

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL060118\
 Data File : VL032025.D
 Acq On : 1 Jun 2018 15:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 3:35:44 PM

Quant Time: Jun 02 02:14:44 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1377436	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2587349	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2752911m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	1992787	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.15	85	1219424	7.36	ppbv 100
3) Chlorodifluoromethane	3.08	51	1189160	9.18	ppbv 99
4) Chloromethane	3.24	50	620626	9.44	ppbv 100
5) Vinyl Chloride	3.36	62	651139	8.92	ppbv 99
6) Bromomethane	3.59	94	464818	9.26	ppbv 96
7) Chloroethane	3.68	64	272733	8.78	ppbv 93
8) Dichlorotetrafluoroethane	3.29	85	1610966	8.92	ppbv 99
9) Propene	3.10	41	444379	10.50	ppbv 96
10) Heptane	8.37	43	1536216	10.24	ppbv 98
11) Trichlorofluoromethane	4.09	101	1925425	7.55	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1549378	8.86	ppbv 100
13) Ethanol	3.73	45	135354	8.18	ppbv 99
14) Bromoethene	3.87	108	527451	8.58	ppbv 100
15) Acetone	3.98	43	1317703	7.93	ppbv 100
16) 1,3-Butadiene	3.44	39	578538	9.54	ppbv 90
17) tert-Butyl alcohol	4.44	59	820925	10.30	ppbv 100
18) 1,1-Dichloroethene	4.44	96	712283	9.37	ppbv 94
19) Isopropyl Alcohol	4.11	45	1078359	9.81	ppbv 99
20) Methylene Chloride	4.50	84	657293	8.71	ppbv 98
21) Allyl Chloride	4.57	41	1134786	9.69	ppbv 100
22) trans-1,2-Dichloroethene	5.06	96	779684	9.53	ppbv 95
23) Vinyl Acetate	5.25	43	2315211	10.30	ppbv 98
24) 1,1-Dichloroethane	5.19	63	2060862	9.42	ppbv 99
25) Ethyl Acetate	5.87	43	3176511	9.66	ppbv 100
26) Hexane	5.88	57	1481828	9.69	ppbv 98
27) Carbon Disulfide	4.71	76	1968634	9.83	ppbv 99
28) Methyl tert-Butyl Ether	5.21	73	2027289	10.71	ppbv 99
29) Chloroform	5.96	83	2356985	9.14	ppbv 100
30) Cyclohexane	7.36	84	959068	10.62	ppbv 97
31) cis-1,2-Dichloroethene	5.75	61	1416057	10.29	ppbv 95
32) 1,1,1-Trichloroethane	6.73	97	1982645	9.43	ppbv 99
34) 2-Butanone	5.43	43	2124168	10.44	ppbv 99
35) Carbon Tetrachloride	7.25	117	2047157	9.27	ppbv 98
36) Benzene	7.12	78	2408668	10.60	ppbv 98
37) 1,2-Dichloroethane	6.52	62	1665228	10.15	ppbv 100
38) Trichloroethene	8.08	130	975906	11.19	ppbv 98
39) 1,2-Dichloropropane	7.86	63	851211	10.15	ppbv 97
40) 1,4-Dioxane	8.07	88	345299	9.58	ppbv 86
41) Tetrahydrofuran	6.26	42	875357	10.02	ppbv 99
42) Bromodichloromethane	8.04	83	2024360	9.88	ppbv 99
43) Methyl Methacrylate	8.25	69	884405	11.17	ppbv 98

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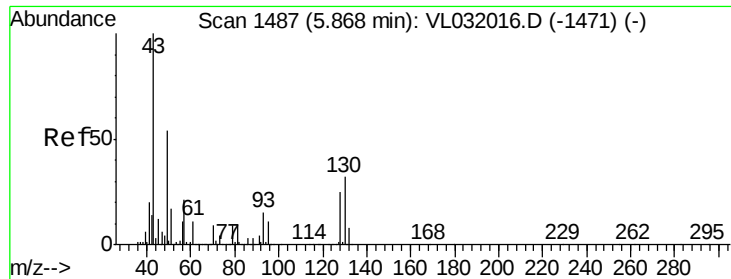
Manual Integrations
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MMDadoda
 6/4/2018 3:35:44 PM

Quant Time: Jun 02 02:14:44 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	3953049	10.15	ppbv	99
45) t-1,3-Dichloropropene	9.54	75	1315546	12.29	ppbv	100
46) cis-1,3-Dichloropropene	8.96	75	1580010	11.62	ppbv	99
47) 1,1,2-Trichloroethane	9.74	97	1020491	9.86	ppbv	98
48) Dibromochloromethane	10.58	129	1755741	10.24	ppbv	100
49) Bromoform	13.33	173	1377654	10.24	ppbv	99
50) 4-Methyl-2-Pentanone	8.99	43	2081996	10.53	ppbv	100
51) 2-Hexanone	10.40	43	2004801	11.29	ppbv	99
52) Tetrachloroethene	11.50	164	929018	10.29	ppbv	98
53) Toluene	10.07	91	2841872	11.17	ppbv	100
54) 1,2-Dibromoethane	10.89	107	1564417	10.32	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.41	131	1183033	8.90	ppbv	98
57) Chlorobenzene	12.43	112	2246084	8.93	ppbv	97
58) Ethyl Benzene	12.99	91	3971682	10.26	ppbv	97
59) m/p-Xylene	13.28	91	6564690m	19.35	ppbv	
60) o-Xylene	13.98	91	3352598	9.85	ppbv	99
61) Styrene	13.81	104	795973	12.10	ppbv	99
62) Isopropylbenzene	14.95	105	4148157	9.56	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.97	83	2200651	8.34	ppbv	100
64) n-propylbenzene	15.85	120	1041167	9.61	ppbv	99
65) tert-Butylbenzene	17.03	119	3533237	9.32	ppbv	100
66) Benzyl Chloride	17.29	91	373276	8.86	ppbv	98
67) sec-Butylbenzene	17.58	105	5040141	9.16	ppbv	100
69) p-Isopropyltoluene	17.94	119	4114149	9.65	ppbv	99
70) n-Butylbenzene	18.84	91	4139348	9.42	ppbv	100
71) 2-Chlorotoluene	15.75	91	3093952	9.70	ppbv	99
72) 4-Ethyltoluene	16.12	105	3418876	10.10	ppbv	99
73) 1,3,5-Trimethylbenzene	16.29	105	3083156	9.87	ppbv	99
74) 1,2,4-Trimethylbenzene	17.06	105	3242985	9.21	ppbv	93
75) 1,3-Dichlorobenzene	17.30	146	2070740	8.56	ppbv	100
76) 1,4-Dichlorobenzene	17.44	146	2065238	8.96	ppbv	99
77) 1,2-Dichlorobenzene	18.12	146	1980285	8.65	ppbv	100
78) Hexachloro-1,3-Butadiene	23.66	225	706781	7.78	ppbv	98
79) Naphthalene	22.56	128	2396011	12.02	ppbv	98
80) Naphthalene, 2-methyl-	25.21	142	1273129	25.89	ppbv	98
81) 1,2,4-Trichlorobenzene	22.29	180	1254541	10.72	ppbv	98

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1488

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1377436

Ion Ratio Lower Upper

49 100

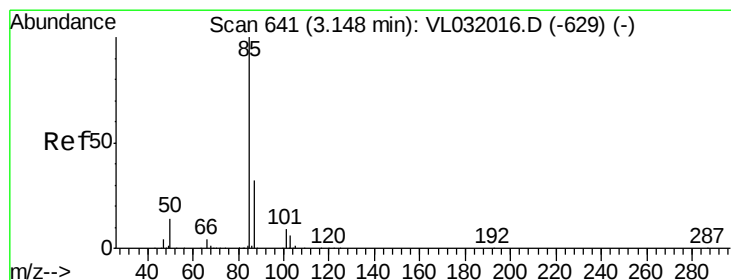
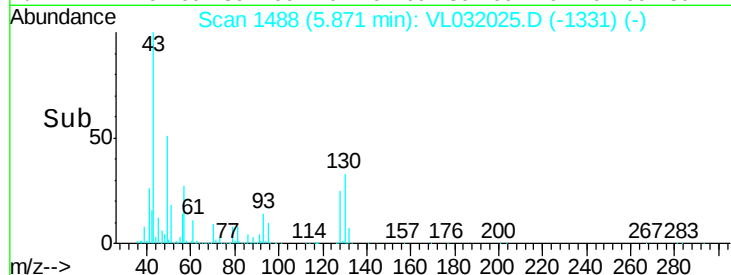
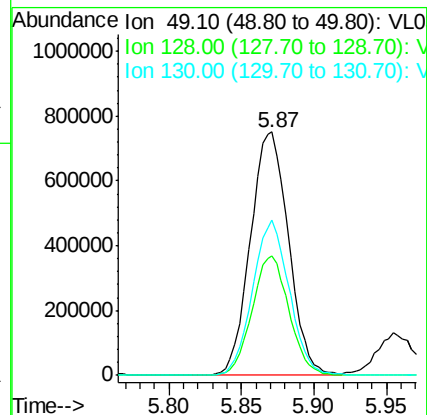
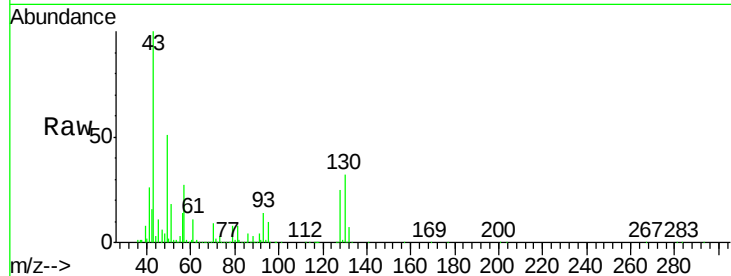
128 47.8 24.1 72.3

130 61.4 30.9 92.8

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#2

Dichlorodifluoromethane

Concen: 7.36 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032025.D

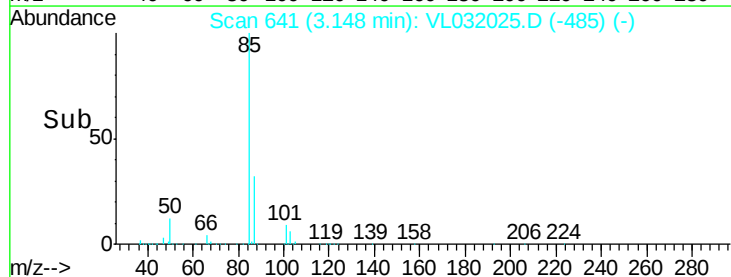
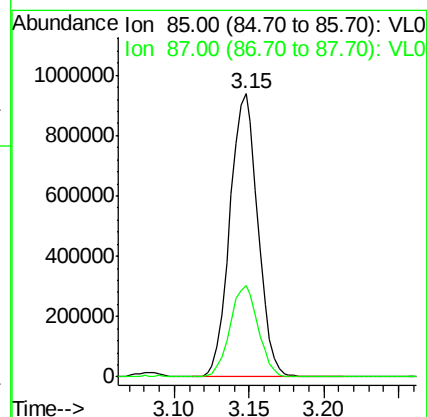
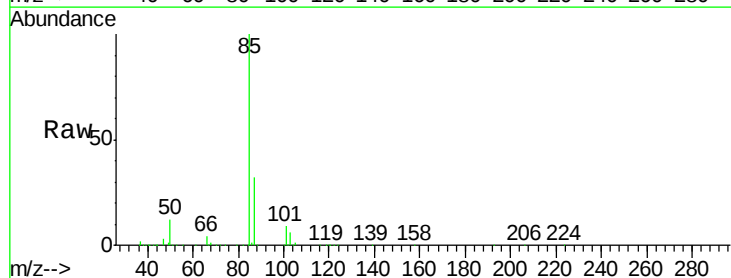
Acq: 1 Jun 2018 15:57

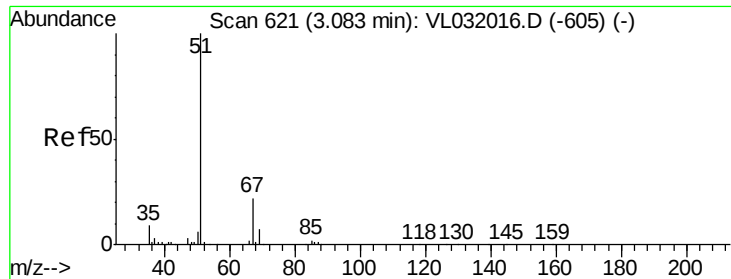
Tgt Ion: 85 Resp: 1219424

Ion Ratio Lower Upper

85 100

87 32.2 25.5 38.3





#3

Chlorodifluoromethane

Concen: 9.18 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tot Ion: 51 Resp: 1189160

Ion Ratio Lower Upper

51 100

67 20.9 17.2 25.8

Instrument :

MSVOA_L

ClientSampleId :

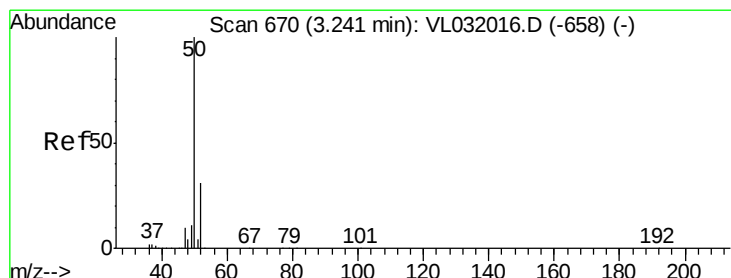
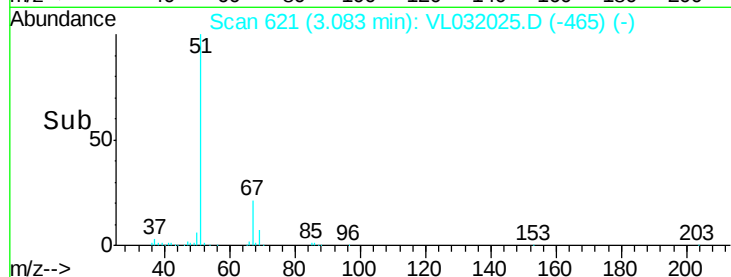
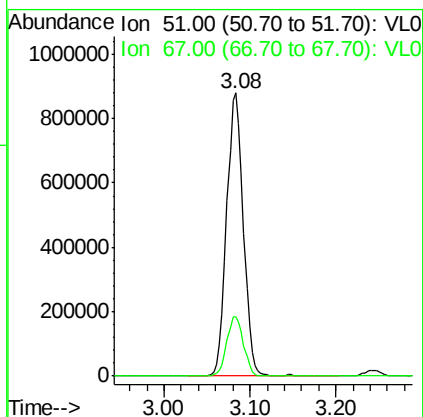
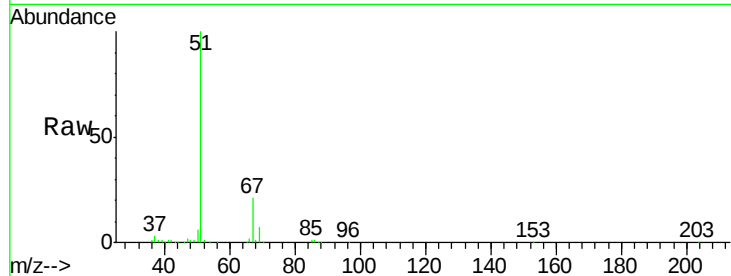
VSTDCCC010

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#4

Chloromethane

Concen: 9.44 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032025.D

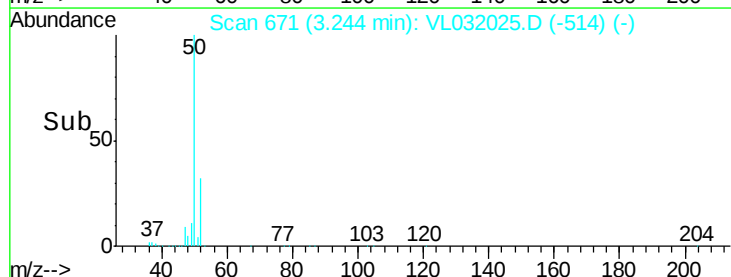
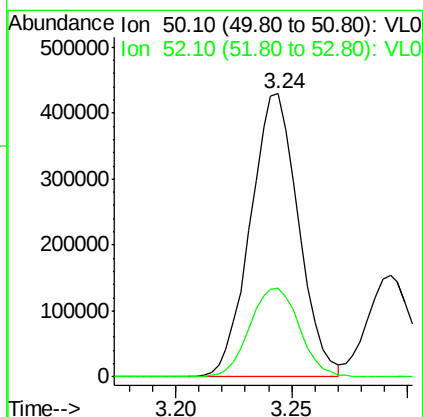
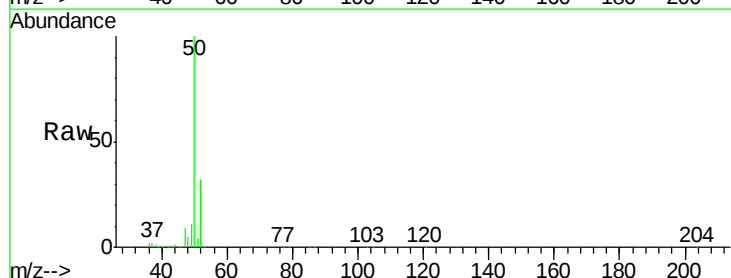
Acq: 1 Jun 2018 15:57

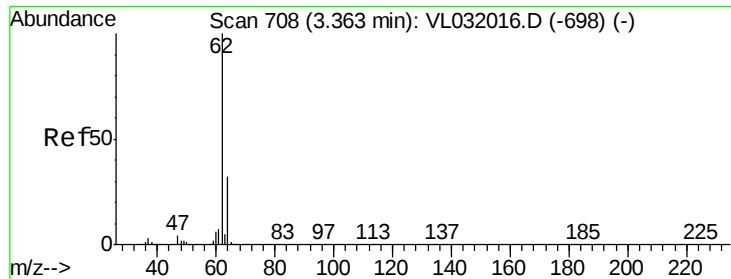
Tgt Ion: 50 Resp: 620626

Ion Ratio Lower Upper

50 100

52 31.5 25.0 37.6





#5

Vinyl Chloride

Concen: 8.92 ppbv

RT: 3.36 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 651139

Ion Ratio Lower Upper

62 100

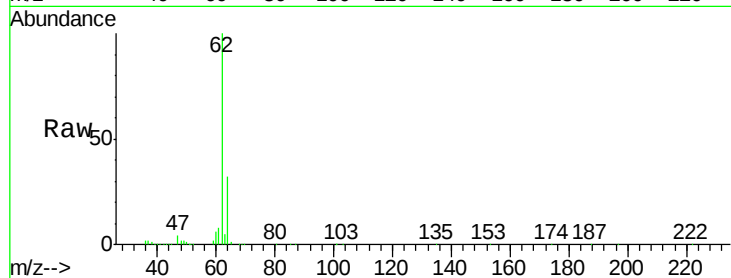
64 31.9 25.2 37.8

Manual Integrations

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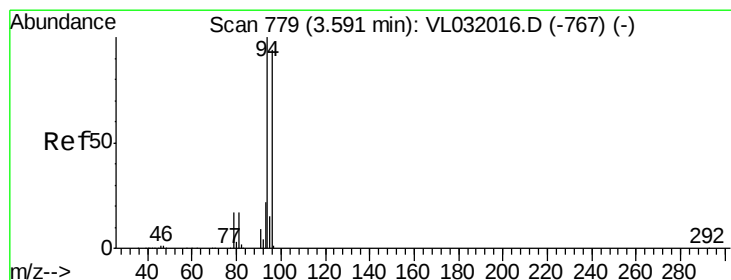
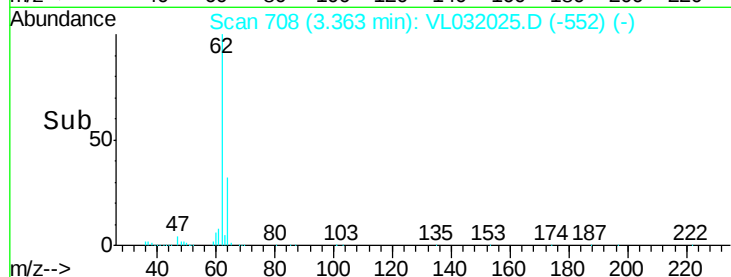
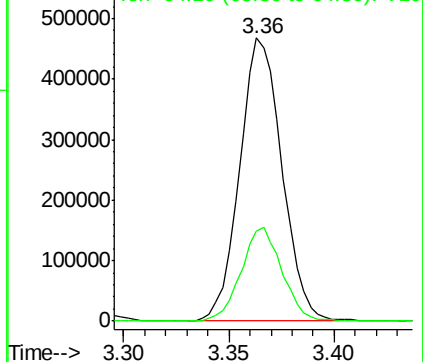
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.26 ppbv

RT: 3.59 min Scan# 779

Delta R.T. 0.00 min

Lab File: VL032025.D

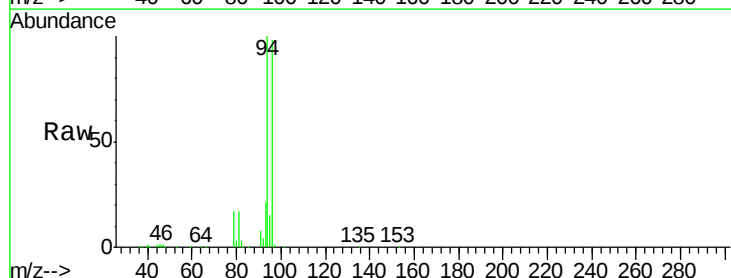
Acq: 1 Jun 2018 15:57

Tgt Ion: 94 Resp: 464818

Ion Ratio Lower Upper

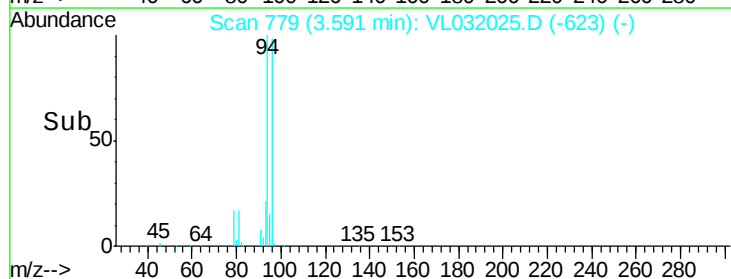
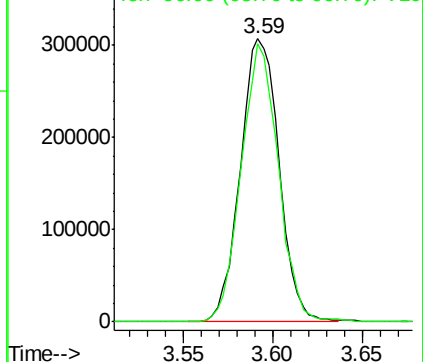
94 100

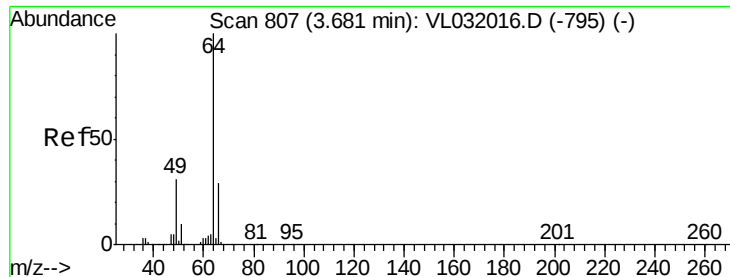
96 98.0 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.78 ppbv

RT: 3.68 min Scan# 806

Delta R.T. -0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 272733

Ion Ratio Lower Upper

64 100

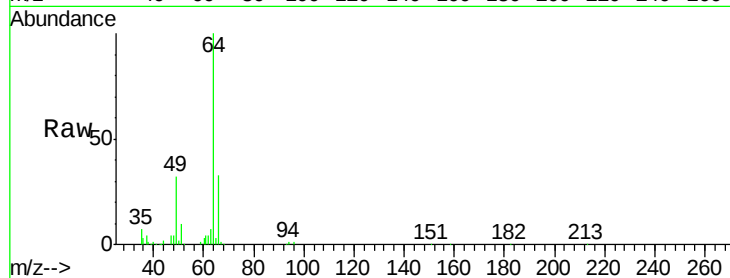
66 32.9 23.4 35.2

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

3.68

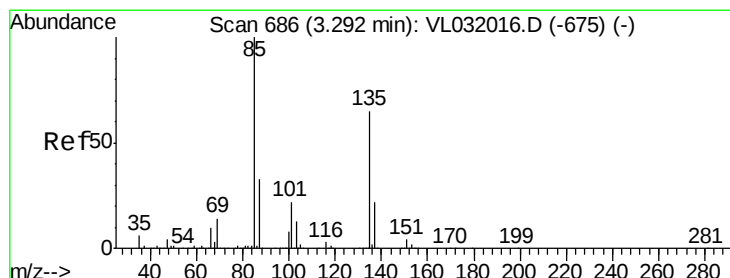
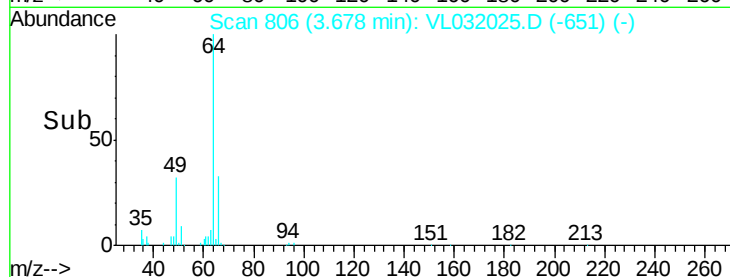
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.92 ppbv

RT: 3.29 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL032025.D

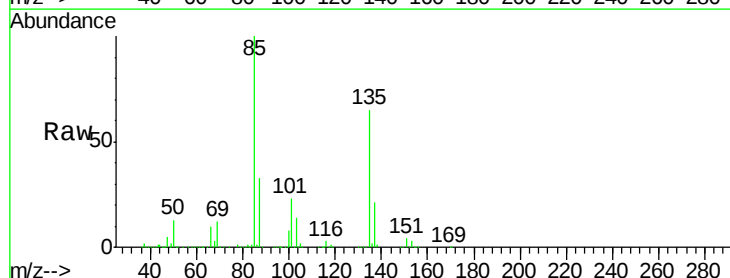
Acq: 1 Jun 2018 15:57

Tgt Ion: 85 Resp: 1610966

Ion Ratio Lower Upper

85 100

135 66.4 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

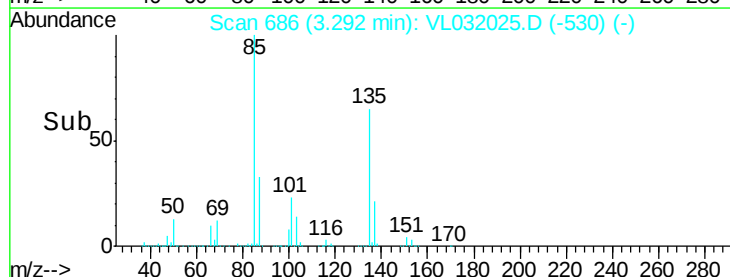
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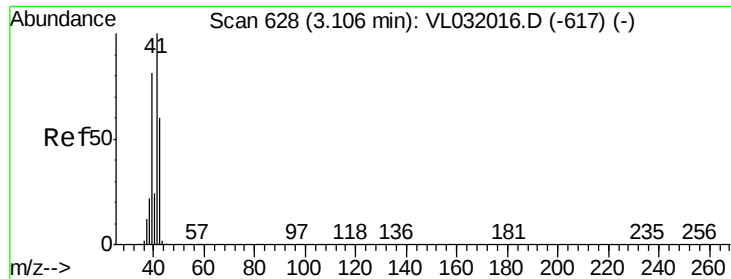
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500000

