

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082219\
 Data File : VN057438.D
 Acq On : 22 Aug 2019 17:26
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/23/2019 2:40:01 PM

Quant Time: Aug 23 04:32:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 04:20:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	390930	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	704959	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	579346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152871	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	34301	7.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	14.28%	
35) Dibromofluoromethane	7.58	113	25614	5.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.00%	
50) Toluene-d8	10.08	98	81951	4.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.52%	
62) 4-Bromofluorobenzene	12.40	95	28282	4.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	20055	5.571	ug/l	89
3) Chloromethane	2.05	50	32491	7.428	ug/l	100
4) Vinyl Chloride	2.17	62	39470	8.913	ug/l	94
5) Bromomethane	2.54	94	28528	9.359	ug/l	97
6) Chloroethane	2.68	64	27079	9.158	ug/l	95
7) Trichlorofluoromethane	3.00	101	64540	9.430	ug/l	94
8) Diethyl Ether	3.39	74	25766	10.080	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.73	101	36392	9.305	ug/l	95
10) Methyl Iodide	3.92	142	24594	4.546	ug/l	97
11) Tert butyl alcohol	4.79	59	22677	35.146	ug/l #	88
12) 1,1-Dichloroethene	3.70	96	37549	9.640	ug/l	95
13) Acrolein	3.58	56	20996	47.229	ug/l	99
14) Allyl chloride	4.29	41	48749	8.061	ug/l	98
15) Acrylonitrile	4.97	53	60584	34.837	ug/l	96
16) Acetone	3.79	43	76717	48.611	ug/l #	88
17) Carbon Disulfide	4.02	76	64903	6.706	ug/l	98
18) Methyl Acetate	4.30	43	37369	5.843	ug/l #	81
19) Methyl tert-butyl Ether	5.03	73	82597	7.200	ug/l	96
20) Methylene Chloride	4.52	84	26246	6.184	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	24479	6.428	ug/l	95
22) Diisopropyl ether	5.94	45	97297	8.048	ug/l	92
23) Vinyl Acetate	5.87	43	403883	41.961	ug/l	99
24) 1,1-Dichloroethane	5.82	63	53754	7.512	ug/l	95
25) 2-Butanone	6.83	43	92972	40.116	ug/l	96
26) 2,2-Dichloropropane	6.80	77	45387	7.784	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	30400	6.721	ug/l	95
28) Bromochloromethane	7.18	49	25920	7.609	ug/l	94
29) Tetrahydrofuran	7.20	42	58980	39.712	ug/l	98
30) Chloroform	7.35	83	51278	6.923	ug/l	93
31) Cyclohexane	7.63	56	57583	8.824	ug/l #	89
32) 1,1,1-Trichloroethane	7.55	97	43290	6.948	ug/l	97
36) 1,1-Dichloropropene	7.78	75	37690	5.940	ug/l	99
37) Ethyl Acetate	6.92	43	37643	7.051	ug/l #	94
38) Carbon Tetrachloride	7.75	117	35756	5.476	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	43523	5.845	ug/l	99
40) Benzene	8.03	78	112942	5.853	ug/l	99
41) Methacrylonitrile	7.16	41	16713	6.860	ug/l	97
42) 1,2-Dichloroethane	8.11	62	43151	6.586	ug/l	98
43) Isopropyl Acetate	8.16	43	67509	5.881	ug/l	99
44) Trichloroethene	8.83	130	24991	4.747	ug/l	98
45) 1,2-Dichloropropane	9.11	63	33009	6.549	ug/l	98
46) Dibromomethane	9.20	93	20099	6.039	ug/l	99
47) Bromodichloromethane	9.40	83	41554	6.252	ug/l	90
48) Methyl methacrylate	9.19	41	31606	7.066	ug/l	97
49) 1,4-Dioxane	9.20	88	8885	103.783	ug/l #	78
51) 4-Methyl-2-Pentanone	9.98	43	190142	34.320	ug/l	99
52) Toluene	10.15	92	62473	5.260	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	42162	5.891	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	48203	6.123	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	26136	5.600	ug/l	95
56) Ethyl methacrylate	10.43	69	41491	6.000	ug/l	99
57) 1,3-Dichloropropane	10.71	76	44779	5.674	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	37132	20.926	ug/l	95
59) 2-Hexanone	10.75	43	124834	31.718	ug/l	97
60) Dibromochloromethane	10.90	129	27466	5.302	ug/l	92
61) 1,2-Dibromoethane	11.00	107	24691	4.998	ug/l	92
64) Tetrachloroethene	10.63	164	22118	4.557	ug/l	98
65) Chlorobenzene	11.43	112	61625	5.257	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	22889	5.107	ug/l	95
67) Ethyl Benzene	11.51	91	116823	5.579	ug/l	100
68) m/p-Xylenes	11.62	106	77958	10.231	ug/l	95
69) o-Xylene	11.95	106	39534	5.278	ug/l	100
70) Styrene	11.96	104	58894	4.931	ug/l	98
71) Bromoform	12.13	173	15424	4.463	ug/l #	92
73) Isopropylbenzene	12.25	105	105128	7.012	ug/l	98
74) N-amyl acetate	12.07	43	50628	10.469	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	30475	6.952	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	25643m	6.821	ug/l	
77) Bromobenzene	12.53	156	19655	5.197	ug/l	88
78) n-propylbenzene	12.59	91	104446	6.917	ug/l	98
79) 2-Chlorotoluene	12.68	91	64734	6.714	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	78634	6.521	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	9802	7.635	ug/l	98
82) 4-Chlorotoluene	12.78	91	57484	6.452	ug/l	98
83) tert-Butylbenzene	12.99	119	76017	6.852	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	70095	6.260	ug/l	97
85) sec-Butylbenzene	13.17	105	86562	6.453	ug/l	98
86) p-Isopropyltoluene	13.29	119	70874	6.224	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	25374	4.814	ug/l	100
88) 1,4-Dichlorobenzene	13.37	146	24466	4.853	ug/l	88
89) n-Butylbenzene	13.62	91	57112	6.819	ug/l	98
90) Hexachloroethane	13.88	117	17114	7.198	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	23782	4.825	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4118	7.132	ug/l	90

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MSVOA_N
ClientSampleId :
VSTDICC005

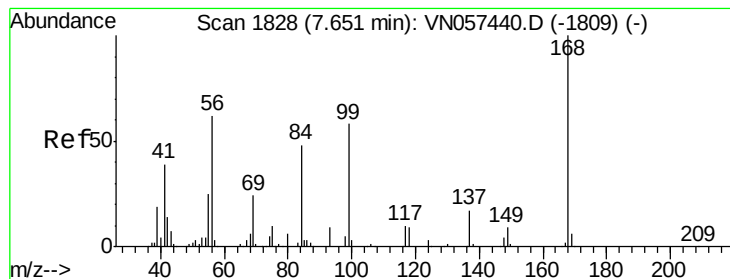
Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	6821	4.148	ug/l	96
94) Hexachlorobutadiene	15.01	225	8932	4.106	ug/l	99
95) Naphthalene	15.13	128	24187	6.314	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	6675	4.223	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 390930

Ion Ratio Lower Upper

168 100

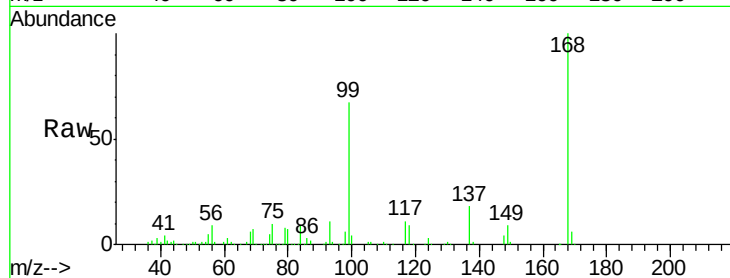
99 66.9 50.6 76.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

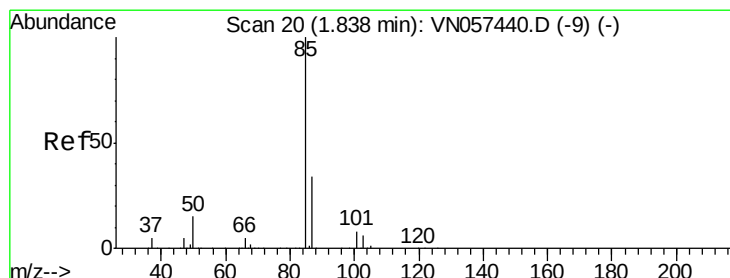
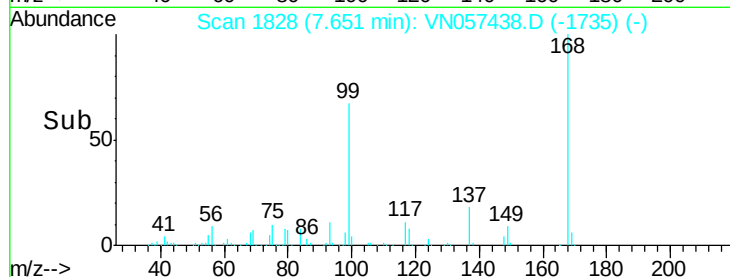
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50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 5.571 ug/l

RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

Lab File: VN057438.D

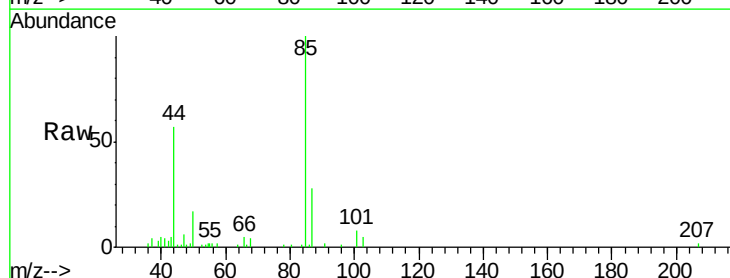
Acq: 22 Aug 2019 17:26

Tgt Ion: 85 Resp: 20055

Ion Ratio Lower Upper

85 100

87 28.0 17.1 51.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

15000

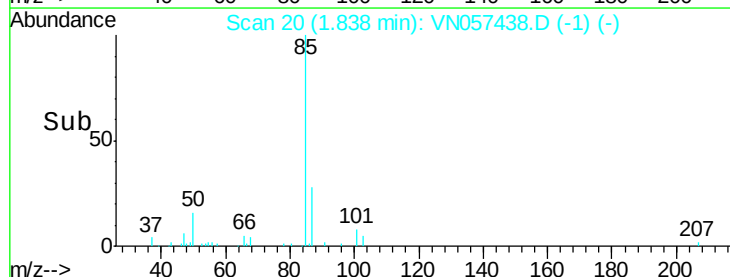
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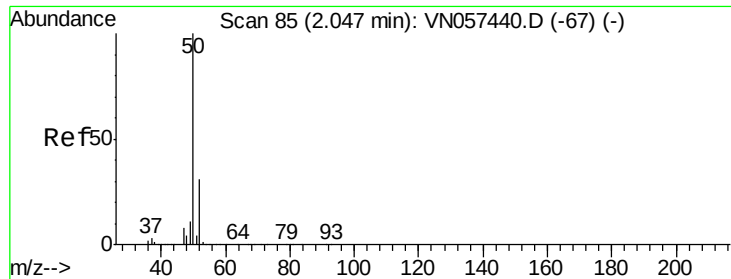
5000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 7.428 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 32491

Ion Ratio Lower Upper

50 100

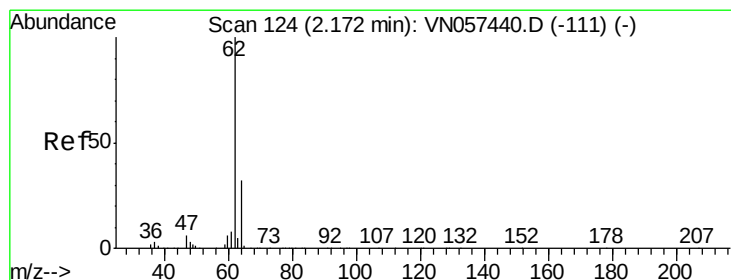
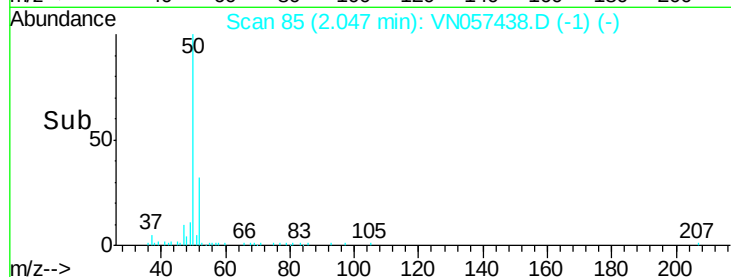
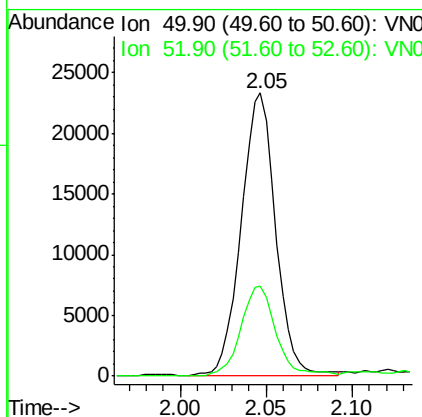
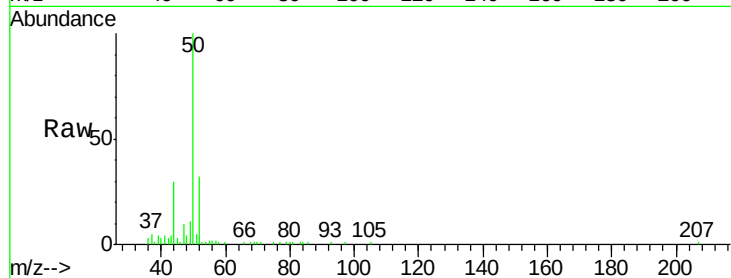
52 31.6 25.1 37.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 8.913 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN057438.D

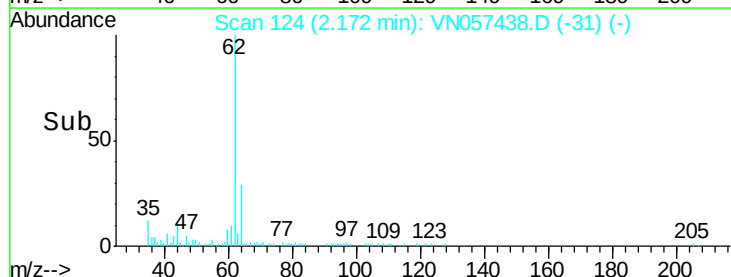
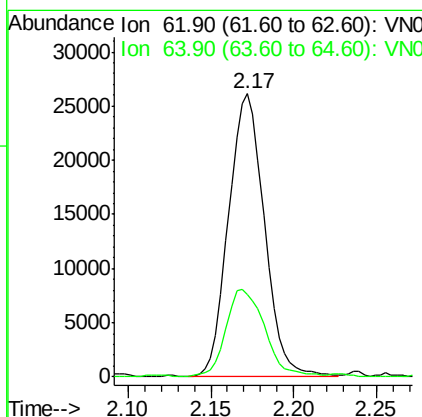
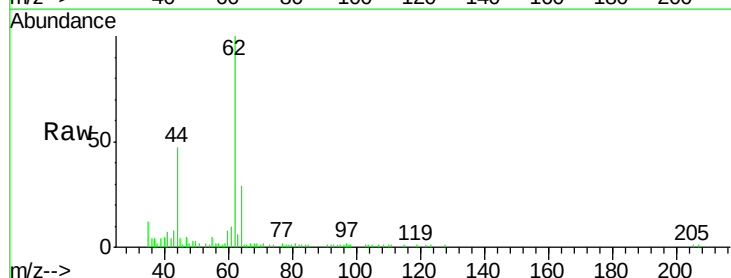
Acq: 22 Aug 2019 17:26

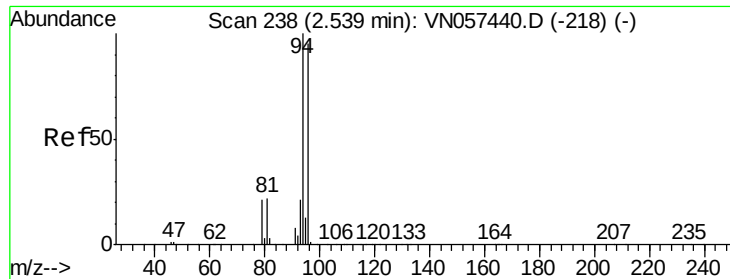
Tgt Ion: 62 Resp: 39470

Ion Ratio Lower Upper

62 100

64 29.1 25.8 38.8





#5

Bromomethane

Concen: 9.359 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 28528

Ion Ratio Lower Upper

94 100

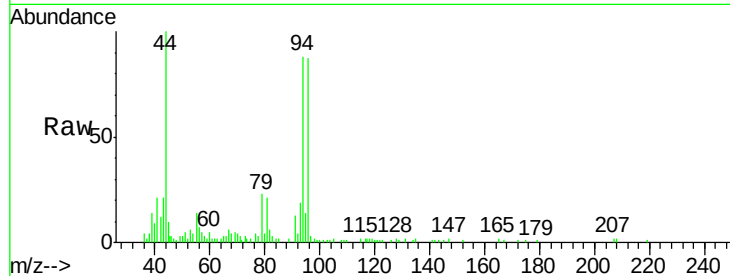
96 98.2 76.2 114.4

Manual Integrations

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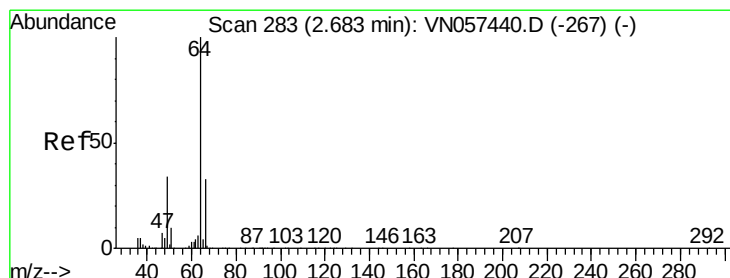
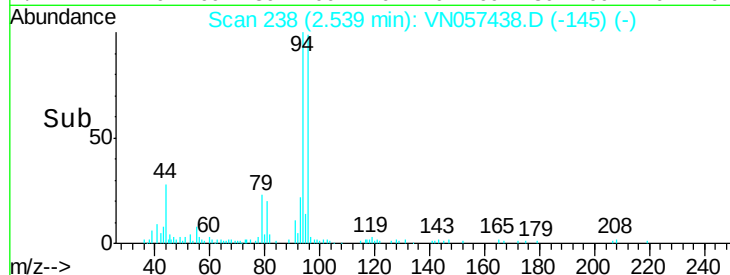
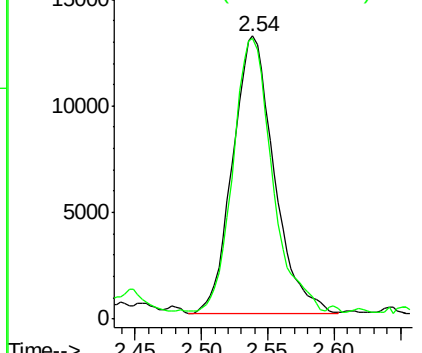
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 9.158 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN057438.D

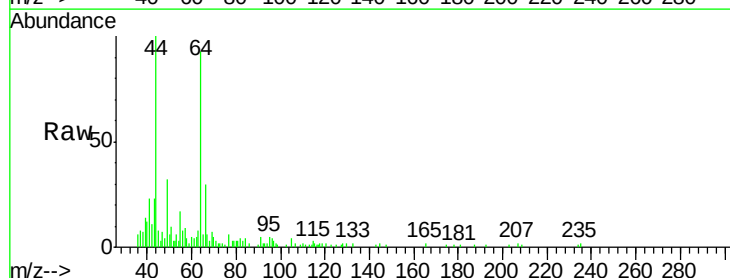
Acq: 22 Aug 2019 17:26

Tgt Ion: 64 Resp: 27079

Ion Ratio Lower Upper

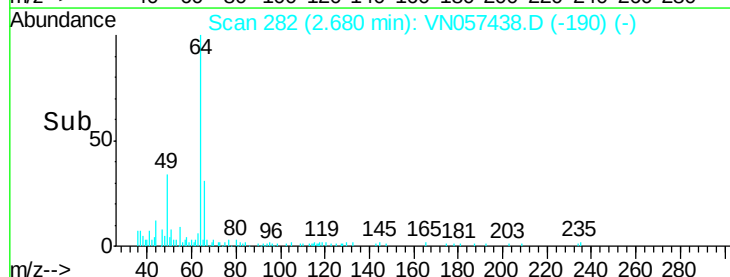
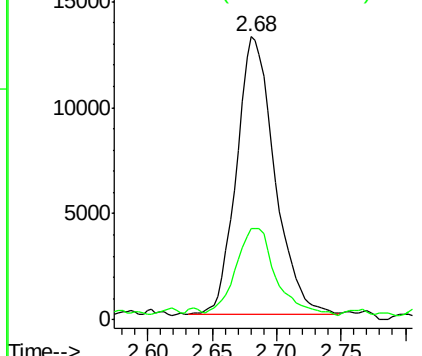
64 100

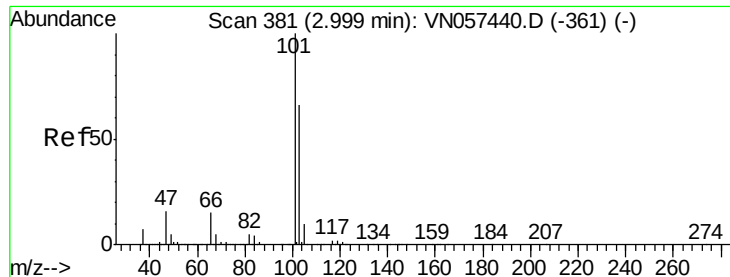
66 30.9 26.8 40.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

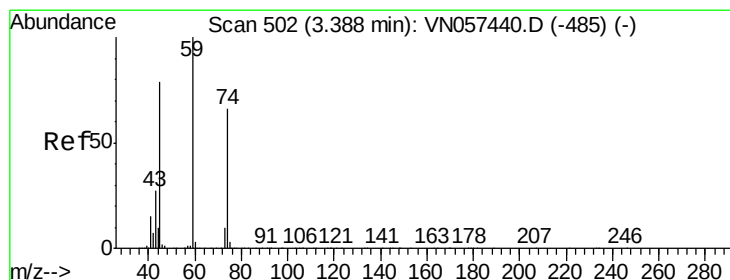
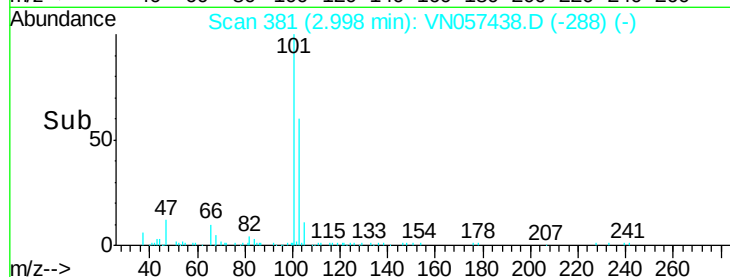
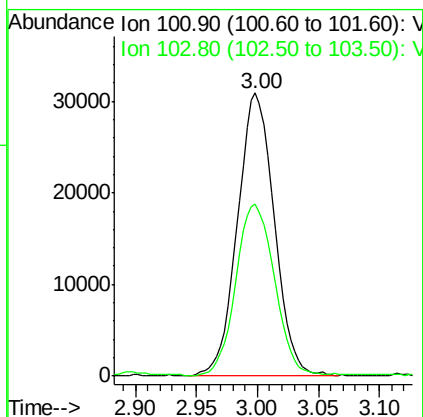
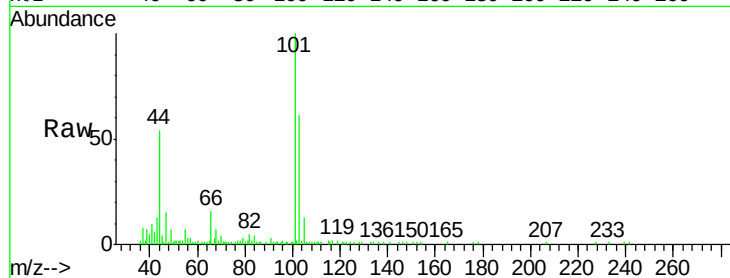
Trichlorofluoromethane
 Concen: 9.430 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.6	52.6	78.8

Manual Integrations
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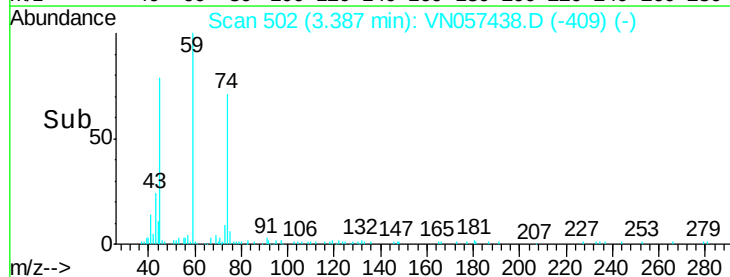
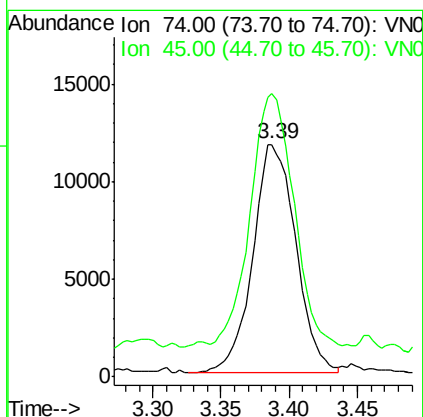
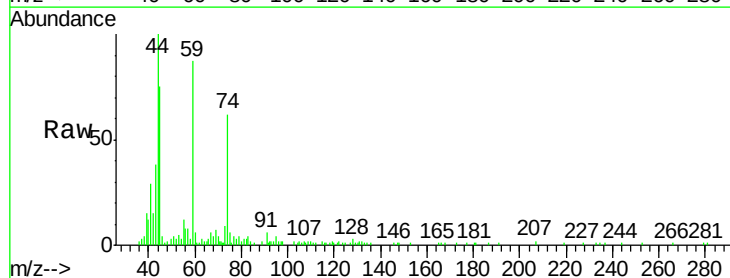
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 8/23/2019 2:40:01 PM

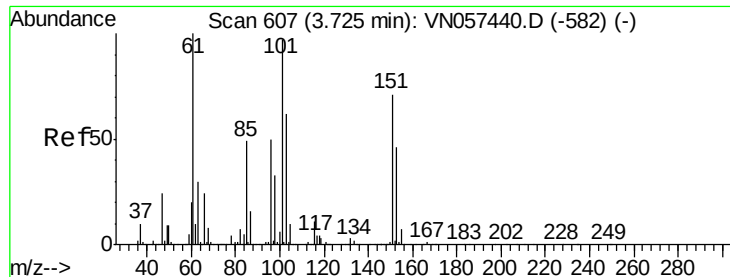


#8

Diethyl Ether
 Concen: 10.080 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.2	57.9	173.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.305 ug/l

RT: 3.73 min Scan# 607

Delta R.T. -0.00 min

Lab File: VN057438.D

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Instrument :

MSVOA_N

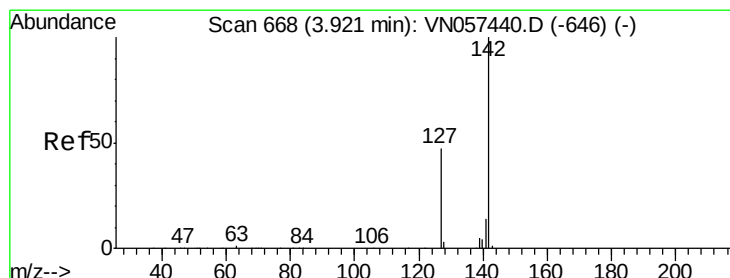
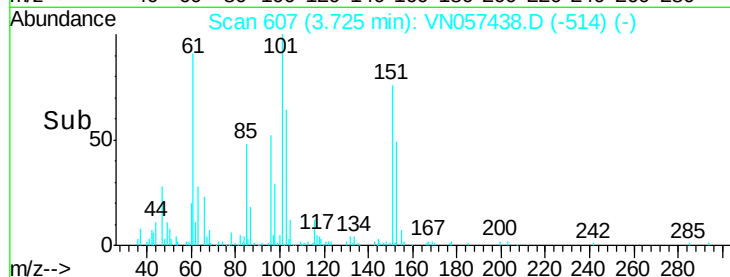
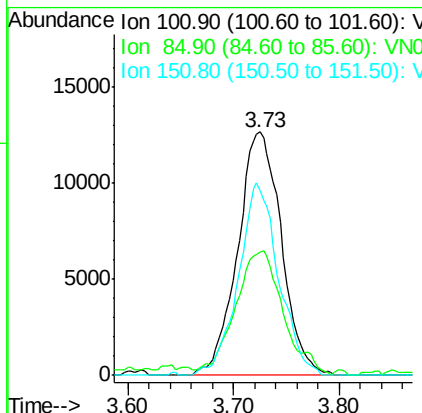
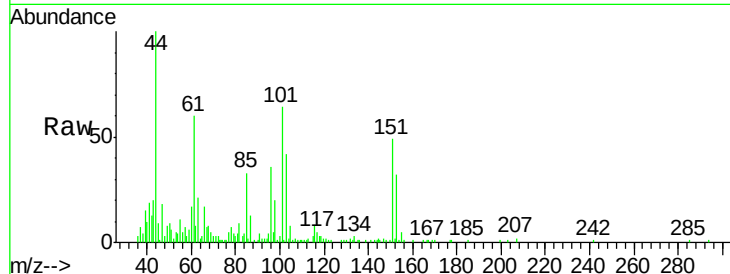
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	36392
Ion Ratio	Lower	Upper	
101	100		
85	56.5	40.0	60.0
151	72.9	57.0	85.6

Manual Integrations
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#10

Methyl Iodide

Concen: 4.546 ug/l

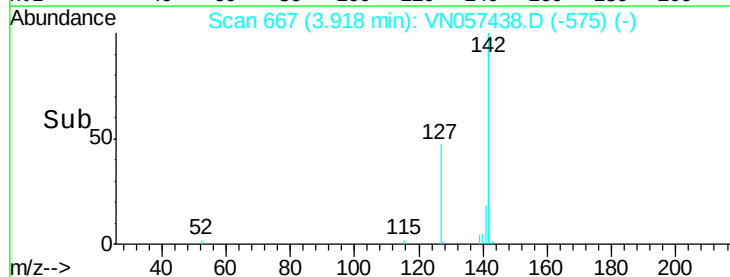
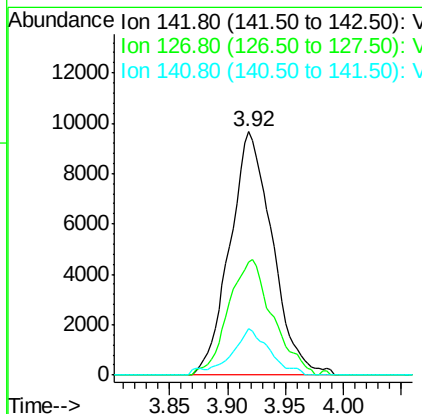
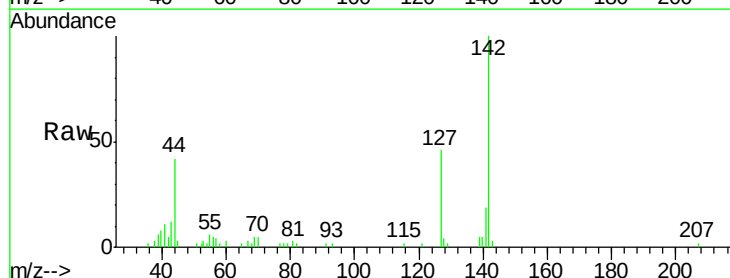
RT: 3.92 min Scan# 667

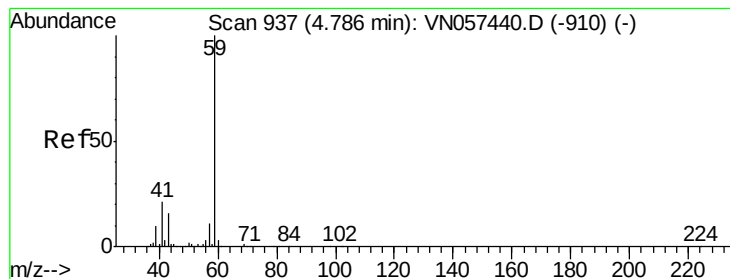
Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	142	Resp:	24594
Ion Ratio	Lower	Upper	
142	100		
127	49.2	37.8	56.8
141	16.3	11.9	17.9





