

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035076.D
 Acq On : 20 May 2020 11:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:28:51 PM

Quant Time: May 20 14:16:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 20
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1148300	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2737631	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	2724281m	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2183800	9.90	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1425709	8.748	ppbv 99
3) Chlorodifluoromethane	2.93	51	1308593	9.981	ppbv 98
4) Chloromethane	3.09	50	759680	10.111	ppbv 100
5) Vinyl Chloride	3.20	62	738281	10.073	ppbv 98
6) Bromomethane	3.42	94	423224	9.671	ppbv 92
7) Chloroethane	3.51	64	265602	10.090	ppbv 95
8) Dichlorotetrafluoroethane	3.14	85	1584546	9.395	ppbv 98
9) Propene	2.96	41	638621	11.226	ppbv 100
10) Heptane	8.11	43	1596617	11.202	ppbv 97
11) Trichlorofluoromethane	3.91	101	1574579	9.370	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1129638	9.441	ppbv 98
13) Ethanol	3.56	45	168634	8.983	ppbv 99
14) Bromoethene	3.69	108	510481	10.324	ppbv 98
15) Acetone	3.80	43	1341867	8.839	ppbv 99
16) 1,3-Butadiene	3.28	39	690082	10.563	ppbv 97
17) tert-Butyl alcohol	4.25	59	1348962	9.987	ppbv 98
18) 1,1-Dichloroethene	4.25	96	526796	10.148	ppbv 96
19) Isopropyl Alcohol	3.93	45	993520	9.814	ppbv 99
20) Methylene Chloride	4.30	84	453452	9.023	ppbv 95
21) Allyl Chloride	4.37	41	924064	10.776	ppbv 98
22) trans-1,2-Dichloroethene	4.85	96	521154	10.135	ppbv 94
23) Vinyl Acetate	5.04	43	2142565	11.130	ppbv 98
24) 1,1-Dichloroethane	4.98	63	1445138	9.746	ppbv 98
25) Ethyl Acetate	5.65	43	2717077	10.655	ppbv 100
26) Hexane	5.66	57	1177608	10.652	ppbv 98
27) Carbon Disulfide	4.51	76	1287442	9.881	ppbv 99
28) Methyl tert-Butyl Ether	5.00	73	1742722	10.351	ppbv 98
29) Chloroform	5.73	83	1725167	9.538	ppbv 99
30) Cyclohexane	7.11	84	982012	11.511	ppbv 98
31) cis-1,2-Dichloroethene	5.52	61	1193990	11.069	ppbv 96
32) 1,1,1-Trichloroethane	6.49	97	1639563	10.037	ppbv 99
34) 2-Butanone	5.21	43	1817584	10.682	ppbv 99
35) Carbon Tetrachloride	7.01	117	1645361	9.522	ppbv 96
36) Benzene	6.88	78	2358941	10.451	ppbv 98
37) 1,2-Dichloroethane	6.29	62	1331133	9.561	ppbv 99
38) Trichloroethene	7.83	130	885384	10.126	ppbv 98
39) 1,2-Dichloropropane	7.60	63	927826	10.254	ppbv 96
40) 1,4-Dioxane	7.82	88	359114	9.765	ppbv 92
41) Tetrahydrofuran	6.02	42	1054410	11.770	ppbv 98
42) Bromodichloromethane	7.78	83	1812849	9.654	ppbv 97
43) Methyl Methacrylate	8.01	69	1060449	11.127	ppbv 97

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Manual Integrations
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Quant Time: May 20 14:16:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4045542	10.082	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1148346	11.939	ppbv	97
46) cis-1,3-Dichloropropene	8.70	75	1374598	11.641	ppbv	96
47) 1,1,2-Trichloroethane	9.48	97	947427	9.923	ppbv	94
48) Dibromochloromethane	10.31	129	1480314	10.082	ppbv	100
49) Bromoform	13.06	173	1234490	9.771	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2623407	10.812	ppbv	99
51) 2-Hexanone	10.13	43	2155218	11.357	ppbv	98
52) Tetrachloroethene	11.23	164	807107	10.057	ppbv	99
53) Toluene	9.81	91	2703110	11.298	ppbv	100
54) 1,2-Dibromoethane	10.62	107	1427915	10.184	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.13	131	1125438	9.161	ppbv	99
57) Chlorobenzene	12.16	112	1967826	9.118	ppbv	98
58) Ethyl Benzene	12.72	91	3513699	10.430	ppbv	100
59) m/p-Xylene	12.98	91	5759765m	19.433	ppbv	
60) o-Xylene	13.71	91	2817310	9.633	ppbv	100
61) Styrene	13.54	104	2066714	11.166	ppbv	98
62) Isopropylbenzene	14.68	105	4169783	9.549	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	1930838	8.386	ppbv	99
64) n-propylbenzene	15.58	120	1106547	9.879	ppbv	98
65) tert-Butylbenzene	16.77	119	3604185	9.516	ppbv	99
66) Benzyl Chloride	17.01	91	1330160	10.345	ppbv	97
67) sec-Butylbenzene	17.32	105	5177391	9.576	ppbv	100
69) p-Isopropyltoluene	17.67	119	4324186	9.886	ppbv	99
70) n-Butylbenzene	18.57	91	4657325	10.005	ppbv	99
71) 2-Chlorotoluene	15.47	91	3252521	9.867	ppbv	99
72) 4-Ethyltoluene	15.86	105	3342533	10.243	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	3109507	9.792	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	3205892	9.249	ppbv	99
75) 1,3-Dichlorobenzene	17.02	146	1901509	9.342	ppbv	99
76) 1,4-Dichlorobenzene	17.17	146	1889092	9.768	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	1865990	9.730	ppbv	98
78) Hexachloro-1,3-Butadiene	23.41	225	1725346	10.554	ppbv	99
79) Naphthalene	22.23	128	3864727m	14.318	ppbv	
80) Naphthalene, 2-methyl-	24.99	142	1209170	18.224	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	2025143	12.372	ppbv	100

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

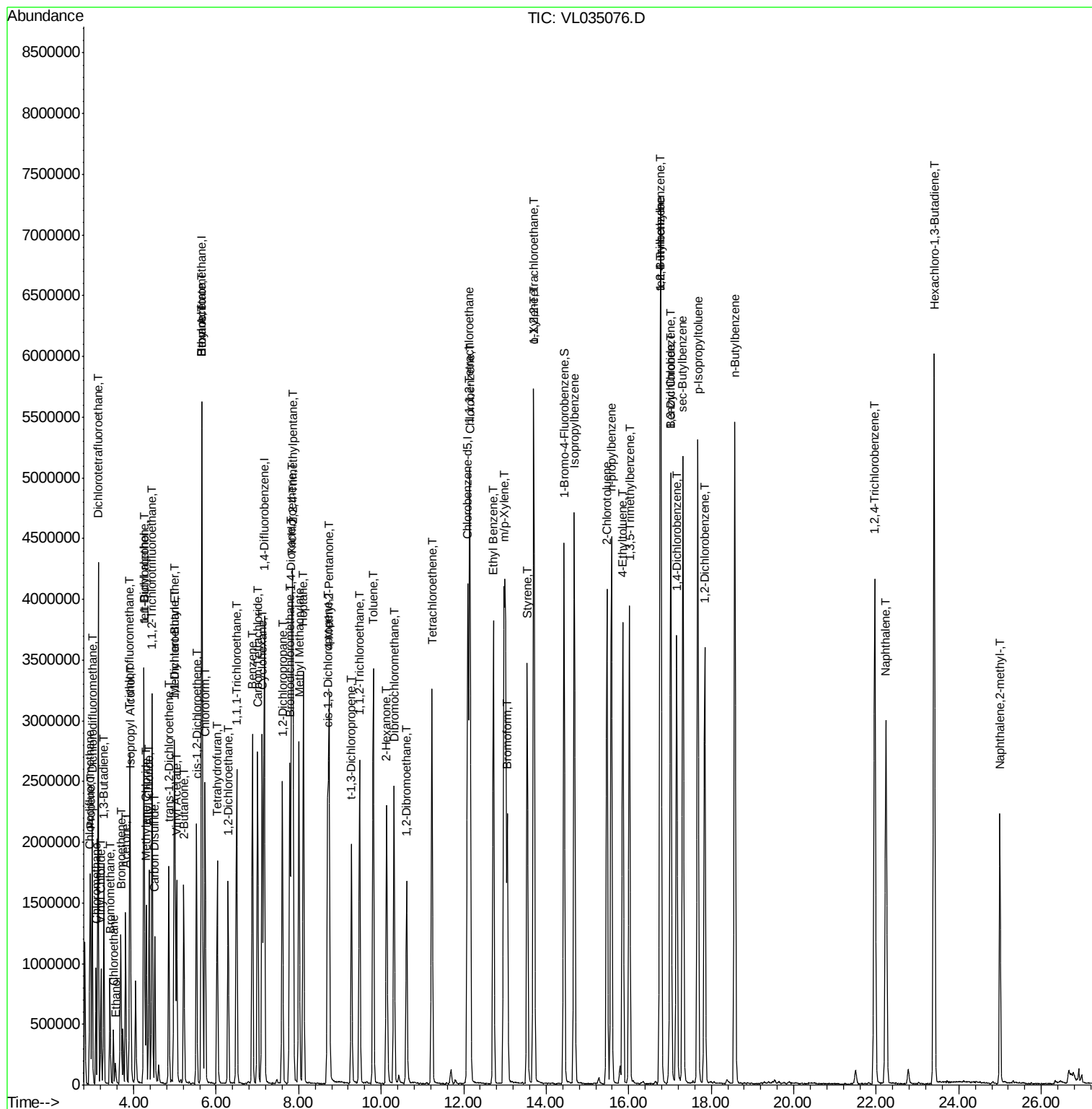
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
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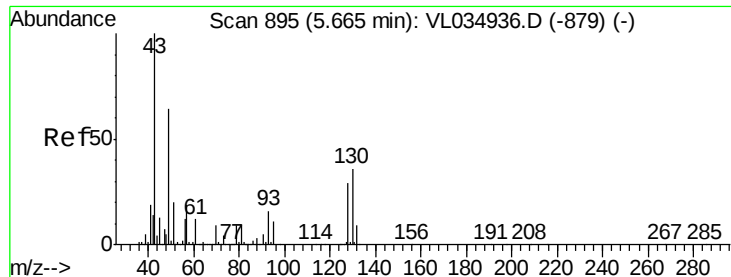
Instrument :
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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1148300

Ion Ratio Lower Upper

49 100

128 45.2 22.1 66.5

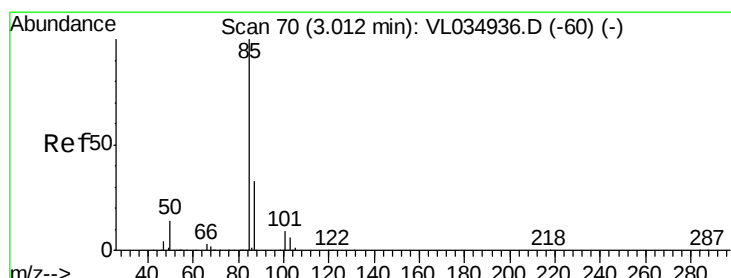
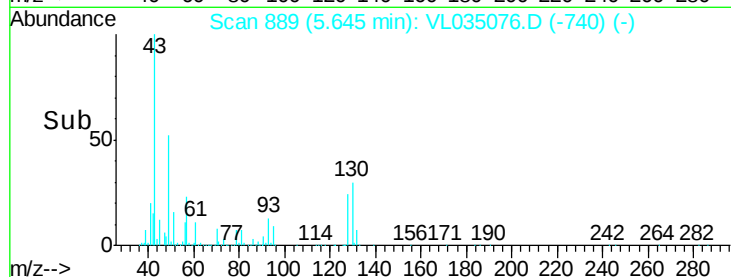
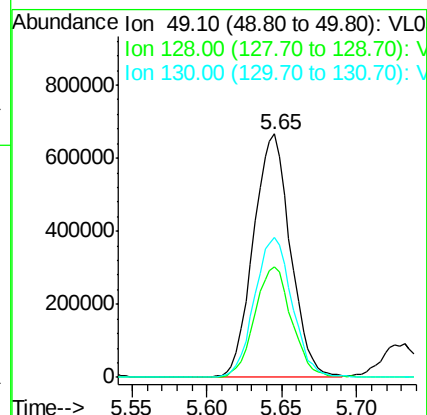
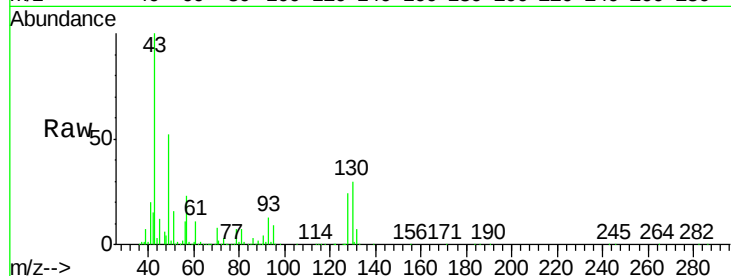
130 58.6 29.1 87.3

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 8.748 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035076.D

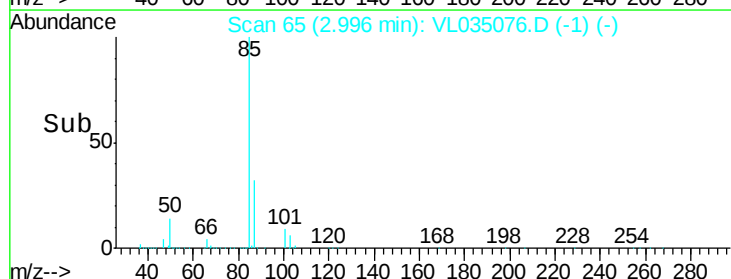
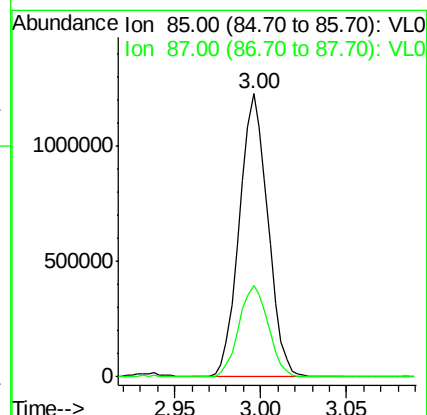
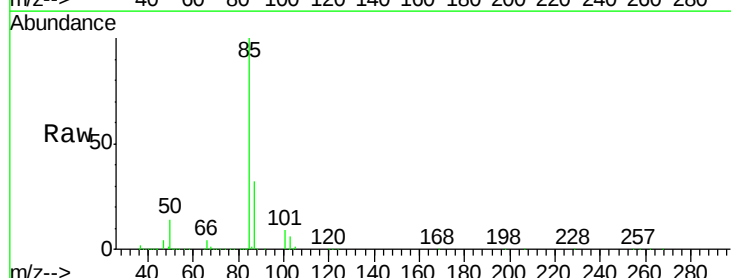
Acq: 20 May 2020 11:47

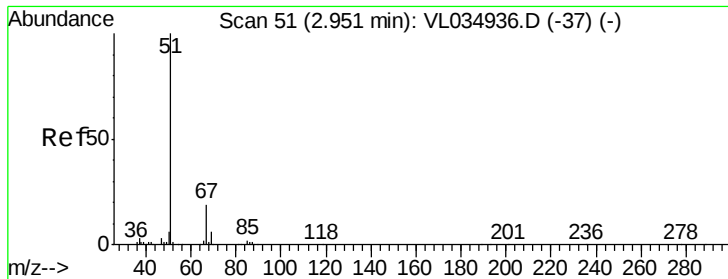
Tgt Ion: 85 Resp: 1425709

Ion Ratio Lower Upper

85 100

87 32.3 26.2 39.2





#3

Chlorodifluoromethane

Concen: 9.981 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tot Ion: 51 Resp: 1308593

Ion Ratio Lower Upper

51 100

67 18.0 15.0 22.6

Instrument :

MSVOA_L

ClientSampleId :

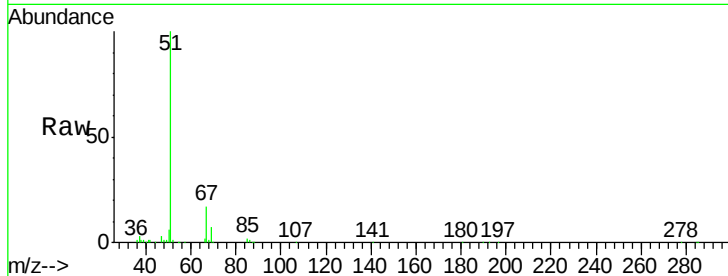
VSTDCCC010EC

Manual Integrations

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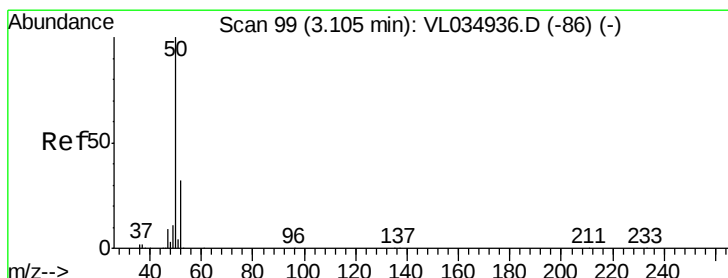
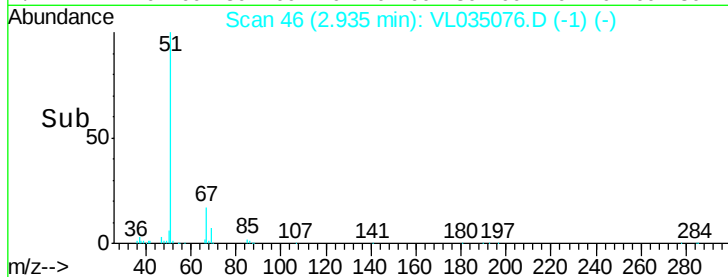
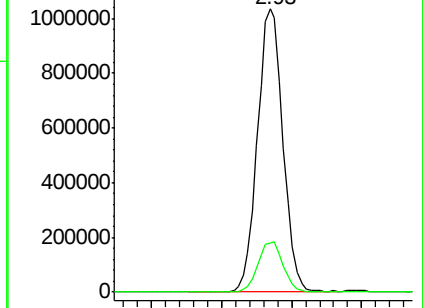
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.111 ppbv

RT: 3.09 min Scan# 94

Delta R.T. -0.02 min

Lab File: VL035076.D

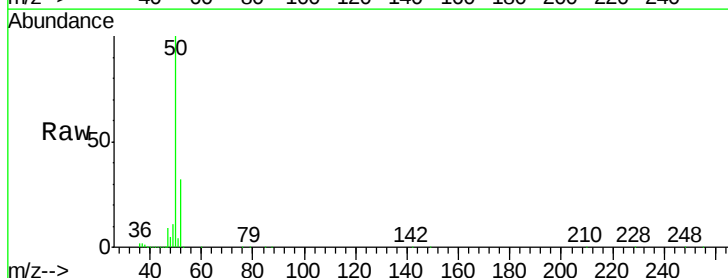
Acq: 20 May 2020 11:47

Tgt Ion: 50 Resp: 759680

Ion Ratio Lower Upper

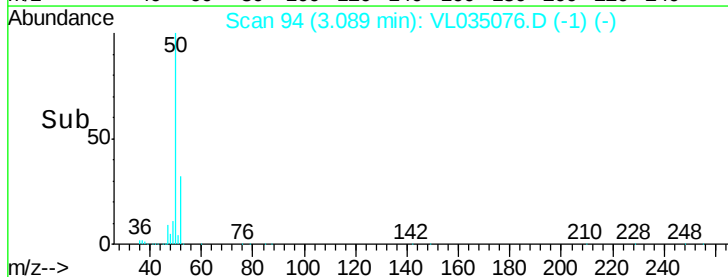
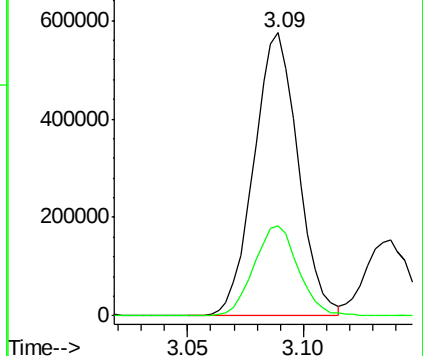
50 100

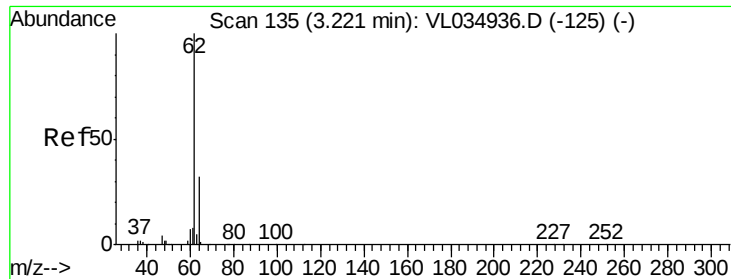
52 32.0 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.073 ppbv

RT: 3.20 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 738281

Ion Ratio Lower Upper

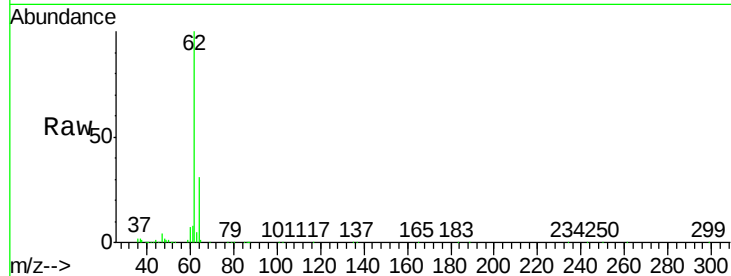
62 100

64 31.2 25.7 38.5

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.20

600000

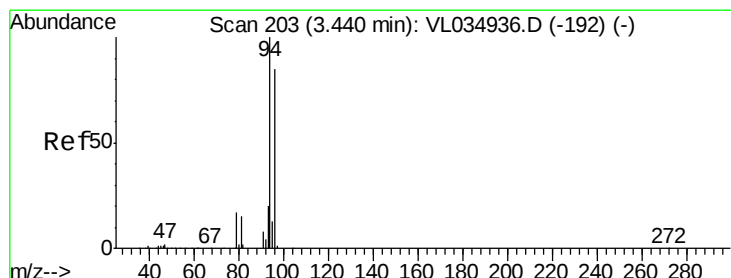
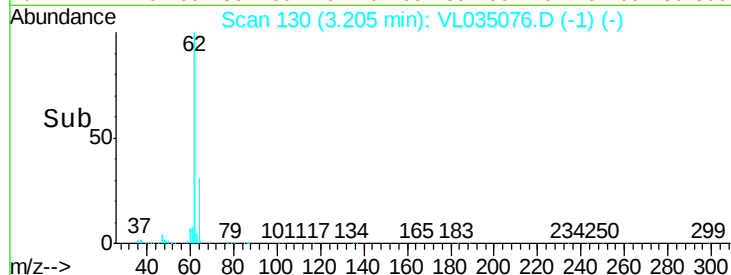
400000

200000

0

3.15 3.20 3.25

Time-->



#6

Bromomethane

Concen: 9.671 ppbv

RT: 3.42 min Scan# 198

Delta R.T. -0.02 min

Lab File: VL035076.D

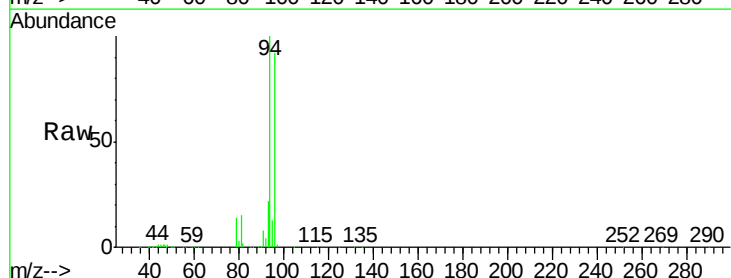
Acq: 20 May 2020 11:47

Tgt Ion: 94 Resp: 423224

Ion Ratio Lower Upper

94 100

96 91.8 67.9 101.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.42

300000

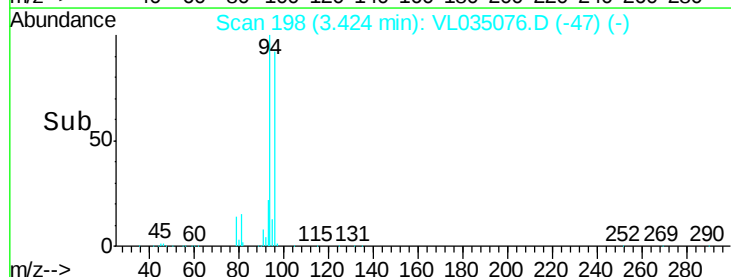
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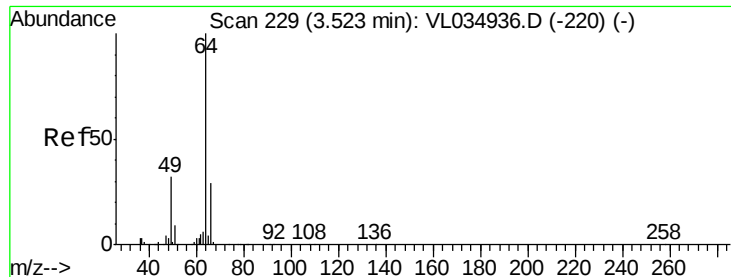
100000

0

3.40 3.45

Time-->





#7

Chloroethane

Concen: 10.090 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 265602

Ion Ratio Lower Upper

64 100

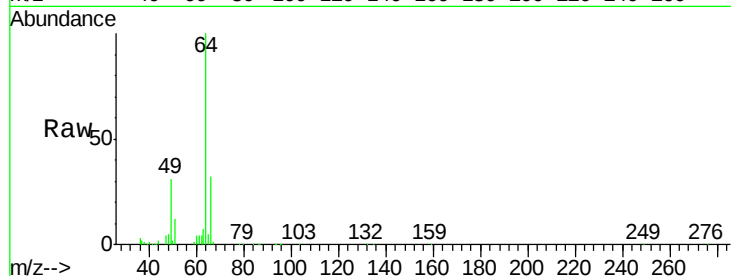
66 31.9 23.2 34.8

Manual Integrations

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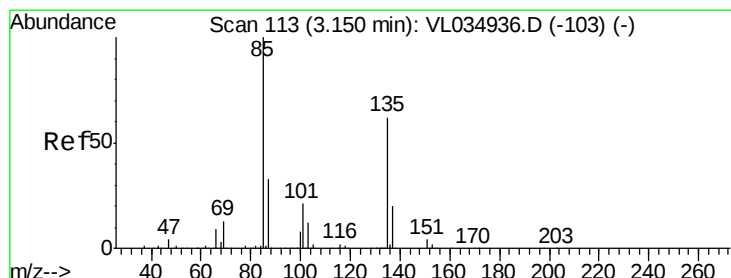
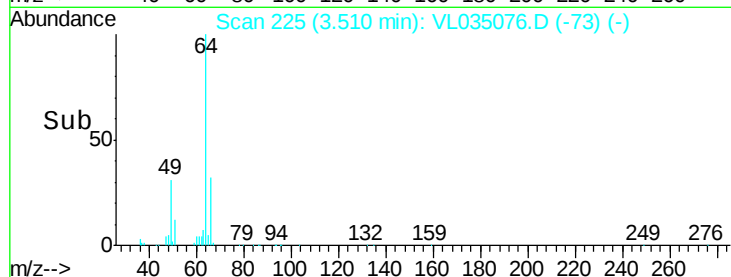
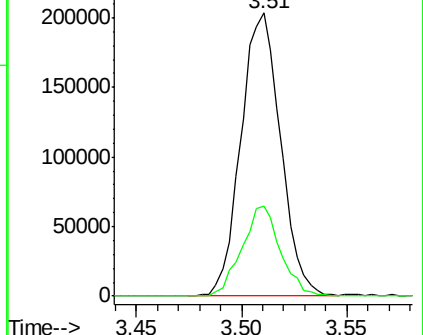
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.395 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL035076.D

