

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034665.D
 Acq On : 20 Feb 2020 9:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:24:37 PM

Quant Time: Feb 20 15:10:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	857877	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1771399	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1982361m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1589971	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1433181	7.585	ppbv	94
3) Chlorodifluoromethane	2.95	51	1184597	11.428	ppbv	100
4) Chloromethane	3.10	50	721317	11.373	ppbv	99
5) Vinyl Chloride	3.22	62	690777	11.402	ppbv	97
6) Bromomethane	3.44	94	385976	12.249	ppbv	92
7) Chloroethane	3.52	64	263708	11.705	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	1692443	11.459	ppbv	100
9) Propene	2.97	41	445301	11.033	ppbv	98
10) Heptane	8.13	43	1199341	11.808	ppbv	97
11) Trichlorofluoromethane	3.92	101	2047750	11.930	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1375491	12.282	ppbv	98
13) Ethanol	3.57	45	117756	10.892	ppbv	97
14) Bromoethene	3.71	108	537196	12.228	ppbv	98
15) Acetone	3.82	43	1406316	11.154	ppbv	99
16) 1,3-Butadiene	3.29	39	612683	12.237	ppbv	98
17) tert-Butyl alcohol	4.27	59	1314303	14.175	ppbv	98
18) 1,1-Dichloroethene	4.26	96	600617	12.705	ppbv	98
19) Isopropyl Alcohol	3.94	45	1020267	13.867	ppbv #	98
20) Methylene Chloride	4.32	84	519793	10.827	ppbv	96
21) Allyl Chloride	4.38	41	981975	12.541	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	621135	12.545	ppbv	91
23) Vinyl Acetate	5.06	43	1659876	11.539	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1384960	11.532	ppbv	100
25) Ethyl Acetate	5.66	43	2307120	11.303	ppbv	99
26) Hexane	5.67	57	983385	11.502	ppbv	99
27) Carbon Disulfide	4.53	76	1567913	13.591	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1703257	11.681	ppbv	100
29) Chloroform	5.74	83	1722718	11.395	ppbv	99
30) Cyclohexane	7.13	84	788828	12.451	ppbv	96
31) cis-1,2-Dichloroethene	5.54	61	1054306	11.869	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	1806602	11.129	ppbv	100
34) 2-Butanone	5.23	43	1425474	11.083	ppbv	99
35) Carbon Tetrachloride	7.02	117	1997191	11.793	ppbv	95
36) Benzene	6.89	78	1864489	11.836	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1528104	11.627	ppbv	99
38) Trichloroethene	7.84	130	824165	12.412	ppbv	97
39) 1,2-Dichloropropane	7.62	63	745557	11.417	ppbv	98
40) 1,4-Dioxane	7.83	88	314205	12.517	ppbv	87
41) Tetrahydrofuran	6.04	42	773985	11.535	ppbv	98
42) Bromodichloromethane	7.80	83	1919457	11.866	ppbv	98
43) Methyl Methacrylate	8.01	69	794562	12.541	ppbv	97

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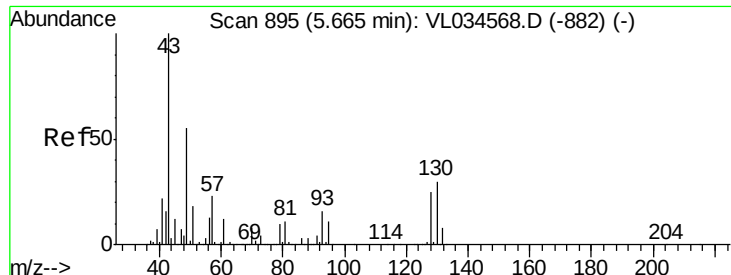
Manual Integrations
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 2/21/2020 3:24:37 PM

Quant Time: Feb 20 15:10:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3339396	11.684	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1119879	13.498	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	1258734	13.349	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	832257	11.767	ppbv	94
48) Dibromochloromethane	10.32	129	1616906	12.475	ppbv	99
49) Bromoform	13.07	173	1445592	12.704	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2148334	11.713	ppbv	99
51) 2-Hexanone	10.14	43	1762708	12.208	ppbv #	100
52) Tetrachloroethene	11.24	164	745107	11.774	ppbv	98
53) Toluene	9.82	91	2194462	12.681	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1257953	11.868	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	1082567	11.061	ppbv	97
57) Chlorobenzene	12.17	112	1791448	10.982	ppbv	98
58) Ethyl Benzene	12.73	91	3069110	11.570	ppbv	97
59) m/p-Xylene	13.02	91	5236584m	22.332	ppbv	
60) o-Xylene	13.72	91	2655121	11.274	ppbv	99
61) Styrene	13.55	104	1906518	12.142	ppbv	99
62) Isopropylbenzene	14.70	105	3421067	11.210	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1843942	10.124	ppbv	100
64) n-propylbenzene	15.59	120	870117	11.082	ppbv	89
65) tert-Butylbenzene	16.77	119	3143075	11.368	ppbv	100
66) Benzyl Chloride	17.02	91	1503133	12.966	ppbv	99
67) sec-Butylbenzene	17.33	105	4242804	11.166	ppbv	100
69) p-Isopropyltoluene	17.69	119	3579562	11.602	ppbv	100
70) n-Butylbenzene	18.58	91	3728539	11.385	ppbv	99
71) 2-Chlorotoluene	15.48	91	2609467	11.265	ppbv	99
72) 4-Ethyltoluene	15.87	105	2963343	11.455	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2886234	11.418	ppbv	96
74) 1,2,4-Trimethylbenzene	16.79	105	3059069	10.932	ppbv #	90
75) 1,3-Dichlorobenzene	17.03	146	1709940	10.613	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1709108	10.763	ppbv	100
77) 1,2-Dichlorobenzene	17.85	146	1624472	10.495	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1540116	10.405	ppbv	99
79) Naphthalene	22.25	128	2613777	11.865	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1404840	16.576	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1596172	11.753	ppbv	99

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



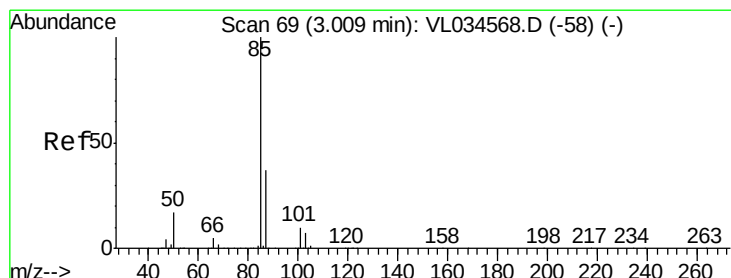
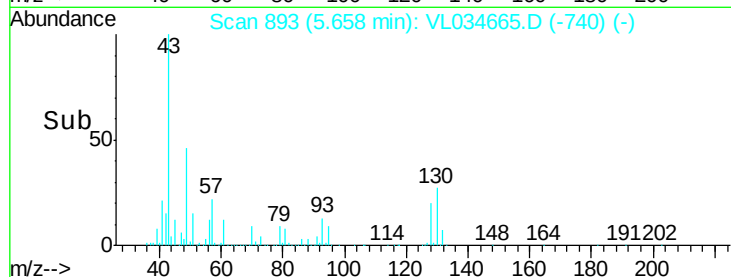
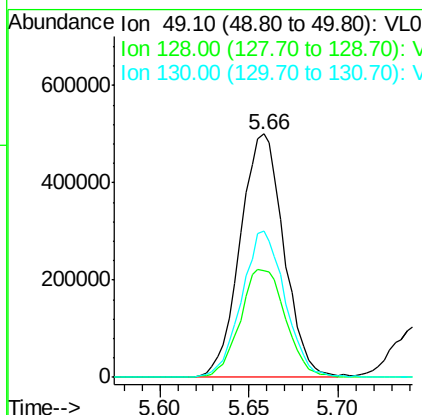
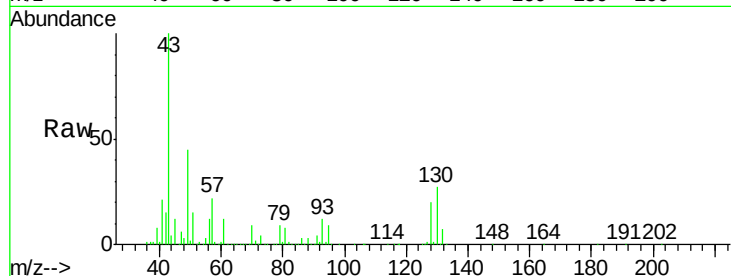
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.6	22.7	68.1
130	59.7	28.6	85.8

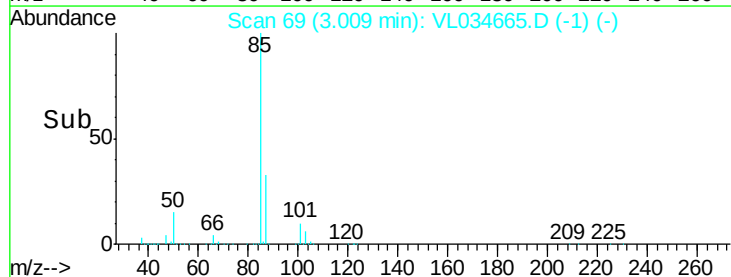
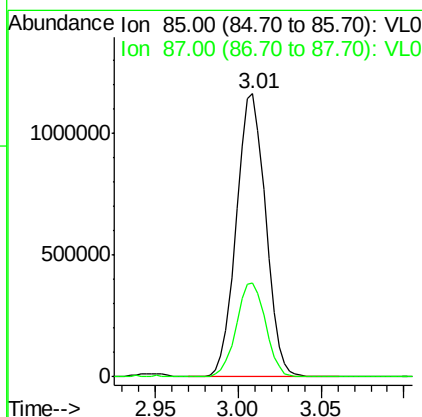
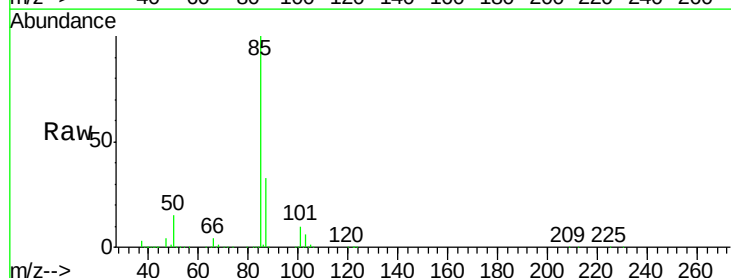
Manual Integrations
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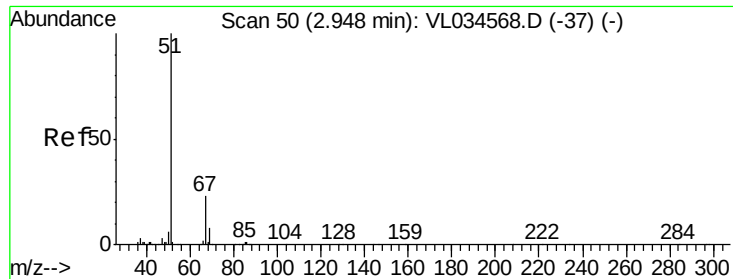
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#2
Dichlorodifluoromethane
Concen: 7.585 ppbv
RT: 3.01 min Scan# 69
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	29.5	44.3





#3

Chlorodifluoromethane

Concen: 11.428 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1184597

Ion Ratio Lower Upper

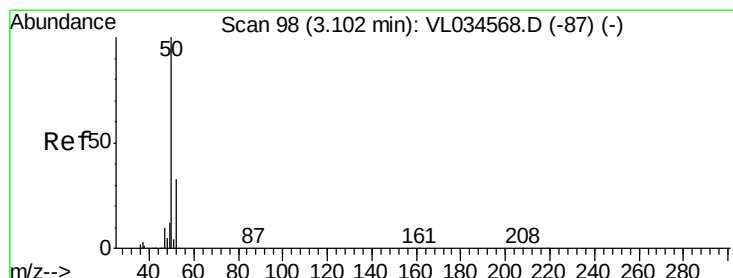
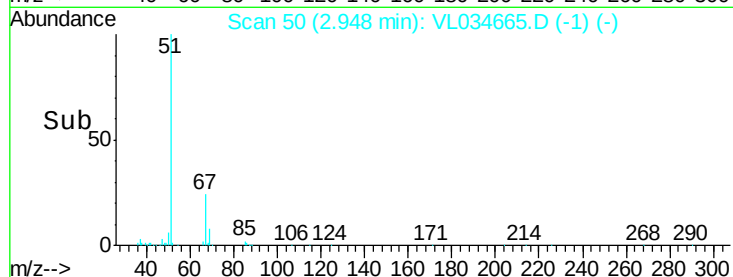
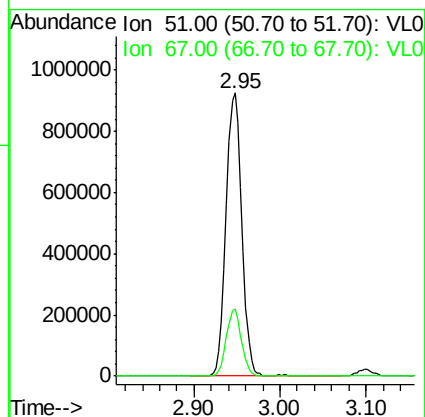
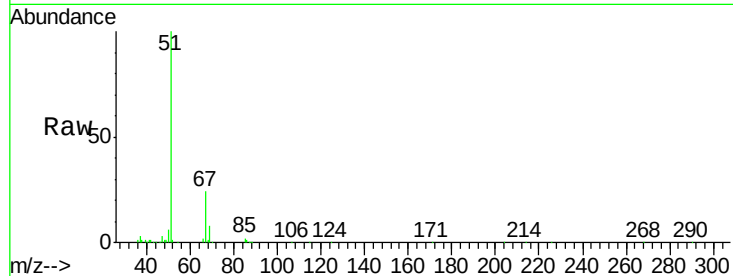
51 100

67 22.5 17.8 26.8

Manual Integrations
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#4

Chloromethane

Concen: 11.373 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034665.D

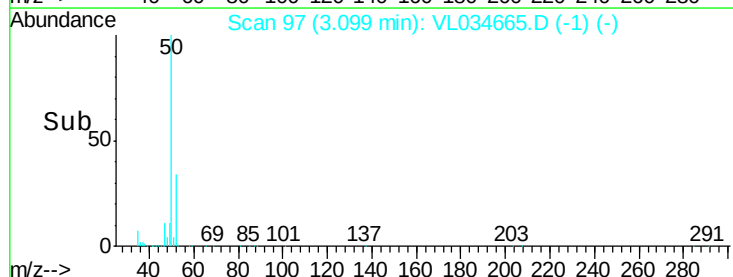
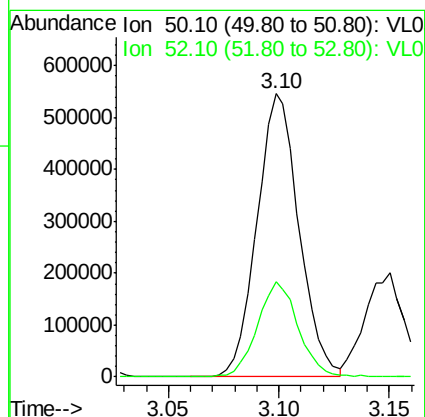
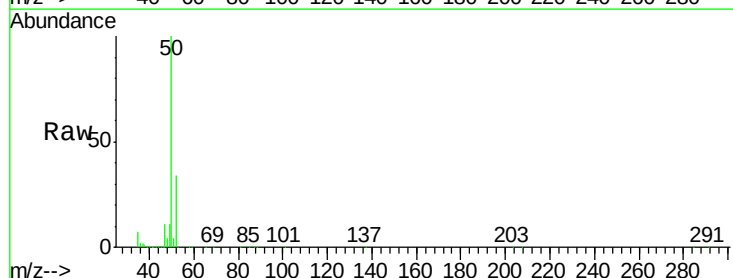
Acq: 20 Feb 2020 9:49

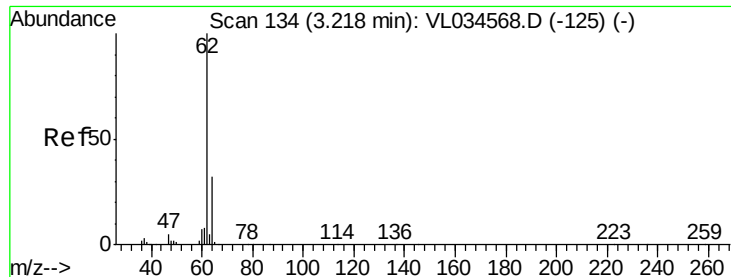
Tgt Ion: 50 Resp: 721317

Ion Ratio Lower Upper

50 100

52 33.7 26.6 39.8





#5

Vinyl Chloride

Concen: 11.402 ppbv

RT: 3.22 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 690777

Ion Ratio Lower Upper

62 100

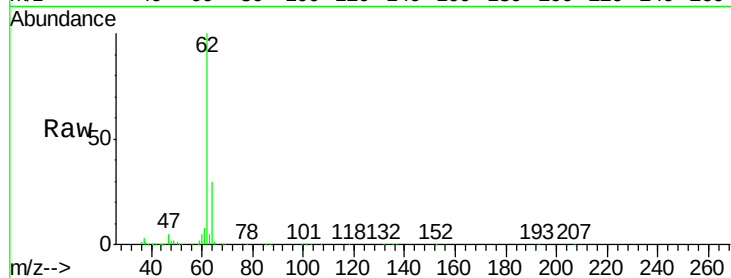
64 30.5 25.8 38.6

Manual Integrations

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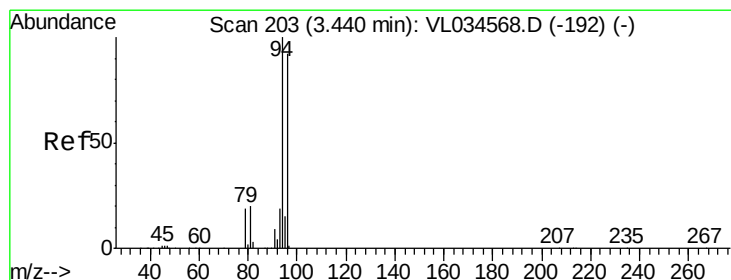
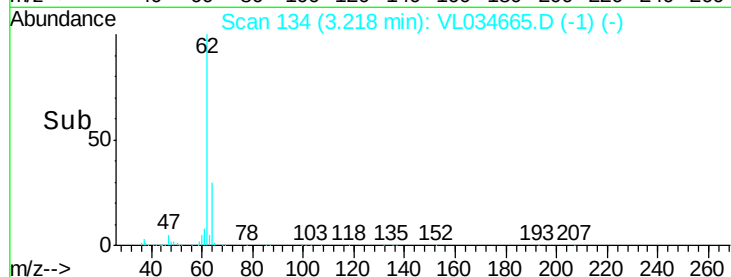
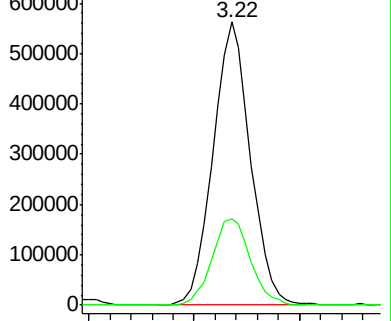
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 12.249 ppbv

RT: 3.44 min Scan# 202

Delta R.T. -0.00 min

Lab File: VL034665.D

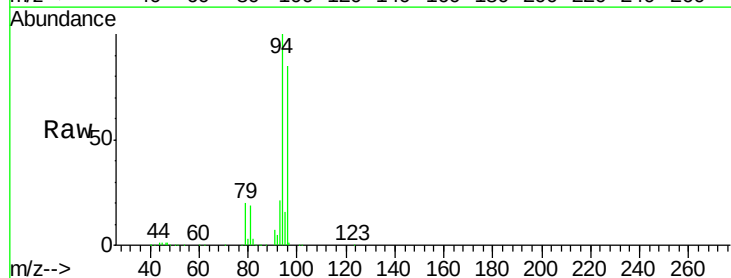
Acq: 20 Feb 2020 9:49

Tgt Ion: 94 Resp: 385976

Ion Ratio Lower Upper

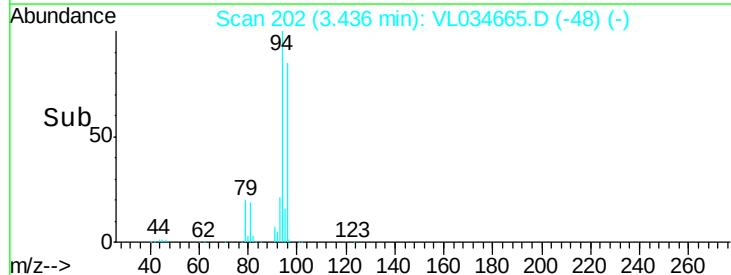
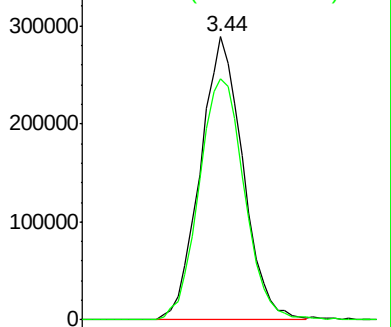
94 100

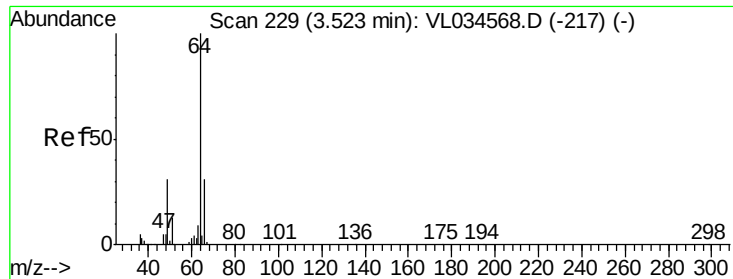
96 84.8 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 11.705 ppbv

RT: 3.52 min Scan# 228

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 263708

Ion Ratio Lower Upper

64 100

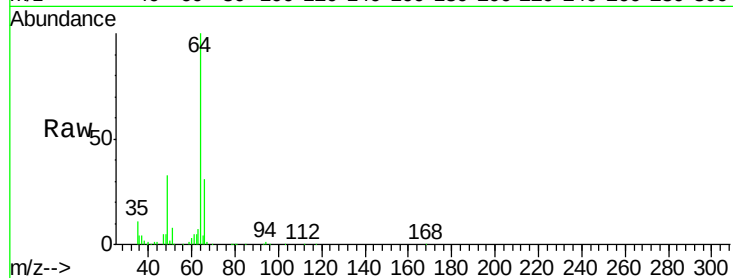
66 31.0 25.0 37.4

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.52

200000

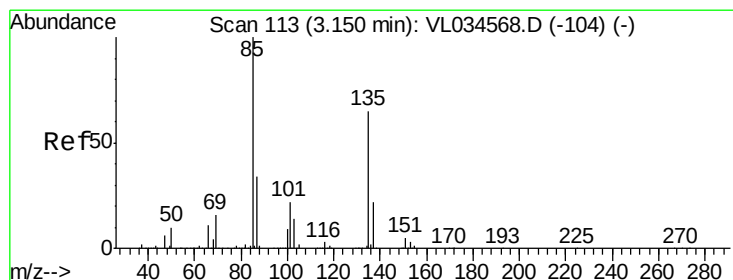
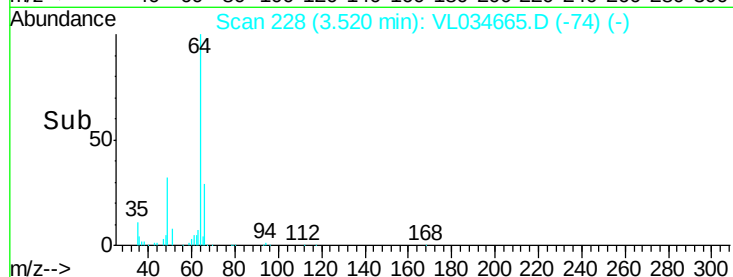
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 11.459 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL034665.D

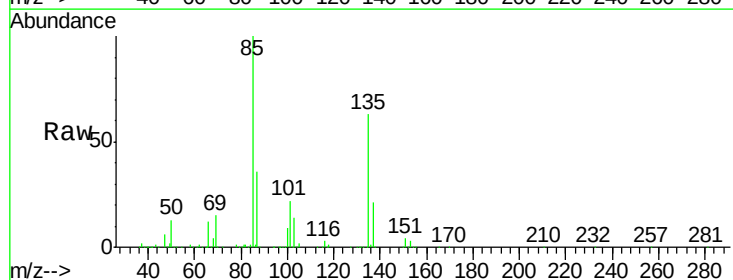
Acq: 20 Feb 2020 9:49

Tgt Ion: 85 Resp: 1692443

Ion Ratio Lower Upper

85 100

135 65.0 52.2 78.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.15

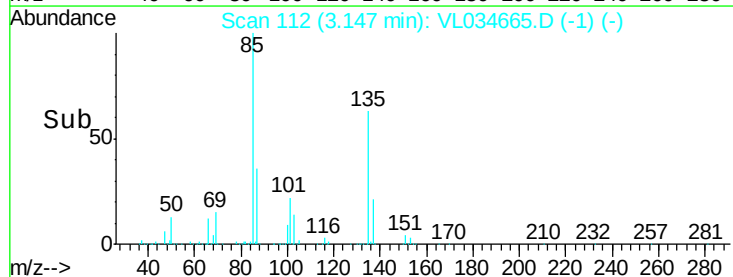
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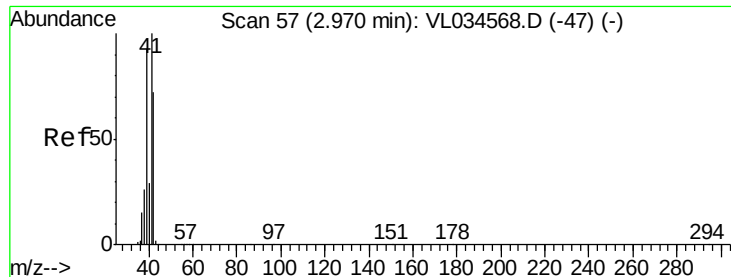
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500000

0

Time-->





#9

Propene

Concen: 11.033 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 445301

Ion Ratio Lower Upper

41 100

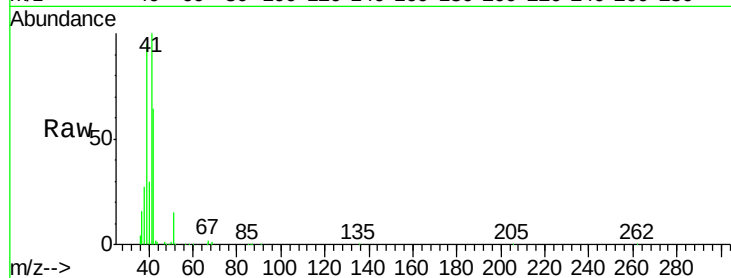
42 69.2 57.0 85.4

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.97

400000

300000

200000

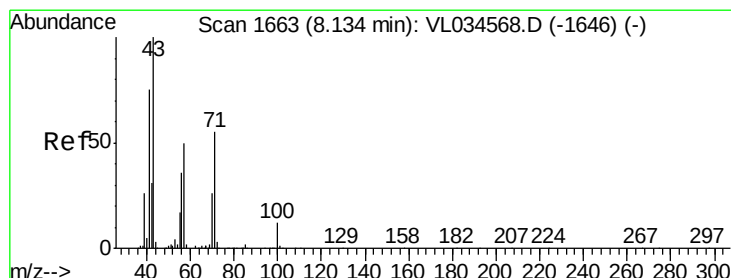
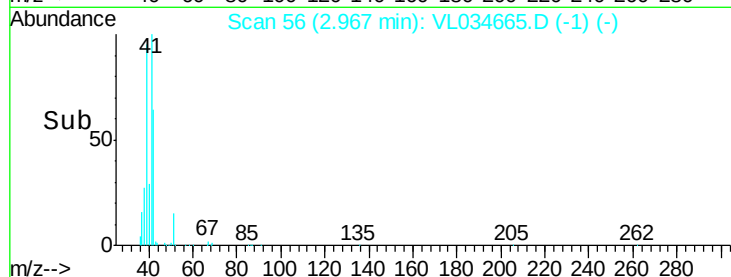
100000

