

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092419\
 Data File : VL034203.D
 Acq On : 24 Sep 2019 16:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:39:37 AM

Quant Time: Sep 25 06:59:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1121553	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1979466	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2096521m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1790785	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1287741	7.773	ppbv	99
3) Chlorodifluoromethane	2.97	51	1226069	9.324	ppbv	100
4) Chloromethane	3.12	50	755579	9.777	ppbv	96
5) Vinyl Chloride	3.24	62	671252	9.505	ppbv	98
6) Bromomethane	3.46	94	332814	10.101	ppbv	97
7) Chloroethane	3.55	64	240913	9.760	ppbv	94
8) Dichlorotetrafluoroethane	3.17	85	1397501	9.558	ppbv	99
9) Propene	2.99	41	634484	9.779	ppbv	99
10) Heptane	8.17	43	1630807	9.645	ppbv	99
11) Trichlorofluoromethane	3.95	101	1460362	9.684	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	969654	9.826	ppbv	99
13) Ethanol	3.60	45	139481	8.878	ppbv	100
14) Bromoethene	3.74	108	415548	10.299	ppbv	99
15) Acetone	3.85	43	1246600	8.293	ppbv	100
16) 1,3-Butadiene	3.31	39	652951	9.953	ppbv	100
17) tert-Butyl alcohol	4.30	59	1136147	11.929	ppbv	100
18) 1,1-Dichloroethene	4.29	96	441082	10.247	ppbv	97
19) Isopropyl Alcohol	3.97	45	961396	10.401	ppbv #	99
20) Methylene Chloride	4.35	84	416227	9.604	ppbv	98
21) Allyl Chloride	4.42	41	860106	10.130	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	439909	10.215	ppbv	96
23) Vinyl Acetate	5.09	43	2156834	9.737	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1403196	9.408	ppbv	98
25) Ethyl Acetate	5.71	43	2635313	9.271	ppbv	100
26) Hexane	5.72	57	1131254	9.567	ppbv	98
27) Carbon Disulfide	4.56	76	1181990	10.839	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1809227	10.302	ppbv	99
29) Chloroform	5.79	83	1635831	9.681	ppbv	99
30) Cyclohexane	7.18	84	852707	9.989	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1195605	9.919	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1552337	9.526	ppbv	98
34) 2-Butanone	5.27	43	1812155	8.966	ppbv	98
35) Carbon Tetrachloride	7.06	117	1523307	9.263	ppbv	99
36) Benzene	6.94	78	2055776	9.403	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1425271	9.166	ppbv	100
38) Trichloroethene	7.89	130	691570	8.853	ppbv	98
39) 1,2-Dichloropropane	7.67	63	922548	9.392	ppbv	97
40) 1,4-Dioxane	7.88	88	309417	9.734	ppbv #	88
41) Tetrahydrofuran	6.08	42	1108847	9.741	ppbv	99
42) Bromodichloromethane	7.85	83	1788075	9.582	ppbv	97
43) Methyl Methacrylate	8.07	69	896017	9.921	ppbv	98

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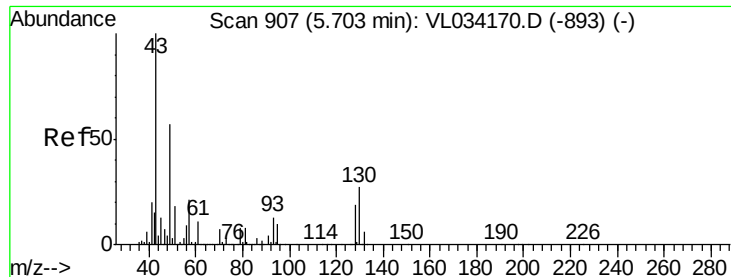
Manual Integrations
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Quant Time: Sep 25 06:59:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
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 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3809269	9.051	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1167026	10.929	ppbv	100
46) cis-1,3-Dichloropropene	8.76	75	1318609	10.266	ppbv	97
47) 1,1,2-Trichloroethane	9.54	97	816521	9.257	ppbv	97
48) Dibromochloromethane	10.38	129	1354112	9.686	ppbv	100
49) Bromoform	13.12	173	1113871	9.846	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2670093	9.077	ppbv	100
51) 2-Hexanone	10.20	43	2274193	9.213	ppbv #	99
52) Tetrachloroethene	11.30	164	644146	8.918	ppbv	97
53) Toluene	9.87	91	2294270	9.602	ppbv	99
54) 1,2-Dibromoethane	10.68	107	1232186	9.394	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.20	131	878641	9.397	ppbv	98
57) Chlorobenzene	12.23	112	1598394	8.757	ppbv	99
58) Ethyl Benzene	12.79	91	3086372	9.124	ppbv	99
59) m/p-Xylene	13.08	91	4987408m	17.800	ppbv	
60) o-Xylene	13.77	91	2483836	8.865	ppbv	100
61) Styrene	13.61	104	1879699	9.366	ppbv	99
62) Isopropylbenzene	14.75	105	3205823	8.839	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	1817553	7.911	ppbv	99
64) n-propylbenzene	15.65	120	814543	8.877	ppbv	90
65) tert-Butylbenzene	16.83	119	2713514	8.563	ppbv	99
66) Benzyl Chloride	17.09	91	1290252	11.508	ppbv	99
67) sec-Butylbenzene	17.38	105	3936933	8.688	ppbv	99
69) p-Isopropyltoluene	17.74	119	3184283	8.678	ppbv	100
70) n-Butylbenzene	18.64	91	3620452	8.473	ppbv	99
71) 2-Chlorotoluene	15.54	91	2636471	8.897	ppbv	100
72) 4-Ethyltoluene	15.93	105	2854110	9.017	ppbv	100
73) 1,3,5-Trimethylbenzene	16.08	105	2719804	8.894	ppbv	97
74) 1,2,4-Trimethylbenzene	16.85	105	2738125	8.433	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1472619	8.453	ppbv	98
76) 1,4-Dichlorobenzene	17.23	146	1487028	8.335	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1449884	8.223	ppbv	100
78) Hexachloro-1,3-Butadiene	23.47	225	1105549	9.466	ppbv	98
79) Naphthalene	22.32	128	2457220	8.596	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	1086471	8.173	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1331678	8.410	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1121553

Ion Ratio Lower Upper

49 100

128 35.1 17.6 52.9

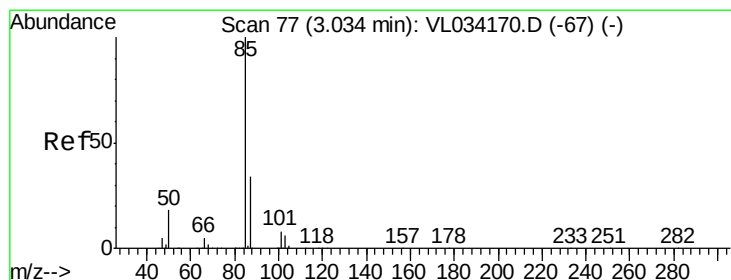
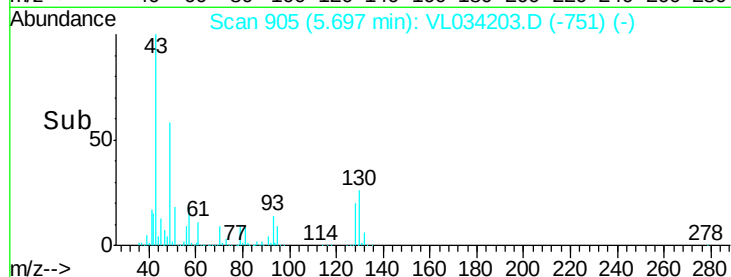
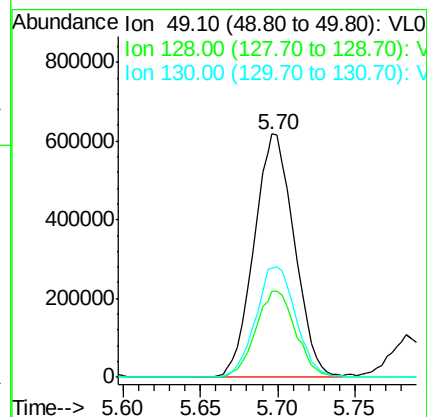
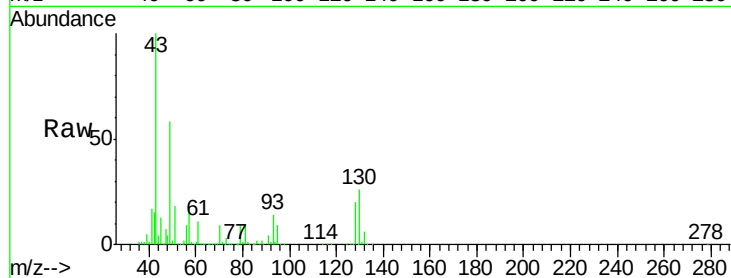
130 45.7 22.3 66.9

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#2

Dichlorodifluoromethane

Concen: 7.773 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034203.D

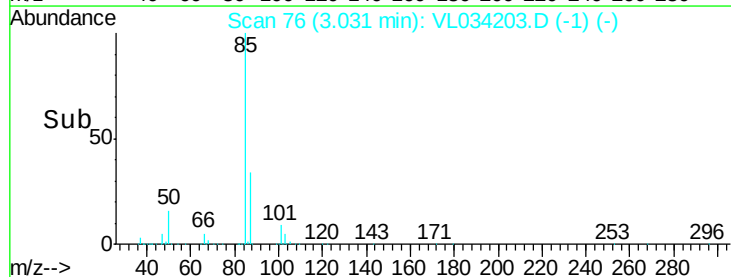
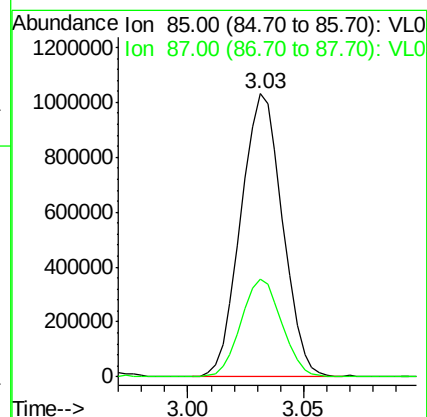
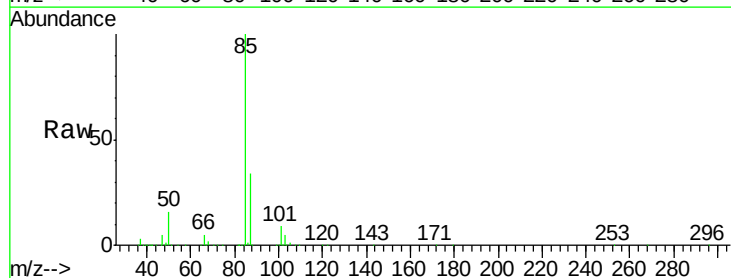
Acq: 24 Sep 2019 16:34

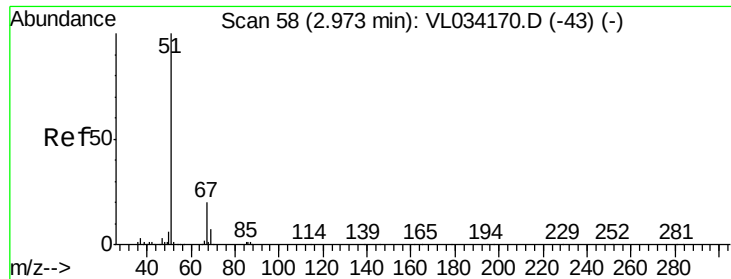
Tgt Ion: 85 Resp: 1287741

Ion Ratio Lower Upper

85 100

87 34.5 27.2 40.8





#3

Chlorodifluoromethane

Concen: 9.324 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1226069

Ion Ratio Lower Upper

51 100

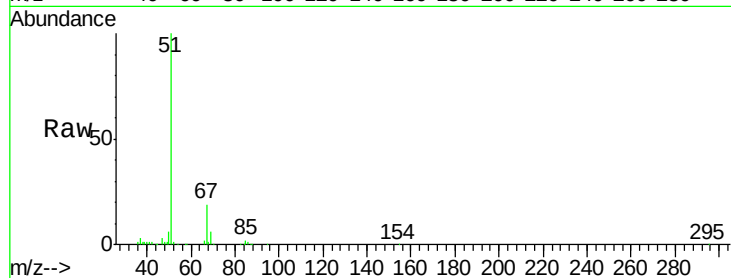
67 18.3 14.8 22.2

Manual Integrations

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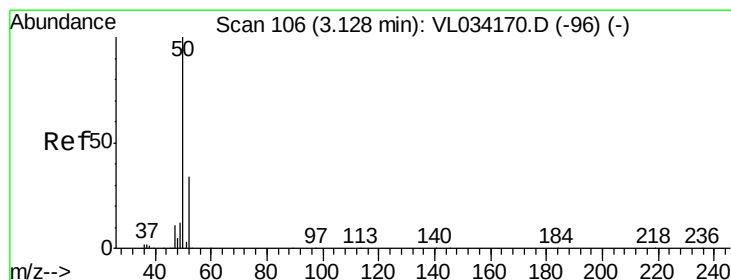
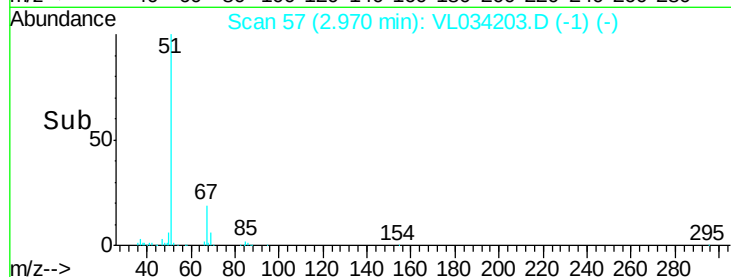
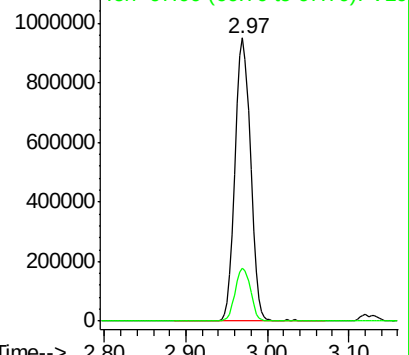
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.777 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034203.D

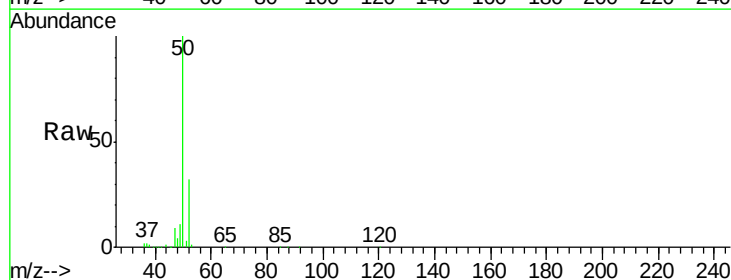
Acq: 24 Sep 2019 16:34

Tgt Ion: 50 Resp: 755579

Ion Ratio Lower Upper

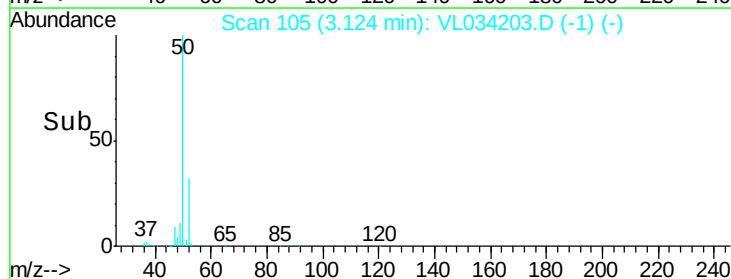
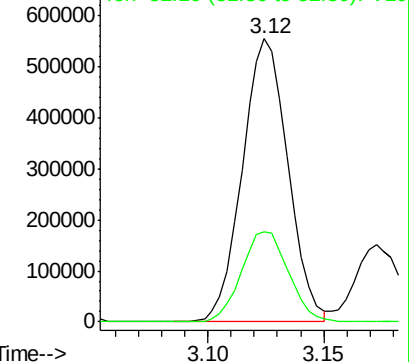
50 100

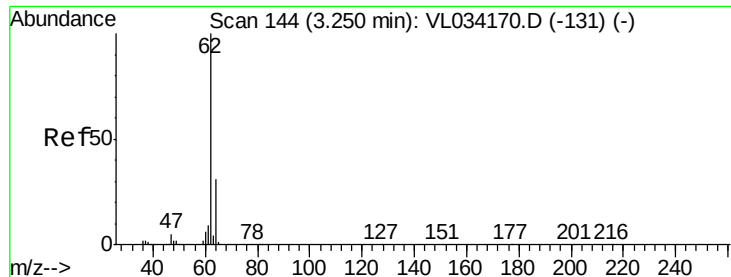
52 31.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.505 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 671252

Ion Ratio Lower Upper

62 100

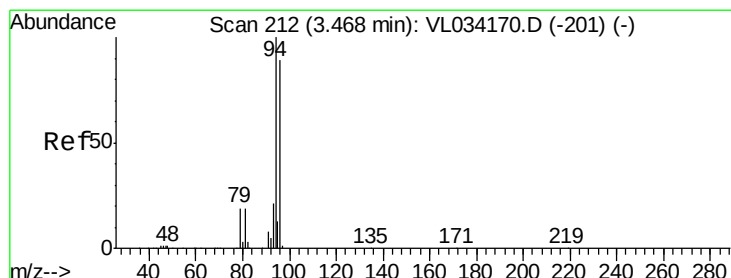
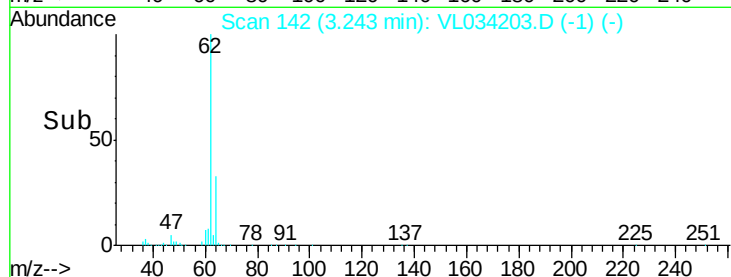
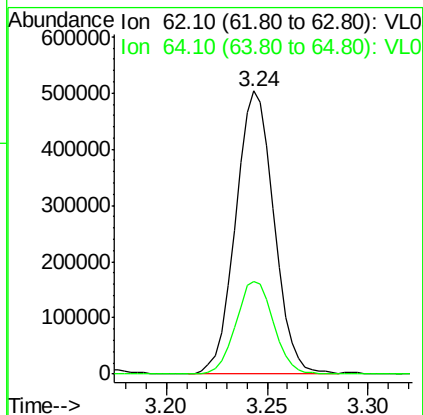
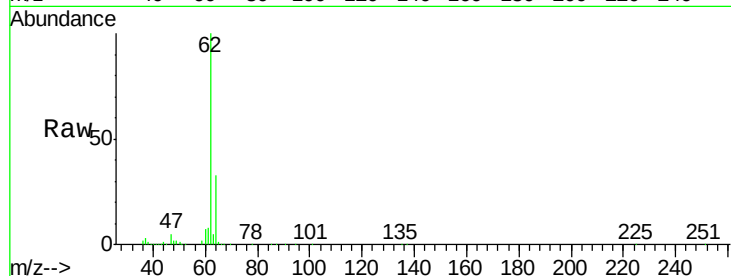
64 32.6 25.2 37.8

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#6

Bromomethane

Concen: 10.101 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL034203.D

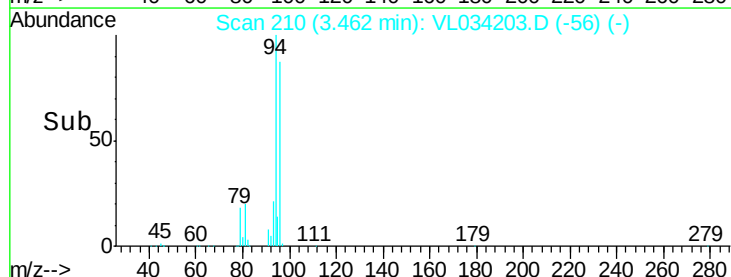
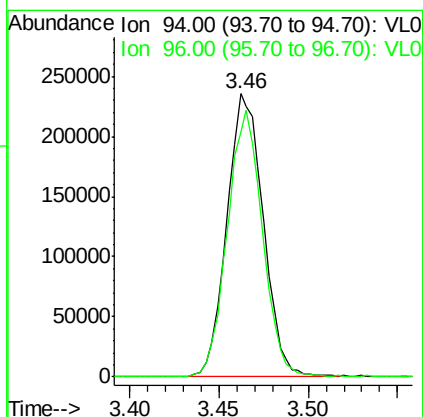
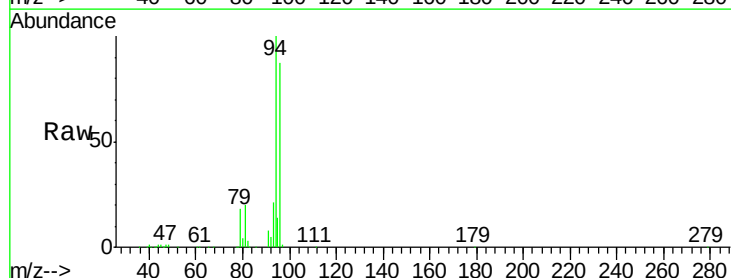
Acq: 24 Sep 2019 16:34

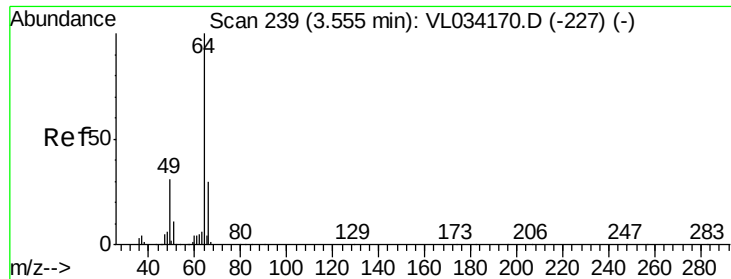
Tgt Ion: 94 Resp: 332814

Ion Ratio Lower Upper

94 100

96 86.5 71.3 106.9





#7

Chloroethane

Concen: 9.760 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 240913

Ion Ratio Lower Upper

64 100

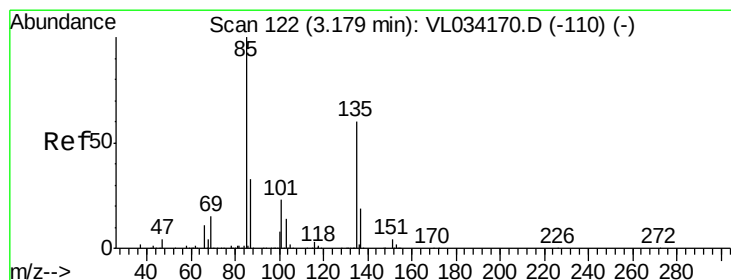
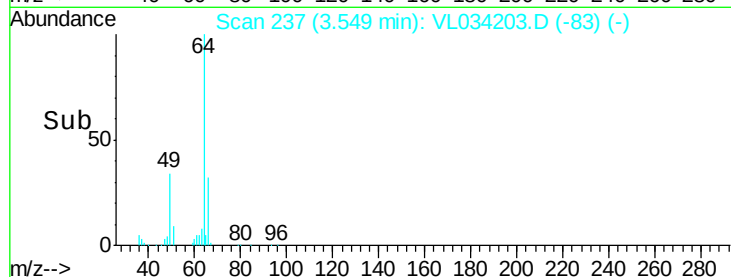
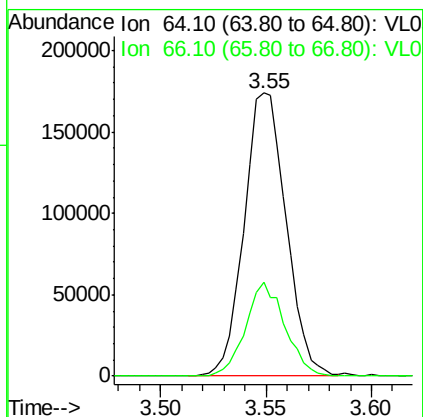
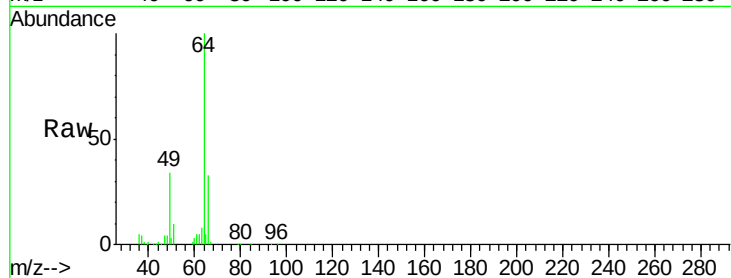
66 33.3 24.2 36.4

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#8

Dichlorotetrafluoroethane

Concen: 9.558 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL034203.D

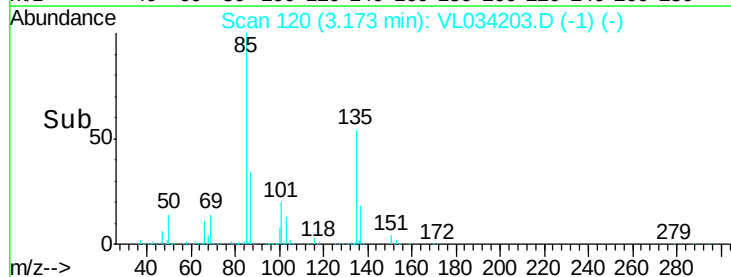
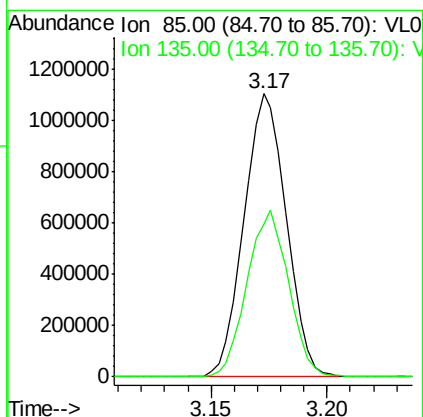
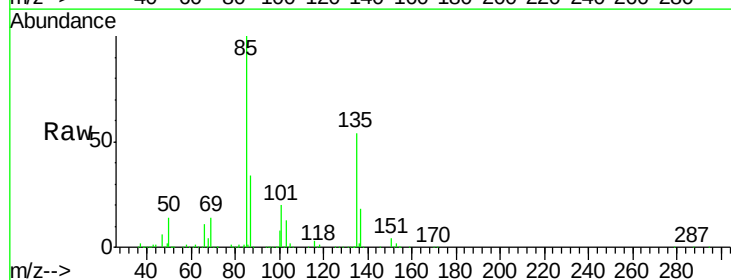
Acq: 24 Sep 2019 16:34

