

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058702.D
 Acq On : 11 Oct 2019 14:52
 Operator : JC/SP
 Sample : K5111-08 0.2PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:26 AM

Quant Time: Oct 12 00:28:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	436449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	712297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	634258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274592	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	311584	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	7.57	113	219248	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	10.08	98	844632	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
62) 4-Bromofluorobenzene	12.40	95	296117	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	1158	0.213	ug/l	99
3) Chloromethane	2.04	50	1973	0.305	ug/l	91
4) Vinyl Chloride	2.17	62	1672	0.260	ug/l	93
5) Bromomethane	2.55	94	1417	0.362	ug/l	90
6) Chloroethane	2.69	64	1168	0.294	ug/l #	88
7) Trichlorofluoromethane	3.00	101	1627	0.211	ug/l	89
8) Diethyl Ether	3.40	74	798m	0.280	ug/l	
10) Methyl Iodide	3.94	142	1403	0.234	ug/l #	51
11) Tert butyl alcohol	4.75	59	1753m	1.771	ug/l	
12) 1,1-Dichloroethene	3.71	96	1140	0.272	ug/l #	82
13) Acrolein	3.59	56	1505m	1.891	ug/l	
14) Allyl chloride	4.31	41	2379	0.281	ug/l #	70
15) Acrylonitrile	4.97	53	2821	1.130	ug/l #	73
16) Acetone	3.79	43	3925	1.552	ug/l	96
17) Carbon Disulfide	4.02	76	5948	0.444	ug/l #	91
18) Methyl Acetate	4.30	43	2639m	0.411	ug/l	
19) Methyl tert-butyl Ether	5.02	73	3542m	0.237	ug/l	
20) Methylene Chloride	4.52	84	2135	0.404	ug/l #	89
21) trans-1,2-Dichloroethene	5.01	96	1383m	0.295	ug/l	
23) Vinyl Acetate	5.88	43	13919	1.049	ug/l	97
24) 1,1-Dichloroethane	5.82	63	2151	0.230	ug/l #	85
25) 2-Butanone	6.82	43	5078	1.389	ug/l	99
26) 2,2-Dichloropropane	6.80	77	3602	0.421	ug/l #	62
27) cis-1,2-Dichloroethene	6.82	96	1434	0.262	ug/l #	1
29) Tetrahydrofuran	7.20	42	2521	1.067	ug/l #	74
30) Chloroform	7.36	83	3279	0.348	ug/l	87
31) Cyclohexane	7.65	56	11909	1.329	ug/l #	20
36) 1,1-Dichloropropene	7.77	75	2093	0.291	ug/l #	78
37) Ethyl Acetate	6.91	43	2214m	0.304	ug/l	
38) Carbon Tetrachloride	7.74	117	1500	0.214	ug/l	89
39) Methylcyclohexane	9.07	83	1717	0.205	ug/l	89
40) Benzene	8.03	78	5046	0.244	ug/l	99
41) Methacrylonitrile	7.14	41	834m	0.245	ug/l	
42) 1,2-Dichloroethane	8.11	62	2461	0.310	ug/l	88

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

43) Isopropyl Acetate	8.14	43	2681	0.216	ug/l #	71
44) Trichloroethene	8.82	130	1359	0.265	ug/l	94
45) 1,2-Dichloropropane	9.11	63	1277m	0.231	ug/l	
46) Dibromomethane	9.20	93	784m	0.223	ug/l	
47) Bromodichloromethane	9.39	83	1536	0.215	ug/l #	96
48) Methyl methacrylate	9.19	41	1194	0.212	ug/l	84
49) 1,4-Dioxane	9.20	88	524	6.022	ug/l #	44
51) 4-Methyl-2-Pentanone	9.98	43	8262	1.186	ug/l	93
52) Toluene	10.15	92	3114	0.246	ug/l	90
53) t-1,3-Dichloropropene	10.38	75	2428	0.296	ug/l #	1
54) cis-1,3-Dichloropropene	9.83	75	2807	0.322	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	1171	0.226	ug/l #	70
56) Ethyl methacrylate	10.42	69	1530	0.202	ug/l #	68
57) 1,3-Dichloropropane	10.71	76	2013	0.228	ug/l #	84
58) 2-Chloroethyl Vinyl ether	9.69	63	2515	0.690	ug/l	99
59) 2-Hexanone	10.75	43	6388	1.186	ug/l	93
61) 1,2-Dibromoethane	11.00	107	1081	0.208	ug/l	98
64) Tetrachloroethene	10.63	164	1277	0.288	ug/l	88
65) Chlorobenzene	11.43	112	3336	0.259	ug/l	96
67) Ethyl Benzene	11.51	91	6001	0.261	ug/l	96
68) m/p-Xylenes	11.62	106	4467	0.518	ug/l	90
69) o-Xylene	11.95	106	1836	0.220	ug/l	90
70) Styrene	11.97	104	2875	0.210	ug/l #	86
71) Bromoform	12.12	173	715	0.205	ug/l #	28
73) Isopropylbenzene	12.25	105	5166	0.260	ug/l	96
74) N-amyl acetate	12.07	43	2269	0.254	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.51	83	1726	0.263	ug/l #	95
76) 1,2,3-Trichloropropane	12.56	75	2431m	0.404	ug/l	
77) Bromobenzene	12.53	156	1408	0.291	ug/l	92
78) n-propylbenzene	12.60	91	6483	0.280	ug/l	95
79) 2-Chlorotoluene	12.68	91	4020	0.279	ug/l	96
80) 1,3,5-Trimethylbenzene	12.74	105	4435	0.261	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.30	75	1240m	0.551	ug/l	
82) 4-Chlorotoluene	12.78	91	4094	0.277	ug/l	95
83) tert-Butylbenzene	13.00	119	3800	0.261	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	4331	0.257	ug/l	100
85) sec-Butylbenzene	13.18	105	4722	0.246	ug/l	98
86) p-Isopropyltoluene	13.30	119	4872	0.280	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	2697	0.302	ug/l	79
88) 1,4-Dichlorobenzene	13.37	146	3093m	0.341	ug/l	
89) n-Butylbenzene	13.62	91	4087	0.254	ug/l	92
90) Hexachloroethane	13.88	117	709	0.227	ug/l	77
91) 1,2-Dichlorobenzene	13.66	146	2115	0.243	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	14.27	75	918m	0.600	ug/l	
93) 1,2,4-Trichlorobenzene	14.92	180	2384	0.450	ug/l	94
94) Hexachlorobutadiene	15.02	225	743	0.266	ug/l	94
95) Naphthalene	15.13	128	7466	0.490	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	2426	0.469	ug/l	90

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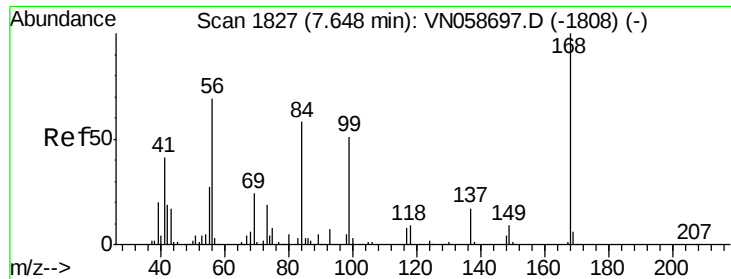
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 436449

Ion Ratio Lower Upper

168 100

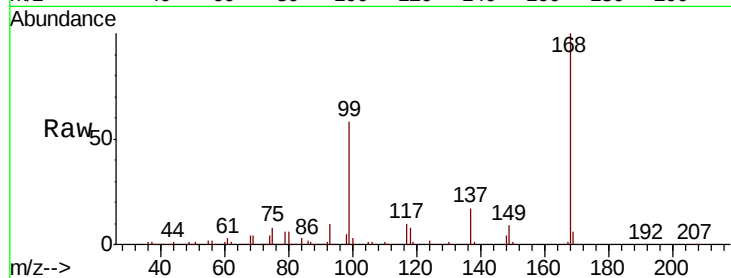
99 58.3 47.5 71.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

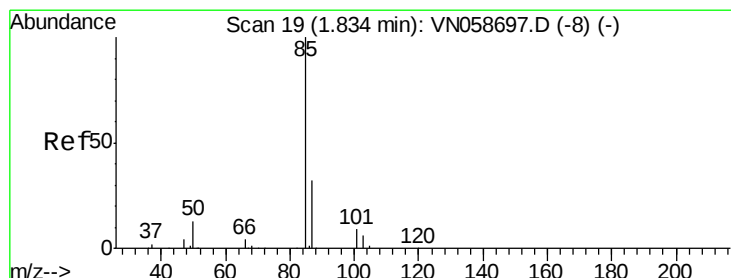
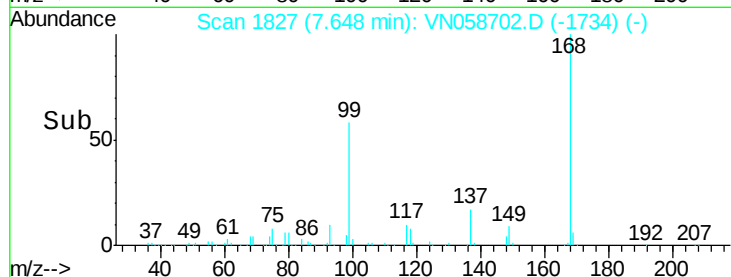
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.213 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058702.D

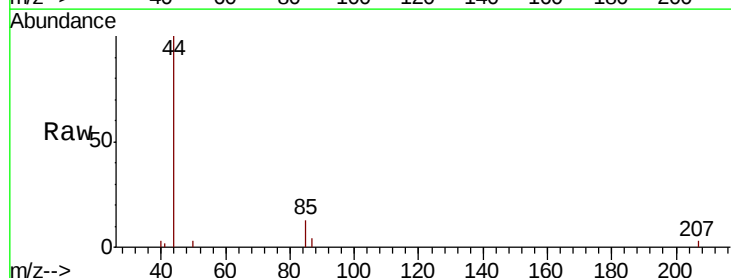
Acq: 11 Oct 2019 14:52

Tgt Ion: 85 Resp: 1158

Ion Ratio Lower Upper

85 100

87 32.0 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

1000

800

600

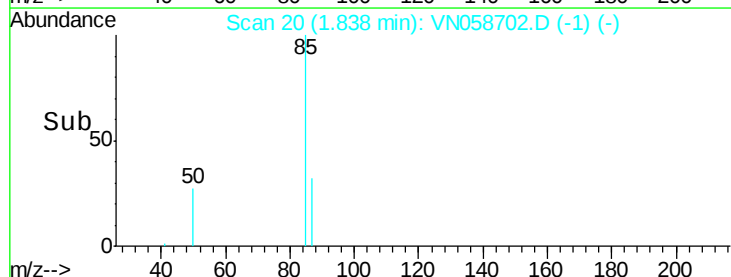
400

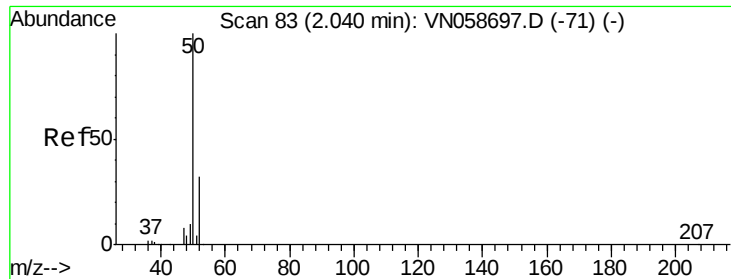
200

0

1.80 1.82 1.84 1.86

Time-->





#3

Chloromethane

Concen: 0.305 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 1973

Ion Ratio Lower Upper

50 100

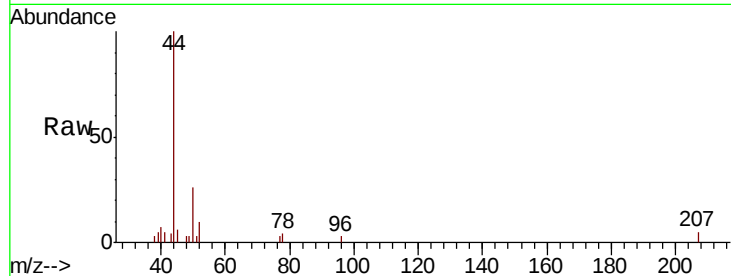
52 37.4 25.8 38.6

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Abundance Ion 49.90 (49.60 to 50.60): VN058702.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN058702.D (-1) (-)

2.04

1500

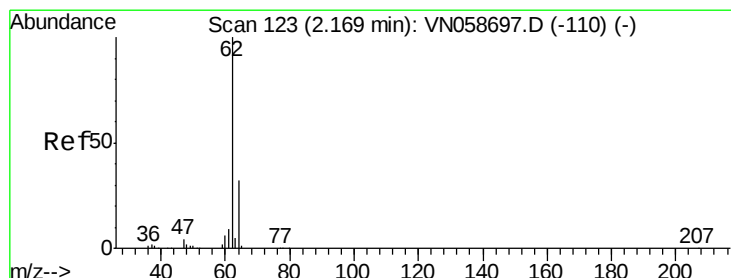
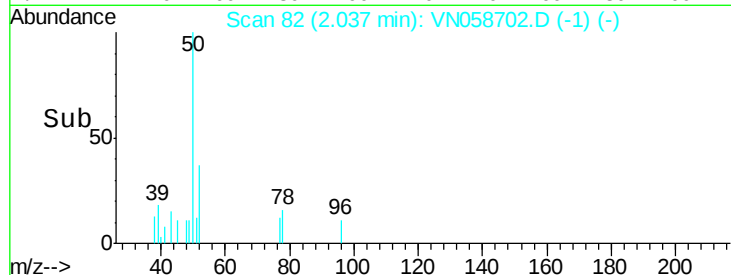
1000

500

0

Time-->

2.00 2.02 2.04 2.06 2.08



#4

Vinyl Chloride

Concen: 0.260 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058702.D

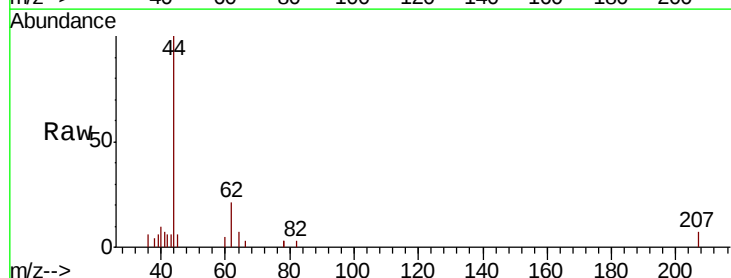
Acq: 11 Oct 2019 14:52

Tgt Ion: 62 Resp: 1672

Ion Ratio Lower Upper

62 100

64 35.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN058702.D (-30) (-)

Ion 63.90 (63.60 to 64.60): VN058702.D (-30) (-)

2.17

1200

1000

800

600

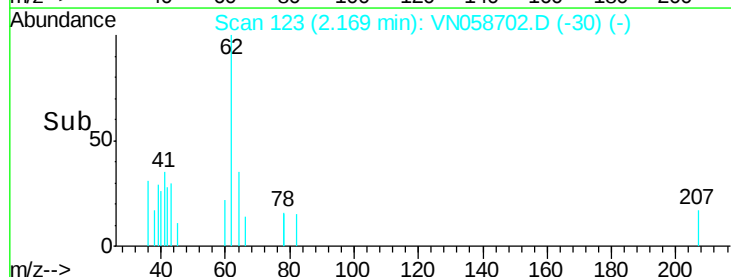
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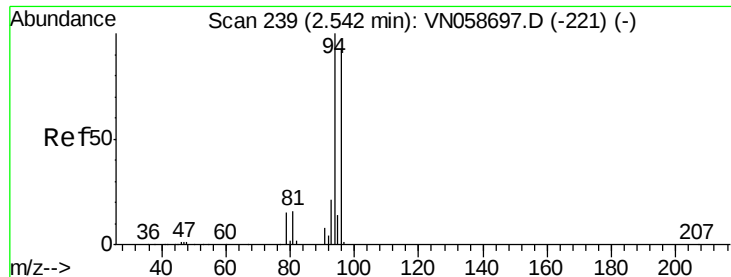
200

0

Time-->

2.15 2.17 2.19 2.20





#5

Bromomethane

Concen: 0.362 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

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LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 1417

Ion Ratio Lower Upper

94 100

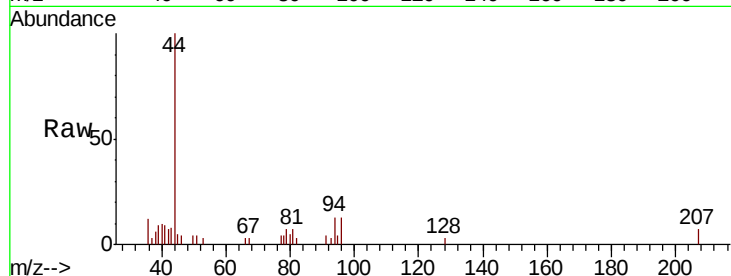
96 102.3 74.5 111.7

Manual Integrations

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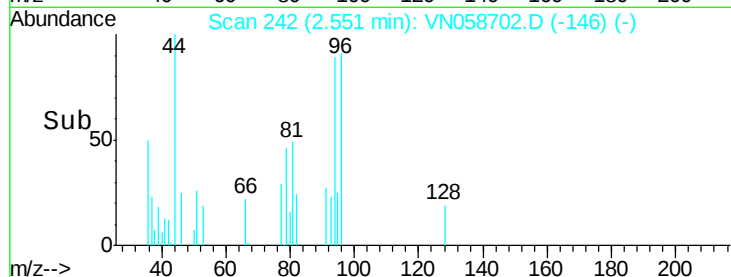
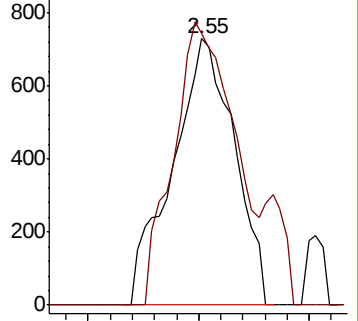
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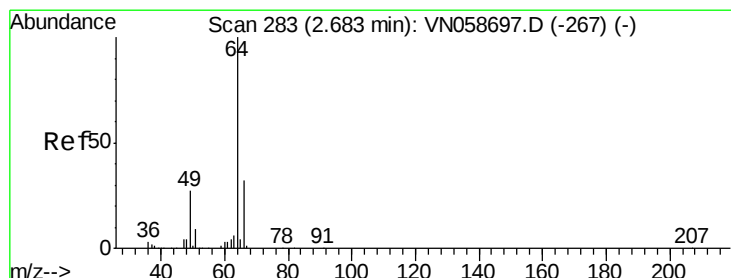


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#6

Chloroethane

Concen: 0.294 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058702.D

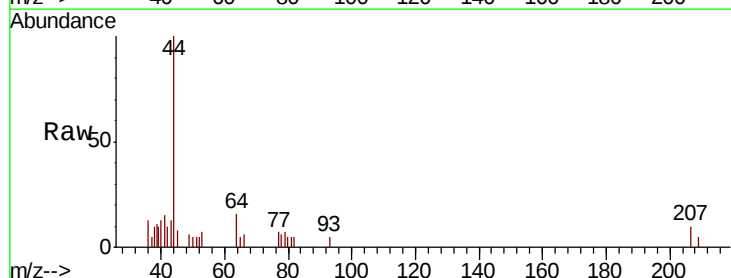
Acq: 11 Oct 2019 14:52

Tgt Ion: 64 Resp: 1168

Ion Ratio Lower Upper

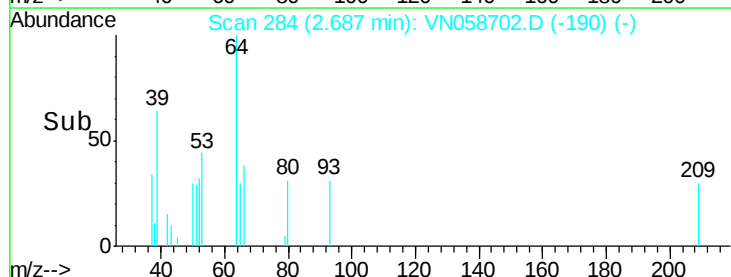
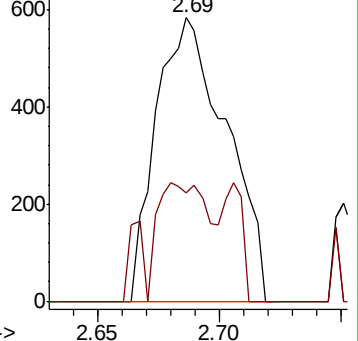
64 100

66 38.4 25.4 38.2#

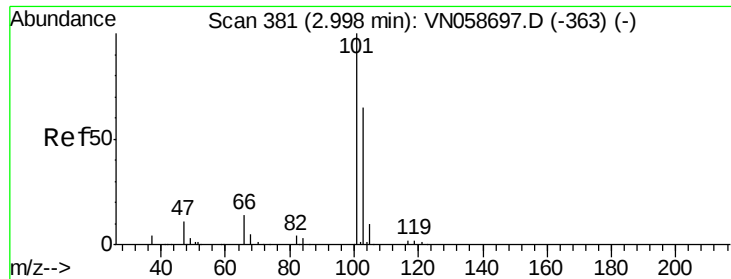


Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



Time-->



#7

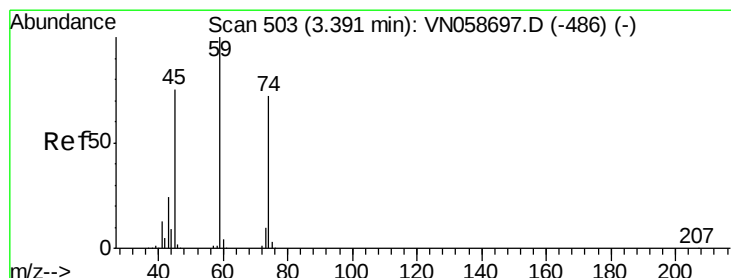
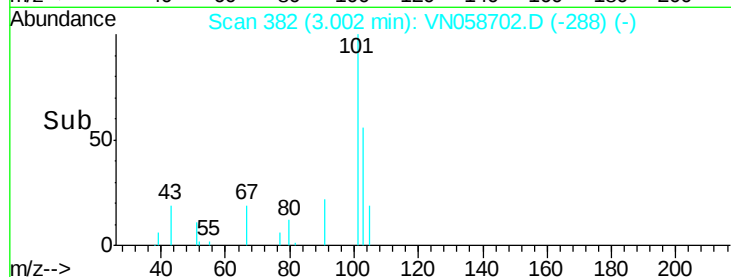
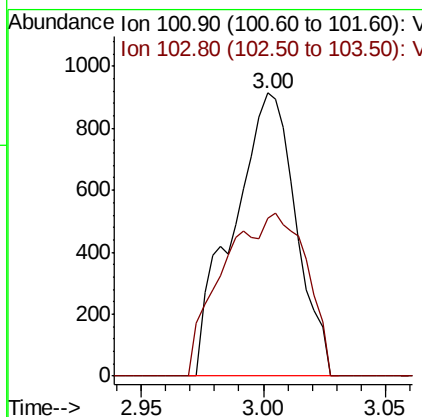
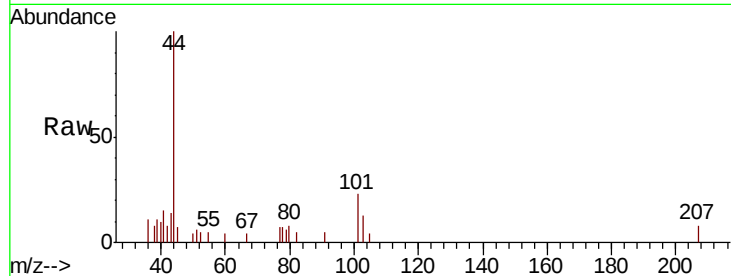
Trichlorofluoromethane
 Concen: 0.211 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

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 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	55.9	51.8	77.6

Manual Integrations
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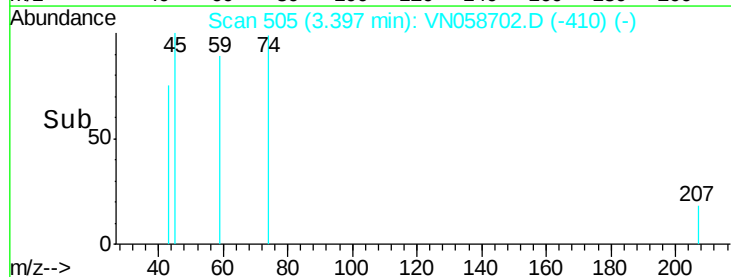
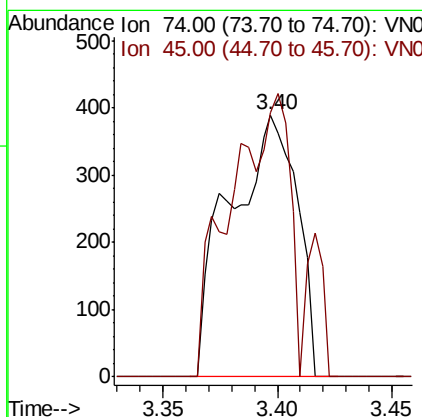
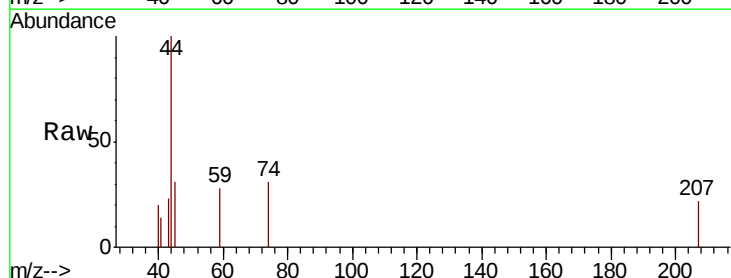
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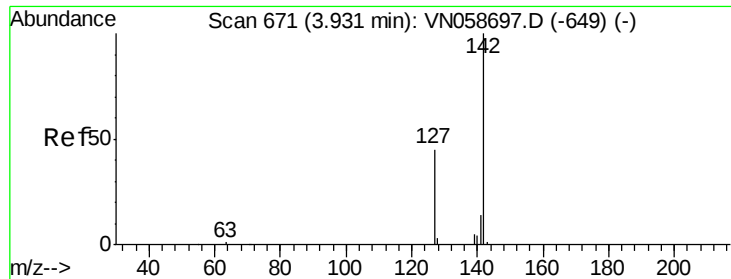


#8

Diethyl Ether
 Concen: 0.280 ug/l m
 RT: 3.40 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
74	100		
45	34.7	51.3	154.0#





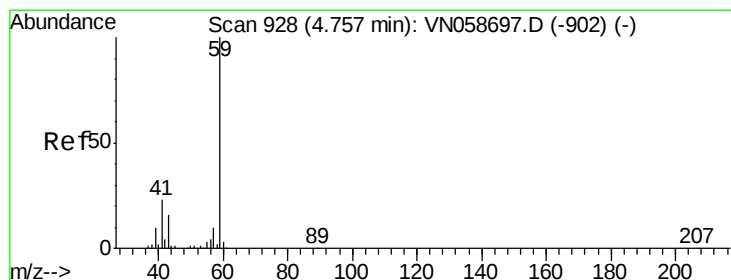
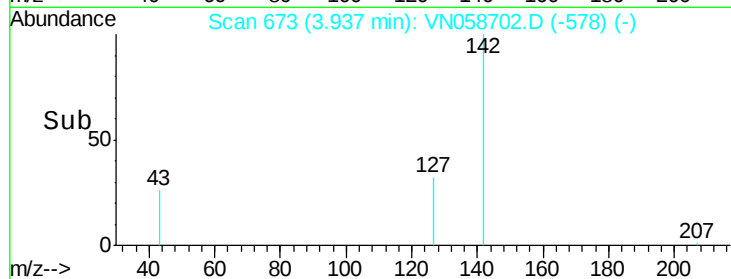
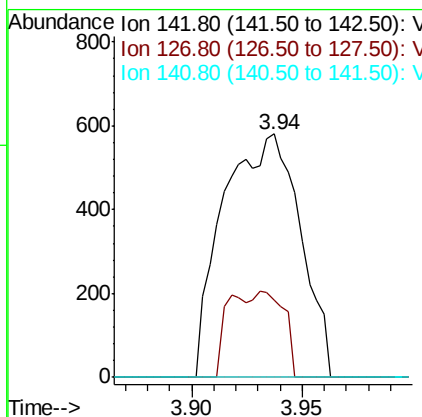
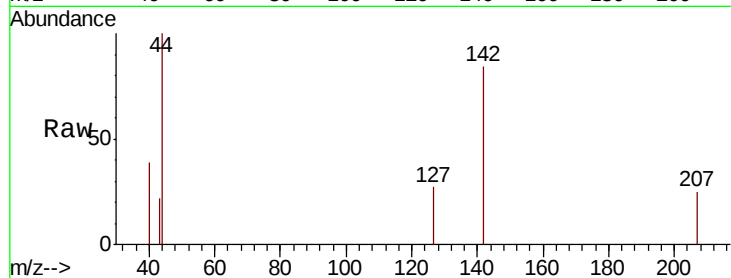
#10
Methyl Iodide
Concen: 0.234 ug/l
RT: 3.94 min Scan# 673
Delta R.T. 0.01 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
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Tot Ion	Ratio	Lower	Upper
142	100		
127	10.1	36.4	54.6#
141	0.0	11.1	16.7#