0

2.95

3.00

Time-->



#10

Heptane

Concen: 11.808 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.01 min

Lab File: VL034665.D

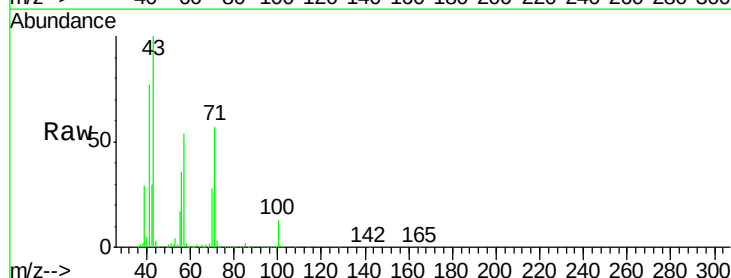
Acq: 20 Feb 2020 9:49

Tgt Ion: 43 Resp: 1199341

Ion Ratio Lower Upper

43 100

57 53.3 41.2 61.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.13

600000

400000

200000

0

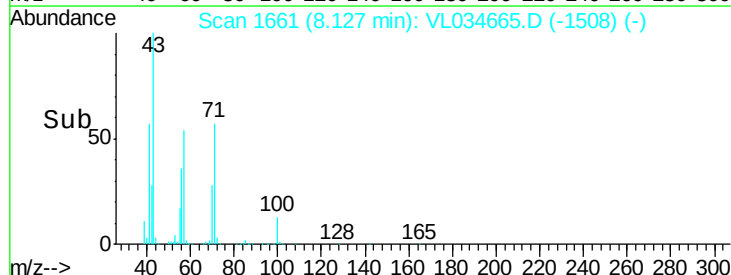
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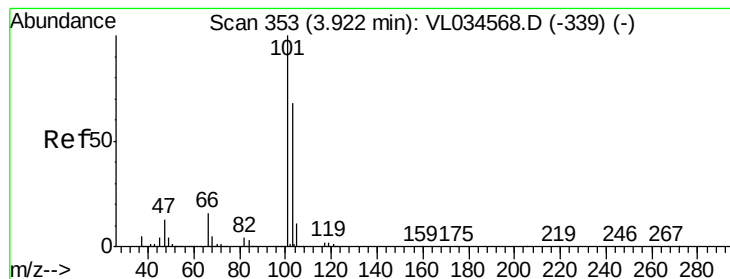
8.10

8.15

8.20

Time-->





#11

Trichlorofluoromethane

Concen: 11.930 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2047750

Ion Ratio Lower Upper

101 100

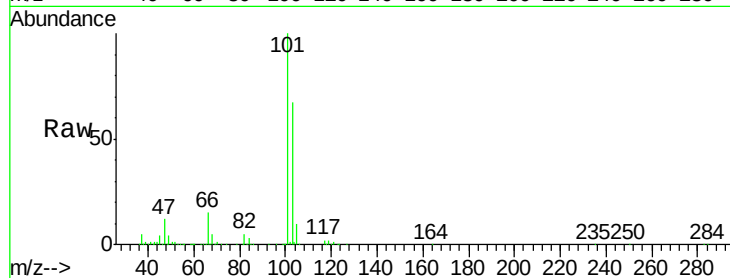
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Manual Integrations

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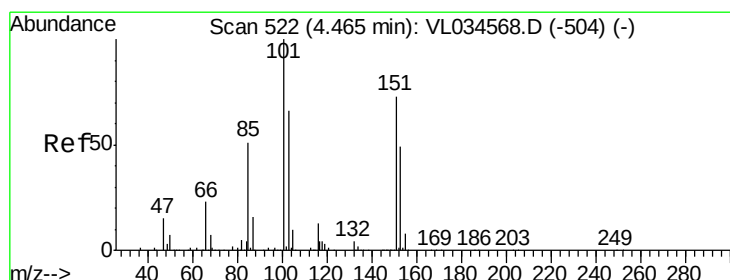
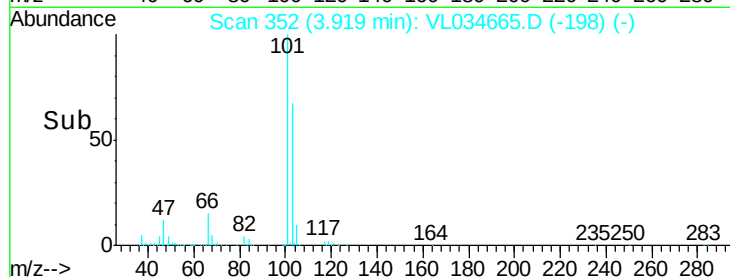
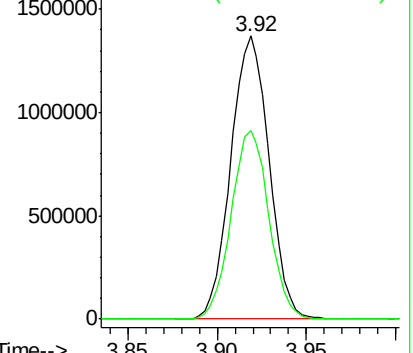
MMDadoda

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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: 12.282 ppbv

RT: 4.46 min Scan# 520

Delta R.T. -0.01 min

Lab File: VL034665.D

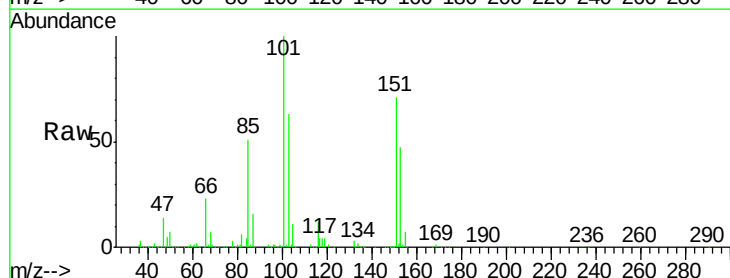
Acq: 20 Feb 2020 9:49

Tgt Ion:101 Resp: 1375491

Ion Ratio Lower Upper

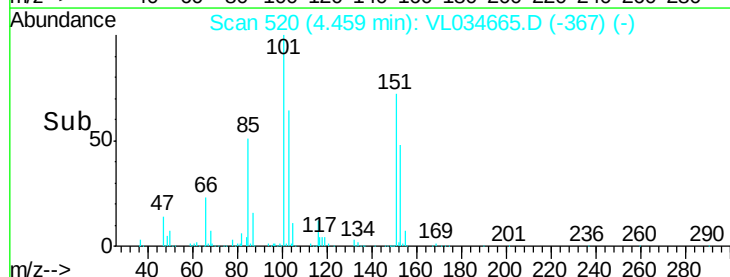
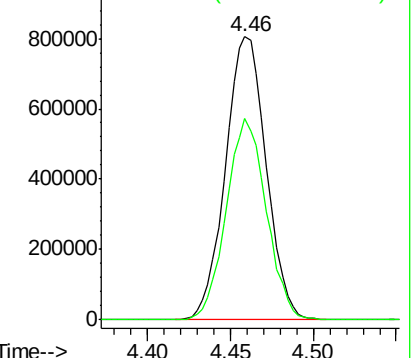
101 100

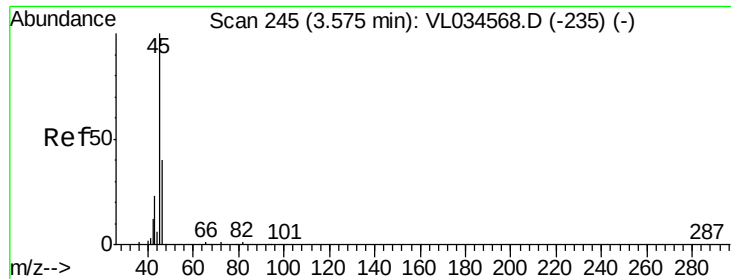
151 70.1 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





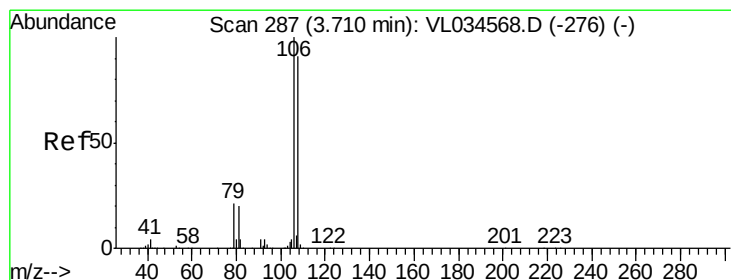
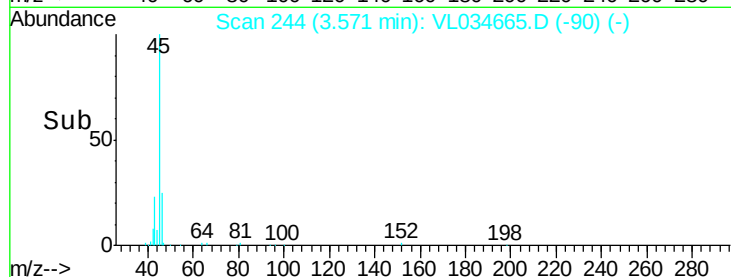
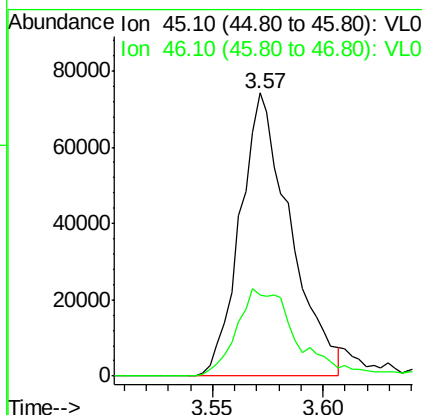
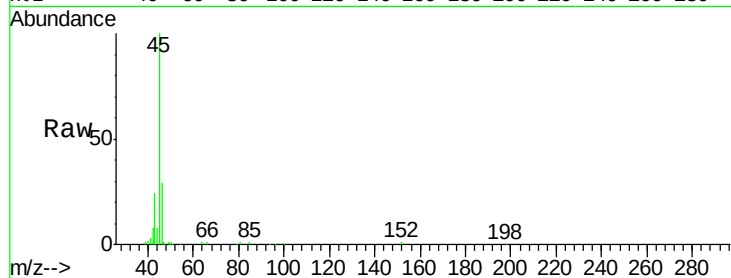
#13
Ethanol
Concen: 10.892 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 117756
Ion Ratio Lower Upper
45 100
46 38.8 14.8 59.2

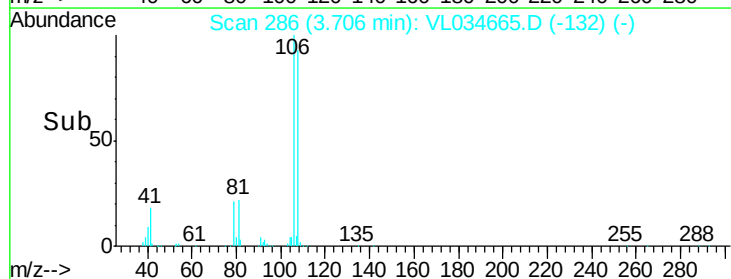
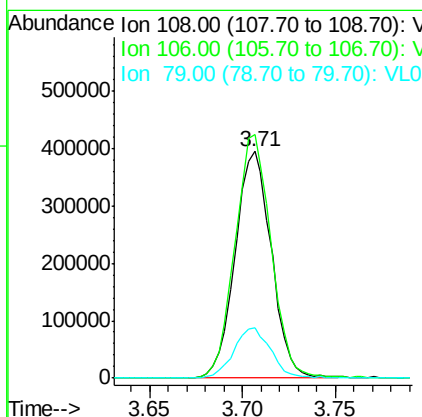
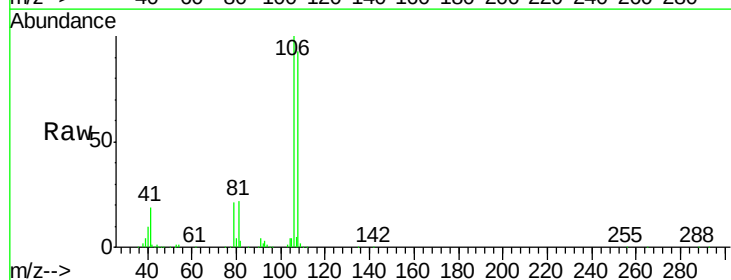
Manual Integrations
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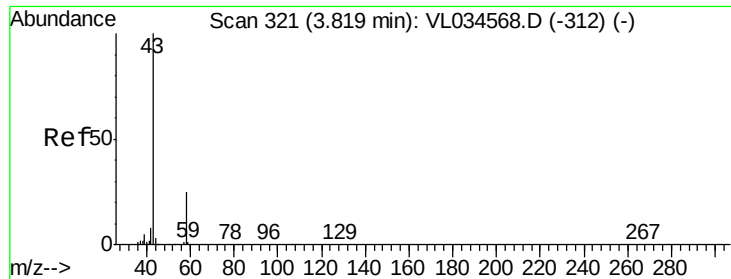
MMDadoda
2/21/2020 3:24:37 PM



#14
Bromoethene
Concen: 12.228 ppbv
RT: 3.71 min Scan# 286
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 108 Resp: 537196
Ion Ratio Lower Upper
108 100
106 107.7 84.6 127.0
79 22.9 18.2 27.2





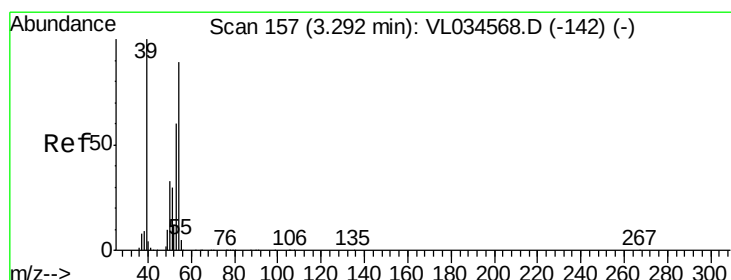
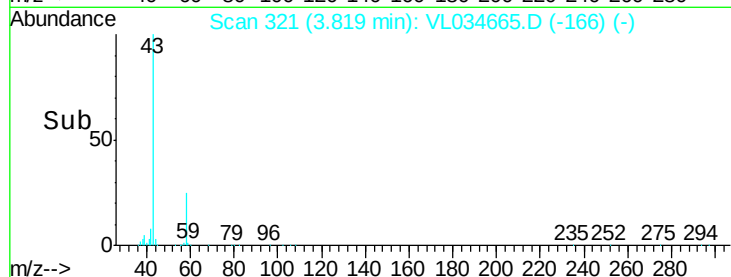
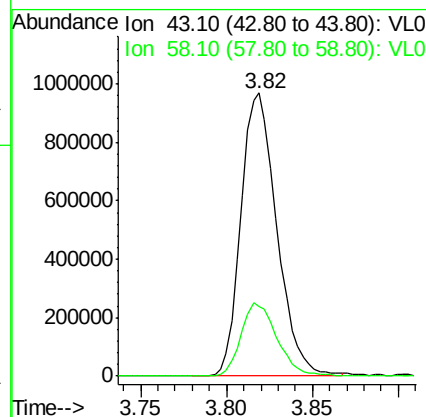
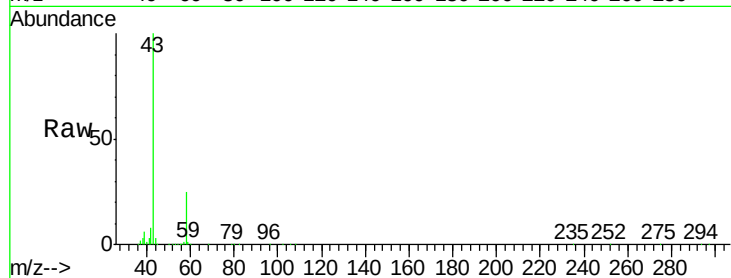
#15
Acetone
Concen: 11.154 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1406316
Ion Ratio Lower Upper
43 100
58 26.1 20.3 30.5

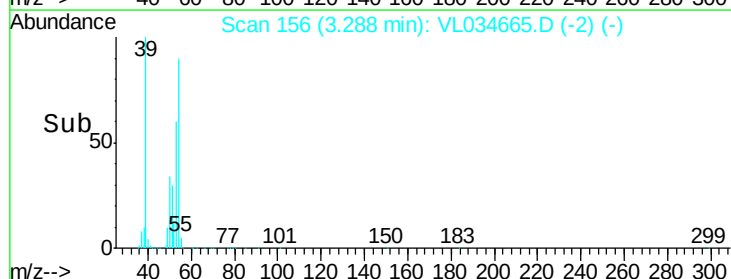
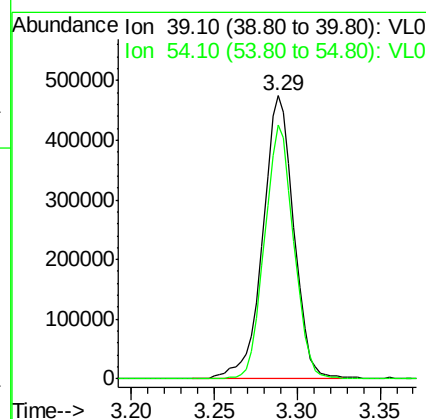
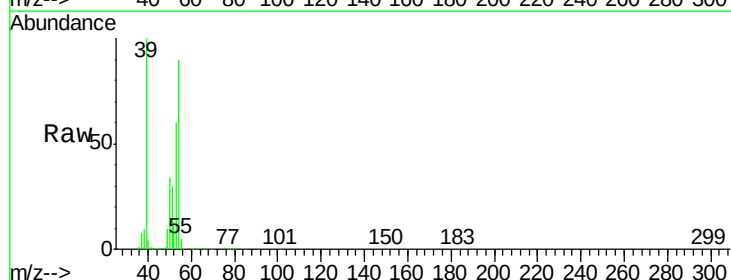
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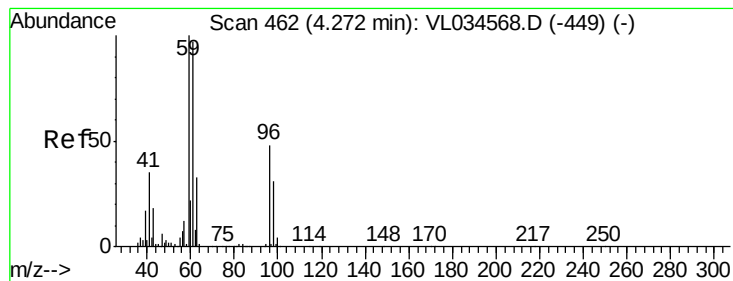
MMDadoda
2/21/2020 3:24:37 PM



#16
1,3-Butadiene
Concen: 12.237 ppbv
RT: 3.29 min Scan# 156
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 39 Resp: 612683
Ion Ratio Lower Upper
39 100
54 84.9 66.7 100.1





#17

tert-Butyl alcohol

Concen: 14.175 ppbv

RT: 4.27 min Scan# 460

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Tot Ion: 59 Resp: 1314303

Ion Ratio Lower Upper

59 100

57 11.5 8.7 13.1

Instrument :

MSVOA_L

ClientSampleId :

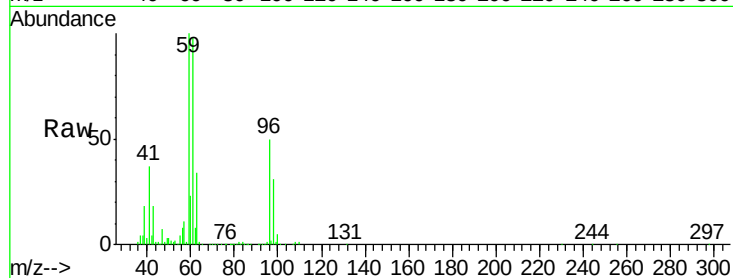
VSTDCCC010EC

Manual Integrations

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MMDadoda

2/21/2020 3:24:37 PM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.27

800000

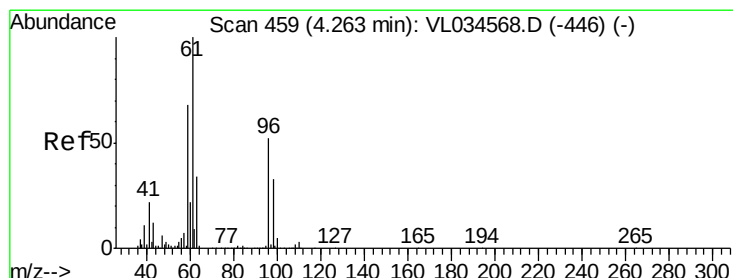
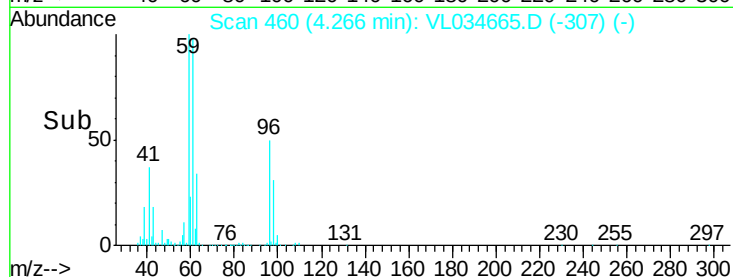
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 12.705 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

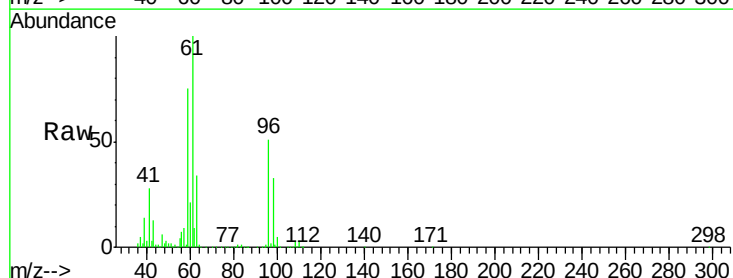
Tgt Ion: 96 Resp: 600617

Ion Ratio Lower Upper

96 100

61 196.3 154.5 231.7

98 65.0 50.3 75.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

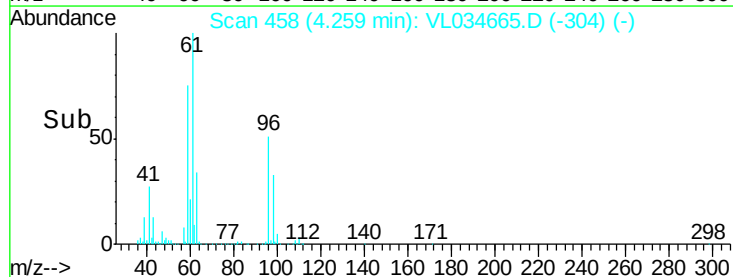
600000

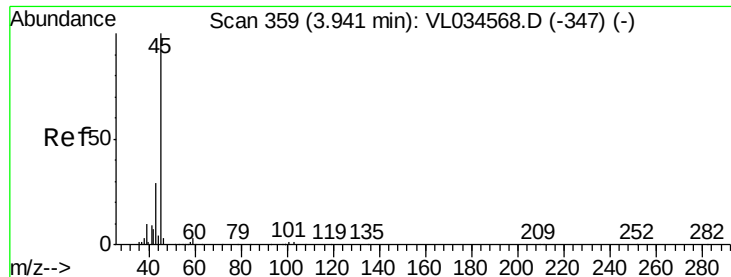
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 13.867 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1020267

Ion Ratio Lower Upper

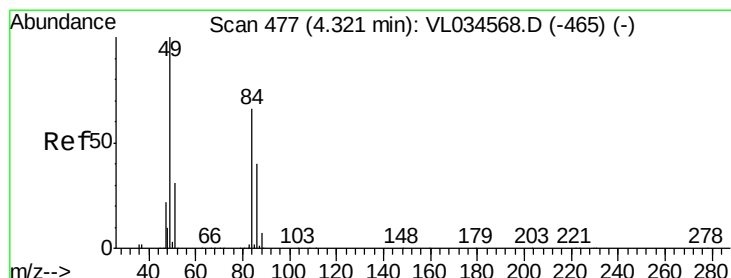
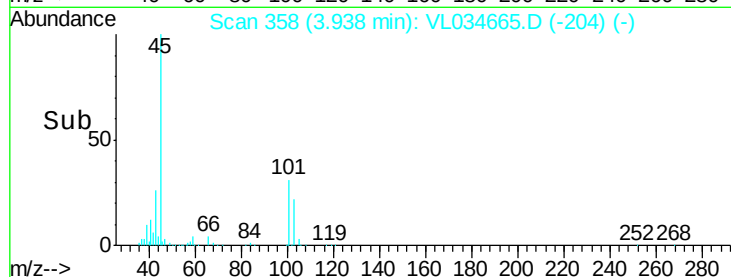
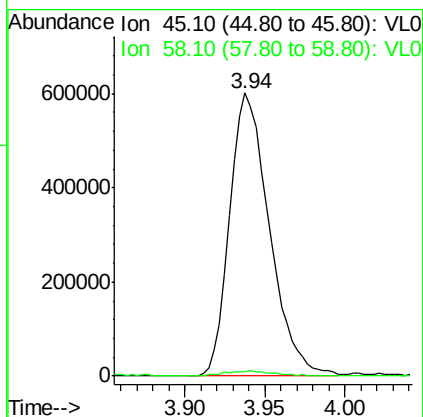
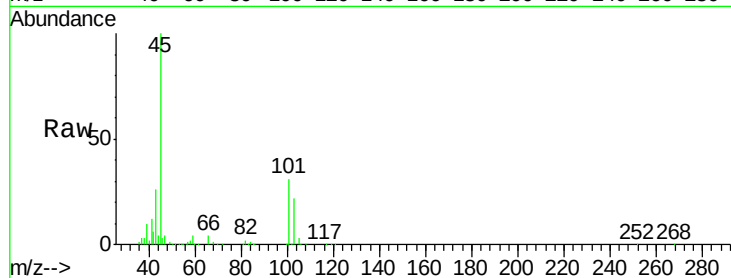
45 100

58 2.6 1.7 2.5#

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#20

Methylene Chloride

Concen: 10.827 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Tgt Ion: 84 Resp: 519793

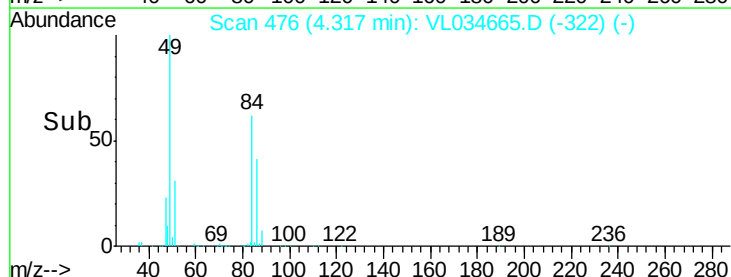
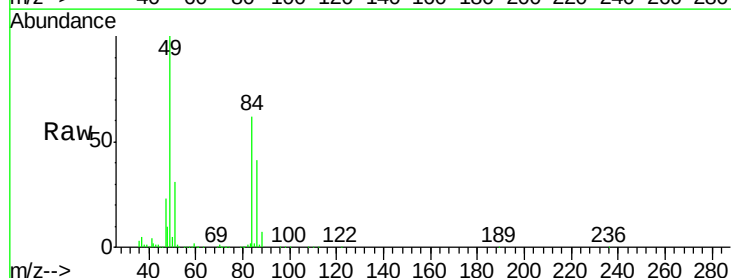
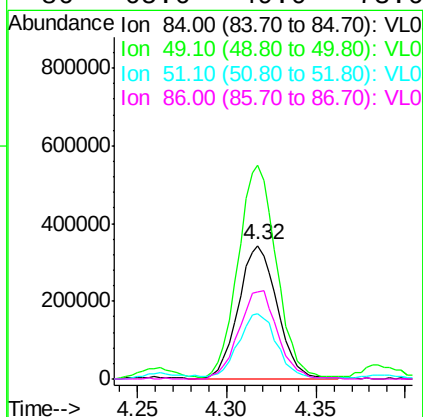
Ion Ratio Lower Upper

