

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035598.D
 Acq On : 14 Sep 2020 14:05
 Operator : SY/AP
 Sample : VL0914ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:39:59 PM

Quant Time: Sep 15 10:33:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1058928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4380202	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4590452m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3346506	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1425068	7.766	ppbv	99
3) Chlorodifluoromethane	2.98	51	1103704	9.424	ppbv	99
4) Chloromethane	3.13	50	613774	9.782	ppbv	99
5) Vinyl Chloride	3.25	62	713577	9.224	ppbv	99
6) Bromomethane	3.46	94	632243	9.730	ppbv	97
7) Chloroethane	3.55	64	271586	9.930	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	2075500	9.339	ppbv	95
9) Propene	3.00	41	428479	9.490	ppbv	100
10) Heptane	8.12	43	1236147	10.193	ppbv	100
11) Trichlorofluoromethane	3.94	101	2509503	9.377	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1919255	9.502	ppbv	95
13) Ethanol	3.59	45	94838	8.472	ppbv	98
14) Bromoethene	3.73	108	840036	9.662	ppbv	99
15) Acetone	3.84	43	1186118	10.156	ppbv	98
16) 1,3-Butadiene	3.32	39	441523	10.156	ppbv	100
17) tert-Butyl alcohol	4.29	59	1235371	8.690	ppbv	100
18) 1,1-Dichloroethene	4.28	96	881957	9.916	ppbv	98
19) Isopropyl Alcohol	3.96	45	623579	8.950	ppbv #	97
20) Methylene Chloride	4.34	84	783764	9.010	ppbv	96
21) Allyl Chloride	4.40	41	586925	10.727	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	924963	9.768	ppbv	96
23) Vinyl Acetate	5.07	43	1600875	10.680	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1490593	9.663	ppbv	99
25) Ethyl Acetate	5.67	43	2010667	9.745	ppbv	100
26) Hexane	5.68	57	1151852	9.853	ppbv	99
27) Carbon Disulfide	4.54	76	1891591	11.276	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	1972222	9.680	ppbv	99
29) Chloroform	5.75	83	2314067	9.715	ppbv	100
30) Cyclohexane	7.13	84	1263935	10.092	ppbv	97
31) cis-1,2-Dichloroethene	5.55	61	1208352	10.075	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	2277188	9.855	ppbv	98
34) 2-Butanone	5.24	43	1390934	10.700	ppbv	99
35) Carbon Tetrachloride	7.02	117	2383775	10.828	ppbv	99
36) Benzene	6.89	78	2932471	10.342	ppbv	100
37) 1,2-Dichloroethane	6.31	62	1410329	10.433	ppbv	99
38) Trichloroethene	7.84	130	1521193	9.236	ppbv	96
39) 1,2-Dichloropropane	7.62	63	988974	10.325	ppbv	97
40) 1,4-Dioxane	7.83	88	512312	10.707	ppbv	87
41) Tetrahydrofuran	6.05	42	764775	11.095	ppbv	99
42) Bromodichloromethane	7.79	83	2419334	11.067	ppbv	98
43) Methyl Methacrylate	8.02	69	1245477	11.360	ppbv	99

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Quant Time: Sep 15 10:33:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3864917	10.360	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1382464	12.447	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1644755	11.927	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1448448	10.248	ppbv	98
48) Dibromochloromethane	10.31	129	2480678	11.152	ppbv	100
49) Bromoform	13.05	173	2241950	11.121	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2092262	11.115	ppbv	100
51) 2-Hexanone	10.14	43	1822528	11.803	ppbv #	99
52) Tetrachloroethene	11.23	164	1476291	8.913	ppbv	97
53) Toluene	9.81	91	3737829	10.483	ppbv	100
54) 1,2-Dibromoethane	10.62	107	2296957	10.285	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	1938124	10.376	ppbv	99
57) Chlorobenzene	12.16	112	3221141	9.534	ppbv	97
58) Ethyl Benzene	12.72	91	4935351	10.426	ppbv	99
59) m/p-Xylene	13.01	91	8479756m	21.438	ppbv	
60) o-Xylene	13.70	91	4149503	10.416	ppbv	98
61) Styrene	13.54	104	3299977	10.831	ppbv	99
62) Isopropylbenzene	14.68	105	6266498	9.792	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	2984227	9.662	ppbv	99
64) n-propylbenzene	15.58	120	1966043	10.067	ppbv	91
65) tert-Butylbenzene	16.76	119	5864018	9.857	ppbv	97
66) Benzyl Chloride	17.01	91	2141528	14.485	ppbv	97
67) sec-Butylbenzene	17.31	105	7790402	9.830	ppbv	97
69) p-Isopropyltoluene	17.67	119	6778421	9.750	ppbv	98
70) n-Butylbenzene	18.57	91	6791958	10.143	ppbv	98
71) 2-Chlorotoluene	15.46	91	4857148	10.423	ppbv	97
72) 4-Ethyltoluene	15.85	105	5243931	10.354	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	4834940	10.321	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	5100507	9.915	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	3515216	9.225	ppbv	98
76) 1,4-Dichlorobenzene	17.16	146	3555141	9.460	ppbv	98
77) 1,2-Dichlorobenzene	17.83	146	3422186	9.270	ppbv	98
78) Hexachloro-1,3-Butadiene	23.40	225	2080867	8.829	ppbv	100
79) Naphthalene	22.22	128	5928866	10.387	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	2200003	11.292	ppbv	99
81) 1,2,4-Trichlorobenzene	21.95	180	3189577	9.331	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 49 Resp: 1058928

Ion Ratio Lower Upper

49 100

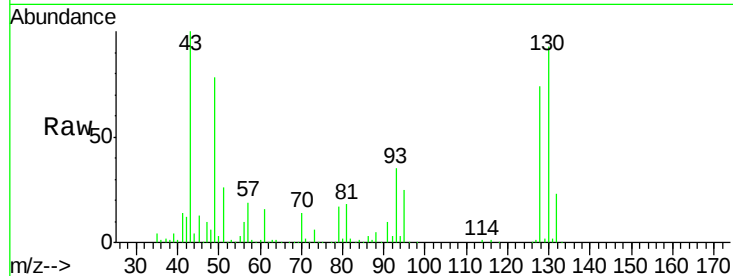
128 92.4 50.0 150.1

130 118.1 64.4 193.2

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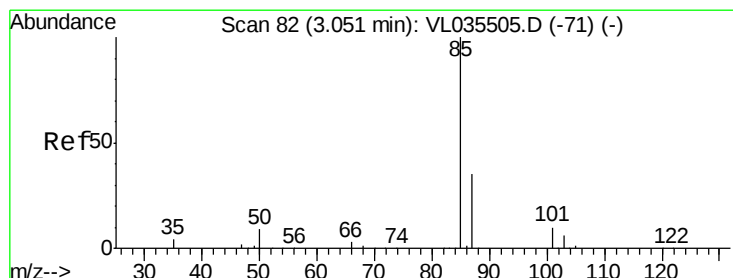
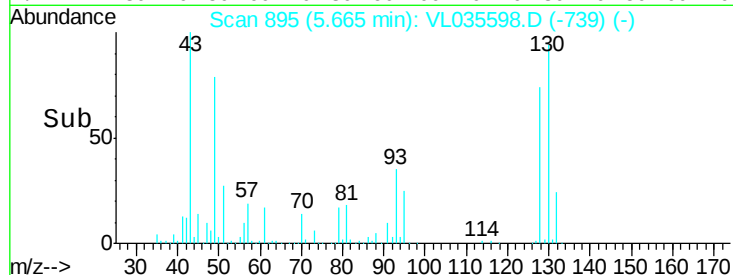
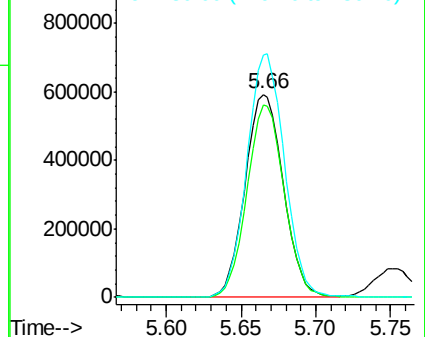
9/17/2020 5:39:59 PM



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



#2

Dichlorodifluoromethane

Concen: 7.766 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL035598.D

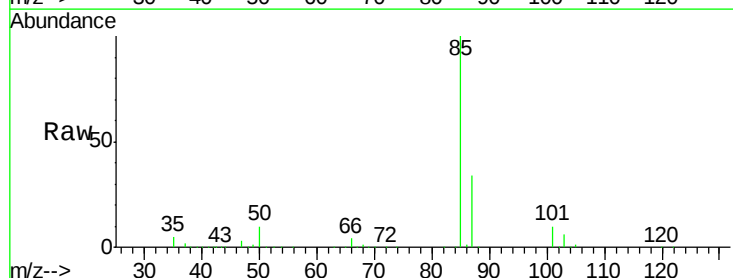
Acq: 14 Sep 2020 14:05

Tgt Ion: 85 Resp: 1425068

Ion Ratio Lower Upper

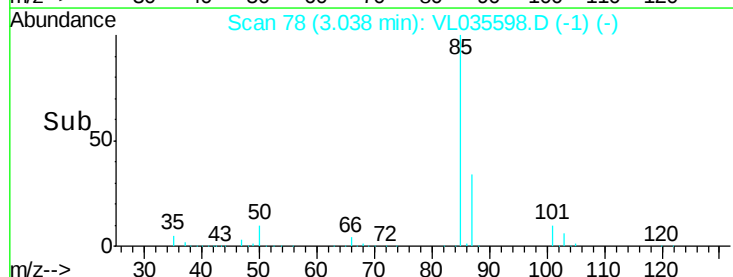
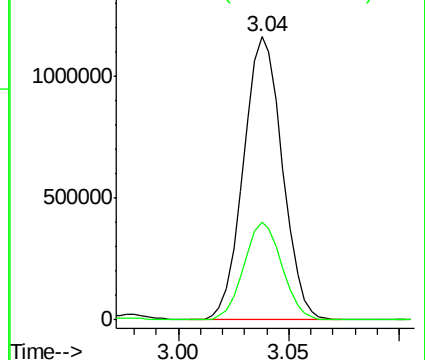
85 100

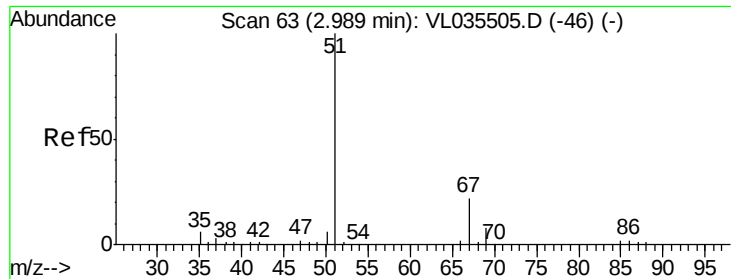
87 34.3 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





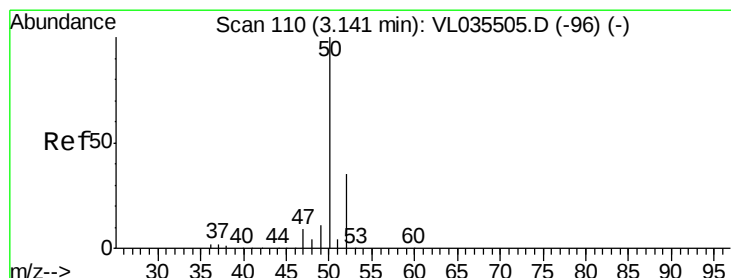
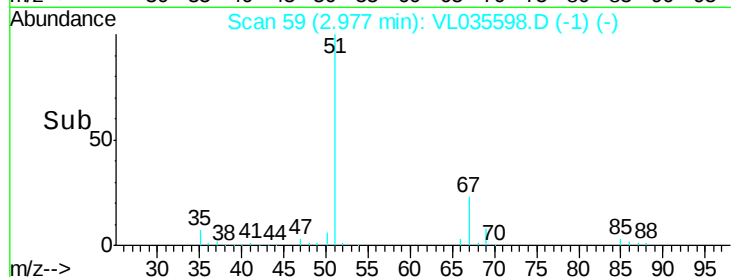
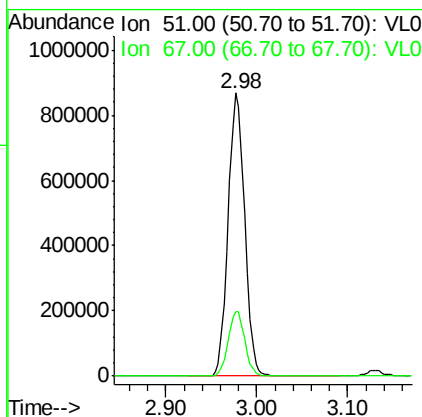
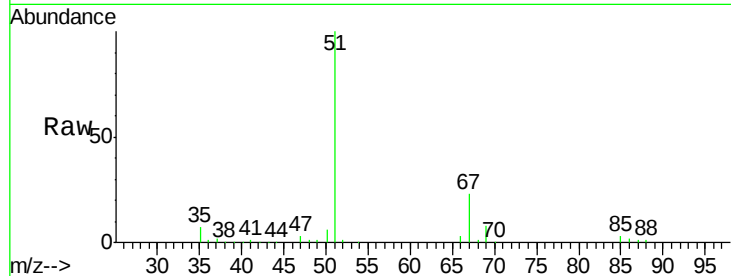
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 Chlorodifluoromethane
 Concen: 9.424 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion: 51 Resp: 1103704
 Ion Ratio Lower Upper
 51 100
 67 22.9 17.8 26.8

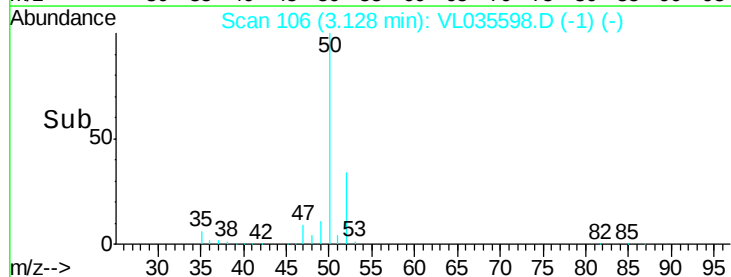
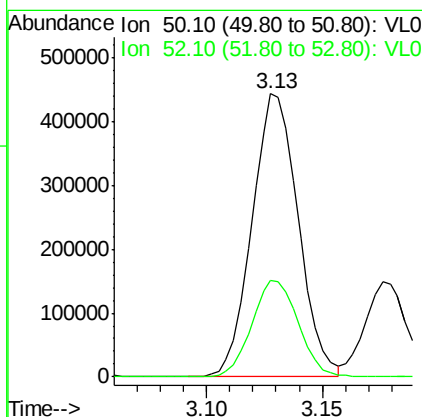
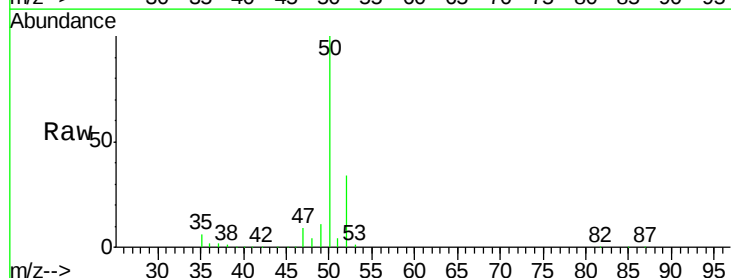
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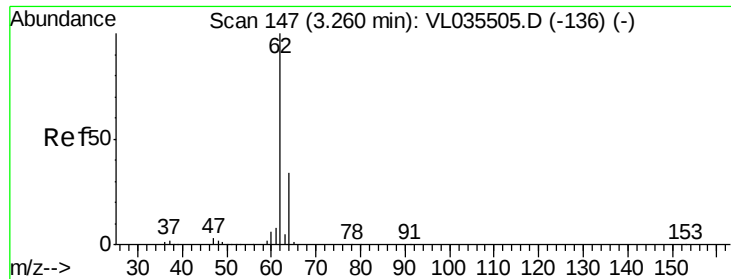
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#4
 Chloromethane
 Concen: 9.782 ppbv
 RT: 3.13 min Scan# 106
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Tgt Ion: 50 Resp: 613774
 Ion Ratio Lower Upper
 50 100
 52 34.1 27.7 41.5





#5

Vinyl Chloride

Concen: 9.224 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 62 Resp: 713577

Ion Ratio Lower Upper

62 100

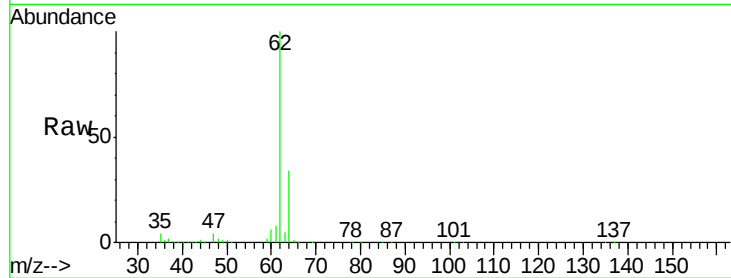
64 33.7 27.4 41.2

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

600000

500000

400000

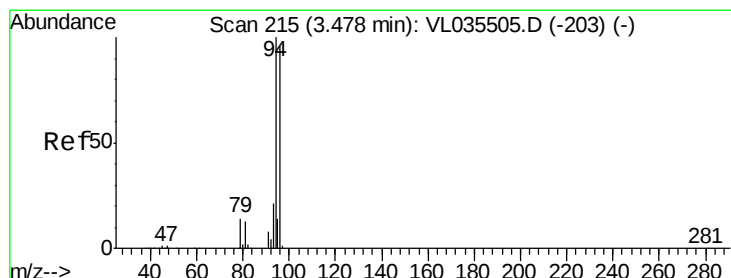
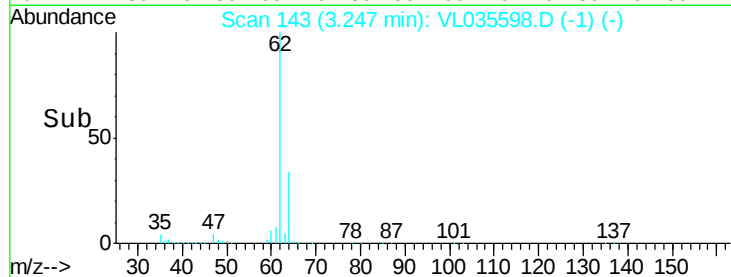
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.730 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL035598.D

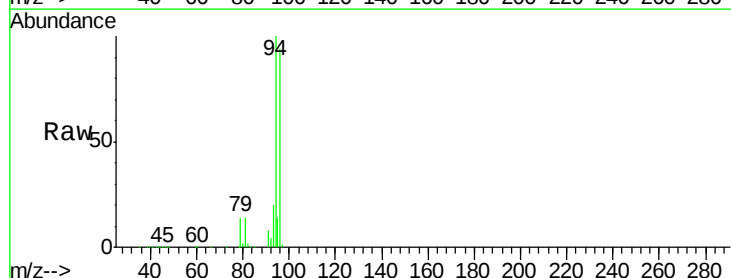
Acq: 14 Sep 2020 14:05

Tgt Ion: 94 Resp: 632243

Ion Ratio Lower Upper

94 100

96 93.9 77.1 115.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.46

500000

400000

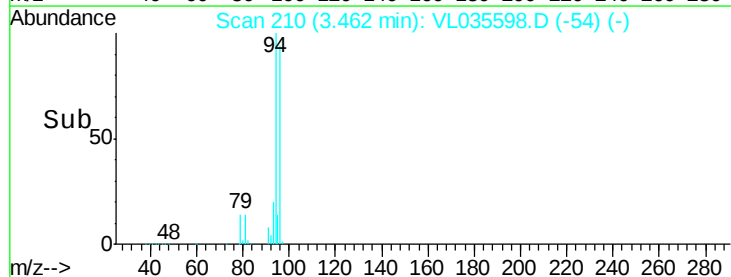
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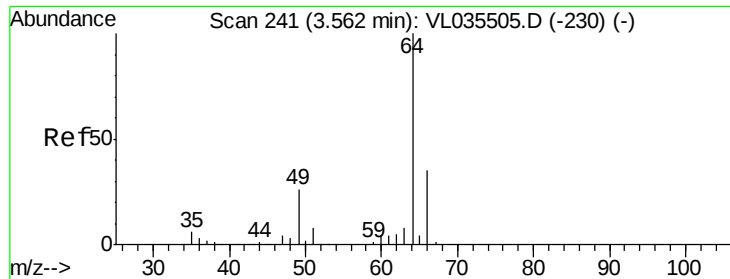
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.930 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 64 Resp: 271586

Ion Ratio Lower Upper

64 100

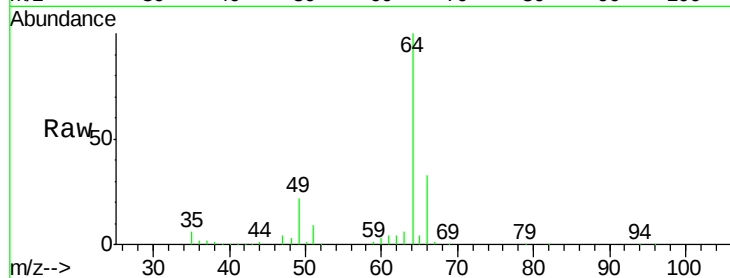
66 32.9 27.7 41.5

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

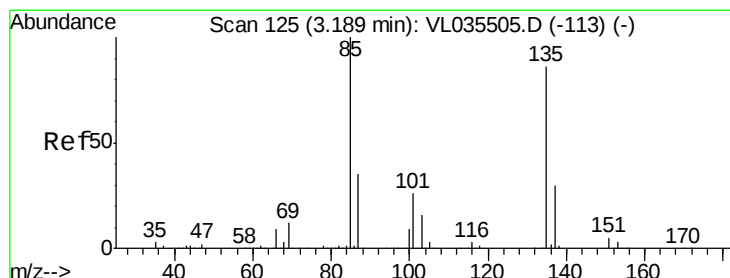
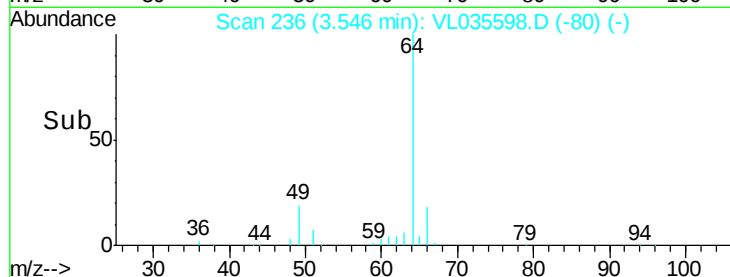
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.339 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL035598.D

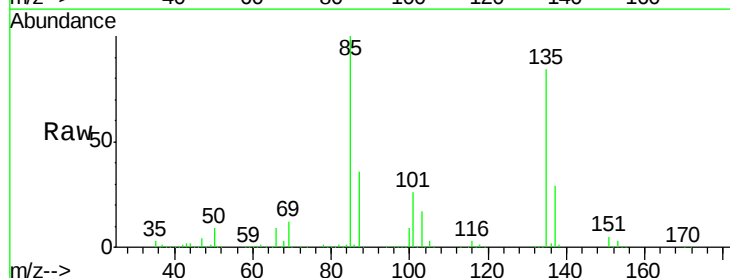
Acq: 14 Sep 2020 14:05

Tgt Ion: 85 Resp: 2075500

Ion Ratio Lower Upper

85 100

135 82.9 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

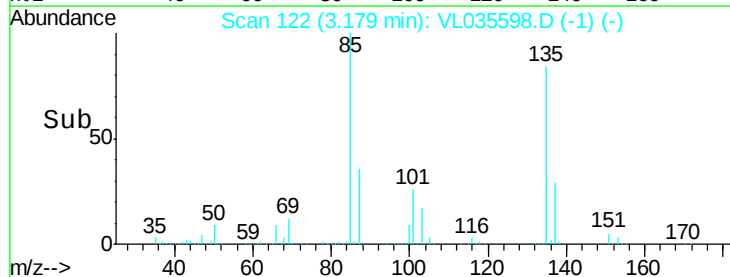
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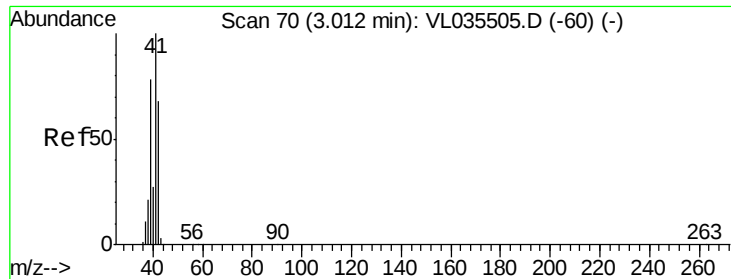
1000000

500000

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Time-->





#9

Propene

Concen: 9.490 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 41 Resp: 428479

Ion Ratio Lower Upper

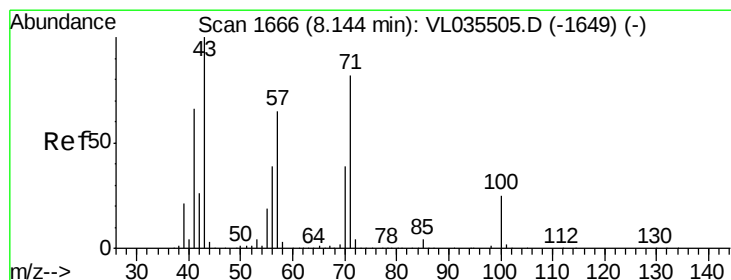
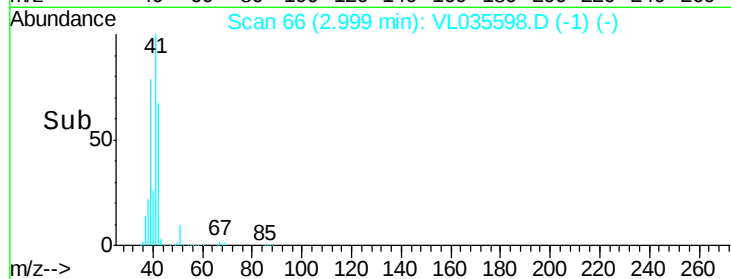
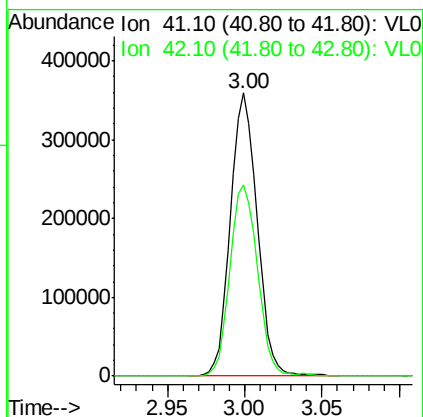
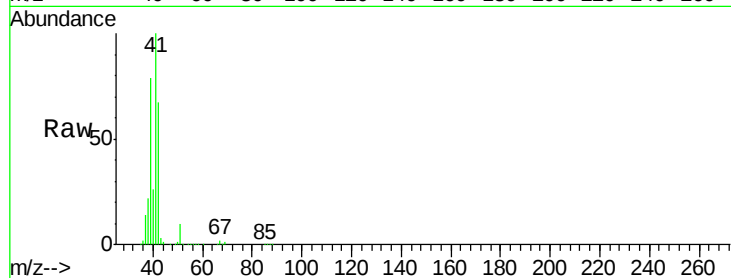
41 100

