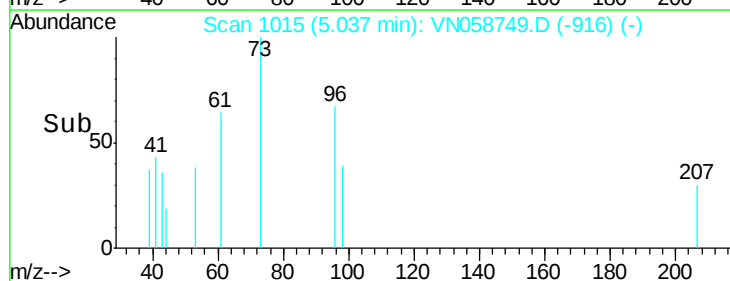
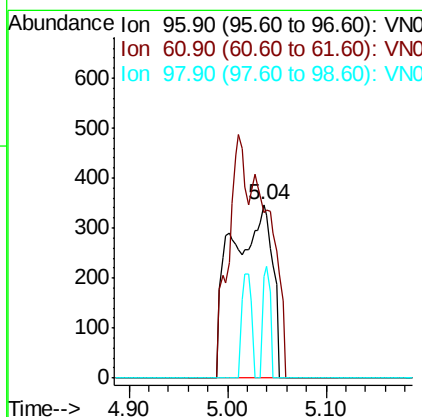
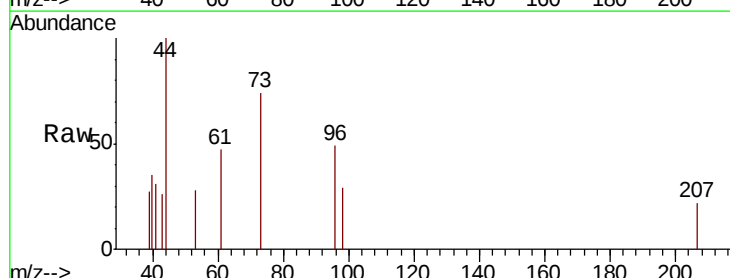
RT: 5.04 min Scan# 1015

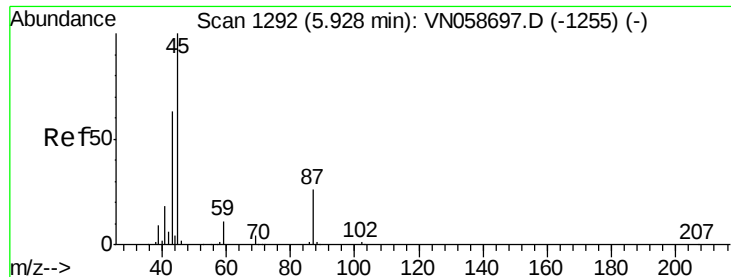
Delta R.T. 0.02 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Tgt Ion:	96	Resp:	977
Ion	Ratio	Lower	Upper
96	100		
61	95.1	123.6	185.4#
98	58.8	52.1	78.1





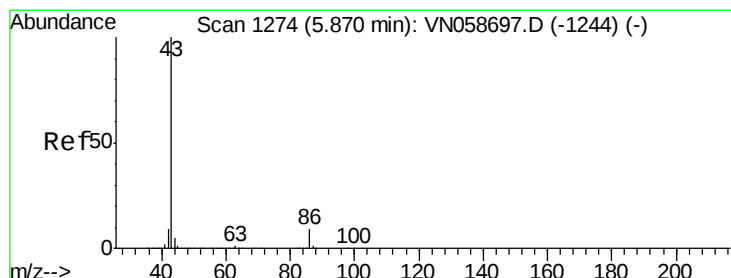
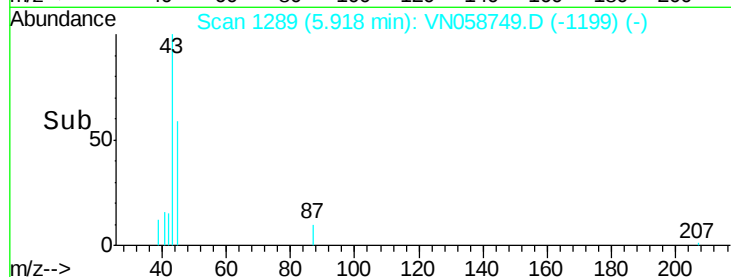
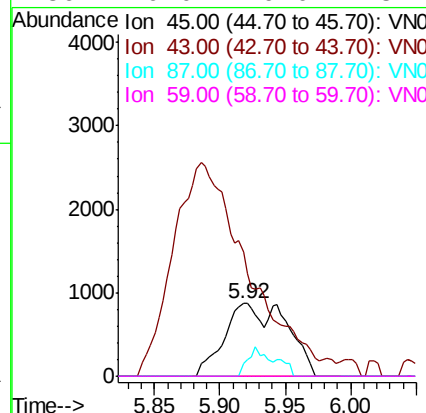
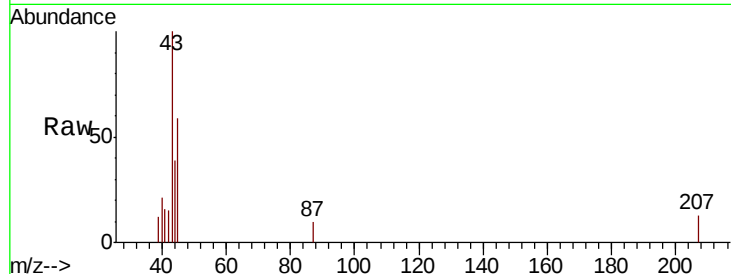
#22
Diisopropyl ether
Concen: 0.201 ug/l m
RT: 5.92 min Scan# 1289
Delta R.T. -0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
45	100		
43	170.6	50.6	75.8#
87	17.3	21.1	31.7#
59	0.0	9.0	13.4#

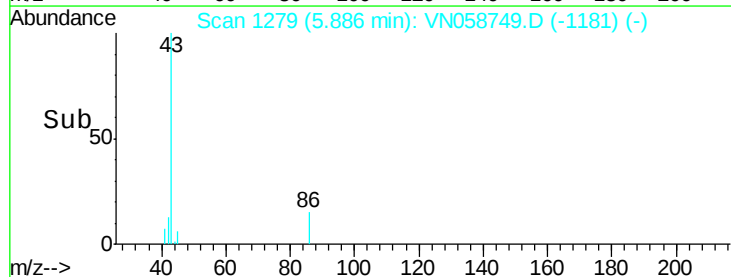
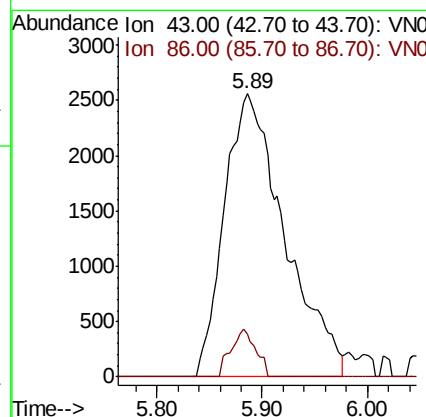
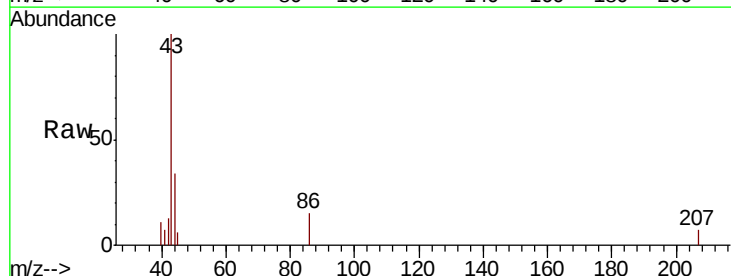
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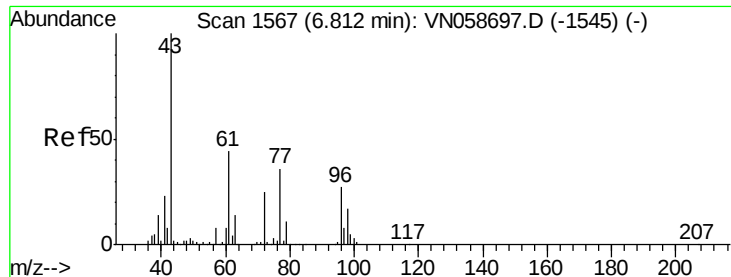
MMDadoda
10/16/2019 12:56:58 AM



#23
Vinyl Acetate
Concen: 0.883 ug/l
RT: 5.89 min Scan# 1279
Delta R.T. 0.02 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
43	100		
86	15.3	7.4	11.0#





#25

2-Butanone

Concen: 1.227 ug/l m

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 3891

Ion Ratio Lower Upper

43 100

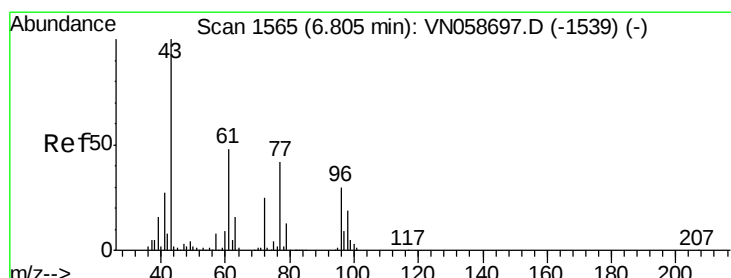
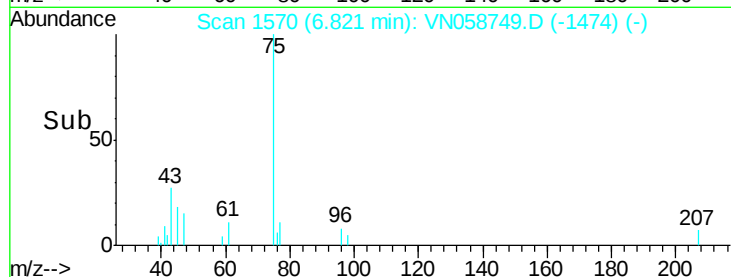
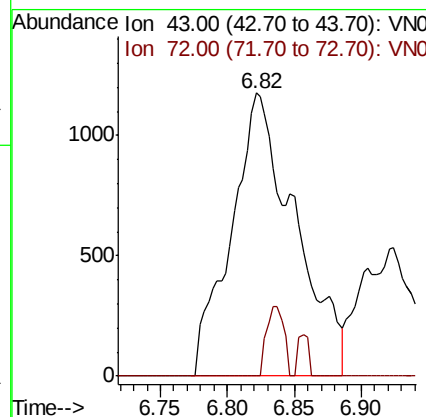
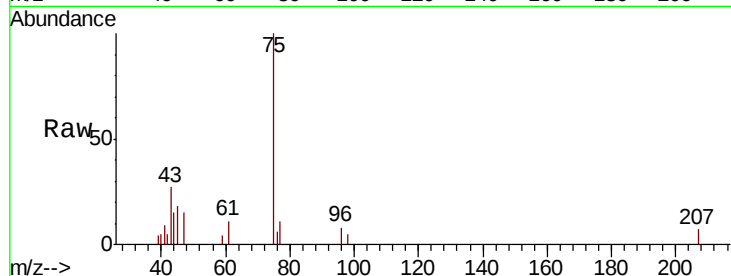
72 0.0 20.2 30.2#

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#26

2,2-Dichloropropane

Concen: 0.304 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058749.D

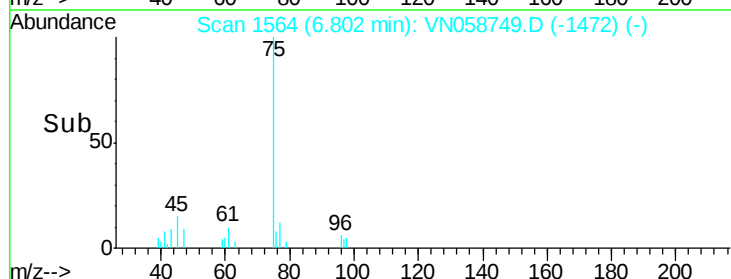
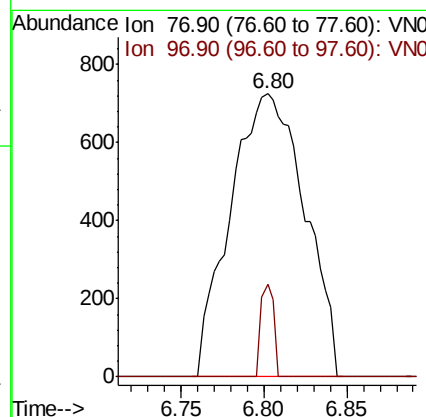
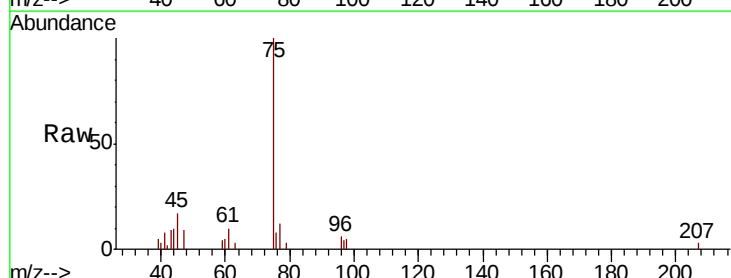
Acq: 14 Oct 2019 15:04

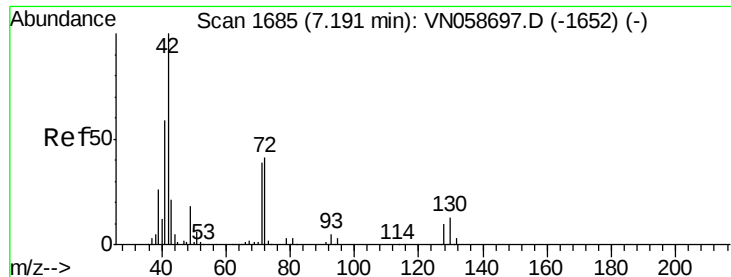
Tgt Ion: 77 Resp: 2256

Ion Ratio Lower Upper

77 100

97 5.5 10.7 31.9#





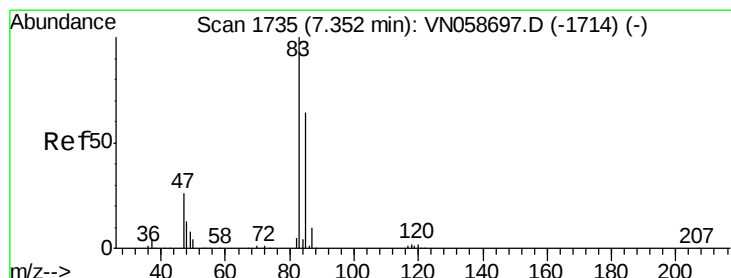
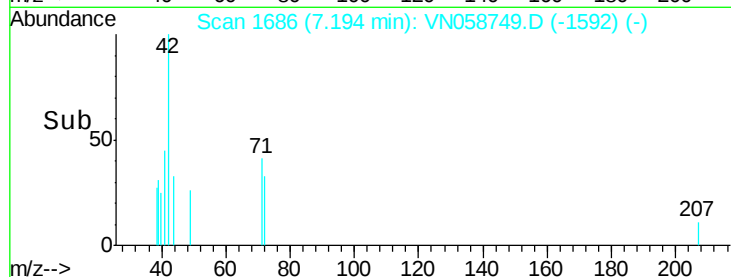
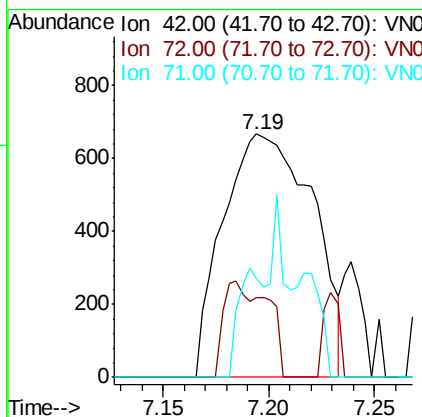
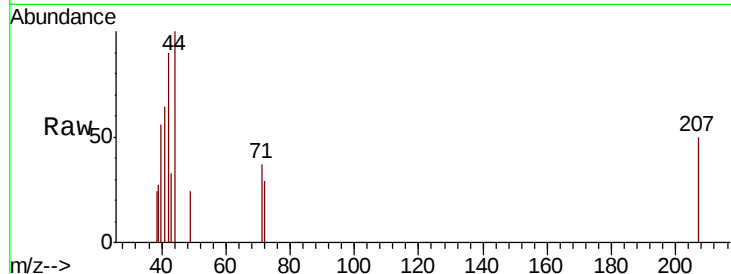
#29
Tetrahydrofuran
Concen: 0.964 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	11.1	32.8	49.2#
71	12.3	31.1	46.7#