#11

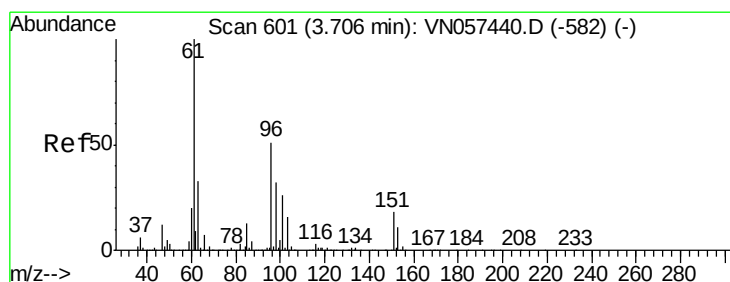
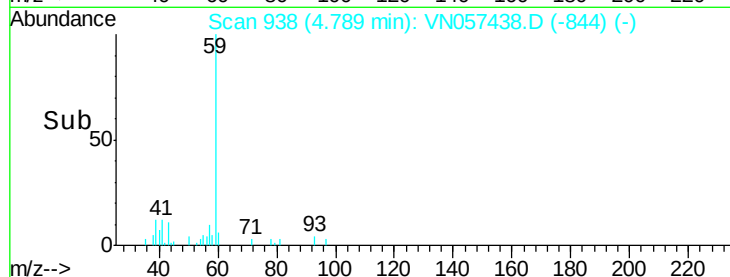
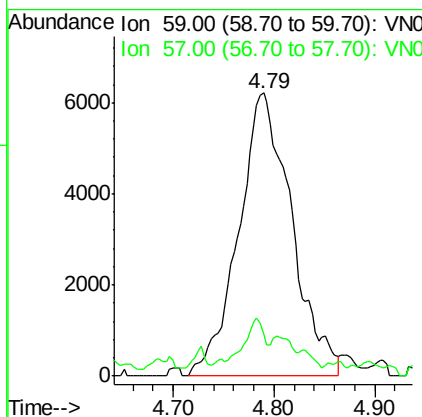
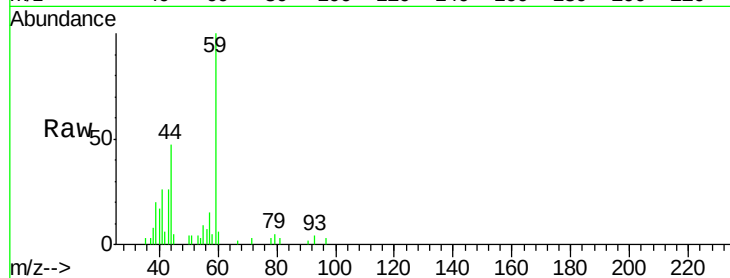
Tert butyl alcohol
 Concen: 35.146 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.6	9.1	13.7#

Manual Integrations
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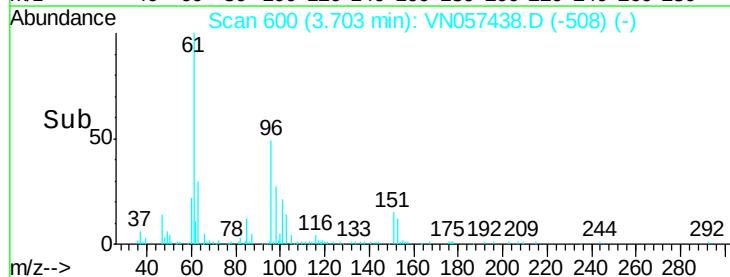
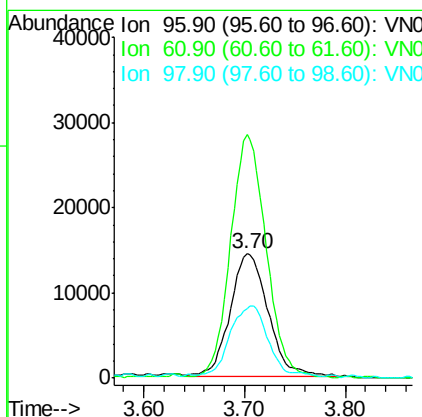
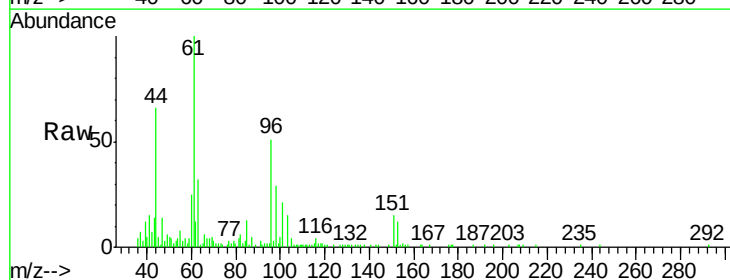
MMDadoda
 8/23/2019 2:40:01 PM

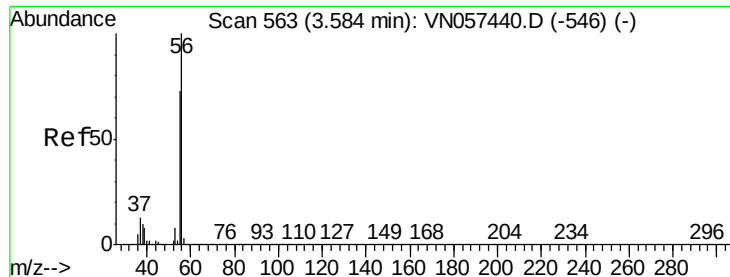


#12

1,1-Dichloroethene
 Concen: 9.640 ug/l
 RT: 3.70 min Scan# 600
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	198.8	155.3	232.9
98	55.6	50.2	75.2





#13

Acrolein

Concen: 47.229 ug/l

RT: 3.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 20996

Ion Ratio Lower Upper

56 100

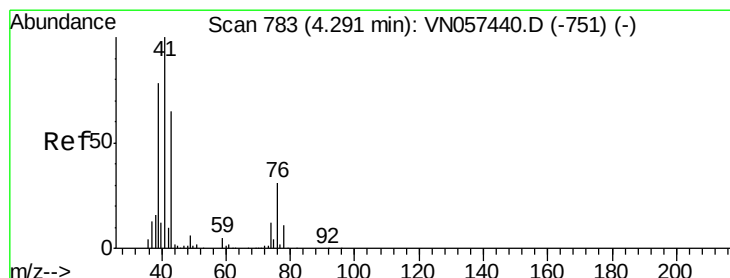
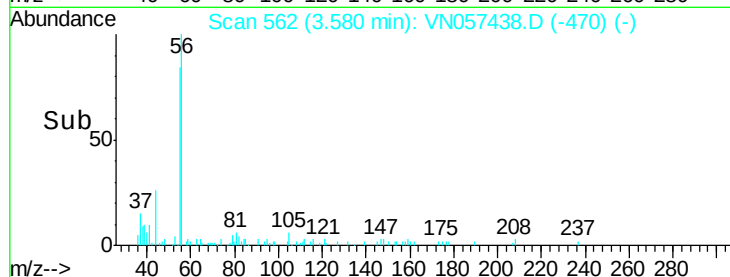
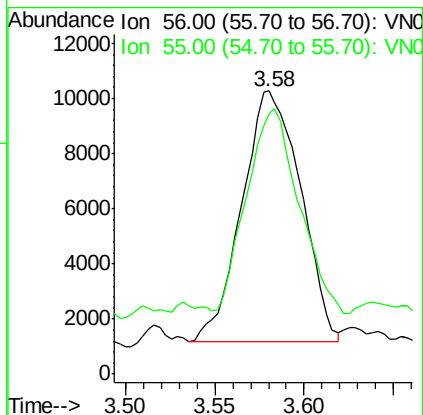
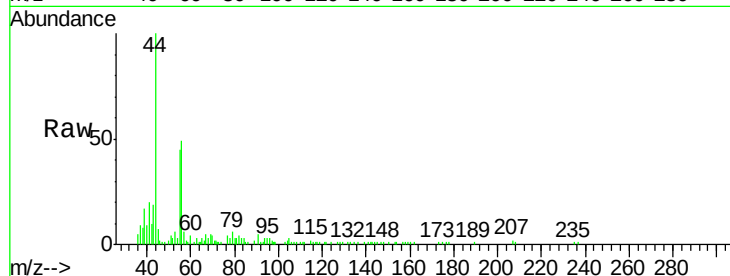
55 73.1 59.0 88.4

Manual Integrations

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#14

Allyl chloride

Concen: 8.061 ug/l

RT: 4.29 min Scan# 783

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

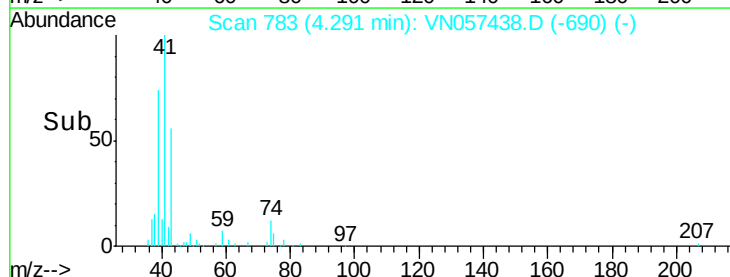
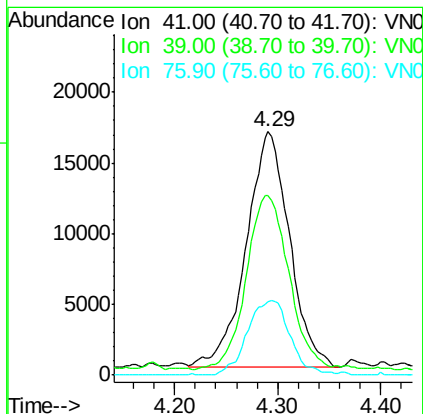
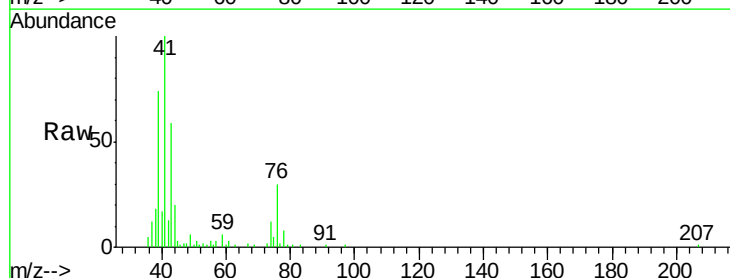
Tgt Ion: 41 Resp: 48749

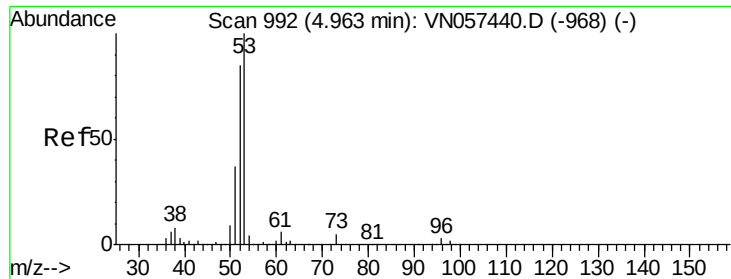
Ion Ratio Lower Upper

41 100

39 71.6 57.4 86.2

76 31.1 22.9 34.3





#15

Acrylonitrile

Concen: 34.837 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

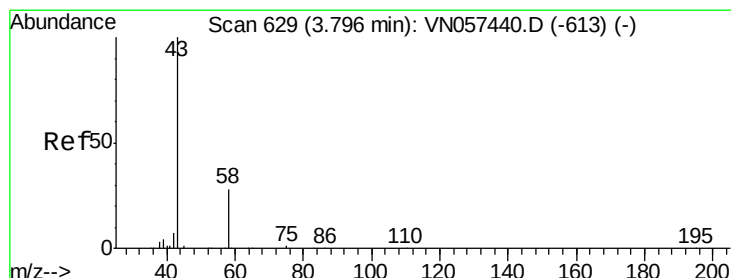
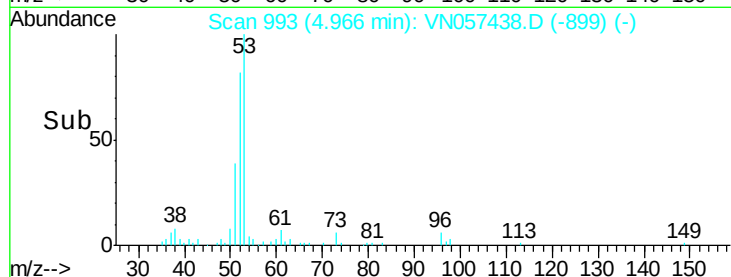
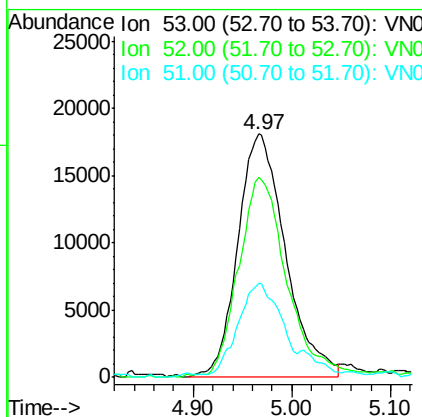
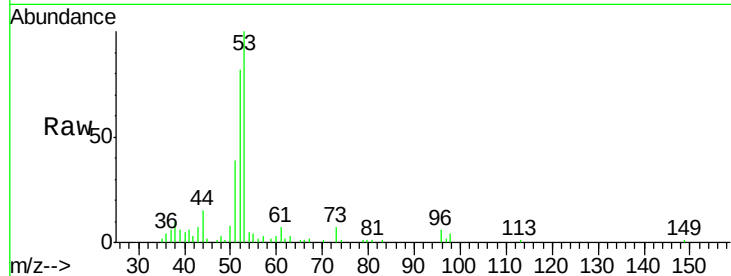
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	60584
Ion	Ratio	Lower	Upper
53	100		
52	80.9	67.0	100.6
51	33.1	29.9	44.9

Manual Integrations
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#16

Acetone

Concen: 48.611 ug/l

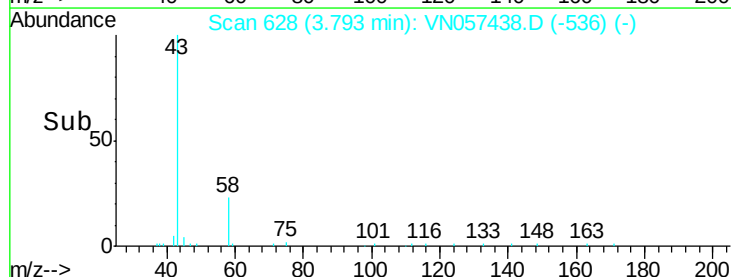
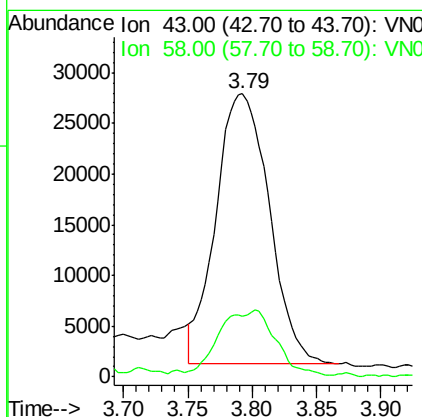
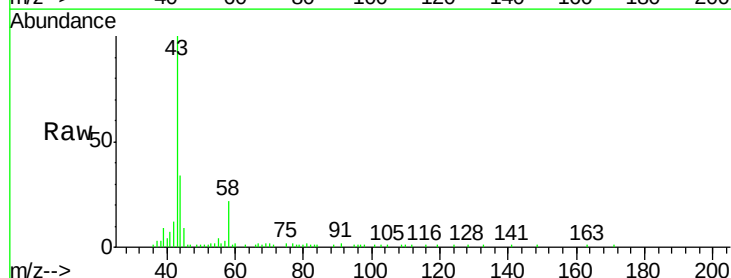
RT: 3.79 min Scan# 628

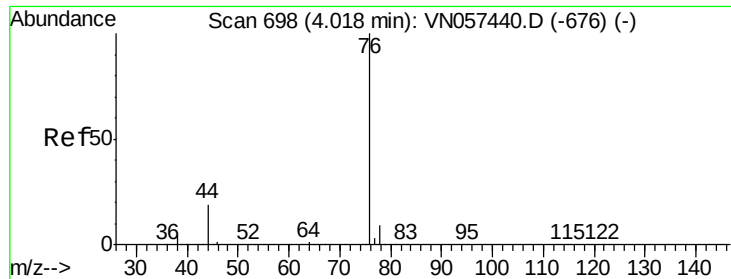
Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	43	Resp:	76717
Ion	Ratio	Lower	Upper
43	100		
58	21.6	22.1	33.1#





#17

Carbon Disulfide

Concen: 6.706 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 64903

Ion Ratio Lower Upper

76 100

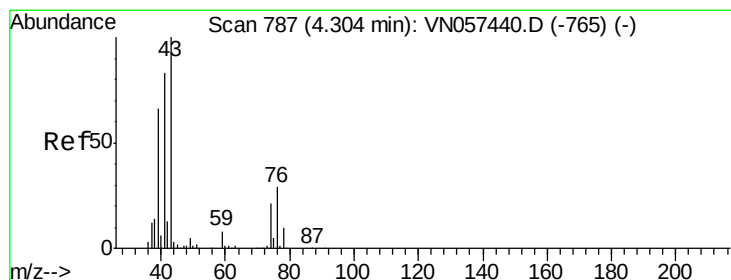
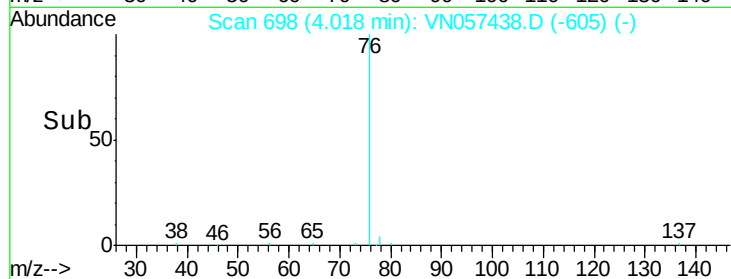
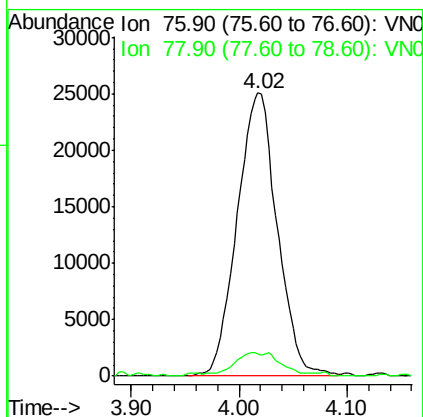
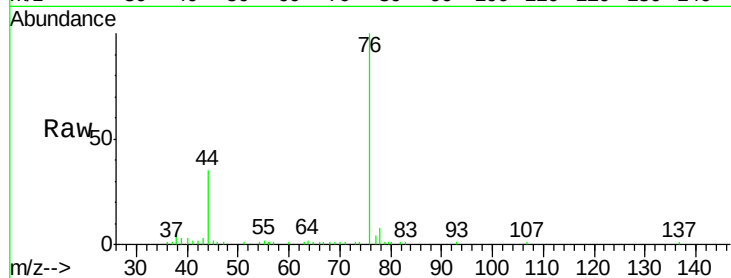
78 8.0 7.1 10.7

Manual Integrations

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#18

Methyl Acetate

Concen: 5.843 ug/l

RT: 4.30 min Scan# 787

Delta R.T. -0.00 min

Lab File: VN057438.D

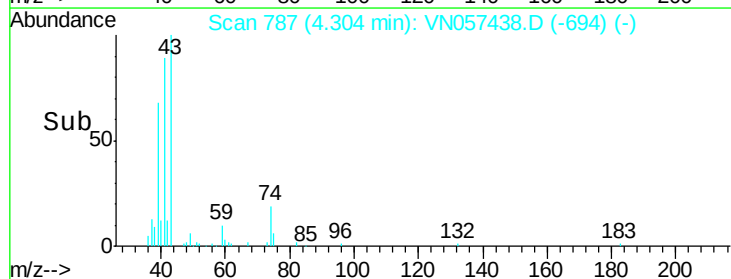
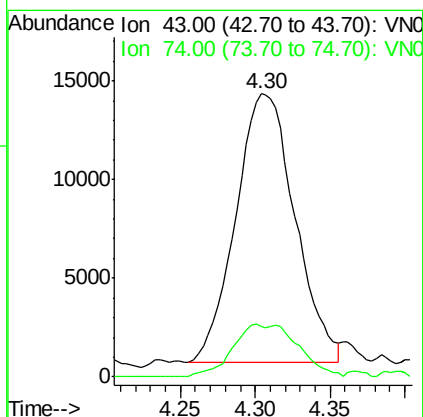
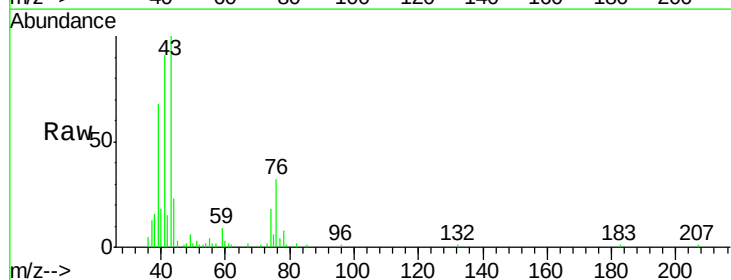
Acq: 22 Aug 2019 17:26

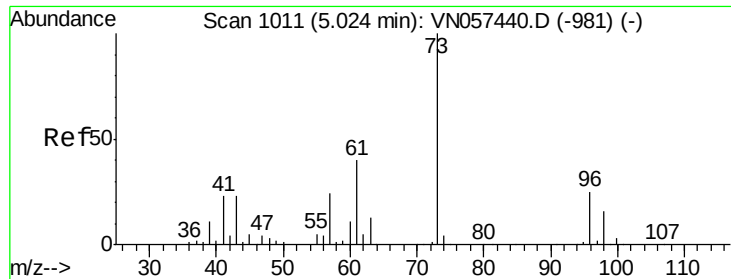
Tgt Ion: 43 Resp: 37369

Ion Ratio Lower Upper

43 100

74 11.2 15.9 23.9#





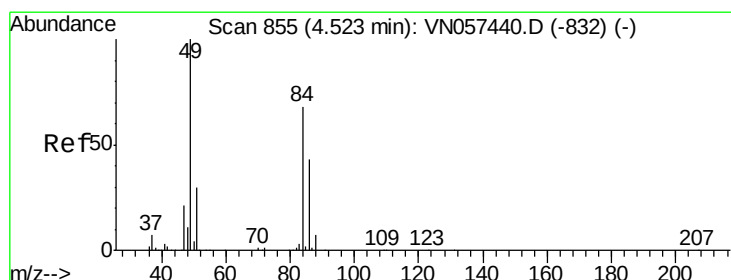
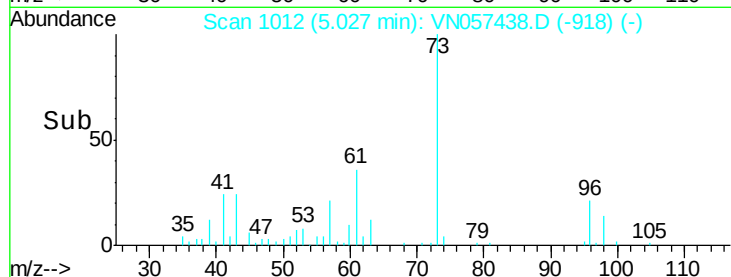
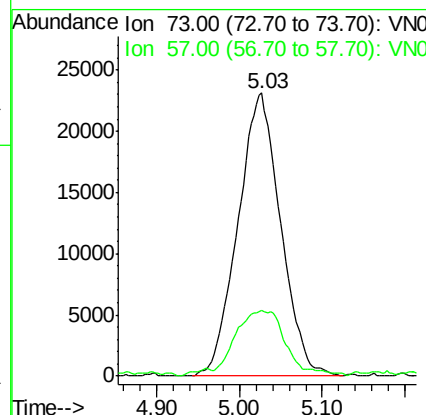
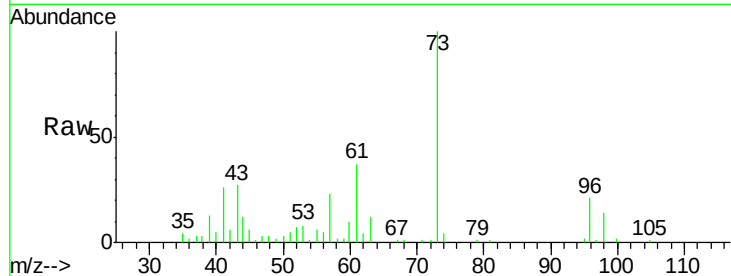
#19
Methyl tert-butyl Ether
Concen: 7.200 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.0	19.1	28.7

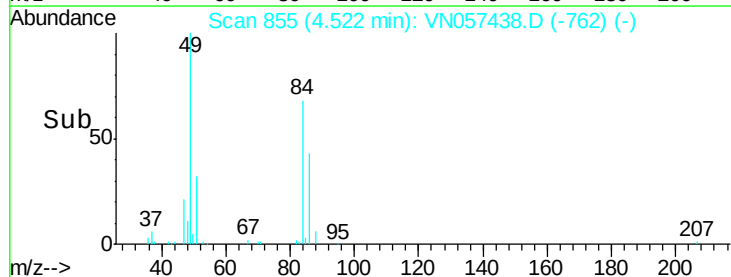
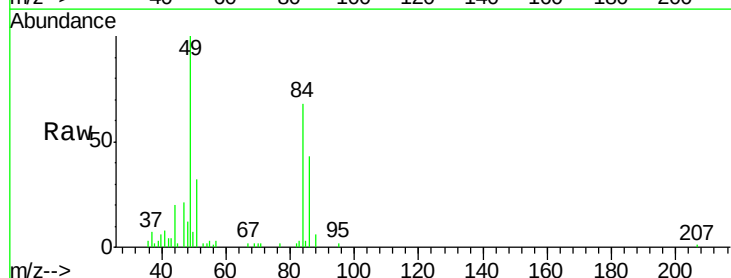
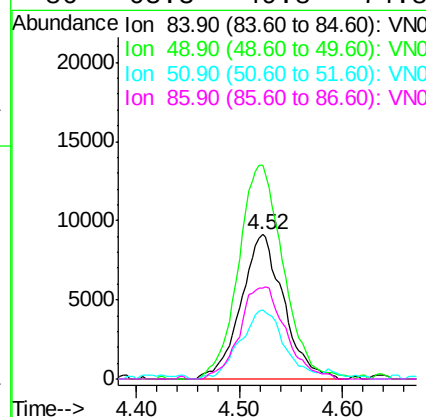
Manual Integrations
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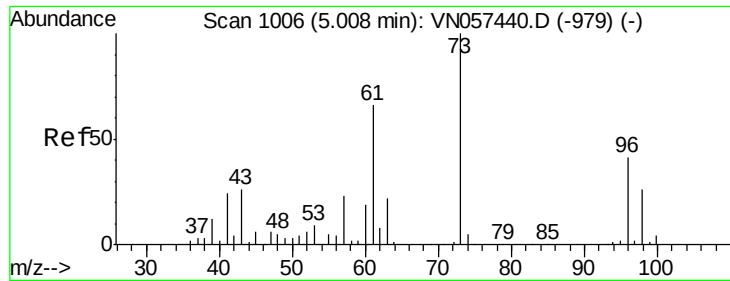
MMDadoda
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#20
Methylene Chloride
Concen: 6.184 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.7	117.0	175.4
51	47.8	35.5	53.3
86	63.3	49.8	74.8





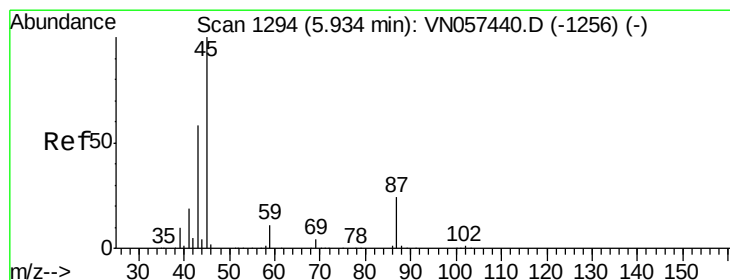
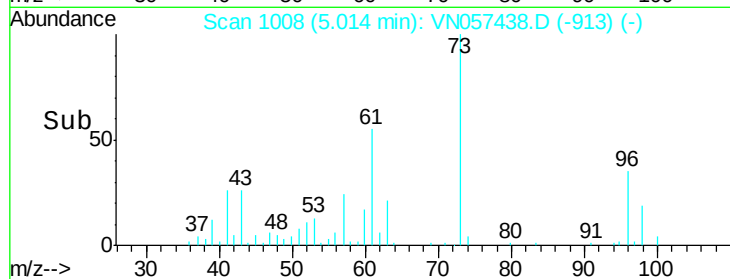
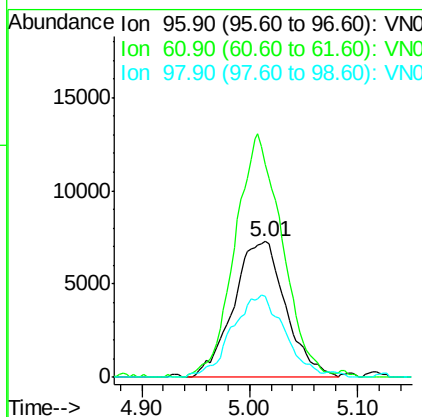
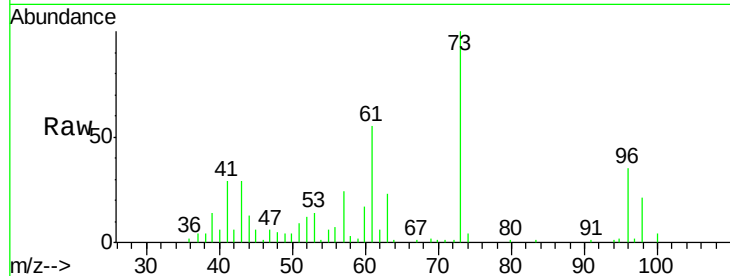
#21
trans-1,2-Dichloroethene
Concen: 6.428 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.01 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.4	127.9	191.9
98	56.8	50.6	76.0

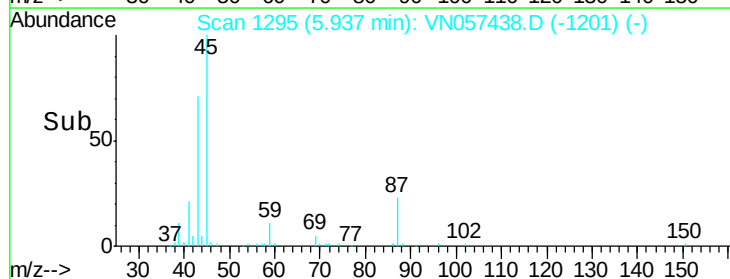
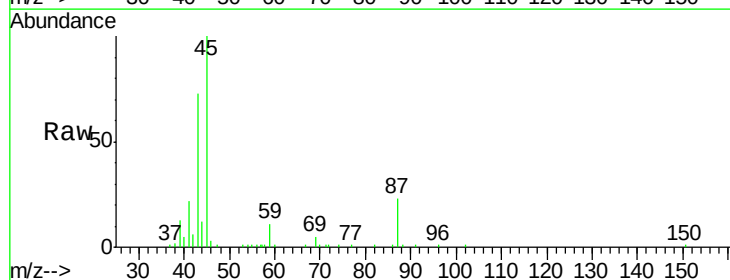
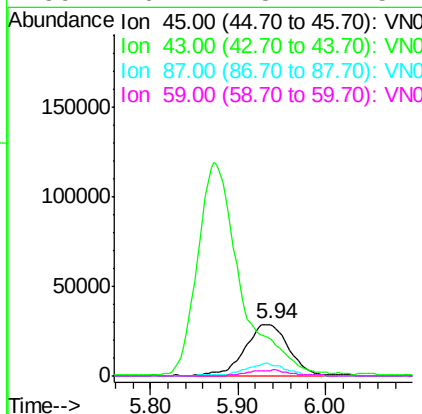
Manual Integrations
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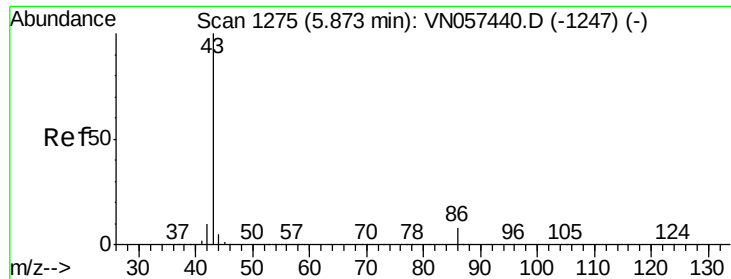
MMDadoda
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#22
Diisopropyl ether
Concen: 8.048 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.4	46.9	70.3
87	22.9	19.3	28.9
59	10.7	8.7	13.1





