

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058753.D
 Acq On : 14 Oct 2019 16:55
 Operator : JC/SP
 Sample : K5111-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:57:08 AM

Quant Time: Oct 15 03:58:50 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	378417	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	626040	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	571076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249491	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	289619	54.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.34%	
35) Dibromofluoromethane	7.57	113	205531	53.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.30%	
50) Toluene-d8	10.08	98	770336	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
62) 4-Bromofluorobenzene	12.41	95	269204	45.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.98%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.83	85	12621	2.678	ug/l	96
3) Chloromethane	2.04	50	16070	2.867	ug/l	95
4) Vinyl Chloride	2.17	62	15433	2.765	ug/l	95
5) Bromomethane	2.54	94	9965	2.935	ug/l	89
6) Chloroethane	2.68	64	9666	2.808	ug/l	93
7) Trichlorofluoromethane	3.00	101	19042	2.851	ug/l	98
8) Diethyl Ether	3.39	74	6240	2.528	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.74	101	9864m	2.590	ug/l	
10) Methyl Iodide	3.93	142	12086	2.325	ug/l	99
11) Tert butyl alcohol	4.76	59	12667	14.764	ug/l #	89
12) 1,1-Dichloroethene	3.72	96	10324	2.841	ug/l	92
13) Acrolein	3.59	56	7413	10.743	ug/l	94
14) Allyl chloride	4.30	41	18002	2.455	ug/l	93
15) Acrylonitrile	4.97	53	27545	12.731	ug/l	99
16) Acetone	3.80	43	26775	12.208	ug/l	99
17) Carbon Disulfide	4.03	76	31474	2.709	ug/l	99
18) Methyl Acetate	4.31	43	17495	3.145	ug/l	97
19) Methyl tert-butyl Ether	5.02	73	33565	2.587	ug/l	96
20) Methylene Chloride	4.53	84	13469	2.938	ug/l	90
21) trans-1,2-Dichloroethene	5.02	96	10642	2.618	ug/l	95
22) Diisopropyl ether	5.93	45	36364	2.550	ug/l #	91
23) Vinyl Acetate	5.88	43	139643	12.136	ug/l	99
24) 1,1-Dichloroethane	5.83	63	22116	2.723	ug/l	96
25) 2-Butanone	6.82	43	38418	12.119	ug/l	96
26) 2,2-Dichloropropane	6.80	77	18595	2.508	ug/l #	74
27) cis-1,2-Dichloroethene	6.81	96	12462	2.629	ug/l	99
28) Bromochloromethane	7.18	49	7312	2.588	ug/l #	98
29) Tetrahydrofuran	7.20	42	25877	12.631	ug/l	98
30) Chloroform	7.35	83	22787	2.793	ug/l	99
31) Cyclohexane	7.64	56	26907	3.463	ug/l #	61
32) 1,1,1-Trichloroethane	7.55	97	18399	2.644	ug/l	96
36) 1,1-Dichloropropene	7.77	75	16006	2.529	ug/l	96
37) Ethyl Acetate	6.92	43	12907	2.016	ug/l #	91
38) Carbon Tetrachloride	7.76	117	16950	2.748	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058753.D
 Acq On : 14 Oct 2019 16:55
 Operator : JC/SP
 Sample : K5111-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:57:08 AM

Quant Time: Oct 15 03:58:50 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)

39) Methylcyclohexane	9.07	83	17121	2.331	ug/l	97
40) Benzene	8.02	78	47344	2.604	ug/l	100
41) Methacrylonitrile	7.17	41	7822m	2.610	ug/l	
42) 1,2-Dichloroethane	8.11	62	18908	2.707	ug/l	99
43) Isopropyl Acetate	8.15	43	28939	2.654	ug/l	97
44) Trichloroethene	8.82	130	12117	2.684	ug/l	99
45) 1,2-Dichloropropane	9.10	63	12926	2.656	ug/l	99
46) Dibromomethane	9.20	93	8766	2.841	ug/l	95
47) Bromodichloromethane	9.40	83	17182	2.735	ug/l	99
48) Methyl methacrylate	9.19	41	12028	2.433	ug/l	96
49) 1,4-Dioxane	9.19	88	4572	59.785	ug/l #	88
51) 4-Methyl-2-Pentanone	9.98	43	78371	12.796	ug/l	96
52) Toluene	10.15	92	29073	2.615	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	17309	2.402	ug/l	89
54) cis-1,3-Dichloropropene	9.83	75	18457	2.412	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	11505	2.528	ug/l	97
56) Ethyl methacrylate	10.43	69	14287	2.149	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	20061	2.587	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	32899	10.268	ug/l	97
59) 2-Hexanone	10.75	43	54840	11.587	ug/l	98
60) Dibromochloromethane	10.90	129	11087	2.362	ug/l	96
61) 1,2-Dibromoethane	11.00	107	10989	2.410	ug/l	96
64) Tetrachloroethene	10.63	164	10625	2.659	ug/l	98
65) Chlorobenzene	11.43	112	30156	2.600	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.51	131	10401	2.425	ug/l	87
67) Ethyl Benzene	11.51	91	51395	2.486	ug/l	98
68) m/p-Xylenes	11.62	106	36471	4.701	ug/l	99
69) o-Xylene	11.95	106	17986	2.396	ug/l	97
70) Styrene	11.97	104	25613	2.082	ug/l	91
71) Bromoform	12.13	173	7511	2.389	ug/l #	97
73) Isopropylbenzene	12.25	105	46220	2.558	ug/l	97
74) N-amyl acetate	12.07	43	18562	2.287	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	17420	2.927	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	15751m	2.878	ug/l	
77) Bromobenzene	12.53	156	11753	2.674	ug/l	98
78) n-propylbenzene	12.60	91	57082	2.711	ug/l	97
79) 2-Chlorotoluene	12.68	91	34836	2.666	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	37639	2.440	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	5037	2.465	ug/l	94
82) 4-Chlorotoluene	12.78	91	33444	2.494	ug/l	98
83) tert-Butylbenzene	13.00	119	33187	2.511	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	36602	2.390	ug/l	98
85) sec-Butylbenzene	13.18	105	43168	2.479	ug/l	100
86) p-Isopropyltoluene	13.29	119	35458	2.240	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	20047	2.473	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	20864	2.532	ug/l	86
89) n-Butylbenzene	13.62	91	33220	2.270	ug/l	98
90) Hexachloroethane	13.88	117	7643	2.699	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	20177	2.554	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4066	2.924	ug/l	80

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
Data File : VN058753.D
Acq On : 14 Oct 2019 16:55
Operator : JC/SP
Sample : K5111-07 2.5PPB LOD
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

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

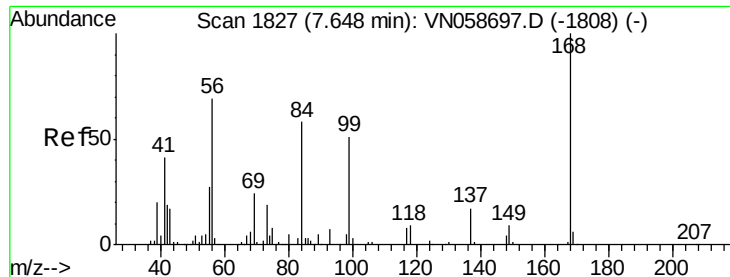
Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM

Quant Time: Oct 15 03:58:50 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)
93) 1,2,4-Trichlorobenzene	14.92	180	10705	2.221	ug/l	97
94) Hexachlorobutadiene	15.01	225	6316	2.489	ug/l	97
95) Naphthalene	15.13	128	26733	1.930	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	9802	2.083	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 378417

Ion Ratio Lower Upper

168 100

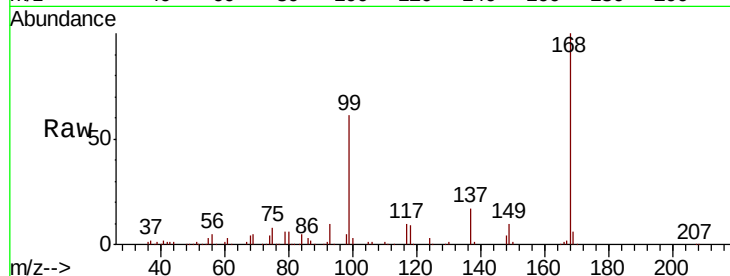
99 61.0 47.5 71.3

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

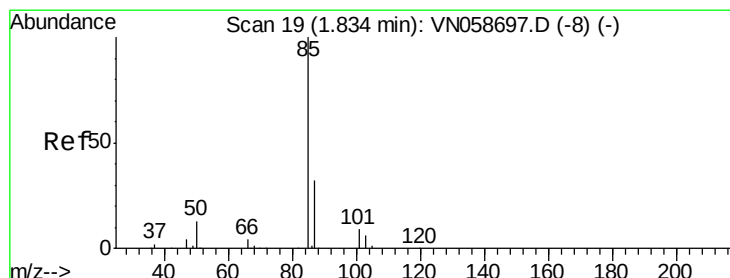
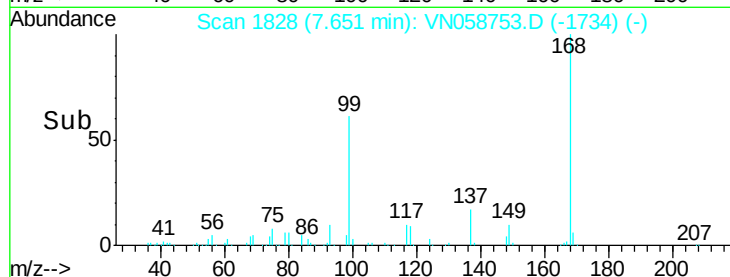
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 2.678 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058753.D

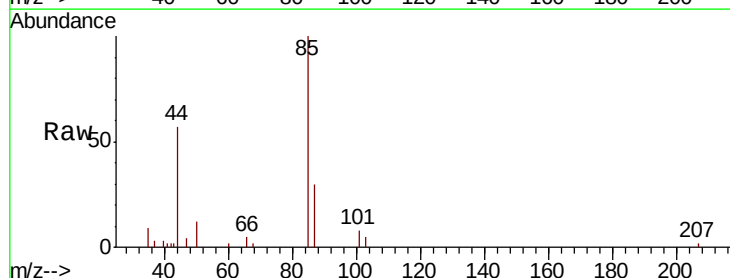
Acq: 14 Oct 2019 16:55

Tgt Ion: 85 Resp: 12621

Ion Ratio Lower Upper

85 100

87 30.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

10000

8000

6000

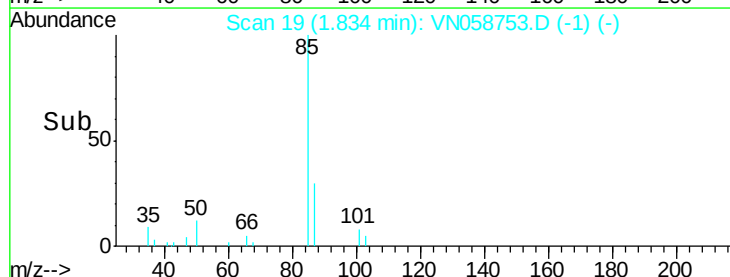
4000

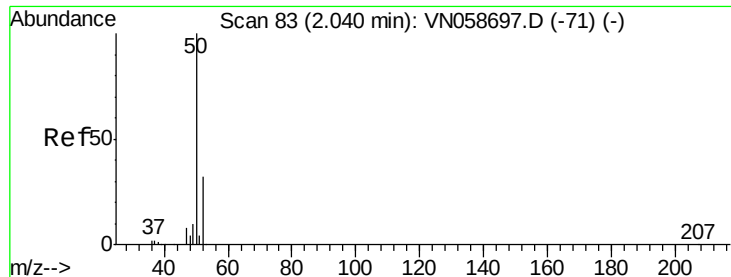
2000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 2.867 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 16070

Ion Ratio Lower Upper

50 100

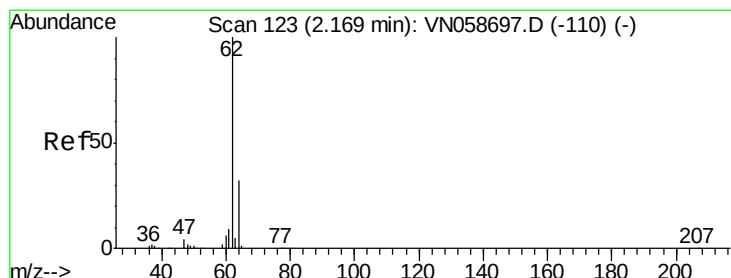
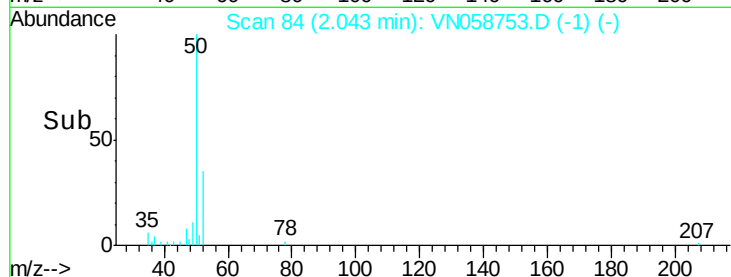
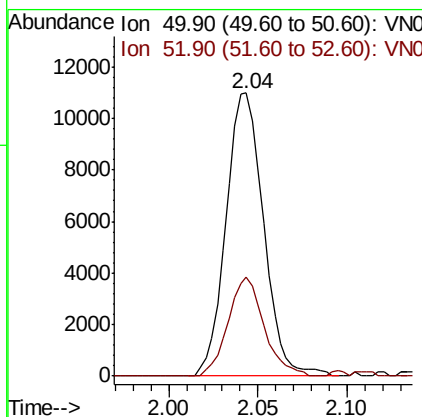
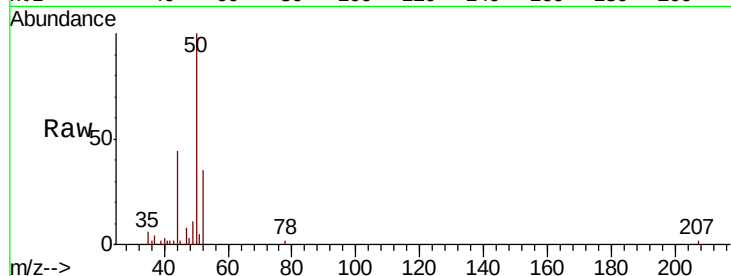
52 34.8 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#4

Vinyl Chloride

Concen: 2.765 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058753.D

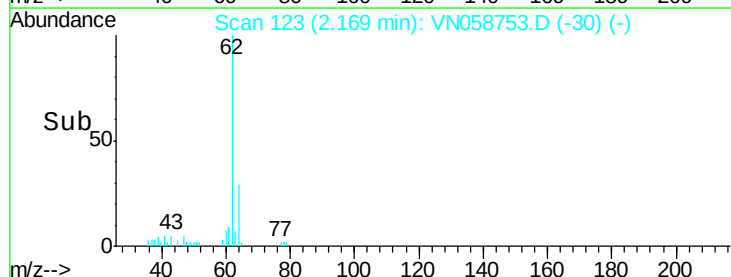
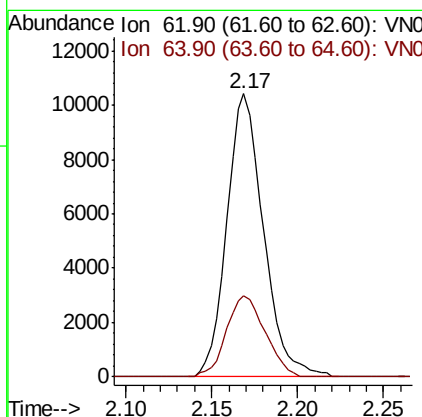
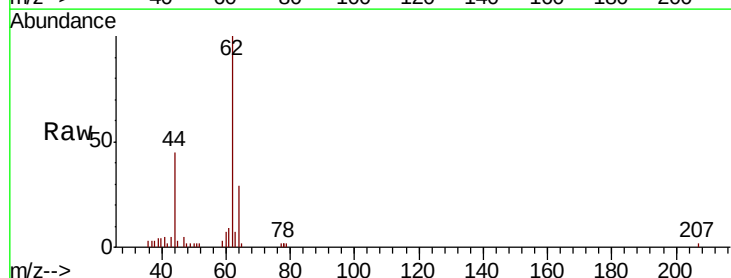
Acq: 14 Oct 2019 16:55

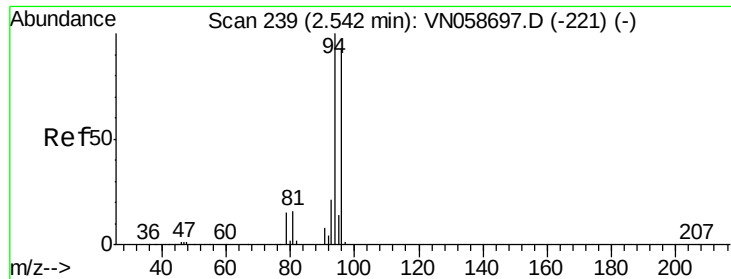
Tgt Ion: 62 Resp: 15433

Ion Ratio Lower Upper

62 100

64 28.8 25.3 37.9





#5

Bromomethane

Concen: 2.935 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 94 Resp: 9965

Ion Ratio Lower Upper

94 100

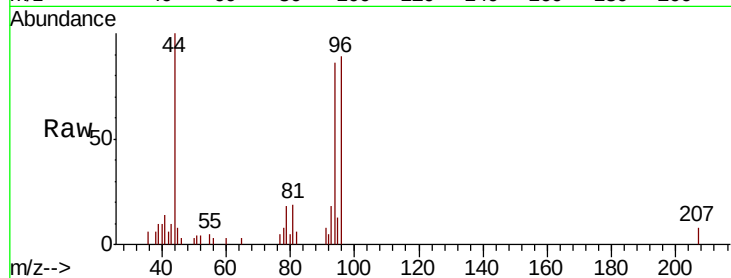
96 103.7 74.5 111.7

Manual Integrations

APPROVED

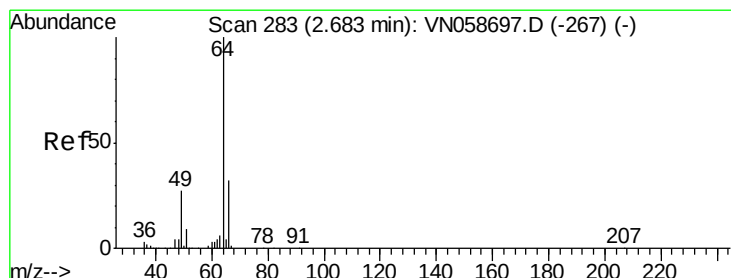
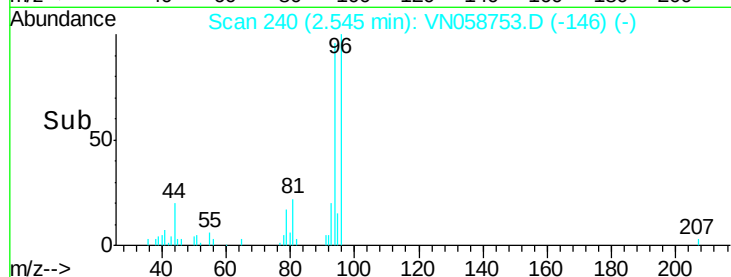
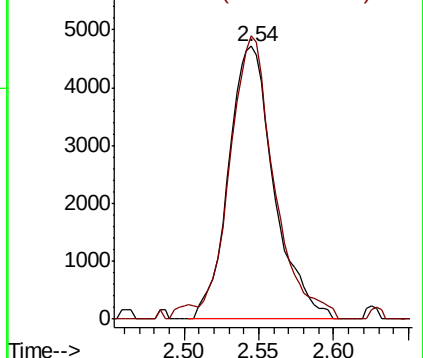
MMDadoda

10/16/2019 12:57:08 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.808 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN058753.D

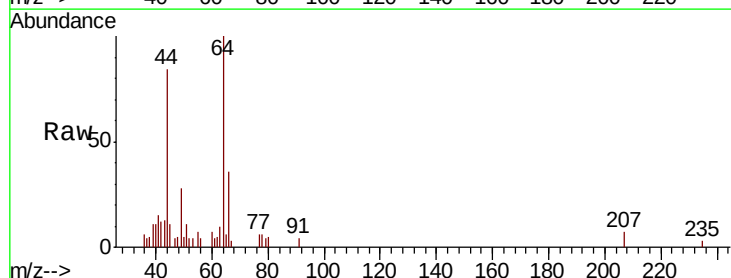
Acq: 14 Oct 2019 16:55

Tgt Ion: 64 Resp: 9666

Ion Ratio Lower Upper

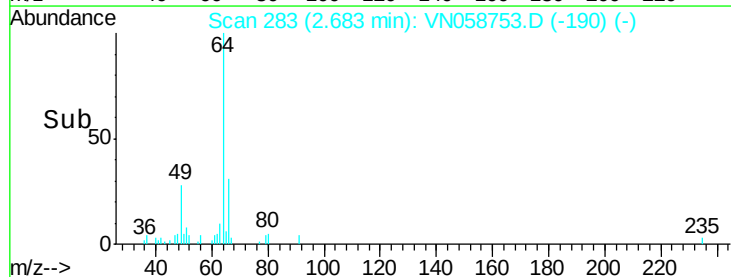
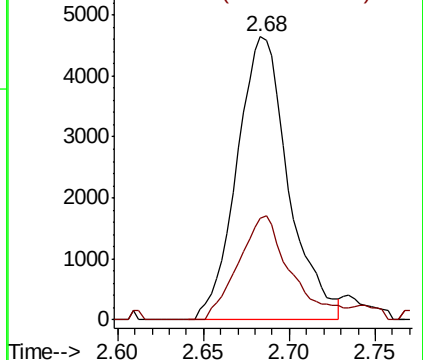
64 100

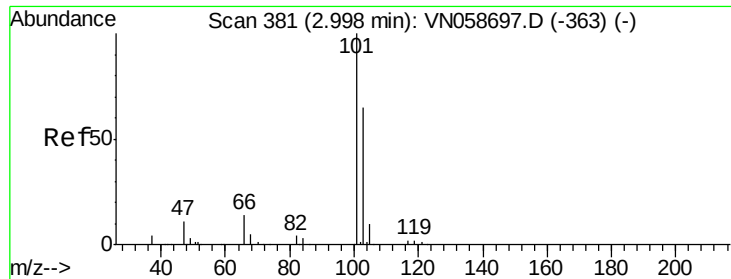
66 35.8 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

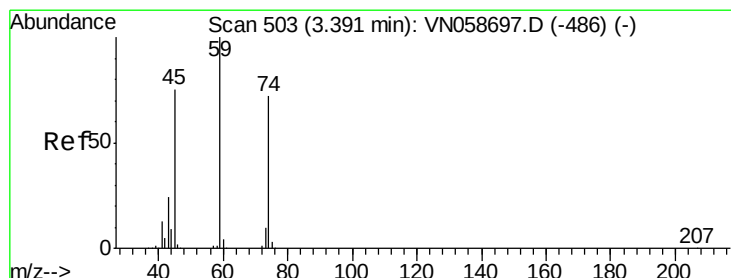
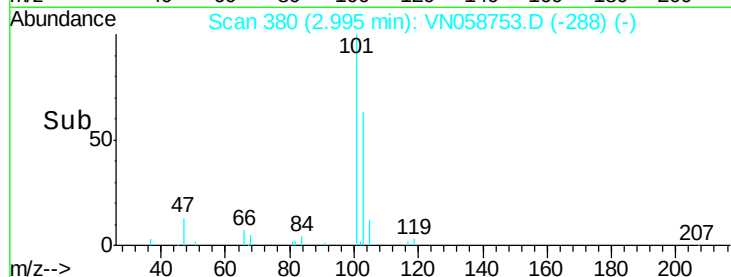
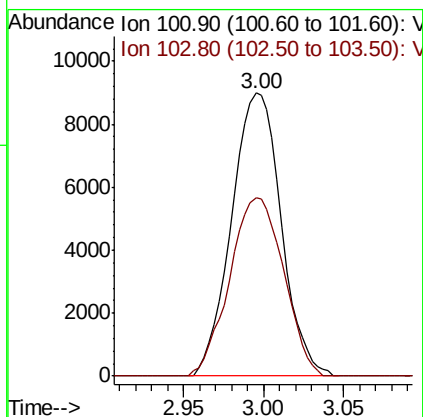
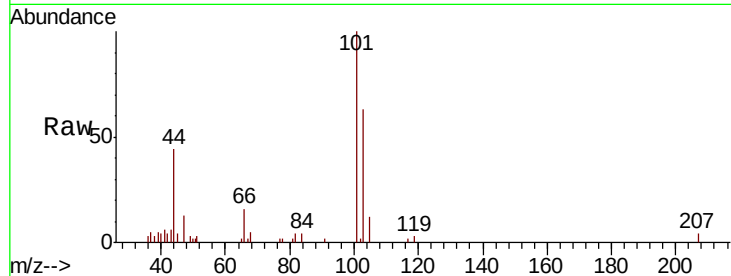
Trichlorofluoromethane
Concen: 2.851 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion:101 Resp: 19042
Ion Ratio Lower Upper
101 100
103 63.3 51.8 77.6

Manual Integrations
APPROVED

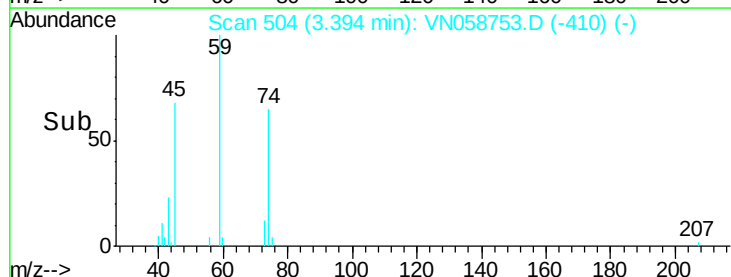
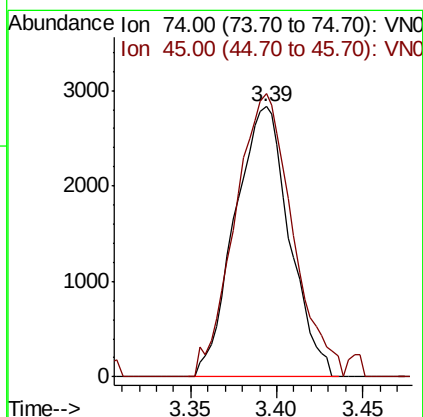
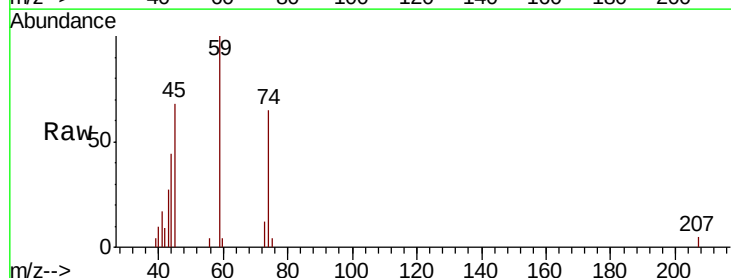
MMDadoda
10/16/2019 12:57:08 AM

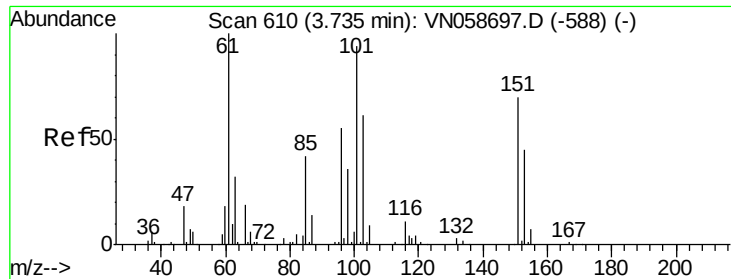


#8

Diethyl Ether
Concen: 2.528 ug/l
RT: 3.39 min Scan# 504
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 74 Resp: 6240
Ion Ratio Lower Upper
74 100
45 110.3 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.590 ug/l m

RT: 3.74 min Scan# 613

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

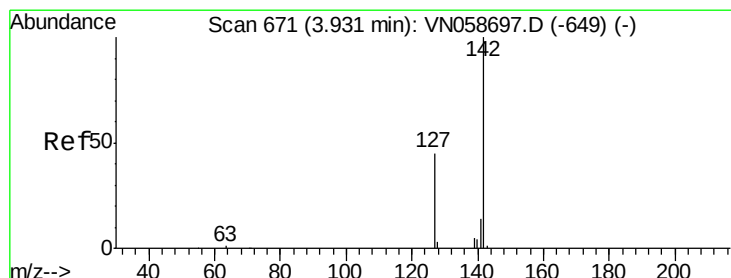
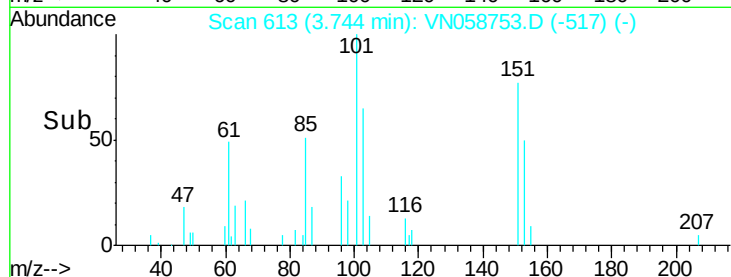
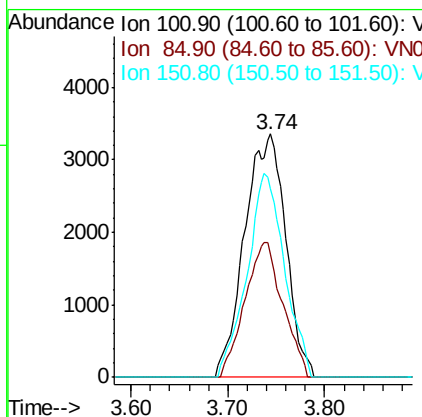
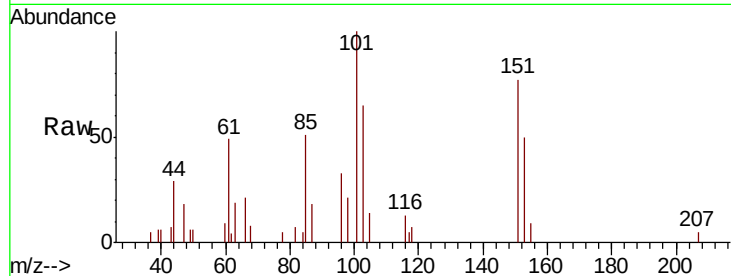
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	101	Resp:	9864
Ion Ratio	Lower	Upper	
101	100		
85	51.4	37.0	55.6
151	76.8	61.8	92.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#10

Methyl Iodide

Concen: 2.325 ug/l

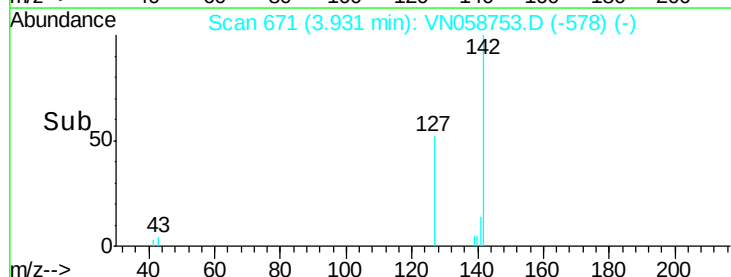
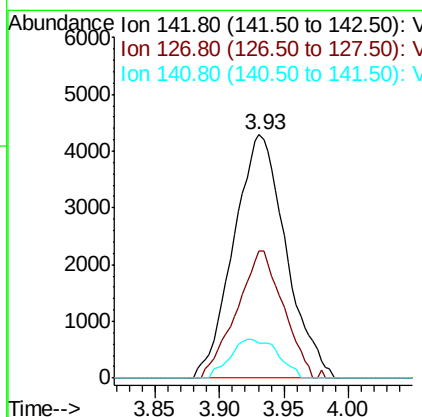
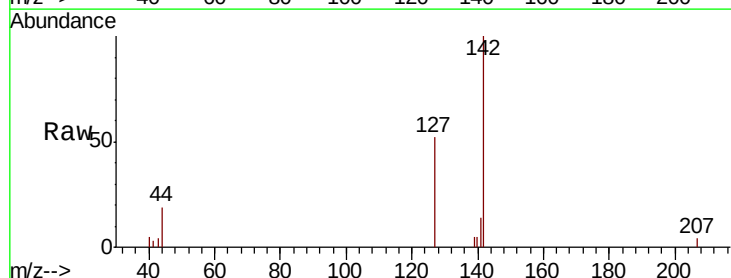
RT: 3.93 min Scan# 671

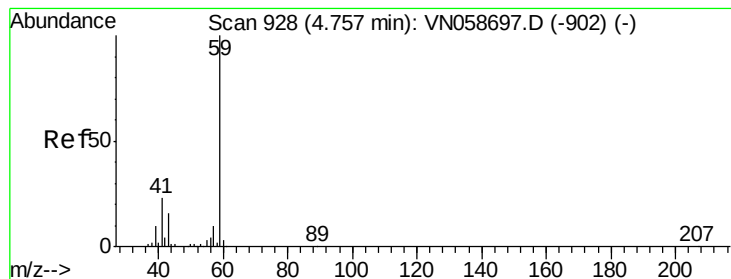
Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	142	Resp:	12086
Ion Ratio	Lower	Upper	
142	100		
127	46.4	36.4	54.6
141	14.6	11.1	16.7