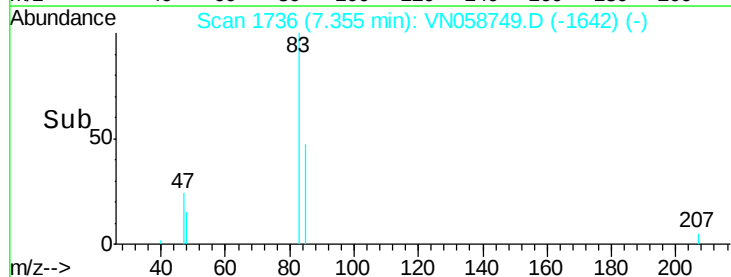
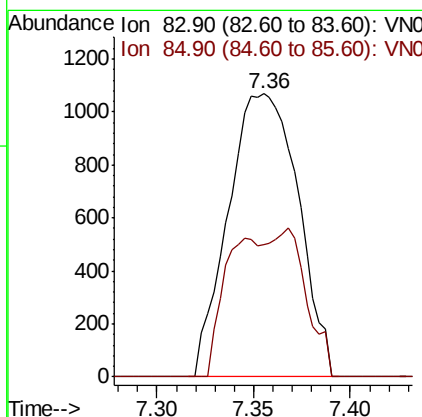
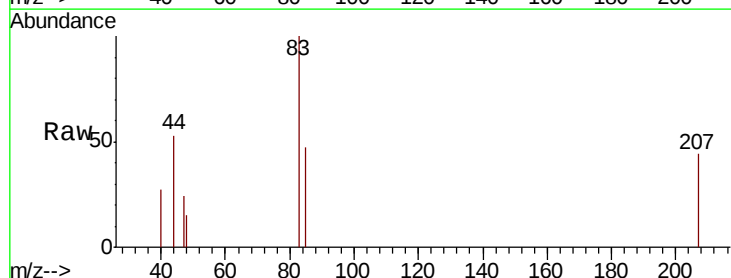
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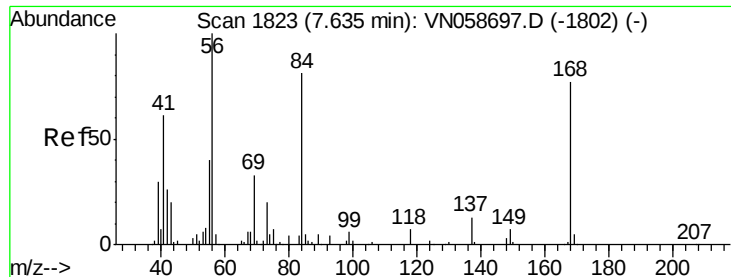
MMDadoda
10/16/2019 12:56:58 AM



#30
Chloroform
Concen: 0.329 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	46.8	51.0	76.6#





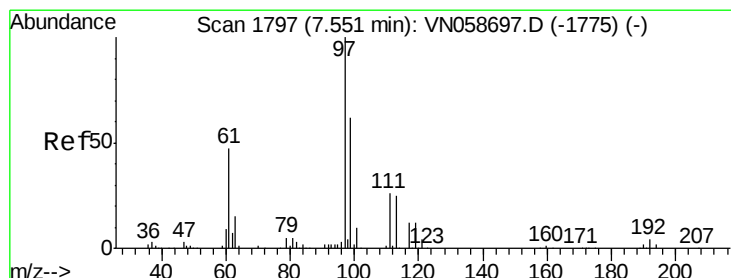
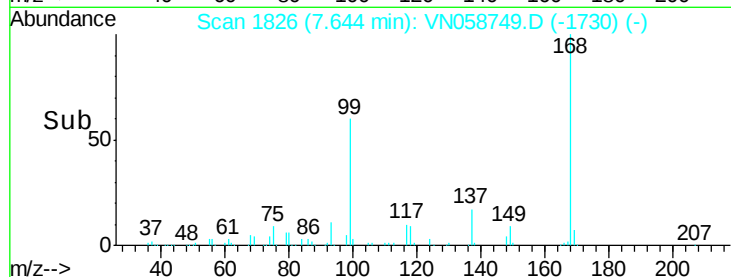
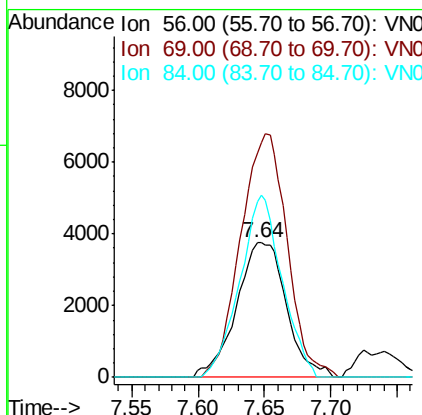
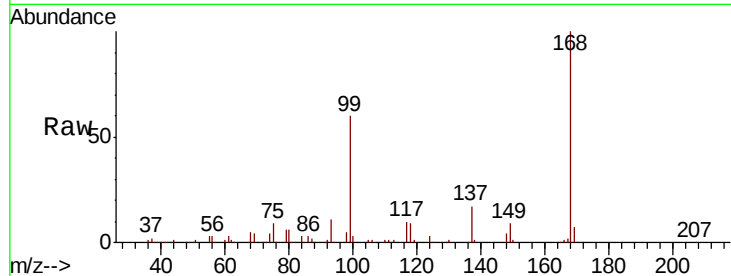
#31
Cyclohexane
Concen: 1.266 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	166.5	26.2	39.4#
84	130.4	64.9	97.3#

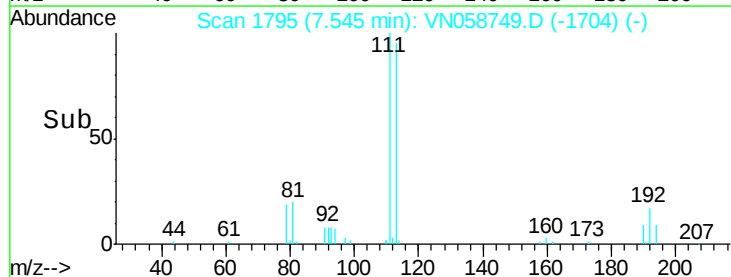
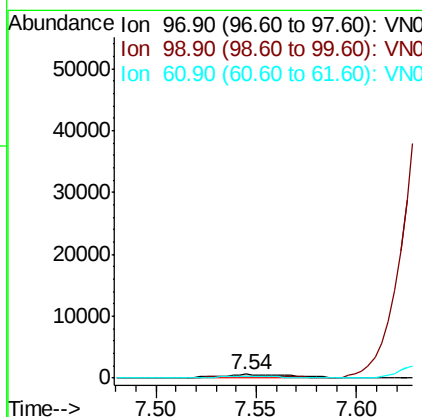
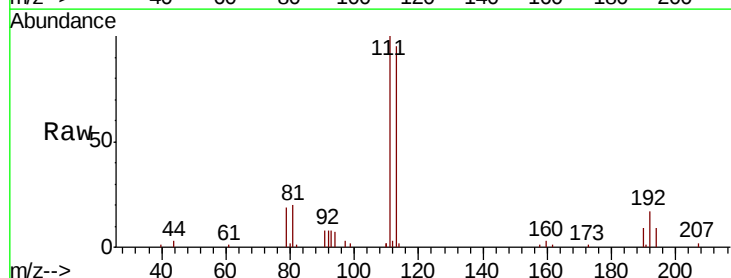
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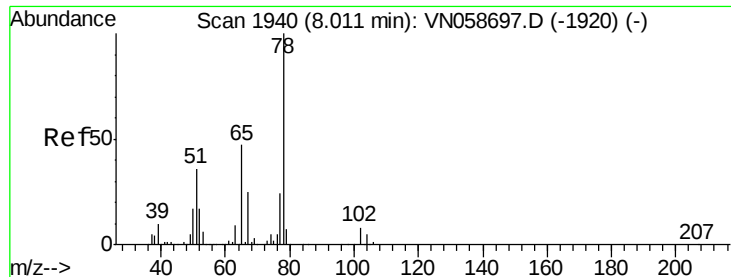
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#32
1,1,1-Trichloroethane
Concen: 0.212 ug/l m
RT: 7.54 min Scan# 1795
Delta R.T. -0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	38.7	38.1	57.1





#33

1,2-Dichloroethane-d4

Concen: 60.697 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 65 Resp: 321668

Ion Ratio Lower Upper

65 100

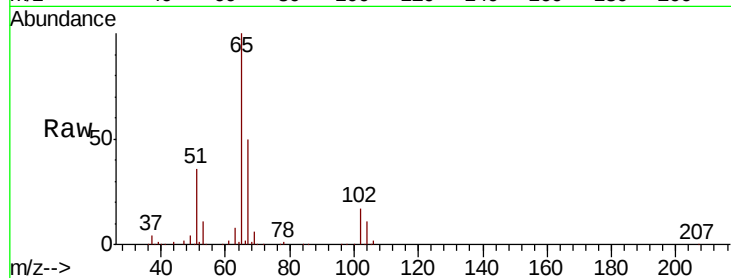
67 51.6 0.0 103.8

Manual Integrations

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MMDadoda

10/16/2019 12:56:58 AM



Abundance Ion 64.90 (64.60 to 65.60): VN058749.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058749.D (-1847) (-)

8.01

150000

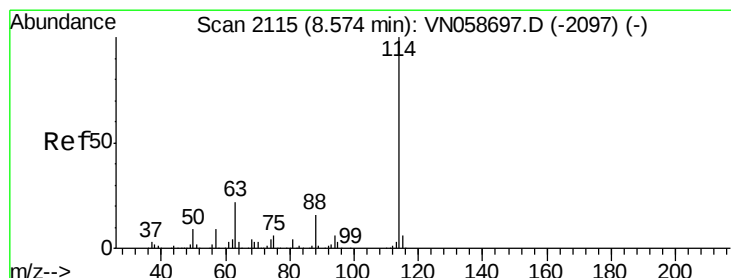
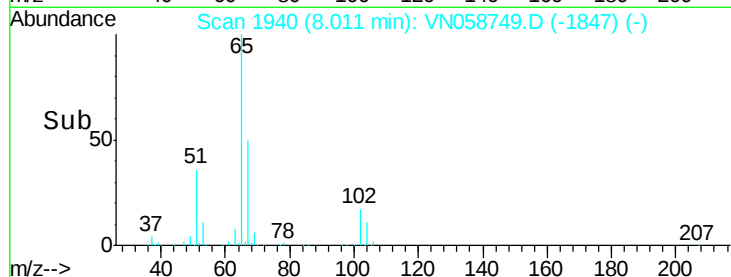
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

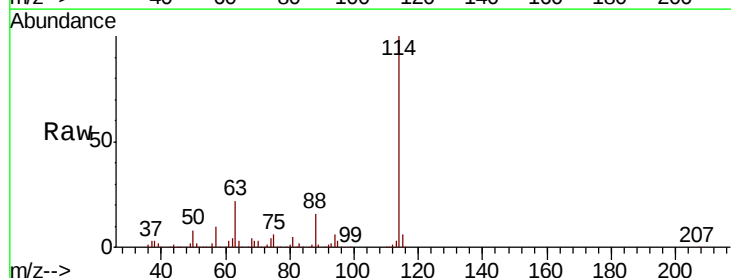
Tgt Ion: 114 Resp: 636759

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.8

88 15.6 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VN058749.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058749.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058749.D (-2022) (-)

8.57

400000

300000

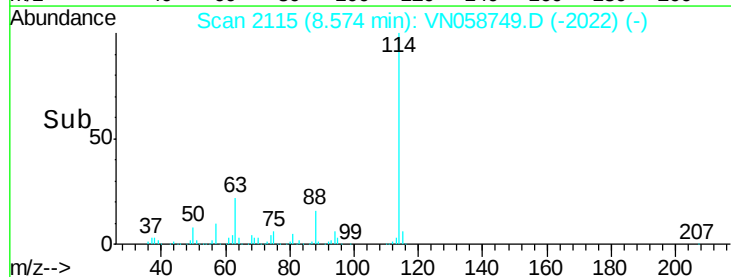
200000

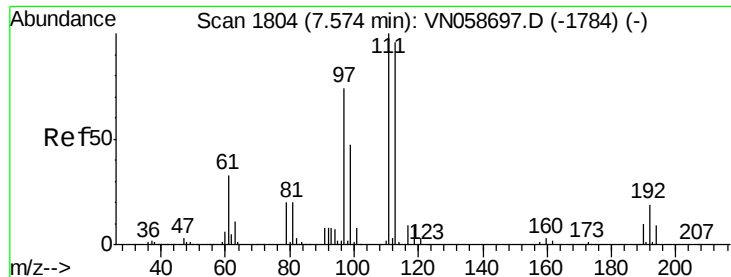
100000

0

8.45 8.50 8.55 8.60 8.65

Time-->





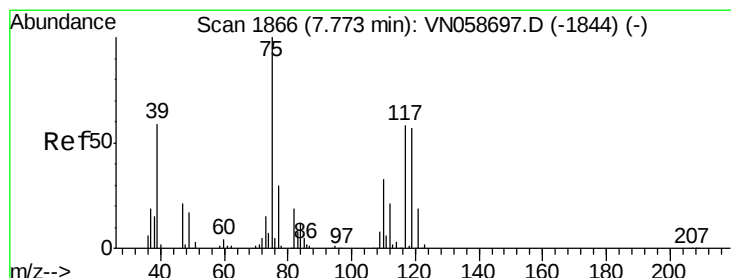
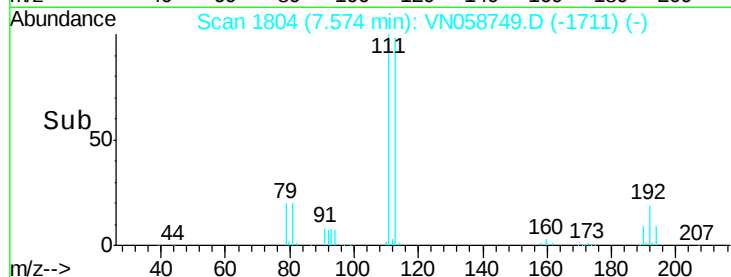
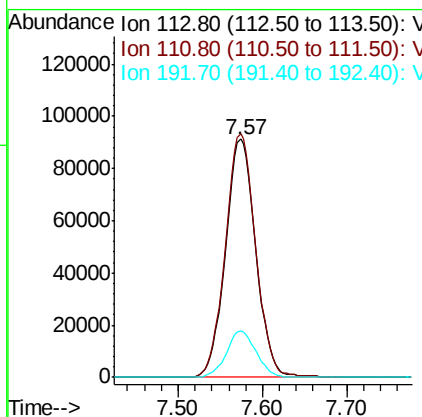
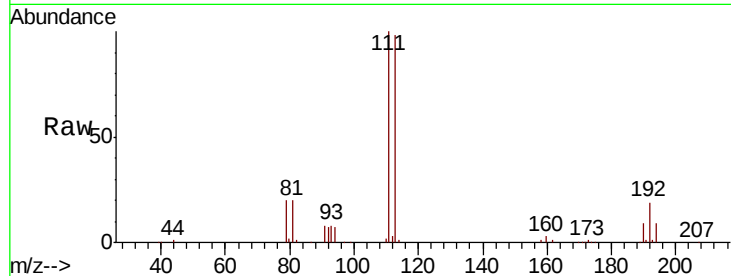
#35
 Dibromofluoromethane
 Concen: 57.819 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	227411		
111	102.3	82.3	123.5	
192	19.1	15.0	22.6	

