

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091219\
 Data File : VL034168.D
 Acq On : 13 Sep 2019 9:23
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/14/2019 12:09:50 AM

Quant Time: Sep 13 10:06:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1207906	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	2115026	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	2215748m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1867391	10.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1319930	6.625	ppbv	93
3) Chlorodifluoromethane	2.97	51	1378744	10.240	ppbv	98
4) Chloromethane	3.13	50	827661	9.832	ppbv	96
5) Vinyl Chloride	3.24	62	719845	9.388	ppbv	99
6) Bromomethane	3.47	94	354991	9.381	ppbv	97
7) Chloroethane	3.55	64	265885	10.178	ppbv	95
8) Dichlorotetrafluoroethane	3.18	85	1479464	9.226	ppbv	98
9) Propene	2.99	41	685085	9.094	ppbv	97
10) Heptane	8.18	43	1789413	9.153	ppbv	99
11) Trichlorofluoromethane	3.95	101	1575892	9.699	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1025292	9.432	ppbv	98
13) Ethanol	3.60	45	139860	9.477	ppbv	100
14) Bromoethene	3.74	108	452941	9.624	ppbv	97
15) Acetone	3.85	43	1364152	9.371	ppbv	99
16) 1,3-Butadiene	3.32	39	719529	9.760	ppbv	99
17) tert-Butyl alcohol	4.30	59	1141980	10.806	ppbv	99
18) 1,1-Dichloroethene	4.30	96	470797	9.480	ppbv	99
19) Isopropyl Alcohol	3.97	45	1063425	10.823	ppbv	99
20) Methylene Chloride	4.35	84	435450	9.047	ppbv	96
21) Allyl Chloride	4.42	41	952942	9.929	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	469473	9.444	ppbv	96
23) Vinyl Acetate	5.10	43	2409123	9.754	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1555732	9.491	ppbv	99
25) Ethyl Acetate	5.70	43	2875843	8.999	ppbv	99
26) Hexane	5.72	57	1206296	8.491	ppbv	98
27) Carbon Disulfide	4.56	76	1316389	10.267	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1923825	9.242	ppbv	100
29) Chloroform	5.78	83	1771932	9.247	ppbv	100
30) Cyclohexane	7.18	84	942230	9.173	ppbv	96
31) cis-1,2-Dichloroethene	5.58	61	1326752	9.751	ppbv	94
32) 1,1,1-Trichloroethane	6.55	97	1724362	9.524	ppbv	97
34) 2-Butanone	5.27	43	2028982	9.979	ppbv	97
35) Carbon Tetrachloride	7.06	117	1707834	10.357	ppbv	99
36) Benzene	6.93	78	2232424	9.234	ppbv #	94
37) 1,2-Dichloroethane	6.35	62	1612707	10.875	ppbv	98
38) Trichloroethene	7.89	130	749976	8.314	ppbv	95
39) 1,2-Dichloropropane	7.66	63	1013739	9.799	ppbv	95
40) 1,4-Dioxane	7.88	88	353385	9.295	ppbv #	97
41) Tetrahydrofuran	6.08	42	1218172	9.993	ppbv	97
42) Bromodichloromethane	7.85	83	1989311	10.292	ppbv	99
43) Methyl Methacrylate	8.06	69	1001812	10.059	ppbv	93

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Manual Integrations
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 9/14/2019 12:09:50 AM

Quant Time: Sep 13 10:06:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
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 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	7.92	57	4107083	9.215	ppbv	98
45) t-1,3-Dichloropropene	9.34	75	1311737	11.206	ppbv	100
46) cis-1,3-Dichloropropene	8.76	75	1471647	10.334	ppbv	96
47) 1,1,2-Trichloroethane	9.54	97	892783	9.472	ppbv	96
48) Dibromochloromethane	10.37	129	1483103	10.545	ppbv	96
49) Bromoform	13.13	173	1175587	9.534	ppbv	100
50) 4-Methyl-2-Pentanone	8.79	43	2955227	9.524	ppbv	97
51) 2-Hexanone	10.19	43	2531092	9.443	ppbv #	96
52) Tetrachloroethene	11.30	164	707723	8.302	ppbv	96
53) Toluene	9.87	91	2471555	9.244	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1323333	9.424	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	942972	9.922	ppbv #	60
57) Chlorobenzene	12.23	112	1739082	9.124	ppbv	99
58) Ethyl Benzene	12.79	91	3315322	9.125	ppbv	100
59) m/p-Xylene	13.08	91	5441979m	18.361	ppbv	
60) o-Xylene	13.77	91	2667495	9.036	ppbv	99
61) Styrene	13.61	104	2026285	9.176	ppbv	98
62) Isopropylbenzene	14.75	105	3422552	8.910	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	1874404	7.791	ppbv	99
64) n-propylbenzene	15.65	120	884508	9.193	ppbv	93
65) tert-Butylbenzene	16.83	119	2838082	8.562	ppbv	96
66) Benzyl Chloride	17.08	91	1313119	10.744	ppbv	97
67) sec-Butylbenzene	17.38	105	4135532	8.676	ppbv	99
69) p-Isopropyltoluene	17.74	119	3411363	8.944	ppbv	99
70) n-Butylbenzene	18.64	91	3893775	8.973	ppbv	100
71) 2-Chlorotoluene	15.54	91	2821346	8.992	ppbv	100
72) 4-Ethyltoluene	15.93	105	3034262	9.110	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2902273	8.966	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2912589	8.738	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1565184	8.862	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1665055	8.995	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1608626	8.896	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	1442920	11.697	ppbv	99
79) Naphthalene	22.32	128	3440836	11.418	ppbv #	97
80) Naphthalene, 2-methyl-	25.05	142	1674995	16.013	ppbv	99
81) 1,2,4-Trichlorobenzene	22.05	180	1751812m	10.684	ppbv	

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

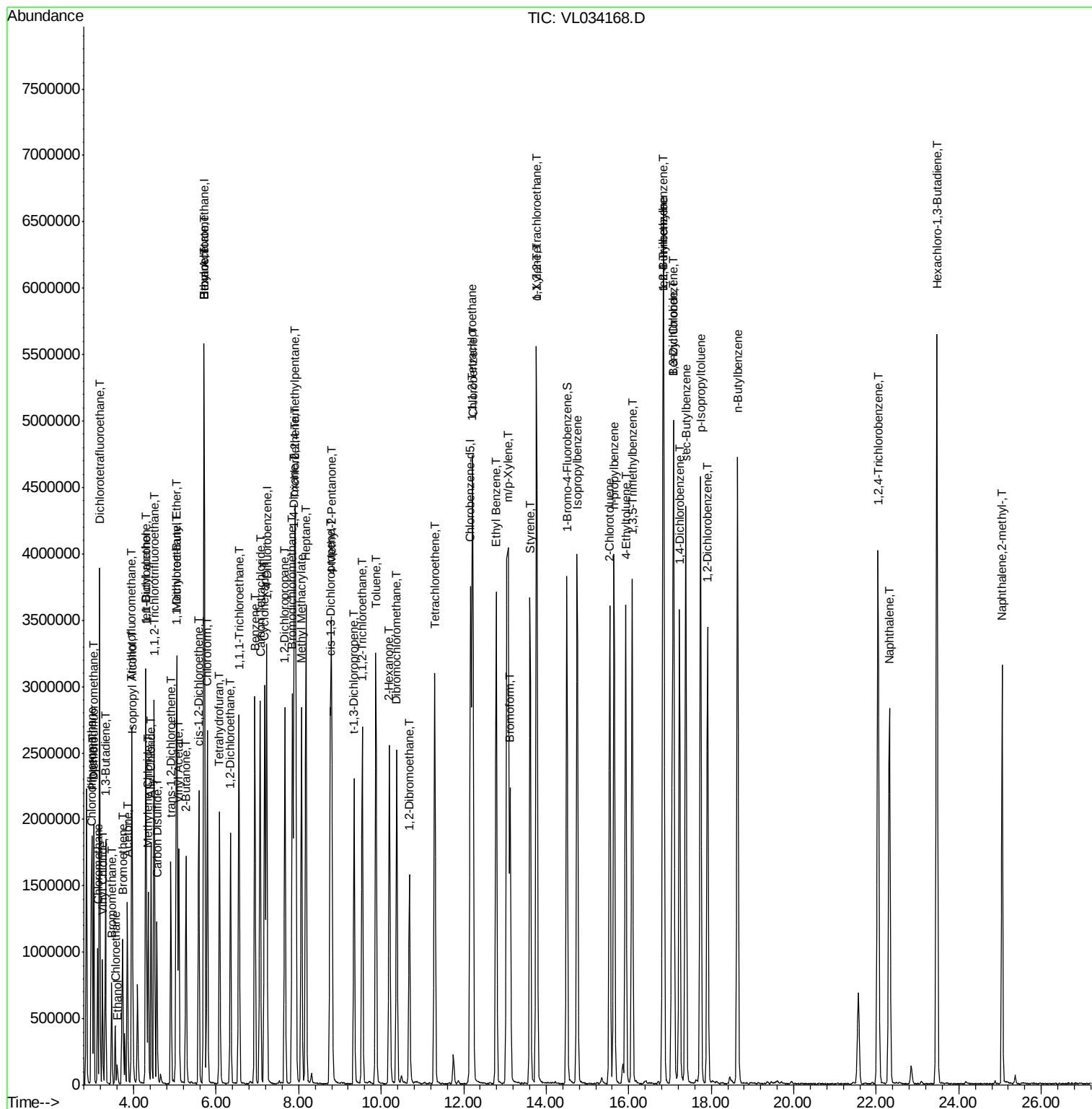
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091219\
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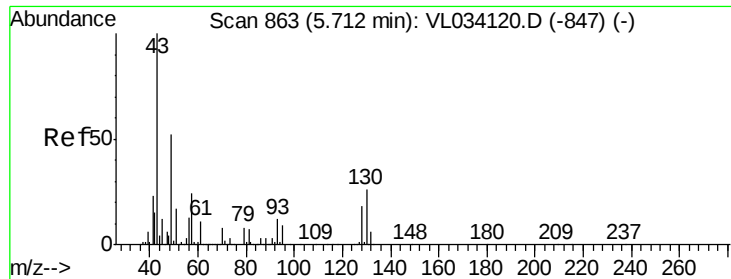
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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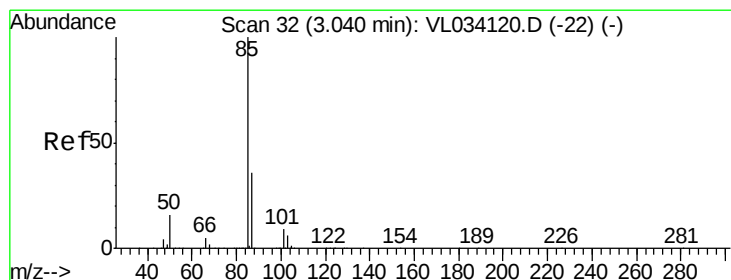
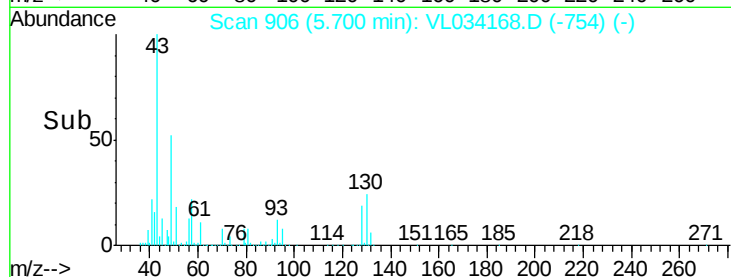
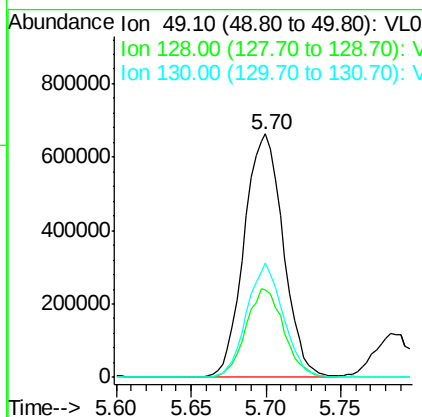
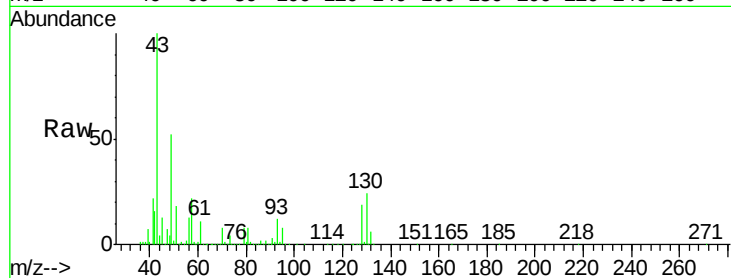
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.70 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 49 Resp: 1207906
 Ion Ratio Lower Upper
 49 100
 128 35.5 18.4 55.0
 130 43.9 23.5 70.6

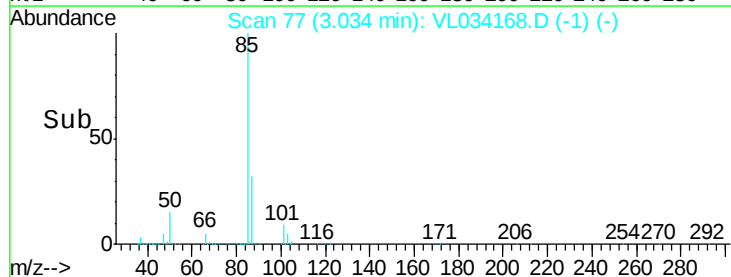
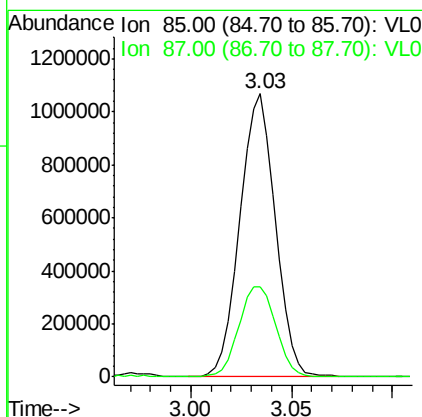
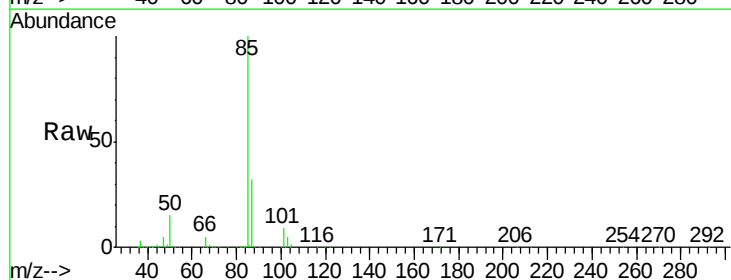
Manual Integrations
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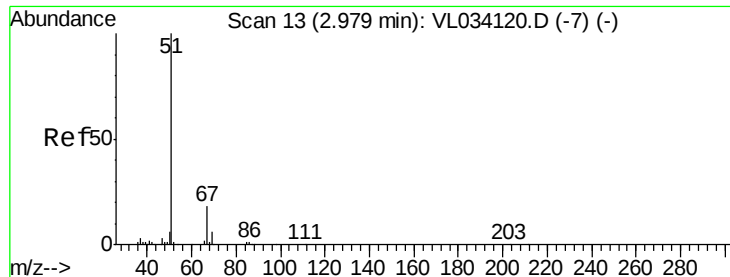
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#2
 Dichlorodifluoromethane
 Concen: 6.625 ppbv
 RT: 3.03 min Scan# 77
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion: 85 Resp: 1319930
 Ion Ratio Lower Upper
 85 100
 87 31.7 28.6 43.0





#3

Chlorodifluoromethane

Concen: 10.240 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1378744

Ion Ratio Lower Upper

51 100

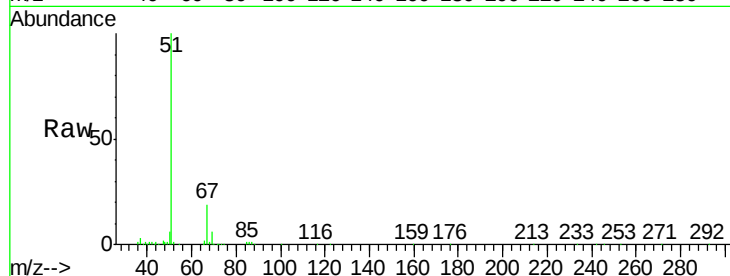
67 18.7 14.2 21.4

Manual Integrations

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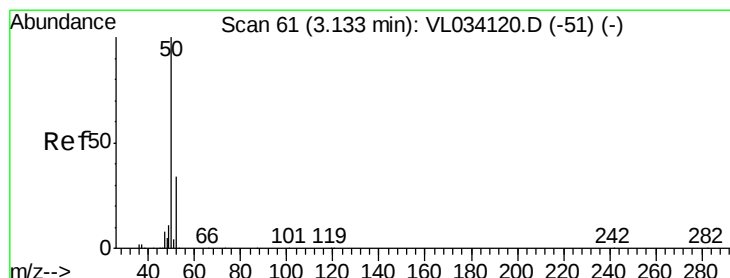
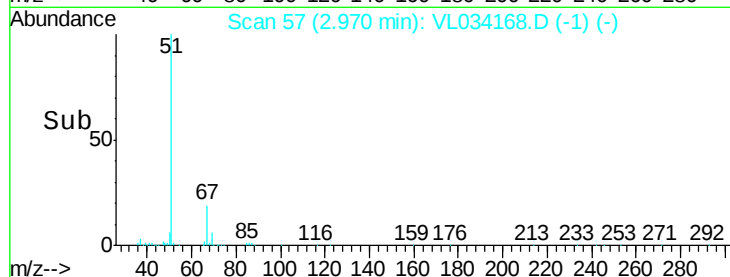
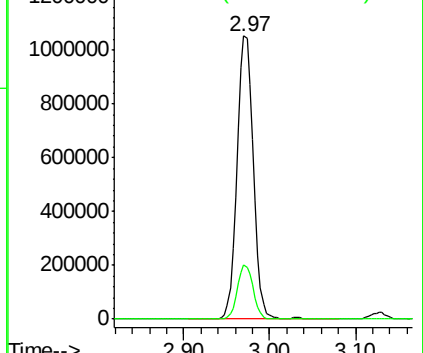
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.832 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL034168.D

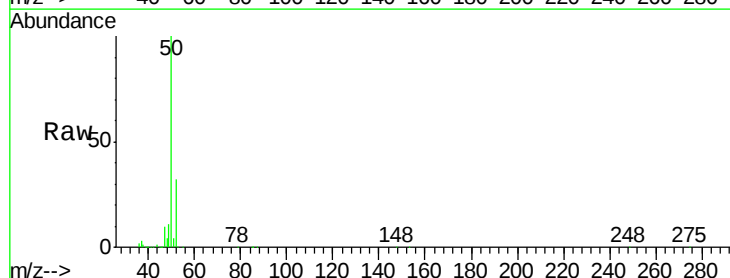
Acq: 13 Sep 2019 9:23

Tgt Ion: 50 Resp: 827661

Ion Ratio Lower Upper

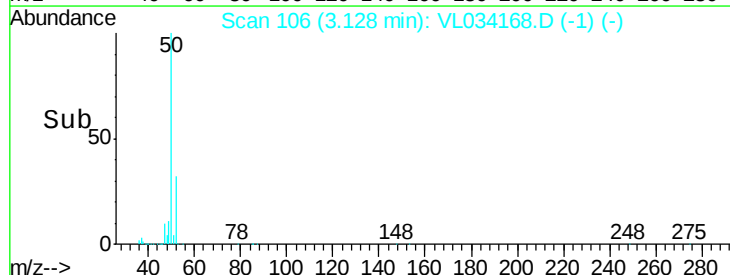
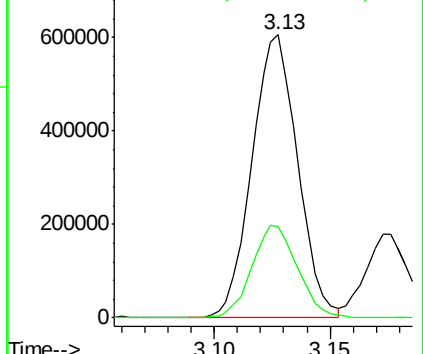
50 100

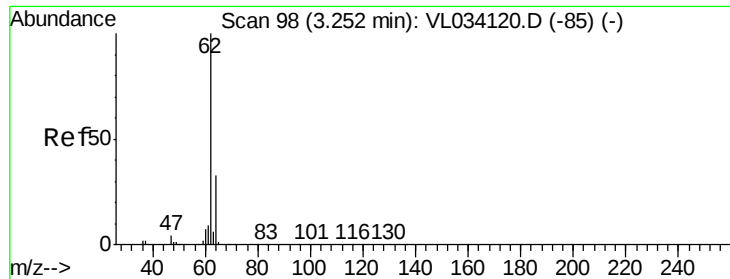
52 32.2 27.4 41.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.388 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 719845

Ion Ratio Lower Upper

62 100

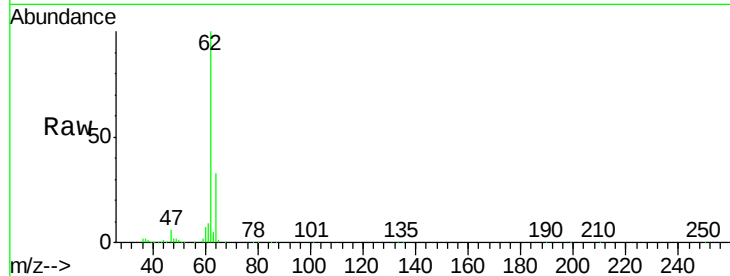
64 32.7 26.6 39.8

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.24

600000

500000

400000

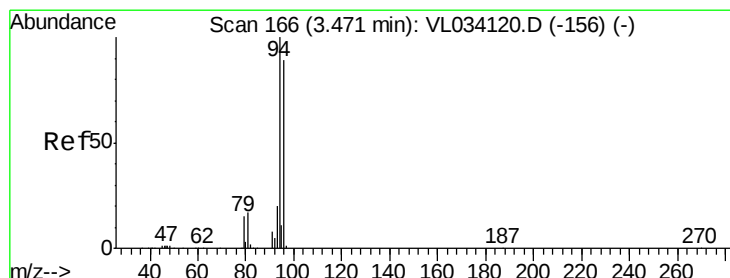
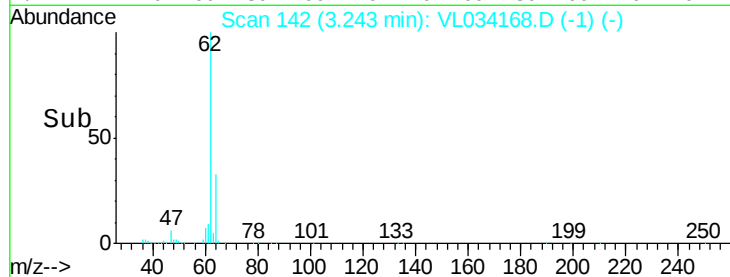
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.381 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL034168.D

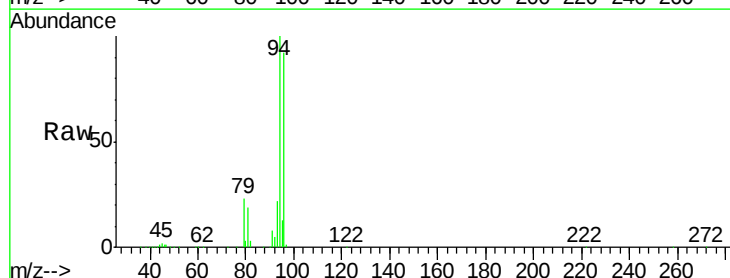
Acq: 13 Sep 2019 9:23

Tgt Ion: 94 Resp: 354991

Ion Ratio Lower Upper

94 100

96 91.8 71.4 107.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

300000

250000

200000

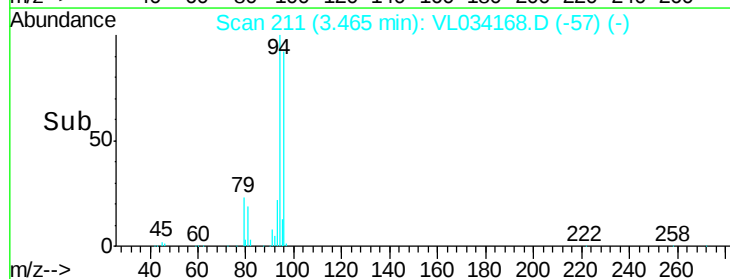
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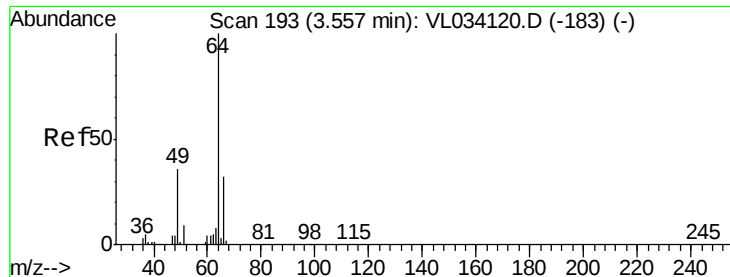
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.178 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 265885

Ion Ratio Lower Upper

64 100

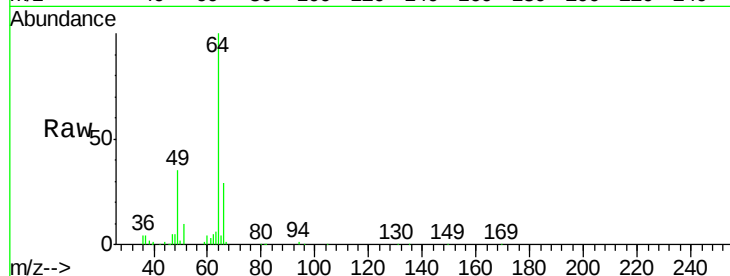
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Manual Integrations

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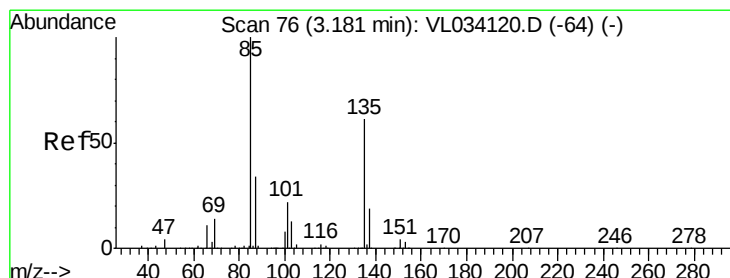
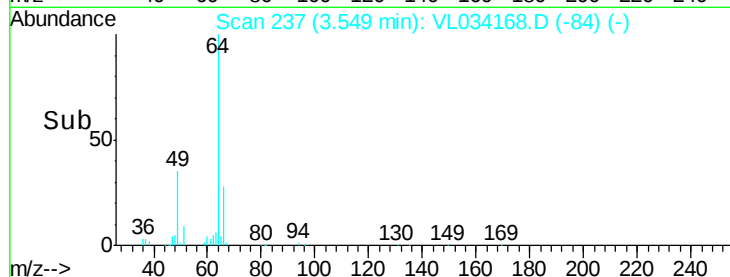
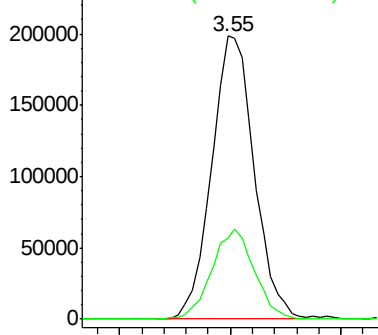
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.226 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL034168.D