#11

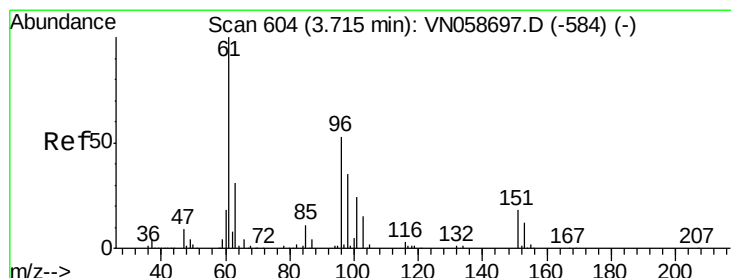
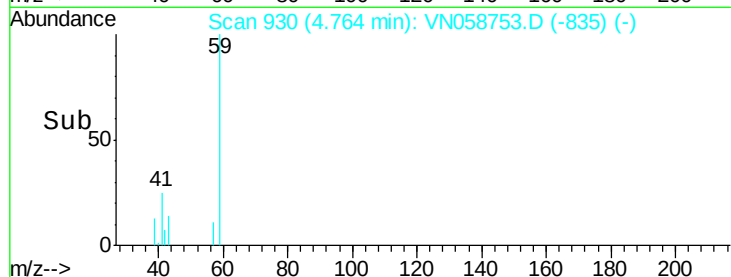
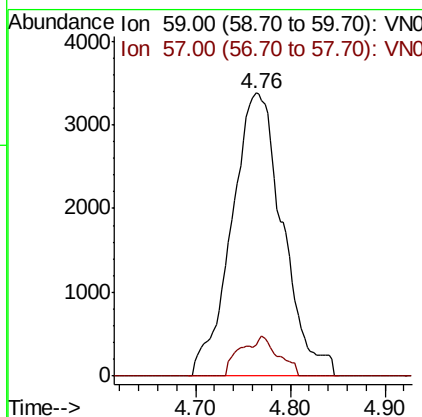
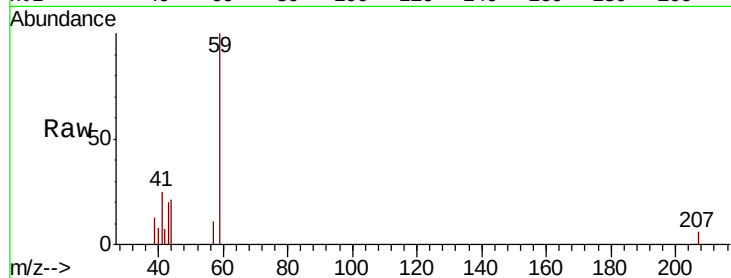
Tert butyl alcohol
 Concen: 14.764 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	59	Resp	12667
Ion Ratio	100	Lower	Upper
57	6.3	8.4	12.6#

Manual Integrations
 APPROVED

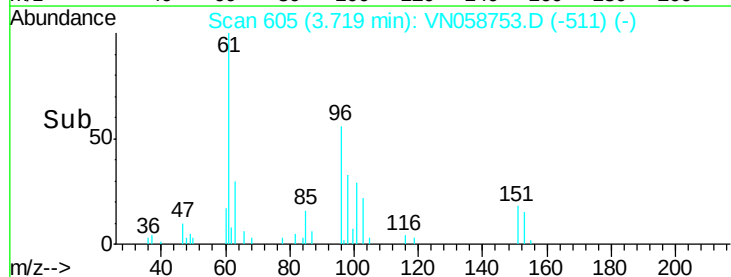
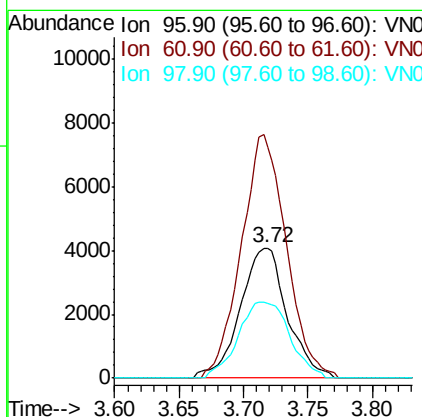
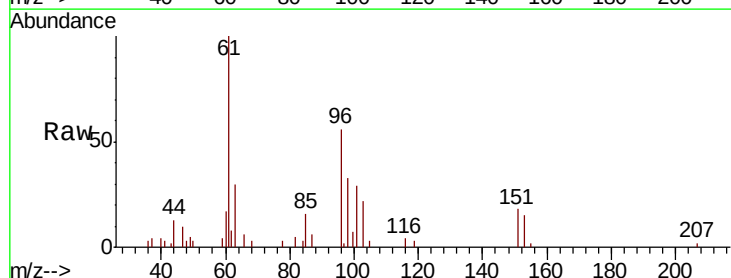
MMDadoda
 10/16/2019 12:57:08 AM

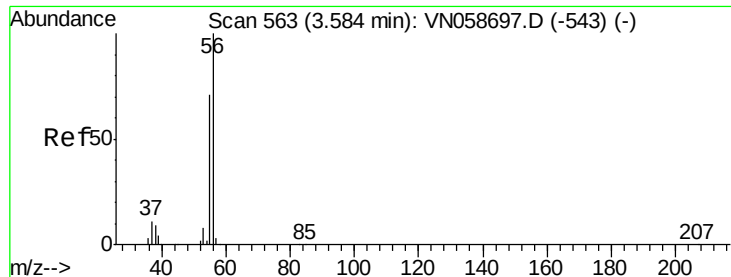


#12

1,1-Dichloroethene
 Concen: 2.841 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	96	Resp	10324
Ion Ratio	100	Lower	Upper
61	177.6	151.3	226.9
98	57.8	52.6	78.8





#13

Acrolein

Concen: 10.743 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 7413

Ion Ratio Lower Upper

56 100

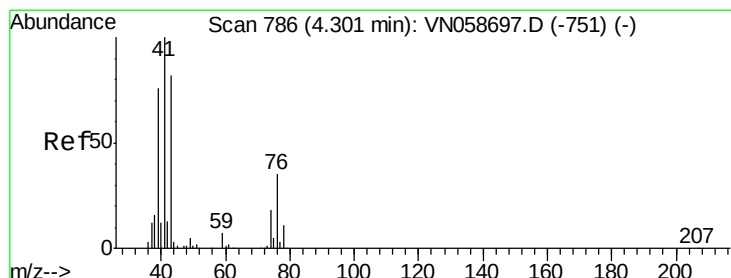
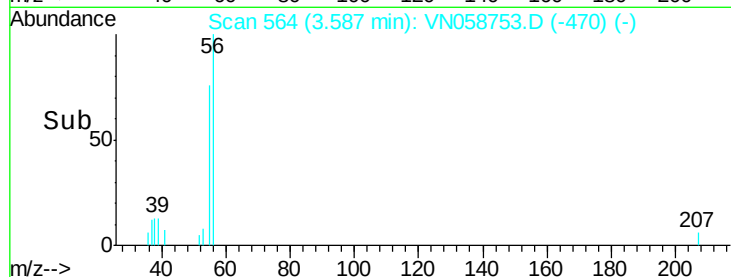
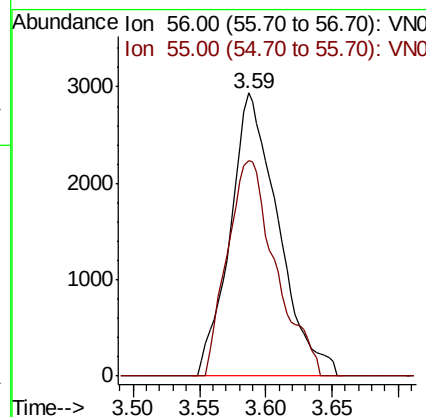
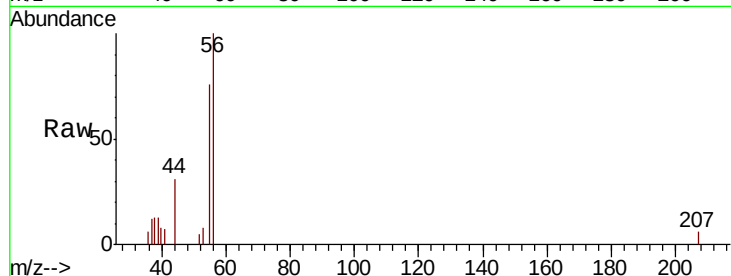
55 76.2 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#14

Allyl chloride

Concen: 2.455 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

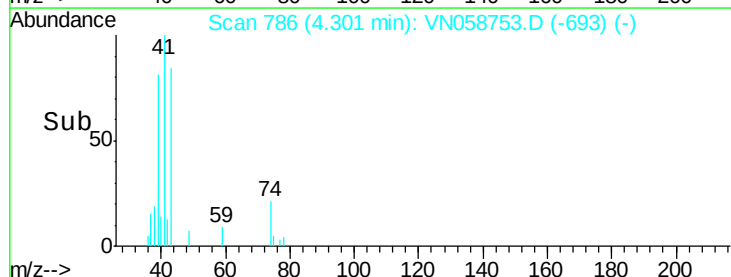
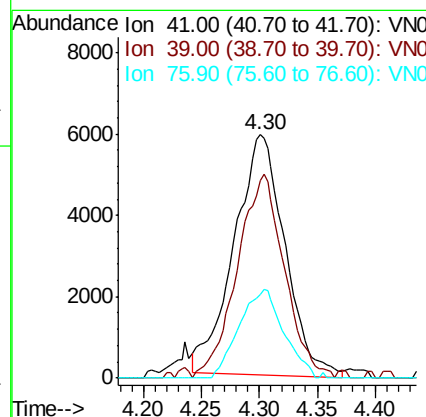
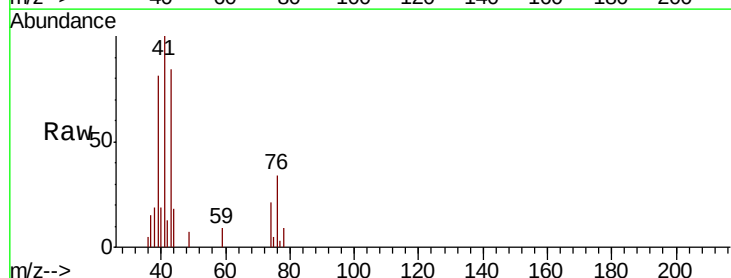
Tgt Ion: 41 Resp: 18002

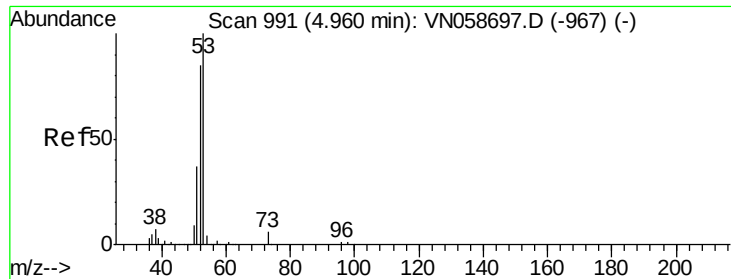
Ion Ratio Lower Upper

41 100

39 78.8 57.2 85.8

76 32.4 25.0 37.6





#15

Acrylonitrile

Concen: 12.731 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

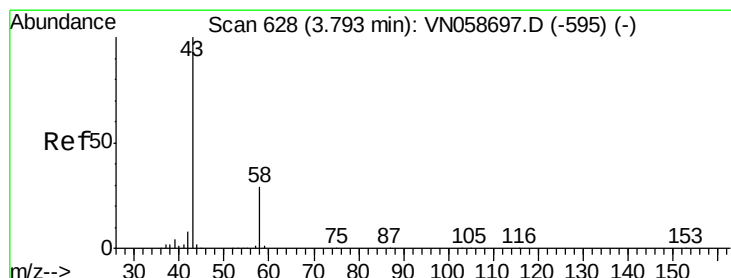
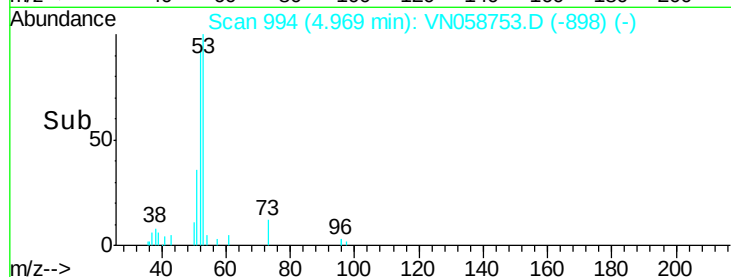
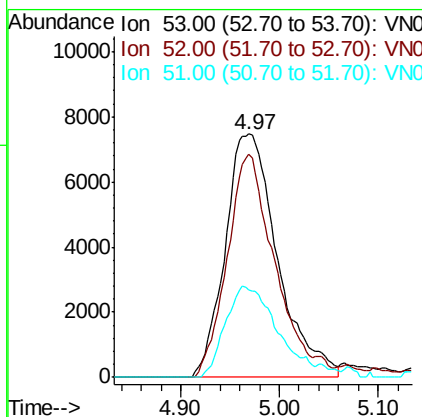
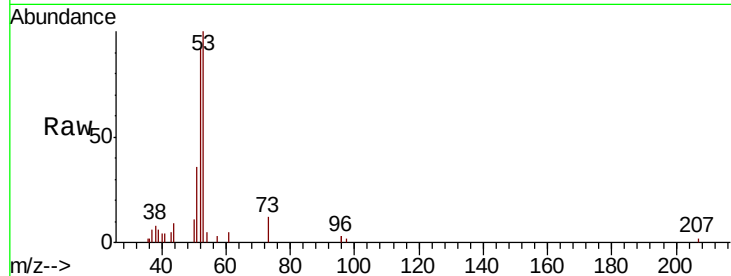
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	53	Resp:	27545
Ion	Ratio	Lower	Upper
53	100		
52	84.1	66.2	99.2
51	36.9	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#16

Acetone

Concen: 12.208 ug/l

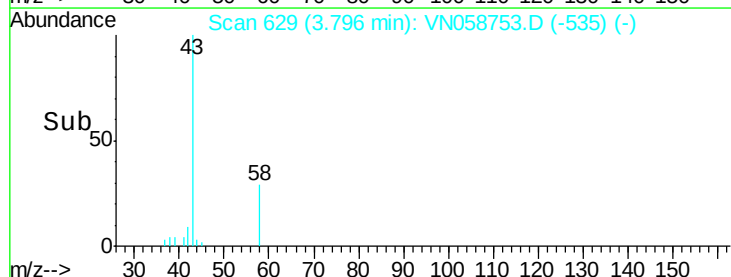
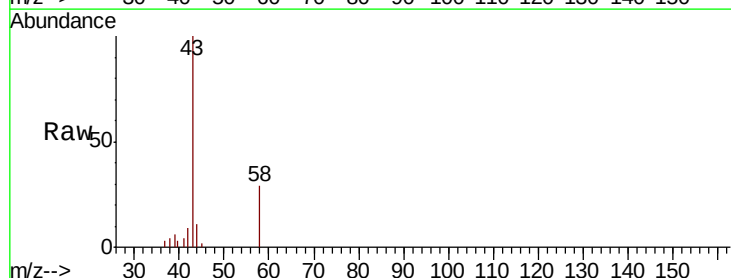
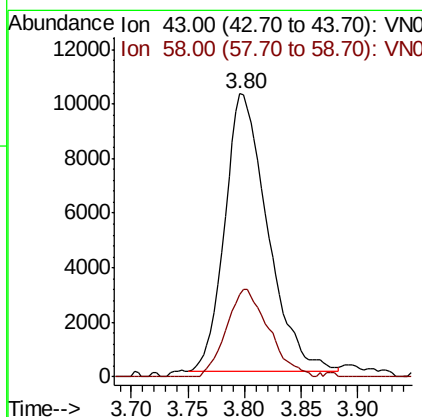
RT: 3.80 min Scan# 629

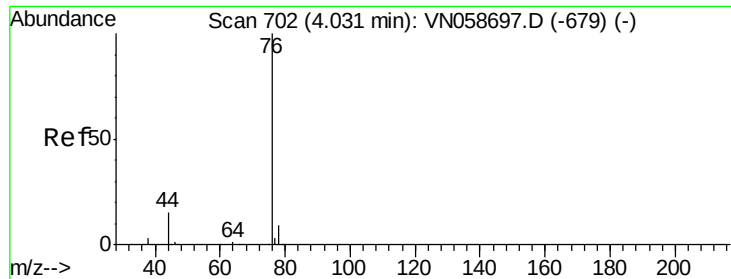
Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	43	Resp:	26775
Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.3	34.9





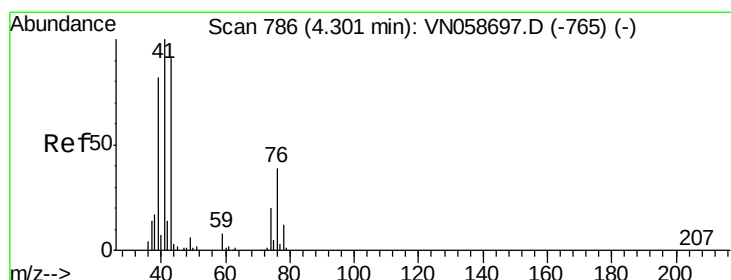
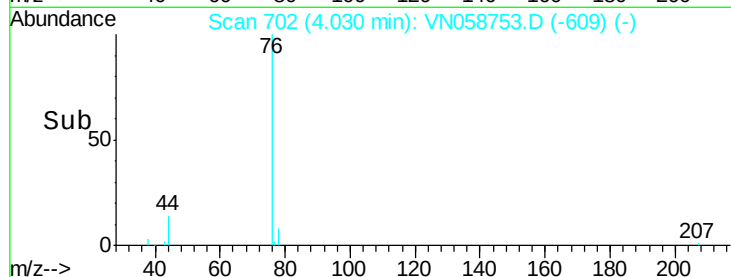
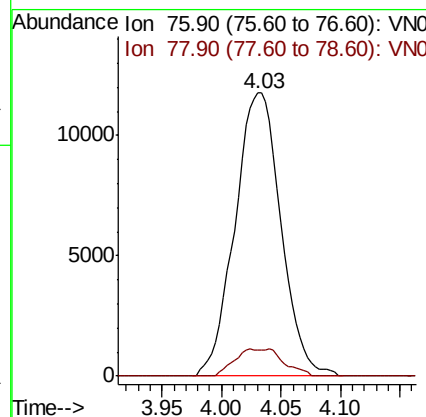
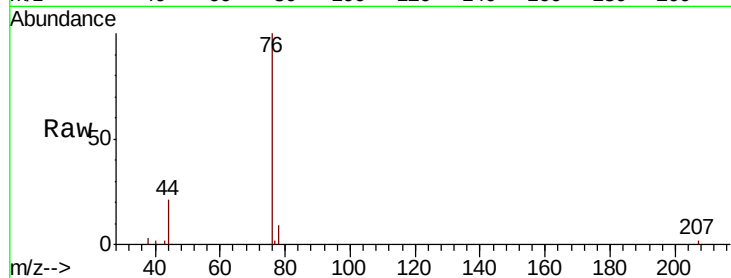
#17
Carbon Disulfide
Concen: 2.709 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion: 76 Resp: 31474
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7

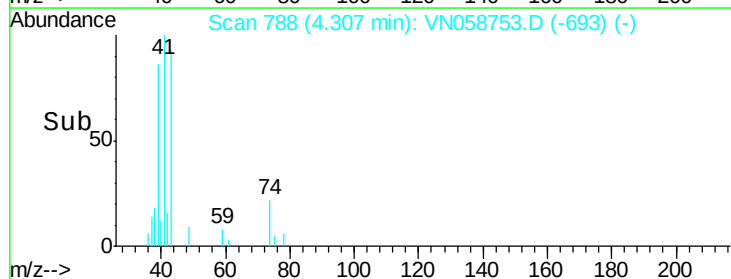
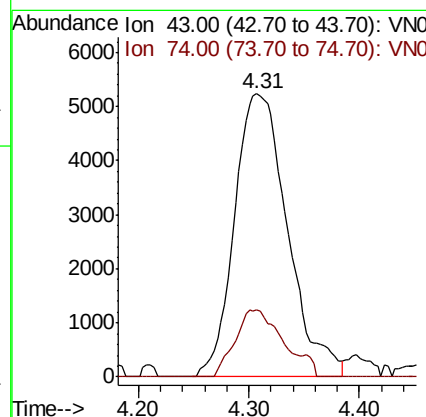
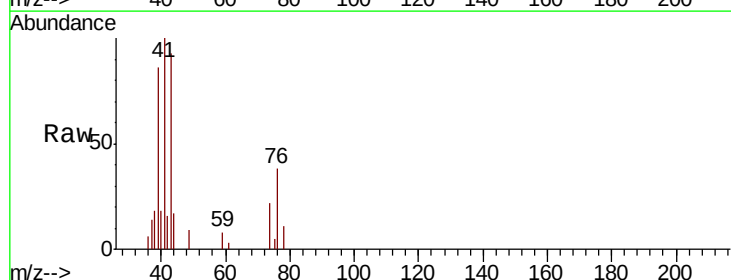
Manual Integrations
APPROVED

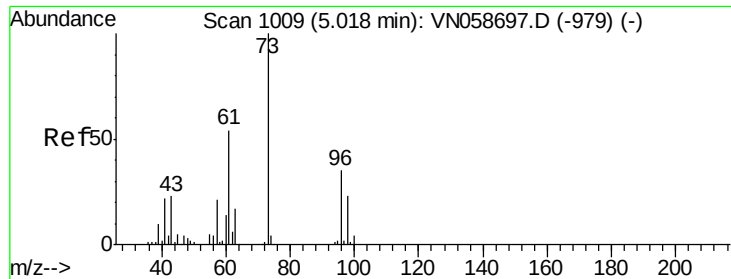
MMDadoda
10/16/2019 12:57:08 AM



#18
Methyl Acetate
Concen: 3.145 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 43 Resp: 17495
Ion Ratio Lower Upper
43 100
74 20.1 17.2 25.8





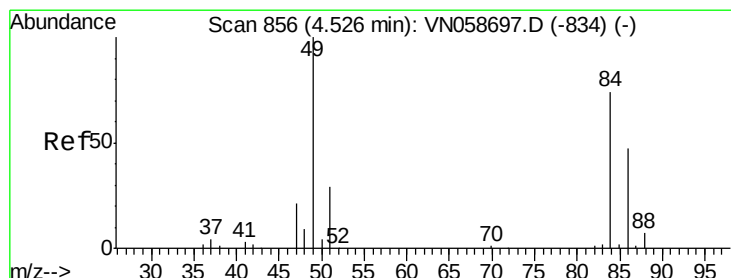
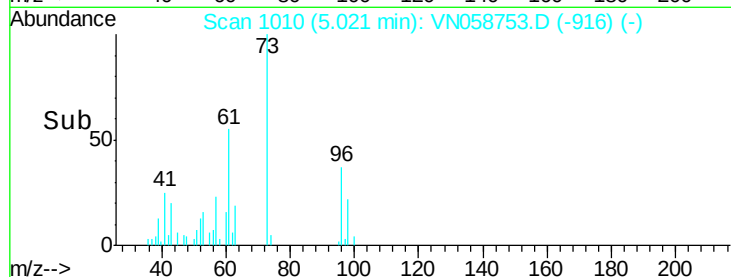
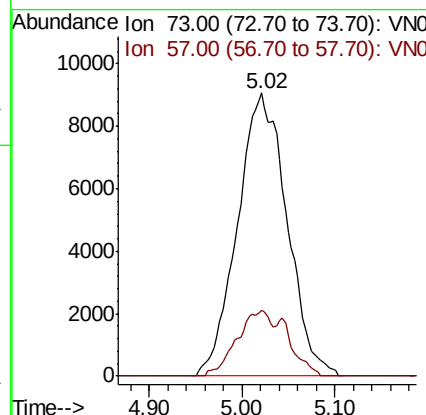
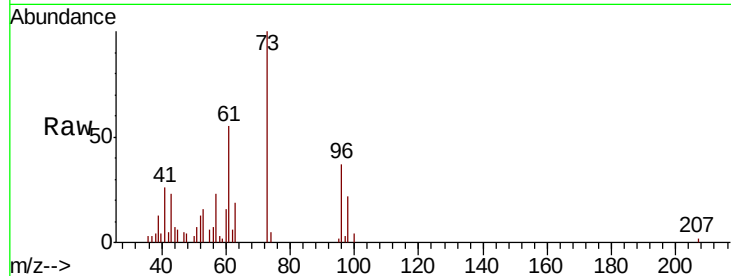
#19
Methyl tert-butyl Ether
Concen: 2.587 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion: 73 Resp: 33565
Ion Ratio Lower Upper
73 100
57 23.3 17.0 25.6

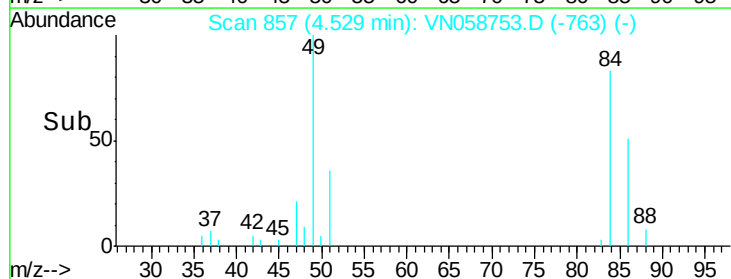
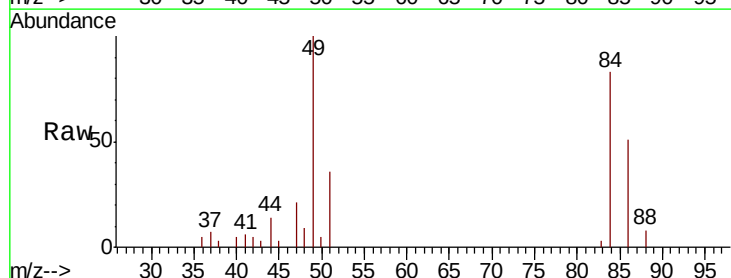
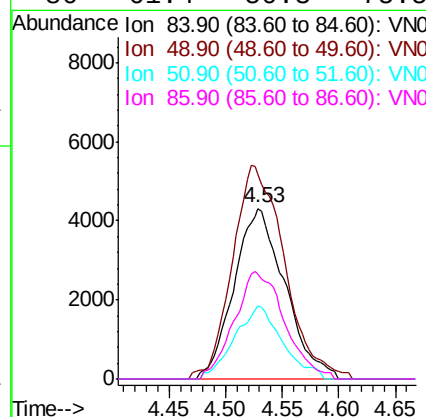
Manual Integrations
APPROVED

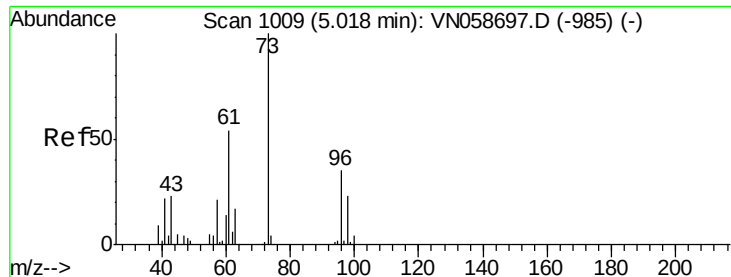
MMDadoda
10/16/2019 12:57:08 AM



#20
Methylene Chloride
Concen: 2.938 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 84 Resp: 13469
Ion Ratio Lower Upper
84 100
49 116.4 107.6 161.4
51 42.6 31.4 47.0
86 61.4 50.3 75.5





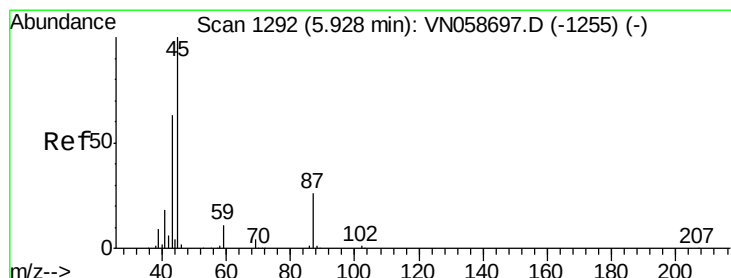
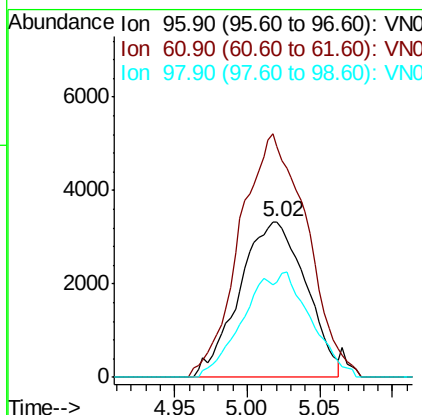
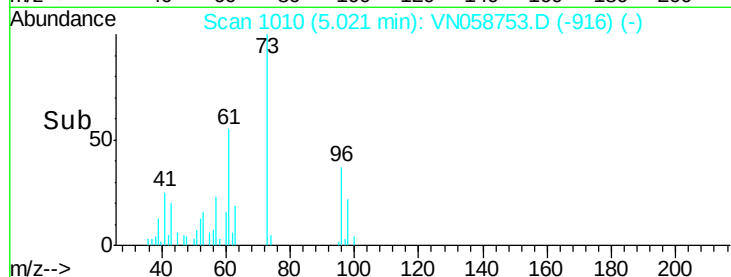
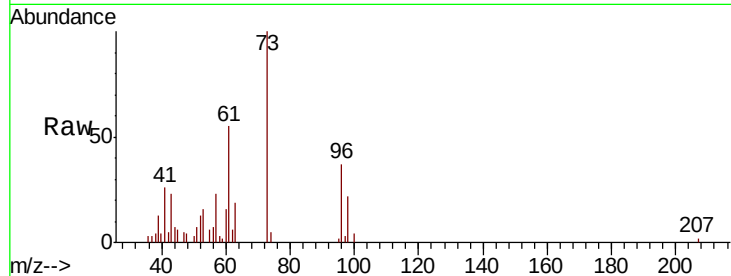
#21
trans-1,2-Dichloroethene
Concen: 2.618 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.7	123.6	185.4
98	61.2	52.1	78.1

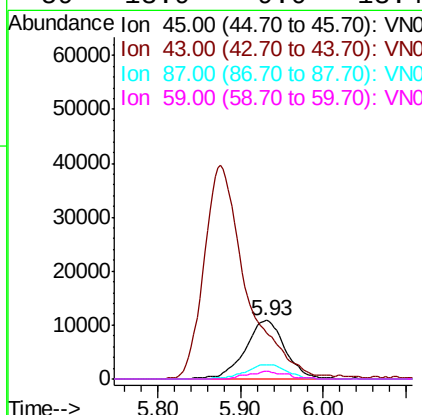
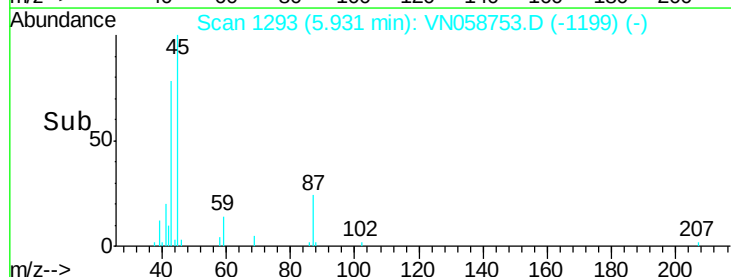
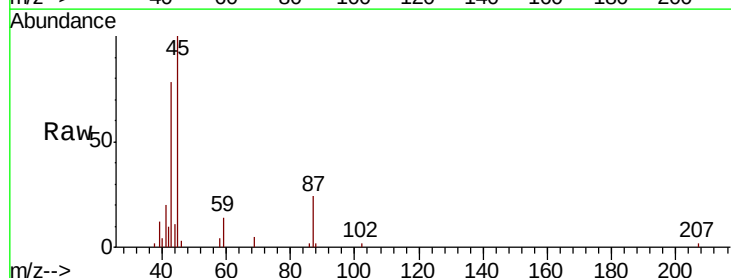
Manual Integrations
APPROVED

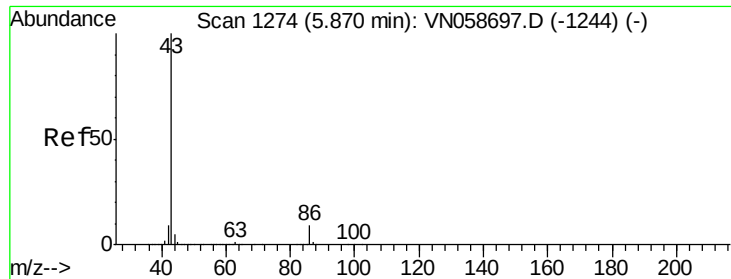
MMDadoda
10/16/2019 12:57:08 AM



#22
Diisopropyl ether
Concen: 2.550 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
45	100		
43	72.1	50.6	75.8
87	24.0	21.1	31.7
59	13.9	9.0	13.4#