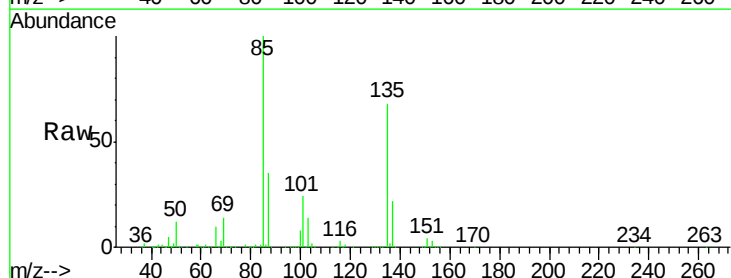
Acq: 20 May 2020 11:47

Tgt Ion: 85 Resp: 1584546

Ion Ratio Lower Upper

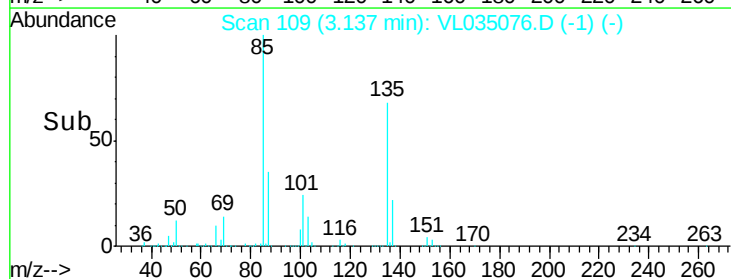
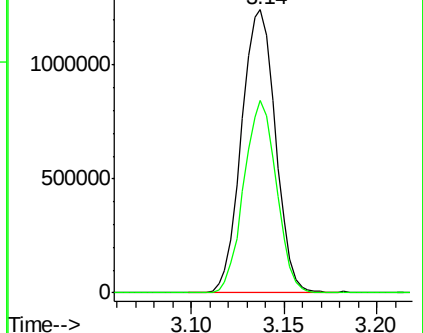
85 100

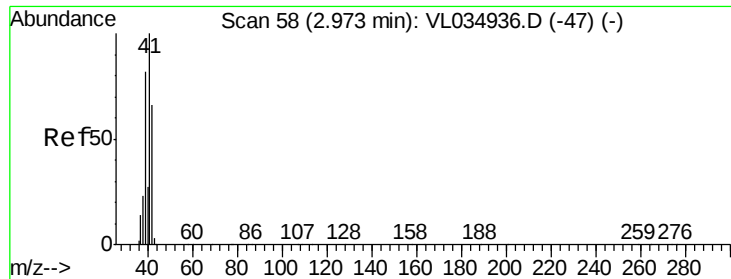
135 65.3 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.226 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 638621

Ion Ratio Lower Upper

41 100

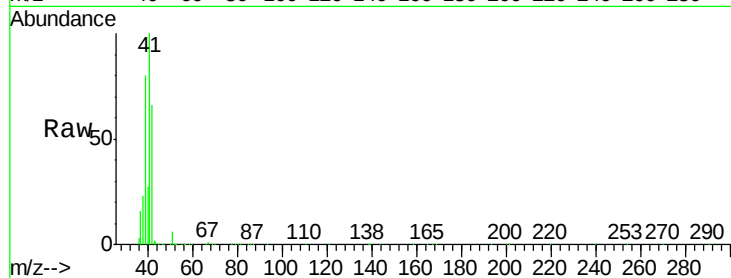
42 67.8 54.5 81.7

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

2.96

600000

500000

400000

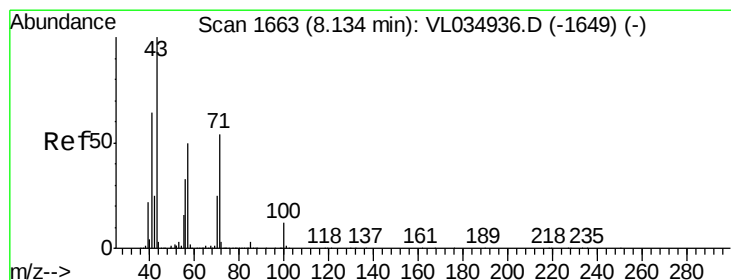
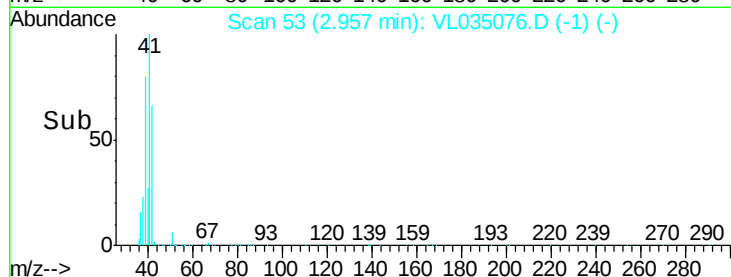
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200000

100000

0

Time-->



#10

Heptane

Concen: 11.202 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.02 min

Lab File: VL035076.D

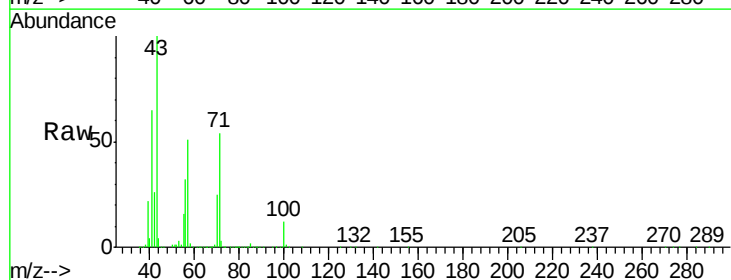
Acq: 20 May 2020 11:47

Tgt Ion: 43 Resp: 1596617

Ion Ratio Lower Upper

43 100

57 49.2 41.1 61.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.11

800000

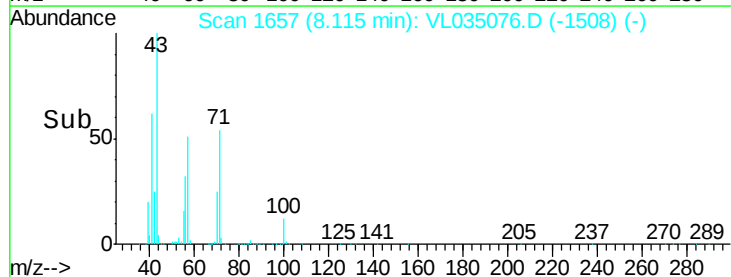
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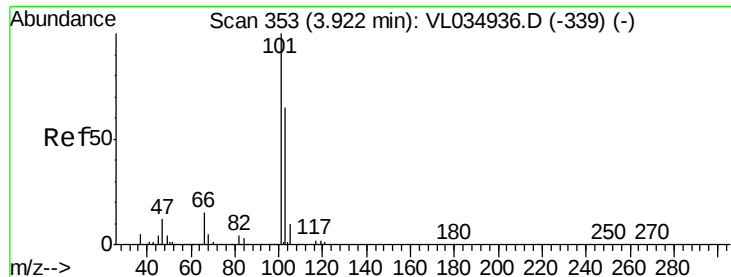
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200000

0

Time-->





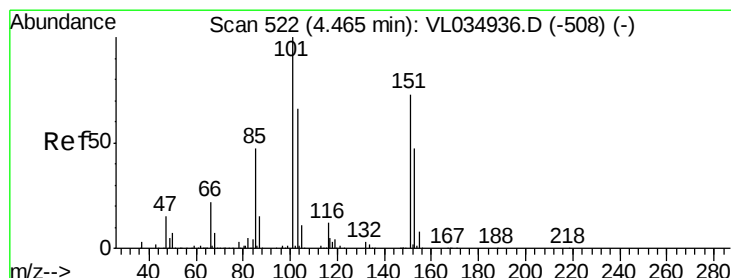
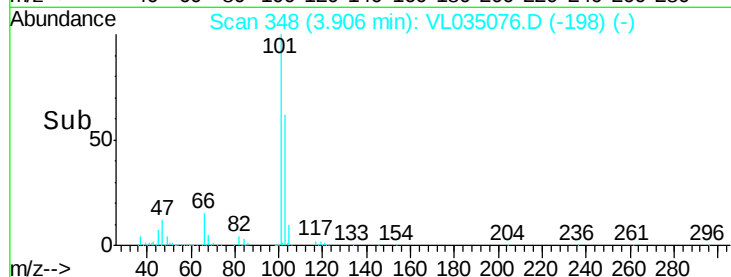
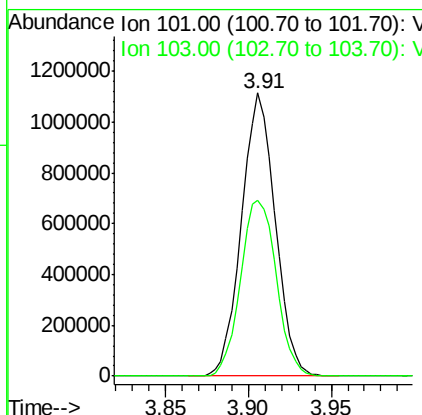
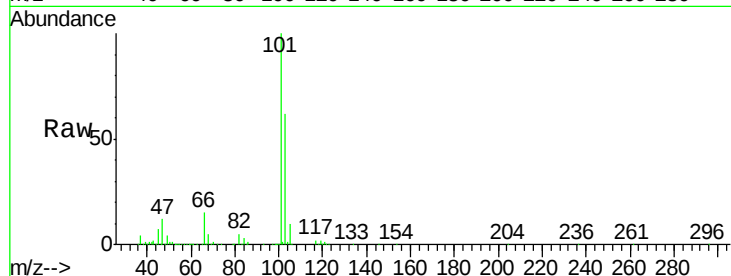
#11
 Trichlorofluoromethane
 Concen: 9.370 ppbv
 RT: 3.91 min Scan# 348
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1574579
 Ion Ratio Lower Upper
 101 100
 103 62.0 51.9 77.9

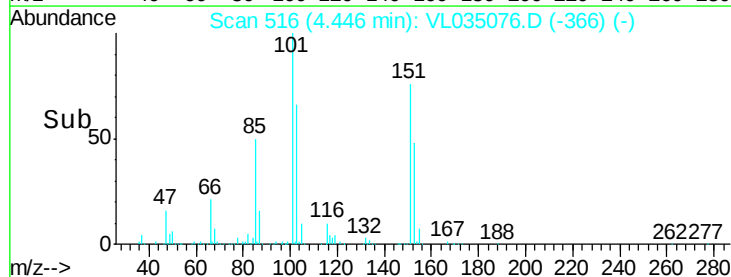
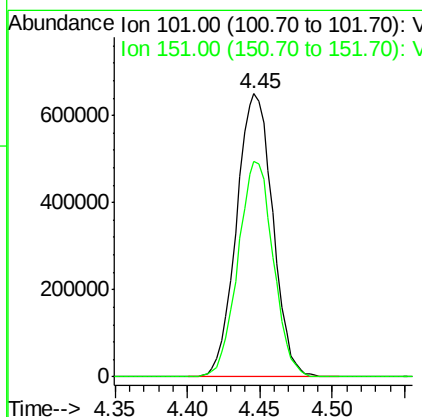
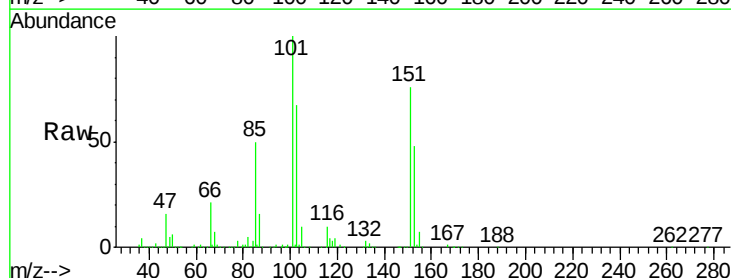
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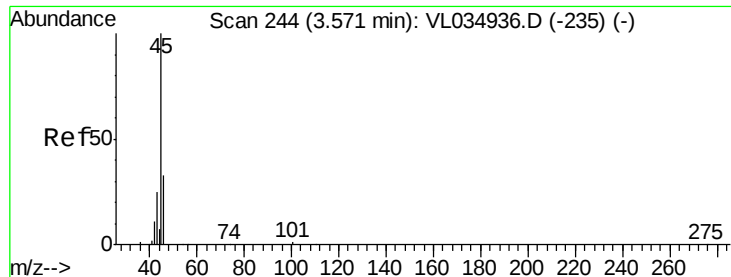
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.441 ppbv
 RT: 4.45 min Scan# 516
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion:101 Resp: 1129638
 Ion Ratio Lower Upper
 101 100
 151 74.0 57.6 86.4





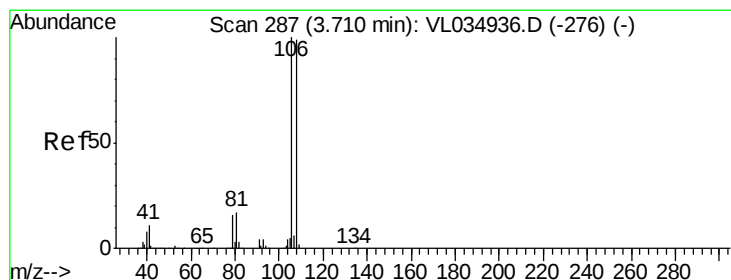
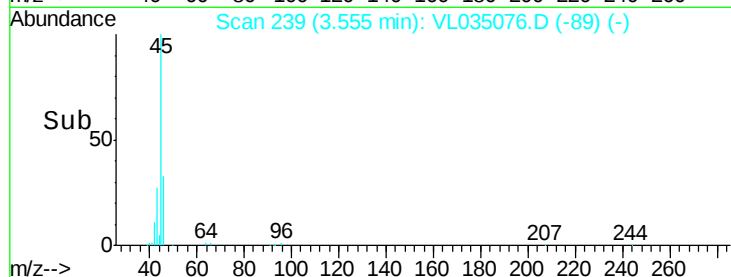
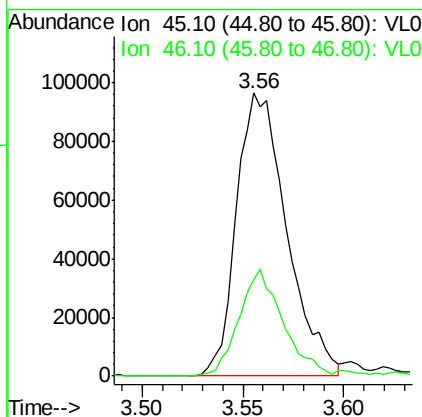
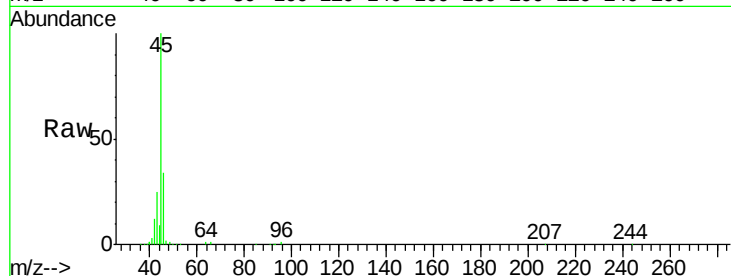
#13
Ethanol
Concen: 8.983 ppbv
RT: 3.56 min Scan# 239
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	168634
Ion Ratio	100	Lower	Upper
46	35.2	14.3	57.3

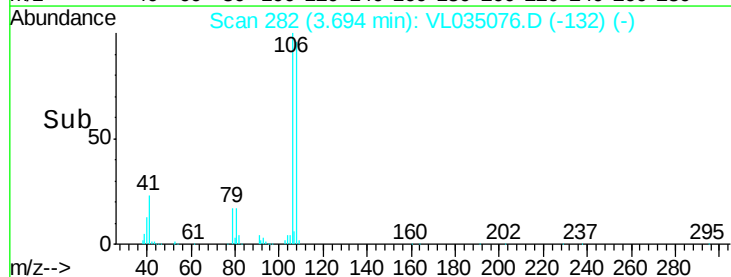
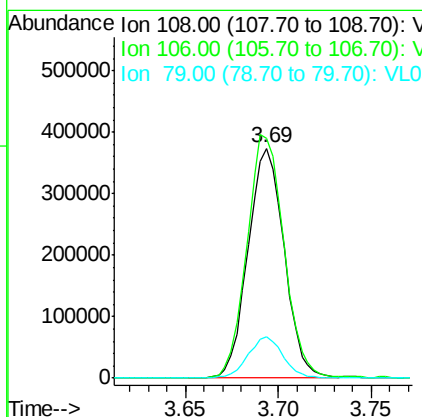
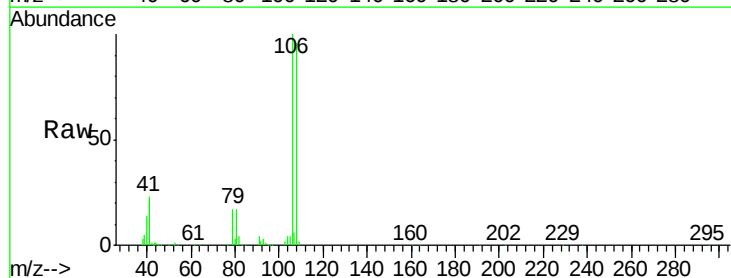
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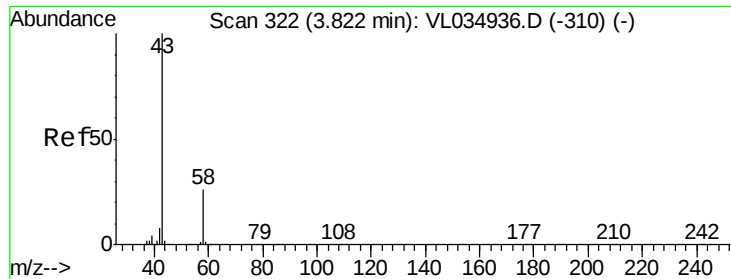
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#14
Bromoethene
Concen: 10.324 ppbv
RT: 3.69 min Scan# 282
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	108	Resp	510481
Ion Ratio	100	Lower	Upper
106	108.8	84.9	127.3
79	17.6	14.1	21.1





#15

Acetone

Concen: 8.839 ppbv

RT: 3.80 min Scan# 316

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tot Ion: 43 Resp: 1341867

Ion Ratio Lower Upper

43 100

58 26.7 21.7 32.5

Instrument :

MSVOA_L

ClientSampleId :

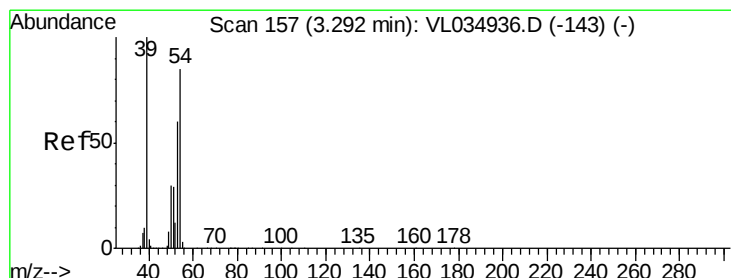
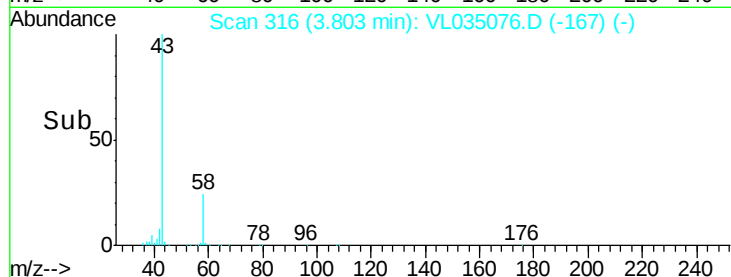
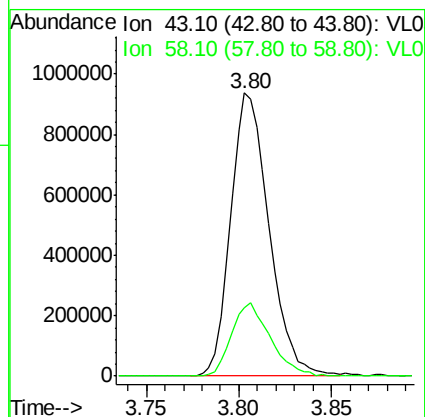
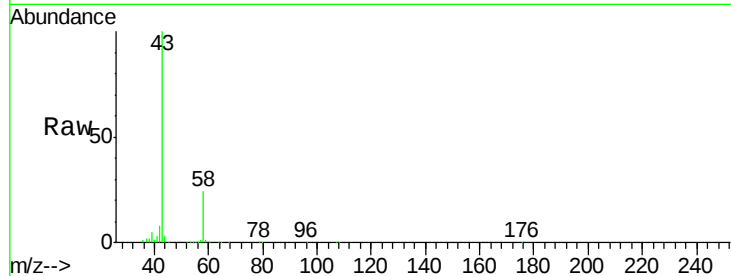
VSTDCCC010EC

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#16

1,3-Butadiene

Concen: 10.563 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.02 min

Lab File: VL035076.D

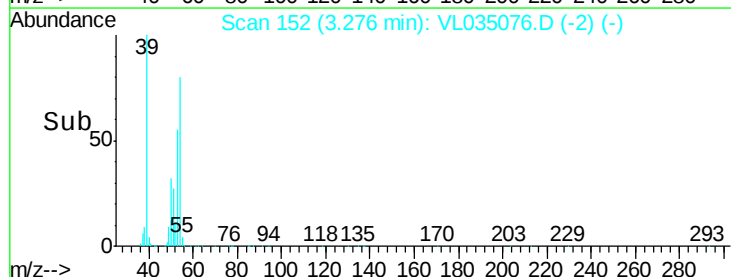
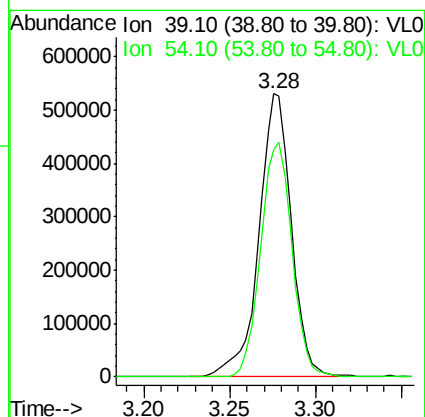
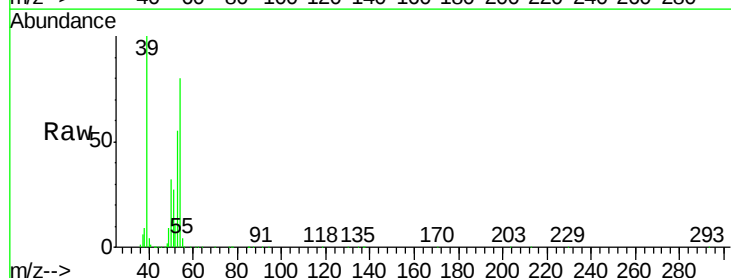
Acq: 20 May 2020 11:47

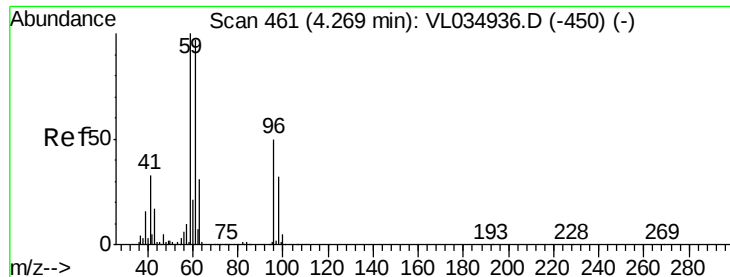
Tgt Ion: 39 Resp: 690082

Ion Ratio Lower Upper

39 100

54 81.0 66.6 100.0





#17

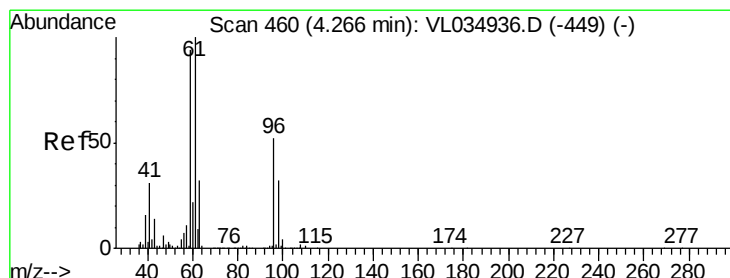
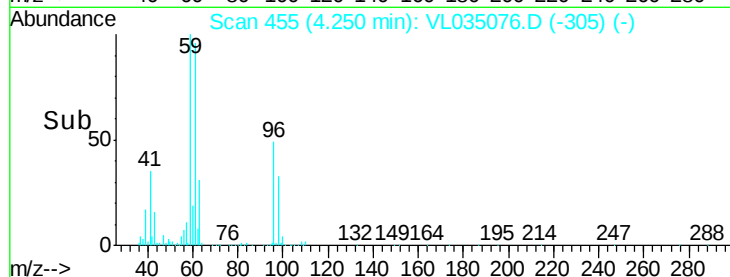
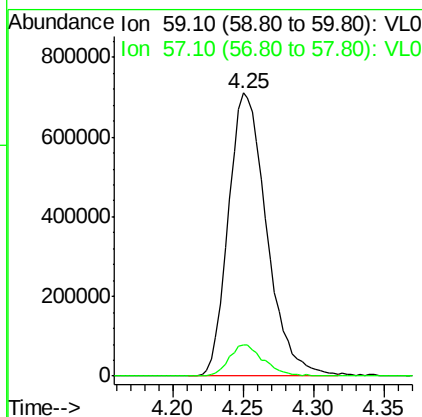
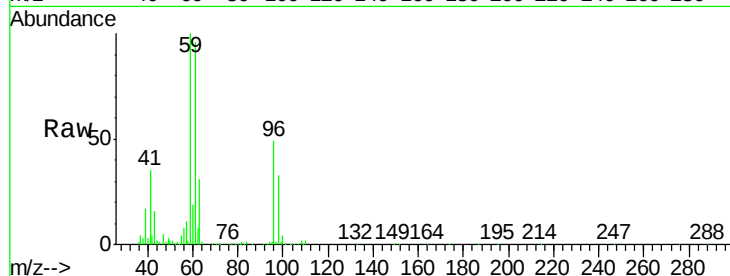
tert-Butyl alcohol
Concen: 9.987 ppbv
RT: 4.25 min Scan# 455
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1348962
Ion Ratio Lower Upper
59 100
57 10.3 8.7 13.1

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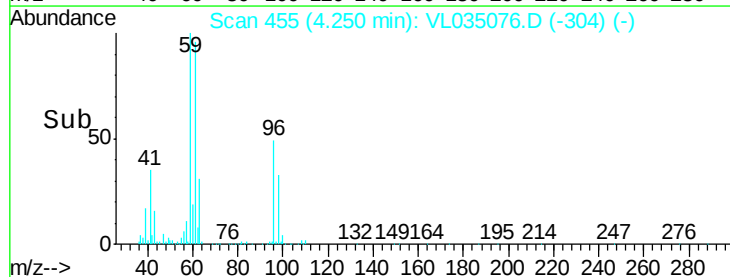
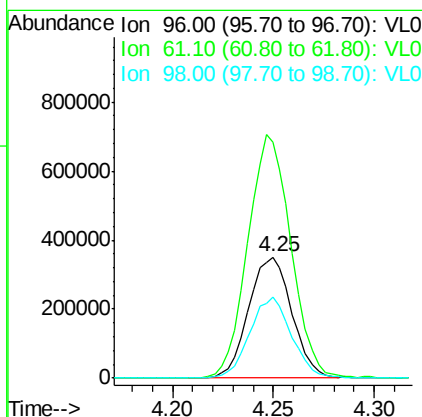
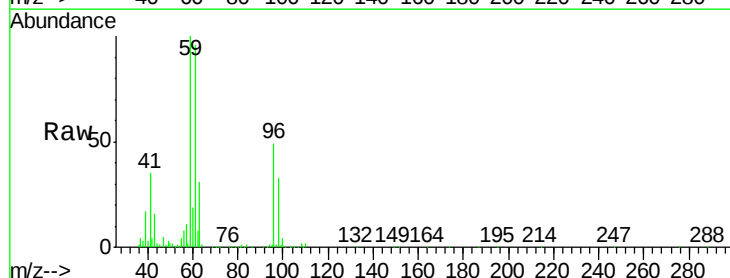
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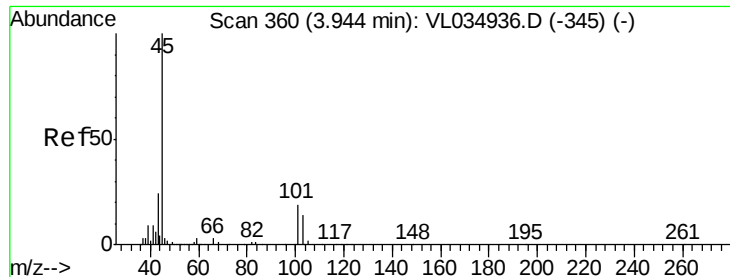