#23

Vinyl Acetate

Concen: 41.961 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 403883

Ion Ratio Lower Upper

43 100

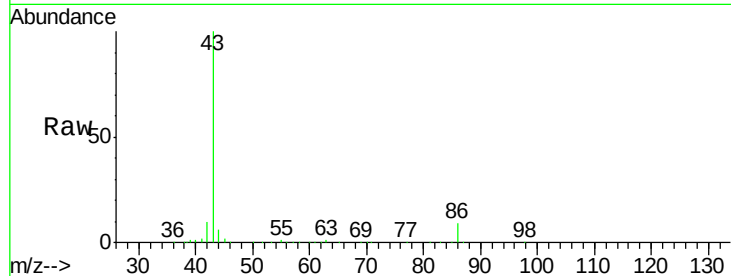
86 8.6 6.7 10.1

Manual Integrations

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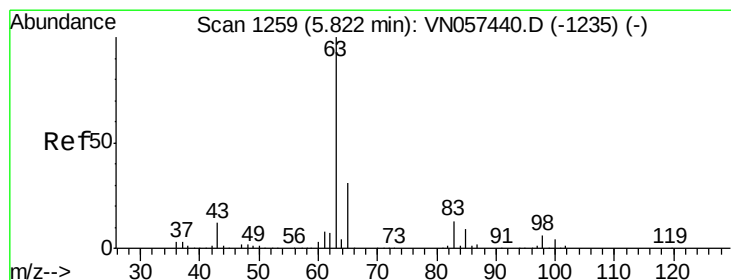
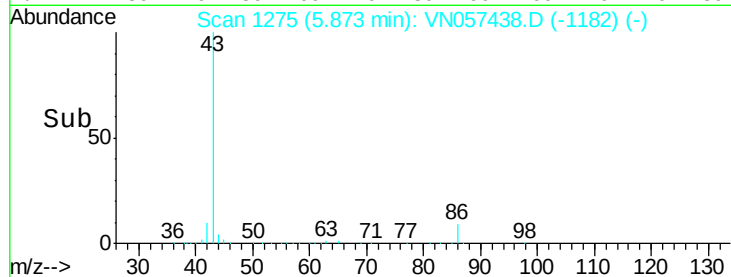
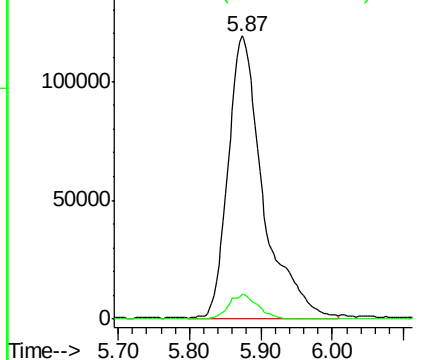
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 7.512 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

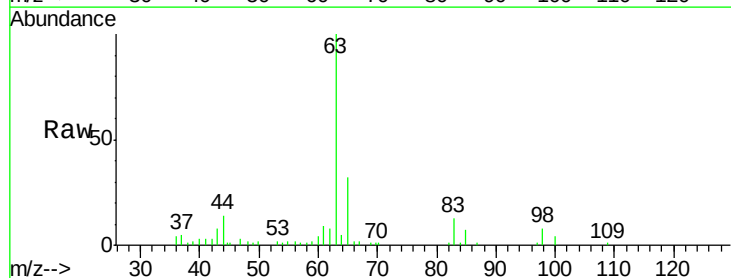
Tgt Ion: 63 Resp: 53754

Ion Ratio Lower Upper

63 100

98 8.1 2.9 8.6

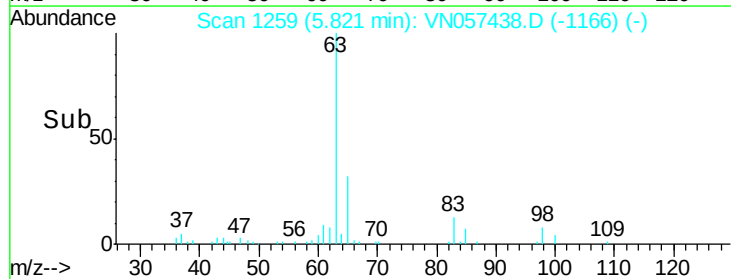
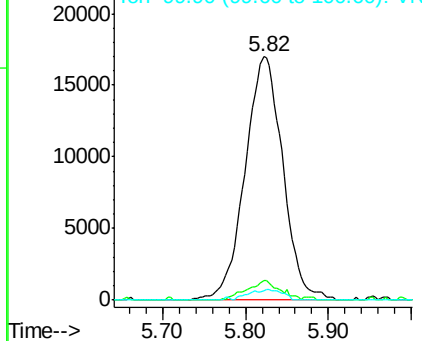
100 3.7 2.1 6.3

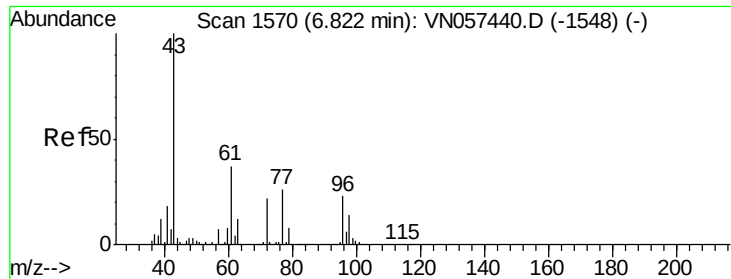


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





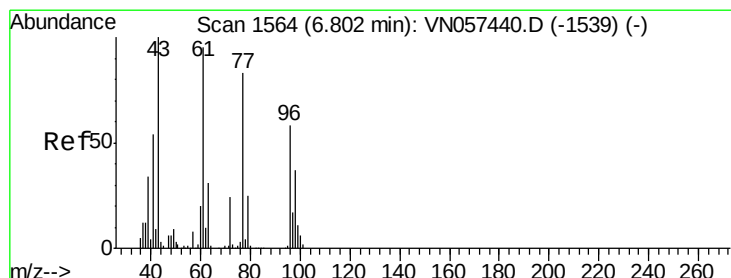
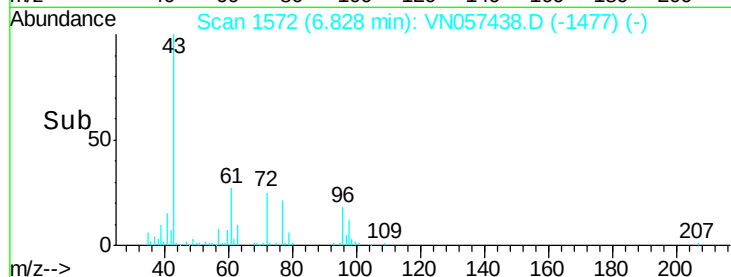
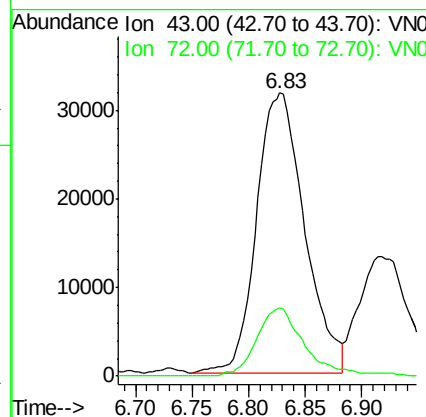
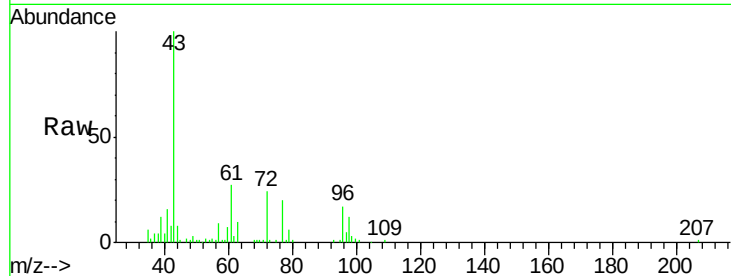
#25
2-Butanone
Concen: 40.116 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 92972
Ion Ratio Lower Upper
43 100
72 24.3 17.8 26.8

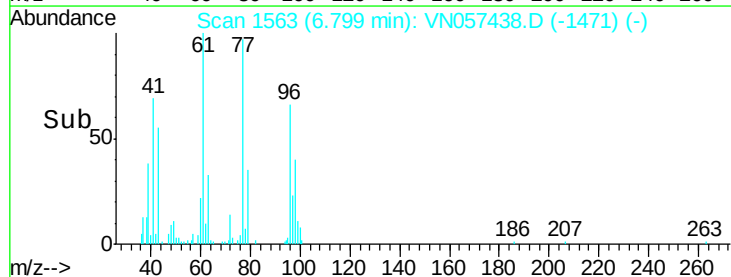
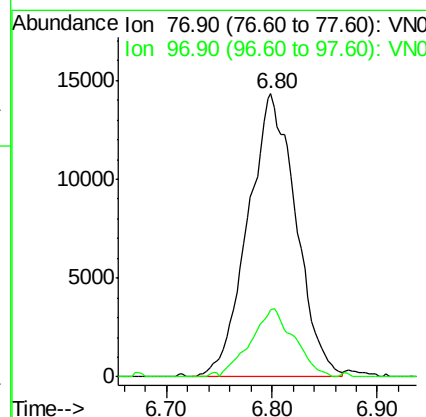
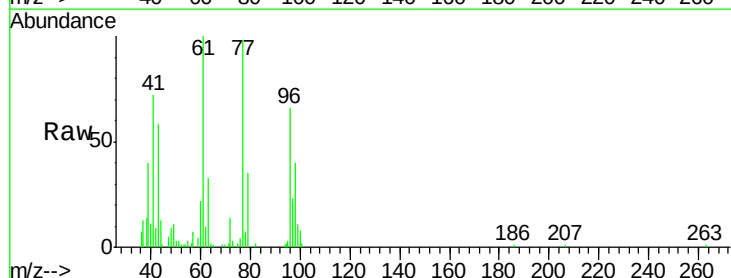
Manual Integrations
APPROVED

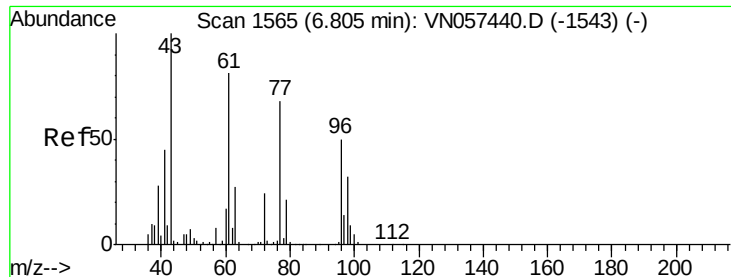
MMDadoda
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#26
2,2-Dichloropropane
Concen: 7.784 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion: 77 Resp: 45387
Ion Ratio Lower Upper
77 100
97 21.8 10.8 32.3





#27

cis-1,2-Dichloroethene

Concen: 6.721 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

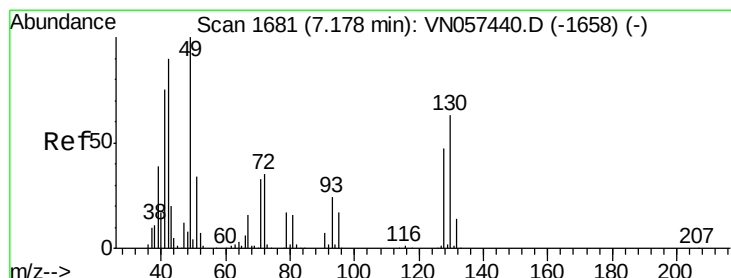
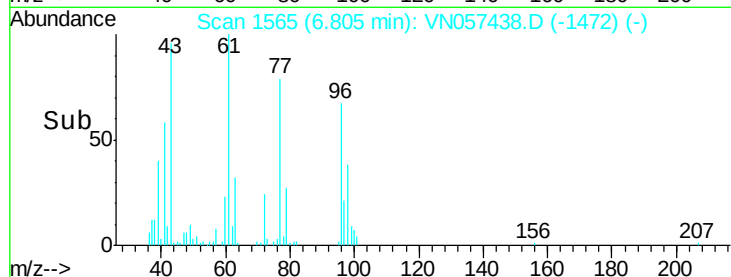
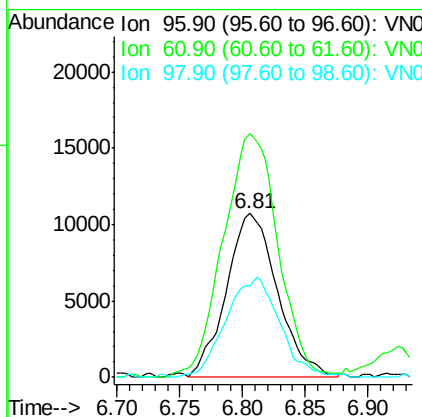
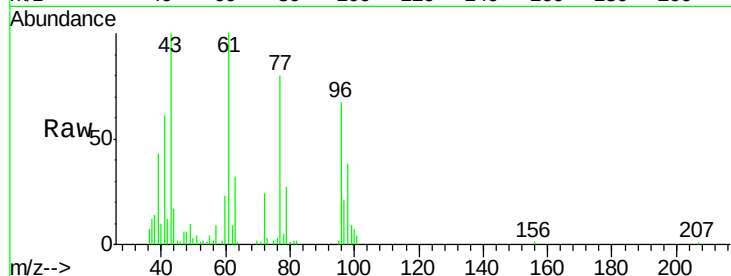
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	30400
Ion	Ratio	Lower	Upper
96	100		
61	159.4	0.0	334.8
98	64.4	0.0	127.4

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#28

Bromochloromethane

Concen: 7.609 ug/l

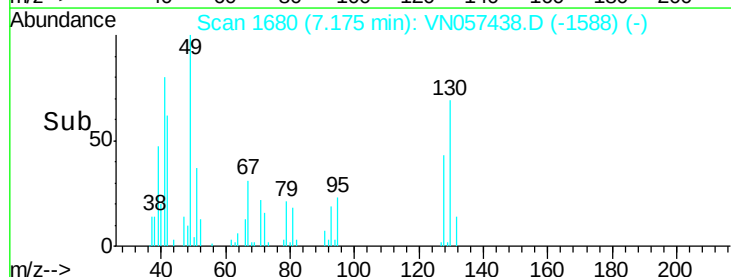
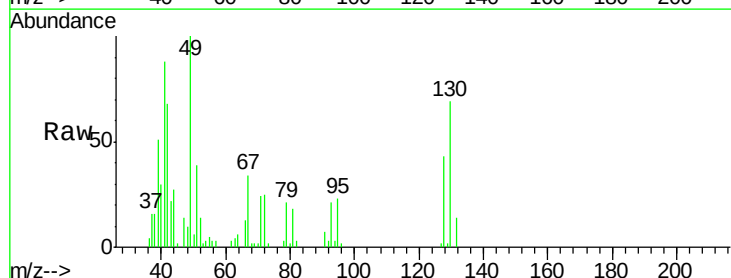
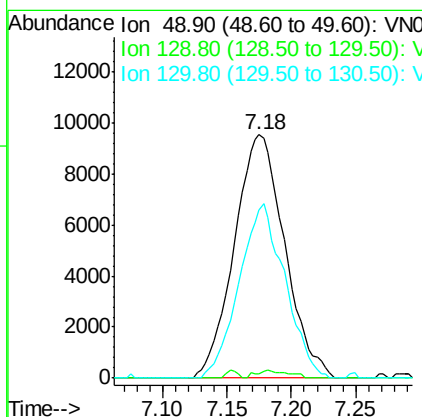
RT: 7.18 min Scan# 1680

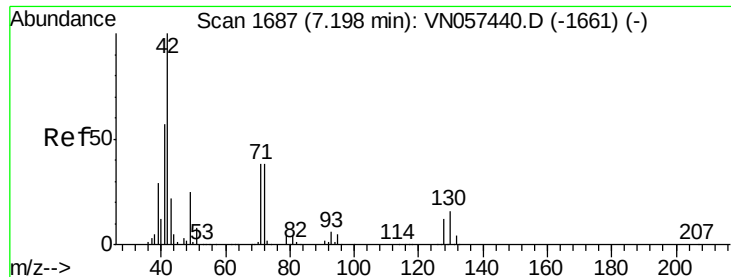
Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	49	Resp:	25920
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.6
130	65.0	48.6	72.8





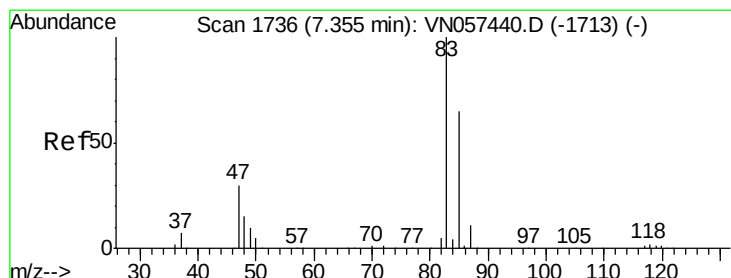
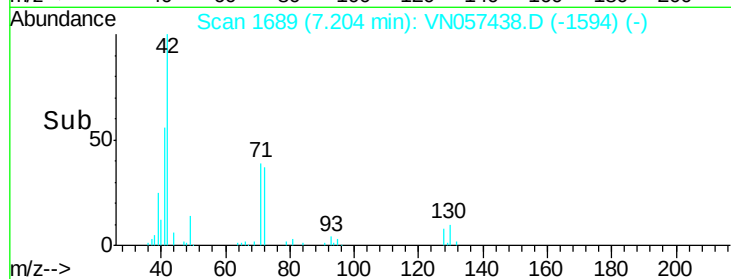
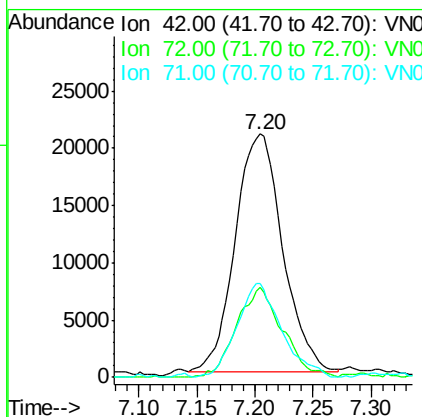
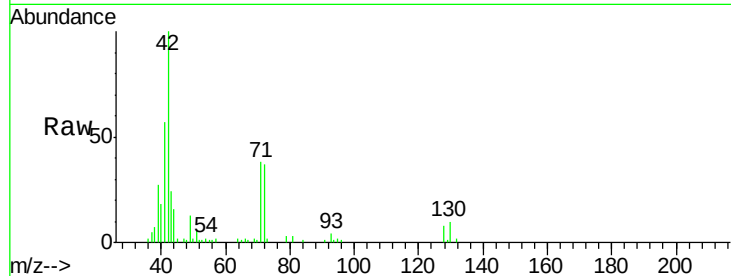
#29
Tetrahydrofuran
Concen: 39.712 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	30.1	45.1
71	37.3	28.8	43.2

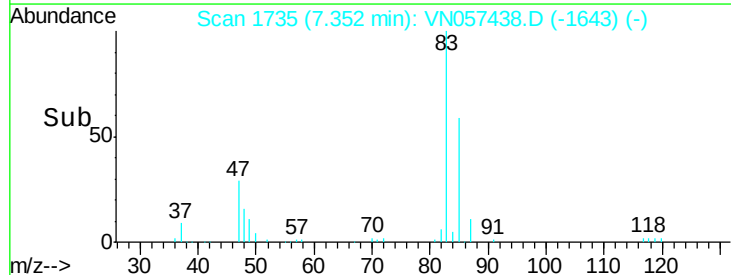
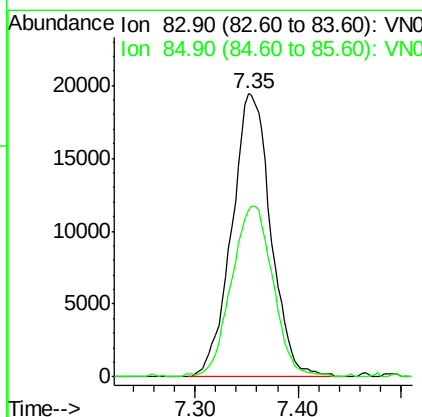
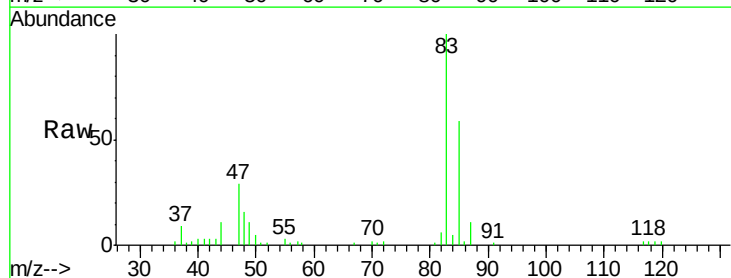
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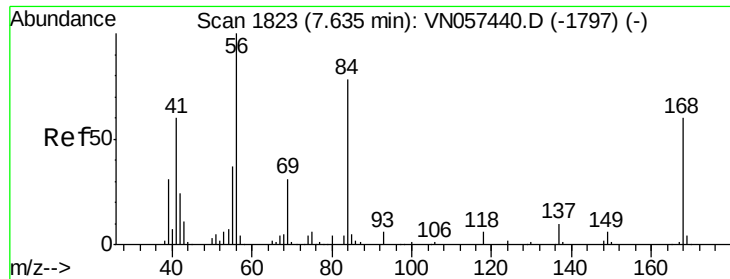
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8/23/2019 2:40:01 PM



#30
Chloroform
Concen: 6.923 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.1	51.9	77.9





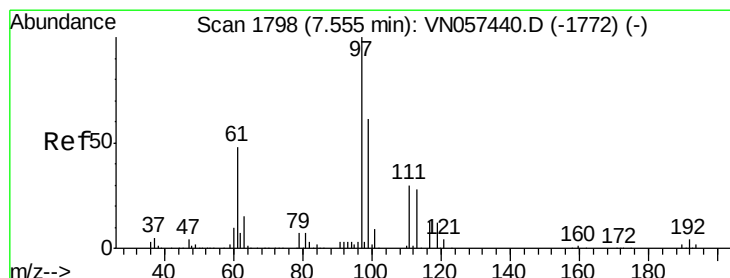
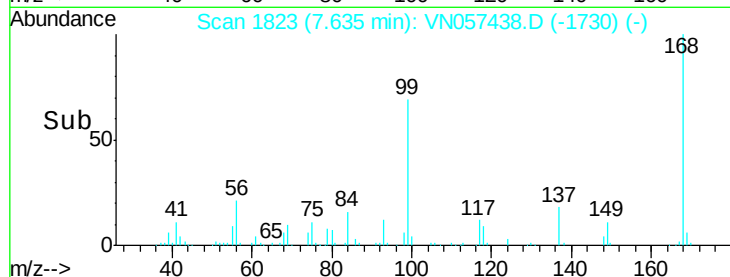
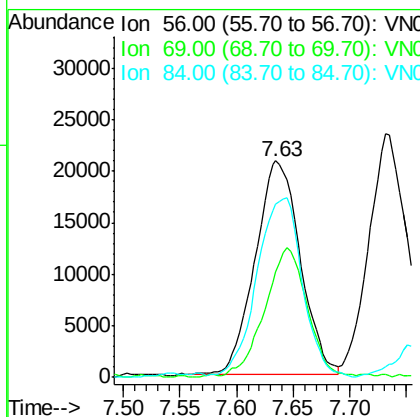
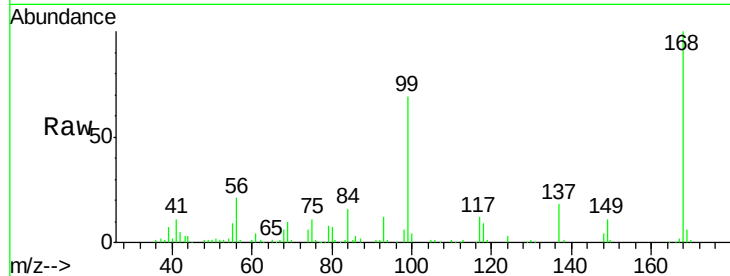
#31
Cyclohexane
Concen: 8.824 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	49.3	25.0	37.6#
84	79.6	62.5	93.7

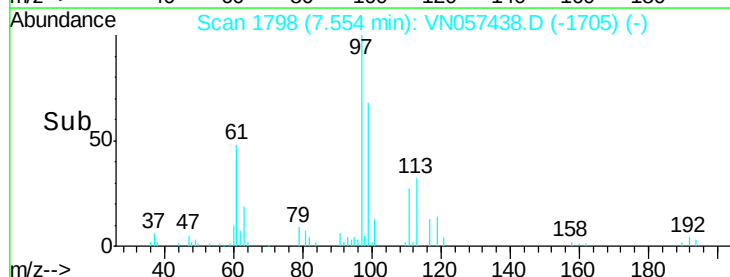
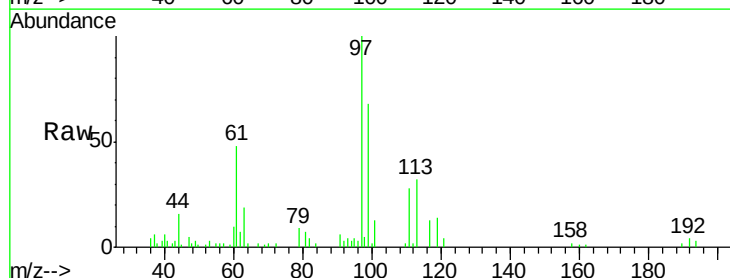
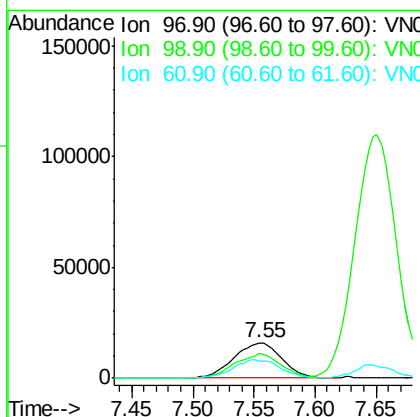
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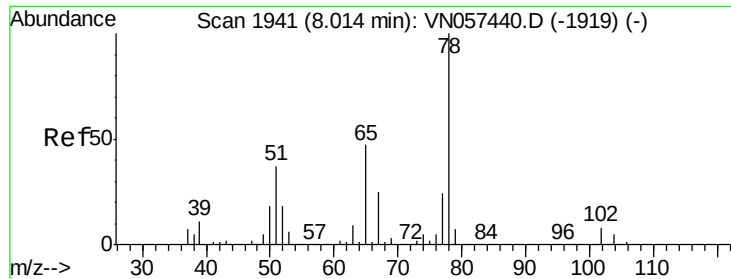
MMDadoda
8/23/2019 2:40:01 PM



#32
1,1,1-Trichloroethane
Concen: 6.948 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.5	51.0	76.6
61	51.2	39.8	59.6





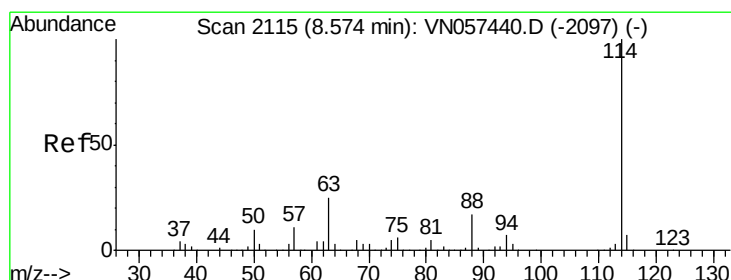
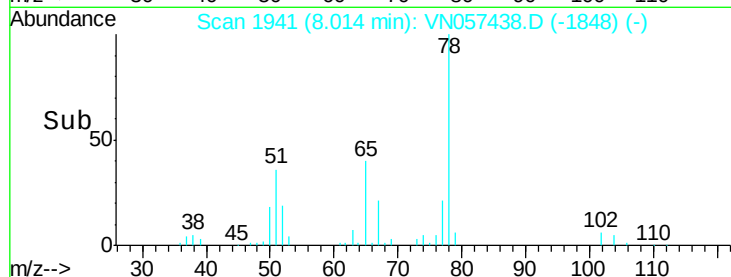
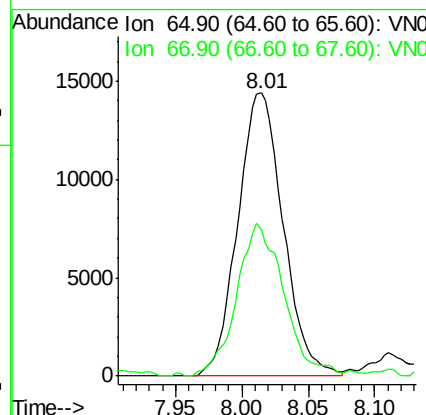
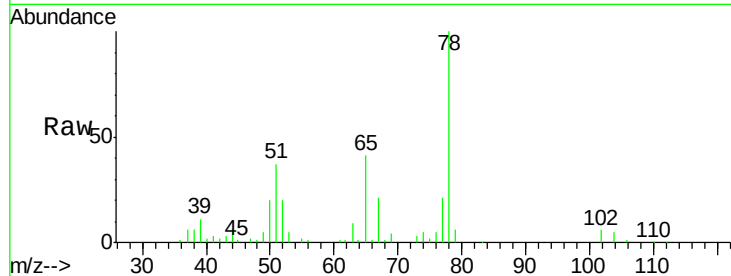
#33
 1,2-Dichloroethane-d4
 Concen: 7.138 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.9	0.0	103.8

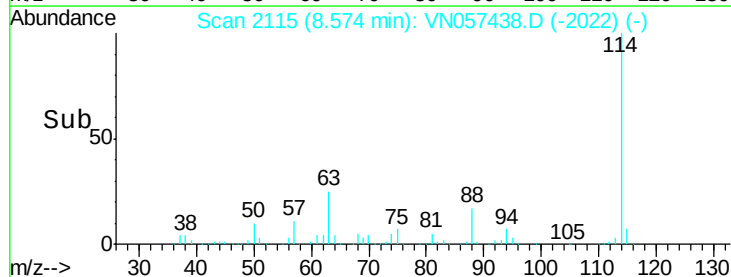
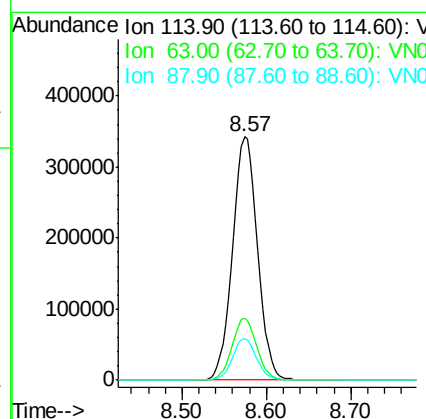
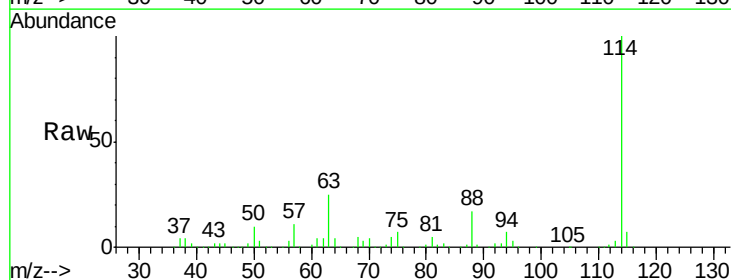
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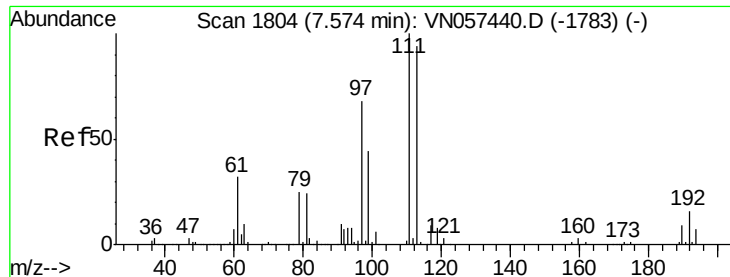
MMDadoda
 8/23/2019 2:40:01 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.3	0.0	50.2
88	17.2	0.0	34.6





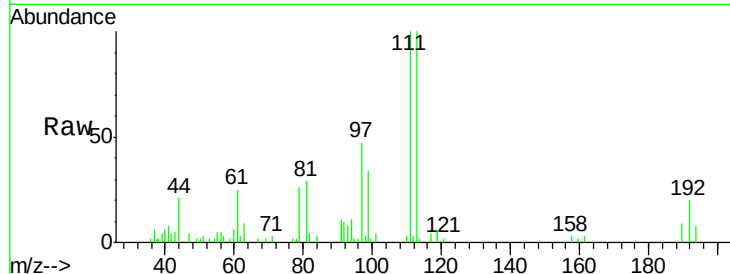
#35
 Dibromofluoromethane
 Concen: 5.496 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	25614		
111	104.0	83.8	125.6	
192	16.0	13.5	20.3	