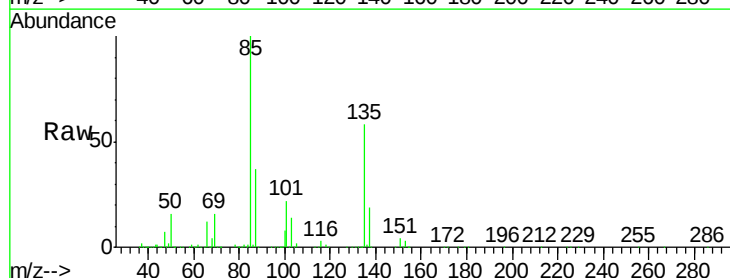
Acq: 13 Sep 2019 9:23

Tgt Ion: 85 Resp: 1479464

Ion Ratio Lower Upper

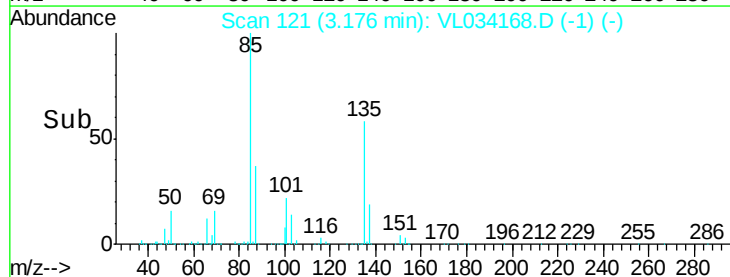
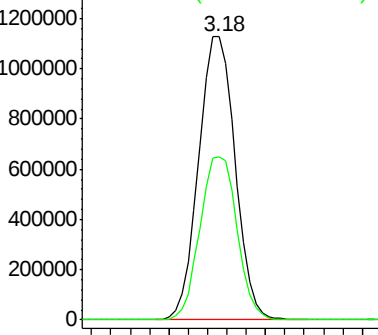
85 100

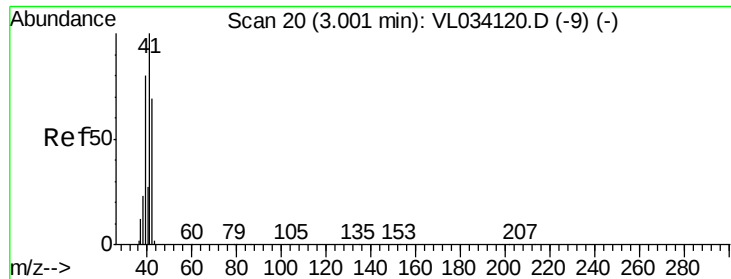
135 58.5 48.0 72.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.094 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 685085

Ion Ratio Lower Upper

41 100

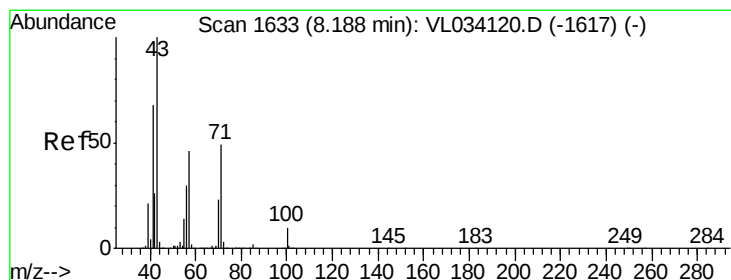
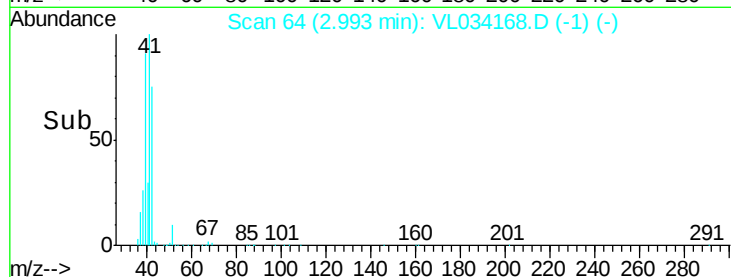
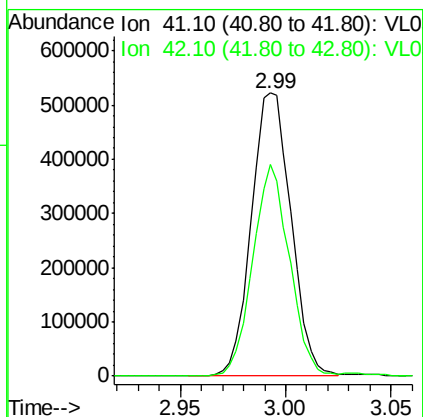
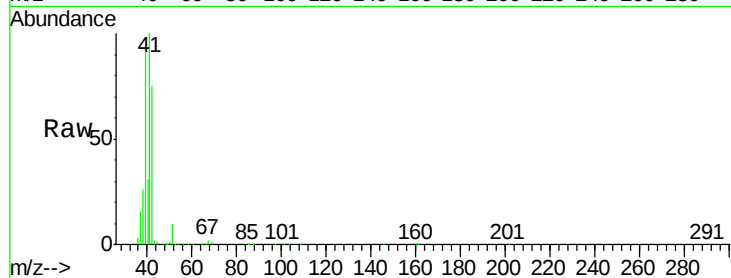
42 70.3 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 9.153 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

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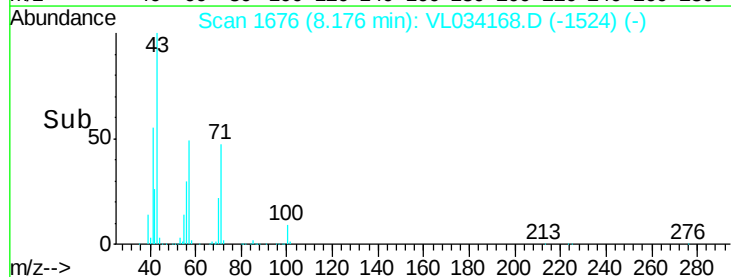
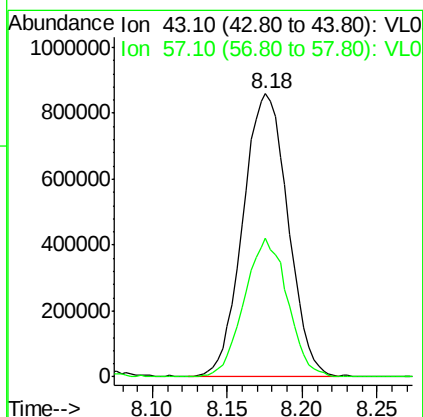
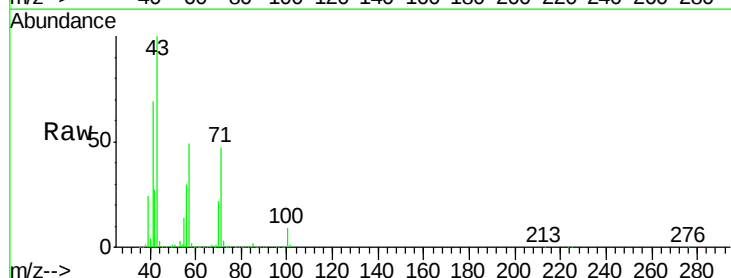
Acq: 13 Sep 2019 9:23

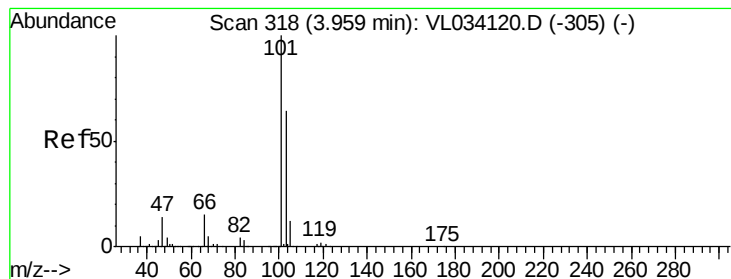
Tgt Ion: 43 Resp: 1789413

Ion Ratio Lower Upper

43 100

57 47.1 38.1 57.1





#11

Trichlorofluoromethane

Concen: 9.699 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1575892

Ion Ratio Lower Upper

101 100

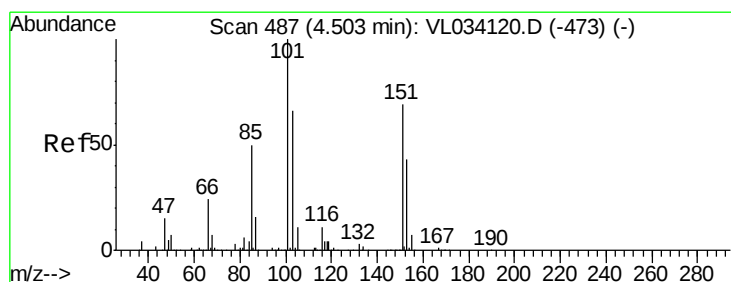
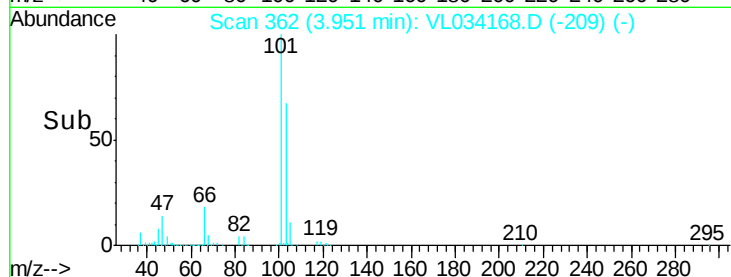
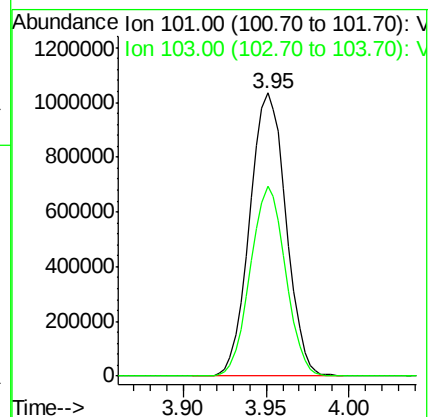
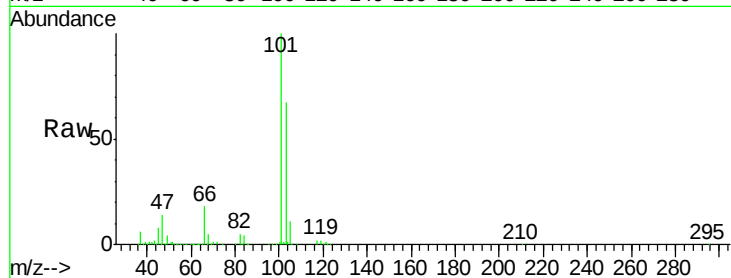
103 67.0 51.4 77.2

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.432 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.01 min

Lab File: VL034168.D

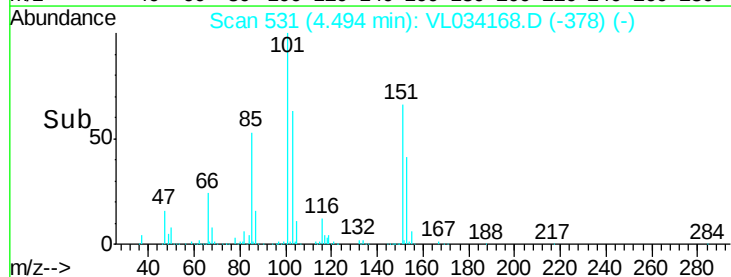
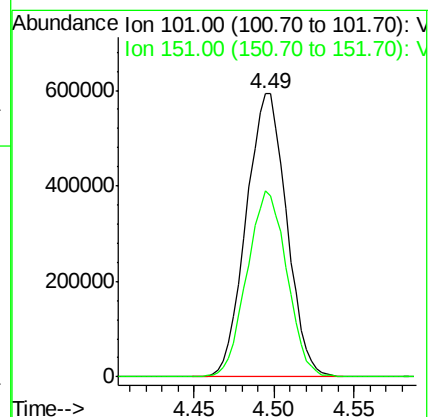
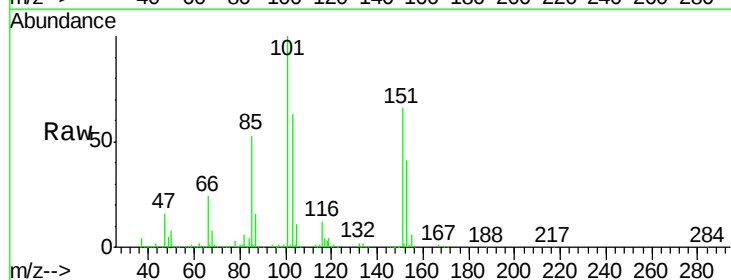
Acq: 13 Sep 2019 9:23

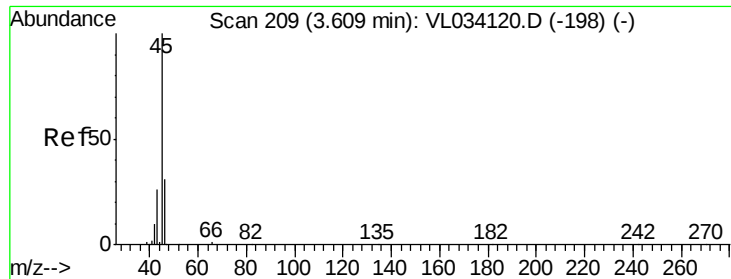
Tgt Ion:101 Resp: 1025292

Ion Ratio Lower Upper

101 100

151 64.9 53.0 79.6





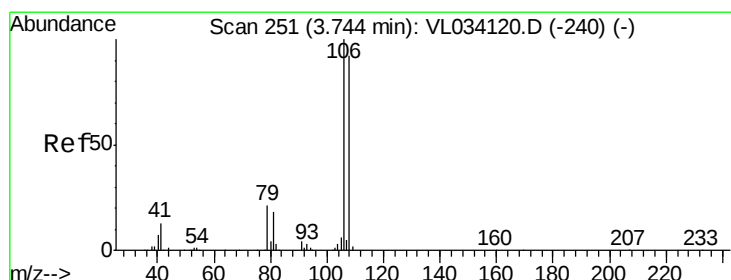
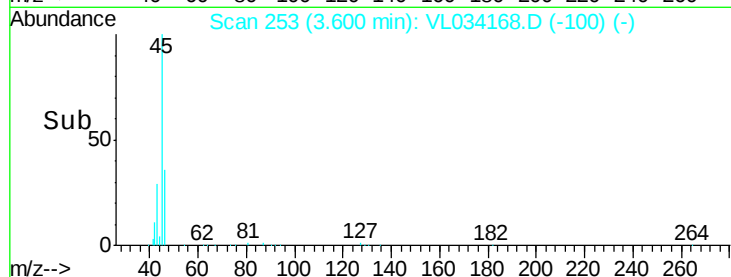
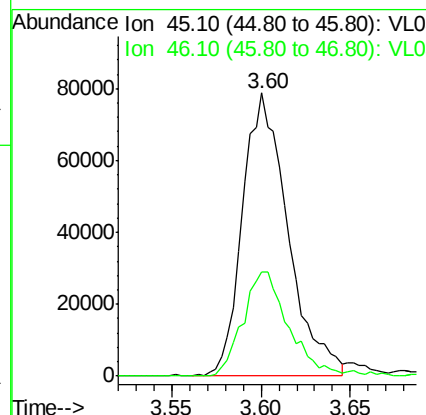
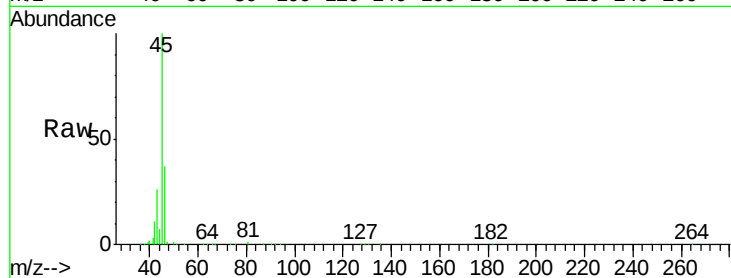
#13
Ethanol
Concen: 9.477 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	139860
Ion Ratio	100	Lower	Upper
46	37.6	15.0	60.0

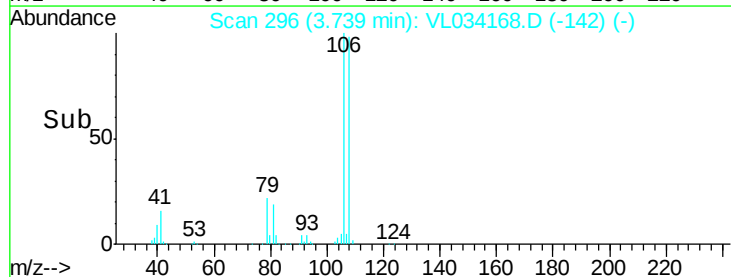
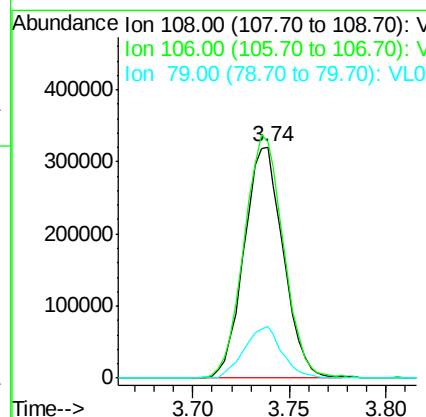
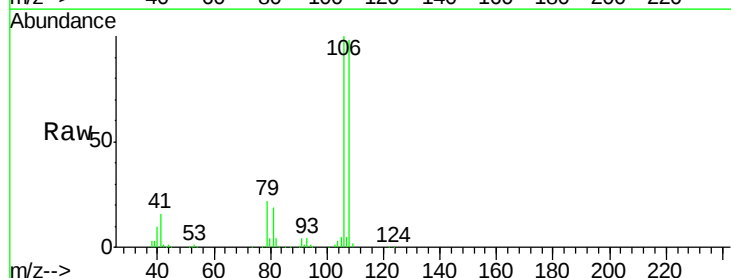
Manual Integrations
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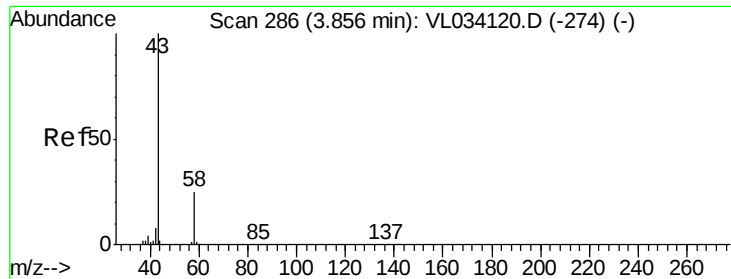
MMDadoda
9/14/2019 12:09:50 AM



#14
Bromoethene
Concen: 9.624 ppbv
RT: 3.74 min Scan# 296
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion	108	Resp	452941
Ion Ratio	100	Lower	Upper
106	105.9	87.2	130.8
79	21.7	16.5	24.7





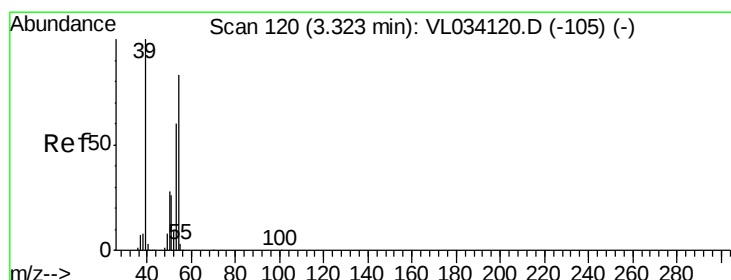
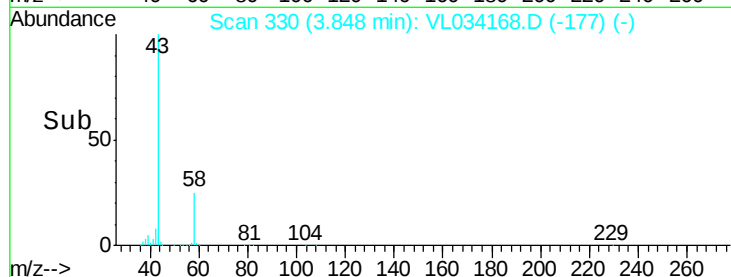
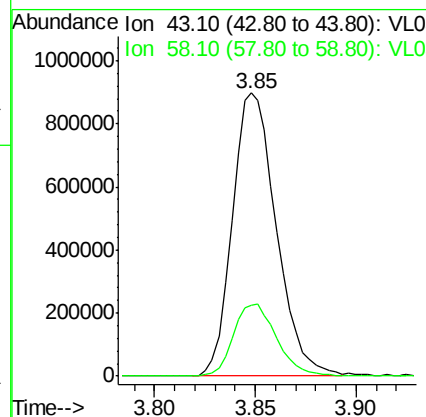
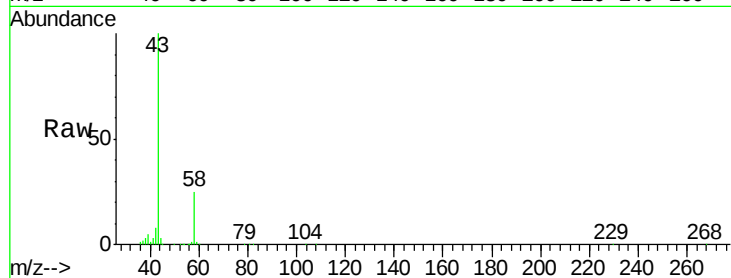
#15
Acetone
Concen: 9.371 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1364152
Ion Ratio Lower Upper
43 100
58 25.3 20.6 30.8

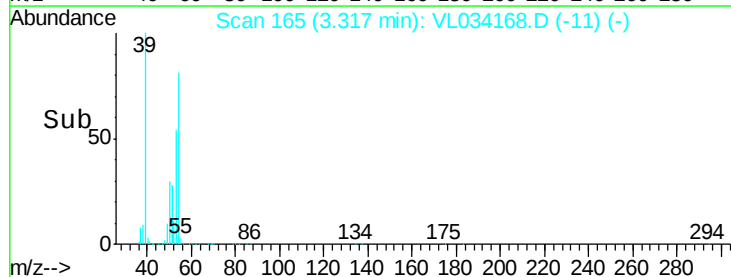
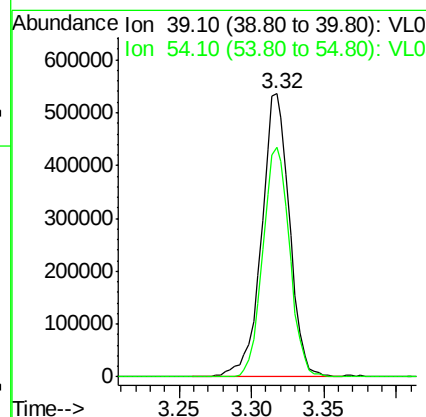
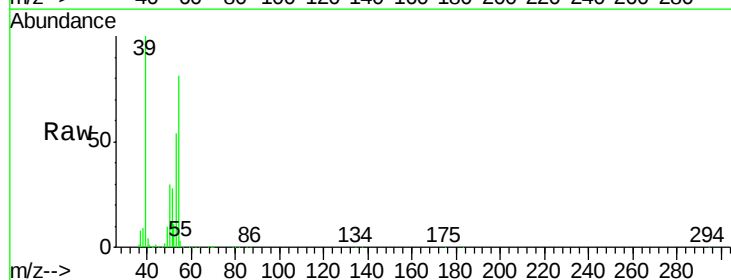
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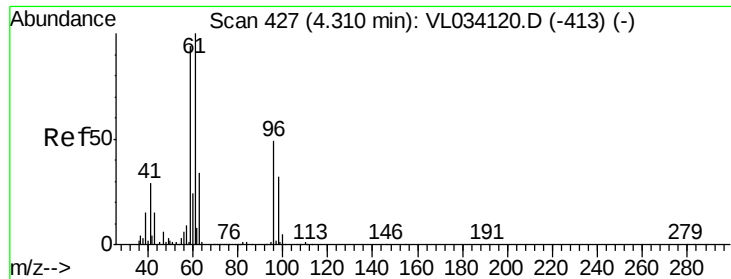
MMDadoda
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#16
1,3-Butadiene
Concen: 9.760 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion: 39 Resp: 719529
Ion Ratio Lower Upper
39 100
54 78.5 63.5 95.3





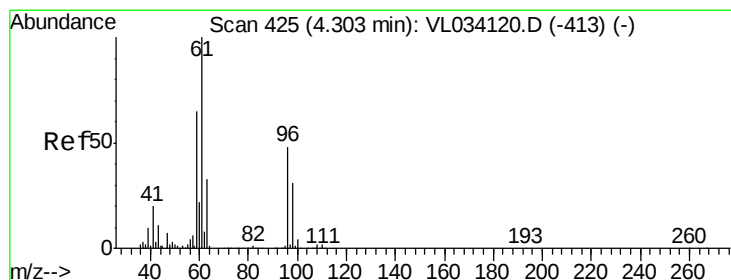
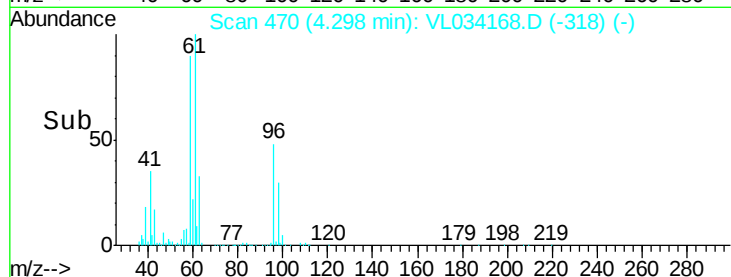
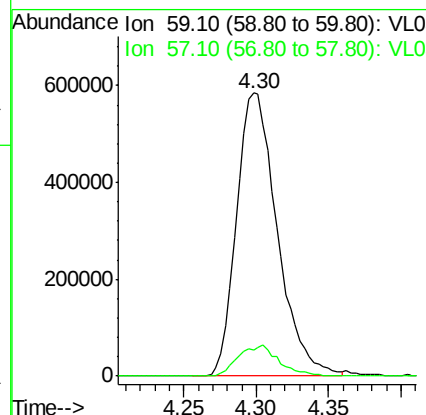
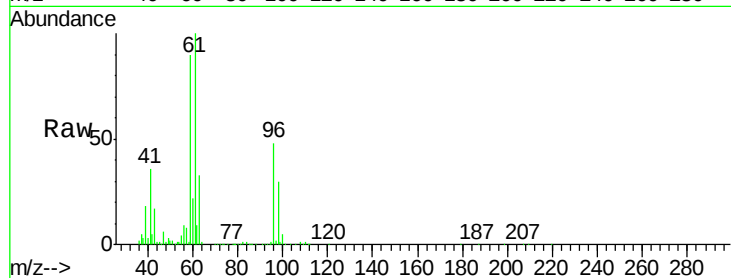
#17
tert-Butyl alcohol
Concen: 10.806 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1141980
Ion Ratio Lower Upper
59 100
57 11.1 8.6 12.8

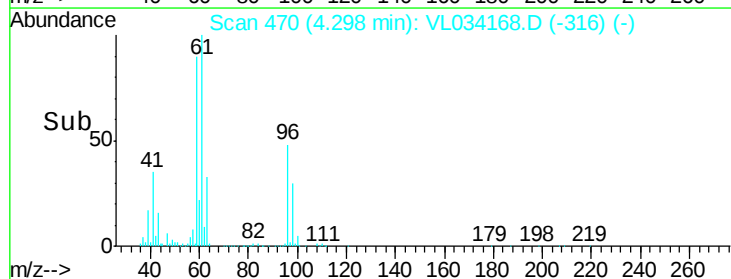
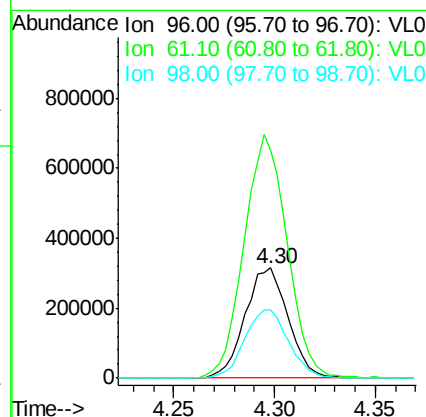
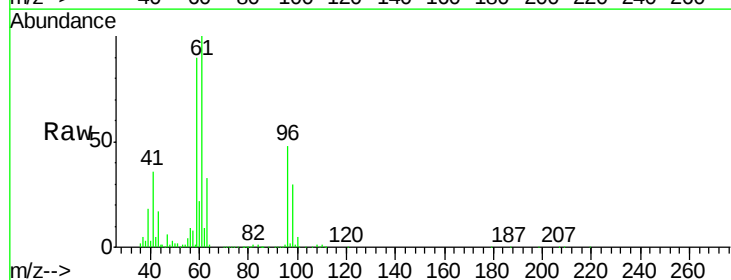
Manual Integrations
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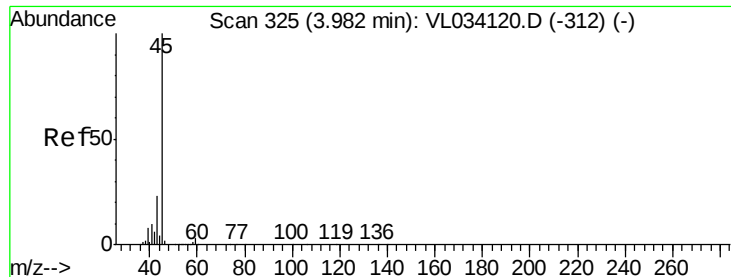
MMDadoda
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#18
1,1-Dichloroethene
Concen: 9.480 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion: 96 Resp: 470797
Ion Ratio Lower Upper
96 100
61 206.8 165.8 248.8
98 61.6 50.8 76.2