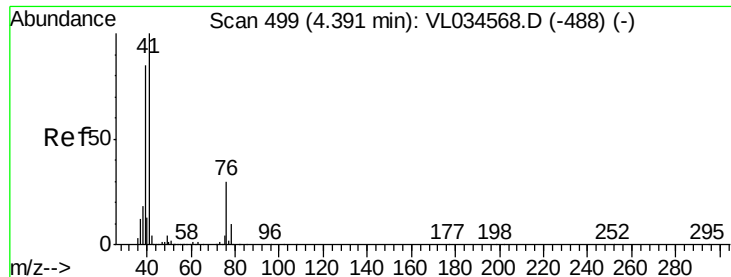
84 100

49 159.2 122.4 183.6

51 48.2 38.6 57.8

86 65.6 49.0 73.6





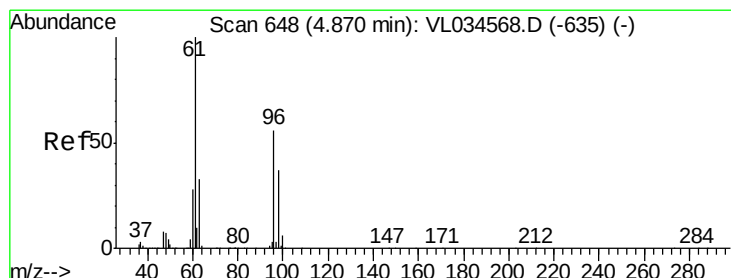
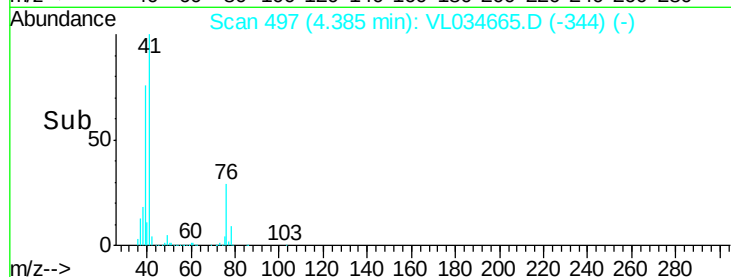
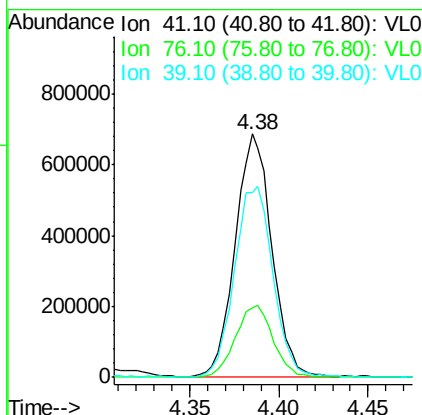
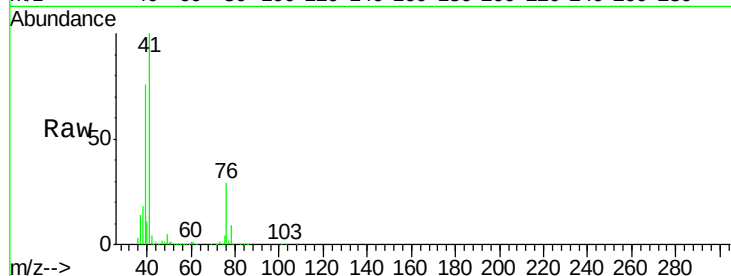
#21
Allvl Chloride
Concen: 12.541 ppbv
RT: 4.38 min Scan# 497
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.2	36.2
39	83.3	68.3	102.5

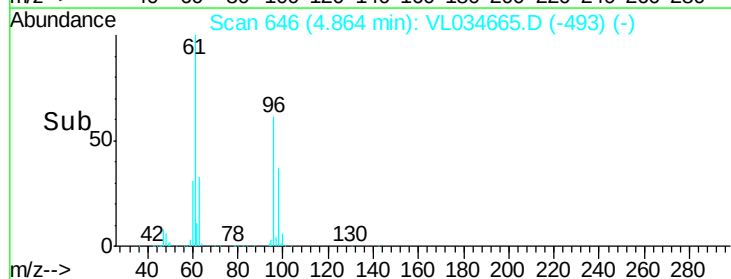
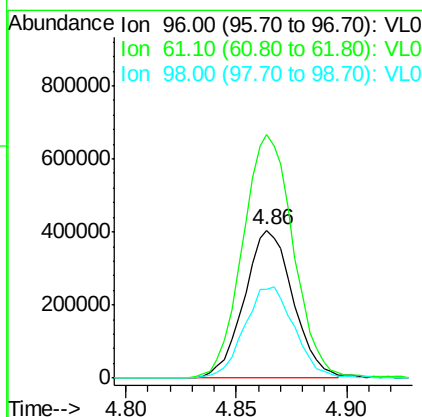
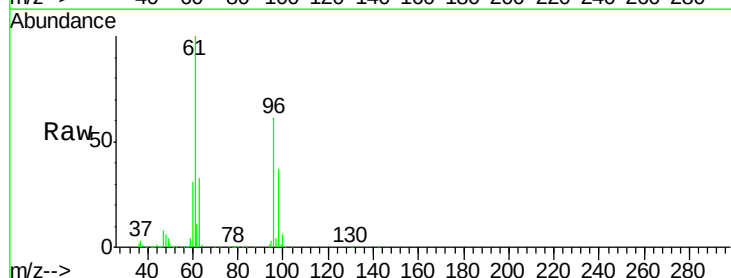
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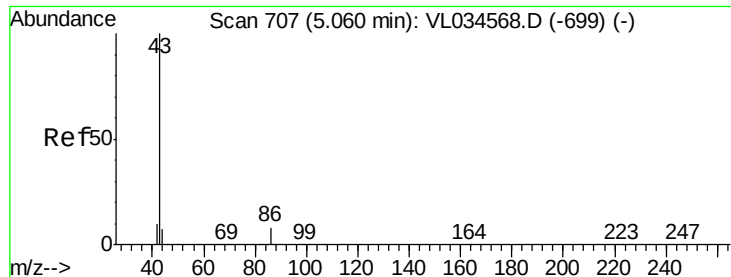
MMDadoda
2/21/2020 3:24:37 PM



#22
trans-1,2-Dichloroethene
Concen: 12.545 ppbv
RT: 4.86 min Scan# 646
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.8	141.9	212.9
98	60.0	53.1	79.7





#23

Vinyl Acetate

Concen: 11.539 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1659876

Ion Ratio Lower Upper

43 100

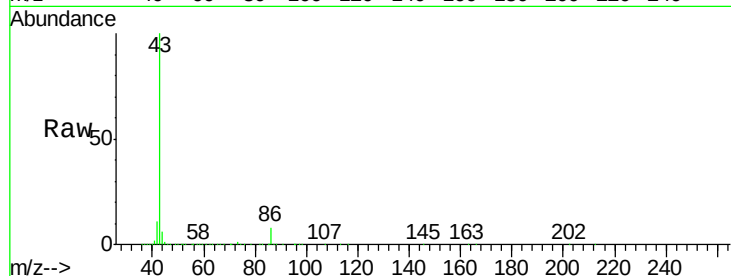
86 7.7 5.9 8.9

42 10.8 8.8 13.2

44 6.0 5.0 7.6

Manual Integrations
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MMDadoda
2/21/2020 3:24:37 PM

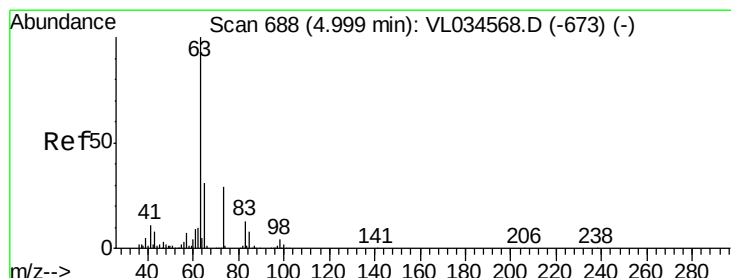
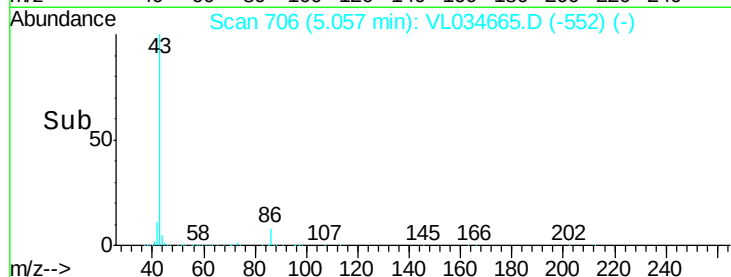
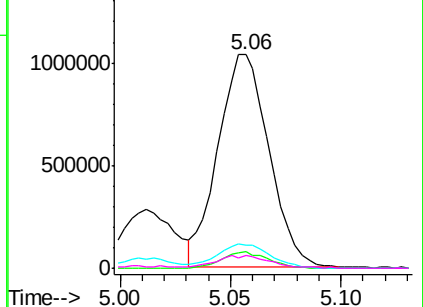


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 11.532 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

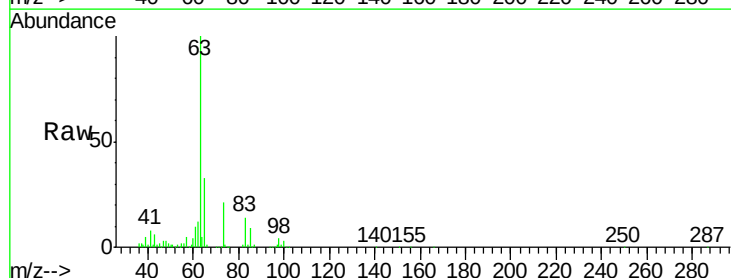
Tgt Ion: 63 Resp: 1384960

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.2

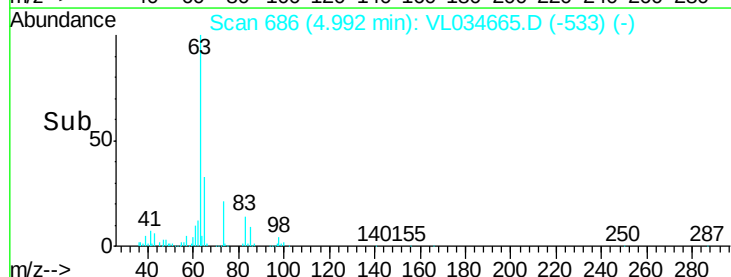
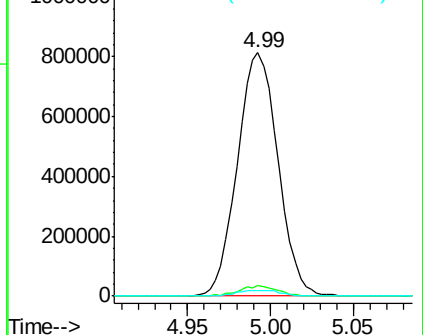
100 2.5 1.1 3.5

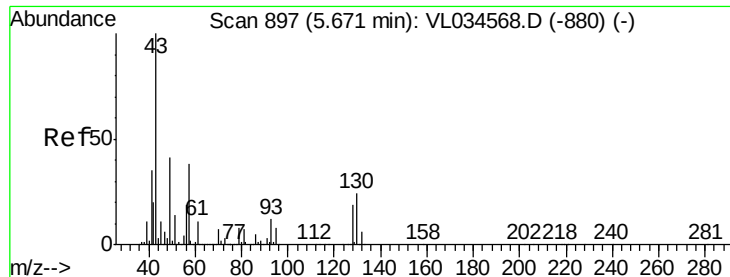


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





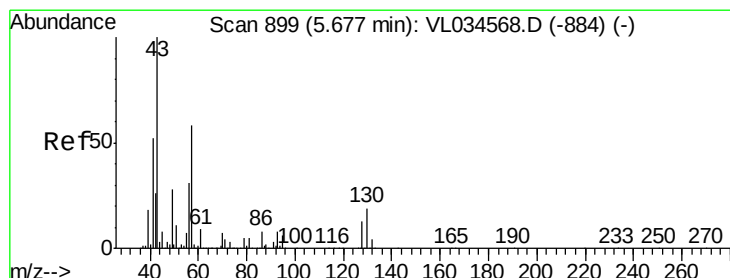
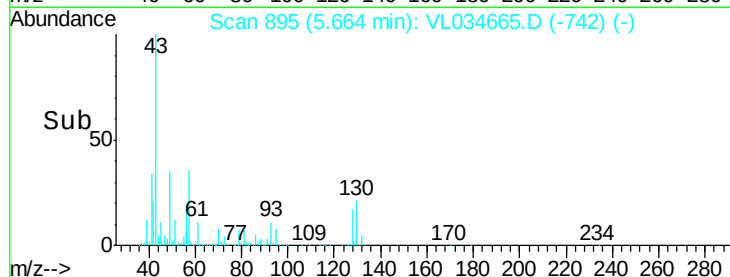
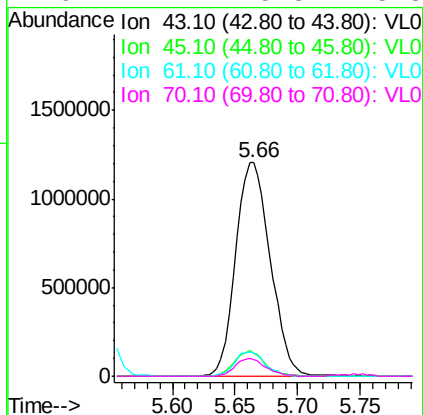
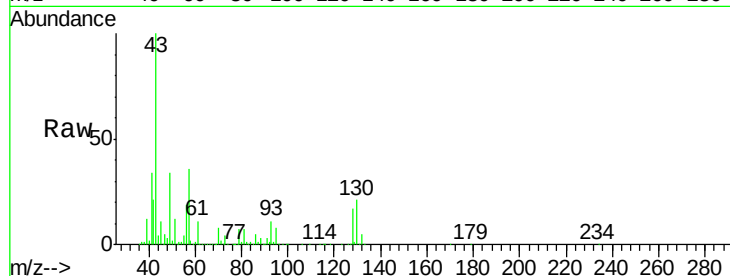
#25
Ethyl Acetate
Concen: 11.303 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.3	8.5	12.7	
61	10.1	7.8	11.6	
70	7.4	5.8	8.8	

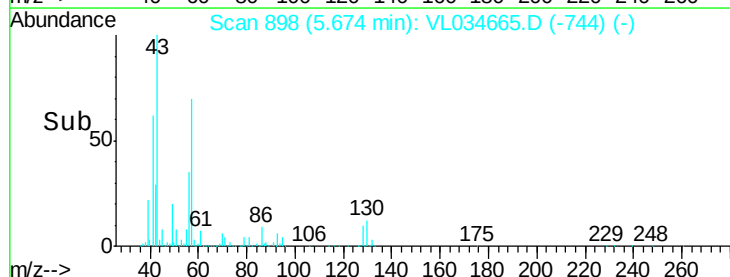
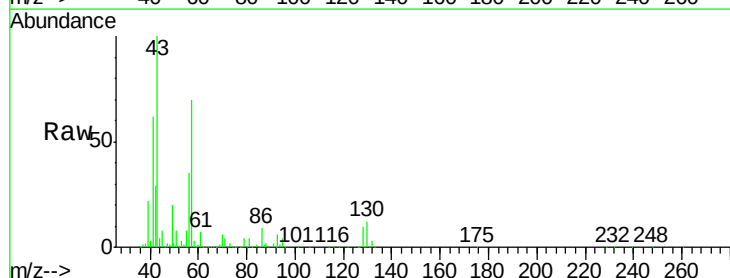
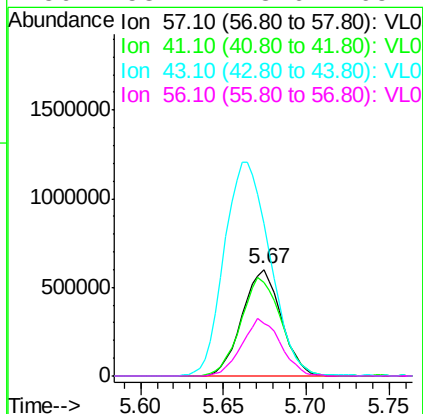
Manual Integrations
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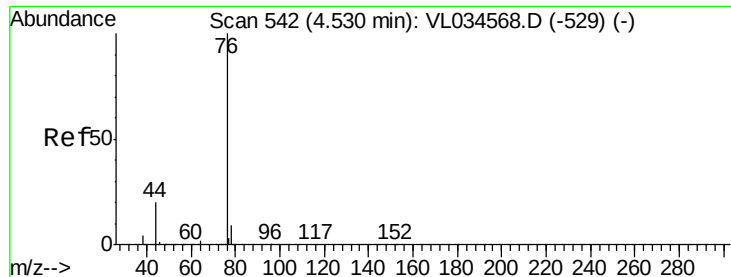
MMDadoda
2/21/2020 3:24:37 PM



#26
Hexane
Concen: 11.502 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	96.1	76.2	114.2	
43	234.9	189.9	284.9	
56	53.4	43.6	65.4	





#27

Carbon Disulfide

Concen: 13.591 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Tot Ion: 76 Resp: 1567913

Ion Ratio Lower Upper

76 100

44 20.3 16.3 24.5

78 9.9 7.4 11.2

Instrument :

MSVOA_L

ClientSampleId :

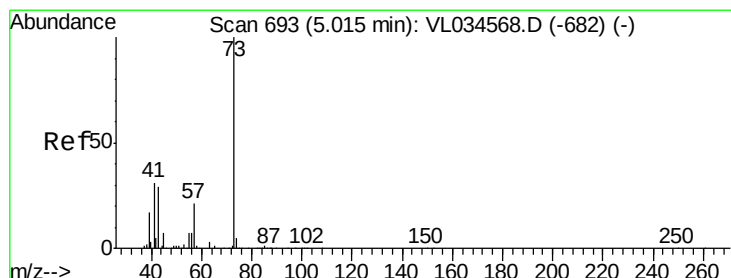
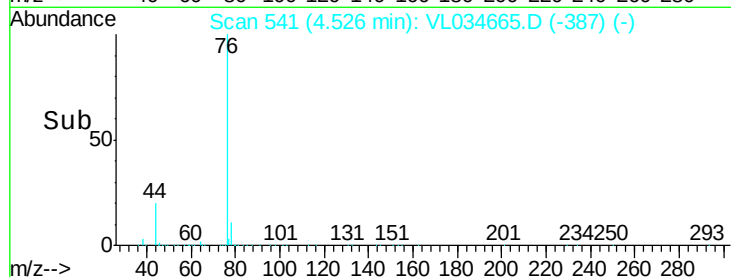
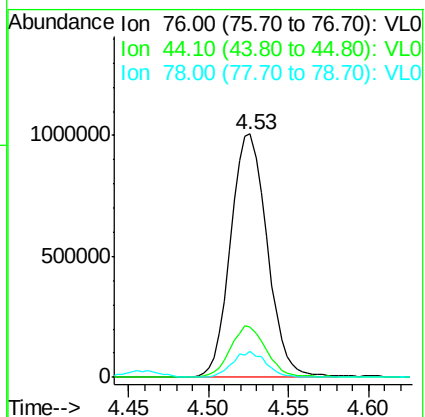
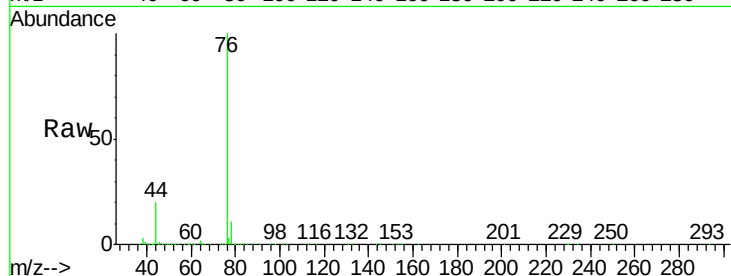
VSTDCCC010EC

Manual Integrations

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MMDadoda

2/21/2020 3:24:37 PM



#28

Methyl tert-Butyl Ether

Concen: 11.681 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL034665.D

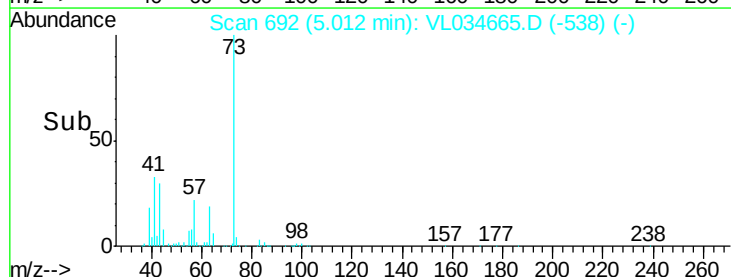
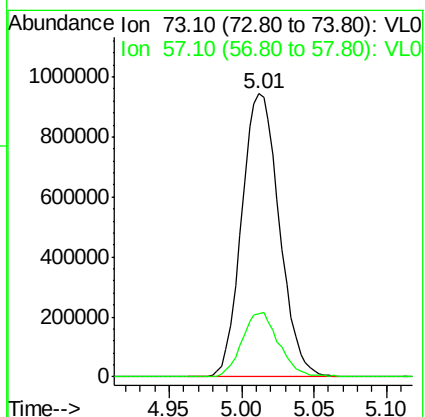
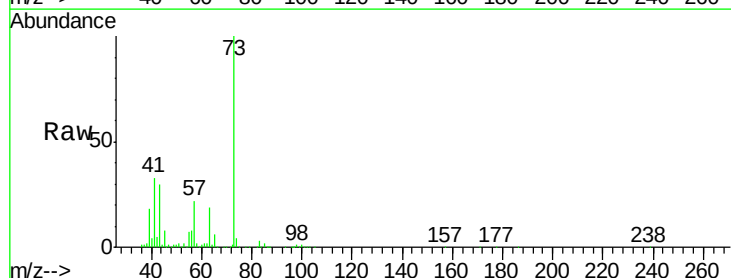
Acq: 20 Feb 2020 9:49

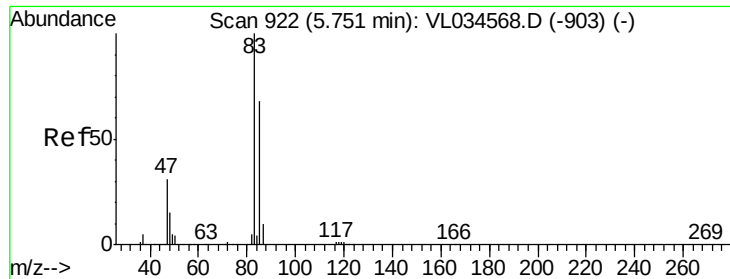
Tgt Ion: 73 Resp: 1703257

Ion Ratio Lower Upper

73 100

57 22.3 17.9 26.9





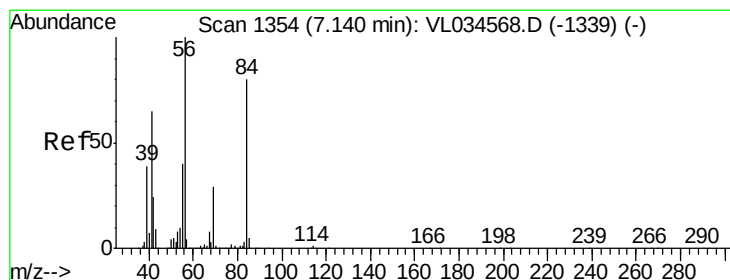
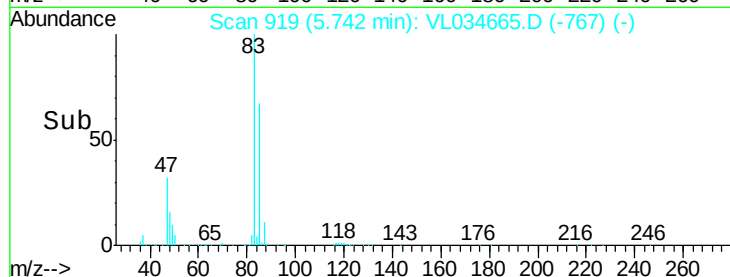
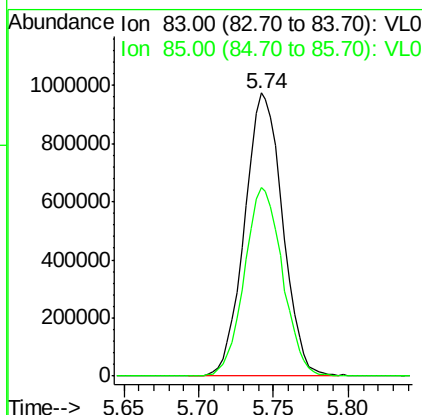
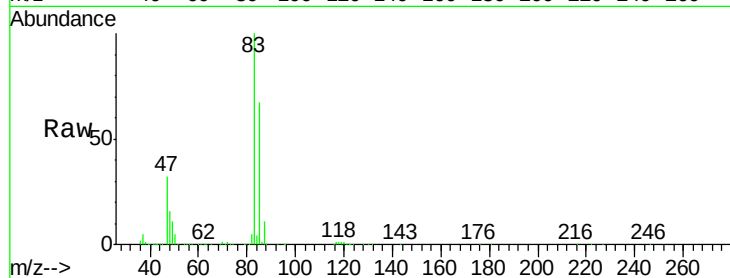
#29
Chloroform
Concen: 11.395 ppbv
RT: 5.74 min Scan# 919
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1722718
Ion Ratio Lower Upper
83 100
85 66.4 54.0 81.0

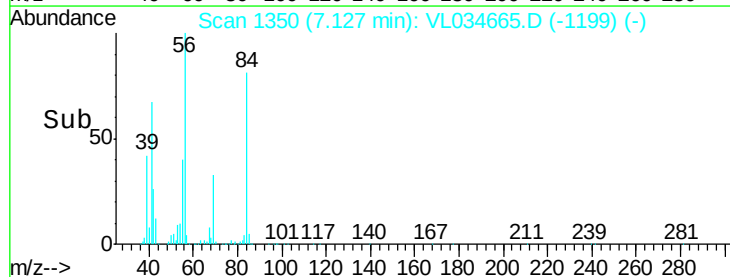
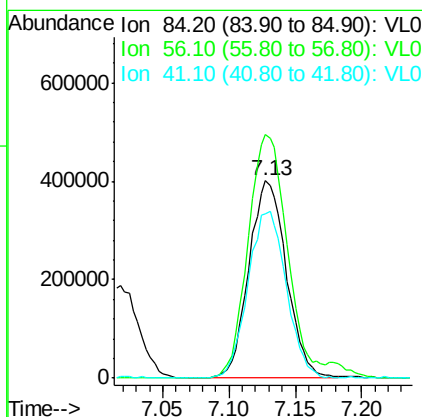
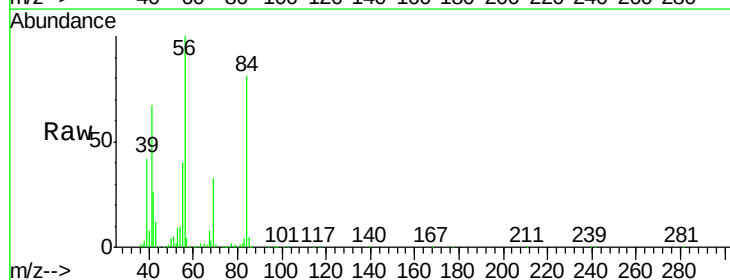
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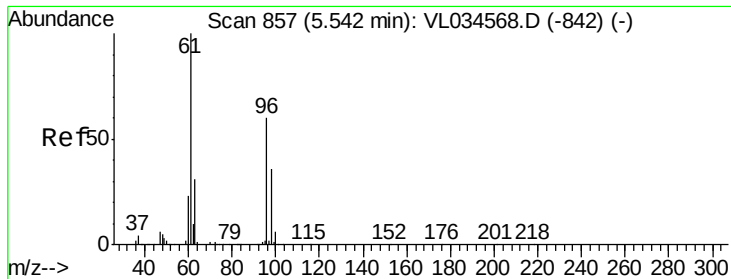
MMDadoda
2/21/2020 3:24:37 PM