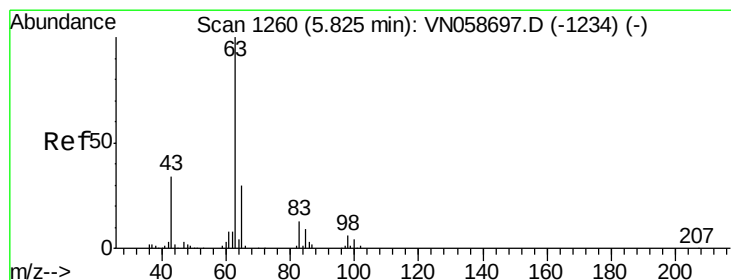
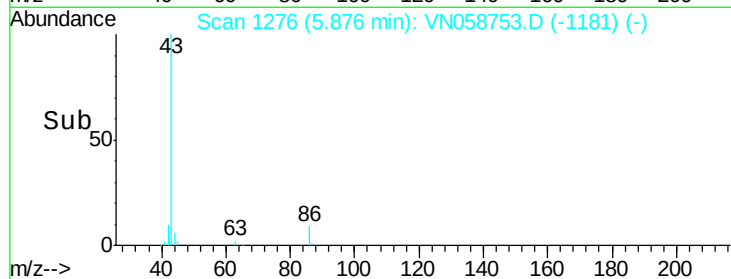
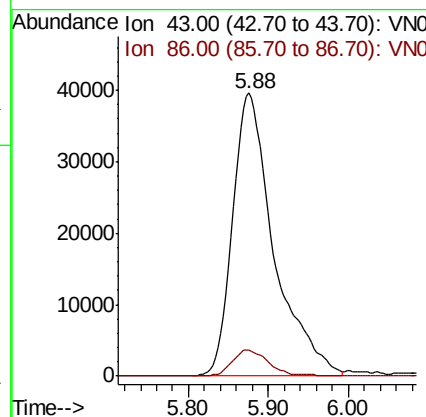
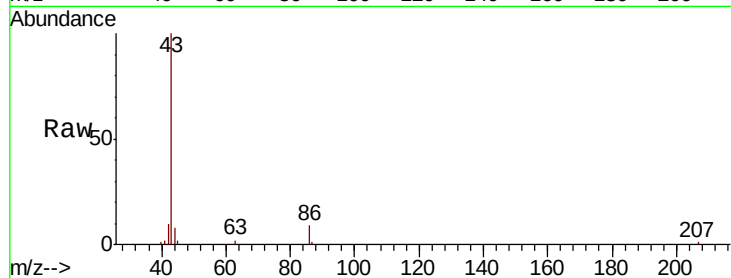
#23
 Vinyl Acetate
 Concen: 12.136 ug/l
 RT: 5.88 min Scan# 1276
 Delta R.T. 0.01 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	43	Resp	139643
Ion Ratio	100	Lower	Upper
43	100		
86	9.0	7.4	11.0

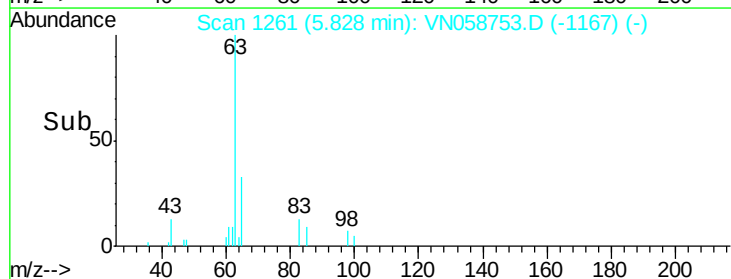
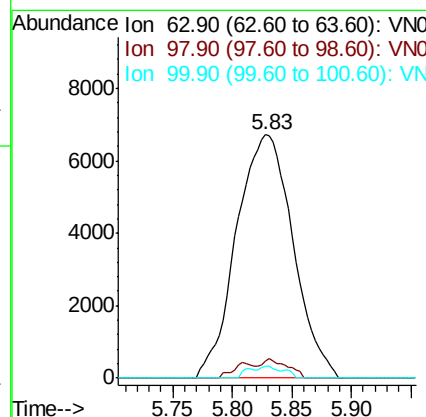
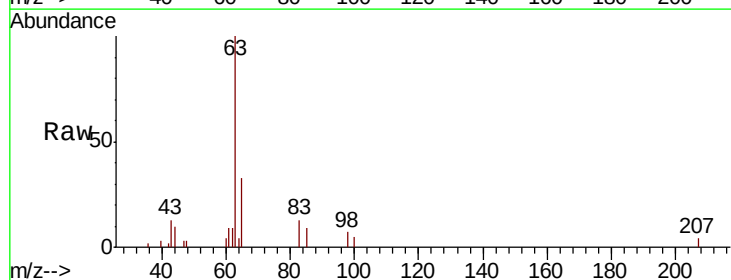
Manual Integrations
 APPROVED

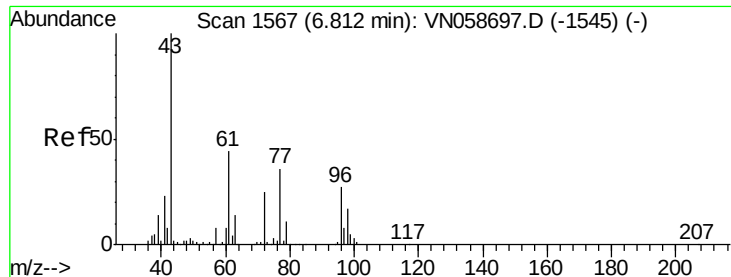
MMDadoda
 10/16/2019 12:57:08 AM



#24
 1,1-Dichloroethane
 Concen: 2.723 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	63	Resp	22116
Ion Ratio	100	Lower	Upper
63	100		
98	7.2	2.9	8.6
100	4.9	1.8	5.5





#25

2-Butanone

Concen: 12.119 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 38418

Ion Ratio Lower Upper

43 100

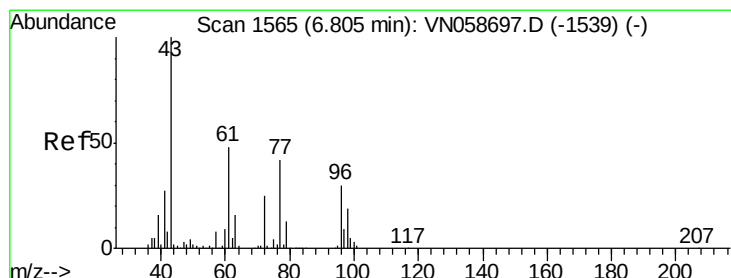
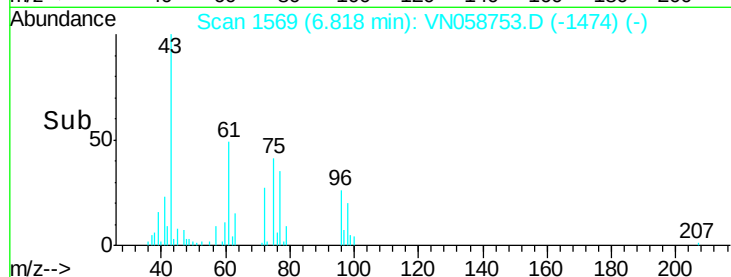
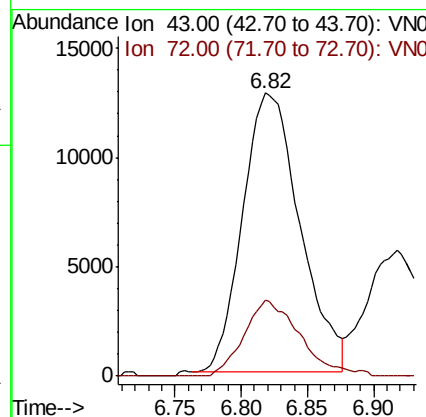
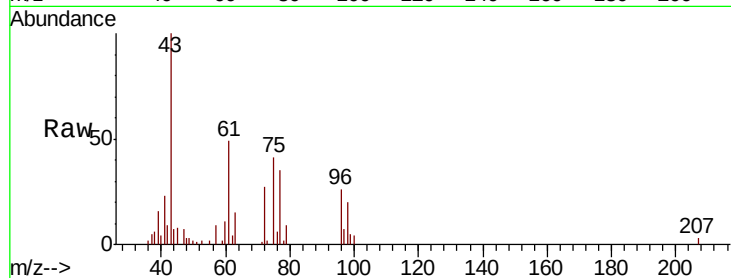
72 27.3 20.2 30.2

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#26

2,2-Dichloropropane

Concen: 2.508 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058753.D

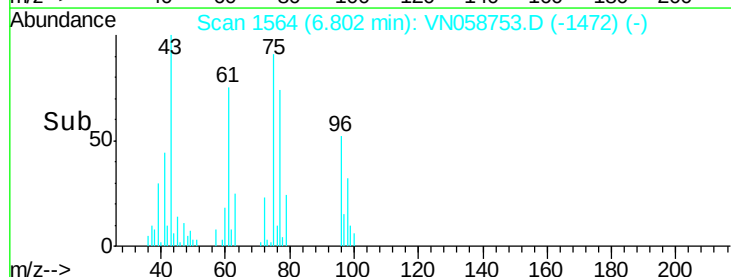
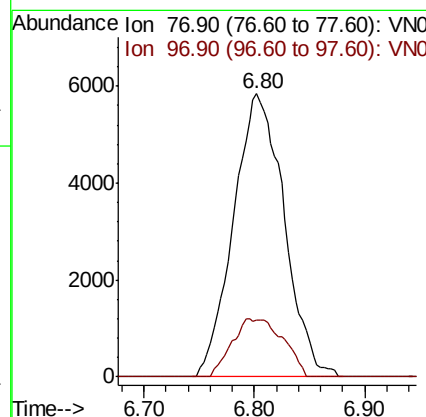
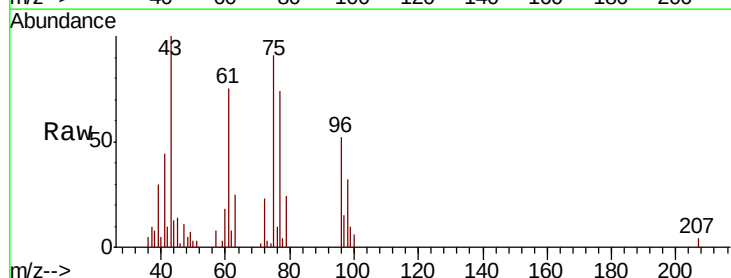
Acq: 14 Oct 2019 16:55

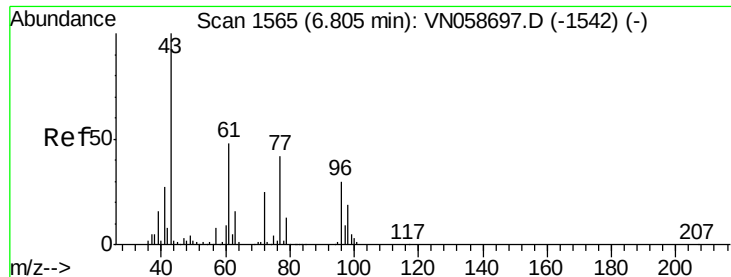
Tgt Ion: 77 Resp: 18595

Ion Ratio Lower Upper

77 100

97 9.1 10.7 31.9#





#27

cis-1,2-Dichloroethene

Concen: 2.629 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

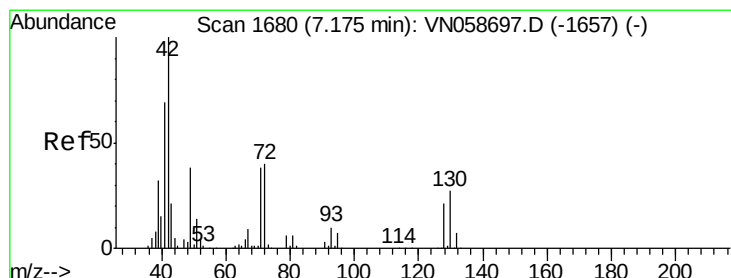
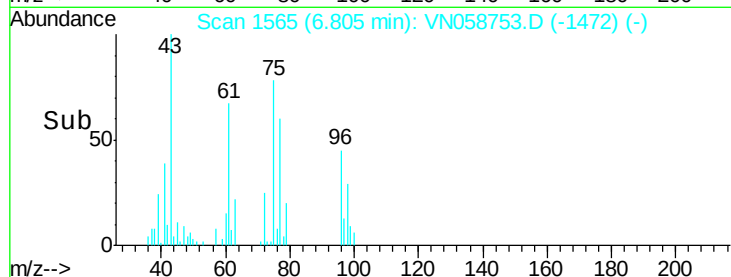
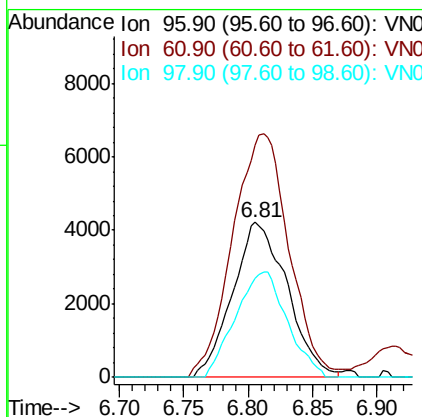
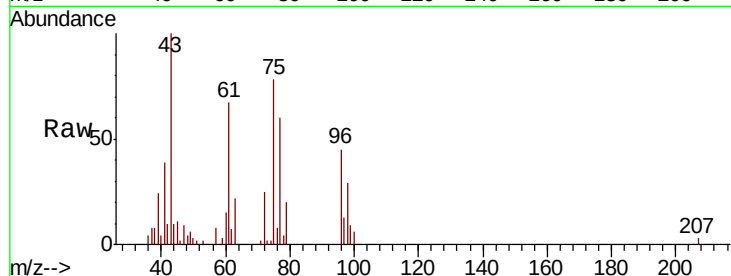
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	96	Resp:	12462
Ion	Ratio	Lower	Upper
96	100		
61	161.4	0.0	324.8
98	64.1	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#28

Bromochloromethane

Concen: 2.588 ug/l

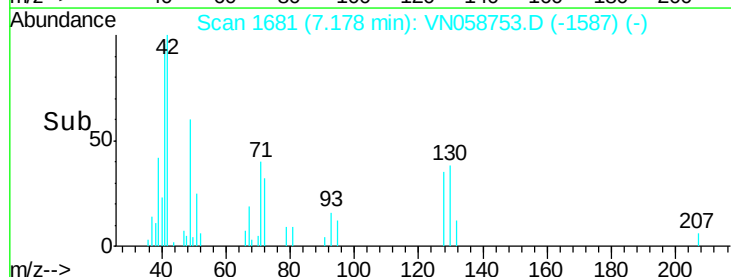
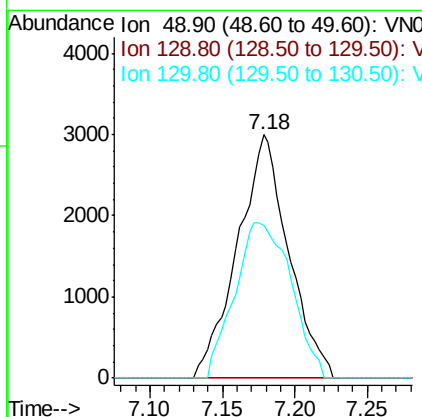
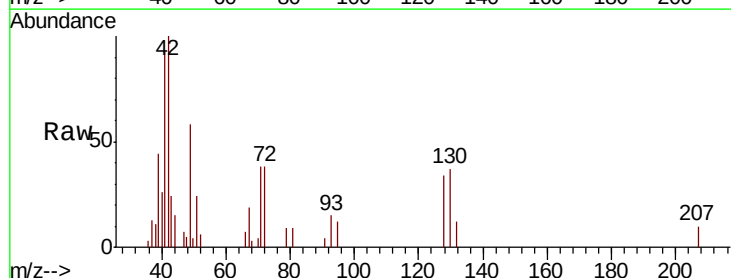
RT: 7.18 min Scan# 1681

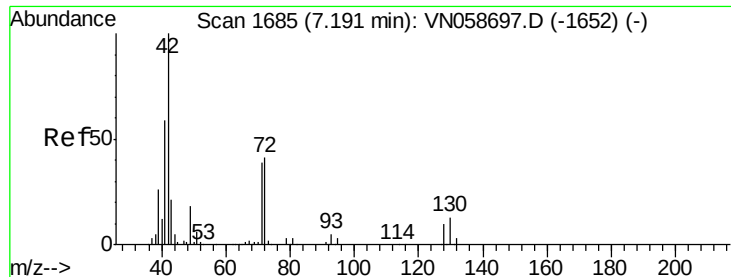
Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	49	Resp:	7312
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	70.4	55.0	82.4





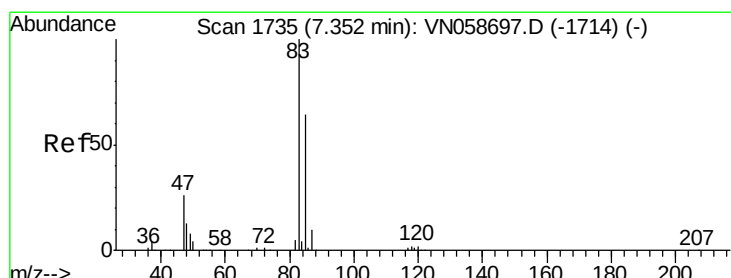
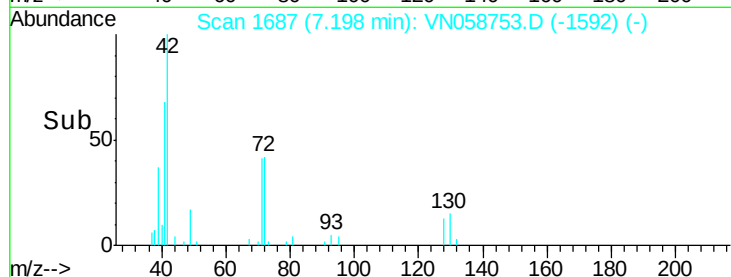
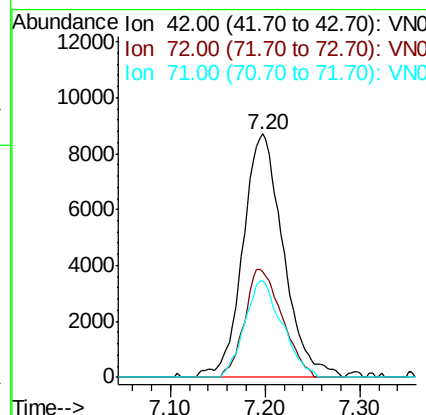
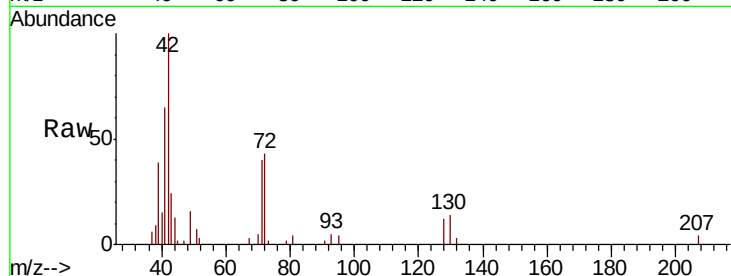
#29
Tetrahydrofuran
Concen: 12.631 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.8	49.2
71	36.8	31.1	46.7

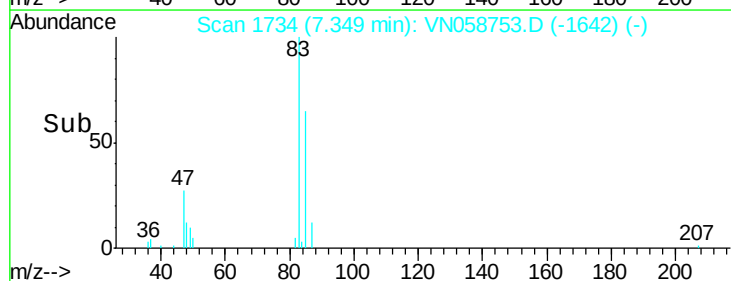
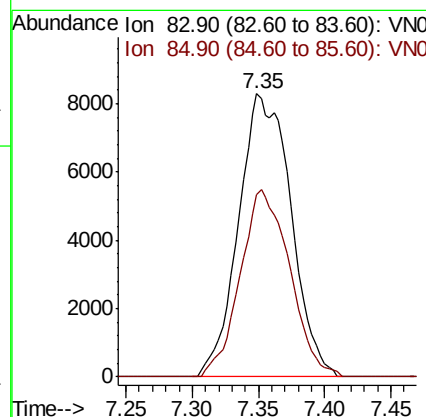
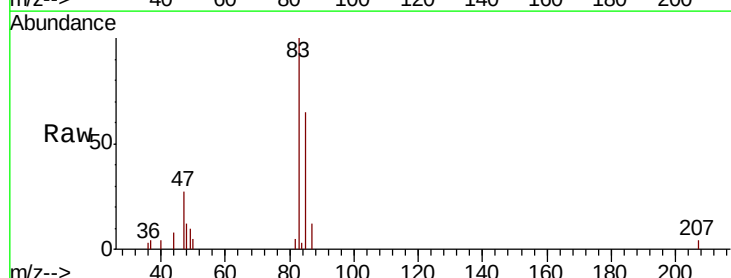
Manual Integrations
APPROVED

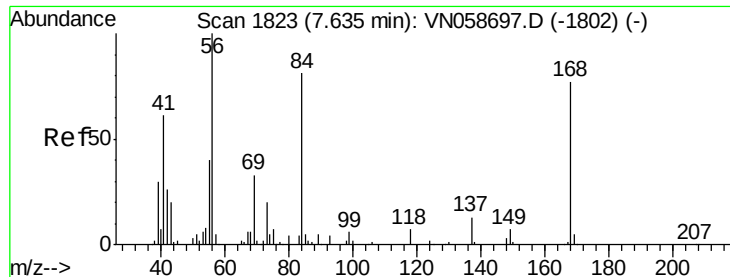
MMDadoda
10/16/2019 12:57:08 AM



#30
Chloroform
Concen: 2.793 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.6





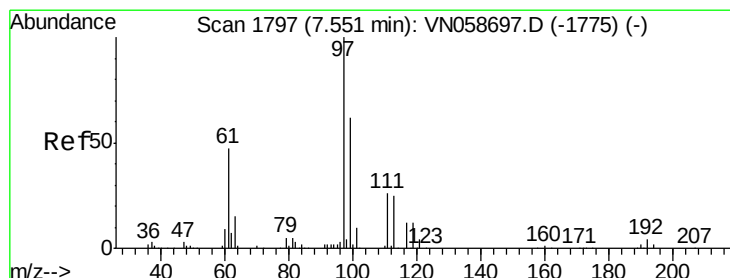
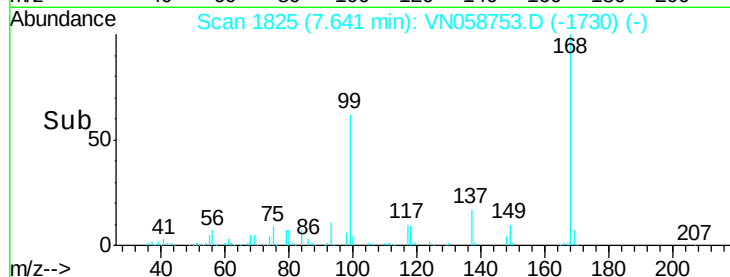
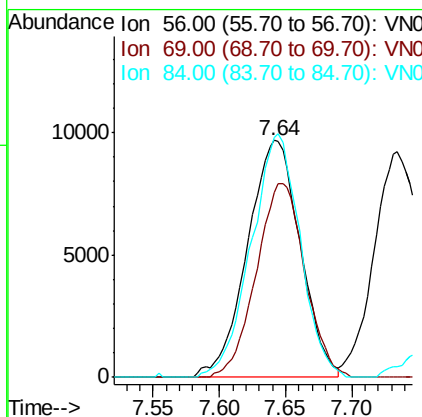
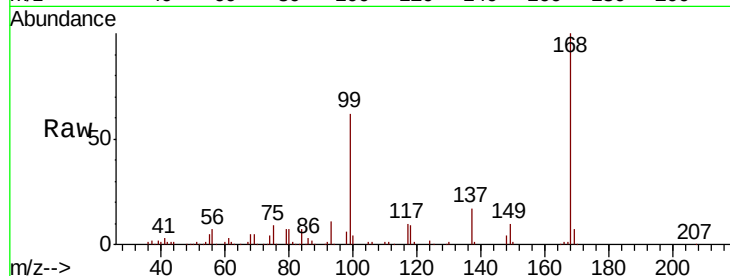
#31
Cyclohexane
Concen: 3.463 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	78.1	26.2	39.4#
84	101.3	64.9	97.3#

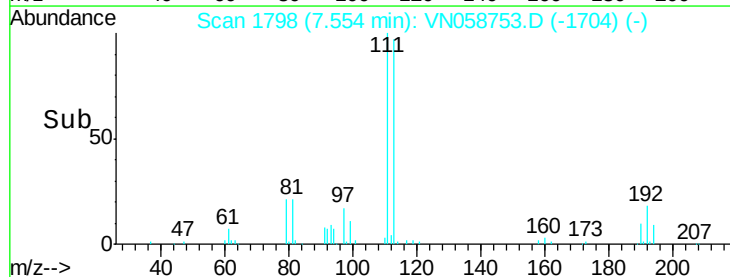
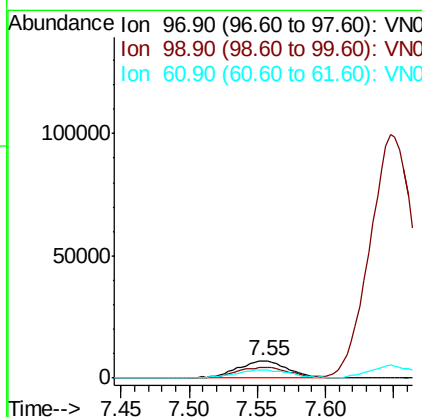
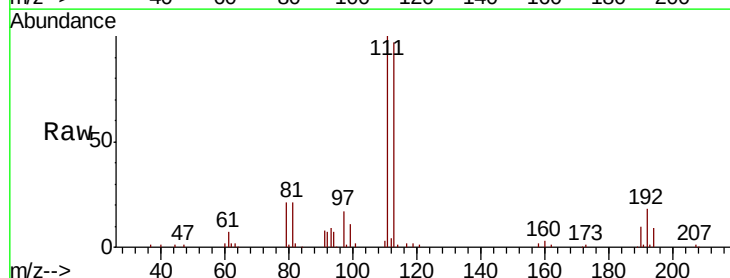
Manual Integrations
APPROVED

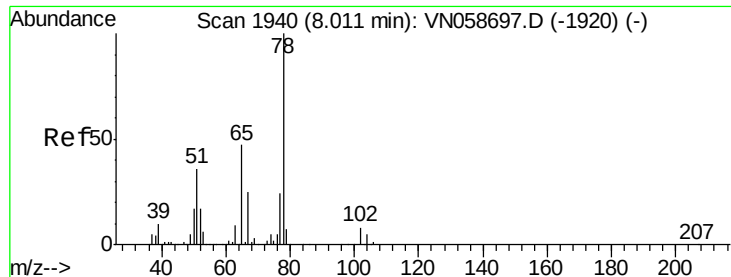
MMDadoda
10/16/2019 12:57:08 AM



#32
1,1,1-Trichloroethane
Concen: 2.644 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.3	50.8	76.2
61	49.0	38.1	57.1





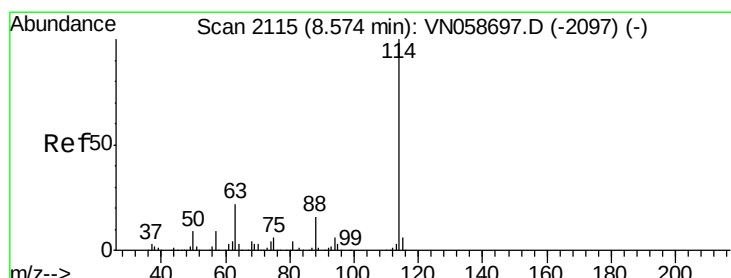
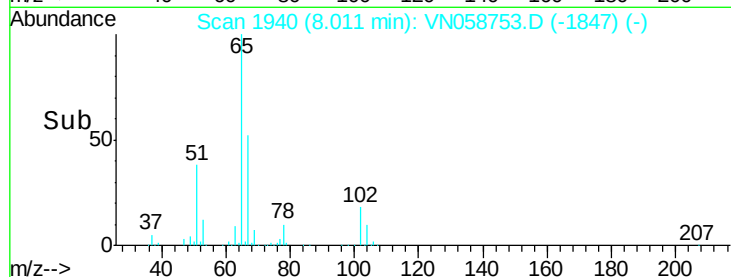
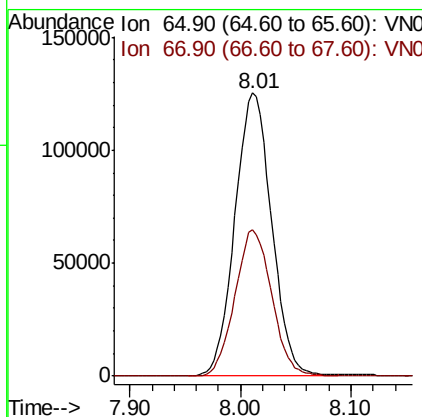
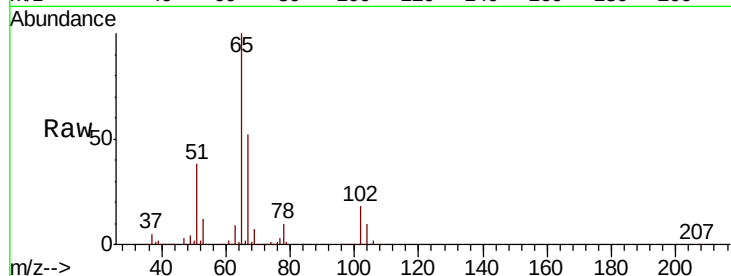
#33
 1,2-Dichloroethane-d4
 Concen: 54.668 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	289619		
67	51.8	0.0	103.8	

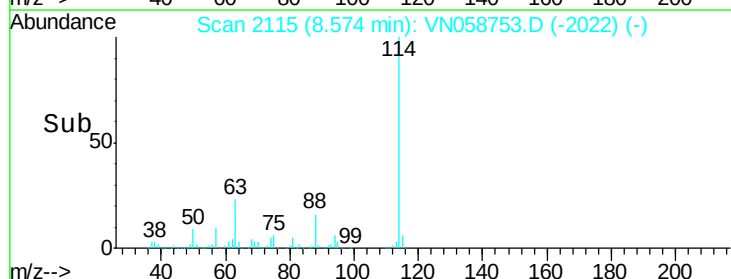
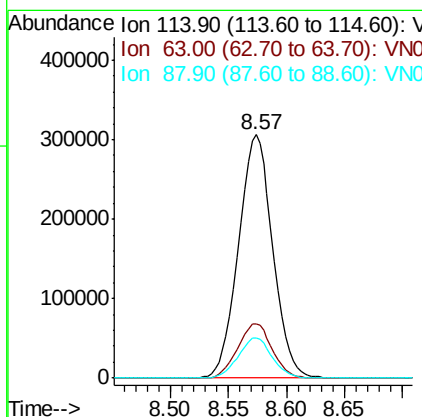
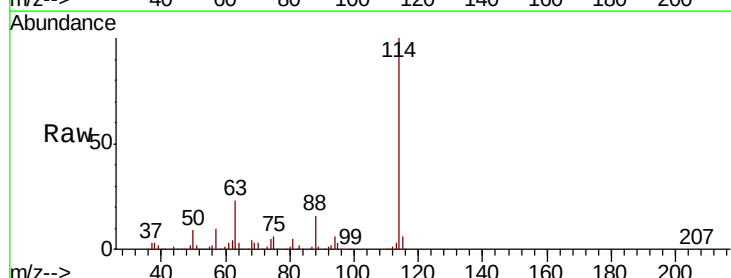
Manual Integrations
 APPROVED

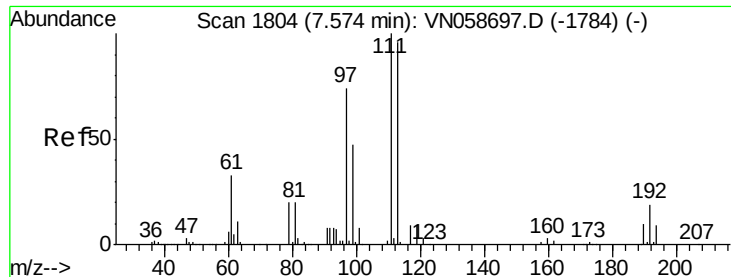
MMDadoda
 10/16/2019 12:57:08 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	626040		
63	22.5	0.0	43.8	
88	16.4	0.0	32.0	