#18

1,1-Dichloroethene
Concen: 10.148 ppbv
RT: 4.25 min Scan# 455
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion: 96 Resp: 526796
Ion Ratio Lower Upper
96 100
61 194.6 152.4 228.6
98 67.2 48.8 73.2





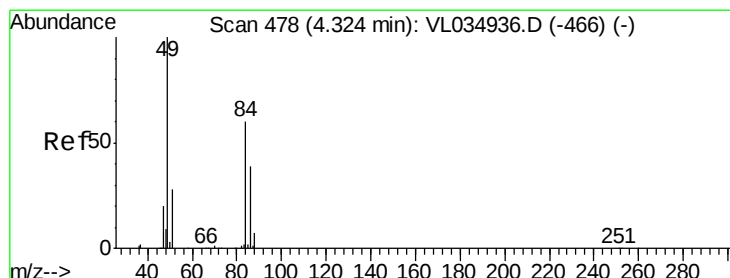
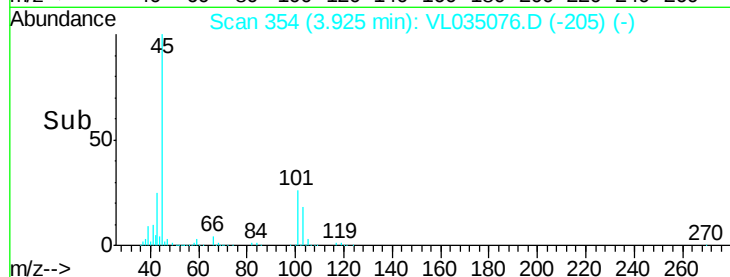
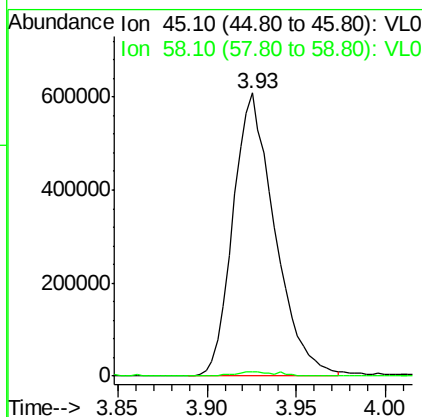
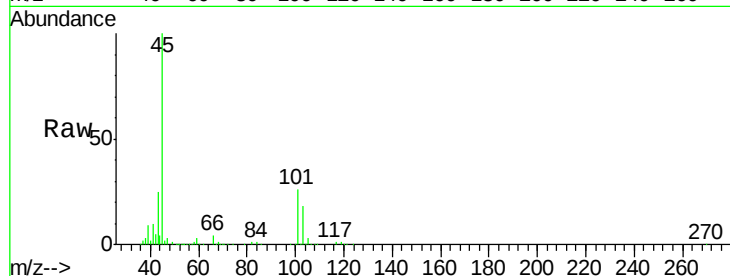
#19
Isopropyl Alcohol
Concen: 9.814 ppbv
RT: 3.93 min Scan# 354
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	993520
Ion Ratio	100	Lower	Upper
45	100		
58	1.7	1.7	2.5

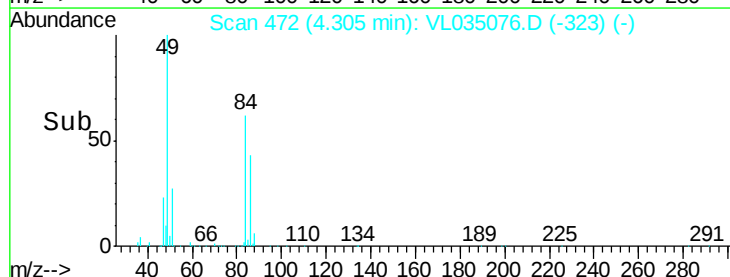
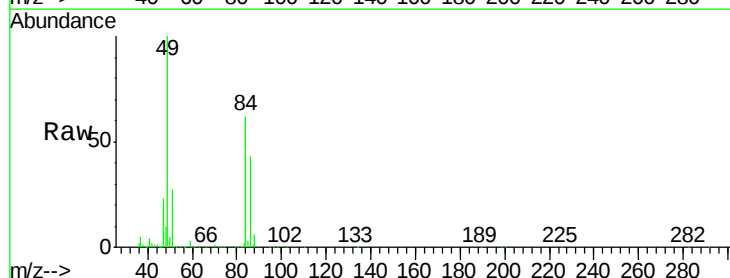
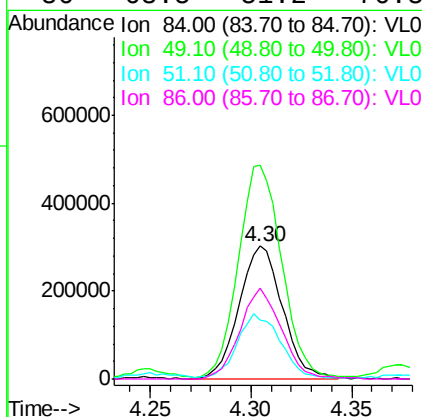
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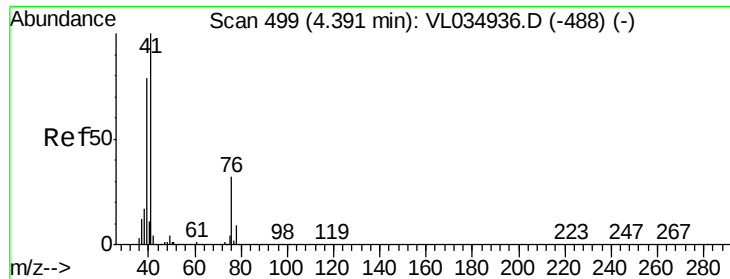
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#20
Methylene Chloride
Concen: 9.023 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	84	Resp	453452
Ion Ratio	100	Lower	Upper
84	100		
49	159.5	132.5	198.7
51	43.0	38.4	57.6
86	68.5	51.2	76.8





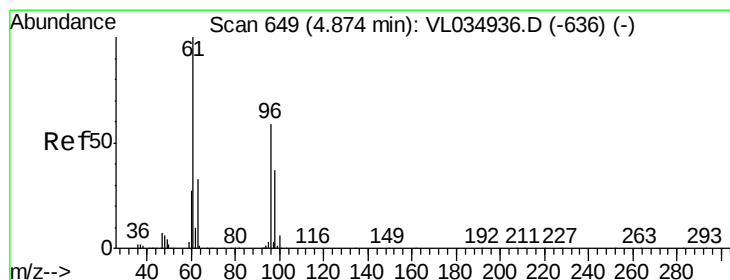
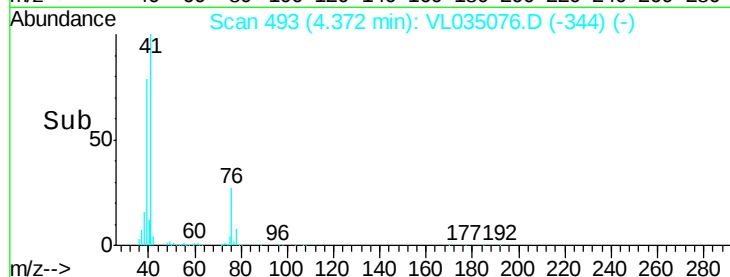
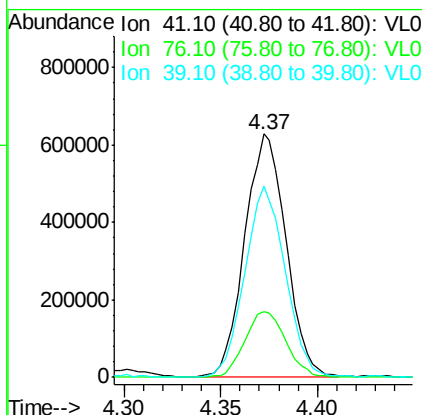
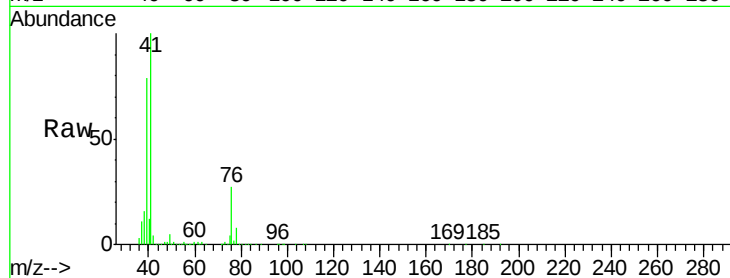
#21
Allvl Chloride
Concen: 10.776 ppbv
RT: 4.37 min Scan# 493
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.3	23.6	35.4
39	78.4	61.9	92.9

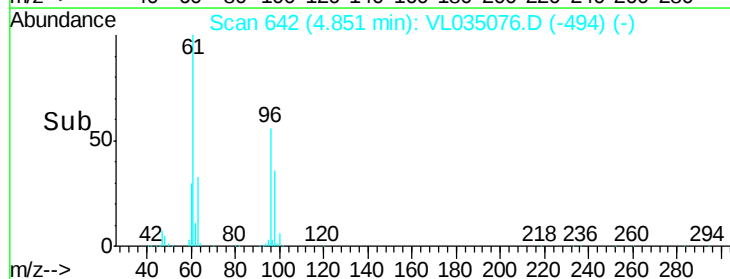
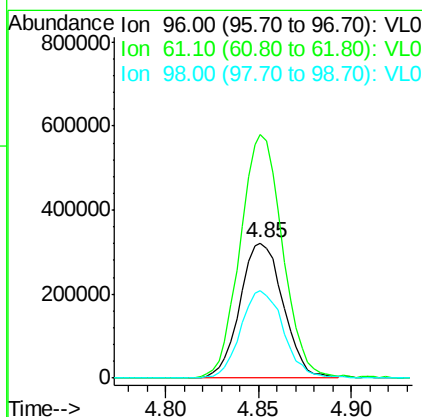
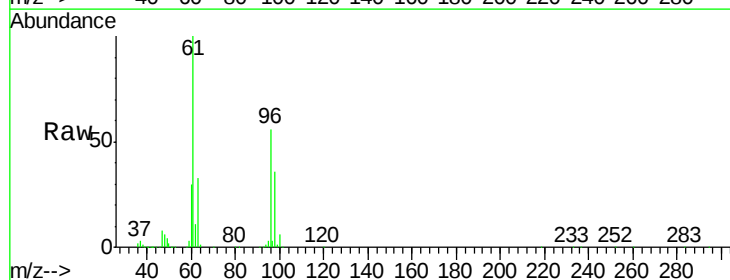
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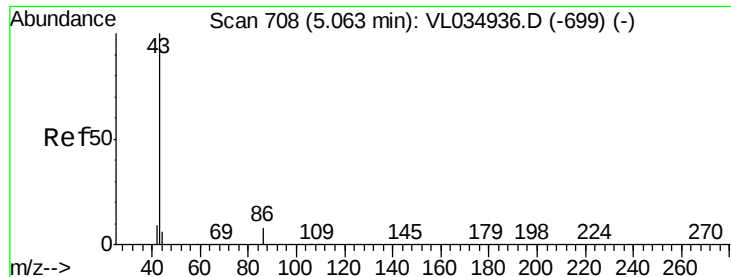
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#22
trans-1,2-Dichloroethene
Concen: 10.135 ppbv
RT: 4.85 min Scan# 642
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.9	135.3	202.9
98	64.5	50.4	75.6





#23

Vinyl Acetate

Concen: 11.130 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2142565

Ion Ratio Lower Upper

43 100

86 7.2 5.5 8.3

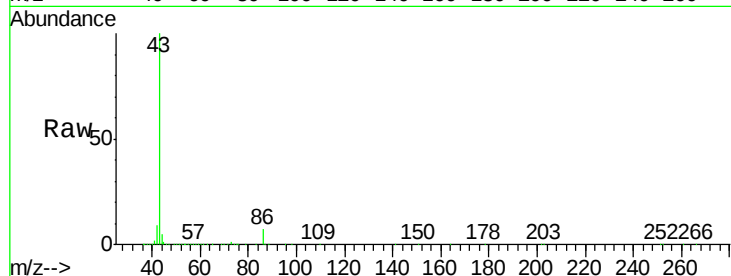
42 9.0 8.0 12.0

44 5.2 4.5 6.7

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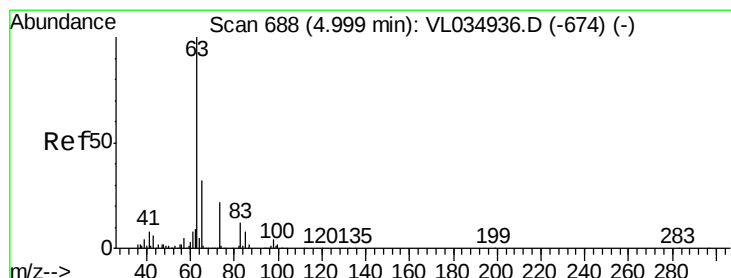
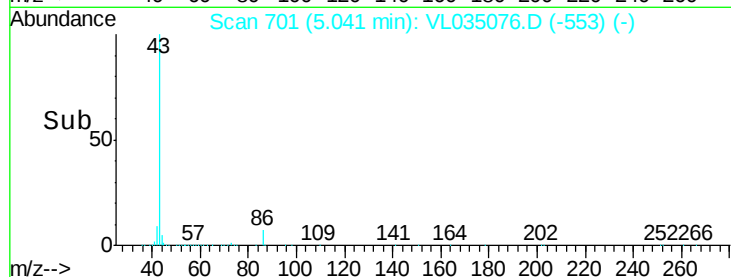
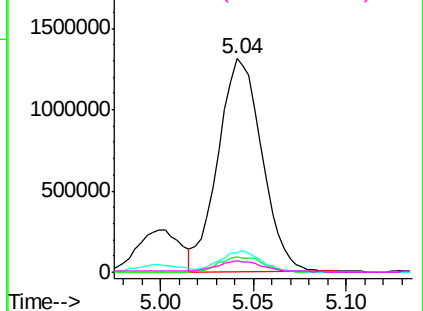


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.746 ppbv

RT: 4.98 min Scan# 682

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

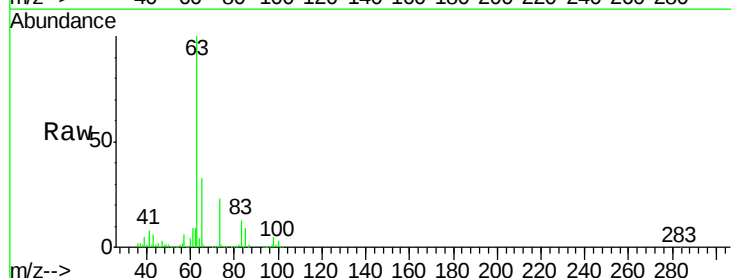
Tgt Ion: 63 Resp: 1445138

Ion Ratio Lower Upper

63 100

98 5.1 2.0 6.0

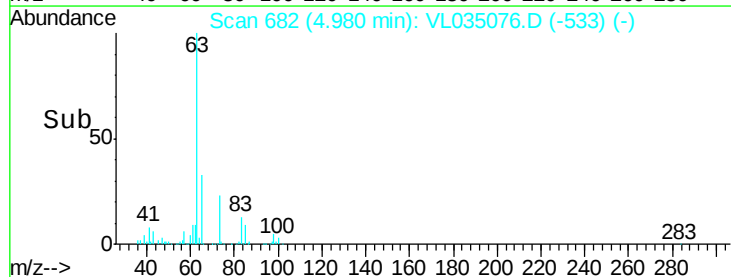
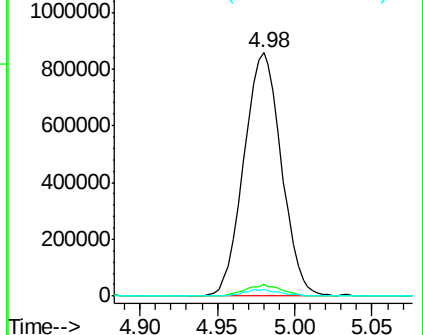
100 2.7 1.1 3.5

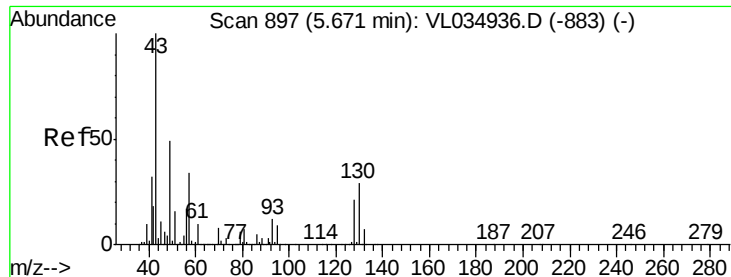


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.655 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2717077

Ion Ratio Lower Upper

43 100

45 10.2 8.1 12.1

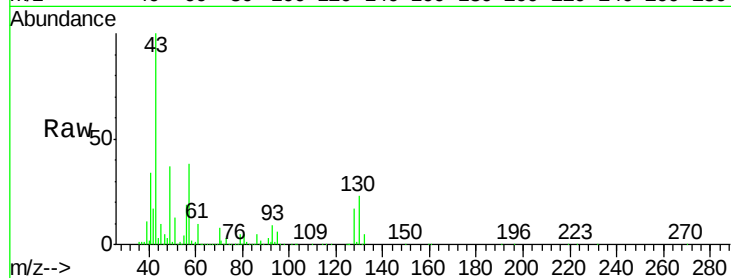
61 9.6 7.8 11.8

70 7.4 6.0 9.0

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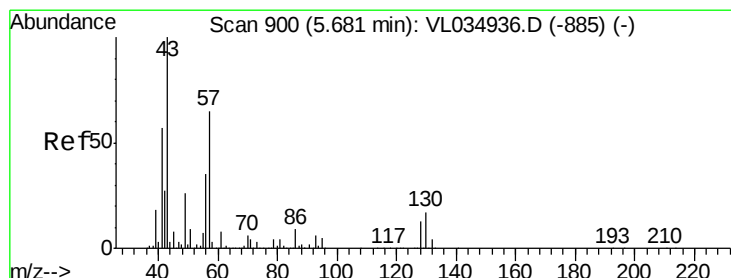
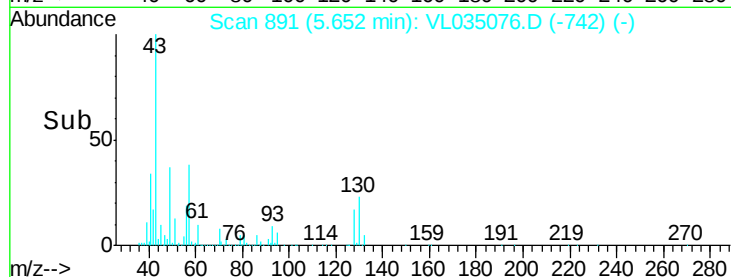
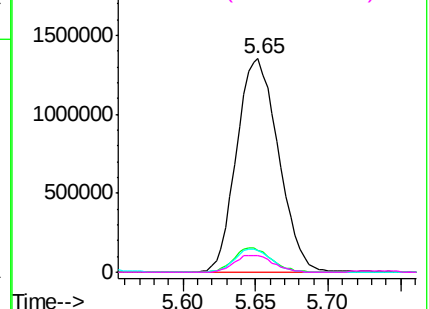
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.652 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tgt Ion: 57 Resp: 1177608

Ion Ratio Lower Upper

57 100

41 91.2 72.7 109.1

43 232.3 182.1 273.1

56 52.8 42.2 63.2

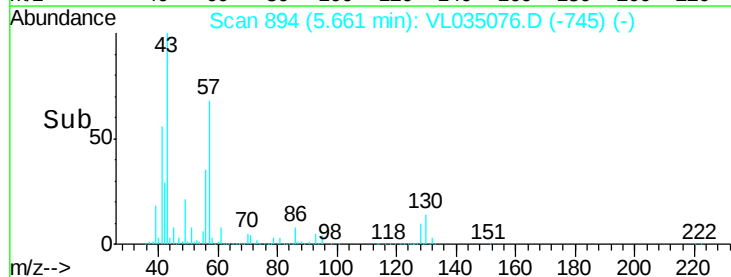
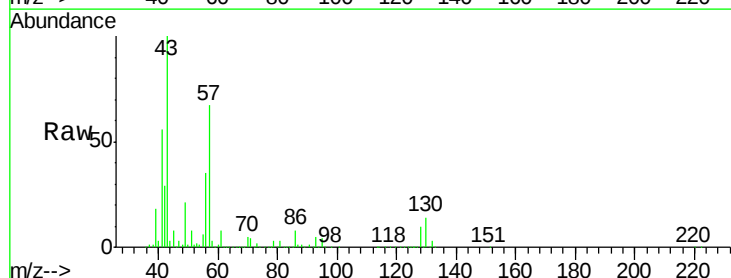
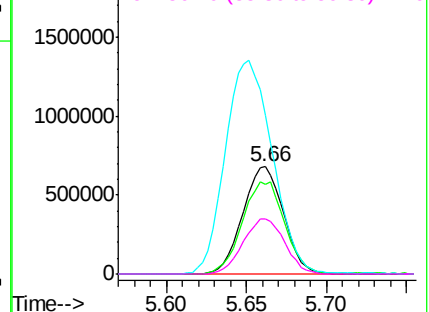
Abundance

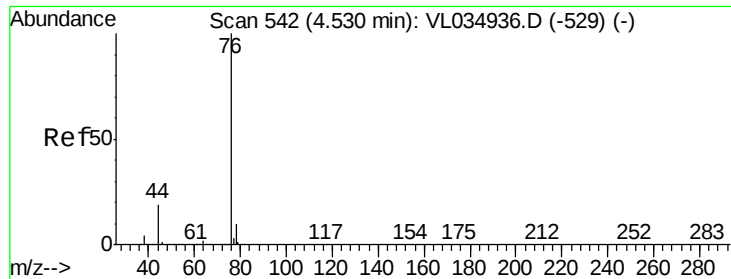
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





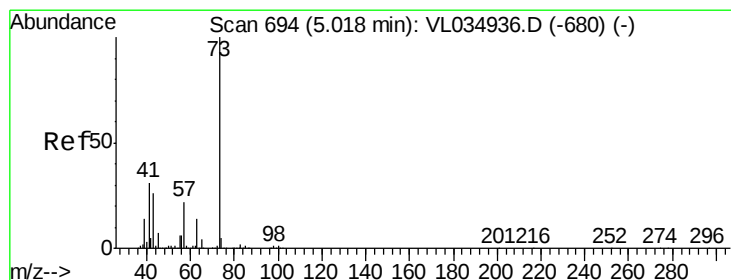
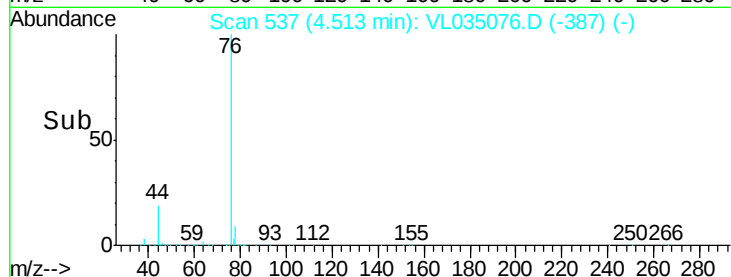
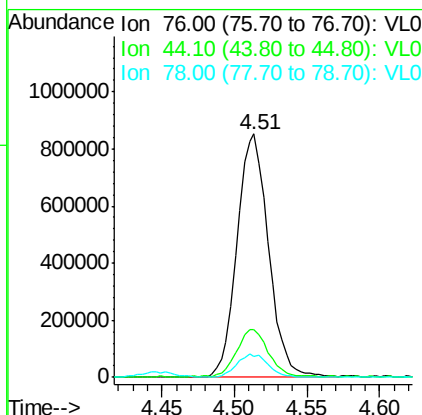
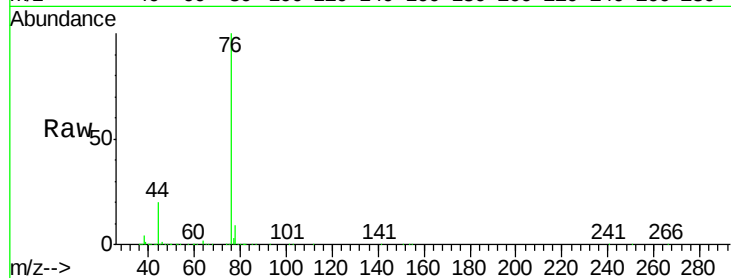
#27
Carbon Disulfide
Concen: 9.881 ppbv
RT: 4.51 min Scan# 537
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.6	15.2	22.8
78	9.6	7.7	11.5

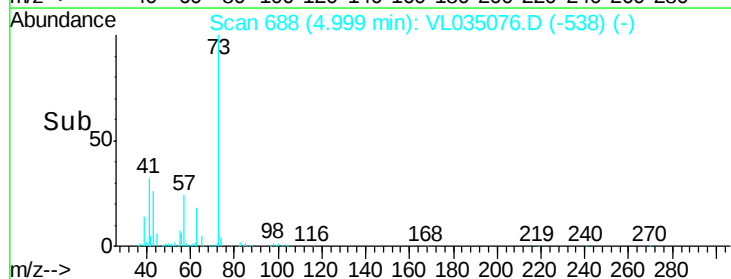
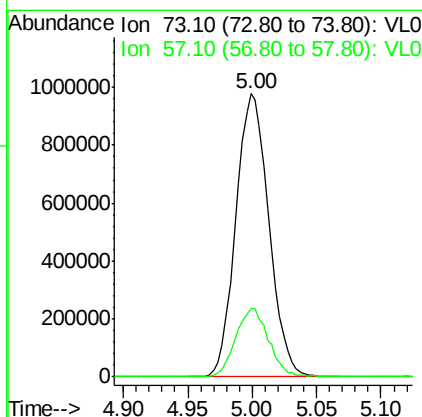
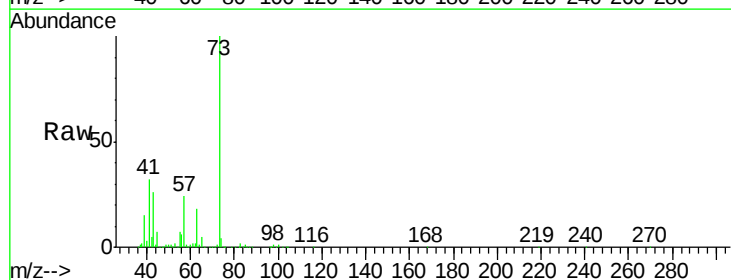
Manual Integrations
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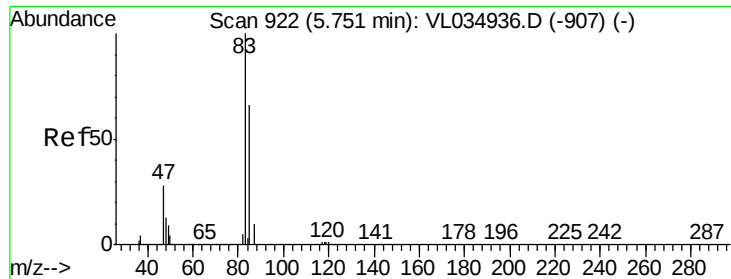
MMDadoda
5/20/2020 4:28:51 PM



