

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042919\
 Data File : VN055283.D
 Acq On : 29 Apr 2019 10:16
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 4/30/2019 11:58:49 AM

Quant Time: Apr 30 04:03:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 03:41:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	436580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	684632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	574129	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	170226	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	28371	4.83	ug/l	0.00
Spiked Amount			Recovery	=	9.66%	
35) Dibromofluoromethane	7.59	113	23798	5.17	ug/l	0.00
Spiked Amount			Recovery	=	10.34%	
50) Toluene-d8	10.09	98	82579	4.85	ug/l	0.00
Spiked Amount			Recovery	=	9.70%	
62) 4-Bromofluorobenzene	12.40	95	24733	4.60	ug/l	0.00
Spiked Amount			Recovery	=	9.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	23902	4.315	ug/l	98
3) Chloromethane	2.06	50	31189	4.599	ug/l	99
4) Vinyl Chloride	2.19	62	25184	4.638	ug/l	96
5) Bromomethane	2.56	94	14198	4.479	ug/l	98
6) Chloroethane	2.70	64	14416	4.996	ug/l	99
7) Trichlorofluoromethane	3.02	101	38754	5.202	ug/l	97
8) Diethyl Ether	3.41	74	12852	4.837	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	23202	4.992	ug/l	92
10) Methyl Iodide	3.95	142	30225	4.669	ug/l	98
11) Tert butyl alcohol	4.80	59	8283m	24.236	ug/l	
12) 1,1-Dichloroethene	3.74	96	21681	4.893	ug/l	94
13) Acrolein	3.61	56	5640	13.277	ug/l #	78
14) Allyl chloride	4.33	41	43007	4.860	ug/l	96
15) Acrylonitrile	5.00	53	45537	24.249	ug/l	99
16) Acetone	3.82	43	45184	24.147	ug/l	99
17) Carbon Disulfide	4.05	76	54357	4.428	ug/l	98
18) Methyl Acetate	4.33	43	25336	4.751	ug/l	93
19) Methyl tert-butyl Ether	5.05	73	59874	4.837	ug/l	100
20) Methylene Chloride	4.55	84	28012	5.029	ug/l	92
21) trans-1,2-Dichloroethene	5.05	96	23980	5.158	ug/l	91
22) Diisopropyl ether	5.95	45	86585	4.893	ug/l	92
23) Vinyl Acetate	5.90	43	273169	23.127	ug/l	98
24) 1,1-Dichloroethane	5.85	63	48907	5.170	ug/l	97
25) 2-Butanone	6.84	43	56346	22.792	ug/l	100
26) 2,2-Dichloropropane	6.82	77	31665	4.919	ug/l	94
27) cis-1,2-Dichloroethene	6.83	96	27506	5.110	ug/l	97
28) Bromochloromethane	7.20	49	23184	4.804	ug/l	95
29) Tetrahydrofuran	7.22	42	36986	24.050	ug/l	99
30) Chloroform	7.37	83	45982	5.104	ug/l	95
31) Cyclohexane	7.66	56	51180	4.726	ug/l #	87
32) 1,1,1-Trichloroethane	7.57	97	35932	4.974	ug/l	98
36) 1,1-Dichloropropene	7.79	75	31906	5.088	ug/l	99
37) Ethyl Acetate	6.93	43	23533	4.648	ug/l #	95
38) Carbon Tetrachloride	7.77	117	31125	5.262	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	36515	4.890	ug/l	98
40) Benzene	8.04	78	97956	5.031	ug/l	97
41) Methacrylonitrile	7.18	41	12116	4.552	ug/l	93
42) 1,2-Dichloroethane	8.13	62	36046	5.305	ug/l	100
43) Isopropyl Acetate	8.17	43	38853	4.714	ug/l	94
44) Trichloroethene	8.83	130	24167	4.922	ug/l	98
45) 1,2-Dichloropropane	9.12	63	28013	5.083	ug/l	99
46) Dibromomethane	9.21	93	15552	4.956	ug/l	99
47) Bromodichloromethane	9.40	83	33213	5.263	ug/l	99
48) Methyl methacrylate	9.20	41	20701	5.150	ug/l	95
49) 1,4-Dioxane	9.20	88	4400	97.029	ug/l #	94
51) 4-Methyl-2-Pentanone	9.99	43	114766	24.206	ug/l	99
52) Toluene	10.16	92	56426	4.968	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	26448	4.569	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	33684	4.689	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	20269	4.812	ug/l	93
56) Ethyl methacrylate	10.43	69	24816	4.744	ug/l	97
57) 1,3-Dichloropropane	10.71	76	36072	4.929	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	30860	19.115	ug/l	100
59) 2-Hexanone	10.75	43	70383	23.782	ug/l	96
60) Dibromochloromethane	10.90	129	19984	4.600	ug/l	95
61) 1,2-Dibromoethane	11.01	107	18860	4.783	ug/l	98
64) Tetrachloroethene	10.63	164	25680	5.527	ug/l	95
65) Chlorobenzene	11.43	112	57028	4.910	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.51	131	22276	5.151	ug/l	98
67) Ethyl Benzene	11.51	91	105366	5.089	ug/l	99
68) m/p-Xylenes	11.62	106	74563	10.074	ug/l	95
69) o-Xylene	11.95	106	36196	4.923	ug/l	97
70) Styrene	11.96	104	52369	4.605	ug/l	96
71) Bromoform	12.13	173	11752	4.596	ug/l #	100
73) Isopropylbenzene	12.25	105	97108	5.922	ug/l	98
74) N-amyl acetate	12.07	43	21769	4.965	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	23676	5.474	ug/l	95
76) 1,2,3-Trichloropropane	12.55	75	21243m	6.079	ug/l	
77) Bromobenzene	12.53	156	22330	5.957	ug/l	95
78) n-propylbenzene	12.59	91	98398	5.754	ug/l	100
79) 2-Chlorotoluene	12.67	91	62523	5.790	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	74542	5.848	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	5010	5.489	ug/l	89
82) 4-Chlorotoluene	12.77	91	54974	5.557	ug/l	98
83) tert-Butylbenzene	12.99	119	69194	6.064	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	62689	5.218	ug/l	100
85) sec-Butylbenzene	13.17	105	81533	5.648	ug/l	99
86) p-Isopropyltoluene	13.29	119	62703	5.280	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	29463	5.148	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	28403	5.090	ug/l	96
89) n-Butylbenzene	13.61	91	41012	4.689	ug/l	100
90) Hexachloroethane	13.87	117	12082	5.705	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	30245	5.153	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	2323	4.506	ug/l	87

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ClientSampleId :
VSTDICC005

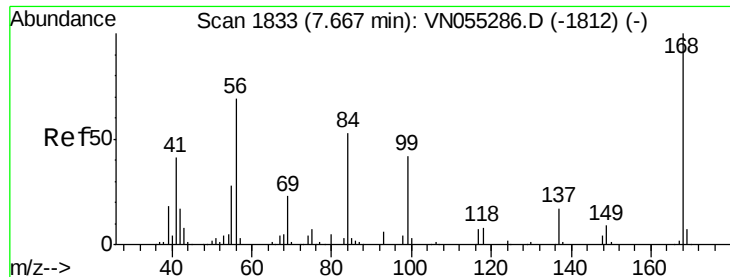
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	6776	3.320	ug/l	94
94) Hexachlorobutadiene	15.01	225	12032	5.672	ug/l	94
95) Naphthalene	15.13	128	15091	3.511	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	7116	3.358	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 436580

Ion Ratio Lower Upper

168 100

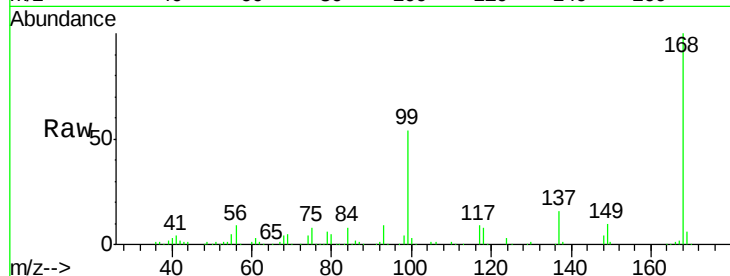
99 53.7 43.6 65.4

Manual Integrations

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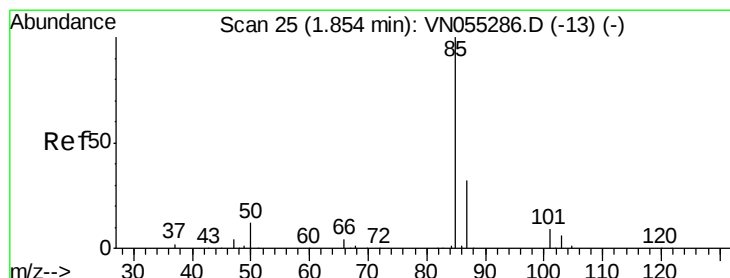
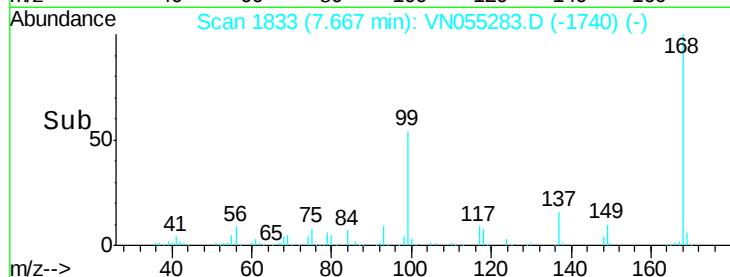
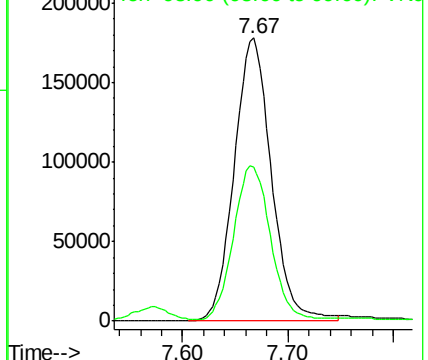
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 4.315 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055283.D

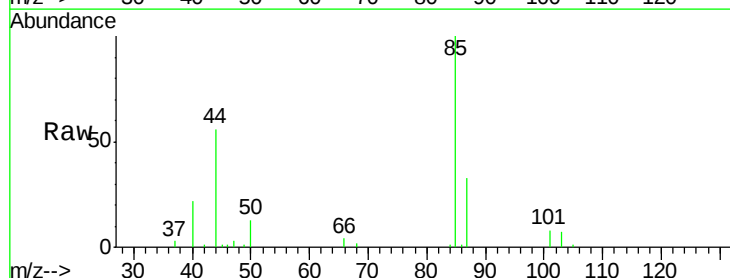
Acq: 29 Apr 2019 10:16

Tgt Ion: 85 Resp: 23902

Ion Ratio Lower Upper

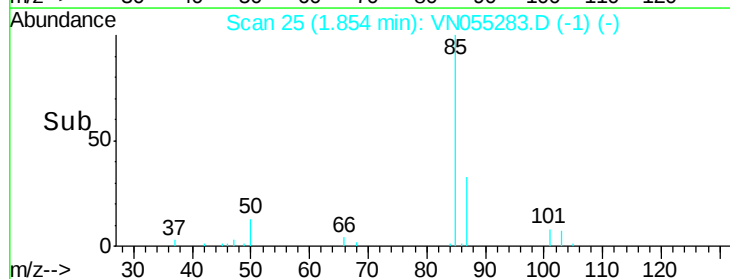
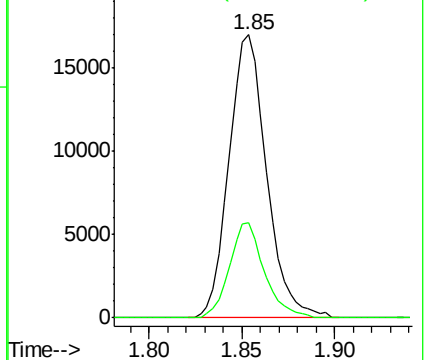
85 100

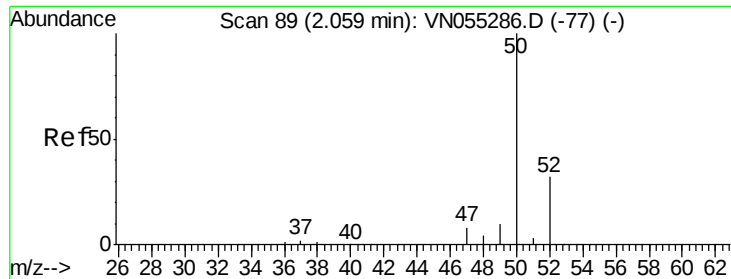
87 33.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 4.599 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 31189

Ion Ratio Lower Upper

50 100

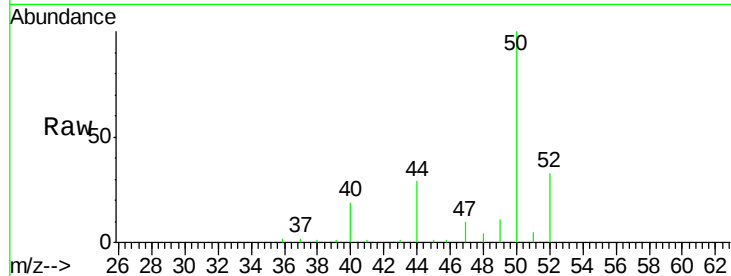
52 32.8 25.7 38.5

Manual Integrations

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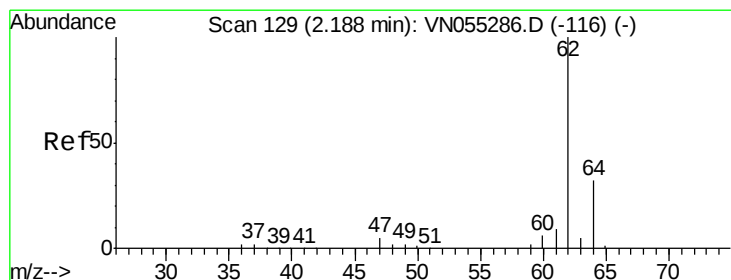
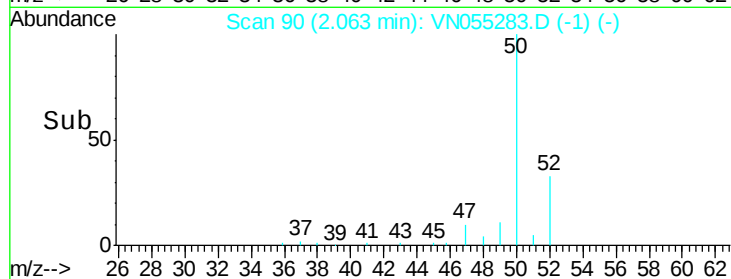
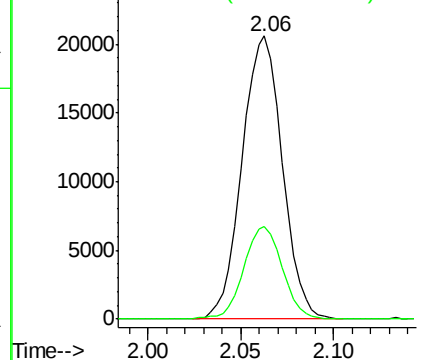
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 4.638 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055283.D

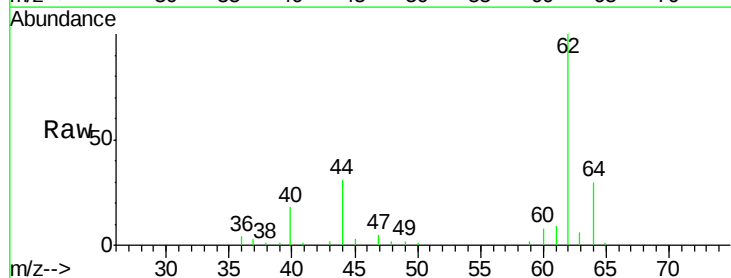
Acq: 29 Apr 2019 10:16

Tgt Ion: 62 Resp: 25184

Ion Ratio Lower Upper

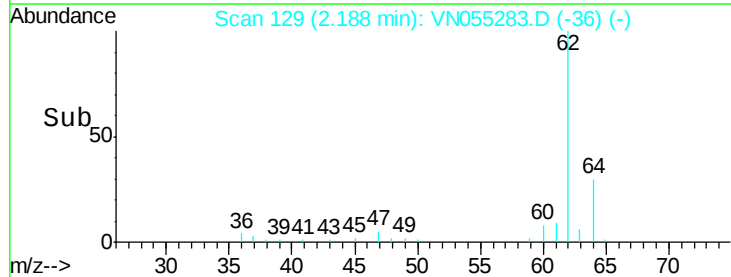
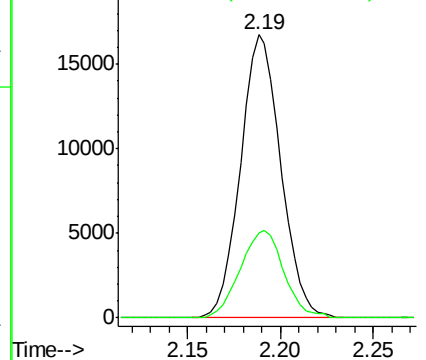
62 100

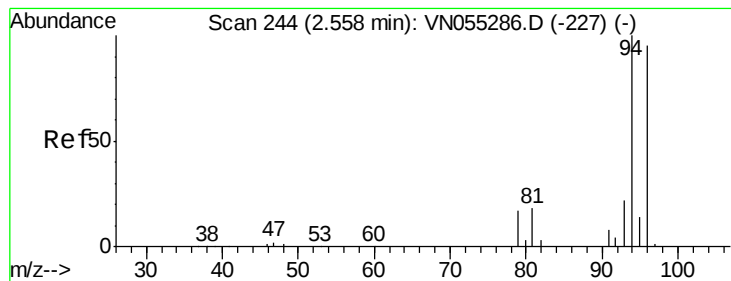
64 29.8 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 4.479 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 14198

Ion Ratio Lower Upper

94 100

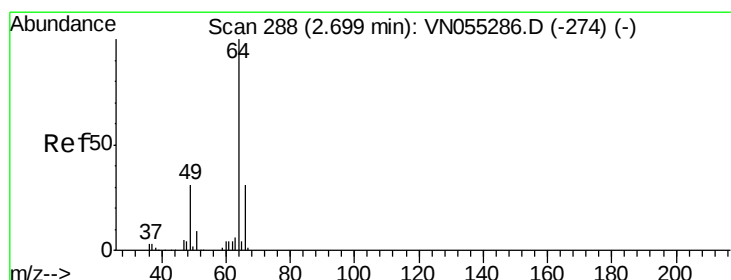
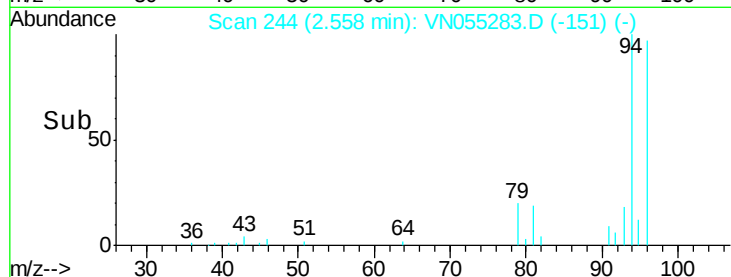
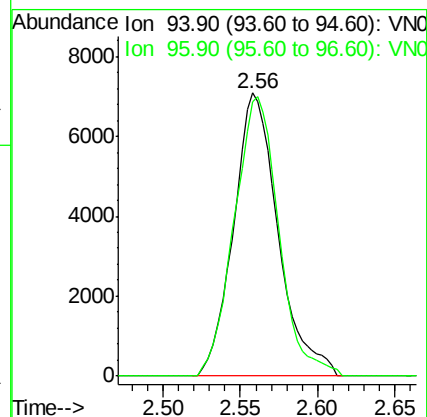
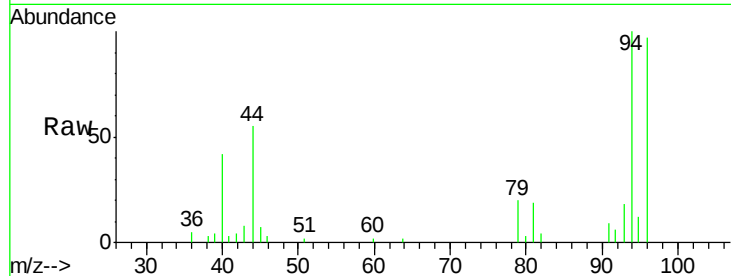
96 97.1 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 4.996 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN055283.D

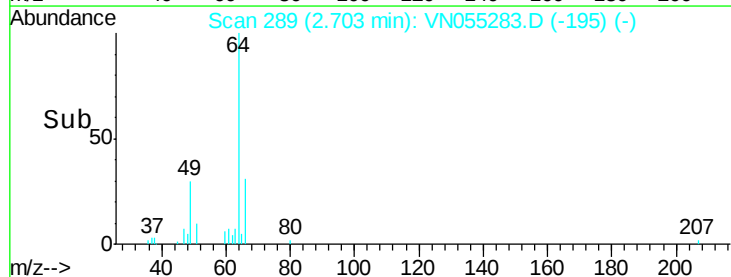
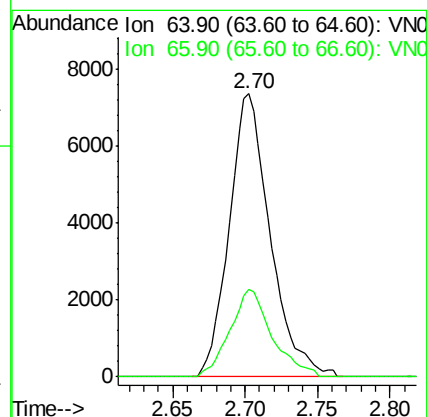
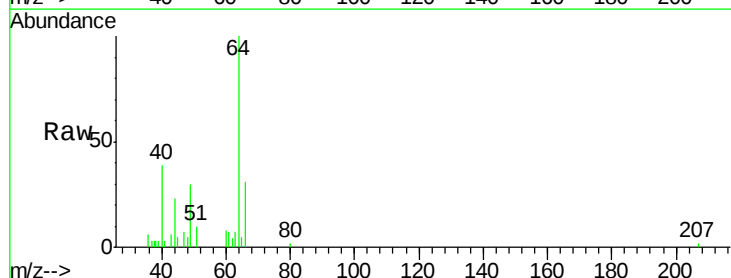
Acq: 29 Apr 2019 10:16

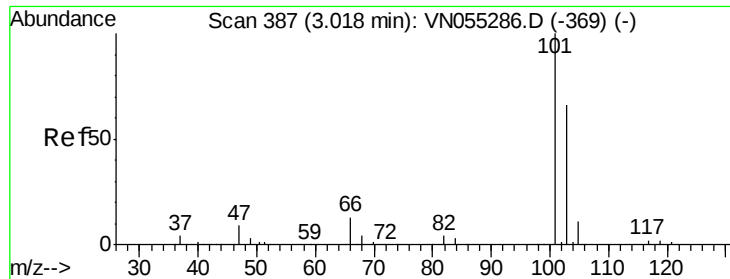
Tgt Ion: 64 Resp: 14416

Ion Ratio Lower Upper

64 100

66 30.9 25.0 37.4





#7

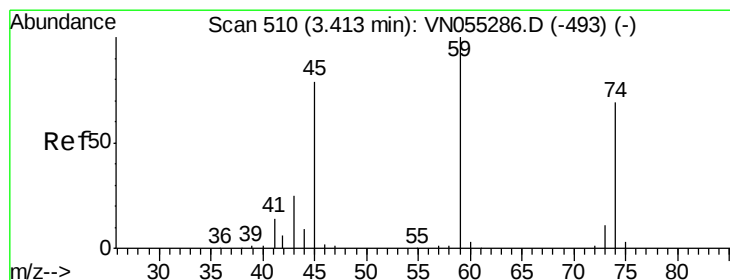
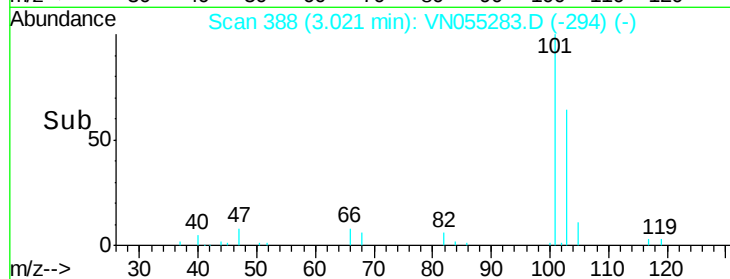
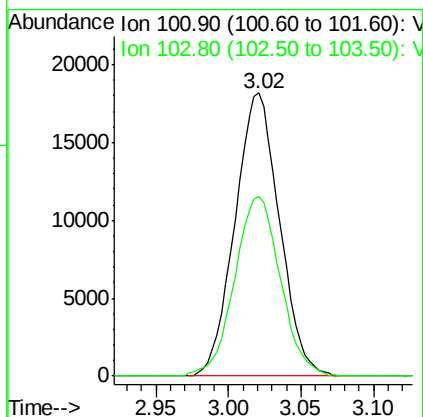
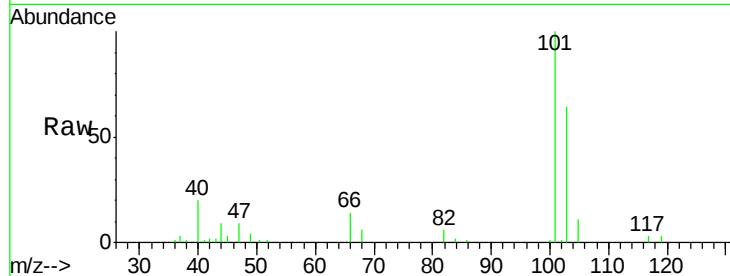
Trichlorofluoromethane
 Concen: 5.202 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:101 Resp: 38754
 Ion Ratio Lower Upper
 101 100
 103 63.7 52.6 79.0

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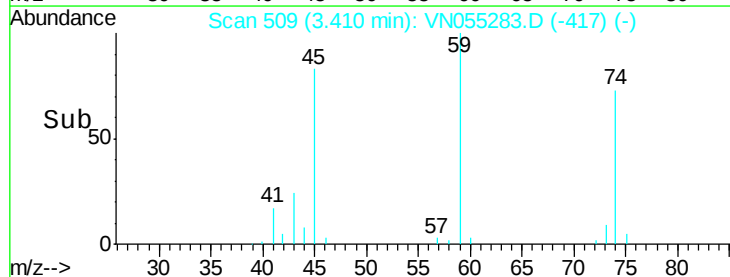
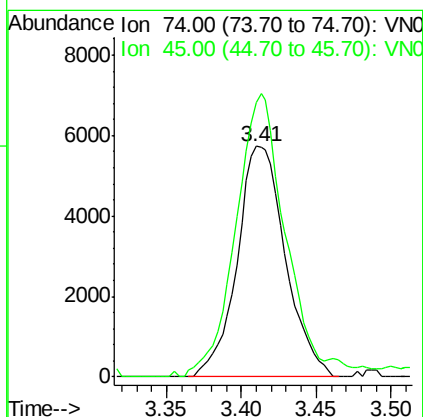
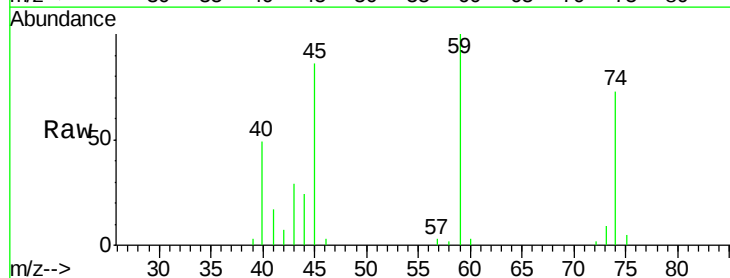
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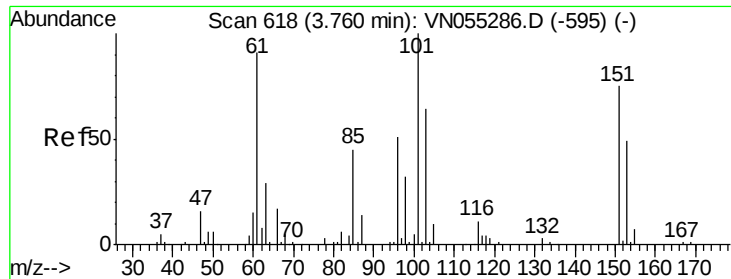


#8

Diethyl Ether
 Concen: 4.837 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion: 74 Resp: 12852
 Ion Ratio Lower Upper
 74 100
 45 124.0 58.9 176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.992 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

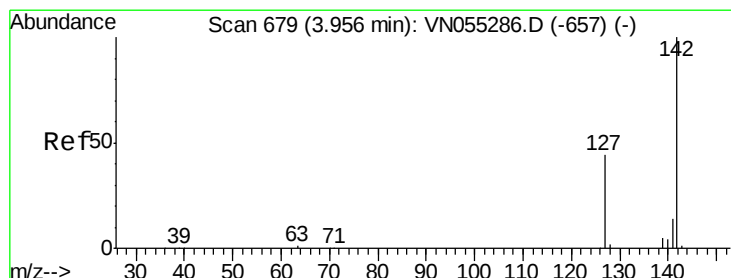
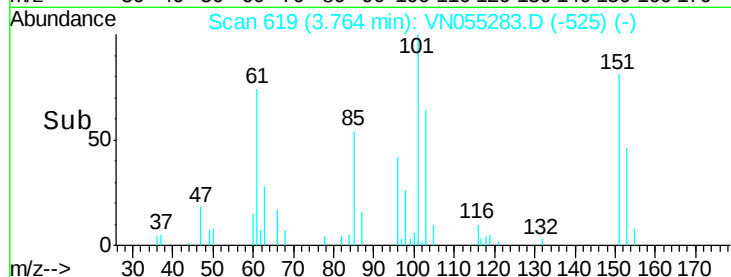
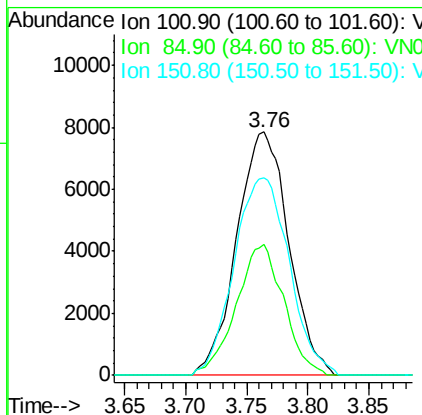
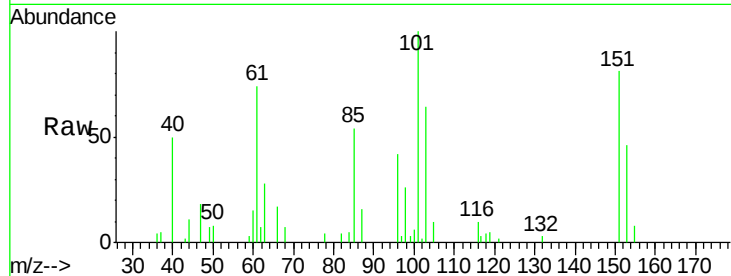
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	23202
Ion Ratio	Lower	Upper	
101	100		
85	49.0	35.7	53.5
151	86.4	63.3	94.9

Manual Integrations
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#10

Methyl Iodide

Concen: 4.669 ug/l

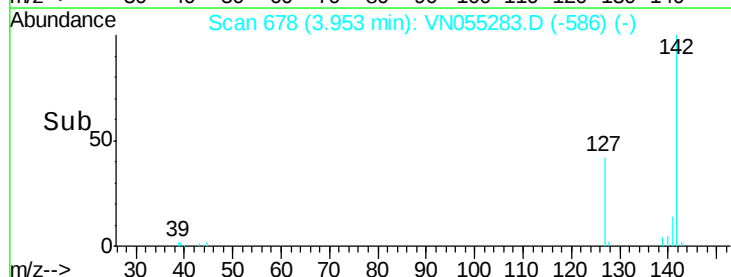
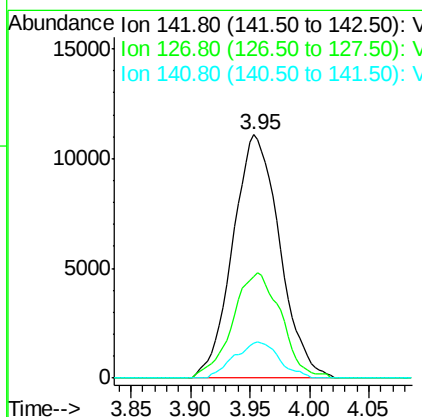
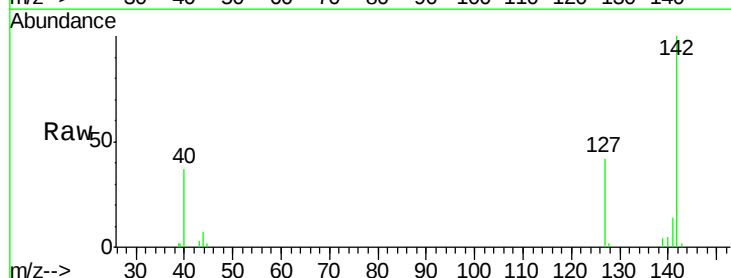
RT: 3.95 min Scan# 678