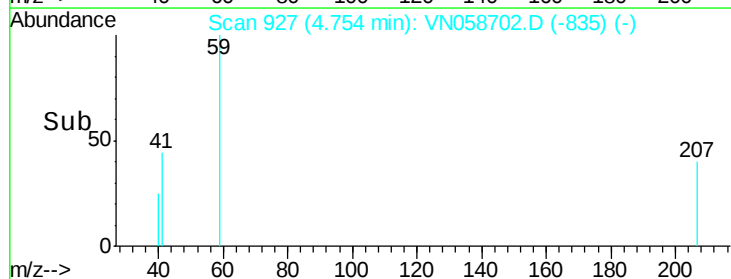
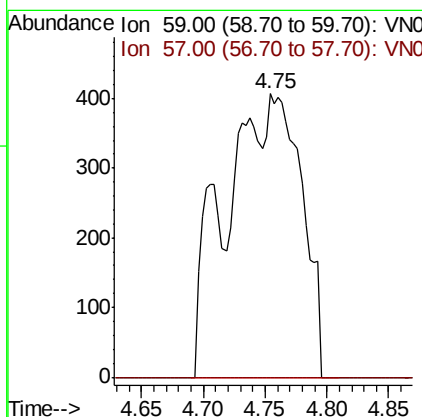
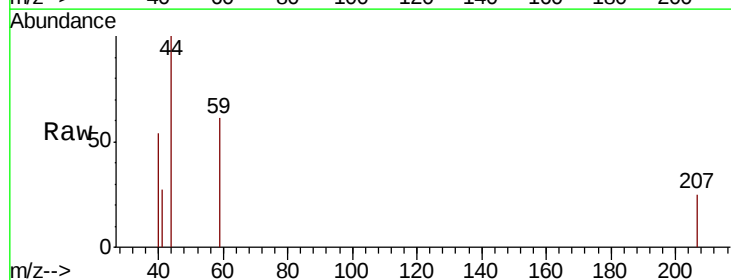
Manual Integrations
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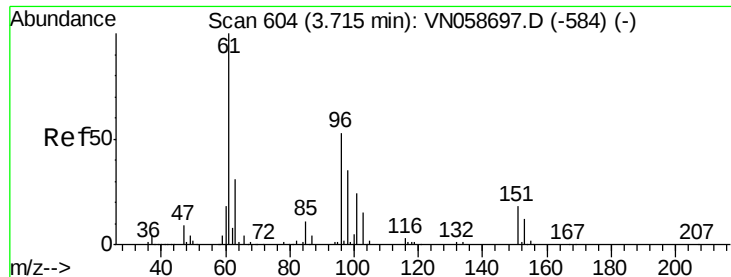
MMDadoda
10/16/2019 12:48:26 AM



#11
Tert butyl alcohol
Concen: 1.771 ug/l m
RT: 4.75 min Scan# 927
Delta R.T. -0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

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





#12

1,1-Dichloroethene

Concen: 0.272 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

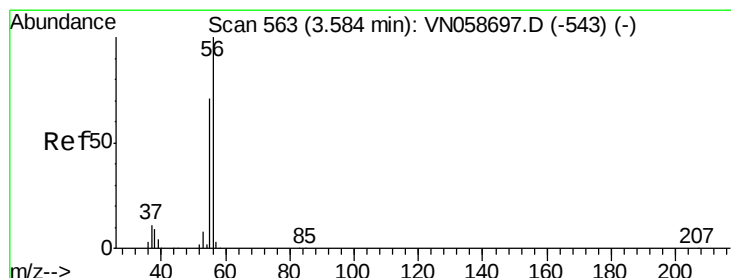
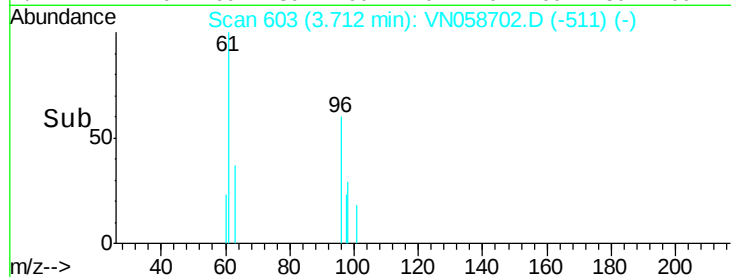
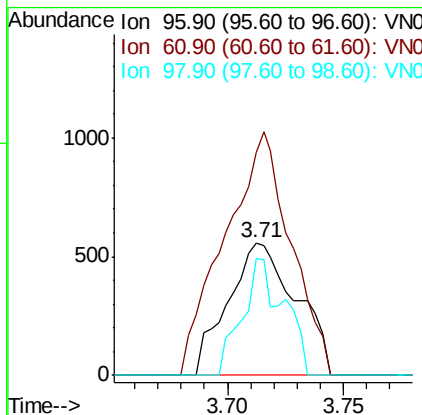
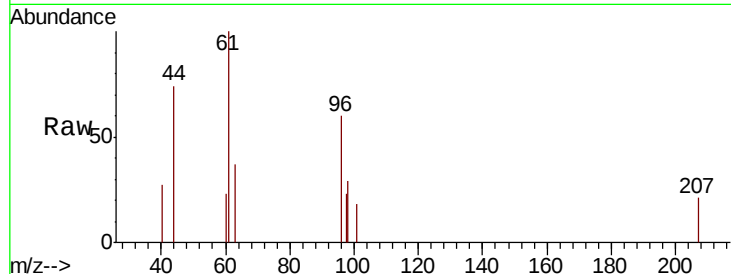
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	1140
Ion	Ratio	Lower	Upper
96	100		
61	167.8	151.3	226.9
98	87.7	52.6	78.8#

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#13

Acrolein

Concen: 1.891 ug/l m

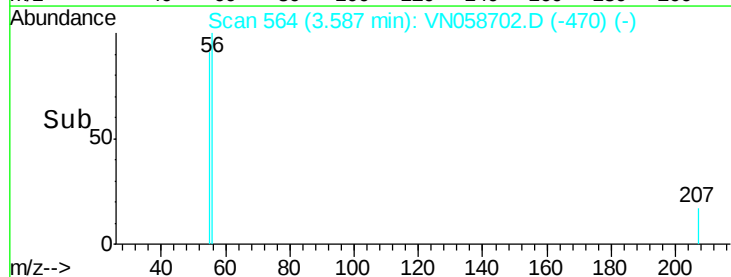
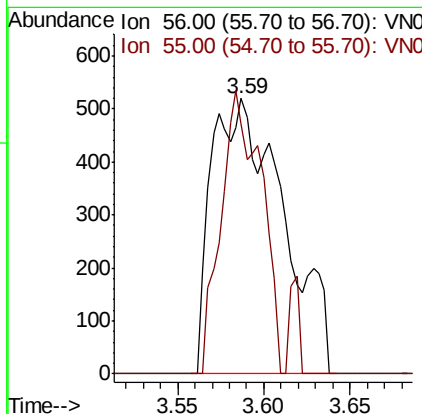
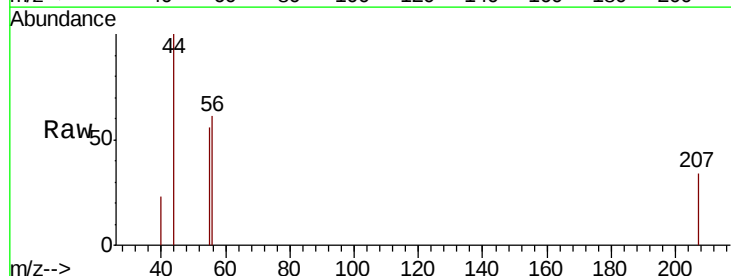
RT: 3.59 min Scan# 564

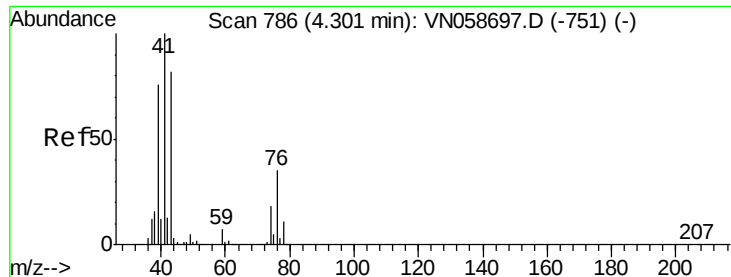
Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	56	Resp:	1505
Ion	Ratio	Lower	Upper
56	100		
55	57.7	56.7	85.1





#14

Allvl chloride

Concen: 0.281 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

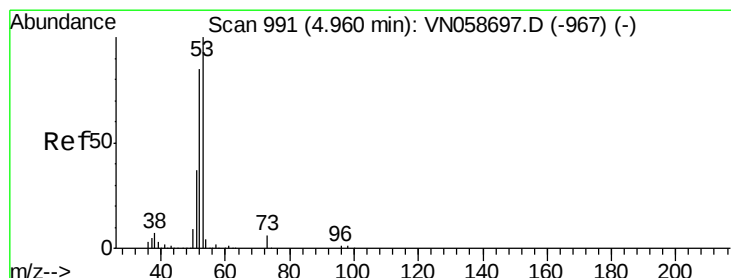
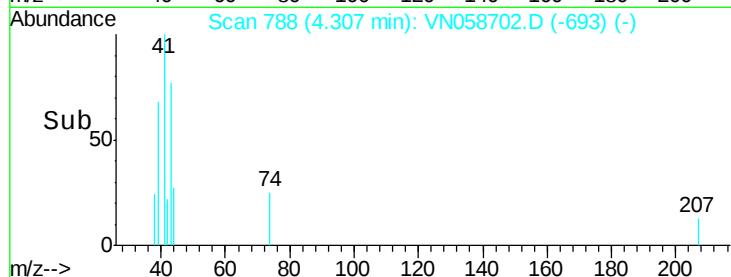
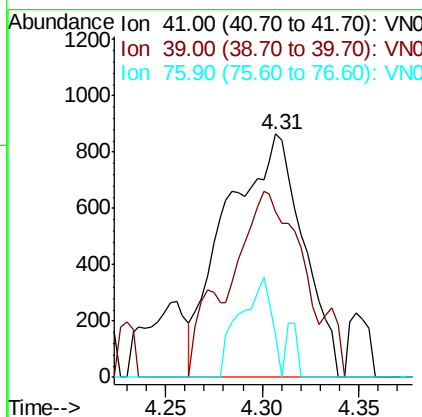
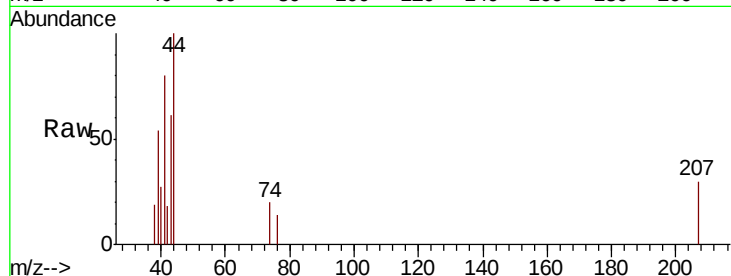
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	41	Resp:	2379
Ion	Ratio	Lower	Upper
41	100		
39	44.5	57.2	85.8#
76	17.3	25.0	37.6#

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#15

Acrylonitrile

Concen: 1.130 ug/l

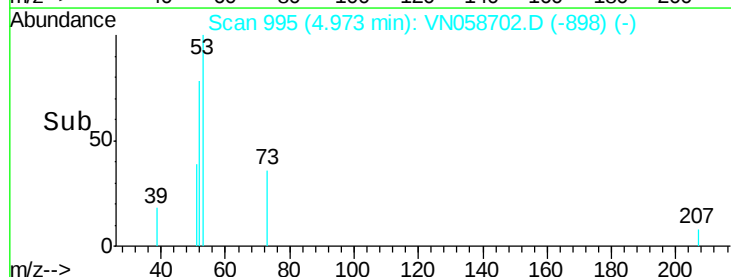
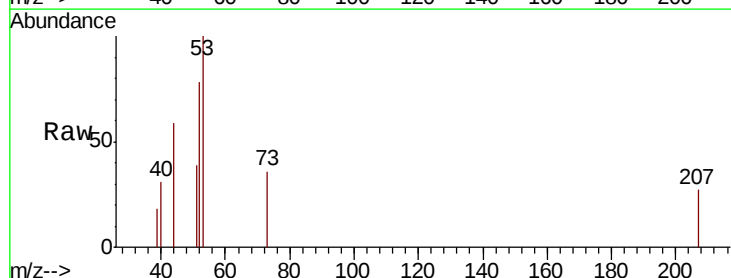
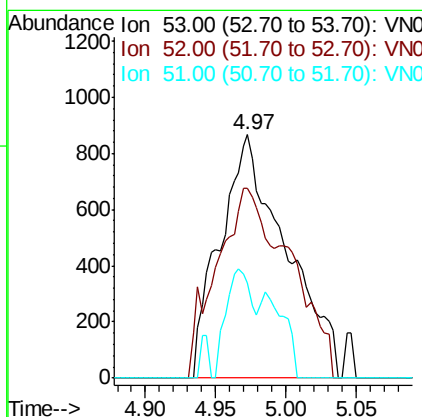
RT: 4.97 min Scan# 995

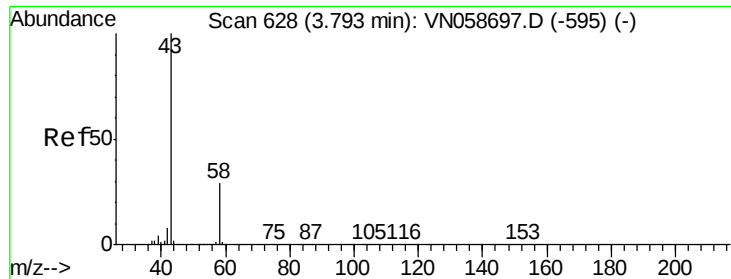
Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	53	Resp:	2821
Ion	Ratio	Lower	Upper
53	100		
52	60.5	66.2	99.2#
51	18.1	29.4	44.2#





#16

Acetone

Concen: 1.552 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 3925

Ion Ratio Lower Upper

43 100

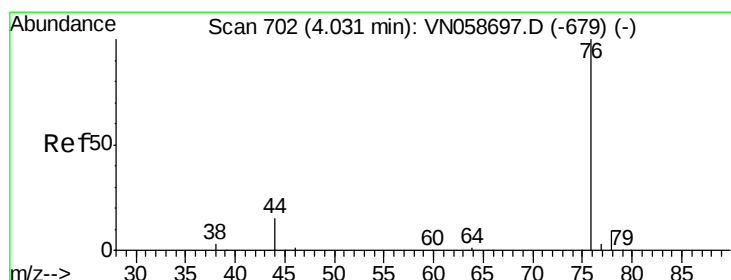
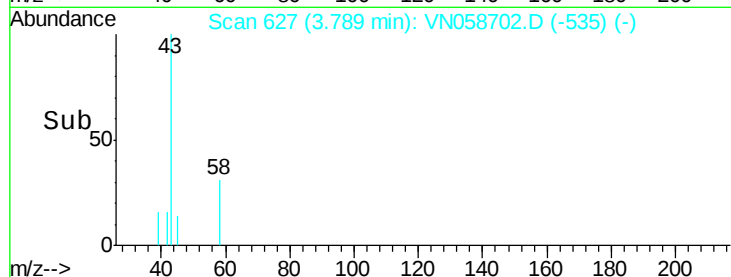
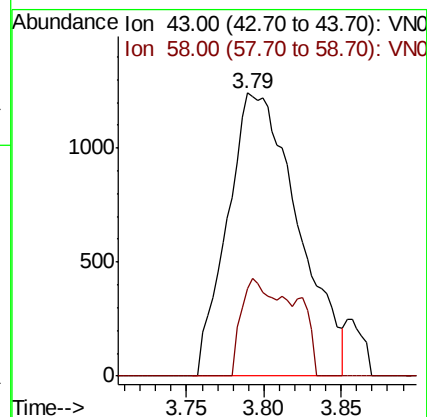
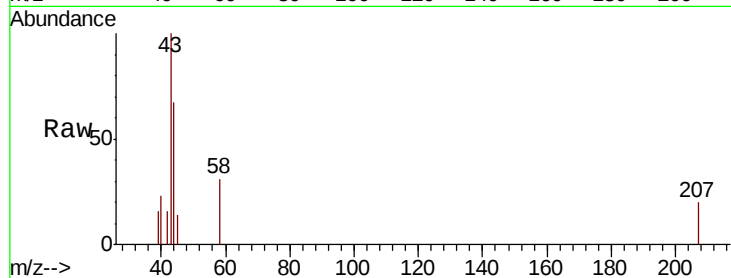
58 31.1 23.3 34.9

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#17

Carbon Disulfide

Concen: 0.444 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058702.D

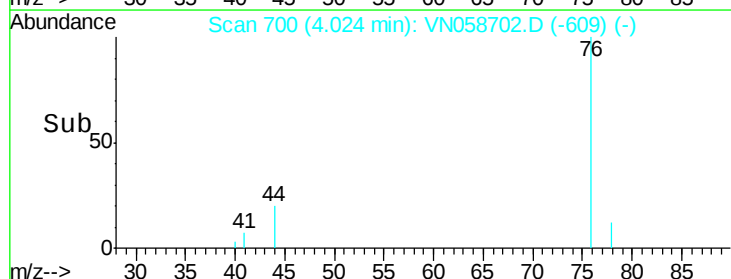
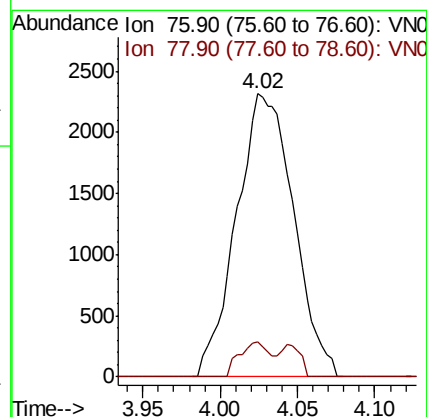
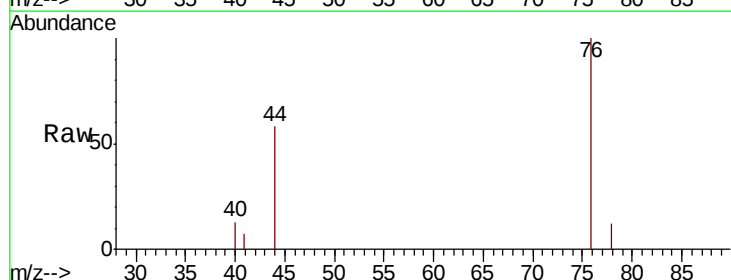
Acq: 11 Oct 2019 14:52

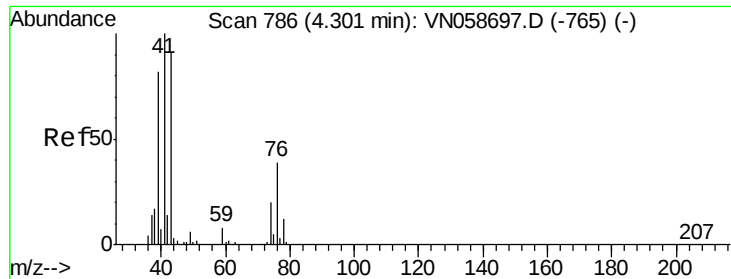
Tgt Ion: 76 Resp: 5948

Ion Ratio Lower Upper

76 100

78 12.2 7.1 10.7#





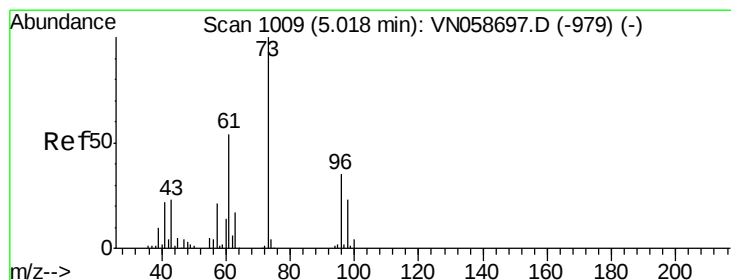
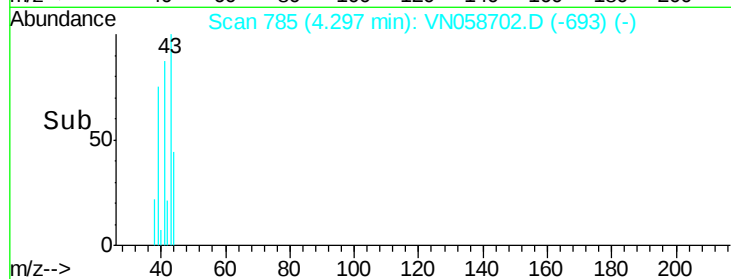
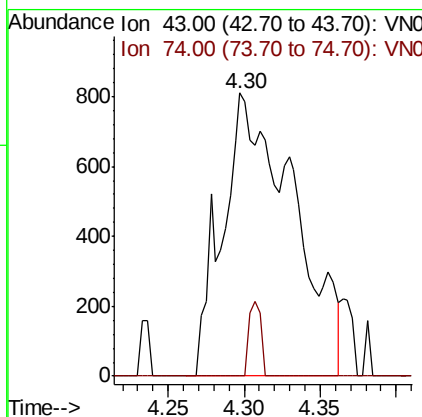
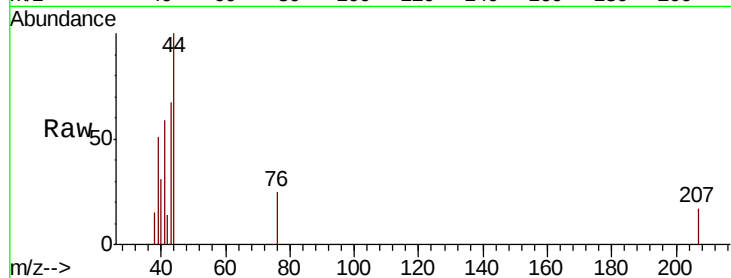
#18
Methyl Acetate
Concen: 0.411 ug/l m
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 2639
Ion Ratio Lower Upper
43 100
74 4.2 17.2 25.8#

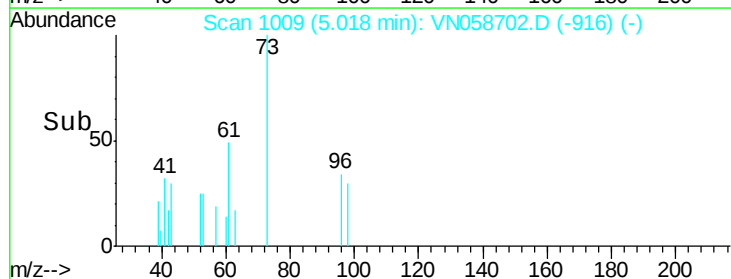
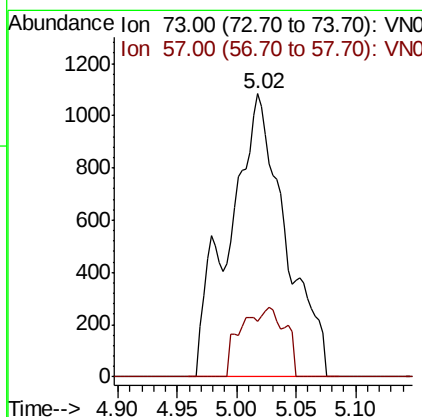
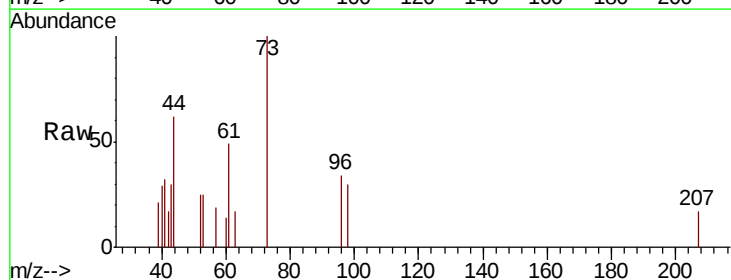
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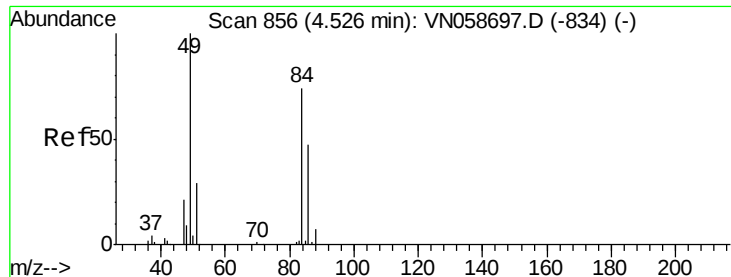
MMDadoda
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#19
Methyl tert-butyl Ether
Concen: 0.237 ug/l m
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion: 73 Resp: 3542
Ion Ratio Lower Upper
73 100
57 19.5 17.0 25.6





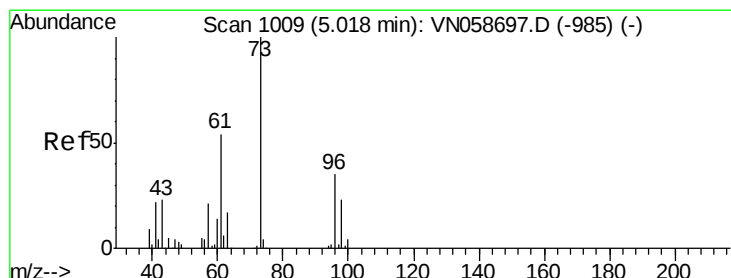
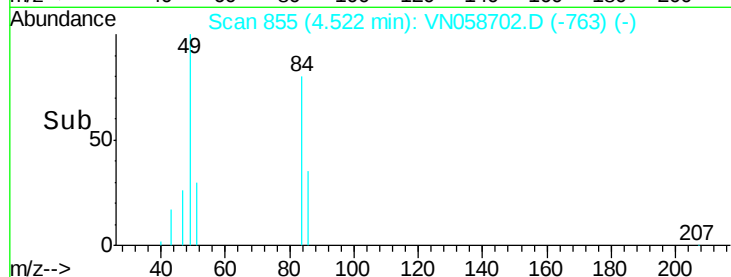
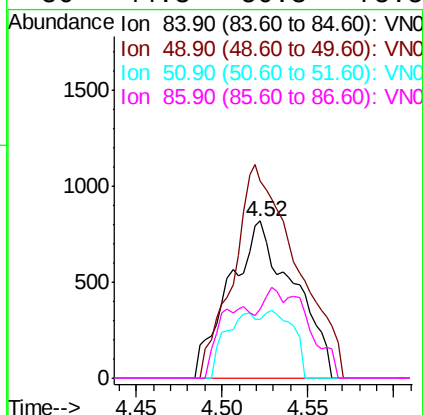
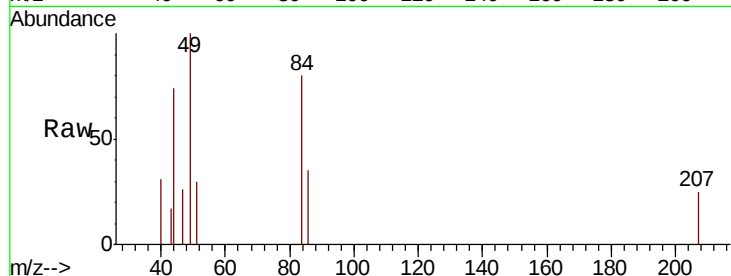
#20
Methvlene Chloride
Concen: 0.404 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:	84	Resp:	2135
Ion	Ratio	Lower	Upper
84	100		
49	125.5	107.6	161.4
51	37.6	31.4	47.0
86	44.3	50.3	75.5#

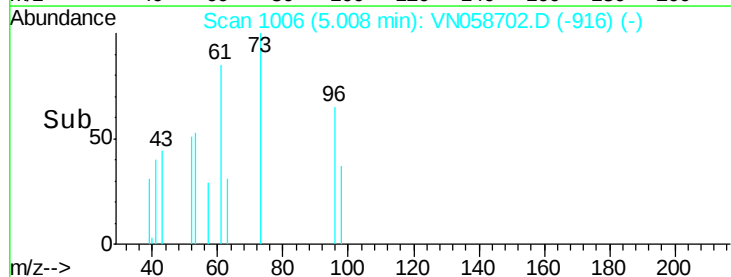
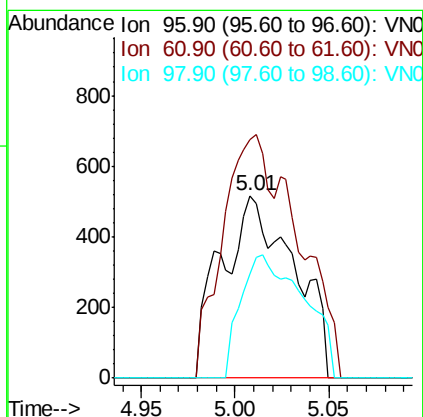
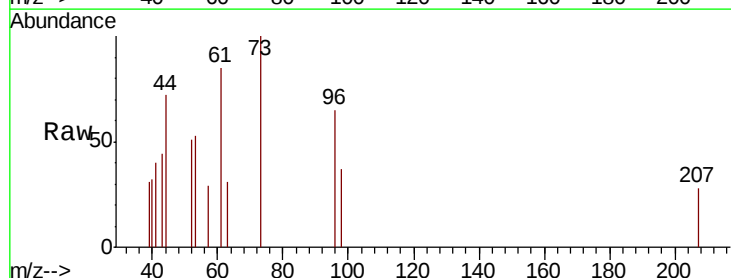
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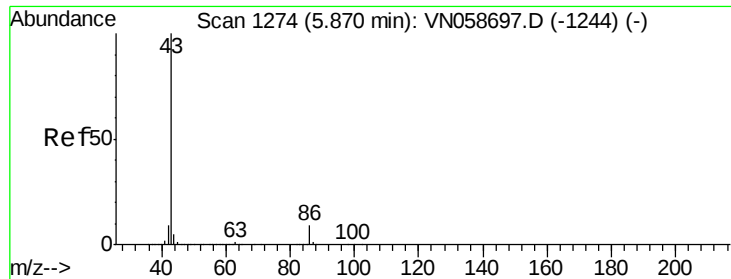
MMDadoda
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#21
trans-1,2-Dichloroethene
Concen: 0.295 ug/l m
RT: 5.01 min Scan# 1006
Delta R.T. -0.01 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion:	96	Resp:	1383
Ion	Ratio	Lower	Upper
96	100		
61	130.6	123.6	185.4
98	57.0	52.1	78.1





#23

Vinyl Acetate

Concen: 1.049 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 13919

Ion Ratio Lower Upper

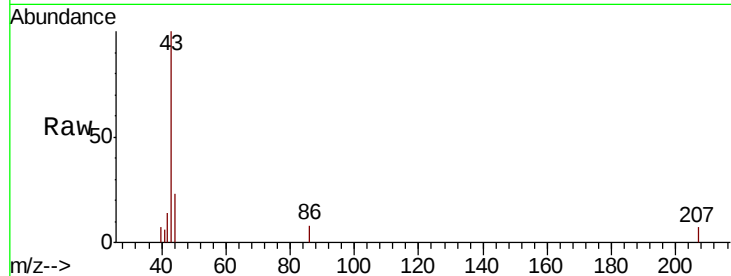
43 100

86 8.3 7.4 11.0

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.88

4000

3000

2000

1000

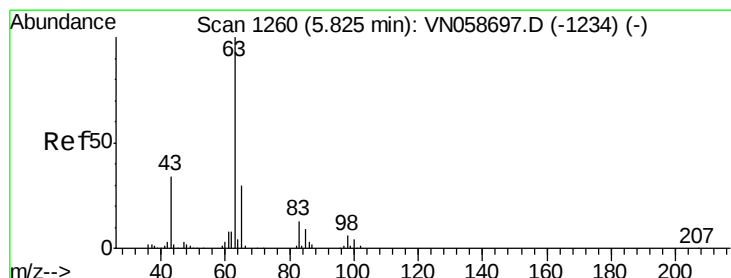
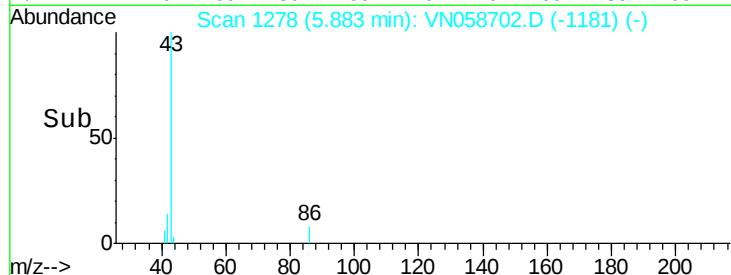
0