#28
Methyl tert-Butyl Ether
Concen: 10.351 ppbv
RT: 5.00 min Scan# 688
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.1	18.3	27.5





#29

Chloroform

Concen: 9.538 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1725167

Ion Ratio Lower Upper

83 100

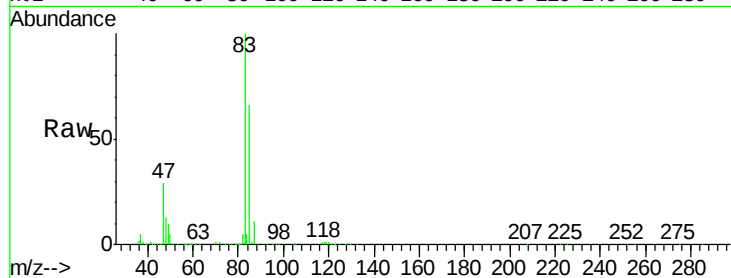
85 65.6 53.0 79.6

Manual Integrations

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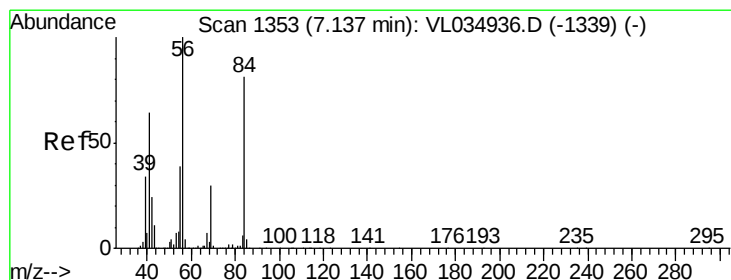
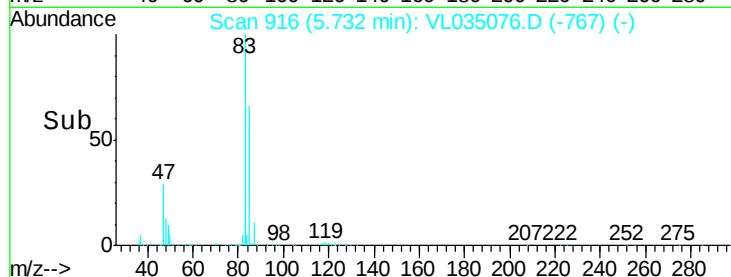
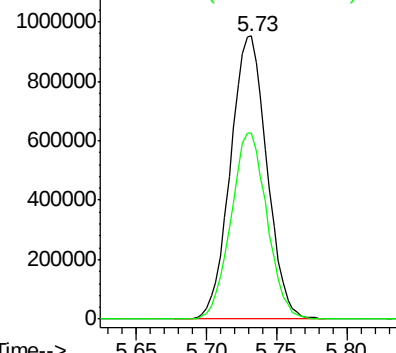
MMDadoda

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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: 11.511 ppbv

RT: 7.11 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

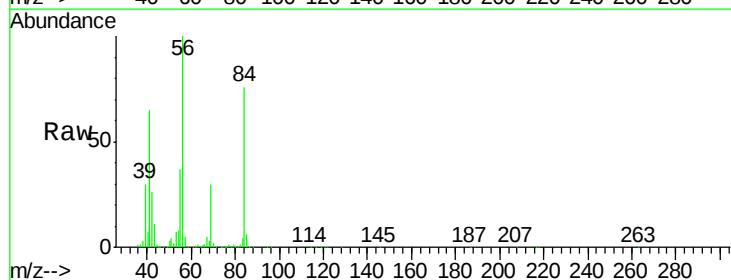
Tgt Ion: 84 Resp: 982012

Ion Ratio Lower Upper

84 100

56 139.8 111.4 167.2

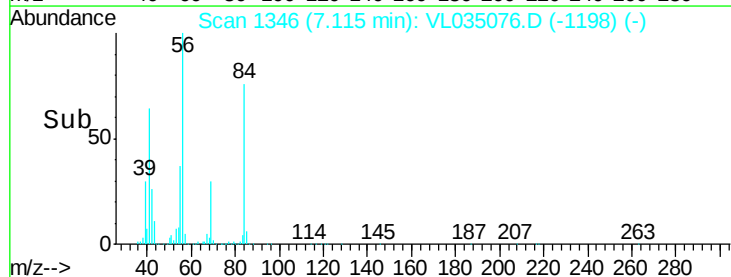
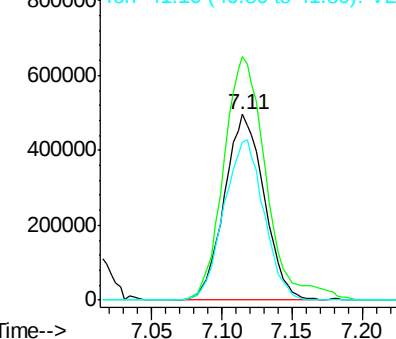
41 86.4 66.7 100.1

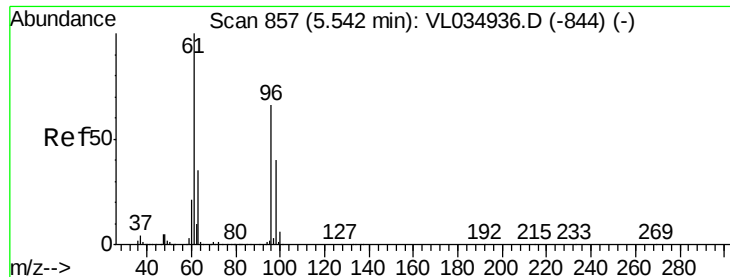


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

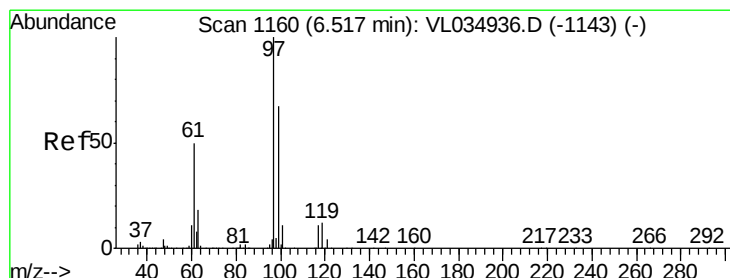
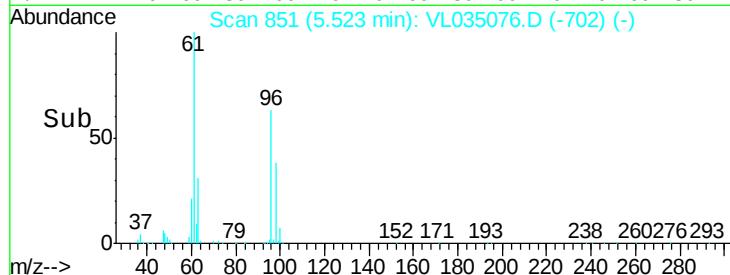
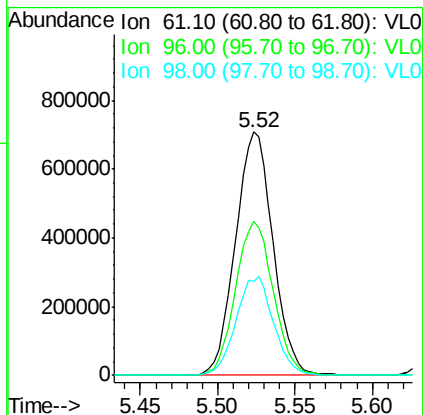
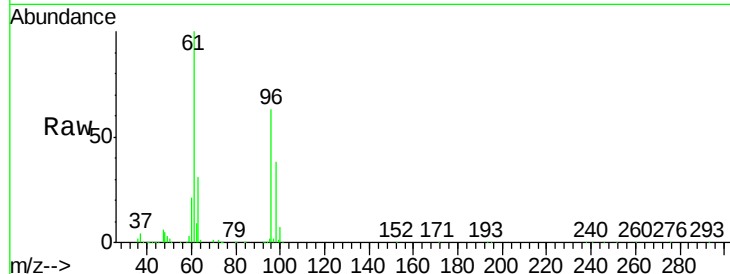
cis-1,2-Dichloroethene
 Concen: 11.069 ppbv
 RT: 5.52 min Scan# 851
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.2	53.0	79.6
98	38.4	32.2	48.2

Manual Integrations
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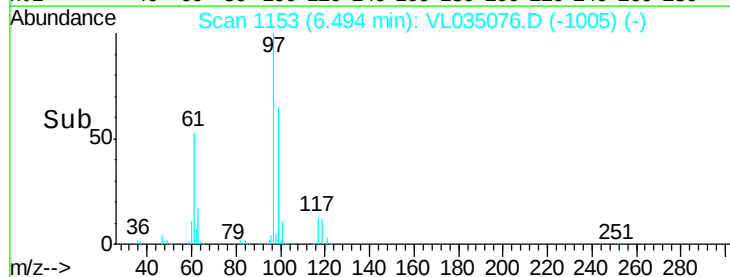
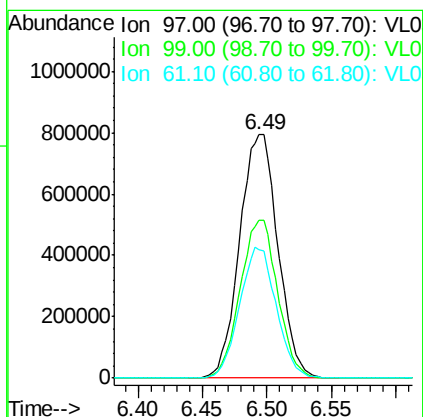
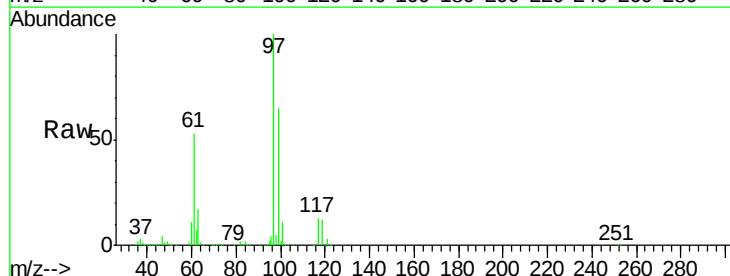
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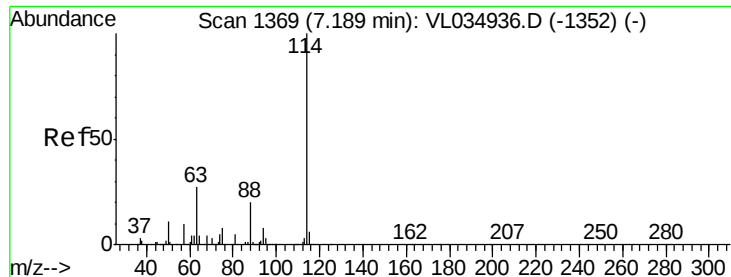


#32

1,1,1-Trichloroethane
 Concen: 10.037 ppbv
 RT: 6.49 min Scan# 1153
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	52.1	78.1
61	51.6	41.8	62.8





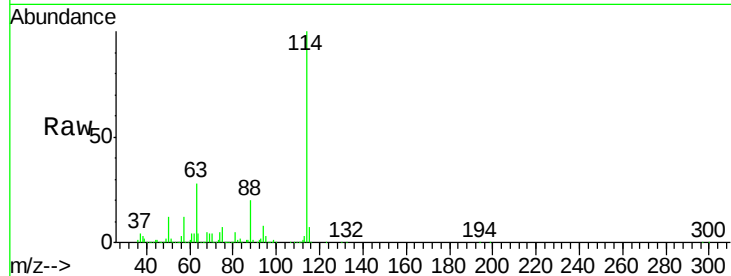
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

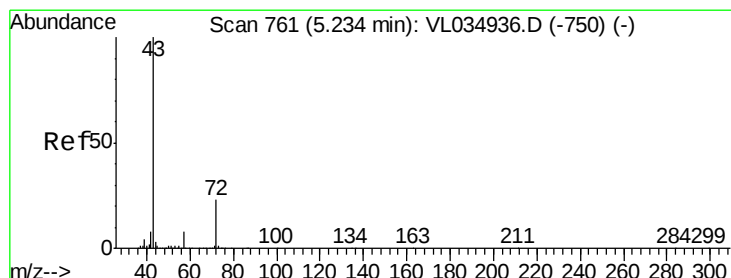
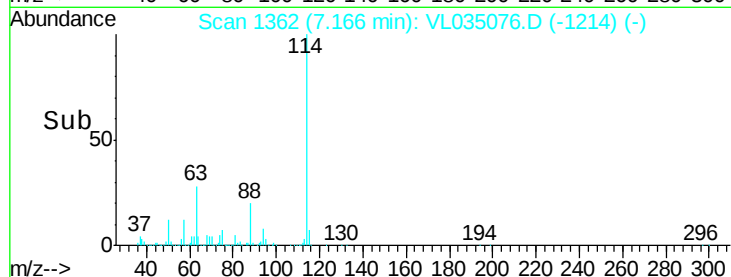
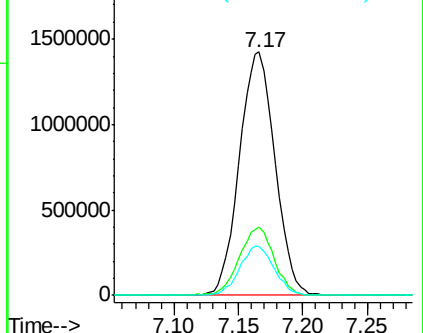
Tot Ion:114 Resp: 2737631
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.2 33.4
 88 19.6 15.5 23.3

Manual Integrations
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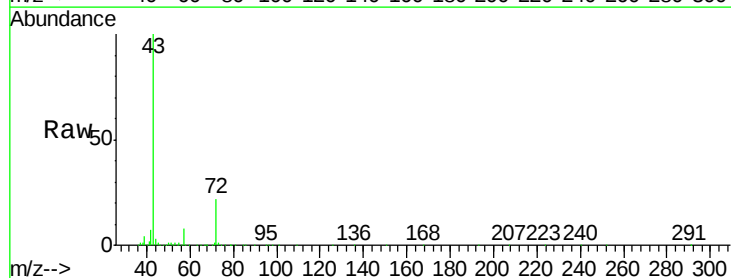


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

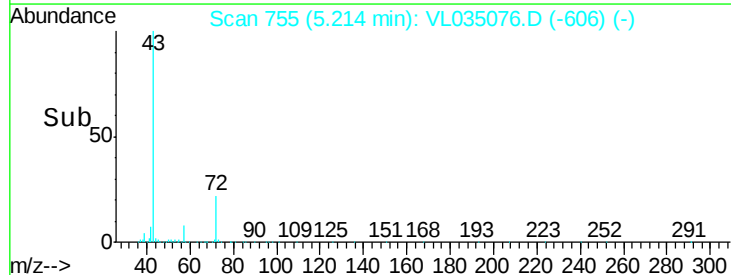
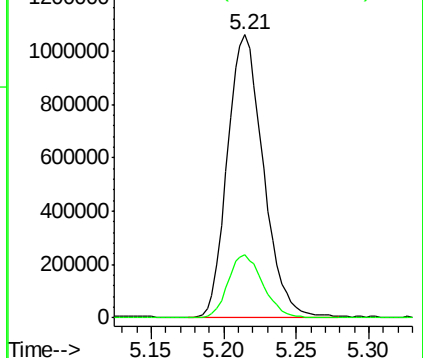


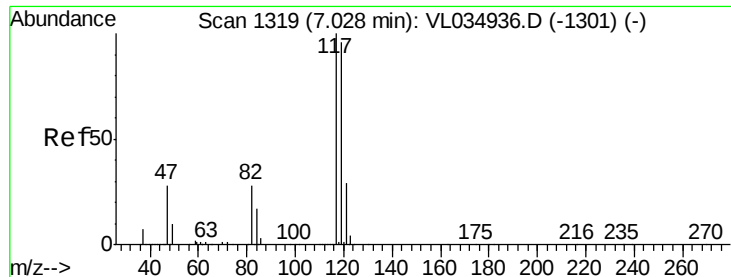
#34
 2-Butanone
 Concen: 10.682 ppbv
 RT: 5.21 min Scan# 755
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion: 43 Resp: 1817584
 Ion Ratio Lower Upper
 43 100
 72 21.8 18.0 27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





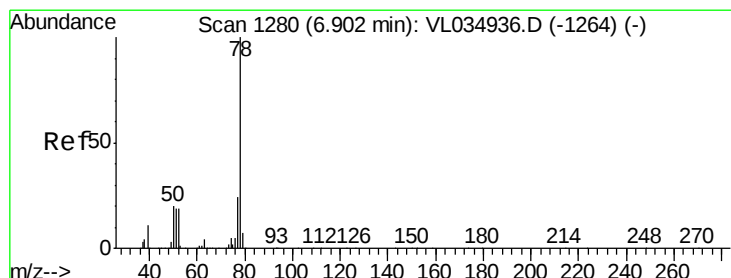
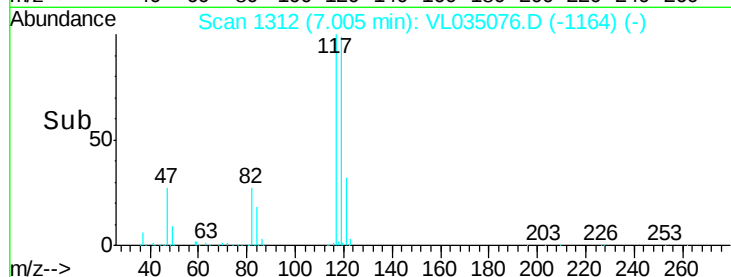
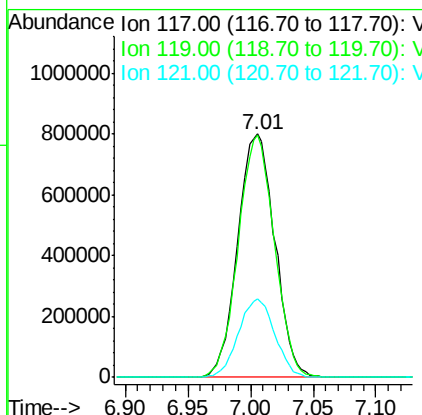
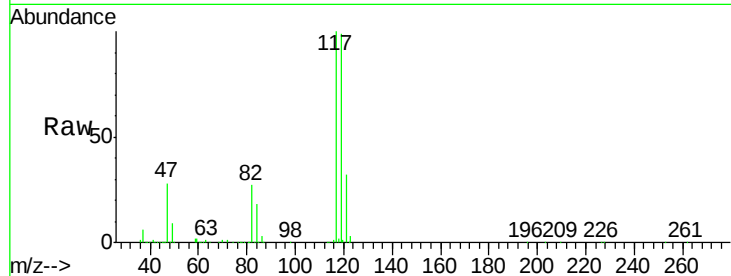
#35
Carbon Tetrachloride
Concen: 9.522 ppbv
RT: 7.01 min Scan# 1312
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	99.4	77.0	115.6
121	32.5	23.0	34.6

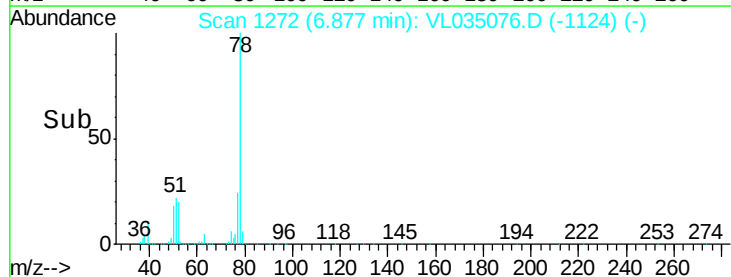
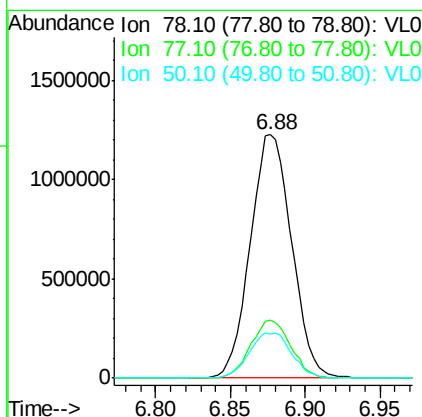
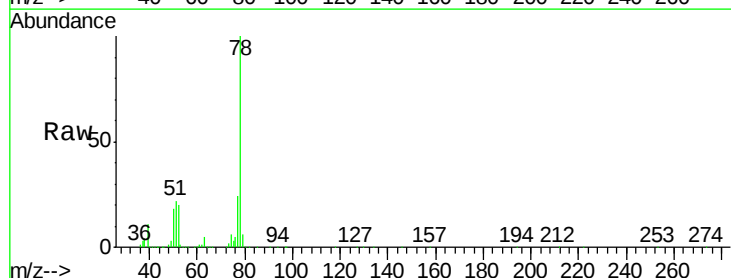
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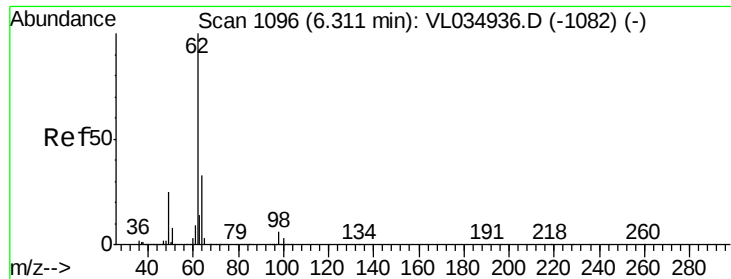
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#36
Benzene
Concen: 10.451 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.6
50	18.3	15.8	23.8





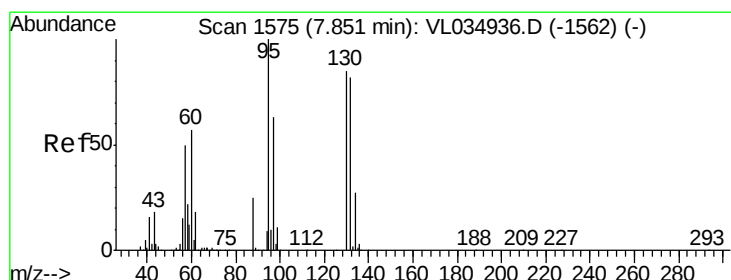
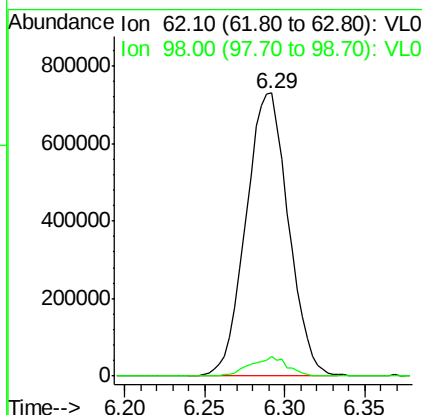
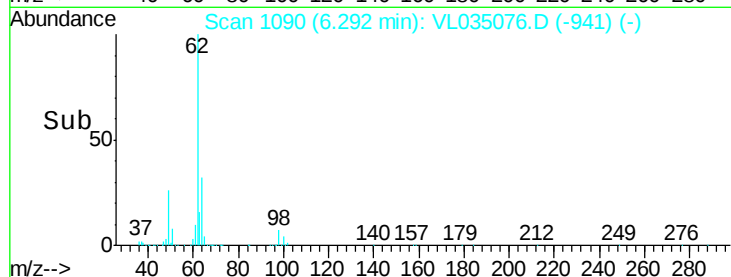
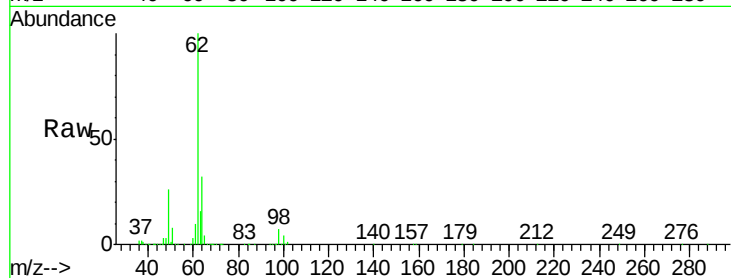
#37
 1,2-Dichloroethane
 Concen: 9.561 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1331133
 Ion Ratio Lower Upper
 62 100
 98 6.4 4.8 7.2

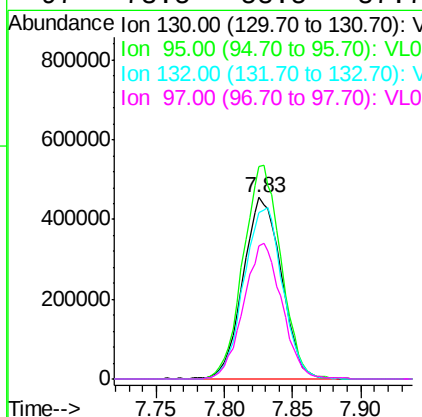
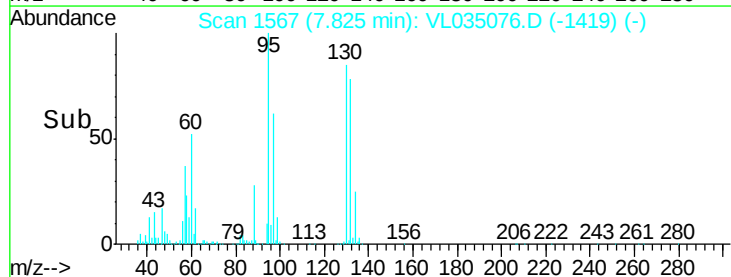
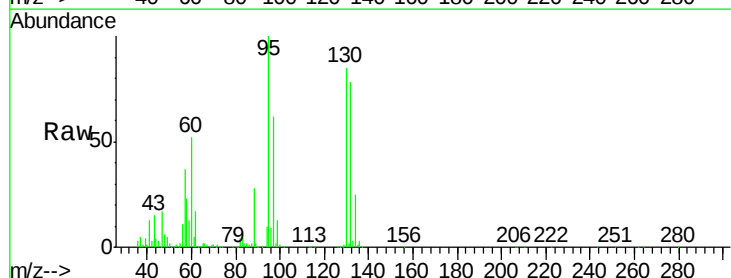
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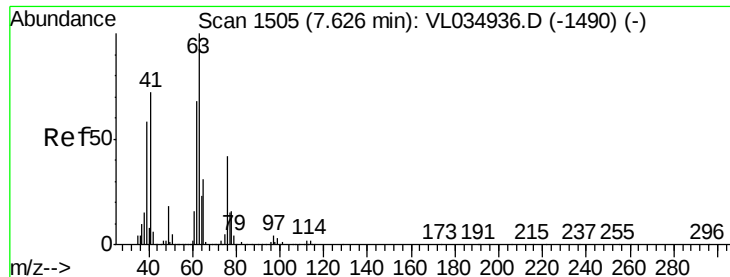
MMDadoda
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#38
 Trichloroethene
 Concen: 10.126 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion:130 Resp: 885384
 Ion Ratio Lower Upper
 130 100
 95 117.6 93.4 140.0
 132 91.9 76.4 114.6
 97 73.5 58.5 87.7





