

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101620\
 Data File : VL035782.D
 Acq On : 16 Oct 2020 11:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:10:05 AM

Quant Time: Oct 17 03:26:57 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 2

QLast Update : Wed Sep 23 07:38:05 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1107343	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4292246	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	4209317m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3127478	9.92	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1488354	8.191	ppbv 100
3) Chlorodifluoromethane	2.98	51	1208912	10.148	ppbv 99
4) Chloromethane	3.13	50	642704	10.043	ppbv 96
5) Vinyl Chloride	3.25	62	769065	10.160	ppbv 98
6) Bromomethane	3.46	94	639049	9.987	ppbv 98
7) Chloroethane	3.55	64	285566	10.286	ppbv 97
8) Dichlorotetrafluoroethane	3.18	85	2088111	9.475	ppbv 100
9) Propene	3.00	41	466246	10.779	ppbv 100
10) Heptane	8.12	43	1345101	11.155	ppbv 99
11) Trichlorofluoromethane	3.94	101	2530864	9.762	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1874230	9.698	ppbv 100
13) Ethanol	3.60	45	99471	9.325	ppbv 96
14) Bromoethene	3.73	108	849435	10.435	ppbv 100
15) Acetone	3.84	43	1057729	8.877	ppbv 100
16) 1,3-Butadiene	3.32	39	481058	11.036	ppbv 99
17) tert-Butyl alcohol	4.29	59	1456015	11.218	ppbv 100
18) 1,1-Dichloroethene	4.28	96	878955	10.388	ppbv 97
19) Isopropyl Alcohol	3.96	45	700643	10.810	ppbv # 97
20) Methylene Chloride	4.34	84	723113	8.262	ppbv 97
21) Allyl Chloride	4.40	41	632143	10.945	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	910559	10.186	ppbv 98
23) Vinyl Acetate	5.07	43	1686232	11.554	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1612511	10.144	ppbv 99
25) Ethyl Acetate	5.67	43	2213904	10.326	ppbv 100
26) Hexane	5.68	57	1227870	10.451	ppbv 99
27) Carbon Disulfide	4.54	76	1961327	11.200	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	2194506	11.783	ppbv 99
29) Chloroform	5.75	83	2421491	10.149	ppbv 99
30) Cyclohexane	7.13	84	1329792	11.472	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	1310010	11.551	ppbv 98
32) 1,1,1-Trichloroethane	6.51	97	2387066	11.350	ppbv 100
34) 2-Butanone	5.24	43	1527892	10.762	ppbv 99
35) Carbon Tetrachloride	7.02	117	2422150	10.823	ppbv 99
36) Benzene	6.89	78	3077360	11.003	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1512893	10.379	ppbv 100
38) Trichloroethene	7.84	130	1503359	10.775	ppbv 98
39) 1,2-Dichloropropane	7.62	63	1073954	10.594	ppbv 97
40) 1,4-Dioxane	7.83	88	501352	10.814	ppbv 97
41) Tetrahydrofuran	6.05	42	866769	12.119	ppbv 99
42) Bromodichloromethane	7.80	83	2542345	10.827	ppbv 100
43) Methyl Methacrylate	8.02	69	1295379	11.646	ppbv 99

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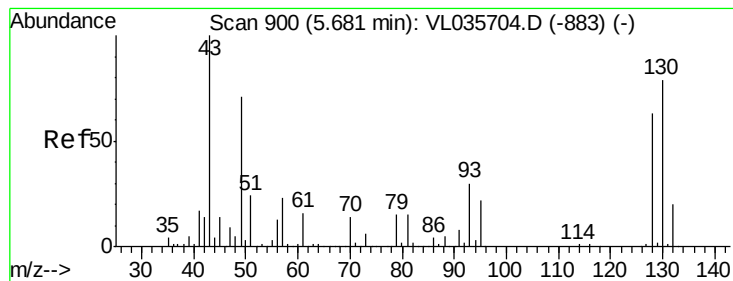
Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:10:05 AM

Quant Time: Oct 17 03:26:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 2
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4147902	10.335	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1465565	13.050	ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	1745182	12.607	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1478447	10.182	ppbv	99
48) Dibromochloromethane	10.31	129	2487554	11.256	ppbv	100
49) Bromoform	13.05	173	2240023	11.946	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2240285	10.804	ppbv	100
51) 2-Hexanone	10.14	43	1888999	11.307	ppbv #	100
52) Tetrachloroethene	11.23	164	1445185	10.745	ppbv	99
53) Toluene	9.81	91	3841920	11.649	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2326861	10.702	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.14	131	1937451	10.977	ppbv	97
57) Chlorobenzene	12.16	112	3191821	10.039	ppbv	99
58) Ethyl Benzene	12.72	91	4979256	11.786	ppbv	99
59) m/p-Xylene	13.01	91	8466018m	22.946	ppbv	
60) o-Xylene	13.71	91	4113420	11.021	ppbv	100
61) Styrene	13.54	104	3249367	12.591	ppbv	99
62) Isopropylbenzene	14.68	105	6220569	10.746	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	2980077	9.737	ppbv	100
64) n-propylbenzene	15.58	120	1907788	11.260	ppbv	99
65) tert-Butylbenzene	16.76	119	5729781	10.886	ppbv	99
66) Benzyl Chloride	17.01	91	2123501	13.316	ppbv	98
67) sec-Butylbenzene	17.31	105	7663041	10.543	ppbv	100
69) p-Isopropyltoluene	17.67	119	6468316	10.939	ppbv	99
70) n-Butylbenzene	18.57	91	6382603	10.482	ppbv	99
71) 2-Chlorotoluene	15.47	91	4737625	11.220	ppbv	99
72) 4-Ethyltoluene	15.86	105	5056001	11.436	ppbv	100
73) 1,3,5-Trimethylbenzene	16.01	105	4672202	11.183	ppbv	98
74) 1,2,4-Trimethylbenzene	16.78	105	4839152	10.275	ppbv	99
75) 1,3-Dichlorobenzene	17.01	146	3210842	9.985	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	3243414	10.552	ppbv	99
77) 1,2-Dichlorobenzene	17.83	146	3142211	10.346	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	1705349	10.177	ppbv	100
79) Naphthalene	22.23	128	4778891	10.638	ppbv	100
80) Naphthalene, 2-methyl-	24.99	142	1412081	13.327	ppbv	98
81) 1,2,4-Trichlorobenzene	21.95	180	2493552	10.711	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. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1107343

Ion Ratio Lower Upper

49 100

128 84.8 43.1 129.4

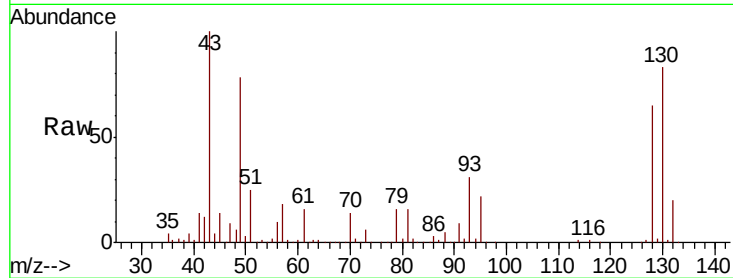
130 108.3 54.9 164.7

Manual Integrations

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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

800000

600000

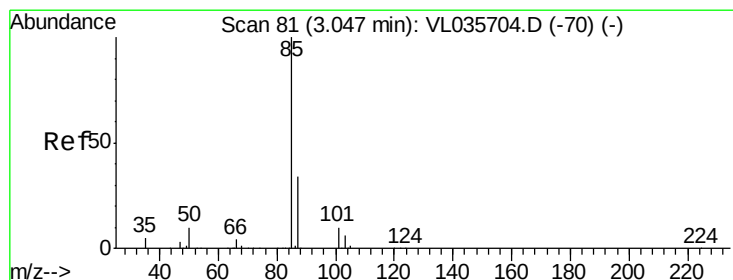
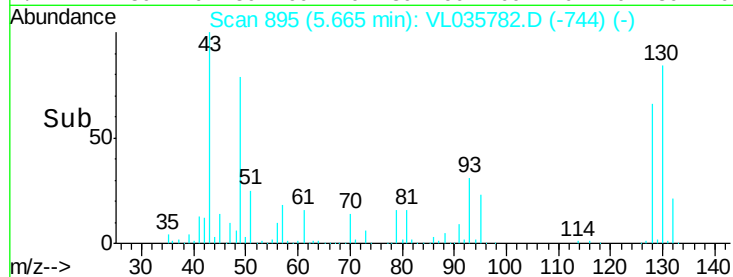
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 8.191 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035782.D

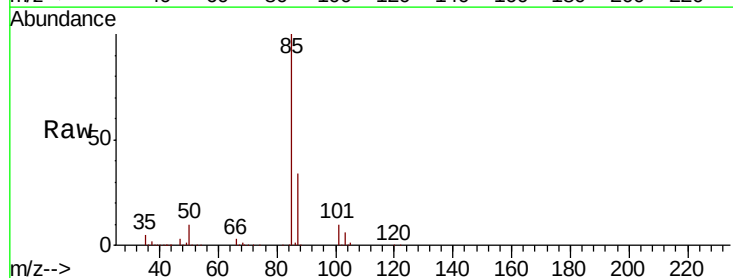
Acq: 16 Oct 2020 11:05

Tgt Ion: 85 Resp: 1488354

Ion Ratio Lower Upper

85 100

87 34.3 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

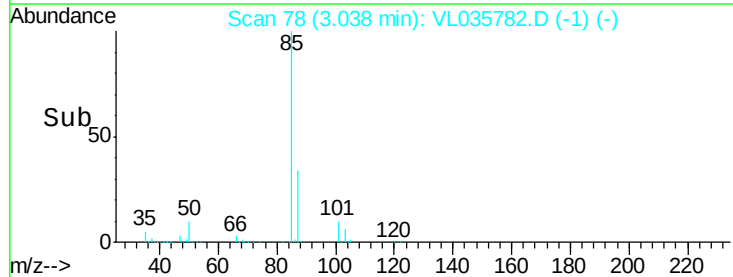
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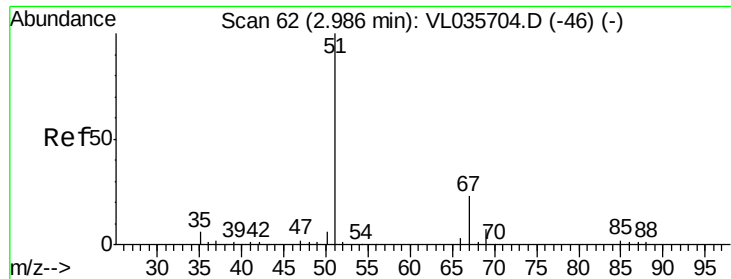
500000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 10.148 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1208912

Ion Ratio Lower Upper

51 100

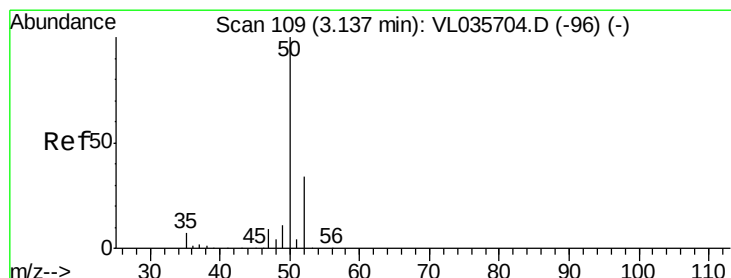
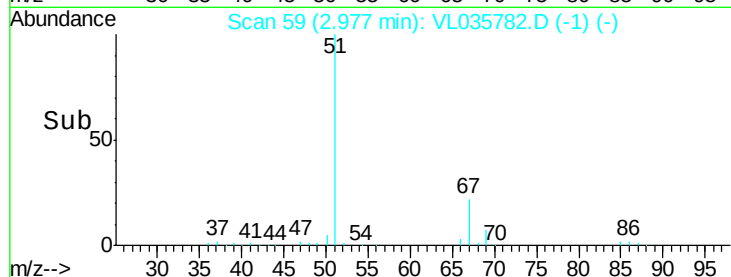
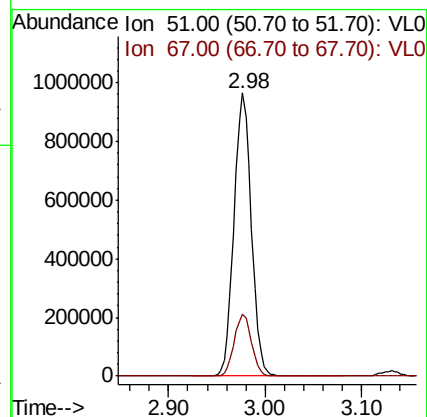
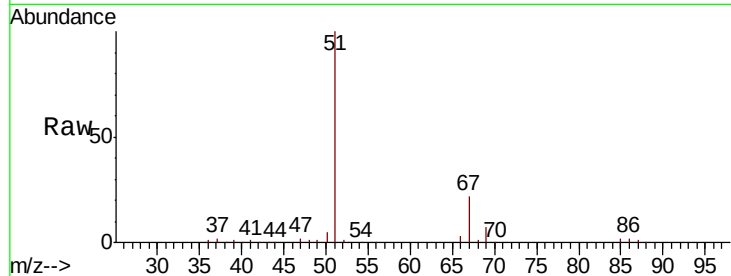
67 21.9 17.8 26.8

Manual Integrations

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#4

Chloromethane

Concen: 10.043 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035782.D

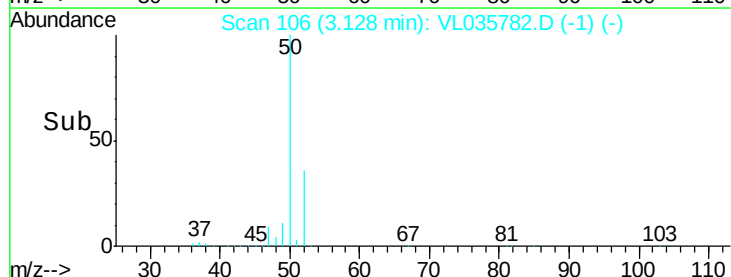
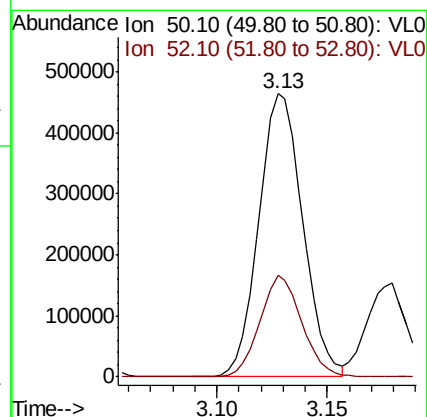
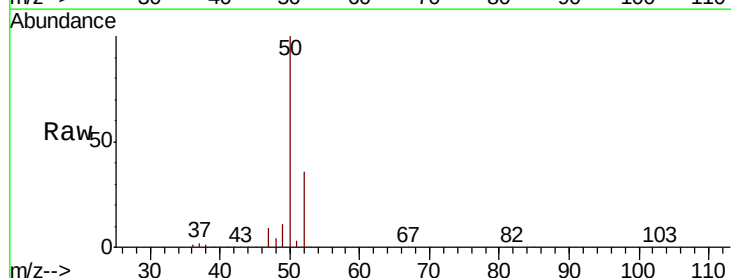
Acq: 16 Oct 2020 11:05

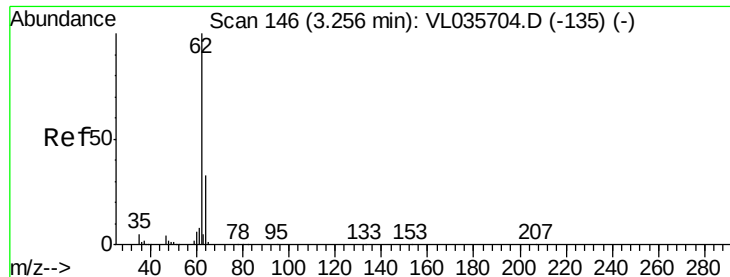
Tgt Ion: 50 Resp: 642704

Ion Ratio Lower Upper

50 100

52 35.8 26.8 40.2





#5

Vinyl Chloride

Concen: 10.160 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 769065

Ion Ratio Lower Upper

62 100

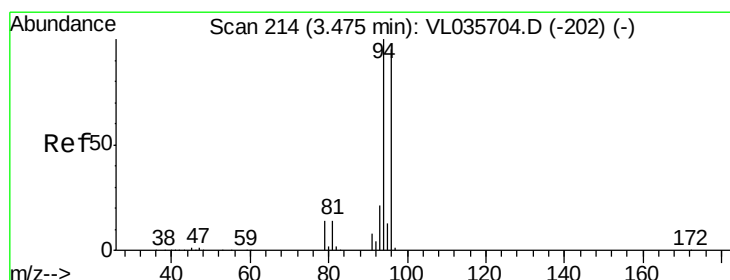
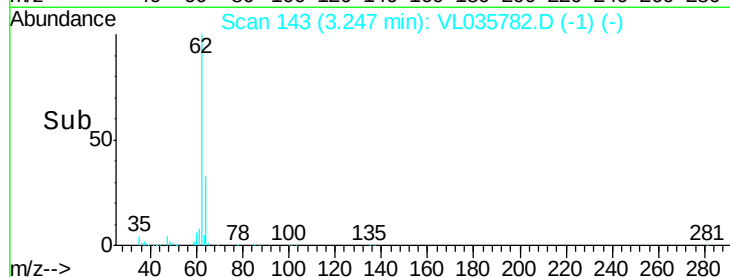
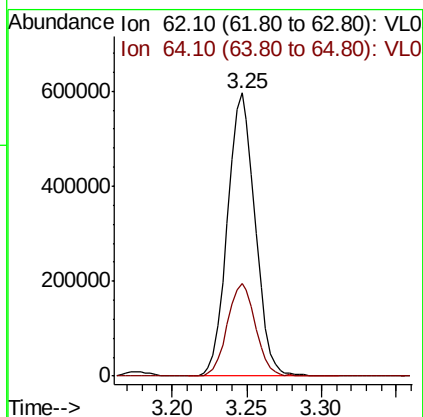
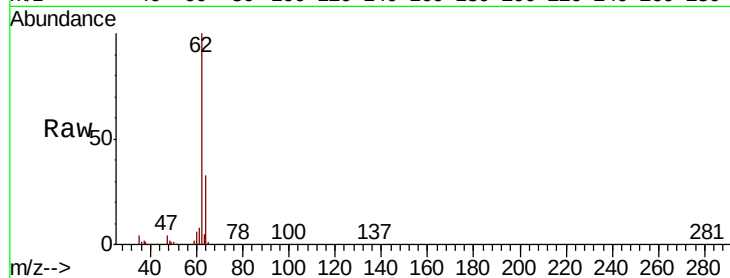
64 32.6 26.8 40.2

Manual Integrations

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#6

Bromomethane

Concen: 9.987 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL035782.D

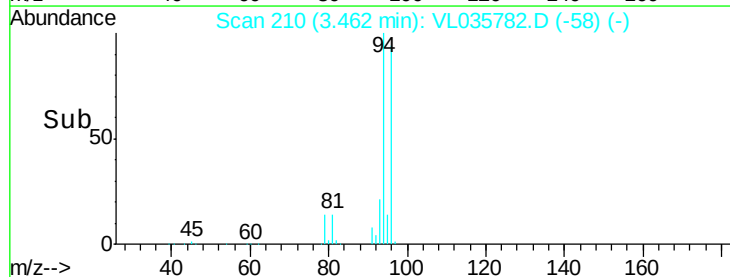
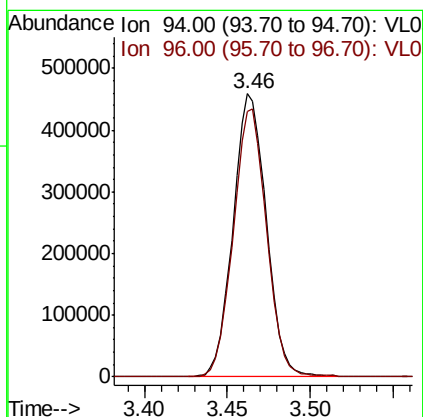
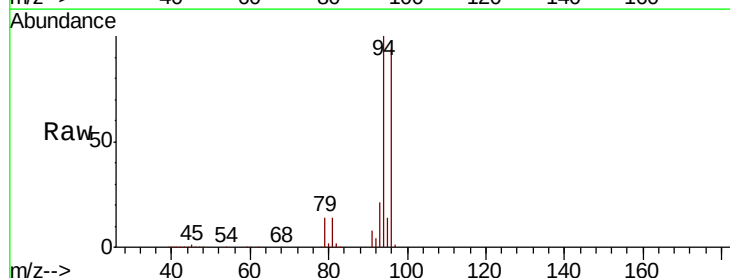
Acq: 16 Oct 2020 11:05

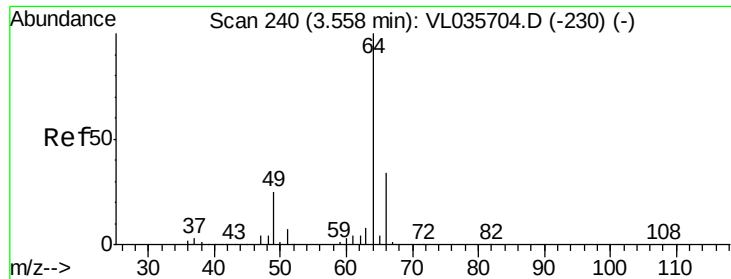
Tgt Ion: 94 Resp: 639049

Ion Ratio Lower Upper

94 100

96 93.9 76.3 114.5





#7

Chloroethane

Concen: 10.286 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 285566

Ion Ratio Lower Upper

64 100

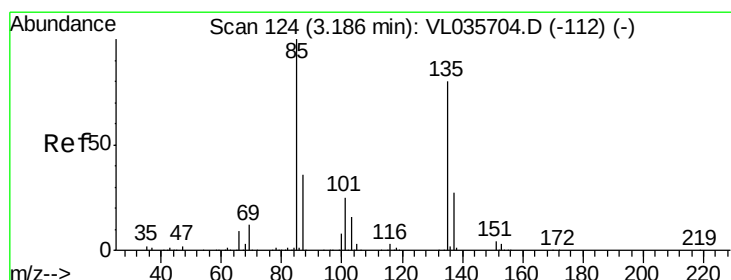
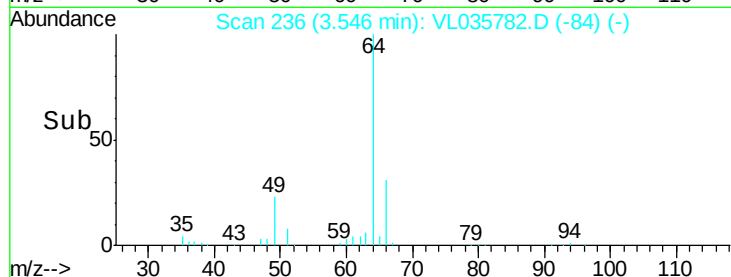
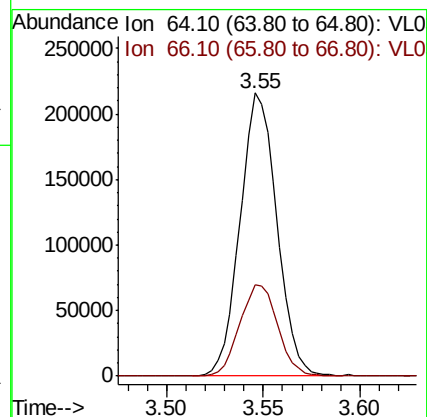
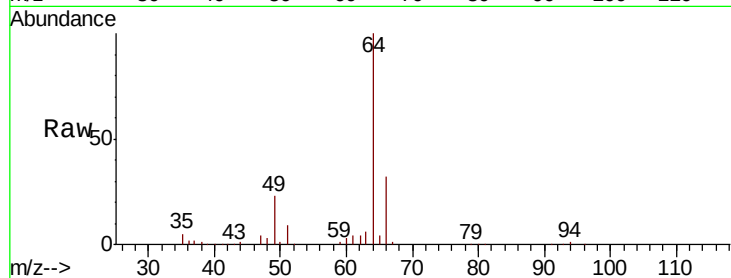
66 32.1 26.9 40.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.475 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL035782.D

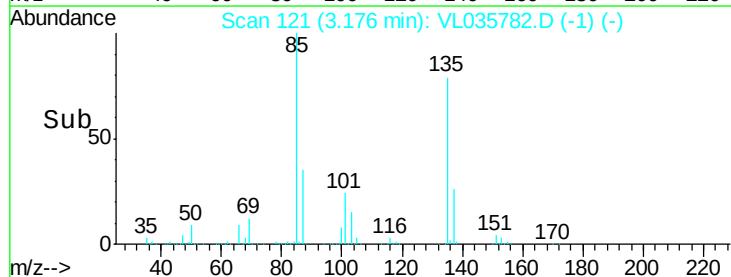
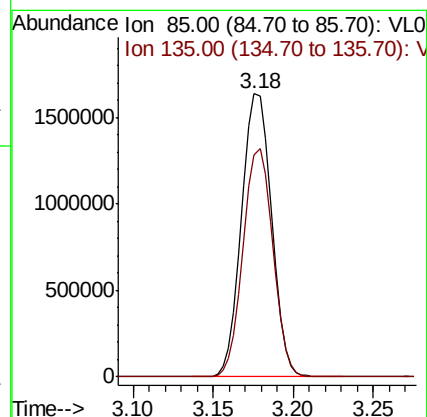
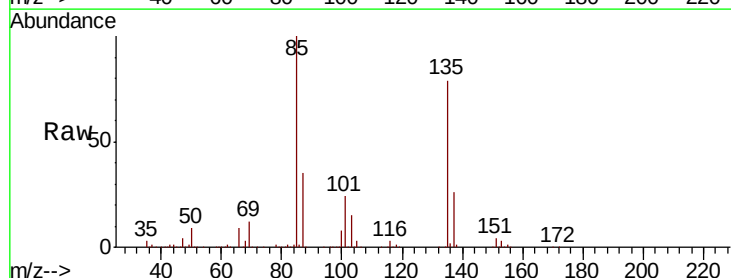
Acq: 16 Oct 2020 11:05