5.80

5.90

6.00

Time-->



#24

1,1-Dichloroethane

Concen: 0.230 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

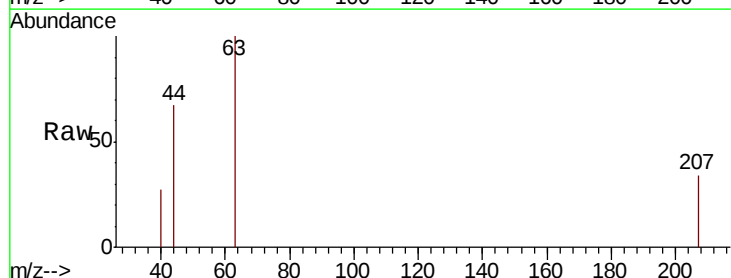
Tgt Ion: 63 Resp: 2151

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

5.82

1000

800

600

400

200

0

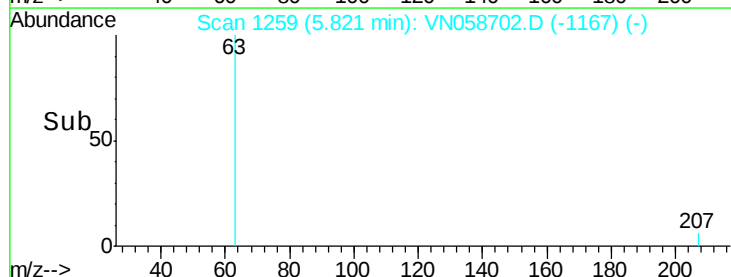
5.75

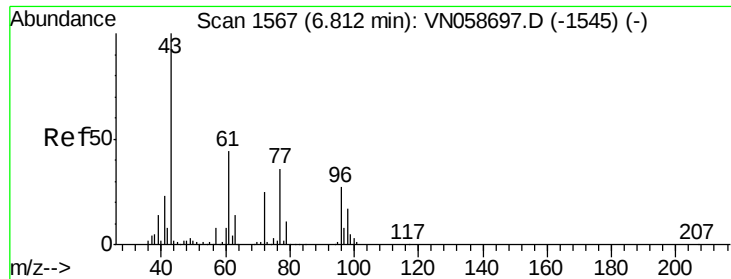
5.80

5.85

5.90

Time-->





#25

2-Butanone

Concen: 1.389 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 5078

Ion Ratio Lower Upper

43 100

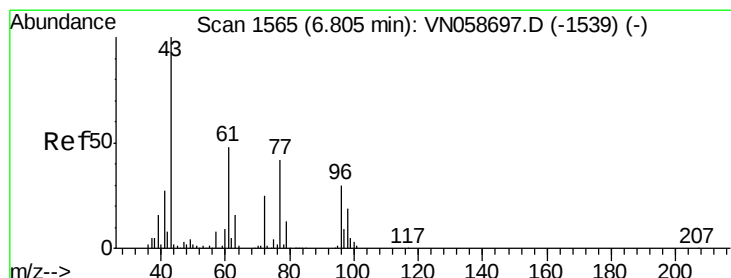
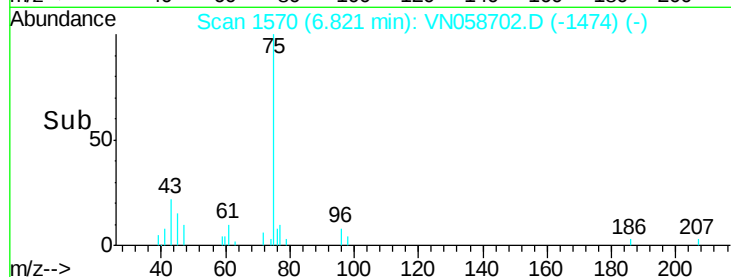
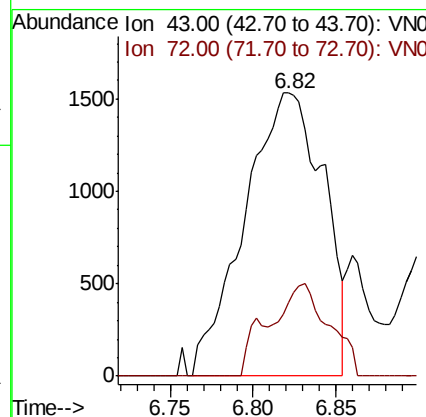
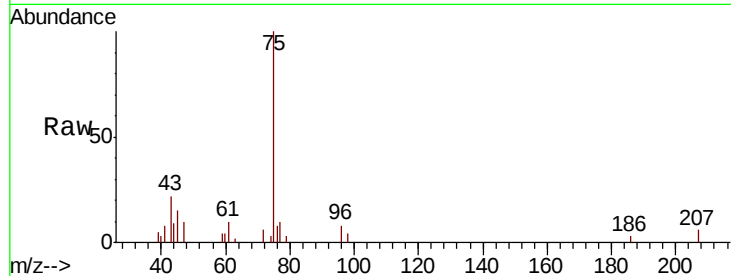
72 25.8 20.2 30.2

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#26

2,2-Dichloropropane

Concen: 0.421 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058702.D

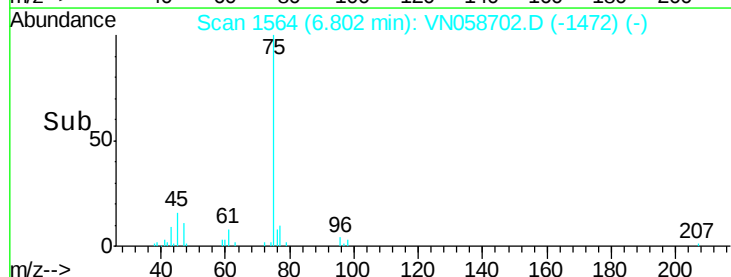
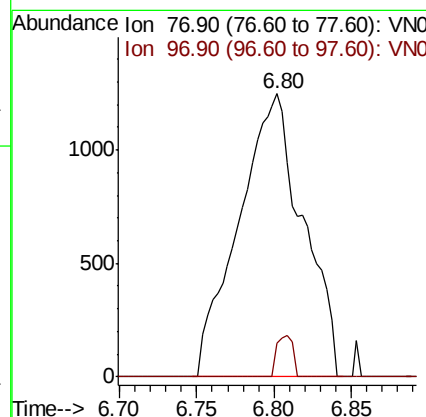
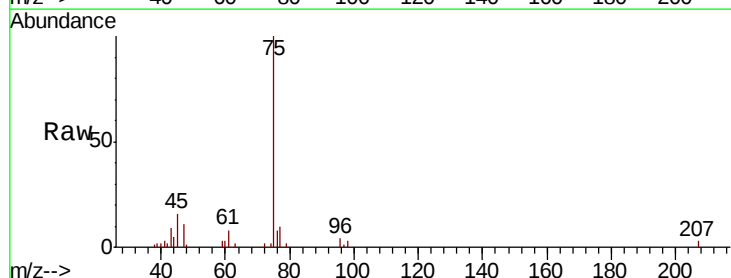
Acq: 11 Oct 2019 14:52

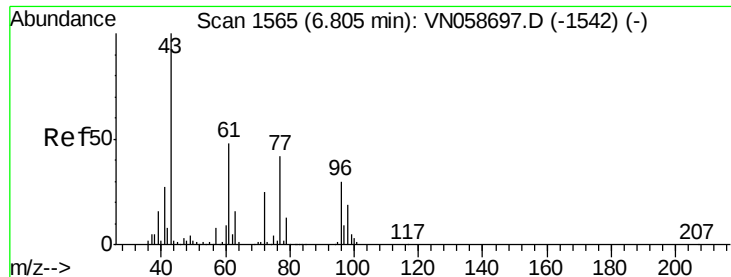
Tgt Ion: 77 Resp: 3602

Ion Ratio Lower Upper

77 100

97 3.6 10.7 31.9#





#27

cis-1,2-Dichloroethene

Concen: 0.262 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

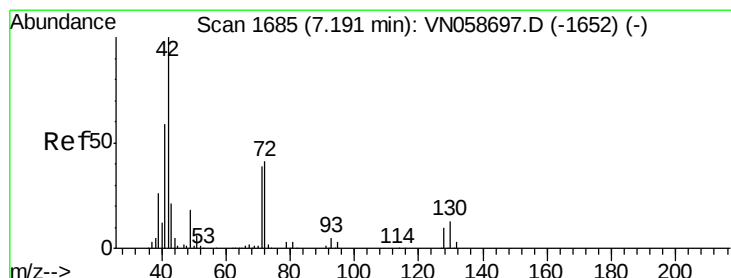
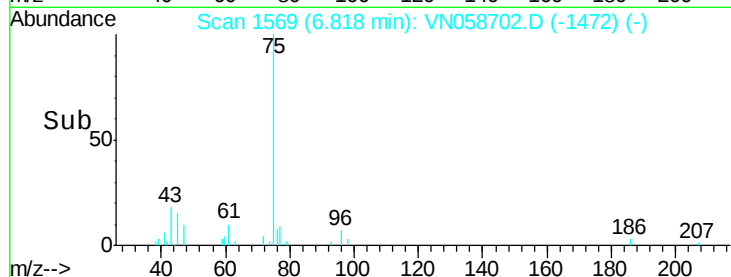
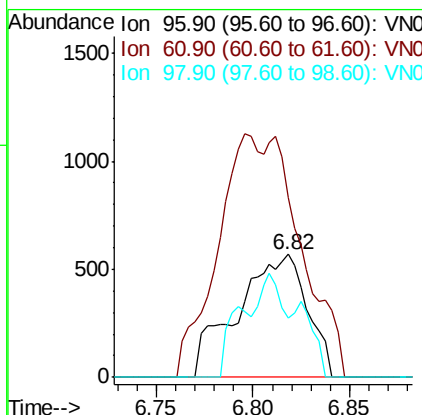
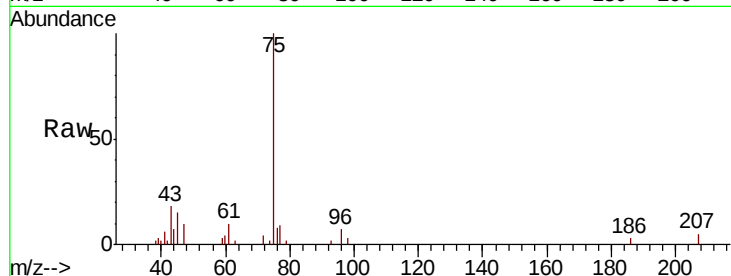
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	1434
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	324.8
98	13.8	0.0	129.2

Manual Integrations
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#29

Tetrahydrofuran

Concen: 1.067 ug/l

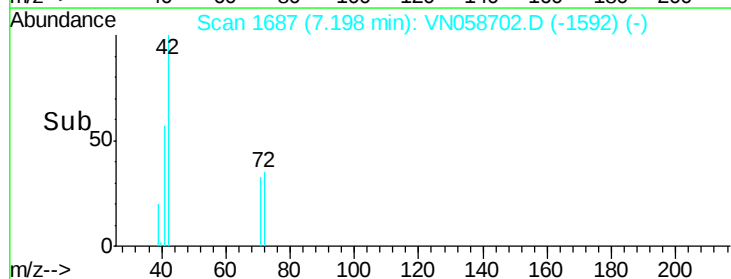
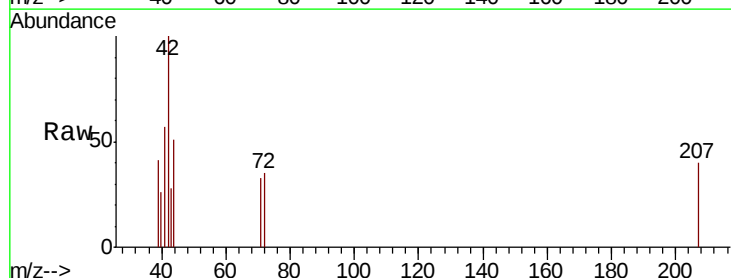
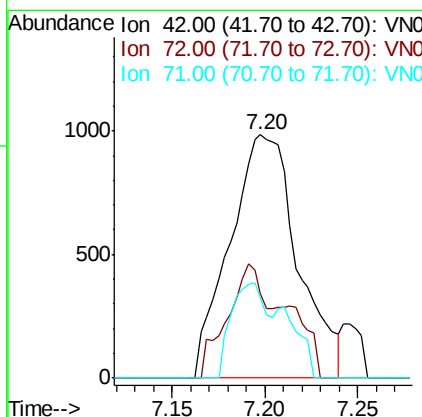
RT: 7.20 min Scan# 1687

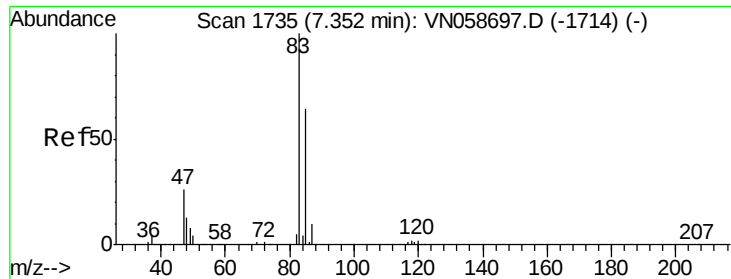
Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	42	Resp:	2521
Ion	Ratio	Lower	Upper
42	100		
72	26.8	32.8	49.2#
71	20.8	31.1	46.7#





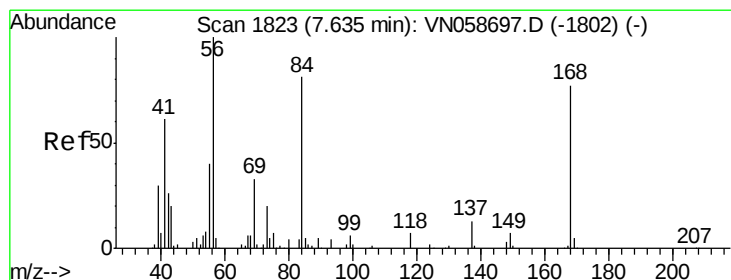
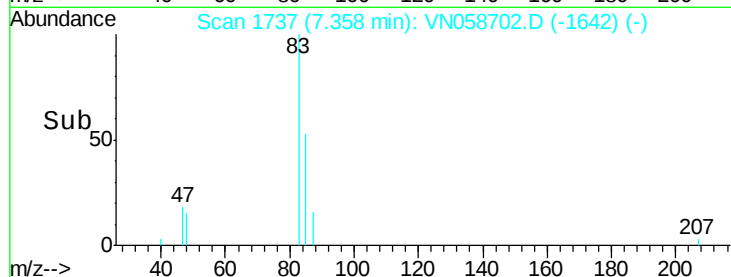
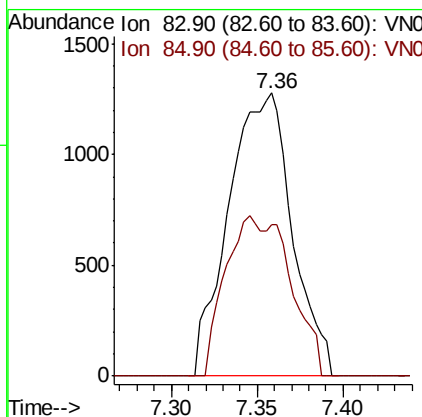
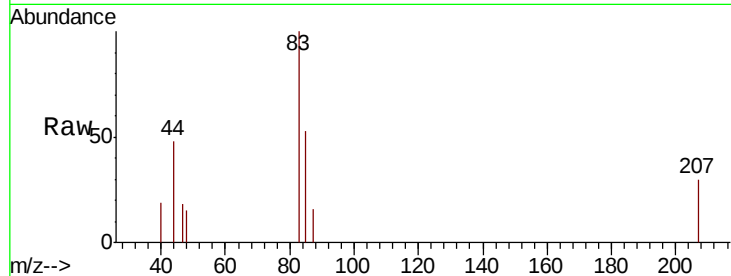
#30
Chloroform
Concen: 0.348 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.01 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	83	Resp	3279
Ion Ratio	100	Lower	Upper
85	53.4	51.0	76.6

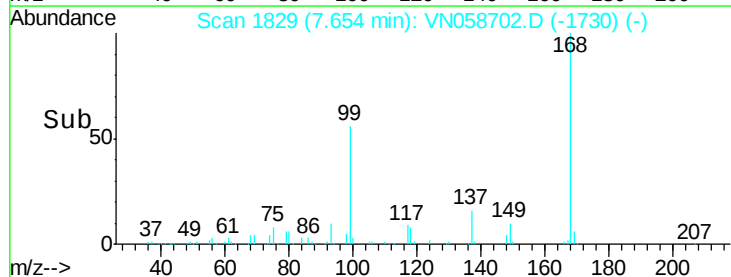
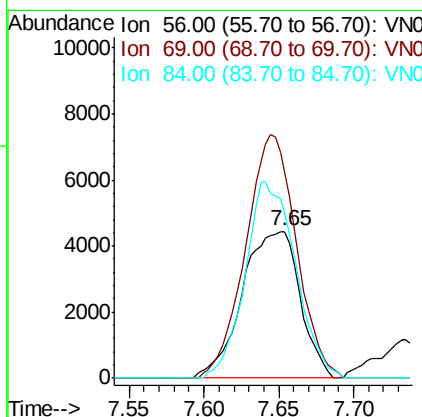
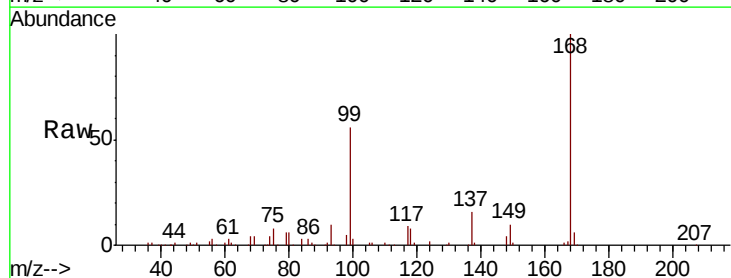
Manual Integrations
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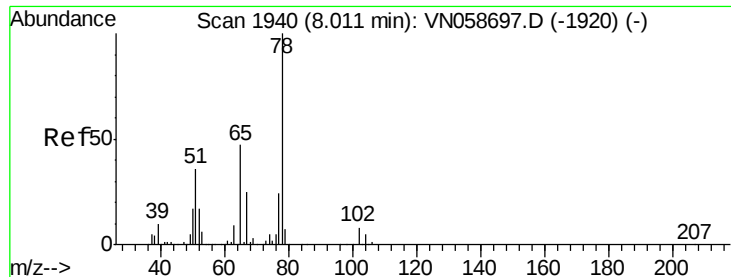
MMDadoda
10/16/2019 12:48:26 AM



#31
Cyclohexane
Concen: 1.329 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	56	Resp	11909
Ion Ratio	100	Lower	Upper
69	140.9	26.2	39.4#
84	112.6	64.9	97.3#





#33

1,2-Dichloroethane-d4

Concen: 50.994 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 65 Resp: 311584

Ion Ratio Lower Upper

65 100

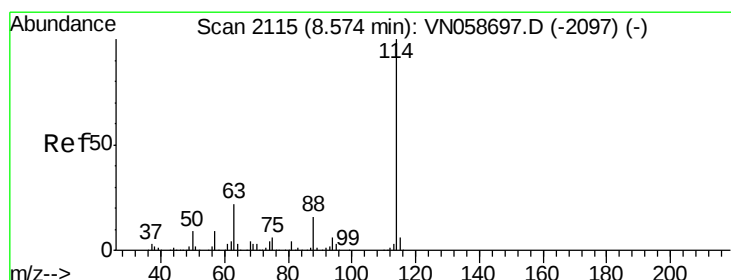
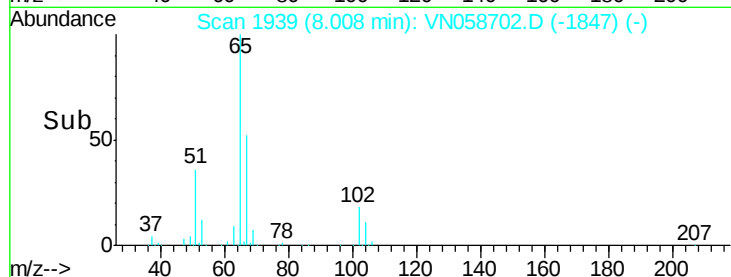
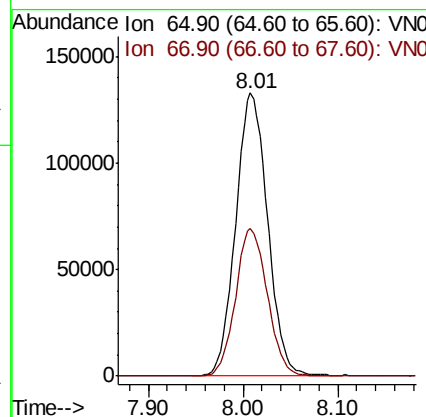
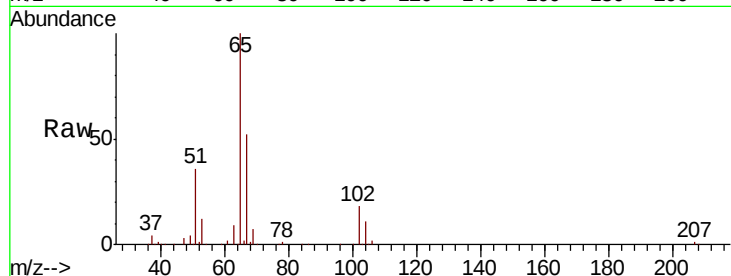
67 51.9 0.0 103.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

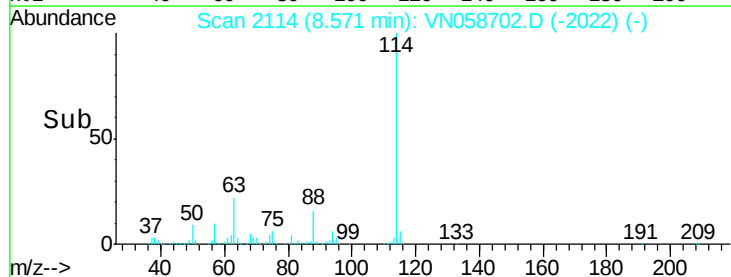
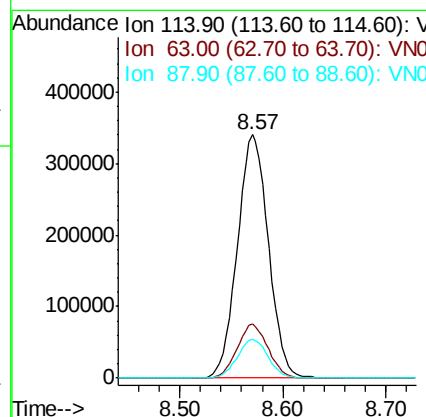
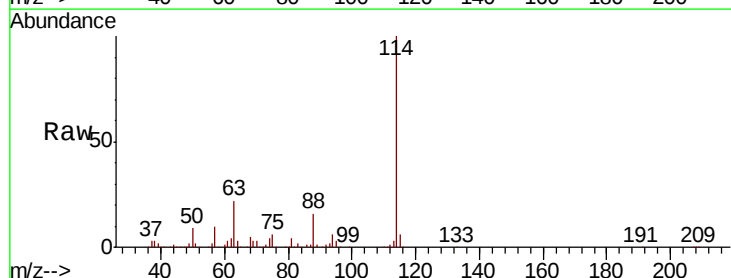
Tgt Ion: 114 Resp: 712297

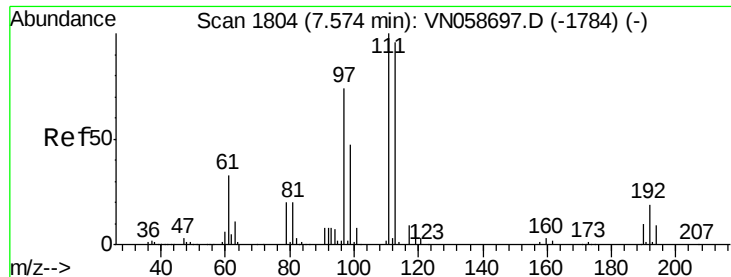
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

88 16.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.832 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

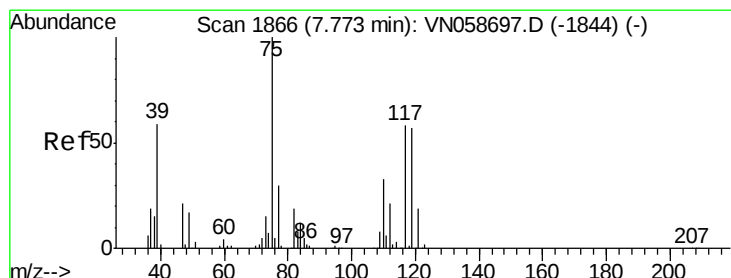
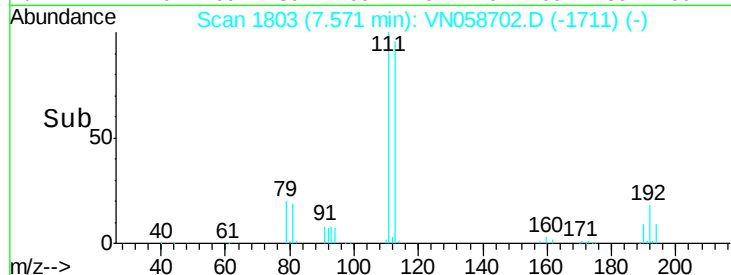
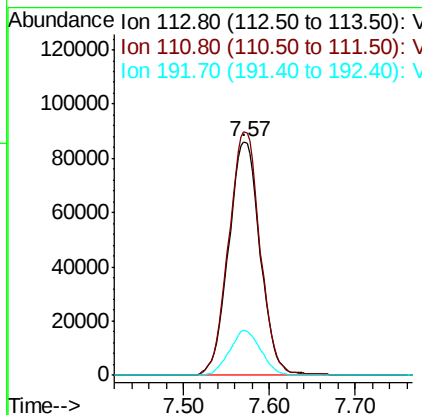
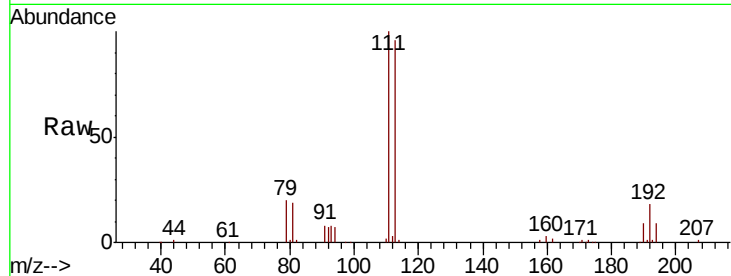
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	219248		
111	104.1	82.3	123.5	
192	19.2	15.0	22.6	

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#36

1,1-Dichloropropene

Concen: 0.291 ug/l

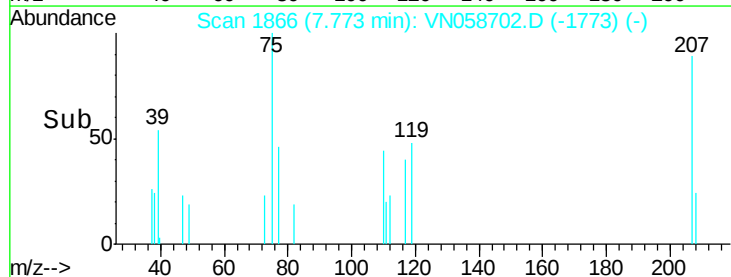
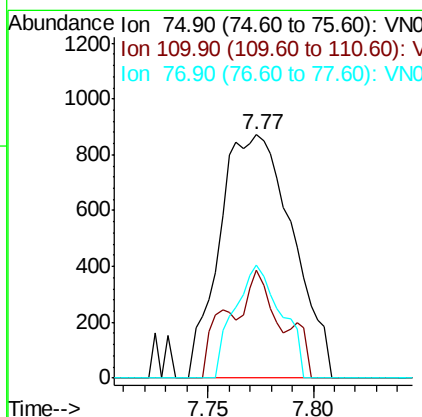
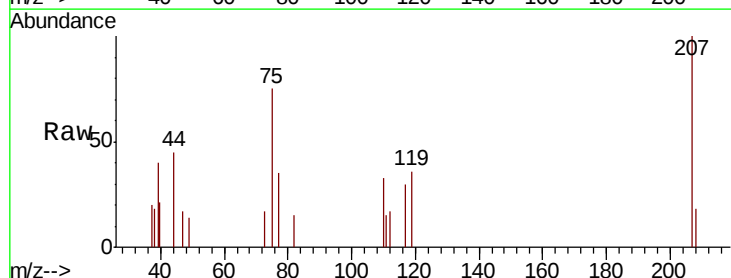
RT: 7.77 min Scan# 1866

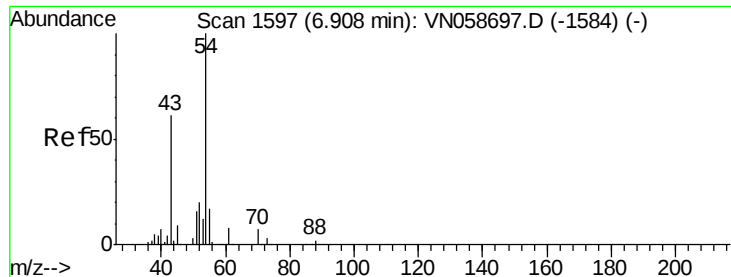
Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	2093		
110	9.6	16.6	49.8#	
77	29.9	24.6	37.0	





