

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011320\
 Data File : VN059688.D
 Acq On : 13 Jan 2020 14:06
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/14/2020 10:59:41 AM

Quant Time: Jan 14 08:46:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:36:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	294286	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	259304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	117235	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	10975	3.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	7.94%	
35) Dibromofluoromethane	7.57	113	8967	4.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.74%	
50) Toluene-d8	10.08	98	34886	4.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.58%	
62) 4-Bromofluorobenzene	12.40	95	12534	4.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.42%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	8050	3.275	ug/l 99
3) Chloromethane	2.04	50	10402	2.667	ug/l 99
4) Vinyl Chloride	2.17	62	11042	2.986	ug/l 95
5) Bromomethane	2.54	94	7561	3.517	ug/l 93
6) Chloroethane	2.68	64	5784	2.783	ug/l 95
7) Trichlorofluoromethane	3.00	101	15496	3.819	ug/l 97
8) Diethyl Ether	3.38	74	5567	4.391	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	3.73	101	8811	4.309	ug/l 95
10) Methyl Iodide	3.93	142	12550	4.636	ug/l 93
11) Tert butyl alcohol	4.73	59	9074	17.884	ug/l # 91
12) 1,1-Dichloroethene	3.72	96	9192	4.608	ug/l 83
13) Acrolein	3.58	56	7123	19.708	ug/l 93
14) Allyl chloride	4.29	41	12650	3.089	ug/l # 84
15) Acrylonitrile	4.95	53	20565	16.756	ug/l 97
16) Acetone	3.78	43	20368	12.396	ug/l 96
17) Carbon Disulfide	4.03	76	26027	3.800	ug/l 97
18) Methyl Acetate	4.30	43	11463	3.329	ug/l 99
19) Methyl tert-butyl Ether	5.01	73	29277	4.157	ug/l 95
20) Methylene Chloride	4.52	84	11479	4.837	ug/l # 85
21) trans-1,2-Dichloroethene	5.01	96	9755	4.386	ug/l 86
22) Diisopropyl ether	5.91	45	26819	3.552	ug/l # 81
23) Vinyl Acetate	5.86	43	108945	18.388	ug/l # 94
24) 1,1-Dichloroethane	5.82	63	16868	3.944	ug/l 97
25) 2-Butanone	6.81	43	30740	15.645	ug/l 96
26) 2,2-Dichloropropane	6.79	77	16349	4.206	ug/l 96
27) cis-1,2-Dichloroethene	6.80	96	10860	4.407	ug/l 89
28) Bromochloromethane	7.17	49	6619	4.513	ug/l # 76
29) Tetrahydrofuran	7.18	42	18484	15.440	ug/l 89
30) Chloroform	7.35	83	17777	4.223	ug/l 96
31) Cyclohexane	7.63	56	18610	4.605	ug/l # 77
32) 1,1,1-Trichloroethane	7.55	97	16404	4.322	ug/l 95
36) 1,1-Dichloropropene	7.77	75	13030	4.246	ug/l 95
37) Ethyl Acetate	6.90	43	10820	3.033	ug/l # 94
38) Carbon Tetrachloride	7.75	117	14307	4.493	ug/l 97

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 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	16022	4.603	ug/l	96
40) Benzene	8.02	78	39731	4.430	ug/l	100
41) Methacrylonitrile	7.15	41	5747m	3.904	ug/l	
42) 1,2-Dichloroethane	8.10	62	13340	3.884	ug/l	96
43) Isopropyl Acetate	8.14	43	20195	3.642	ug/l	96
44) Trichloroethene	8.82	130	10642	4.530	ug/l	94
45) 1,2-Dichloropropane	9.10	63	9917	4.095	ug/l	99
46) Dibromomethane	9.19	93	7039	4.436	ug/l	92
47) Bromodichloromethane	9.38	83	13394	4.234	ug/l	99
48) Methyl methacrylate	9.18	41	8904	3.539	ug/l	91
49) 1,4-Dioxane	9.18	88	3311	91.828	ug/l #	90
51) 4-Methyl-2-Pentanone	9.97	43	61580	18.624	ug/l	98
52) Toluene	10.14	92	24617	4.467	ug/l	98
53) t-1,3-Dichloropropene	10.37	75	15066	4.118	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	15887	4.131	ug/l	95
55) 1,1,2-Trichloroethane	10.55	97	9877	4.568	ug/l	96
56) Ethyl methacrylate	10.42	69	14750	4.595	ug/l	93
57) 1,3-Dichloropropane	10.70	76	15525	4.123	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.68	63	19214	18.819	ug/l	93
59) 2-Hexanone	10.74	43	43603	16.732	ug/l	93
60) Dibromochloromethane	10.89	129	11171	4.733	ug/l	100
61) 1,2-Dibromoethane	11.00	107	9855	4.297	ug/l	96
64) Tetrachloroethene	10.62	164	11634	4.813	ug/l	94
65) Chlorobenzene	11.43	112	26354	4.697	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	10222	4.796	ug/l	96
67) Ethyl Benzene	11.50	91	47754	4.715	ug/l	96
68) m/p-Xylenes	11.61	106	35984	9.622	ug/l	96
69) o-Xylene	11.94	106	17519	4.923	ug/l	98
70) Styrene	11.96	104	29234	5.113	ug/l	96
71) Bromoform	12.12	173	7902	4.933	ug/l #	99
73) Isopropylbenzene	12.24	105	46715	5.076	ug/l	100
74) N-amyl acetate	12.06	43	17413	4.125	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	13625	4.667	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	10021m	3.453	ug/l	
77) Bromobenzene	12.52	156	11715	5.176	ug/l	80
78) n-propylbenzene	12.59	91	51042	4.692	ug/l	95
79) 2-Chlorotoluene	12.67	91	31742	4.825	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	39288	5.045	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	4513	3.841	ug/l	96
82) 4-Chlorotoluene	12.77	91	30828	4.577	ug/l	96
83) tert-Butylbenzene	12.99	119	34056	5.164	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	38080	4.917	ug/l	97
85) sec-Butylbenzene	13.17	105	43854	4.999	ug/l	98
86) p-Isopropyltoluene	13.28	119	40220	5.062	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	19436	4.670	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	20195	4.813	ug/l	99
89) n-Butylbenzene	13.61	91	33057	4.437	ug/l	96
90) Hexachloroethane	13.87	117	7451	4.961	ug/l	88
91) 1,2-Dichlorobenzene	13.65	146	19862	4.839	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.26	75	3002	3.492	ug/l	87

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

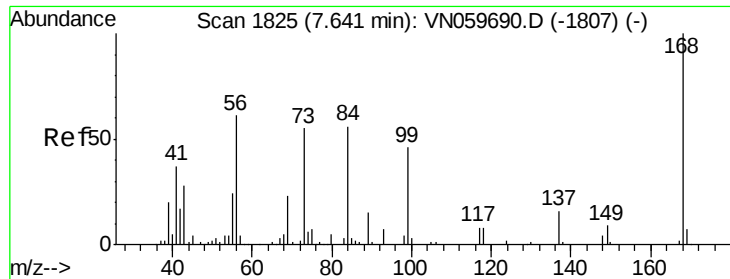
Manual Integrations
APPROVED

MMDadoda
1/14/2020 10:59:41 AM

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Quant Title : SW846 8260
QLast Update : Tue Jan 14 08:36:17 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	11026	4.160	ug/l	99
94) Hexachlorobutadiene	15.01	225	6709	4.727	ug/l	98
95) Naphthalene	15.13	128	29619	3.744	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	10413	3.885	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 190194

Ion Ratio Lower Upper

168 100

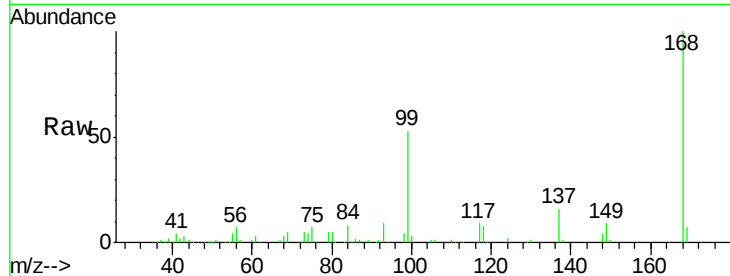
99 52.8 48.2 72.4

Manual Integrations

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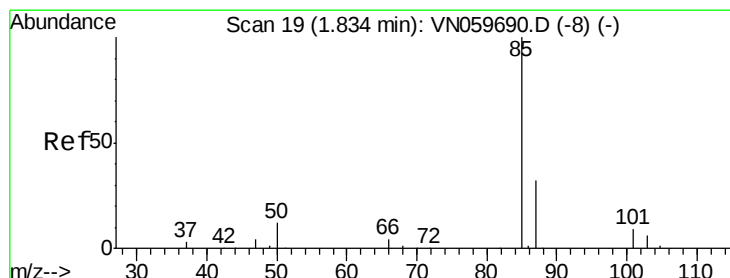
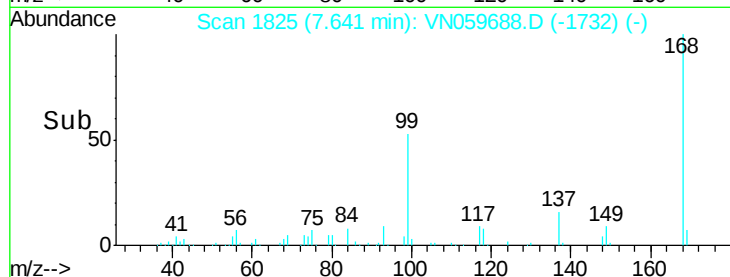
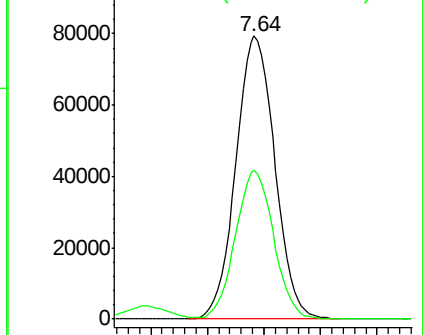
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1/14/2020 10:59:41 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 3.275 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN059688.D

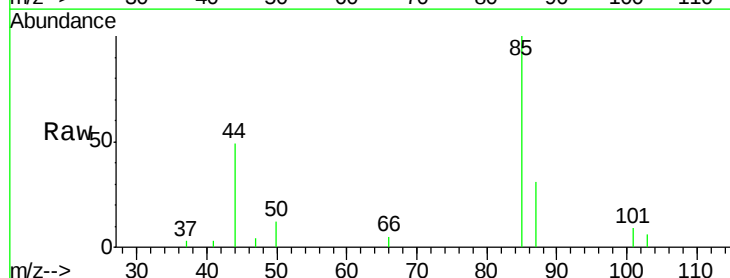
Acq: 13 Jan 2020 14:06

Tgt Ion: 85 Resp: 8050

Ion Ratio Lower Upper

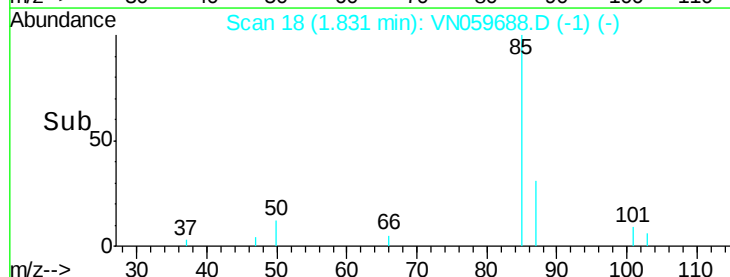
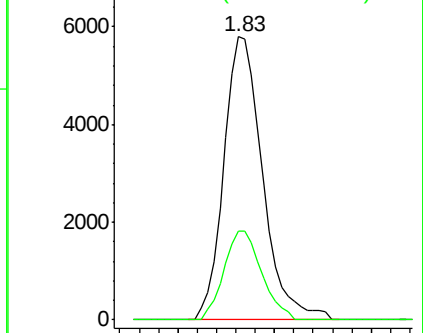
85 100

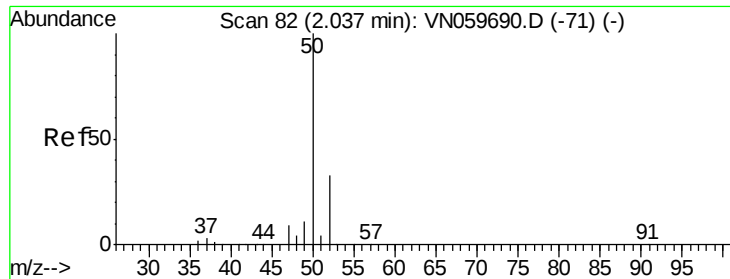
87 31.2 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 2.667 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 10402

Ion Ratio Lower Upper

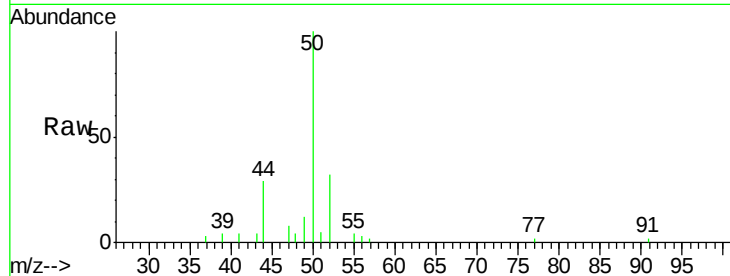
50 100

52 31.8 25.9 38.9

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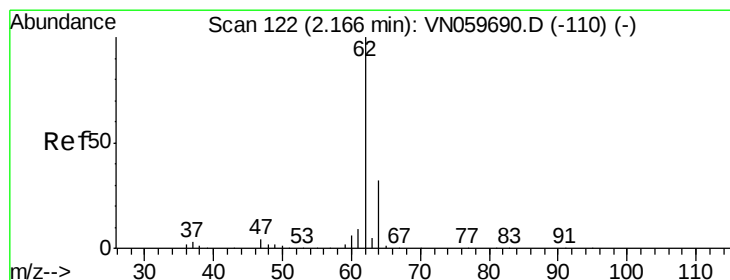
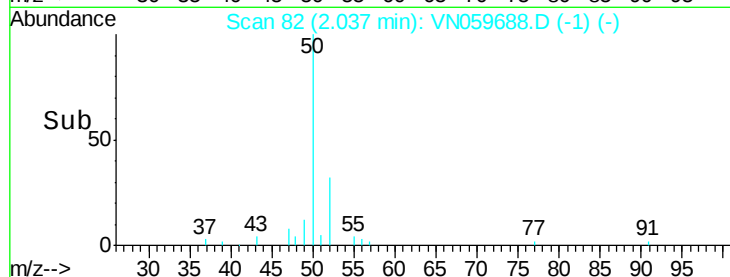
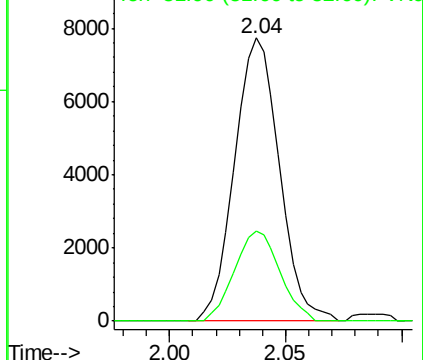
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 2.986 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN059688.D

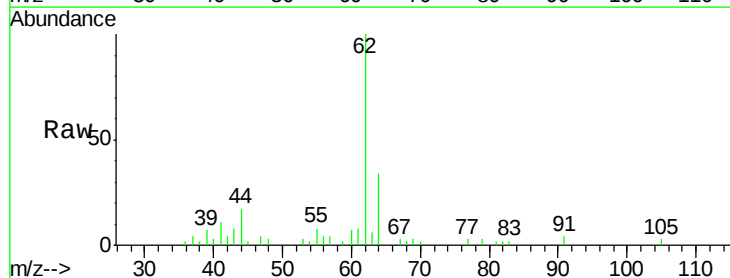
Acq: 13 Jan 2020 14:06

Tgt Ion: 62 Resp: 11042

Ion Ratio Lower Upper

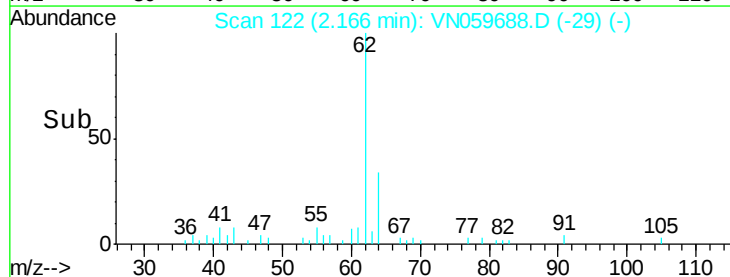
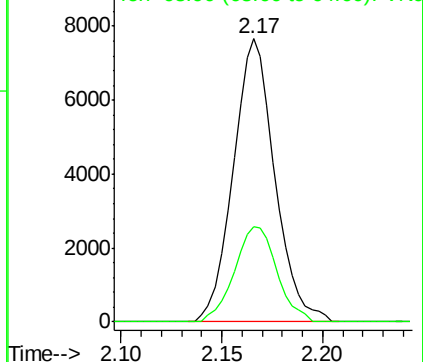
62 100

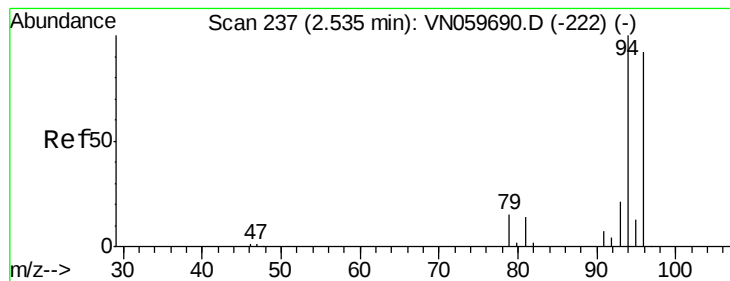
64 33.7 24.6 37.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 3.517 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tot Ion: 94 Resp: 7561

Ion Ratio Lower Upper

94 100

96 86.7 74.7 112.1

Instrument :

MSVOA_N

ClientSampled :

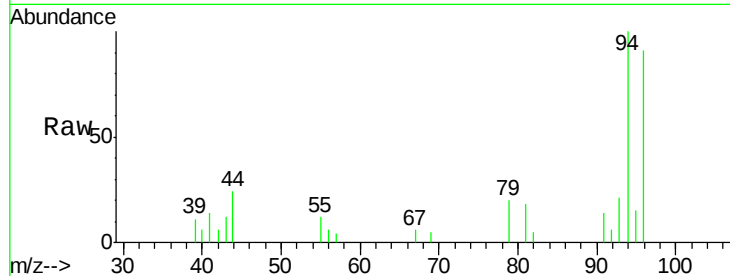
VSTDIC005

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

4000

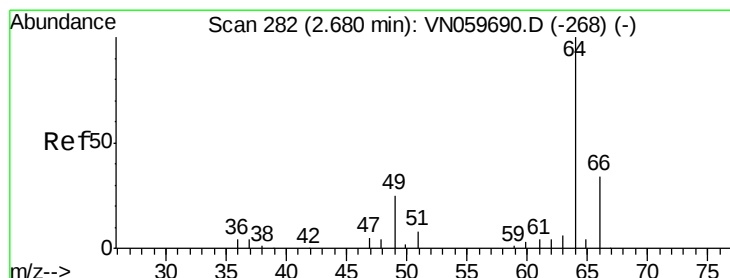
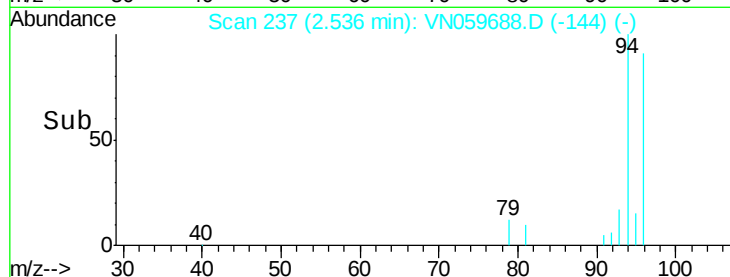
3000

2000

1000

0

Time-->



#6

Chloroethane

Concen: 2.783 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN059688.D

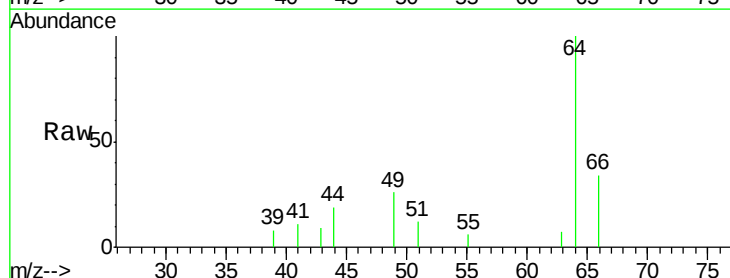
Acq: 13 Jan 2020 14:06

Tgt Ion: 64 Resp: 5784

Ion Ratio Lower Upper

64 100

66 33.9 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.68

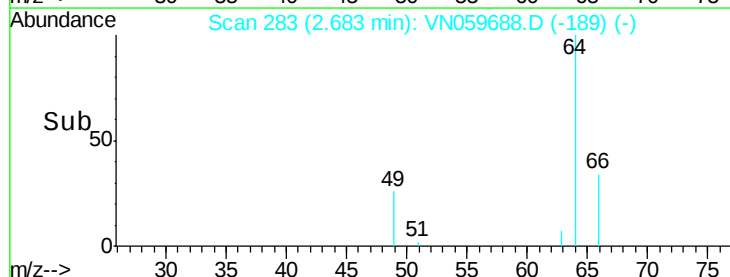
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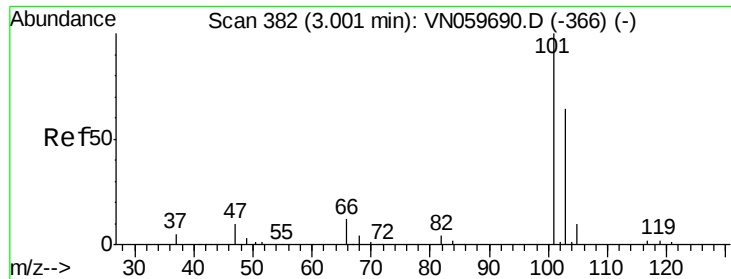
2000

1000

0

Time-->





#7

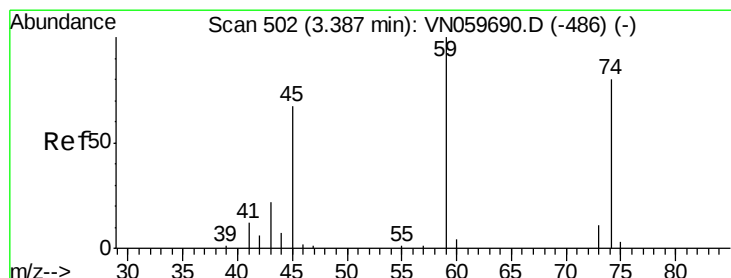
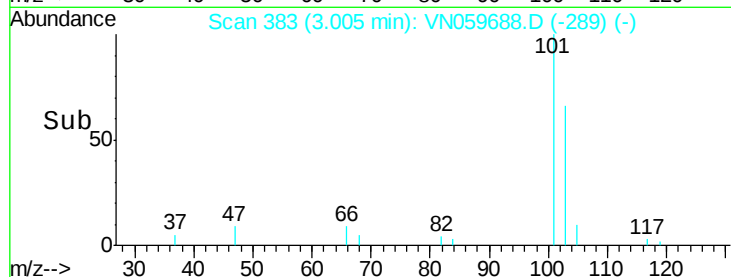
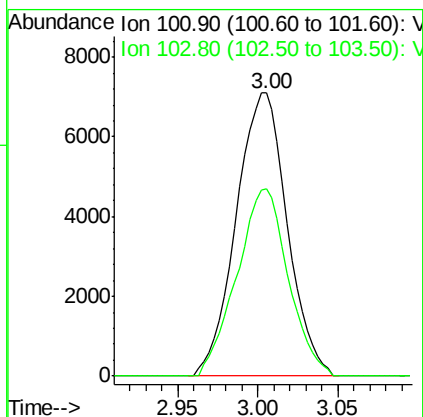
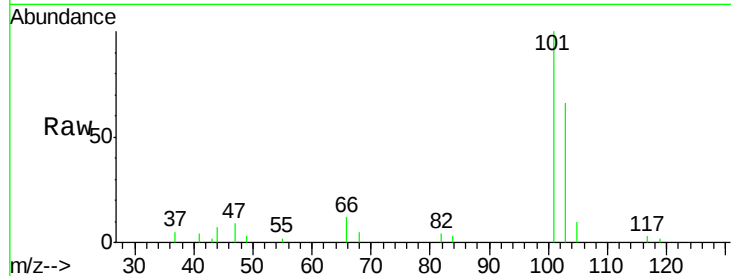
Trichlorofluoromethane
Concen: 3.819 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 15496
Ion Ratio Lower Upper
101 100
103 66.1 51.0 76.6

Manual Integrations
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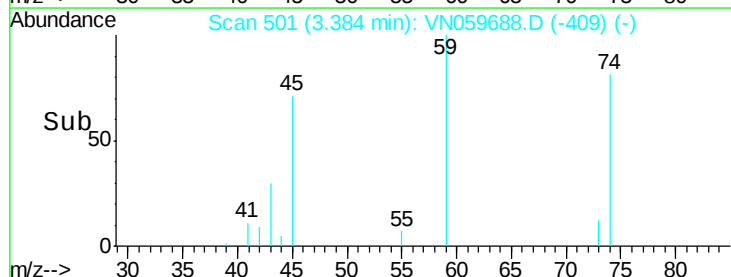
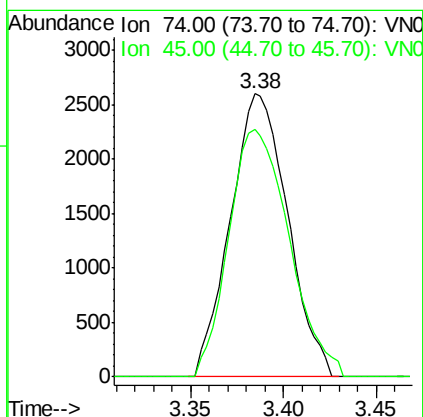
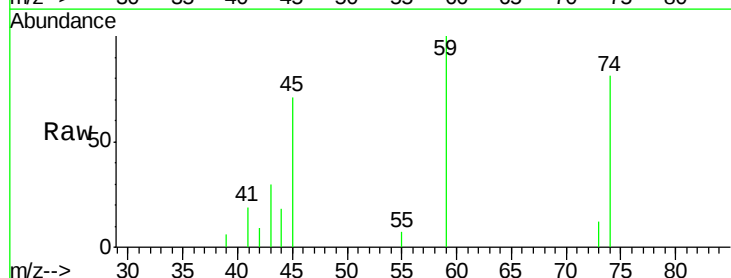
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1/14/2020 10:59:41 AM

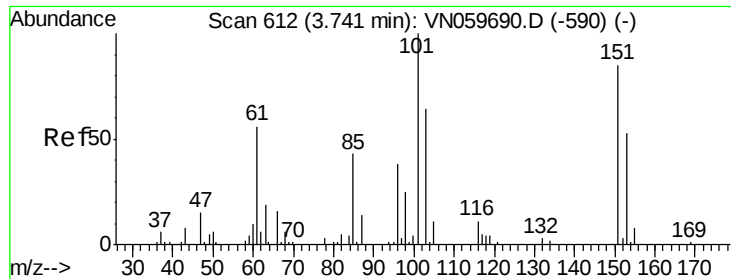


#8

Diethyl Ether
Concen: 4.391 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 74 Resp: 5567
Ion Ratio Lower Upper
74 100
45 92.2 51.9 155.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.309 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.01 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

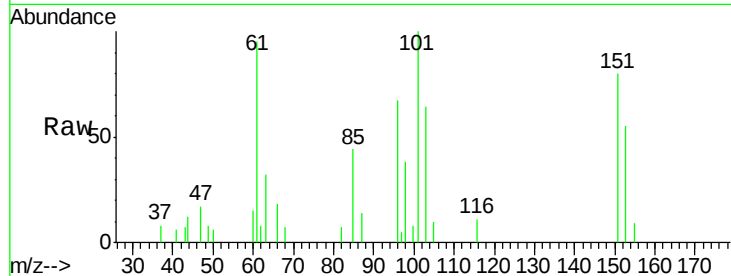
ClientSampled :

VSTDIC005

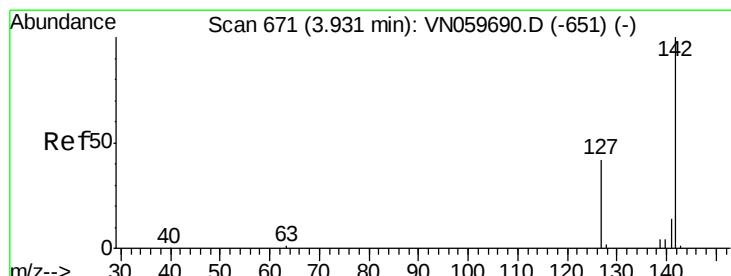
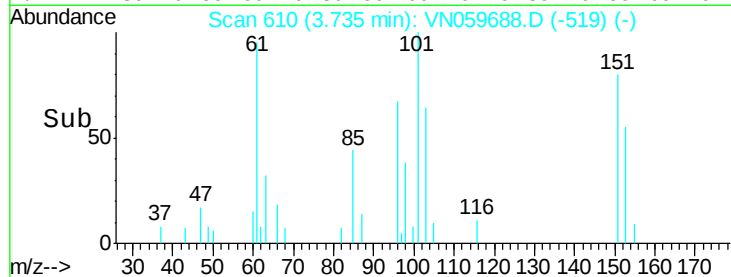
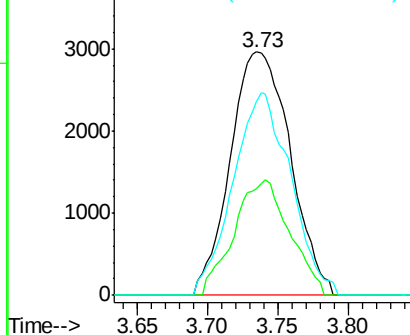
Tot Ion:	101	Resp:	8811
Ion Ratio	Lower	Upper	
101	100		
85	43.8	36.6	54.8
151	79.8	59.7	89.5

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



#10

Methyl Iodide

Concen: 4.636 ug/l

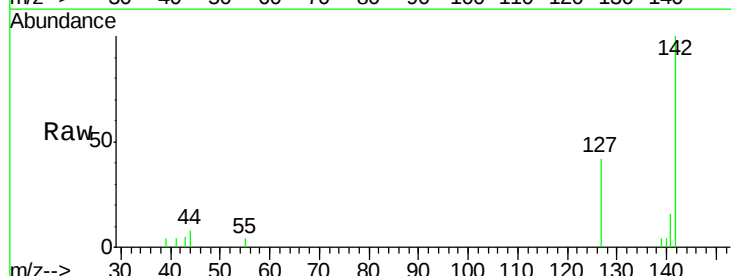
RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

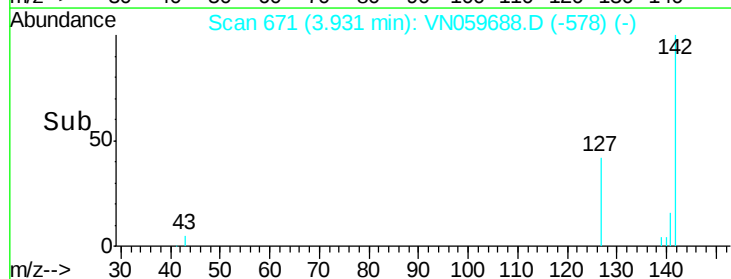
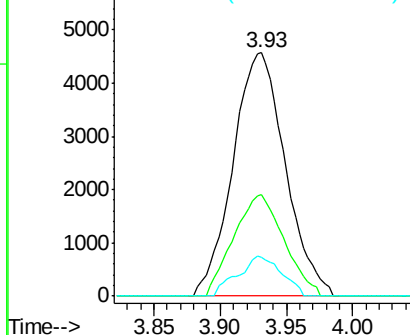
Lab File: VN059688.D

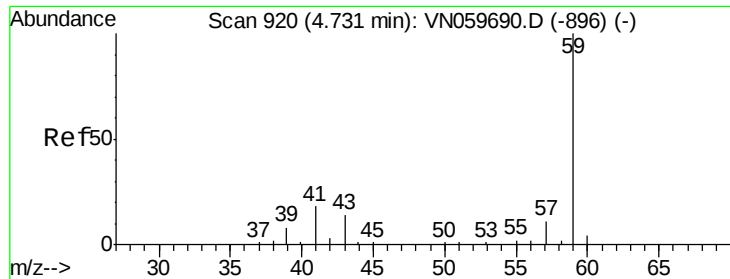
Acq: 13 Jan 2020 14:06

Tgt Ion:	142	Resp:	12550
Ion Ratio	Lower	Upper	
142	100		
127	40.0	36.7	55.1
141	13.6	11.7	17.5



