

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056585.D
 Acq On : 3 Jul 2019 14:11
 Operator : JC/SP
 Sample : K3591-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:20 AM

Quant Time: Jul 03 22:31:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	47744	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	265954	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	224622	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101627	30.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.93%
60) 4-Bromofluorobenzene	12.40	95	94829	27.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.57%
63) Toluene-d8	10.09	98	323459	30.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	11407	4.764	ug/l 99
3) Chloromethane	2.06	50	18181	5.232	ug/l 97
4) Vinyl Chloride	2.18	62	16411	5.018	ug/l 99
5) Bromomethane	2.53	94	11894m	6.816	ug/l
6) Chloroethane	2.68	64	9422	5.202	ug/l 96
7) Trichlorofluoromethane	3.00	101	21617	5.149	ug/l 94
8) Diethyl Ether	3.41	74	9409	5.284	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.75	101	13957	5.247	ug/l 91
10) 1,1-Dichloroethene	3.73	96	13498	5.172	ug/l 97
11) Methyl Iodide	3.95	142	17414	4.666	ug/l 100
12) Methyl Acetate	4.33	43	22695	6.448	ug/l 99
13) Acrolein	3.61	56	11451	33.322	ug/l 93
14) Acrylonitrile	4.99	53	39738	25.714	ug/l 98
15) Acetone	3.82	58	11558	26.805	ug/l 86
16) Carbon Disulfide	4.05	76	29559	4.710	ug/l 100
17) Allyl chloride	4.32	41	22255	4.873	ug/l 98
18) Methylene Chloride	4.55	84	16834	5.456	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	14678	5.185	ug/l 98
20) Diisopropyl ether	5.95	45	49231	5.218	ug/l 91
21) 1,1-Dichloroethane	5.85	63	27623	5.190	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	16979	5.101	ug/l # 81
23) tert-Butyl Alcohol	4.80	59	20075m	34.726	ug/l
24) Methyl tert-Butyl Ether	5.05	73	44449	5.149	ug/l # 76
25) Chloroform	7.37	83	27711	5.312	ug/l 98
26) Cyclohexane	7.65	56	25004	5.100	ug/l # 91
29) 1,1-Dichloropropene	7.79	75	20086	5.115	ug/l 96
30) 2-Butanone	6.84	43	53595	24.617	ug/l 97
31) 2,2-Dichloropropane	6.83	77	17669	4.679	ug/l # 75
32) 1,1,1-Trichloroethane	7.57	97	20838	4.977	ug/l 99
33) Carbon Tetrachloride	7.77	117	16775	4.726	ug/l 96
34) Benzene	8.04	78	63805	5.196	ug/l # 71
35) Methacrylonitrile	7.18	41	10255	5.304	ug/l 94
36) 1,2-Dichloroethane	8.13	62	21760	5.452	ug/l # 83
37) Trichloroethene	8.84	130	16501	5.152	ug/l 98
38) Methylcyclohexane	9.08	83	23631	4.801	ug/l 96
39) 1,2-Dichloropropane	9.12	63	17225	5.210	ug/l 97
40) Dibromomethane	9.21	93	10175	4.979	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	17769	4.692	ug/l	94
42) Vinyl Acetate	5.90	43	180440	23.276	ug/l	96
43) Ethyl Acetate	6.94	43	21541	5.115	ug/l #	83
44) Isopropyl Acetate	8.17	43	32033	4.875	ug/l	100
45) 1,4-Dioxane	9.20	88	6409	99.683	ug/l #	85
46) Methyl methacrylate	9.20	41	16498	5.110	ug/l	95
47) n-amyl Acetate	12.07	43	23267	4.260	ug/l	93
48) t-1,3-Dichloropropene	10.38	75	17116	4.217	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	20606	4.401	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	15397	5.115	ug/l	93
51) Ethyl methacrylate	10.43	69	22536	4.753	ug/l	93
52) 1,3-Dichloropropane	10.71	76	27466	5.369	ug/l	98
53) Dibromochloromethane	10.90	129	13230	4.484	ug/l	97
54) 1,2-Dibromoethane	11.00	107	14852	4.735	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	55990	23.174	ug/l	97
56) Bromoform	12.13	173	8695	4.055	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	109252	27.052	ug/l	95
59) 2-Hexanone	10.75	43	75200	25.093	ug/l	98
61) Tetrachloroethene	10.63	164	15509	5.501	ug/l	98
62) Toluene	10.16	91	66860	5.333	ug/l	99
64) Chlorobenzene	11.43	112	39114	5.179	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	13700	5.037	ug/l	98
66) Ethyl Benzene	11.51	91	69299	5.098	ug/l	100
67) m/p-Xylenes	11.62	106	50572	10.081	ug/l	95
68) o-Xylene	11.95	106	25811	5.203	ug/l	100
69) Styrene	11.96	104	37784	4.578	ug/l	96
70) Isopropylbenzene	12.25	105	65828	5.086	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	22363	5.226	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	17870m	4.966	ug/l	
73) Bromobenzene	12.53	156	15963	4.782	ug/l	87
74) n-propylbenzene	12.59	91	69797	4.753	ug/l	96
75) 2-Chlorotoluene	12.67	91	43714	4.978	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	53988	4.926	ug/l	95
77) t-1,4-Dichloro-2-butene	12.30	75	4096	3.554	ug/l	77
78) 4-Chlorotoluene	12.77	91	40114	4.697	ug/l	96
79) tert-butylbenzene	12.99	119	46953	5.014	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	51944	4.798	ug/l	99
81) sec-Butylbenzene	13.17	105	58937	4.746	ug/l	98
82) p-Isopropyltoluene	13.29	119	51477	4.611	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	25378	4.578	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	22186	4.149	ug/l	97
85) n-Butylbenzene	13.61	91	38812	4.136	ug/l	97
86) Hexachloroethane	13.87	117	6882	4.088	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	25663	4.559	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.26	75	3233	4.216	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	10411	3.346	ug/l	99
90) Hexachlorobutadiene	15.01	225	9317	4.819	ug/l	98
91) Naphthalene	15.13	128	27940	3.200	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	11891	3.640	ug/l	96

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LOQ-WATER-02-QT3-2019

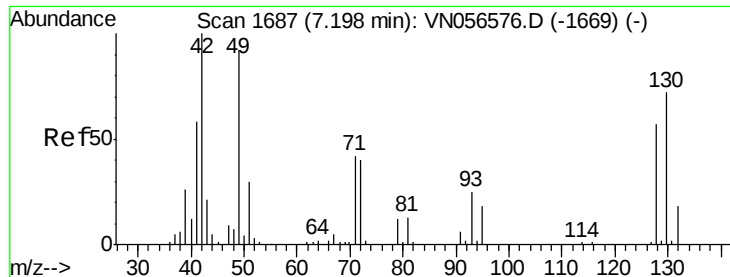
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



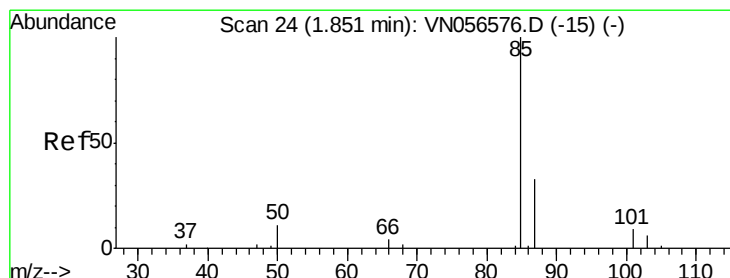
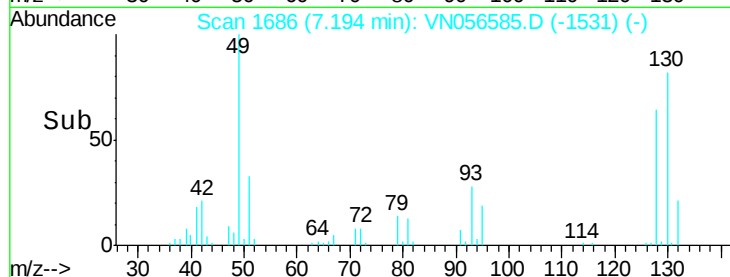
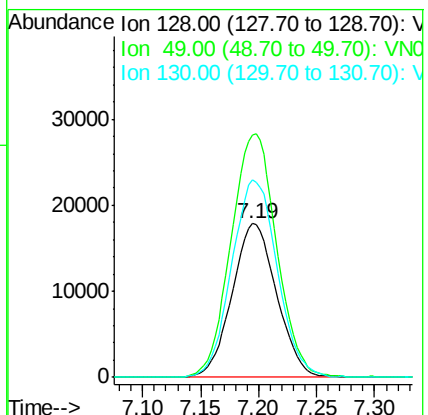
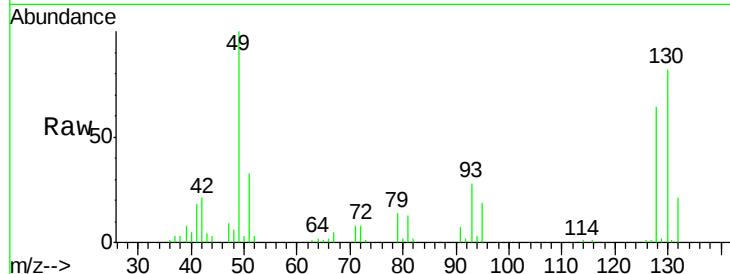
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
49	162.2	0.0	355.8
130	131.5	0.0	326.3

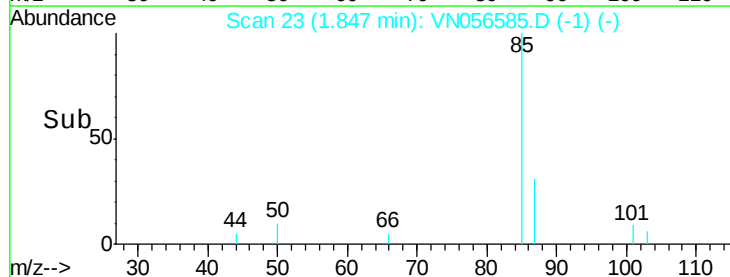
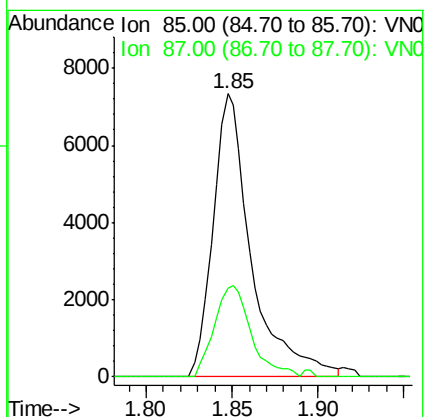
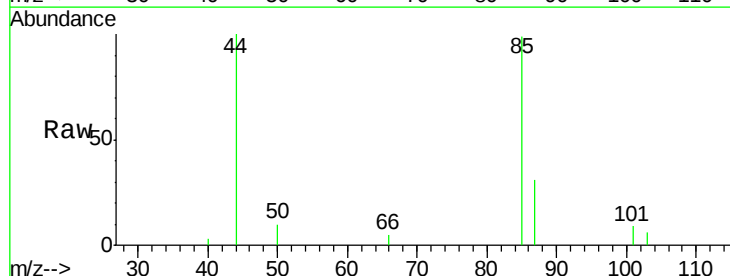
Manual Integrations
APPROVED

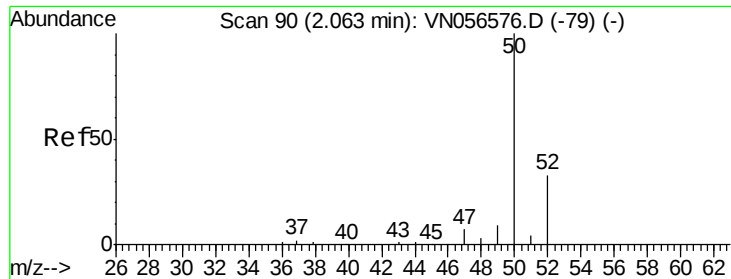
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#2
Dichlorodifluoromethane
Concen: 4.764 ug/l
RT: 1.85 min Scan# 23
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.9	47.7





#3

Chloromethane

Concen: 5.232 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 50 Resp: 18181

Ion Ratio Lower Upper

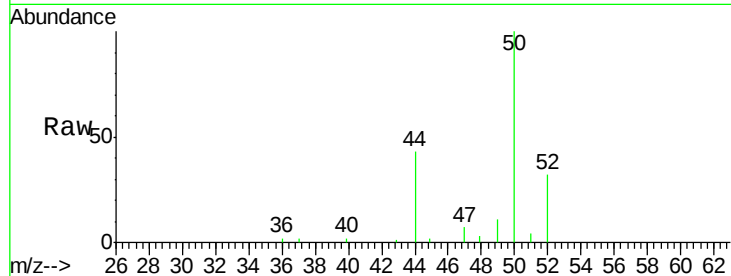
50 100

52 32.0 26.7 40.1

Manual Integrations
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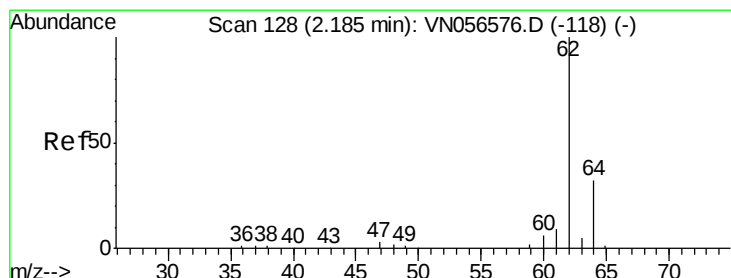
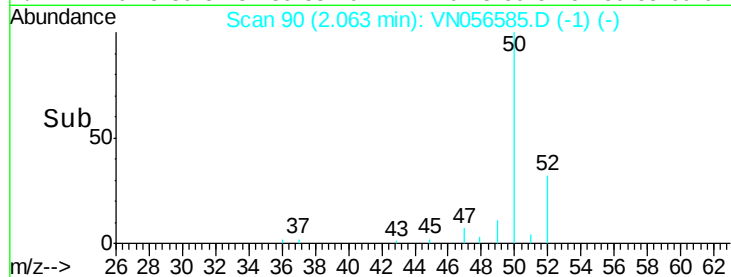
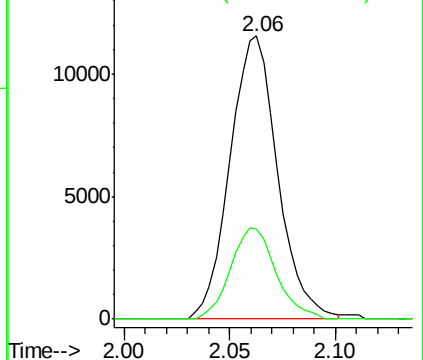
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Abundance Ion 50.00 (49.70 to 50.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#4

Vinyl Chloride

Concen: 5.018 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN056585.D

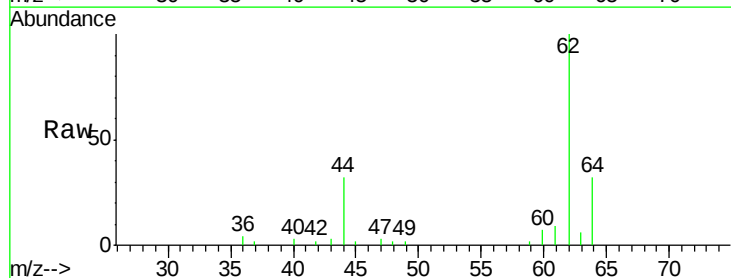
Acq: 3 Jul 2019 14:11

Tgt Ion: 62 Resp: 16411

Ion Ratio Lower Upper

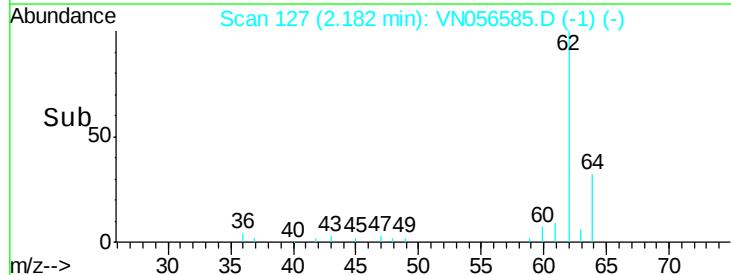
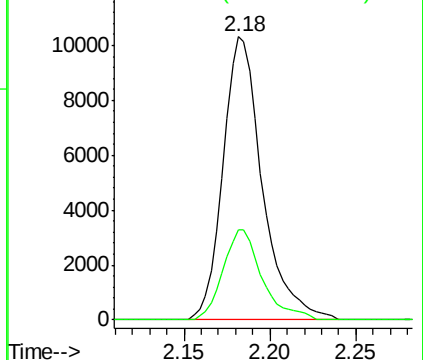
62 100

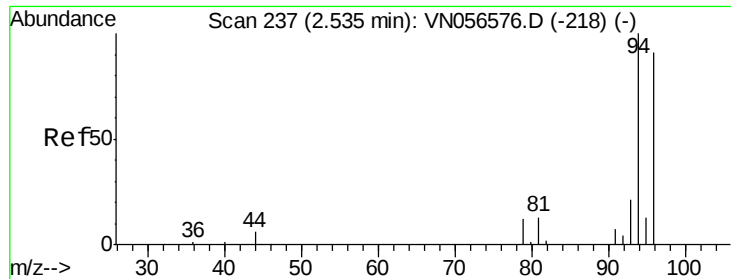
64 31.6 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VNO

Ion 64.00 (63.70 to 64.70): VNO





#5

Bromomethane

Concen: 6.816 ug/l m

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 94 Resp: 11894

Ion Ratio Lower Upper

94 100

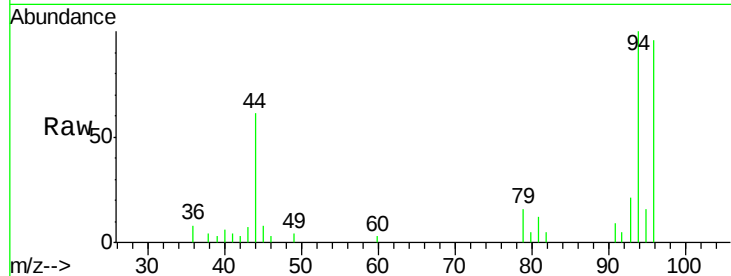
96 95.5 74.1 111.1

Manual Integrations

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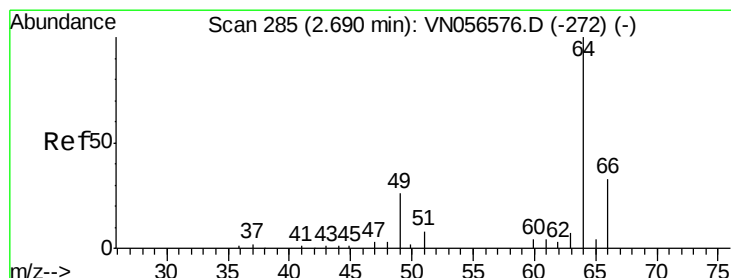
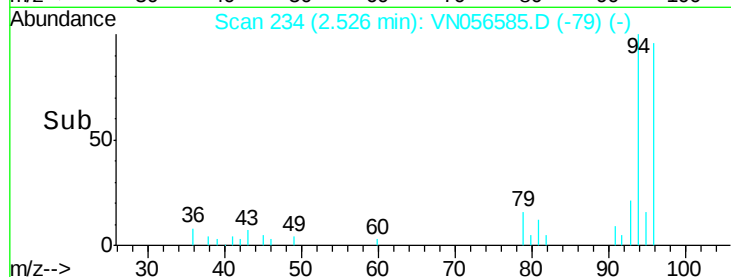
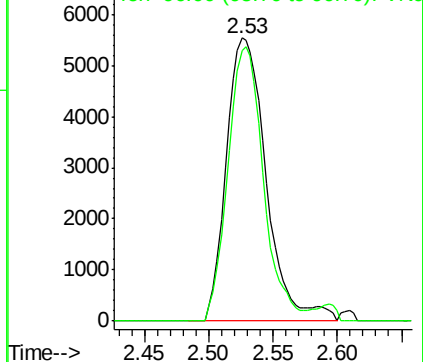
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 5.202 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN056585.D

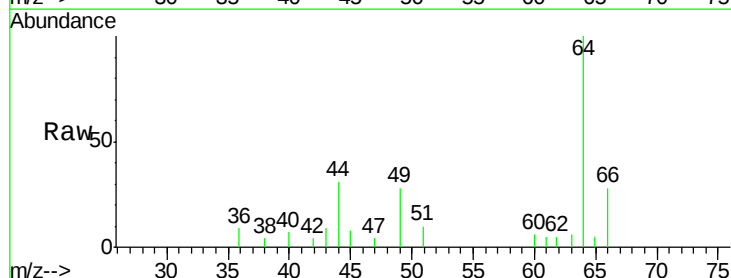
Acq: 3 Jul 2019 14:11

Tgt Ion: 64 Resp: 9422

Ion Ratio Lower Upper

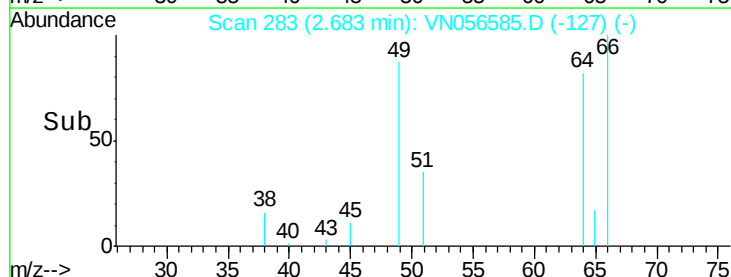
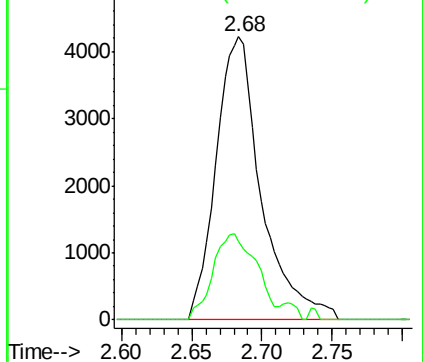
64 100

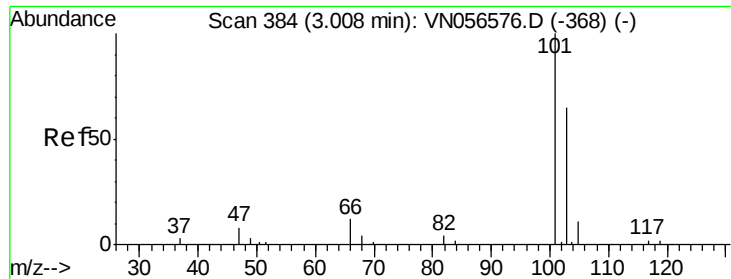
66 27.6 23.7 35.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

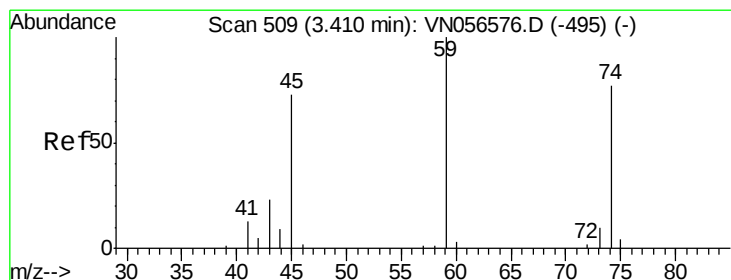
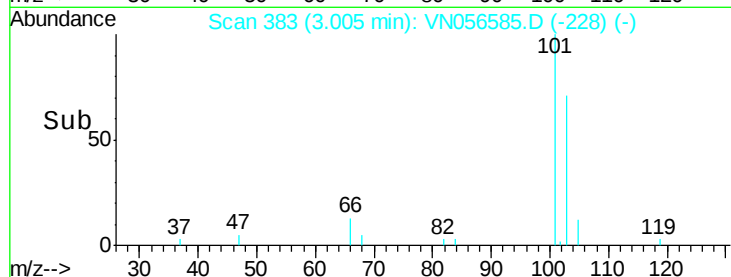
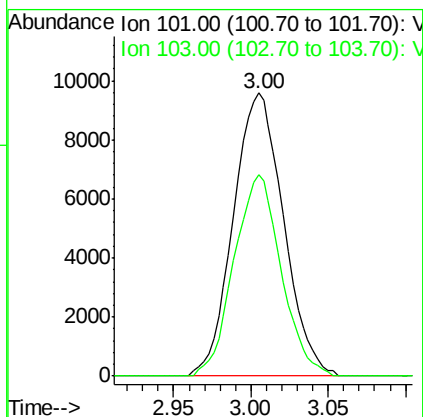
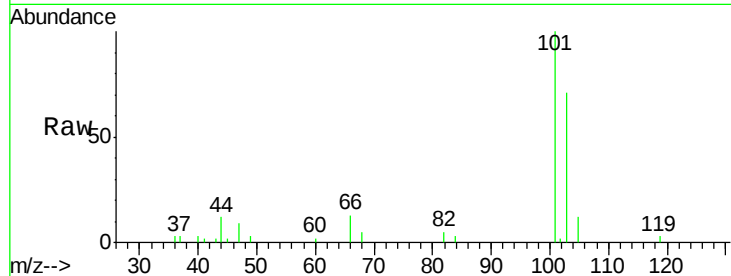
Trichlorofluoromethane
Concen: 5.149 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
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ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:101 Resp: 21617
Ion Ratio Lower Upper
101 100
103 71.3 53.4 80.0

Manual Integrations
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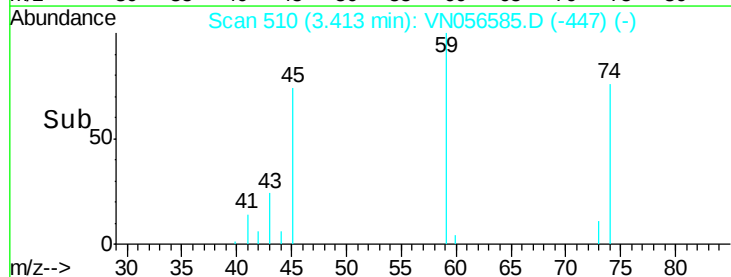
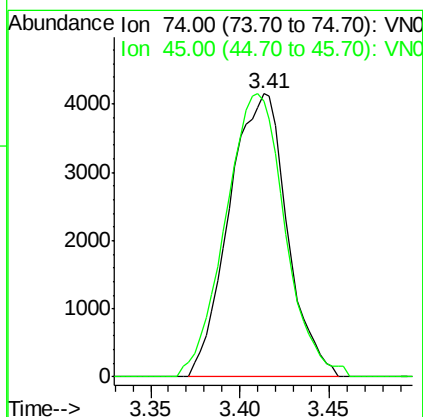
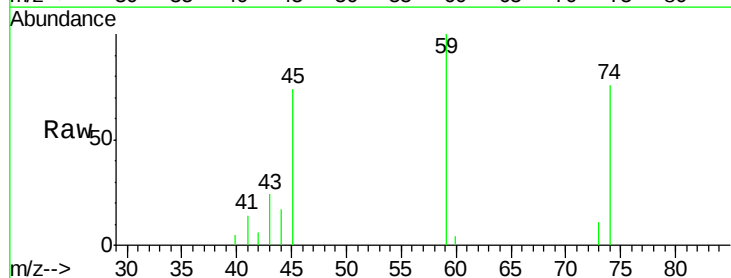
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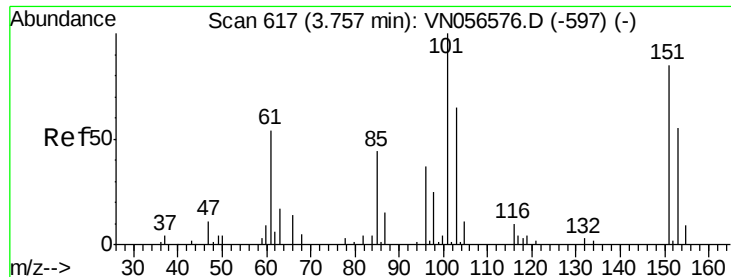


#8

Diethyl Ether
Concen: 5.284 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 74 Resp: 9409
Ion Ratio Lower Upper
74 100
45 101.9 18.8 169.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.247 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.01 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

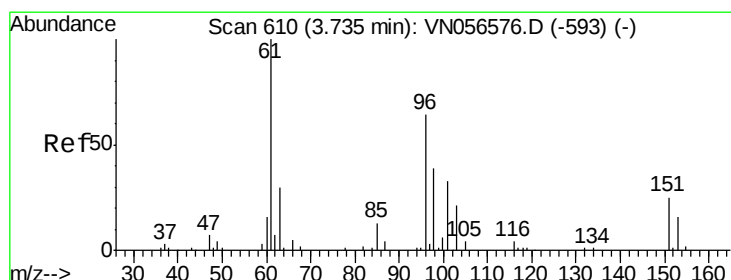
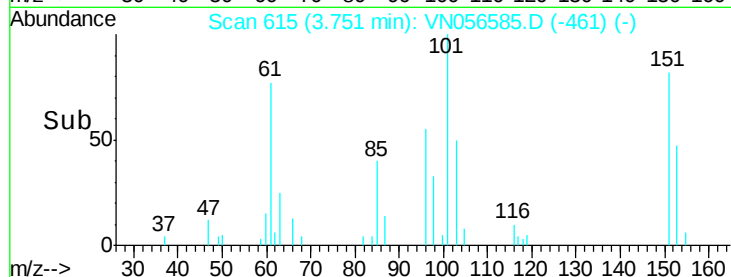
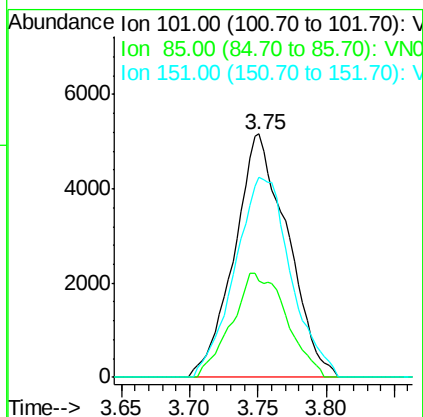
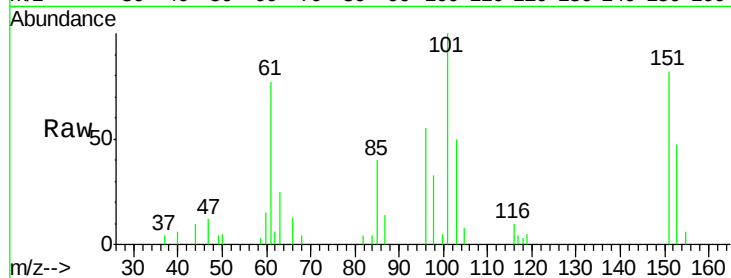
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	101	Resp:	13957
Ion Ratio	Lower	Upper	
101	100		
85	25.6	0.0	82.0
151	86.6	0.0	177.0