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Time-->





#9

Propene

Concen: 10.50 ppbv

RT: 3.10 min Scan# 627

Delta R.T. -0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 444379

Ion Ratio Lower Upper

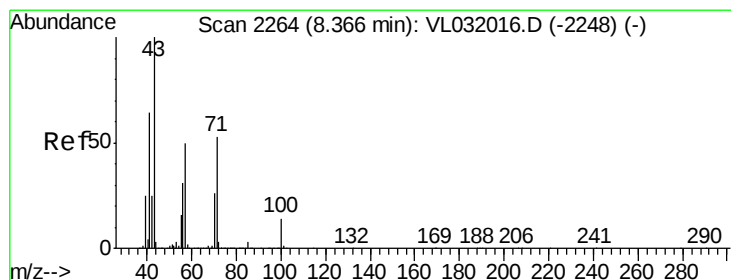
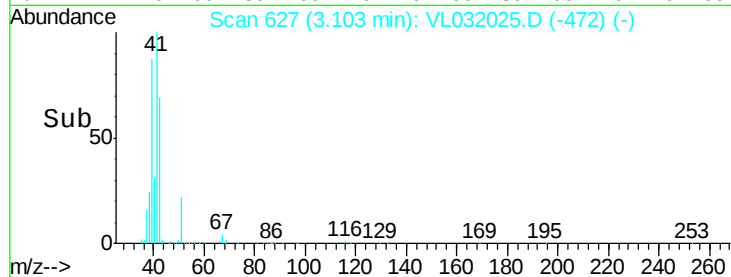
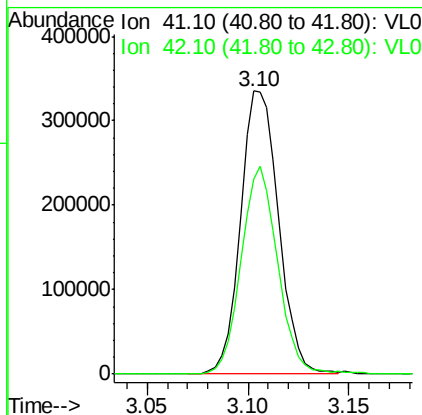
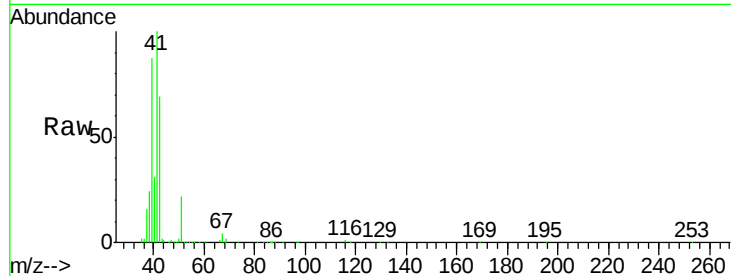
41 100

42 70.9 54.4 81.6

Manual Integrations
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#10

Heptane

Concen: 10.24 ppbv

RT: 8.37 min Scan# 2264

Delta R.T. 0.00 min

Lab File: VL032025.D

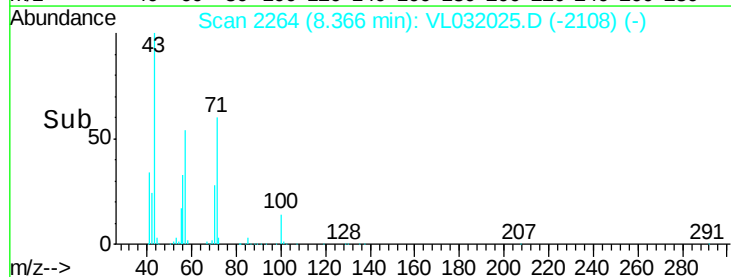
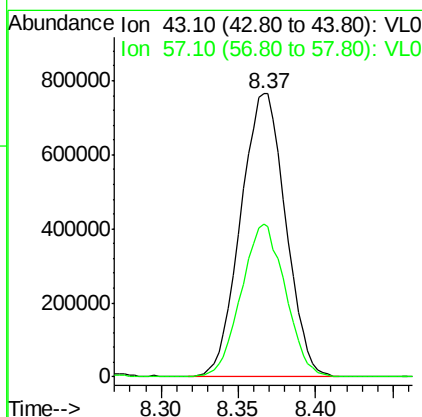
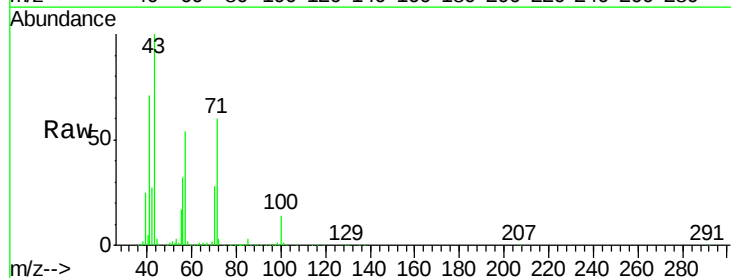
Acq: 1 Jun 2018 15:57

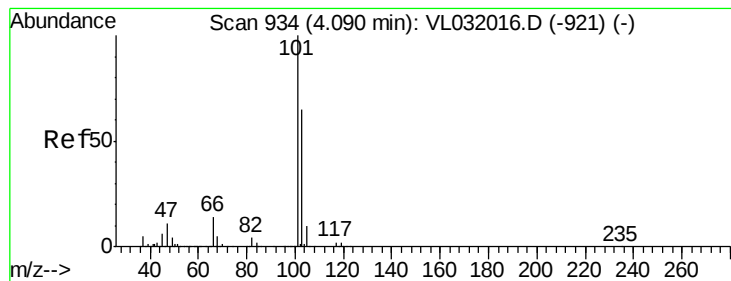
Tgt Ion: 43 Resp: 1536216

Ion Ratio Lower Upper

43 100

57 53.3 41.7 62.5





#11

Trichlorofluoromethane

Concen: 7.55 ppbv

RT: 4.09 min Scan# 935

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 1925425

Ion Ratio Lower Upper

101 100

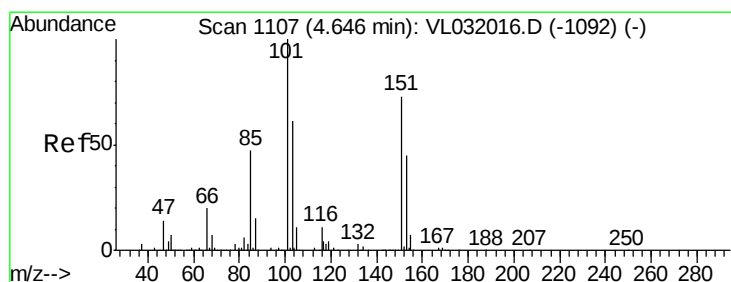
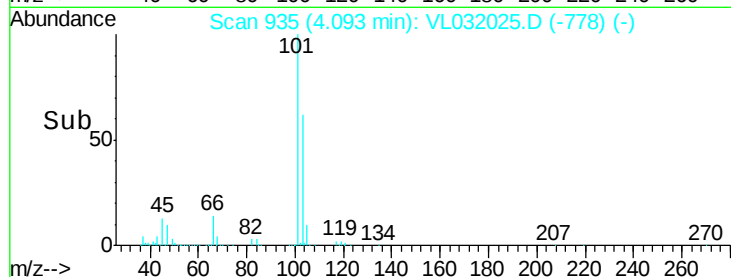
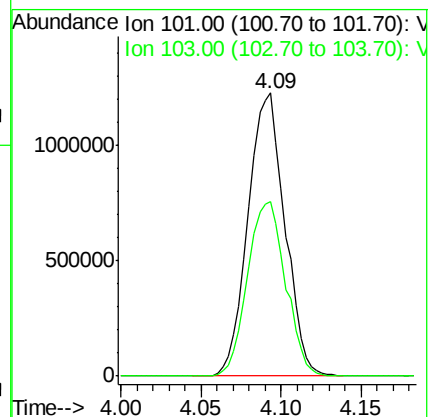
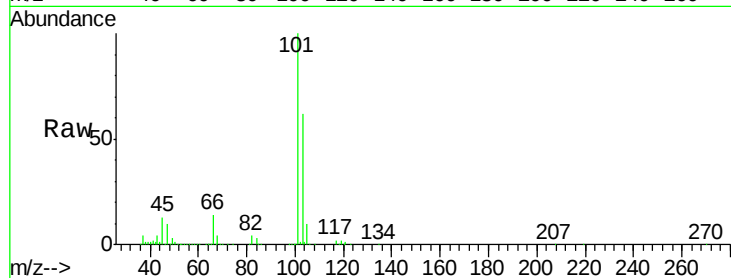
103 61.7 52.0 78.0

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.86 ppbv

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VL032025.D

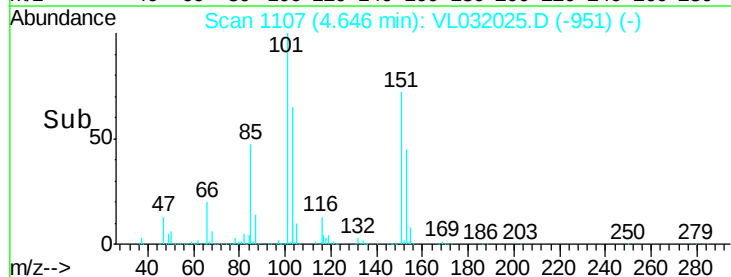
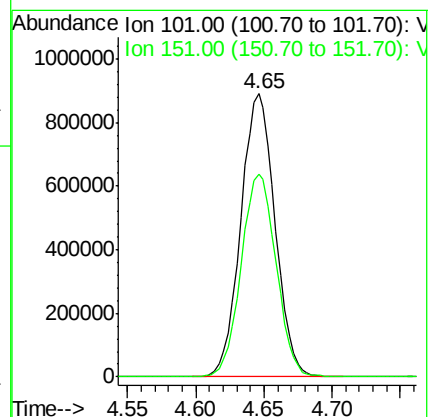
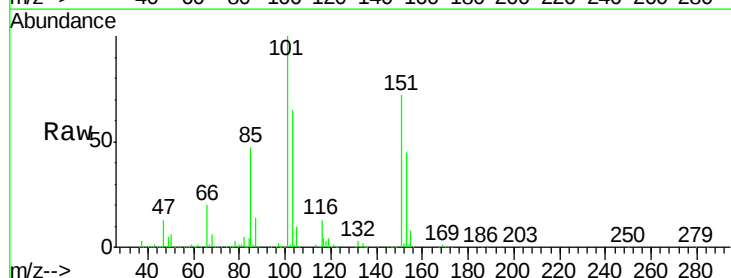
Acq: 1 Jun 2018 15:57

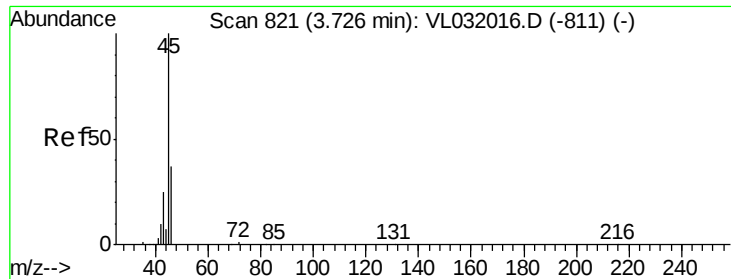
Tgt Ion:101 Resp: 1549378

Ion Ratio Lower Upper

101 100

151 73.2 58.2 87.4





#13

Ethanol

Concen: 8.18 ppbv

RT: 3.73 min Scan# 822

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 135354

Ion Ratio Lower Upper

45 100

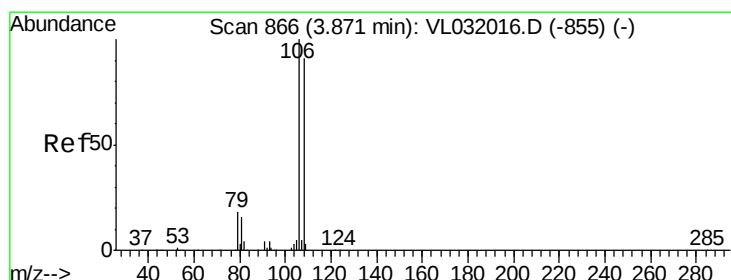
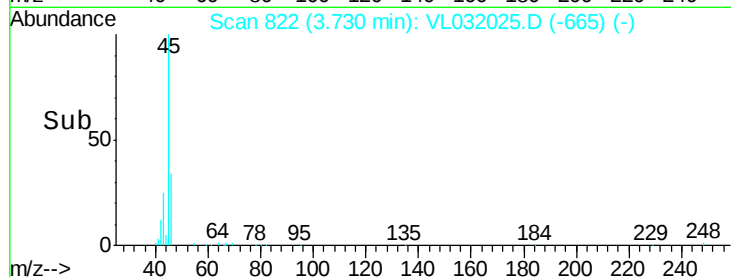
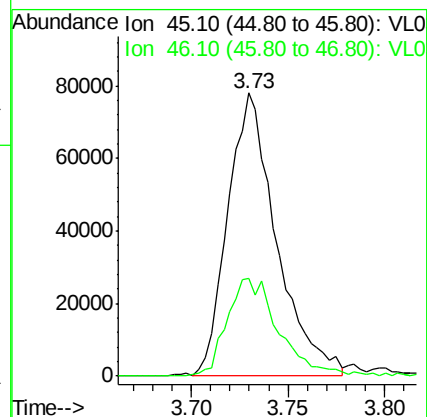
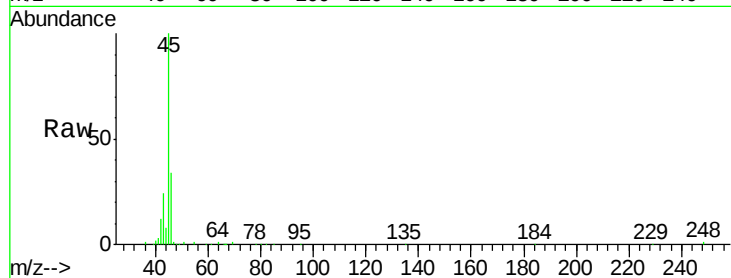
46 37.7 14.9 59.5

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#14

Bromoethene

Concen: 8.58 ppbv

RT: 3.87 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

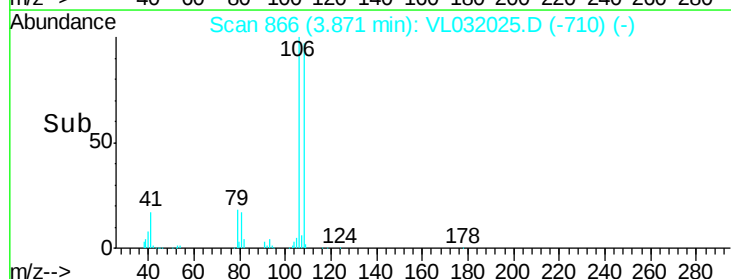
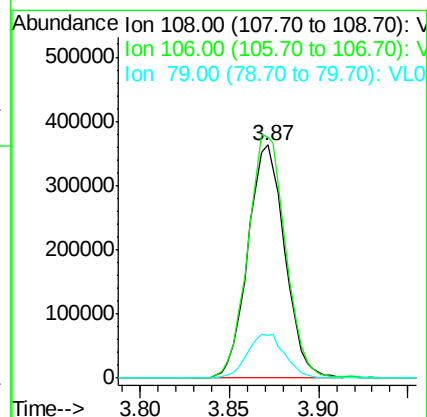
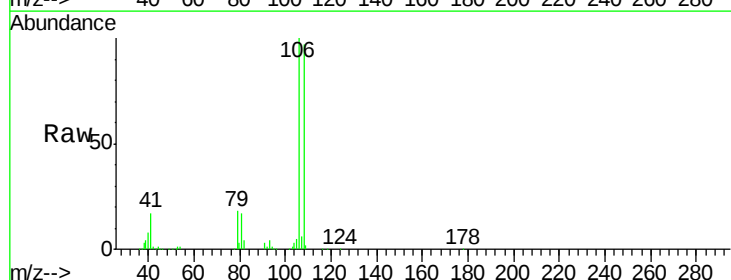
Tgt Ion: 108 Resp: 527451

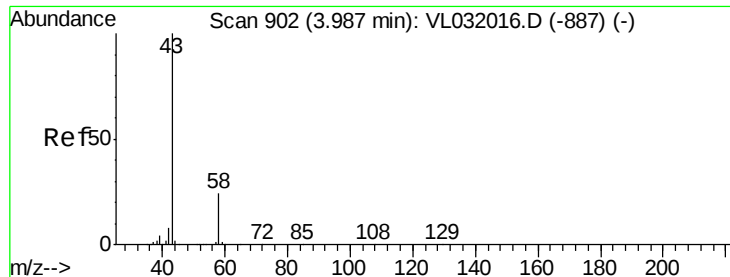
Ion Ratio Lower Upper

108 100

106 106.7 85.1 127.7

79 19.6 15.2 22.8





#15

Acetone

Concen: 7.93 ppbv

RT: 3.98 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1317703

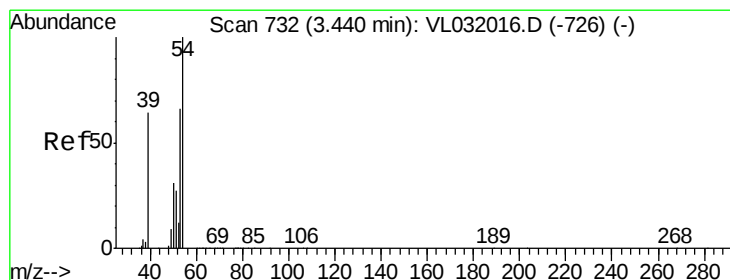
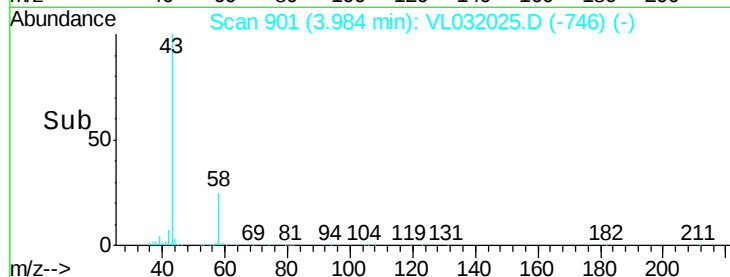
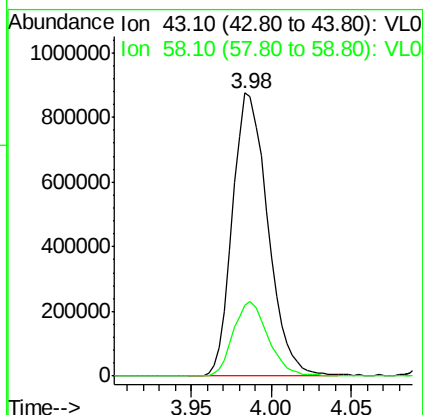
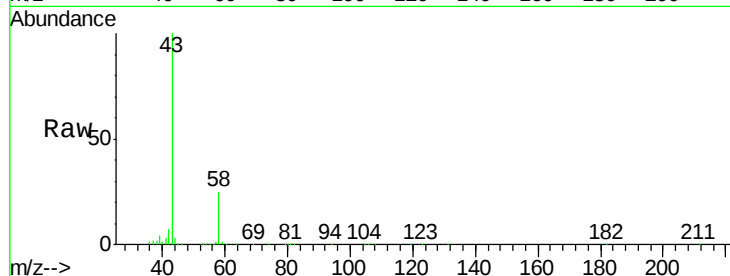
Ion Ratio Lower Upper

43 100

58 26.1 20.7 31.1

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#16

1,3-Butadiene

Concen: 9.54 ppbv

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VL032025.D

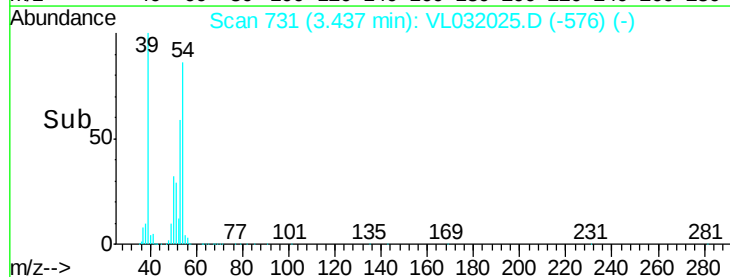
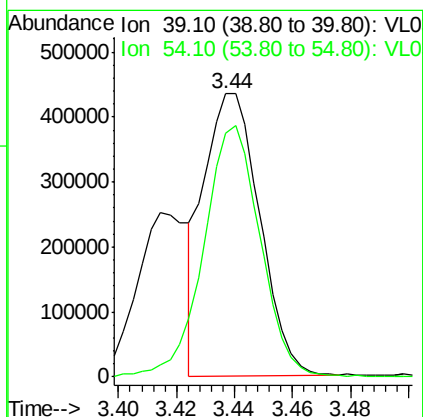
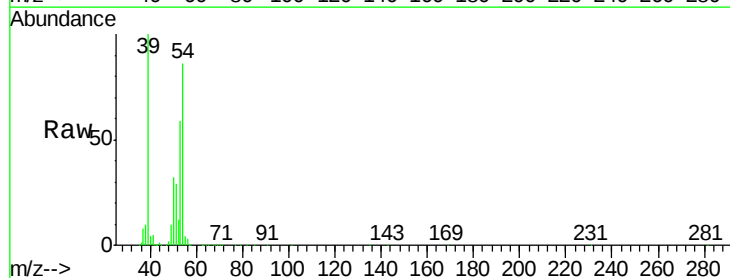
Acq: 1 Jun 2018 15:57

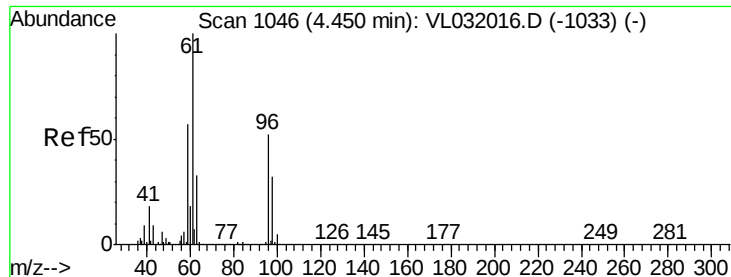
Tgt Ion: 39 Resp: 578538

Ion Ratio Lower Upper

39 100

54 91.1 65.7 98.5





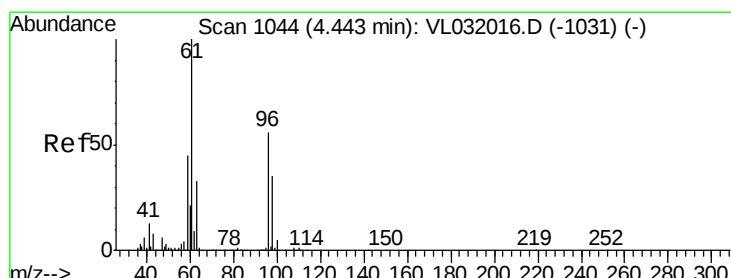
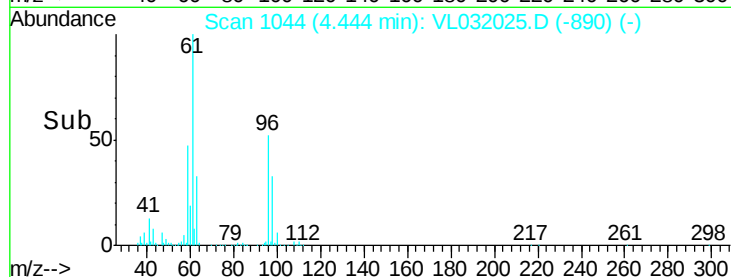
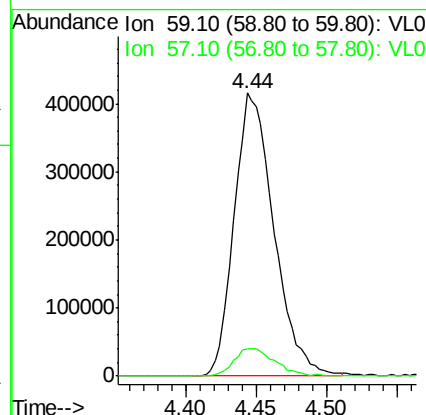
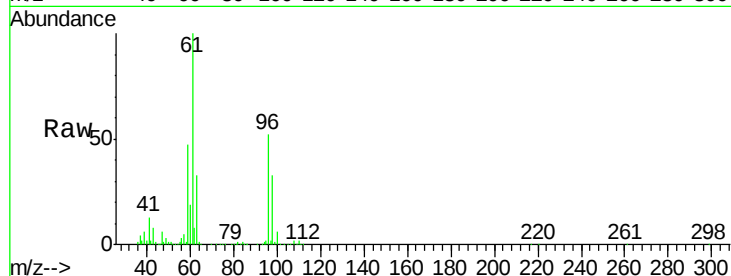
#17
tert-Butyl alcohol
Concen: 10.30 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 820925
Ion Ratio Lower Upper
59 100
57 10.3 8.3 12.5

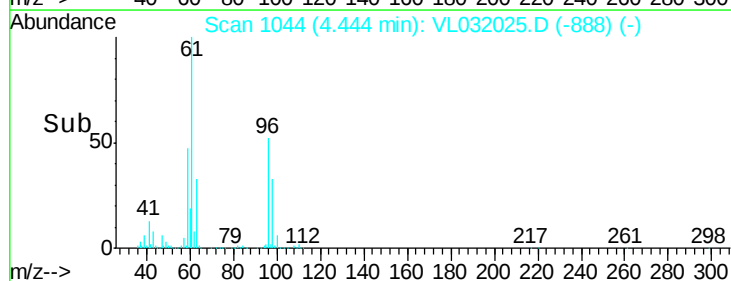
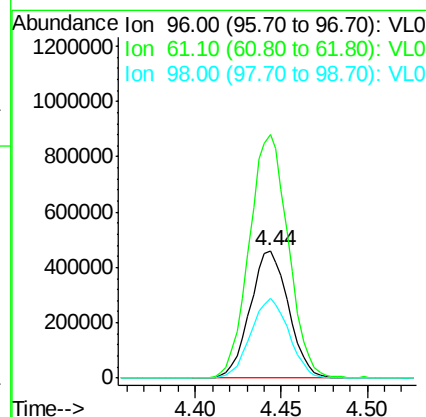
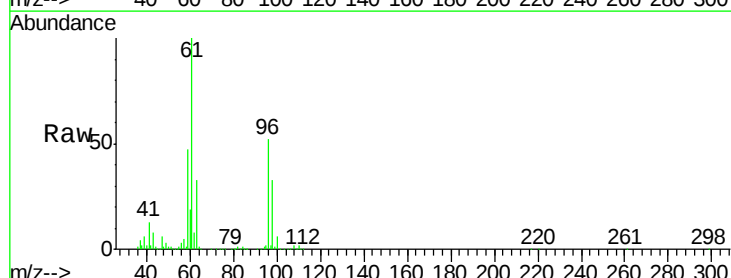
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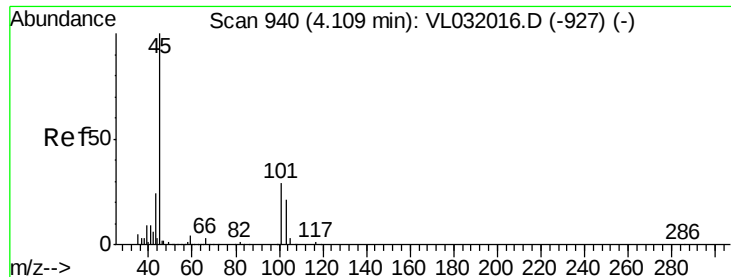
MMDadoda
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#18
1,1-Dichloroethene
Concen: 9.37 ppbv
RT: 4.44 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion: 96 Resp: 712283
Ion Ratio Lower Upper
96 100
61 190.6 143.5 215.3
98 62.1 50.0 75.0





#19

Isopropyl Alcohol

Concen: 9.81 ppbv

RT: 4.11 min Scan# 940

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tot Ion: 45 Resp: 1078359

Ion Ratio Lower Upper

45 100

58 1.7 1.5 2.3

Instrument :