Delta R.T. -0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Tgt Ion:	142	Resp:	30225
Ion Ratio	Lower	Upper	
142	100		
127	44.8	34.4	51.6
141	14.2	11.5	17.3





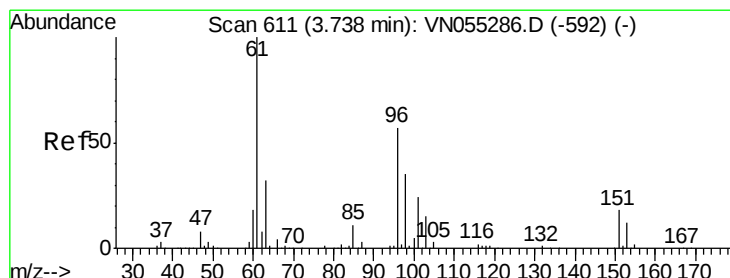
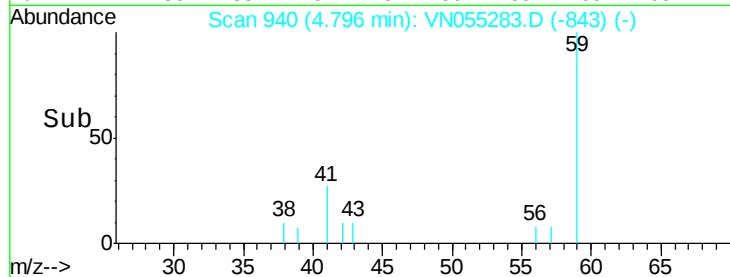
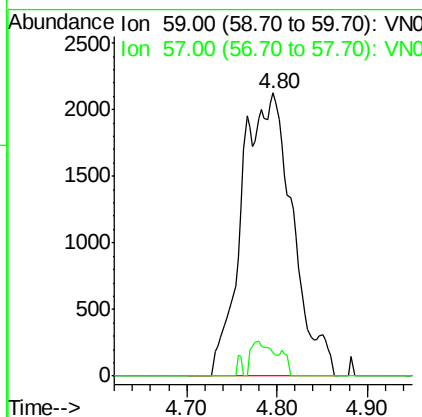
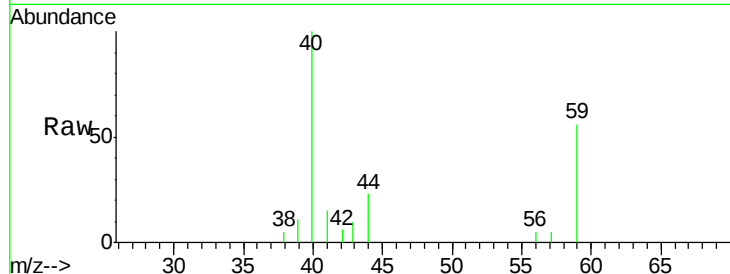
#11
Tert butyl alcohol
Concen: 24.236 ug/l m
RT: 4.80 min Scan# 940
Delta R.T. 0.01 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 8283
Ion Ratio Lower Upper
59 100
57 4.9 8.2 12.2#

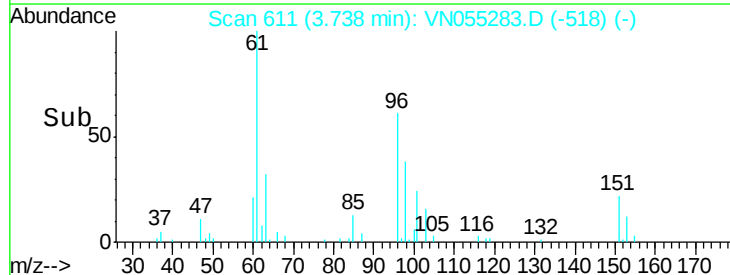
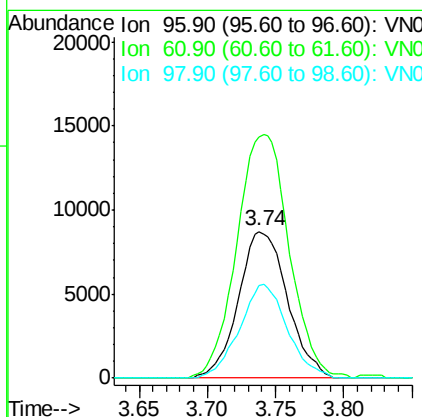
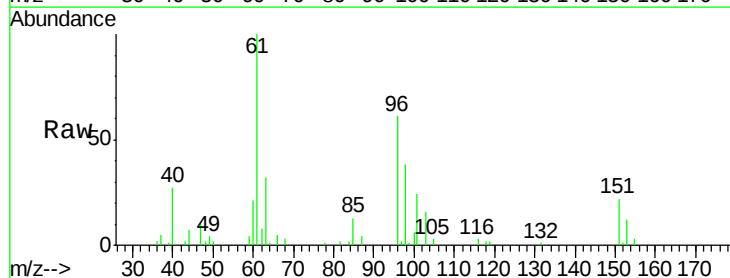
Manual Integrations
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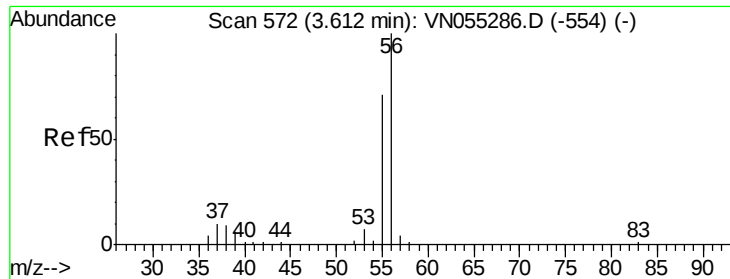
MMDadoda
4/30/2019 11:58:49 AM



#12
1,1-Dichloroethene
Concen: 4.893 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion: 96 Resp: 21681
Ion Ratio Lower Upper
96 100
61 165.0 140.9 211.3
98 63.0 50.0 75.0





#13

Acrolein

Concen: 13.277 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 5640

Ion Ratio Lower Upper

56 100

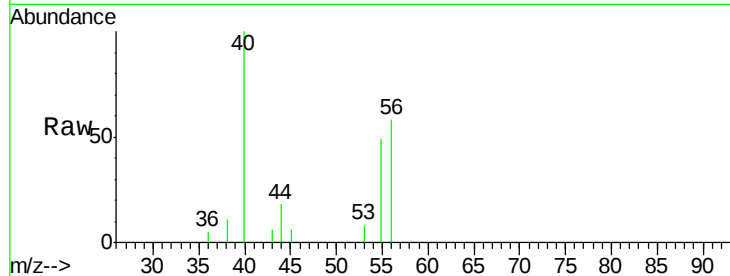
55 90.0 57.4 86.2#

Manual Integrations

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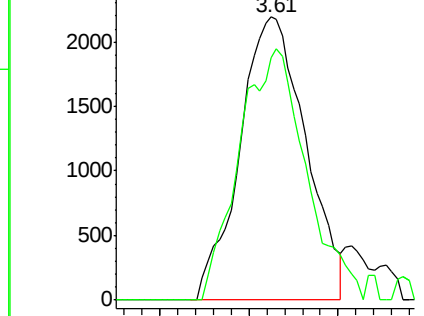
MMDadoda

4/30/2019 11:58:49 AM

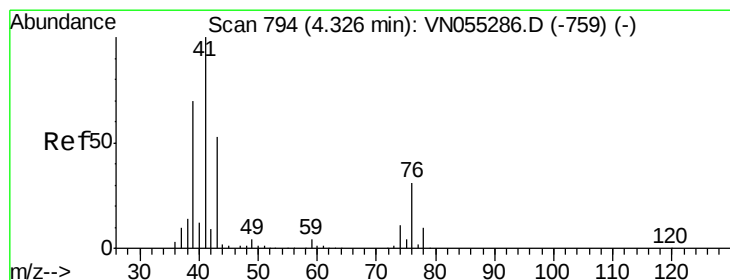
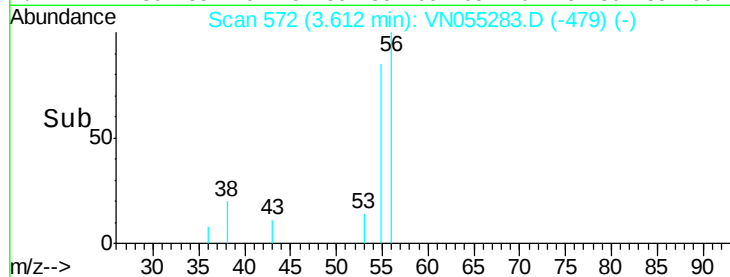


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#14

Allyl chloride

Concen: 4.860 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

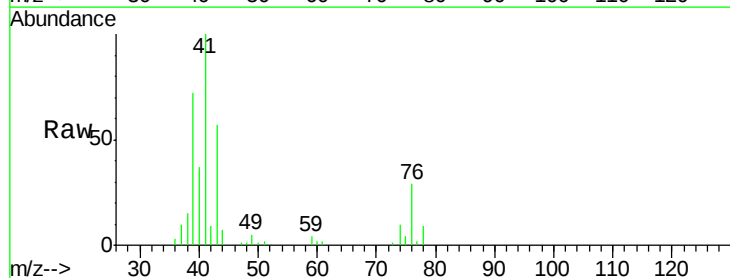
Tgt Ion: 41 Resp: 43007

Ion Ratio Lower Upper

41 100

39 70.8 53.0 79.6

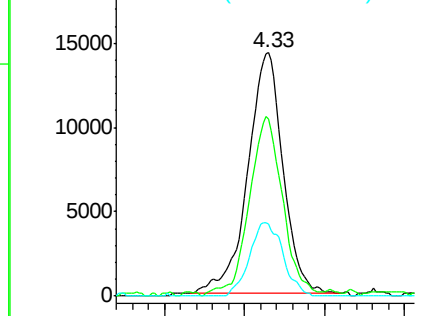
76 28.9 22.7 34.1



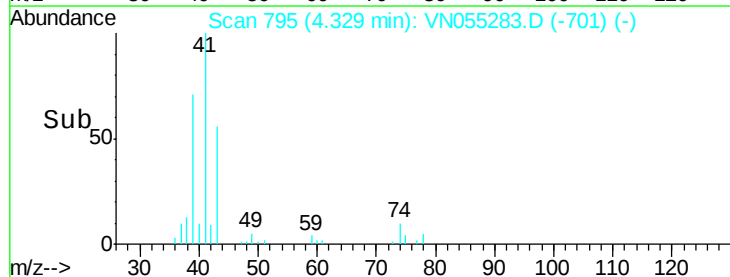
Abundance Ion 41.00 (40.70 to 41.70): VN0

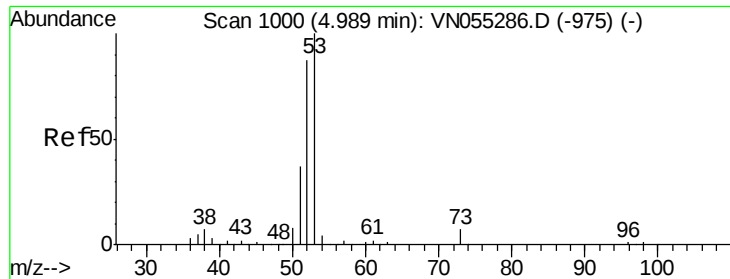
Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



Time-->





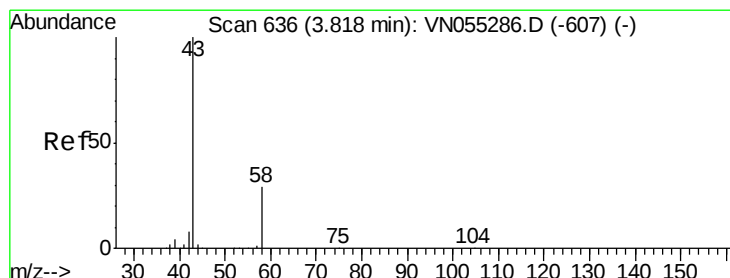
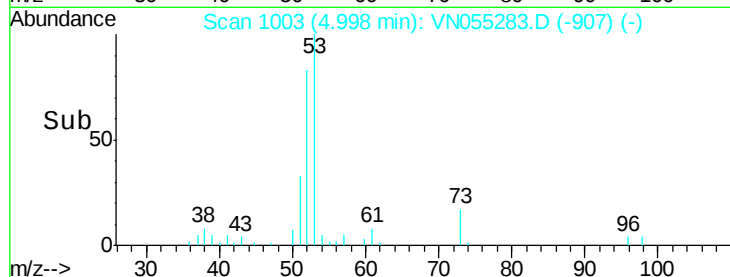
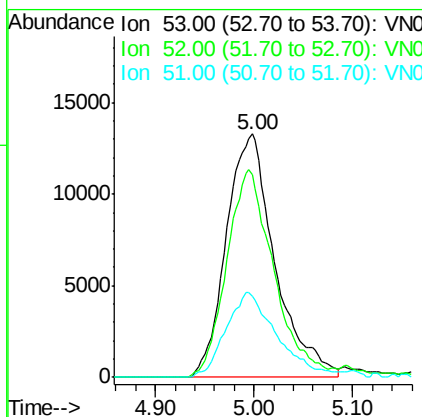
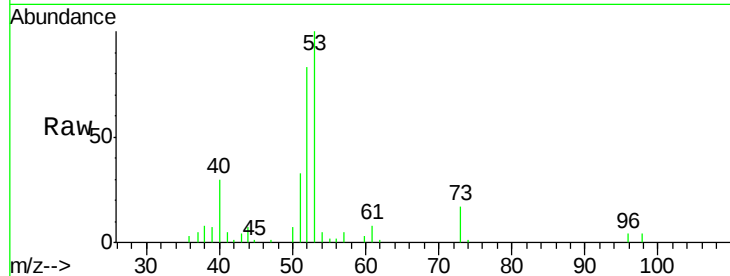
#15
 Acrylonitrile
 Concen: 24.249 ug/l
 RT: 5.00 min Scan# 1003
 Delta R.T. 0.01 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	53	Resp	45537
Ion Ratio	100	Lower	Upper
53	100		
52	82.2	66.5	99.7
51	36.8	29.6	44.4

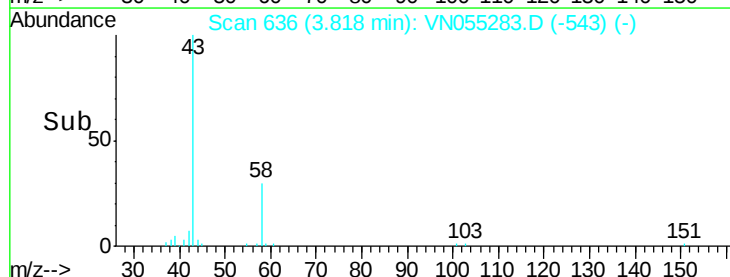
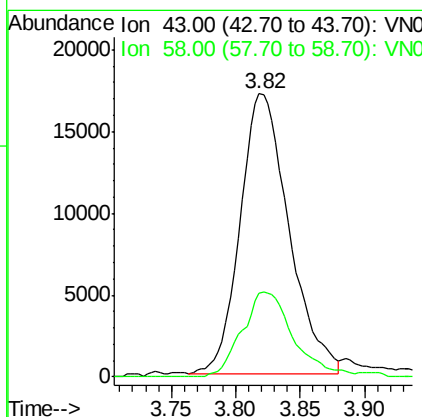
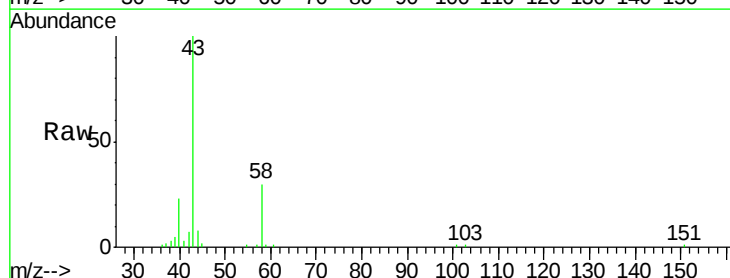
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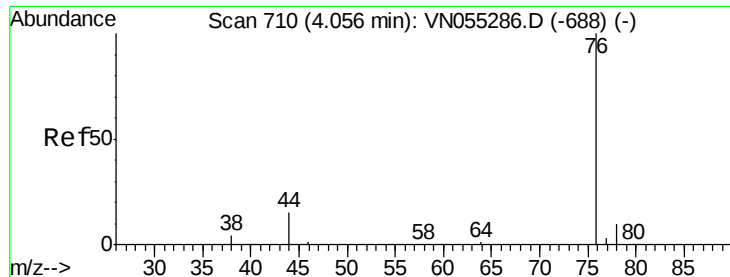
MMDadoda
 4/30/2019 11:58:49 AM



#16
 Acetone
 Concen: 24.147 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	43	Resp	45184
Ion Ratio	100	Lower	Upper
43	100		
58	30.1	23.6	35.4





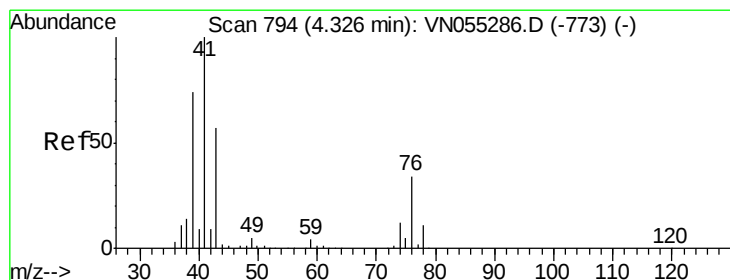
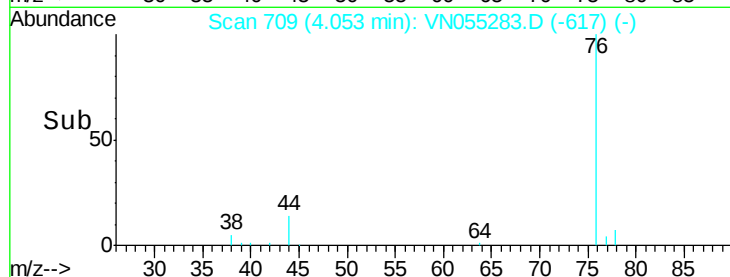
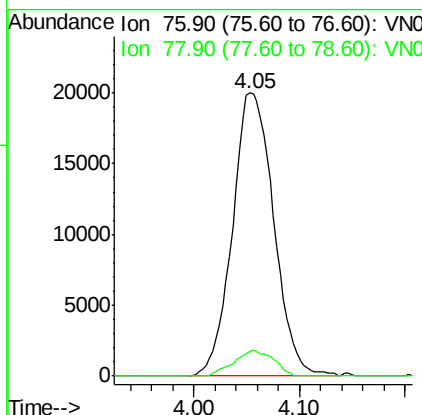
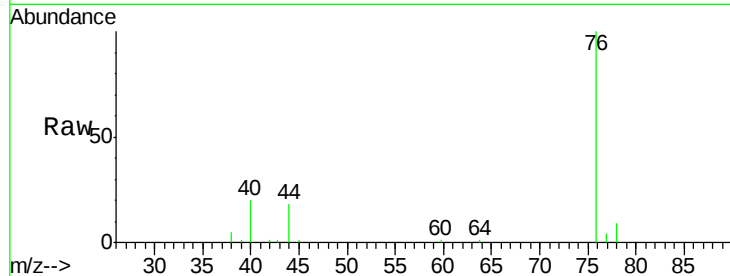
#17
Carbon Disulfide
Concen: 4.428 ug/l
RT: 4.05 min Scan# 709
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	76	Resp	54357
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.6	11.4

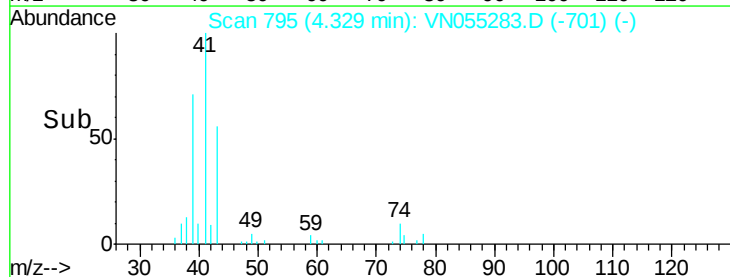
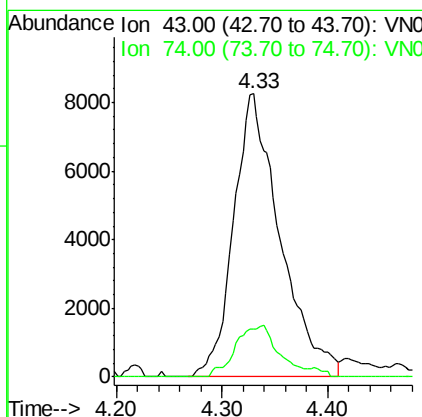
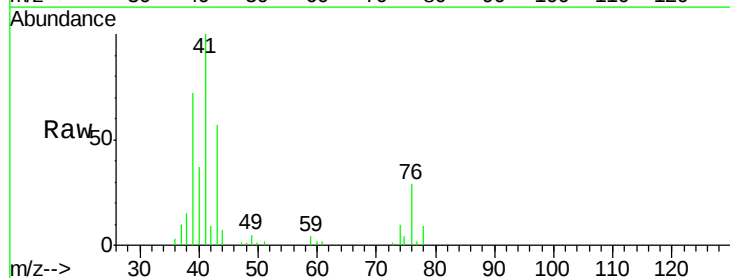
Manual Integrations
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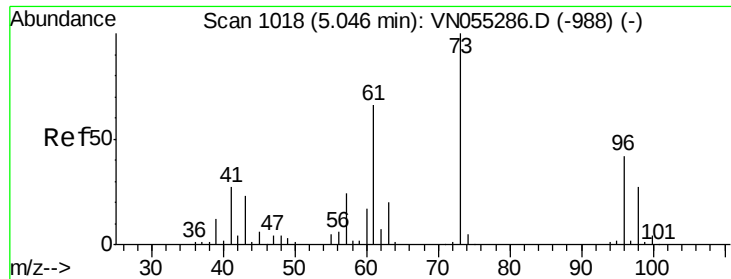
MMDadoda
4/30/2019 11:58:49 AM



#18
Methyl Acetate
Concen: 4.751 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	43	Resp	25336
Ion	Ratio	Lower	Upper
43	100		
74	16.8	15.8	23.8





#19

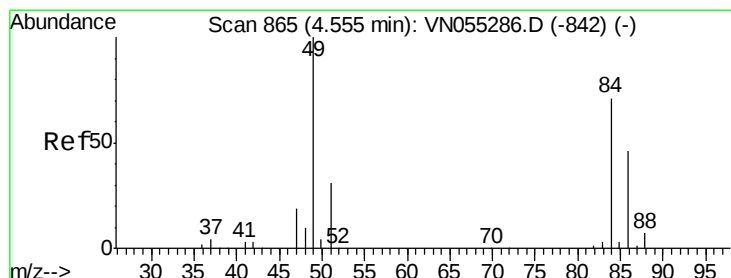
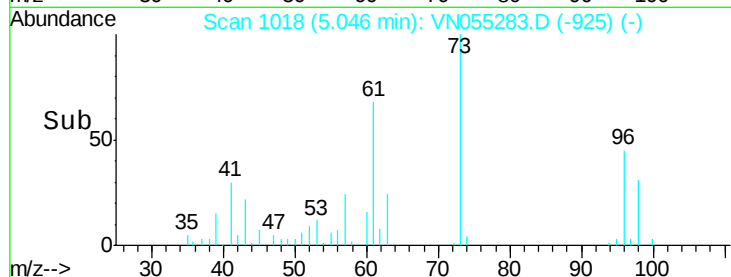
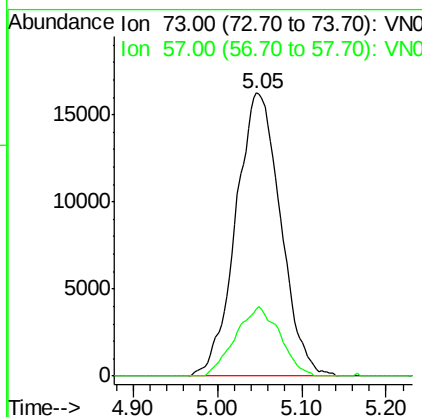
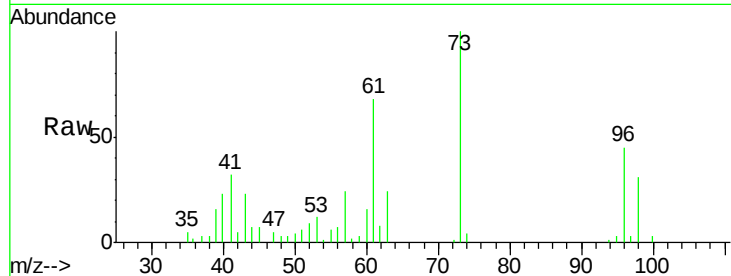
Methyl tert-butyl Ether
 Concen: 4.837 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 73 Resp: 59874
 Ion Ratio Lower Upper
 73 100
 57 23.8 19.1 28.7

Manual Integrations
 APPROVED

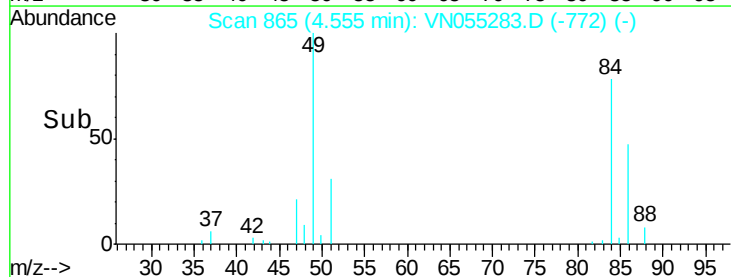
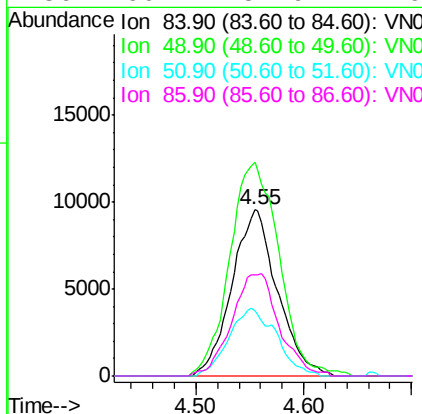
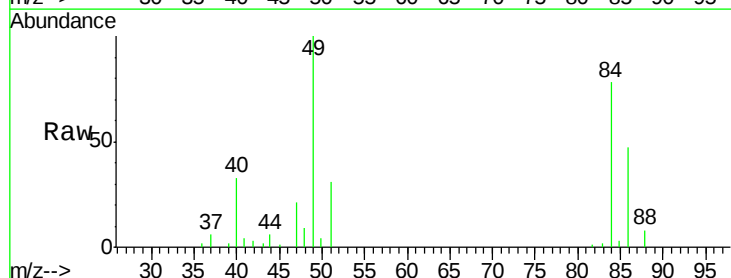
MMDadoda
 4/30/2019 11:58:49 AM

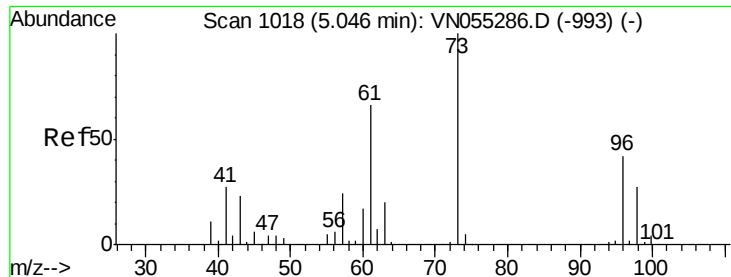


#20

Methylene Chloride
 Concen: 5.029 ug/l
 RT: 4.55 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion: 84 Resp: 28012
 Ion Ratio Lower Upper
 84 100
 49 128.6 112.4 168.6
 51 39.6 34.6 51.8
 86 60.7 51.9 77.9





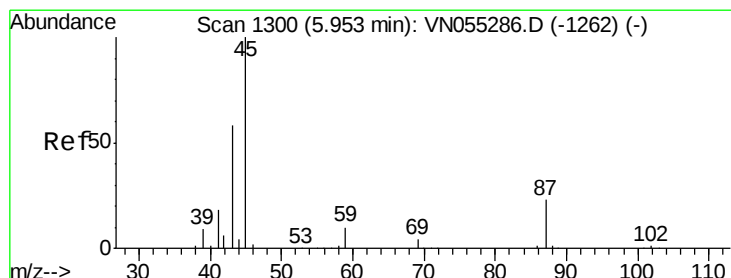
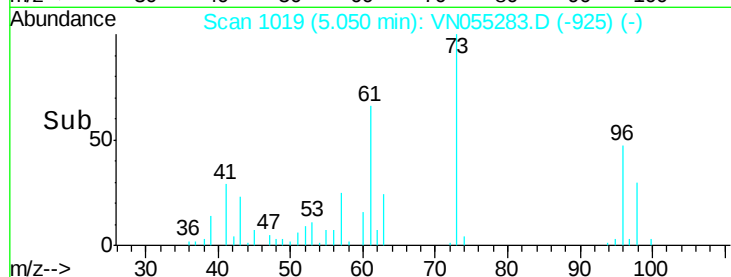
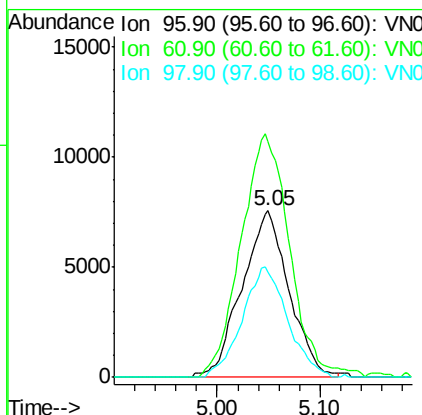
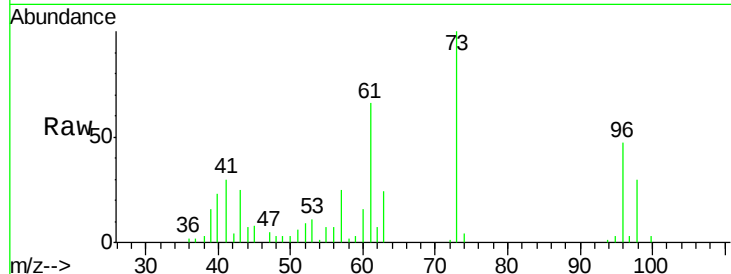
#21
trans-1,2-Dichloroethene
Concen: 5.158 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.8	126.2	189.4
98	63.5	52.2	78.2

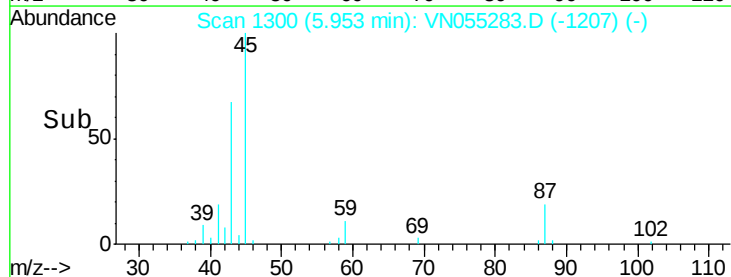
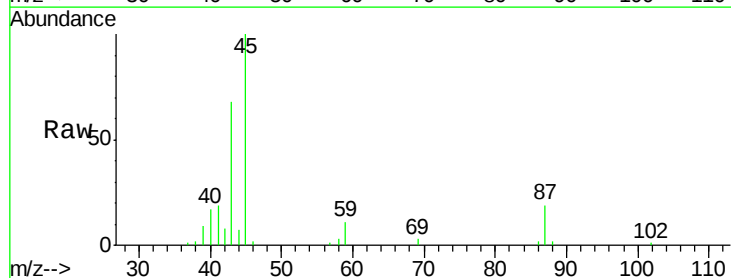
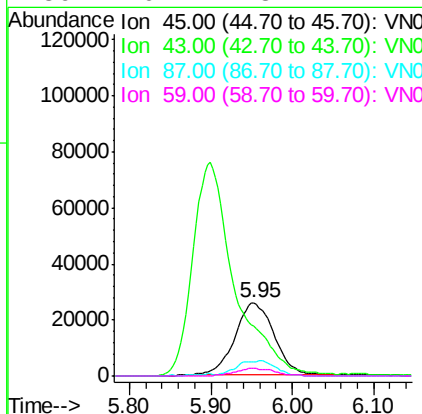
Manual Integrations
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#22
Diisopropyl ether
Concen: 4.893 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
45	100		
43	65.8	46.6	70.0
87	19.3	18.1	27.1
59	10.7	8.2	12.2