42 70.0 56.3 84.5

Manual Integrations
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#10

Heptane

Concen: 10.193 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035598.D

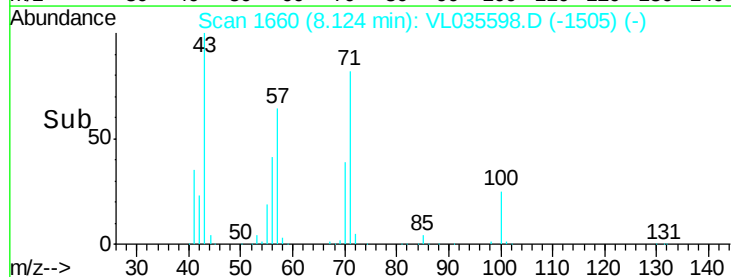
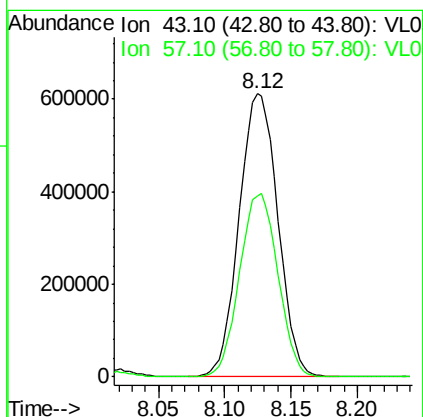
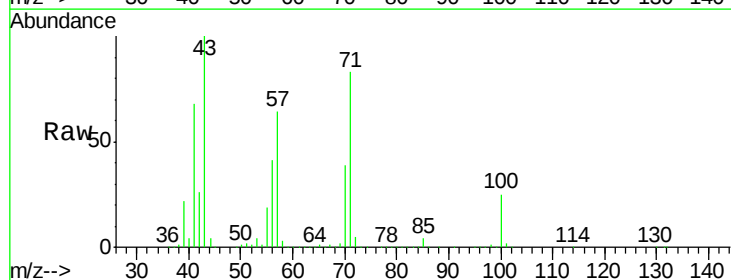
Acq: 14 Sep 2020 14:05

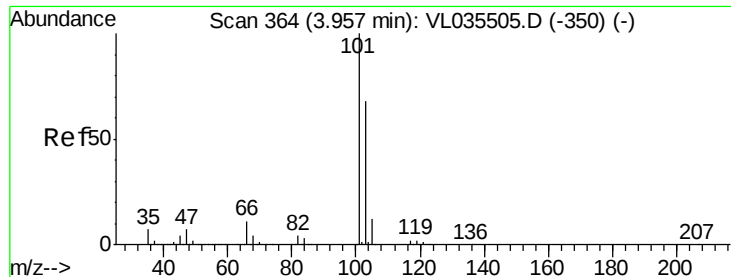
Tgt Ion: 43 Resp: 1236147

Ion Ratio Lower Upper

43 100

57 64.6 51.4 77.0





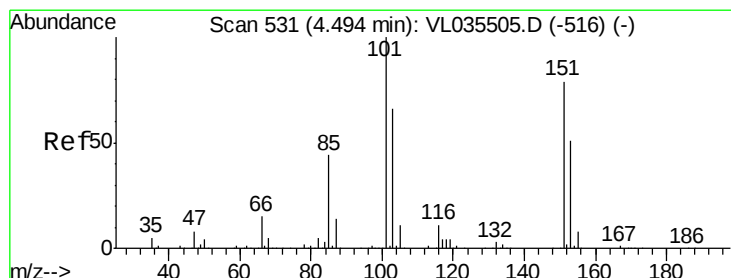
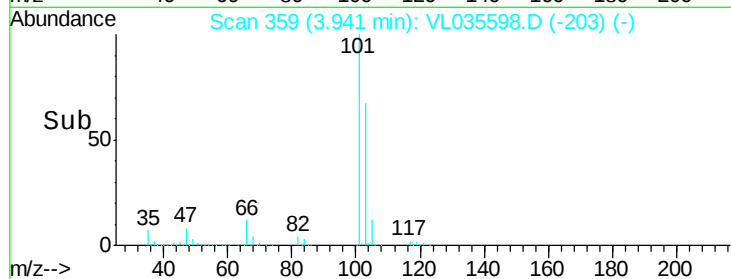
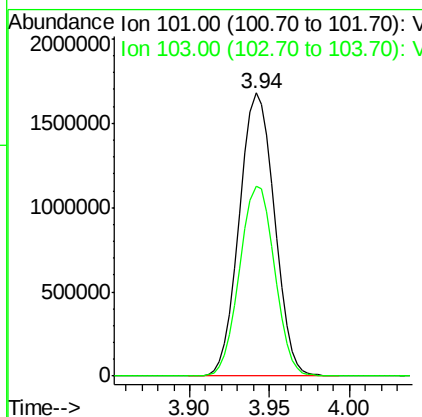
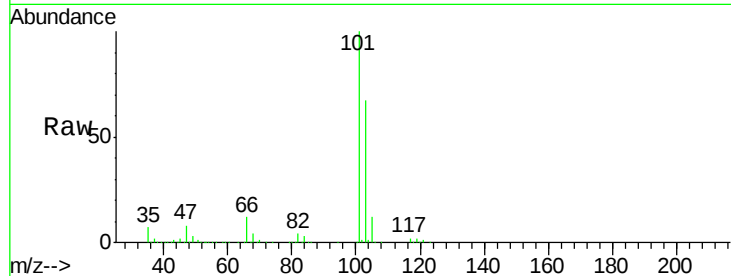
#11
 Trichlorofluoromethane
 Concen: 9.377 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion:101 Resp: 2509503
 Ion Ratio Lower Upper
 101 100
 103 67.2 54.5 81.7

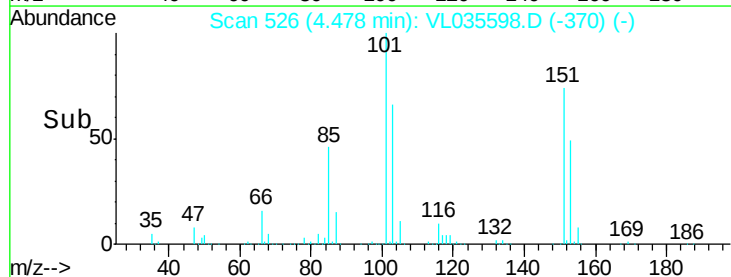
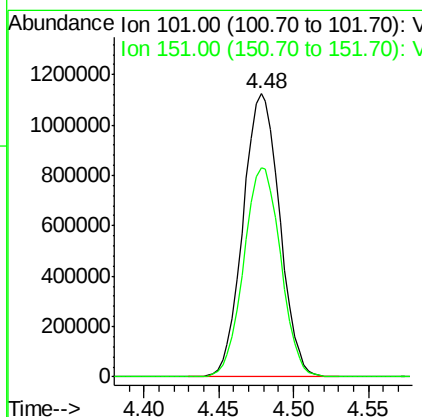
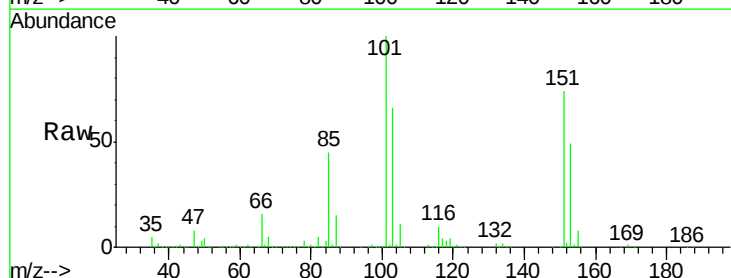
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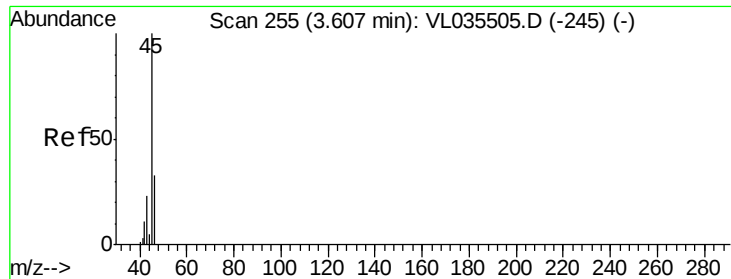
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.502 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Tgt Ion:101 Resp: 1919255
 Ion Ratio Lower Upper
 101 100
 151 74.7 63.5 95.3





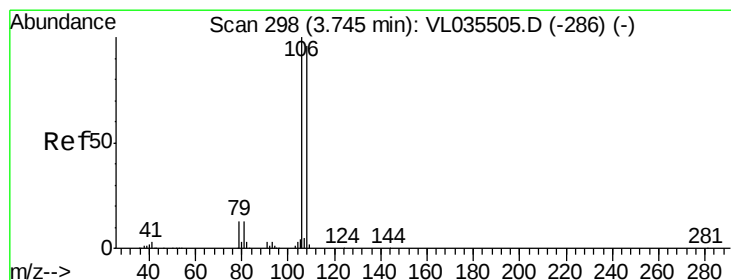
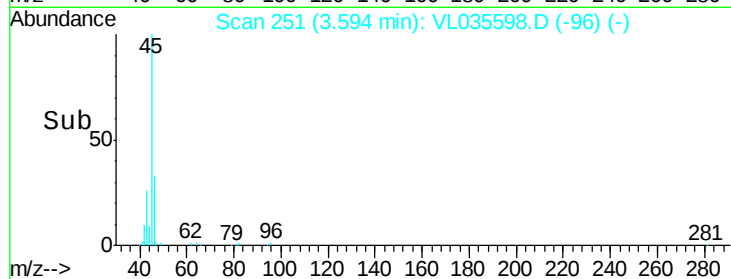
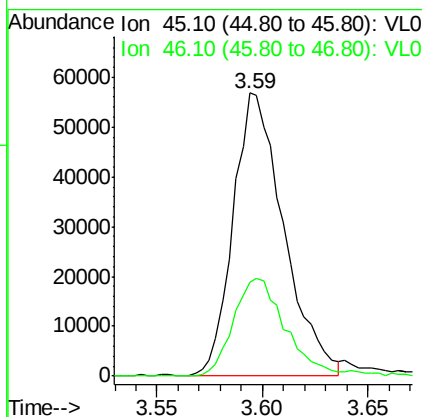
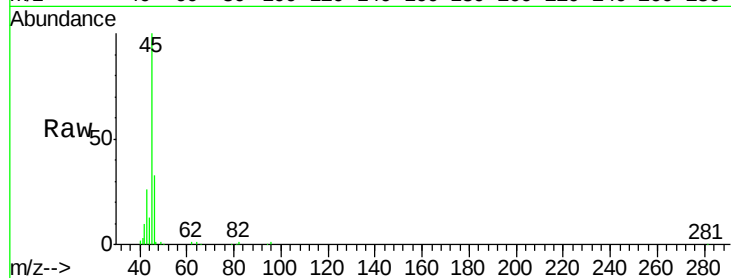
#13
Ethanol
Concen: 8.472 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.6	15.2	60.6

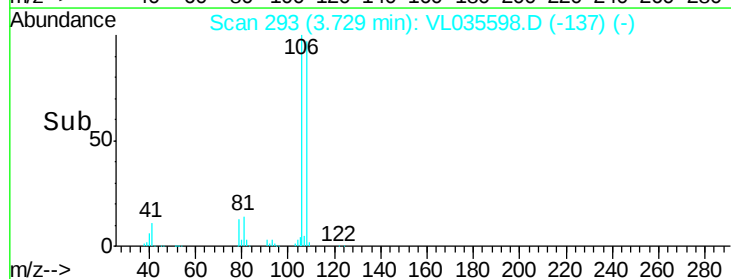
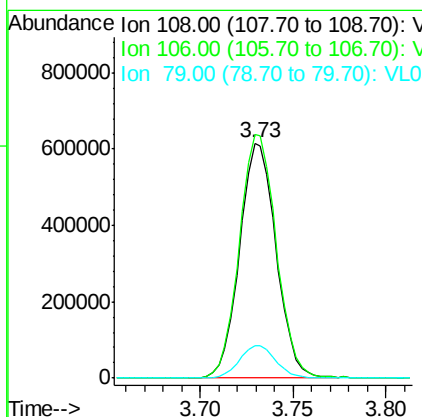
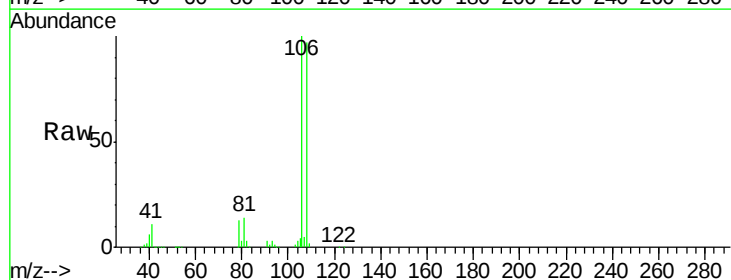
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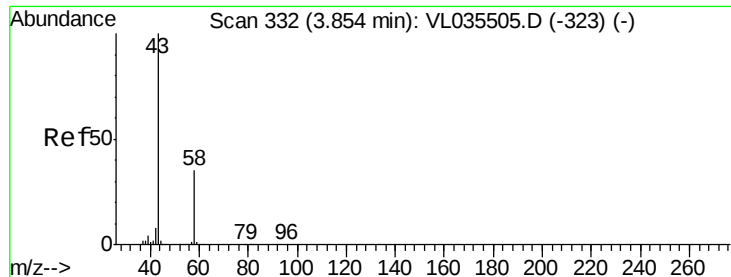
MMDadoda
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#14
Bromoethene
Concen: 9.662 ppbv
RT: 3.73 min Scan# 293
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.6	84.9	127.3
79	14.0	10.8	16.2





#15

Acetone

Concen: 10.156 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tot Ion: 43 Resp: 1186118

Ion Ratio Lower Upper

43 100

58 36.4 28.4 42.6

Instrument :

MSVOA_L

ClientSampleId :

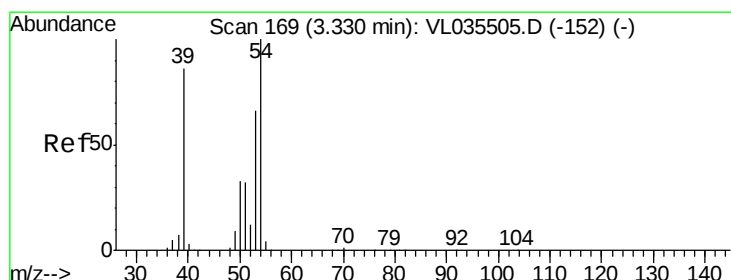
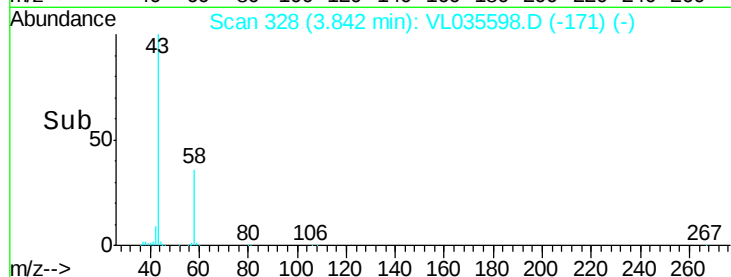
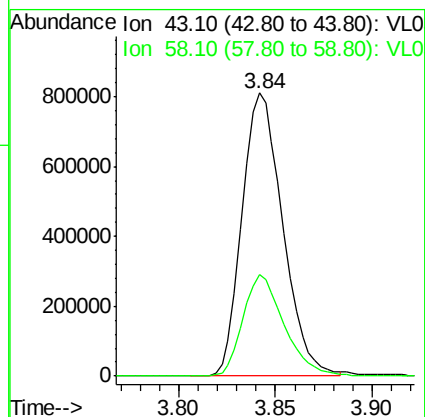
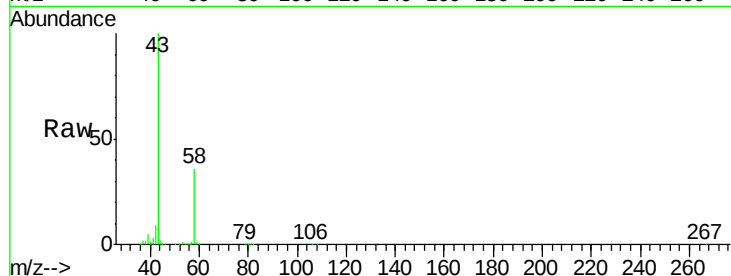
VL0914ABS01

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#16

1,3-Butadiene

Concen: 10.156 ppbv

RT: 3.32 min Scan# 165

Delta R.T. 0.00 min

Lab File: VL035598.D

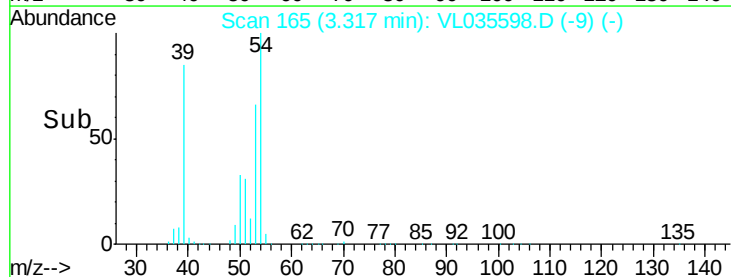
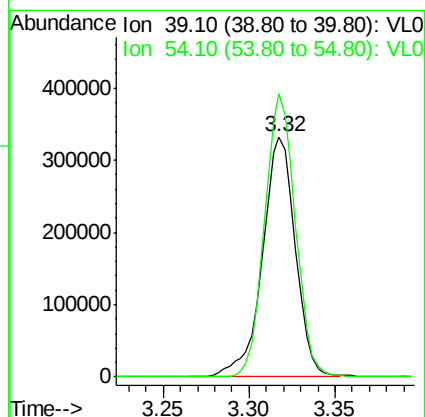
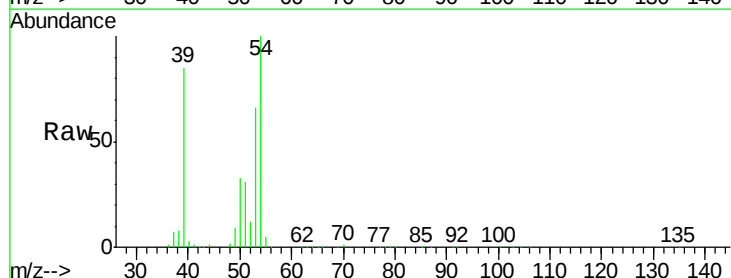
Acq: 14 Sep 2020 14:05

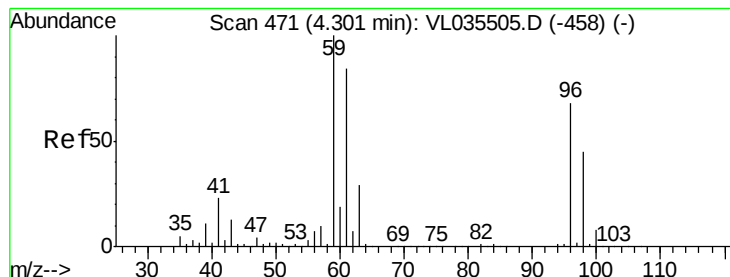
Tgt Ion: 39 Resp: 441523

Ion Ratio Lower Upper

39 100

54 110.3 88.4 132.6





#17

tert-Butyl alcohol

Concen: 8.690 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 59 Resp: 1235371

Ion Ratio Lower Upper

59 100

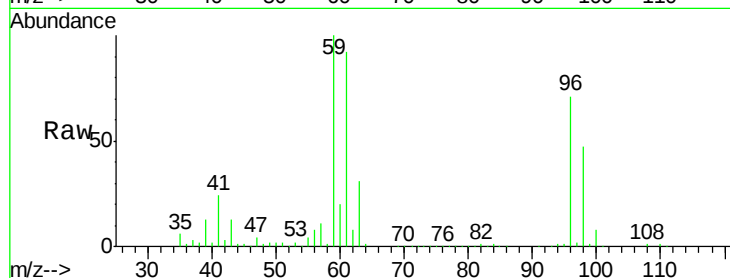
57 10.6 8.4 12.6

Manual Integrations

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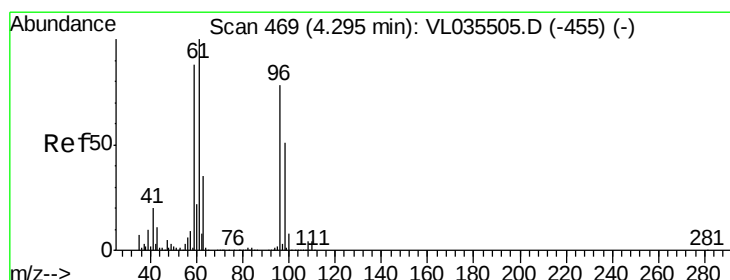
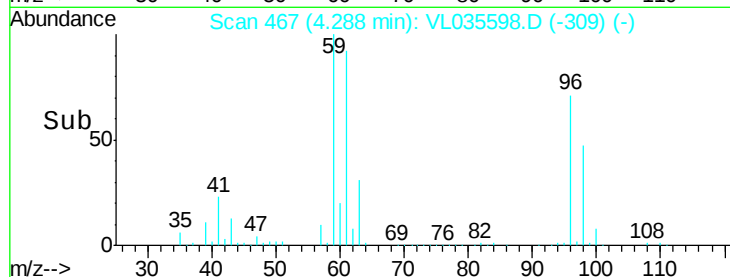
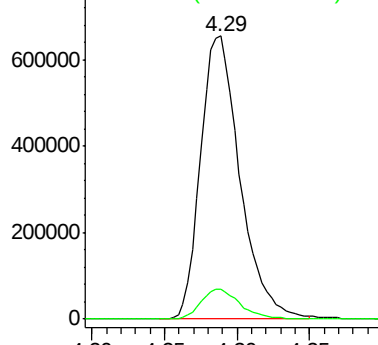
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.916 ppbv

RT: 4.28 min Scan# 465

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

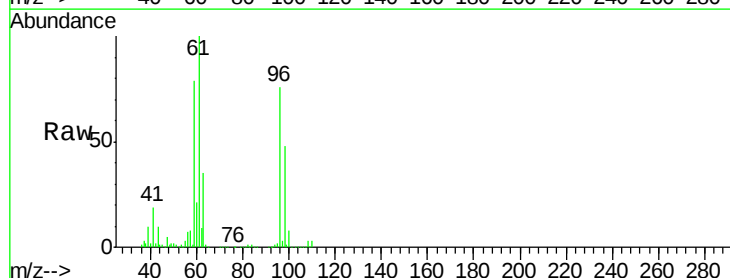
Tgt Ion: 96 Resp: 881957

Ion Ratio Lower Upper

96 100

61 131.1 103.0 154.6

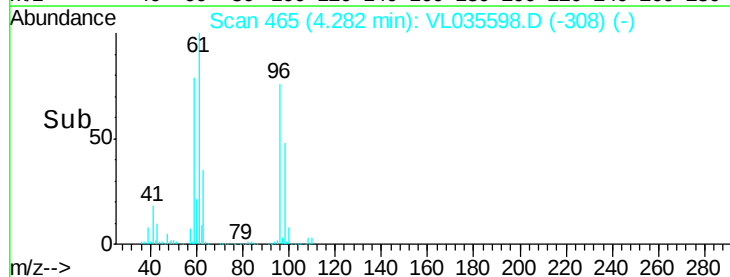
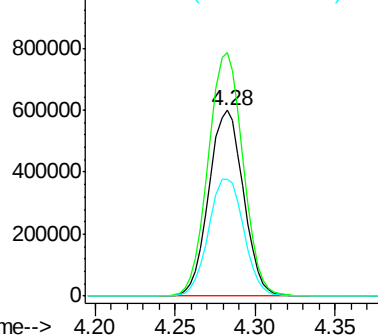
98 63.2 52.8 79.2

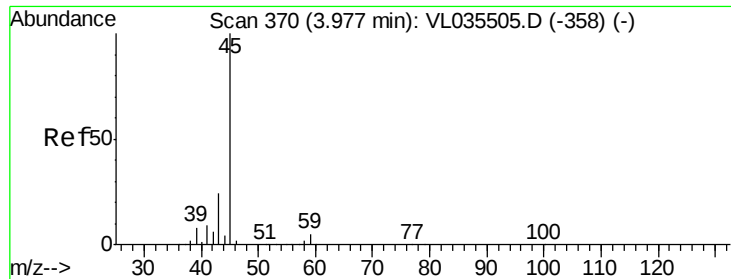


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.950 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 45 Resp: 623579

Ion Ratio Lower Upper

45 100

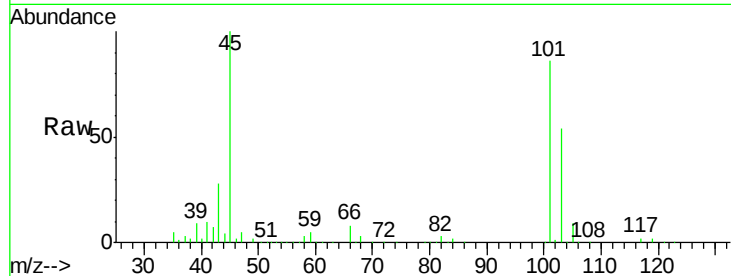
58 3.6 2.0 3.0#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

400000

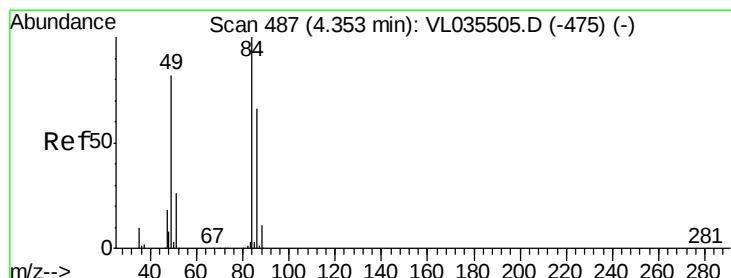
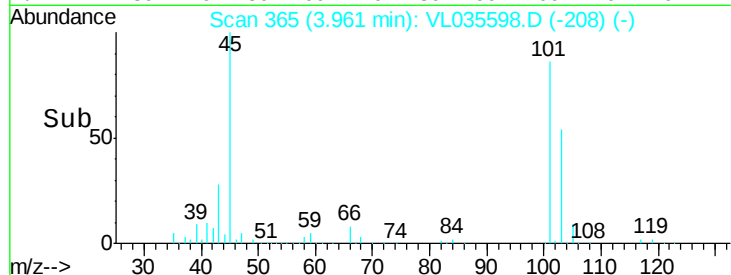
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.010 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion: 84 Resp: 783764

Ion Ratio Lower Upper

84 100

49 86.6 65.4 98.0

51 28.0 21.5 32.3

86 67.6 52.9 79.3

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

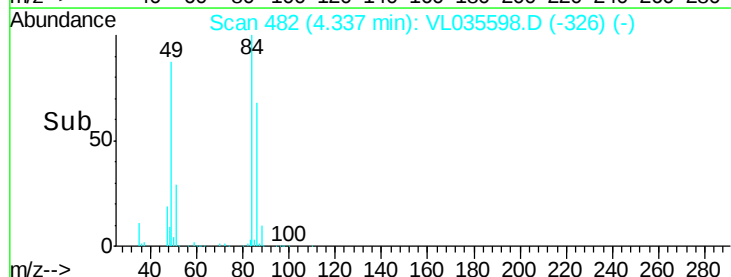
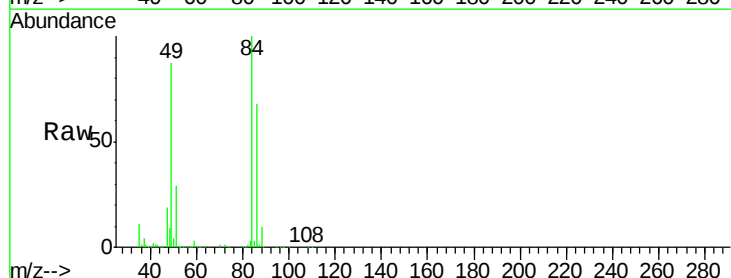
600000