MSVOA_L

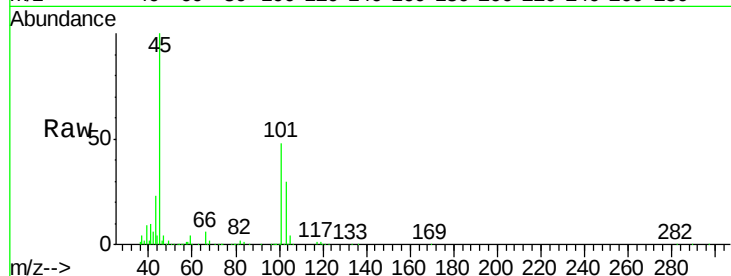
ClientSampleId :

VSTDCCC010

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.11

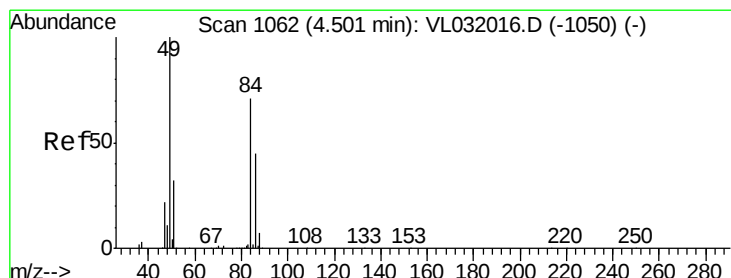
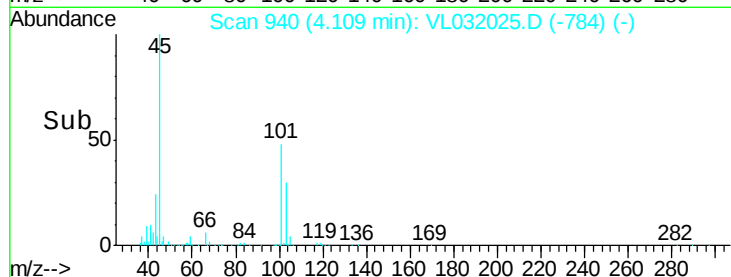
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.71 ppbv

RT: 4.50 min Scan# 1061

Delta R.T. -0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tgt Ion: 84 Resp: 657293

Ion Ratio Lower Upper

84 100

49 143.6 113.0 169.4

51 45.9 36.4 54.6

86 62.2 51.0 76.6

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

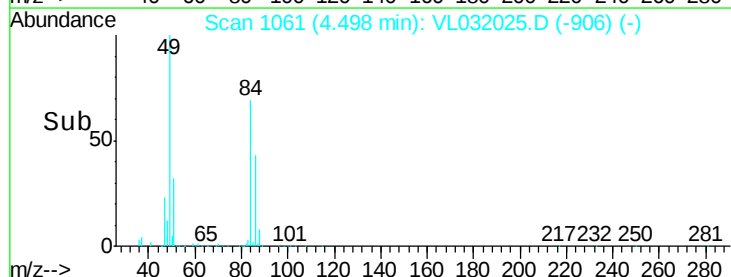
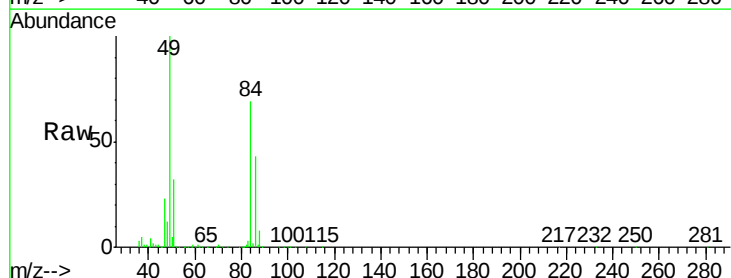
600000

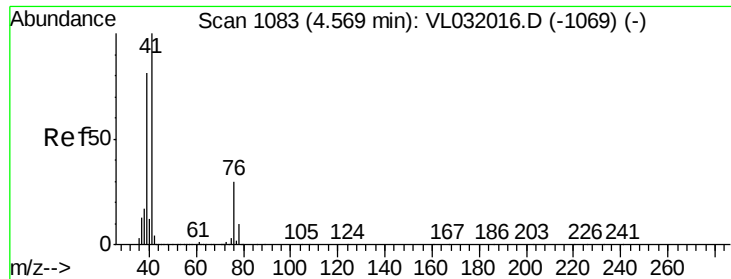
400000

200000

0

Time-->





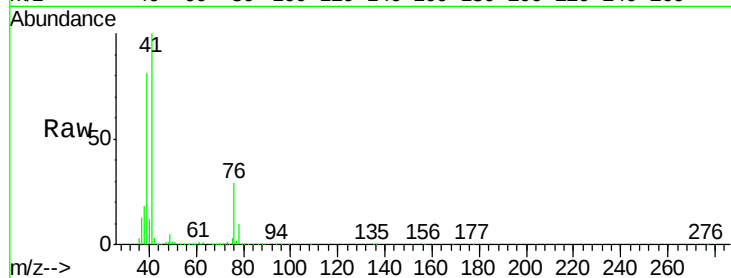
#21
Allvl Chloride
Concen: 9.69 ppbv
RT: 4.57 min Scan# 1083
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

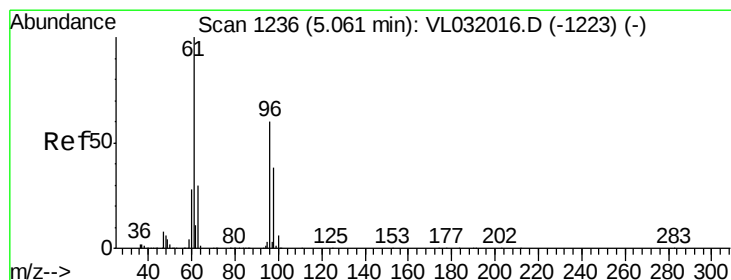
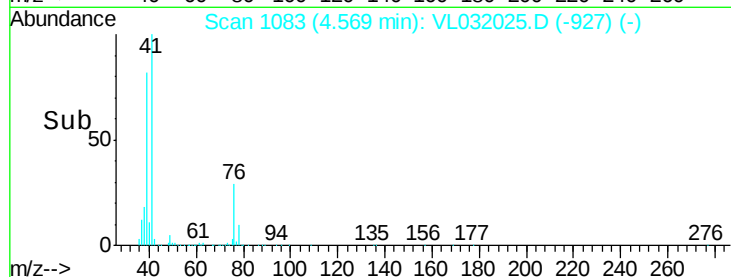
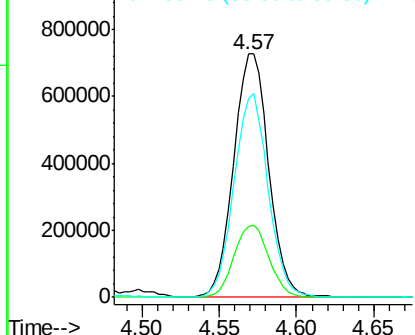
Tot Ion	Ratio	Lower	Upper
41	100		
76	29.9	23.9	35.9
39	82.2	65.9	98.9

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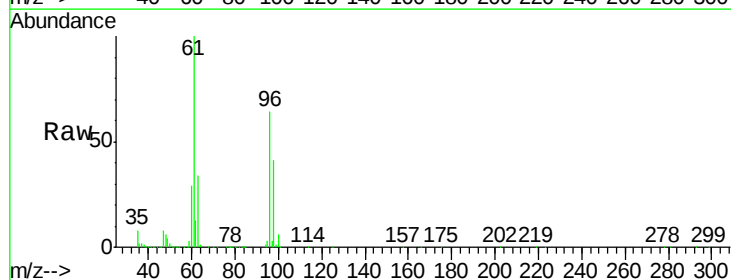


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

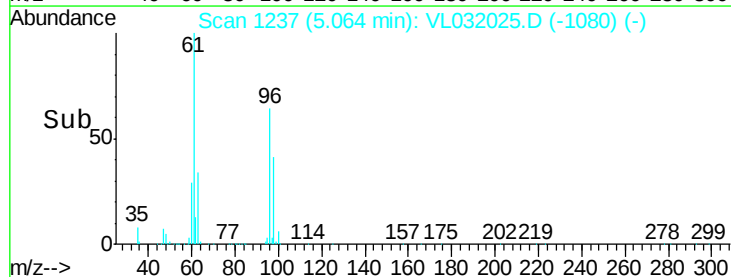
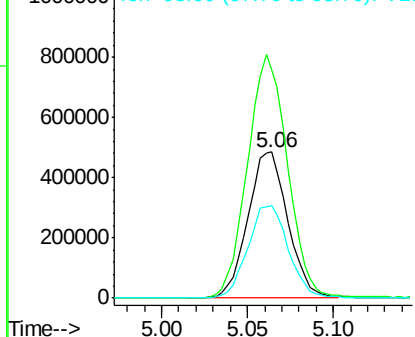


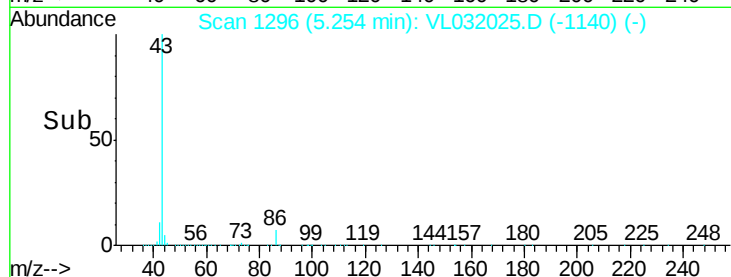
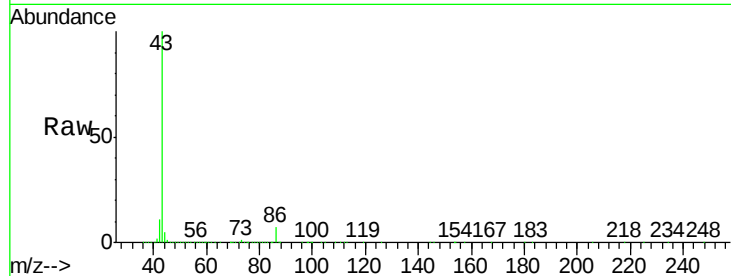
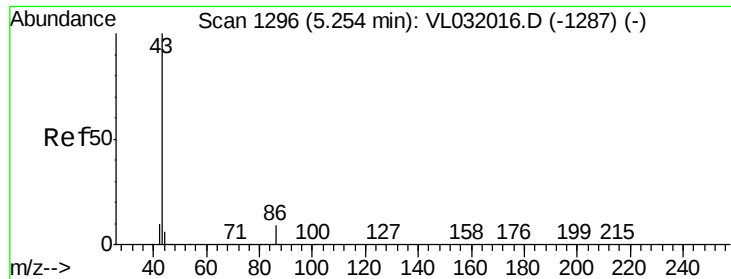
#22
trans-1,2-Dichloroethene
Concen: 9.53 ppbv
RT: 5.06 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.5	133.3	199.9
98	63.6	51.0	76.4



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





#23

Vinyl Acetate

Concen: 10.30 ppbv

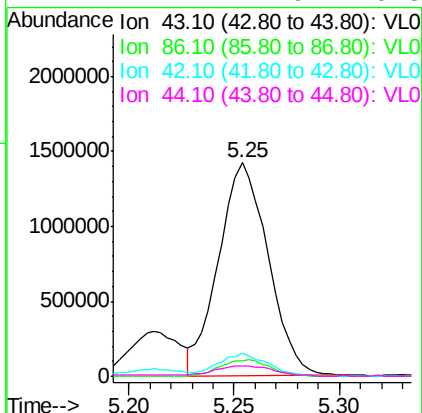
RT: 5.25 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tot Ion	43	Resp	2315211
Ion	Ratio	Lower	Upper
43	100		
86	7.2	6.2	9.4
42	10.5	8.7	13.1
44	4.7	4.6	6.8



Instrument :

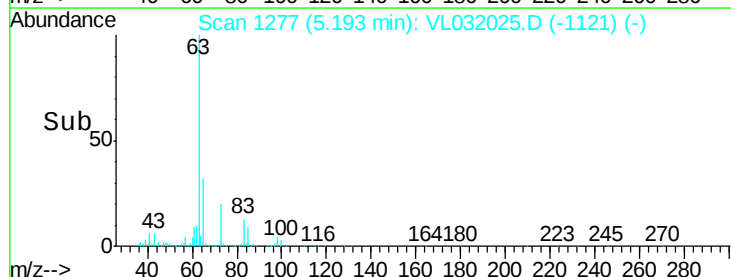
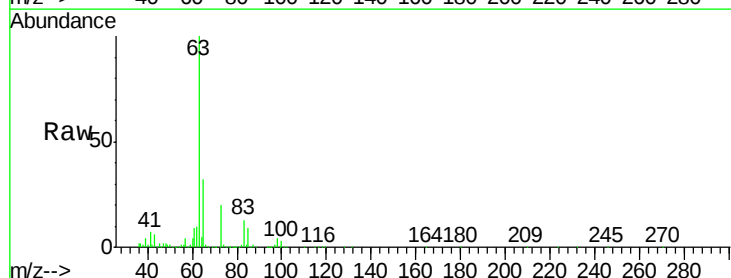
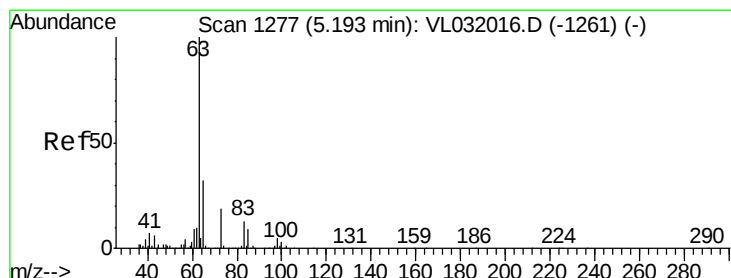
MSVOA_L

ClientSampleId :

VSTDCCC010

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#24

1,1-Dichloroethane

Concen: 9.42 ppbv

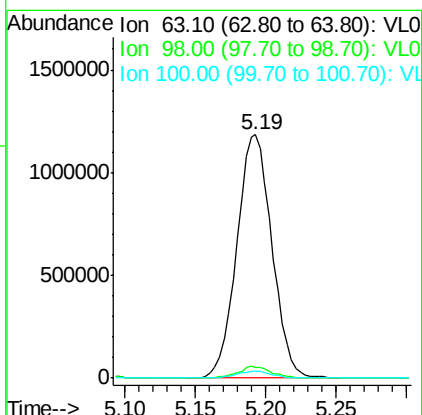
RT: 5.19 min Scan# 1277

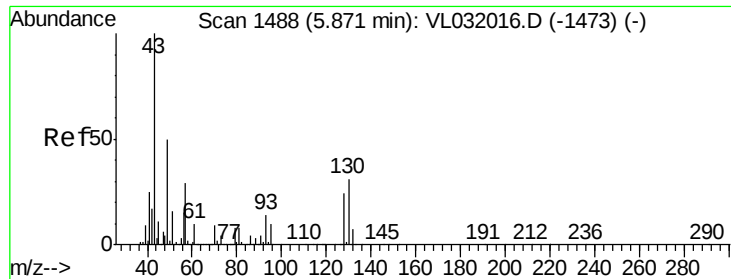
Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tgt Ion	63	Resp	2060862
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.1
100	2.7	1.5	4.5





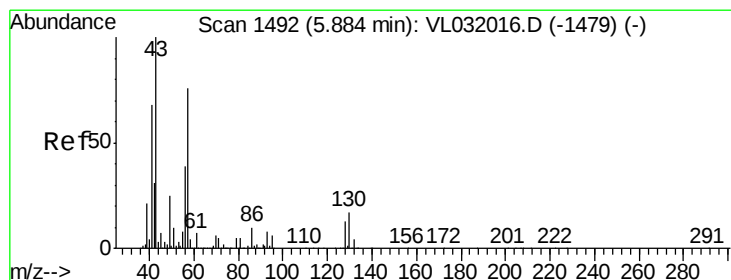
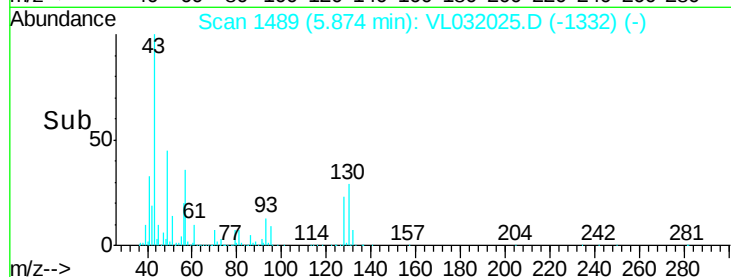
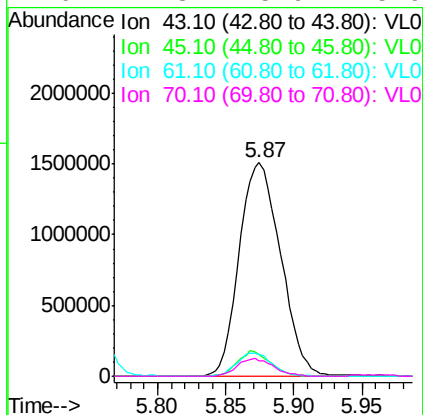
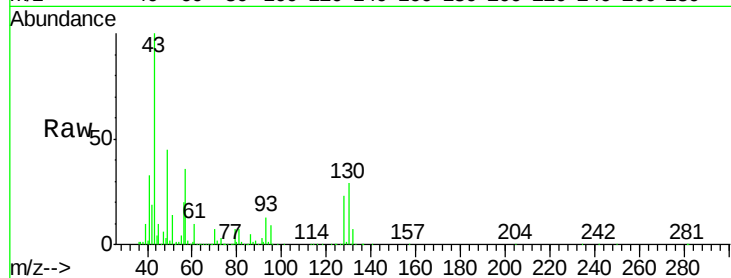
#25
Ethyl Acetate
Concen: 9.66 ppbv
RT: 5.87 min Scan# 1489
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	3176511
Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.6
61	9.3	7.4	11.2
70	7.3	5.9	8.9

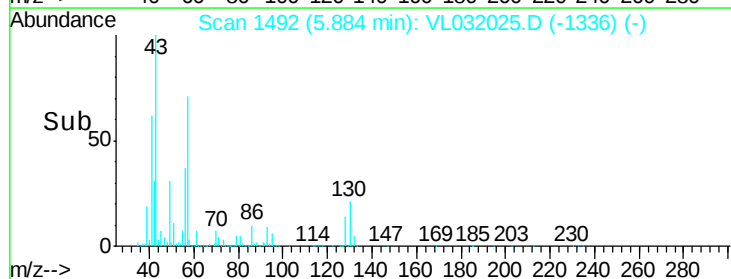
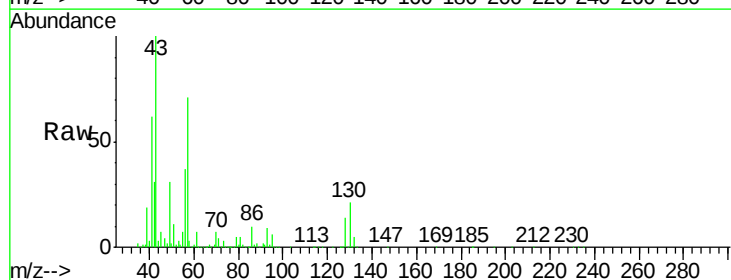
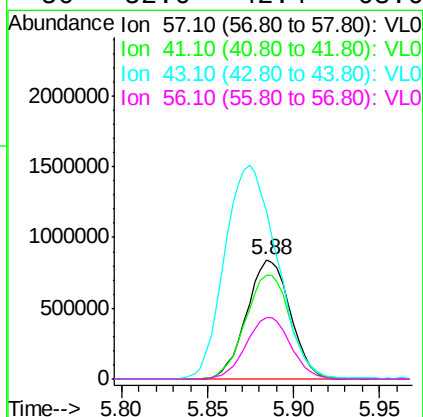
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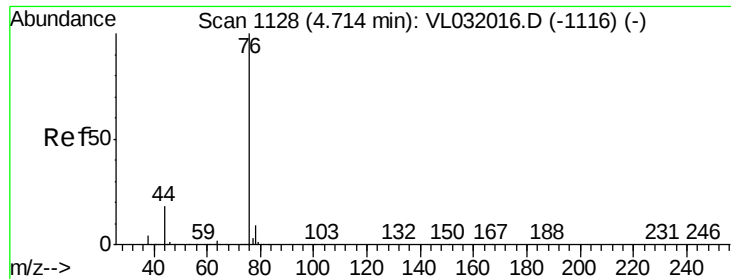
MMDadoda
6/4/2018 3:35:44 PM



#26
Hexane
Concen: 9.69 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	57	Resp	1481828
Ion	Ratio	Lower	Upper
57	100		
41	90.6	71.4	107.2
43	215.6	168.6	252.8
56	52.6	42.4	63.6





#27

Carbon Disulfide

Concen: 9.83 ppbv

RT: 4.71 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

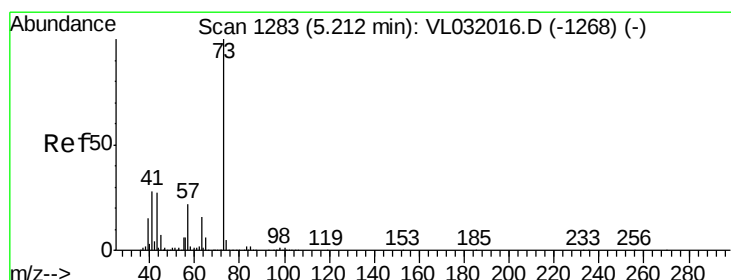
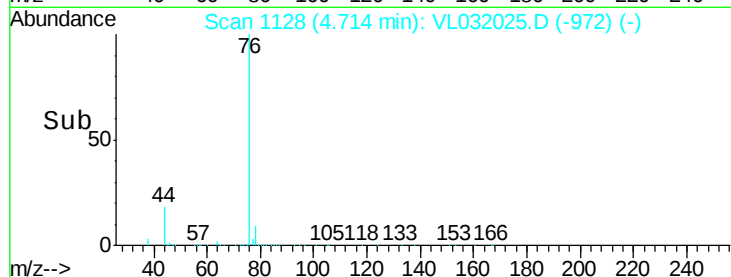
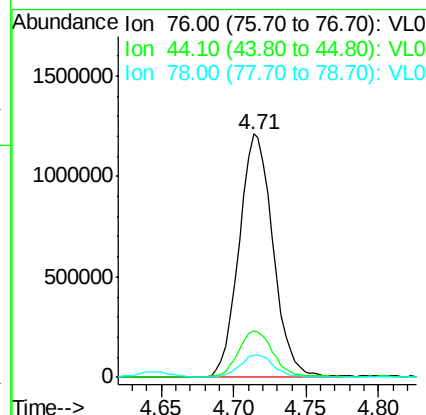
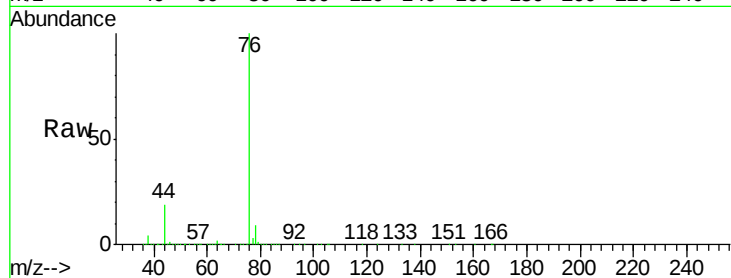
ClientSampleId :

VSTDCCC010

Tot Ion:	76	Resp:	1968634
Ion	Ratio	Lower	Upper
76	100		
44	19.0	14.9	22.3
78	9.1	7.6	11.4

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 10.71 ppbv

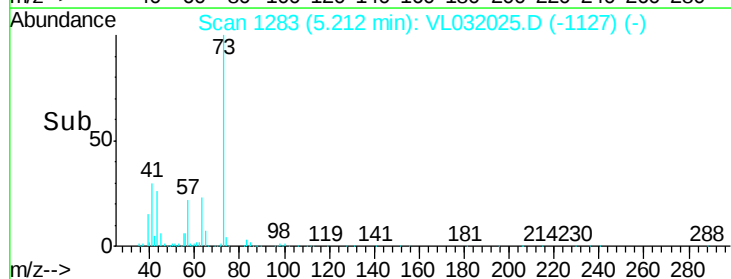
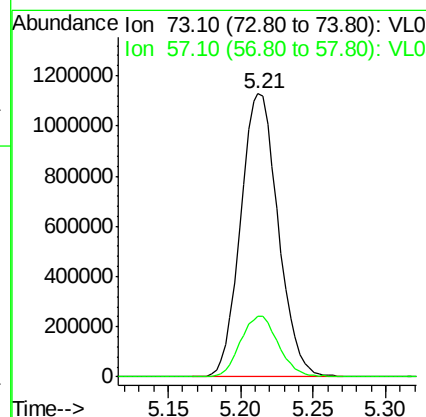
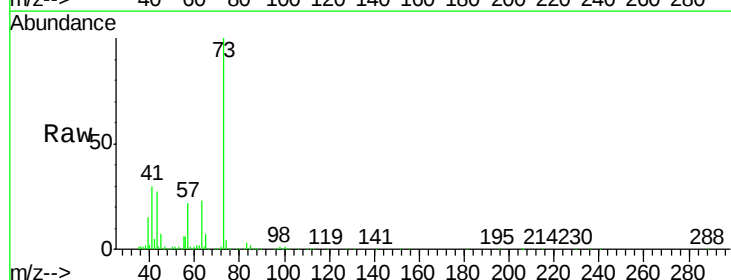
RT: 5.21 min Scan# 1283

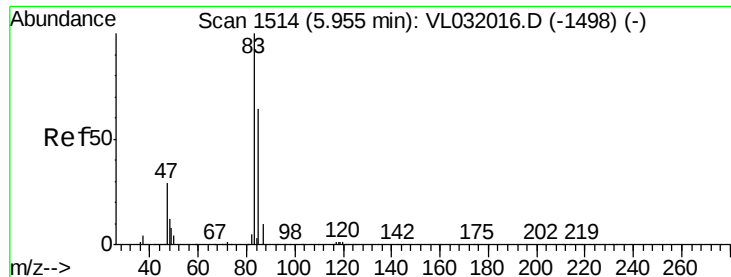
Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tgt Ion:	73	Resp:	2027289
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.8	26.8





#29

Chloroform

Concen: 9.14 ppbv

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2356985

Ion Ratio Lower Upper

83 100

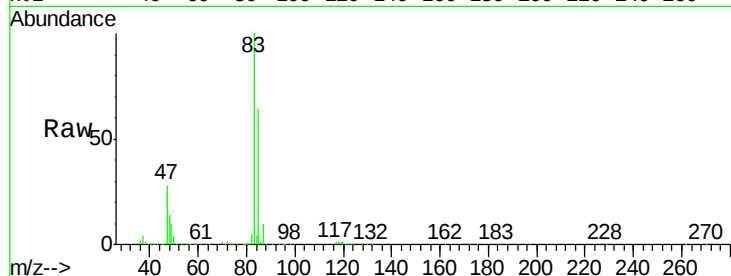
85 63.7 50.9 76.3

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

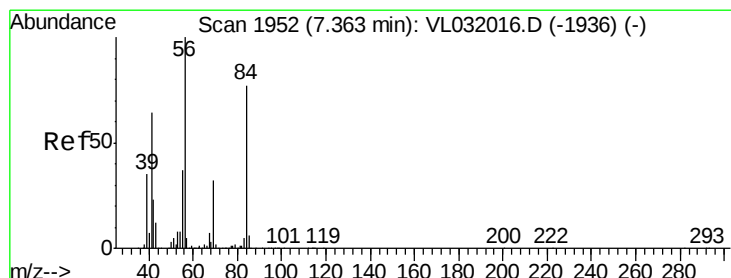
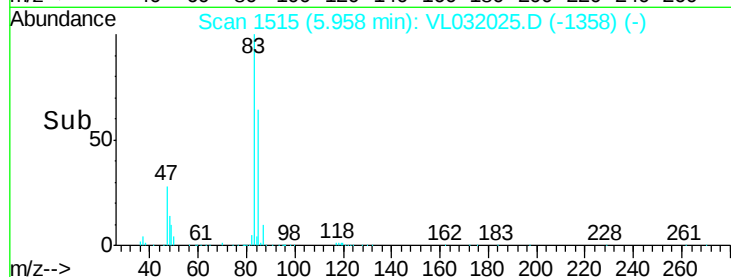
1500000