#37

Ethyl Acetate

Concen: 0.304 ug/l m

RT: 6.91 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

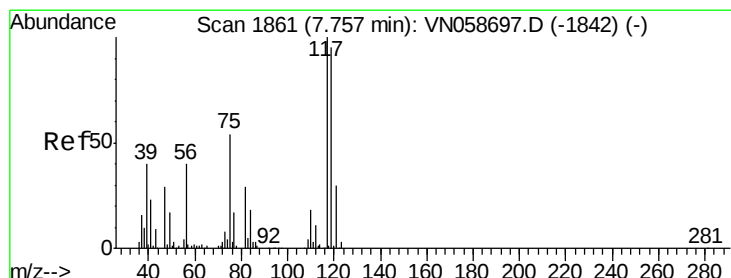
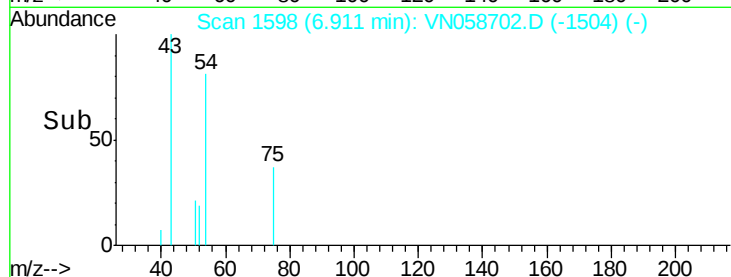
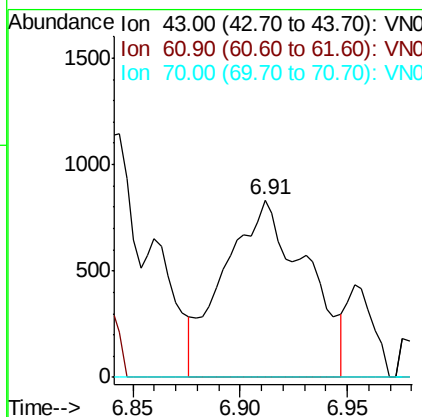
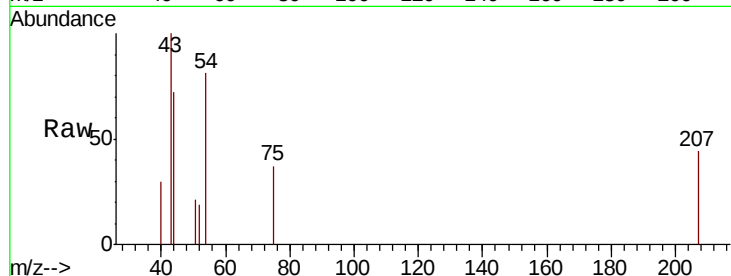
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	43	Resp:	2214
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	7.2	10.8#

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#38

Carbon Tetrachloride

Concen: 0.214 ug/l

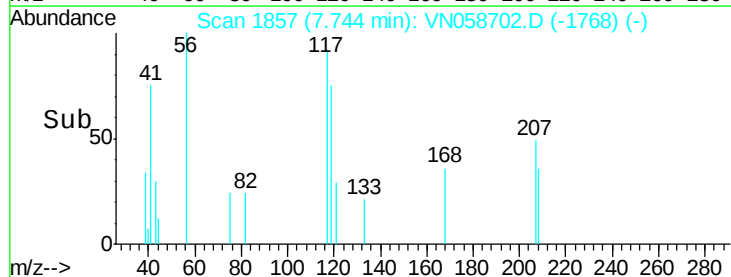
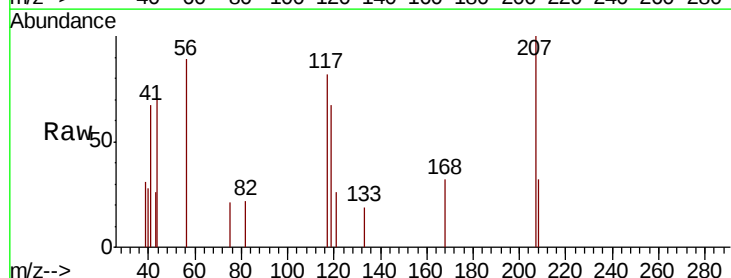
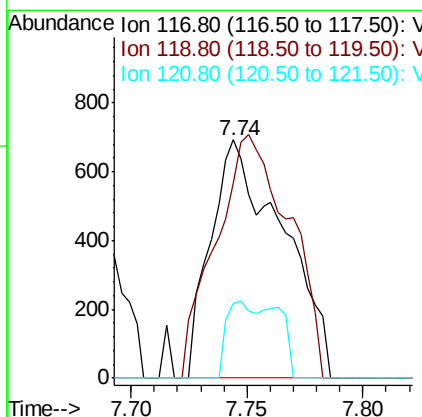
RT: 7.74 min Scan# 1857

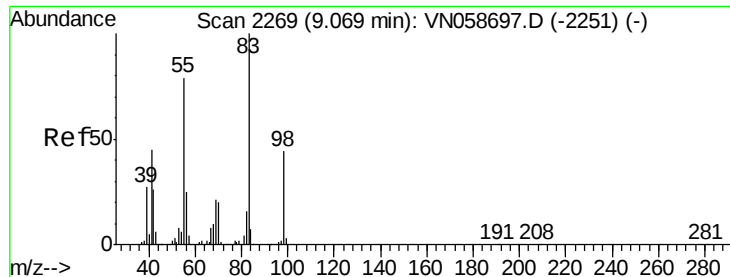
Delta R.T. -0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	117	Resp:	1500
Ion	Ratio	Lower	Upper
117	100		
119	81.8	75.7	113.5
121	31.3	23.9	35.9





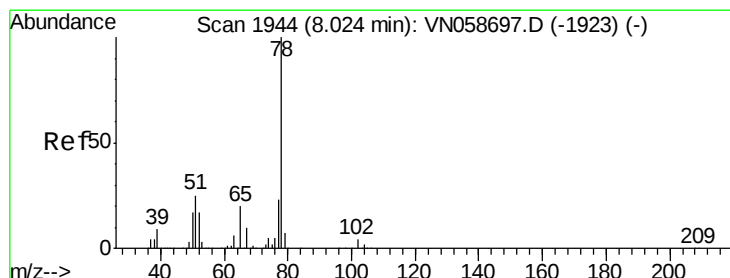
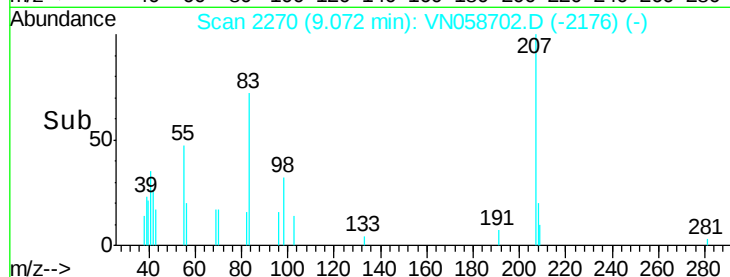
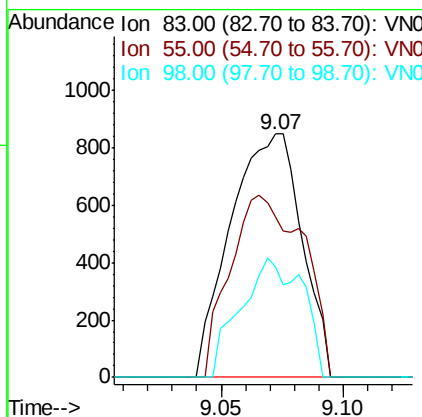
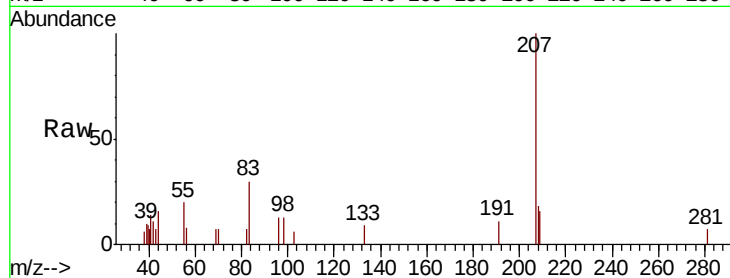
#39
Methvlcvclohexane
Concen: 0.205 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	65.8	63.4	95.0
98	45.3	35.1	52.7

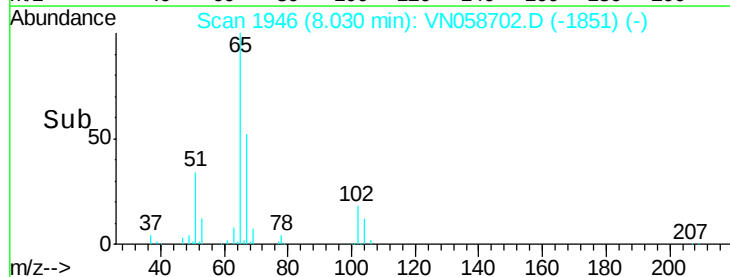
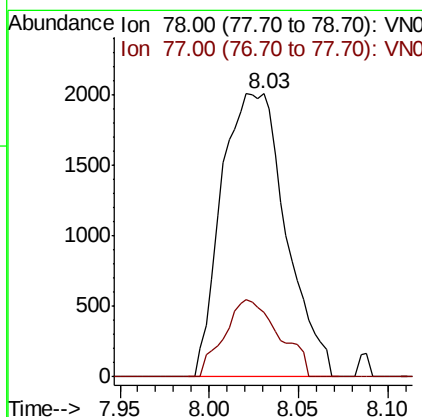
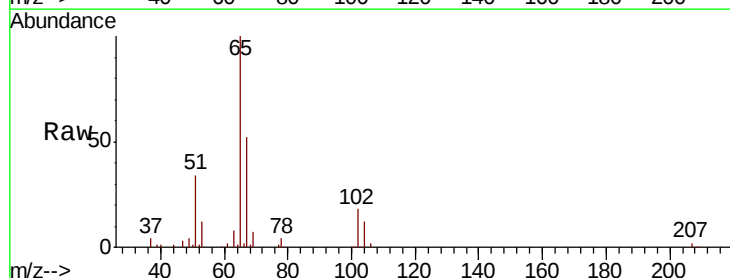
Manual Integrations
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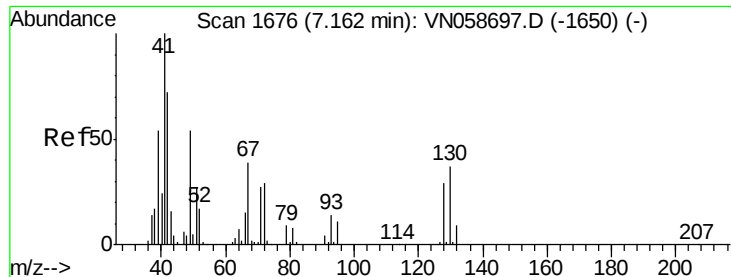
MMDadoda
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#40
Benzene
Concen: 0.244 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.01 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.8	28.2





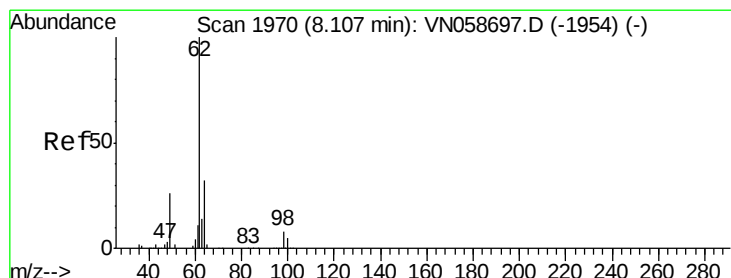
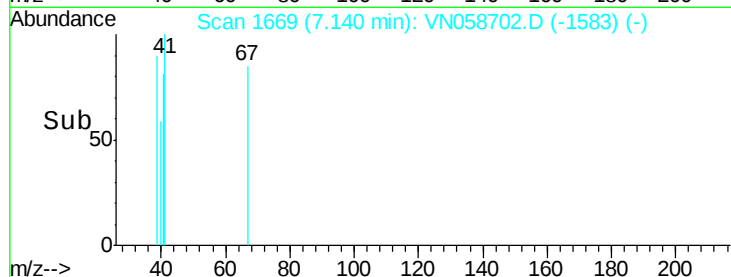
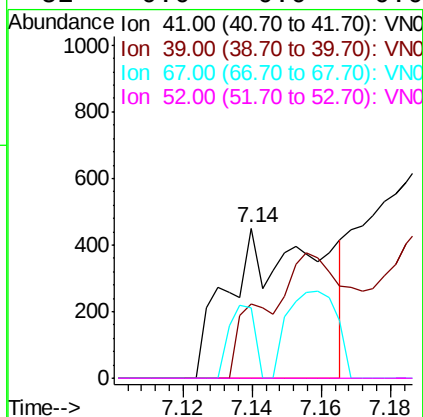
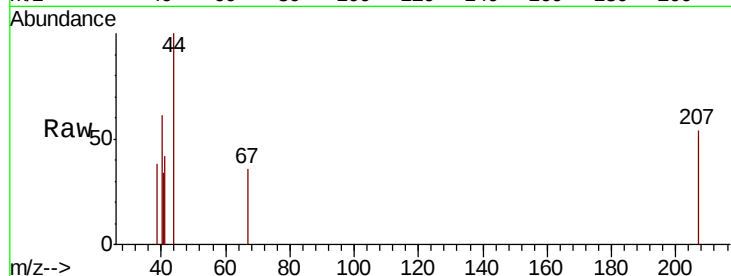
#41
Methacrylonitrile
Concen: 0.245 ug/l m
RT: 7.14 min Scan# 1669
Delta R.T. -0.02 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:	41	Resp:	834
Ion	Ratio	Lower	Upper
41	100		
39	75.8	115.4	173.2#
67	31.4	0.0	0.0#
52	0.0	0.0	0.0

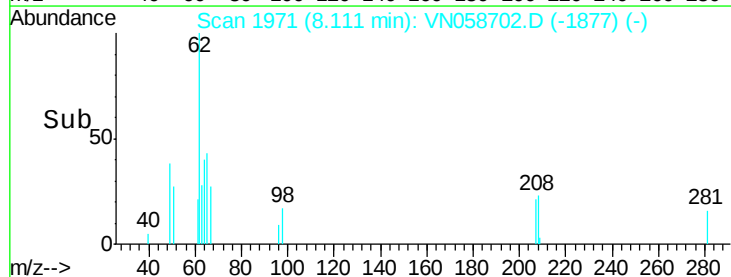
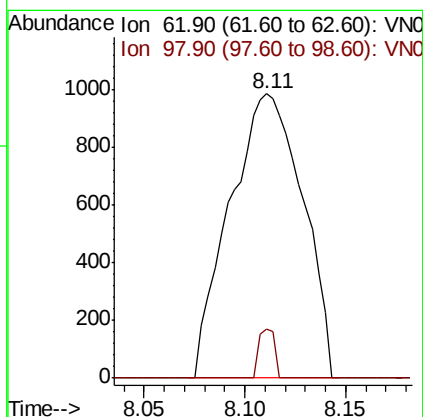
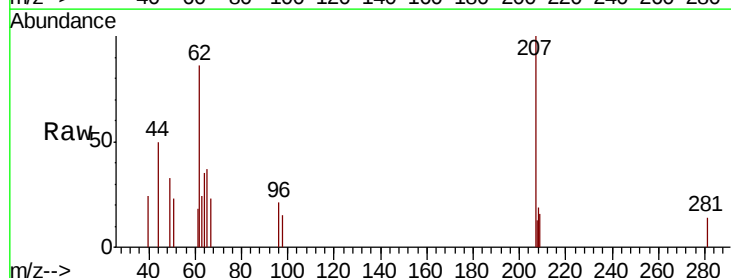
Manual Integrations
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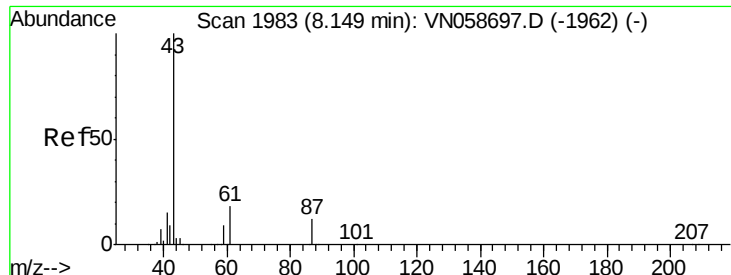
MMDadoda
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#42
1,2-Dichloroethane
Concen: 0.310 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion:	62	Resp:	2461
Ion	Ratio	Lower	Upper
62	100		
98	3.7	0.0	15.8





#43

Isopropyl Acetate

Concen: 0.216 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. -0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

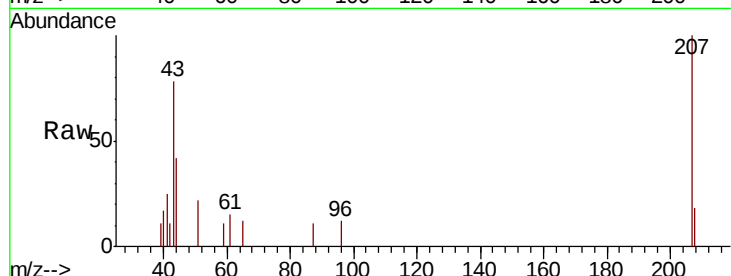
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	43	Resp:	2681
Ion	Ratio	Lower	Upper
43	100		
61	8.9	20.3	30.5#
87	3.9	9.8	14.6#

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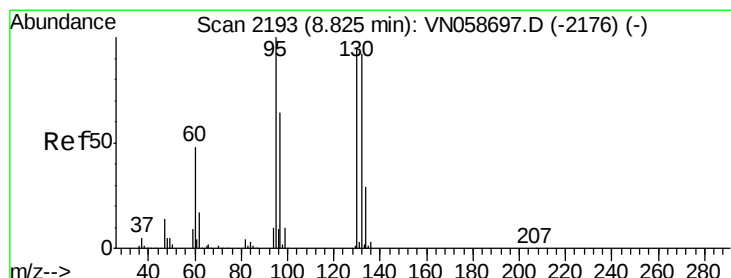
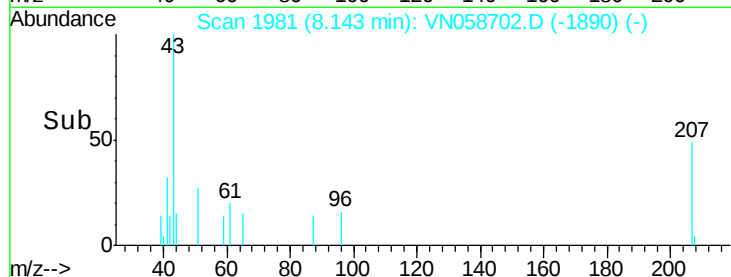
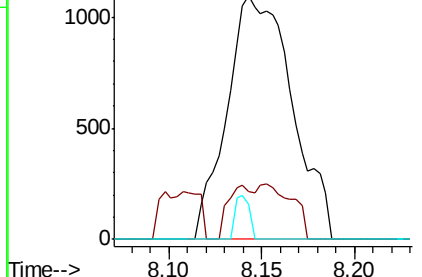
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Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058697.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058697.D (-1962) (-)



#44

Trichloroethene

Concen: 0.265 ug/l

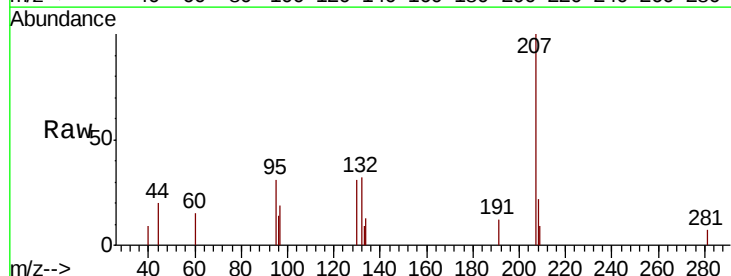
RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058702.D

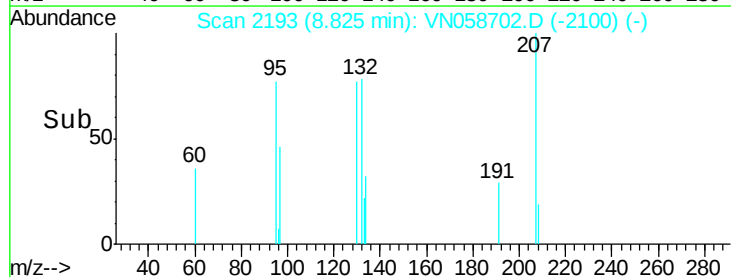
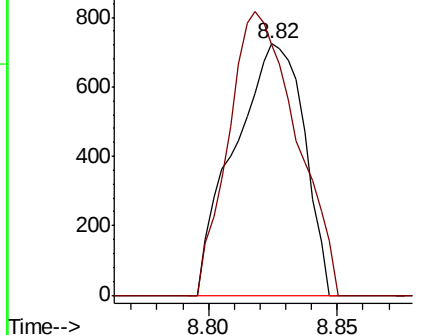
Acq: 11 Oct 2019 14:52

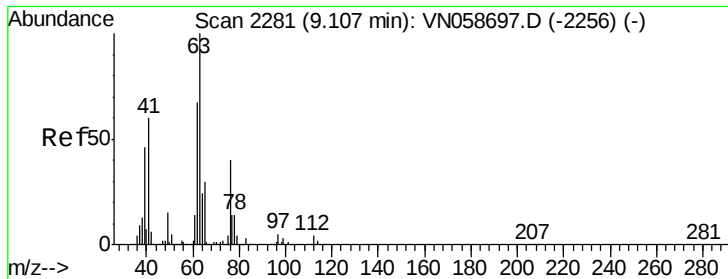
Tgt Ion:	130	Resp:	1359
Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058697.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058697.D (-2176) (-)





#45

1,2-Dichloropropane

Concen: 0.231 ug/l m

RT: 9.11 min Scan# 2283

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 63 Resp: 1277

Ion Ratio Lower Upper

63 100

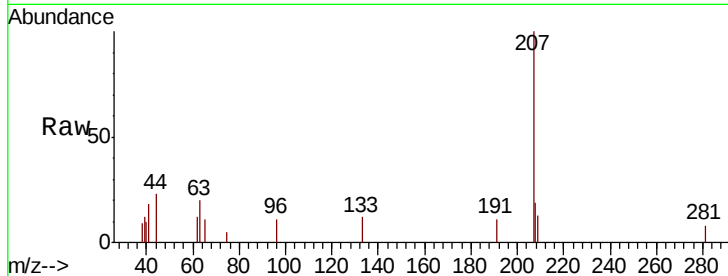
65 56.8 24.1 36.1#

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.11

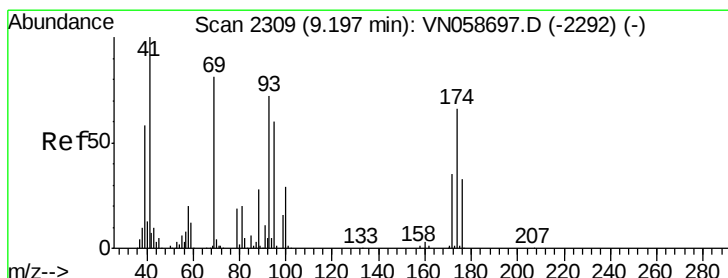
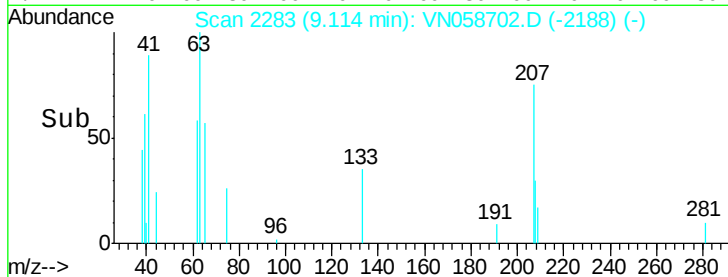
600

400

200

0

Time--> 9.05 9.10 9.15



#46

Dibromomethane

Concen: 0.223 ug/l m

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

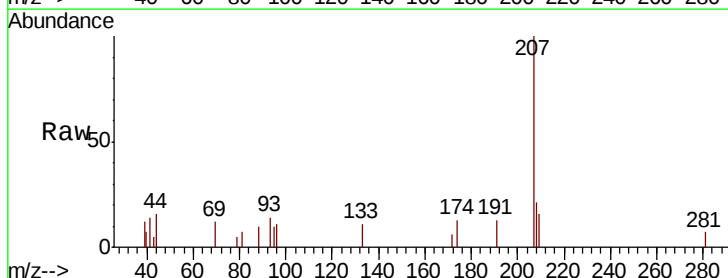
Tgt Ion: 93 Resp: 784

Ion Ratio Lower Upper

93 100

95 78.6 66.6 100.0

174 102.4 75.2 112.8



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

9.20

600

500

400

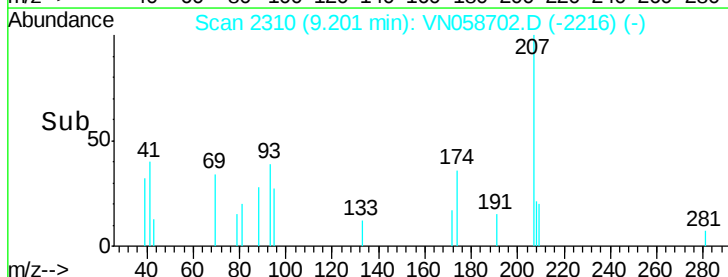
300

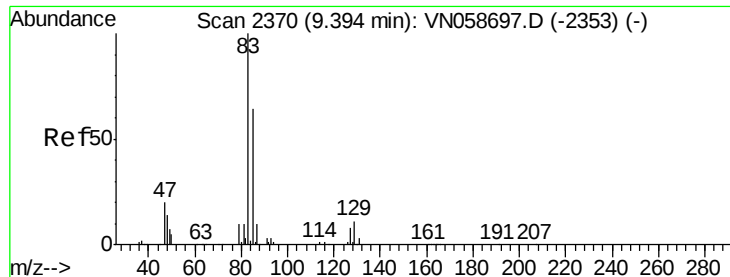
200

100

0

Time--> 9.15 9.20





#47

Bromodichloromethane

Concen: 0.215 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

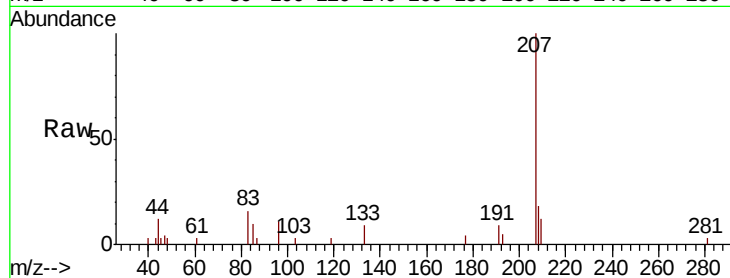
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	1536
Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.9	76.3
127	0.0	6.3	9.5#

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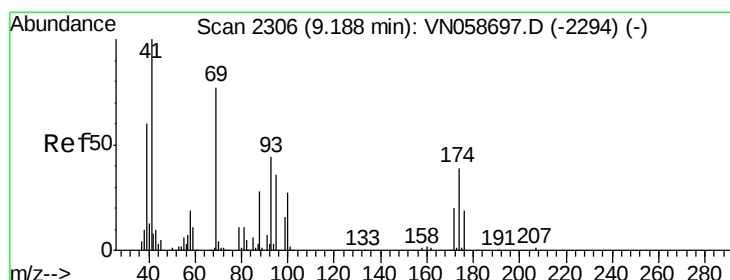
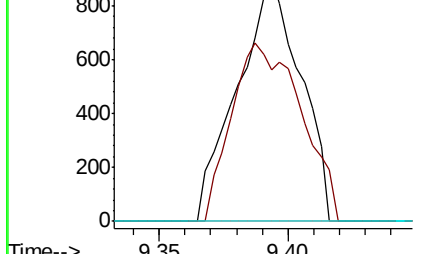
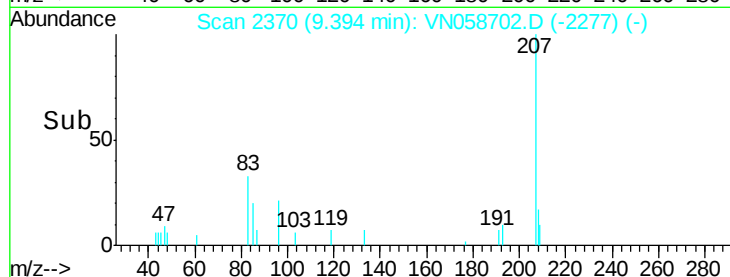


Abundance Ion 82.90 (82.60 to 83.60): VN058702.D (-2277) (-)

Ion 84.90 (84.60 to 85.60): VN058702.D (-2277) (-)

Ion 126.80 (126.50 to 127.50): VN058702.D (-2277) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.212 ug/l

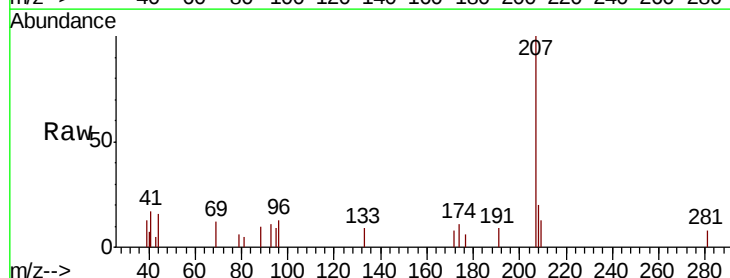
RT: 9.19 min Scan# 2308

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	41	Resp:	1194
Ion	Ratio	Lower	Upper
41	100		
69	64.5	63.4	95.2
39	71.7	48.9	73.3

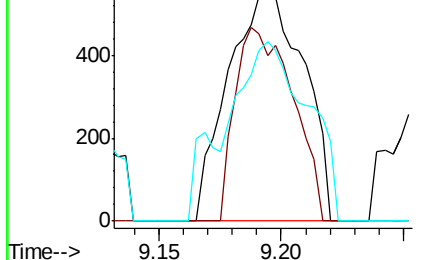
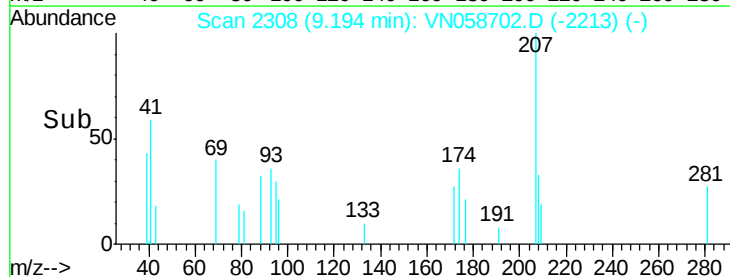