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





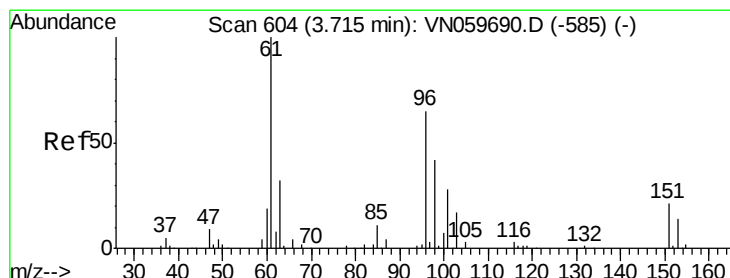
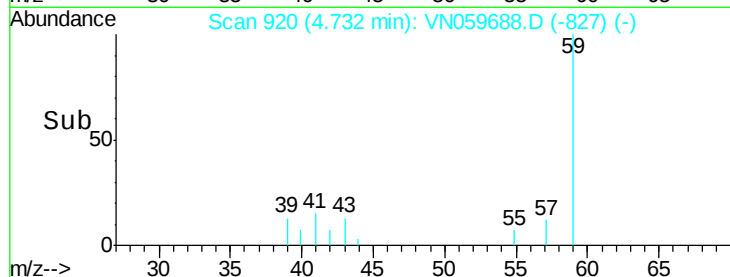
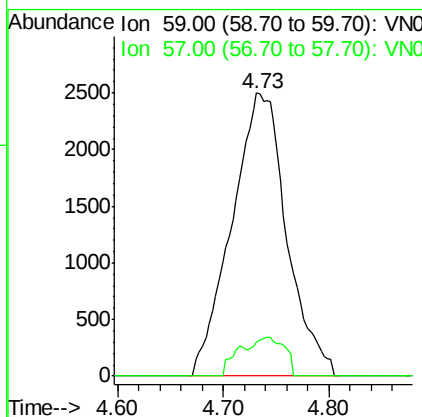
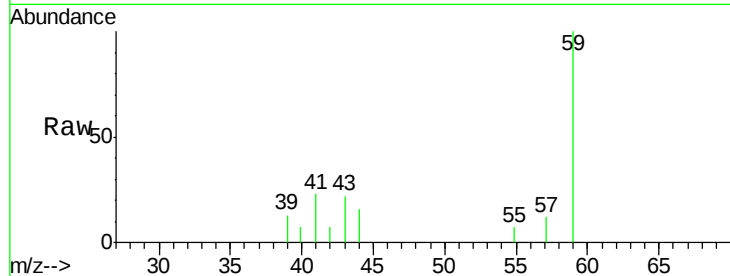
#11
Tert butyl alcohol
Concen: 17.884 ug/l
RT: 4.73 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 59 Resp: 9074
Ion Ratio Lower Upper
59 100
57 7.4 8.6 12.8#

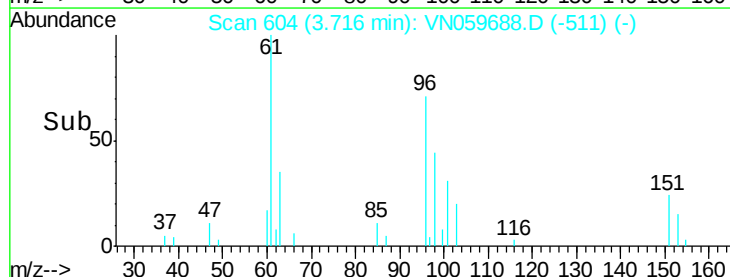
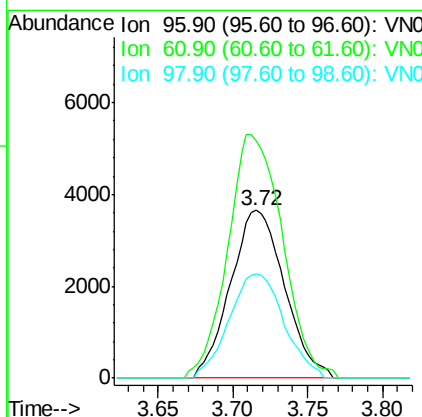
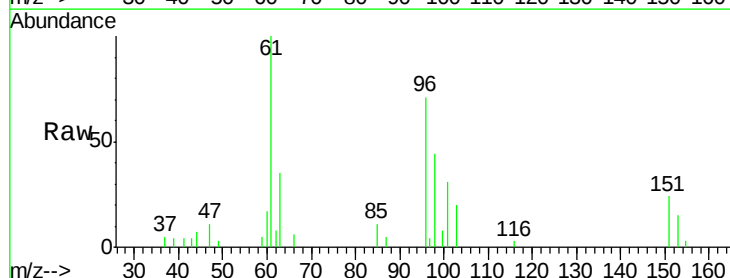
Manual Integrations
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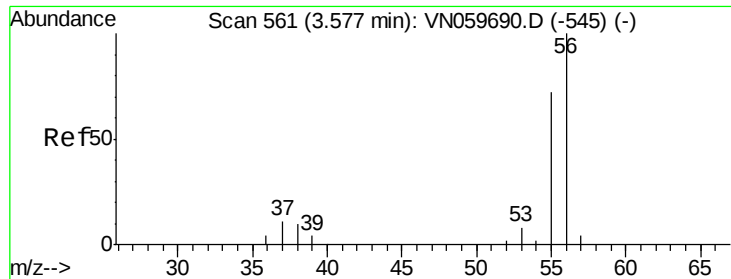
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#12
1,1-Dichloroethene
Concen: 4.608 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 96 Resp: 9192
Ion Ratio Lower Upper
96 100
61 141.3 137.5 206.3
98 61.9 50.2 75.4





#13

Acrolein

Concen: 19.708 ug/l

RT: 3.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 7123

Ion Ratio Lower Upper

56 100

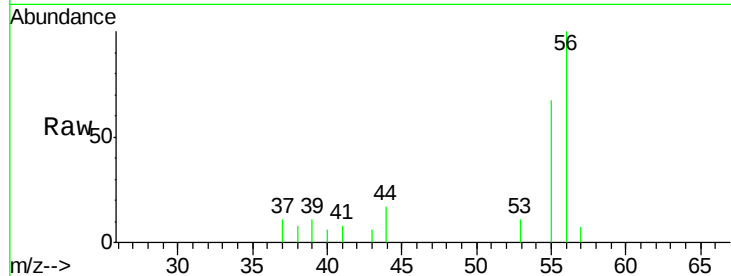
55 79.3 58.6 88.0

Manual Integrations

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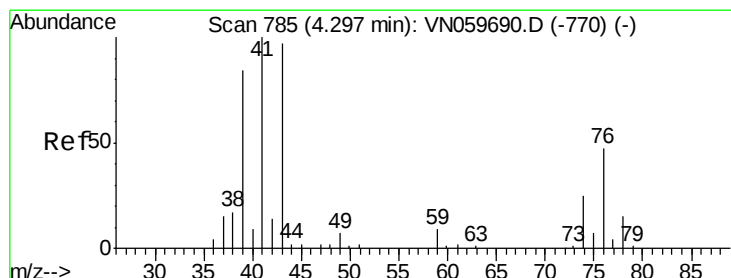
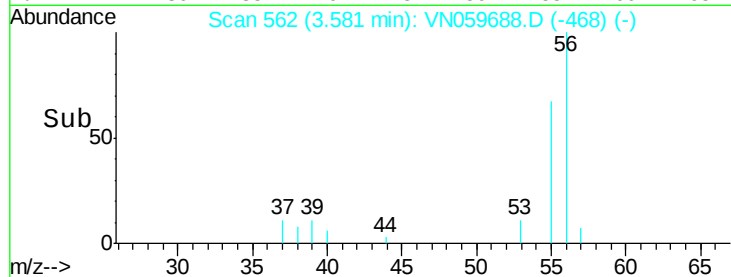
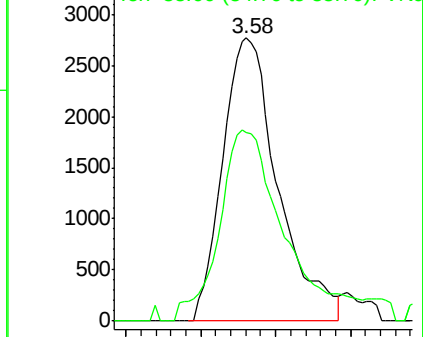
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 3.089 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

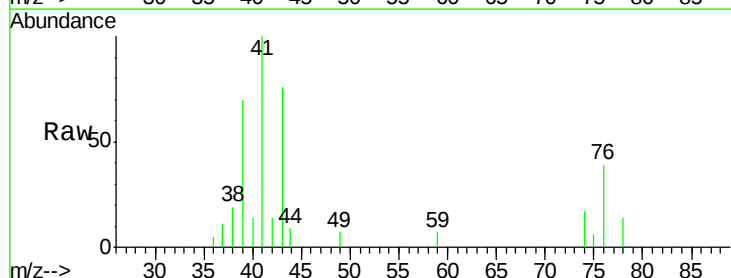
Tgt Ion: 41 Resp: 12650

Ion Ratio Lower Upper

41 100

39 85.2 57.8 86.8

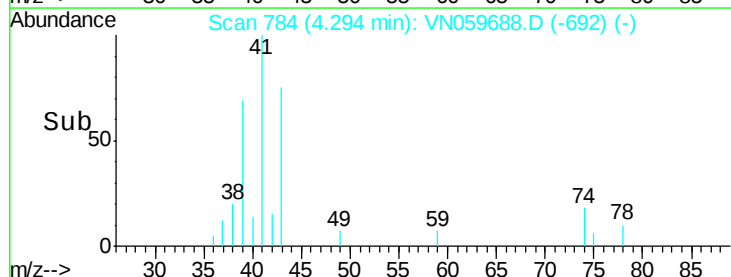
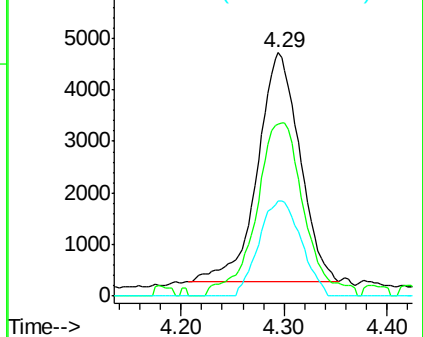
76 41.5 25.4 38.0#

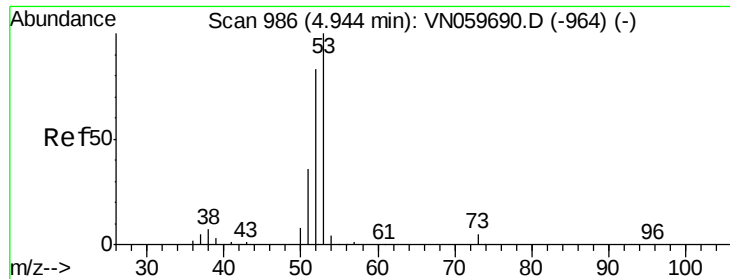


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 16.756 ug/l

RT: 4.95 min Scan# 988

Delta R.T. 0.01 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

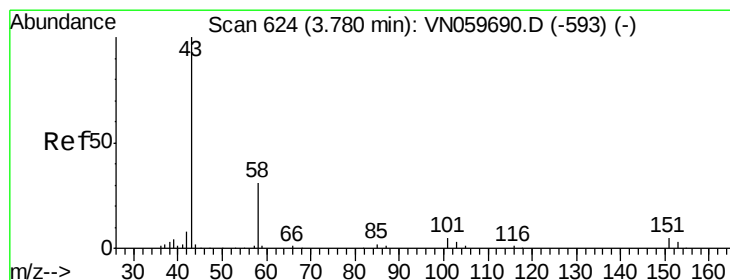
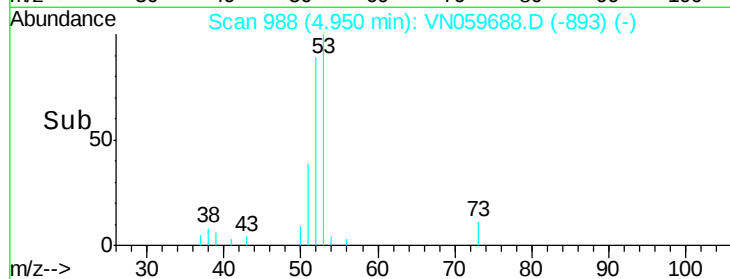
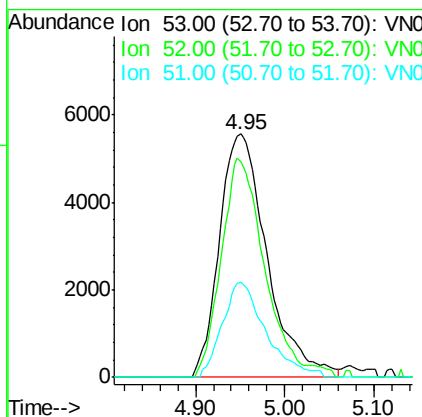
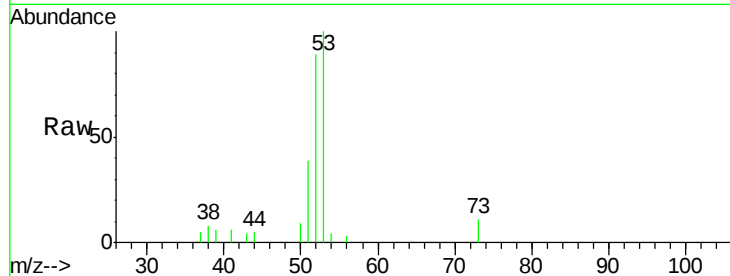
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	20565
Ion	Ratio	Lower	Upper
53	100		
52	80.4	66.3	99.5
51	35.7	29.7	44.5

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#16

Acetone

Concen: 12.396 ug/l

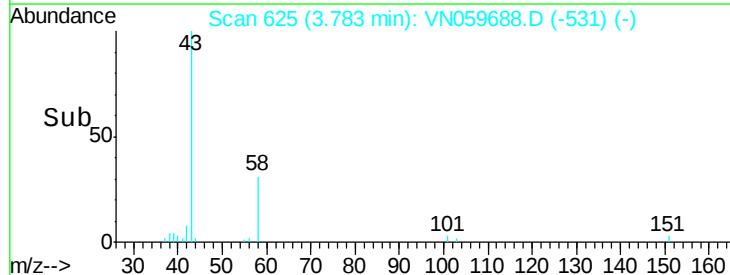
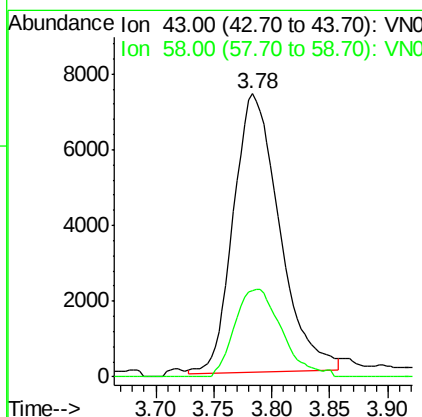
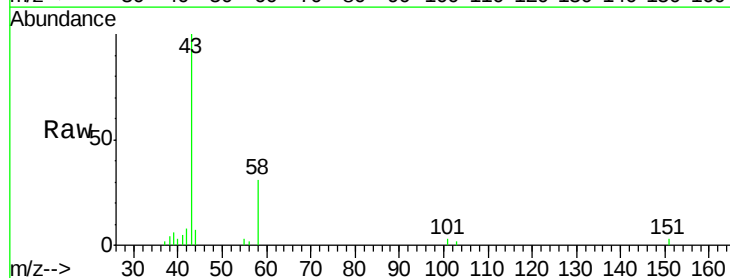
RT: 3.78 min Scan# 625

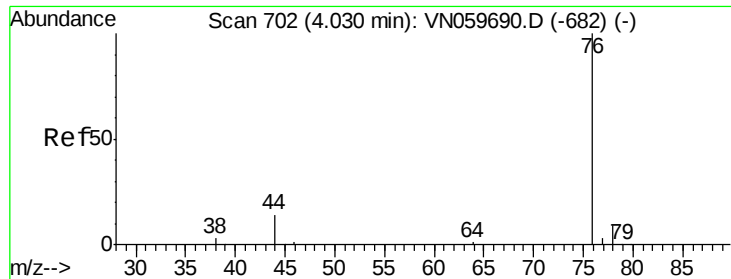
Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion:	43	Resp:	20368
Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.6	35.4





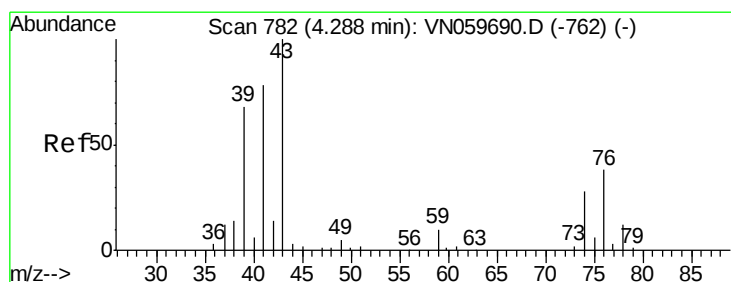
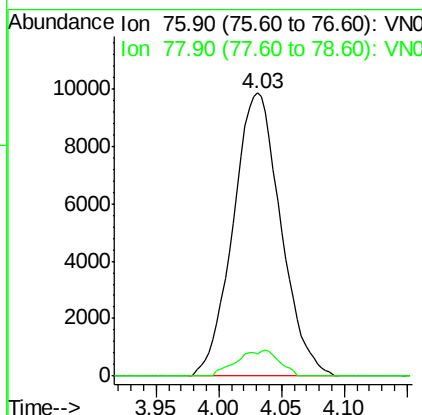
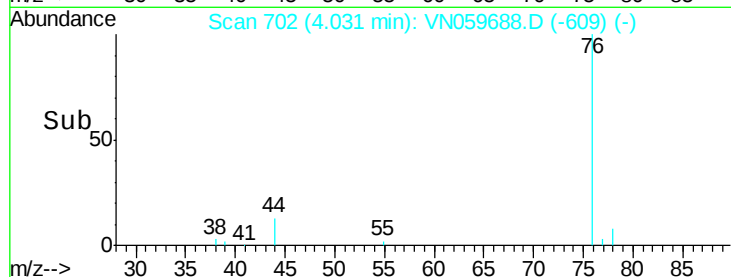
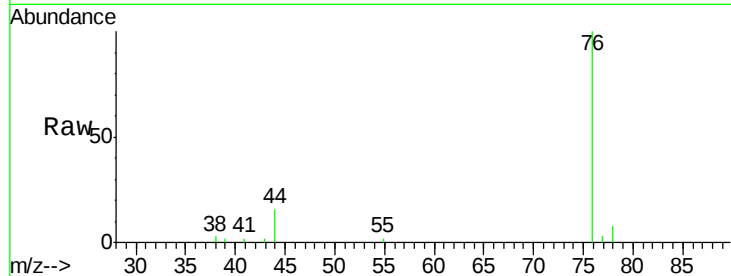
#17
Carbon Disulfide
Concen: 3.800 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 26027
Ion Ratio Lower Upper
76 100
78 8.0 7.4 11.0

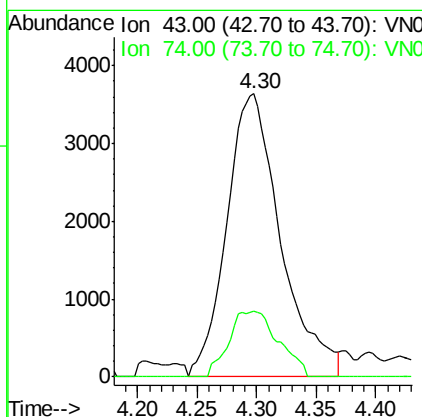
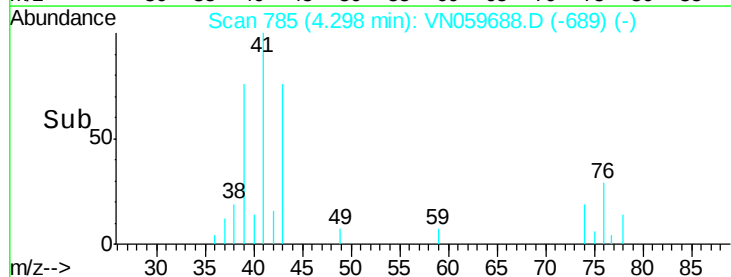
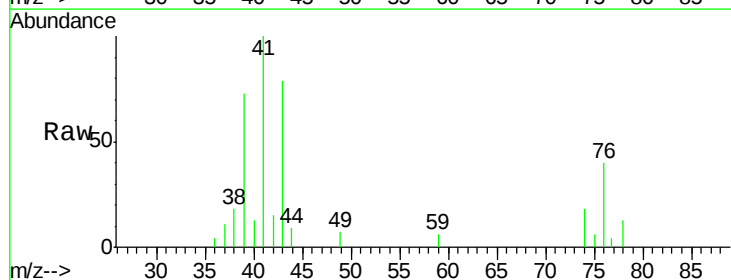
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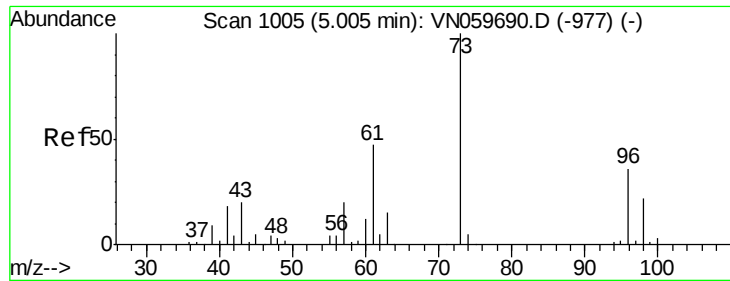
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#18
Methyl Acetate
Concen: 3.329 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 43 Resp: 11463
Ion Ratio Lower Upper
43 100
74 21.2 17.5 26.3





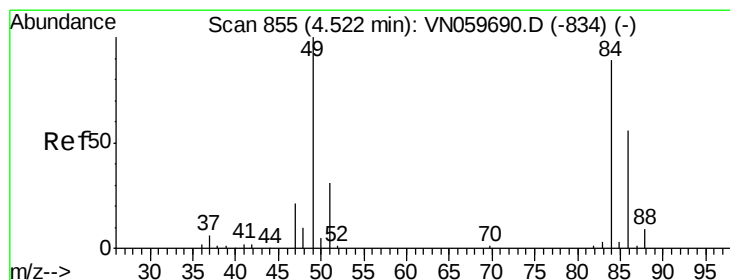
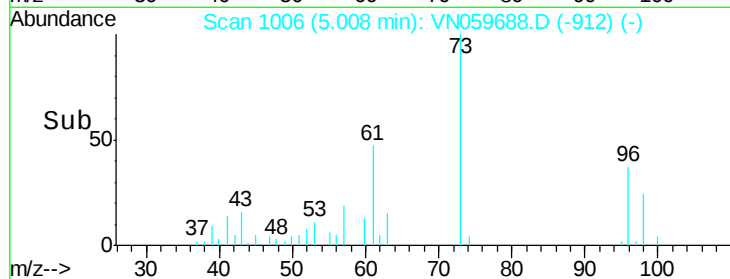
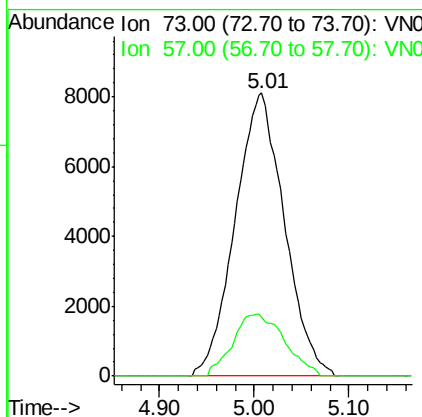
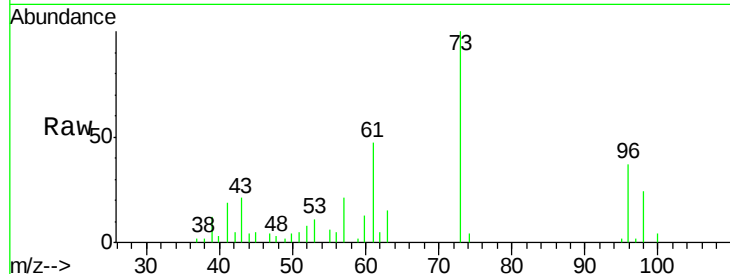
#19
Methvl tert-butvl Ether
Concen: 4.157 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 73 Resp: 29277
Ion Ratio Lower Upper
73 100
57 20.8 18.6 27.8

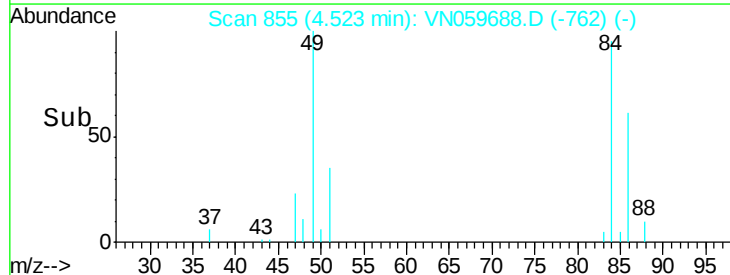
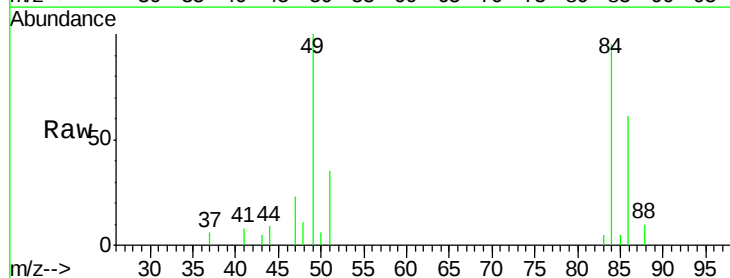
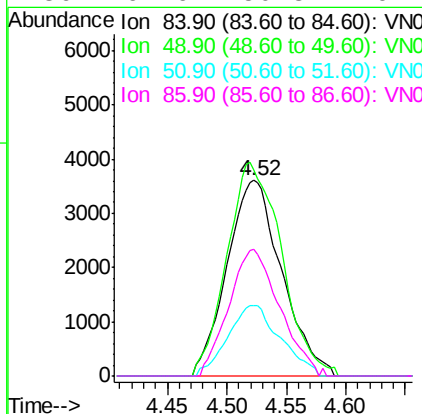
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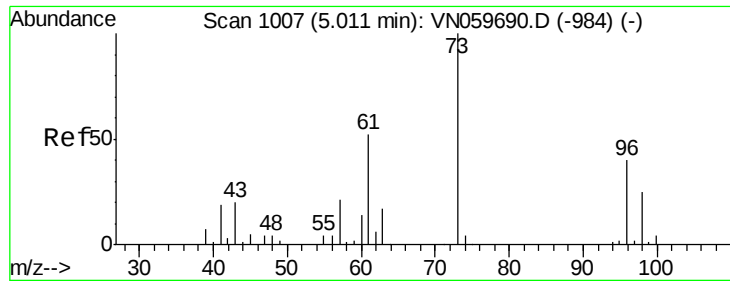
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#20
Methylene Chloride
Concen: 4.837 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 84 Resp: 11479
Ion Ratio Lower Upper
84 100
49 105.1 106.6 160.0#
51 36.3 31.9 47.9
86 64.6 50.8 76.2





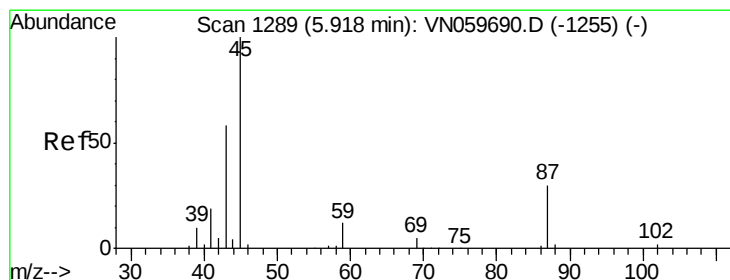
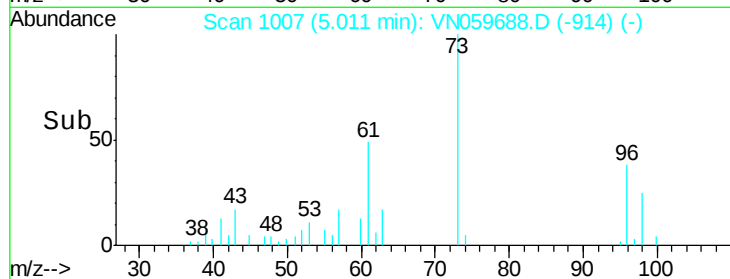
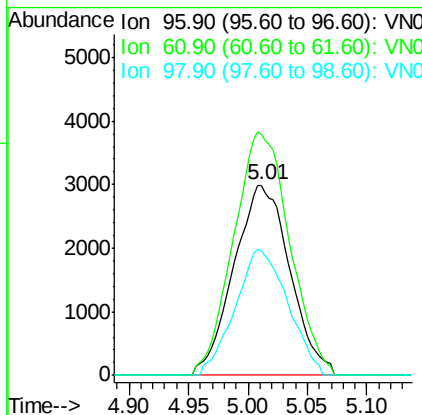
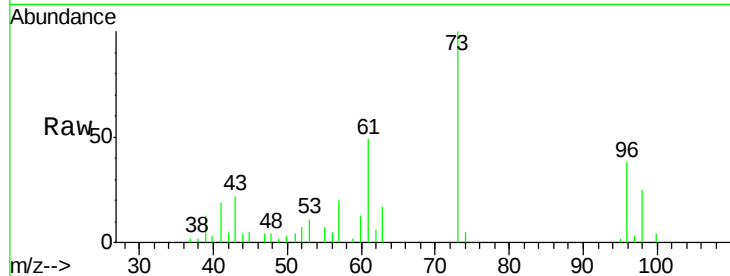
#21
trans-1,2-Dichloroethene
Concen: 4.386 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.1	120.4	180.6
98	65.7	50.6	75.8

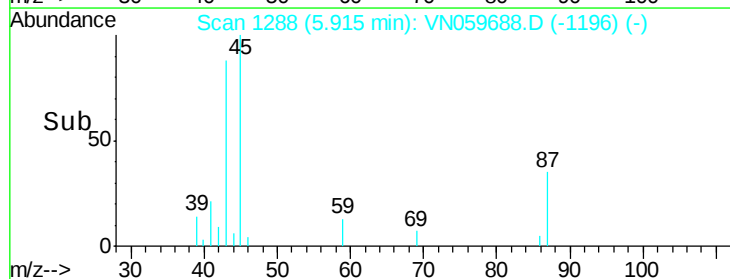
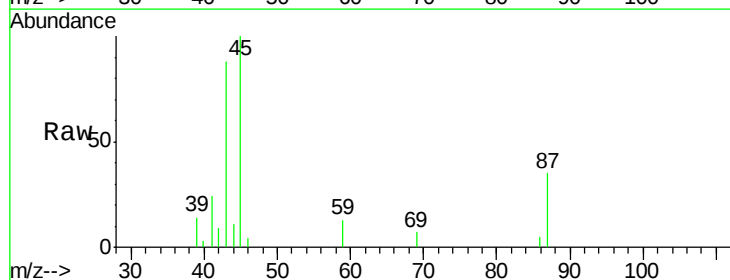
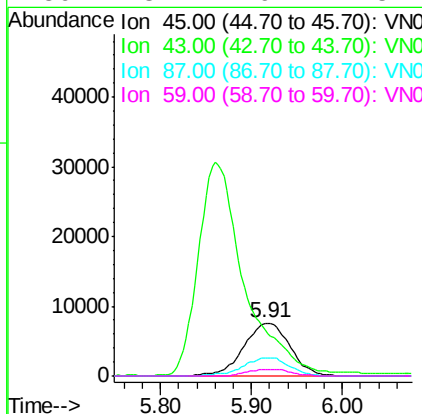
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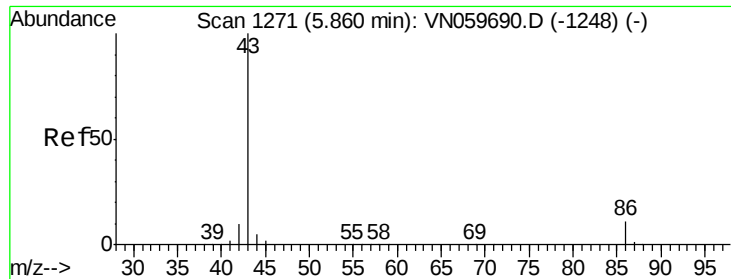
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#22
Diisopropyl ether
Concen: 3.552 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
45	100		
43	80.6	50.8	76.2#
87	34.6	21.0	31.6#
59	13.2	9.1	13.7