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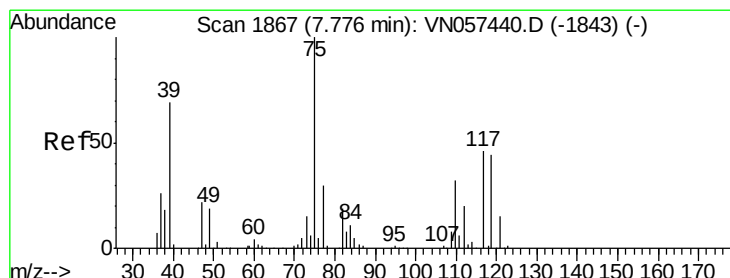
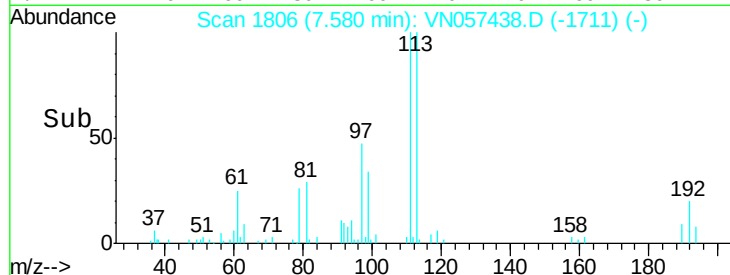
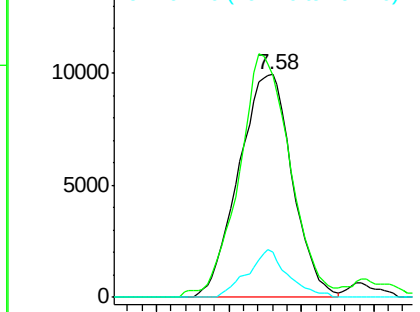


Abundance

Ion 112.80 (112.50 to 113.50): V

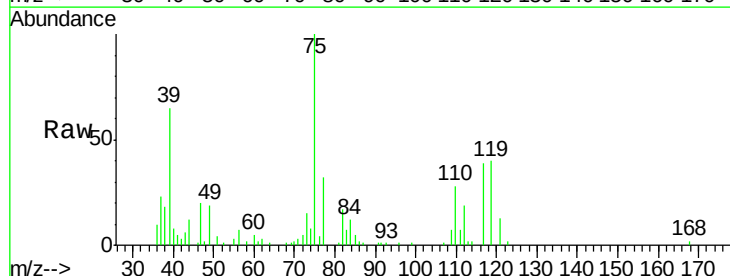
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 5.940 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	37690		
110	31.5	16.1	48.3	
77	31.3	24.8	37.2	

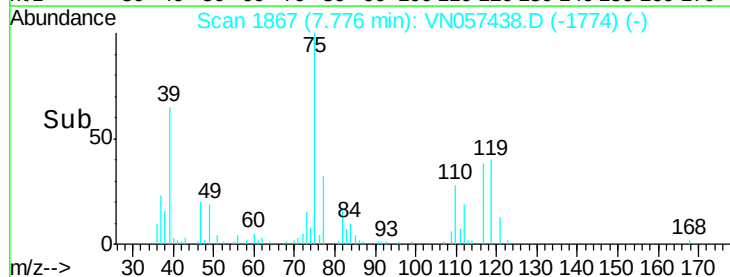
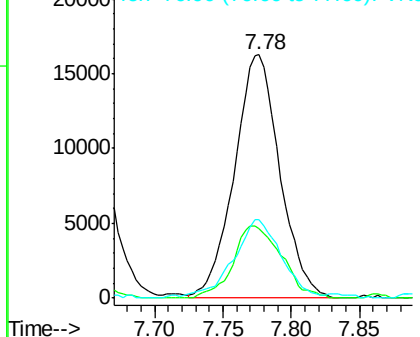


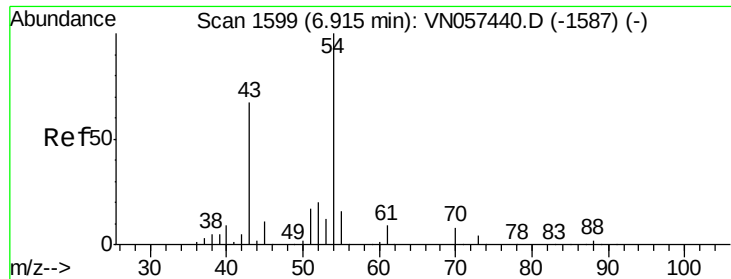
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





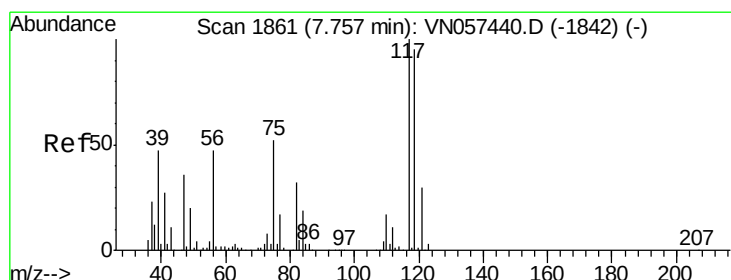
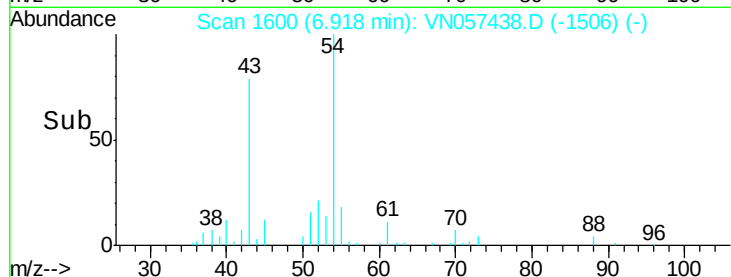
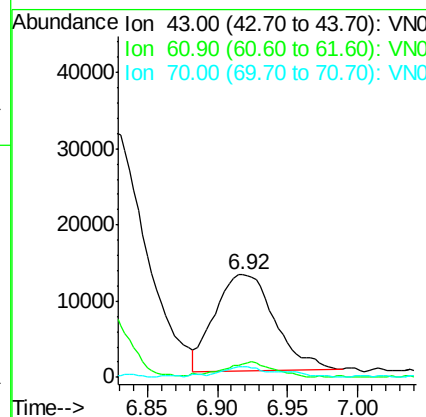
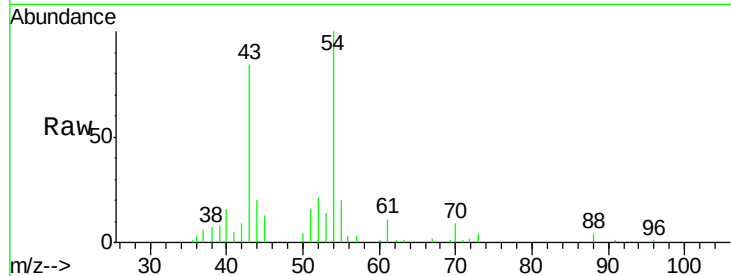
#37
Ethyl Acetate
Concen: 7.051 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	9.9	14.9
70	5.2	7.0	10.6

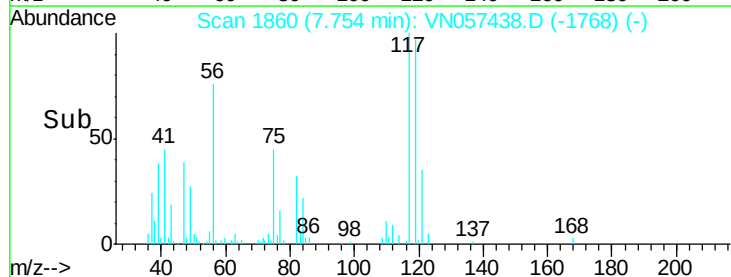
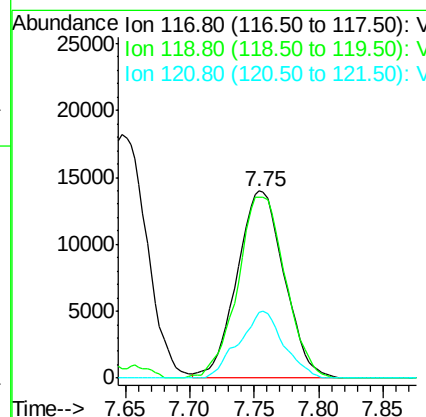
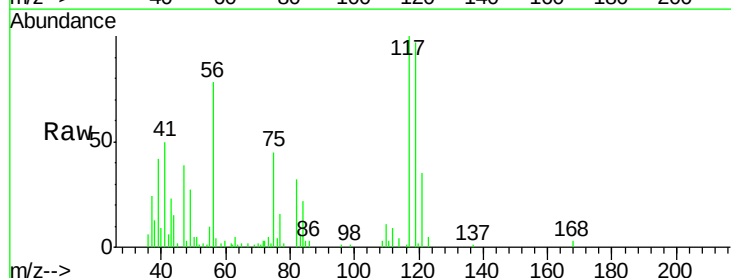
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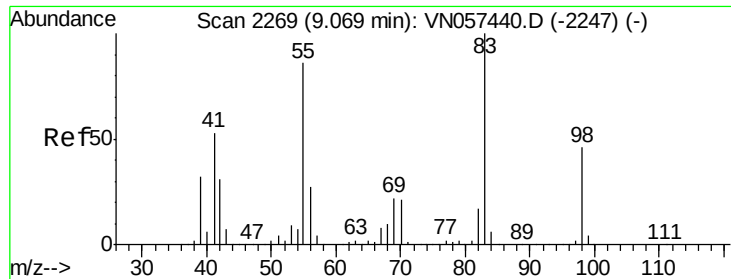
MMDadoda
8/23/2019 2:40:01 PM



#38
Carbon Tetrachloride
Concen: 5.476 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.2	114.4
121	35.0	23.8	35.6





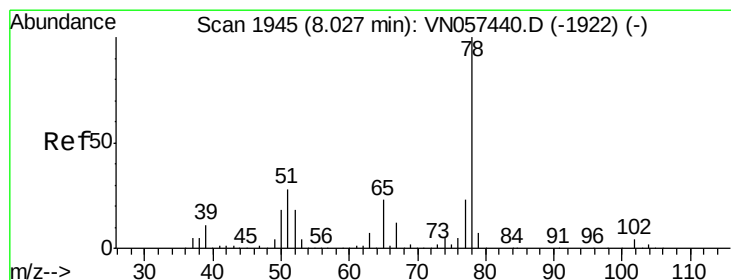
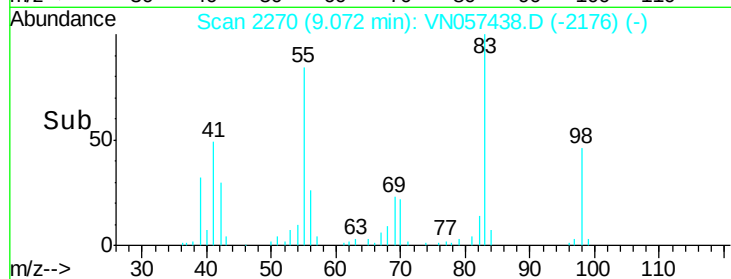
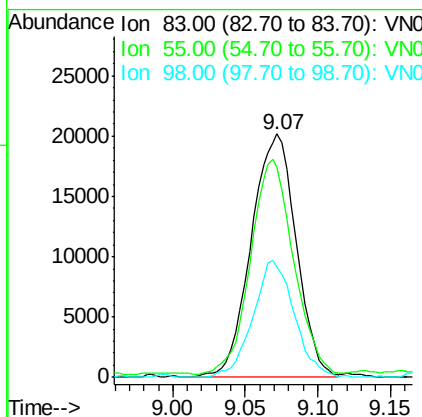
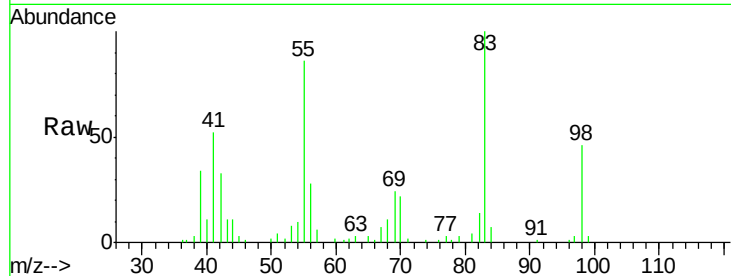
#39
Methylvlcyclohexane
Concen: 5.845 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	83	Resp	43523
Ion Ratio	100	Lower	Upper
83	100		
55	84.6	68.6	102.8
98	45.6	36.6	54.8

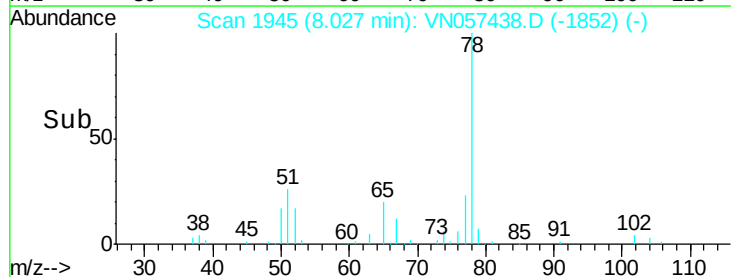
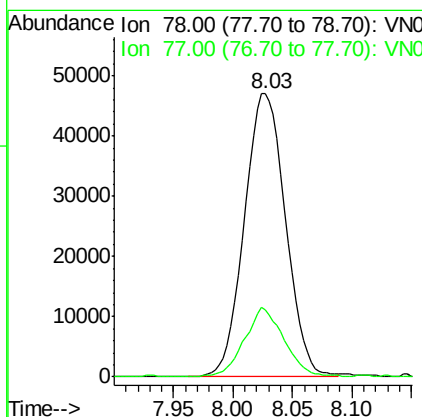
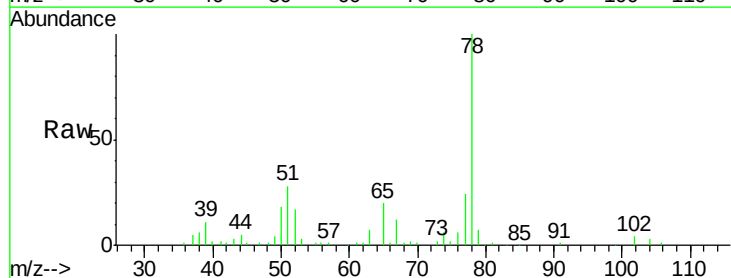
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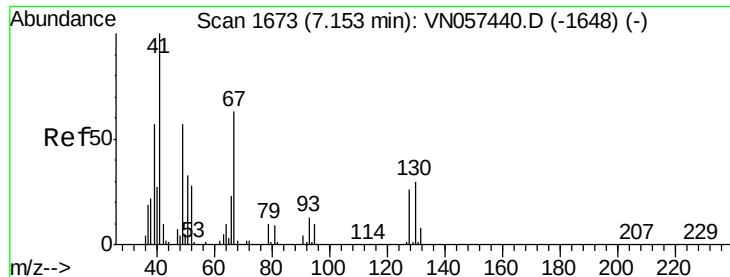
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#40
Benzene
Concen: 5.853 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	78	Resp	112942
Ion Ratio	100	Lower	Upper
78	100		
77	23.8	18.5	27.7





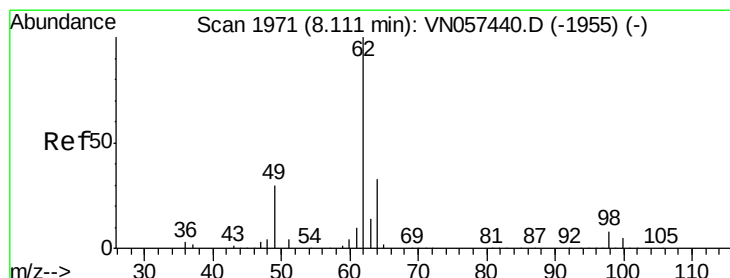
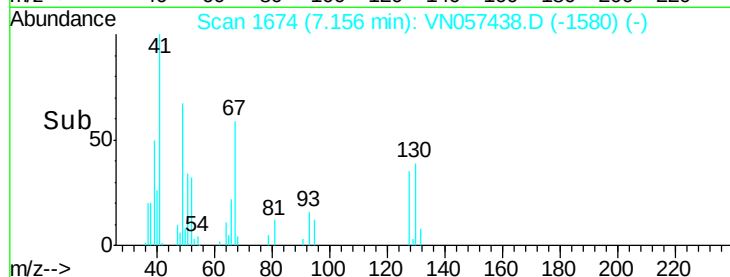
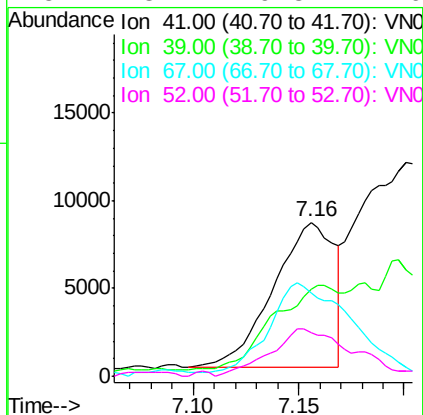
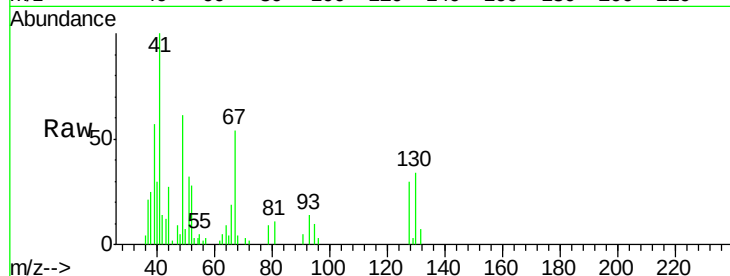
#41
Methacrylonitrile
Concen: 6.860 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	65.2	53.6	80.4
67	81.3	65.4	98.2
52	43.4	29.8	44.6

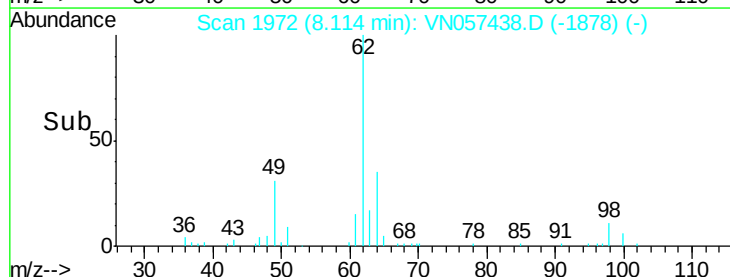
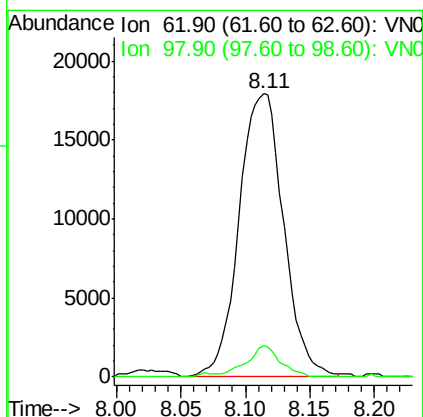
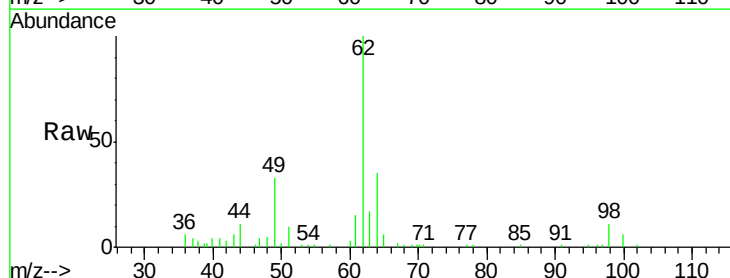
Manual Integrations
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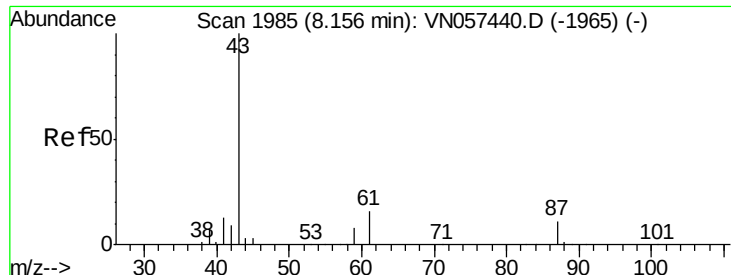
MMDadoda
8/23/2019 2:40:01 PM



#42
1,2-Dichloroethane
Concen: 6.586 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	15.4





#43

Isopropyl Acetate

Concen: 5.881 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

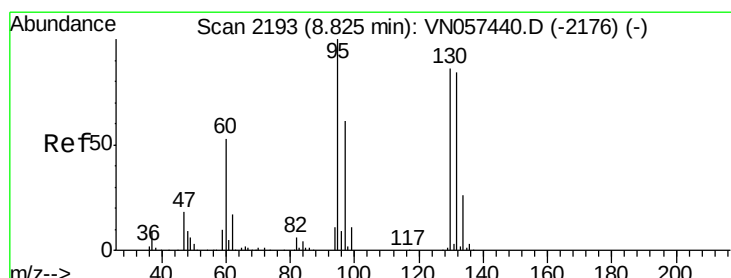
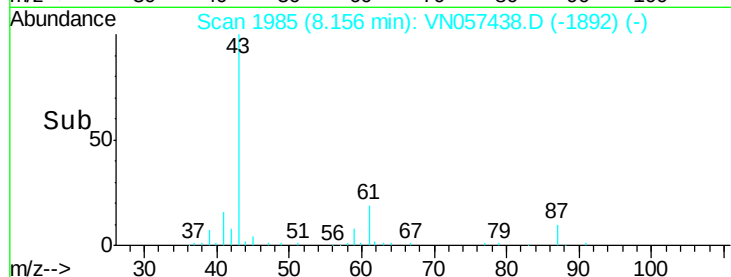
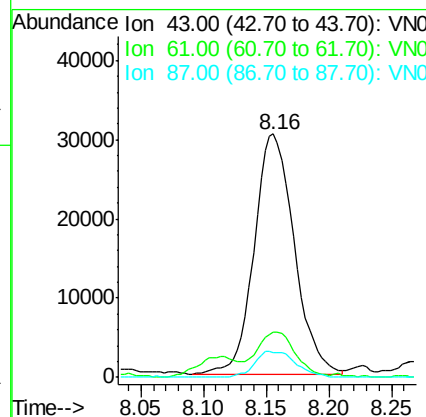
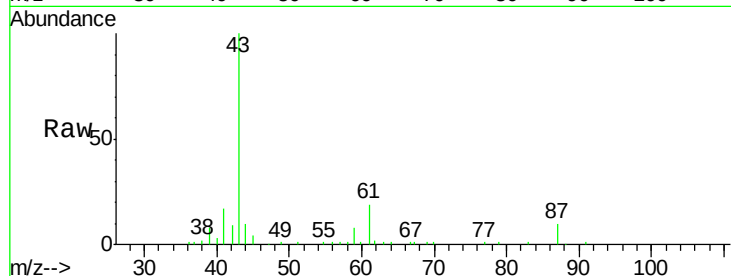
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	67509
Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.5	21.7
87	11.1	8.6	12.8

Manual Integrations
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MMDadoda
8/23/2019 2:40:01 PM



#44

Trichloroethene

Concen: 4.747 ug/l

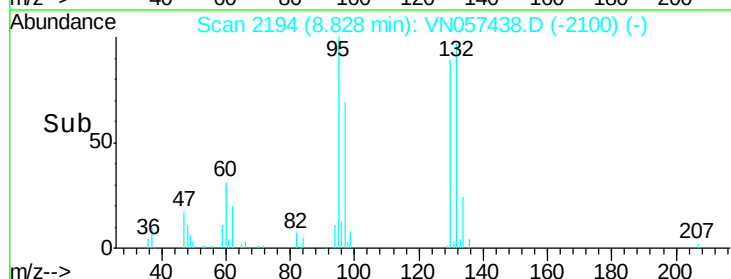
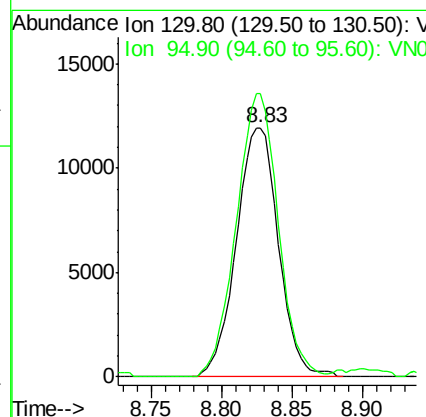
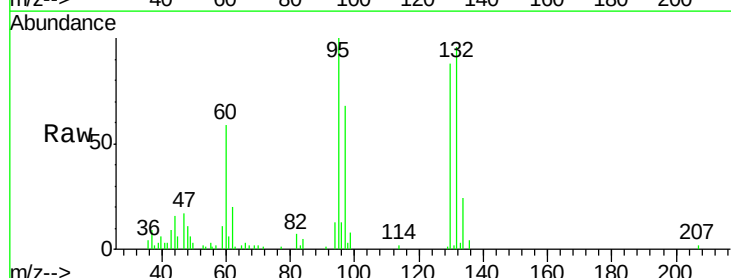
RT: 8.83 min Scan# 2194

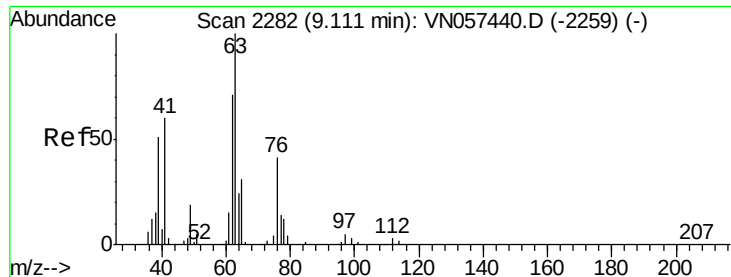
Delta R.T. 0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	130	Resp:	24991
Ion	Ratio	Lower	Upper
130	100		
95	113.5	0.0	231.6





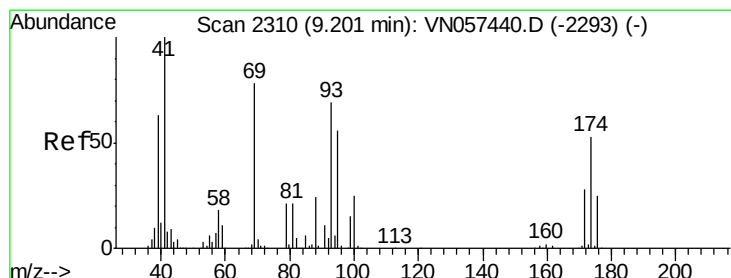
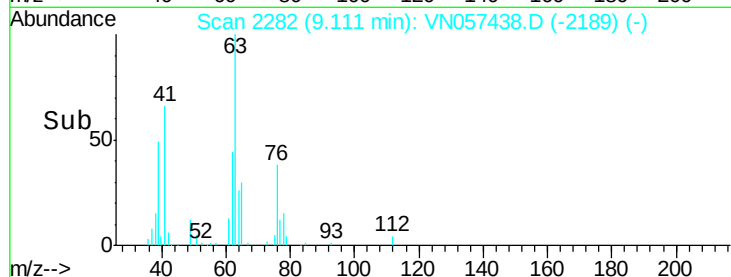
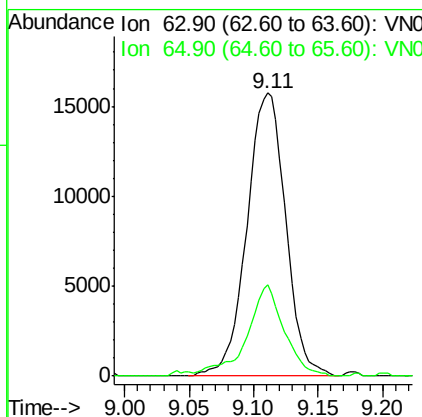
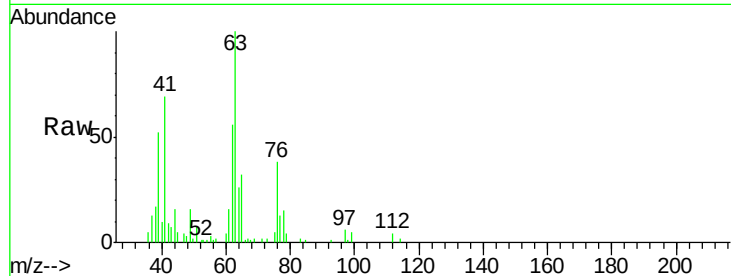
#45
 1,2-Dichloropropane
 Concen: 6.549 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 33009
 Ion Ratio Lower Upper
 63 100
 65 32.1 24.7 37.1

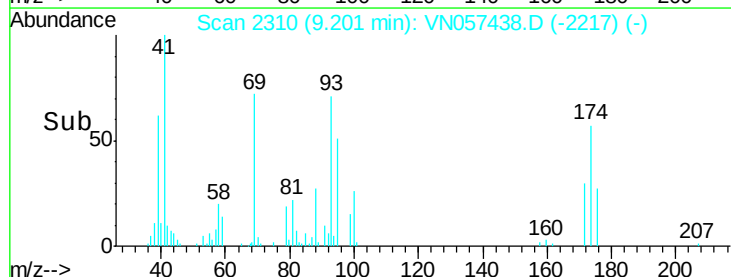
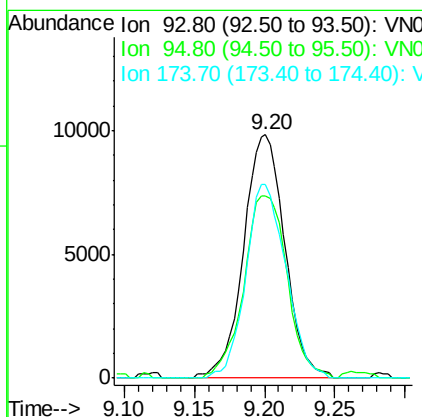
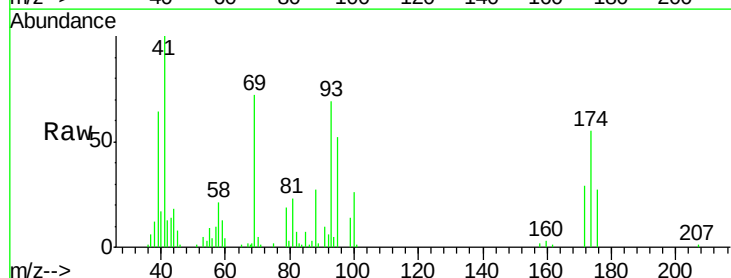
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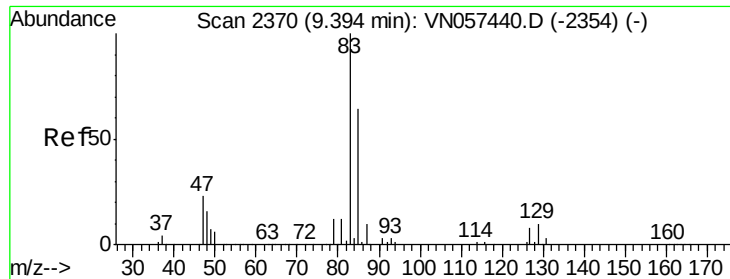
MMDadoda
 8/23/2019 2:40:01 PM



#46
 Dibromomethane
 Concen: 6.039 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion: 93 Resp: 20099
 Ion Ratio Lower Upper
 93 100
 95 78.9 64.7 97.1
 174 77.8 62.3 93.5