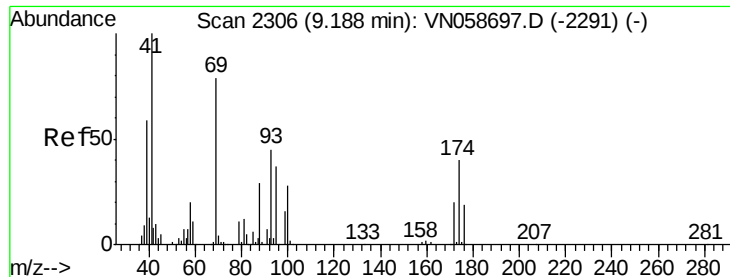
Abundance Ion 41.00 (40.70 to 41.70): VN058702.D (-2213) (-)

Ion 69.00 (68.70 to 69.70): VN058702.D (-2213) (-)

Ion 39.00 (38.70 to 39.70): VN058702.D (-2213) (-)

Time-->





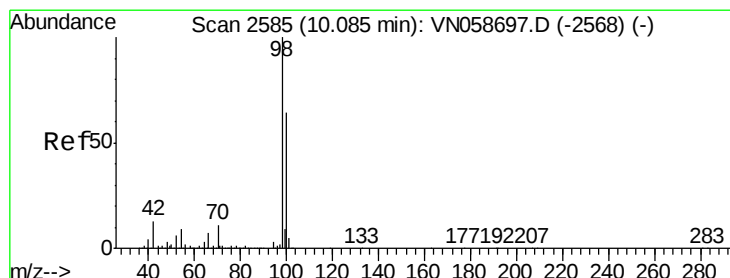
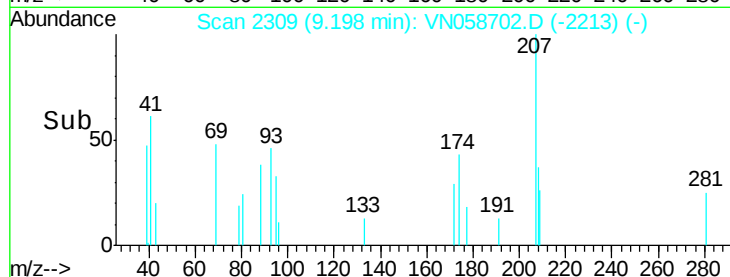
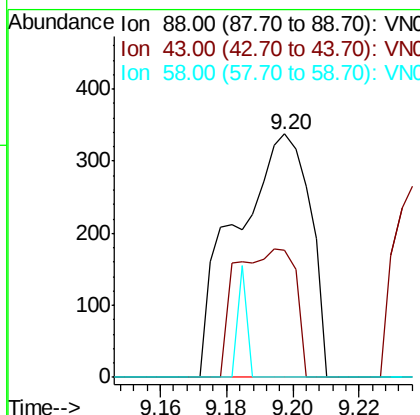
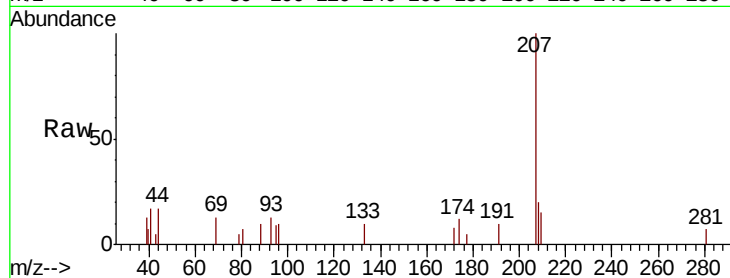
#49
1,4-Dioxane
Concen: 6.022 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.01 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.2	28.6	43.0
58	5.7	57.2	85.8#

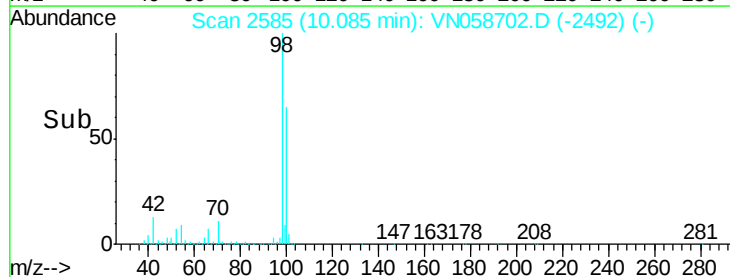
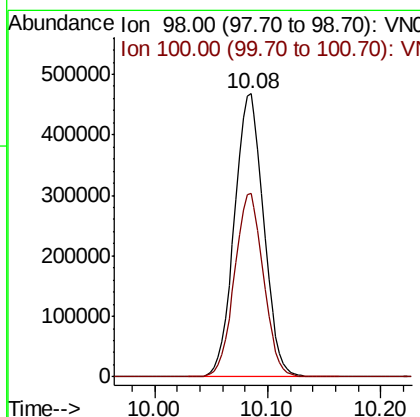
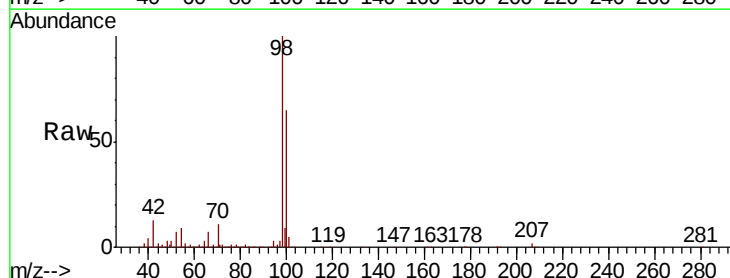
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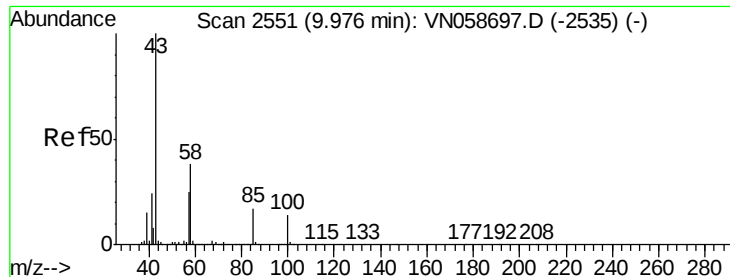
MMDadoda
10/16/2019 12:48:26 AM



#50
Toluene-d8
Concen: 48.007 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 1.186 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 8262

Ion Ratio Lower Upper

43 100

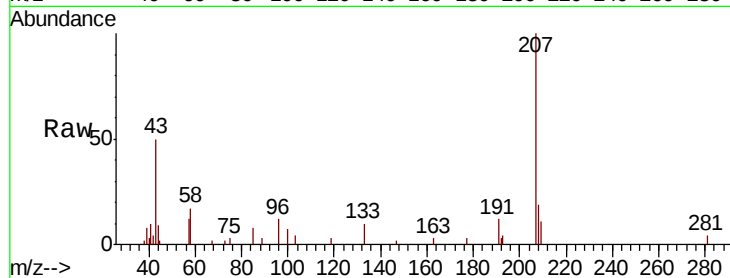
58 33.7 30.3 45.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-2535) (-)

9.98

4000

3000

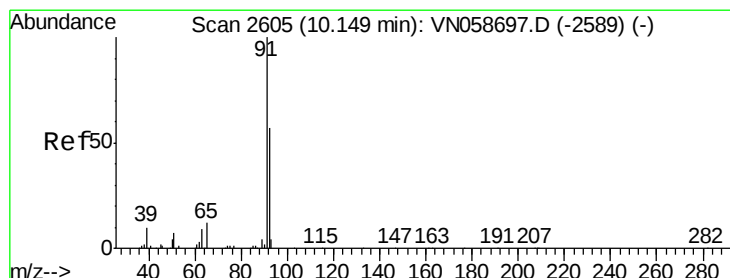
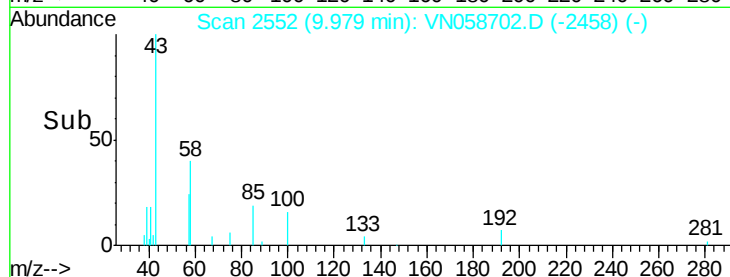
2000

1000

0

9.90 9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 0.246 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN058702.D

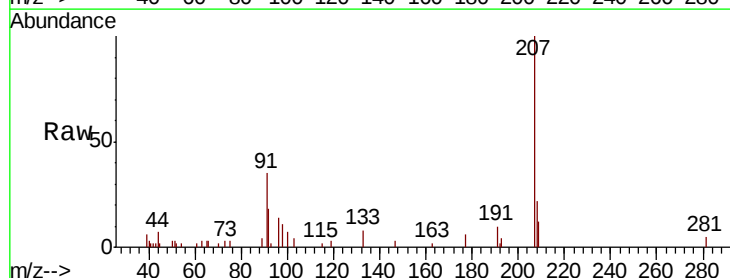
Acq: 11 Oct 2019 14:52

Tgt Ion: 92 Resp: 3114

Ion Ratio Lower Upper

92 100

91 187.7 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN058697.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-2589) (-)

10.15

3000

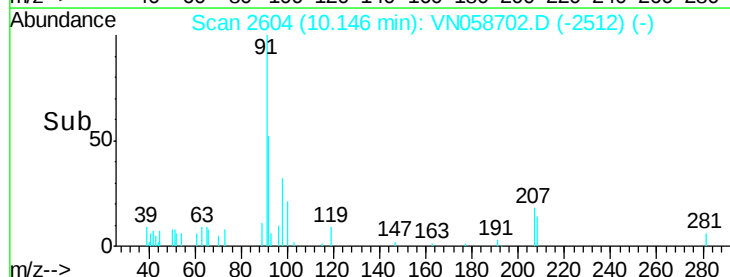
2000

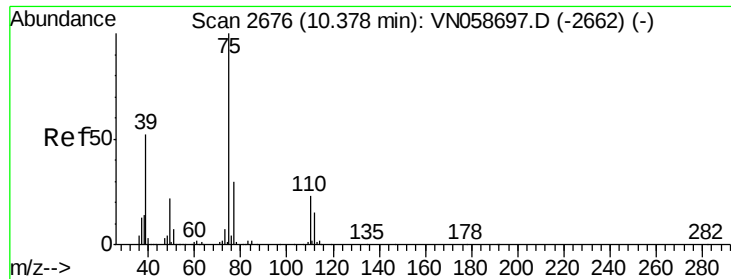
1000

0

10.10 10.15 10.20

Time-->





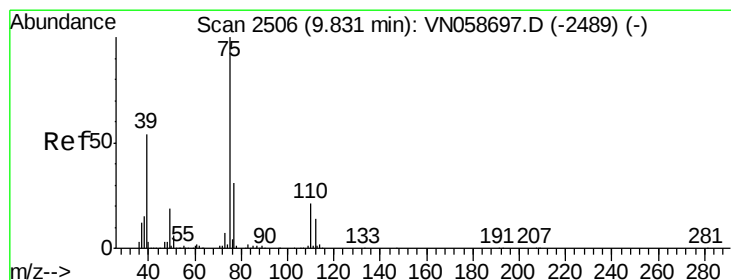
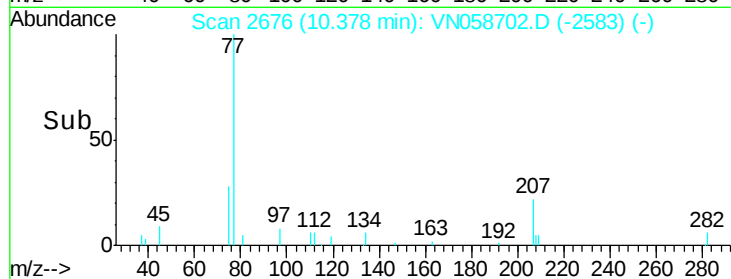
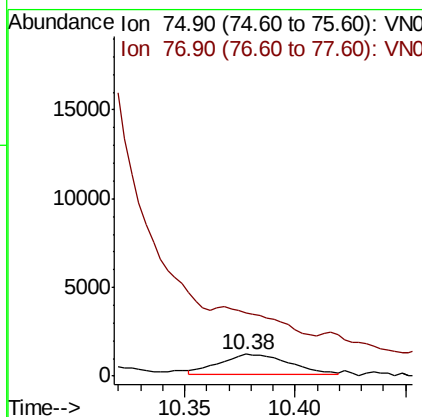
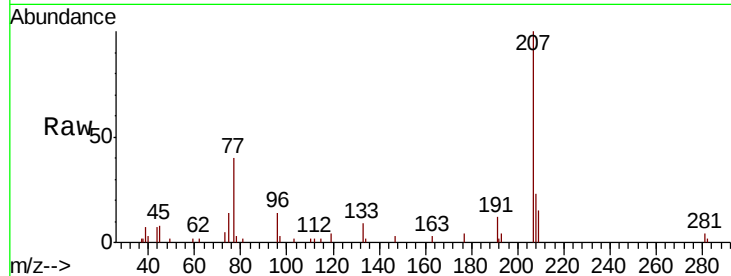
#53
t-1,3-Dichloropropene
Concen: 0.296 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 2428
Ion Ratio Lower Upper
75 100
77 122.6 26.2 39.4#

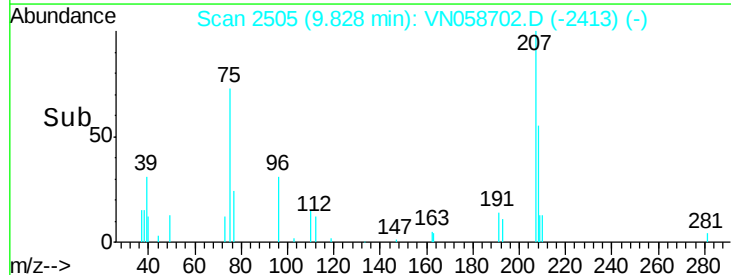
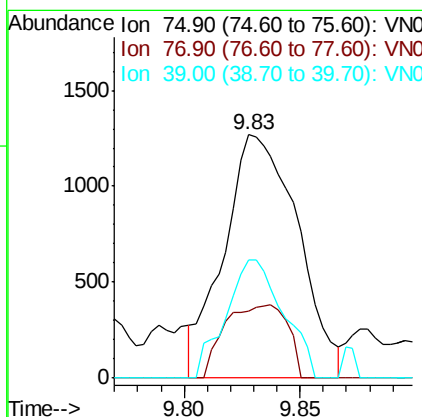
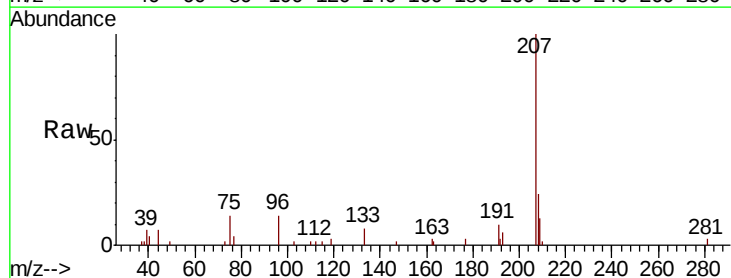
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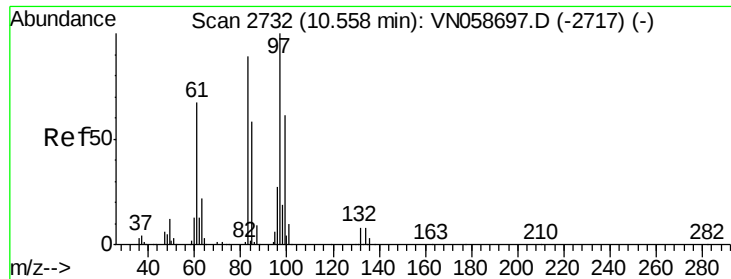
MMDadoda
10/16/2019 12:48:26 AM



#54
cis-1,3-Dichloropropene
Concen: 0.322 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. -0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion: 75 Resp: 2807
Ion Ratio Lower Upper
75 100
77 31.6 24.4 36.6
39 55.4 43.1 64.7





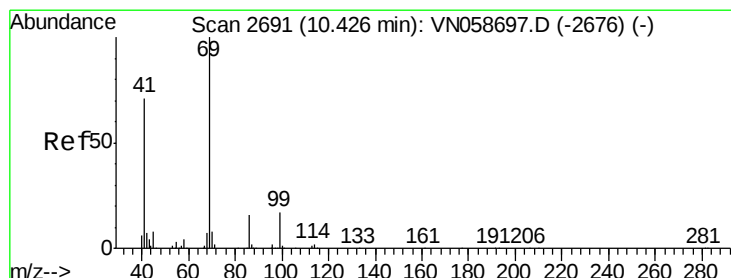
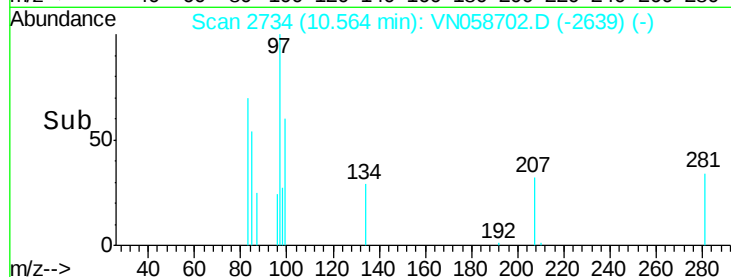
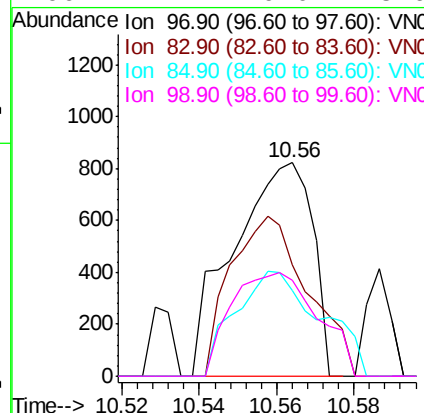
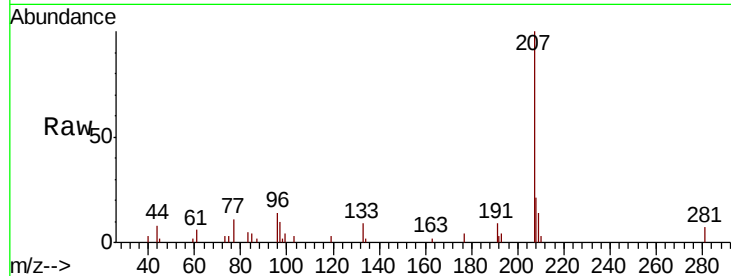
#55
 1,1,2-Trichloroethane
 Concen: 0.226 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.01 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	52.0	71.2	106.8#
85	40.3	46.7	70.1#
99	44.7	49.0	73.6#

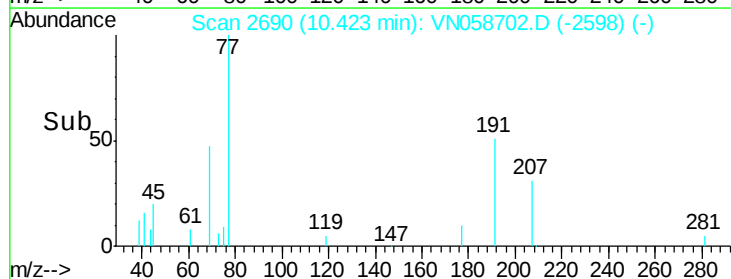
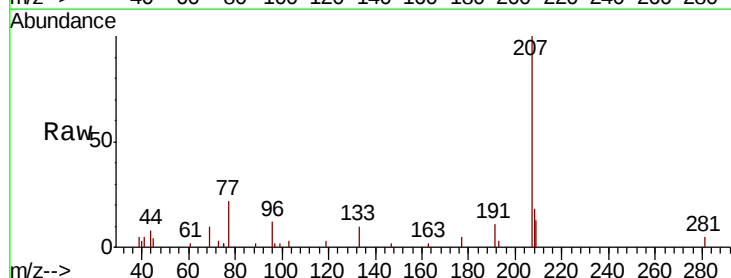
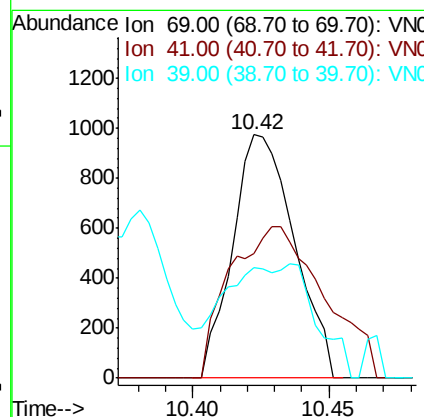
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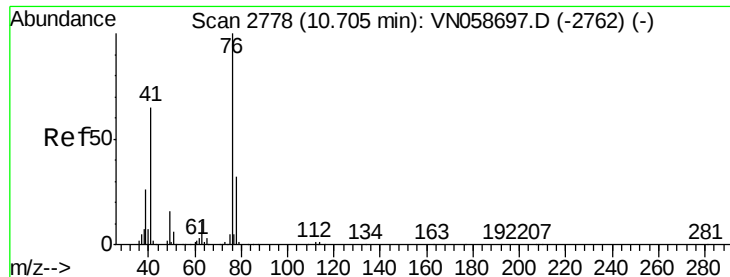
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 0.202 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. -0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
69	100		
41	95.0	56.8	85.2#
39	18.2	32.5	48.7#





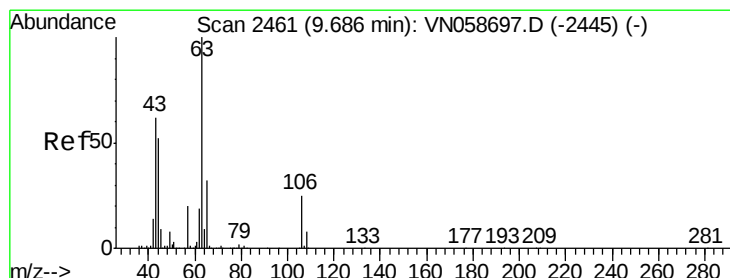
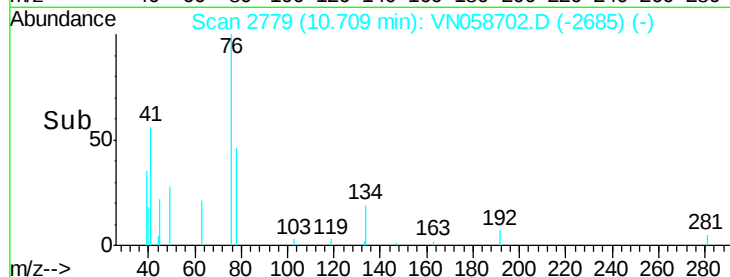
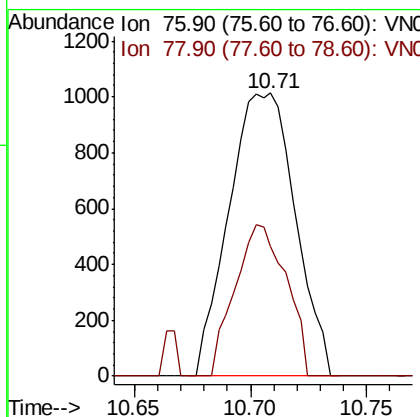
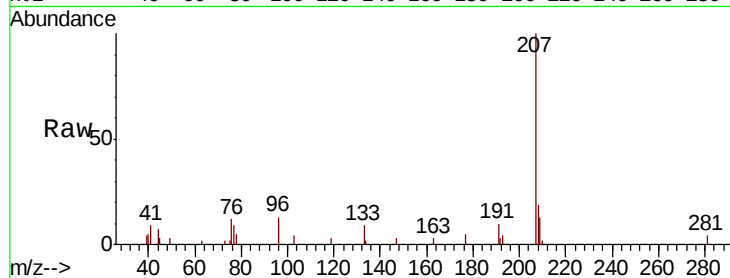
#57
 1,3-Dichloropropane
 Concen: 0.228 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	41.5	25.9	38.9#

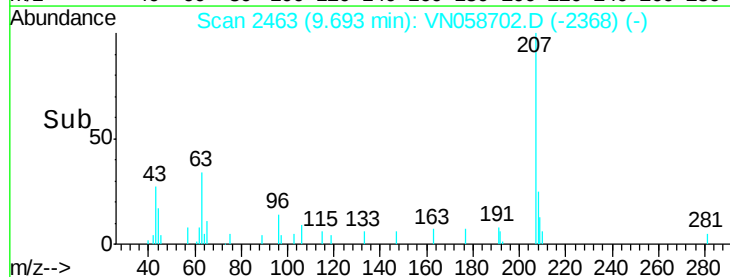
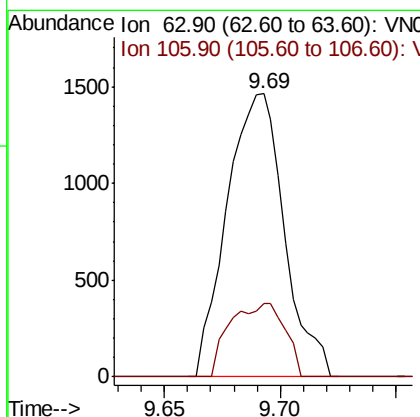
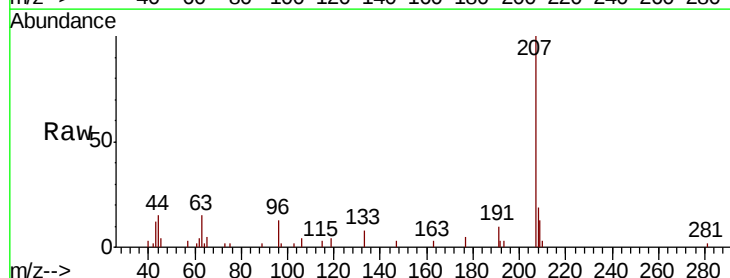
Manual Integrations
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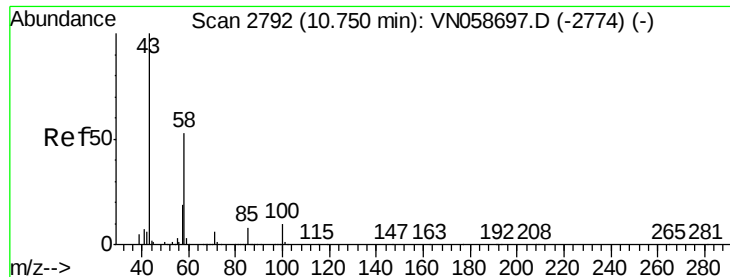
MMDadoda
 10/16/2019 12:48:26 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.690 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.01 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.7	20.0	30.0





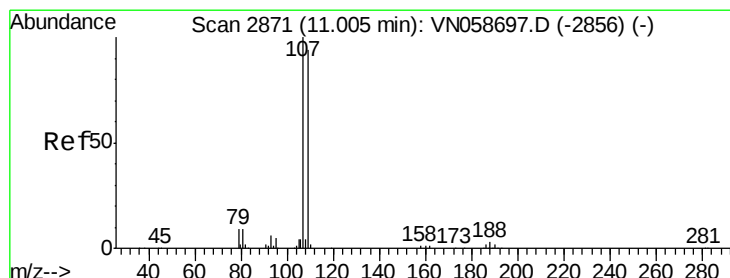
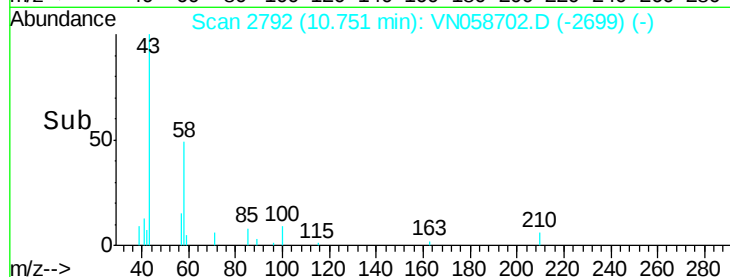
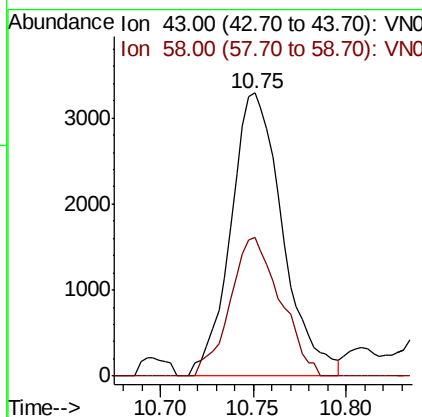
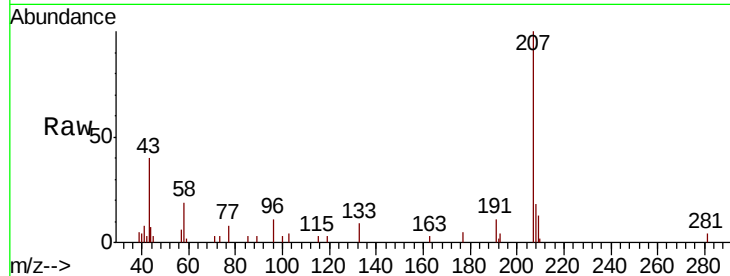
#59
2-Hexanone
Concen: 1.186 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 6388
Ion Ratio Lower Upper
43 100
58 47.4 26.1 78.3