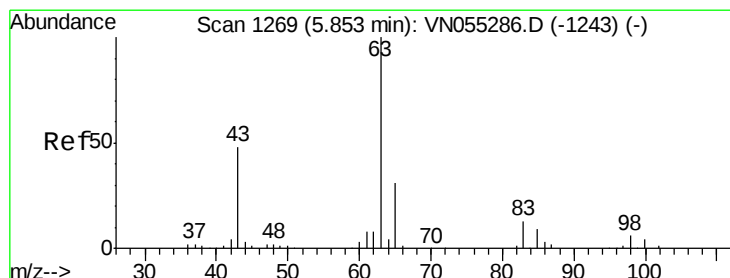
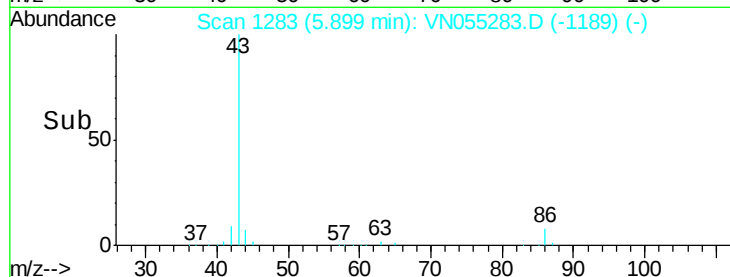
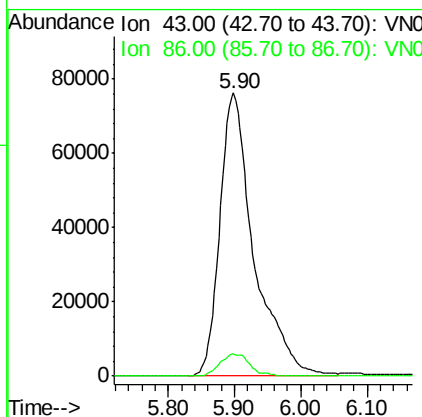
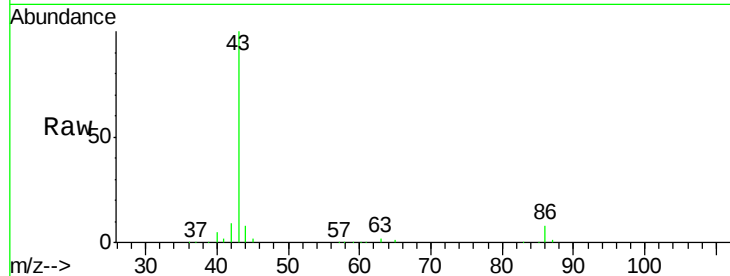
#23
 Vinyl Acetate
 Concen: 23.127 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	43	Resp	273169
Ion Ratio	100	Lower	Upper
43	100		
86	7.7	6.6	10.0

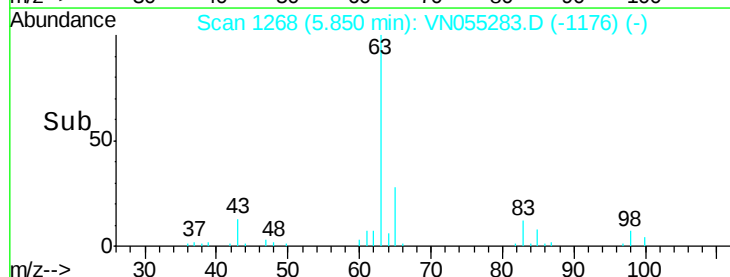
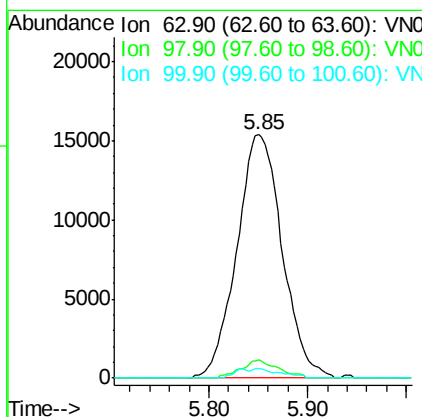
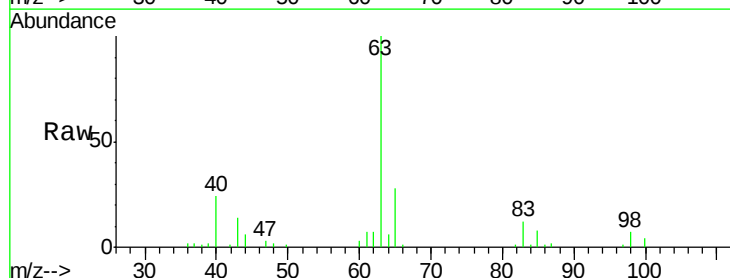
Manual Integrations
 APPROVED

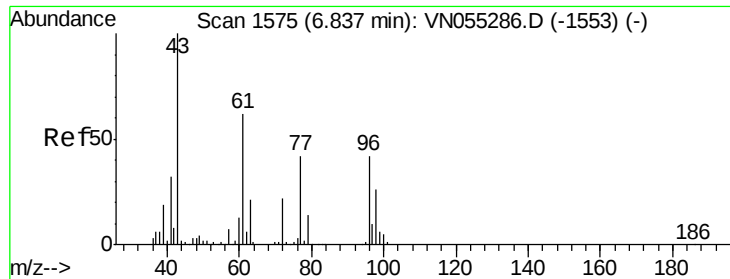
MMDadoda
 4/30/2019 11:58:49 AM



#24
 1,1-Dichloroethane
 Concen: 5.170 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	63	Resp	48907
Ion Ratio	100	Lower	Upper
63	100		
98	7.3	3.0	9.0
100	4.0	1.8	5.4





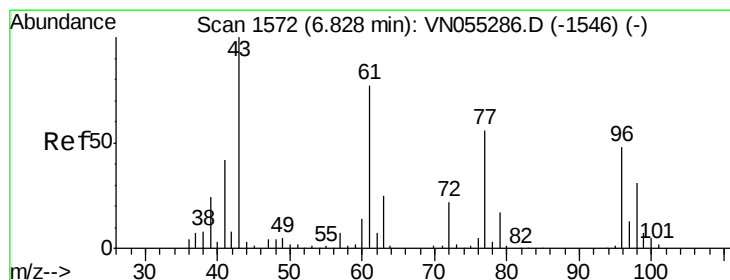
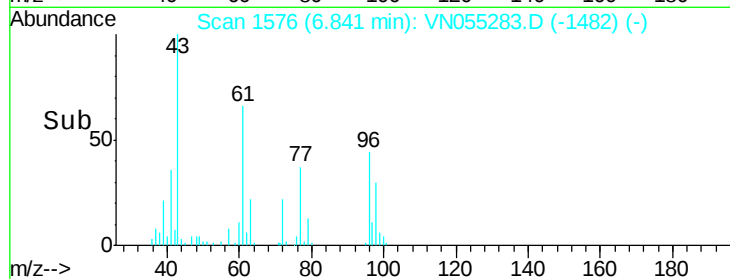
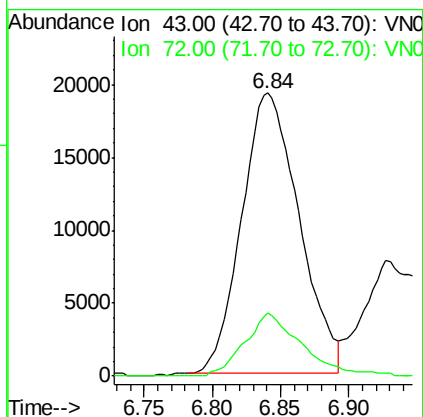
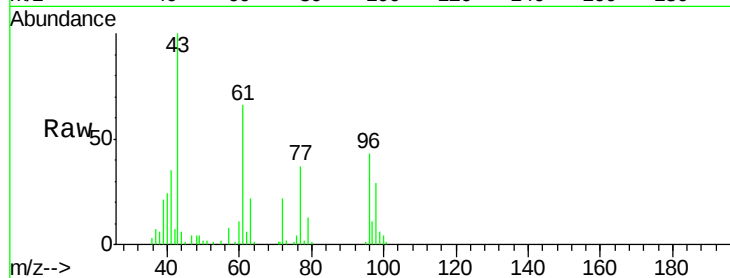
#25
2-Butanone
Concen: 22.792 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 56346
Ion Ratio Lower Upper
43 100
72 22.4 18.0 27.0

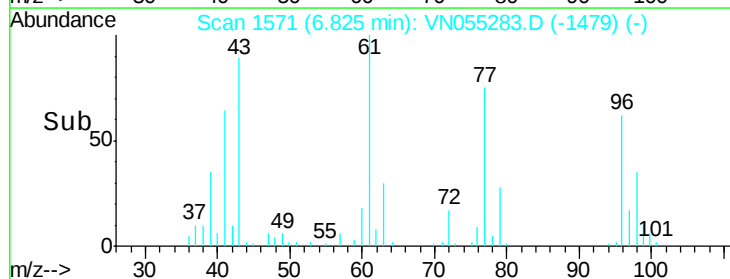
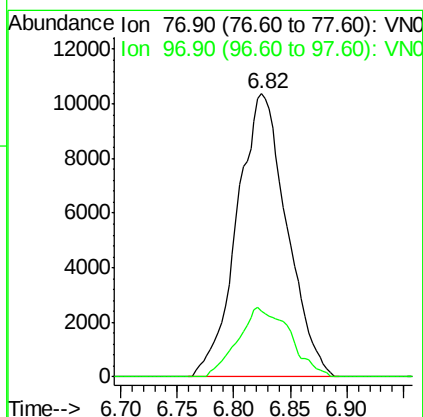
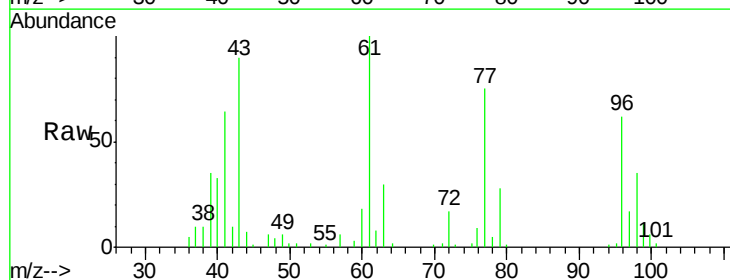
Manual Integrations
APPROVED

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#26
2,2-Dichloropropane
Concen: 4.919 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion: 77 Resp: 31665
Ion Ratio Lower Upper
77 100
97 25.6 11.4 34.2





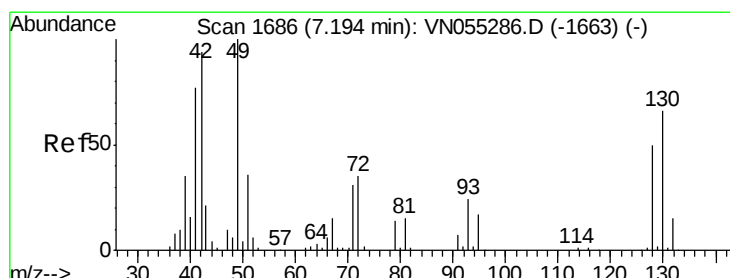
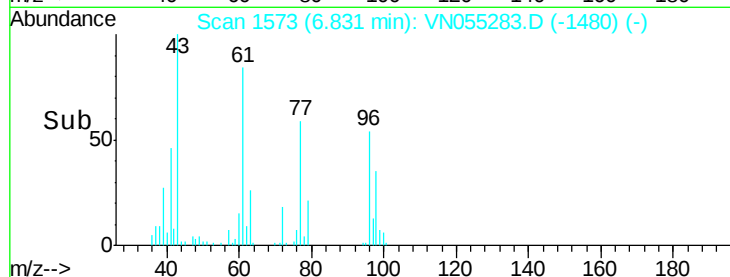
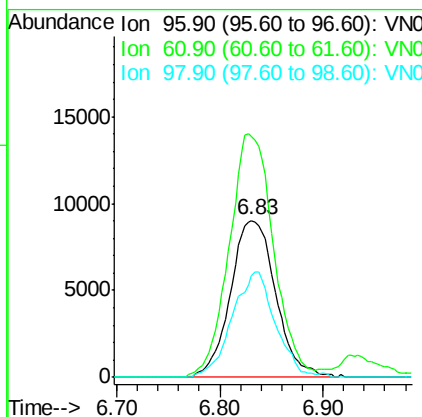
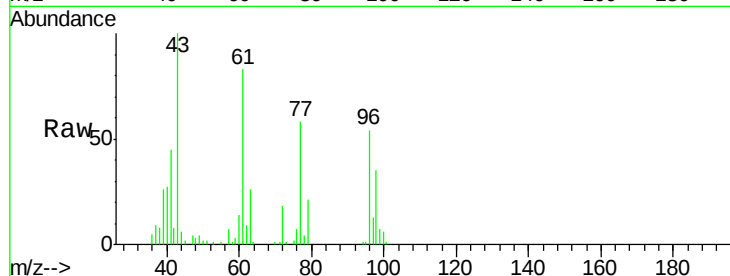
#27
 cis-1,2-Dichloroethene
 Concen: 5.110 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	152.4	0.0	316.2	
98	64.2	0.0	126.6	

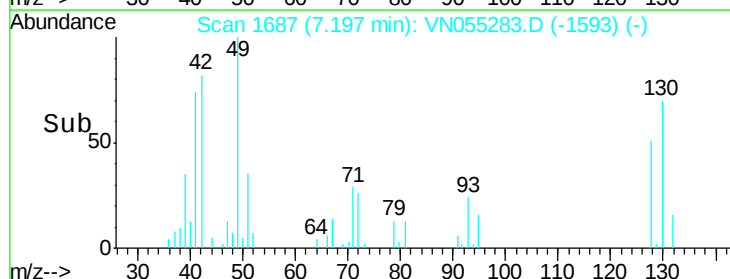
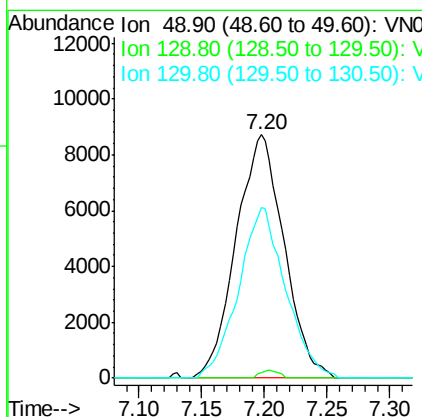
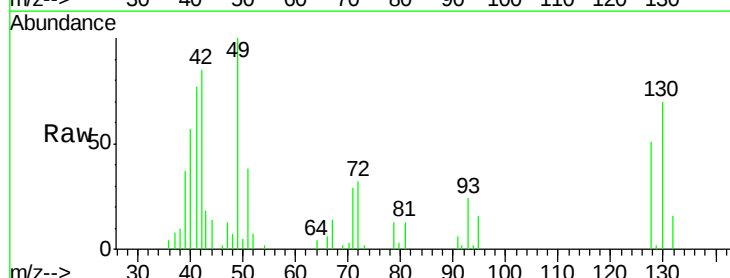
Manual Integrations
 APPROVED

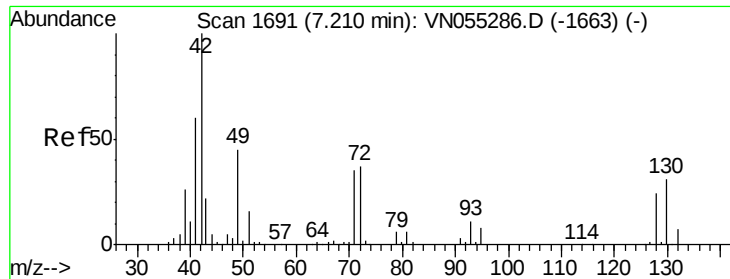
MMDadoda
 4/30/2019 11:58:49 AM



#28
 Bromochloromethane
 Concen: 4.804 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.3	0.0	2.4	
130	68.7	52.0	78.0	





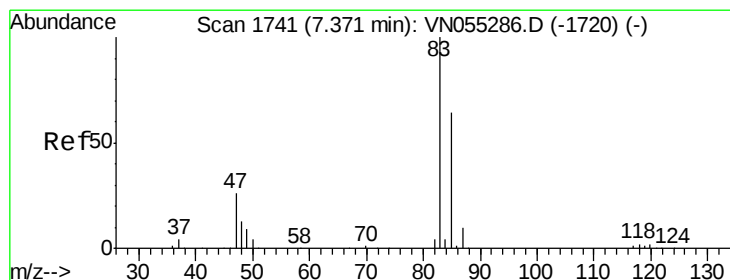
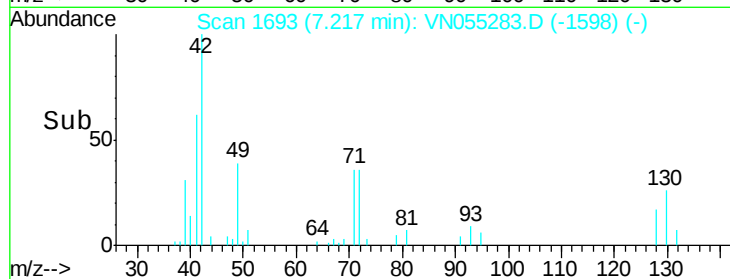
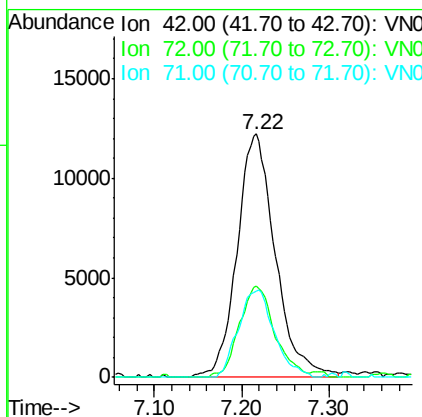
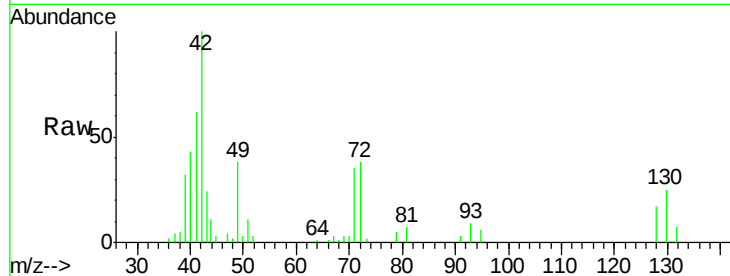
#29
Tetrahydrofuran
Concen: 24.050 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.8	29.0	43.6
71	33.8	27.1	40.7

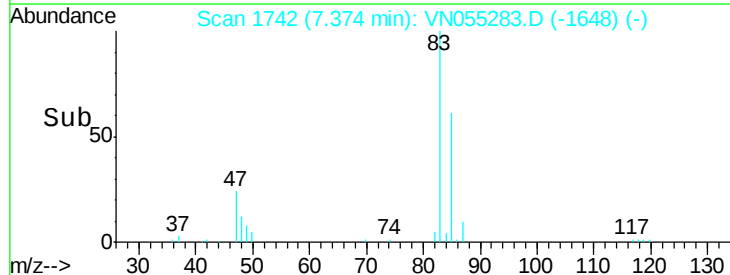
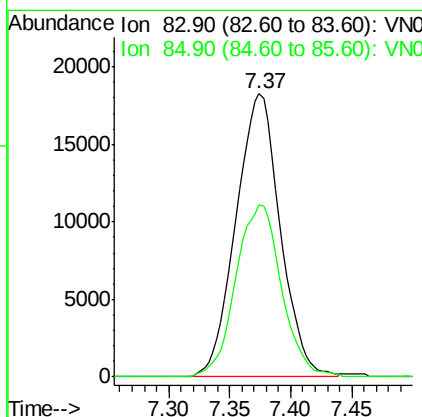
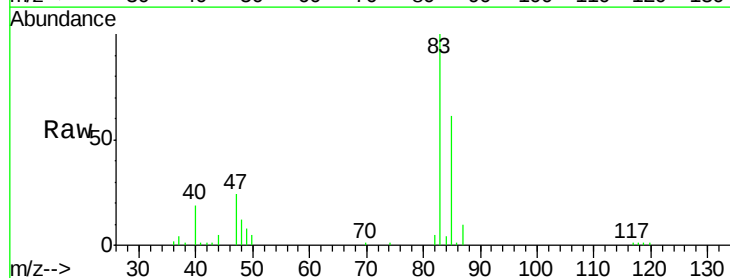
Manual Integrations
APPROVED

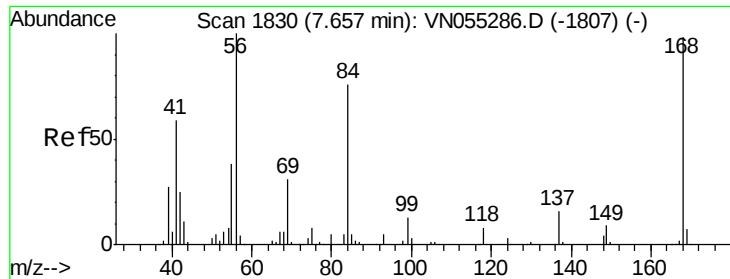
MMDadoda
4/30/2019 11:58:49 AM



#30
Chloroform
Concen: 5.104 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.6	51.4	77.2





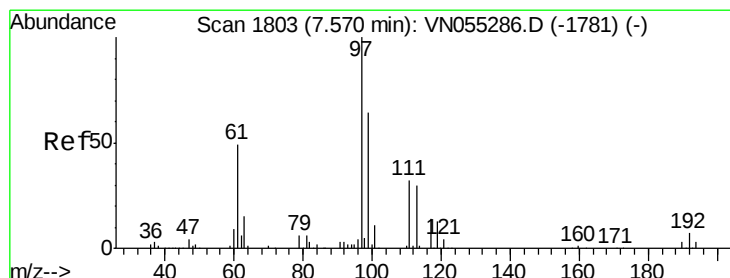
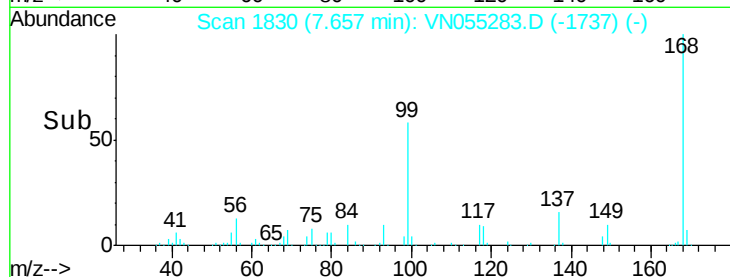
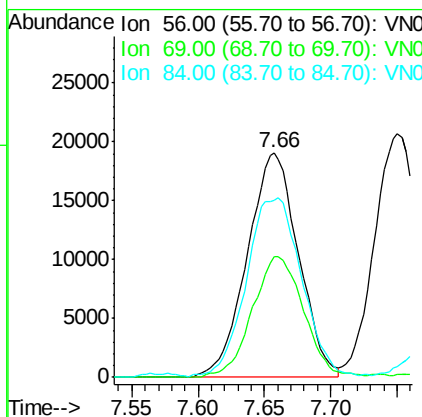
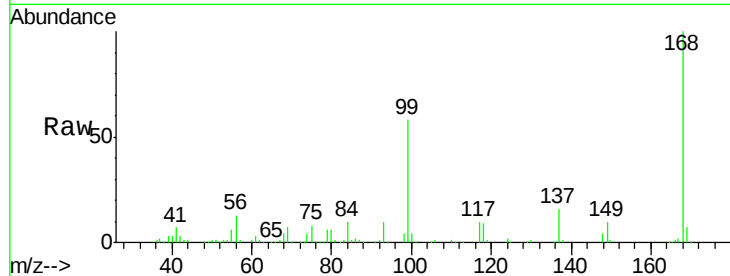
#31
Cyclohexane
Concen: 4.726 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	53.8	25.2	37.8#
84	78.5	61.1	91.7

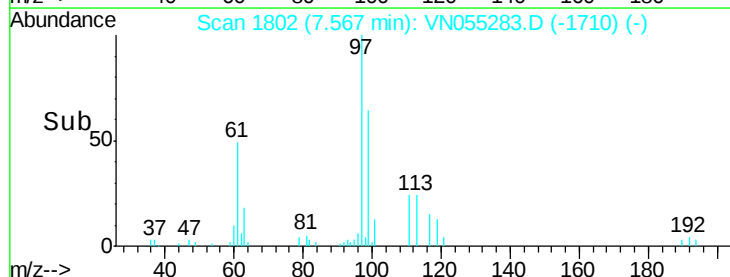
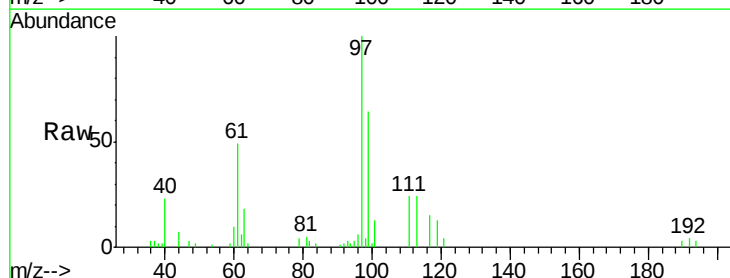
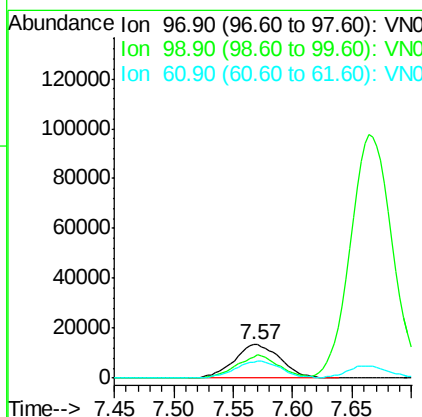
Manual Integrations
APPROVED

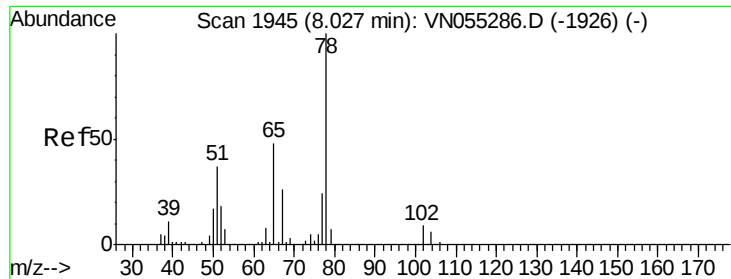
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 4.974 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.8	77.8
61	50.6	39.0	58.6





#33

1,2-Dichloroethane-d4

Concen: 4.829 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 65 Resp: 28371

Ion Ratio Lower Upper

65 100

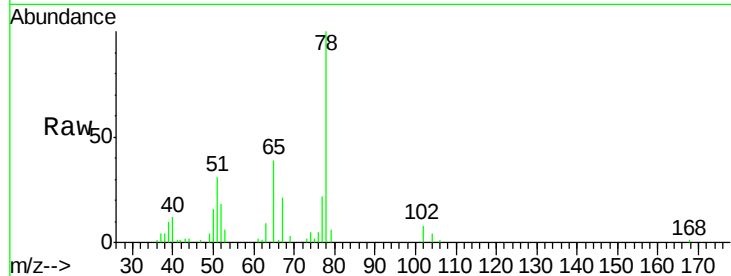
67 55.0 0.0 106.8

Manual Integrations

APPROVED

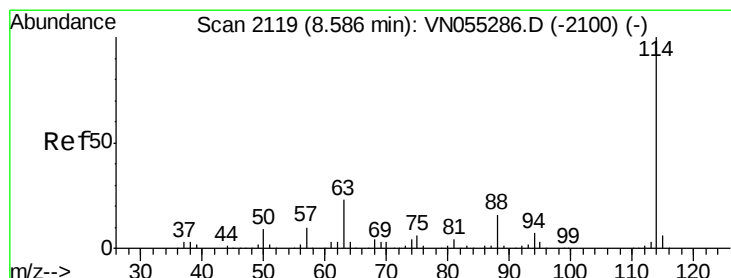
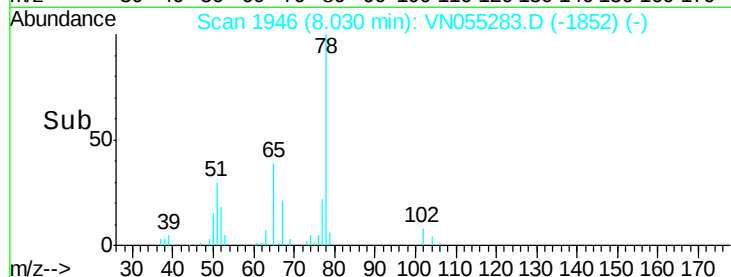
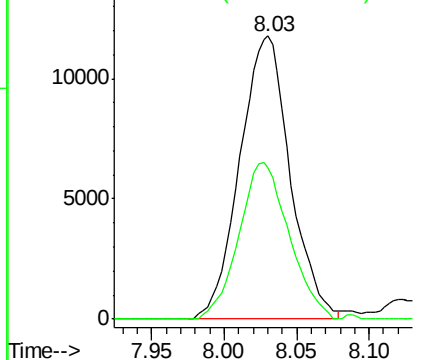
MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

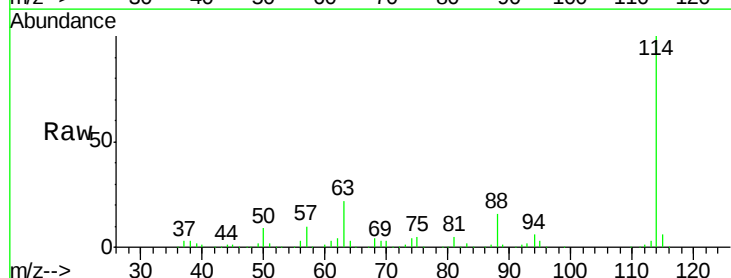
Tgt Ion: 114 Resp: 684632

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.2

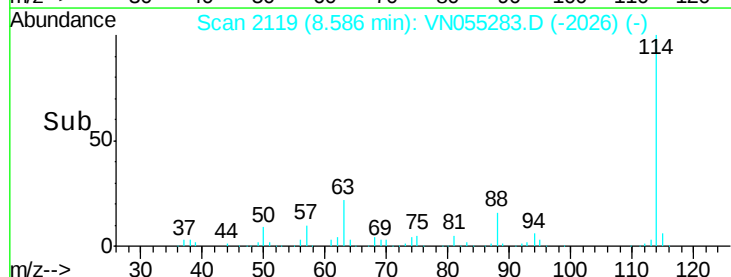
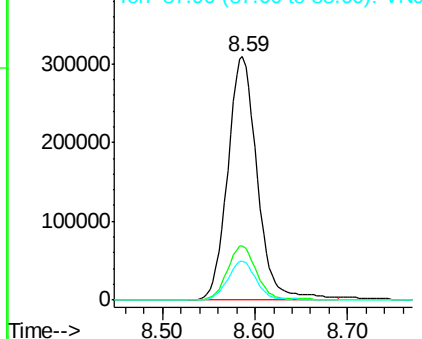
88 16.2 0.0 31.6