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 5.172 ug/l

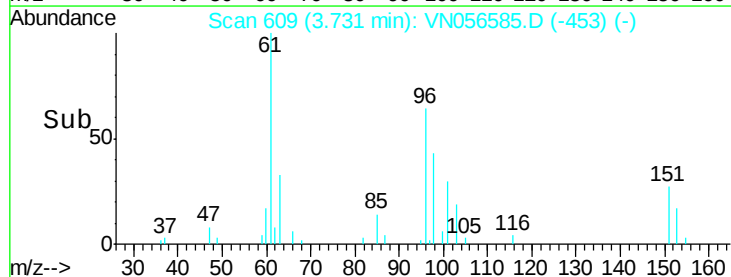
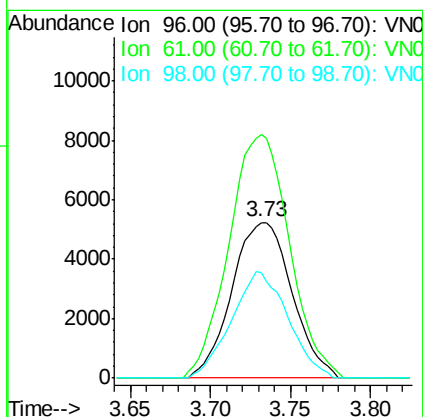
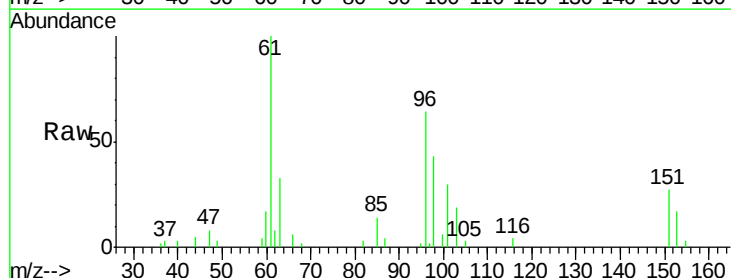
RT: 3.73 min Scan# 609

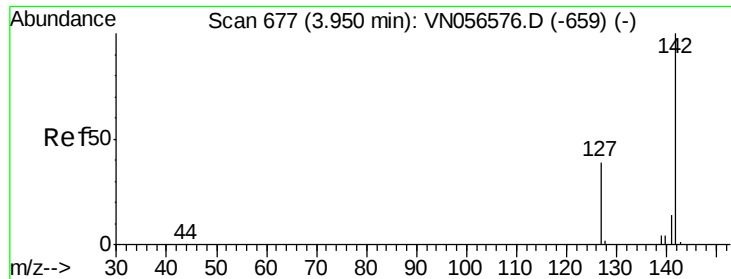
Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	96	Resp:	13498
Ion Ratio	Lower	Upper	
96	100		
61	152.8	119.7	179.5
98	67.4	52.3	78.5





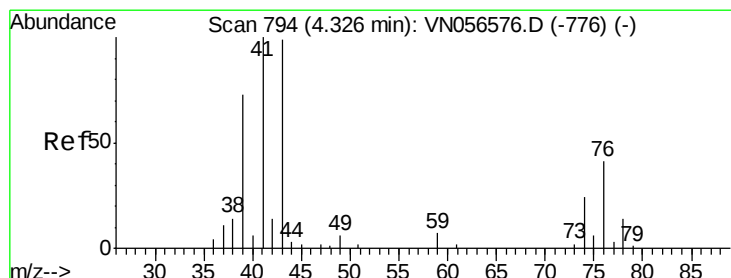
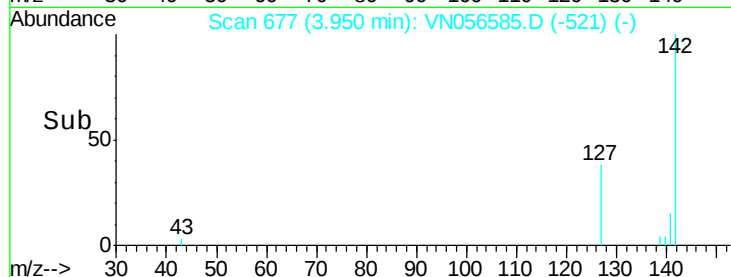
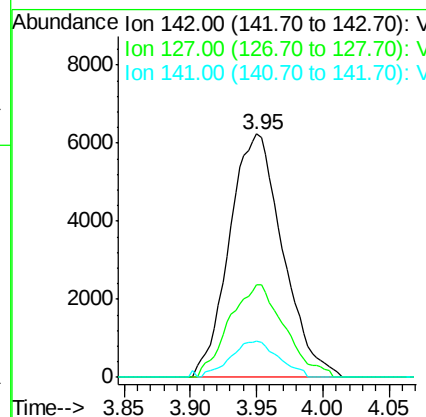
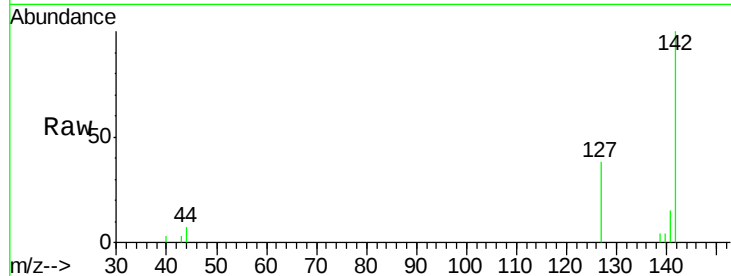
#11
Methyl Iodide
Concen: 4.666 ug/l
RT: 3.95 min Scan# 677
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.1	19.0	57.0
141	13.4	6.7	20.0

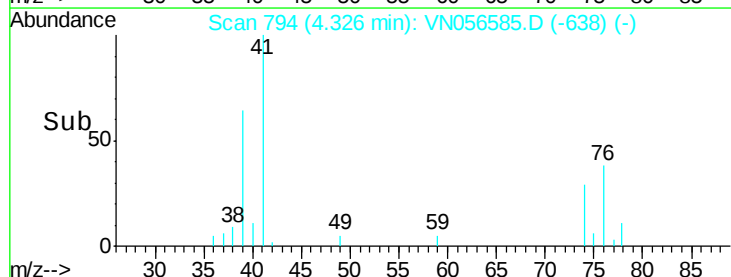
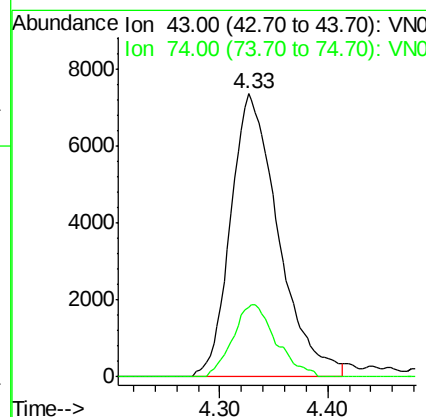
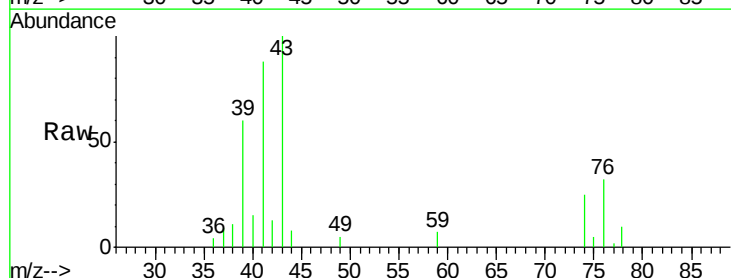
Manual Integrations
APPROVED

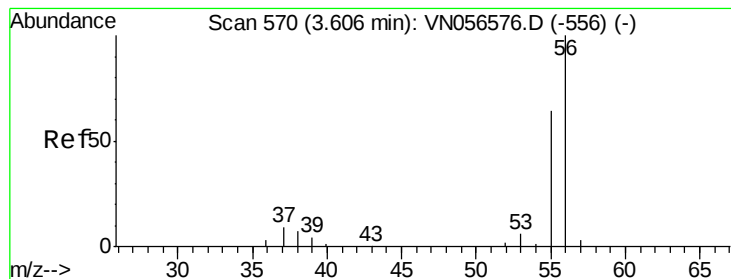
MMDadoda
7/8/2019 10:05:20 AM



#12
Methyl Acetate
Concen: 6.448 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.2	19.9	29.9





#13

Acrolein

Concen: 33.322 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 56 Resp: 11451

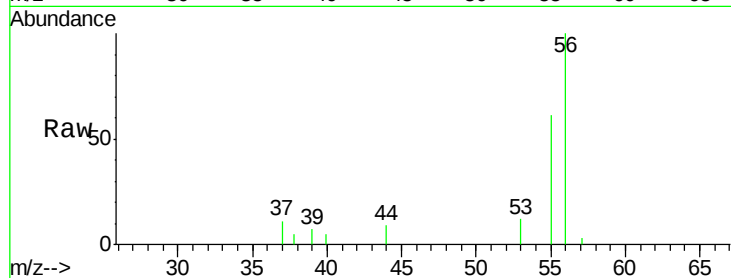
Ion Ratio Lower Upper

56 100

55 66.6 57.9 86.9

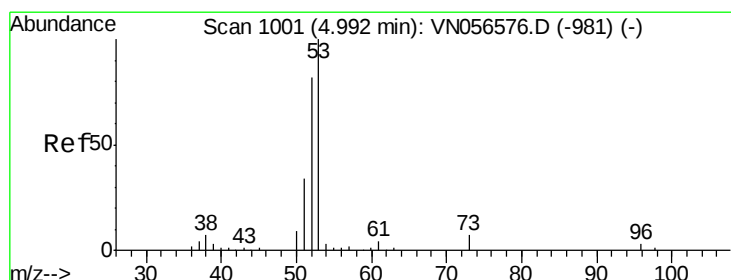
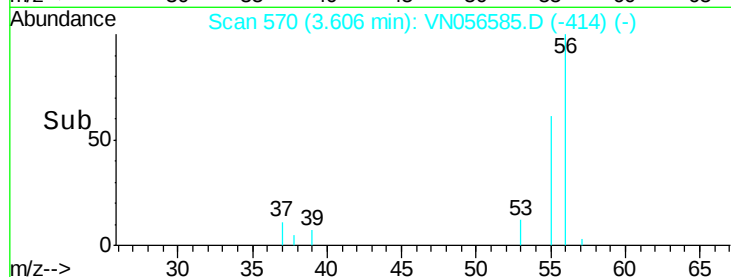
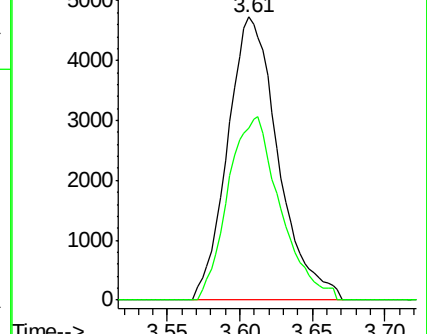
Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 25.714 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

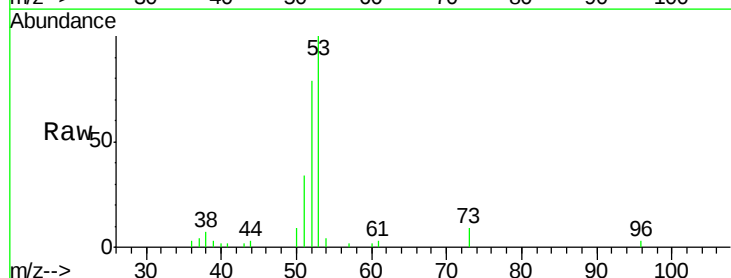
Tgt Ion: 53 Resp: 39738

Ion Ratio Lower Upper

53 100

52 80.5 40.8 122.2

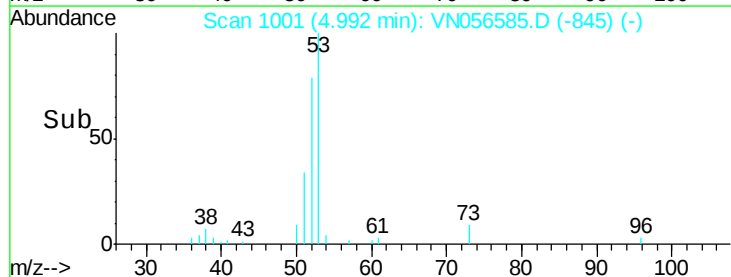
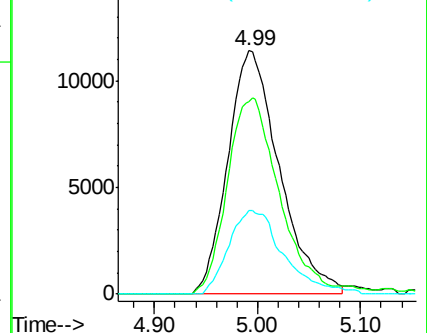
51 36.3 17.3 52.0

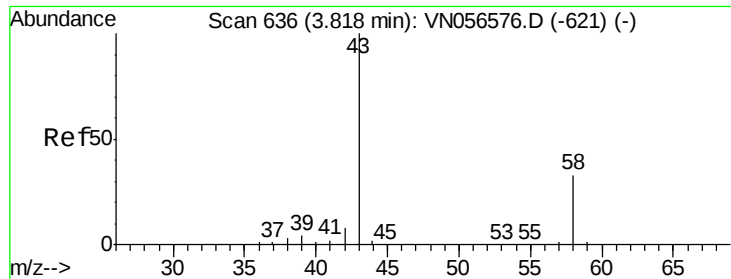


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





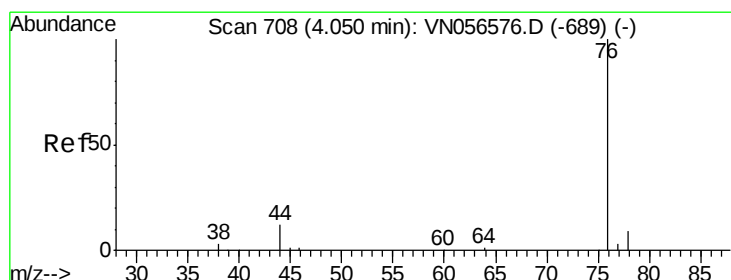
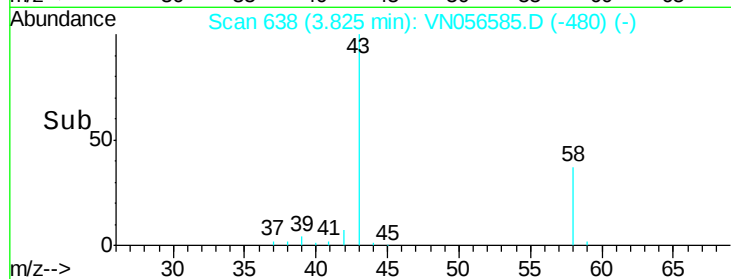
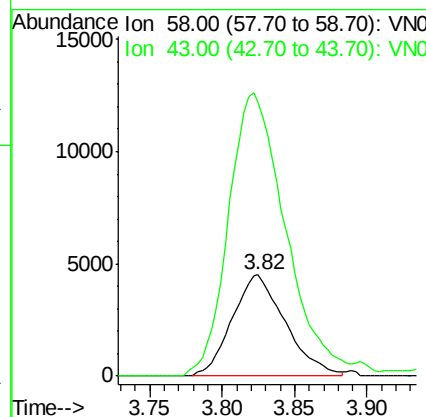
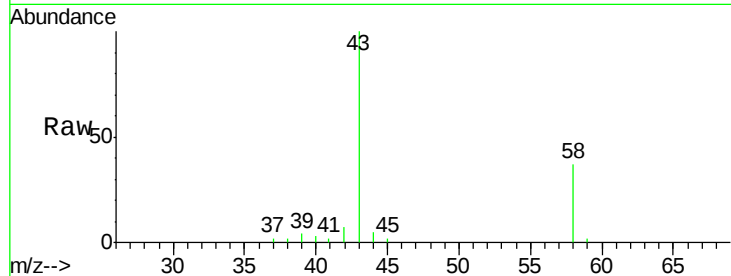
#15
Acetone
Concen: 26.805 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 58 Resp: 11558
Ion Ratio Lower Upper
58 100
43 263.0 232.5 348.7

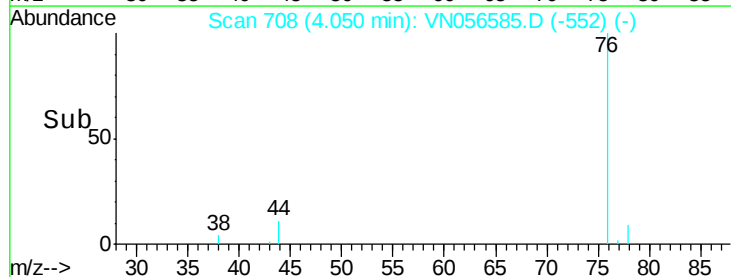
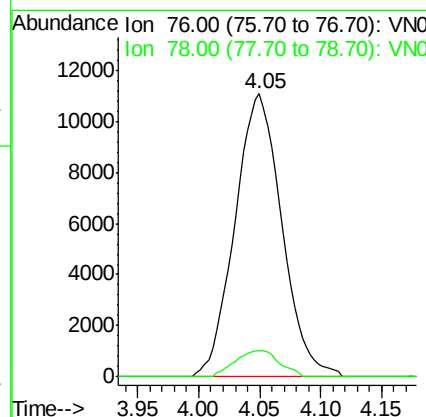
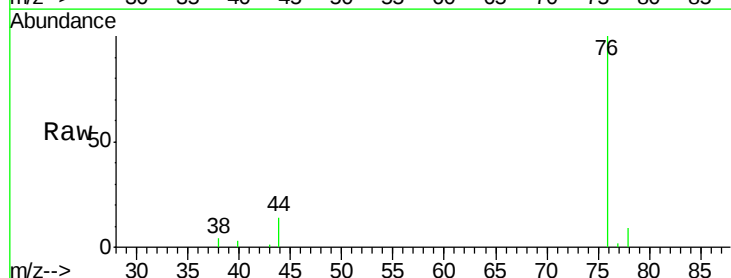
Manual Integrations
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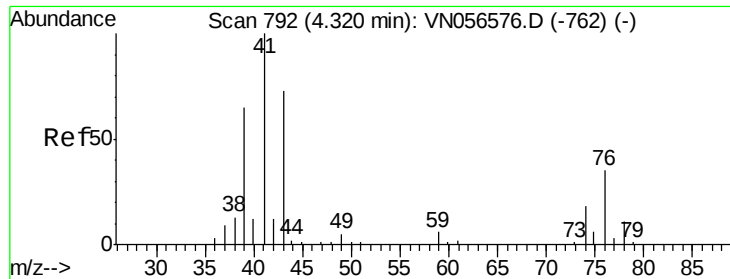
MMDadoda
7/8/2019 10:05:20 AM



#16
Carbon Disulfide
Concen: 4.710 ug/l
RT: 4.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 76 Resp: 29559
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9





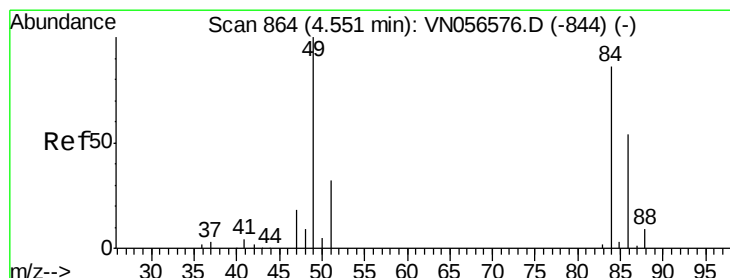
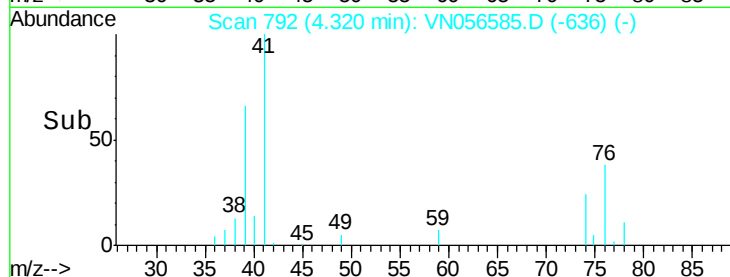
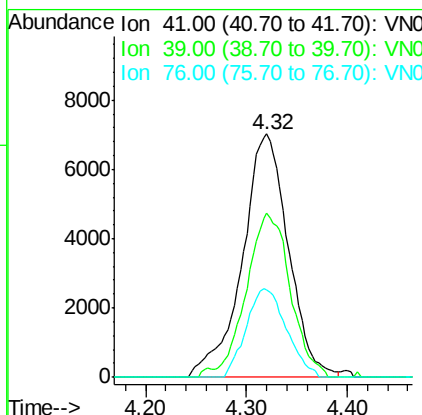
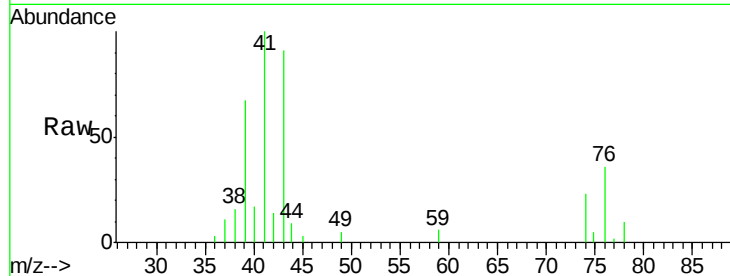
#17
Allvl chloride
Concen: 4.873 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:	41	Resp:	22255
Ion	Ratio	Lower	Upper
41	100		
39	67.3	33.0	99.0
76	35.9	18.9	56.9

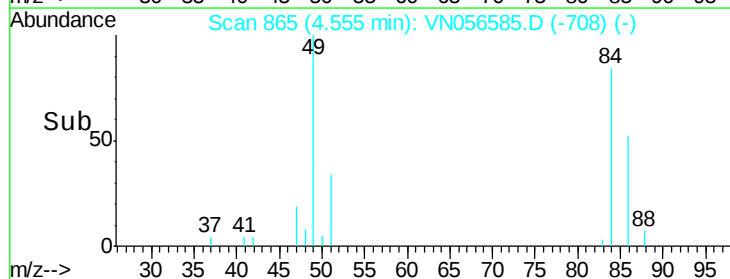
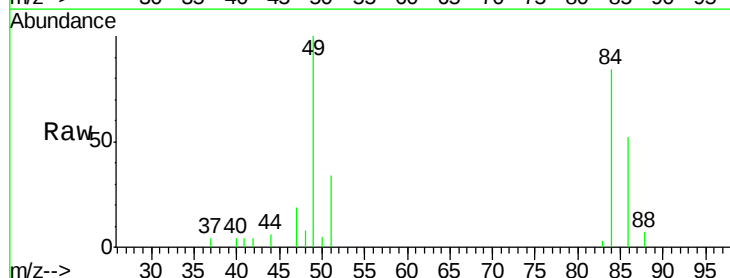
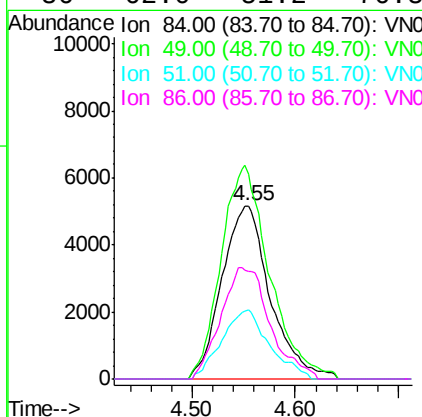
Manual Integrations
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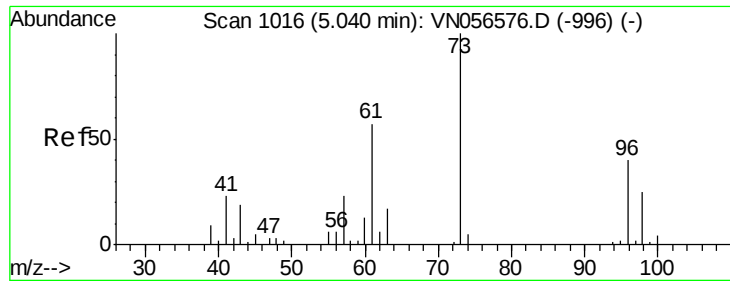
MMDadoda
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#18
Methylene Chloride
Concen: 5.456 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion:	84	Resp:	16834
Ion	Ratio	Lower	Upper
84	100		
49	118.4	87.6	131.4
51	39.9	27.0	40.4
86	62.0	51.2	76.8





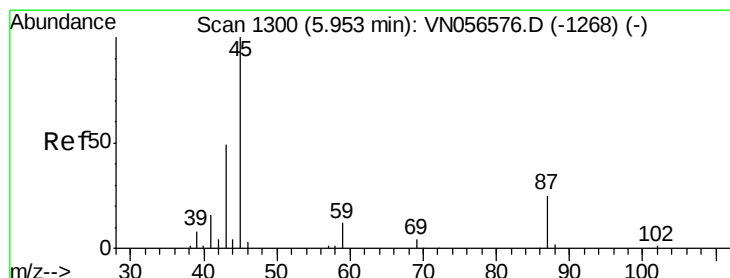
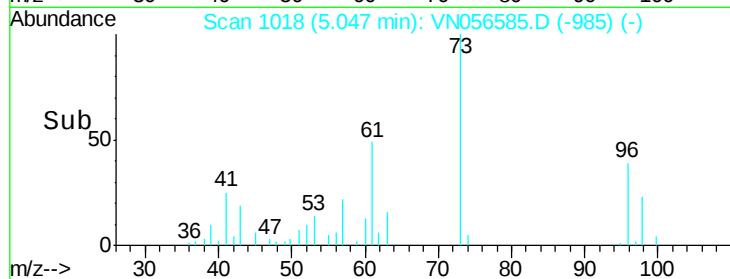
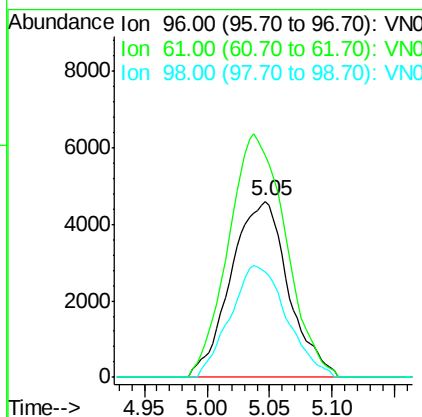
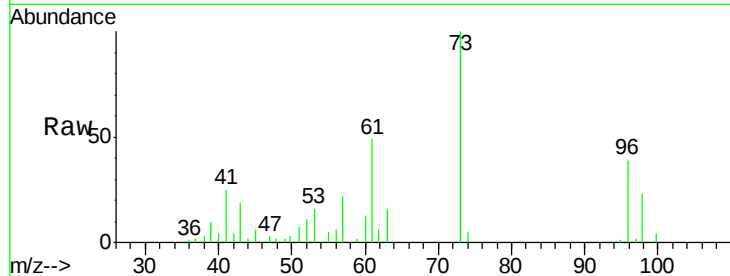
#19
trans-1,2-Dichloroethene
Concen: 5.185 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.9	102.5	153.7
98	60.0	46.9	70.3

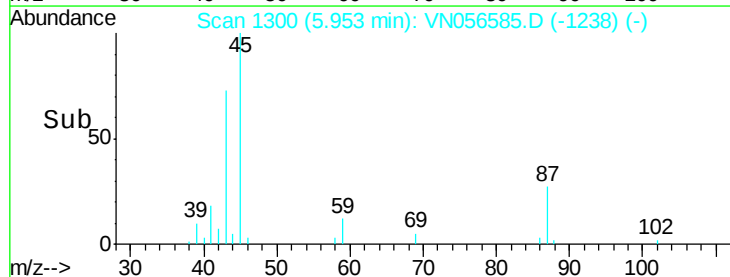
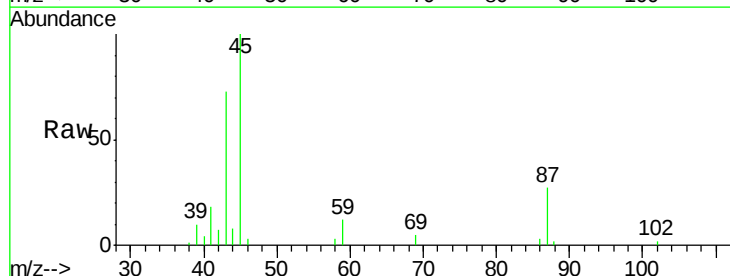
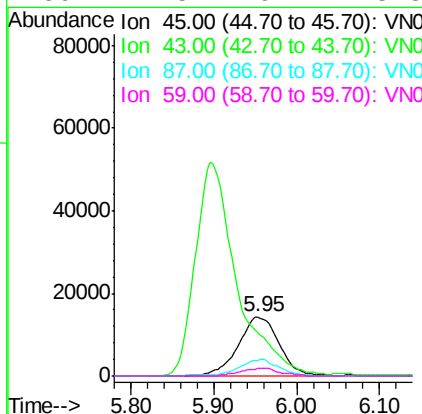
Manual Integrations
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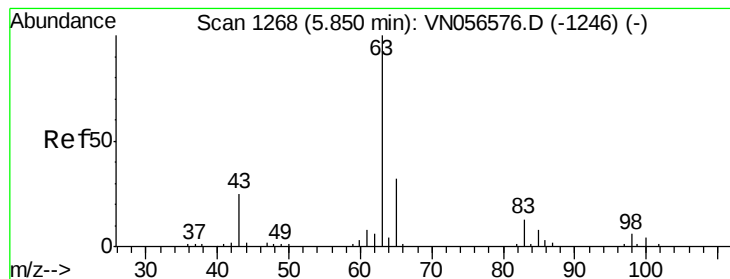
MMDadoda
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#20
Diisopropyl ether
Concen: 5.218 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
45	100		
43	69.4	48.0	72.0
87	27.1	23.4	35.2
59	12.5	9.2	13.8





#21

1,1-Dichloroethane

Concen: 5.190 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

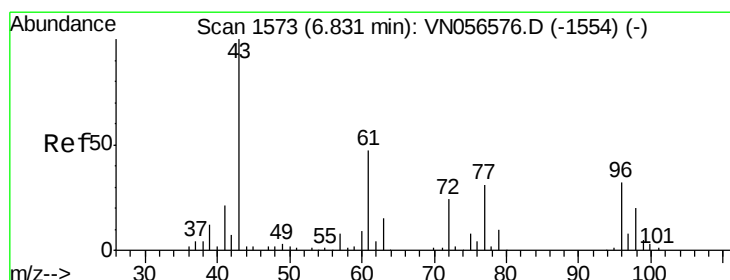
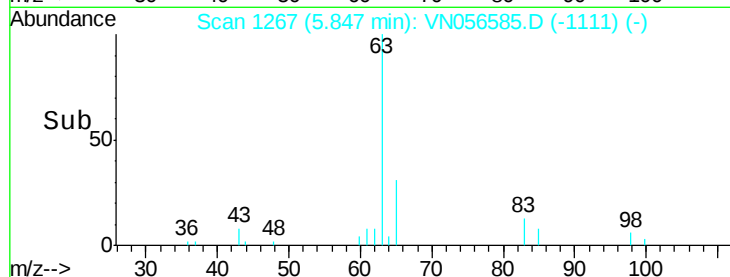
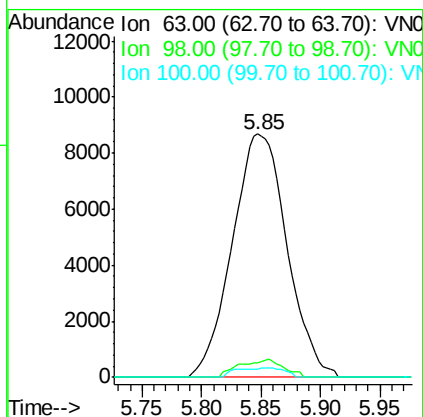
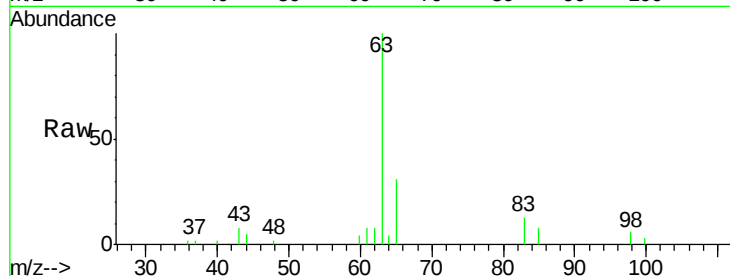
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	63	Resp:	27623
Ion Ratio	Lower	Upper	
63	100		
98	5.9	3.5	10.5
100	3.4	2.3	6.9

Manual Integrations
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7/8/2019 10:05:20 AM