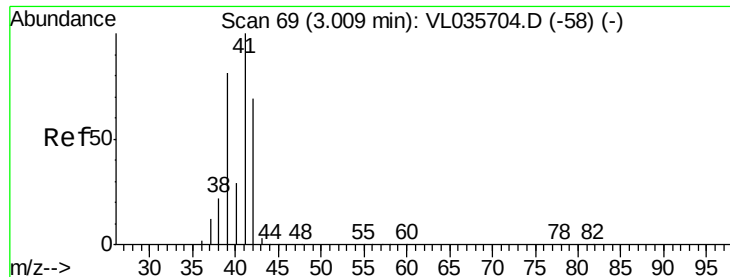
Tgt Ion: 85 Resp: 2088111

Ion Ratio Lower Upper

85 100

135 80.0 64.3 96.5





#9

Propene

Concen: 10.779 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 466246

Ion Ratio Lower Upper

41 100

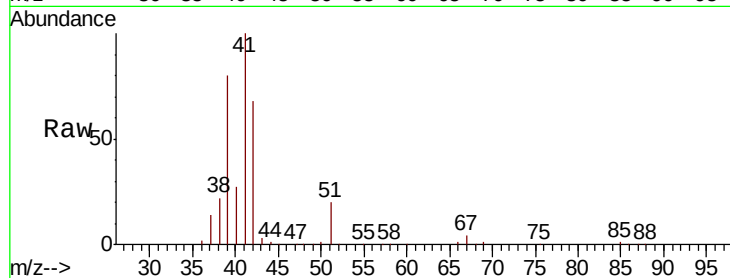
42 70.1 56.2 84.4

Manual Integrations

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MMDadoda

10/19/2020 11:10:05 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

400000

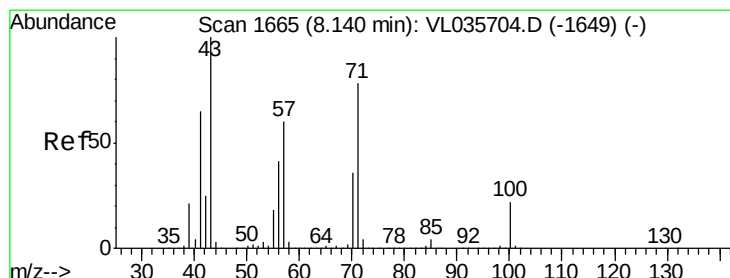
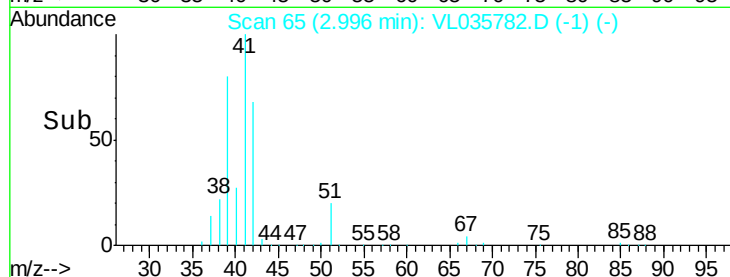
300000

200000

100000

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Time-->



#10

Heptane

Concen: 11.155 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.02 min

Lab File: VL035782.D

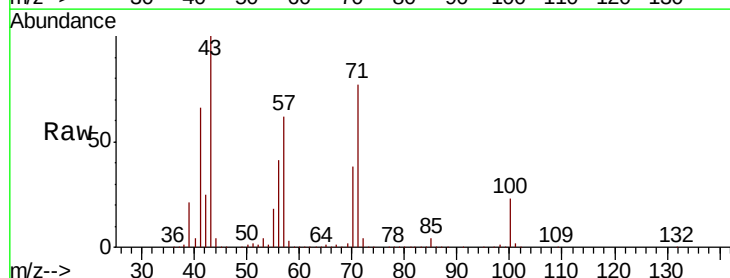
Acq: 16 Oct 2020 11:05

Tgt Ion: 43 Resp: 1345101

Ion Ratio Lower Upper

43 100

57 62.4 50.4 75.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

800000

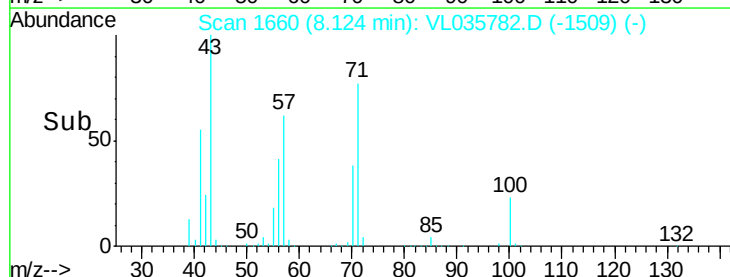
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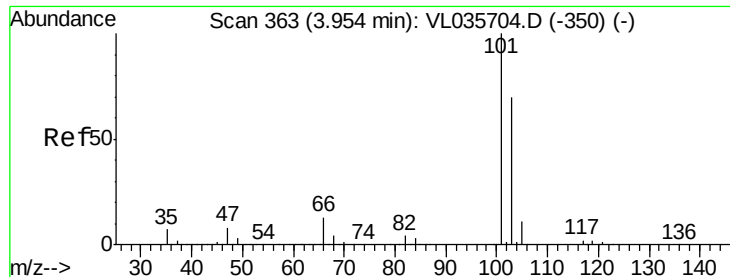
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Time-->





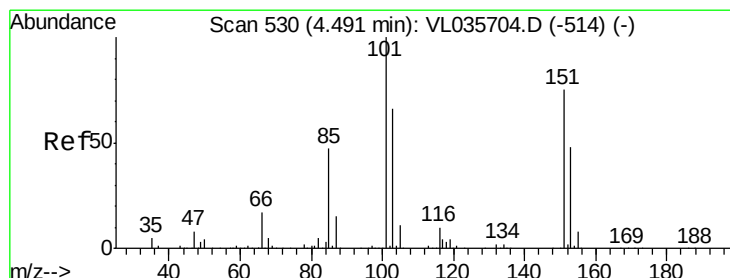
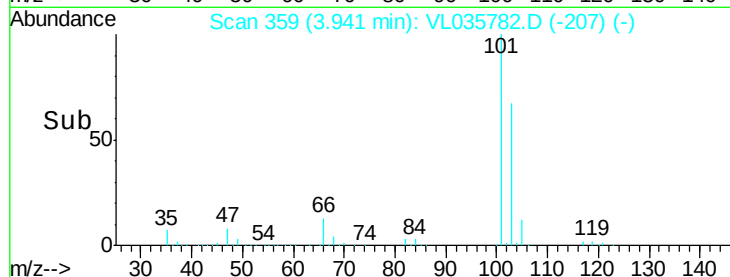
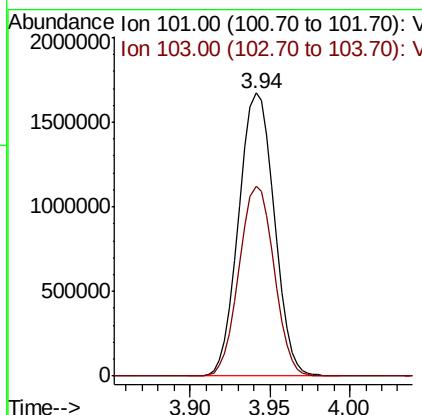
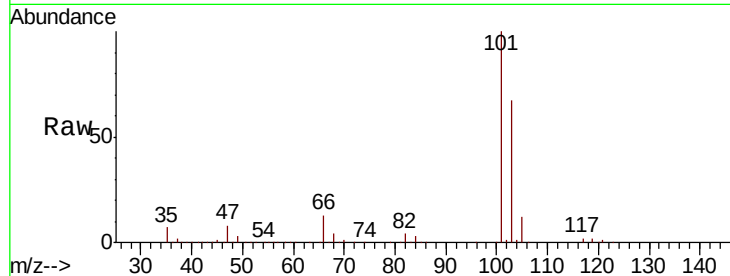
#11
 Trichlorofluoromethane
 Concen: 9.762 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2530864
 Ion Ratio Lower Upper
 101 100
 103 67.3 55.6 83.4

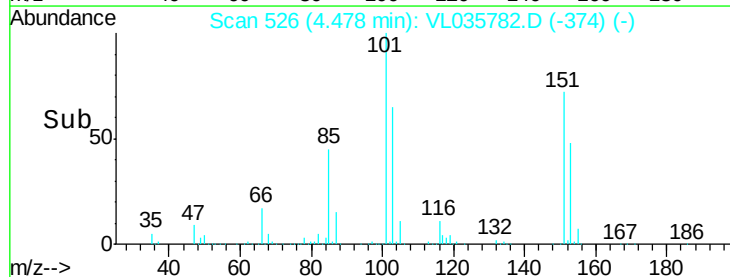
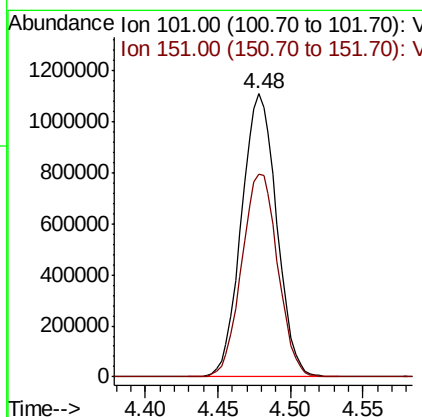
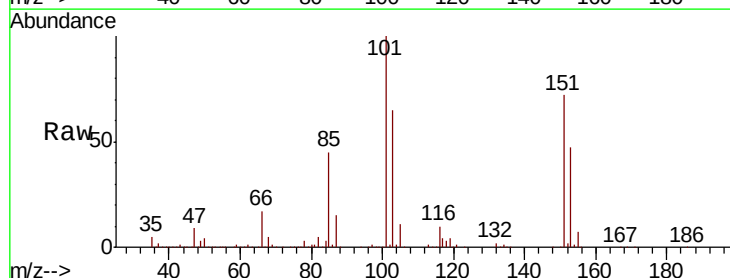
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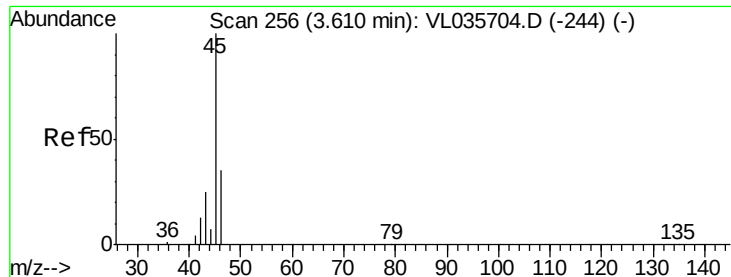
MMDadoda
 10/19/2020 11:10:05 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.698 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion:101 Resp: 1874230
 Ion Ratio Lower Upper
 101 100
 151 73.7 59.1 88.7





#13

Ethanol

Concen: 9.325 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 99471

Ion Ratio Lower Upper

45 100

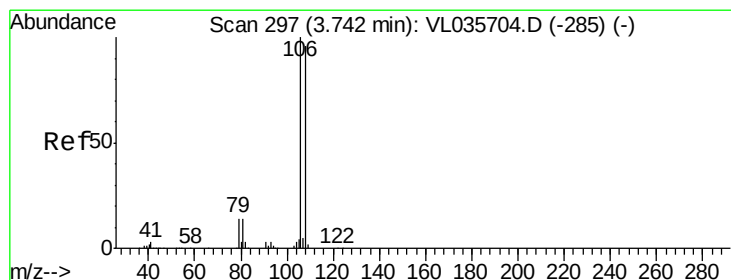
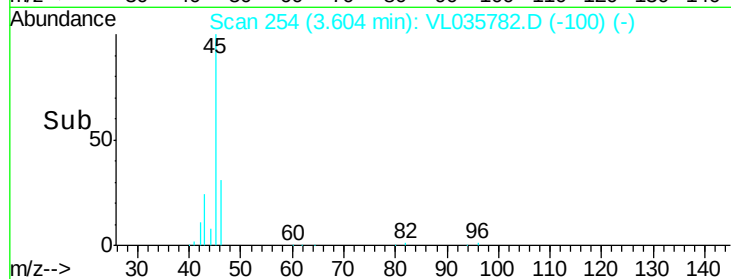
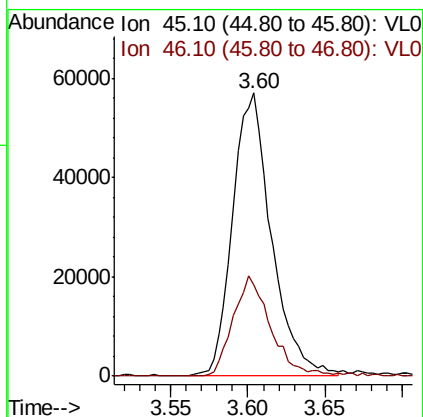
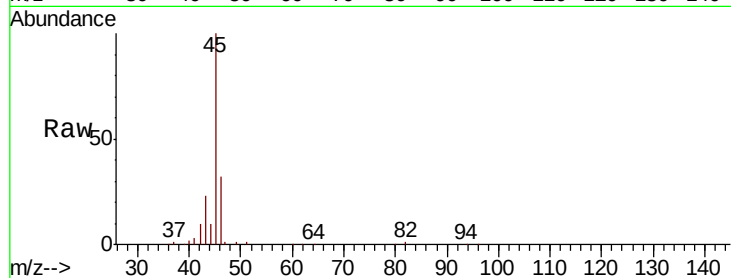
46 34.5 14.7 58.7

Manual Integrations

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#14

Bromoethene

Concen: 10.435 ppbv

RT: 3.73 min Scan# 293

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

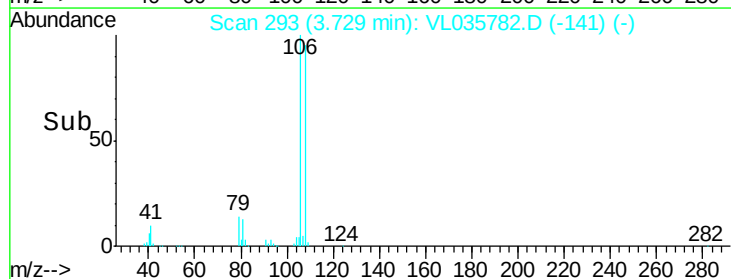
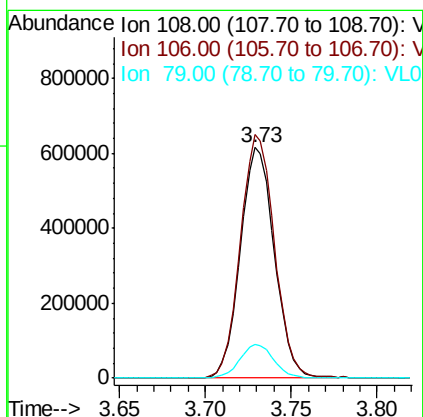
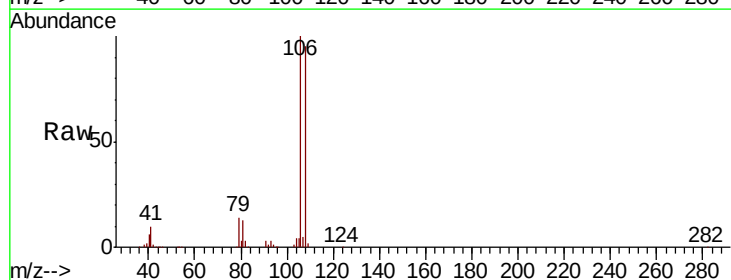
Tgt Ion: 108 Resp: 849435

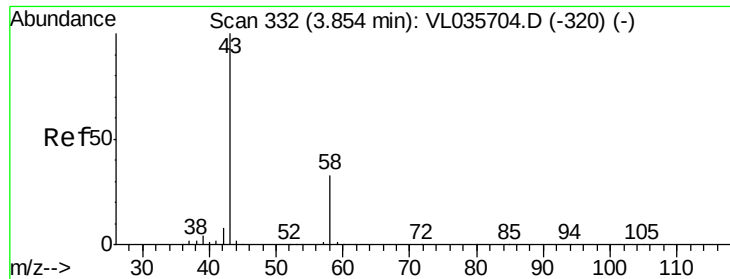
Ion Ratio Lower Upper

108 100

106 106.1 84.6 126.8

79 14.9 11.6 17.4





#15

Acetone

Concen: 8.877 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1057729

Ion Ratio Lower Upper

43 100

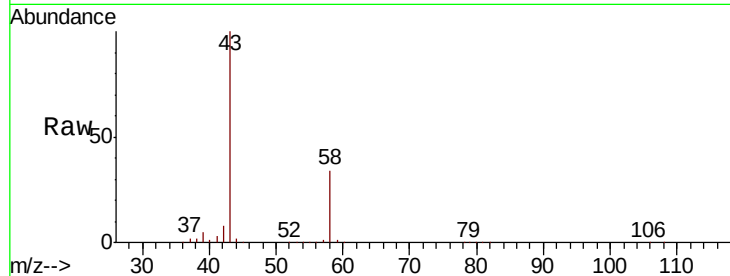
58 34.2 27.3 40.9

Manual Integrations

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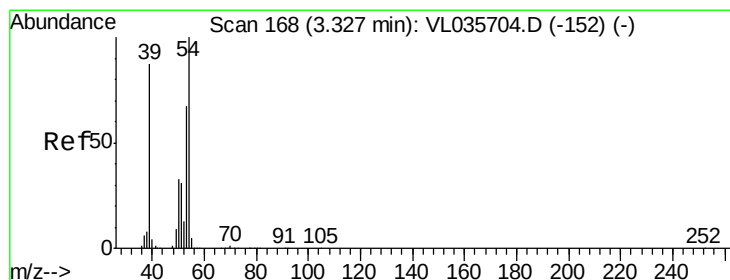
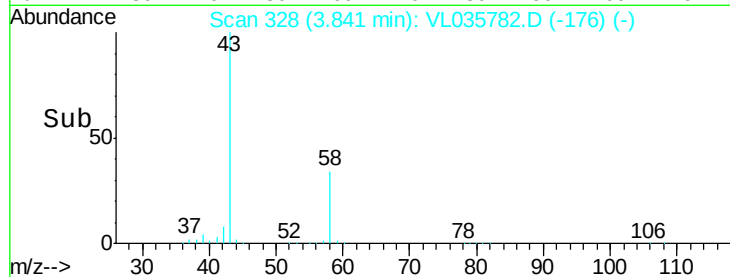
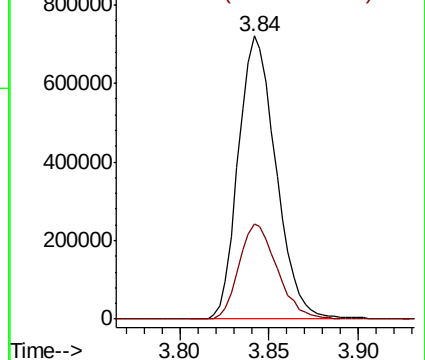
MMDadoda

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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: 11.036 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL035782.D

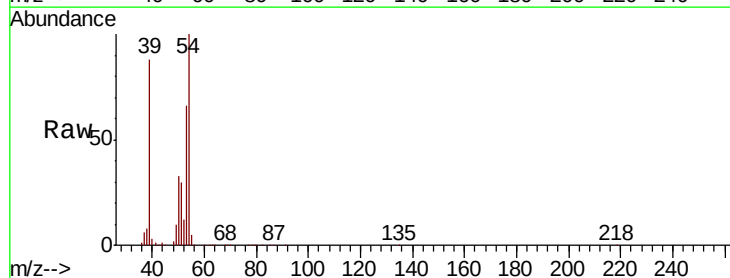
Acq: 16 Oct 2020 11:05

Tgt Ion: 39 Resp: 481058

Ion Ratio Lower Upper

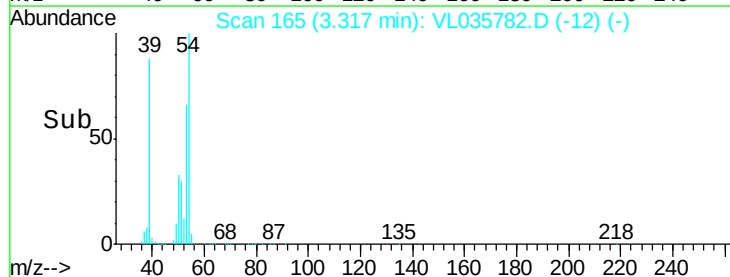
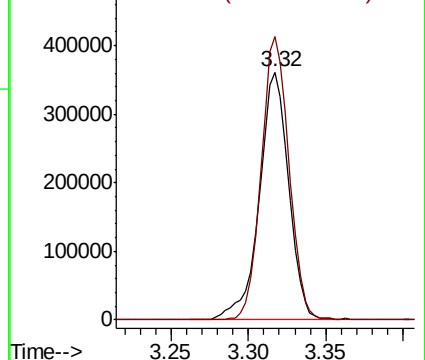
39 100

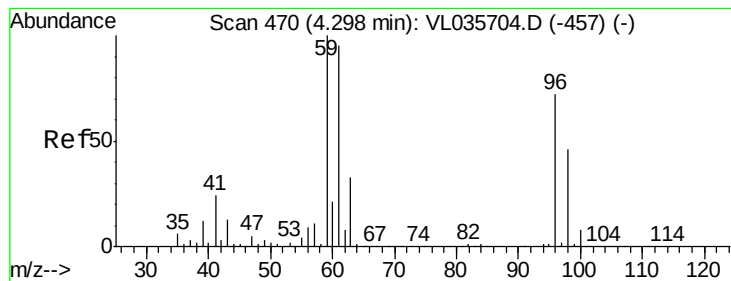
54 108.1 87.4 131.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 11.218 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 59 Resp: 1456015

Ion Ratio Lower Upper

59 100

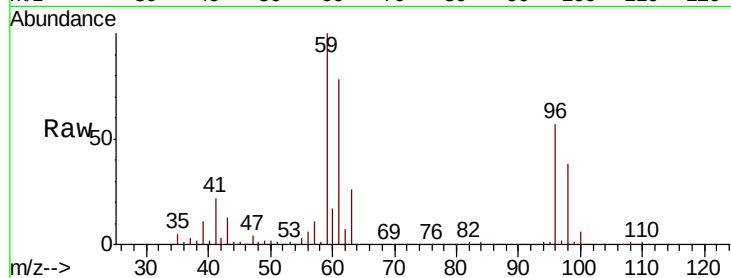
57 10.5 8.5 12.7

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

800000

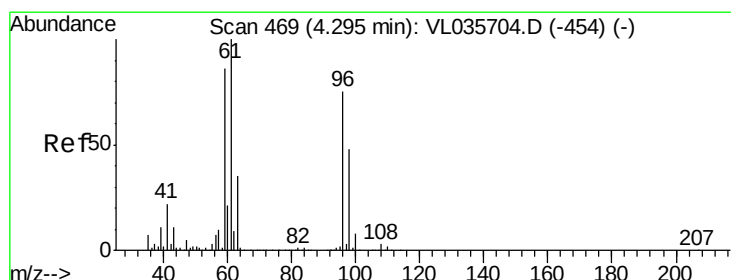
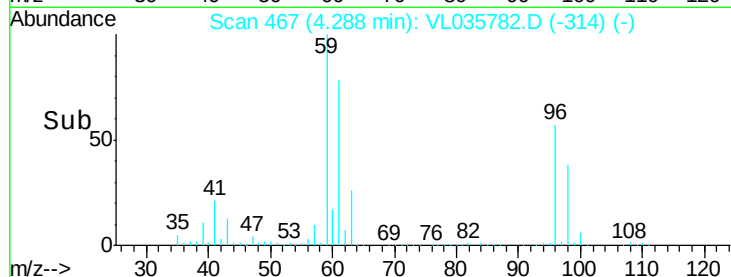
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.388 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

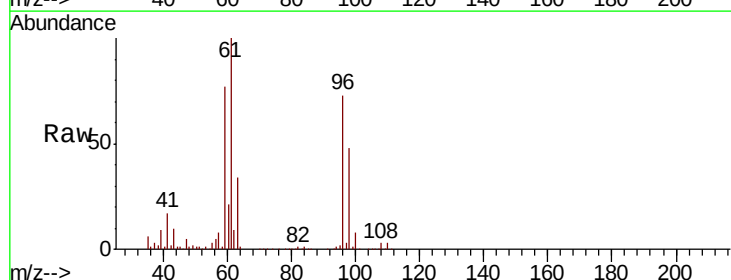
Tgt Ion: 96 Resp: 878955

Ion Ratio Lower Upper

96 100

61 137.7 106.7 160.1

98 66.0 50.8 76.2



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

4.28

1000000

800000

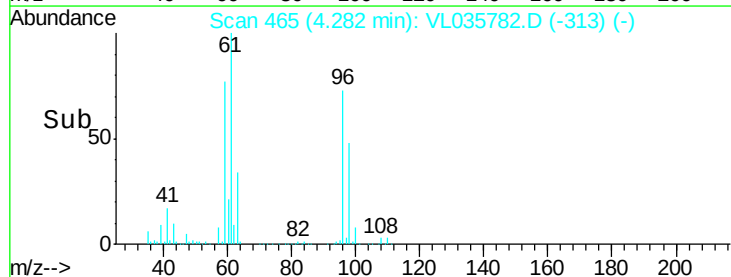
600000

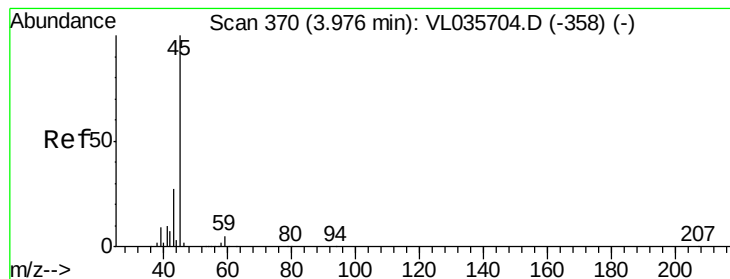
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 10.810 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 700643

Ion Ratio Lower Upper

45 100

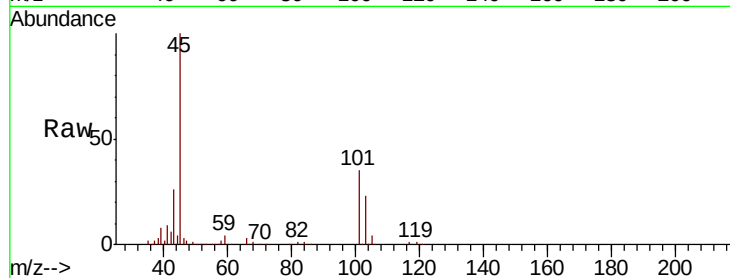
58 2.5 2.8 4.2#

Manual Integrations

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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

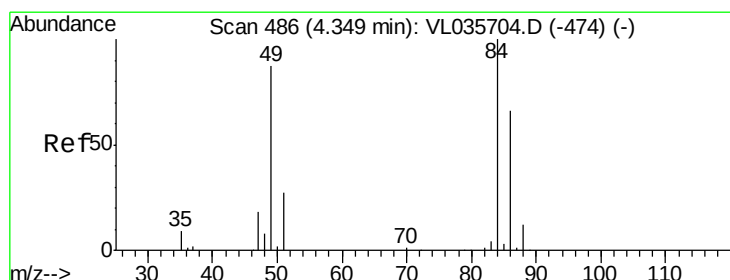
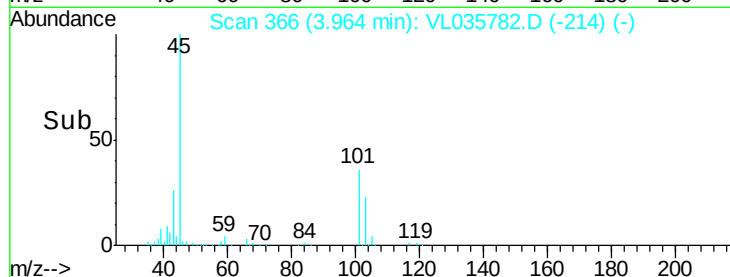
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.262 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Tgt Ion: 84 Resp: 723113