1000000

500000

0

Time--> 5.85 5.90 5.95 6.00 6.05



#30

Cyclohexane

Concen: 10.62 ppbv

RT: 7.36 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

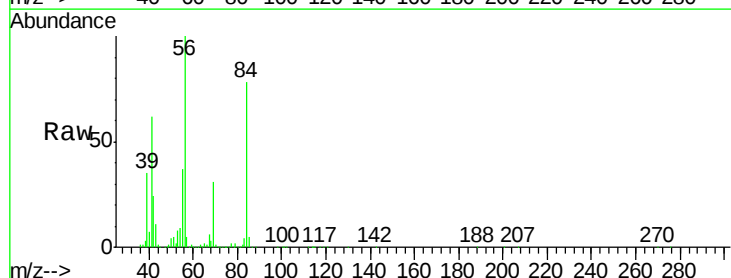
Tgt Ion: 84 Resp: 959068

Ion Ratio Lower Upper

84 100

56 132.5 108.6 162.8

41 80.7 66.8 100.2



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

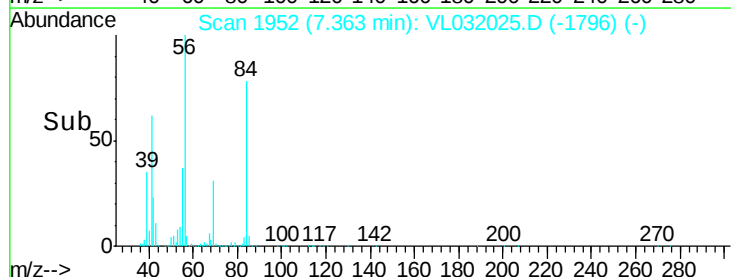
600000

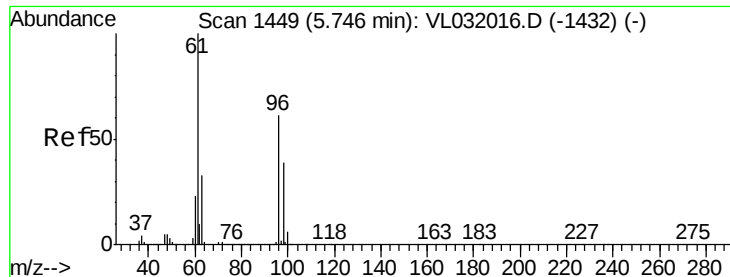
400000

200000

0

Time--> 7.30 7.35 7.40





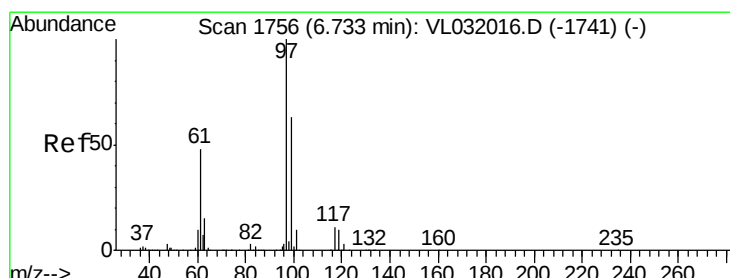
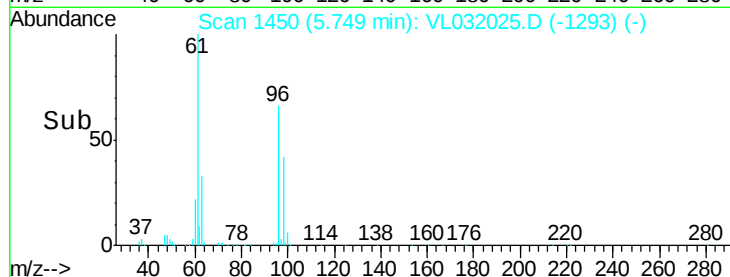
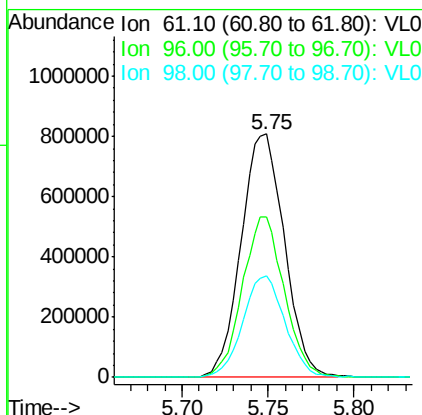
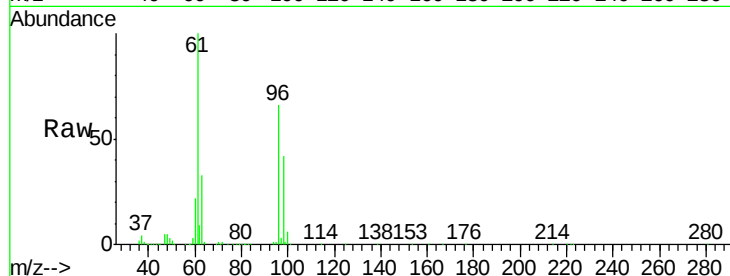
#31
 cis-1,2-Dichloroethene
 Concen: 10.29 ppbv
 RT: 5.75 min Scan# 1450
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 61 Resp: 1416057
 Ion Ratio Lower Upper
 61 100
 96 65.9 49.0 73.6
 98 41.9 31.2 46.8

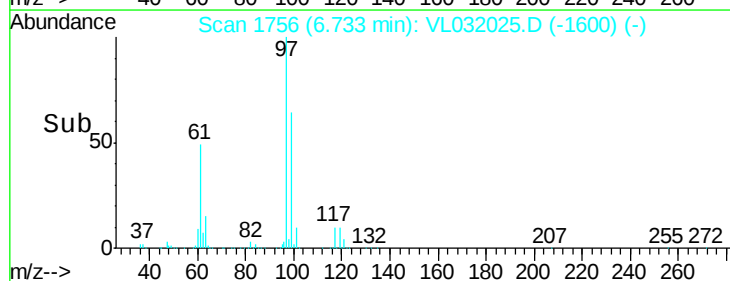
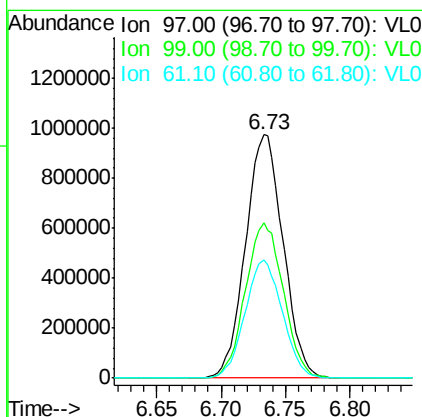
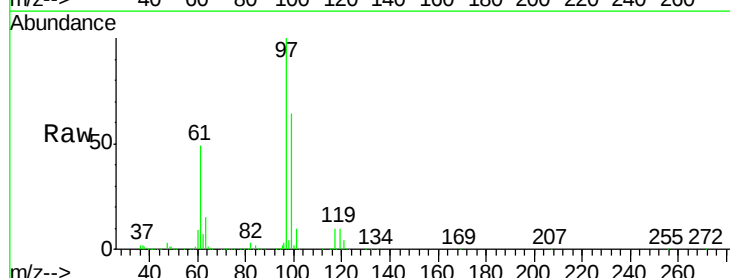
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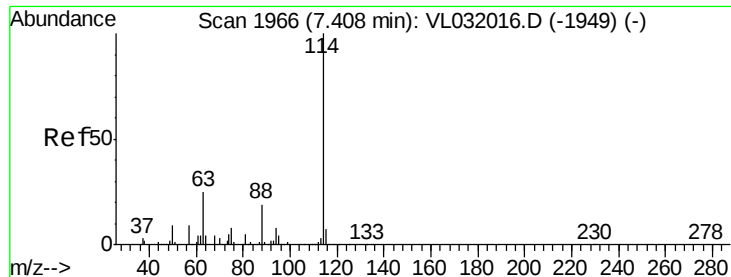
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#32
 1,1,1-Trichloroethane
 Concen: 9.43 ppbv
 RT: 6.73 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion: 97 Resp: 1982645
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.5 77.3
 61 48.2 39.4 59.2





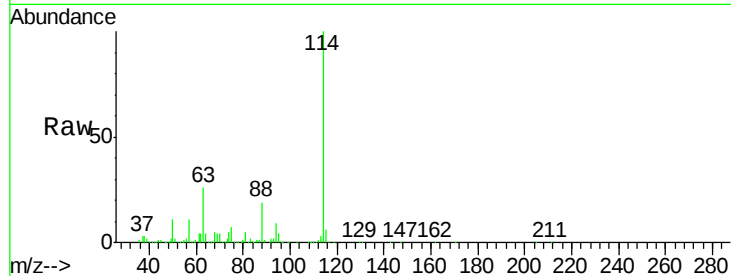
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.41 min Scan# 1967
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

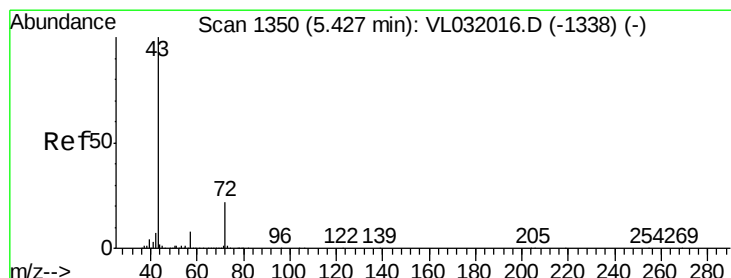
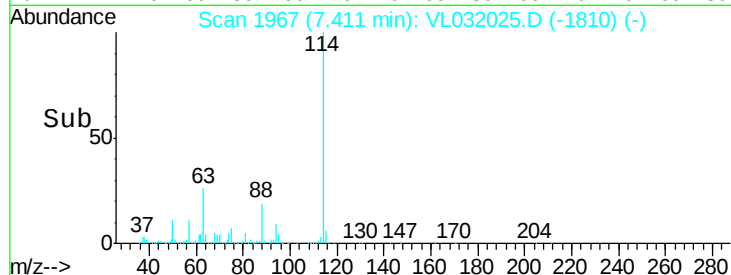
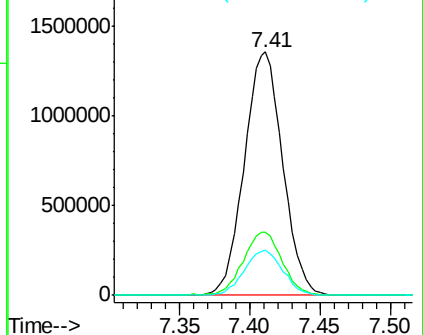
Tot Ion:114 Resp: 2587349
 Ion Ratio Lower Upper
 114 100
 63 26.8 21.1 31.7
 88 18.6 14.8 22.2

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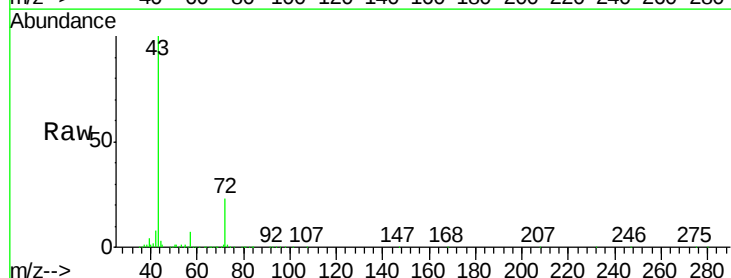


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

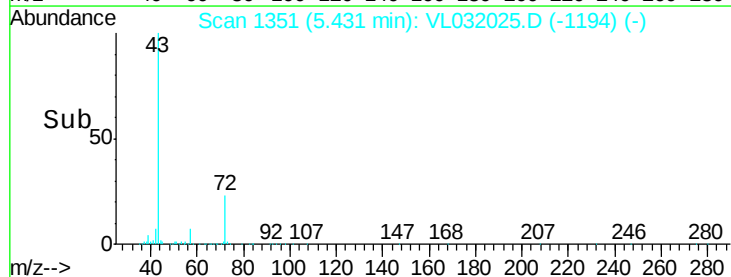
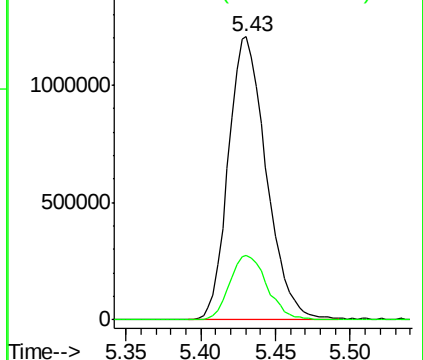


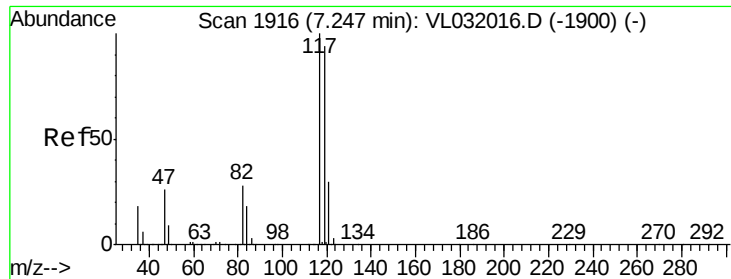
#34
 2-Butanone
 Concen: 10.44 ppbv
 RT: 5.43 min Scan# 1351
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion: 43 Resp: 2124168
 Ion Ratio Lower Upper
 43 100
 72 22.6 18.6 27.8



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





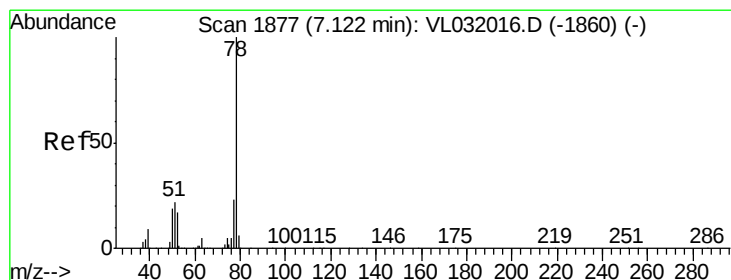
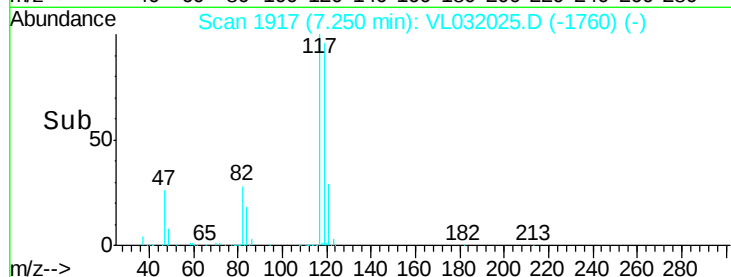
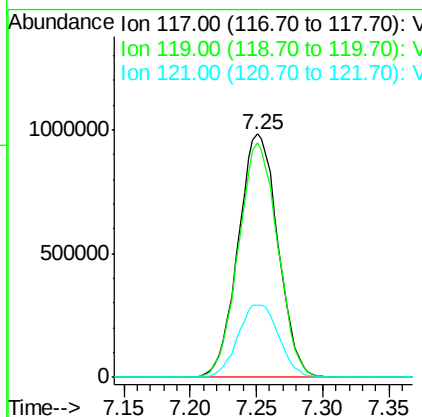
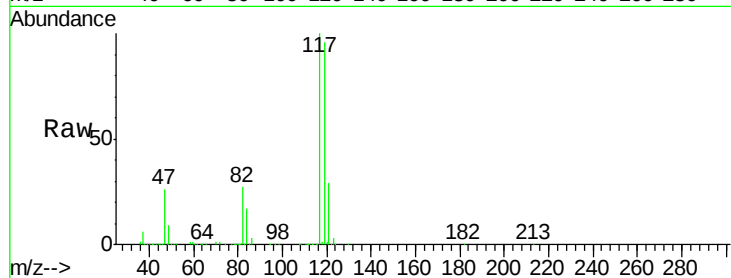
#35
Carbon Tetrachloride
Concen: 9.27 ppbv
RT: 7.25 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.3	112.9
121	29.4	24.1	36.1

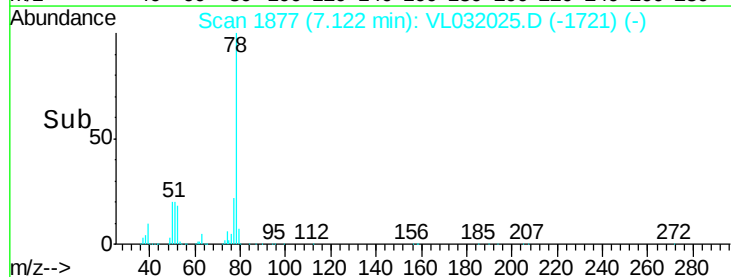
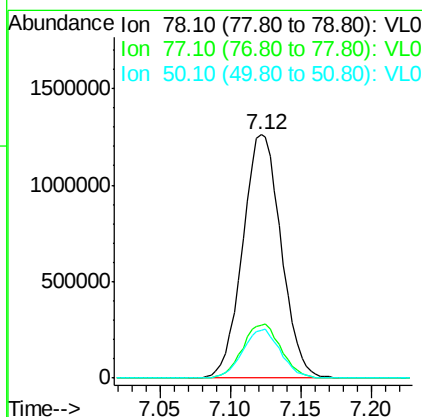
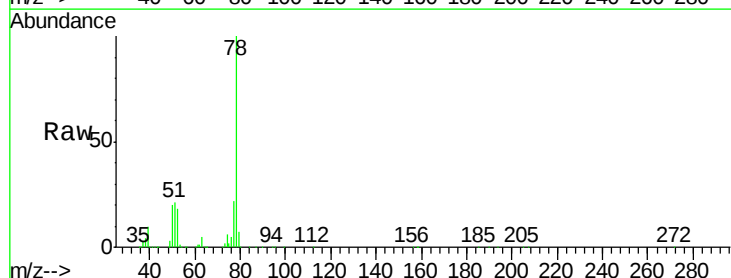
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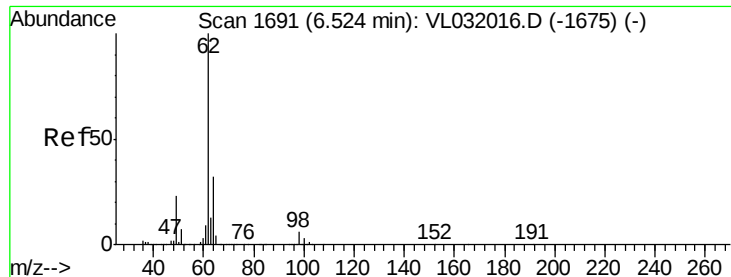
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#36
Benzene
Concen: 10.60 ppbv
RT: 7.12 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.1	27.1
50	19.6	14.9	22.3





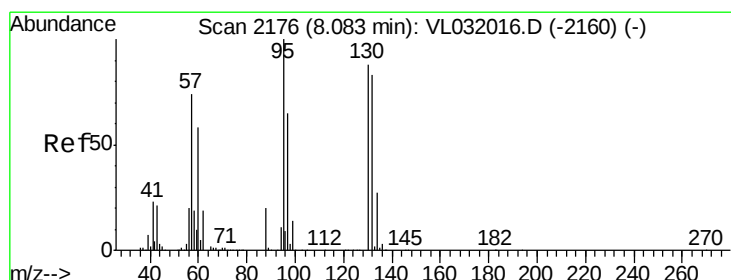
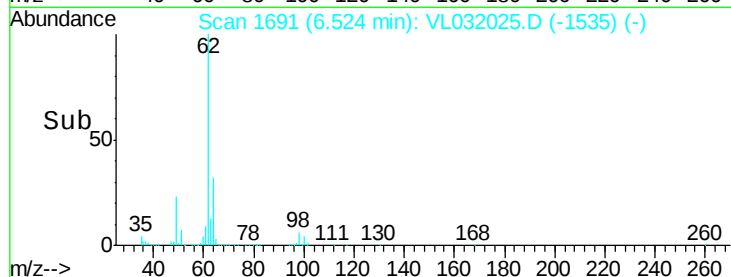
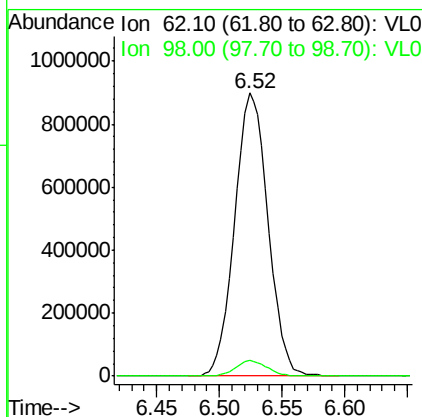
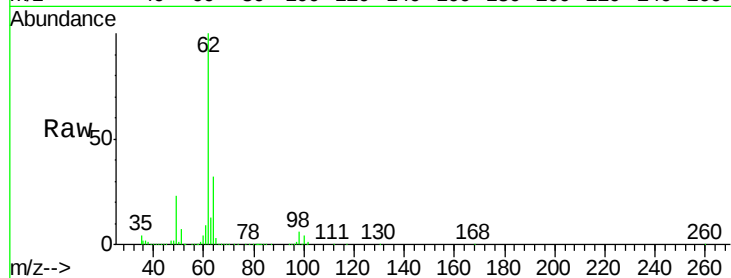
#37
1,2-Dichloroethane
Concen: 10.15 ppbv
RT: 6.52 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 62 Resp: 1665228
Ion Ratio Lower Upper
62 100
98 5.3 4.2 6.4

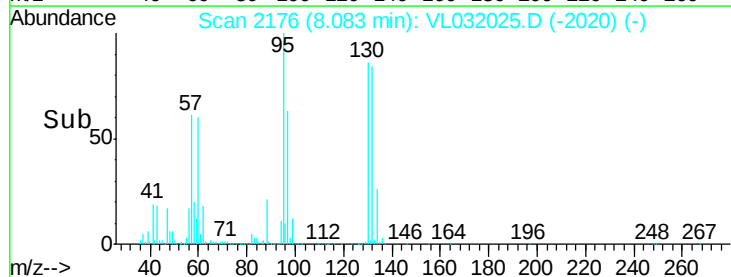
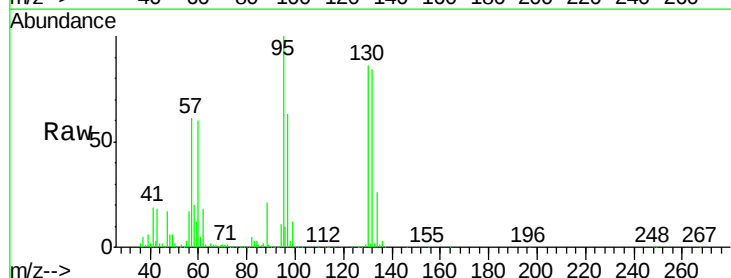
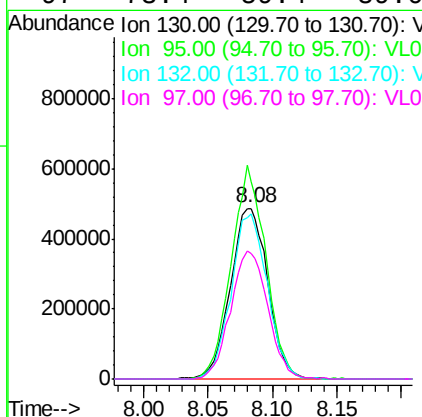
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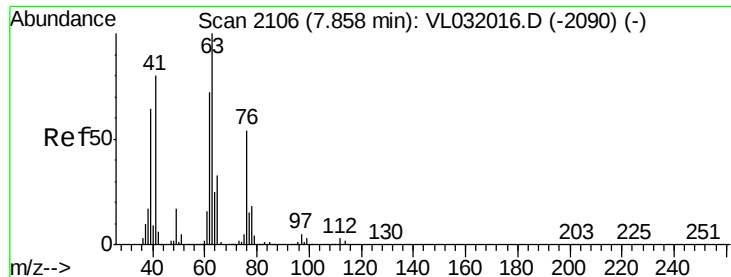
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#38
Trichloroethene
Concen: 11.19 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion:130 Resp: 975906
Ion Ratio Lower Upper
130 100
95 115.9 90.7 136.1
132 97.0 75.6 113.4
97 73.4 59.4 89.0





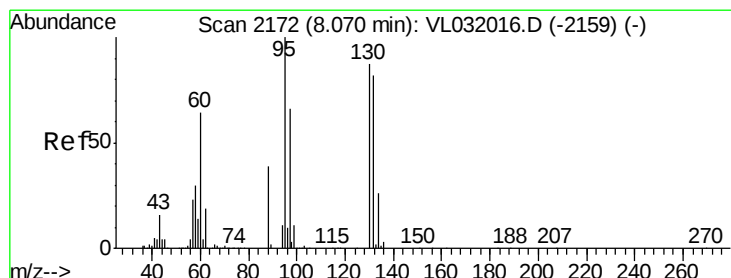
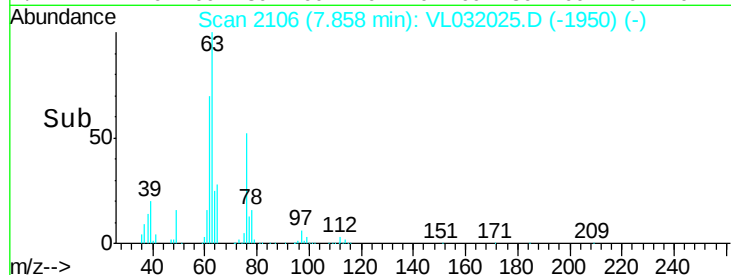
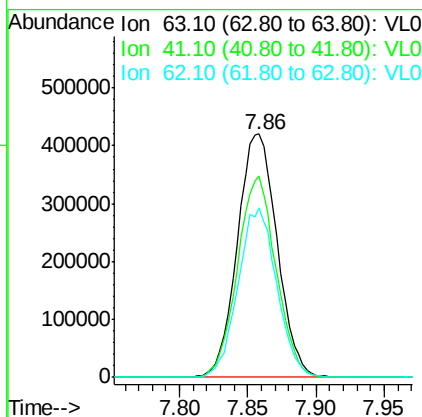
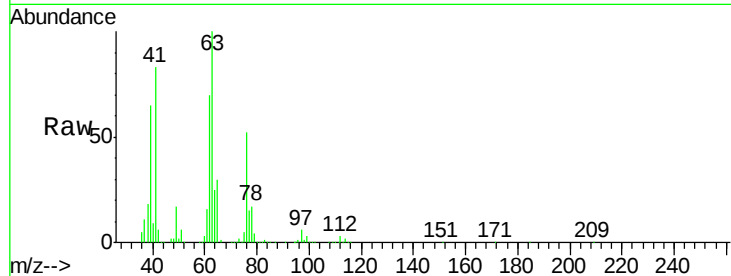
#39
 1,2-Dichloropropane
 Concen: 10.15 ppbv
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	82.4	64.0	96.0
62	69.4	57.6	86.4

