

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032662.D
 Acq On : 19 Oct 2018 00:24
 Operator : SY/AP
 Sample : VL1018ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:05:01 PM

Quant Time: Oct 19 01:46:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 01:46:02 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1658643	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4254065	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4390293m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	3198947	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1964182	11.623	ppbv	98
3) Chlorodifluoromethane	3.02	51	1158339	8.930	ppbv	99
4) Chloromethane	3.18	50	676407	9.331	ppbv	98
5) Vinyl Chloride	3.30	62	690055	8.789	ppbv	99
6) Bromomethane	3.53	94	439955	8.987	ppbv	93
7) Chloroethane	3.61	64	259191	8.965	ppbv	97
8) Dichlorotetrafluoroethane	3.23	85	1570848	8.819	ppbv	92
9) Propene	3.05	41	535841	10.038	ppbv	99
10) Heptane	8.26	43	2079968	10.111	ppbv	98
11) Trichlorofluoromethane	4.02	101	1927486	8.732	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1390411	7.574	ppbv	92
13) Ethanol	3.66	45	131635	8.628	ppbv	98
14) Bromoethene	3.80	108	549162	8.852	ppbv	100
15) Acetone	3.91	43	1165197	7.608	ppbv	100
16) 1,3-Butadiene	3.38	39	578472	10.267	ppbv	80
17) tert-Butyl alcohol	4.37	59	446008	9.901	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	752809	9.335	ppbv	95
19) Isopropyl Alcohol	4.04	45	940417	8.622	ppbv #	98
20) Methylene Chloride	4.42	84	650411	8.366	ppbv	97
21) Allyl Chloride	4.49	41	1287140	10.235	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	750622	9.074	ppbv	88
23) Vinyl Acetate	5.17	43	2736695	10.083	ppbv	99
24) 1,1-Dichloroethane	5.11	63	1952893	9.166	ppbv	99
25) Ethyl Acetate	5.79	43	3230337	9.163	ppbv	100
26) Hexane	5.80	57	1509817	9.051	ppbv	99
27) Carbon Disulfide	4.63	76	1743474	8.616	ppbv	100
28) Methyl tert-Butyl Ether	5.13	73	2426753	10.123	ppbv	99
29) Chloroform	5.87	83	2349024	8.816	ppbv	100
30) Cyclohexane	7.26	84	1395880	10.572	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1459045	9.433	ppbv	99
32) 1,1,1-Trichloroethane	6.64	97	2414175	8.916	ppbv	98
34) 2-Butanone	5.34	43	2231484	9.785	ppbv	99
35) Carbon Tetrachloride	7.15	117	2632140	8.718	ppbv	99
36) Benzene	7.02	78	3305096	9.567	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1868036	8.816	ppbv	98
38) Trichloroethene	7.98	130	1255295	9.816	ppbv	99
39) 1,2-Dichloropropane	7.76	63	1256397	9.418	ppbv	98
40) 1,4-Dioxane	7.98	88	429126	9.419	ppbv #	96
41) Tetrahydrofuran	6.17	42	1320991	10.395	ppbv	99
42) Bromodichloromethane	7.94	83	2673214	9.005	ppbv	98
43) Methyl Methacrylate	8.16	69	1325179	10.467	ppbv	96