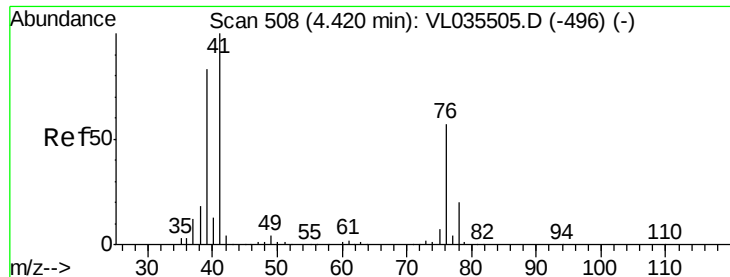
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 10.727 ppbv

RT: 4.40 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

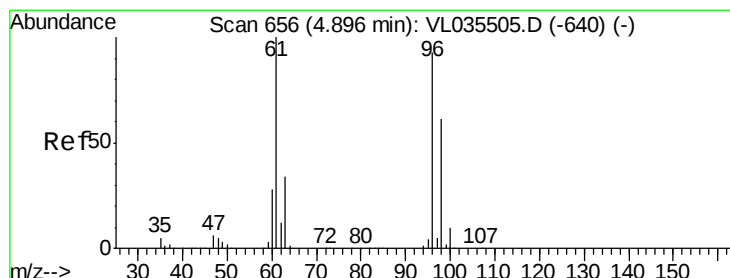
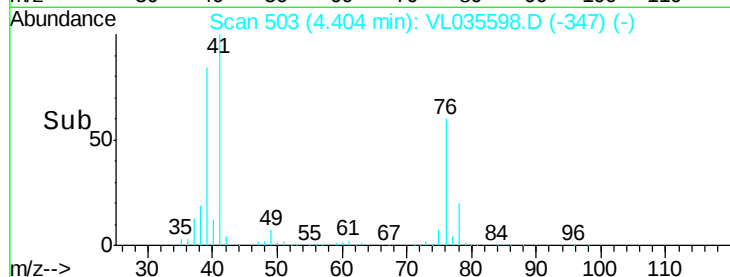
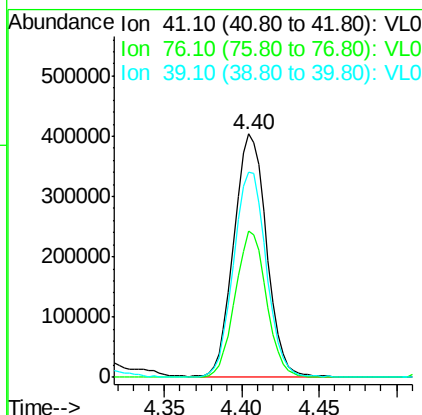
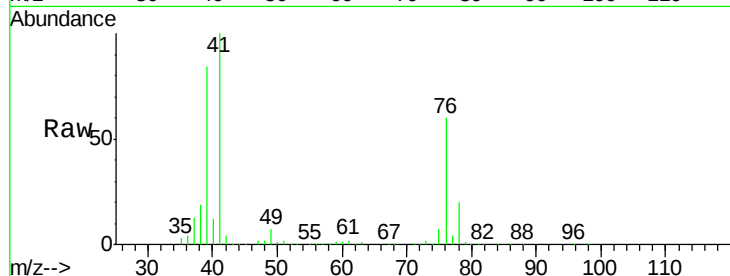
ClientSampleId :

VL0914ABS01

Tot Ion:	41	Resp:	586925
Ion	Ratio	Lower	Upper
41	100		
76	58.4	46.2	69.2
39	85.5	67.8	101.6

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#22

trans-1,2-Dichloroethene

Concen: 9.768 ppbv

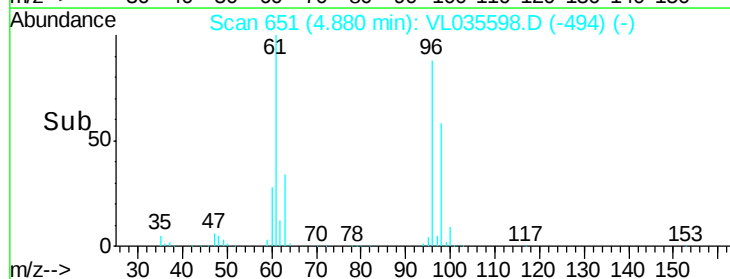
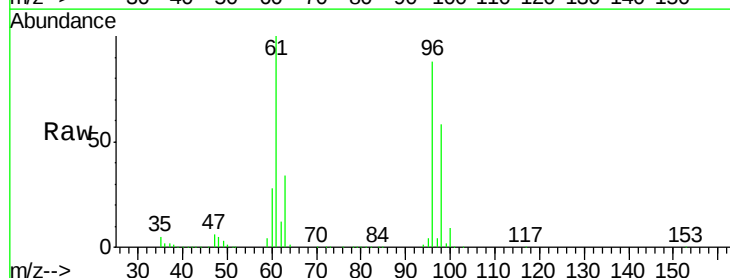
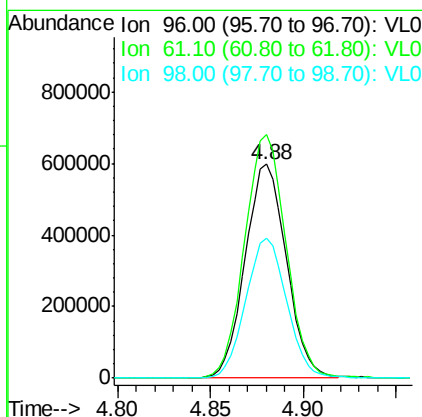
RT: 4.88 min Scan# 651

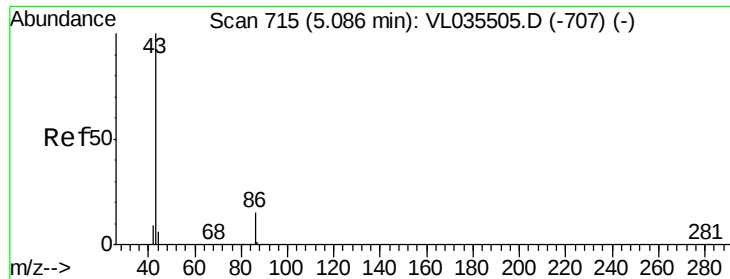
Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion:	96	Resp:	924963
Ion	Ratio	Lower	Upper
96	100		
61	113.7	86.0	129.0
98	65.4	52.3	78.5





#23

Vinyl Acetate

Concen: 10.680 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 43 Resp: 1600875

Ion Ratio Lower Upper

43 100

86 13.6 10.6 16.0

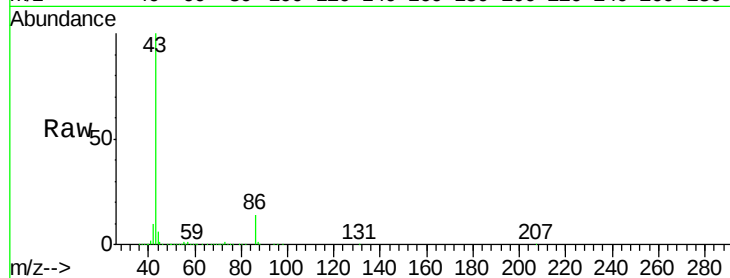
42 10.3 7.5 11.3

44 5.9 4.4 6.6

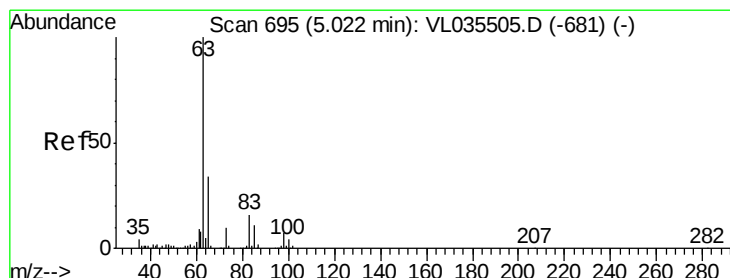
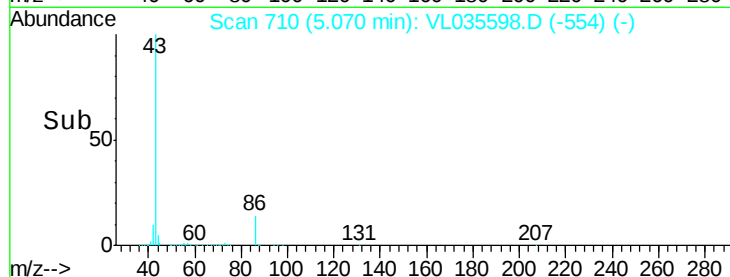
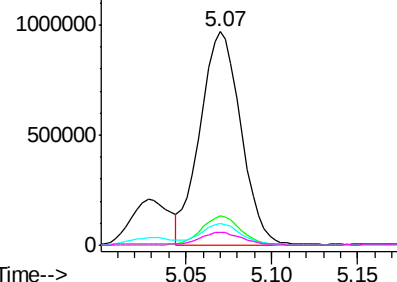
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Abundance Ion 43.10 (42.80 to 43.80): VL0
1500000 Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.663 ppbv

RT: 5.01 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

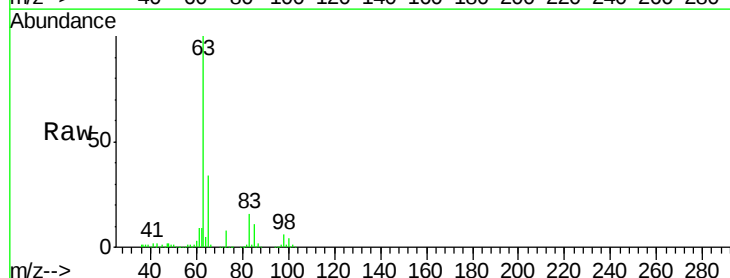
Tgt Ion: 63 Resp: 1490593

Ion Ratio Lower Upper

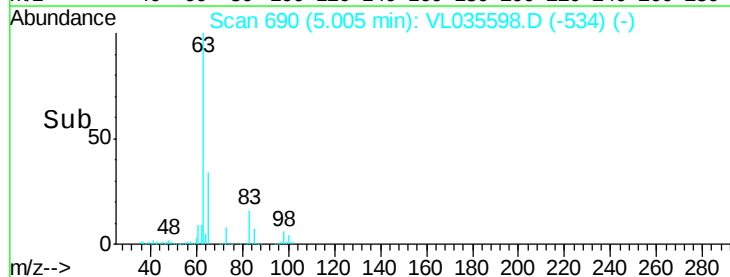
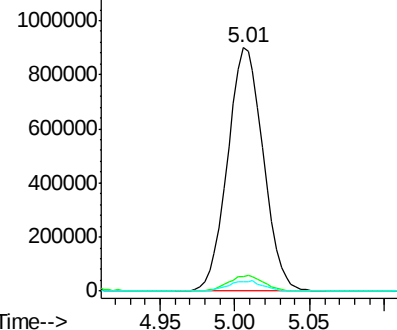
63 100

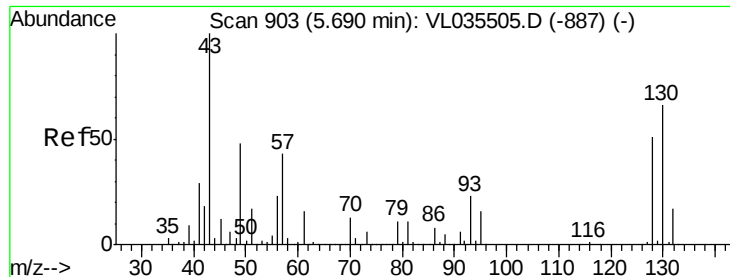
98 6.1 3.4 10.1

100 4.0 2.1 6.5



Abundance Ion 63.10 (62.80 to 63.80): VL0
1200000 Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.745 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 43 Resp: 2010667

Ion Ratio Lower Upper

43 100

45 10.8 8.4 12.6

61 13.2 10.6 16.0

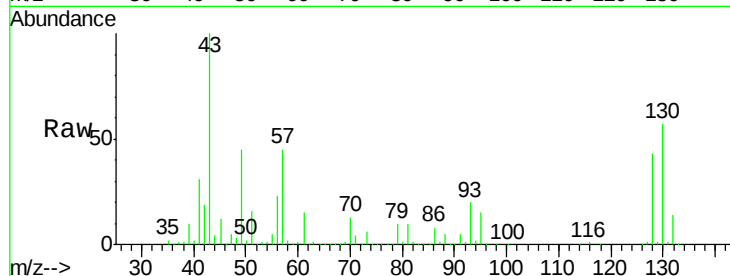
70 11.6 9.4 14.2

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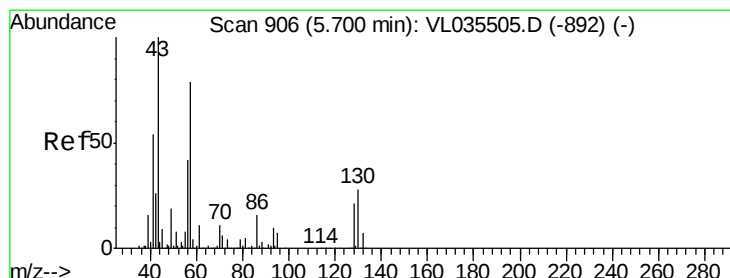
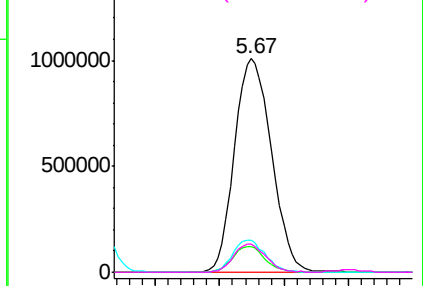
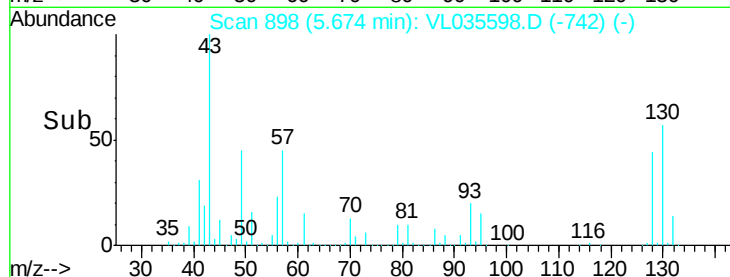


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.853 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion: 57 Resp: 1151852

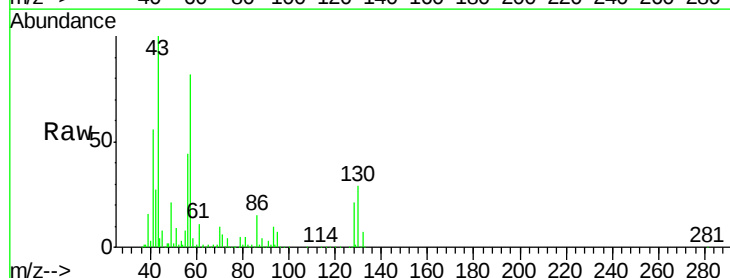
Ion Ratio Lower Upper

57 100

41 70.2 55.9 83.9

43 175.3 141.8 212.8

56 52.5 41.8 62.8

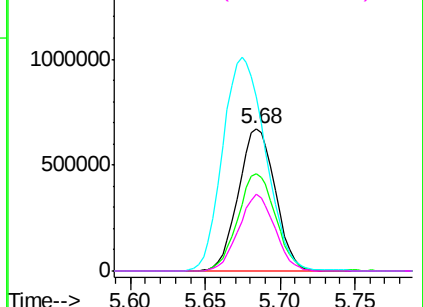
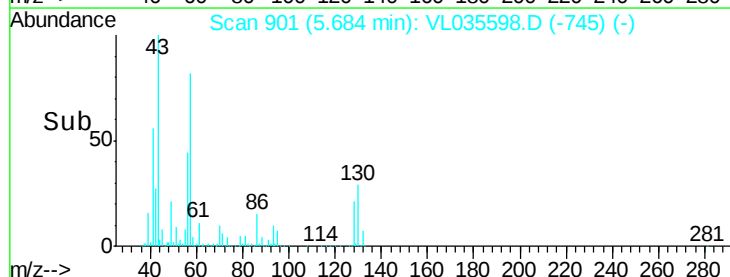


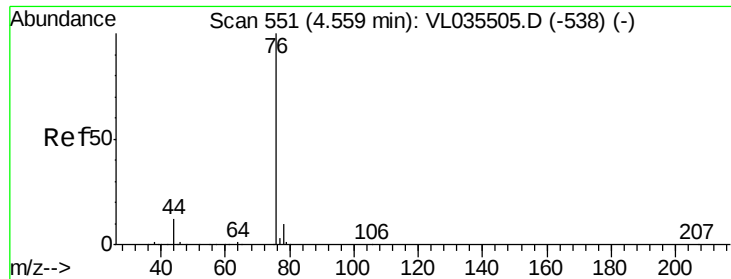
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.276 ppbv

RT: 4.54 min Scan# 546

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 76 Resp: 1891591

Ion Ratio Lower Upper

76 100

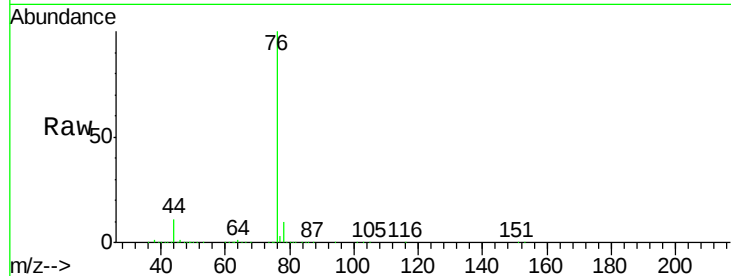
44 11.5 9.3 13.9

78 9.7 7.8 11.6

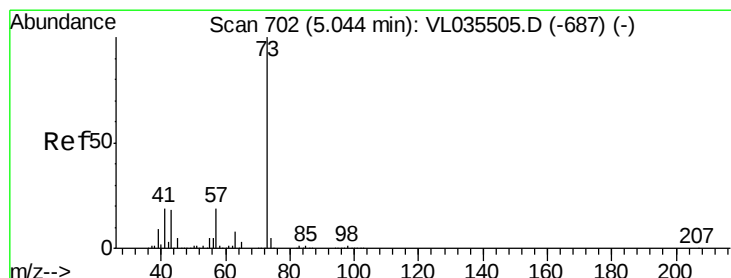
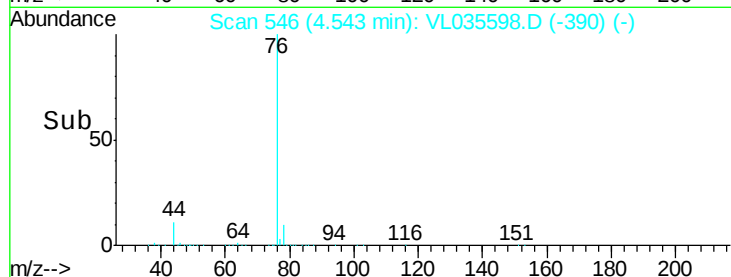
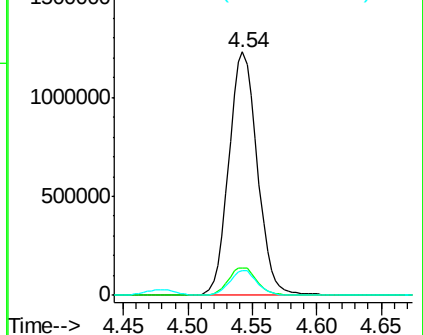
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.680 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.00 min

Lab File: VL035598.D

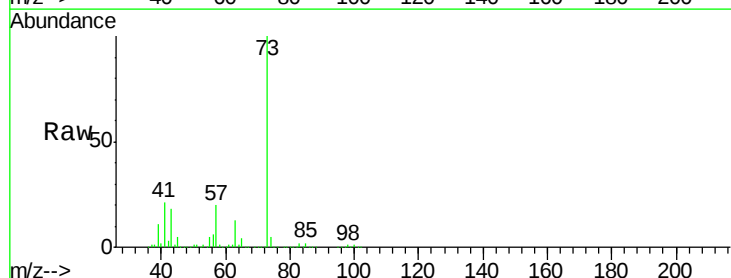
Acq: 14 Sep 2020 14:05

Tgt Ion: 73 Resp: 1972222

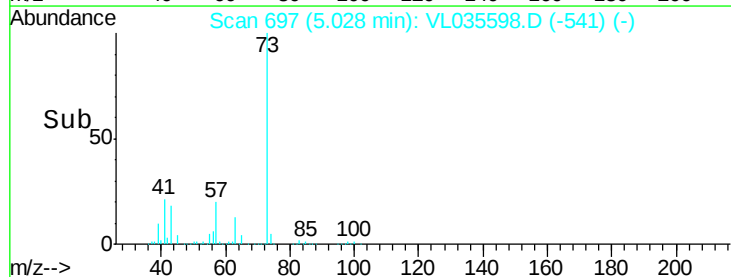
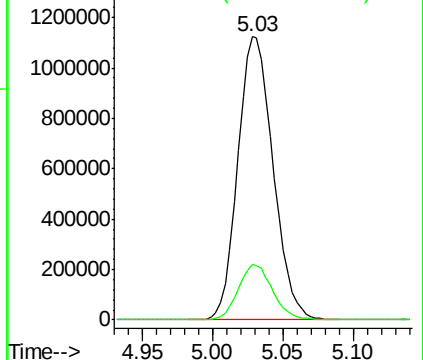
Ion Ratio Lower Upper

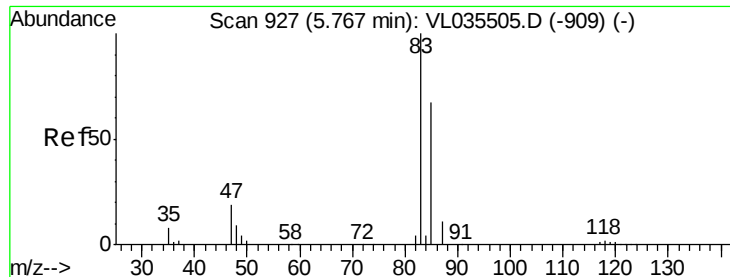
73 100

57 19.2 15.2 22.8



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





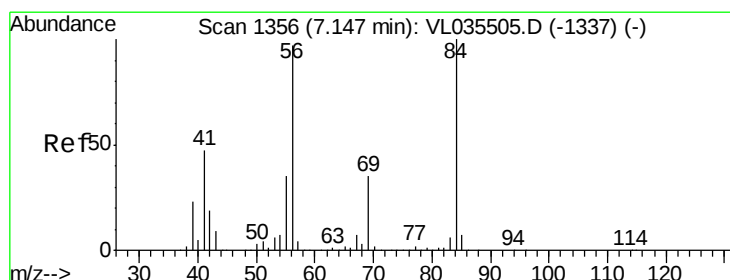
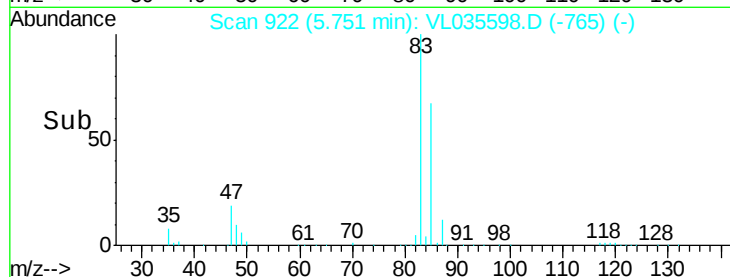
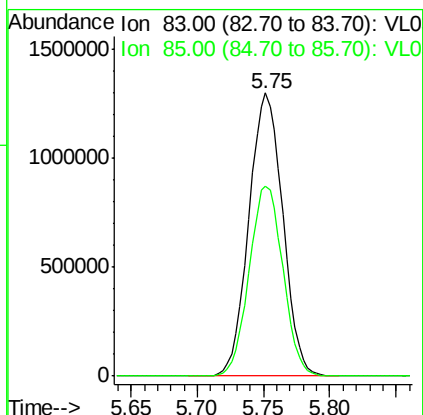
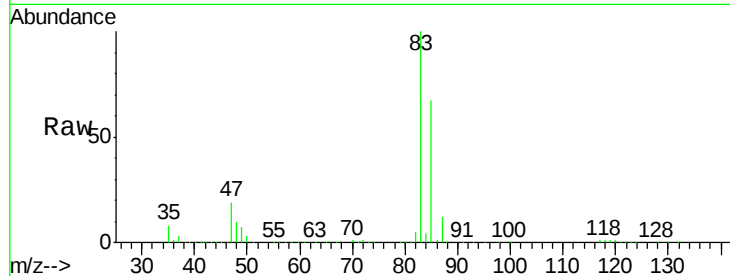
#29
Chloroform
Concen: 9.715 ppbv
RT: 5.75 min Scan# 922
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

Tot Ion: 83 Resp: 2314067
Ion Ratio Lower Upper
83 100
85 67.1 53.9 80.9

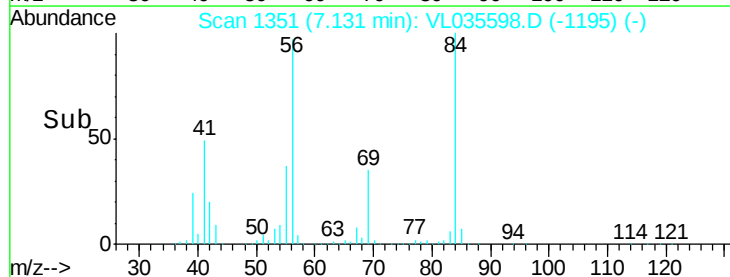
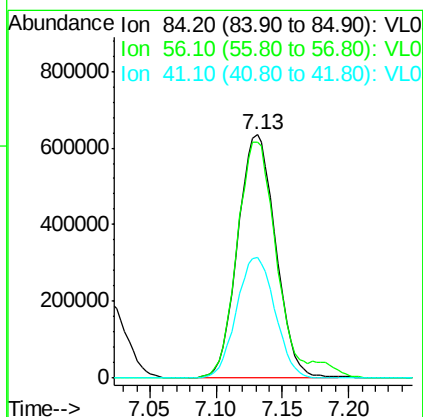
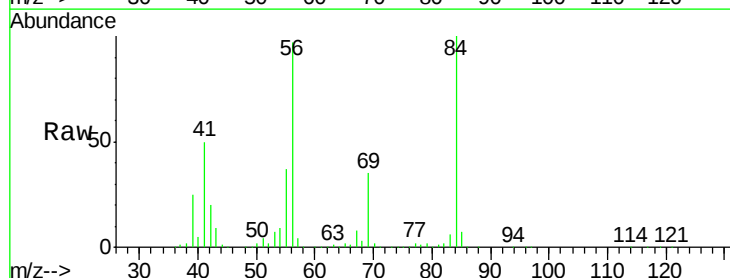
Manual Integrations
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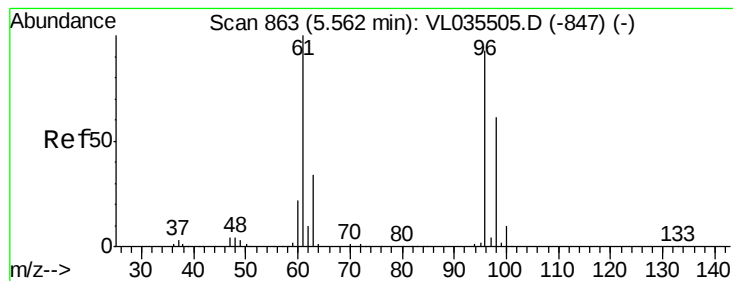
MMDadoda
9/17/2020 5:39:59 PM