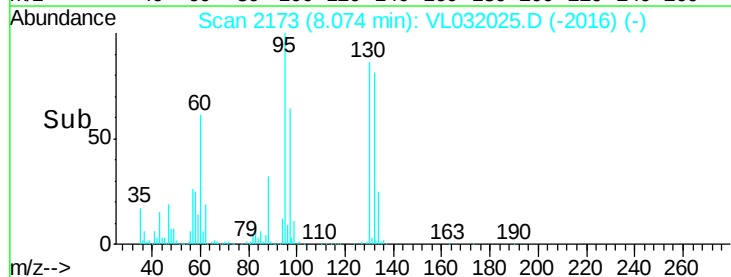
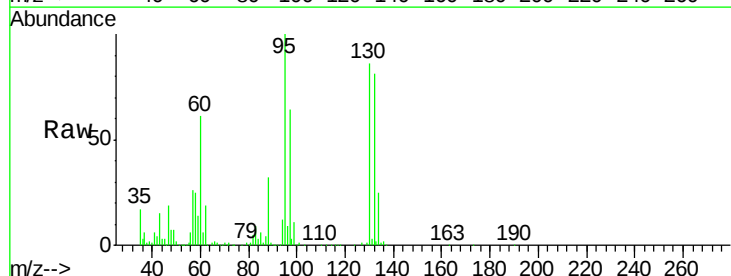
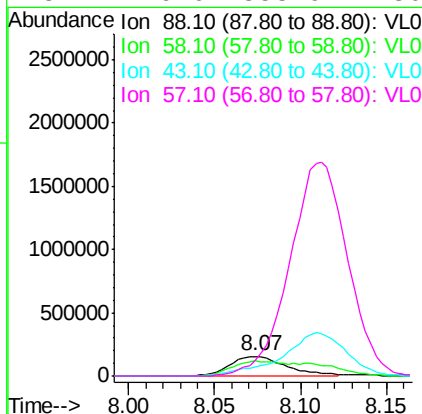
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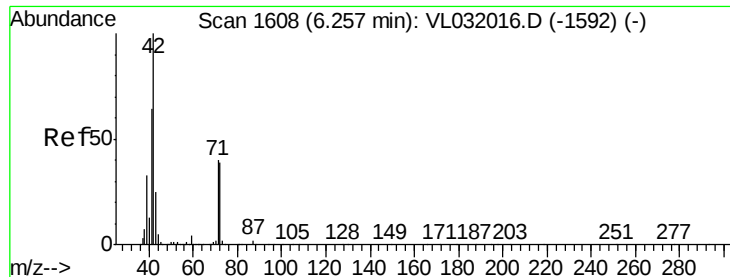
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#40
 1,4-Dioxane
 Concen: 9.58 ppbv
 RT: 8.07 min Scan# 2173
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.0	100.5	150.7
43	255.1	193.8	290.6
57	1146.0	853.9	1280.9





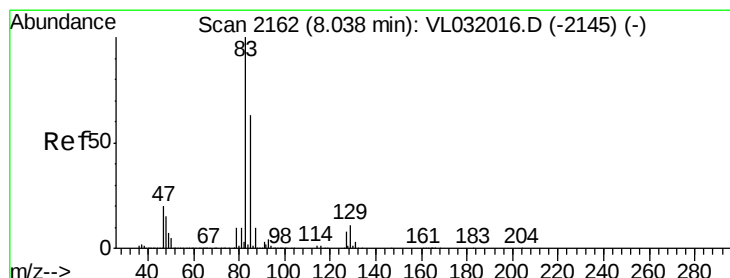
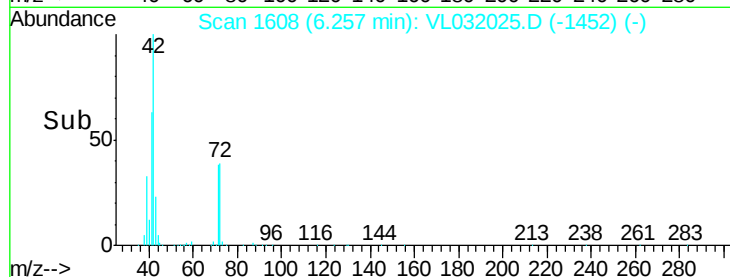
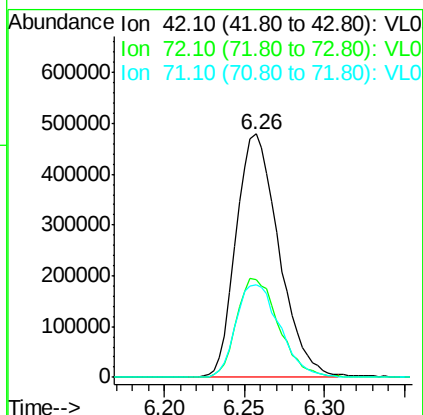
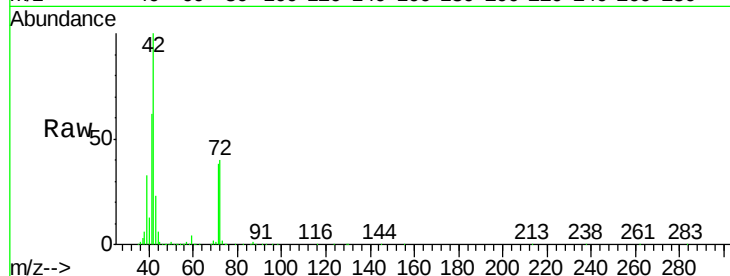
#41
Tetrahydrofuran
Concen: 10.02 ppbv
RT: 6.26 min Scan# 1608
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.3	48.5
71	39.3	32.3	48.5

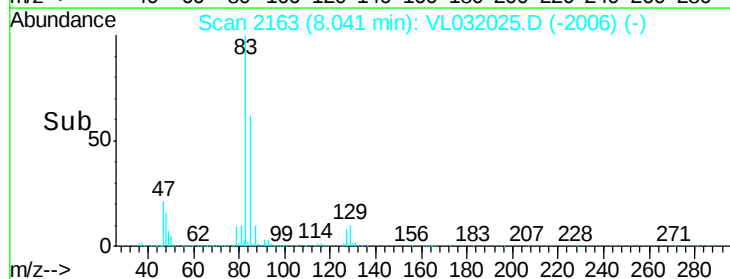
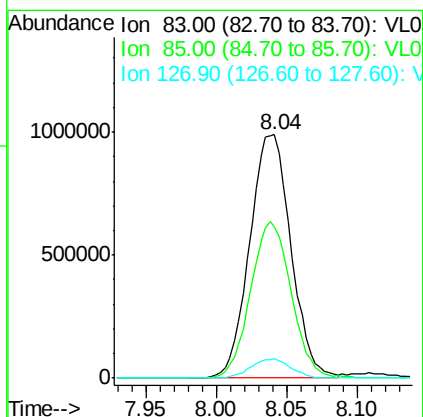
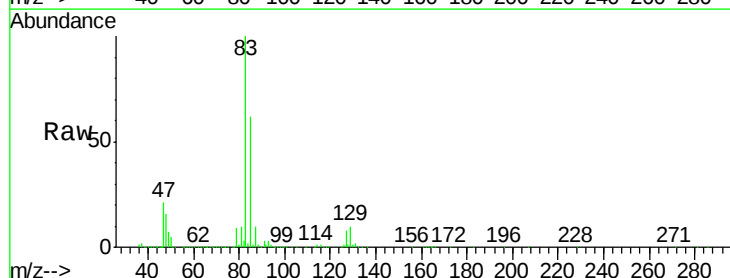
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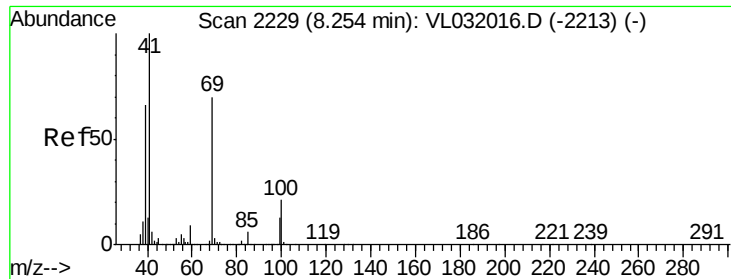
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#42
Bromodichloromethane
Concen: 9.88 ppbv
RT: 8.04 min Scan# 2163
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.3	75.5
127	8.1	6.6	9.8





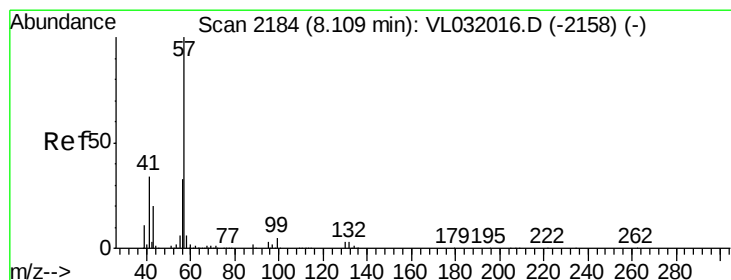
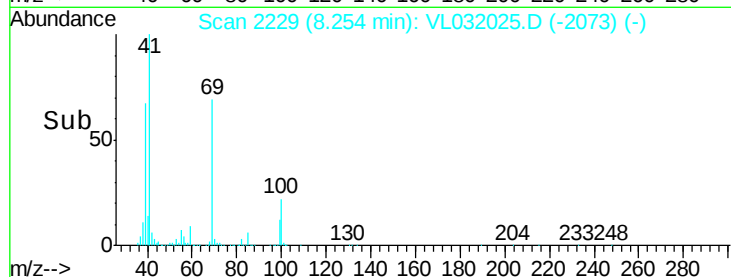
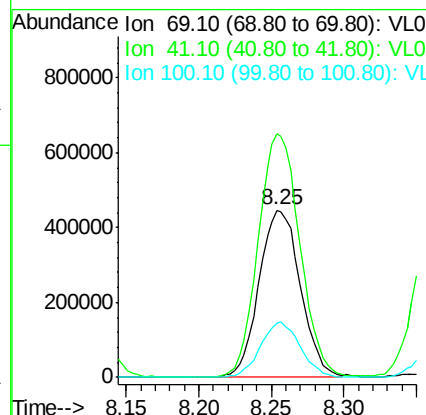
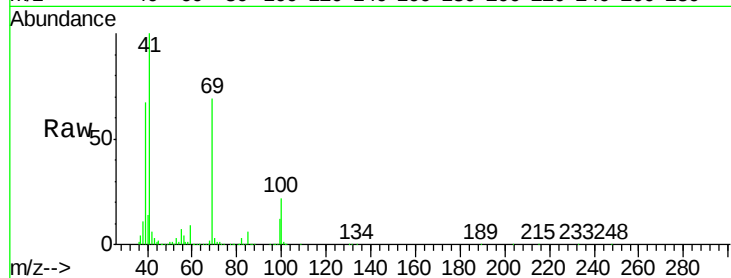
#43
Methvl Methacrylate
Concen: 11.17 ppbv
RT: 8.25 min Scan# 2229
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	146.6	115.5	173.3
100	32.0	25.4	38.0

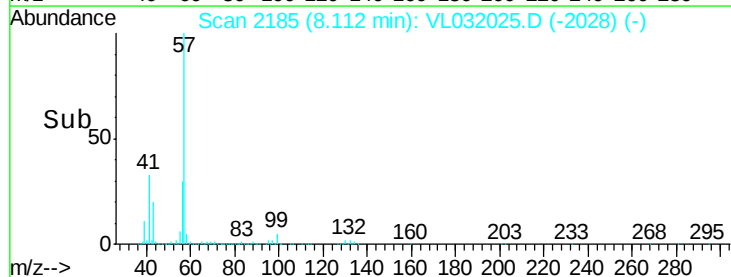
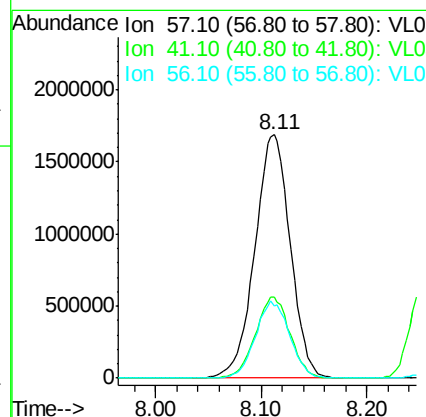
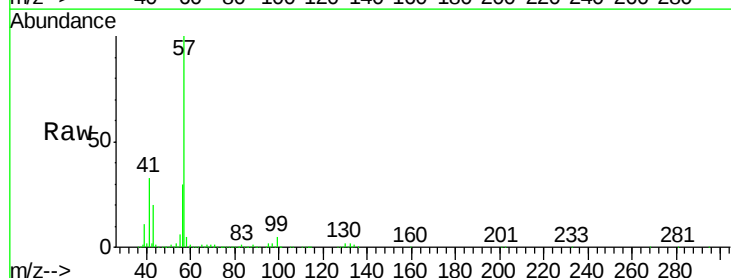
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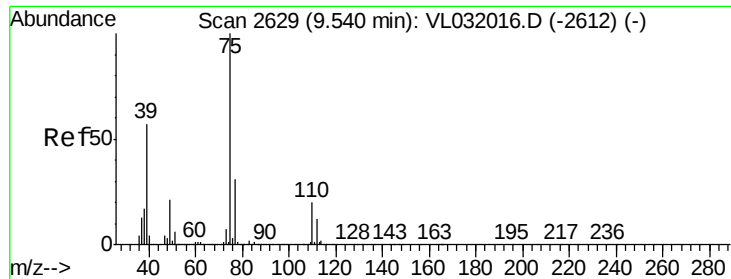
MMDadoda
6/4/2018 3:35:44 PM



#44
2,2,4-Trimethylpentane
Concen: 10.15 ppbv
RT: 8.11 min Scan# 2185
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.5	26.6	40.0
56	30.6	24.9	37.3





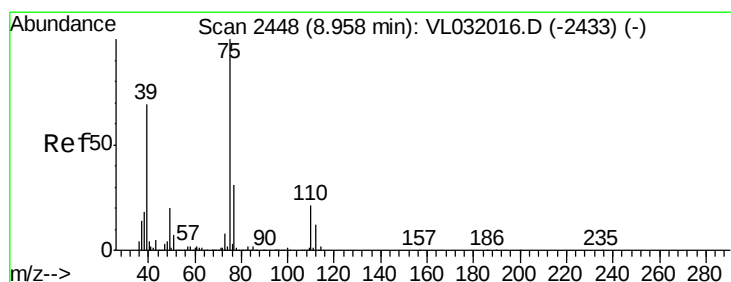
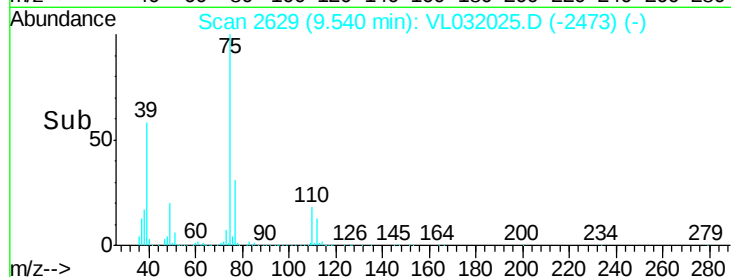
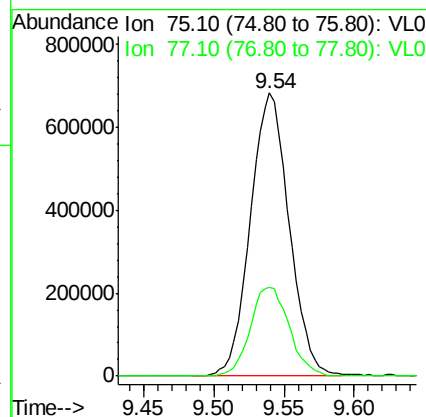
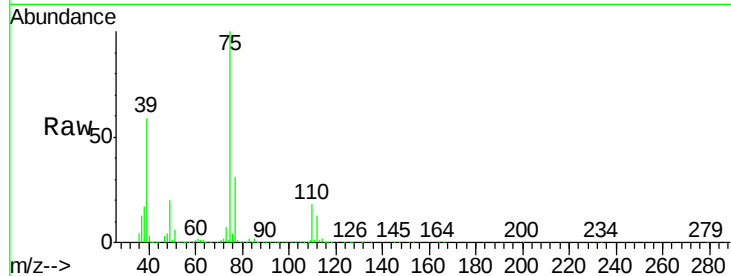
#45
t-1,3-Dichloropropene
Concen: 12.29 ppbv
RT: 9.54 min Scan# 2629
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1315546
Ion Ratio Lower Upper
75 100
77 31.2 25.0 37.4

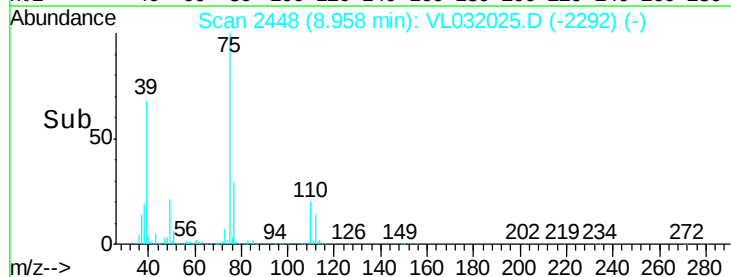
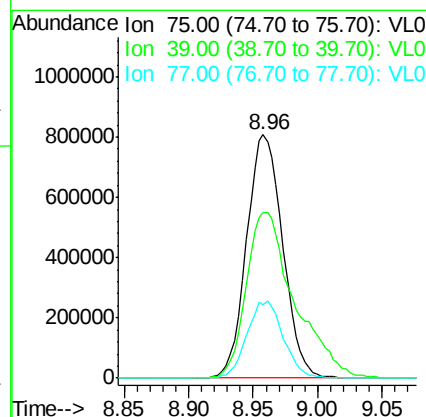
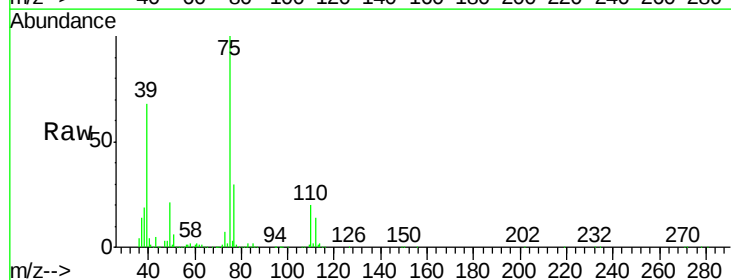
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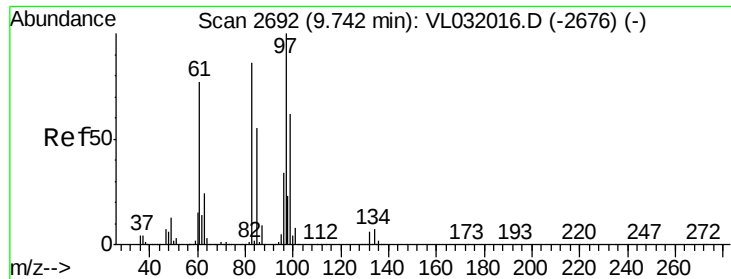
MMDadoda
6/4/2018 3:35:44 PM



#46
cis-1,3-Dichloropropene
Concen: 11.62 ppbv
RT: 8.96 min Scan# 2448
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion: 75 Resp: 1580010
Ion Ratio Lower Upper
75 100
39 67.9 55.0 82.6
77 30.3 25.0 37.6





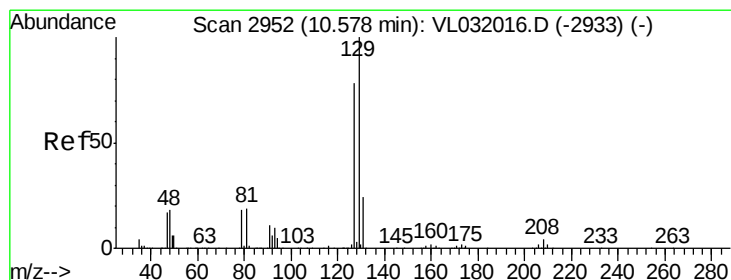
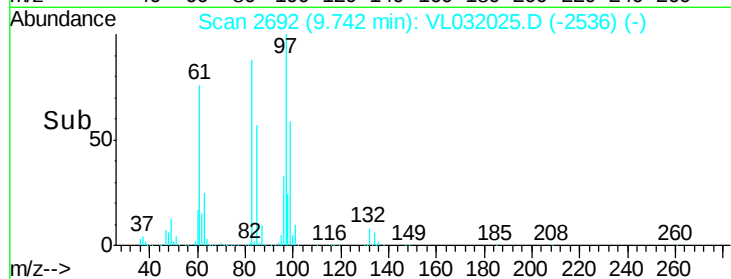
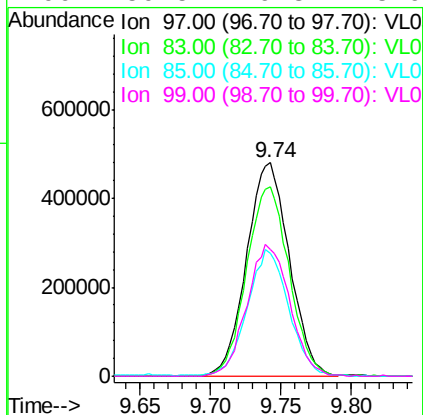
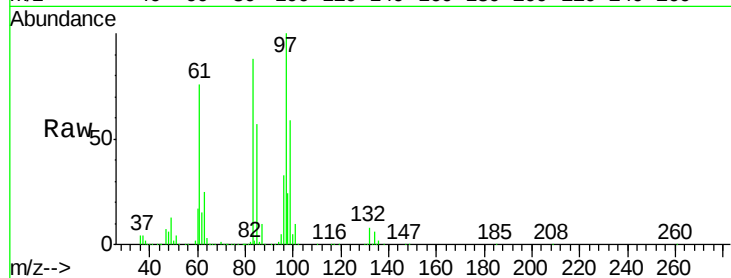
#47
 1,1,2-Trichloroethane
 Concen: 9.86 ppbv
 RT: 9.74 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.4	69.1	103.7
85	56.9	44.5	66.7
99	59.5	49.3	73.9

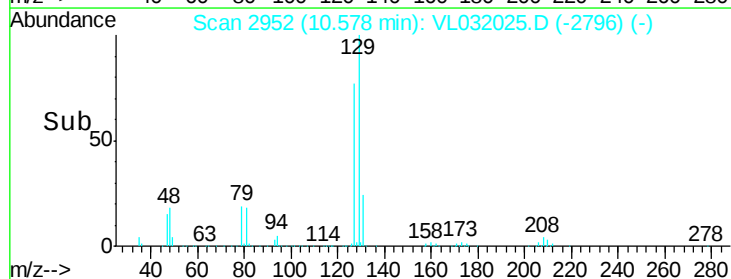
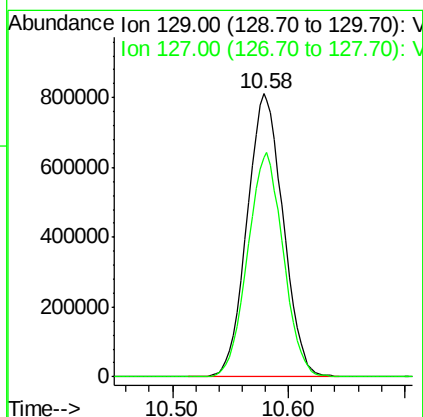
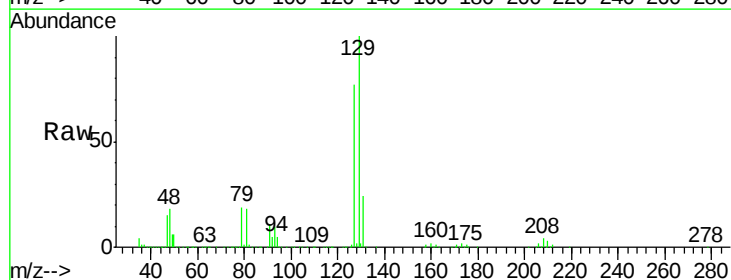
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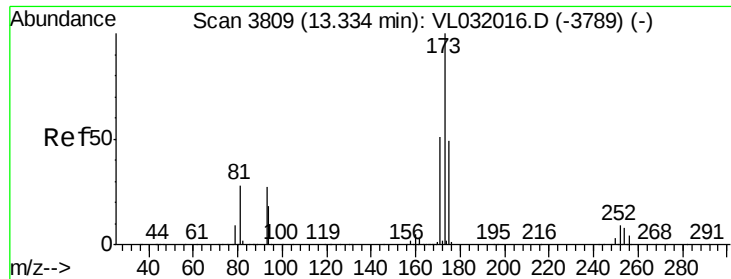
MMDadoda
 6/4/2018 3:35:44 PM



#48
 Dibromochloromethane
 Concen: 10.24 ppbv
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.3	117.9





#49

Bromoform

Concen: 10.24 ppbv

RT: 13.33 min Scan# 3809

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1377654

Ion Ratio Lower Upper

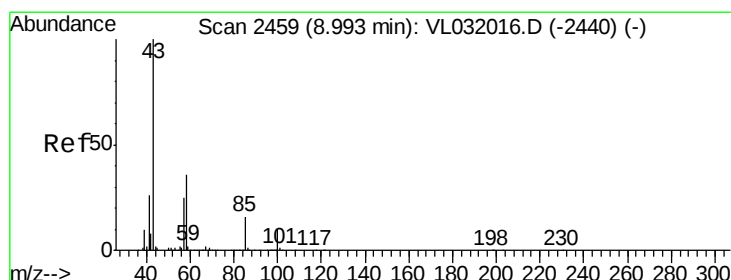
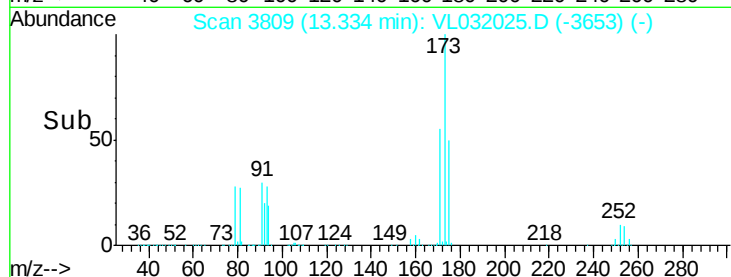
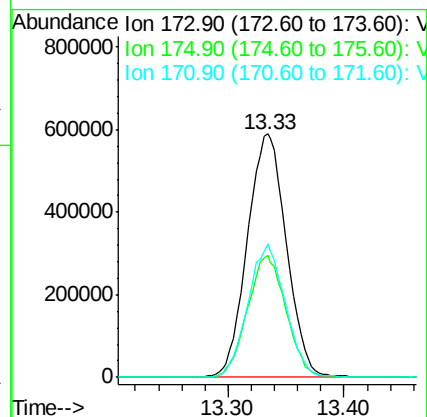
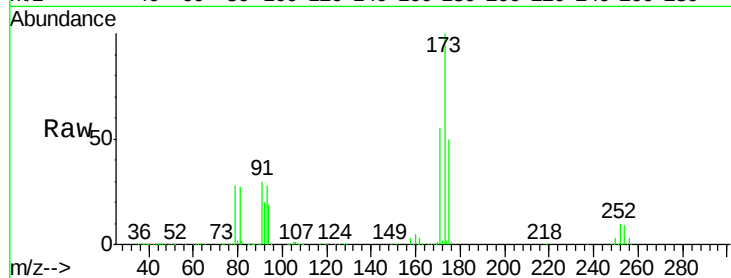
173 100