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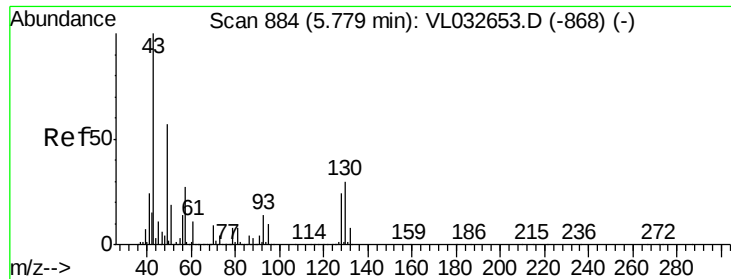
Manual Integrations
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Quant Time: Oct 19 01:46:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 01:46:02 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5519814	9.360	ppbv	100
45) t-1,3-Dichloropropene	9.44	75	1907060	11.253	ppbv	100
46) cis-1,3-Dichloropropene	8.86	75	2045331	10.563	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1446770	9.179	ppbv	99
48) Dibromochloromethane	10.47	129	2280963	8.682	ppbv	100
49) Bromoform	13.23	173	1917945	9.290	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3491713	10.335	ppbv	99
51) 2-Hexanone	10.29	43	2433329	9.689	ppbv #	99
52) Tetrachloroethene	11.39	164	1177783	9.779	ppbv	96
53) Toluene	9.97	91	4129521	10.428	ppbv	99
54) 1,2-Dibromoethane	10.78	107	2072947	9.676	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.30	131	1645517	8.571	ppbv #	56
57) Chlorobenzene	12.32	112	2851247	8.831	ppbv	96
58) Ethyl Benzene	12.89	91	5094672	9.989	ppbv	100
59) m/p-Xylene	13.17	91	8406367m	18.509	ppbv	
60) o-Xylene	13.87	91	4022396	9.181	ppbv	99
61) Styrene	13.70	104	3127833	10.648	ppbv	97
62) Isopropylbenzene	14.85	105	5608325	9.045	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2742451	7.989	ppbv	99
64) n-propylbenzene	15.74	120	1423721	9.239	ppbv	97
65) tert-Butylbenzene	16.93	119	4744926	8.985	ppbv	96
66) Benzyl Chloride	17.18	91	2710581	9.941	ppbv	99
67) sec-Butylbenzene	17.48	105	6695901	8.915	ppbv	99
69) p-Isopropyltoluene	17.84	119	5429353	9.123	ppbv	98
70) n-Butylbenzene	18.73	91	5473443	8.933	ppbv	99
71) 2-Chlorotoluene	15.64	91	4182577	9.491	ppbv	98
72) 4-Ethyltoluene	16.02	105	4527897	9.703	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4238680	9.326	ppbv	96
74) 1,2,4-Trimethylbenzene	16.95	105	4262461	8.782	ppbv	92
75) 1,3-Dichlorobenzene	17.19	146	2371707	8.498	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	2379120	9.237	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2256826	8.535	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1200798	9.611	ppbv	100
79) Naphthalene	22.43	128	3530225	11.702	ppbv	100
80) Naphthalene, 2-methyl-	25.13	142	1202724	16.395	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	1656794	10.604	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 49 Resp: 1658643

Ion Ratio Lower Upper

49 100

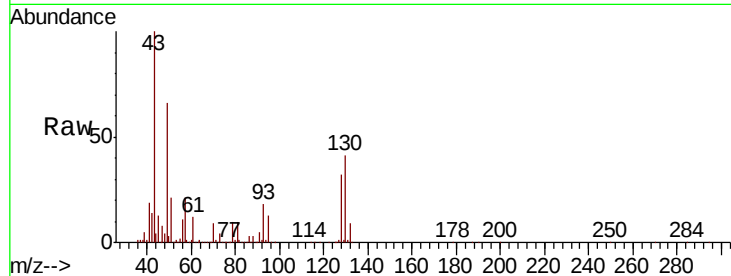
128 49.2 22.3 66.8

130 62.6 28.4 85.3

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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

