

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072120\
 Data File : VL035211.D
 Acq On : 21 Jul 2020 12:23
 Operator : SY/AP
 Sample : VL0721ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0721ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/23/2020 3:00:14 PM

Quant Time: Jul 22 08:40:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 0
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1257928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2958373	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2977089m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2305983	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1373526	7.791	ppbv 99
3) Chlorodifluoromethane	2.94	51	1241532	8.935	ppbv 100
4) Chloromethane	3.09	50	709466	9.059	ppbv 97
5) Vinyl Chloride	3.21	62	720085	8.605	ppbv 97
6) Bromomethane	3.43	94	454209	9.563	ppbv 97
7) Chloroethane	3.51	64	280452	9.480	ppbv 100
8) Dichlorotetrafluoroethane	3.14	85	1723728	8.921	ppbv 99
9) Propene	2.96	41	498191	9.487	ppbv 100
10) Heptane	8.13	43	1427843	10.592	ppbv 100
11) Trichlorofluoromethane	3.91	101	1830179	9.193	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1291630	9.238	ppbv 100
13) Ethanol	3.56	45	128860	7.708	ppbv 91
14) Bromoethene	3.70	108	542087	9.421	ppbv 97
15) Acetone	3.81	43	1383563	8.124	ppbv 99
16) 1,3-Butadiene	3.28	39	643376	9.842	ppbv 99
17) tert-Butyl alcohol	4.26	59	1527355	10.136	ppbv 100
18) 1,1-Dichloroethene	4.25	96	589893	9.529	ppbv 97
19) Isopropyl Alcohol	3.93	45	997660	9.710	ppbv 99
20) Methylene Chloride	4.31	84	557236	7.520	ppbv 98
21) Allyl Chloride	4.38	41	952399	9.608	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	589189	9.533	ppbv 98
23) Vinyl Acetate	5.05	43	1792366	9.723	ppbv 99
24) 1,1-Dichloroethane	4.99	63	1464517	9.251	ppbv 99
25) Ethyl Acetate	5.66	43	2514009	9.512	ppbv 99
26) Hexane	5.67	57	1143073	9.809	ppbv 99
27) Carbon Disulfide	4.52	76	1583758	9.733	ppbv 98
28) Methyl tert-Butyl Ether	5.01	73	1748510	9.849	ppbv 100
29) Chloroform	5.74	83	1827250	9.353	ppbv 97
30) Cyclohexane	7.13	84	938328	10.883	ppbv 100
31) cis-1,2-Dichloroethene	5.53	61	1097411	9.956	ppbv 99
32) 1,1,1-Trichloroethane	6.50	97	1812571	9.258	ppbv 98
34) 2-Butanone	5.22	43	1538759	9.745	ppbv 99
35) Carbon Tetrachloride	7.01	117	1868418	9.729	ppbv 98
36) Benzene	6.89	78	2210818	10.325	ppbv 97
37) 1,2-Dichloroethane	6.30	62	1398168	9.730	ppbv 100
38) Trichloroethene	7.84	130	888392	10.183	ppbv 98
39) 1,2-Dichloropropane	7.62	63	865007	10.159	ppbv 93
40) 1,4-Dioxane	7.83	88	320904m	9.467	ppbv
41) Tetrahydrofuran	6.03	42	851265	10.774	ppbv 98
42) Bromodichloromethane	7.80	83	1949865	10.162	ppbv 99
43) Methyl Methacrylate	8.02	69	1020116	11.270	ppbv 99

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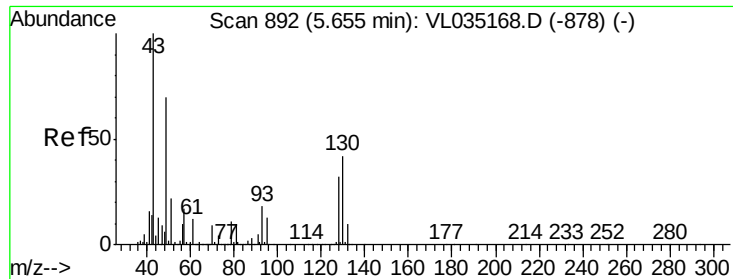
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3875398	10.486	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1147022	12.062	ppbv	95
46) cis-1,3-Dichloropropene	8.72	75	1341036	11.896	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	945745	10.147	ppbv	97
48) Dibromochloromethane	10.32	129	1617361	10.665	ppbv	97
49) Bromoform	13.07	173	1432398	10.798	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2391945	10.555	ppbv	100
51) 2-Hexanone	10.15	43	1924442	11.137	ppbv #	99
52) Tetrachloroethene	11.24	164	795925	9.952	ppbv	97
53) Toluene	9.82	91	2612962	11.563	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1456206	10.528	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	1259458	9.549	ppbv	98
57) Chlorobenzene	12.17	112	2061792	9.397	ppbv	98
58) Ethyl Benzene	12.73	91	3565130	10.834	ppbv	99
59) m/p-Xylene	13.02	91	5918469m	20.181	ppbv	
60) o-Xylene	13.72	91	3021861	10.328	ppbv	99
61) Styrene	13.56	104	2093627	11.579	ppbv	100
62) Isopropylbenzene	14.70	105	4417391	10.185	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	2151648	8.800	ppbv	99
64) n-propylbenzene	15.60	120	1169514	10.439	ppbv	99
65) tert-Butylbenzene	16.78	119	3929880	10.089	ppbv	99
66) Benzyl Chloride	17.03	91	1576758	11.362	ppbv	100
67) sec-Butylbenzene	17.33	105	5591310	9.846	ppbv	100
69) p-Isopropyltoluene	17.69	119	4638806	10.422	ppbv	99
70) n-Butylbenzene	18.59	91	4785334	10.140	ppbv	100
71) 2-Chlorotoluene	15.49	91	3402235	10.367	ppbv	100
72) 4-Ethyltoluene	15.87	105	3527301	10.699	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	3295594	10.366	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	3450012	9.820	ppbv	95
75) 1,3-Dichlorobenzene	17.04	146	1936861	8.705	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1967559	9.515	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1916937	9.569	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	1392413	8.796	ppbv	99
79) Naphthalene	22.26	128	2896797	12.742	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1065567	19.842	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	1601226	11.117	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 49 Resp: 1257928

Ion Ratio Lower Upper

49 100

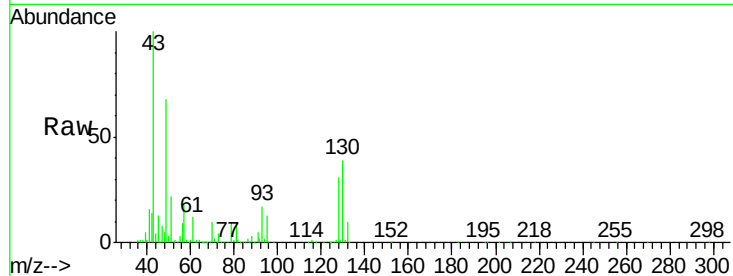
128 46.8 23.8 71.4

130 59.8 29.9 89.8

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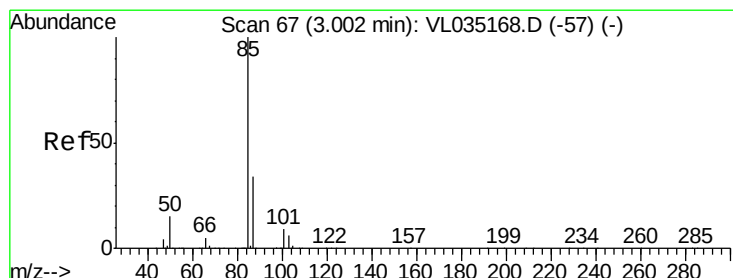
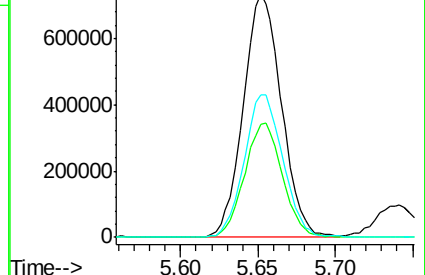
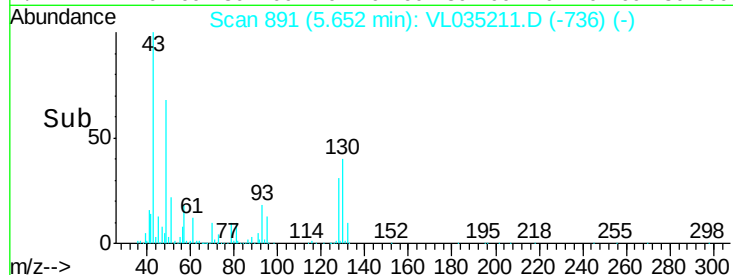
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 7.791 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL035211.D

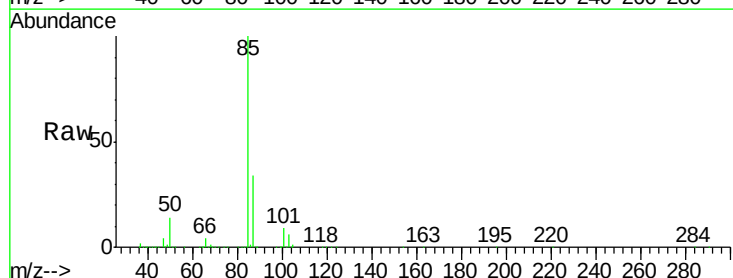
Acq: 21 Jul 2020 12:23

Tgt Ion: 85 Resp: 1373526

Ion Ratio Lower Upper

85 100

87 34.3 27.0 40.6

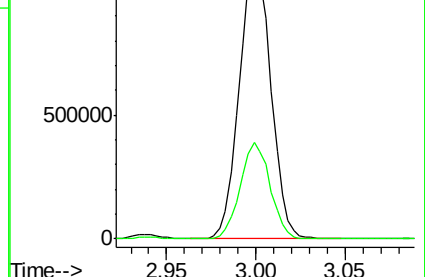
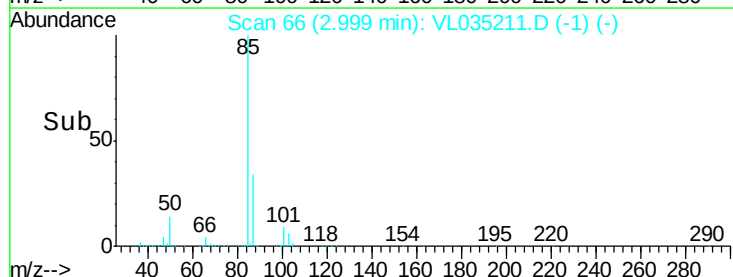


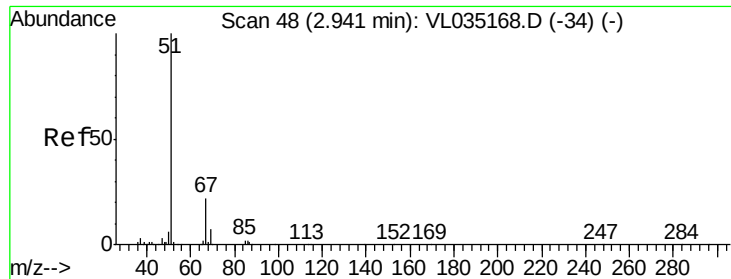
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.00

Time-->





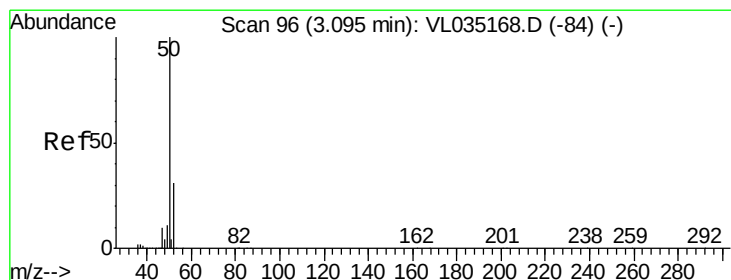
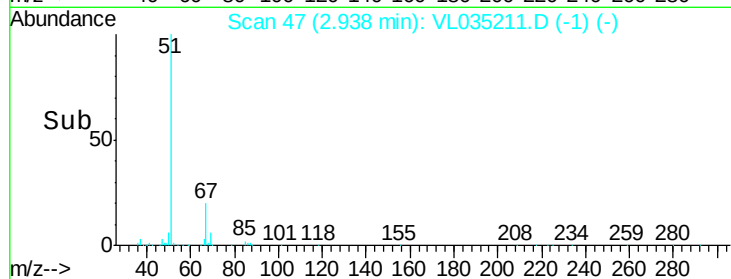
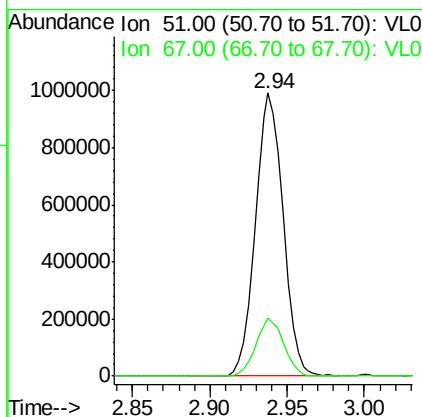
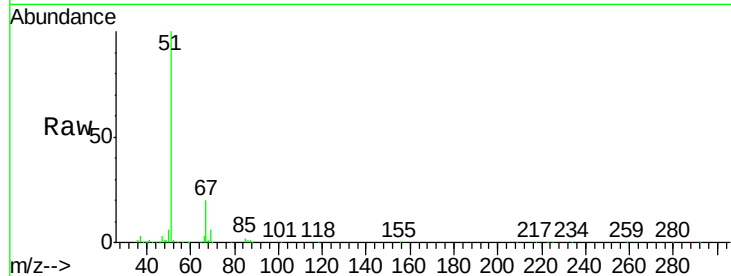
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 Chlorodifluoromethane
 Concen: 8.935 ppbv
 RT: 2.94 min Scan# 47
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion: 51 Resp: 1241532
 Ion Ratio Lower Upper
 51 100
 67 20.6 16.6 24.8

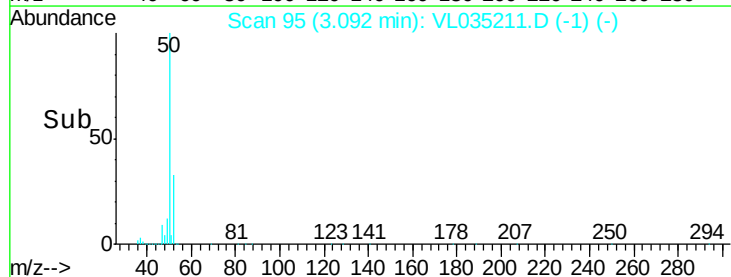
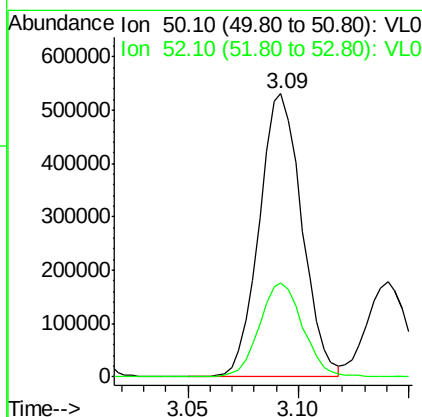
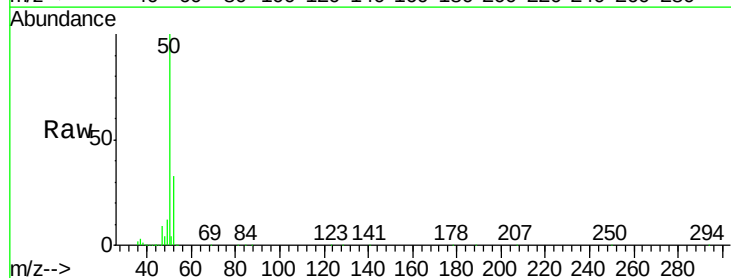
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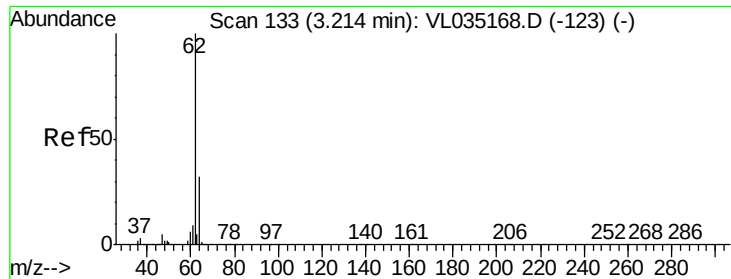
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#4
 Chloromethane
 Concen: 9.059 ppbv
 RT: 3.09 min Scan# 95
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion: 50 Resp: 709466
 Ion Ratio Lower Upper
 50 100
 52 33.2 25.0 37.6





#5

Vinyl Chloride

Concen: 8.605 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 62 Resp: 720085

Ion Ratio Lower Upper

62 100

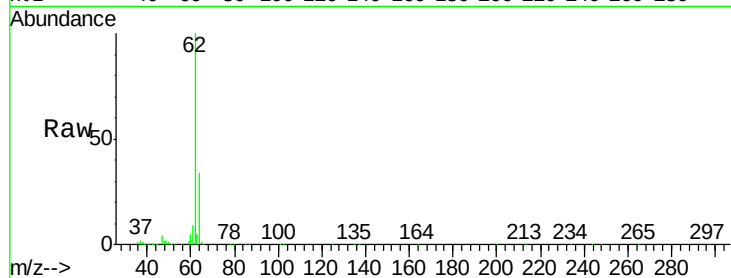
64 33.9 25.9 38.9

Manual Integrations

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7/23/2020 3:00:14 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.21

600000

500000

400000

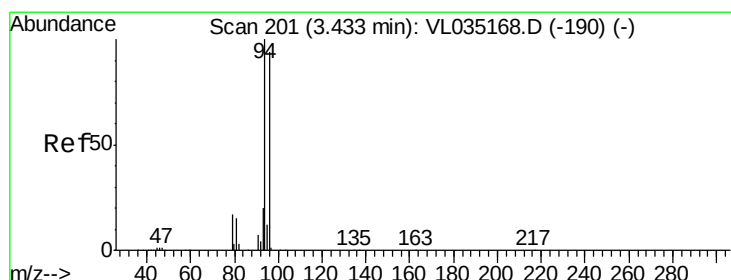
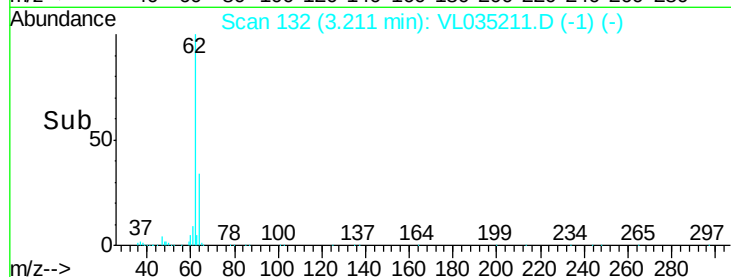
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.563 ppbv

RT: 3.43 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL035211.D

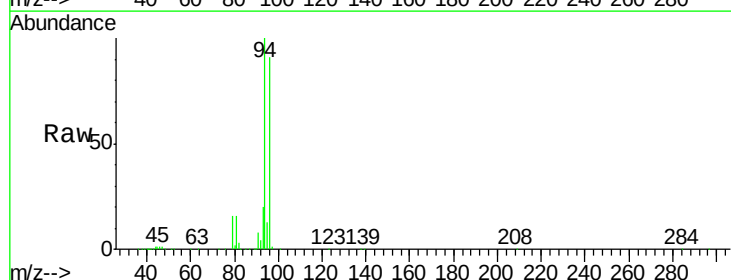
Acq: 21 Jul 2020 12:23

Tgt Ion: 94 Resp: 454209

Ion Ratio Lower Upper

94 100

96 90.8 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.43

400000

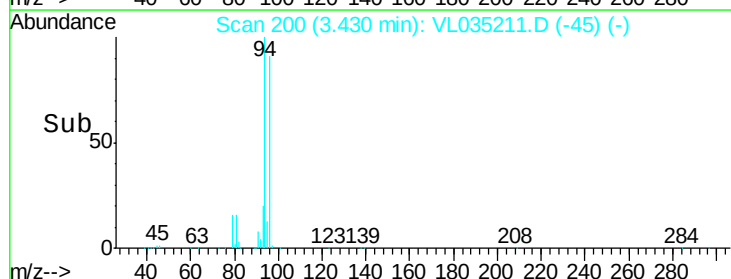
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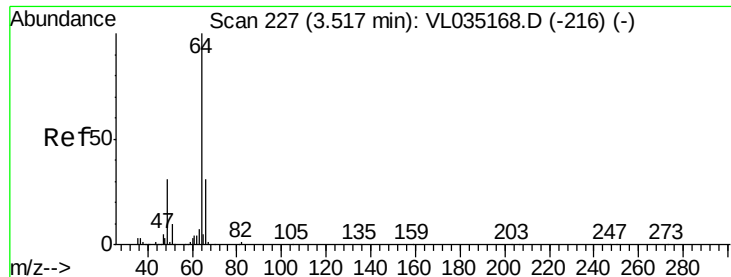
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.480 ppbv

RT: 3.51 min Scan# 226

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 64 Resp: 280452

Ion Ratio Lower Upper

64 100

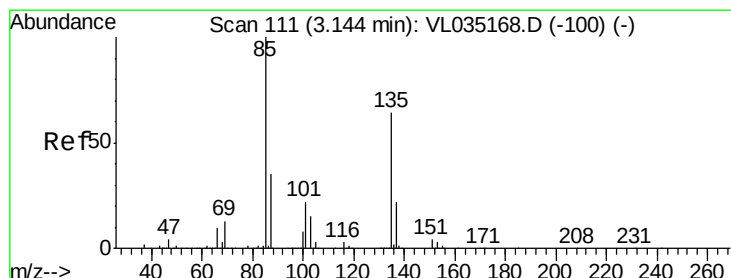
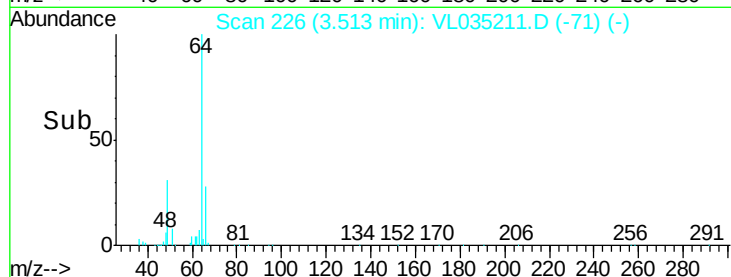
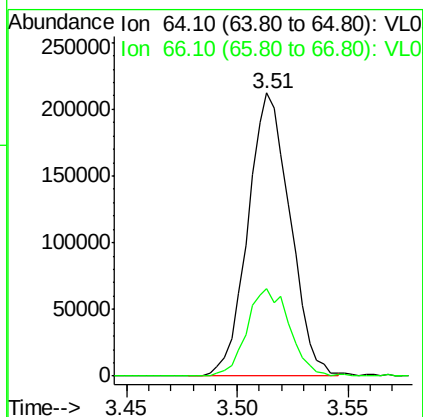
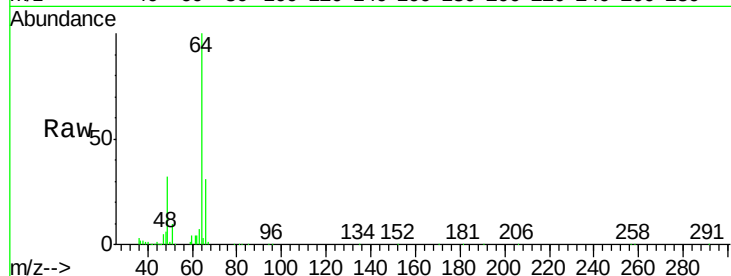
66 30.8 24.6 36.8

Manual Integrations

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7/23/2020 3:00:14 PM



#8

Dichlorotetrafluoroethane

Concen: 8.921 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035211.D

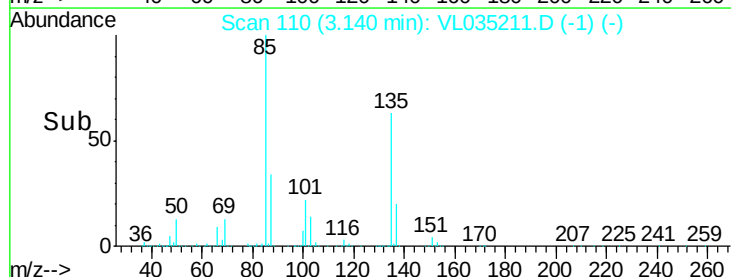
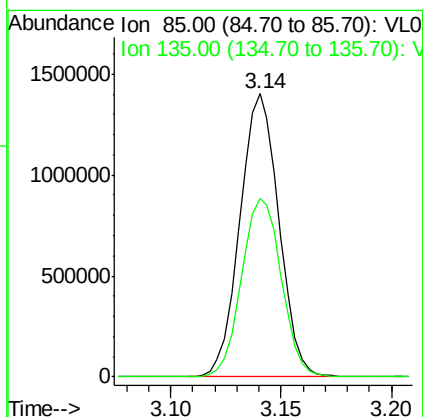
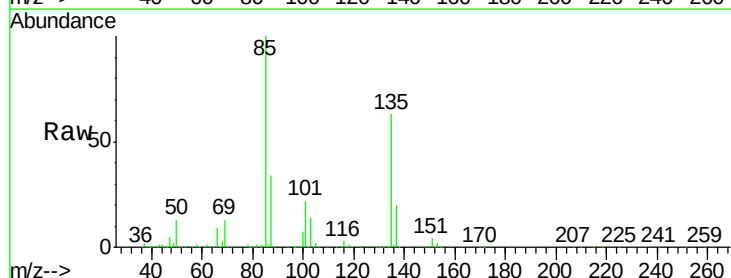
Acq: 21 Jul 2020 12:23

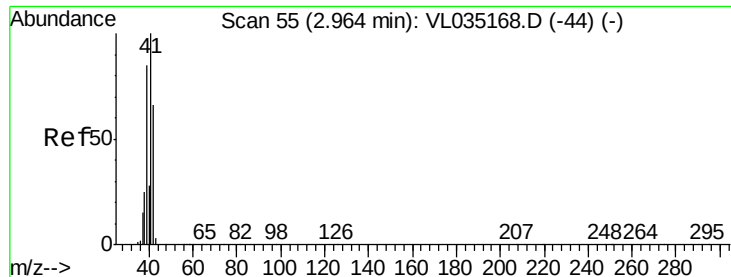
Tgt Ion: 85 Resp: 1723728

Ion Ratio Lower Upper

85 100

135 64.5 52.1 78.1





#9

Propene

Concen: 9.487 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 41 Resp: 498191

Ion Ratio Lower Upper

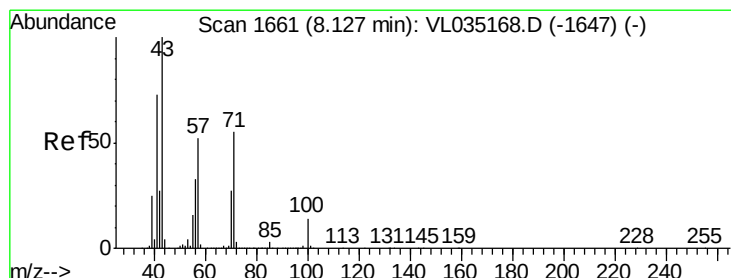
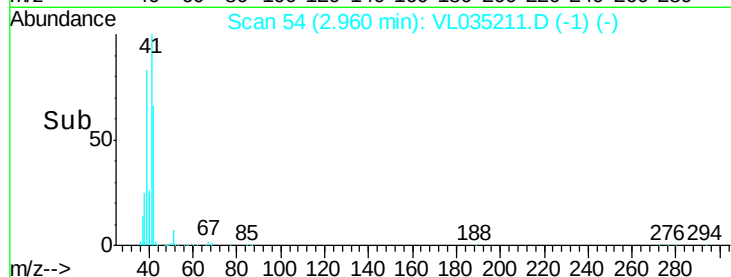
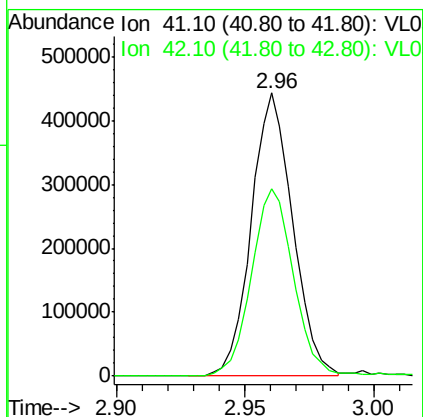
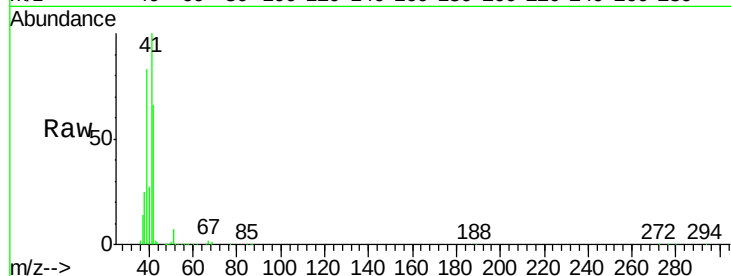
41 100