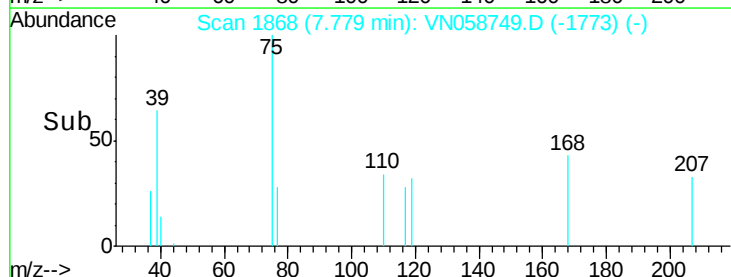
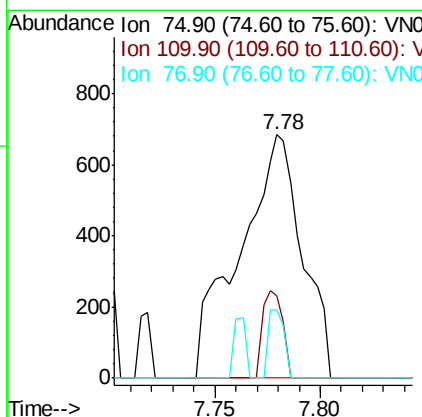
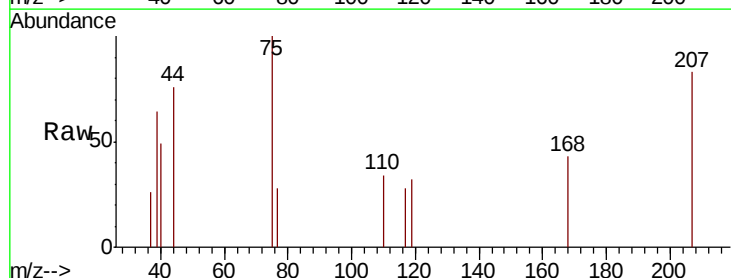
Manual Integrations
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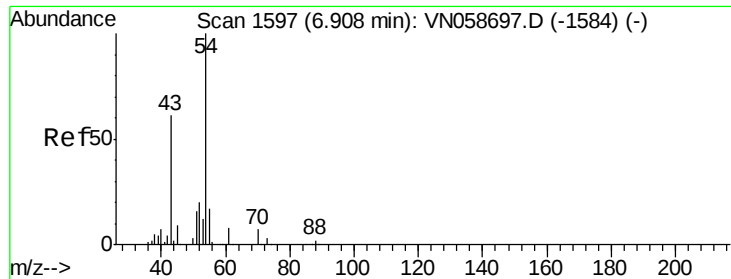
MMDadoda
 10/16/2019 12:56:58 AM



#36
 1,1-Dichloropropene
 Concen: 0.220 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. 0.01 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1415		
110	11.4	16.6	49.8#	
77	7.3	24.6	37.0#	





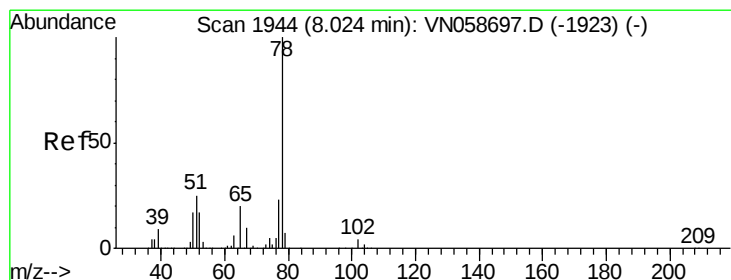
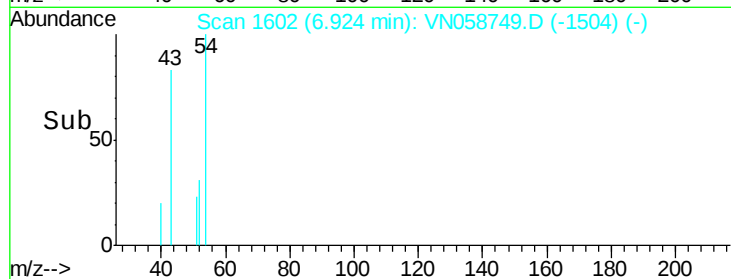
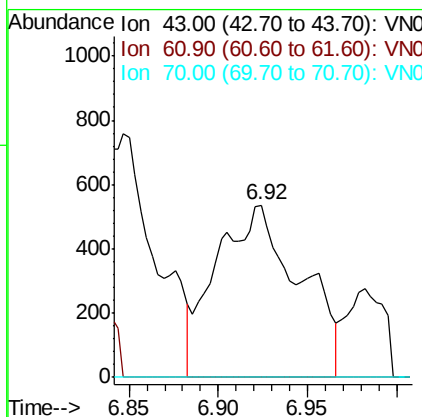
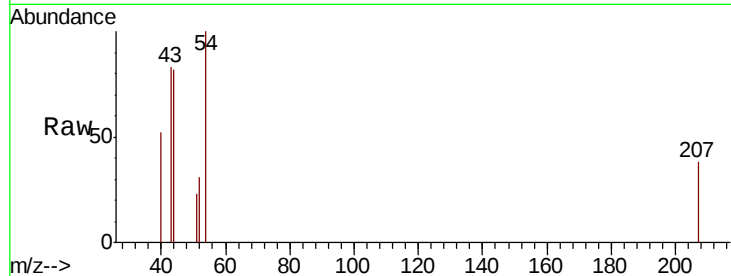
#37
Ethyl Acetate
Concen: 0.269 ug/l m
RT: 6.92 min Scan# 1602
Delta R.T. 0.02 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	7.2	10.8#

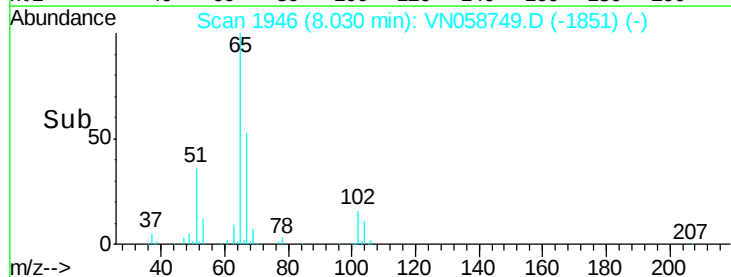
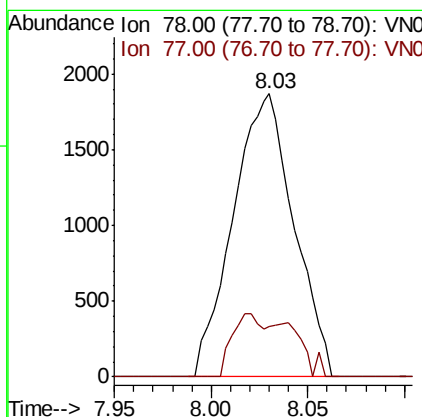
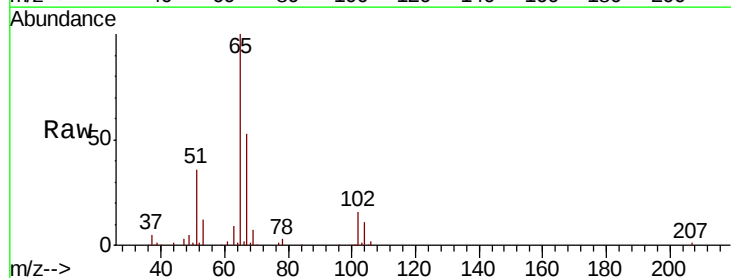
Manual Integrations
APPROVED

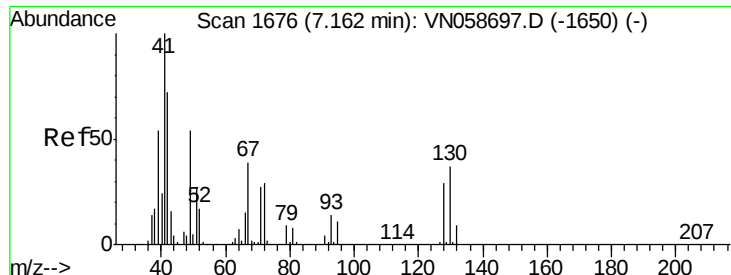
MMDadoda
10/16/2019 12:56:58 AM



#40
Benzene
Concen: 0.221 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.7	18.8	28.2#





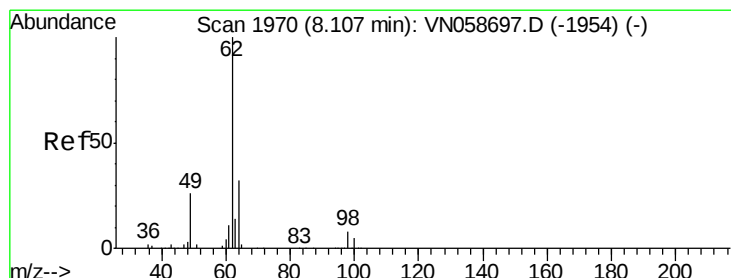
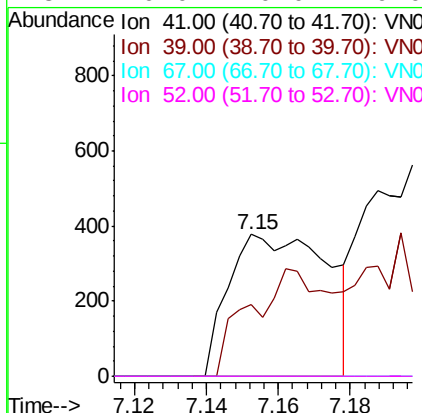
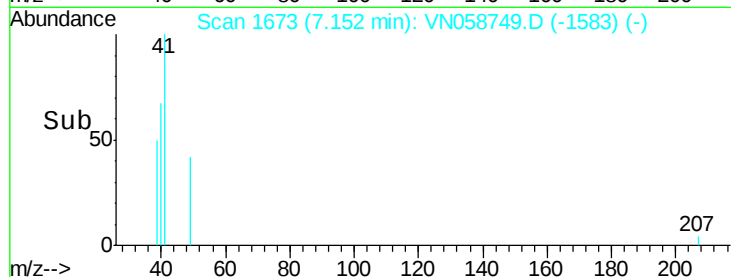
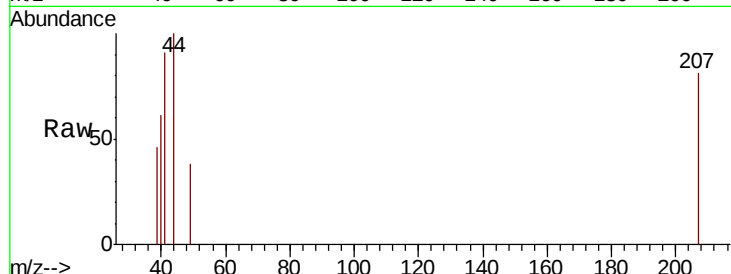
#41
Methacrylonitrile
Concen: 0.238 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. -0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:	41	Resp:	726
Ion	Ratio	Lower	Upper
41	100		
39	56.3	115.4	173.2#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

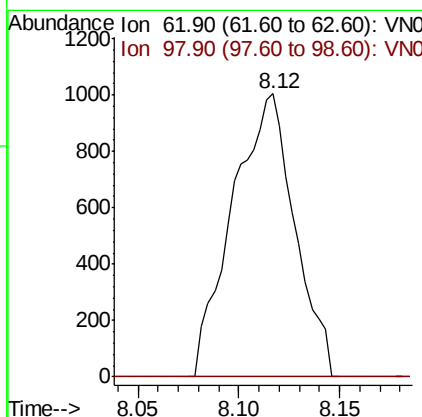
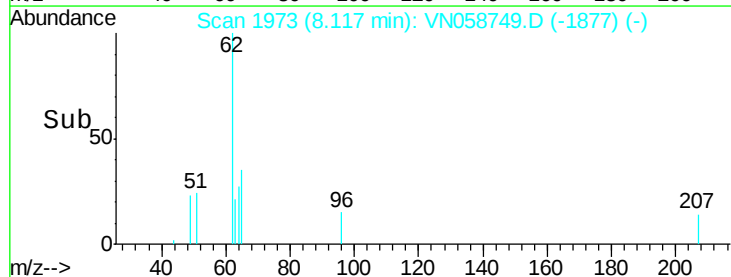
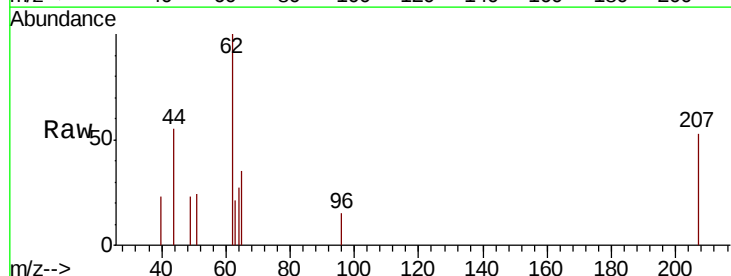
Manual Integrations
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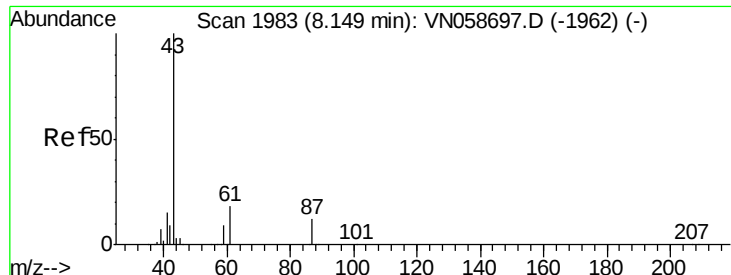
MMDadoda
10/16/2019 12:56:58 AM



#42
1,2-Dichloroethane
Concen: 0.303 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion:	62	Resp:	2154
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	15.8





#43

Isopropyl Acetate

Concen: 0.202 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

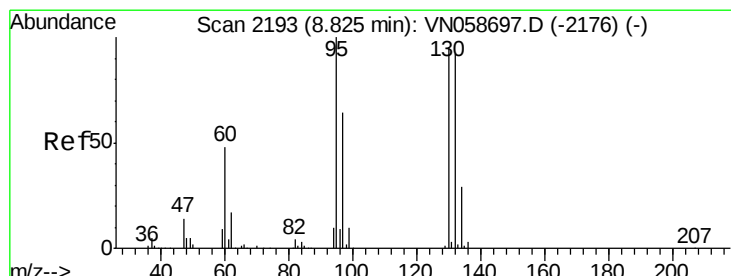
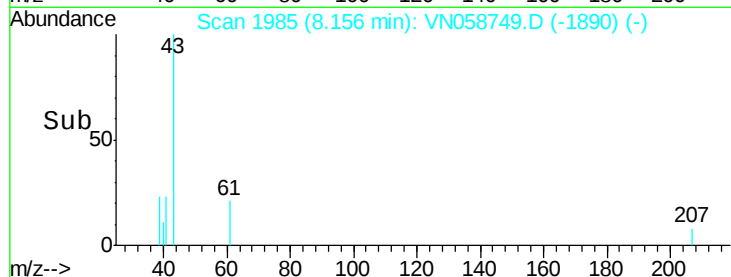
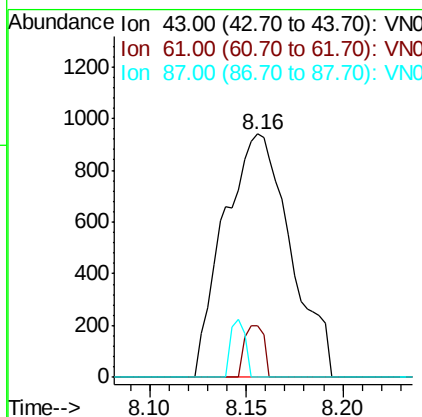
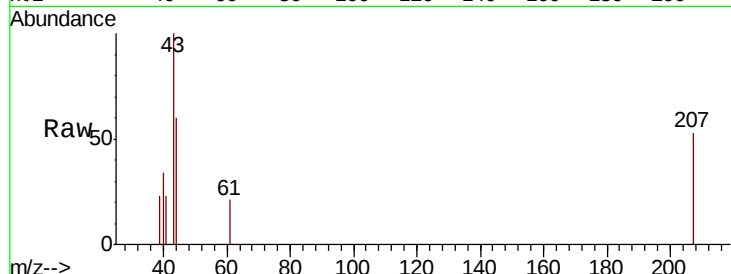
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	43	Resp:	2243
Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.3	30.5#
87	5.1	9.8	14.6#