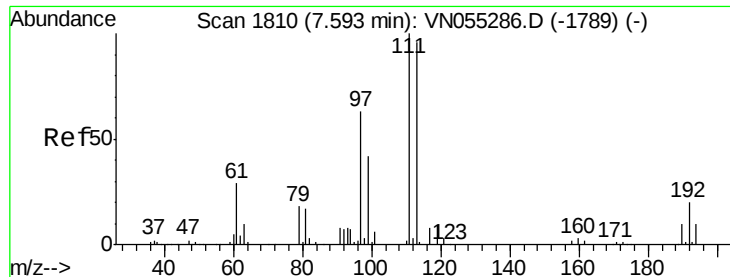


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





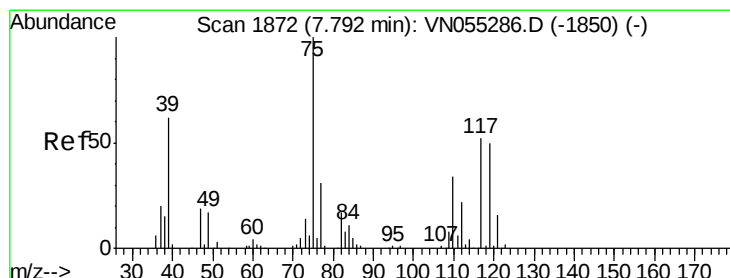
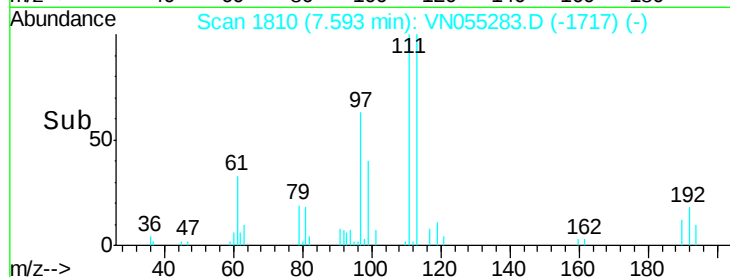
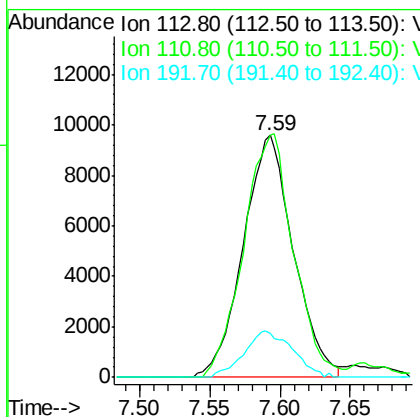
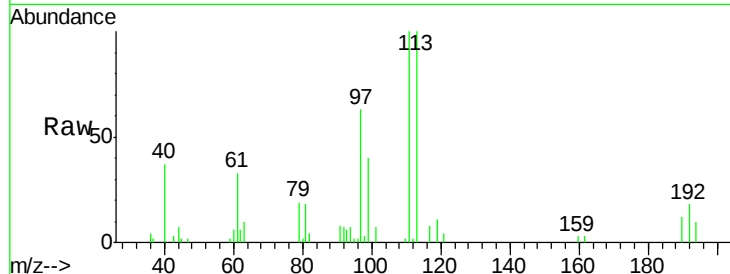
#35
Dibromofluoromethane
Concen: 5.173 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.2	82.3	123.5
192	18.5	17.0	25.6

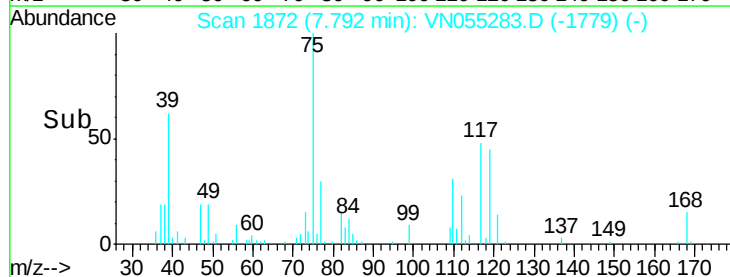
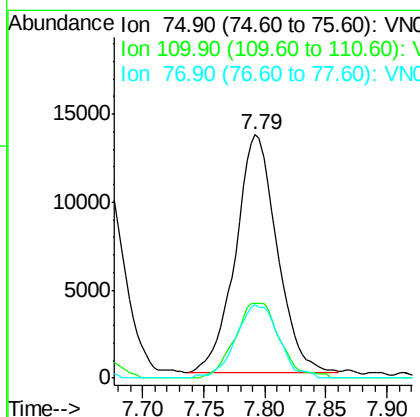
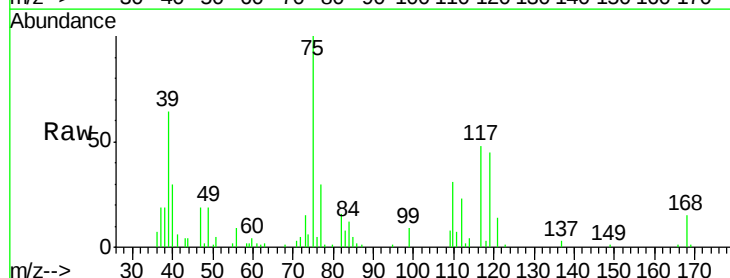
Manual Integrations
APPROVED

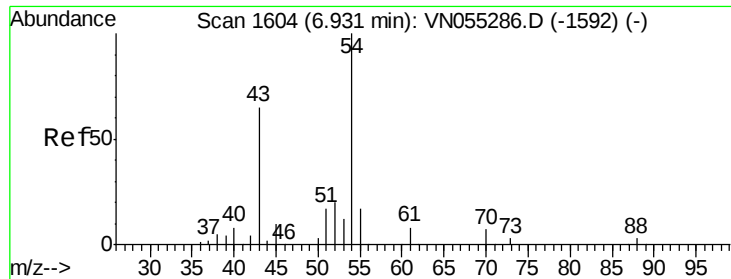
MMDadoda
4/30/2019 11:58:49 AM



#36
1,1-Dichloropropene
Concen: 5.088 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.8	50.4
77	32.0	25.0	37.6





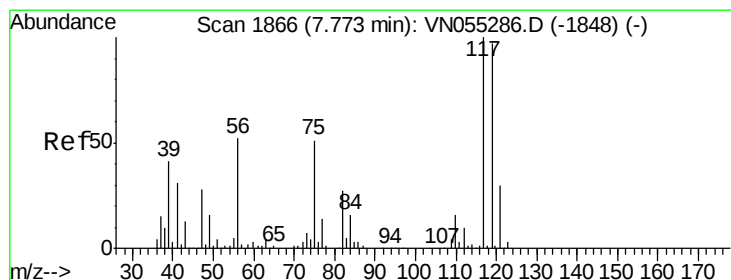
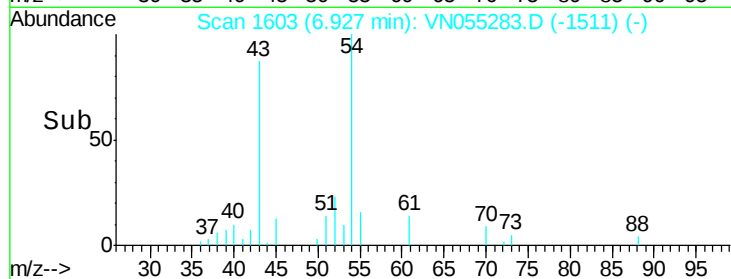
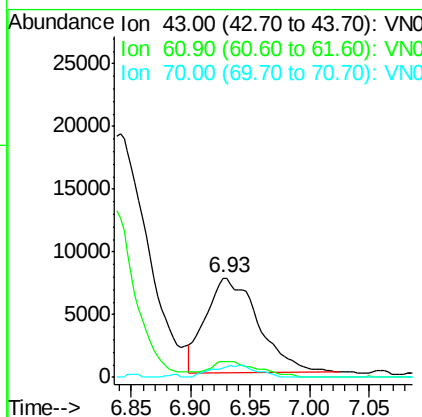
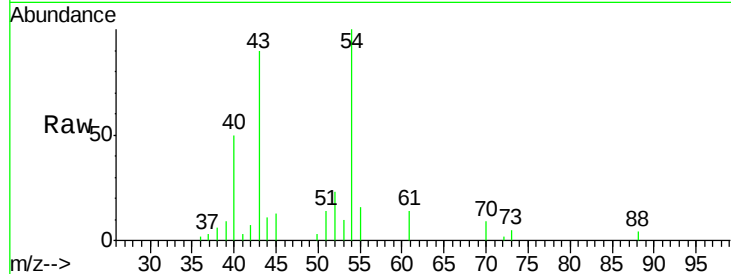
#37
Ethyl Acetate
Concen: 4.648 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.4	15.6
70	10.5	6.6	10.0

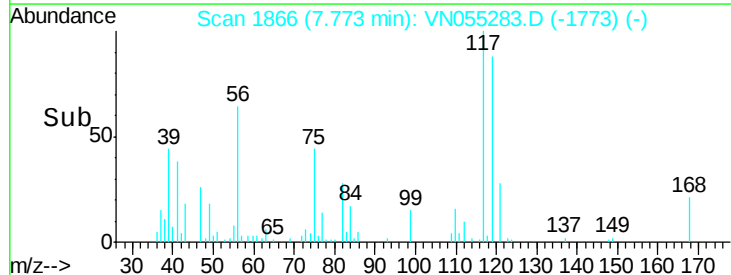
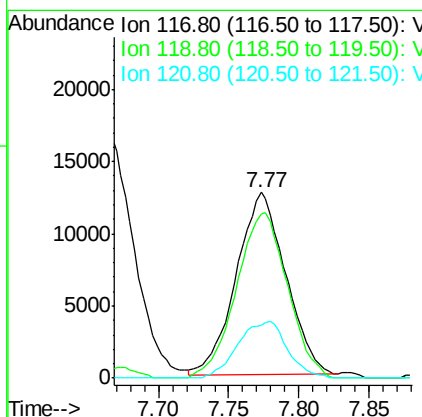
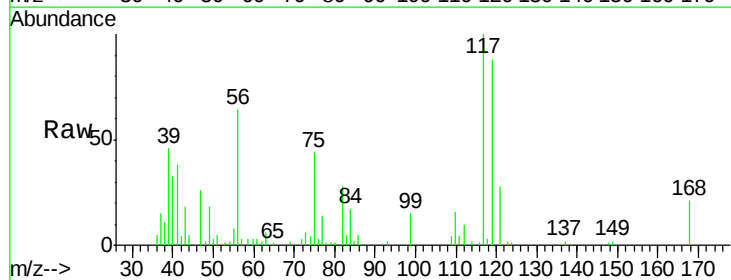
Manual Integrations
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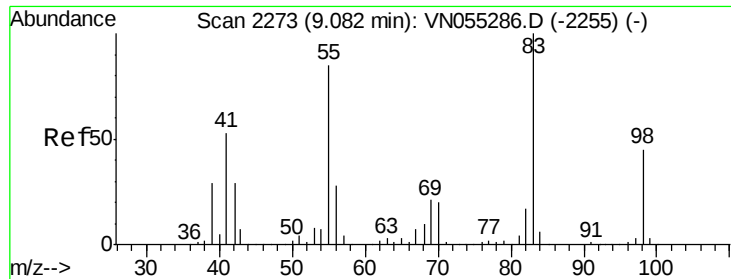
MMDadoda
4/30/2019 11:58:49 AM



#38
Carbon Tetrachloride
Concen: 5.262 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.3	77.0	115.6
121	29.0	23.8	35.8





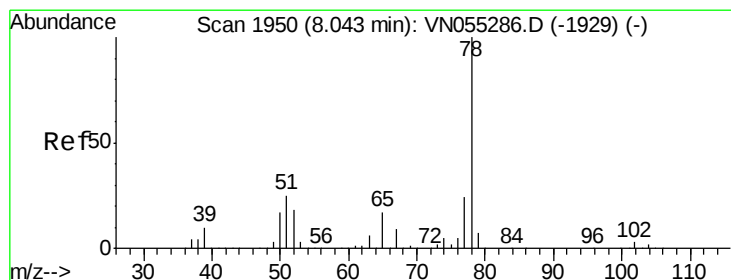
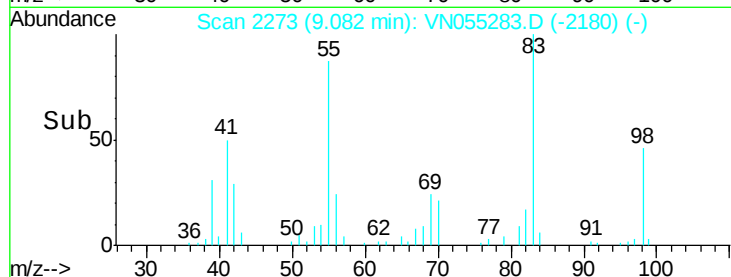
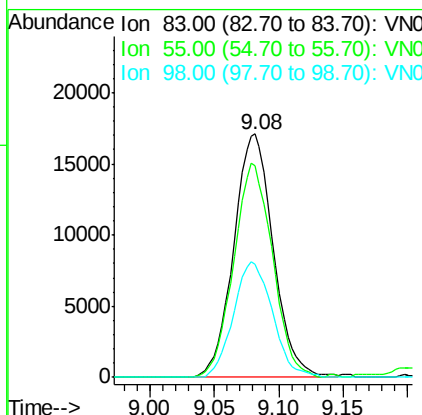
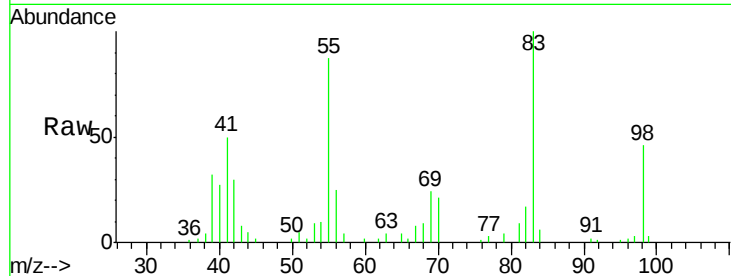
#39
Methvlcvclohexane
Concen: 4.890 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	36515
Ion Ratio	Lower	Upper	
83	100		
55	87.1	67.8	101.6
98	46.4	36.2	54.4

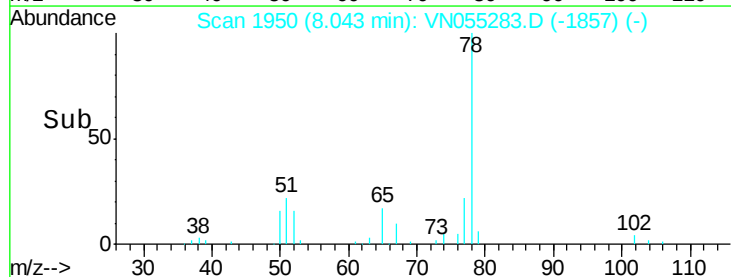
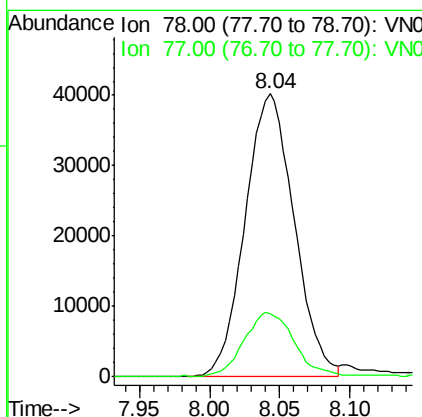
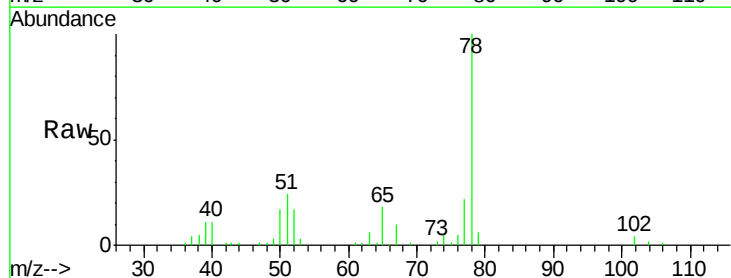
Manual Integrations
APPROVED

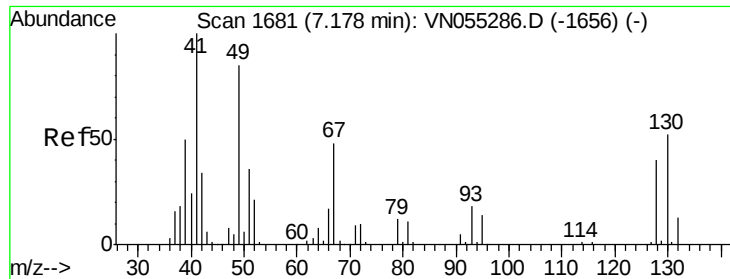
MMDadoda
4/30/2019 11:58:49 AM



#40
Benzene
Concen: 5.031 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	78	Resp	97956
Ion Ratio	Lower	Upper	
78	100		
77	22.2	19.0	28.6





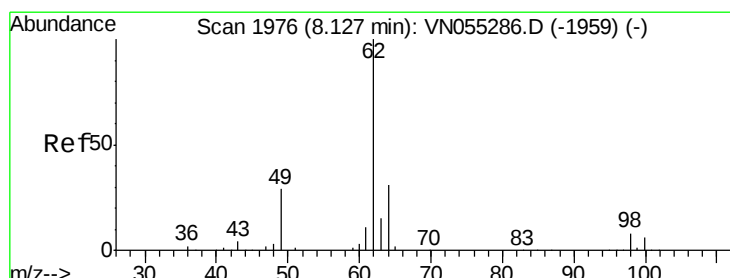
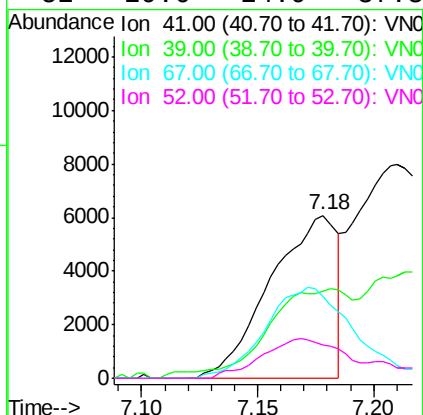
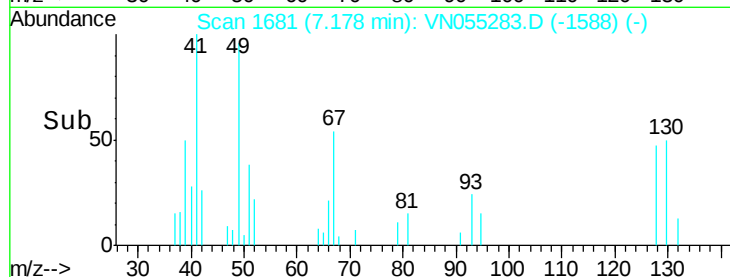
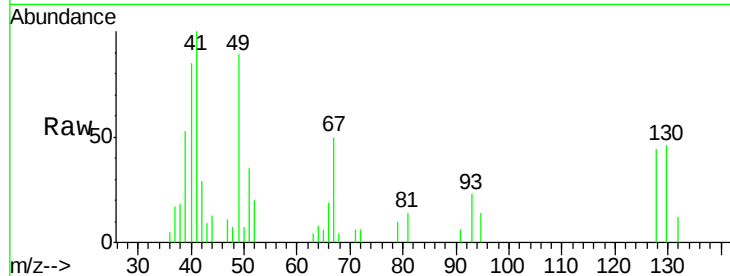
#41
Methacrylonitrile
Concen: 4.552 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	68.8	48.5	72.7	
67	73.2	54.9	82.3	
52	29.6	24.9	37.3	

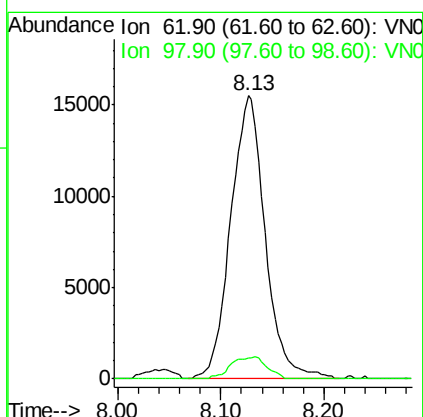
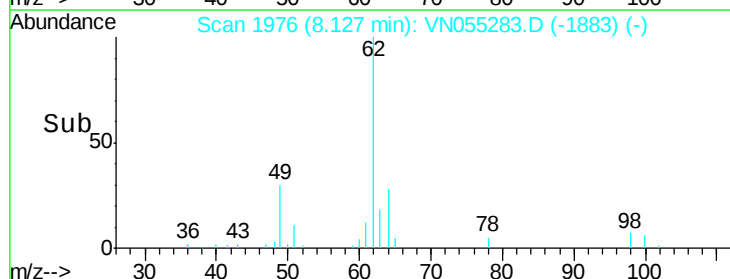
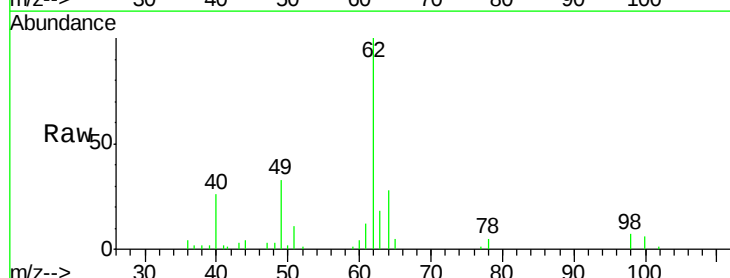
Manual Integrations
APPROVED

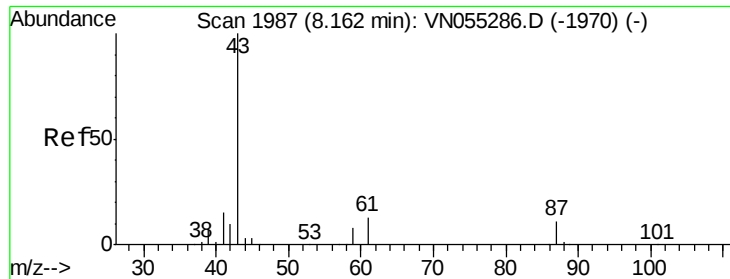
MMDadoda
4/30/2019 11:58:49 AM



#42
1,2-Dichloroethane
Concen: 5.305 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.1	0.0	16.4	





#43

Isopropyl Acetate

Concen: 4.714 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

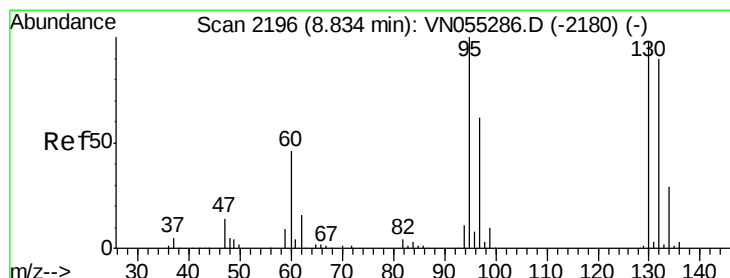
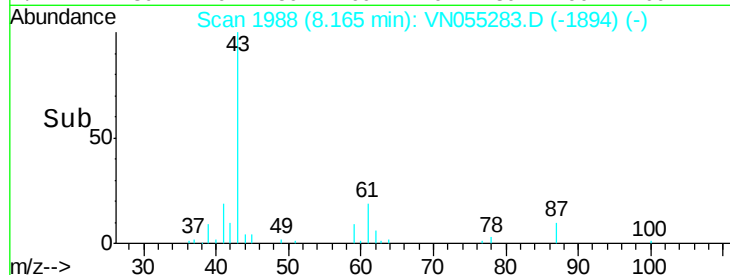
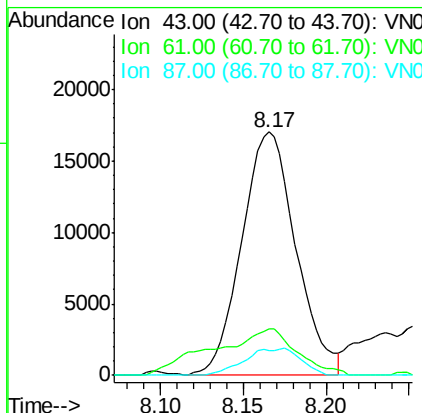
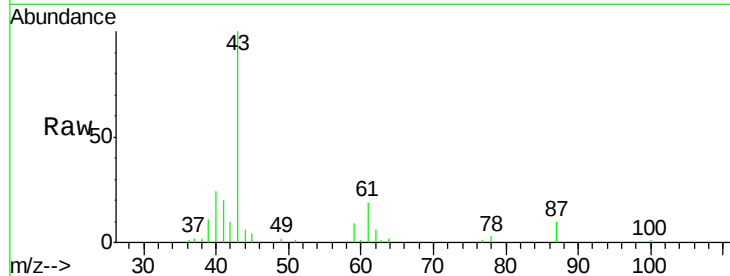
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	38853
Ion	Ratio	Lower	Upper
43	100		
61	29.5	20.8	31.2
87	11.5	8.5	12.7

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#44

Trichloroethene

Concen: 4.922 ug/l

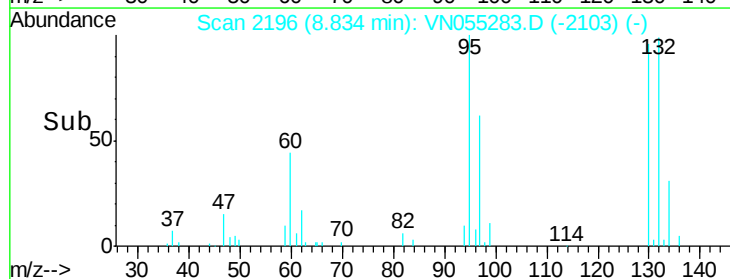
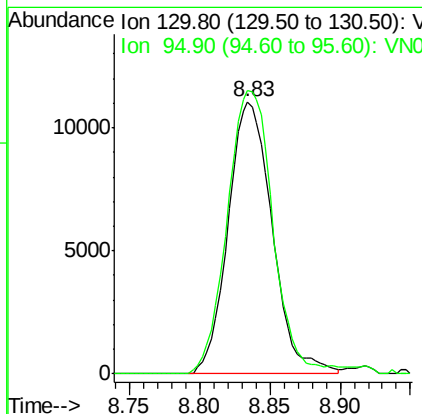
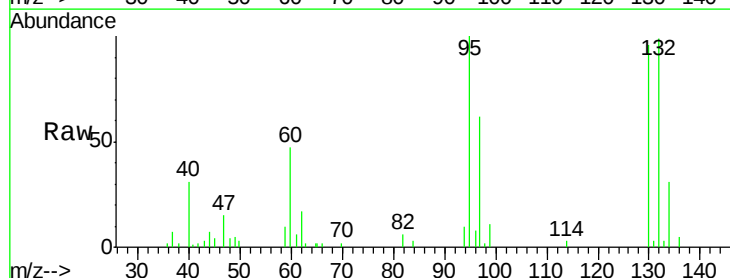
RT: 8.83 min Scan# 2196

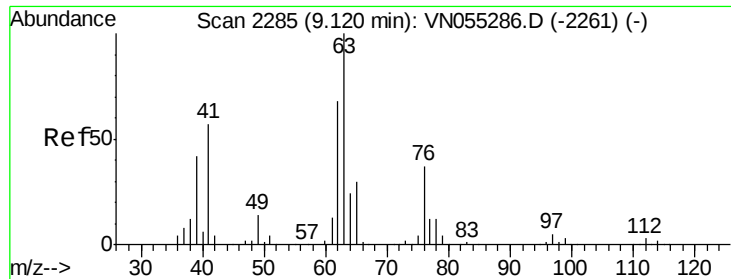
Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Tgt Ion:	130	Resp:	24167
Ion	Ratio	Lower	Upper
130	100		
95	103.9	0.0	203.4





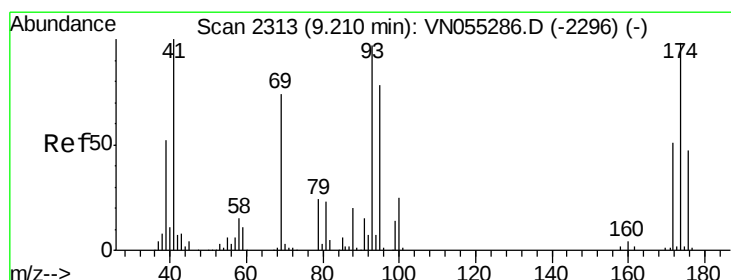
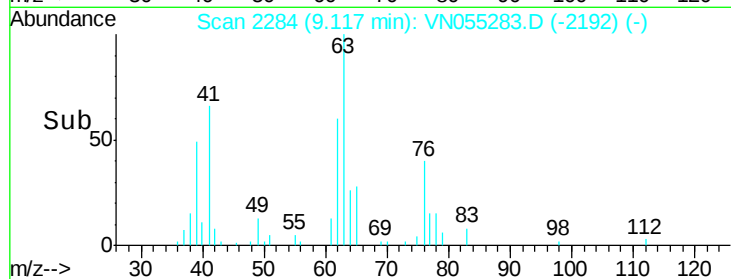
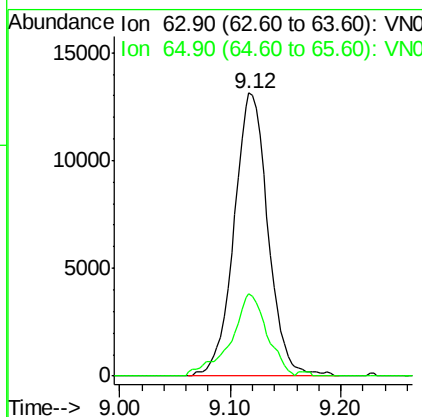
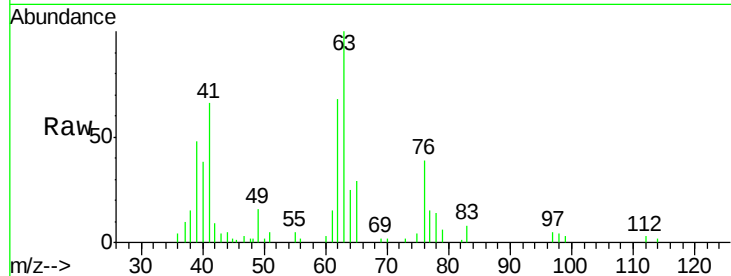
#45
 1,2-Dichloropropane
 Concen: 5.083 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 28013
 Ion Ratio Lower Upper
 63 100
 65 29.3 23.9 35.9

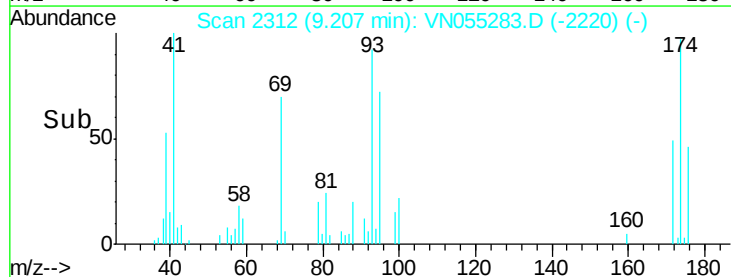
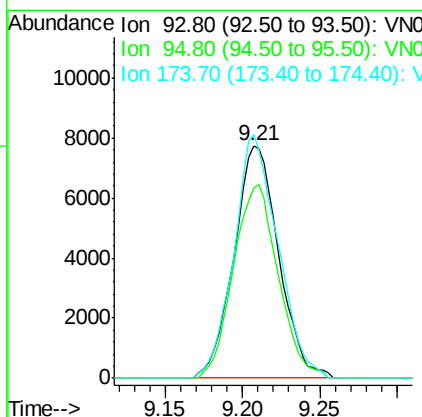
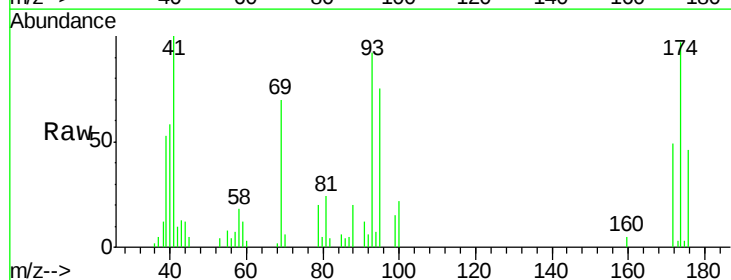
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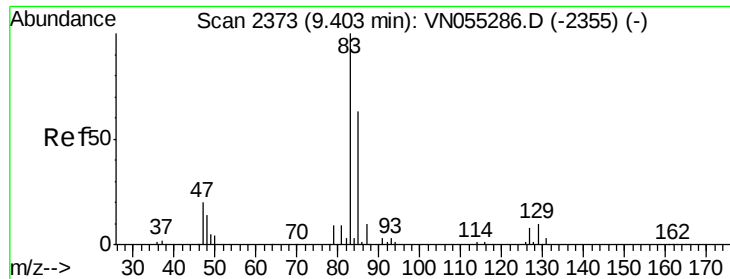
MMDadoda
 4/30/2019 11:58:49 AM