175 49.5 39.8 59.8

171 52.6 41.7 62.5

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#50

4-Methyl-2-Pentanone

Concen: 10.53 ppbv

RT: 8.99 min Scan# 2458

Delta R.T. -0.00 min

Lab File: VL032025.D

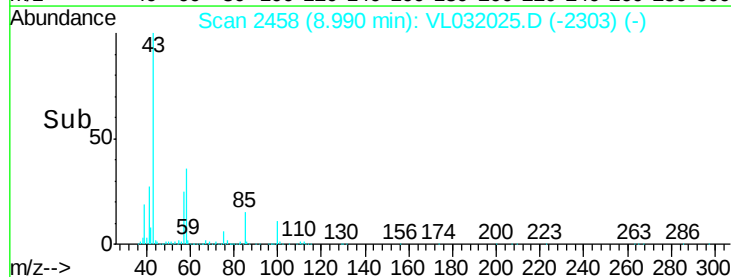
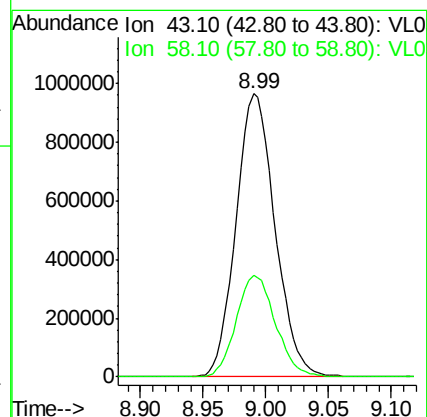
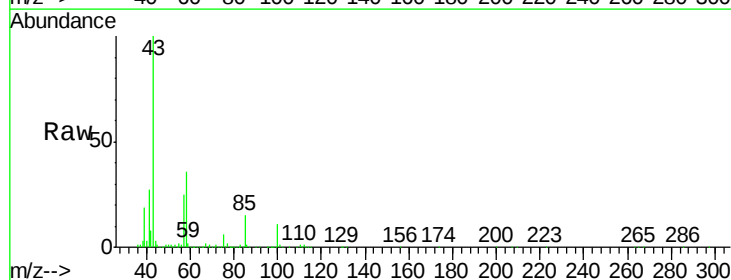
Acq: 1 Jun 2018 15:57

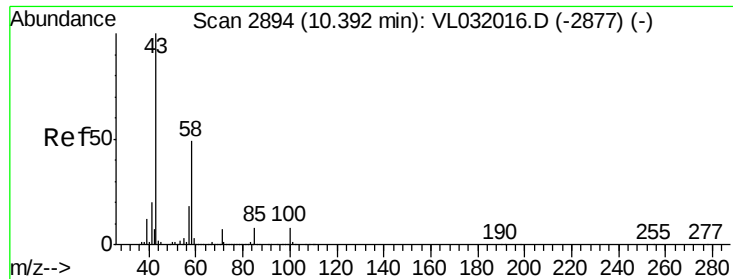
Tgt Ion: 43 Resp: 2081996

Ion Ratio Lower Upper

43 100

58 36.3 29.1 43.7





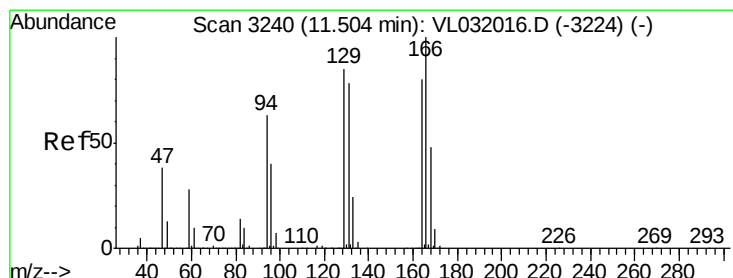
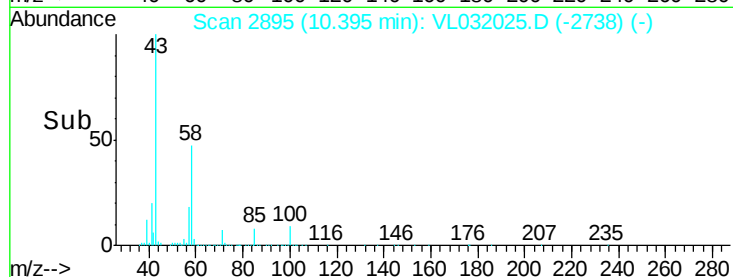
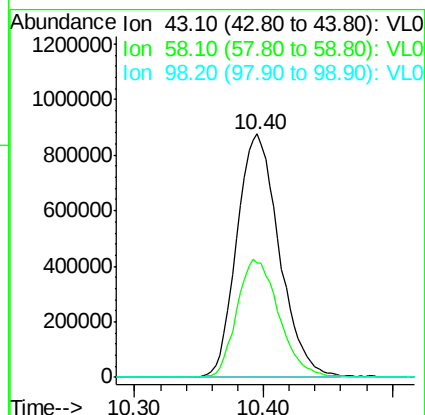
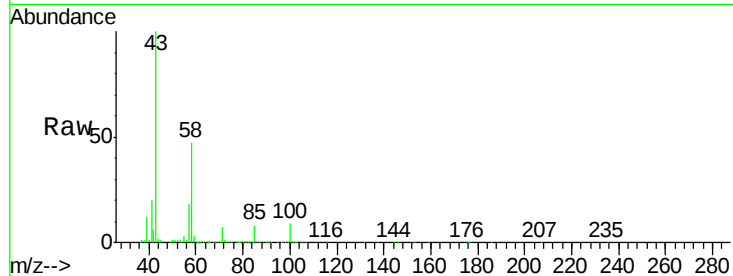
#51
2-Hexanone
Concen: 11.29 ppbv
RT: 10.40 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.4	39.0	58.6
98	0.4	0.4	0.6

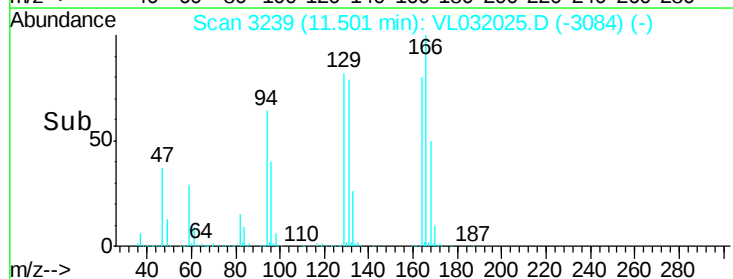
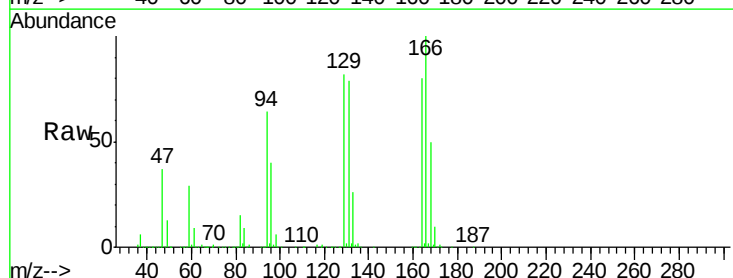
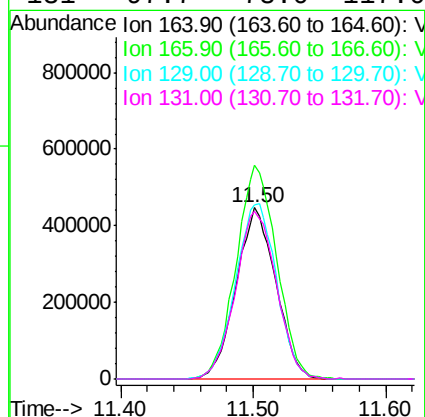
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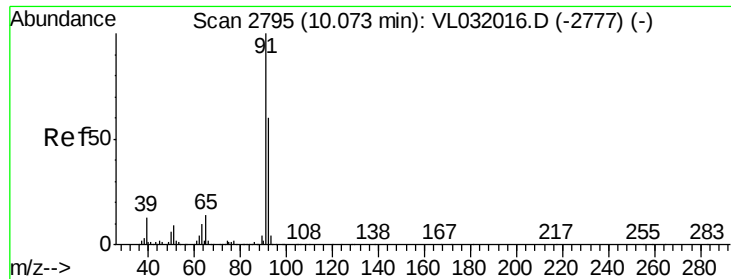
MMDadoda
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#52
Tetrachloroethene
Concen: 10.29 ppbv
RT: 11.50 min Scan# 3239
Delta R.T. -0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.5	100.2	150.2
129	101.8	85.4	128.0
131	97.7	78.0	117.0





#53

Toluene

Concen: 11.17 ppbv

RT: 10.07 min Scan# 2795

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2841872

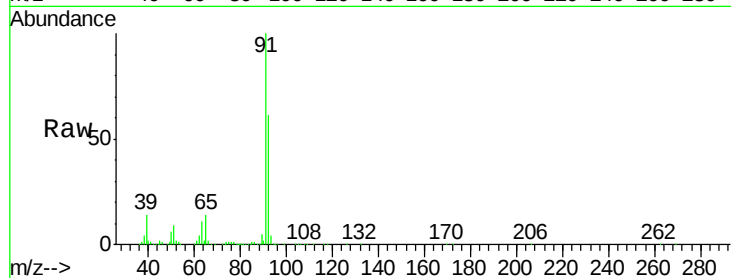
Ion Ratio Lower Upper

91 100

92 60.4 48.2 72.2

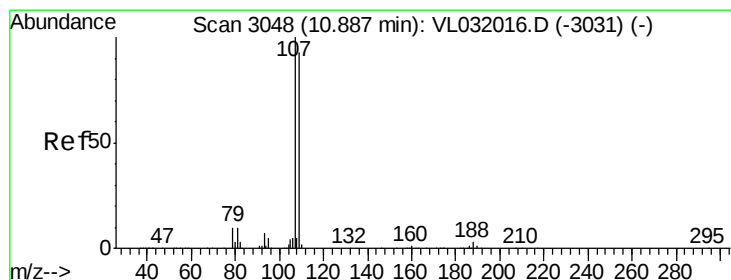
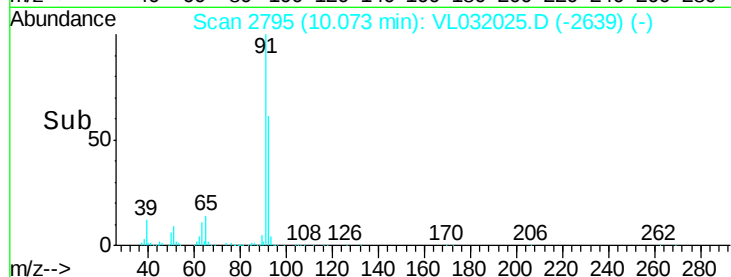
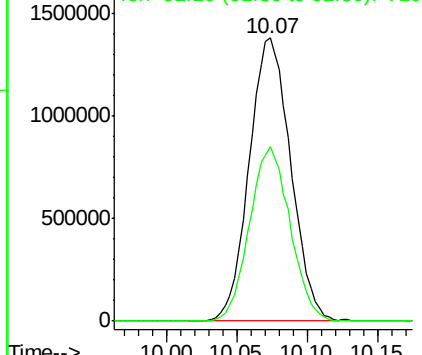
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6/4/2018 3:35:44 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.32 ppbv

RT: 10.89 min Scan# 3049

Delta R.T. 0.00 min

Lab File: VL032025.D

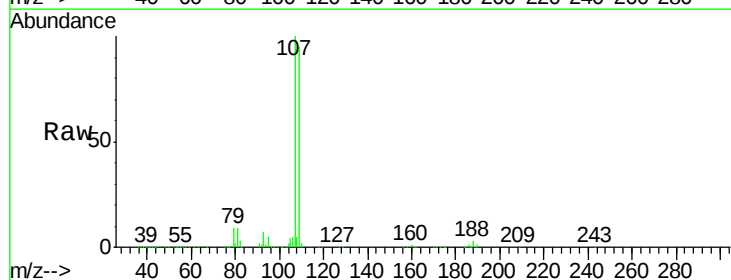
Acq: 1 Jun 2018 15:57

Tgt Ion: 107 Resp: 1564417

Ion Ratio Lower Upper

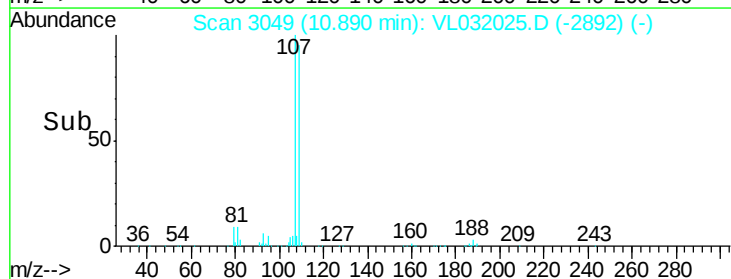
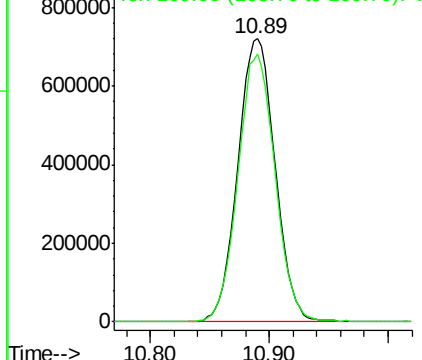
107 100

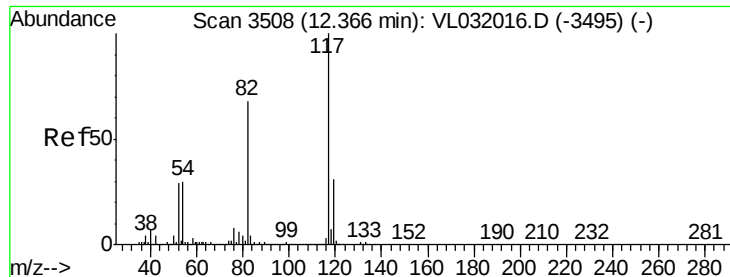
109 94.6 74.6 111.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





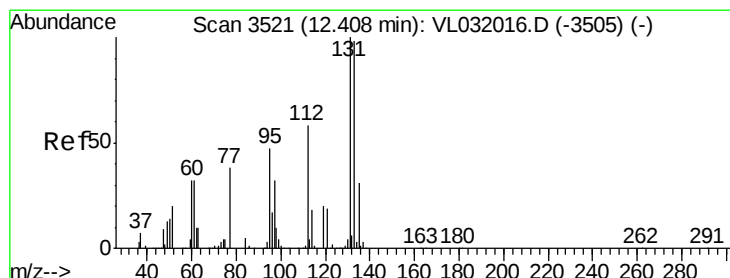
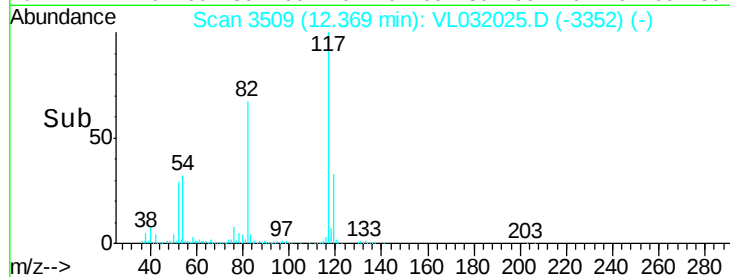
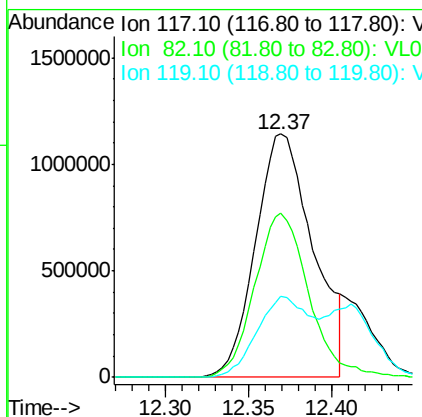
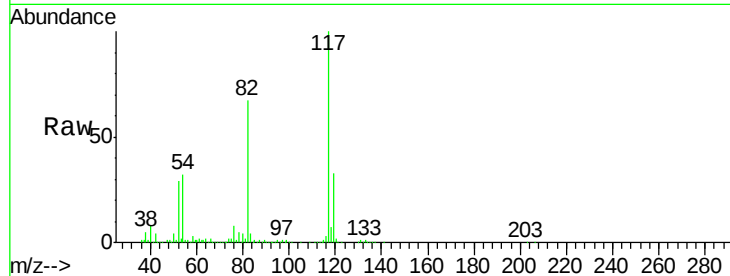
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.37 min Scan# 3509
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2752911
Ion Ratio Lower Upper
117 100
82 63.4 52.7 79.1
119 30.8 25.5 38.3

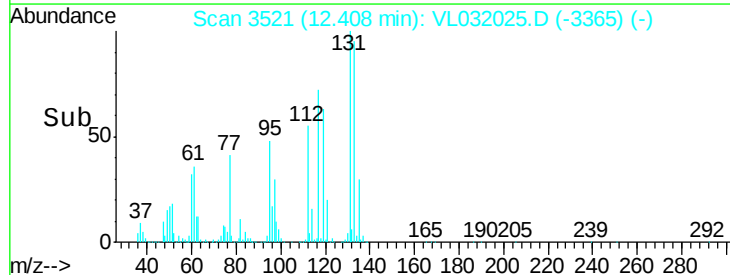
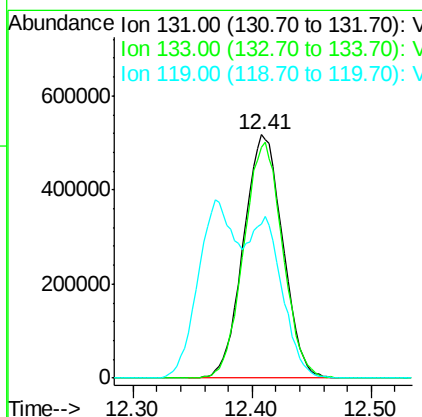
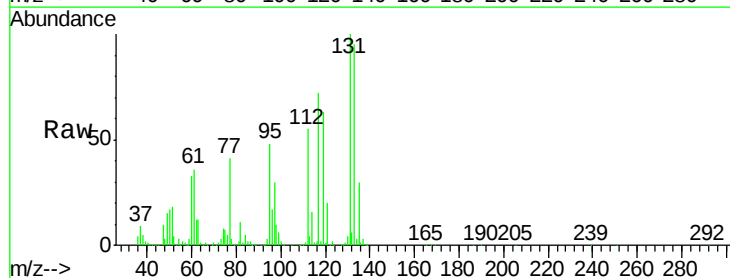
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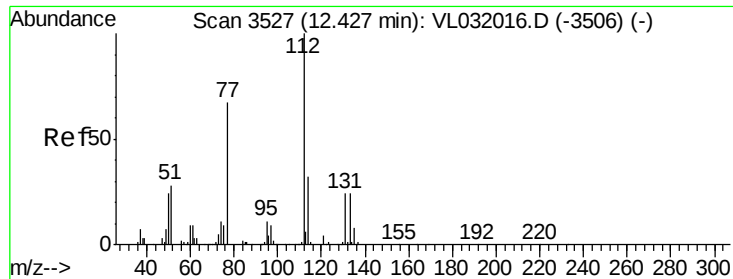
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6/4/2018 3:35:44 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.90 ppbv
RT: 12.41 min Scan# 3521
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion:131 Resp: 1183033
Ion Ratio Lower Upper
131 100
133 95.9 76.7 115.1
119 57.5 49.2 73.8





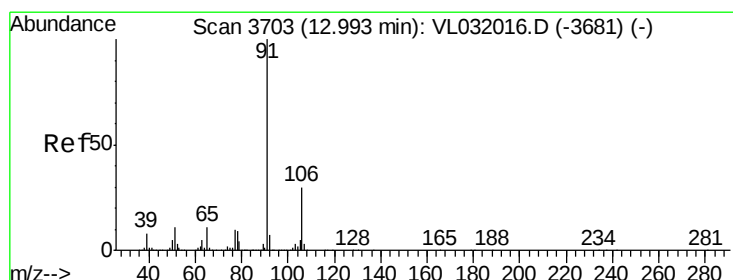
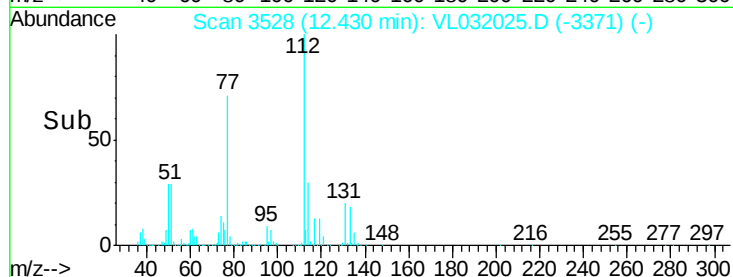
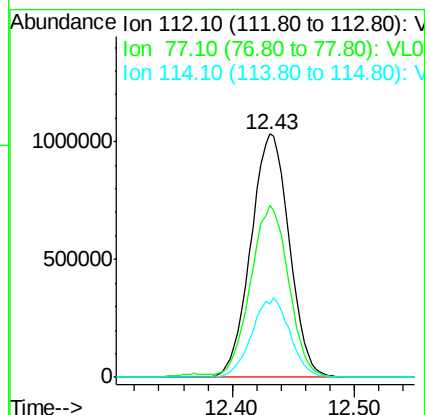
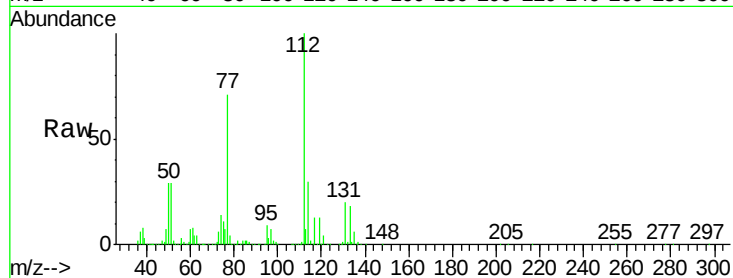
#57
Chlorobenzene
Concen: 8.93 ppbv
RT: 12.43 min Scan# 3528
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 112 Resp: 2246084
Ion Ratio Lower Upper
112 100
77 70.4 54.3 81.5
114 30.3 28.6 35.0

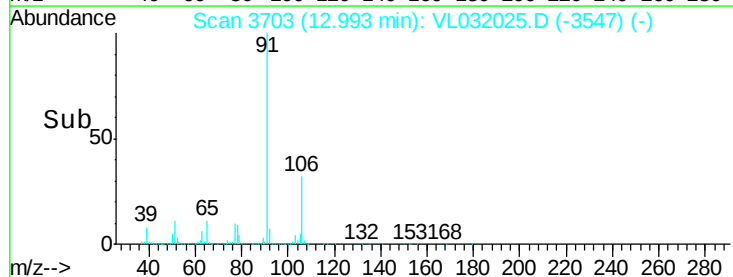
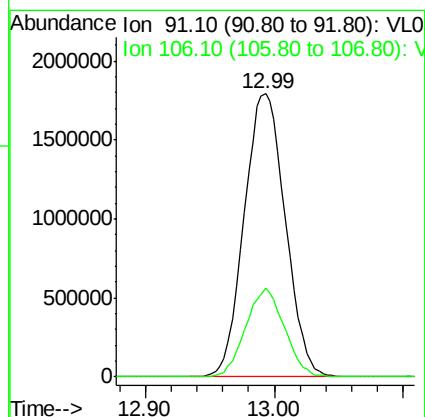
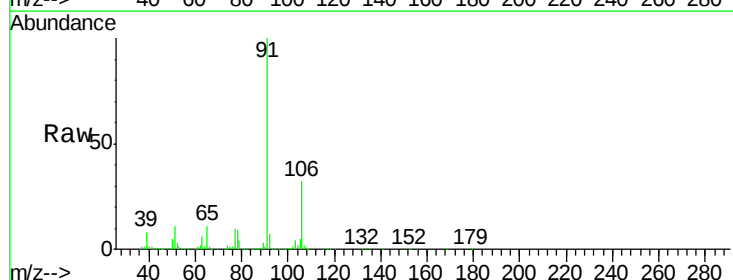
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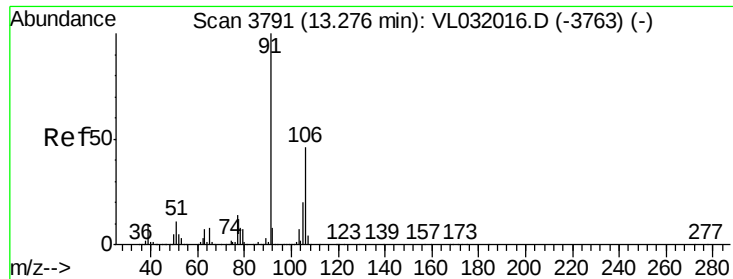
MMDadoda
6/4/2018 3:35:44 PM



#58
Ethyl Benzene
Concen: 10.26 ppbv
RT: 12.99 min Scan# 3703
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion: 91 Resp: 3971682
Ion Ratio Lower Upper
91 100
106 31.6 24.2 36.2





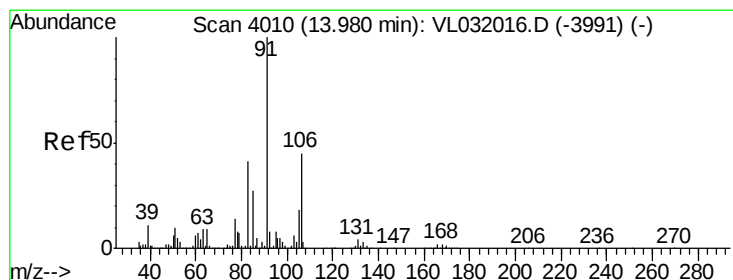
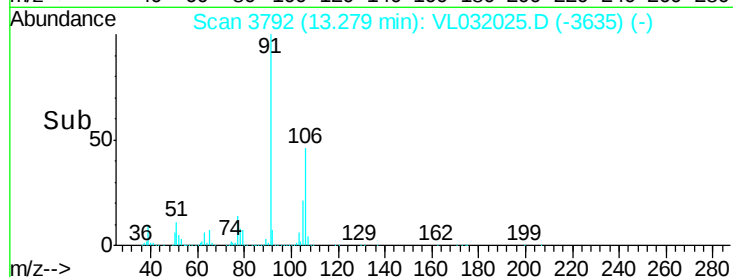
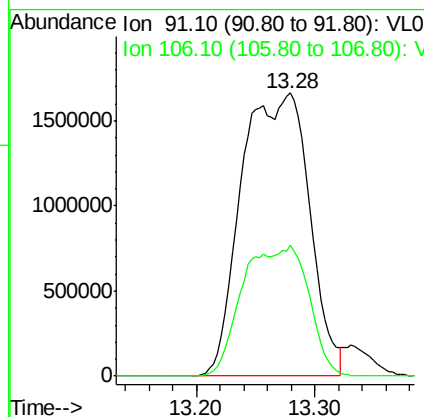
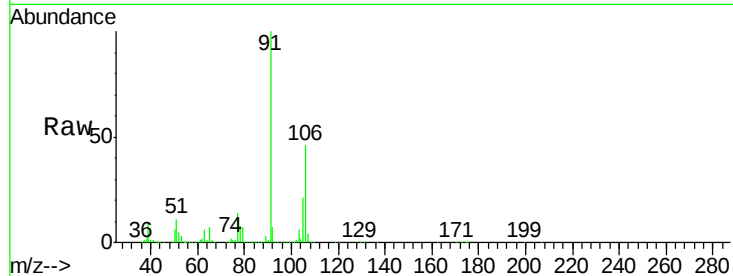
#59
m/p-Xylene
Concen: 19.35 ppbv m
RT: 13.28 min Scan# 3792
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 6564690
Ion Ratio Lower Upper
91 100
106 44.9 35.7 53.5