42 68.3 54.6 81.8

Manual Integrations
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7/23/2020 3:00:14 PM



#10

Heptane

Concen: 10.592 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035211.D

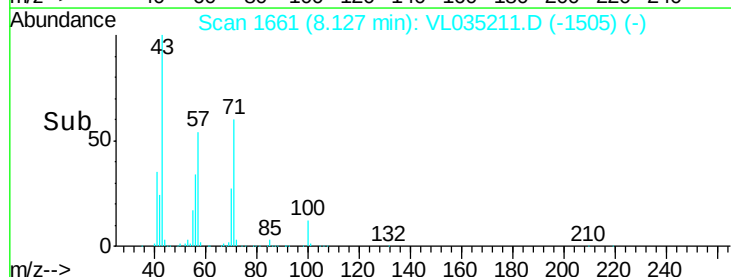
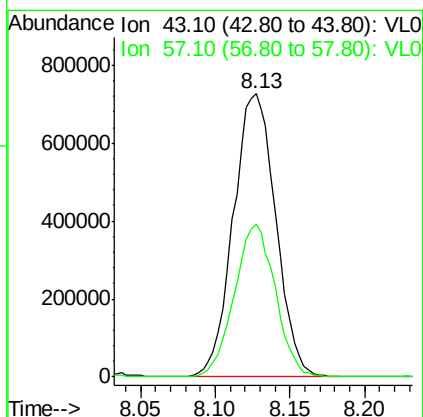
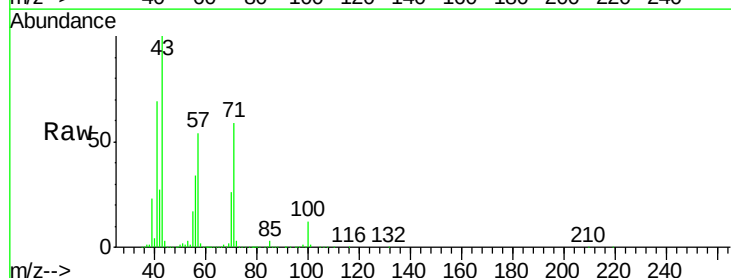
Acq: 21 Jul 2020 12:23

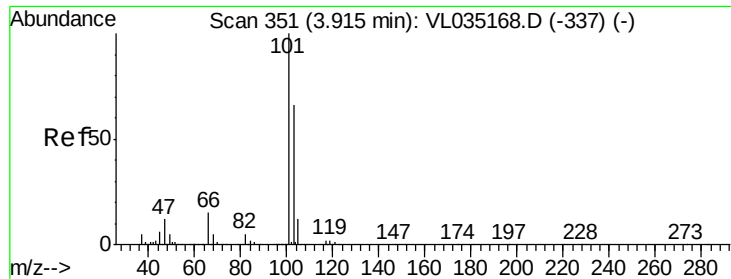
Tgt Ion: 43 Resp: 1427843

Ion Ratio Lower Upper

43 100

57 52.3 41.8 62.6





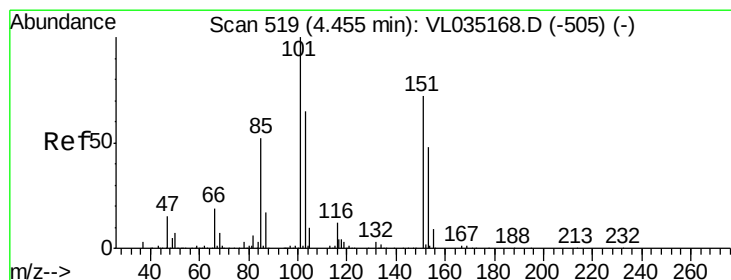
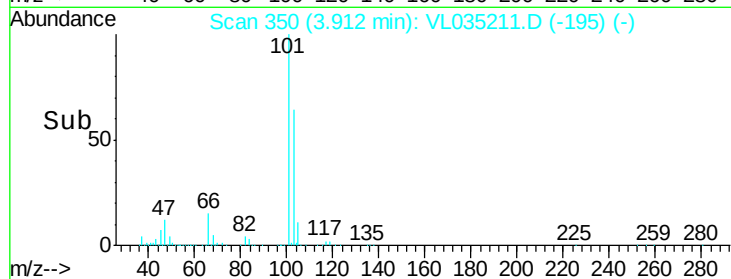
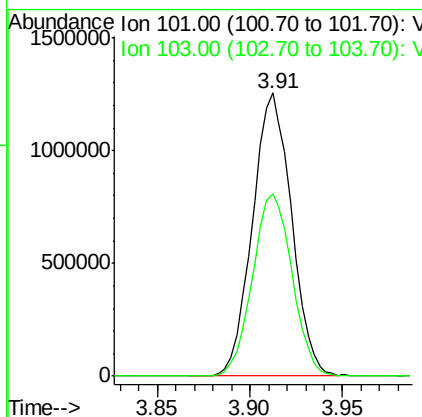
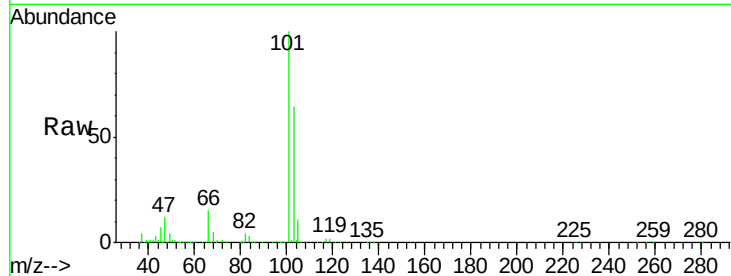
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 Trichlorofluoromethane
 Concen: 9.193 ppbv
 RT: 3.91 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion:101 Resp: 1830179
 Ion Ratio Lower Upper
 101 100
 103 64.2 53.1 79.7

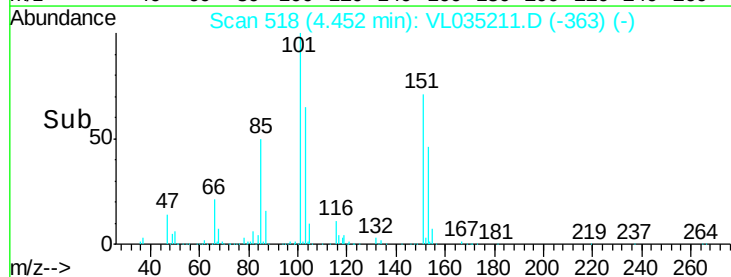
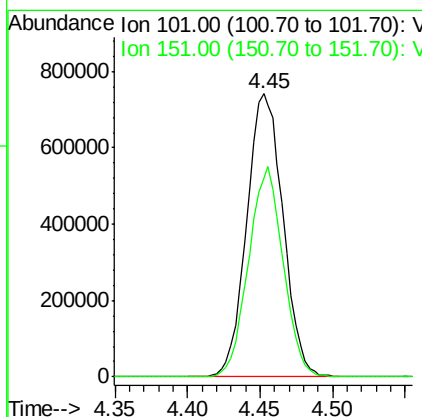
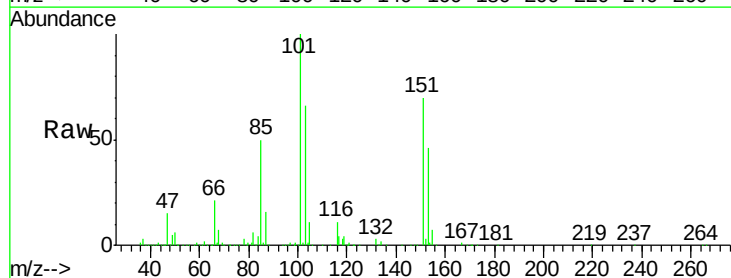
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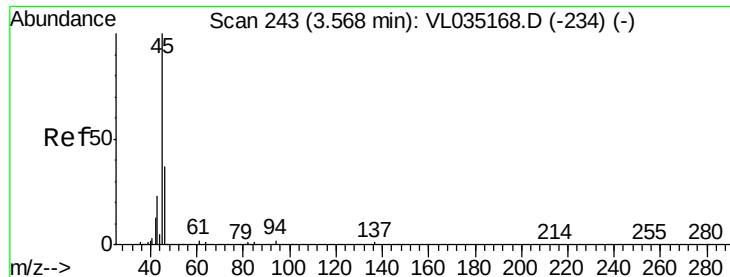
MMDadoda
 7/23/2020 3:00:14 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.238 ppbv
 RT: 4.45 min Scan# 518
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion:101 Resp: 1291630
 Ion Ratio Lower Upper
 101 100
 151 71.0 57.0 85.4





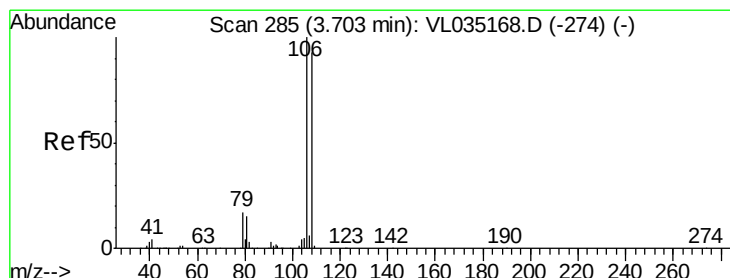
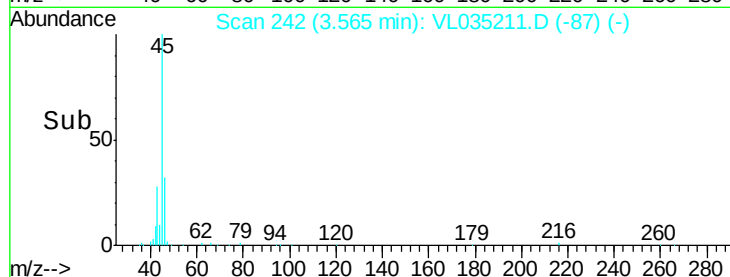
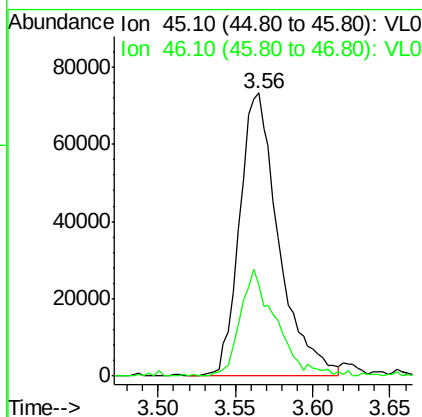
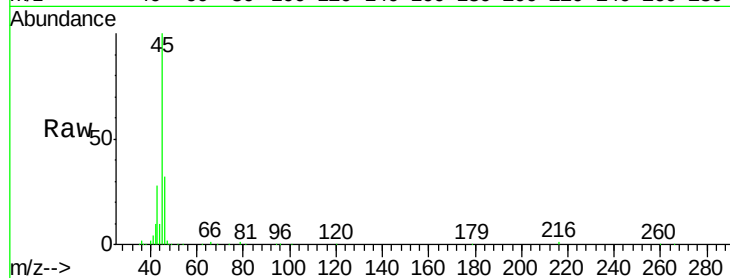
#13
Ethanol
Concen: 7.708 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.0	16.2	65.0

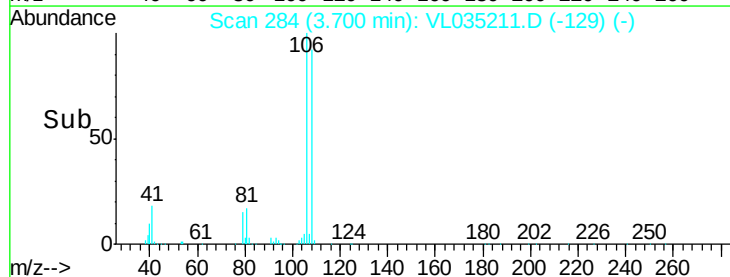
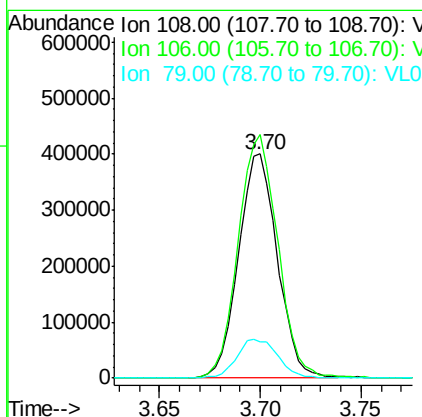
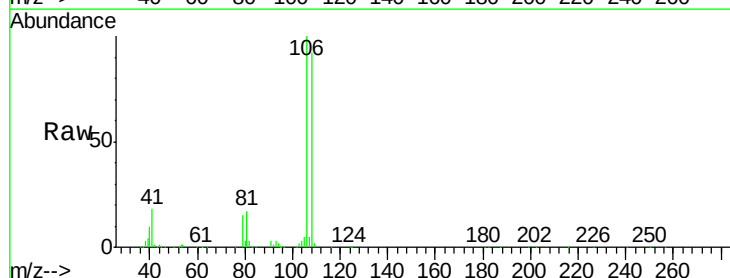
Manual Integrations
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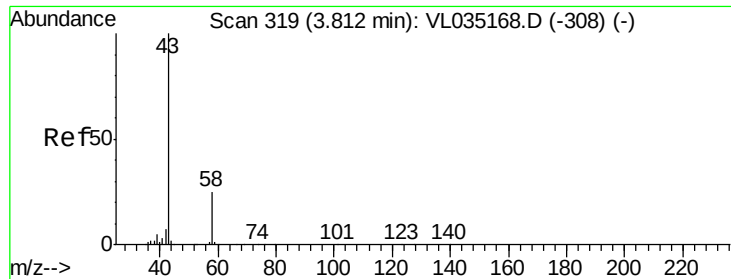
MMDadoda
7/23/2020 3:00:14 PM



#14
Bromoethene
Concen: 9.421 ppbv
RT: 3.70 min Scan# 284
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion	Ratio	Lower	Upper
108	100		
106	110.9	86.2	129.2
79	18.8	15.0	22.6





#15

Acetone

Concen: 8.124 ppbv

RT: 3.81 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 43 Resp: 1383563

Ion Ratio Lower Upper

43 100

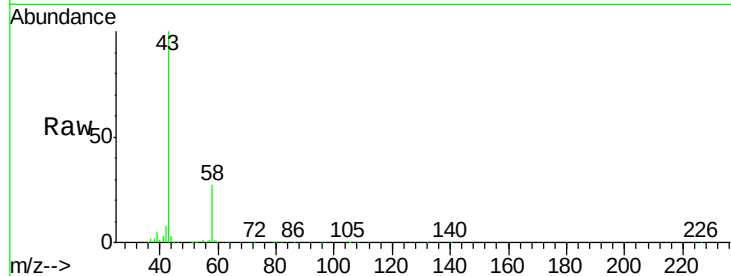
58 27.1 21.3 31.9

Manual Integrations

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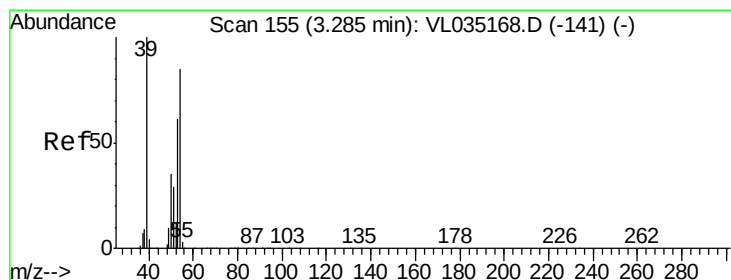
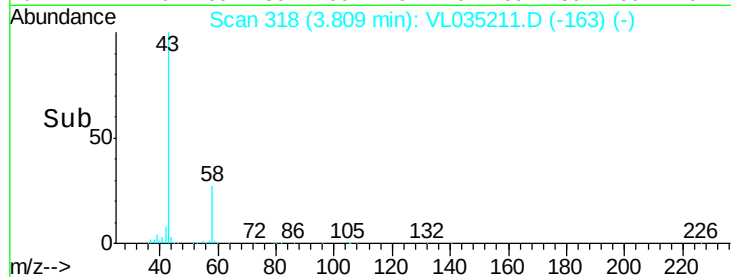
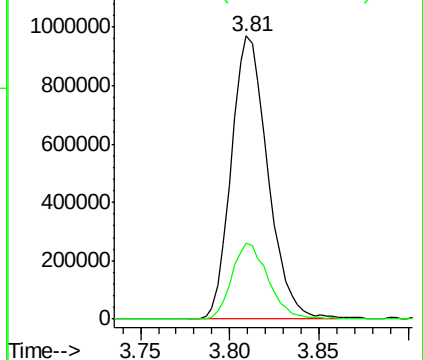
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.842 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.00 min

Lab File: VL035211.D

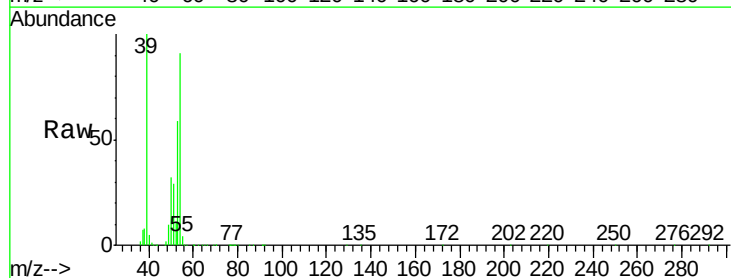
Acq: 21 Jul 2020 12:23

Tgt Ion: 39 Resp: 643376

Ion Ratio Lower Upper

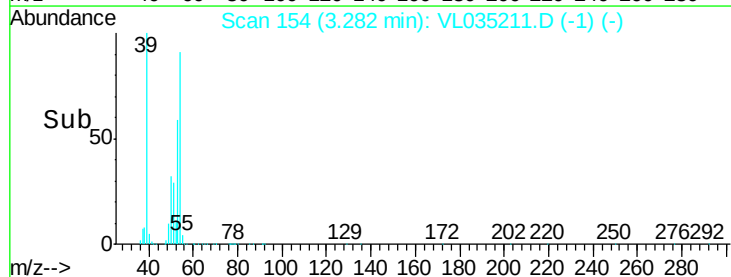
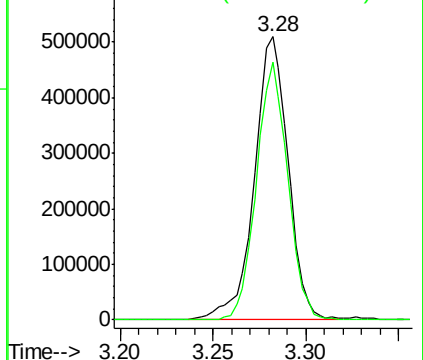
39 100

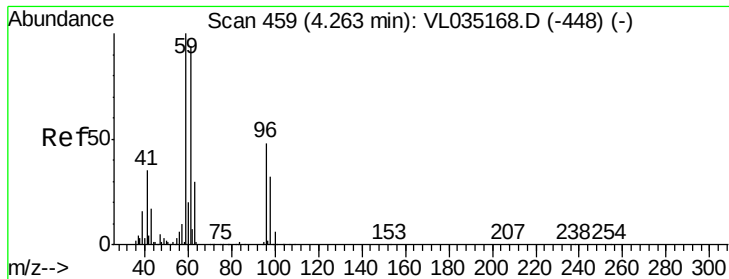
54 85.1 67.2 100.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

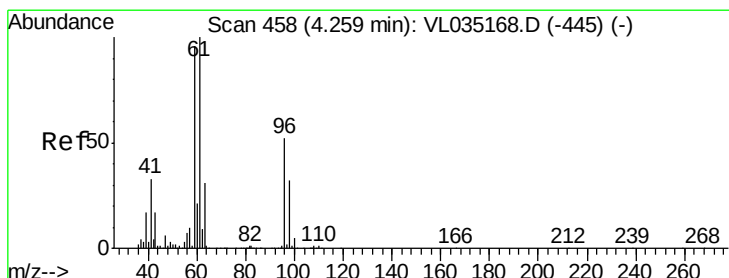
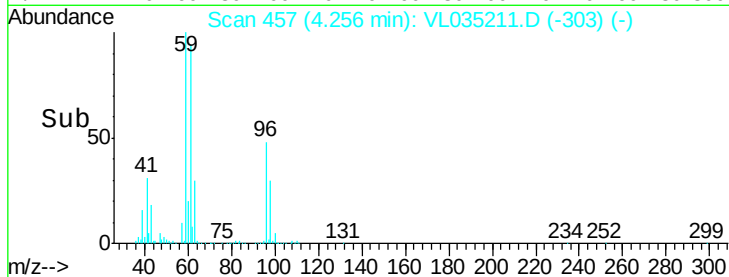
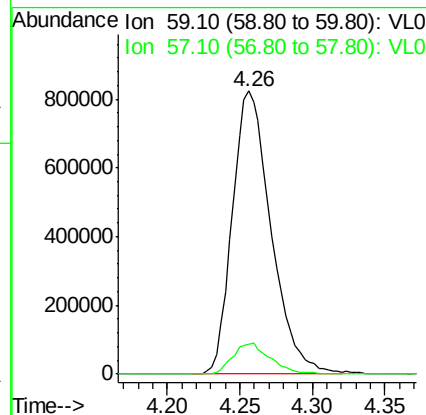
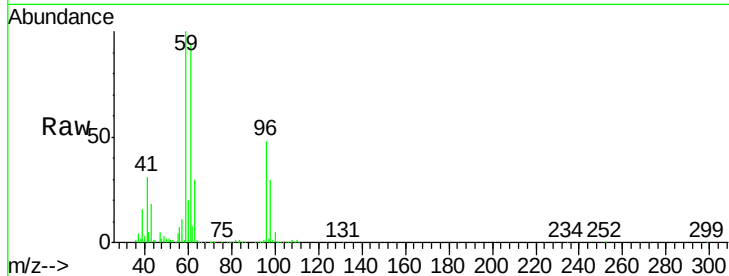
tert-Butyl alcohol
Concen: 10.136 ppbv
RT: 4.26 min Scan# 457
Delta R.T. -0.01 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion: 59 Resp: 1527355
Ion Ratio Lower Upper
59 100
57 10.9 8.6 12.8

Manual Integrations
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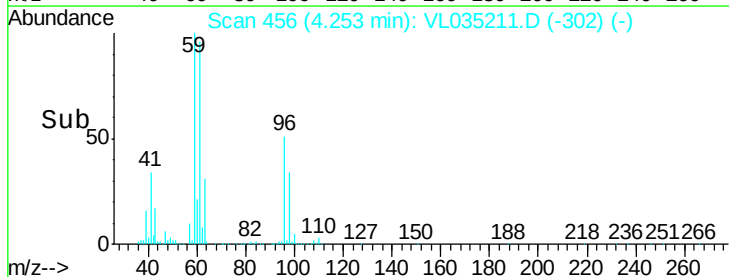
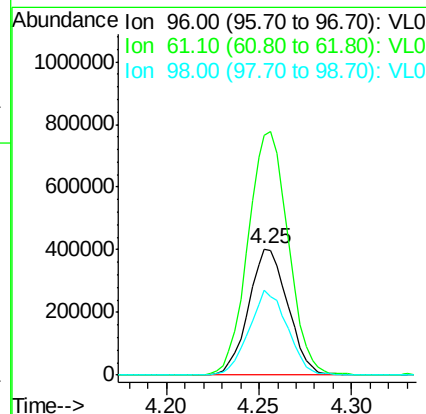
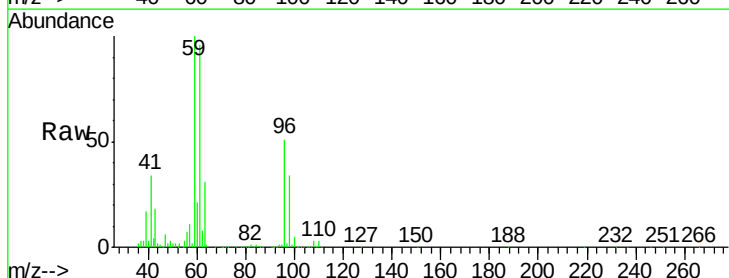
MMDadoda
7/23/2020 3:00:14 PM

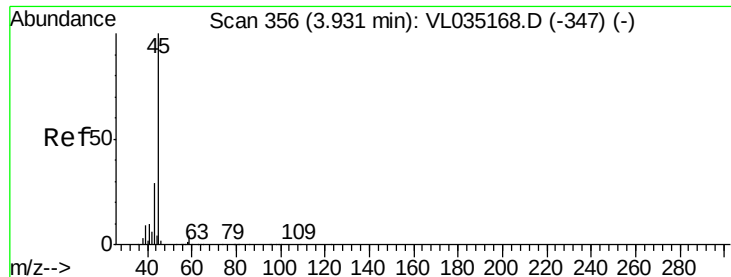


#18

1,1-Dichloroethene
Concen: 9.529 ppbv
RT: 4.25 min Scan# 456
Delta R.T. -0.01 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 96 Resp: 589893
Ion Ratio Lower Upper
96 100
61 189.3 152.9 229.3
98 67.6 48.7 73.1





#19

Isopropyl Alcohol

Concen: 9.710 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 45 Resp: 997660

Ion Ratio Lower Upper

45 100

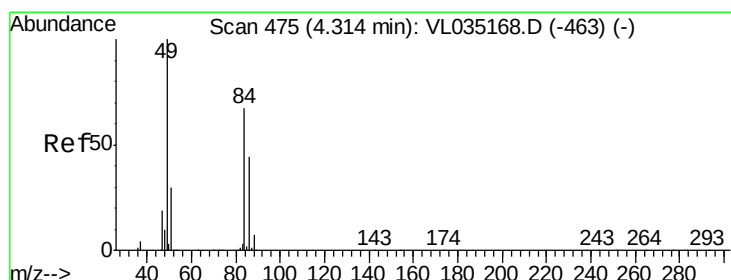
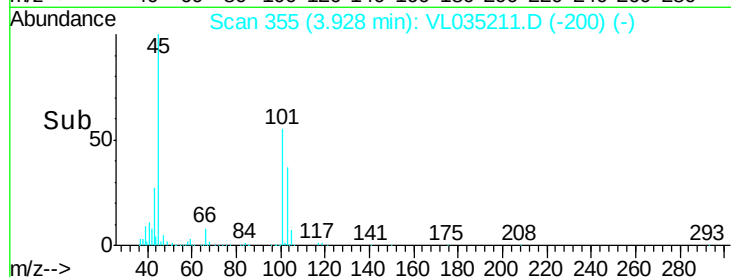
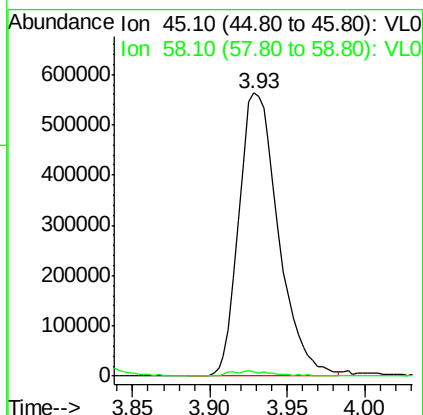
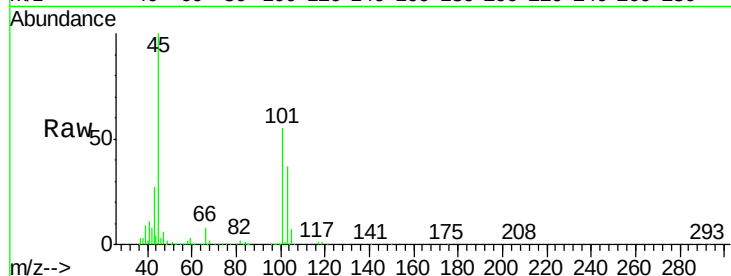
58 2.4 2.1 3.1