#23

Vinyl Acetate

Concen: 18.388 ug/l

RT: 5.86 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 108945

Ion Ratio Lower Upper

43 100

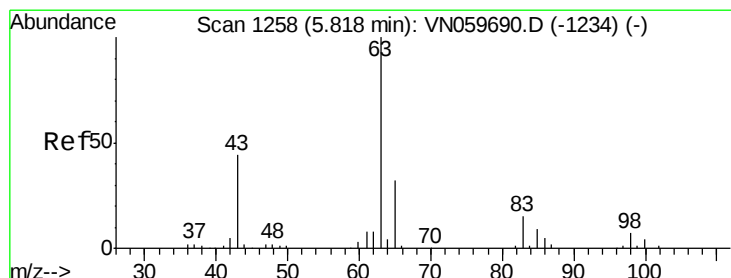
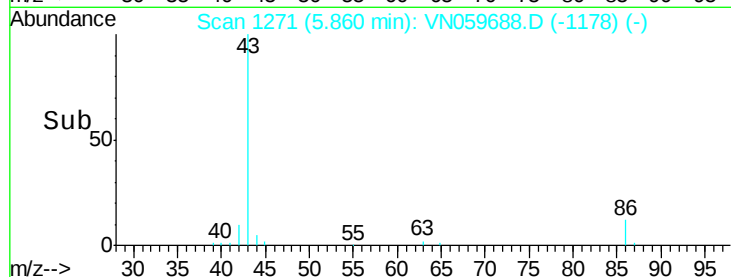
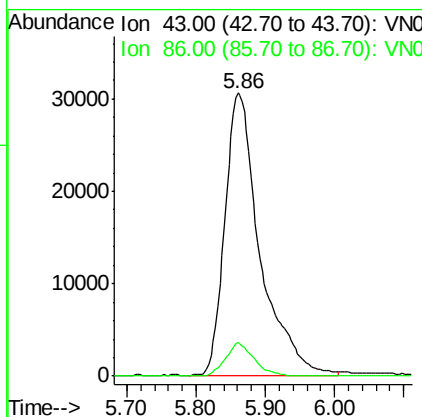
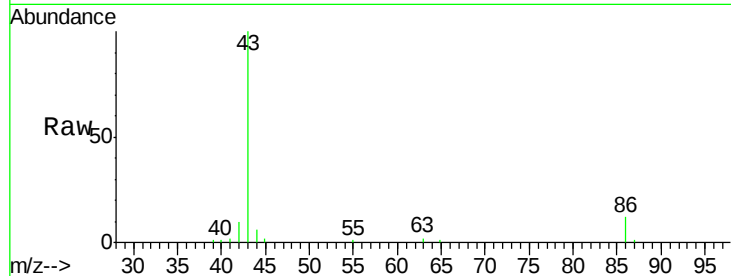
86 11.8 7.6 11.4#

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 3.944 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

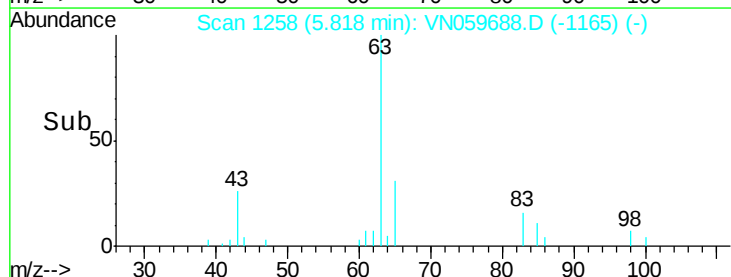
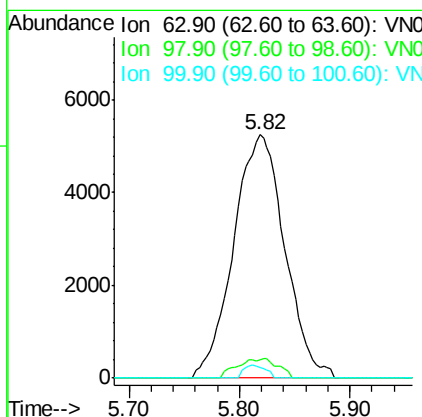
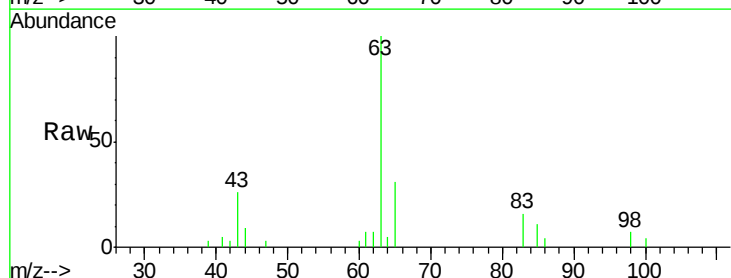
Tgt Ion: 63 Resp: 16868

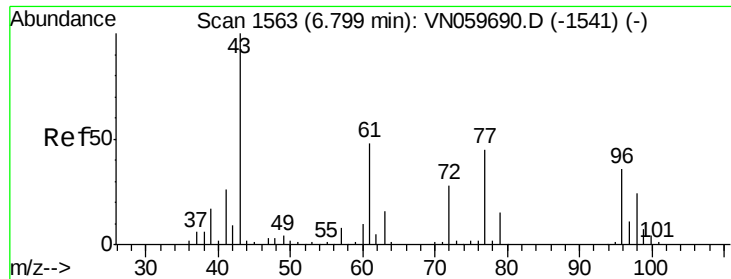
Ion Ratio Lower Upper

63 100

98 7.3 2.9 8.7

100 4.5 2.0 6.0





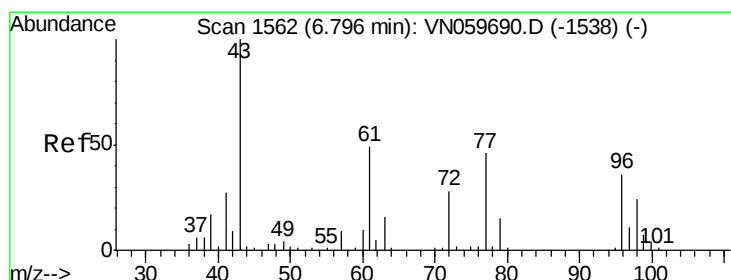
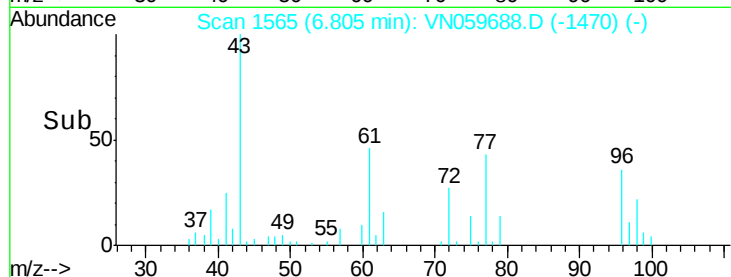
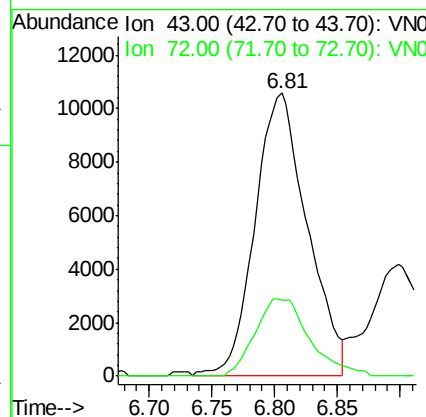
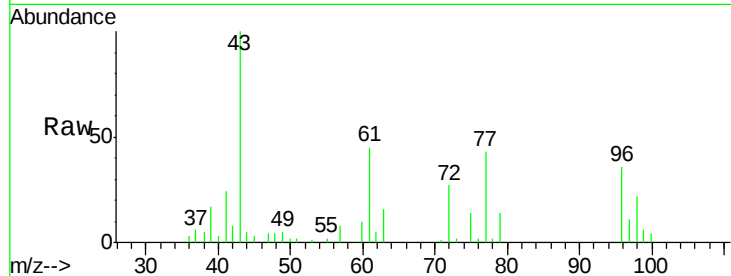
#25
2-Butanone
Concen: 15.645 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 30740
Ion Ratio Lower Upper
43 100
72 26.9 19.9 29.9

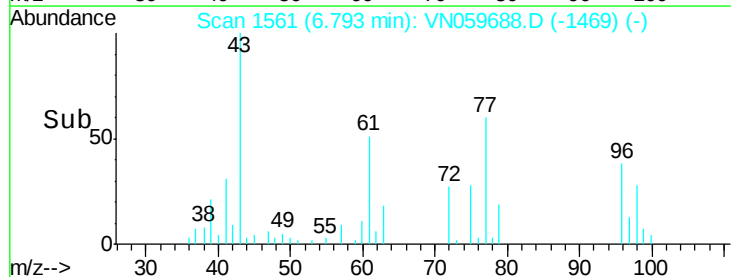
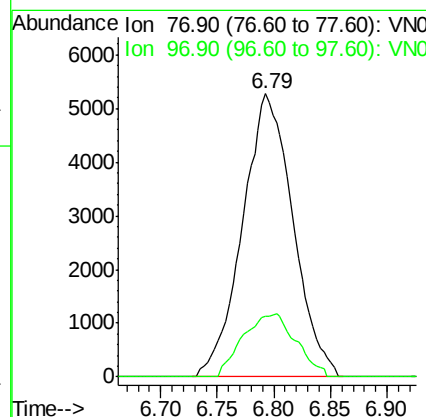
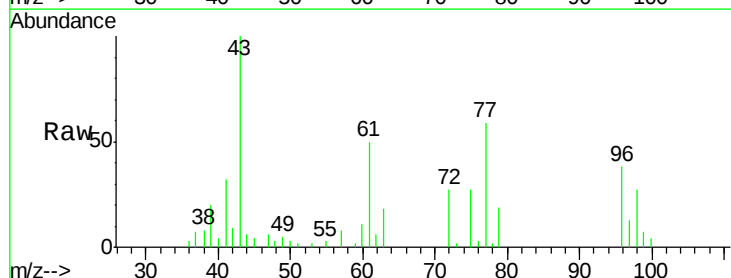
Manual Integrations
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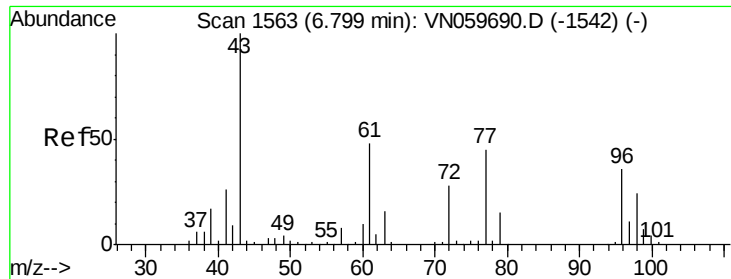
MMDadoda
1/14/2020 10:59:41 AM



#26
2,2-Dichloropropane
Concen: 4.206 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 77 Resp: 16349
Ion Ratio Lower Upper
77 100
97 23.3 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 4.407 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

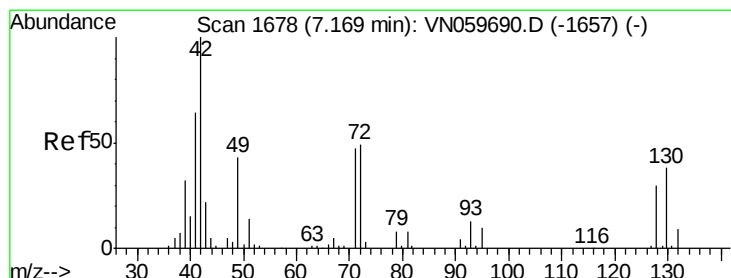
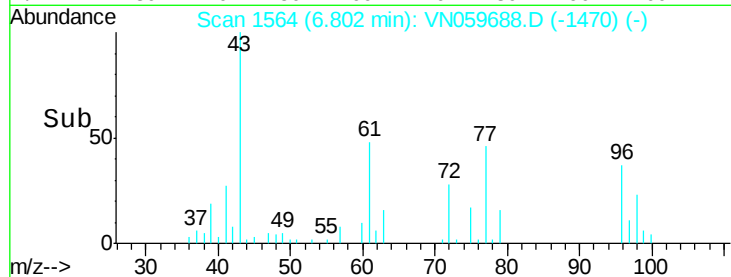
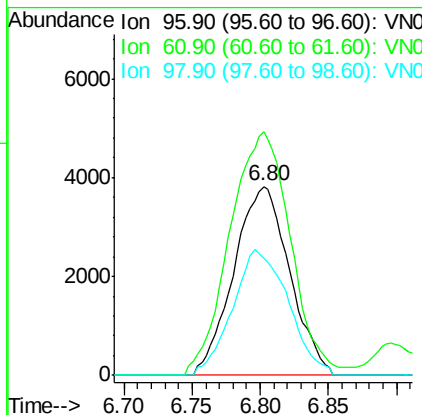
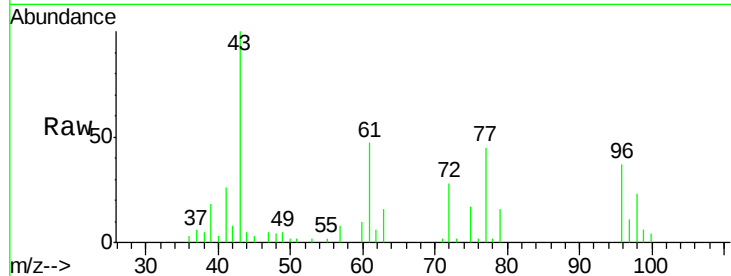
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	10860
Ion	Ratio	Lower	Upper
96	100		
61	139.8	0.0	317.6
98	66.2	0.0	127.0

Manual Integrations
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#28

Bromochloromethane

Concen: 4.513 ug/l

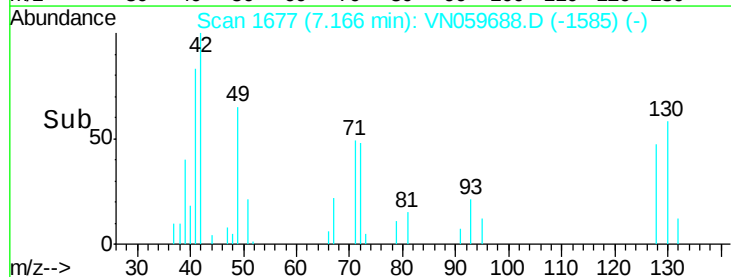
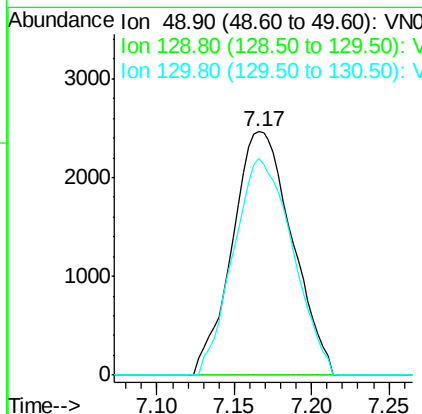
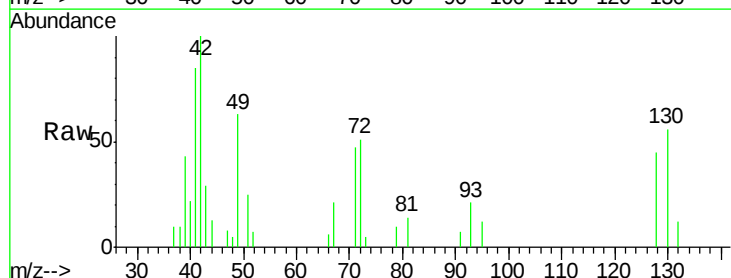
RT: 7.17 min Scan# 1677

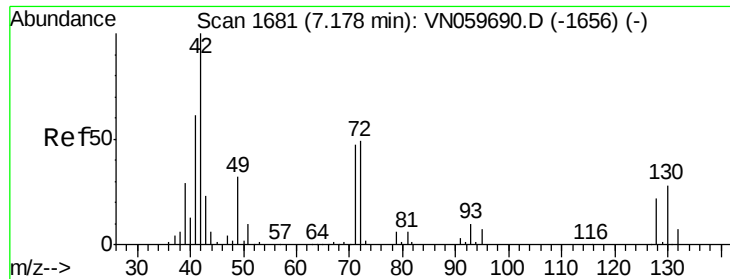
Delta R.T. -0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion:	49	Resp:	6619
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	87.9	54.7	82.1#





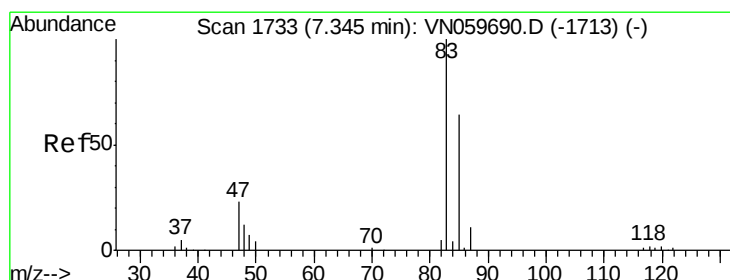
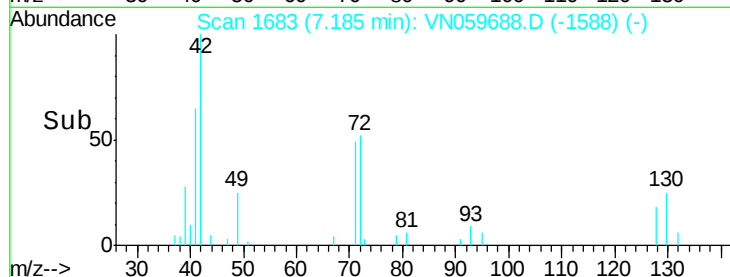
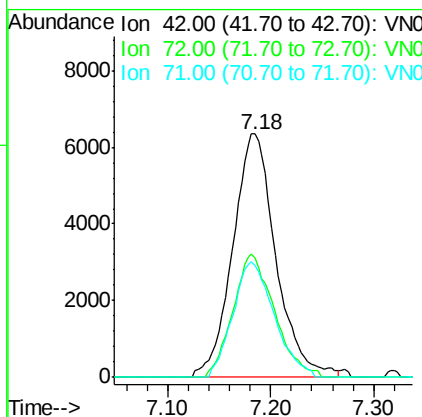
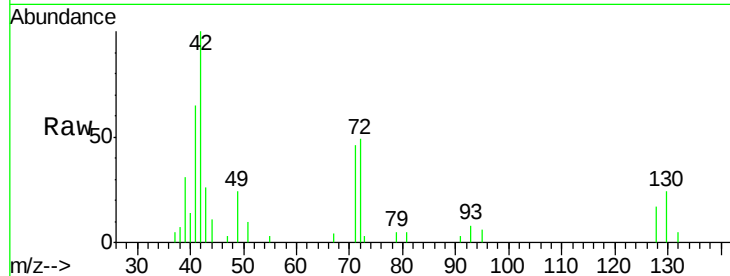
#29
Tetrahydrofuran
Concen: 15.440 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.6	33.1	49.7
71	45.5	31.4	47.0

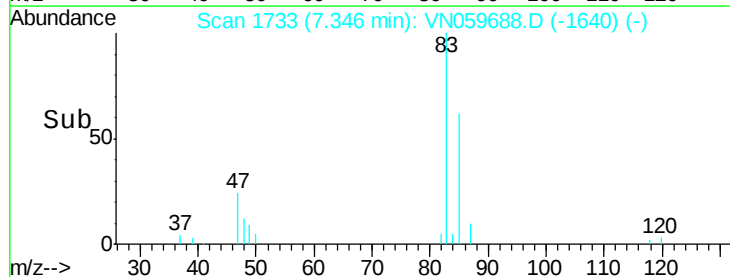
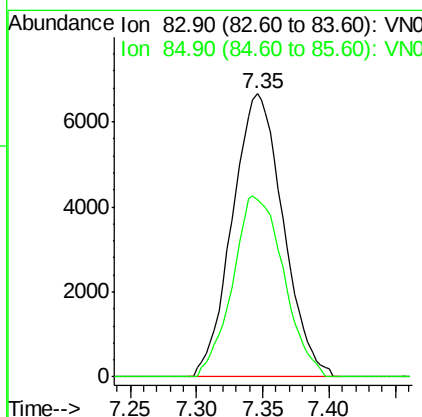
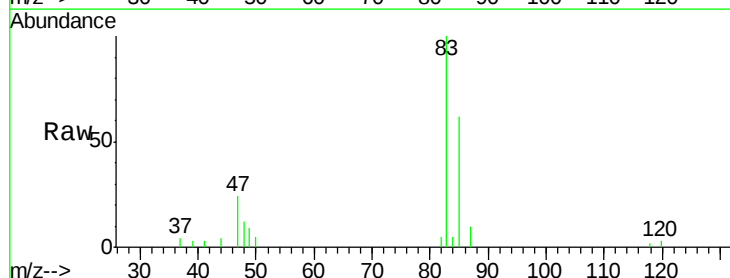
Manual Integrations
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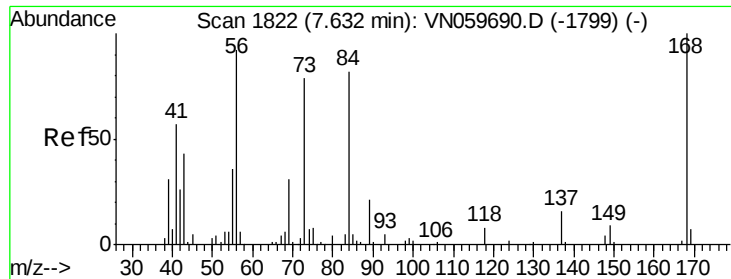
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#30
Chloroform
Concen: 4.223 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.4	78.6





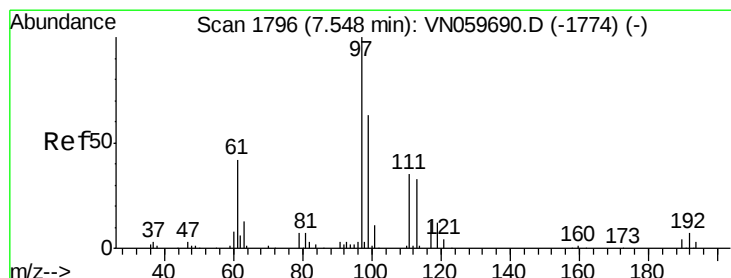
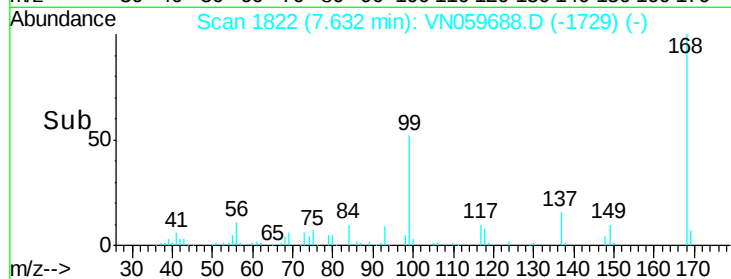
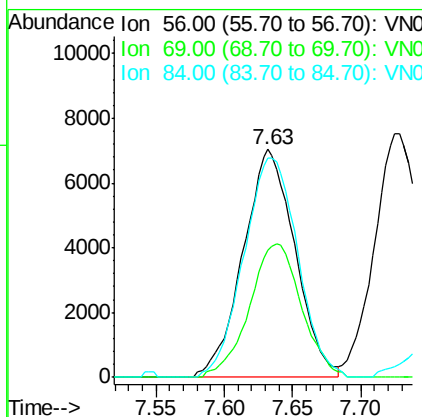
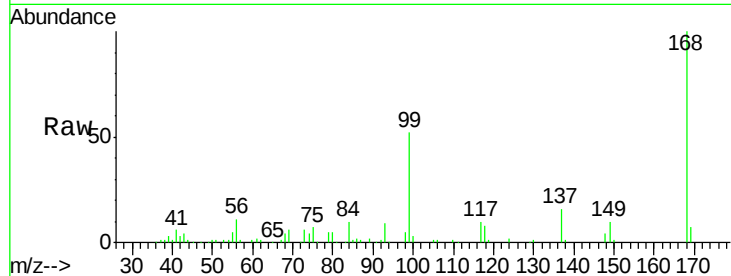
#31
Cyclohexane
Concen: 4.605 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	55.7	26.5	39.7#
84	96.1	65.3	97.9

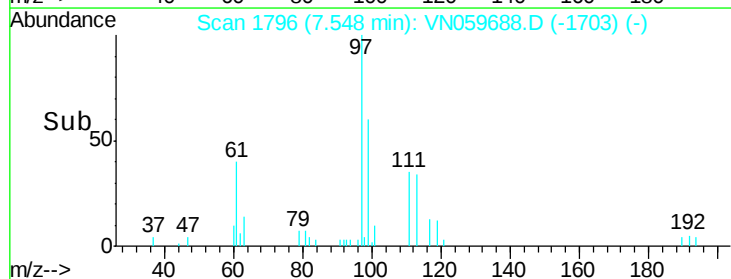
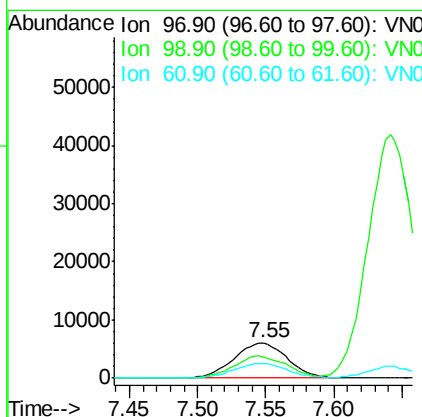
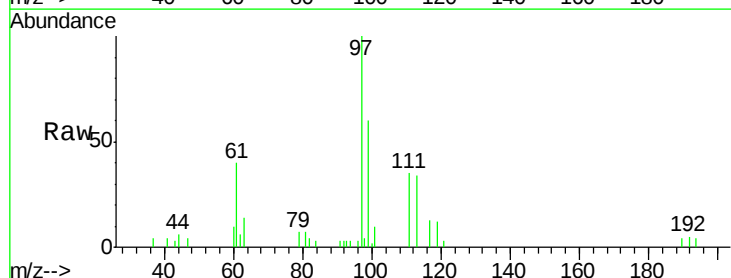
Manual Integrations
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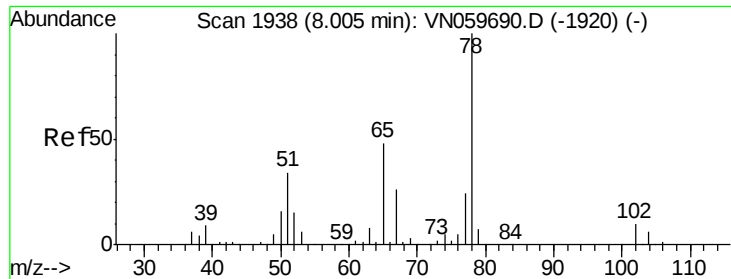
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#32
1,1,1-Trichloroethane
Concen: 4.322 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.0	76.4
61	41.4	38.5	57.7





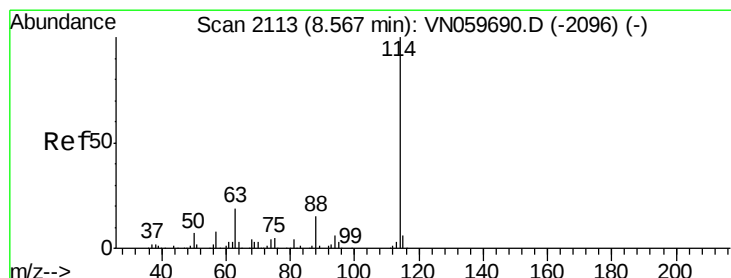
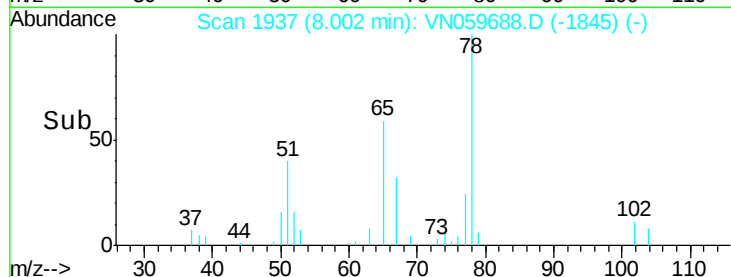
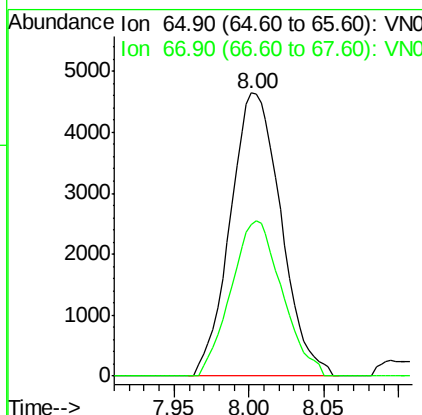
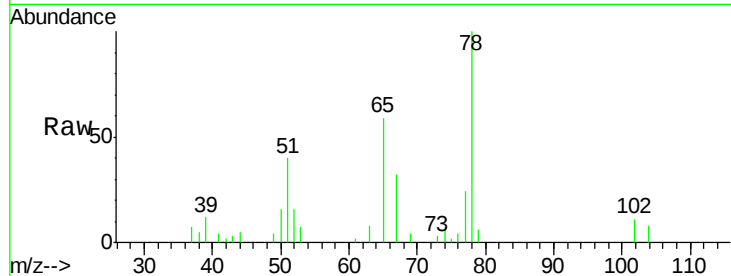
#33
 1,2-Dichloroethane-d4
 Concen: 3.966 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
65	100	10975		
67	55.1	0.0	103.0	

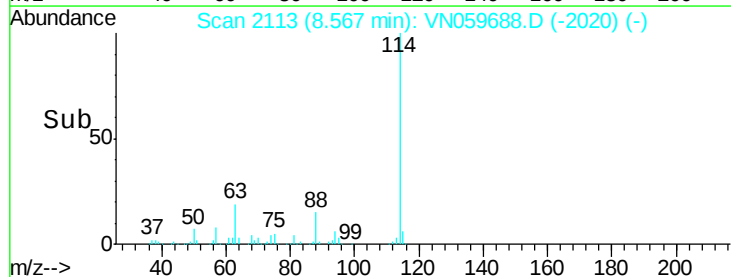
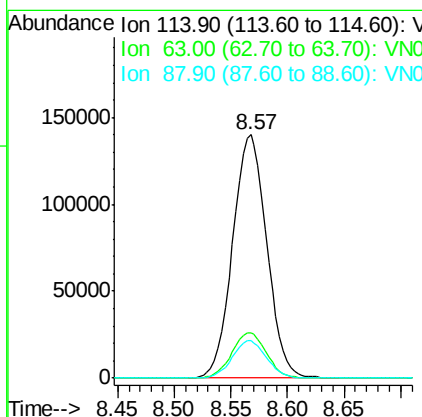
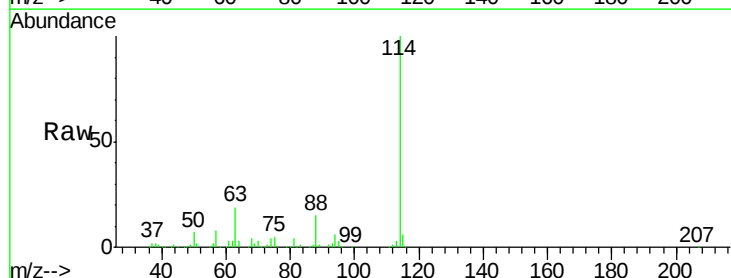
Manual Integrations
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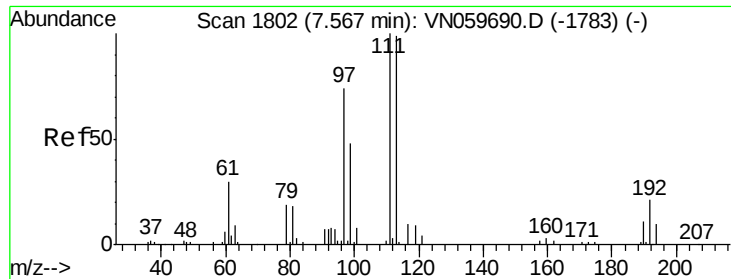
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	294286		
63	18.7	0.0	43.6	
88	15.2	0.0	31.4	