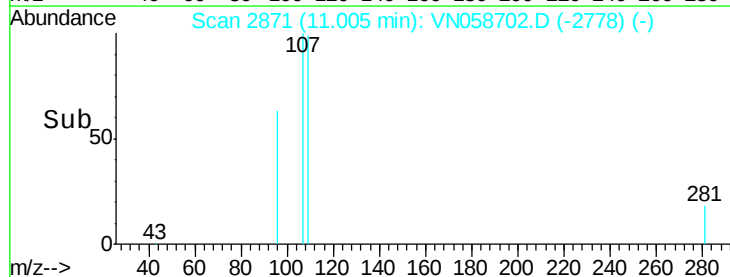
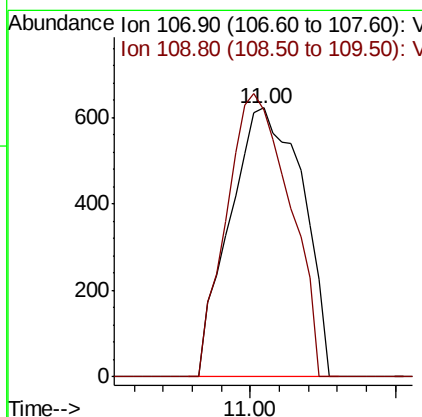
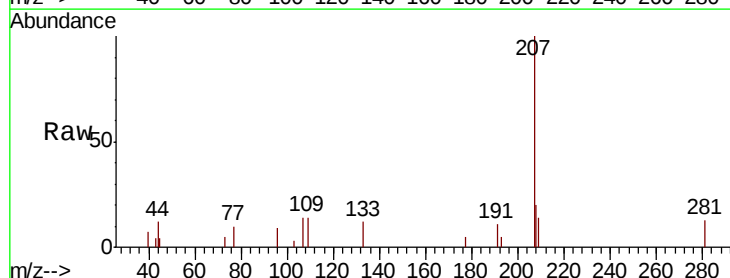
Manual Integrations
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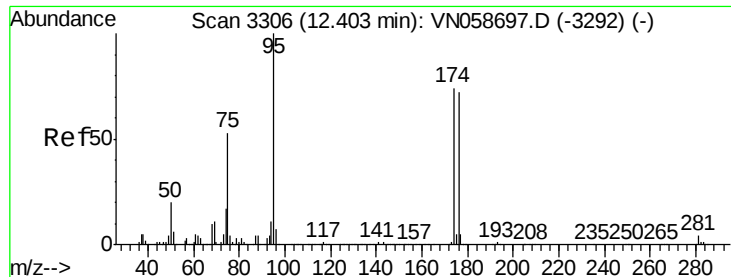
MMDadoda
10/16/2019 12:48:26 AM



#61
1,2-Dibromoethane
Concen: 0.208 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion: 107 Resp: 1081
Ion Ratio Lower Upper
107 100
109 91.9 75.4 113.0





#62

4-Bromofluorobenzene

Concen: 44.464 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

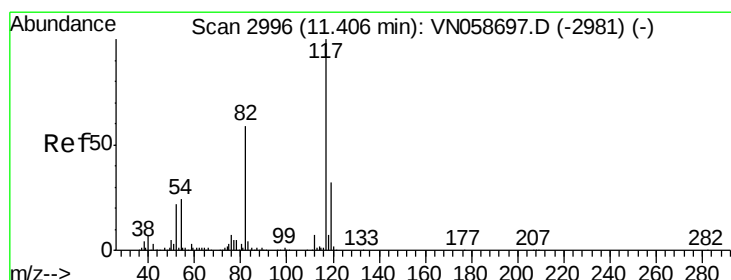
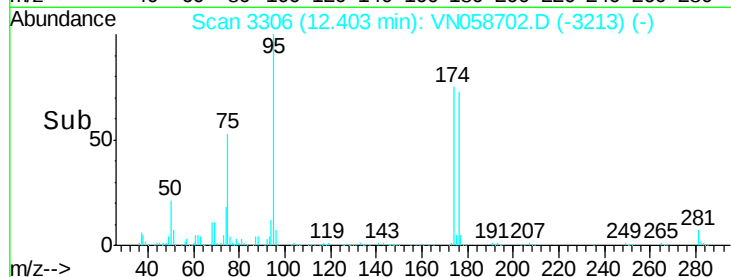
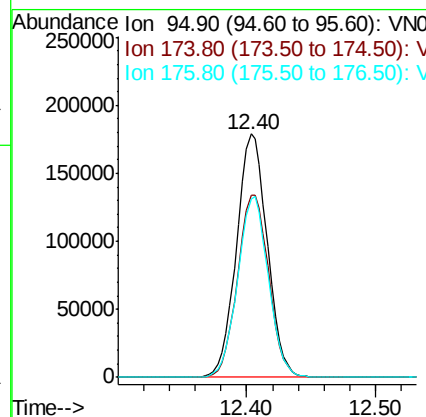
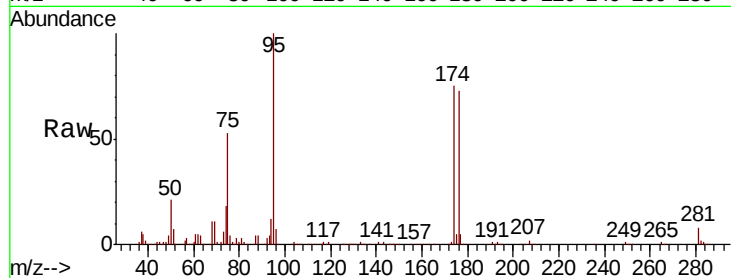
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	95	Resp:	296117
Ion Ratio	Lower	Upper	
95	100		
174	76.1	0.0	150.4
176	74.5	0.0	146.8

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

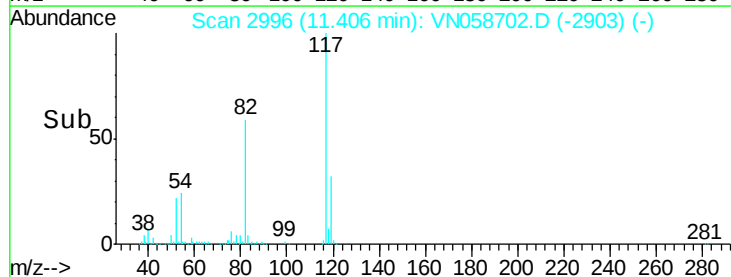
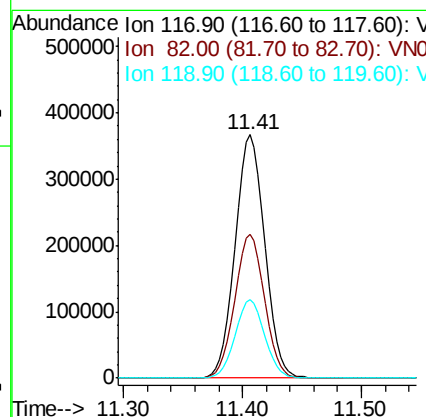
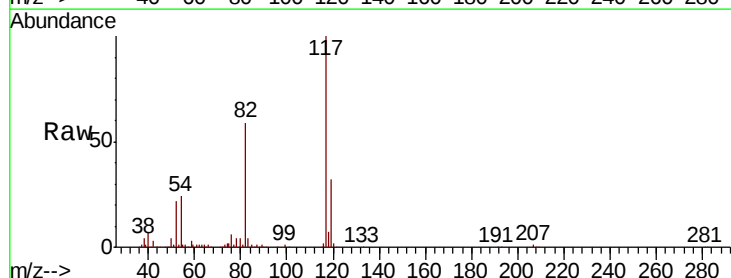
RT: 11.41 min Scan# 2996

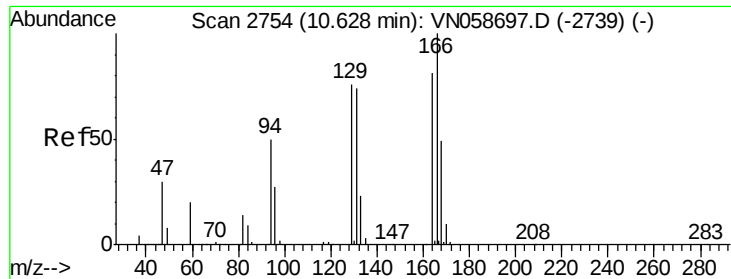
Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	117	Resp:	634258
Ion Ratio	Lower	Upper	
117	100		
82	59.1	47.0	70.4
119	32.0	25.4	38.2





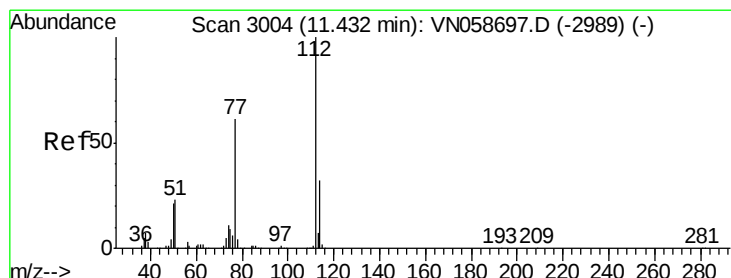
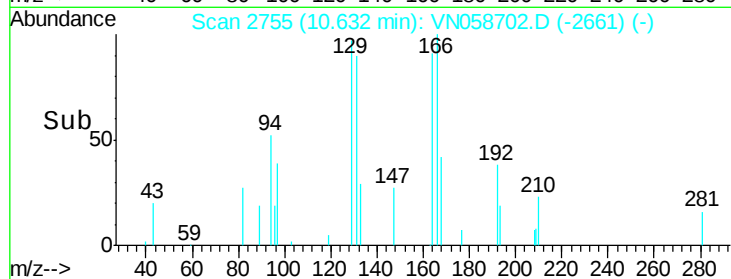
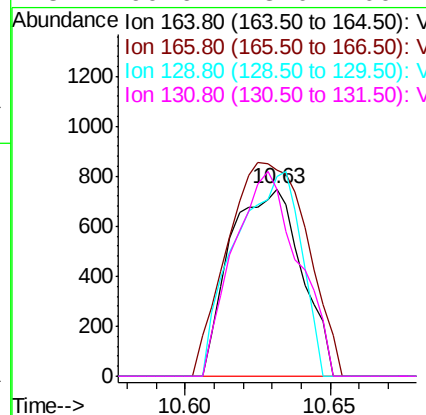
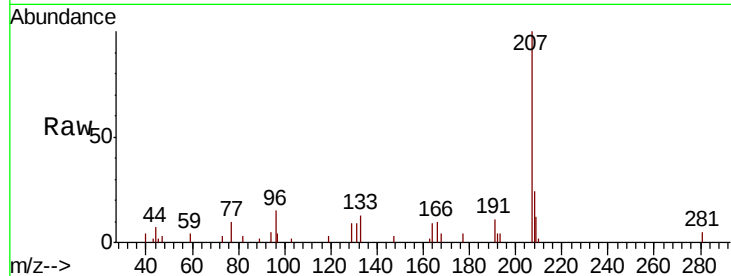
#64
Tetrachloroethene
Concen: 0.288 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	110.3	99.3	148.9
129	106.8	75.2	112.8
131	99.6	73.0	109.4

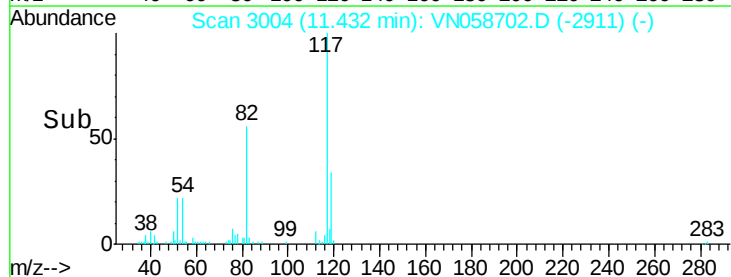
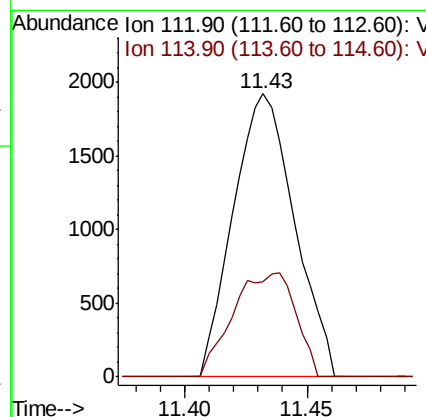
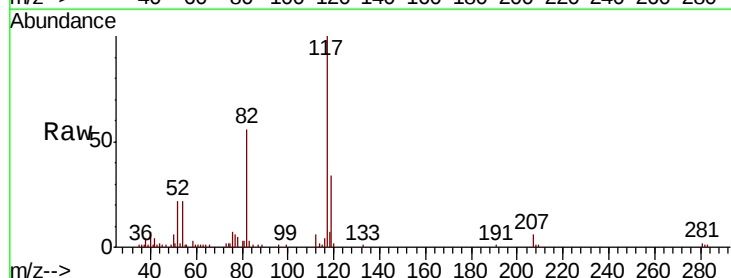
Manual Integrations
APPROVED

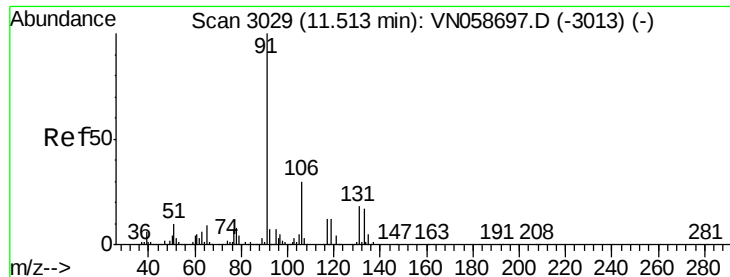
MMDadoda
10/16/2019 12:48:26 AM



#65
Chlorobenzene
Concen: 0.259 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.5	25.2	37.8





#67

Ethyl Benzene

Concen: 0.261 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 6001

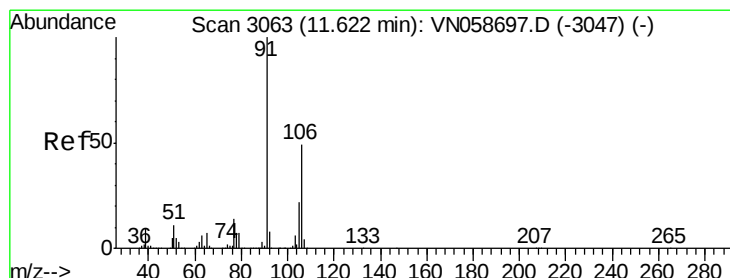
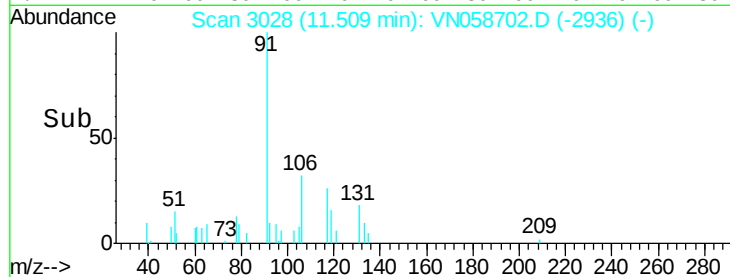
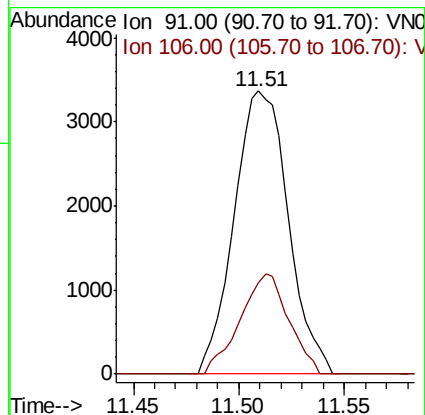
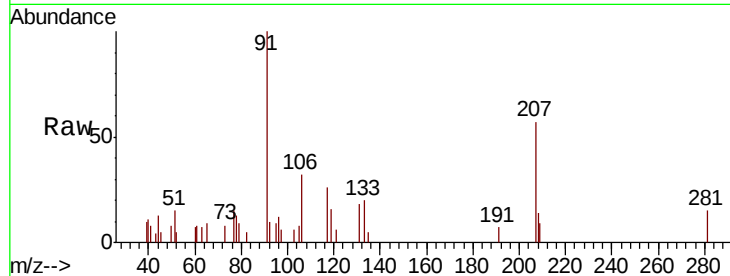
Ion Ratio Lower Upper

91 100

106 32.4 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:26 AM



#68

m/p-Xylenes

Concen: 0.518 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058702.D

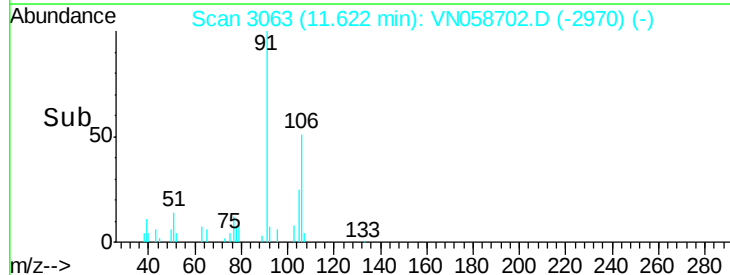
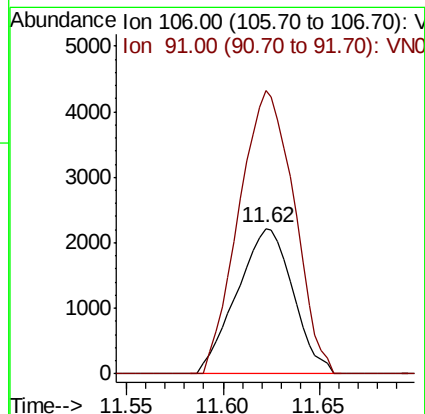
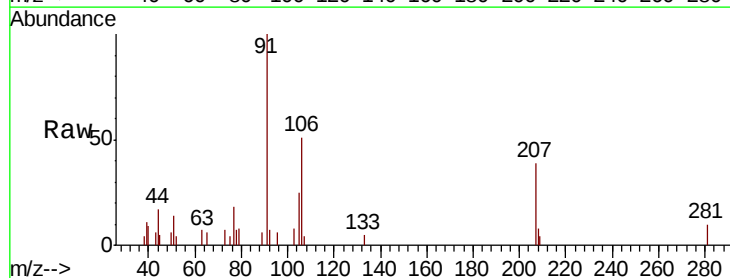
Acq: 11 Oct 2019 14:52

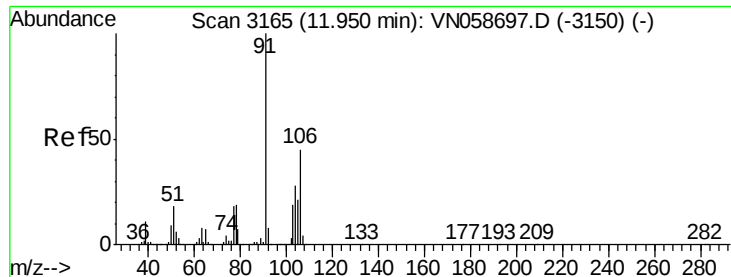
Tgt Ion: 106 Resp: 4467

Ion Ratio Lower Upper

106 100

91 191.7 165.7 248.5





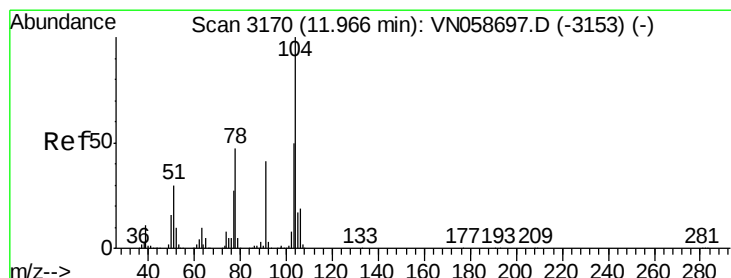
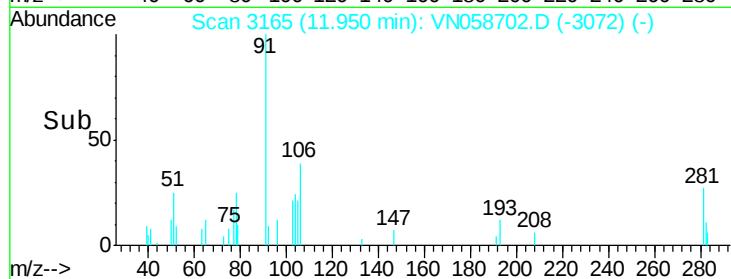
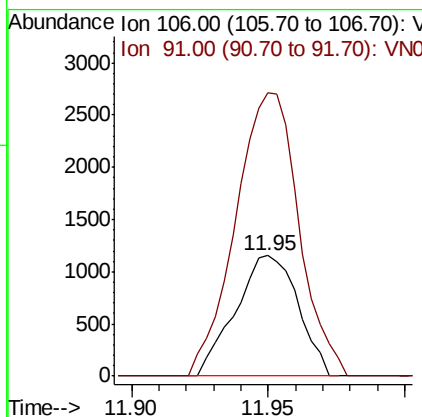
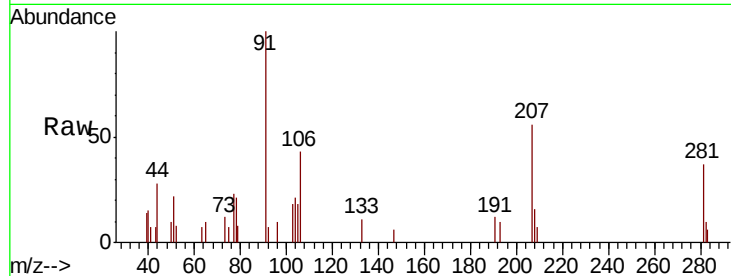
#69
o-Xylene
Concen: 0.220 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:106 Resp: 1836
Ion Ratio Lower Upper
106 100
91 237.5 110.9 332.9

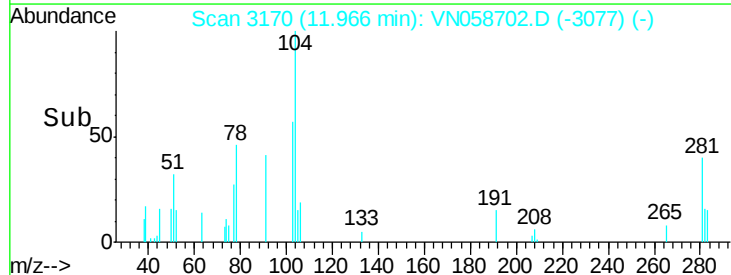
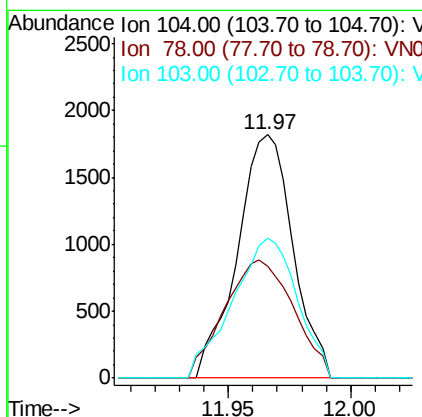
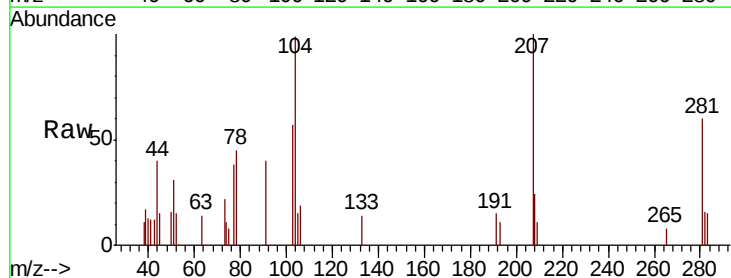
Manual Integrations
APPROVED

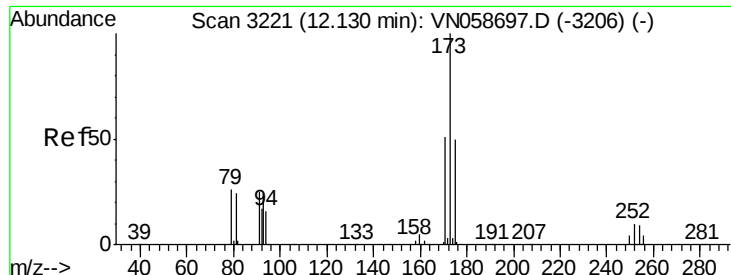
MMDadoda
10/16/2019 12:48:26 AM



#70
Styrene
Concen: 0.210 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion:104 Resp: 2875
Ion Ratio Lower Upper
104 100
78 59.8 42.2 63.2
103 66.8 43.7 65.5#





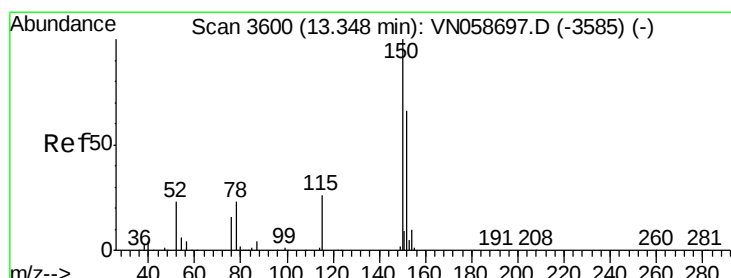
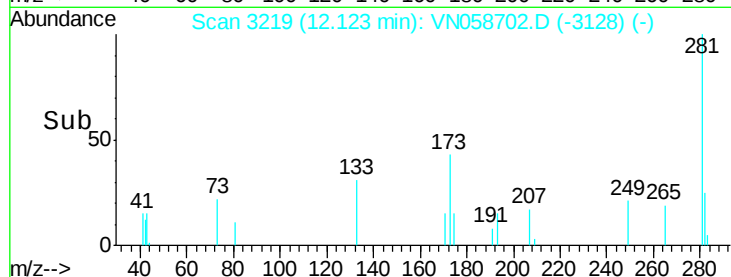
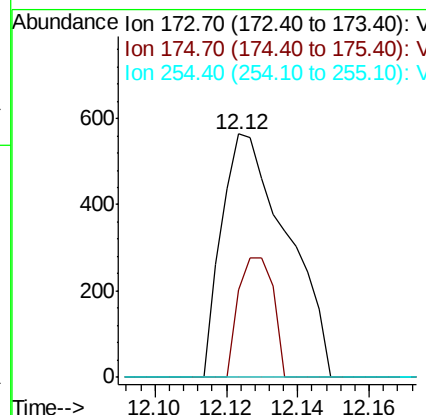
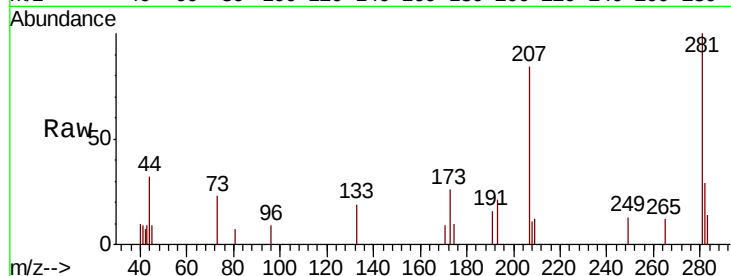
#71
Bromoform
Concen: 0.205 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.01 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

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

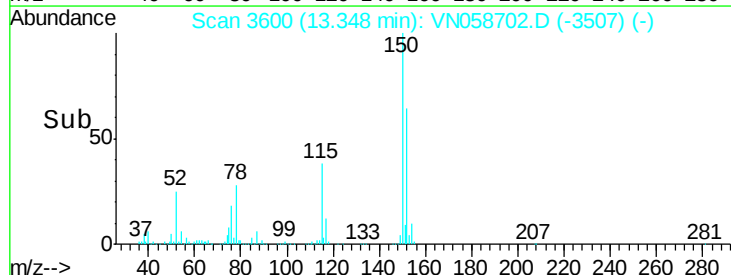
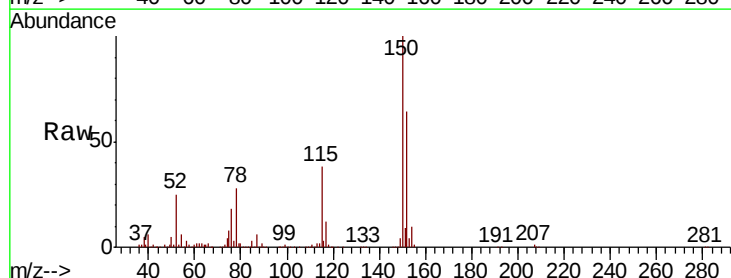
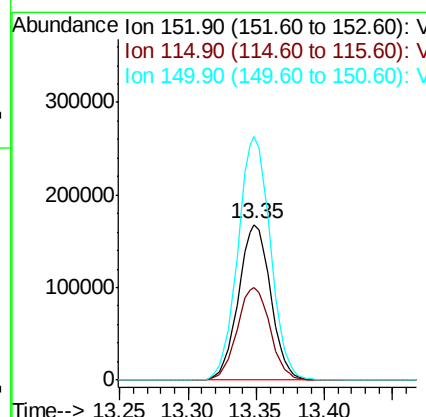
Manual Integrations
APPROVED

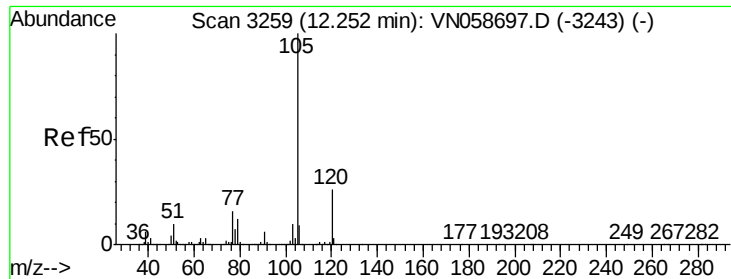
MMDadoda
10/16/2019 12:48:26 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.6	30.4	91.2
150	158.0	0.0	345.4





#73

Isopropylbenzene

Concen: 0.260 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 105 Resp: 5166