Ion Ratio Lower Upper

84 100

49 90.3 69.8 104.6

51 27.6 21.8 32.8

86 63.7 52.6 78.8

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

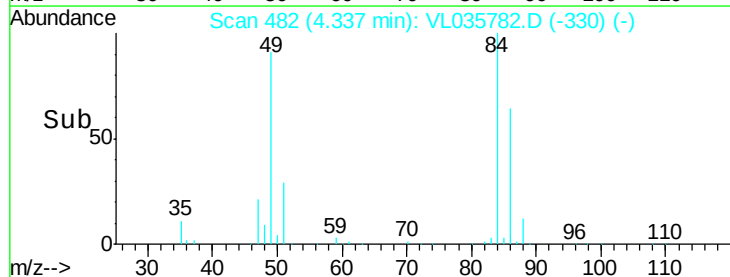
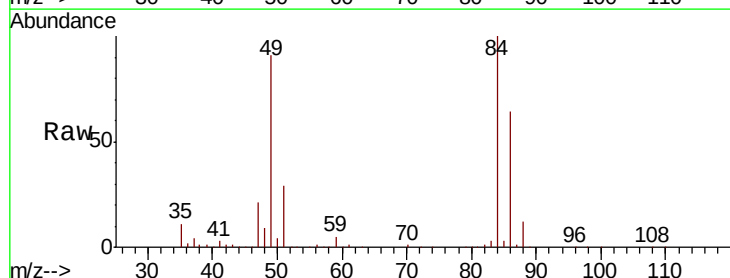
600000

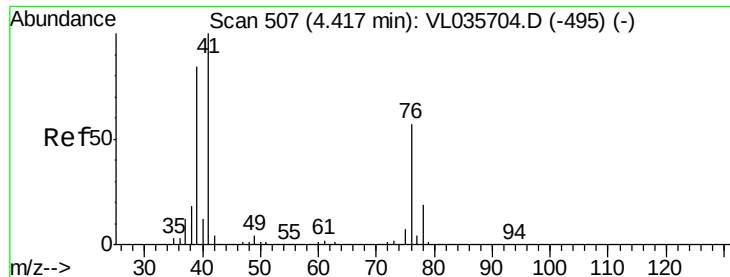
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 10.945 ppbv

RT: 4.40 min Scan# 503

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

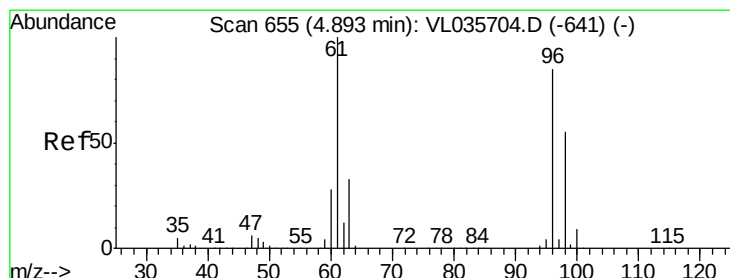
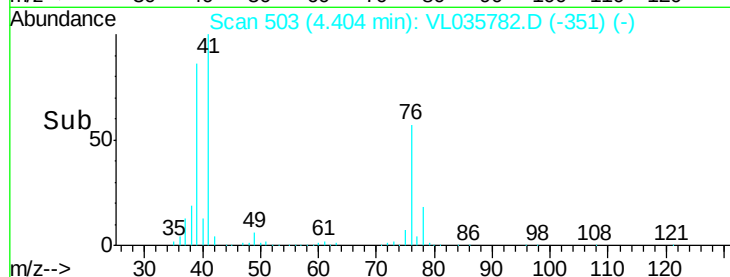
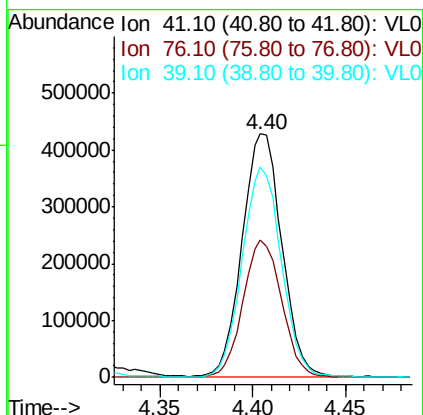
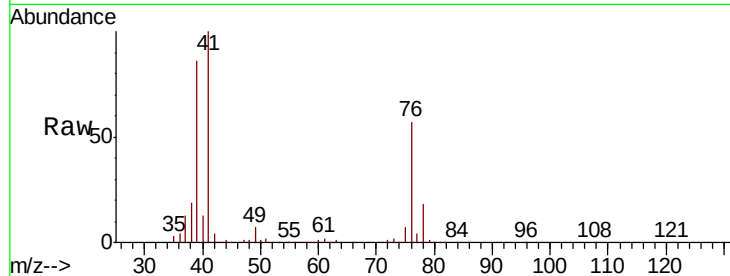
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	632143
Ion	Ratio	Lower	Upper
41	100		
76	55.5	44.8	67.2
39	86.3	68.4	102.6

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.186 ppbv

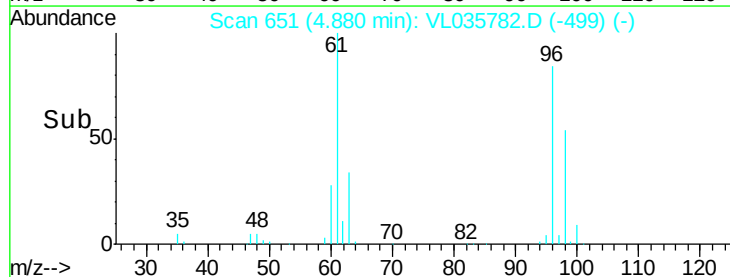
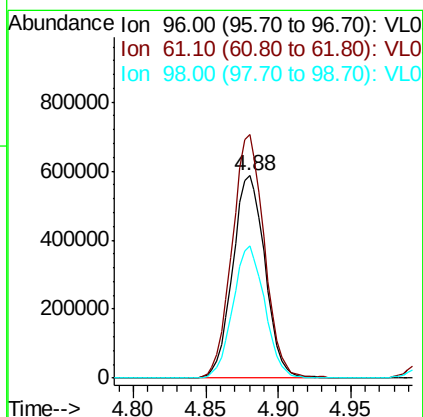
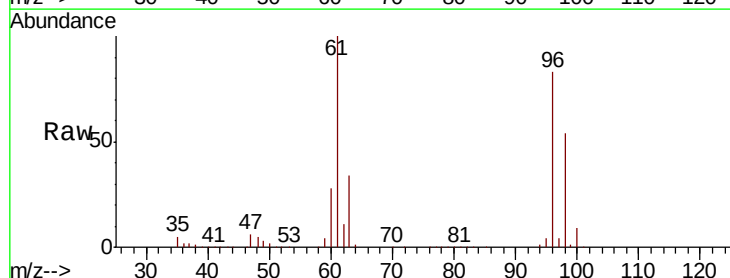
RT: 4.88 min Scan# 651

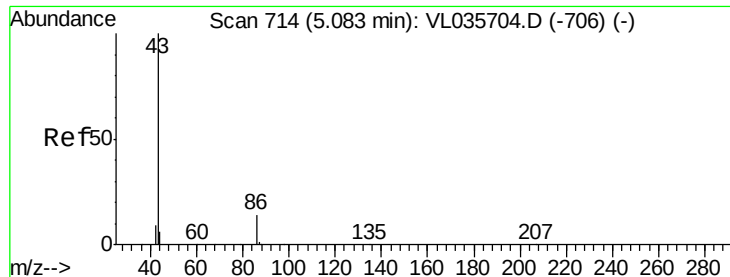
Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Tgt Ion:	96	Resp:	910559
Ion	Ratio	Lower	Upper
96	100		
61	120.3	93.7	140.5
98	65.2	51.2	76.8





#23

Vinyl Acetate

Concen: 11.554 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1686232

Ion Ratio Lower Upper

43 100

86 12.4 9.7 14.5

42 9.8 7.9 11.9

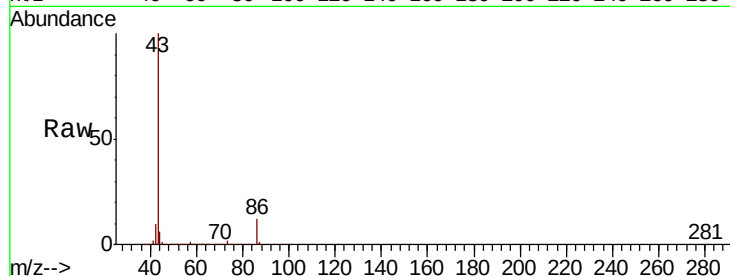
44 5.6 4.8 7.2

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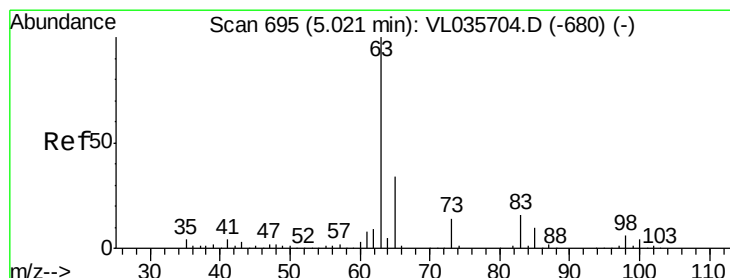
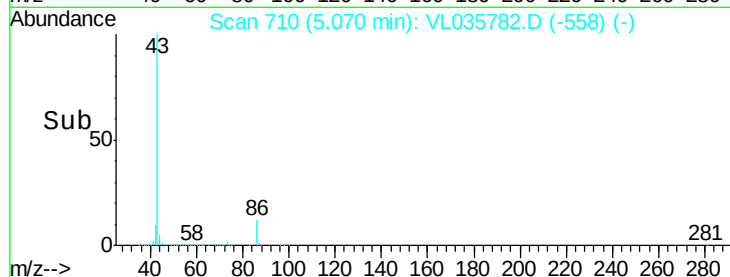
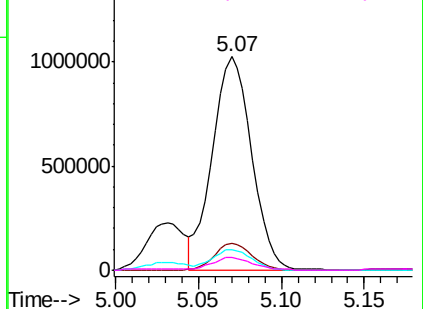


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.144 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

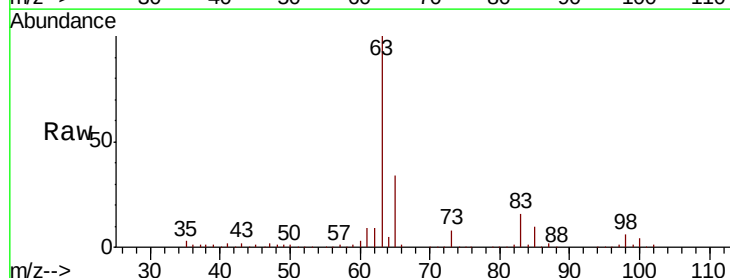
Tgt Ion: 63 Resp: 1612511

Ion Ratio Lower Upper

63 100

98 6.3 3.3 9.8

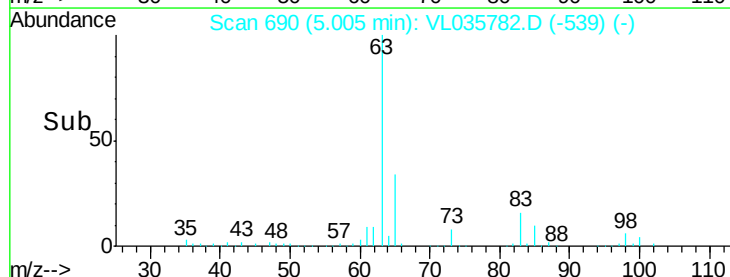
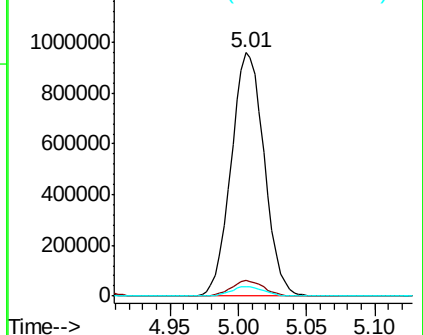
100 3.7 2.0 5.8

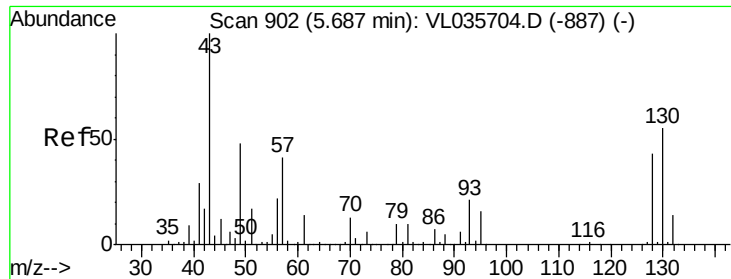


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





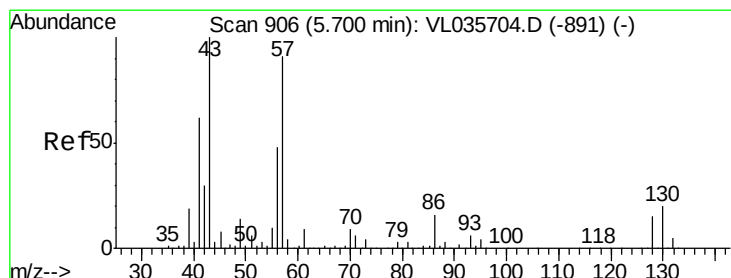
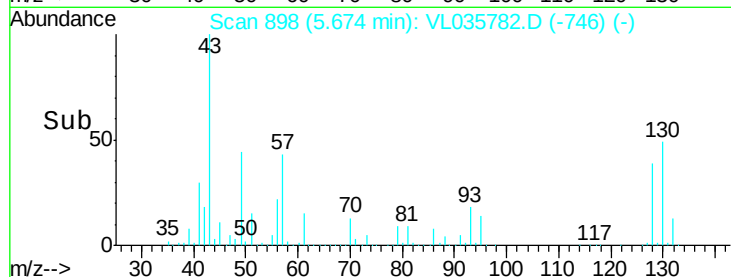
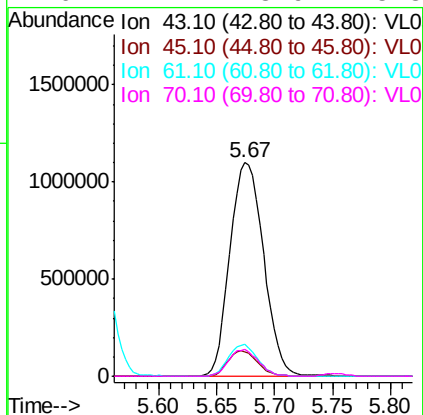
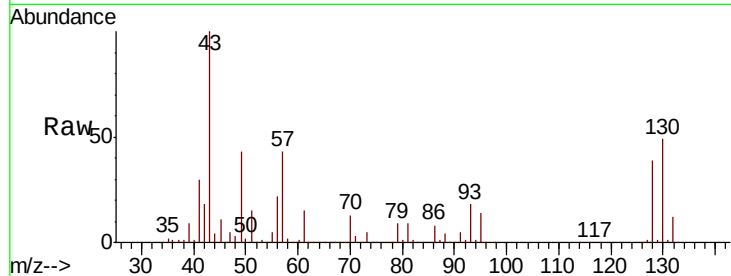
#25
Ethyl Acetate
Concen: 10.326 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	2213904
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.6	12.8
61	12.9	10.4	15.6
70	11.1	8.9	13.3

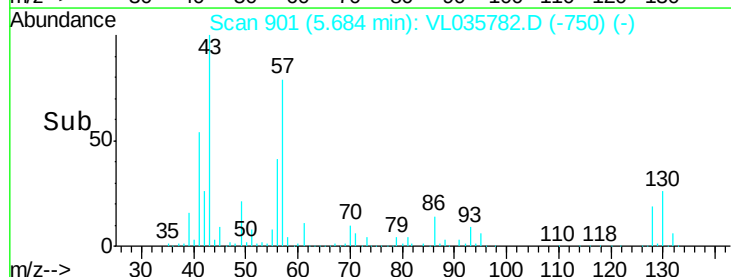
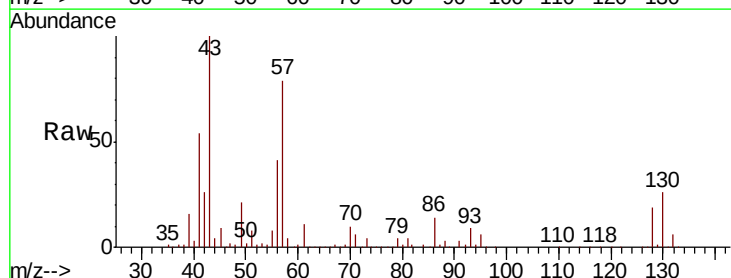
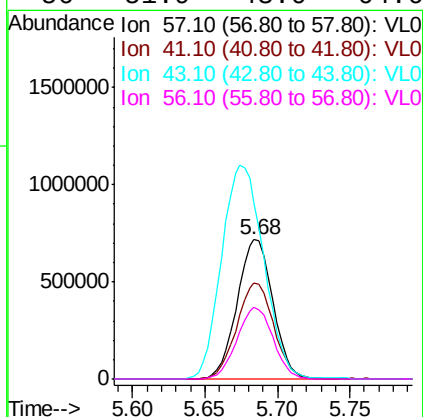
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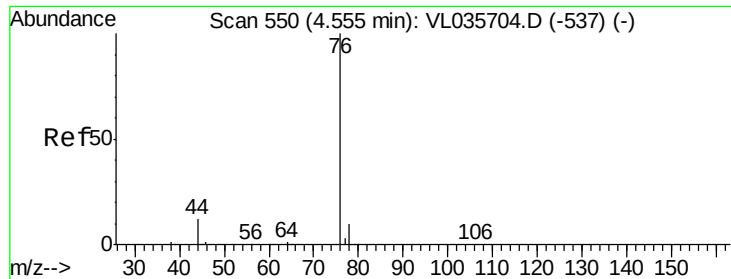
MMDadoda
10/19/2020 11:10:05 AM



#26
Hexane
Concen: 10.451 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion	57	Resp	1227870
Ion	Ratio	Lower	Upper
57	100		
41	72.3	57.9	86.9
43	180.9	143.8	215.6
56	51.9	43.0	64.6





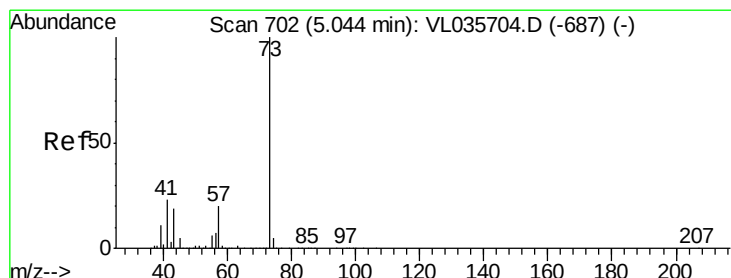
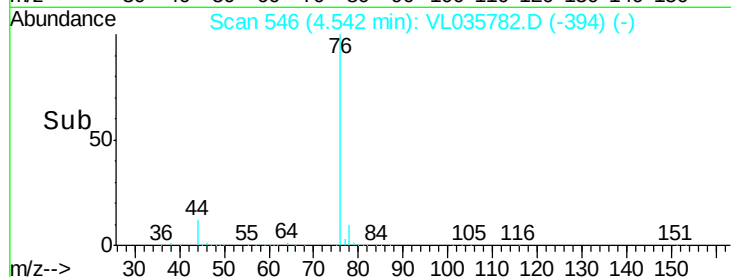
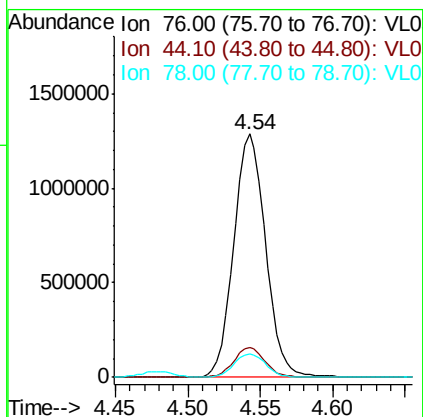
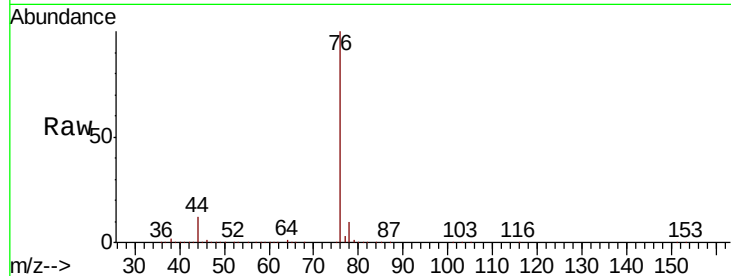
#27
Carbon Disulfide
Concen: 11.200 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	11.9	9.7	14.5
78	9.6	7.8	11.8

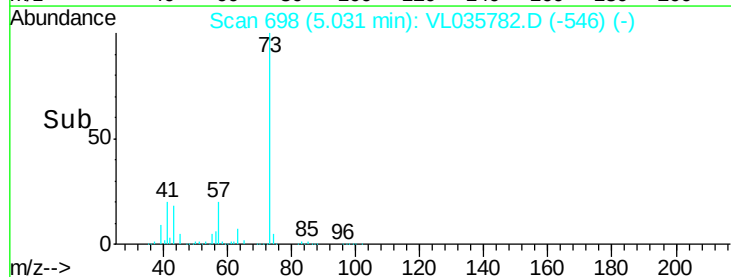
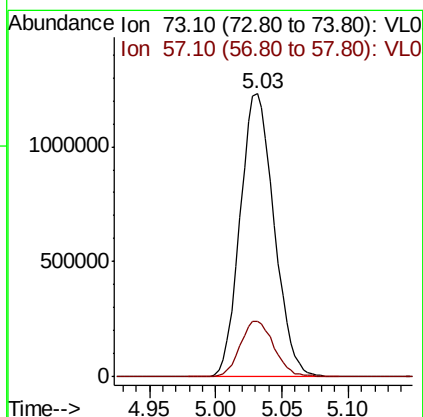
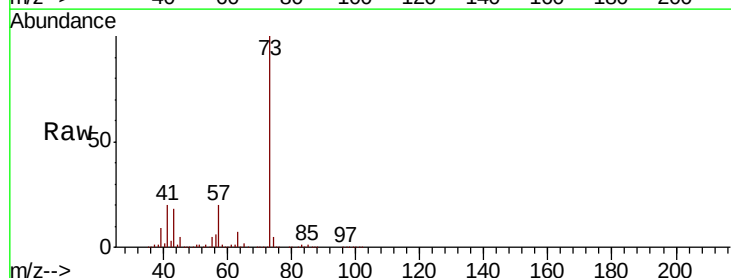
Manual Integrations
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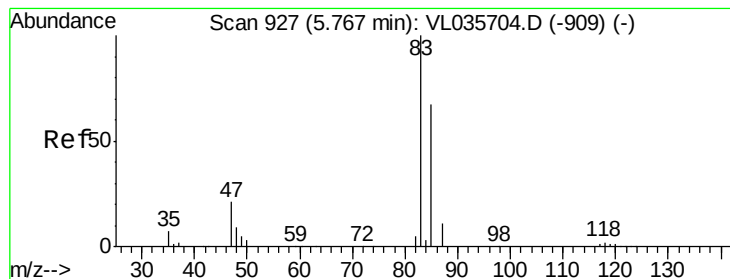
MMDadoda
10/19/2020 11:10:05 AM



#28
Methyl tert-Butyl Ether
Concen: 11.783 ppbv
RT: 5.03 min Scan# 698
Delta R.T. -0.01 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
73	100		
57	19.8	15.6	23.4