#30
Cyclohexane
Concen: 10.092 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion: 84 Resp: 1263935
Ion Ratio Lower Upper
84 100
56 103.0 80.1 120.1
41 50.3 38.1 57.1





#31

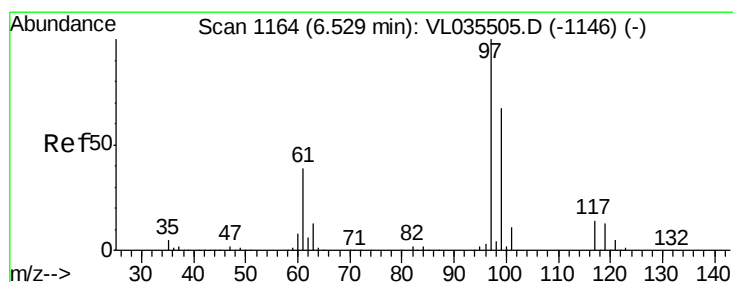
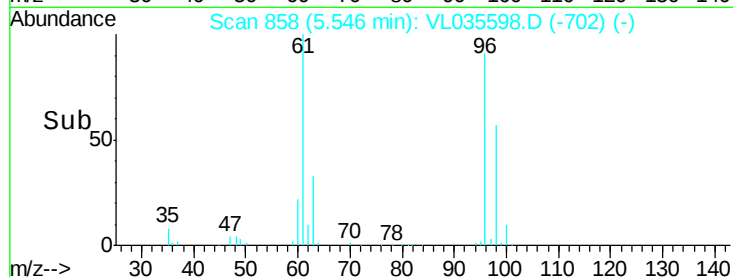
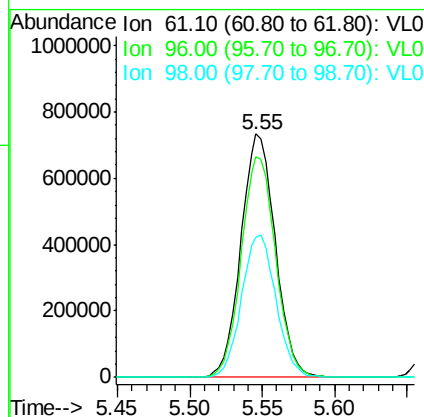
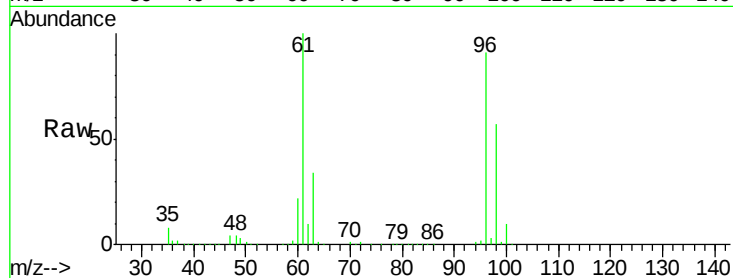
cis-1,2-Dichloroethene
Concen: 10.075 ppbv
RT: 5.55 min Scan# 858
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	90.7	74.4	111.6
98	57.3	49.2	73.8

Manual Integrations
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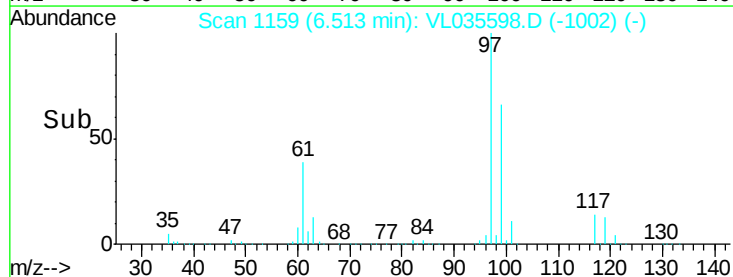
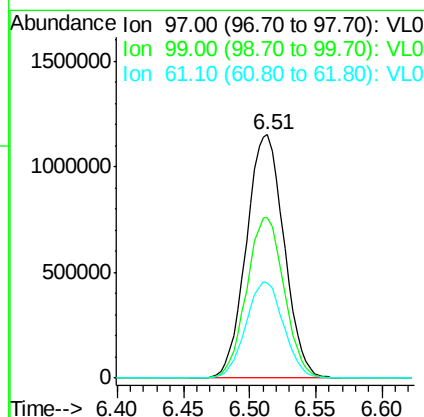
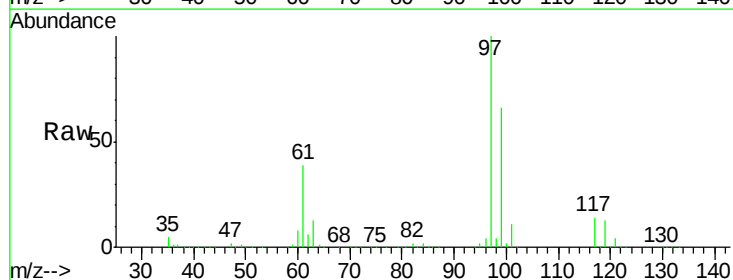
MMDadoda
9/17/2020 5:39:59 PM

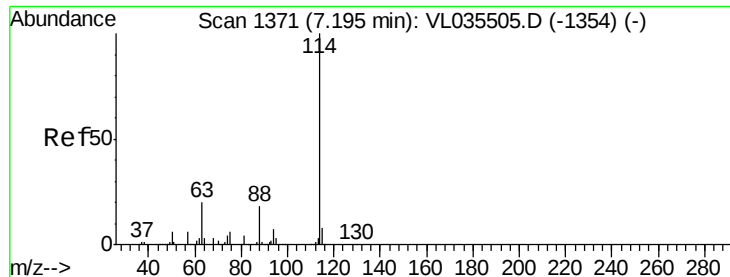


#32

1,1,1-Trichloroethane
Concen: 9.855 ppbv
RT: 6.51 min Scan# 1159
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	53.3	79.9
61	39.6	30.6	46.0





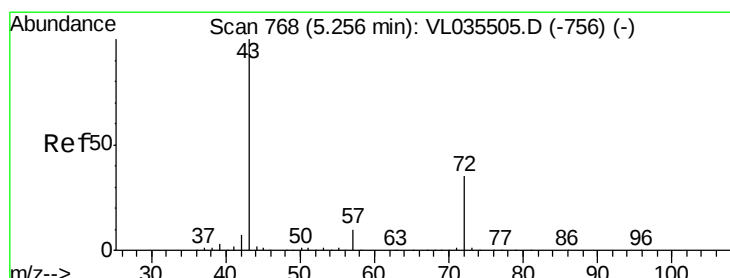
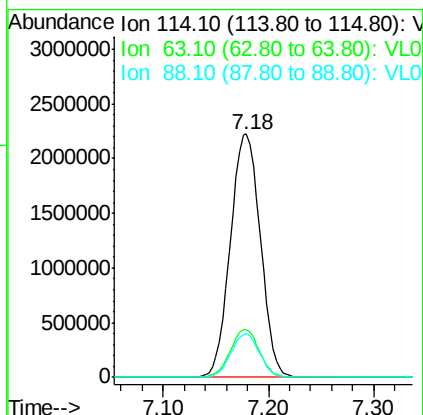
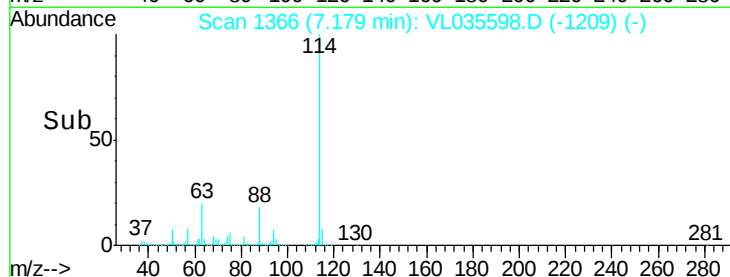
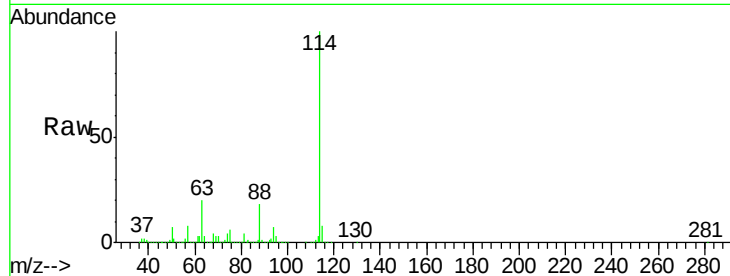
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion:114 Resp: 4380202
 Ion Ratio Lower Upper
 114 100
 63 19.3 14.7 22.1
 88 17.1 13.4 20.2

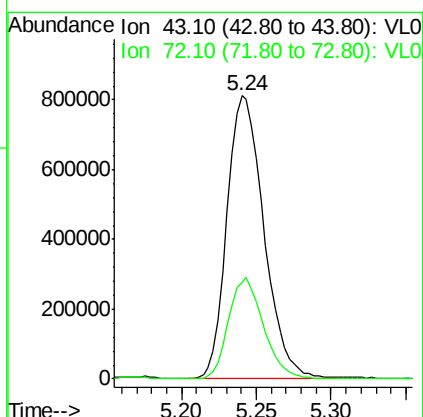
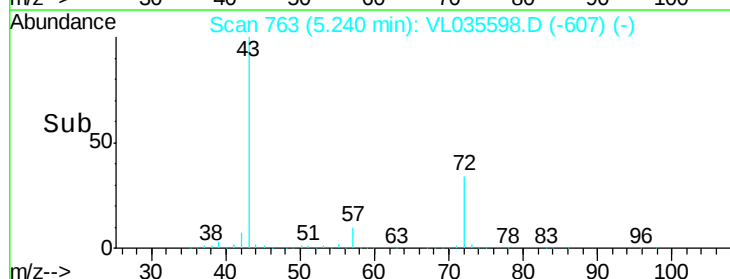
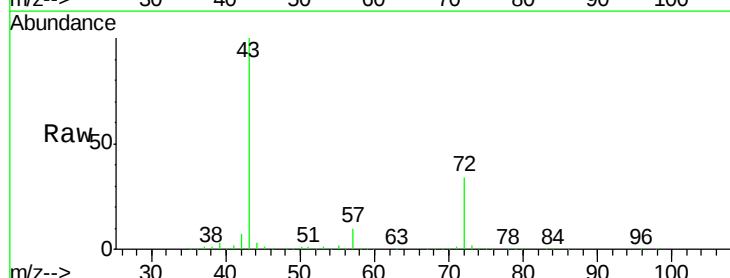
Manual Integrations
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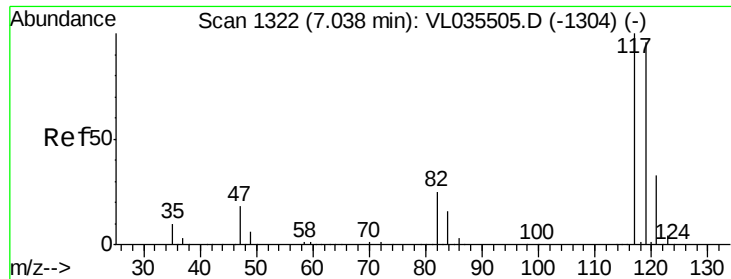
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#34
 2-Butanone
 Concen: 10.700 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Tgt Ion: 43 Resp: 1390934
 Ion Ratio Lower Upper
 43 100
 72 34.1 27.7 41.5





#35

Carbon Tetrachloride

Concen: 10.828 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion:117 Resp: 2383775

Ion Ratio Lower Upper

117 100

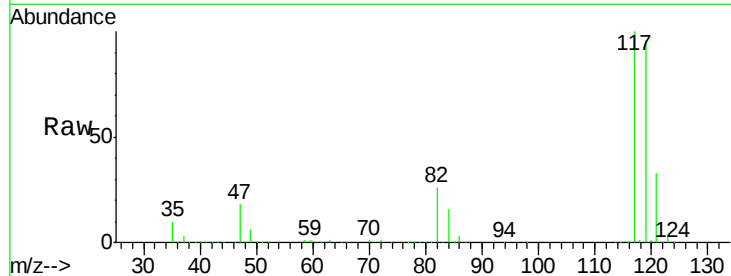
119 95.8 77.2 115.8

121 32.8 26.1 39.1

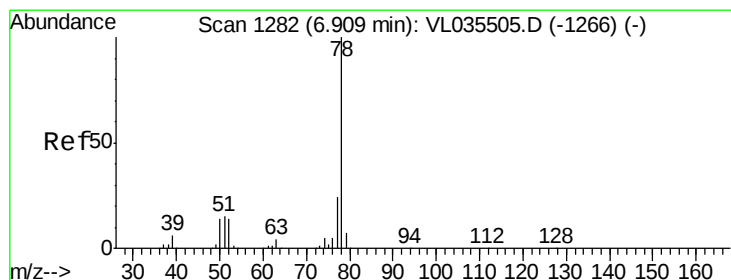
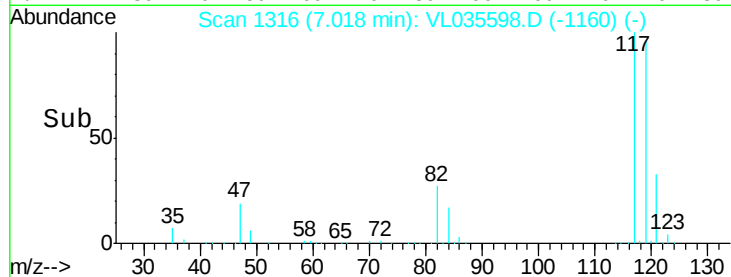
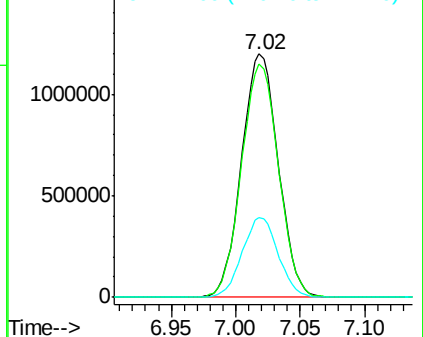
Manual Integrations
APPROVED

MMDadoda

9/17/2020 5:39:59 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.342 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

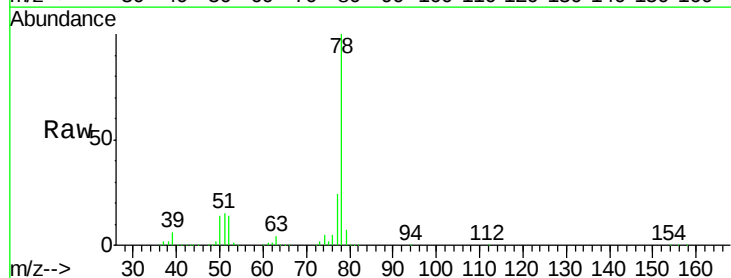
Tgt Ion: 78 Resp: 2932471

Ion Ratio Lower Upper

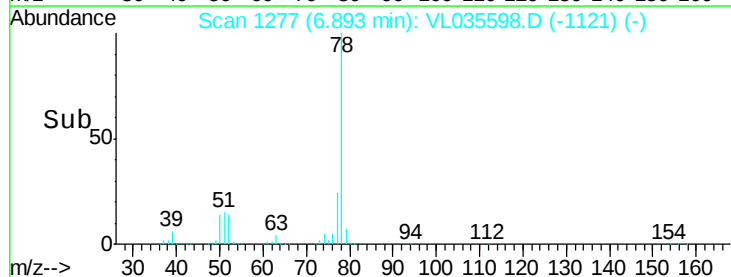
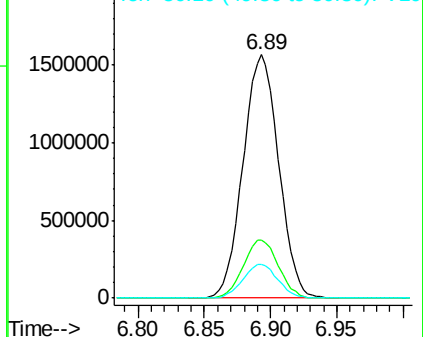
78 100

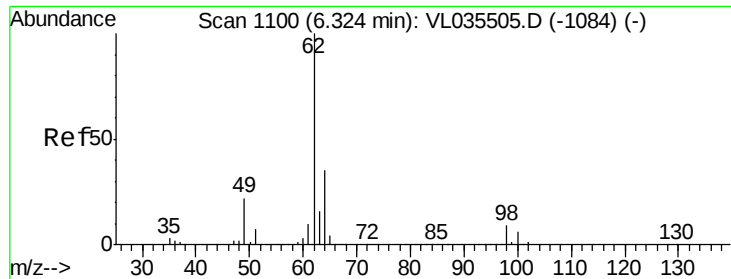
77 24.0 19.3 28.9

50 13.8 11.0 16.6



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





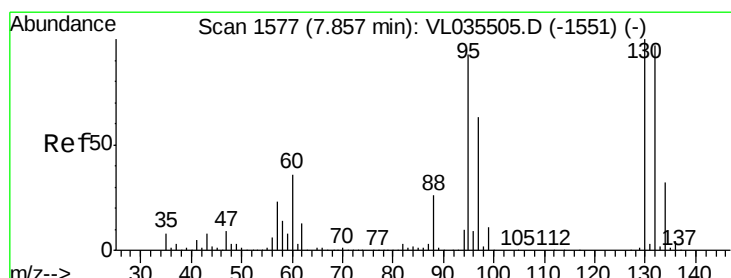
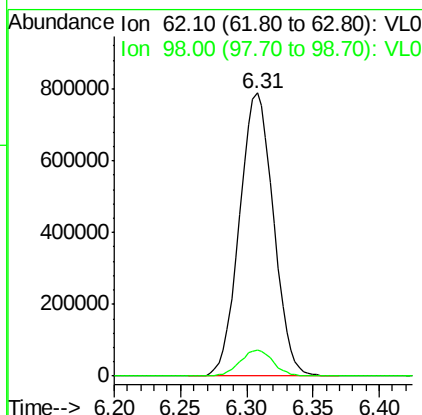
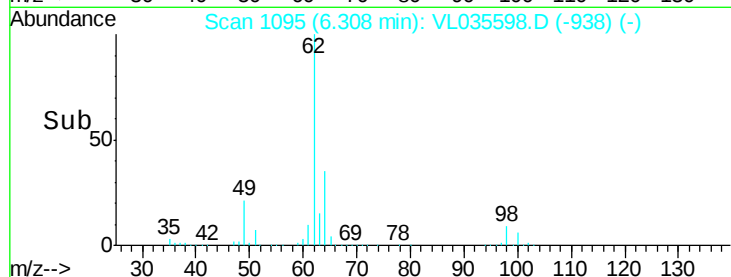
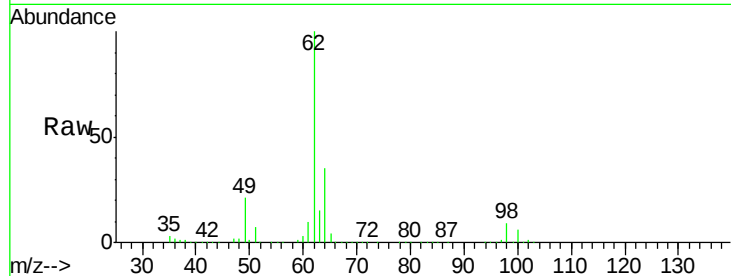
#37
 1,2-Dichloroethane
 Concen: 10.433 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion: 62 Resp: 1410329
 Ion Ratio Lower Upper
 62 100
 98 9.0 7.4 11.0

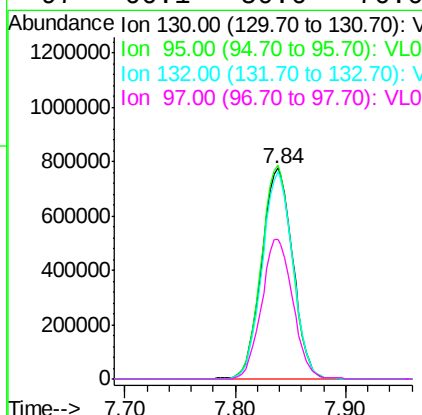
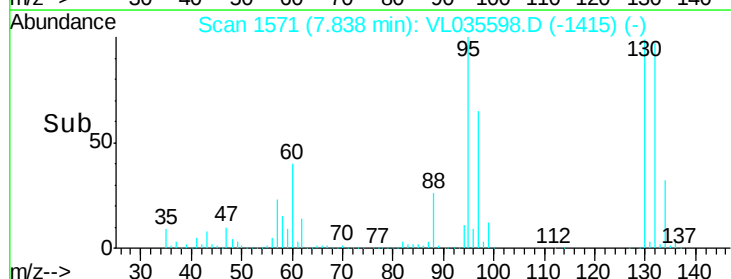
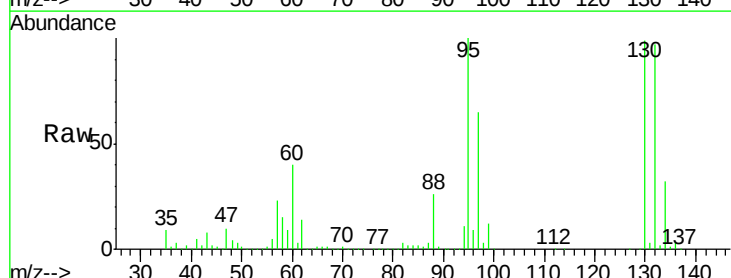
Manual Integrations
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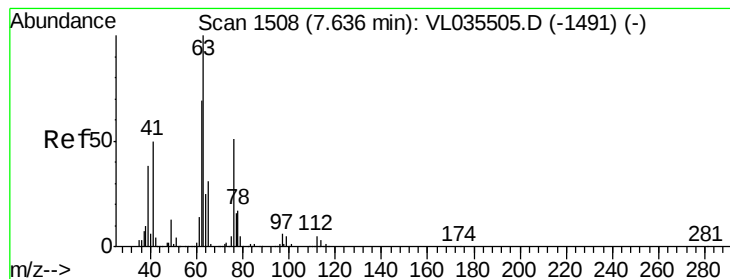
MMDadoda
 9/17/2020 5:39:59 PM



#38
 Trichloroethene
 Concen: 9.236 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Tgt Ion:130 Resp: 1521193
 Ion Ratio Lower Upper
 130 100
 95 101.4 74.6 112.0
 132 98.2 77.6 116.4
 97 66.1 50.6 76.0





#39

1,2-Dichloropropane

Concen: 10.325 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

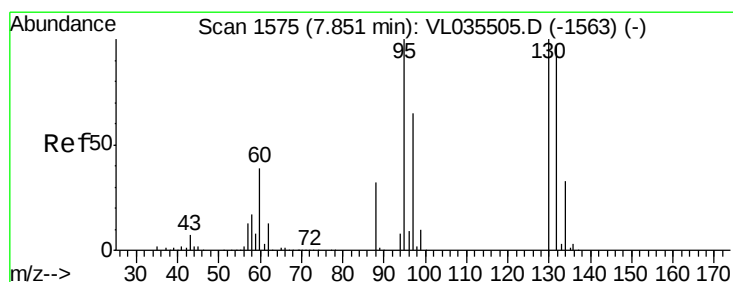
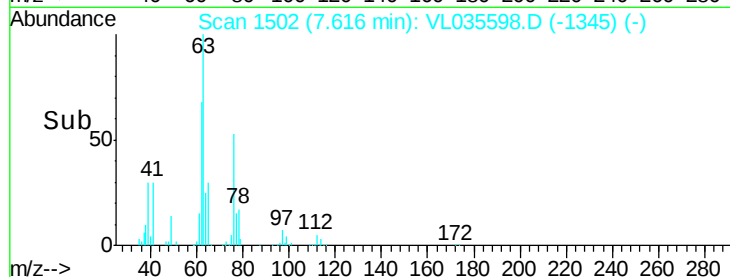
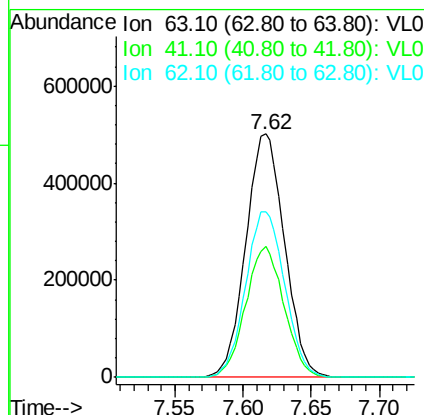
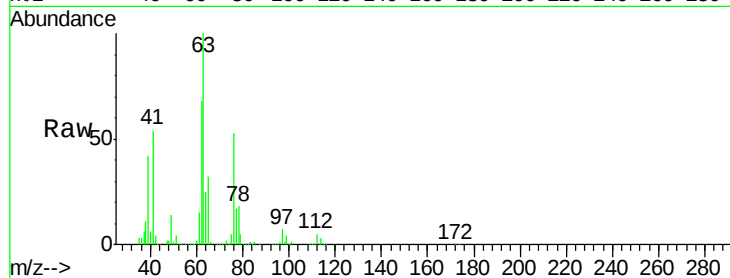
ClientSampleId :

VL0914ABS01

Tot Ion:	63	Resp:	988974
Ion Ratio	Lower	Upper	
63	100		
41	53.8	40.0	60.0
62	68.1	55.4	83.0

Manual Integrations
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9/17/2020 5:39:59 PM



#40

1,4-Dioxane

Concen: 10.707 ppbv

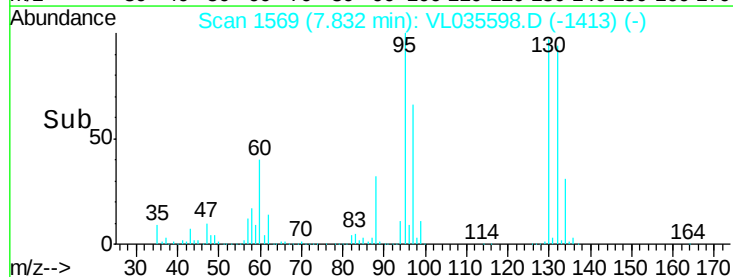
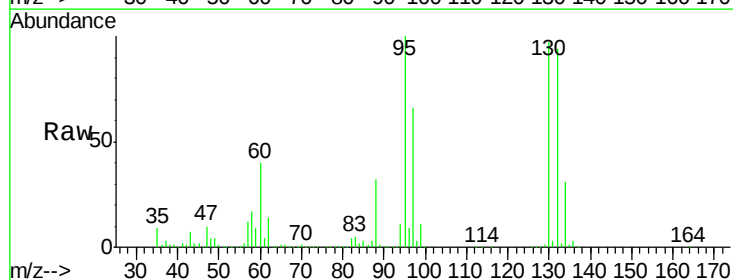
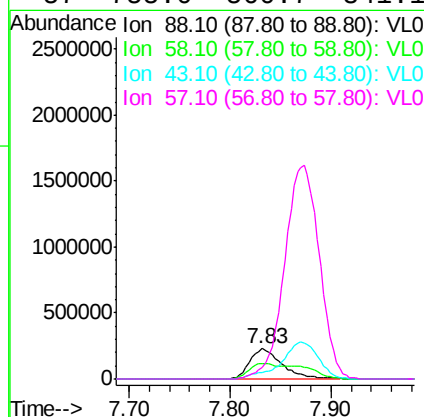
RT: 7.83 min Scan# 1569