#22

cis-1,2-Dichloroethene

Concen: 5.101 ug/l

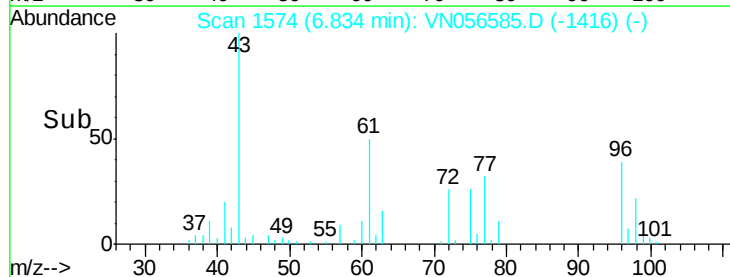
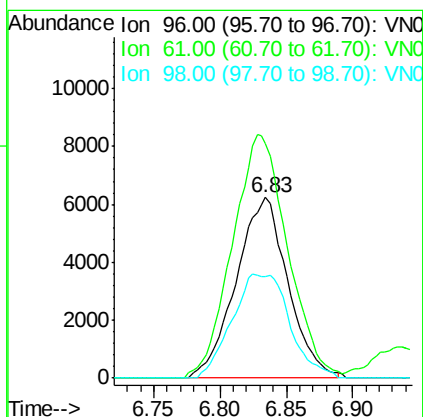
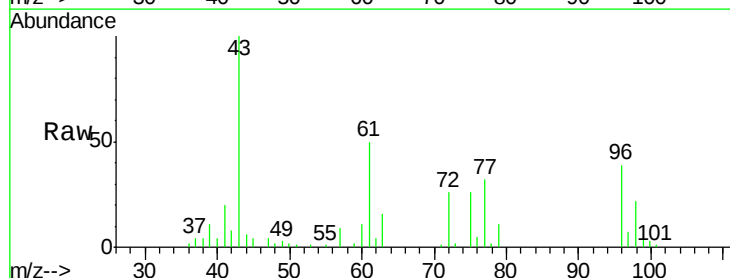
RT: 6.83 min Scan# 1574

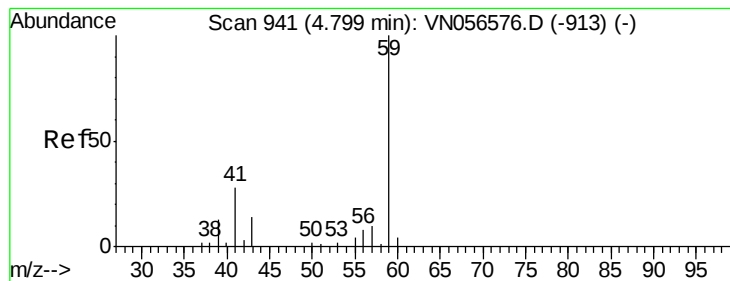
Delta R.T. 0.01 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	96	Resp:	16979
Ion Ratio	Lower	Upper	
96	100		
61	143.0	105.7	158.5
98	33.9	52.0	78.0#





#23

tert-Butyl Alcohol

Concen: 34.726 ug/l m

RT: 4.80 min Scan# 940

Delta R.T. 0.01 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 59 Resp: 20075

Ion Ratio Lower Upper

59 100

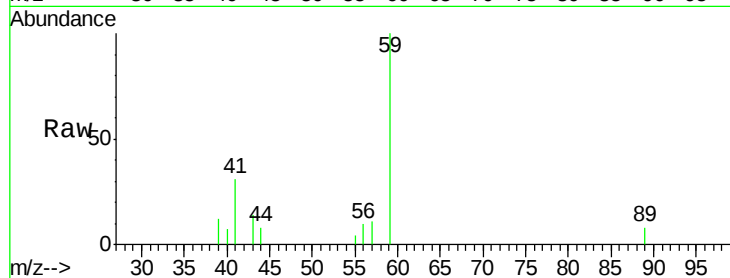
52 0.0 0.0 0.0

Manual Integrations

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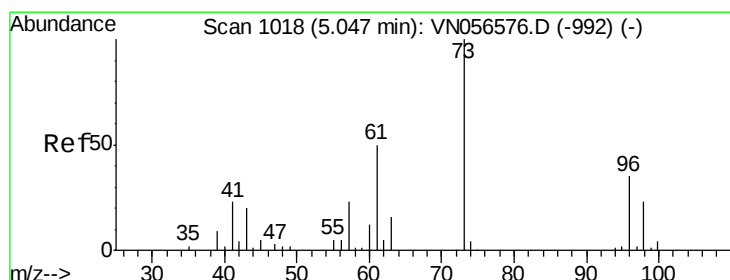
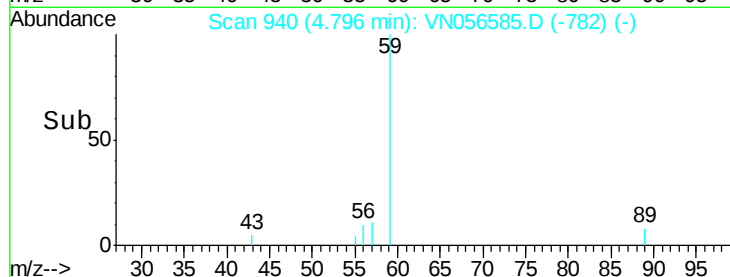
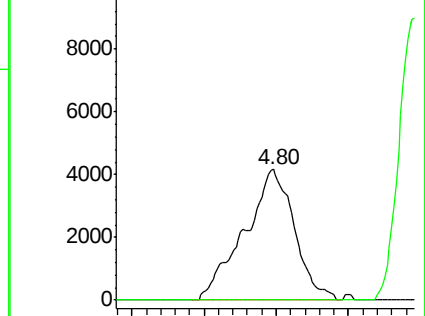
MMDadoda

7/8/2019 10:05:20 AM



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 5.149 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN056585.D

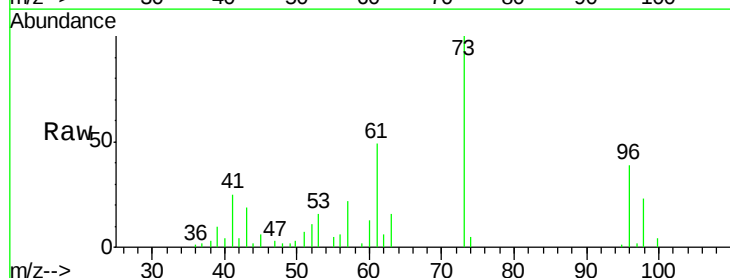
Acq: 3 Jul 2019 14:11

Tgt Ion: 73 Resp: 44449

Ion Ratio Lower Upper

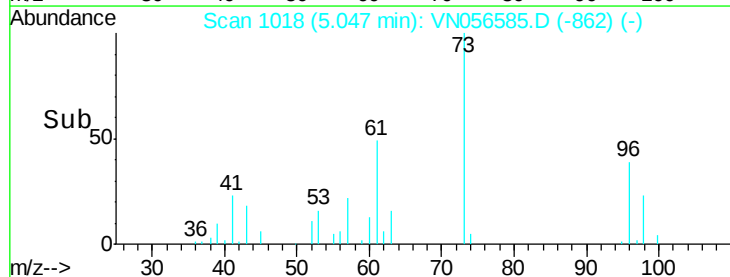
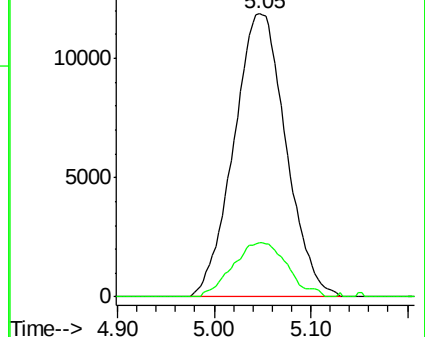
73 100

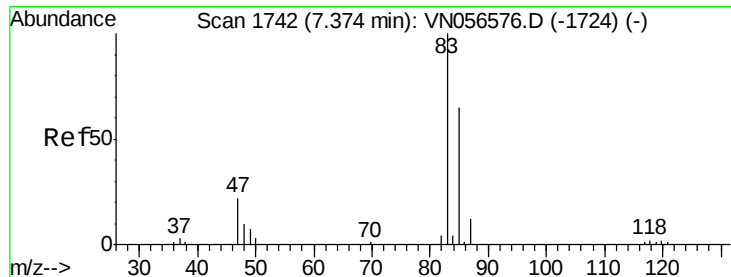
43 8.2 15.4 23.0#



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





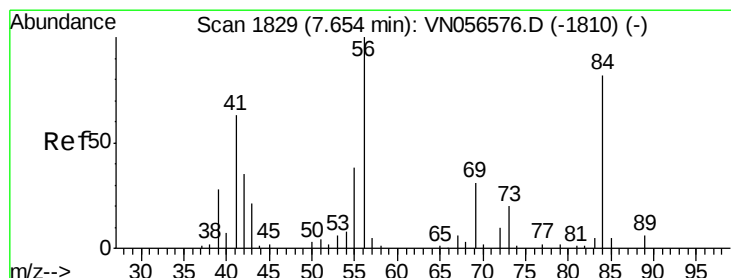
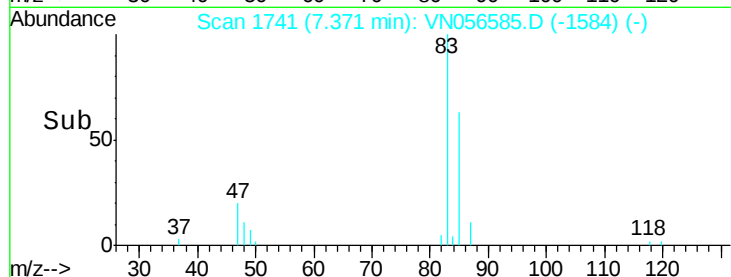
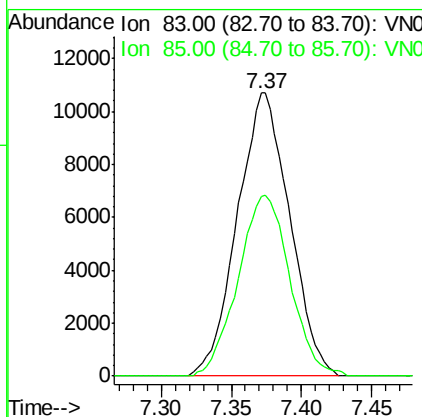
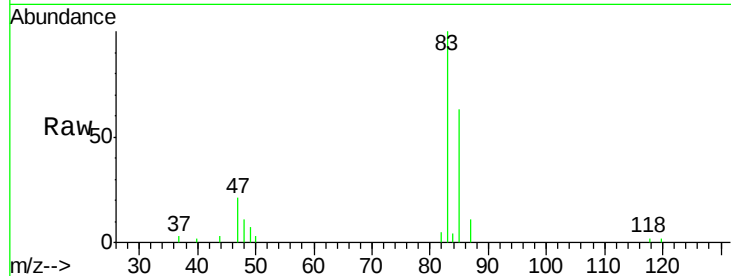
#25
Chloroform
Concen: 5.312 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 83 Resp: 27711
Ion Ratio Lower Upper
83 100
85 63.5 52.0 78.0

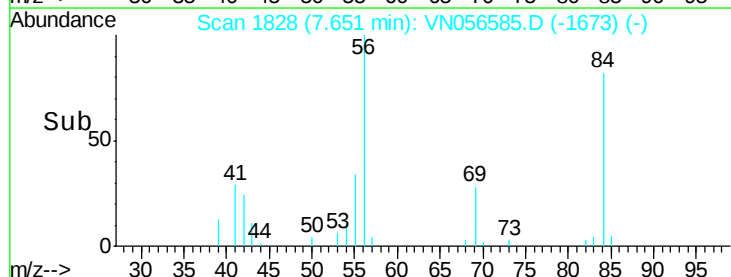
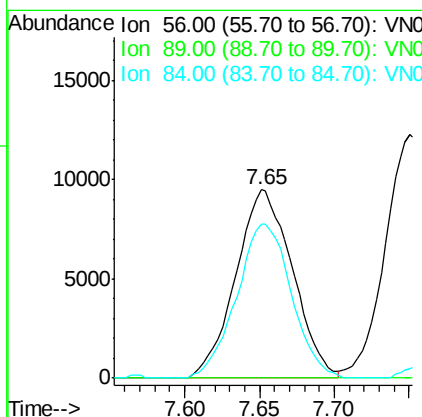
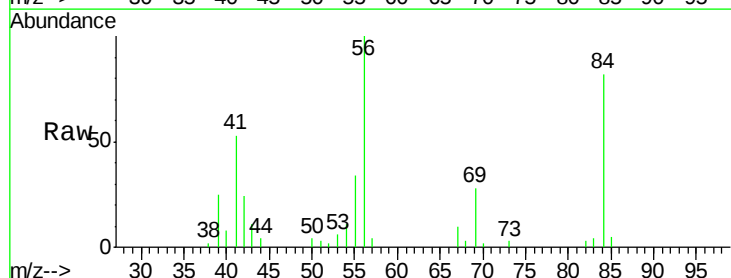
Manual Integrations
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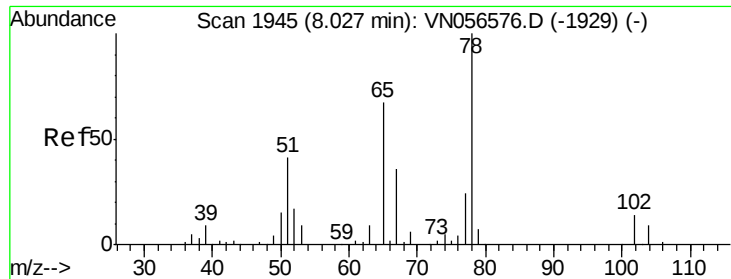
MMDadoda
7/8/2019 10:05:20 AM



#26
Cyclohexane
Concen: 5.100 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 56 Resp: 25004
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 79.1 70.1 105.1





#27

1,2-Dichloroethane-d4

Concen: 30.876 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 65 Resp: 101627

Ion Ratio Lower Upper

65 100

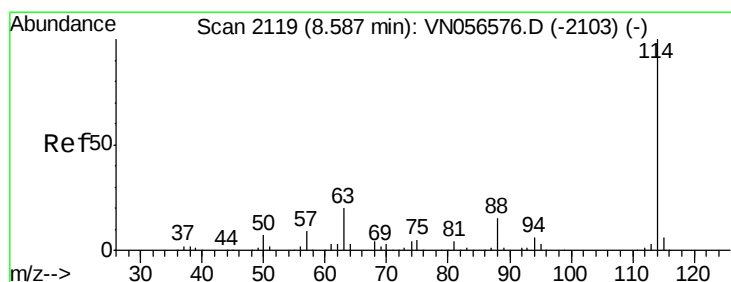
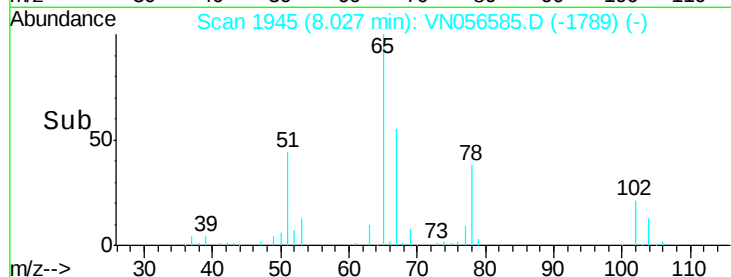
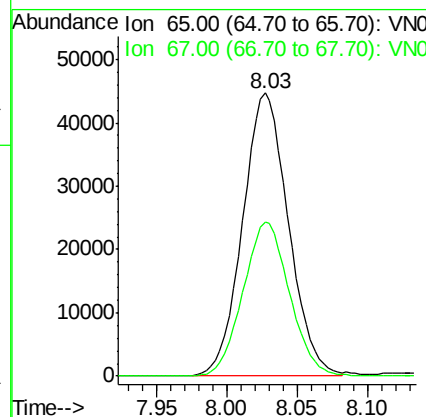
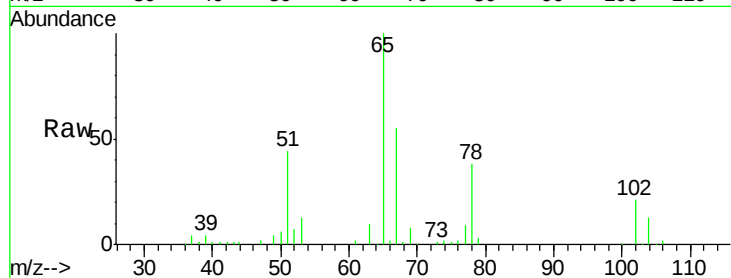
67 55.2 43.4 65.2

Manual Integrations

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7/8/2019 10:05:20 AM



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

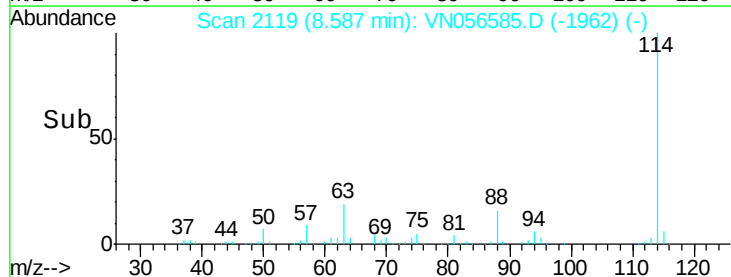
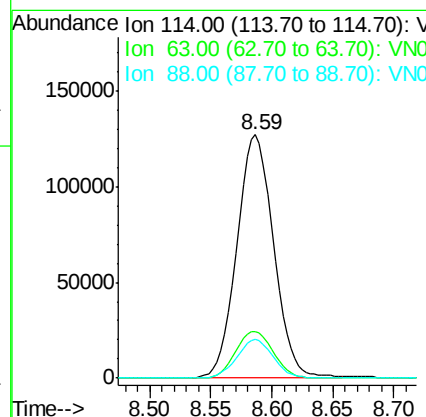
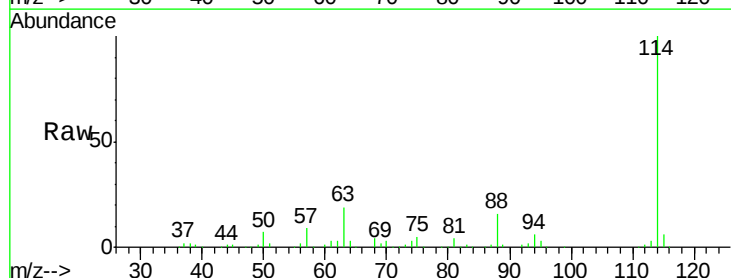
Tgt Ion: 114 Resp: 265954

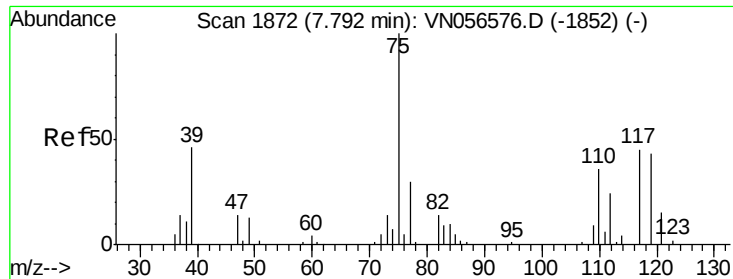
Ion Ratio Lower Upper

114 100

63 19.9 14.7 22.1

88 15.5 11.9 17.9





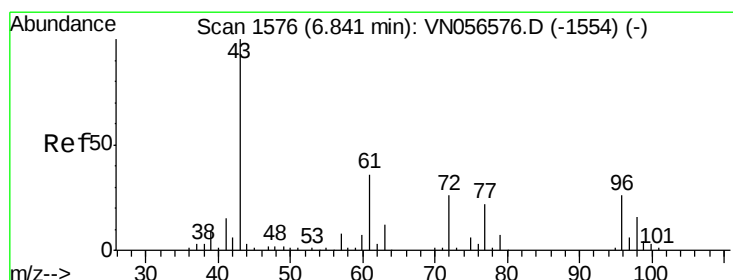
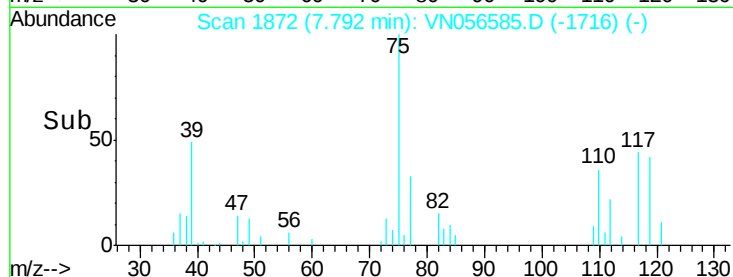
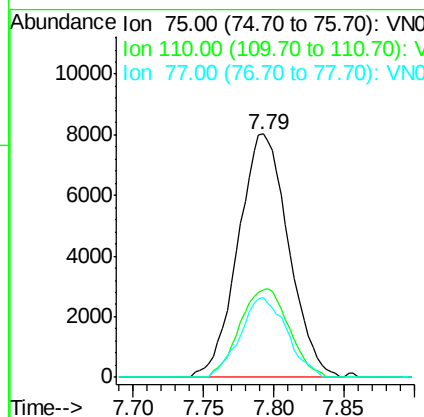
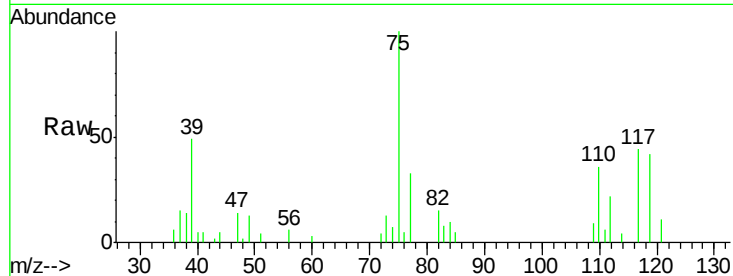
#29
 1,1-Dichloropropene
 Concen: 5.115 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.4	0.0	77.0	
77	30.3	0.0	62.4	

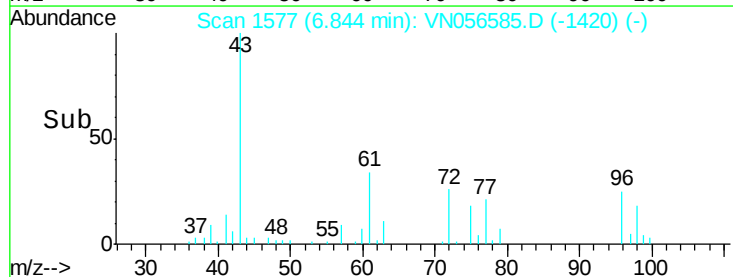
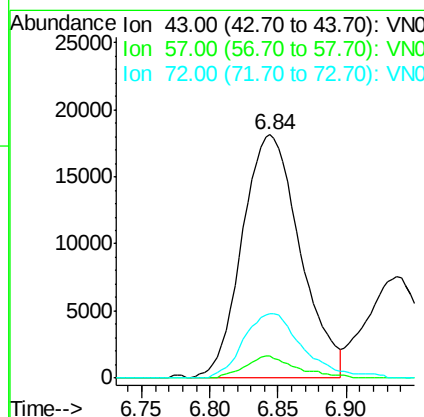
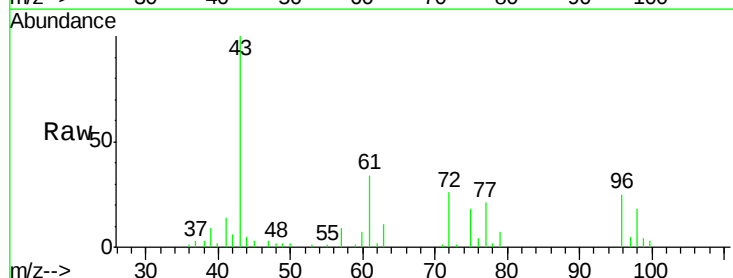
Manual Integrations
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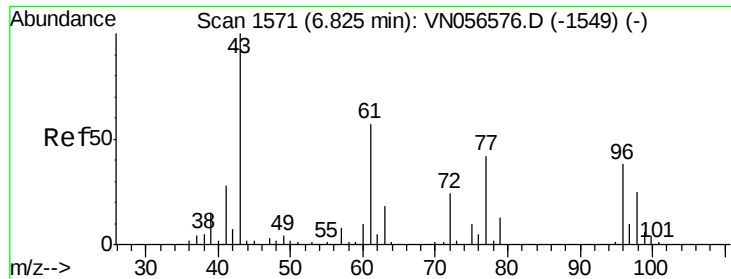
MMDadoda
 7/8/2019 10:05:20 AM



#30
 2-Butanone
 Concen: 24.617 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	7.1	6.7	10.1	
72	26.7	22.4	33.6	





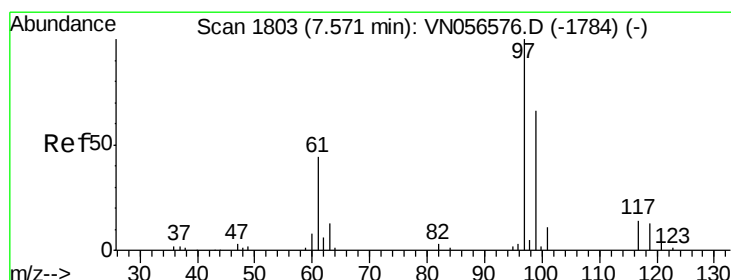
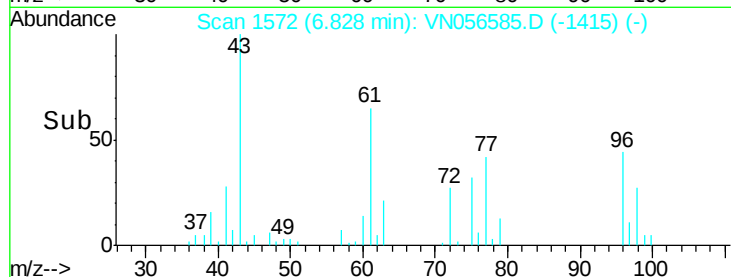
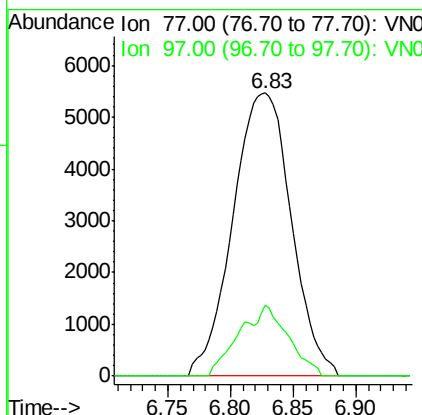
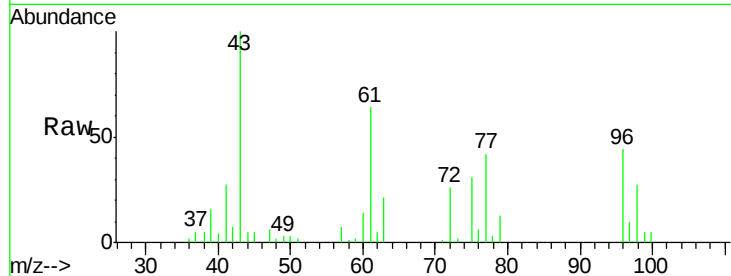
#31
 2,2-Dichloropropane
 Concen: 4.679 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion: 77 Resp: 17669
 Ion Ratio Lower Upper
 77 100
 97 13.1 20.8 31.2#

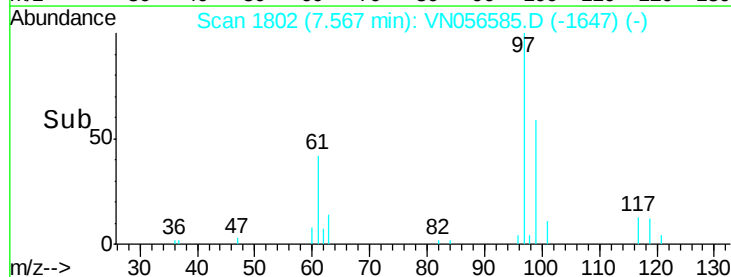
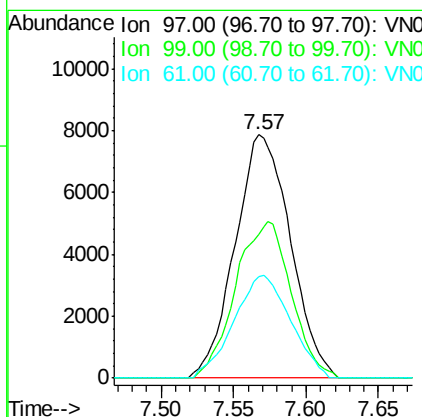
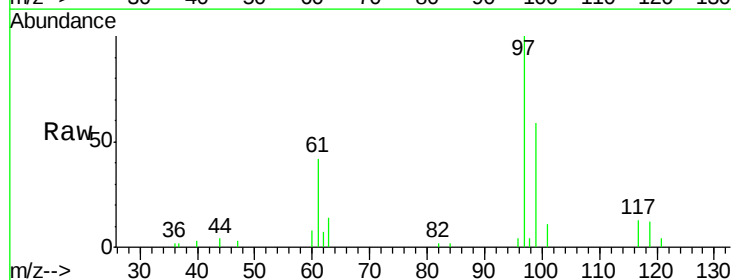
Manual Integrations
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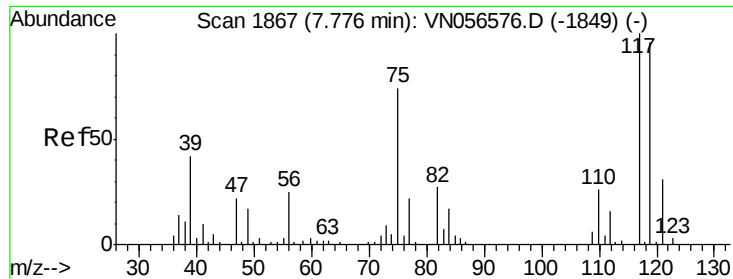
MMDadoda
 7/8/2019 10:05:20 AM



#32
 1,1,1-Trichloroethane
 Concen: 4.977 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion: 97 Resp: 20838
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.5 77.3
 61 43.1 32.9 49.3





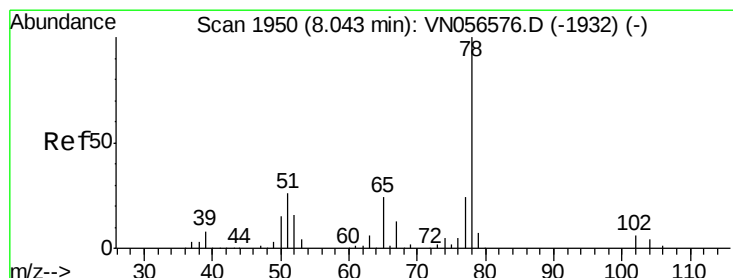
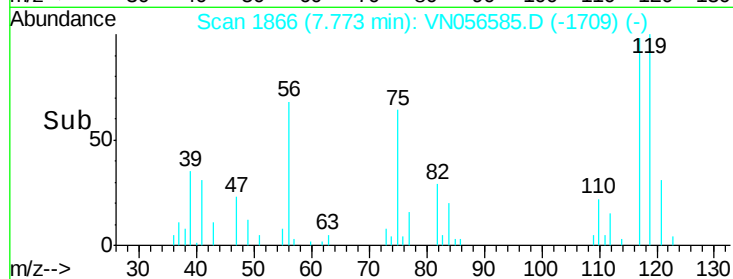
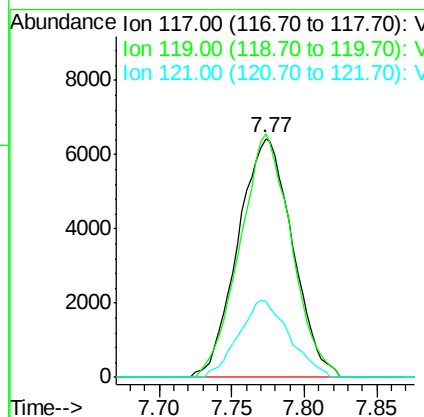
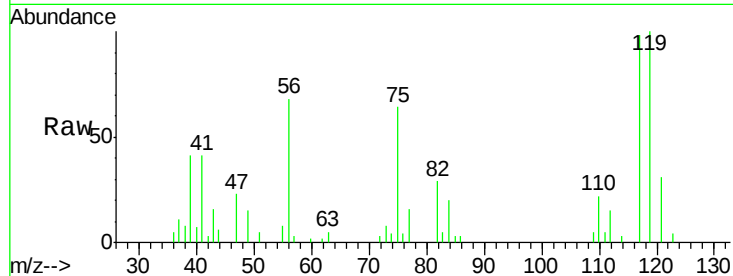
#33
Carbon Tetrachloride
Concen: 4.726 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:117 Resp: 16775
Ion Ratio Lower Upper
117 100
119 101.8 77.3 115.9
121 31.7 25.0 37.4