1200000

1000000

800000

600000

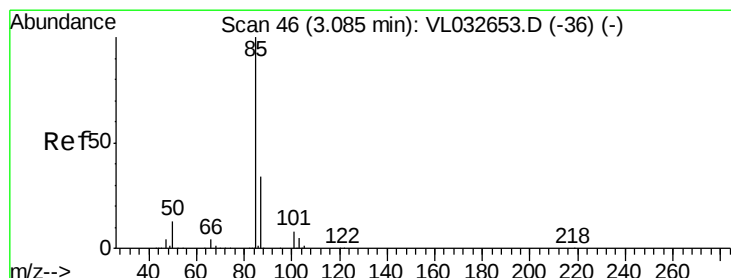
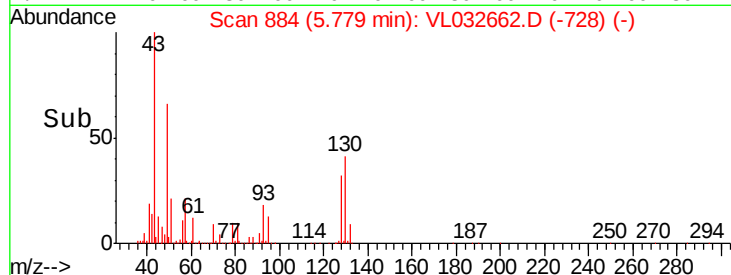
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 11.623 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032662.D

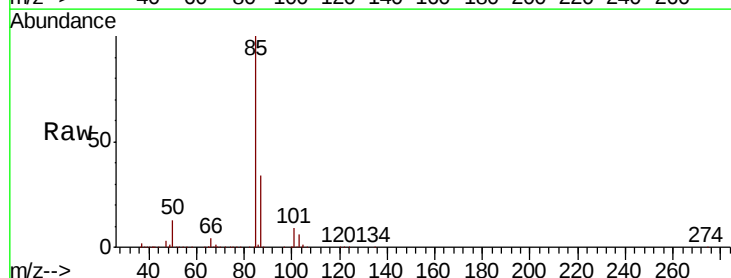
Acq: 19 Oct 2018 00:24

Tgt Ion: 85 Resp: 1964182

Ion Ratio Lower Upper

85 100

87 33.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1500000

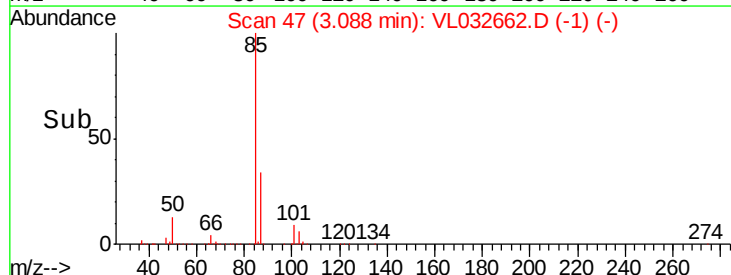
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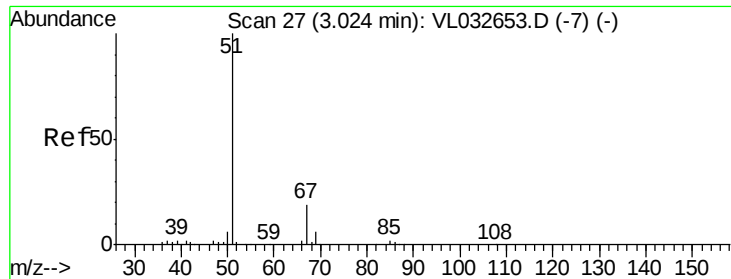
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0