#46
 Dibromomethane
 Concen: 4.956 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion: 93 Resp: 15552
 Ion Ratio Lower Upper
 93 100
 95 83.3 65.7 98.5
 174 102.6 81.5 122.3





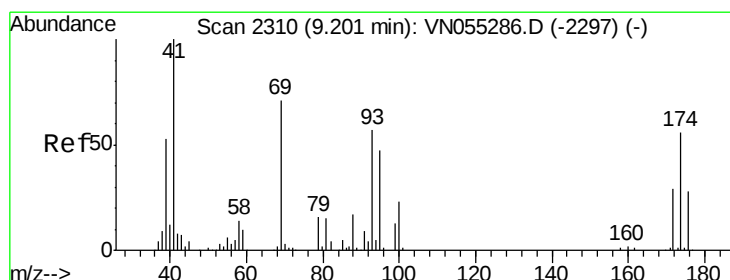
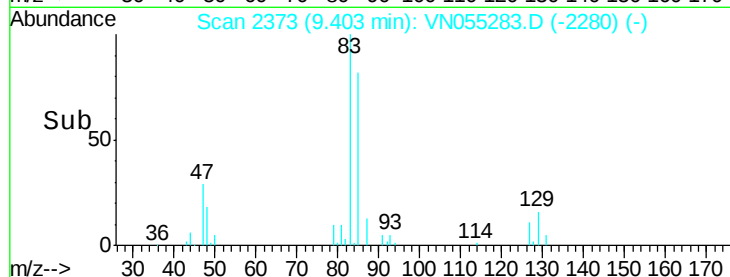
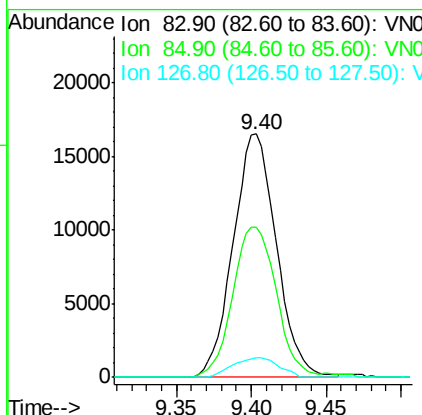
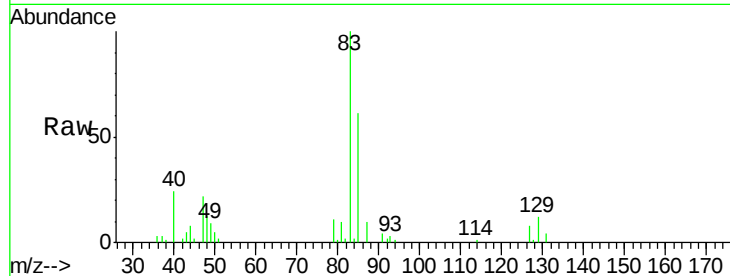
#47
Bromodichloromethane
Concen: 5.263 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	33213
Ion Ratio	100	Lower	Upper
83	100		
85	61.5	50.1	75.1
127	8.1	6.7	10.1

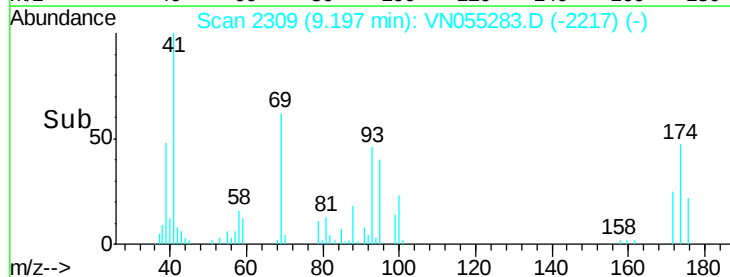
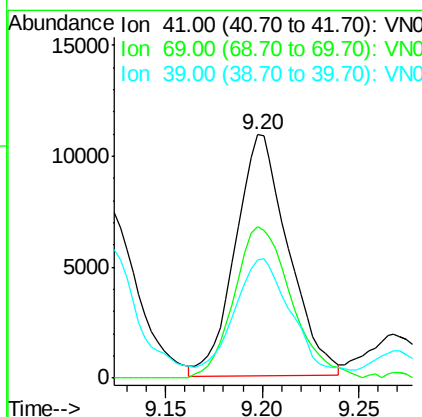
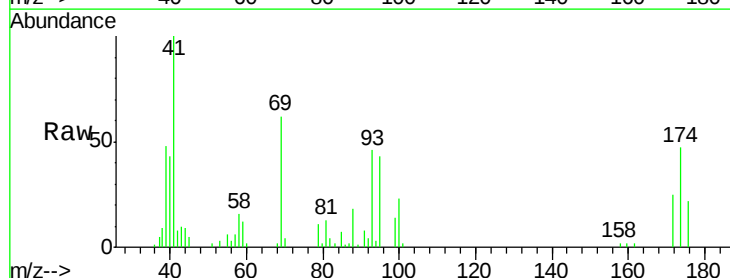
Manual Integrations
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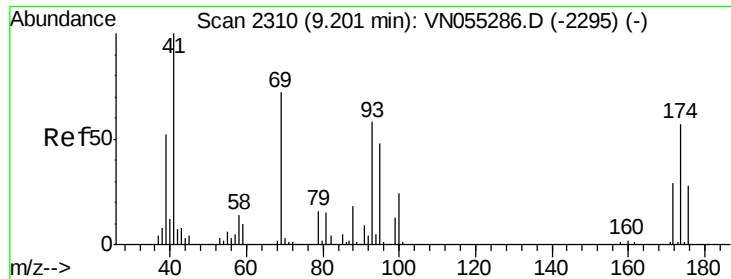
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4/30/2019 11:58:49 AM



#48
Methyl methacrylate
Concen: 5.150 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	41	Resp	20701
Ion Ratio	100	Lower	Upper
41	100		
69	68.0	58.6	87.8
39	53.0	43.8	65.6





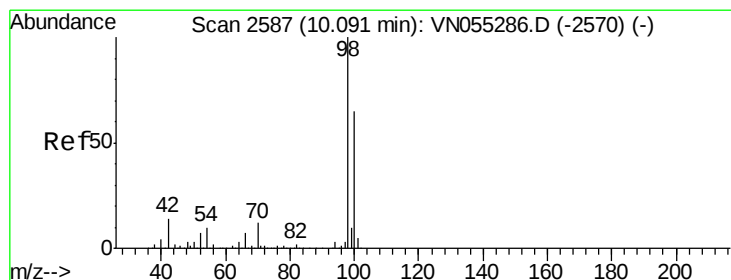
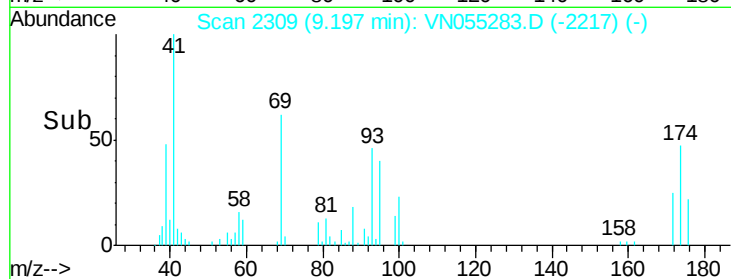
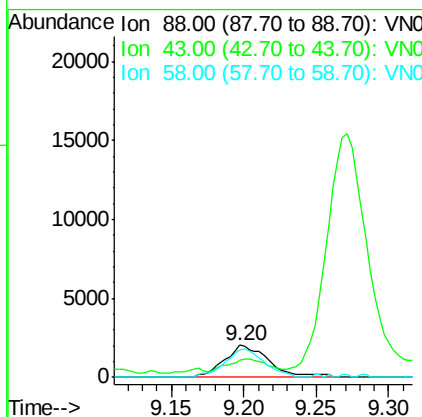
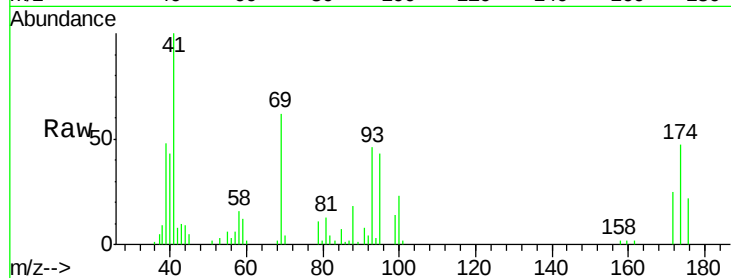
#49
 1,4-Dioxane
 Concen: 97.029 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	33.3	49.9#
58	77.5	62.7	94.1

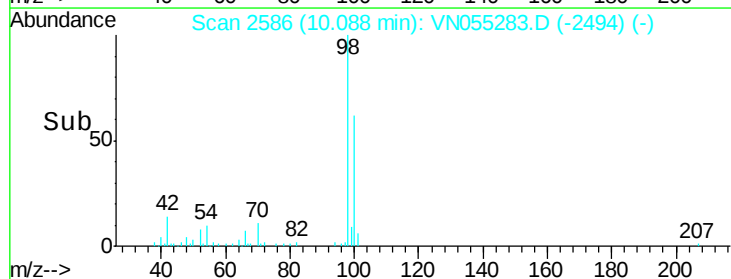
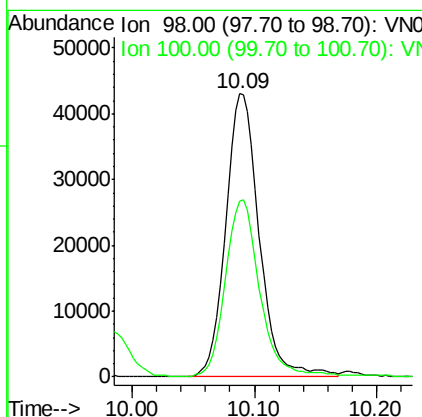
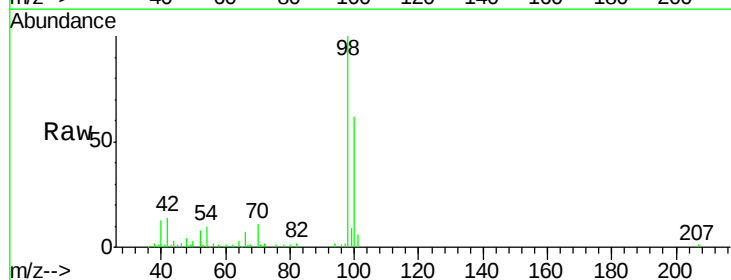
Manual Integrations
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 4/30/2019 11:58:49 AM



#50
 Toluene-d8
 Concen: 4.846 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 24.206 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 114766

Ion Ratio Lower Upper

43 100

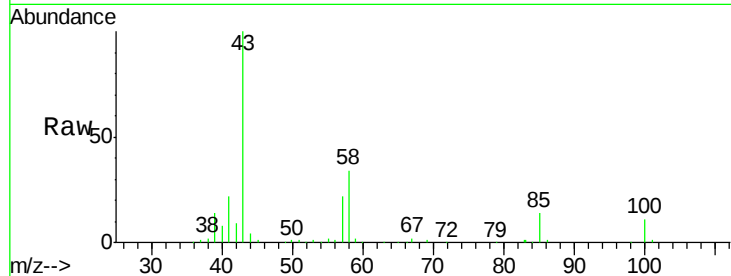
58 34.8 28.5 42.7

Manual Integrations

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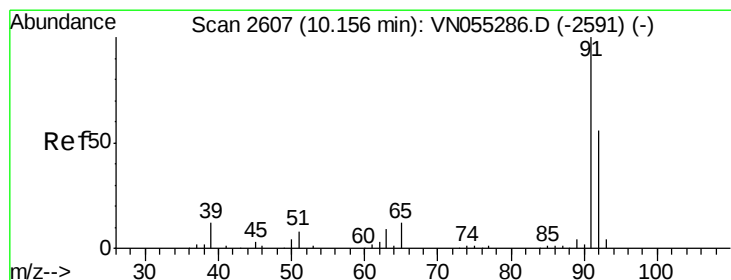
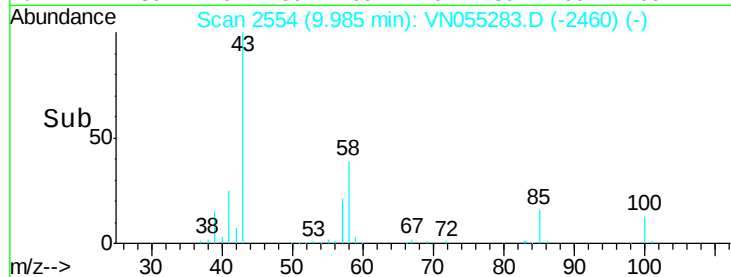
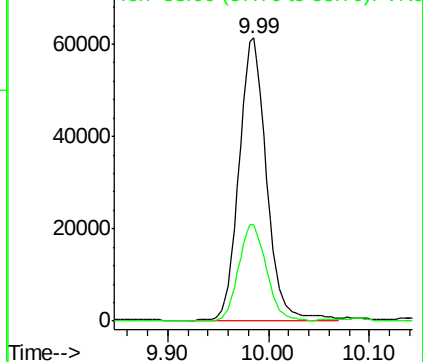
MMDadoda

4/30/2019 11:58:49 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.968 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055283.D

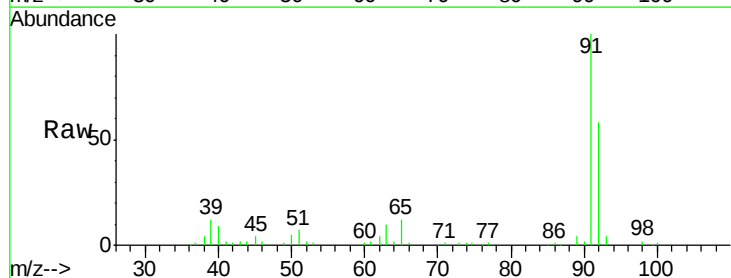
Acq: 29 Apr 2019 10:16

Tgt Ion: 92 Resp: 56426

Ion Ratio Lower Upper

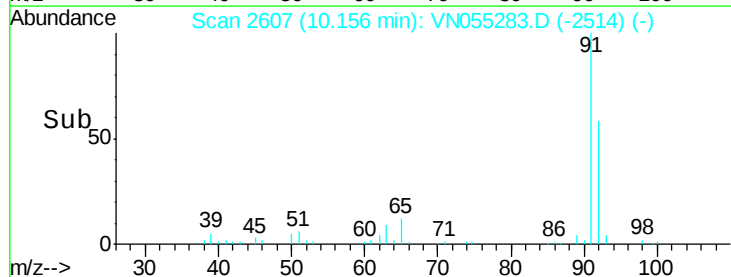
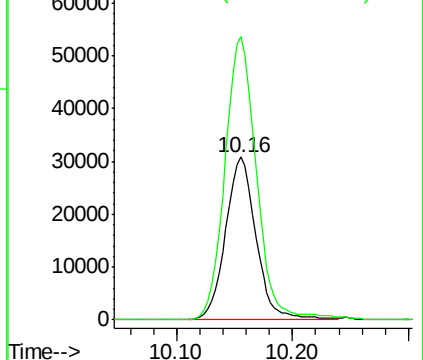
92 100

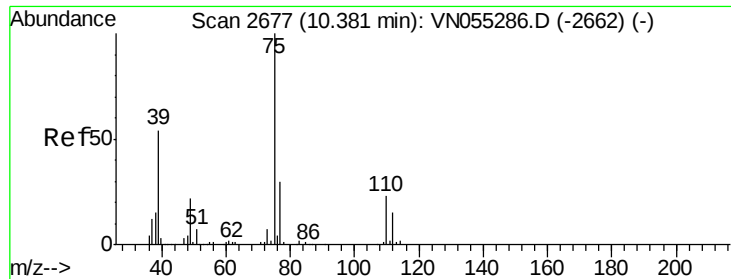
91 176.0 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





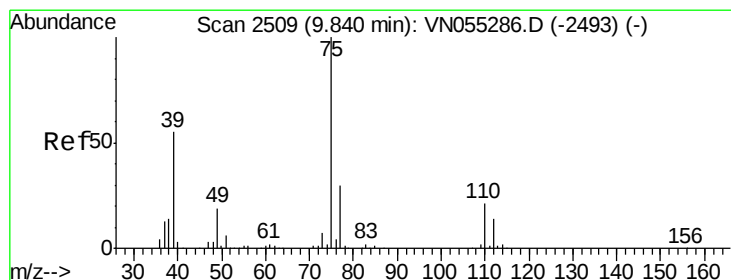
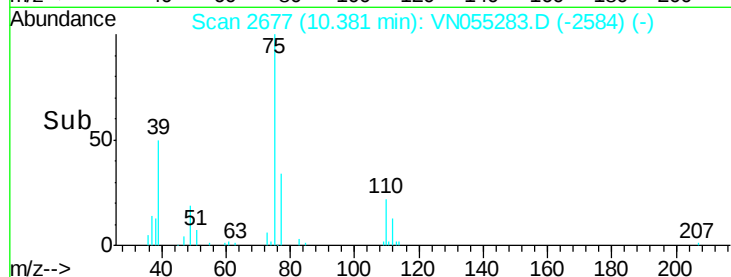
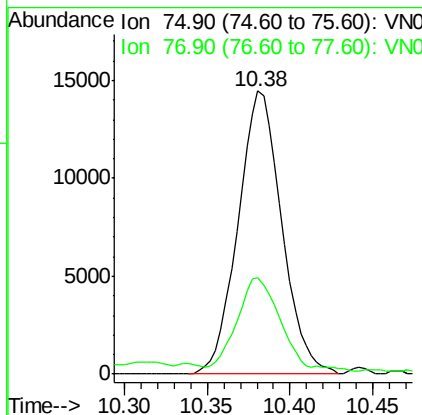
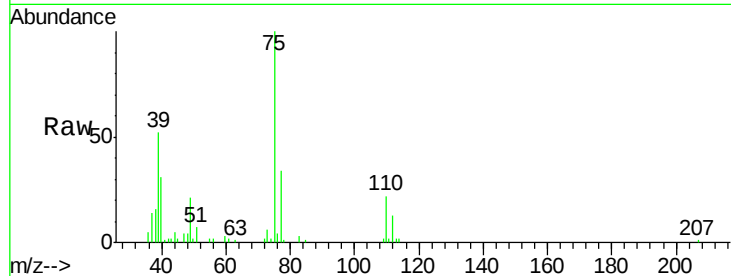
#53
t-1,3-Dichloropropene
Concen: 4.569 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 26448
Ion Ratio Lower Upper
75 100
77 32.0 24.4 36.6

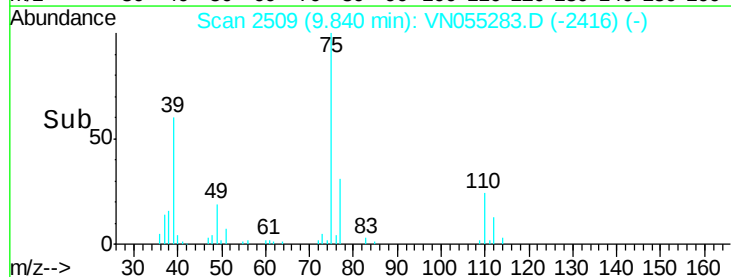
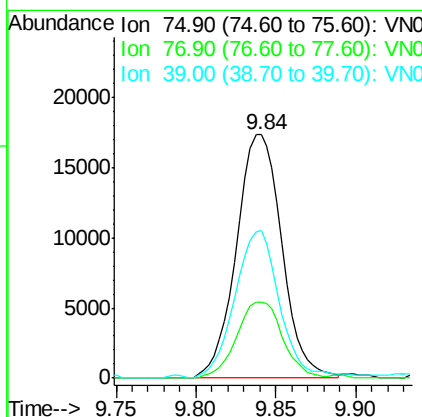
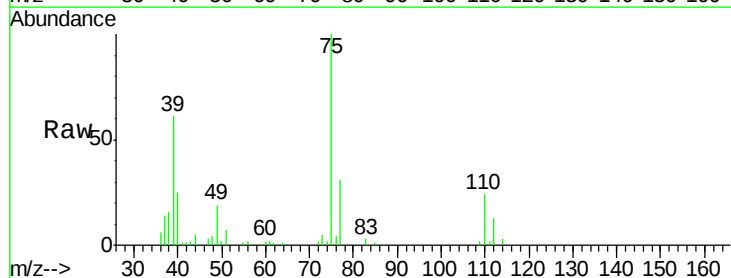
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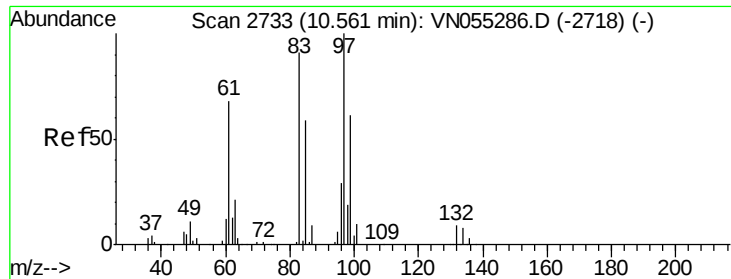
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#54
cis-1,3-Dichloropropene
Concen: 4.689 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion: 75 Resp: 33684
Ion Ratio Lower Upper
75 100
77 31.2 24.2 36.2
39 60.6 44.2 66.2





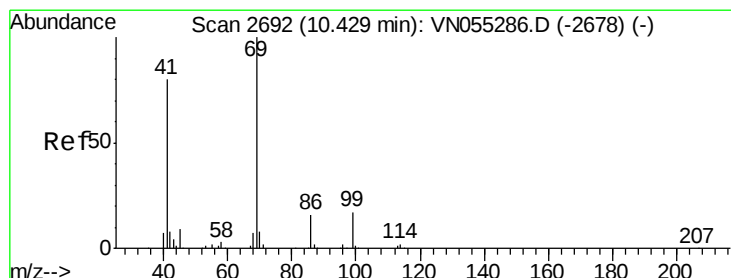
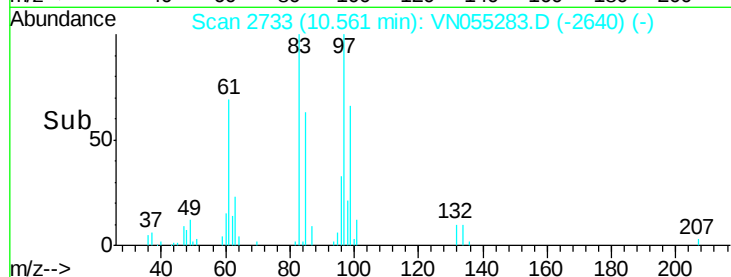
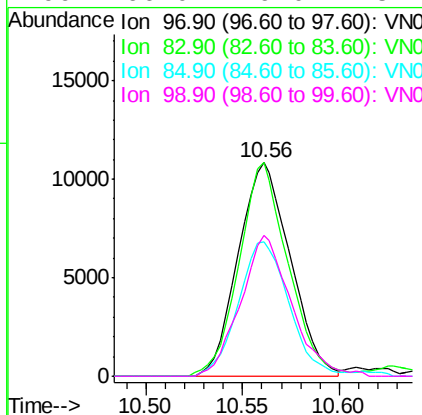
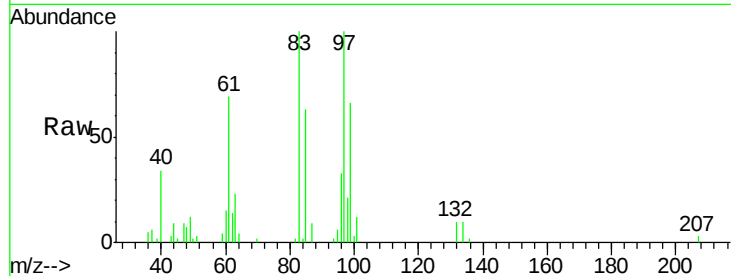
#55
 1,1,2-Trichloroethane
 Concen: 4.812 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	20269
Ion	Ratio	Lower	Upper
97	100		
83	99.8	72.8	109.2
85	63.2	47.0	70.6
99	66.0	49.0	73.4

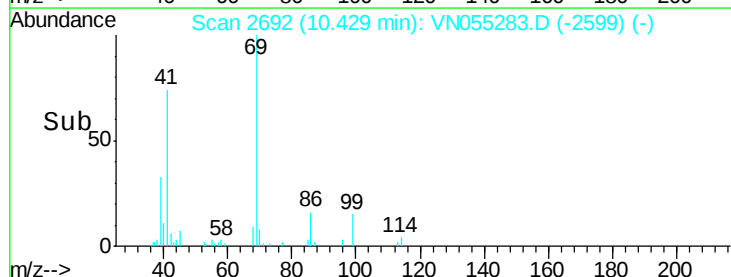
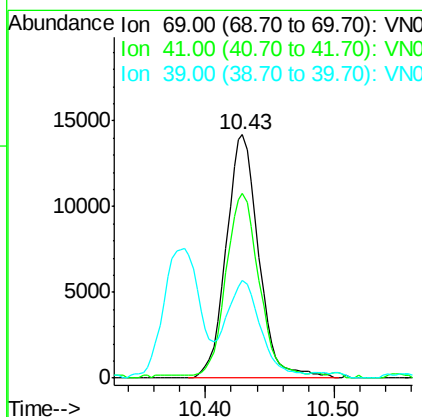
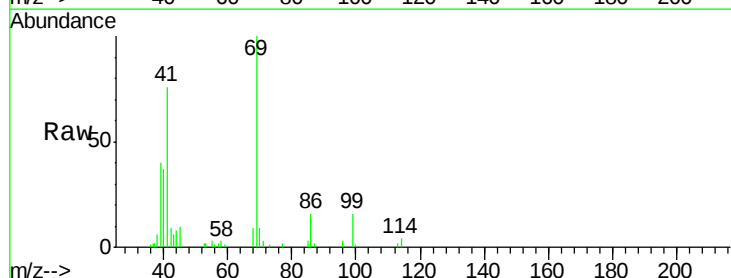
Manual Integrations
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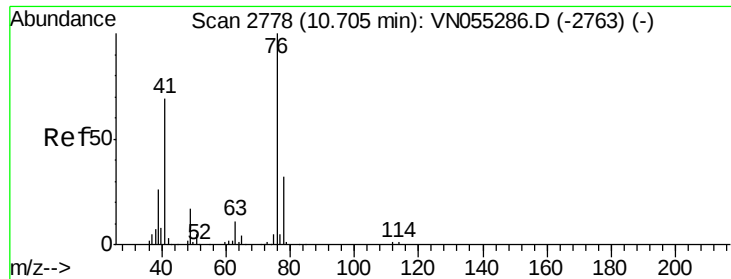
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#56
 Ethyl methacrylate
 Concen: 4.744 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion:	69	Resp:	24816
Ion	Ratio	Lower	Upper
69	100		
41	73.9	62.7	94.1
39	40.0	32.0	48.0





#57

1,3-Dichloropropane

Concen: 4.929 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 36072

Ion Ratio Lower Upper

76 100

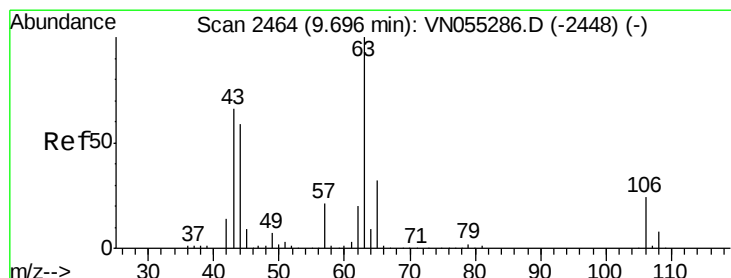
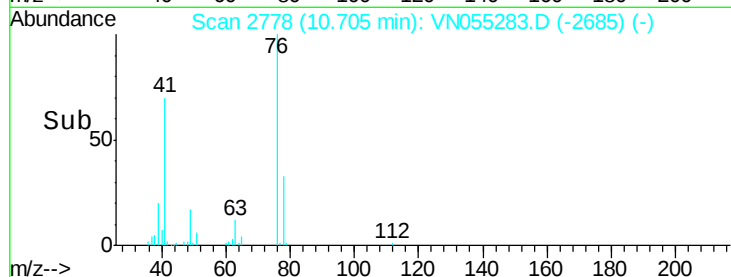
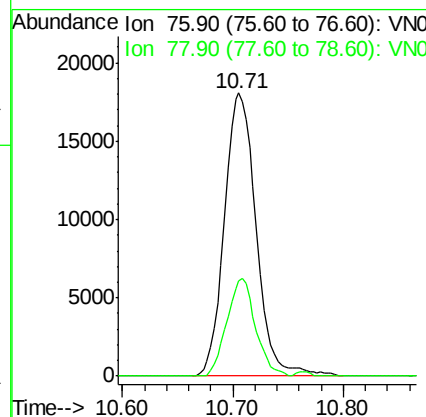
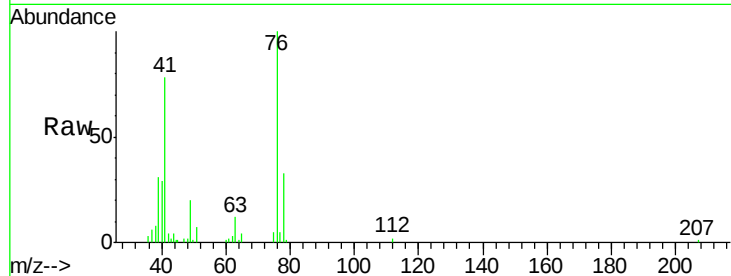
78 31.0 25.6 38.4

Manual Integrations

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MMDadoda

4/30/2019 11:58:49 AM



#58

2-Chloroethyl Vinyl ether

Concen: 19.115 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN055283.D

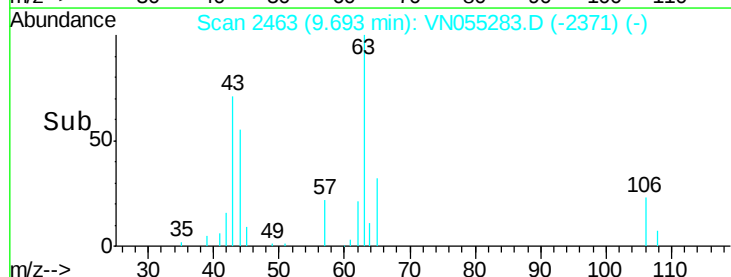
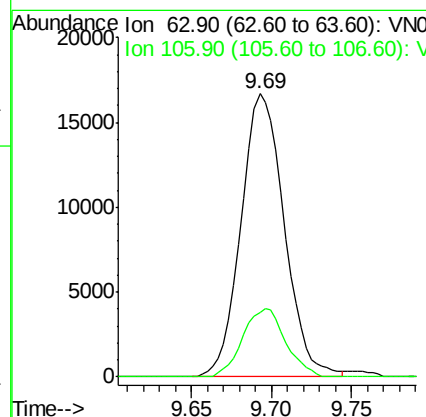
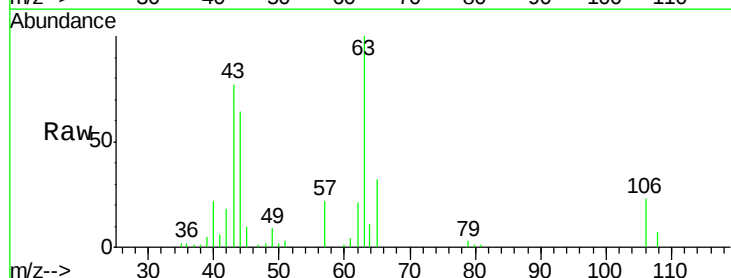
Acq: 29 Apr 2019 10:16