#35

Dibromofluoromethane

Concen: 53.151 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

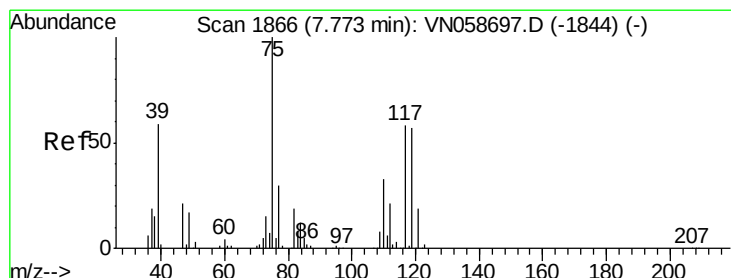
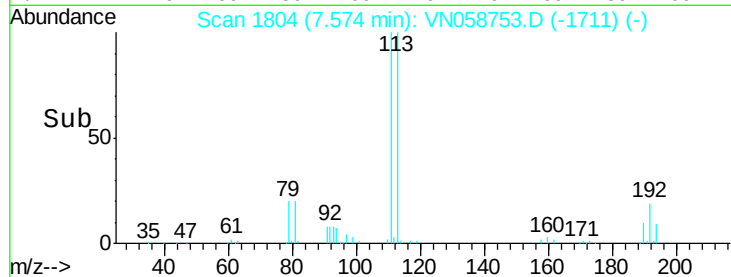
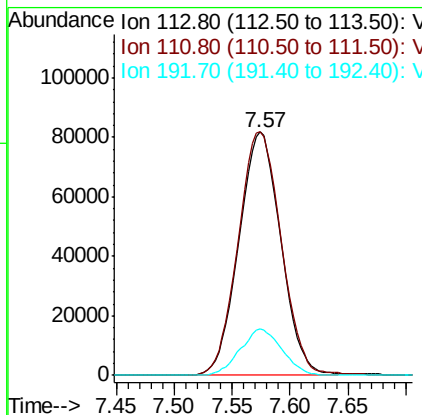
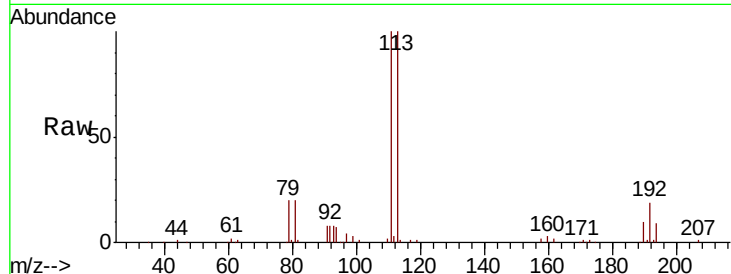
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	113	Resp:	205531
Ion Ratio	Lower	Upper	
113	100		
111	102.9	82.3	123.5
192	19.0	15.0	22.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#36

1,1-Dichloropropene

Concen: 2.529 ug/l

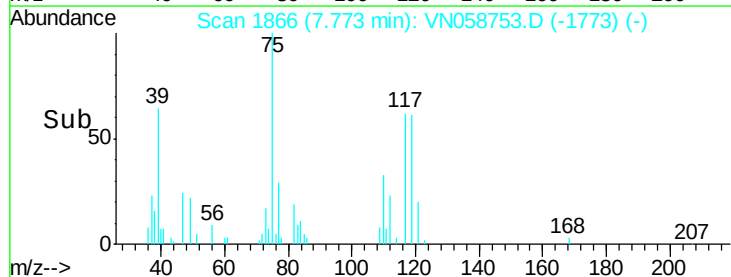
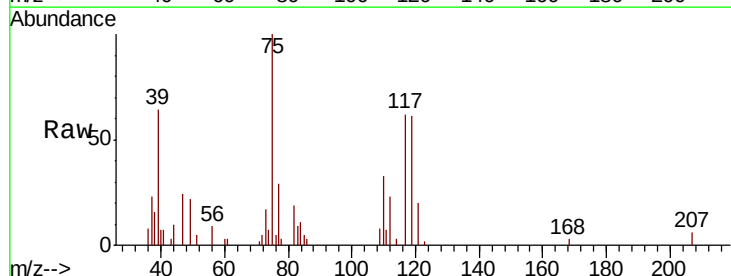
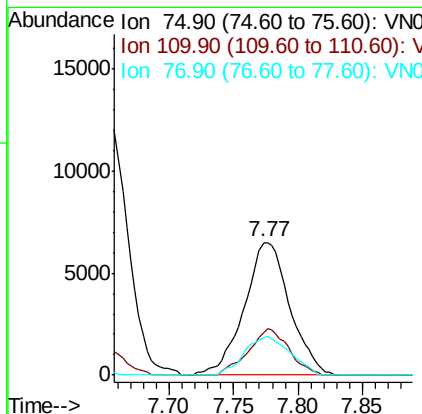
RT: 7.77 min Scan# 1866

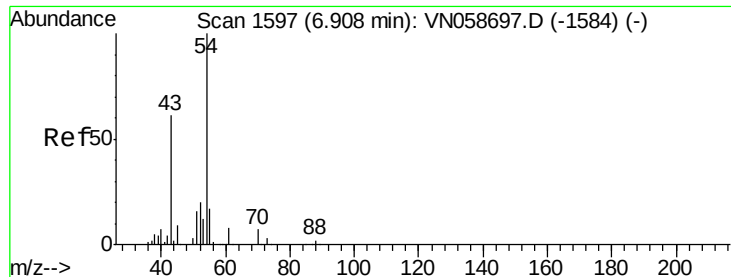
Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	75	Resp:	16006
Ion Ratio	Lower	Upper	
75	100		
110	31.1	16.6	49.8
77	28.9	24.6	37.0





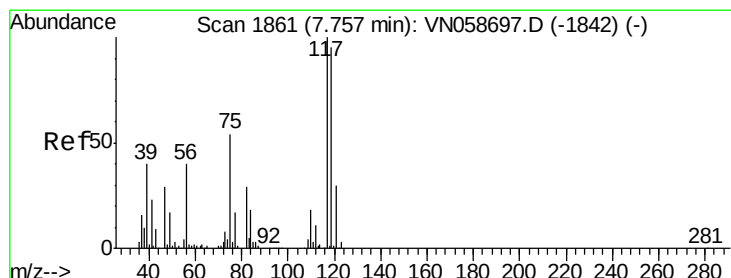
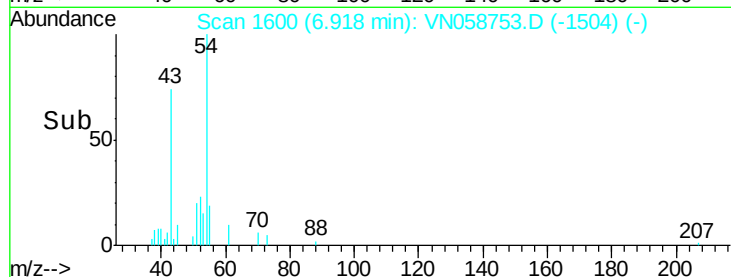
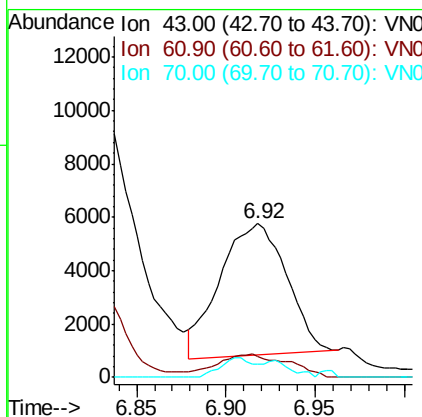
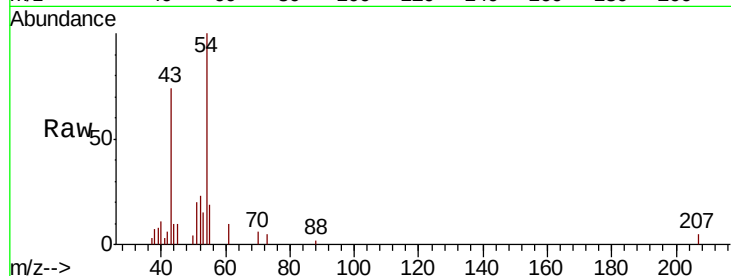
#37
Ethyl Acetate
Concen: 2.016 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	43	Resp	12907
Ion Ratio	100	Lower	Upper
43	100		
61	19.0	11.3	16.9#
70	7.2	7.2	10.8

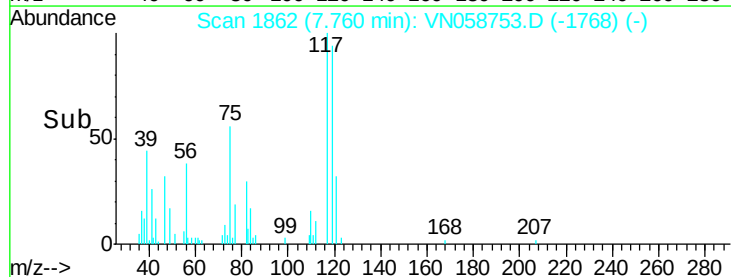
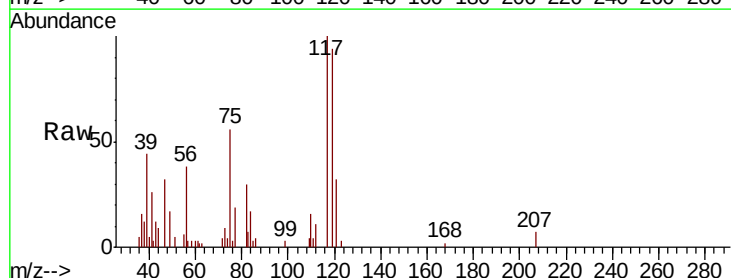
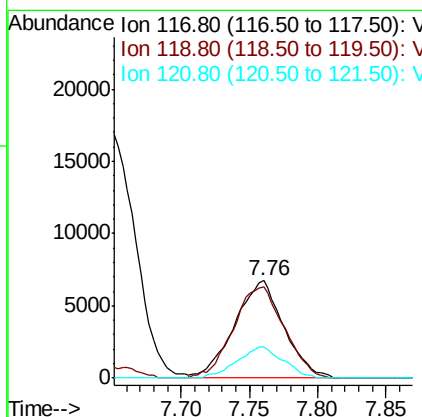
Manual Integrations
APPROVED

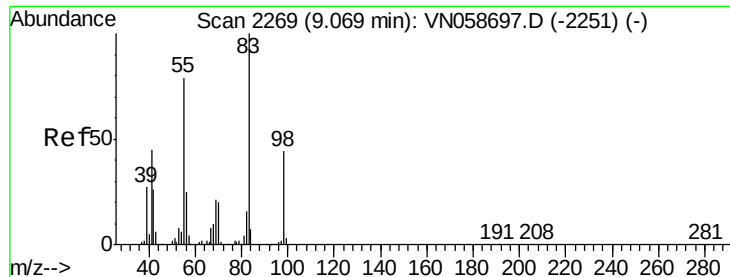
MMDadoda
10/16/2019 12:57:08 AM



#38
Carbon Tetrachloride
Concen: 2.748 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	117	Resp	16950
Ion Ratio	100	Lower	Upper
117	100		
119	94.1	75.7	113.5
121	31.8	23.9	35.9





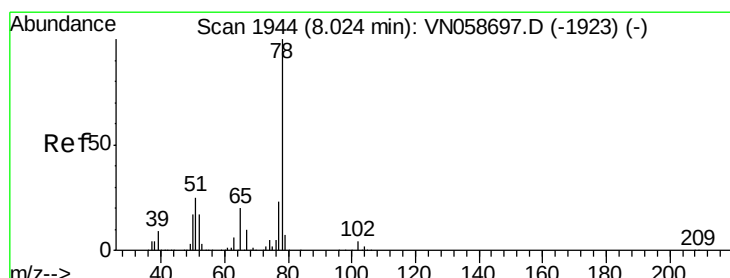
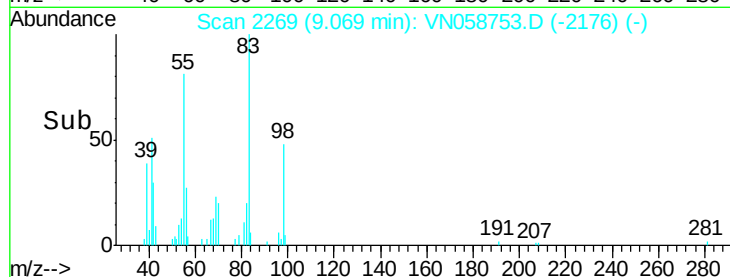
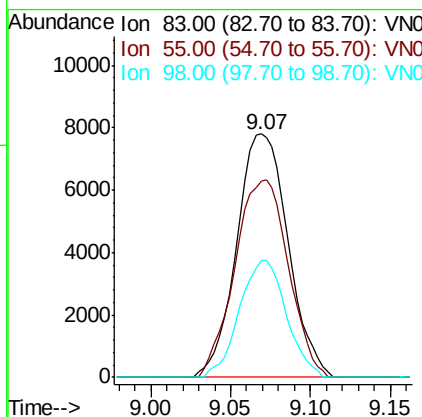
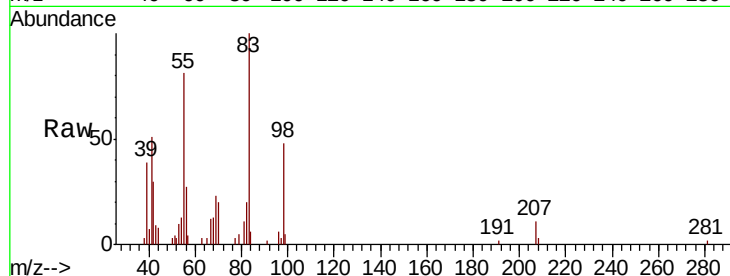
#39
Methylvlcyclohexane
Concen: 2.331 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	83.00	Resp	17121
Ion	Ratio	Lower	Upper
83	100		
55	80.6	63.4	95.0
98	48.2	35.1	52.7

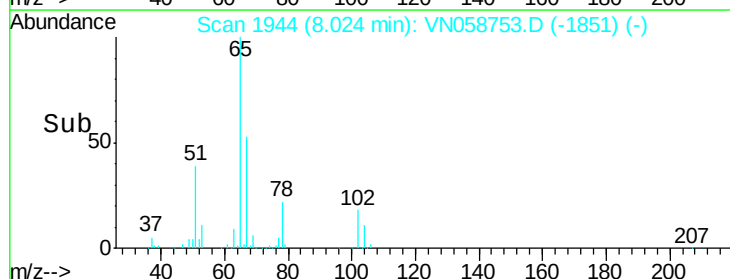
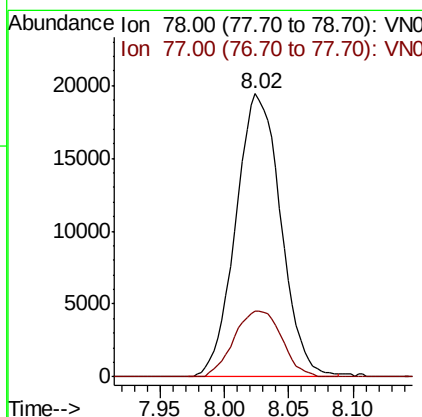
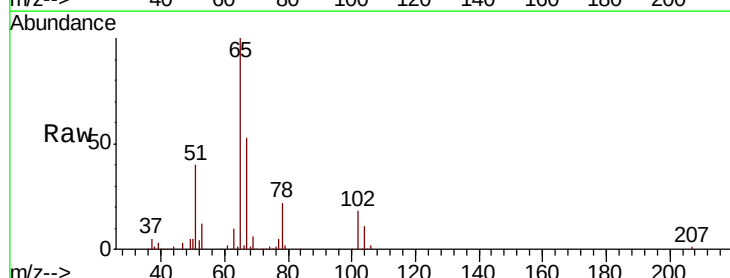
Manual Integrations
APPROVED

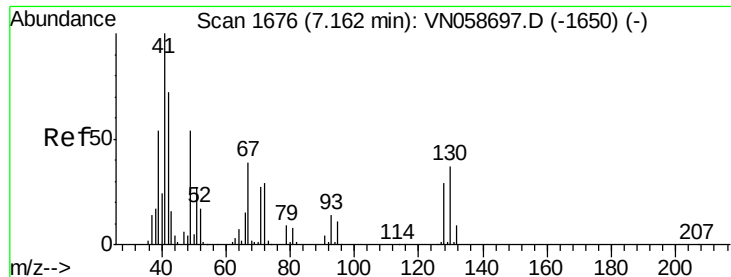
MMDadoda
10/16/2019 12:57:08 AM



#40
Benzene
Concen: 2.604 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	78.00	Resp	47344
Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





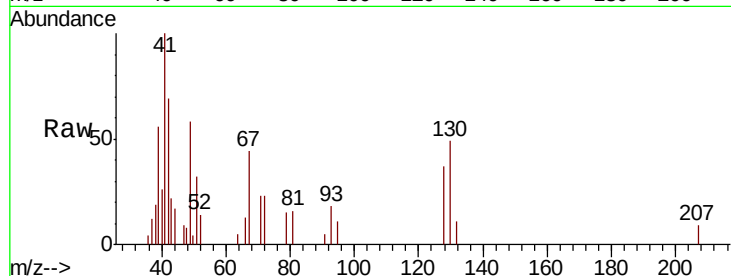
#41
Methacrylonitrile
Concen: 2.610 ug/l m
RT: 7.17 min Scan# 1678
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

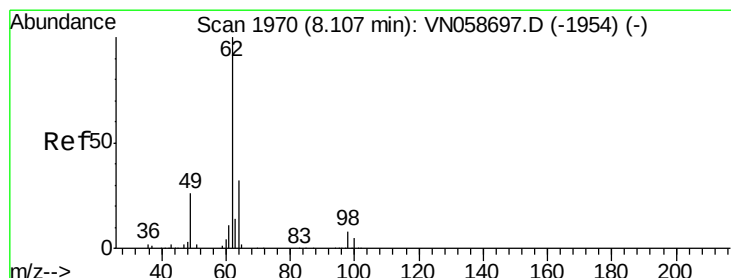
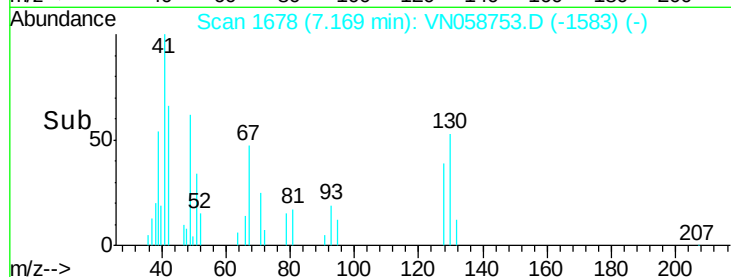
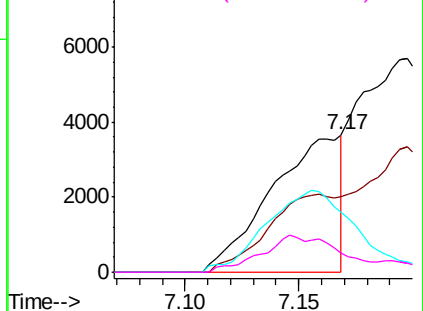
Tot Ion:	41	Resp:	7822
Ion Ratio	Lower	Upper	
41	100		
39	86.6	115.4	173.2#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM

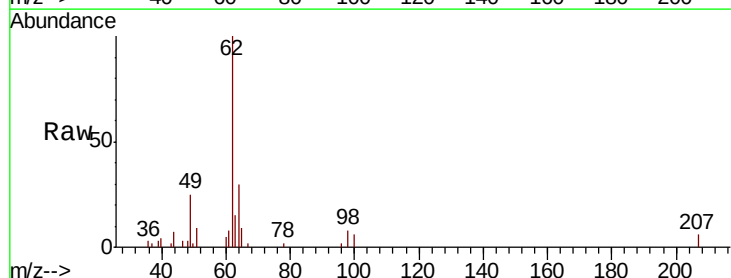


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

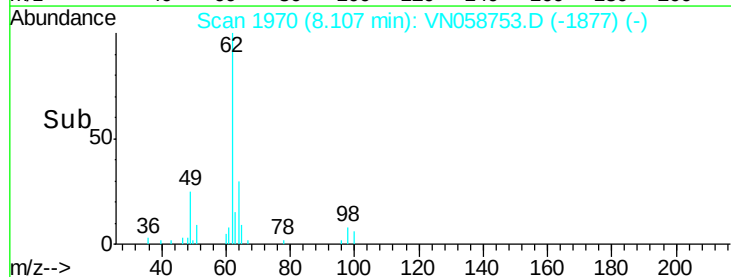
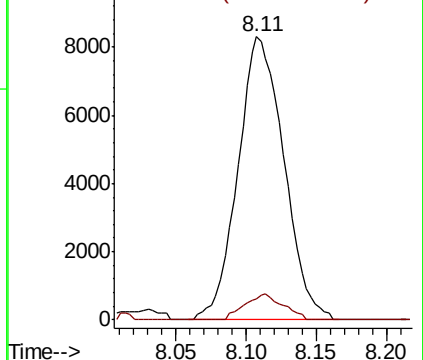


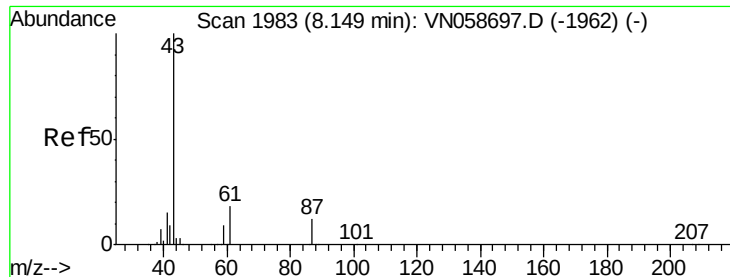
#42
1,2-Dichloroethane
Concen: 2.707 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion:	62	Resp:	18908
Ion Ratio	Lower	Upper	
62	100		
98	7.6	0.0	15.8



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 2.654 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

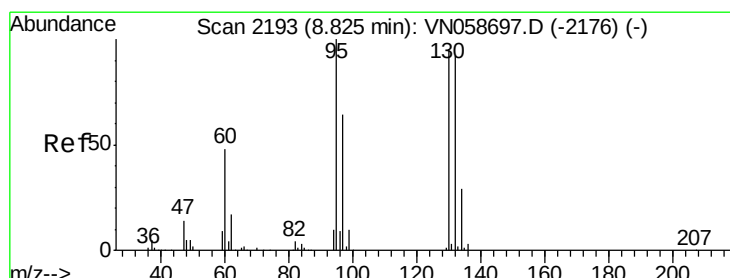
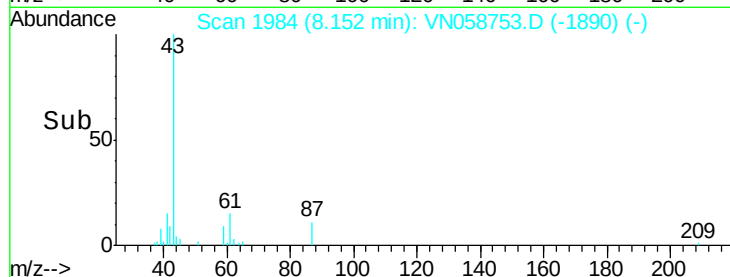
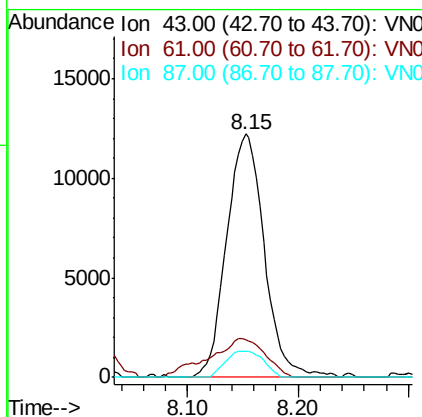
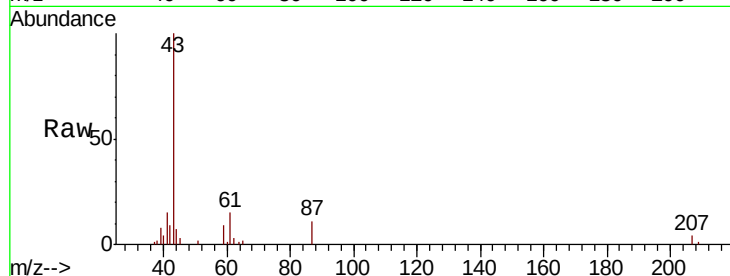
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	43	Resp:	28939
Ion	Ratio	Lower	Upper
43	100		
61	23.7	20.3	30.5
87	10.8	9.8	14.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#44

Trichloroethene

Concen: 2.684 ug/l

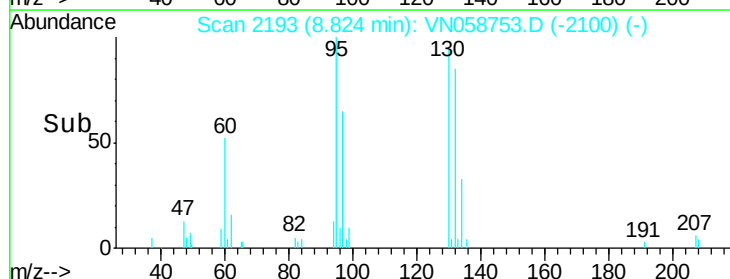
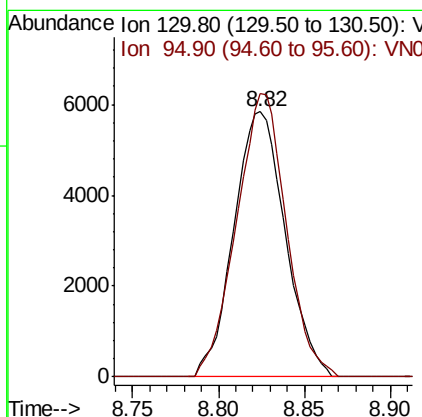
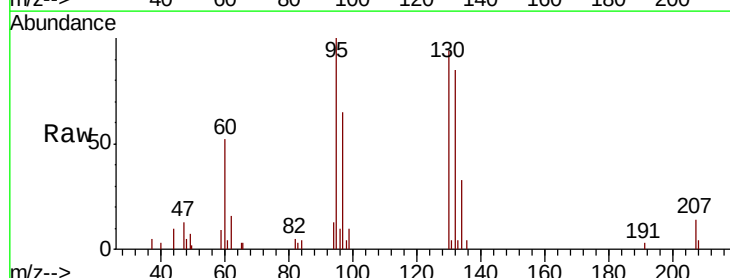
RT: 8.82 min Scan# 2193

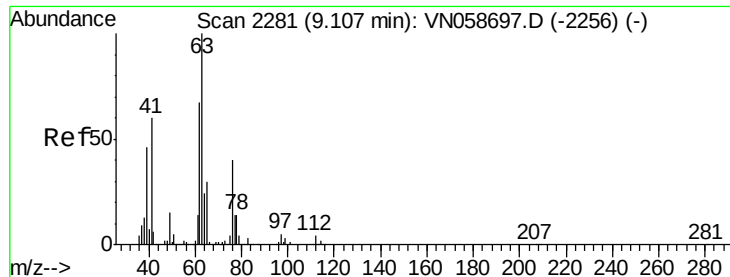
Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	130	Resp:	12117
Ion	Ratio	Lower	Upper
130	100		
95	106.8	0.0	211.2





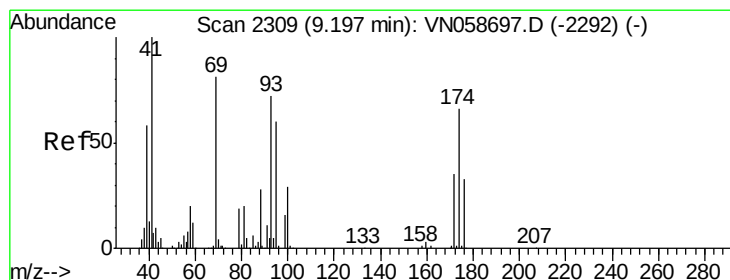
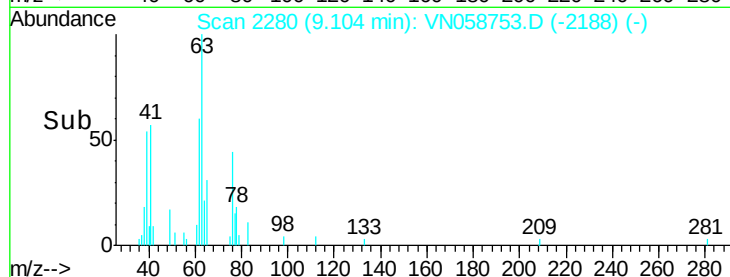
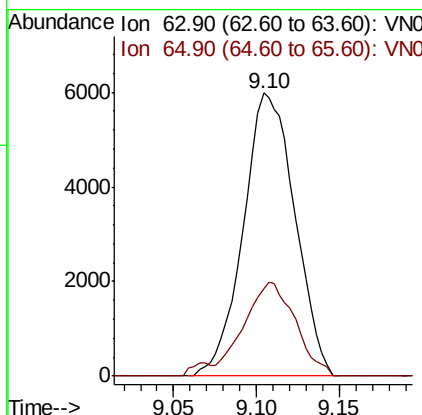
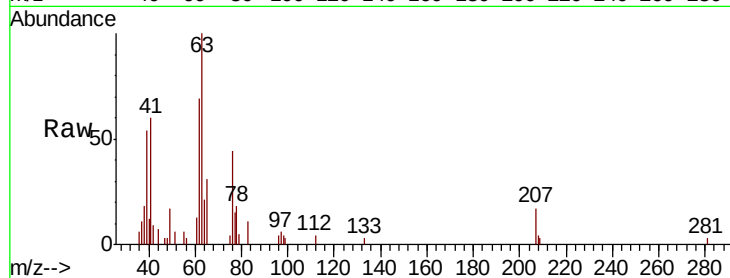
#45
 1,2-Dichloropropane
 Concen: 2.656 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1

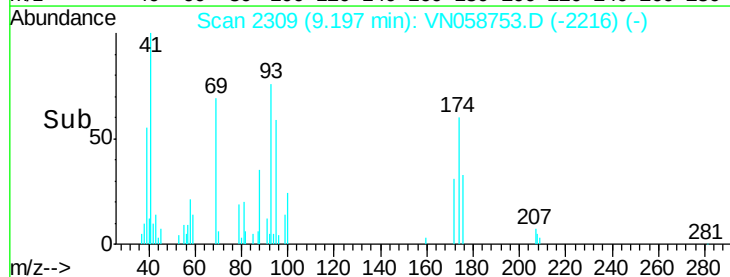
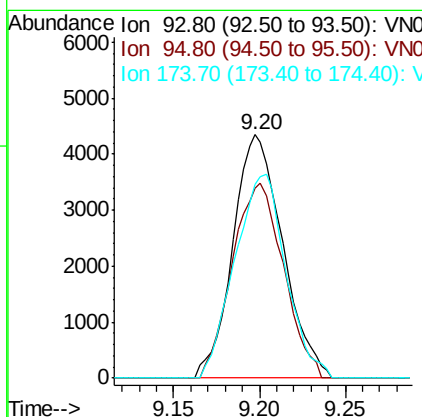
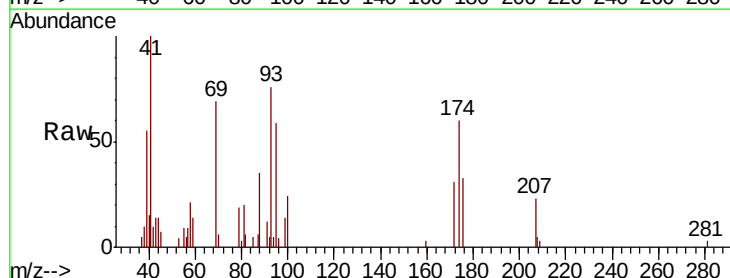
Manual Integrations
 APPROVED

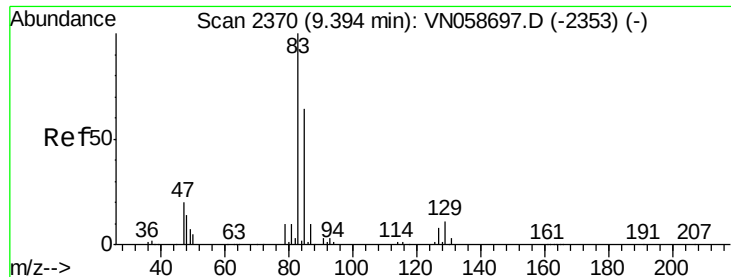
MMDadoda
 10/16/2019 12:57:08 AM



#46
 Dibromomethane
 Concen: 2.841 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.2	66.6	100.0
174	86.1	75.2	112.8