#19

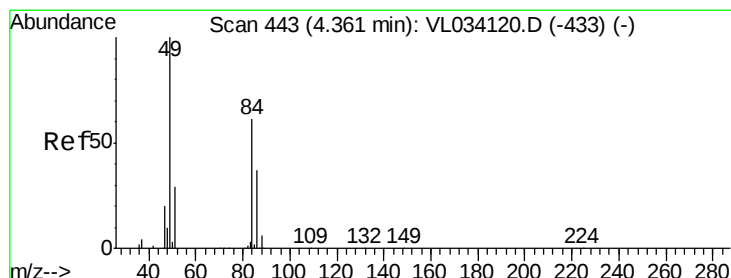
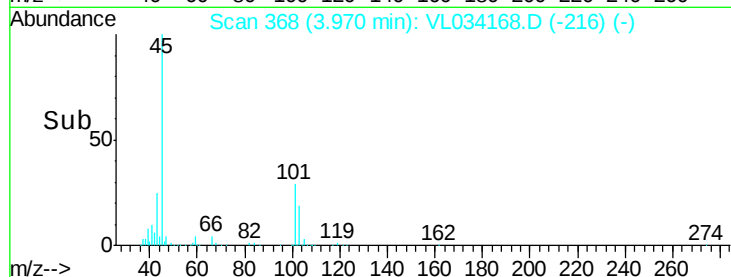
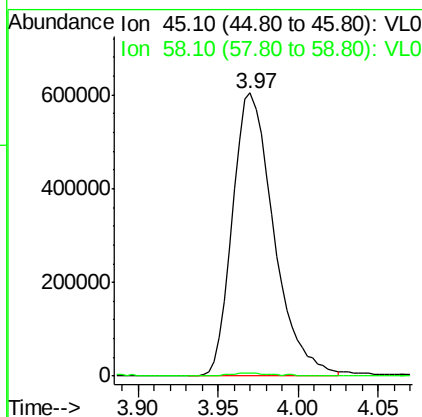
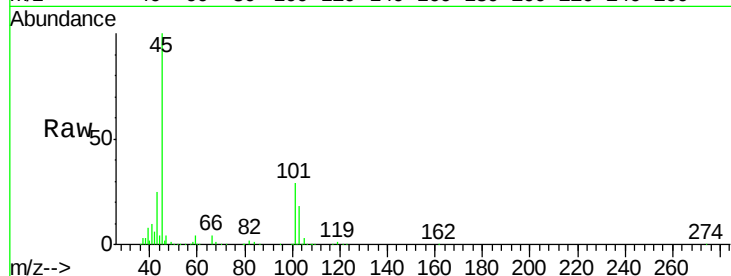
Isopropyl Alcohol
 Concen: 10.823 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1063425
 Ion Ratio Lower Upper
 45 100
 58 1.5 1.0 1.6

Manual Integrations
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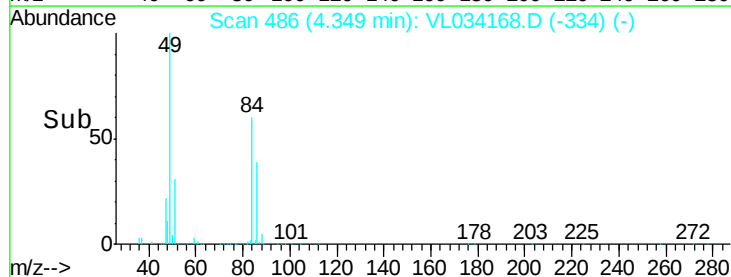
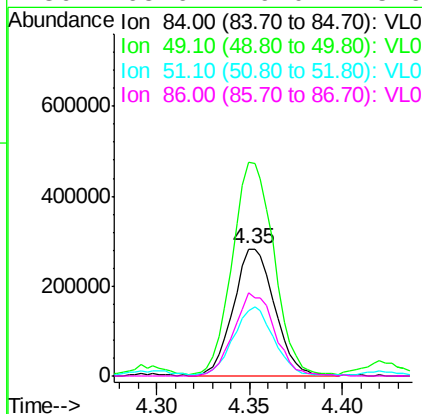
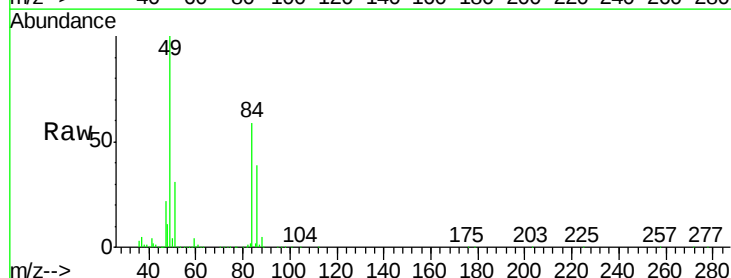
MMDadoda
 9/14/2019 12:09:50 AM

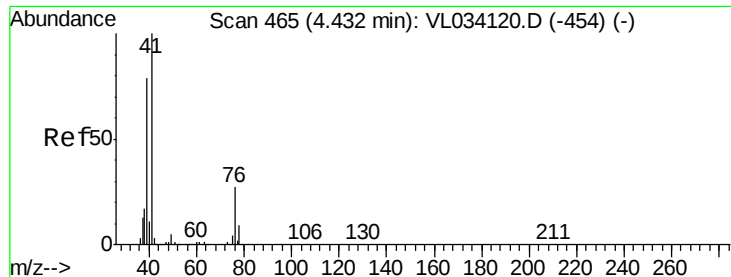


#20

Methylene Chloride
 Concen: 9.047 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion: 84 Resp: 435450
 Ion Ratio Lower Upper
 84 100
 49 167.2 131.0 196.6
 51 51.2 38.1 57.1
 86 65.6 49.0 73.6





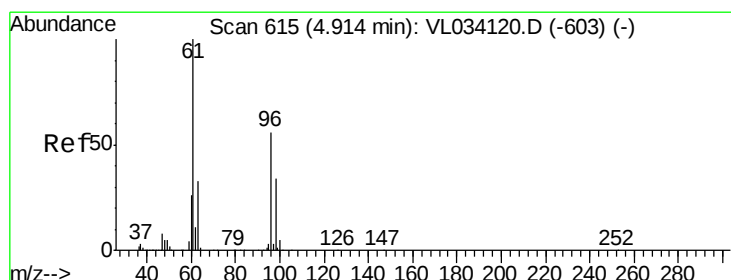
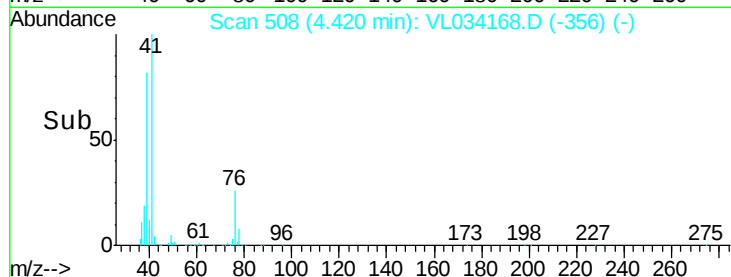
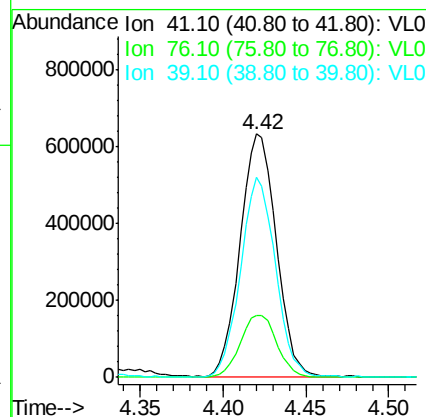
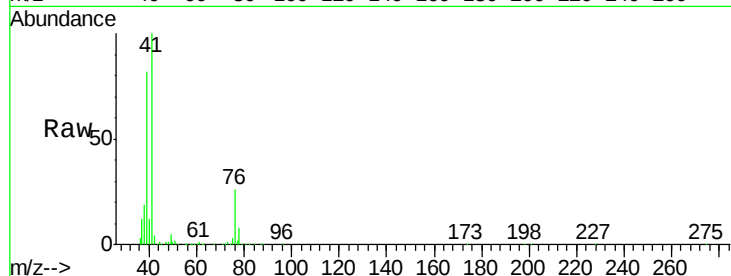
#21
Allvl Chloride
Concen: 9.929 ppbv
RT: 4.42 min Scan# 508
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	41	Resp:	952942
Ion Ratio	Lower	Upper	
41	100		
76	26.1	21.6	32.4
39	80.2	65.0	97.4

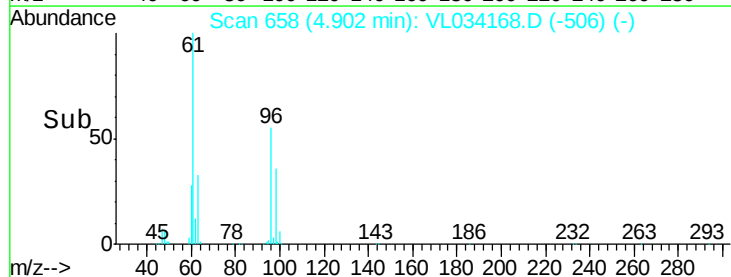
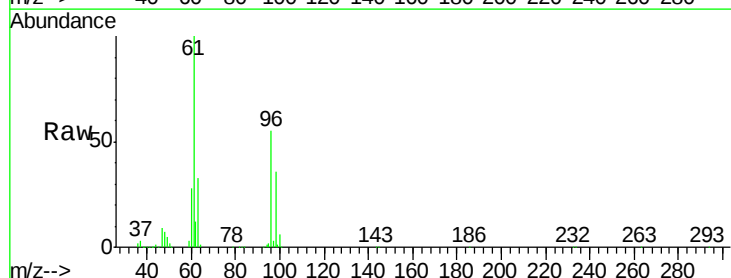
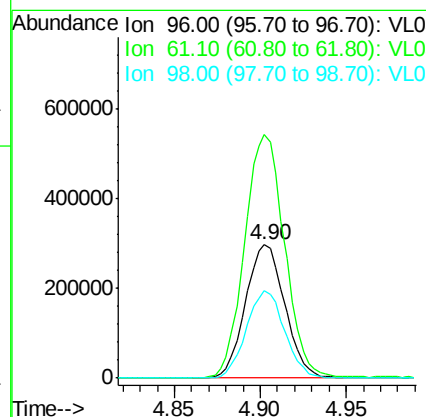
Manual Integrations
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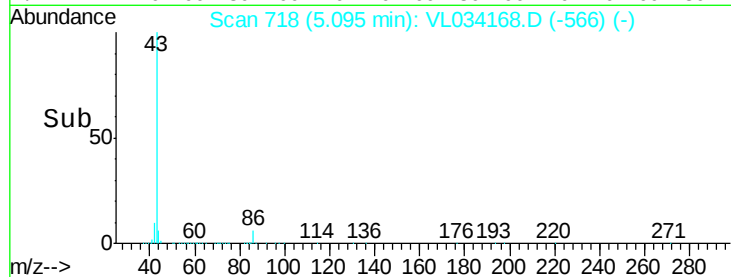
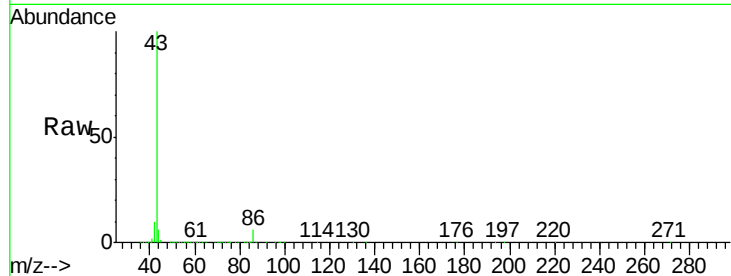
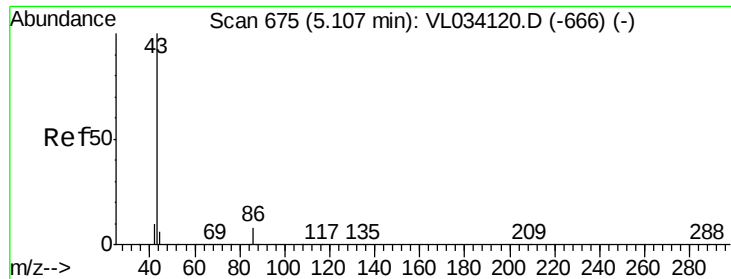
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#22
trans-1,2-Dichloroethene
Concen: 9.444 ppbv
RT: 4.90 min Scan# 658
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion:	96	Resp:	469473
Ion Ratio	Lower	Upper	
96	100		
61	183.2	143.1	214.7
98	65.9	49.0	73.4





#23

Vinyl Acetate

Concen: 9.754 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Tot Ion: 43 Resp: 2409123

Ion Ratio Lower Upper

43 100

86 6.1 5.5 8.3

42 10.2 8.2 12.4

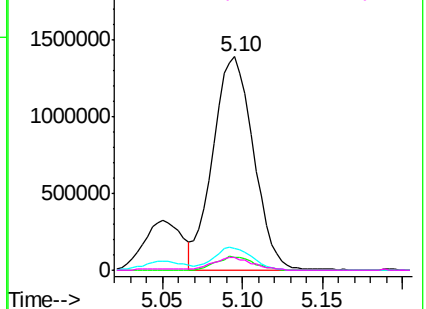
44 5.6 4.3 6.5

Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Instrument :

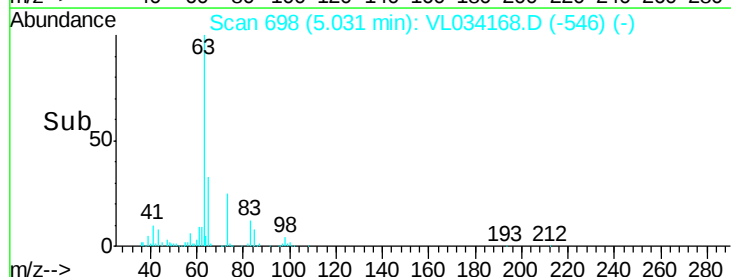
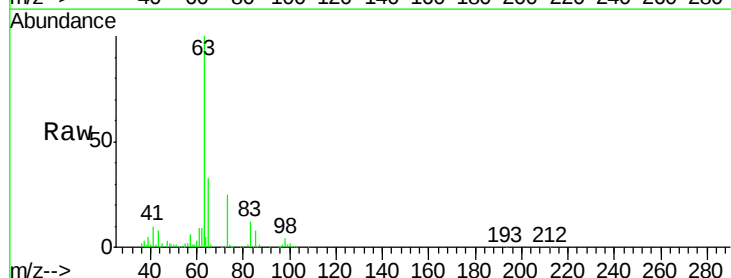
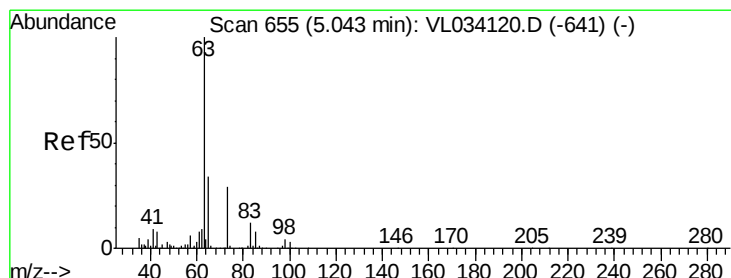
MSVOA_L

ClientSampleId :

VSTDCCC010EC

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#24

1,1-Dichloroethane

Concen: 9.491 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Tgt Ion: 63 Resp: 1555732

Ion Ratio Lower Upper

63 100

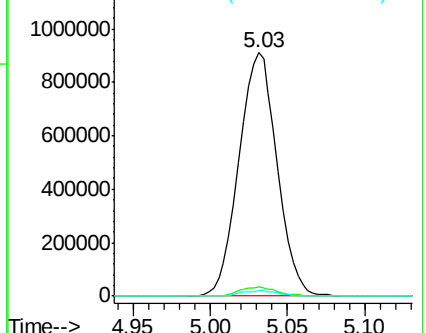
98 3.7 2.1 6.2

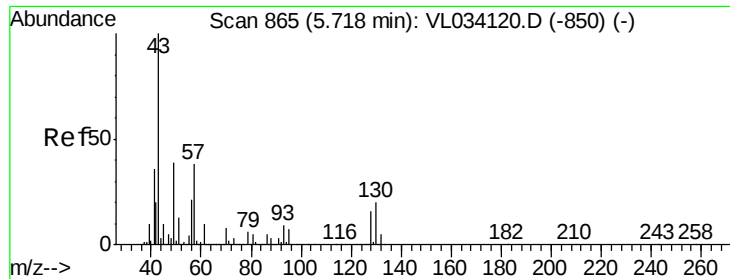
100 2.4 1.4 4.0

Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





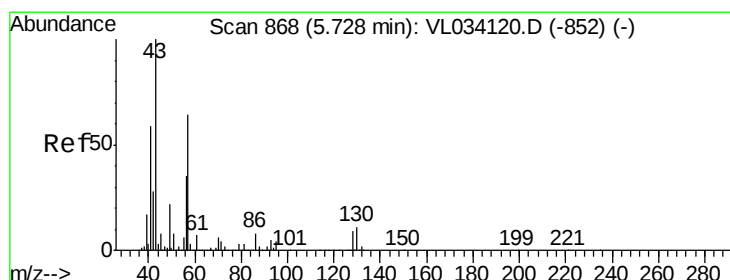
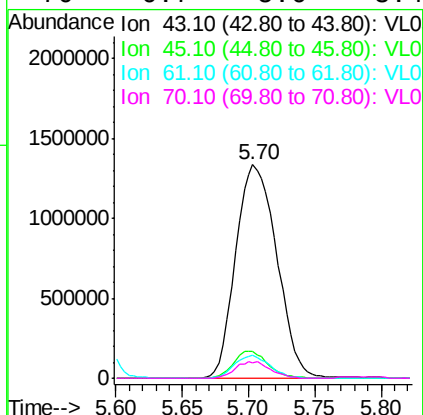
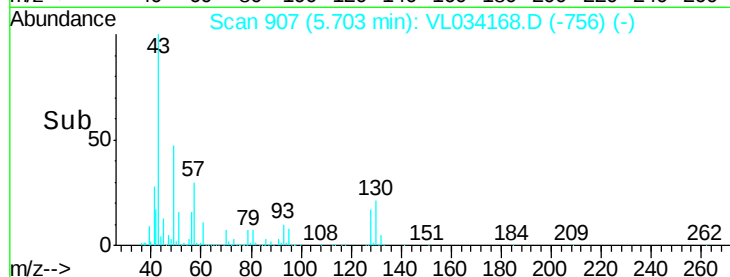
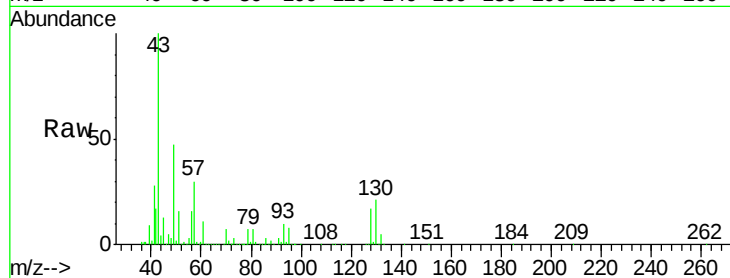
#25
Ethyl Acetate
Concen: 8.999 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.02 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	43	Resp:	2875843
Ion	Ratio	Lower	Upper
43	100		
45	10.7	8.2	12.4
61	9.3	7.4	11.2
70	6.7	5.6	8.4

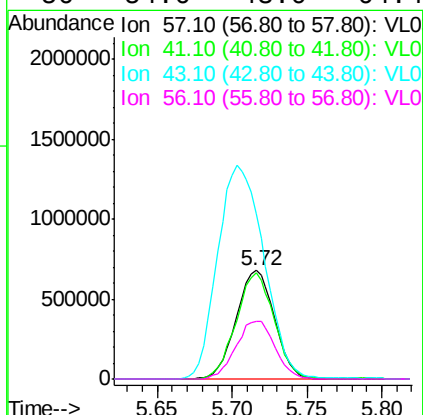
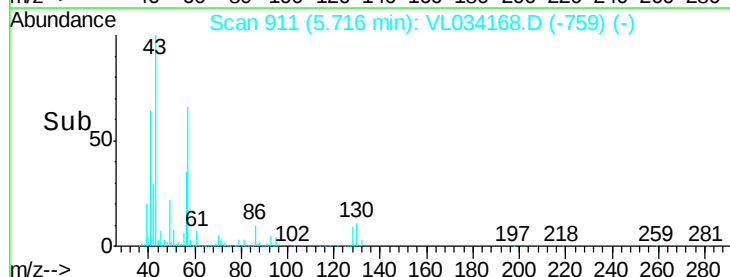
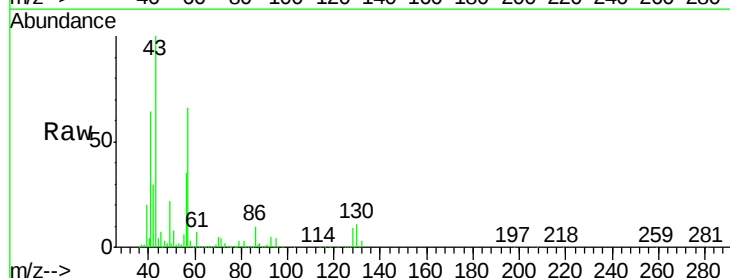
Manual Integrations
APPROVED

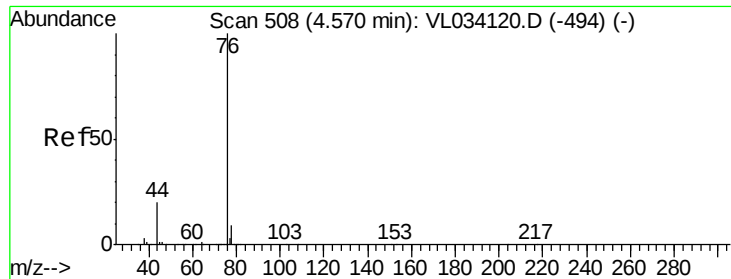
MMDadoda
9/14/2019 12:09:50 AM



#26
Hexane
Concen: 8.491 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion:	57	Resp:	1206296
Ion	Ratio	Lower	Upper
57	100		
41	98.0	76.6	115.0
43	239.6	189.2	283.8
56	54.6	43.0	64.4





#27

Carbon Disulfide

Concen: 10.267 ppbv

RT: 4.56 min Scan# 552

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1316389

Ion Ratio Lower Upper

76 100

44 21.7 17.6 26.4

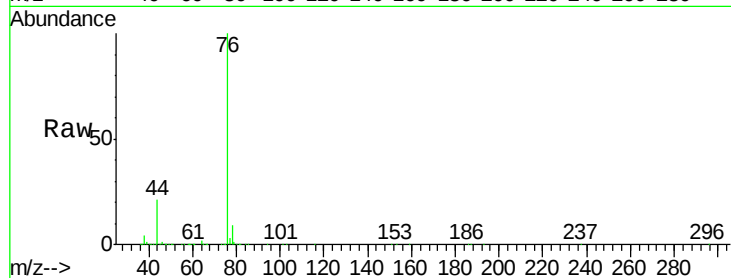
78 9.3 7.3 10.9

Manual Integrations

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MMDadoda

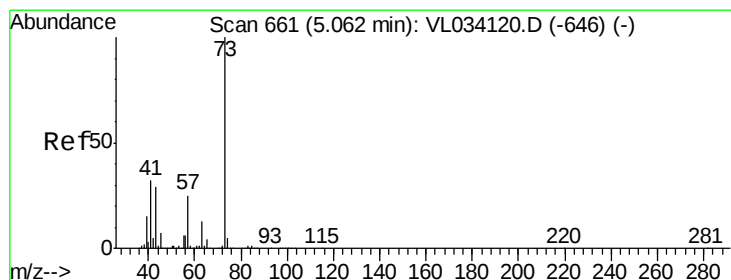
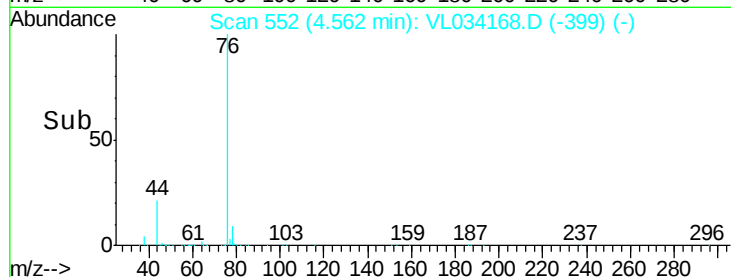
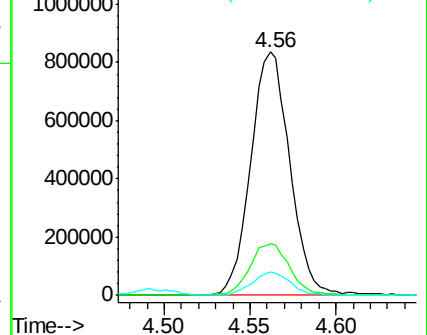
9/14/2019 12:09:50 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.242 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034168.D

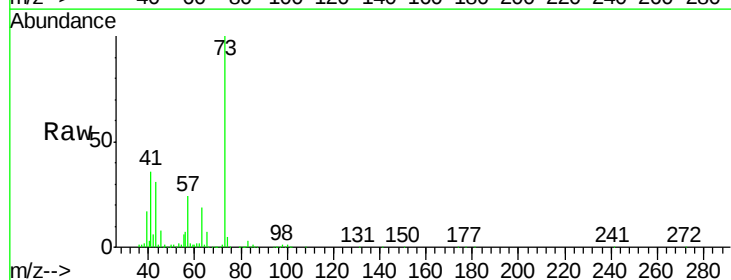
Acq: 13 Sep 2019 9:23

Tgt Ion: 73 Resp: 1923825

Ion Ratio Lower Upper

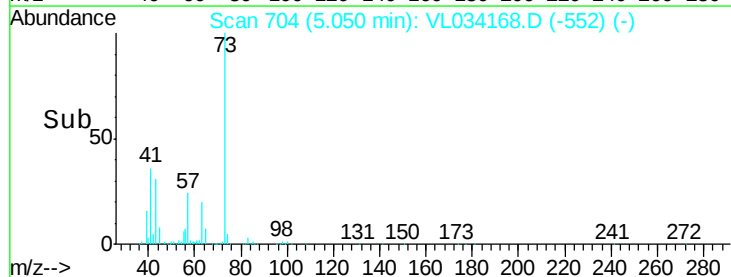
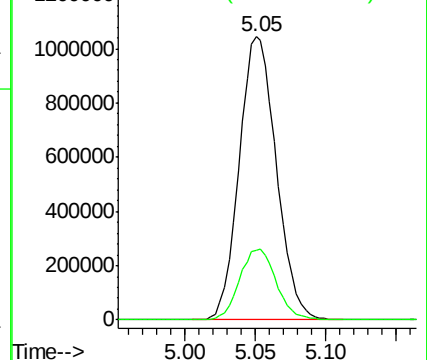
73 100

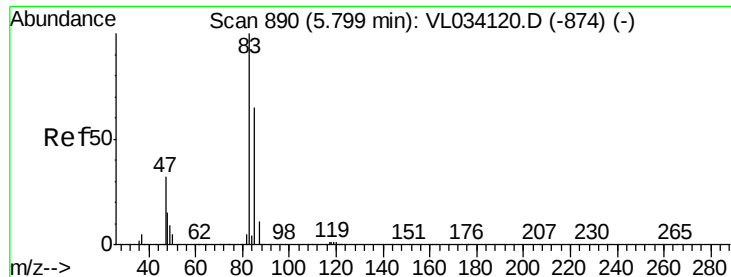
57 24.9 19.8 29.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.247 ppbv