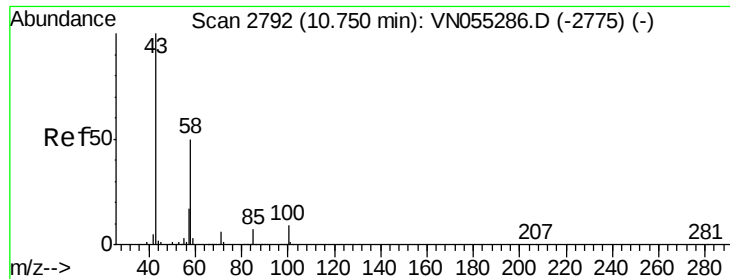
Tgt Ion: 63 Resp: 30860

Ion Ratio Lower Upper

63 100

106 23.8 19.0 28.4





#59

2-Hexanone

Concen: 23.782 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 70383

Ion Ratio Lower Upper

43 100

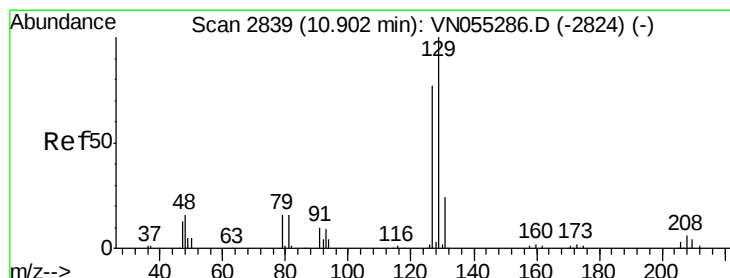
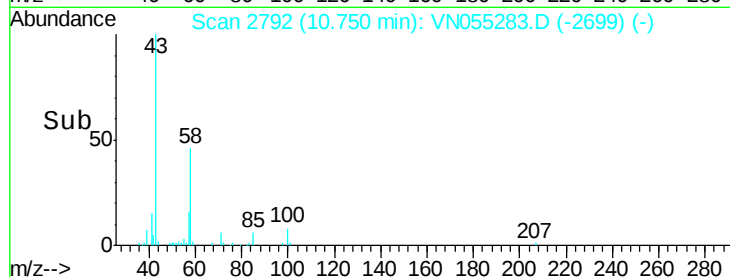
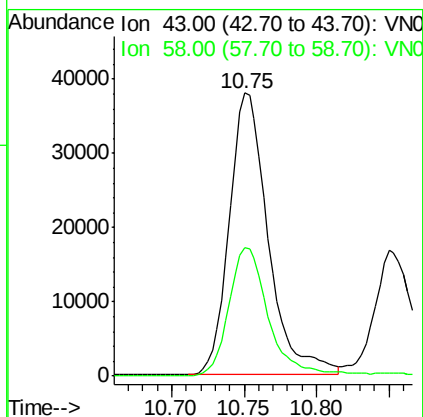
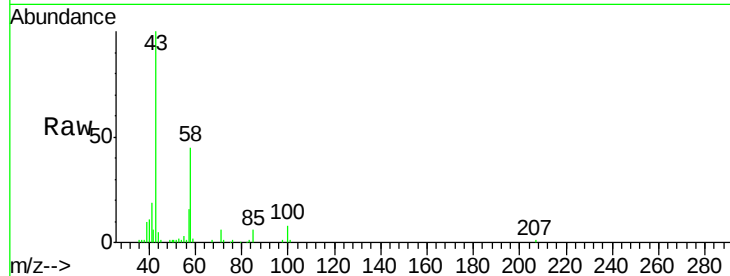
58 46.9 24.9 74.6

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#60

Dibromochloromethane

Concen: 4.600 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055283.D

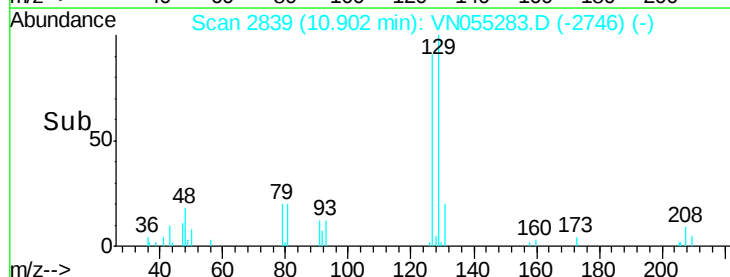
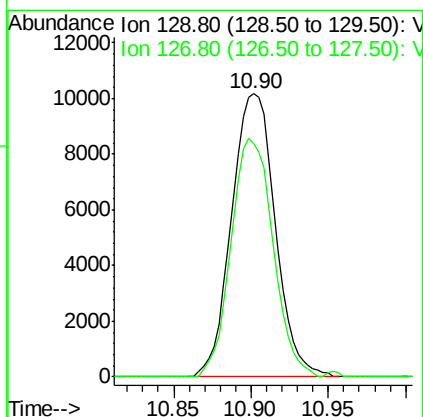
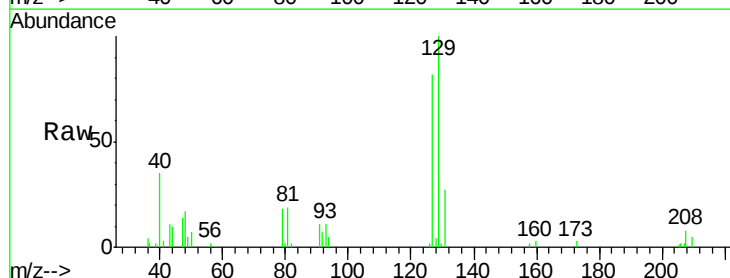
Acq: 29 Apr 2019 10:16

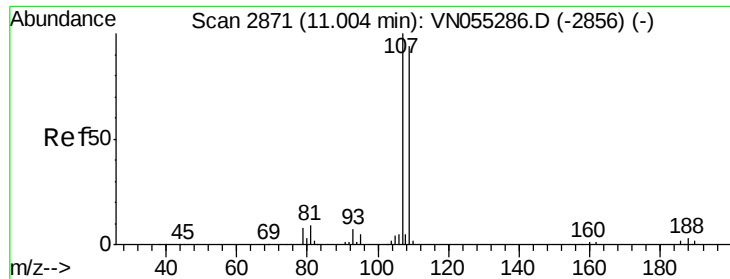
Tgt Ion: 129 Resp: 19984

Ion Ratio Lower Upper

129 100

127 80.8 38.1 114.5





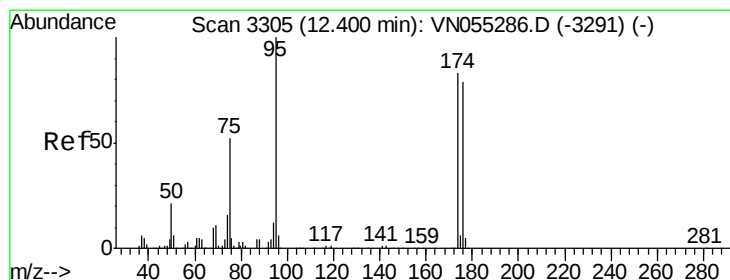
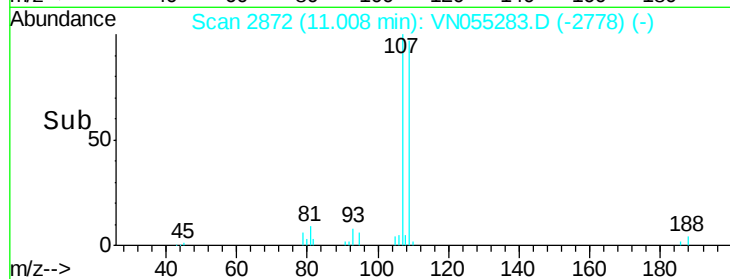
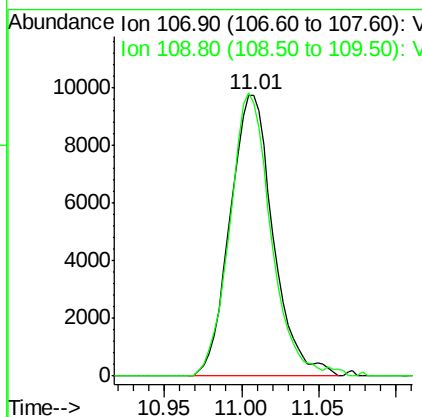
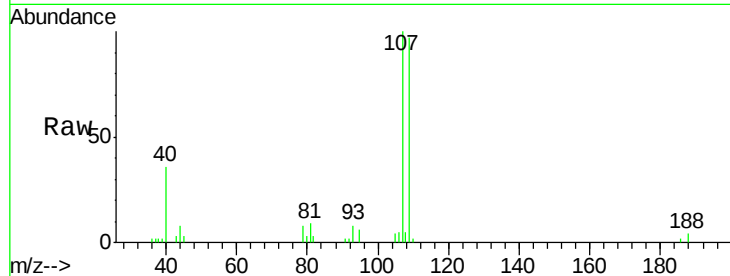
#61
 1,2-Dibromoethane
 Concen: 4.783 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.3	75.0	112.6

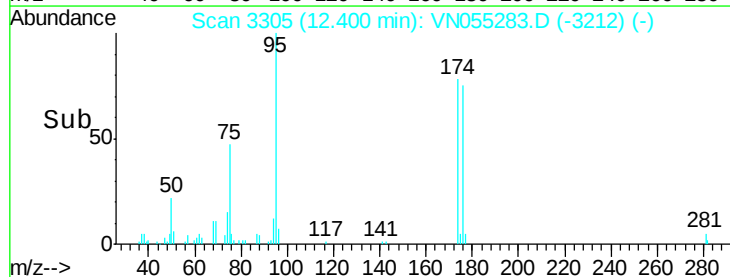
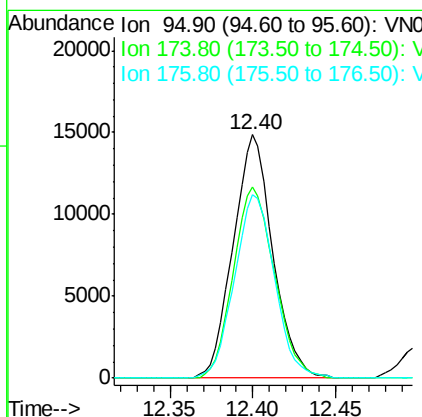
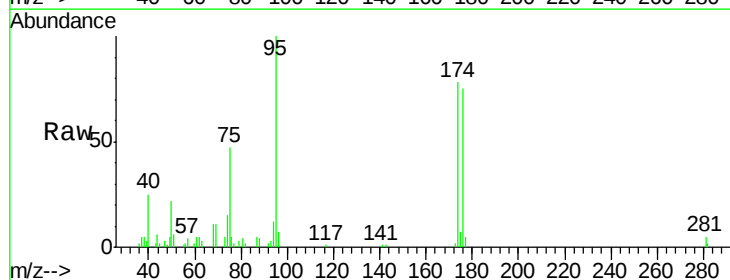
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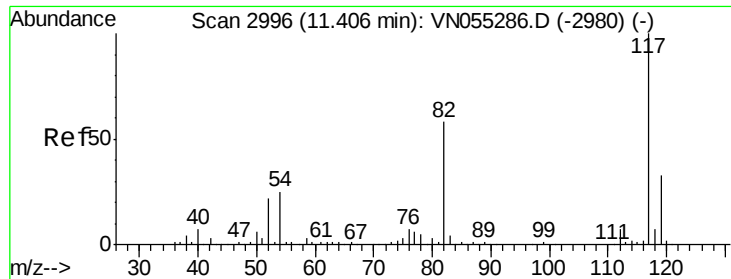
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#62
 4-Bromofluorobenzene
 Concen: 4.596 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
95	100		
174	81.4	0.0	166.6
176	76.4	0.0	157.8





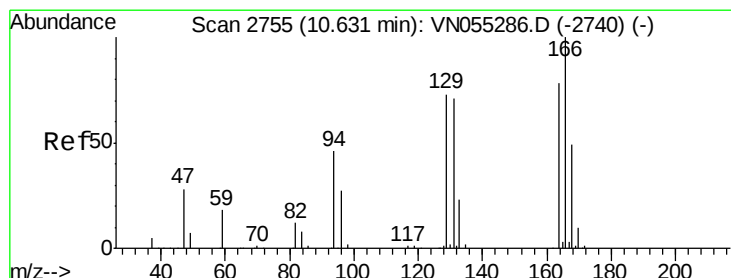
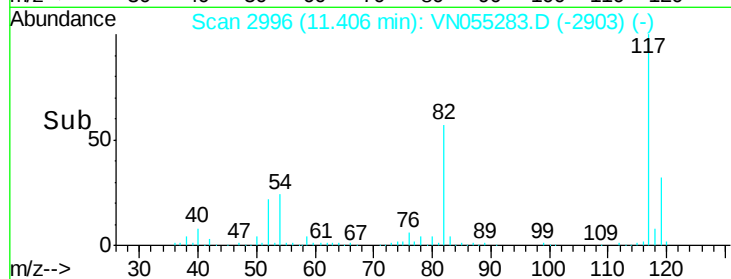
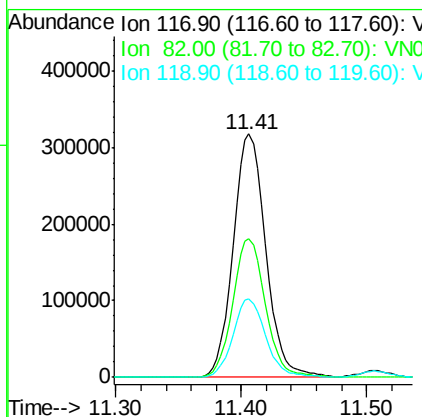
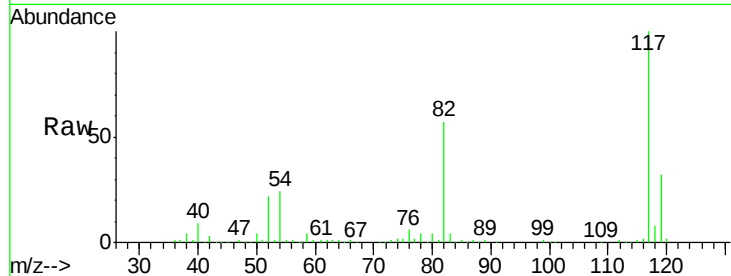
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	46.2	69.4
119	32.0	26.6	40.0

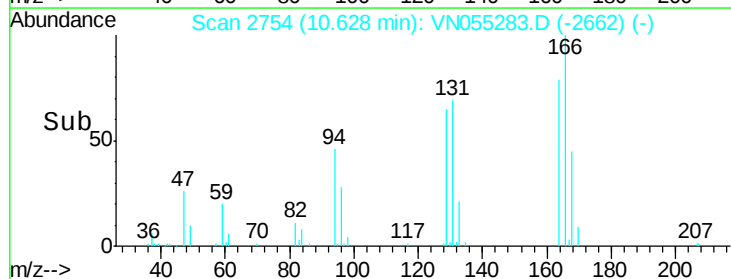
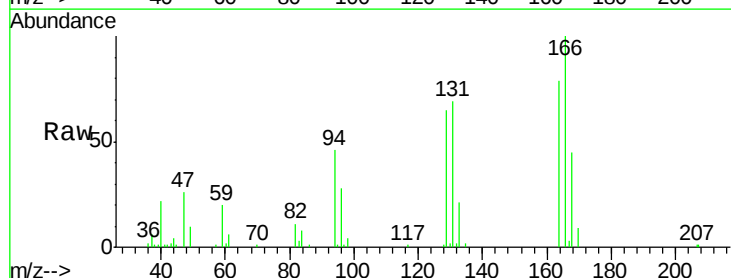
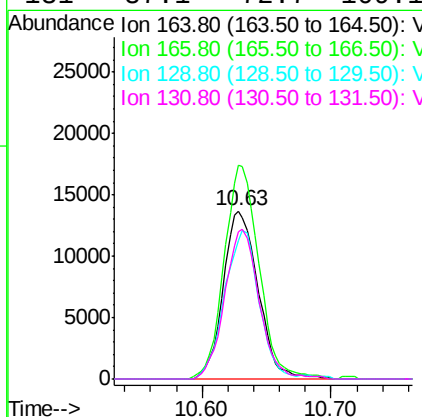
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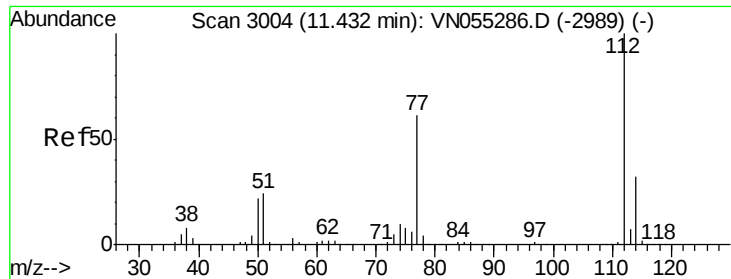
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#64
Tetrachloroethene
Concen: 5.527 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.0	102.3	153.5
129	82.3	75.0	112.6
131	87.1	72.7	109.1





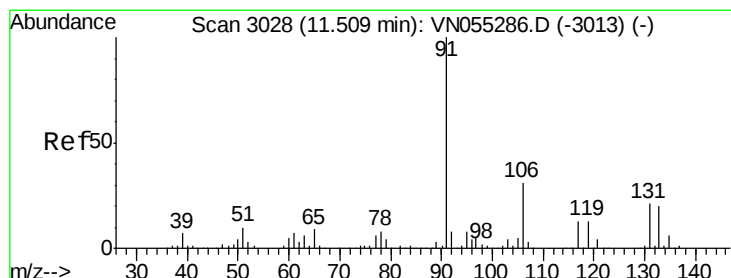
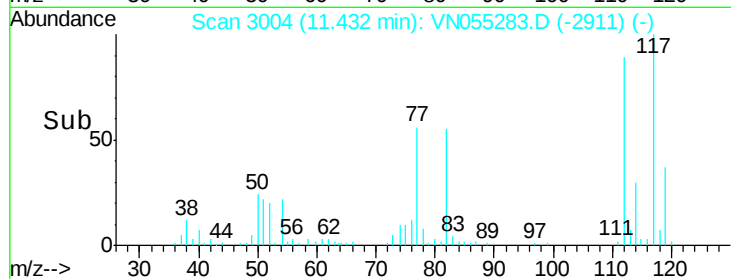
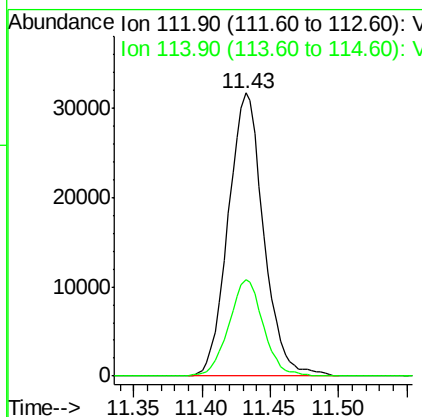
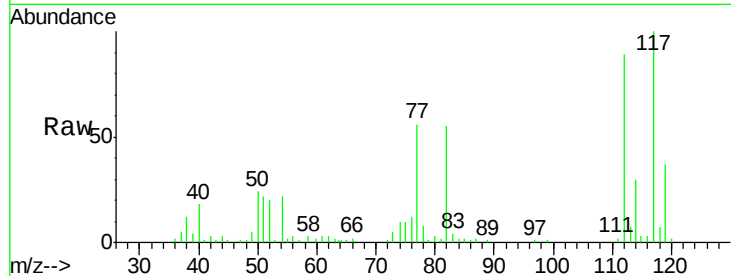
#65
Chlorobenzene
Concen: 4.910 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 57028
Ion Ratio Lower Upper
112 100
114 34.1 25.3 37.9

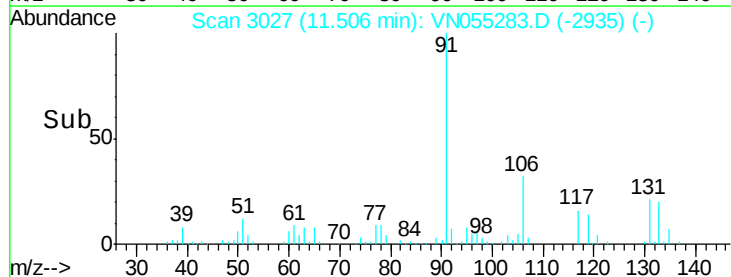
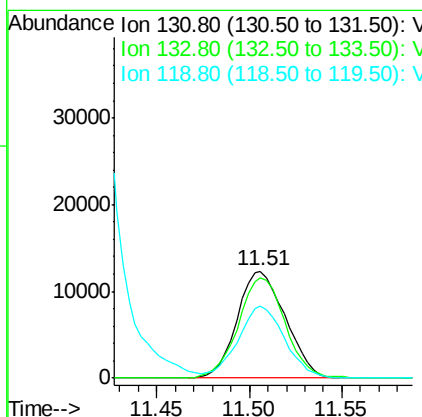
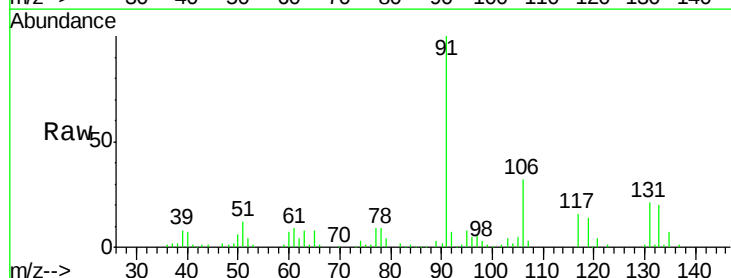
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#66
1,1,1,2-Tetrachloroethane
Concen: 5.151 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion:131 Resp: 22276
Ion Ratio Lower Upper
131 100
133 91.8 47.5 142.6
119 65.4 32.7 98.1





#67

Ethyl Benzene

Concen: 5.089 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 105366

Ion Ratio Lower Upper

91 100

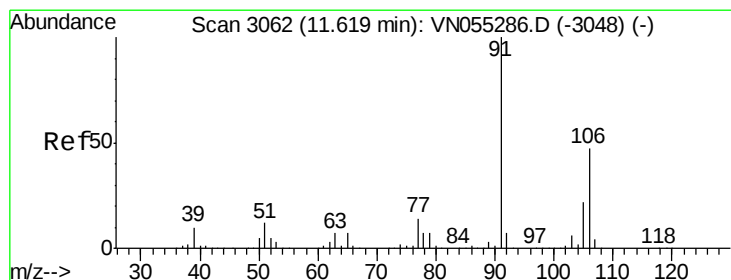
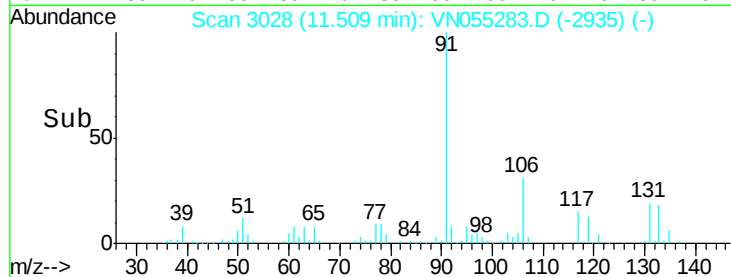
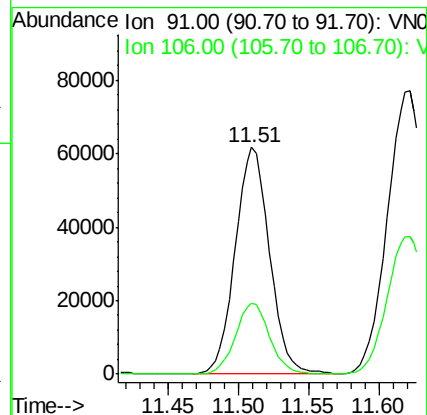
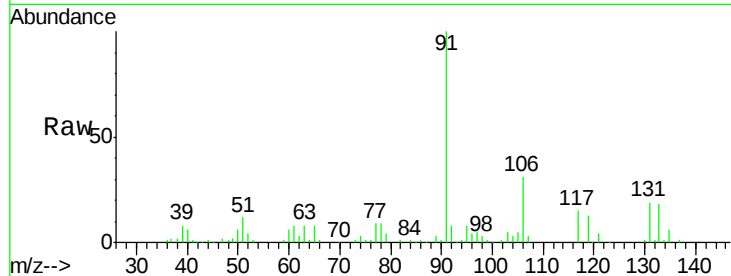
106 31.3 24.6 36.8

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#68

m/p-Xylenes

Concen: 10.074 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN055283.D

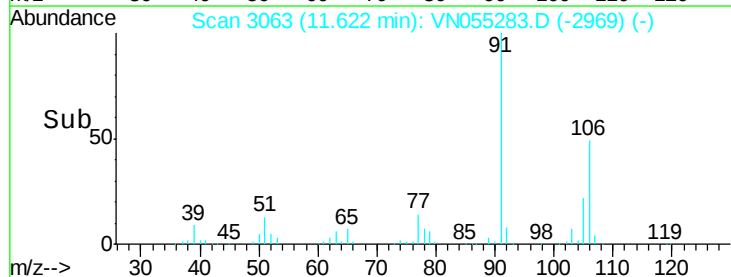
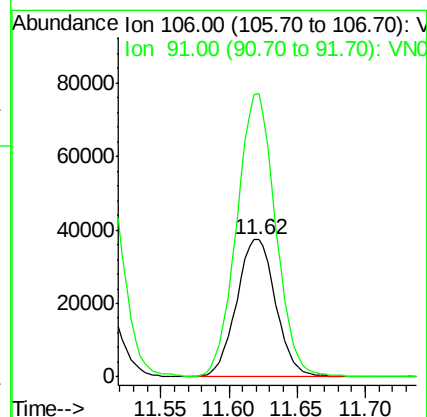
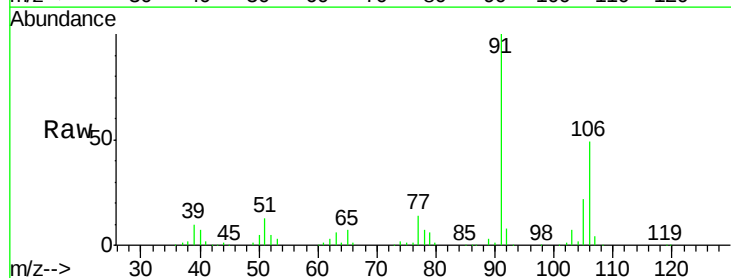
Acq: 29 Apr 2019 10:16

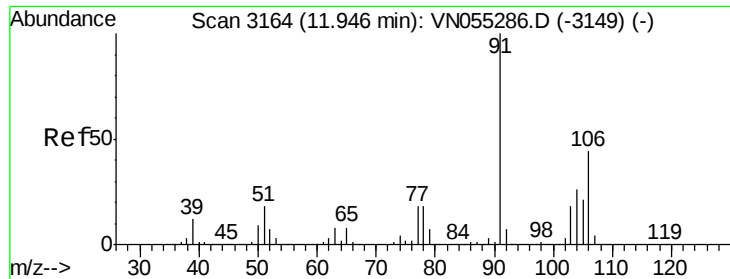
Tgt Ion: 106 Resp: 74563

Ion Ratio Lower Upper

106 100

91 204.7 169.5 254.3





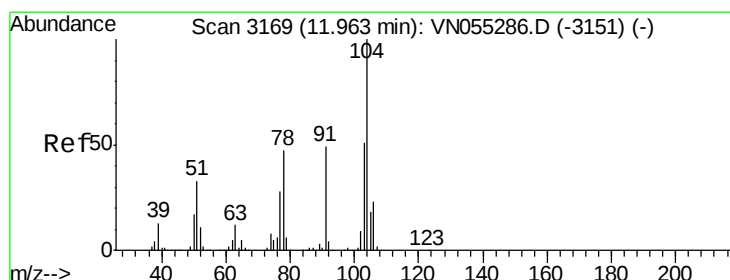
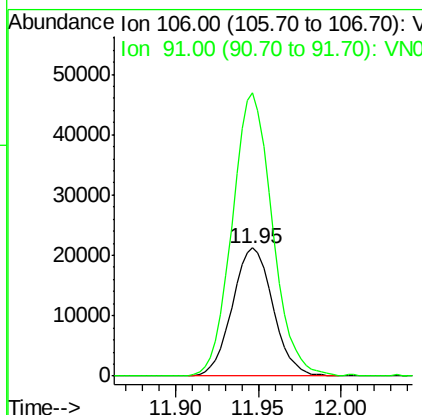
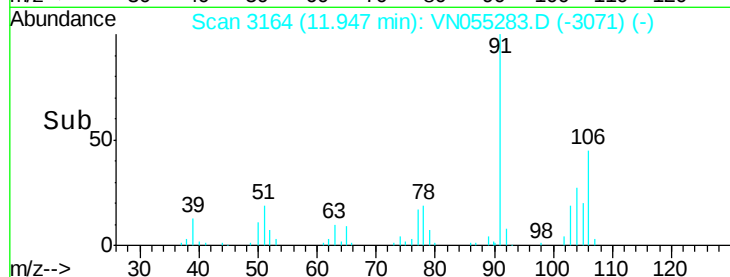
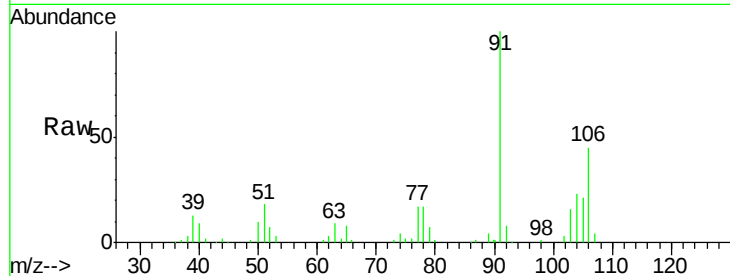
#69
o-Xylene
Concen: 4.923 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 36196
Ion Ratio Lower Upper
106 100
91 218.8 111.5 334.5

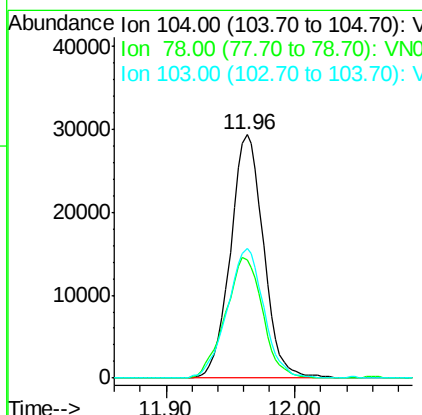
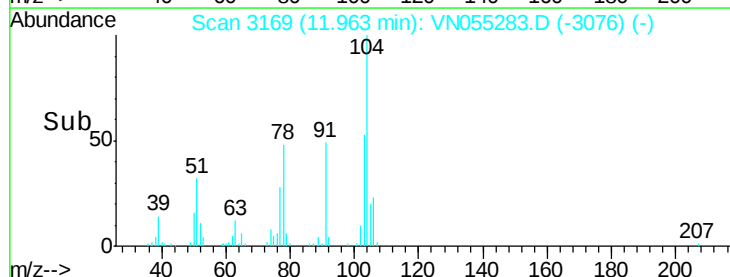
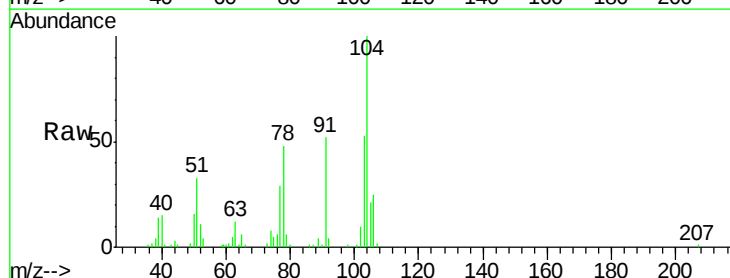
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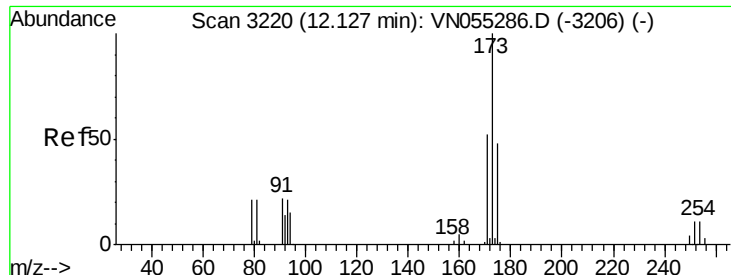
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#70
Styrene
Concen: 4.605 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion:104 Resp: 52369
Ion Ratio Lower Upper
104 100
78 55.4 42.2 63.2
103 58.6 44.6 67.0





#71

Bromoform

Concen: 4.596 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:173 Resp: 11752