#47

Bromodichloromethane

Concen: 2.735 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

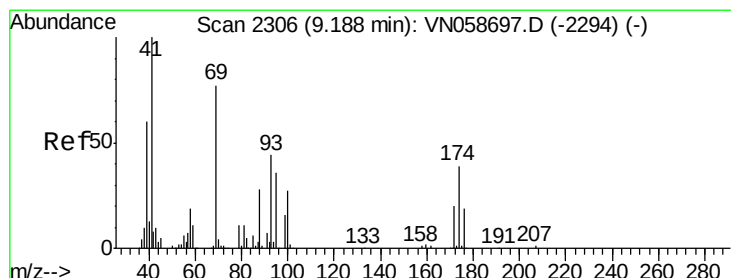
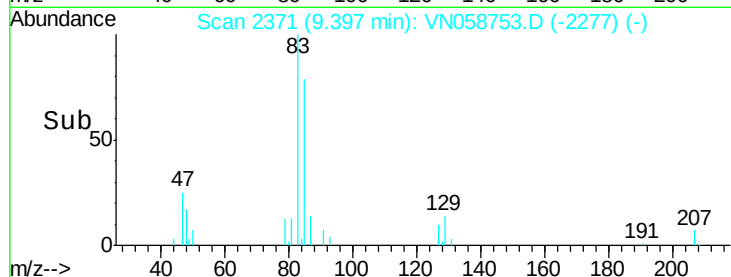
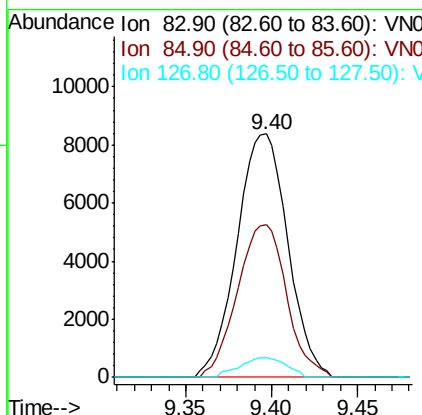
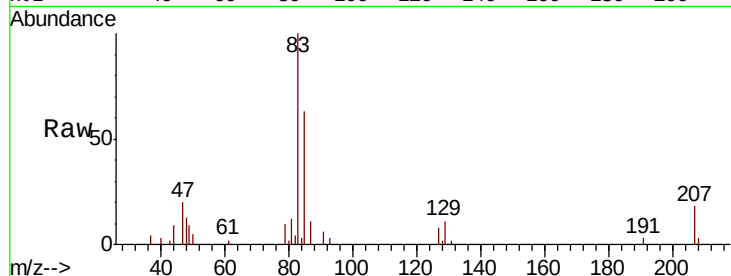
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	17182
Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.9	76.3
127	8.0	6.3	9.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#48

Methyl methacrylate

Concen: 2.433 ug/l

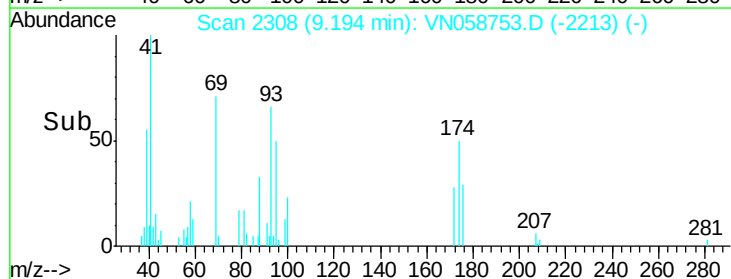
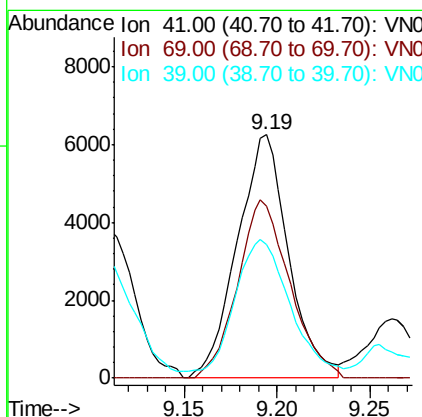
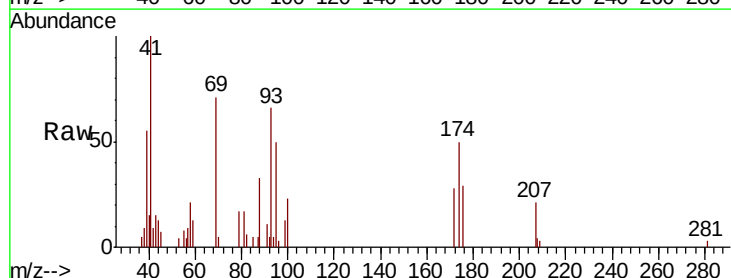
RT: 9.19 min Scan# 2308

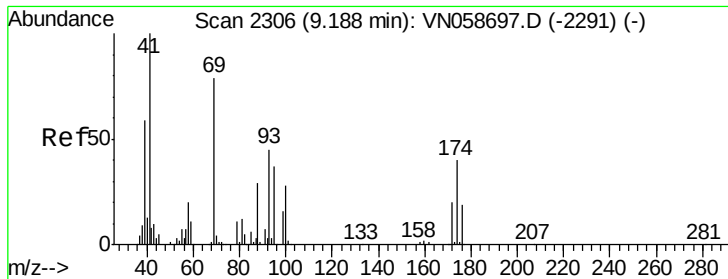
Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	41	Resp:	12028
Ion	Ratio	Lower	Upper
41	100		
69	74.5	63.4	95.2
39	62.8	48.9	73.3





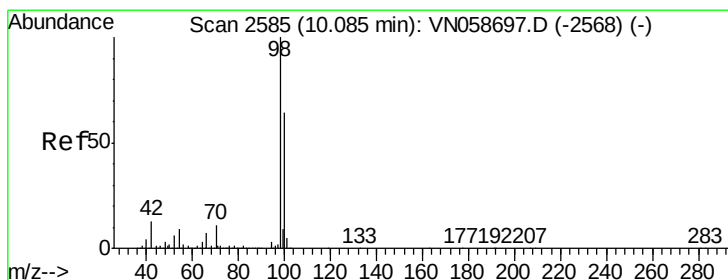
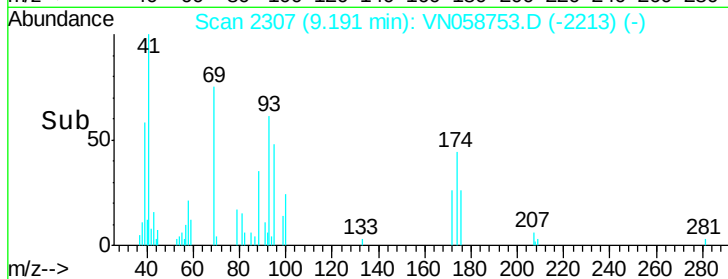
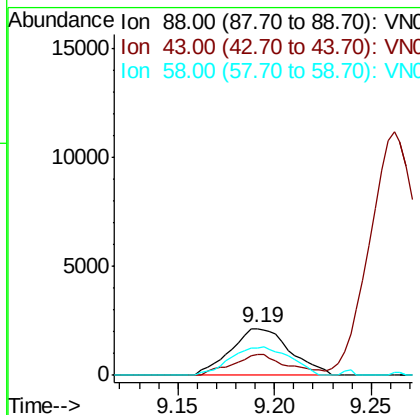
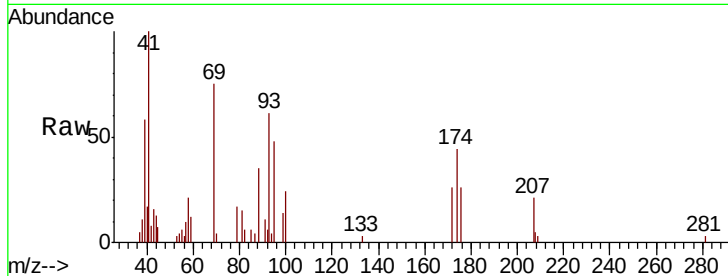
#49
1,4-Dioxane
Concen: 59.785 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.0	28.6	43.0#
58	61.7	57.2	85.8

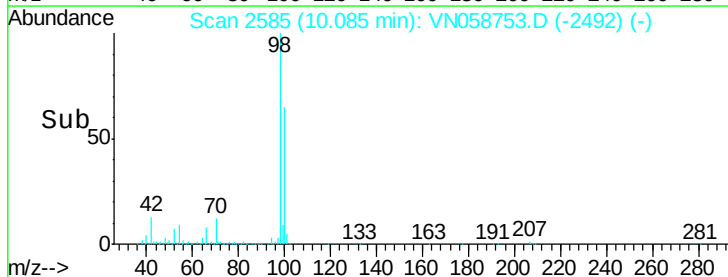
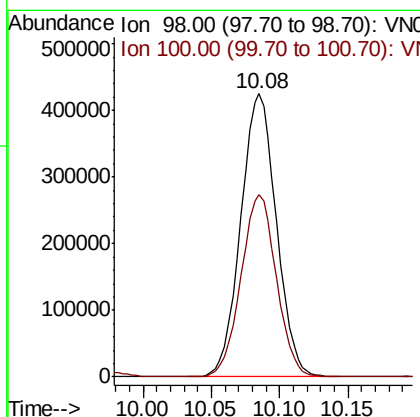
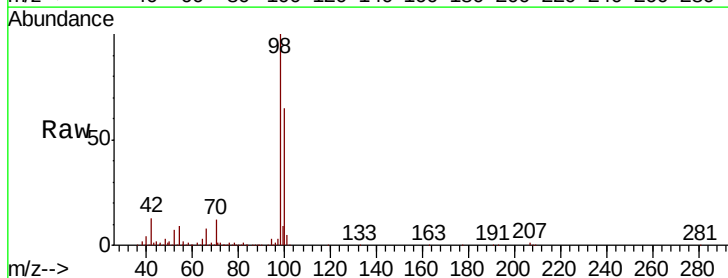
Manual Integrations
APPROVED

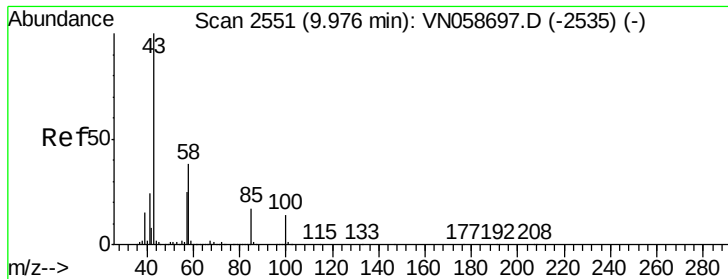
MMDadoda
10/16/2019 12:57:08 AM



#50
Toluene-d8
Concen: 49.817 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 12.796 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 78371

Ion Ratio Lower Upper

43 100

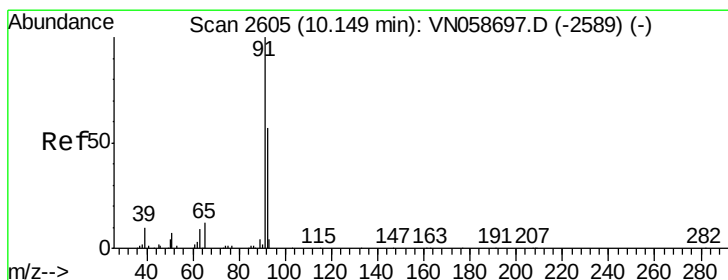
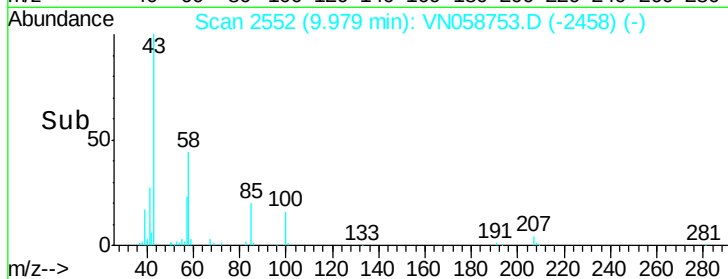
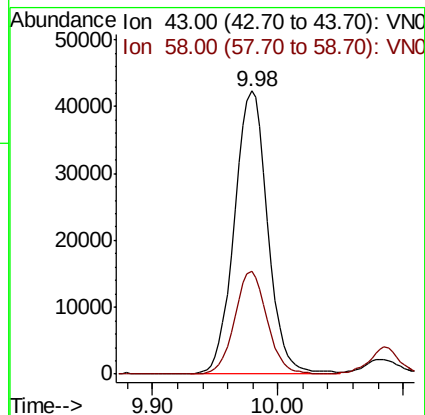
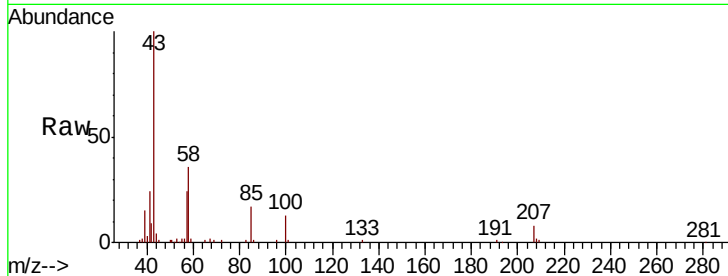
58 35.2 30.3 45.5

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#52

Toluene

Concen: 2.615 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058753.D

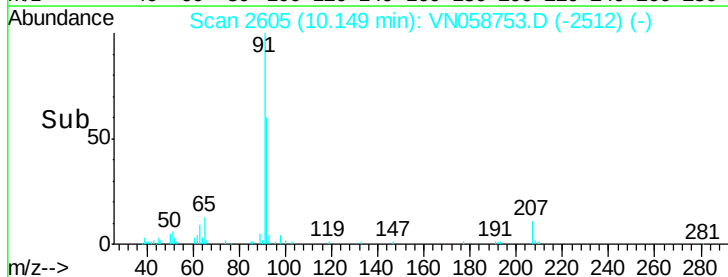
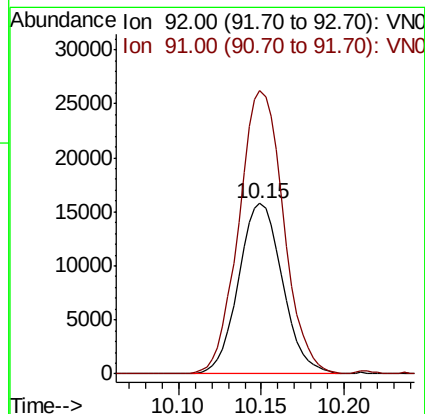
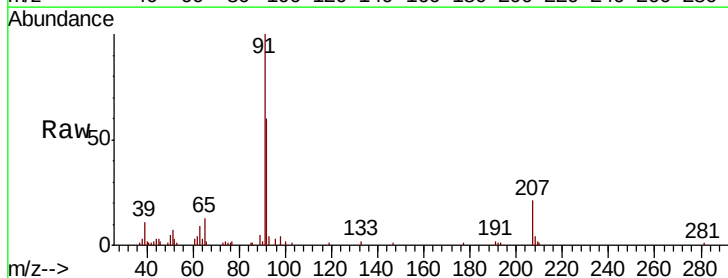
Acq: 14 Oct 2019 16:55

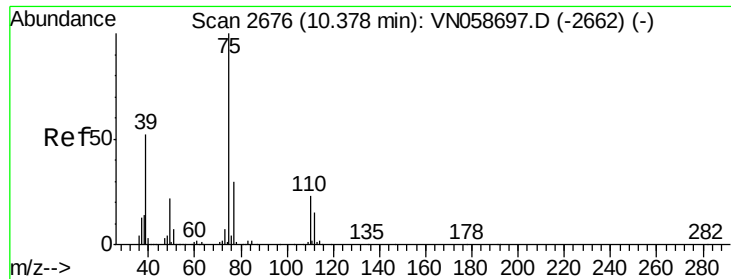
Tgt Ion: 92 Resp: 29073

Ion Ratio Lower Upper

92 100

91 169.4 139.1 208.7





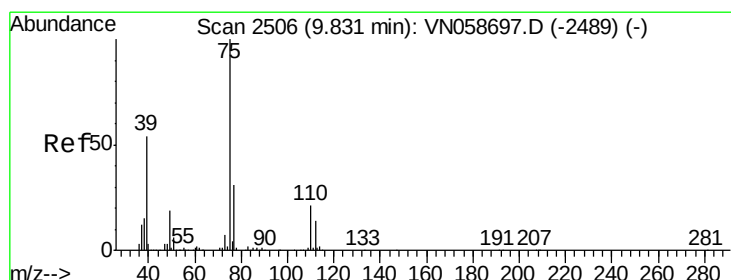
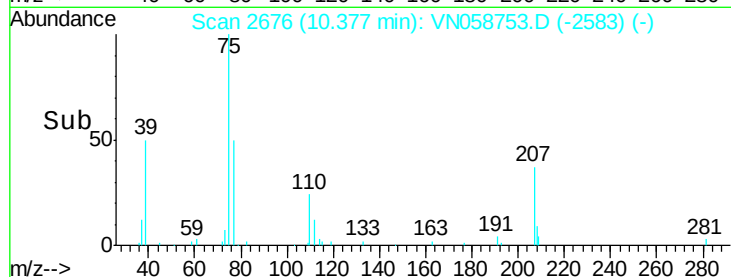
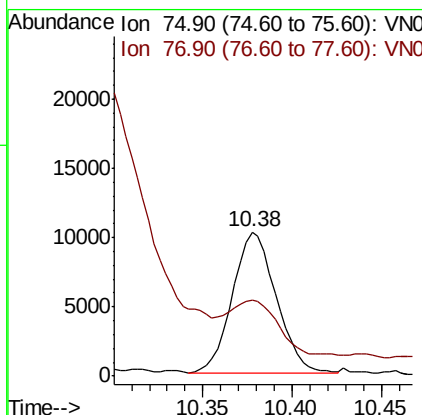
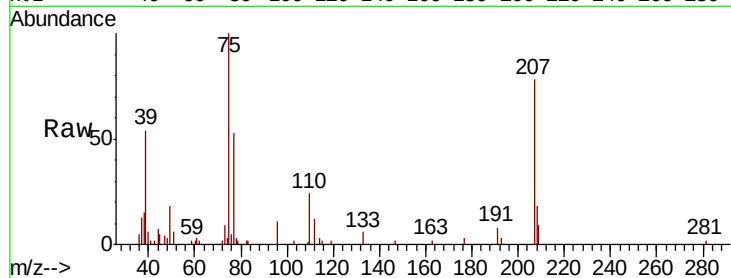
#53
t-1,3-Dichloropropene
Concen: 2.402 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion: 75 Resp: 17309
Ion Ratio Lower Upper
75 100
77 39.2 26.2 39.4

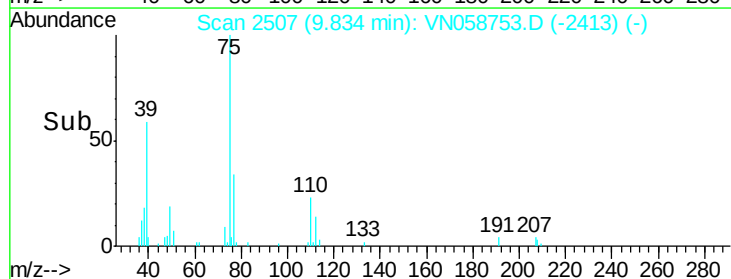
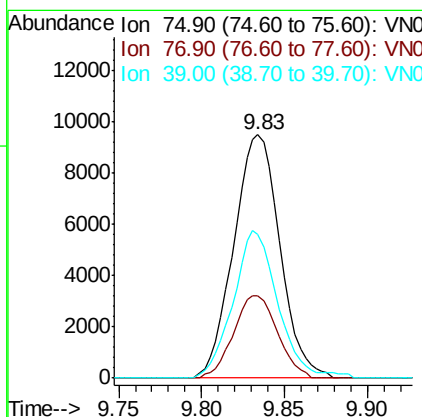
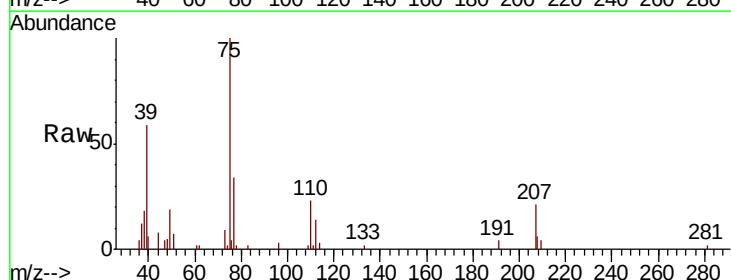
Manual Integrations
APPROVED

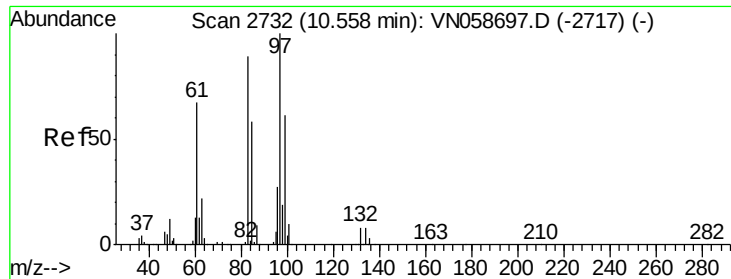
MMDadoda
10/16/2019 12:57:08 AM



#54
cis-1,3-Dichloropropene
Concen: 2.412 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 75 Resp: 18457
Ion Ratio Lower Upper
75 100
77 33.6 24.4 36.6
39 59.3 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 2.528 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

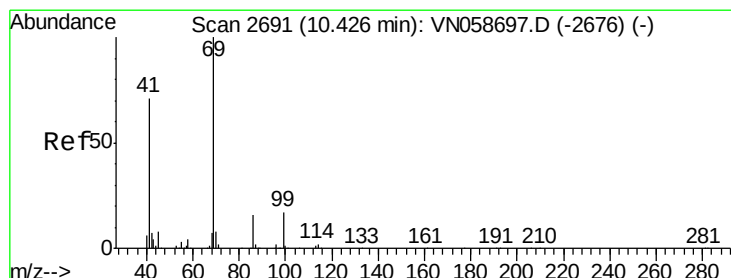
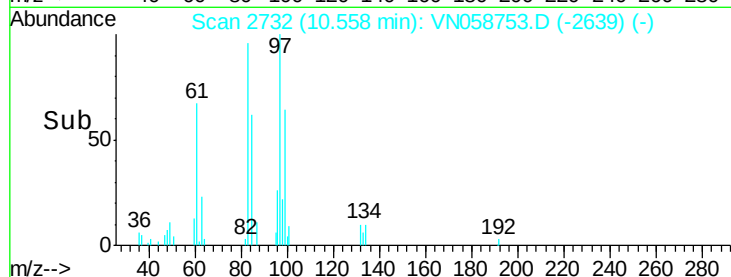
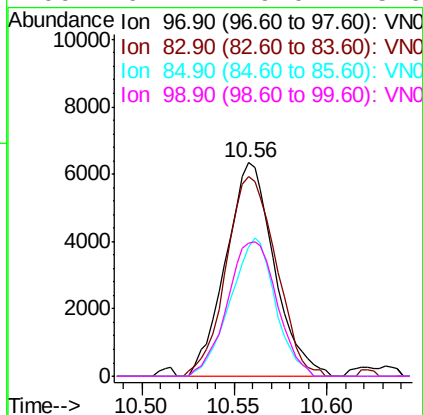
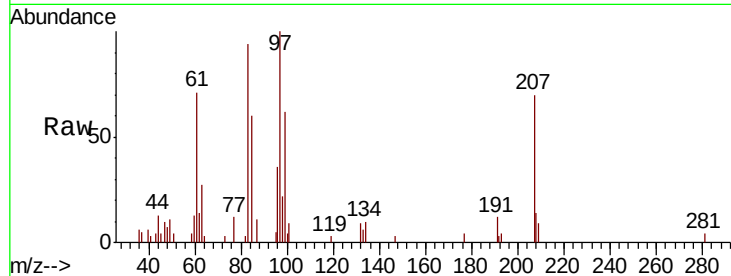
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	97	Resp:	11505
Ion	Ratio	Lower	Upper
97	100		
83	93.8	71.2	106.8
85	60.3	46.7	70.1
99	62.1	49.0	73.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#56

Ethyl methacrylate

Concen: 2.149 ug/l

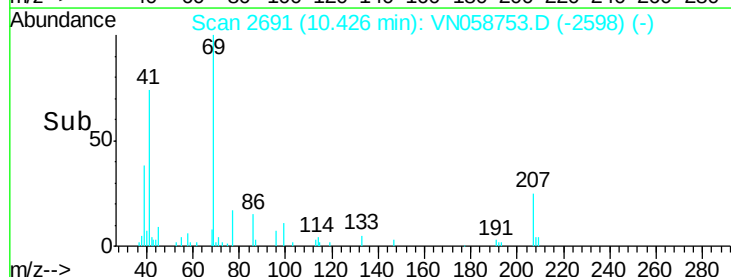
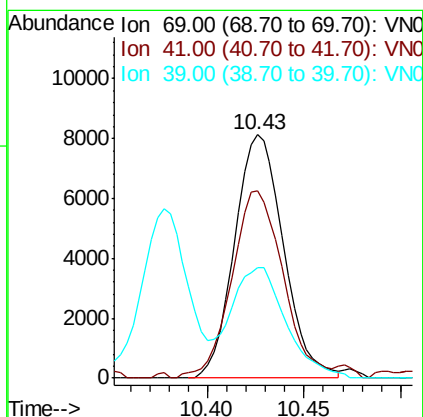
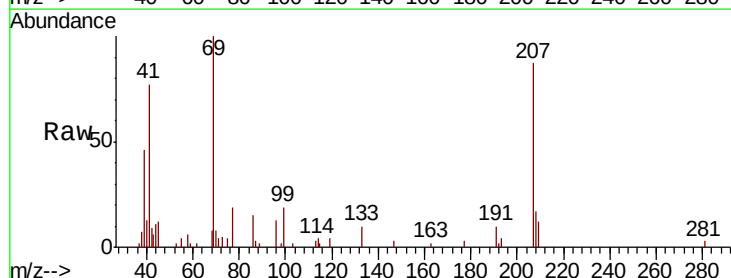
RT: 10.43 min Scan# 2691

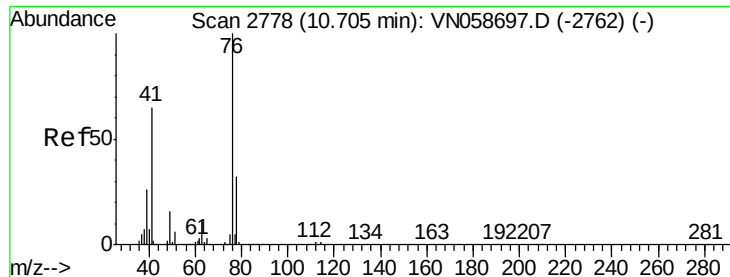
Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	69	Resp:	14287
Ion	Ratio	Lower	Upper
69	100		
41	81.1	56.8	85.2
39	50.7	32.5	48.7#





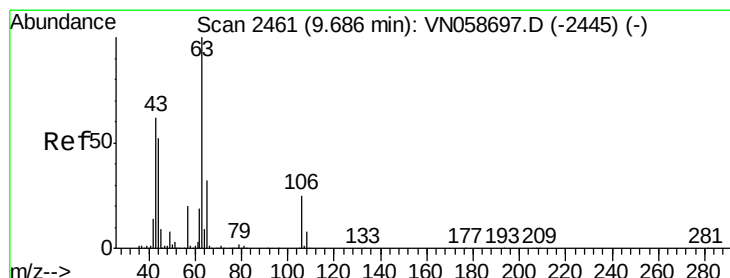
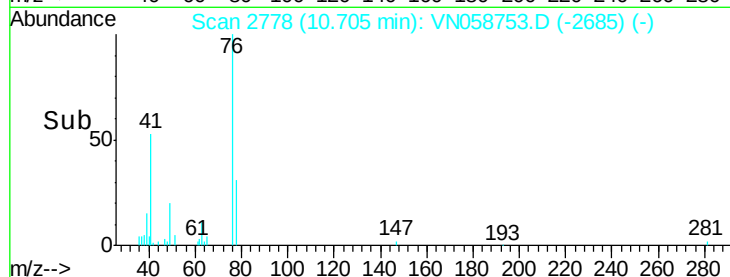
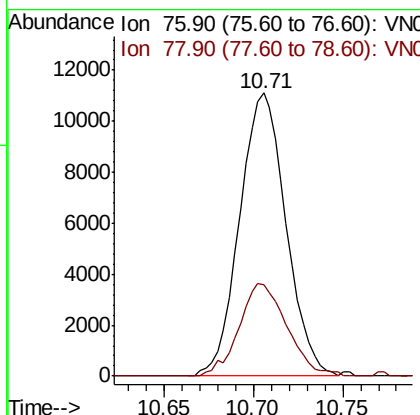
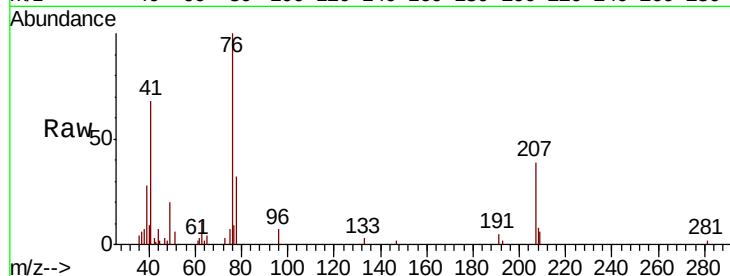
#57
 1,3-Dichloropropane
 Concen: 2.587 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.8	25.9	38.9

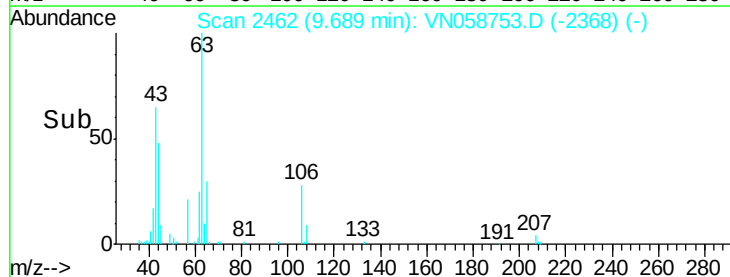
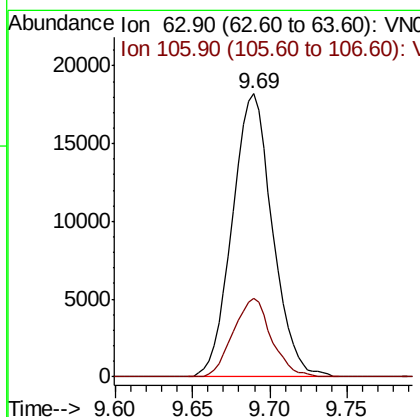
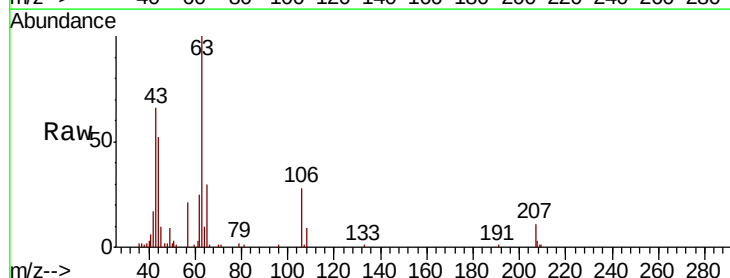
Manual Integrations
 APPROVED

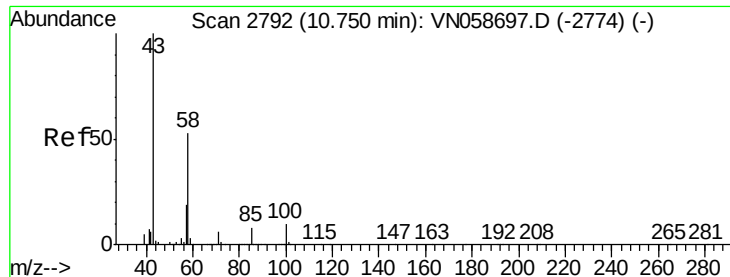
MMDadoda
 10/16/2019 12:57:08 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.268 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.3	20.0	30.0