Ion Ratio Lower Upper

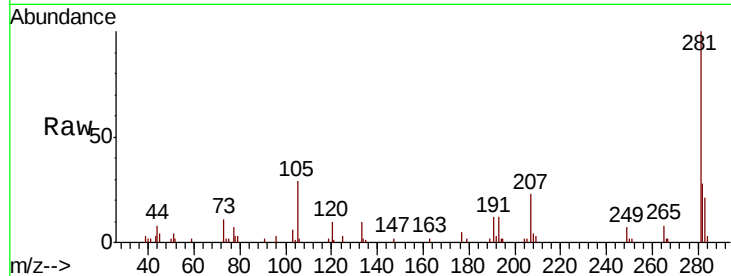
105 100

120 28.4 13.1 39.1

Manual Integrations
APPROVED

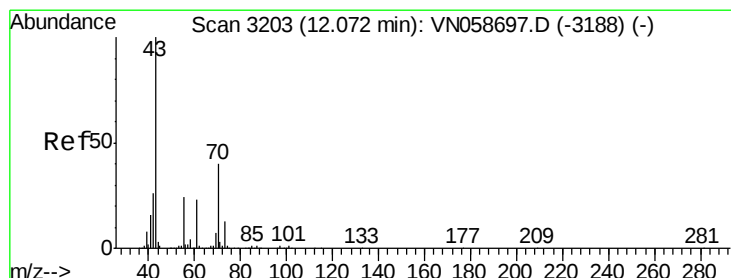
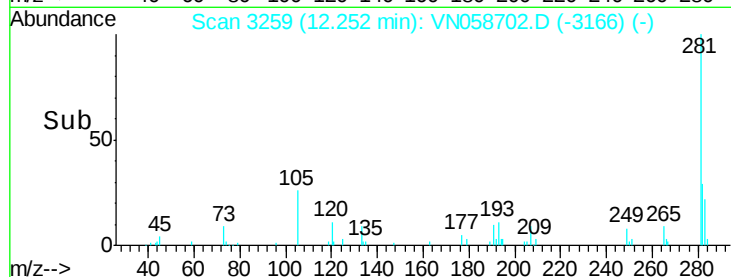
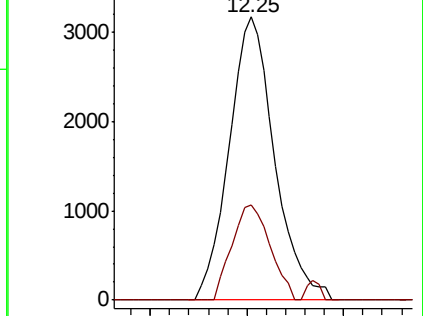
MMDadoda

10/16/2019 12:48:26 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.254 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion: 43 Resp: 2269

Ion Ratio Lower Upper

43 100

70 34.1 32.2 48.4

55 16.7 19.6 29.4#

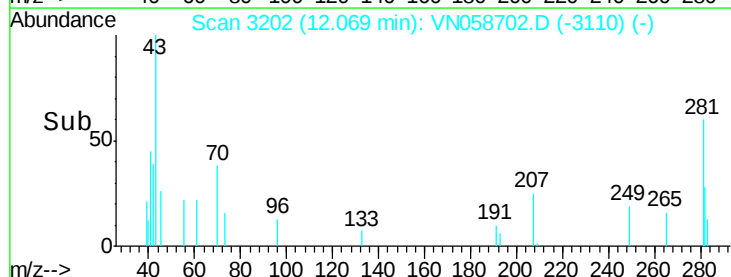
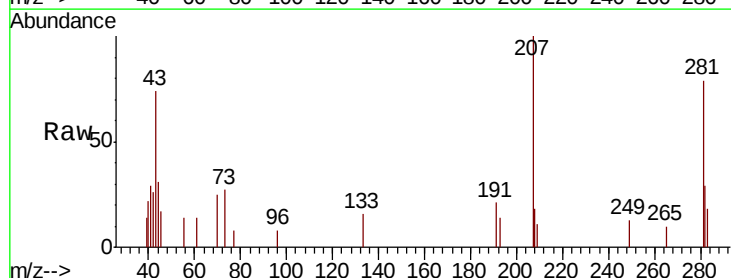
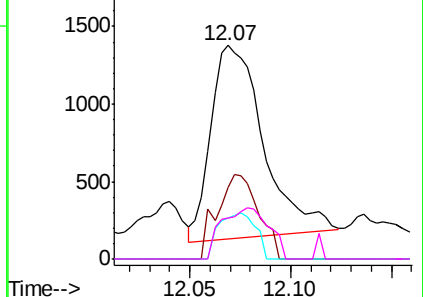
61 23.7 18.6 28.0

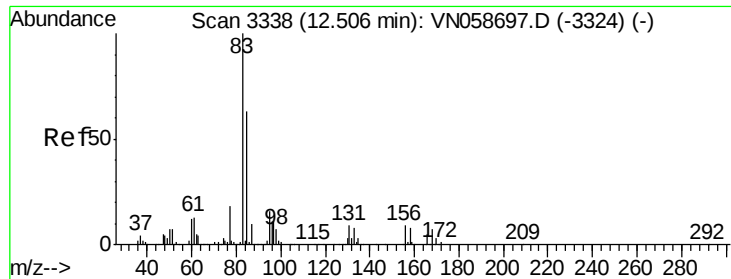
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





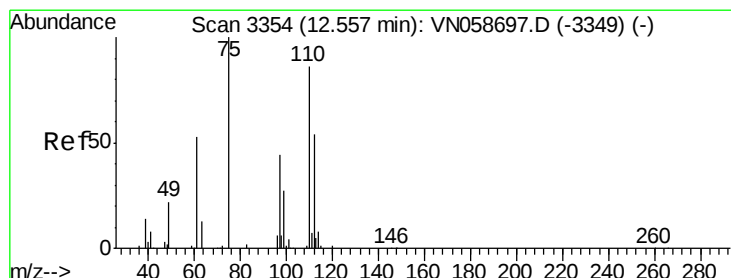
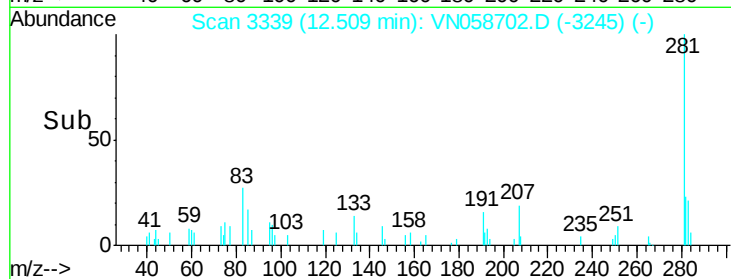
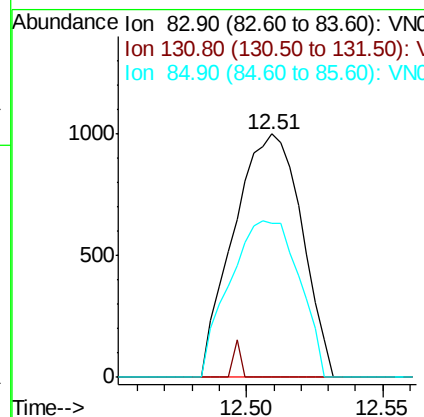
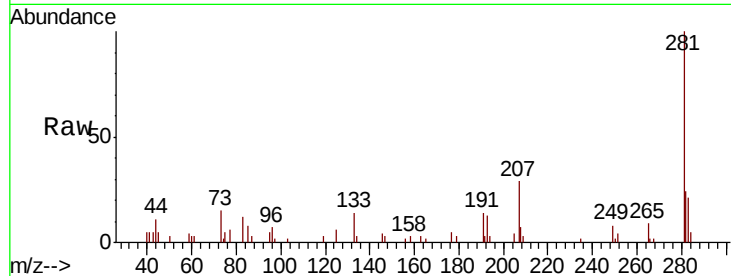
#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.263 ug/l
 RT: 12.51 min Scan# 3339
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	1.7	4.8	14.4#
85	65.5	31.9	95.5

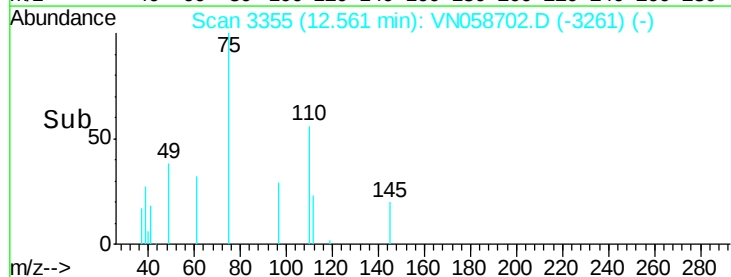
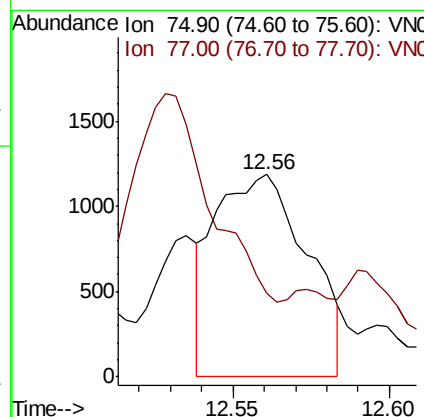
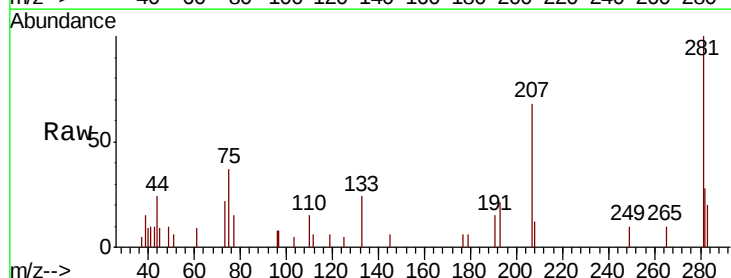
Manual Integrations
 APPROVED

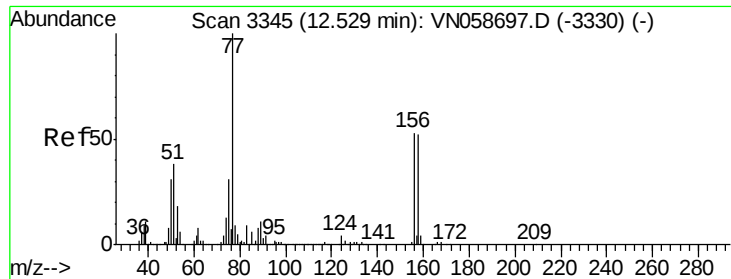
MMDadoda
 10/16/2019 12:48:26 AM



#76
 1,2,3-Trichloropropane
 Concen: 0.404 ug/l m
 RT: 12.56 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
75	100		
77	94.8	0.0	0.0#





#77

Bromobenzene

Concen: 0.291 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

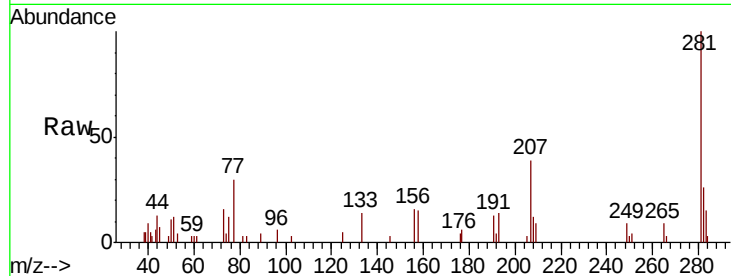
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	213.8	115.8	347.3
158	99.6	48.9	146.6

Manual Integrations
APPROVED

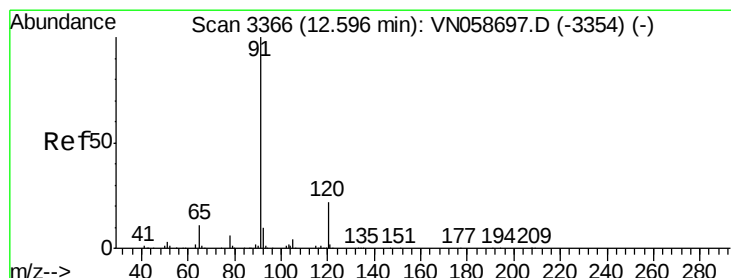
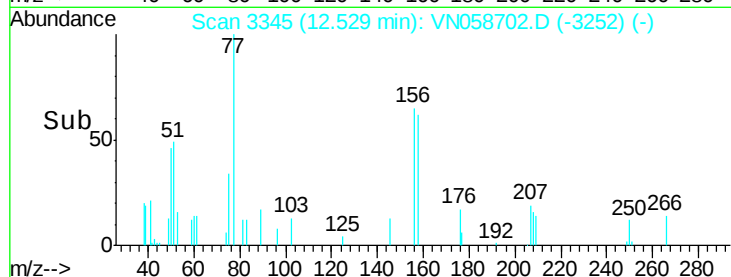
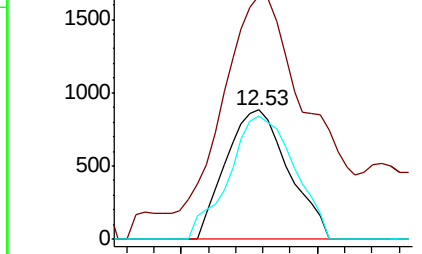
MMDadoda
10/16/2019 12:48:26 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.280 ug/l

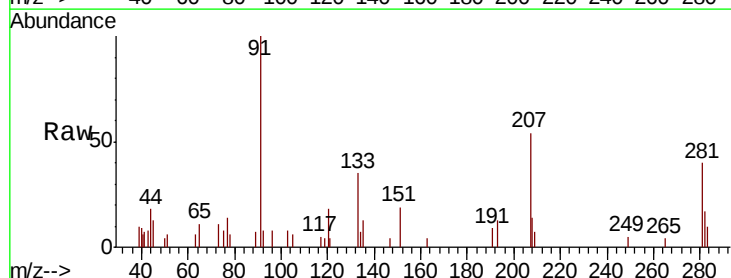
RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058702.D

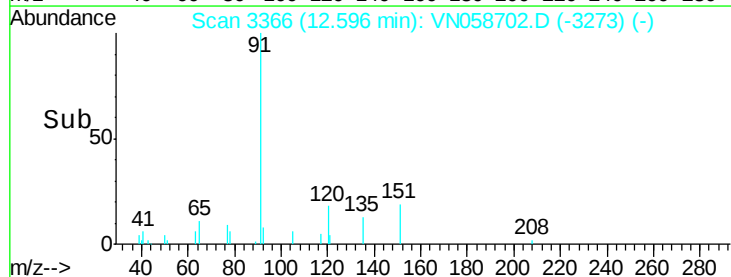
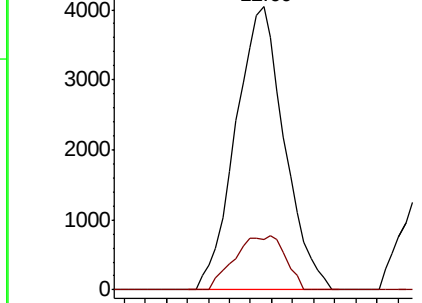
Acq: 11 Oct 2019 14:52

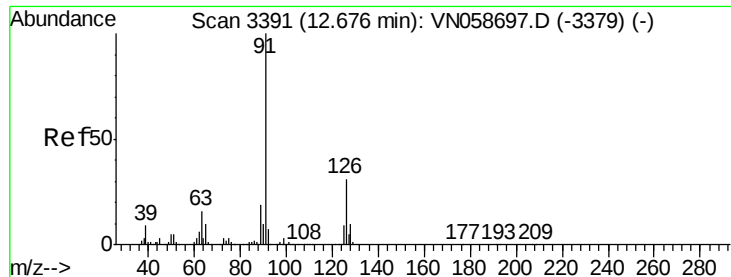
Tgt Ion	Ratio	Lower	Upper
91	100		
120	19.7	11.1	33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.279 ug/l

RT: 12.68 min Scan# 3393

Delta R.T. 0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 4020

Ion Ratio Lower Upper

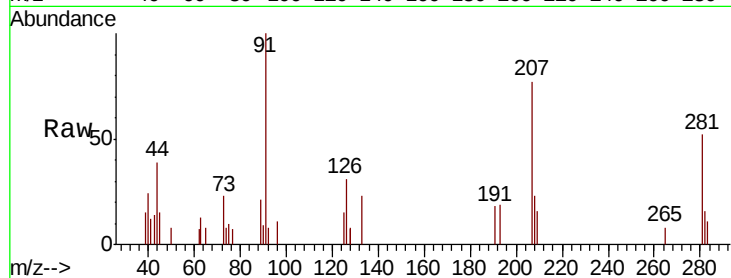
91 100

126 34.7 16.2 48.5

Manual Integrations
APPROVED

MMDadoda

10/16/2019 12:48:26 AM



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN058697.D (-3379) (-)

12.68

2500

2000

1500

1000

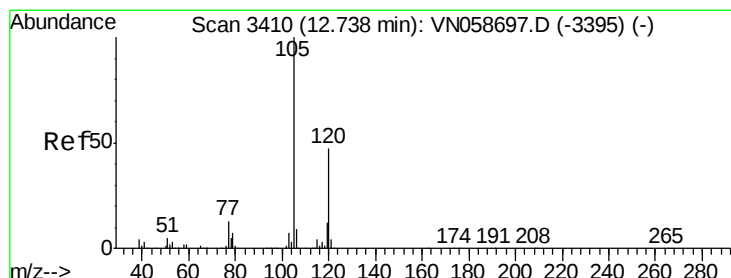
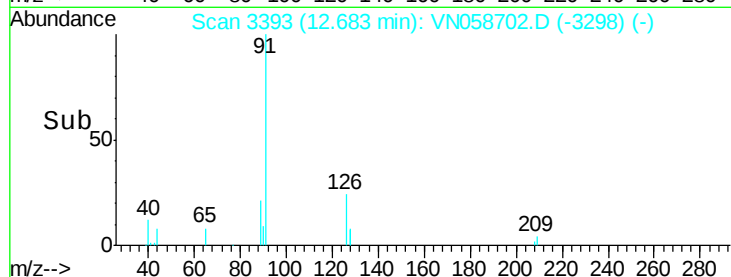
500

0

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.261 ug/l

RT: 12.74 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN058702.D

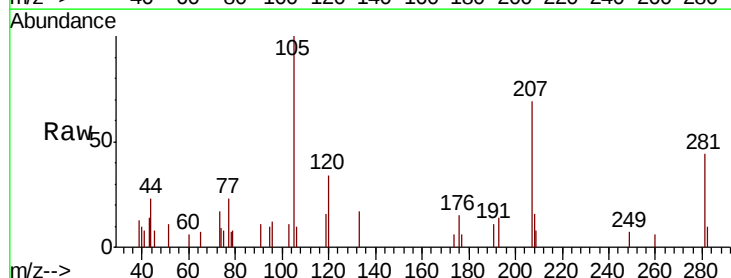
Acq: 11 Oct 2019 14:52

Tgt Ion: 105 Resp: 4435

Ion Ratio Lower Upper

105 100

120 39.7 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): VN058697.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN058697.D (-3395) (-)

12.74

3000

2500

2000

1500

1000

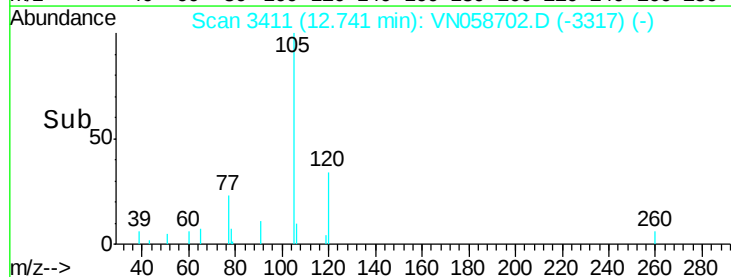
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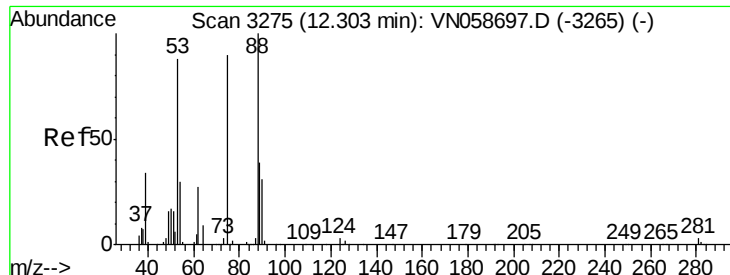
0

12.70

12.75

Time-->





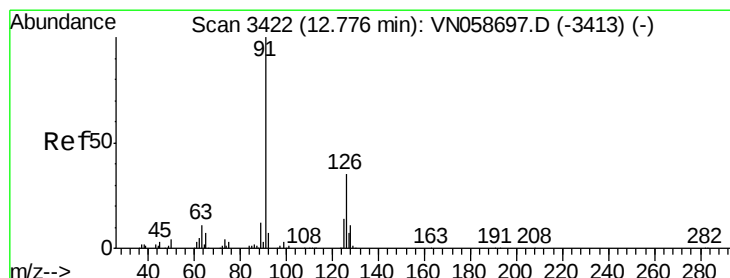
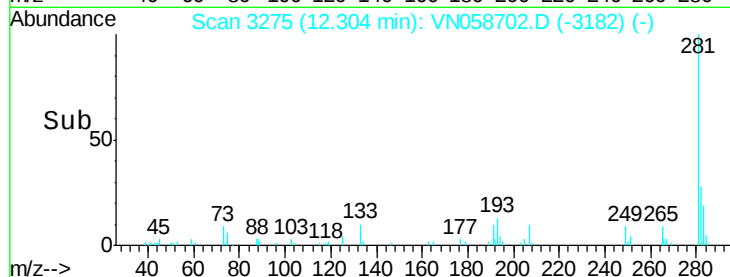
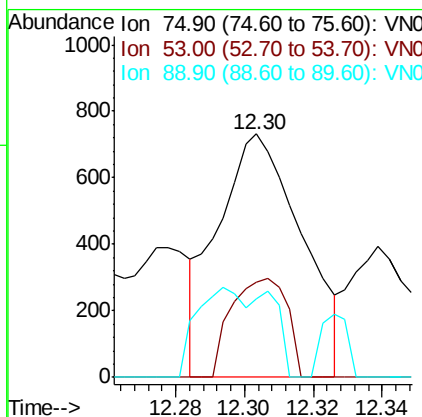
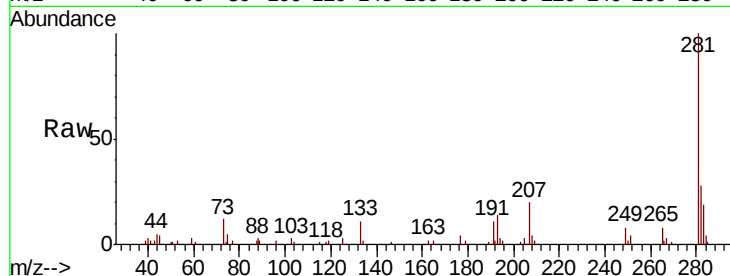
#81
trans-1,4-Dichloro-2-butene
Concen: 0.551 ug/l m
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	78.4	117.6#
89	5.8	34.9	52.3#

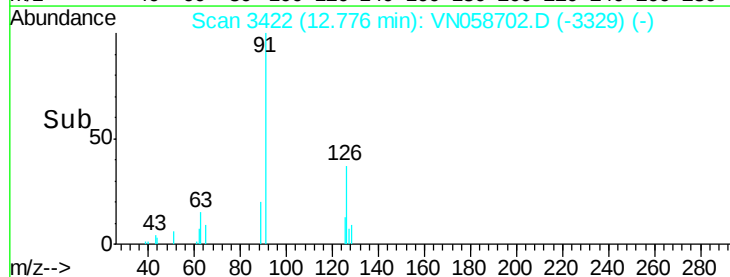
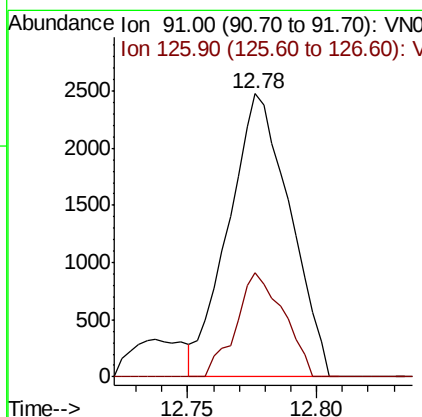
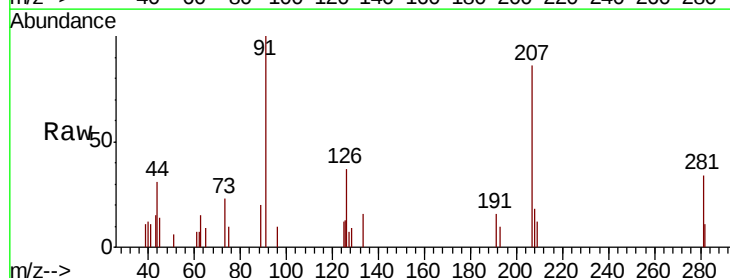
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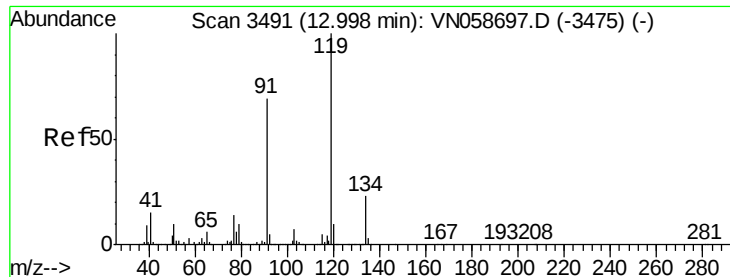
MMDadoda
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#82
4-Chlorotoluene
Concen: 0.277 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.7	15.9	47.6





#83

tert-Butylbenzene

Concen: 0.261 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

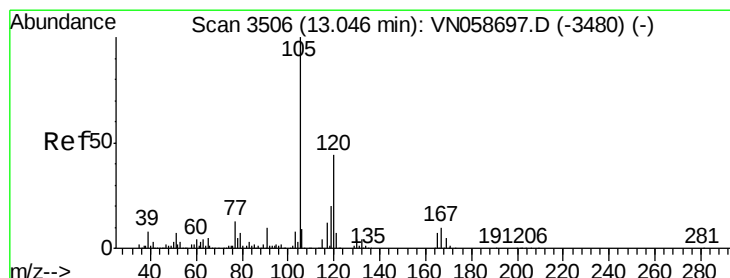
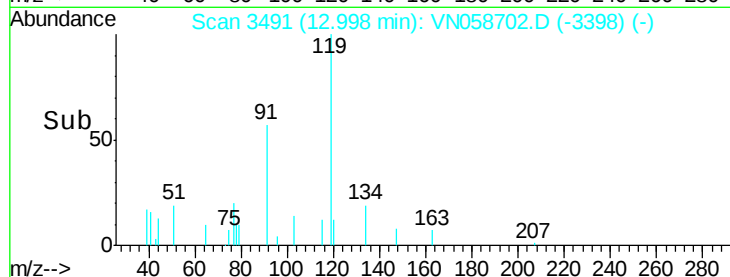
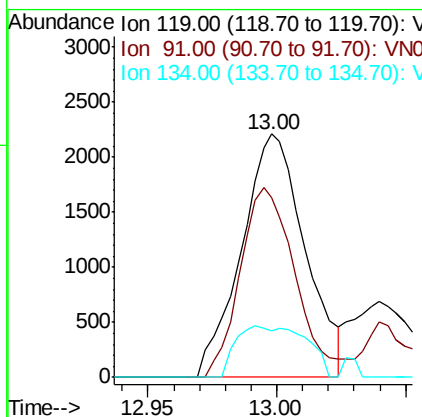
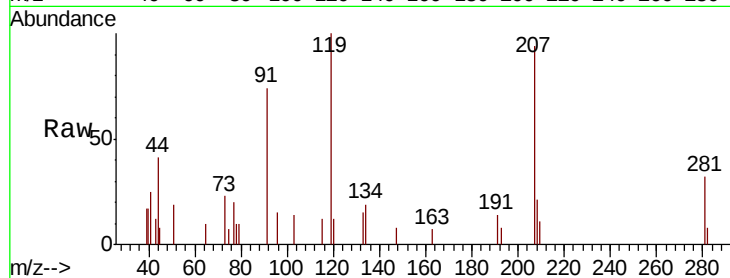
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	119	Resp:	3800
Ion	Ratio	Lower	Upper
119	100		
91	67.1	33.8	101.3
134	23.2	12.6	37.6

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#84

1,2,4-Trimethylbenzene

Concen: 0.257 ug/l

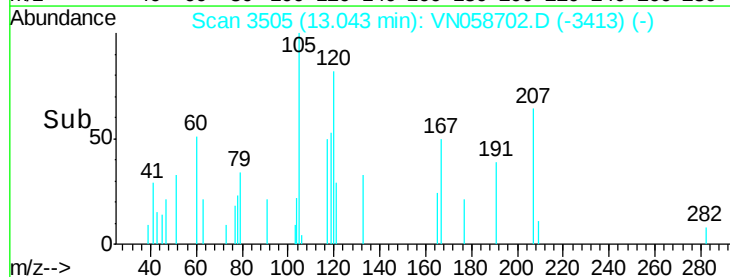
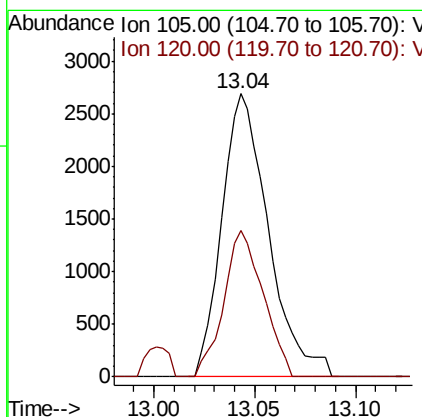
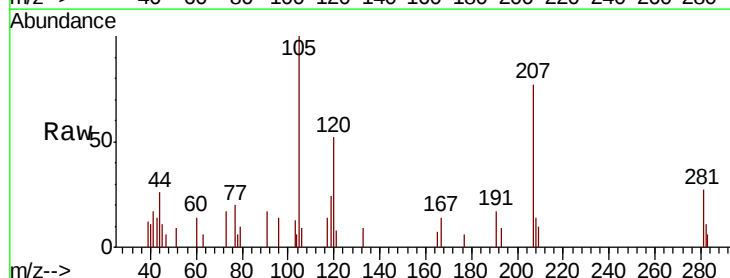
RT: 13.04 min Scan# 3505

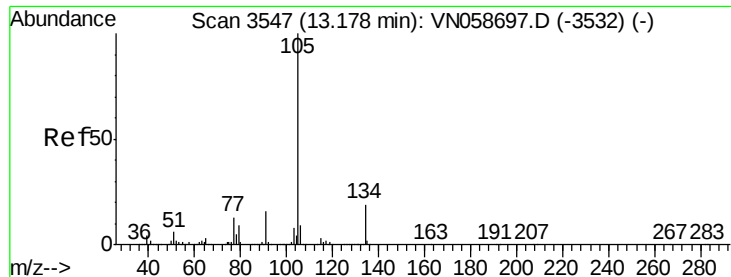
Delta R.T. -0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	105	Resp:	4331
Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.7