#29

Chloroform

Concen: 10.149 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2421491

Ion Ratio Lower Upper

83 100

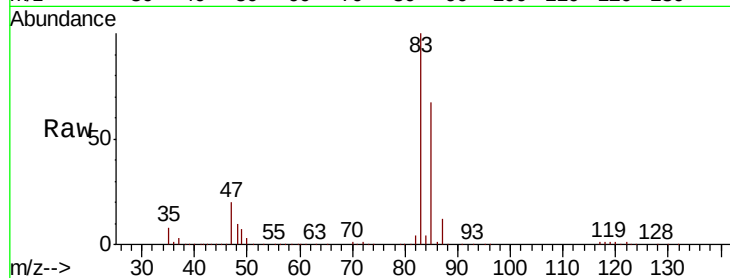
85 66.9 54.0 81.0

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

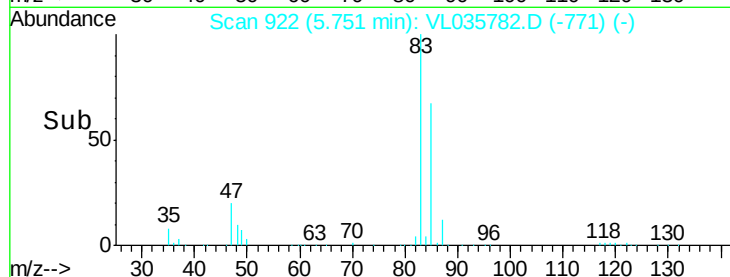
1500000

1000000

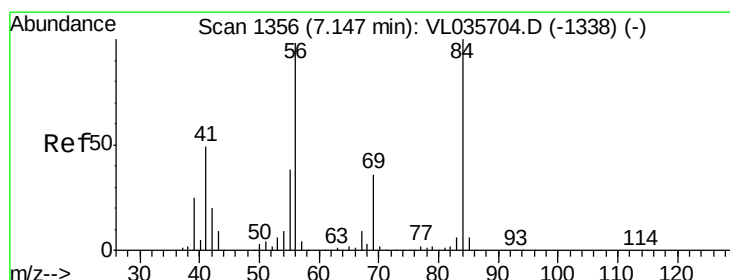
500000

0

5.65 5.70 5.75 5.80 5.85



Time-->



#30

Cyclohexane

Concen: 11.472 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

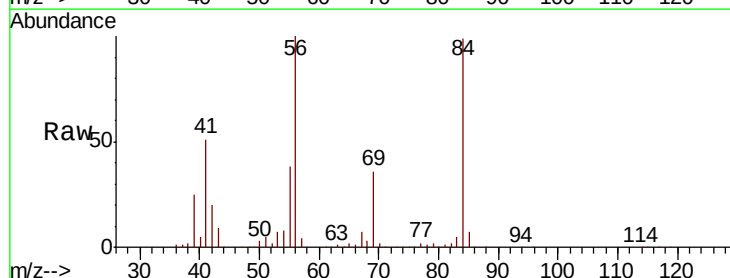
Tgt Ion: 84 Resp: 1329792

Ion Ratio Lower Upper

84 100

56 106.3 84.6 127.0

41 52.1 41.1 61.7



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

800000

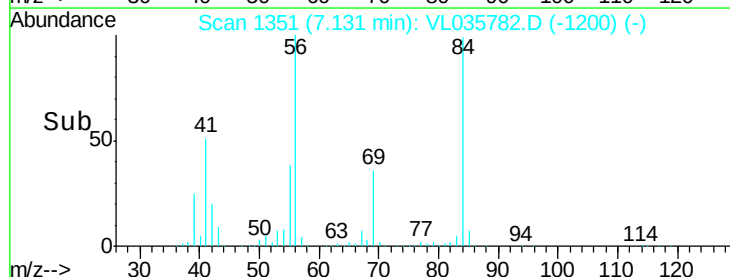
600000

400000

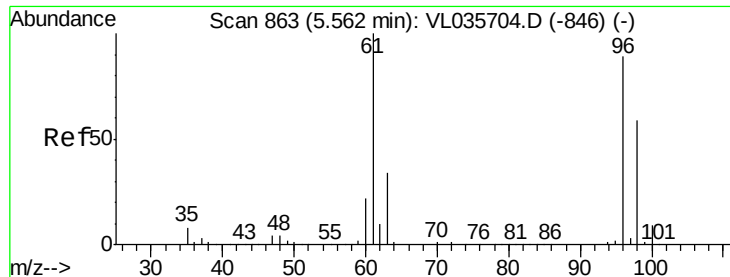
200000

0

7.05 7.10 7.15 7.20



Time-->



#31

cis-1,2-Dichloroethene

Concen: 11.551 ppbv

RT: 5.55 min Scan# 858

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1310010

Ion Ratio Lower Upper

61 100

96 87.3 71.4 107.2

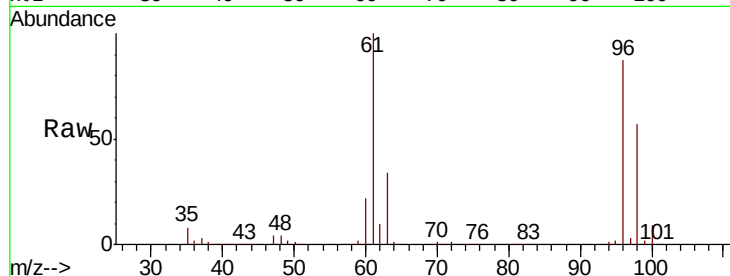
98 57.1 47.4 71.2

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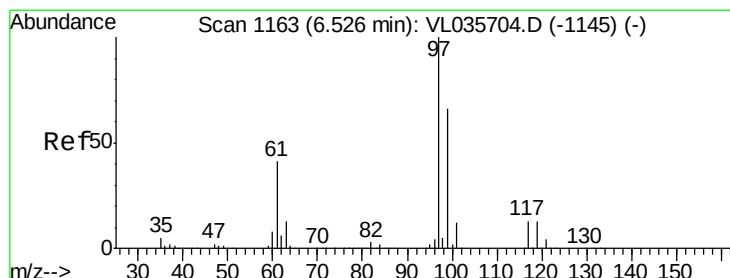
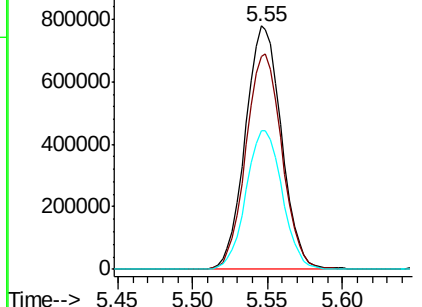
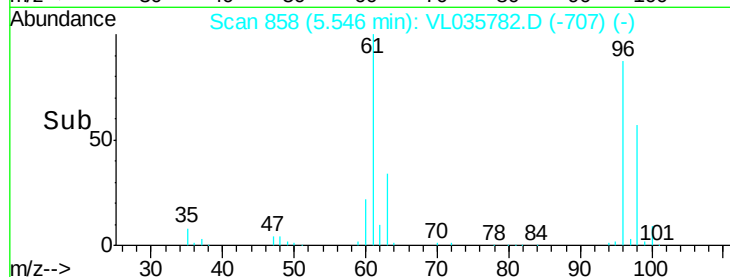
10/19/2020 11:10:05 AM



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 11.350 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

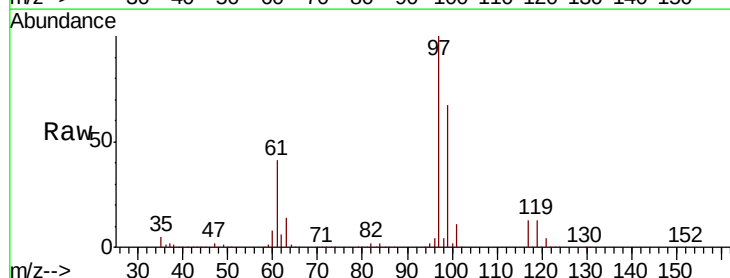
Tgt Ion: 97 Resp: 2387066

Ion Ratio Lower Upper

97 100

99 66.2 52.7 79.1

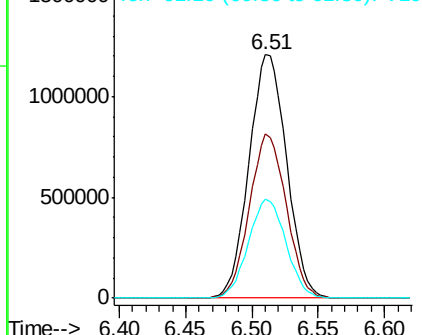
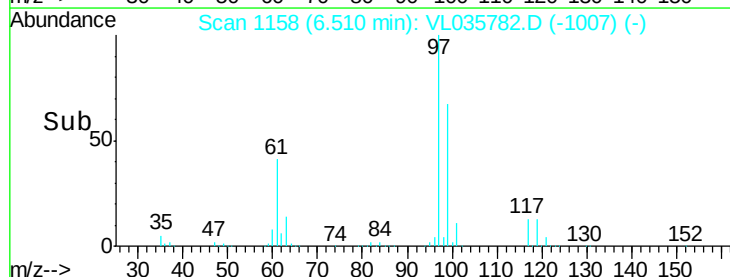
61 40.6 32.7 49.1

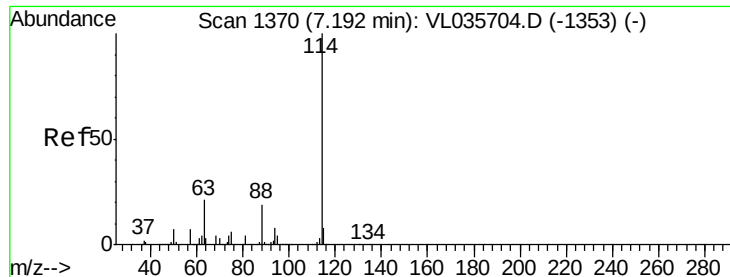


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





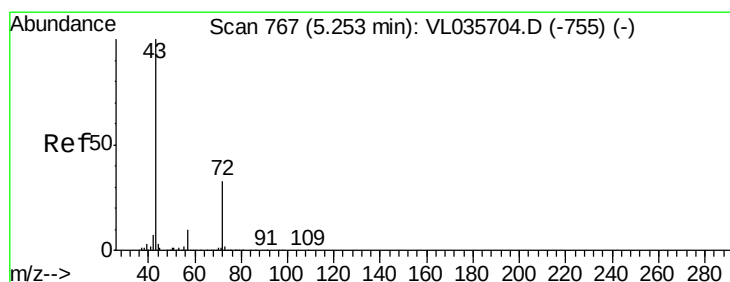
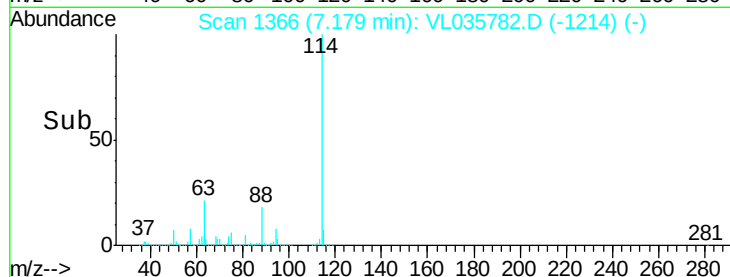
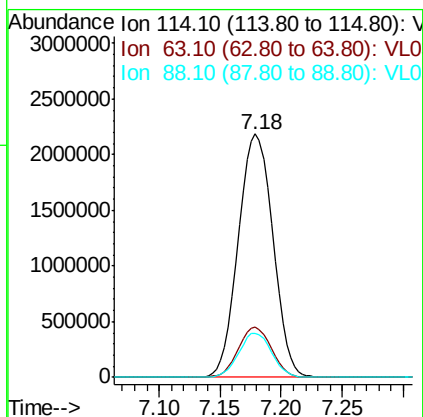
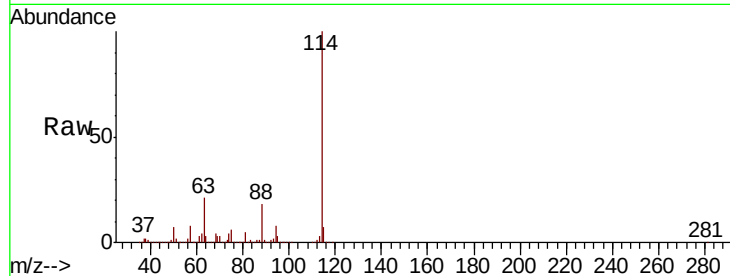
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 4292246
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.1 24.1
 88 17.3 14.1 21.1

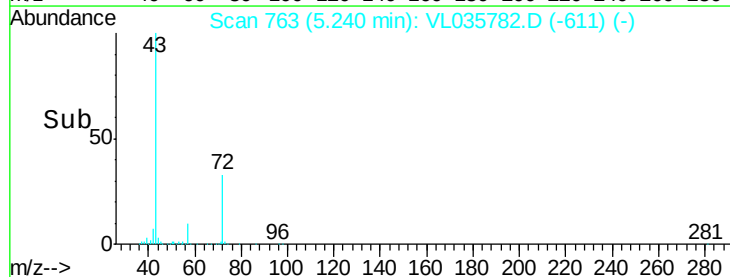
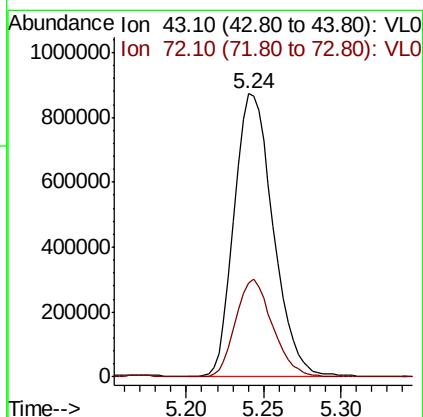
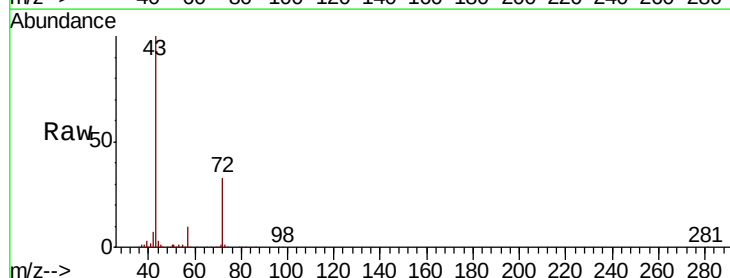
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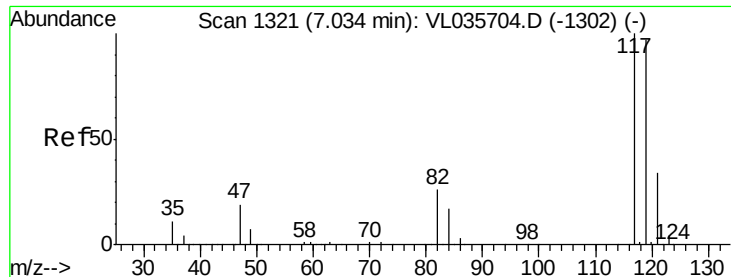
MMDadoda
 10/19/2020 11:10:05 AM



#34
 2-Butanone
 Concen: 10.762 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion: 43 Resp: 1527892
 Ion Ratio Lower Upper
 43 100
 72 33.0 26.1 39.1





#35

Carbon Tetrachloride

Concen: 10.823 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 117 Resp: 2422150

Ion Ratio Lower Upper

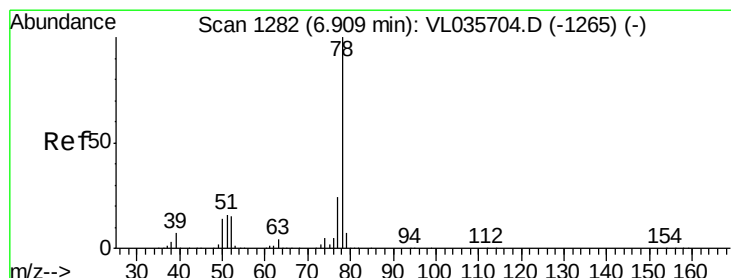
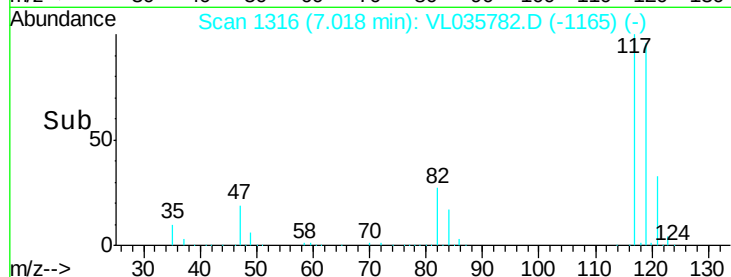
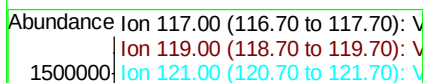
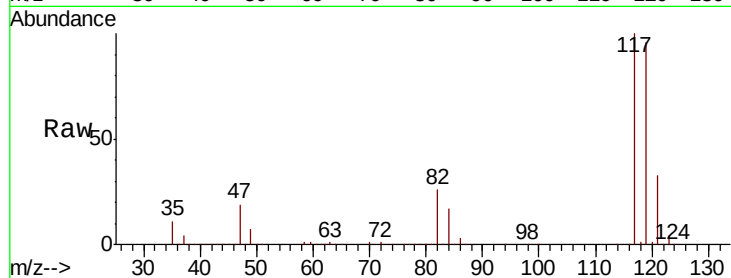
117 100

119 95.5 77.7 116.5

121 33.1 26.9 40.3

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#36

Benzene

Concen: 11.003 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

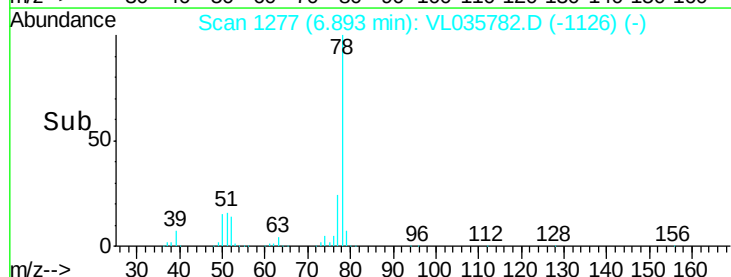
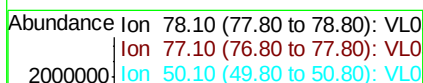
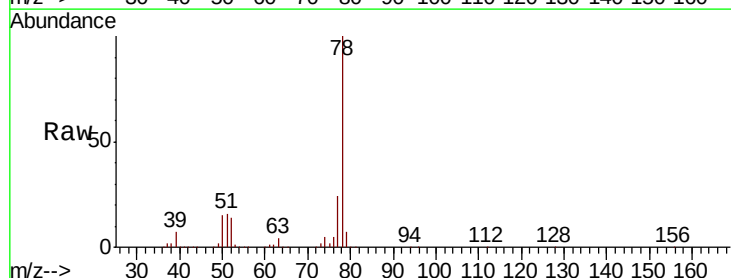
Tgt Ion: 78 Resp: 3077360

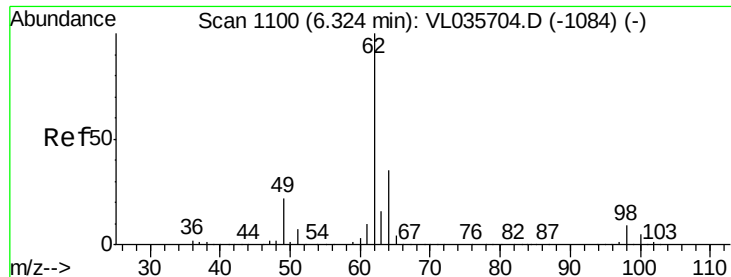
Ion Ratio Lower Upper

78 100

77 23.9 19.3 28.9

50 14.5 11.6 17.4





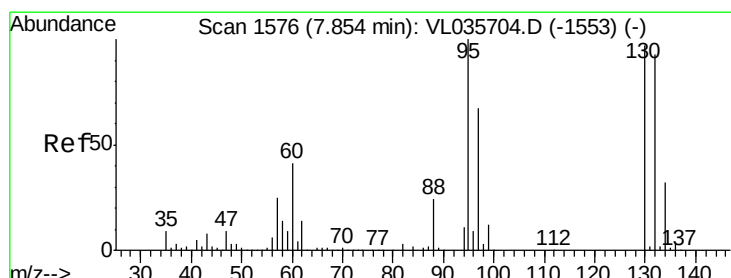
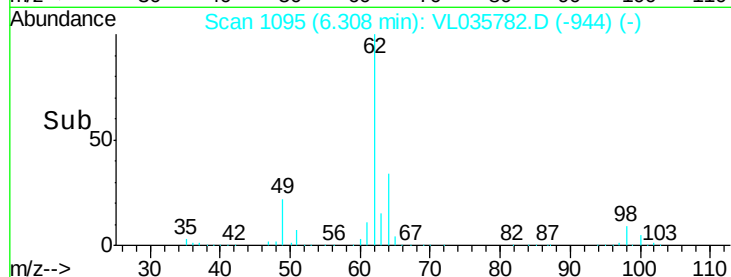
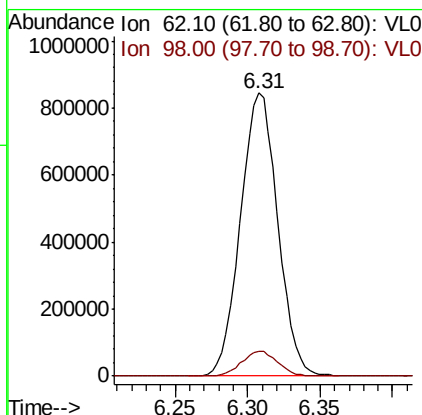
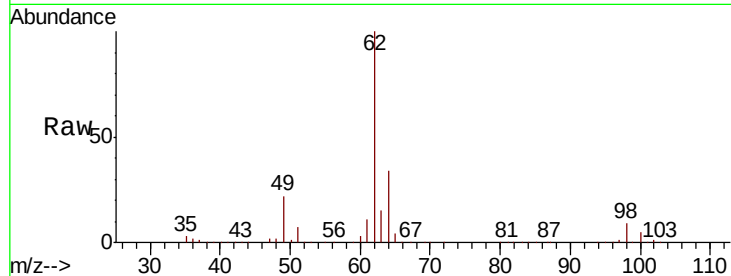
#37
 1,2-Dichloroethane
 Concen: 10.379 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1512893
 Ion Ratio Lower Upper
 62 100
 98 8.6 6.9 10.3

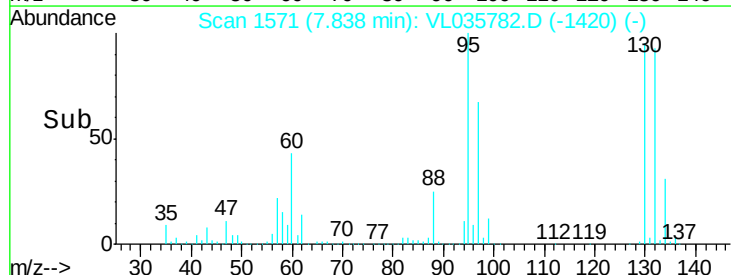
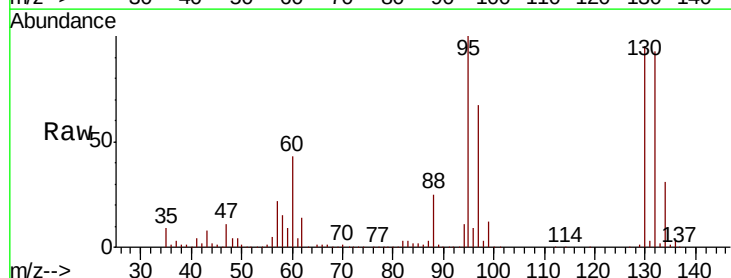
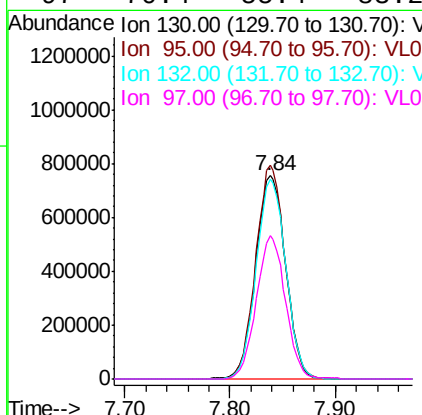
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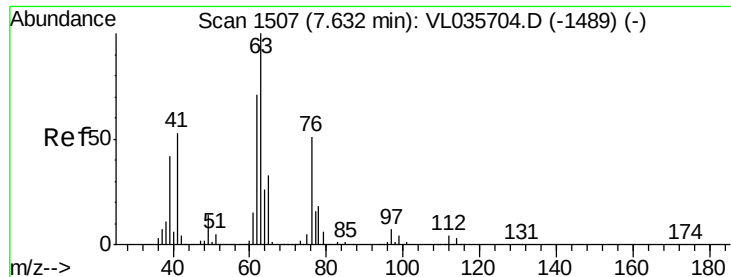
MMDadoda
 10/19/2020 11:10:05 AM



#38
 Trichloroethene
 Concen: 10.775 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion: 130 Resp: 1503359
 Ion Ratio Lower Upper
 130 100
 95 105.0 82.4 123.6
 132 98.2 76.8 115.2
 97 70.4 55.4 83.2





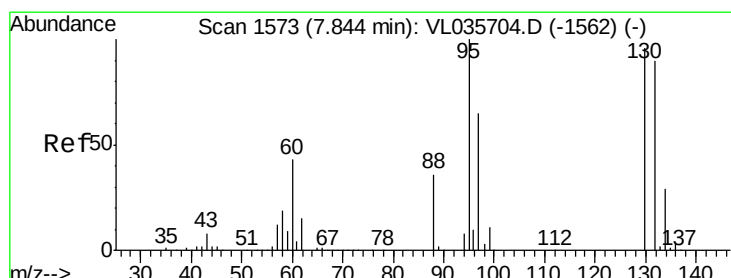
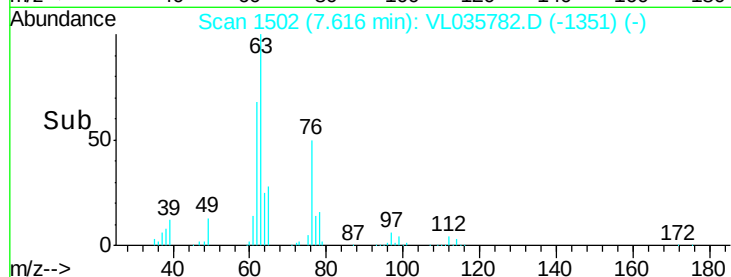
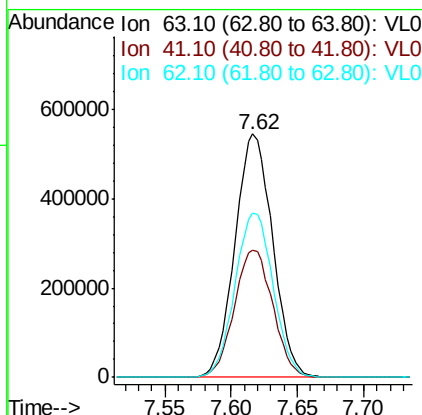
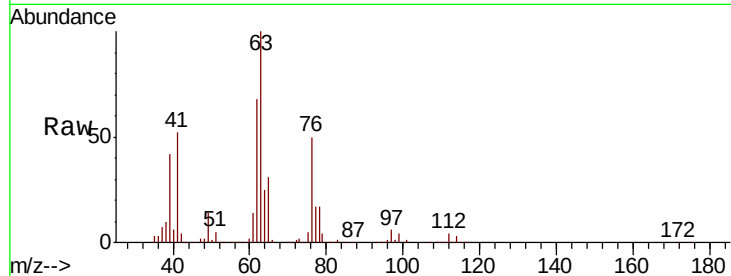
#39
 1,2-Dichloropropane
 Concen: 10.594 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	52.1	42.6	63.8
62	67.6	56.5	84.7

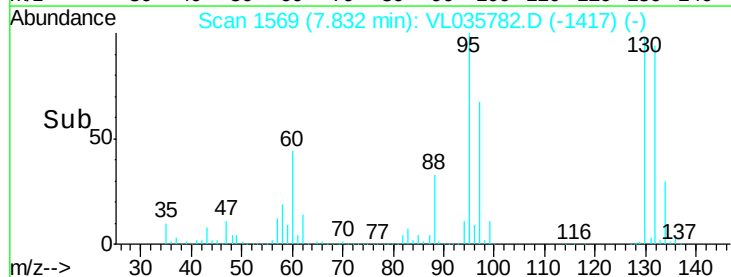
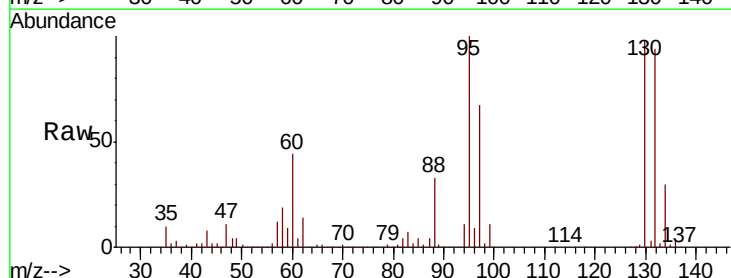
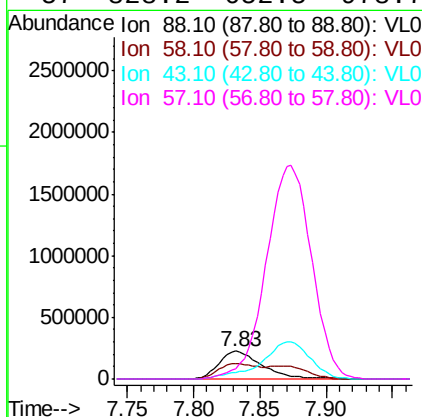
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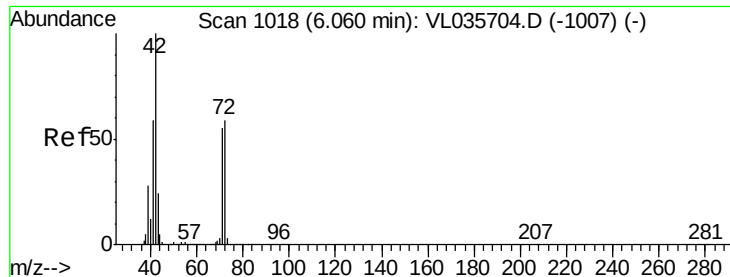
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#40
 1,4-Dioxane
 Concen: 10.814 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
88	100		
58	97.8	76.2	114.4
43	155.6	123.4	185.2
57	828.2	652.5	978.7