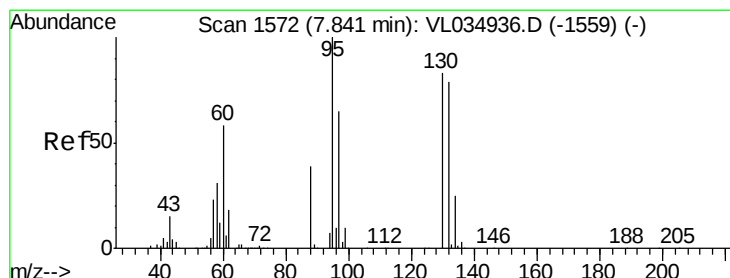
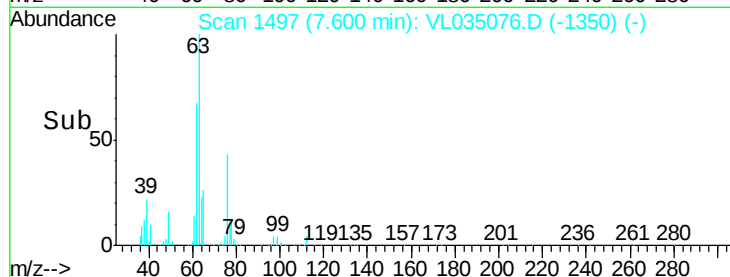
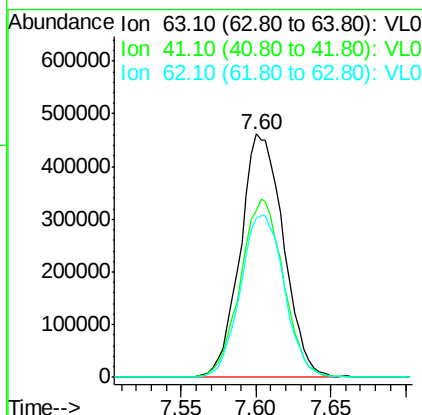
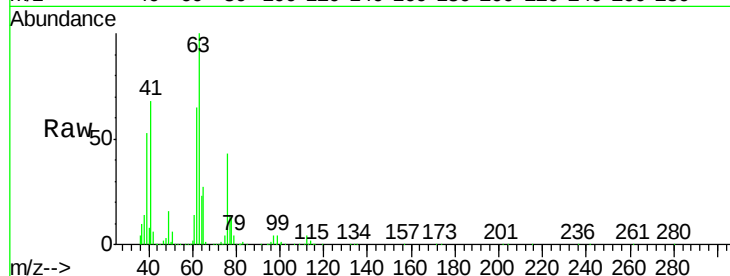
#39
 1,2-Dichloropropane
 Concen: 10.254 ppbv
 RT: 7.60 min Scan# 1497
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	68.3	57.8	86.8
62	65.2	54.2	81.2

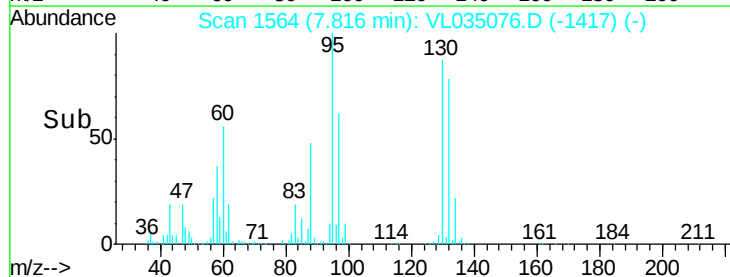
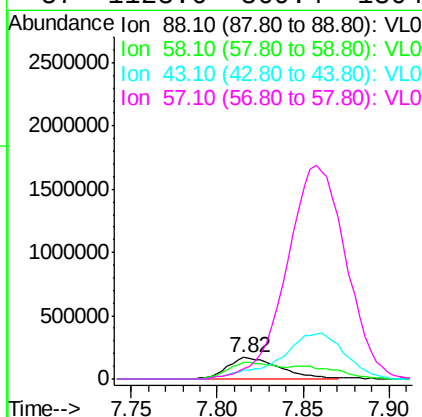
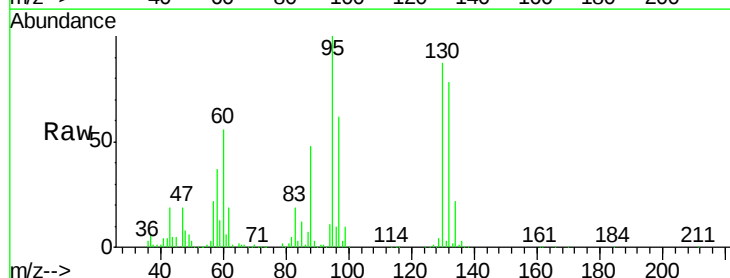
Manual Integrations
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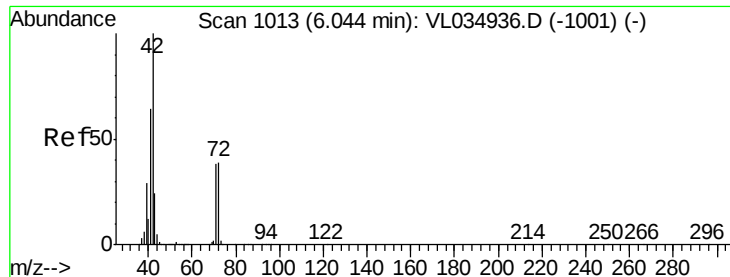
MMDadoda
 5/20/2020 4:28:51 PM



#40
 1,4-Dioxane
 Concen: 9.765 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.9	105.1	157.7
43	265.9	202.6	303.8
57	1128.6	869.4	1304.0





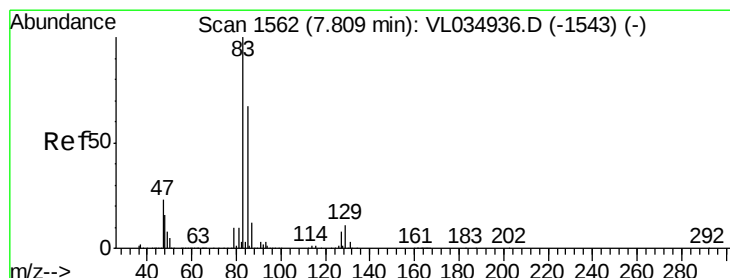
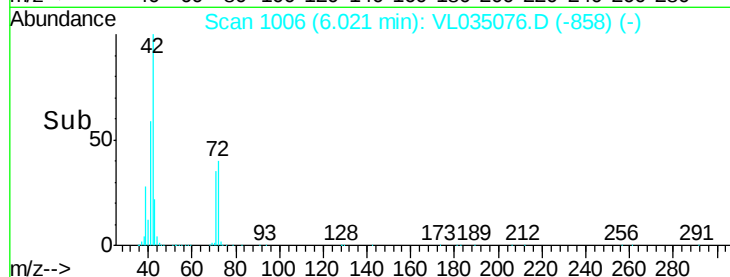
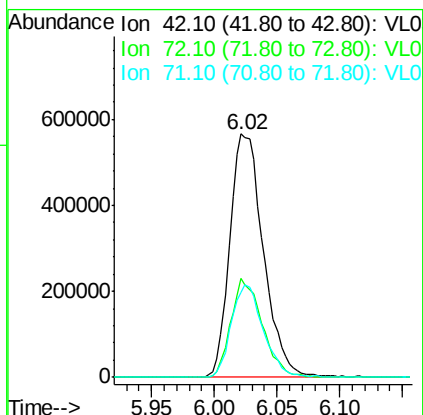
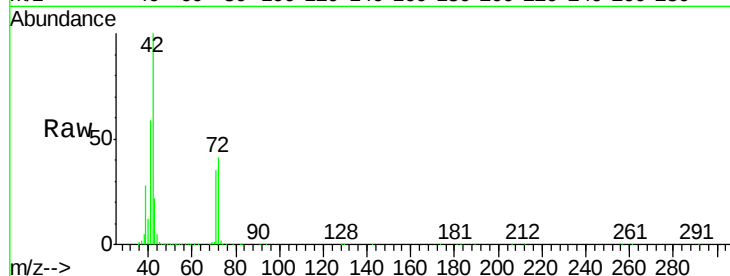
#41
Tetrahydrofuran
Concen: 11.770 ppbv
RT: 6.02 min Scan# 1006
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	31.4	47.0
71	36.4	29.8	44.8

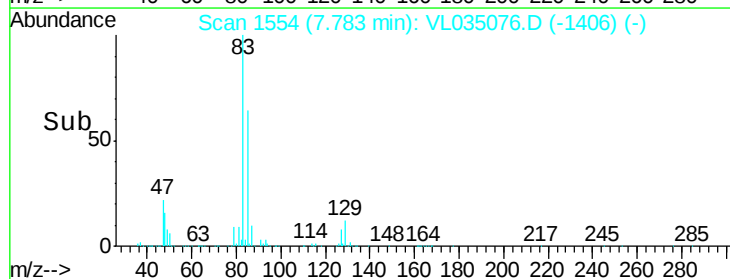
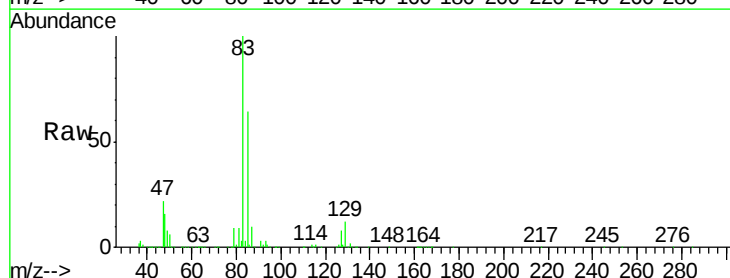
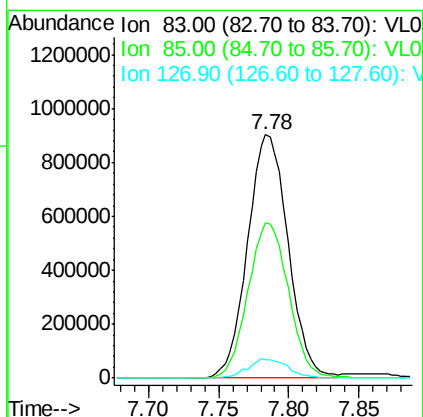
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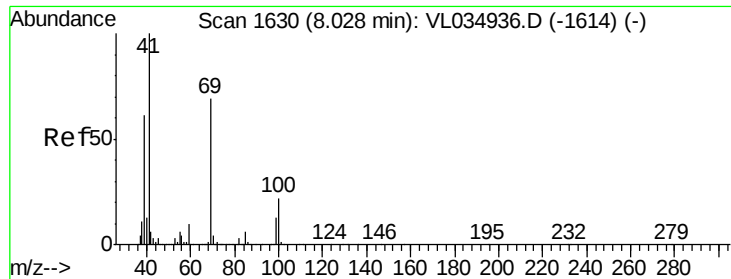
MMDadoda
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#42
Bromodichloromethane
Concen: 9.654 ppbv
RT: 7.78 min Scan# 1554
Delta R.T. -0.03 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.4	80.0
127	7.7	6.1	9.1





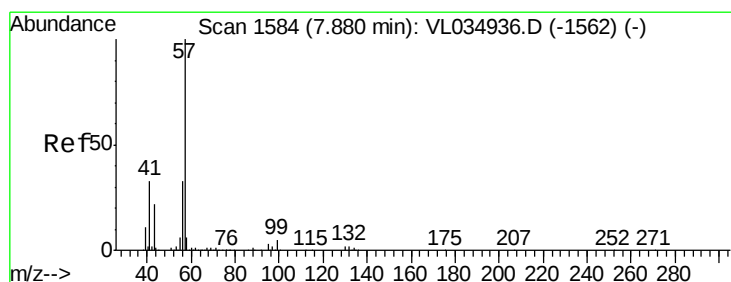
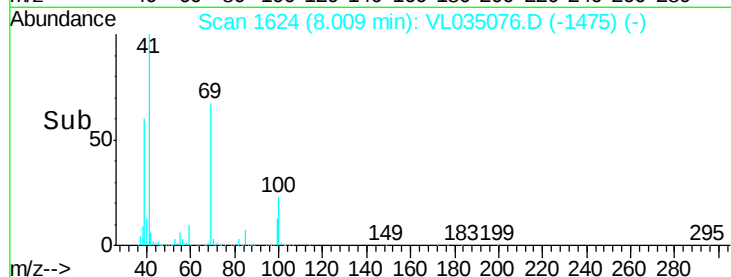
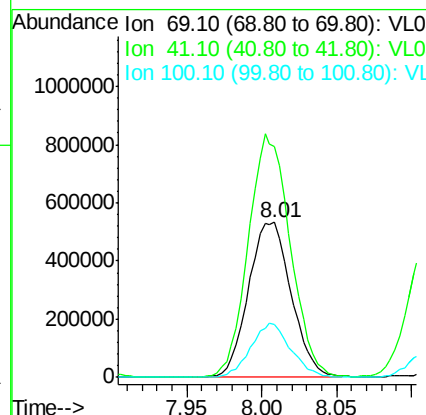
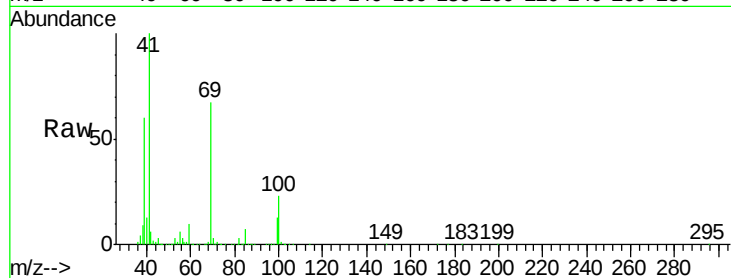
#43
Methvl Methacrilate
Concen: 11.127 ppbv
RT: 8.01 min Scan# 1624
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1060449
Ion Ratio Lower Upper
69 100
41 153.8 119.8 179.6
100 32.6 25.0 37.6

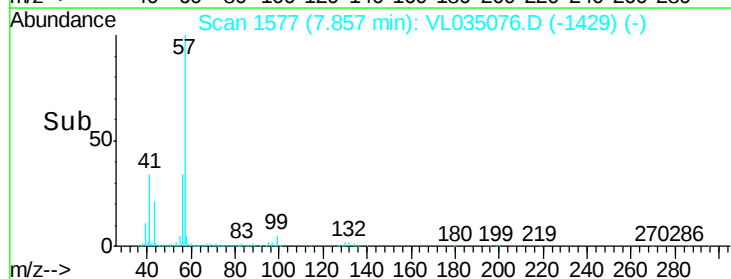
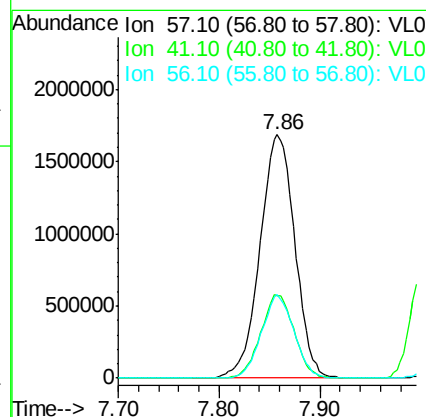
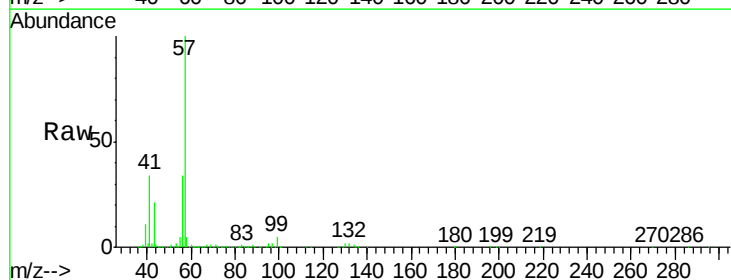
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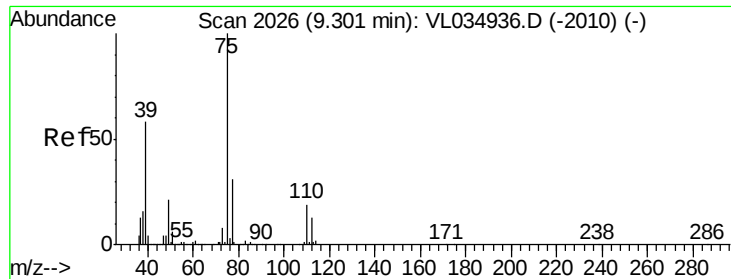
MMDadoda
5/20/2020 4:28:51 PM



#44
2,2,4-Trimethylpentane
Concen: 10.082 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion: 57 Resp: 4045542
Ion Ratio Lower Upper
57 100
41 32.8 26.4 39.6
56 32.1 25.5 38.3





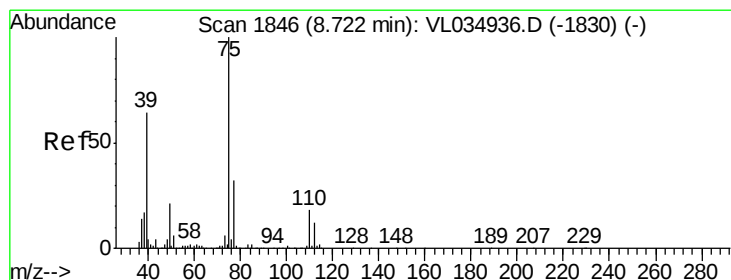
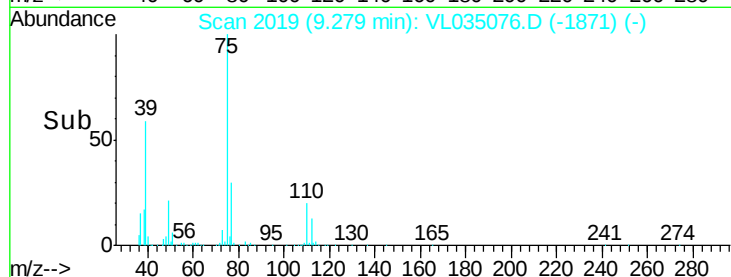
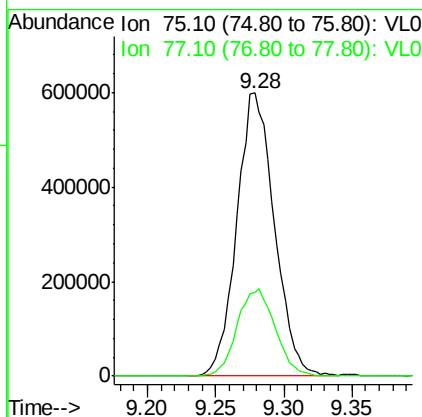
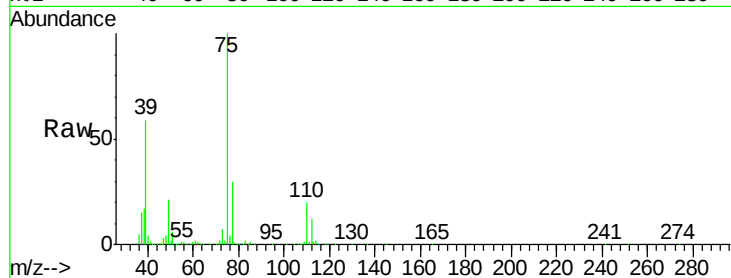
#45
t-1,3-Dichloropropene
Concen: 11.939 ppbv
RT: 9.28 min Scan# 2019
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1148346
Ion Ratio Lower Upper
75 100
77 29.7 24.9 37.3

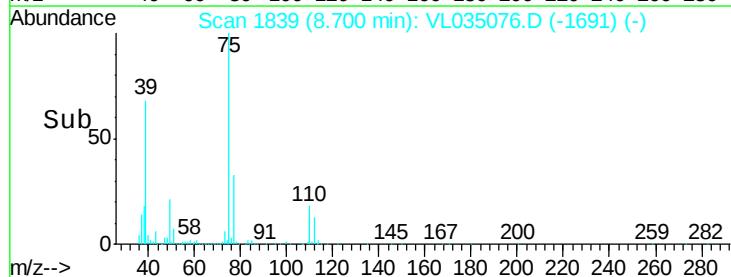
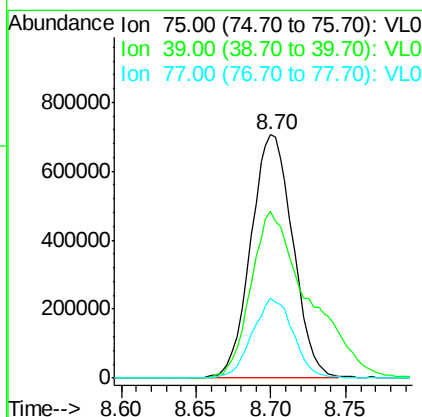
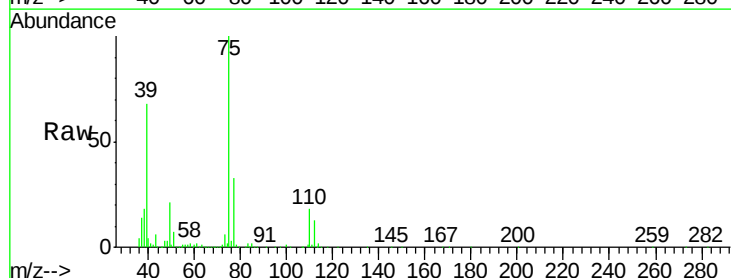
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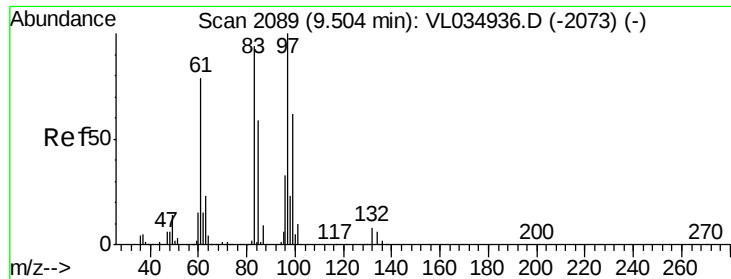
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 11.641 ppbv
RT: 8.70 min Scan# 1839
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion: 75 Resp: 1374598
Ion Ratio Lower Upper
75 100
39 68.3 51.5 77.3
77 32.8 25.5 38.3





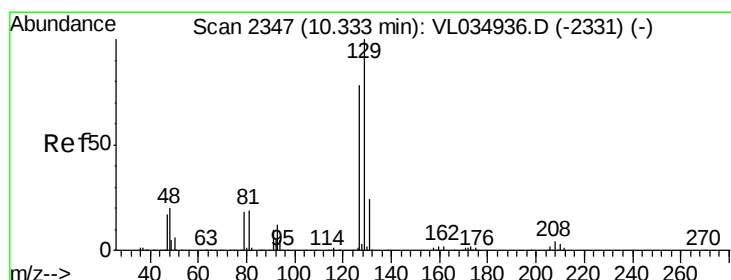
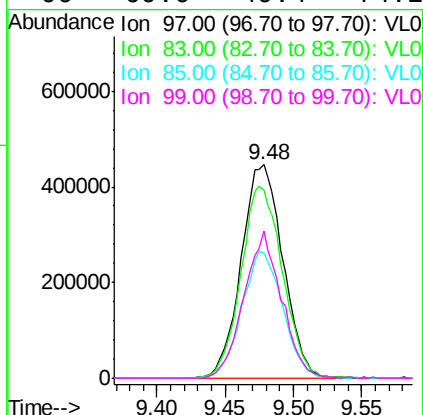
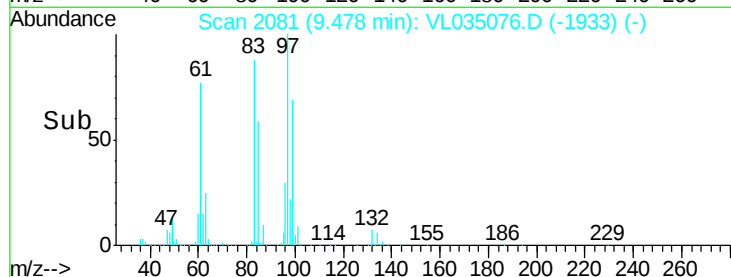
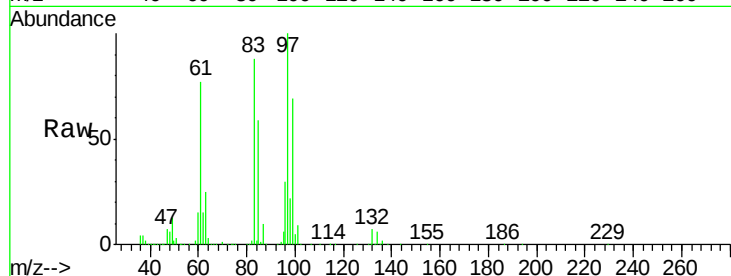
#47
 1,1,2-Trichloroethane
 Concen: 9.923 ppbv
 RT: 9.48 min Scan# 2081
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	97	Resp	947427
Ion Ratio	Lower	Upper	
97	100		
83	88.0	75.6	113.4
85	58.6	47.0	70.6
99	69.0	49.4	74.2

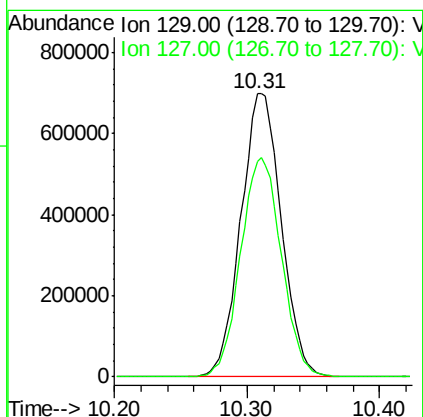
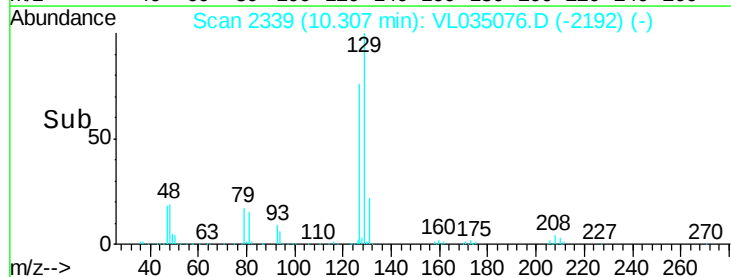
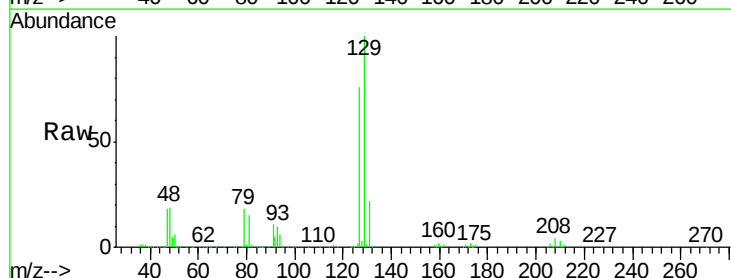
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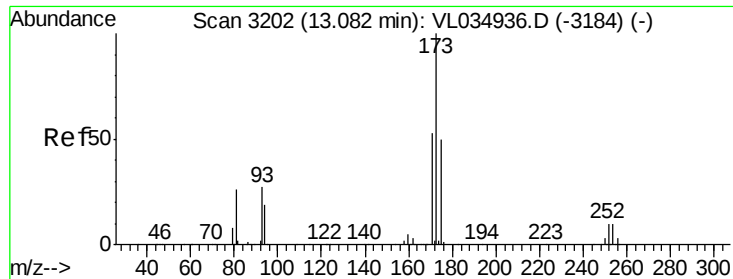
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#48
 Dibromochloromethane
 Concen: 10.082 ppbv
 RT: 10.31 min Scan# 2339
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion	129	Resp	1480314
Ion Ratio	Lower	Upper	
129	100		
127	77.9	39.1	117.2