3.05 3.10 3.15

Time-->





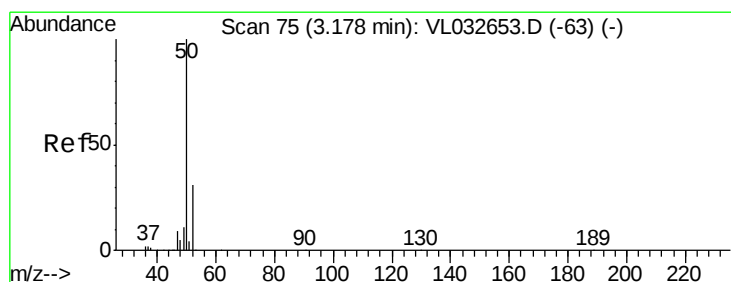
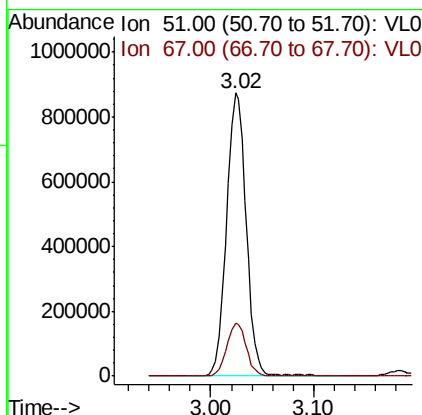
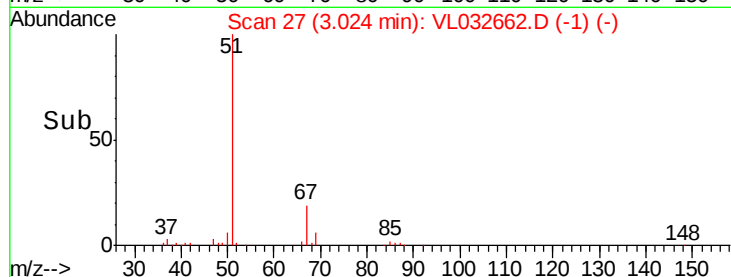
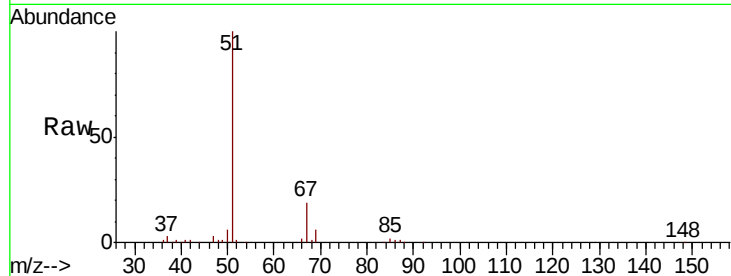
#3
Chlorodifluoromethane
Concen: 8.930 ppbv
RT: 3.02 min Scan# 27
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion: 51 Resp: 1158339
Ion Ratio Lower Upper
51 100
67 18.5 15.2 22.8

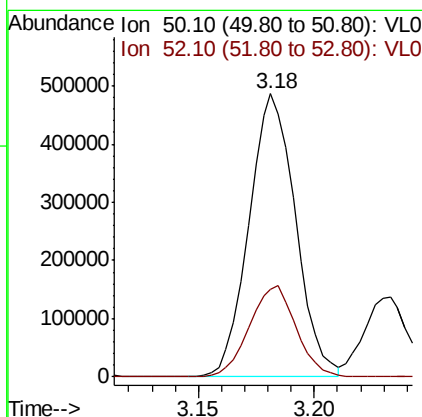
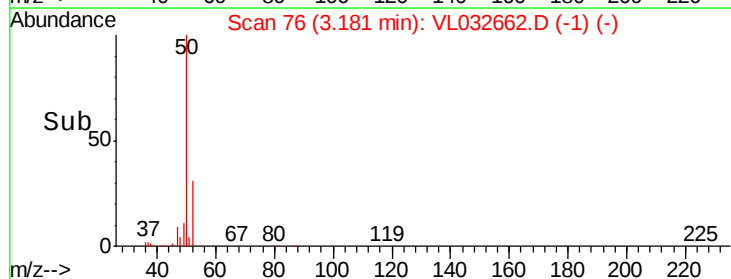
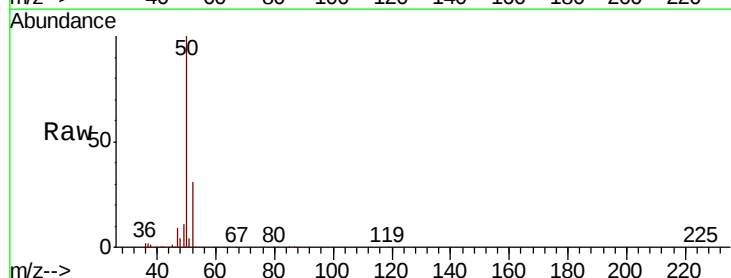
Manual Integrations
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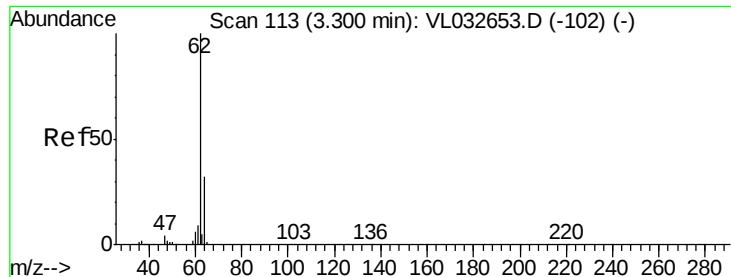
MMDadoda
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#4
Chloromethane
Concen: 9.331 ppbv
RT: 3.18 min Scan# 76
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion: 50 Resp: 676407
Ion Ratio Lower Upper
50 100
52 31.1 25.9 38.9