#30
Cyclohexane
Concen: 12.451 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 84 Resp: 788828
Ion Ratio Lower Upper
84 100
56 133.3 110.5 165.7
41 86.5 71.9 107.9





#31

cis-1,2-Dichloroethene

Concen: 11.869 ppbv

RT: 5.54 min Scan# 856

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 61 Resp: 1054306

Ion Ratio Lower Upper

61 100

96 56.9 48.0 72.0

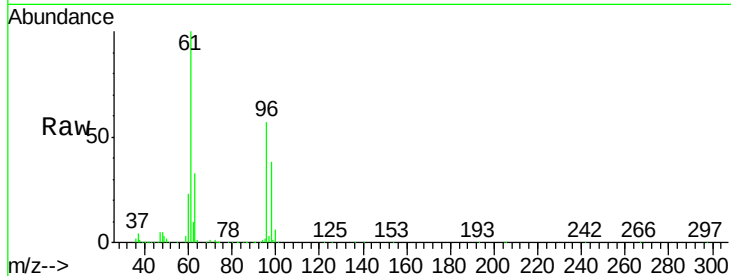
98 37.8 28.6 43.0

Manual Integrations

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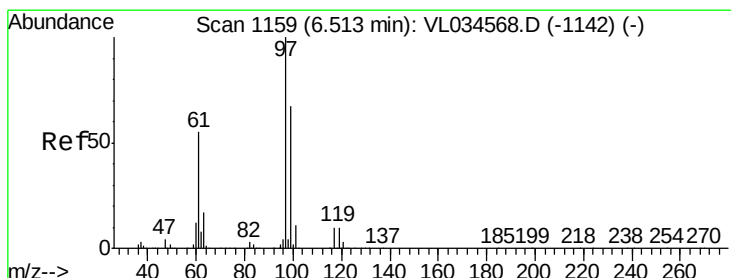
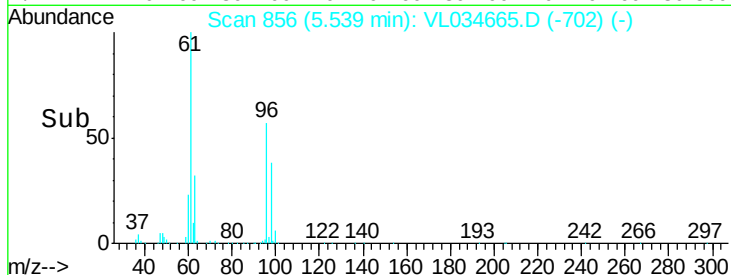
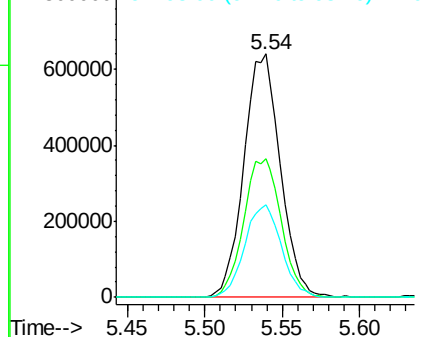
2/21/2020 3:24:37 PM



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 11.129 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

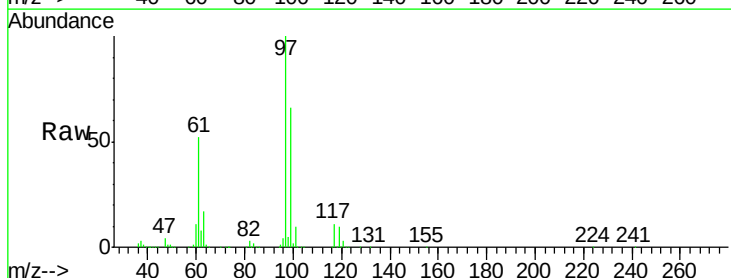
Tgt Ion: 97 Resp: 1806602

Ion Ratio Lower Upper

97 100

99 64.9 52.2 78.2

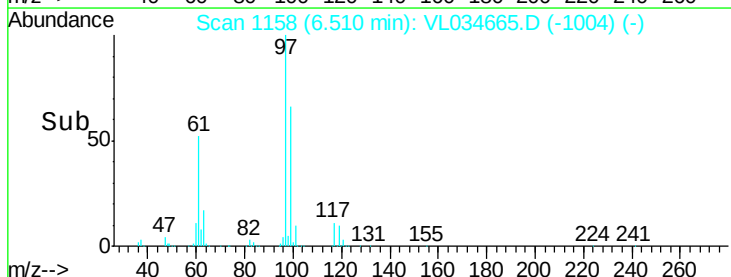
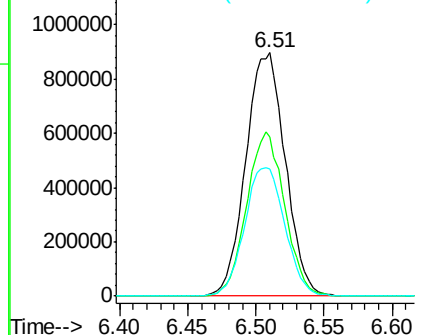
61 53.9 43.0 64.4

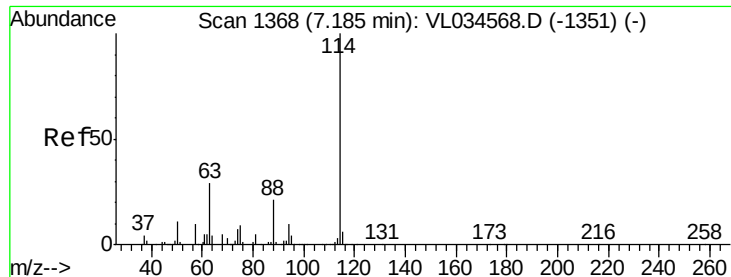


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





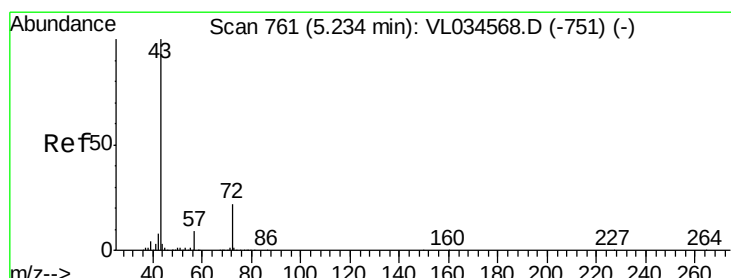
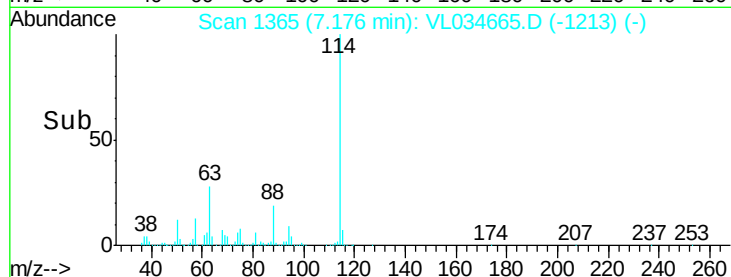
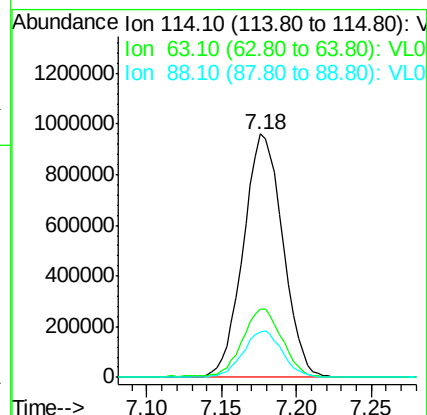
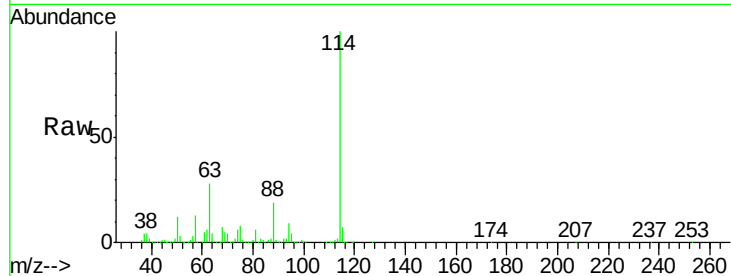
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 1771399
 Ion Ratio Lower Upper
 114 100
 63 29.1 24.1 36.1
 88 18.8 15.9 23.9

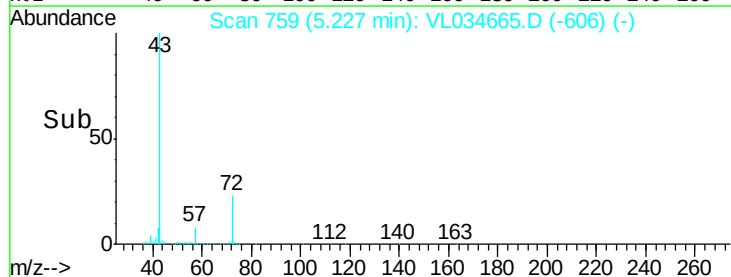
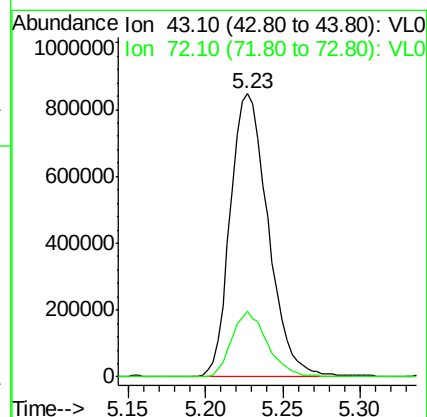
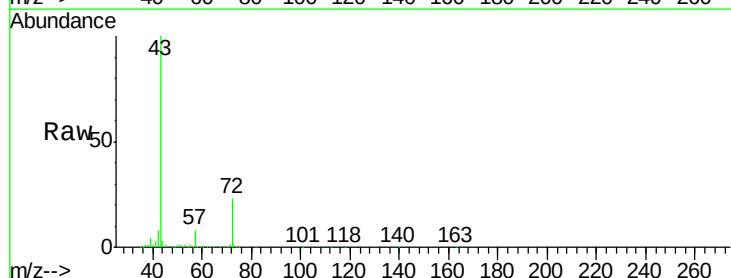
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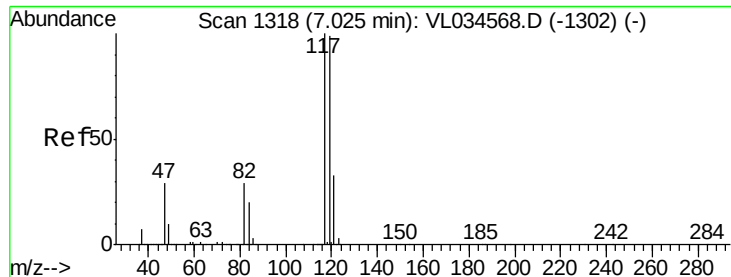
MMDadoda
 2/21/2020 3:24:37 PM



#34
 2-Butanone
 Concen: 11.083 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Tgt Ion: 43 Resp: 1425474
 Ion Ratio Lower Upper
 43 100
 72 22.0 17.2 25.8





#35

Carbon Tetrachloride

Concen: 11.793 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

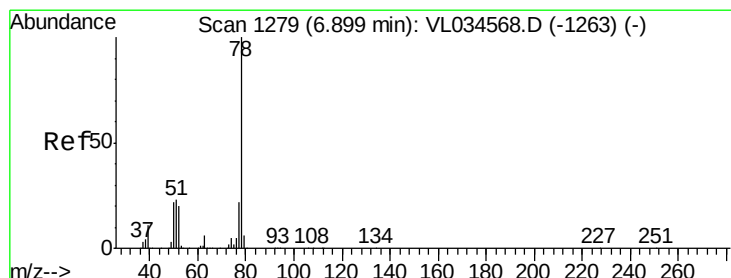
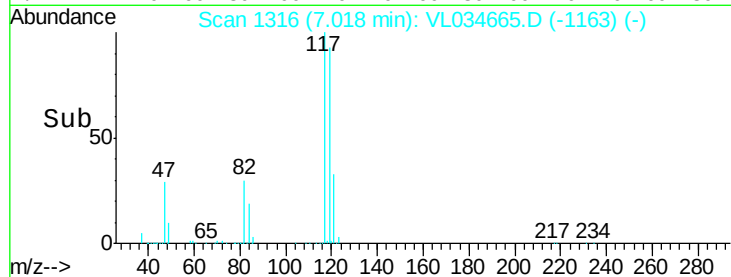
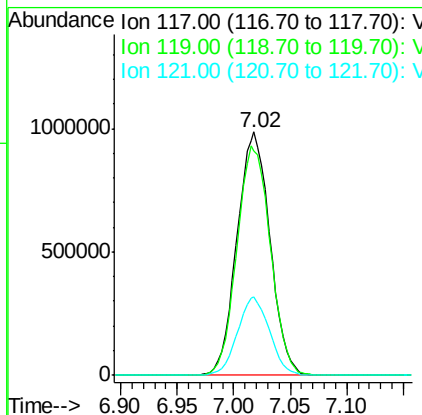
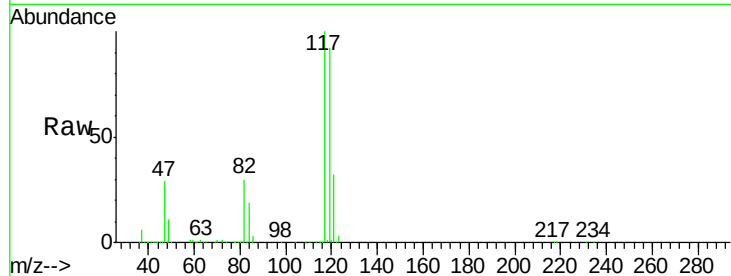
ClientSampleId :

VSTDCCC010EC

Tot Ion:	117	Resp:	1997191
Ion	Ratio	Lower	Upper
117	100		
119	92.4	79.5	119.3
121	32.4	26.2	39.2

Manual Integrations
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#36

Benzene

Concen: 11.836 ppbv

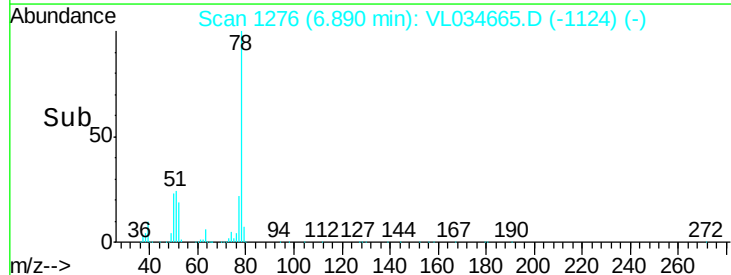
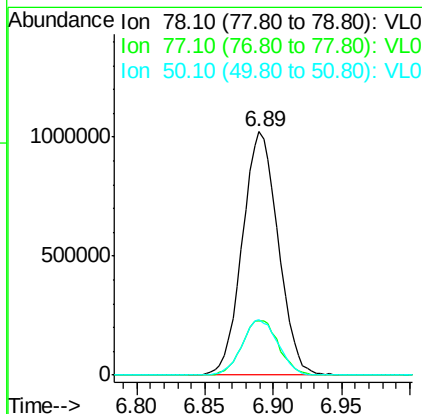
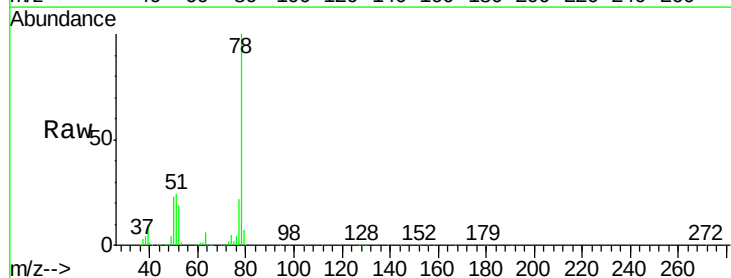
RT: 6.89 min Scan# 1276

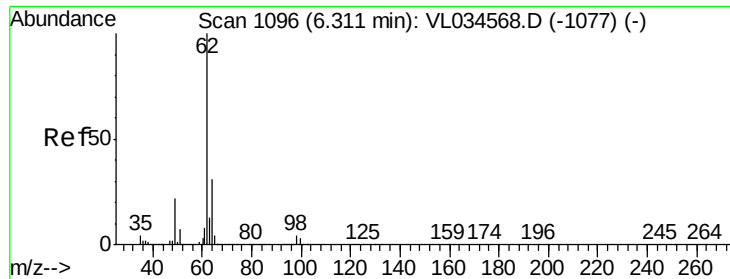
Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Tgt Ion:	78	Resp:	1864489
Ion	Ratio	Lower	Upper
78	100		
77	22.4	17.3	25.9
50	22.8	17.4	26.2





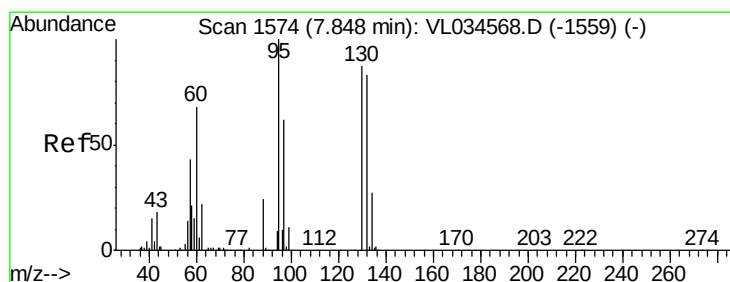
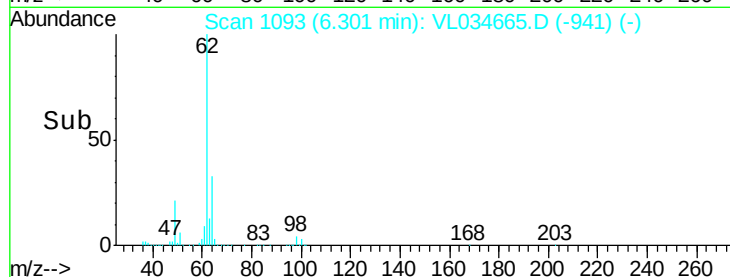
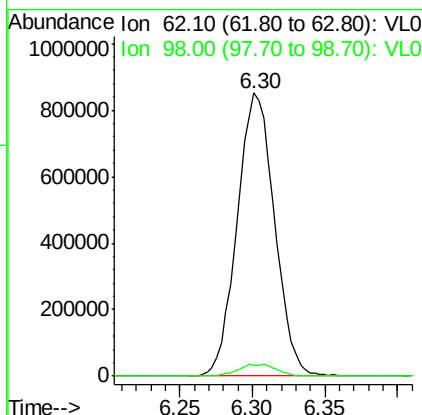
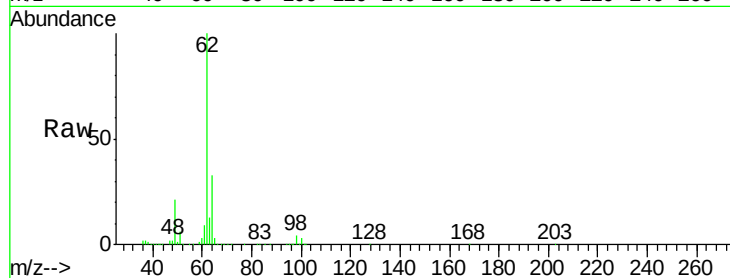
#37
1,2-Dichloroethane
Concen: 11.627 ppbv
RT: 6.30 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1528104
Ion Ratio Lower Upper
62 100
98 4.3 3.7 5.5

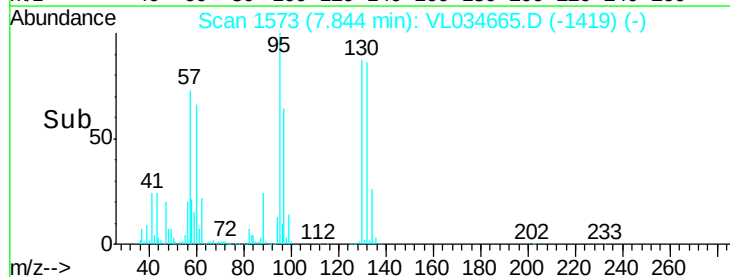
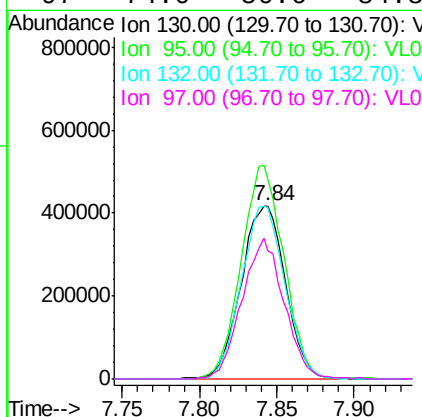
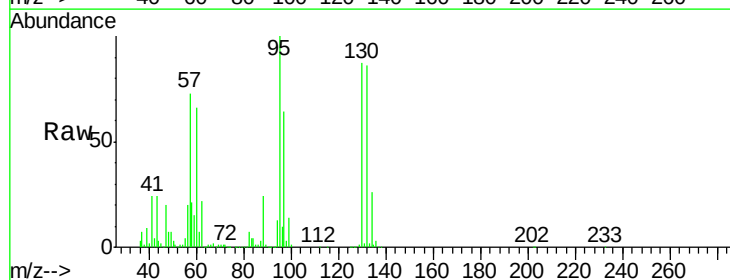
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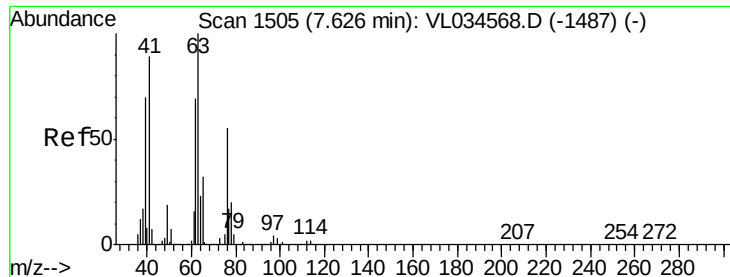
MMDadoda
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#38
Trichloroethene
Concen: 12.412 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 130 Resp: 824165
Ion Ratio Lower Upper
130 100
95 115.6 91.6 137.4
132 99.3 76.1 114.1
97 74.0 56.6 84.8





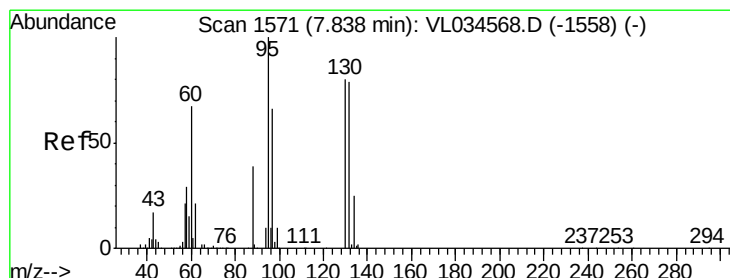
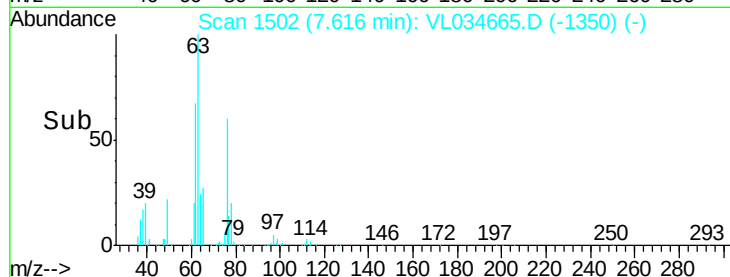
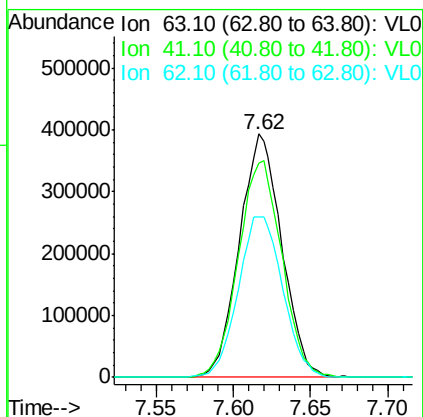
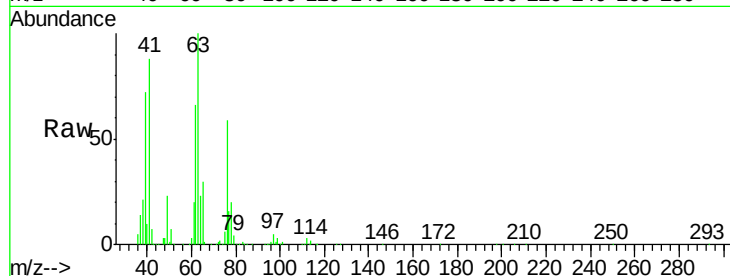
#39
 1,2-Dichloropropane
 Concen: 11.417 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	87.8	71.0	106.4
62	66.1	55.4	83.0

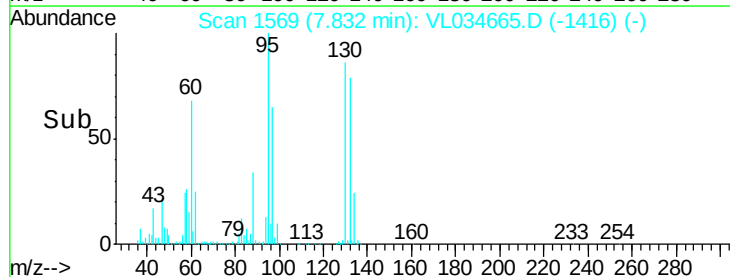
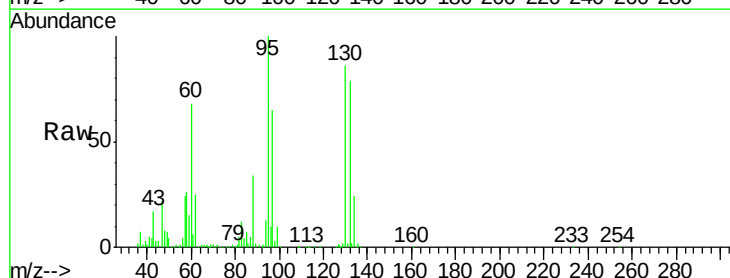
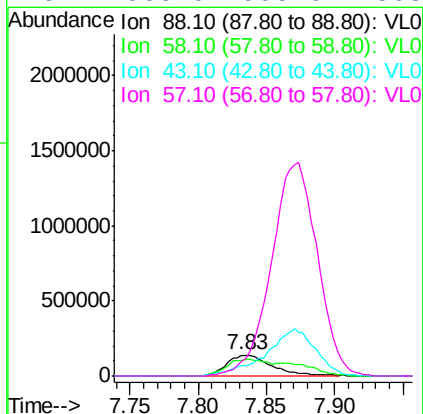
Manual Integrations
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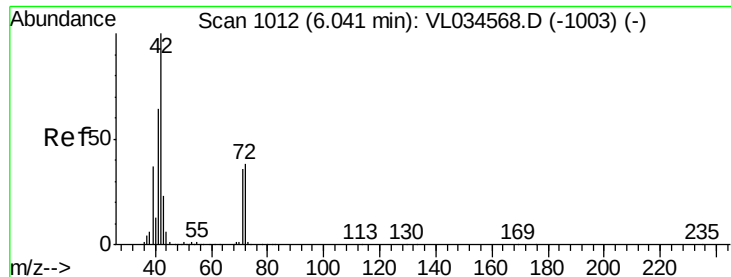
MMDadoda
 2/21/2020 3:24:37 PM