#41

Tetrahydrofuran

Concen: 12.119 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

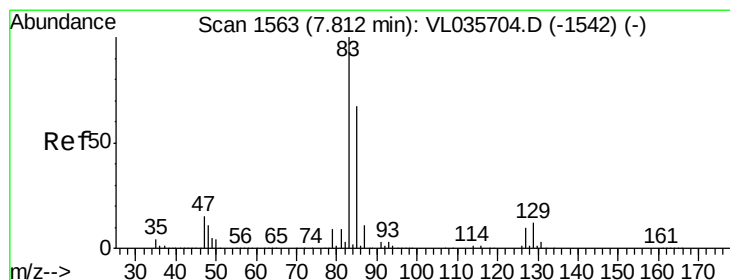
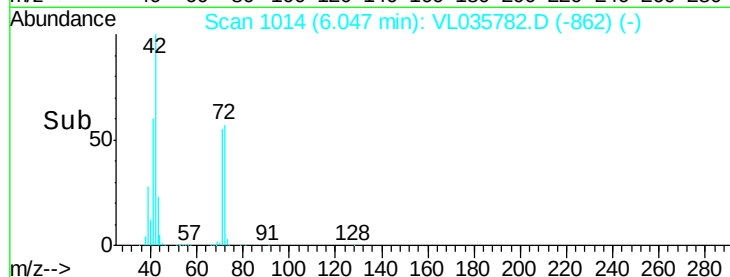
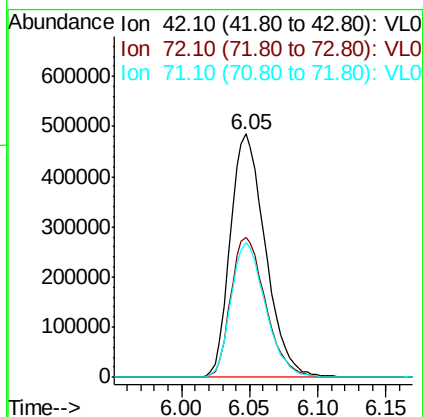
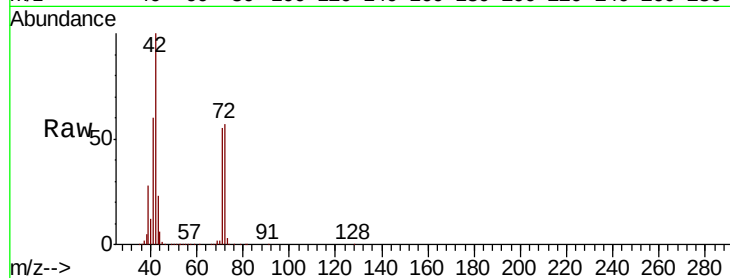
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	57.5	46.2	69.4
71	54.7	44.2	66.4

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#42

Bromodichloromethane

Concen: 10.827 ppbv

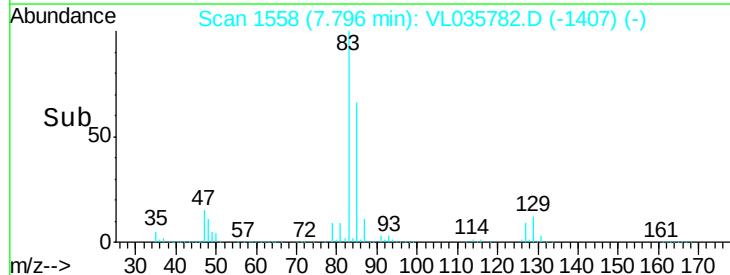
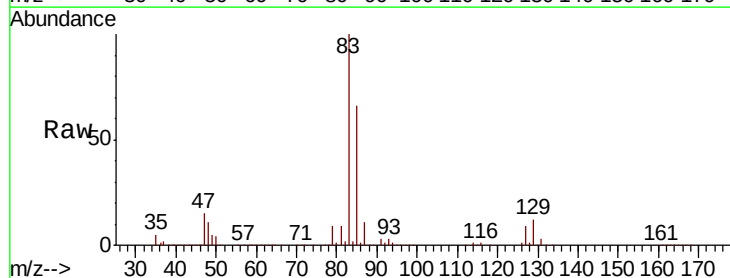
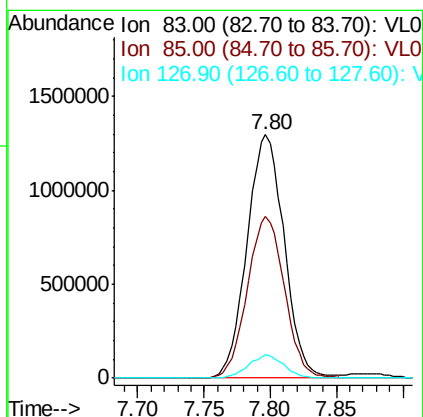
RT: 7.80 min Scan# 1558

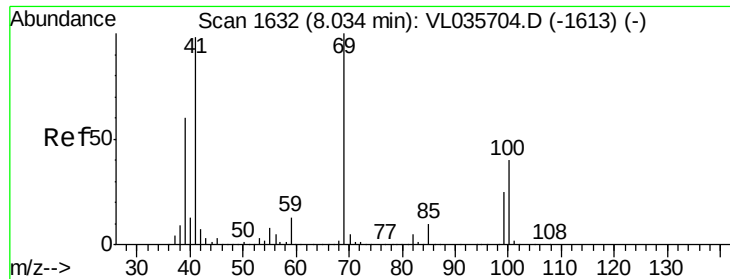
Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	53.4	80.0
127	9.4	7.8	11.6





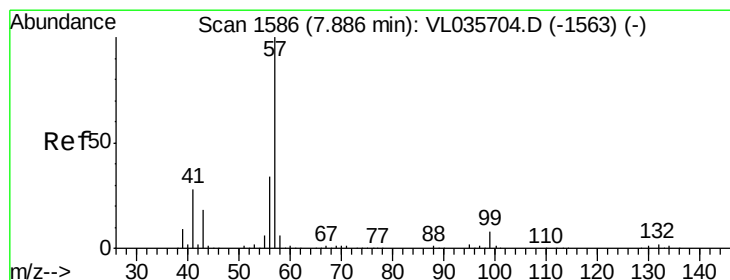
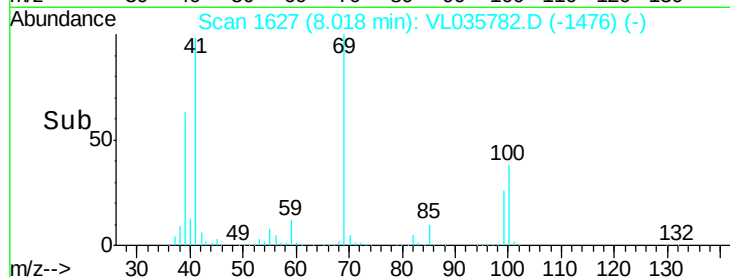
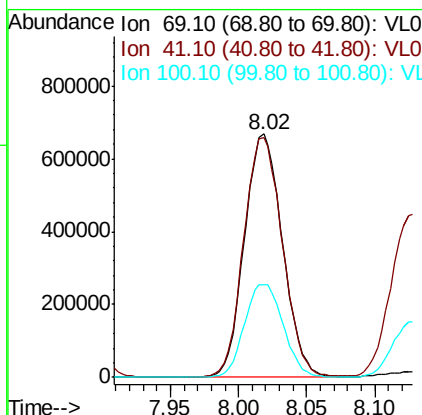
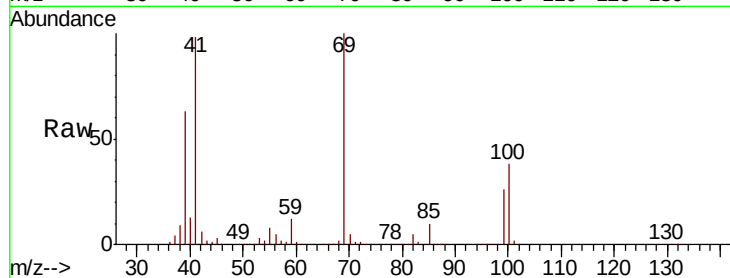
#43
Methyl Methacrylate
Concen: 11.646 ppbv
RT: 8.02 min Scan# 1627
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1295379
Ion Ratio Lower Upper
69 100
41 100.3 79.8 119.6
100 39.1 30.6 46.0

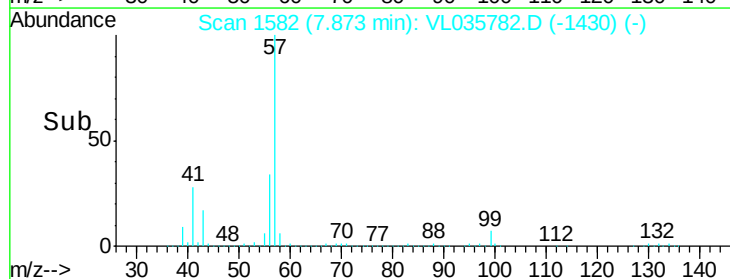
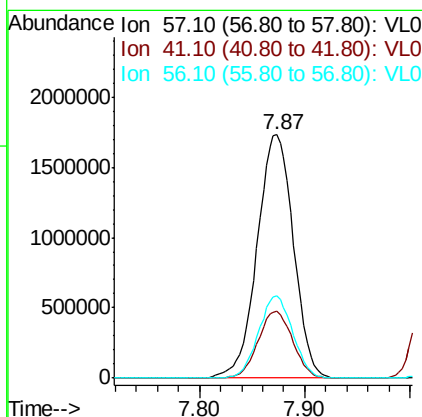
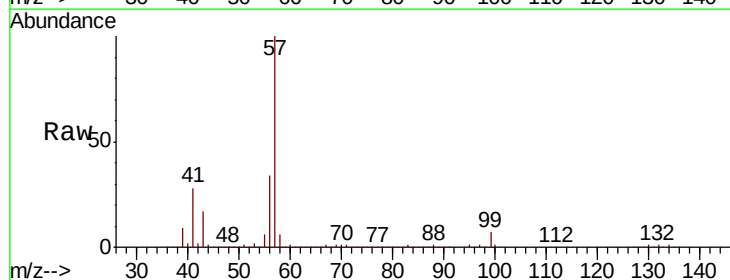
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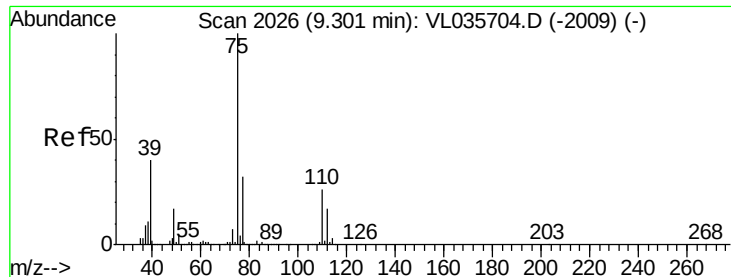
MMDadoda
10/19/2020 11:10:05 AM



#44
2,2,4-Trimethylpentane
Concen: 10.335 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.01 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion: 57 Resp: 4147902
Ion Ratio Lower Upper
57 100
41 26.2 21.2 31.8
56 31.8 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 13.050 ppbv

RT: 9.29 min Scan# 2021

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 1465565

Ion Ratio Lower Upper

75 100

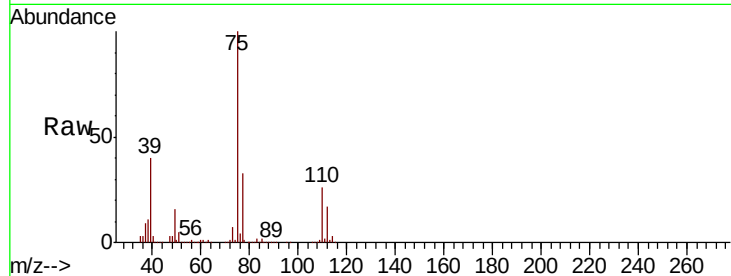
77 33.2 25.9 38.9

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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

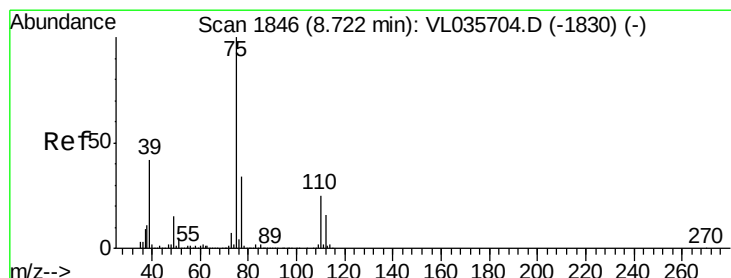
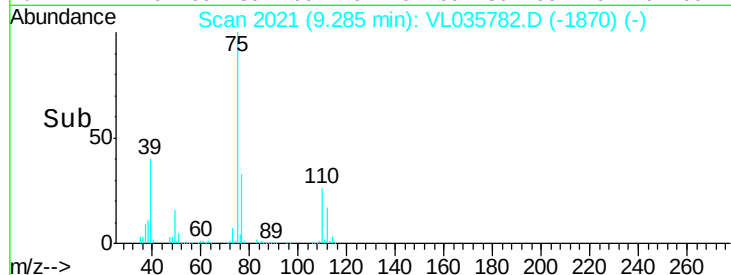
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.607 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

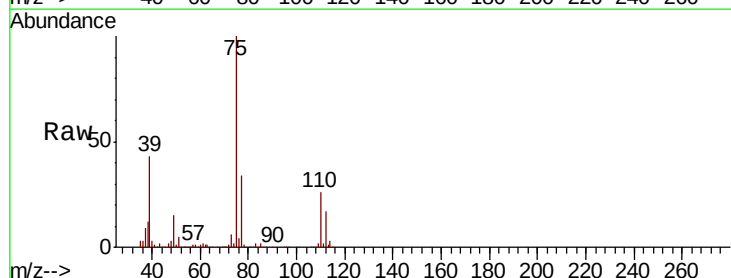
Tgt Ion: 75 Resp: 1745182

Ion Ratio Lower Upper

75 100

39 43.3 33.9 50.9

77 33.5 27.4 41.0



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

1200000

1000000

800000

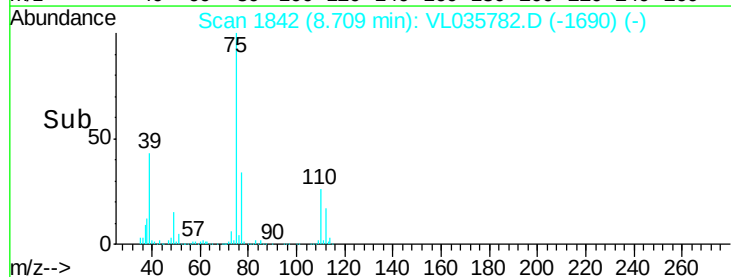
600000

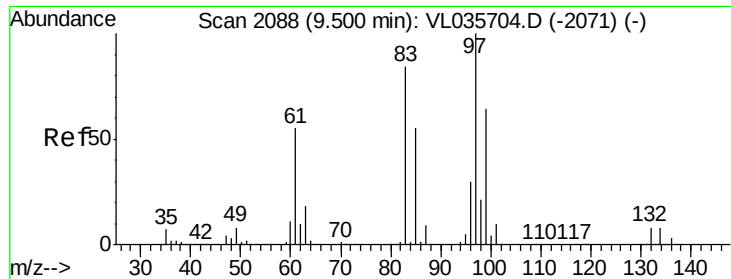
400000

200000

0

Time-->





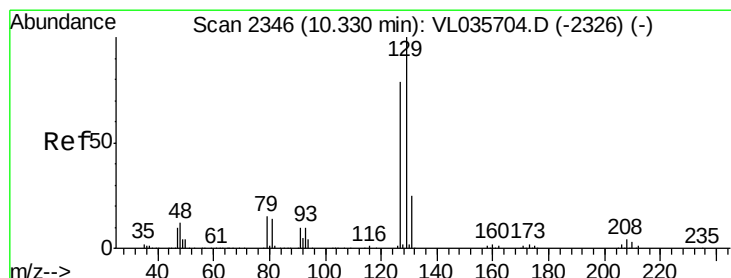
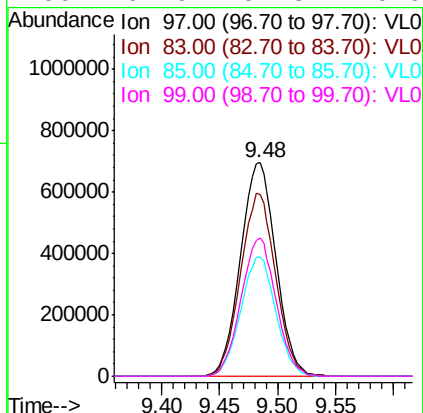
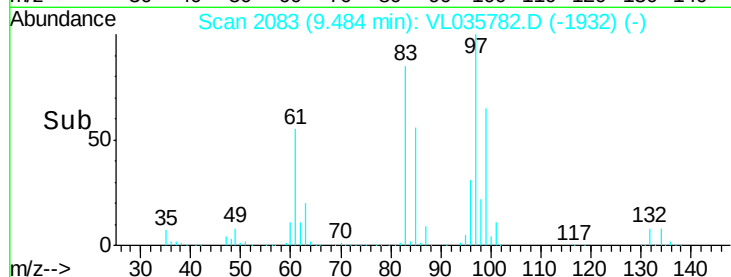
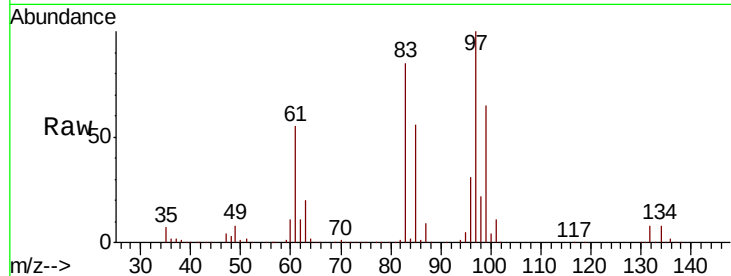
#47
 1,1,2-Trichloroethane
 Concen: 10.182 ppbv
 RT: 9.48 min Scan# 2083
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	97	Resp:	1478447
Ion	Ratio	Lower	Upper
97	100		
83	85.3	67.1	100.7
85	55.8	43.9	65.9
99	64.9	51.3	76.9

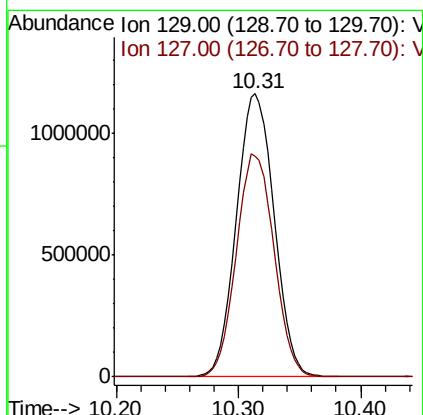
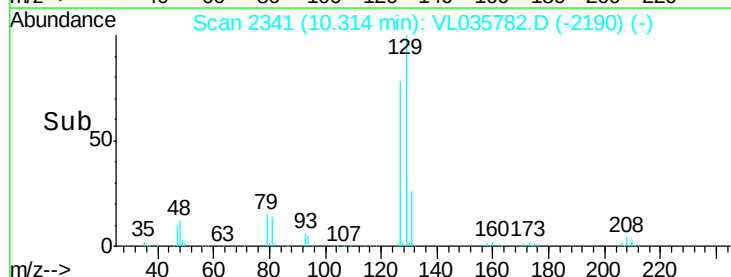
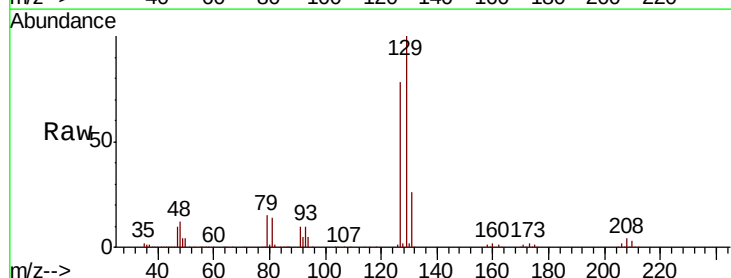
Manual Integrations
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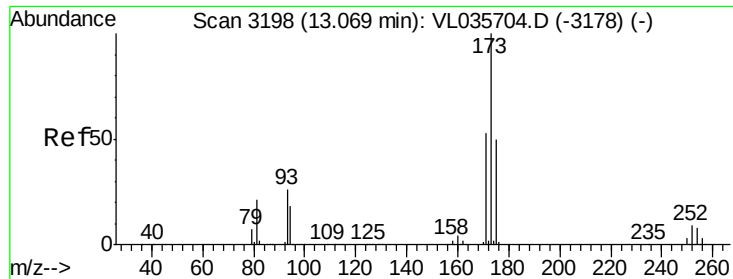
MMDadoda
 10/19/2020 11:10:05 AM



#48
 Dibromochloromethane
 Concen: 11.256 ppbv
 RT: 10.31 min Scan# 2341
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion:	129	Resp:	2487554
Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.4	118.1





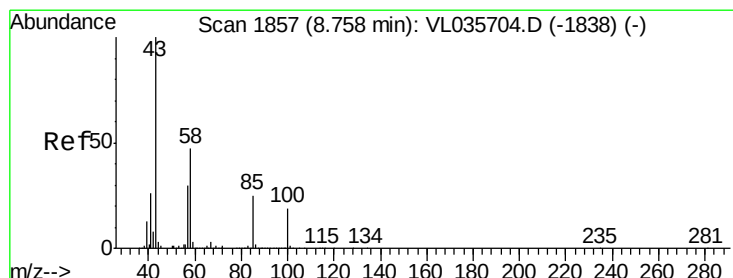
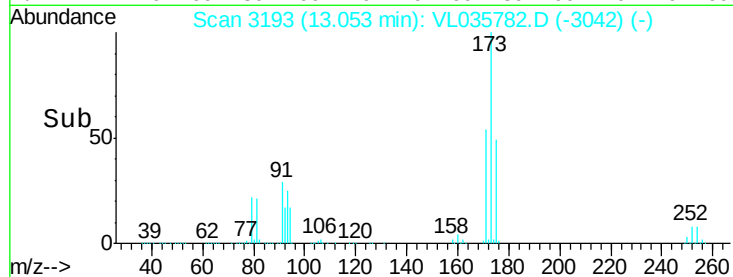
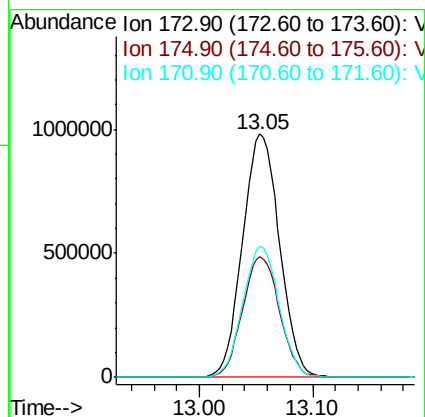
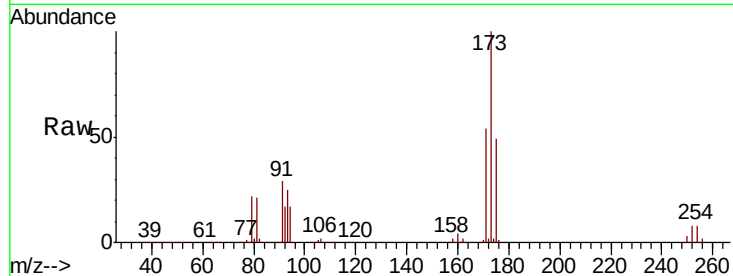
#49
Bromoform
Concen: 11.946 ppbv
RT: 13.05 min Scan# 3193
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 2240023
Ion Ratio Lower Upper
173 100
175 49.6 39.8 59.6
171 53.0 42.8 64.2

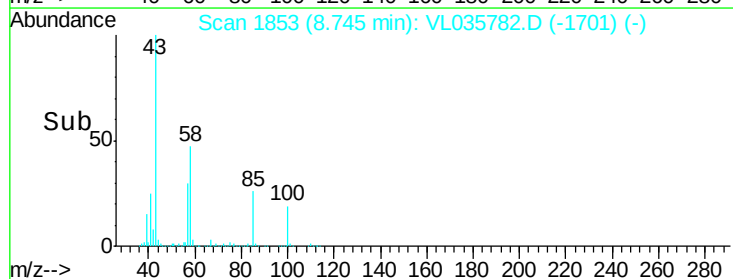
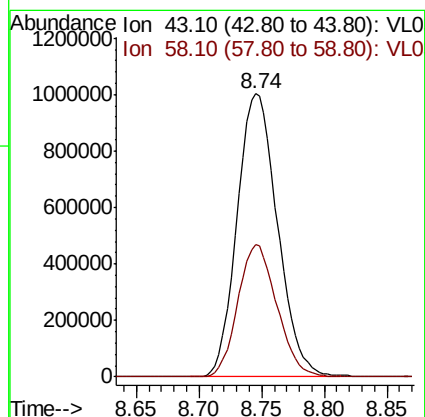
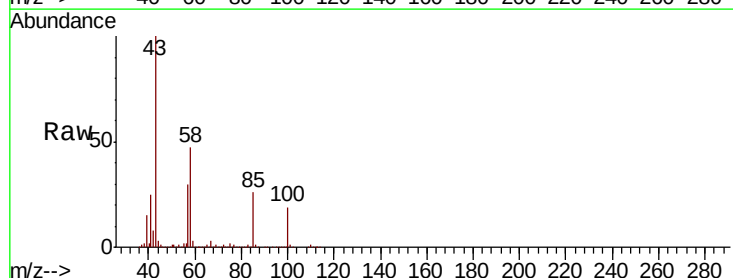
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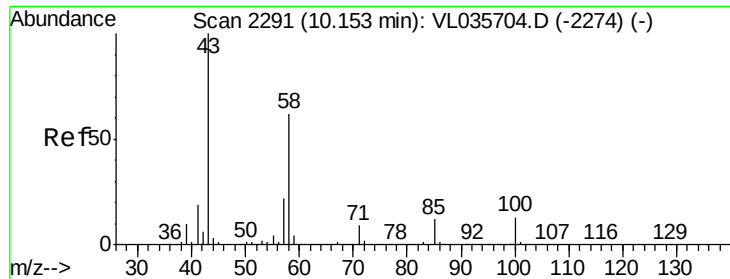
MMDadoda
10/19/2020 11:10:05 AM



#50
4-Methyl-2-Pentanone
Concen: 10.804 ppbv
RT: 8.74 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion: 43 Resp: 2240285
Ion Ratio Lower Upper
43 100
58 45.4 36.6 54.8