Manual Integrations

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7/23/2020 3:00:14 PM



#20

Methylene Chloride

Concen: 7.520 ppbv

RT: 4.31 min Scan# 474

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion: 84 Resp: 557236

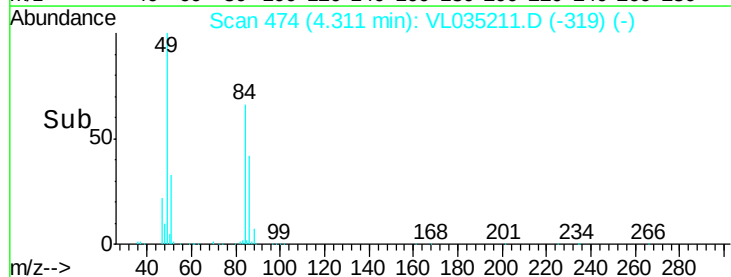
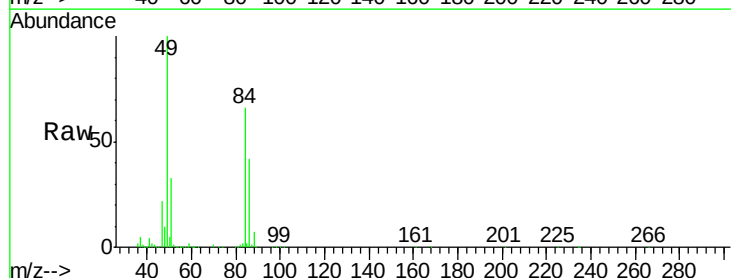
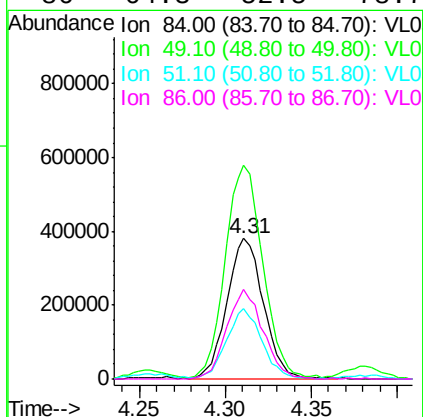
Ion Ratio Lower Upper

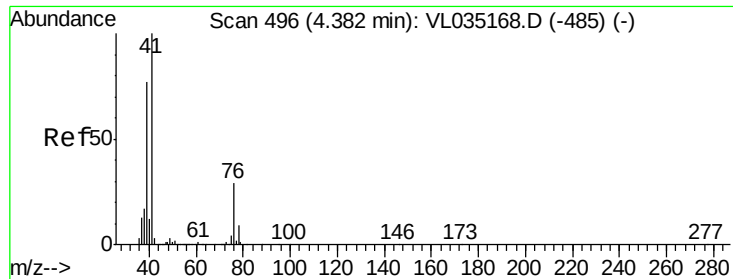
84 100

49 151.5 119.4 179.0

51 49.0 36.6 55.0

86 64.3 52.5 78.7





#21

Allvl Chloride

Concen: 9.608 ppbv

RT: 4.38 min Scan# 495

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

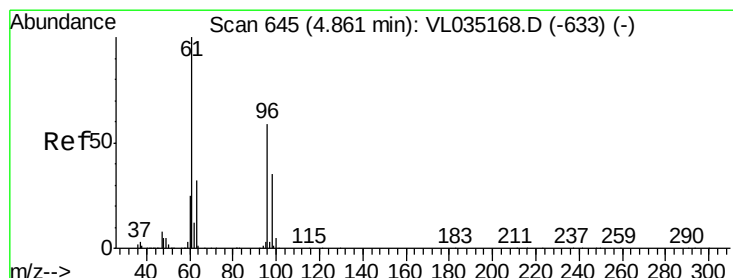
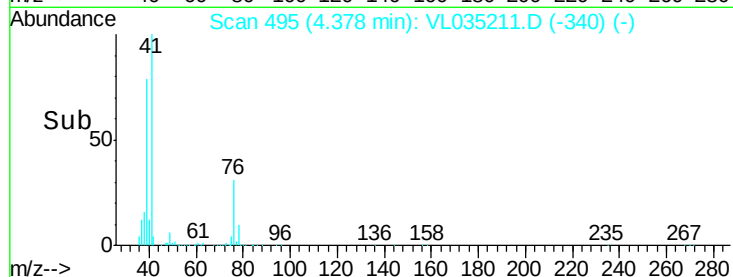
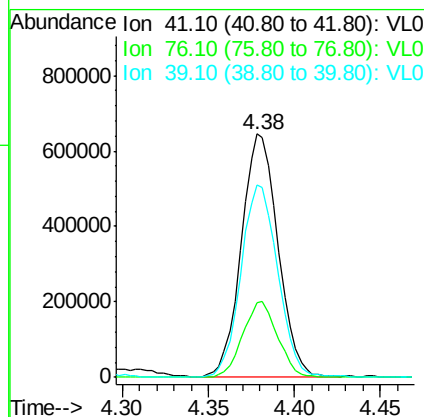
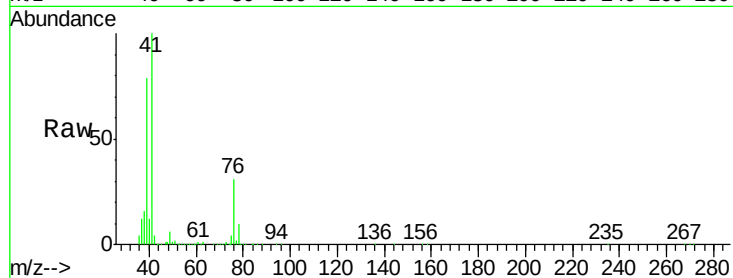
ClientSampleId :

VL0721ABS01

Tot Ion:	41	Resp:	952399
Ion Ratio		Lower	Upper
41	100		
76	29.9	23.5	35.3
39	79.7	63.4	95.0

Manual Integrations
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7/23/2020 3:00:14 PM



#22

trans-1,2-Dichloroethene

Concen: 9.533 ppbv

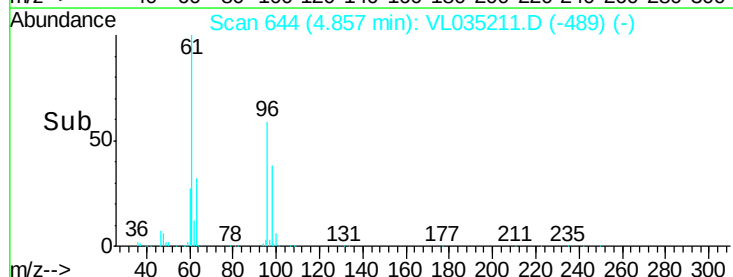
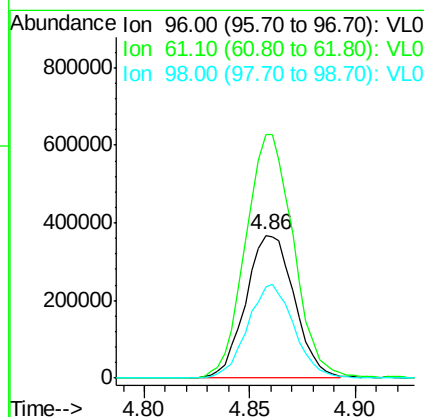
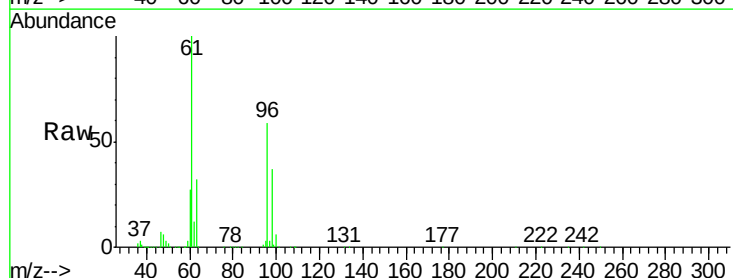
RT: 4.86 min Scan# 644

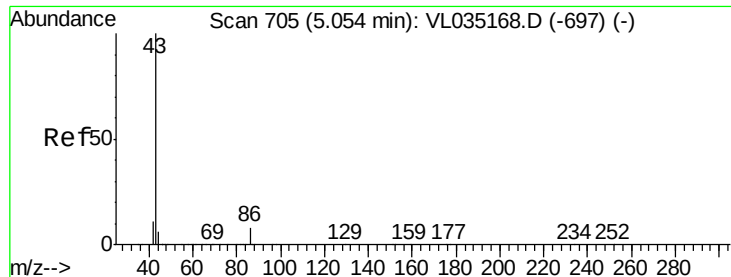
Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion:	96	Resp:	589189
Ion Ratio		Lower	Upper
96	100		
61	170.3	136.5	204.7
98	63.8	47.5	71.3





#23

Vinyl Acetate

Concen: 9.723 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tot Ion: 43 Resp: 1792366

Ion Ratio Lower Upper

43 100

86 7.8 6.2 9.2

42 10.4 9.1 13.7

44 5.6 4.6 6.8

Instrument :

MSVOA_L

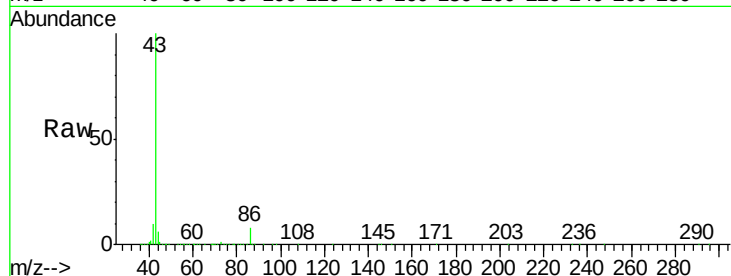
ClientSampleId :

VL0721ABS01

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7/23/2020 3:00:14 PM

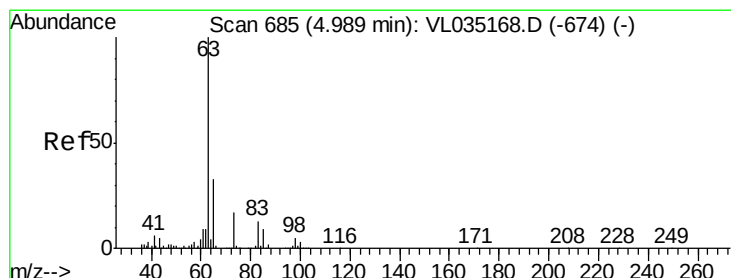
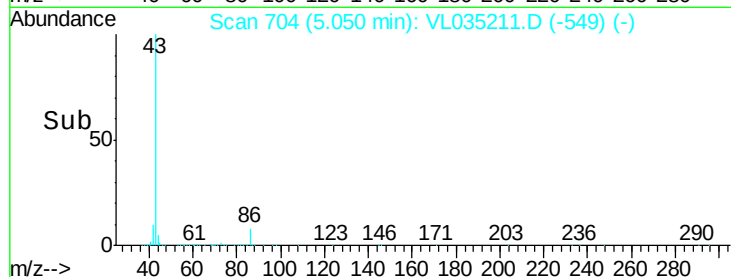
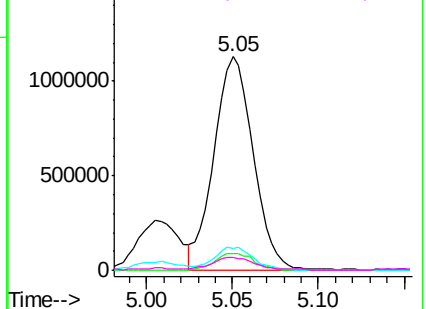


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.251 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

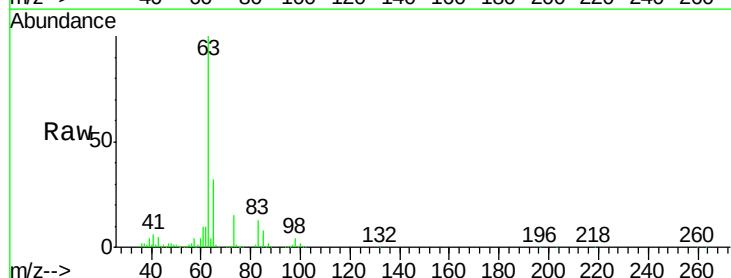
Tgt Ion: 63 Resp: 1464517

Ion Ratio Lower Upper

63 100

98 4.3 2.4 7.1

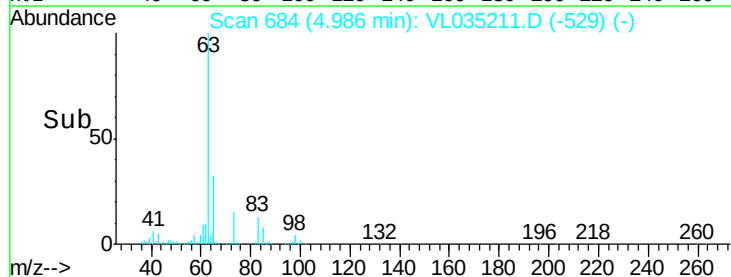
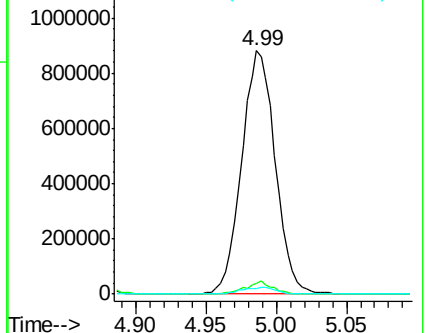
100 2.2 1.4 4.0

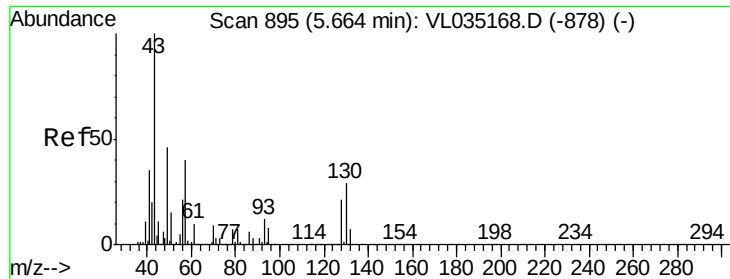


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.512 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 43 Resp: 2514009

Ion Ratio Lower Upper

43 100

45 10.4 8.5 12.7

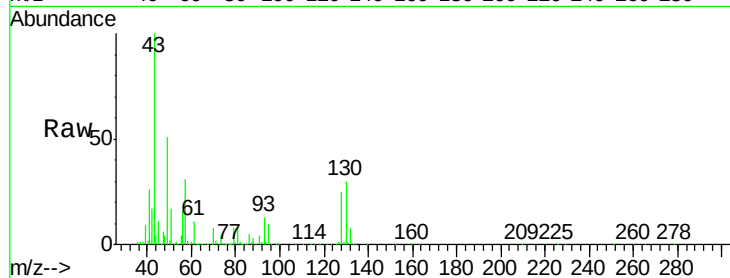
61 9.9 8.1 12.1

70 8.0 6.3 9.5

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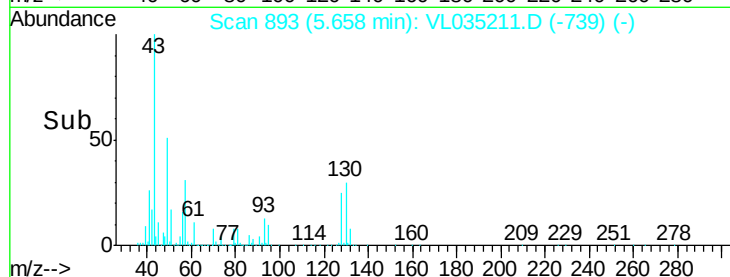
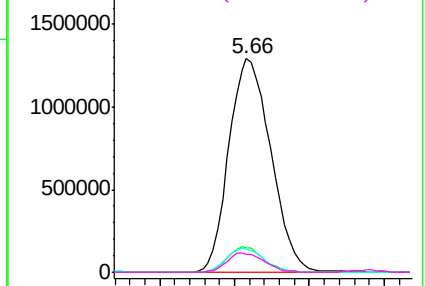
Abundance

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: 9.809 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion: 57 Resp: 1143073

Ion Ratio Lower Upper

57 100

41 90.5 72.9 109.3

43 222.2 179.5 269.3

56 53.9 42.9 64.3

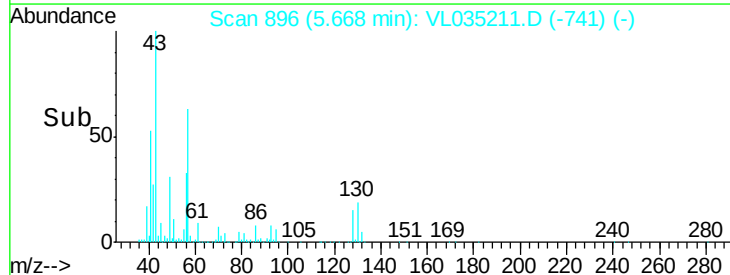
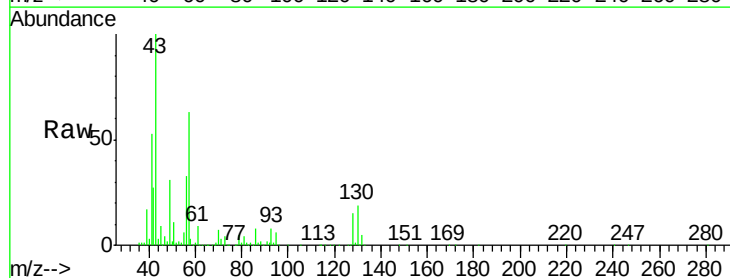
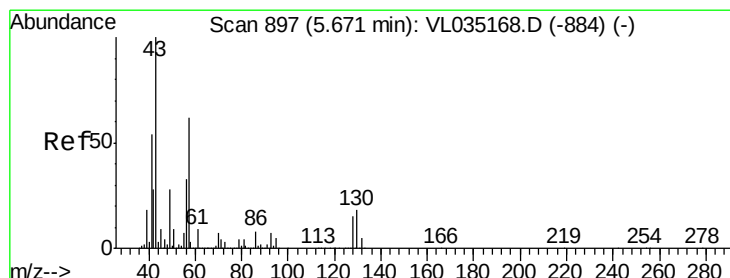
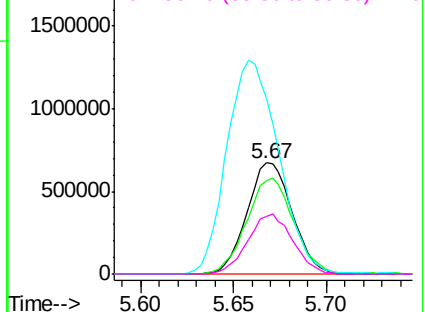
Abundance

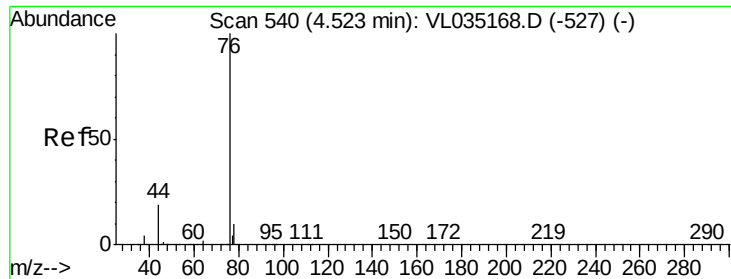
Ion 57.10 (56.80 to 57.80): VL0

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: 9.733 ppbv

RT: 4.52 min Scan# 539

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 76 Resp: 1583758

Ion Ratio Lower Upper

76 100

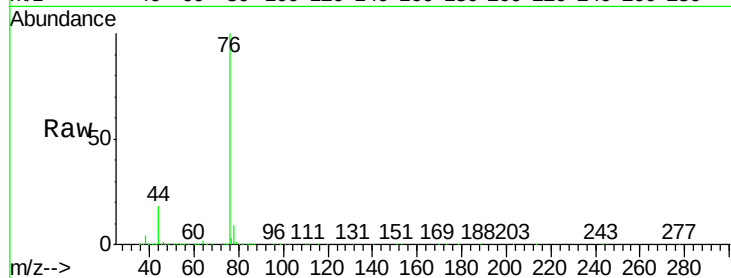
44 20.0 14.9 22.3

78 9.3 7.5 11.3

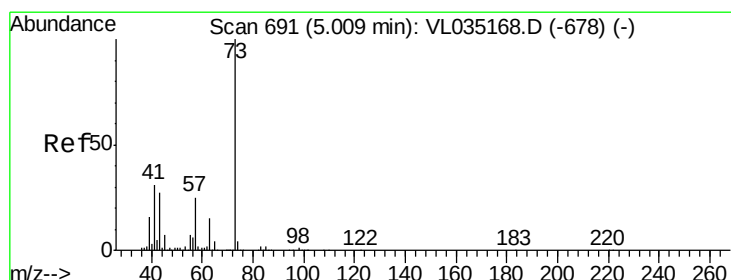
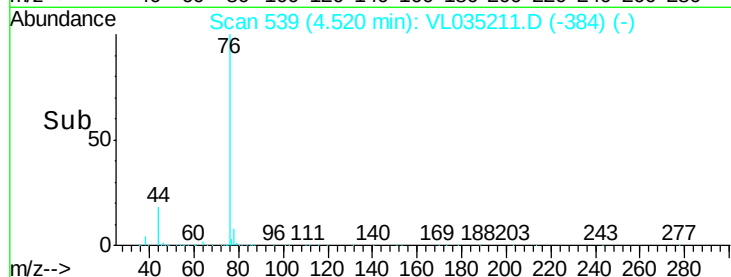
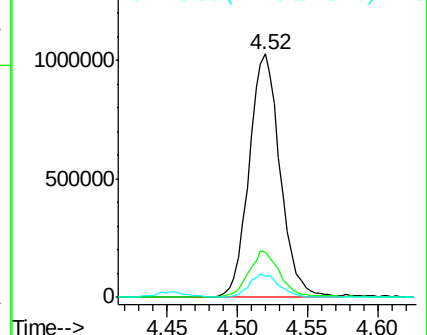
Manual Integrations
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.849 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL035211.D

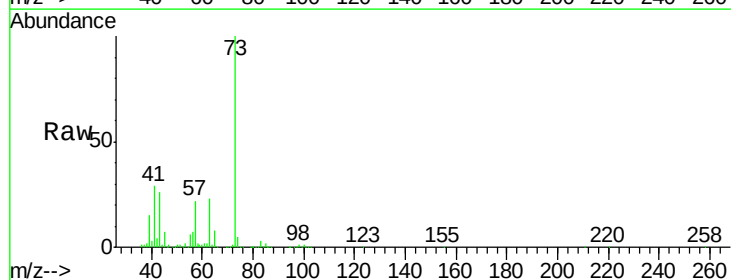
Acq: 21 Jul 2020 12:23

Tgt Ion: 73 Resp: 1748510

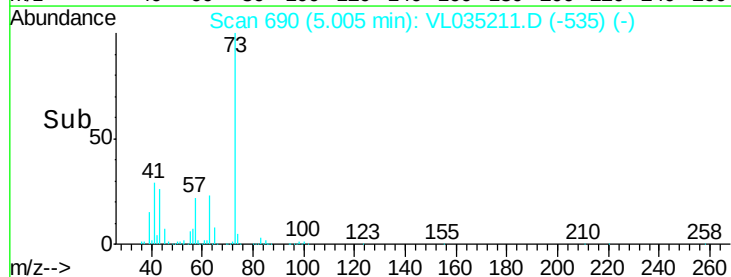
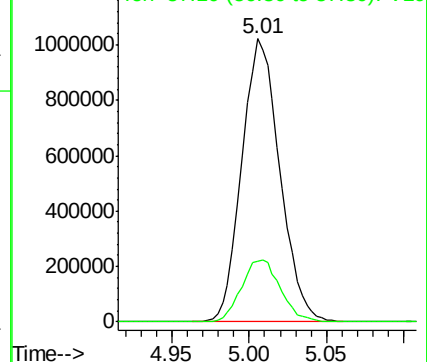
Ion Ratio Lower Upper

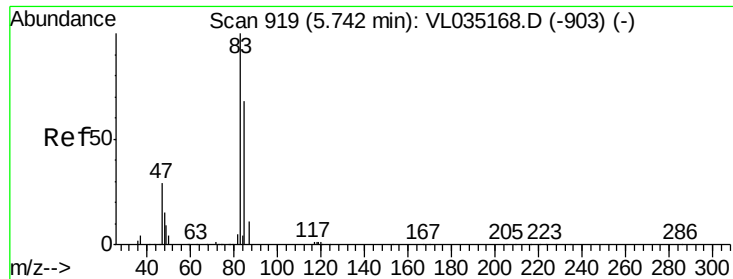
73 100

57 22.7 18.1 27.1



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





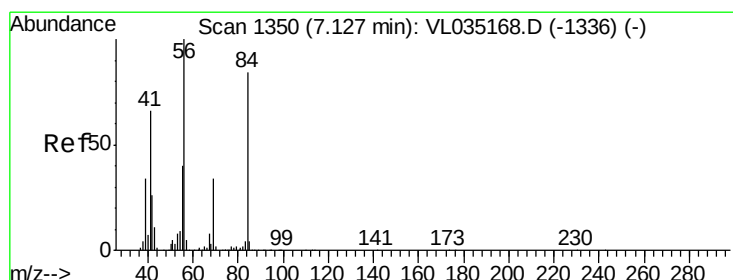
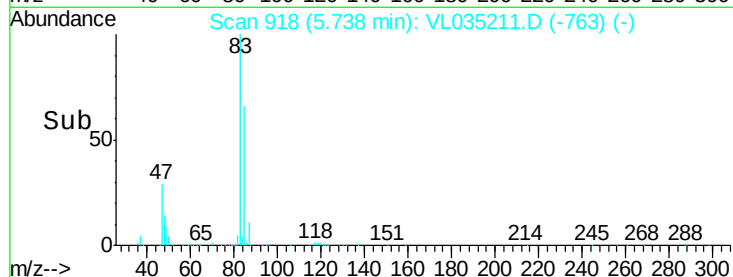
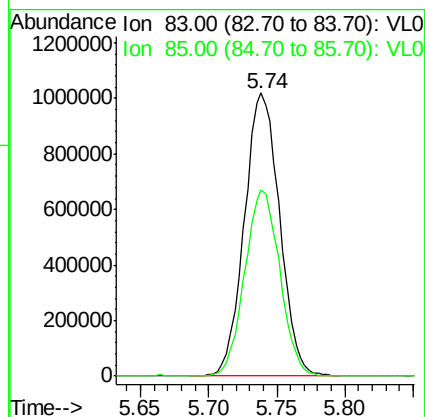
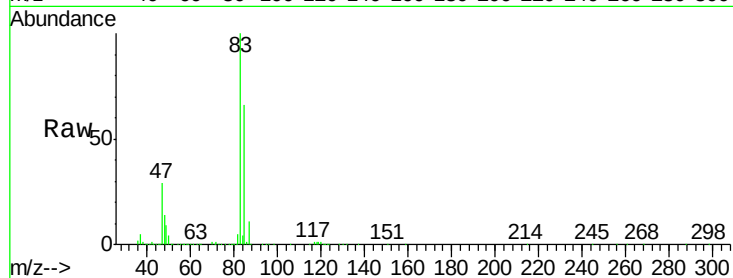
#29
Chloroform
Concen: 9.353 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion: 83 Resp: 1827250
Ion Ratio Lower Upper
83 100
85 65.8 54.3 81.5