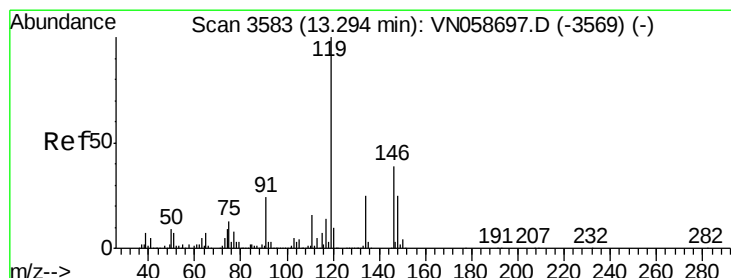
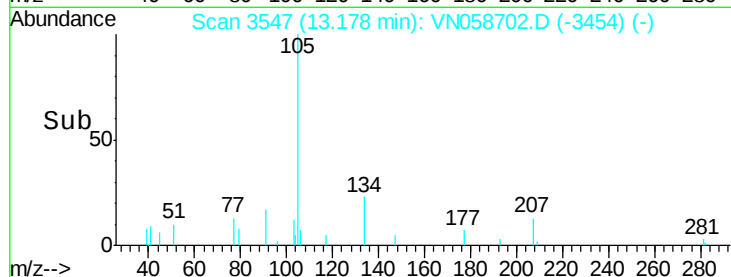
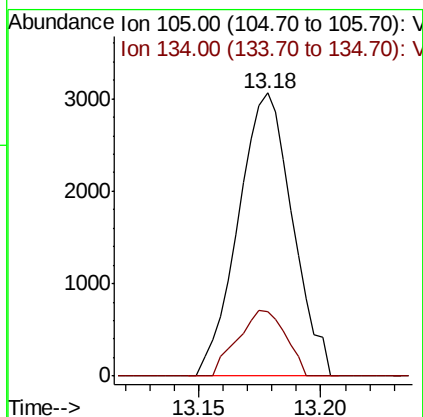
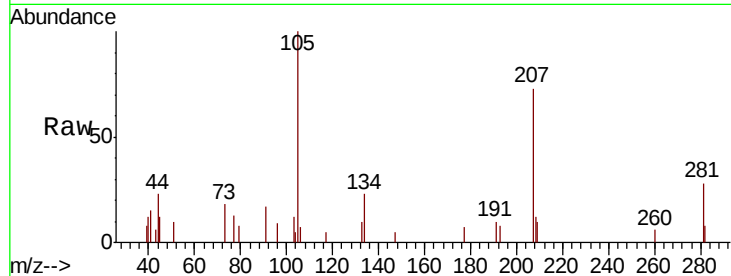
#85
 sec-Butylbenzene
 Concen: 0.246 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.5	9.7	29.1

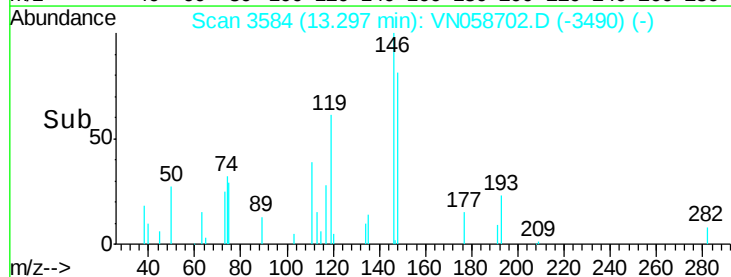
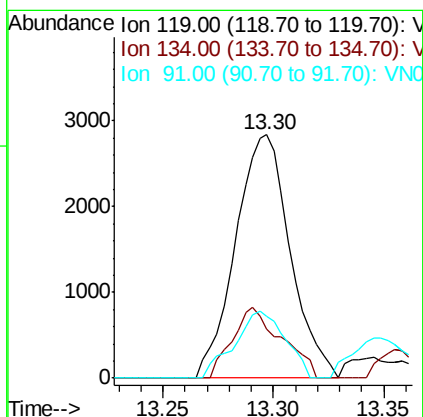
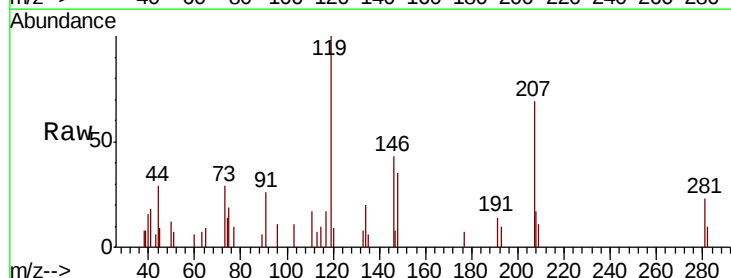
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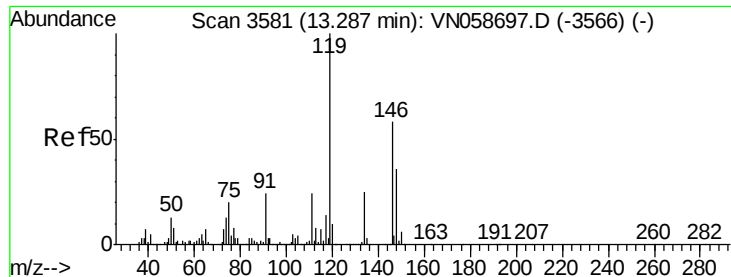
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 0.280 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.7	38.1
91	25.5	11.9	35.5





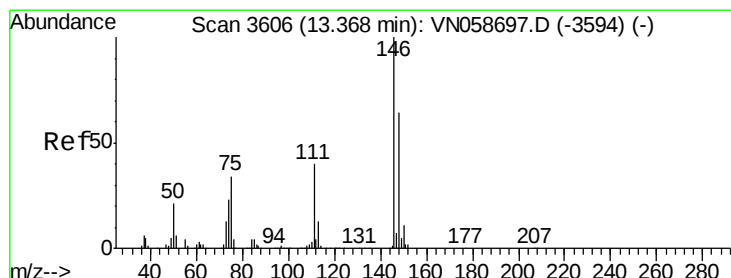
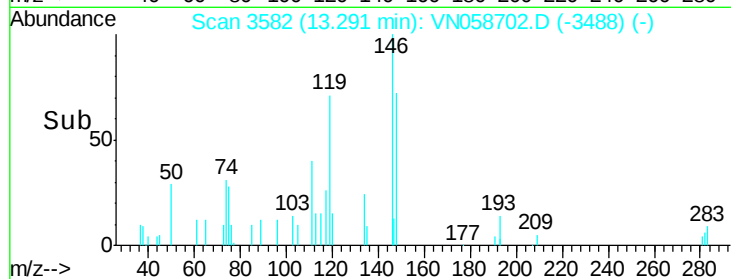
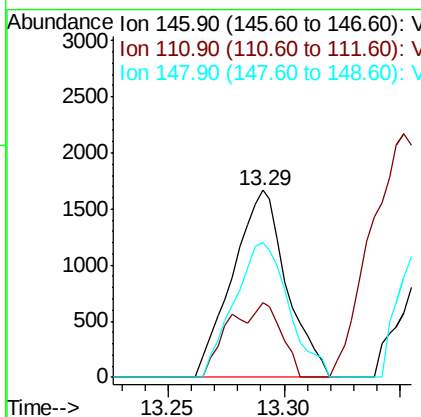
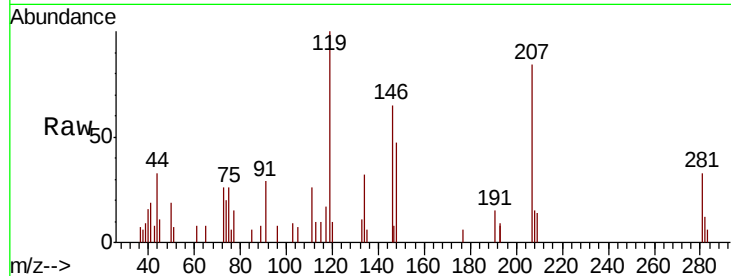
#87
 1,3-Dichlorobenzene
 Concen: 0.302 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	20.7	20.5	61.6
148	72.6	31.3	93.9

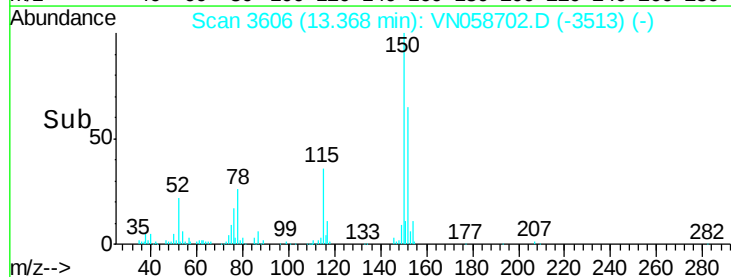
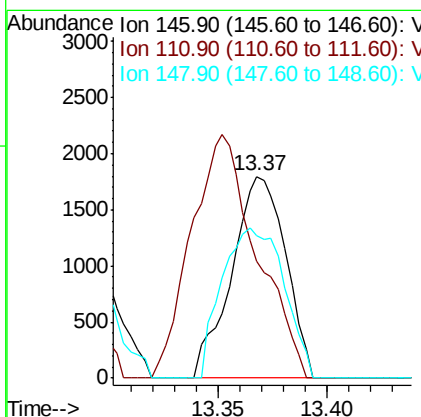
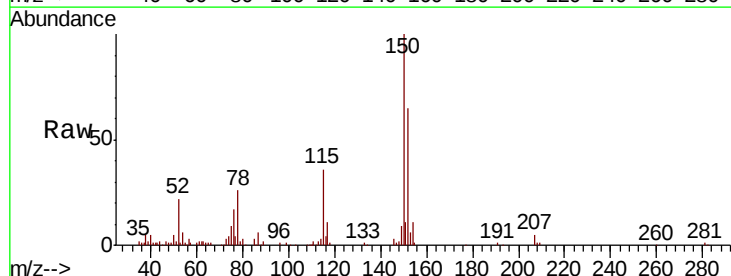
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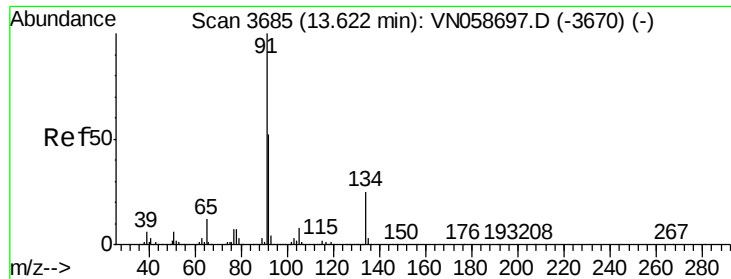
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#88
 1,4-Dichlorobenzene
 Concen: 0.341 ug/l m
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	18.1	20.1	60.2#
148	63.3	31.9	95.7





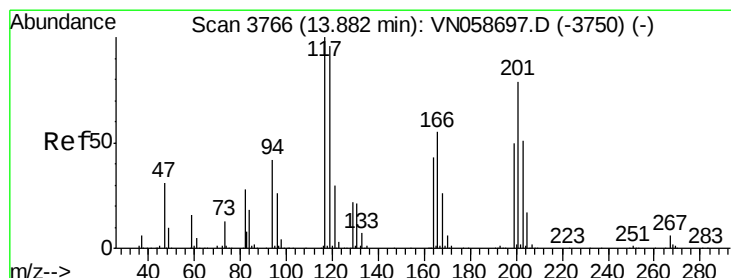
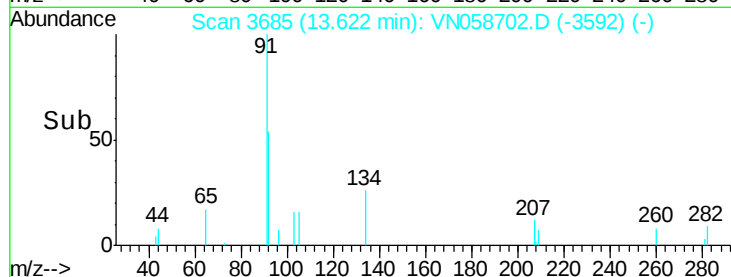
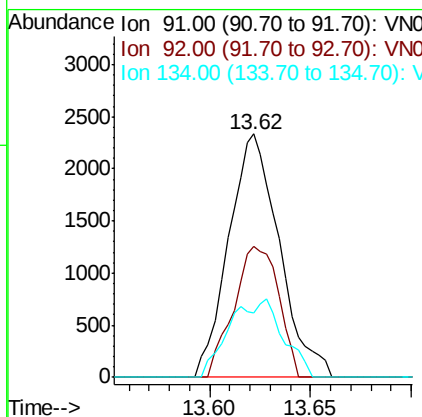
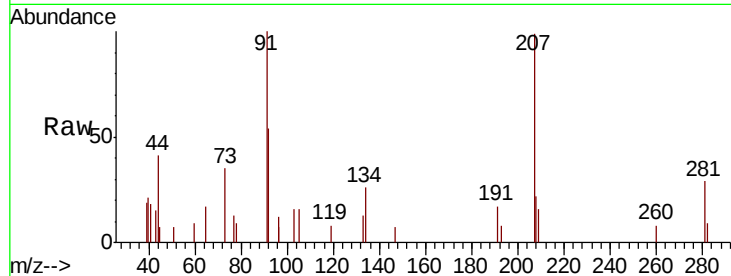
#89
n-Butylbenzene
Concen: 0.254 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 4087
Ion Ratio Lower Upper
91 100
92 47.9 26.0 78.0
134 17.6 12.2 36.6

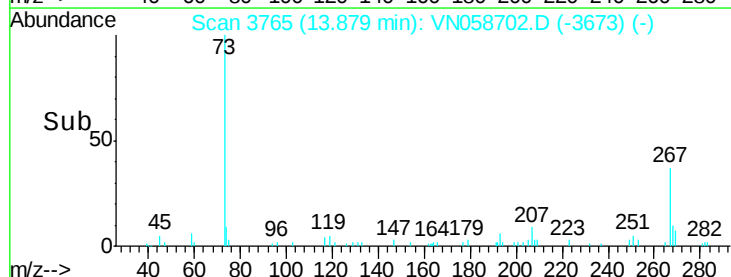
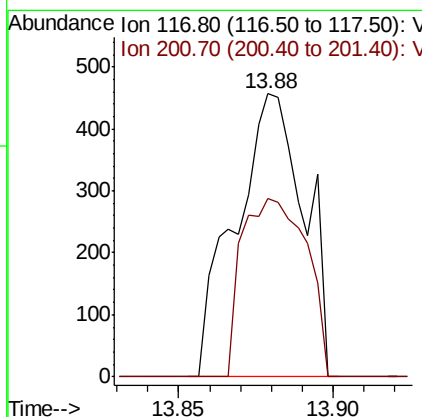
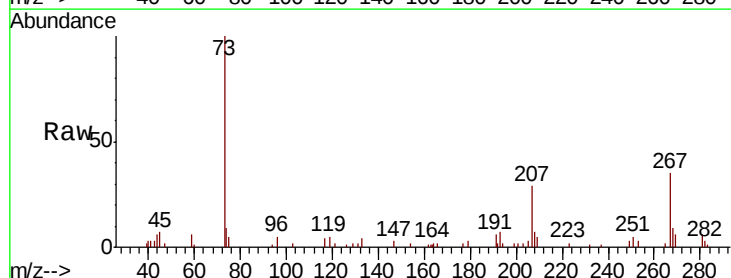
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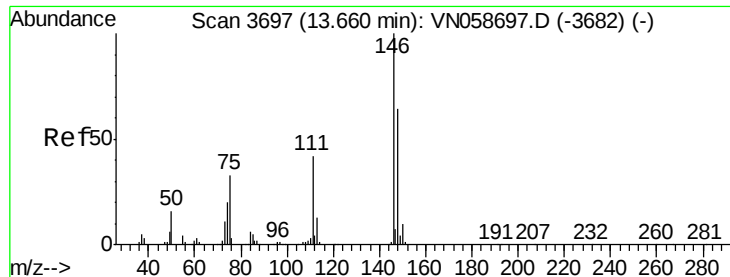
MMDadoda
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#90
Hexachloroethane
Concen: 0.227 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion: 117 Resp: 709
Ion Ratio Lower Upper
117 100
201 59.0 39.6 118.7





#91

1,2-Dichlorobenzene

Concen: 0.243 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Instrument :

MSVOA_N

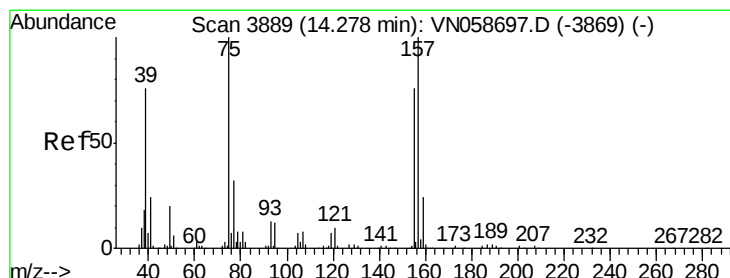
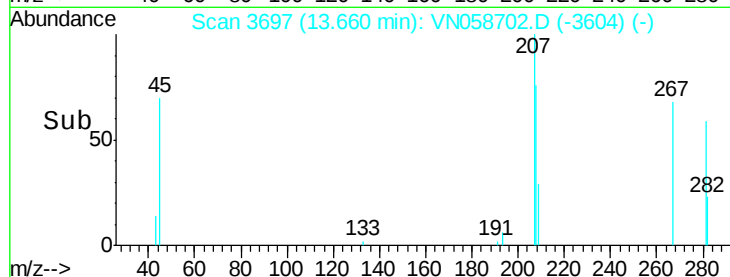
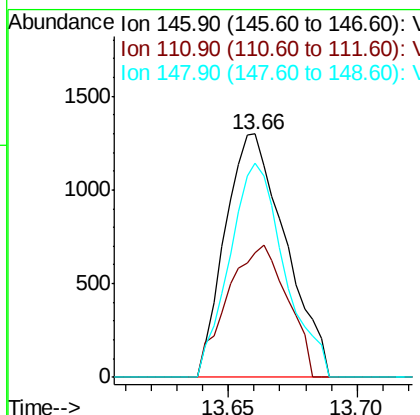
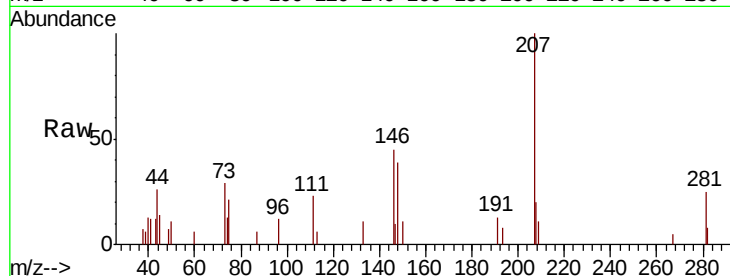
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	146	Resp:	2115
Ion Ratio	Lower	Upper	
146	100		
111	53.9	21.1	63.4
148	80.4	31.8	95.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 0.600 ug/l m

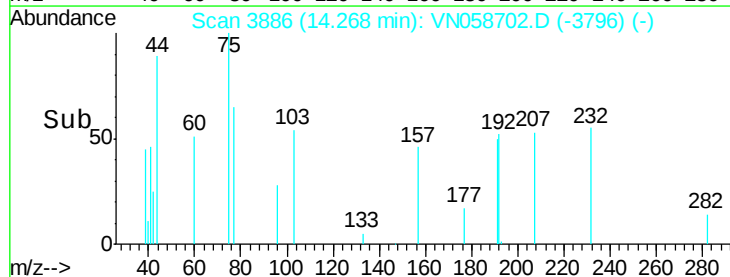
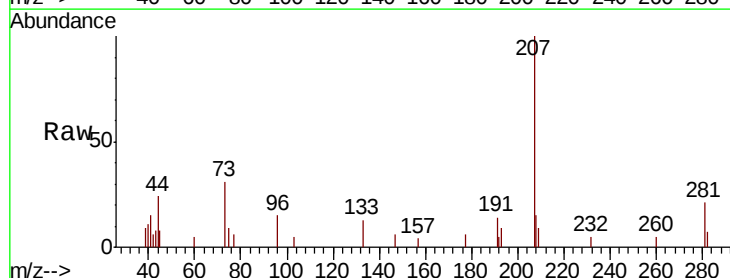
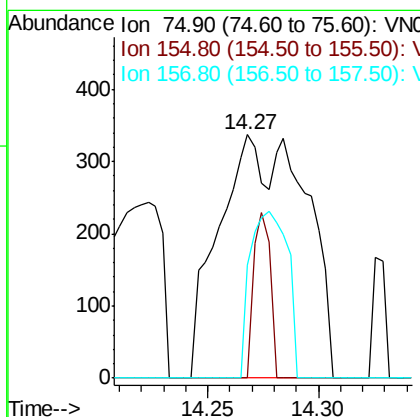
RT: 14.27 min Scan# 3886

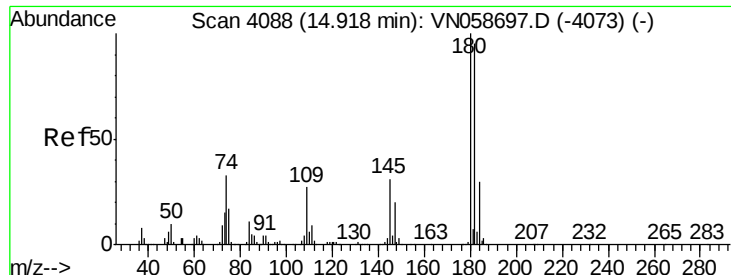
Delta R.T. -0.01 min

Lab File: VN058702.D

Acq: 11 Oct 2019 14:52

Tgt Ion:	75	Resp:	918
Ion Ratio	Lower	Upper	
75	100		
155	12.7	37.9	113.6#
157	29.4	49.4	148.2#





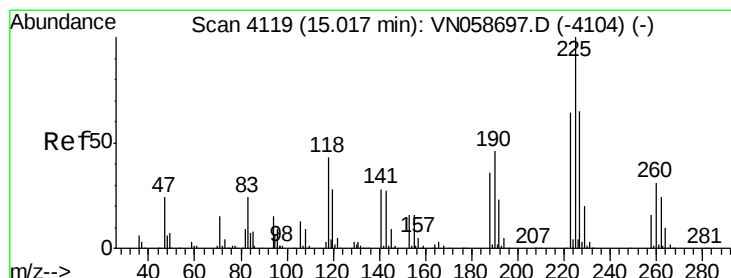
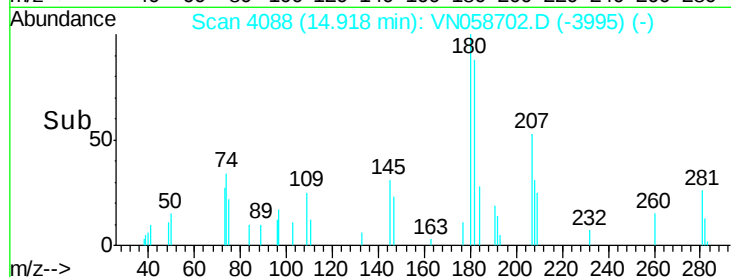
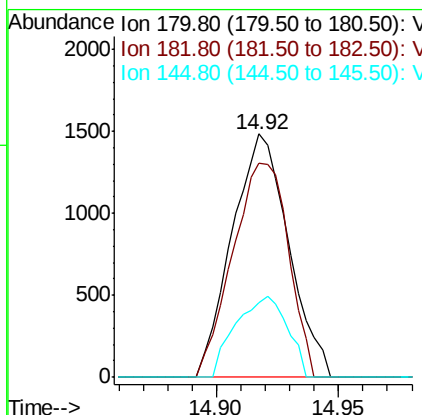
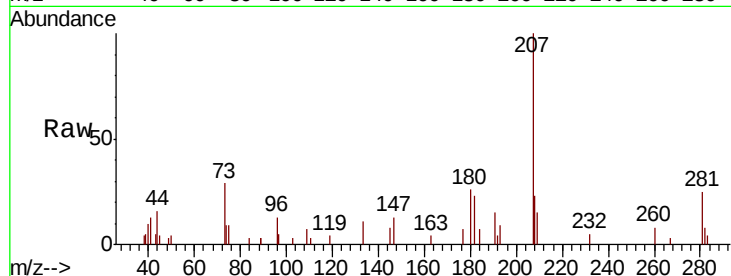
#93
 1,2,4-Trichlorobenzene
 Concen: 0.450 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.0	47.4	142.2
145	30.4	15.4	46.2

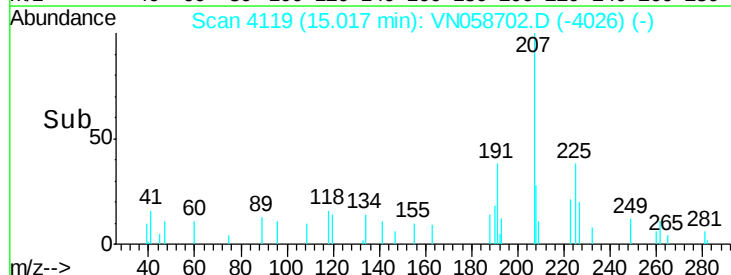
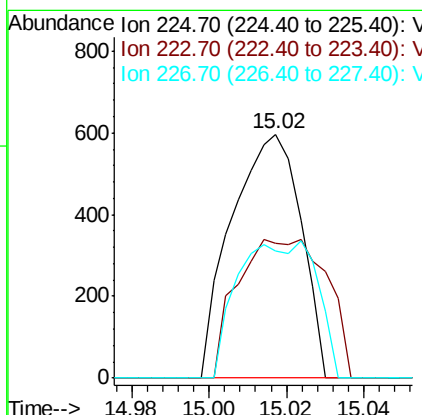
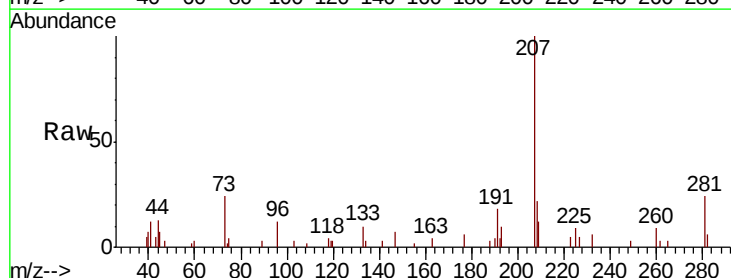
Manual Integrations
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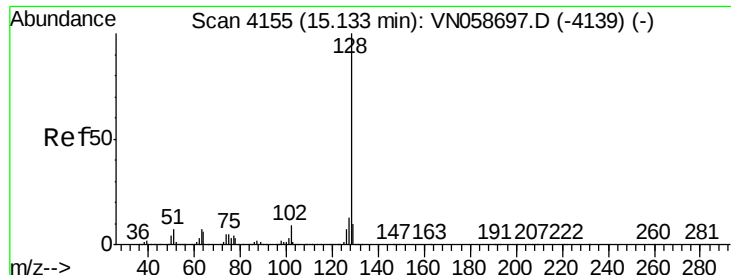
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#94
 Hexachlorobutadiene
 Concen: 0.266 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058702.D
 Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	72.5	32.3	96.8
227	63.8	32.4	97.0





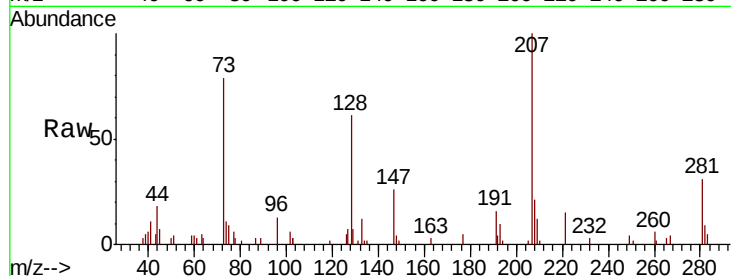
#95
Naphthalene
Concen: 0.490 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.2	15.4
129	11.3	8.5	12.7

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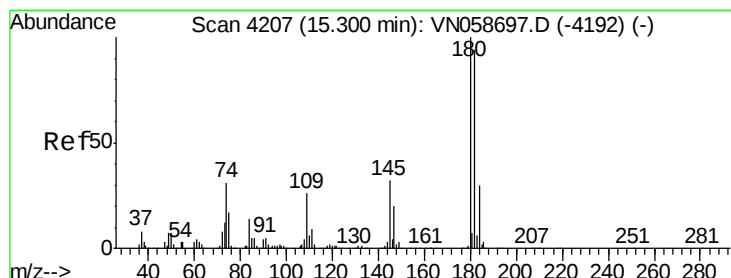
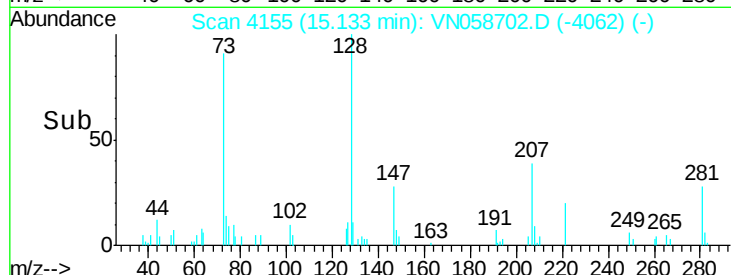
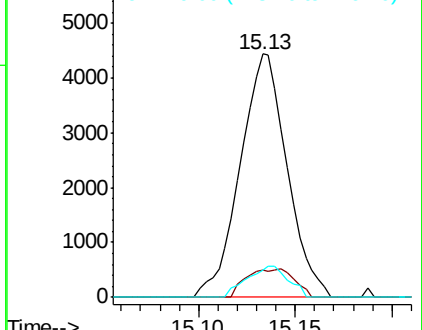


Abundance

Ion 128.00 (127.70 to 128.70): V

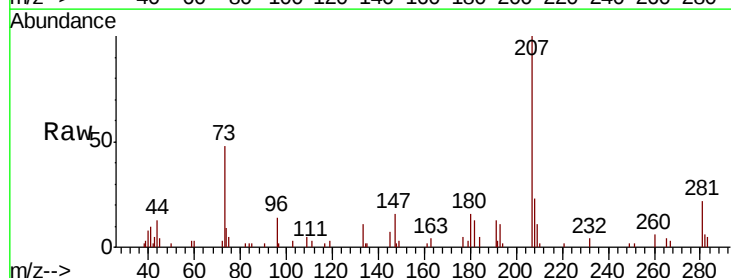
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.469 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058702.D
Acq: 11 Oct 2019 14:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.5	47.3	142.0
145	39.7	16.2	48.6



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