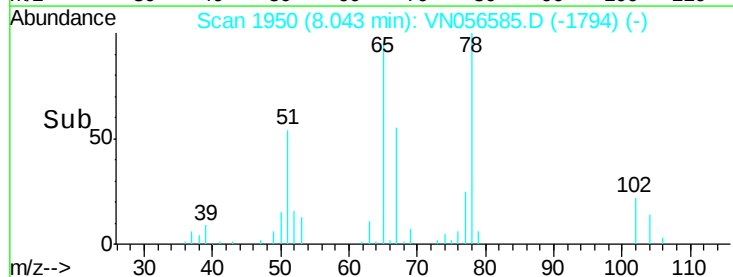
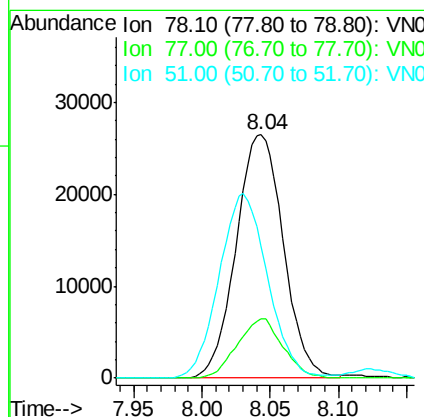
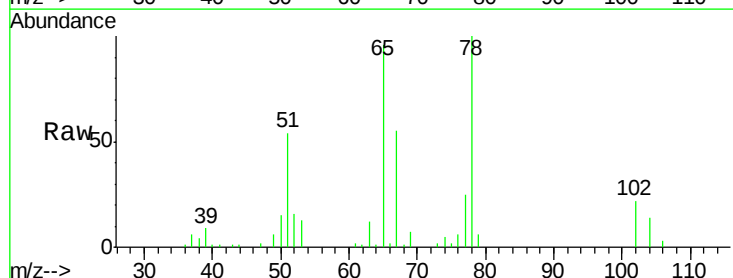
Manual Integrations
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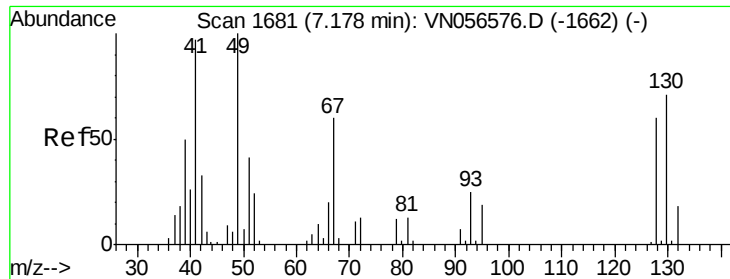
MMDadoda
7/8/2019 10:05:20 AM



#34
Benzene
Concen: 5.196 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 78 Resp: 63805
Ion Ratio Lower Upper
78 100
77 24.6 19.3 28.9
51 52.7 19.8 29.8#





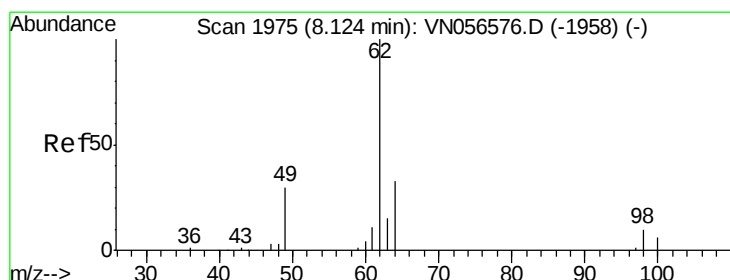
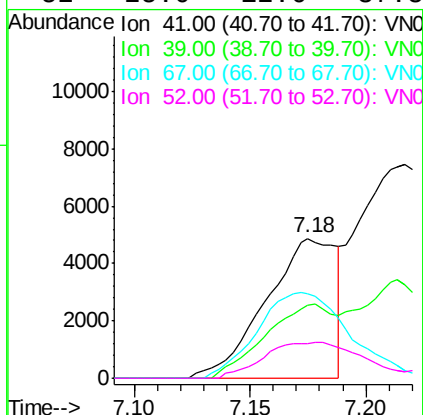
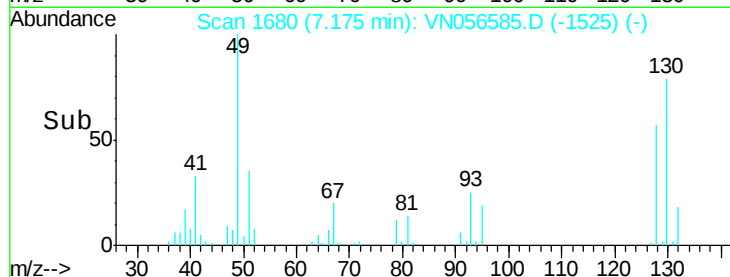
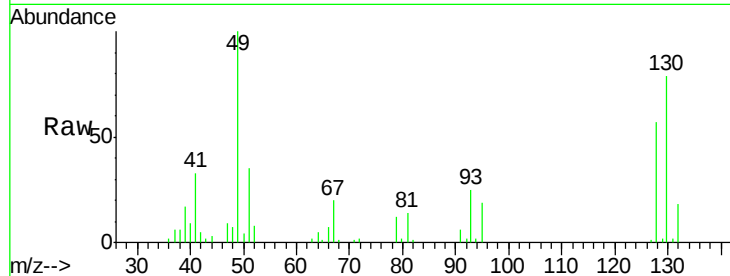
#35
Methacrylonitrile
Concen: 5.304 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	41	Resp	10255
Ion Ratio	Lower	Upper	
41	100		
39	52.7	24.8	74.3
67	60.9	34.3	102.9
52	25.0	12.6	37.8

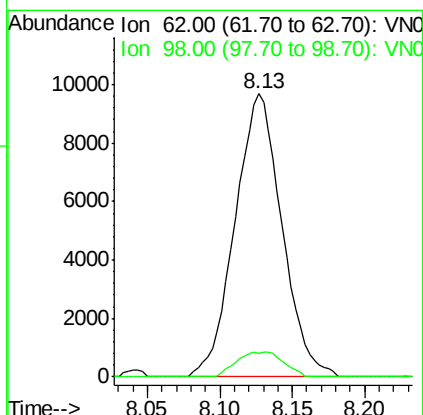
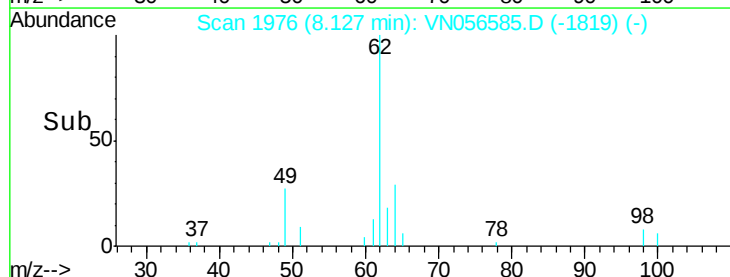
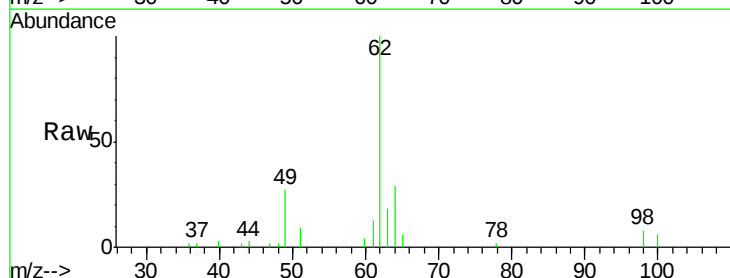
Manual Integrations
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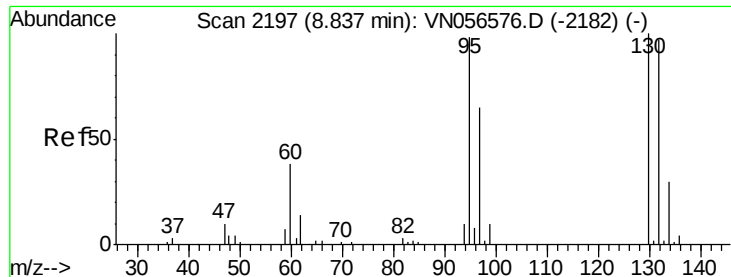
MMDadoda
7/8/2019 10:05:20 AM



#36
1,2-Dichloroethane
Concen: 5.452 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	62	Resp	21760
Ion Ratio	Lower	Upper	
62	100		
98	4.5	8.6	13.0#





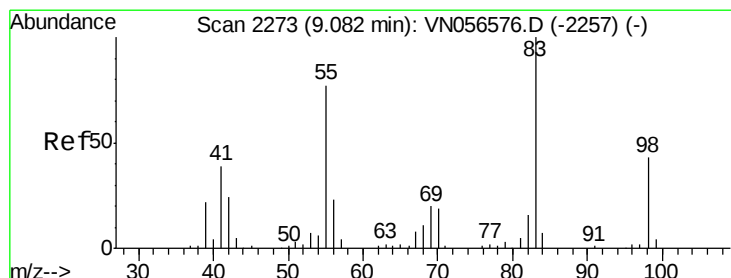
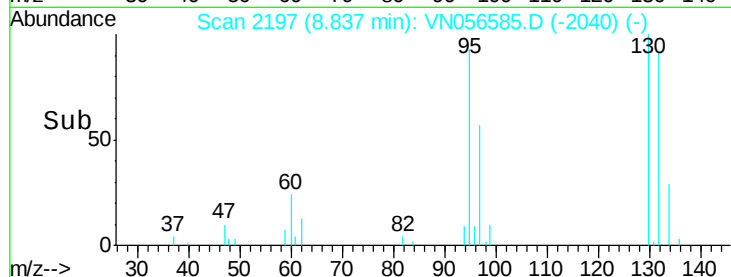
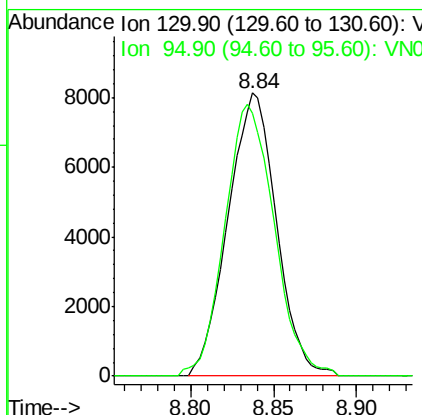
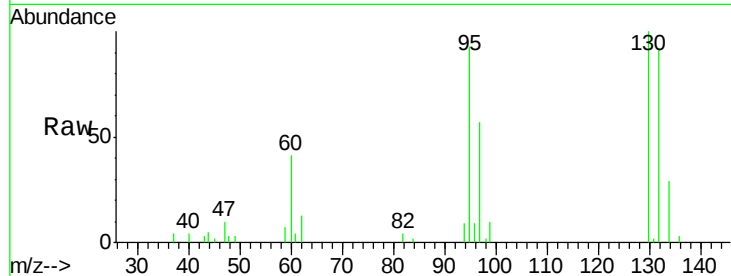
#37
 Trichloroethene
 Concen: 5.152 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion:130 Resp: 16501
 Ion Ratio Lower Upper
 130 100
 95 92.8 73.0 109.6

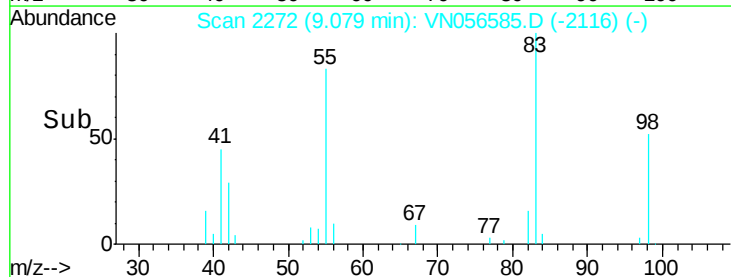
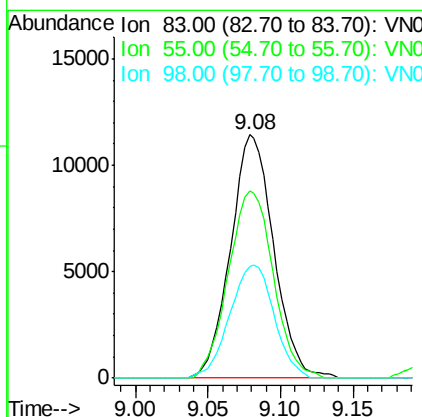
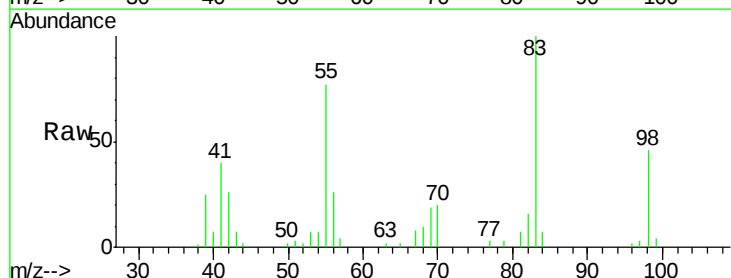
Manual Integrations
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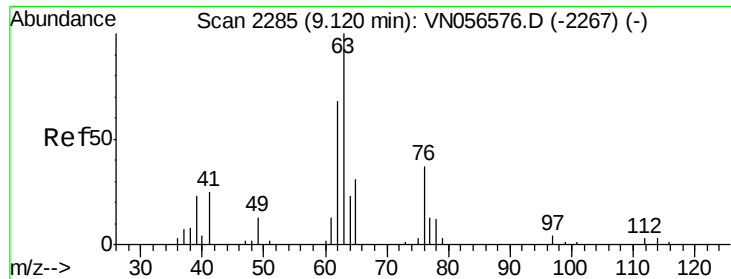
MMDadoda
 7/8/2019 10:05:20 AM



#38
 Methylcyclohexane
 Concen: 4.801 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion: 83 Resp: 23631
 Ion Ratio Lower Upper
 83 100
 55 80.1 37.5 112.7
 98 47.6 23.1 69.3





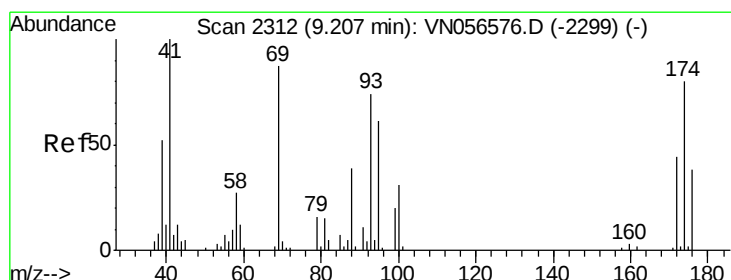
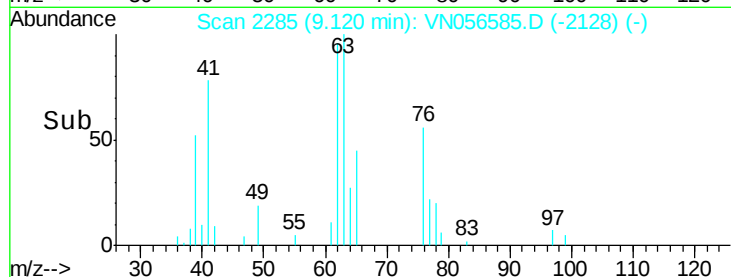
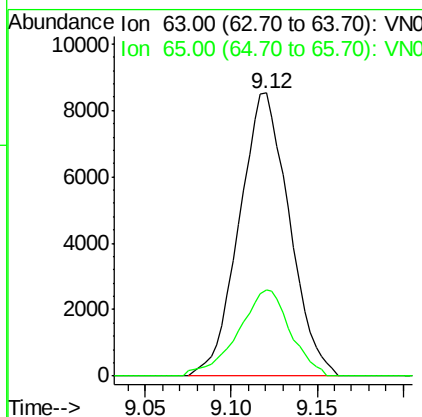
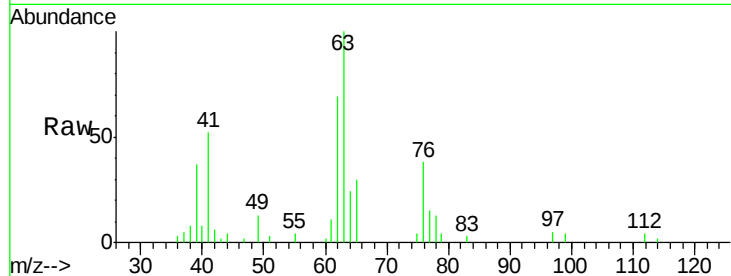
#39
 1,2-Dichloropropane
 Concen: 5.210 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion: 63 Resp: 17225
 Ion Ratio Lower Upper
 63 100
 65 30.3 23.1 34.7

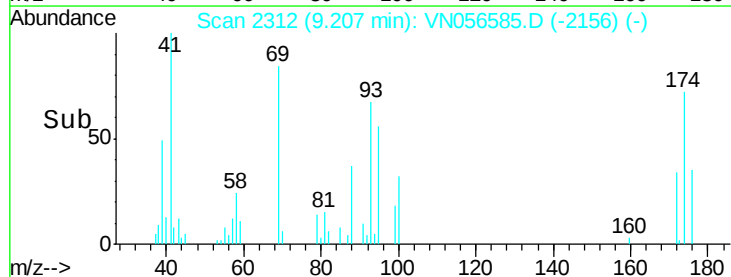
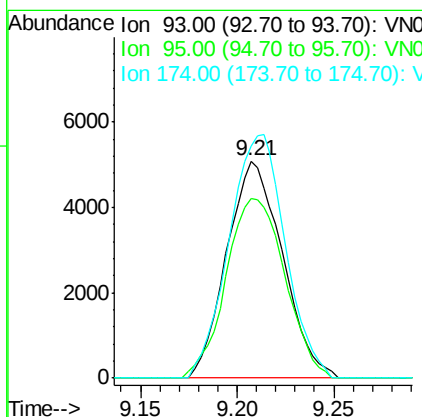
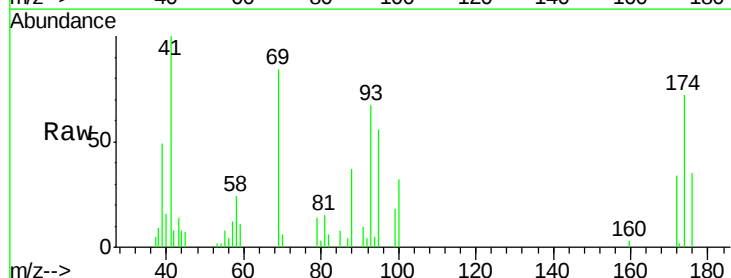
Manual Integrations
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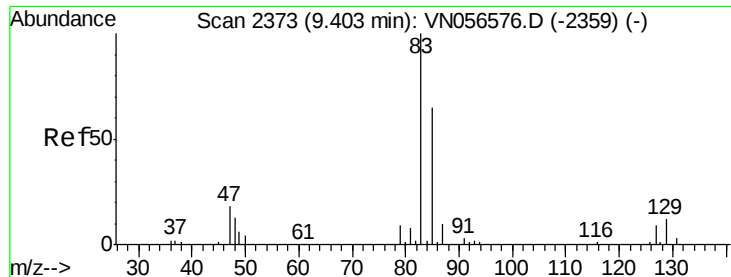
MMDadoda
 7/8/2019 10:05:20 AM



#40
 Dibromomethane
 Concen: 4.979 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion: 93 Resp: 10175
 Ion Ratio Lower Upper
 93 100
 95 87.4 0.0 169.0
 174 113.3 0.0 246.4





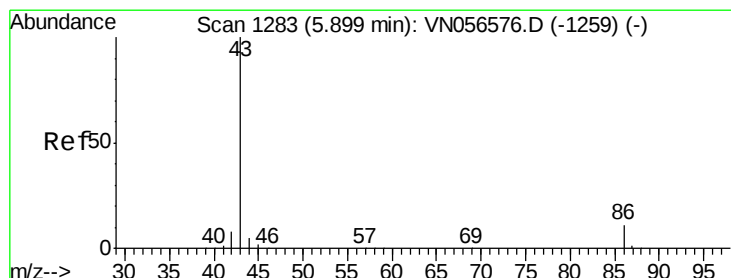
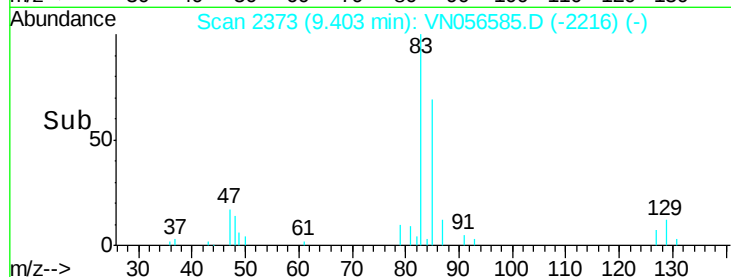
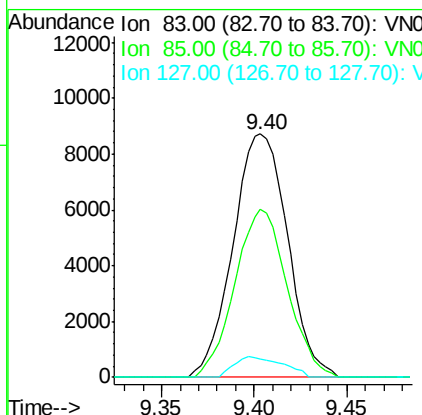
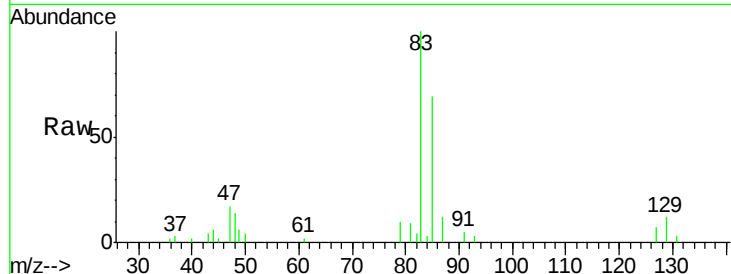
#41
Bromodichloromethane
Concen: 4.692 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	83	Resp	17769
Ion Ratio	100	Lower	Upper
83	100		
85	69.2	51.8	77.6
127	7.4	7.3	10.9

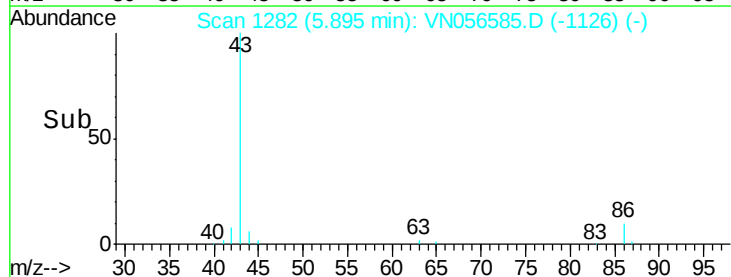
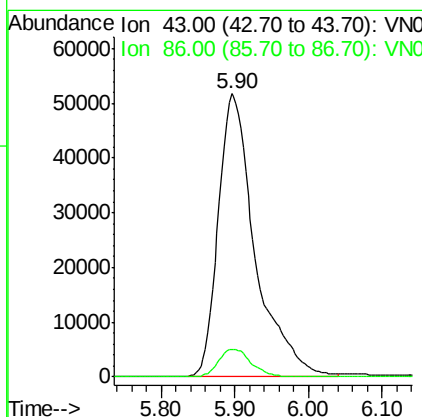
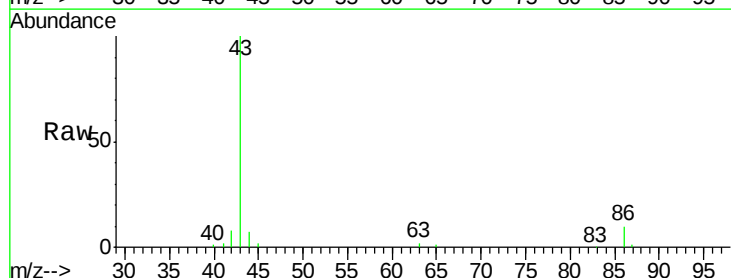
Manual Integrations
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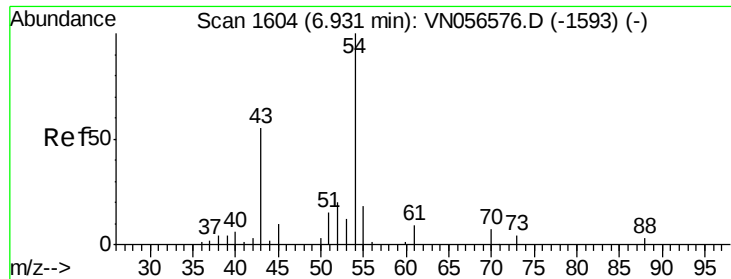
MMDadoda
7/8/2019 10:05:20 AM



#42
Vinyl Acetate
Concen: 23.276 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	43	Resp	180440
Ion Ratio	100	Lower	Upper
43	100		
86	8.6	7.9	11.9





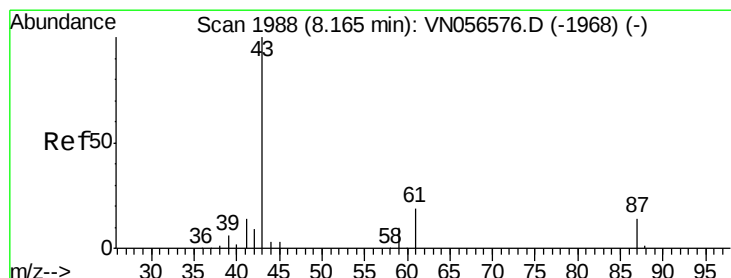
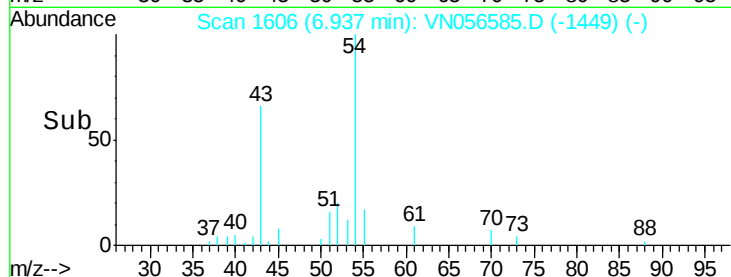
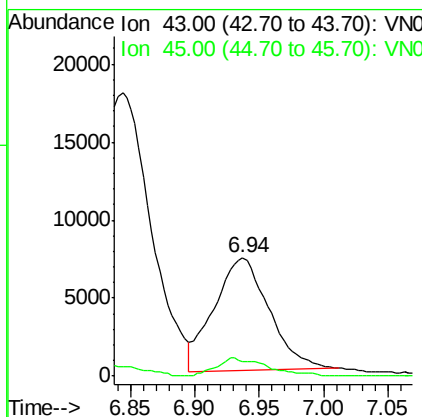
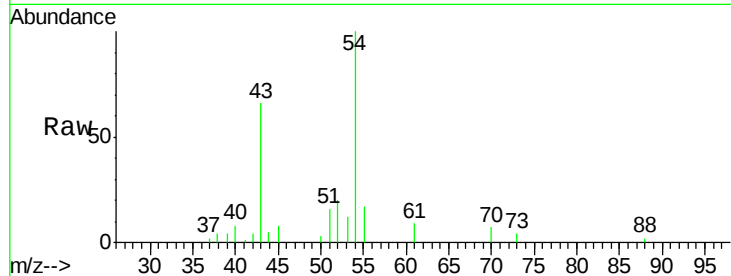
#43
Ethyl Acetate
Concen: 5.115 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 43 Resp: 21541
Ion Ratio Lower Upper
43 100
45 8.3 12.3 18.5#

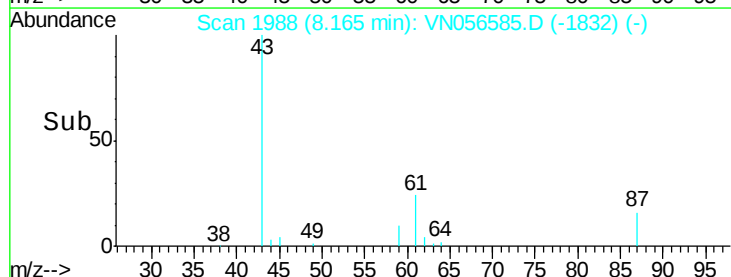
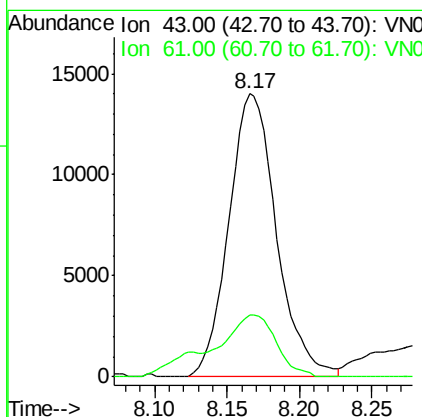
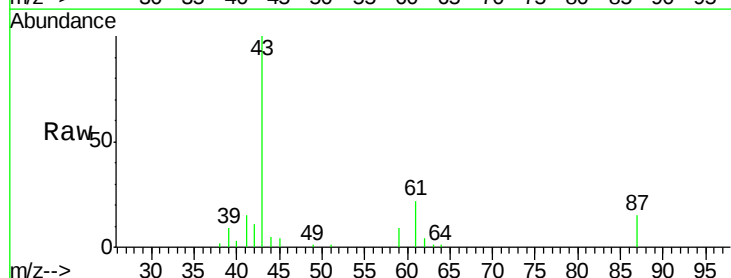
Manual Integrations
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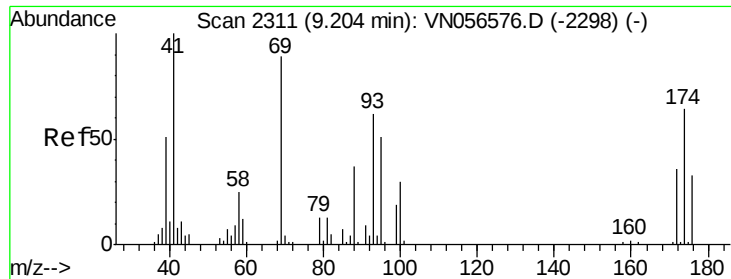
MMDadoda
7/8/2019 10:05:20 AM



#44
Isopropyl Acetate
Concen: 4.875 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 43 Resp: 32033
Ion Ratio Lower Upper
43 100
61 21.2 16.9 25.3