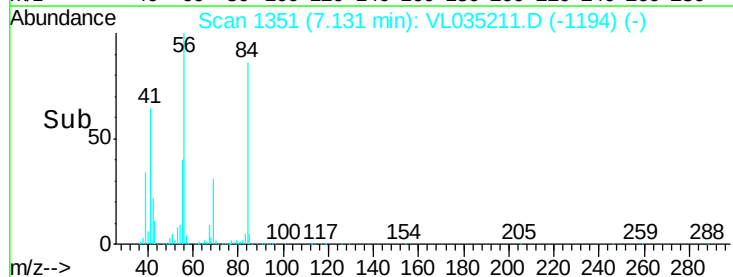
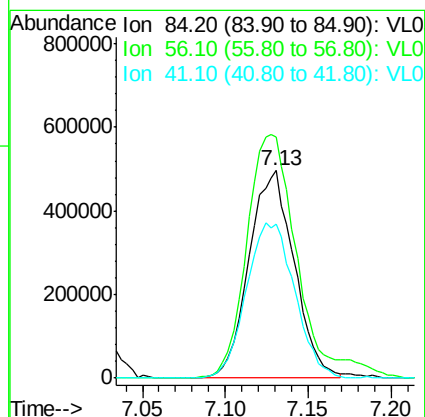
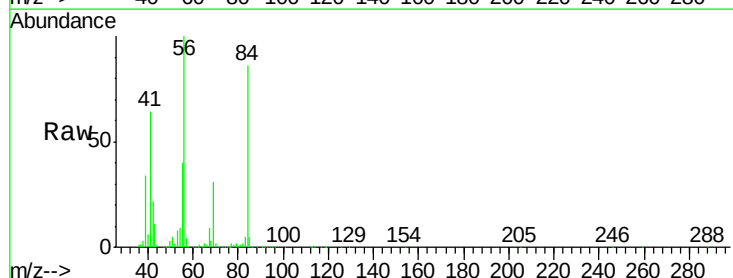
Manual Integrations
APPROVED

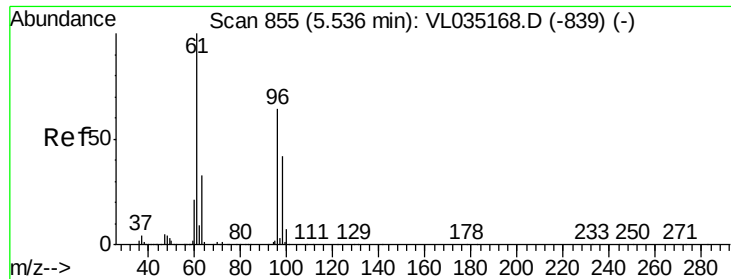
MMDadoda
7/23/2020 3:00:14 PM



#30
Cyclohexane
Concen: 10.883 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 84 Resp: 938328
Ion Ratio Lower Upper
84 100
56 132.0 105.6 158.4
41 80.4 64.9 97.3





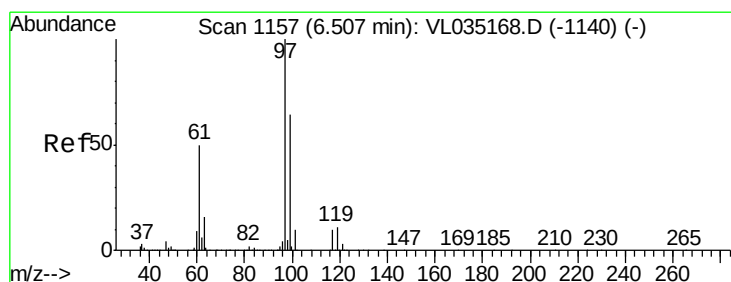
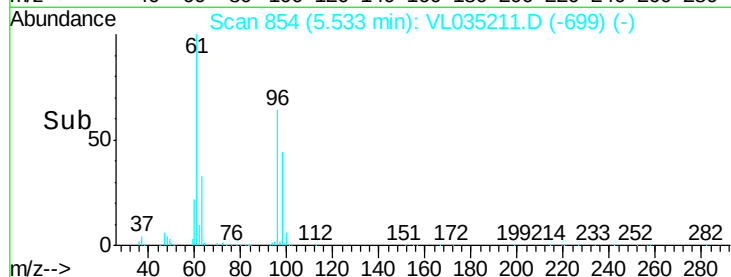
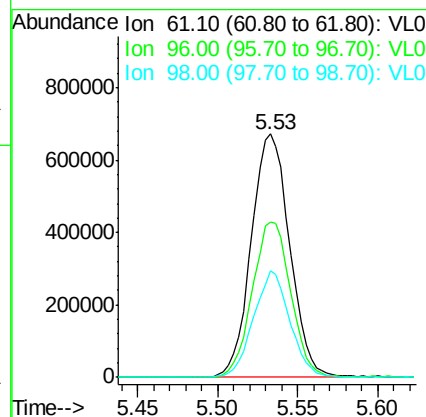
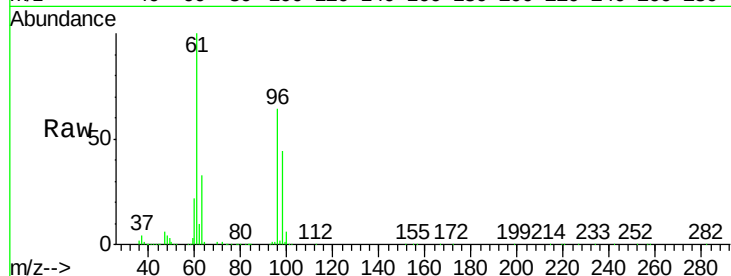
#31
 cis-1,2-Dichloroethene
 Concen: 9.956 ppbv
 RT: 5.53 min Scan# 854
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	63.7	51.3	76.9	
98	43.7	33.8	50.8	

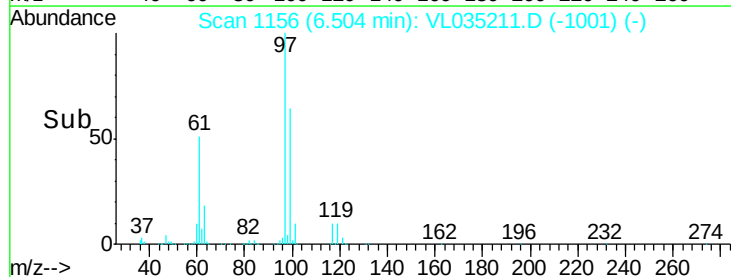
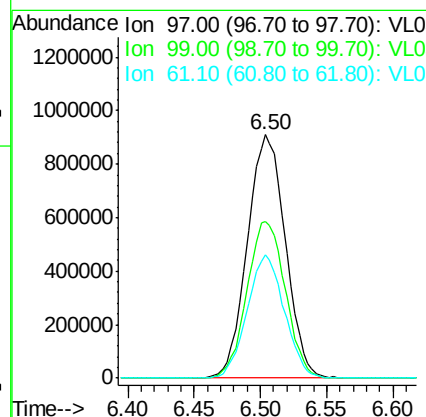
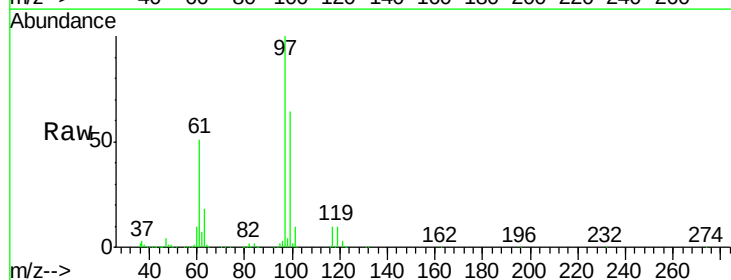
Manual Integrations
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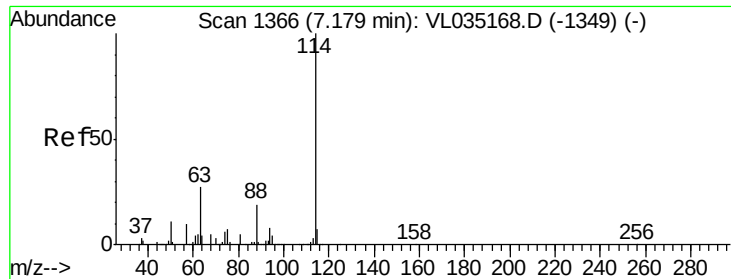
MMDadoda
 7/23/2020 3:00:14 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.258 ppbv
 RT: 6.50 min Scan# 1156
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	65.0	51.2	76.8	
61	49.6	40.9	61.3	





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion:114 Resp: 2958373

Ion Ratio Lower Upper

114 100

63 27.5 22.0 33.0

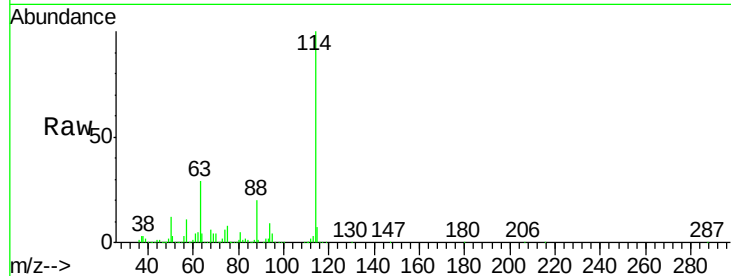
88 19.3 15.4 23.0

Manual Integrations

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MMDadoda

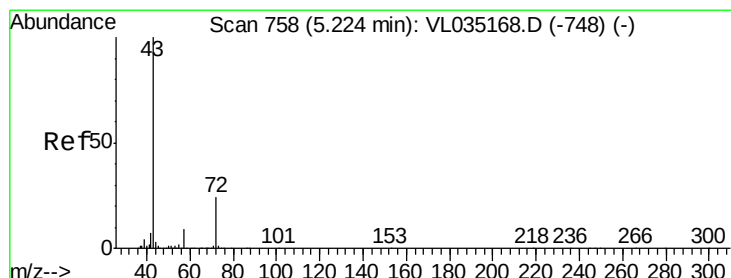
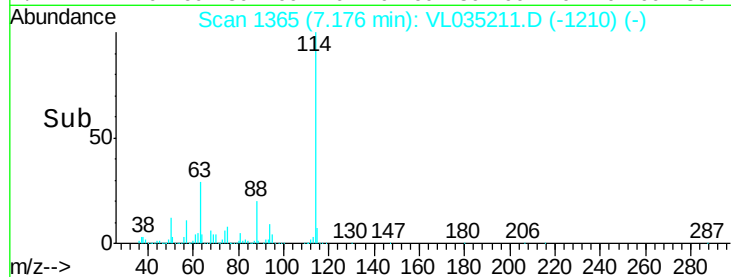
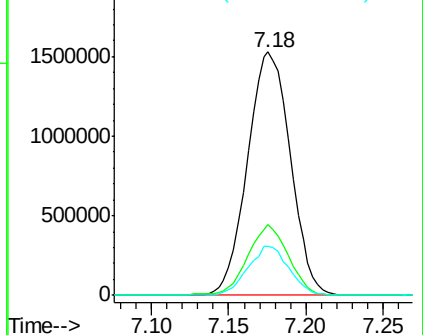
7/23/2020 3:00:14 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.745 ppbv

RT: 5.22 min Scan# 757

Delta R.T. -0.00 min

Lab File: VL035211.D

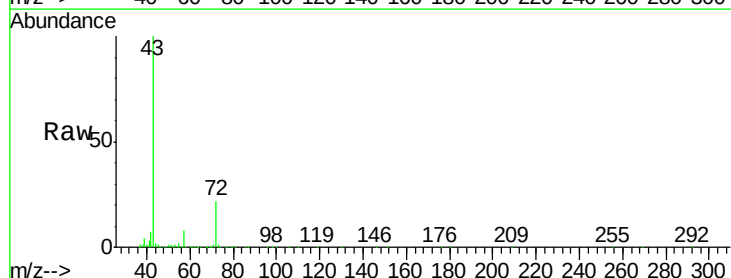
Acq: 21 Jul 2020 12:23

Tgt Ion: 43 Resp: 1538759

Ion Ratio Lower Upper

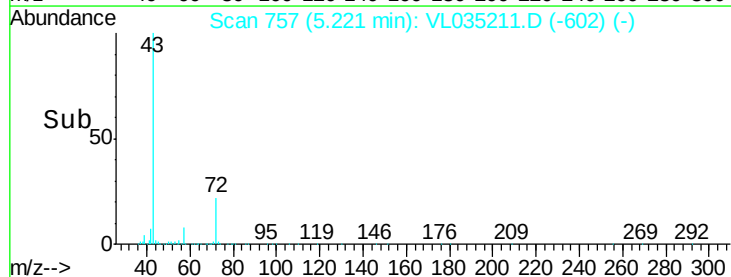
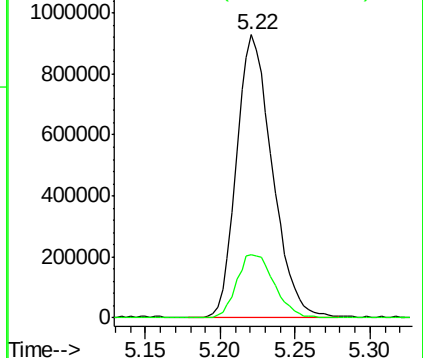
43 100

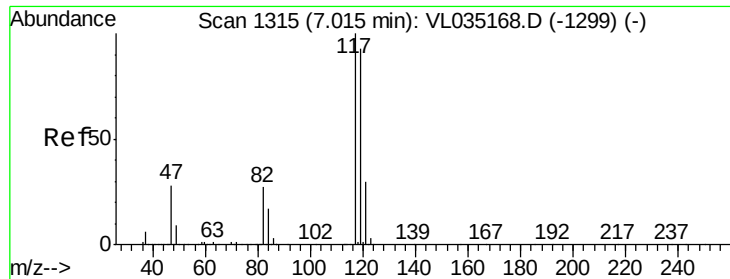
72 23.6 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





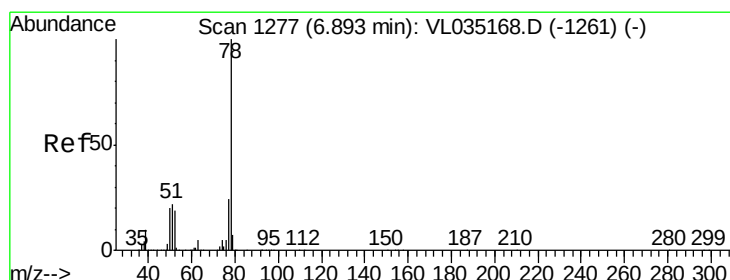
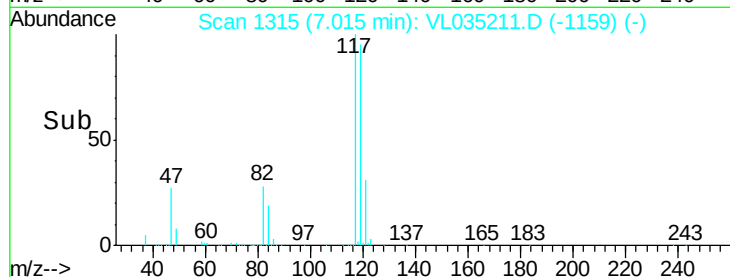
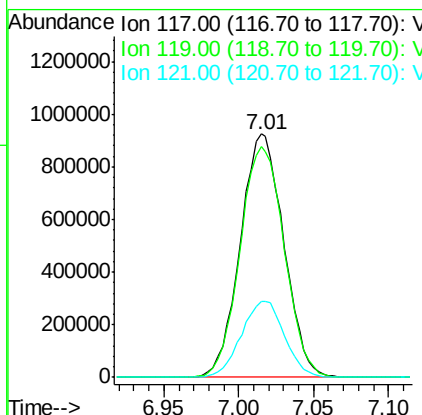
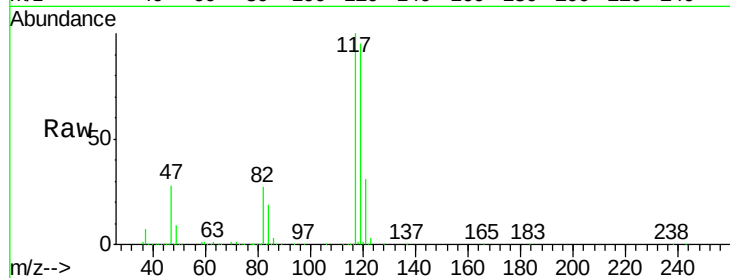
#35
Carbon Tetrachloride
Concen: 9.729 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion	Ion	Ratio	Lower	Upper
117	100			
119	94.9	74.8	112.2	
121	31.3	24.2	36.2	

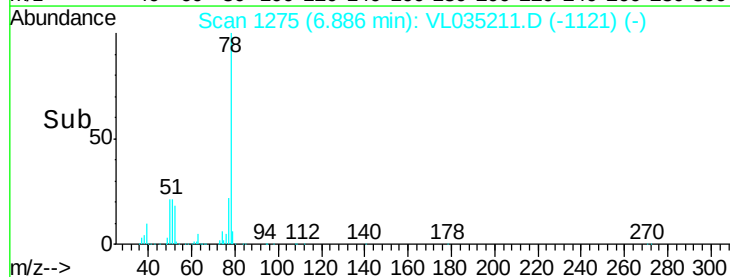
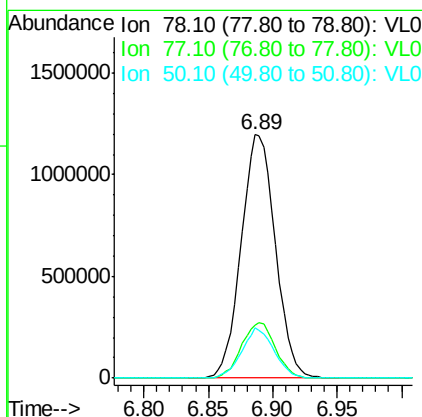
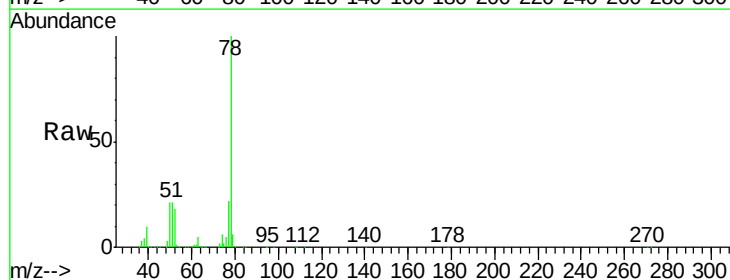
Manual Integrations
APPROVED

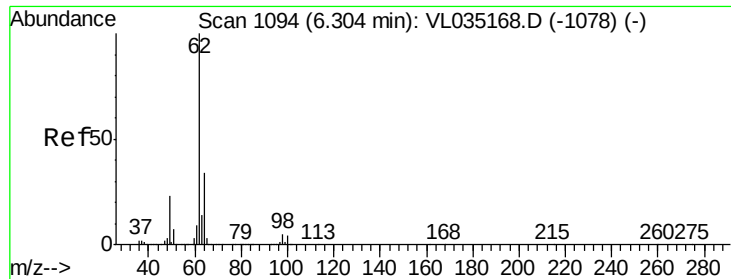
MMDadoda
7/23/2020 3:00:14 PM



#36
Benzene
Concen: 10.325 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion	Ion	Ratio	Lower	Upper
78	100			
77	21.8	19.3	28.9	
50	20.6	16.0	24.0	





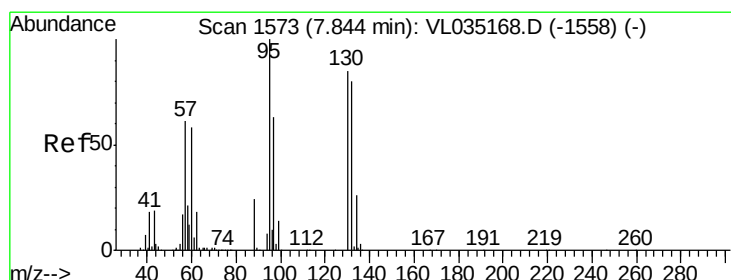
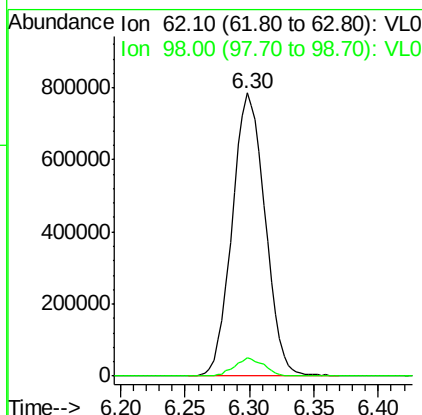
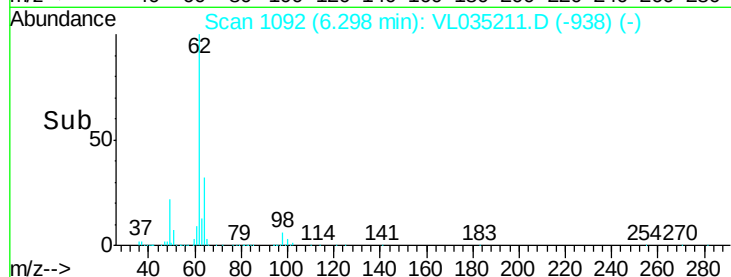
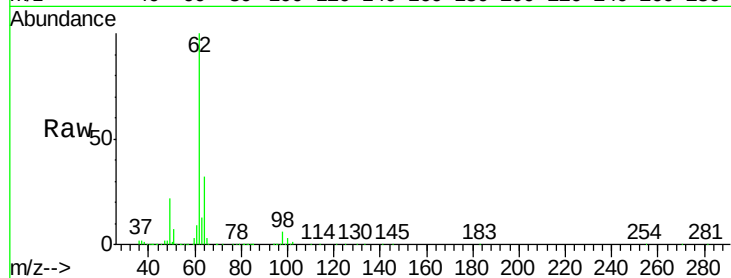
#37
 1,2-Dichloroethane
 Concen: 9.730 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. -0.01 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.8	4.6	6.8

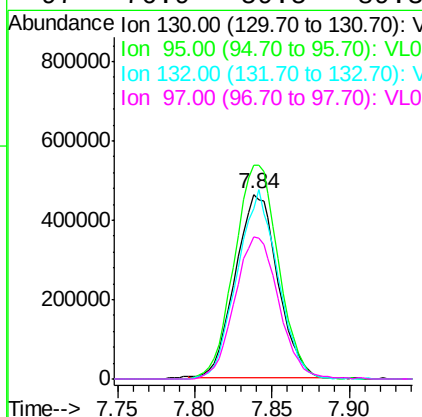
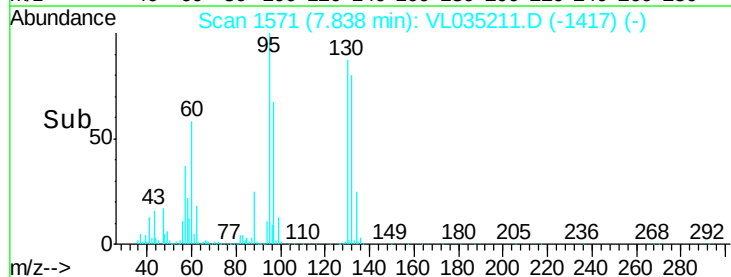
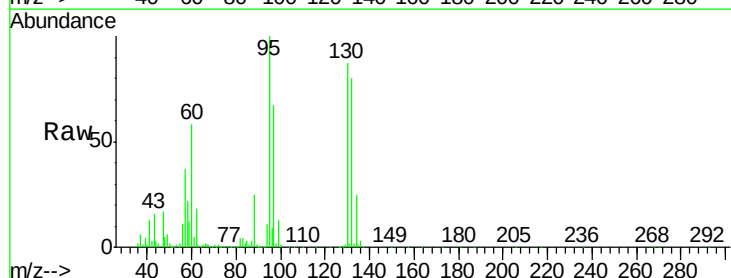
Manual Integrations
 APPROVED

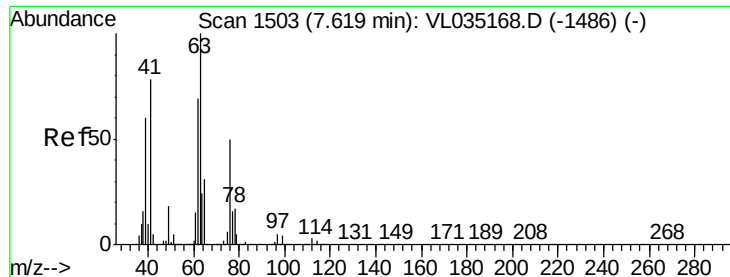
MMDadoda
 7/23/2020 3:00:14 PM



#38
 Trichloroethene
 Concen: 10.183 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.6	93.8	140.8
132	92.4	75.0	112.4
97	76.9	59.5	89.3





#39

1,2-Dichloropropane

Concen: 10.159 ppbv

RT: 7.62 min Scan# 1503

Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

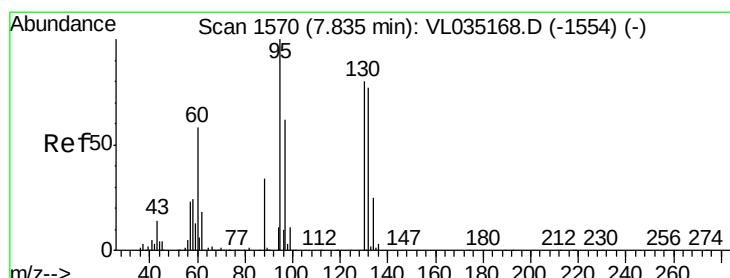
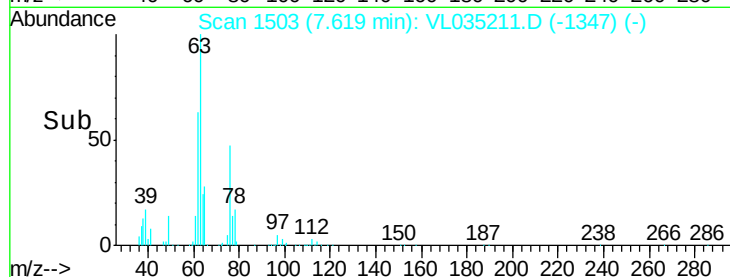
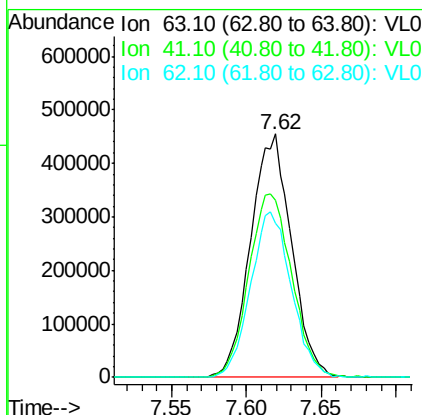
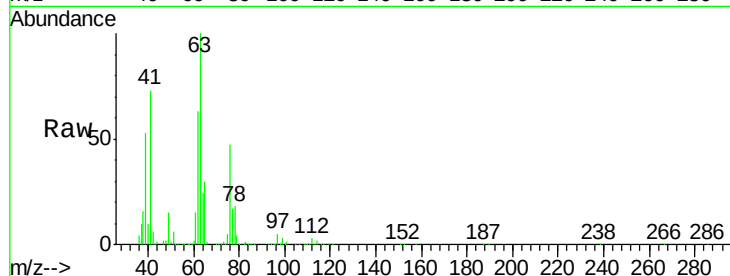
ClientSampleId :

VL0721ABS01

Tot Ion:	63	Resp:	865007
Ion Ratio	Lower	Upper	
63	100		
41	72.7	62.6	94.0
62	63.4	55.0	82.6

Manual Integrations
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MMDadoda
7/23/2020 3:00:14 PM