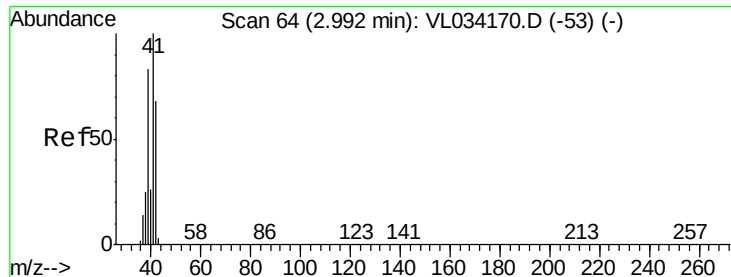
Tgt Ion: 85 Resp: 1397501

Ion Ratio Lower Upper

85 100

135 58.1 47.3 70.9





#9

Propene

Concen: 9.779 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 634484

Ion Ratio Lower Upper

41 100

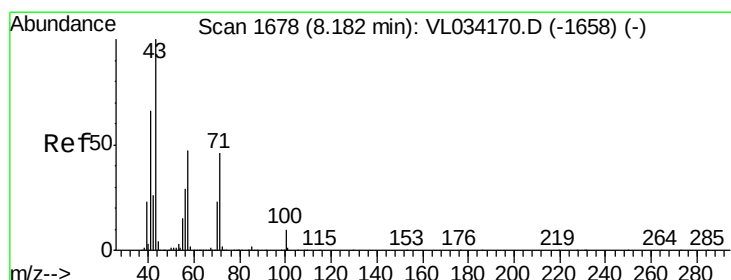
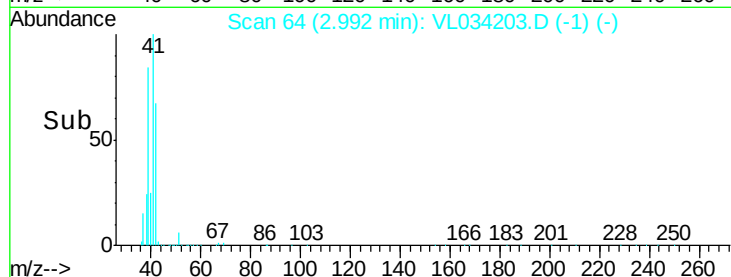
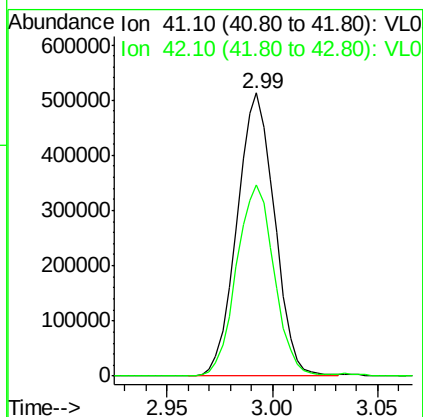
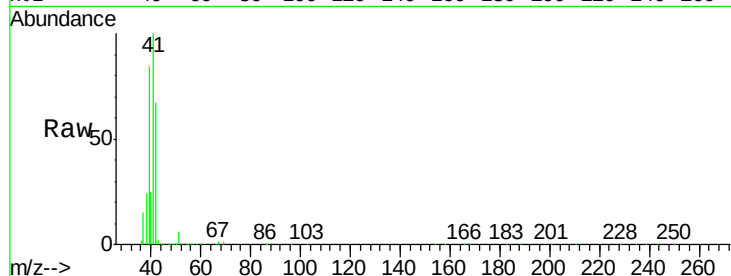
42 68.5 55.8 83.6

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#10

Heptane

Concen: 9.645 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. -0.01 min

Lab File: VL034203.D

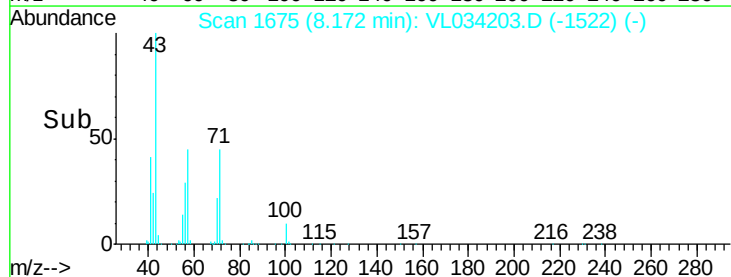
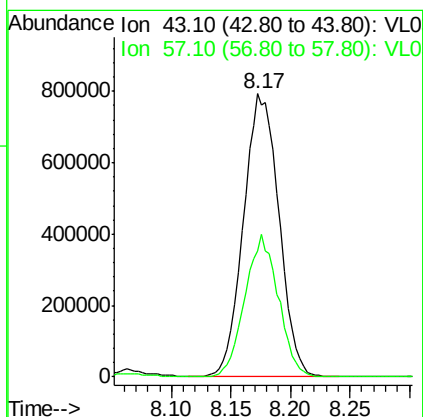
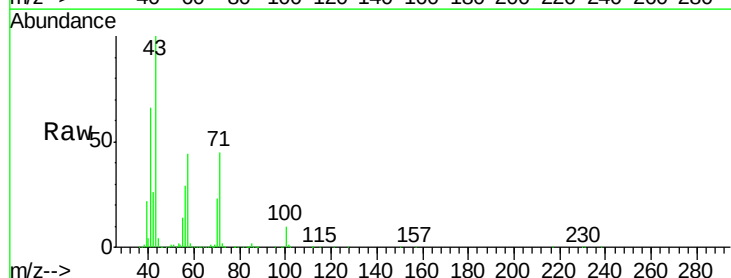
Acq: 24 Sep 2019 16:34

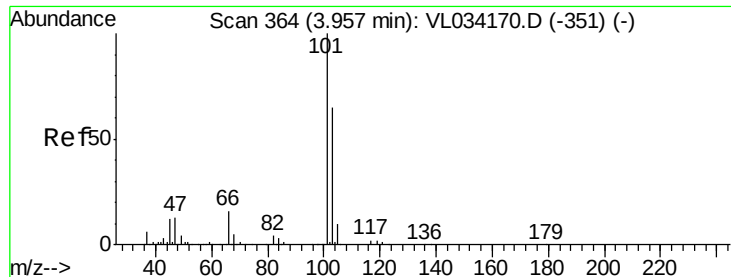
Tgt Ion: 43 Resp: 1630807

Ion Ratio Lower Upper

43 100

57 47.4 37.5 56.3





#11

Trichlorofluoromethane

Concen: 9.684 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1460362

Ion Ratio Lower Upper

101 100

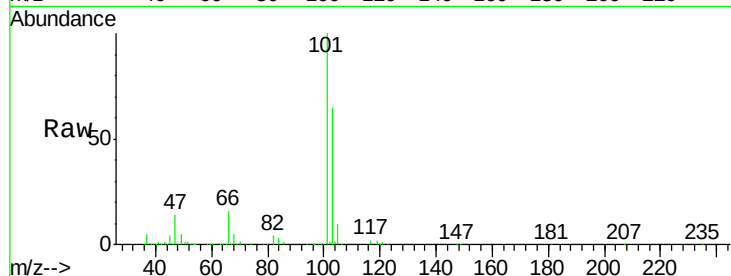
103 65.2 52.1 78.1

Manual Integrations

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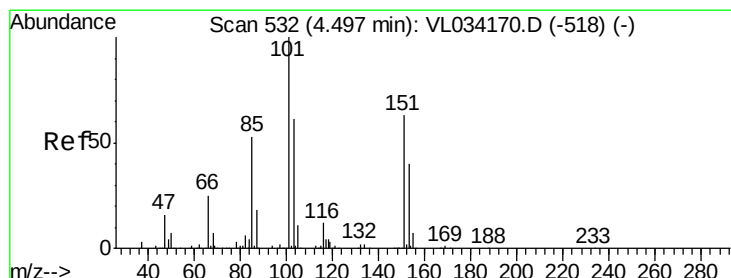
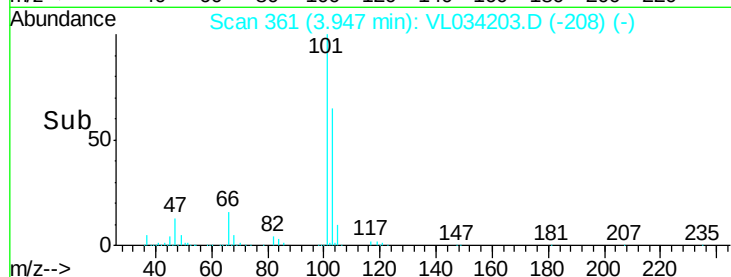
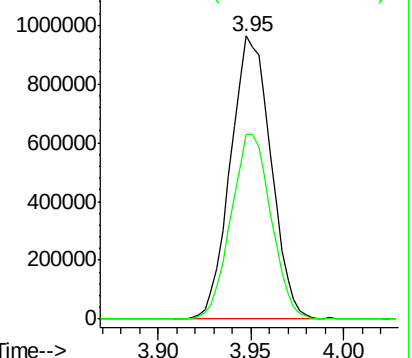
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.826 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL034203.D

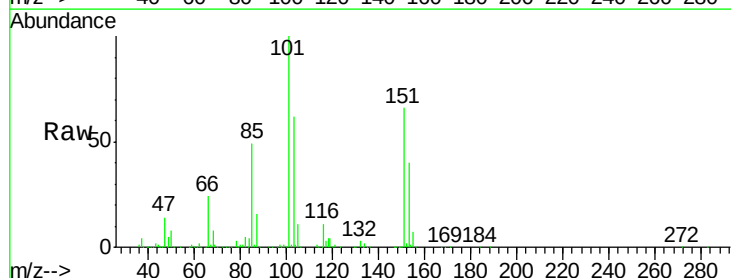
Acq: 24 Sep 2019 16:34

Tgt Ion:101 Resp: 969654

Ion Ratio Lower Upper

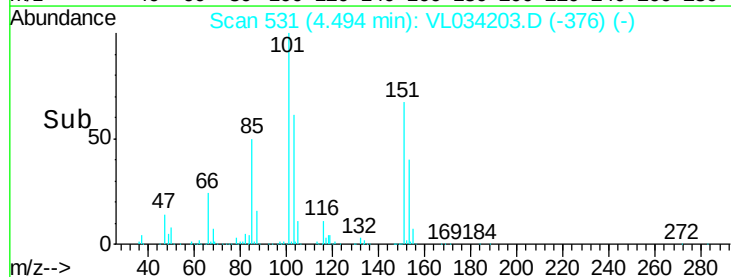
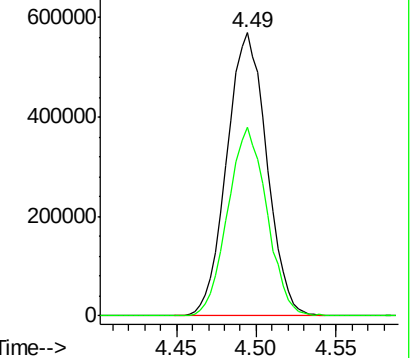
101 100

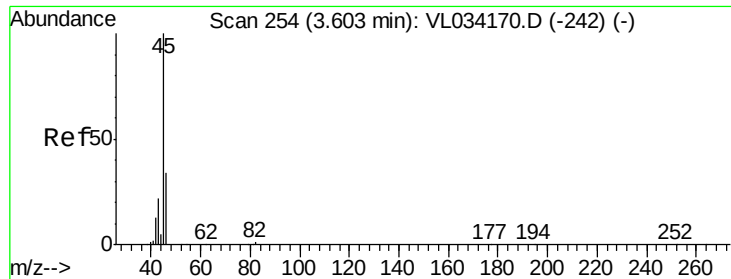
151 65.4 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





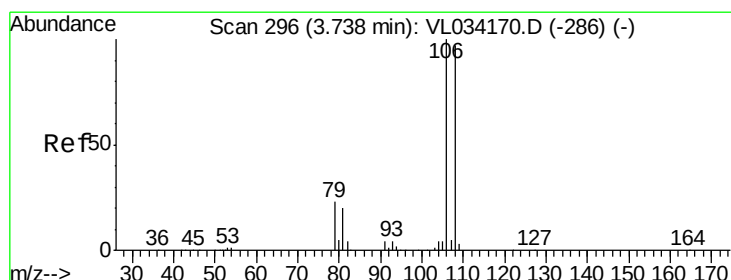
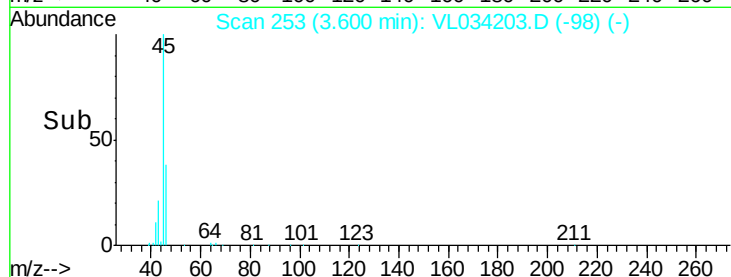
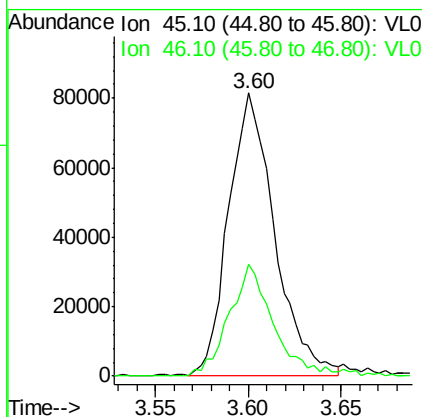
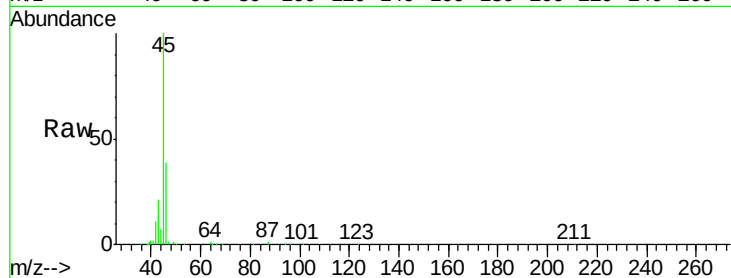
#13
Ethanol
Concen: 8.878 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	139481
Ion Ratio	100	Lower	Upper
46	38.9	15.5	61.9

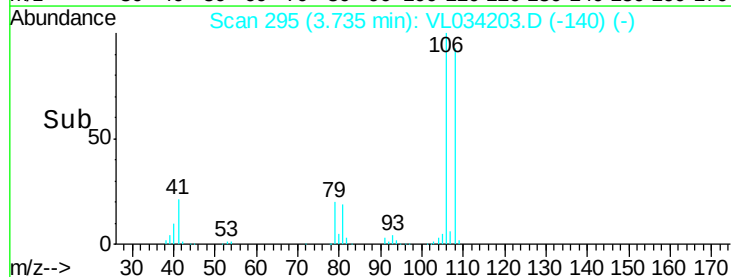
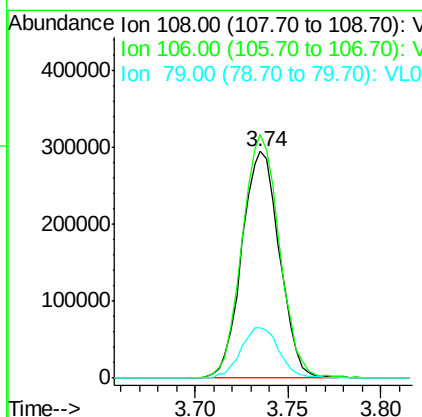
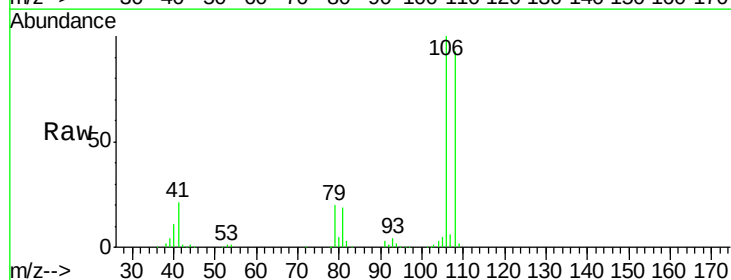
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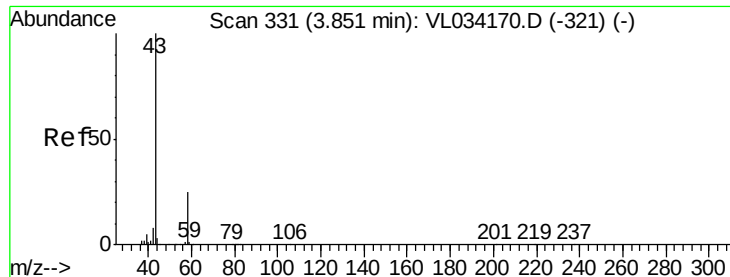
MMDadoda
9/26/2019 12:39:37 AM



#14
Bromoethene
Concen: 10.299 ppbv
RT: 3.74 min Scan# 295
Delta R.T. -0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion	108	Resp	415548
Ion Ratio	100	Lower	Upper
106	106.9	86.2	129.4
79	22.8	18.6	27.8





#15

Acetone

Concen: 8.293 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1246600

Ion Ratio Lower Upper

43 100

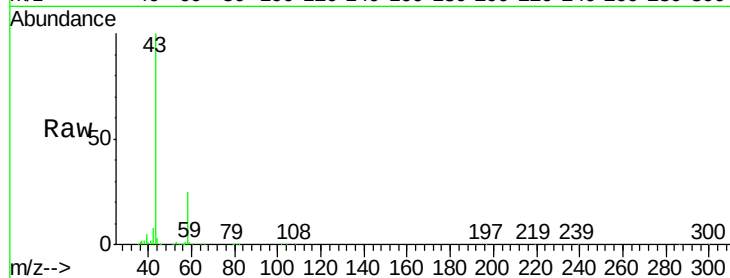
58 25.5 20.5 30.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

800000

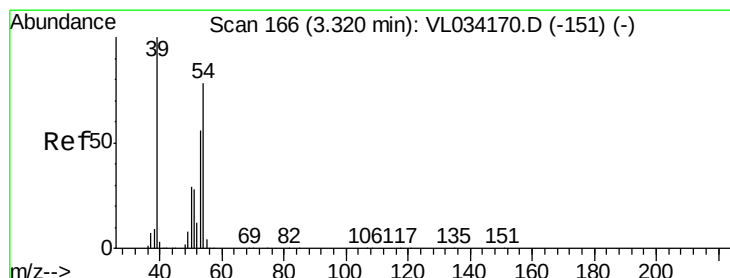
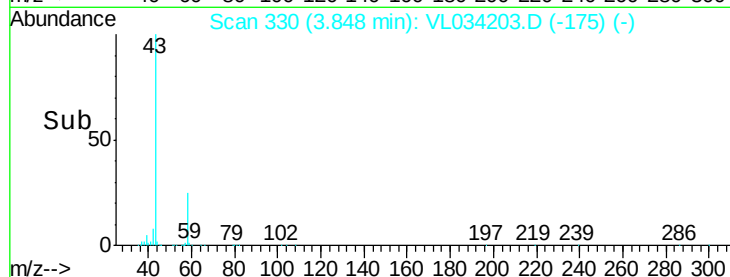
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.953 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL034203.D

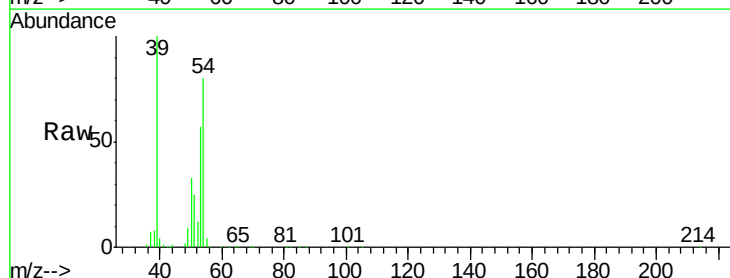
Acq: 24 Sep 2019 16:34

Tgt Ion: 39 Resp: 652951

Ion Ratio Lower Upper

39 100

54 79.3 63.4 95.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

500000

400000

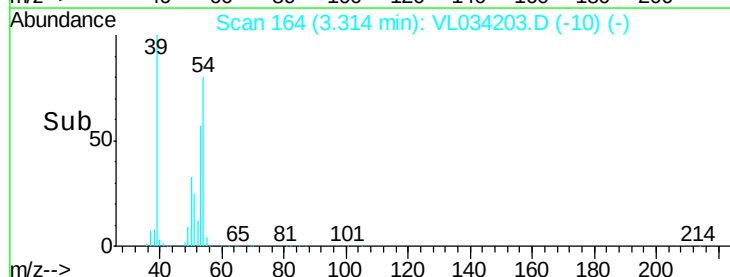
300000

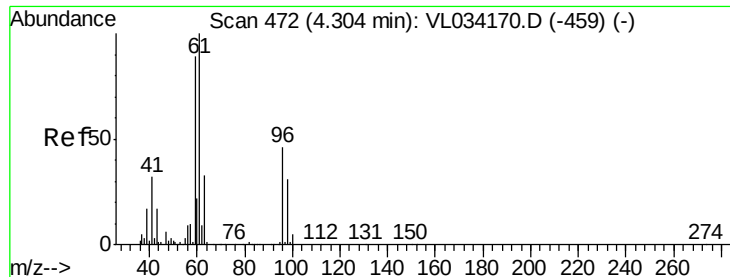
200000

100000

0

Time-->





#17

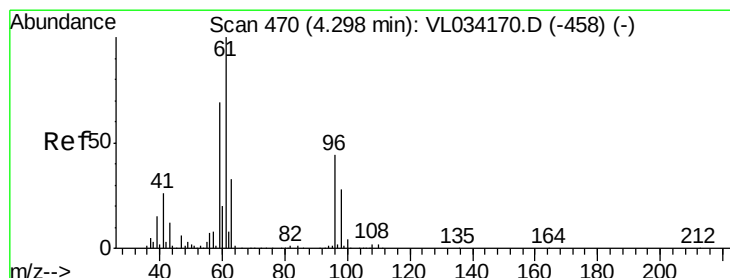
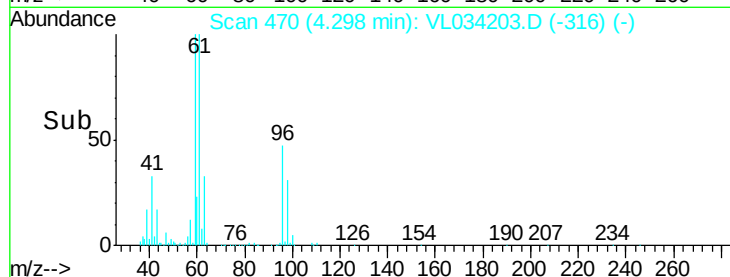
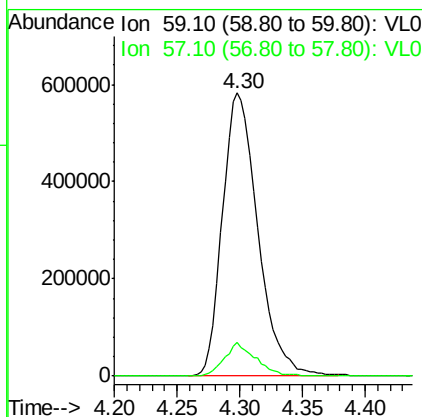
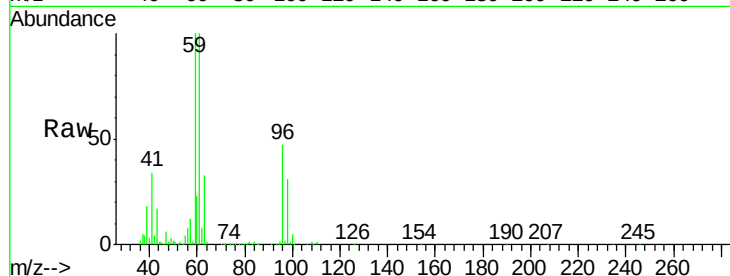
tert-Butyl alcohol
 Concen: 11.929 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1136147
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.7 13.1

Manual Integrations
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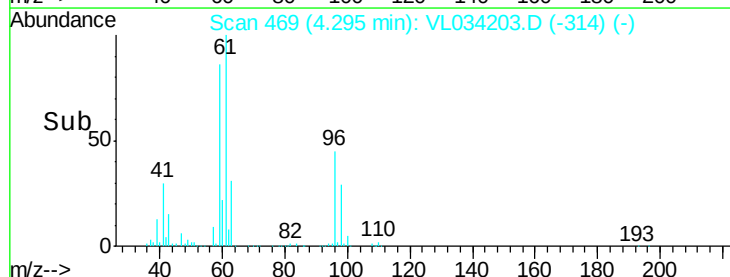
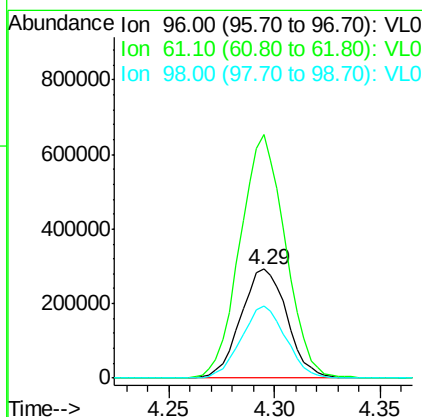
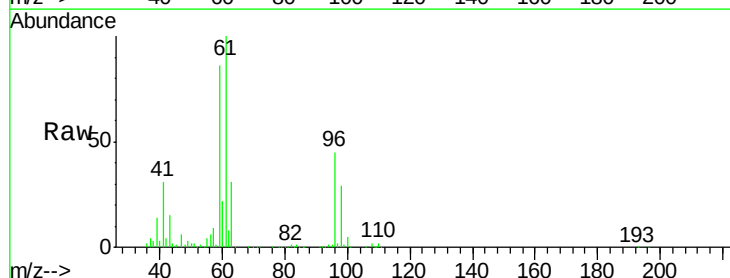
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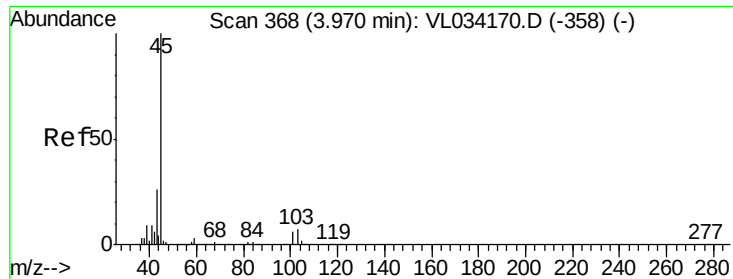


#18

1,1-Dichloroethene
 Concen: 10.247 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. -0.00 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion: 96 Resp: 441082
 Ion Ratio Lower Upper
 96 100
 61 223.4 183.3 274.9
 98 65.5 51.4 77.2





#19

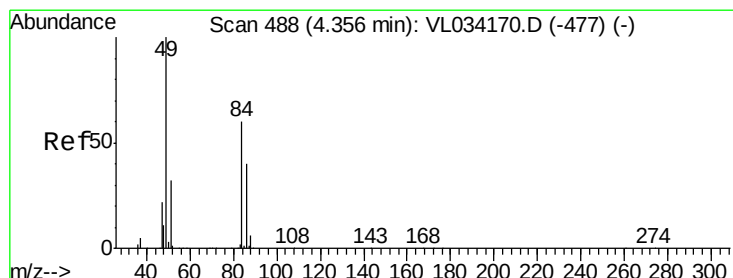
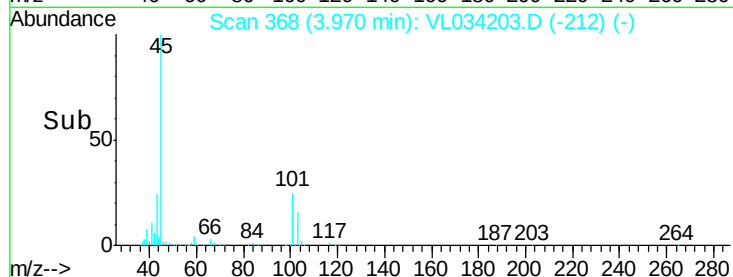
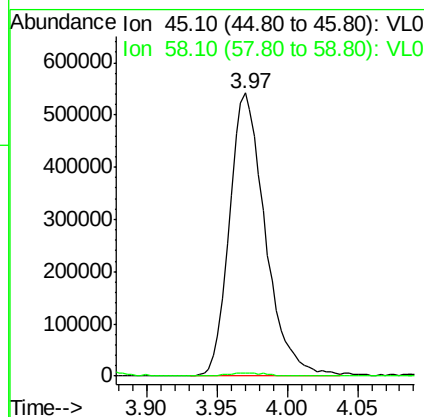
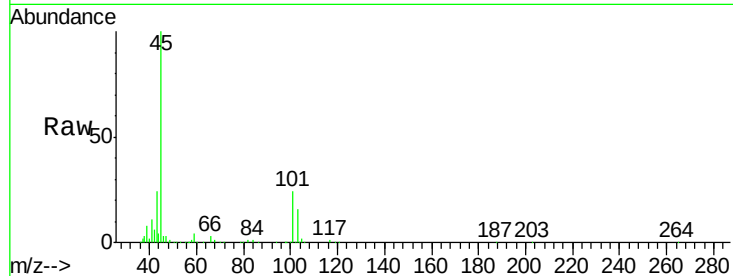
Isopropyl Alcohol
 Concen: 10.401 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.00 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.4	1.4	2.0#