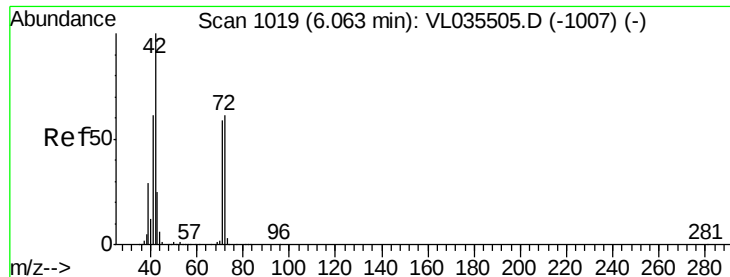
Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion:	88	Resp:	512312
Ion Ratio	Lower	Upper	
88	100		
58	89.7	68.7	103.1
43	140.1	104.3	156.5
57	755.0	560.7	841.1





#41

Tetrahydrofuran

Concen: 11.095 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

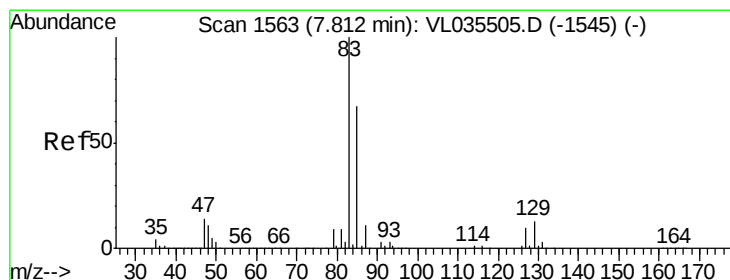
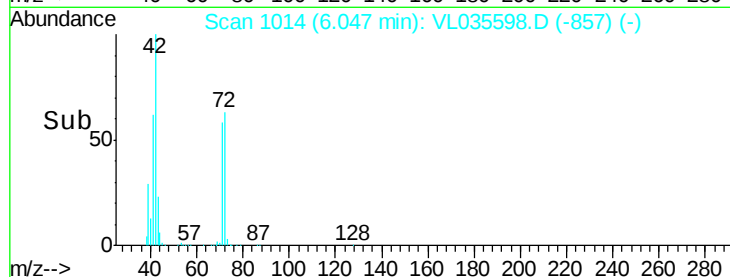
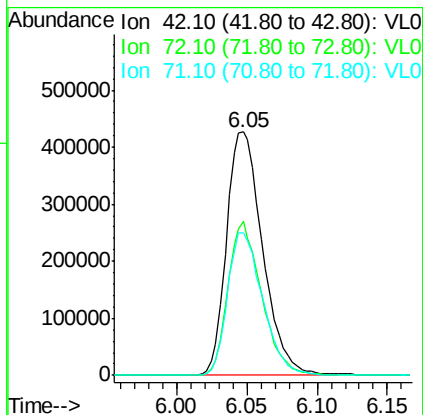
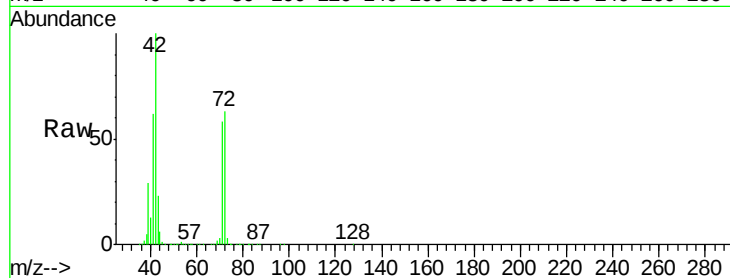
ClientSampleId :

VL0914ABS01

Tot Ion:	42	Resp:	764775
Ion Ratio	Lower	Upper	
42	100		
72	59.2	48.6	73.0
71	57.4	46.1	69.1

Manual Integrations
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#42

Bromodichloromethane

Concen: 11.067 ppbv

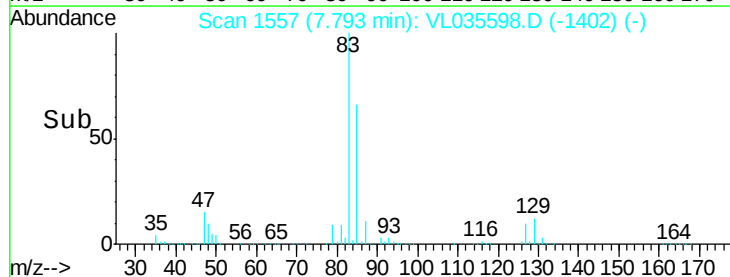
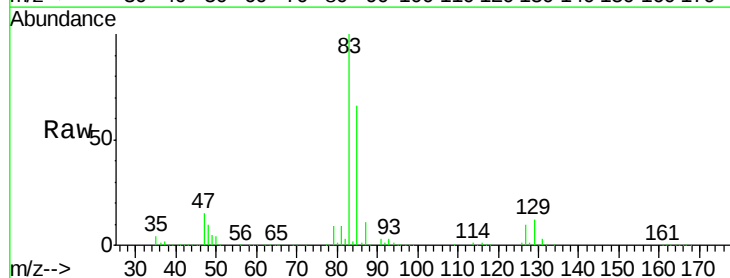
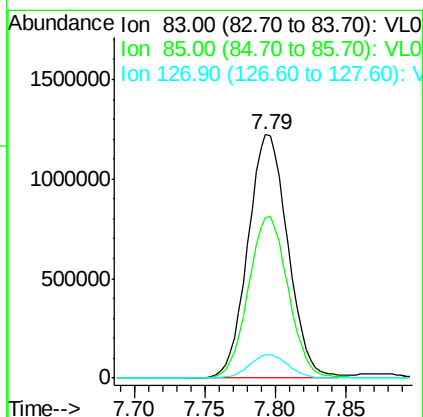
RT: 7.79 min Scan# 1557

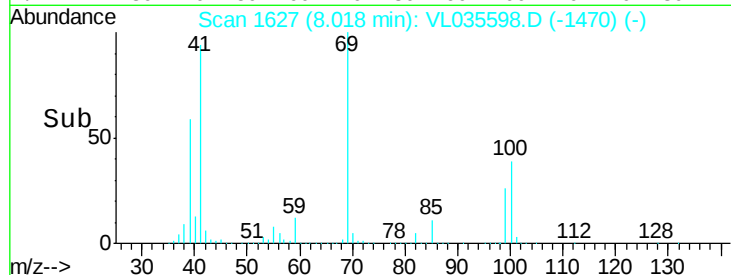
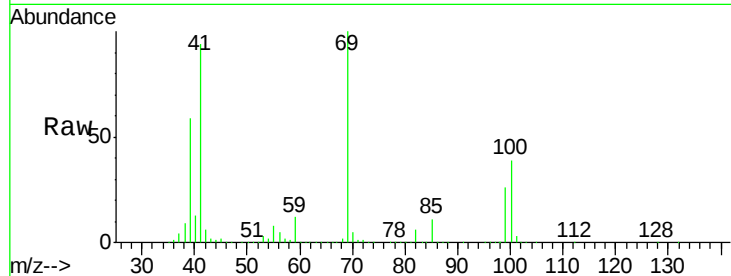
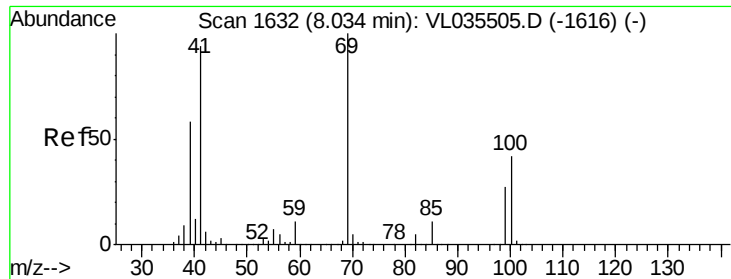
Delta R.T. -0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion:	83	Resp:	2419334
Ion Ratio	Lower	Upper	
83	100		
85	65.8	53.7	80.5
127	9.6	8.1	12.1





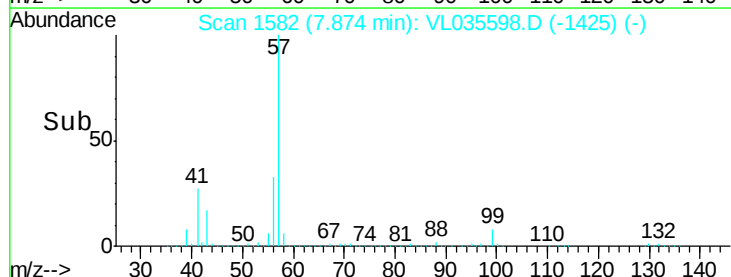
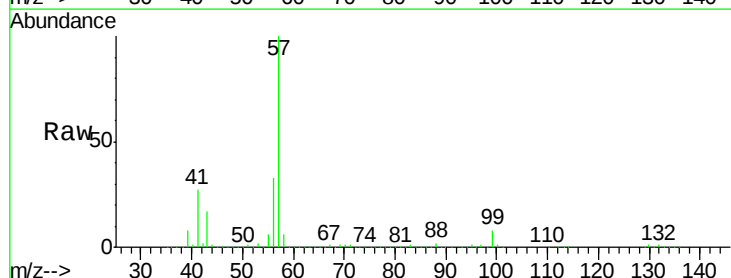
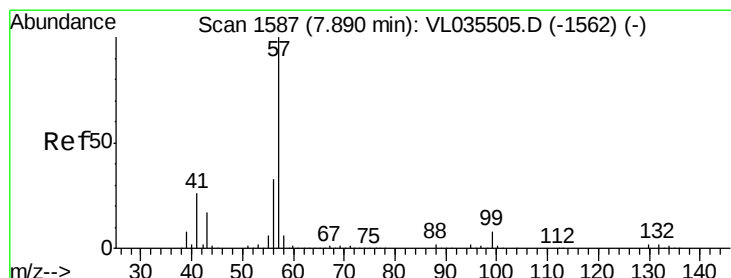
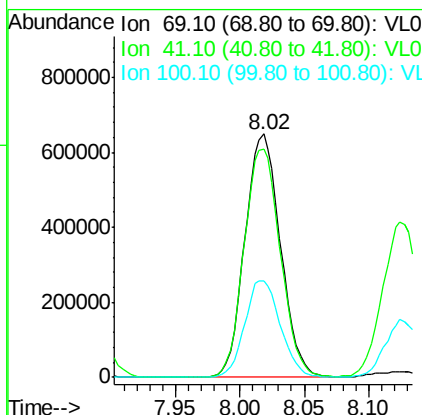
#43
Methvl Methacrvlate
Concen: 11.360 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tot Ion: 69 Resp: 1245477
Ion Ratio Lower Upper
69 100
41 96.1 76.6 114.8
100 39.9 33.8 50.6

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

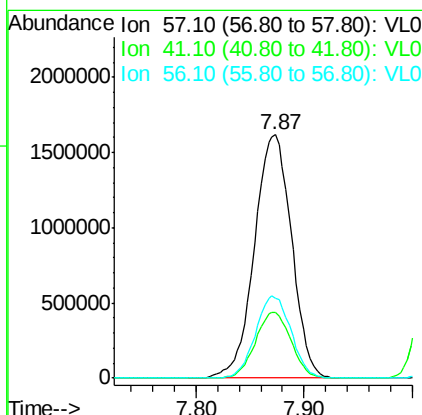
Manual Integrations
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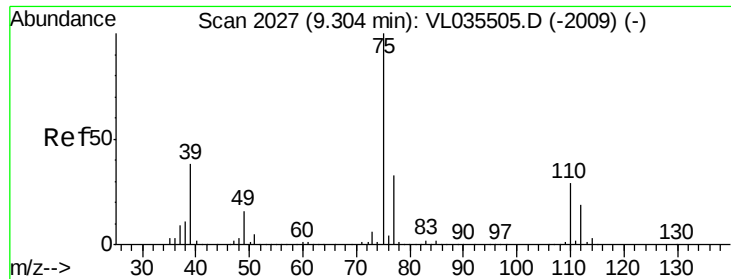
MMDadoda
9/17/2020 5:39:59 PM



#44
2,2,4-Trimethylpentane
Concen: 10.360 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion: 57 Resp: 3864917
Ion Ratio Lower Upper
57 100
41 26.0 20.5 30.7
56 32.1 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 12.447 ppbv

RT: 9.29 min Scan# 2021

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 75 Resp: 1382464

Ion Ratio Lower Upper

75 100

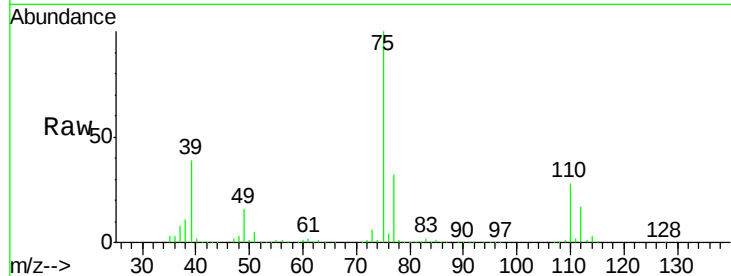
77 32.3 26.5 39.7

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.29

800000

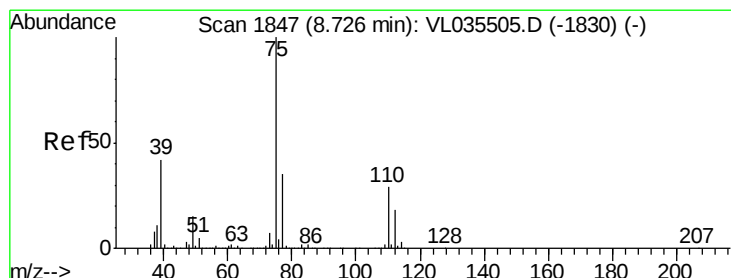
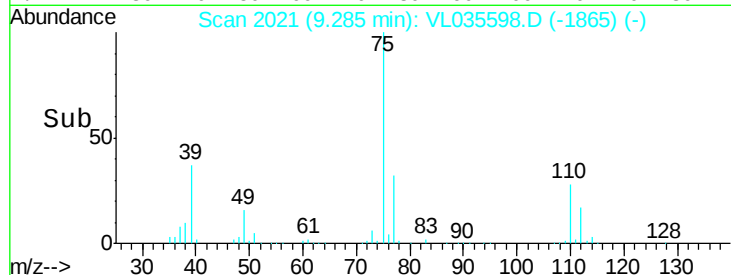
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.927 ppbv

RT: 8.71 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

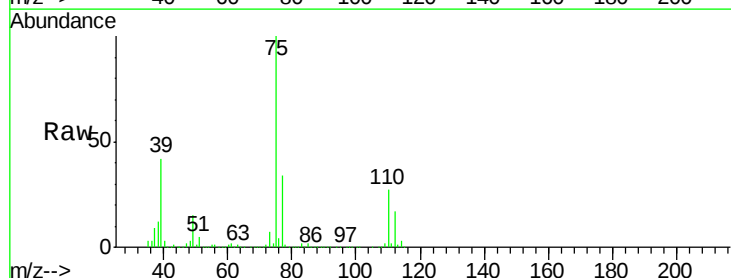
Tgt Ion: 75 Resp: 1644755

Ion Ratio Lower Upper

75 100

39 41.7 33.7 50.5

77 34.0 27.8 41.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

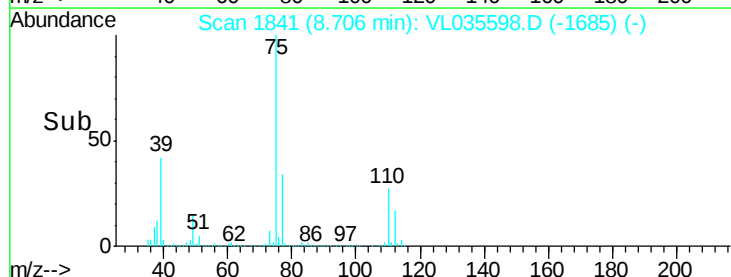
600000

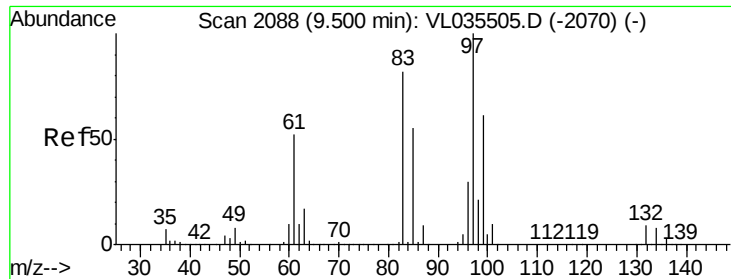
400000

200000

0

Time-->





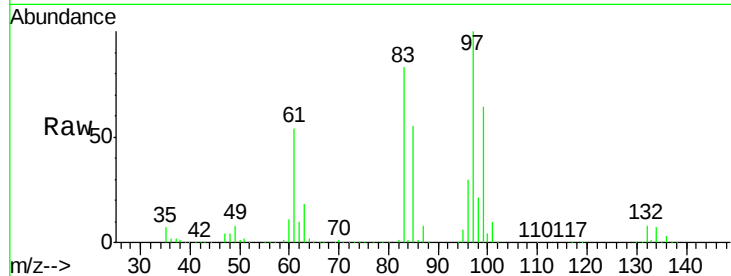
#47
 1,1,2-Trichloroethane
 Concen: 10.248 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	83.3	65.4	98.2	
85	55.2	43.7	65.5	
99	64.2	49.1	73.7	

Manual Integrations
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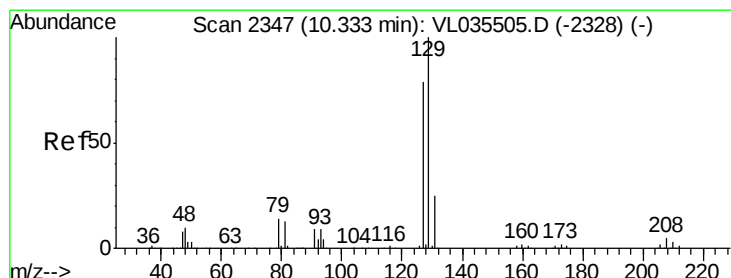
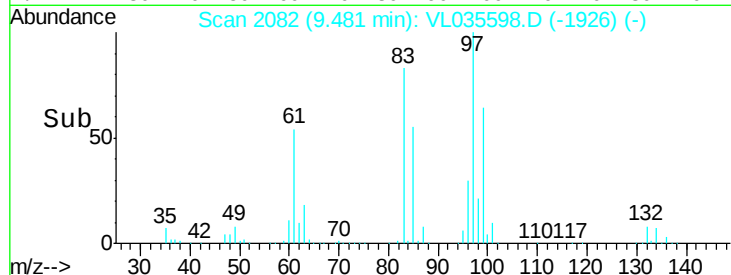
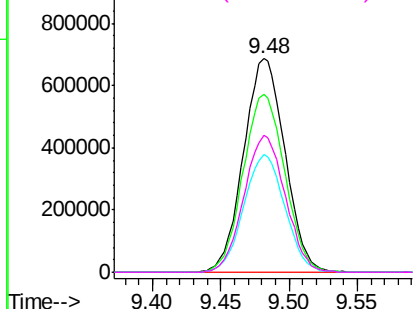
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

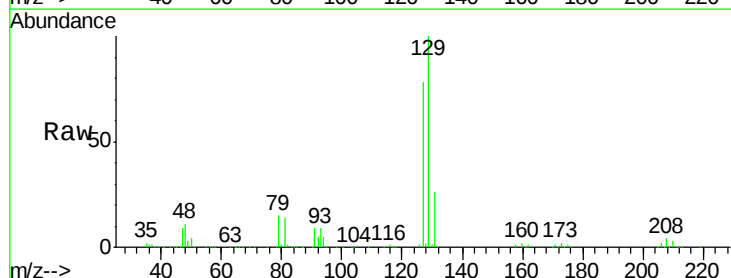
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 11.152 ppbv
 RT: 10.31 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

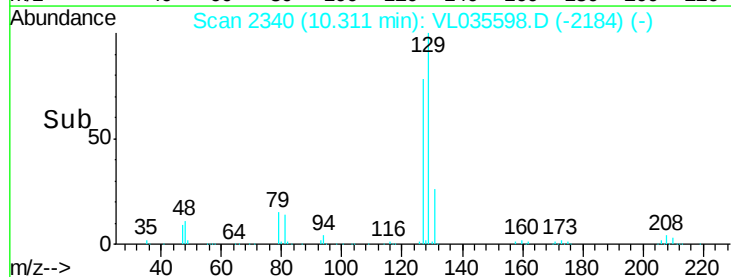
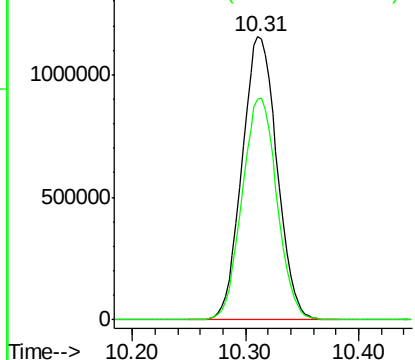
Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.3	117.8	

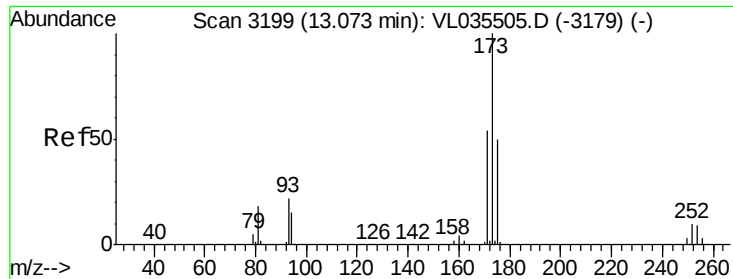


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





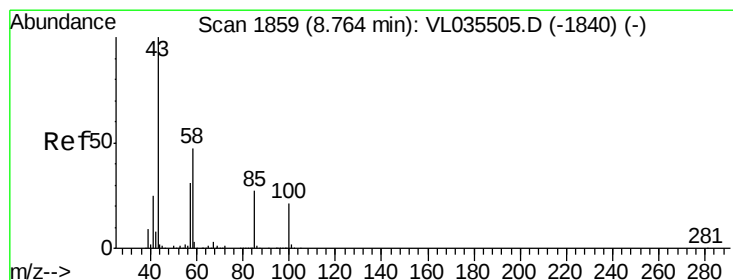
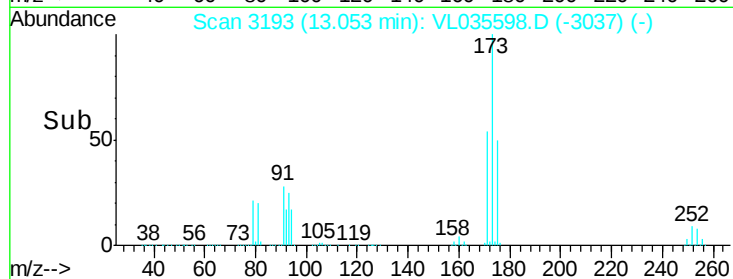
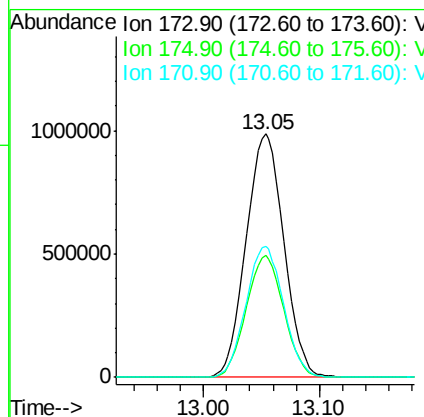
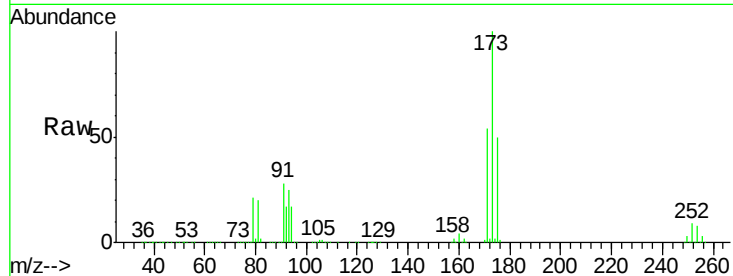
#49
Bromoform
Concen: 11.121 ppbv
RT: 13.05 min Scan# 3193
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampled :
VL0914ABS01

Tot Ion:173 Resp: 2241950
Ion Ratio Lower Upper
173 100
175 49.9 39.8 59.8
171 53.7 42.4 63.6

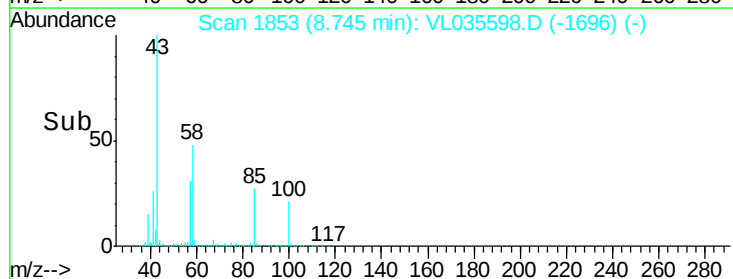
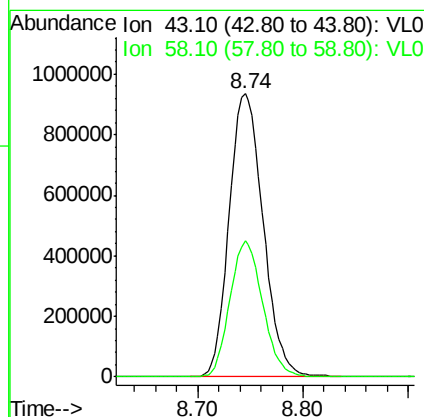
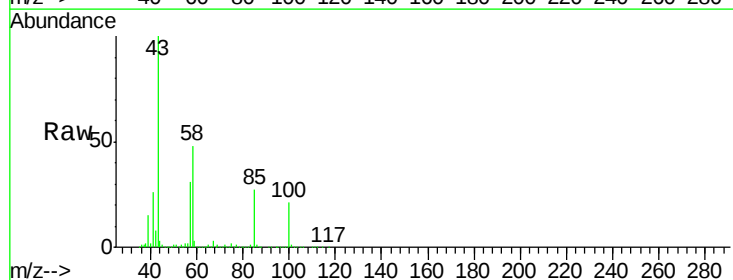
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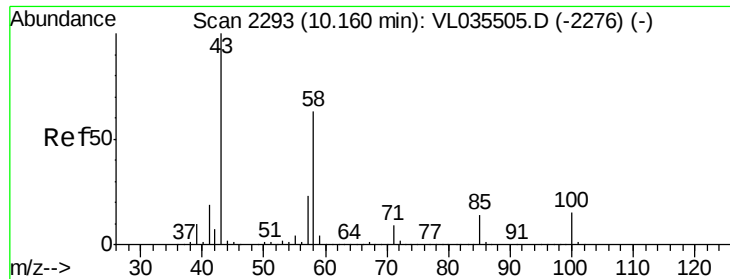
MMDadoda
9/17/2020 5:39:59 PM