Ion Ratio Lower Upper

173 100

175 47.1 23.6 71.0

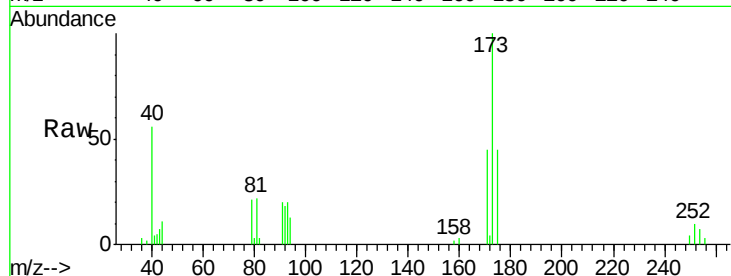
254 0.0 0.0 0.0

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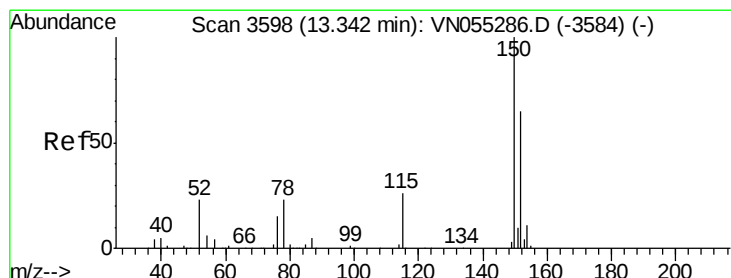
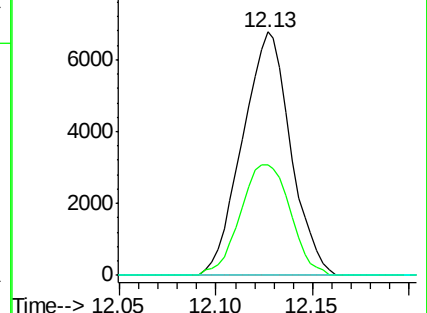
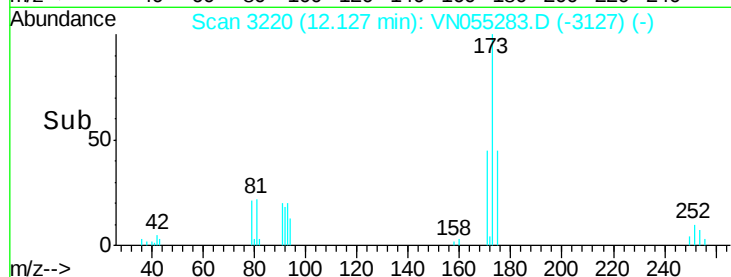
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Abundance Ion 172.70 (172.40 to 173.40): V

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# 3598

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

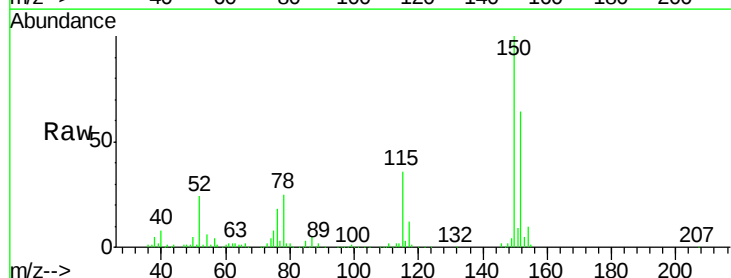
Tgt Ion:152 Resp: 170226

Ion Ratio Lower Upper

152 100

115 57.6 29.0 87.0

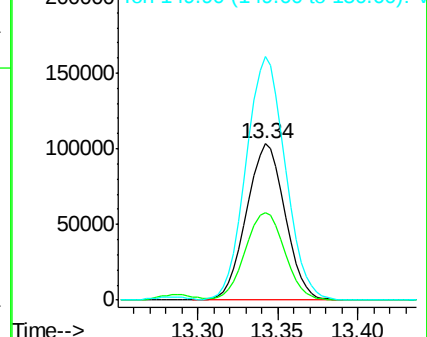
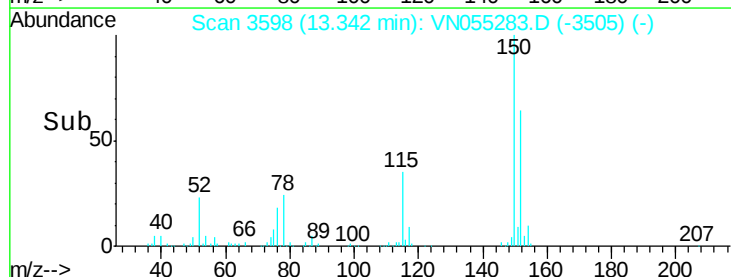
150 157.5 0.0 345.6

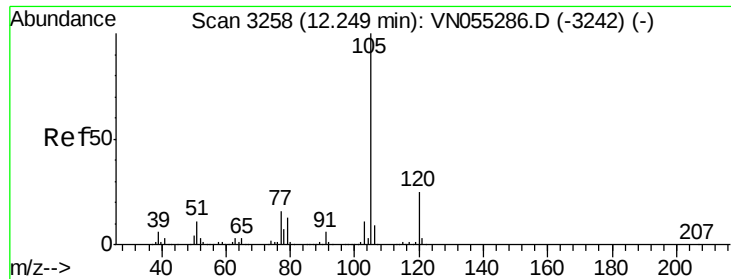


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.922 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 97108

Ion Ratio Lower Upper

105 100

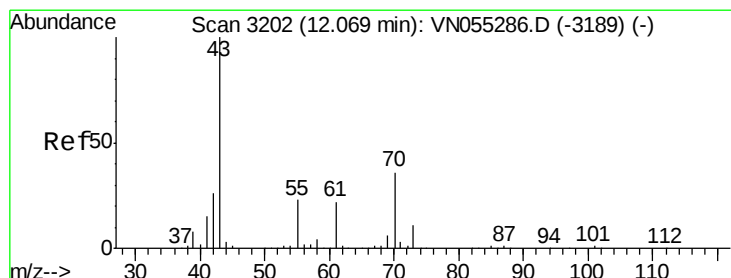
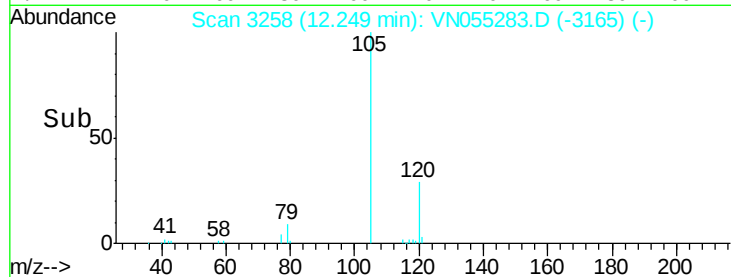
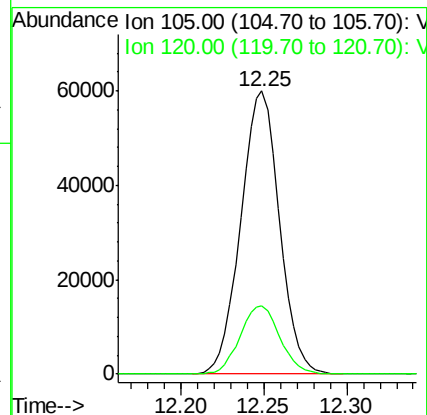
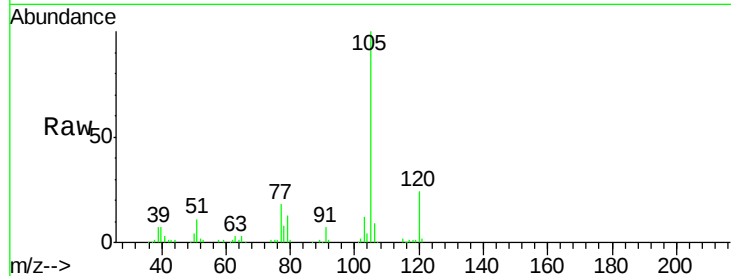
120 25.0 12.9 38.7

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#74

N-ethyl acetate

Concen: 4.965 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Tgt Ion: 43 Resp: 21769

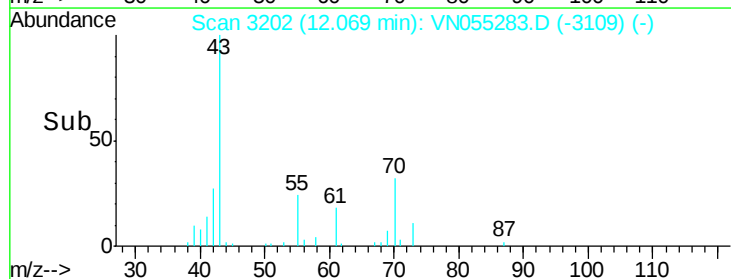
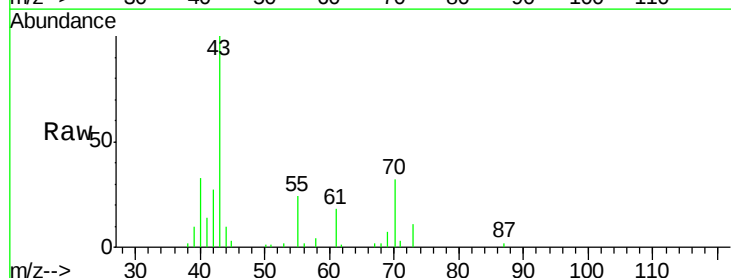
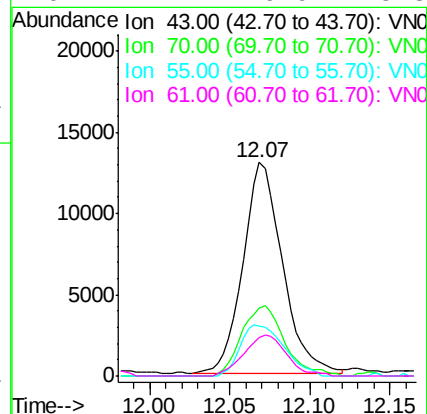
Ion Ratio Lower Upper

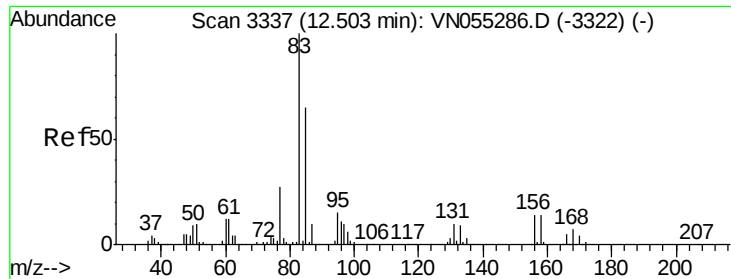
43 100

70 36.3 27.9 41.9

55 26.9 18.2 27.2

61 21.1 16.9 25.3





#75

1,1,2,2-Tetrachloroethane

Concen: 5.474 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

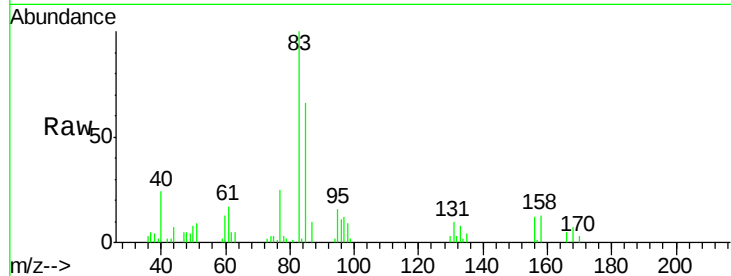
ClientSampleId :

VSTDIC005

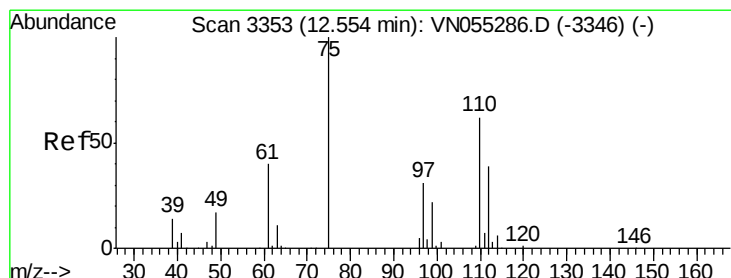
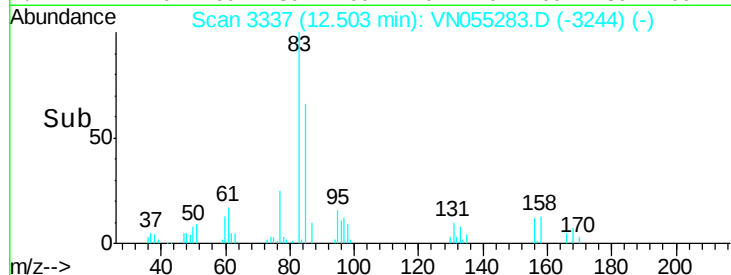
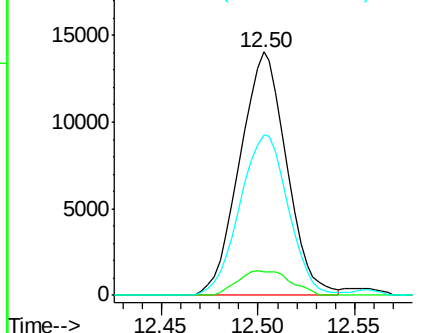
Tot Ion:	83	Resp:	23676
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.1	15.2
85	68.3	32.3	96.8

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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 6.079 ug/l m

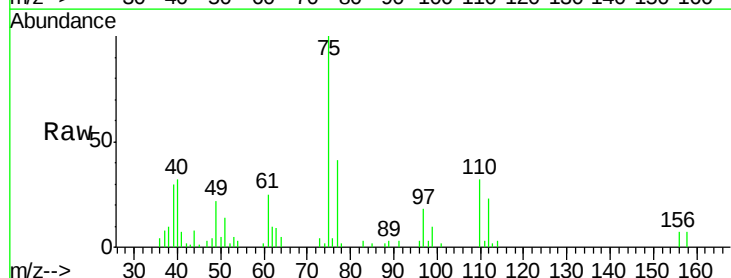
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

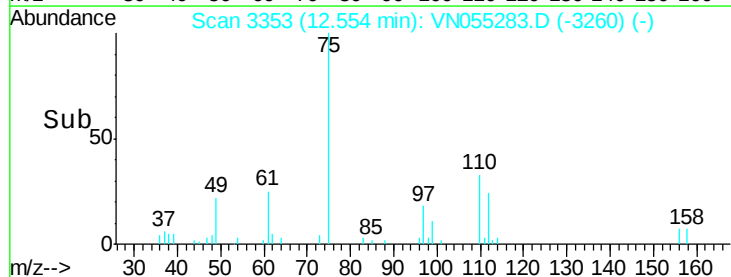
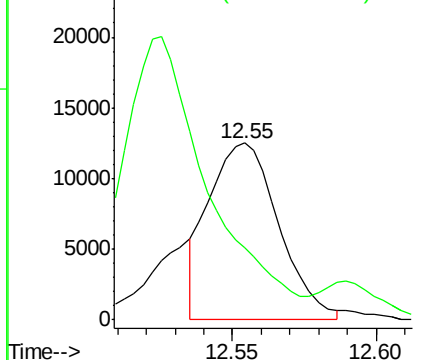
Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Tgt Ion:	75	Resp:	21243
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 5.957 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

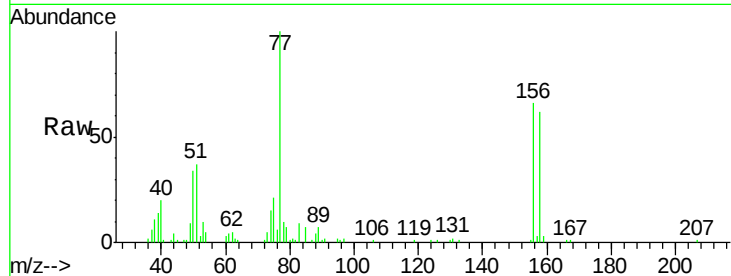
ClientSampled :

VSTDIC005

Tot Ion:	156	Resp:	22330
Ion	Ratio	Lower	Upper
156	100		
77	188.1	99.6	298.8
158	97.6	49.3	147.8

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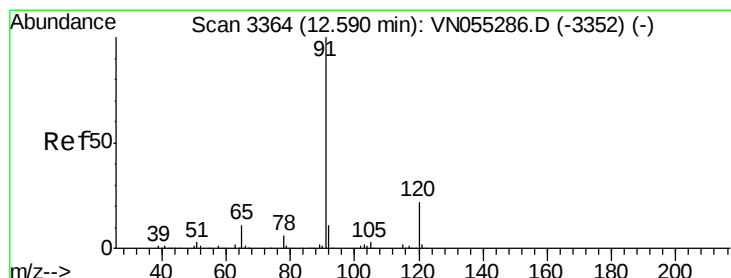
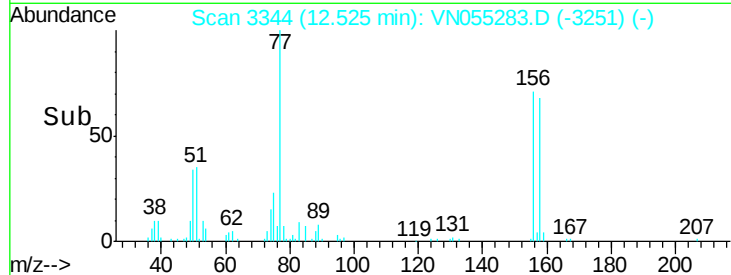
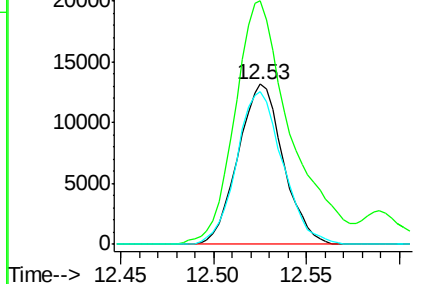
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.754 ug/l

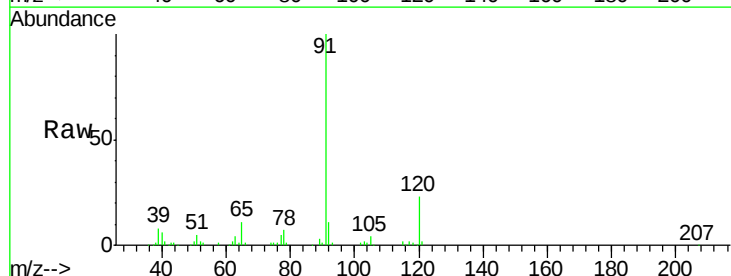
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055283.D

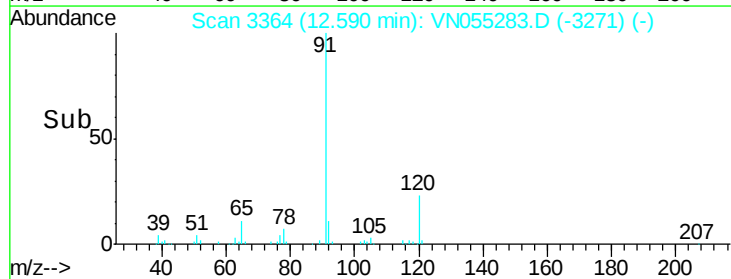
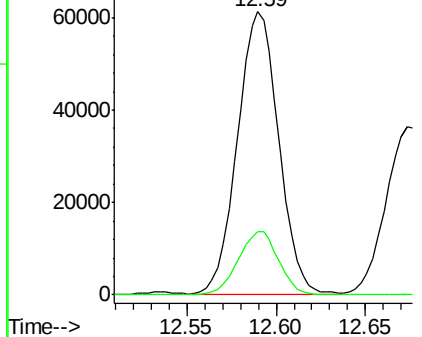
Acq: 29 Apr 2019 10:16

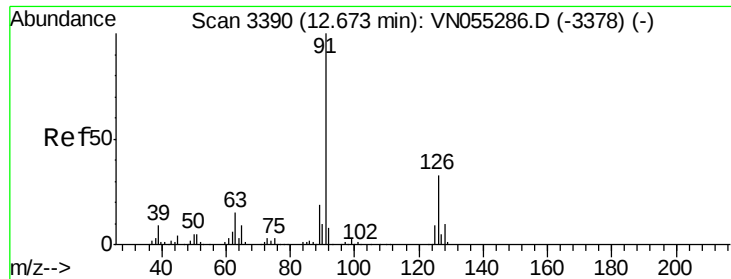
Tgt Ion:	91	Resp:	98398
Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.790 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 62523

Ion Ratio Lower Upper

91 100

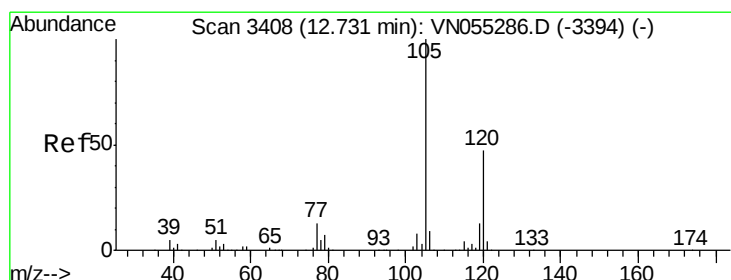
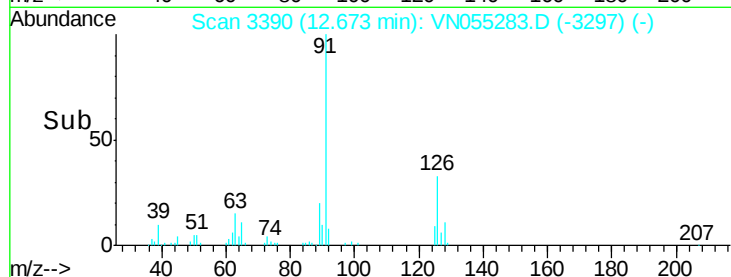
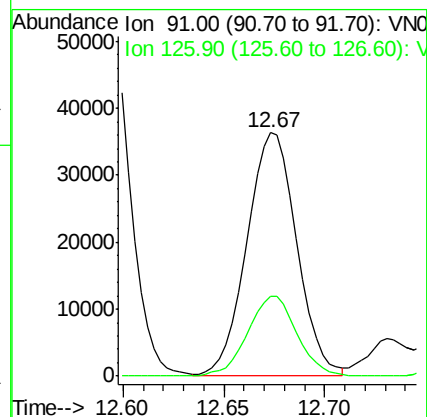
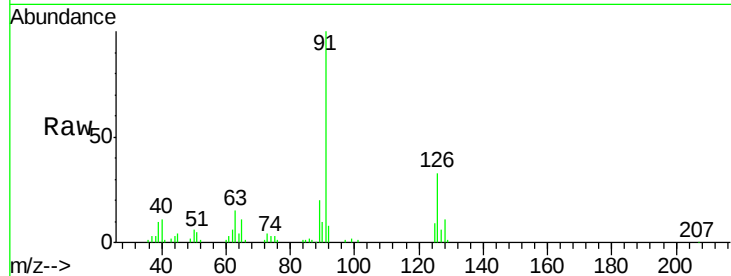
126 32.7 16.6 49.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 5.848 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055283.D

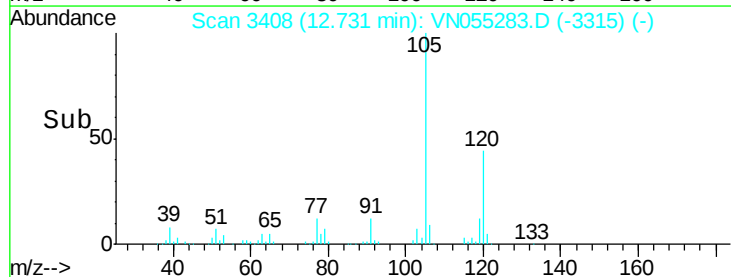
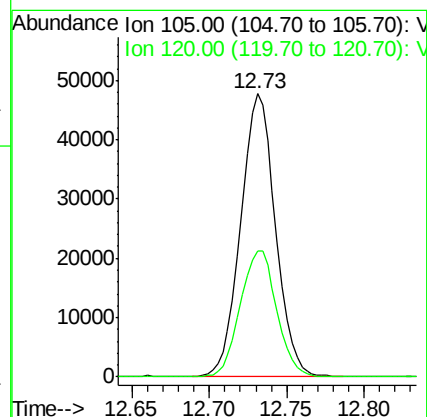
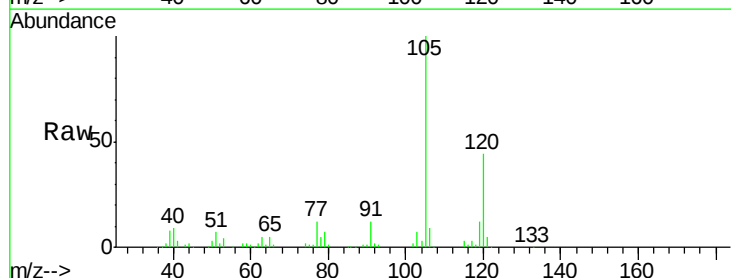
Acq: 29 Apr 2019 10:16

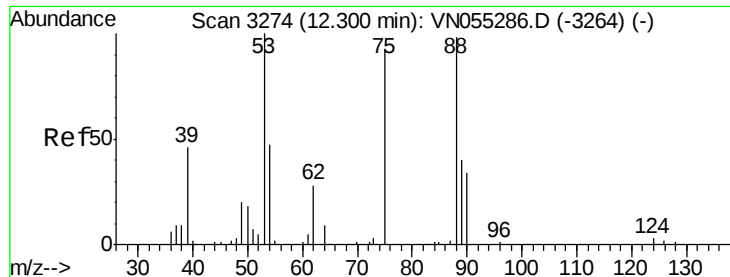
Tgt Ion: 105 Resp: 74542

Ion Ratio Lower Upper

105 100

120 46.6 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 5.489 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 5010

Ion Ratio Lower Upper

75 100

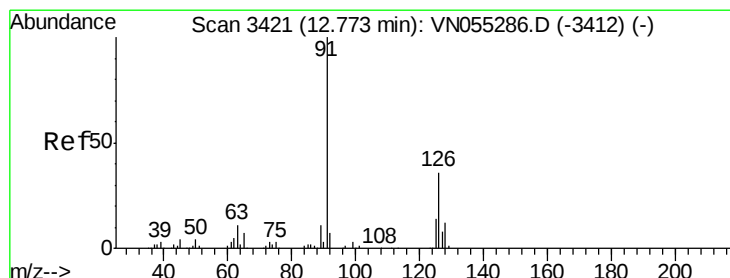
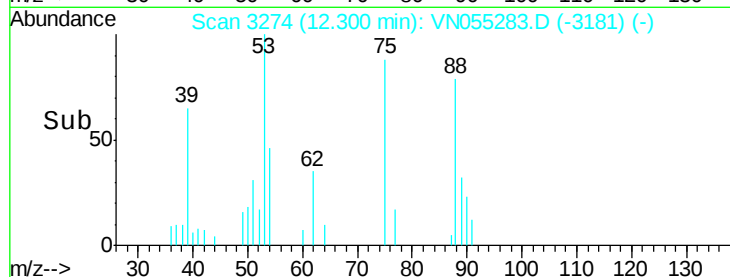
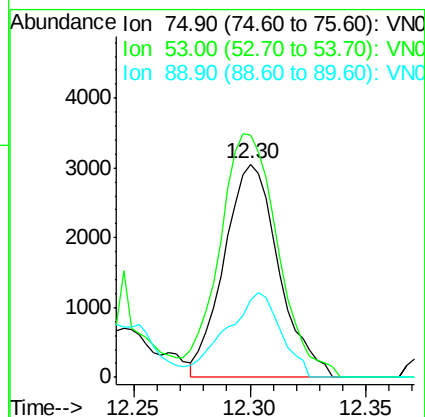
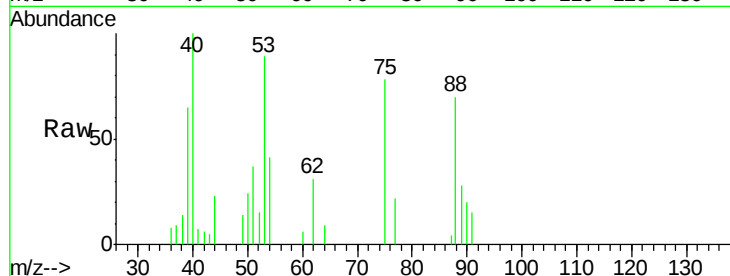
53 121.7 86.3 129.5

89 39.9 34.6 51.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 5.557 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. -0.00 min

Lab File: VN055283.D

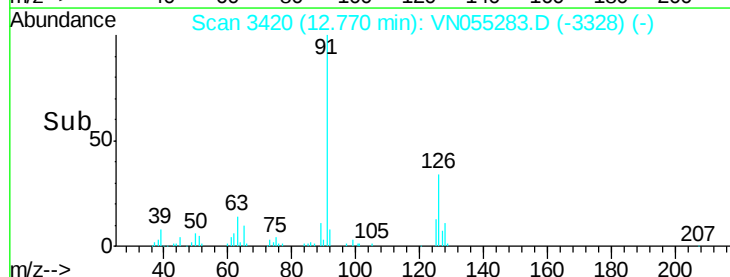
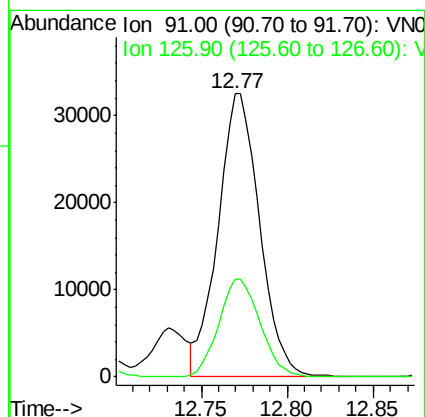
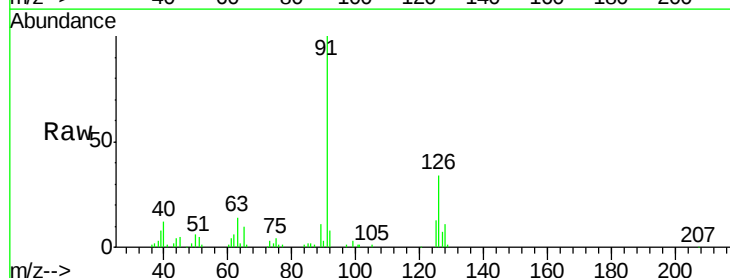
Acq: 29 Apr 2019 10:16

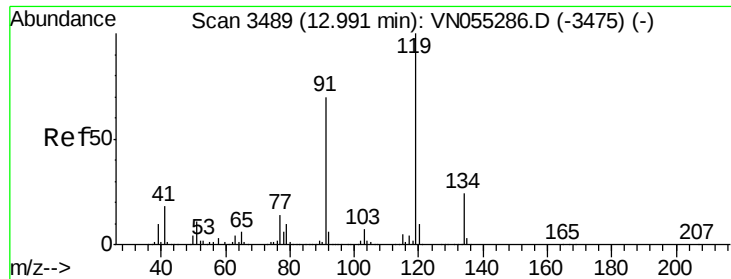
Tgt Ion: 91 Resp: 54974

Ion Ratio Lower Upper

91 100

126 34.2 16.6 49.7





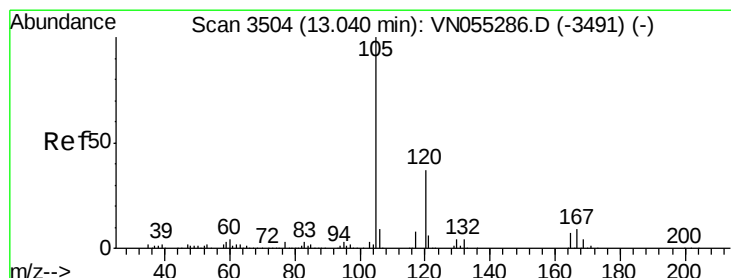
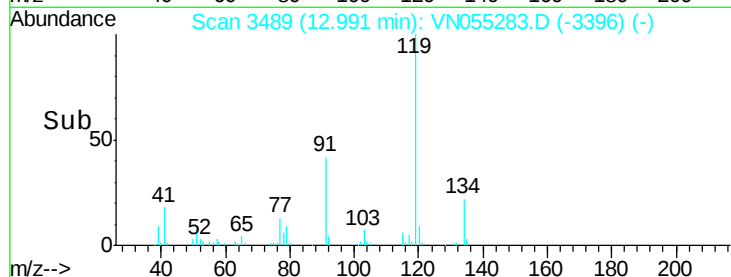
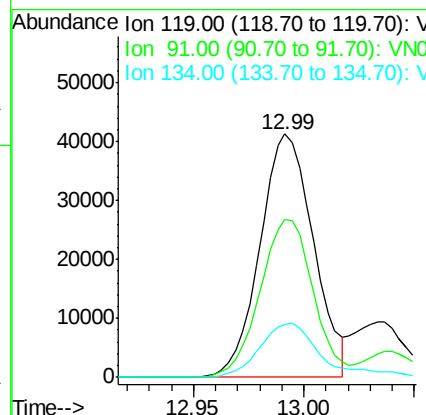
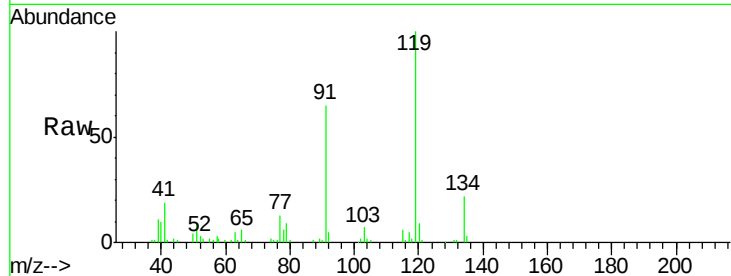
#83
tert-Butylbenzene
Concen: 6.064 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.5	34.3	102.9
134	25.4	13.1	39.3