Manual Integrations
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#44

Trichloroethene

Concen: 0.219 ug/l m

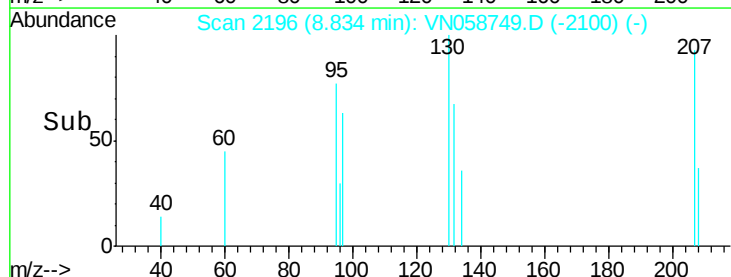
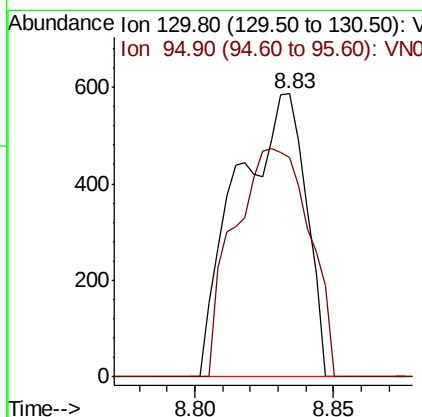
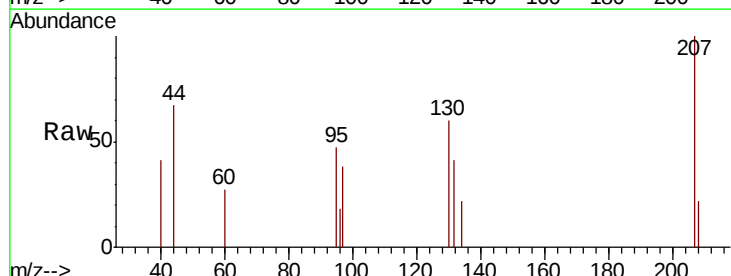
RT: 8.83 min Scan# 2196

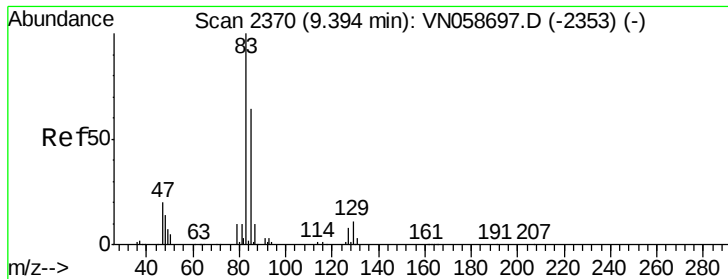
Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Tgt Ion:	130	Resp:	1006
Ion	Ratio	Lower	Upper
130	100		
95	77.3	0.0	211.2





#47

Bromodichloromethane

Concen: 0.226 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

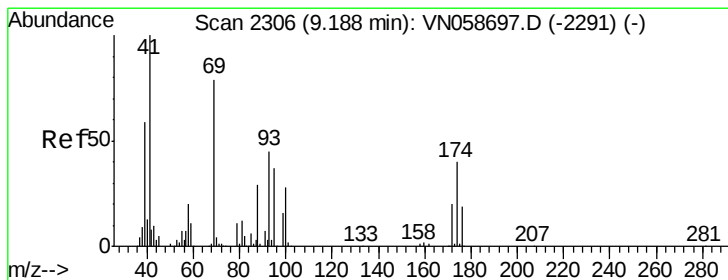
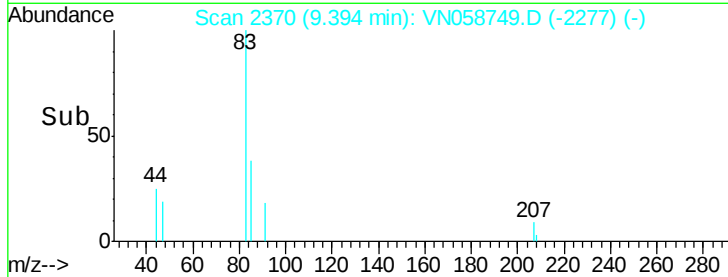
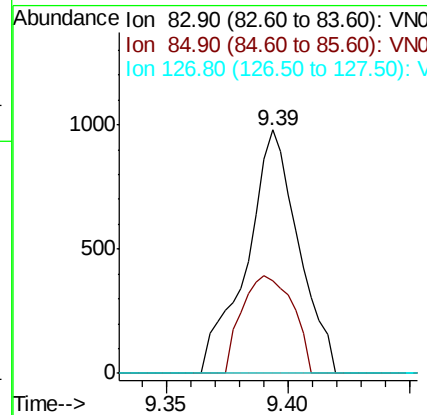
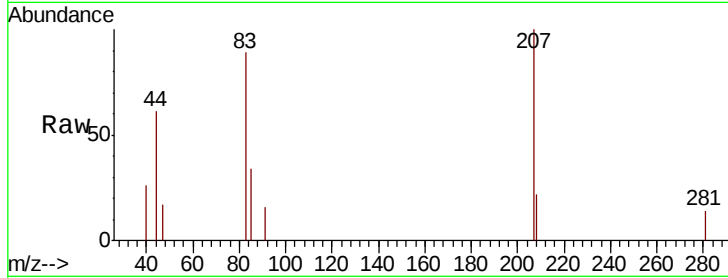
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	1442
Ion	Ratio	Lower	Upper
83	100		
85	38.0	50.9	76.3#
127	0.0	6.3	9.5#

Manual Integrations
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#49

1,4-Dioxane

Concen: 1.376 ug/l

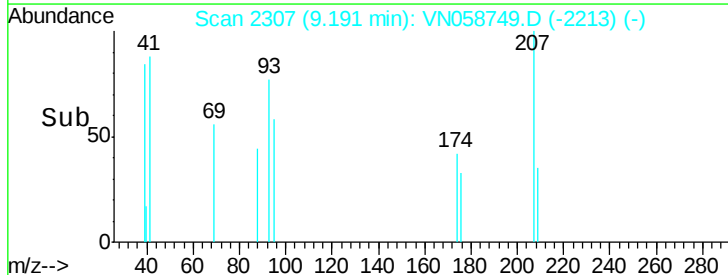
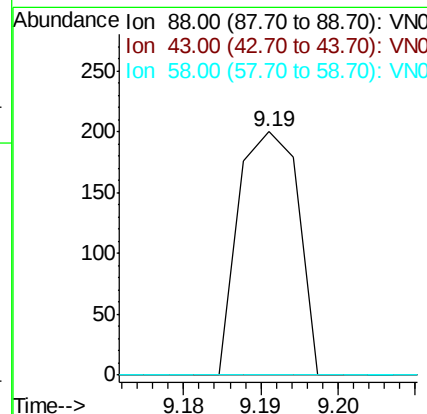
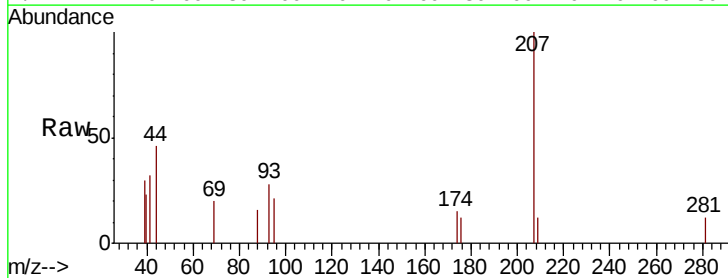
RT: 9.19 min Scan# 2307

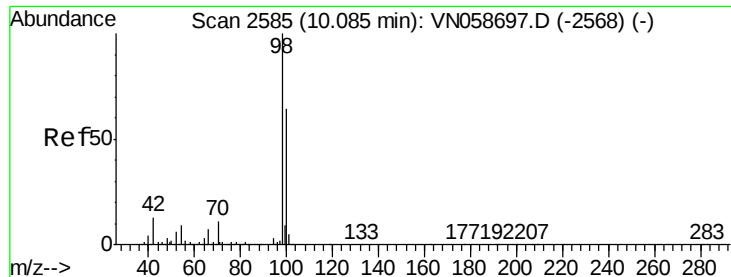
Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Tgt Ion:	88	Resp:	107
Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.6	43.0#
58	0.0	57.2	85.8#





#50

Toluene-d8

Concen: 53.376 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 98 Resp: 839503

Ion Ratio Lower Upper

98 100

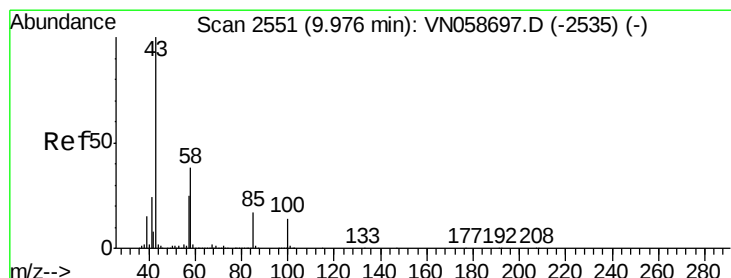
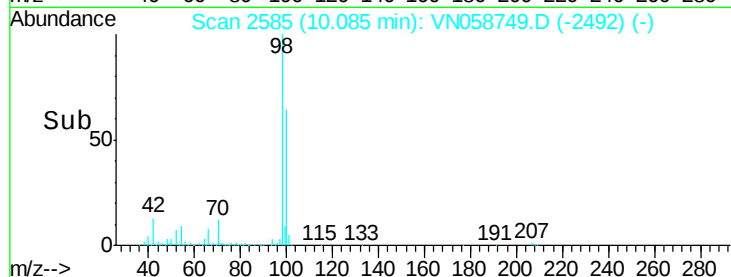
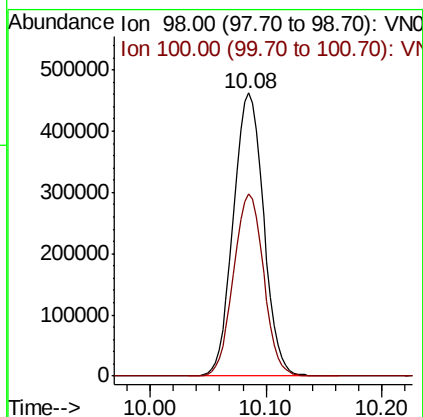
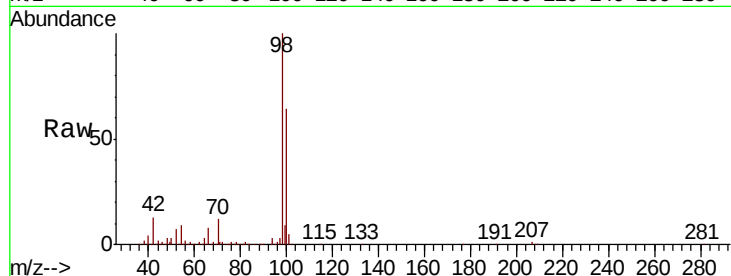
100 64.2 51.1 76.7

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#51

4-Methyl-2-Pentanone

Concen: 0.972 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058749.D

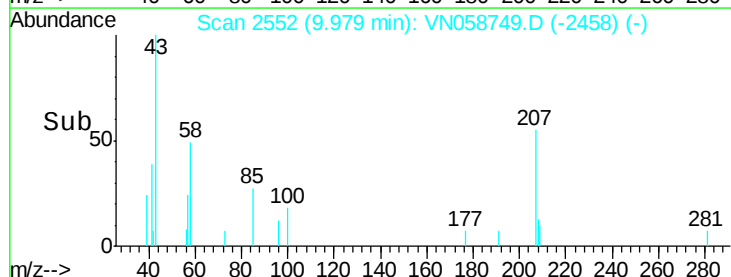
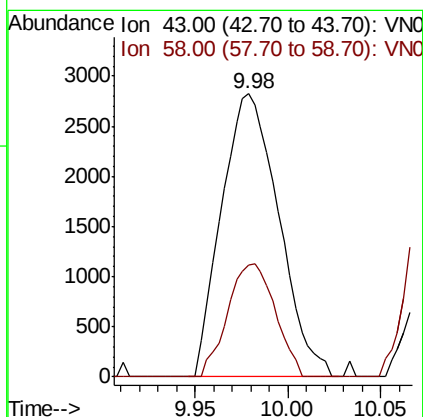
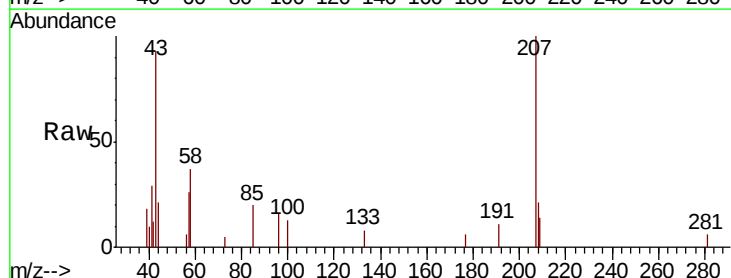
Acq: 14 Oct 2019 15:04

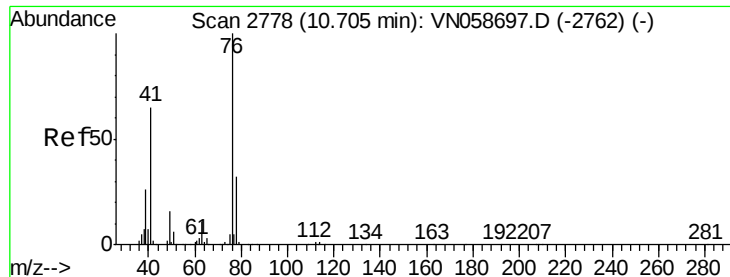
Tgt Ion: 43 Resp: 6056

Ion Ratio Lower Upper

43 100

58 33.2 30.3 45.5





#57

1,3-Dichloropropane

Concen: 0.203 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 1603

Ion Ratio Lower Upper

76 100

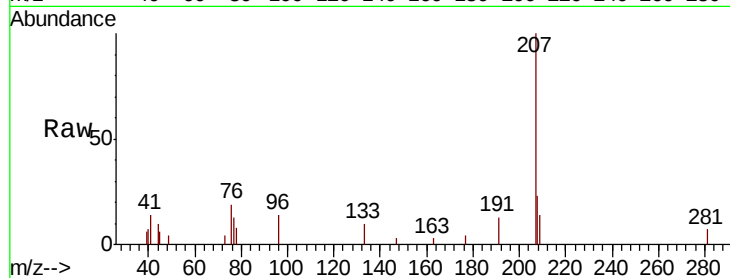
78 43.9 25.9 38.9#

Manual Integrations

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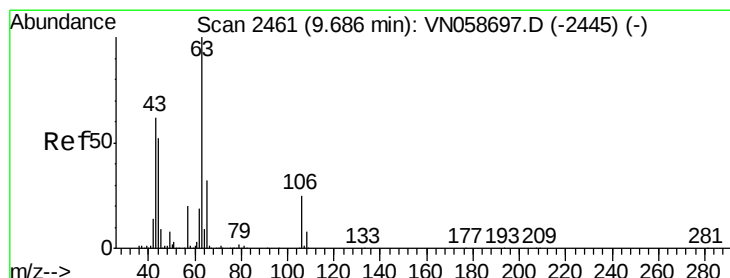
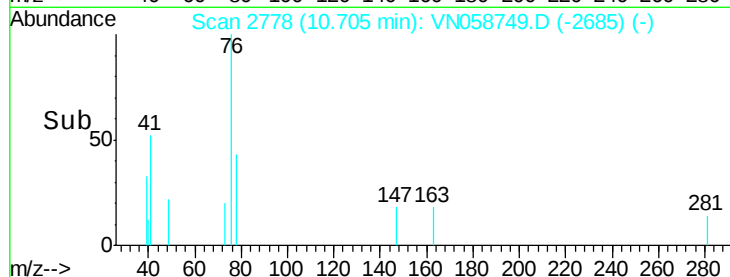
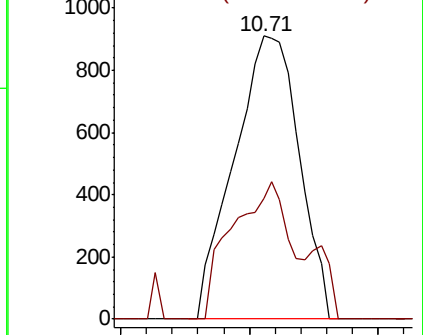
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 0.716 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.01 min