#47

Bromodichloromethane

Concen: 6.252 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

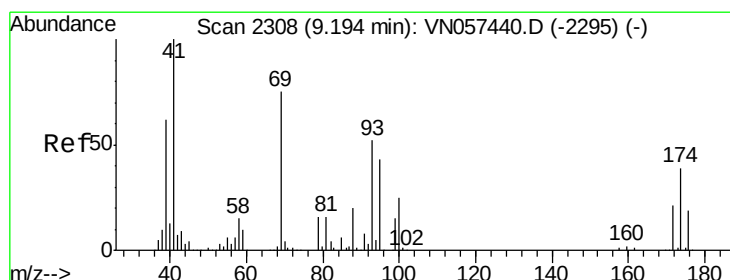
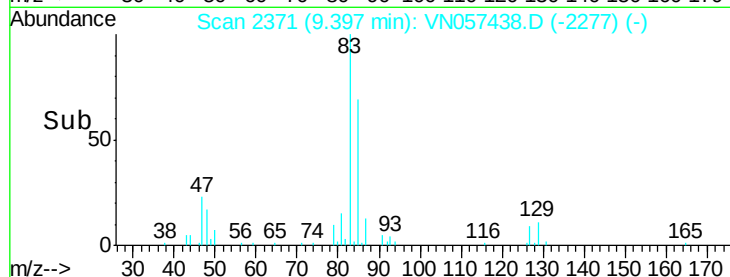
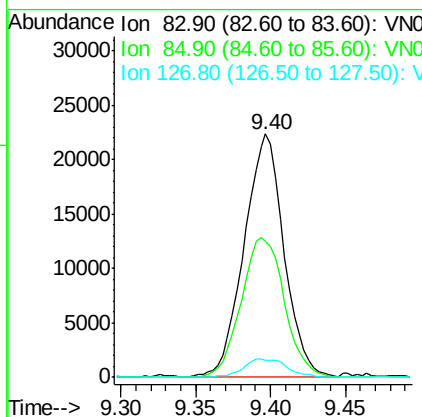
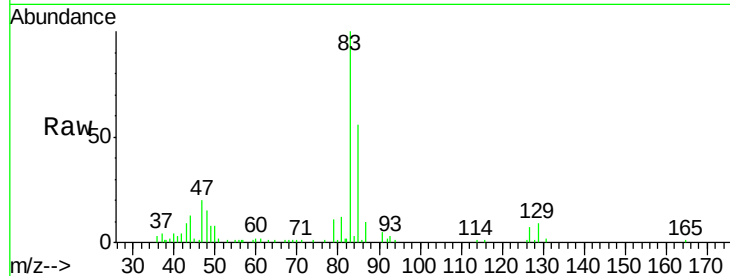
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	41554
Ion	Ratio	Lower	Upper
83	100		
85	55.7	51.2	76.8
127	7.2	6.6	10.0

Manual Integrations
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8/23/2019 2:40:01 PM



#48

Methyl methacrylate

Concen: 7.066 ug/l

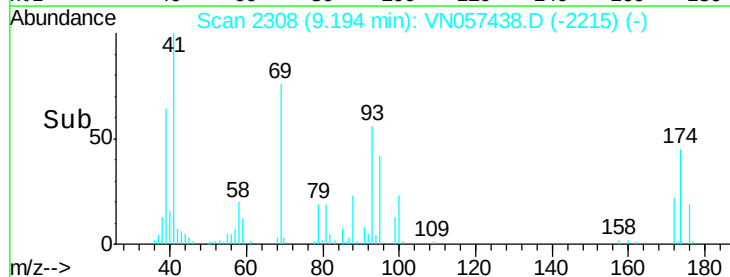
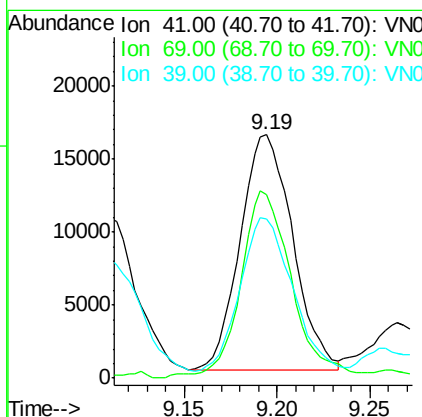
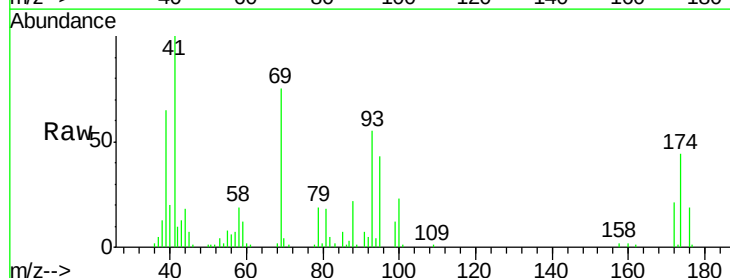
RT: 9.19 min Scan# 2308

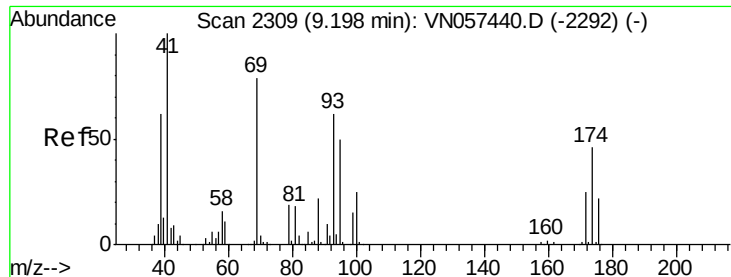
Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	41	Resp:	31606
Ion	Ratio	Lower	Upper
41	100		
69	77.6	59.3	88.9
39	64.4	50.6	75.8





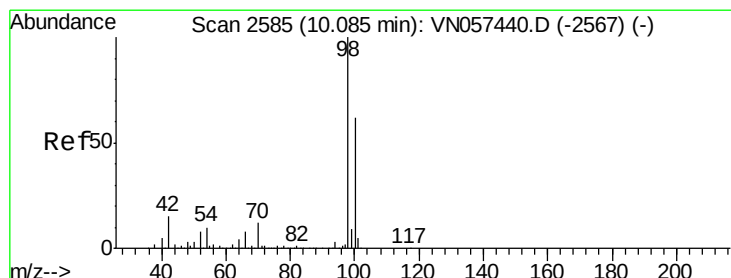
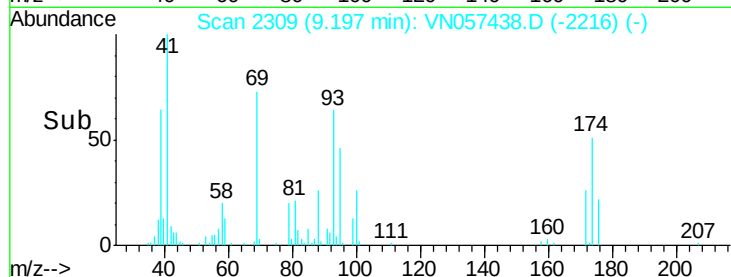
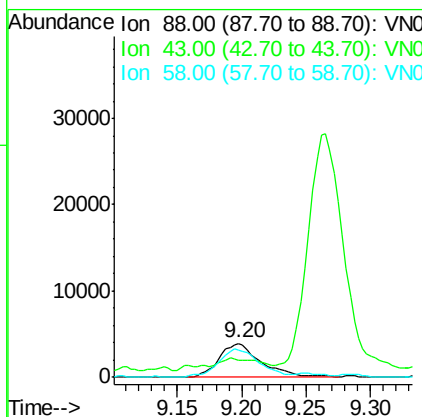
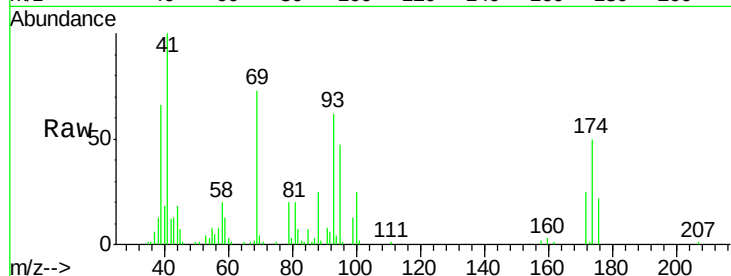
#49
1,4-Dioxane
Concen: 103.783 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	31.0	46.6#
58	82.0	64.5	96.7

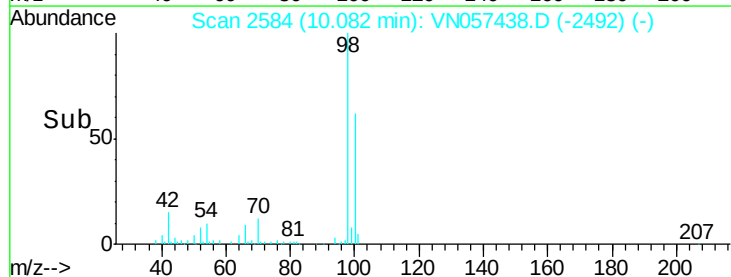
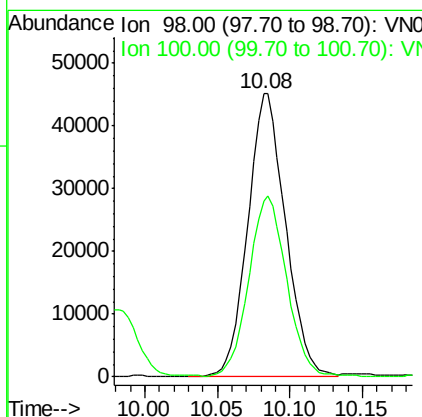
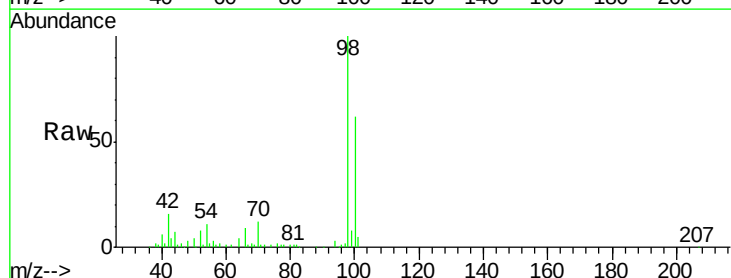
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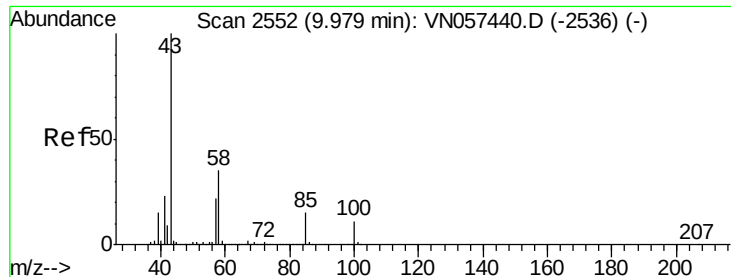
MMDadoda
8/23/2019 2:40:01 PM



#50
Toluene-d8
Concen: 4.763 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	50.4	75.6





#51

4-Methyl-2-Pentanone

Concen: 34.320 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 190142

Ion Ratio Lower Upper

43 100

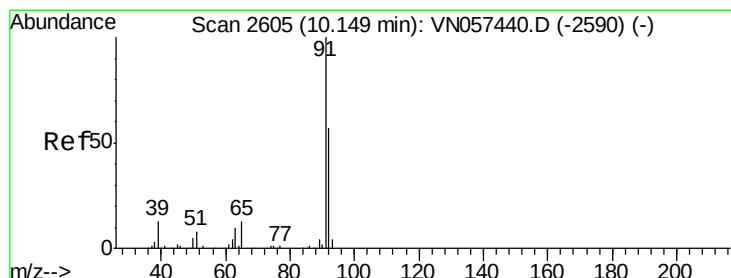
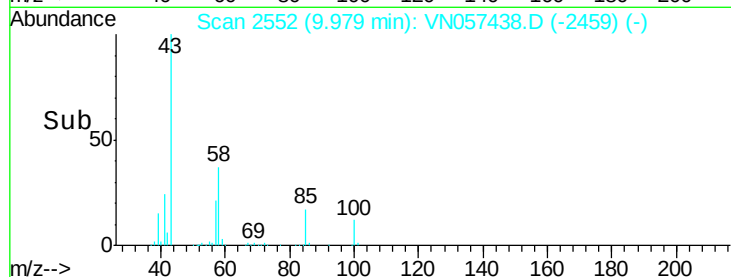
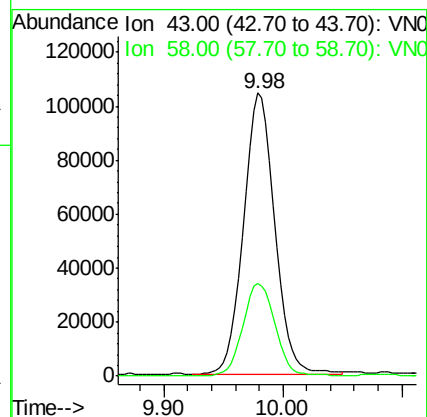
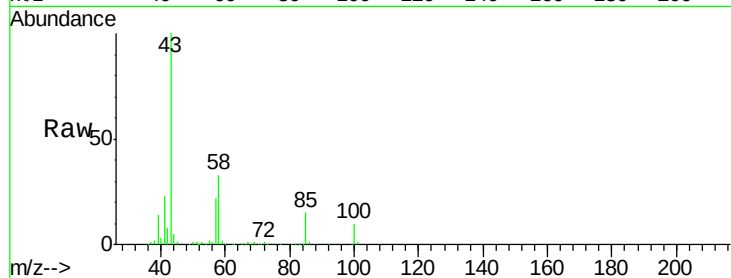
58 34.2 27.9 41.9

Manual Integrations

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#52

Toluene

Concen: 5.260 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN057438.D

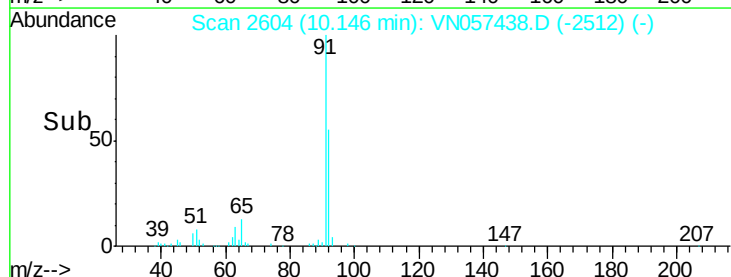
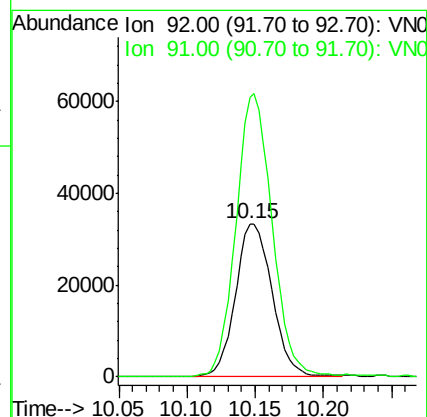
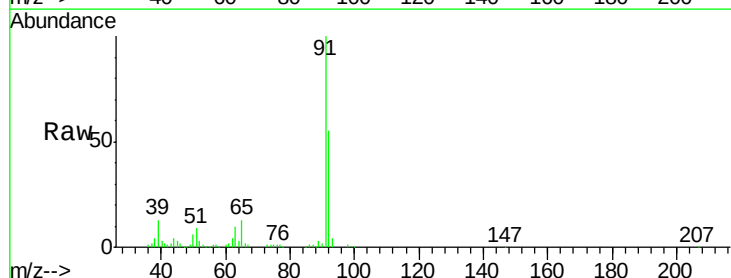
Acq: 22 Aug 2019 17:26

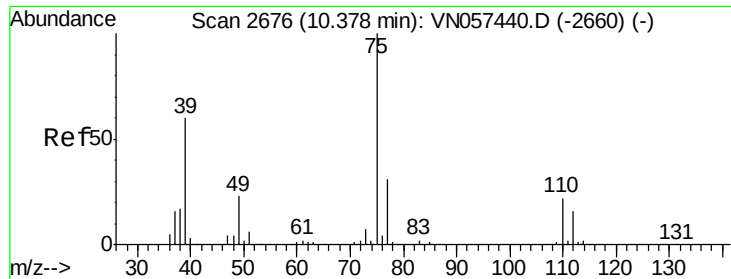
Tgt Ion: 92 Resp: 62473

Ion Ratio Lower Upper

92 100

91 182.2 140.9 211.3





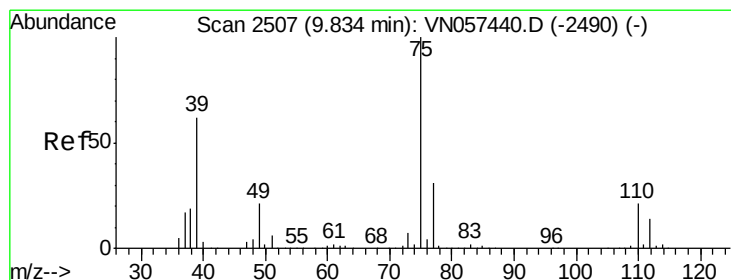
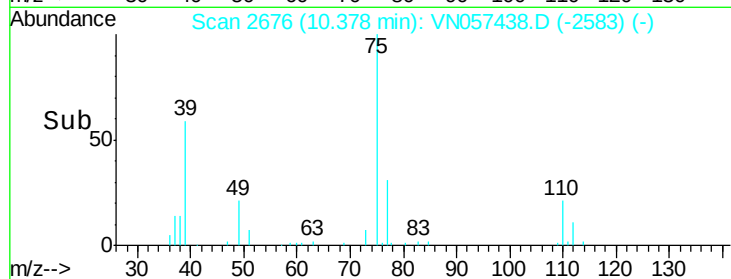
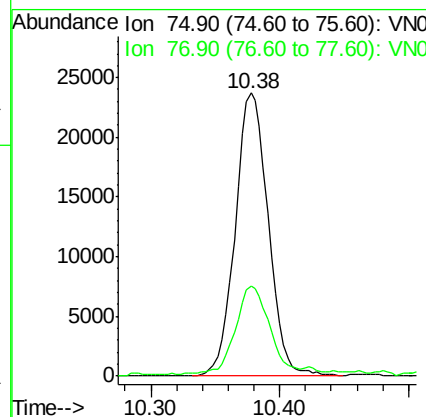
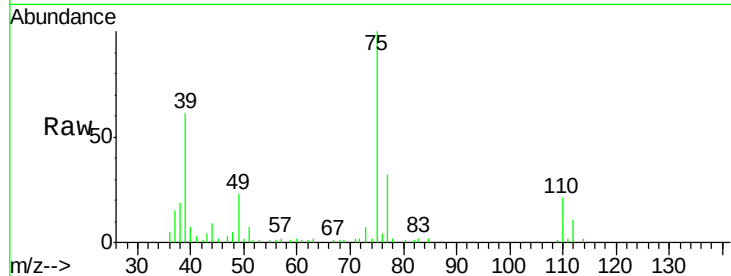
#53
t-1,3-Dichloropropene
Concen: 5.891 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 42162
Ion Ratio Lower Upper
75 100
77 30.6 25.0 37.6

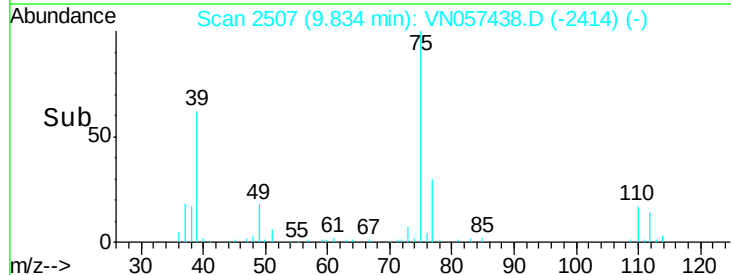
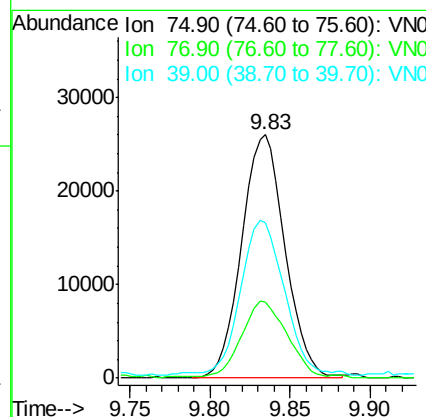
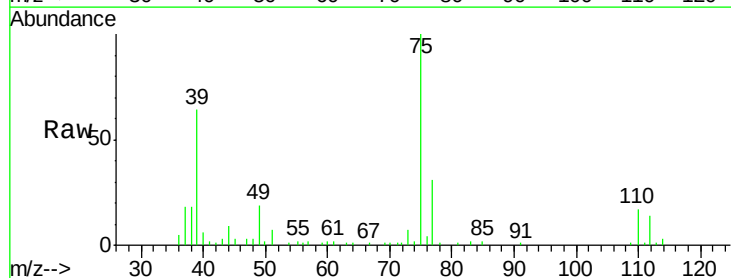
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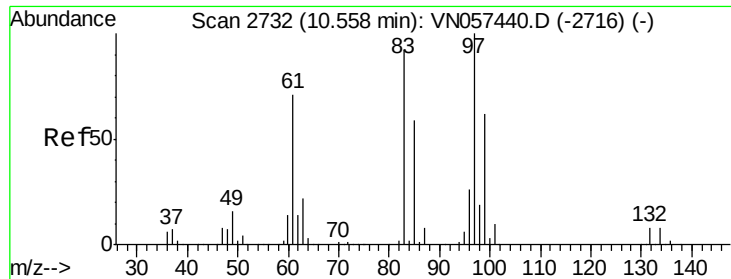
MMDadoda
8/23/2019 2:40:01 PM



#54
cis-1,3-Dichloropropene
Concen: 6.123 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion: 75 Resp: 48203
Ion Ratio Lower Upper
75 100
77 30.6 25.0 37.6
39 61.4 49.2 73.8





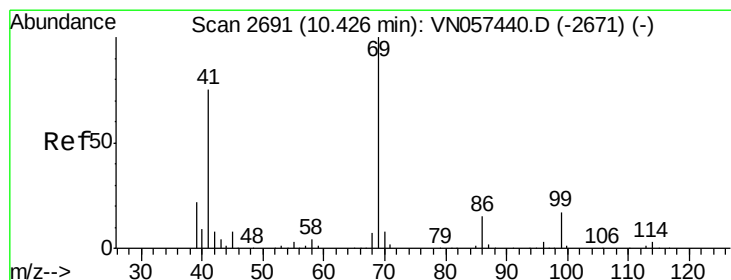
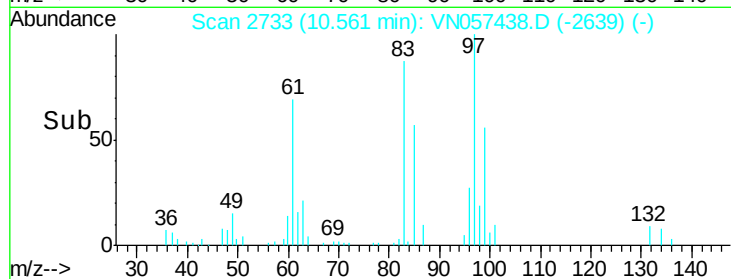
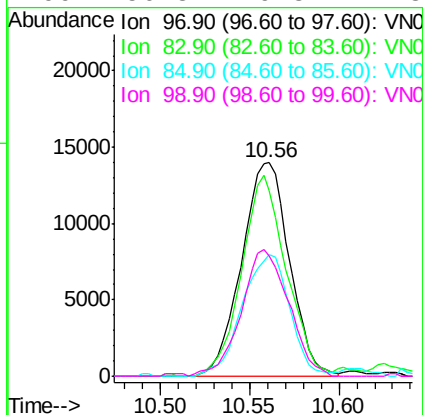
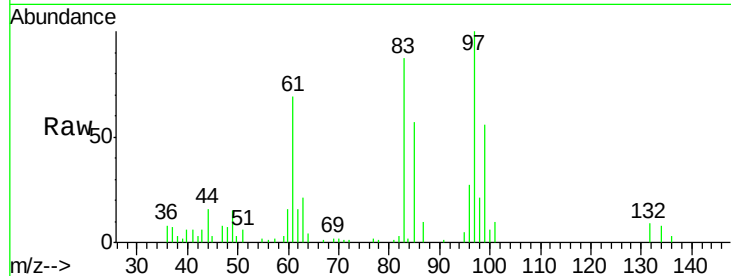
#55
 1,1,2-Trichloroethane
 Concen: 5.600 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	26136
Ion	Ratio	Lower	Upper
97	100		
83	87.2	73.7	110.5
85	56.8	46.8	70.2
99	56.3	49.8	74.8

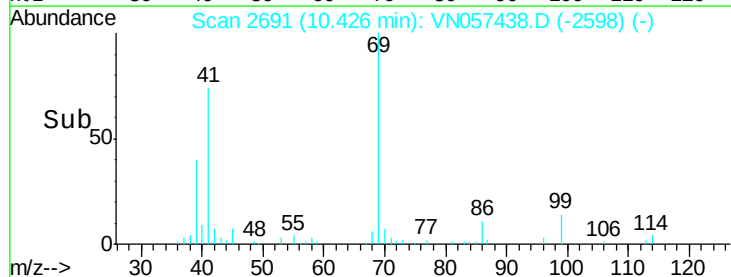
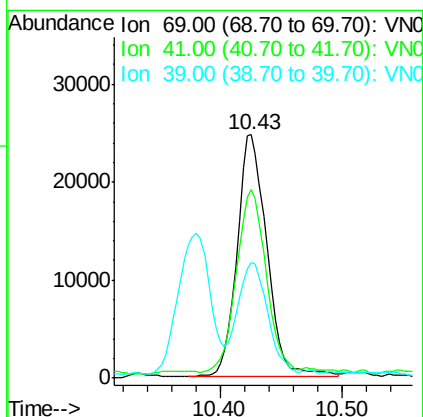
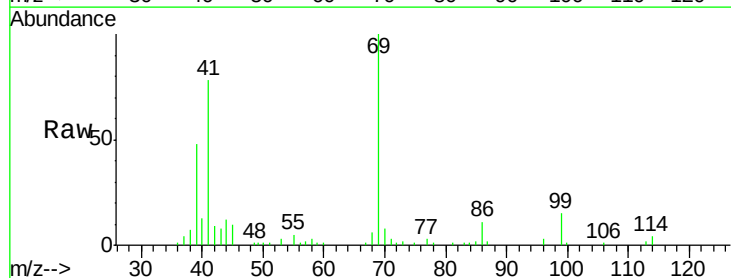
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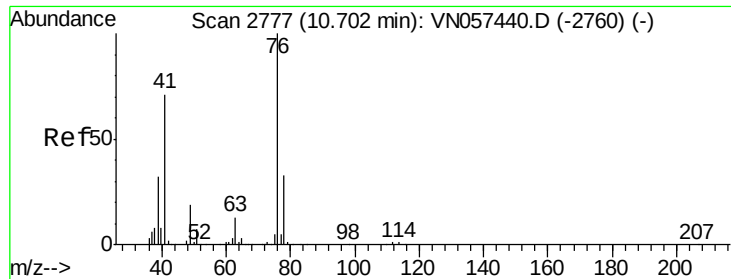
MMDadoda
 8/23/2019 2:40:01 PM



#56
 Ethyl methacrylate
 Concen: 6.000 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion:	69	Resp:	41491
Ion	Ratio	Lower	Upper
69	100		
41	74.9	60.8	91.2
39	45.8	36.5	54.7





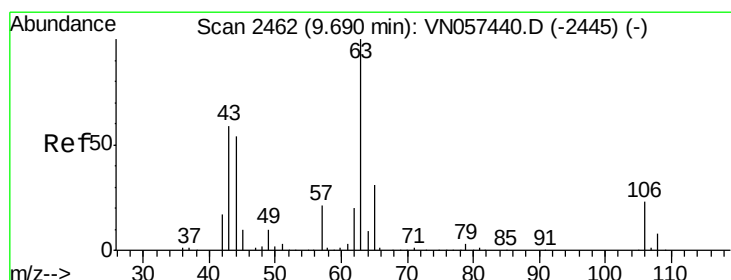
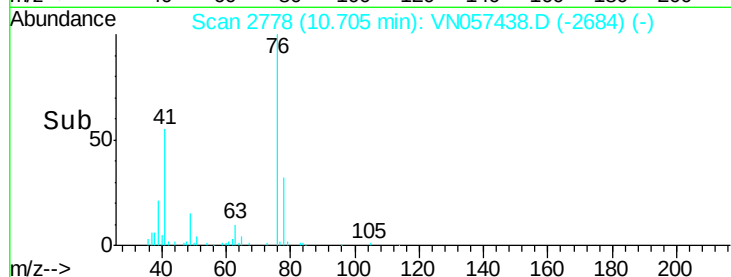
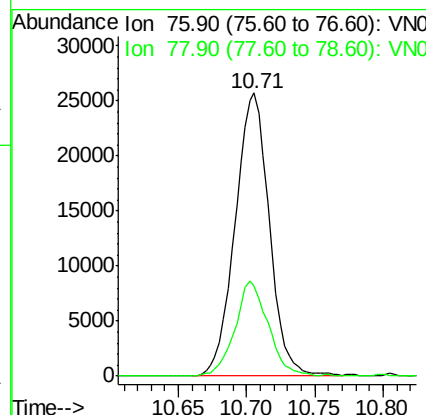
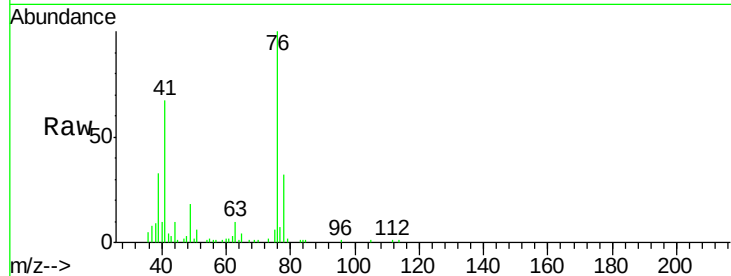
#57
 1,3-Dichloropropane
 Concen: 5.674 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

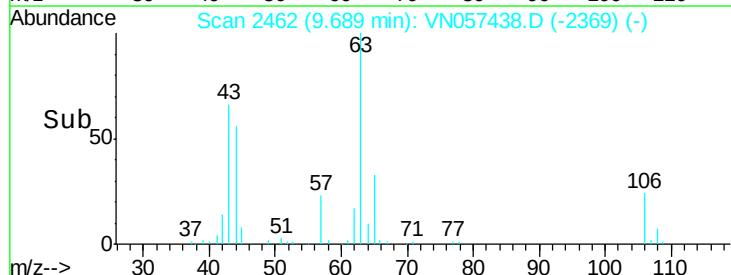
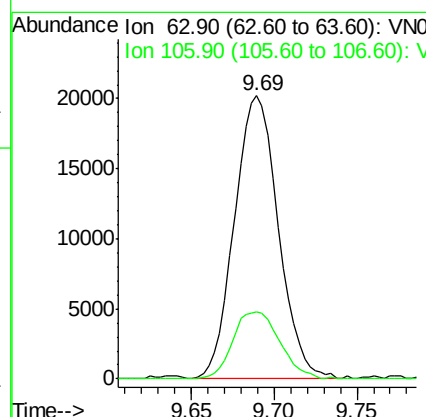
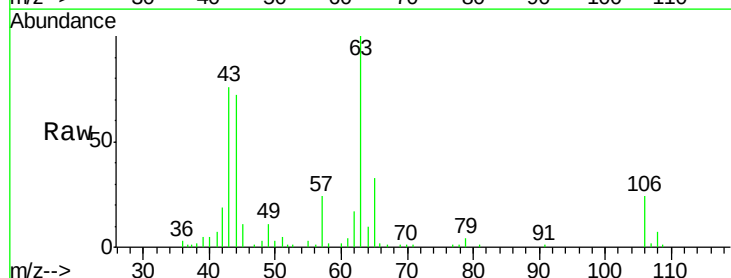
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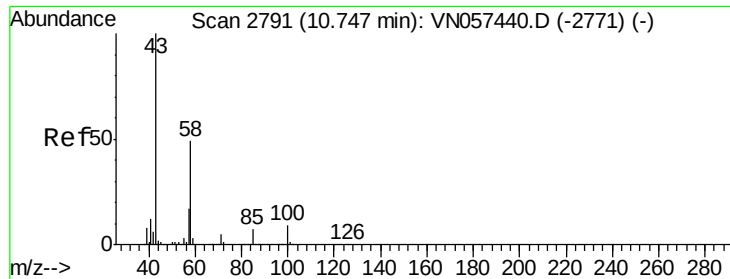
MMDadoda
 8/23/2019 2:40:01 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 20.926 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.4	18.6	27.8





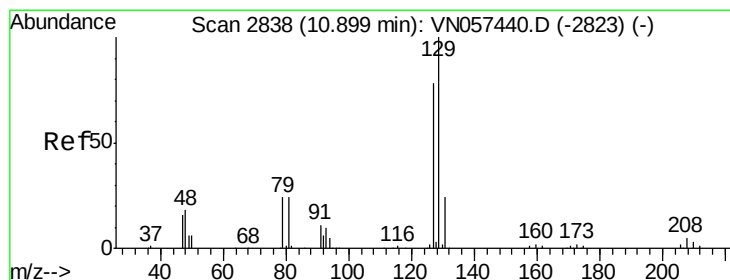
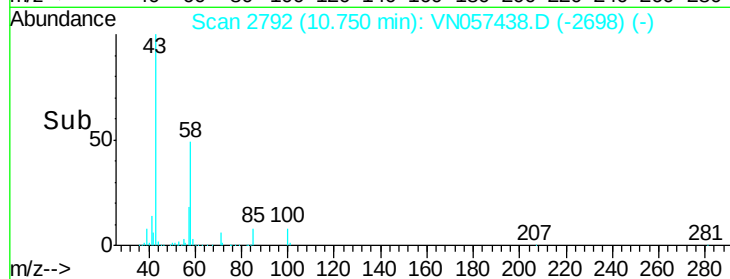
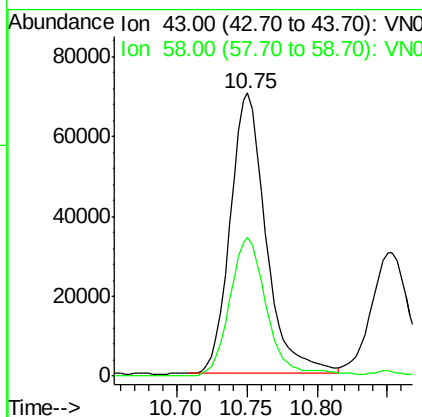
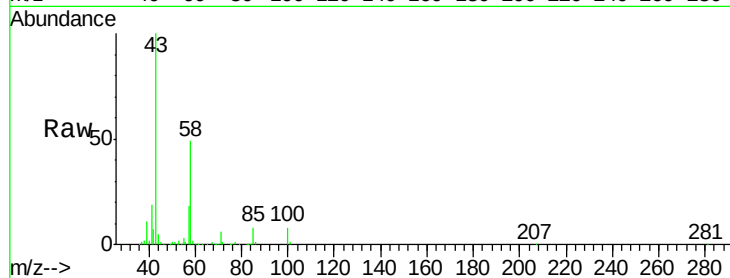
#59
2-Hexanone
Concen: 31.718 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.2	24.6	73.6