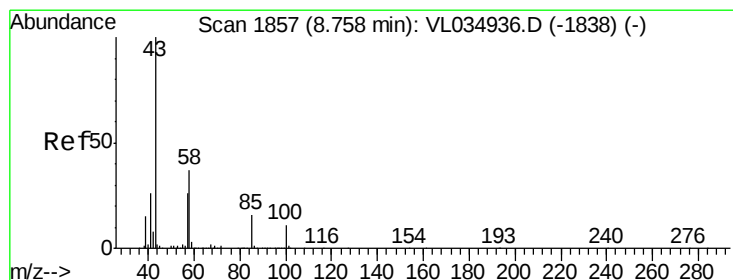
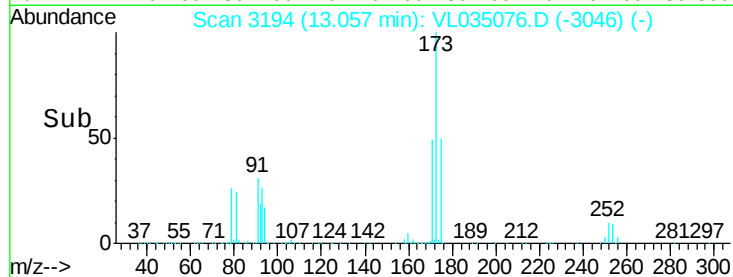
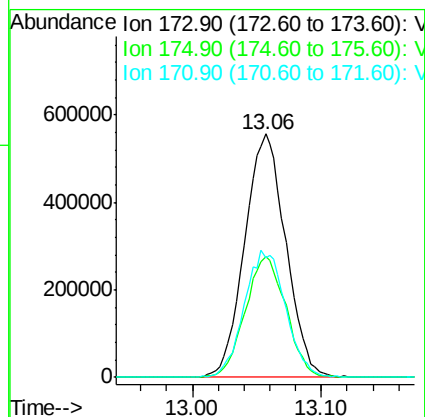
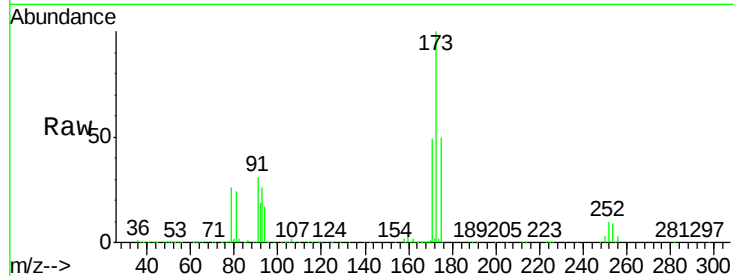
#49
Bromoform
Concen: 9.771 ppbv
RT: 13.06 min Scan# 3194
Delta R.T. -0.03 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	39.0	58.6
171	52.5	41.4	62.2

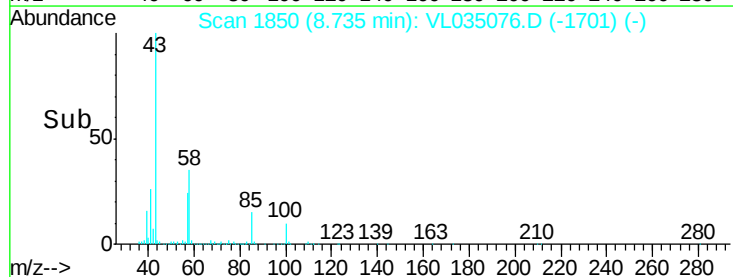
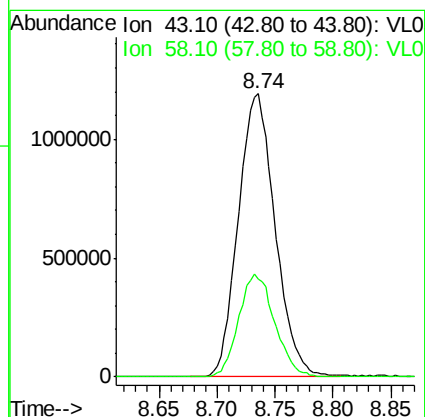
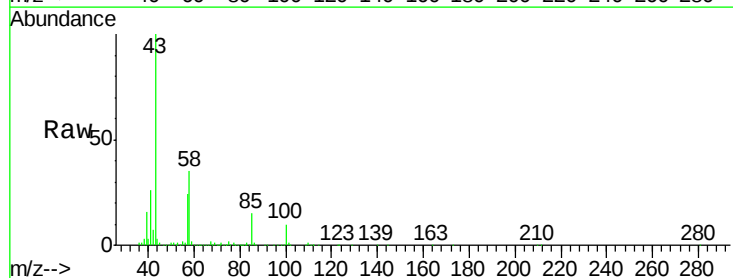
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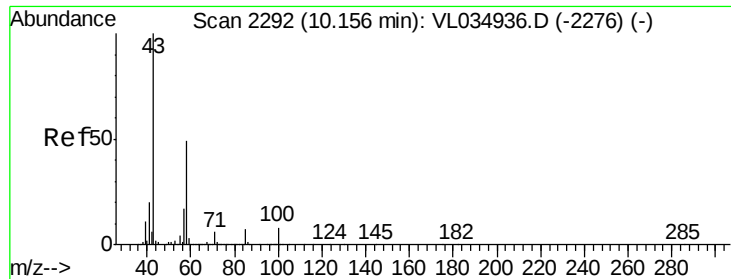
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.812 ppbv
RT: 8.74 min Scan# 1850
Delta R.T. -0.02 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.1	43.7





#51

2-Hexanone

Concen: 11.357 ppbv

RT: 10.13 min Scan# 2284

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2155218

Ion Ratio Lower Upper

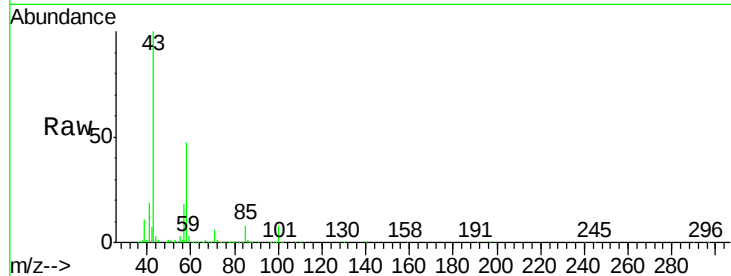
43 100

58 47.4 39.1 58.7

98 0.3 0.3 0.5

Manual Integrations
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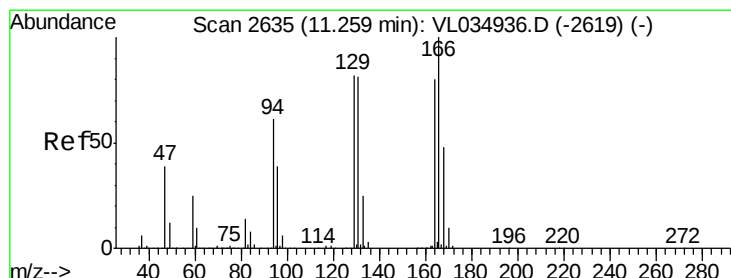
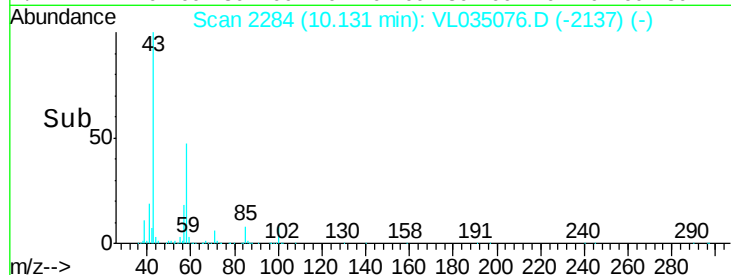
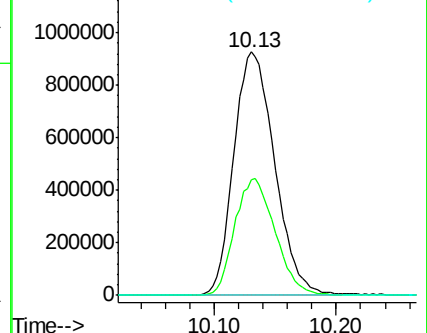


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.057 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tgt Ion: 164 Resp: 807107

Ion Ratio Lower Upper

164 100

166 127.3 100.7 151.1

129 103.4 83.0 124.4

131 100.2 81.0 121.4

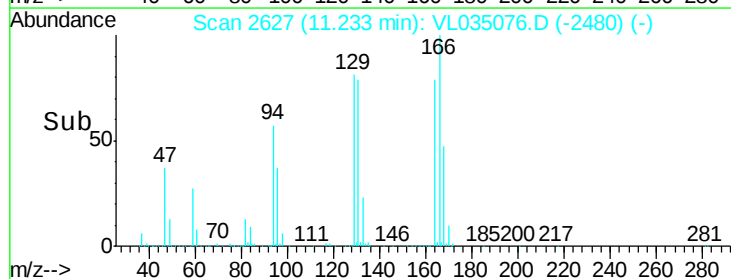
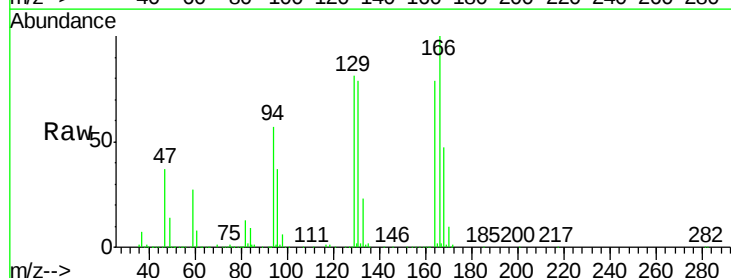
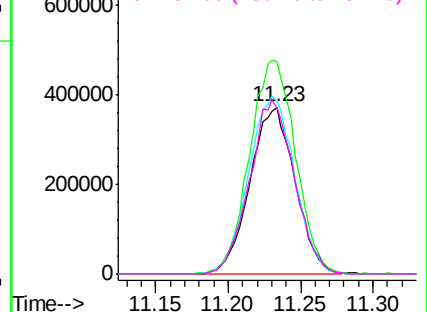
Abundance

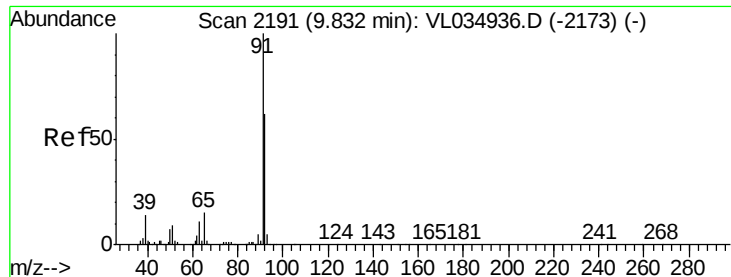
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.298 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2703110

Ion Ratio Lower Upper

91 100

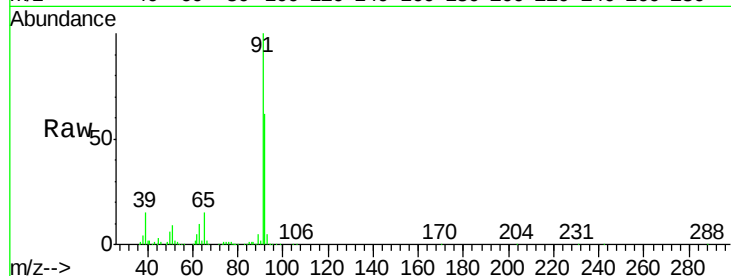
92 60.5 48.6 73.0

Manual Integrations

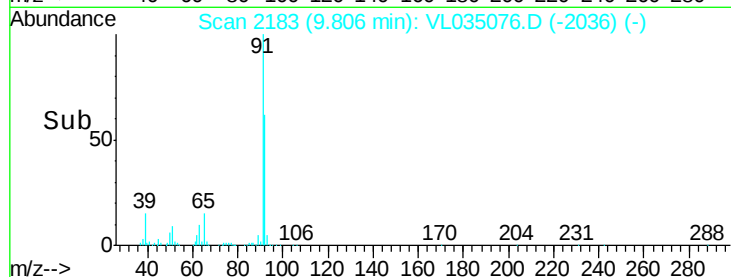
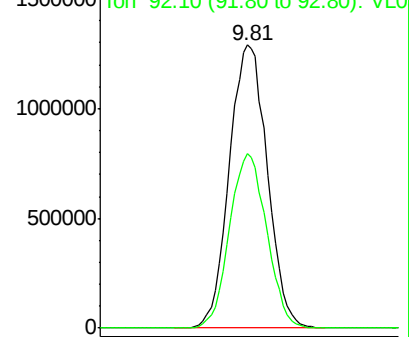
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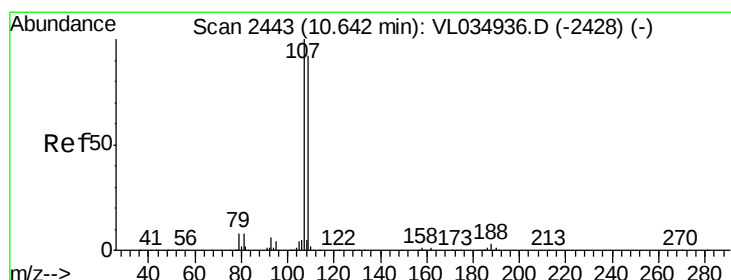
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Abundance Ion 91.10 (90.80 to 91.80): VL035076.D (-2036) (-)



Time-->



#54

1,2-Dibromoethane

Concen: 10.184 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.03 min

Lab File: VL035076.D

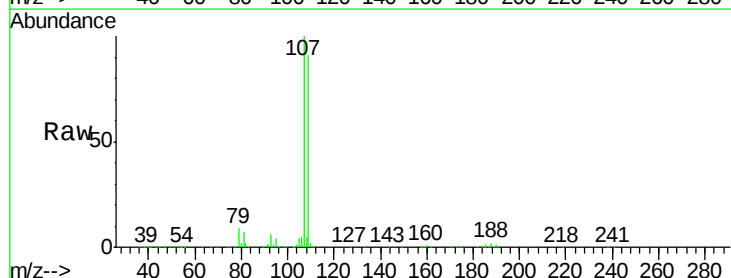
Acq: 20 May 2020 11:47

Tgt Ion: 107 Resp: 1427915

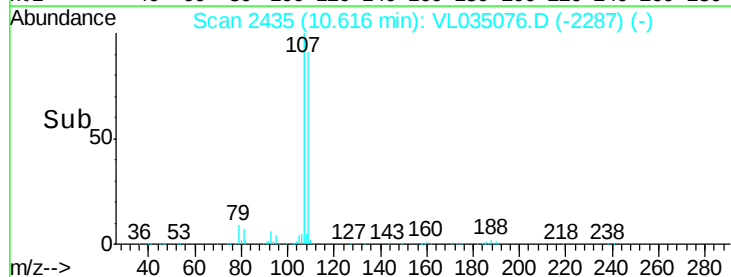
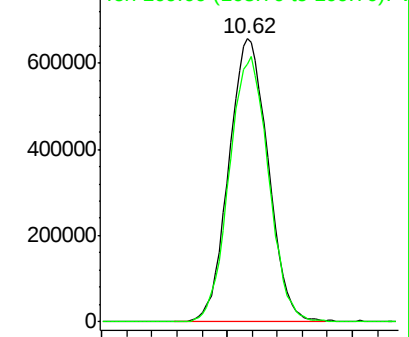
Ion Ratio Lower Upper

107 100

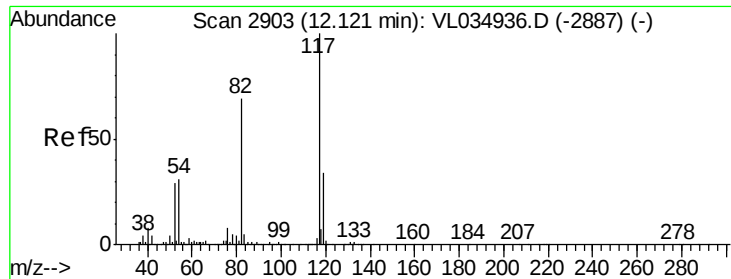
109 91.2 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): VL035076.D (-2287) (-)



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.09 min Scan# 2894

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2724281

Ion Ratio Lower Upper

117 100

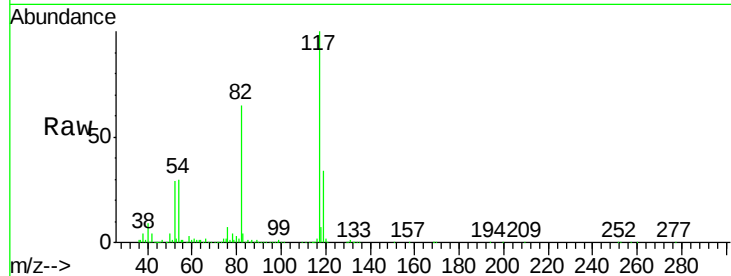
82 66.9 53.1 79.7

119 36.0 26.7 40.1

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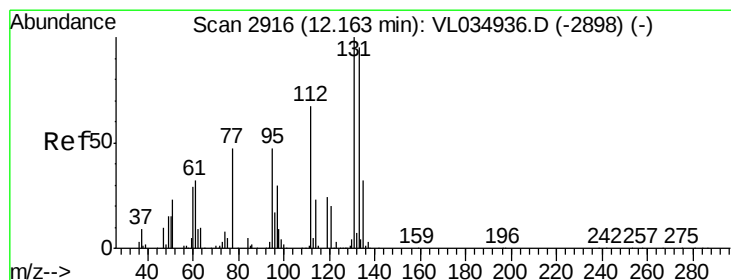
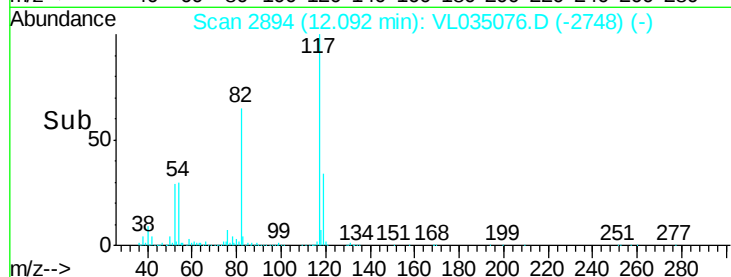
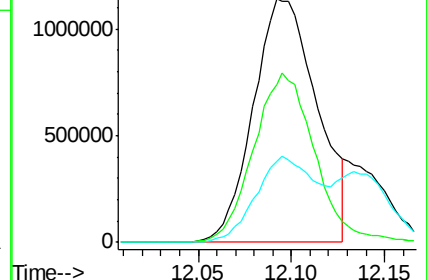
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.161 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

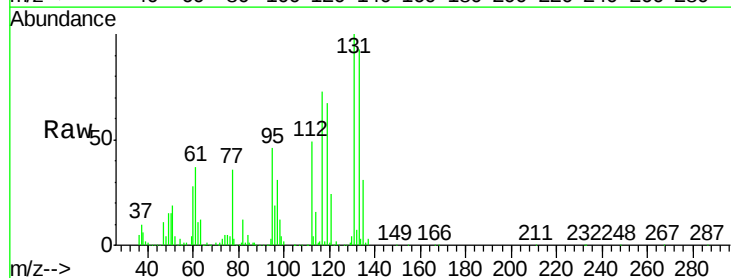
Tgt Ion:131 Resp: 1125438

Ion Ratio Lower Upper

131 100

133 96.0 77.7 116.5

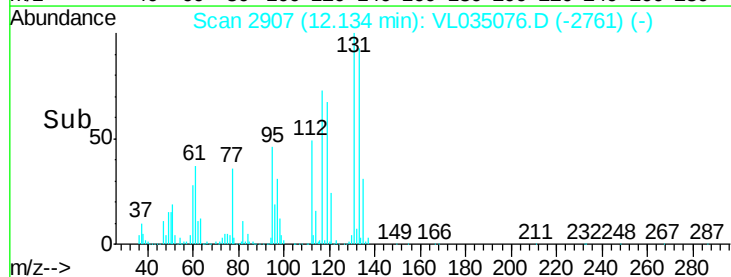
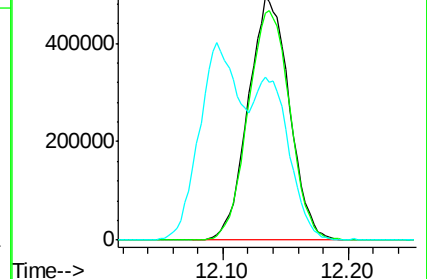
119 61.4 49.8 74.6

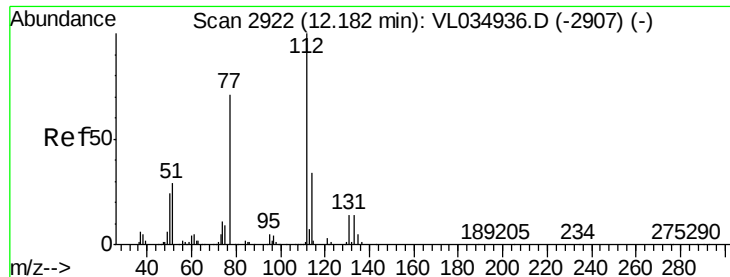


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.118 ppbv

RT: 12.16 min Scan# 2915

Delta R.T. -0.02 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 1967826

Ion Ratio Lower Upper

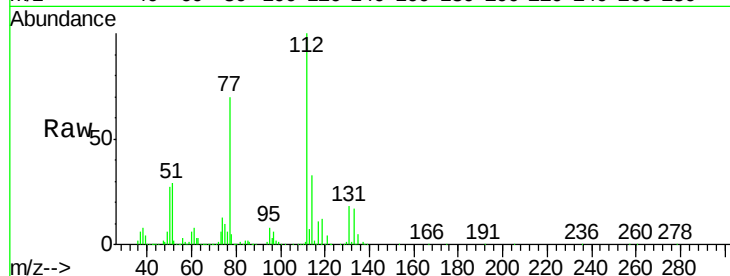
112 100

77 70.1 57.0 85.6

114 32.9 30.8 37.6

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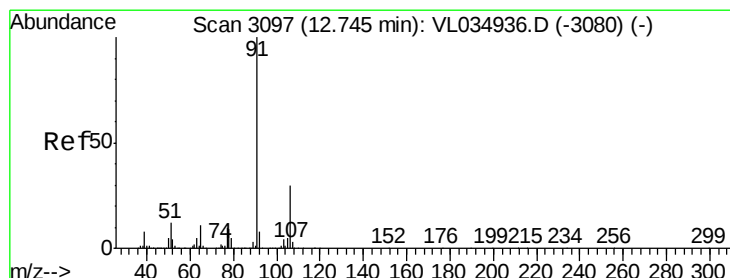
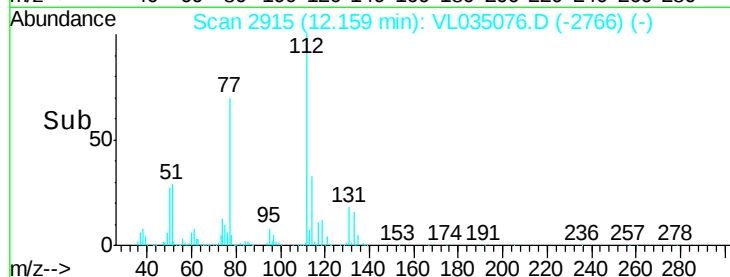
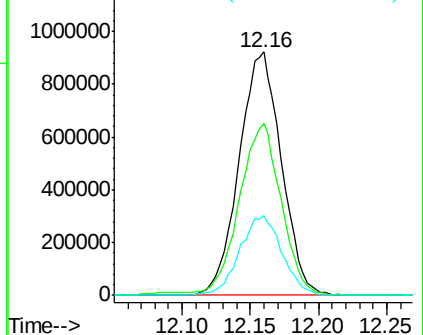
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.430 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.03 min

Lab File: VL035076.D

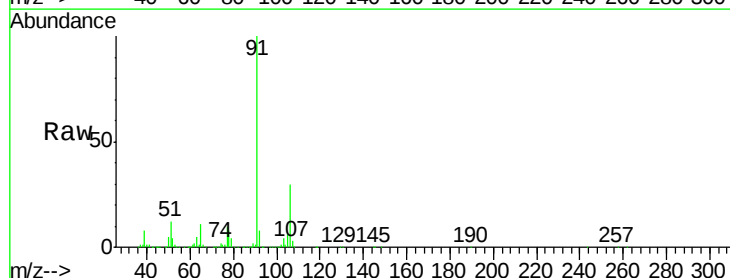
Acq: 20 May 2020 11:47

Tgt Ion: 91 Resp: 3513699

Ion Ratio Lower Upper

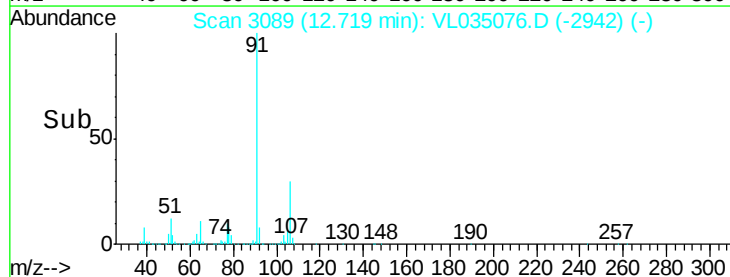
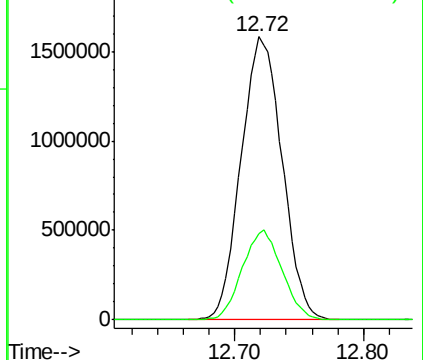
91 100

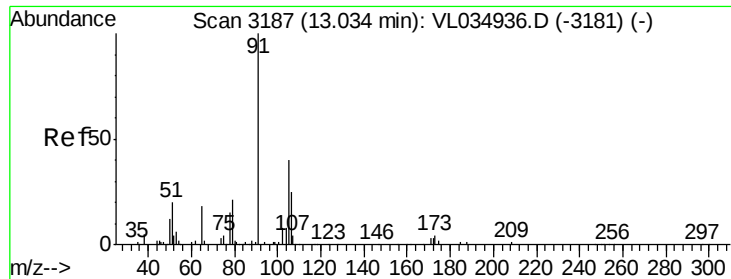
106 30.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





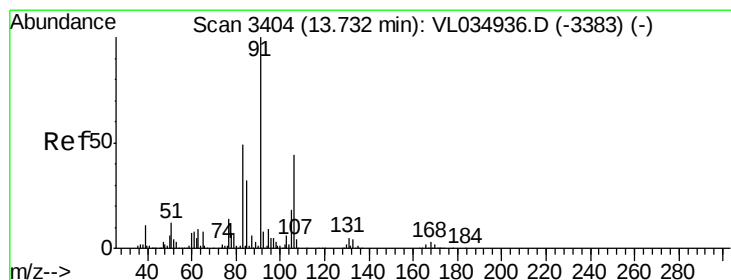
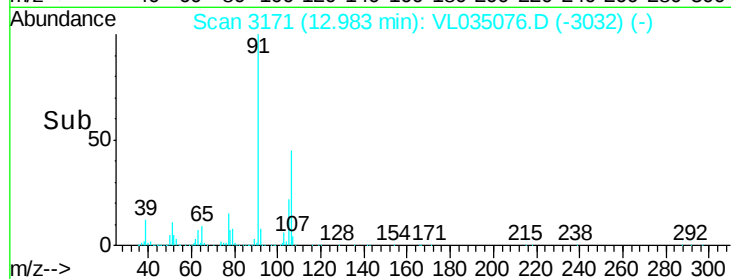
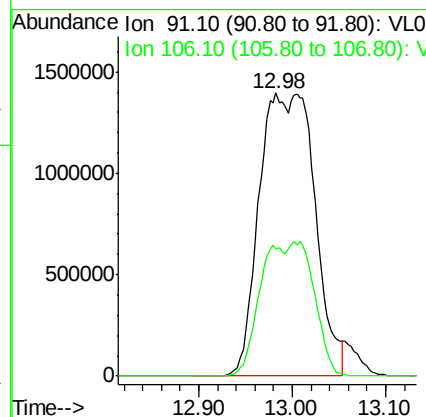
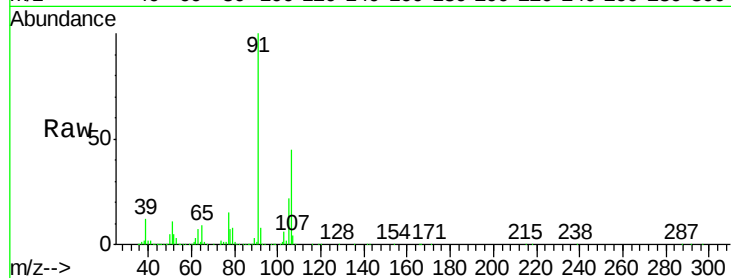
#59
m/p-Xylene
Concen: 19.433 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.05 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5759765
Ion Ratio Lower Upper
91 100
106 45.7 66.0 99.0#