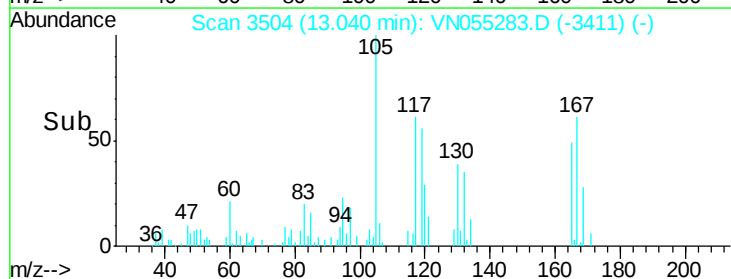
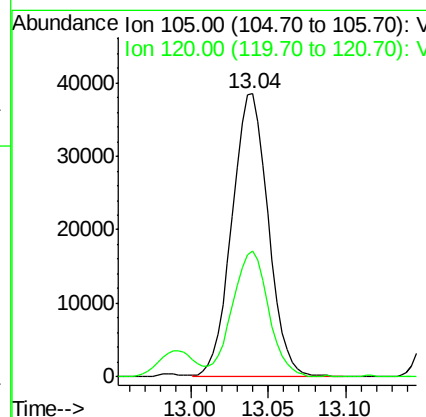
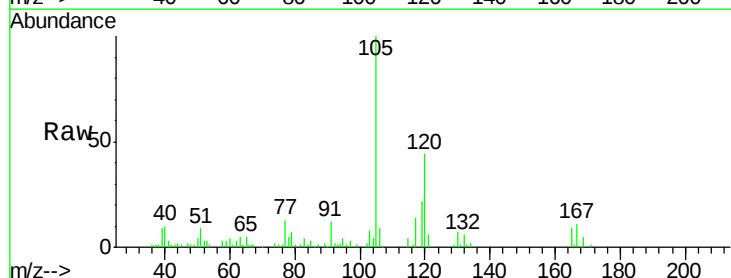
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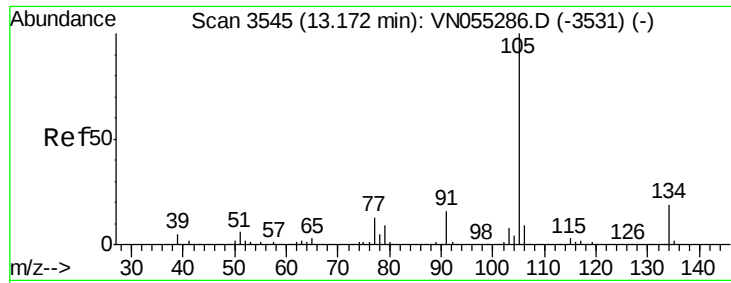
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#84
1,2,4-Trimethylbenzene
Concen: 5.218 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.1	66.5





#85

sec-Butylbenzene

Concen: 5.648 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 81533

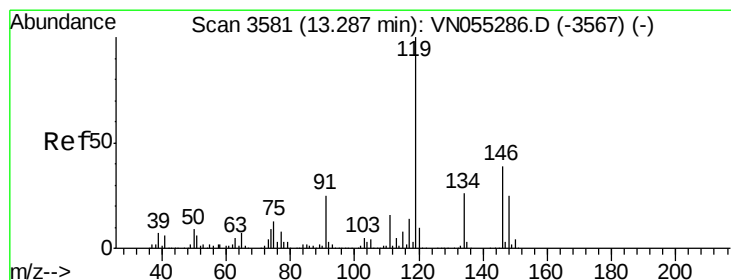
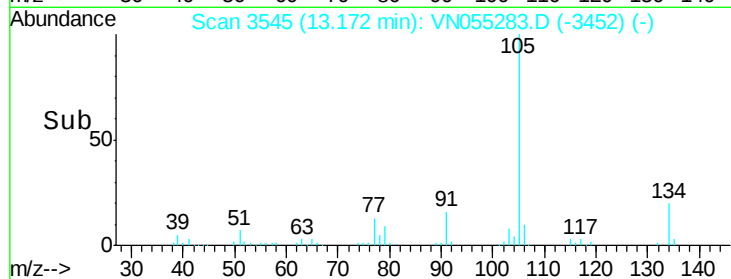
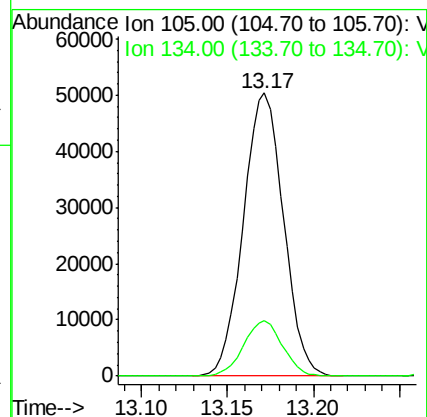
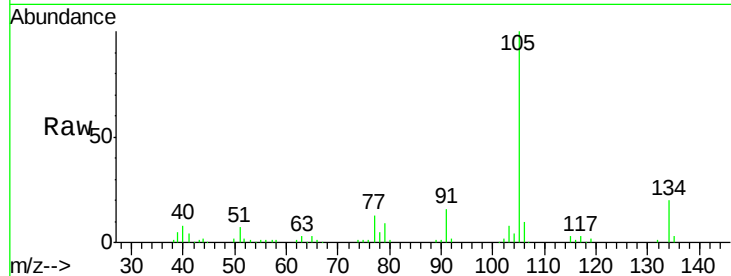
Ion Ratio Lower Upper

105 100

134 18.9 9.6 28.8

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#86

p-Isopropyltoluene

Concen: 5.280 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

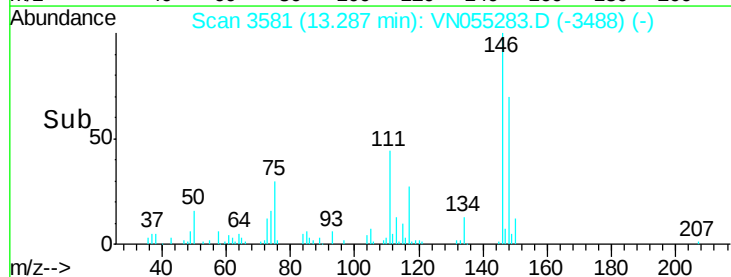
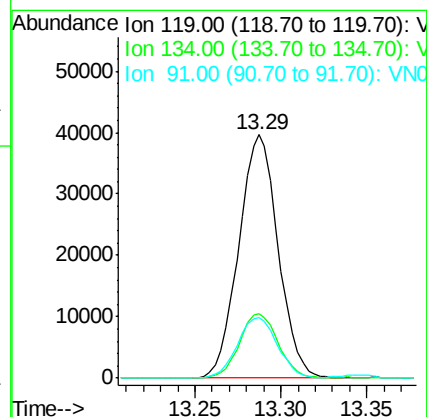
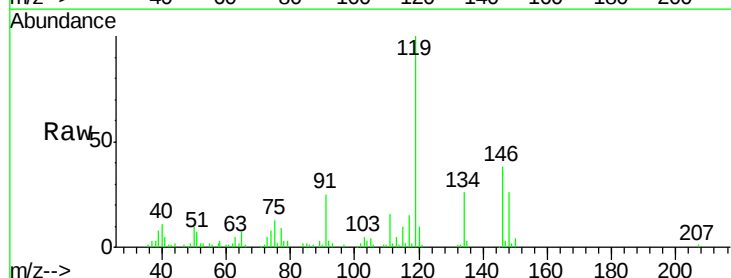
Tgt Ion:119 Resp: 62703

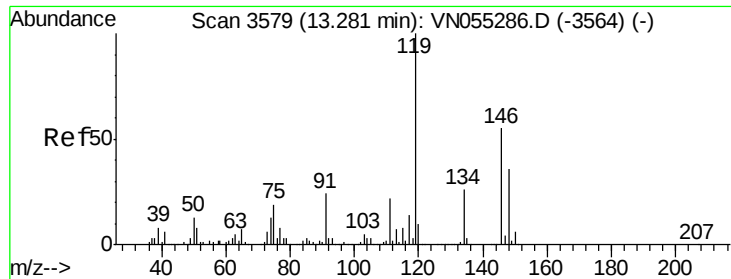
Ion Ratio Lower Upper

119 100

134 26.1 13.0 38.9

91 25.4 12.2 36.6





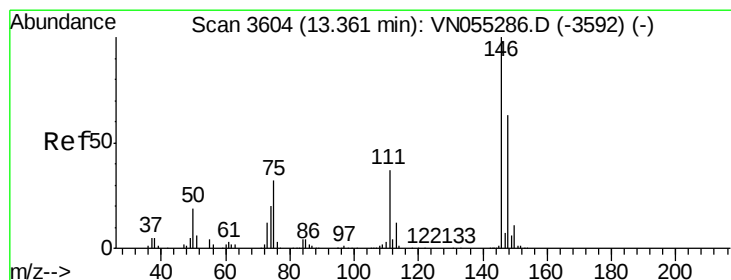
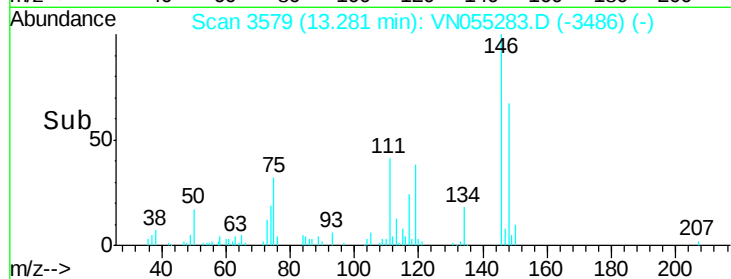
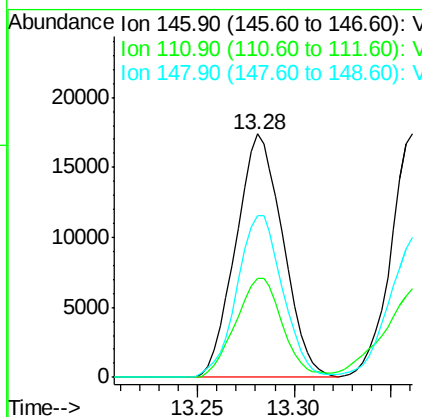
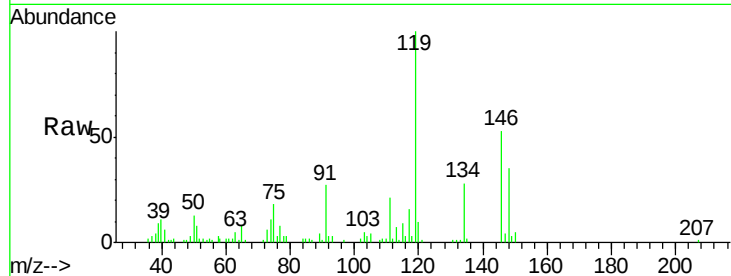
#87
 1,3-Dichlorobenzene
 Concen: 5.148 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.3	60.8
148	64.7	32.5	97.5

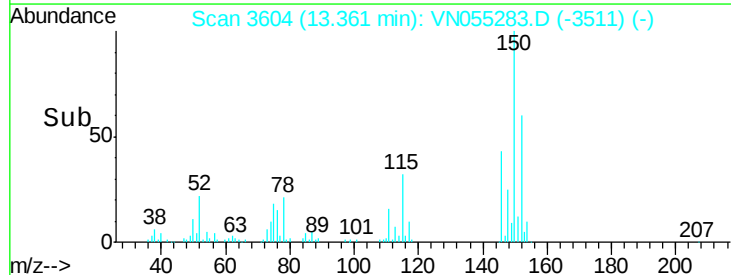
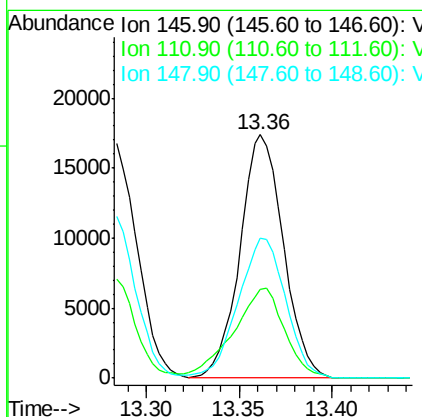
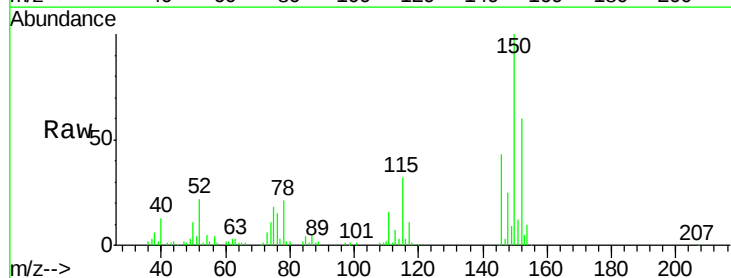
Manual Integrations
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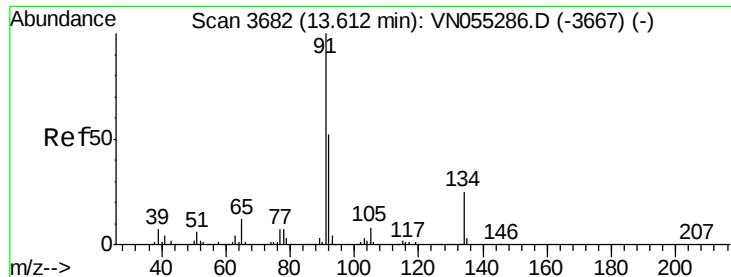
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#88
 1,4-Dichlorobenzene
 Concen: 5.090 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	19.5	58.5
148	63.1	32.5	97.4





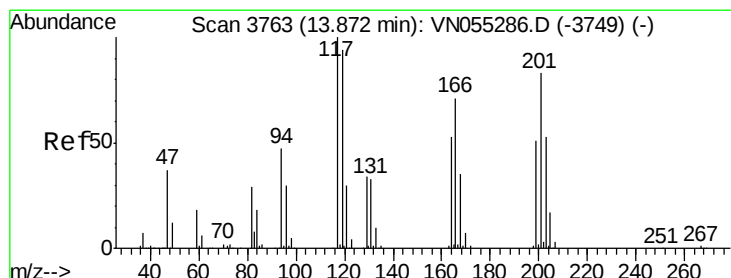
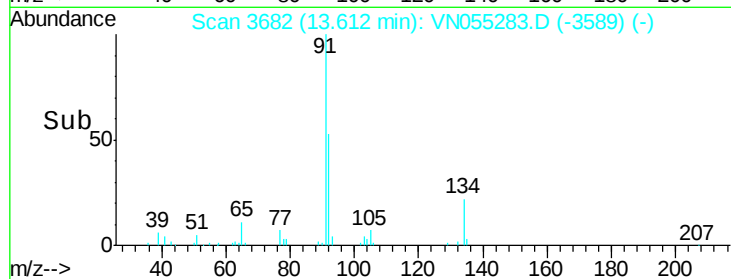
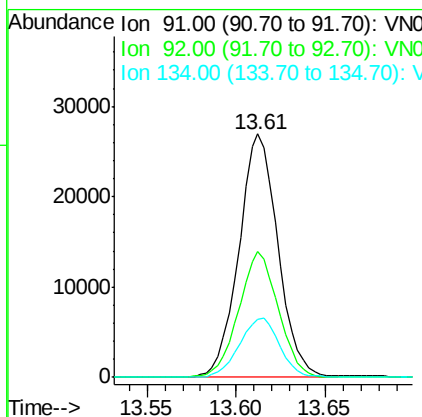
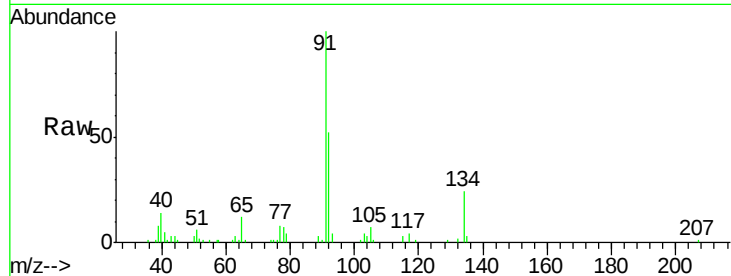
#89
n-Butylbenzene
Concen: 4.689 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.1	78.3
134	25.0	12.4	37.4

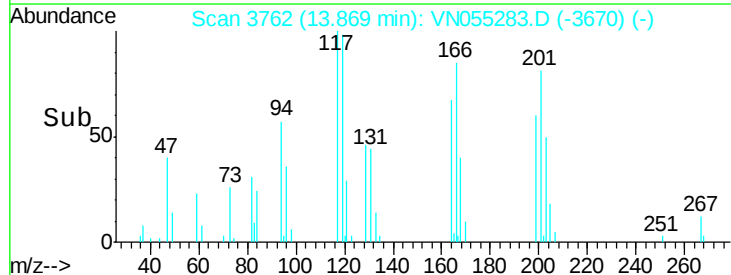
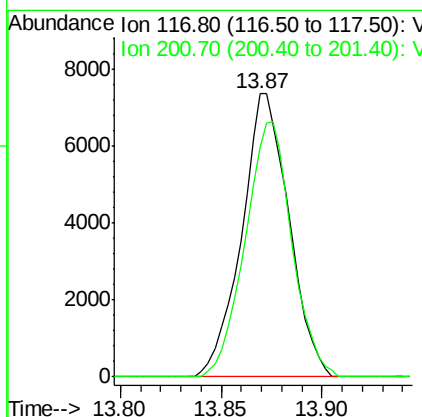
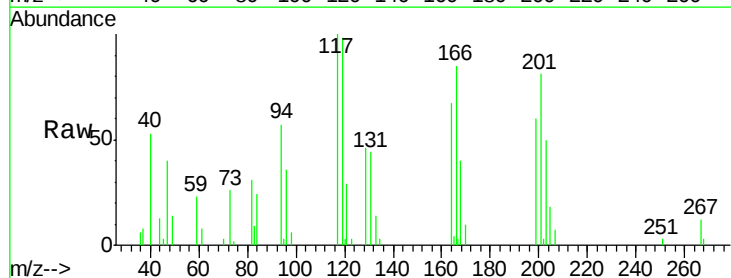
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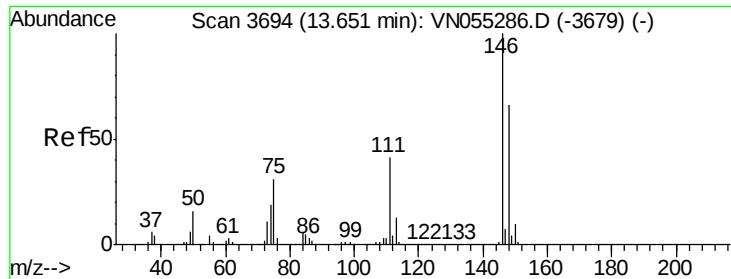
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#90
Hexachloroethane
Concen: 5.705 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN055283.D
Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.7	41.9	125.8





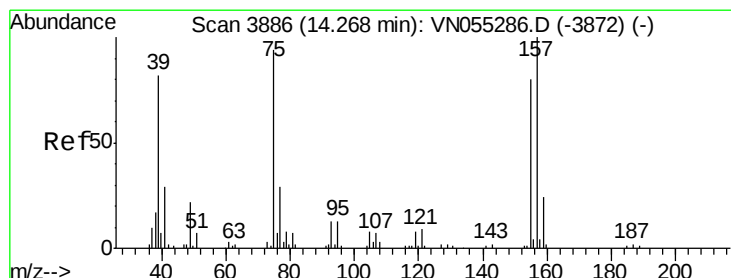
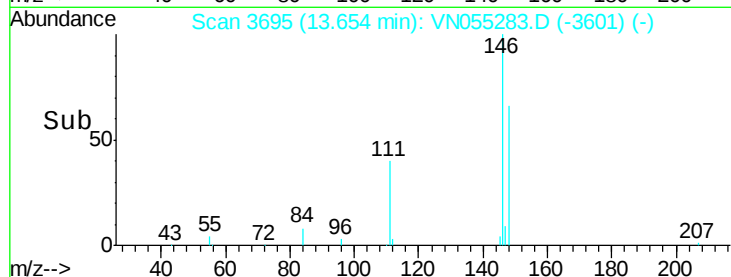
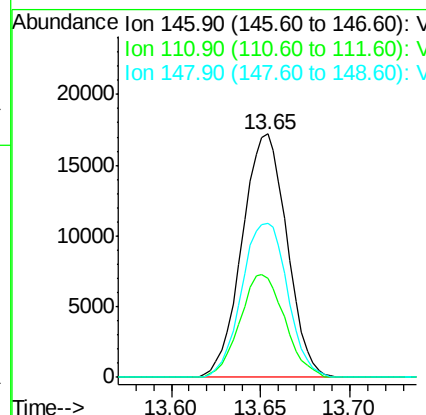
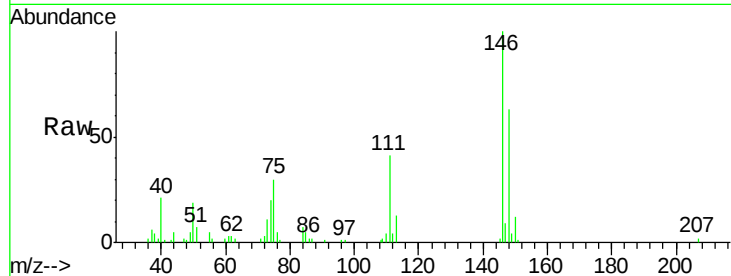
#91
 1,2-Dichlorobenzene
 Concen: 5.153 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	20.3	61.0
148	64.6	32.4	97.2

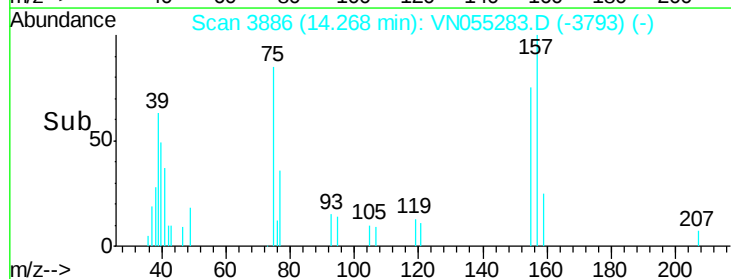
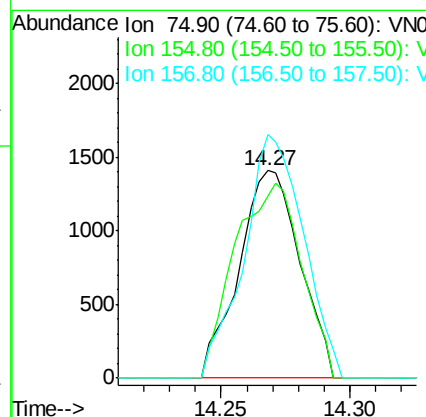
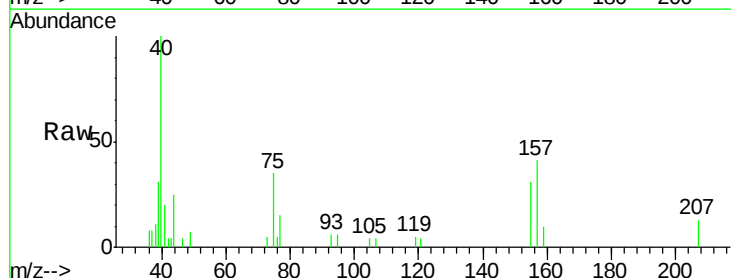
Manual Integrations
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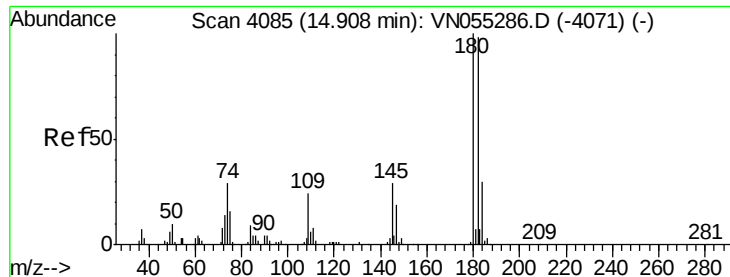
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.506 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055283.D
 Acq: 29 Apr 2019 10:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.2	41.5	124.6
157	114.8	54.0	162.2





#93

1,2,4-Trichlorobenzene

Concen: 3.320 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

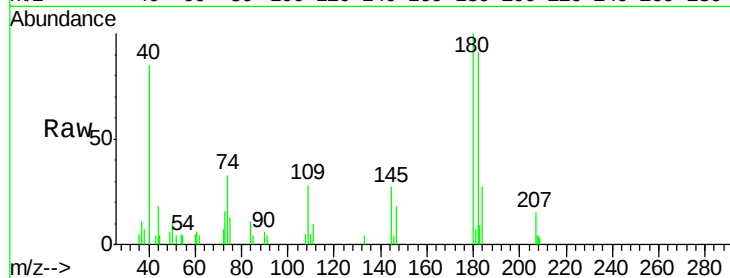
ClientSampleId :

VSTDIC005

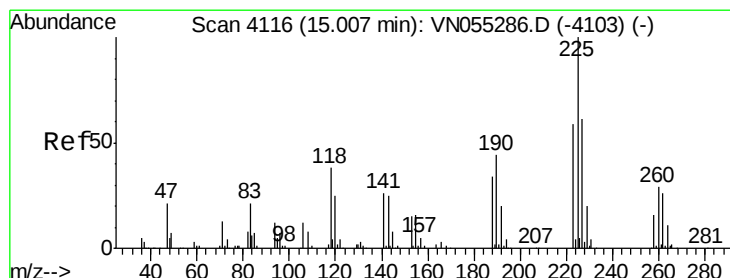
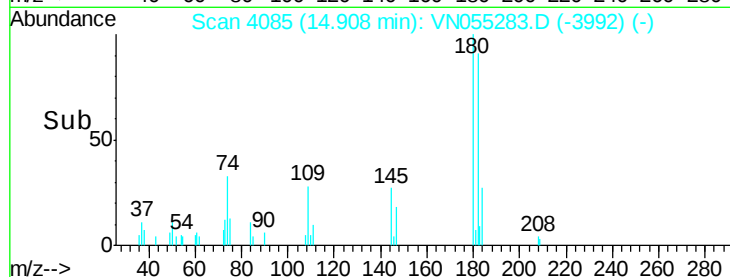
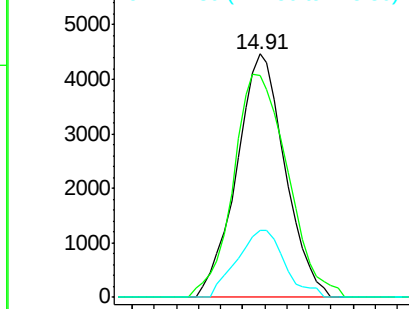
Tot Ion:	180	Resp:	6776
Ion Ratio	Lower	Upper	
180	100		
182	103.0	48.3	144.9
145	27.2	14.2	42.6

Manual Integrations
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MMDadoda
4/30/2019 11:58:49 AM



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: 5.672 ug/l

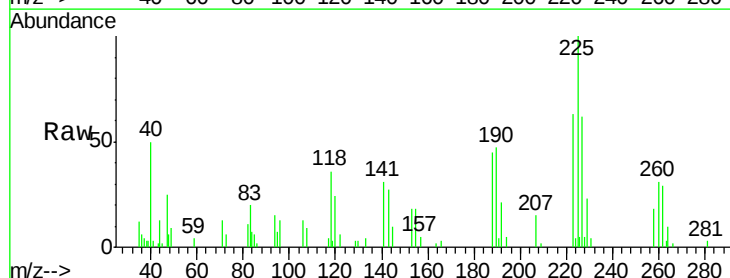
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

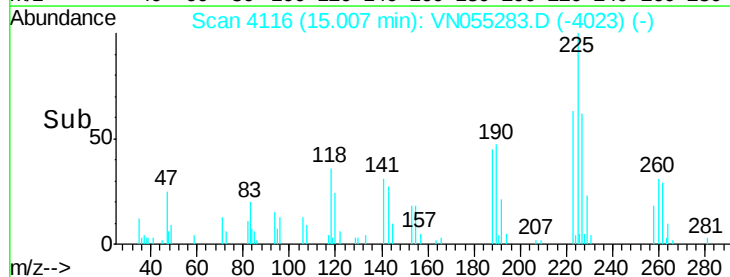
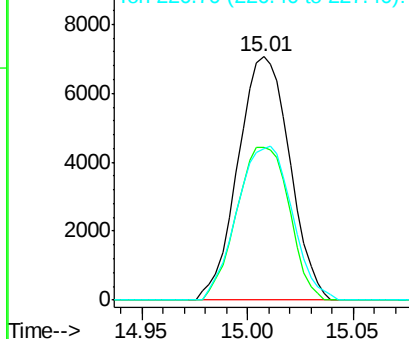
Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Tgt Ion:	225	Resp:	12032
Ion Ratio	Lower	Upper	
225	100		
223	63.6	30.3	90.8
227	67.2	30.9	92.7



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: 3.511 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Instrument :

MSVOA_N

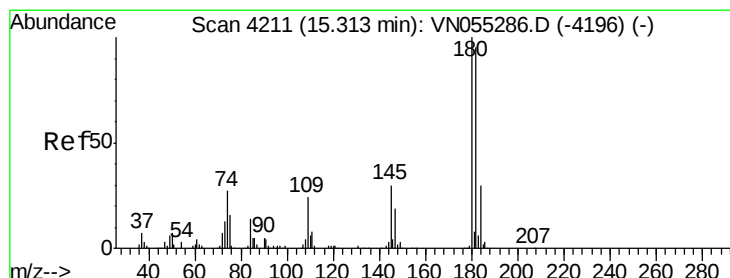
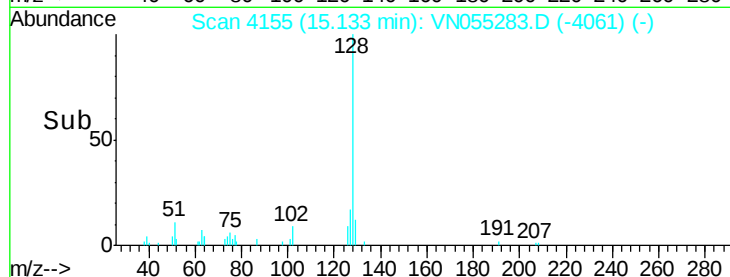
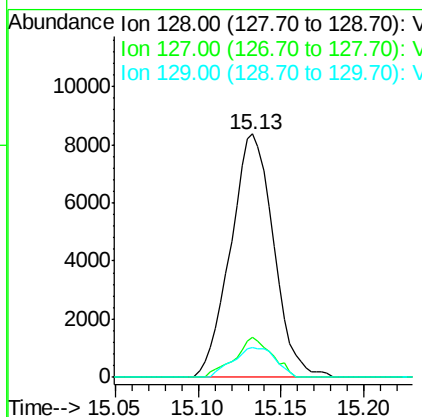
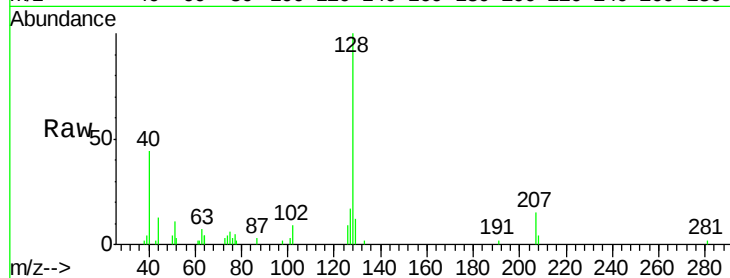
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	15091
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.7	16.1
129	12.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
4/30/2019 11:58:49 AM



#96

1,2,3-Trichlorobenzene

Concen: 3.358 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055283.D

Acq: 29 Apr 2019 10:16

Tgt Ion:	180	Resp:	7116
Ion Ratio	Lower	Upper	
180	100		
182	88.8	48.3	144.9
145	37.8	15.2	45.6