#50
4-Methyl-2-Pentanone
Concen: 11.115 ppbv
RT: 8.74 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion: 43 Resp: 2092262
Ion Ratio Lower Upper
43 100
58 46.4 37.4 56.0





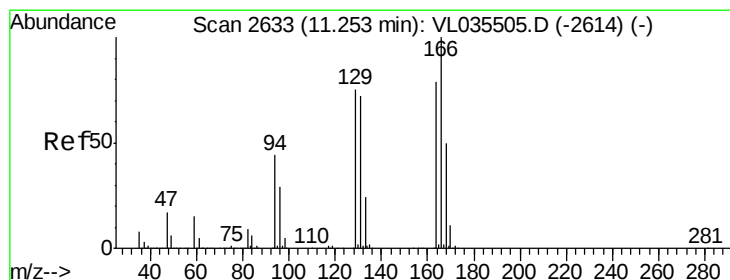
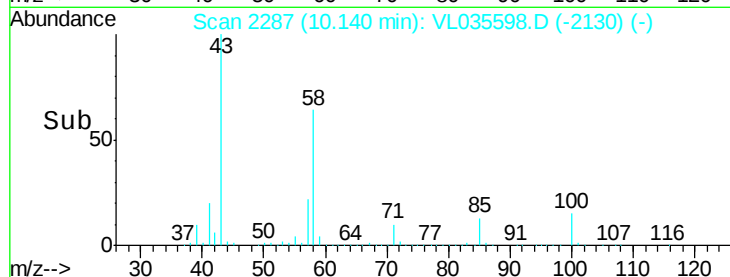
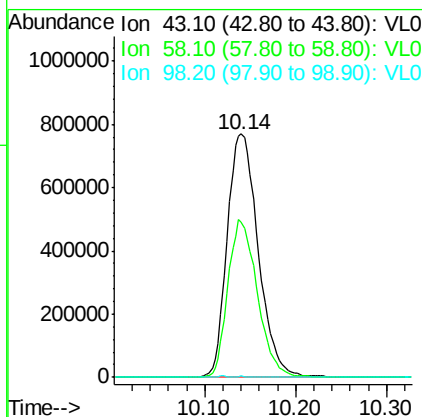
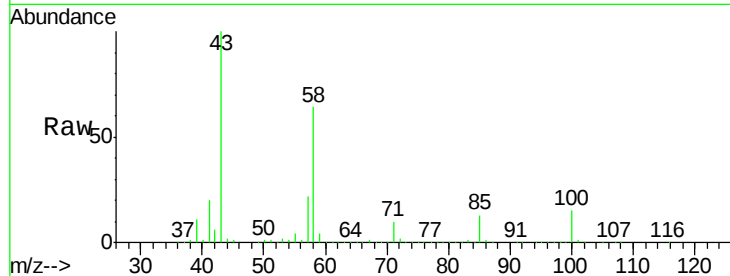
#51
2-Hexanone
Concen: 11.803 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

Tot Ion: 43 Resp: 1822528
Ion Ratio Lower Upper
43 100
58 61.8 50.2 75.4
98 0.7 0.4 0.6#

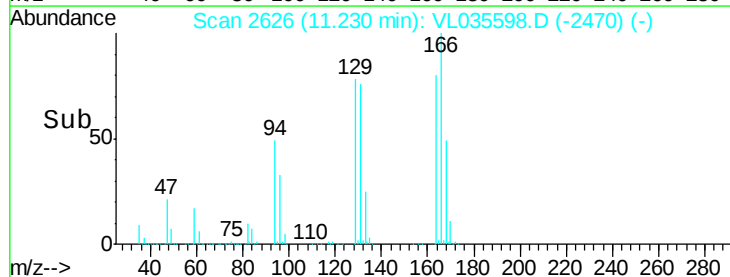
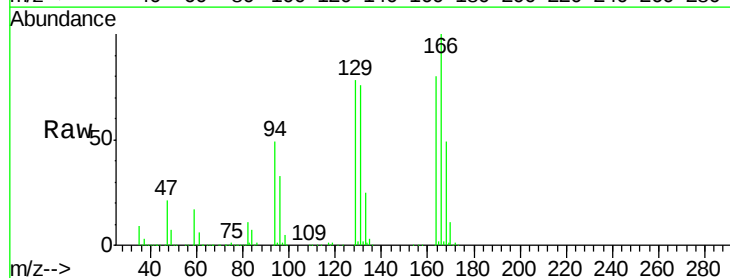
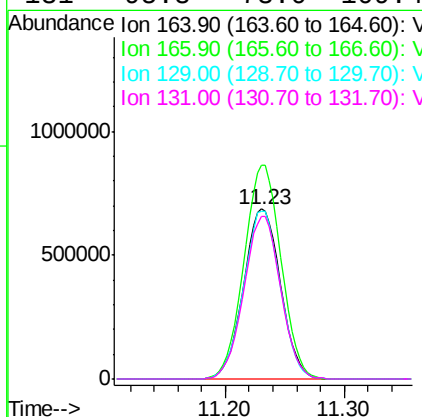
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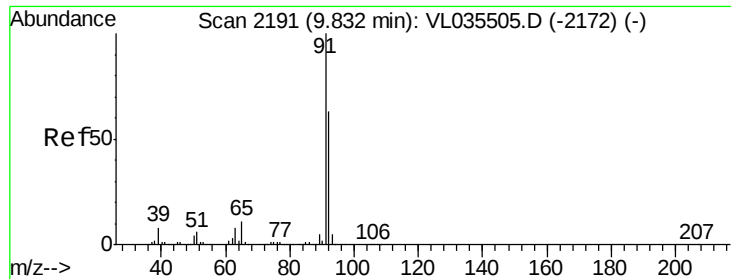
MMDadoda
9/17/2020 5:39:59 PM



#52
Tetrachloroethene
Concen: 8.913 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion: 164 Resp: 1476291
Ion Ratio Lower Upper
164 100
166 125.7 100.9 151.3
129 98.4 75.3 112.9
131 95.8 73.0 109.4





#53

Toluene

Concen: 10.483 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 91 Resp: 3737829

Ion Ratio Lower Upper

91 100

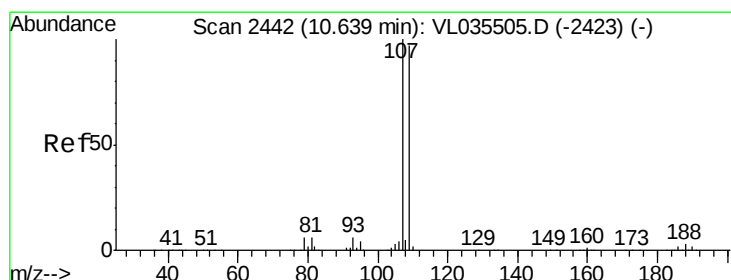
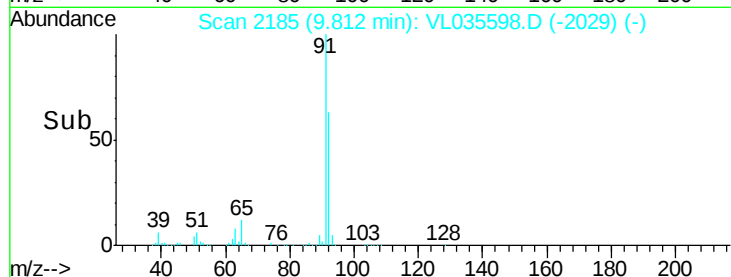
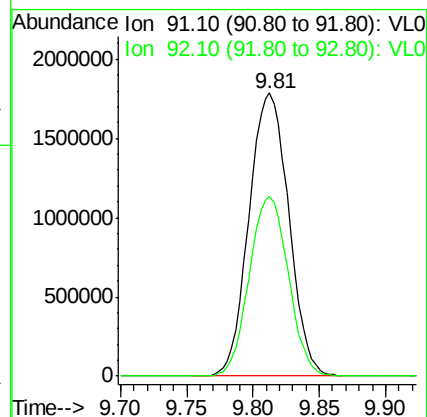
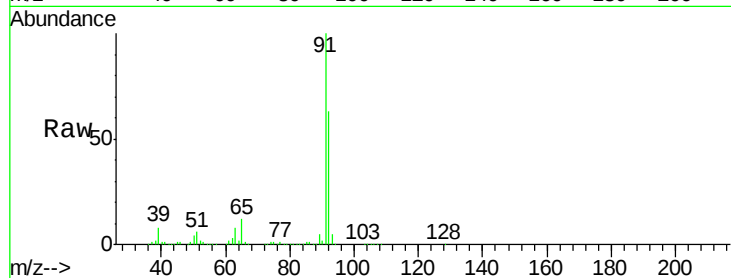
92 62.3 49.8 74.8

Manual Integrations

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9/17/2020 5:39:59 PM



#54

1,2-Dibromoethane

Concen: 10.285 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL035598.D

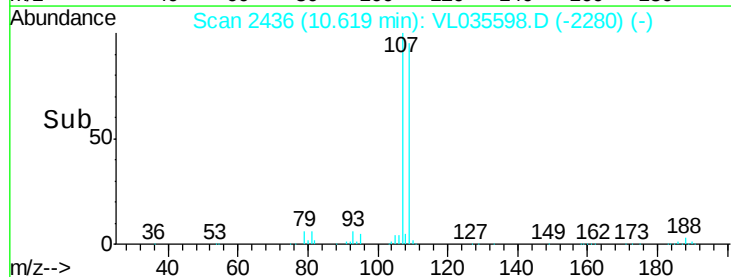
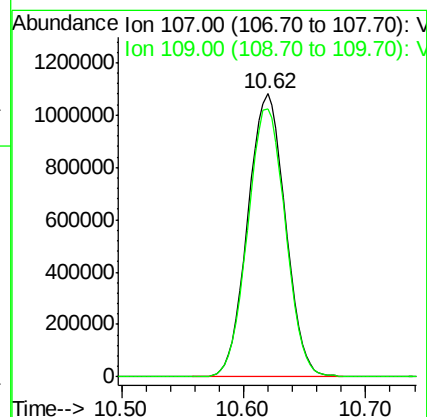
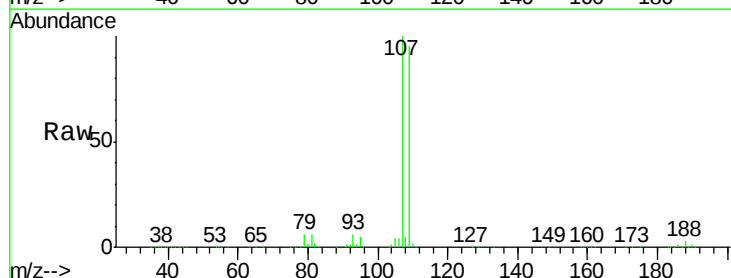
Acq: 14 Sep 2020 14:05

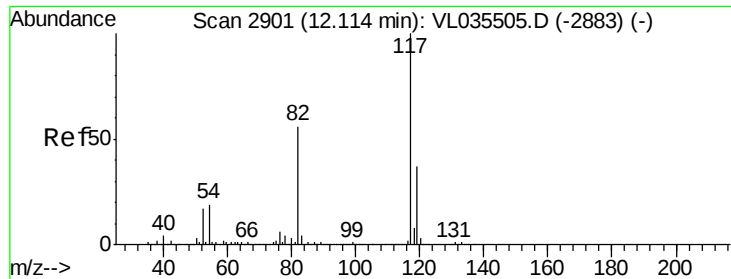
Tgt Ion: 107 Resp: 2296957

Ion Ratio Lower Upper

107 100

109 94.7 77.8 116.8





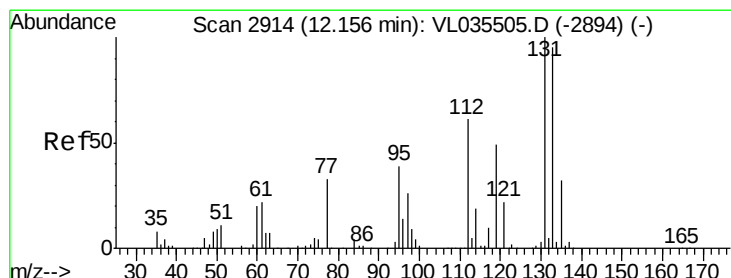
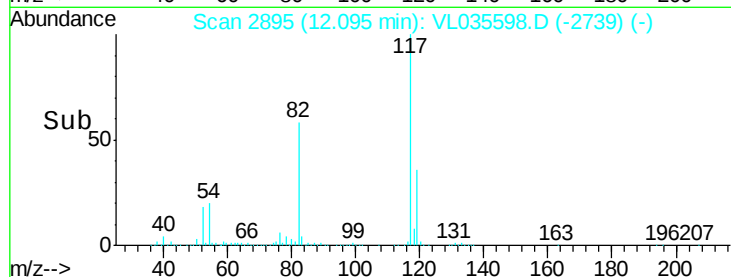
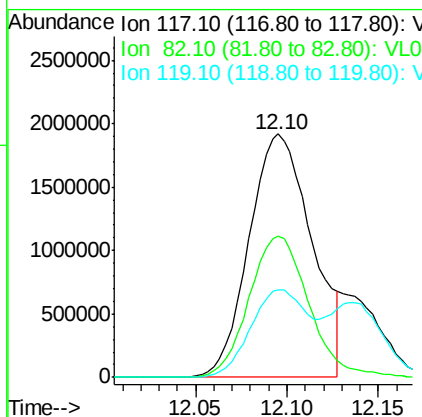
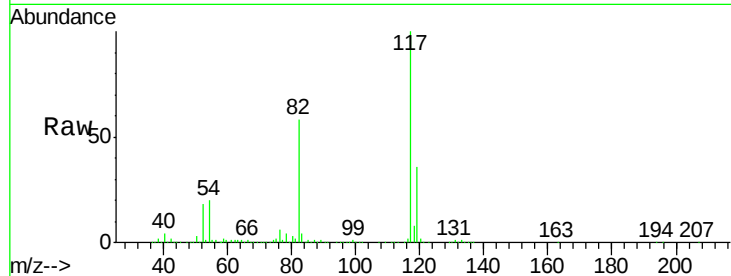
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

Tot Ion:117 Resp: 4590452
Ion Ratio Lower Upper
117 100
82 55.2 41.6 62.4
119 35.7 29.3 43.9

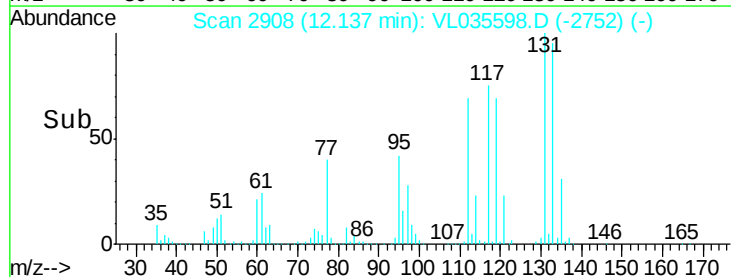
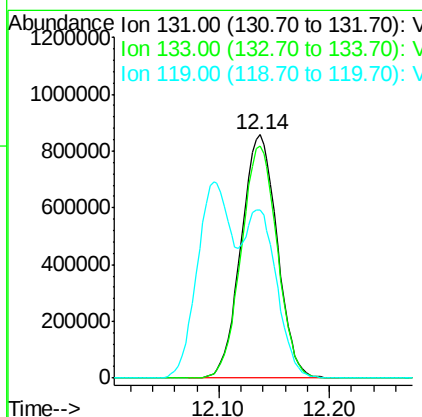
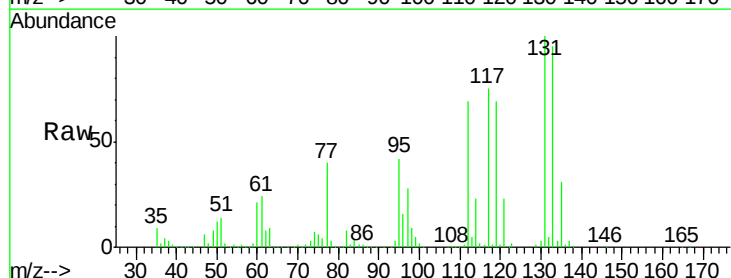
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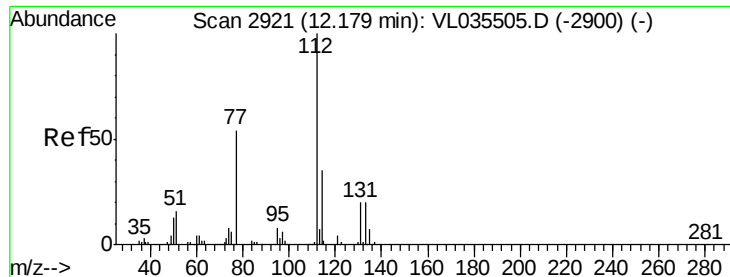
MMDadoda
9/17/2020 5:39:59 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.376 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion:131 Resp: 1938124
Ion Ratio Lower Upper
131 100
133 95.5 76.6 115.0
119 63.2 51.6 77.4





#57

Chlorobenzene

Concen: 9.534 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

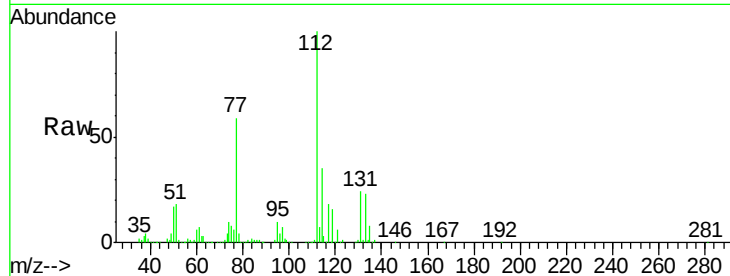
ClientSampleId :

VL0914ABS01

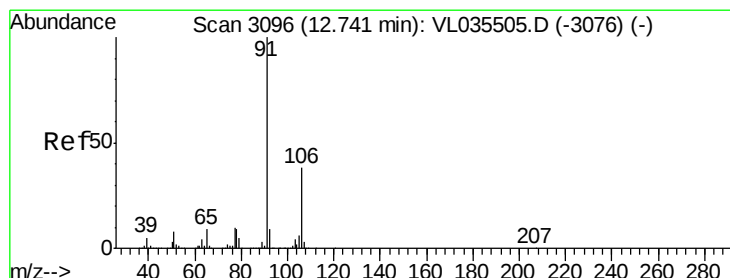
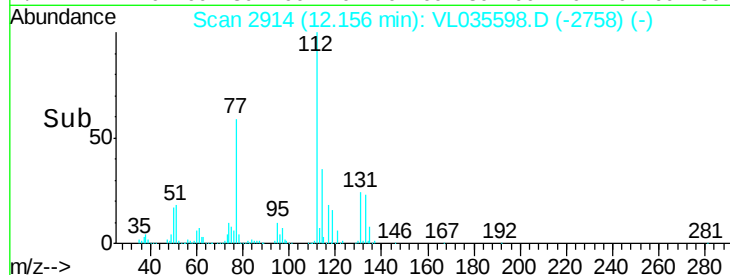
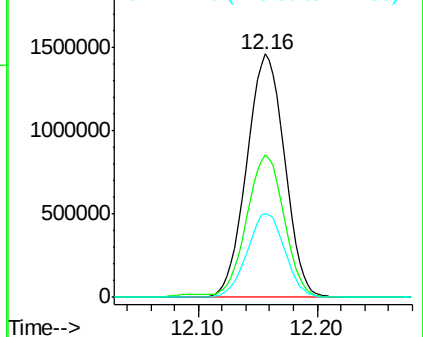
Tot Ion:	112	Resp:	3221141
Ion	Ratio	Lower	Upper
112	100		
77	58.4	44.2	66.4
114	34.5	31.6	38.6

Manual Integrations
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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: 10.426 ppbv

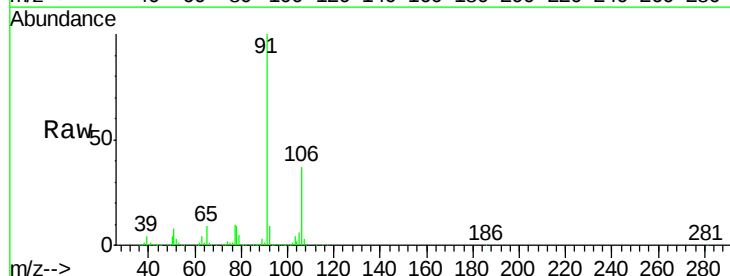
RT: 12.72 min Scan# 3090

Delta R.T. 0.00 min

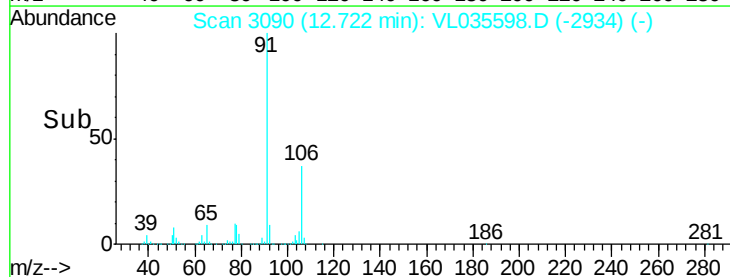
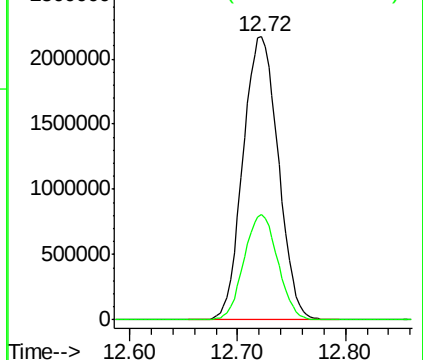
Lab File: VL035598.D

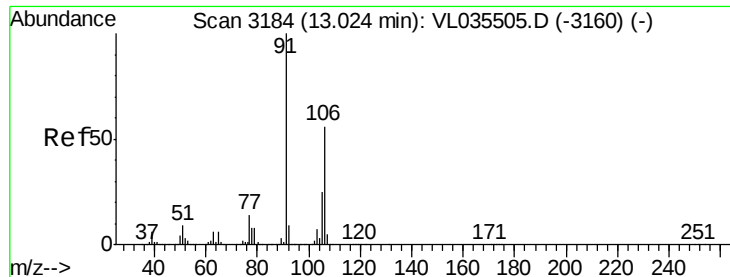
Acq: 14 Sep 2020 14:05

Tgt Ion:	91	Resp:	4935351
Ion	Ratio	Lower	Upper
91	100		
106	37.2	30.3	45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





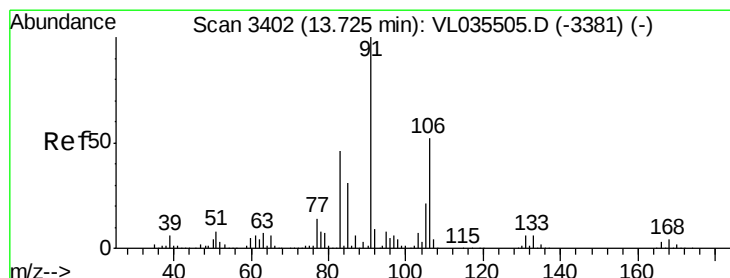
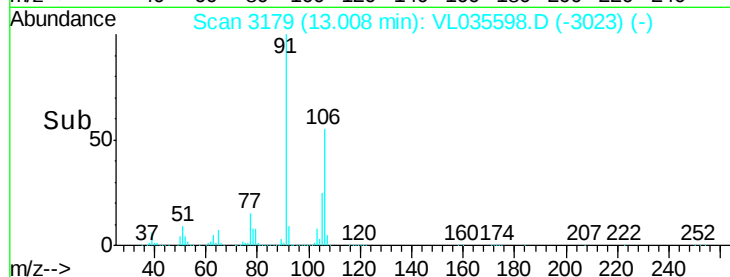
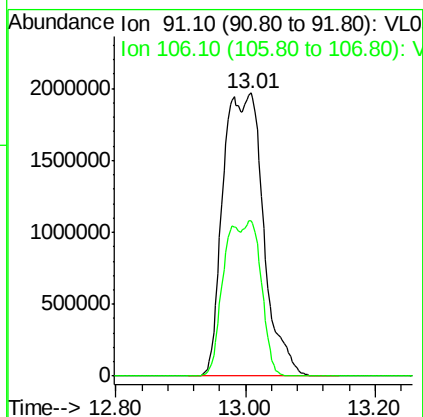
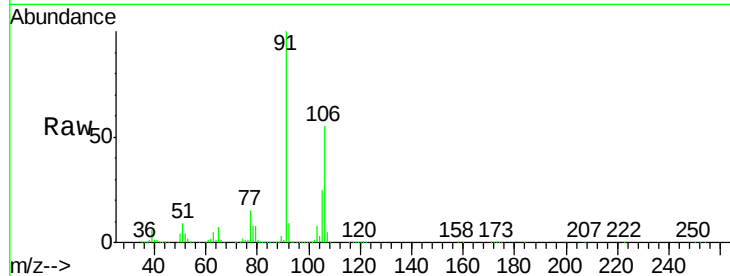
#59
m/p-Xylene
Concen: 21.438 ppbv m
RT: 13.01 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Instrument :
MSVOA_L
ClientSampleId :
VL0914ABS01

Tot Ion: 91 Resp: 8479756
Ion Ratio Lower Upper
91 100
106 50.4 43.4 65.2

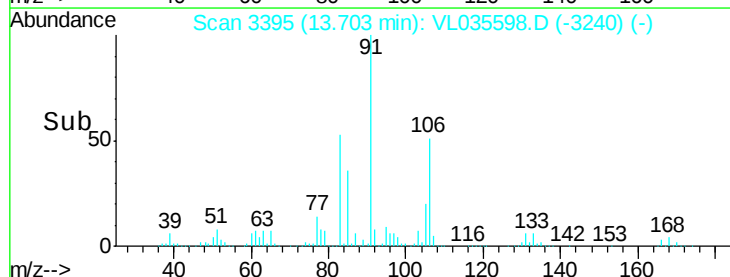
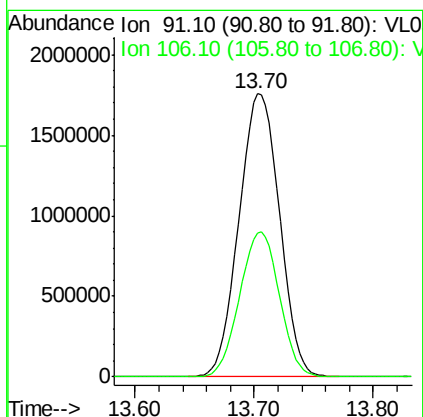
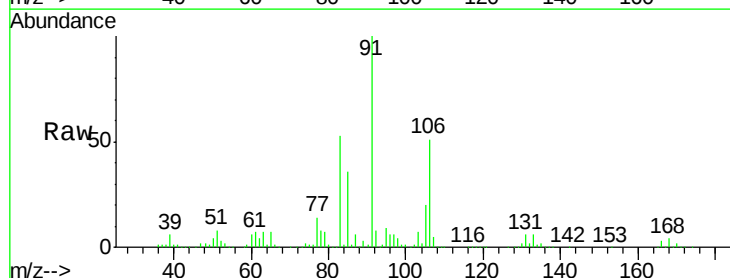
Manual Integrations
APPROVED