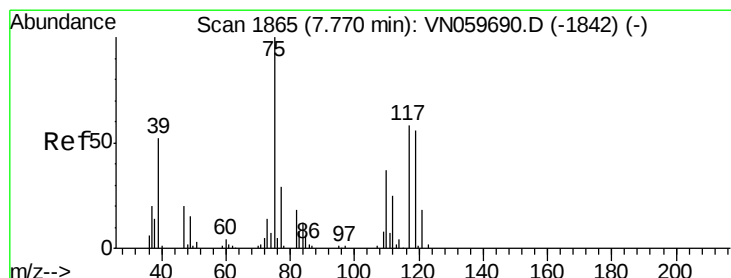
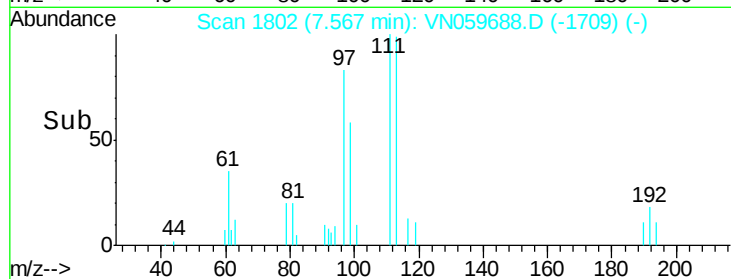
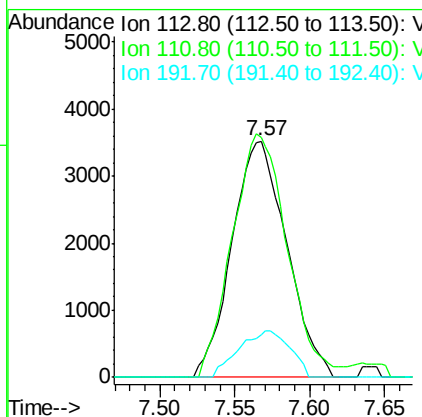
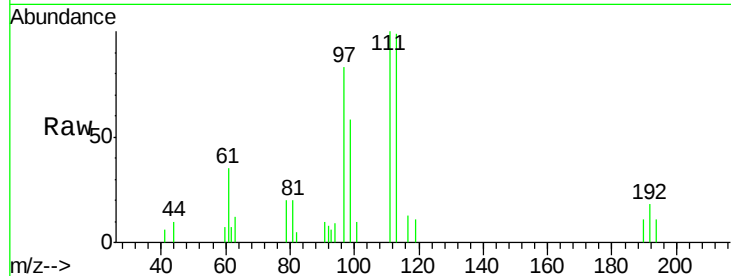
#35
 Dibromofluoromethane
 Concen: 4.870 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.5	125.3
192	18.5	15.4	23.2

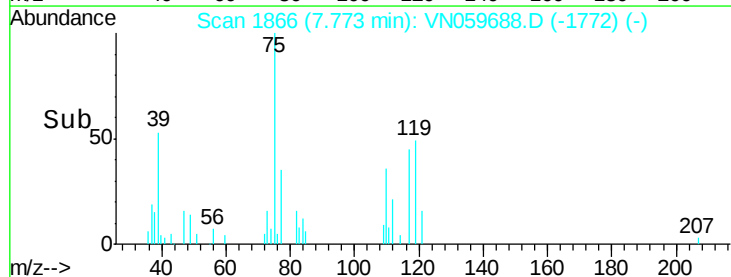
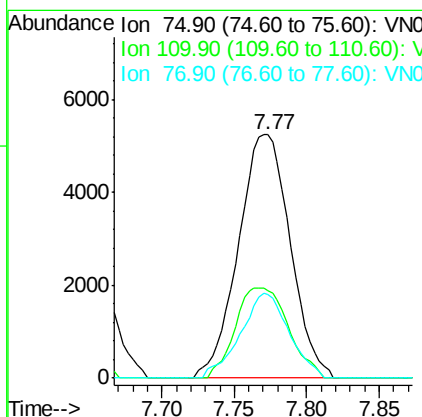
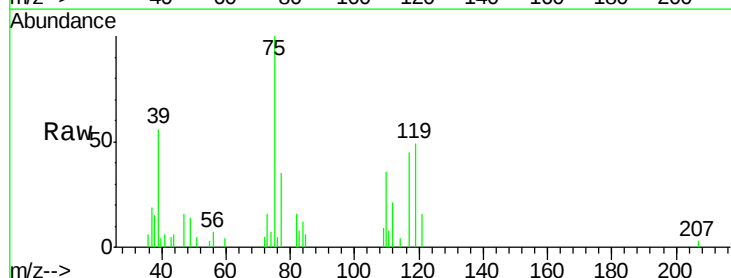
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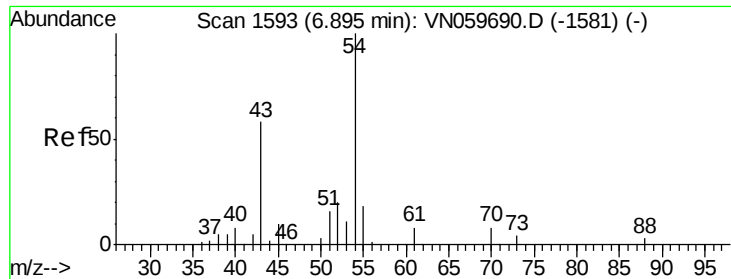
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#36
 1,1-Dichloropropene
 Concen: 4.246 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.9	16.6	49.7
77	32.7	25.1	37.7





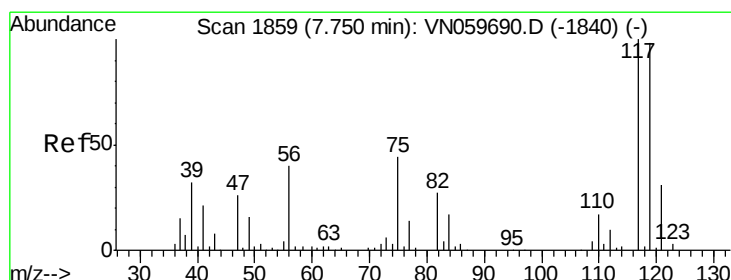
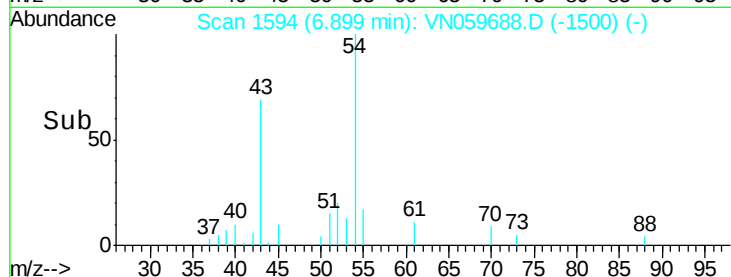
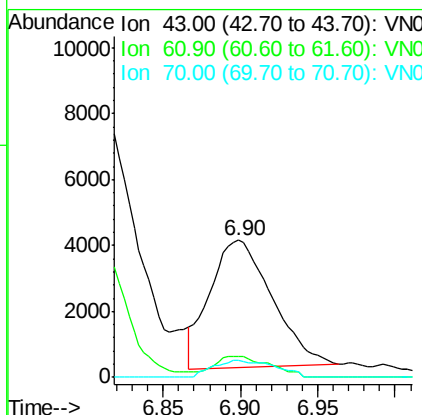
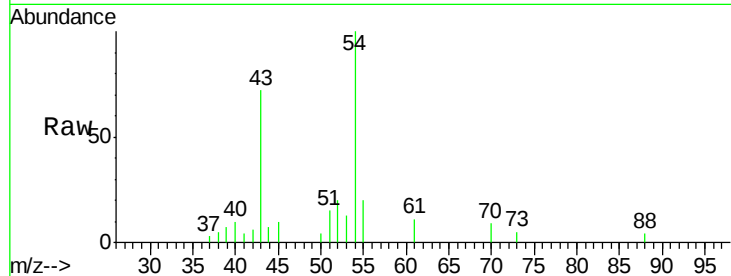
#37
Ethyl Acetate
Concen: 3.033 ug/l
RT: 6.90 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	43	61	70
Resp	10820	15.1	13.1
Lower		10.9	7.7
Upper		16.3	11.5

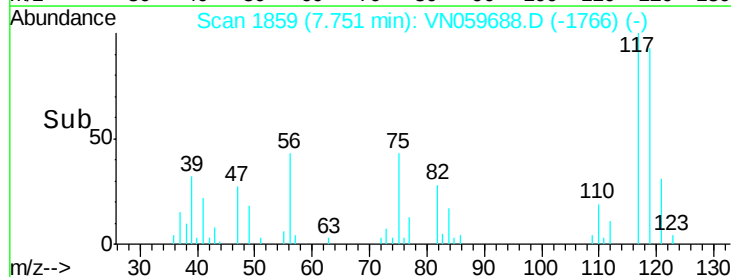
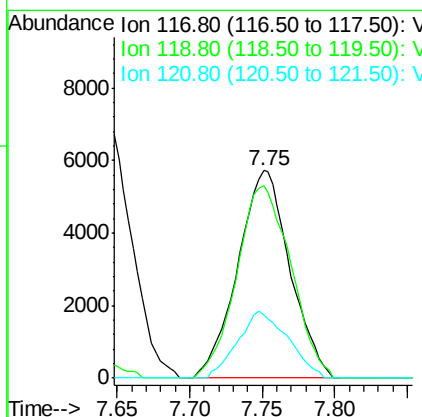
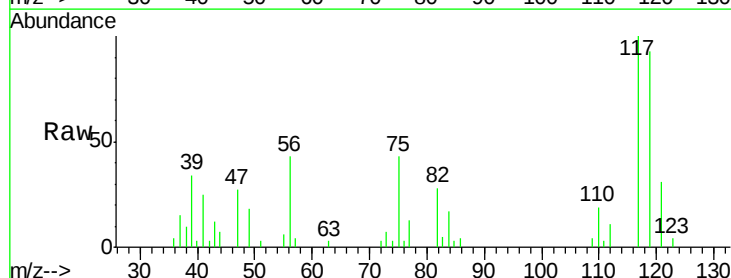
Manual Integrations
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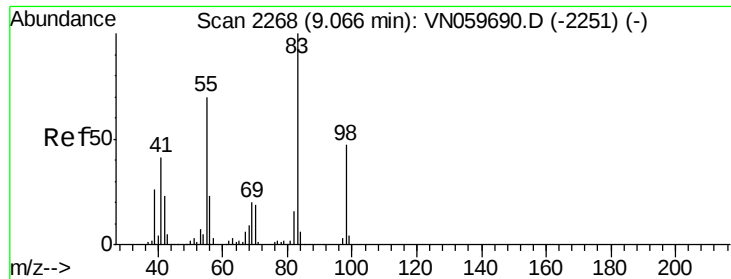
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#38
Carbon Tetrachloride
Concen: 4.493 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	117	119	121
Resp	14307	92.7	30.6
Lower		76.5	25.1
Upper		114.7	37.7





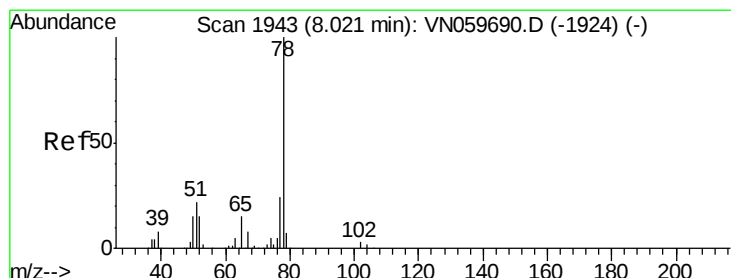
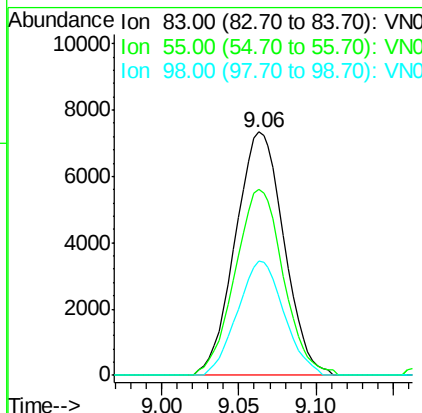
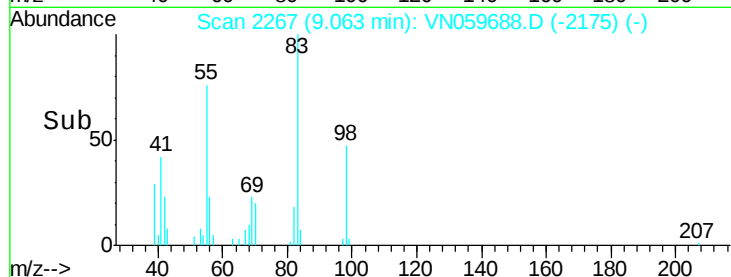
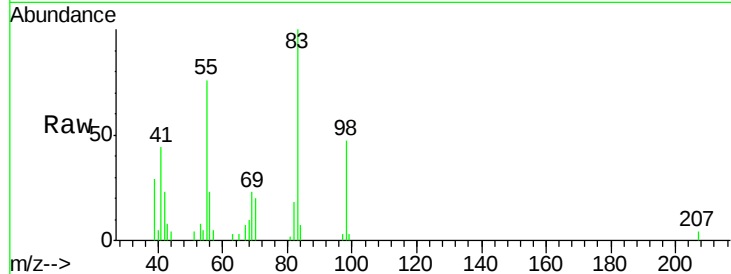
#39
Methvlcvclohexane
Concen: 4.603 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.4	64.2	96.2
98	46.7	35.9	53.9

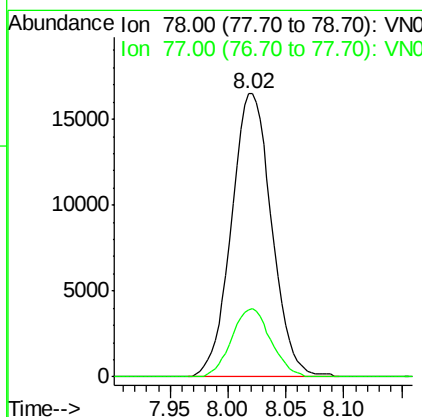
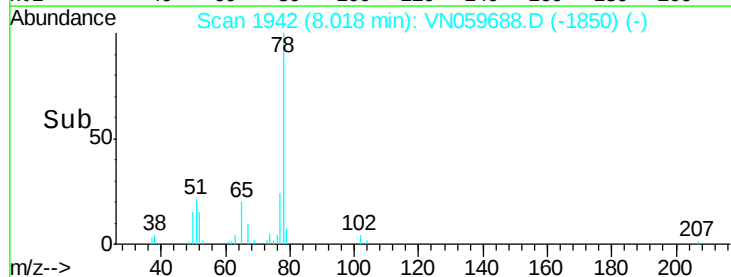
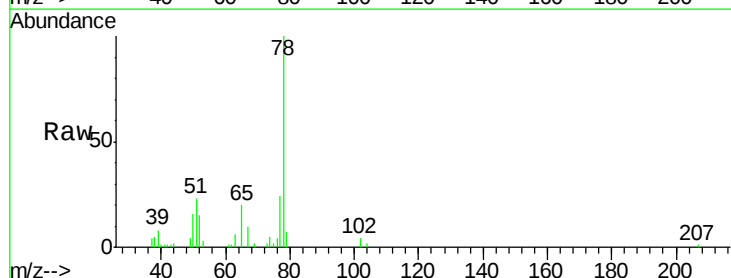
Manual Integrations
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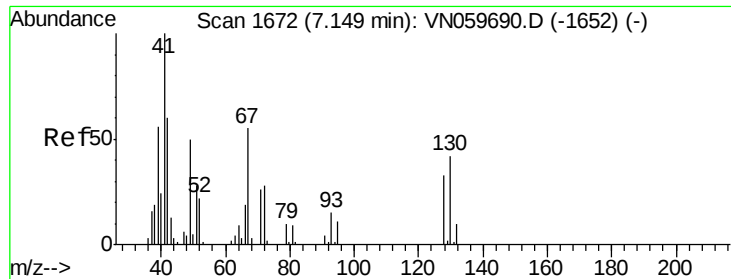
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#40
Benzene
Concen: 4.430 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3





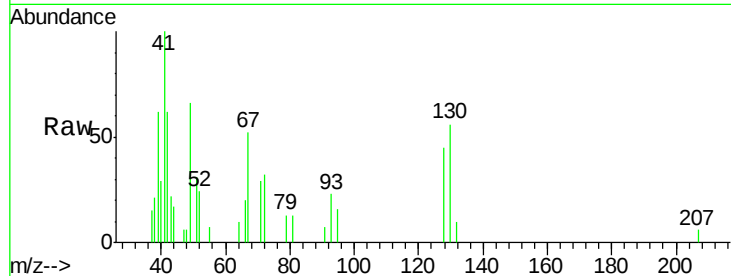
#41
Methacrylonitrile
Concen: 3.904 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	5747
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

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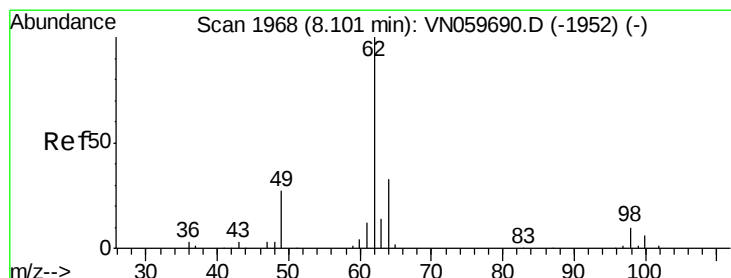
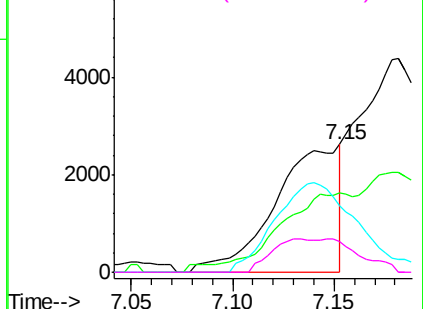
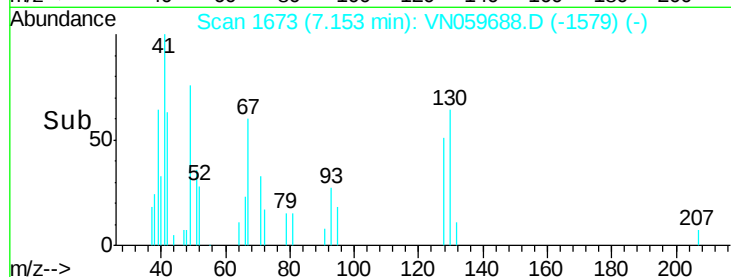


Abundance Ion 41.00 (40.70 to 41.70): VN059688.D (-1579) (-)

Ion 39.00 (38.70 to 39.70): VN059688.D (-1579) (-)

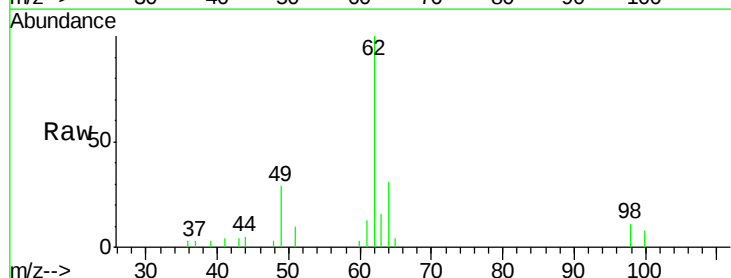
Ion 67.00 (66.70 to 67.70): VN059688.D (-1579) (-)

Ion 52.00 (51.70 to 52.70): VN059688.D (-1579) (-)



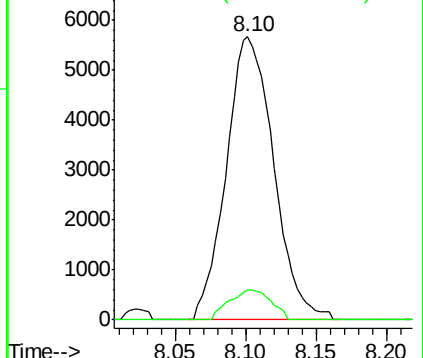
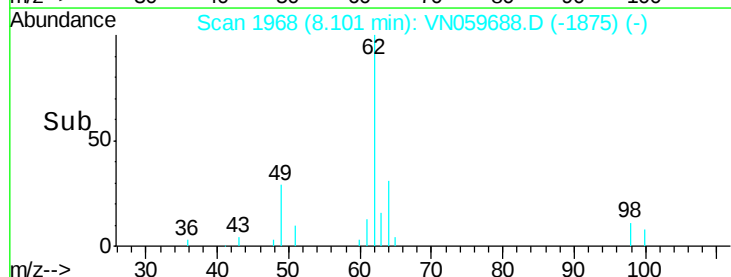
#42
1,2-Dichloroethane
Concen: 3.884 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

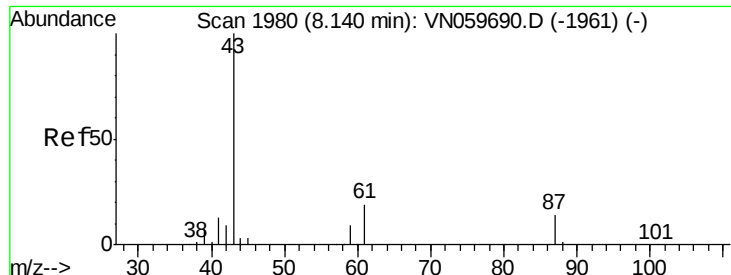
Tgt Ion:	62	Resp:	13340
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	15.8



Abundance Ion 61.90 (61.60 to 62.60): VN059688.D (-1875) (-)

Ion 97.90 (97.60 to 98.60): VN059688.D (-1875) (-)





#43

Isopropyl Acetate

Concen: 3.642 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

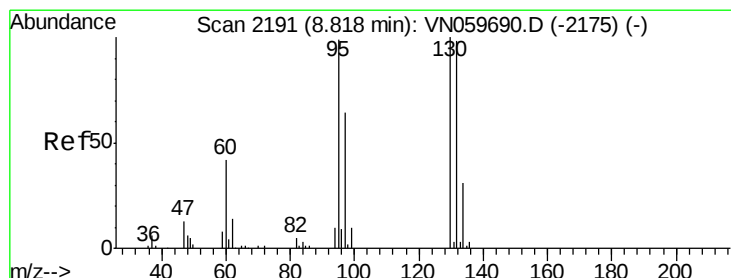
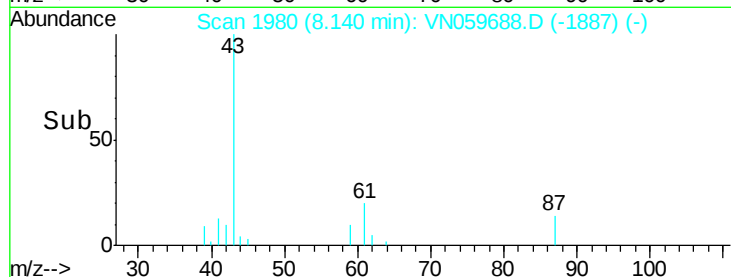
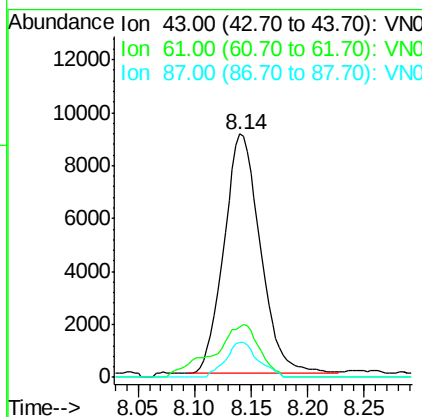
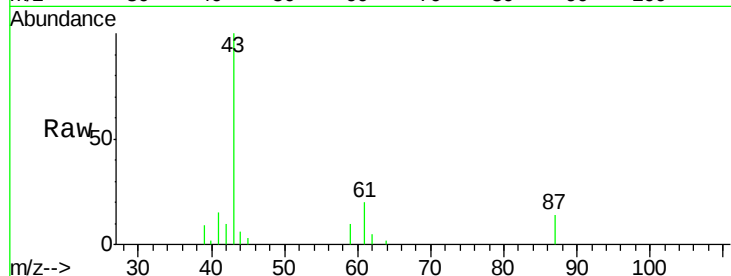
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	20195
Ion	Ratio	Lower	Upper
43	100		
61	27.8	20.2	30.2
87	13.0	9.5	14.3

Manual Integrations
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#44

Trichloroethene

Concen: 4.530 ug/l

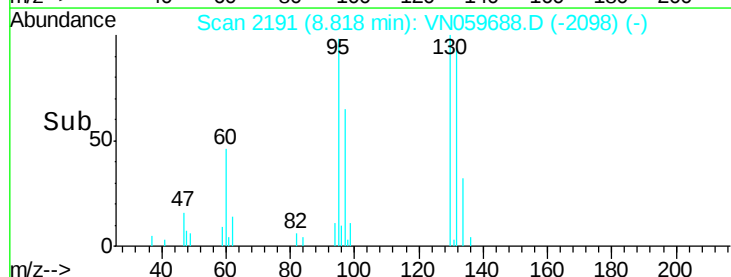
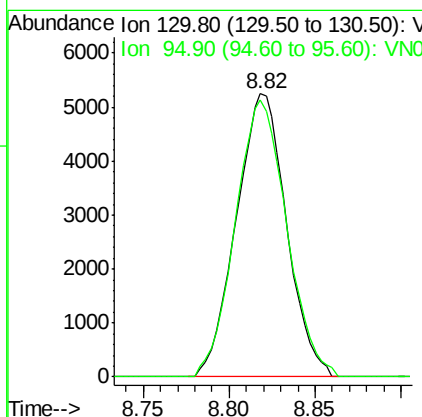
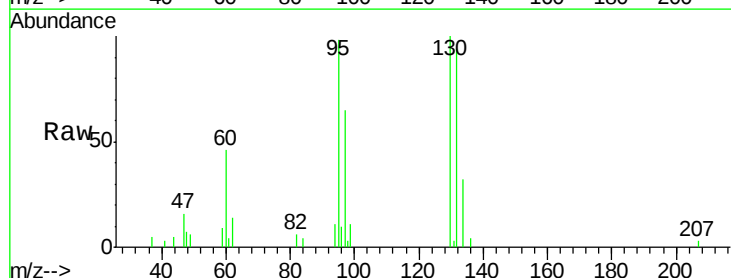
RT: 8.82 min Scan# 2191

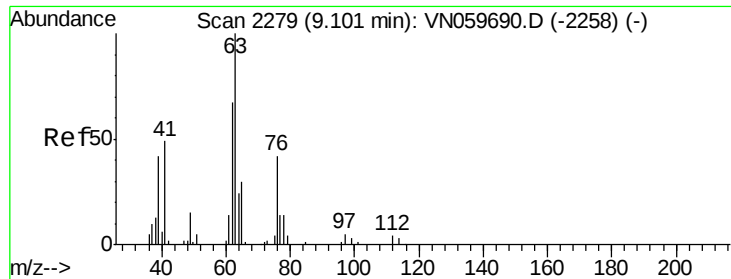
Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion:	130	Resp:	10642
Ion	Ratio	Lower	Upper
130	100		
95	97.7	0.0	207.0





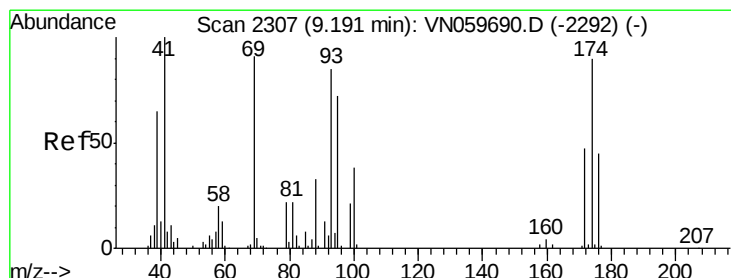
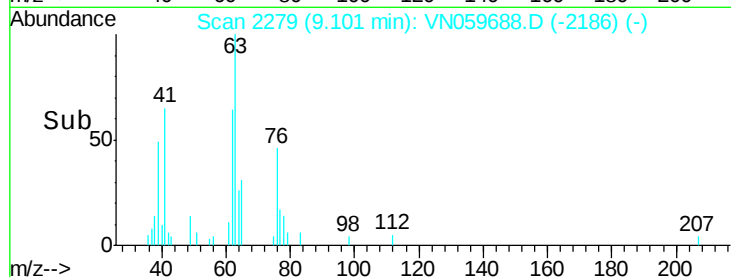
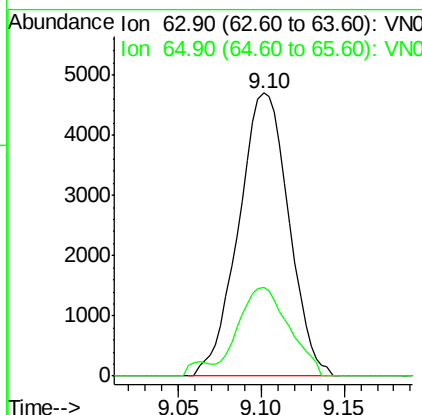
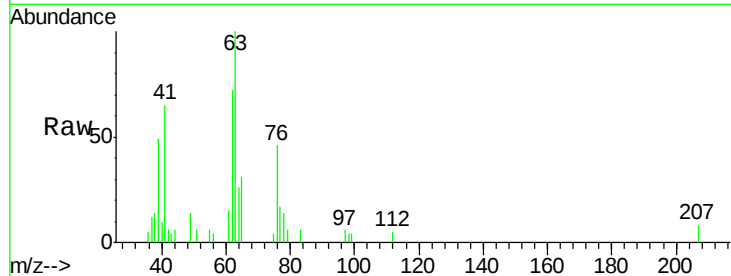
#45
 1,2-Dichloropropane
 Concen: 4.095 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion: 63 Resp: 9917
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.9 37.3

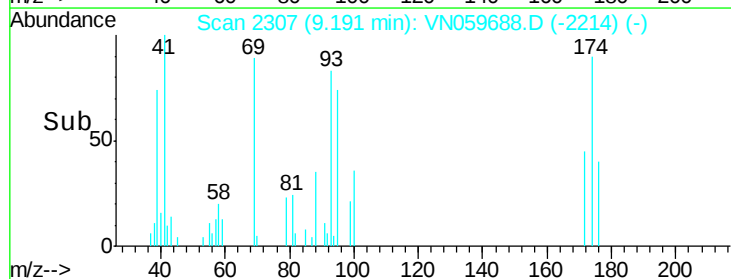
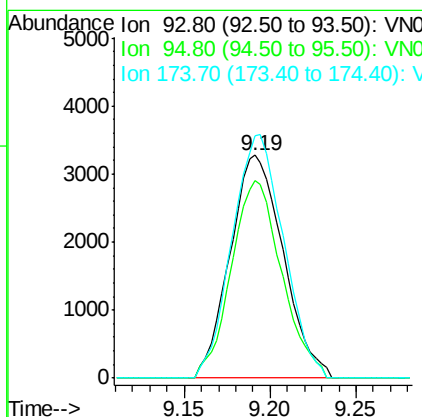
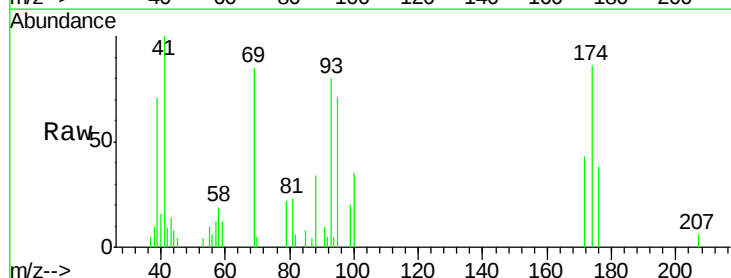
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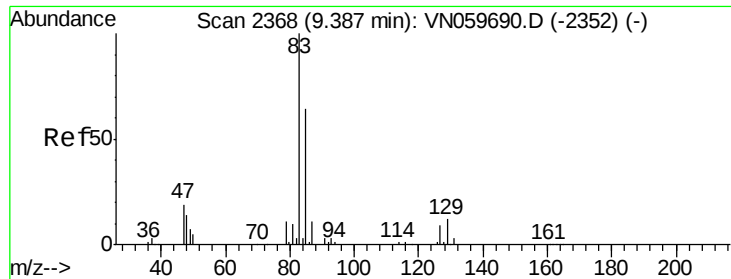
MMDadoda
 1/14/2020 10:59:41 AM