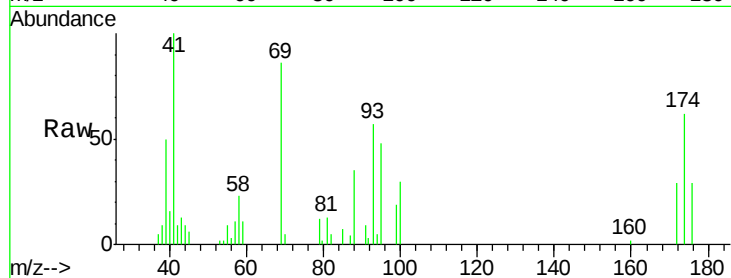
#45
1,4-Dioxane
Concen: 99.683 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.8	19.8	29.6#
58	72.7	48.5	72.7

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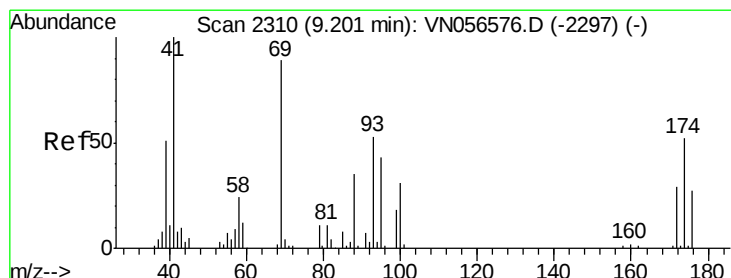
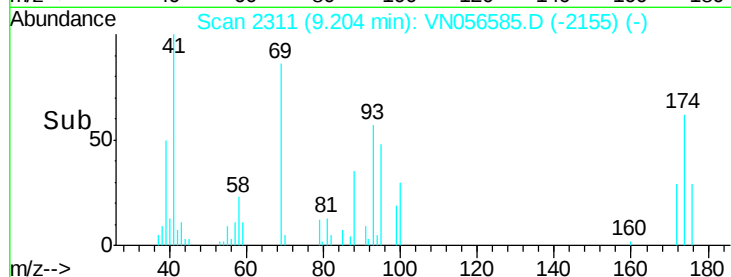
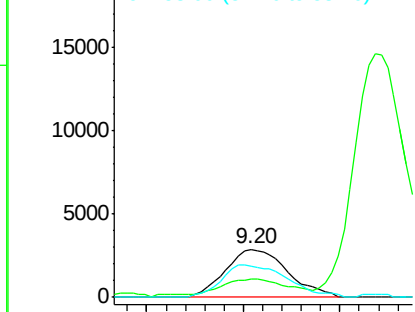


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46
Methyl methacrylate
Concen: 5.110 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

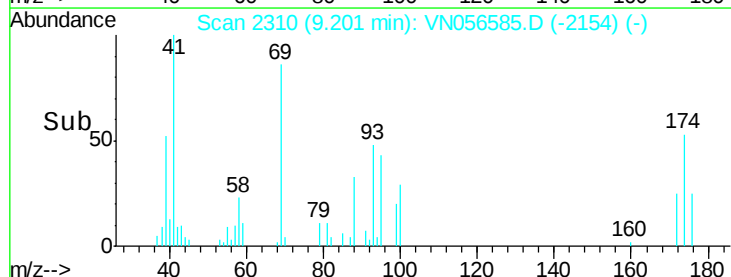
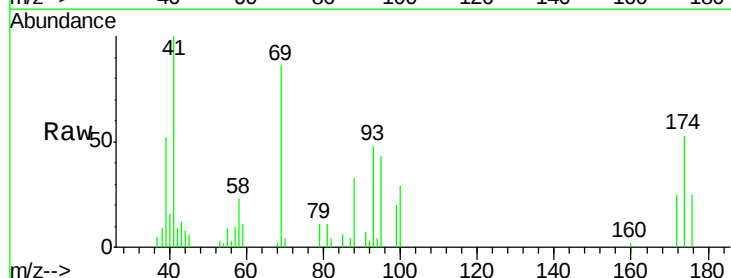
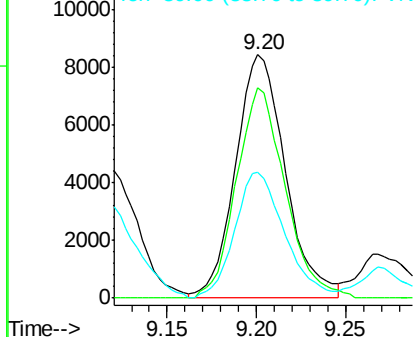
Tgt Ion	Ratio	Lower	Upper
41	100		
69	87.9	46.0	137.8
39	52.7	24.6	73.8

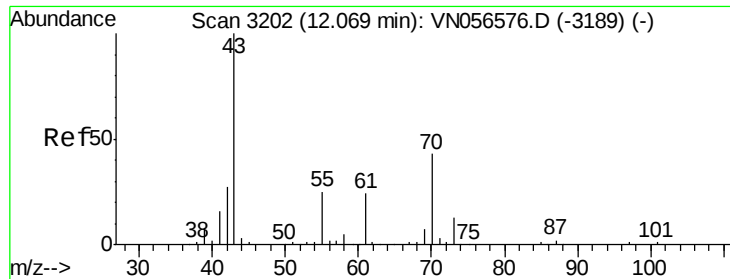
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





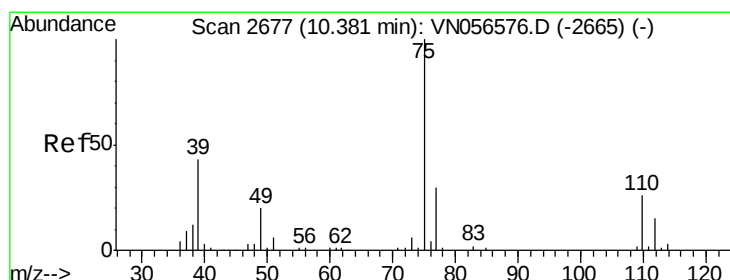
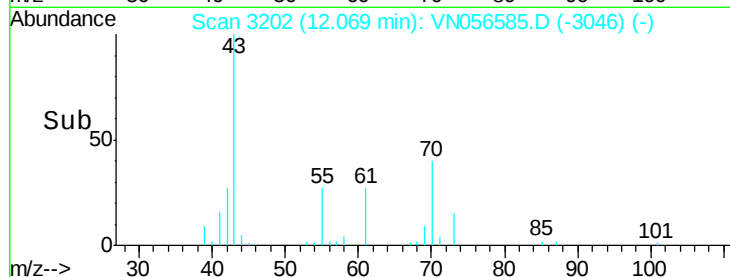
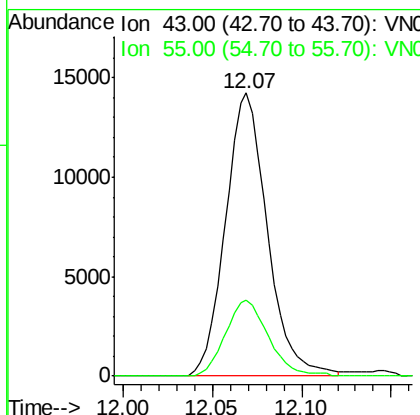
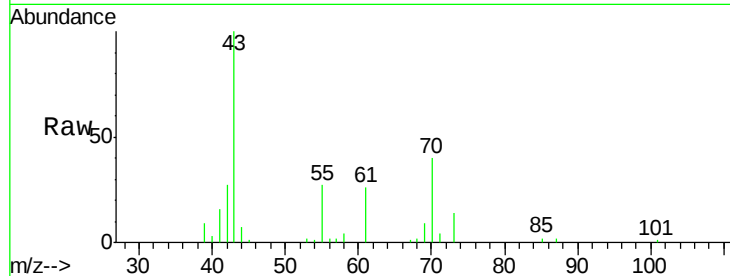
#47
n-amyl Acetate
Concen: 4.260 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 43 Resp: 23267
Ion Ratio Lower Upper
43 100
55 27.4 19.0 28.6

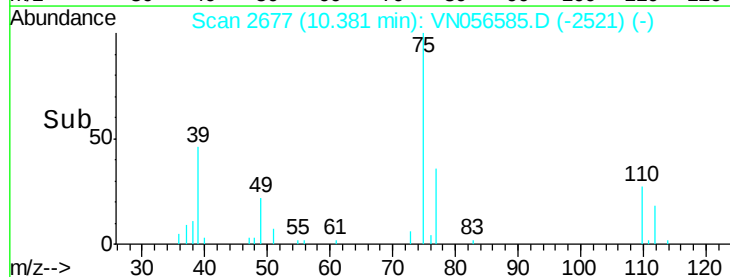
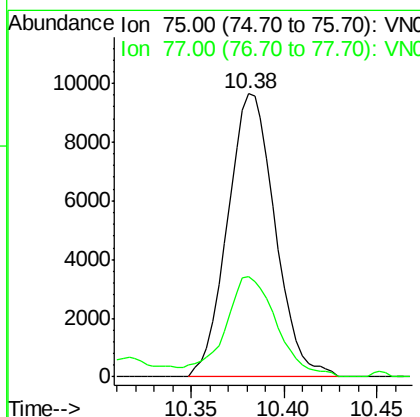
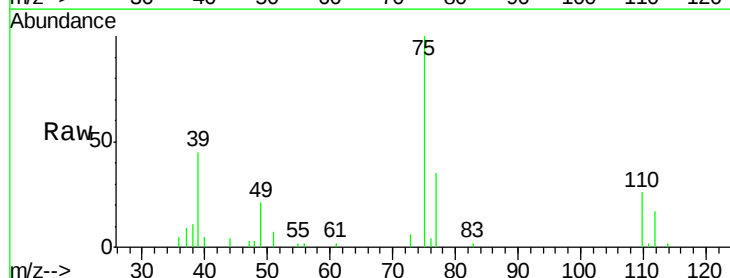
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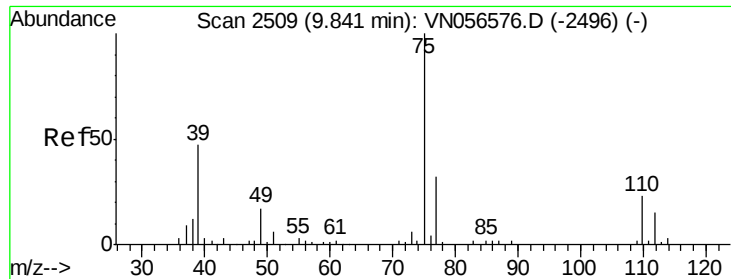
MMDadoda
7/8/2019 10:05:20 AM



#48
t-1,3-Dichloropropene
Concen: 4.217 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 75 Resp: 17116
Ion Ratio Lower Upper
75 100
77 35.3 26.0 39.0





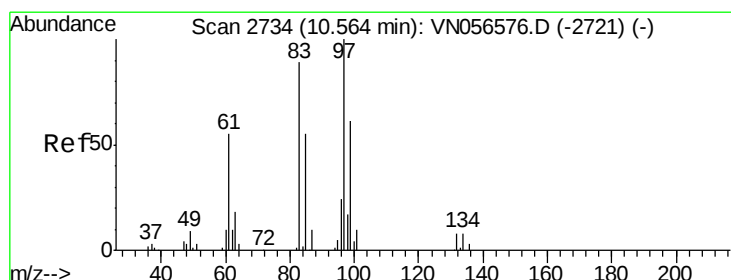
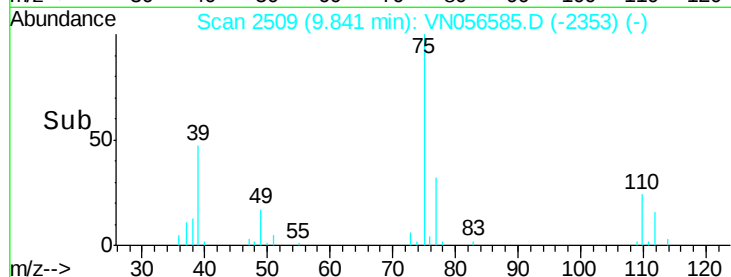
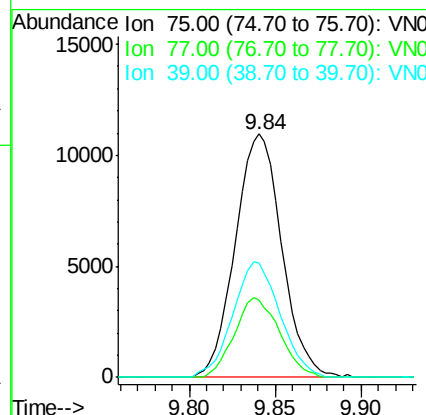
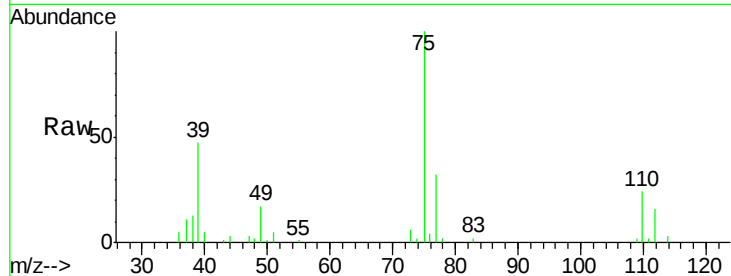
#49
 cis-1,3-Dichloropropene
 Concen: 4.401 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	46.7	34.3	51.5

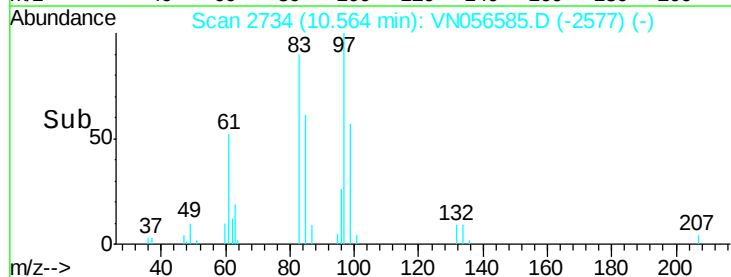
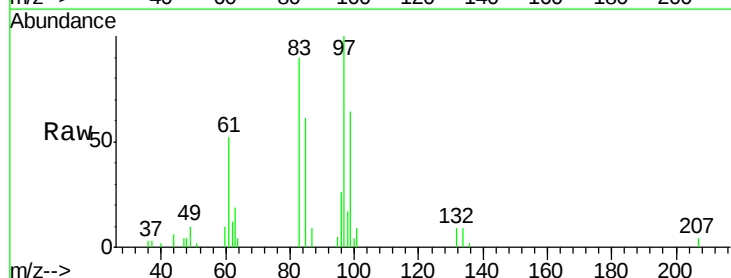
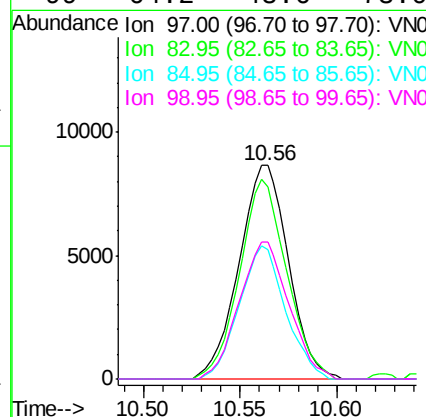
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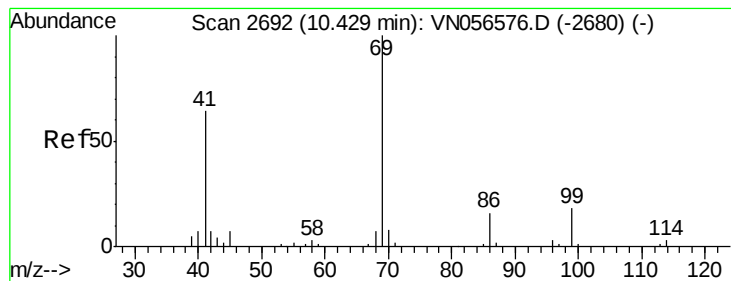
MMDadoda
 7/8/2019 10:05:20 AM



#50
 1,1,2-Trichloroethane
 Concen: 5.115 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.8	66.9	100.3
85	60.7	43.3	64.9
99	64.2	48.6	73.0





#51

Ethyl methacrylate

Concen: 4.753 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

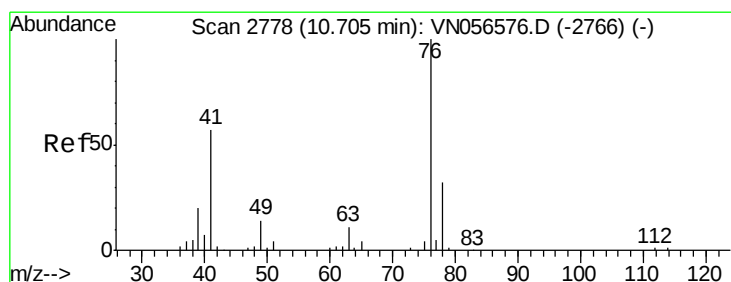
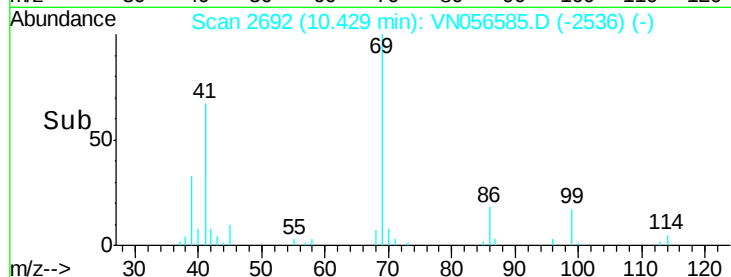
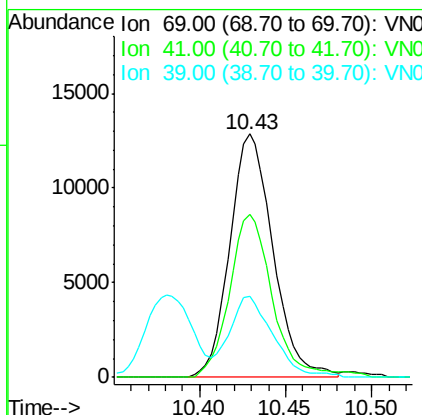
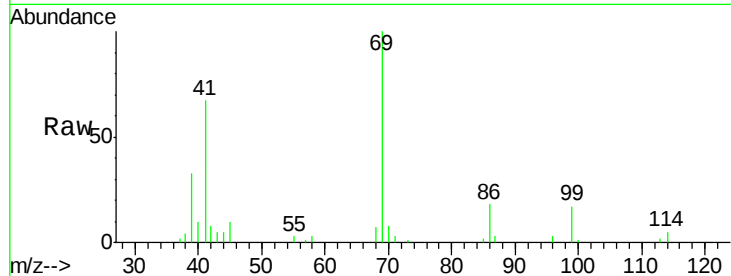
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	69	Resp:	22536
Ion Ratio	Lower	Upper	
69	100		
41	67.0	30.8	92.3
39	32.3	14.5	43.6

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#52

1,3-Dichloropropane

Concen: 5.369 ug/l

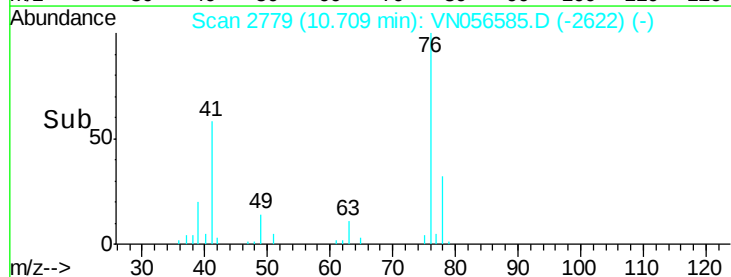
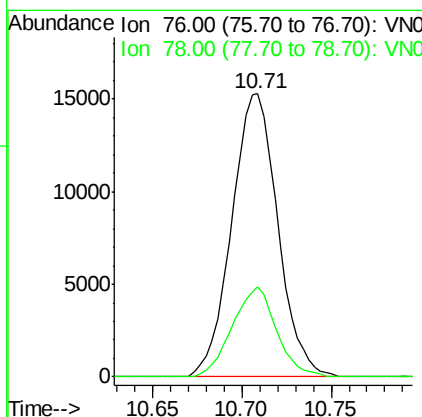
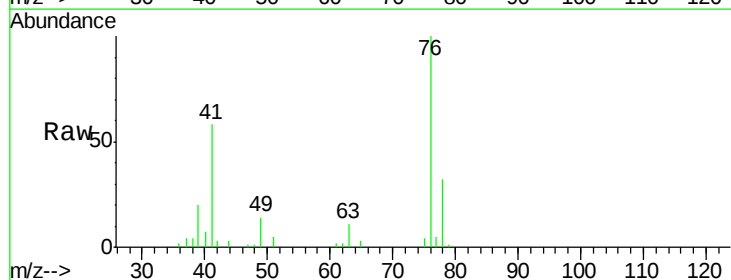
RT: 10.71 min Scan# 2779

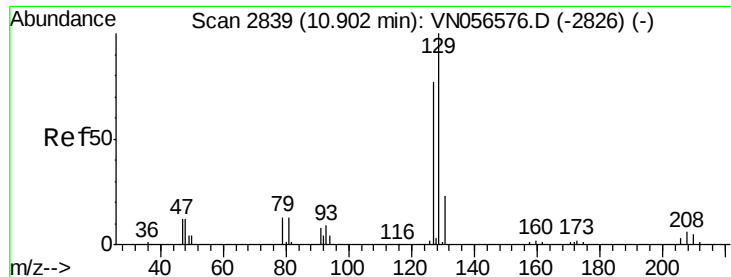
Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	76	Resp:	27466
Ion Ratio	Lower	Upper	
76	100		
78	30.5	0.0	63.4





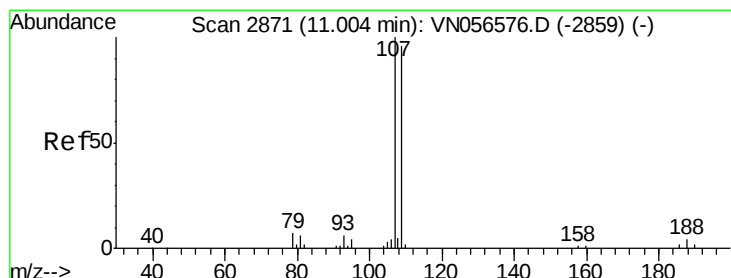
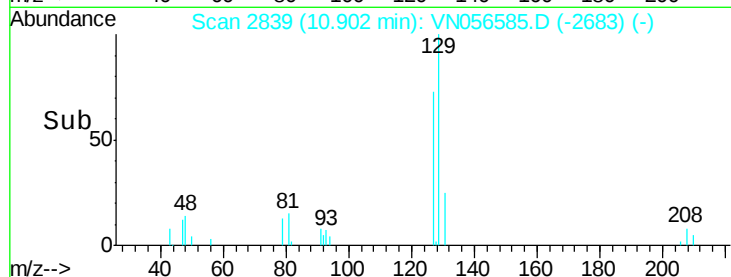
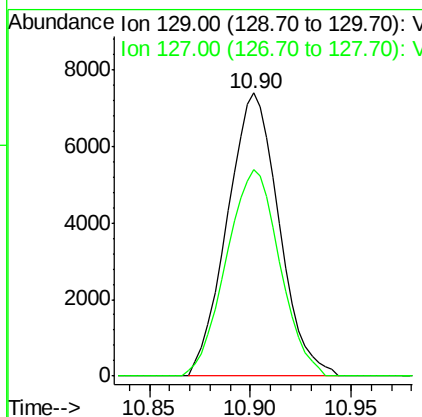
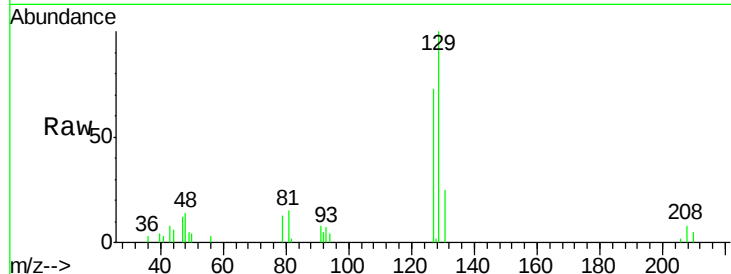
#53
 Dibromochloromethane
 Concen: 4.484 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion:129 Resp: 13230
 Ion Ratio Lower Upper
 129 100
 127 75.3 39.1 117.5

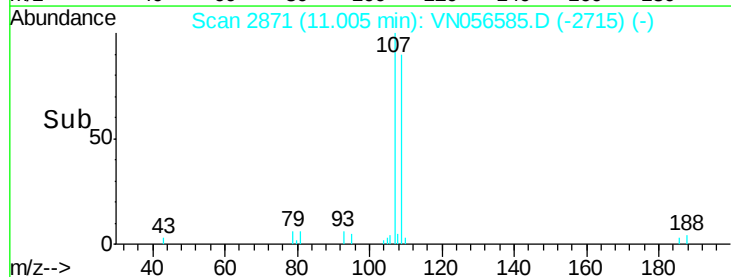
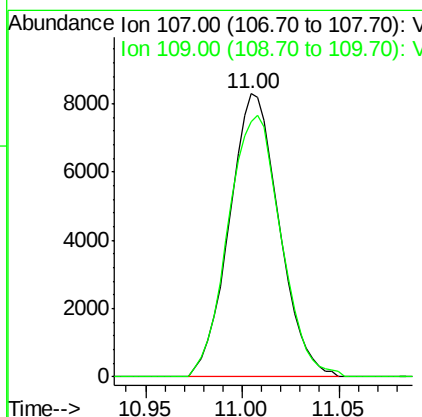
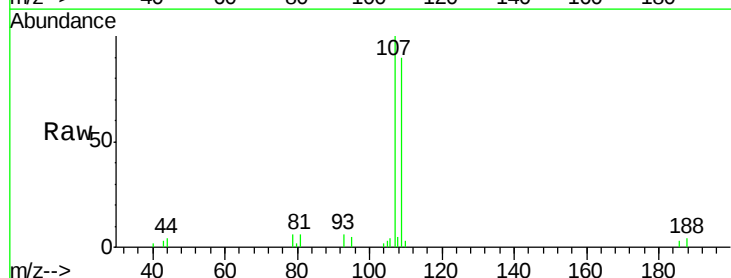
Manual Integrations
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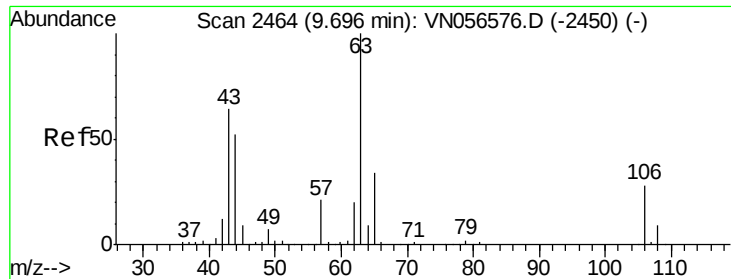
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 7/8/2019 10:05:20 AM



#54
 1,2-Dibromoethane
 Concen: 4.735 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion:107 Resp: 14852
 Ion Ratio Lower Upper
 107 100
 109 98.1 76.8 115.2





#55

2-Chloroethyl vinyl ether

Concen: 23.174 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

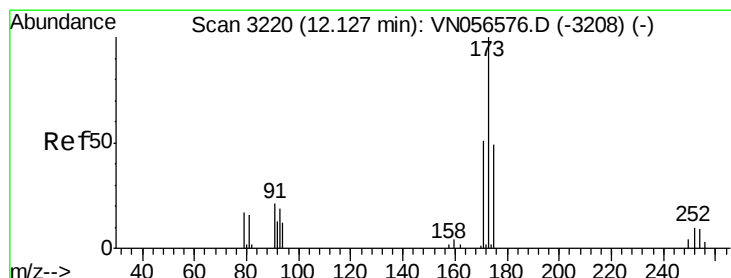
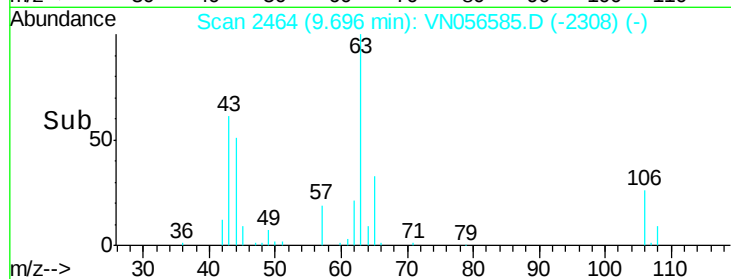
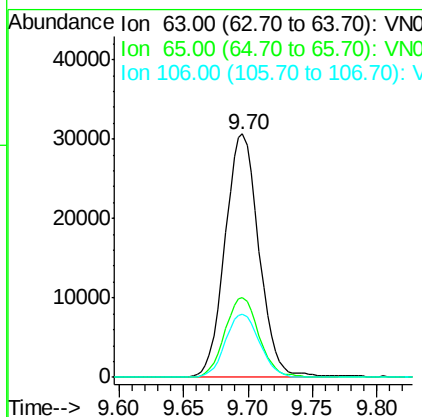
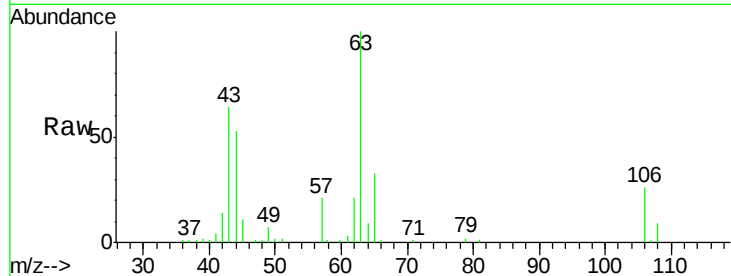
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	63	Resp:	55990
Ion	Ratio	Lower	Upper
63	100		
65	32.9	25.5	38.3
106	26.3	23.0	34.4

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#56

Bromoform

Concen: 4.055 ug/l

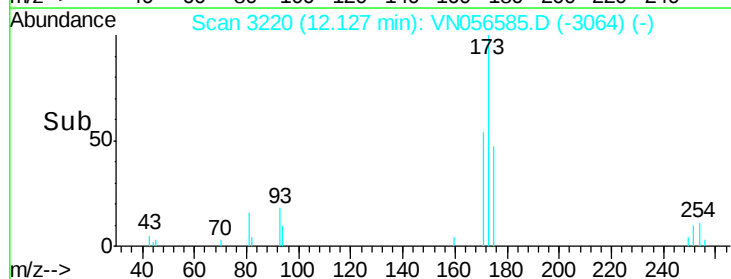
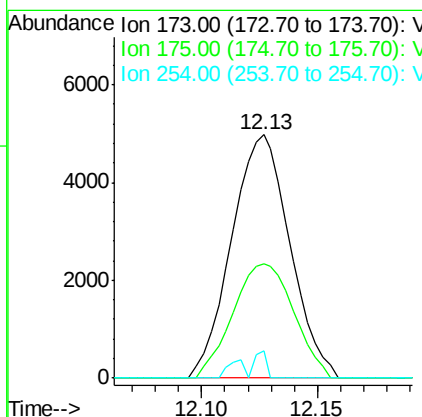
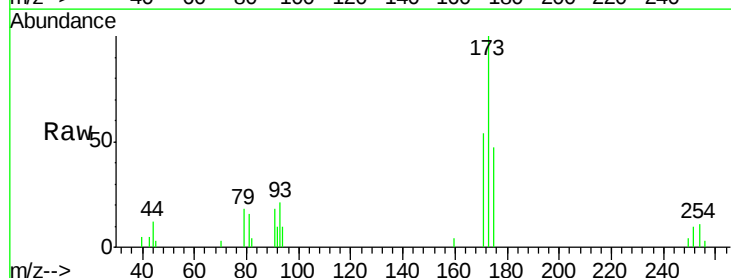
RT: 12.13 min Scan# 3220