#40
 1,4-Dioxane
 Concen: 12.517 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Tgt Ion	Ratio	Lower	Upper
88	100		
58	128.5	107.8	161.8
43	253.0	220.9	331.3
57	1063.9	908.6	1363.0





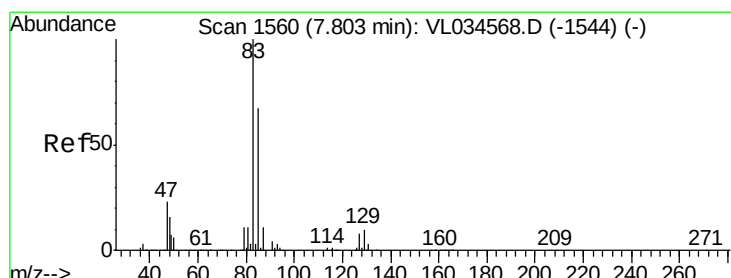
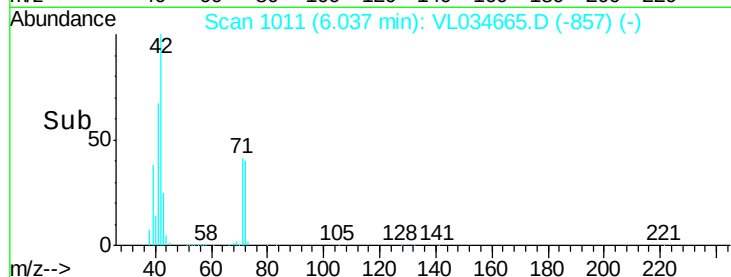
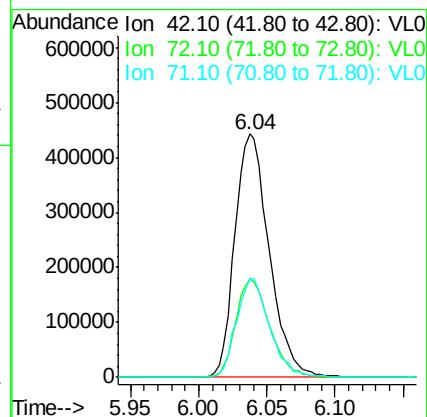
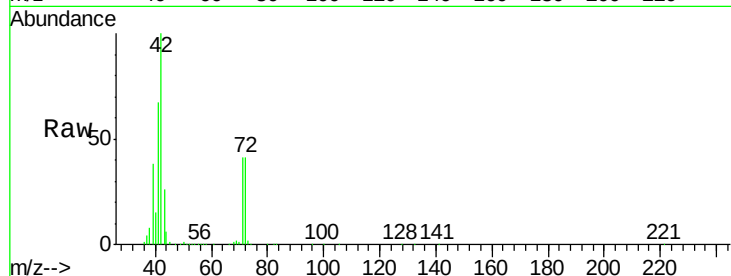
#41
Tetrahydrofuran
Concen: 11.535 ppbv
RT: 6.04 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.8	47.8
71	39.5	30.2	45.4

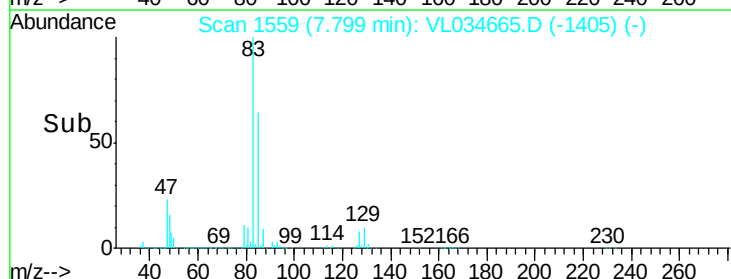
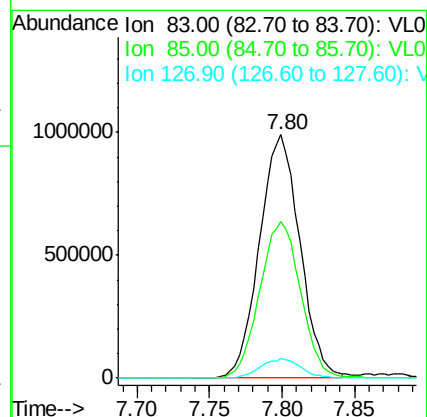
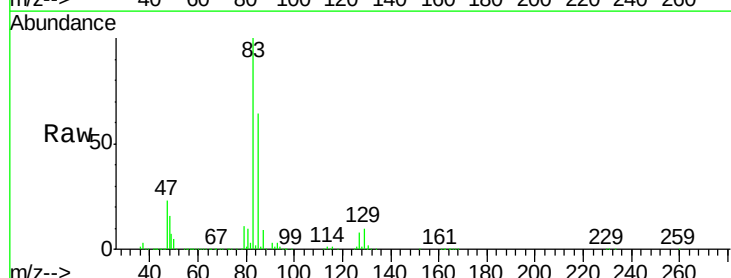
Manual Integrations
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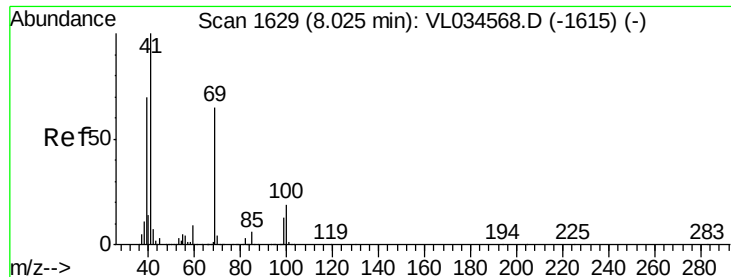
MMDadoda
2/21/2020 3:24:37 PM



#42
Bromodichloromethane
Concen: 11.866 ppbv
RT: 7.80 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.2	79.8
127	8.3	6.5	9.7





#43

Methyl Methacrylate

Concen: 12.541 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

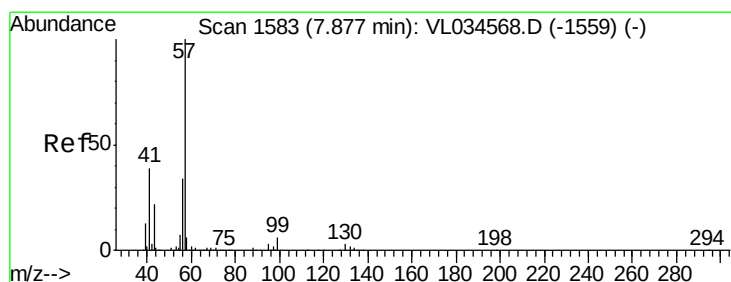
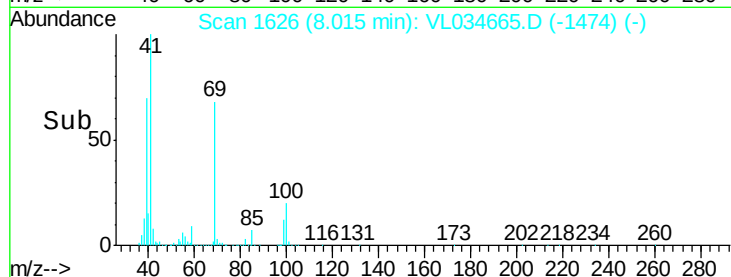
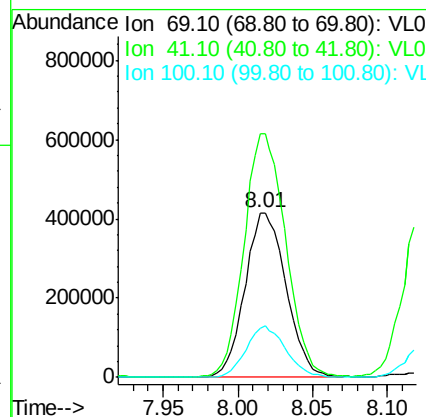
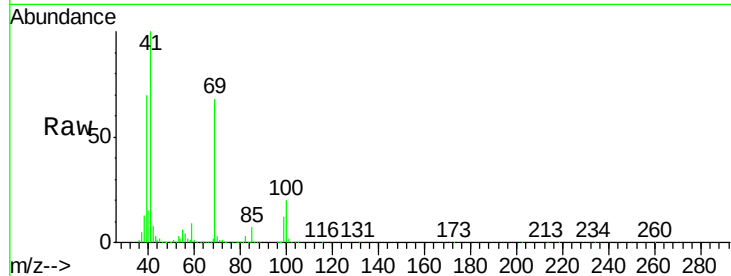
Instrument :
MSVOA_L

ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	149.8	123.9	185.9	
100	30.1	24.1	36.1	

Manual Integrations
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2/21/2020 3:24:37 PM



#44

2,2,4-Trimethylpentane

Concen: 11.684 ppbv

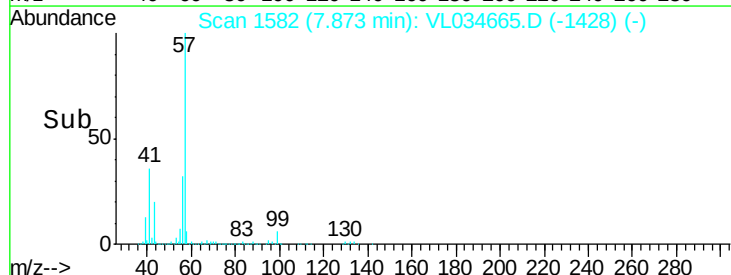
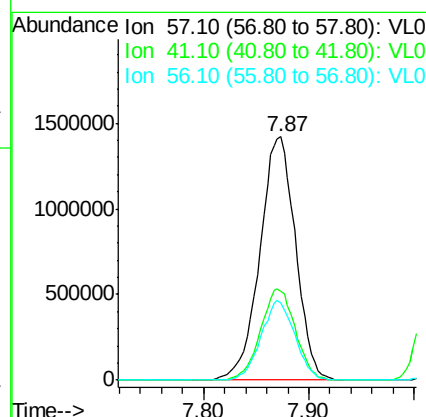
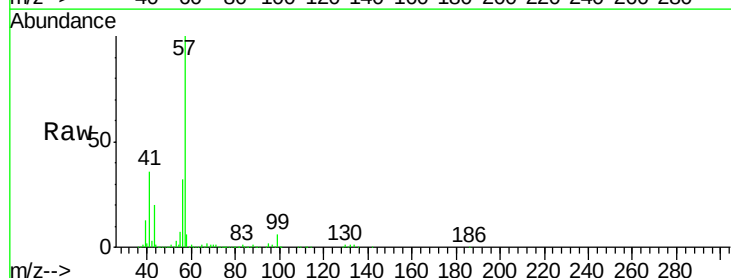
RT: 7.87 min Scan# 1582

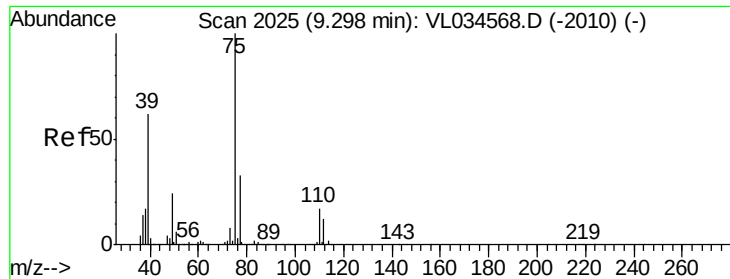
Delta R.T. -0.00 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.6	28.9	43.3	
56	31.0	25.5	38.3	





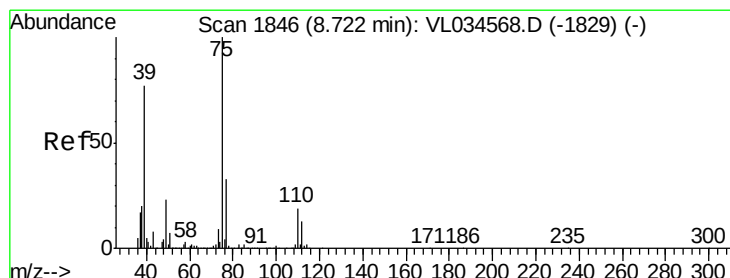
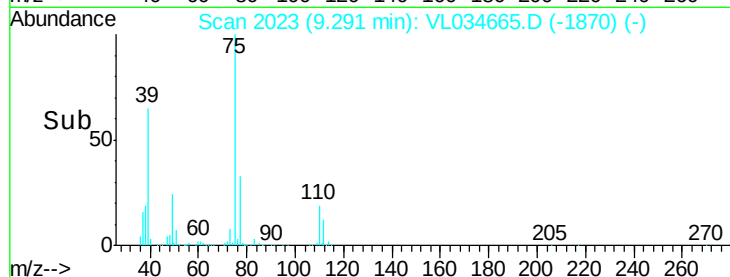
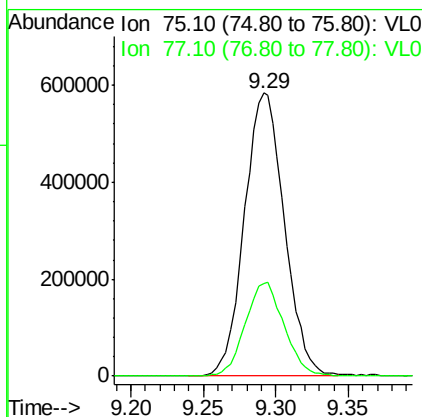
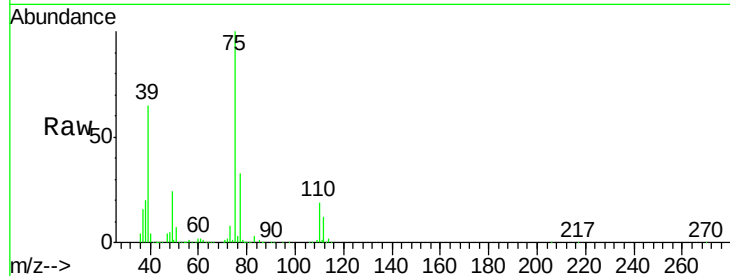
#45
 t-1,3-Dichloropropene
 Concen: 13.498 ppbv
 RT: 9.29 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 75 Resp: 1119879
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.7 40.1

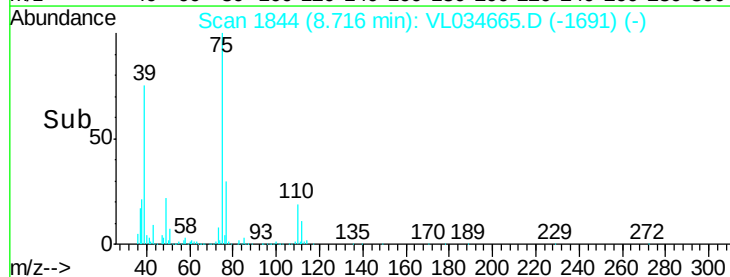
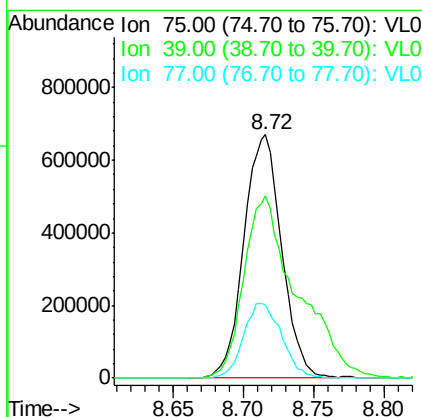
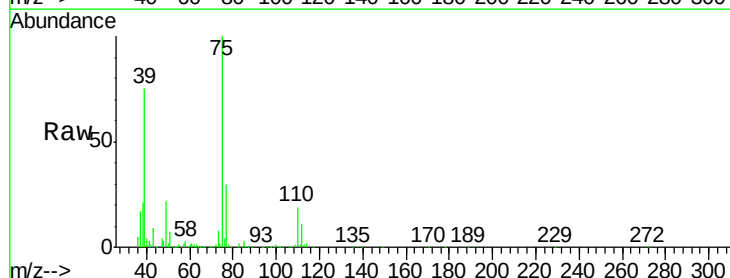
Manual Integrations
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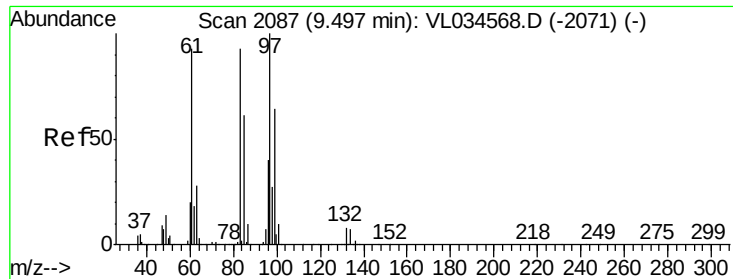
MMDadoda
 2/21/2020 3:24:37 PM



#46
 cis-1,3-Dichloropropene
 Concen: 13.349 ppbv
 RT: 8.72 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Tgt Ion: 75 Resp: 1258734
 Ion Ratio Lower Upper
 75 100
 39 74.7 61.9 92.9
 77 30.4 26.1 39.1





#47

1,1,2-Trichloroethane

Concen: 11.767 ppbv

RT: 9.49 min Scan# 2085

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

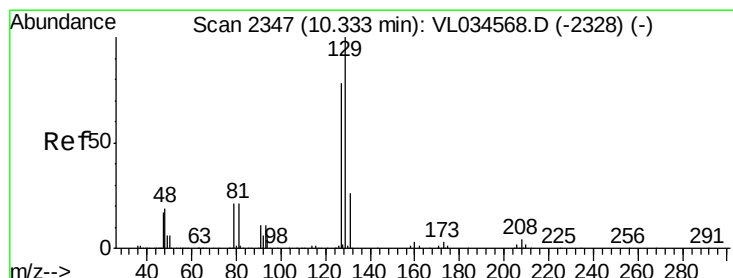
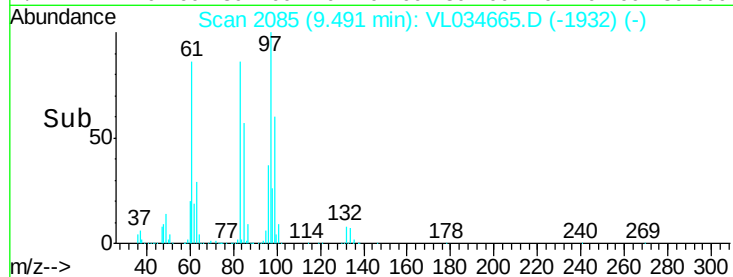
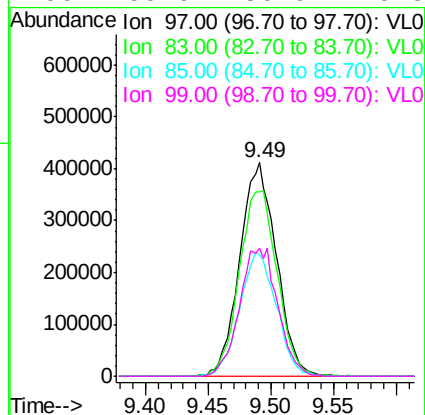
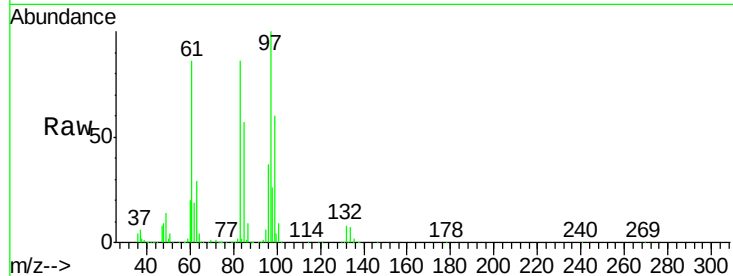
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.3	74.4	111.6	
85	56.7	49.2	73.8	
99	59.9	50.9	76.3	

Manual Integrations
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#48

Dibromochloromethane

Concen: 12.475 ppbv

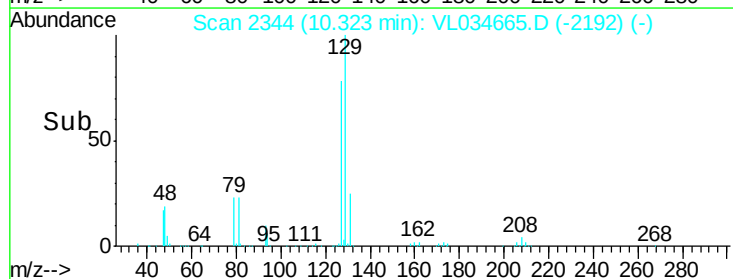
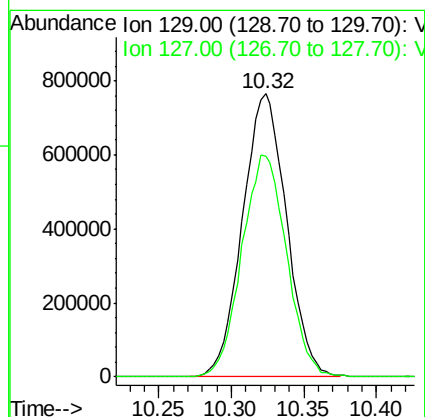
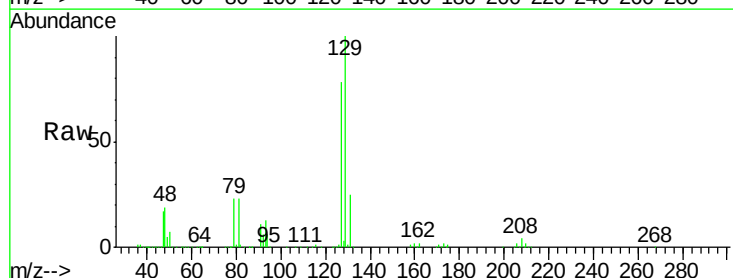
RT: 10.32 min Scan# 2344

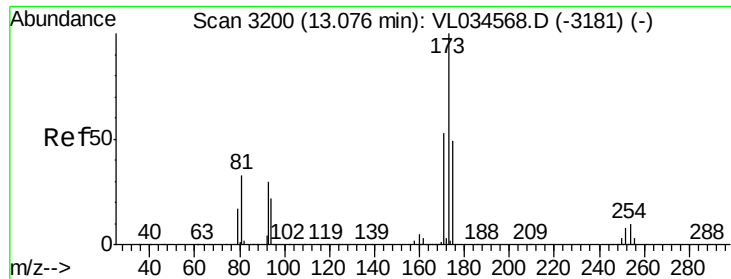
Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.3	39.1	117.2	





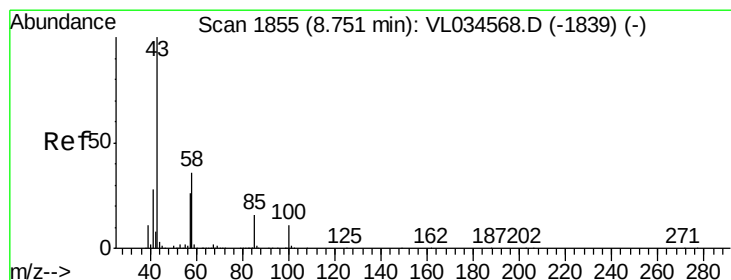
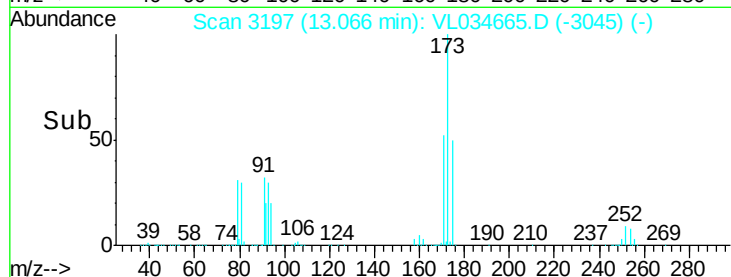
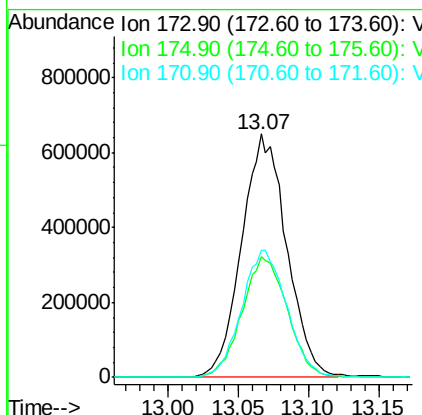
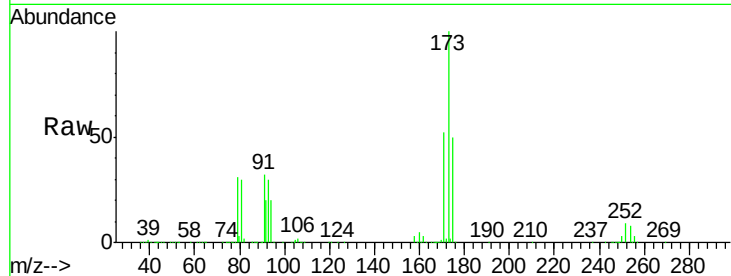
#49
Bromoform
Concen: 12.704 ppbv
RT: 13.07 min Scan# 3197
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1445592
Ion Ratio Lower Upper
173 100
175 50.0 39.7 59.5
171 52.8 41.6 62.4

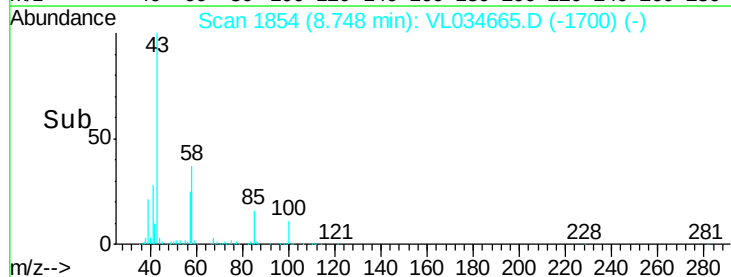
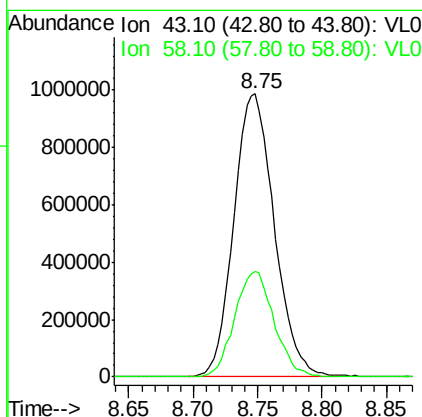
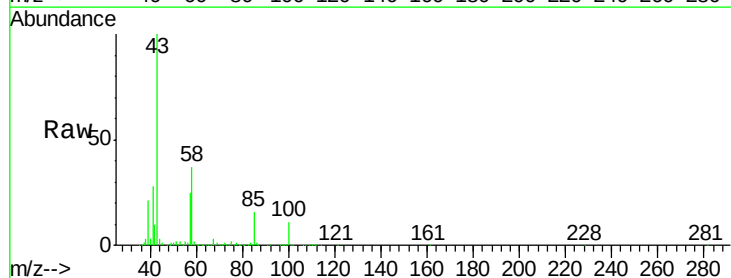
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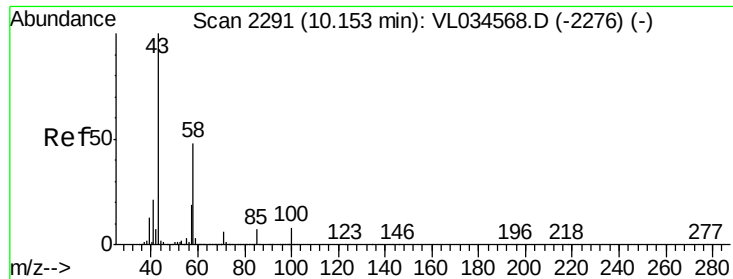
MMDadoda
2/21/2020 3:24:37 PM