#40

1,4-Dioxane

Concen: 9.467 ppbv m

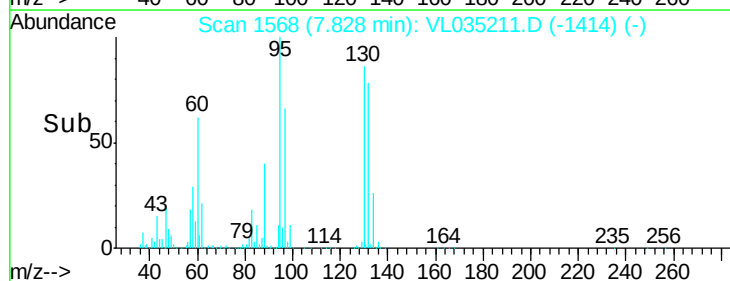
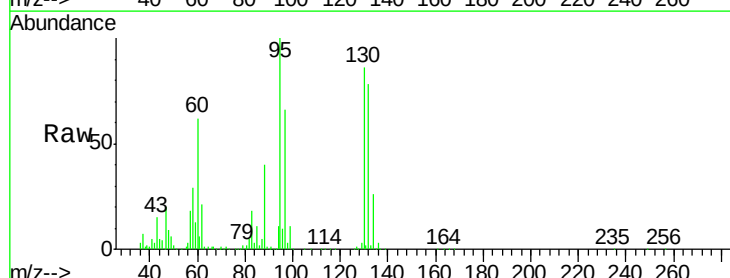
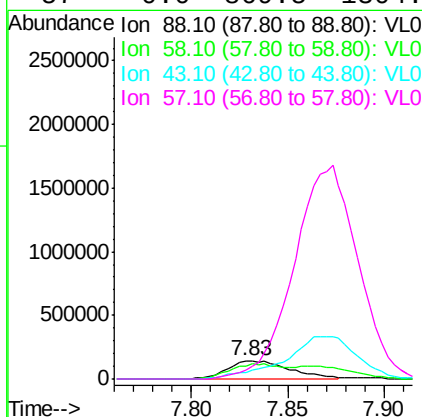
RT: 7.83 min Scan# 1568

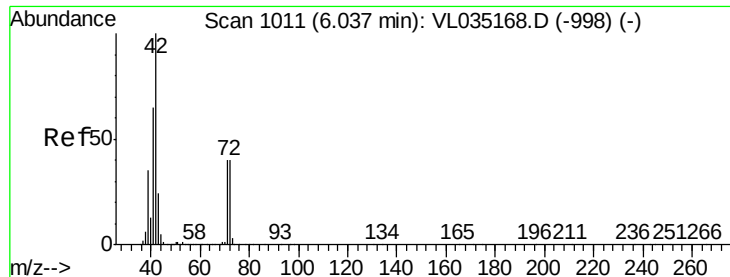
Delta R.T. -0.01 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion:	88	Resp:	320904
Ion Ratio	Lower	Upper	
88	100		
58	140.5	100.2	150.4
43	0.0	199.8	299.8#
57	0.0	869.5	1304.3#





#41

Tetrahydrofuran

Concen: 10.774 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

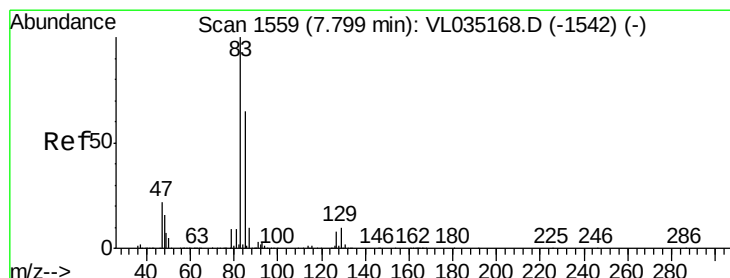
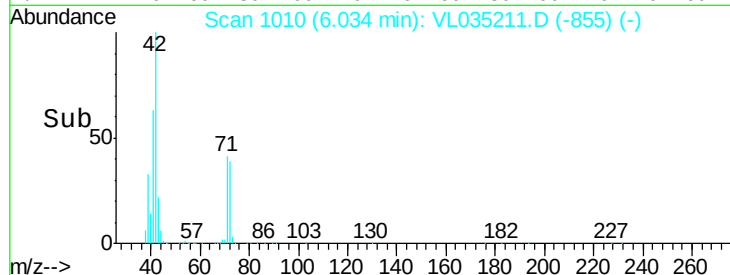
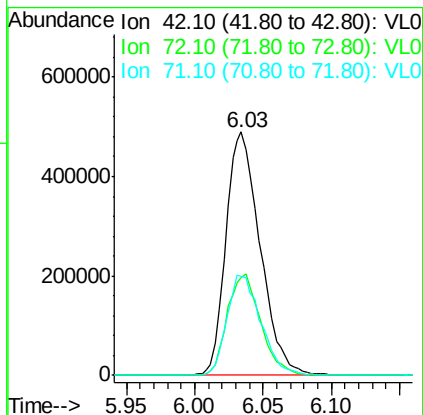
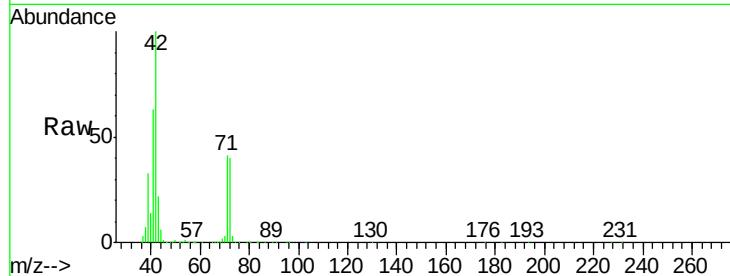
ClientSampleId :

VL0721ABS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
42	100		851265		
72	40.8	33.4	50.2		
71	41.1	31.9	47.9		

Manual Integrations
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7/23/2020 3:00:14 PM



#42

Bromodichloromethane

Concen: 10.162 ppbv

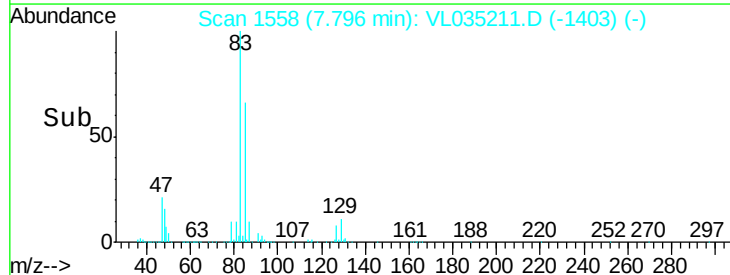
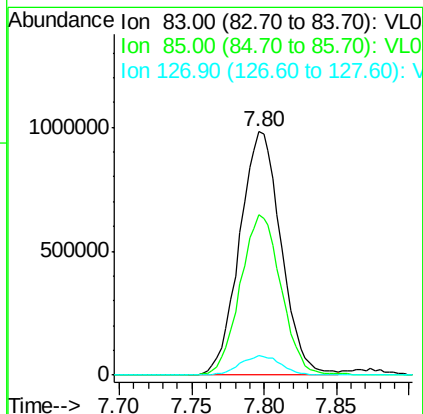
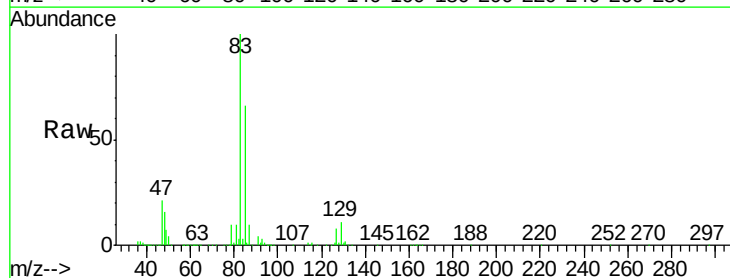
RT: 7.80 min Scan# 1558

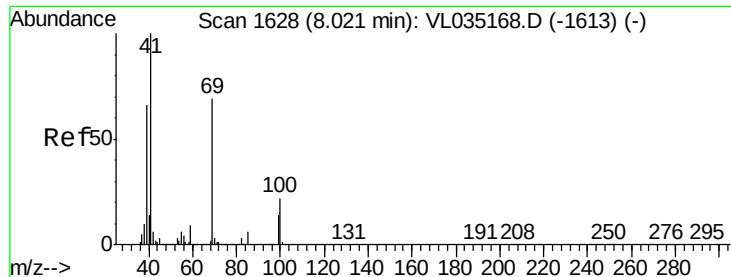
Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		1949865		
85	66.1	52.2	78.4		
127	8.0	6.3	9.5		





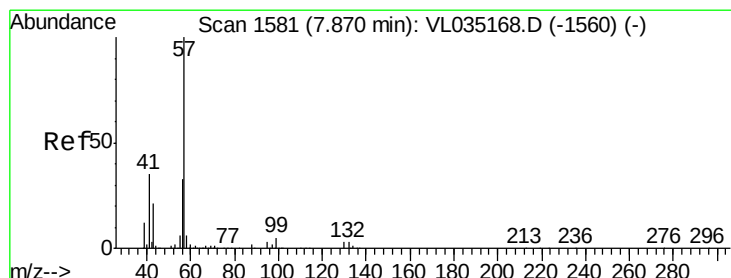
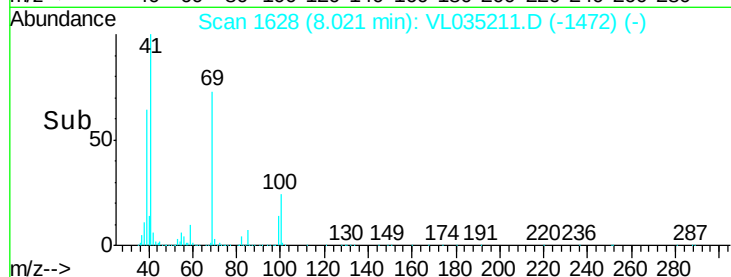
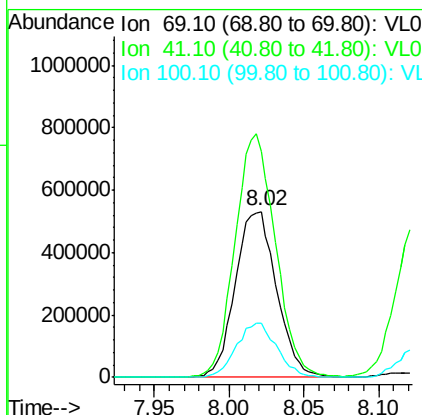
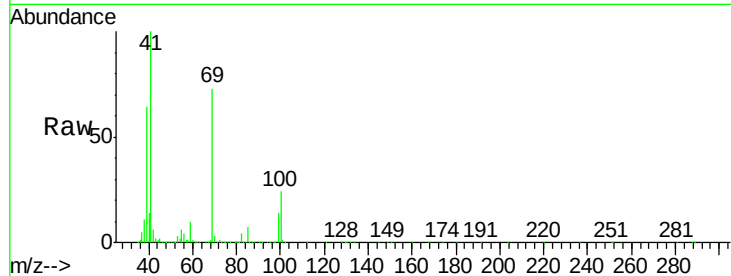
#43
Methyl Methacrylate
Concen: 11.270 ppbv
RT: 8.02 min Scan# 1628
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion: 69 Resp: 1020116
Ion Ratio Lower Upper
69 100
41 143.6 116.3 174.5
100 32.0 25.6 38.4

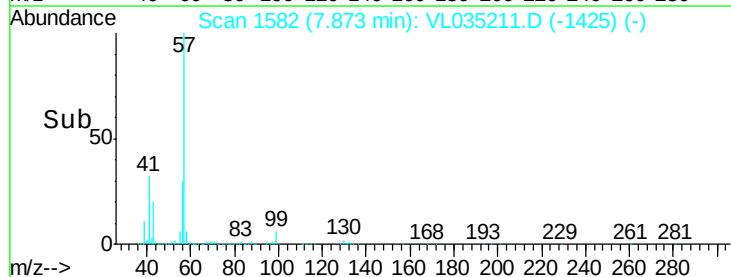
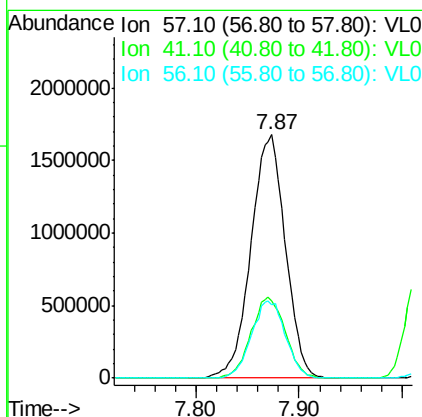
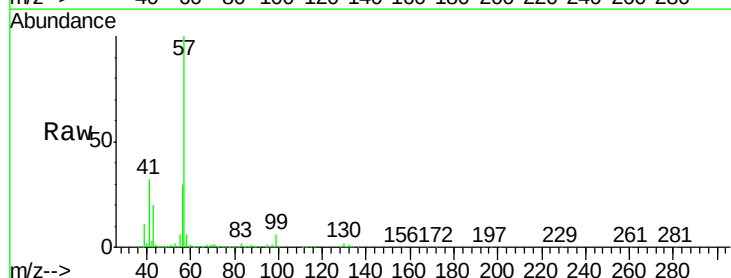
Manual Integrations
APPROVED

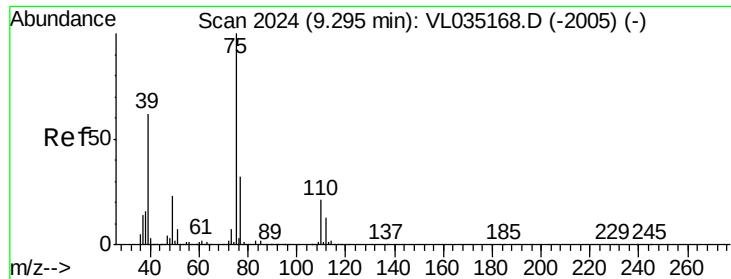
MMDadoda
7/23/2020 3:00:14 PM



#44
2,2,4-Trimethylpentane
Concen: 10.486 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 57 Resp: 3875398
Ion Ratio Lower Upper
57 100
41 33.2 27.0 40.6
56 31.5 25.5 38.3





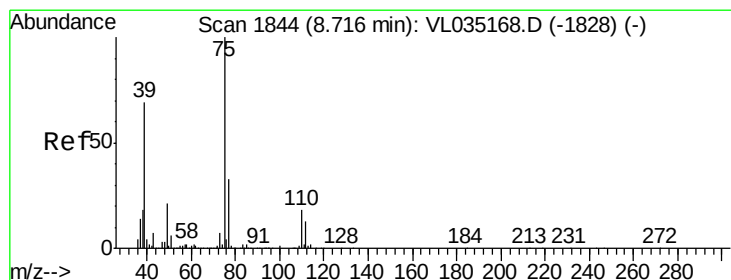
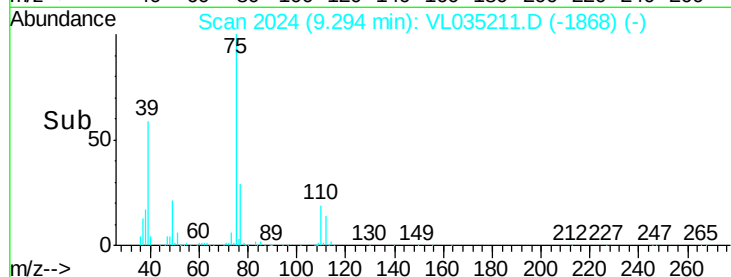
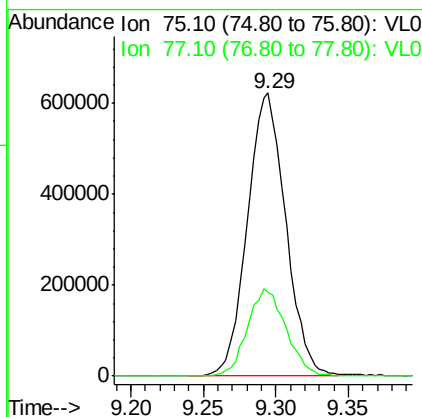
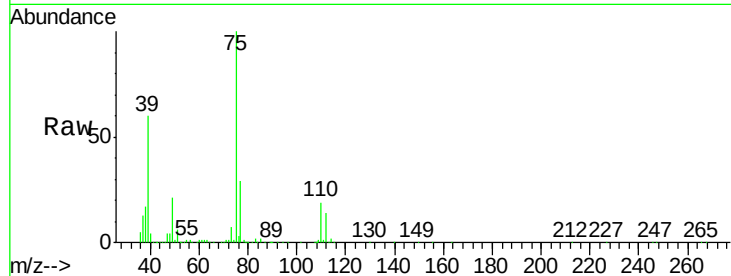
#45
t-1,3-Dichloropropene
Concen: 12.062 ppbv
RT: 9.29 min Scan# 2024
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion: 75 Resp: 1147022
Ion Ratio Lower Upper
75 100
77 29.4 25.8 38.8

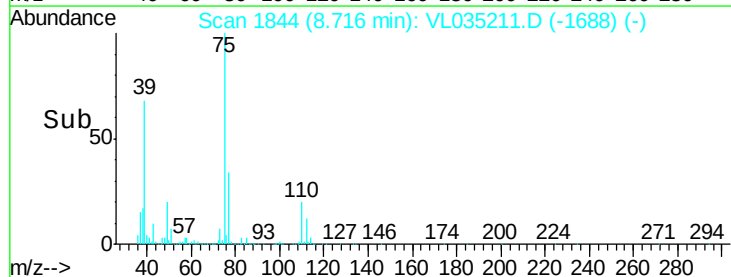
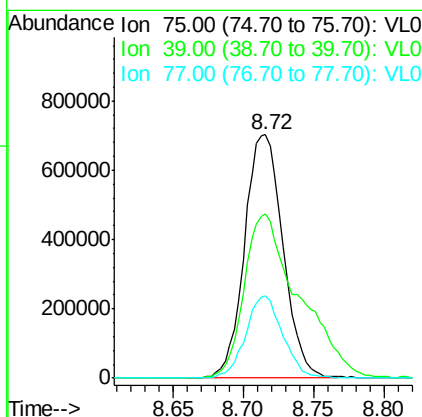
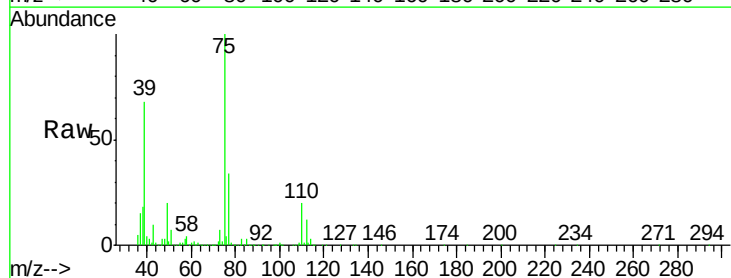
Manual Integrations
APPROVED

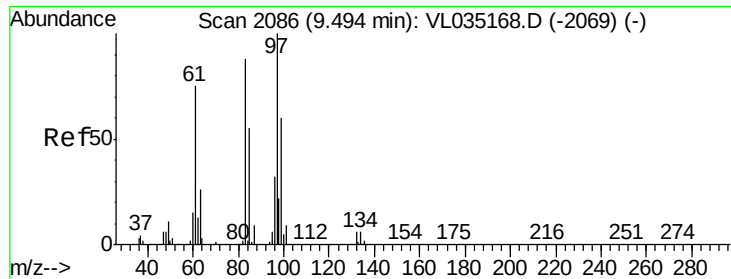
MMDadoda
7/23/2020 3:00:14 PM



#46
cis-1,3-Dichloropropene
Concen: 11.896 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 75 Resp: 1341036
Ion Ratio Lower Upper
75 100
39 67.5 55.2 82.8
77 33.7 26.0 39.0





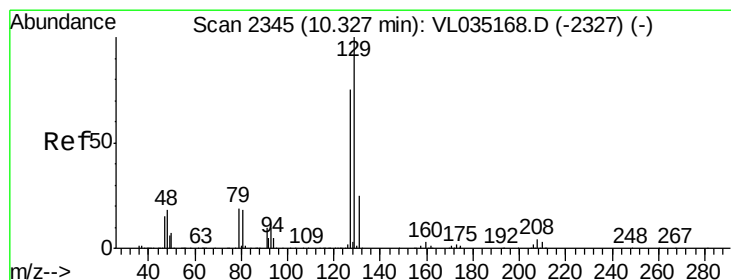
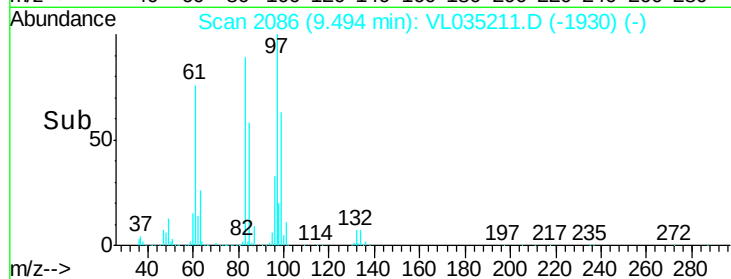
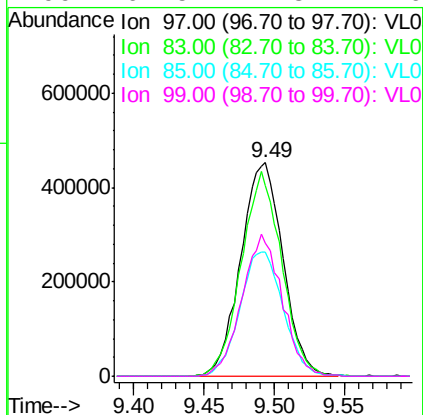
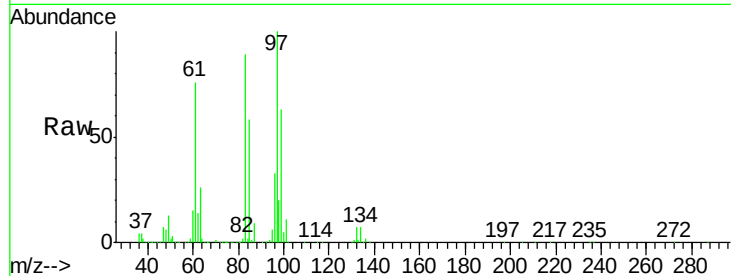
#47
 1,1,2-Trichloroethane
 Concen: 10.147 ppbv
 RT: 9.49 min Scan# 2086
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	97	Resp	945745
Ion Ratio	Lower	Upper	
97	100		
83	89.3	70.3	105.5
85	58.2	44.3	66.5
99	62.5	47.8	71.6

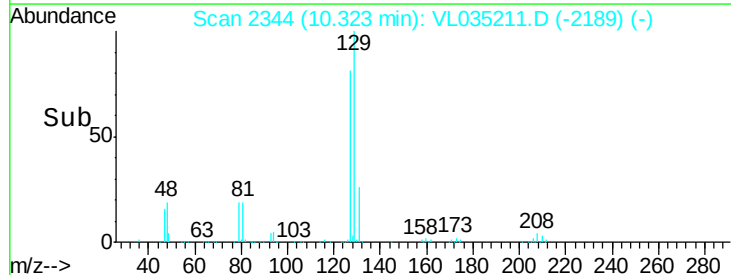
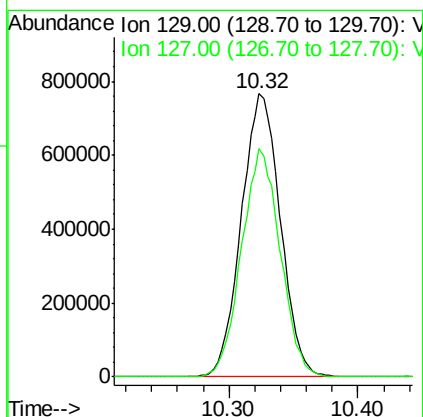
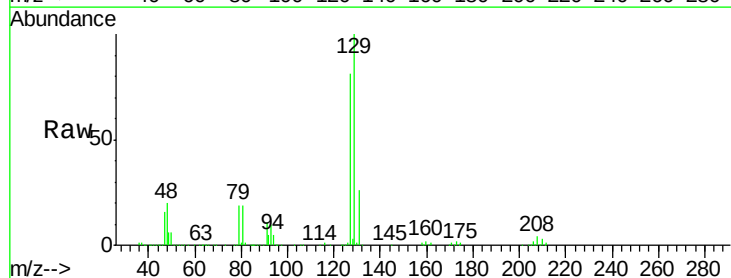
Manual Integrations
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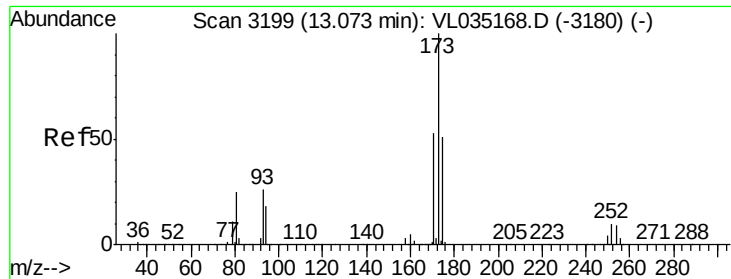
MMDadoda
 7/23/2020 3:00:14 PM



#48
 Dibromochloromethane
 Concen: 10.665 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion	129	Resp	1617361
Ion Ratio	Lower	Upper	
129	100		
127	79.9	38.8	116.3





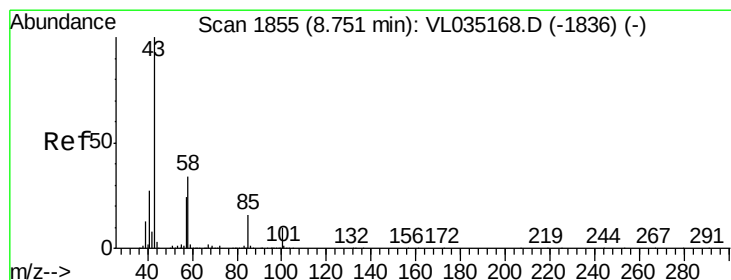
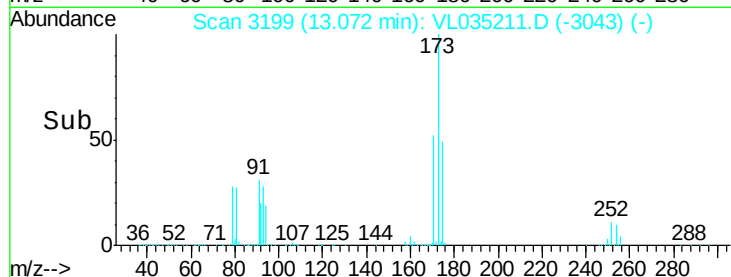
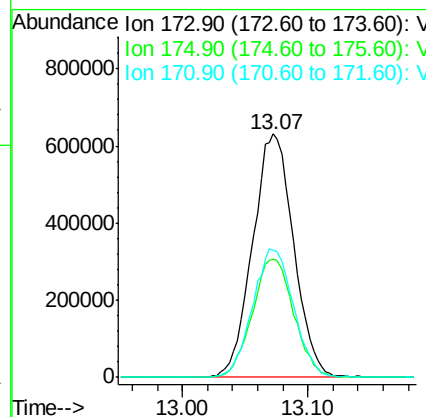
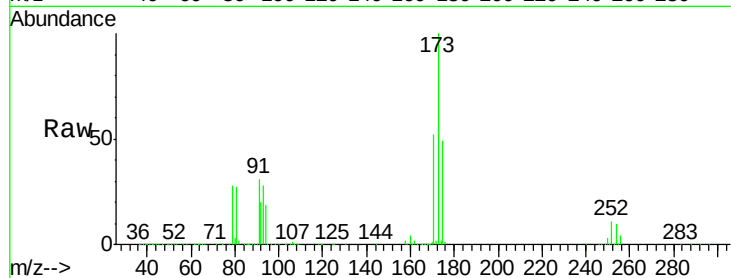
#49
Bromoform
Concen: 10.798 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion:173 Resp: 1432398
Ion Ratio Lower Upper
173 100
175 49.4 39.7 59.5
171 52.8 41.6 62.4