Lab File: VN058749.D

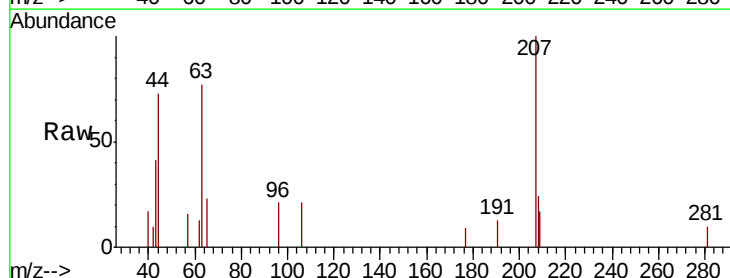
Acq: 14 Oct 2019 15:04

Tgt Ion: 63 Resp: 2334

Ion Ratio Lower Upper

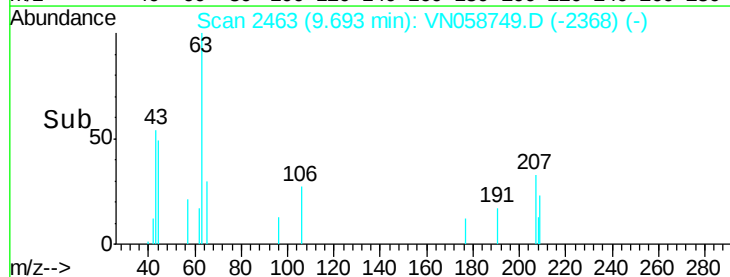
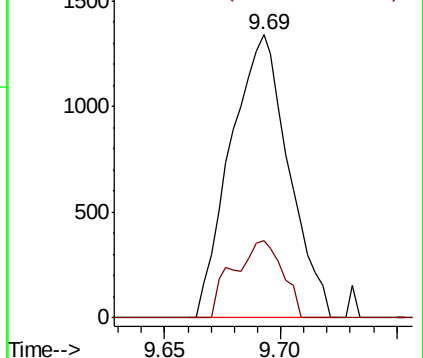
63 100

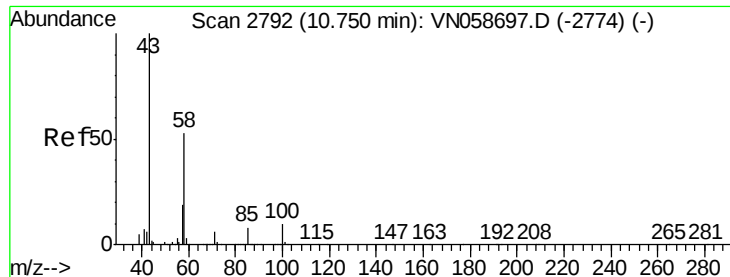
106 23.1 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





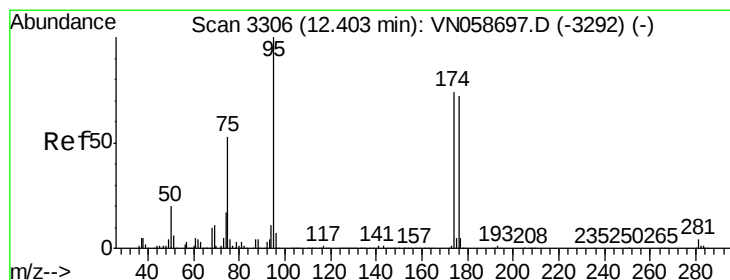
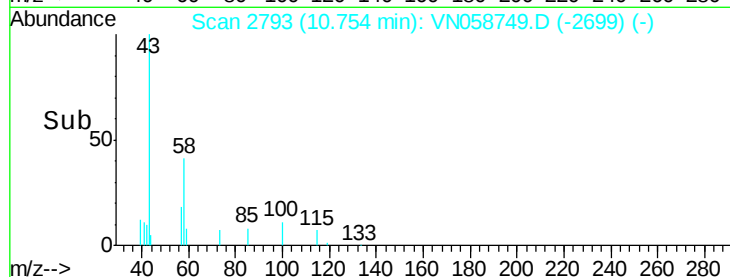
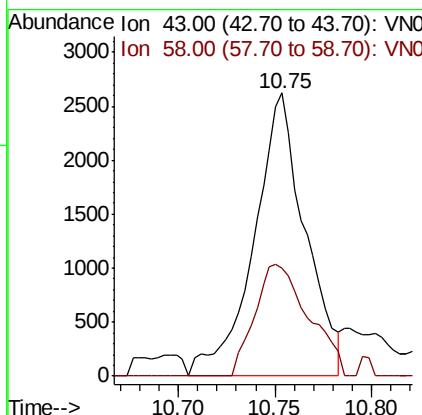
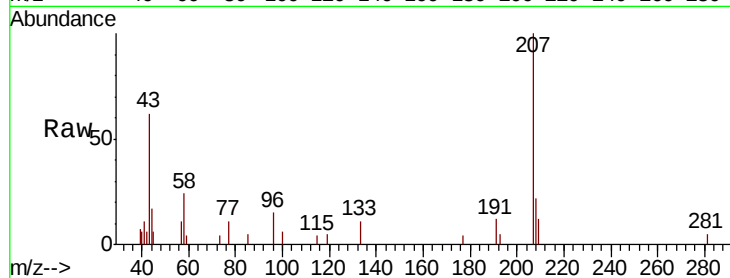
#59
2-Hexanone
Concen: 1.000 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.6	26.1	78.3

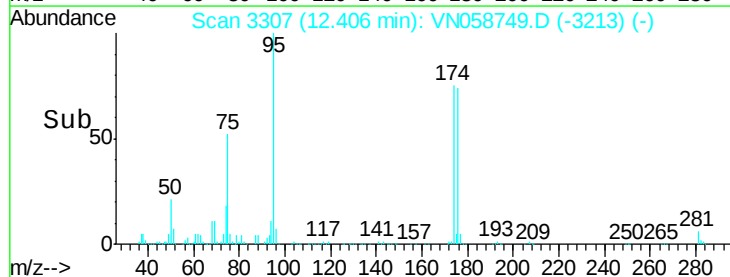
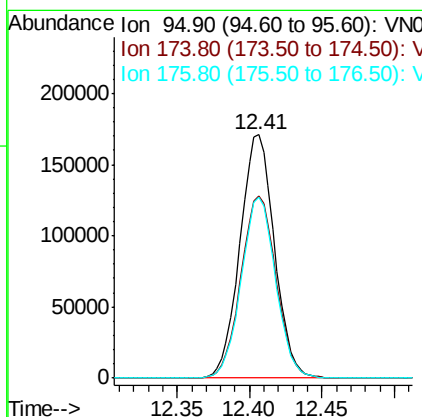
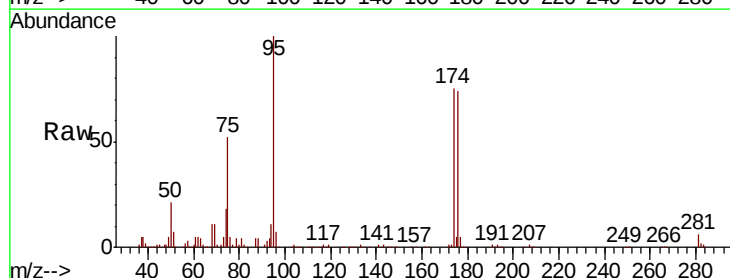
Manual Integrations
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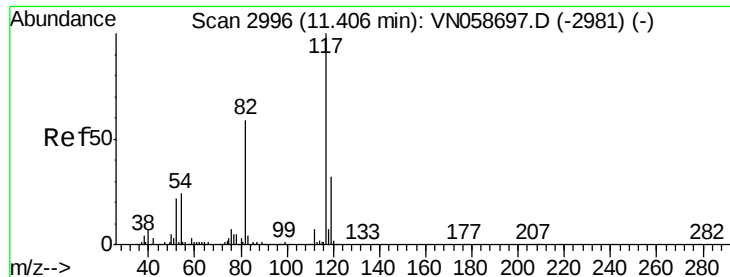
MMDadoda
10/16/2019 12:56:58 AM



#62
4-Bromofluorobenzene
Concen: 47.657 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	150.4
176	74.0	0.0	146.8





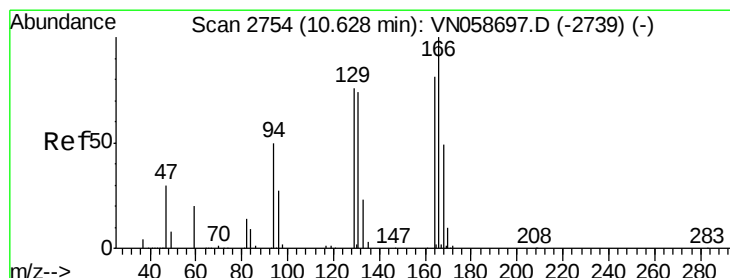
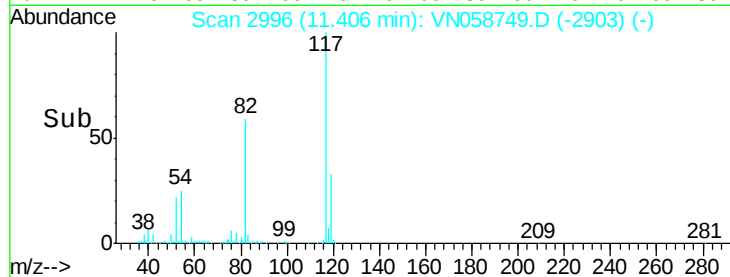
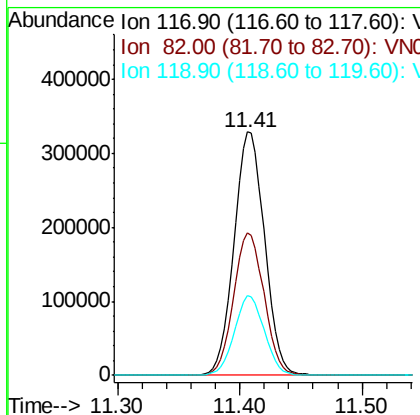
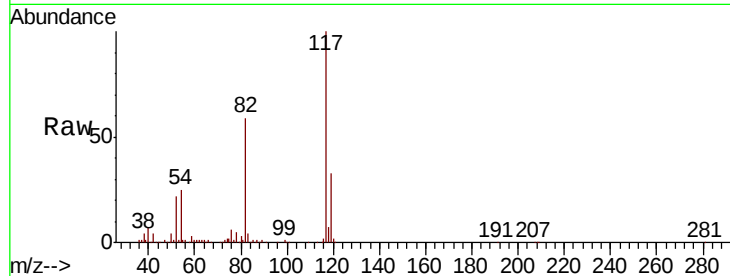
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.0	70.4
119	32.5	25.4	38.2

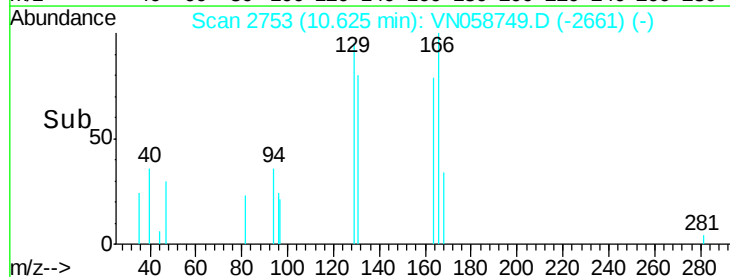
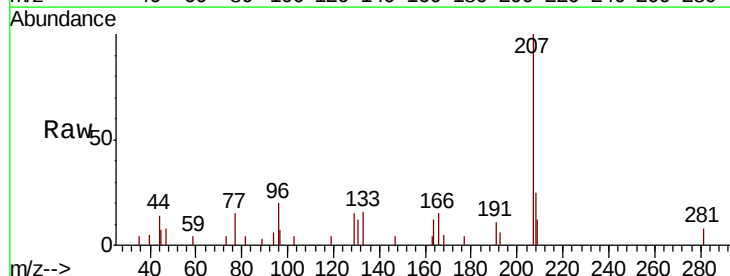
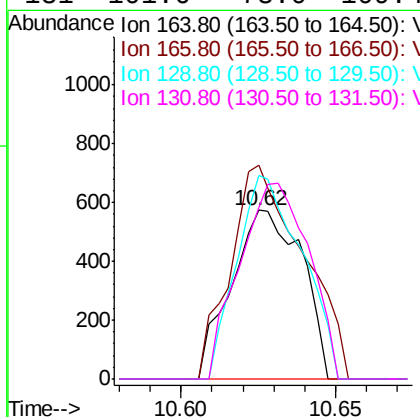
Manual Integrations
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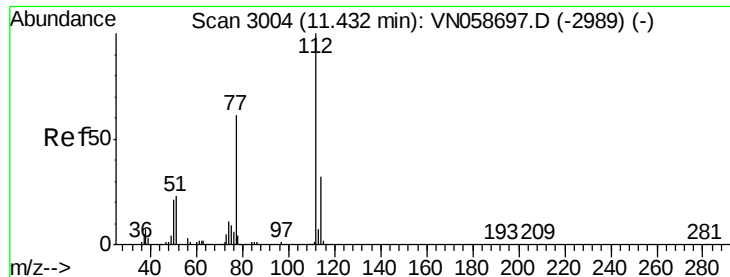
MMDadoda
10/16/2019 12:56:58 AM



#64
Tetrachloroethene
Concen: 0.228 ug/l
RT: 10.62 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	99.3	148.9
129	120.9	75.2	112.8
131	101.6	73.0	109.4





#65

Chlorobenzene

Concen: 0.205 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:112 Resp: 2368

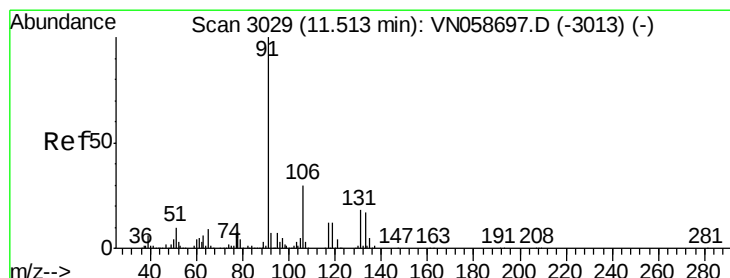
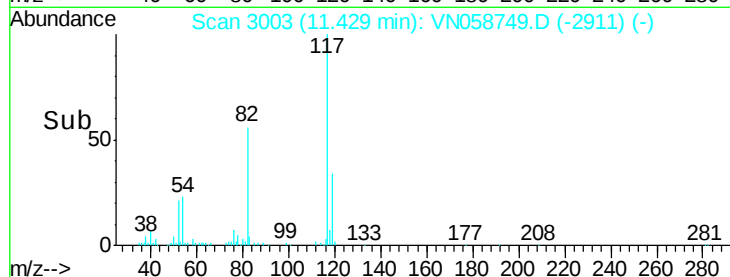
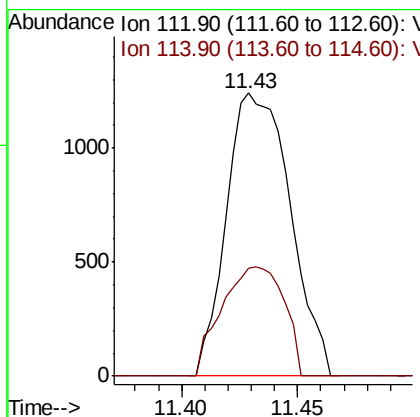
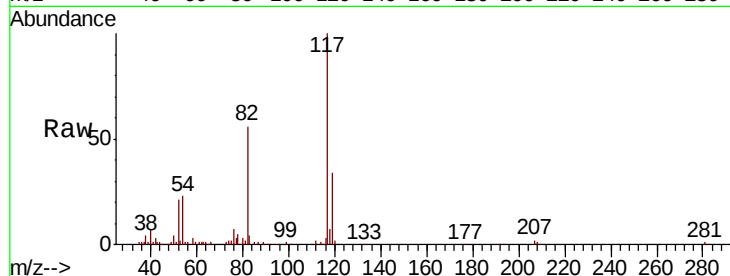
Ion Ratio Lower Upper