RT: 5.78 min Scan# 932

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1771932

Ion Ratio Lower Upper

83 100

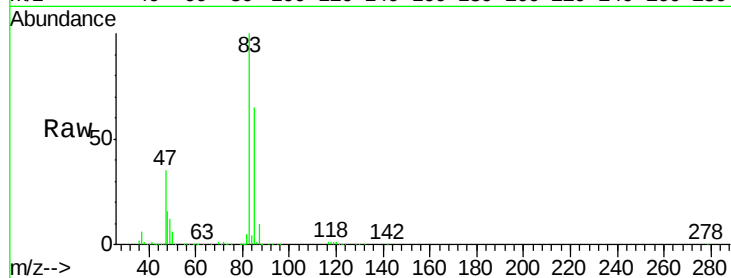
85 64.5 51.8 77.6

Manual Integrations

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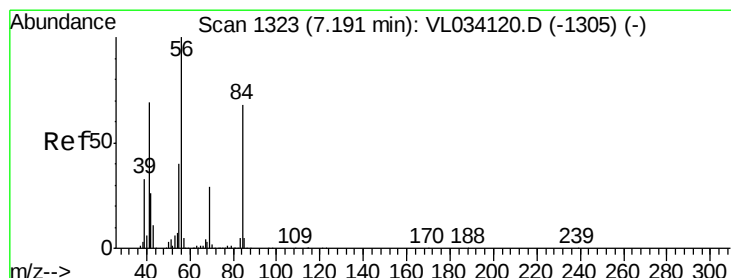
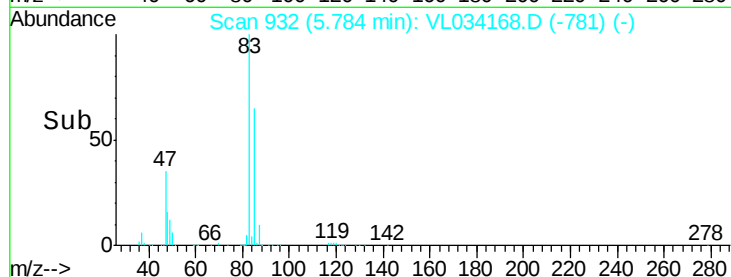
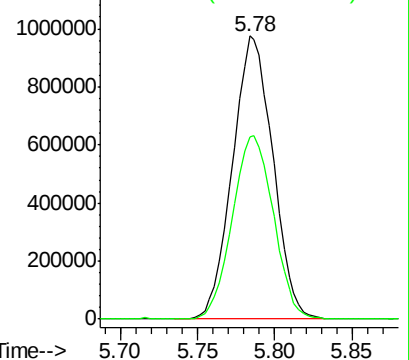
MMDadoda

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 9.173 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

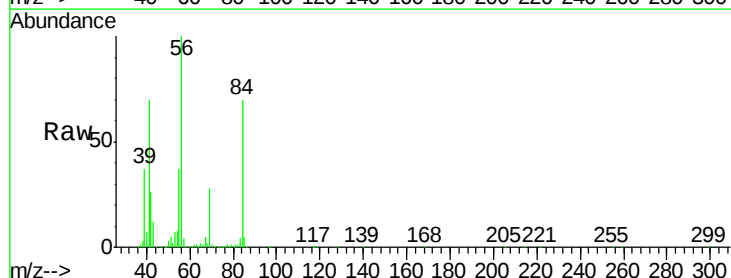
Tgt Ion: 84 Resp: 942230

Ion Ratio Lower Upper

84 100

56 155.8 122.6 183.8

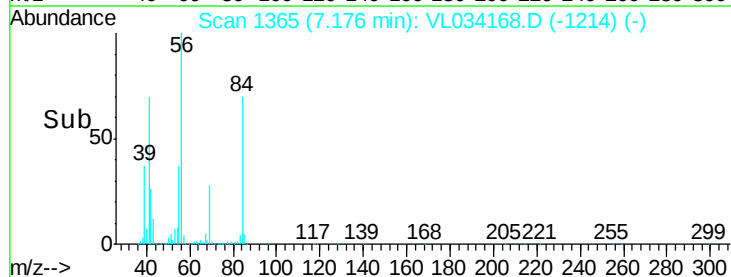
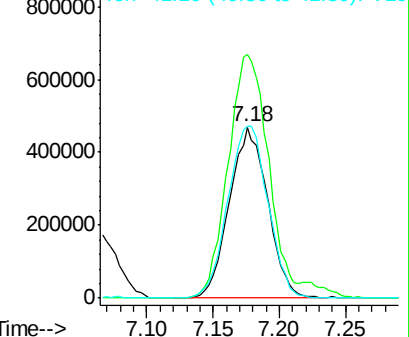
41 105.6 79.1 118.7

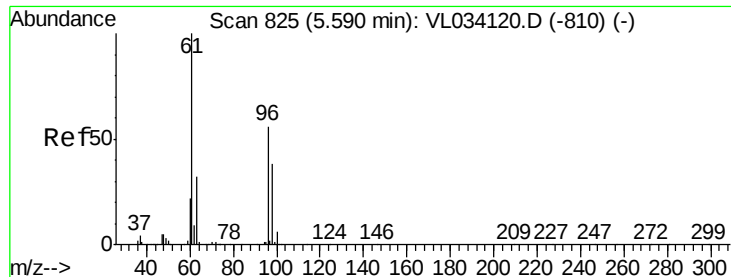


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

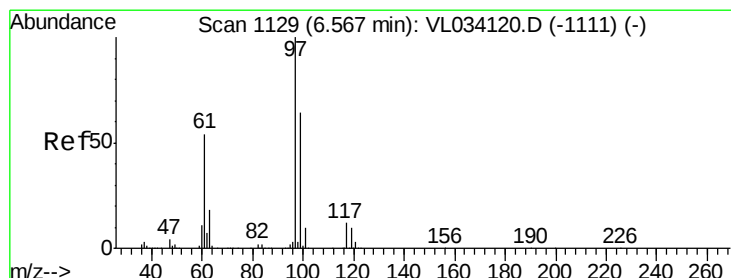
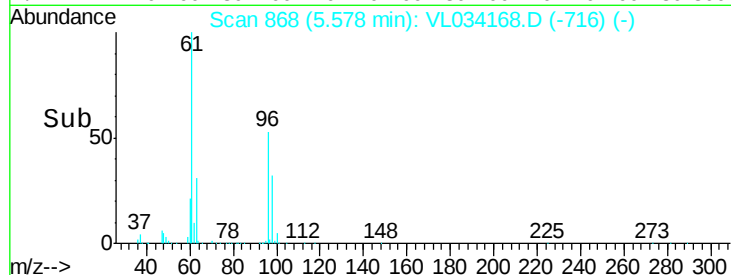
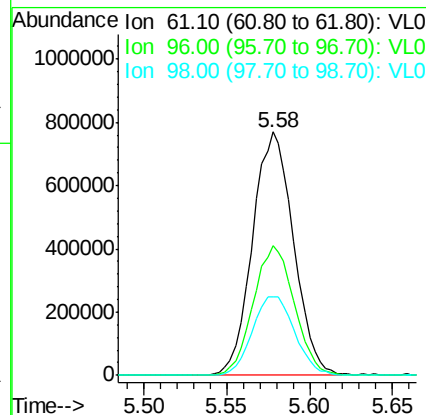
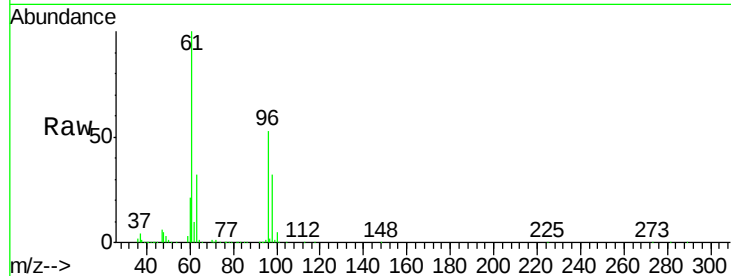
cis-1,2-Dichloroethene
Concen: 9.751 ppbv
RT: 5.58 min Scan# 868
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	53.0	44.4	66.6
98	32.1	30.0	45.0

Manual Integrations
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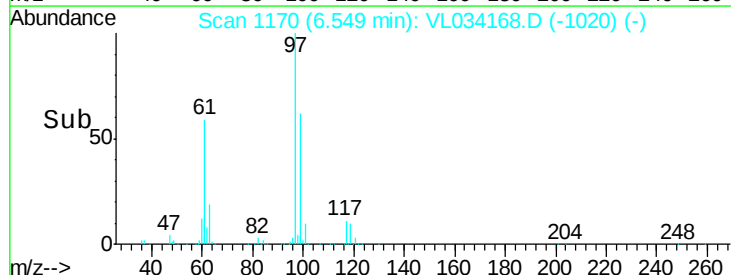
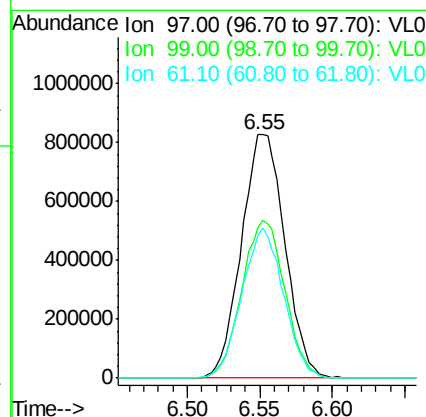
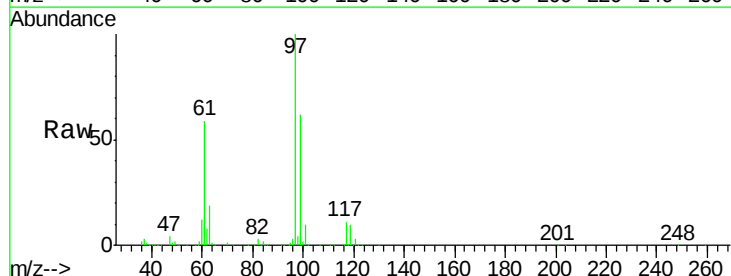
MMDadoda
9/14/2019 12:09:50 AM

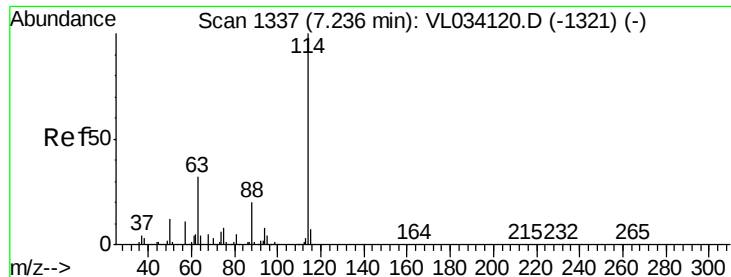


#32

1,1,1-Trichloroethane
Concen: 9.524 ppbv
RT: 6.55 min Scan# 1170
Delta R.T. -0.02 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.7	77.5
61	59.6	44.0	66.0





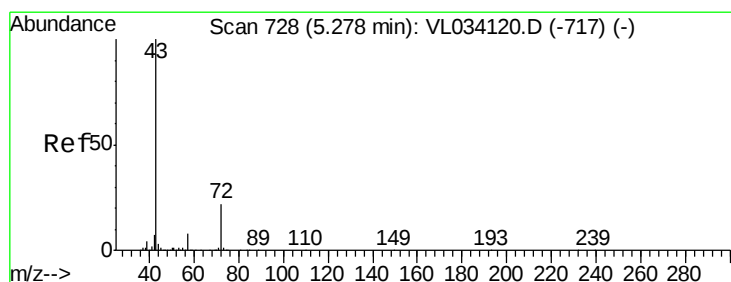
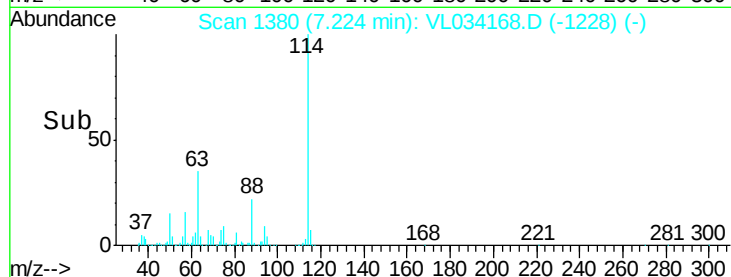
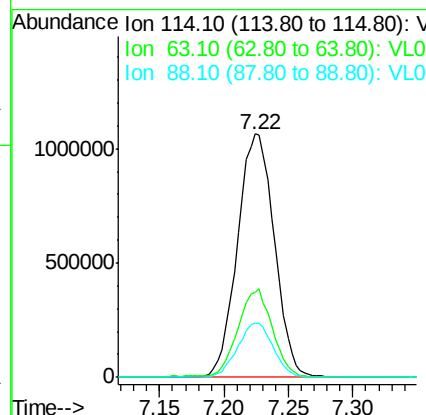
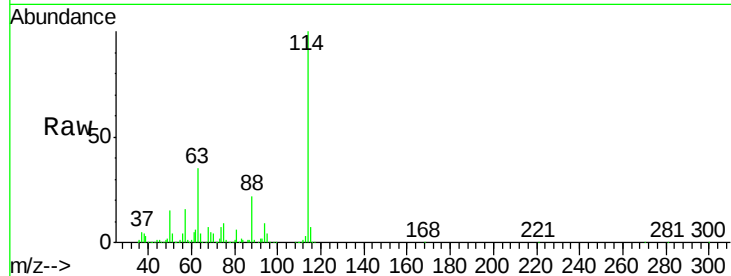
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	34.6	25.5	38.3
88	21.4	16.8	25.2

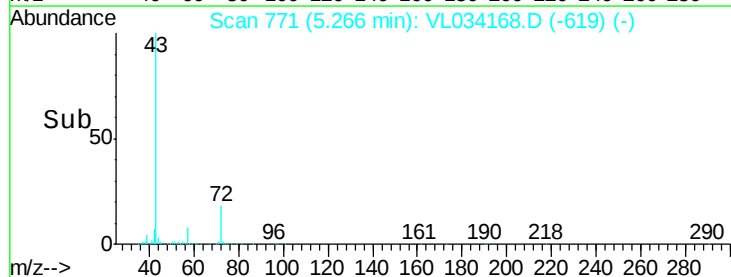
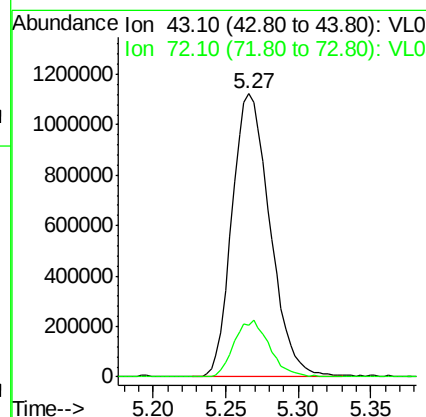
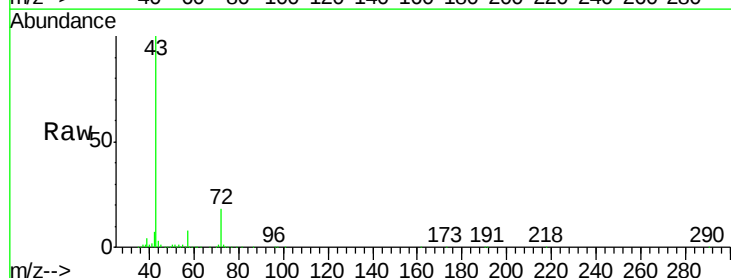
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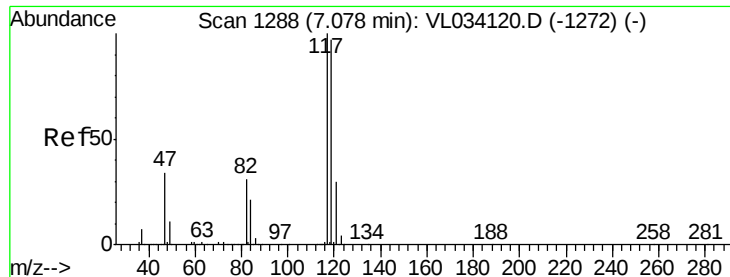
MMDadoda
 9/14/2019 12:09:50 AM



#34
 2-Butanone
 Concen: 9.979 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.0	16.5	24.7





#35

Carbon Tetrachloride

Concen: 10.357 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1707834

Ion Ratio Lower Upper

117 100

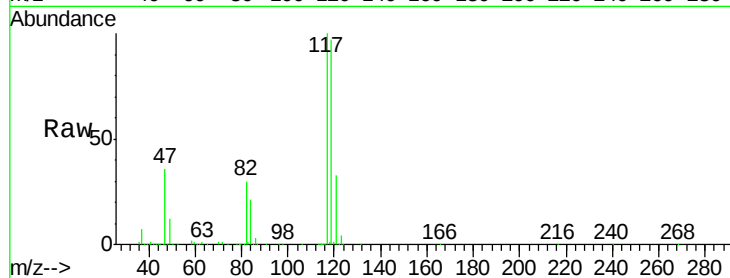
119 96.6 77.2 115.8

121 33.3 24.2 36.4

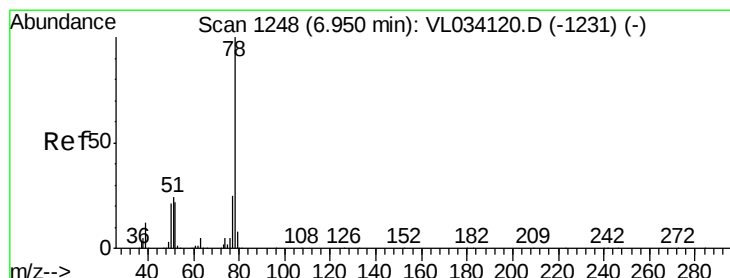
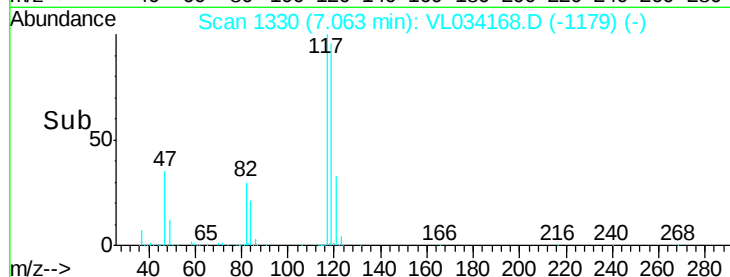
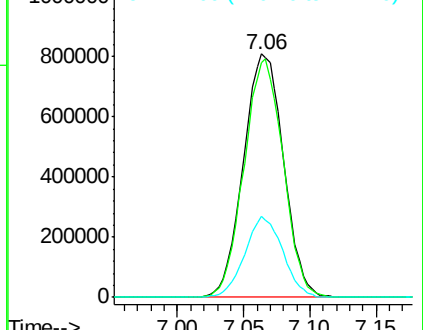
Manual Integrations
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9/14/2019 12:09:50 AM



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: 9.234 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

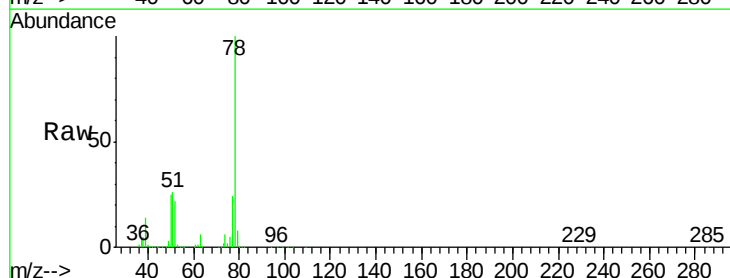
Tgt Ion: 78 Resp: 2232424

Ion Ratio Lower Upper

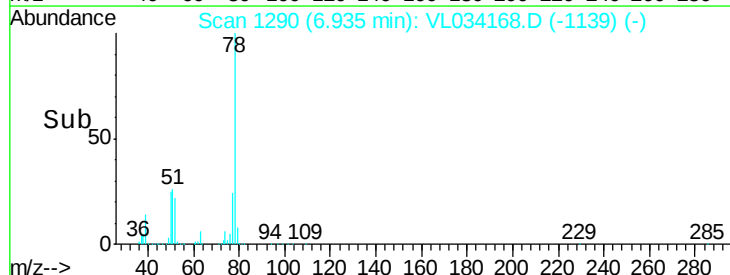
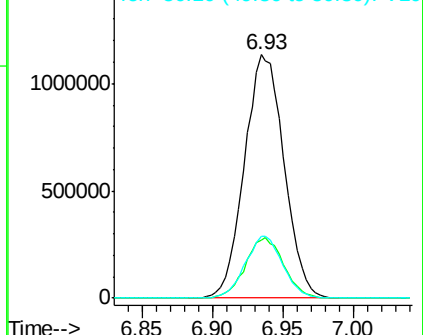
78 100

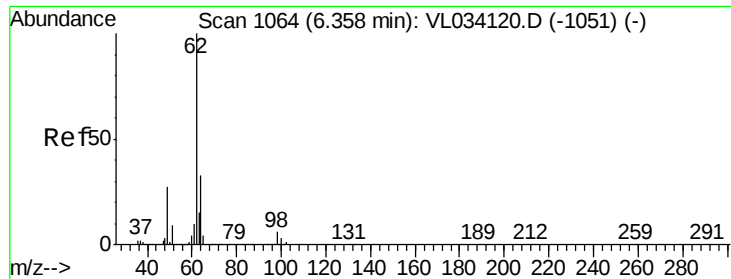
77 24.0 20.3 30.5

50 25.4 16.9 25.3#



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





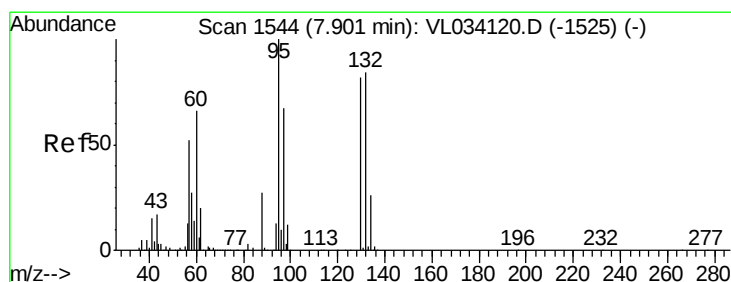
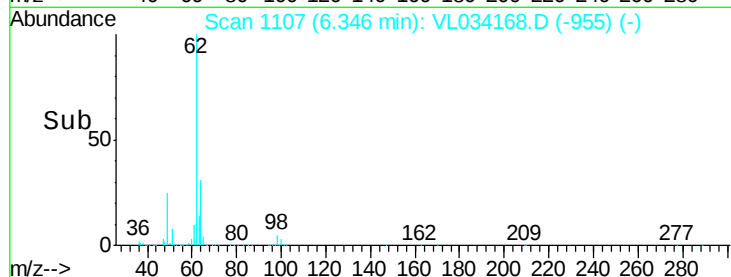
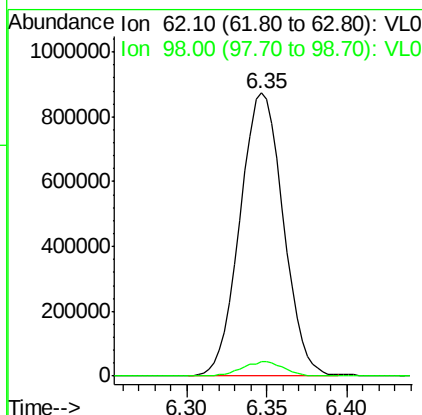
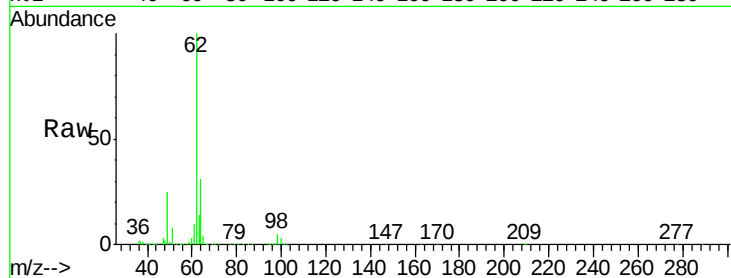
#37
 1,2-Dichloroethane
 Concen: 10.875 ppbv
 RT: 6.35 min Scan# 1107
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1612707
 Ion Ratio Lower Upper
 62 100
 98 5.0 4.4 6.6

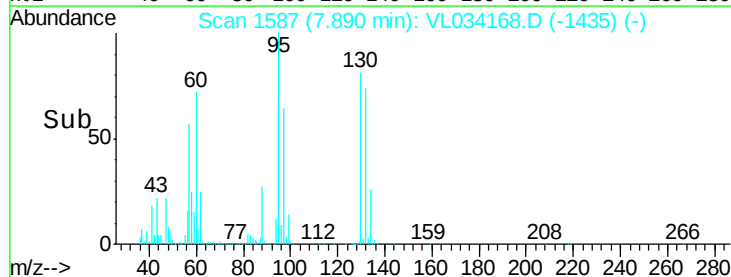
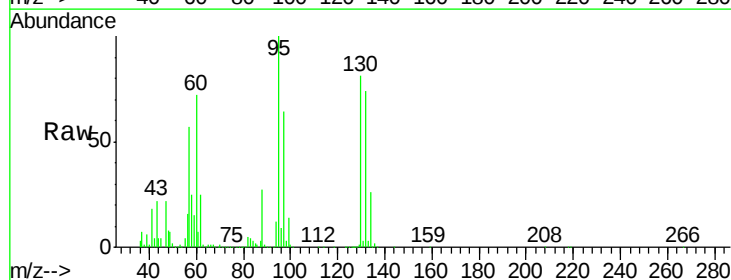
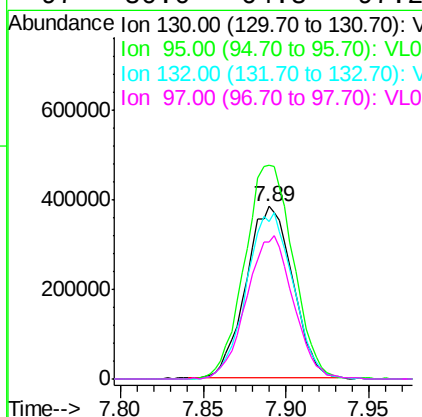
Manual Integrations
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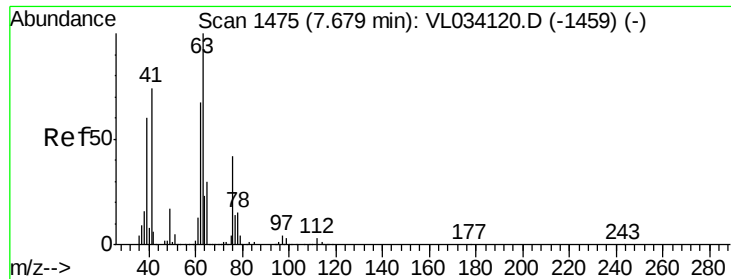
MMDadoda
 9/14/2019 12:09:50 AM



#38
 Trichloroethene
 Concen: 8.314 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion: 130 Resp: 749976
 Ion Ratio Lower Upper
 130 100
 95 124.4 97.2 145.8
 132 91.5 81.4 122.2
 97 80.0 64.8 97.2