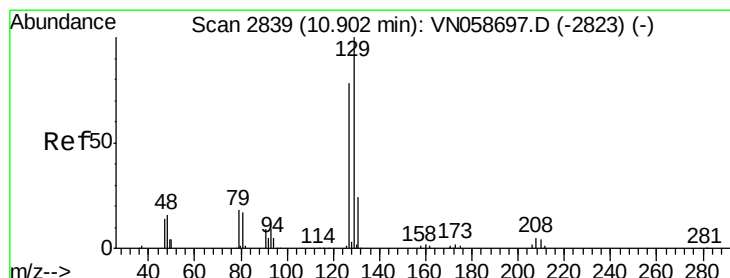
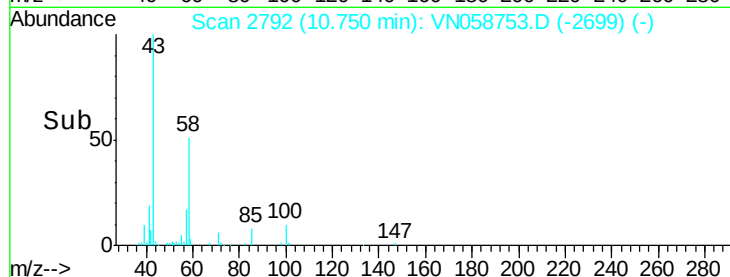
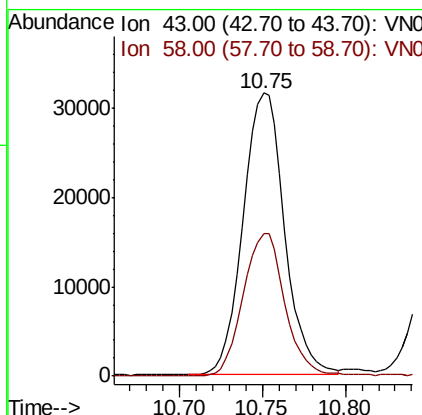
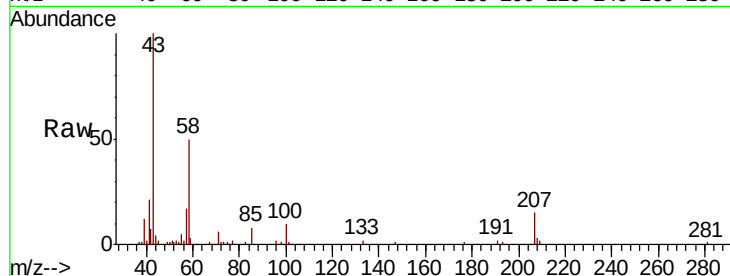
#59
2-Hexanone
Concen: 11.587 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion: 43 Resp: 54840
Ion Ratio Lower Upper
43 100
58 51.0 26.1 78.3

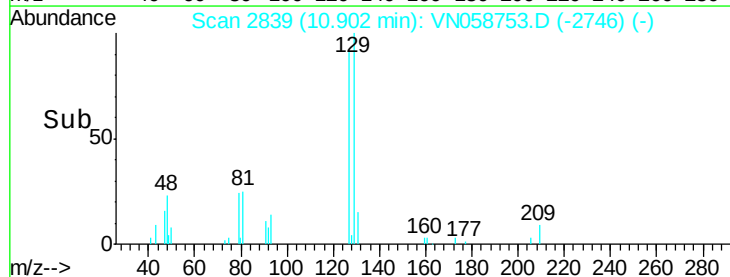
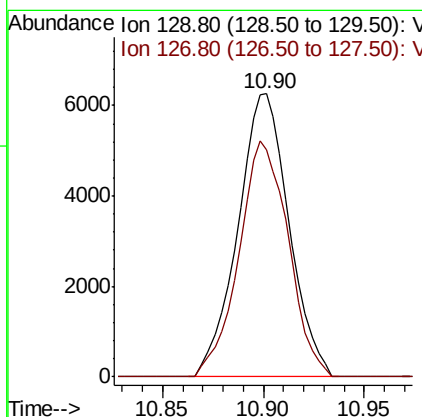
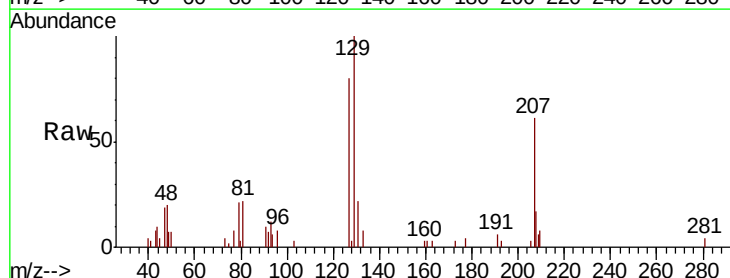
Manual Integrations
APPROVED

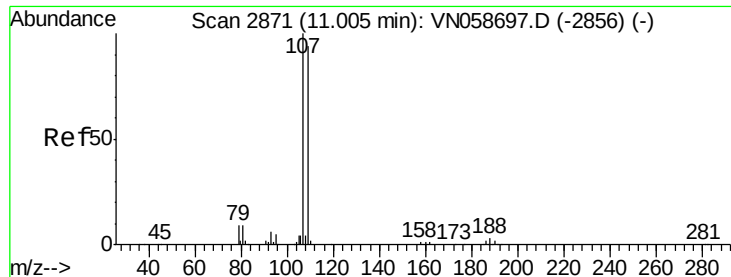
MMDadoda
10/16/2019 12:57:08 AM



#60
Dibromochloromethane
Concen: 2.362 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 129 Resp: 11087
Ion Ratio Lower Upper
129 100
127 80.6 38.5 115.3





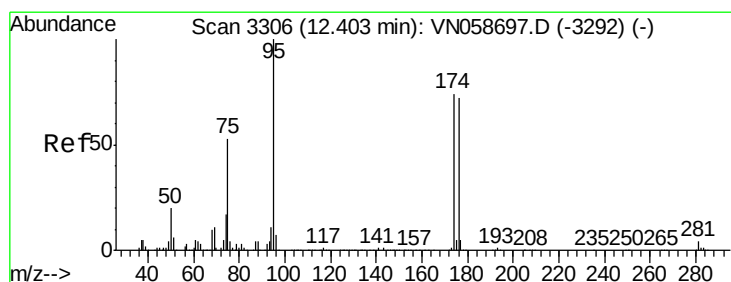
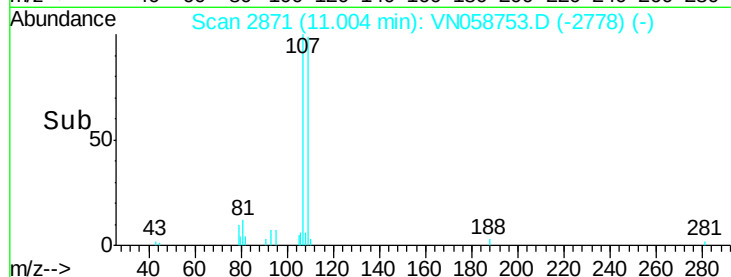
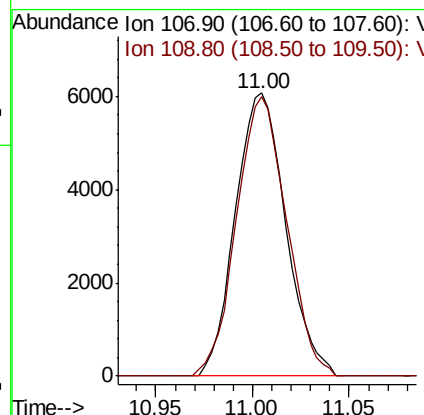
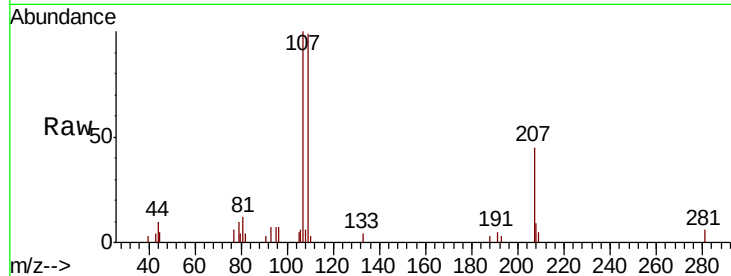
#61
 1,2-Dibromoethane
 Concen: 2.410 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion: 107 Resp: 10989
 Ion Ratio Lower Upper
 107 100
 109 98.0 75.4 113.0

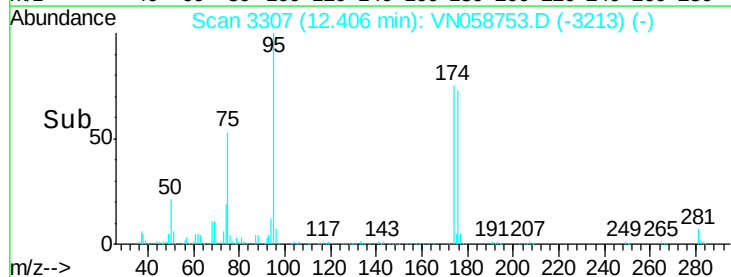
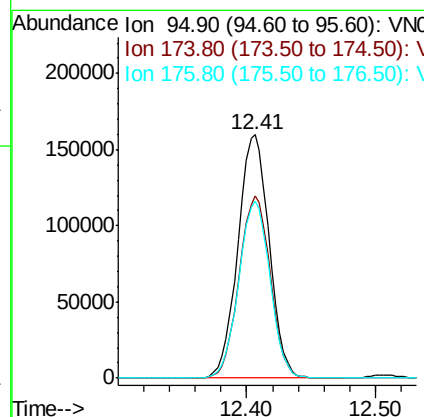
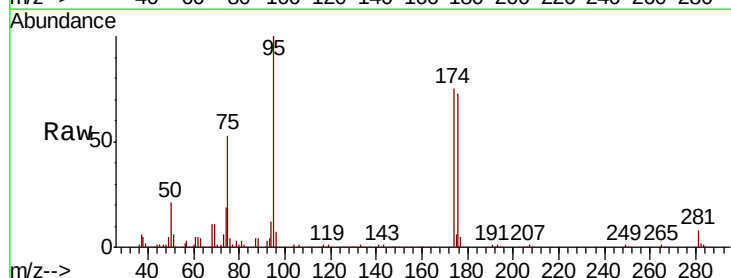
Manual Integrations
 APPROVED

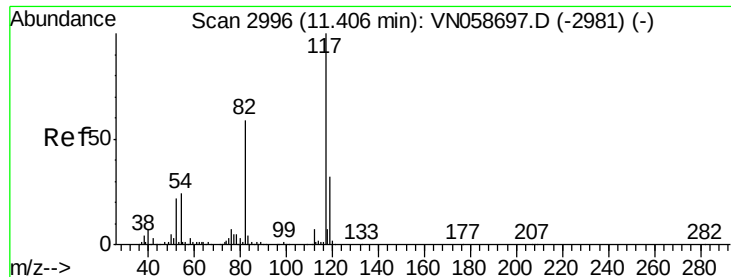
MMDadoda
 10/16/2019 12:57:08 AM



#62
 4-Bromofluorobenzene
 Concen: 45.992 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 95 Resp: 269204
 Ion Ratio Lower Upper
 95 100
 174 74.8 0.0 150.4
 176 72.7 0.0 146.8





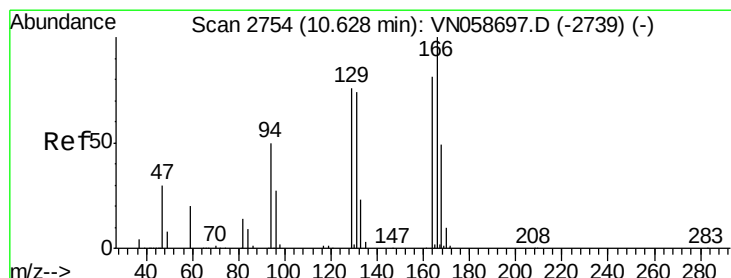
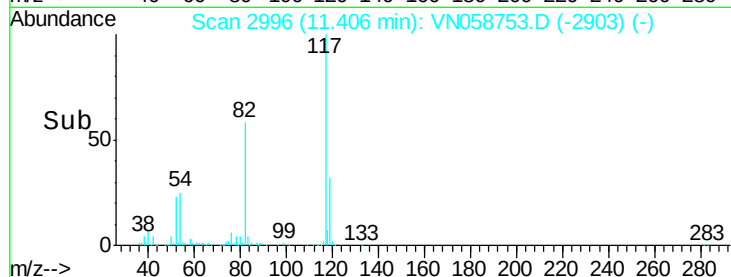
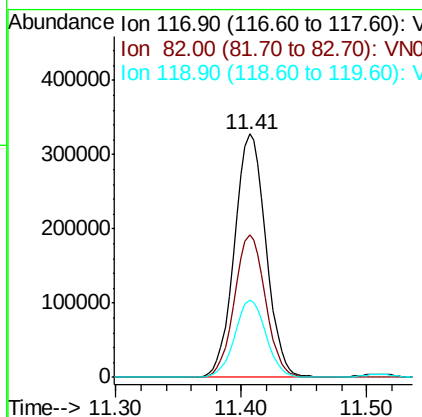
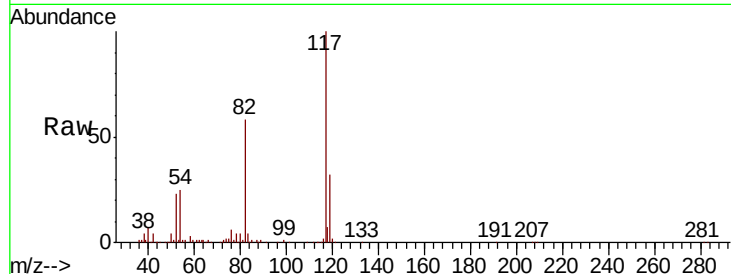
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	571076		
82	58.4		47.0	70.4
119	31.6		25.4	38.2

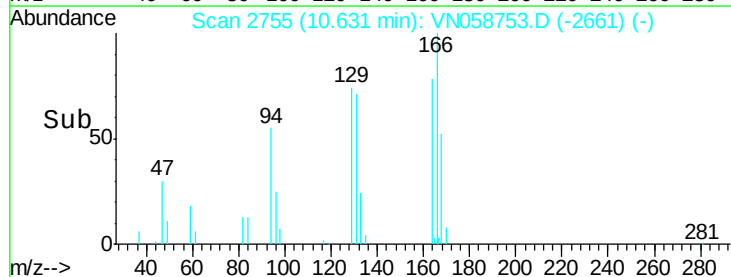
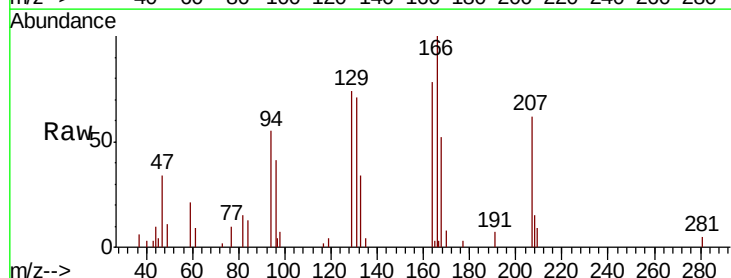
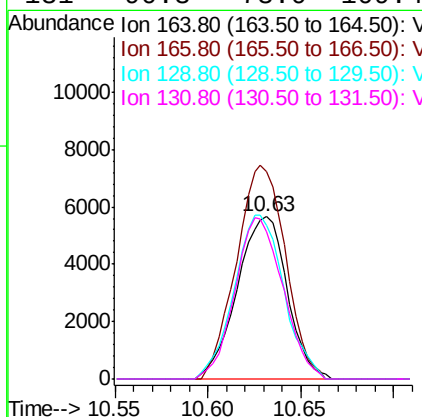
Manual Integrations
APPROVED

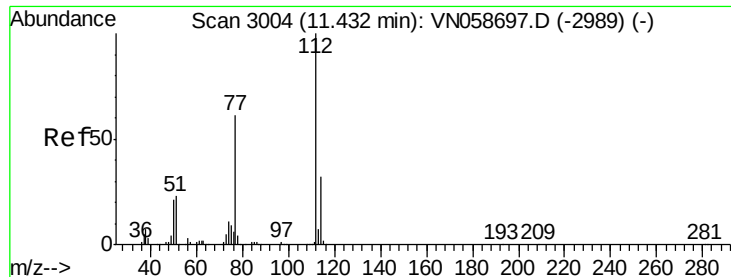
MMDadoda
10/16/2019 12:57:08 AM



#64
Tetrachloroethene
Concen: 2.659 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	10625		
166	127.7		99.3	148.9
129	94.6		75.2	112.8
131	90.3		73.0	109.4





#65

Chlorobenzene

Concen: 2.600 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:112 Resp: 30156

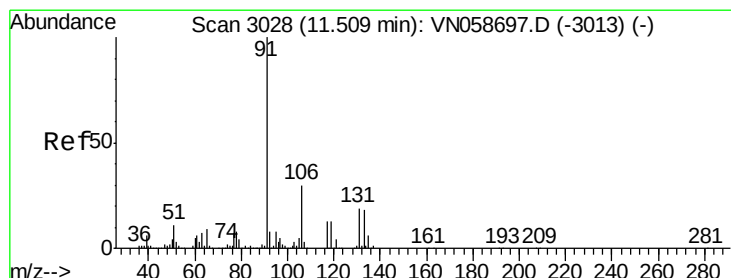
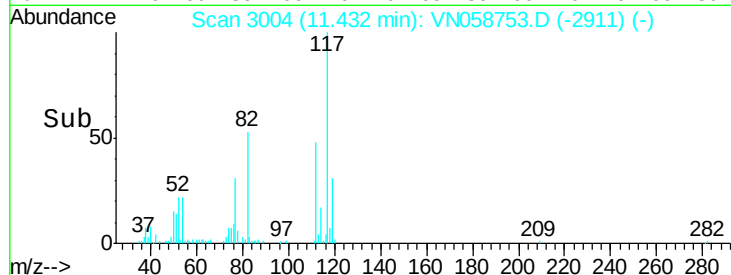
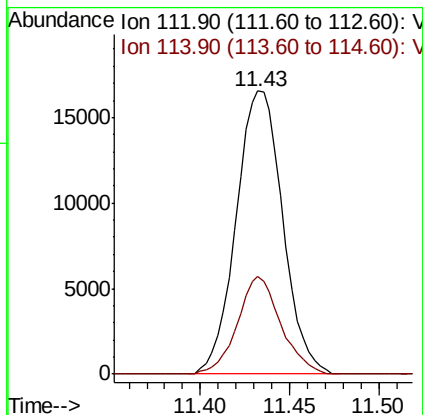
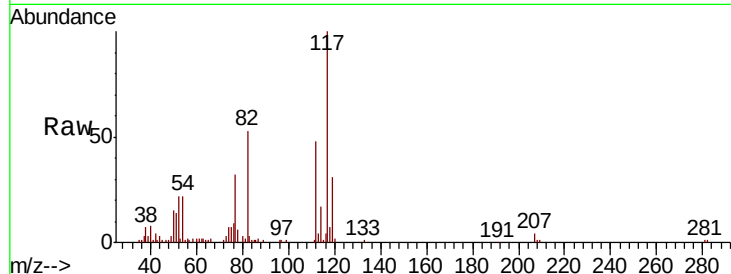
Ion Ratio Lower Upper

112 100

114 34.5 25.2 37.8

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 2.425 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

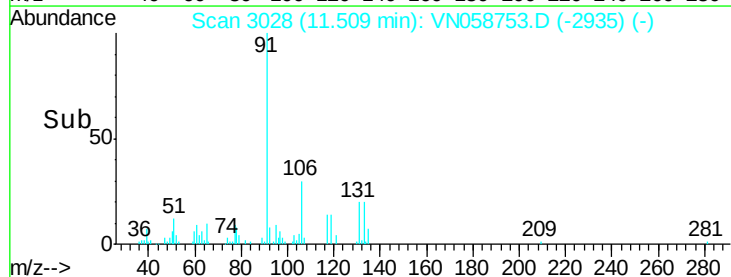
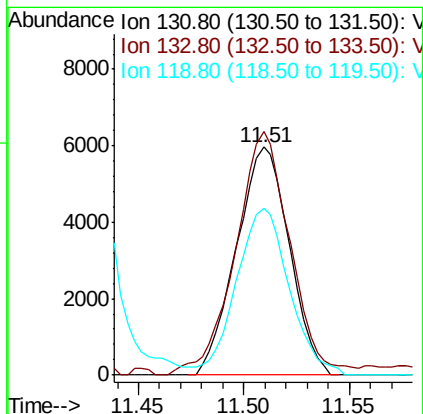
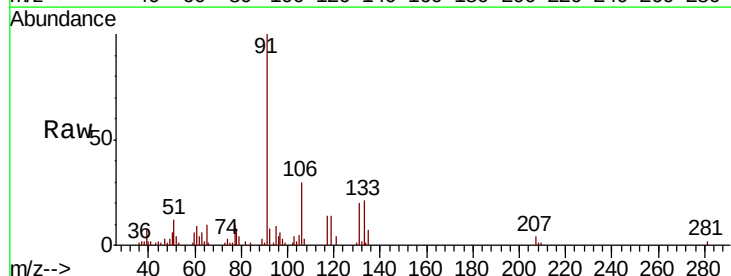
Tgt Ion:131 Resp: 10401

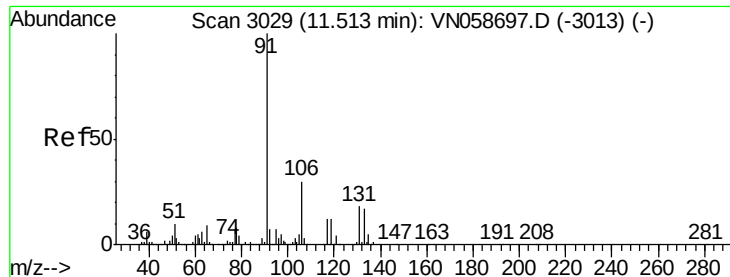
Ion Ratio Lower Upper

131 100

133 110.3 47.6 142.9

119 73.5 33.0 98.9





#67

Ethyl Benzene

Concen: 2.486 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 51395

Ion Ratio Lower Upper

91 100

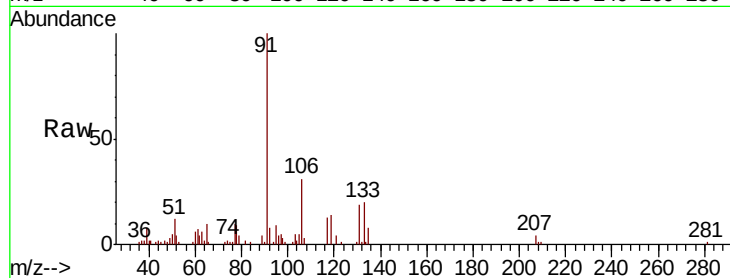
106 31.2 24.1 36.1

Manual Integrations

APPROVED

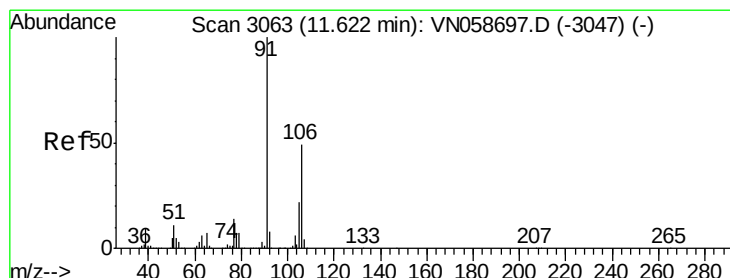
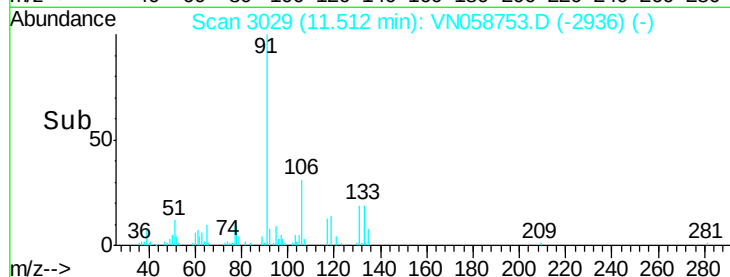
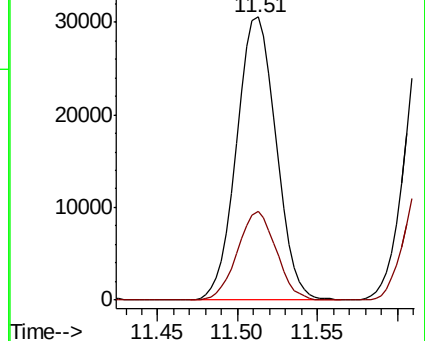
MMDadoda

10/16/2019 12:57:08 AM



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3013) (-)

Ion 106.00 (105.70 to 106.70): VN058697.D (-3013) (-)



#68

m/p-Xylenes

Concen: 4.701 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058753.D

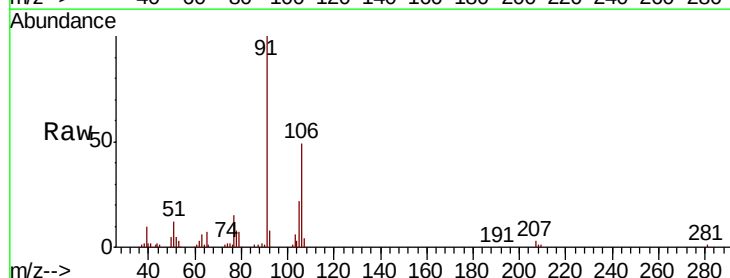
Acq: 14 Oct 2019 16:55

Tgt Ion: 106 Resp: 36471

Ion Ratio Lower Upper

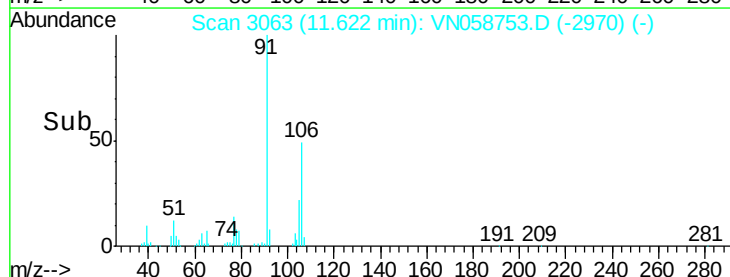
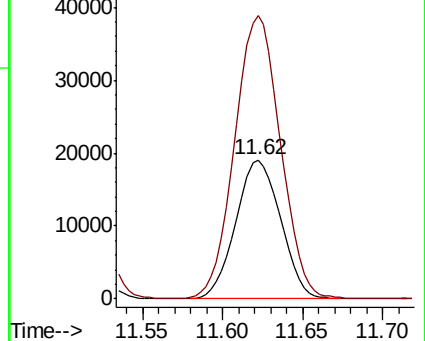
106 100

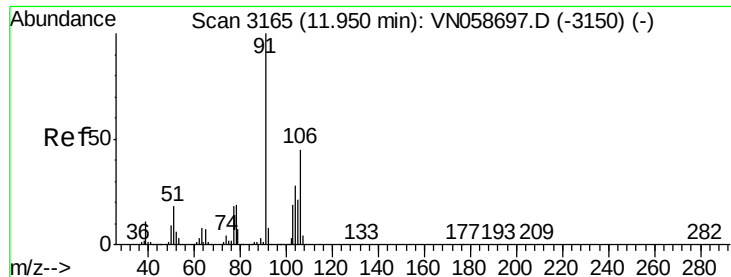
91 208.4 165.7 248.5



Abundance Ion 106.00 (105.70 to 106.70): VN058697.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-3047) (-)





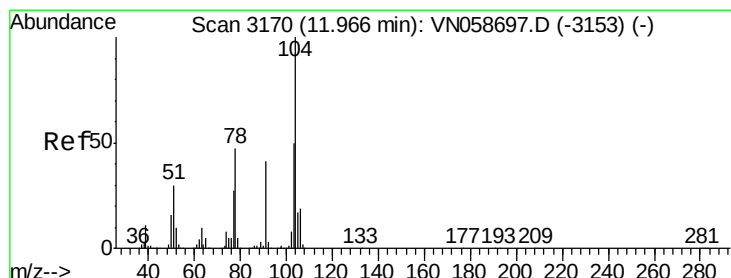
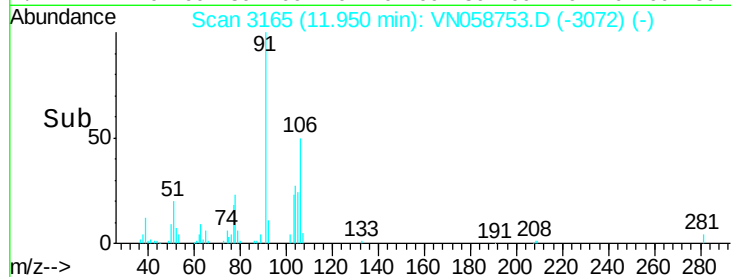
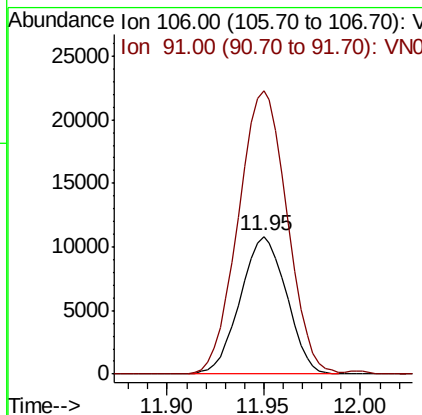
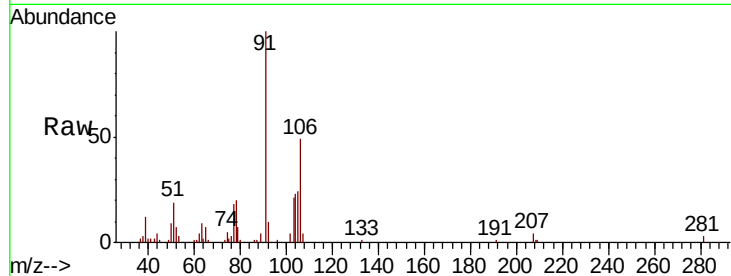
#69
o-Xylene
Concen: 2.396 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	217.2	110.9	332.9	

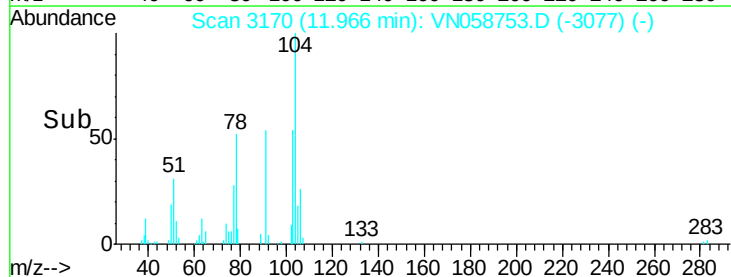
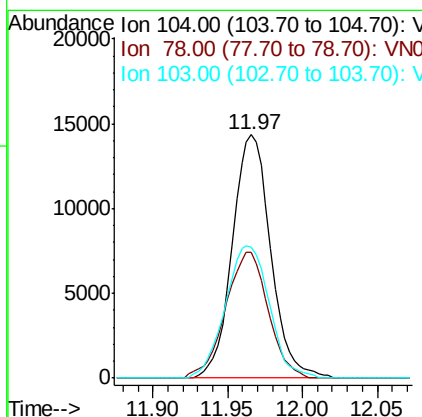
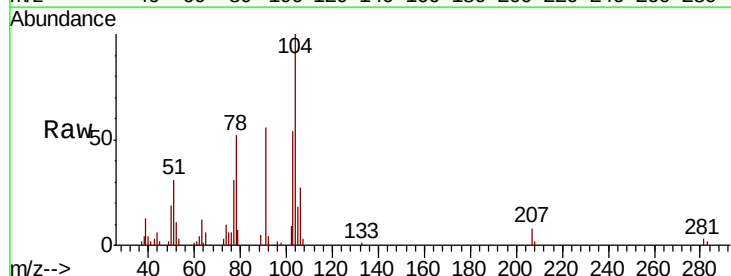
Manual Integrations
APPROVED

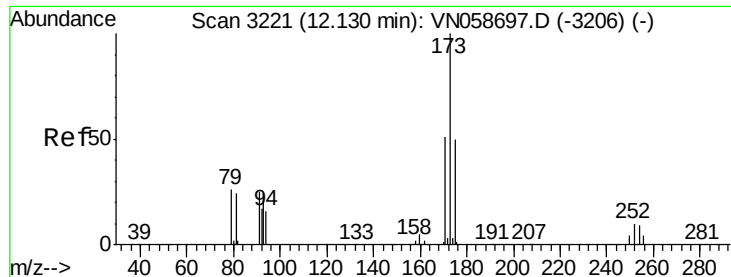
MMDadoda
10/16/2019 12:57:08 AM



#70
Styrene
Concen: 2.082 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	57.2	42.2	63.2	
103	62.2	43.7	65.5	





#71

Bromoform

Concen: 2.389 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

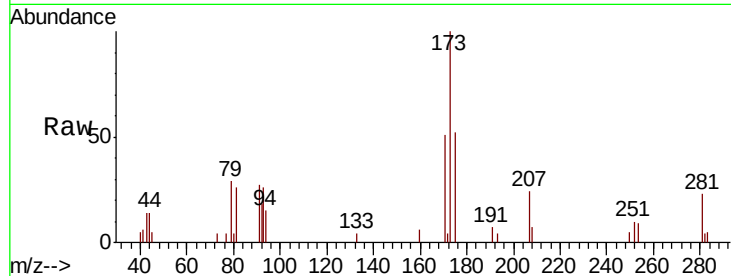
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