#5

Vinyl Chloride

Concen: 8.789 ppbv

RT: 3.30 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 62 Resp: 690055

Ion Ratio Lower Upper

62 100

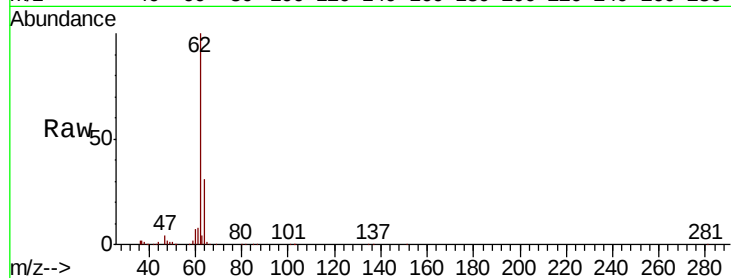
64 31.1 25.5 38.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

600000

500000

400000

300000

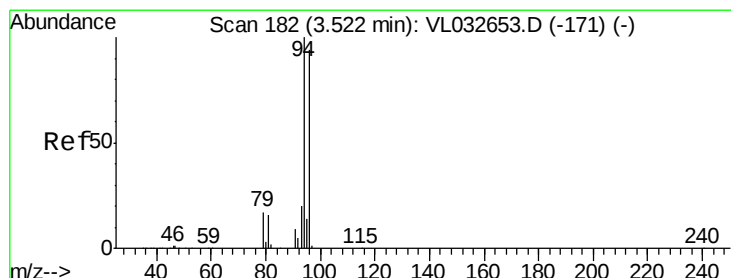
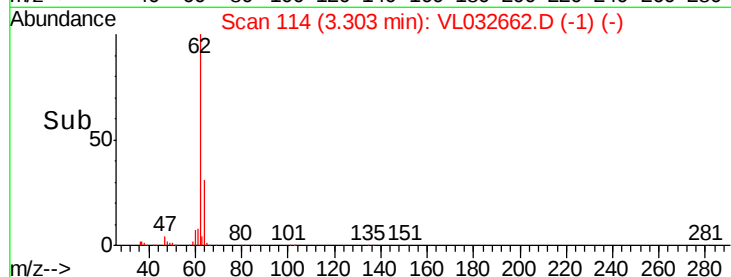
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 8.987 ppbv