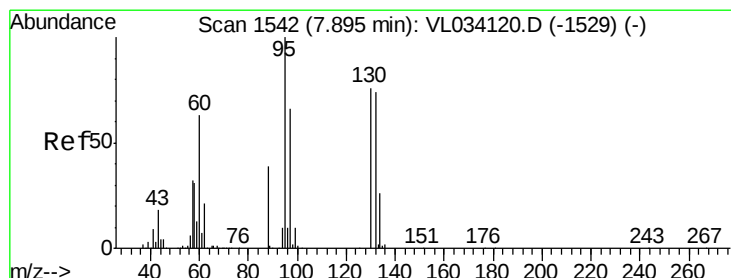
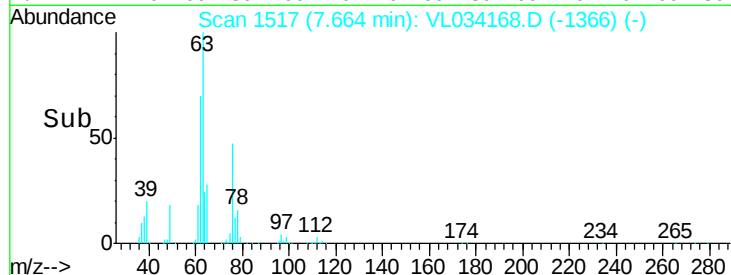
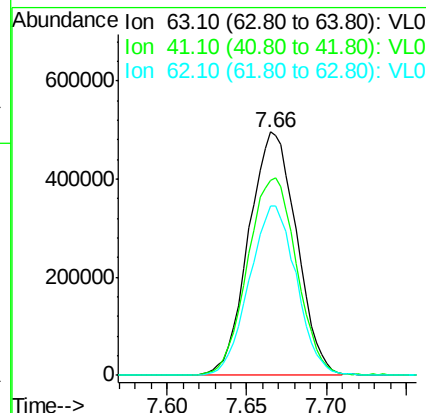
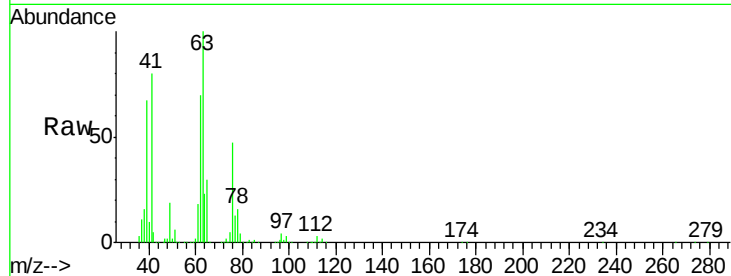
#39
 1,2-Dichloropropane
 Concen: 9.799 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. -0.02 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.9	59.3	88.9
62	69.6	53.8	80.6

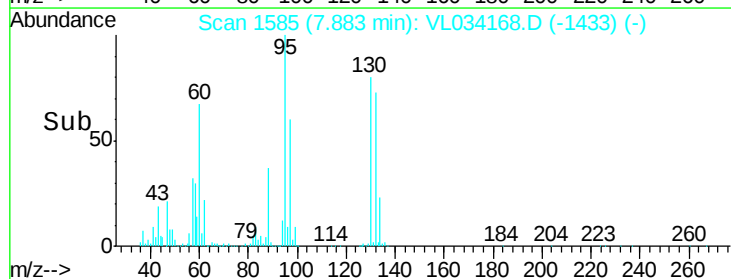
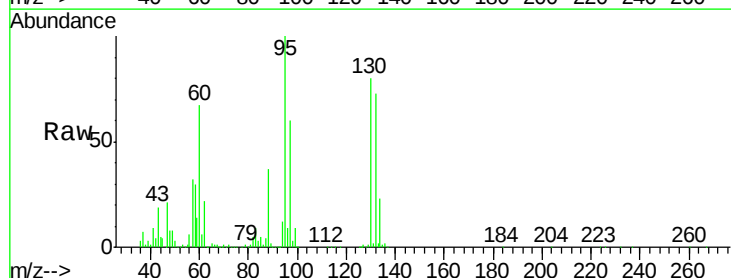
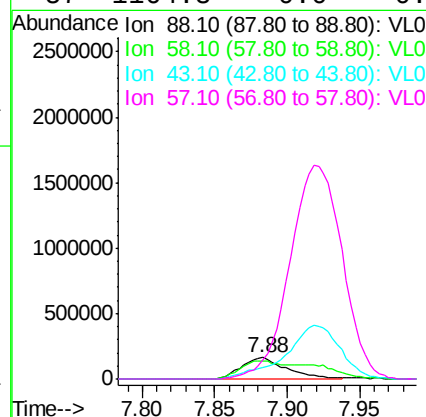
Manual Integrations
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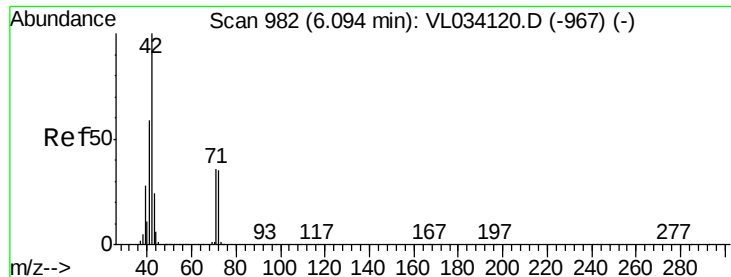
MMDadoda
 9/14/2019 12:09:50 AM



#40
 1,4-Dioxane
 Concen: 9.295 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion	Ratio	Lower	Upper
88	100		
58	148.8	121.7	182.5
43	304.7	0.0	0.0#
57	1164.8	0.0	0.0#





#41

Tetrahydrofuran

Concen: 9.993 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 42 Resp: 1218172

Ion Ratio Lower Upper

42 100

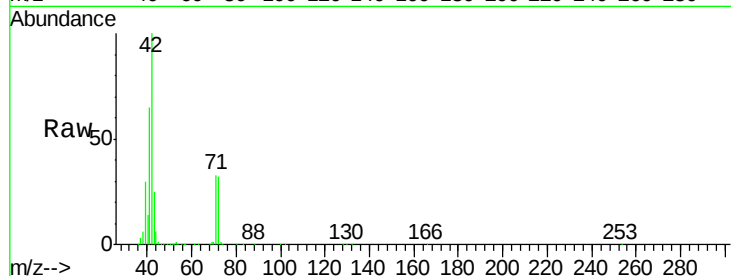
72 32.7 27.7 41.5

71 32.2 26.7 40.1

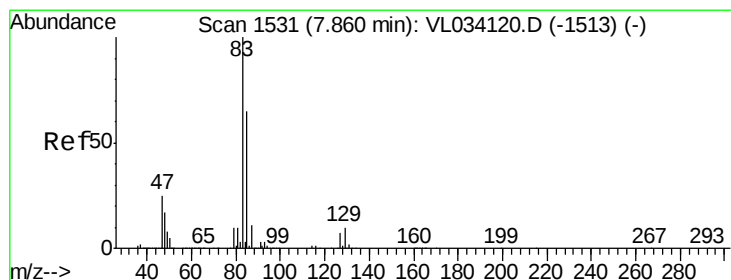
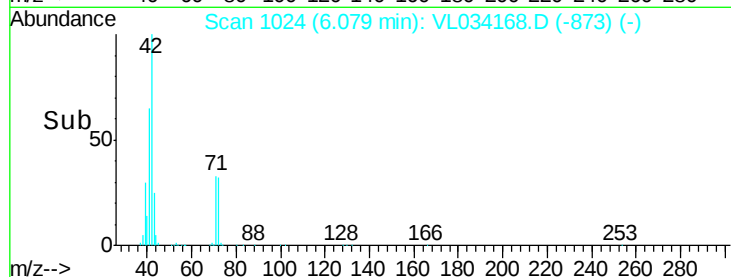
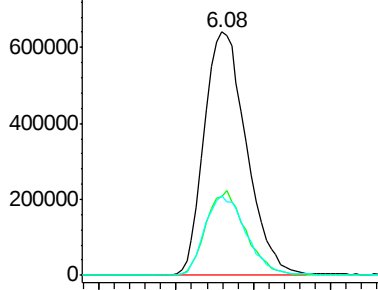
Manual Integrations
APPROVED

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9/14/2019 12:09:50 AM



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.292 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

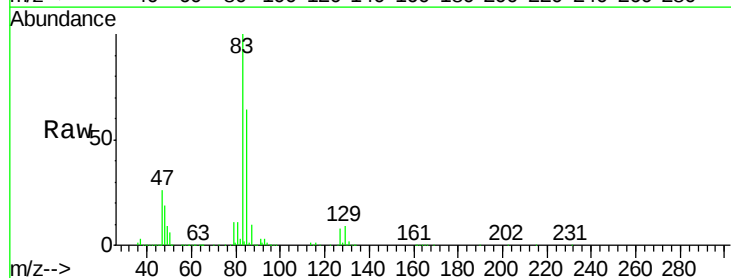
Tgt Ion: 83 Resp: 1989311

Ion Ratio Lower Upper

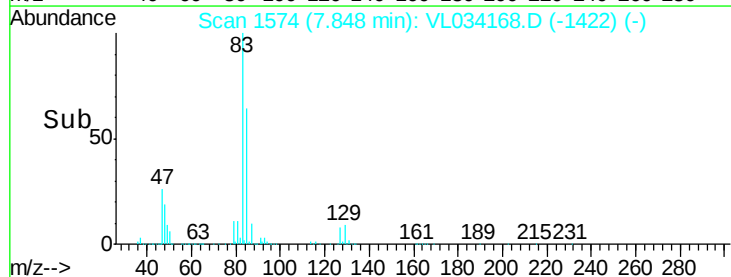
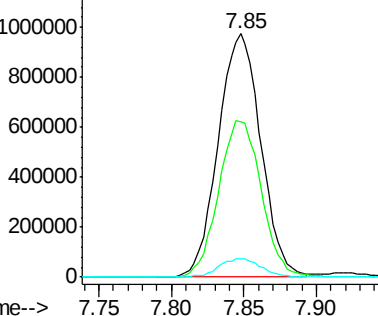
83 100

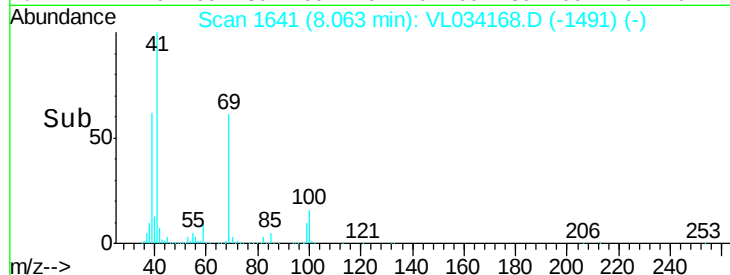
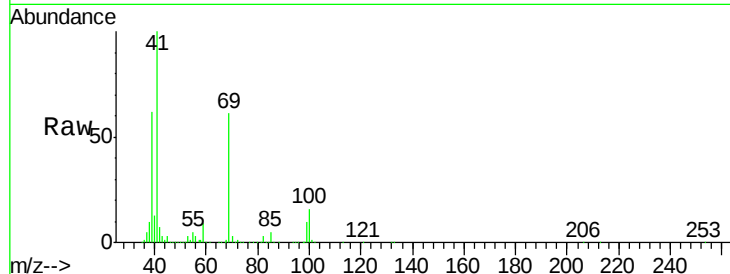
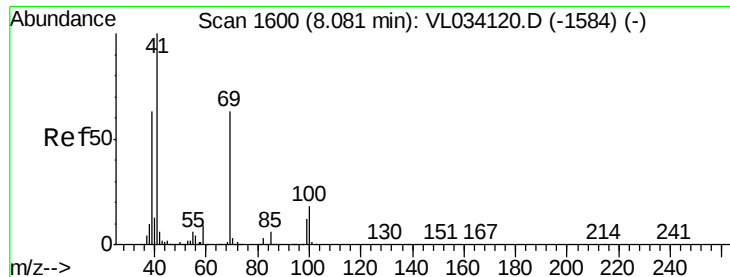
85 64.0 51.6 77.4

127 7.7 5.4 8.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





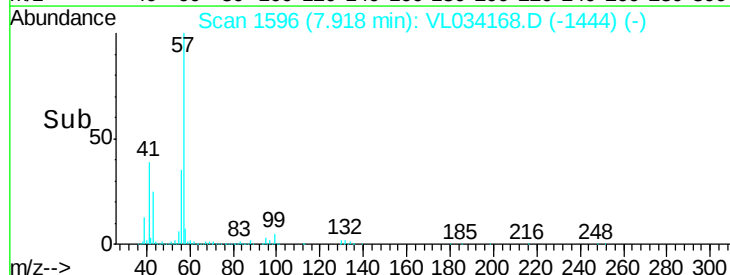
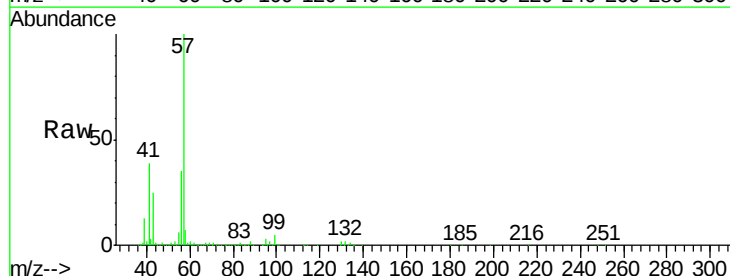
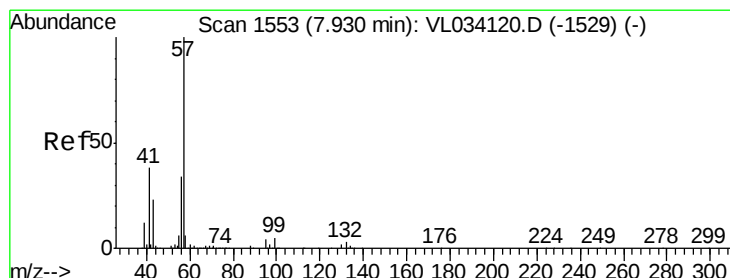
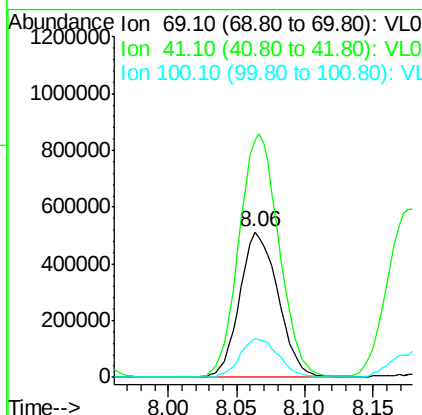
#43
Methvl Methacrilate
Concen: 10.059 ppbv
RT: 8.06 min Scan# 1641
Delta R.T. -0.02 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tot Ion: 69 Resp: 1001812
Ion Ratio Lower Upper
69 100
41 174.3 131.0 196.6
100 27.1 22.6 33.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

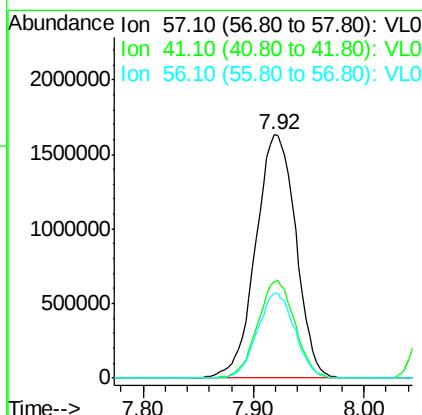
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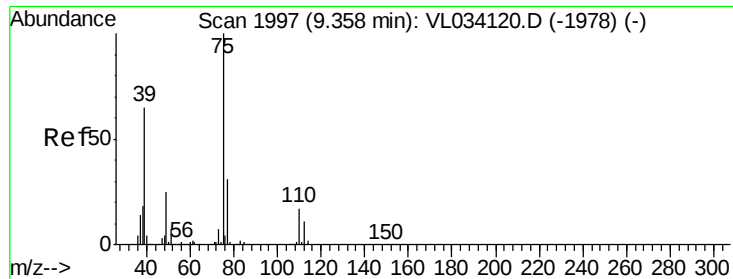
MMDadoda
9/14/2019 12:09:50 AM



#44
2,2,4-Trimethylpentane
Concen: 9.215 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion: 57 Resp: 4107083
Ion Ratio Lower Upper
57 100
41 37.2 28.4 42.6
56 32.6 26.3 39.5





#45

t-1,3-Dichloropropene

Concen: 11.206 ppbv

RT: 9.34 min Scan# 2038

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Tot Ion: 75 Resp: 1311737

Ion Ratio Lower Upper

75 100

77 30.8 24.6 36.8

Instrument :

MSVOA_L

ClientSampleId :

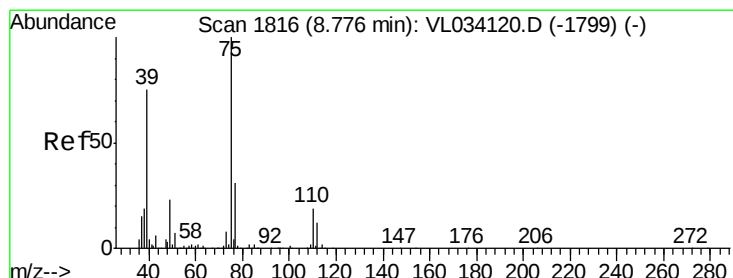
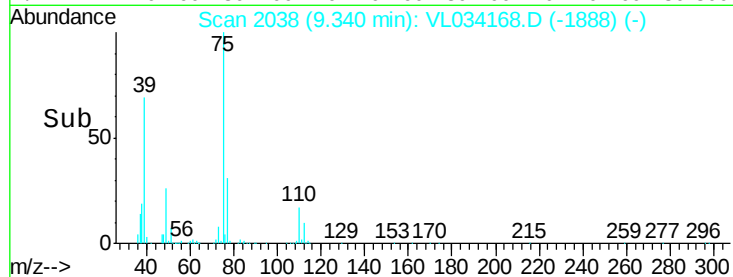
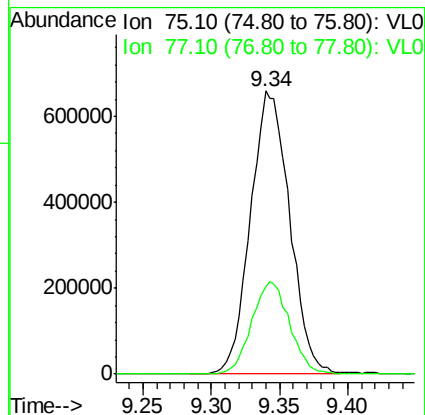
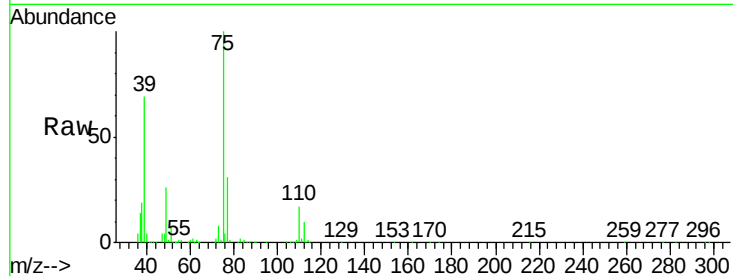
VSTDCCC010EC

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#46

cis-1,3-Dichloropropene

Concen: 10.334 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

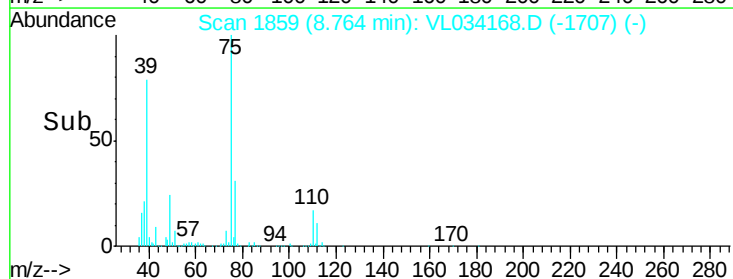
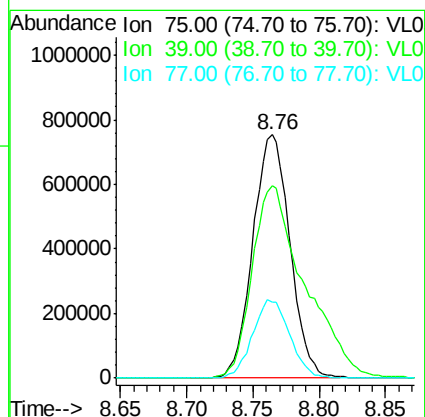
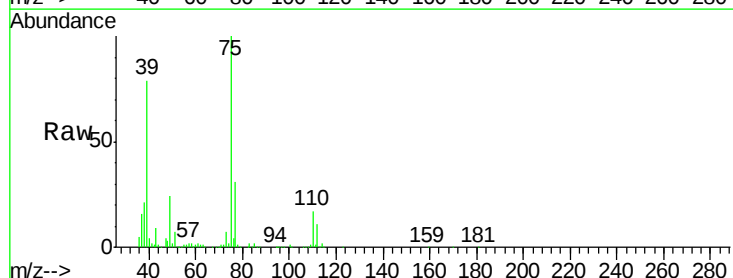
Tgt Ion: 75 Resp: 1471647

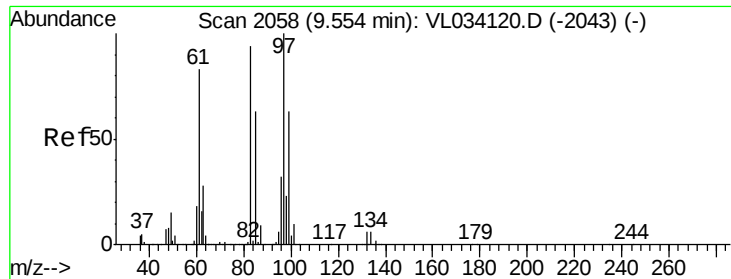
Ion Ratio Lower Upper

75 100

39 79.2 60.0 90.0

77 31.4 24.8 37.2





#47

1,1,2-Trichloroethane

Concen: 9.472 ppbv

RT: 9.54 min Scan# 2101

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 892783

Ion Ratio Lower Upper

97 100

83 89.5 74.9 112.3

85 58.7 50.6 75.8

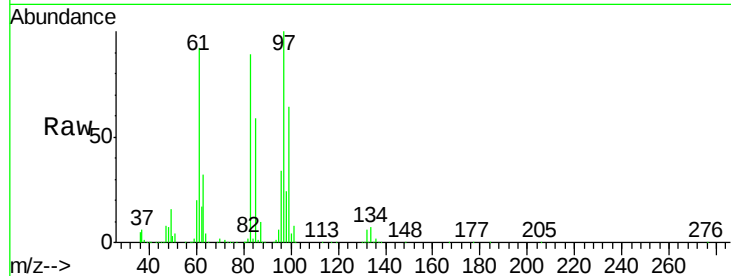
99 63.8 50.2 75.2

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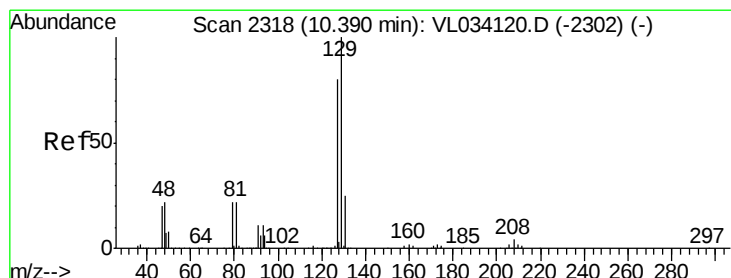
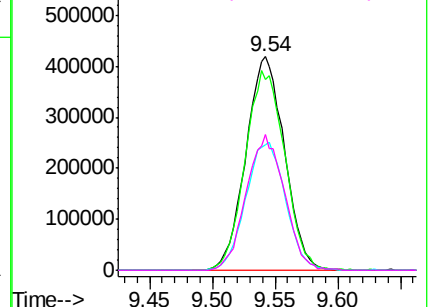
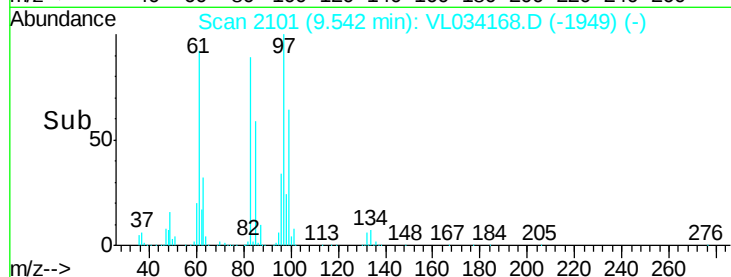


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.545 ppbv

RT: 10.37 min Scan# 2360

Delta R.T. -0.02 min

Lab File: VL034168.D

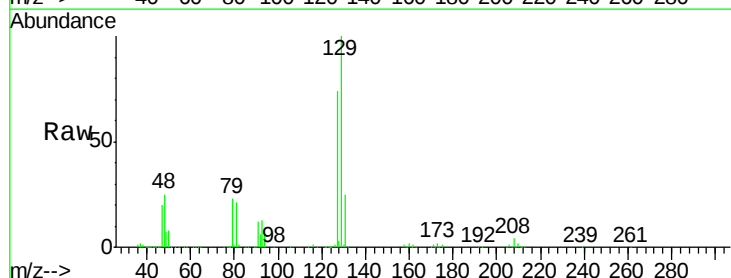
Acq: 13 Sep 2019 9:23

Tgt Ion: 129 Resp: 1483103

Ion Ratio Lower Upper

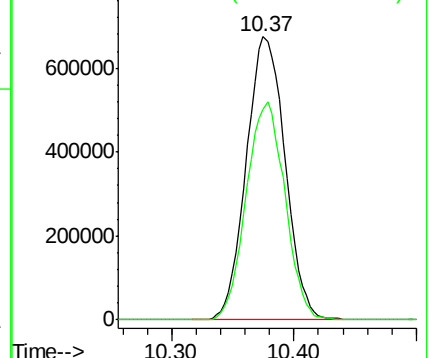
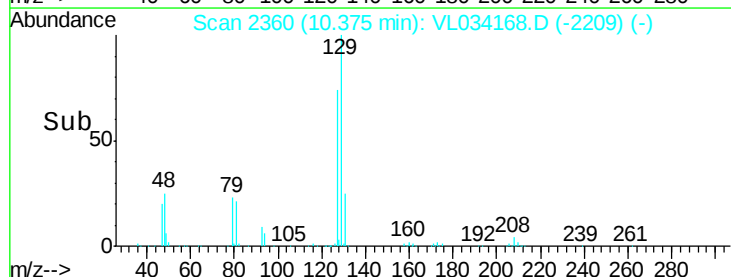
129 100

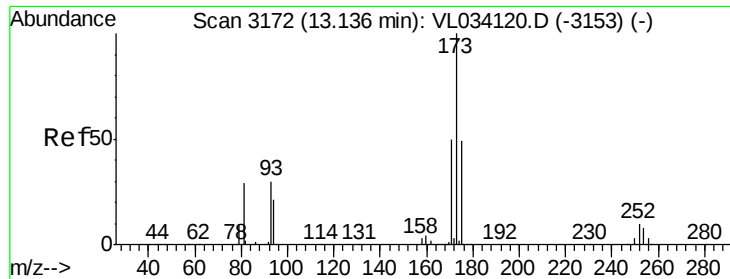
127 77.0 40.2 120.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





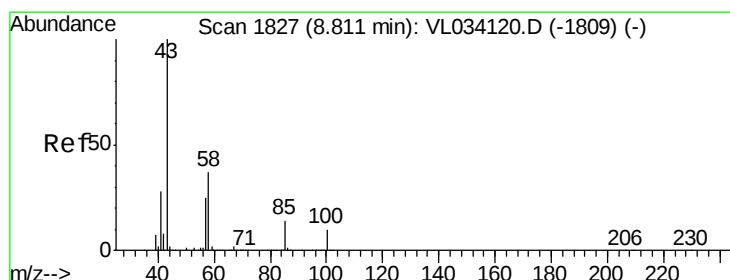
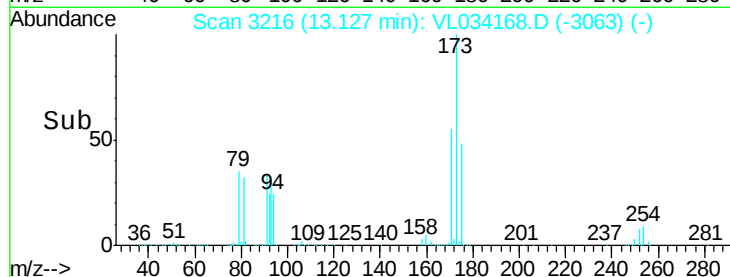
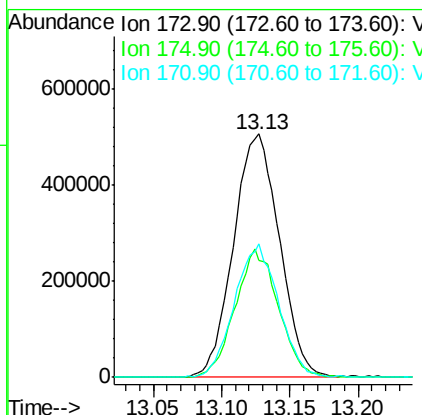
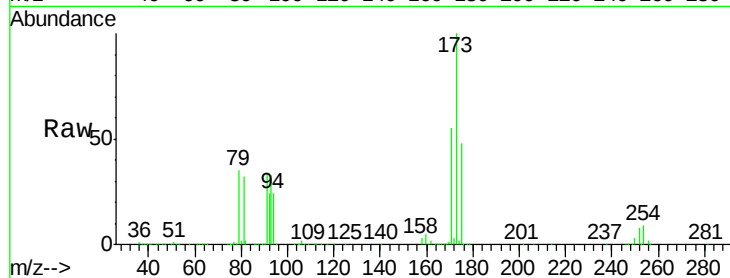
#49
Bromoform
Concen: 9.534 ppbv
RT: 13.13 min Scan# 3216
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1175587
Ion Ratio Lower Upper
173 100
175 50.1 40.0 60.0
171 53.2 42.2 63.2