#50
4-Methyl-2-Pentanone
Concen: 11.713 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 43 Resp: 2148334
Ion Ratio Lower Upper
43 100
58 36.4 28.6 43.0





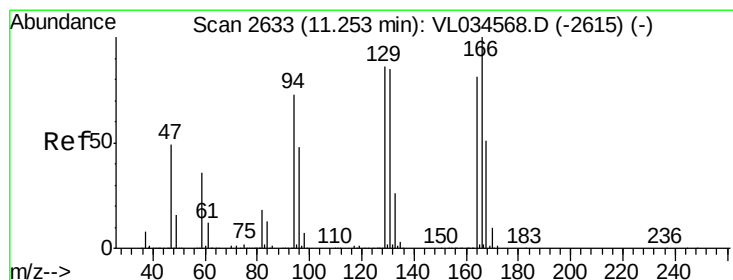
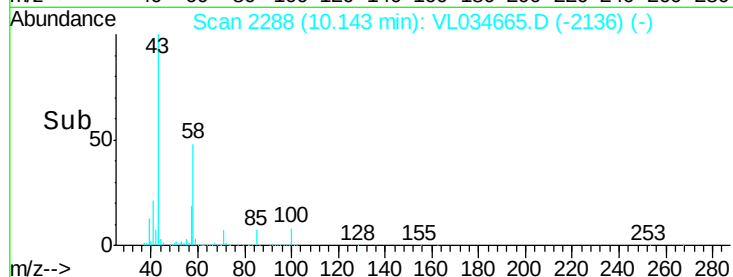
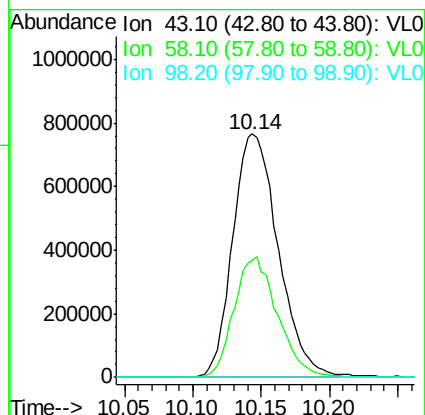
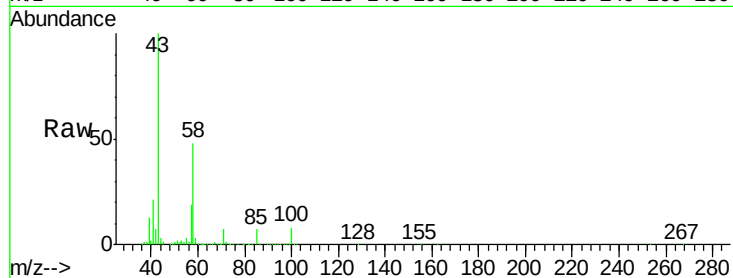
#51
2-Hexanone
Concen: 12.208 ppbv
RT: 10.14 min Scan# 2288
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1762708
Ion Ratio Lower Upper
43 100
58 47.5 37.9 56.9
98 0.2 0.3 0.5#

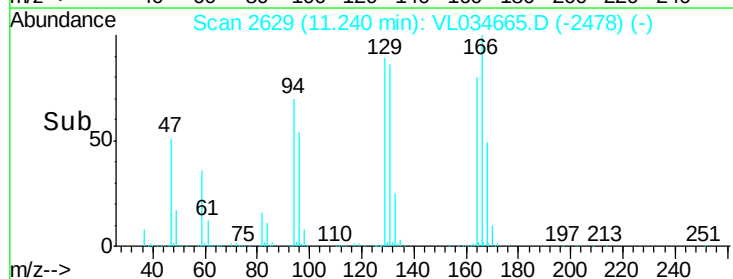
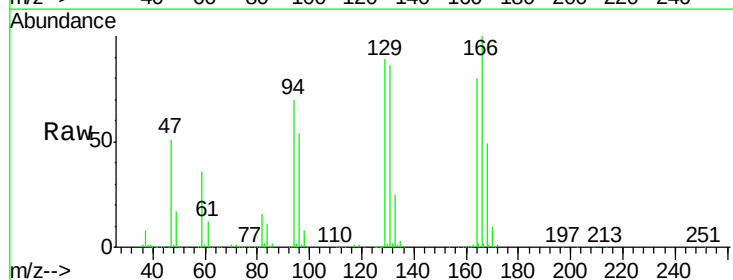
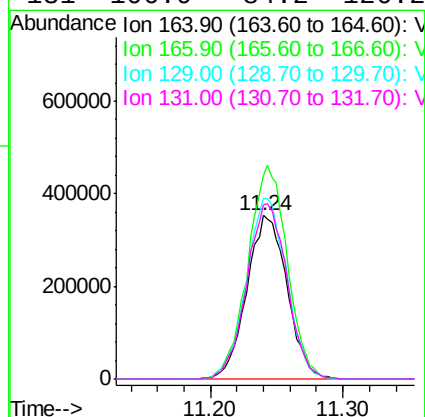
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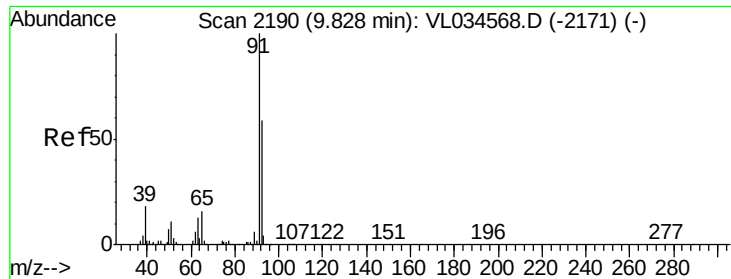
MMDadoda
2/21/2020 3:24:37 PM



#52
Tetrachloroethene
Concen: 11.774 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 164 Resp: 745107
Ion Ratio Lower Upper
164 100
166 124.9 99.0 148.4
129 110.7 85.3 127.9
131 106.9 84.2 126.2





#53

Toluene

Concen: 12.681 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2194462

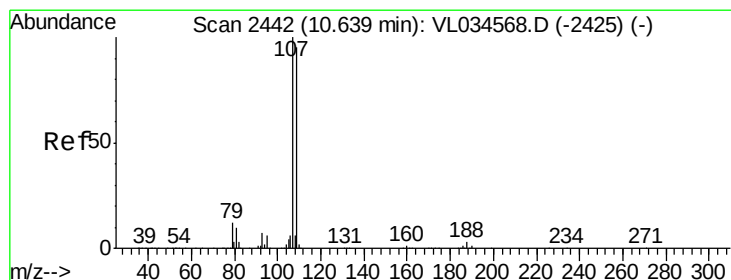
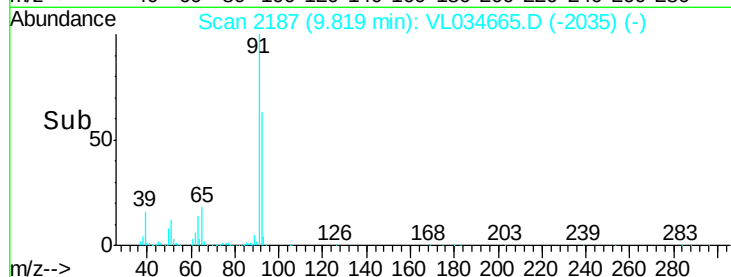
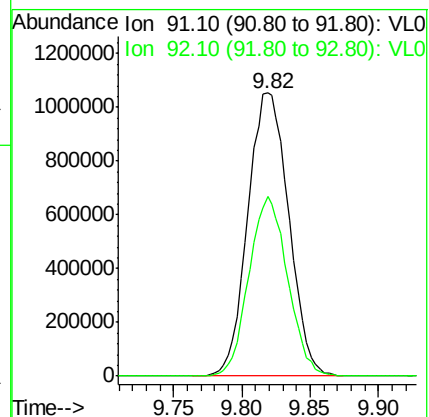
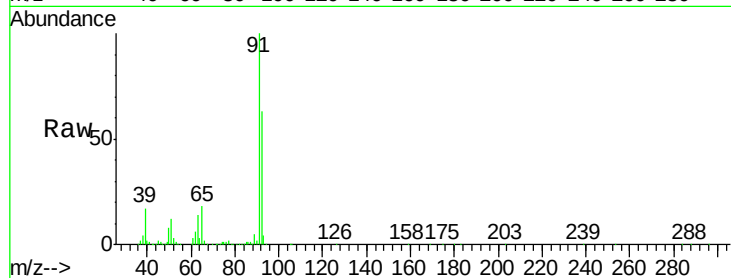
Ion Ratio Lower Upper

91 100

92 60.1 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 11.868 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL034665.D

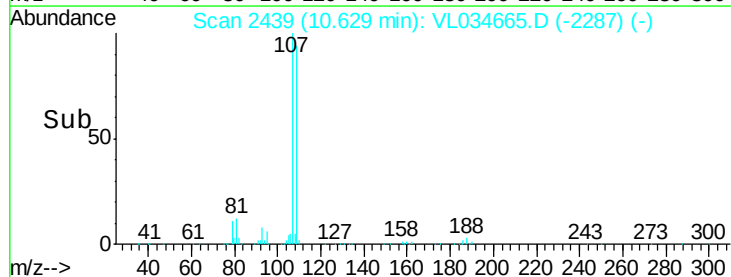
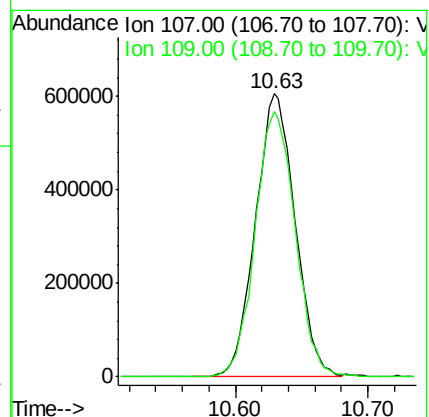
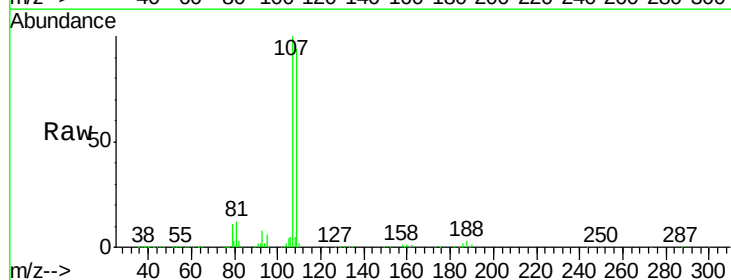
Acq: 20 Feb 2020 9:49

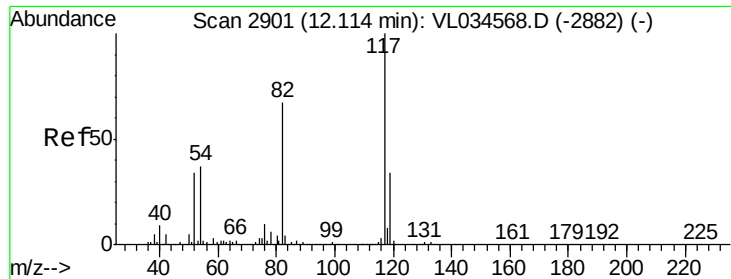
Tgt Ion: 107 Resp: 1257953

Ion Ratio Lower Upper

107 100

109 93.6 75.9 113.9





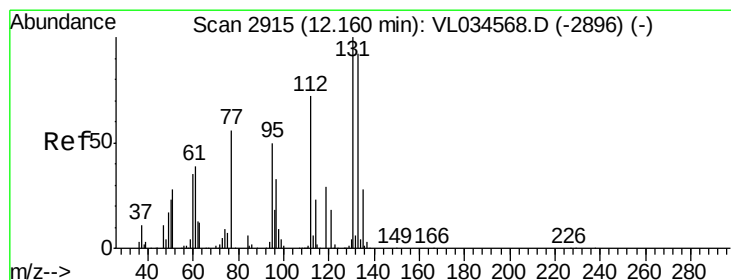
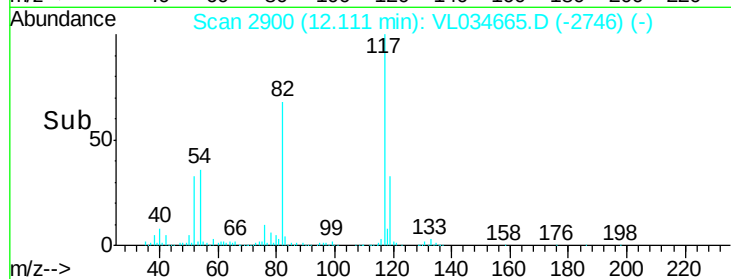
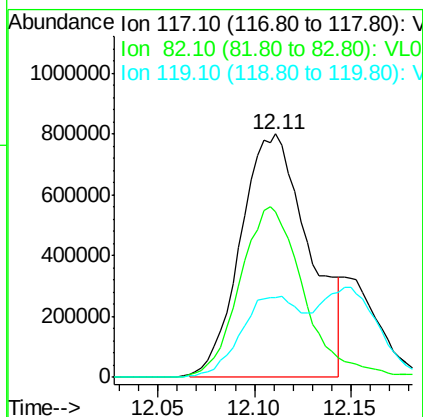
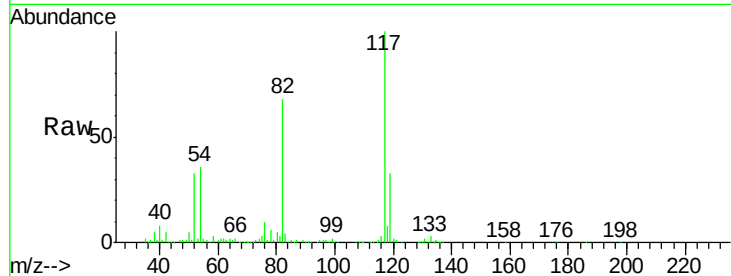
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1982361
Ion Ratio Lower Upper
117 100
82 65.6 54.2 81.4
119 31.3 26.1 39.1

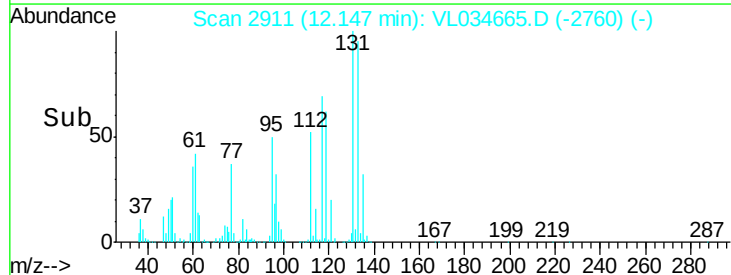
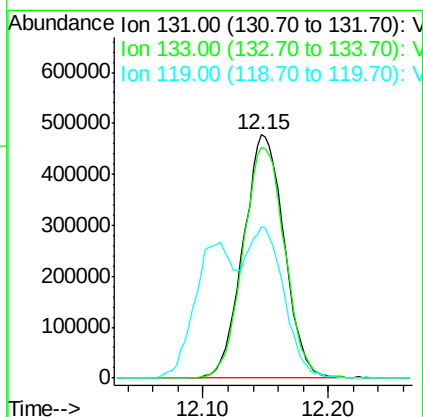
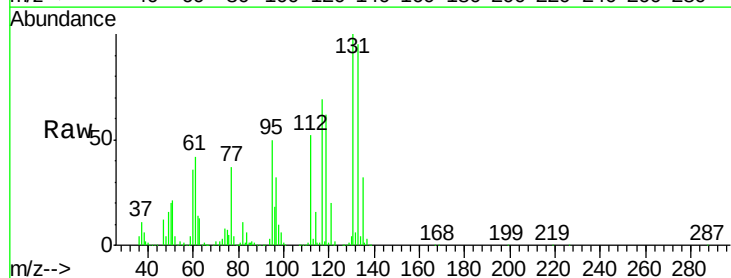
Manual Integrations
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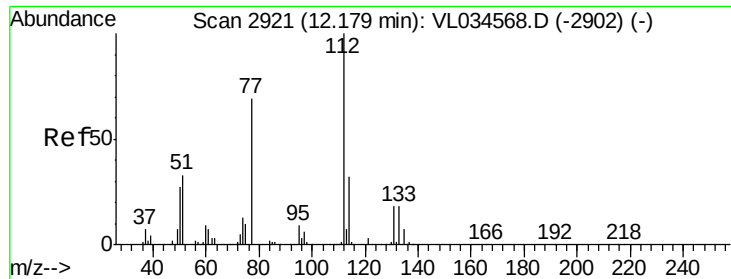
MMDadoda
2/21/2020 3:24:37 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 11.061 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion:131 Resp: 1082567
Ion Ratio Lower Upper
131 100
133 96.8 75.8 113.8
119 55.1 47.0 70.6





#57

Chlorobenzene

Concen: 10.982 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1791448

Ion Ratio Lower Upper

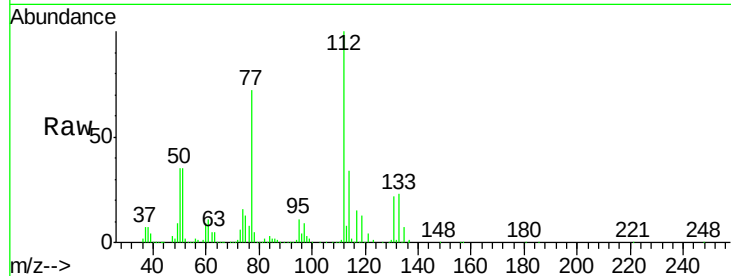
112 100

77 72.0 56.5 84.7

114 34.1 29.2 35.6

Manual Integrations
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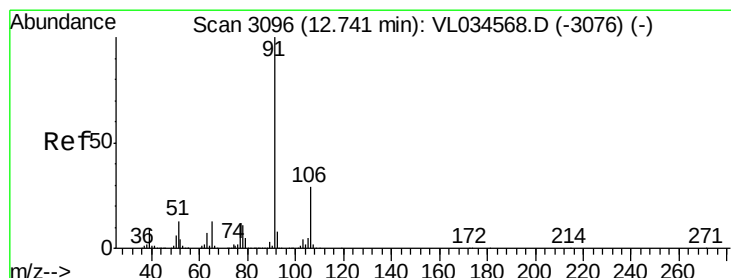
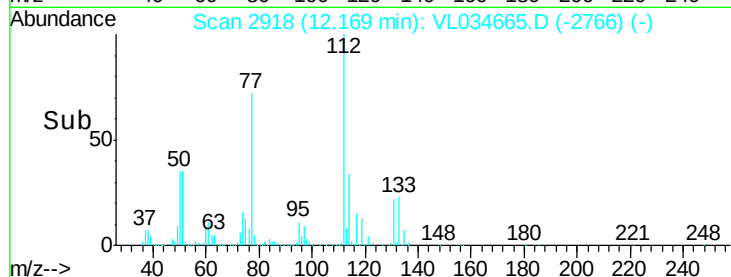
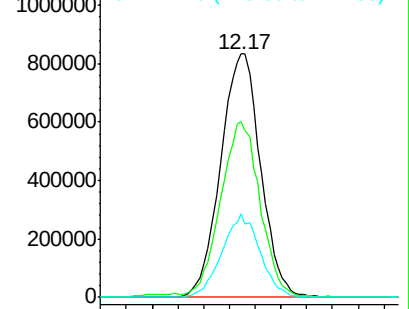
MMDadoda
2/21/2020 3:24:37 PM



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: 11.570 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL034665.D

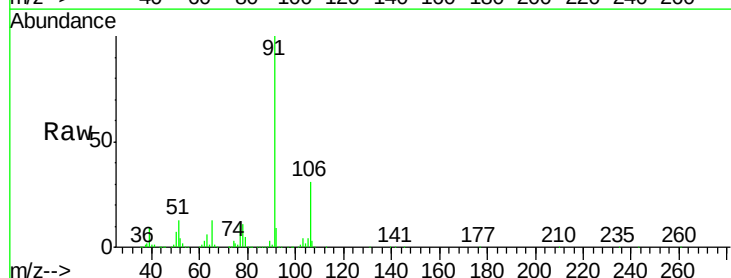
Acq: 20 Feb 2020 9:49

Tgt Ion: 91 Resp: 3069110

Ion Ratio Lower Upper

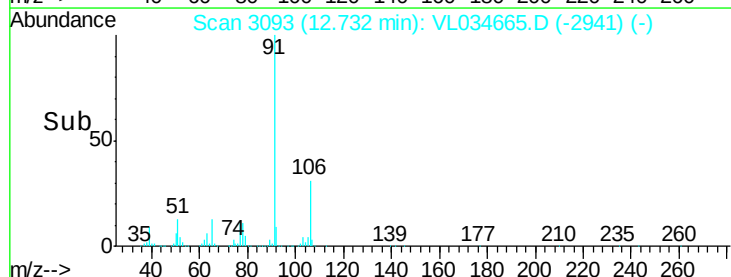
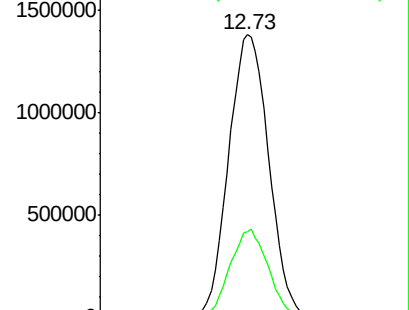
91 100

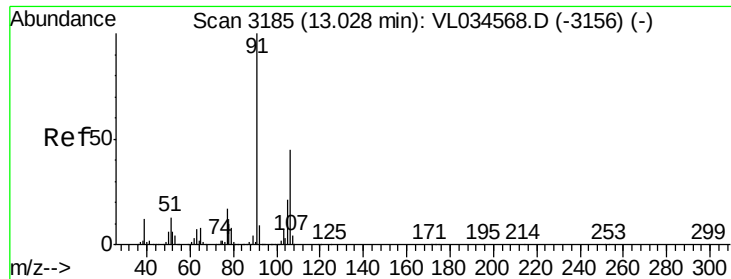
106 30.5 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





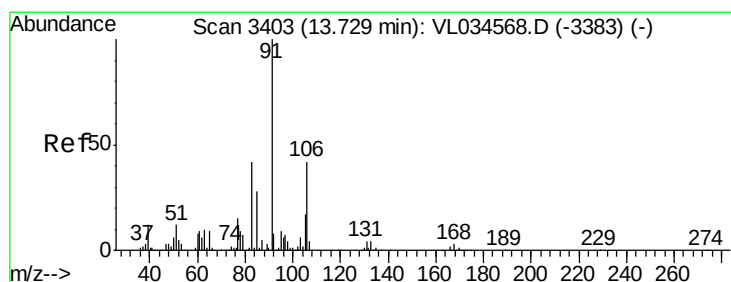
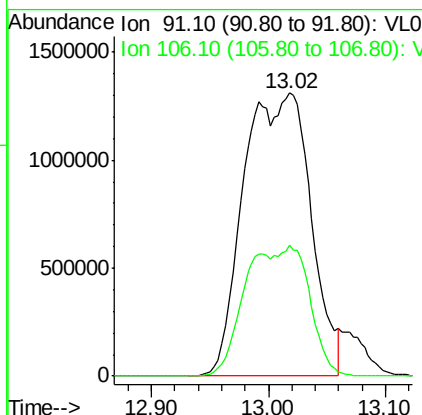
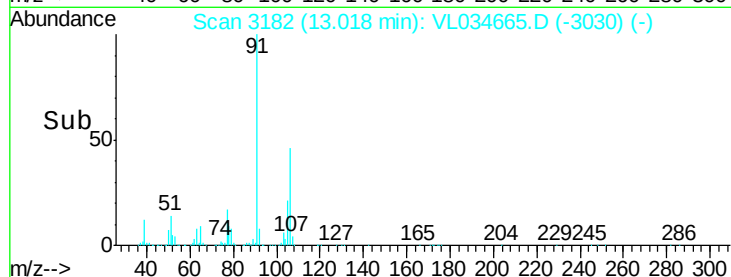
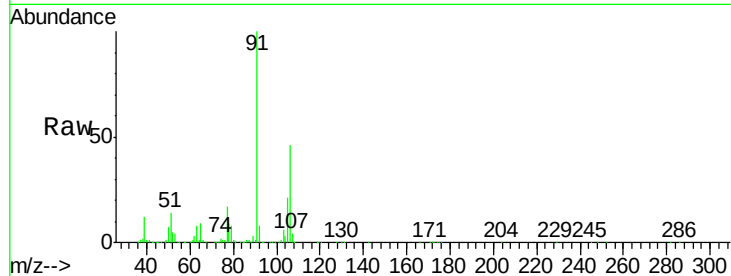
#59
m/p-Xylene
Concen: 22.332 ppbv m
RT: 13.02 min Scan# 3182
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5236584
Ion Ratio Lower Upper
91 100
106 44.2 35.3 52.9

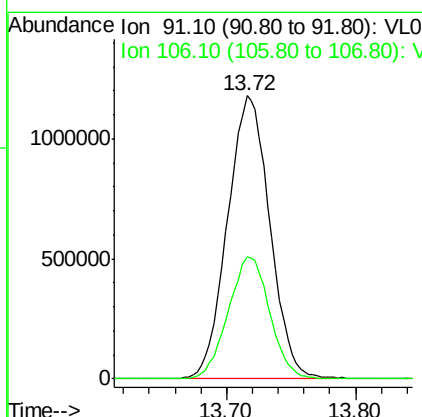
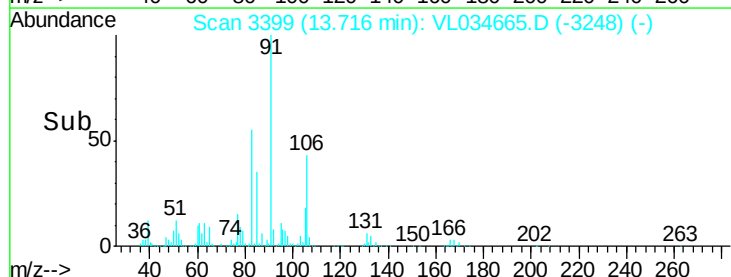
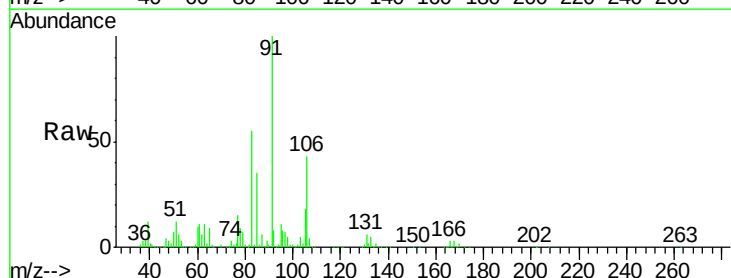
Manual Integrations
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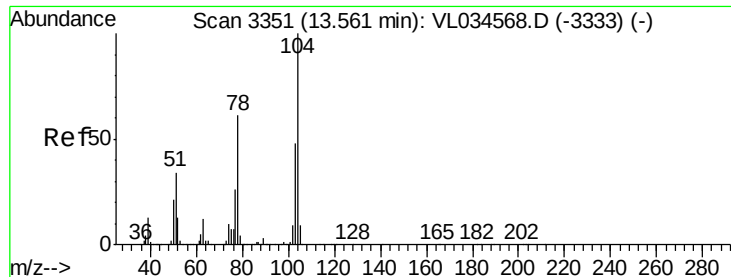
MMDadoda
2/21/2020 3:24:37 PM