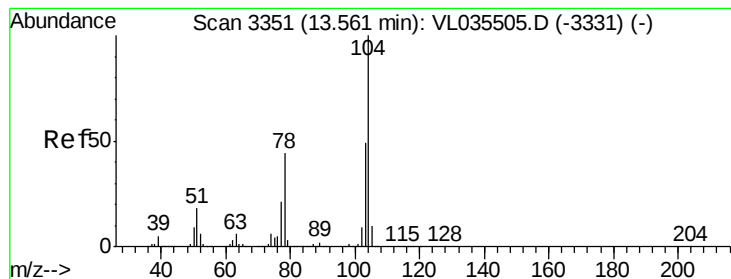
MMDadoda
9/17/2020 5:39:59 PM



#60
o-Xylene
Concen: 10.416 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL035598.D
Acq: 14 Sep 2020 14:05

Tgt Ion: 91 Resp: 4149503
Ion Ratio Lower Upper
91 100
106 50.3 25.8 77.4





#61

Stvrene

Concen: 10.831 ppbv

RT: 13.54 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion:104 Resp: 3299977

Ion Ratio Lower Upper

104 100

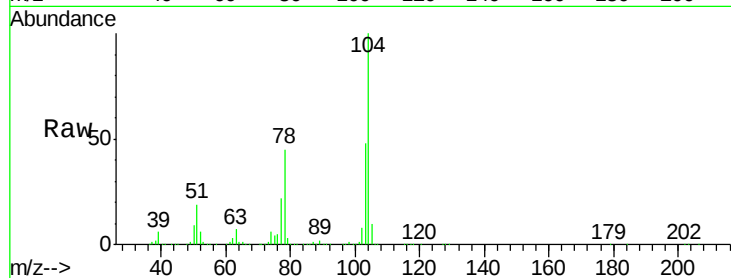
78 45.4 34.8 52.2

103 47.8 38.2 57.4

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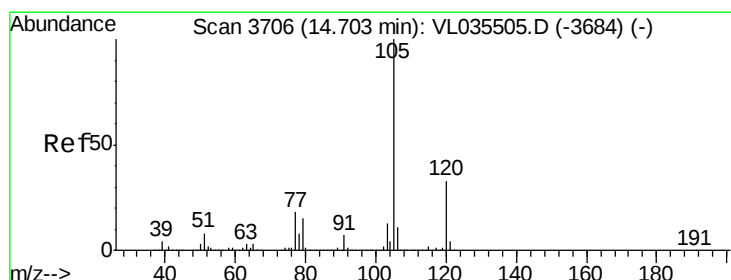
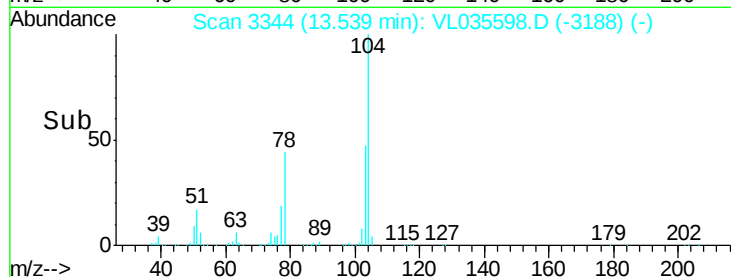
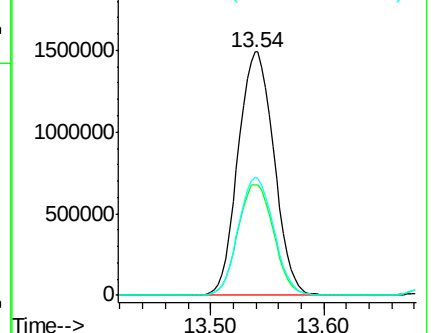
9/17/2020 5:39:59 PM



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: 9.792 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. 0.00 min

Lab File: VL035598.D

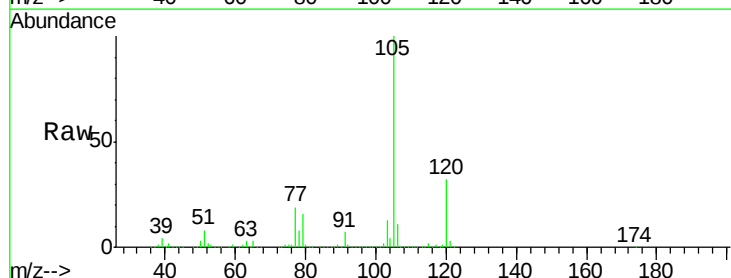
Acq: 14 Sep 2020 14:05

Tgt Ion:105 Resp: 6266498

Ion Ratio Lower Upper

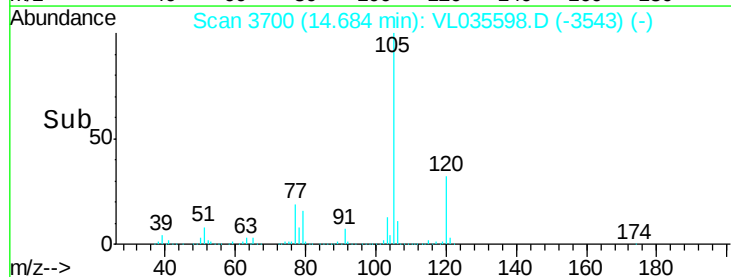
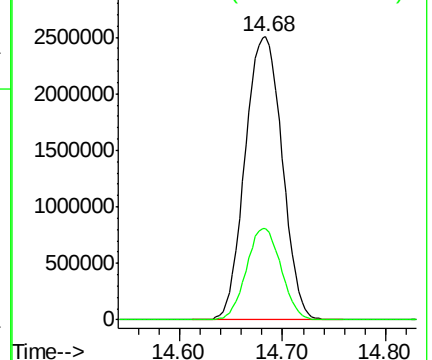
105 100

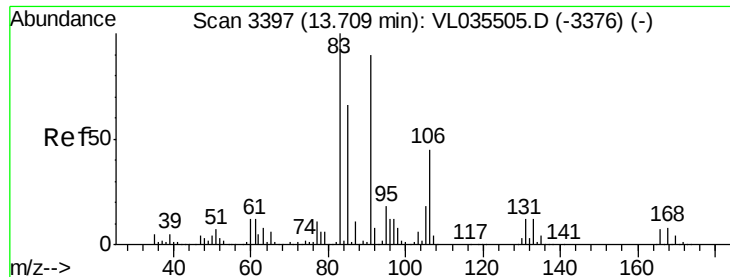
120 30.3 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





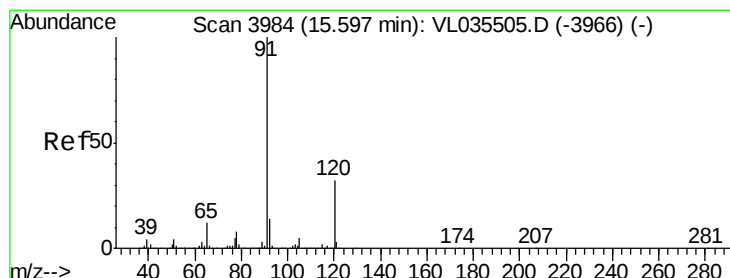
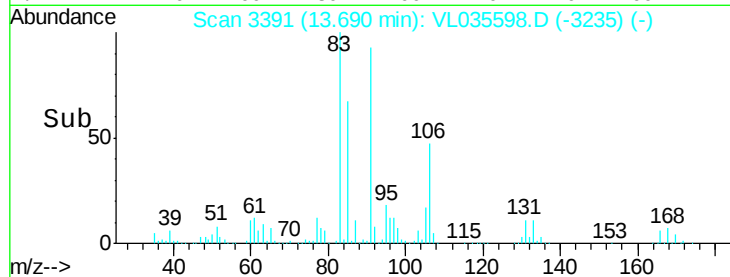
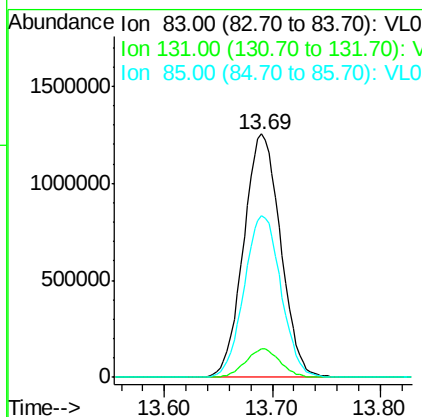
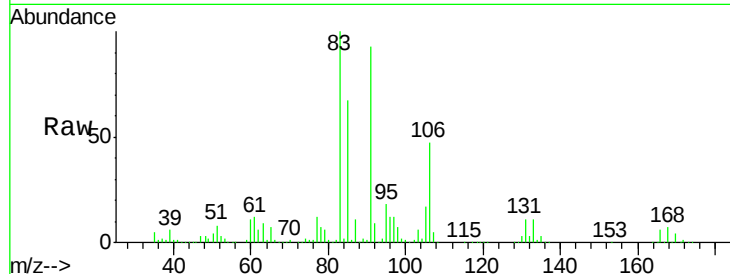
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.662 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion: 83 Resp: 2984227
 Ion Ratio Lower Upper
 83 100
 131 11.1 6.0 18.0
 85 66.7 33.4 100.2

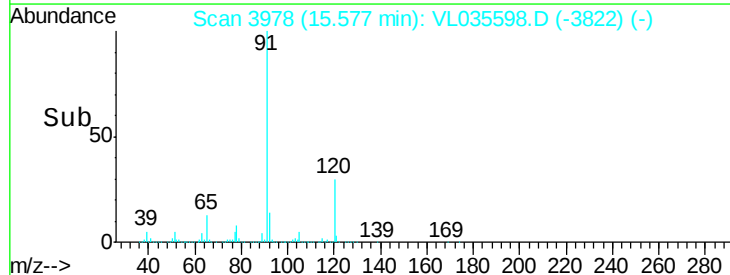
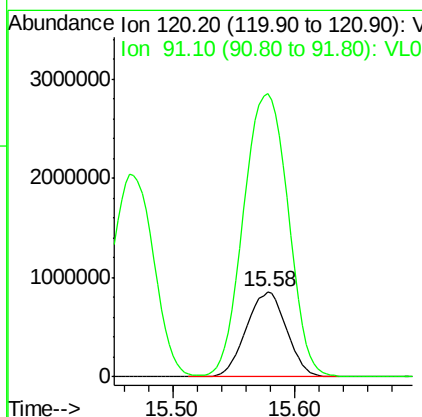
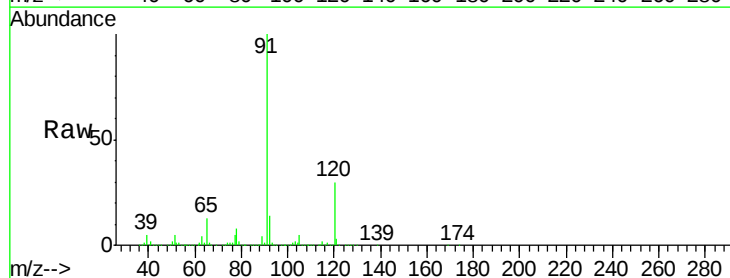
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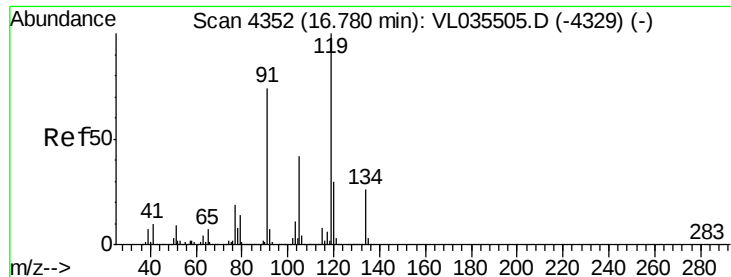
MMDadoda
 9/17/2020 5:39:59 PM



#64
 n-propylbenzene
 Concen: 10.067 ppbv
 RT: 15.58 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Tgt Ion:120 Resp: 1966043
 Ion Ratio Lower Upper
 120 100
 91 369.6 279.4 419.0





#65

tert-Butylbenzene

Concen: 9.857 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion:119 Resp: 5864018

Ion Ratio Lower Upper

119 100

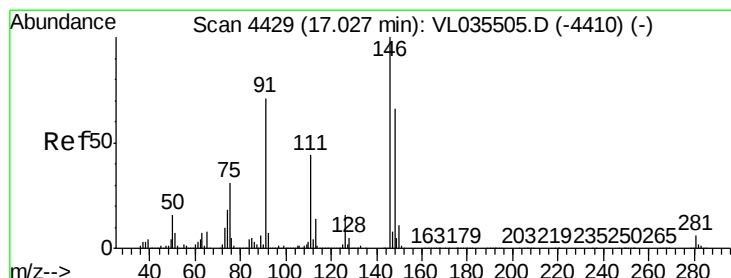
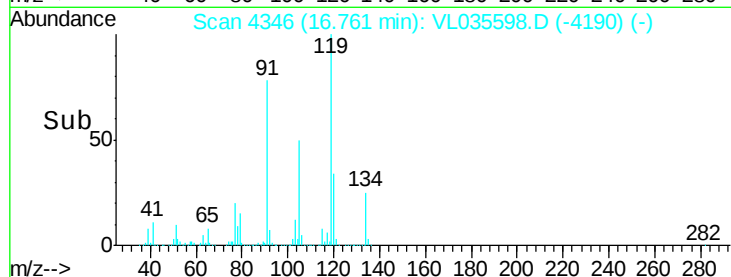
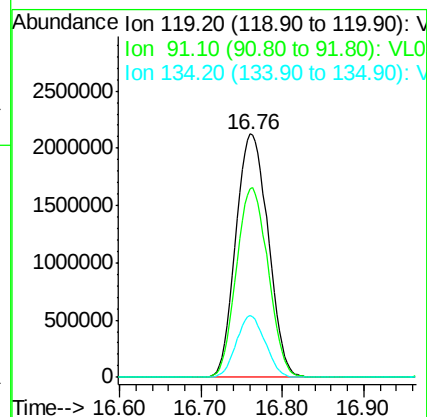
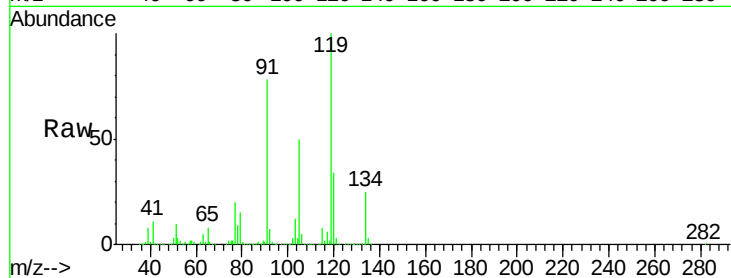
91 76.4 58.6 87.8

134 22.8 18.9 28.3

Manual Integrations
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#66

Benzyl Chloride

Concen: 14.485 ppbv

RT: 17.01 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

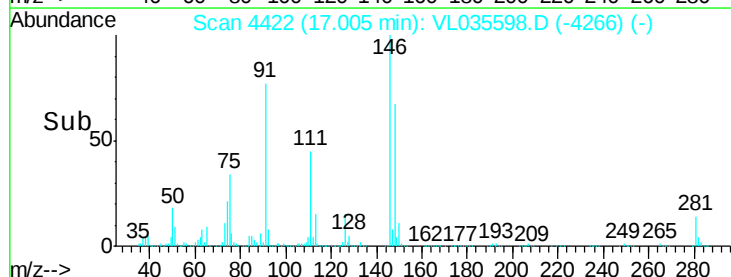
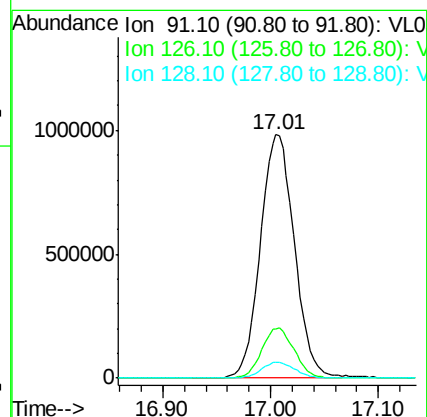
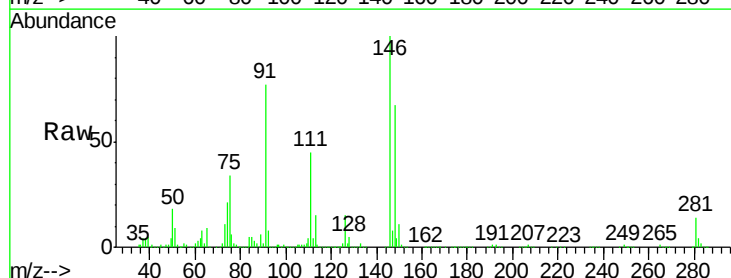
Tgt Ion: 91 Resp: 2141528

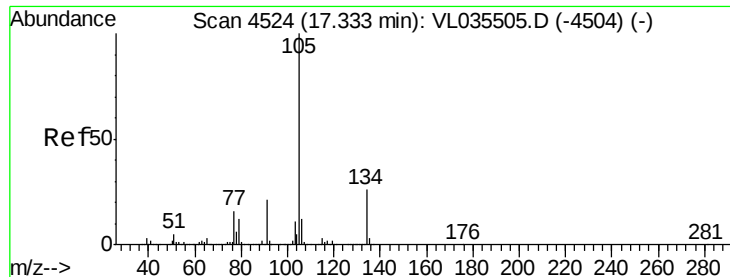
Ion Ratio Lower Upper

91 100

126 19.8 17.2 25.8

128 6.4 5.5 8.3





#67

sec-Butylbenzene

Concen: 9.830 ppbv

RT: 17.31 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 105 Resp: 7790402

Ion Ratio Lower Upper

105 100

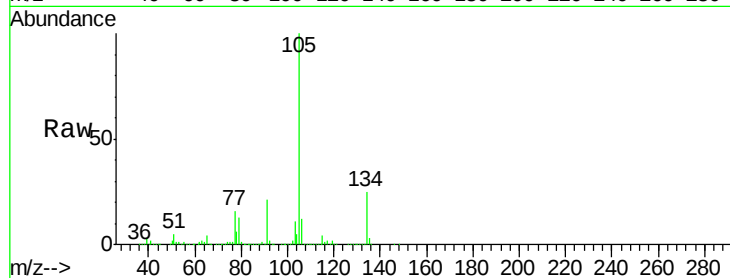
134 22.4 19.1 28.7

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.31

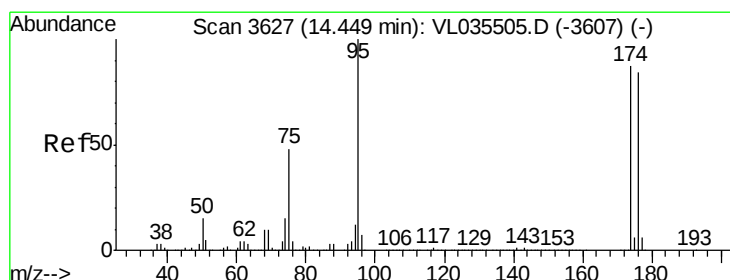
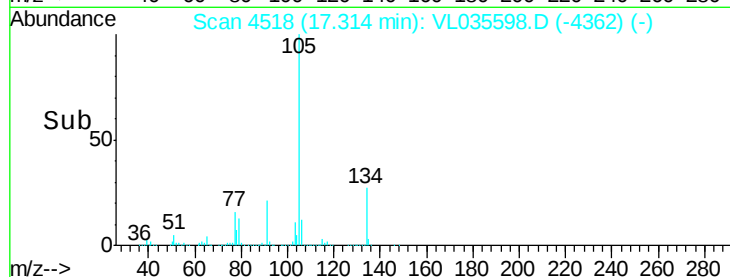
3000000

2000000

1000000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.266 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

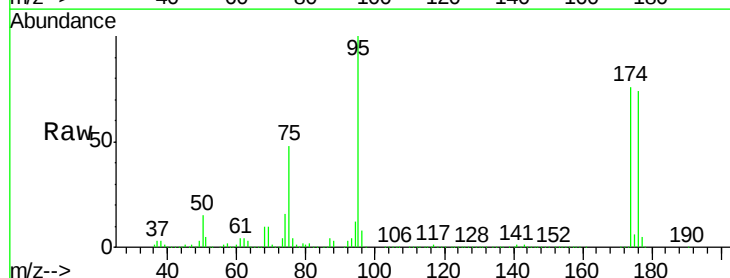
Tgt Ion: 95 Resp: 3346506

Ion Ratio Lower Upper

95 100

174 77.0 69.6 104.4

175 5.6 5.1 7.7



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

2000000

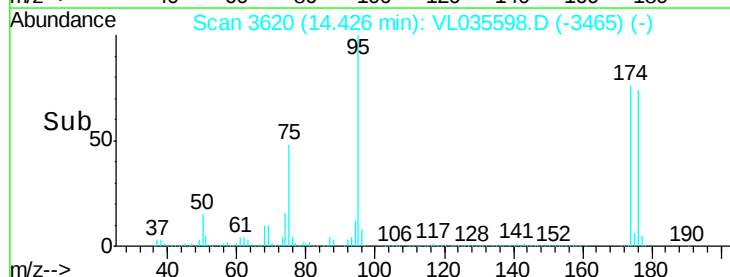
1500000

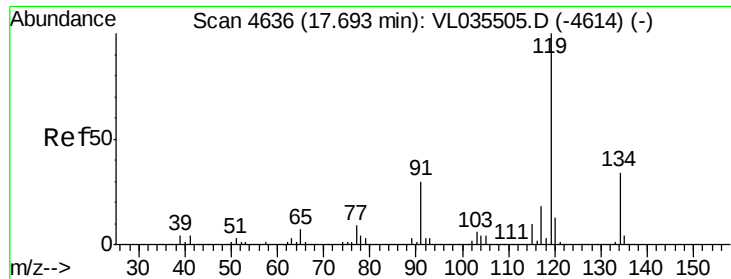
1000000

500000

0

Time-->





#69

p-Isopropyltoluene

Concen: 9.750 ppbv

RT: 17.67 min Scan# 4629

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion: 119 Resp: 6778421

Ion Ratio Lower Upper

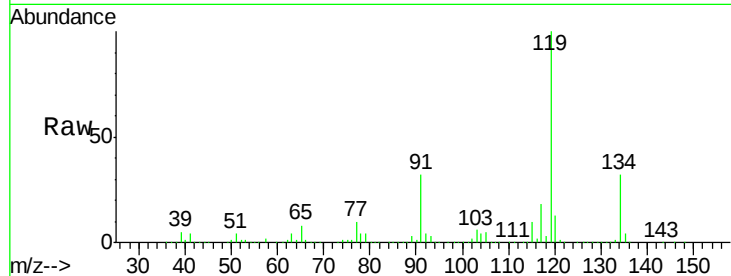
119 100

134 30.0 25.0 37.4

91 29.1 22.3 33.5

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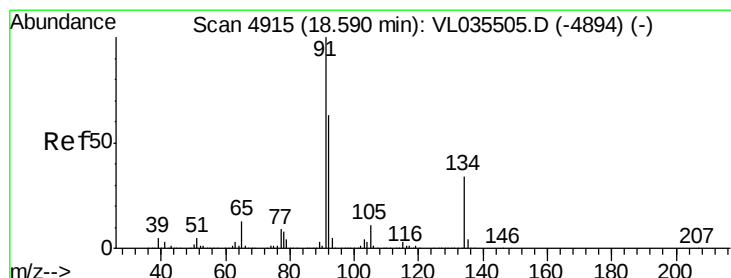
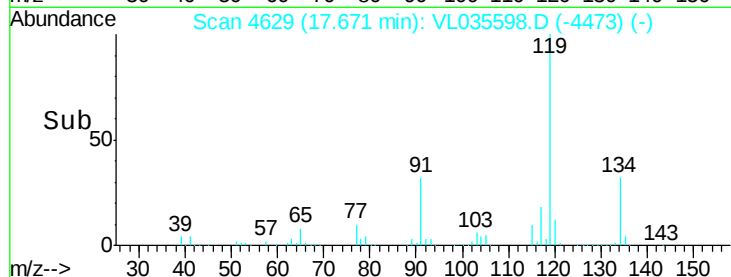
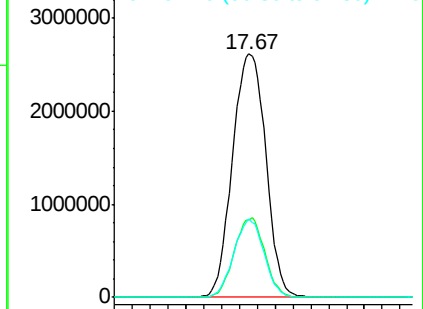
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 10.143 ppbv

RT: 18.57 min Scan# 4909

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

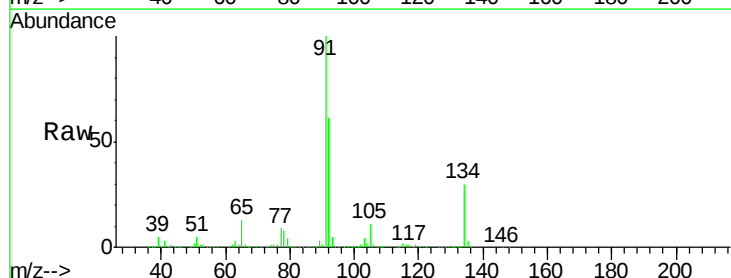
Tgt Ion: 91 Resp: 6791958

Ion Ratio Lower Upper

91 100

92 58.7 47.3 70.9

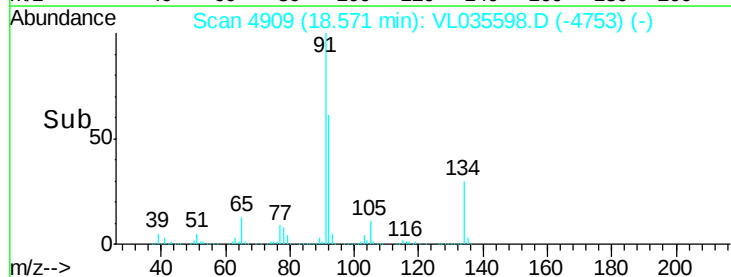
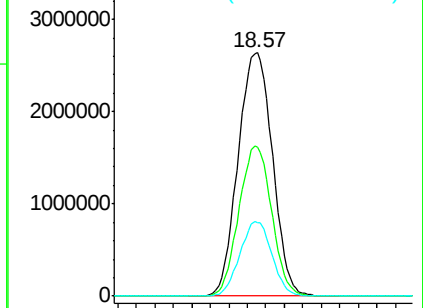
134 28.5 24.6 37.0