#51

2-Hexanone

Concen: 11.307 ppbv

RT: 10.14 min Scan# 2287

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1888999

Ion Ratio Lower Upper

43 100

58 60.9 48.7 73.1

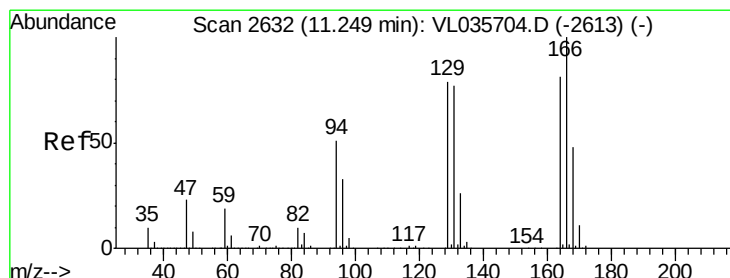
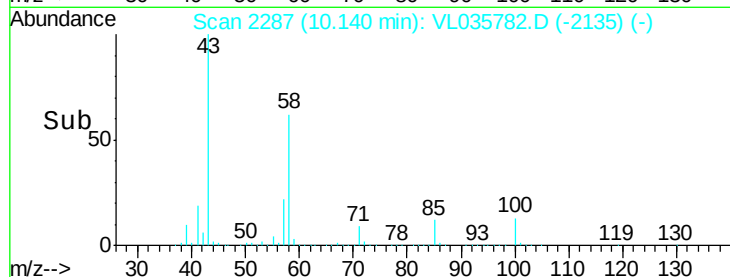
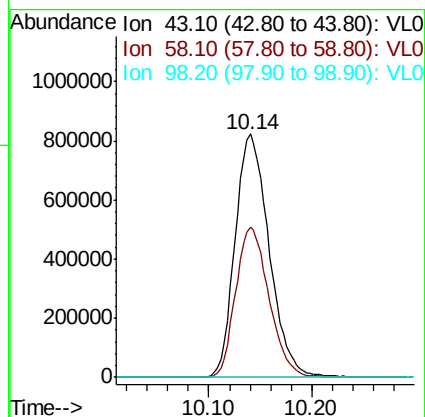
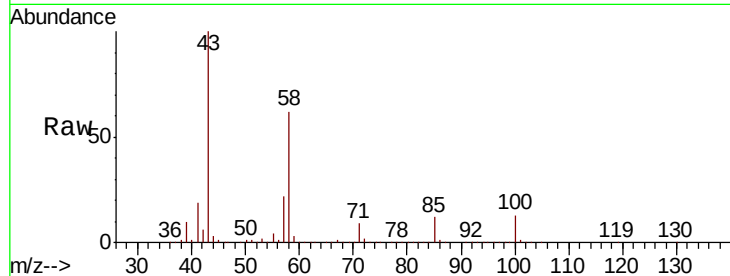
98 0.6 0.7 1.1#

Manual Integrations

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MMDadoda

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#52

Tetrachloroethene

Concen: 10.745 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Tgt Ion: 164 Resp: 1445185

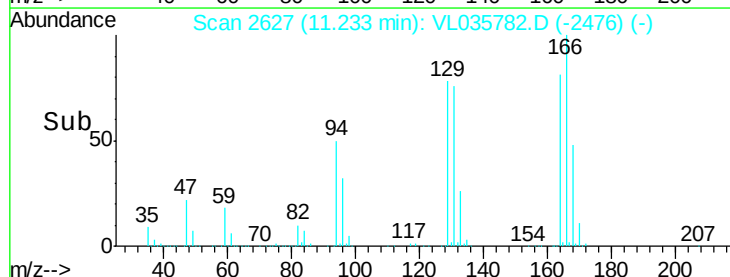
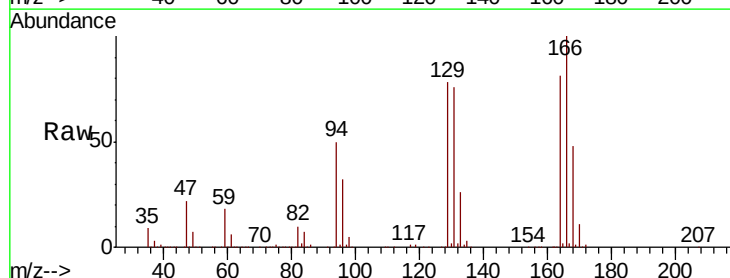
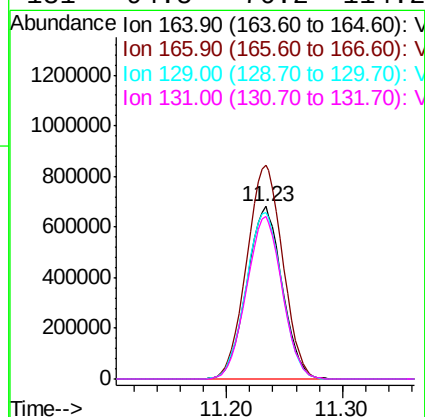
Ion Ratio Lower Upper

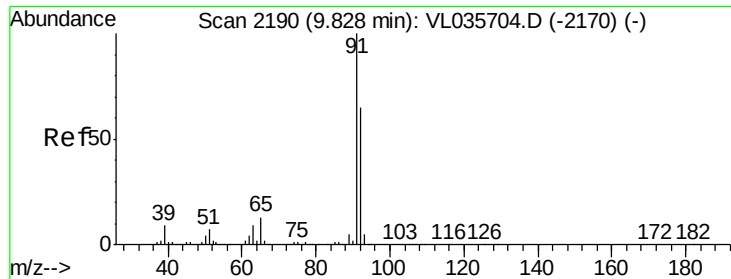
164 100

166 123.7 98.7 148.1

129 96.5 78.4 117.6

131 94.5 76.2 114.2





#53

Toluene

Concen: 11.649 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3841920

Ion Ratio Lower Upper

91 100

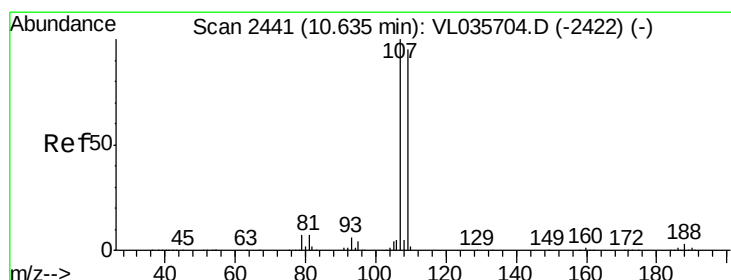
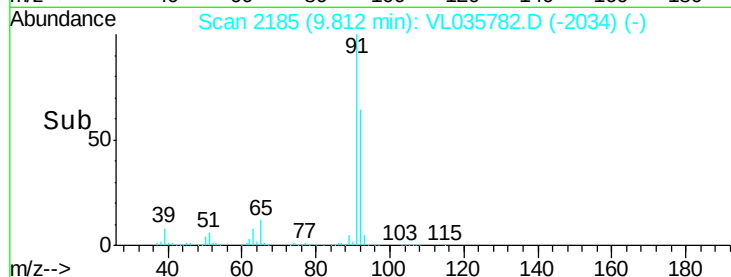
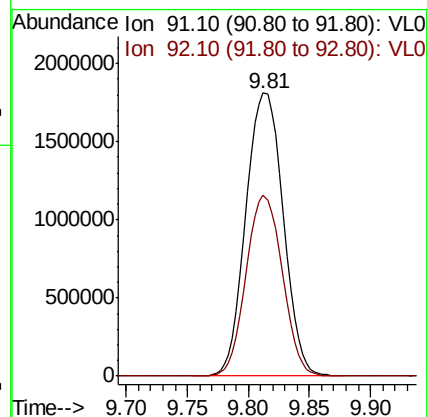
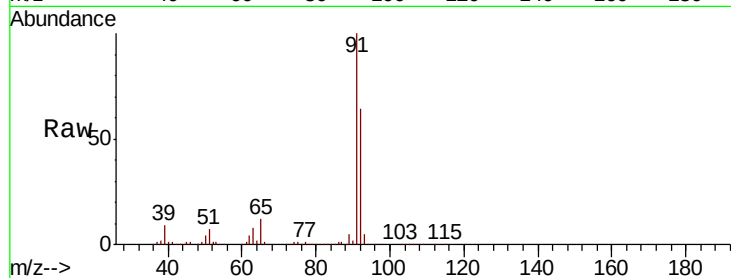
92 62.1 50.0 75.0

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#54

1,2-Dibromoethane

Concen: 10.702 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.02 min

Lab File: VL035782.D

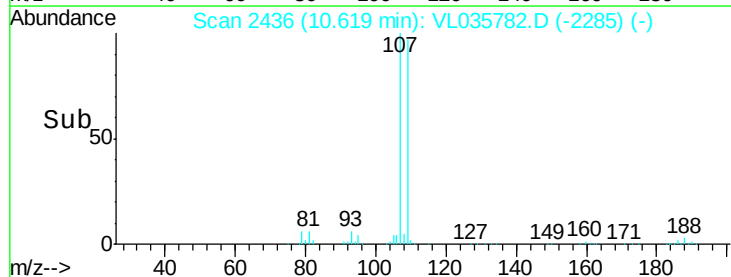
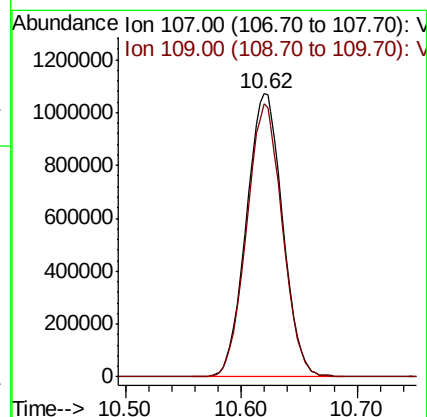
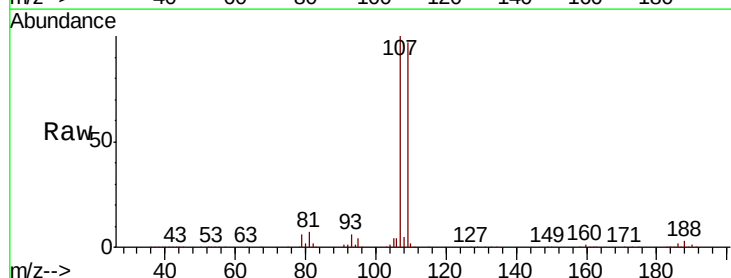
Acq: 16 Oct 2020 11:05

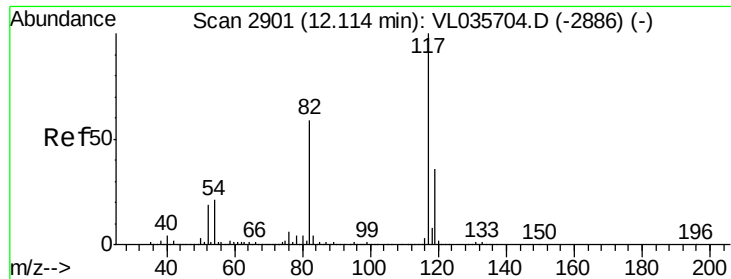
Tgt Ion: 107 Resp: 2326861

Ion Ratio Lower Upper

107 100

109 96.5 76.0 114.0





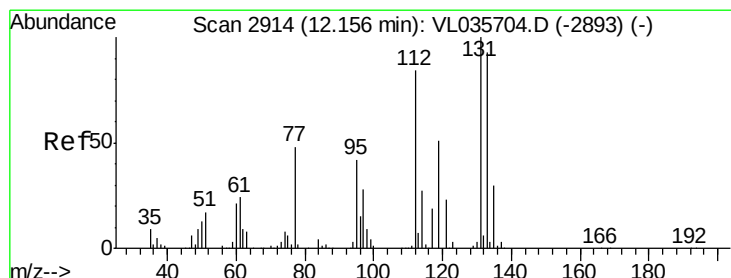
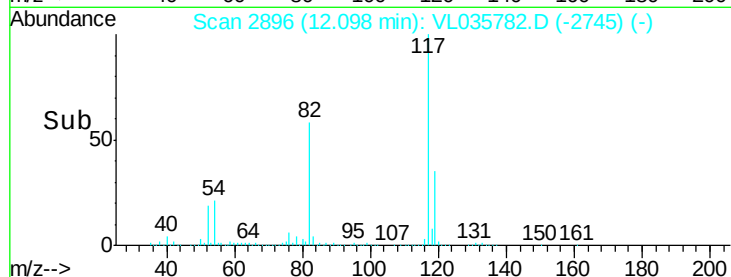
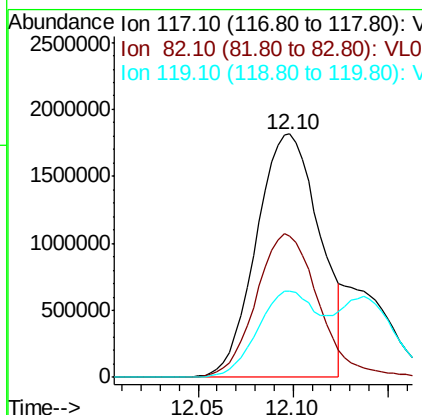
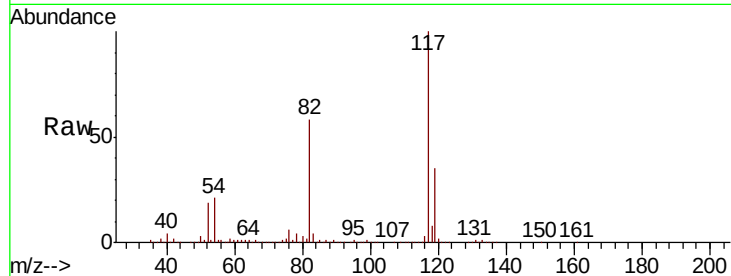
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 4209317
Ion Ratio Lower Upper
117 100
82 58.6 46.1 69.1
119 31.6 28.0 42.0

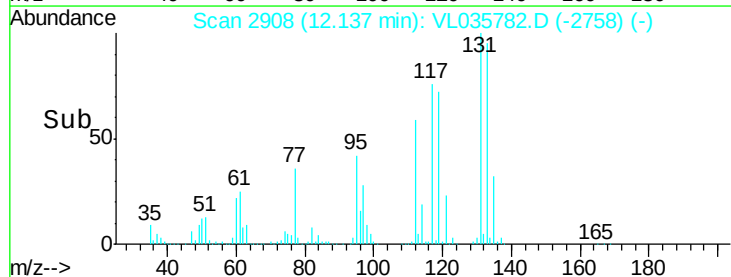
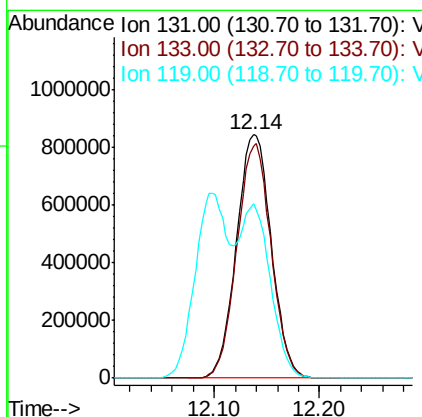
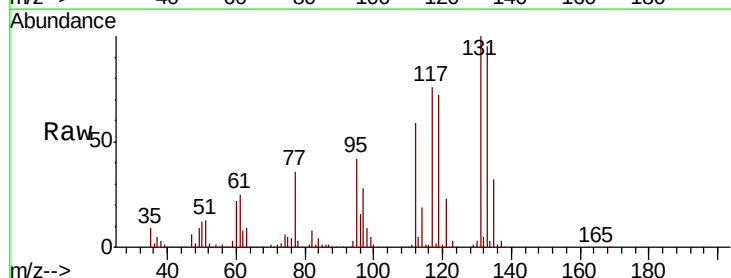
Manual Integrations
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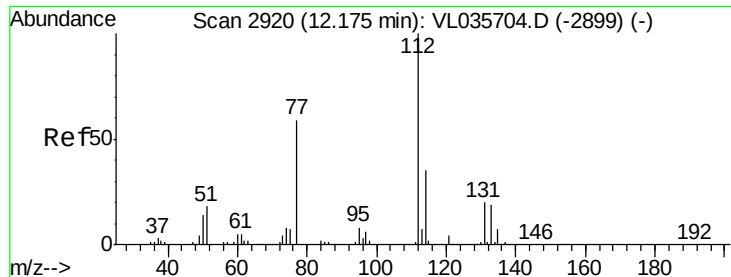
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.977 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion:131 Resp: 1937451
Ion Ratio Lower Upper
131 100
133 94.8 76.2 114.4
119 69.8 52.4 78.6





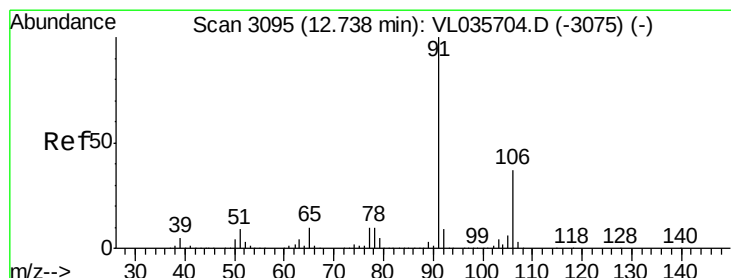
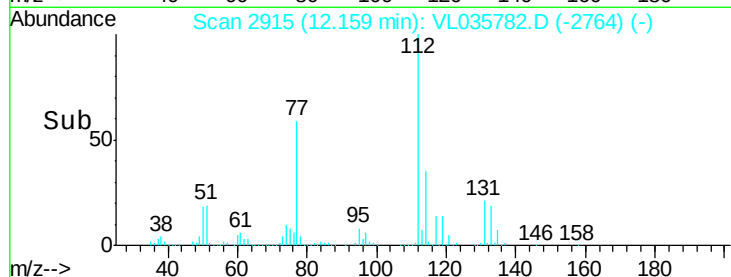
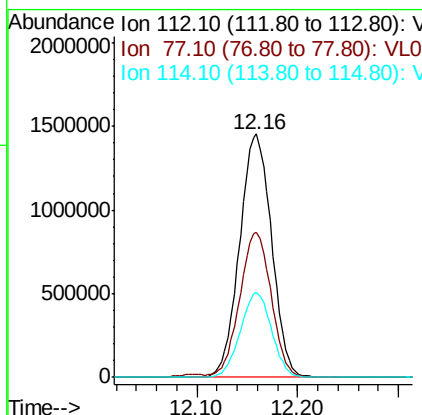
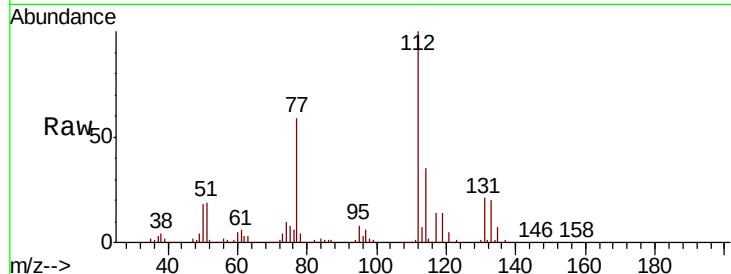
#57
Chlorobenzene
Concen: 10.039 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	59.3	48.2	72.2
114	34.9	31.9	39.1

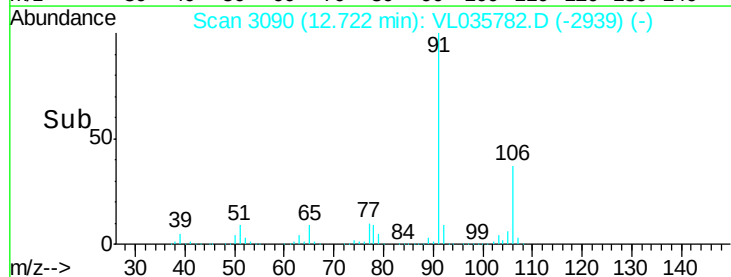
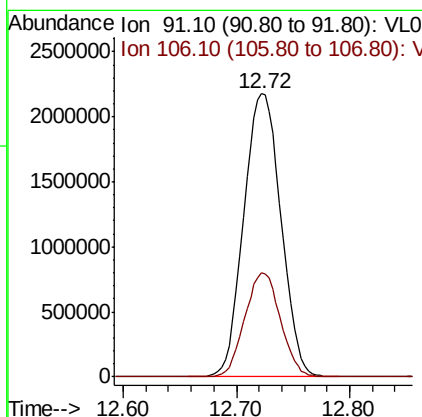
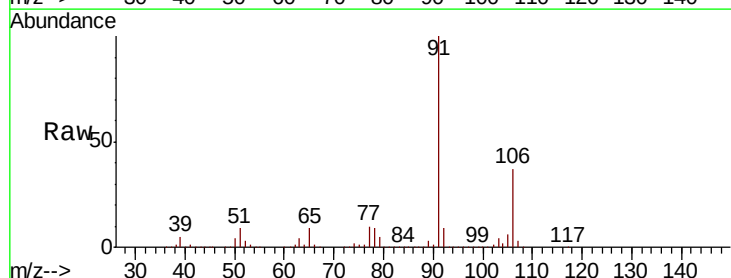
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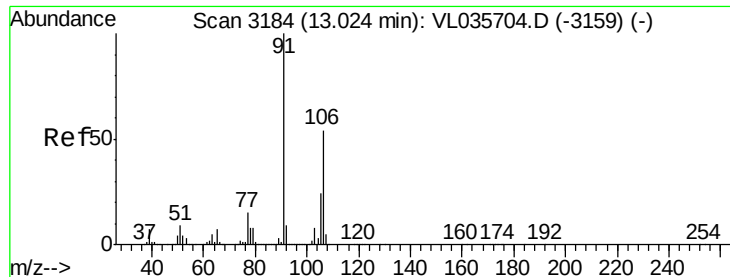
MMDadoda
10/19/2020 11:10:05 AM



#58
Ethyl Benzene
Concen: 11.786 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.7	29.7	44.5





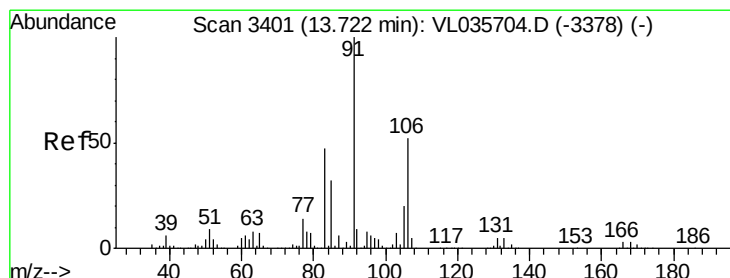
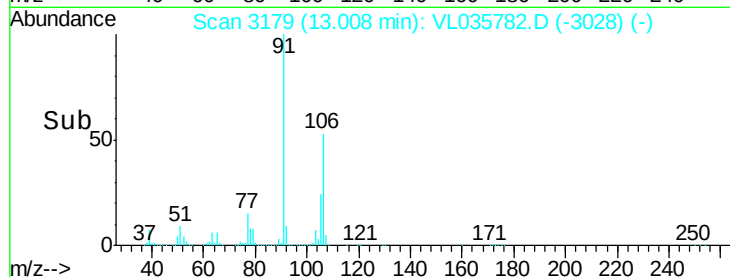
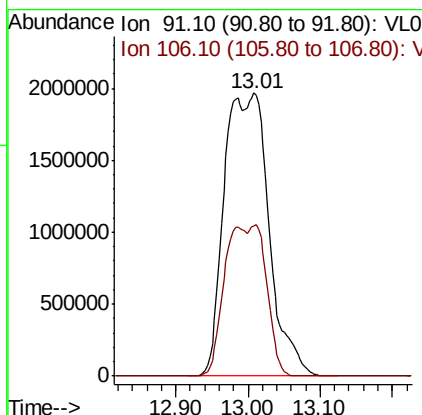
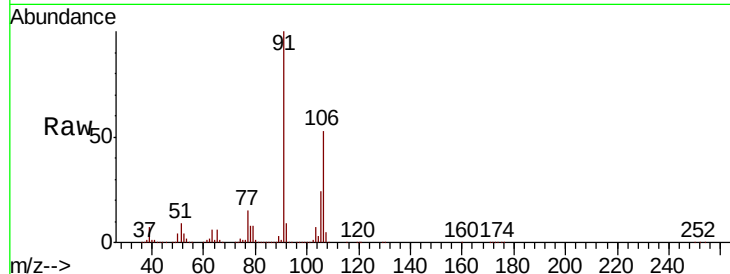
#59
m/p-Xylene
Concen: 22.946 ppbv m
RT: 13.01 min Scan# 3179
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 8466018
Ion Ratio Lower Upper
91 100
106 49.8 41.4 62.0

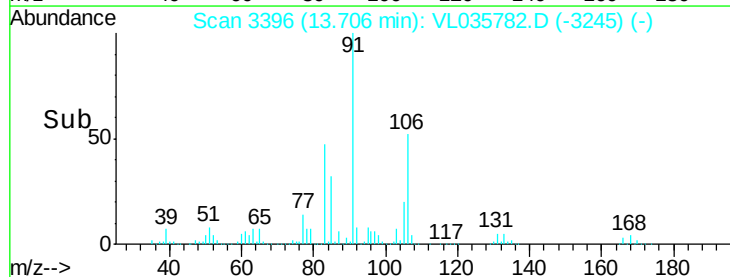
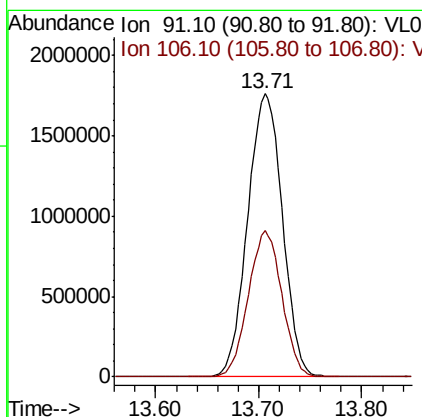
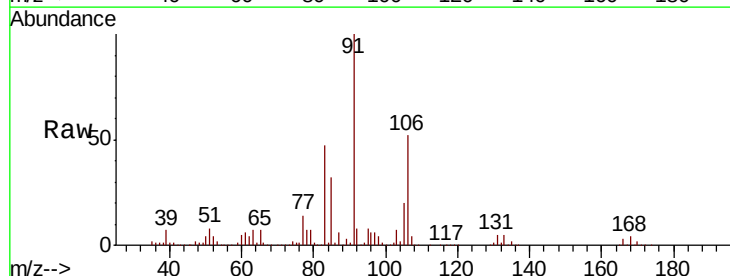
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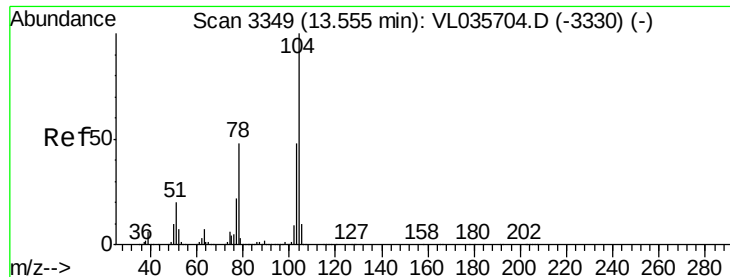
MMDadoda
10/19/2020 11:10:05 AM



#60
o-Xylene
Concen: 11.021 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion: 91 Resp: 4113420
Ion Ratio Lower Upper
91 100
106 49.9 25.0 75.0