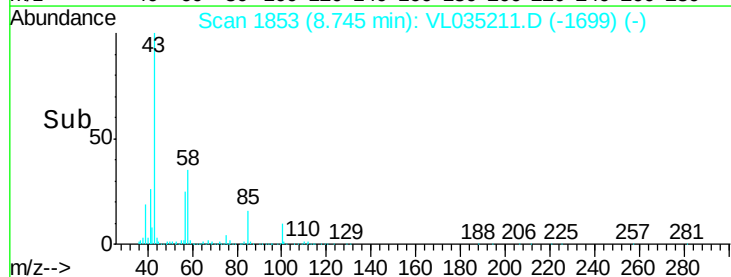
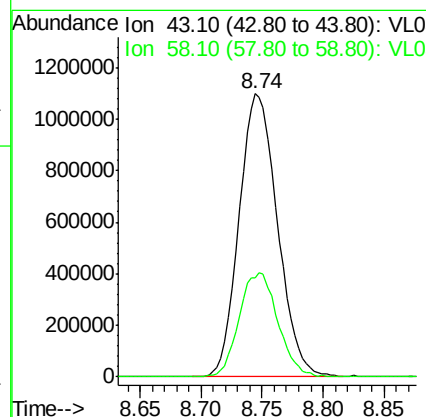
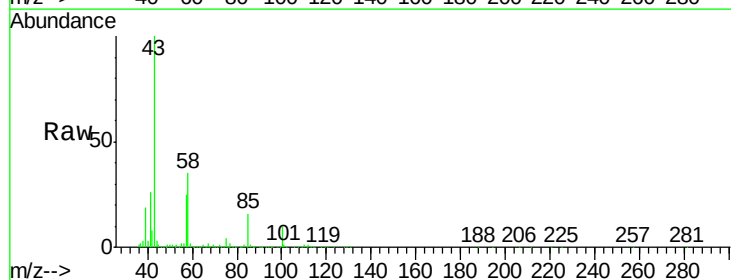
Manual Integrations
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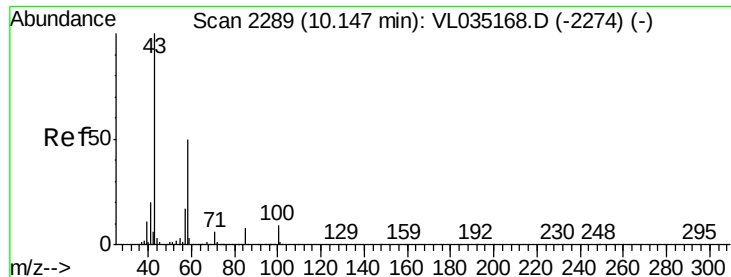
MMDadoda
7/23/2020 3:00:14 PM



#50
4-Methyl-2-Pentanone
Concen: 10.555 ppbv
RT: 8.74 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 43 Resp: 2391945
Ion Ratio Lower Upper
43 100
58 36.9 29.4 44.2





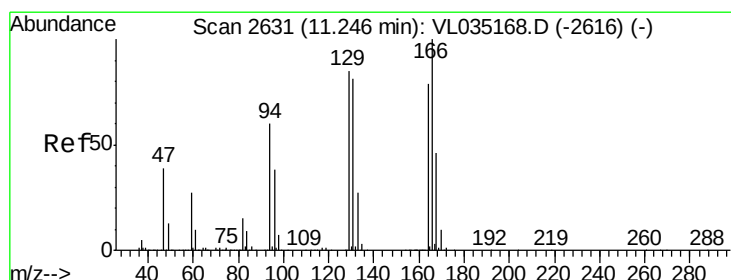
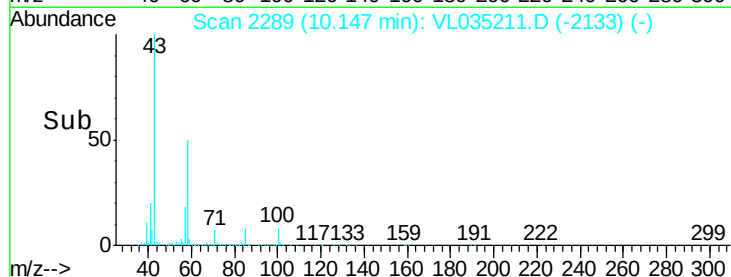
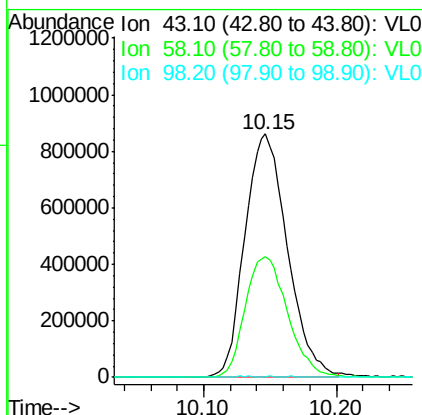
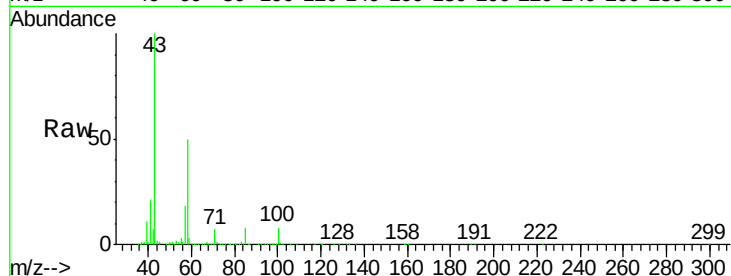
#51
2-Hexanone
Concen: 11.137 ppbv
RT: 10.15 min Scan# 2289
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion: 43 Resp: 1924442
Ion Ratio Lower Upper
43 100
58 49.7 39.4 59.0
98 0.7 0.3 0.5#

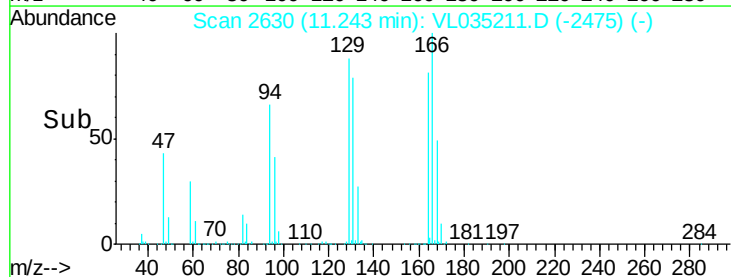
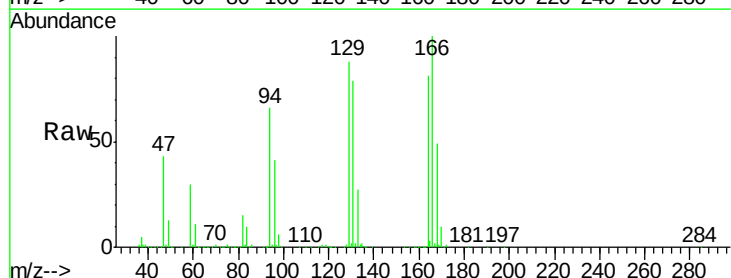
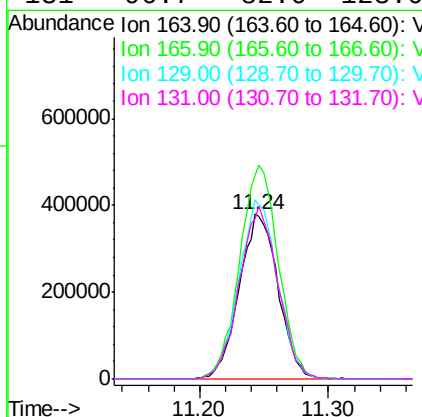
Manual Integrations
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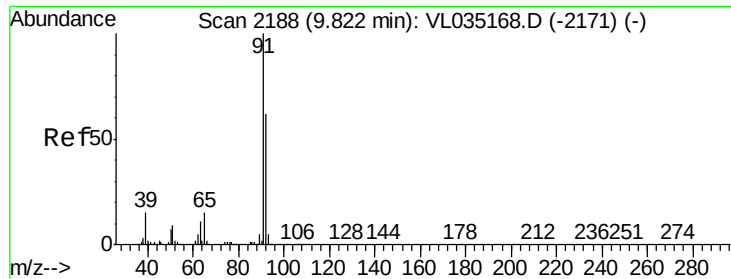
MMDadoda
7/23/2020 3:00:14 PM



#52
Tetrachloroethene
Concen: 9.952 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 164 Resp: 795925
Ion Ratio Lower Upper
164 100
166 122.9 100.7 151.1
129 108.2 85.8 128.6
131 96.7 82.0 123.0





#53

Toluene

Concen: 11.563 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion: 91 Resp: 2612962

Ion Ratio Lower Upper

91 100

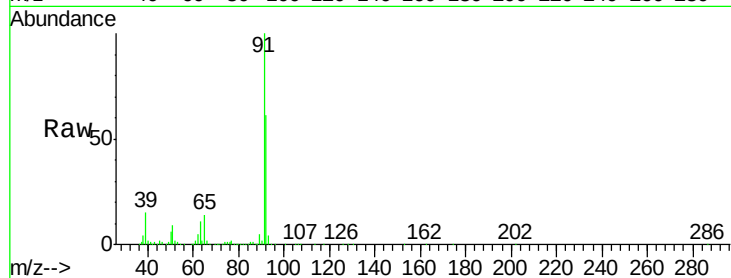
92 60.7 48.4 72.6

Manual Integrations

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MMDadoda

7/23/2020 3:00:14 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

1500000

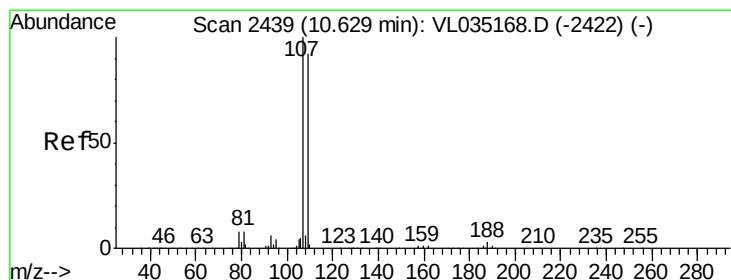
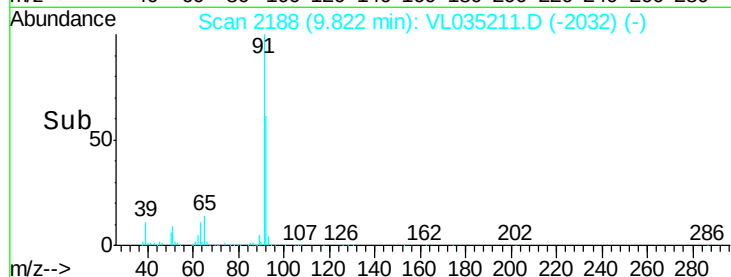
9.82

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 10.528 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.00 min

Lab File: VL035211.D

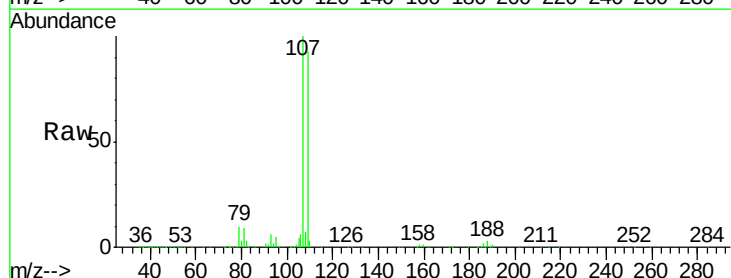
Acq: 21 Jul 2020 12:23

Tgt Ion: 107 Resp: 1456206

Ion Ratio Lower Upper

107 100

109 93.4 74.0 111.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

800000

10.63

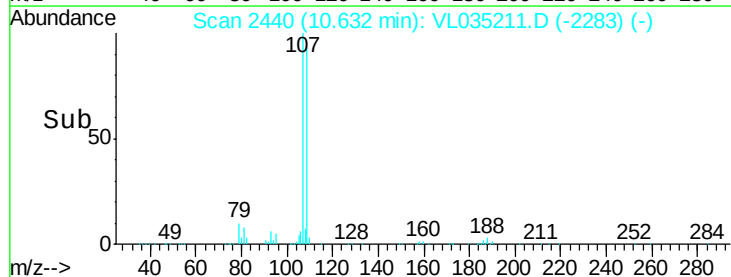
600000

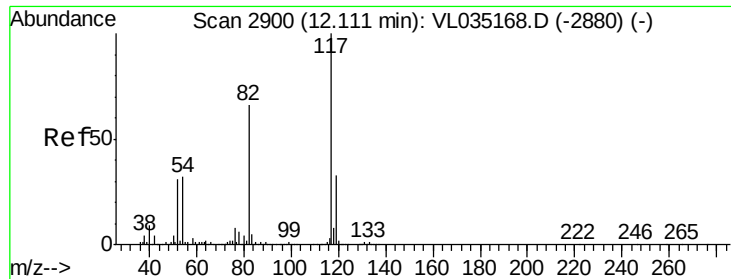
400000

200000

0

Time-->





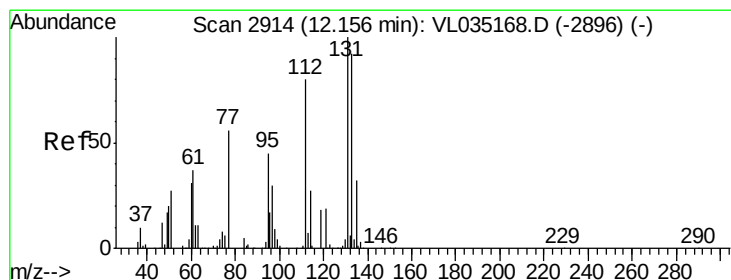
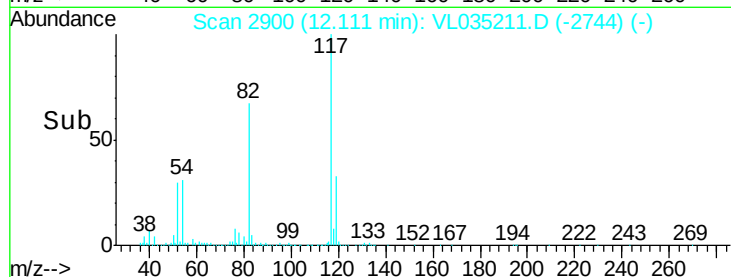
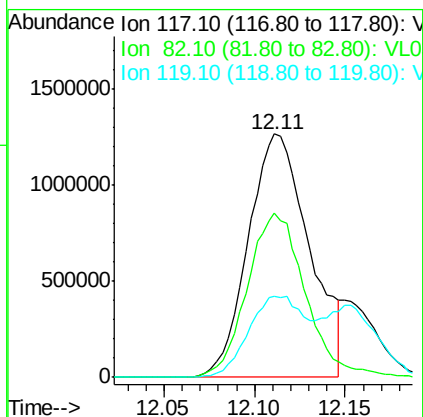
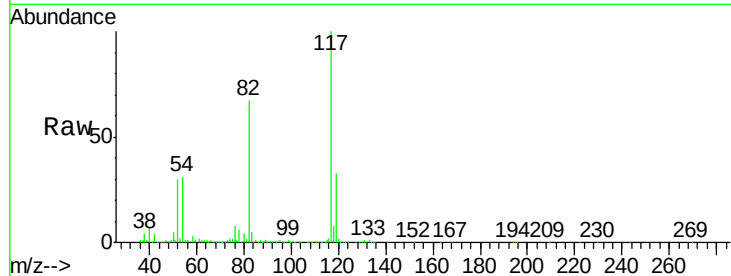
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.11 min Scan# 2900
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion:117 Resp: 2977089
Ion Ratio Lower Upper
117 100
82 64.2 52.3 78.5
119 33.6 24.9 37.3

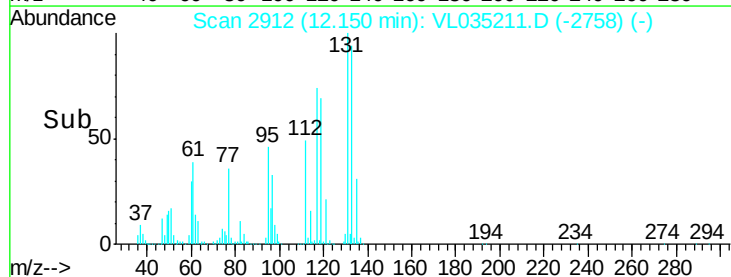
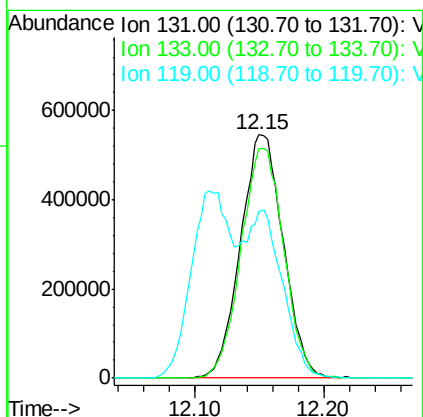
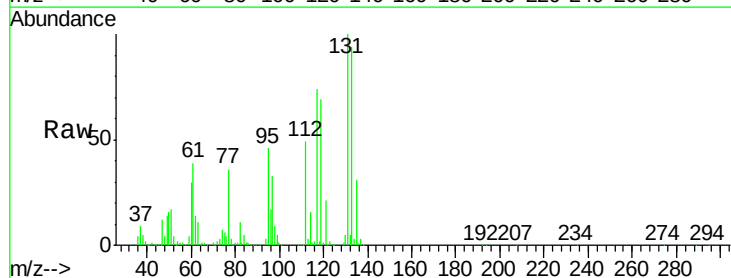
Manual Integrations
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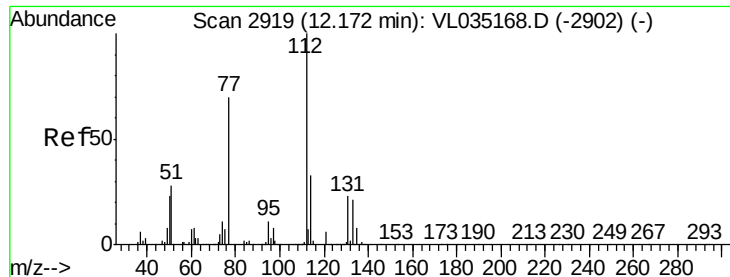
MMDadoda
7/23/2020 3:00:14 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 9.549 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion:131 Resp: 1259458
Ion Ratio Lower Upper
131 100
133 94.9 75.4 113.2
119 55.8 42.4 63.6





#57

Chlorobenzene

Concen: 9.397 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion:112 Resp: 2061792

Ion Ratio Lower Upper

112 100

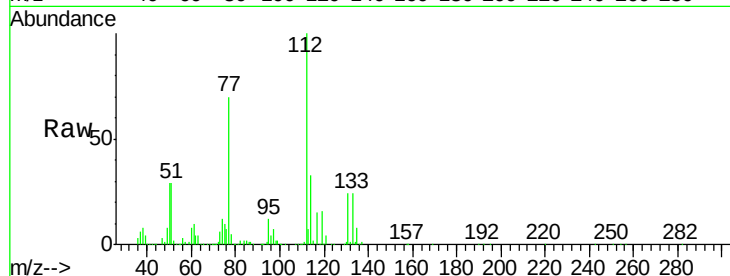
77 70.2 57.0 85.4

114 32.5 30.2 37.0

Manual Integrations
APPROVED

MMDadoda

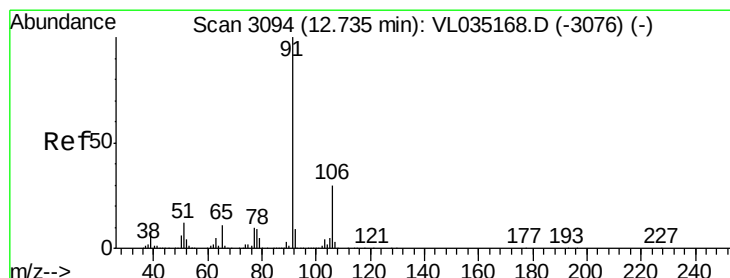
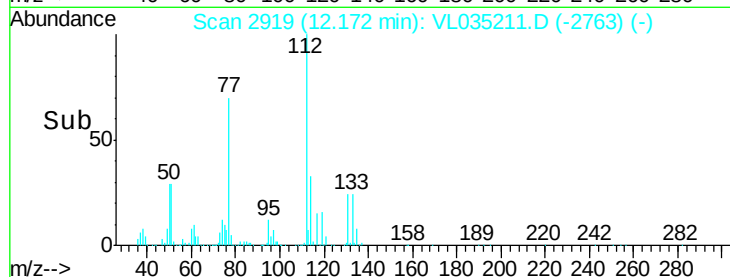
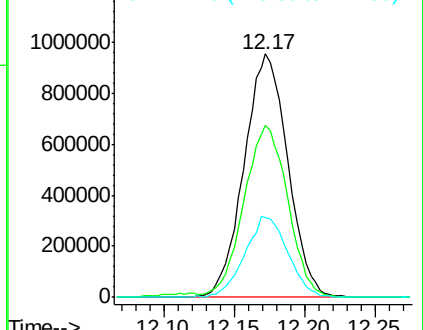
7/23/2020 3:00:14 PM



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: 10.834 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. 0.00 min

Lab File: VL035211.D

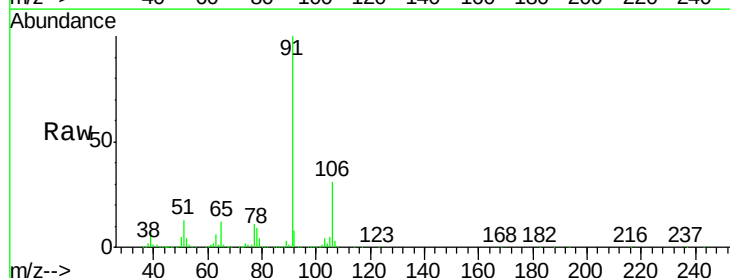
Acq: 21 Jul 2020 12:23

Tgt Ion: 91 Resp: 3565130

Ion Ratio Lower Upper

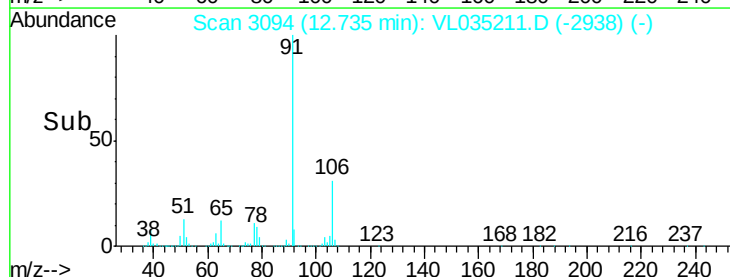
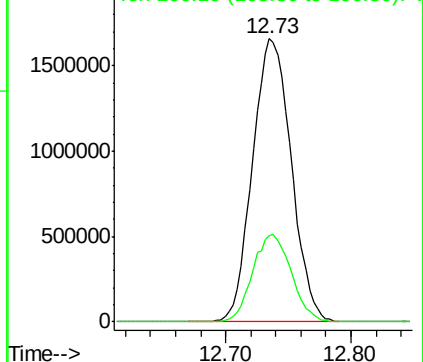
91 100

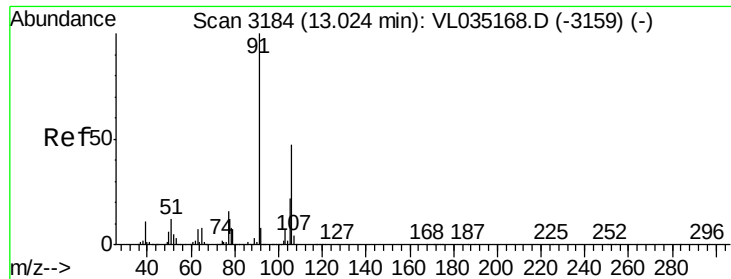
106 30.6 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





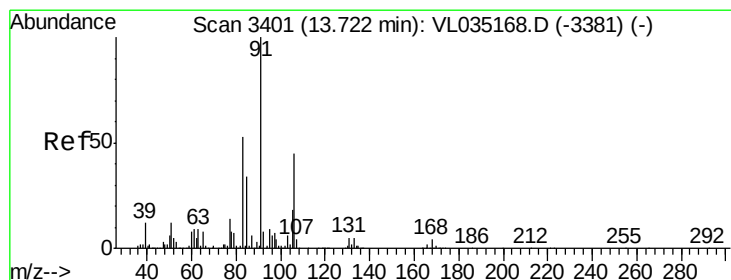
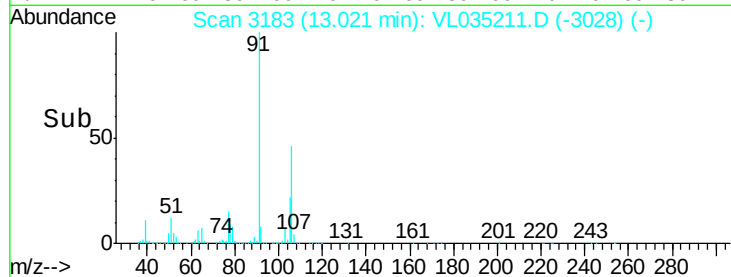
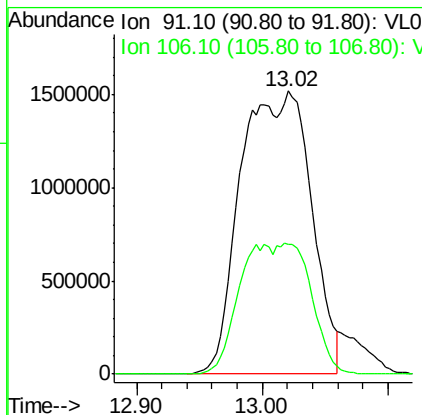
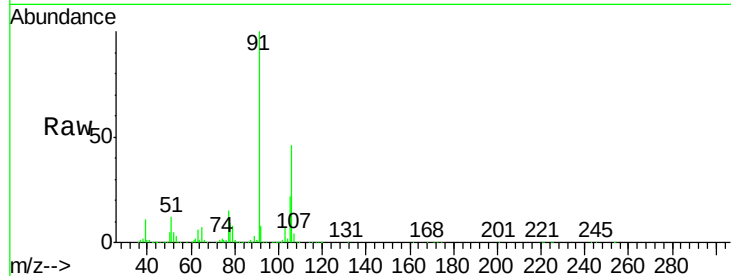
#59
m/p-Xylene
Concen: 20.181 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion: 91 Resp: 5918469
Ion Ratio Lower Upper
91 100
106 46.4 36.2 54.2

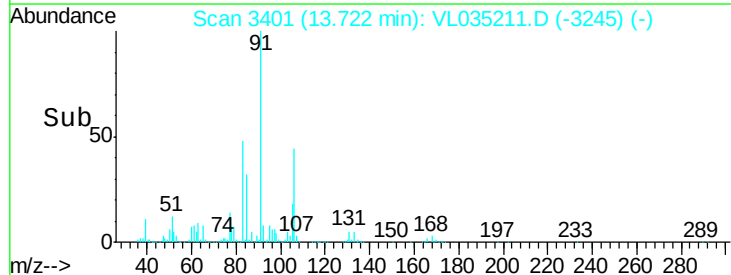
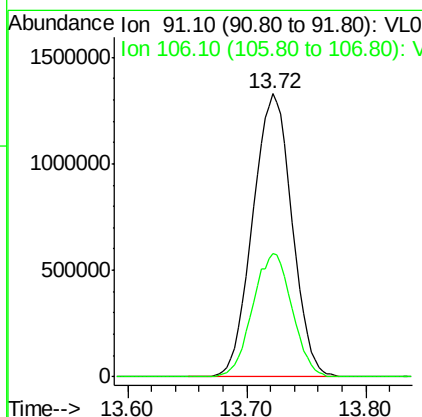
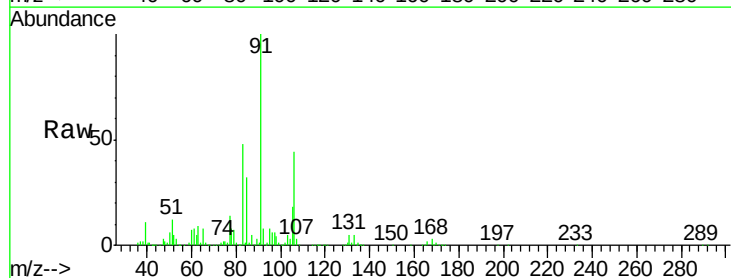
Manual Integrations
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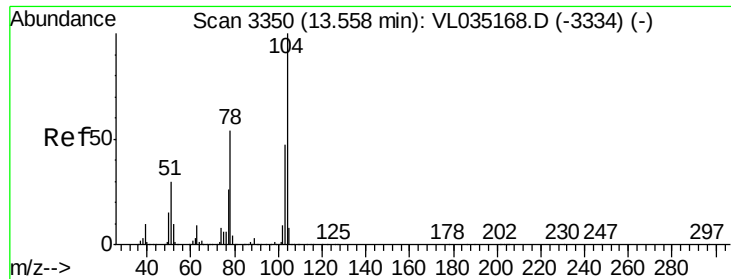
MMDadoda
7/23/2020 3:00:14 PM