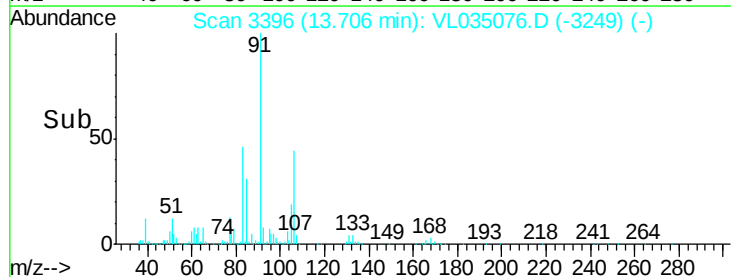
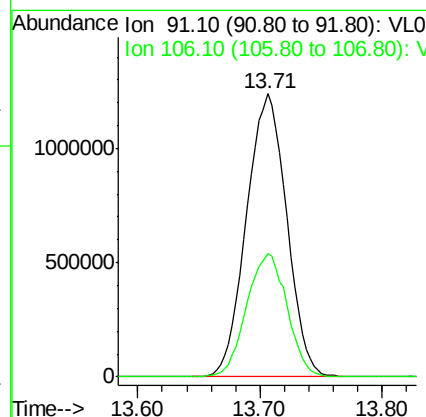
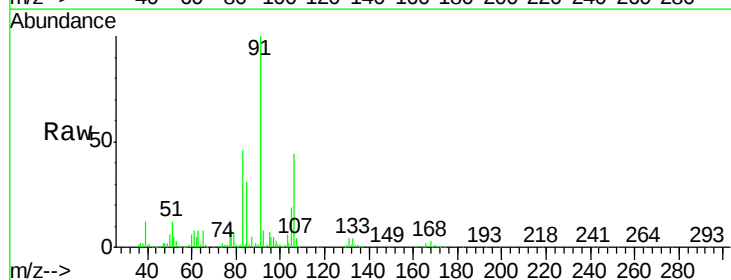
Manual Integrations
APPROVED

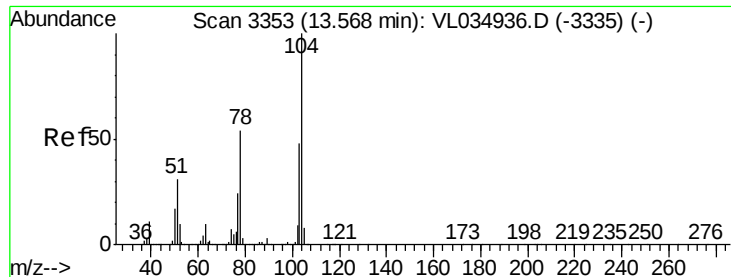
MMDadoda
5/20/2020 4:28:51 PM



#60
o-Xylene
Concen: 9.633 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.03 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion: 91 Resp: 2817310
Ion Ratio Lower Upper
91 100
106 43.8 21.9 65.5





#61

Stvrene

Concen: 11.166 ppbv

RT: 13.54 min Scan# 3344

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2066714

Ion Ratio Lower Upper

104 100

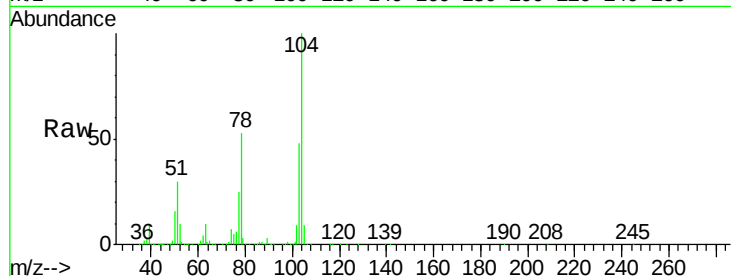
78 52.6 43.7 65.5

103 47.2 38.8 58.2

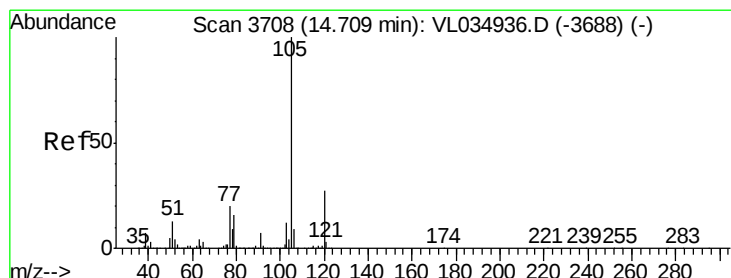
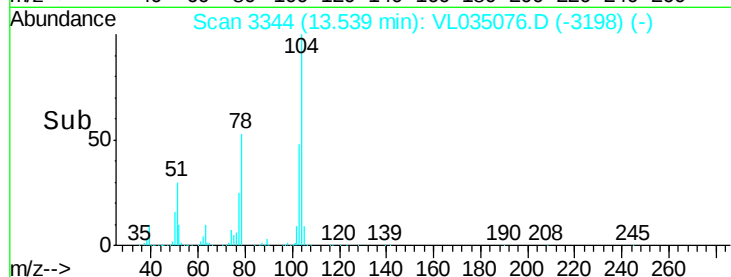
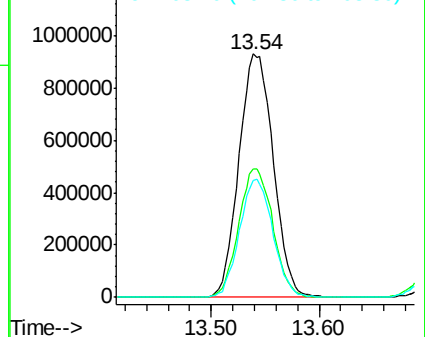
Manual Integrations
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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.549 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.03 min

Lab File: VL035076.D

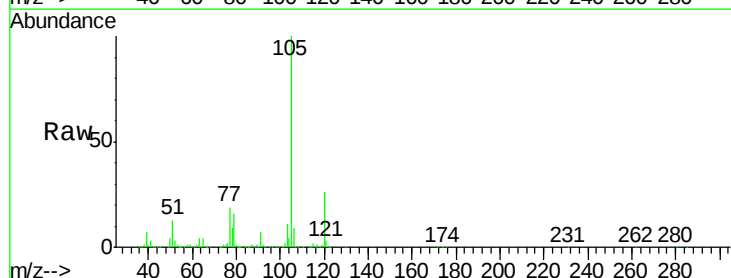
Acq: 20 May 2020 11:47

Tgt Ion:105 Resp: 4169783

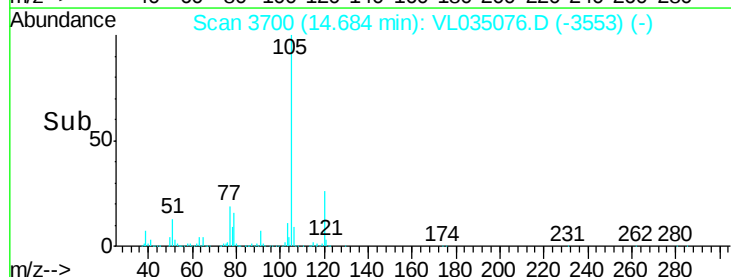
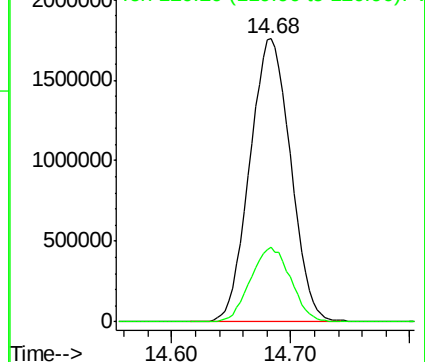
Ion Ratio Lower Upper

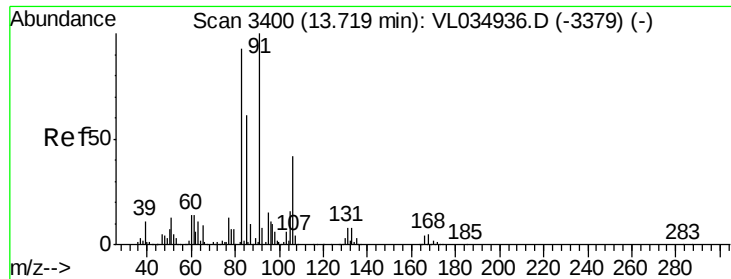
105 100

120 25.9 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





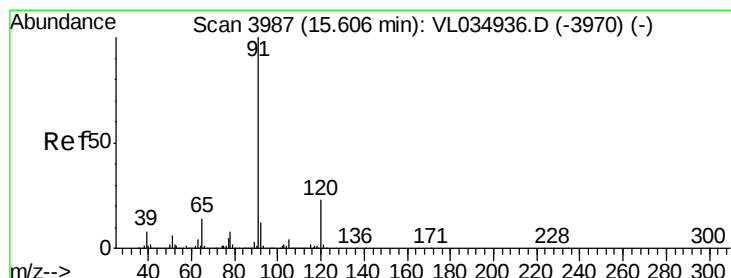
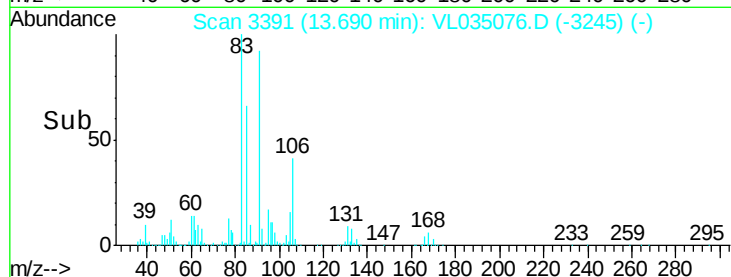
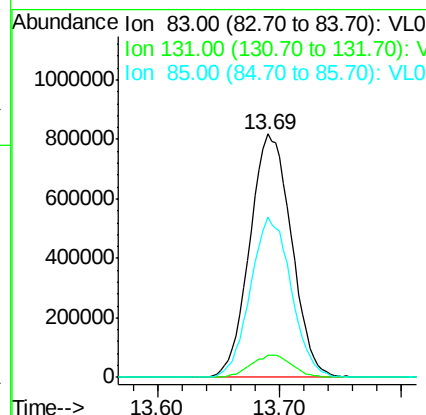
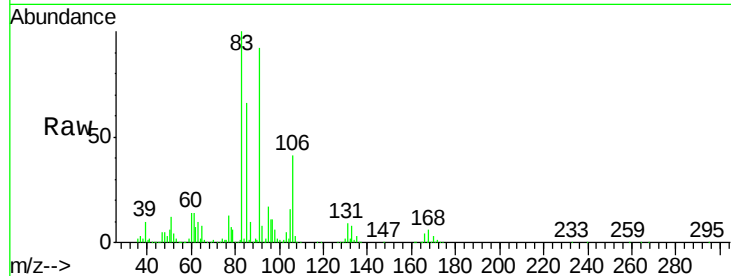
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.386 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1930838
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.7	14.0
85	64.4	32.5	97.4

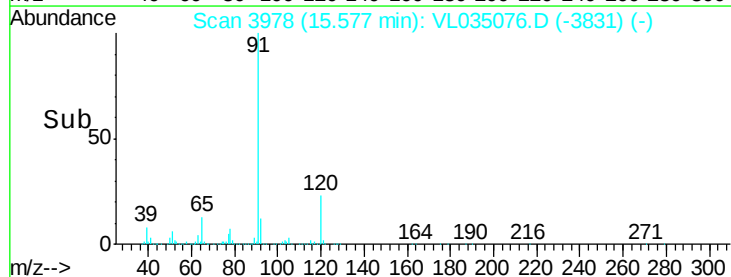
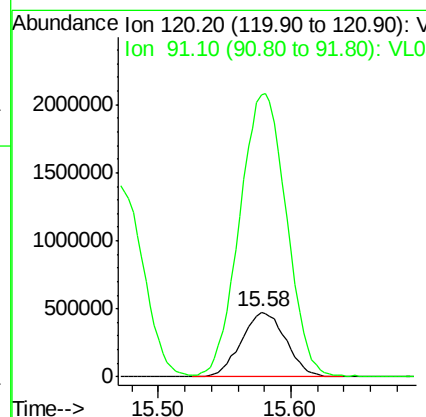
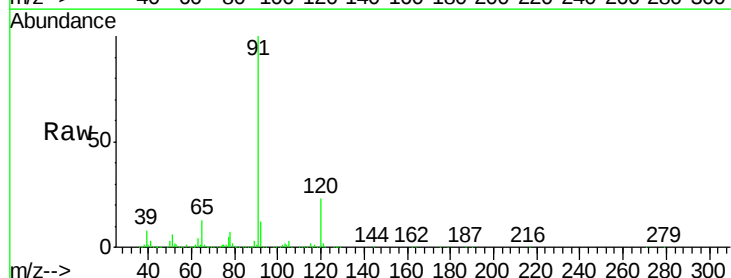
Manual Integrations
 APPROVED

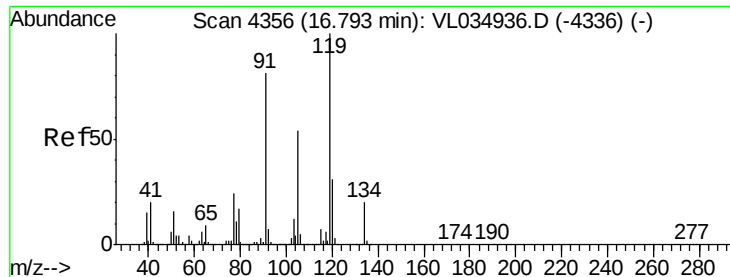
MMDadoda
 5/20/2020 4:28:51 PM



#64
 n-propylbenzene
 Concen: 9.879 ppbv
 RT: 15.58 min Scan# 3978
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion	120	Resp	1106547
Ion Ratio	Lower	Upper	
120	100		
91	461.9	373.5	560.3





#65

tert-Butylbenzene

Concen: 9.516 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3604185

Ion Ratio Lower Upper

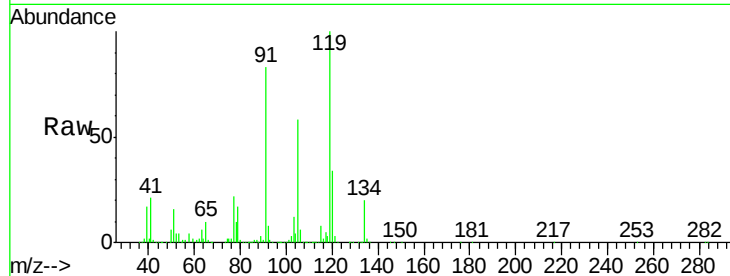
119 100

91 83.3 67.5 101.3

134 19.7 16.1 24.1

Manual Integrations
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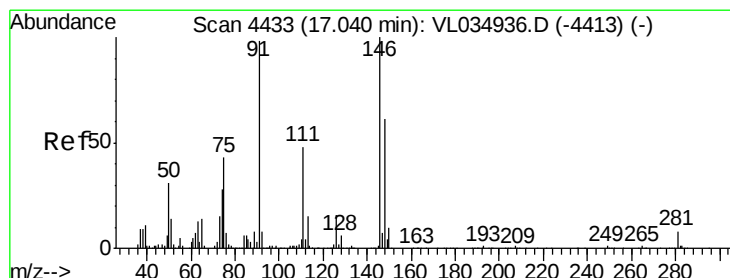
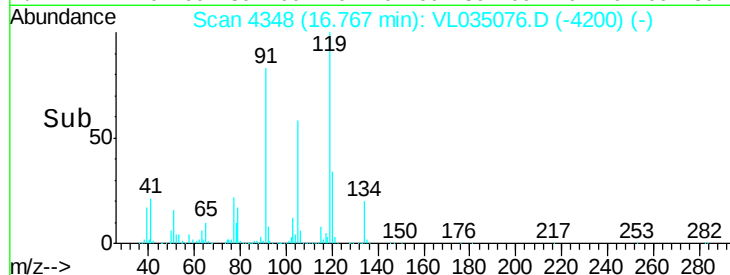
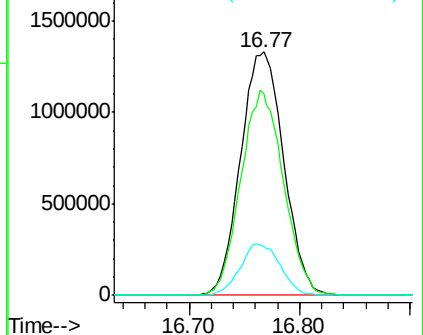
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.345 ppbv

RT: 17.01 min Scan# 4424

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

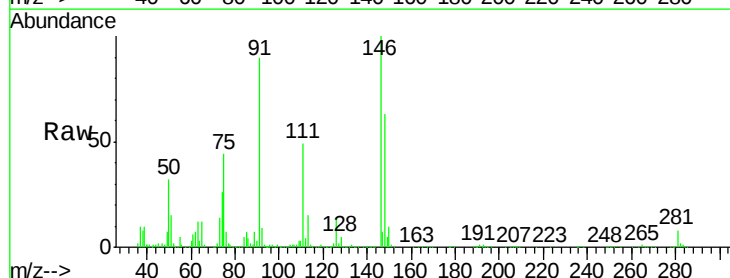
Tgt Ion: 91 Resp: 1330160

Ion Ratio Lower Upper

91 100

126 15.9 13.8 20.6

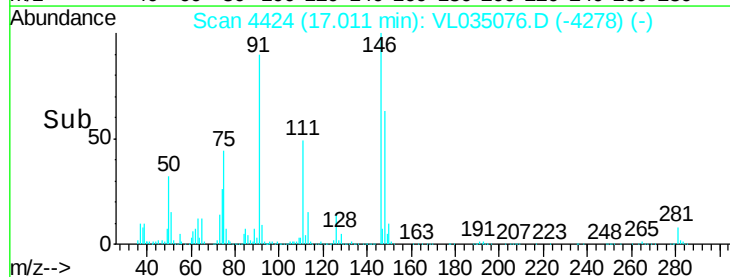
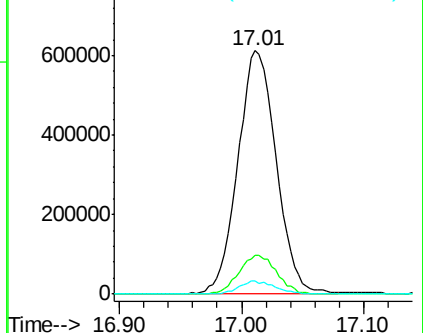
128 5.0 4.3 6.5

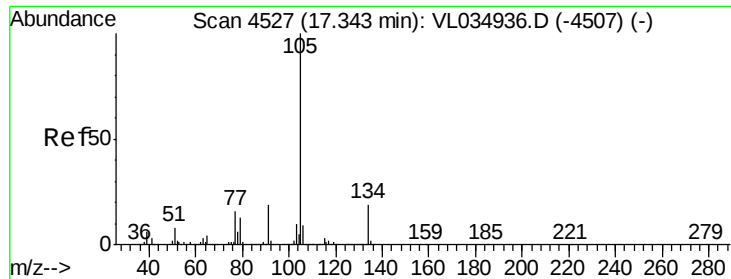


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.576 ppbv

RT: 17.32 min Scan# 4519

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 5177391

Ion Ratio Lower Upper

105 100

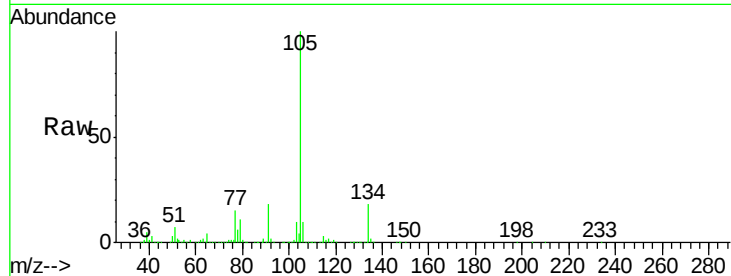
134 18.5 14.8 22.2

Manual Integrations

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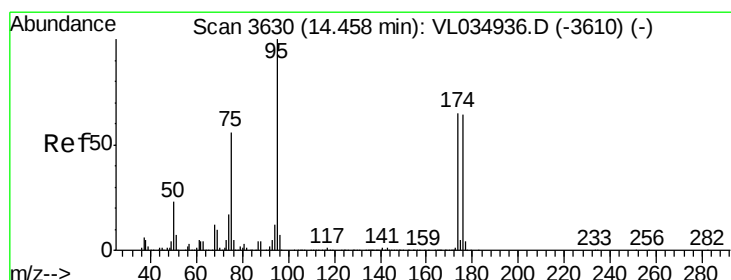
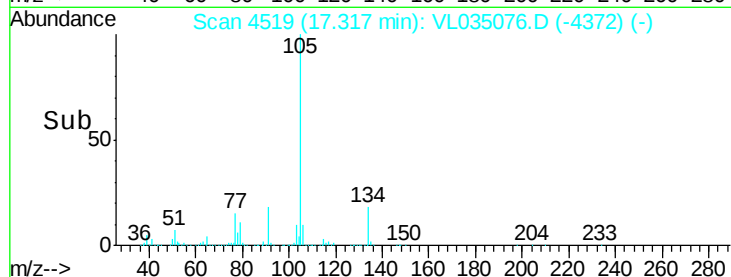
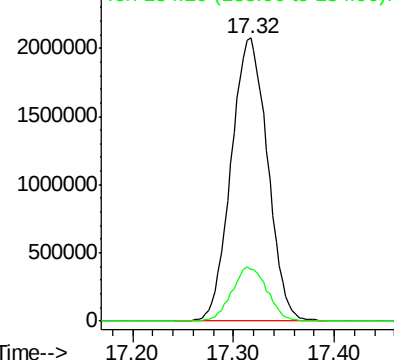
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.903 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

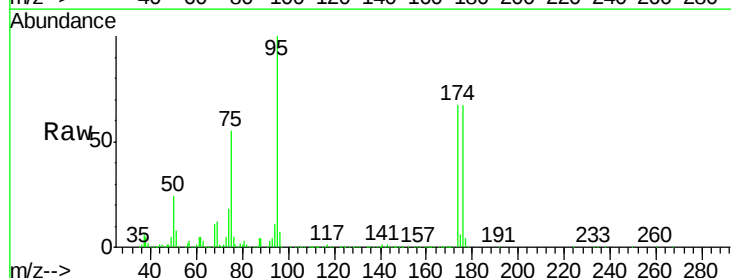
Tgt Ion: 95 Resp: 2183800

Ion Ratio Lower Upper

95 100

174 66.1 51.5 77.3

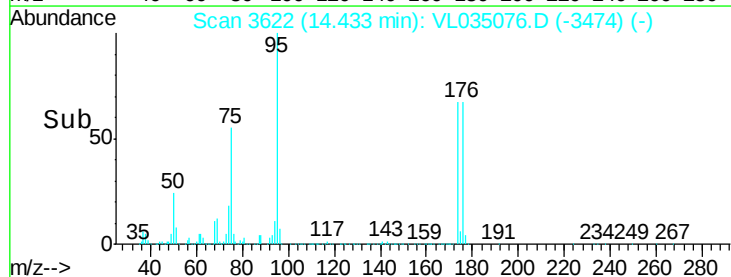
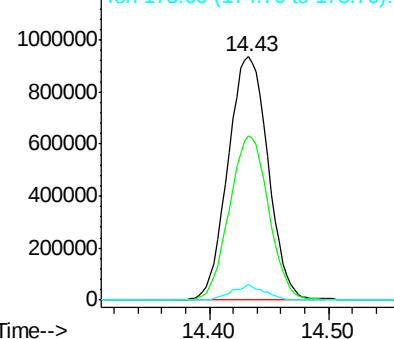
175 5.2 3.8 5.8

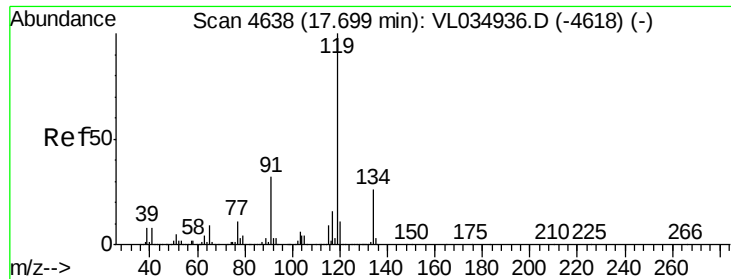


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





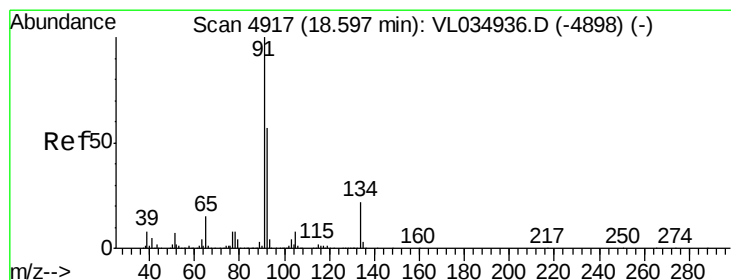
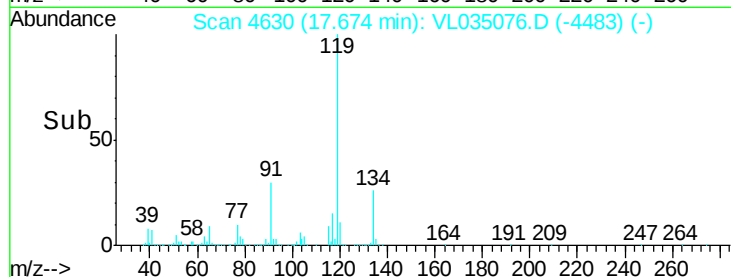
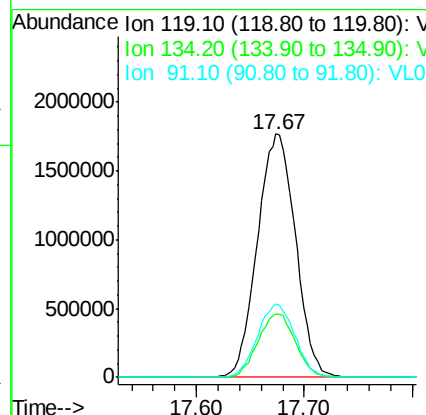
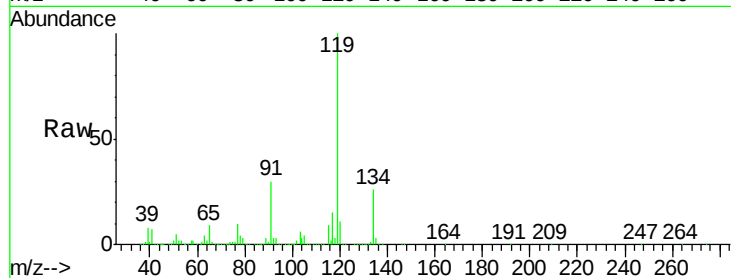
#69
 p-Isopropyltoluene
 Concen: 9.886 ppbv
 RT: 17.67 min Scan# 4630
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	20.3	30.5
91	29.7	24.6	36.8

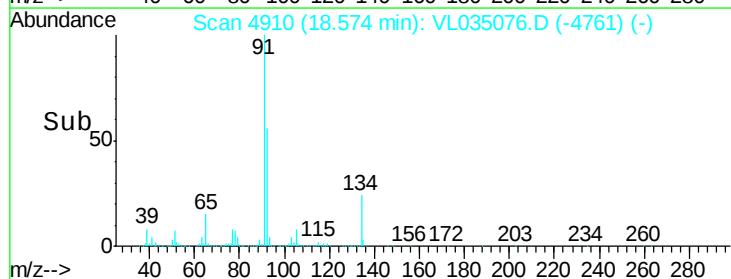
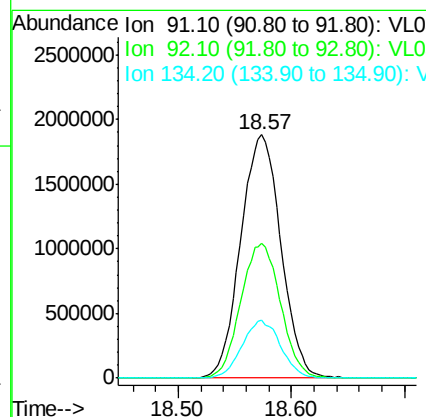
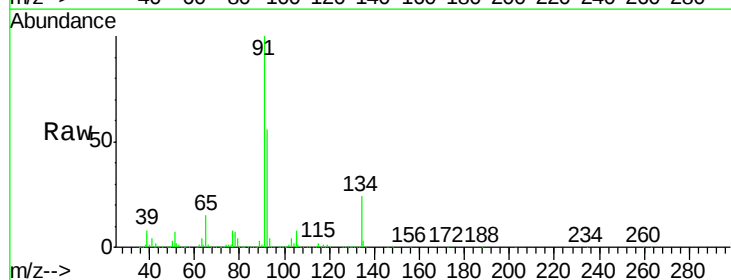
Manual Integrations
 APPROVED