112 100

114 38.0 25.2 37.8#

Manual Integrations
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#67

Ethyl Benzene

Concen: 0.220 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058749.D

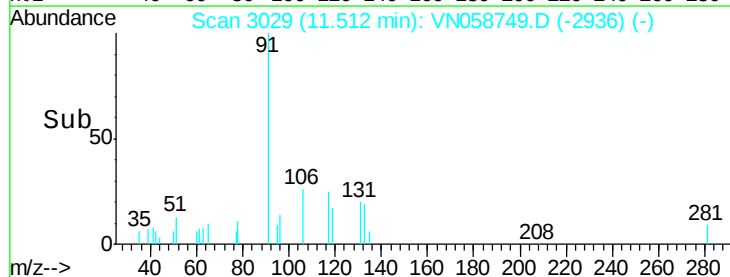
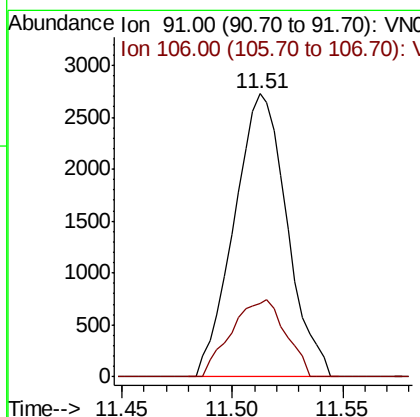
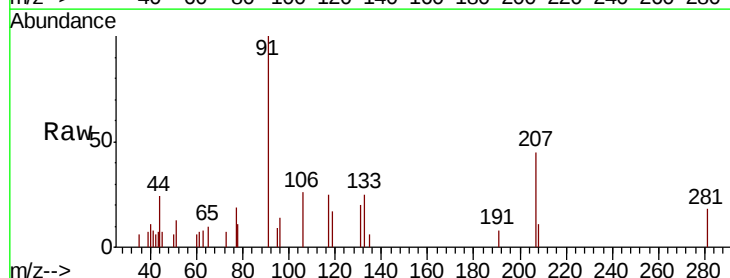
Acq: 14 Oct 2019 15:04

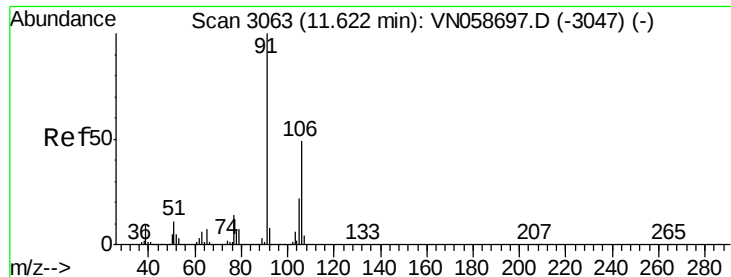
Tgt Ion: 91 Resp: 4542

Ion Ratio Lower Upper

91 100

106 25.9 24.1 36.1





#68

m/p-Xvlenes

Concen: 0.329 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:106 Resp: 2551

Ion Ratio Lower Upper

106 100

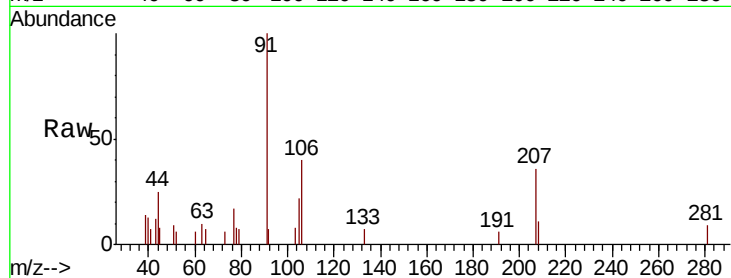
91 225.4 165.7 248.5

Manual Integrations

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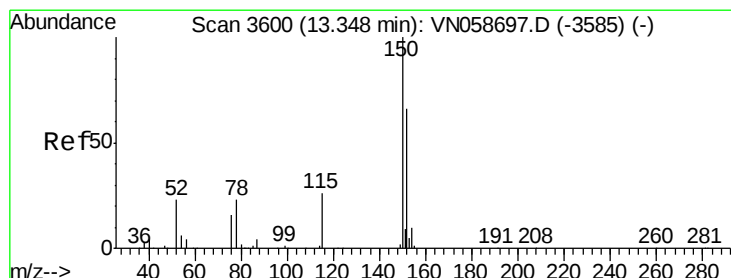
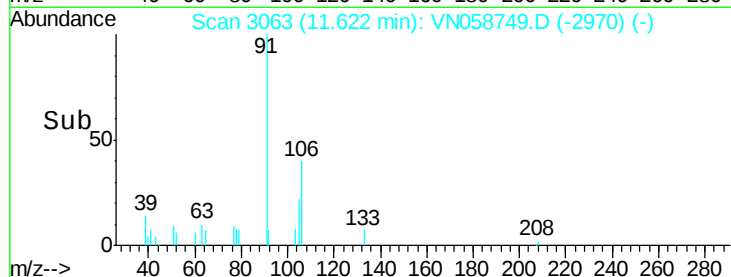
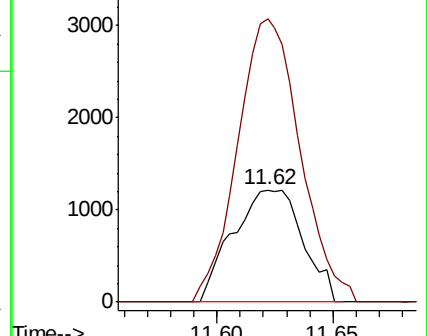
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

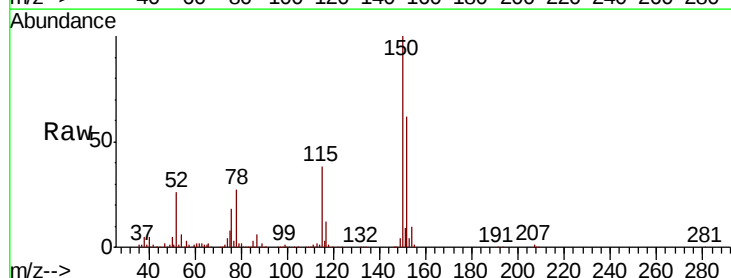
Tgt Ion:152 Resp: 234641

Ion Ratio Lower Upper

152 100

115 61.6 30.4 91.2

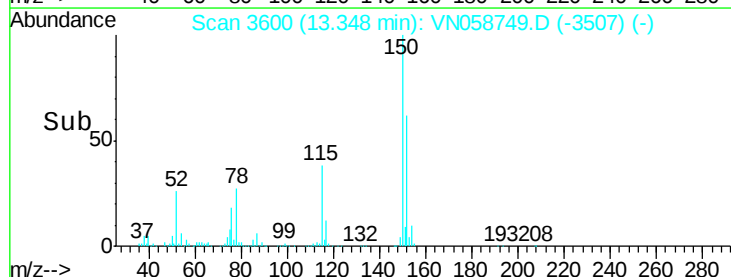
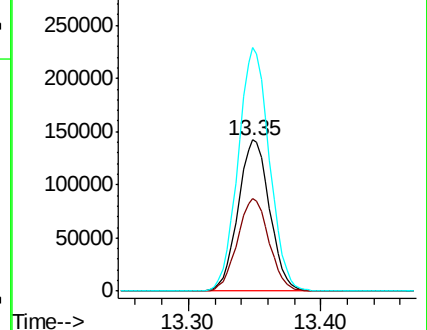
150 160.1 0.0 345.4

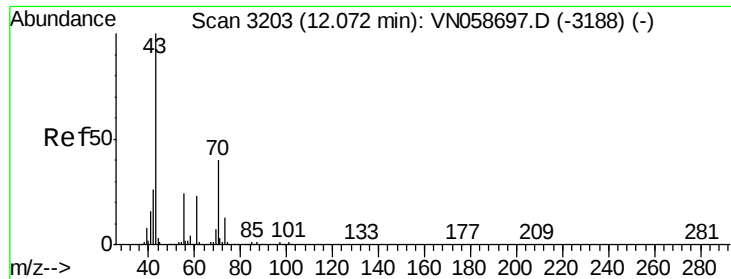


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.259 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

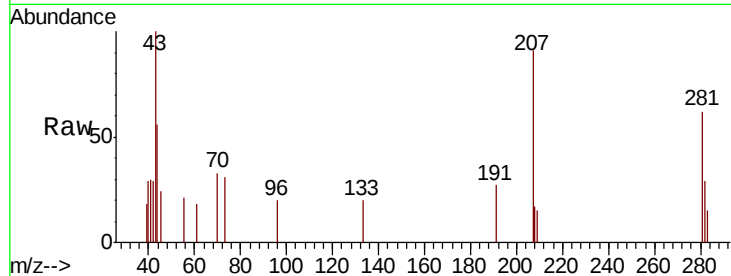
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 1979

Ion	Ratio	Lower	Upper
43	100		
70	25.5	32.2	48.4#
55	11.4	19.6	29.4#
61	13.4	18.6	28.0#

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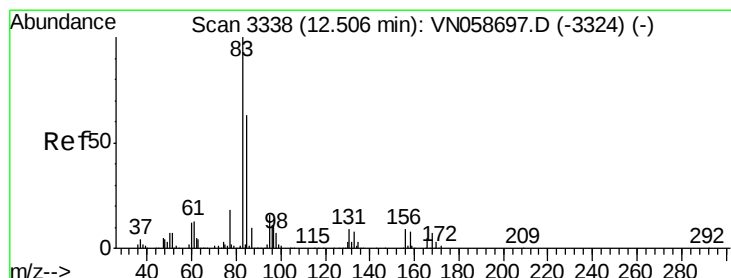
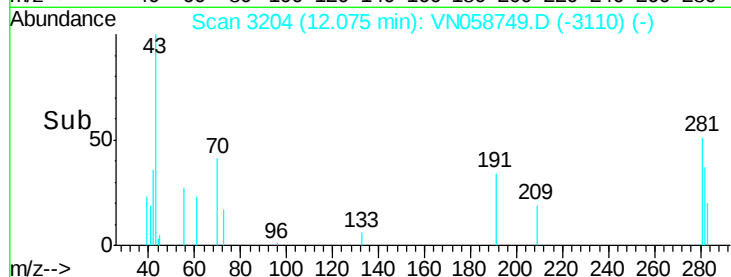
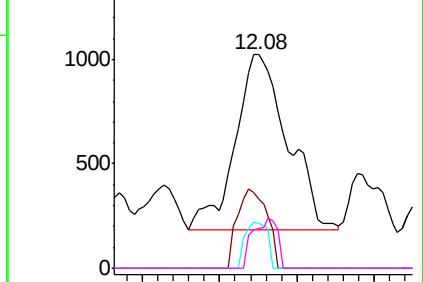
Abundance

Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#75

1,1,2,2-Tetrachloroethane

Concen: 0.265 ug/l

RT: 12.51 min Scan# 3339

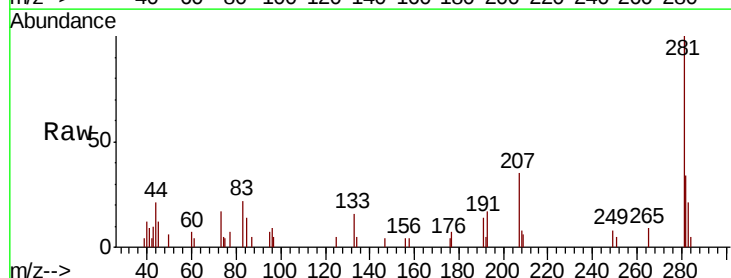
Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Tgt Ion: 83 Resp: 1483

Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	54.9	31.9	95.5

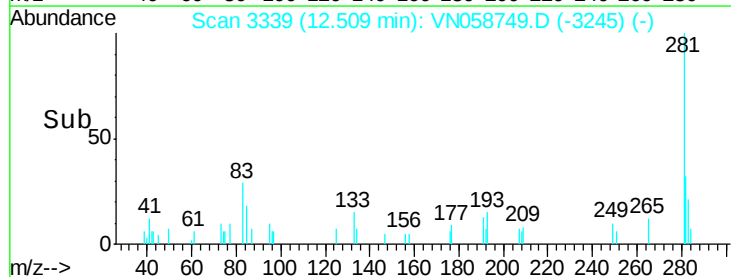
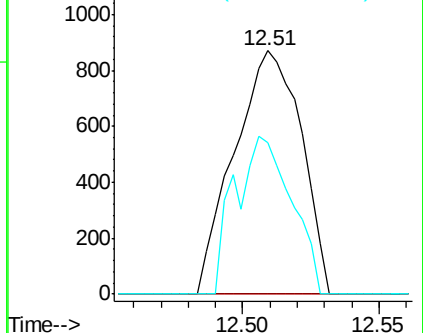


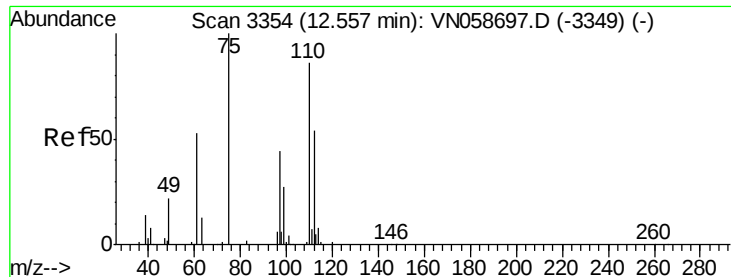
Abundance

Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNC





#76

1,2,3-Trichloropropane

Concen: 0.437 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 75 Resp: 2252

Ion Ratio Lower Upper

75 100

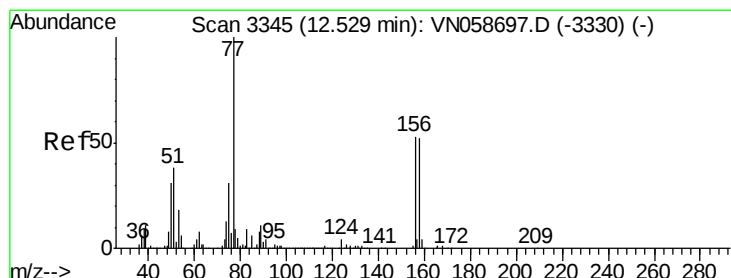
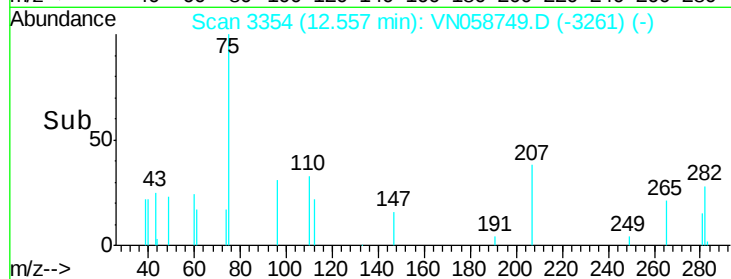
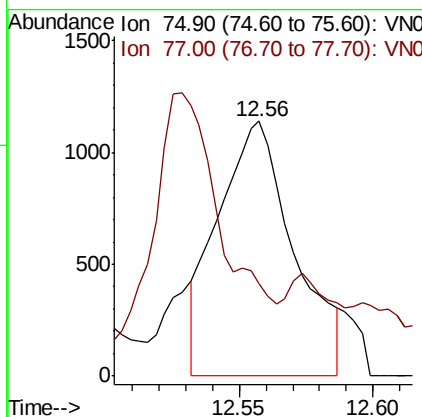
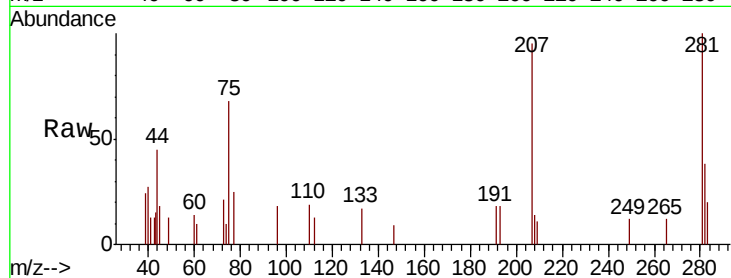
77 90.5 0.0 0.0#