#60
o-Xylene
Concen: 10.328 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 91 Resp: 3021861
Ion Ratio Lower Upper
91 100
106 43.8 22.1 66.3





#61

Stvrene

Concen: 11.579 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion:104 Resp: 2093627

Ion Ratio Lower Upper

104 100

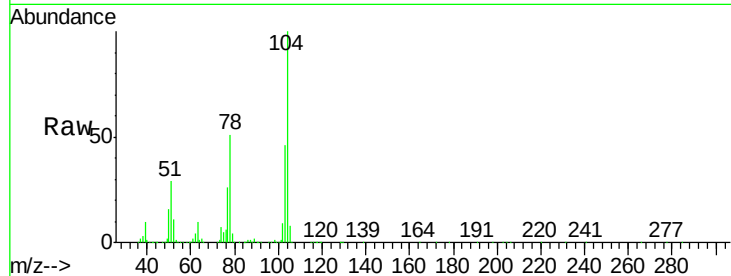
78 54.0 43.4 65.0

103 47.1 37.4 56.0

Manual Integrations
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MMDadoda

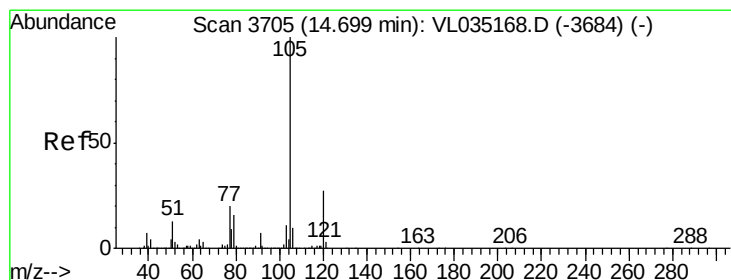
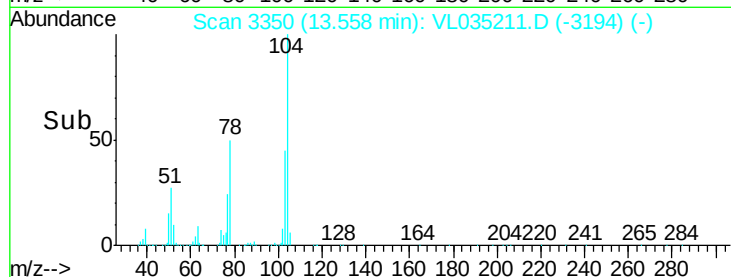
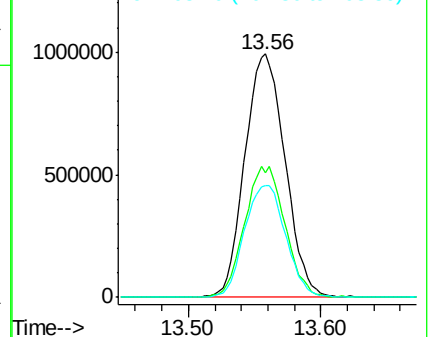
7/23/2020 3:00:14 PM



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: 10.185 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035211.D

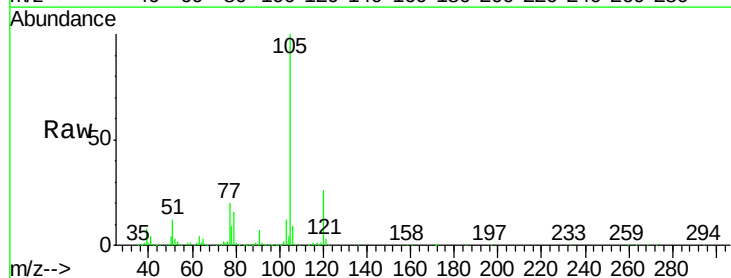
Acq: 21 Jul 2020 12:23

Tgt Ion:105 Resp: 4417391

Ion Ratio Lower Upper

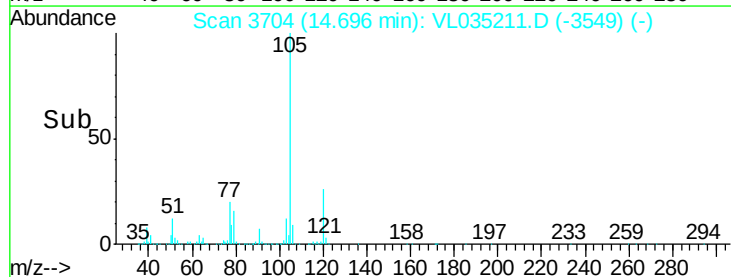
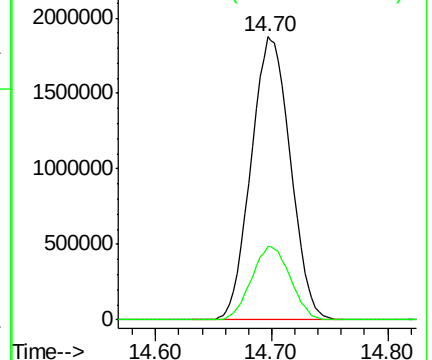
105 100

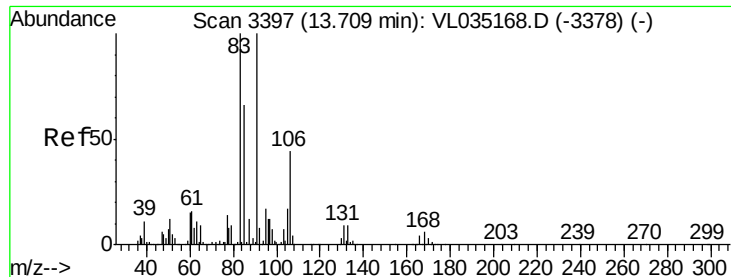
120 25.8 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





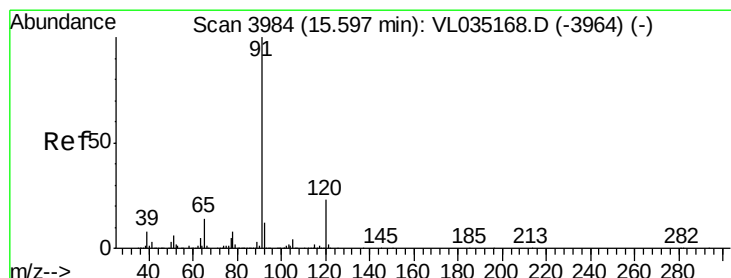
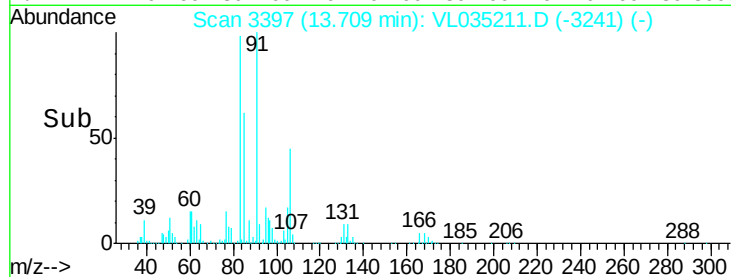
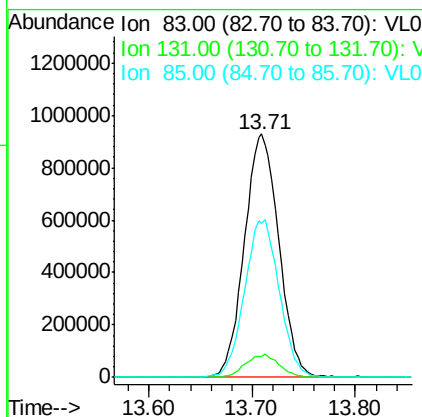
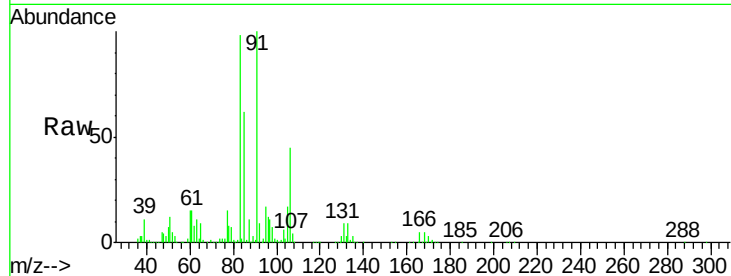
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.800 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.7	14.0
85	65.4	33.0	99.0

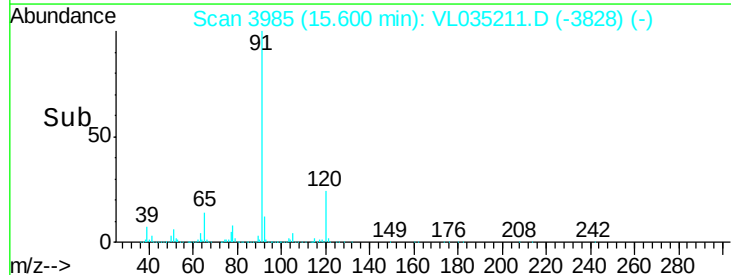
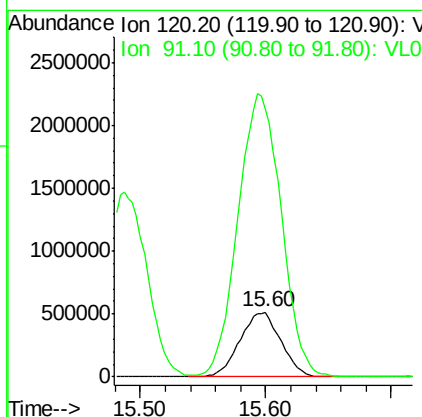
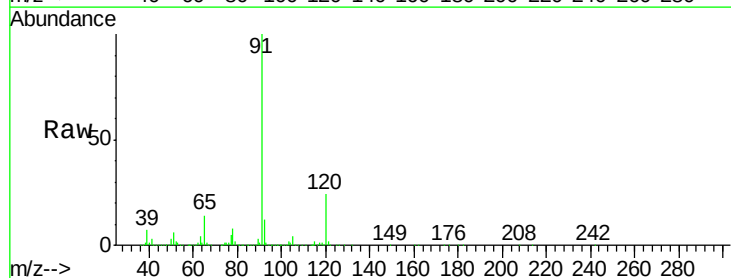
Manual Integrations
 APPROVED

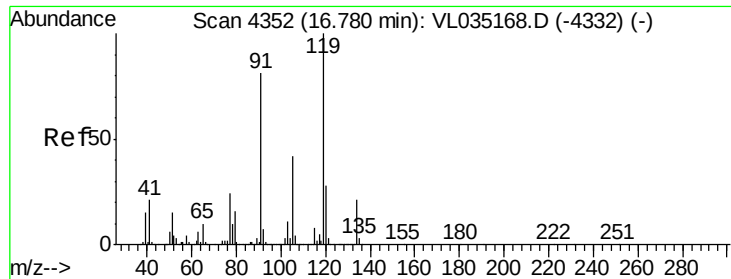
MMDadoda
 7/23/2020 3:00:14 PM



#64
 n-propylbenzene
 Concen: 10.439 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion	Ratio	Lower	Upper
120	100		
91	462.4	372.4	558.6





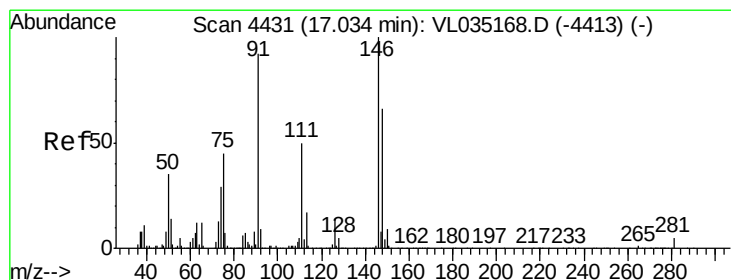
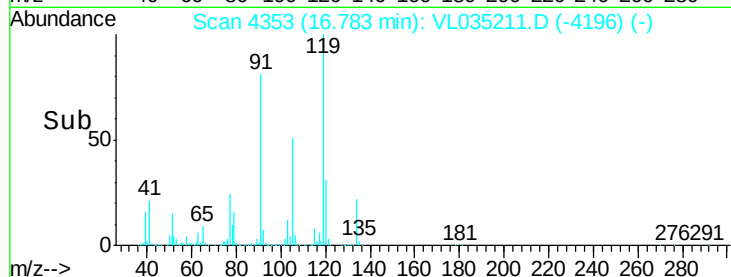
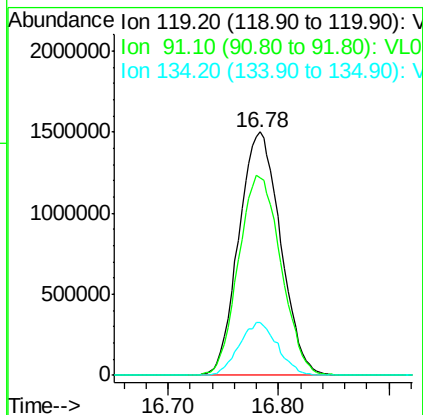
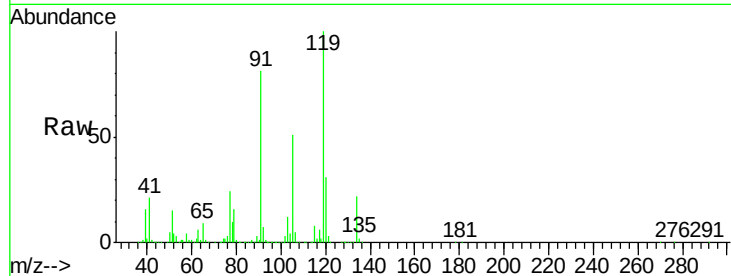
#65
tert-Butylbenzene
Concen: 10.089 ppbv
RT: 16.78 min Scan# 4353
Delta R.T. 0.00 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Instrument :
MSVOA_L
ClientSampleId :
VL0721ABS01

Tot Ion:119 Resp: 3929880
Ion Ratio Lower Upper
119 100
91 83.7 67.5 101.3
134 20.1 16.0 24.0

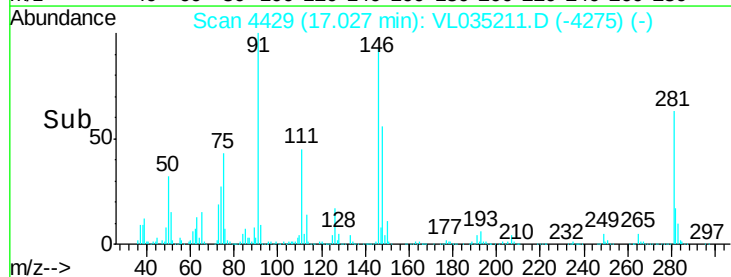
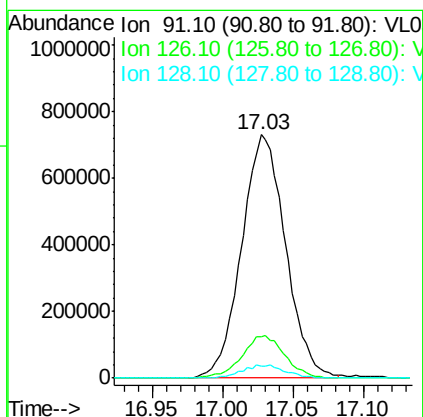
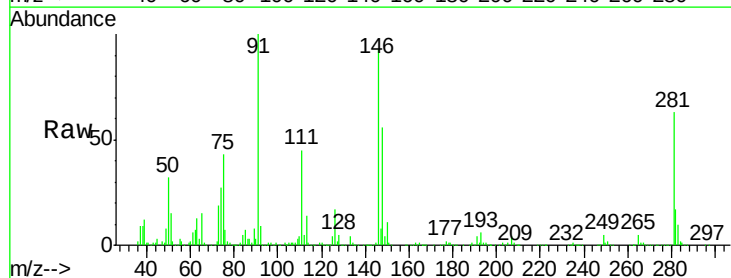
Manual Integrations
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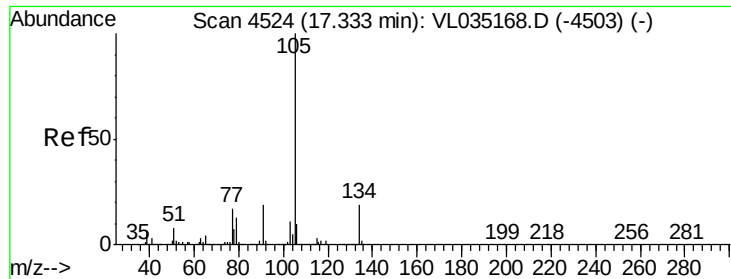
MMDadoda
7/23/2020 3:00:14 PM



#66
Benzyl Chloride
Concen: 11.362 ppbv
RT: 17.03 min Scan# 4429
Delta R.T. -0.01 min
Lab File: VL035211.D
Acq: 21 Jul 2020 12:23

Tgt Ion: 91 Resp: 1576758
Ion Ratio Lower Upper
91 100
126 17.3 13.9 20.9
128 5.3 4.2 6.4





#67

sec-Butylbenzene

Concen: 9.846 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleID :

VL0721ABS01

Tot Ion: 105 Resp: 5591310

Ion Ratio Lower Upper

105 100

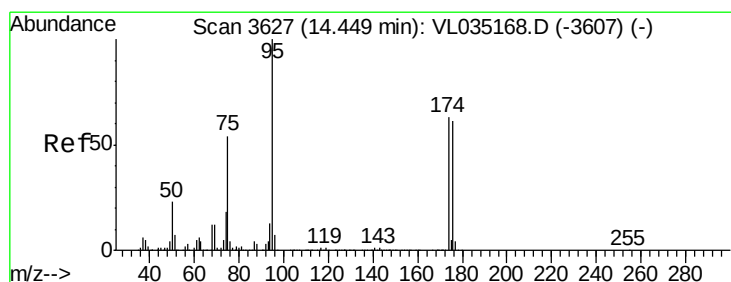
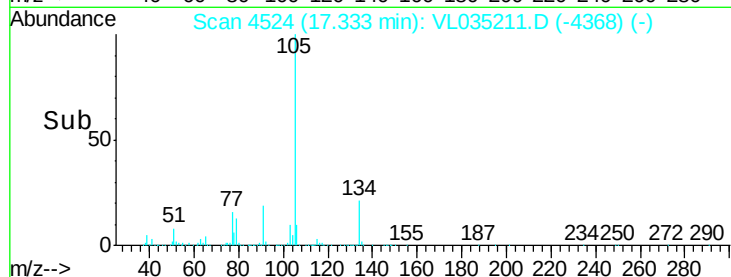
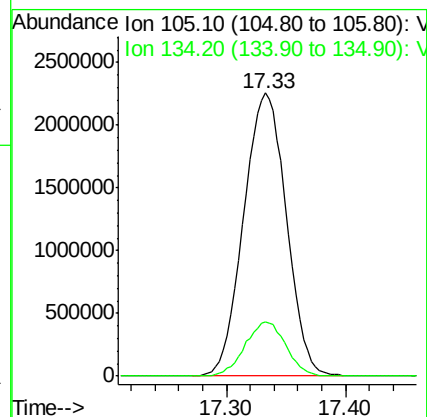
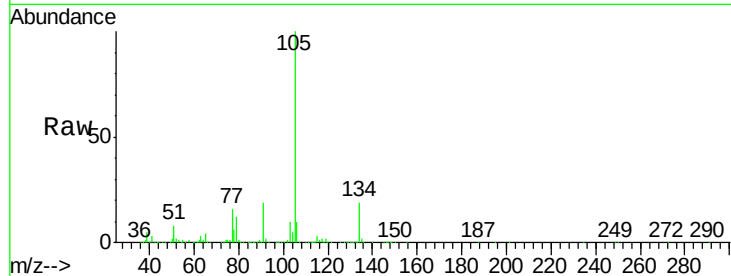
134 18.4 14.6 21.8

Manual Integrations

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7/23/2020 3:00:14 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.535 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

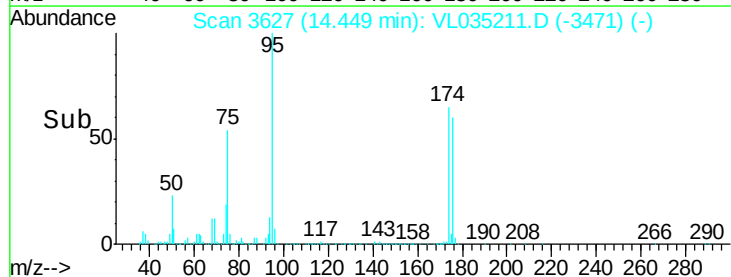
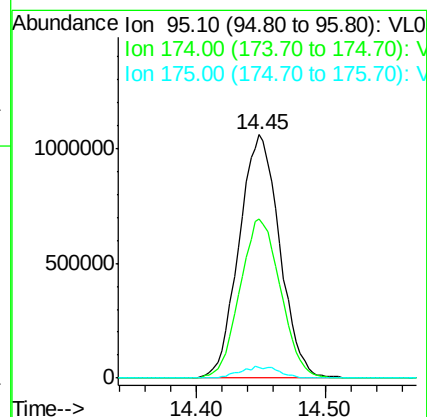
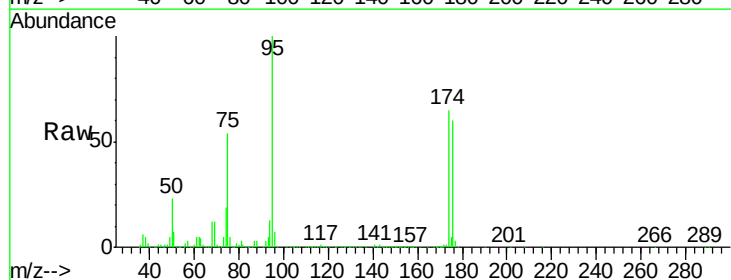
Tgt Ion: 95 Resp: 2305983

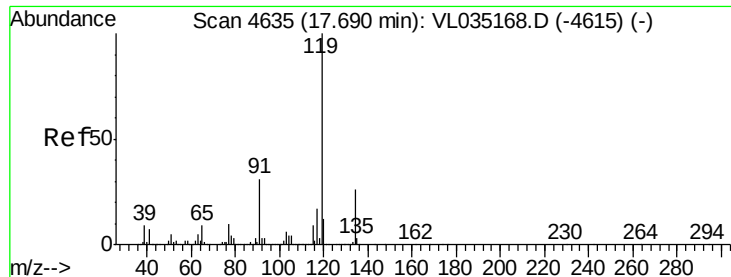
Ion Ratio Lower Upper

95 100

174 66.0 52.2 78.2

175 4.7 4.0 6.0





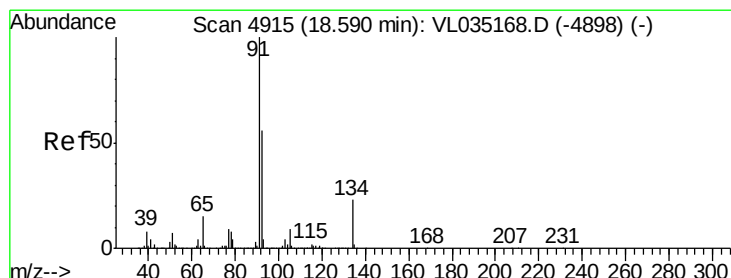
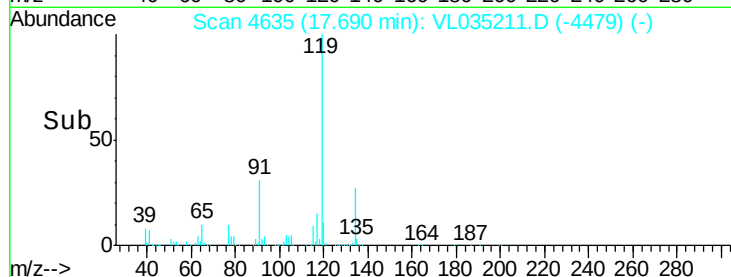
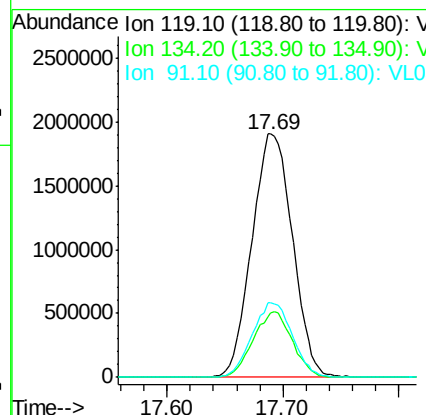
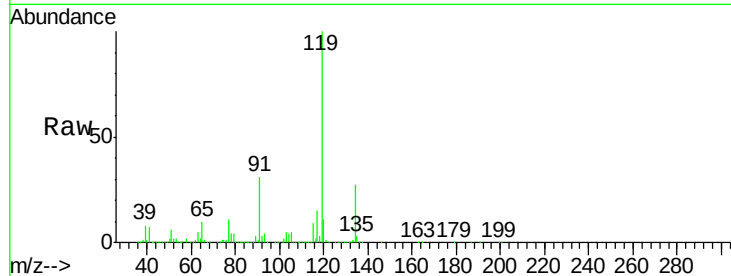
#69
 p-Isopropyltoluene
 Concen: 10.422 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.8	31.2
91	30.5	24.9	37.3

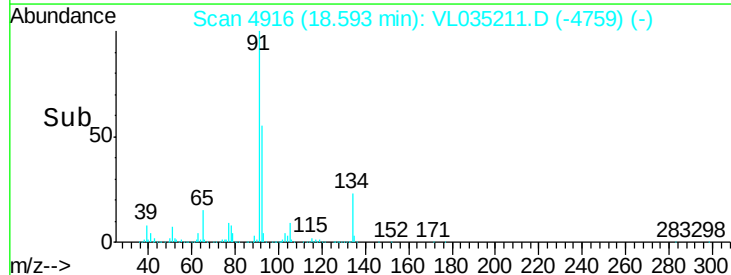
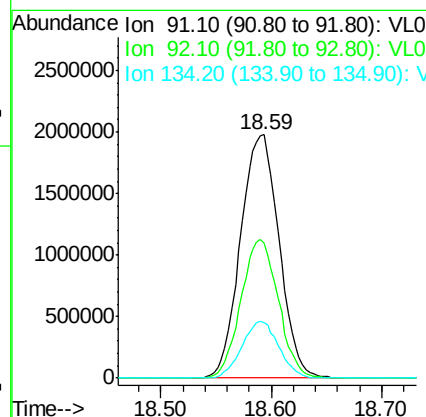
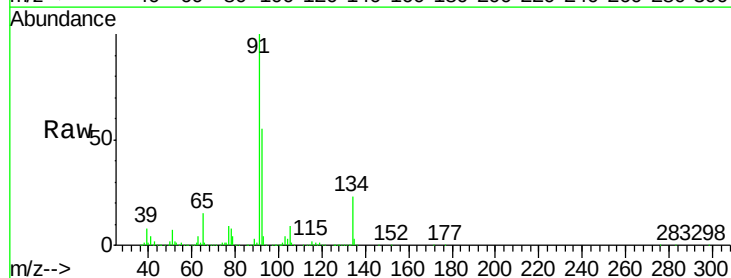
Manual Integrations
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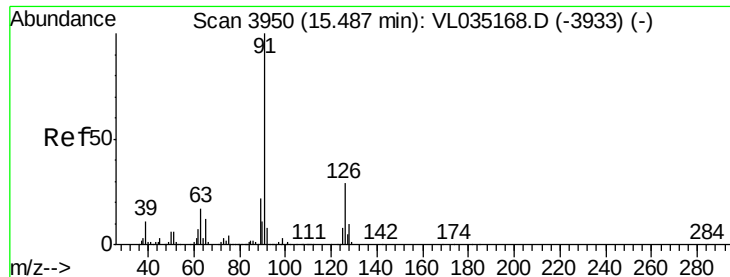
MMDadoda
 7/23/2020 3:00:14 PM