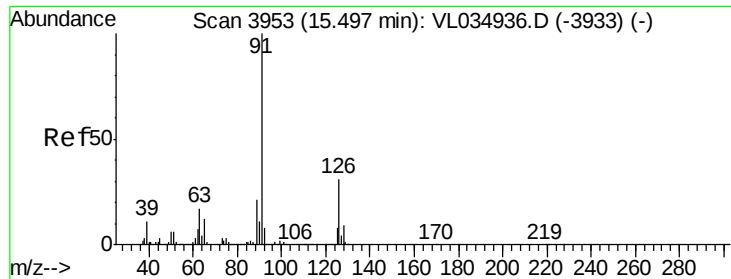
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#70
 n-Butylbenzene
 Concen: 10.005 ppbv
 RT: 18.57 min Scan# 4910
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.4	66.6
134	22.9	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.867 ppbv

RT: 15.47 min Scan# 3945

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3252521

Ion Ratio Lower Upper

91 100

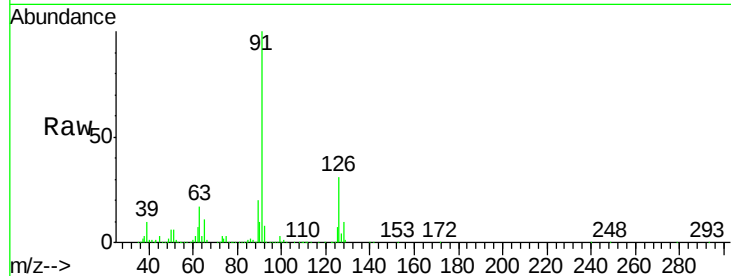
126 29.6 12.0 47.8

Manual Integrations

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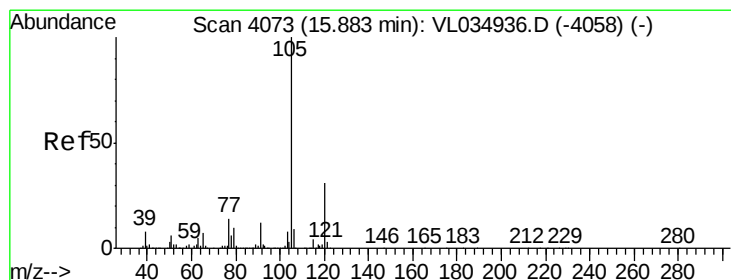
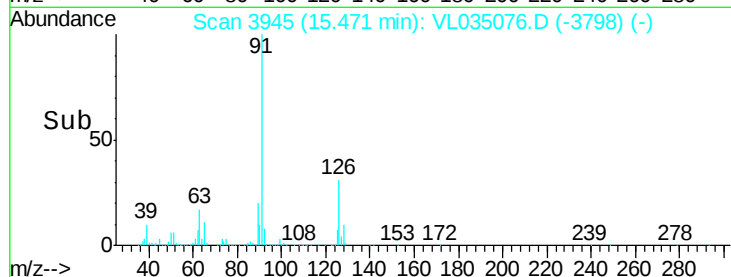
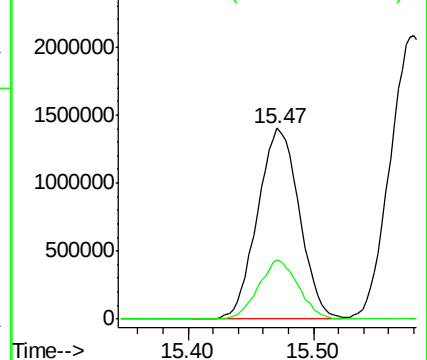
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.243 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tgt Ion:105 Resp: 3342533

Ion Ratio Lower Upper

105 100

120 29.1 23.8 35.8

91 12.9 10.6 15.8

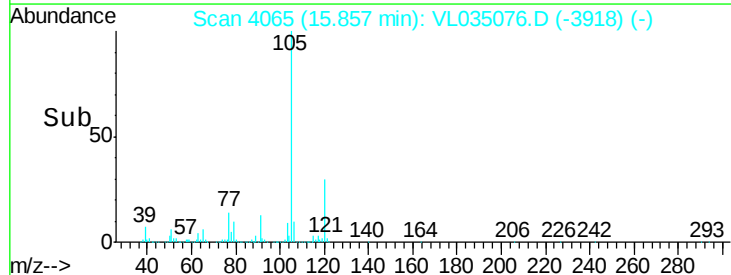
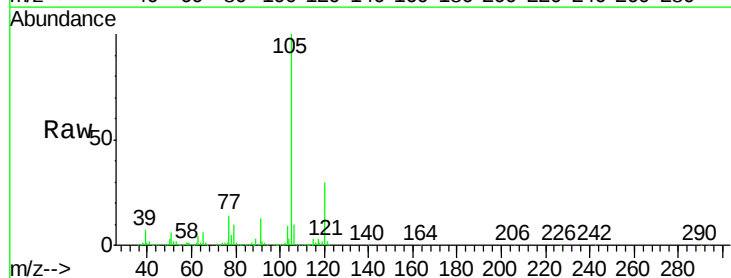
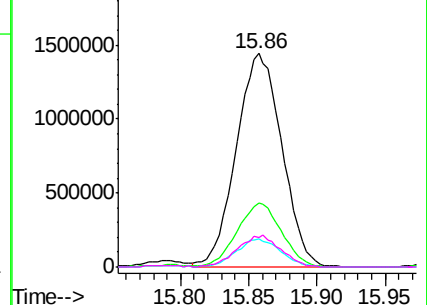
77 14.1 11.6 17.4

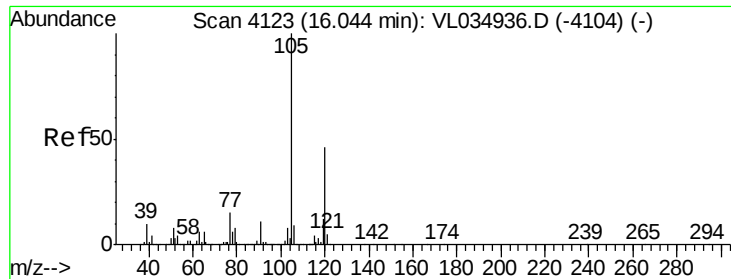
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.792 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3109507

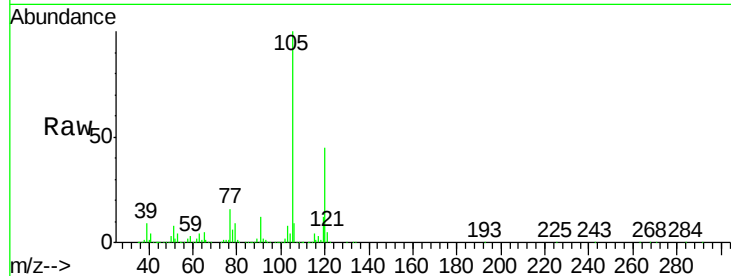
Ion Ratio Lower Upper

105 100

120 45.0 36.4 54.6

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

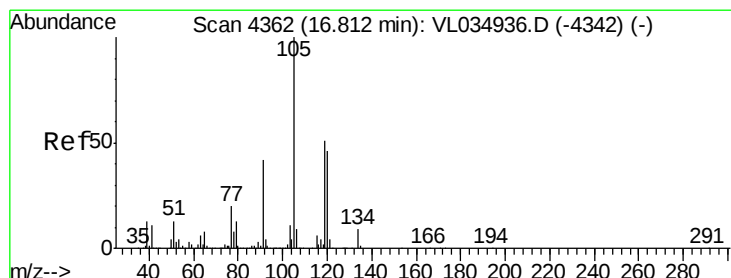
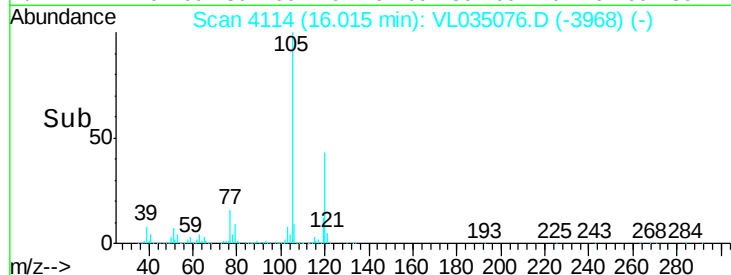
1000000

500000

0

15.90 16.01 16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.249 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.03 min

Lab File: VL035076.D

Acq: 20 May 2020 11:47

Tgt Ion:105 Resp: 3205892

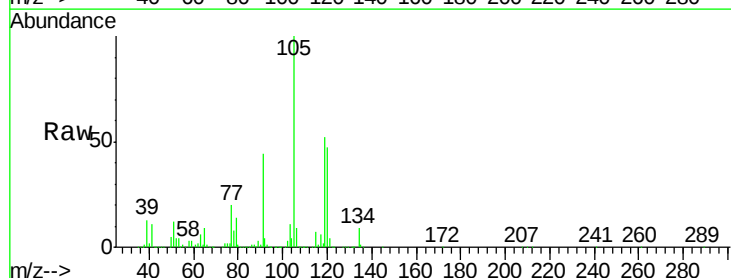
Ion Ratio Lower Upper

105 100

120 47.1 36.8 55.2

91 43.8 35.4 53.0

77 20.4 16.2 24.2



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

2000000

1500000

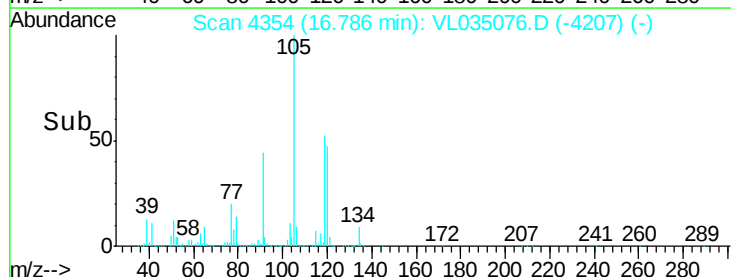
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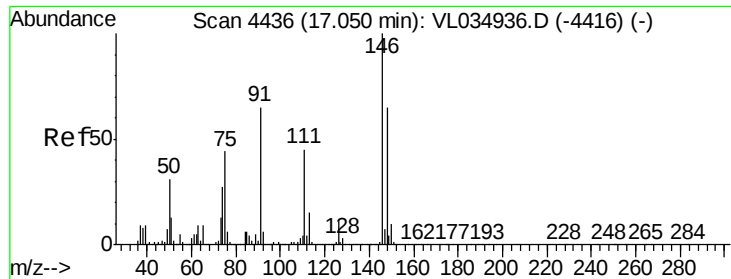
500000

0

16.70 16.79 16.80

Time-->





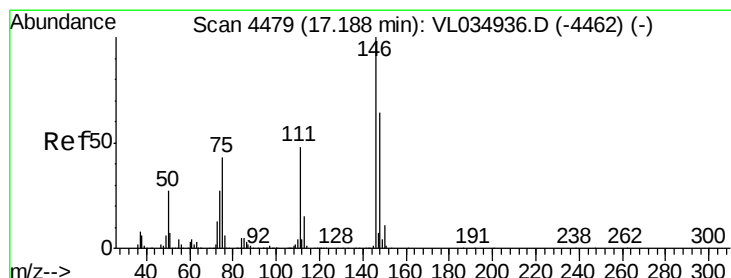
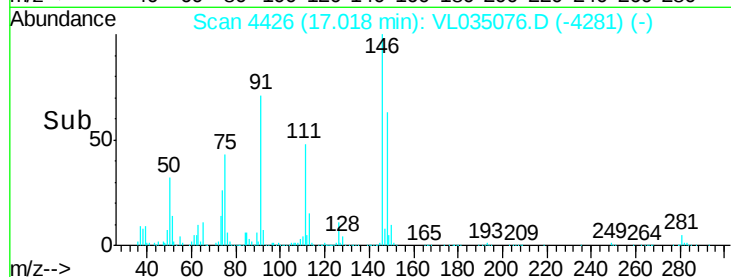
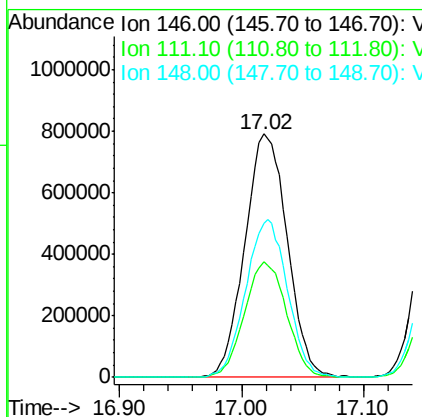
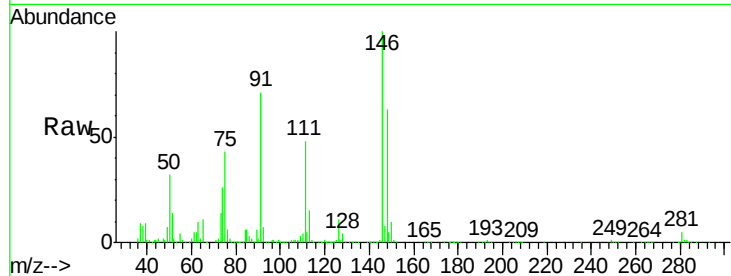
#75
 1,3-Dichlorobenzene
 Concen: 9.342 ppbv
 RT: 17.02 min Scan# 4426
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.1	24.0	72.0
148	63.9	32.6	97.7

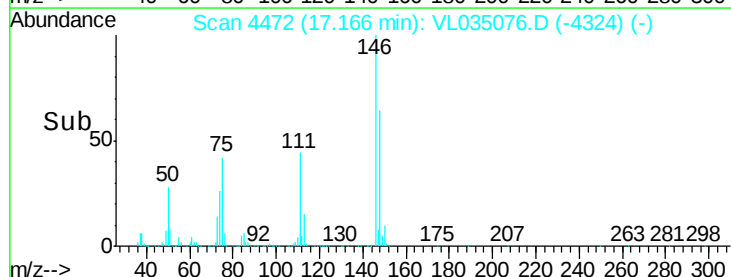
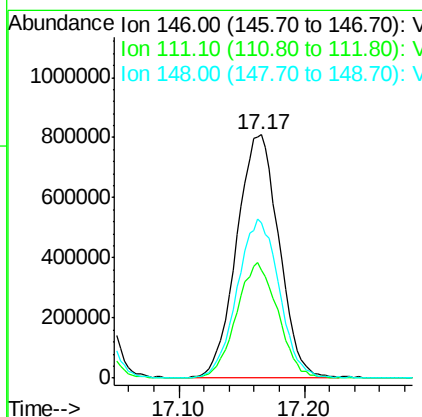
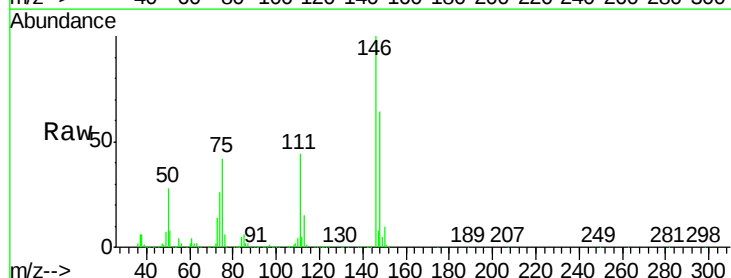
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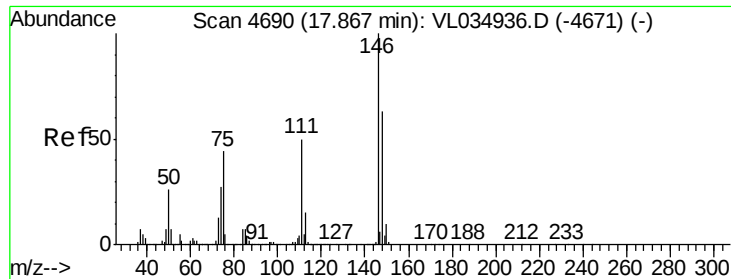
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#76
 1,4-Dichlorobenzene
 Concen: 9.768 ppbv
 RT: 17.17 min Scan# 4472
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.7	71.1
148	65.4	32.6	97.8





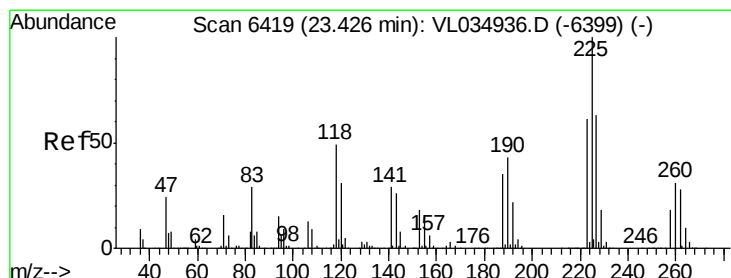
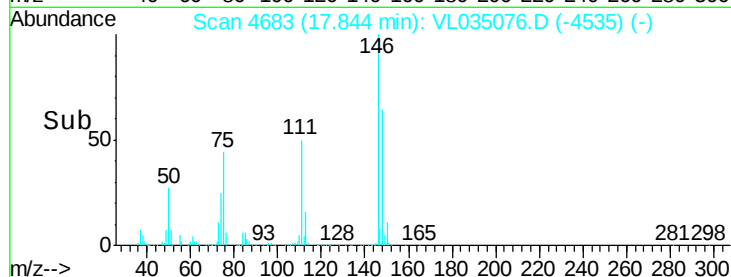
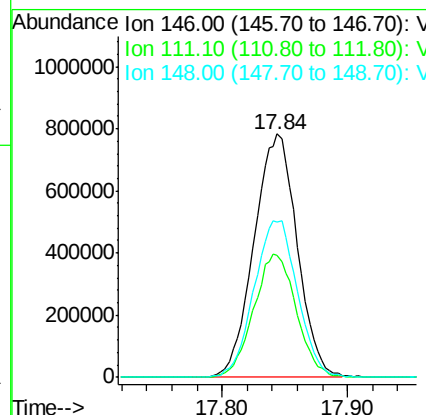
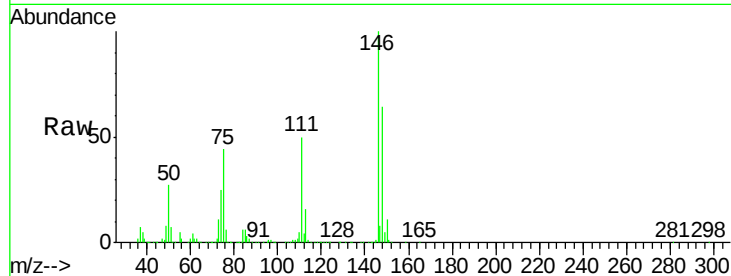
#77
 1,2-Dichlorobenzene
 Concen: 9.730 ppbv
 RT: 17.84 min Scan# 4683
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1865990
 Ion Ratio Lower Upper
 146 100
 111 50.1 24.5 73.5
 148 64.9 31.7 95.1

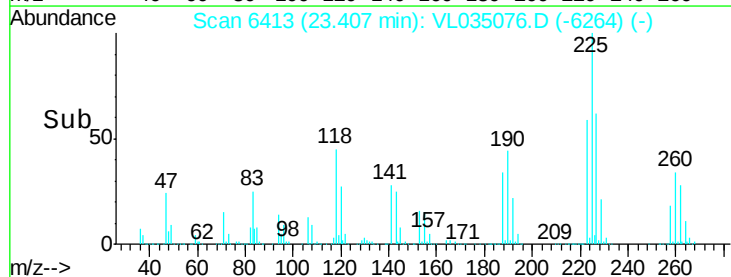
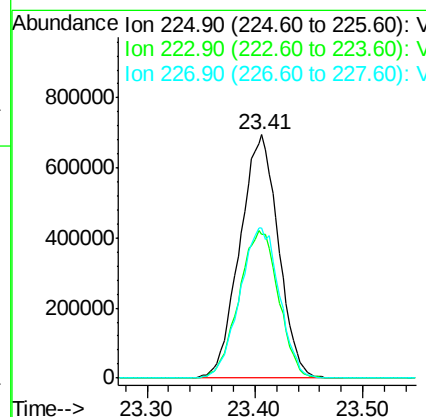
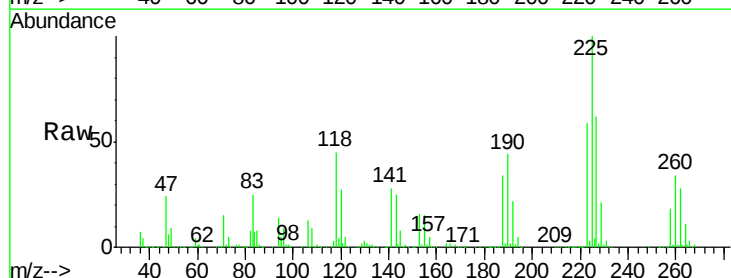
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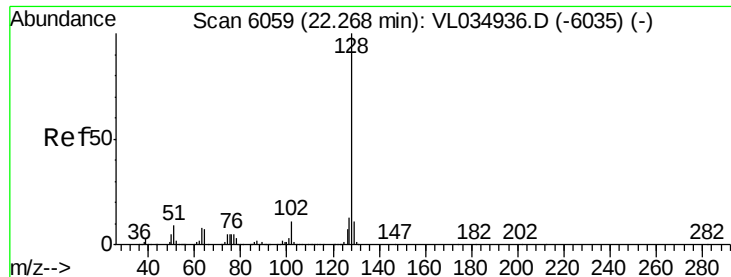
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#78
 Hexachloro-1,3-Butadiene
 Concen: 10.554 ppbv
 RT: 23.41 min Scan# 6413
 Delta R.T. -0.02 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Tgt Ion:225 Resp: 1725346
 Ion Ratio Lower Upper
 225 100
 223 62.2 49.8 74.8
 227 63.5 51.8 77.6





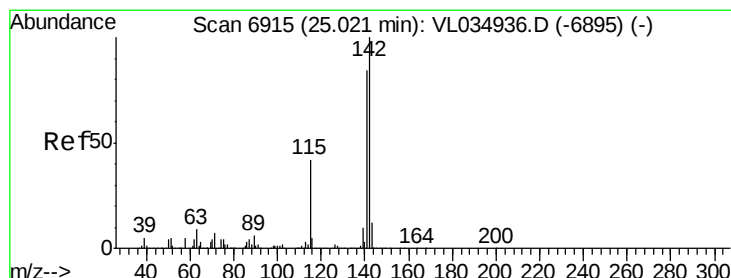
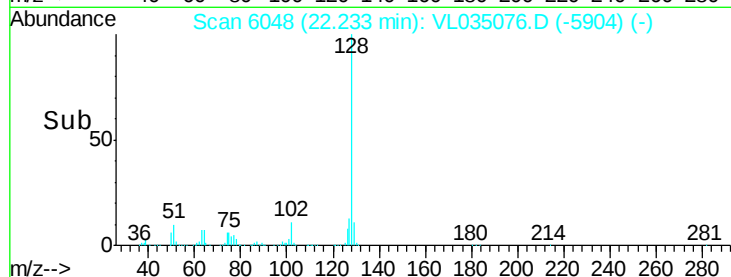
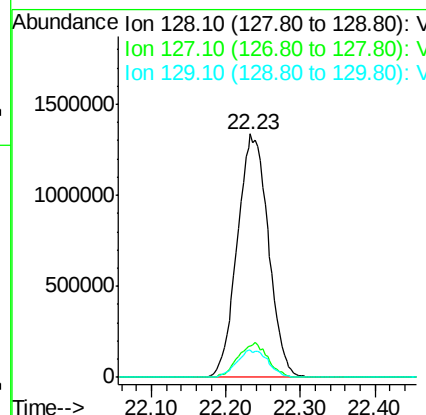
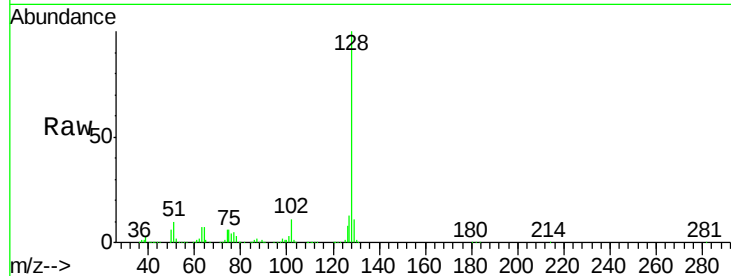
#79
Naphthalene
Concen: 14.318 ppbv m
RT: 22.23 min Scan# 6048
Delta R.T. -0.04 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	11.4	9.0	13.4

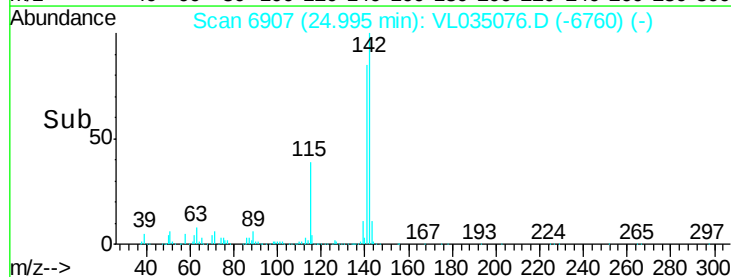
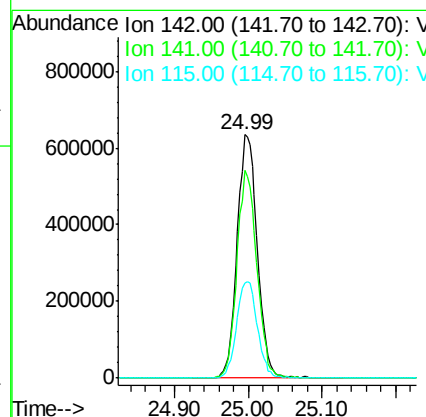
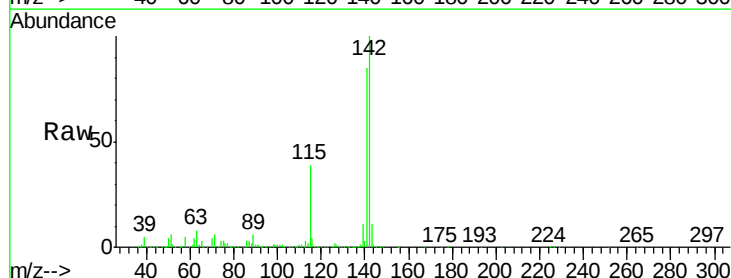
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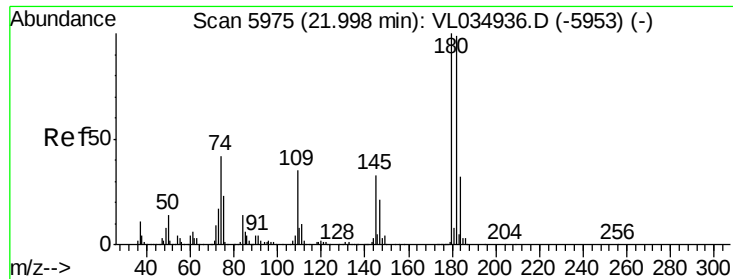
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#80
Naphthalene, 2-methyl-
Concen: 18.224 ppbv
RT: 24.99 min Scan# 6907
Delta R.T. -0.03 min
Lab File: VL035076.D
Acq: 20 May 2020 11:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.3	68.6	102.8
115	40.9	33.9	50.9





#81
 1,2,4-Trichlorobenzene
 Concen: 12.372 ppbv
 RT: 21.97 min Scan# 5965
 Delta R.T. -0.03 min
 Lab File: VL035076.D
 Acq: 20 May 2020 11:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.5	116.3
184	31.2	24.8	37.2

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