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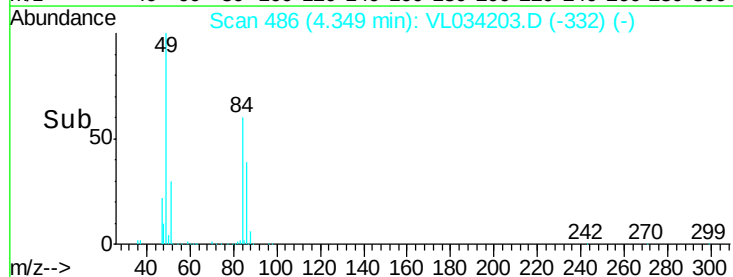
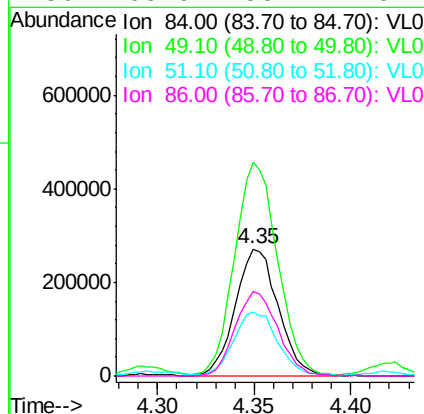
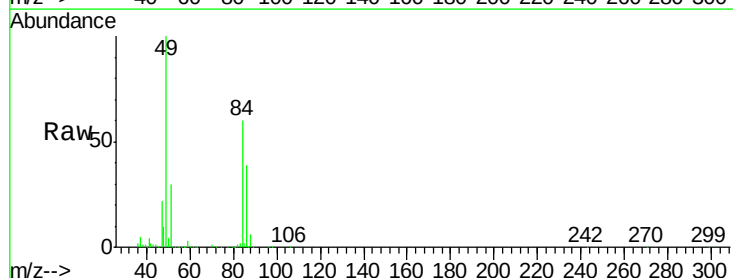
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 9/26/2019 12:39:37 AM

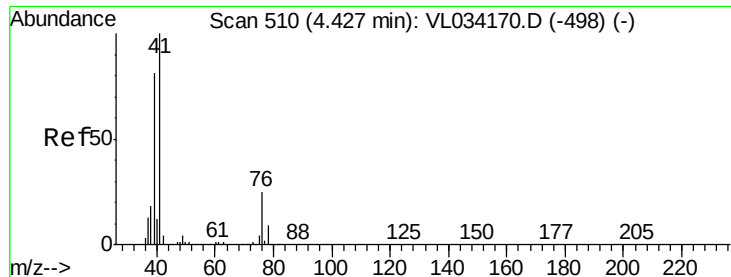


#20

Methylene Chloride
 Concen: 9.604 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
84	100		
49	166.6	133.8	200.8
51	49.7	43.6	65.4
86	65.9	53.1	79.7





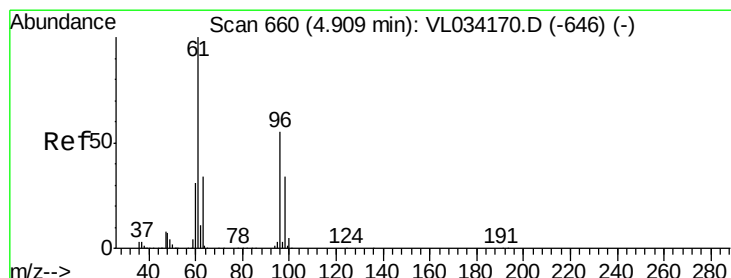
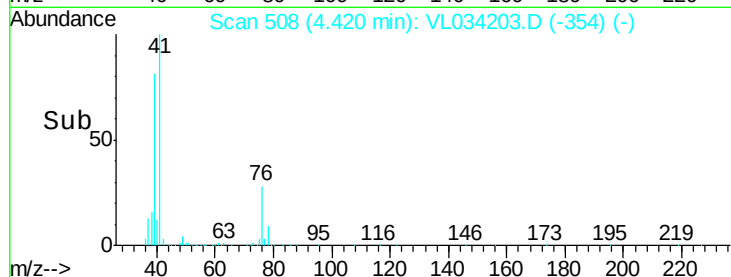
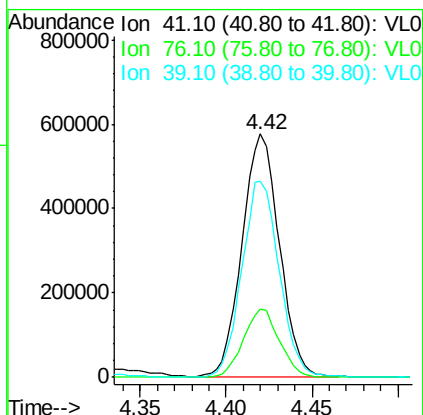
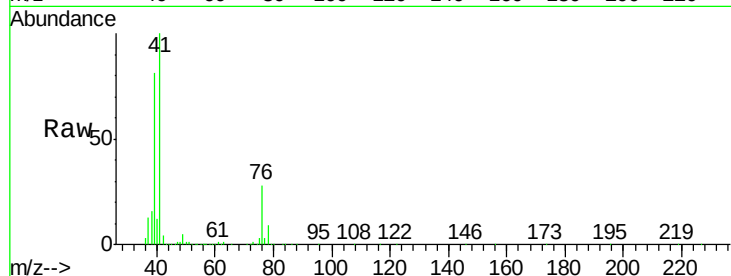
#21
Allvl Chloride
Concen: 10.130 ppbv
RT: 4.42 min Scan# 508
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.4	21.8	32.6
39	81.6	64.8	97.2

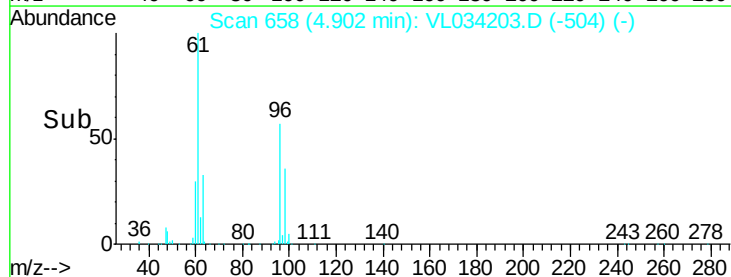
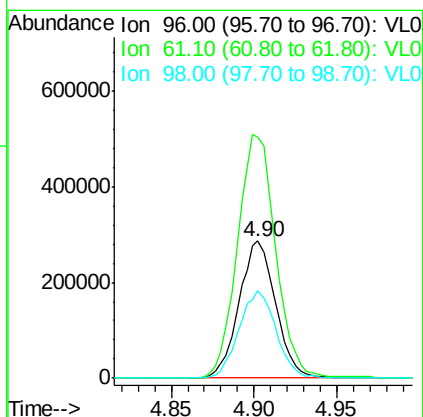
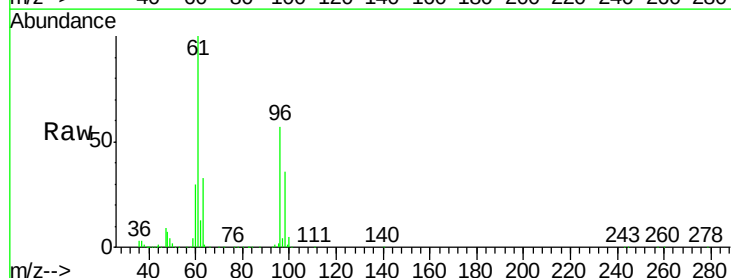
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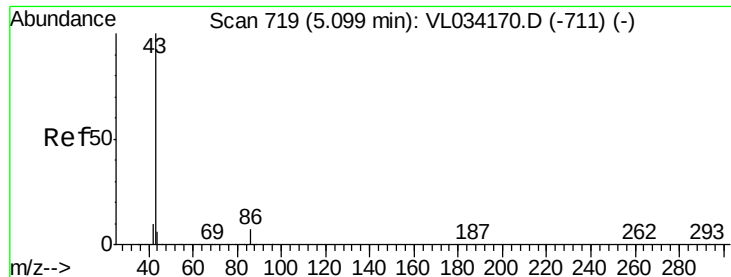
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#22
trans-1,2-Dichloroethene
Concen: 10.215 ppbv
RT: 4.90 min Scan# 658
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.1	145.5	218.3
98	64.2	49.9	74.9





#23

Vinyl Acetate

Concen: 9.737 ppbv

RT: 5.09 min Scan# 717

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2156834

Ion Ratio Lower Upper

43 100

86 6.1 5.1 7.7

42 11.0 8.6 12.8

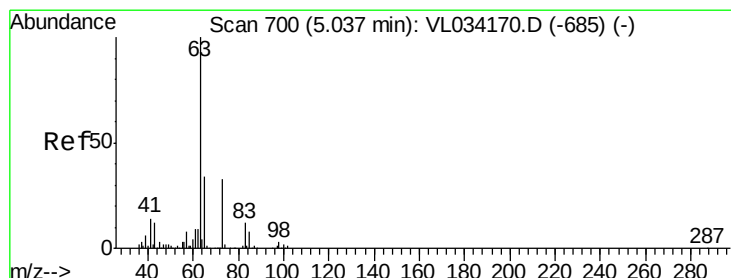
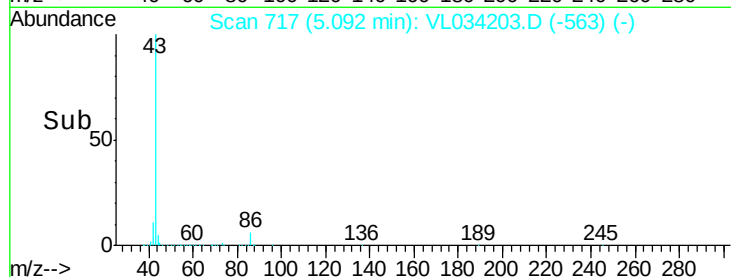
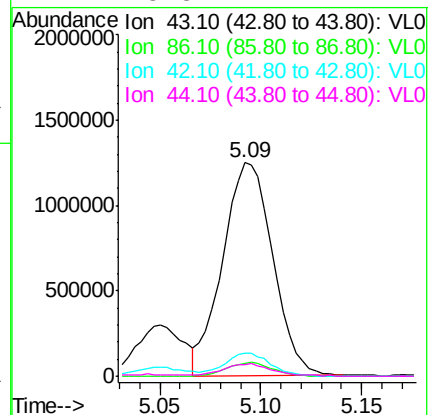
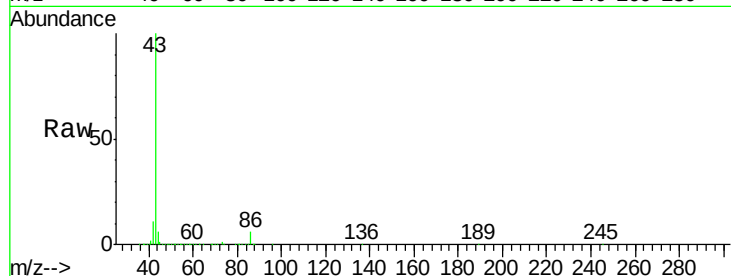
44 5.3 4.7 7.1

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#24

1,1-Dichloroethane

Concen: 9.408 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

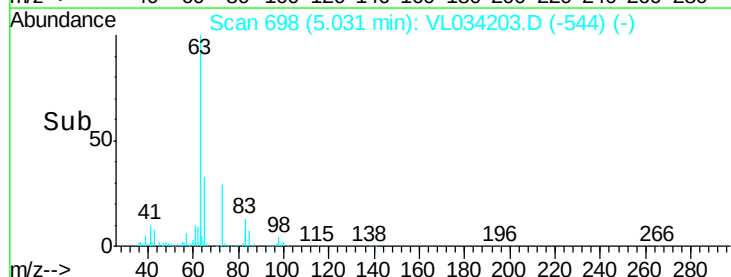
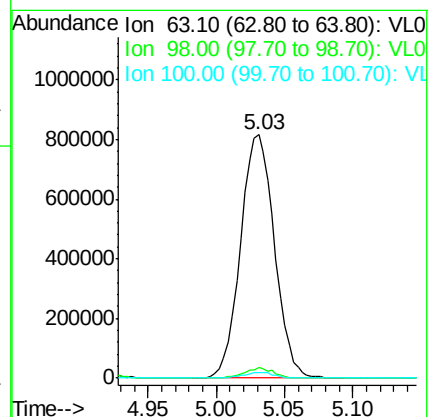
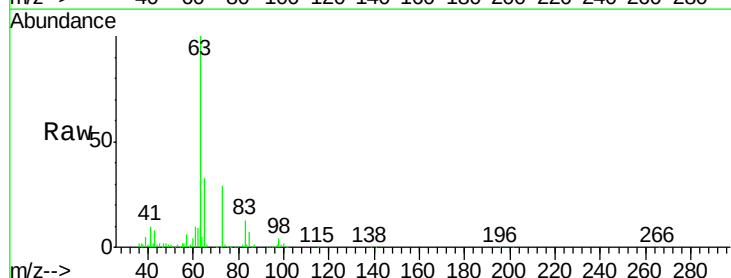
Tgt Ion: 63 Resp: 1403196

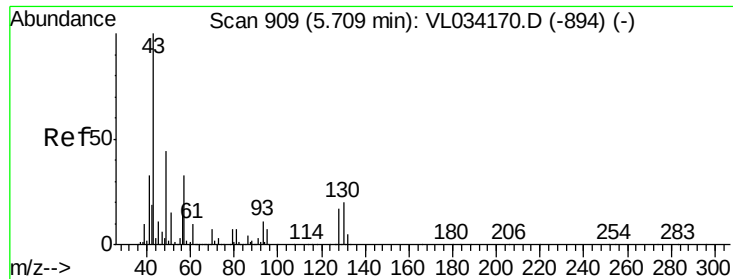
Ion Ratio Lower Upper

63 100

98 4.4 1.8 5.3

100 2.3 1.0 3.0





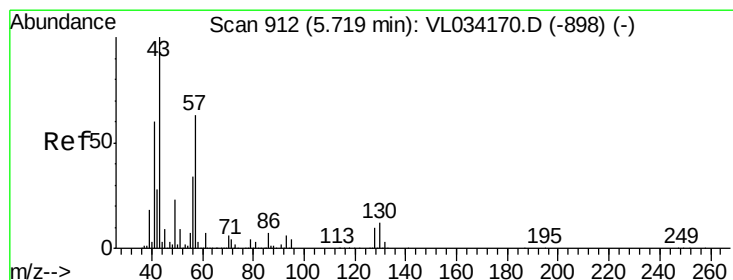
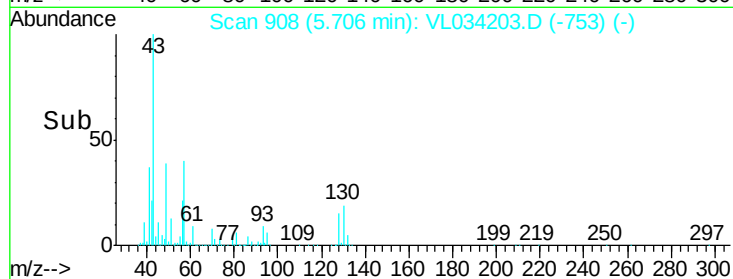
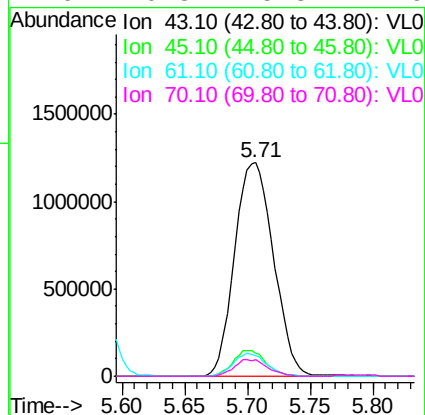
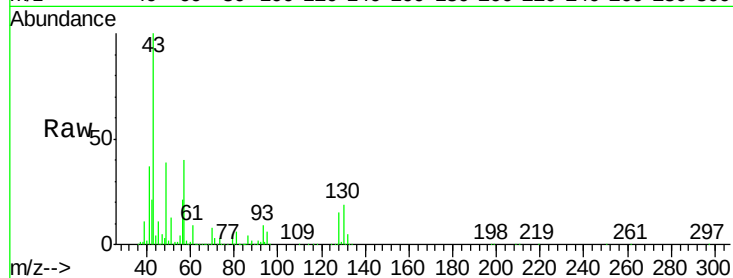
#25
Ethyl Acetate
Concen: 9.271 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.4	12.6	
61	9.1	7.2	10.8	
70	6.8	5.3	7.9	

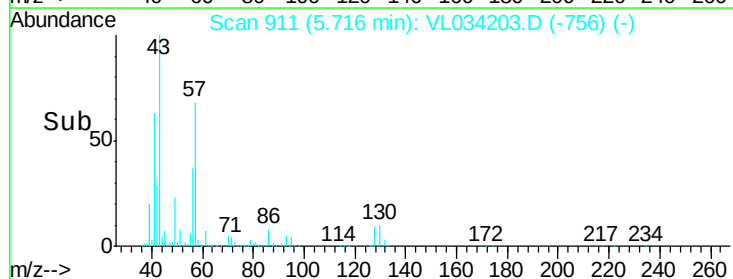
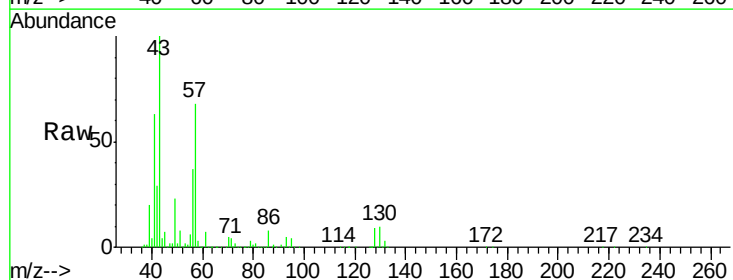
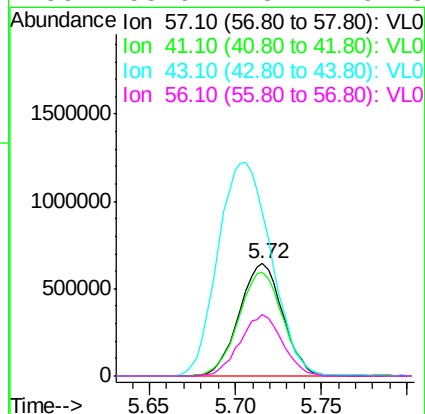
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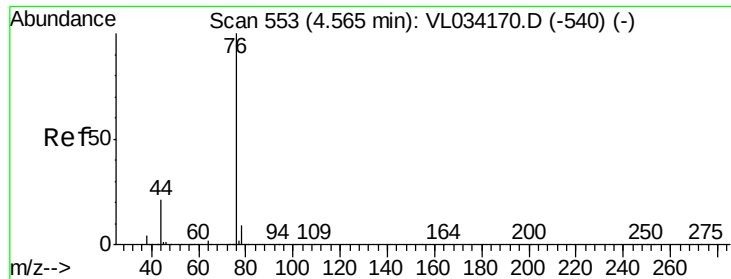
MMDadoda
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#26
Hexane
Concen: 9.567 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	94.9	78.5	117.7	
43	234.1	189.5	284.3	
56	53.6	43.2	64.8	





#27

Carbon Disulfide

Concen: 10.839 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1181990

Ion Ratio Lower Upper

76 100

44 21.2 17.6 26.4

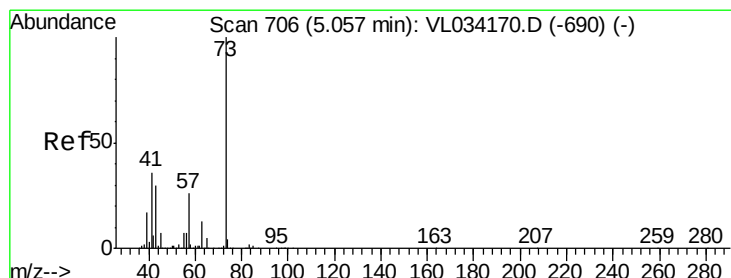
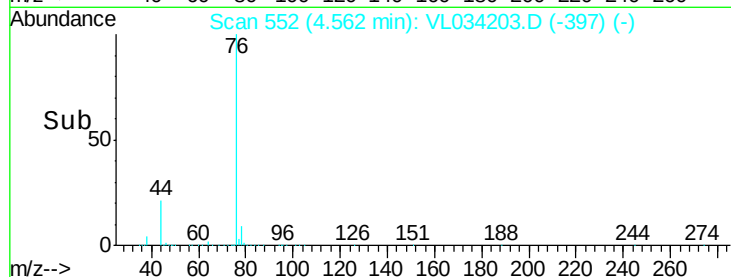
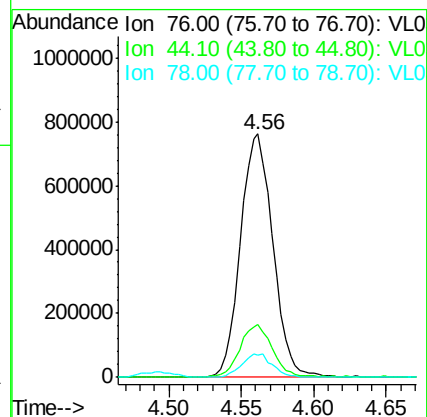
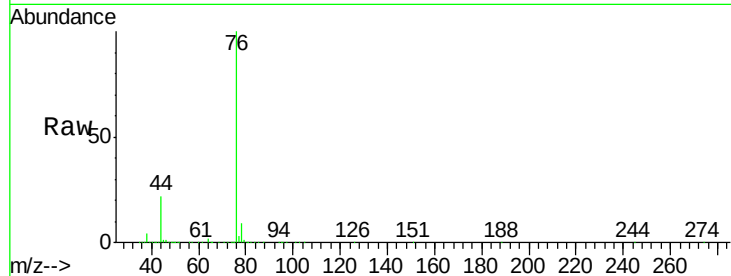
78 9.2 7.6 11.4

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.302 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034203.D

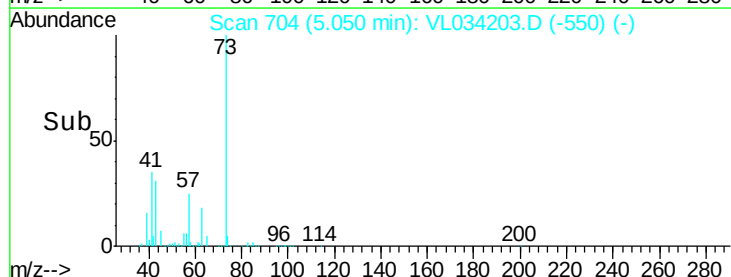
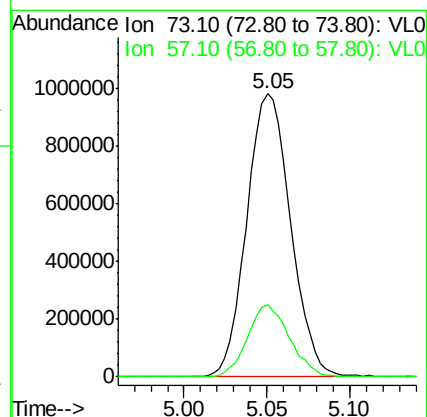
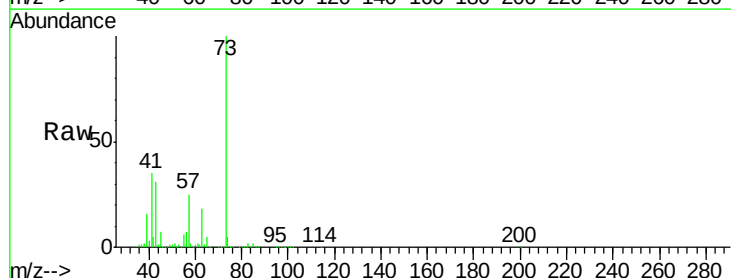
Acq: 24 Sep 2019 16:34

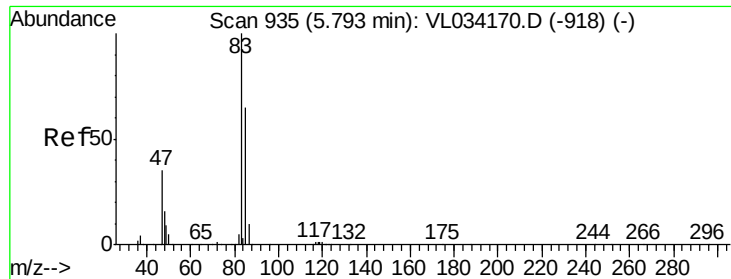
Tgt Ion: 73 Resp: 1809227

Ion Ratio Lower Upper

73 100

57 24.5 20.2 30.2





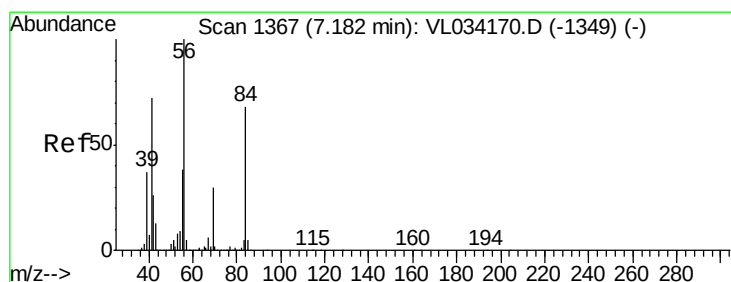
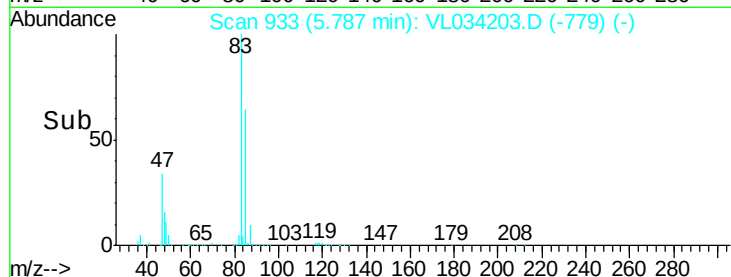
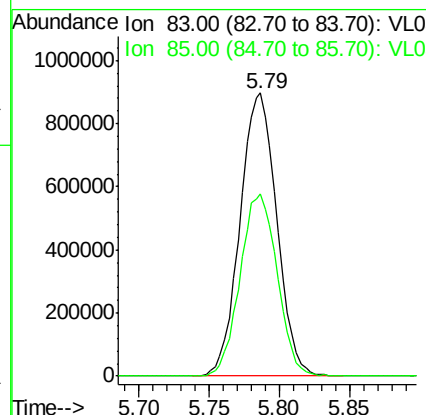
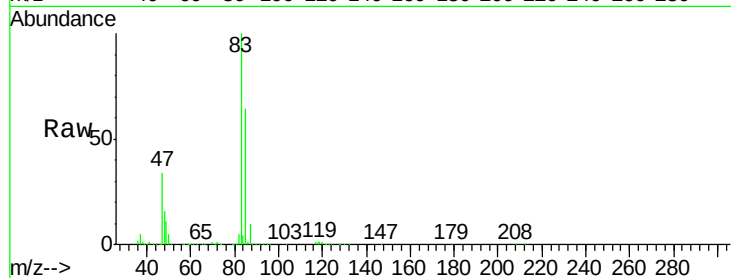
#29
Chloroform
Concen: 9.681 ppbv
RT: 5.79 min Scan# 933
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	83	Resp	1635831
Ion Ratio	Lower	Upper	
83	100		
85	64.4	52.3	78.5