#46
 Dibromomethane
 Concen: 4.436 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion: 93 Resp: 7039
 Ion Ratio Lower Upper
 93 100
 95 83.7 67.0 100.6
 174 105.6 73.4 110.2





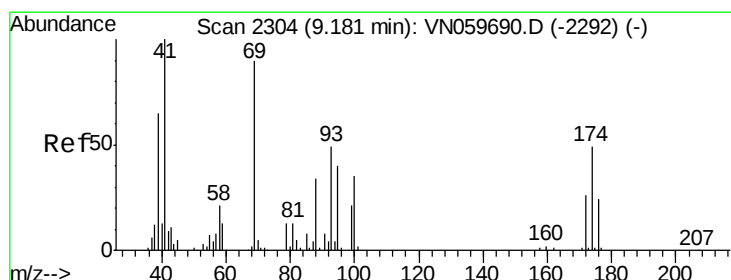
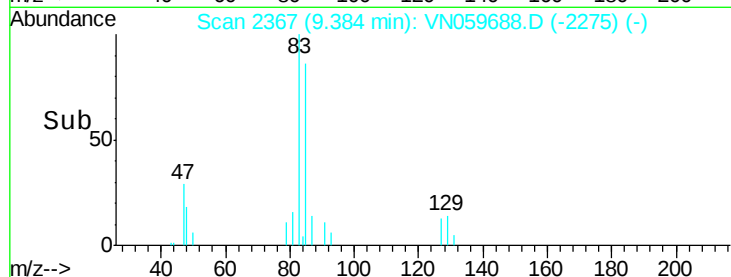
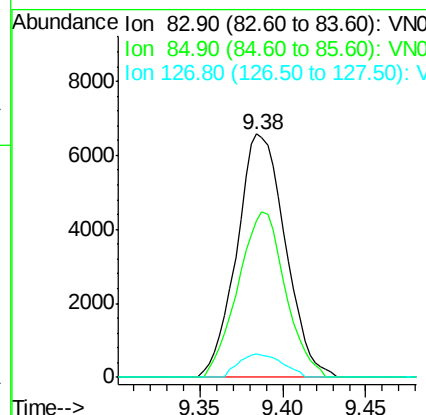
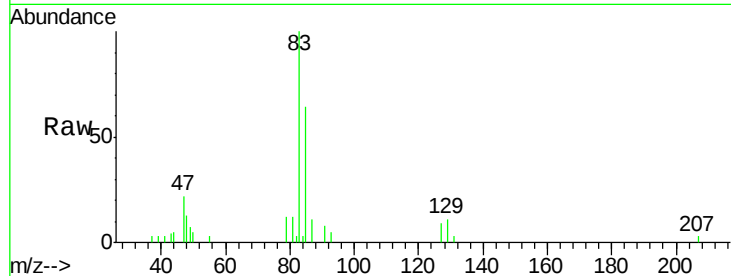
#47
Bromodichloromethane
Concen: 4.234 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	13394
Ion Ratio	100	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	9.5	6.6	9.8

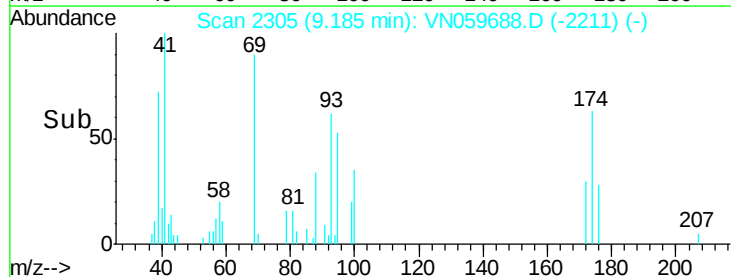
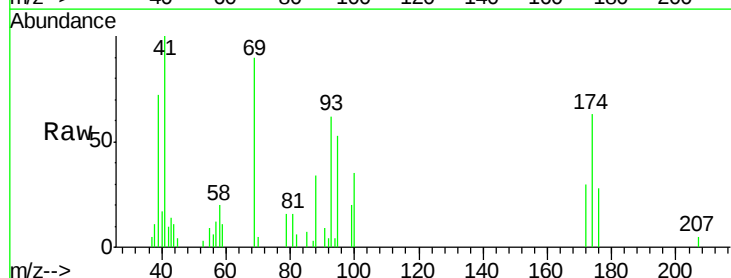
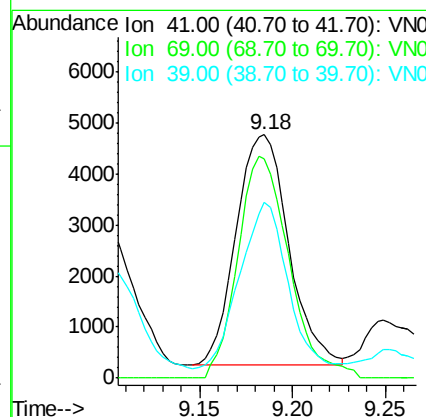
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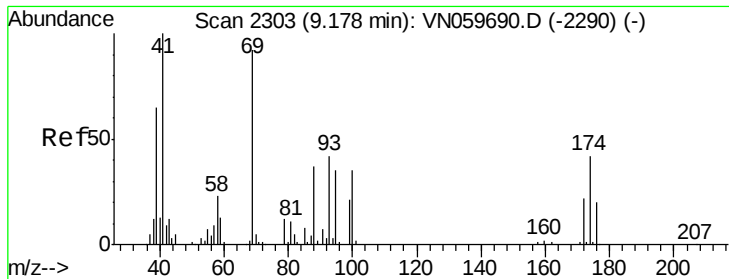
MMDadoda
1/14/2020 10:59:41 AM



#48
Methyl methacrylate
Concen: 3.539 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	41	Resp	8904
Ion Ratio	100	Lower	Upper
41	100		
69	94.0	64.4	96.6
39	65.5	51.3	76.9





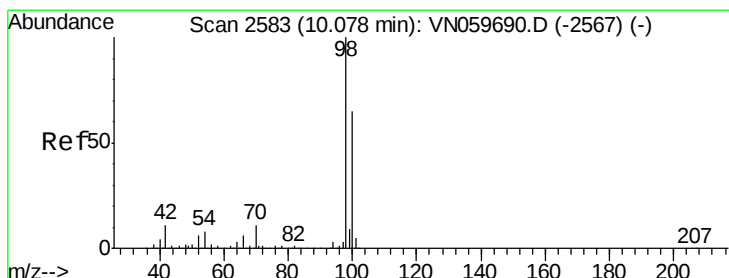
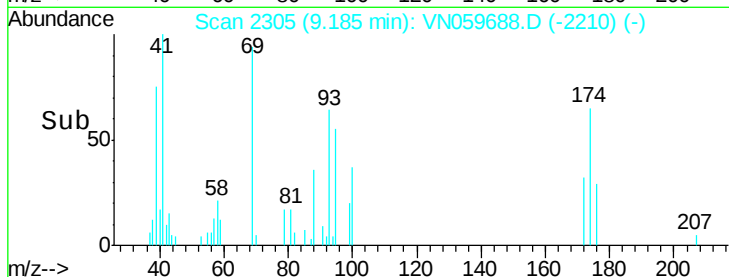
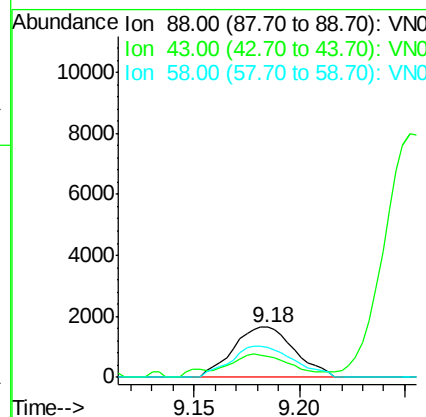
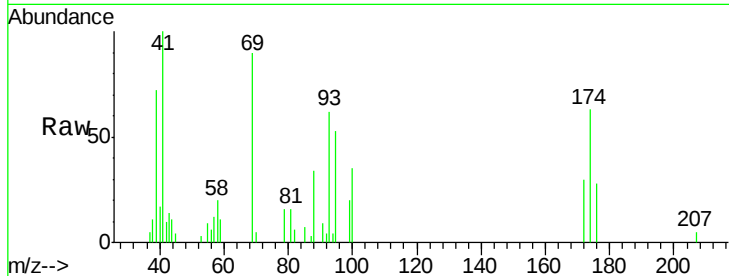
#49
1,4-Dioxane
Concen: 91.828 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.01 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.1	29.7	44.5#
58	63.7	56.6	85.0

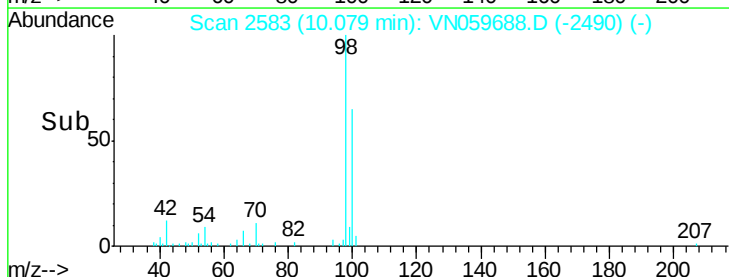
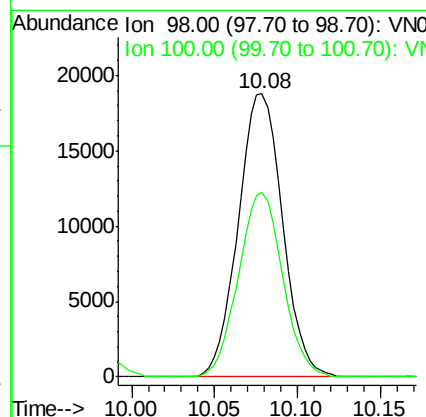
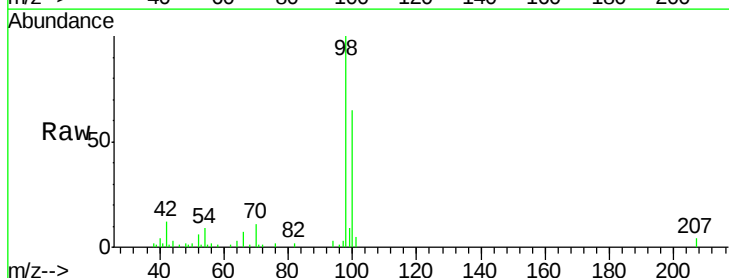
Manual Integrations
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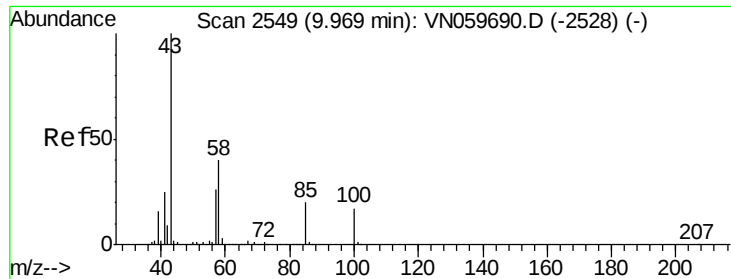
MMDadoda
1/14/2020 10:59:41 AM



#50
Toluene-d8
Concen: 4.785 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 18.624 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 61580

Ion Ratio Lower Upper

43 100

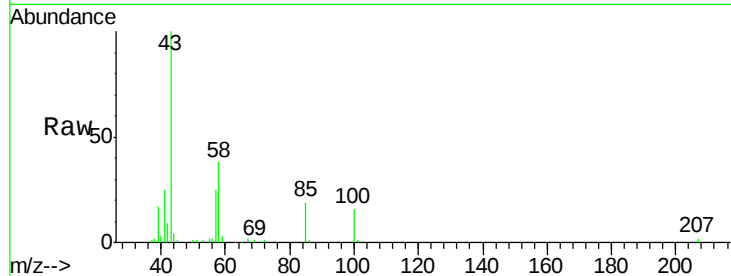
58 38.3 29.8 44.8

Manual Integrations

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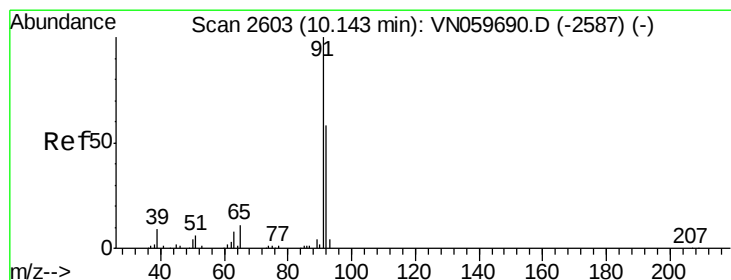
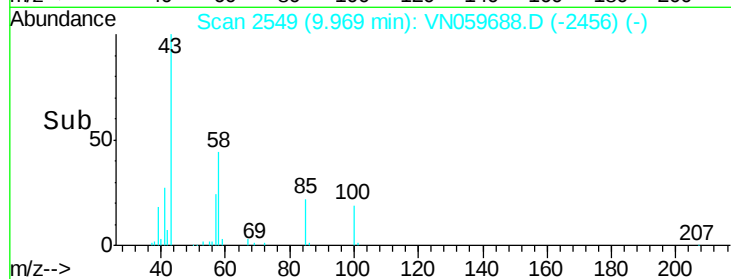
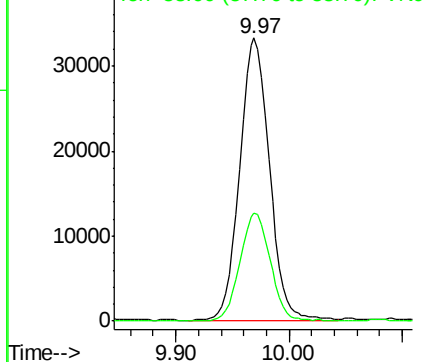
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.467 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN059688.D

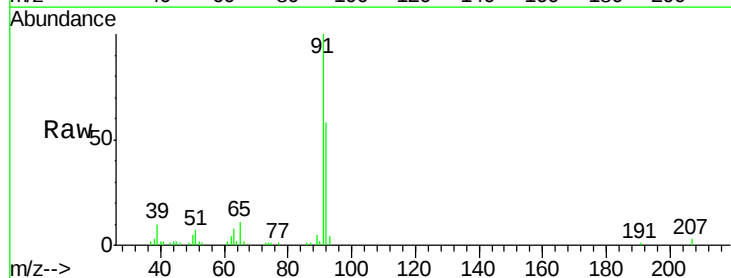
Acq: 13 Jan 2020 14:06

Tgt Ion: 92 Resp: 24617

Ion Ratio Lower Upper

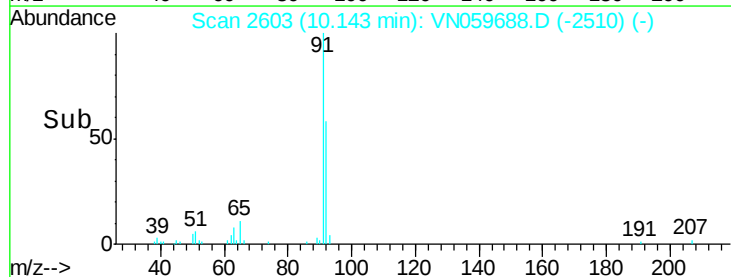
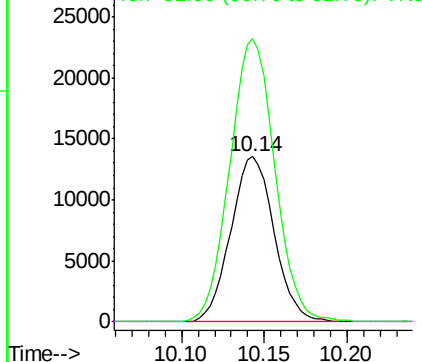
92 100

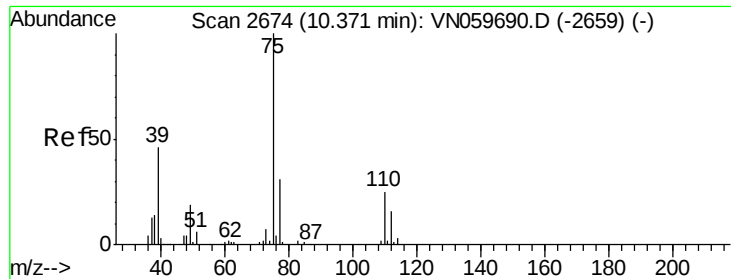
91 177.8 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





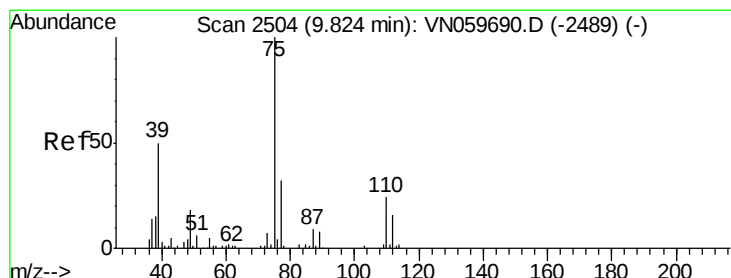
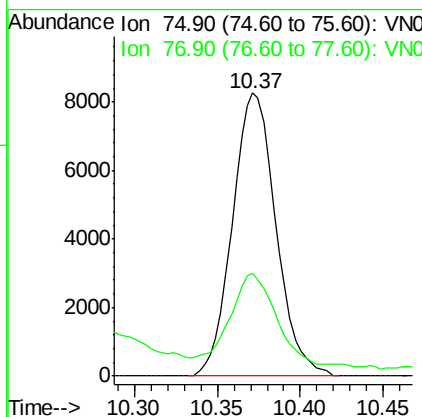
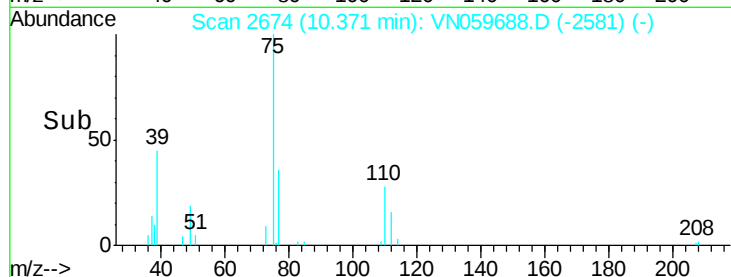
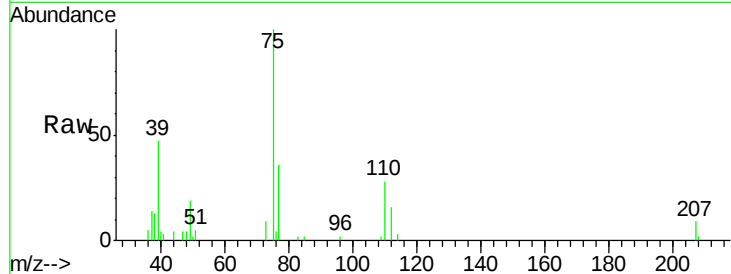
#53
t-1,3-Dichloropropene
Concen: 4.118 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 15066
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.2

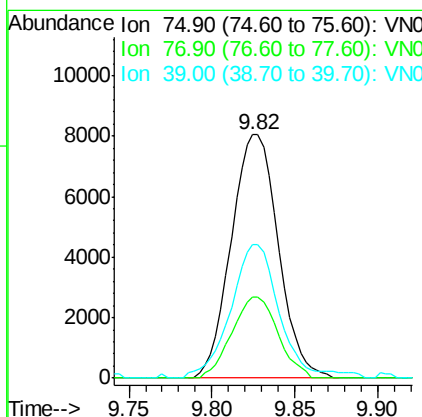
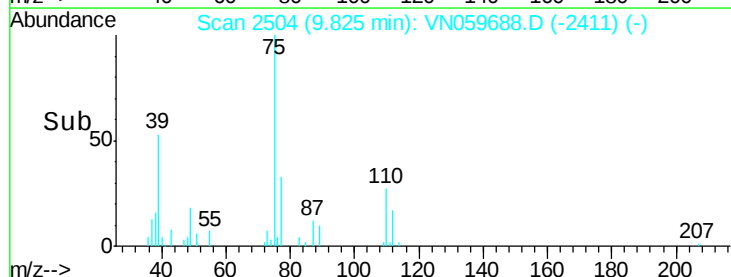
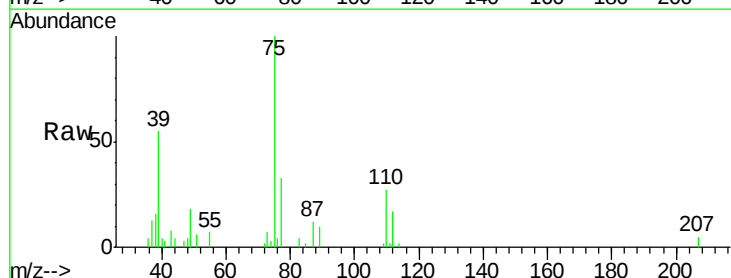
Manual Integrations
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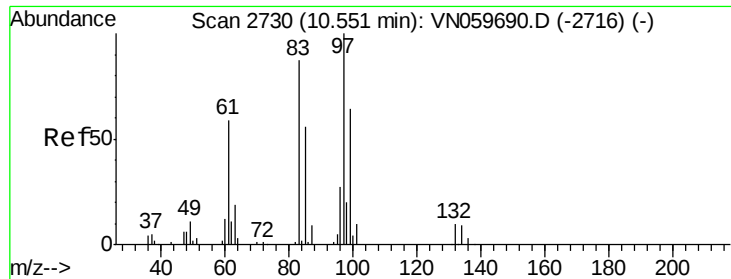
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#54
cis-1,3-Dichloropropene
Concen: 4.131 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 75 Resp: 15887
Ion Ratio Lower Upper
75 100
77 33.3 25.1 37.7
39 52.9 46.1 69.1





#55

1,1,2-Trichloroethane

Concen: 4.568 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

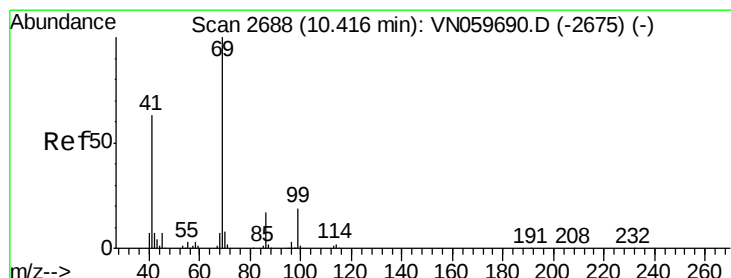
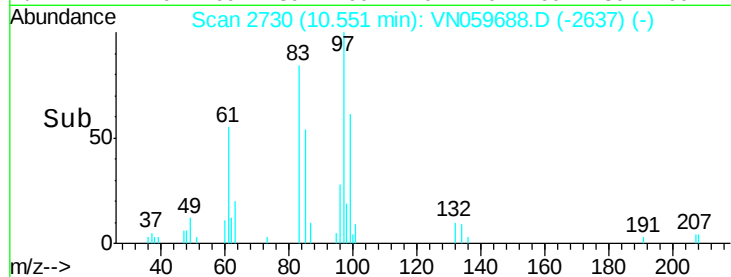
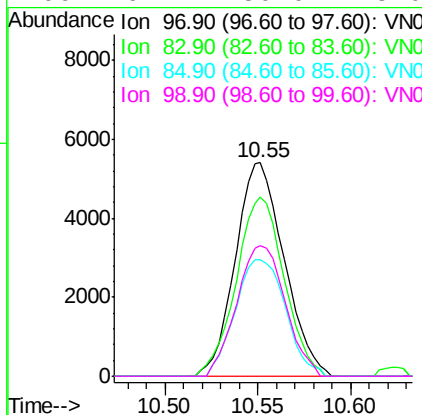
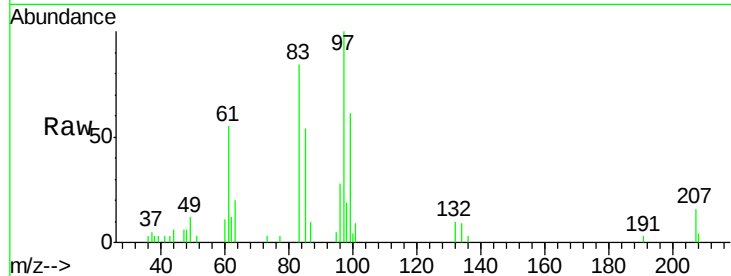
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	9877
Ion	Ratio	Lower	Upper
97	100		
83	83.7	71.3	106.9
85	54.3	45.8	68.8
99	61.2	50.0	75.0

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1/14/2020 10:59:41 AM



#56

Ethyl methacrylate

Concen: 4.595 ug/l

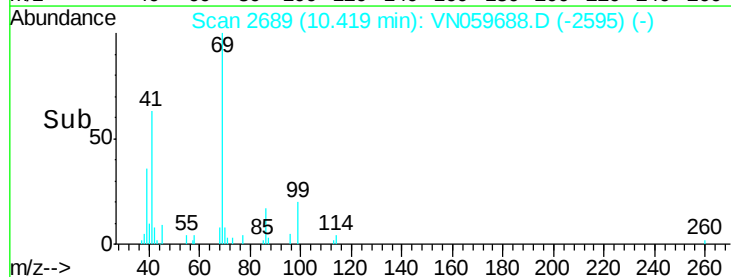
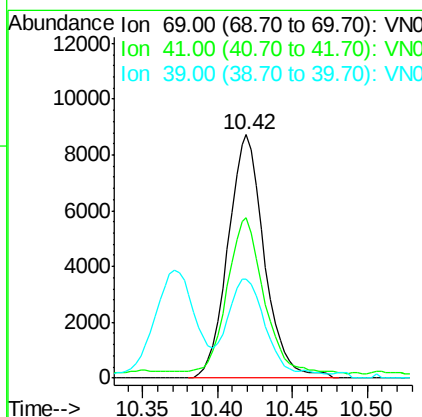
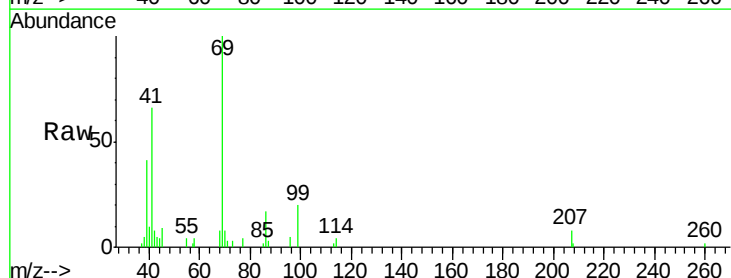
RT: 10.42 min Scan# 2689

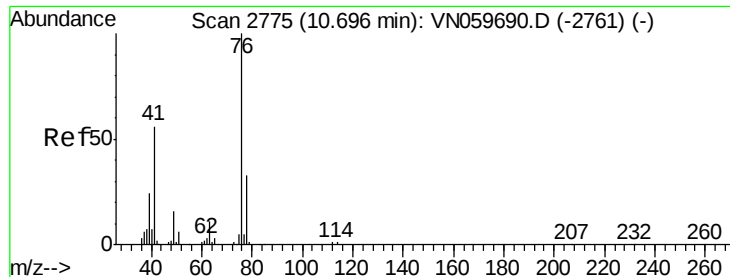
Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion:	69	Resp:	14750
Ion	Ratio	Lower	Upper
69	100		
41	64.3	57.1	85.7
39	41.1	34.7	52.1





#57

1,3-Dichloropropane

Concen: 4.123 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 76 Resp: 15525

Ion Ratio Lower Upper

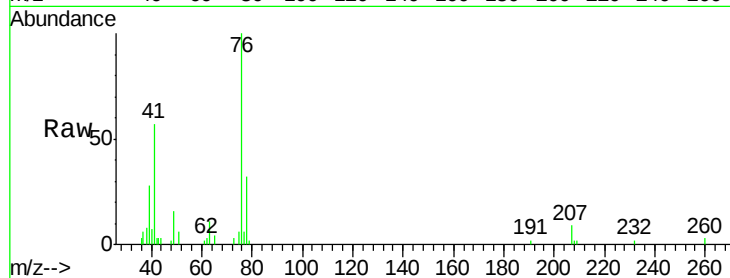
76 100

78 33.7 25.8 38.8

Manual Integrations
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MMDadoda

1/14/2020 10:59:41 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10000

8000

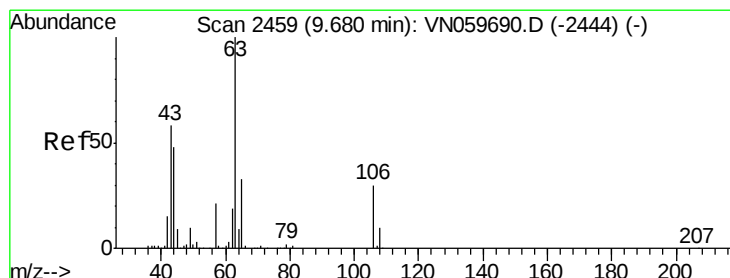
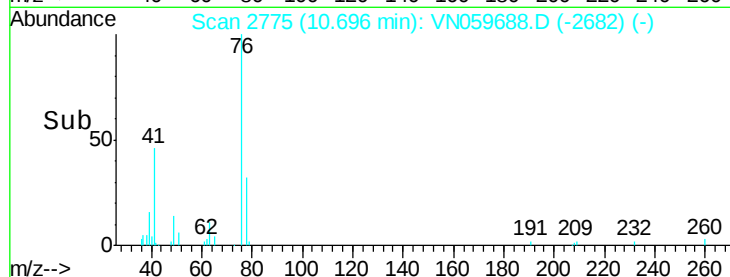
6000

4000

2000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 18.819 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VN059688.D

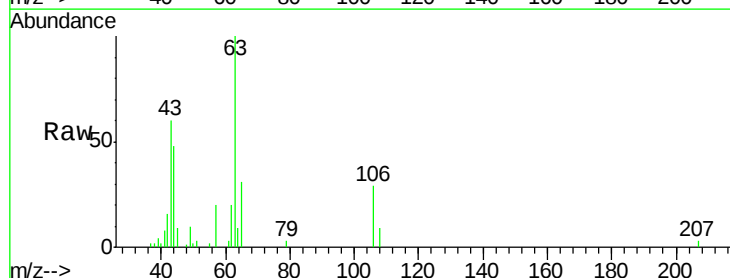
Acq: 13 Jan 2020 14:06

Tgt Ion: 63 Resp: 19214

Ion Ratio Lower Upper

63 100

106 28.8 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

12000

10000

8000

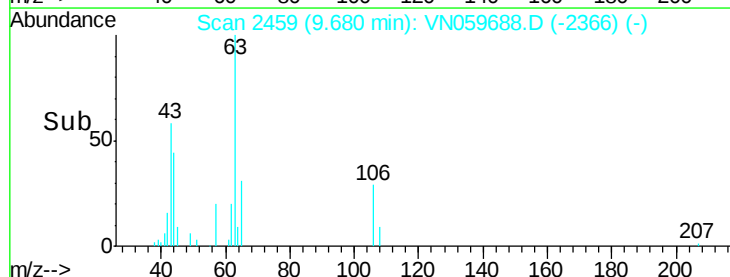
6000

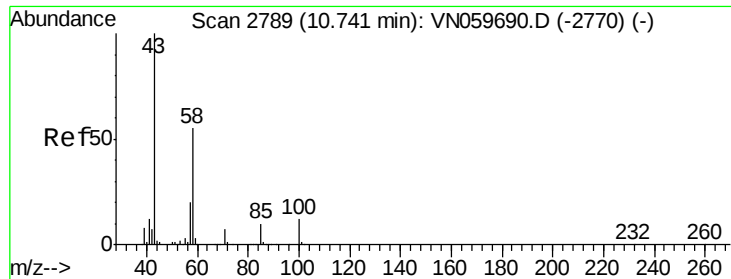
4000

2000

0

Time-->





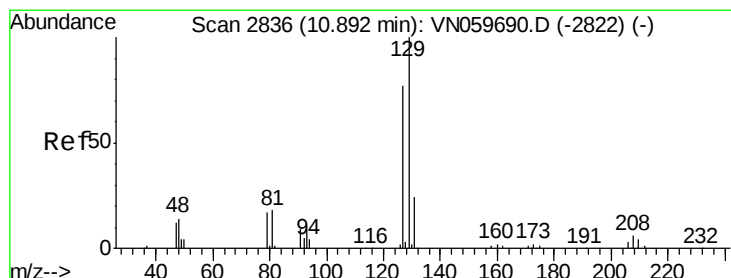
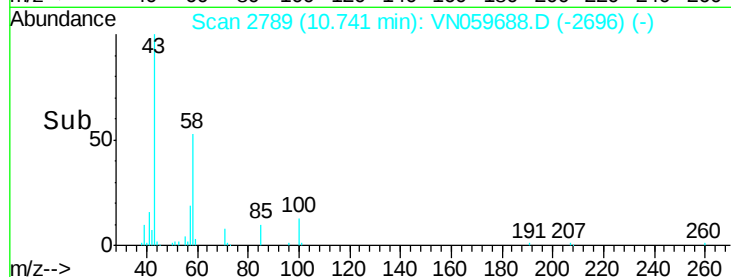
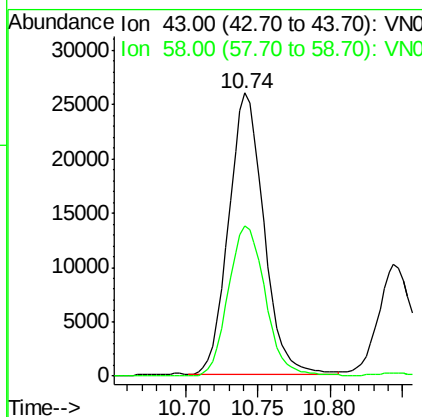
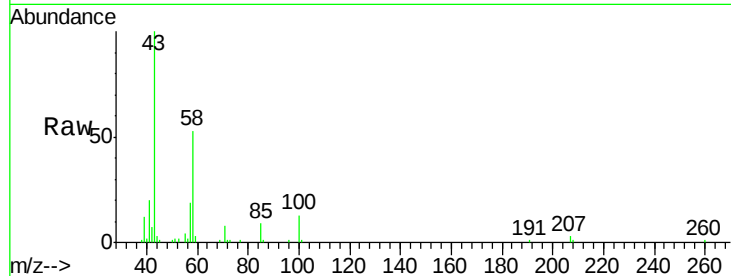
#59
2-Hexanone
Concen: 16.732 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 43603
Ion Ratio Lower Upper
43 100
58 56.4 25.8 77.3