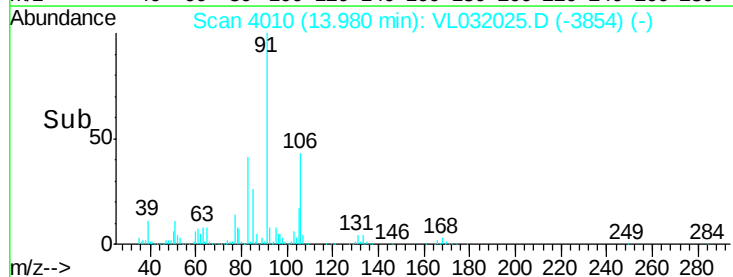
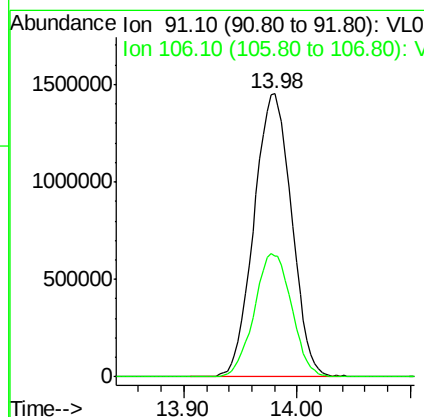
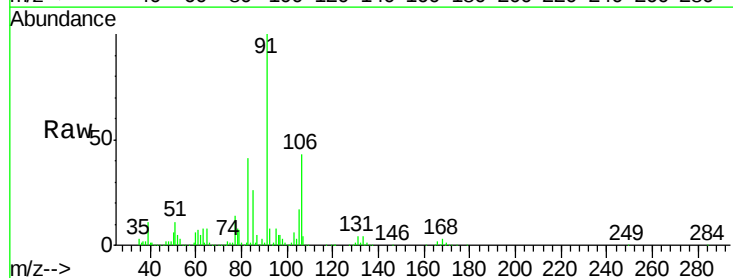
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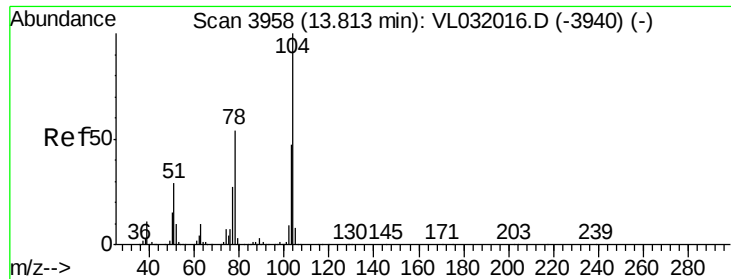
MMDadoda
6/4/2018 3:35:44 PM



#60
o-Xylene
Concen: 9.85 ppbv
RT: 13.98 min Scan# 4010
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion: 91 Resp: 3352598
Ion Ratio Lower Upper
91 100
106 43.2 21.9 65.5





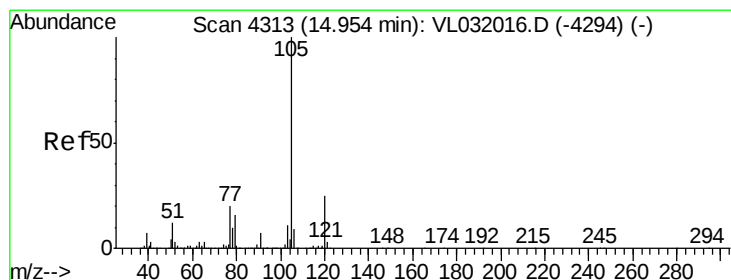
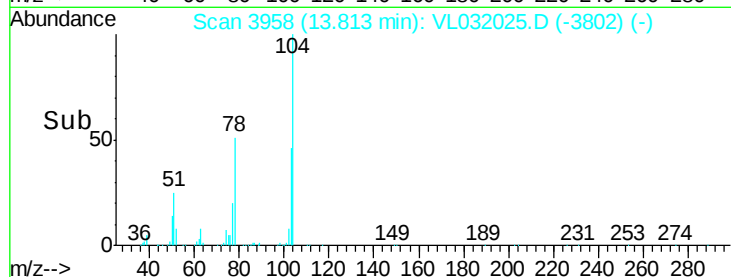
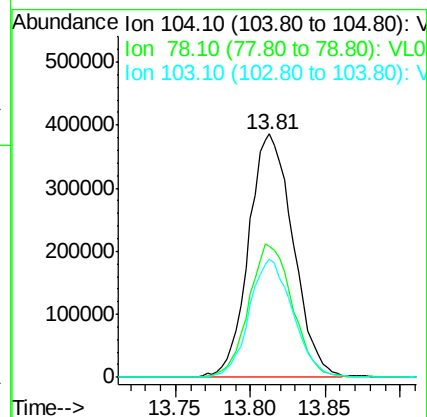
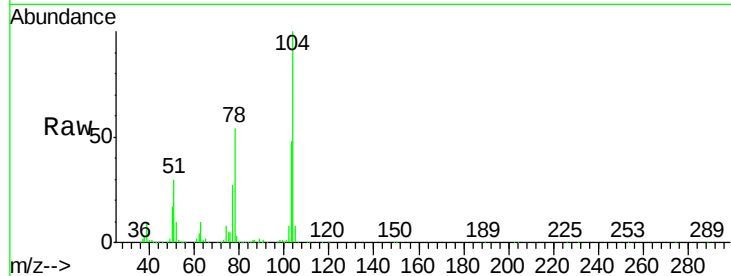
#61
Stvrene
Concen: 12.10 ppbv
RT: 13.81 min Scan# 3958
Delta R.T. 0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.3	43.0	64.4
103	47.9	37.4	56.2

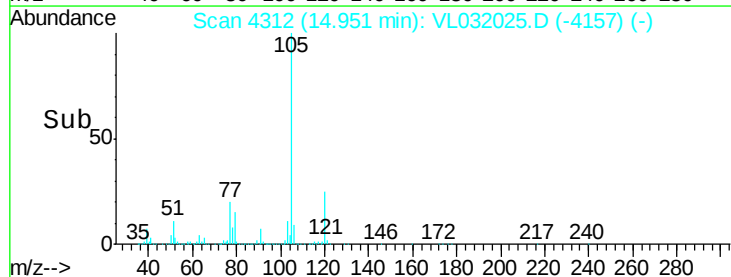
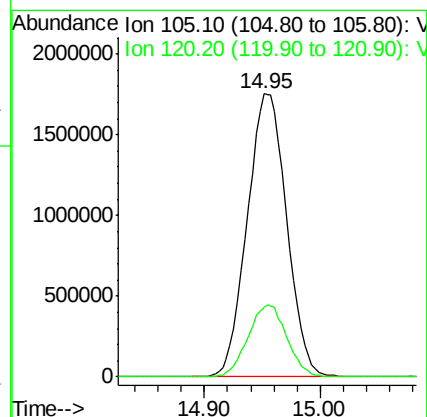
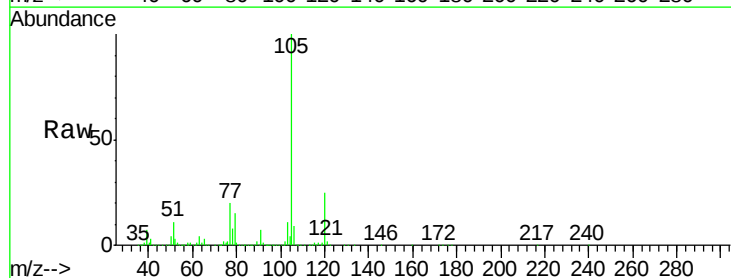
Manual Integrations
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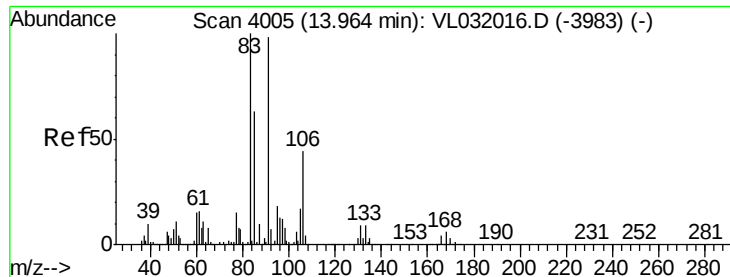
MMDadoda
6/4/2018 3:35:44 PM



#62
Isopropylbenzene
Concen: 9.56 ppbv
RT: 14.95 min Scan# 4312
Delta R.T. -0.00 min
Lab File: VL032025.D
Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	19.8	29.8





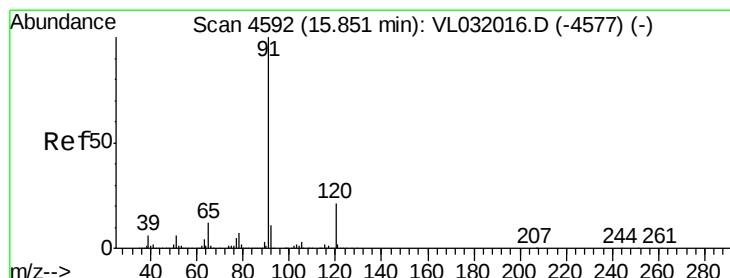
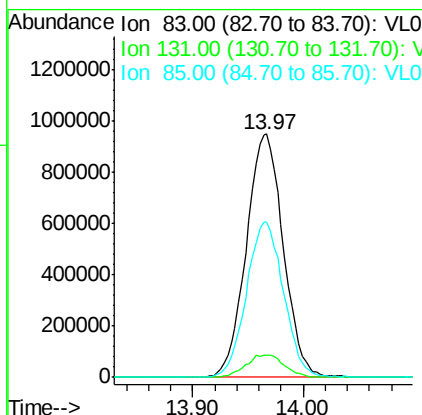
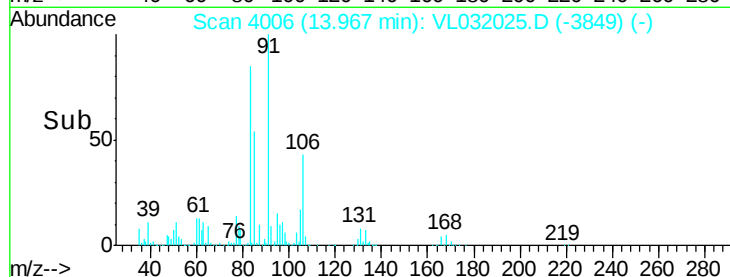
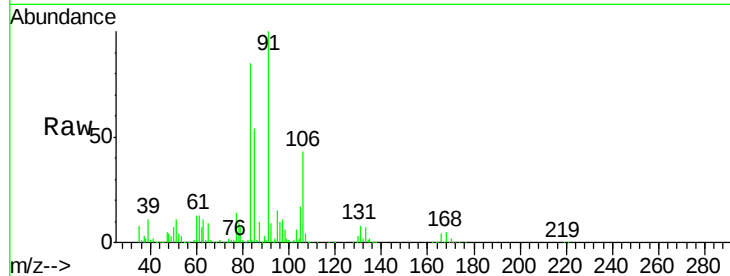
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.34 ppbv
 RT: 13.97 min Scan# 4006
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 2200651
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.7 14.0
 85 64.6 32.2 96.6

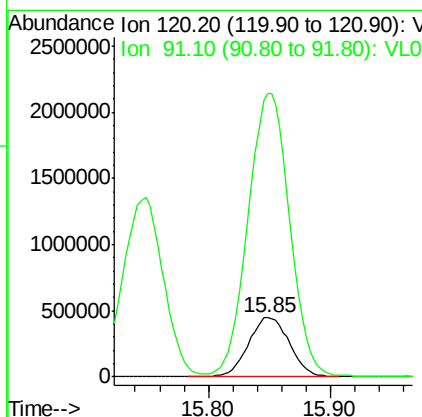
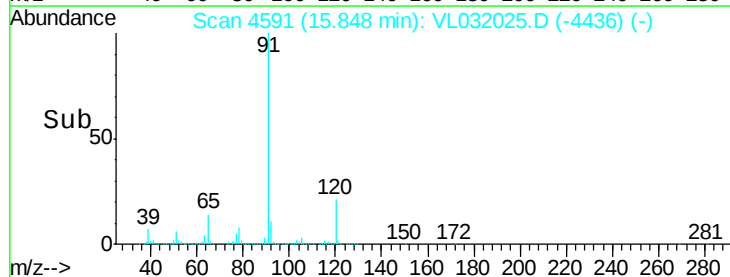
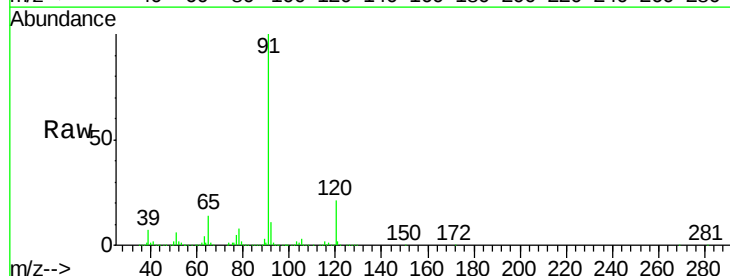
Manual Integrations
 APPROVED

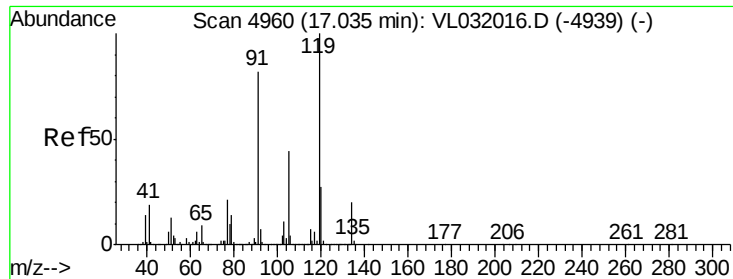
MMDadoda
 6/4/2018 3:35:44 PM



#64
 n-propylbenzene
 Concen: 9.61 ppbv
 RT: 15.85 min Scan# 4591
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion: 120 Resp: 1041167
 Ion Ratio Lower Upper
 120 100
 91 485.5 391.1 586.7





#65

tert-Butylbenzene

Concen: 9.32 ppbv

RT: 17.03 min Scan# 4959

Delta R.T. -0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 3533237

Ion Ratio Lower Upper

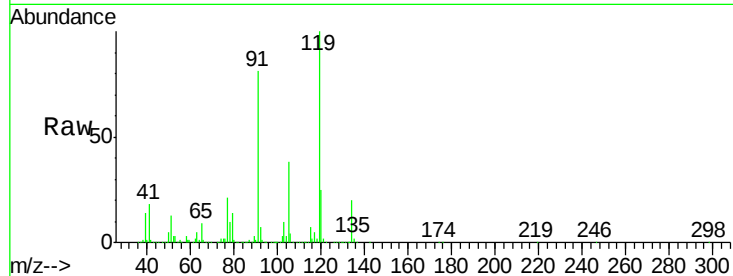
119 100

91 85.0 68.2 102.4

134 19.4 15.6 23.4

Manual Integrations
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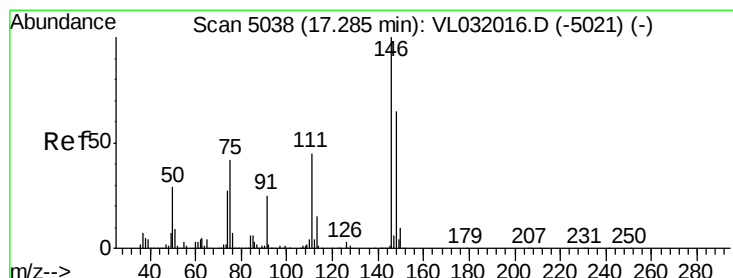
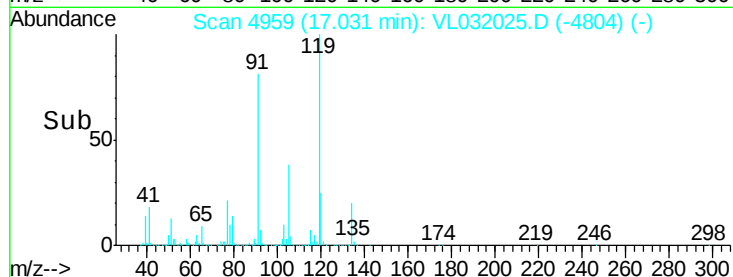
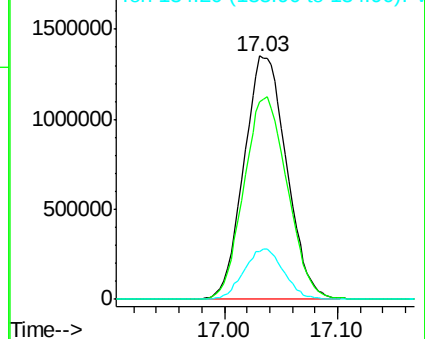
MMDadoda
6/4/2018 3:35:44 PM



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: 8.86 ppbv

RT: 17.29 min Scan# 5038

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

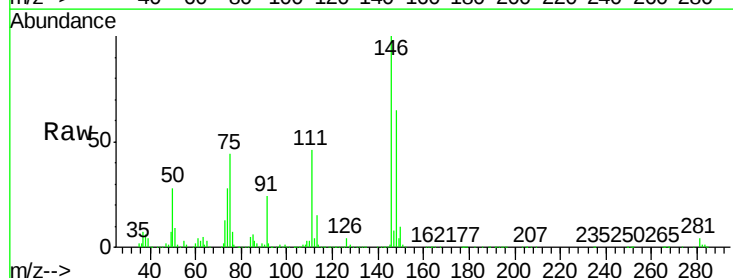
Tgt Ion: 91 Resp: 373276

Ion Ratio Lower Upper

91 100

126 18.9 14.2 21.2

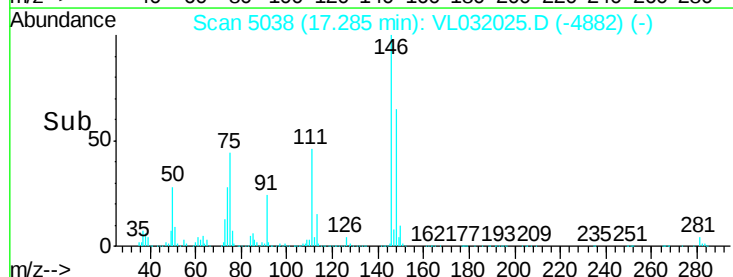
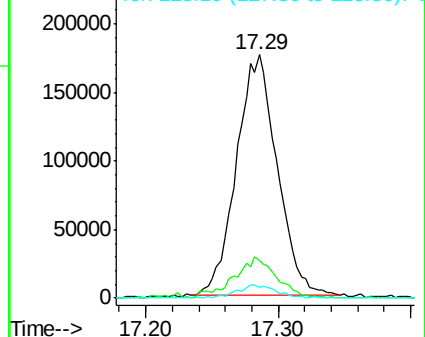
128 5.7 4.5 6.7

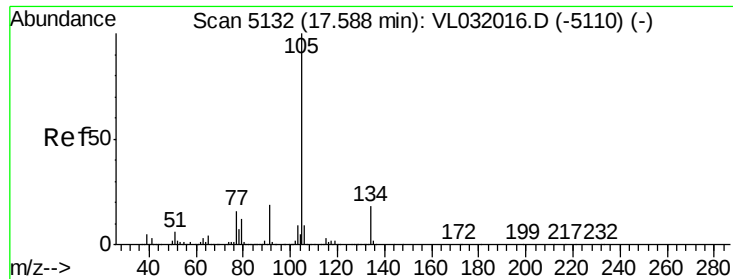


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





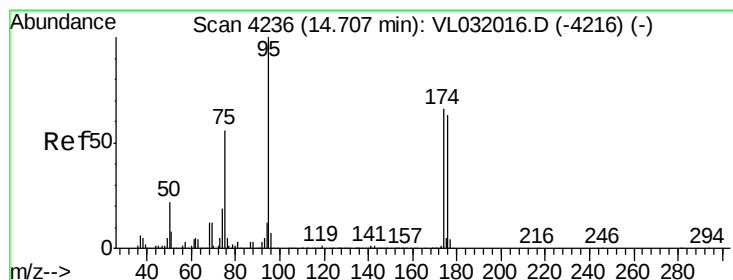
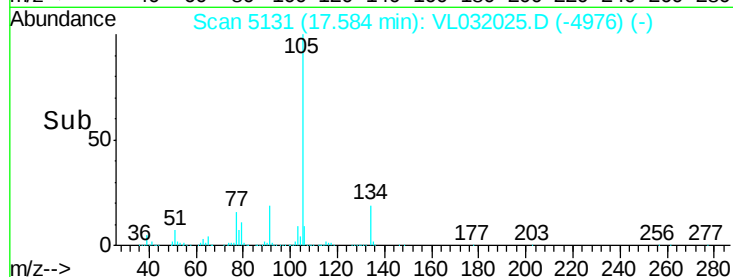
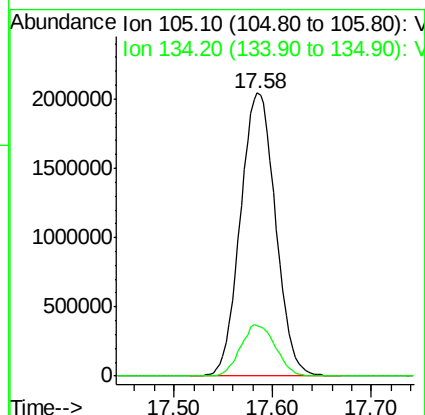
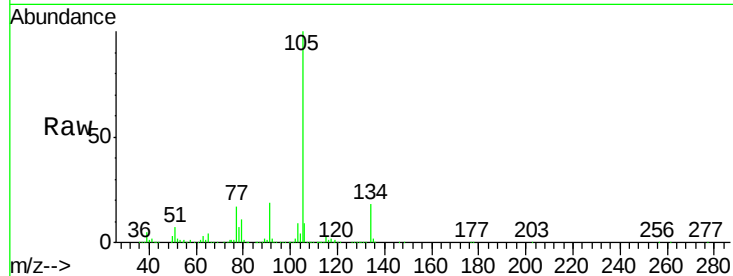
#67
 sec-Butylbenzene
 Concen: 9.16 ppbv
 RT: 17.58 min Scan# 5131
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 105 Resp: 5040141
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.4 21.6

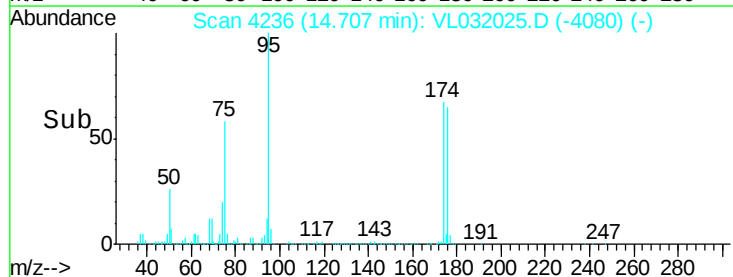
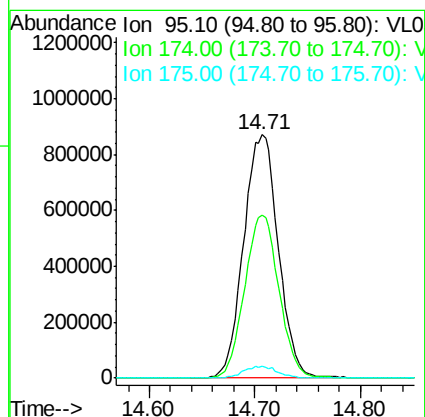
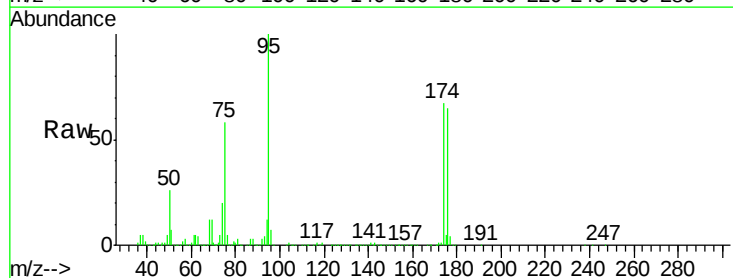
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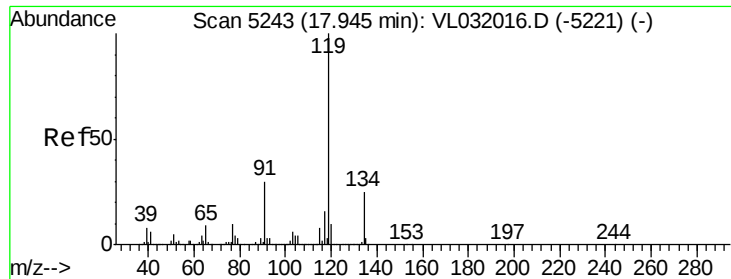
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 6/4/2018 3:35:44 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.37 ppbv
 RT: 14.71 min Scan# 4236
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion: 95 Resp: 1992787
 Ion Ratio Lower Upper
 95 100
 174 66.8 53.2 79.8
 175 4.8 3.7 5.5





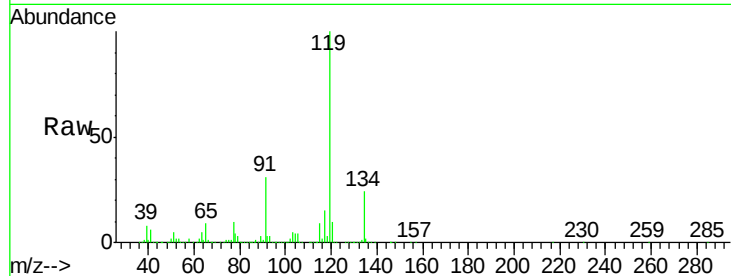
#69
 p-Isopropyltoluene
 Concen: 9.65 ppbv
 RT: 17.94 min Scan# 5242
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

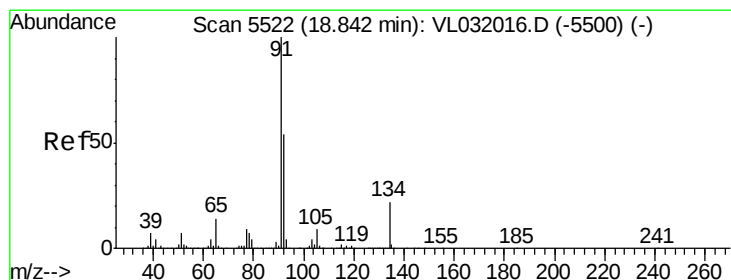
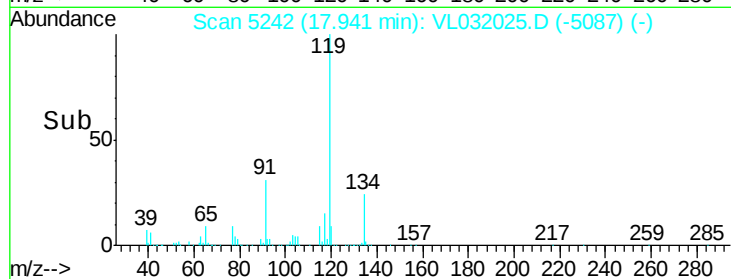
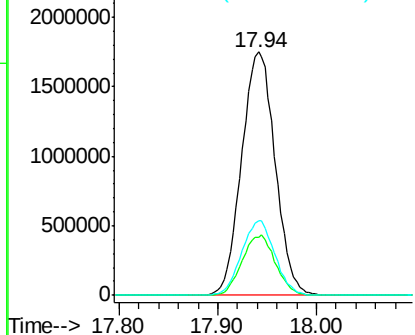
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.9	29.9
91	30.5	24.1	36.1

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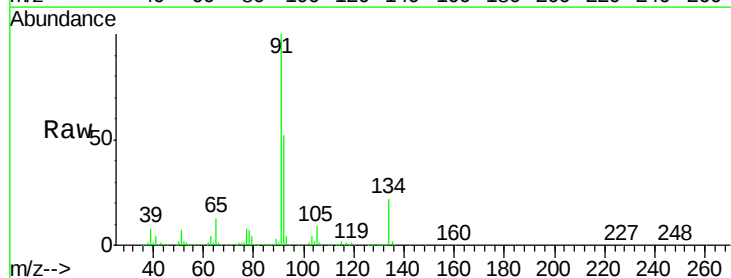


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

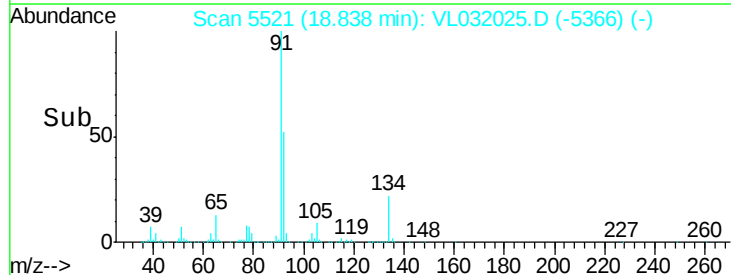
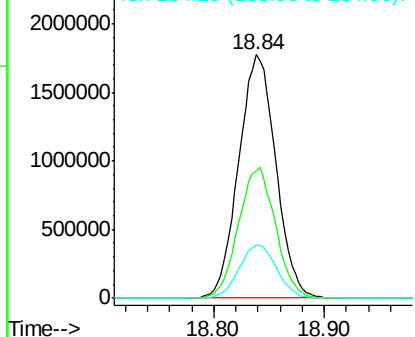