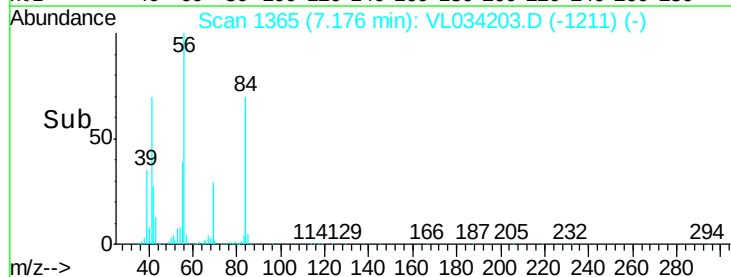
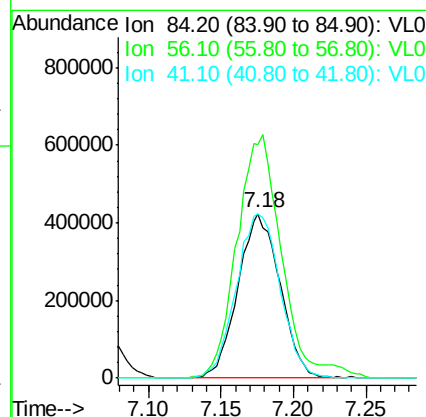
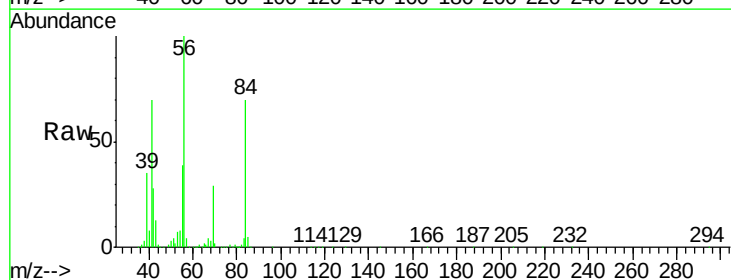
Manual Integrations
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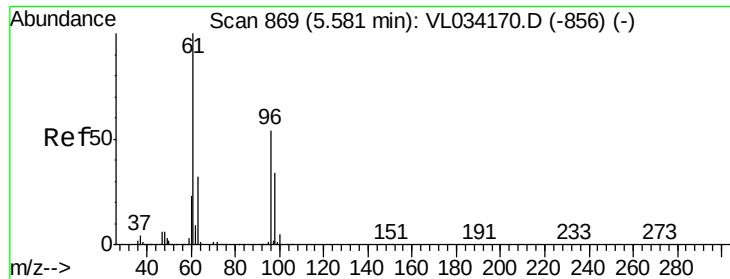
MMDadoda
9/26/2019 12:39:37 AM



#30
Cyclohexane
Concen: 9.989 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion	84	Resp	852707
Ion Ratio	Lower	Upper	
84	100		
56	158.3	126.2	189.2
41	104.8	85.8	128.8





#31

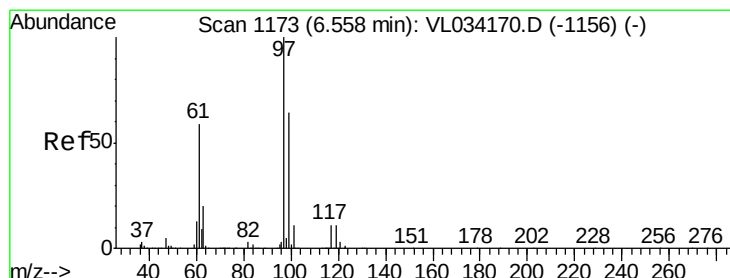
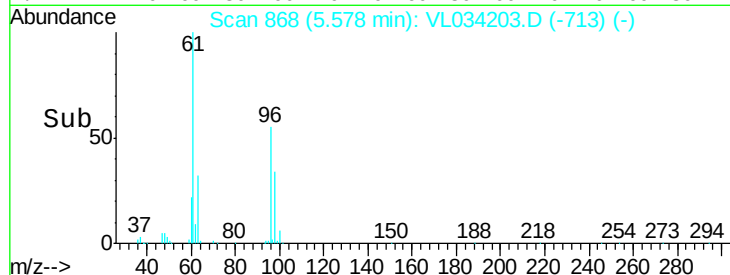
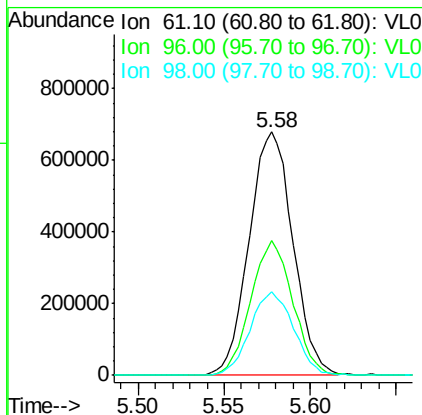
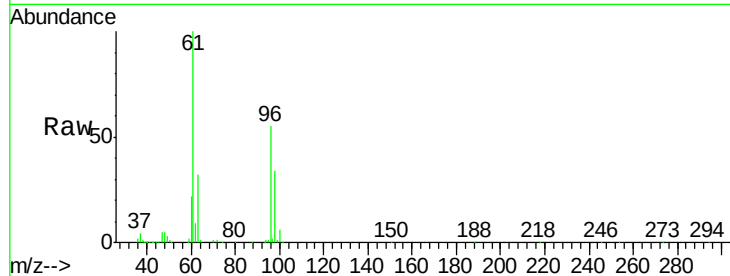
cis-1,2-Dichloroethene
 Concen: 9.919 ppbv
 RT: 5.58 min Scan# 868
 Delta R.T. -0.00 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	55.1	43.0	64.4
98	34.4	27.2	40.8

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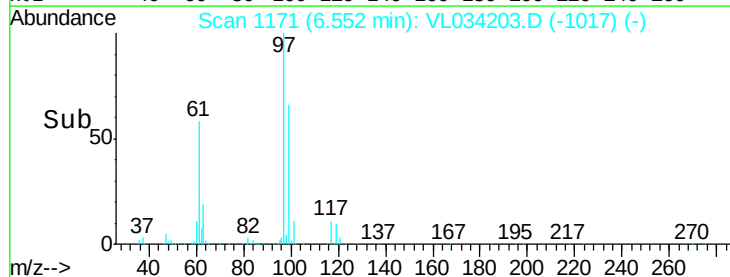
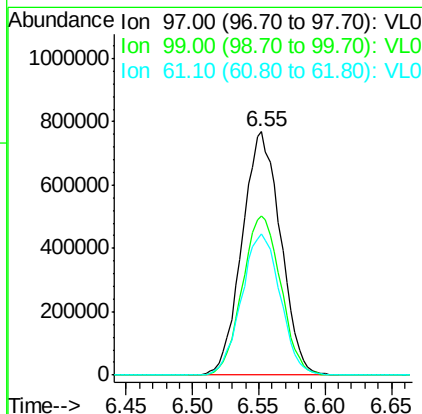
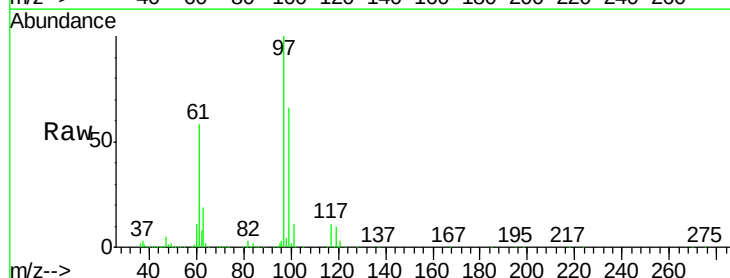
MMDadoda
 9/26/2019 12:39:37 AM

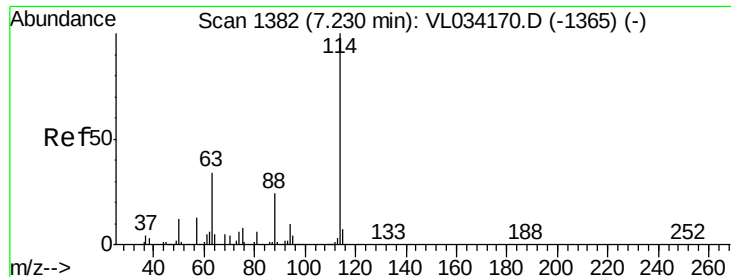


#32

1,1,1-Trichloroethane
 Concen: 9.526 ppbv
 RT: 6.55 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.4	77.2
61	58.6	48.4	72.6





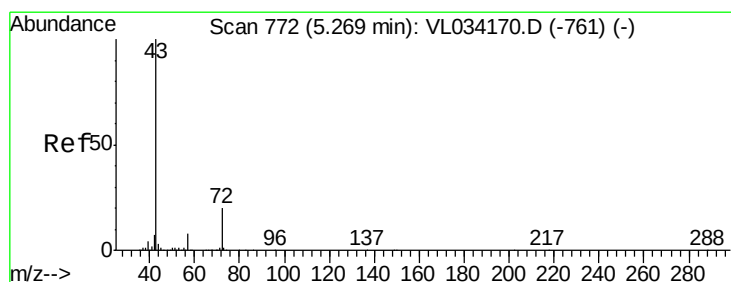
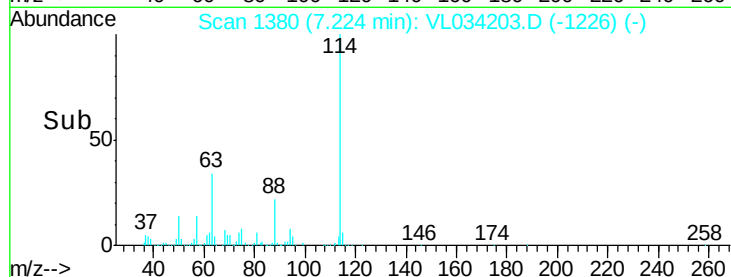
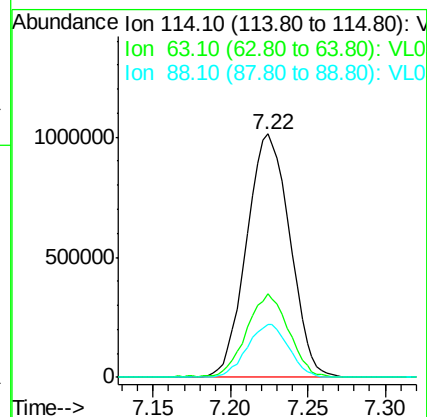
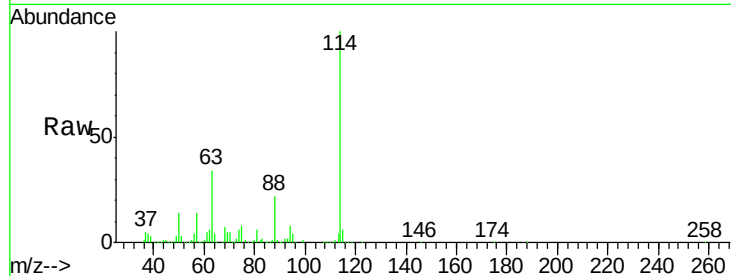
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 1979466
 Ion Ratio Lower Upper
 114 100
 63 33.7 27.8 41.6
 88 20.9 17.1 25.7

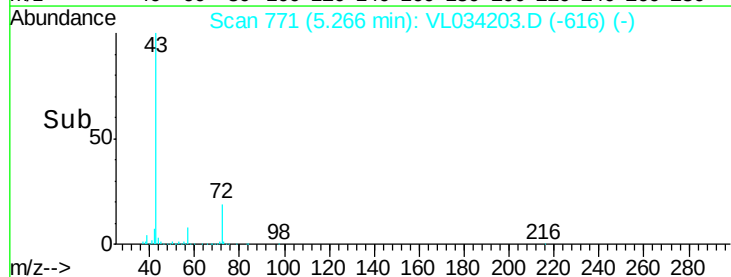
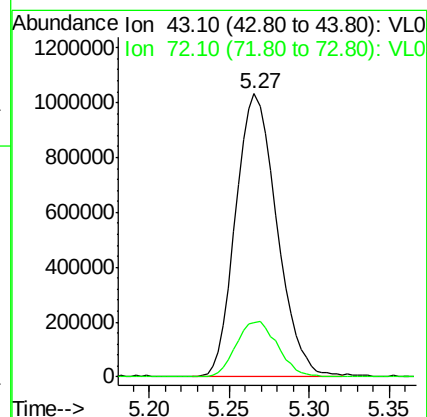
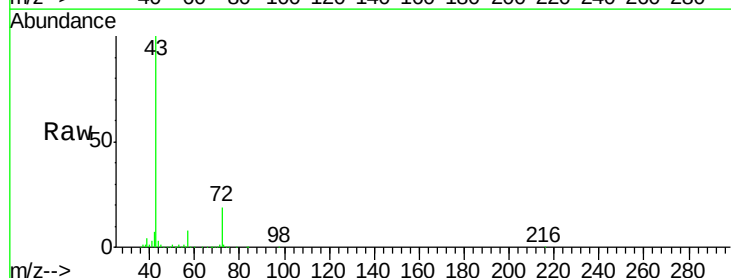
Manual Integrations
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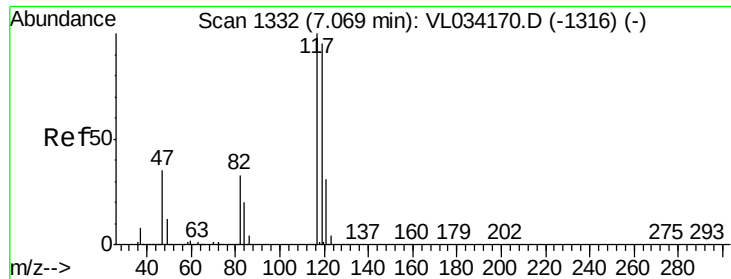
MMDadoda
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#34
 2-Butanone
 Concen: 8.966 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.00 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion: 43 Resp: 1812155
 Ion Ratio Lower Upper
 43 100
 72 19.9 15.0 22.6





#35

Carbon Tetrachloride

Concen: 9.263 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 1523307

Ion Ratio Lower Upper

117 100

119 95.0 75.8 113.6

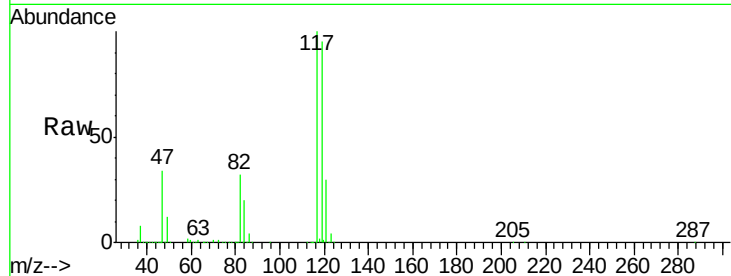
121 30.2 25.0 37.6

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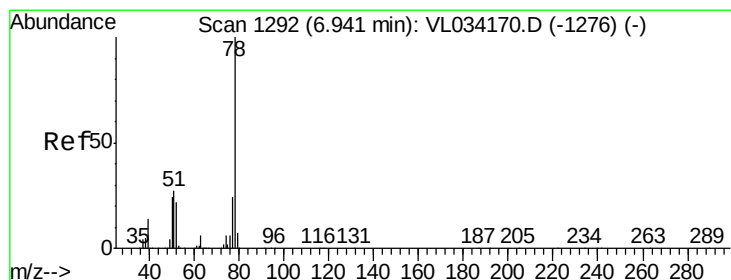
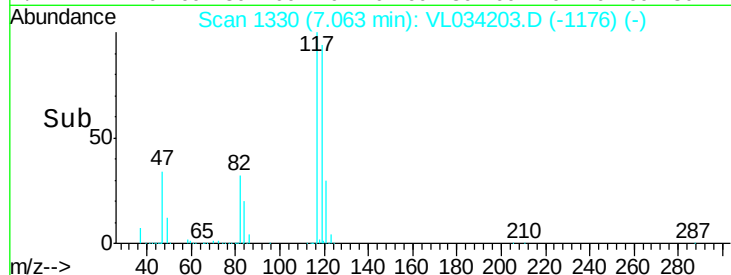
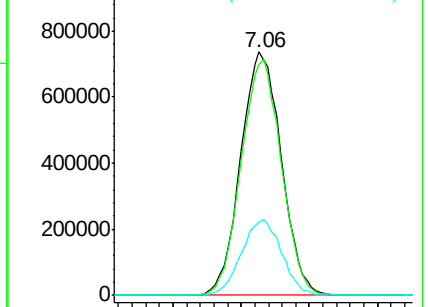
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.403 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

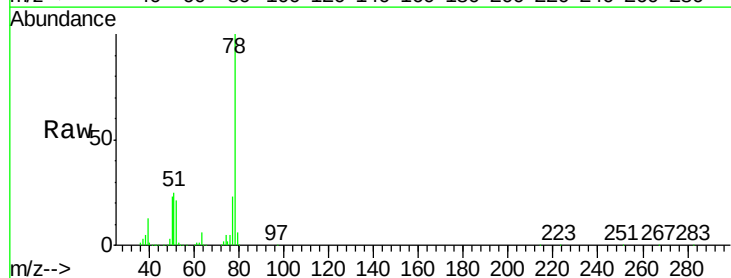
Tgt Ion: 78 Resp: 2055776

Ion Ratio Lower Upper

78 100

77 22.9 19.0 28.4

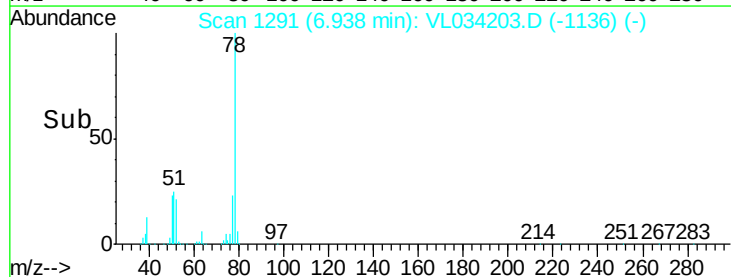
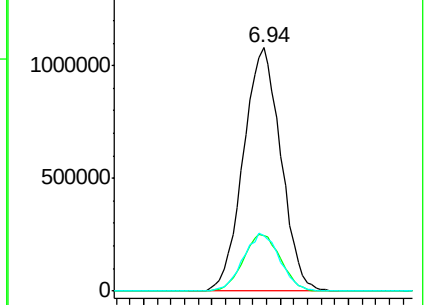
50 23.0 18.9 28.3

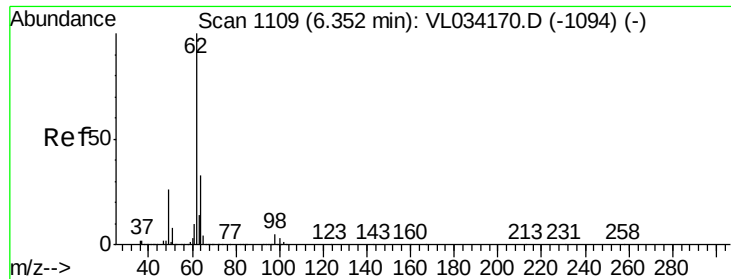


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.166 ppbv

RT: 6.35 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 1425271

Ion Ratio Lower Upper

62 100

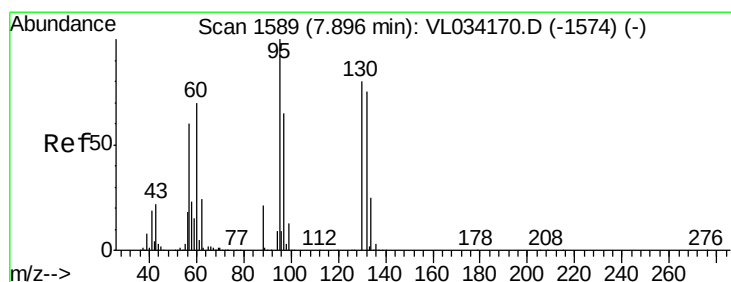
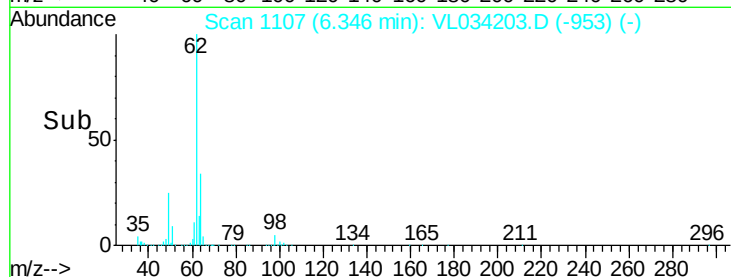
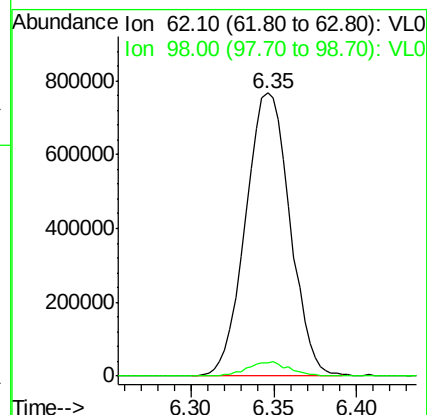
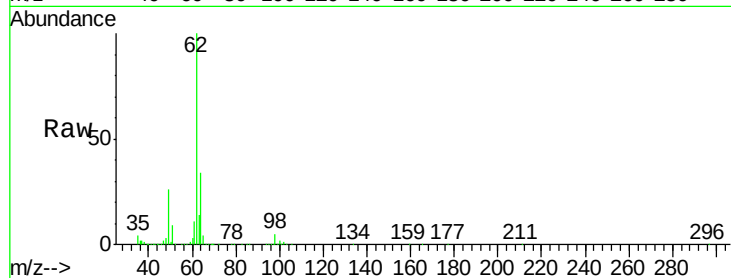
98 4.8 3.8 5.8

Manual Integrations

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#38

Trichloroethene

Concen: 8.853 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion: 130 Resp: 691570

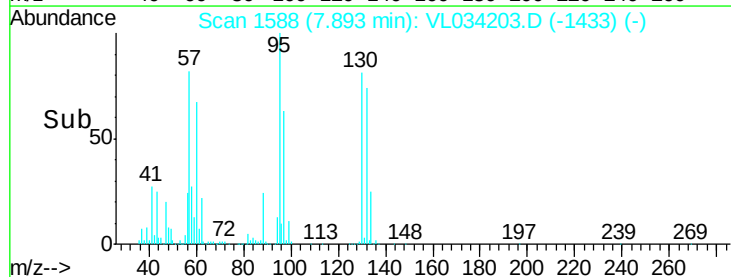
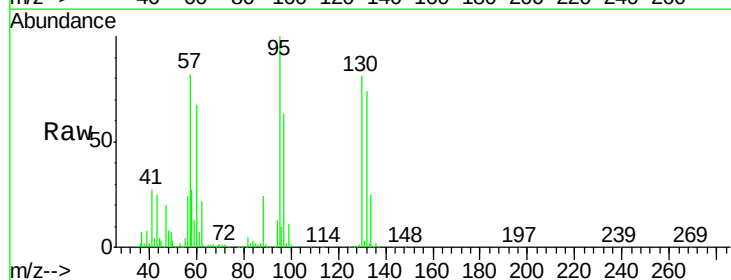
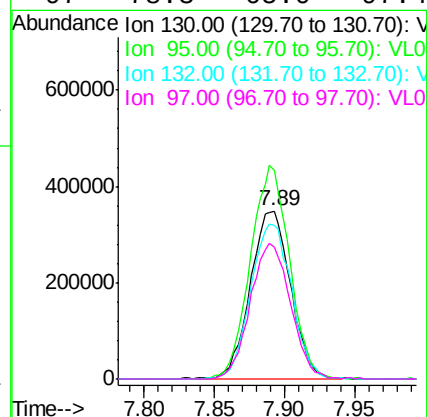
Ion Ratio Lower Upper

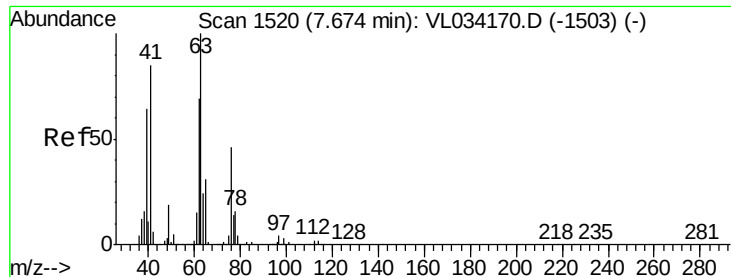
130 100

95 124.3 99.8 149.6

132 91.5 75.2 112.8

97 78.3 65.0 97.4





#39

1,2-Dichloropropane

Concen: 9.392 ppbv

RT: 7.67 min Scan# 1518

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

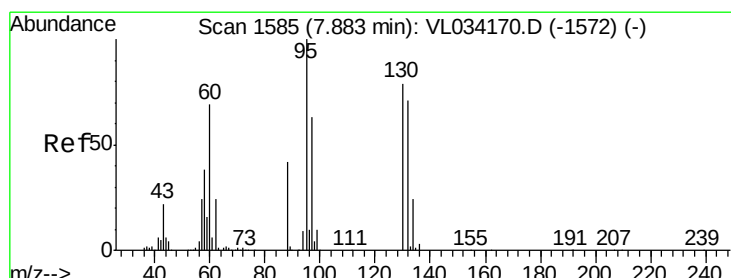
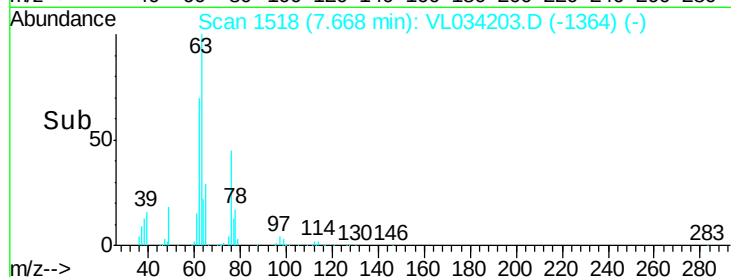
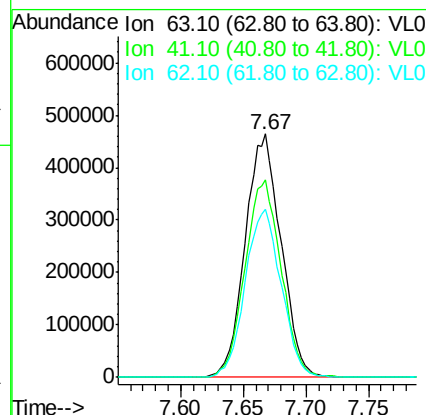
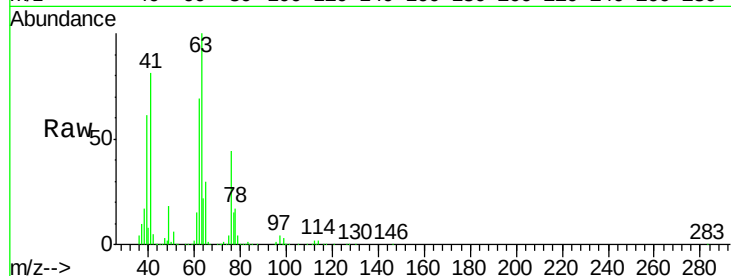
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	922548
Ion Ratio	Lower	Upper	
63	100		
41	81.0	68.4	102.6
62	69.0	55.4	83.2