#60
o-Xylene
Concen: 11.274 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 91 Resp: 2655121
Ion Ratio Lower Upper
91 100
106 42.9 21.6 65.0





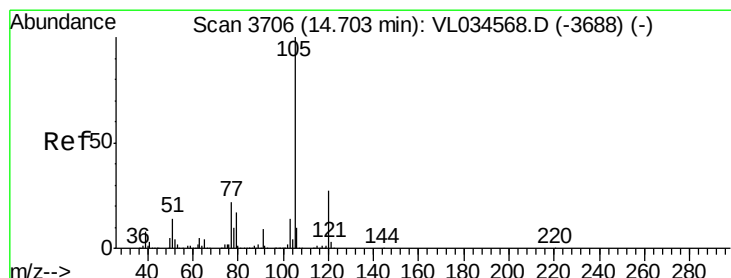
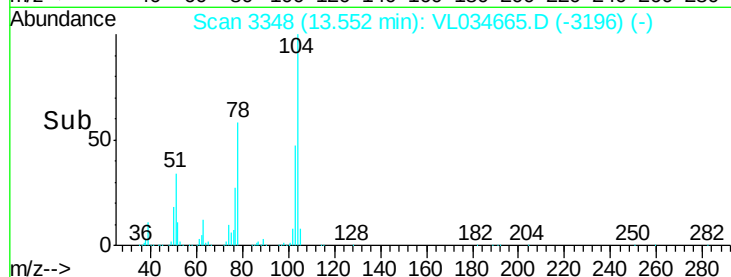
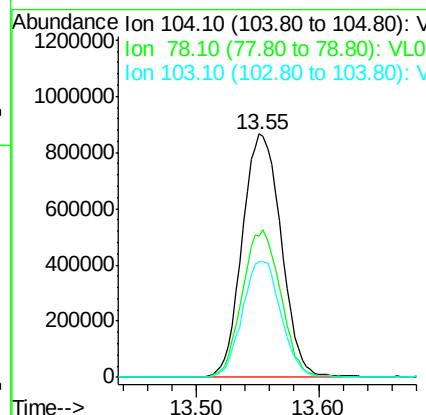
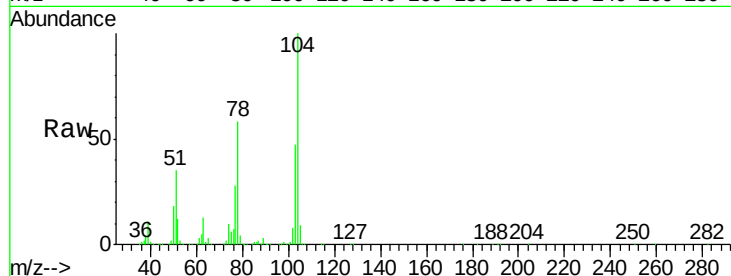
#61
Stvrene
Concen: 12.142 ppbv
RT: 13.55 min Scan# 3348
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.9	47.0	70.6
103	47.5	38.5	57.7

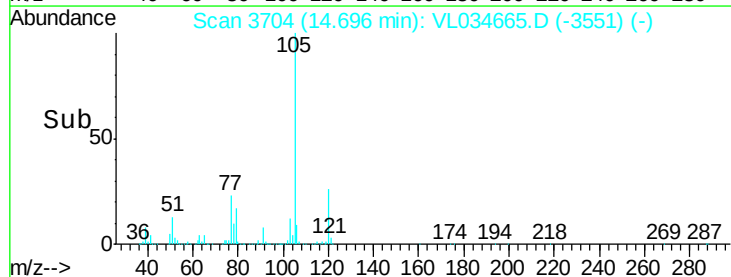
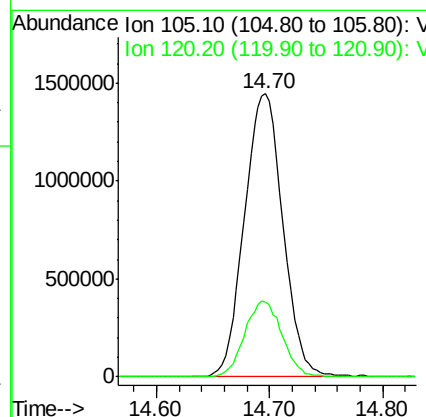
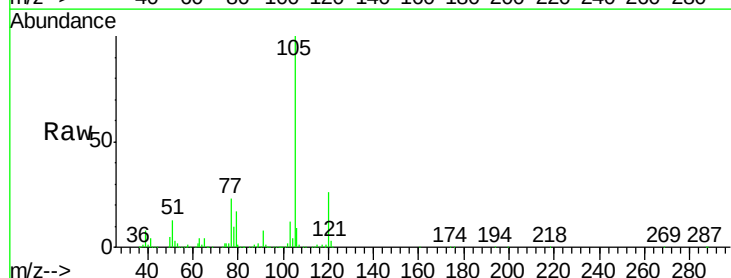
Manual Integrations
APPROVED

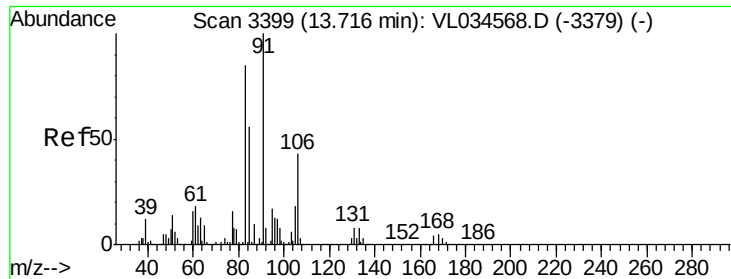
MMDadoda
2/21/2020 3:24:37 PM



#62
Isopropylbenzene
Concen: 11.210 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 10.124 ppbv

RT: 13.71 min Scan# 3396

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1843942

Ion Ratio Lower Upper

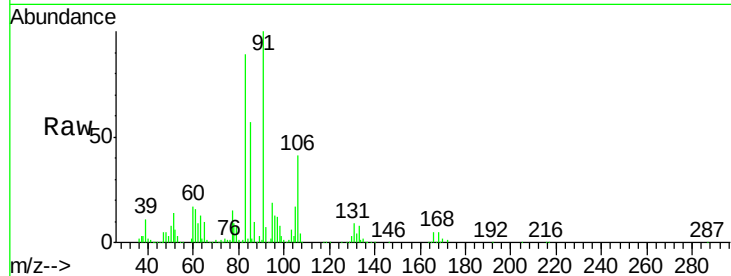
83 100

131 10.0 4.9 14.6

85 65.6 32.6 98.0

Manual Integrations
APPROVED

MMDadoda
2/21/2020 3:24:37 PM

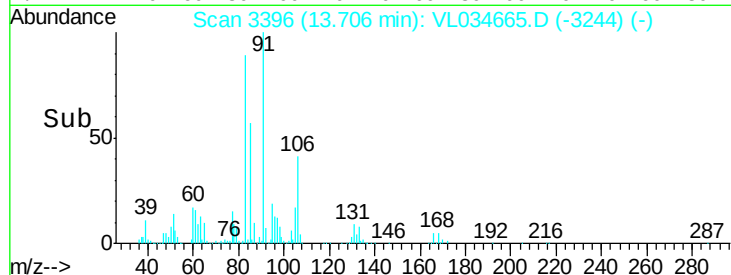


Abundance Ion 83.00 (82.70 to 83.70): VL0

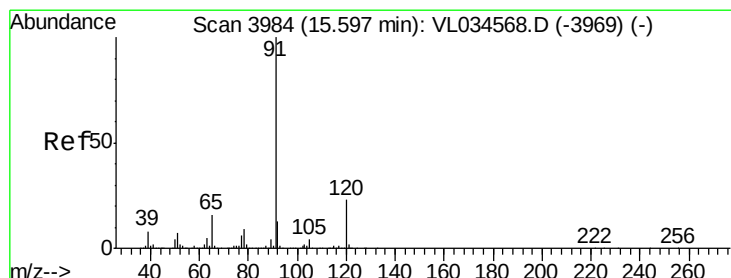
Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Time--> 13.60 13.70



Time--> 13.60 13.70



#64

n-propylbenzene

Concen: 11.082 ppbv

RT: 15.59 min Scan# 3982

Delta R.T. -0.01 min

Lab File: VL034665.D

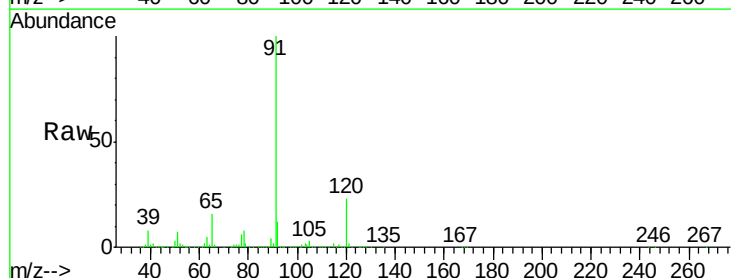
Acq: 20 Feb 2020 9:49

Tgt Ion: 120 Resp: 870117

Ion Ratio Lower Upper

120 100

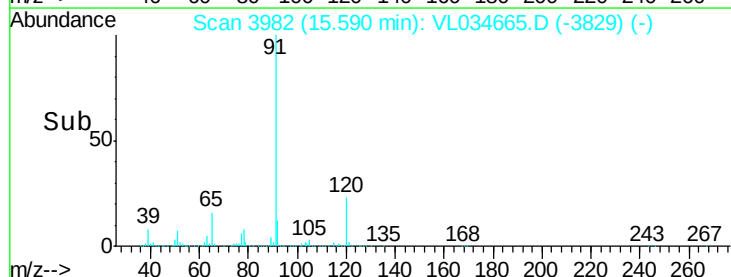
91 484.3 365.3 547.9



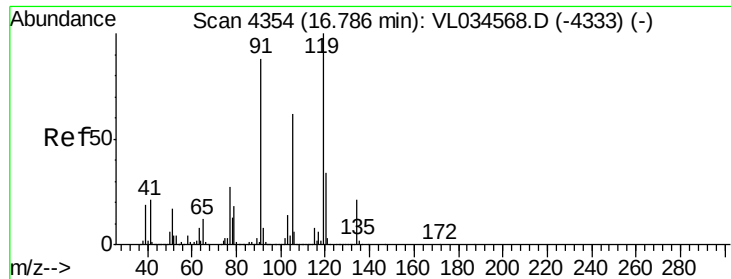
Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Time--> 15.50 15.55 15.60 15.65



Time--> 15.50 15.55 15.60 15.65



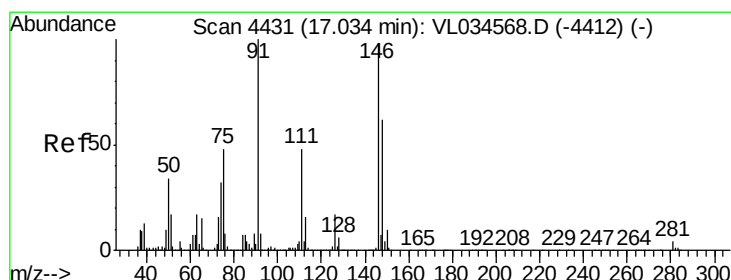
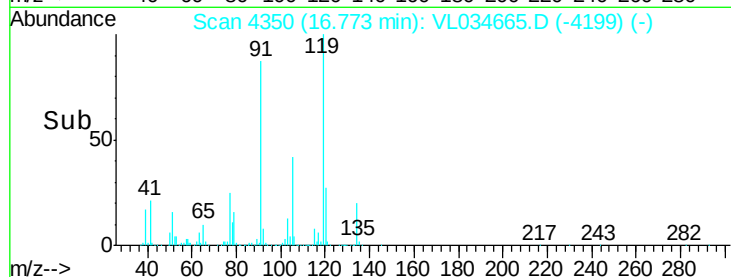
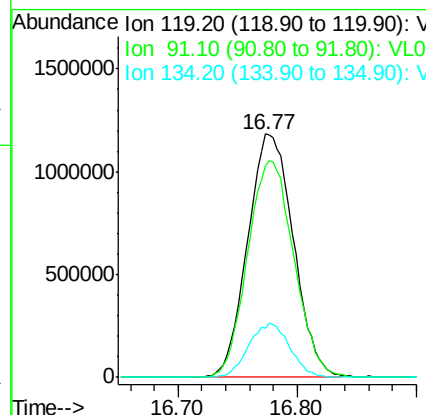
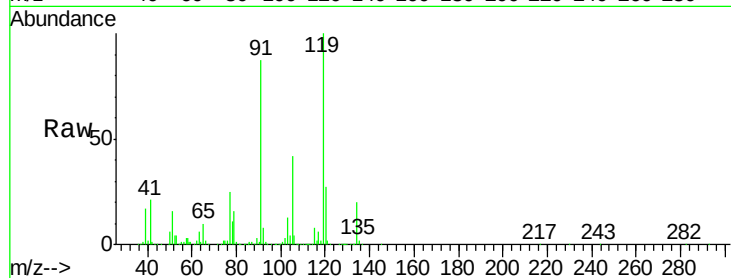
#65
tert-Butylbenzene
Concen: 11.368 ppbv
RT: 16.77 min Scan# 4350
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 3143075
Ion Ratio Lower Upper
119 100
91 90.1 72.2 108.4
134 20.1 15.9 23.9

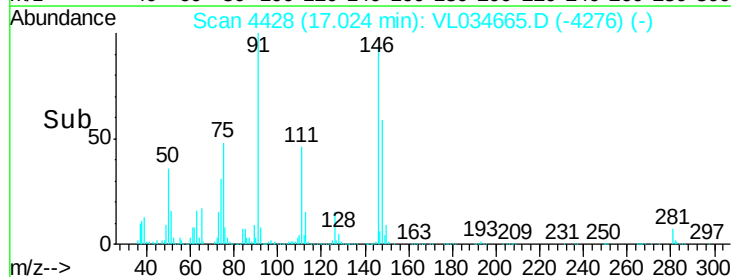
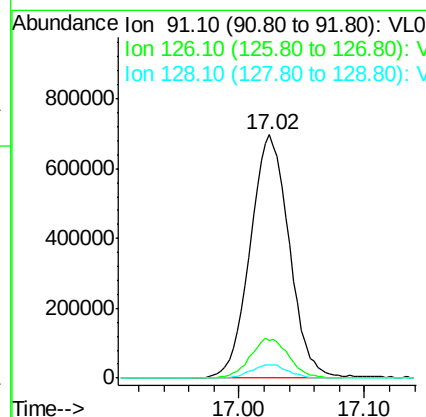
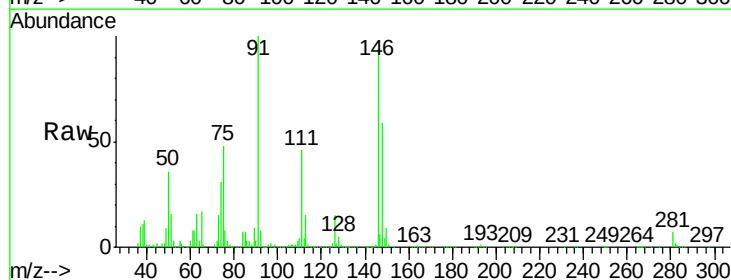
Manual Integrations
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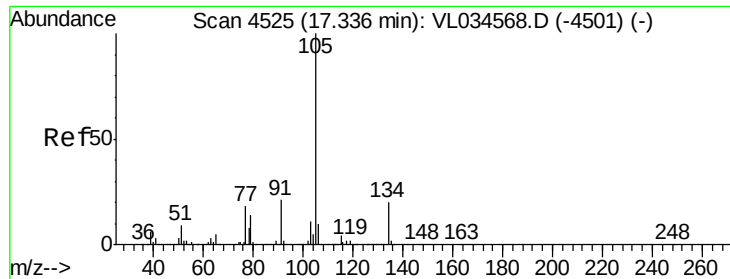
MMDadoda
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#66
Benzyl Chloride
Concen: 12.966 ppbv
RT: 17.02 min Scan# 4428
Delta R.T. -0.01 min
Lab File: VL034665.D
Acq: 20 Feb 2020 9:49

Tgt Ion: 91 Resp: 1503133
Ion Ratio Lower Upper
91 100
126 16.2 13.4 20.0
128 5.2 4.3 6.5





#67

sec-Butylbenzene

Concen: 11.166 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4242804

Ion Ratio Lower Upper

105 100

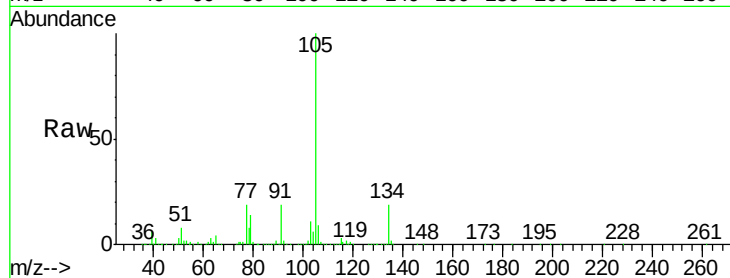
134 19.3 15.5 23.3

Manual Integrations

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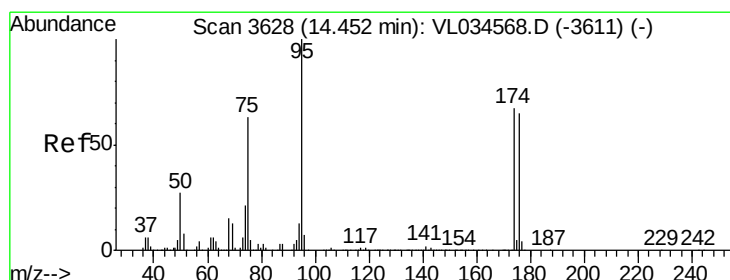
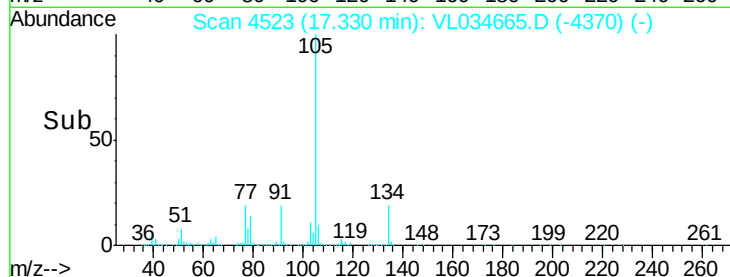
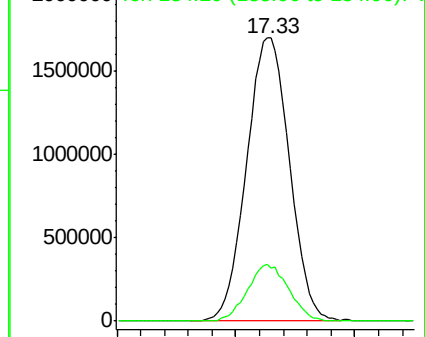
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.490 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

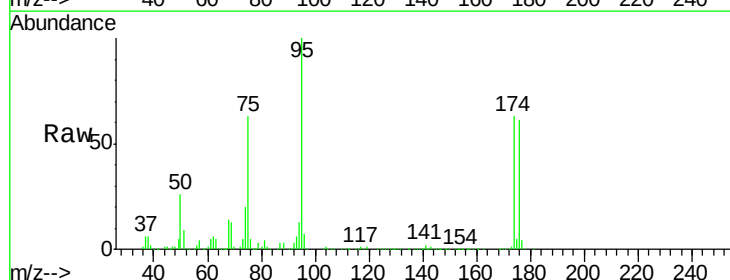
Tgt Ion: 95 Resp: 1589971

Ion Ratio Lower Upper

95 100

174 64.2 52.3 78.5

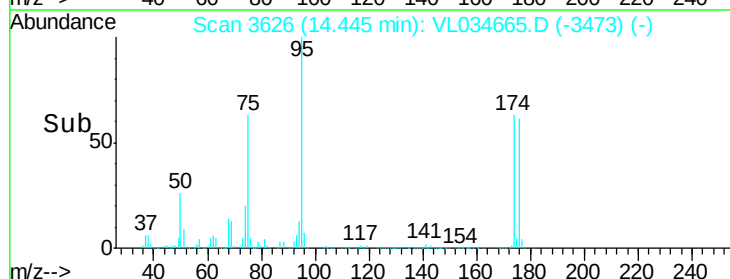
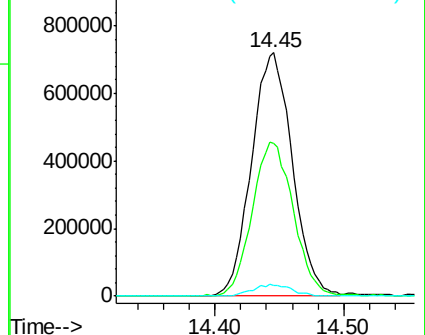
175 4.6 3.8 5.6

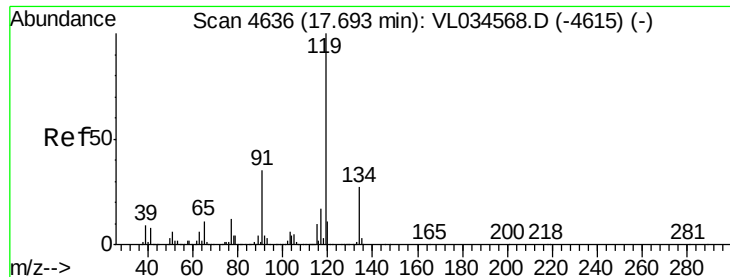


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





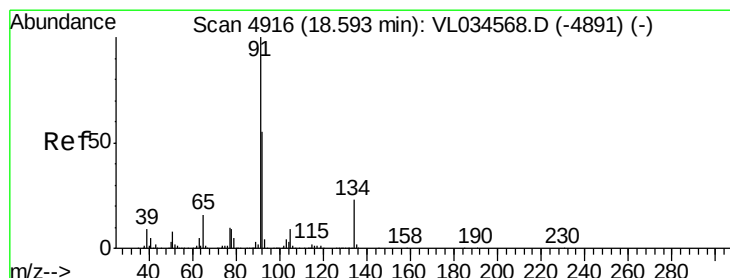
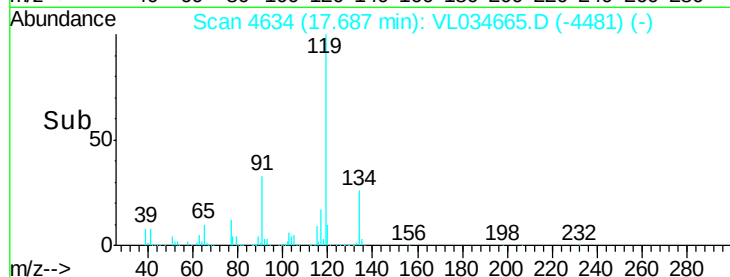
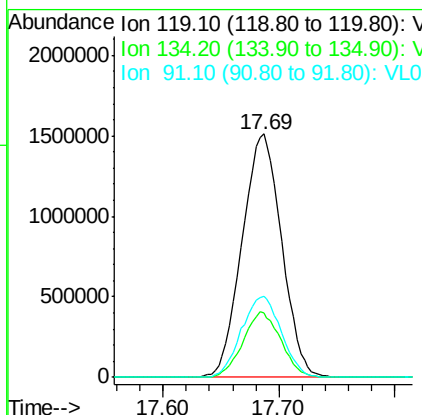
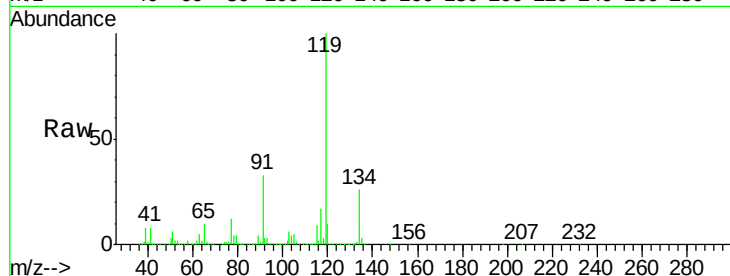
#69
 p-Isopropyltoluene
 Concen: 11.602 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.7	31.1
91	33.5	26.9	40.3

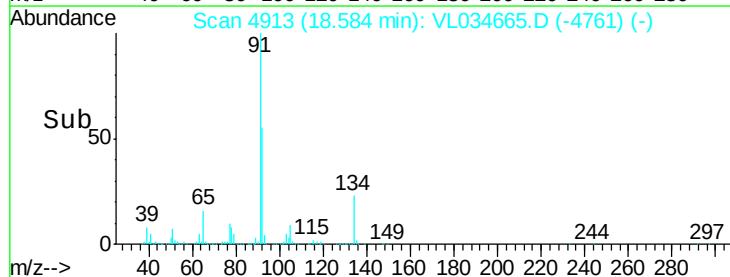
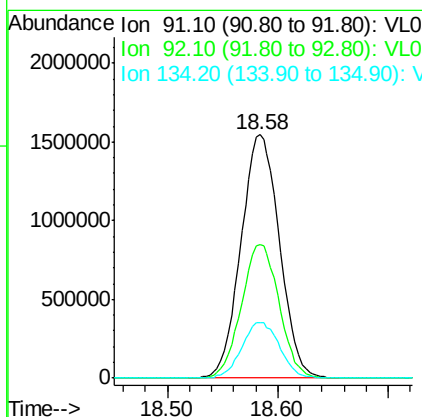
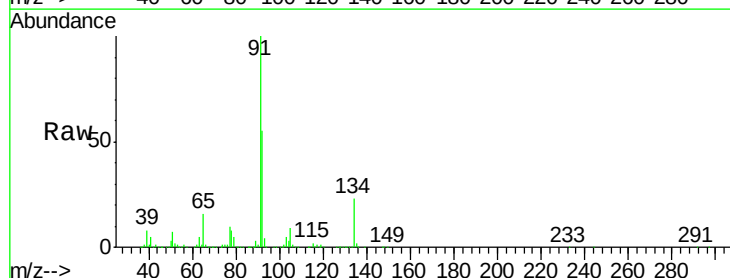
Manual Integrations
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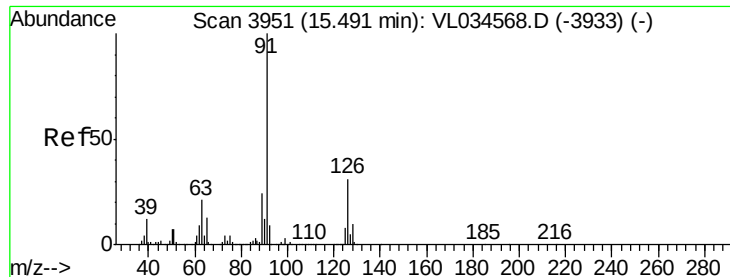
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#70
 n-Butylbenzene
 Concen: 11.385 ppbv
 RT: 18.58 min Scan# 4913
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.6	65.4
134	22.5	18.2	27.4