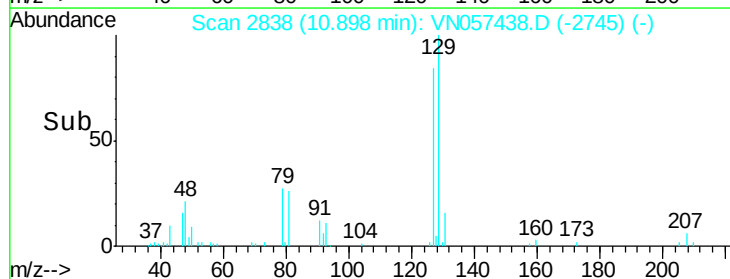
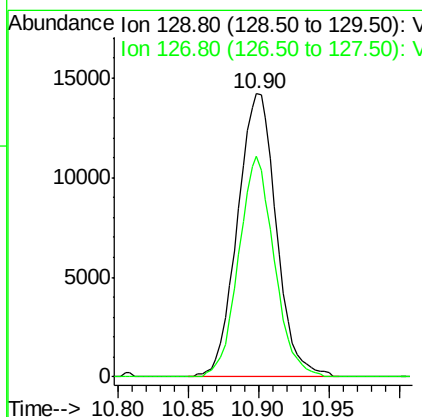
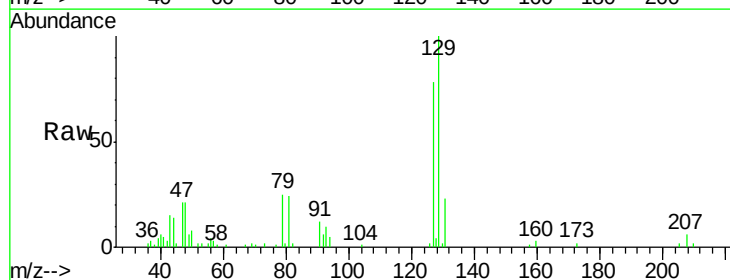
Manual Integrations
APPROVED

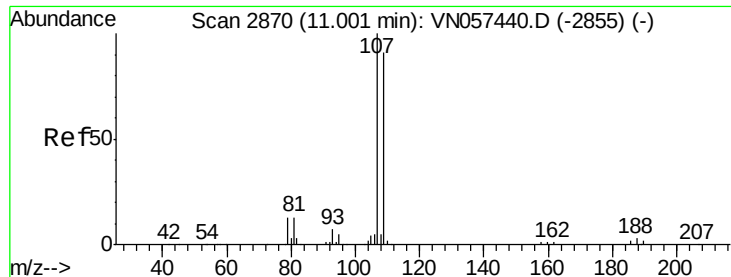
MMDadoda
8/23/2019 2:40:01 PM



#60
Dibromochloromethane
Concen: 5.302 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	71.2	39.0	116.9





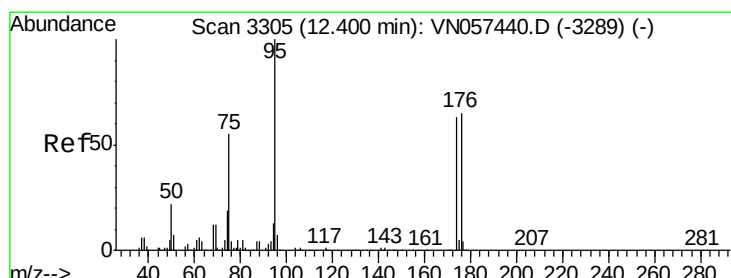
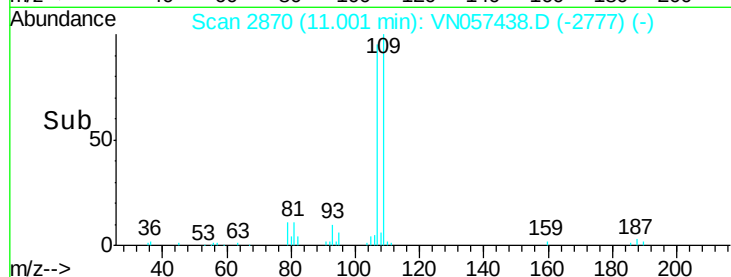
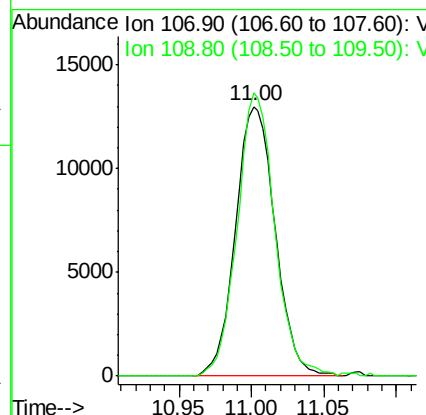
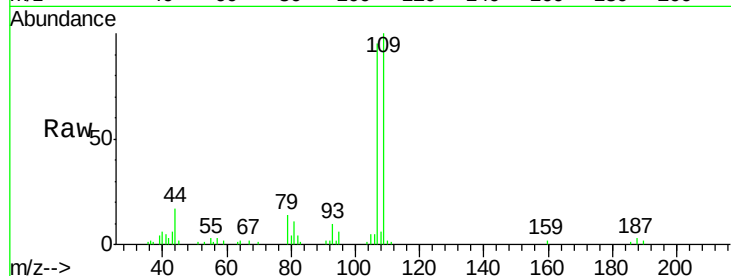
#61
 1,2-Dibromoethane
 Concen: 4.998 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	99.5	73.8	110.8

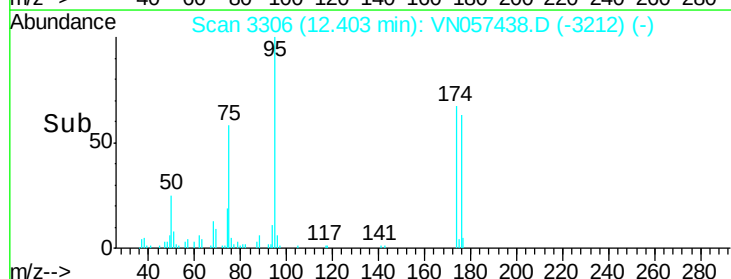
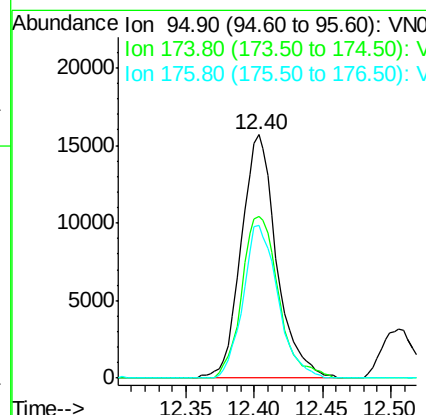
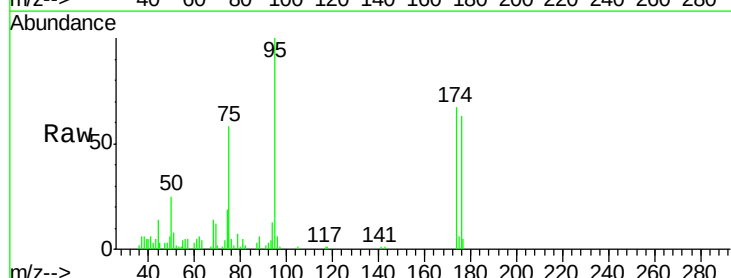
Manual Integrations
 APPROVED

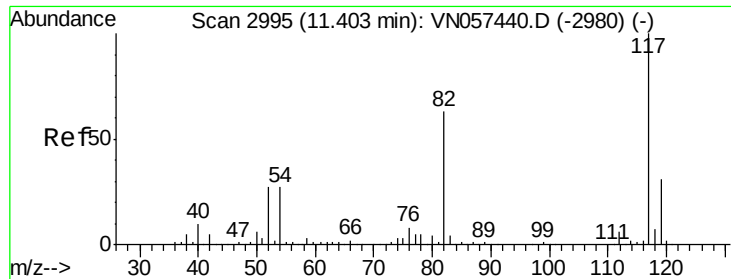
MMDadoda
 8/23/2019 2:40:01 PM



#62
 4-Bromofluorobenzene
 Concen: 4.674 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	133.0
176	61.7	0.0	130.8





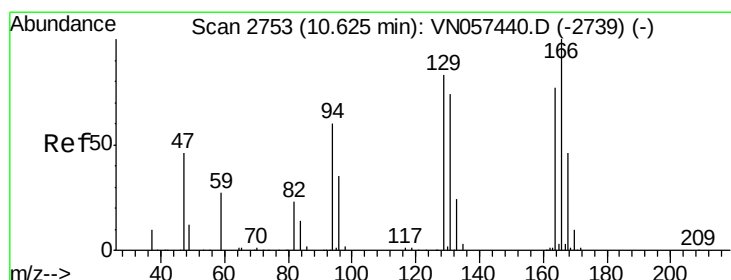
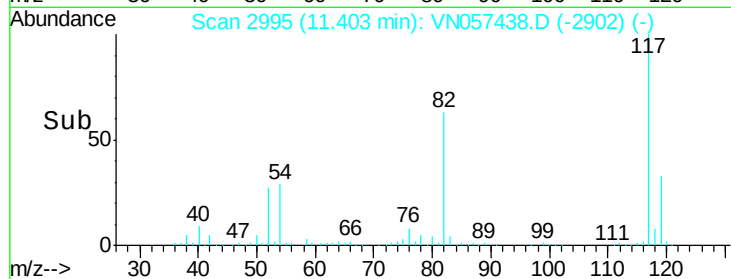
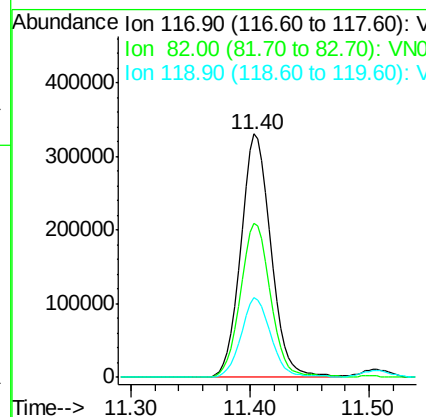
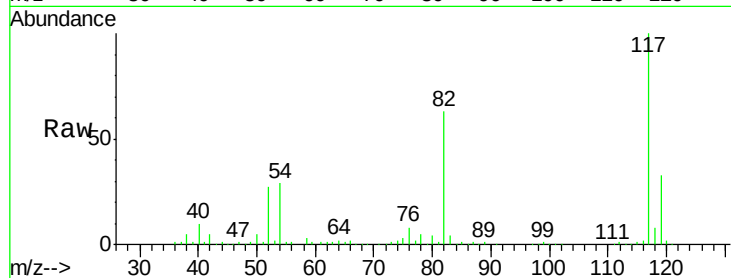
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	579346		
82	63.5	50.6	75.8	
119	32.5	24.6	36.8	

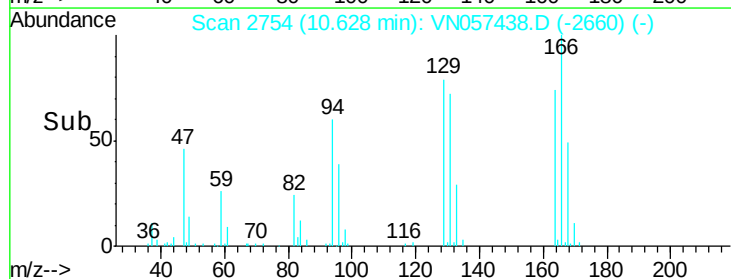
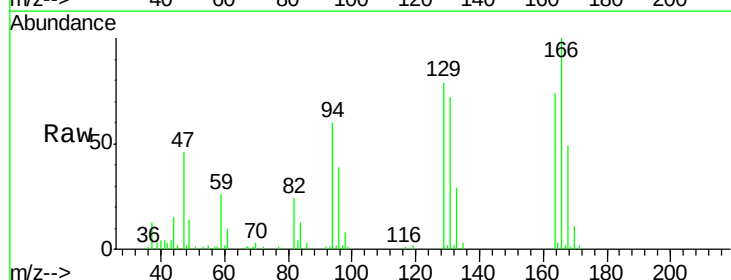
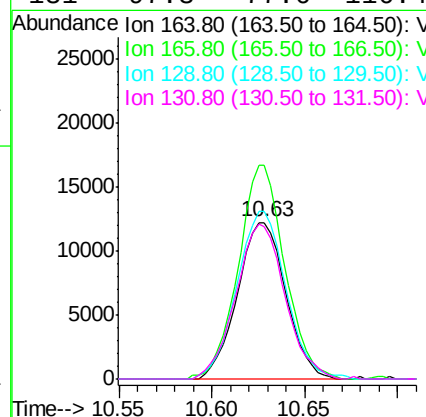
Manual Integrations
APPROVED

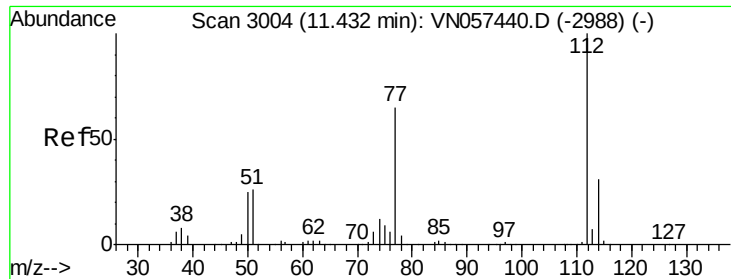
MMDadoda
8/23/2019 2:40:01 PM



#64
Tetrachloroethene
Concen: 4.557 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	22118		
166	136.0	104.4	156.6	
129	107.3	86.6	130.0	
131	97.3	77.6	116.4	





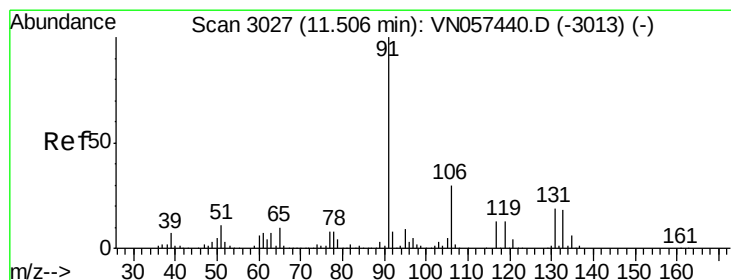
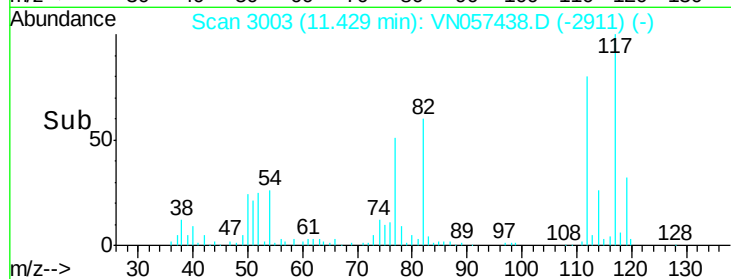
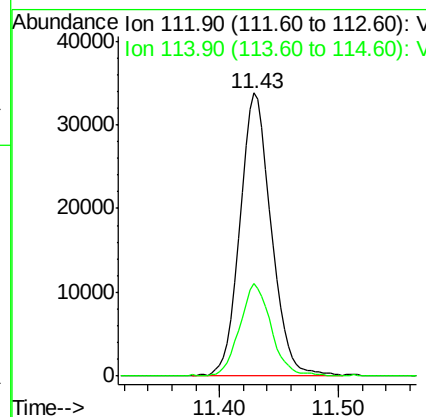
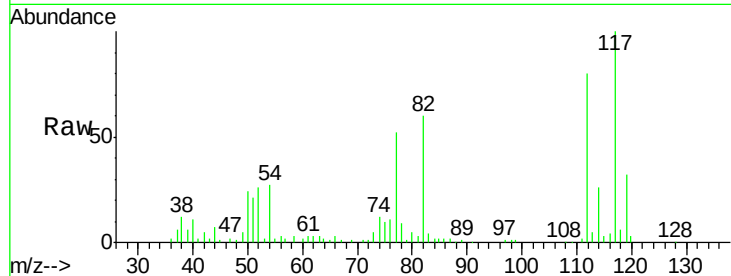
#65
Chlorobenzene
Concen: 5.257 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 61625
Ion Ratio Lower Upper
112 100
114 32.6 24.8 37.2

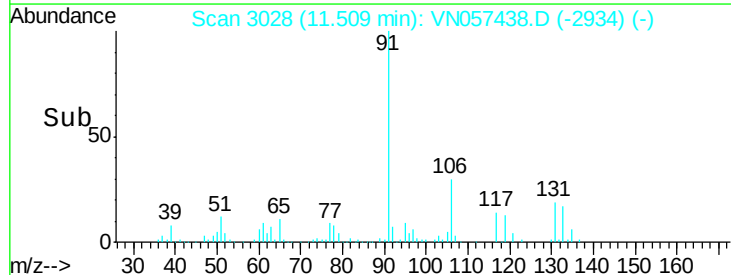
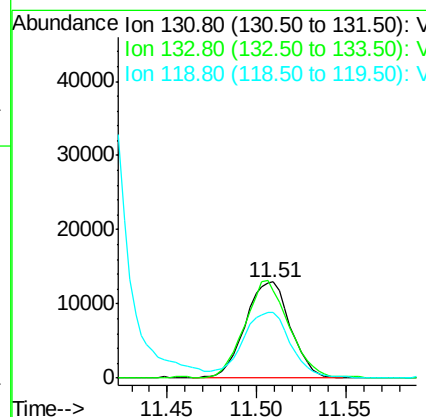
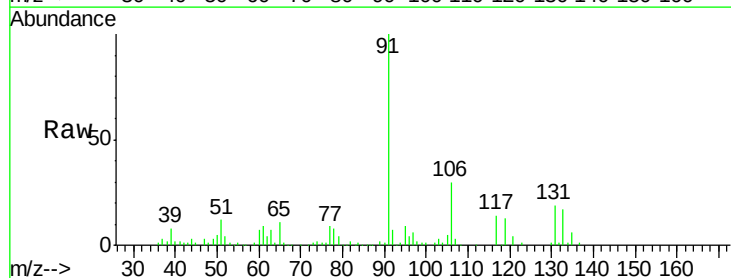
Manual Integrations
APPROVED

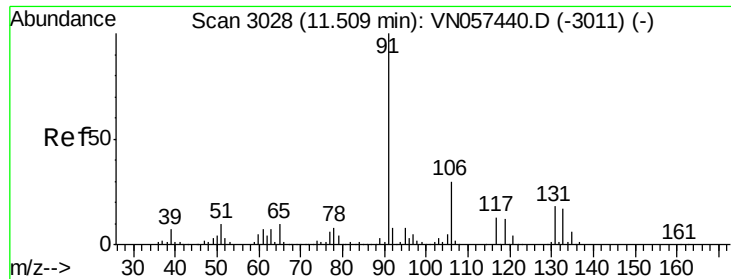
MMDadoda
8/23/2019 2:40:01 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.107 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion:131 Resp: 22889
Ion Ratio Lower Upper
131 100
133 99.7 47.6 142.8
119 73.4 34.4 103.2





#67

Ethyl Benzene

Concen: 5.579 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 116823

Ion Ratio Lower Upper

91 100

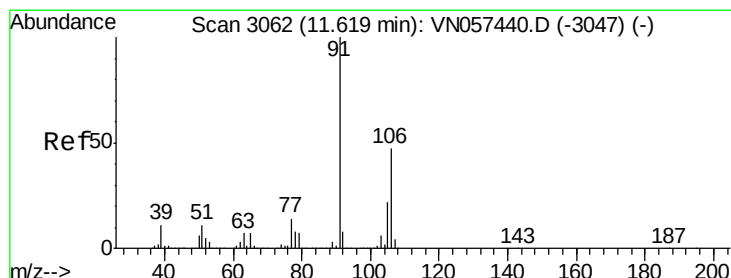
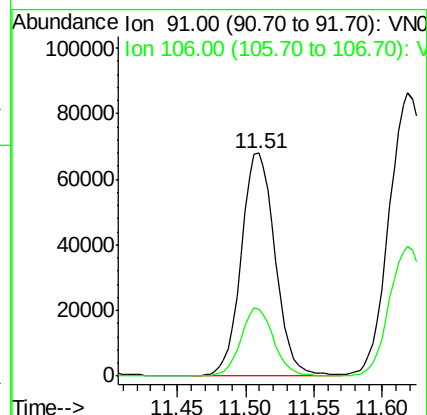
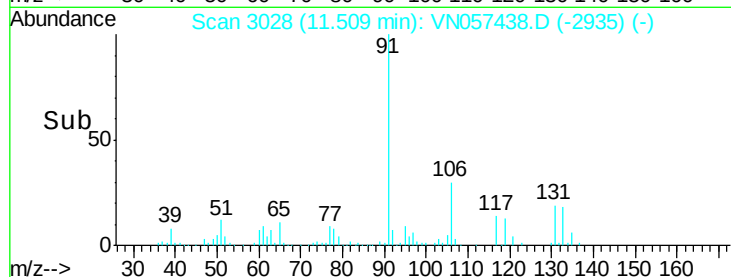
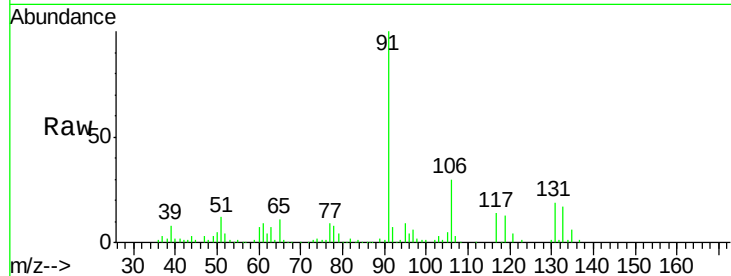
106 30.2 24.1 36.1

Manual Integrations

APPROVED

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8/23/2019 2:40:01 PM



#68

m/p-Xylenes

Concen: 10.231 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN057438.D

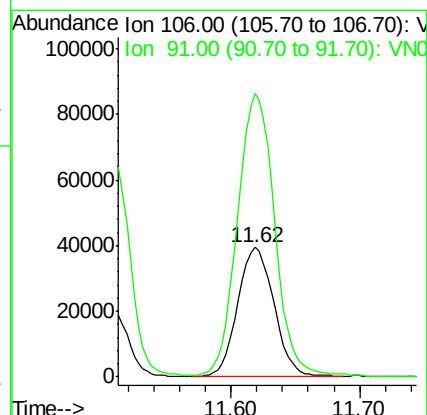
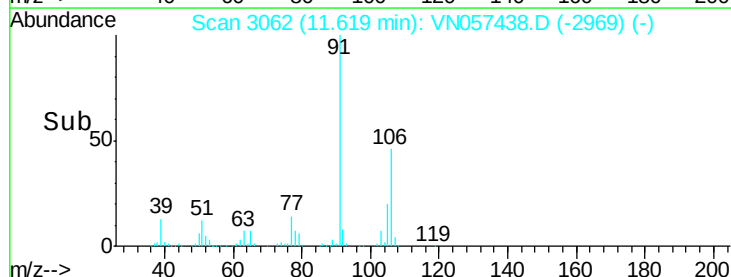
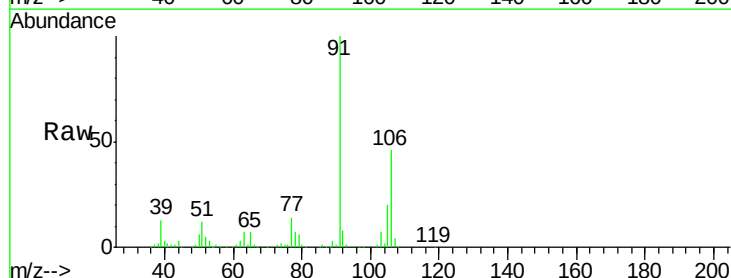
Acq: 22 Aug 2019 17:26

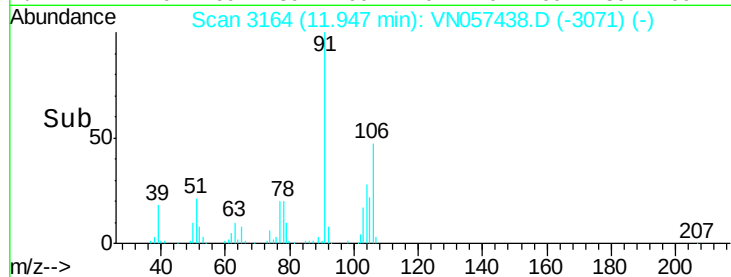
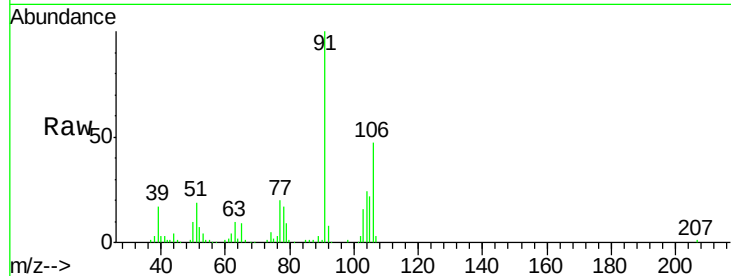
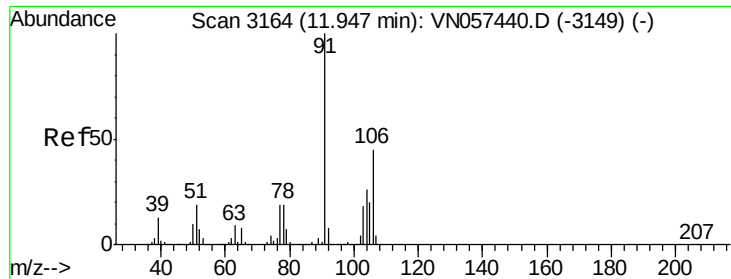
Tgt Ion: 106 Resp: 77958

Ion Ratio Lower Upper

106 100

91 222.3 171.8 257.6





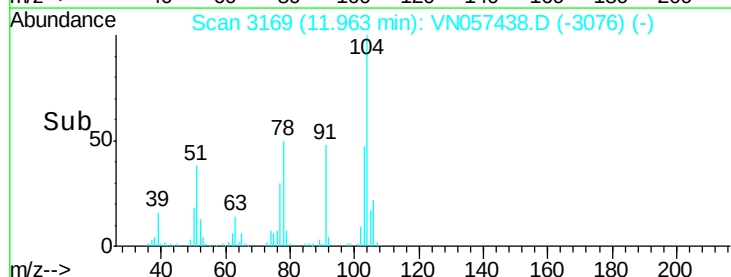
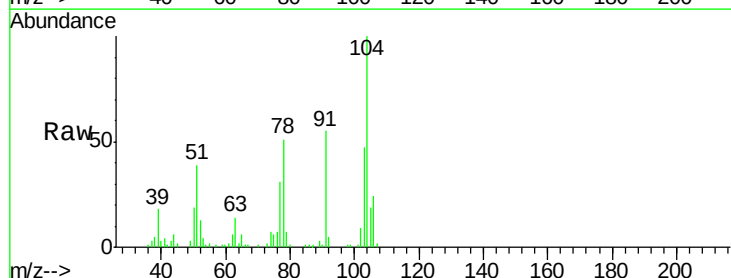
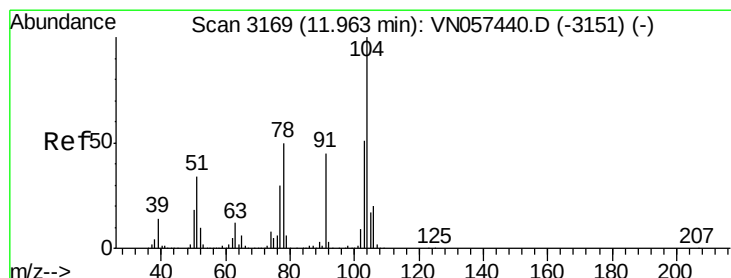
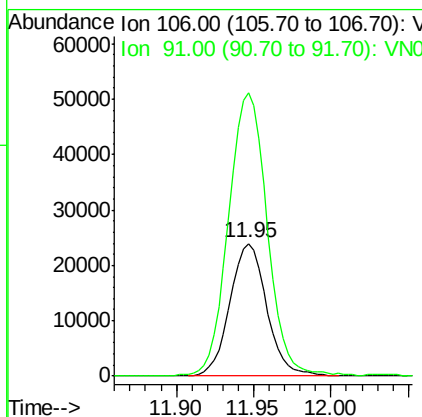
#69
o-Xylene
Concen: 5.278 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tot Ion	Ratio	Lower	Upper
106	100		
91	225.1	112.3	336.9

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

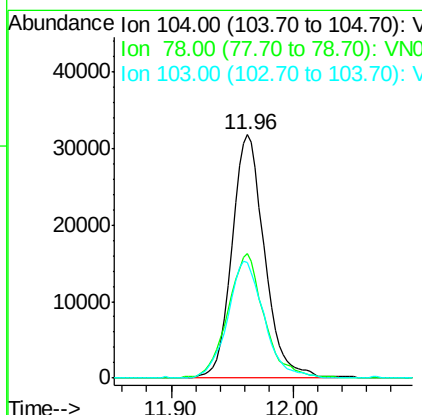
Manual Integrations
APPROVED

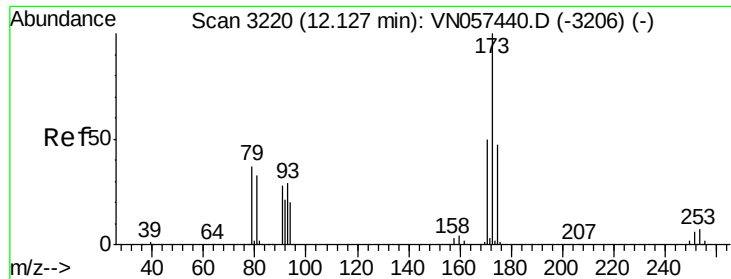
MMDadoda
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#70
Styrene
Concen: 4.931 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
104	100		
78	57.7	44.7	67.1
103	54.0	44.4	66.6





#71

Bromoform

Concen: 4.463 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

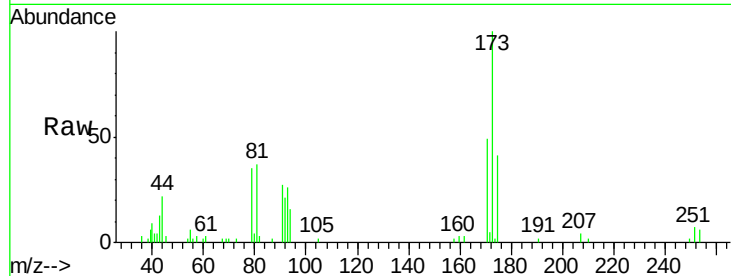
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	42.7	23.9	71.8
254	0.0	0.1	0.1

Manual Integrations
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8/23/2019 2:40:01 PM

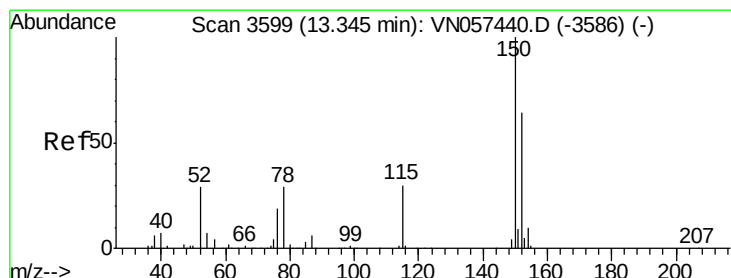
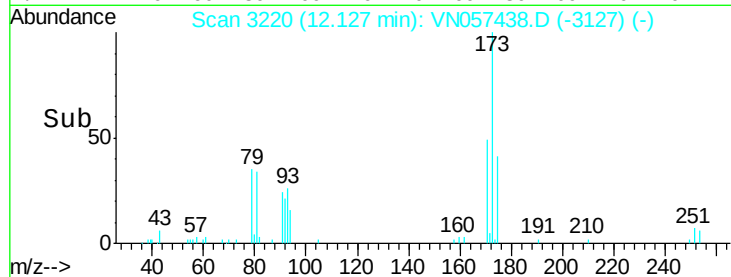
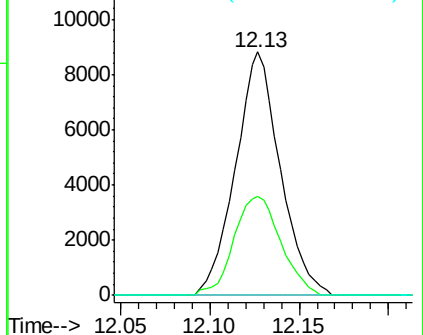