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#40

1,4-Dioxane

Concen: 9.734 ppbv

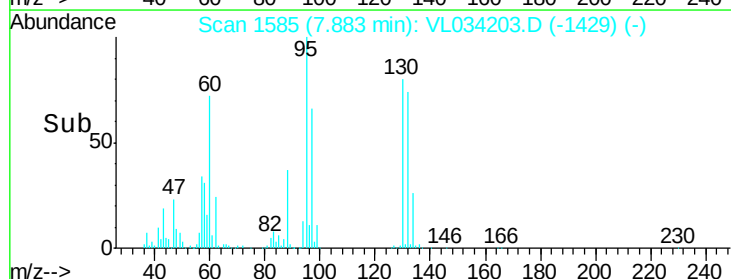
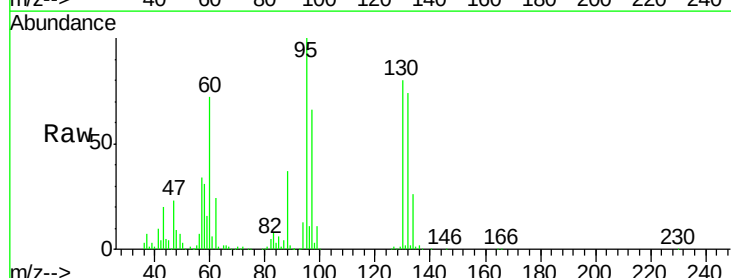
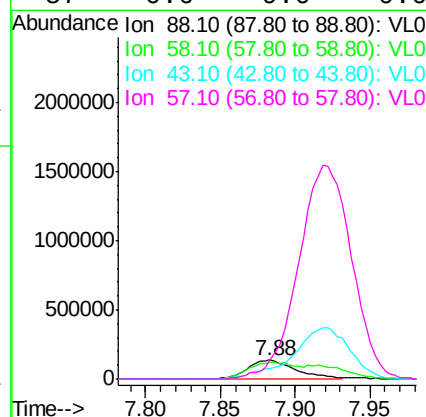
RT: 7.88 min Scan# 1585

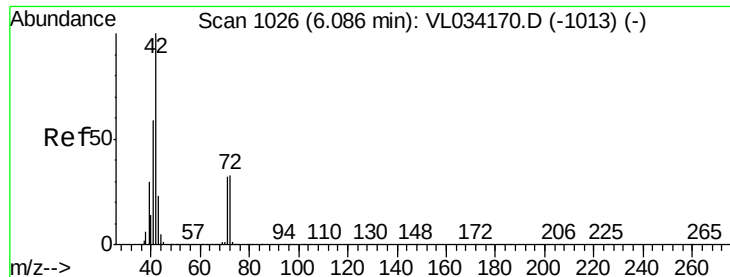
Delta R.T. 0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion:	88	Resp:	309417
Ion Ratio	Lower	Upper	
88	100		
58	149.2	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.741 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

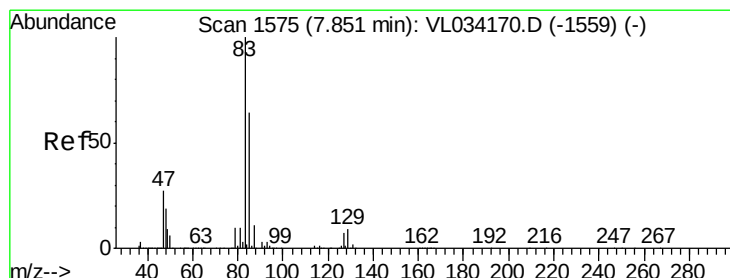
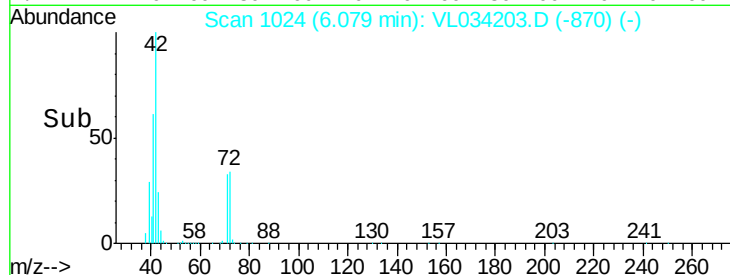
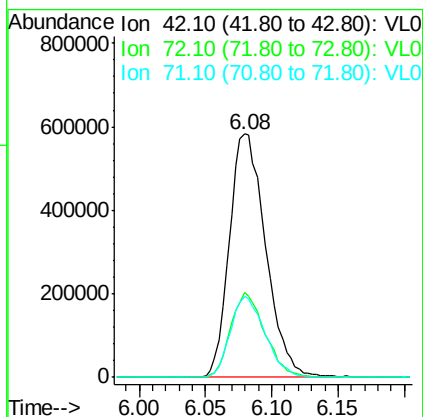
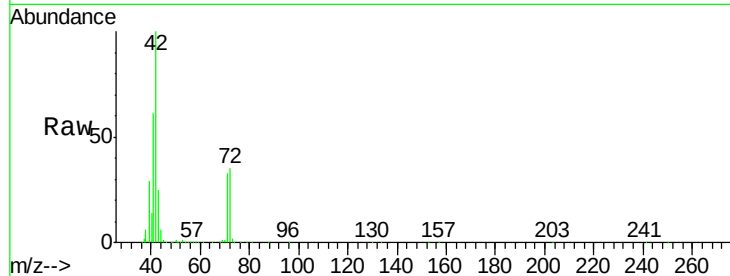
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.0	26.6	40.0
71	32.0	25.1	37.7

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.582 ppbv

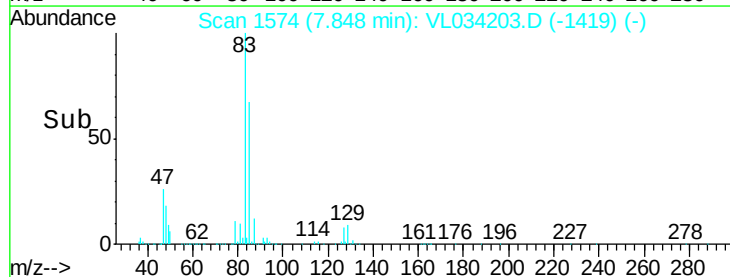
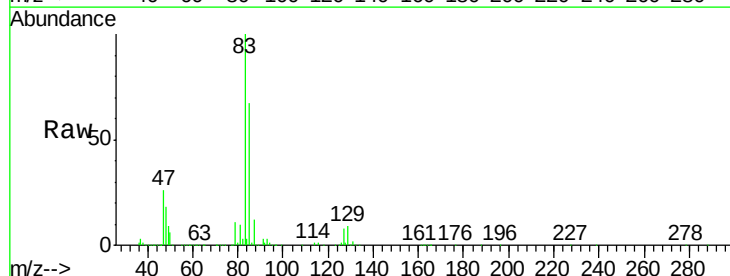
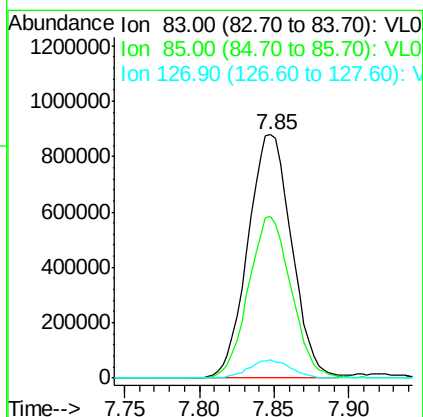
RT: 7.85 min Scan# 1574

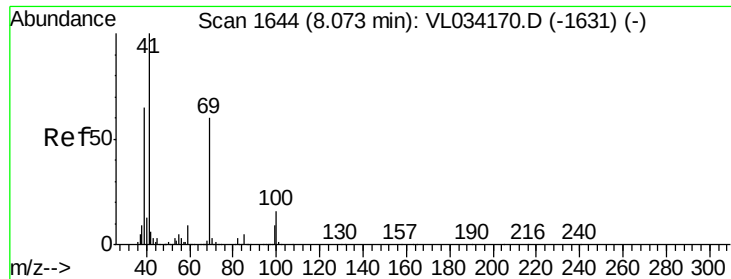
Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.4	77.0
127	7.8	5.5	8.3





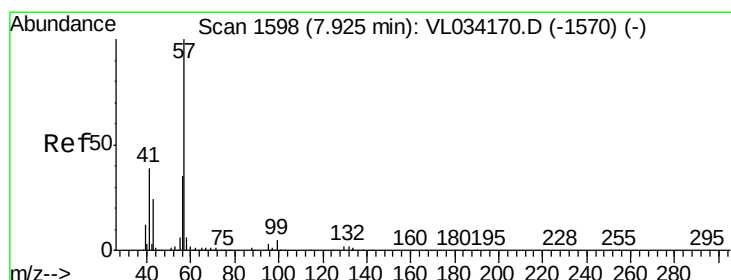
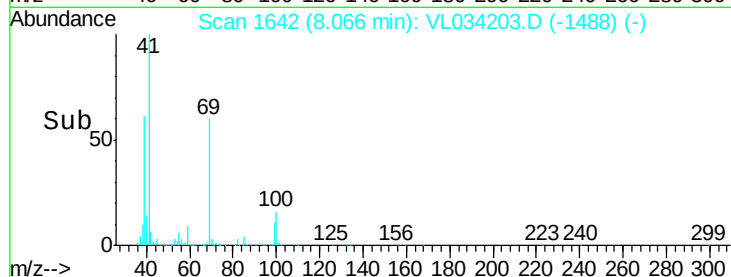
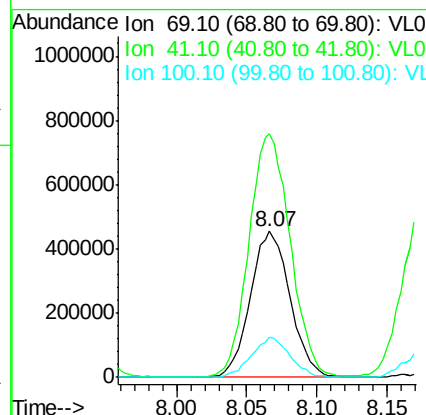
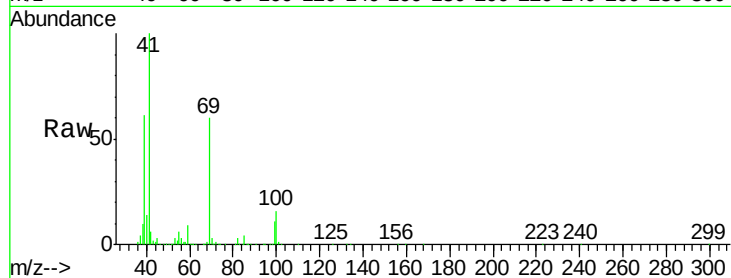
#43
Methyl Methacrylate
Concen: 9.921 ppbv
RT: 8.07 min Scan# 1642
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleID :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	173.4	140.4	210.6
100	26.7	21.9	32.9

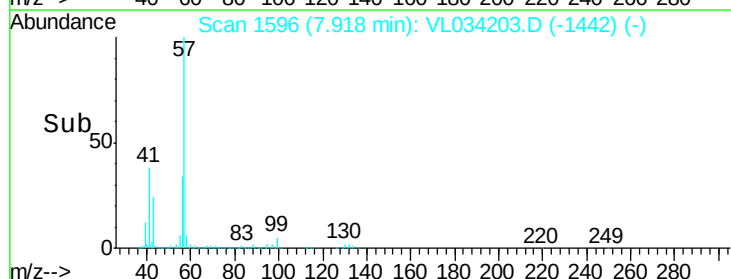
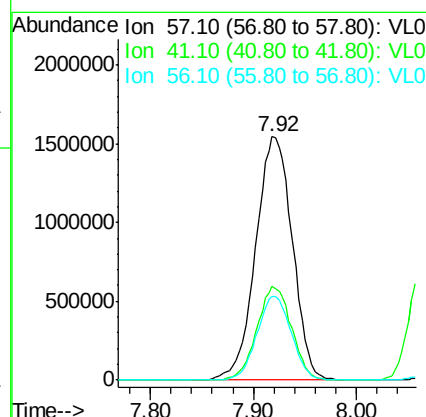
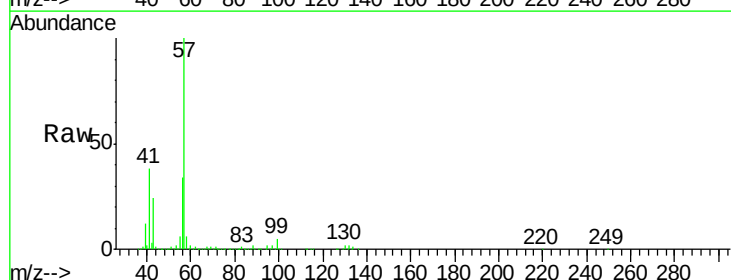
Manual Integrations
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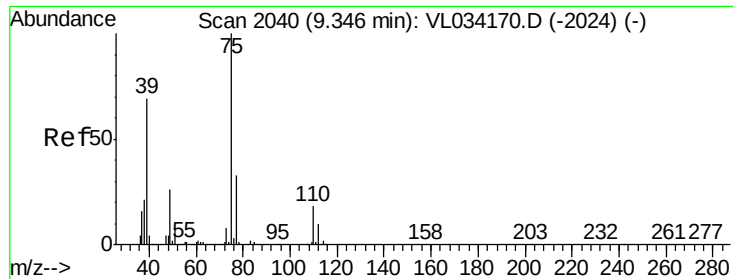
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.051 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.2	29.8	44.6
56	32.3	25.9	38.9





#45

t-1,3-Dichloropropene

Concen: 10.929 ppbv

RT: 9.34 min Scan# 2039

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1167026

Ion Ratio Lower Upper

75 100

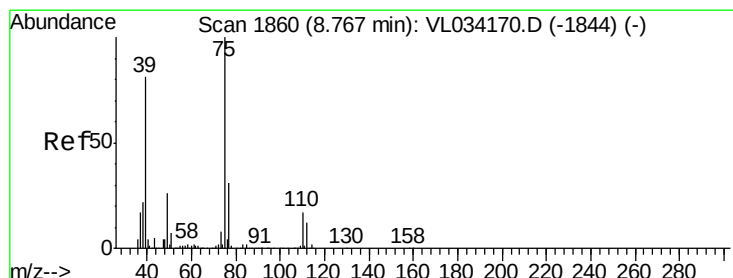
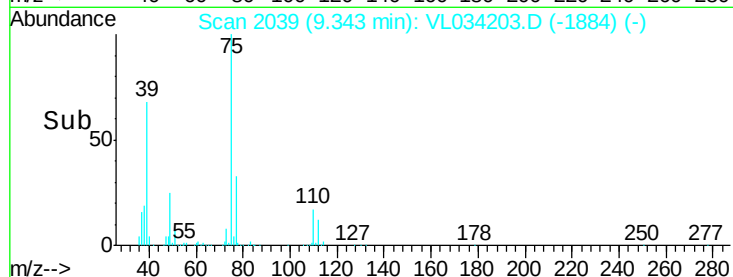
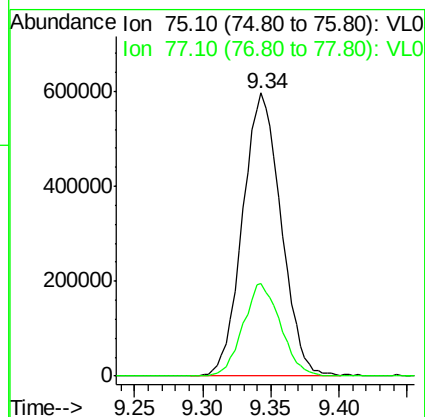
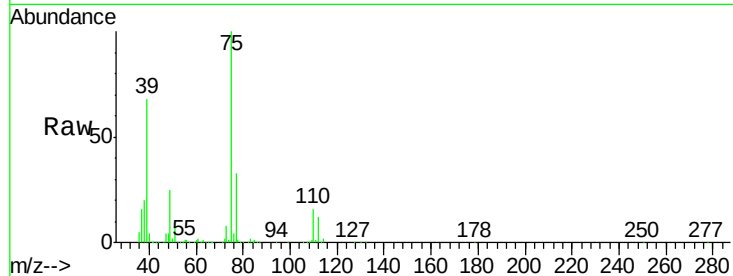
77 32.9 26.2 39.2

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#46

cis-1,3-Dichloropropene

Concen: 10.266 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

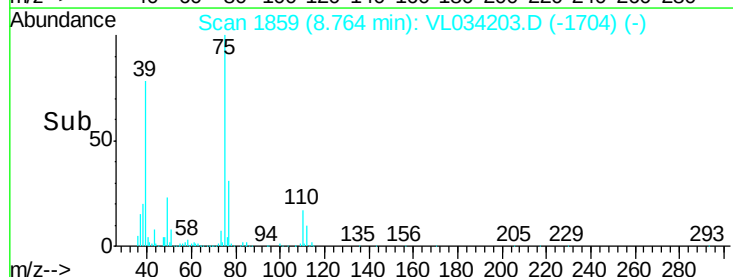
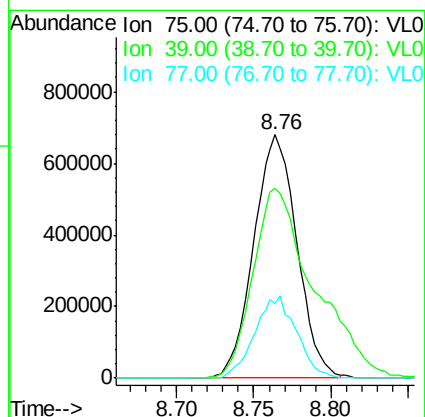
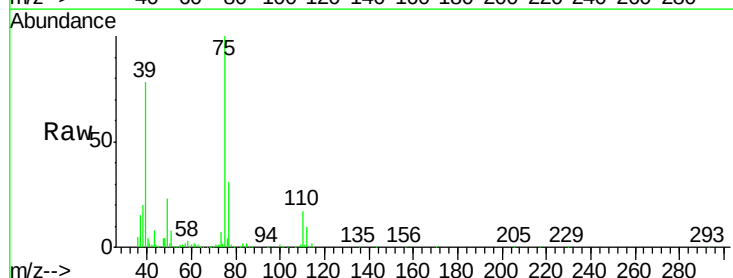
Tgt Ion: 75 Resp: 1318609

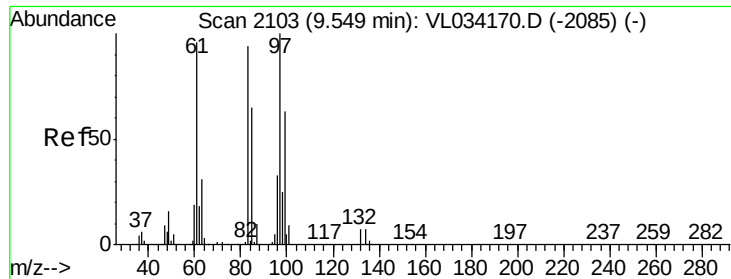
Ion Ratio Lower Upper

75 100

39 77.9 65.0 97.4

77 30.5 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 9.257 ppbv

RT: 9.54 min Scan# 2101

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

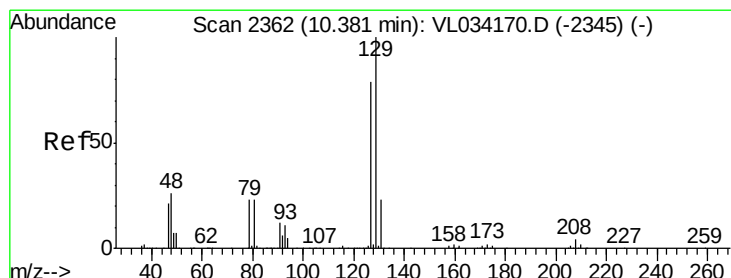
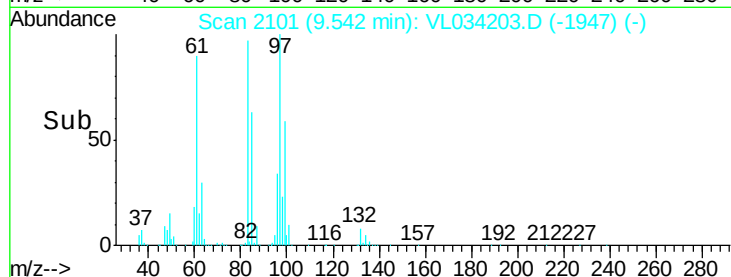
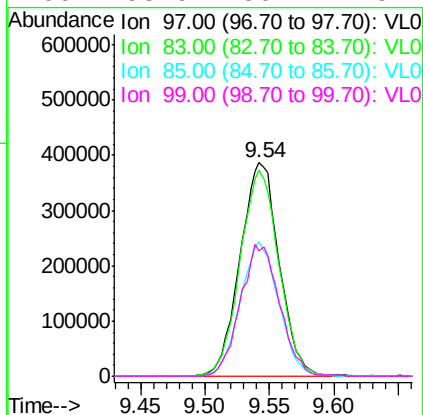
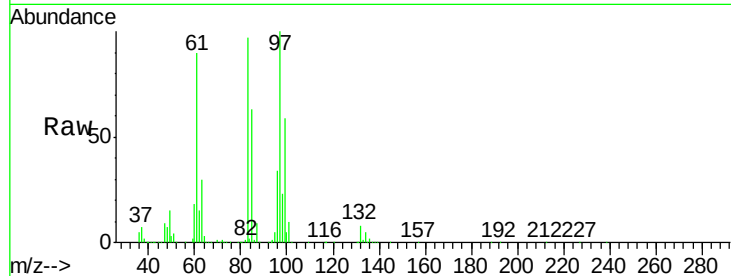
ClientSampleId :

VSTDCCC010EC

Tot Ion:	97	Resp:	816521
Ion Ratio	Lower	Upper	
97	100		
83	96.7	75.3	112.9
85	62.7	52.1	78.1
99	58.9	50.2	75.2

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#48

Dibromochloromethane

Concen: 9.686 ppbv

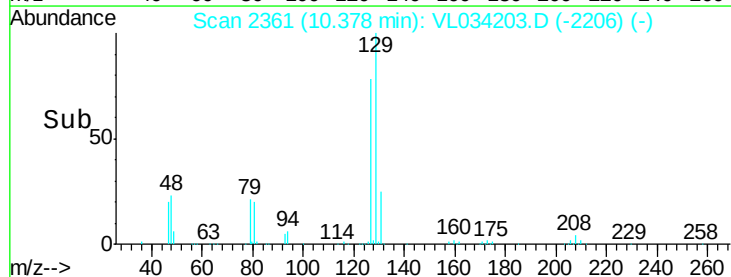
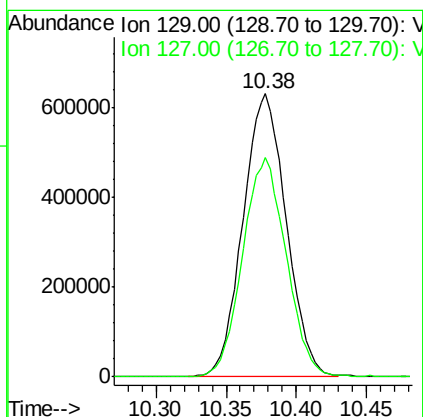
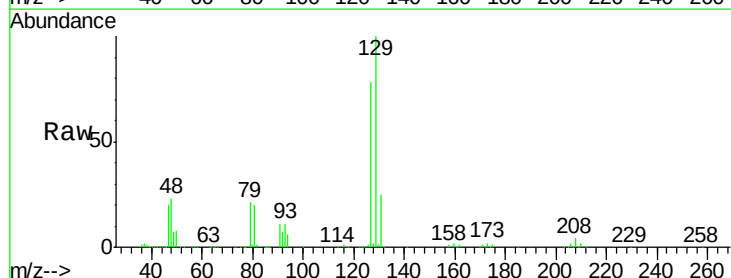
RT: 10.38 min Scan# 2361

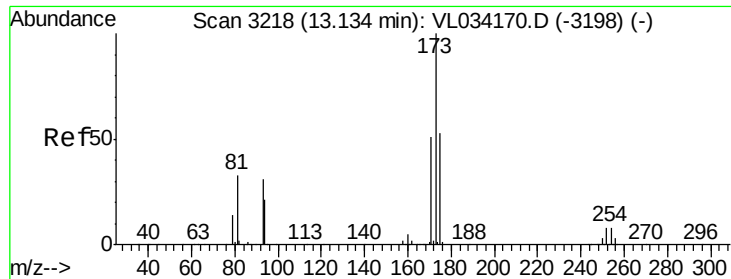
Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion:	129	Resp:	1354112
Ion Ratio	Lower	Upper	
129	100		
127	78.2	39.2	117.6





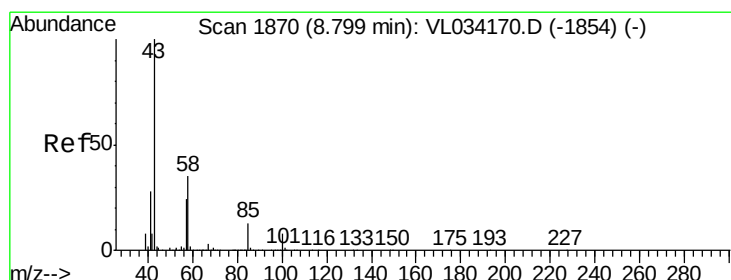
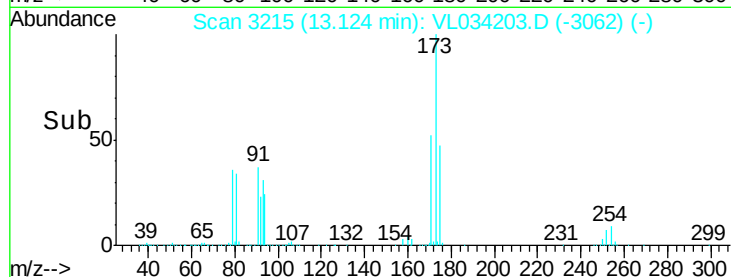
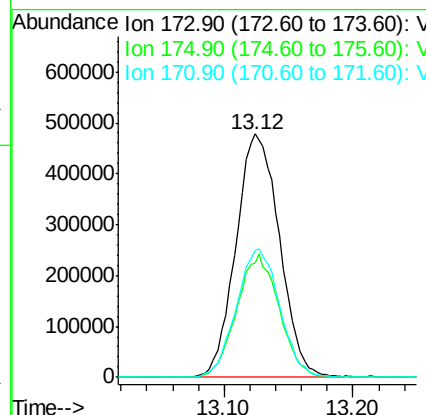
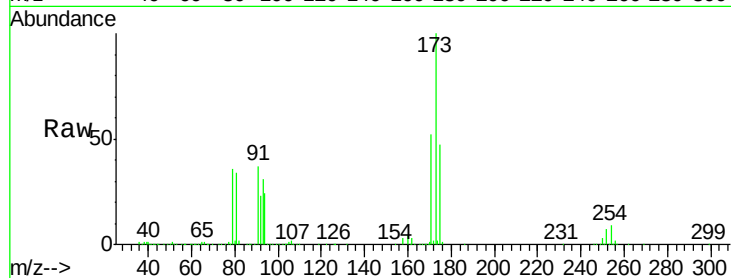
#49
Bromoform
Concen: 9.846 ppbv
RT: 13.12 min Scan# 3215
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1113871
Ion Ratio Lower Upper
173 100
175 50.0 40.3 60.5
171 53.0 42.0 63.0