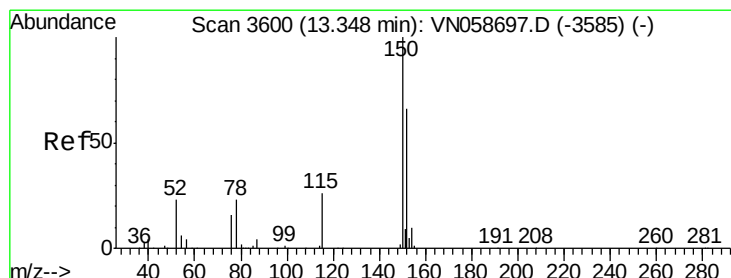
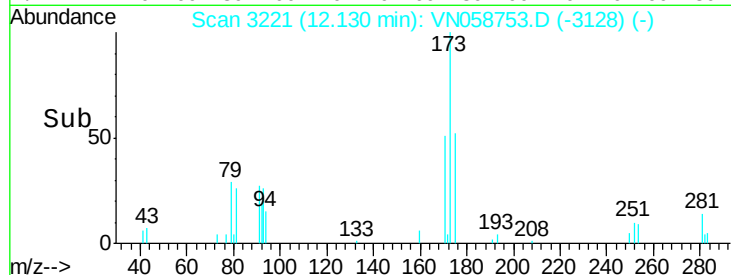
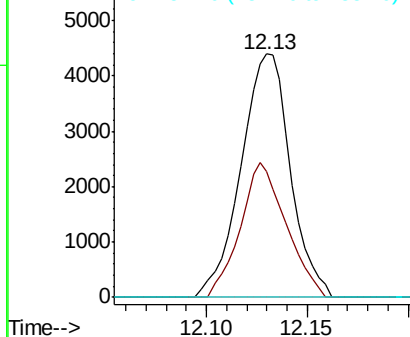
Tot Ion	Ratio	Lower	Upper
173	100		
175	51.3	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

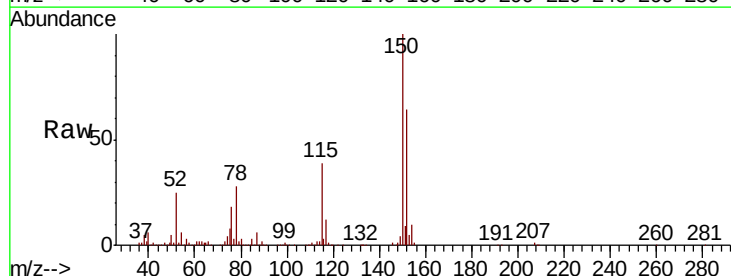
RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

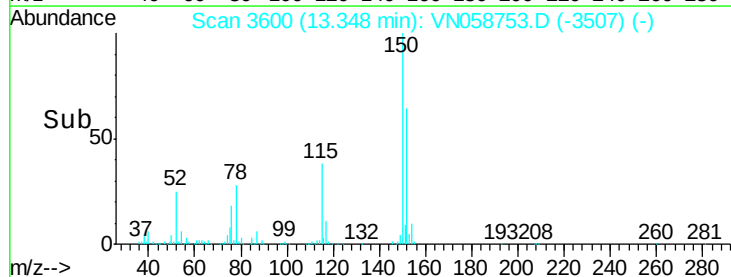
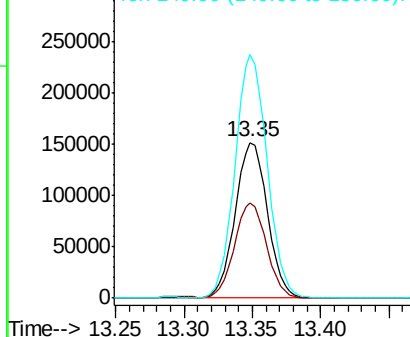
Lab File: VN058753.D

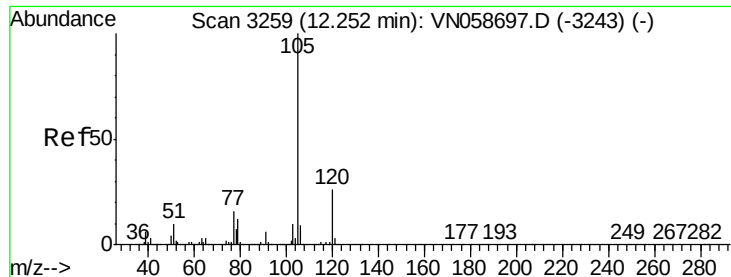
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.4	91.2
150	155.5	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





#73

Isopropylbenzene

Concen: 2.558 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 105 Resp: 46220

Ion Ratio Lower Upper

105 100

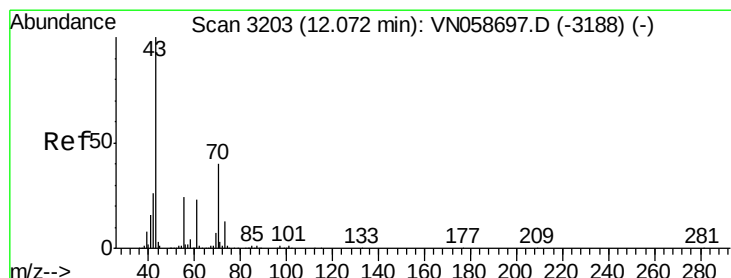
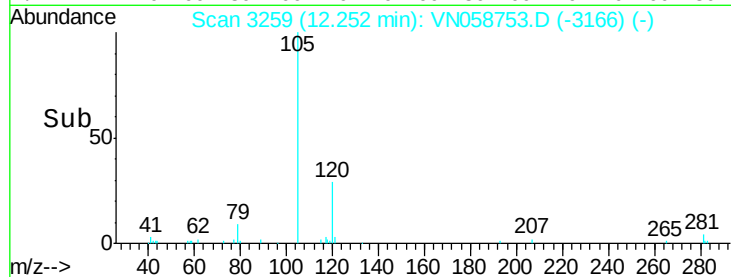
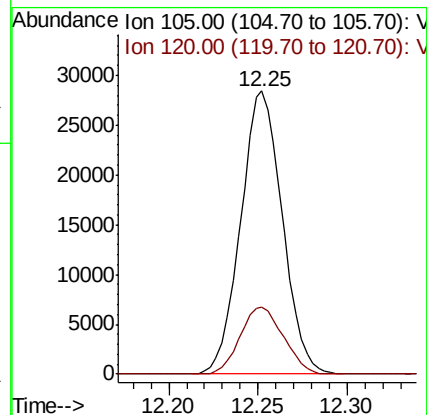
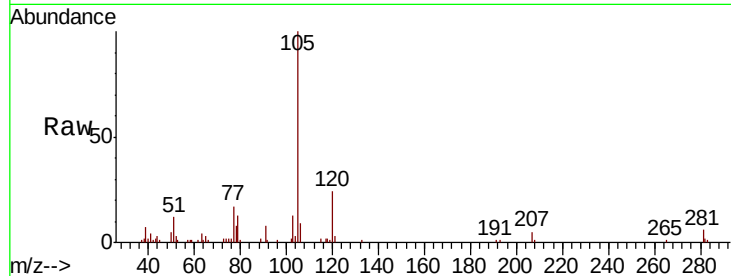
120 24.5 13.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#74

N-ethyl acetate

Concen: 2.287 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion: 43 Resp: 18562

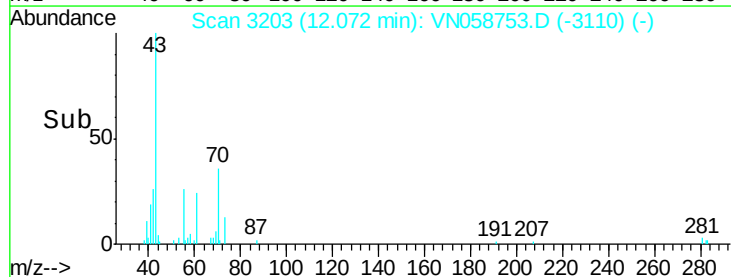
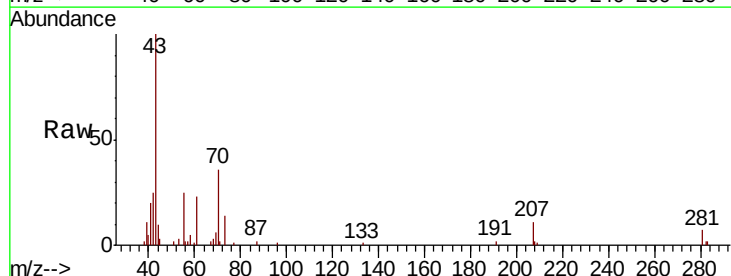
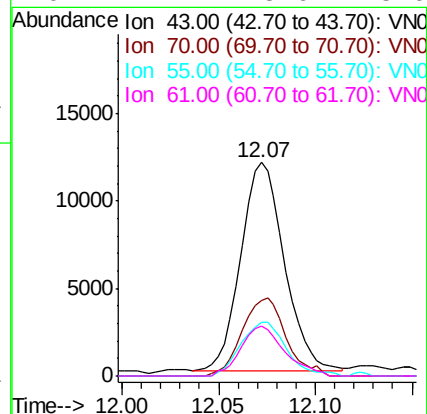
Ion Ratio Lower Upper

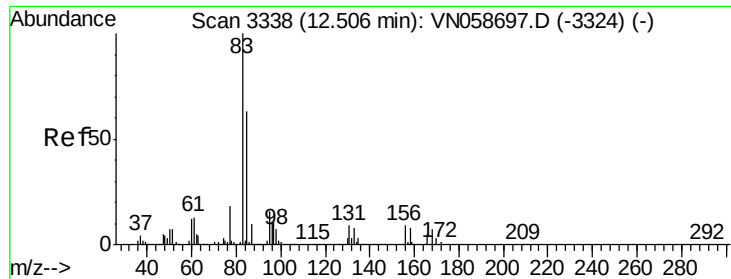
43 100

70 37.7 32.2 48.4

55 27.2 19.6 29.4

61 24.2 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.927 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

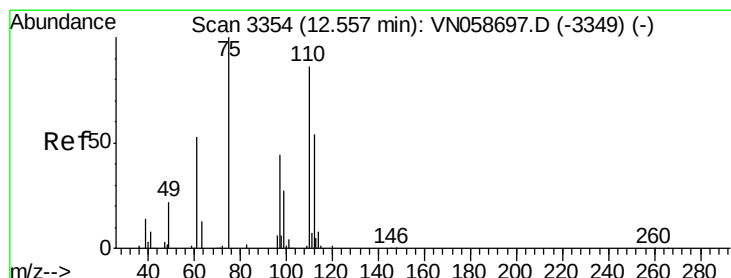
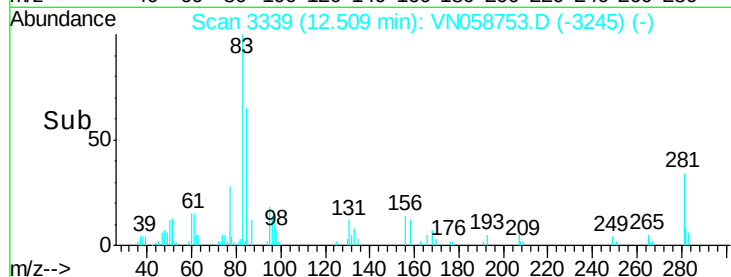
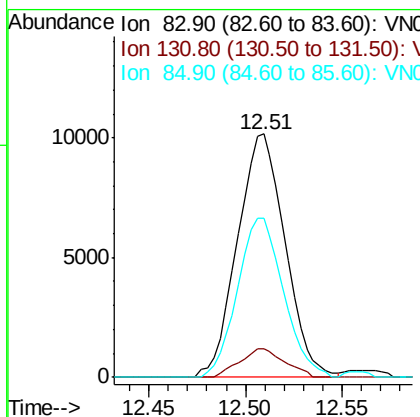
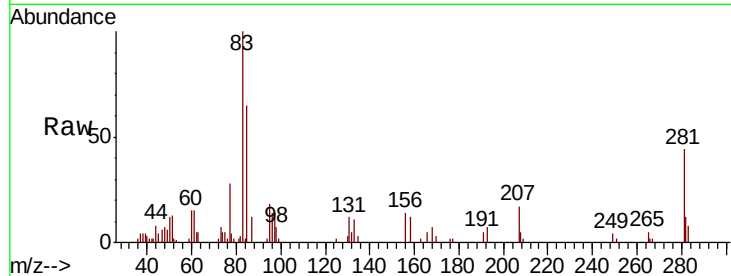
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	83	Resp:	17420
Ion Ratio	Lower	Upper	
83	100		
131	11.0	4.8	14.4
85	63.3	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#76

1,2,3-Trichloropropane

Concen: 2.878 ug/l m

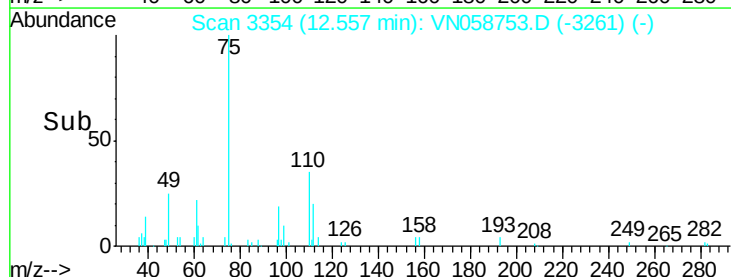
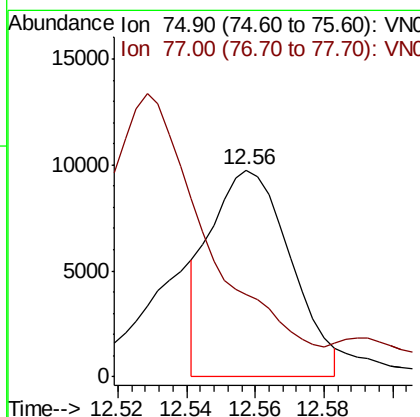
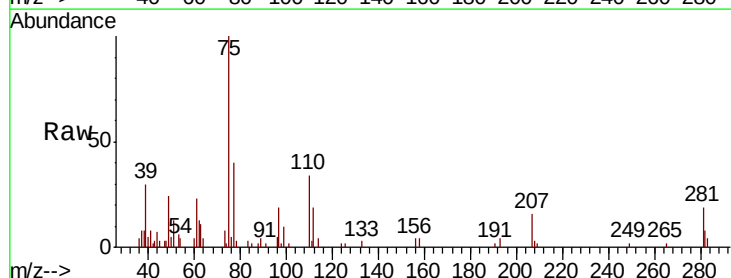
RT: 12.56 min Scan# 3354

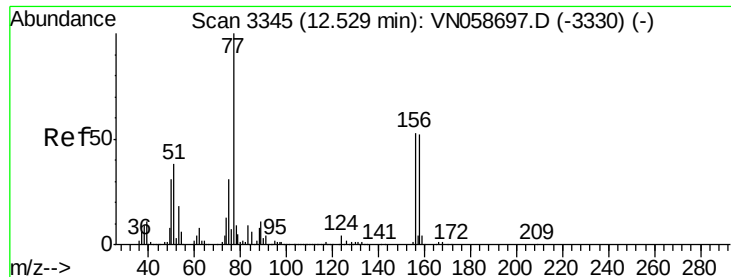
Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	75	Resp:	15751
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.674 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:156 Resp: 11753

Ion Ratio Lower Upper

156 100

77 235.6 115.8 347.3

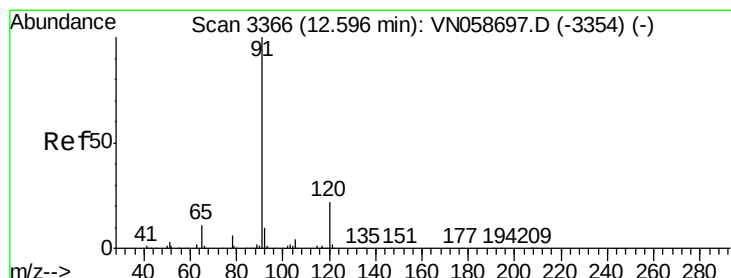
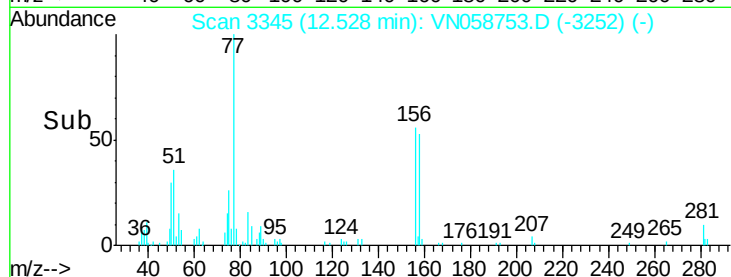
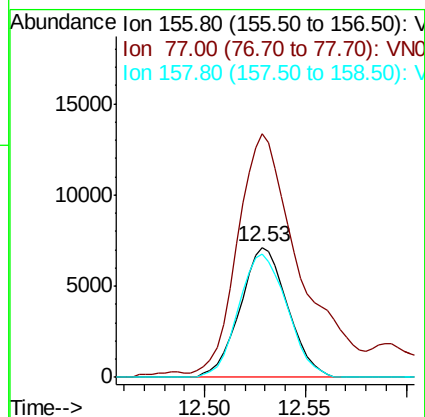
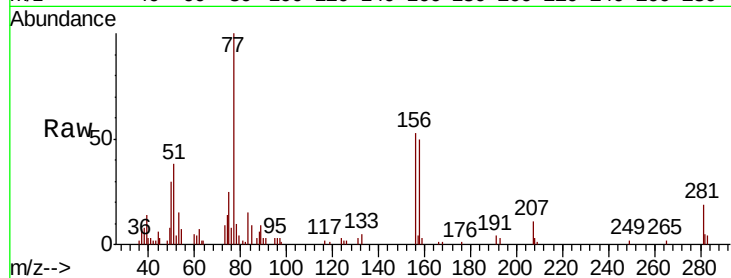
158 96.7 48.9 146.6

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#78

n-propylbenzene

Concen: 2.711 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN058753.D

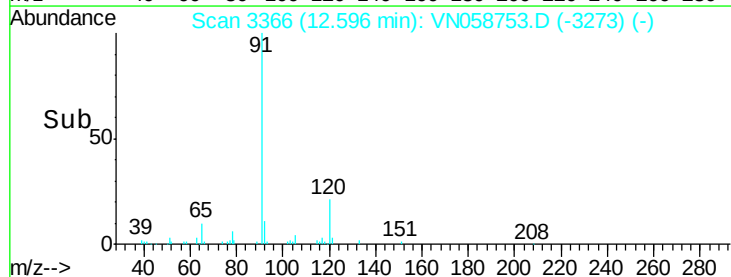
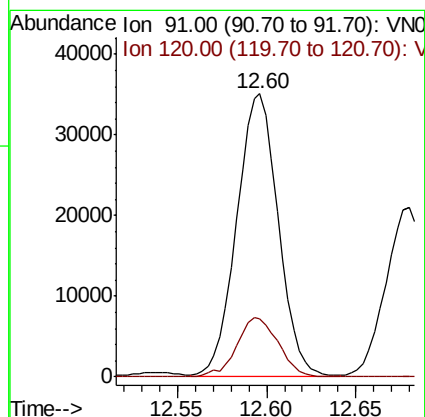
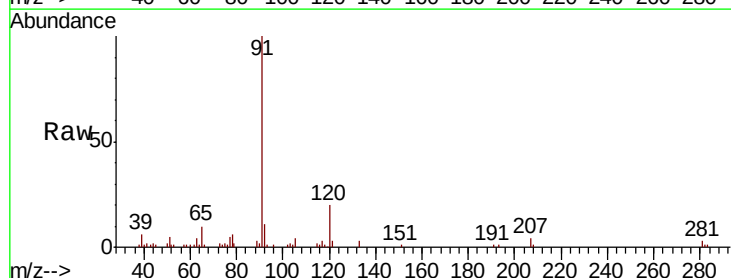
Acq: 14 Oct 2019 16:55

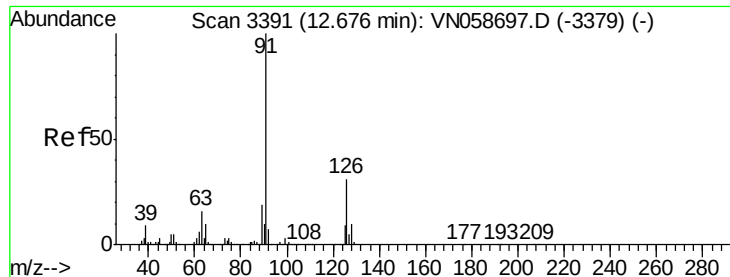
Tgt Ion: 91 Resp: 57082

Ion Ratio Lower Upper

91 100

120 20.8 11.1 33.3





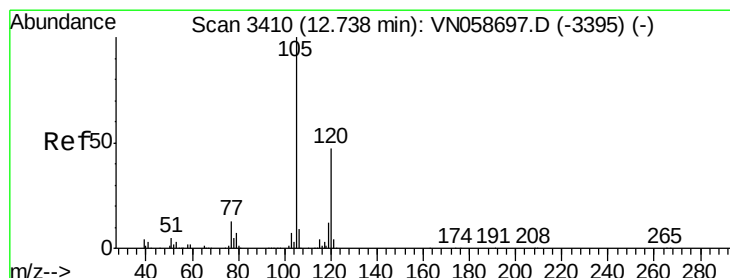
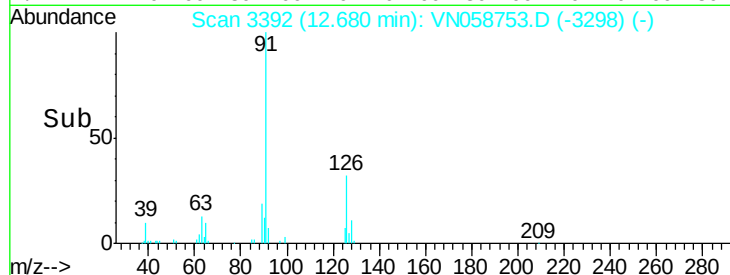
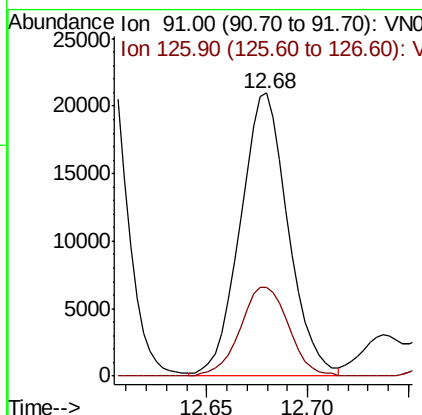
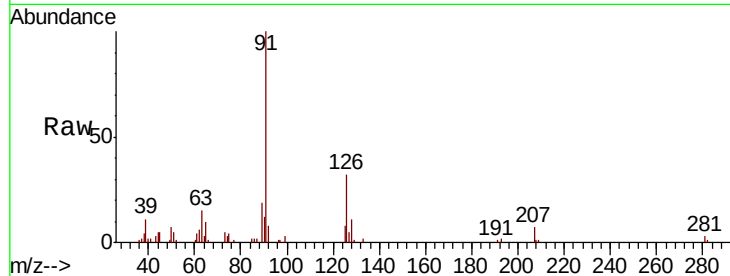
#79
 2-Chlorotoluene
 Concen: 2.666 ug/l
 RT: 12.68 min Scan# 3392
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion: 91 Resp: 34836
 Ion Ratio Lower Upper
 91 100
 126 31.9 16.2 48.5

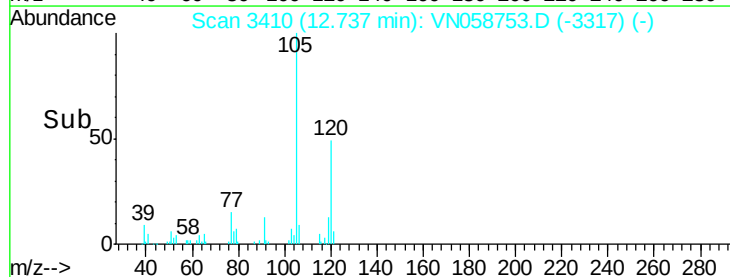
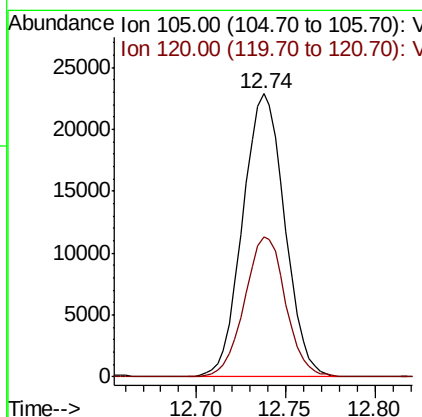
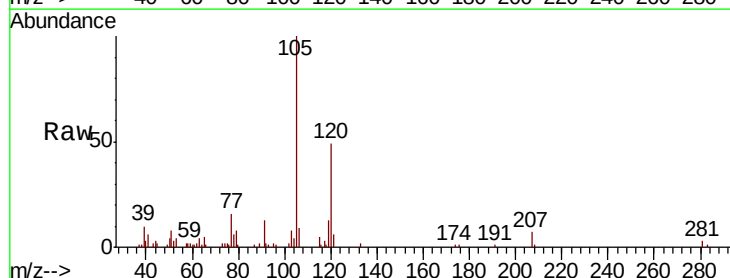
Manual Integrations
 APPROVED

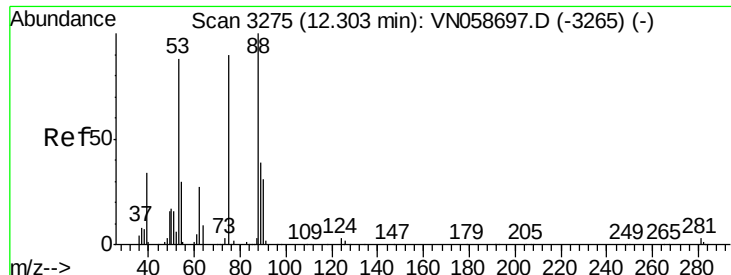
MMDadoda
 10/16/2019 12:57:08 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 2.440 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 105 Resp: 37639
 Ion Ratio Lower Upper
 105 100
 120 48.2 23.4 70.2





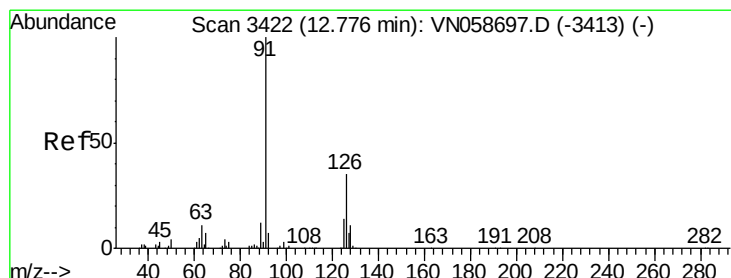
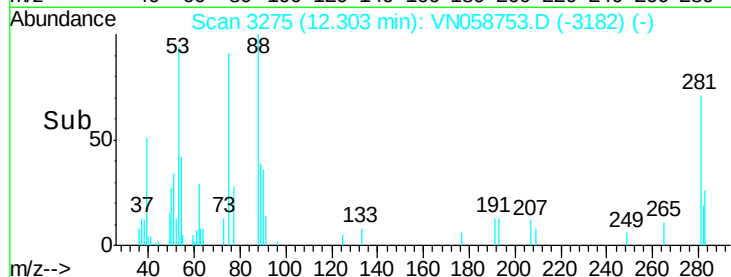
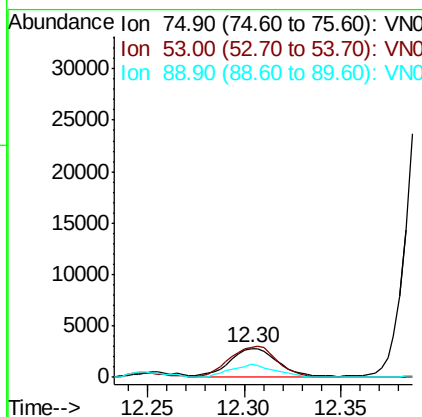
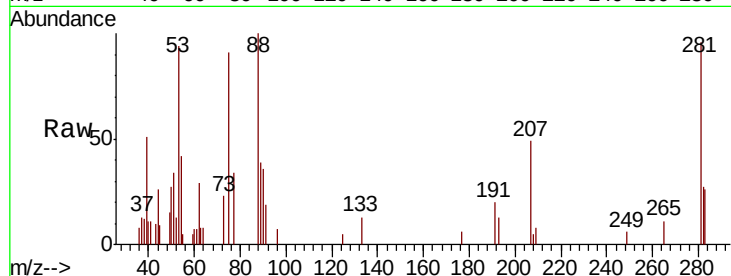
#81
trans-1,4-Dichloro-2-butene
Concen: 2.465 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.6	78.4	117.6
89	38.9	34.9	52.3

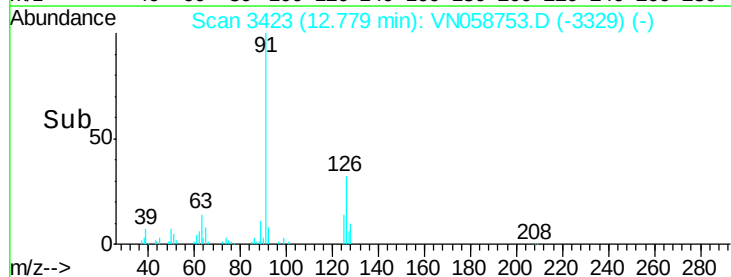
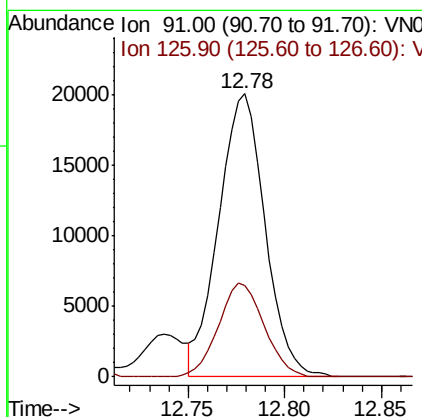
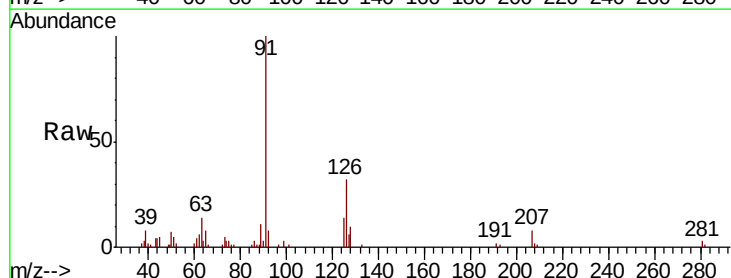
Manual Integrations
APPROVED

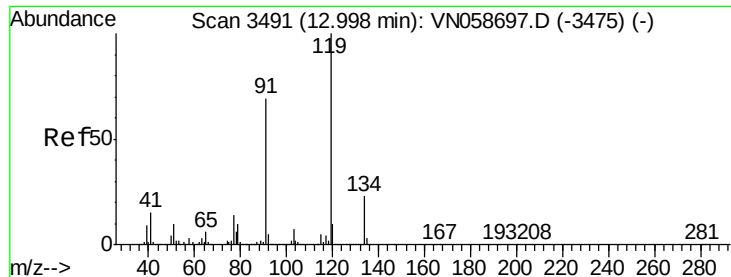
MMDadoda
10/16/2019 12:57:08 AM



#82
4-Chlorotoluene
Concen: 2.494 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.7	15.9	47.6





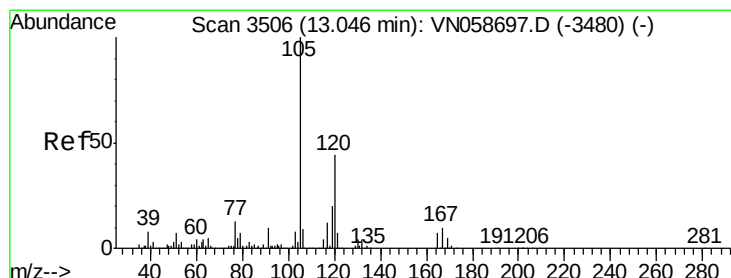
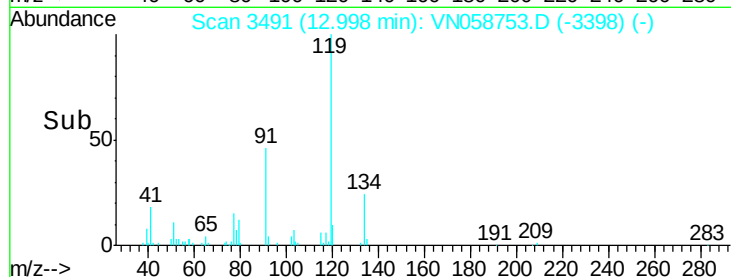
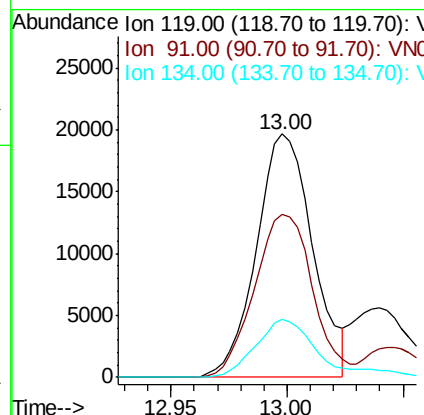
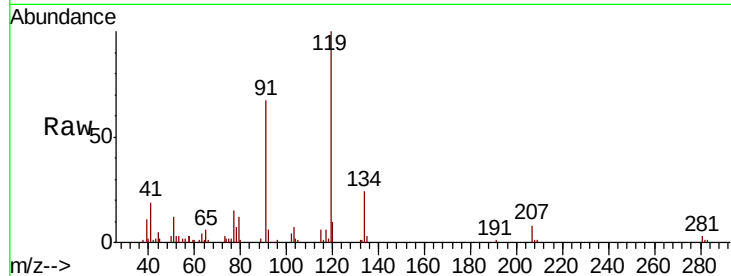
#83
 tert-Butylbenzene
 Concen: 2.511 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.2	33.8	101.3
134	24.7	12.6	37.6