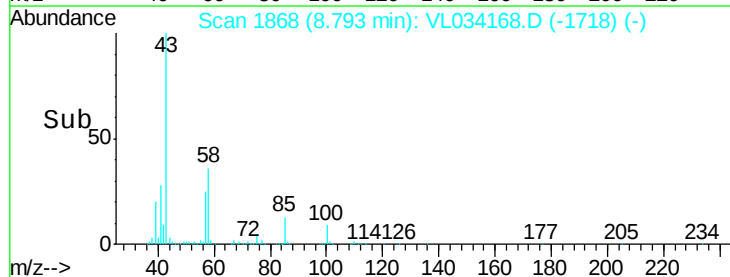
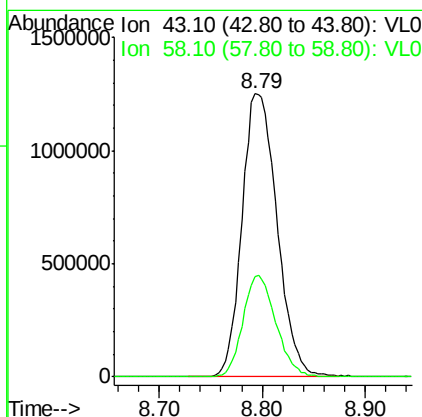
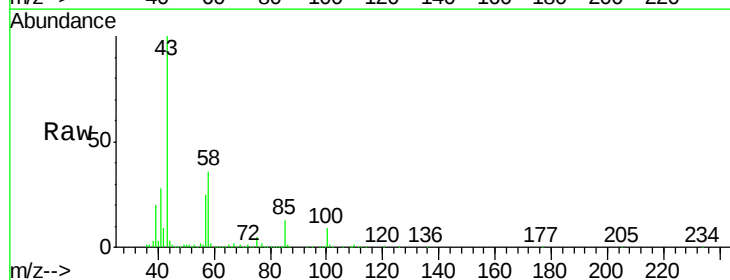
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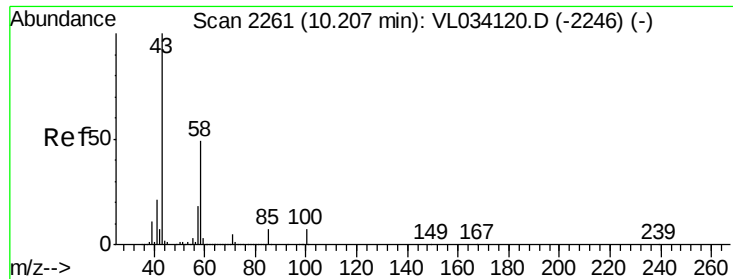
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.524 ppbv
RT: 8.79 min Scan# 1868
Delta R.T. -0.02 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion: 43 Resp: 2955227
Ion Ratio Lower Upper
43 100
58 34.0 28.5 42.7





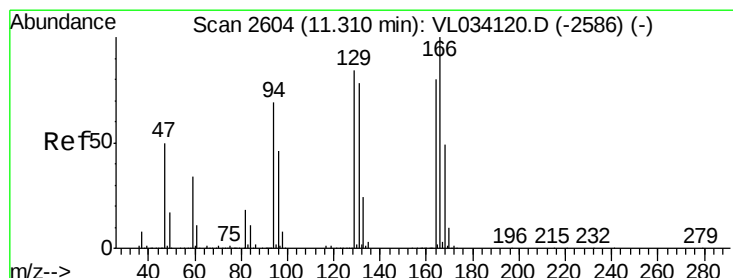
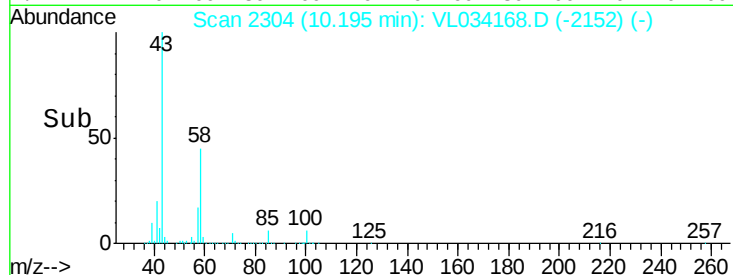
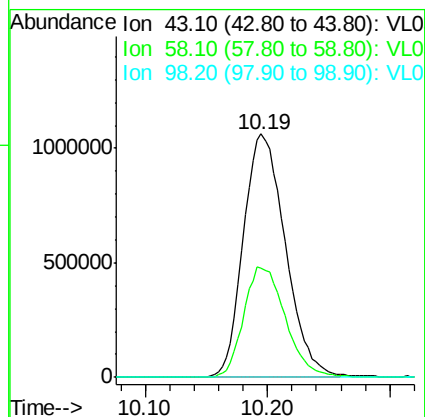
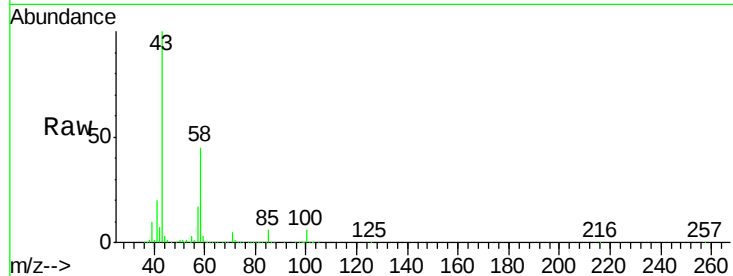
#51
2-Hexanone
Concen: 9.443 ppbv
RT: 10.19 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2531092
Ion Ratio Lower Upper
43 100
58 45.0 38.2 57.2
98 0.2 0.1 0.1#

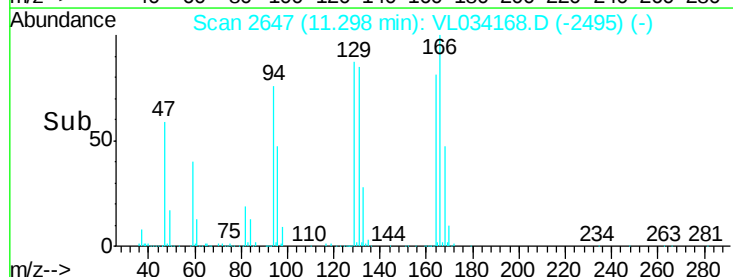
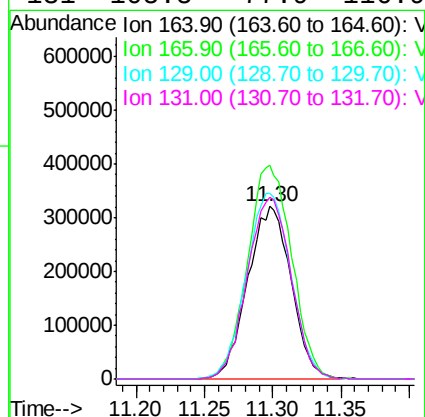
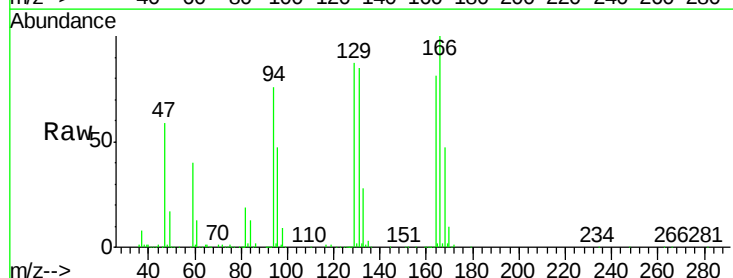
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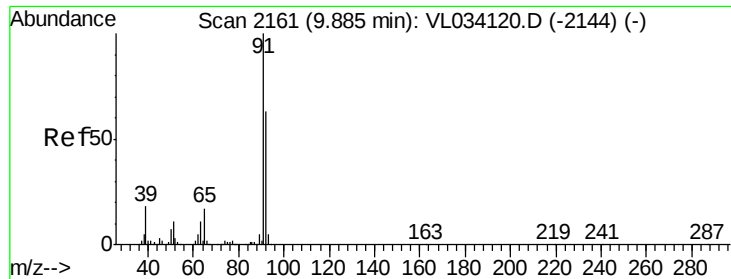
MMDadoda
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#52
Tetrachloroethene
Concen: 8.302 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion: 164 Resp: 707723
Ion Ratio Lower Upper
164 100
166 123.6 99.5 149.3
129 107.3 83.6 125.4
131 105.5 77.9 116.9





#53

Toluene

Concen: 9.244 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2471555

Ion Ratio Lower Upper

91 100

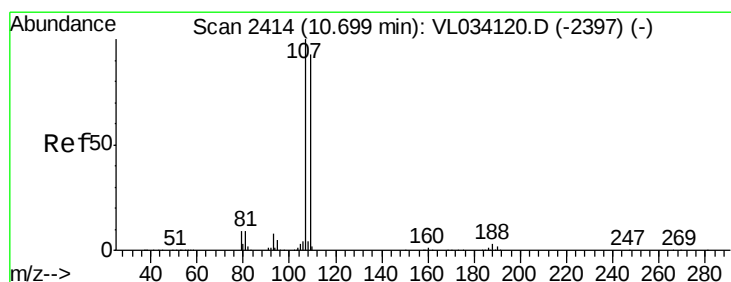
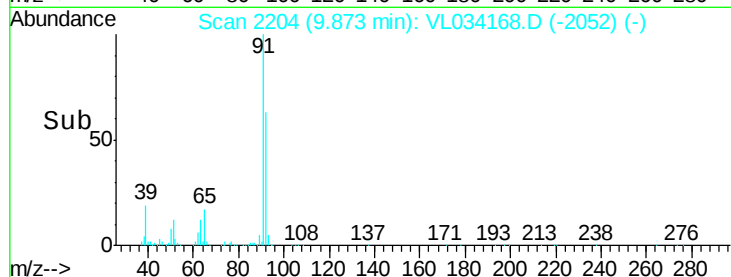
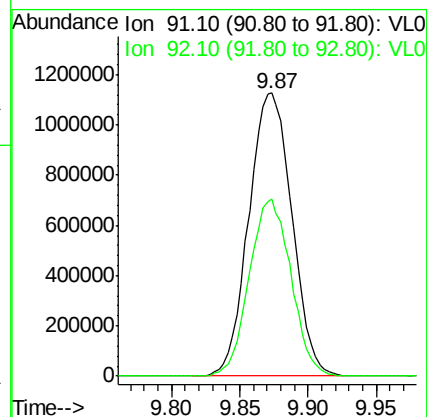
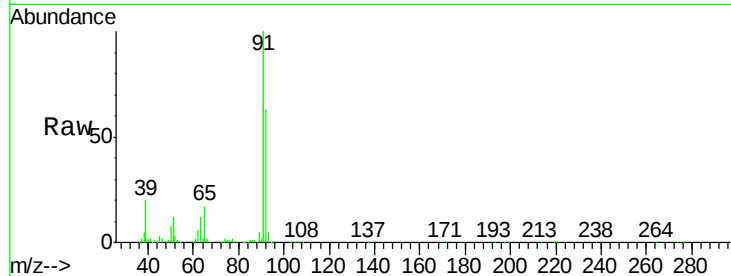
92 60.5 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 9.424 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. -0.01 min

Lab File: VL034168.D

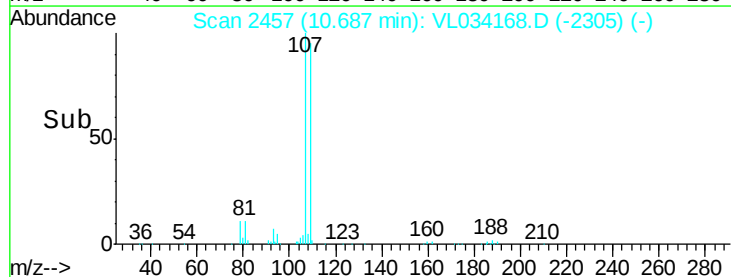
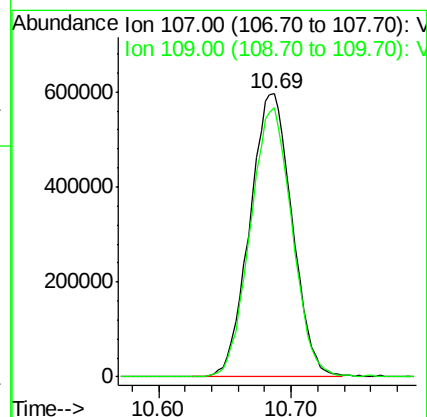
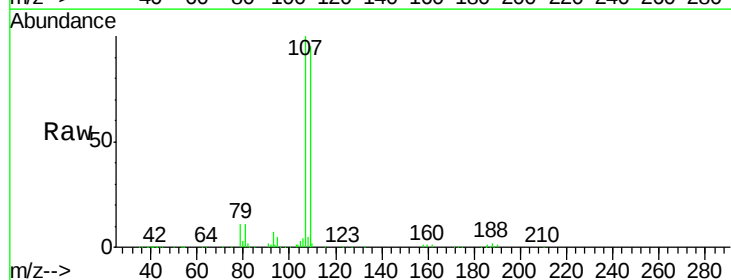
Acq: 13 Sep 2019 9:23

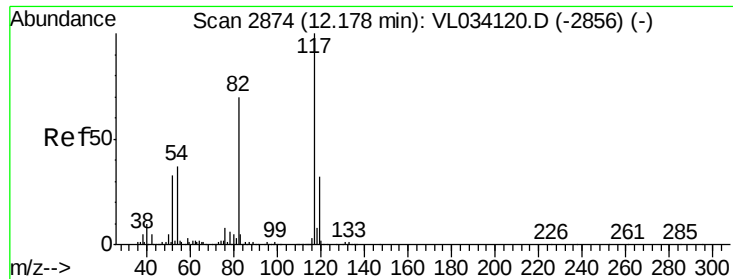
Tgt Ion: 107 Resp: 1323333

Ion Ratio Lower Upper

107 100

109 95.2 74.5 111.7





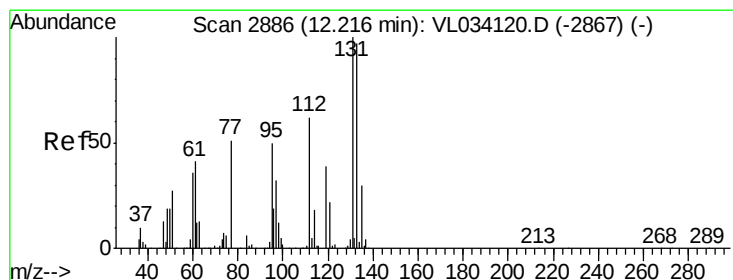
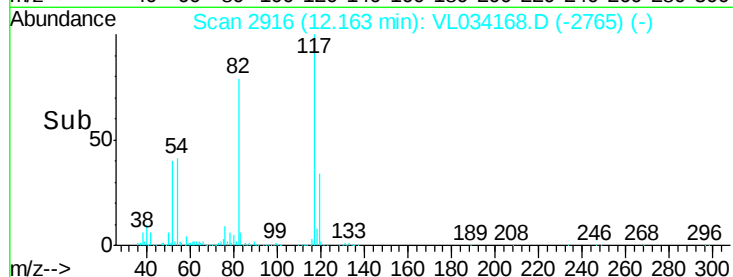
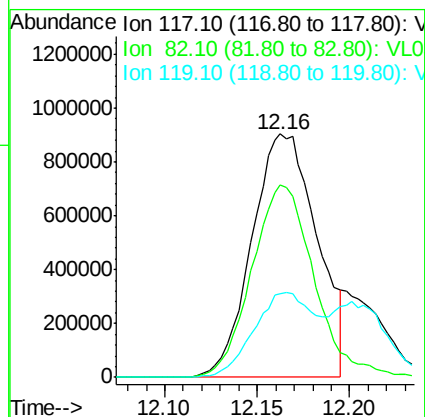
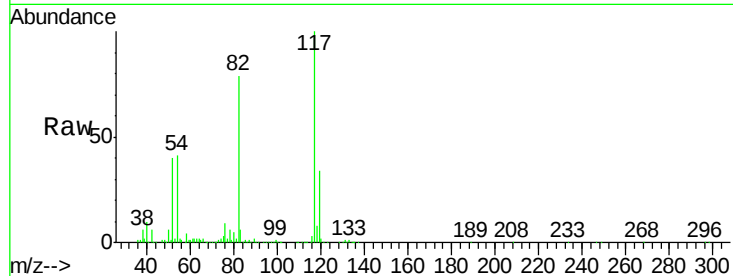
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.16 min Scan# 2916
Delta R.T. -0.02 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	76.0	55.8	83.6
119	0.0	43.1	64.7#

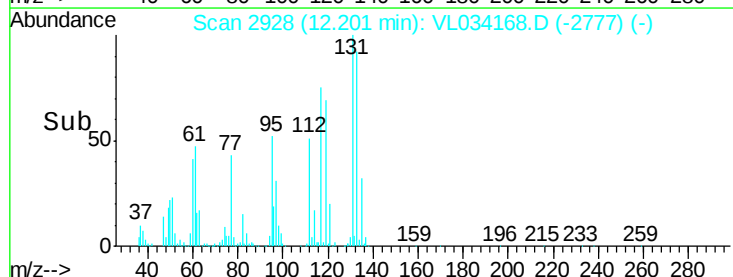
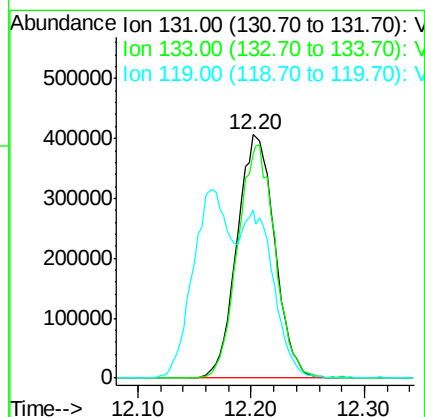
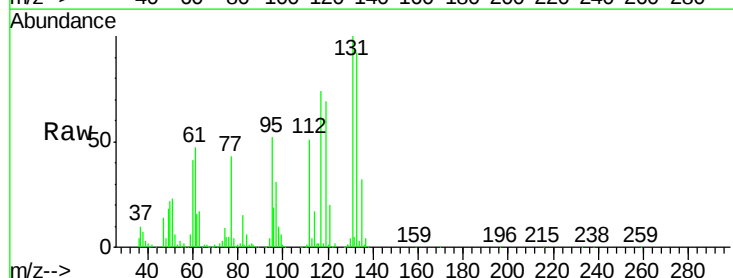
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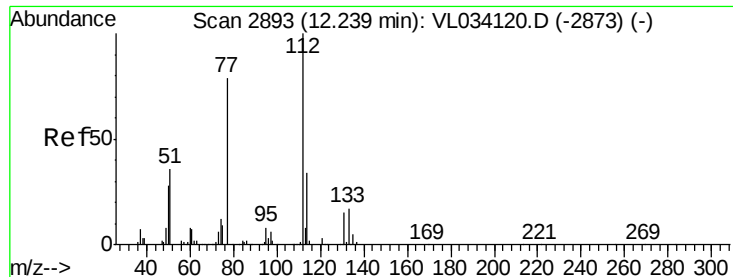
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.922 ppbv
RT: 12.20 min Scan# 2928
Delta R.T. -0.02 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	75.8	113.6
119	62.1	114.7	172.1#





#57

Chlorobenzene

Concen: 9.124 ppbv

RT: 12.23 min Scan# 2936

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1739082

Ion Ratio Lower Upper

112 100

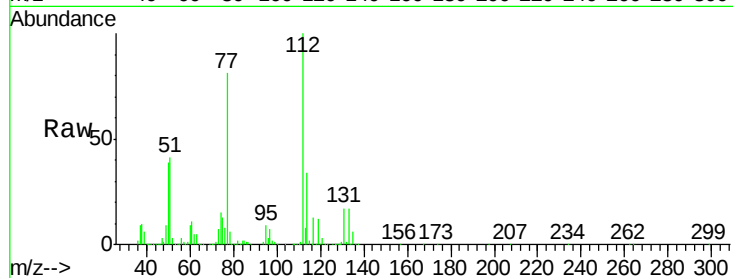
77 81.0 64.4 96.6

114 34.1 30.3 37.1

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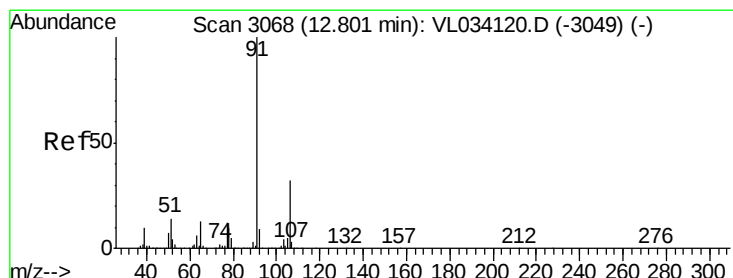
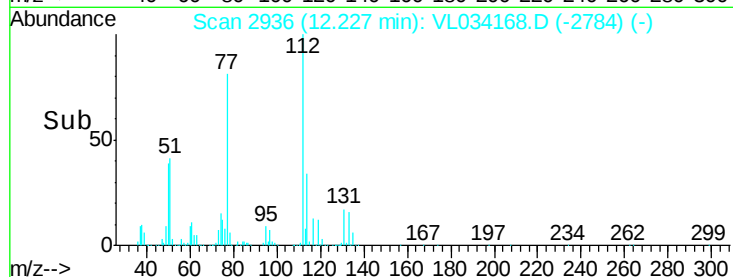
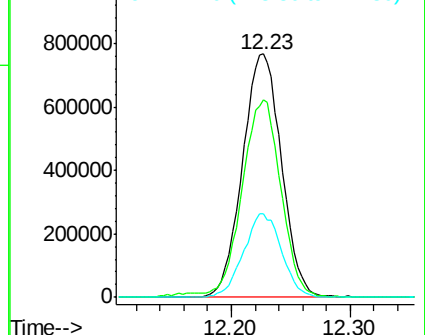
9/14/2019 12:09:50 AM



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: 9.125 ppbv

RT: 12.79 min Scan# 3111

Delta R.T. -0.01 min

Lab File: VL034168.D

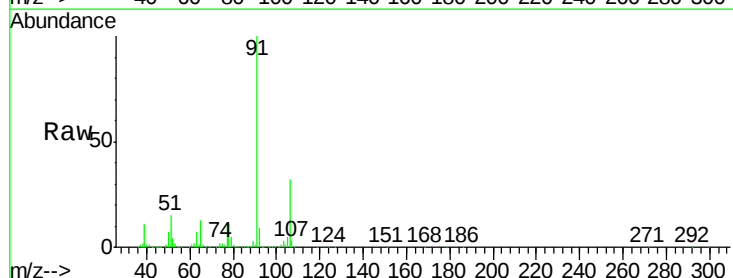
Acq: 13 Sep 2019 9:23

Tgt Ion: 91 Resp: 3315322

Ion Ratio Lower Upper

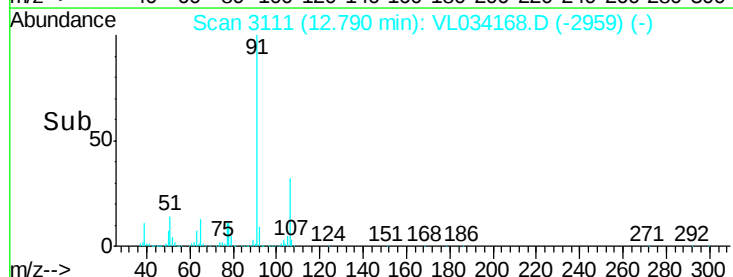
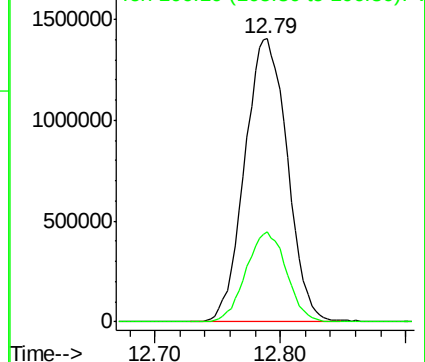
91 100

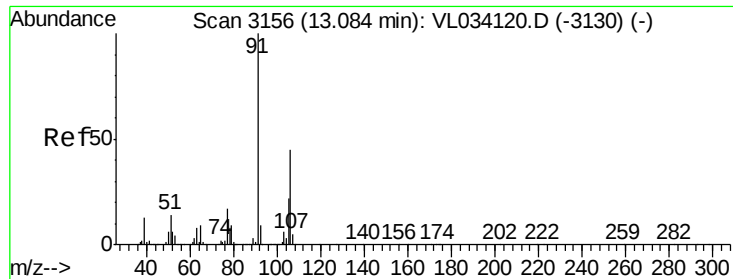
106 31.8 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





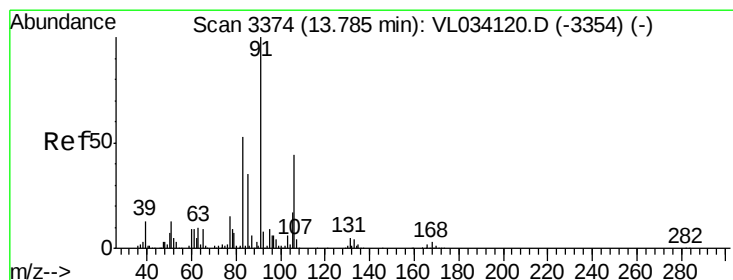
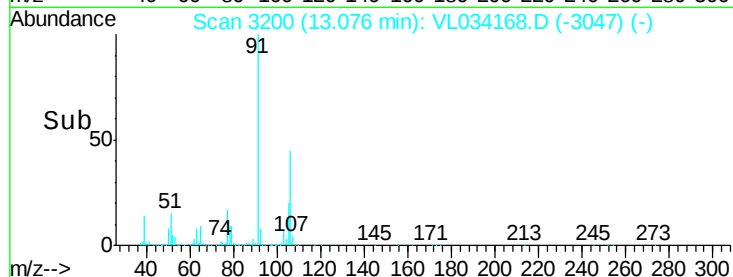
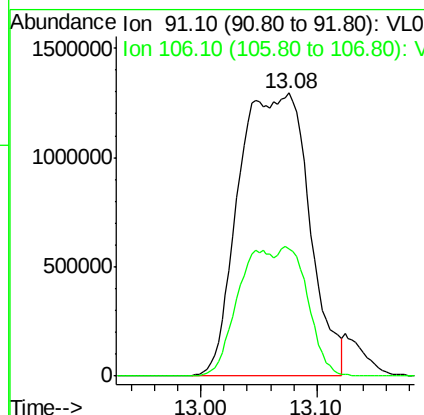
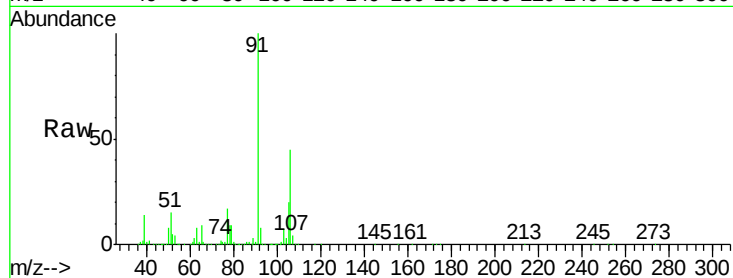
#59
m/p-Xylene
Concen: 18.361 ppbv m
RT: 13.08 min Scan# 3200
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5441979
Ion Ratio Lower Upper
91 100
106 43.6 35.4 53.2