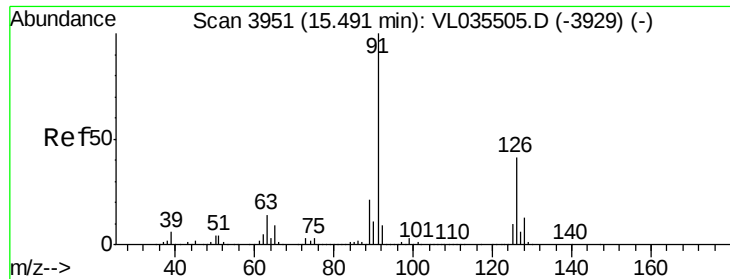


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





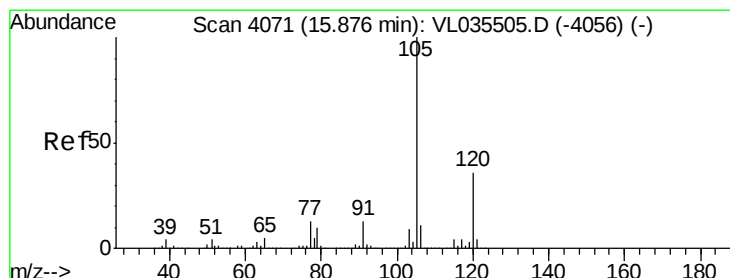
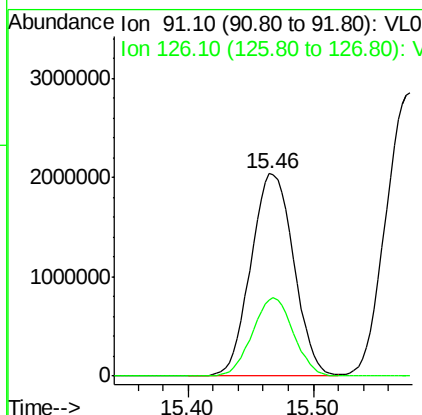
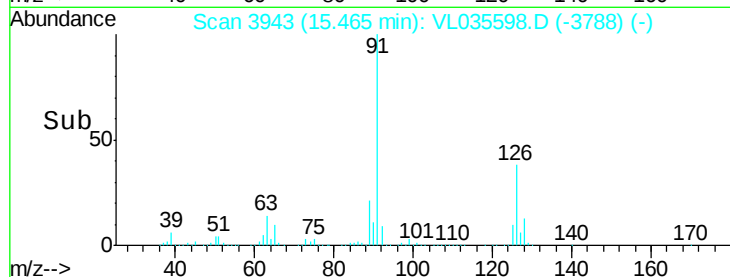
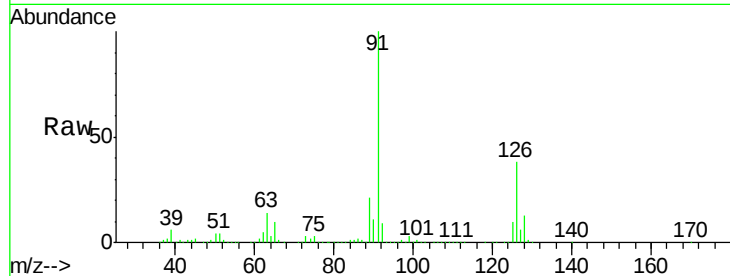
#71
 2-Chlorotoluene
 Concen: 10.423 ppbv
 RT: 15.46 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion: 91 Resp: 4857148
 Ion Ratio Lower Upper
 91 100
 126 37.0 15.6 62.6

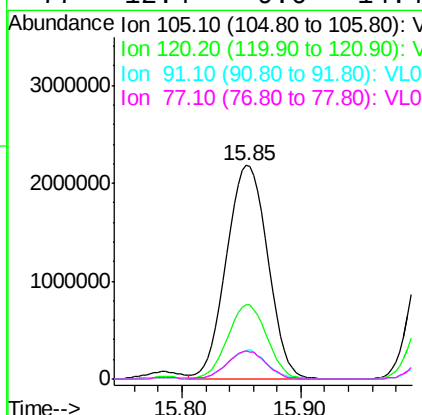
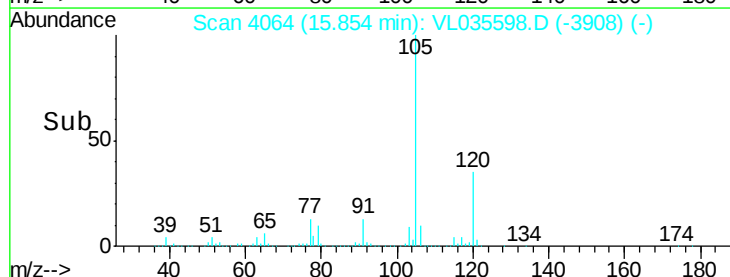
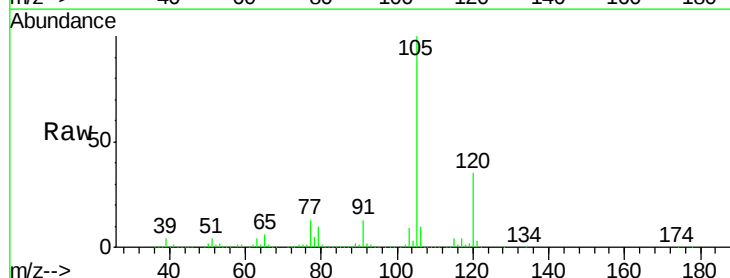
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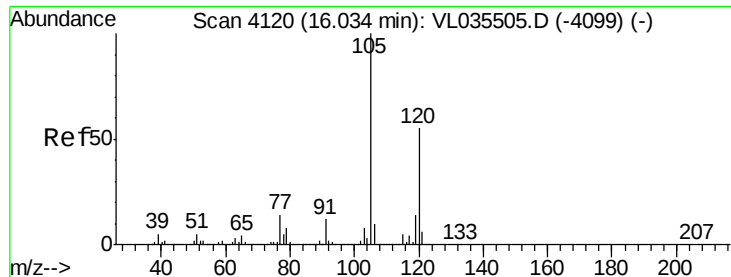
MMDadoda
 9/17/2020 5:39:59 PM



#72
 4-Ethyltoluene
 Concen: 10.354 ppbv
 RT: 15.85 min Scan# 4064
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Tgt Ion:105 Resp: 5243931
 Ion Ratio Lower Upper
 105 100
 120 33.2 27.4 41.2
 91 12.5 9.7 14.5
 77 12.4 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 10.321 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion:105 Resp: 4834940

Ion Ratio Lower Upper

105 100

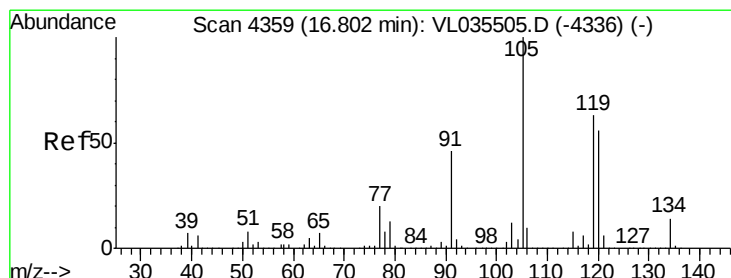
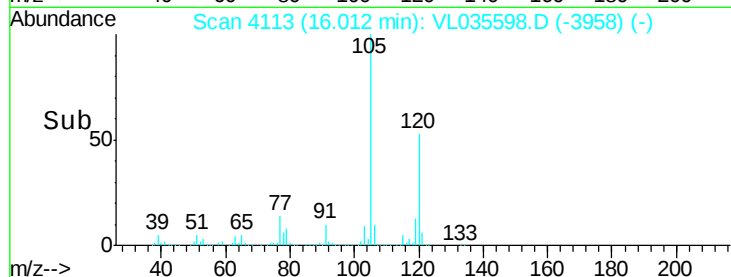
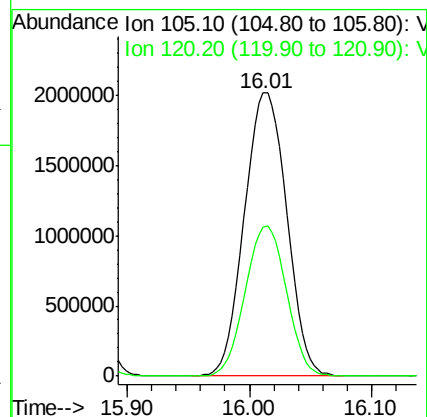
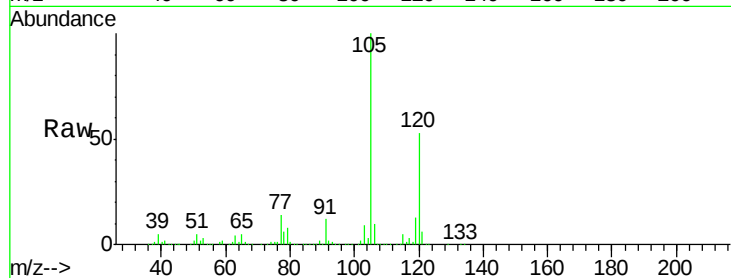
120 52.6 44.2 66.2

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 9.915 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion:105 Resp: 5100507

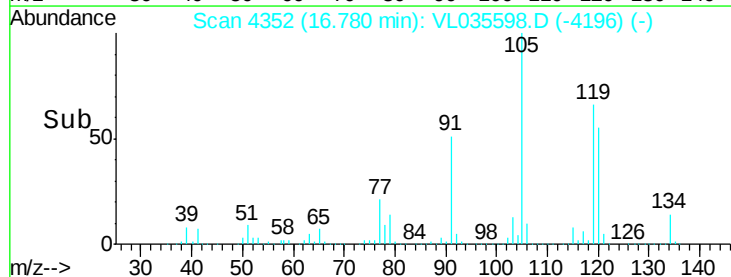
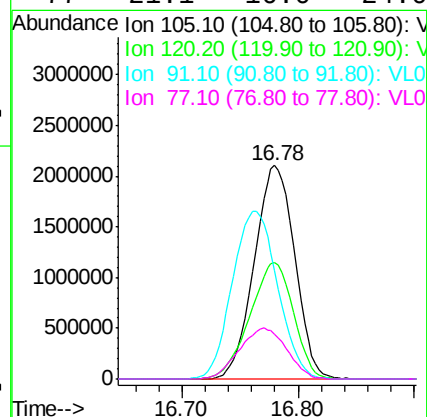
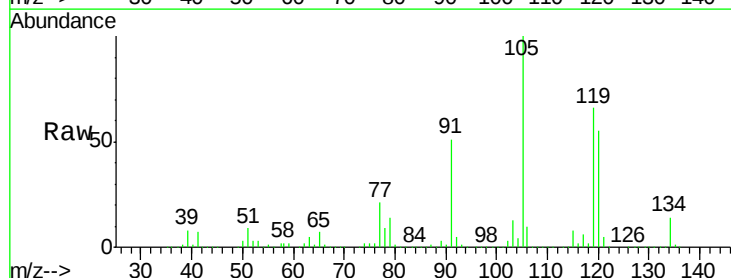
Ion Ratio Lower Upper

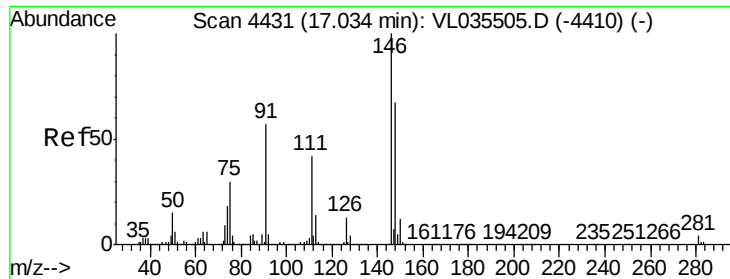
105 100

120 54.7 44.4 66.6

91 50.7 37.1 55.7

77 21.1 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 9.225 ppbv

RT: 17.01 min Scan# 4424

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion:146 Resp: 3515216

Ion Ratio Lower Upper

146 100

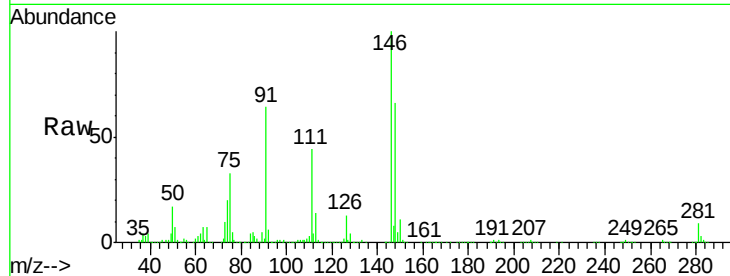
111 43.7 20.7 62.1

148 65.7 33.0 98.9

Manual Integrations
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MMDadoda

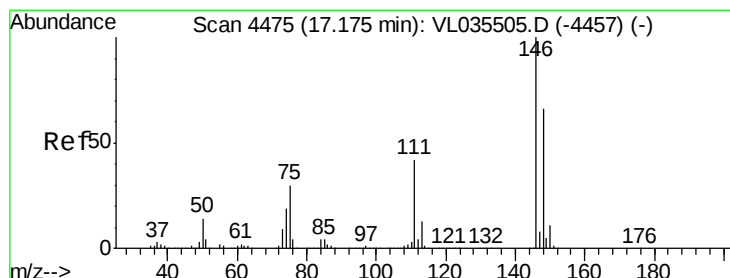
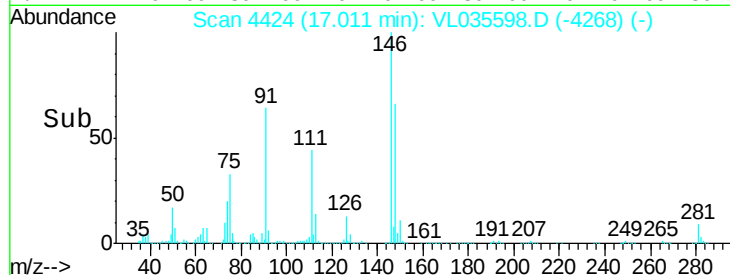
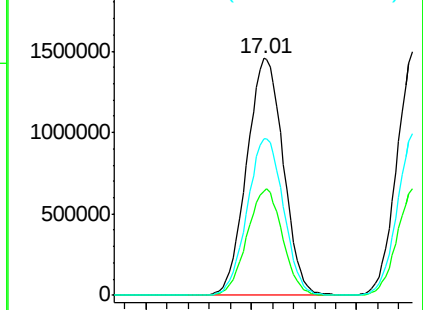
9/17/2020 5:39:59 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.460 ppbv

RT: 17.16 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

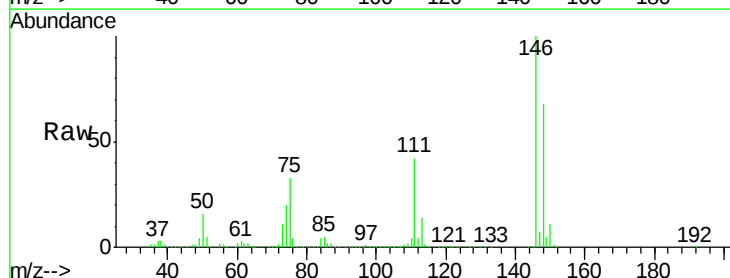
Tgt Ion:146 Resp: 3555141

Ion Ratio Lower Upper

146 100

111 42.5 20.0 60.0

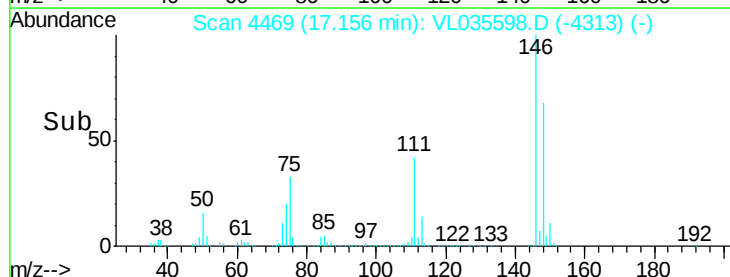
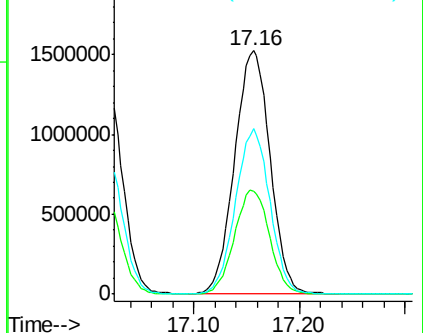
148 66.1 33.2 99.6

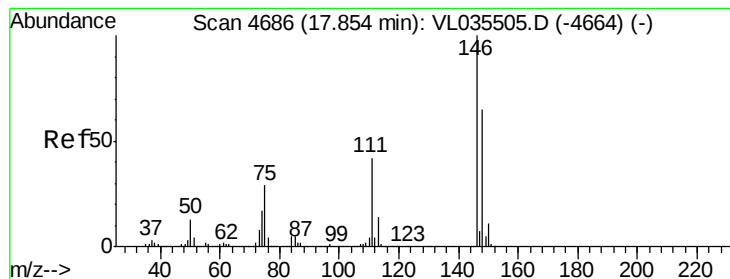


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.270 ppbv

RT: 17.83 min Scan# 4680

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

ClientSampleId :

VL0914ABS01

Tot Ion:146 Resp: 3422186

Ion Ratio Lower Upper

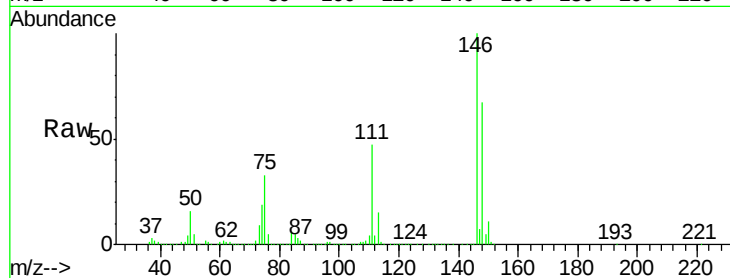
146 100

111 45.1 21.1 63.3

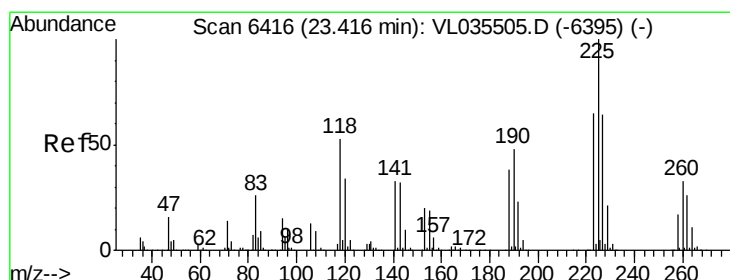
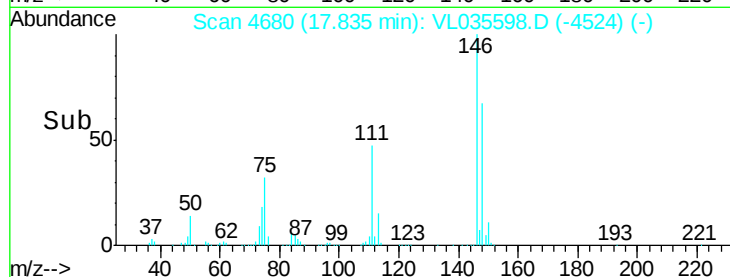
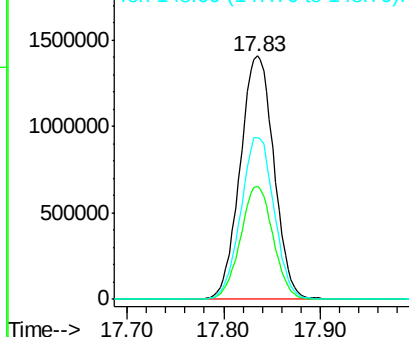
148 65.4 32.9 98.7

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.829 ppbv

RT: 23.40 min Scan# 6410

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

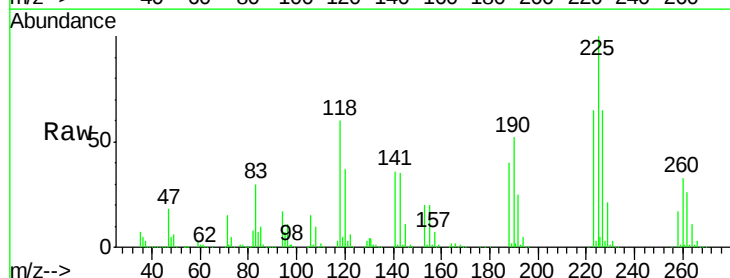
Tgt Ion:225 Resp: 2080867

Ion Ratio Lower Upper

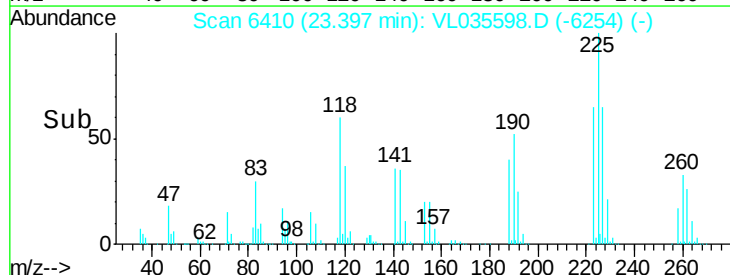
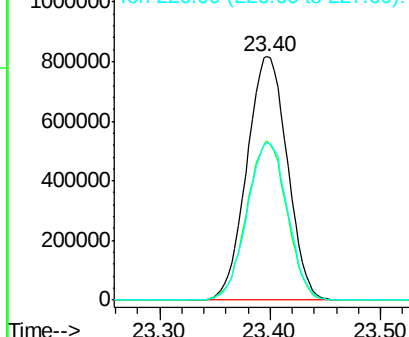
225 100

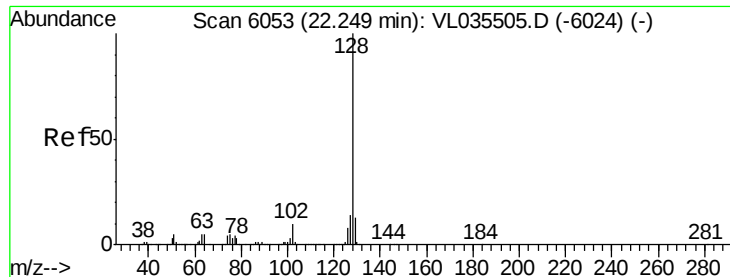
223 64.4 51.7 77.5

227 64.8 51.5 77.3



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.387 ppbv

RT: 22.22 min Scan# 6045

Delta R.T. 0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Instrument :

MSVOA_L

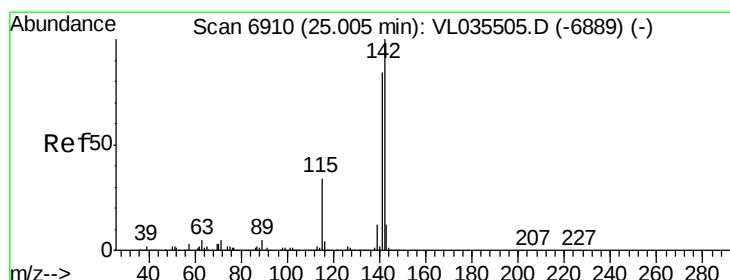
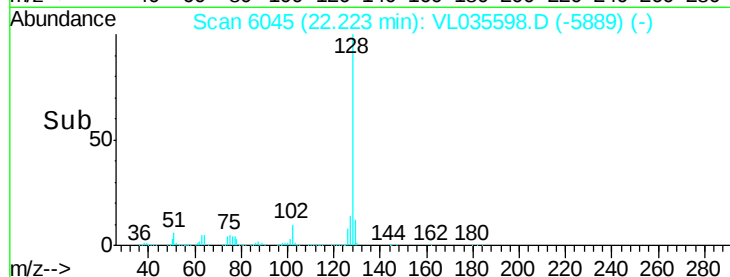
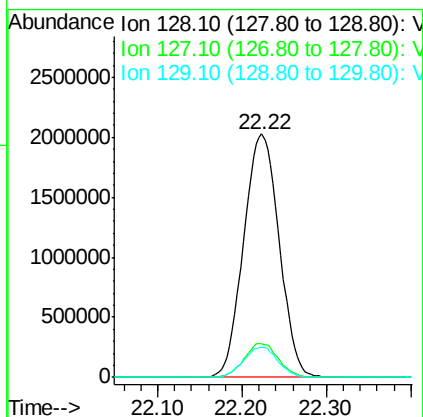
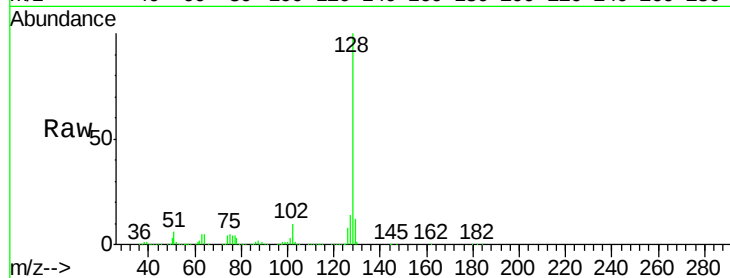
ClientSampleId :

VL0914ABS01

Tot Ion:	128	Resp:	5928866
Ion	Ratio	Lower	Upper
128	100		
127	13.9	11.4	17.2
129	12.5	10.5	15.7

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#80

Naphthalene, 2-methyl-

Concen: 11.292 ppbv

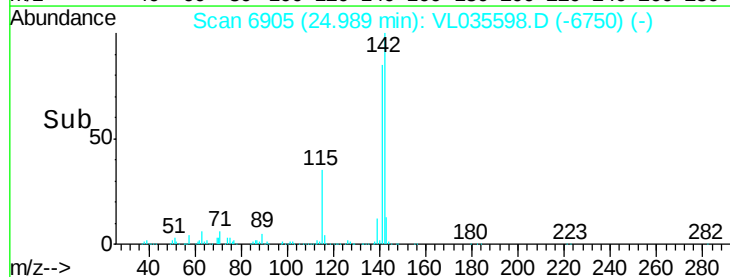
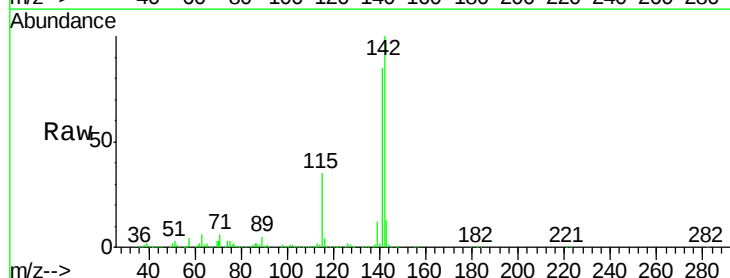
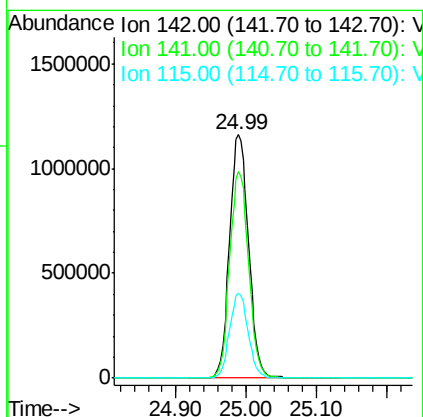
RT: 24.99 min Scan# 6905

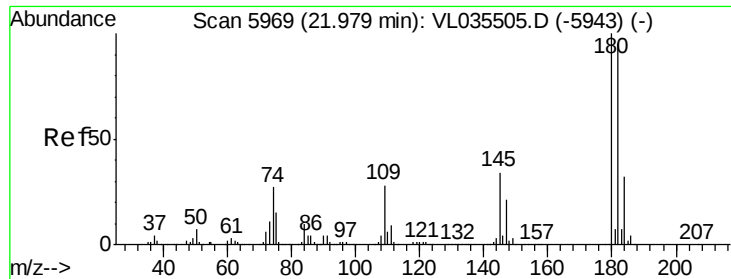
Delta R.T. -0.00 min

Lab File: VL035598.D

Acq: 14 Sep 2020 14:05

Tgt Ion:	142	Resp:	2200003
Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.6	101.4
115	34.2	25.8	38.8





#81
 1,2,4-Trichlorobenzene
 Concen: 9.331 ppbv
 RT: 21.95 min Scan# 5961
 Delta R.T. 0.00 min
 Lab File: VL035598.D
 Acq: 14 Sep 2020 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0914ABS01

Tot Ion:	180	Resp:	3189577
Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.3	114.5
184	31.3	25.3	37.9

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:39:59 PM