#61

Stvrene

Concen: 12.591 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 3249367

Ion Ratio Lower Upper

104 100

78 45.8 37.2 55.8

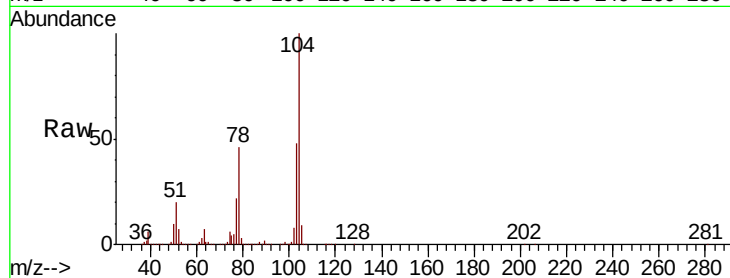
103 47.3 38.2 57.2

Manual Integrations

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MMDadoda

10/19/2020 11:10:05 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

2000000

1500000

1000000

500000

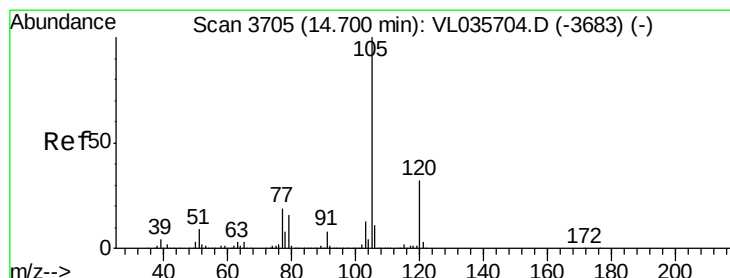
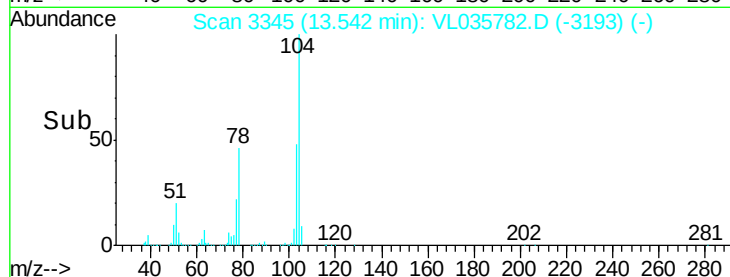
0

13.54

13.50

13.60

Time-->



#62

Isopropylbenzene

Concen: 10.746 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. -0.02 min

Lab File: VL035782.D

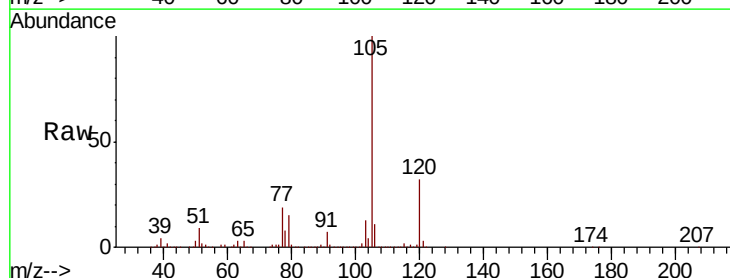
Acq: 16 Oct 2020 11:05

Tgt Ion:105 Resp: 6220569

Ion Ratio Lower Upper

105 100

120 29.8 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

3000000

2500000

2000000

1500000

1000000

500000

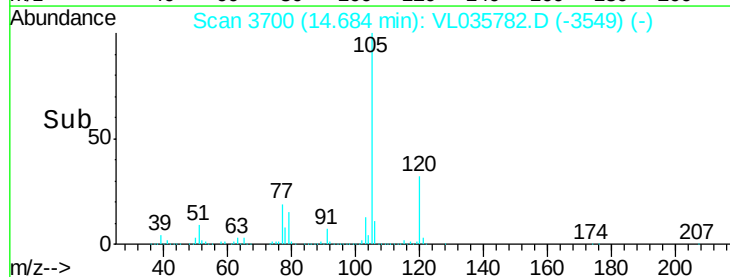
0

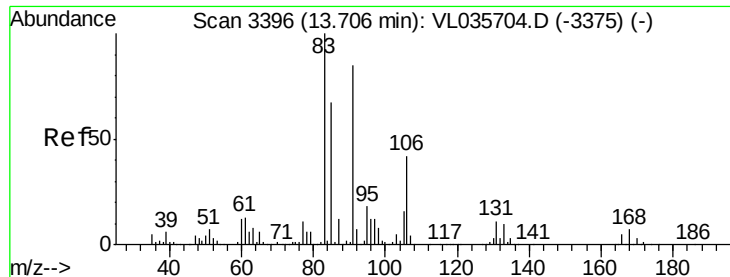
14.68

14.60

14.70

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 9.737 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2980077

Ion Ratio Lower Upper

83 100

131 10.7 5.3 16.1

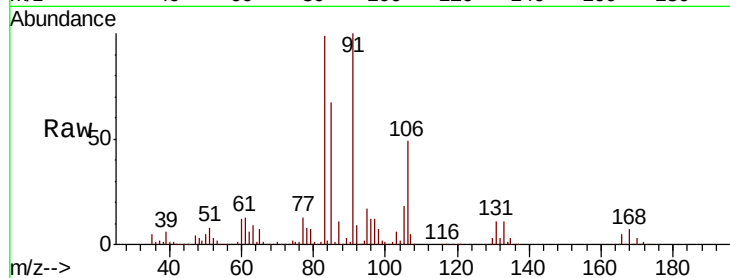
85 66.6 33.4 100.2

Manual Integrations

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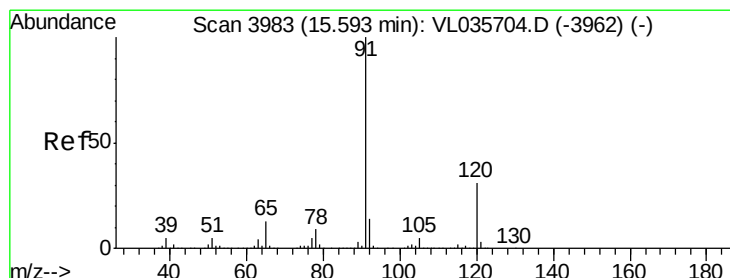
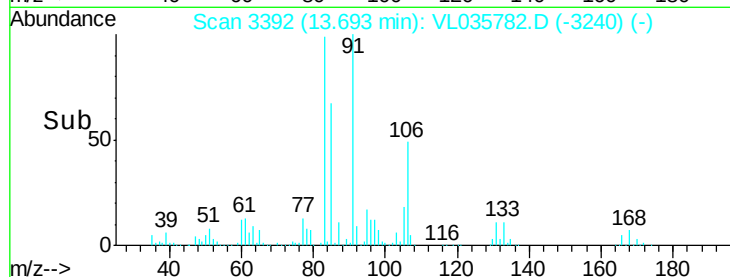
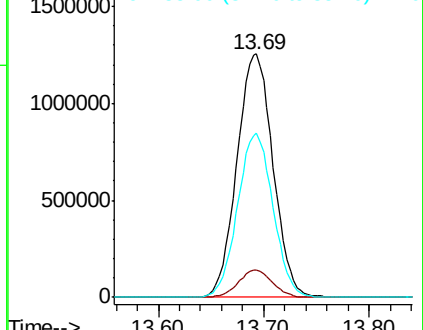
10/19/2020 11:10:05 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.260 ppbv

RT: 15.58 min Scan# 3978

Delta R.T. -0.02 min

Lab File: VL035782.D

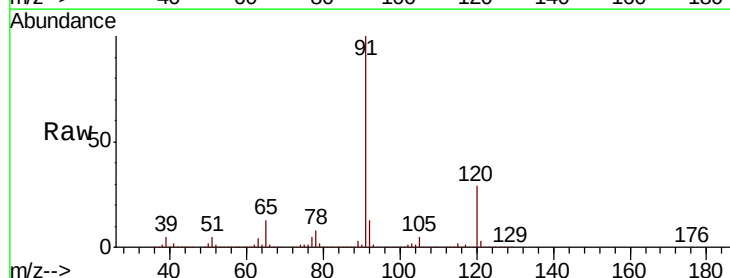
Acq: 16 Oct 2020 11:05

Tgt Ion:120 Resp: 1907788

Ion Ratio Lower Upper

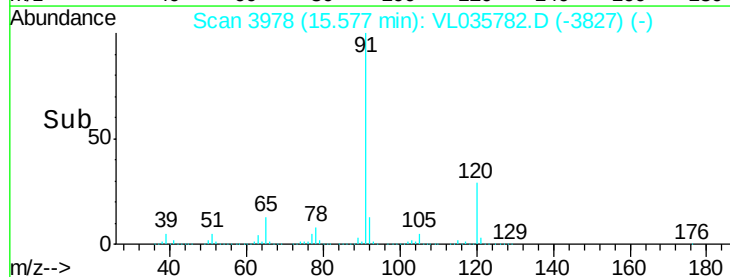
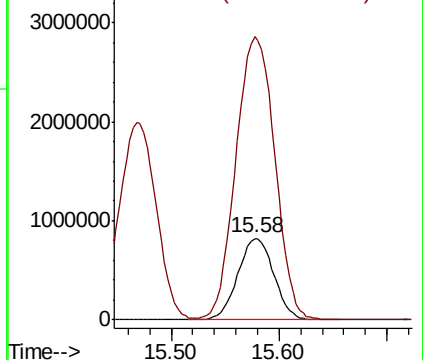
120 100

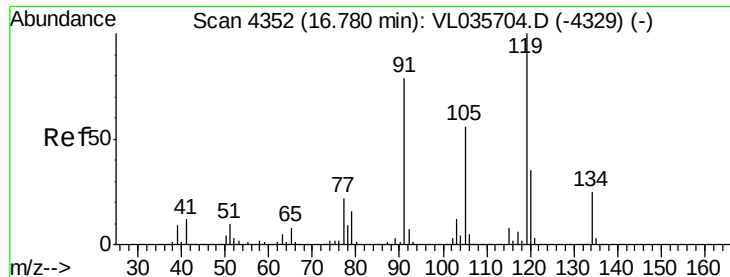
91 377.1 300.4 450.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 10.886 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 119 Resp: 5729781

Ion Ratio Lower Upper

119 100

91 77.0 62.4 93.6

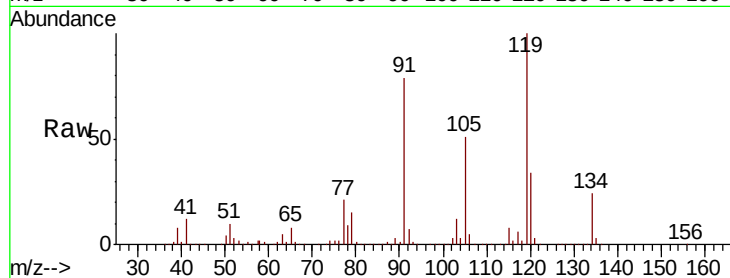
134 22.5 18.2 27.2

Manual Integrations

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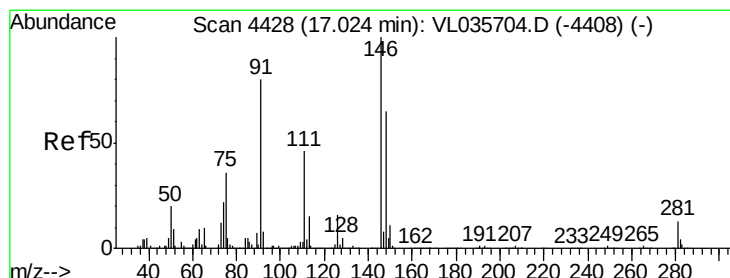
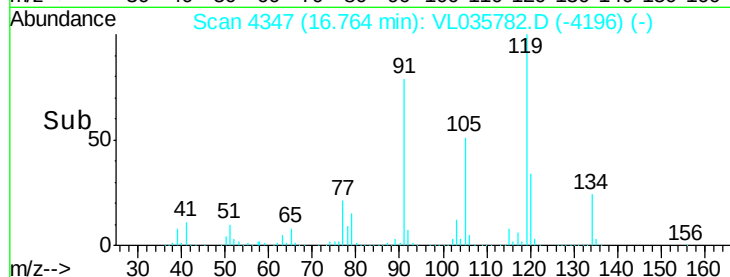
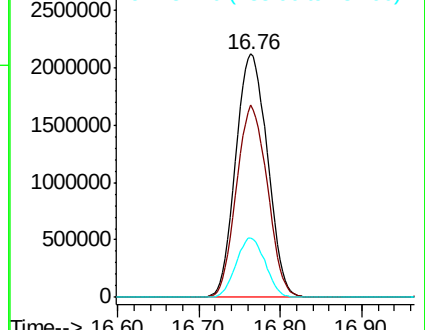
10/19/2020 11:10:05 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 13.316 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

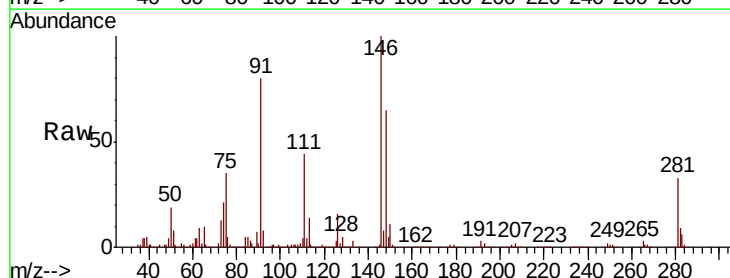
Tgt Ion: 91 Resp: 2123501

Ion Ratio Lower Upper

91 100

126 20.2 15.3 22.9

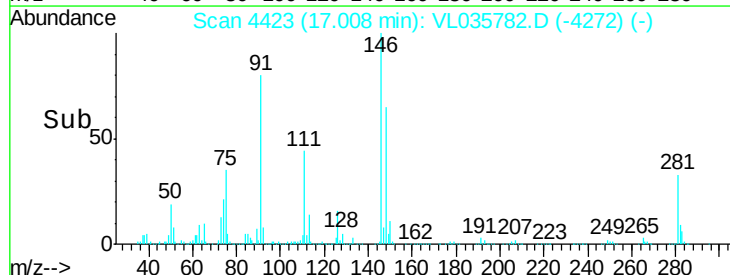
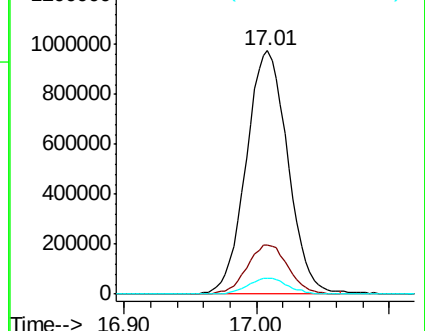
128 6.4 5.0 7.4

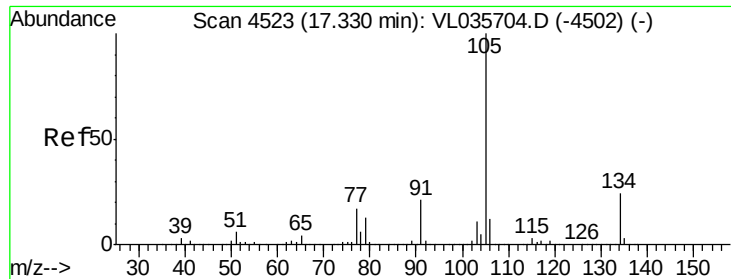


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.543 ppbv

RT: 17.31 min Scan# 4518

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 7663041

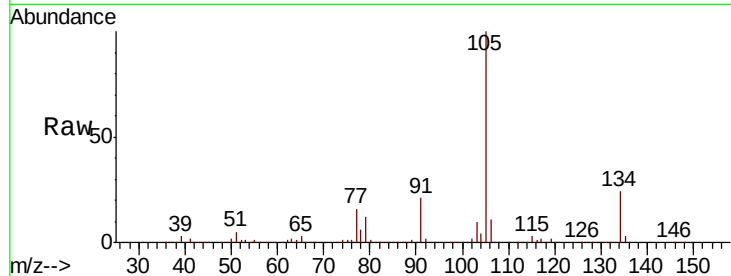
Ion Ratio Lower Upper

105 100

134 21.8 17.6 26.4

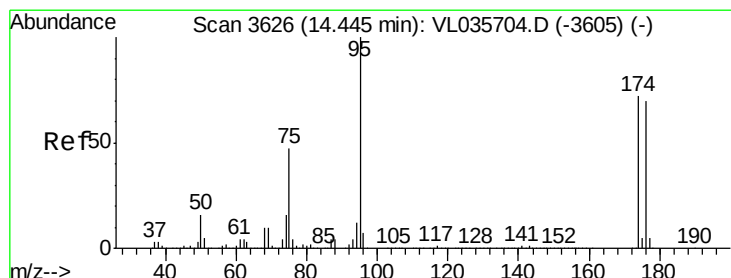
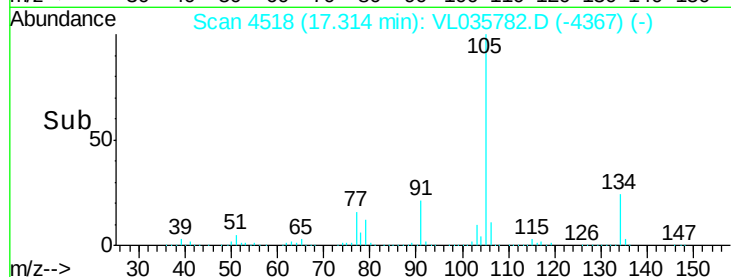
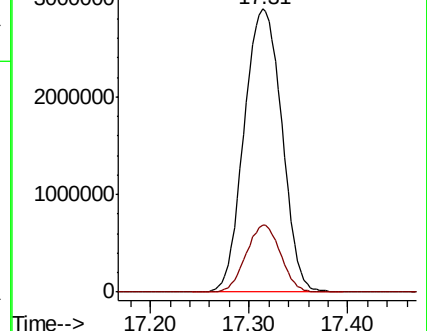
Manual Integrations
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10/19/2020 11:10:05 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.915 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

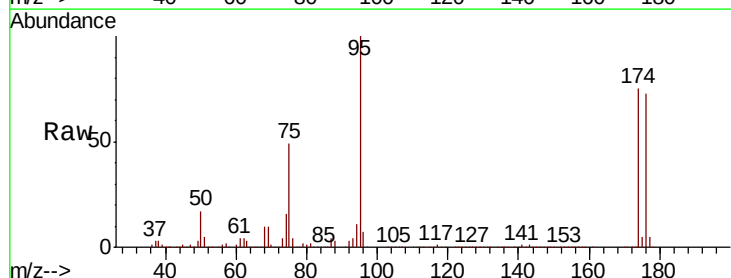
Tgt Ion: 95 Resp: 3127478

Ion Ratio Lower Upper

95 100

174 75.8 59.6 89.4

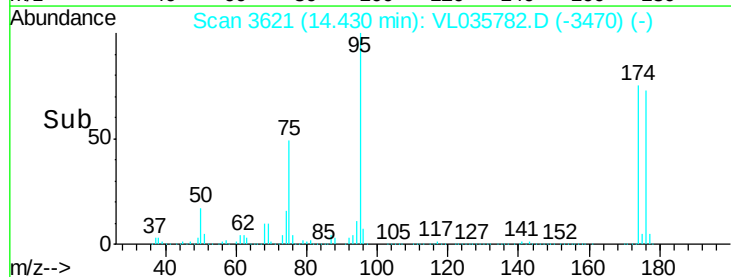
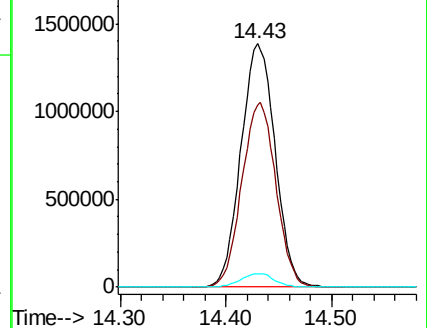
175 5.4 4.2 6.4

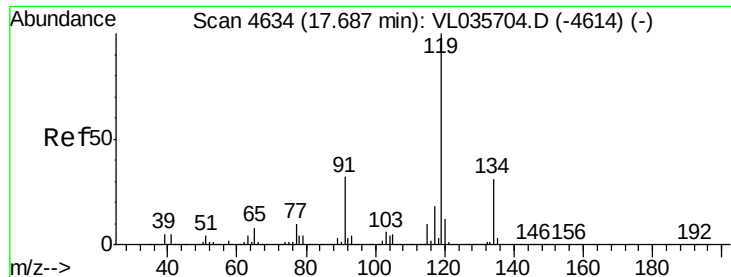


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





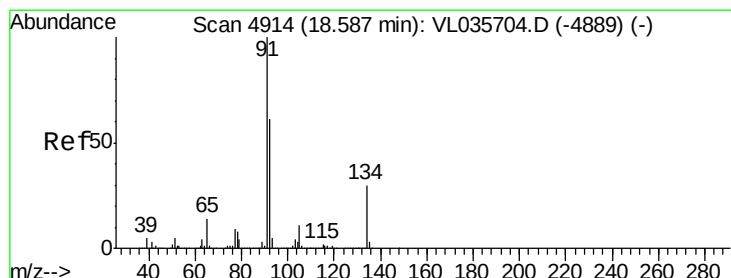
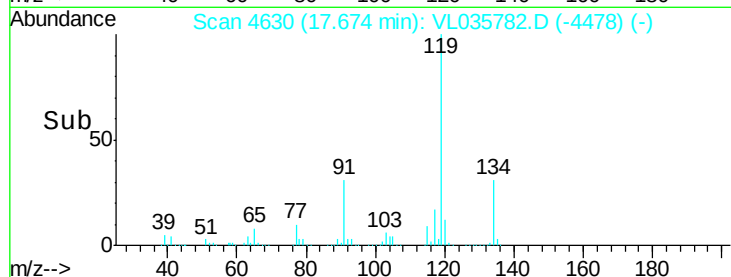
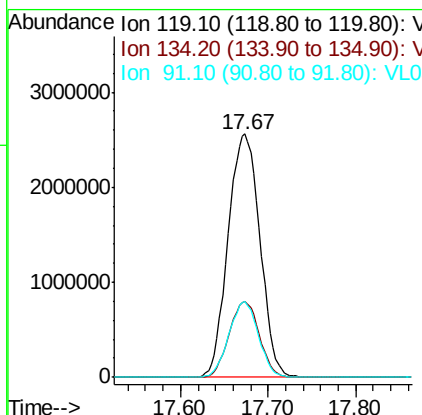
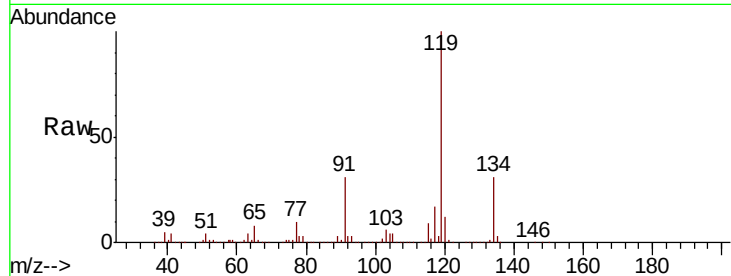
#69
 p-Isopropyltoluene
 Concen: 10.939 ppbv
 RT: 17.67 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.5	23.9	35.9
91	28.8	23.8	35.6

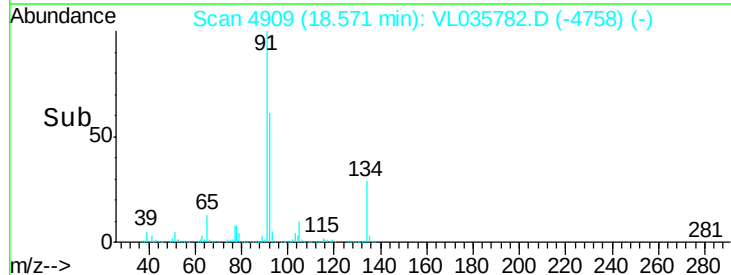
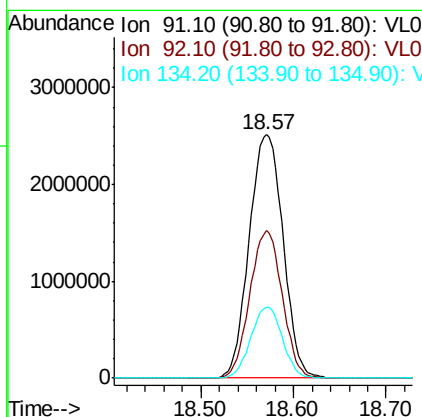
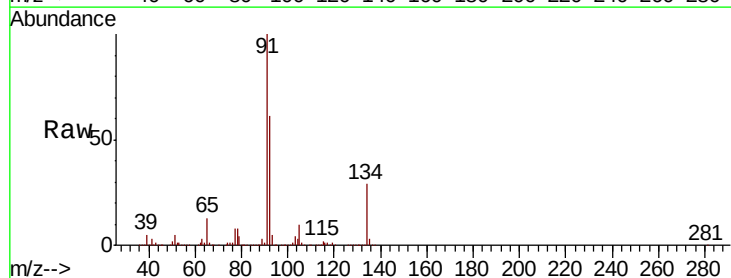
Manual Integrations
 APPROVED

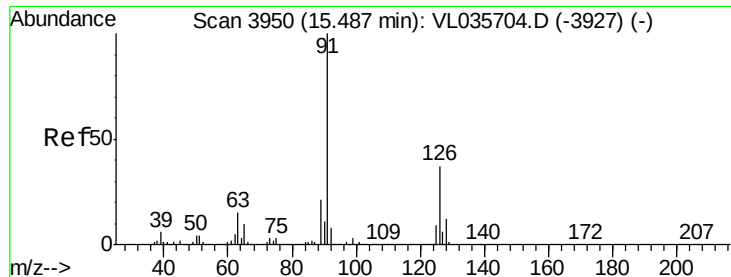
MMDadoda
 10/19/2020 11:10:05 AM



#70
 n-Butylbenzene
 Concen: 10.482 ppbv
 RT: 18.57 min Scan# 4909
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.0	70.4
134	27.2	21.9	32.9