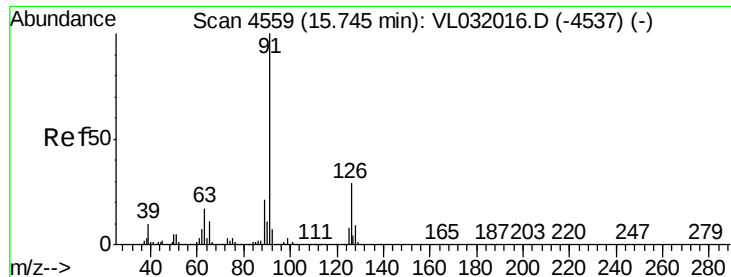
#70
 n-Butylbenzene
 Concen: 9.42 ppbv
 RT: 18.84 min Scan# 5521
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.5	63.7
134	22.0	17.4	26.2



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: 9.70 ppbv

RT: 15.75 min Scan# 4560

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3093952

Ion Ratio Lower Upper

91 100

126 29.5

11.7

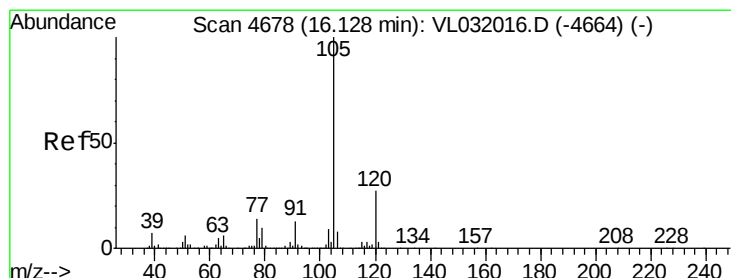
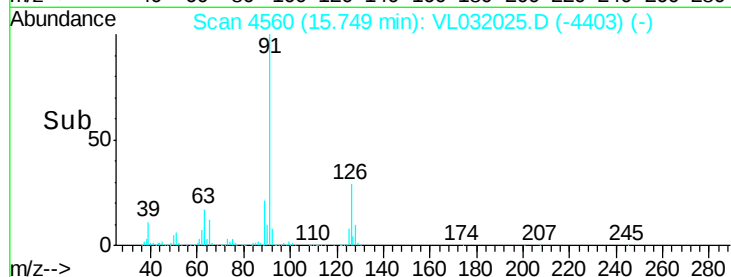
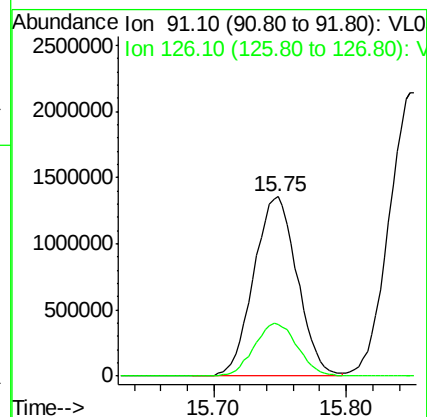
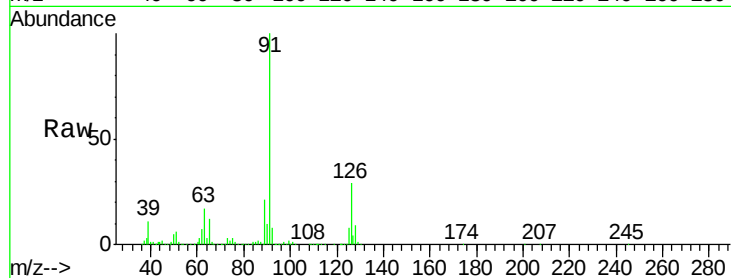
46.7

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#72

4-Ethyltoluene

Concen: 10.10 ppbv

RT: 16.12 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tgt Ion: 105 Resp: 3418876

Ion Ratio Lower Upper

105 100

120 28.8

23.4

35.0

91 13.1

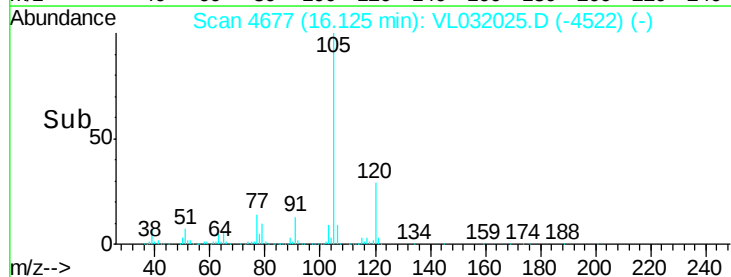
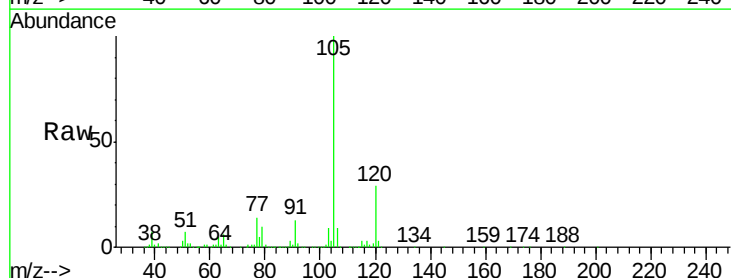
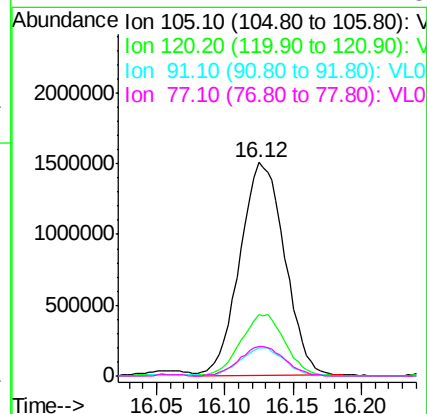
10.7

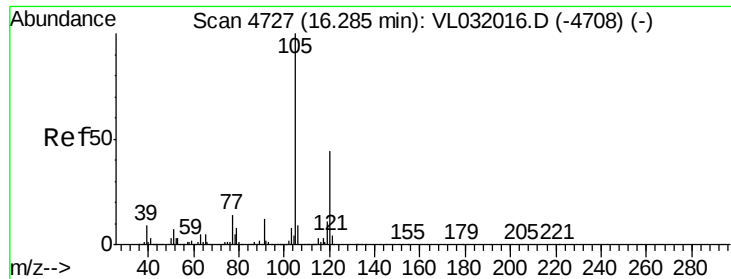
16.1

77 14.2

11.7

17.5





#73

1,3,5-Trimethylbenzene

Concen: 9.87 ppbv

RT: 16.29 min Scan# 4727

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3083156

Ion Ratio Lower Upper

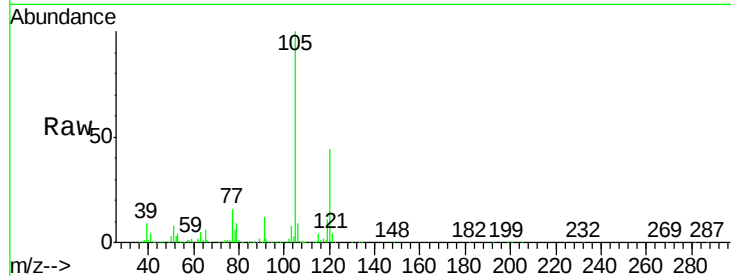
105 100

120 44.2 35.0 52.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.29

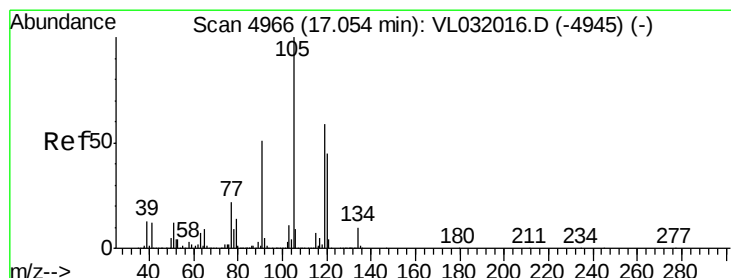
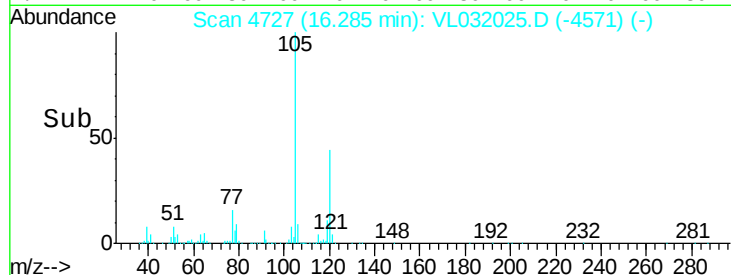
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.21 ppbv

RT: 17.06 min Scan# 4967

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Tgt Ion:105 Resp: 3242985

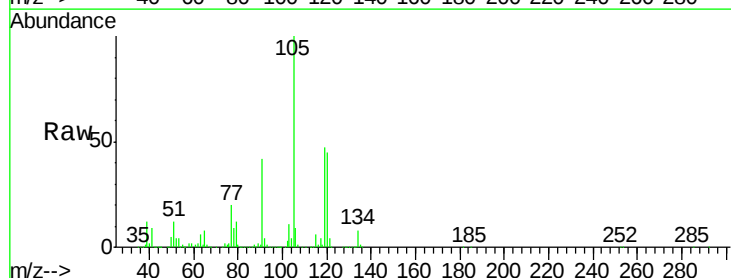
Ion Ratio Lower Upper

105 100

120 44.8 36.0 54.0

91 41.9 41.4 62.0

77 20.2 17.3 25.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2000000

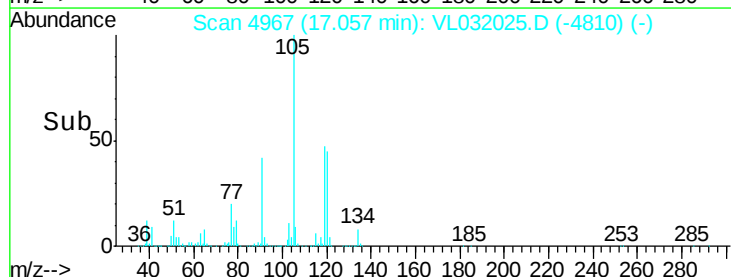
1500000

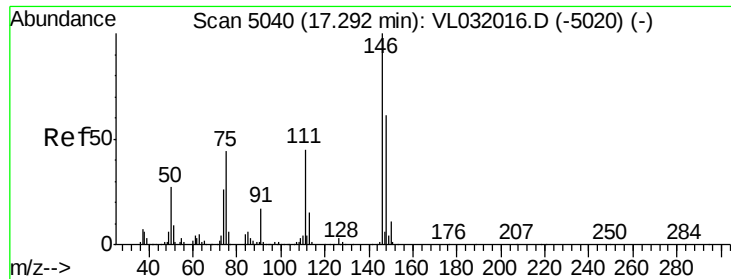
1000000

500000

0

Time-->





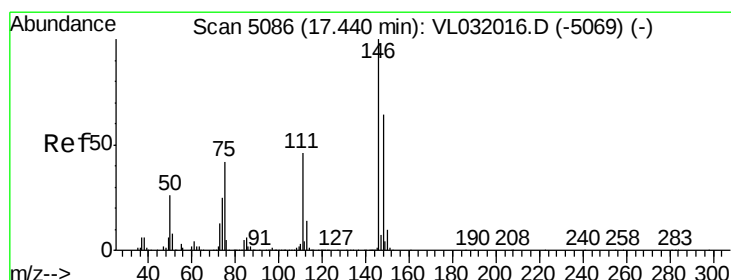
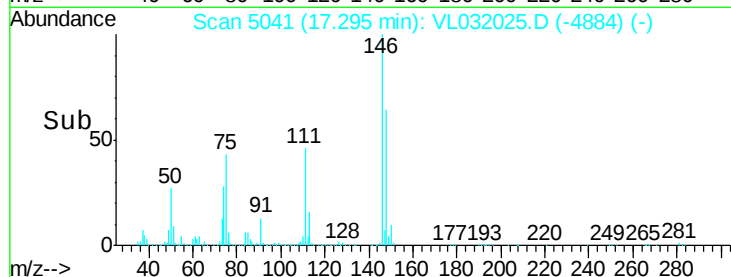
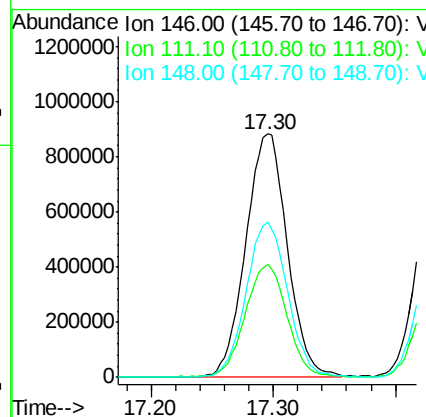
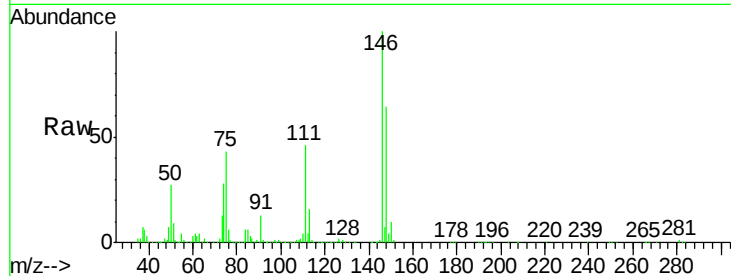
#75
 1,3-Dichlorobenzene
 Concen: 8.56 ppbv
 RT: 17.30 min Scan# 5041
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2070740
 Ion Ratio Lower Upper
 146 100
 111 47.4 23.7 71.1
 148 64.2 32.1 96.5

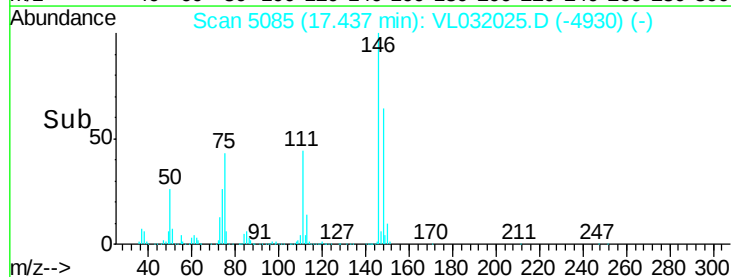
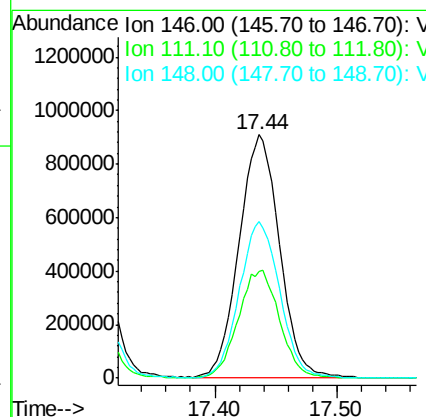
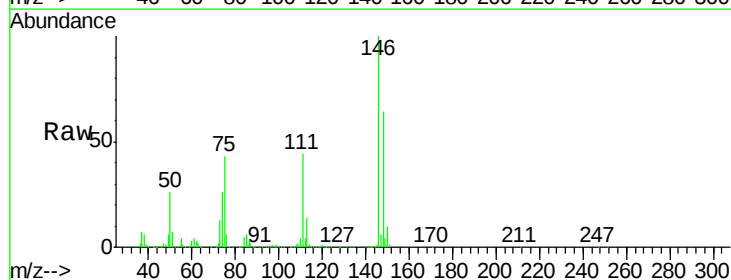
Manual Integrations
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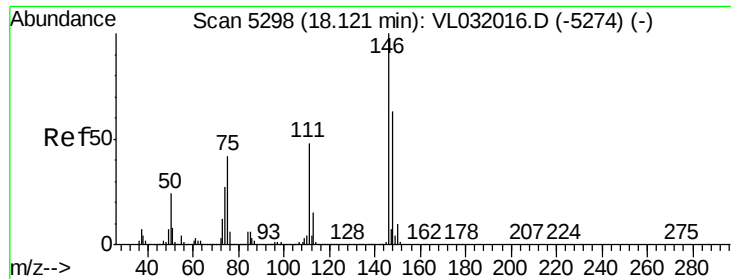
MMDadoda
 6/4/2018 3:35:44 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.96 ppbv
 RT: 17.44 min Scan# 5085
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion:146 Resp: 2065238
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.4 67.0
 148 65.1 32.1 96.3





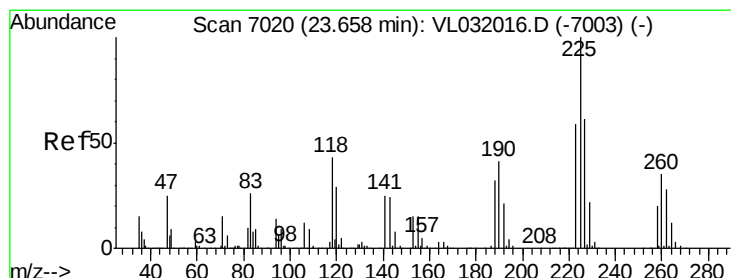
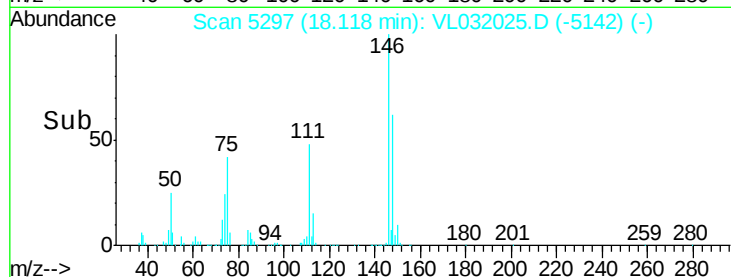
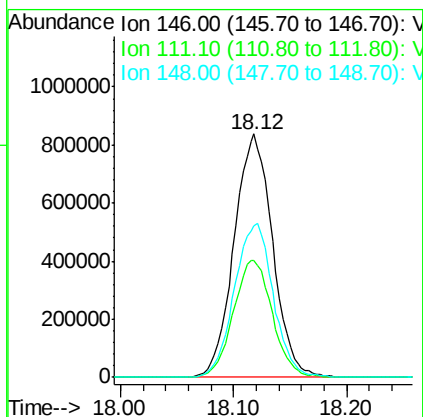
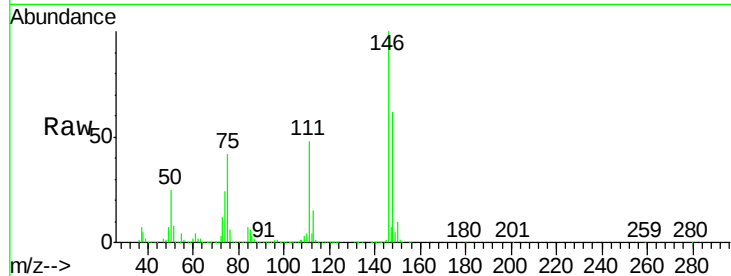
#77
 1,2-Dichlorobenzene
 Concen: 8.65 ppbv
 RT: 18.12 min Scan# 5297
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1980285
 Ion Ratio Lower Upper
 146 100
 111 48.8 24.2 72.6
 148 64.2 32.0 96.2

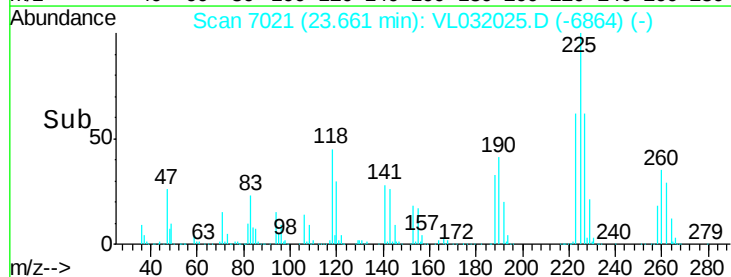
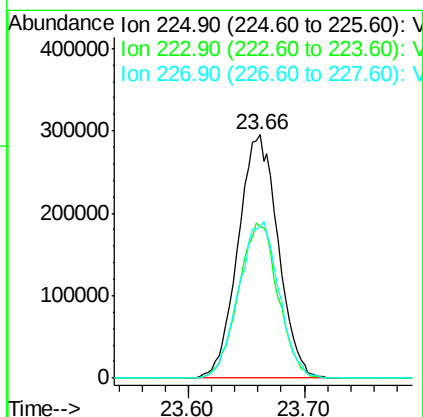
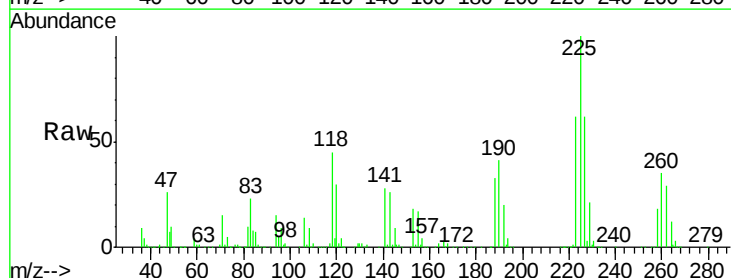
Manual Integrations
 APPROVED

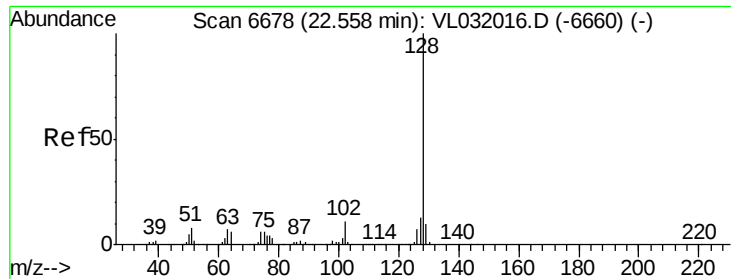
MMDadoda
 6/4/2018 3:35:44 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.78 ppbv
 RT: 23.66 min Scan# 7021
 Delta R.T. 0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Tgt Ion:225 Resp: 706781
 Ion Ratio Lower Upper
 225 100
 223 63.6 49.4 74.2
 227 64.9 51.2 76.8





#79

Naphthalene

Concen: 12.02 ppbv

RT: 22.56 min Scan# 6678

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2396011

Ion Ratio Lower Upper

128 100

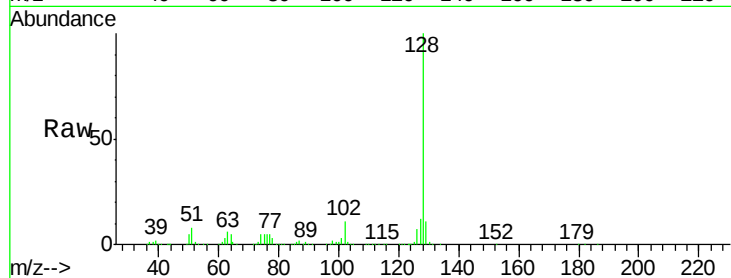
127 12.2 10.2 15.2

129 11.2 8.2 12.2

Manual Integrations
APPROVED

MMDadoda

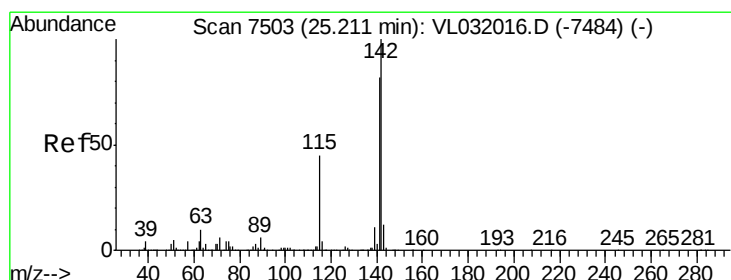
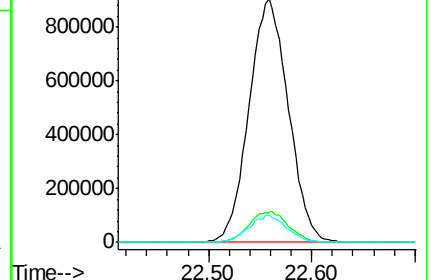
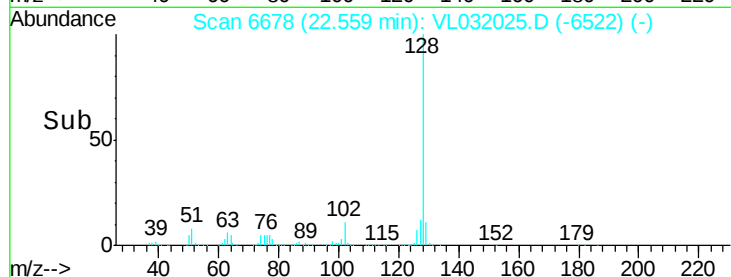
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene,2-methyl-

Concen: 25.89 ppbv

RT: 25.21 min Scan# 7503

Delta R.T. 0.00 min

Lab File: VL032025.D

Acq: 1 Jun 2018 15:57

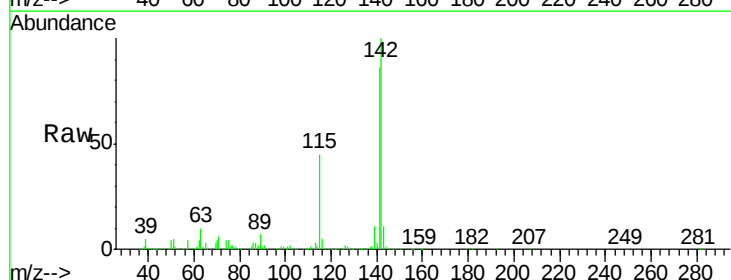
Tgt Ion:142 Resp: 1273129

Ion Ratio Lower Upper

142 100

141 82.6 67.4 101.2

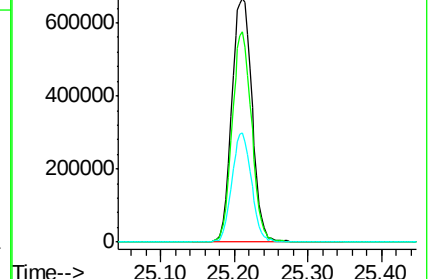
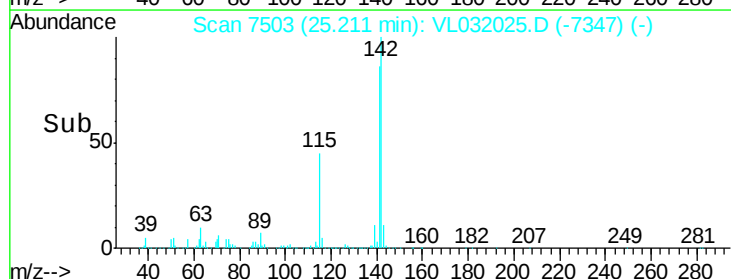
115 43.3 35.3 52.9

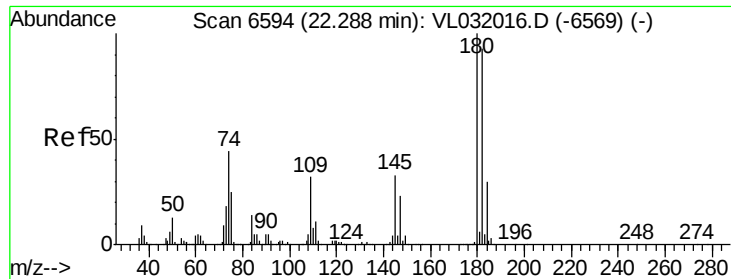


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.72 ppbv
 RT: 22.29 min Scan# 6593
 Delta R.T. -0.00 min
 Lab File: VL032025.D
 Acq: 1 Jun 2018 15:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.8	116.6
184	31.3	24.9	37.3

Manual Integrations
 APPROVED

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