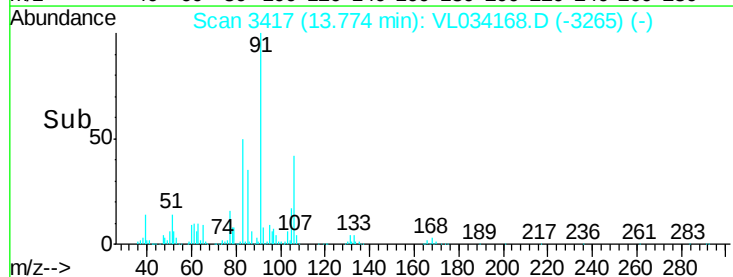
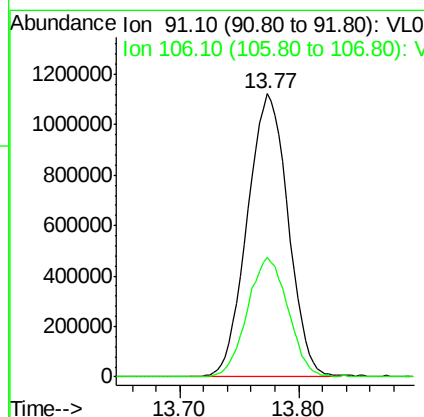
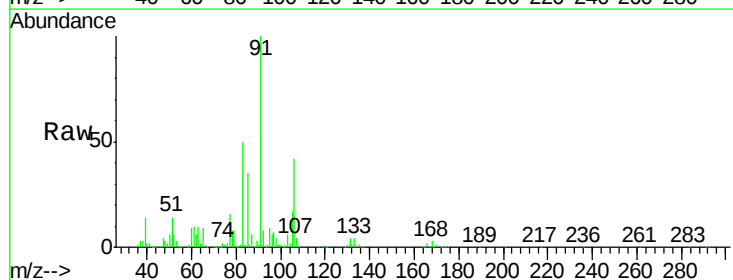
Manual Integrations
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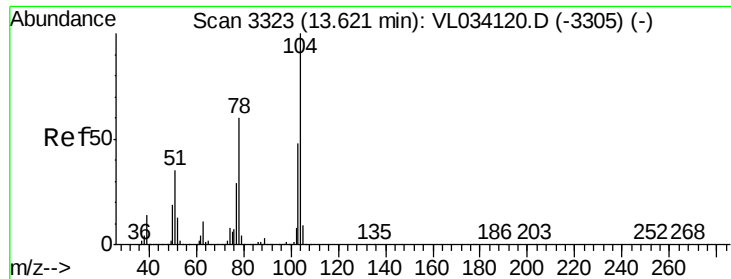
MMDadoda
9/14/2019 12:09:50 AM



#60
o-Xylene
Concen: 9.036 ppbv
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion: 91 Resp: 2667495
Ion Ratio Lower Upper
91 100
106 42.0 21.4 64.3





#61

Stvrene

Concen: 9.176 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2026285

Ion Ratio Lower Upper

104 100

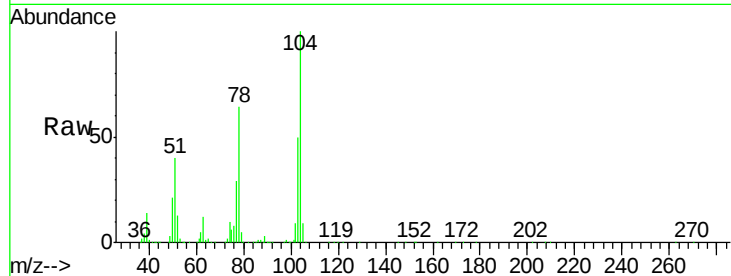
78 62.2 47.8 71.6

103 48.5 38.7 58.1

Manual Integrations
APPROVED

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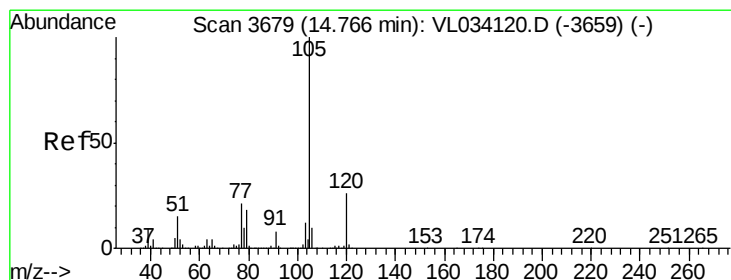
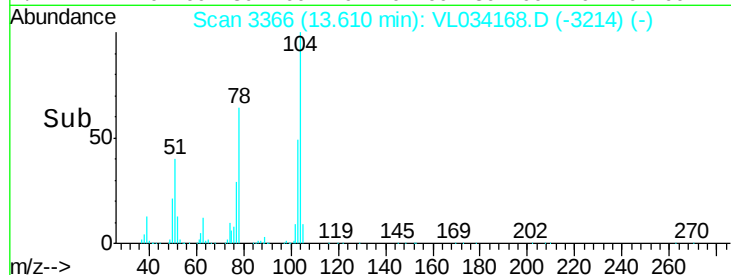
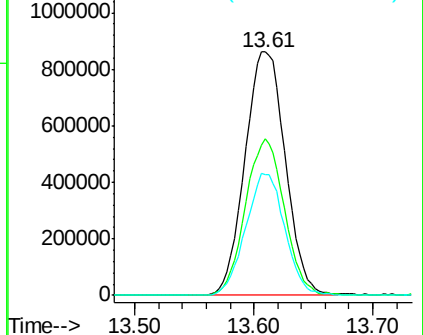
9/14/2019 12:09:50 AM



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



#62

Isopropylbenzene

Concen: 8.910 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. -0.01 min

Lab File: VL034168.D

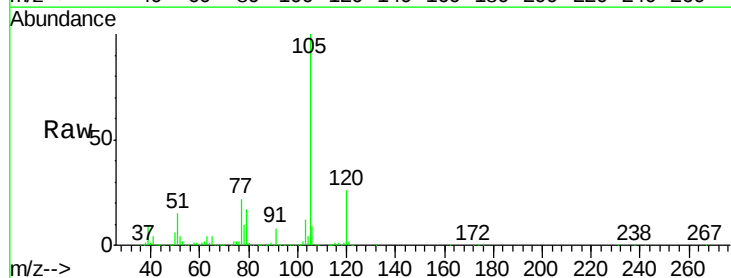
Acq: 13 Sep 2019 9:23

Tgt Ion:105 Resp: 3422552

Ion Ratio Lower Upper

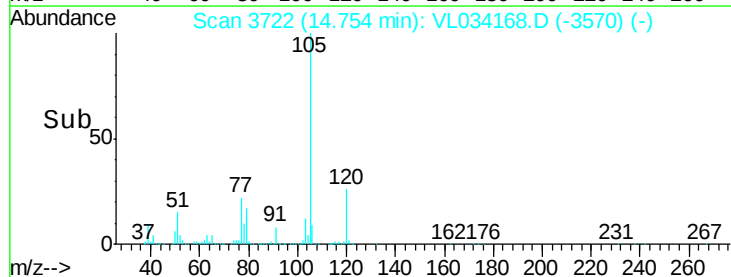
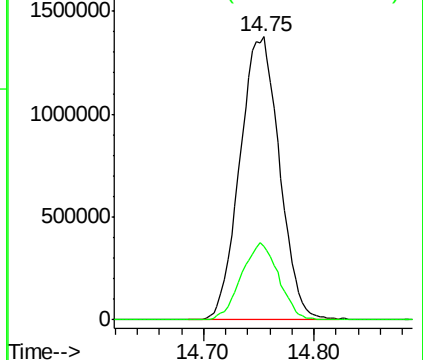
105 100

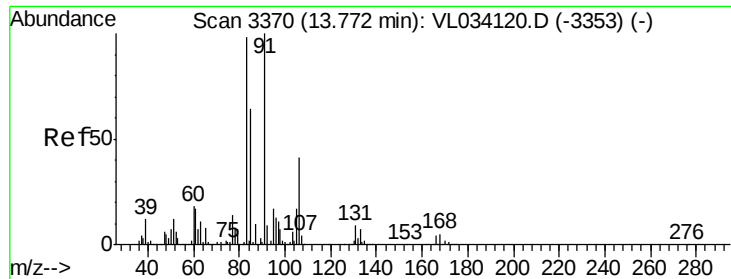
120 25.6 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.791 ppbv

RT: 13.76 min Scan# 3414

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1874404

Ion Ratio Lower Upper

83 100

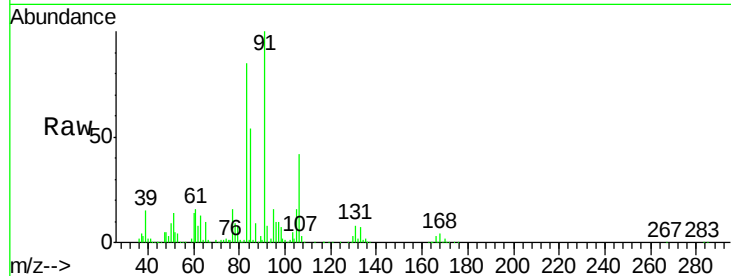
131 8.4 4.3 12.8

85 65.7 32.5 97.5

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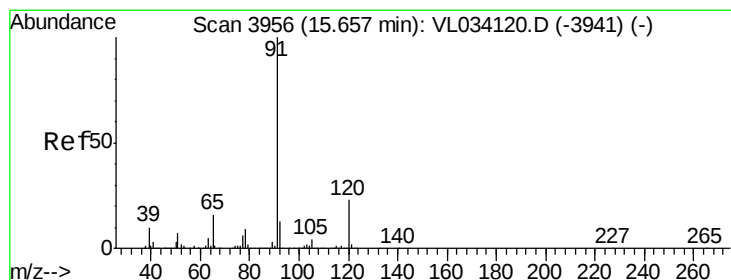
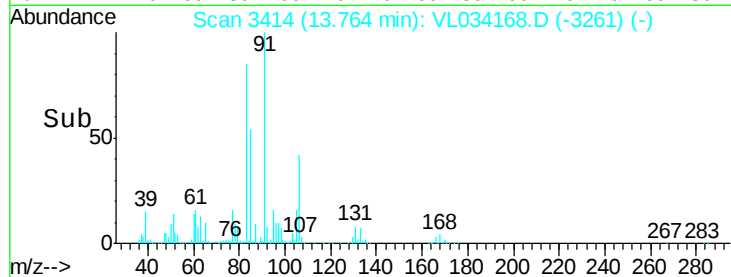
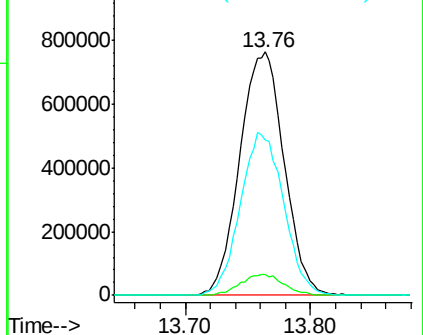
9/14/2019 12:09:50 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.193 ppbv

RT: 15.65 min Scan# 4000

Delta R.T. -0.01 min

Lab File: VL034168.D

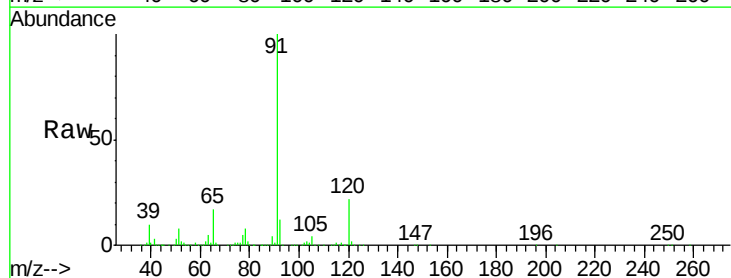
Acq: 13 Sep 2019 9:23

Tgt Ion: 120 Resp: 884508

Ion Ratio Lower Upper

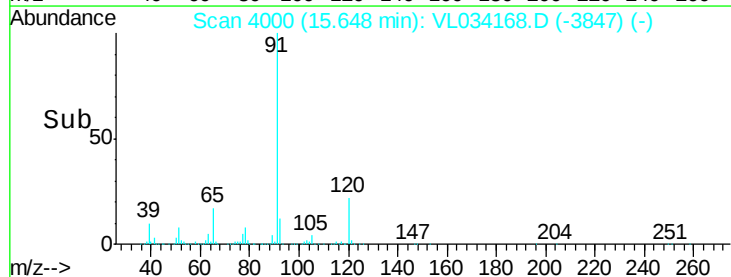
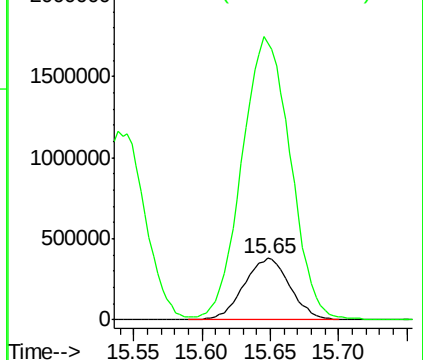
120 100

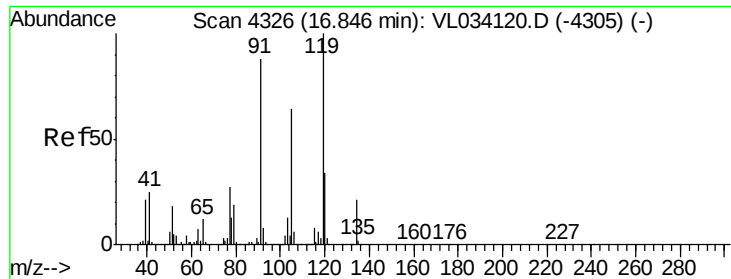
91 489.5 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.562 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2838082

Ion Ratio Lower Upper

119 100

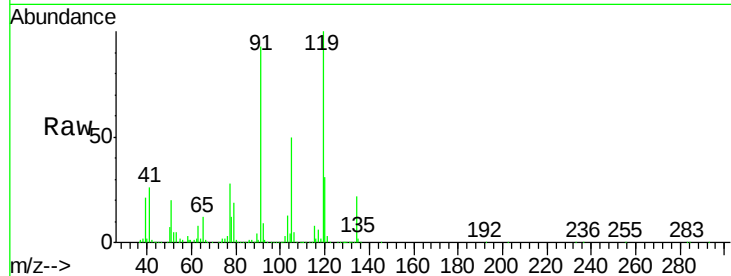
91 95.0 72.8 109.2

134 19.7 15.8 23.8

Manual Integrations
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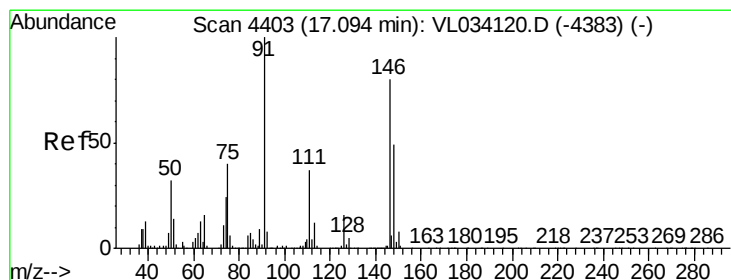
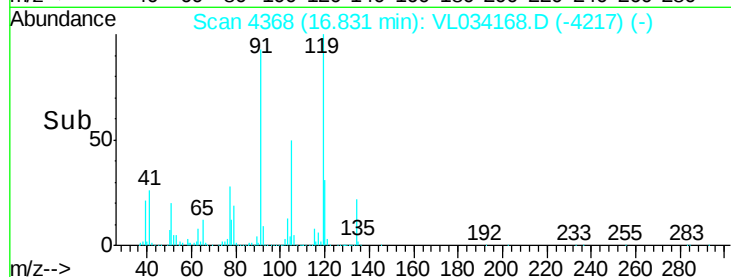
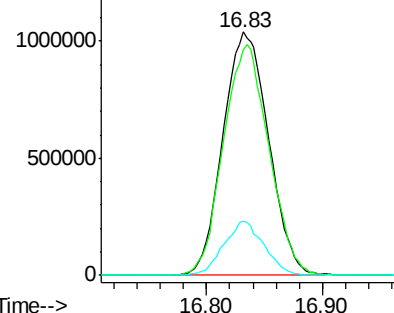
9/14/2019 12:09:50 AM



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: 10.744 ppbv

RT: 17.08 min Scan# 4446

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

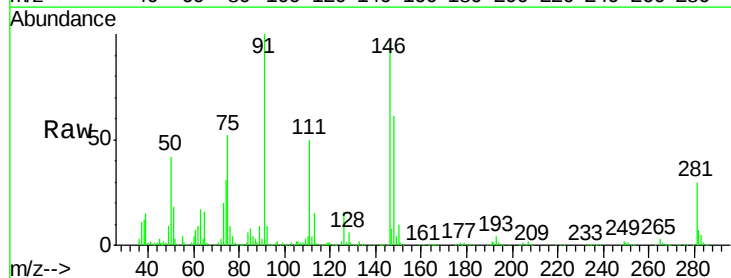
Tgt Ion: 91 Resp: 1313119

Ion Ratio Lower Upper

91 100

126 15.6 13.7 20.5

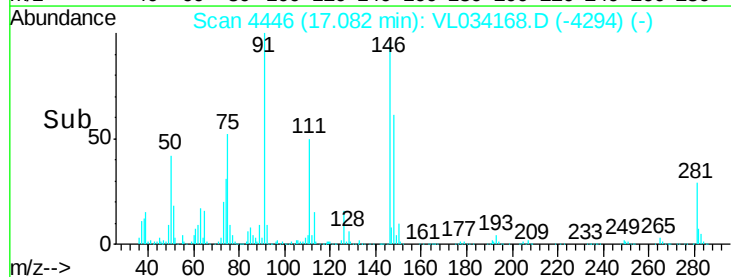
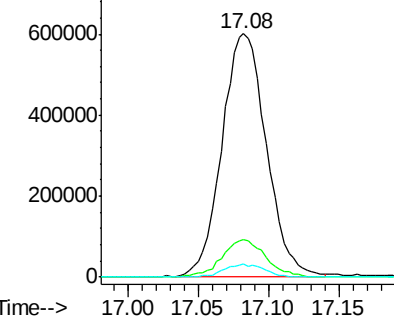
128 5.0 4.2 6.4

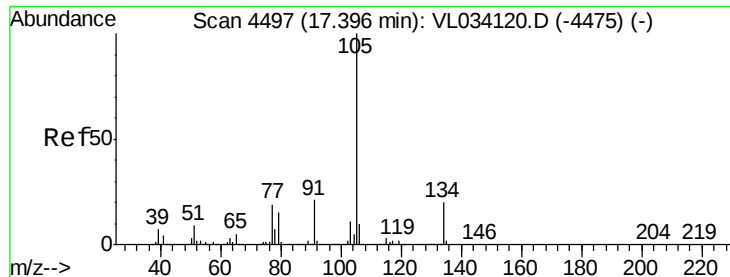


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.676 ppbv

RT: 17.38 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4135532

Ion Ratio Lower Upper

105 100

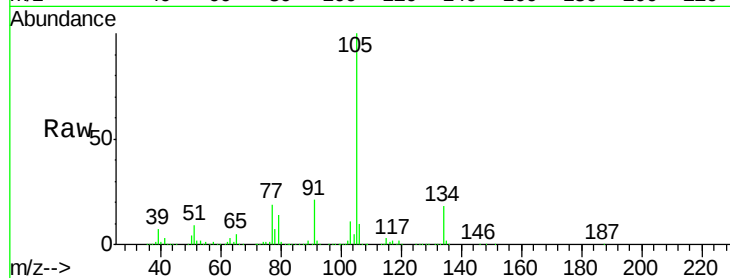
134 18.1 15.0 22.4

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.38

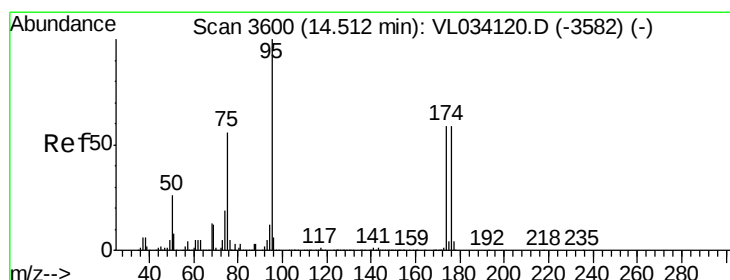
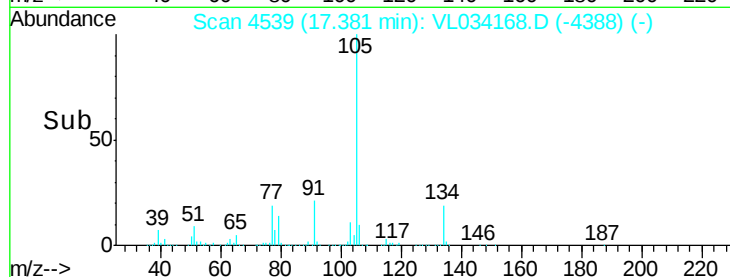
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.309 ppbv

RT: 14.50 min Scan# 3642

Delta R.T. -0.02 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

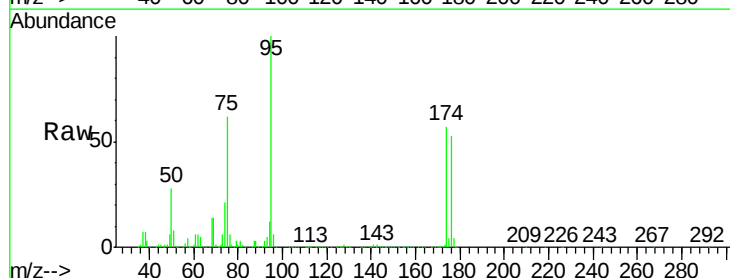
Tgt Ion: 95 Resp: 1867391

Ion Ratio Lower Upper

95 100

174 58.8 48.1 72.1

175 4.2 3.5 5.3



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

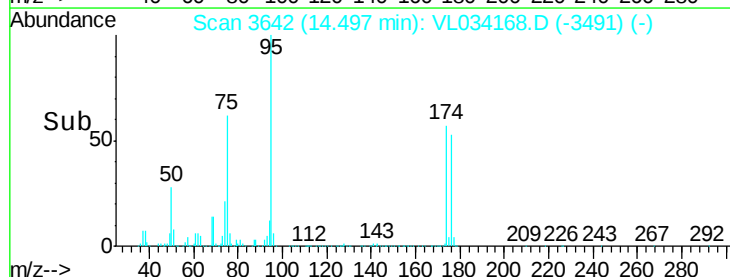
600000

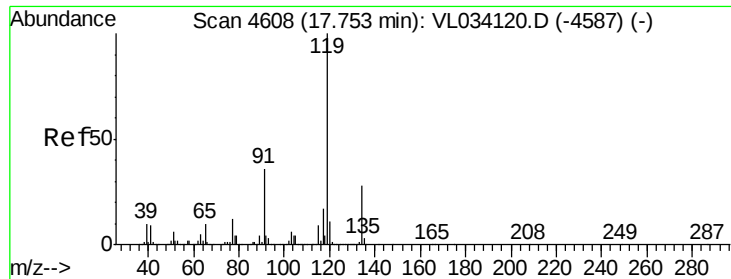
400000

200000

0

Time-->





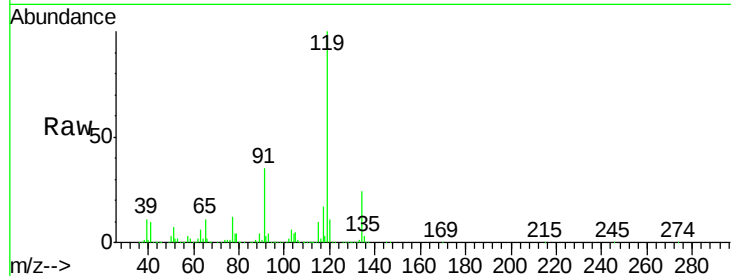
#69
 p-Isopropyltoluene
 Concen: 8.944 ppbv
 RT: 17.74 min Scan# 4651
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

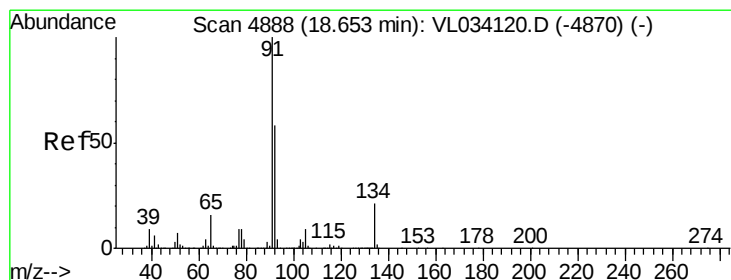
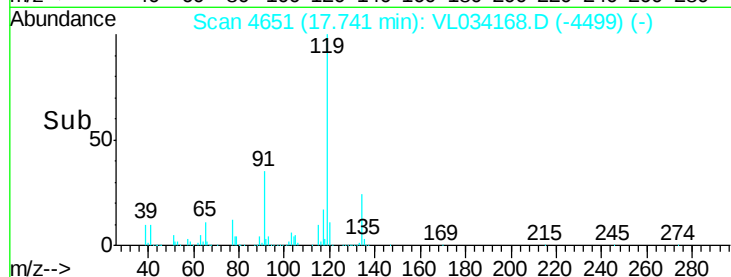
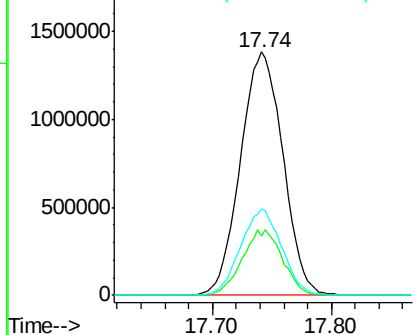
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.8	31.2
91	34.5	27.2	40.8

Manual Integrations
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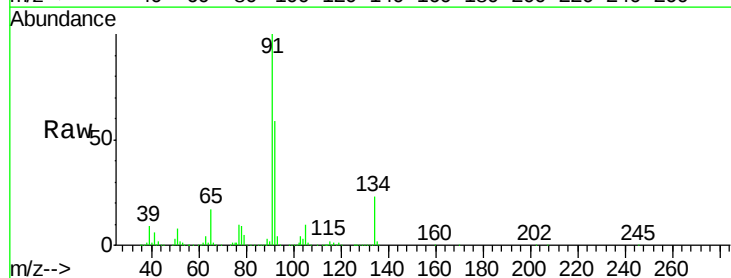


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

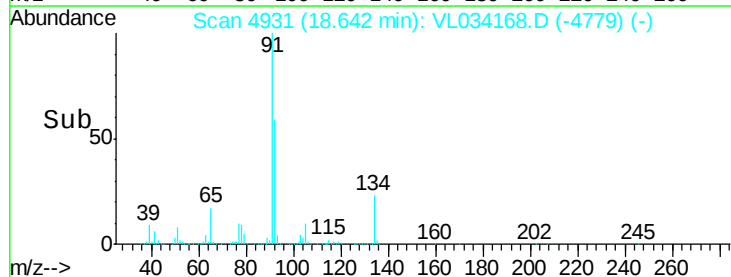
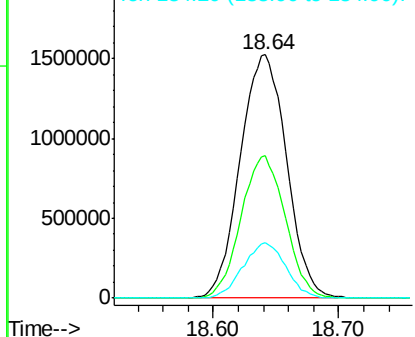


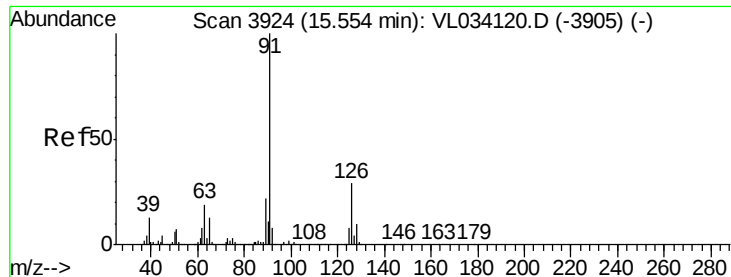
#70
 n-Butylbenzene
 Concen: 8.973 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.4	45.3	67.9
134	21.2	17.4	26.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