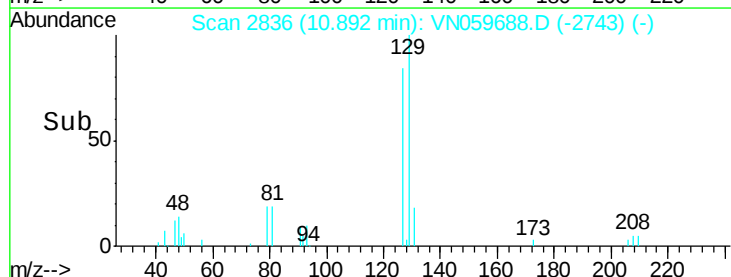
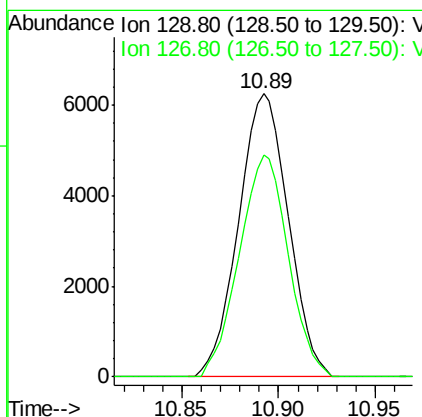
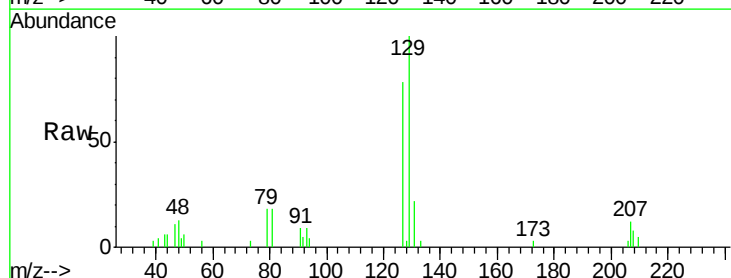
Manual Integrations
APPROVED

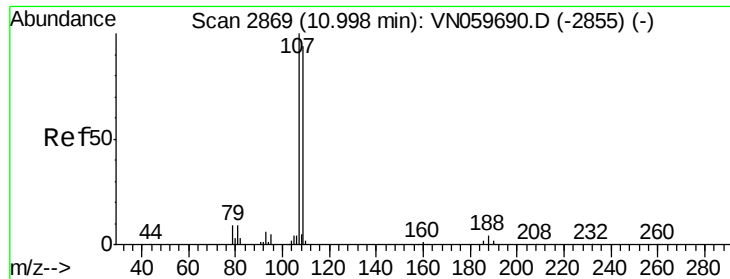
MMDadoda
1/14/2020 10:59:41 AM



#60
Dibromochloromethane
Concen: 4.733 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 129 Resp: 11171
Ion Ratio Lower Upper
129 100
127 77.1 38.5 115.5





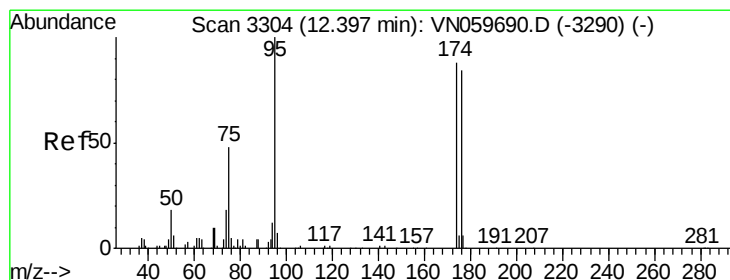
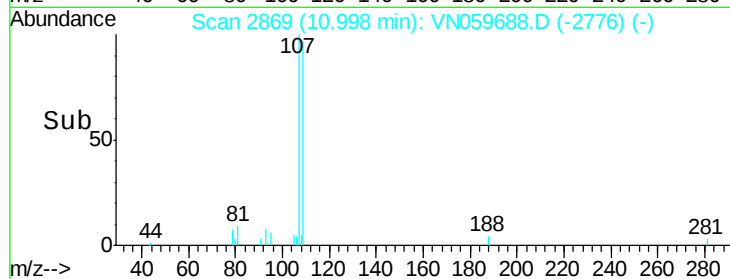
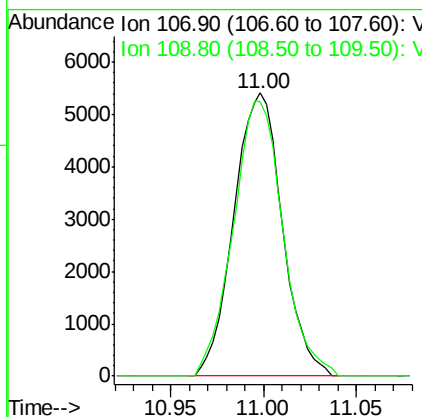
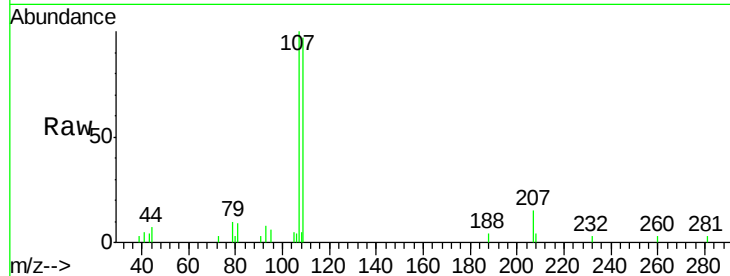
#61
 1,2-Dibromoethane
 Concen: 4.297 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 107 Resp: 9855
 Ion Ratio Lower Upper
 107 100
 109 99.7 76.6 115.0

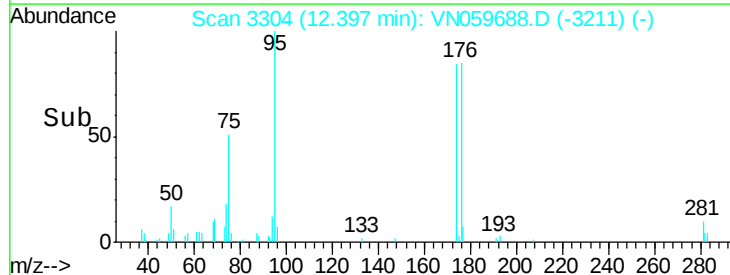
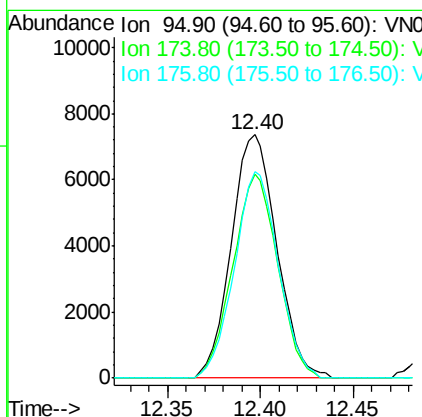
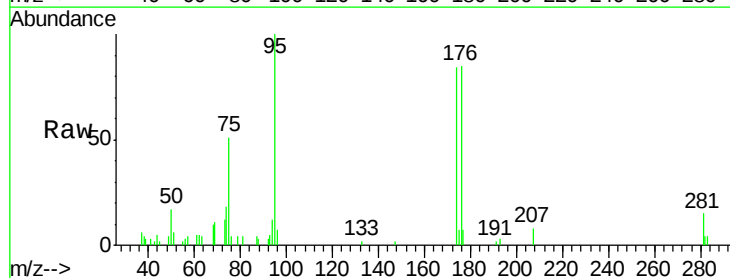
Manual Integrations
 APPROVED

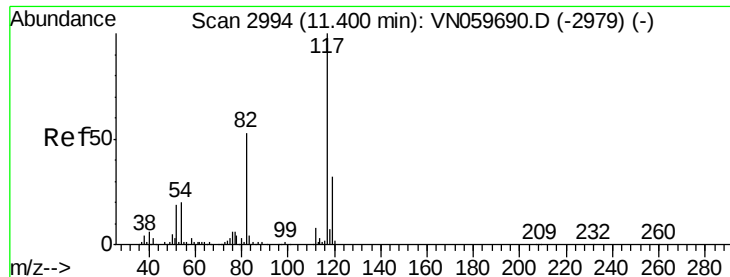
MMDadoda
 1/14/2020 10:59:41 AM



#62
 4-Bromofluorobenzene
 Concen: 4.712 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion: 95 Resp: 12534
 Ion Ratio Lower Upper
 95 100
 174 82.4 0.0 151.4
 176 82.0 0.0 146.0





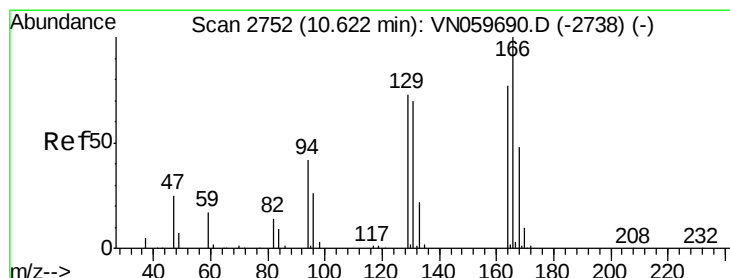
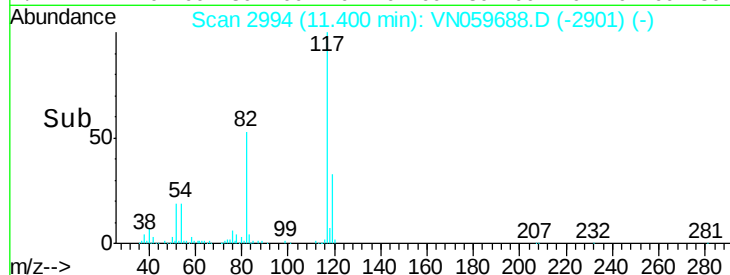
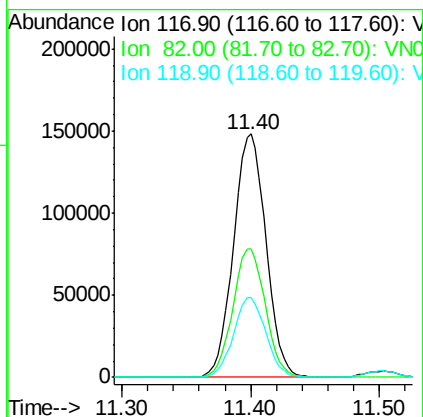
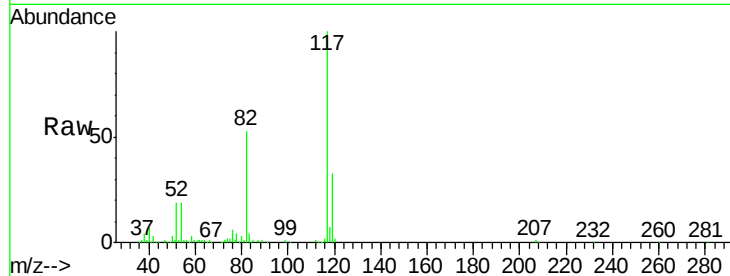
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	45.9	68.9
119	32.6	25.5	38.3

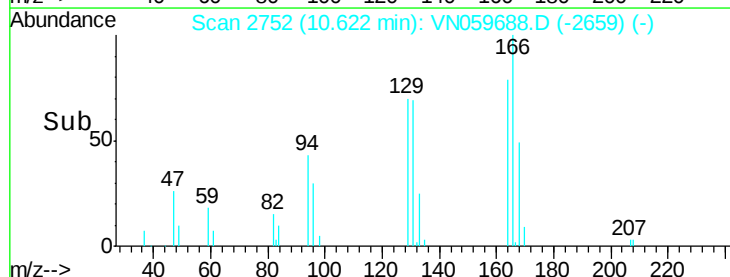
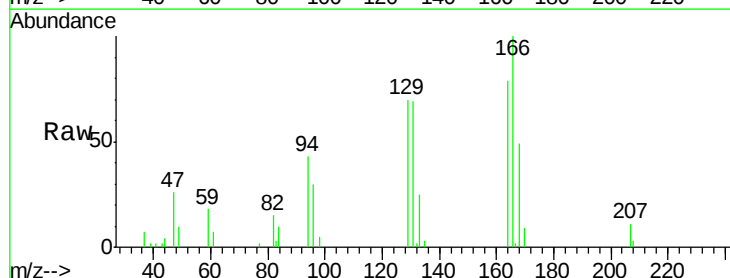
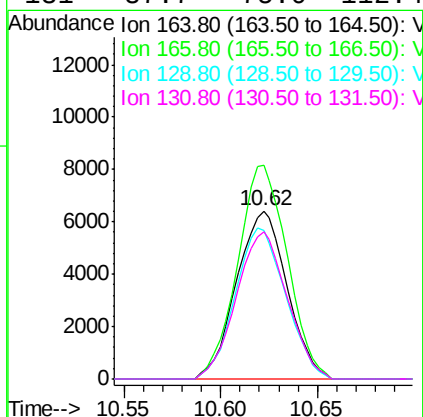
Manual Integrations
APPROVED

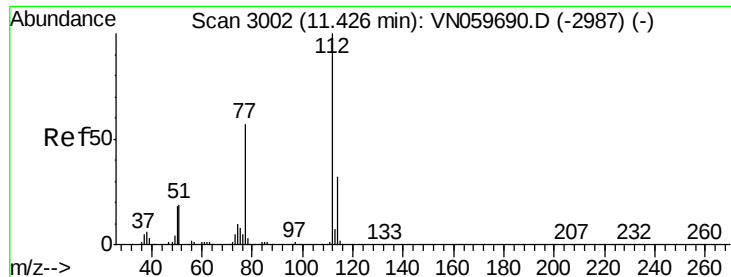
MMDadoda
1/14/2020 10:59:41 AM



#64
Tetrachloroethene
Concen: 4.813 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.3	101.4	152.0
129	88.5	80.2	120.4
131	87.7	75.0	112.4





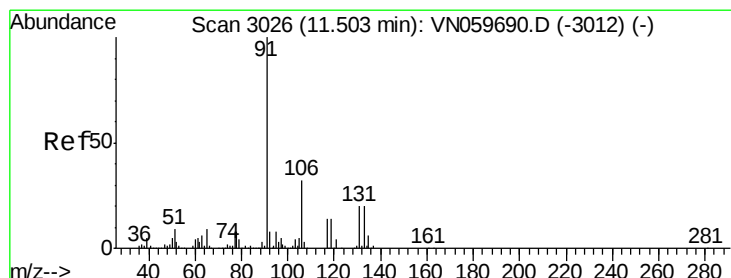
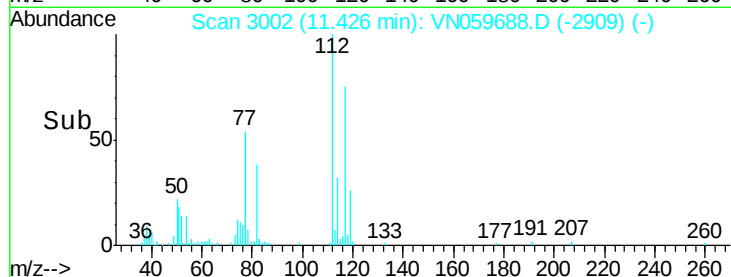
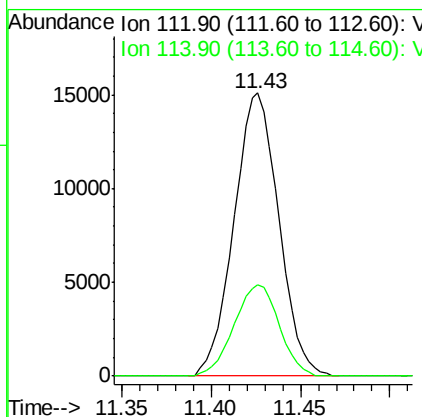
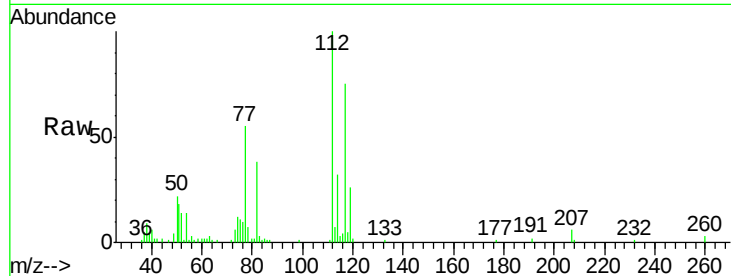
#65
Chlorobenzene
Concen: 4.697 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 26354
Ion Ratio Lower Upper
112 100
114 32.1 25.8 38.8

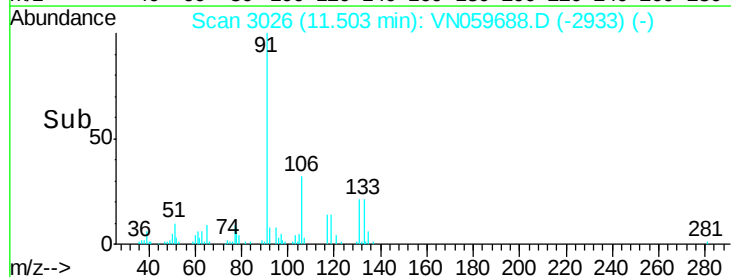
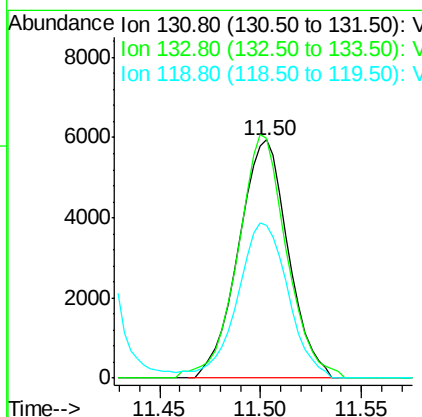
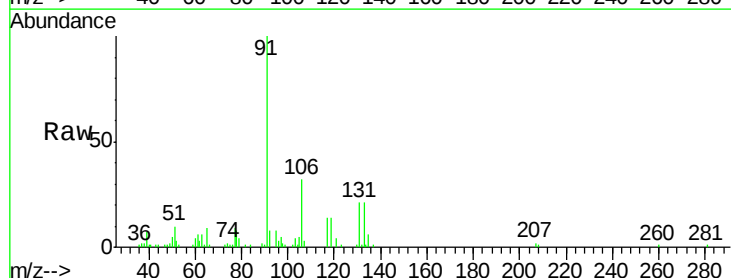
Manual Integrations
APPROVED

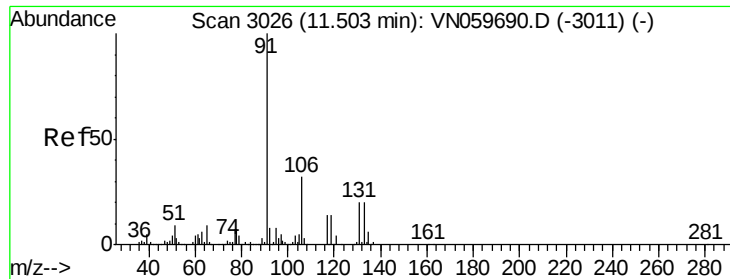
MMDadoda
1/14/2020 10:59:41 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.796 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion:131 Resp: 10222
Ion Ratio Lower Upper
131 100
133 100.6 47.4 142.2
119 65.8 33.1 99.3





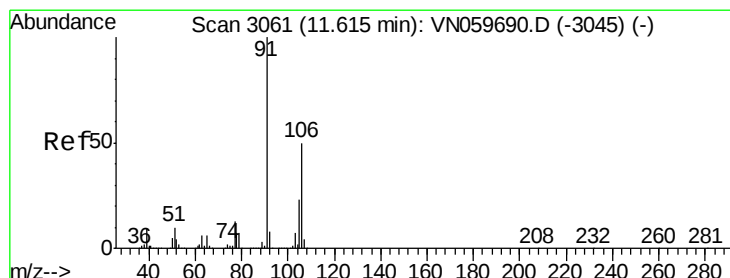
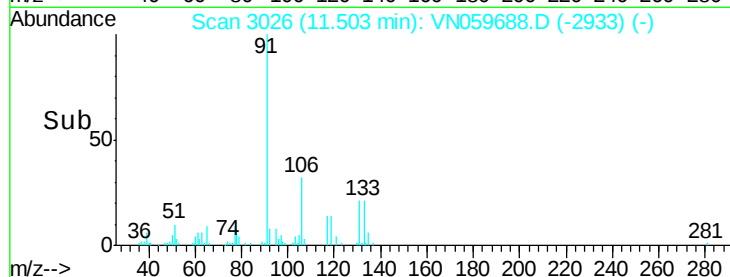
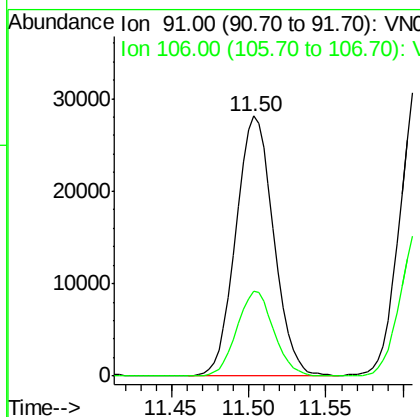
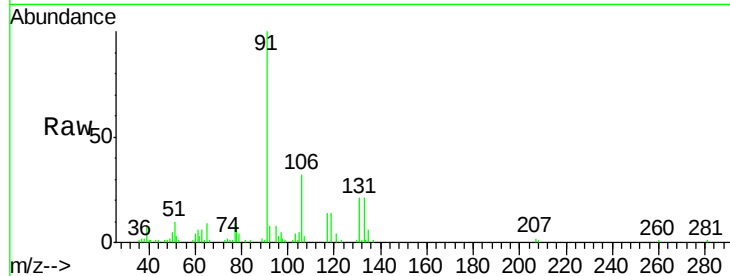
#67
Ethyl Benzene
Concen: 4.715 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 47754
Ion Ratio Lower Upper
91 100
106 32.4 24.1 36.1

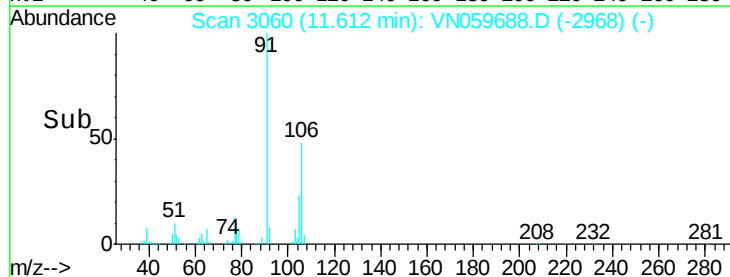
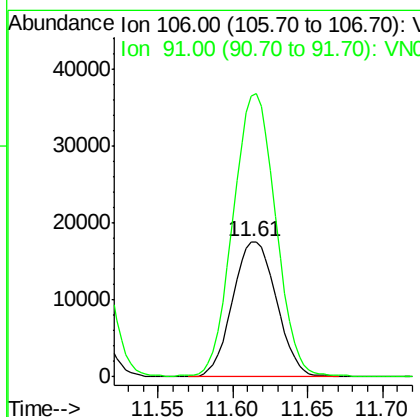
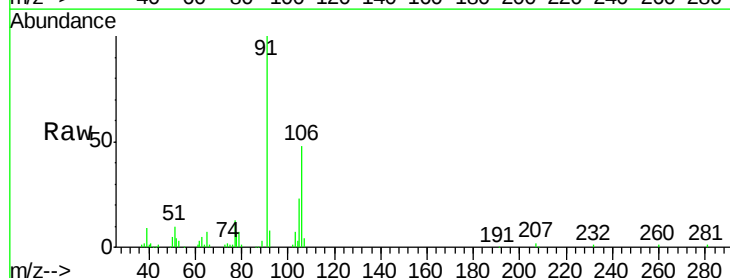
Manual Integrations
APPROVED

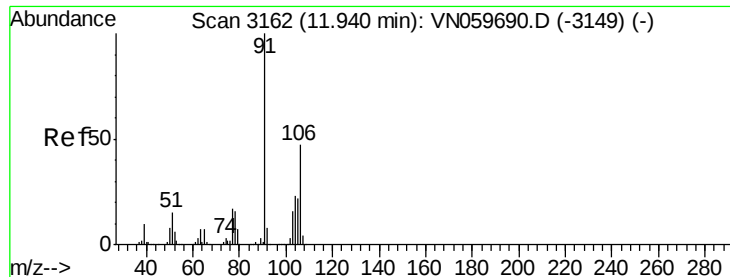
MMDadoda
1/14/2020 10:59:41 AM



#68
m/p-Xylenes
Concen: 9.622 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion: 106 Resp: 35984
Ion Ratio Lower Upper
106 100
91 204.1 167.9 251.9





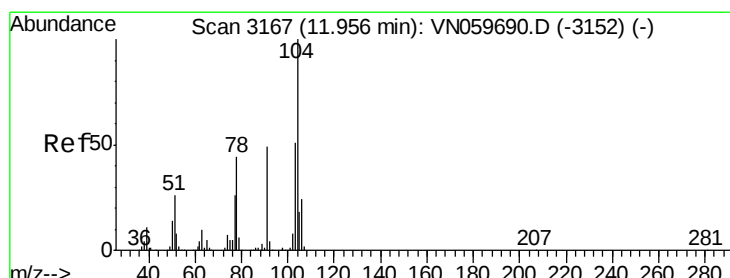
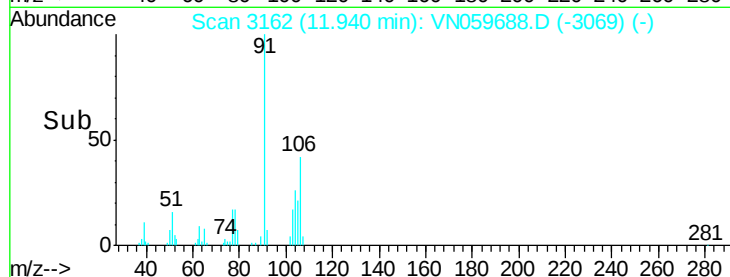
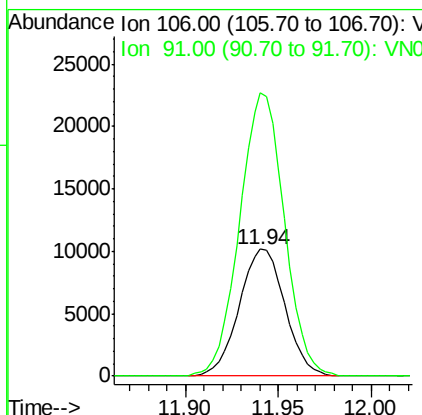
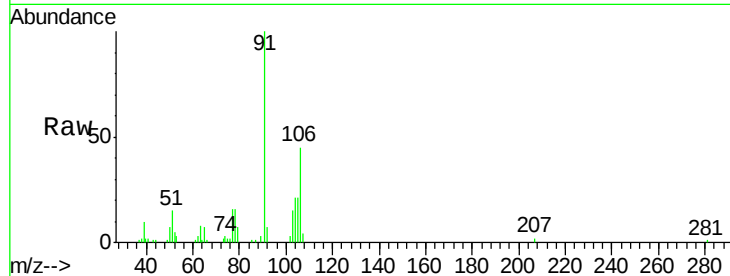
#69
o-Xylene
Concen: 4.923 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	216.9	110.3	330.9	

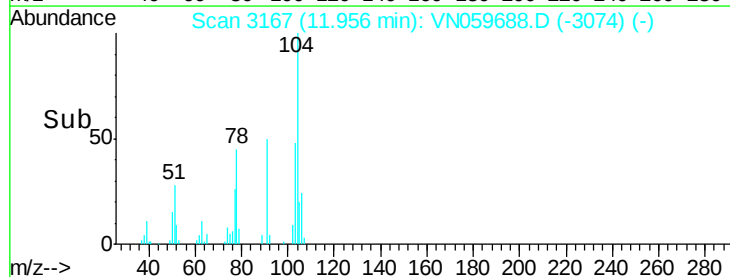
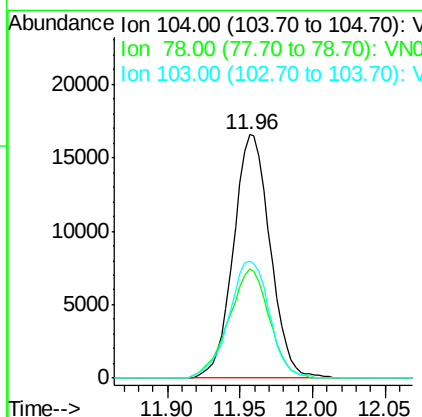
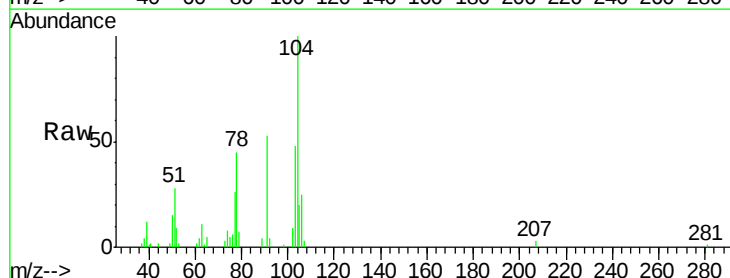
Manual Integrations
APPROVED

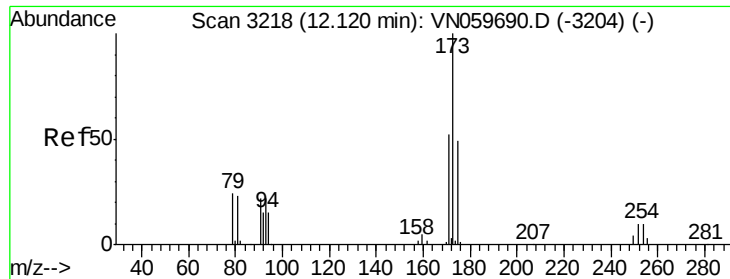
MMDadoda
1/14/2020 10:59:41 AM



#70
Styrene
Concen: 5.113 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	49.5	42.4	63.6	
103	52.9	43.9	65.9	





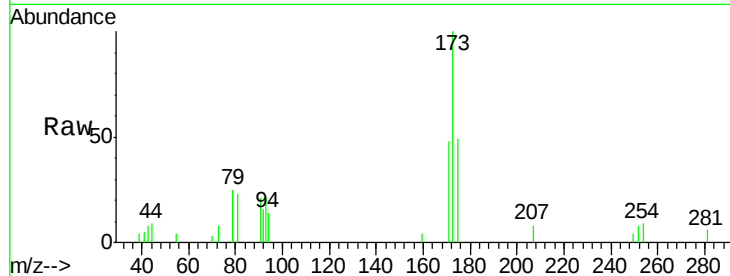
#71
Bromoform
Concen: 4.933 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
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MMDadoda
1/14/2020 10:59:41 AM