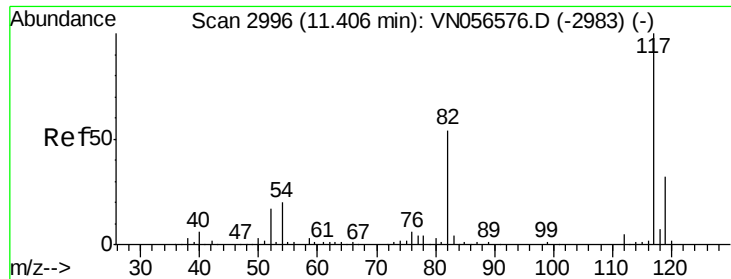
Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	173	Resp:	8695
Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.7	58.1
254	2.3	6.6	9.8#





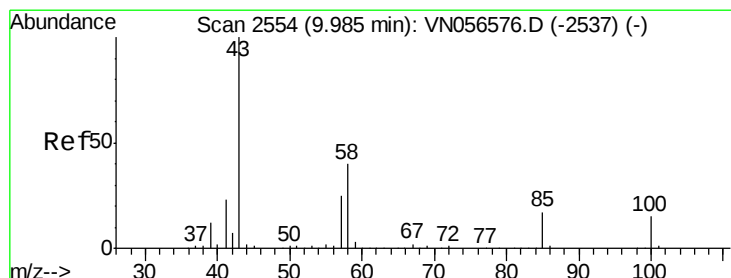
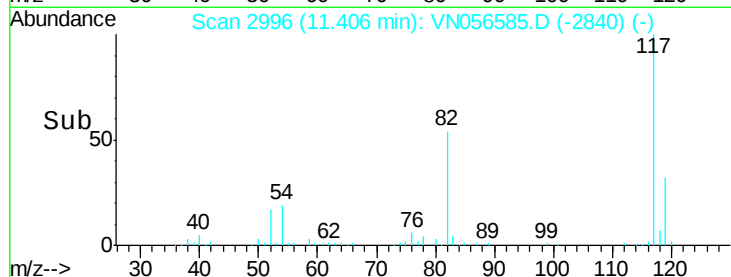
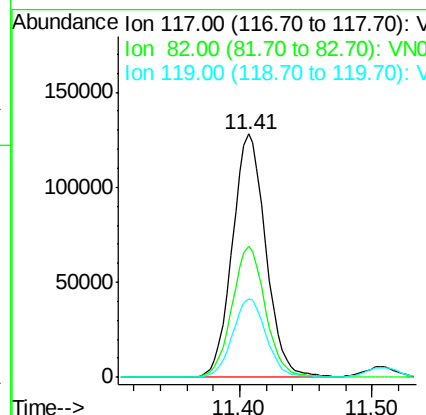
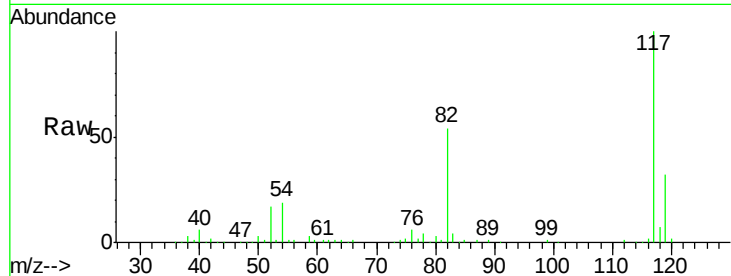
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	41.2	61.8
119	32.3	26.2	39.2

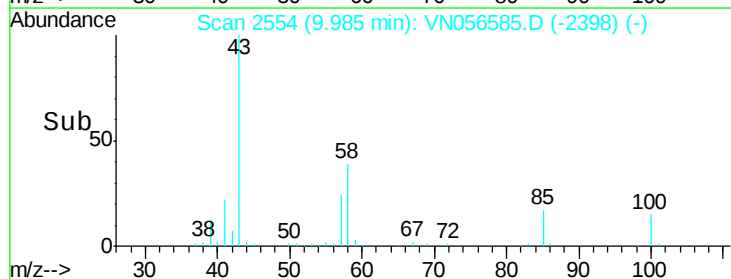
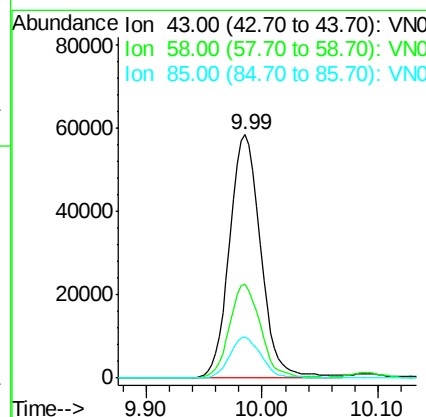
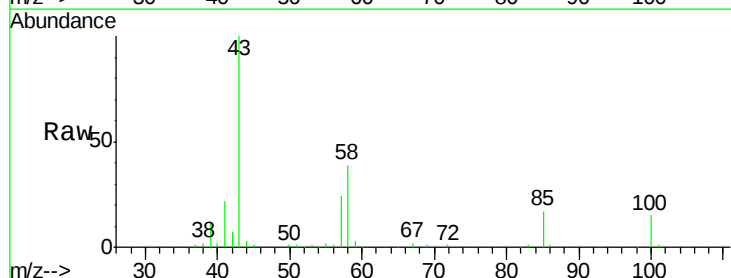
Manual Integrations
APPROVED

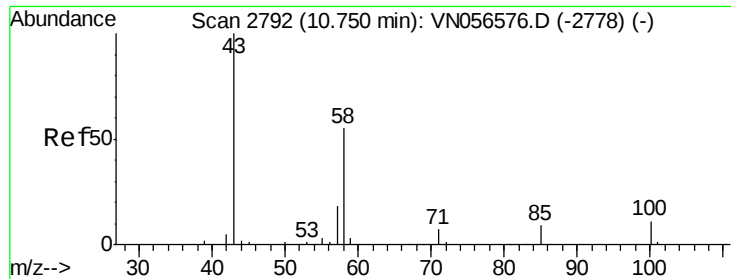
MMDadoda
7/8/2019 10:05:20 AM



#58
4-Methyl-2-Pentanone
Concen: 27.052 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.5	33.1	49.7
85	16.9	15.5	23.3





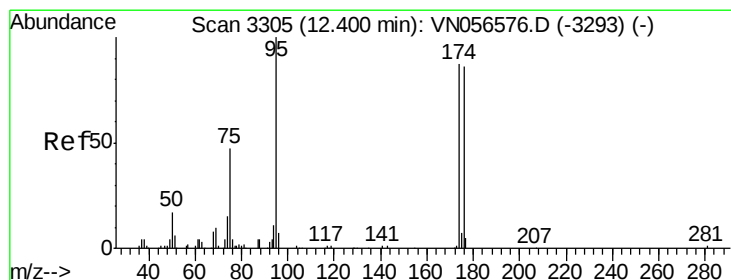
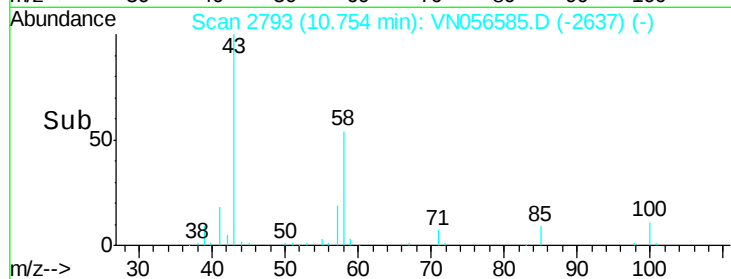
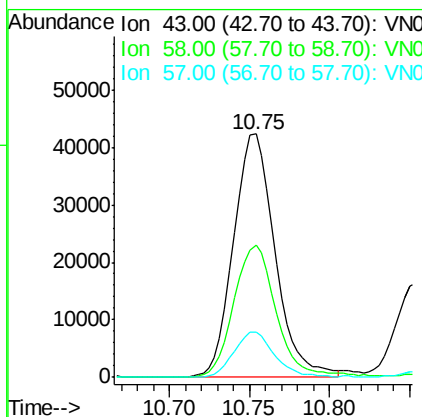
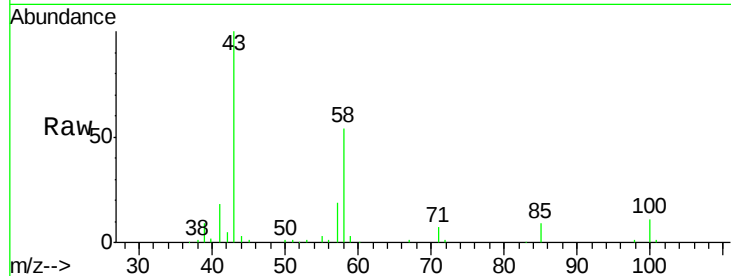
#59
2-Hexanone
Concen: 25.093 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.4	45.3	67.9
57	18.2	15.6	23.4

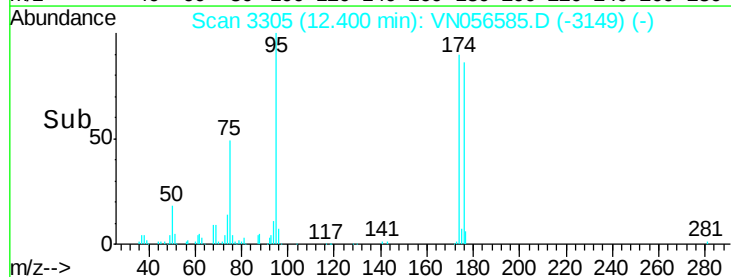
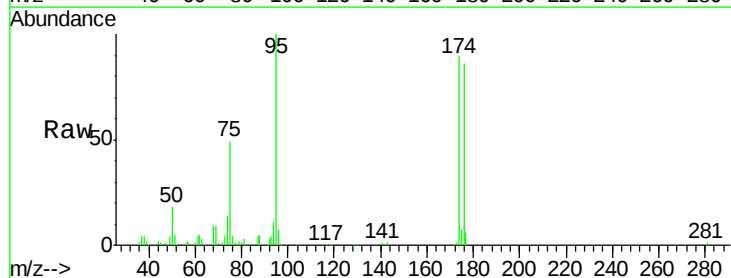
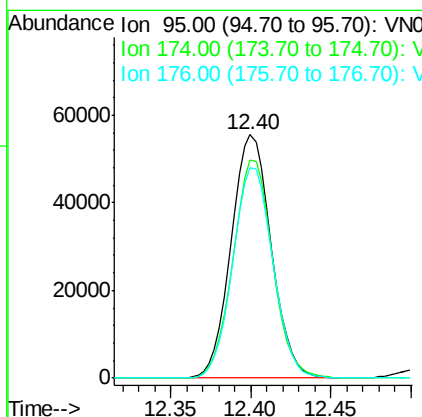
Manual Integrations
APPROVED

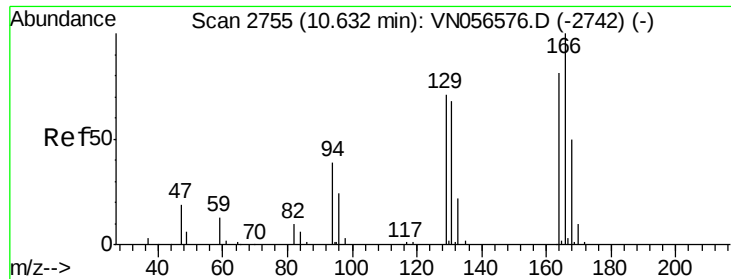
MMDadoda
7/8/2019 10:05:20 AM



#60
4-Bromofluorobenzene
Concen: 27.474 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.4	75.4	113.0
176	86.4	73.9	110.9





#61

Tetrachloroethene

Concen: 5.501 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:164 Resp: 15509

Ion Ratio Lower Upper

164 100

166 129.9 104.3 156.5

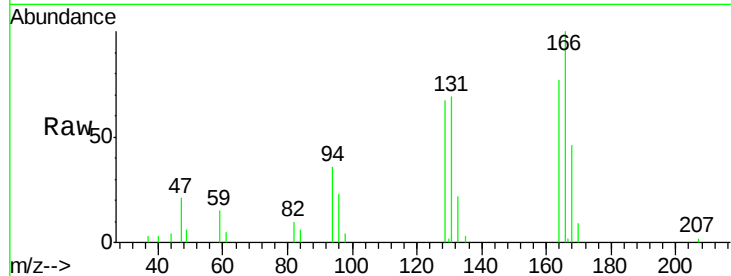
129 87.0 71.5 107.3

131 89.2 67.7 101.5

Manual Integrations
APPROVED

MMDadoda

7/8/2019 10:05:20 AM

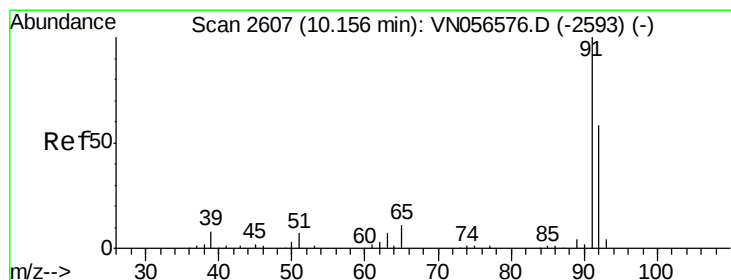
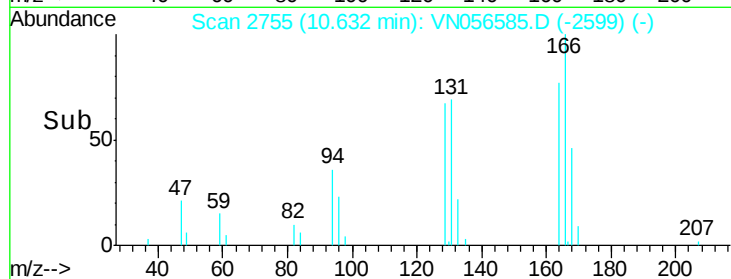
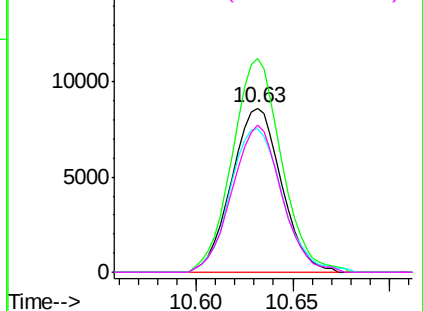


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 5.333 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056585.D

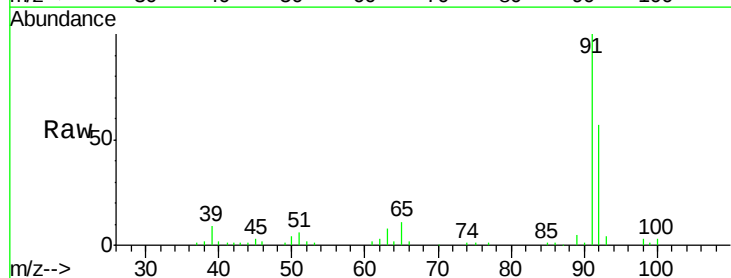
Acq: 3 Jul 2019 14:11

Tgt Ion: 91 Resp: 66860

Ion Ratio Lower Upper

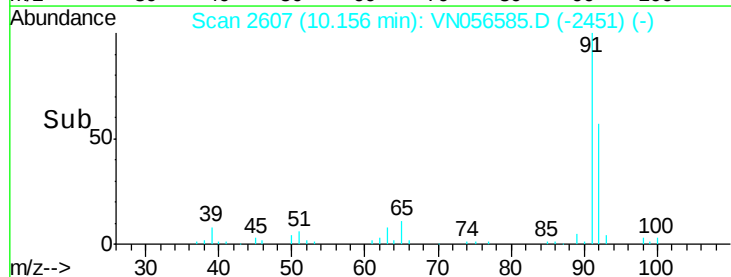
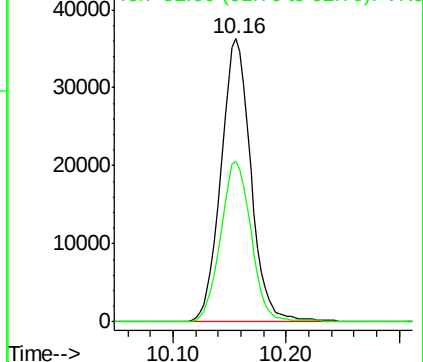
91 100

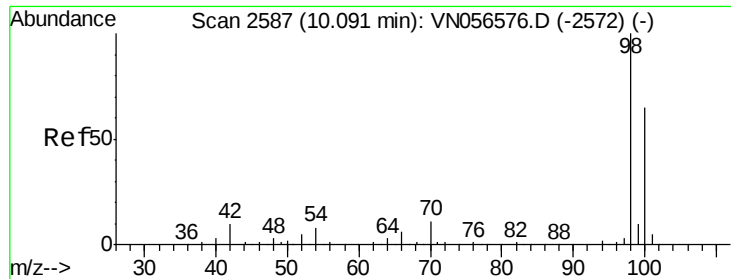
92 57.3 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





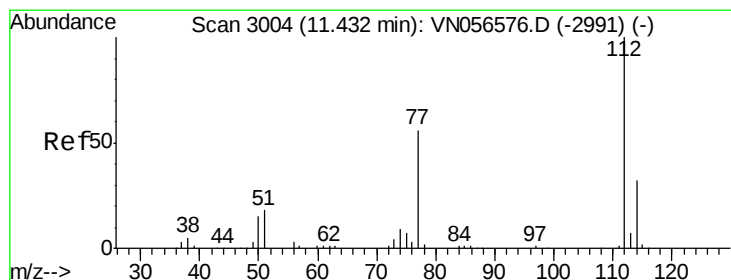
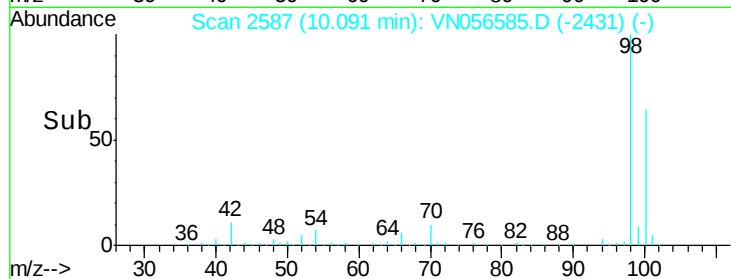
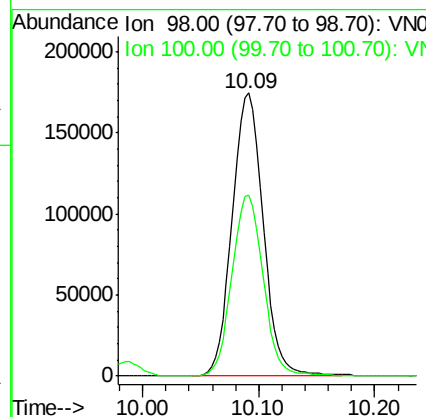
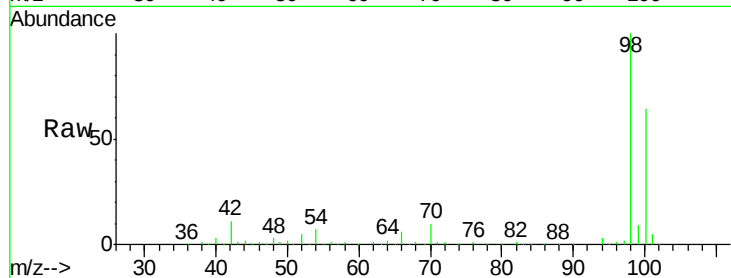
#63
Toluene-d8
Concen: 30.989 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion: 98 Resp: 323459
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.4

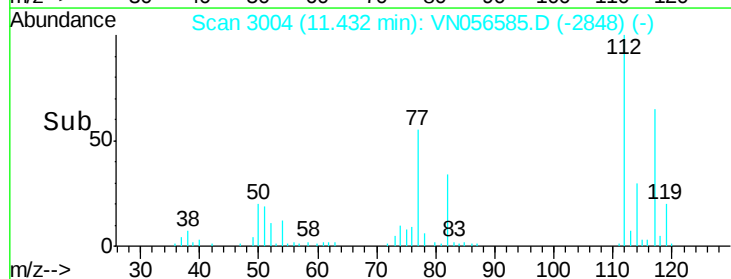
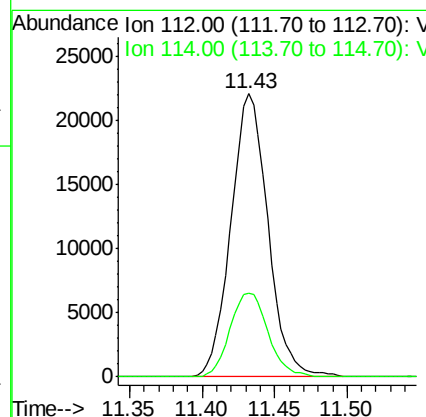
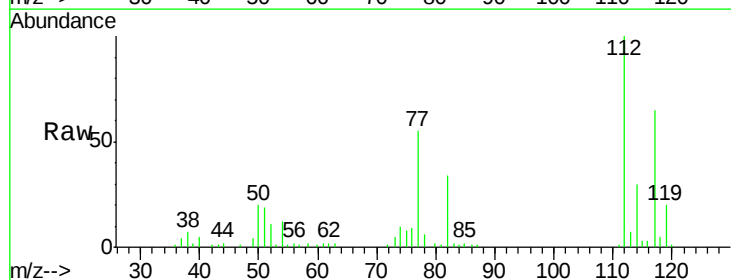
Manual Integrations
APPROVED

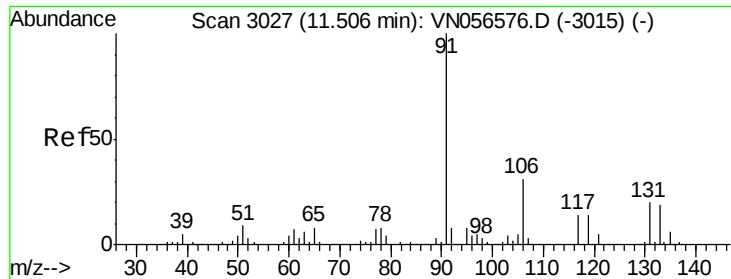
MMDadoda
7/8/2019 10:05:20 AM



#64
Chlorobenzene
Concen: 5.179 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion: 112 Resp: 39114
Ion Ratio Lower Upper
112 100
114 29.7 26.1 39.1





#65

1,1,1,2-Tetrachloroethane

Concen: 5.037 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

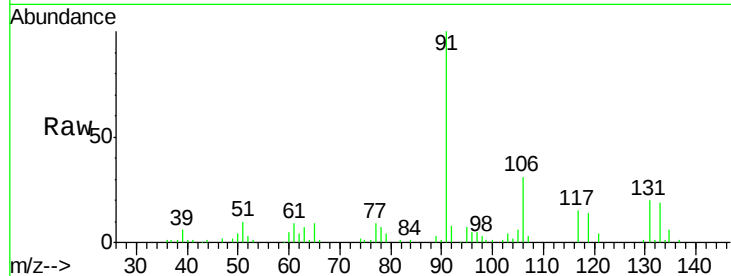
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	131	Resp:	13700
Ion Ratio	Lower	Upper	
131	100		
133	93.2	0.0	193.8
119	67.6	0.0	134.4

Manual Integrations
APPROVED

MMDadoda
7/8/2019 10:05:20 AM

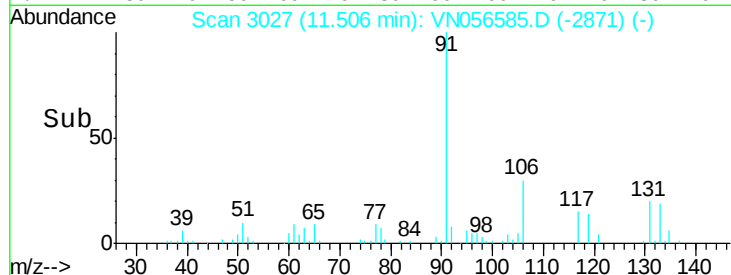


Abundance Ion 131.00 (130.70 to 131.70): V

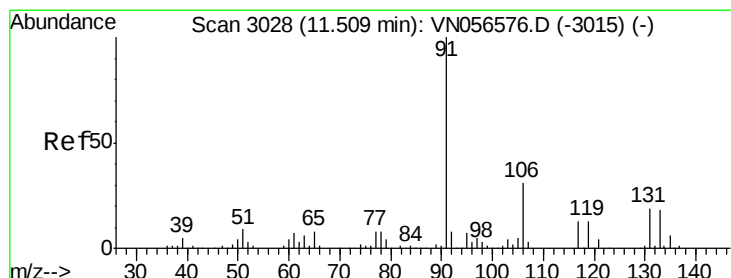
Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

Time-->



Time-->



#66

Ethyl Benzene

Concen: 5.098 ug/l

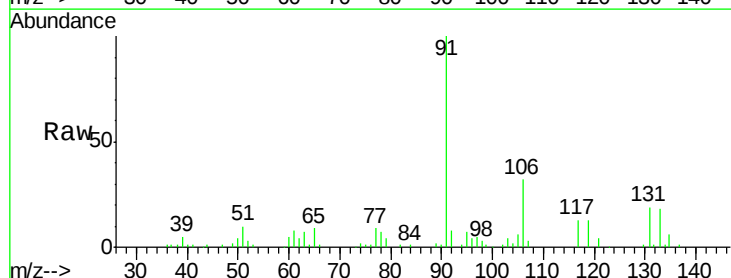
RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

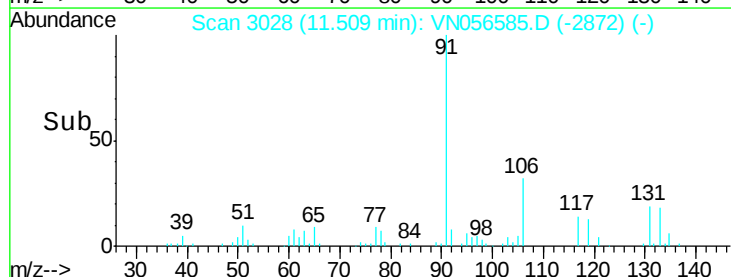
Tgt Ion:	91	Resp:	69299
Ion Ratio	Lower	Upper	
91	100		
106	32.2	25.7	38.5



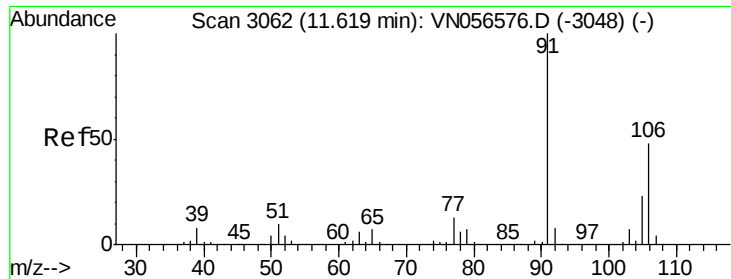
Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

Time-->



Time-->



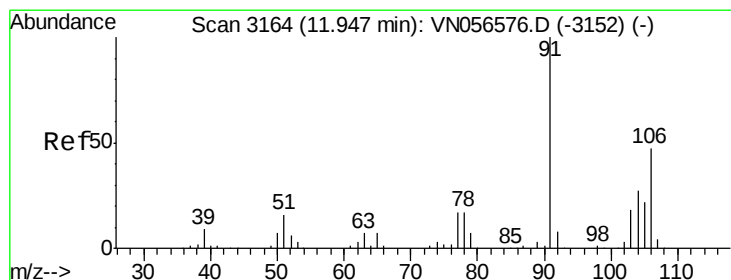
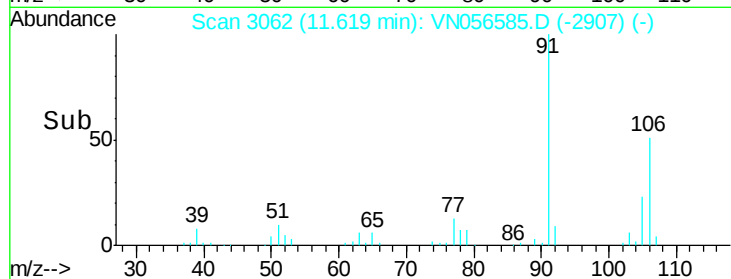
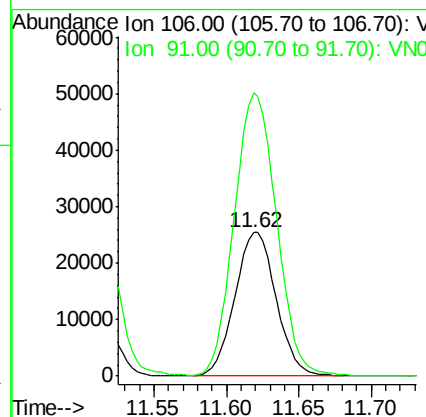
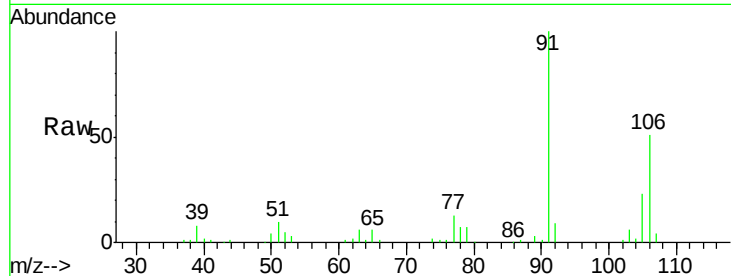
#67
m/p-Xvlenes
Concen: 10.081 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion:106 Resp: 50572
Ion Ratio Lower Upper
106 100
91 201.4 155.7 233.5

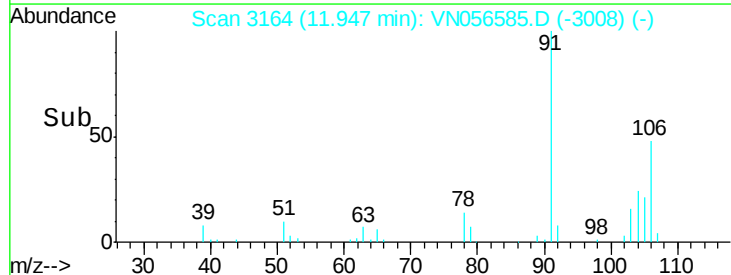
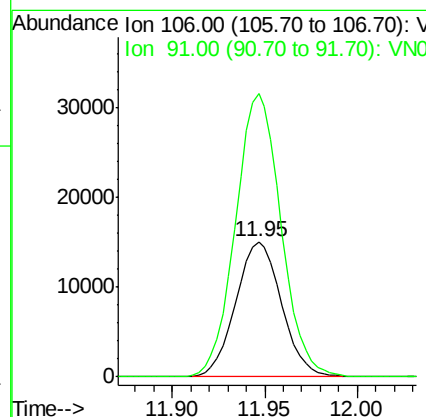
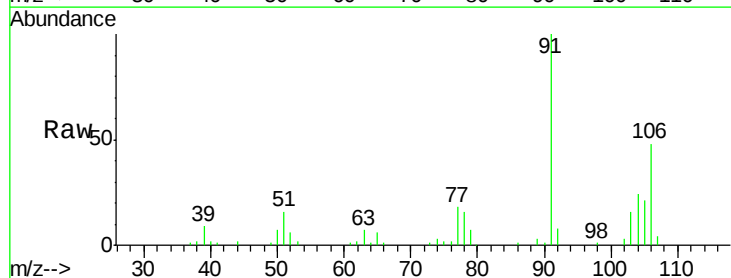
Manual Integrations
APPROVED