RT: 3.53 min Scan# 183

Delta R.T. 0.00 min

Lab File: VL032662.D

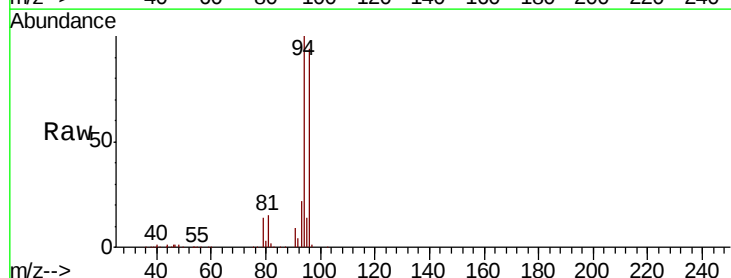
Acq: 19 Oct 2018 00:24

Tgt Ion: 94 Resp: 439955

Ion Ratio Lower Upper

94 100

96 93.8 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

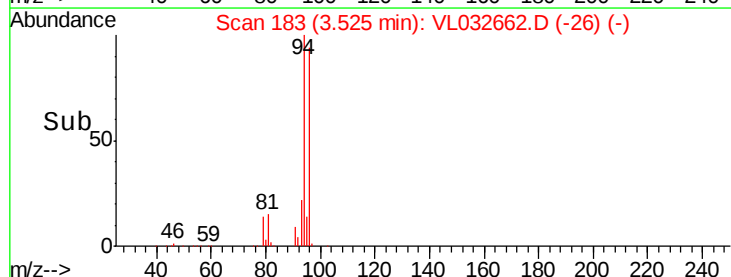
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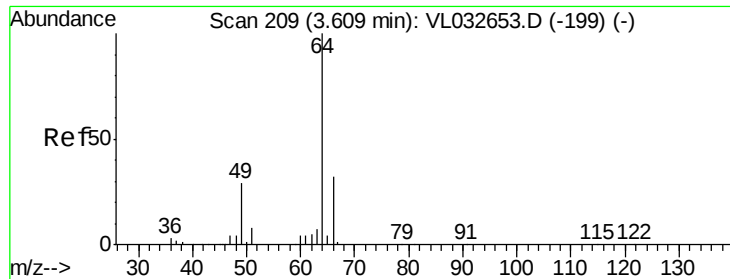
100000

0

3.45 3.50 3.55 3.60

Time-->





#7

Chloroethane

Concen: 8.965 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 64 Resp: 259191

Ion Ratio Lower Upper

64 100

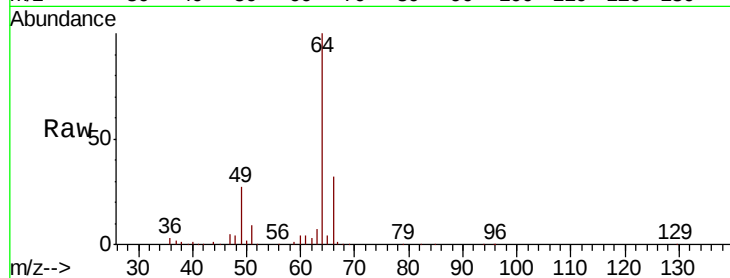
66 32.3 24.4 36.6

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

200000

150000

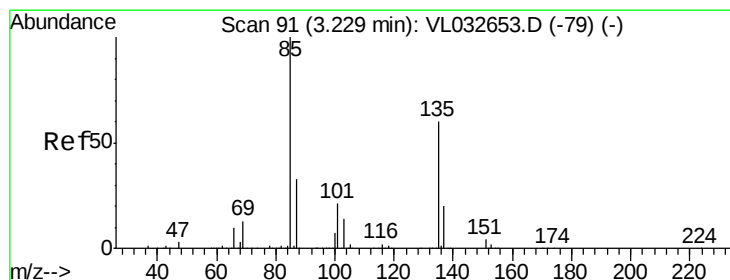
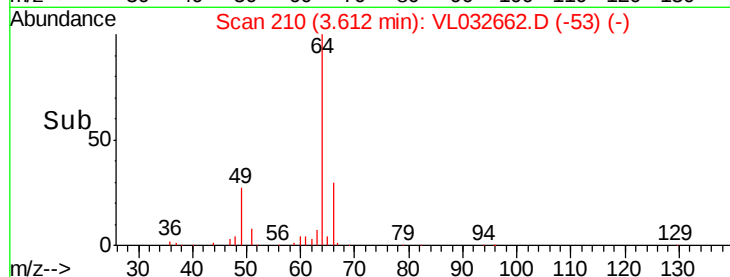
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.819 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.00 min