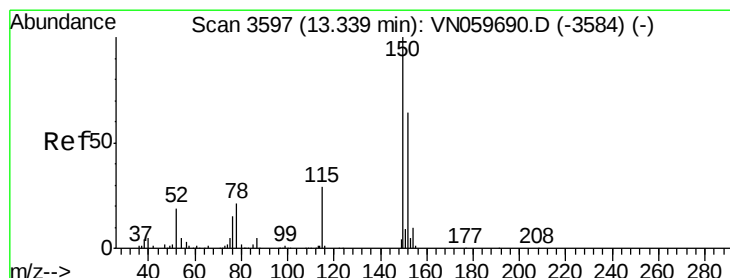
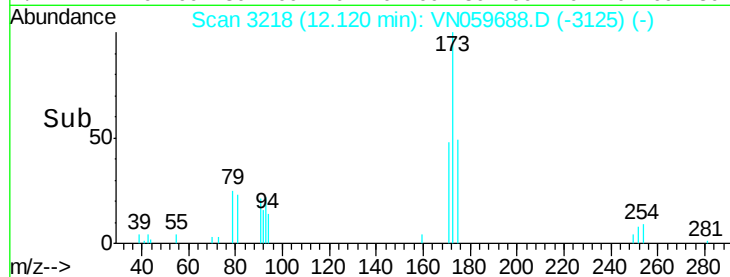
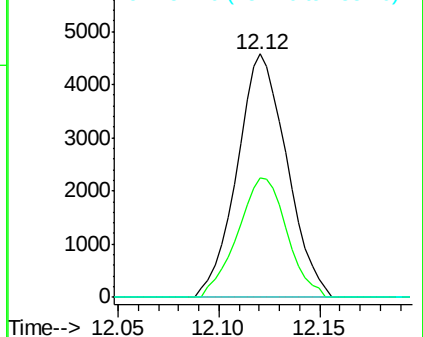


Abundance

Ion 172.70 (172.40 to 173.40): V

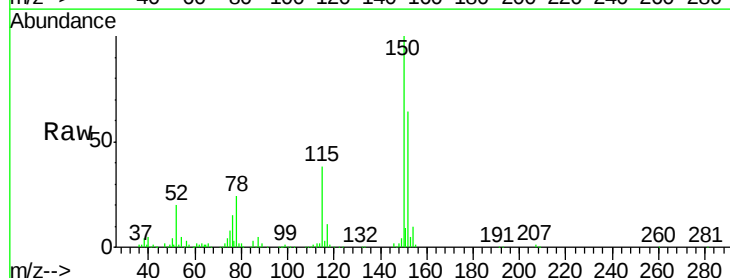
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.5	30.3	90.9
150	158.3	0.0	345.2

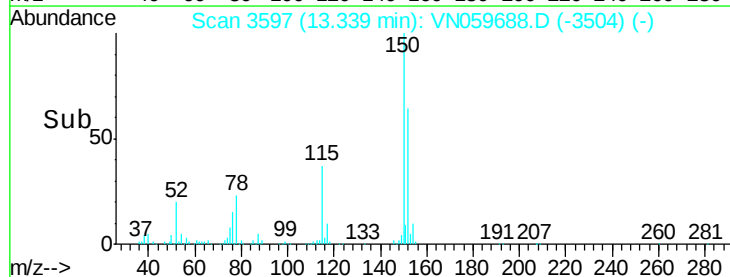
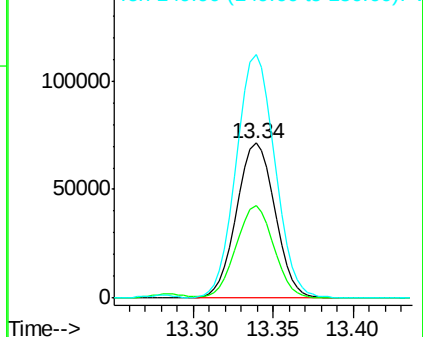


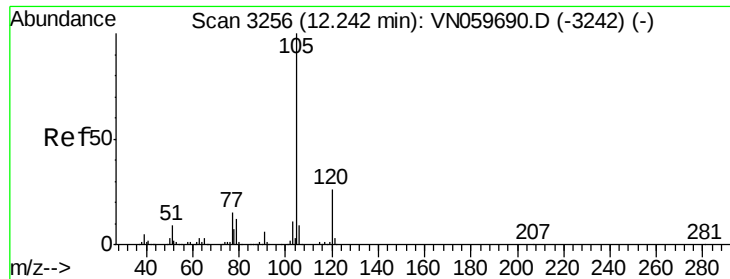
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





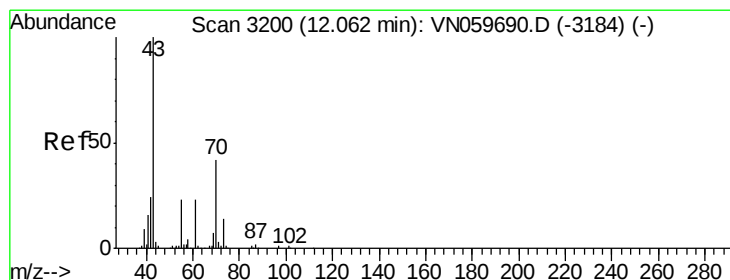
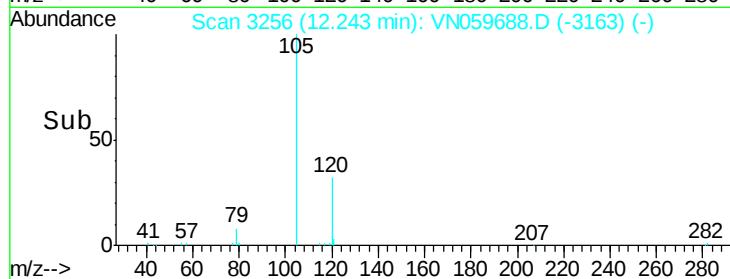
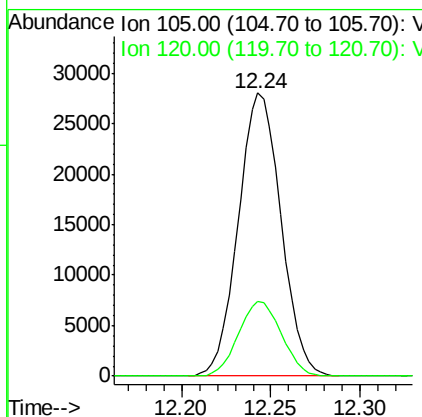
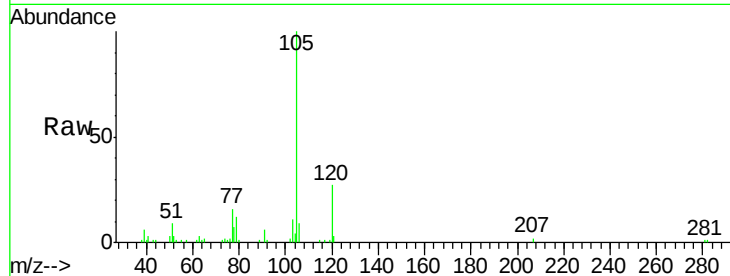
#73
Isopropylbenzene
Concen: 5.076 ug/l
RT: 12.24 min Scan# 3256
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.5

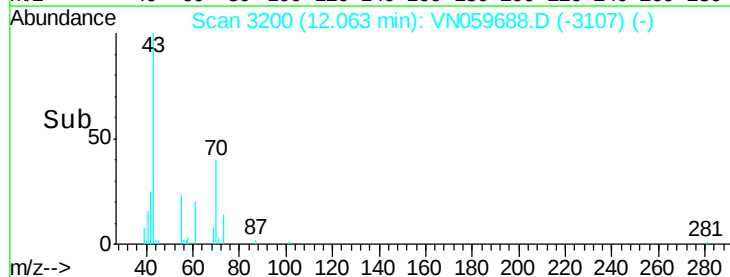
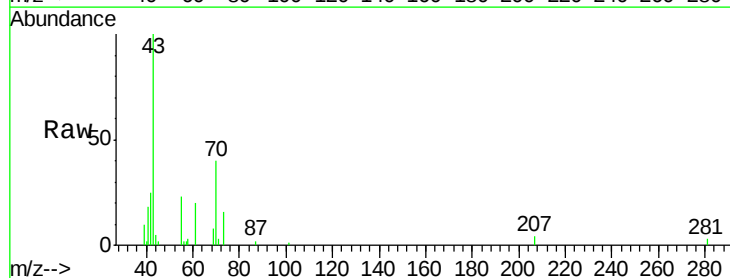
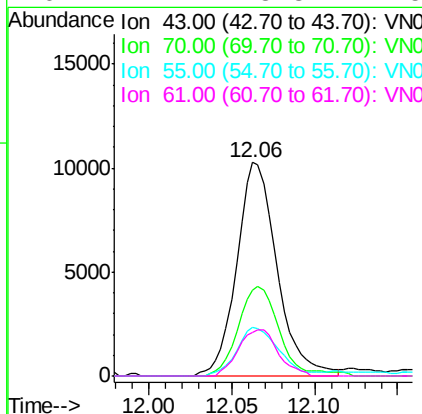
Manual Integrations
APPROVED

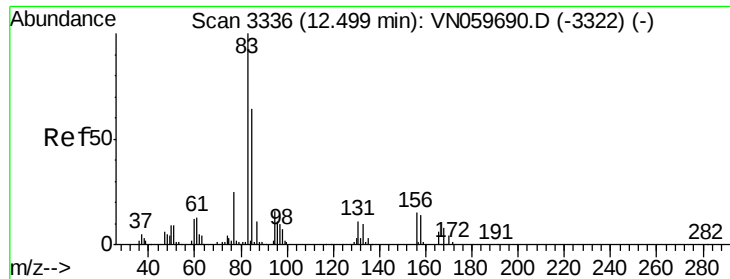
MMDadoda
1/14/2020 10:59:41 AM



#74
N-ethyl acetate
Concen: 4.125 ug/l
RT: 12.06 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
43	100		
70	42.7	31.3	46.9
55	24.0	19.8	29.6
61	21.2	18.3	27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 4.667 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

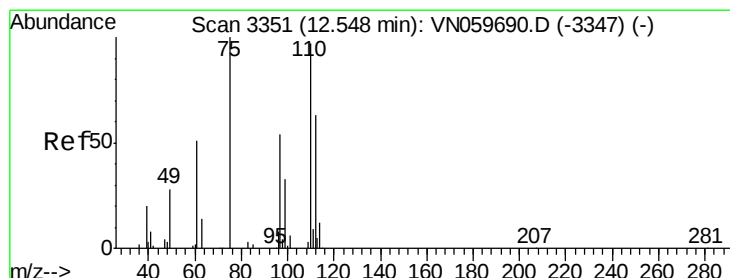
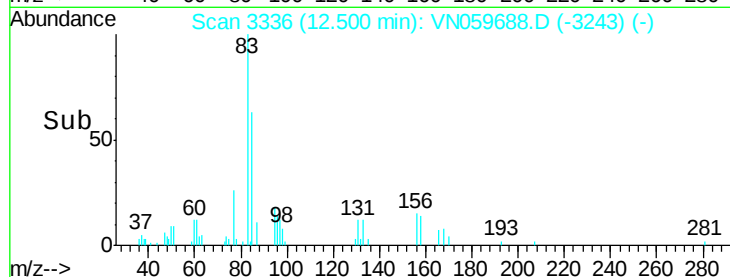
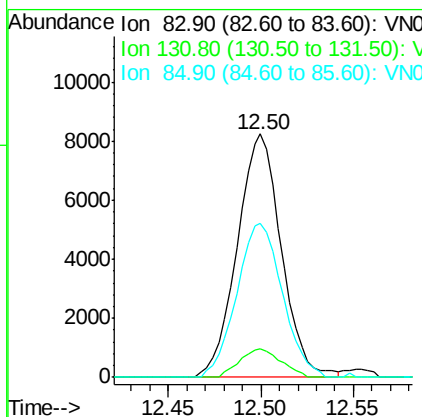
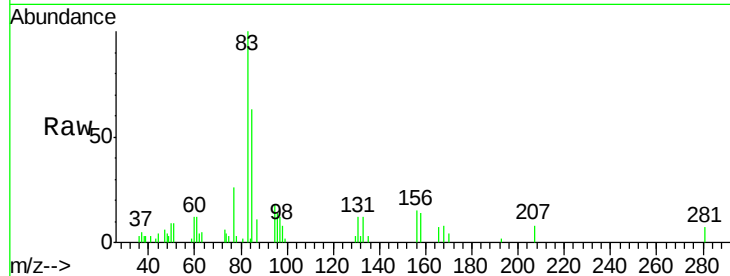
ClientSampled :

VSTDIC005

Tot Ion:	83	Resp:	13625
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.0	14.9
85	65.6	31.9	95.5

Manual Integrations
APPROVED

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1/14/2020 10:59:41 AM



#76

1,2,3-Trichloropropane

Concen: 3.453 ug/l m

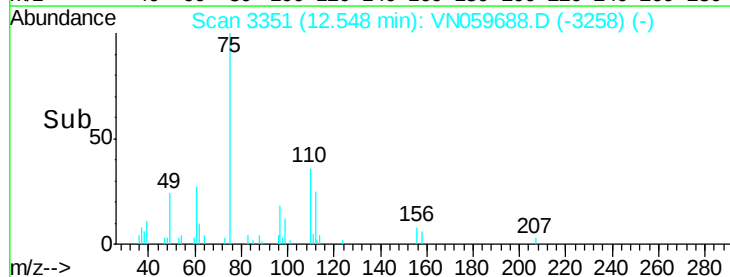
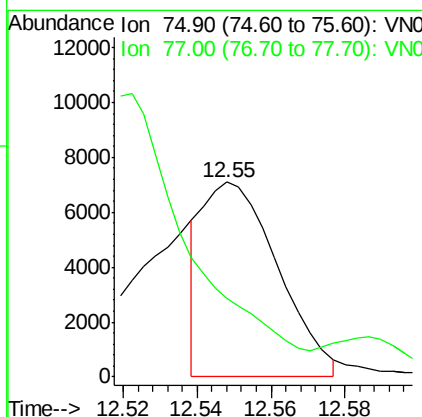
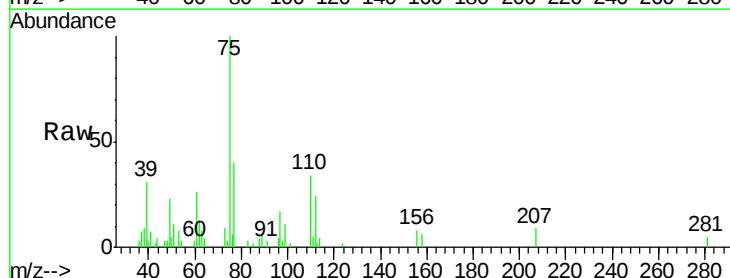
RT: 12.55 min Scan# 3351

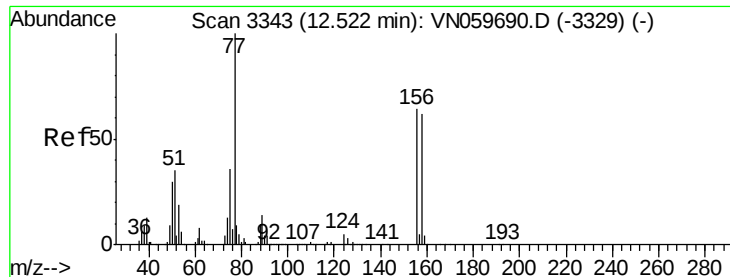
Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion:	75	Resp:	10021
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.176 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

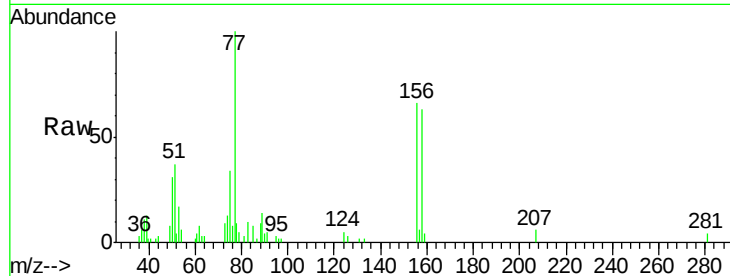
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	186.8	115.8	347.4
158	94.6	49.2	147.6

Manual Integrations
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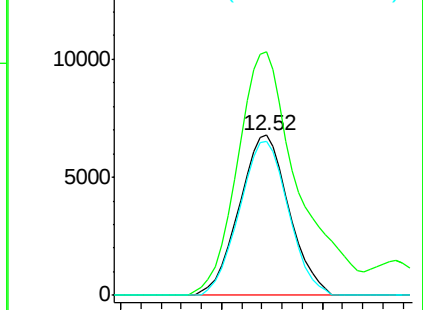
MMDadoda
1/14/2020 10:59:41 AM



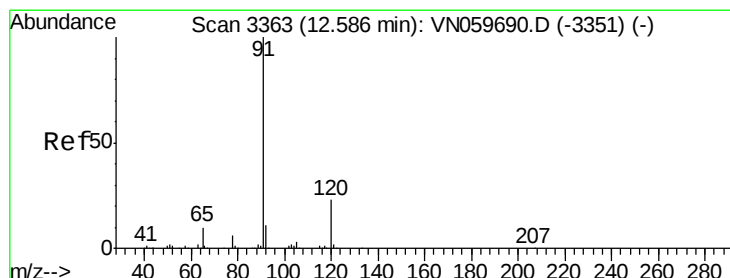
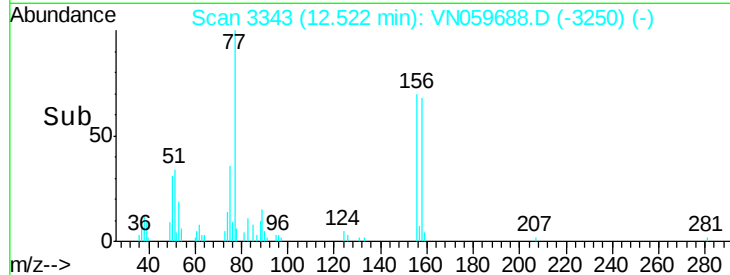
Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



Time--> 12.45 12.50 12.55



#78

n-propylbenzene

Concen: 4.692 ug/l

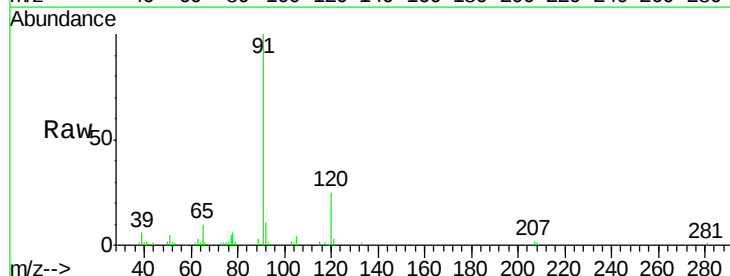
RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN059688.D

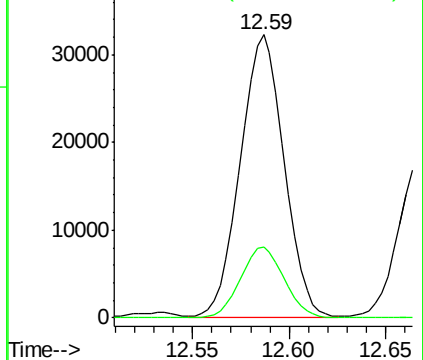
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.8	11.1	33.3

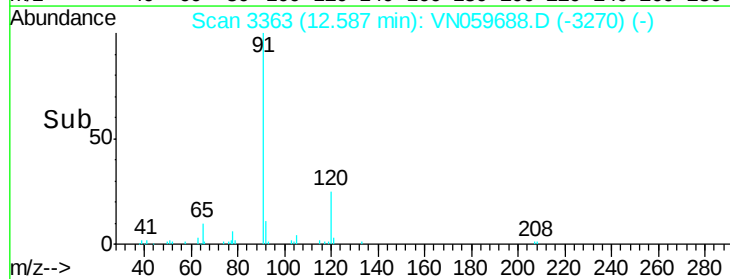


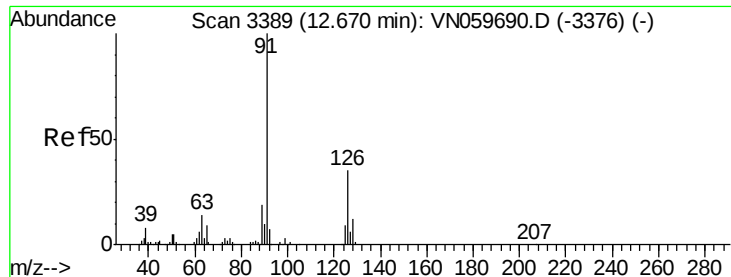
Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V



Time--> 12.55 12.60 12.65





#79

2-Chlorotoluene

Concen: 4.825 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 31742

Ion Ratio Lower Upper

91 100

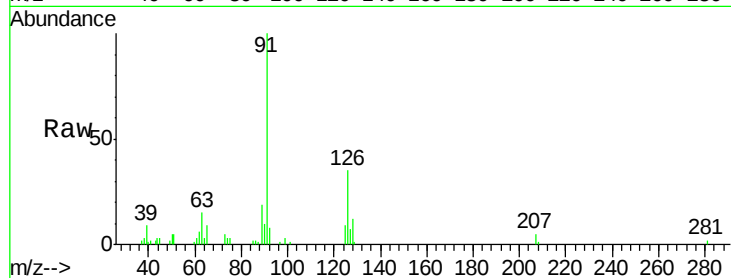
126 34.3 16.3 48.9

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN059690.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN059690.D (-3376) (-)

30000

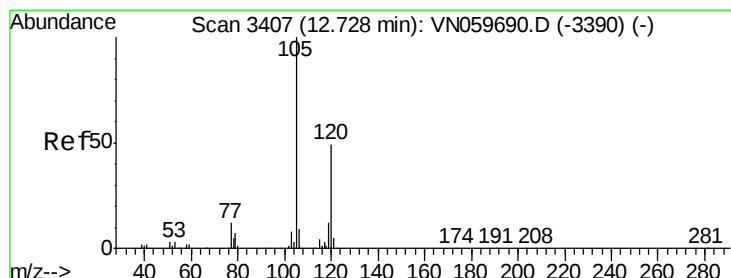
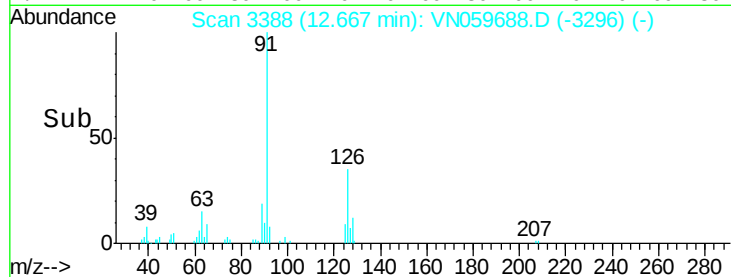
20000

10000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 5.045 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059688.D

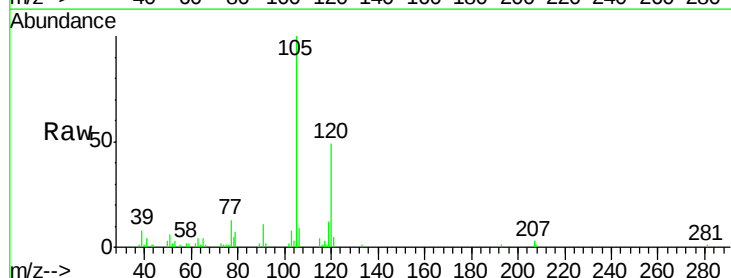
Acq: 13 Jan 2020 14:06

Tgt Ion: 105 Resp: 39288

Ion Ratio Lower Upper

105 100

120 48.7 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059690.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059690.D (-3390) (-)

25000

20000

15000

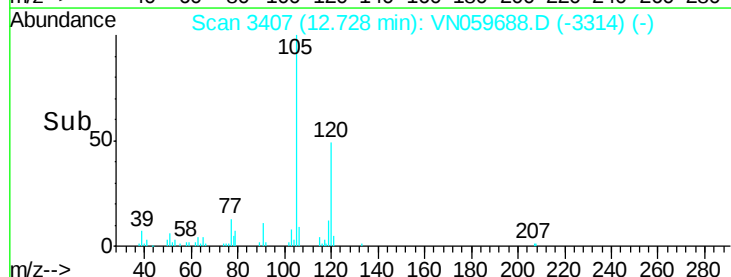
10000

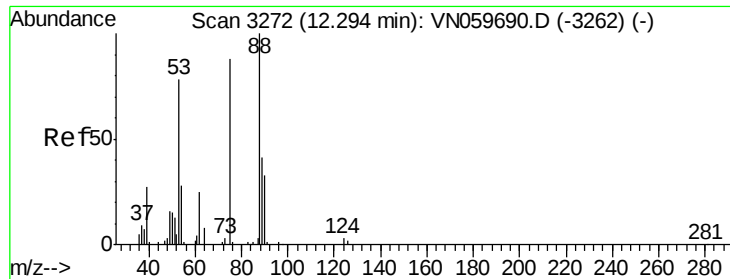
5000

0

12.65 12.70 12.75 12.80

Time-->





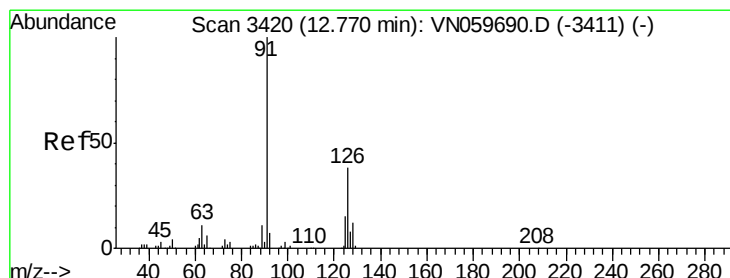
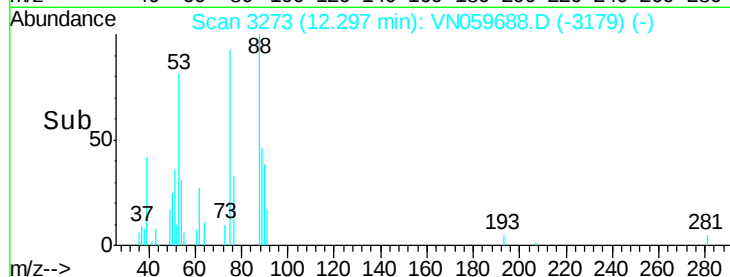
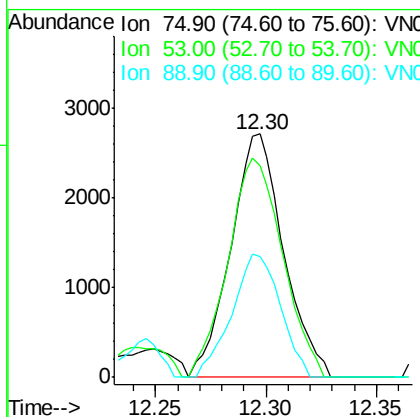
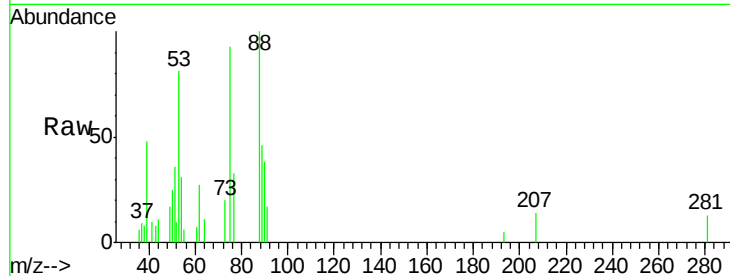
#81
trans-1,4-Dichloro-2-butene
Concen: 3.841 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.4	78.1	117.1
89	46.4	35.4	53.2

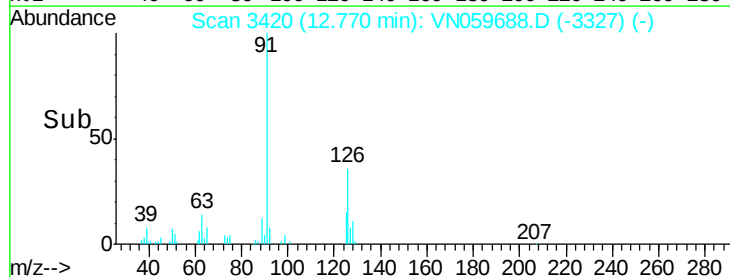
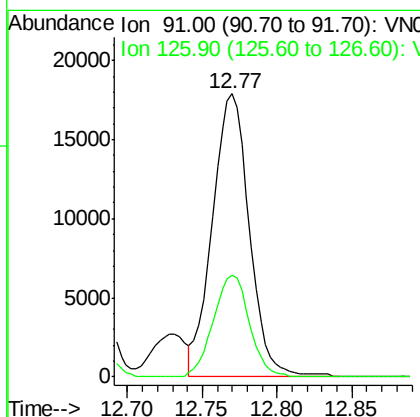
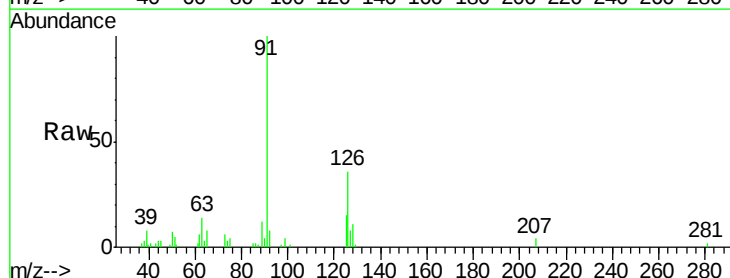
Manual Integrations
APPROVED

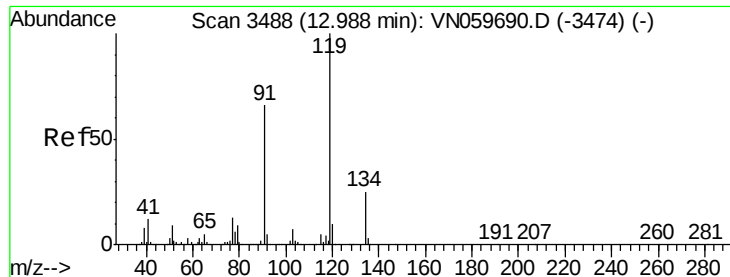
MMDadoda
1/14/2020 10:59:41 AM



#82
4-Chlorotoluene
Concen: 4.577 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	16.3	48.8





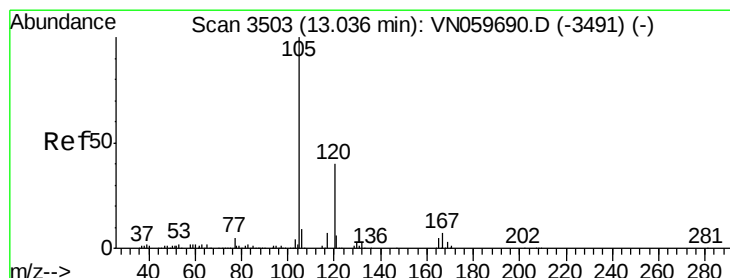
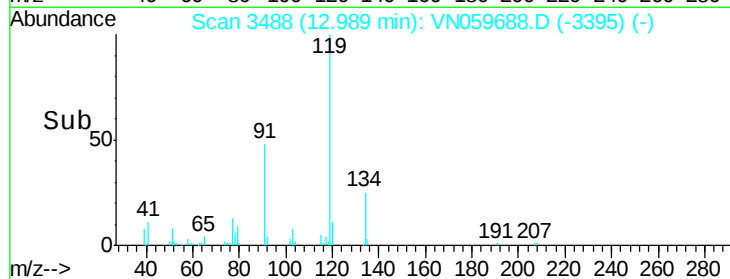
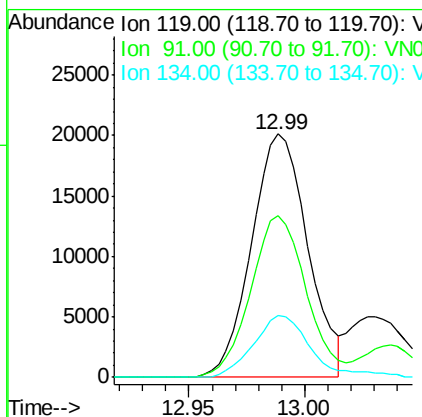
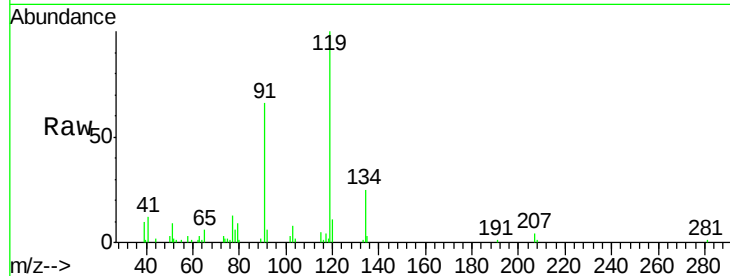
#83
 tert-Butylbenzene
 Concen: 5.164 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.3	34.8	104.4
134	25.9	12.3	36.9