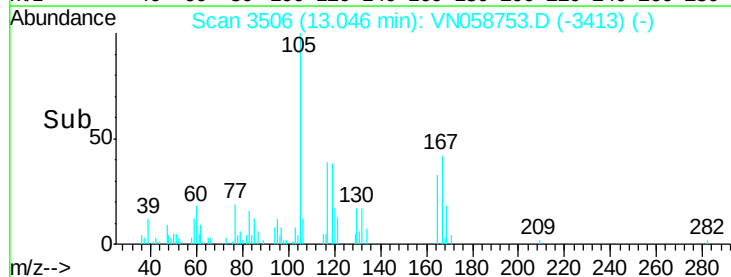
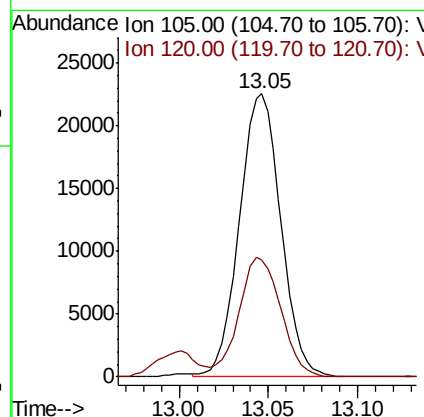
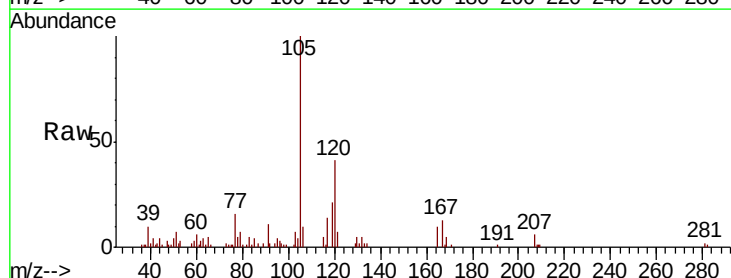
Manual Integrations
 APPROVED

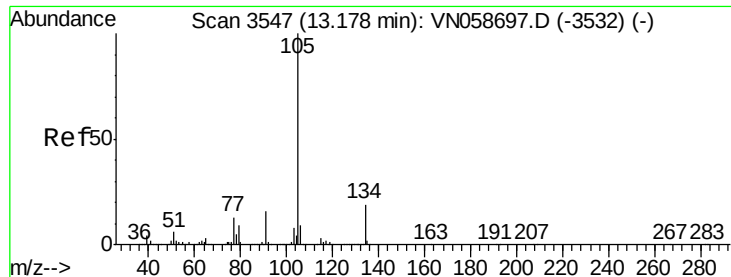
MMDadoda
 10/16/2019 12:57:08 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 2.390 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.9	65.7





#85

sec-Butylbenzene

Concen: 2.479 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 43168

Ion Ratio Lower Upper

105 100

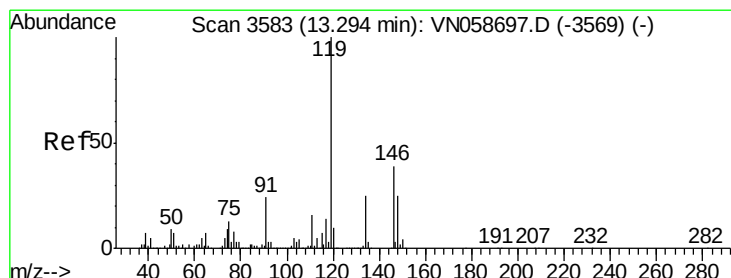
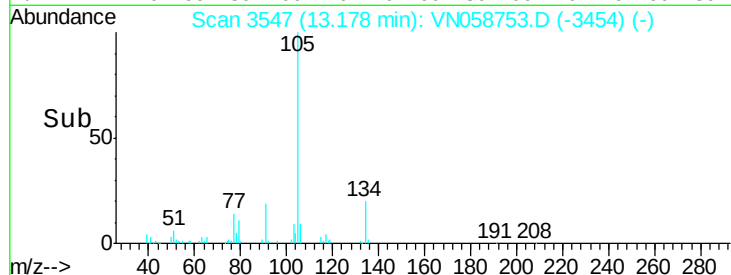
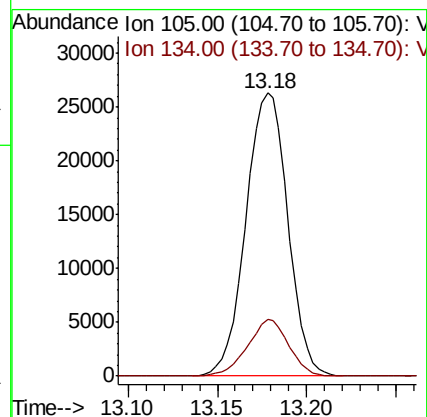
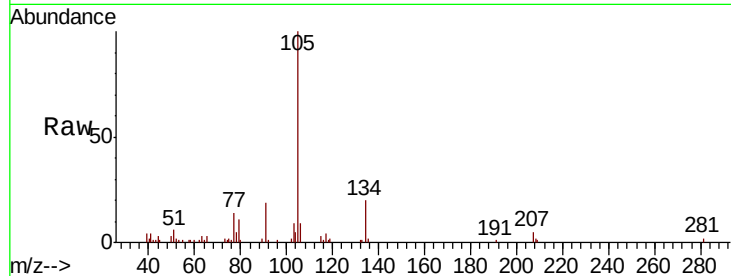
134 19.6 9.7 29.1

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:57:08 AM



#86

p-Isopropyltoluene

Concen: 2.240 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

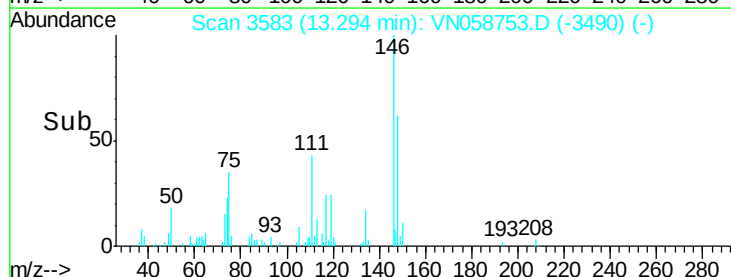
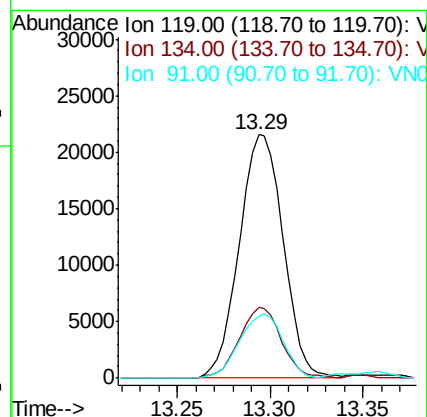
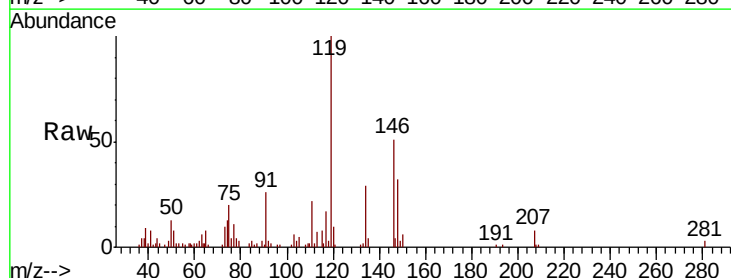
Tgt Ion:119 Resp: 35458

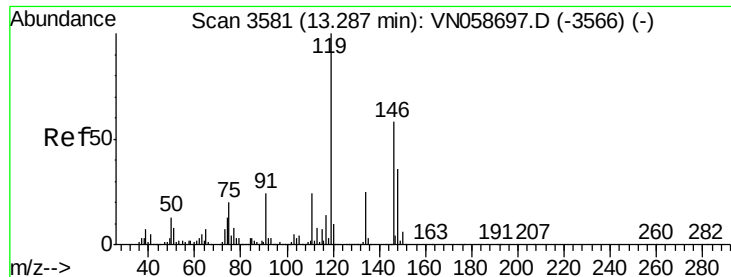
Ion Ratio Lower Upper

119 100

134 27.9 12.7 38.1

91 26.2 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 2.473 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

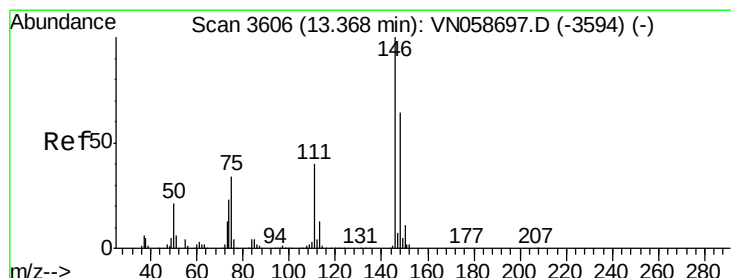
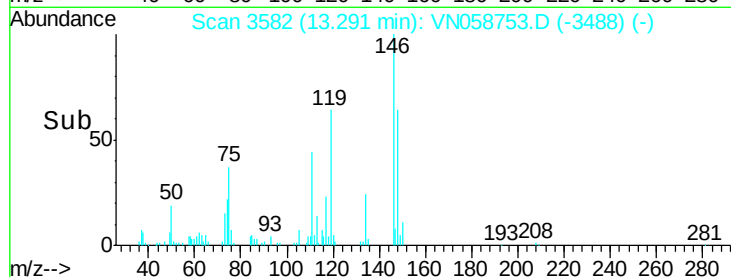
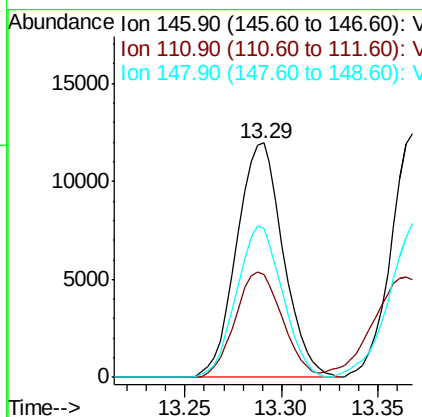
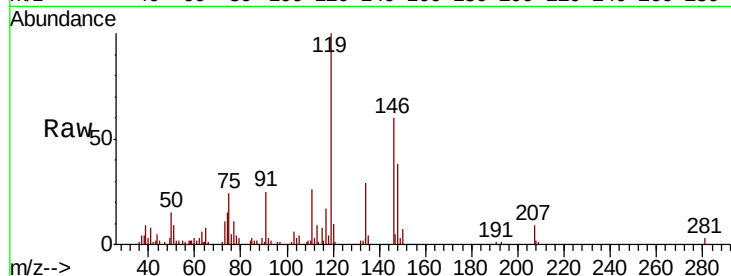
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion:	146	Resp:	20047
Ion Ratio	Lower	Upper	
146	100		
111	45.2	20.5	61.6
148	63.3	31.3	93.9

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#88

1,4-Dichlorobenzene

Concen: 2.532 ug/l

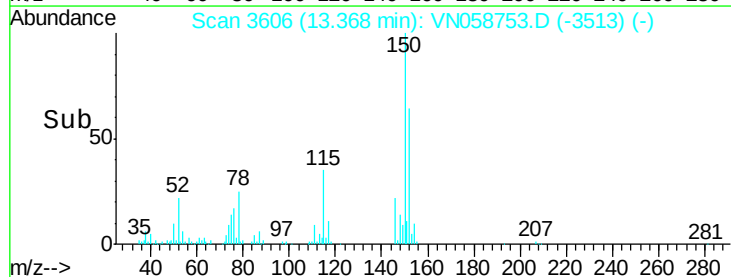
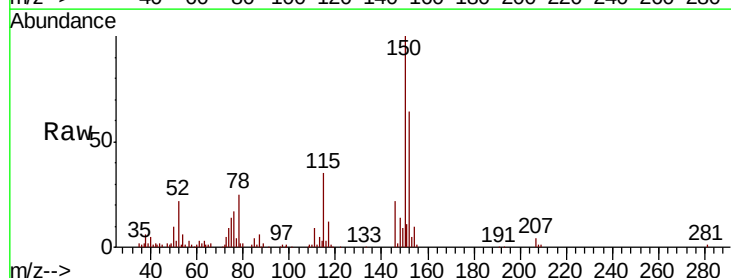
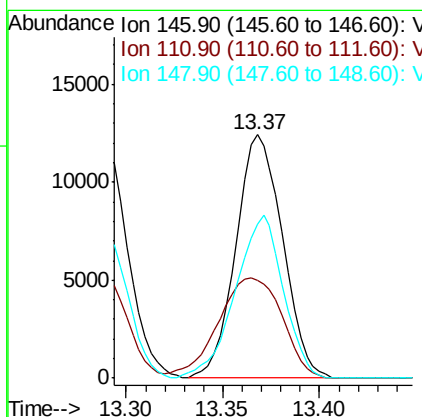
RT: 13.37 min Scan# 3606

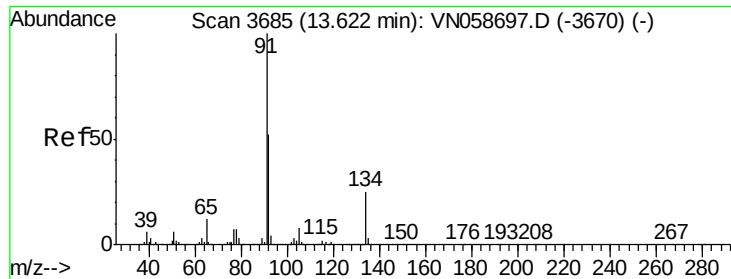
Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion:	146	Resp:	20864
Ion Ratio	Lower	Upper	
146	100		
111	56.7	20.1	60.2
148	68.6	31.9	95.7





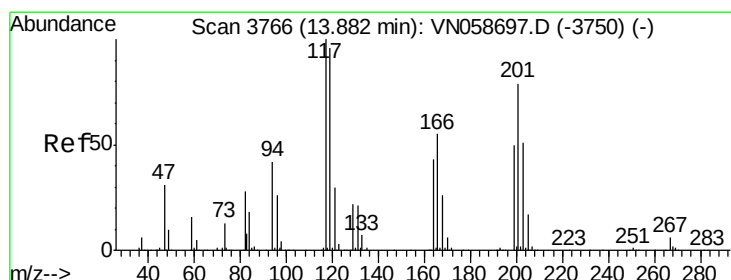
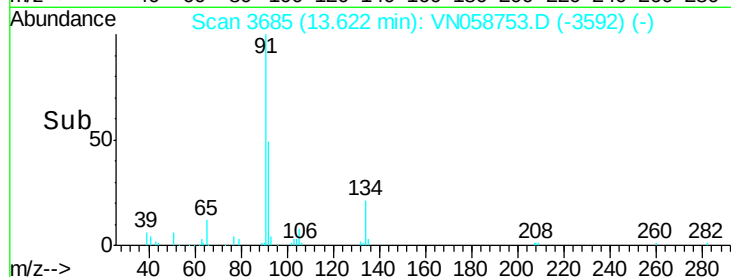
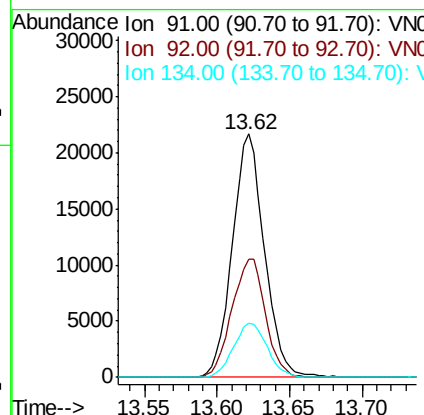
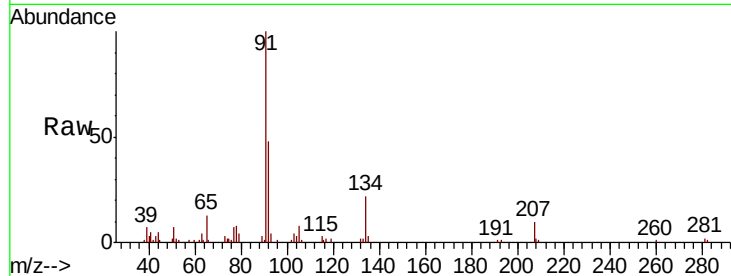
#89
n-Butylbenzene
Concen: 2.270 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.5	26.0	78.0
134	23.3	12.2	36.6

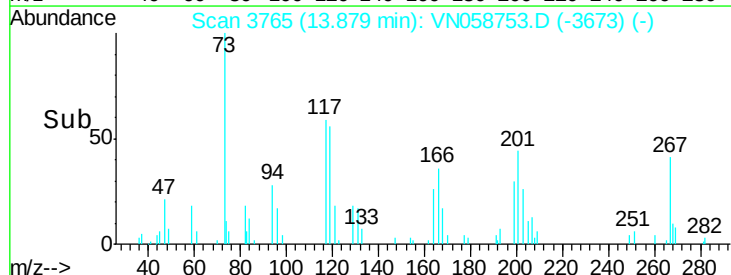
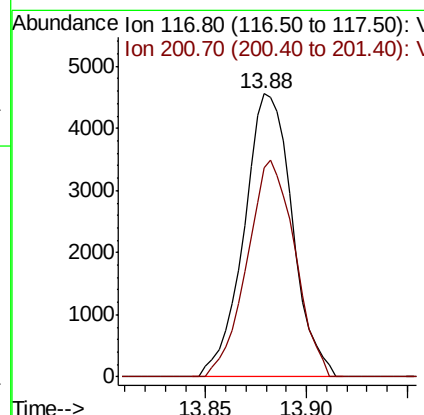
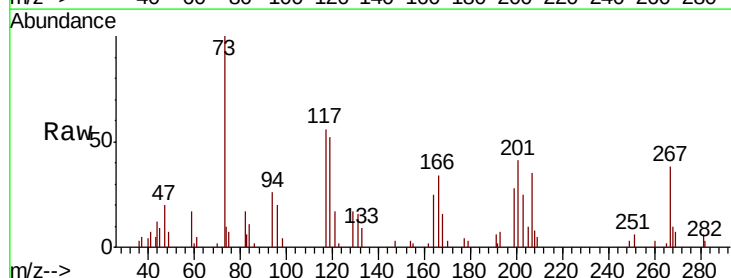
Manual Integrations
APPROVED

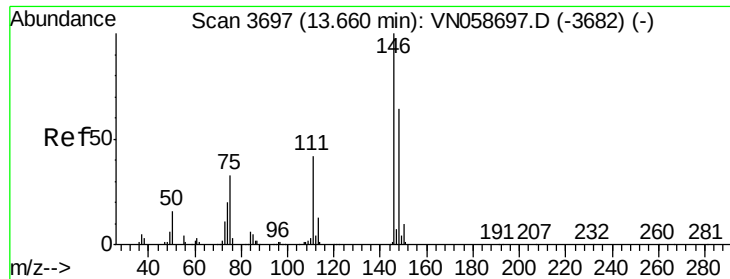
MMDadoda
10/16/2019 12:57:08 AM



#90
Hexachloroethane
Concen: 2.699 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.6	39.6	118.7





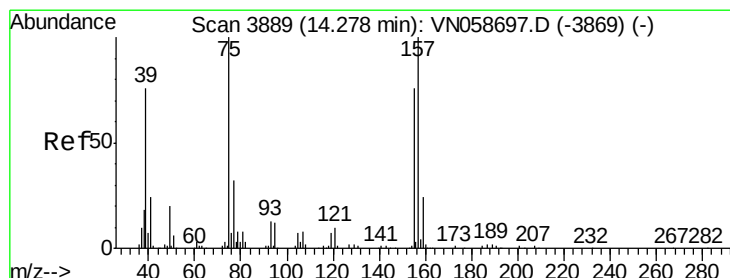
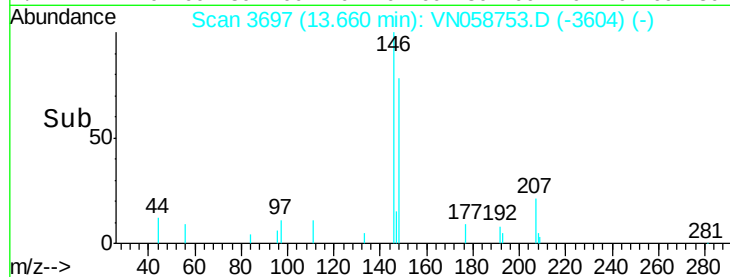
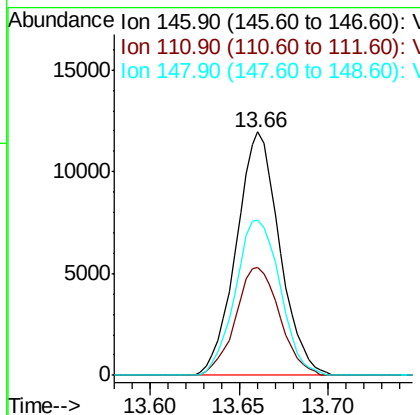
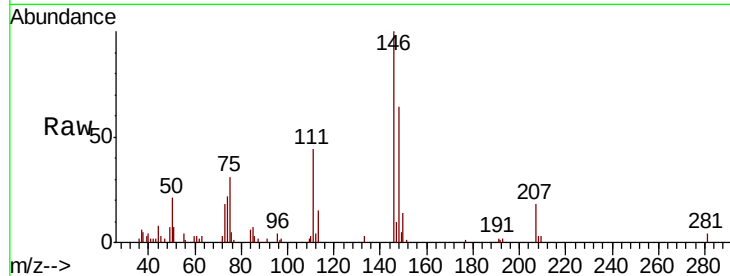
#91
 1,2-Dichlorobenzene
 Concen: 2.554 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.1	63.4
148	66.1	31.8	95.3

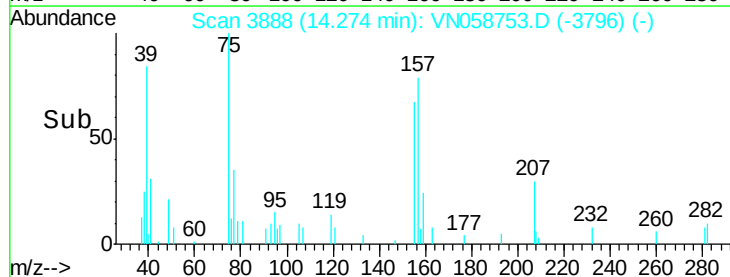
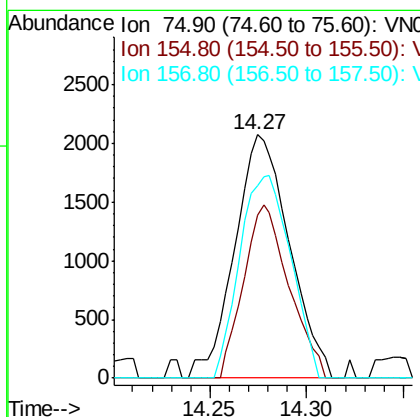
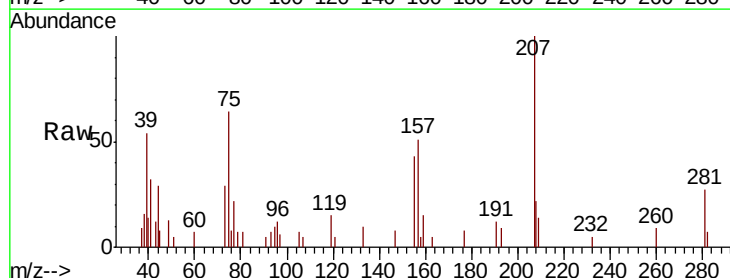
Manual Integrations
 APPROVED

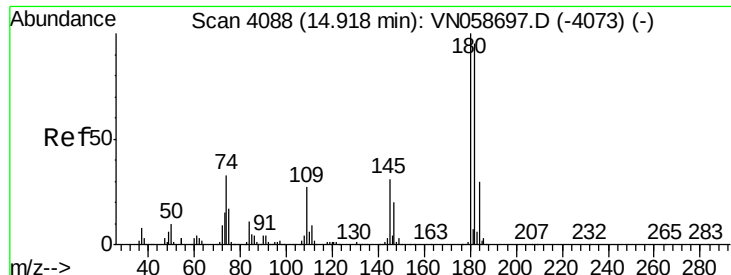
MMDadoda
 10/16/2019 12:57:08 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.924 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	59.2	37.9	113.6
157	77.7	49.4	148.2





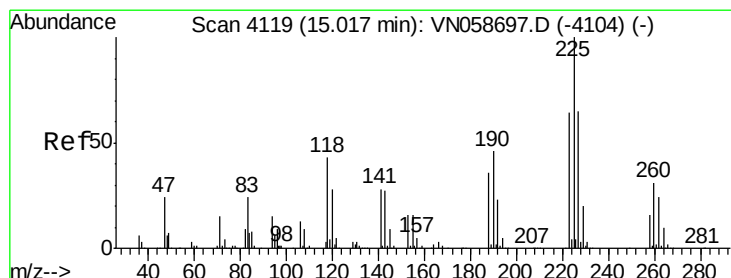
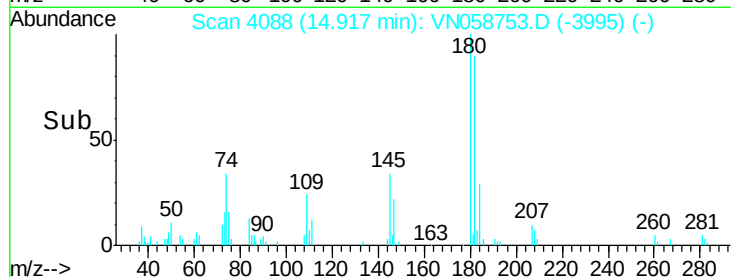
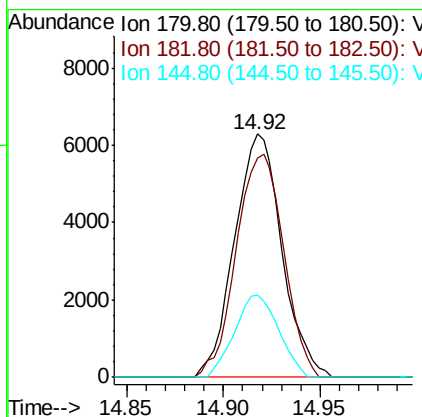
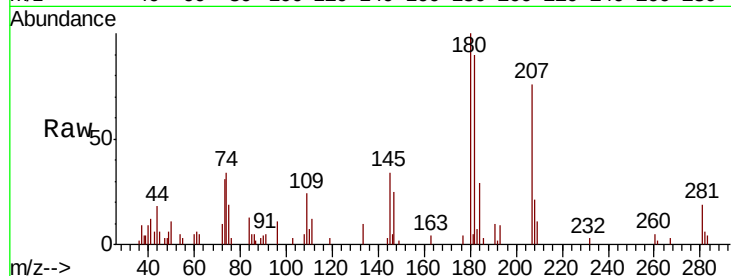
#93
 1,2,4-Trichlorobenzene
 Concen: 2.221 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.7	47.4	142.2
145	31.4	15.4	46.2

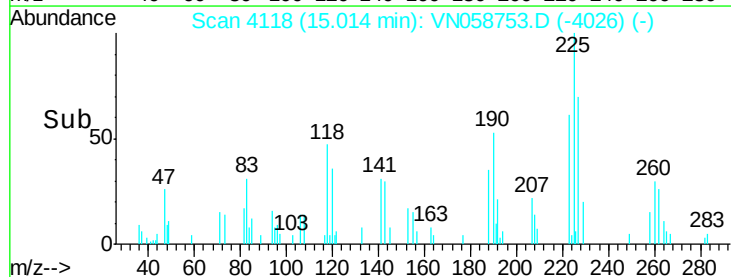
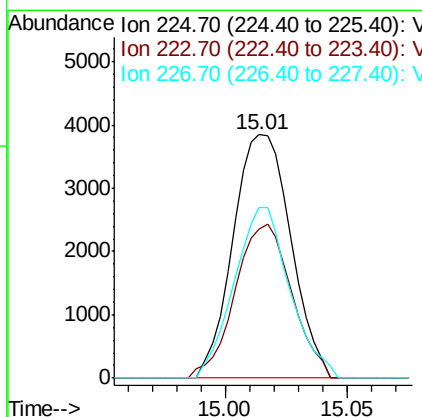
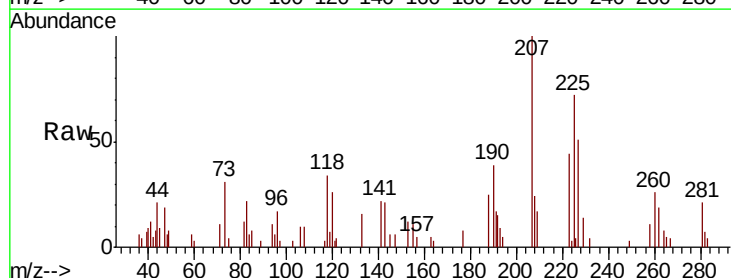
Manual Integrations
 APPROVED

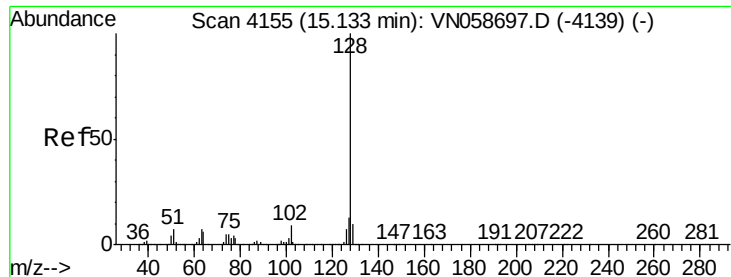
MMDadoda
 10/16/2019 12:57:08 AM



#94
 Hexachlorobutadiene
 Concen: 2.489 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	32.3	96.8
227	67.5	32.4	97.0





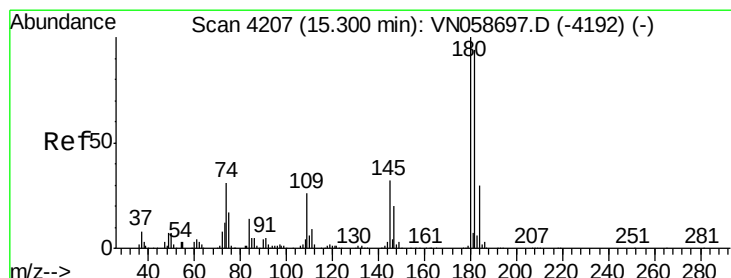
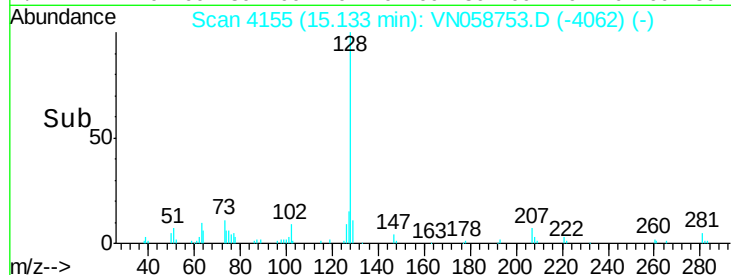
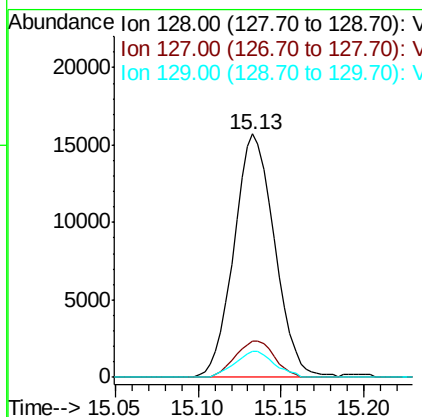
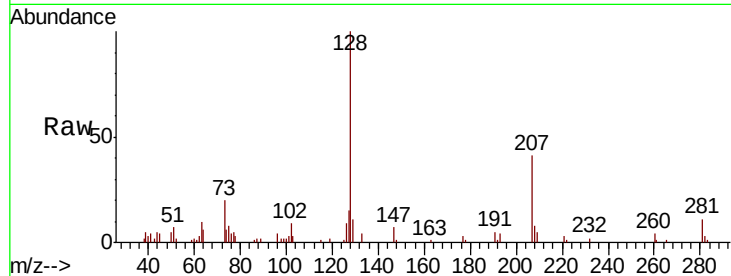
#95
Naphthalene
Concen: 1.930 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.2	15.4
129	10.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:08 AM



#96
1,2,3-Trichlorobenzene
Concen: 2.083 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.3	142.0
145	34.3	16.2	48.6