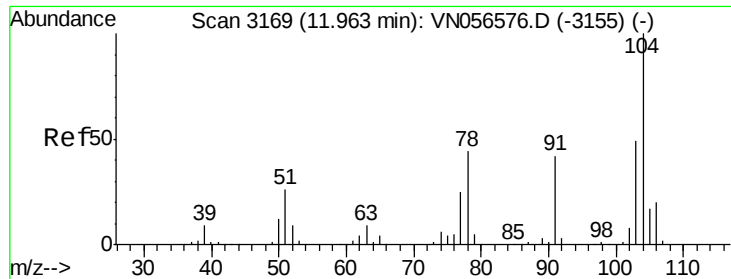
MMDadoda
7/8/2019 10:05:20 AM



#68
o-Xylene
Concen: 5.203 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion:106 Resp: 25811
Ion Ratio Lower Upper
106 100
91 208.5 103.9 311.7





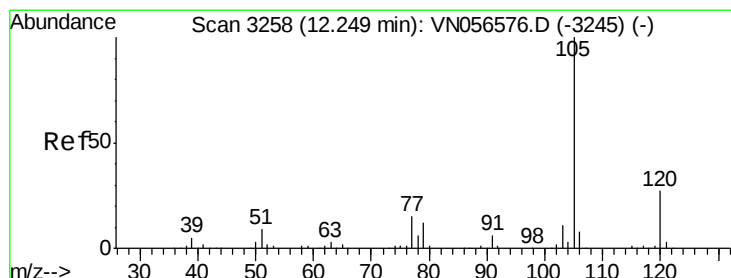
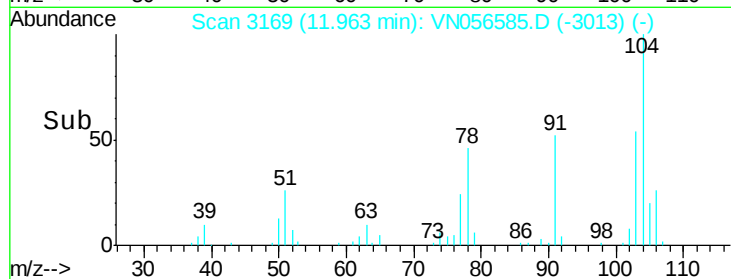
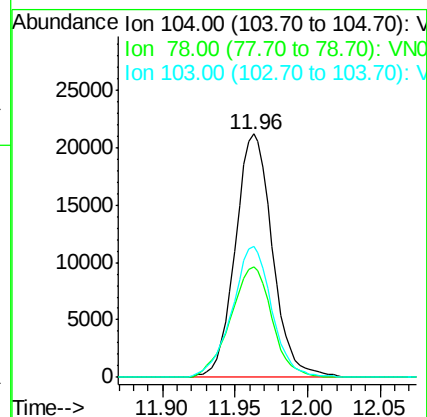
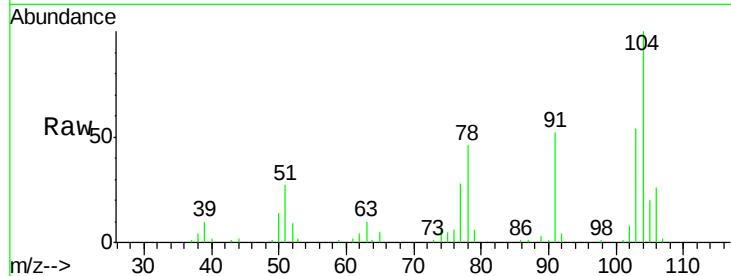
#69
Stvrene
Concen: 4.578 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.4	37.0	55.6
103	57.2	44.4	66.6

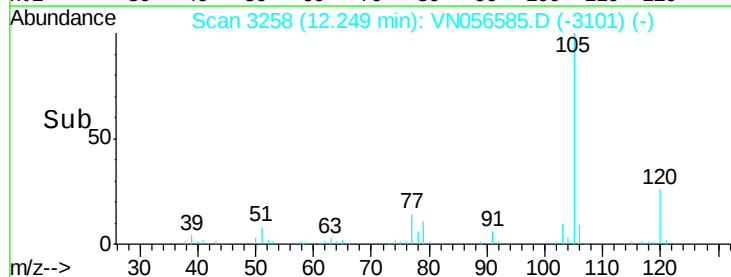
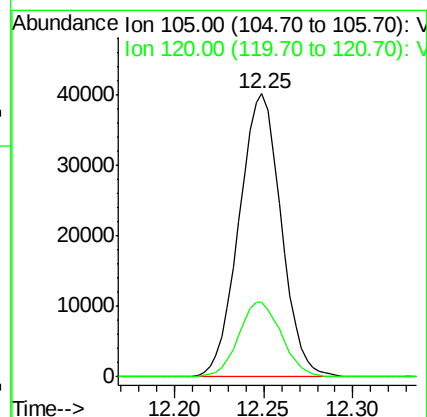
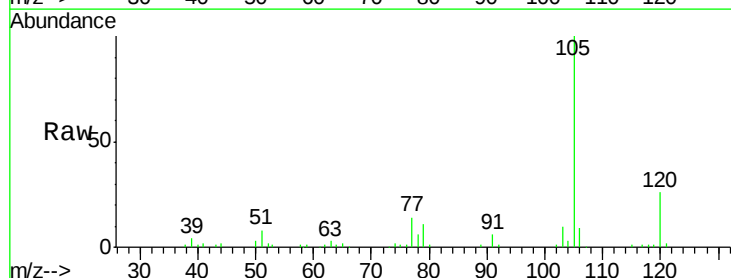
Manual Integrations
APPROVED

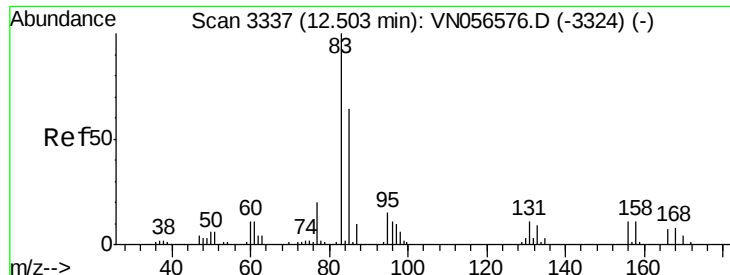
MMDadoda
7/8/2019 10:05:20 AM



#70
Isopropylbenzene
Concen: 5.086 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	19.3	35.8





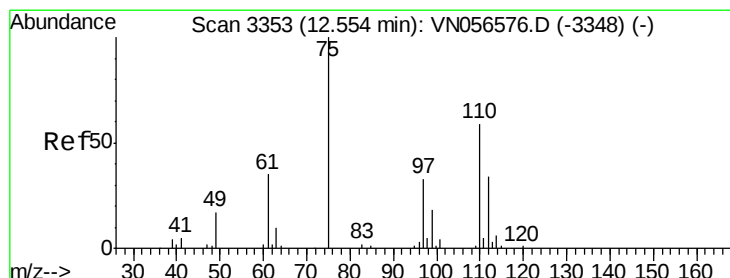
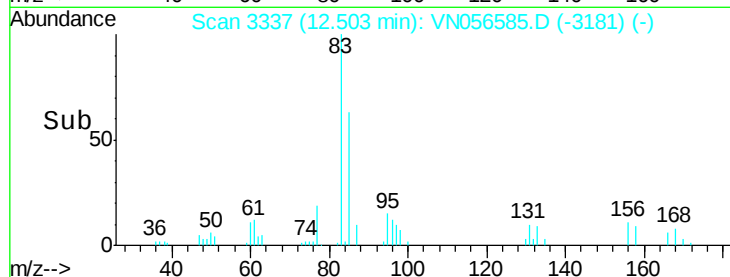
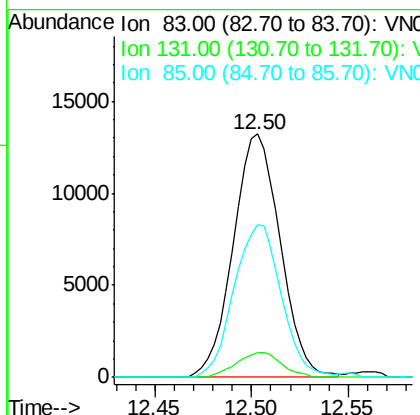
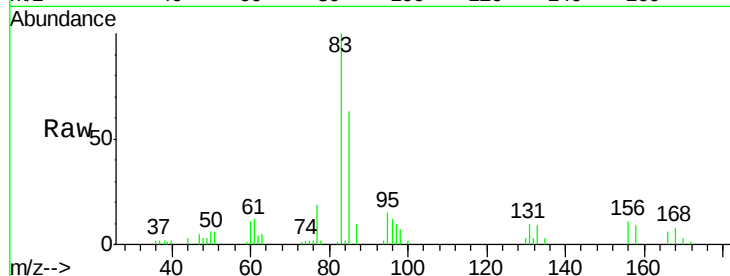
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.226 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	83	Resp	22363
Ion Ratio	100	Lower	Upper
83	100		
131	9.7	5.2	15.6
85	63.1	31.6	94.7

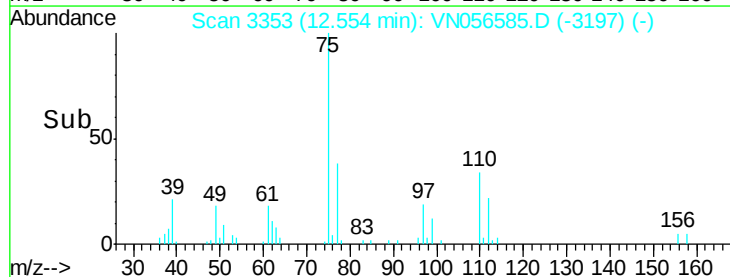
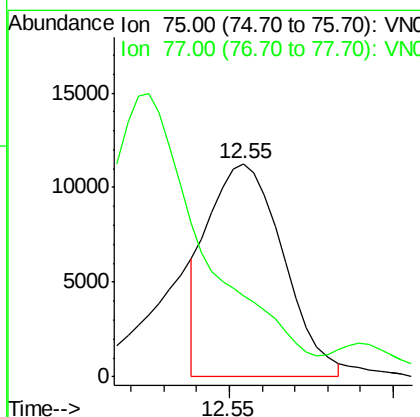
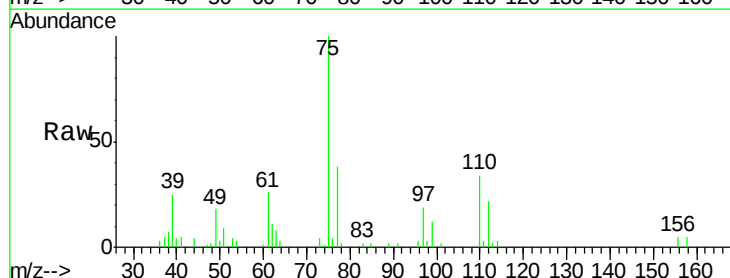
Manual Integrations
 APPROVED

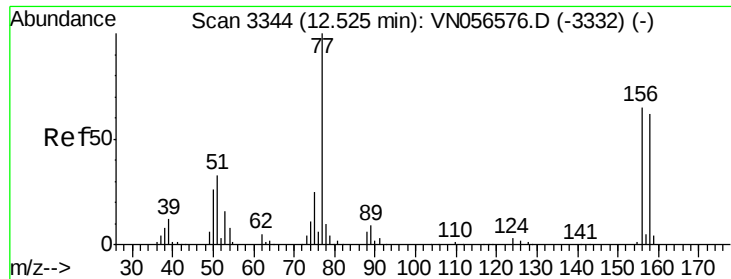
MMDadoda
 7/8/2019 10:05:20 AM



#72
 1,2,3-Trichloropropane
 Concen: 4.966 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion	75	Resp	17870
Ion Ratio	100	Lower	Upper
75	100		
77	179.5	0.0	350.0





#73

Bromobenzene

Concen: 4.782 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

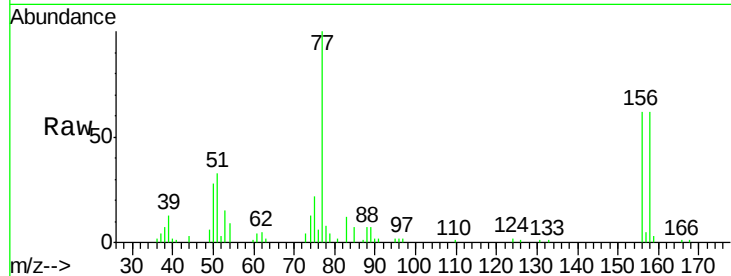
ClientSampleId :

LOQ-WATER-02-QT3-2019

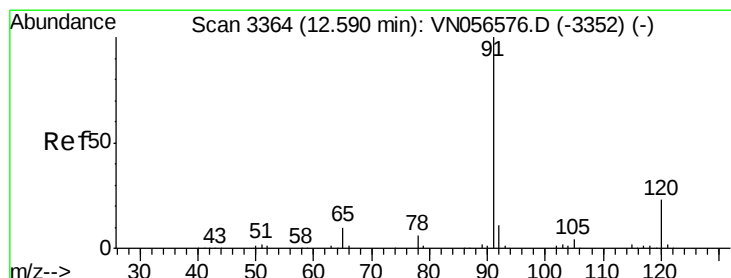
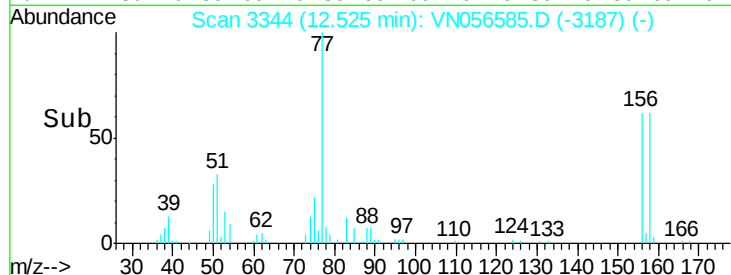
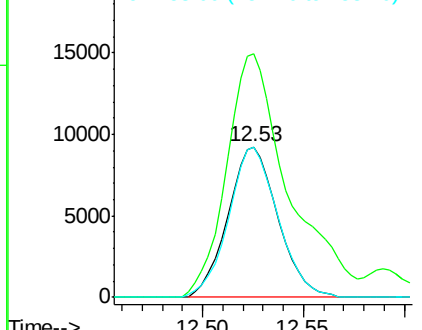
Tot Ion:	156	Resp:	15963
Ion Ratio	Lower	Upper	
156	100		
77	201.0	0.0	350.8
158	98.7	0.0	193.2

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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VN
Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.753 ug/l

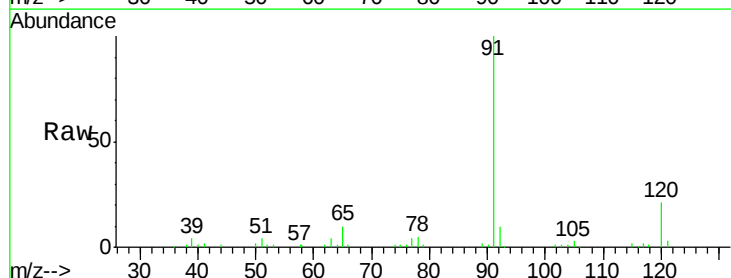
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

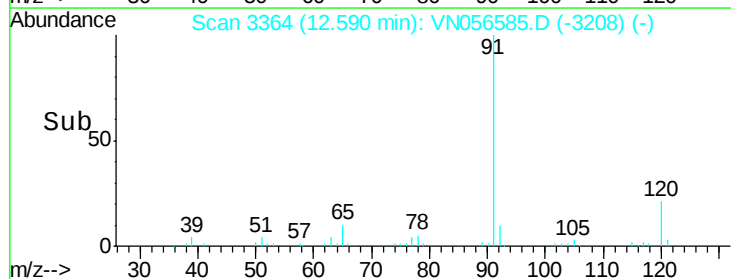
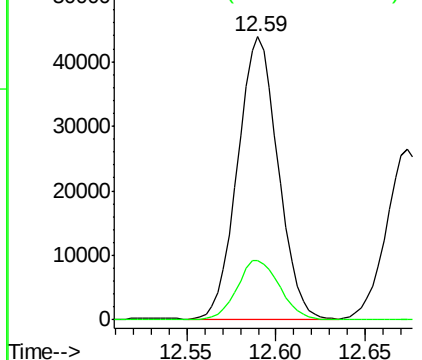
Lab File: VN056585.D

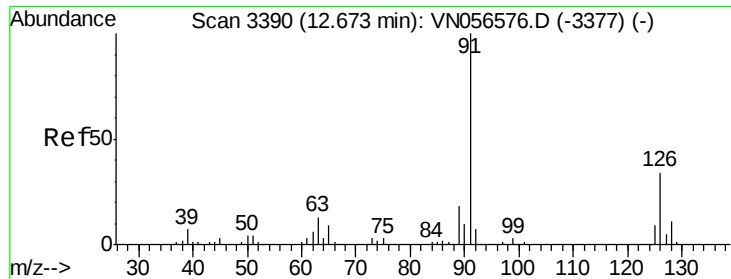
Acq: 3 Jul 2019 14:11

Tgt Ion:	91	Resp:	69797
Ion Ratio	Lower	Upper	
91	100		
120	22.1	0.0	48.6



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.978 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion: 91 Resp: 43714

Ion Ratio Lower Upper

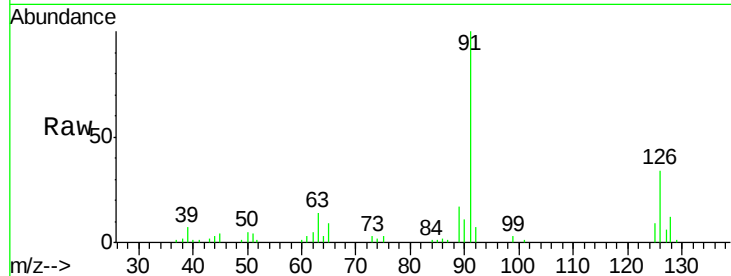
91 100

126 34.3 0.0 72.4

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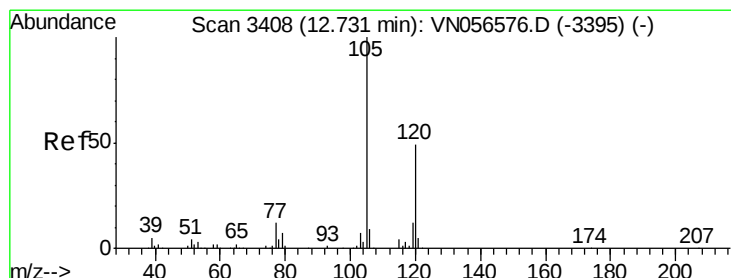
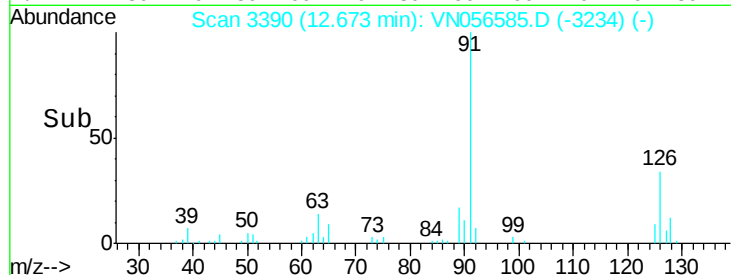
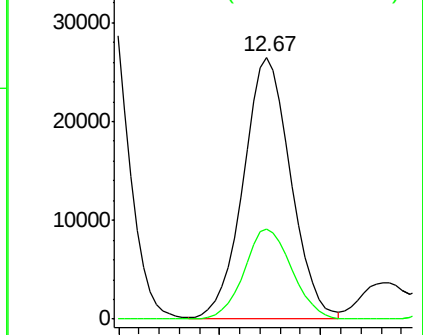
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Abundance Ion 91.00 (90.70 to 91.70): VN056576.D (-3377) (-)

Ion 126.00 (125.70 to 126.70): VN056576.D (-3377) (-)



#76

1,3,5-Trimethylbenzene

Concen: 4.926 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056585.D

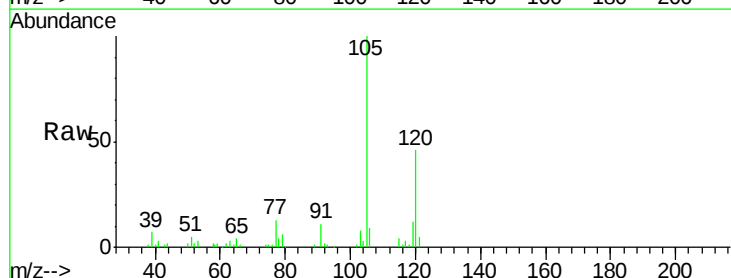
Acq: 3 Jul 2019 14:11

Tgt Ion: 105 Resp: 53988

Ion Ratio Lower Upper

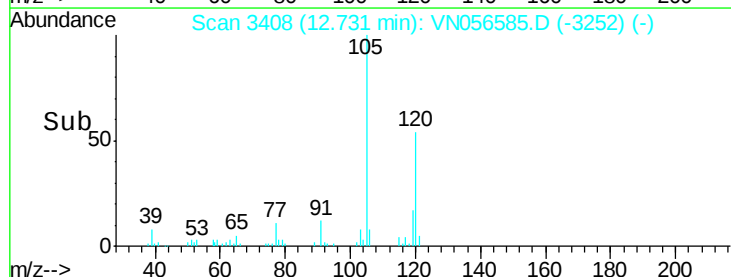
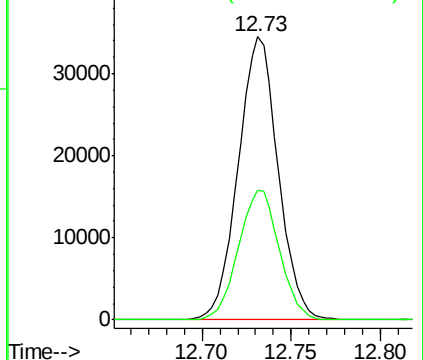
105 100

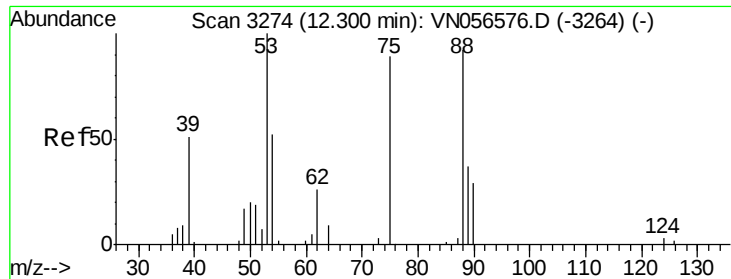
120 46.8 0.0 100.6



Abundance Ion 105.00 (104.70 to 105.70): VN056576.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN056576.D (-3395) (-)





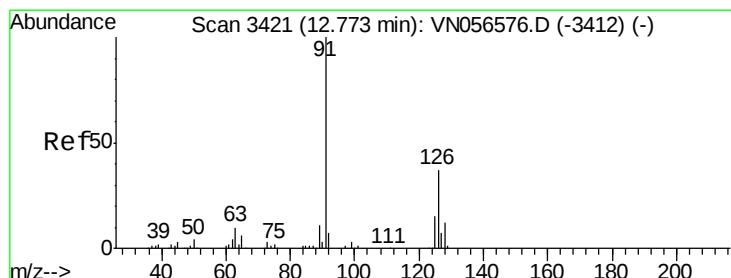
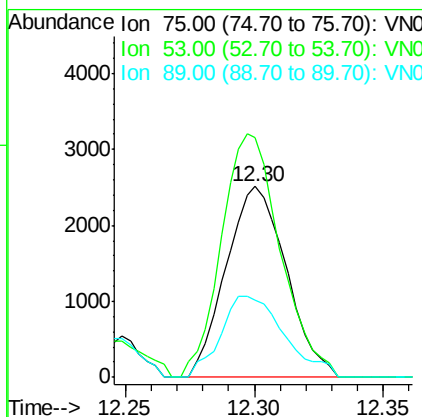
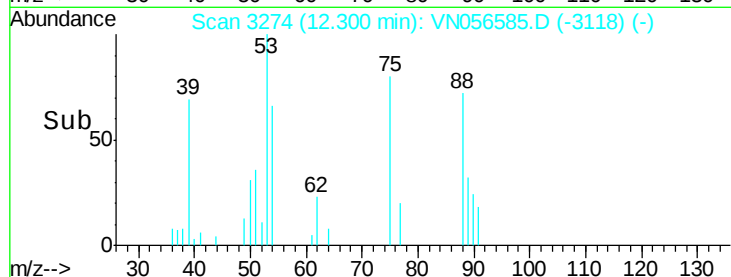
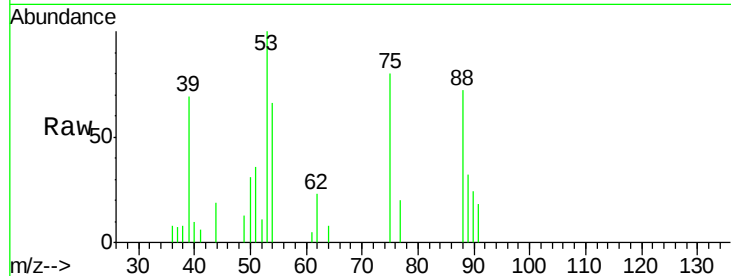
#77
t-1,4-Dichloro-2-butene
Concen: 3.554 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	125.3	48.0	144.0
89	40.3	22.5	67.5

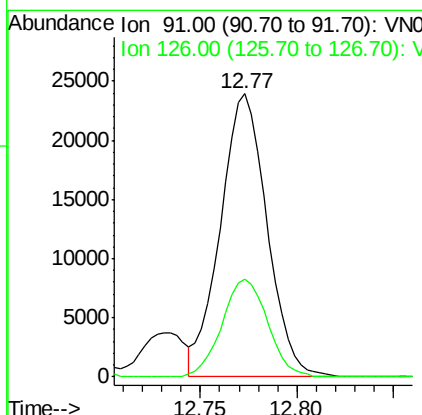
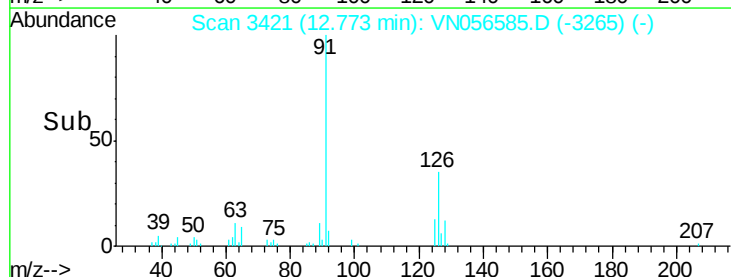
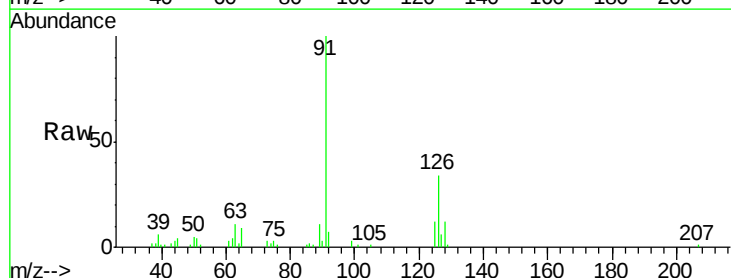
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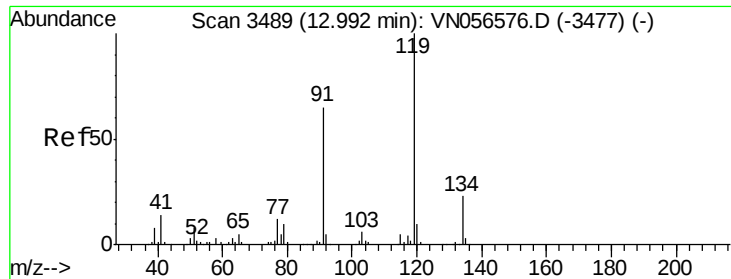
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#78
4-Chlorotoluene
Concen: 4.697 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.6	0.0	71.8





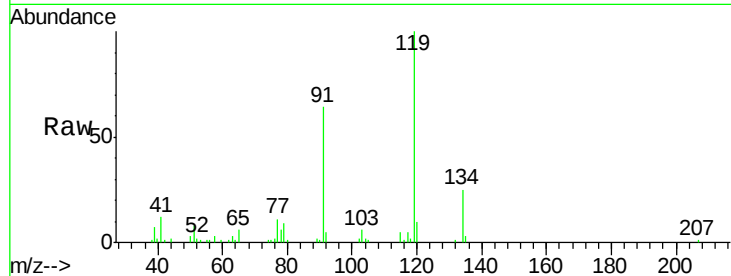
#79
tert-butylbenzene
Concen: 5.014 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT3-2019

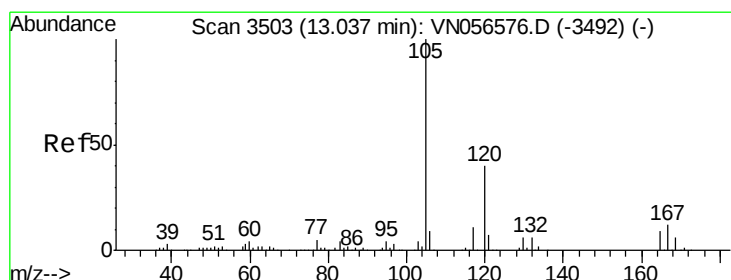
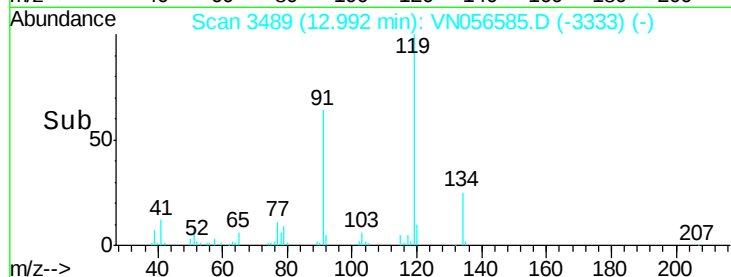
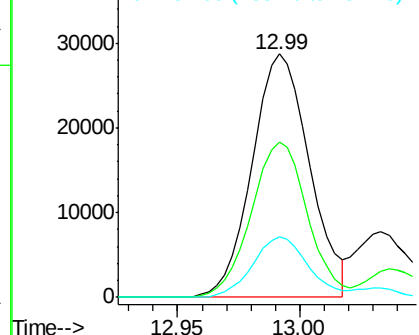
Tot Ion	Ratio	Resp	Lower	Upper
119	100	46953		
91	62.4		0.0	122.8
134	24.0		0.0	50.2

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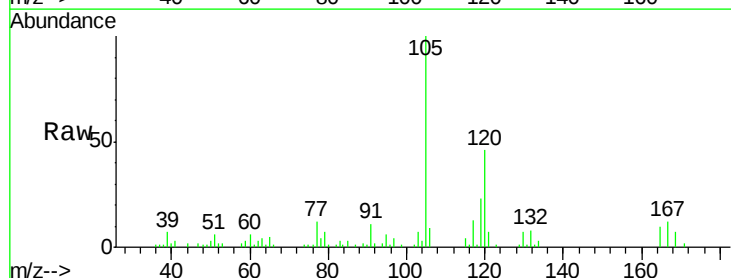


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

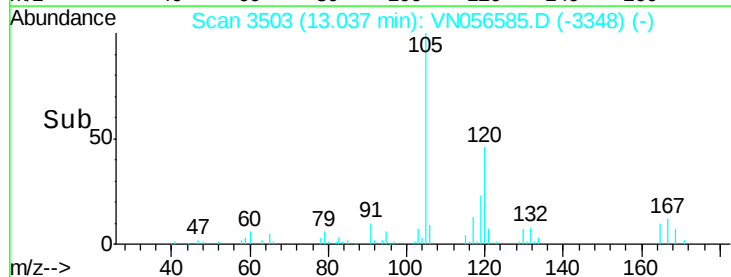
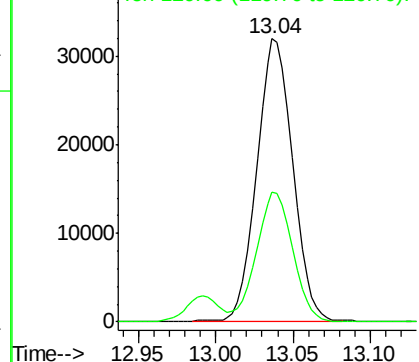