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

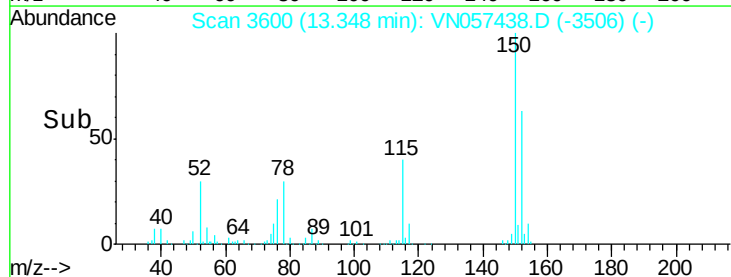
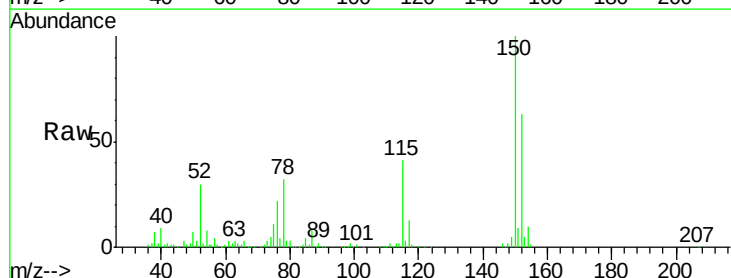
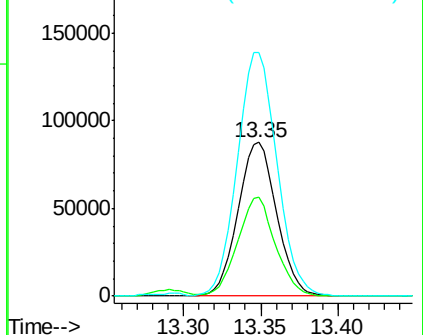
Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.9	32.0	96.0
150	162.3	0.0	346.6

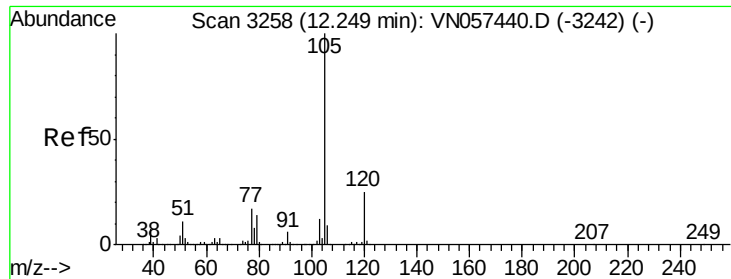
Abundance

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: 7.012 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 105128

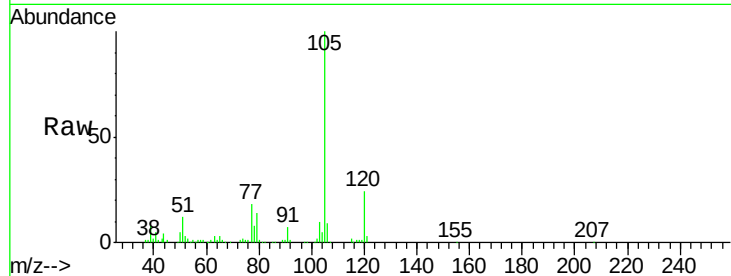
Ion Ratio Lower Upper

105 100

120 24.1 12.7 38.0

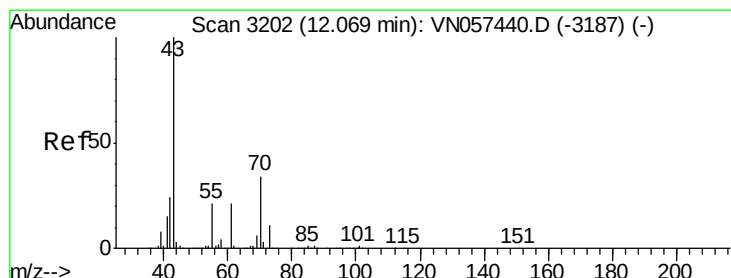
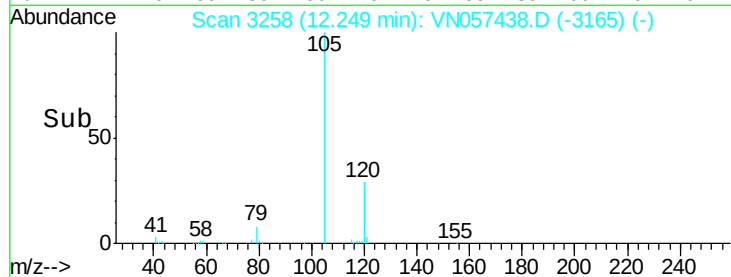
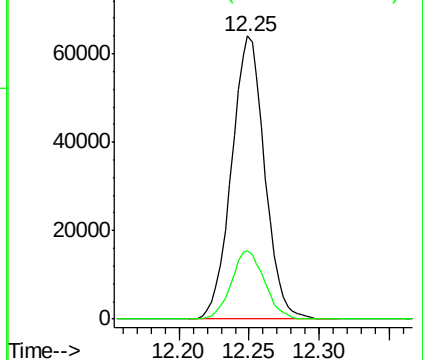
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 10.469 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion: 43 Resp: 50628

Ion Ratio Lower Upper

43 100

70 33.5 27.8 41.6

55 20.1 17.0 25.4

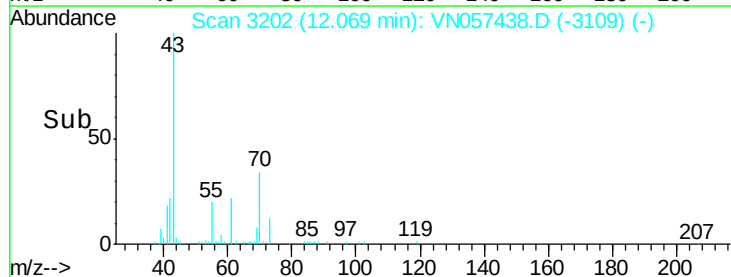
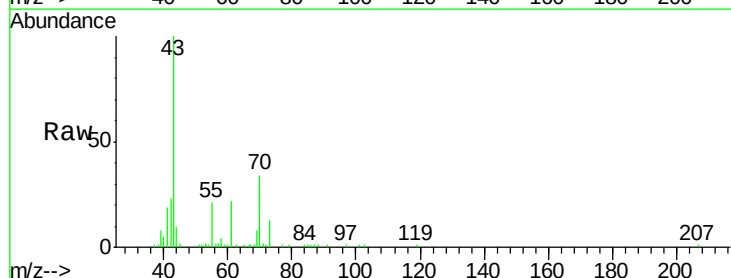
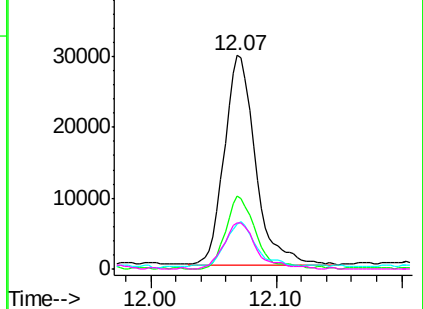
61 23.4 17.0 25.6

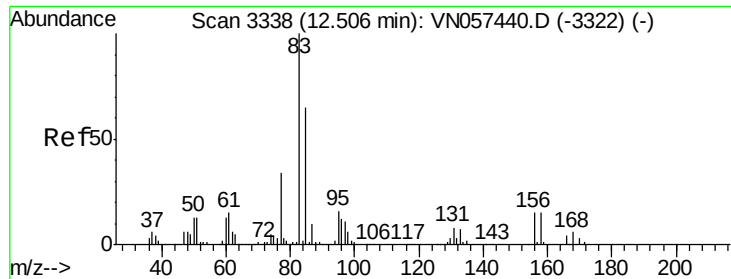
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 6.952 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

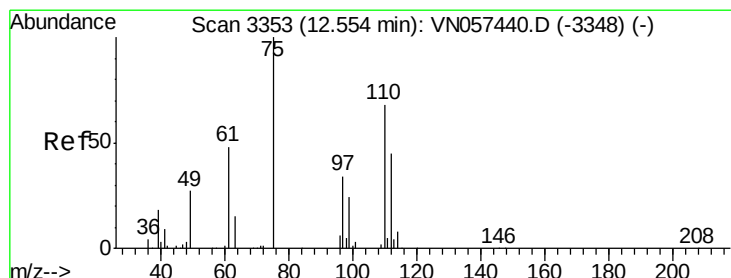
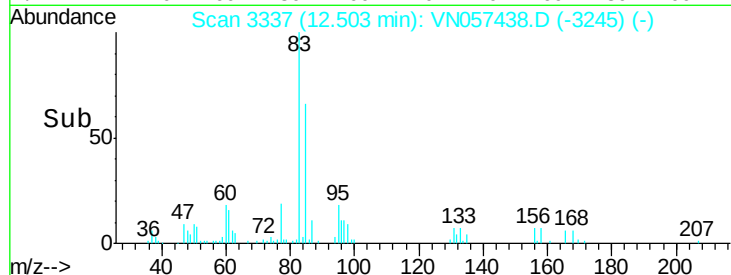
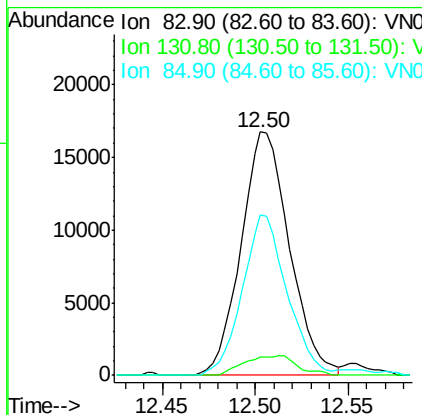
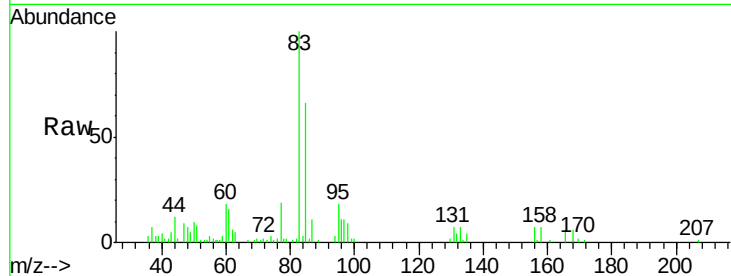
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	30475
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.3	13.1
85	60.7	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 6.821 ug/l m

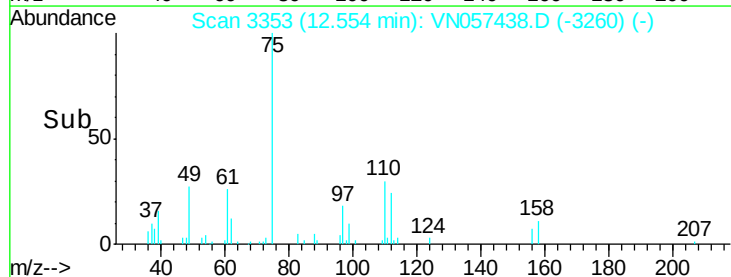
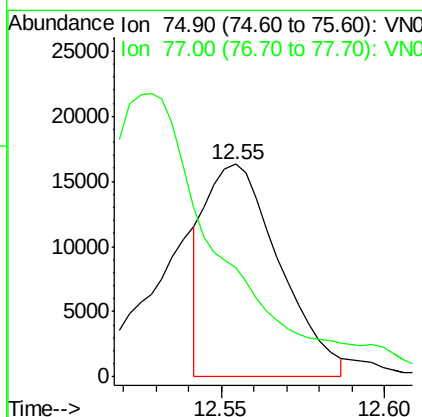
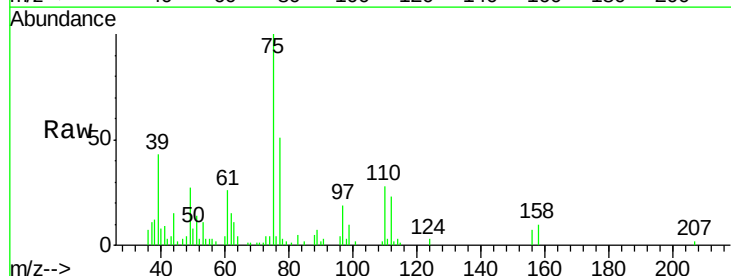
RT: 12.55 min Scan# 3353

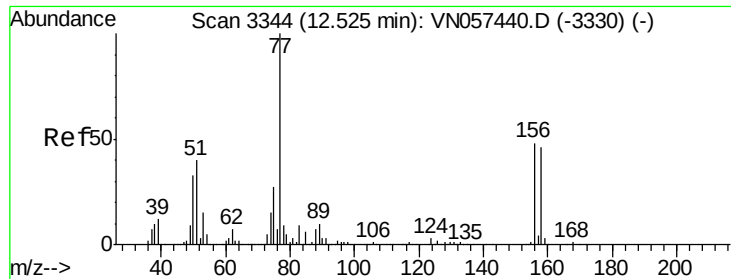
Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	75	Resp:	25643
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.197 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 19655

Ion Ratio Lower Upper

156 100

77 276.7 124.4 373.3

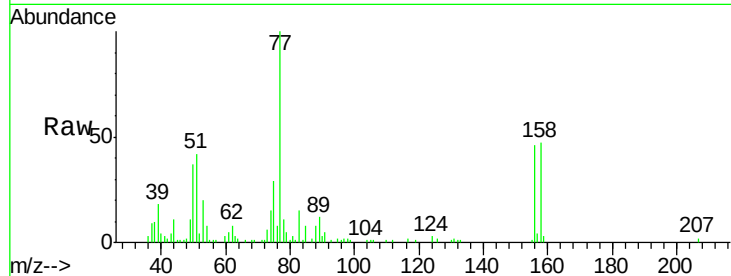
158 97.7 48.3 144.8

Manual Integrations

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MMDadoda

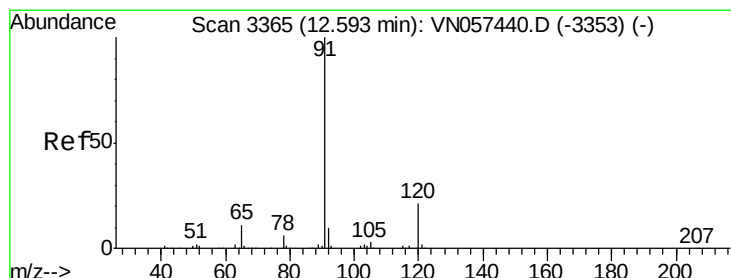
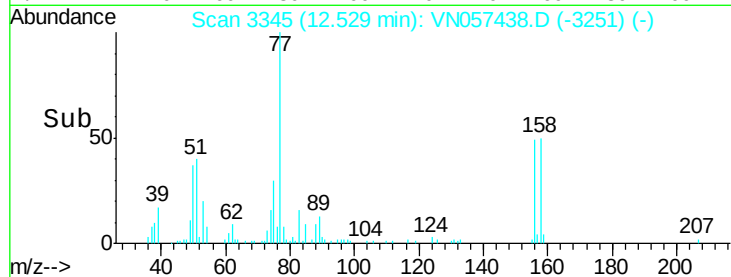
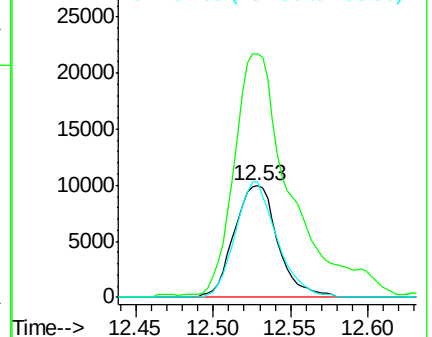
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 6.917 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN057438.D

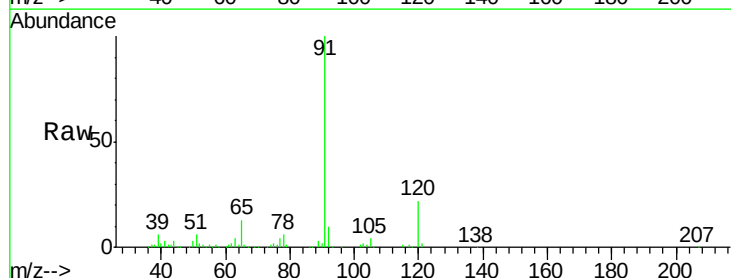
Acq: 22 Aug 2019 17:26

Tgt Ion: 91 Resp: 104446

Ion Ratio Lower Upper

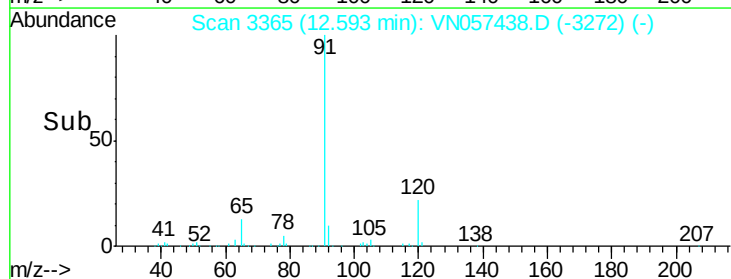
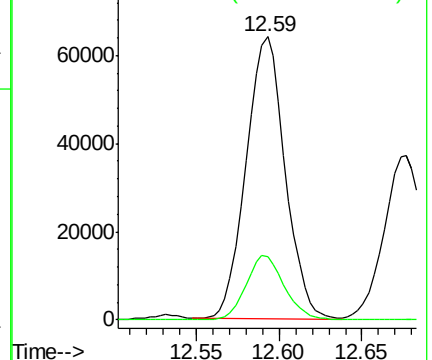
91 100

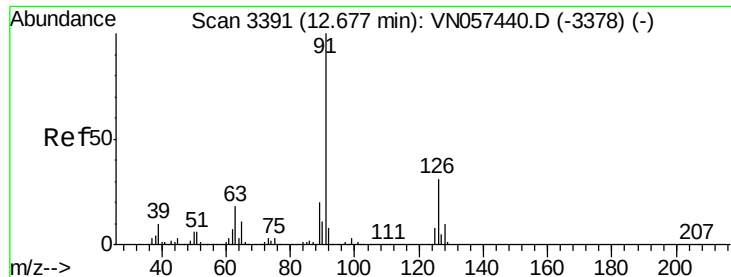
120 22.4 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 6.714 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 64734

Ion Ratio Lower Upper

91 100

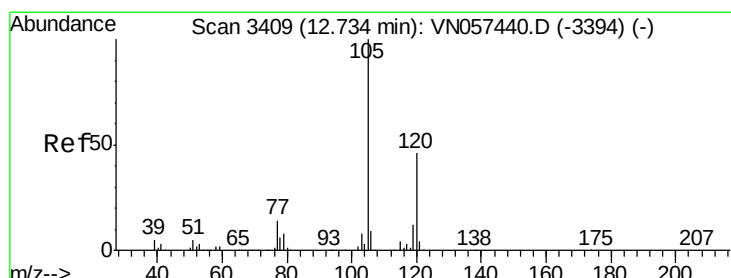
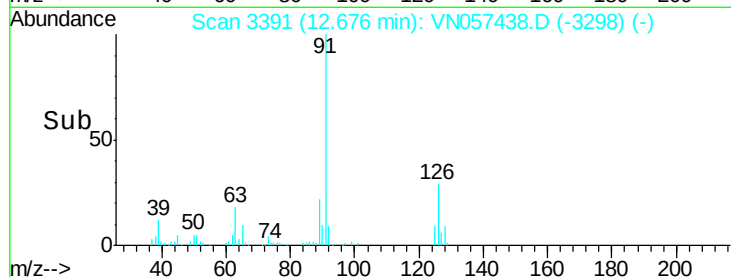
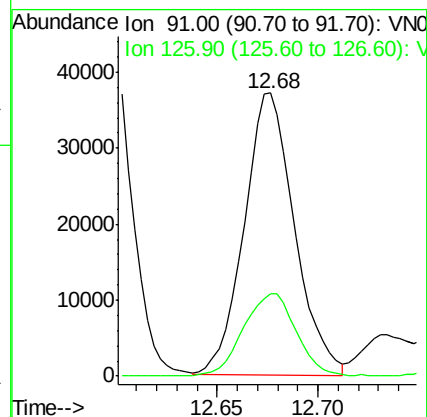
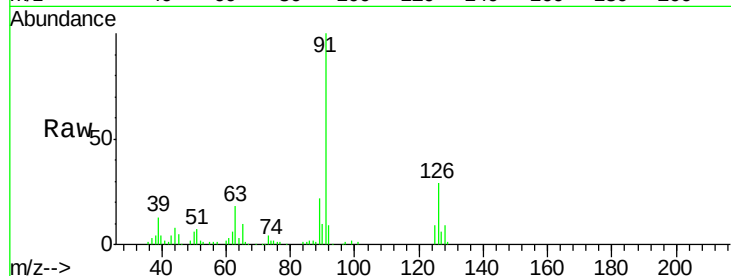
126 30.7 15.3 45.8

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#80

1,3,5-Trimethylbenzene

Concen: 6.521 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057438.D

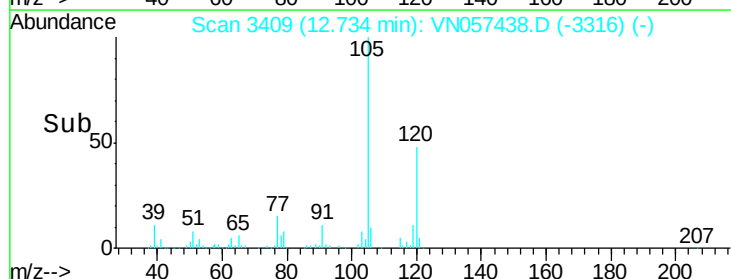
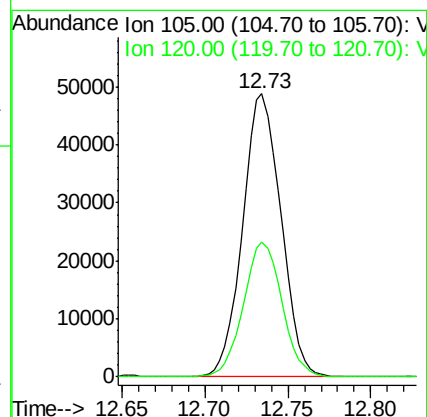
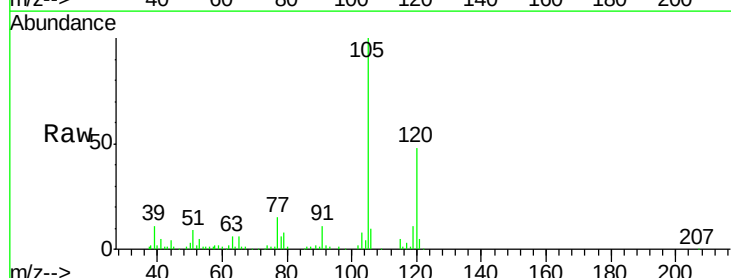
Acq: 22 Aug 2019 17:26

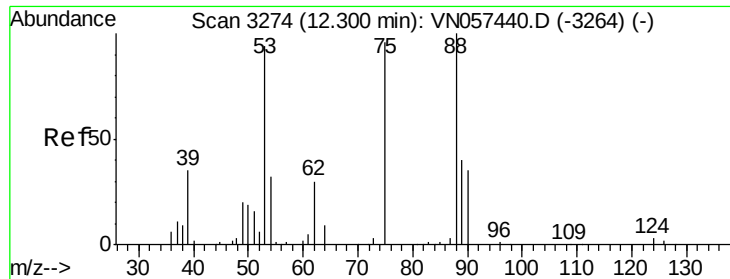
Tgt Ion: 105 Resp: 78634

Ion Ratio Lower Upper

105 100

120 47.9 23.3 69.8





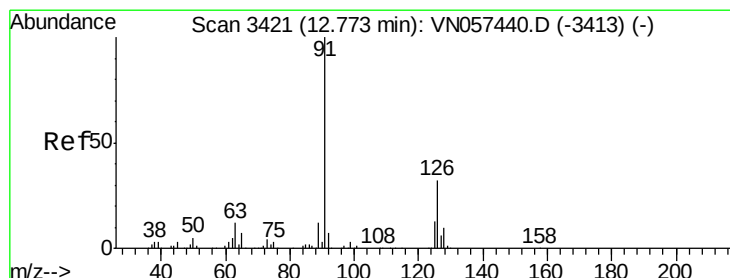
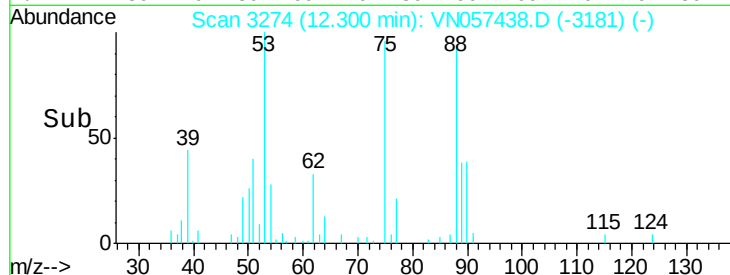
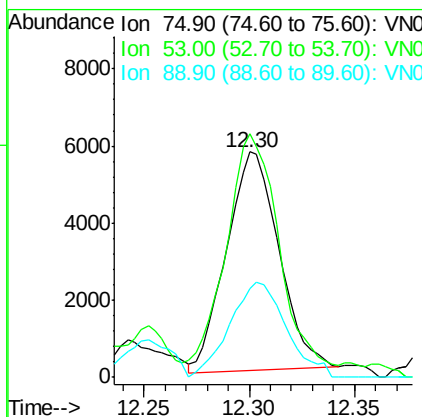
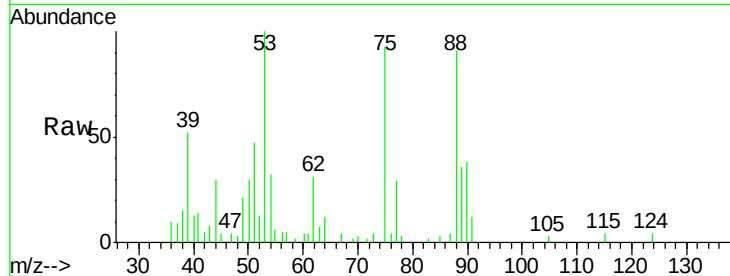
#81
trans-1,4-Dichloro-2-butene
Concen: 7.635 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	104.7	82.7	124.1
89	46.8	35.8	53.8

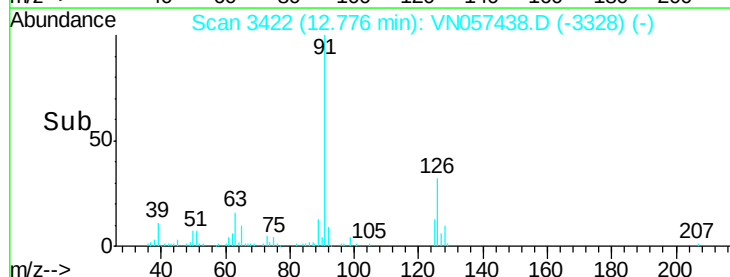
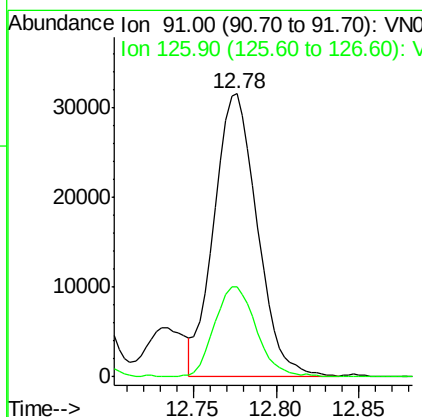
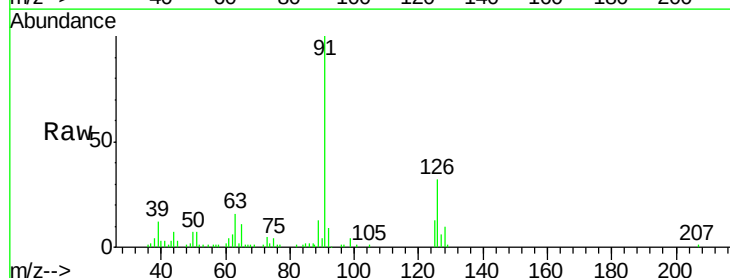
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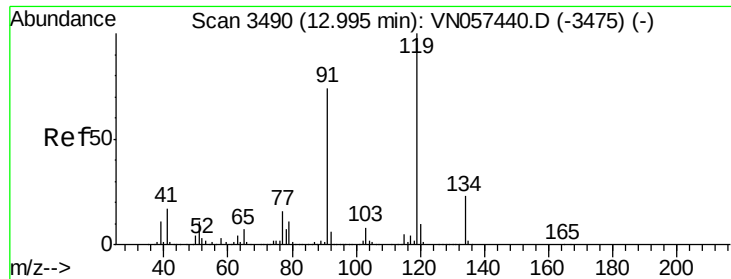
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#82
4-Chlorotoluene
Concen: 6.452 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN057438.D
Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.0	45.0





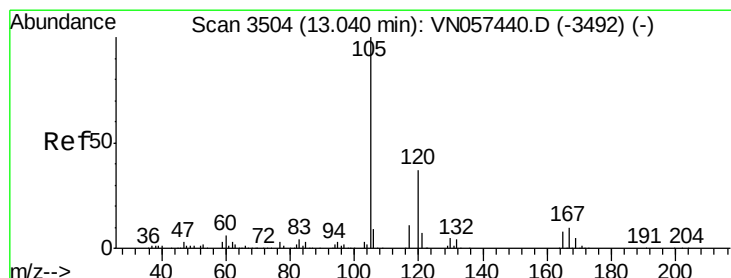
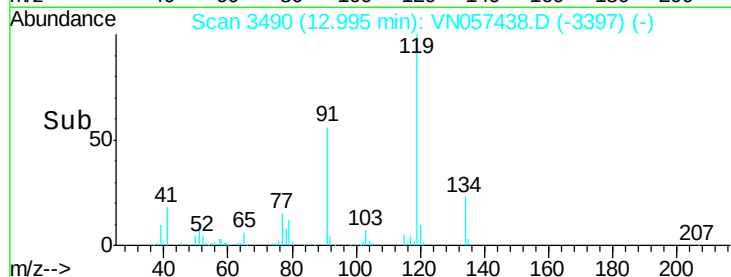
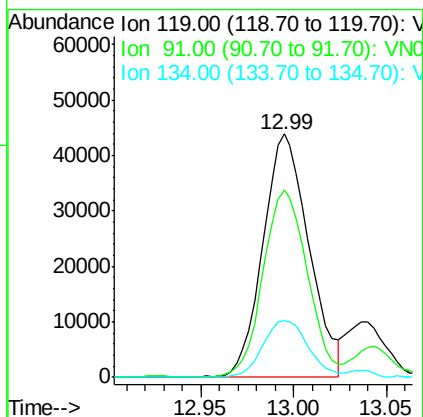
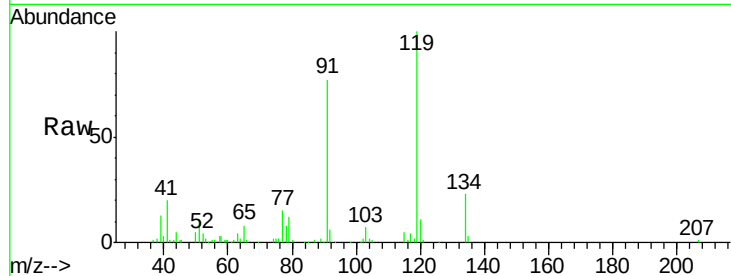
#83
 tert-Butylbenzene
 Concen: 6.852 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	74.4	37.0	111.0
134	23.1	12.2	36.6