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#77

Bromobenzene

Concen: 0.226 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

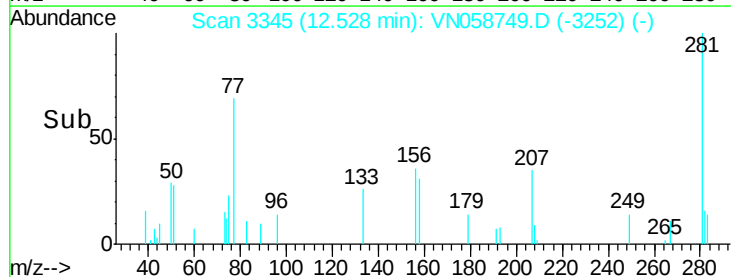
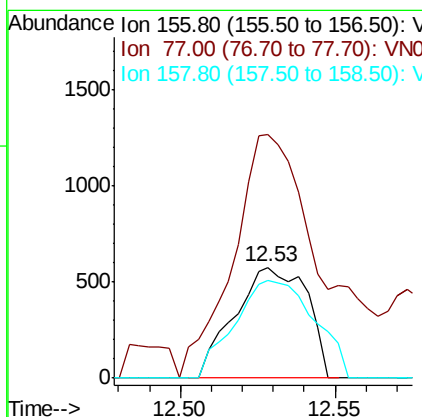
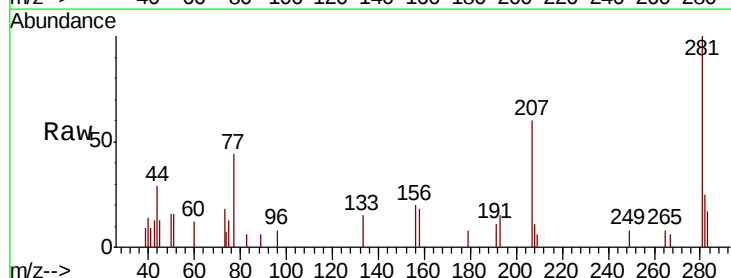
Tgt Ion: 156 Resp: 933

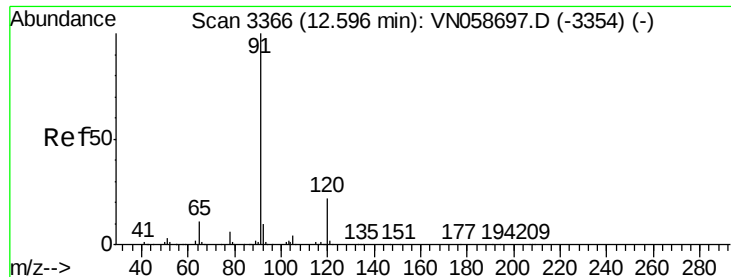
Ion Ratio Lower Upper

156 100

77 266.3 115.8 347.3

158 97.3 48.9 146.6





#78

n-propylbenzene

Concen: 0.206 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 4083

Ion Ratio Lower Upper

91 100

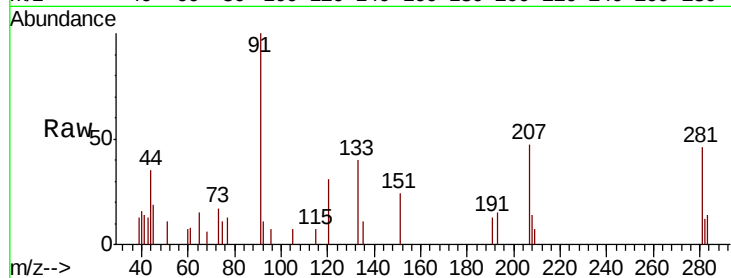
120 26.8 11.1 33.3

Manual Integrations

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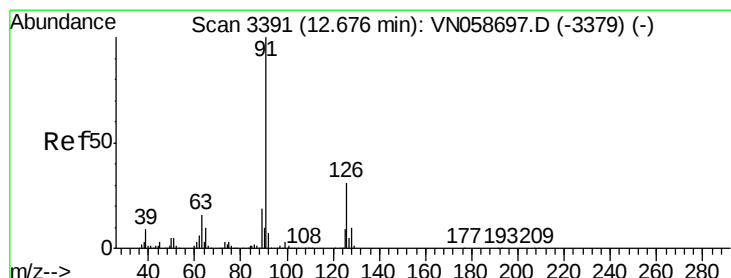
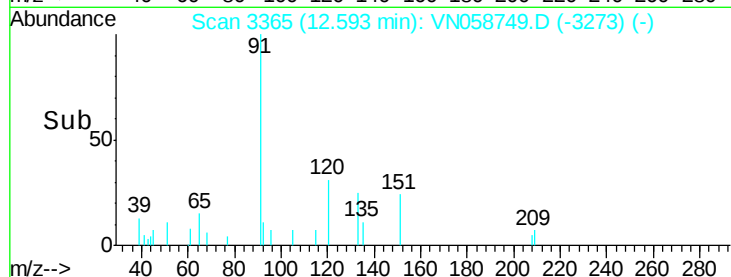
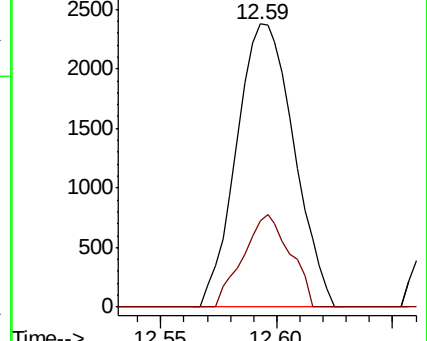
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.205 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058749.D

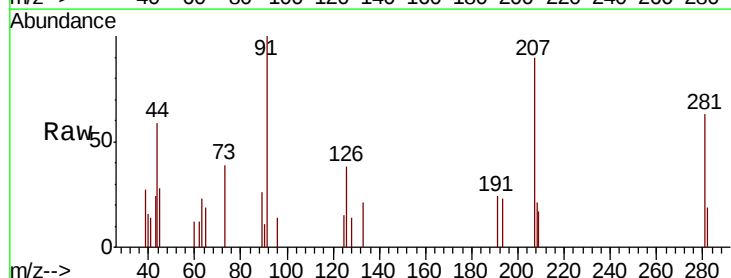
Acq: 14 Oct 2019 15:04

Tgt Ion: 91 Resp: 2516

Ion Ratio Lower Upper

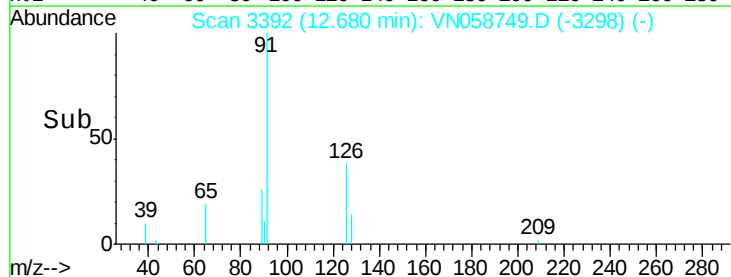
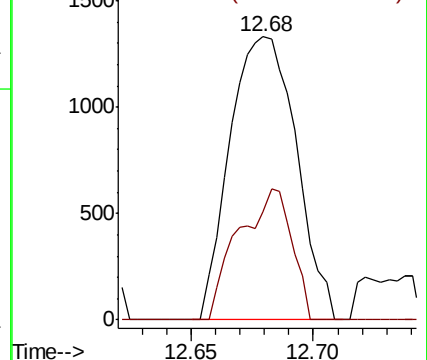
91 100

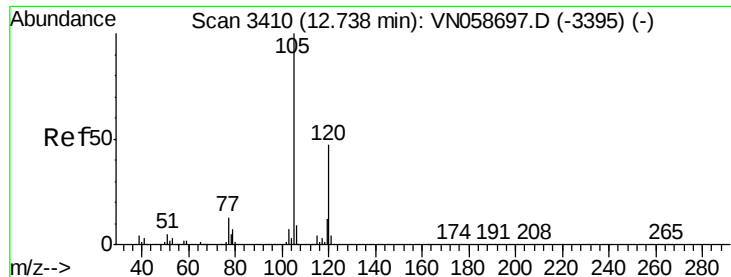
126 37.2 16.2 48.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





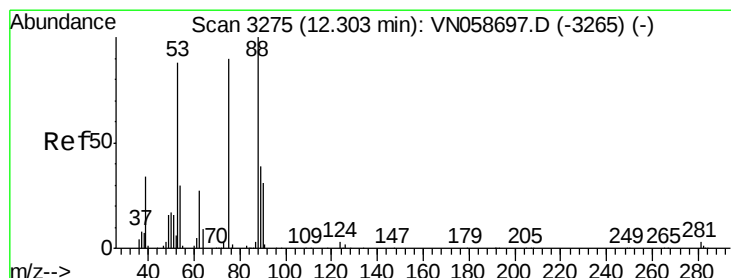
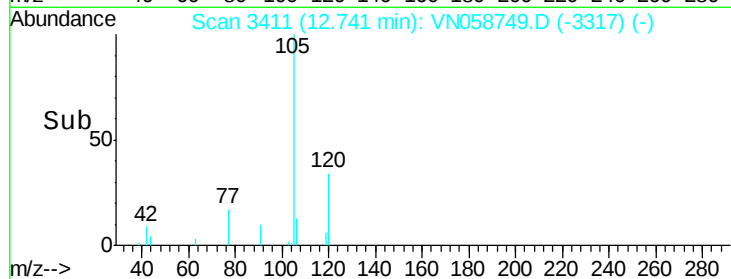
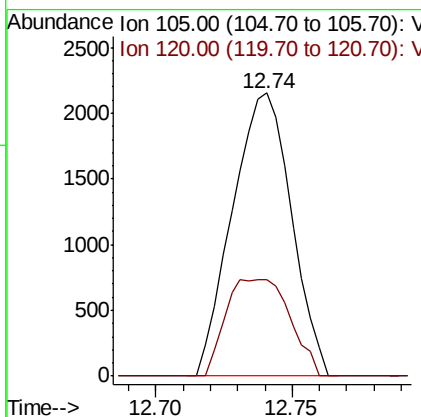
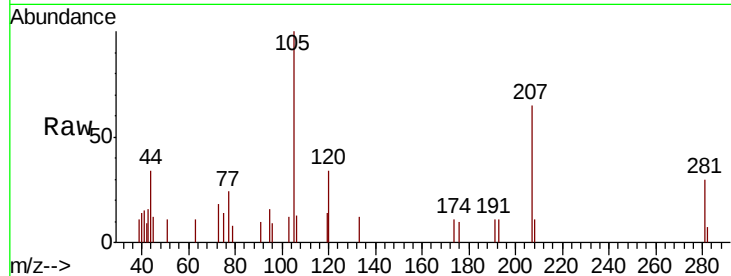
#80
 1,3,5-Trimethylbenzene
 Concen: 0.223 ug/l
 RT: 12.74 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	37.2	23.4	70.2

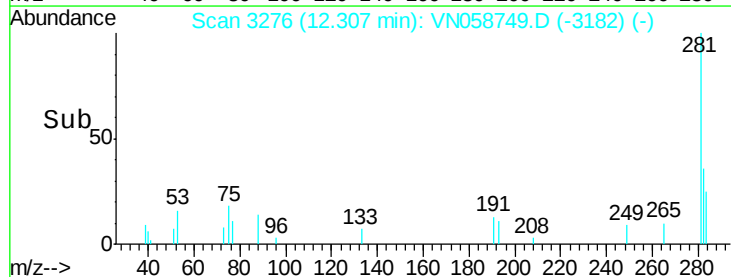
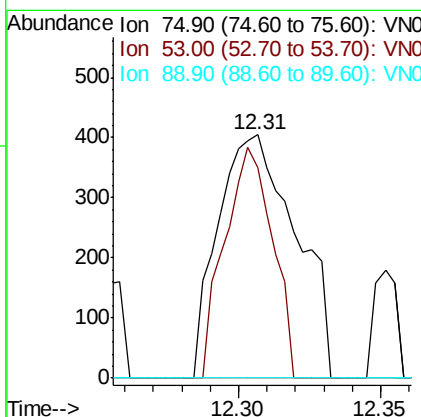
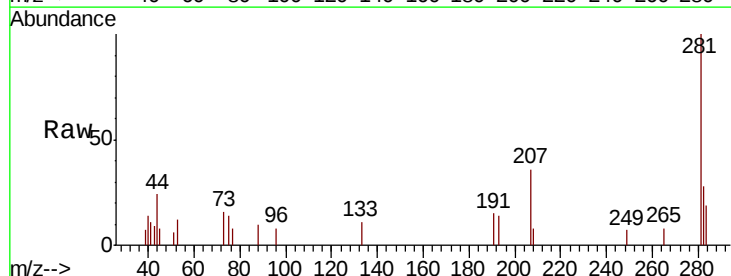
Manual Integrations
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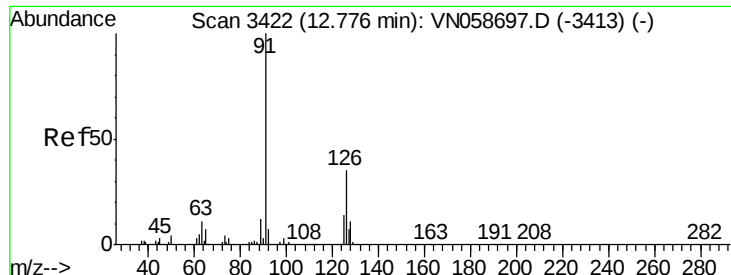
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#81
 trans-1,4-Dichloro-2-butene
 Concen: 0.400 ug/l m
 RT: 12.31 min Scan# 3276
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.4	117.6#
89	0.0	34.9	52.3#





#82

4-Chlorotoluene

Concen: 0.212 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 2677

Ion Ratio Lower Upper

91 100

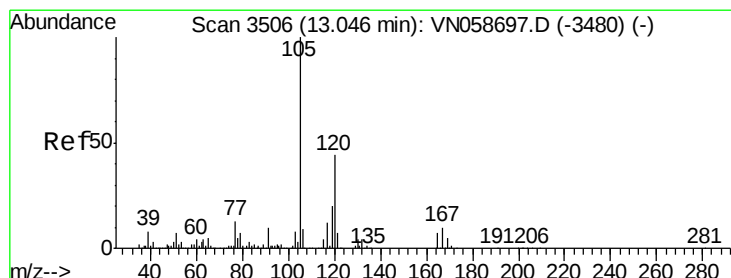
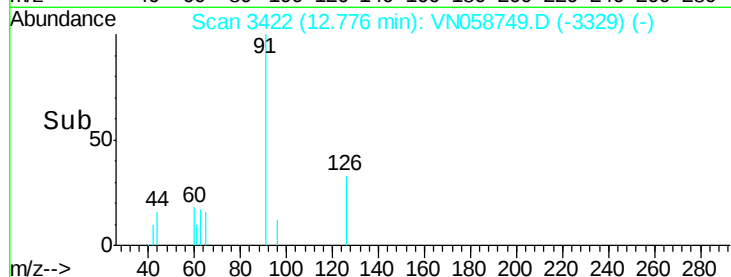
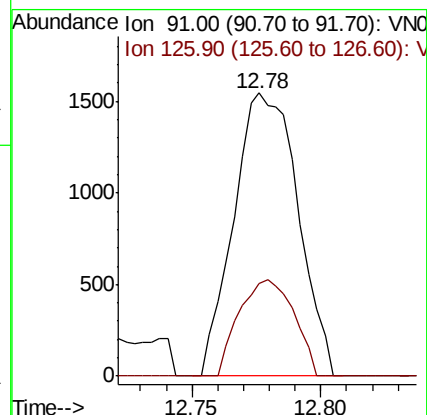
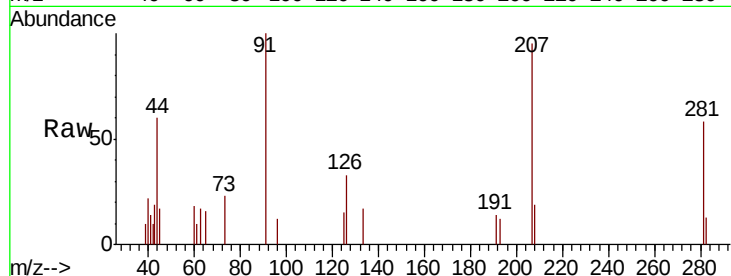
126 29.1 15.9 47.6