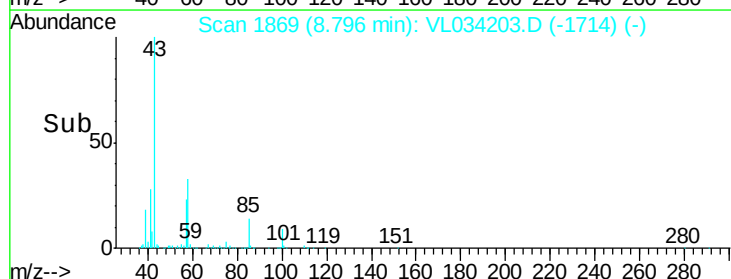
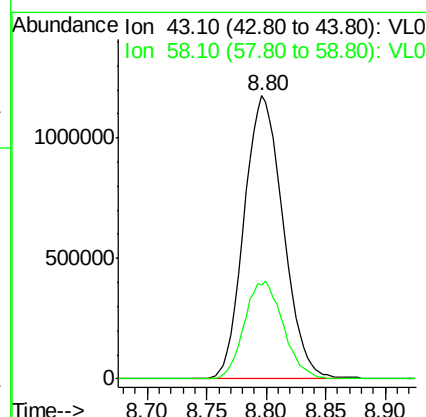
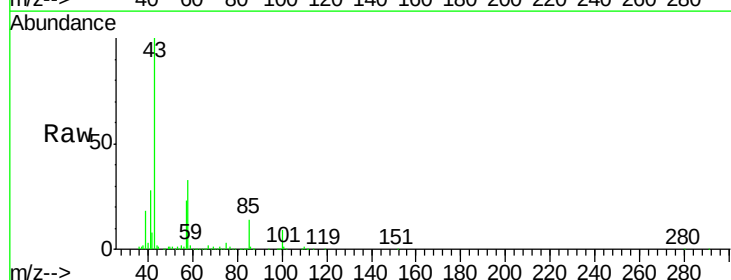
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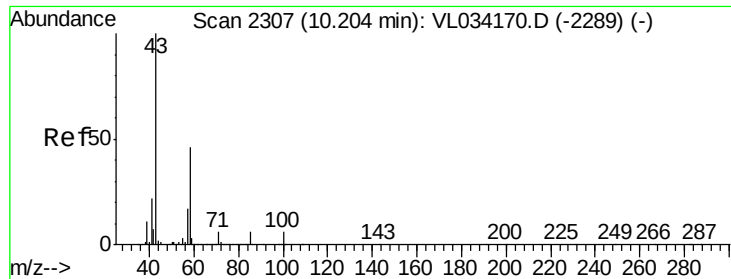
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.077 ppbv
RT: 8.80 min Scan# 1869
Delta R.T. -0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion: 43 Resp: 2670093
Ion Ratio Lower Upper
43 100
58 34.4 27.6 41.4





#51

2-Hexanone

Concen: 9.213 ppbv

RT: 10.20 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2274193

Ion Ratio Lower Upper

43 100

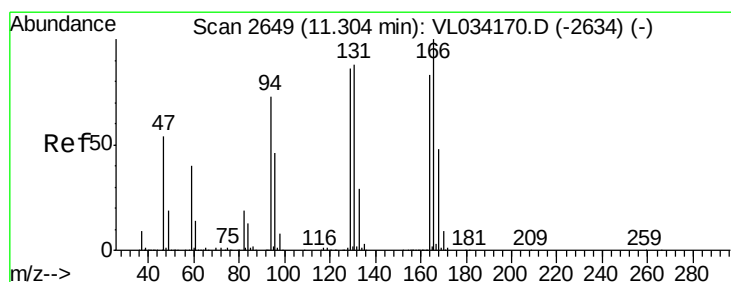
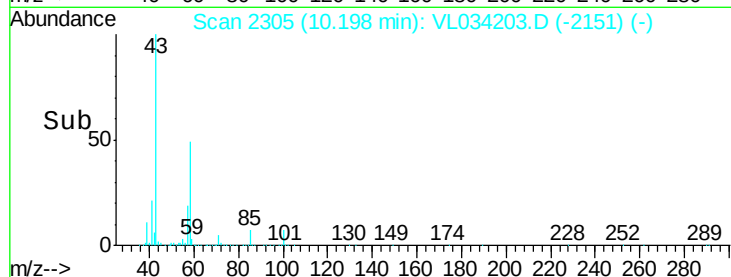
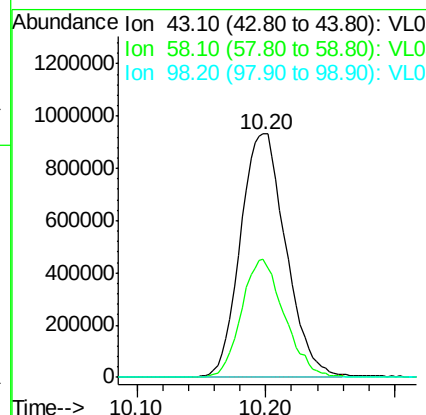
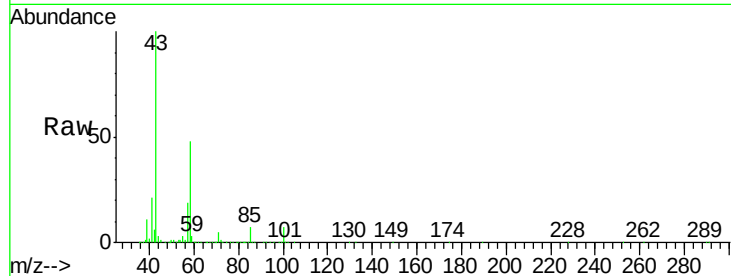
58 45.9 36.2 54.4

98 0.1 0.2 0.2#

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#52

Tetrachloroethene

Concen: 8.918 ppbv

RT: 11.30 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion: 164 Resp: 644146

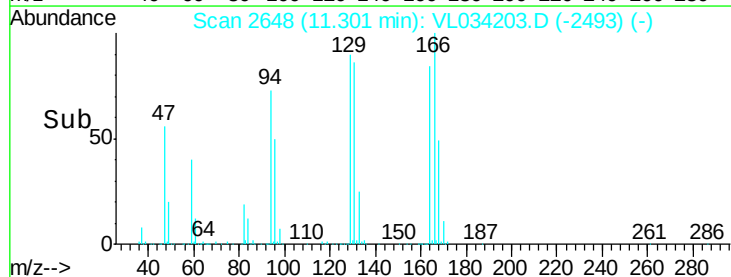
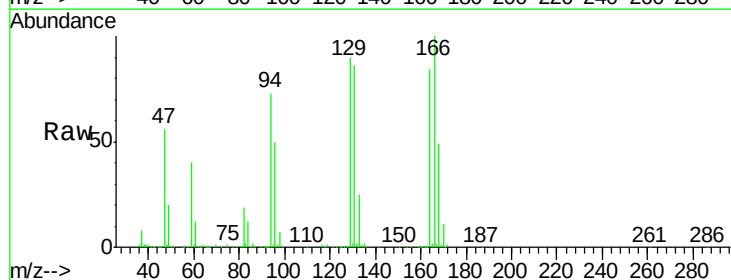
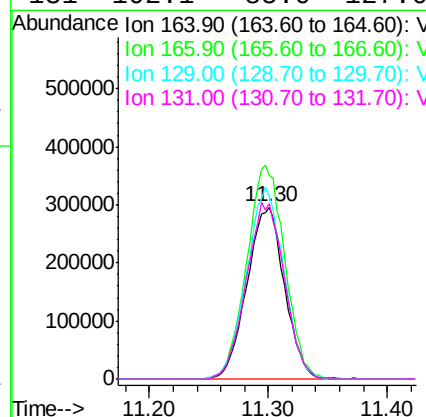
Ion Ratio Lower Upper

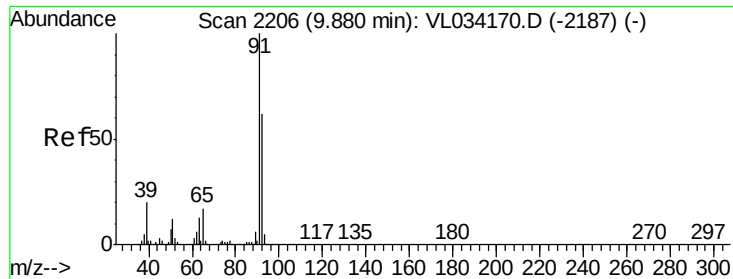
164 100

166 118.4 96.7 145.1

129 106.3 82.8 124.2

131 102.1 85.0 127.6





#53

Toluene

Concen: 9.602 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2294270

Ion Ratio Lower Upper

91 100

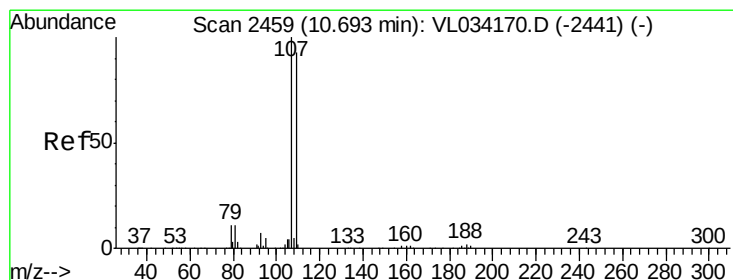
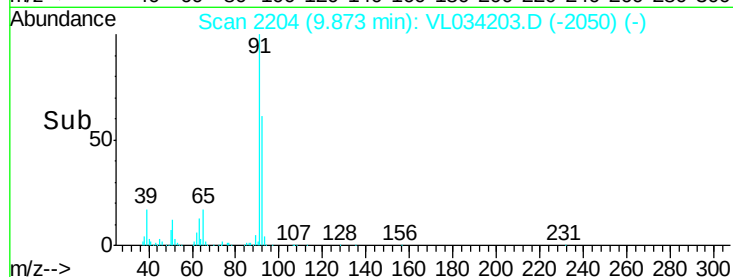
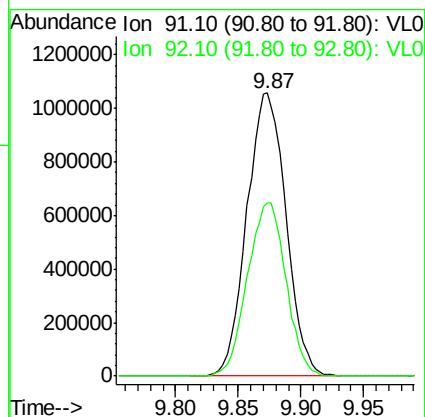
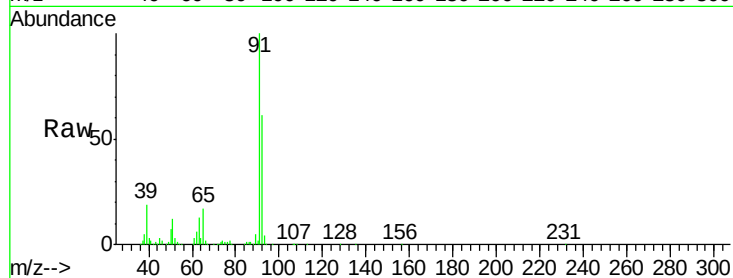
92 60.4 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.394 ppbv

RT: 10.68 min Scan# 2456

Delta R.T. -0.01 min

Lab File: VL034203.D

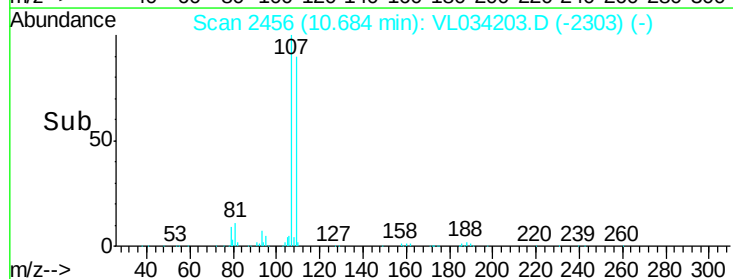
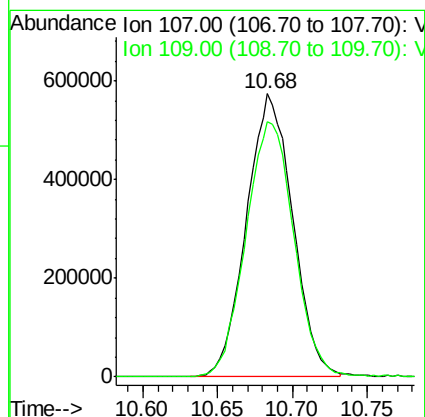
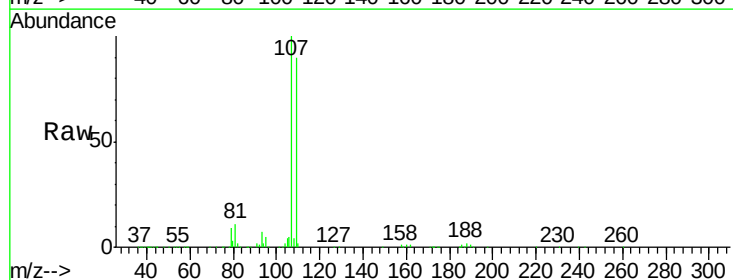
Acq: 24 Sep 2019 16:34

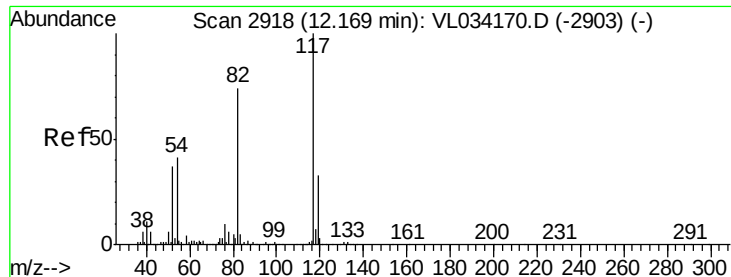
Tgt Ion: 107 Resp: 1232186

Ion Ratio Lower Upper

107 100

109 90.1 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.17 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2096521

Ion Ratio Lower Upper

117 100

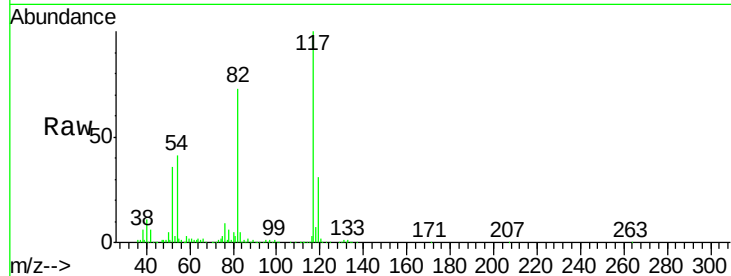
82 76.0 58.2 87.4

119 33.7 23.7 35.5

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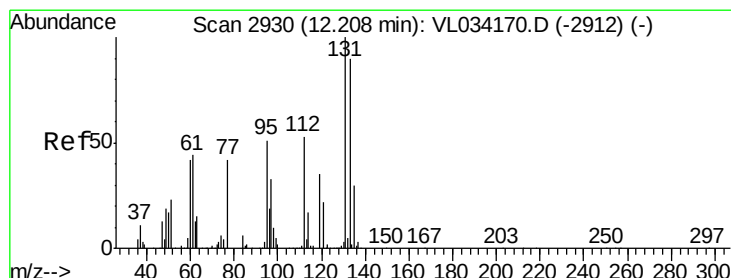
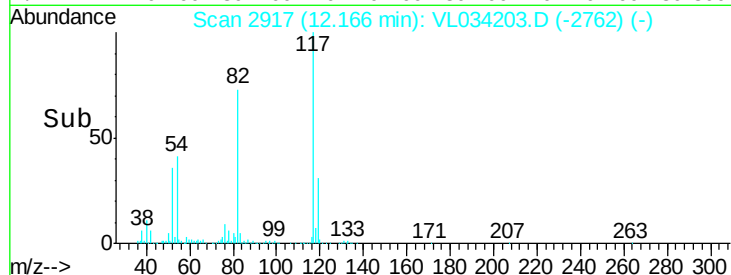
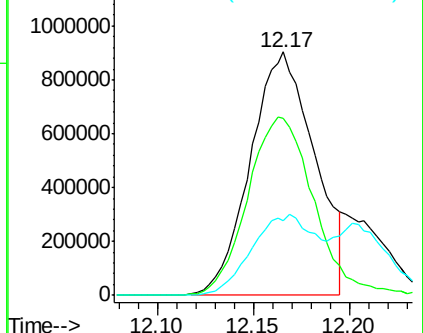
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.397 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

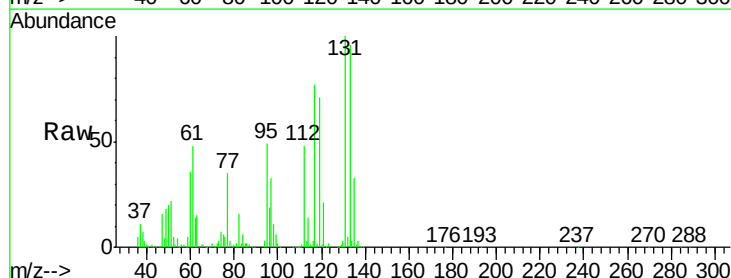
Tgt Ion:131 Resp: 878641

Ion Ratio Lower Upper

131 100

133 95.0 75.1 112.7

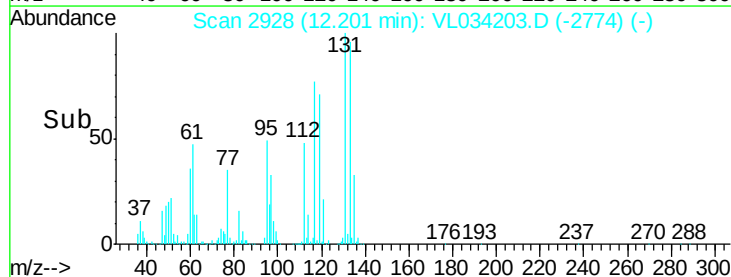
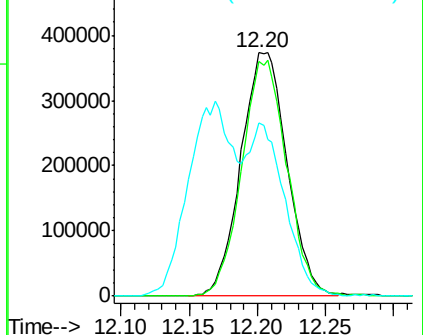
119 57.2 47.4 71.0

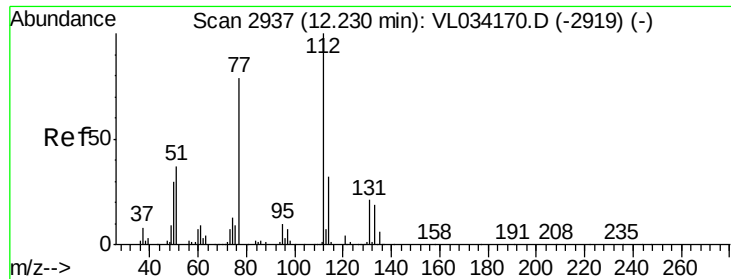


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.757 ppbv

RT: 12.23 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1598394

Ion Ratio Lower Upper

112 100

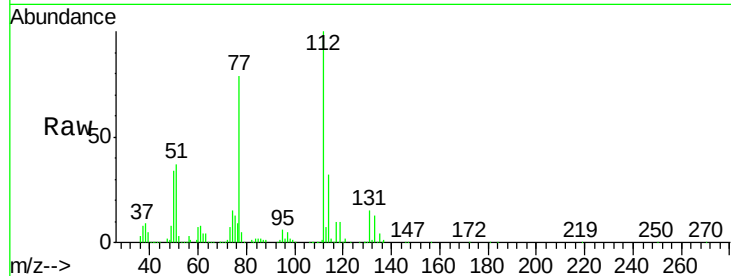
77 78.9 64.3 96.5

114 32.4 28.9 35.3

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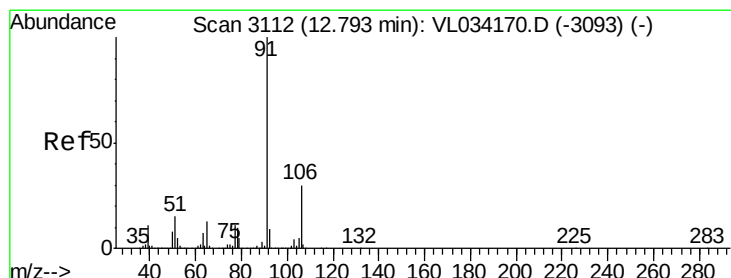
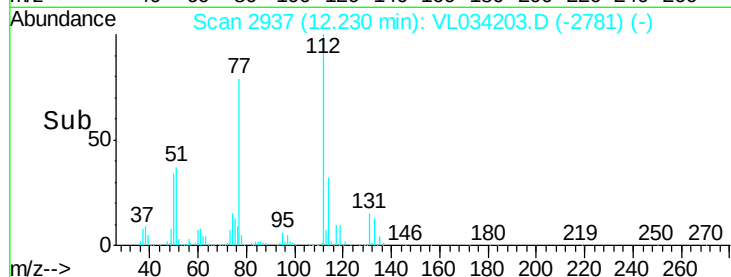
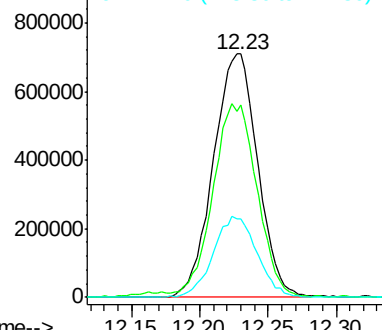
9/26/2019 12:39:37 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.124 ppbv

RT: 12.79 min Scan# 3111

Delta R.T. -0.00 min

Lab File: VL034203.D

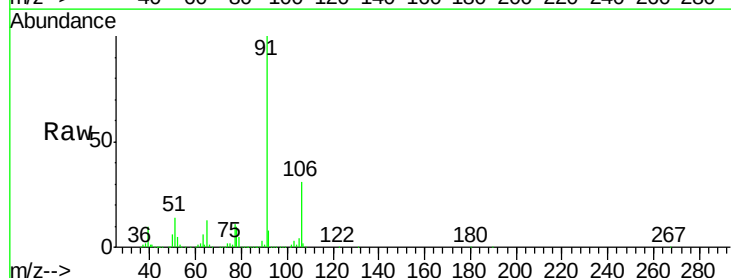
Acq: 24 Sep 2019 16:34

Tgt Ion: 91 Resp: 3086372

Ion Ratio Lower Upper

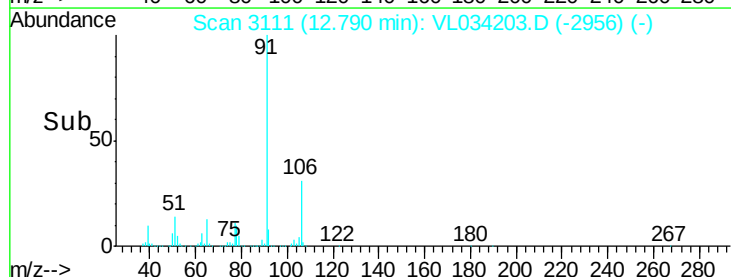
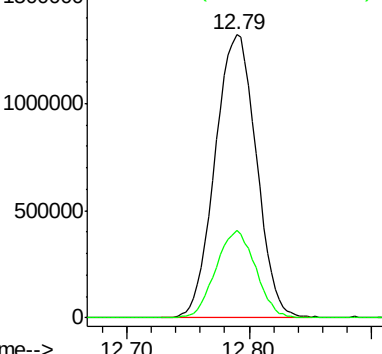
91 100

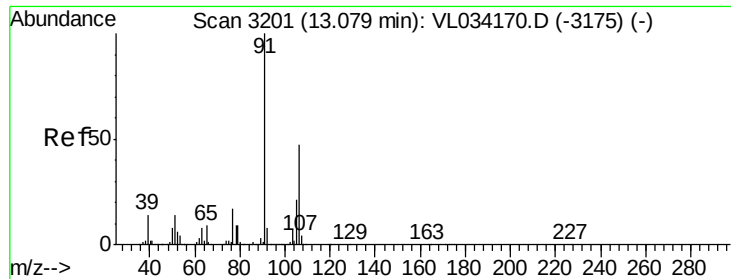
106 30.9 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





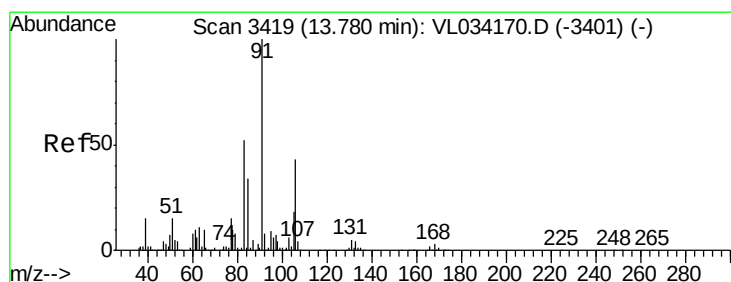
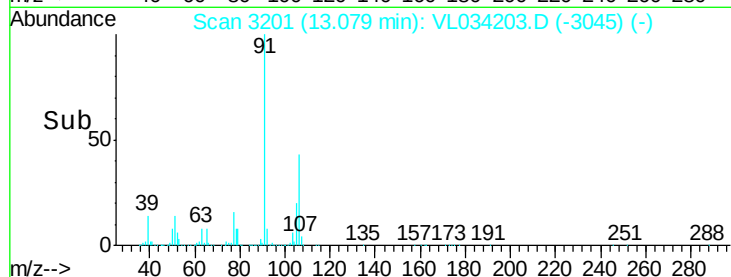
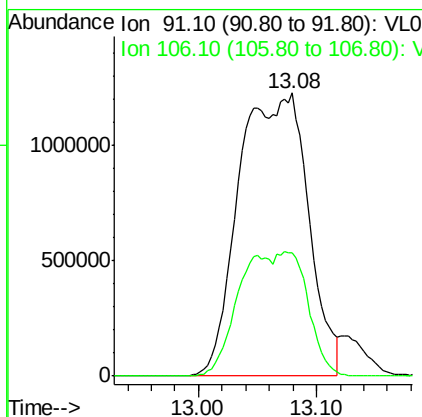
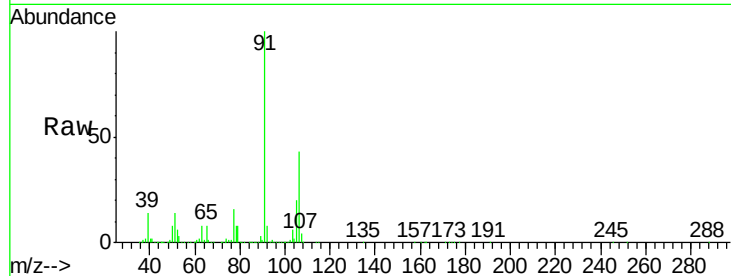
#59
m/p-Xylene
Concen: 17.800 ppbv m
RT: 13.08 min Scan# 3201
Delta R.T. 0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4987408
Ion Ratio Lower Upper
91 100
106 43.7 35.5 53.3

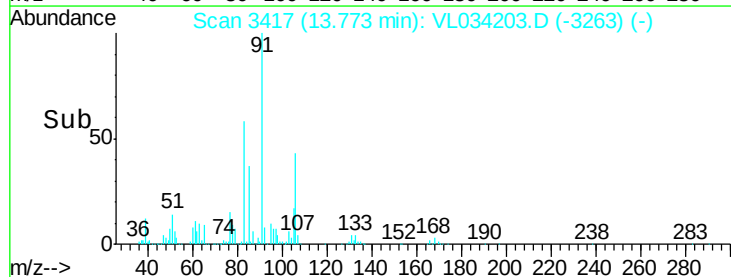
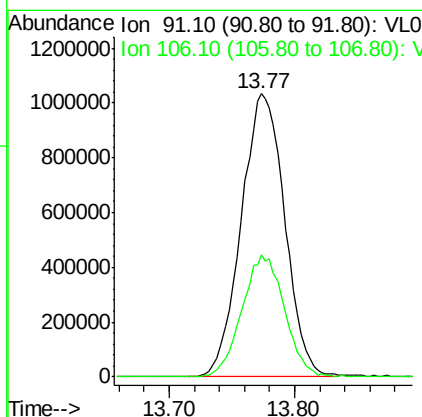
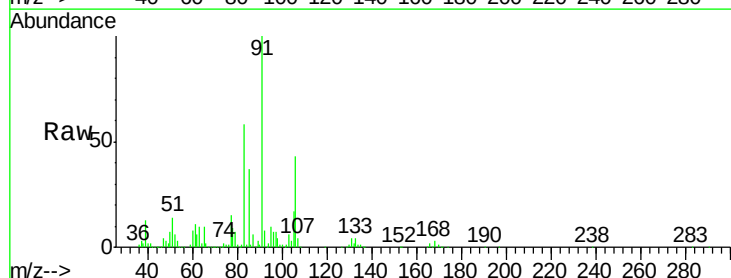
Manual Integrations
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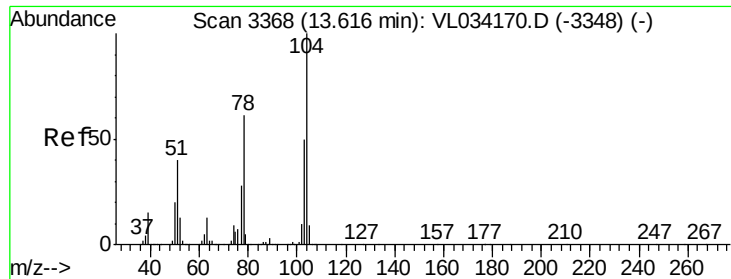
MMDadoda
9/26/2019 12:39:37 AM