#70
 n-Butylbenzene
 Concen: 10.140 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. 0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.0	66.0
134	22.5	18.0	27.0





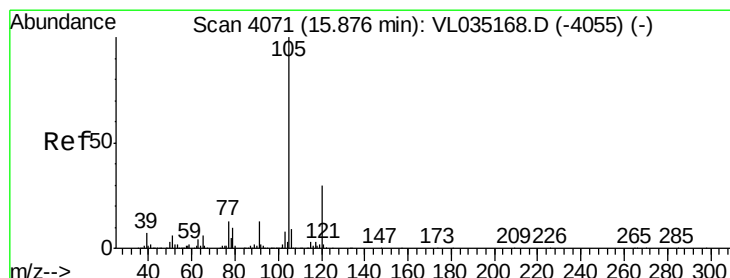
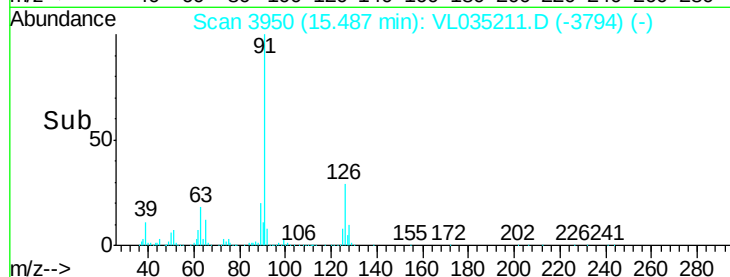
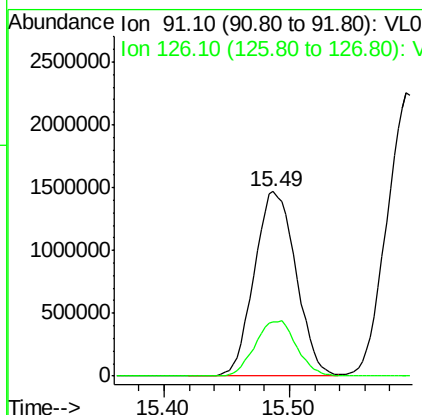
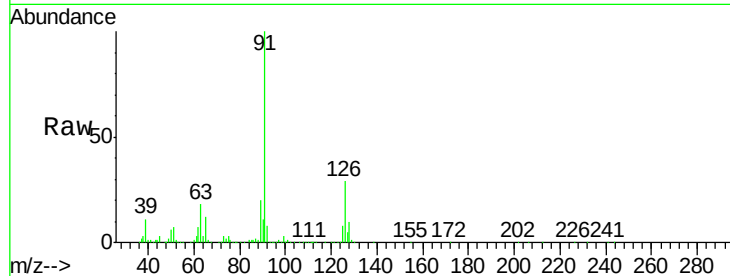
#71
 2-Chlorotoluene
 Concen: 10.367 ppbv
 RT: 15.49 min Scan# 3950
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion: 91 Resp: 3402235
 Ion Ratio Lower Upper
 91 100
 126 29.9 12.0 48.0

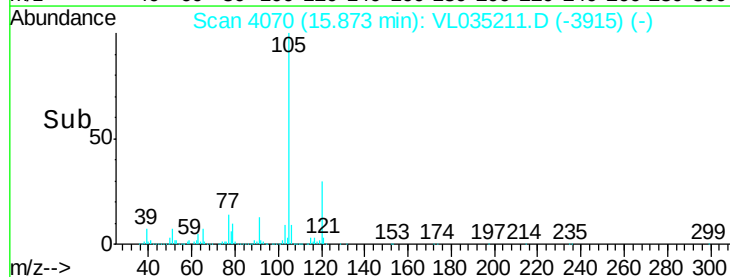
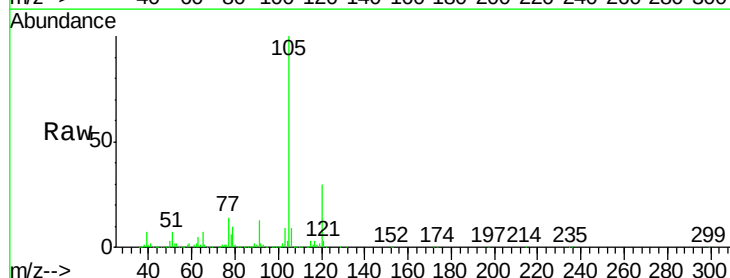
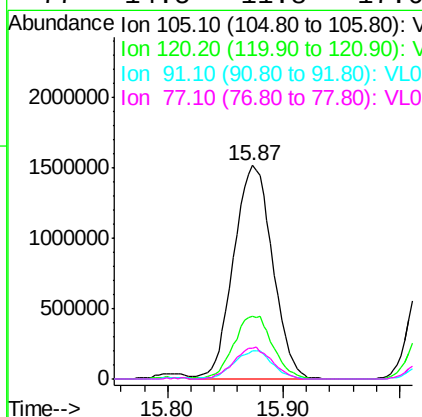
Manual Integrations
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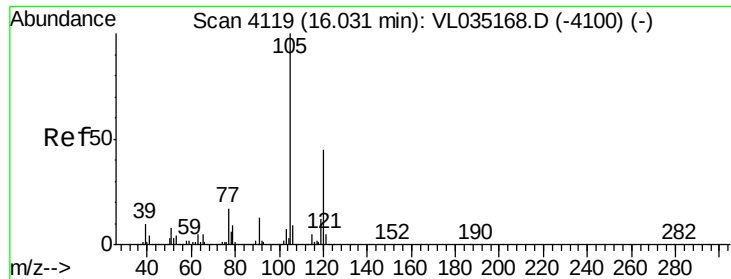
MMDadoda
 7/23/2020 3:00:14 PM



#72
 4-Ethyltoluene
 Concen: 10.699 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion: 105 Resp: 3527301
 Ion Ratio Lower Upper
 105 100
 120 30.1 23.2 34.8
 91 13.1 10.9 16.3
 77 14.5 11.8 17.6





#73

1,3,5-Trimethylbenzene

Concen: 10.366 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

VL0721ABS01

Tot Ion:105 Resp: 3295594

Ion Ratio Lower Upper

105 100

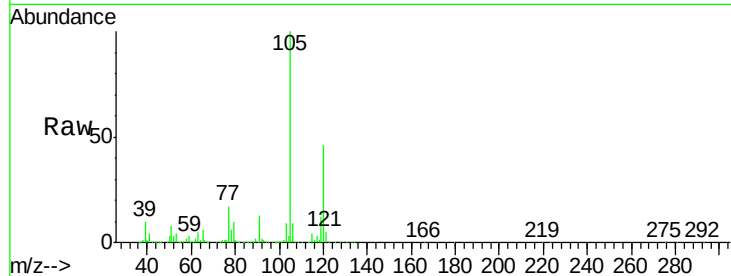
120 45.8 36.2 54.2

Manual Integrations

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MMDadoda

7/23/2020 3:00:14 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.03

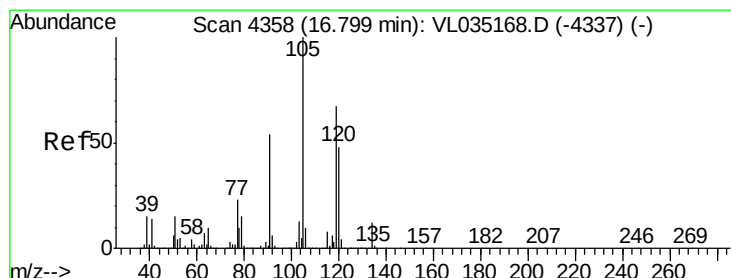
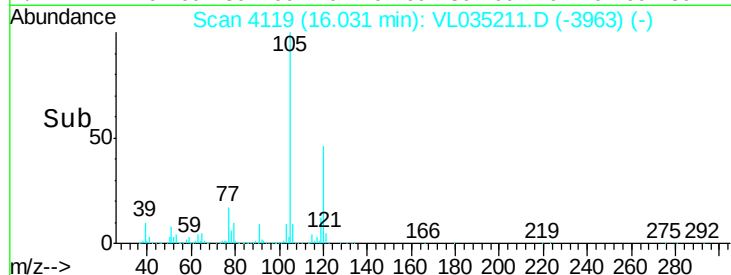
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.820 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion:105 Resp: 3450012

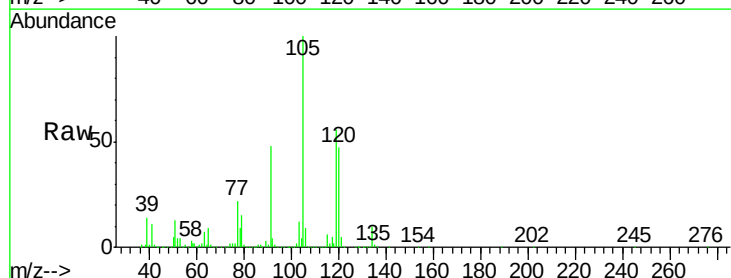
Ion Ratio Lower Upper

105 100

120 47.2 38.6 57.8

91 47.7 43.6 65.4

77 22.4 18.3 27.5



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

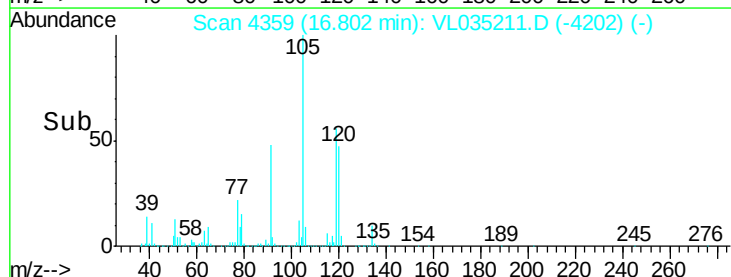
1500000

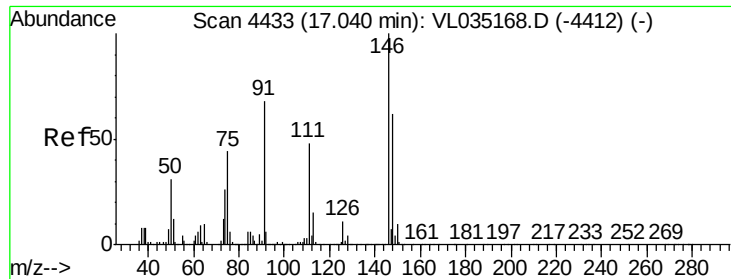
1000000

500000

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Time-->





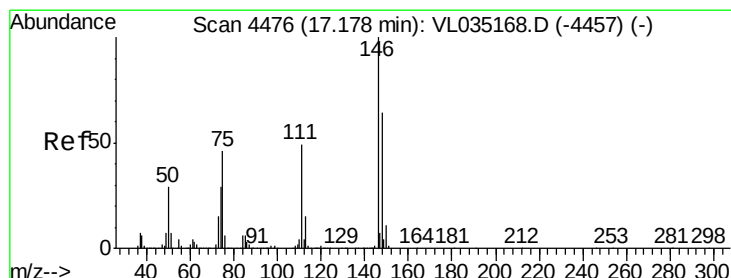
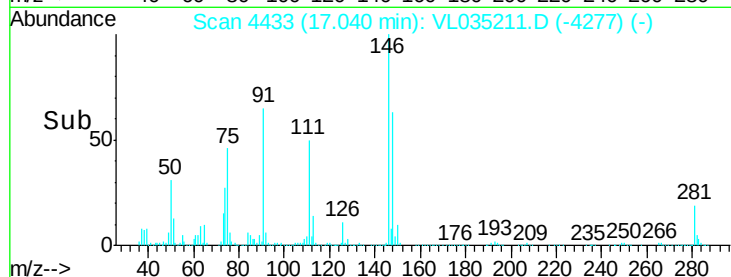
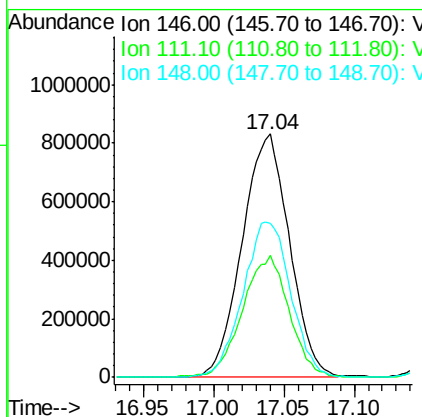
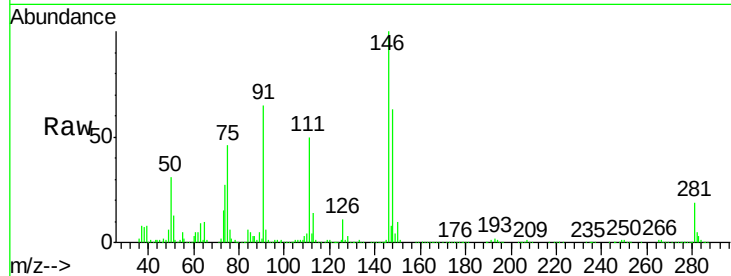
#75
 1,3-Dichlorobenzene
 Concen: 8.705 ppbv
 RT: 17.04 min Scan# 4433
 Delta R.T. 0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.0	24.7	74.1
148	65.2	32.4	97.0

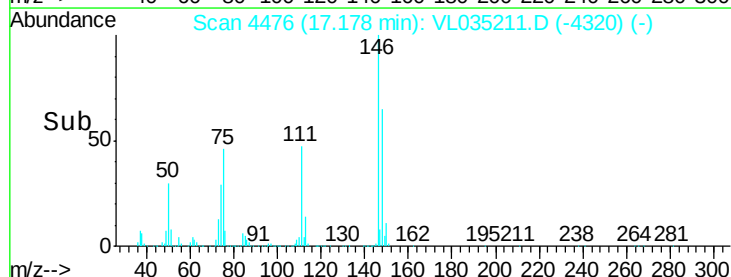
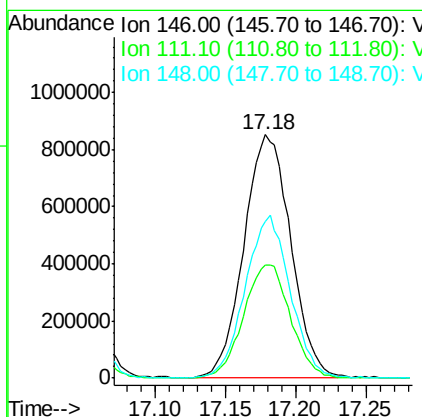
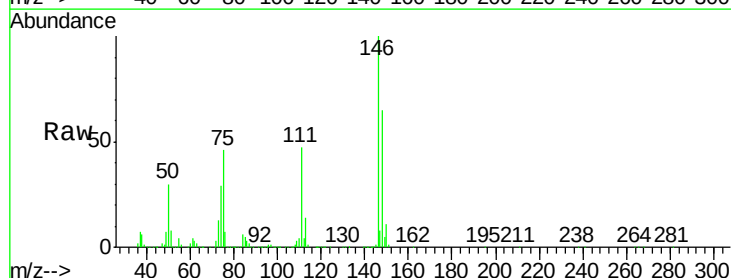
Manual Integrations
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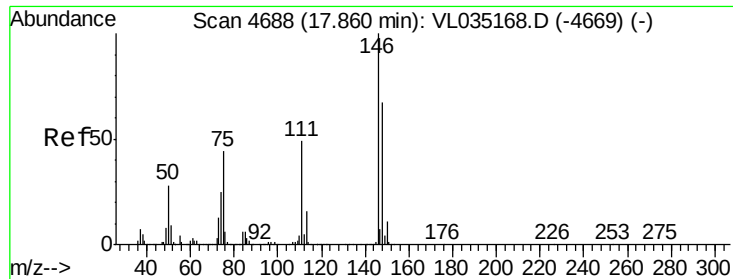
MMDadoda
 7/23/2020 3:00:14 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.515 ppbv
 RT: 17.18 min Scan# 4476
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.8	71.2
148	64.8	32.3	96.9





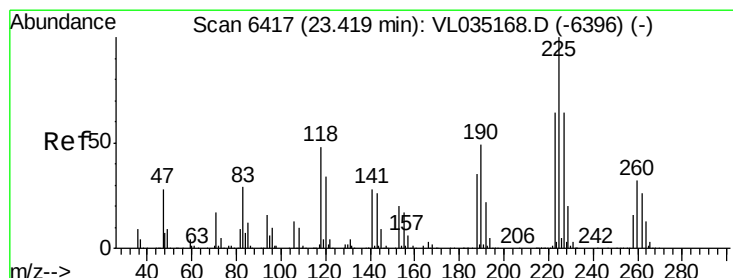
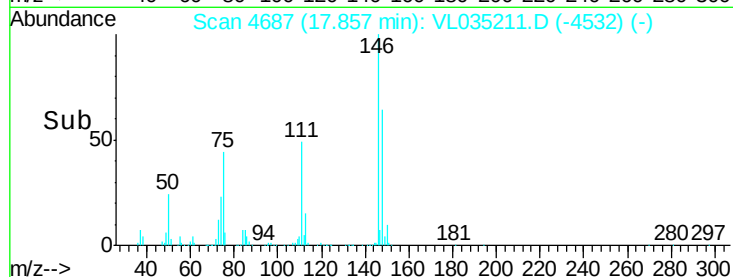
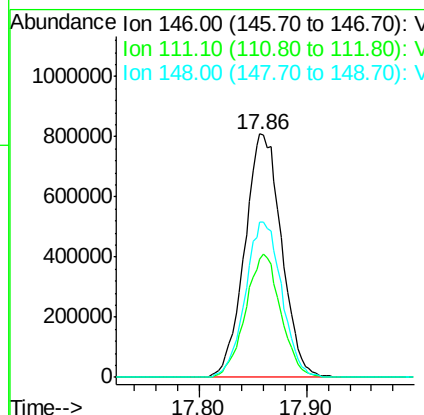
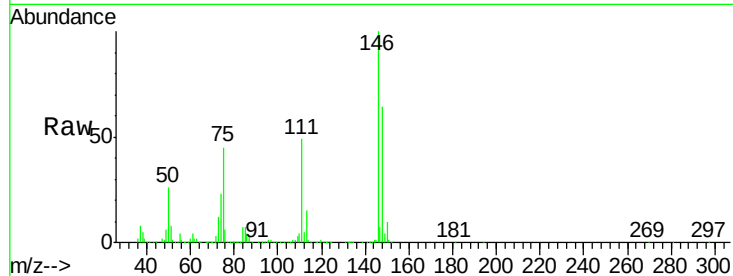
#77
 1,2-Dichlorobenzene
 Concen: 9.569 ppbv
 RT: 17.86 min Scan# 4687
 Delta R.T. -0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion:146 Resp: 1916937
 Ion Ratio Lower Upper
 146 100
 111 48.5 25.1 75.2
 148 63.2 32.4 97.0

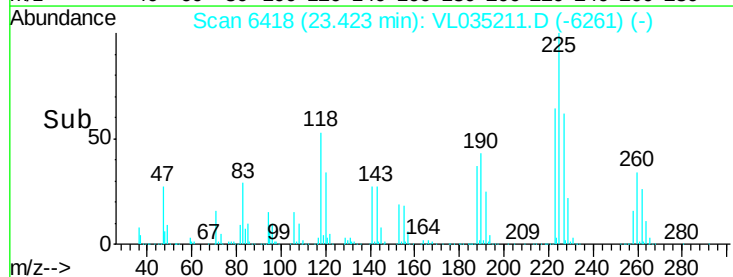
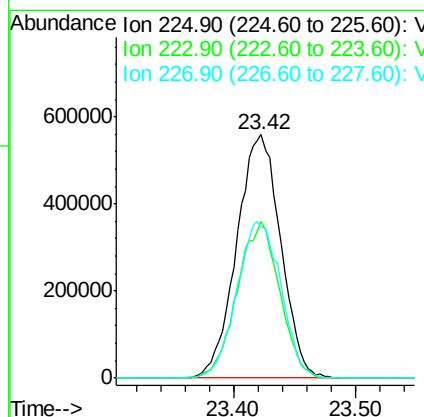
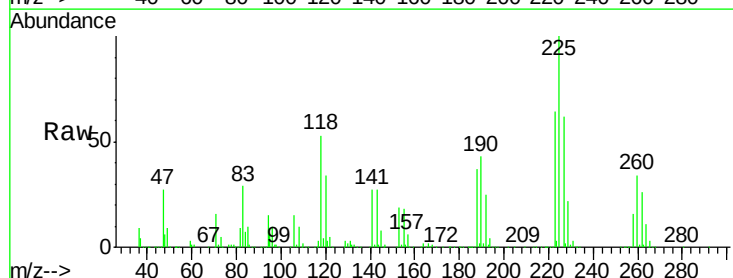
Manual Integrations
 APPROVED

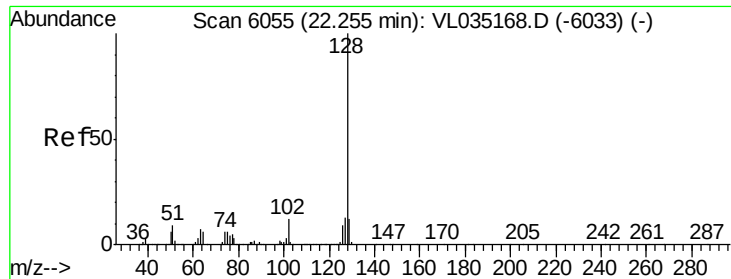
MMDadoda
 7/23/2020 3:00:14 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.796 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. 0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Tgt Ion:225 Resp: 1392413
 Ion Ratio Lower Upper
 225 100
 223 62.1 50.2 75.2
 227 64.7 51.2 76.8





#79

Naphthalene

Concen: 12.742 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Instrument :

MSVOA_L

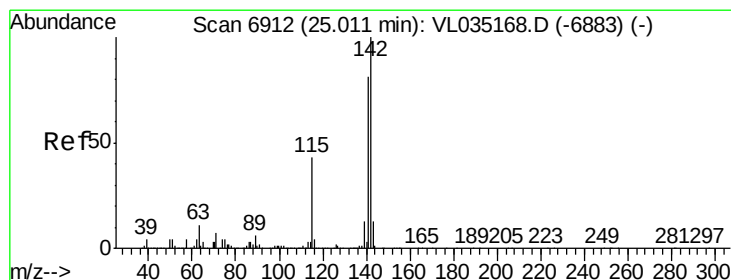
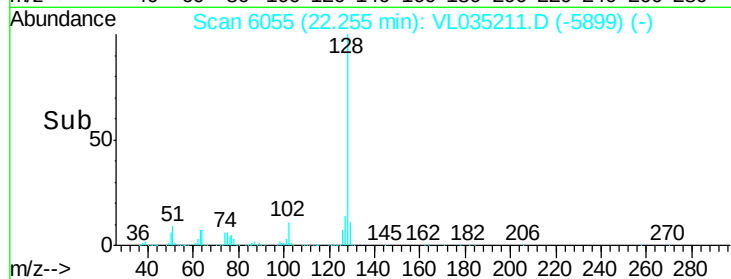
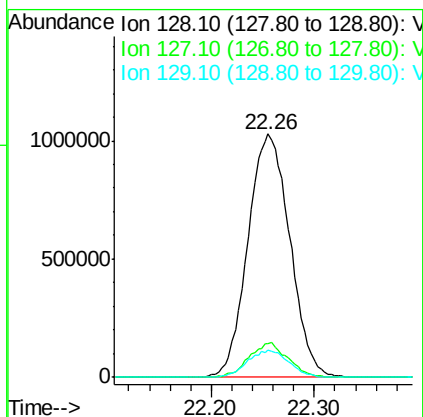
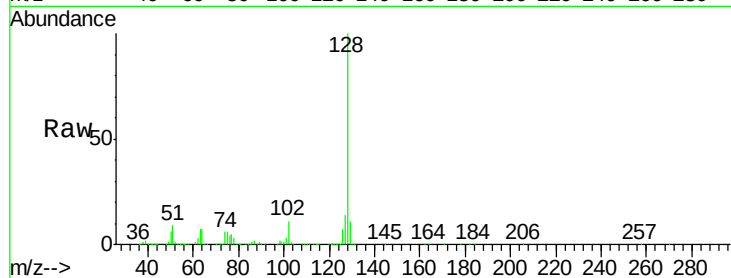
ClientSampleId :

VL0721ABS01

Tot Ion:	128	Resp:	2896797
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.8	16.2
129	11.3	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
7/23/2020 3:00:14 PM



#80

Naphthalene, 2-methyl-

Concen: 19.842 ppbv

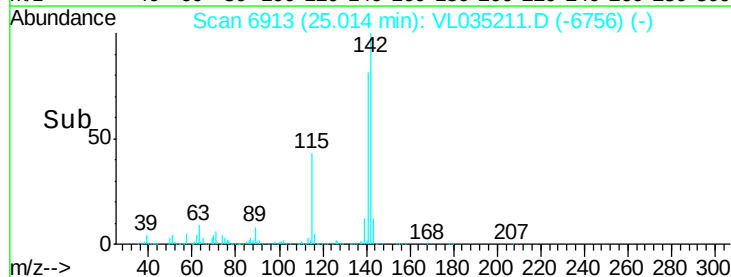
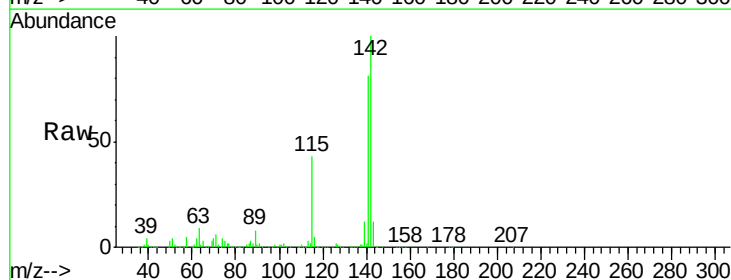
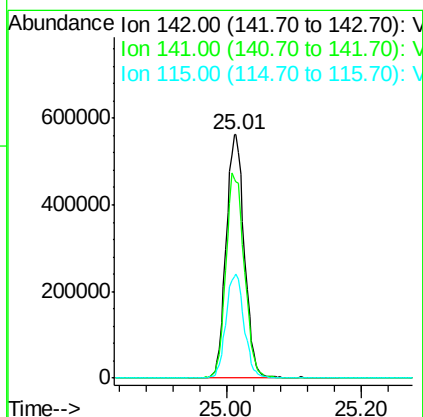
RT: 25.01 min Scan# 6913

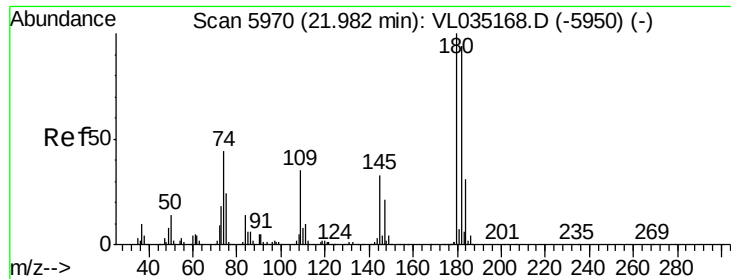
Delta R.T. 0.00 min

Lab File: VL035211.D

Acq: 21 Jul 2020 12:23

Tgt Ion:	142	Resp:	1065567
Ion	Ratio	Lower	Upper
142	100		
141	84.5	68.2	102.4
115	42.7	34.4	51.6





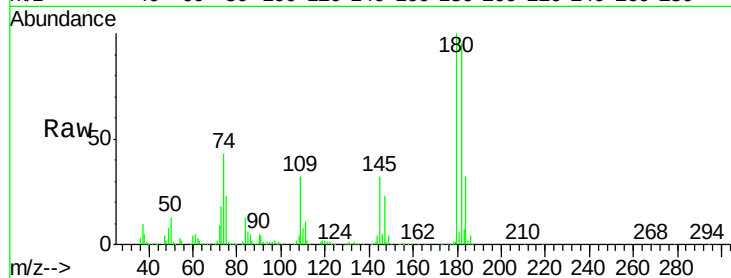
#81
 1,2,4-Trichlorobenzene
 Concen: 11.117 ppbv
 RT: 21.99 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL035211.D
 Acq: 21 Jul 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0721ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.7	115.1
184	30.9	25.0	37.6

Manual Integrations
 APPROVED

MMDadoda
 7/23/2020 3:00:14 PM



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