#71

2-Chlorotoluene

Concen: 11.220 ppbv

RT: 15.47 min Scan# 3944

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4737625

Ion Ratio Lower Upper

91 100

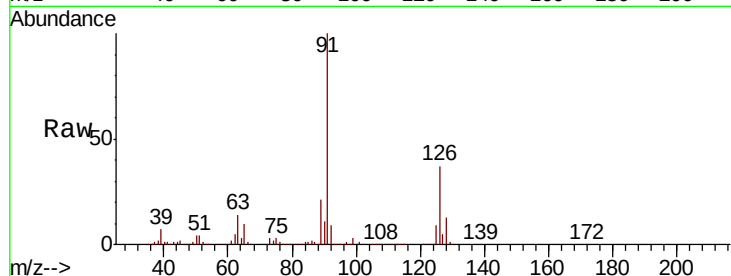
126 36.3 14.4 57.4

Manual Integrations

APPROVED

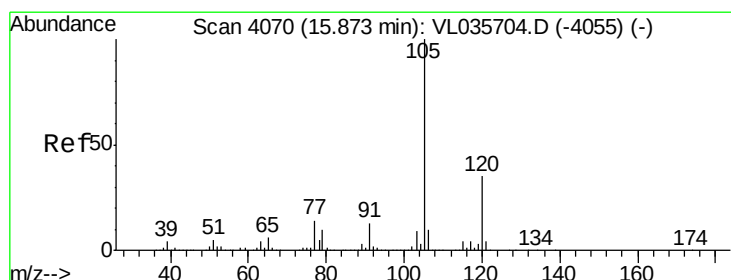
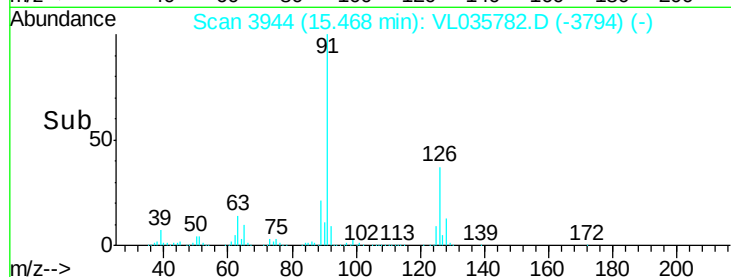
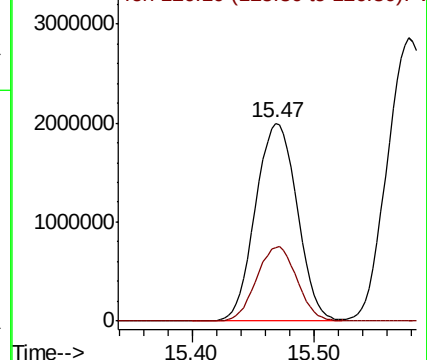
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10/19/2020 11:10:05 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.436 ppbv

RT: 15.86 min Scan# 4065

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Tgt Ion:105 Resp: 5056001

Ion Ratio Lower Upper

105 100

120 33.0 26.5 39.7

91 12.5 10.2 15.2

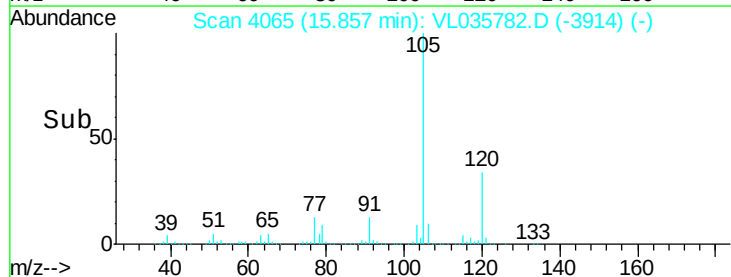
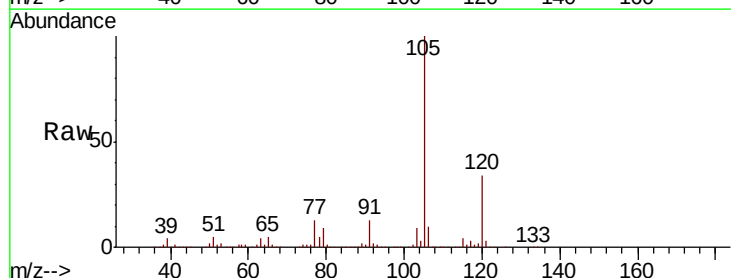
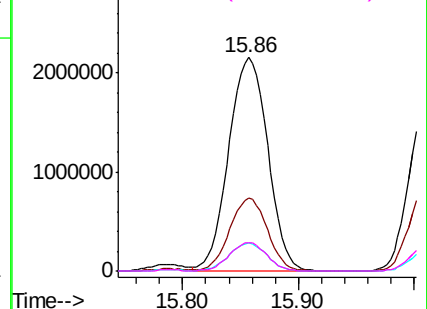
77 12.7 10.3 15.5

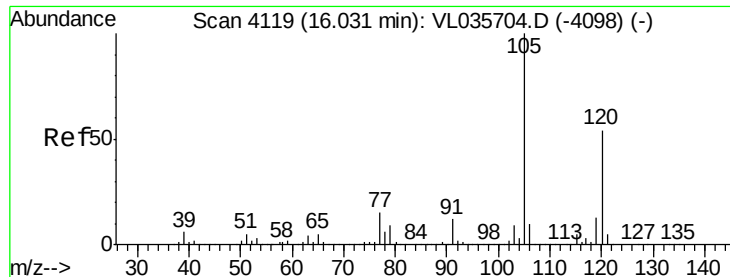
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 11.183 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion:105 Resp: 4672202

Ion Ratio Lower Upper

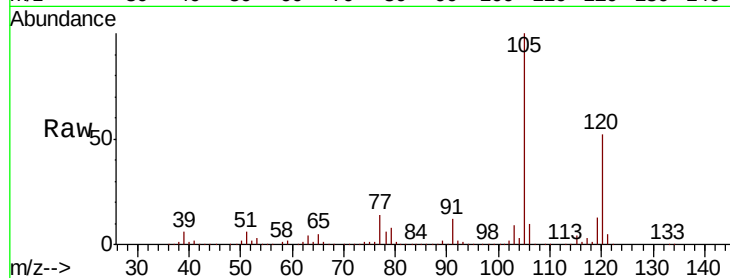
105 100

120 52.3 43.0 64.4

Manual Integrations
APPROVED

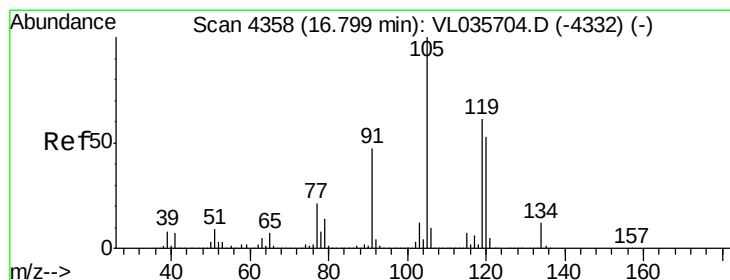
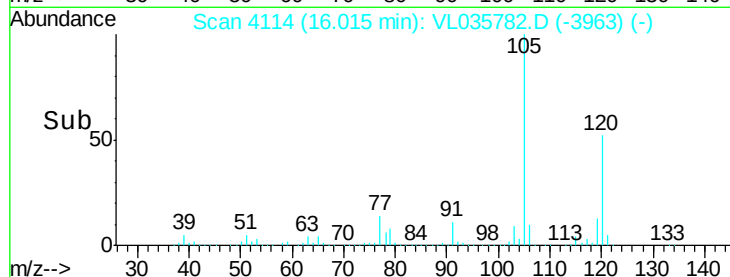
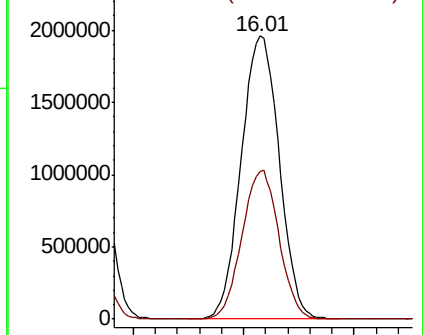
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.275 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Tgt Ion:105 Resp: 4839152

Ion Ratio Lower Upper

105 100

120 53.4 42.5 63.7

91 48.9 37.7 56.5

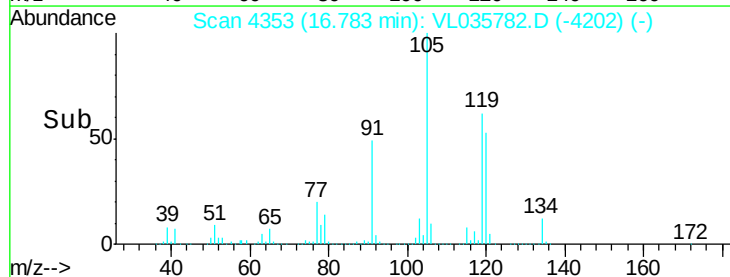
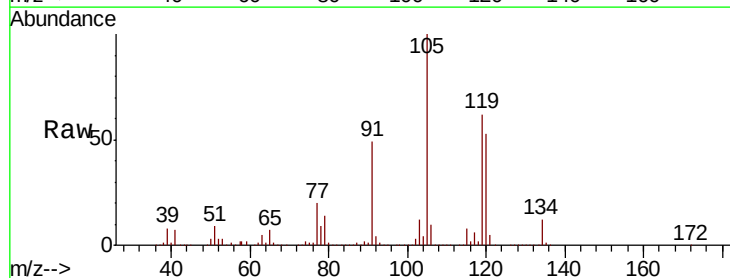
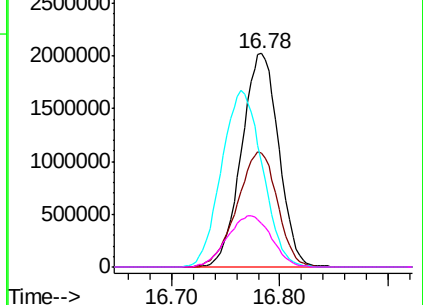
77 20.4 16.7 25.1

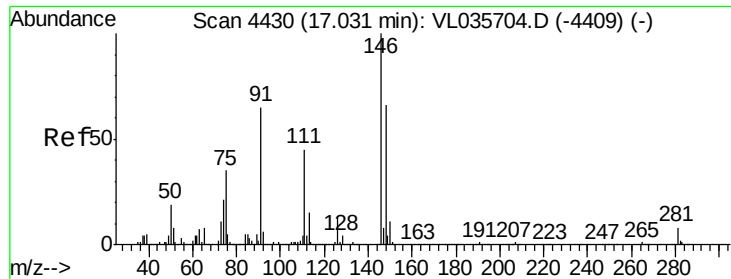
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.985 ppbv

RT: 17.01 min Scan# 4425

Delta R.T. -0.02 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 3210842

Ion Ratio Lower Upper

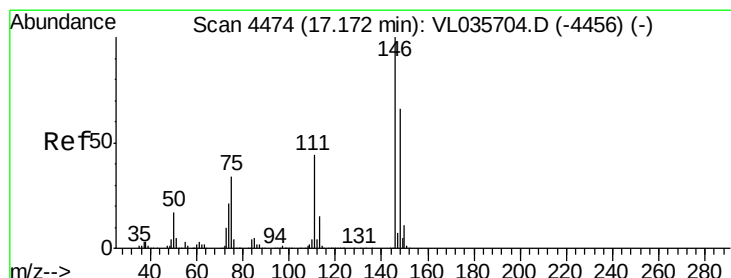
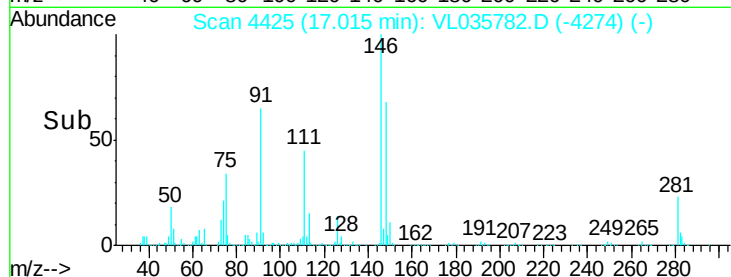
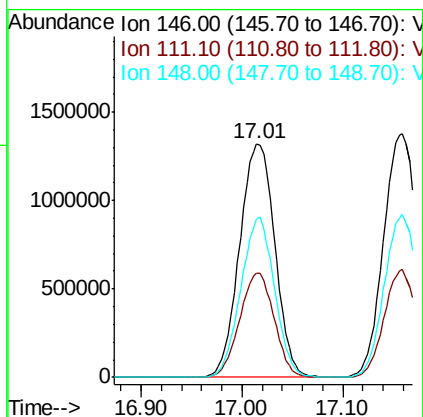
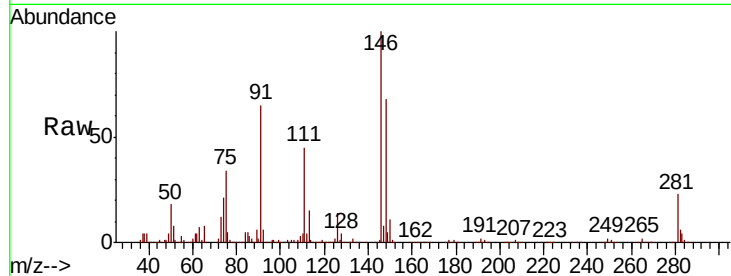
146 100

111 43.6 22.4 67.0

148 65.4 33.0 99.0

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 10.552 ppbv

RT: 17.16 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL035782.D

Acq: 16 Oct 2020 11:05

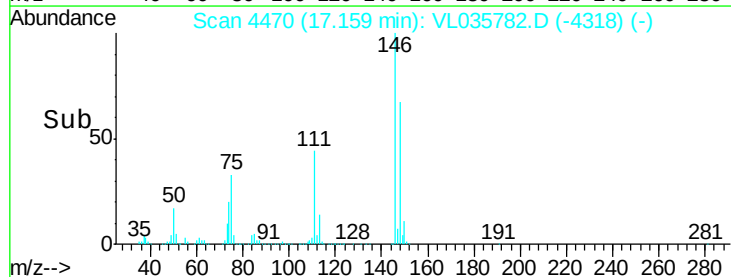
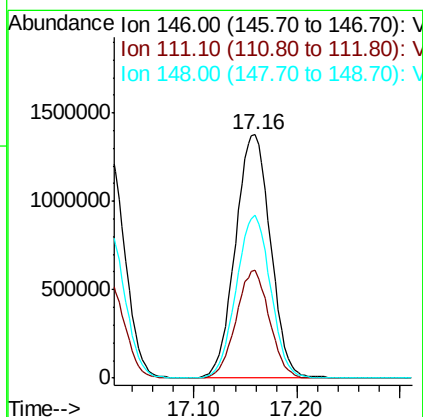
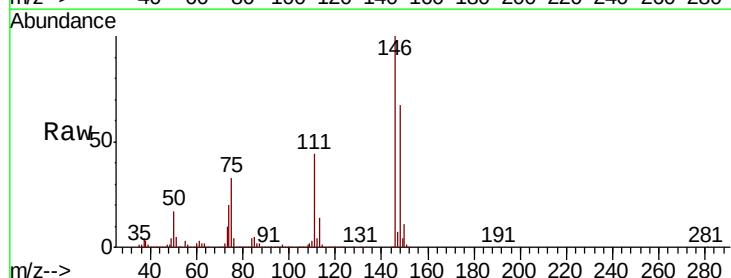
Tgt Ion:146 Resp: 3243414

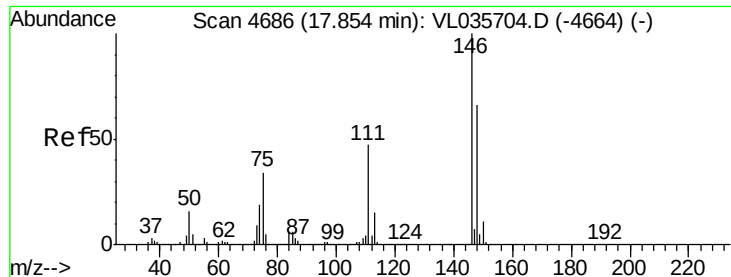
Ion Ratio Lower Upper

146 100

111 42.5 21.4 64.3

148 65.8 32.6 98.0





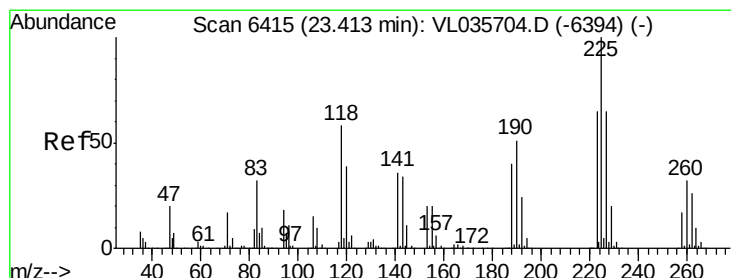
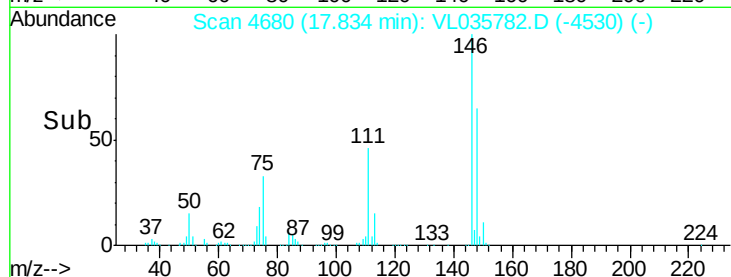
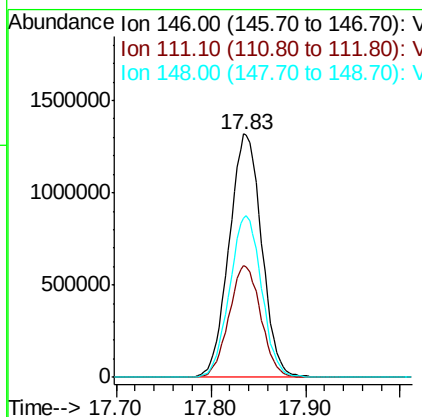
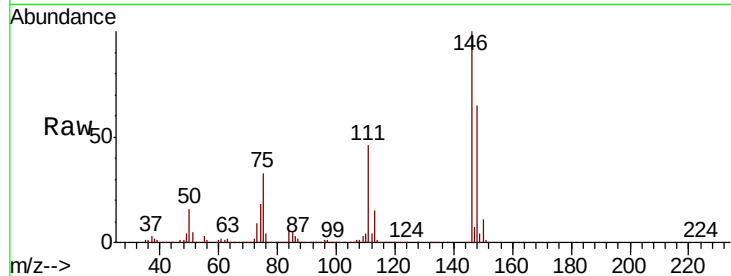
#77
 1,2-Dichlorobenzene
 Concen: 10.346 ppbv
 RT: 17.83 min Scan# 4680
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.1	22.9	68.5
148	65.6	32.6	98.0

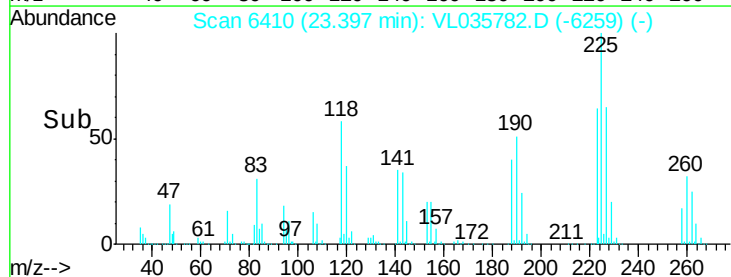
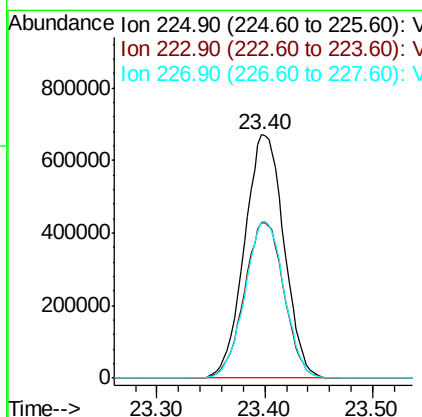
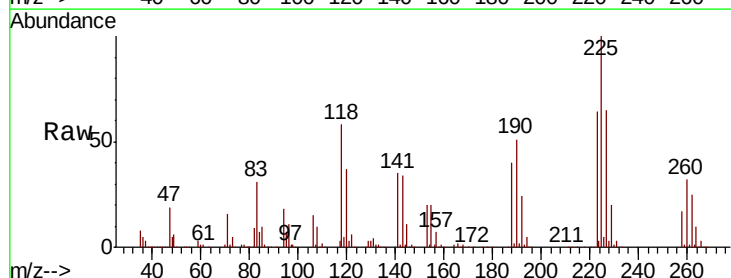
Manual Integrations
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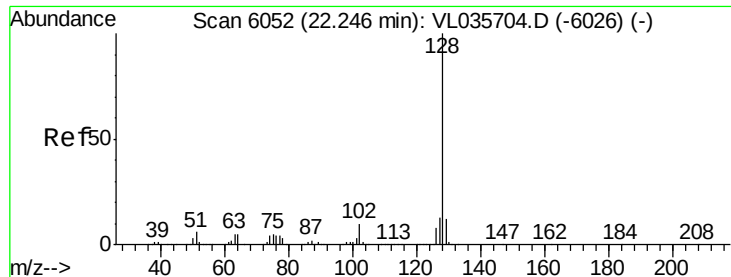
MMDadoda
 10/19/2020 11:10:05 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.177 ppbv
 RT: 23.40 min Scan# 6410
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.1	51.3	76.9
227	63.9	51.6	77.4





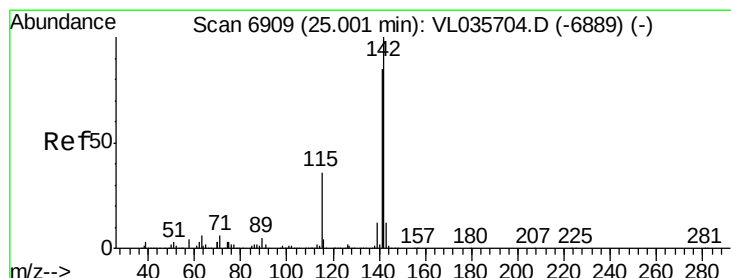
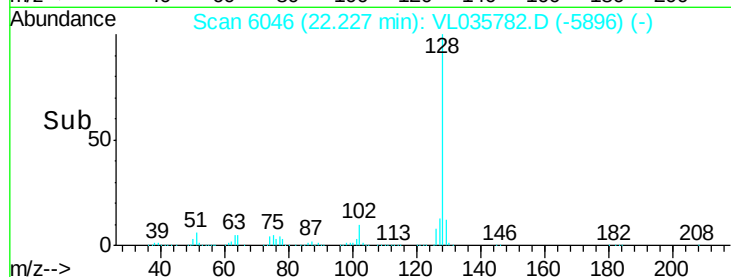
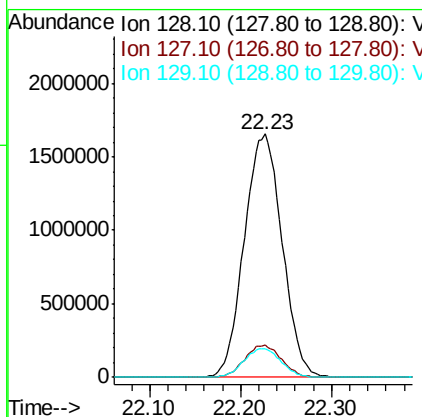
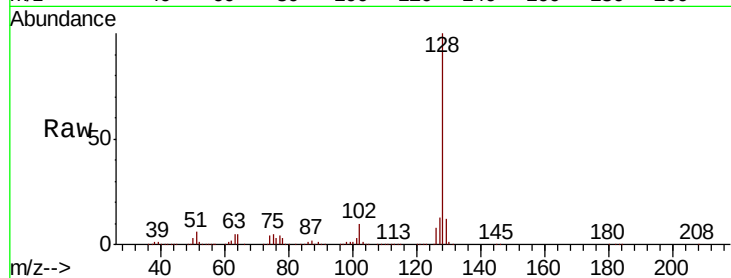
#79
Naphthalene
Concen: 10.638 ppbv
RT: 22.23 min Scan# 6046
Delta R.T. -0.02 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	11.9	9.4	14.0

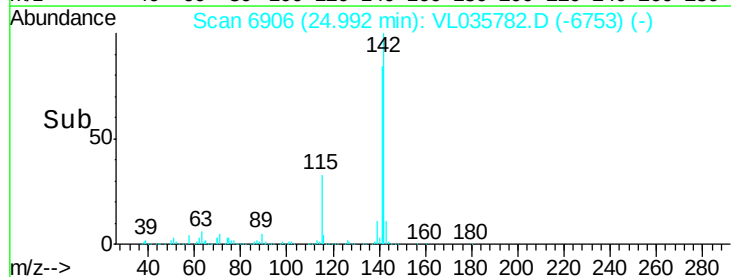
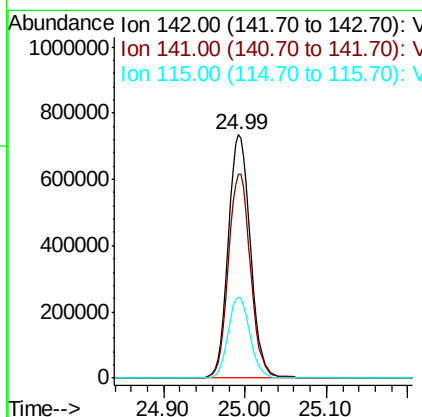
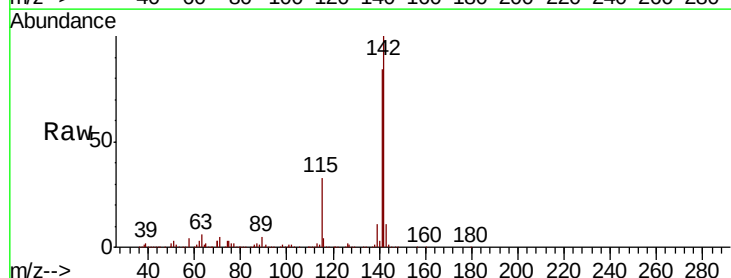
Manual Integrations
APPROVED

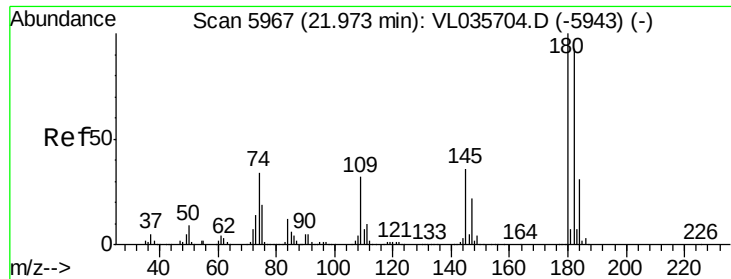
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10/19/2020 11:10:05 AM



#80
Naphthalene, 2-methyl-
Concen: 13.327 ppbv
RT: 24.99 min Scan# 6906
Delta R.T. -0.01 min
Lab File: VL035782.D
Acq: 16 Oct 2020 11:05

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.2	102.4
115	33.1	27.8	41.6





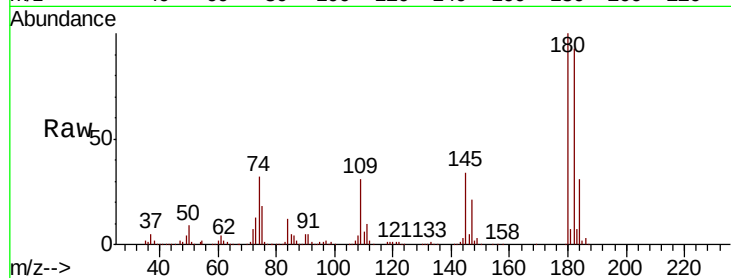
#81
 1,2,4-Trichlorobenzene
 Concen: 10.711 ppbv
 RT: 21.95 min Scan# 5961
 Delta R.T. -0.02 min
 Lab File: VL035782.D
 Acq: 16 Oct 2020 11:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	30.9	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
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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