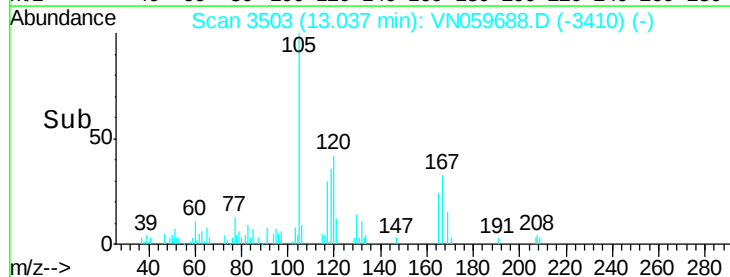
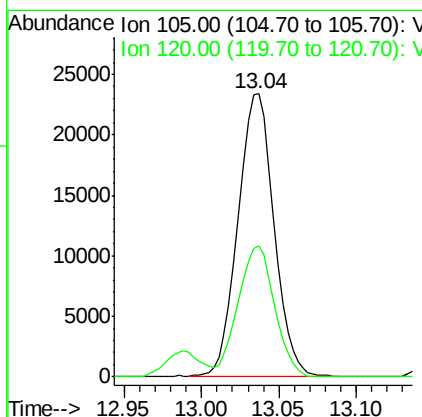
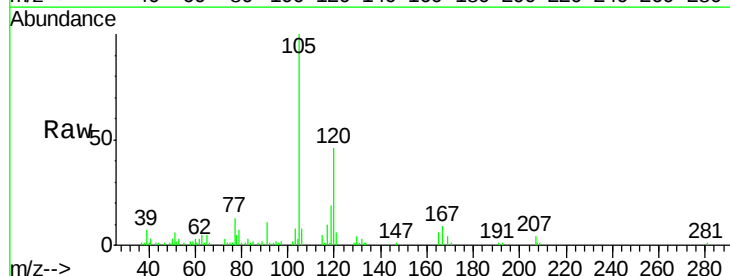
Manual Integrations
 APPROVED

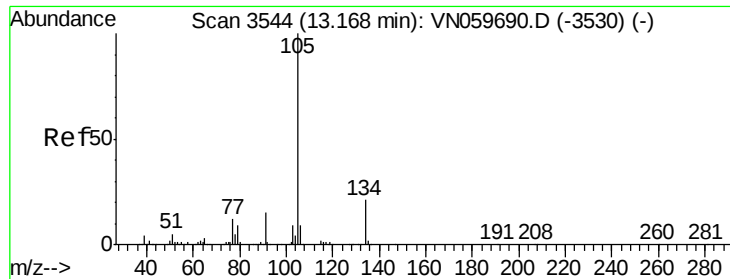
MMDadoda
 1/14/2020 10:59:41 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 4.917 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.7	22.3	66.9





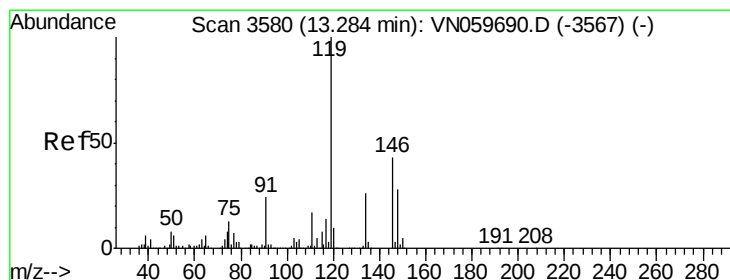
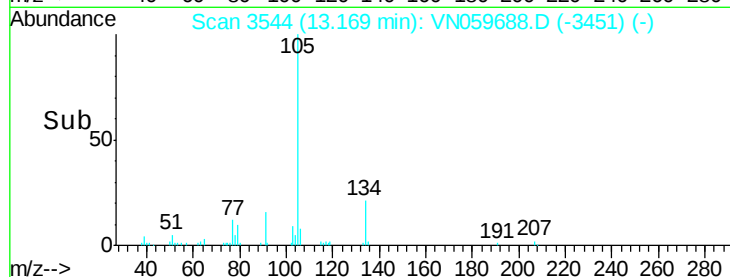
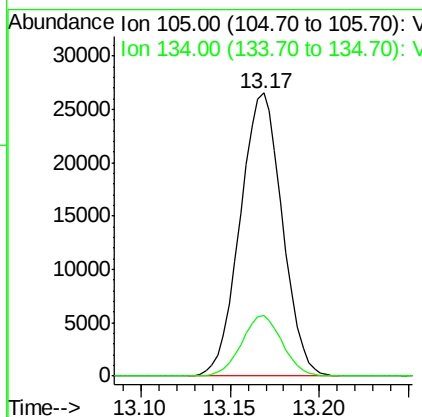
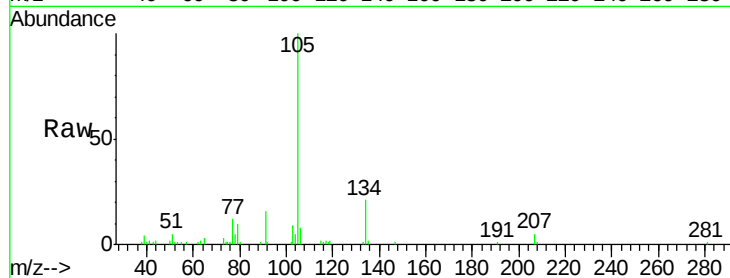
#85
 sec-Butylbenzene
 Concen: 4.999 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.7	9.8	29.5

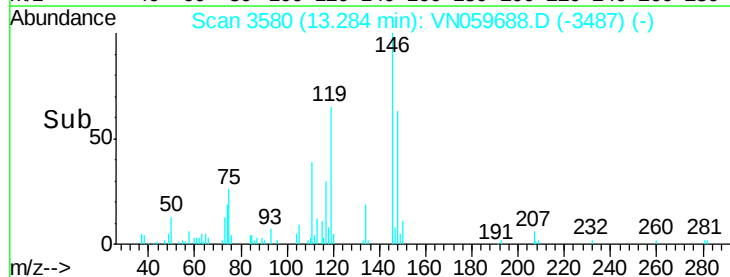
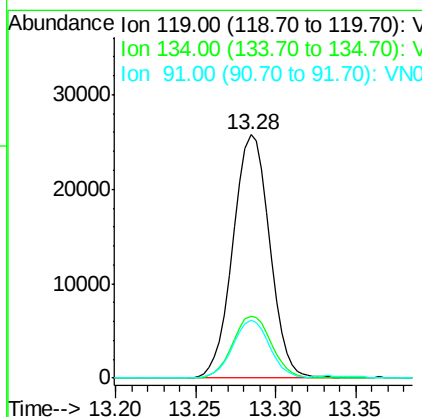
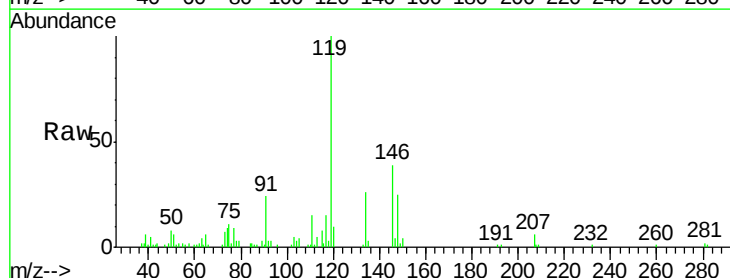
Manual Integrations
 APPROVED

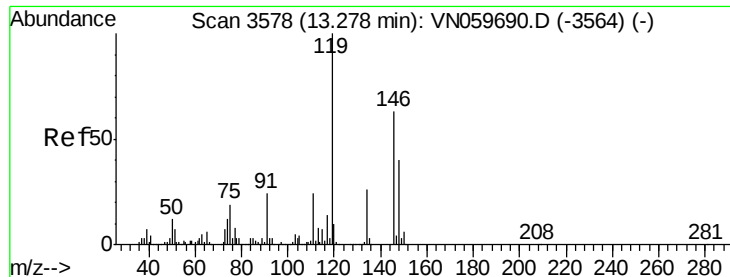
MMDadoda
 1/14/2020 10:59:41 AM



#86
 p-Isopropyltoluene
 Concen: 5.062 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	12.9	38.7
91	23.7	12.4	37.4





#87

1,3-Dichlorobenzene

Concen: 4.670 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN059688.D

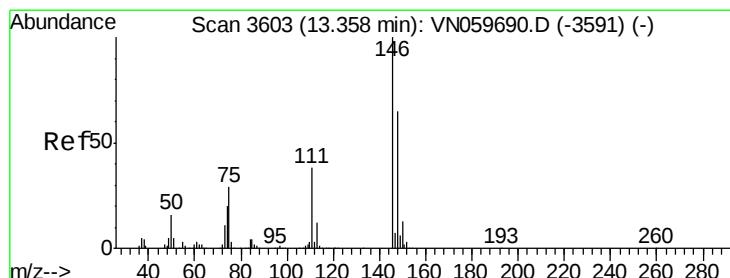
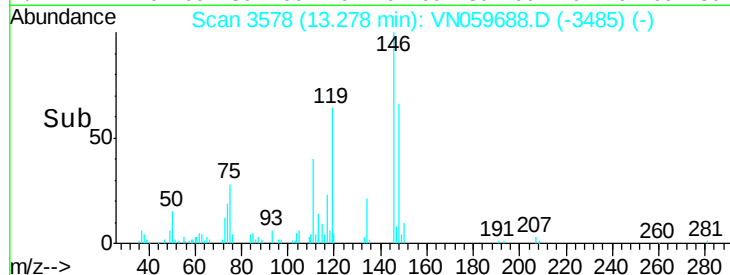
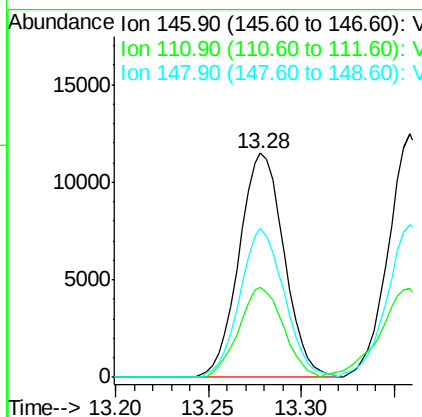
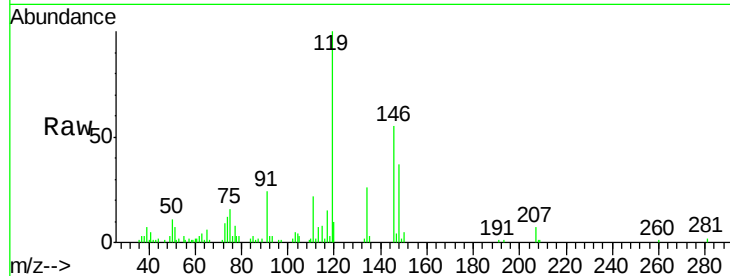
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.8	62.2
148	65.6	32.0	96.0

Manual Integrations
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1/14/2020 10:59:41 AM



#88

1,4-Dichlorobenzene

Concen: 4.813 ug/l

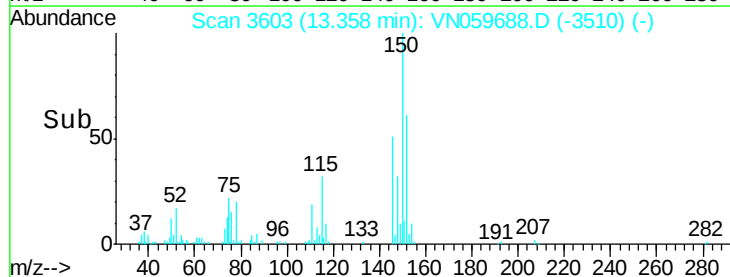
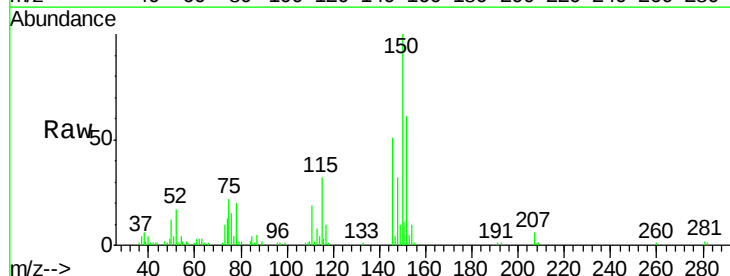
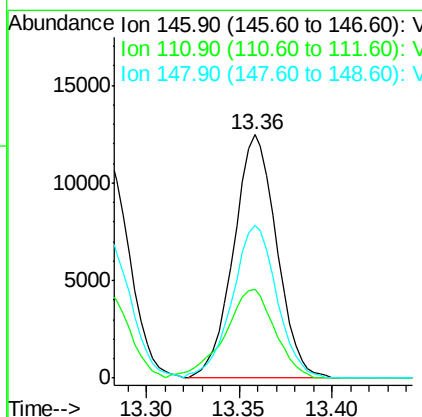
RT: 13.36 min Scan# 3603

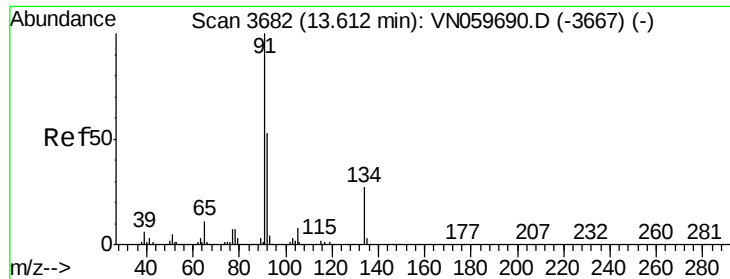
Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.8	62.2
148	64.8	31.8	95.4





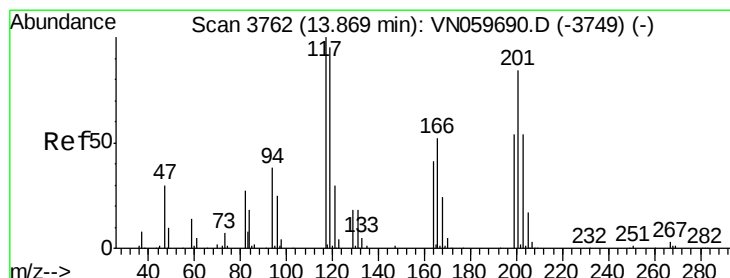
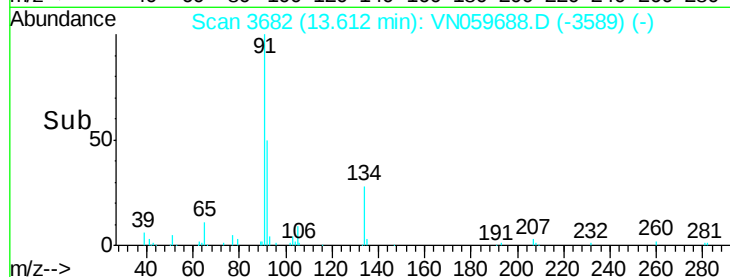
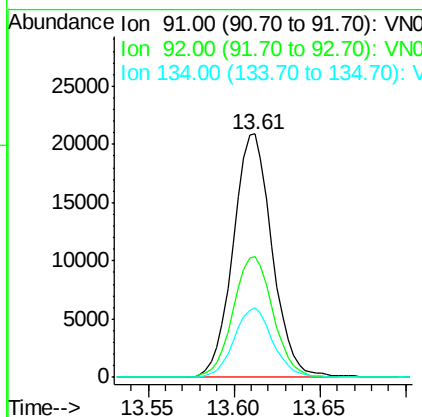
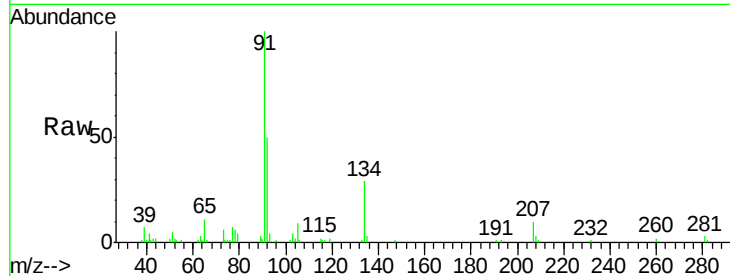
#89
n-Butylbenzene
Concen: 4.437 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.7	25.9	77.7
134	28.4	12.3	36.8

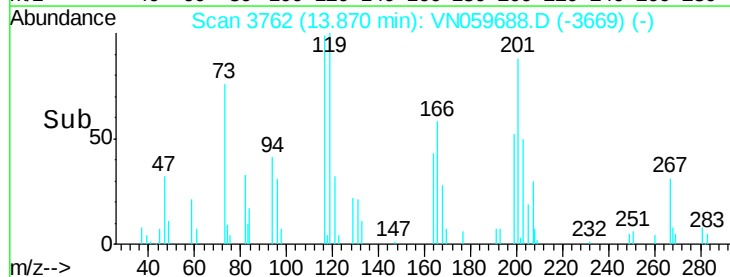
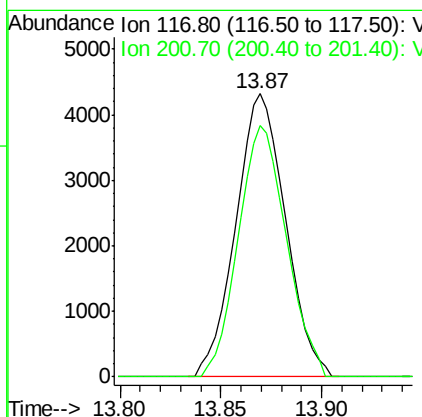
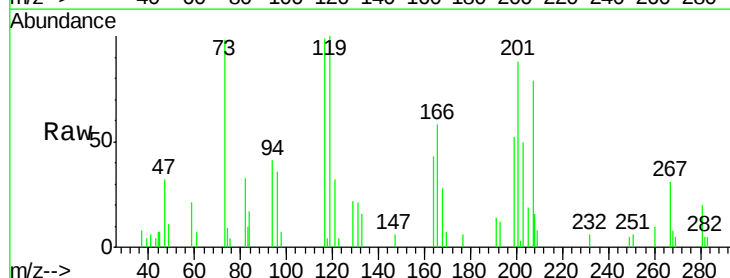
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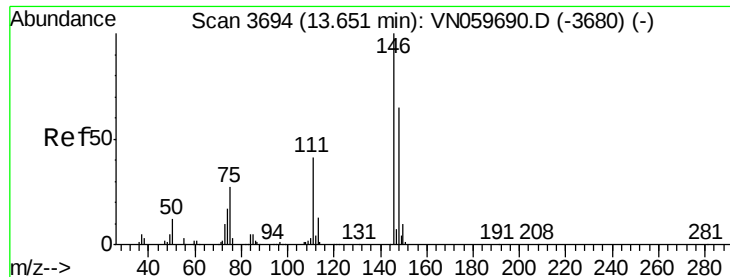
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#90
Hexachloroethane
Concen: 4.961 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN059688.D
Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.8	37.8	113.4





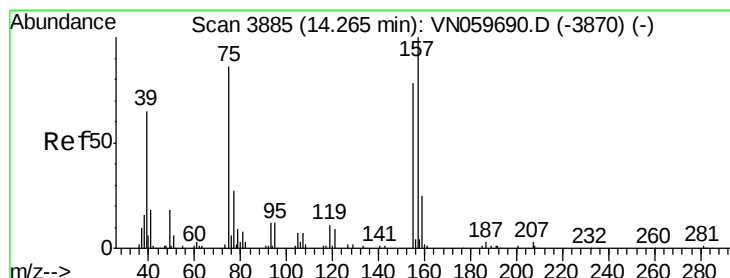
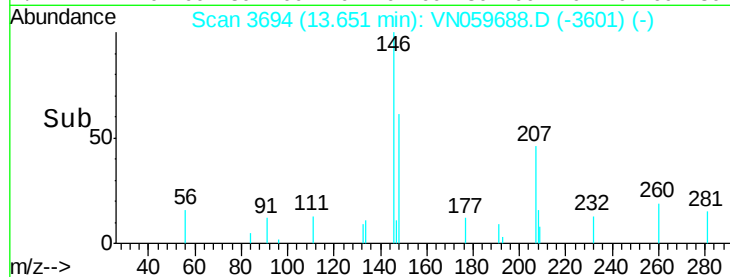
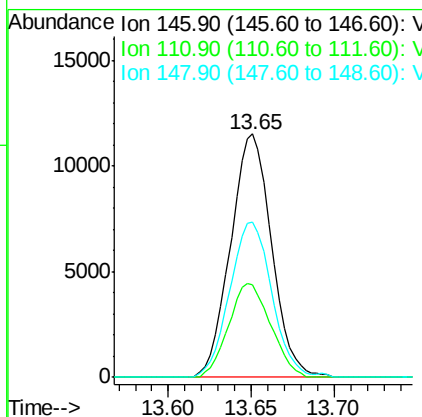
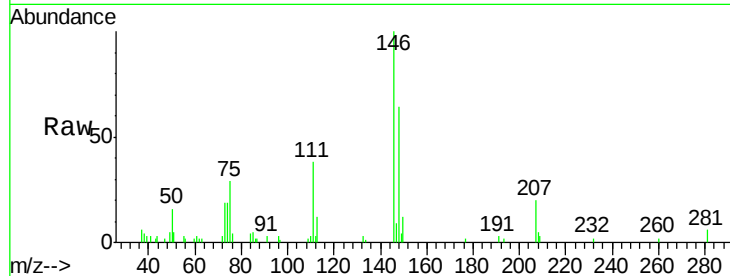
#91
 1,2-Dichlorobenzene
 Concen: 4.839 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	21.6	64.8
148	65.6	31.6	95.0

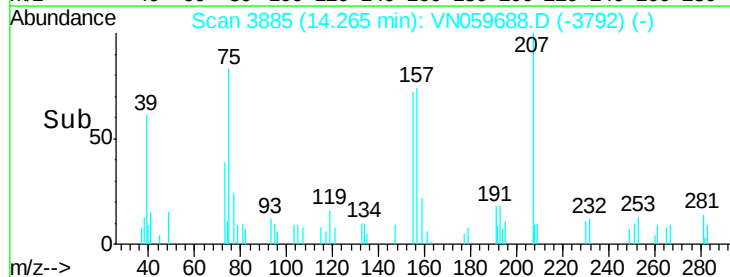
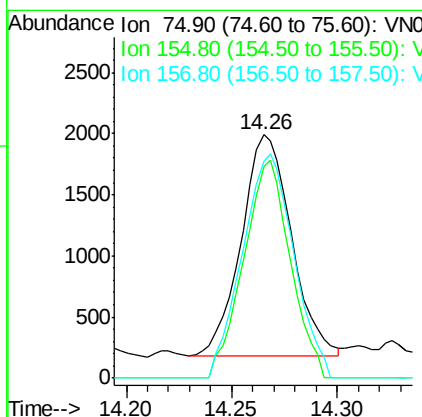
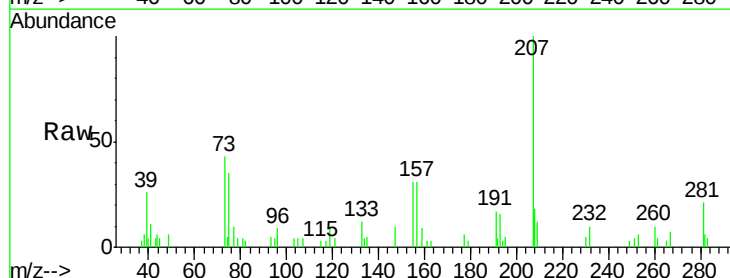
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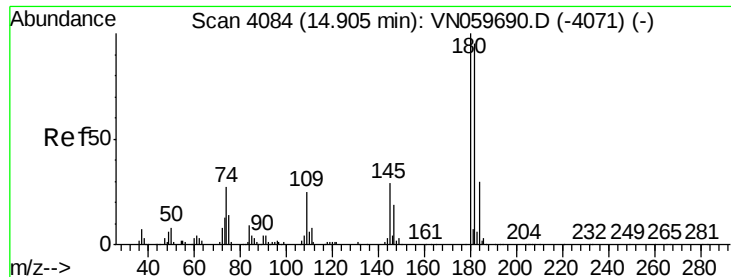
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.492 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.0	37.0	110.9
157	103.3	48.4	145.2





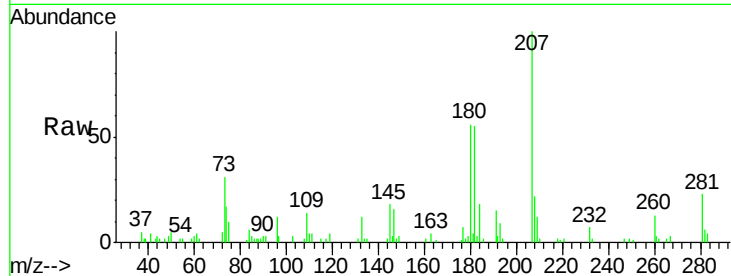
#93
 1,2,4-Trichlorobenzene
 Concen: 4.160 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

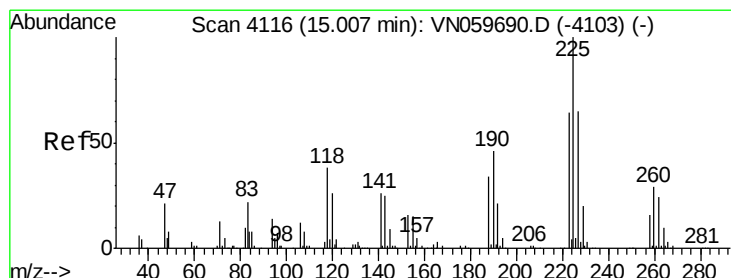
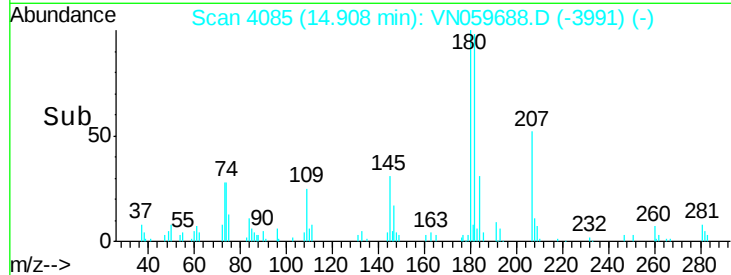
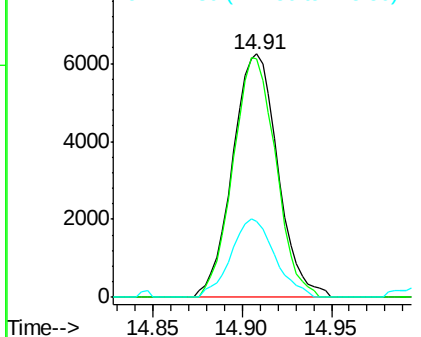
Tot Ion	Ratio	Lower	Upper
180	100		
182	93.1	46.9	140.7
145	31.3	15.0	45.1

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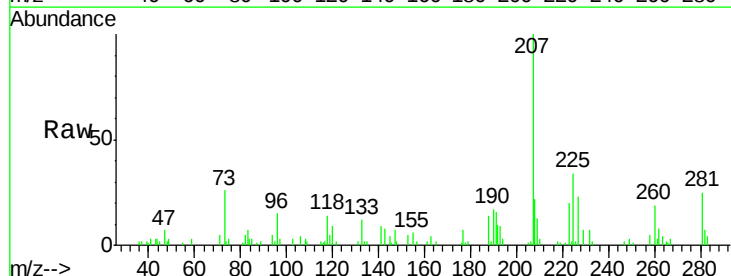


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

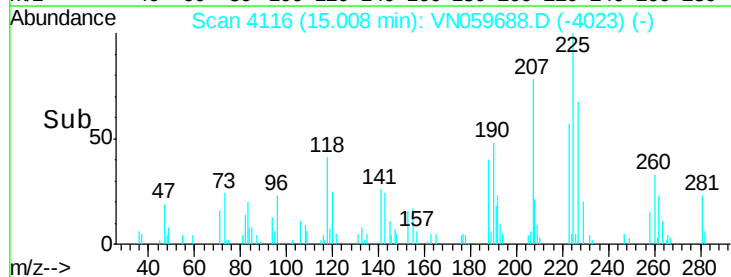
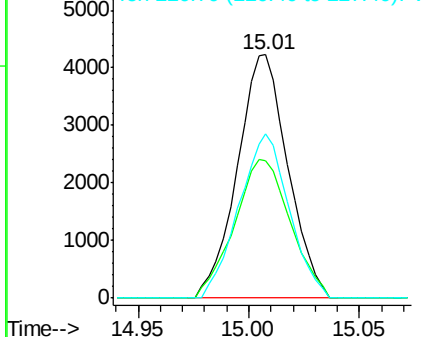


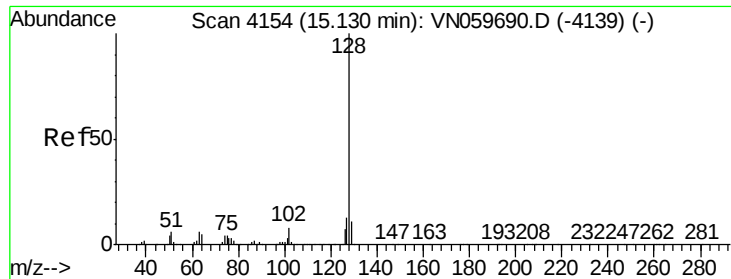
#94
 Hexachlorobutadiene
 Concen: 4.727 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN059688.D
 Acq: 13 Jan 2020 14:06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.8	95.3
227	67.0	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.744 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Instrument :

MSVOA_N

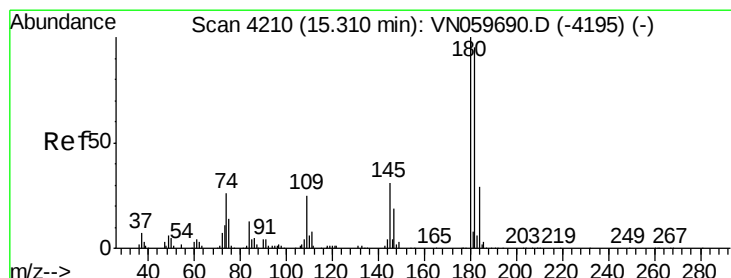
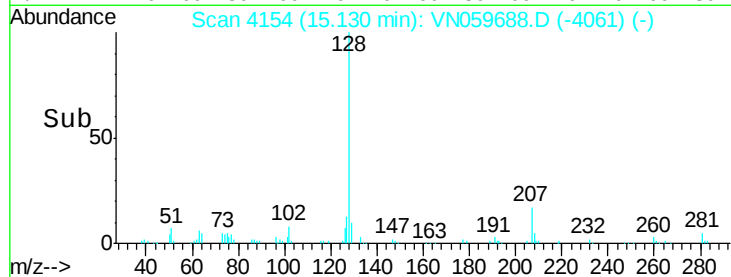
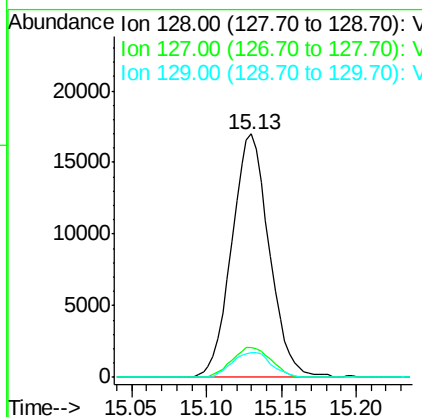
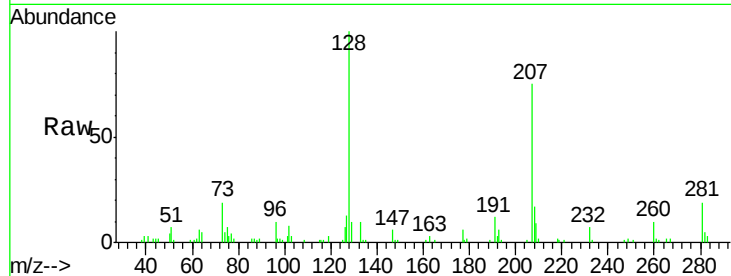
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	29619
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.4	15.6
129	10.7	8.6	12.8

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 3.885 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN059688.D

Acq: 13 Jan 2020 14:06

Tgt Ion:	180	Resp:	10413
Ion Ratio	Lower	Upper	
180	100		
182	99.0	47.4	142.3
145	33.2	16.3	48.9