#60
o-Xylene
Concen: 8.865 ppbv
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion: 91 Resp: 2483836
Ion Ratio Lower Upper
91 100
106 42.2 21.2 63.6





#61

Stvrene

Concen: 9.366 ppbv

RT: 13.61 min Scan# 3367

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010EC

Tot Ion:104 Resp: 1879699

Ion Ratio Lower Upper

104 100

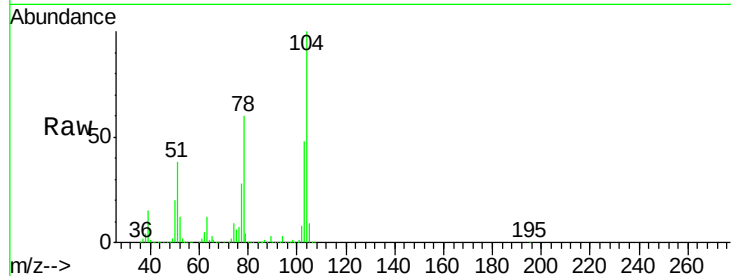
78 61.4 49.7 74.5

103 48.6 38.4 57.6

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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

1000000

800000

600000

400000

200000

0

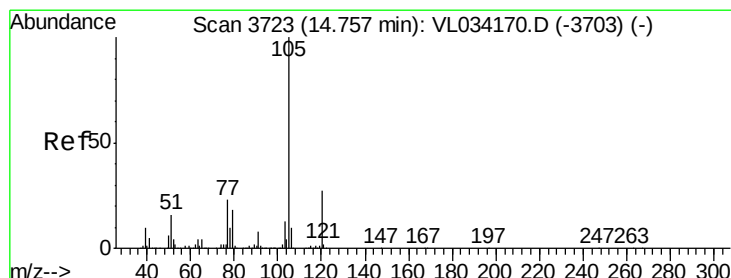
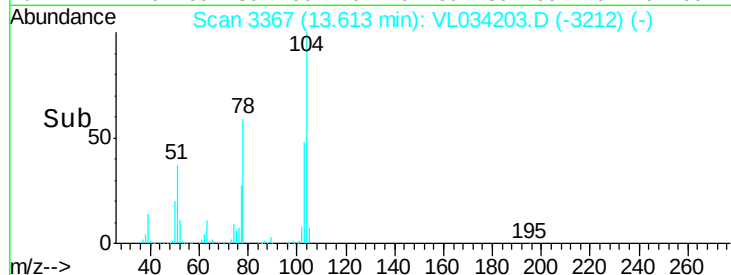
13.61

13.50

13.60

13.70

Time-->



#62

Isopropylbenzene

Concen: 8.839 ppbv

RT: 14.75 min Scan# 3721

Delta R.T. -0.01 min

Lab File: VL034203.D

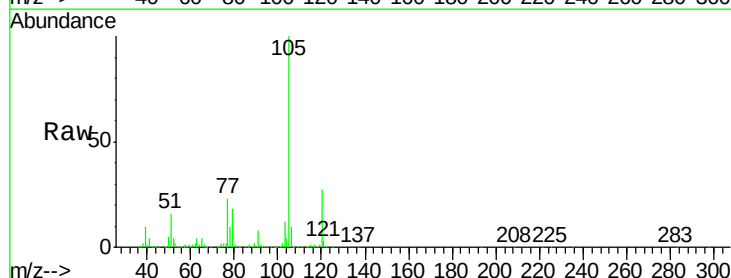
Acq: 24 Sep 2019 16:34

Tgt Ion:105 Resp: 3205823

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

1000000

500000

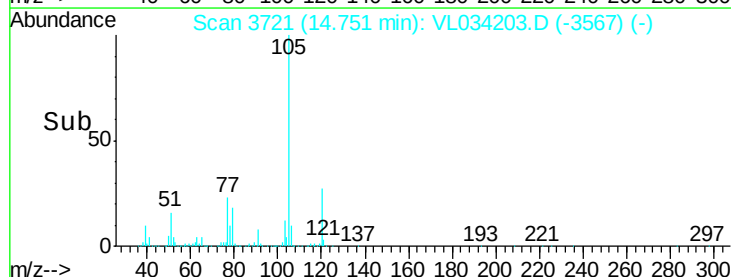
0

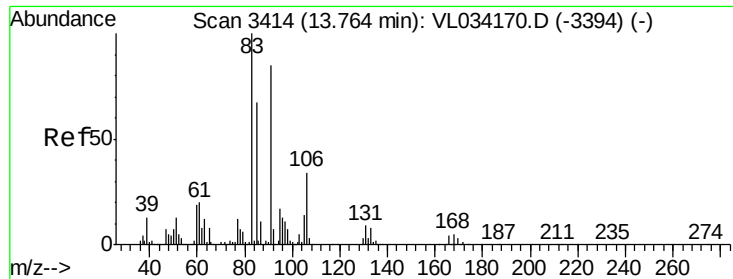
14.75

14.70

14.80

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 7.911 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1817553

Ion Ratio Lower Upper

83 100

131 8.1 4.3 12.8

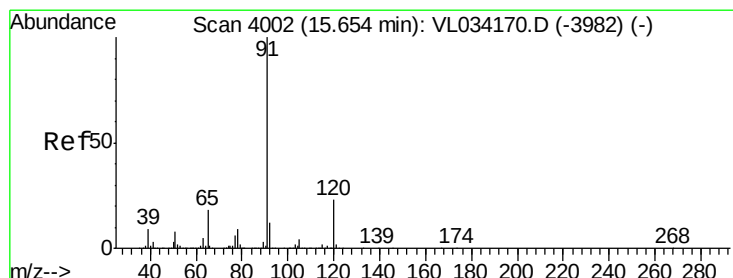
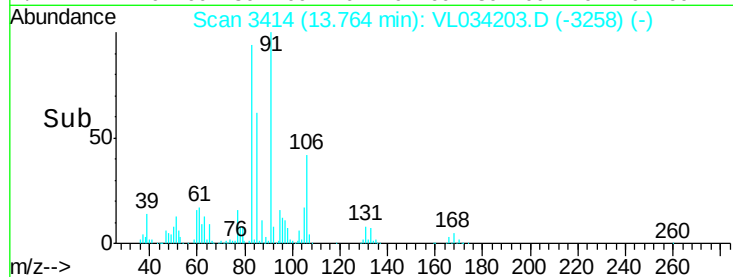
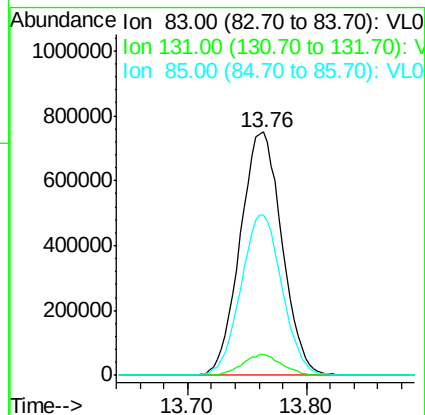
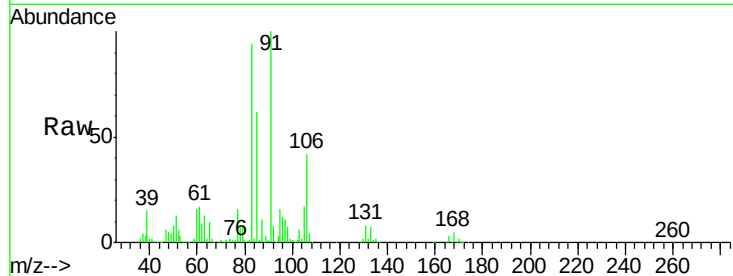
85 65.2 32.8 98.4

Manual Integrations

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#64

n-propylbenzene

Concen: 8.877 ppbv

RT: 15.65 min Scan# 4000

Delta R.T. -0.01 min

Lab File: VL034203.D

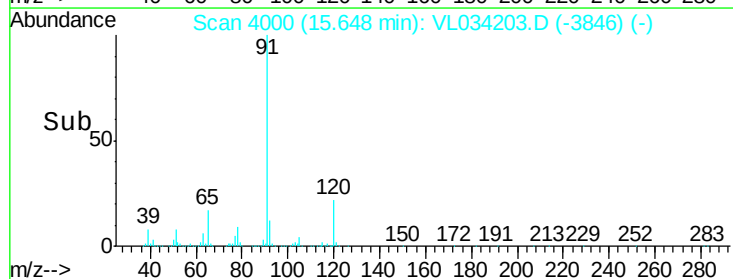
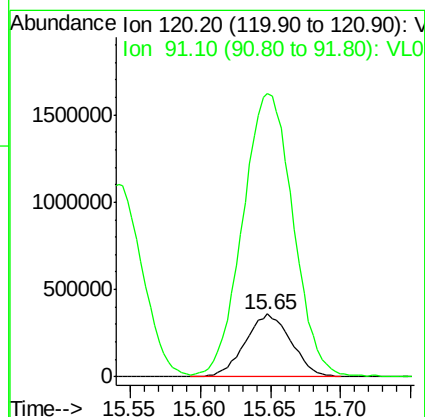
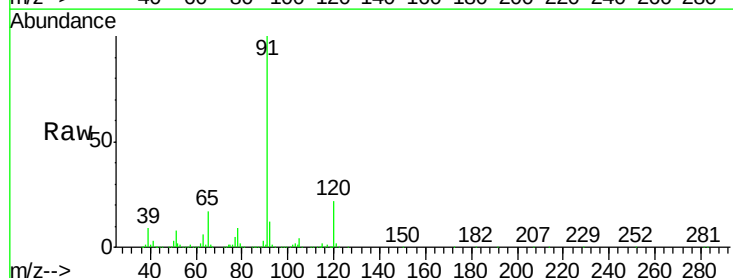
Acq: 24 Sep 2019 16:34

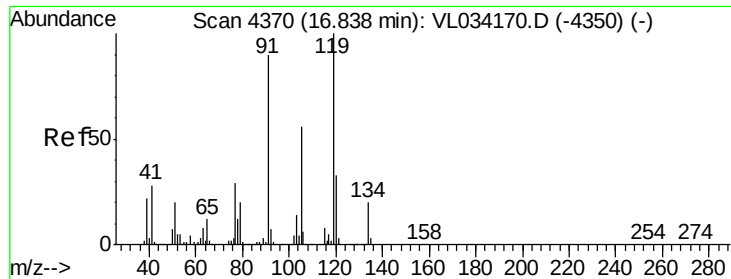
Tgt Ion: 120 Resp: 814543

Ion Ratio Lower Upper

120 100

91 499.1 378.2 567.2





#65

tert-Butylbenzene

Concen: 8.563 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2713514

Ion Ratio Lower Upper

119 100

91 92.5 74.9 112.3

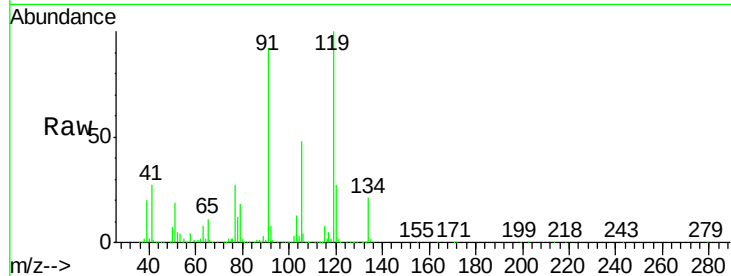
134 19.5 15.8 23.6

Manual Integrations

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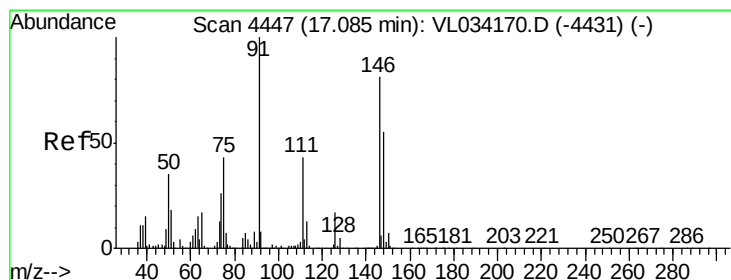
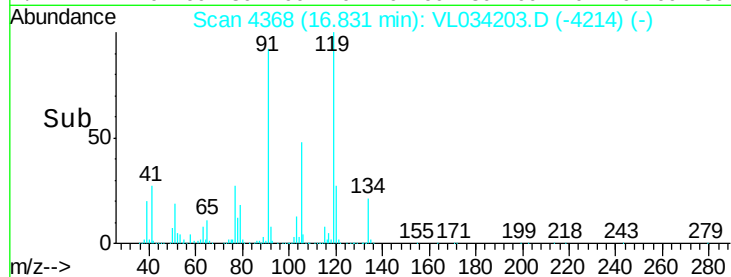
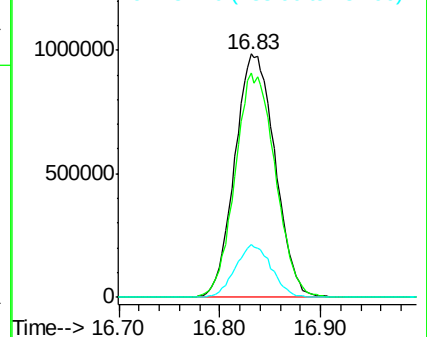
9/26/2019 12:39:37 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.508 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. 0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

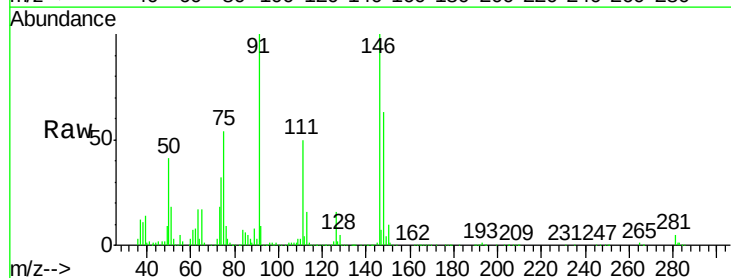
Tgt Ion: 91 Resp: 1290252

Ion Ratio Lower Upper

91 100

126 15.3 12.6 19.0

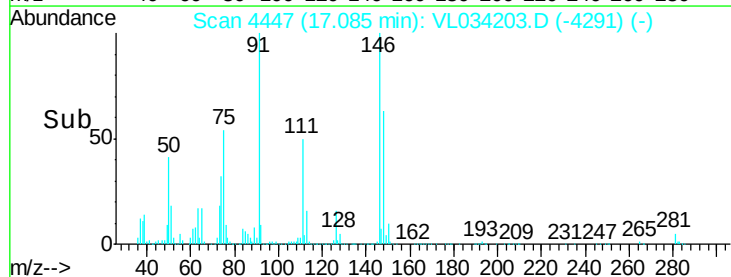
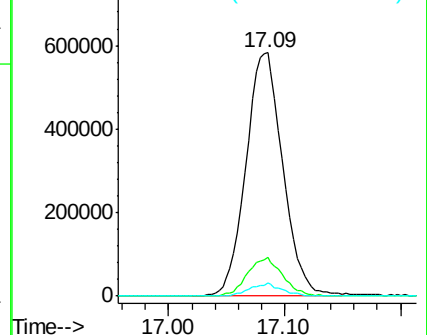
128 4.7 4.0 6.0

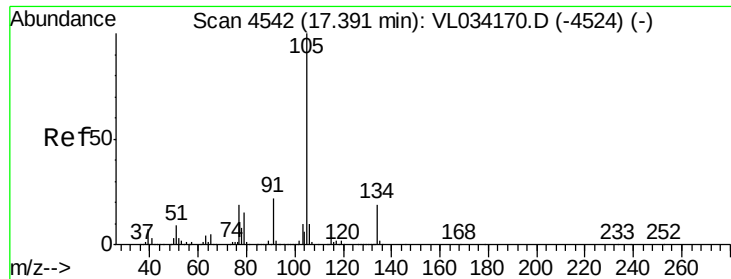


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





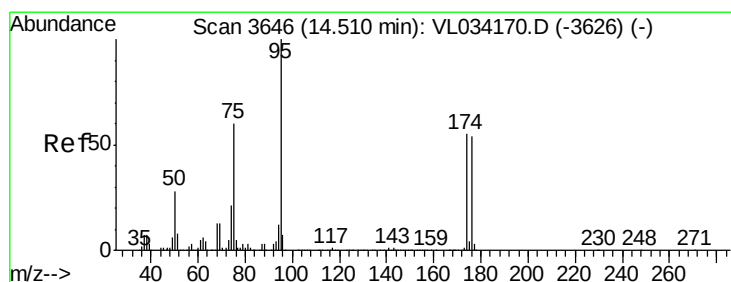
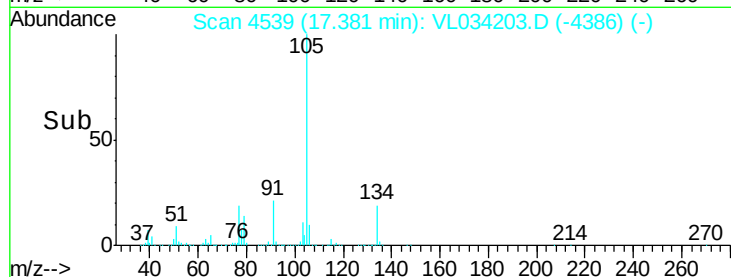
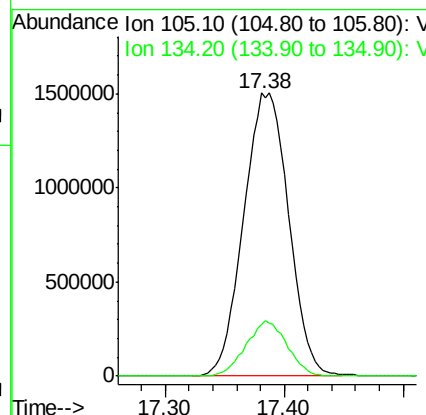
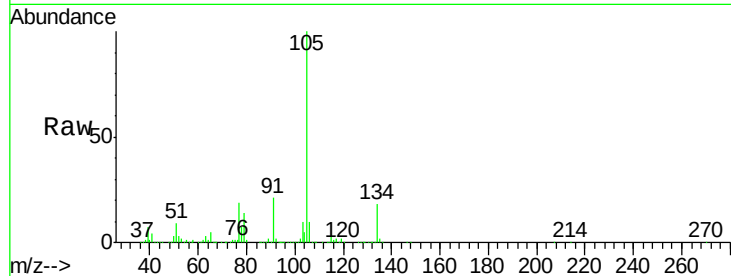
#67
 sec-Butylbenzene
 Concen: 8.688 ppbv
 RT: 17.38 min Scan# 4539
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 3936933
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.6 22.0

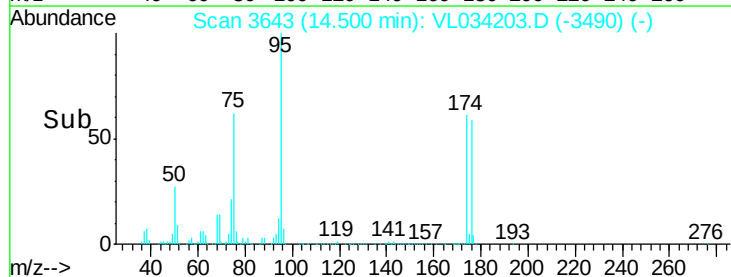
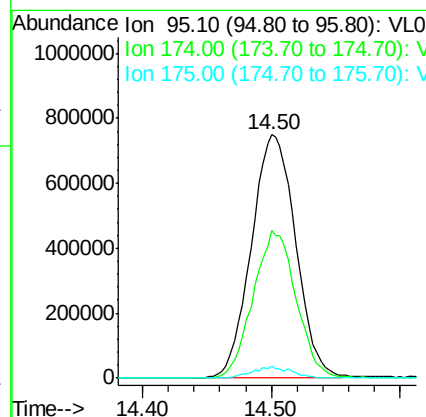
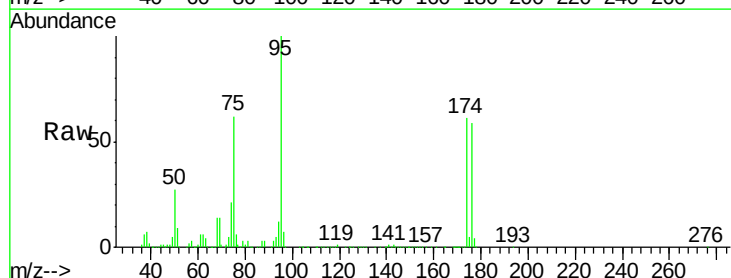
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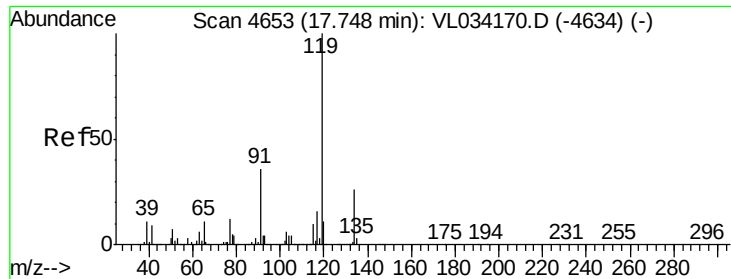
MMDadoda
 9/26/2019 12:39:37 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.830 ppbv
 RT: 14.50 min Scan# 3643
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion: 95 Resp: 1790785
 Ion Ratio Lower Upper
 95 100
 174 59.1 45.1 67.7
 175 4.3 3.3 4.9





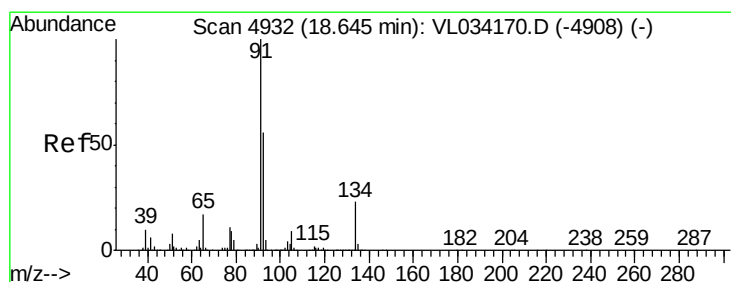
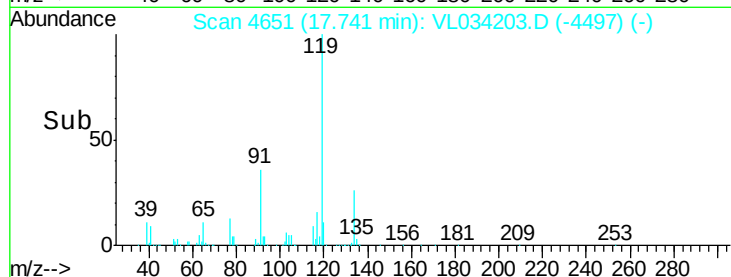
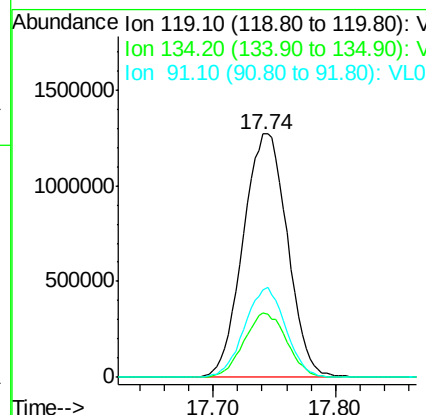
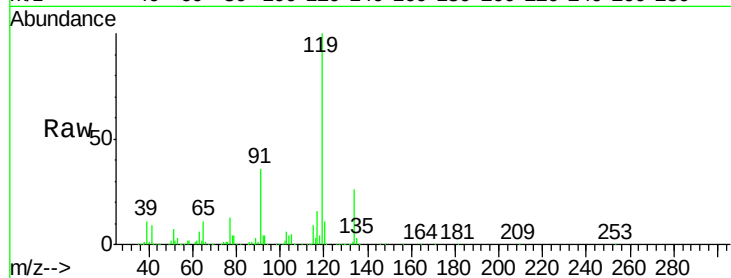
#69
 p-Isopropyltoluene
 Concen: 8.678 ppbv
 RT: 17.74 min Scan# 4651
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	34.4	27.6	41.4

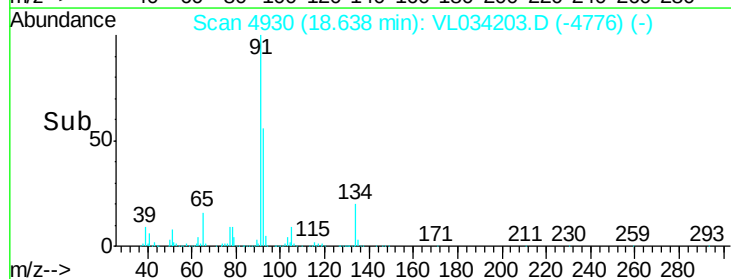
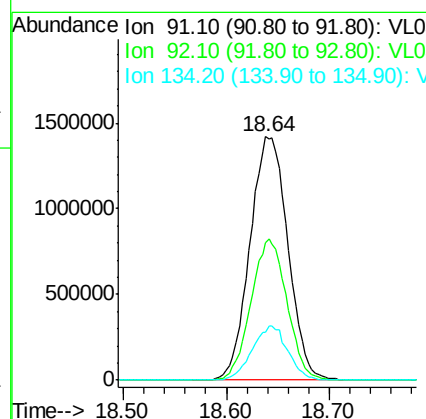
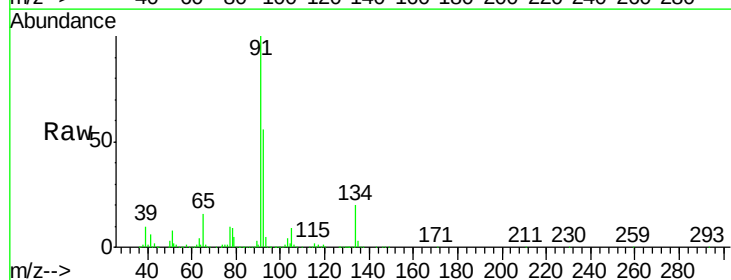
Manual Integrations
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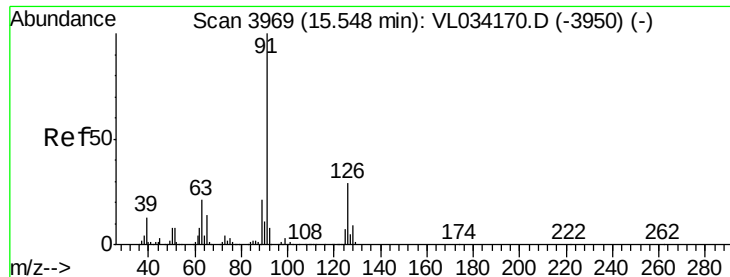
MMDadoda
 9/26/2019 12:39:37 AM