Manual Integrations

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#84

1,2,4-Trimethylbenzene

Concen: 0.205 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058749.D

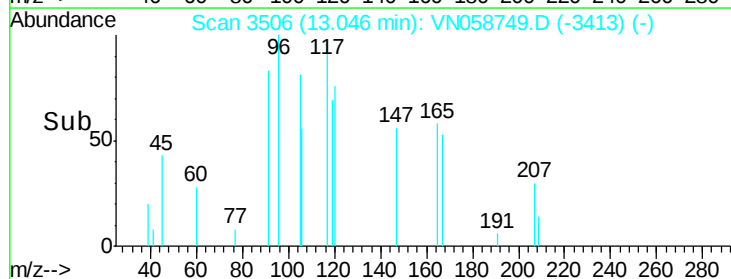
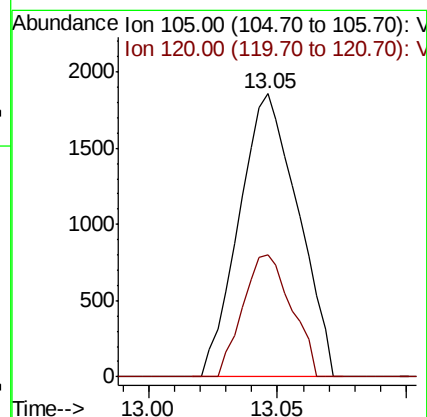
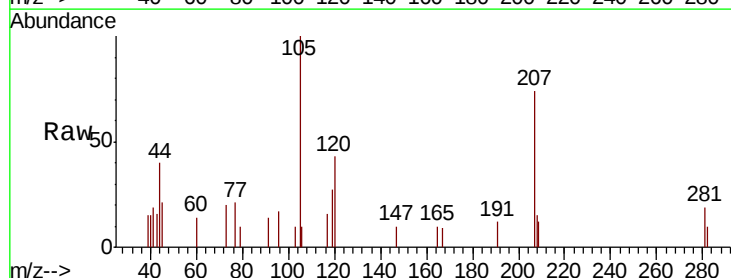
Acq: 14 Oct 2019 15:04

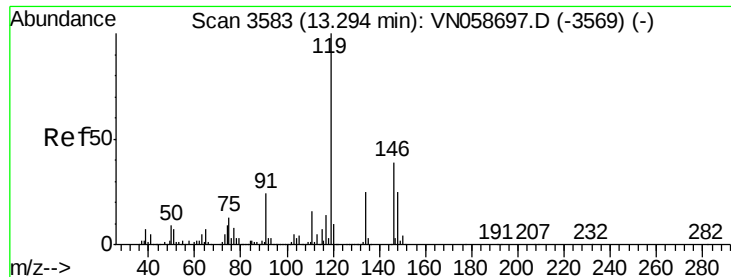
Tgt Ion: 105 Resp: 2959

Ion Ratio Lower Upper

105 100

120 35.5 21.9 65.7





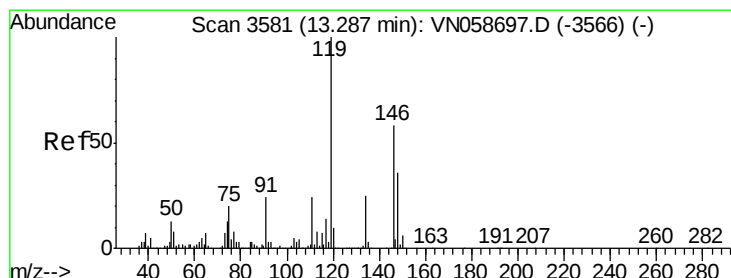
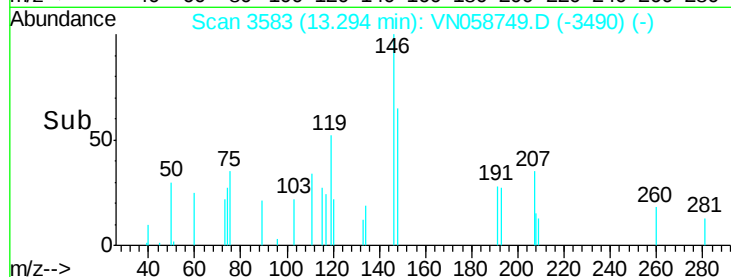
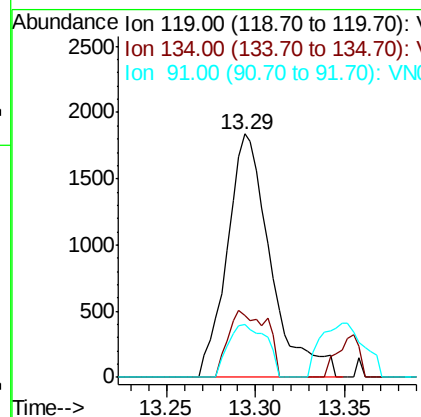
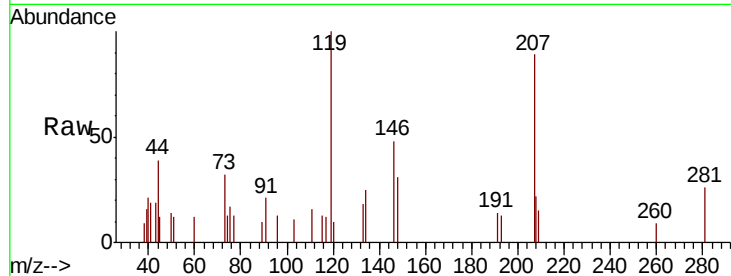
#86
p-Isopropyltoluene
Concen: 0.208 ug/l
RT: 13.29 min Scan# 3583
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:	119	Resp:	3101
Ion Ratio	Lower	Upper	
119	100		
134	24.1	12.7	38.1
91	18.9	11.9	35.5

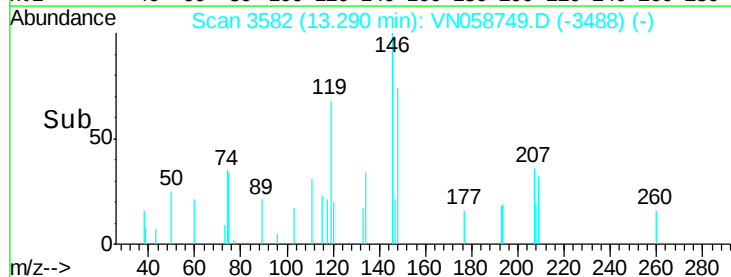
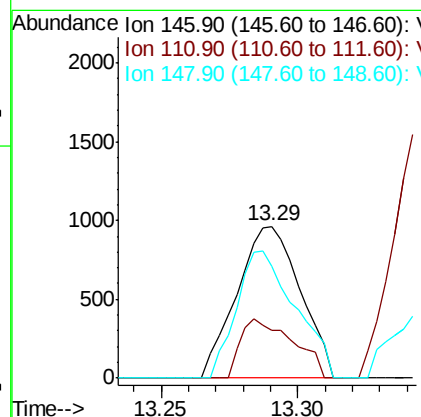
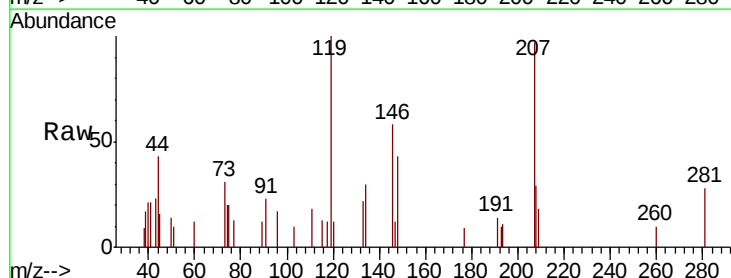
Manual Integrations
APPROVED

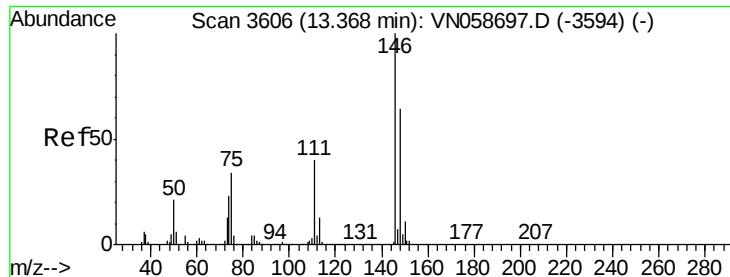
MMDadoda
10/16/2019 12:56:58 AM



#87
1,3-Dichlorobenzene
Concen: 0.204 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion:	146	Resp:	1553
Ion Ratio	Lower	Upper	
146	100		
111	32.5	20.5	61.6
148	77.6	31.3	93.9





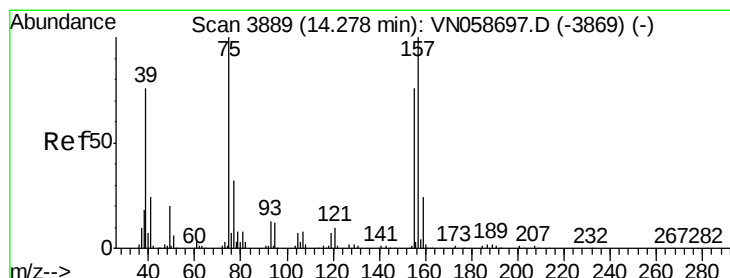
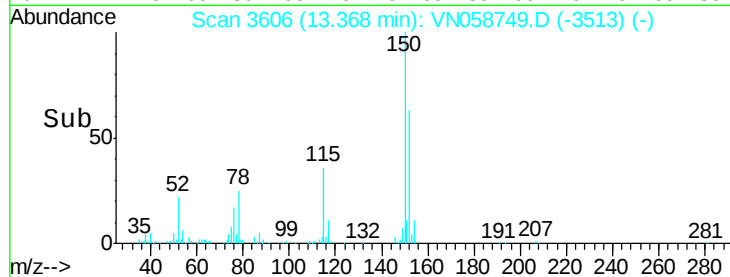
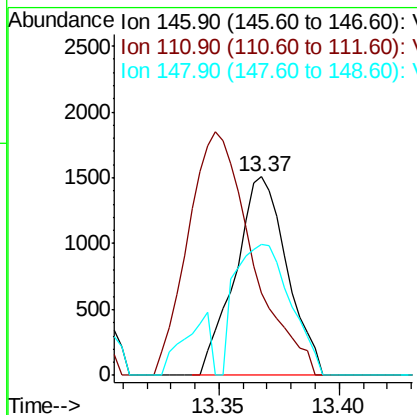
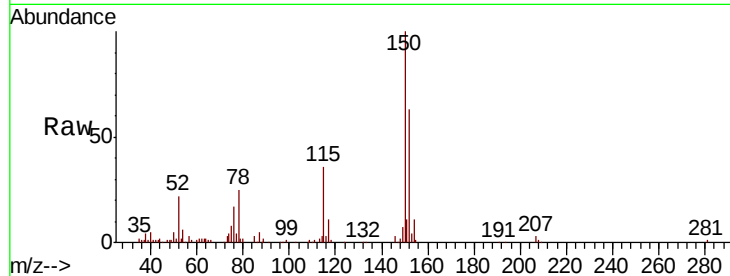
#88
 1,4-Dichlorobenzene
 Concen: 0.293 ug/l m
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	22.2	20.1	60.2
148	53.1	31.9	95.7

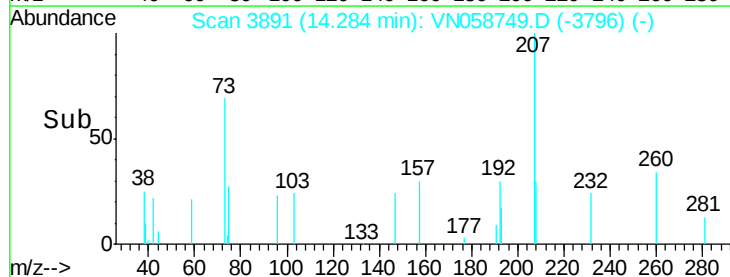
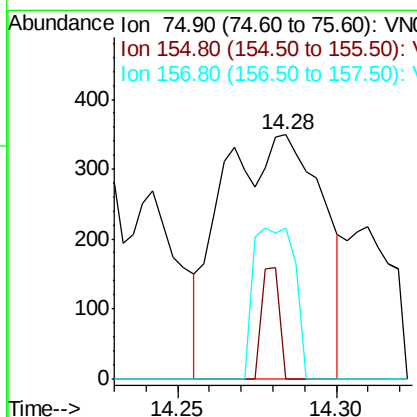
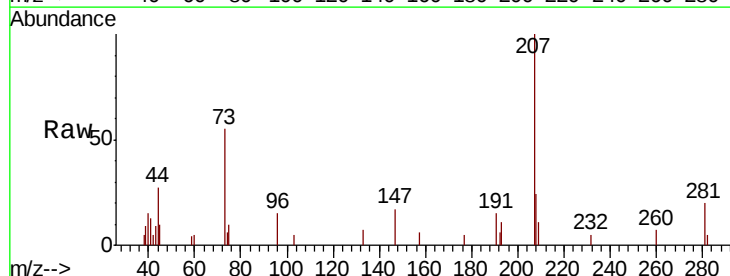
Manual Integrations
 APPROVED

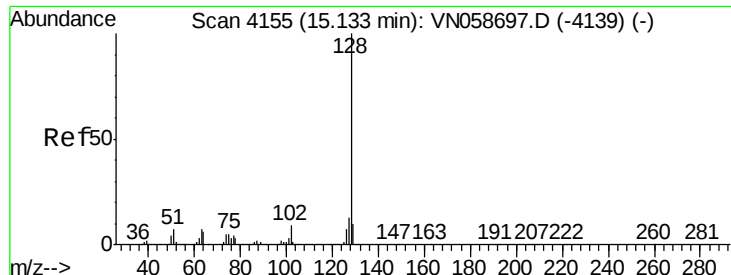
MMDadoda
 10/16/2019 12:56:58 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.586 ug/l m
 RT: 14.28 min Scan# 3891
 Delta R.T. 0.01 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	8.0	37.9	113.6#
157	25.3	49.4	148.2#





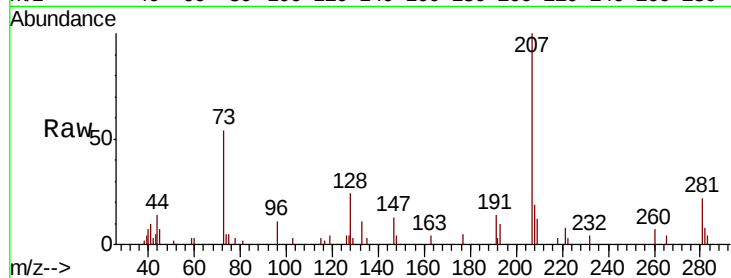
#95
Naphthalene
Concen: 0.208 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
128	100	2713		
127	6.1		10.2	15.4#
129	9.4		8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:56:58 AM



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