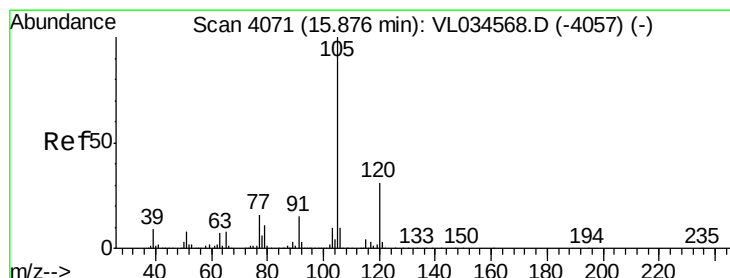
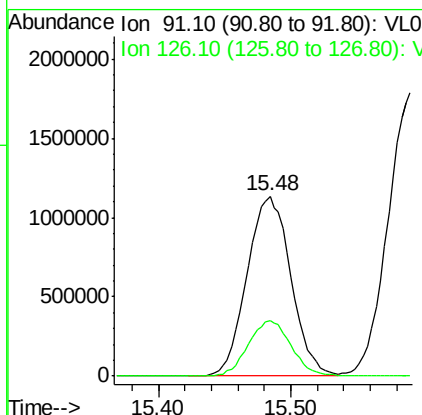
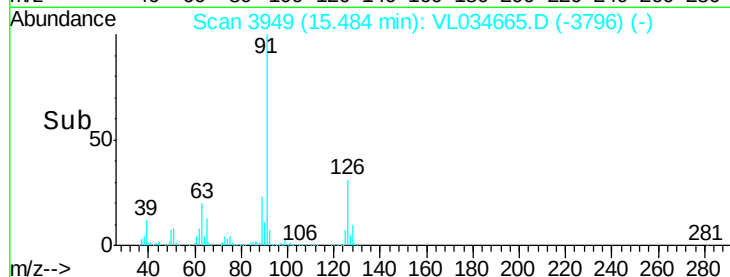
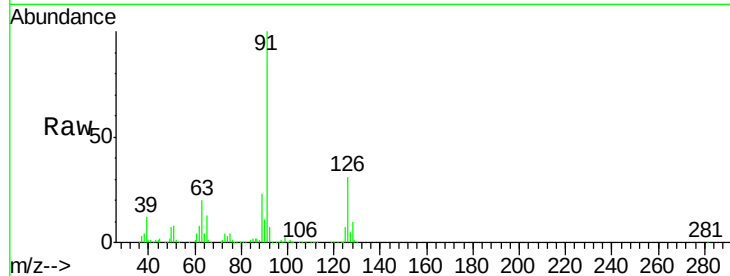
#71
 2-Chlorotoluene
 Concen: 11.265 ppbv
 RT: 15.48 min Scan# 3949
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2609467
 Ion Ratio Lower Upper
 91 100
 126 30.3 12.0 47.8

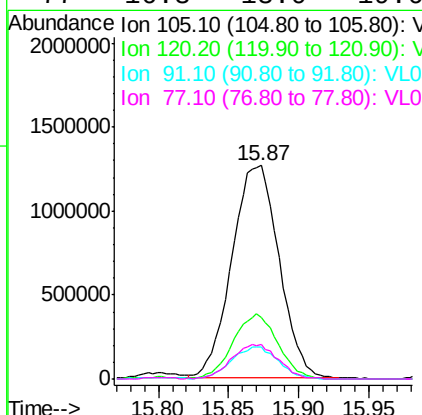
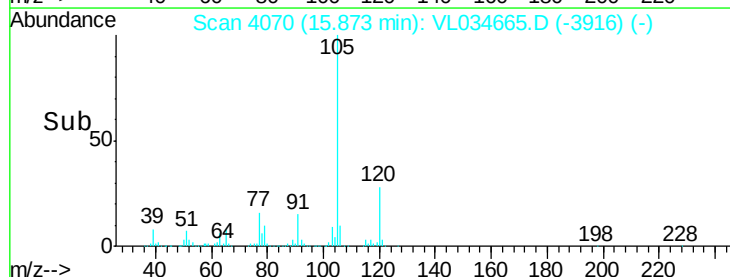
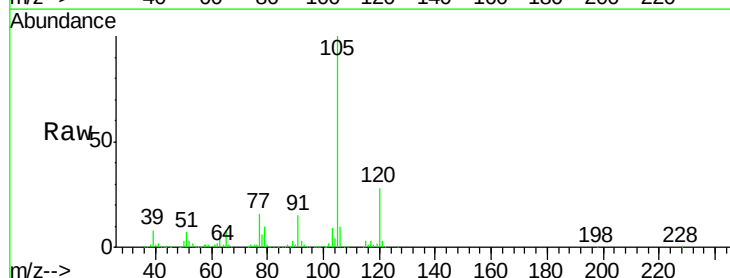
Manual Integrations
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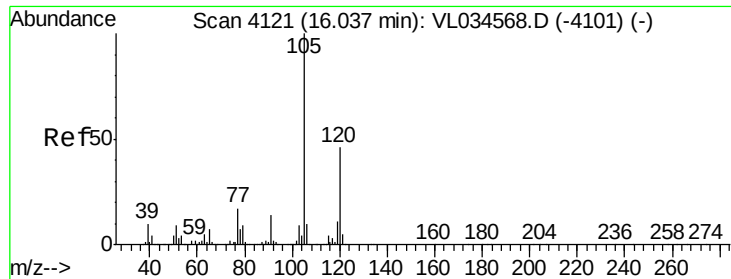
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#72
 4-Ethyltoluene
 Concen: 11.455 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. -0.00 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Tgt Ion: 105 Resp: 2963343
 Ion Ratio Lower Upper
 105 100
 120 30.1 23.8 35.6
 91 15.5 11.8 17.8
 77 16.3 13.0 19.6





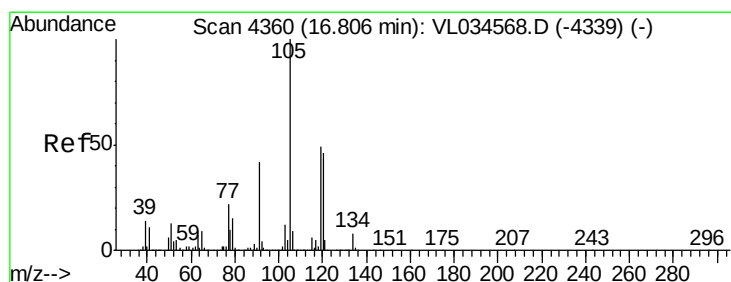
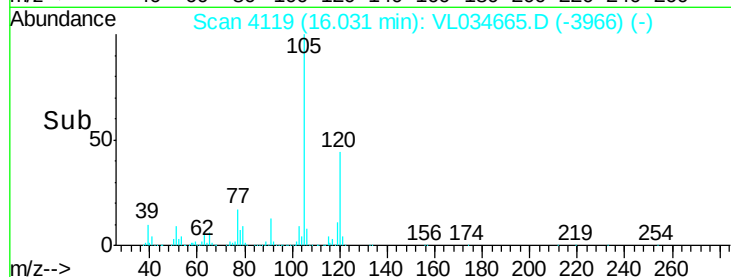
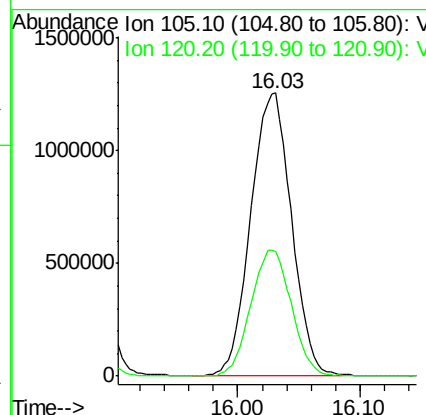
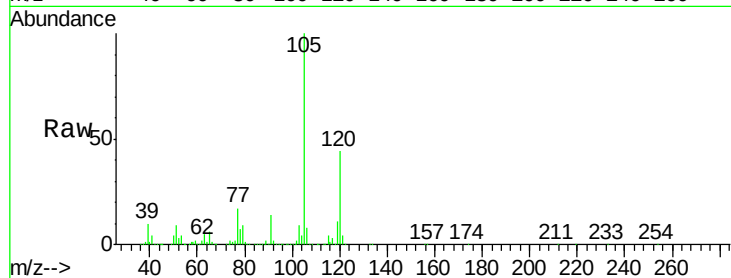
#73
 1,3,5-Trimethylbenzene
 Concen: 11.418 ppbv
 RT: 16.03 min Scan# 4119
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 2886234
 Ion Ratio Lower Upper
 105 100
 120 43.9 37.0 55.6

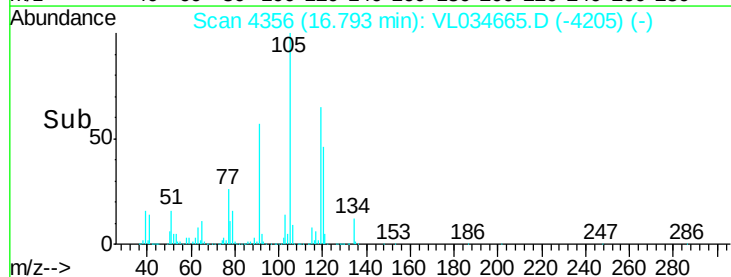
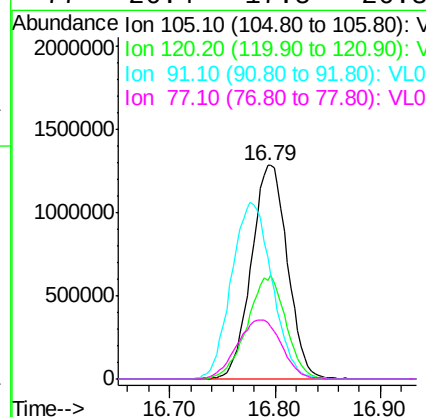
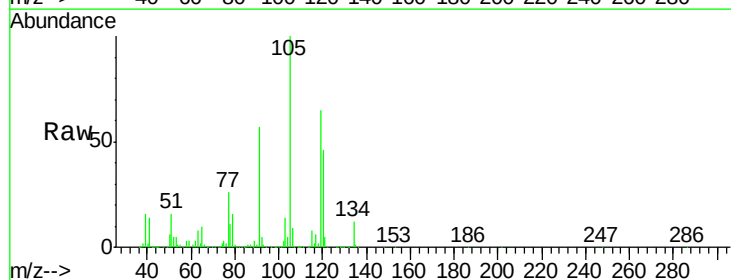
Manual Integrations
 APPROVED

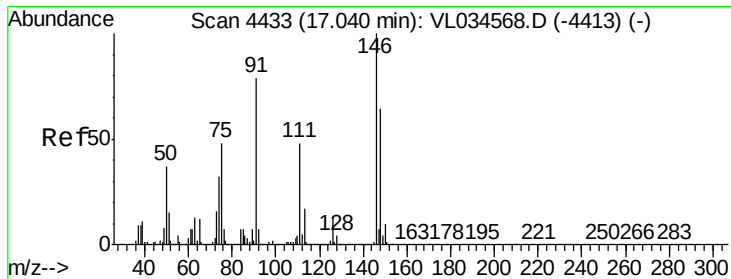
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#74
 1,2,4-Trimethylbenzene
 Concen: 10.932 ppbv
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Tgt Ion:105 Resp: 3059069
 Ion Ratio Lower Upper
 105 100
 120 46.4 37.1 55.7
 91 56.7 34.3 51.5#
 77 26.4 17.5 26.3#





#75

1,3-Dichlorobenzene

Concen: 10.613 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1709940

Ion Ratio Lower Upper

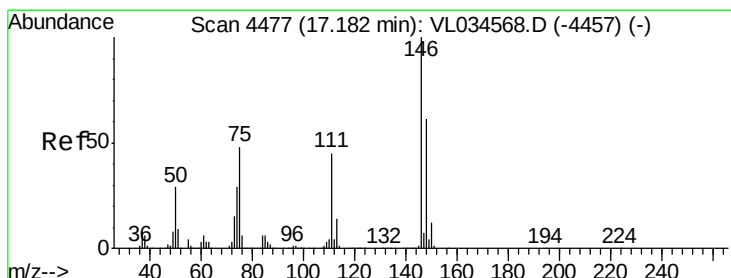
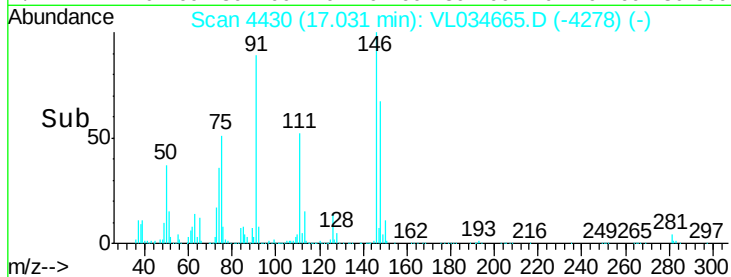
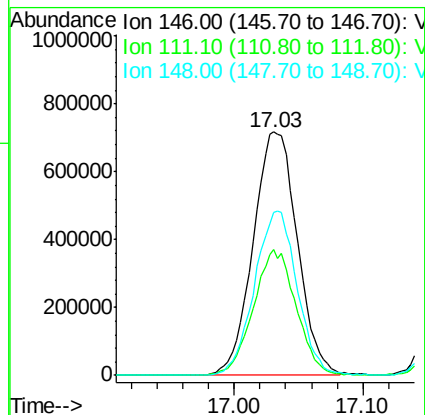
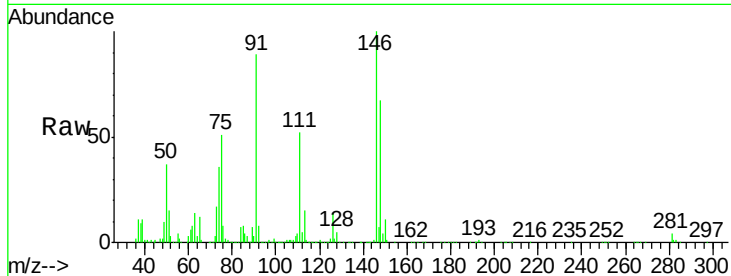
146 100

111 50.0 24.7 74.1

148 65.5 32.8 98.4

Manual Integrations
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2/21/2020 3:24:37 PM



#76

1,4-Dichlorobenzene

Concen: 10.763 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

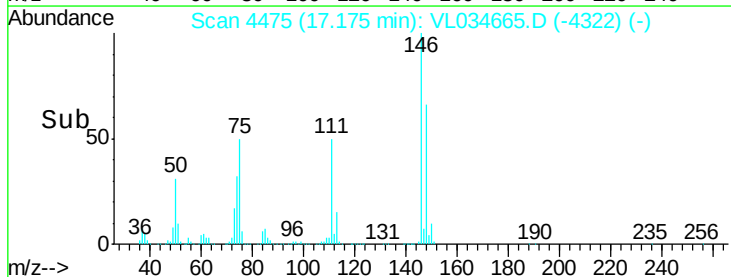
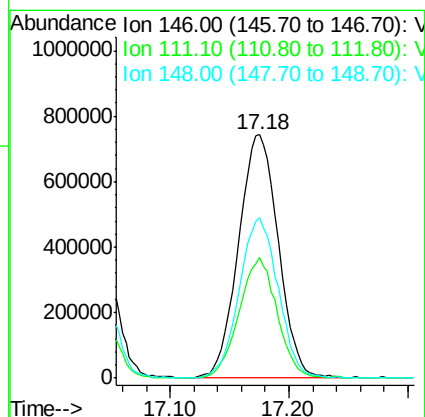
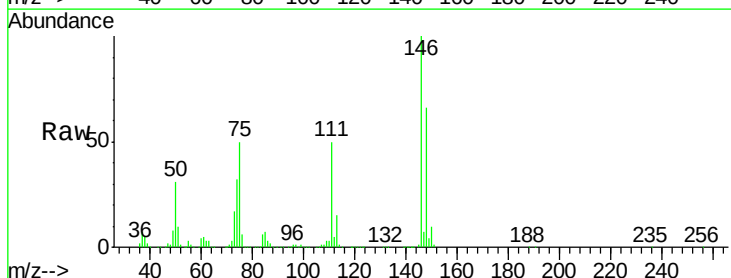
Tgt Ion:146 Resp: 1709108

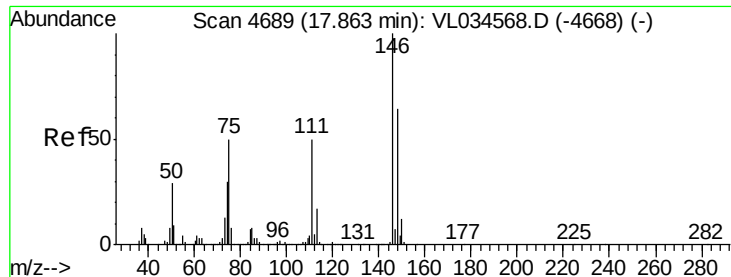
Ion Ratio Lower Upper

146 100

111 47.7 24.1 72.2

148 65.0 32.6 98.0





#77

1,2-Dichlorobenzene

Concen: 10.495 ppbv

RT: 17.85 min Scan# 4686

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1624472

Ion Ratio Lower Upper

146 100

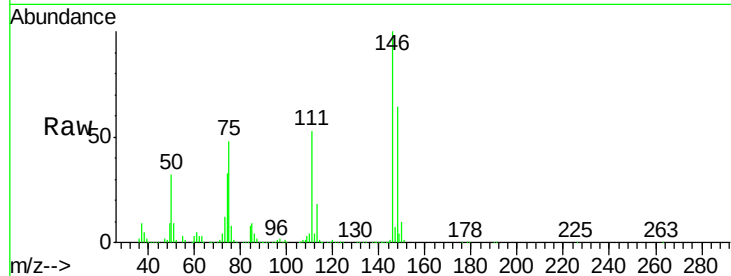
111 51.3 25.1 75.3

148 64.3 32.2 96.6

Manual Integrations
APPROVED

MMDadoda

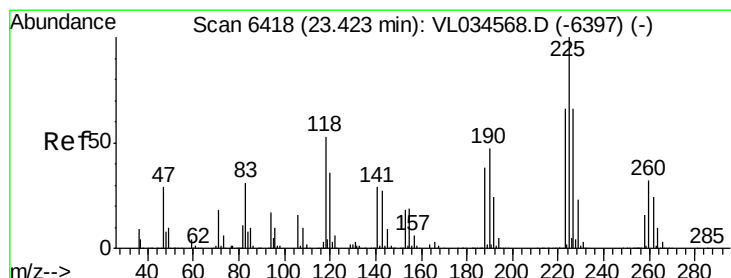
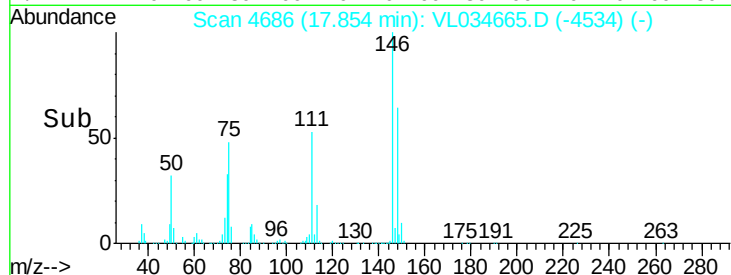
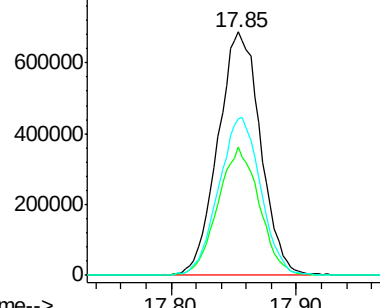
2/21/2020 3:24:37 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.405 ppbv

RT: 23.41 min Scan# 6415

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

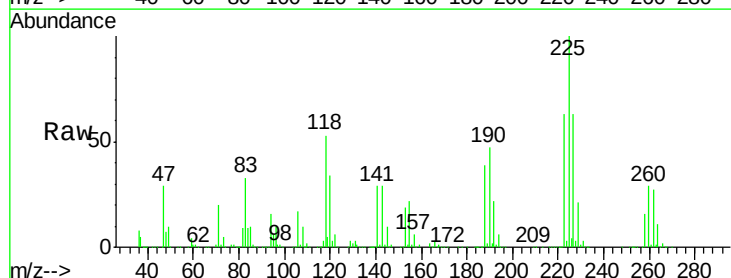
Tgt Ion:225 Resp: 1540116

Ion Ratio Lower Upper

225 100

223 63.1 50.9 76.3

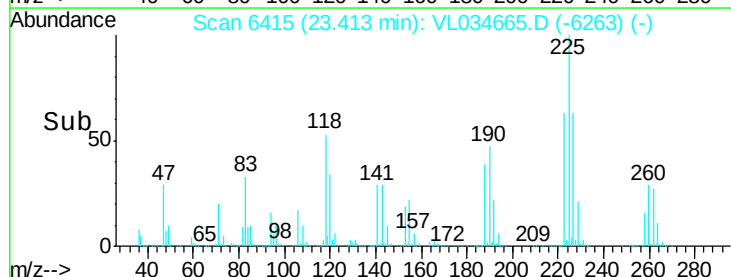
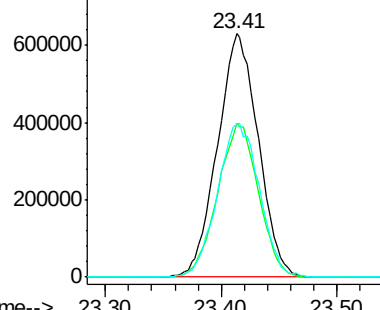
227 65.0 51.6 77.4

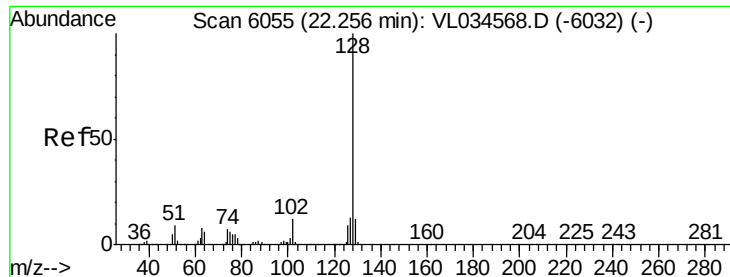


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.865 ppbv

RT: 22.25 min Scan# 6053

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2613777

Ion Ratio Lower Upper

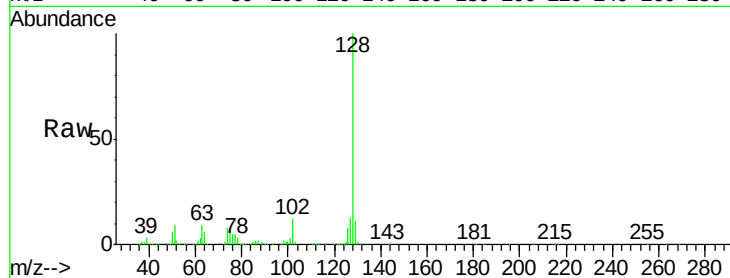
128 100

127 13.2 10.1 15.1

129 11.3 9.3 13.9

Manual Integrations
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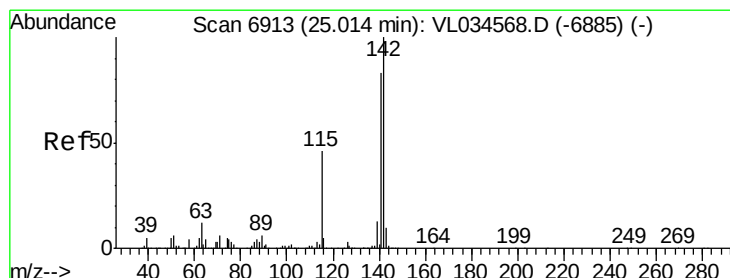
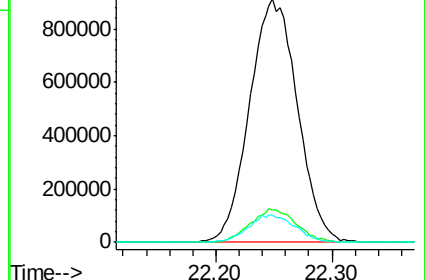
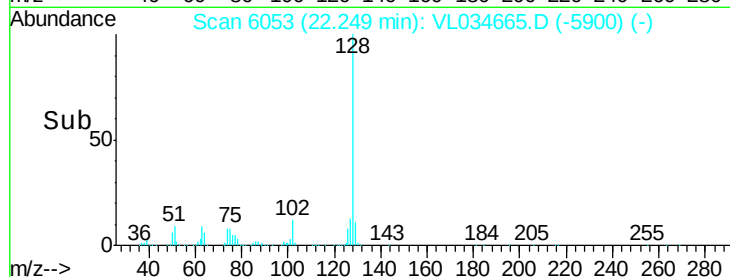
MMDadoda
2/21/2020 3:24:37 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 16.576 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. -0.01 min

Lab File: VL034665.D

Acq: 20 Feb 2020 9:49

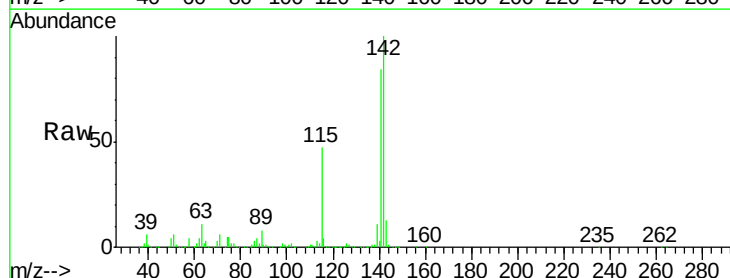
Tgt Ion:142 Resp: 1404840

Ion Ratio Lower Upper

142 100

141 84.4 67.0 100.4

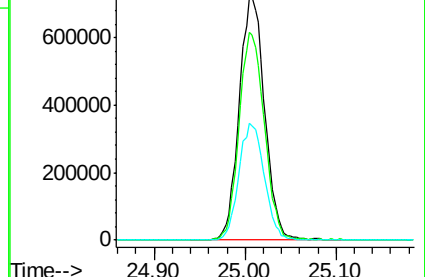
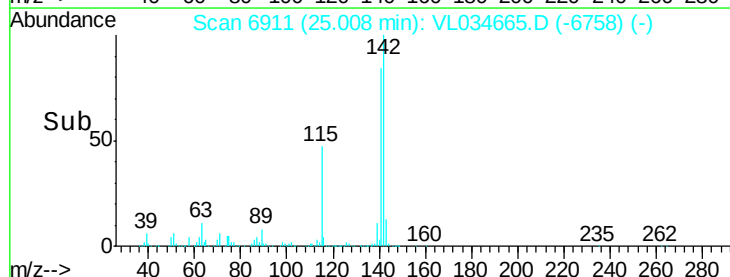
115 48.0 39.5 59.3

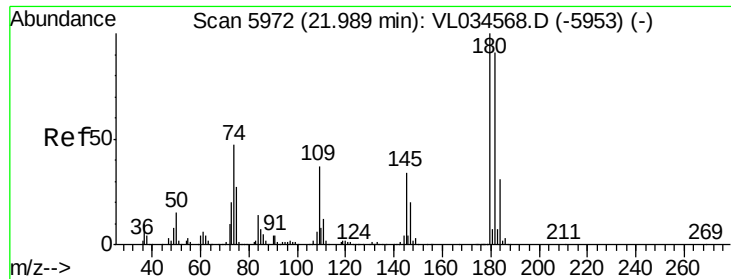


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.753 ppbv
 RT: 21.98 min Scan# 5969
 Delta R.T. -0.01 min
 Lab File: VL034665.D
 Acq: 20 Feb 2020 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.8	116.6
184	30.6	25.4	38.0

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:24:37 PM