#70
 n-Butylbenzene
 Concen: 8.473 ppbv
 RT: 18.64 min Scan# 4930
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.8	67.2
134	20.9	17.3	25.9





#71

2-Chlorotoluene

Concen: 8.897 ppbv

RT: 15.54 min Scan# 3967

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2636471

Ion Ratio Lower Upper

91 100

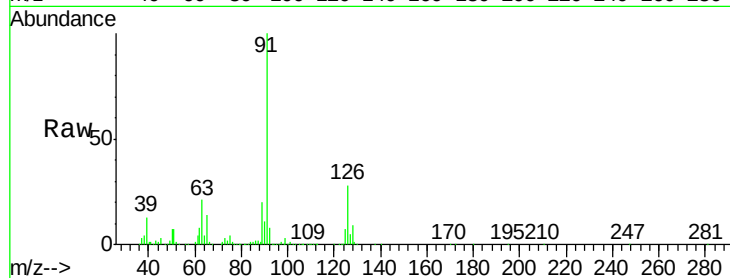
126 27.9 11.2 45.0

Manual Integrations

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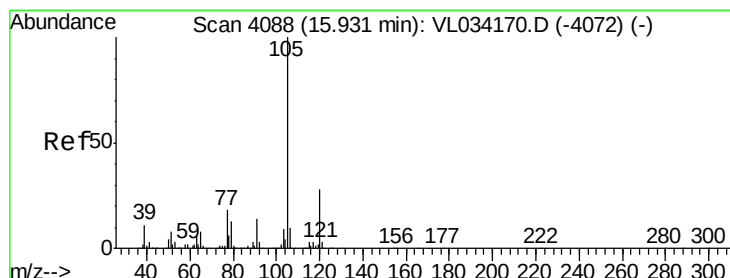
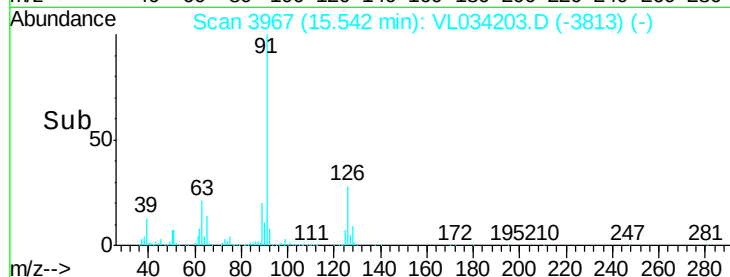
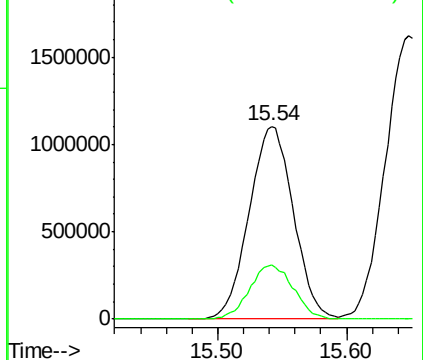
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.017 ppbv

RT: 15.93 min Scan# 4088

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion:105 Resp: 2854110

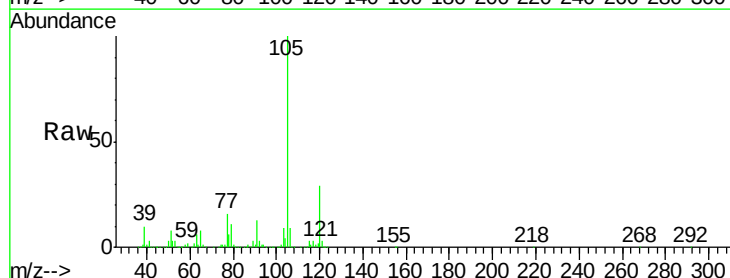
Ion Ratio Lower Upper

105 100

120 29.0 23.3 34.9

91 14.3 11.4 17.2

77 16.9 13.3 19.9

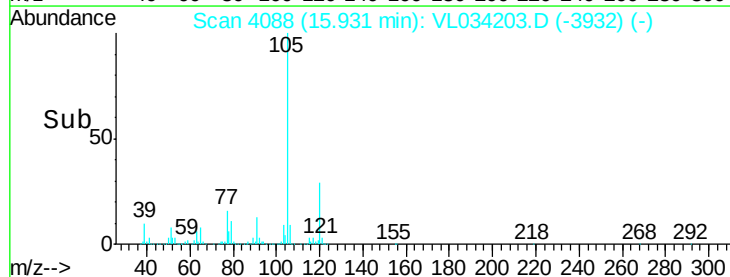
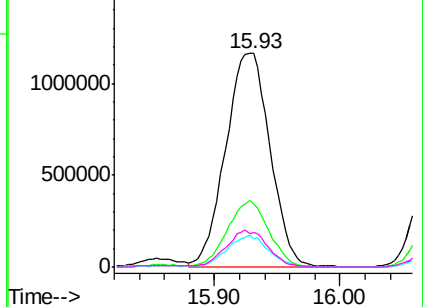


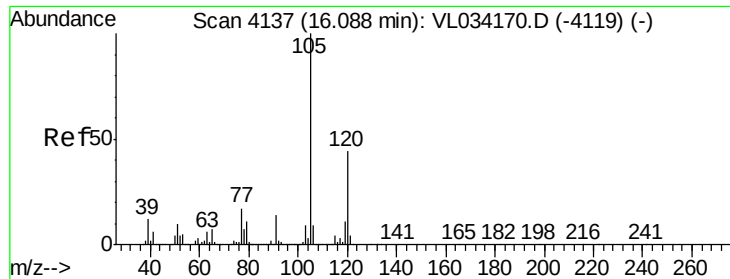
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.894 ppbv

RT: 16.08 min Scan# 4135

Delta R.T. -0.01 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2719804

Ion Ratio Lower Upper

105 100

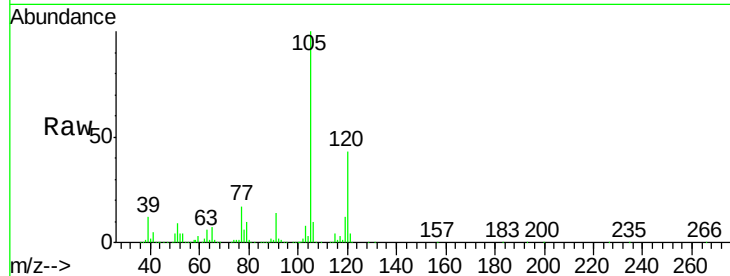
120 42.7 35.6 53.4

Manual Integrations

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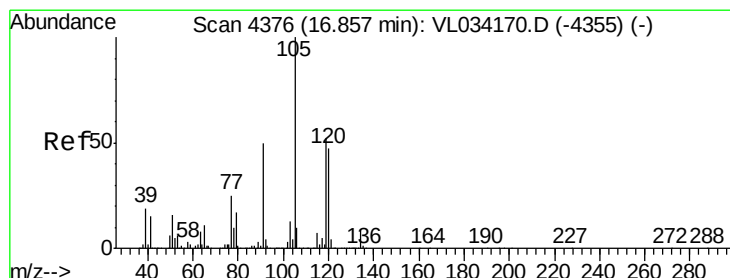
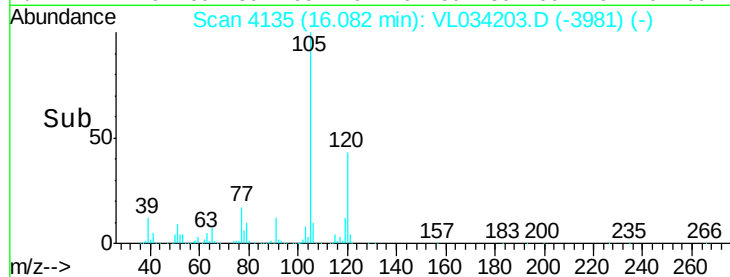
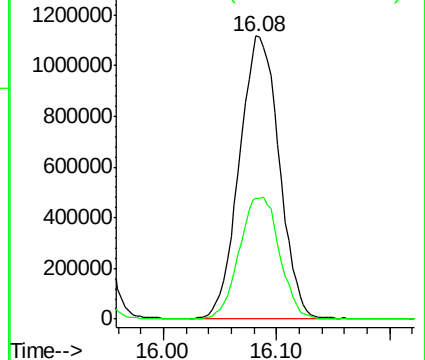
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.433 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. -0.00 min

Lab File: VL034203.D

Acq: 24 Sep 2019 16:34

Tgt Ion:105 Resp: 2738125

Ion Ratio Lower Upper

105 100

120 46.8 37.5 56.3

91 48.6 41.1 61.7

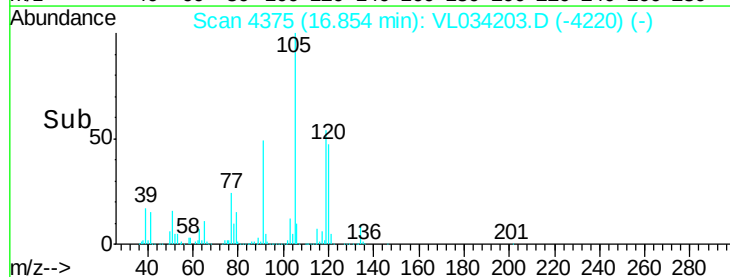
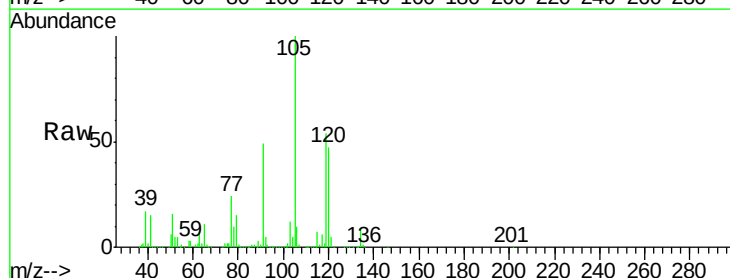
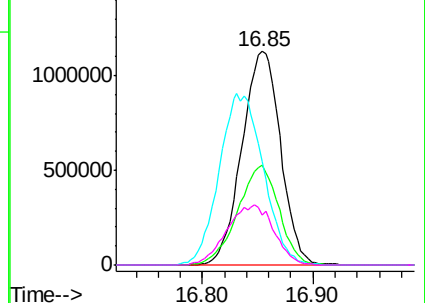
77 23.5 19.9 29.9

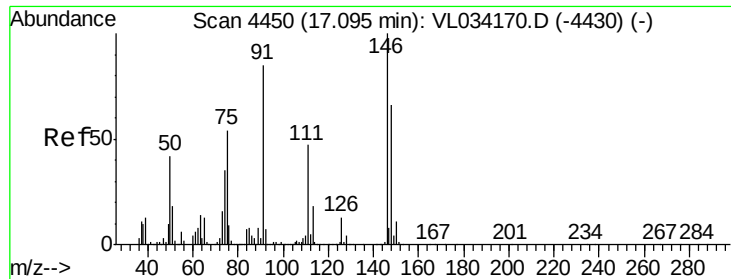
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





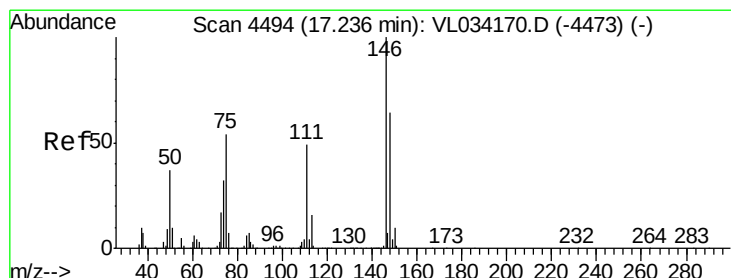
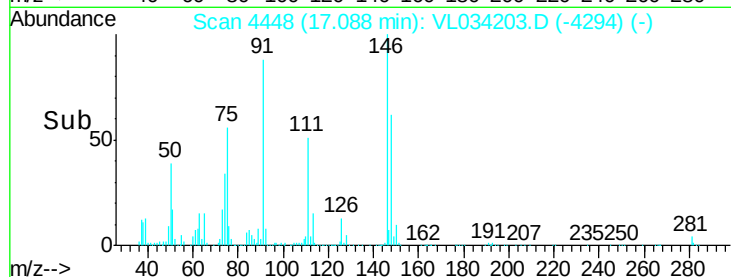
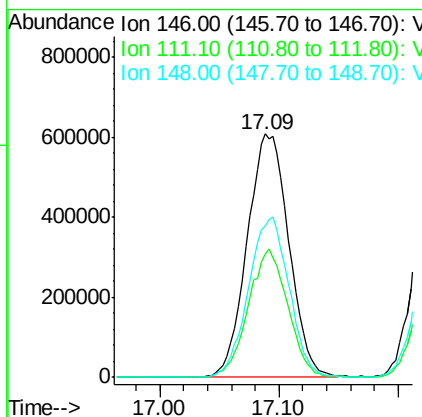
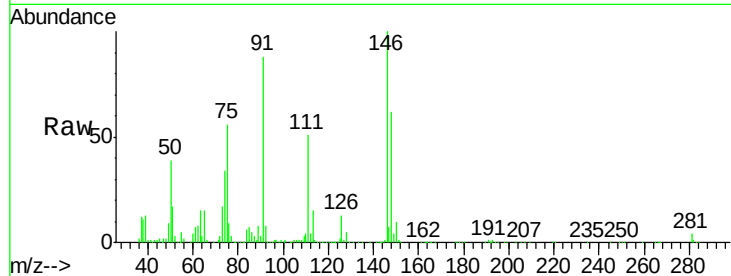
#75
 1,3-Dichlorobenzene
 Concen: 8.453 ppbv
 RT: 17.09 min Scan# 4448
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.0	25.9	77.8
148	64.3	32.6	97.7

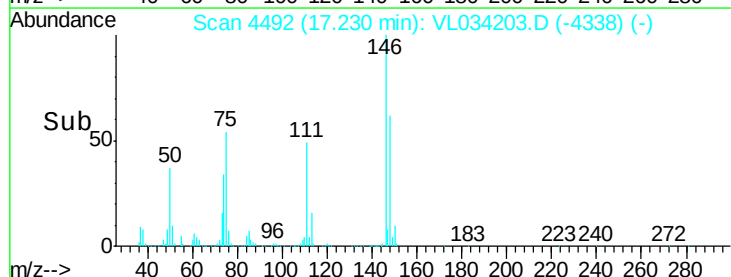
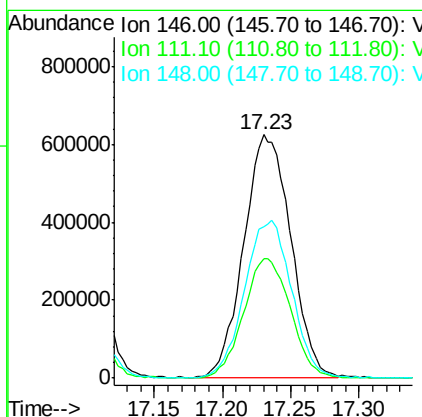
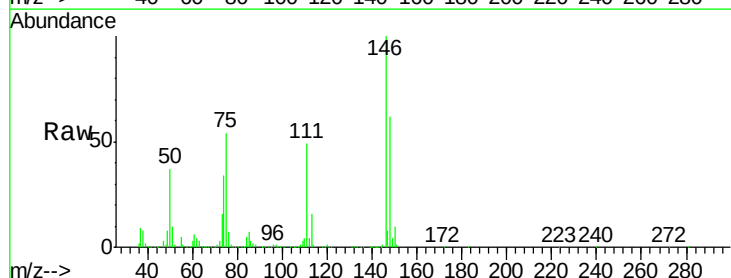
Manual Integrations
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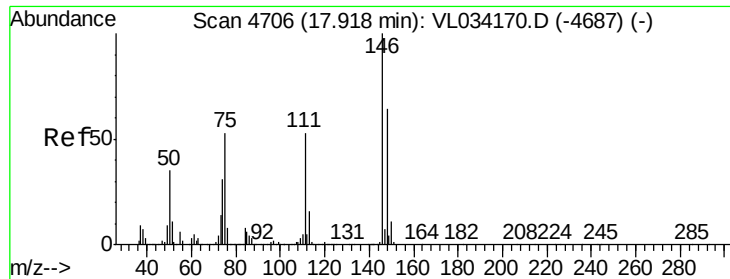
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 8.335 ppbv
 RT: 17.23 min Scan# 4492
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.6	74.0
148	65.4	32.4	97.0





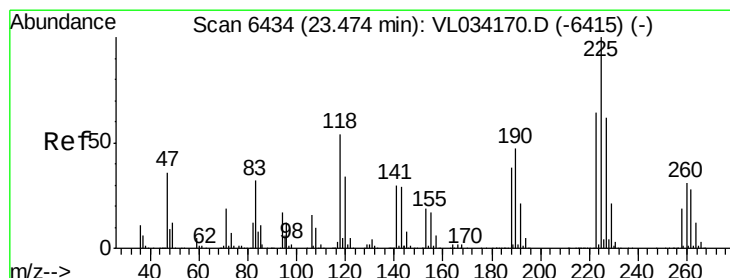
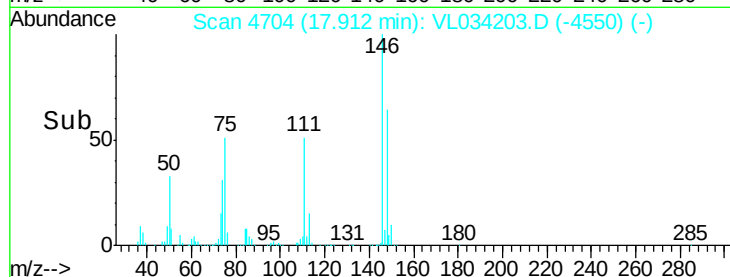
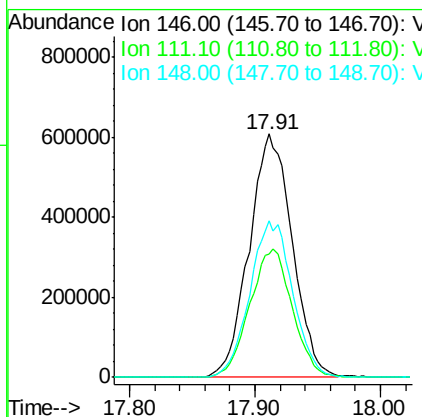
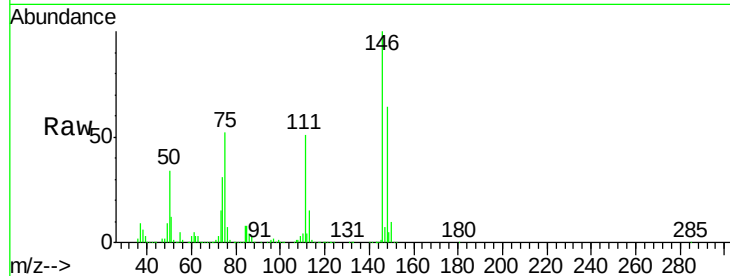
#77
 1,2-Dichlorobenzene
 Concen: 8.223 ppbv
 RT: 17.91 min Scan# 4704
 Delta R.T. -0.01 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1449884
 Ion Ratio Lower Upper
 146 100
 111 52.3 26.1 78.3
 148 64.3 31.9 95.9

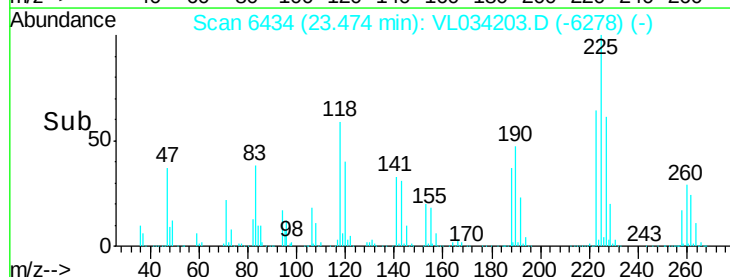
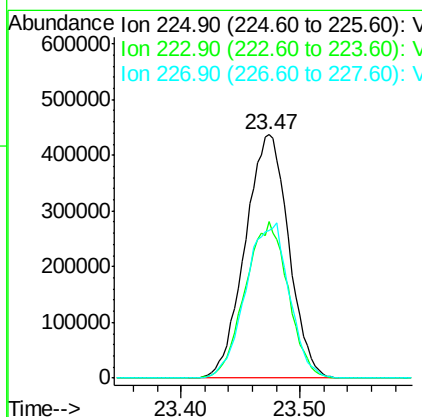
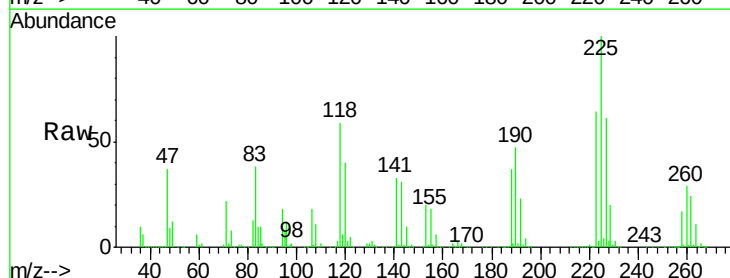
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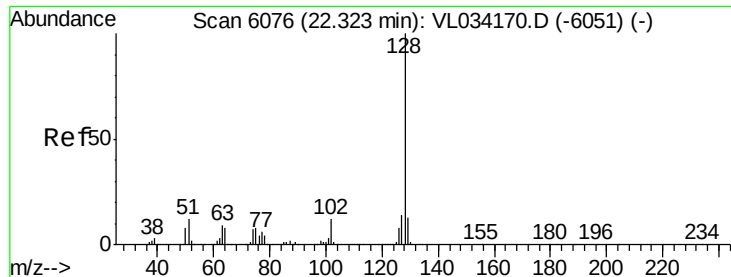
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.466 ppbv
 RT: 23.47 min Scan# 6434
 Delta R.T. 0.00 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Tgt Ion:225 Resp: 1105549
 Ion Ratio Lower Upper
 225 100
 223 63.1 51.7 77.5
 227 63.9 52.1 78.1





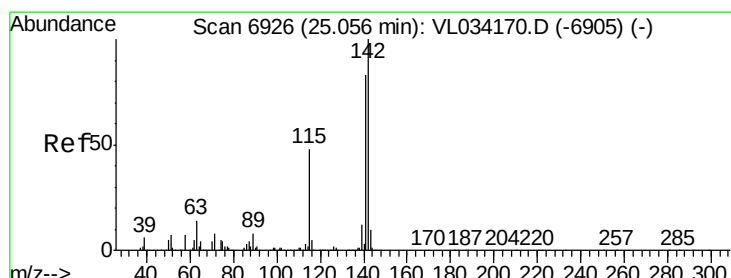
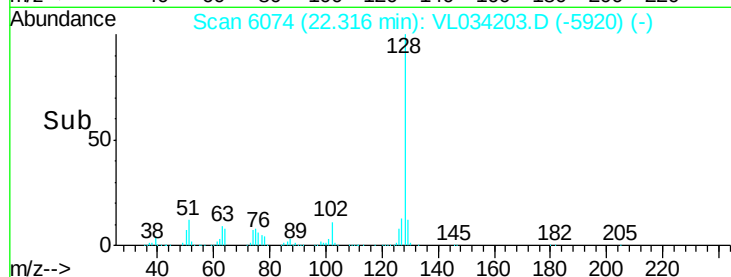
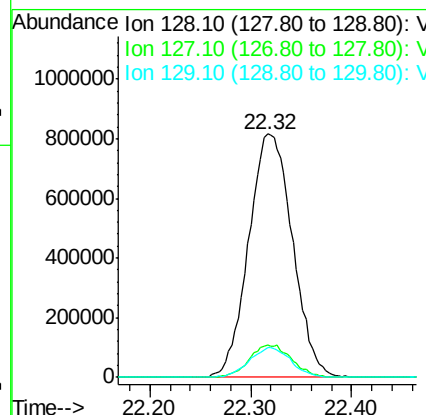
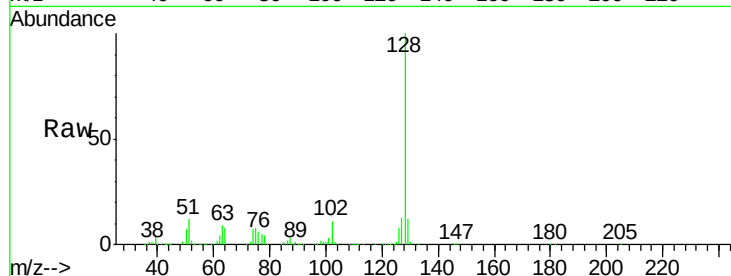
#79
Naphthalene
Concen: 8.596 ppbv
RT: 22.32 min Scan# 6074
Delta R.T. -0.01 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	11.1	16.7
129	12.1	10.2	15.4

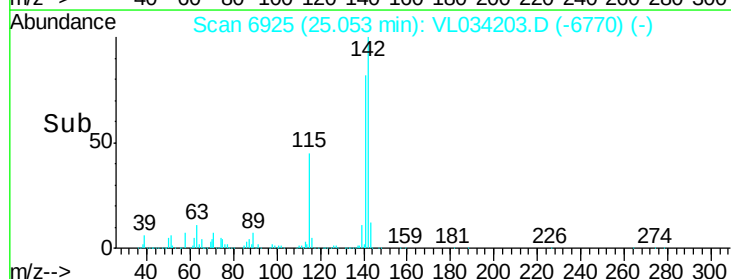
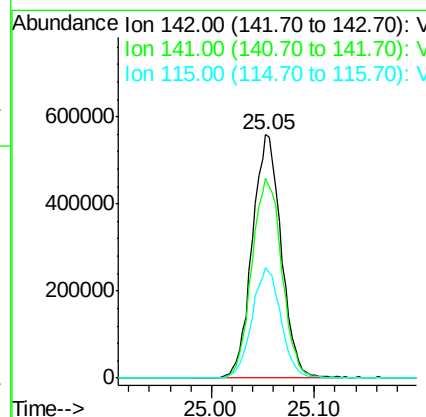
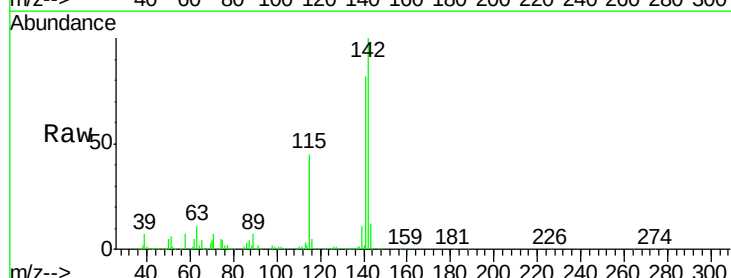
Manual Integrations
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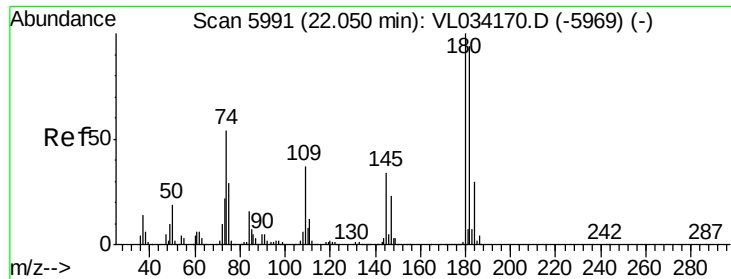
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9/26/2019 12:39:37 AM



#80
Naphthalene, 2-methyl-
Concen: 8.173 ppbv
RT: 25.05 min Scan# 6925
Delta R.T. -0.00 min
Lab File: VL034203.D
Acq: 24 Sep 2019 16:34

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.6	101.4
115	45.2	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.410 ppbv
 RT: 22.05 min Scan# 5991
 Delta R.T. 0.00 min
 Lab File: VL034203.D
 Acq: 24 Sep 2019 16:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.4	116.2
184	31.3	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 12:39:37 AM