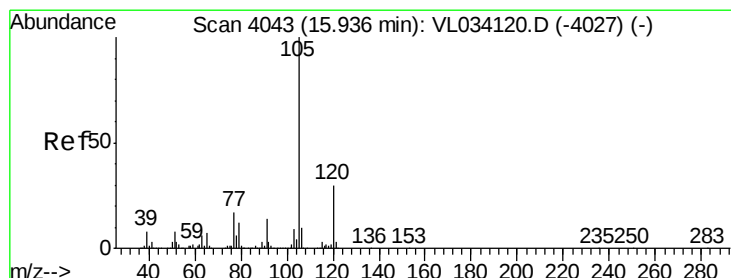
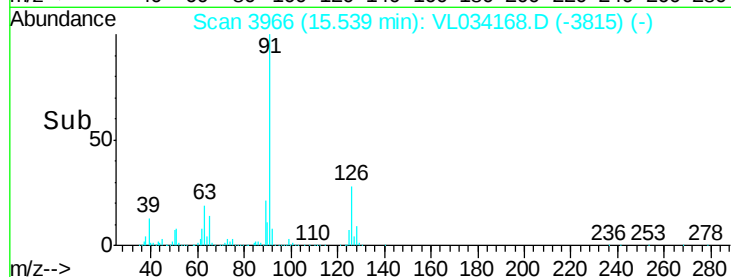
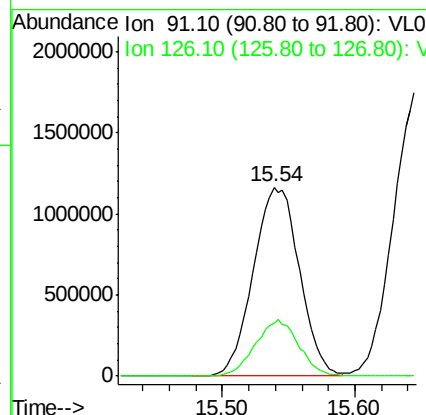
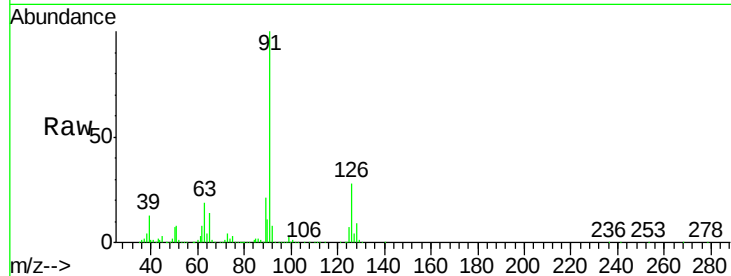
#71
 2-Chlorotoluene
 Concen: 8.992 ppbv
 RT: 15.54 min Scan# 3966
 Delta R.T. -0.02 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2821346
 Ion Ratio Lower Upper
 91 100
 126 28.2 11.4 45.4

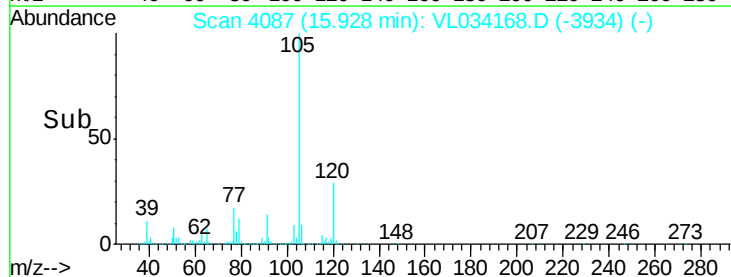
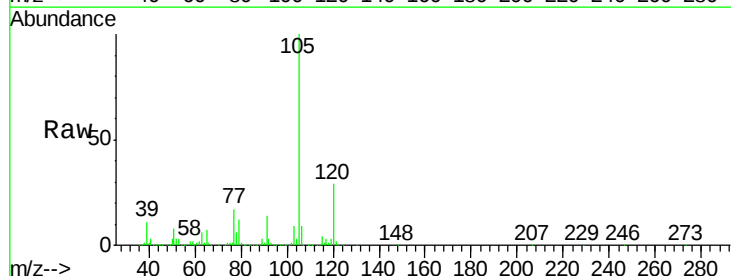
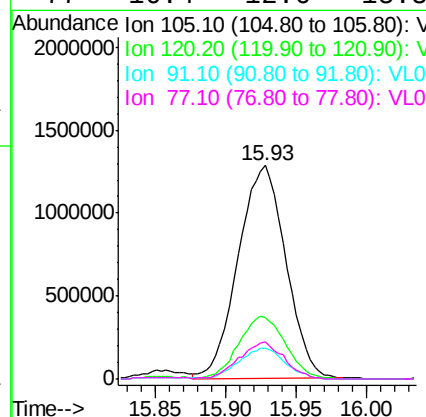
Manual Integrations
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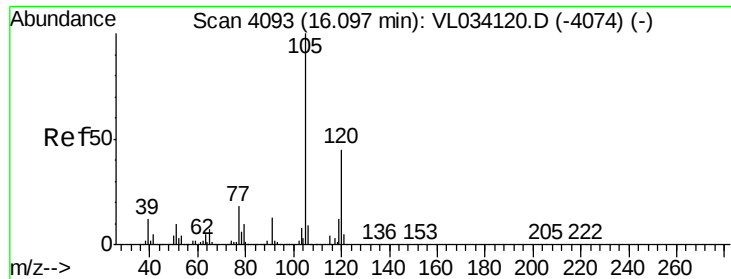
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#72
 4-Ethyltoluene
 Concen: 9.110 ppbv
 RT: 15.93 min Scan# 4087
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion: 105 Resp: 3034262
 Ion Ratio Lower Upper
 105 100
 120 30.1 23.8 35.6
 91 14.2 11.4 17.0
 77 16.4 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 8.966 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2902273

Ion Ratio Lower Upper

105 100

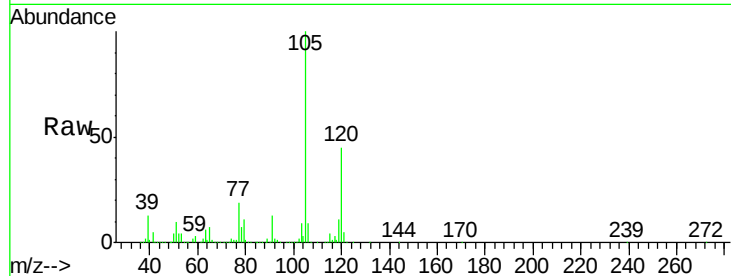
120 45.5 35.8 53.8

Manual Integrations

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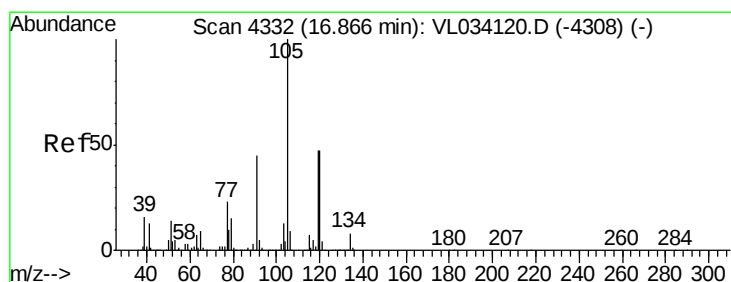
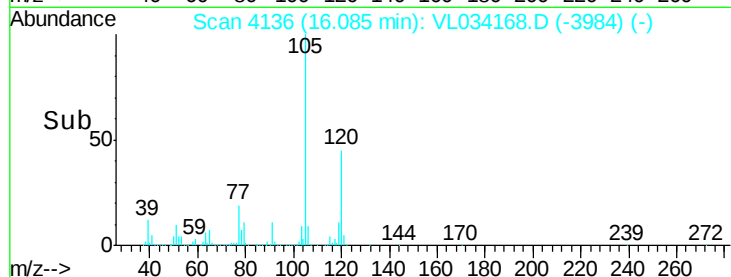
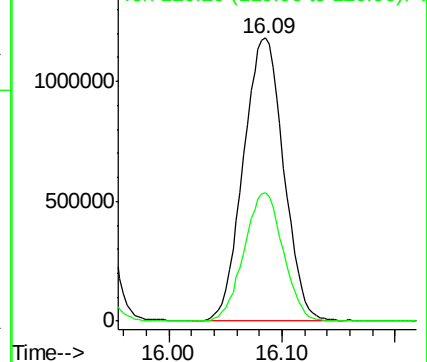
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.738 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. -0.01 min

Lab File: VL034168.D

Acq: 13 Sep 2019 9:23

Tgt Ion:105 Resp: 2912589

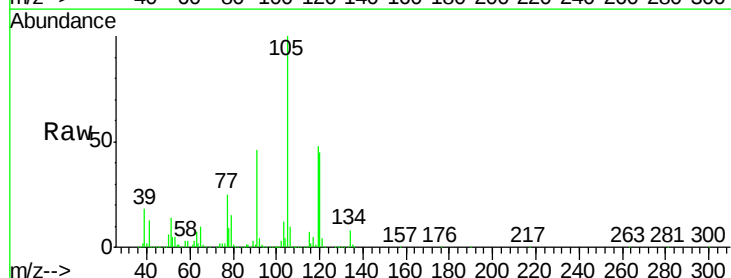
Ion Ratio Lower Upper

105 100

120 45.1 37.7 56.5

91 46.0 36.2 54.2

77 24.6 18.5 27.7

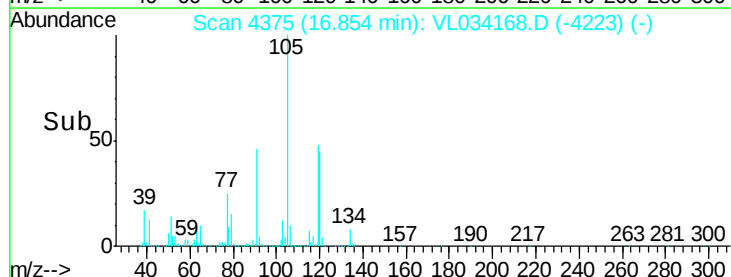
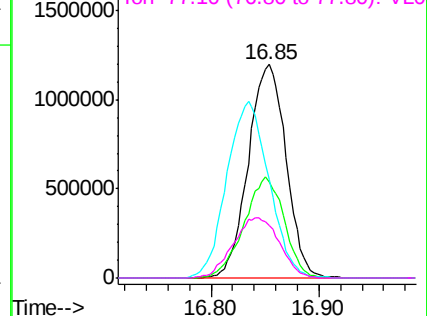


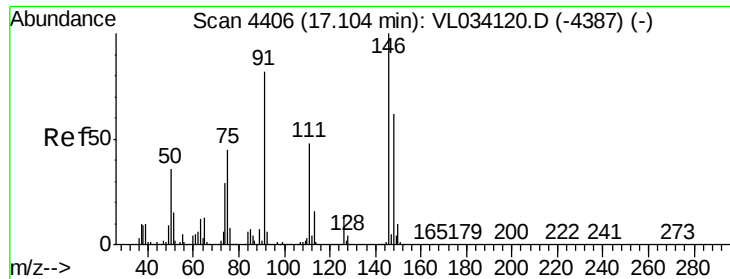
Abundance Ion 105.10 (104.80 to 105.80): V

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





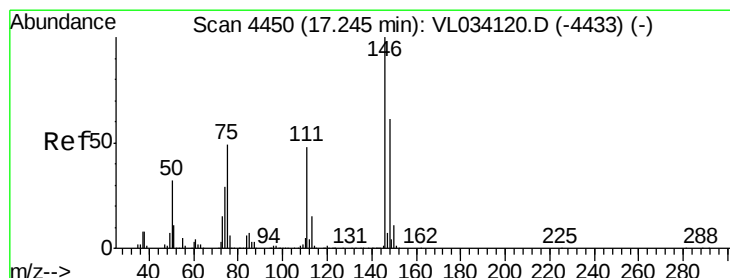
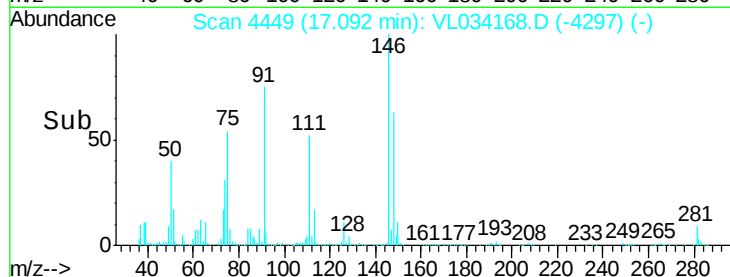
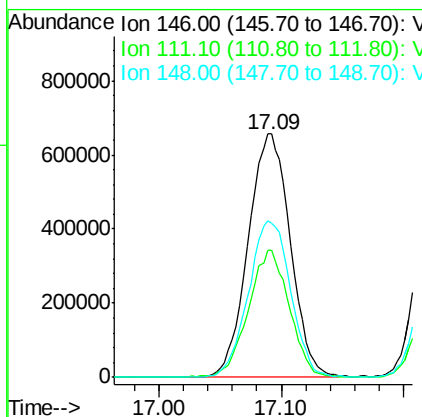
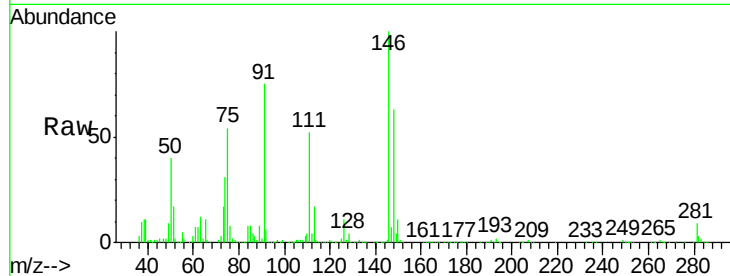
#75
 1,3-Dichlorobenzene
 Concen: 8.862 ppbv
 RT: 17.09 min Scan# 4449
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1565184
 Ion Ratio Lower Upper
 146 100
 111 51.1 24.9 74.7
 148 64.7 32.5 97.5

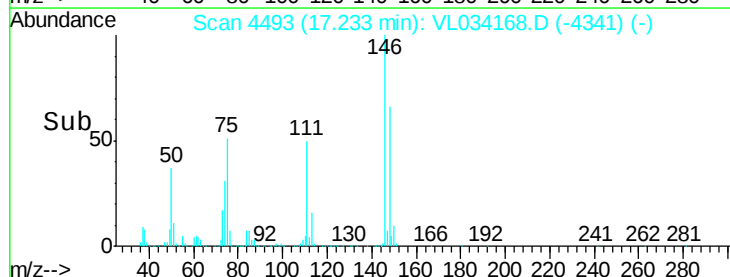
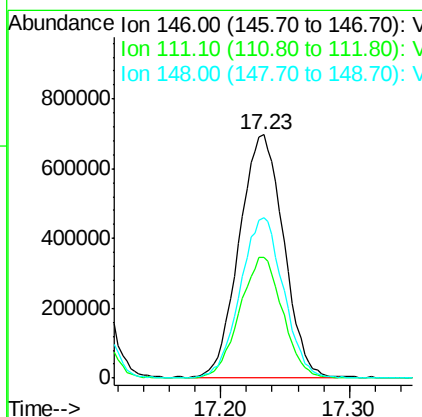
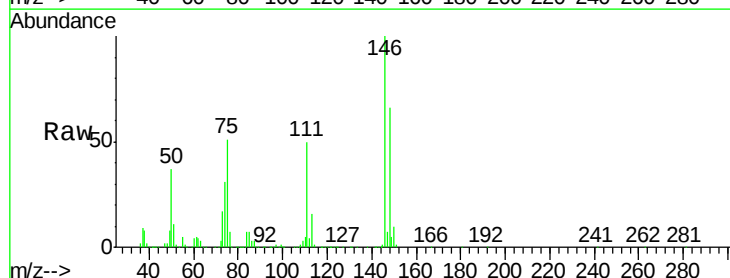
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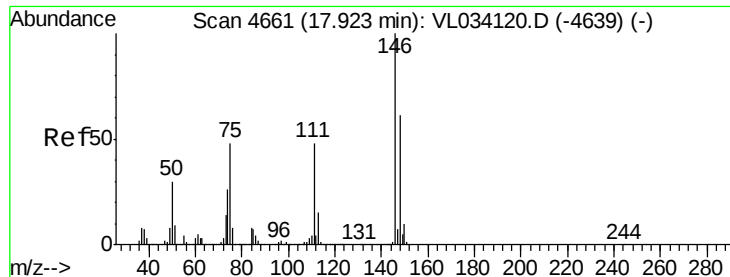
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#76
 1,4-Dichlorobenzene
 Concen: 8.995 ppbv
 RT: 17.23 min Scan# 4493
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion:146 Resp: 1665055
 Ion Ratio Lower Upper
 146 100
 111 48.3 24.3 72.8
 148 64.7 32.6 98.0





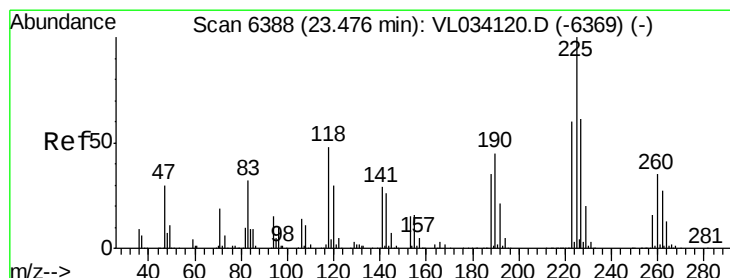
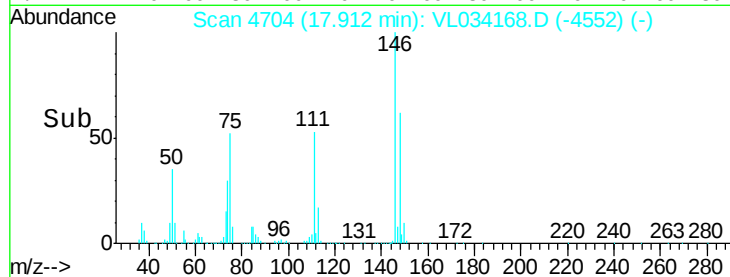
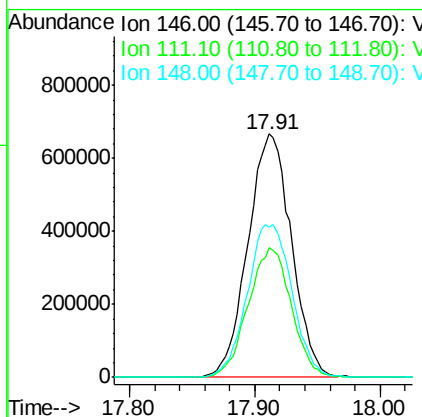
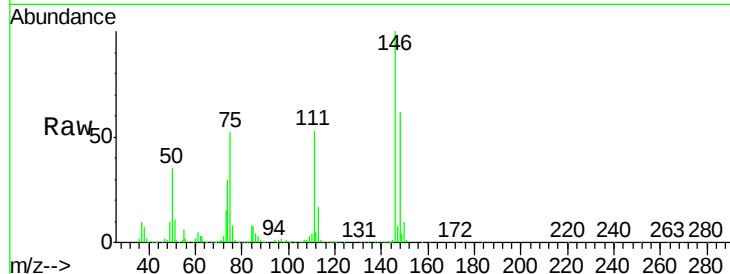
#77
 1,2-Dichlorobenzene
 Concen: 8.896 ppbv
 RT: 17.91 min Scan# 4704
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1608626
 Ion Ratio Lower Upper
 146 100
 111 52.9 25.1 75.4
 148 64.9 32.0 96.2

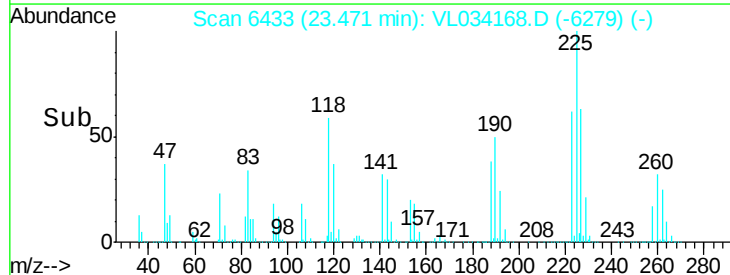
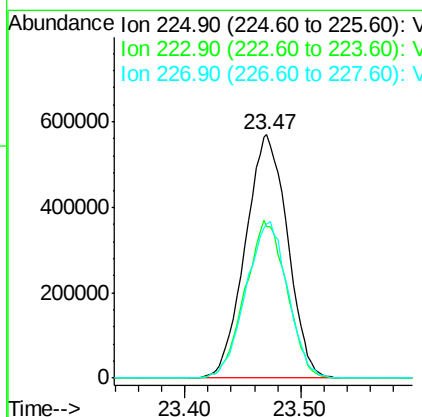
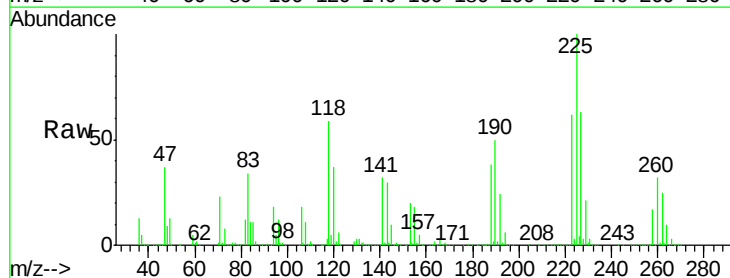
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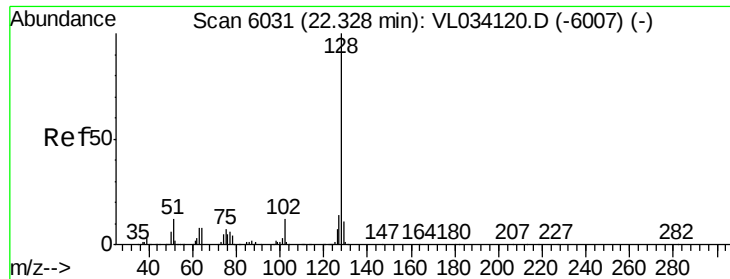
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#78
 Hexachloro-1,3-Butadiene
 Concen: 11.697 ppbv
 RT: 23.47 min Scan# 6433
 Delta R.T. -0.01 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Tgt Ion:225 Resp: 1442920
 Ion Ratio Lower Upper
 225 100
 223 63.7 50.3 75.5
 227 63.7 50.9 76.3





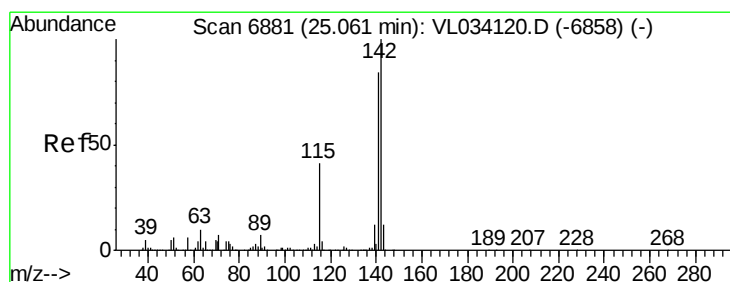
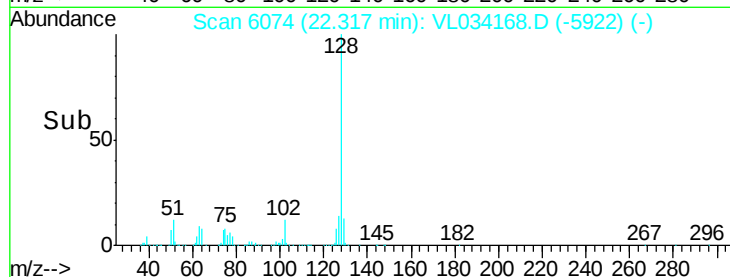
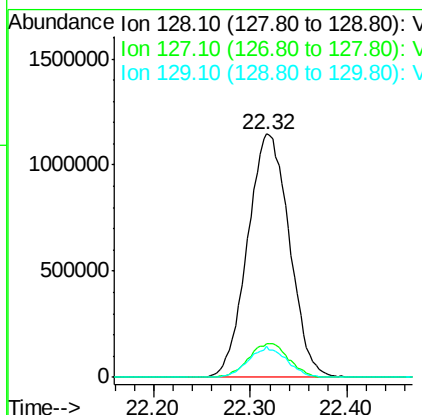
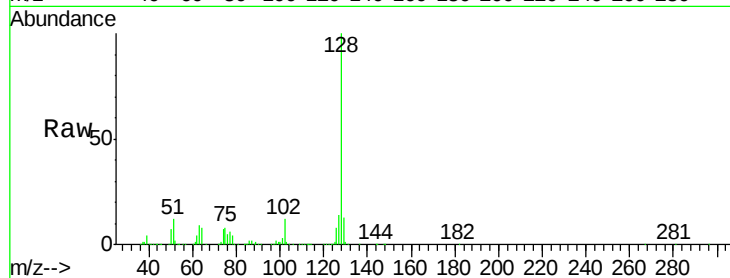
#79
Naphthalene
Concen: 11.418 ppbv
RT: 22.32 min Scan# 6074
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.9	16.3
129	13.0	8.5	12.7

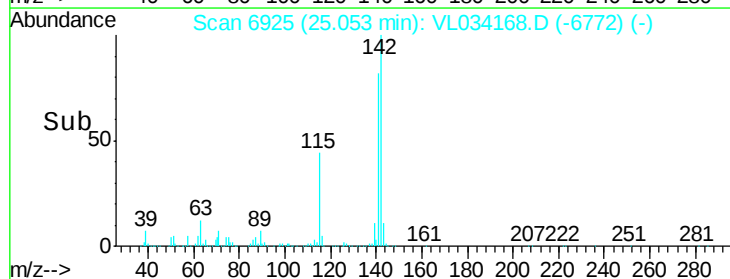
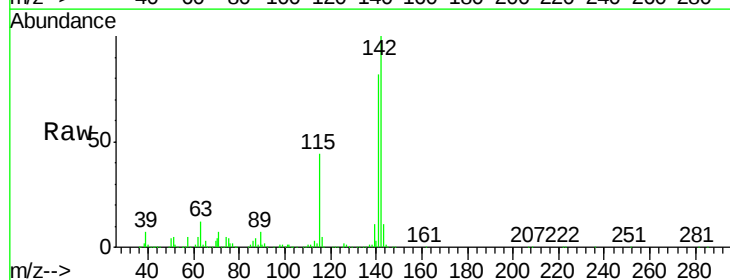
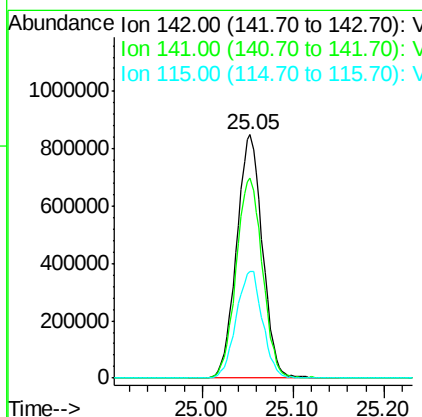
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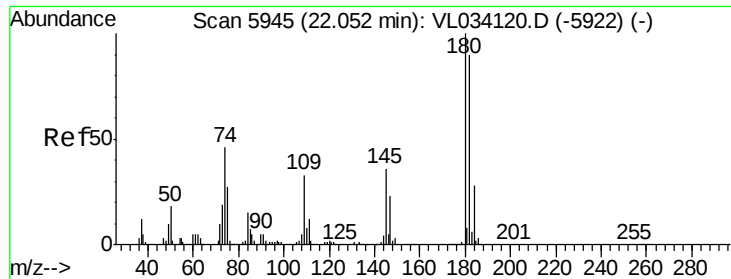
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#80
Naphthalene, 2-methyl-
Concen: 16.013 ppbv
RT: 25.05 min Scan# 6925
Delta R.T. -0.01 min
Lab File: VL034168.D
Acq: 13 Sep 2019 9:23

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	67.6	101.4
115	44.6	34.6	52.0





#81
 1,2,4-Trichlorobenzene
 Concen: 10.684 ppbv m
 RT: 22.05 min Scan# 5991
 Delta R.T. -0.00 min
 Lab File: VL034168.D
 Acq: 13 Sep 2019 9:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.0	115.4#
184	0.0	25.5	38.3#

Manual Integrations
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