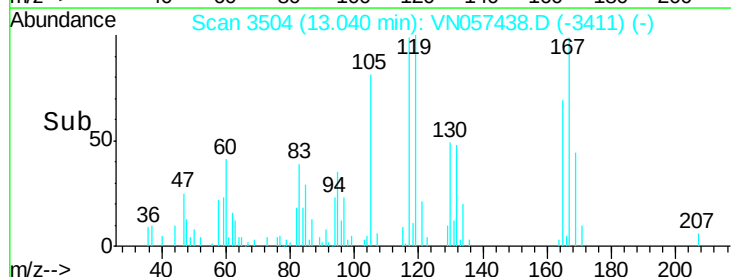
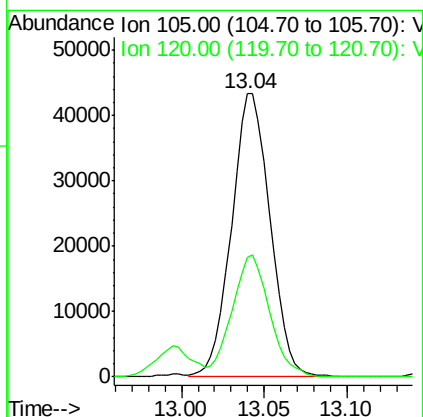
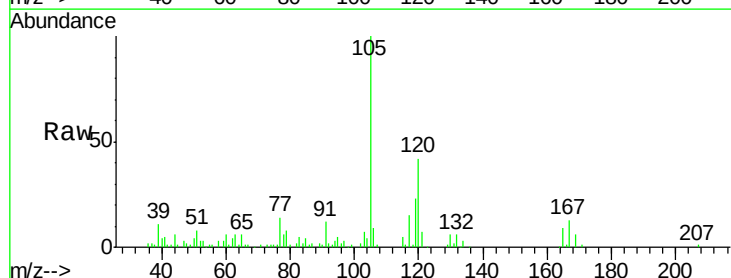
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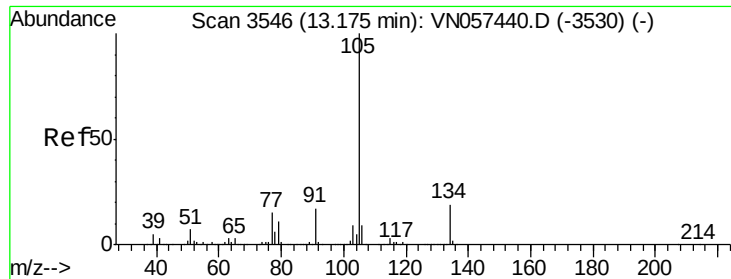
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 8/23/2019 2:40:01 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 6.260 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.9	65.7





#85

sec-Butylbenzene

Concen: 6.453 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 86562

Ion Ratio Lower Upper

105 100

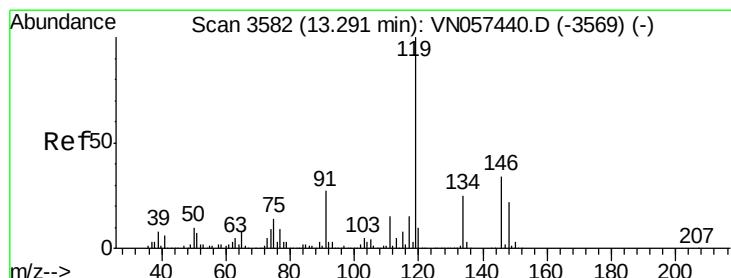
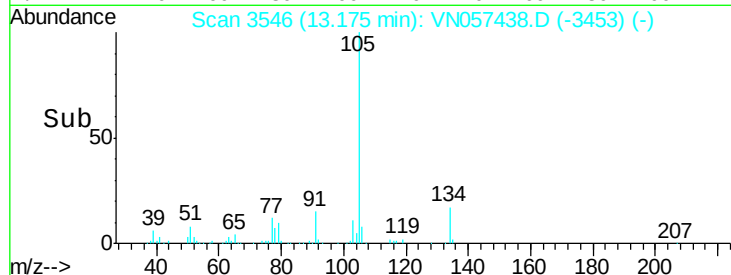
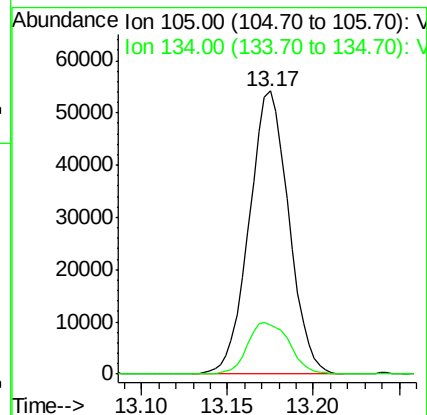
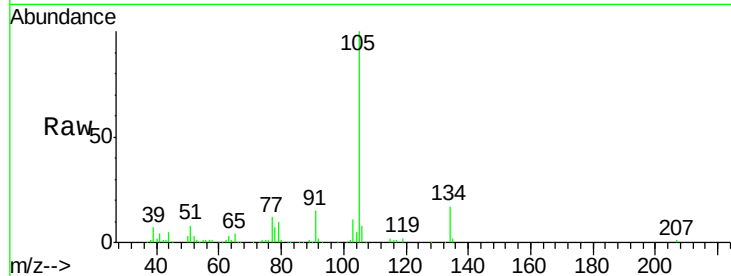
134 19.3 9.3 27.9

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 6.224 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

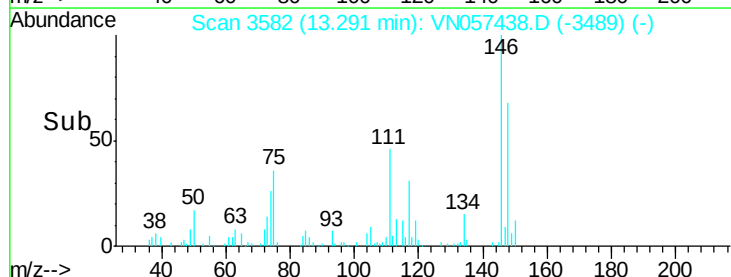
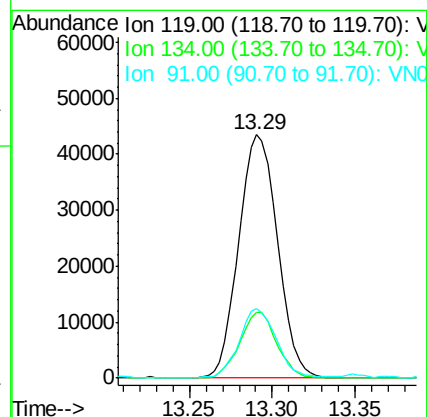
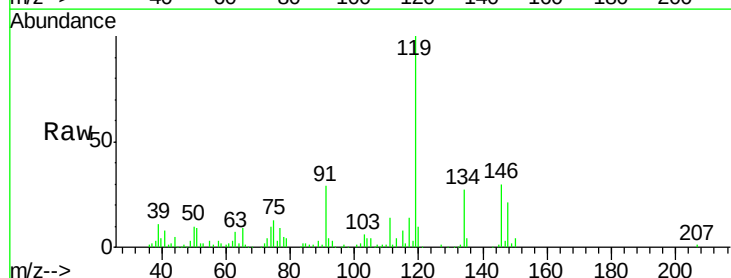
Tgt Ion:119 Resp: 70874

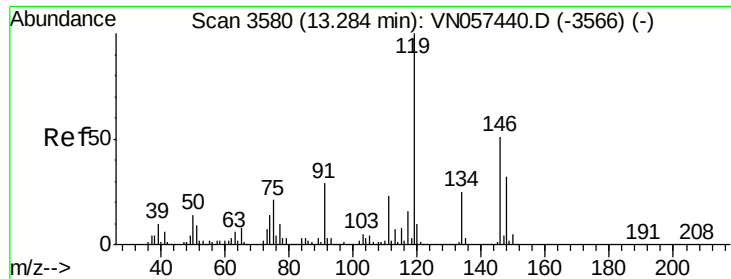
Ion Ratio Lower Upper

119 100

134 25.6 12.7 38.1

91 27.7 13.9 41.6





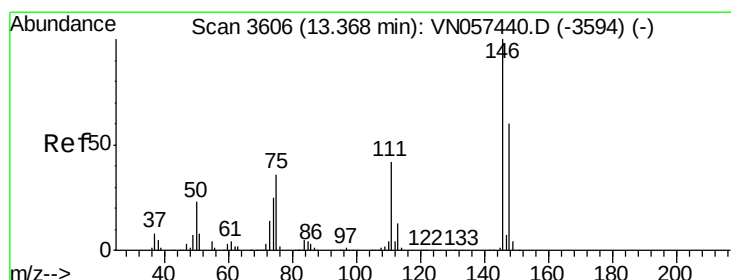
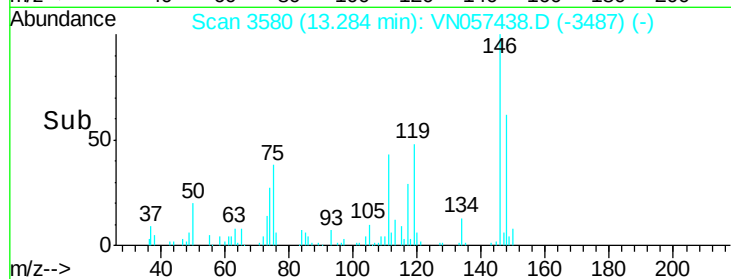
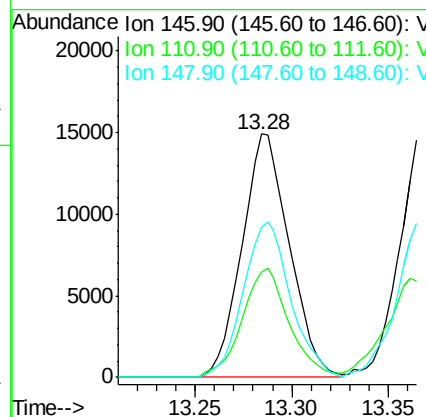
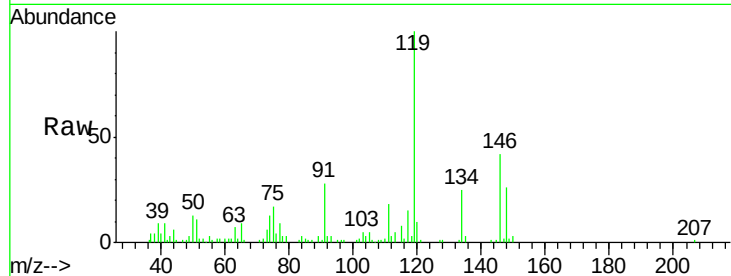
#87
 1,3-Dichlorobenzene
 Concen: 4.814 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.1	66.1
148	63.8	31.9	95.9

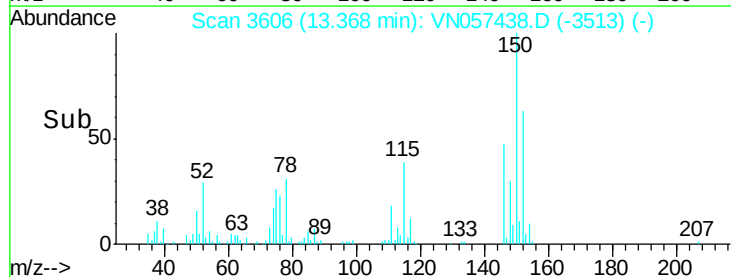
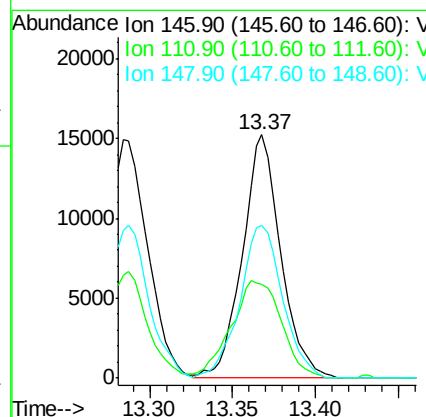
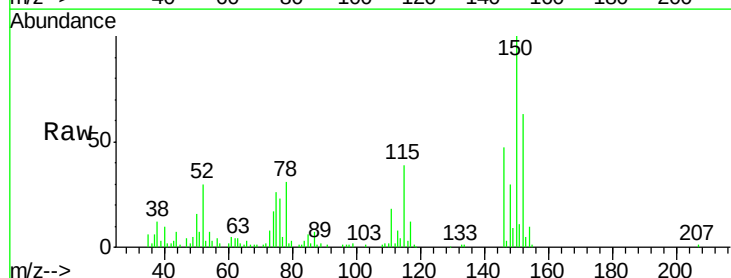
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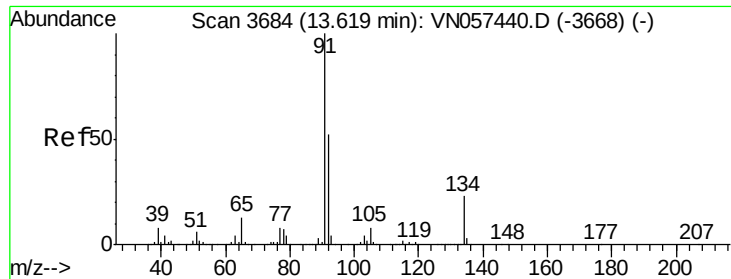
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#88
 1,4-Dichlorobenzene
 Concen: 4.853 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.8	21.9	65.5
148	70.2	31.1	93.2





#89

n-Butylbenzene

Concen: 6.819 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

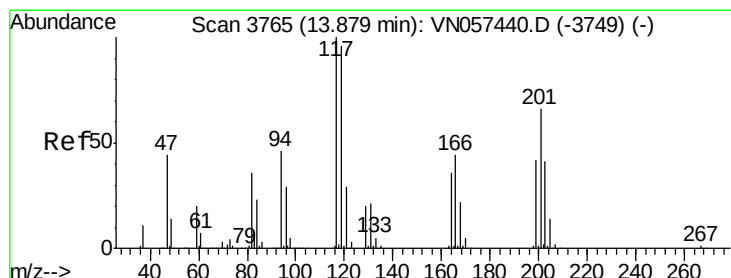
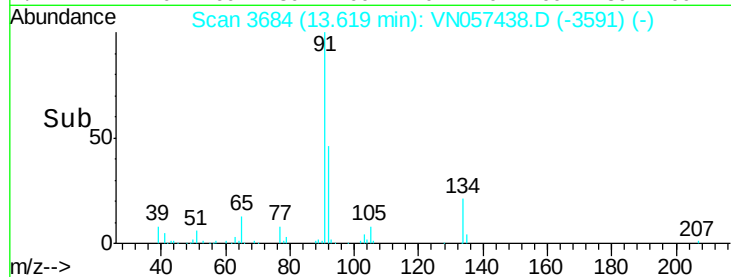
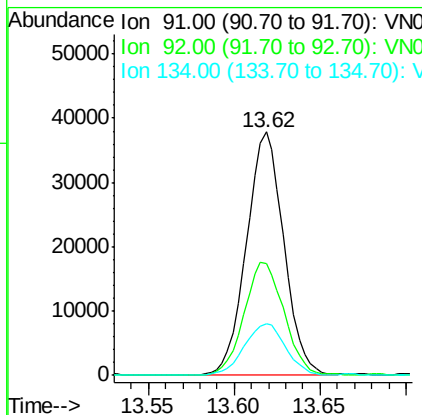
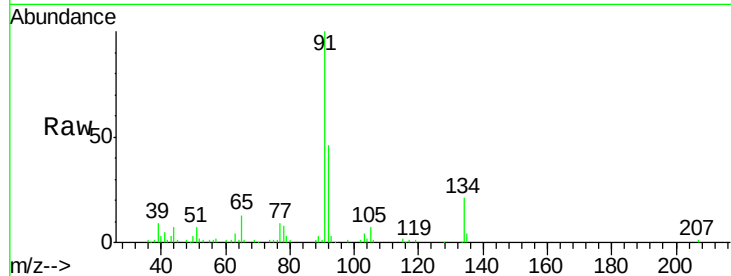
ClientSampleId :

VSTDIC005

Tot Ion:	91	Resp:	57112
Ion	Ratio	Lower	Upper
91	100		
92	49.3	25.7	77.0
134	23.4	11.4	34.1

Manual Integrations
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#90

Hexachloroethane

Concen: 7.198 ug/l

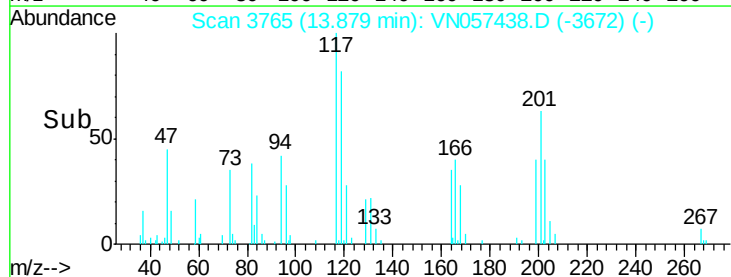
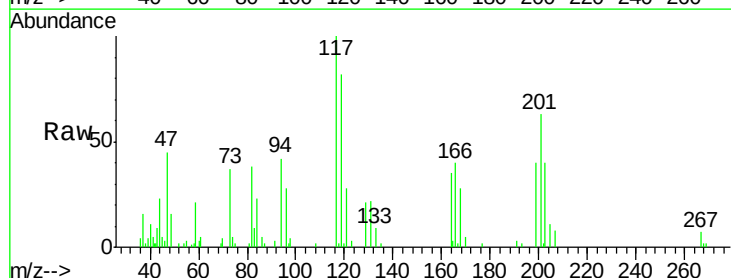
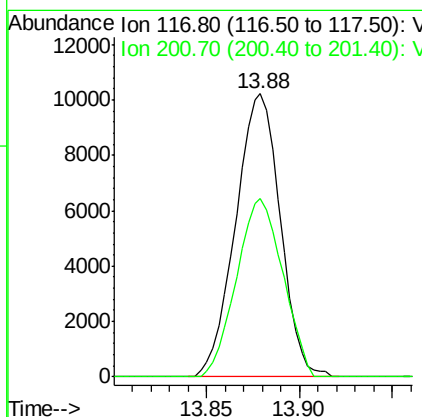
RT: 13.88 min Scan# 3765

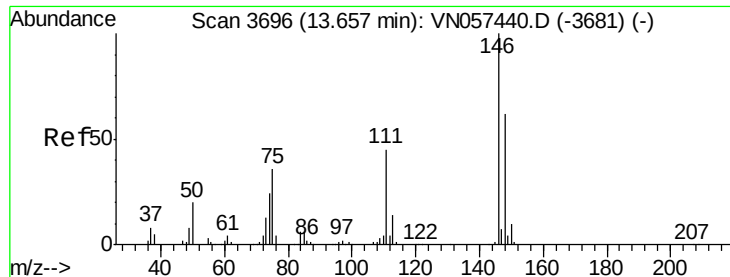
Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	117	Resp:	17114
Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.1	99.3





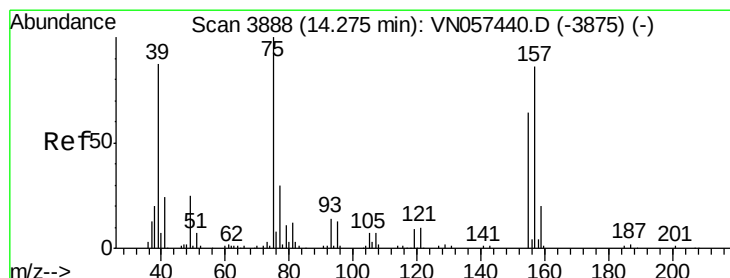
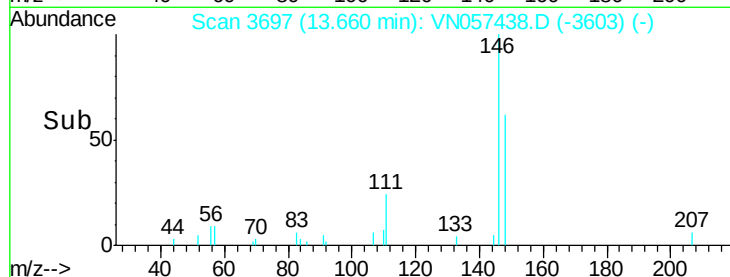
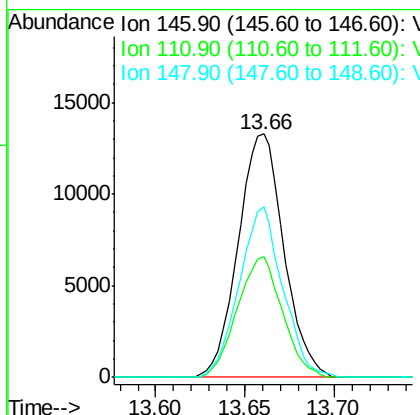
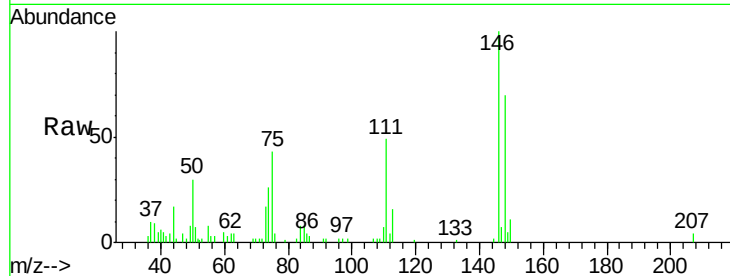
#91
 1,2-Dichlorobenzene
 Concen: 4.825 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	23.1	69.2
148	66.9	31.8	95.4

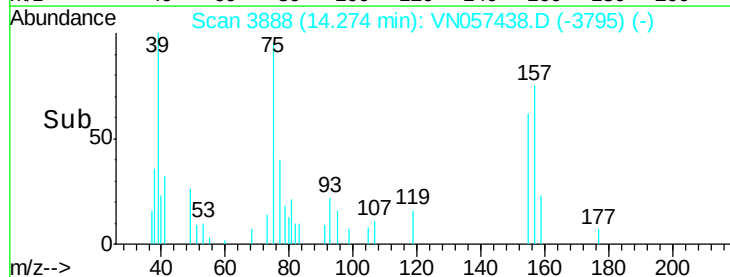
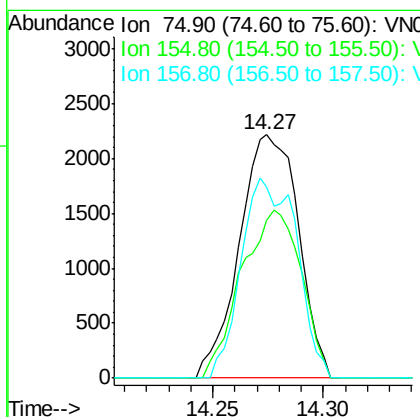
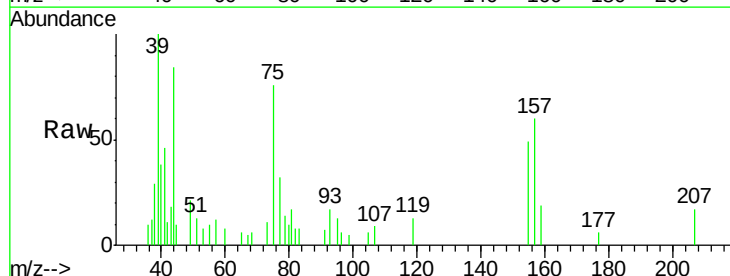
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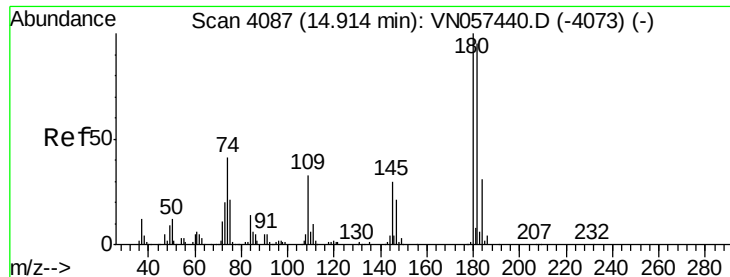
MMDadoda
 8/23/2019 2:40:01 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.132 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.9	31.6	94.7
157	77.2	43.3	129.8





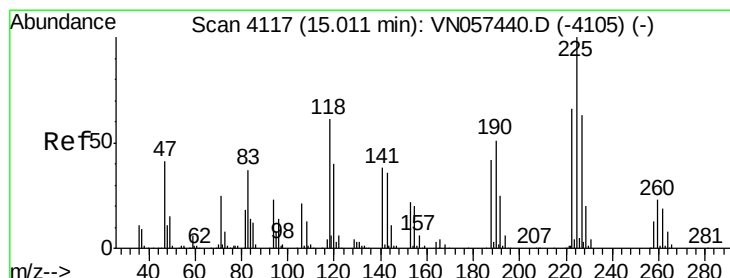
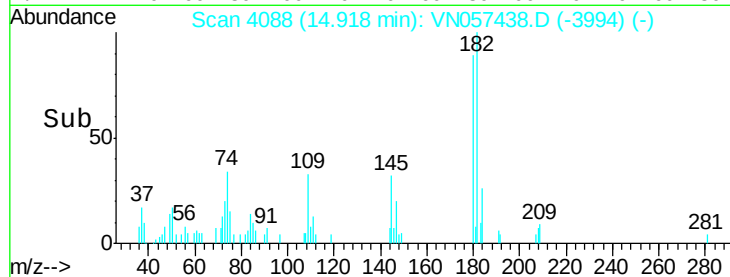
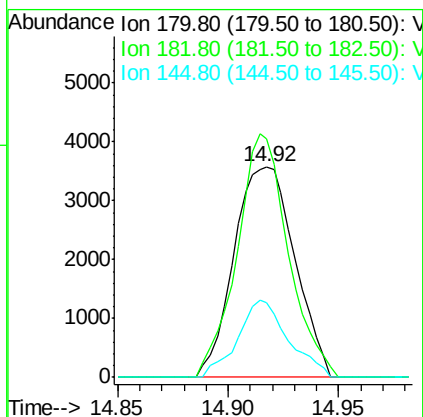
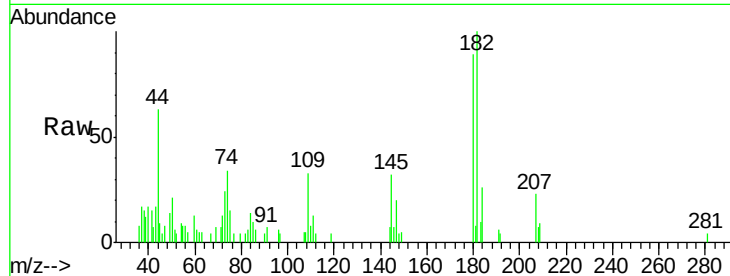
#93
 1,2,4-Trichlorobenzene
 Concen: 4.148 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.8	46.7	140.1
145	30.6	15.6	46.8

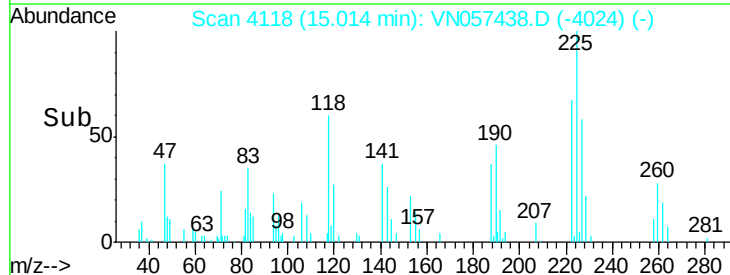
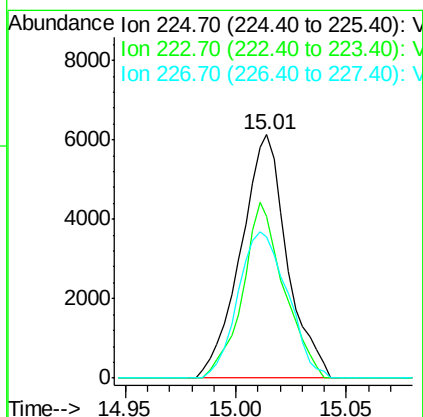
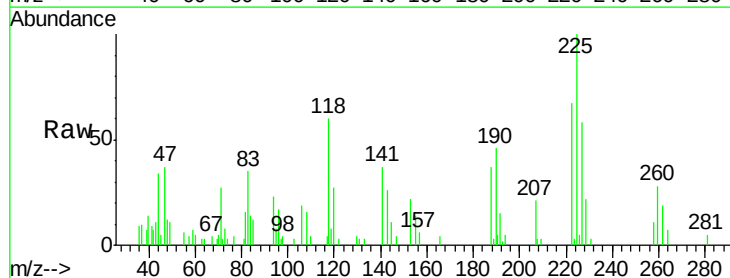
Manual Integrations
 APPROVED

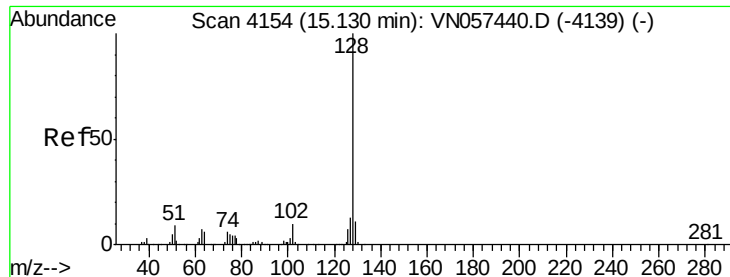
MMDadoda
 8/23/2019 2:40:01 PM



#94
 Hexachlorobutadiene
 Concen: 4.106 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN057438.D
 Acq: 22 Aug 2019 17:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.5	32.0	96.2
227	64.0	31.5	94.5





#95

Naphthalene

Concen: 6.314 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Instrument :

MSVOA_N

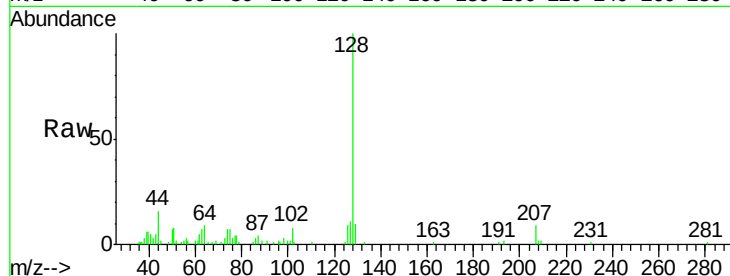
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	24187
Ion Ratio	Lower	Upper	
128	100		
127	12.1	10.5	15.7
129	10.1	8.6	13.0

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APPROVED

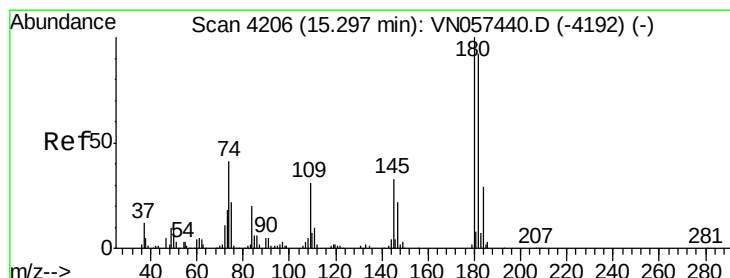
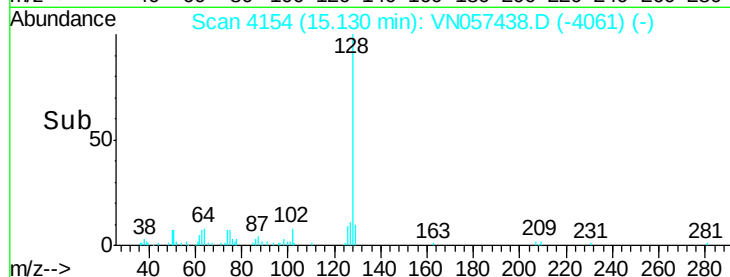
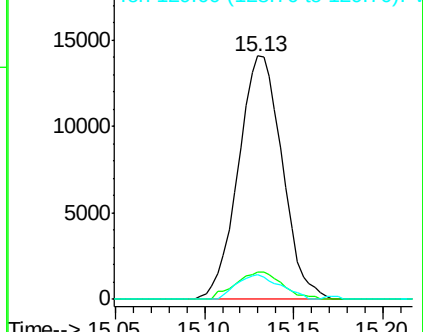
MMDadoda
8/23/2019 2:40:01 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.223 ug/l

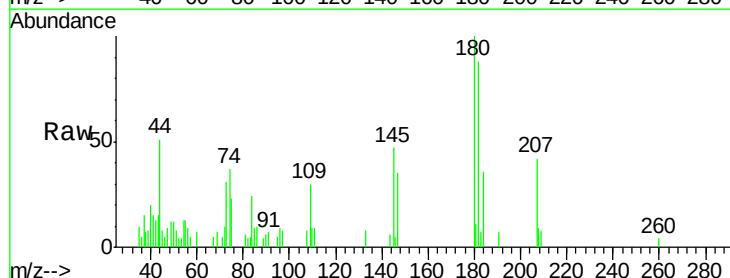
RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN057438.D

Acq: 22 Aug 2019 17:26

Tgt Ion:	180	Resp:	6675
Ion Ratio	Lower	Upper	
180	100		
182	91.1	46.7	140.1
145	39.1	16.8	50.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