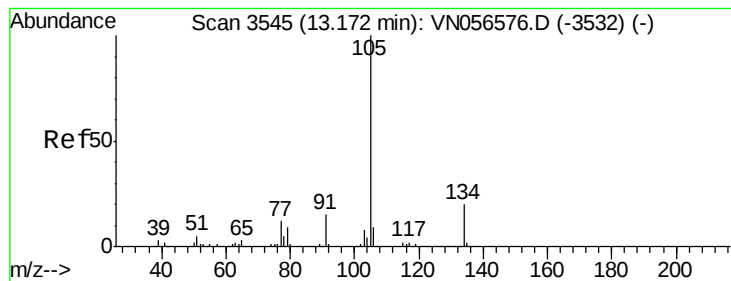
#80
1,2,4-Trimethylbenzene
Concen: 4.798 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN056585.D
Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	51944		
120	46.2		0.0	93.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 4.746 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:105 Resp: 58937

Ion Ratio Lower Upper

105 100

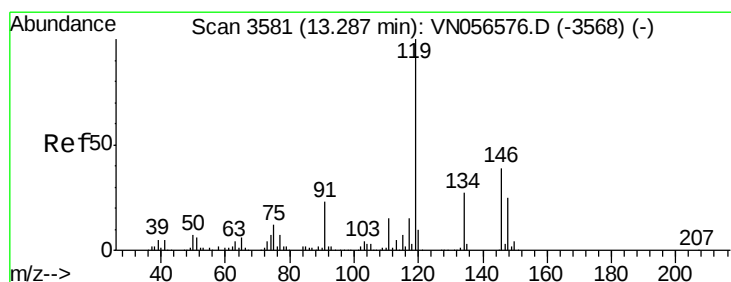
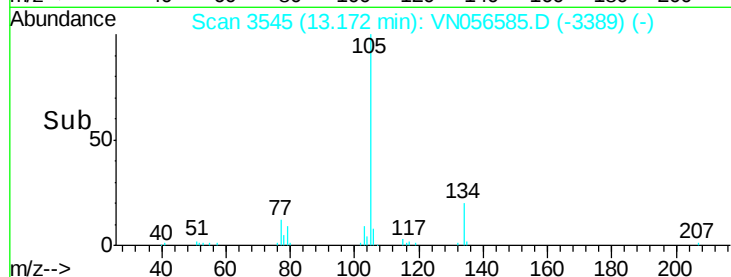
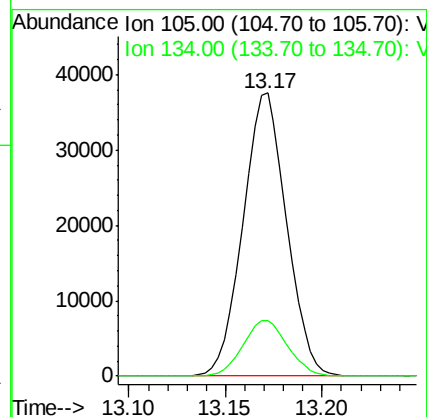
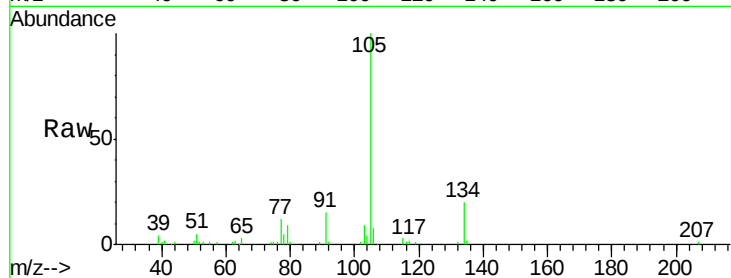
134 20.1 0.0 41.8

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#82

p-Isopropyltoluene

Concen: 4.611 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

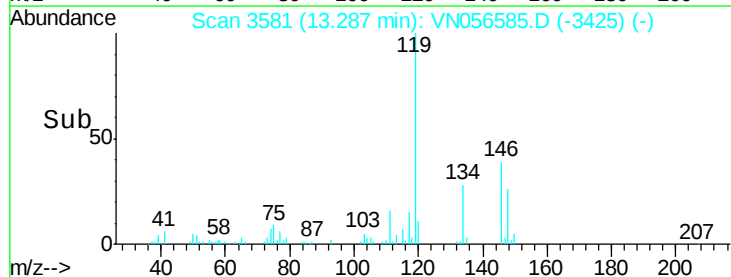
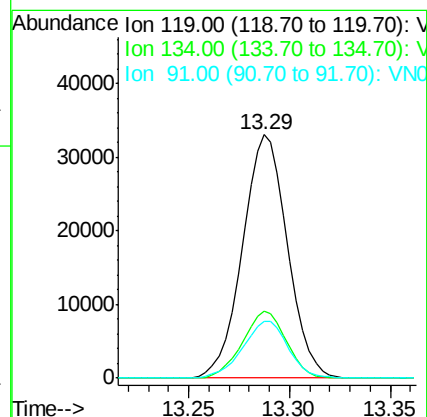
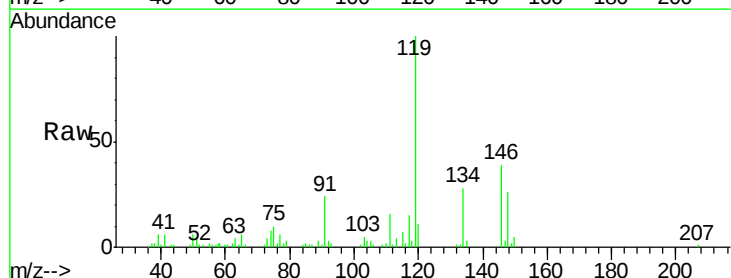
Tgt Ion:119 Resp: 51477

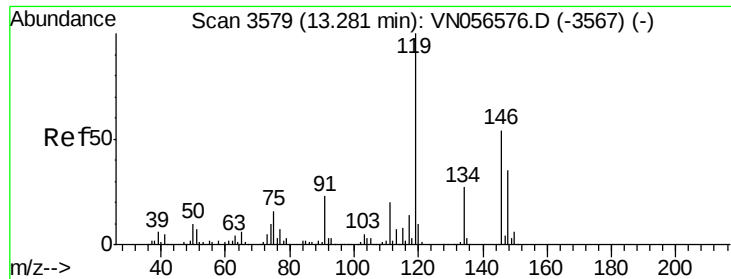
Ion Ratio Lower Upper

119 100

134 26.7 0.0 53.4

91 23.6 0.0 43.0





#83

1,3-Dichlorobenzene

Concen: 4.578 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

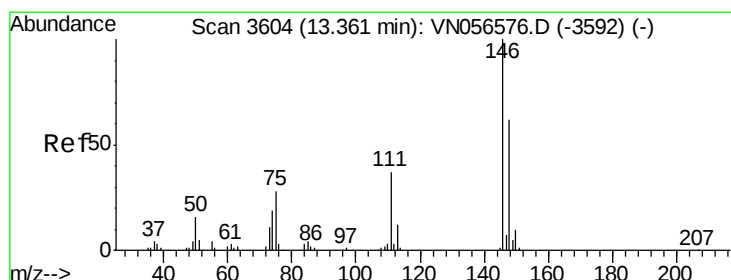
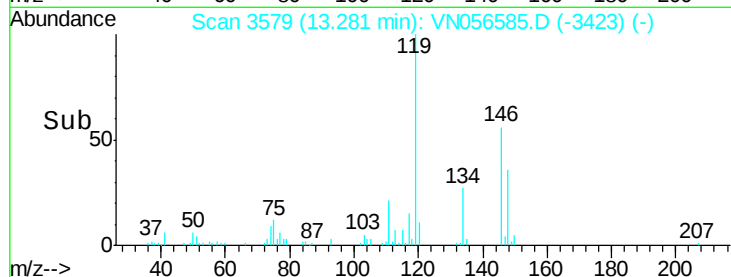
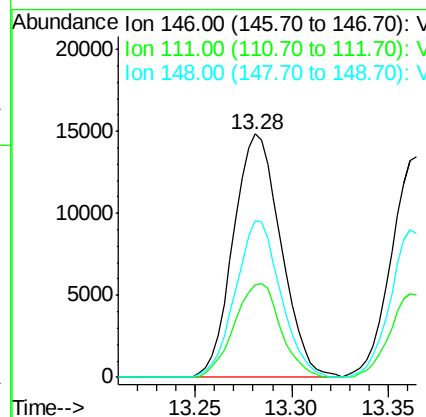
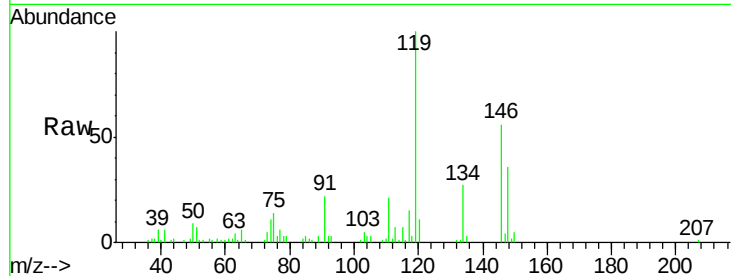
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.2	54.6
148	61.3	31.9	95.9

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#84

1,4-Dichlorobenzene

Concen: 4.149 ug/l

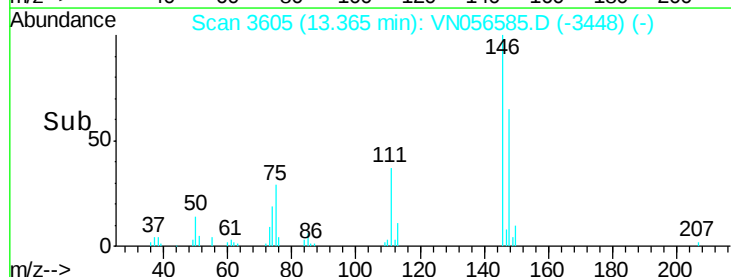
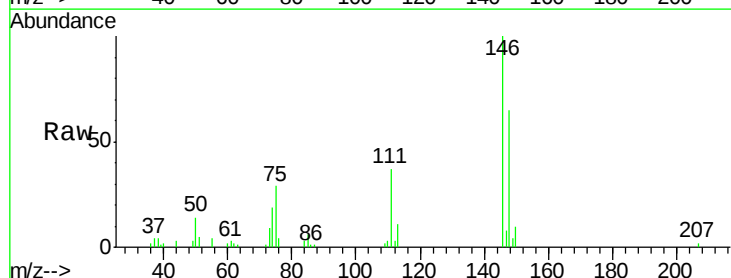
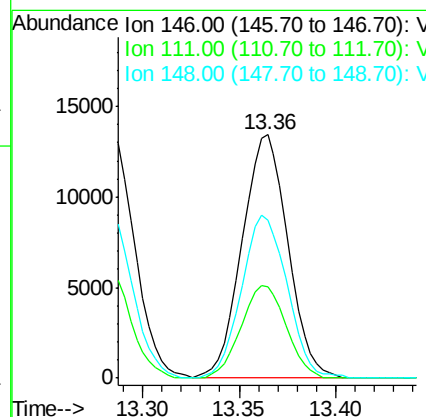
RT: 13.36 min Scan# 3605

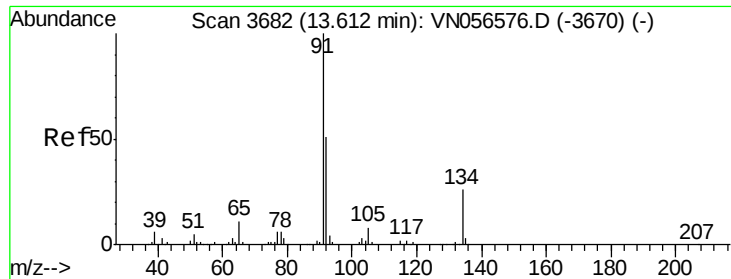
Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	17.6	52.9
148	66.6	32.1	96.3





#85

n-Butylbenzene

Concen: 4.136 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

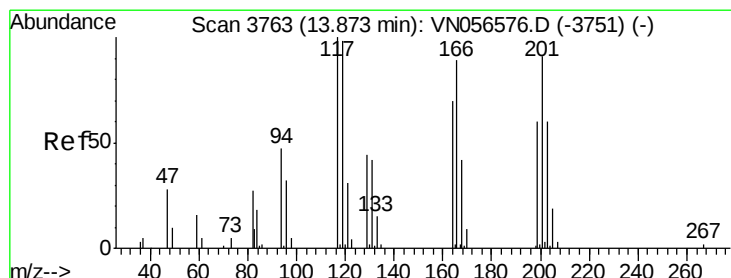
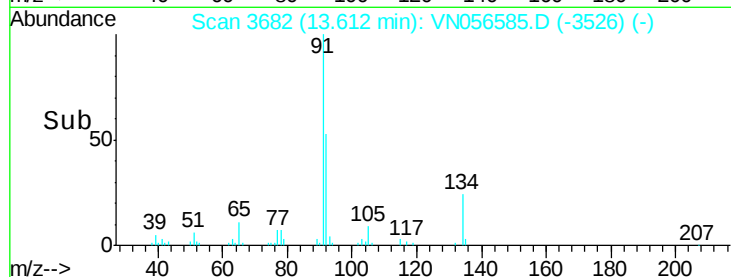
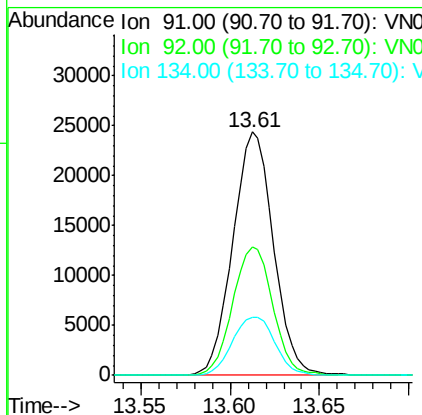
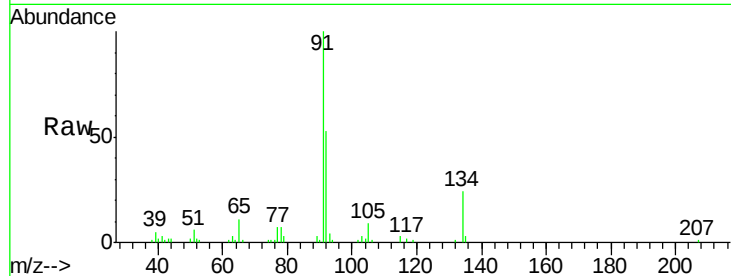
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:	91	Resp:	38812
Ion	Ratio	Lower	Upper
91	100		
92	51.9	0.0	107.2
134	25.0	0.0	55.8

Manual Integrations
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#86

Hexachloroethane

Concen: 4.088 ug/l

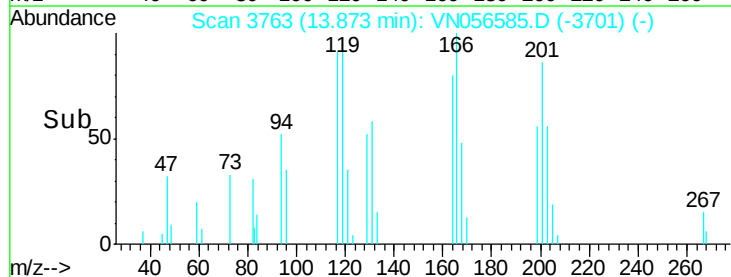
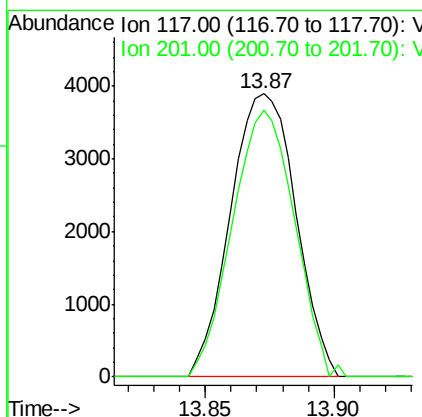
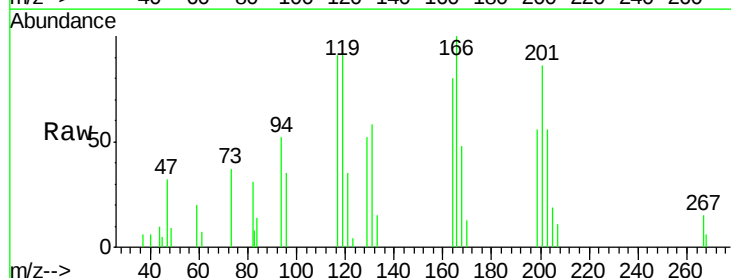
RT: 13.87 min Scan# 3763

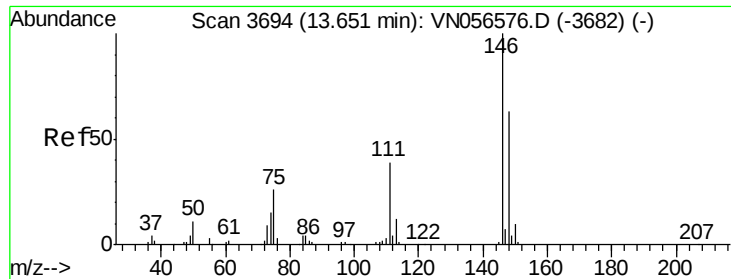
Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion:	117	Resp:	6882
Ion	Ratio	Lower	Upper
117	100		
201	89.0	48.1	144.4





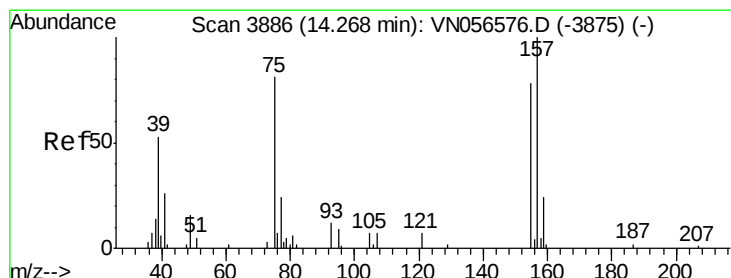
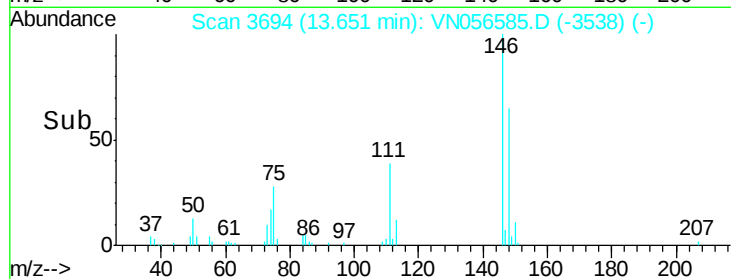
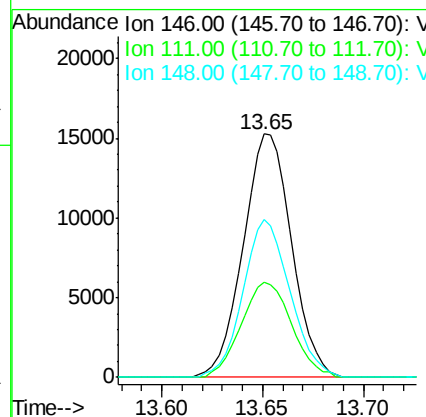
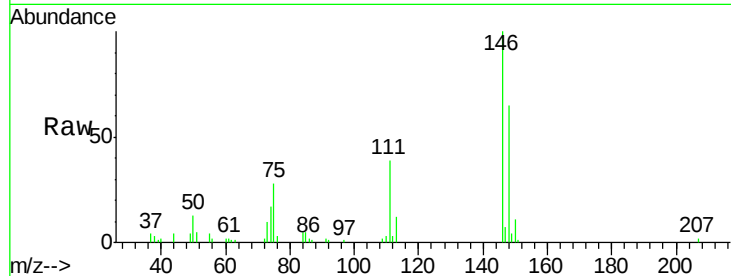
#87
 1,2-Dichlorobenzene
 Concen: 4.559 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.3	57.9
148	62.7	32.6	97.8

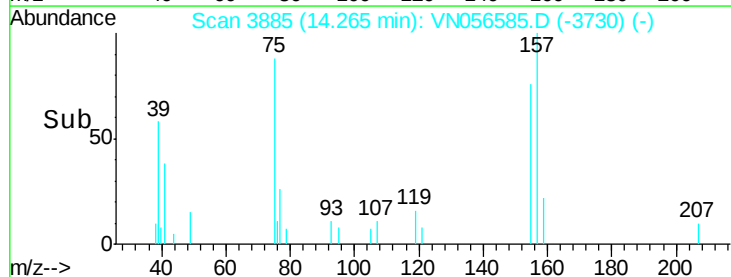
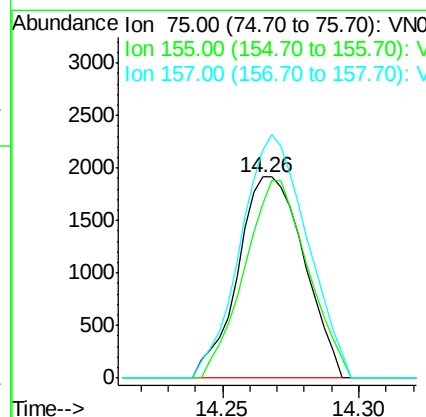
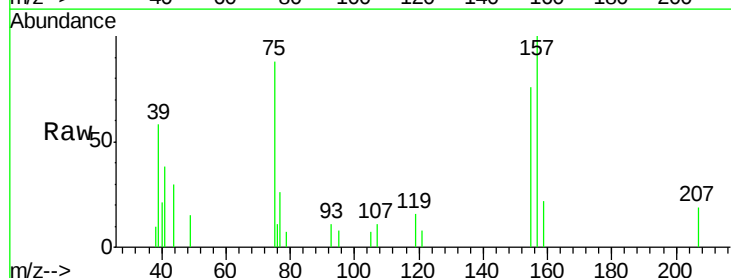
Manual Integrations
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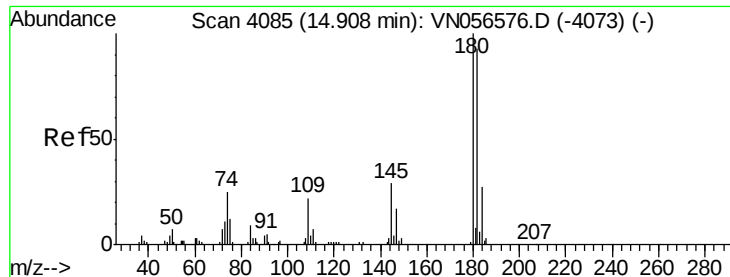
MMDadoda
 7/8/2019 10:05:20 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 4.216 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.8	82.5	123.7
157	121.2	105.1	157.7





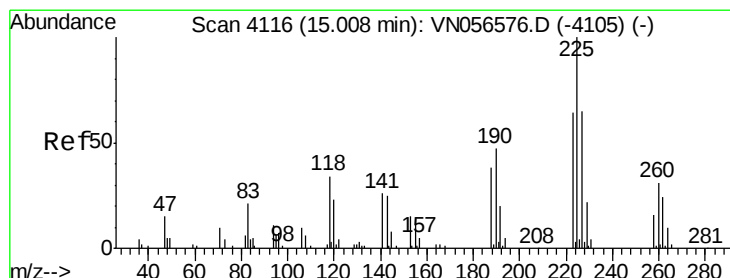
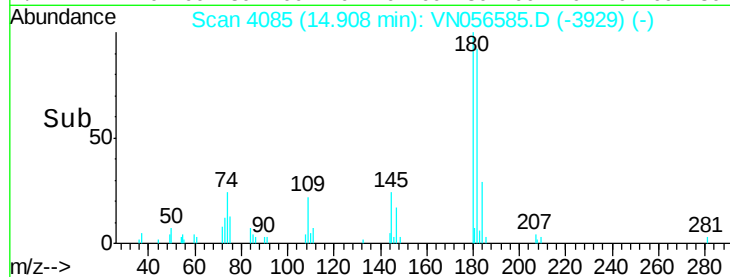
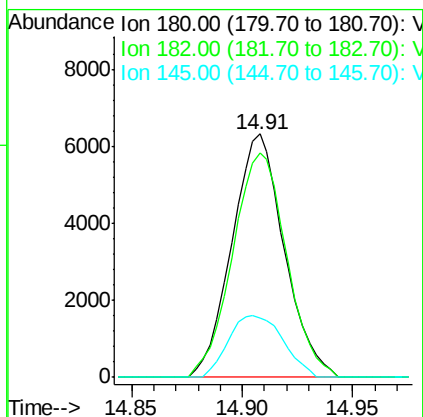
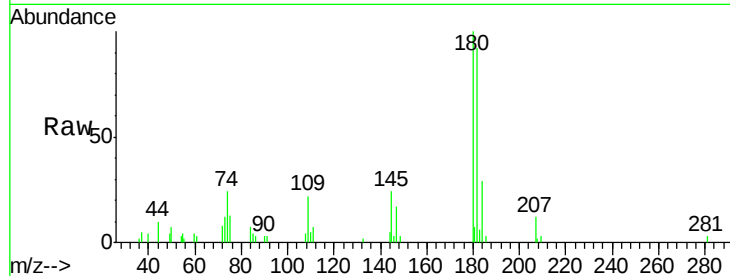
#89
 1,2,4-Trichlorobenzene
 Concen: 3.346 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.0	112.6
145	26.5	22.1	33.1

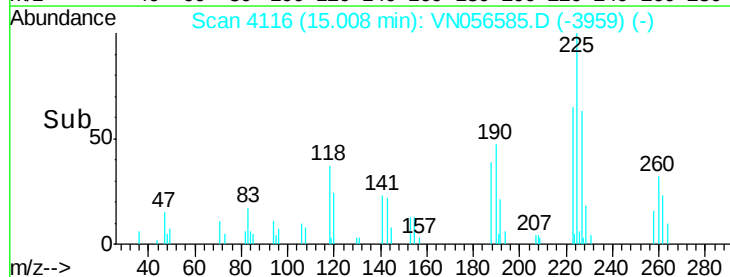
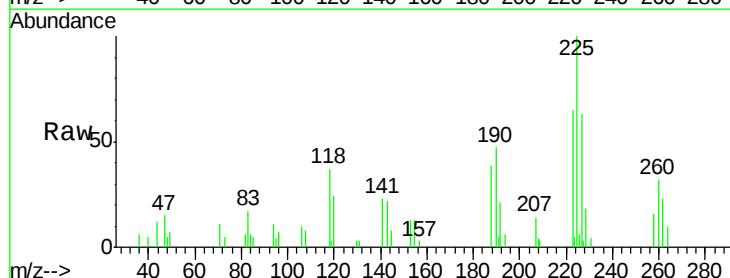
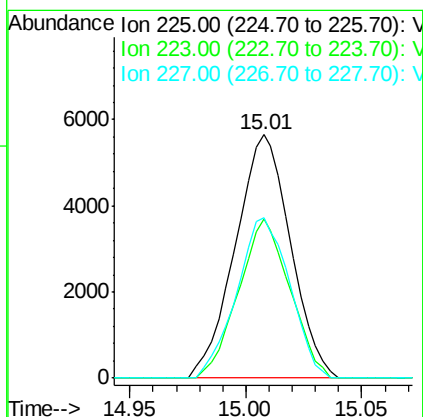
Manual Integrations
 APPROVED

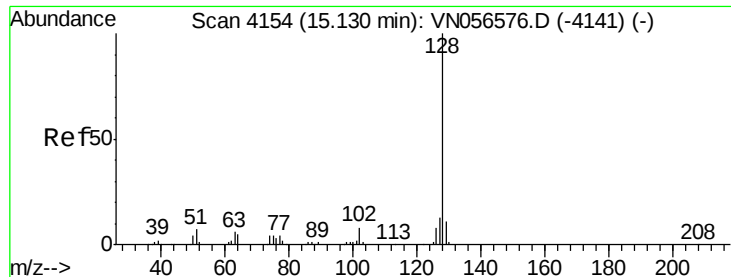
MMDadoda
 7/8/2019 10:05:20 AM



#90
 Hexachlorobutadiene
 Concen: 4.819 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056585.D
 Acq: 3 Jul 2019 14:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.9	0.0	125.6
227	63.3	0.0	128.6





#91

Naphthalene

Concen: 3.200 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Instrument :

MSVOA_N

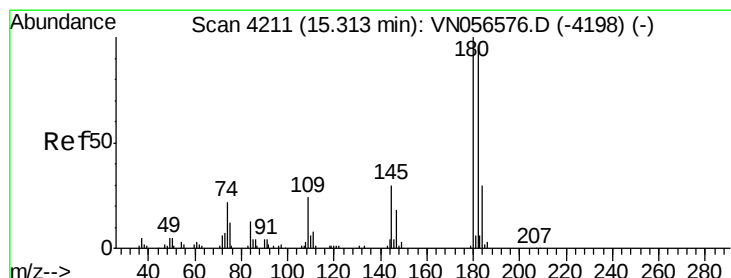
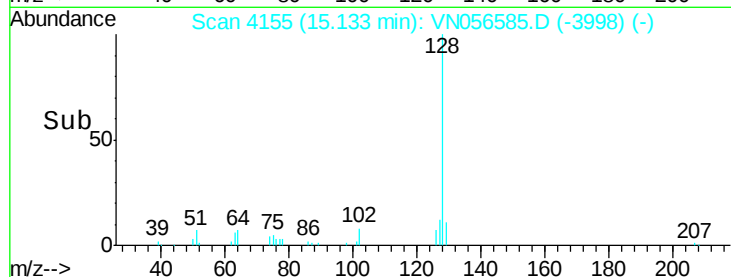
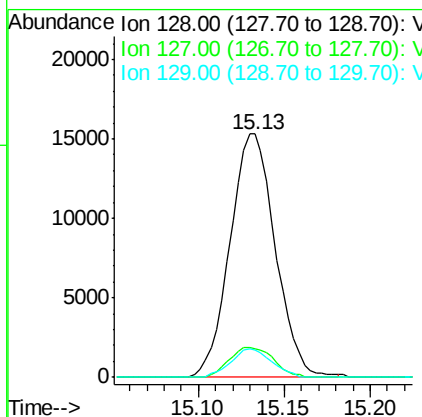
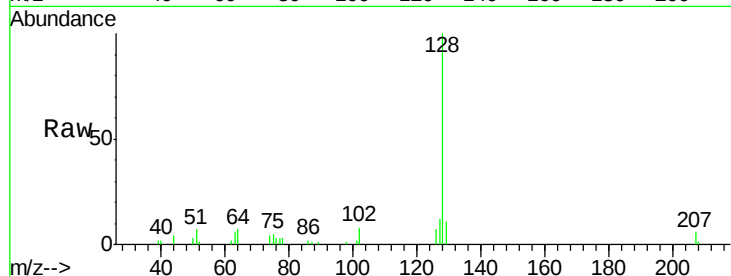
ClientSampleId :

LOQ-WATER-02-QT3-2019

Tot Ion:128	Resp:	27940
Ion Ratio	Lower	Upper
128 100		
127 12.1	10.4	15.6
129 10.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/8/2019 10:05:20 AM



#92

1,2,3-Trichlorobenzene

Concen: 3.640 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056585.D

Acq: 3 Jul 2019 14:11

Tgt Ion:180	Resp:	11891
Ion Ratio	Lower	Upper
180 100		
182 101.0	0.0	193.4
145 31.3	0.0	59.8