Lab File: VL032662.D

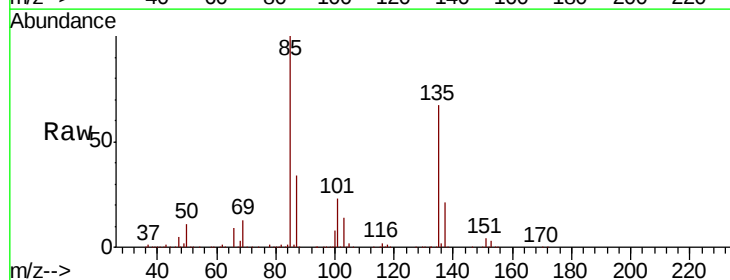
Acq: 19 Oct 2018 00:24

Tgt Ion: 85 Resp: 1570848

Ion Ratio Lower Upper

85 100

135 67.2 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

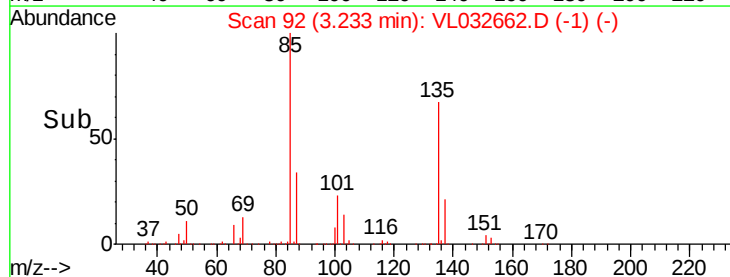
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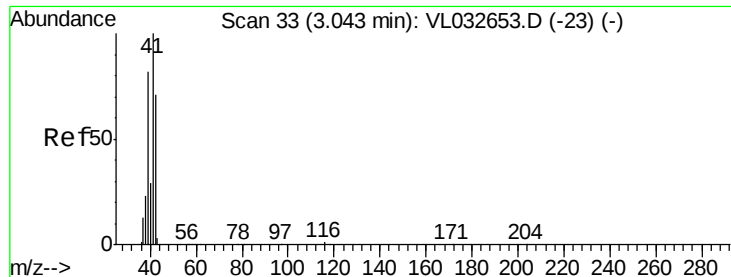
500000

0

3.20 3.25

Time-->





#9

Propene

Concen: 10.038 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 41 Resp: 535841

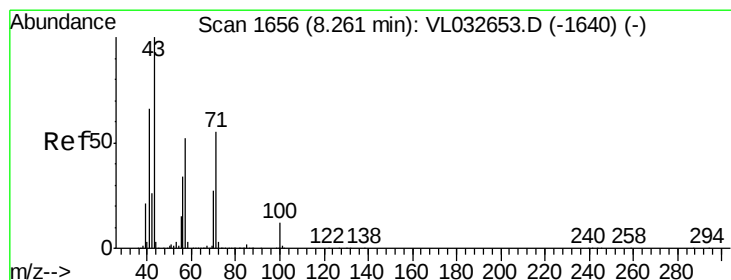
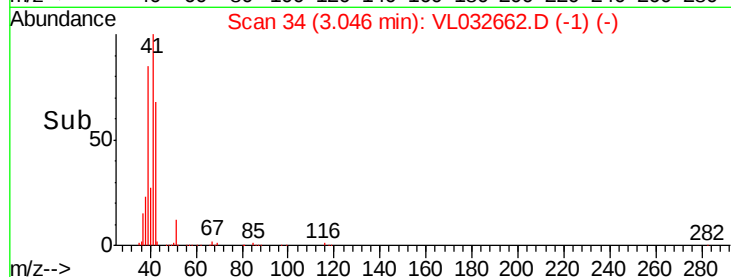
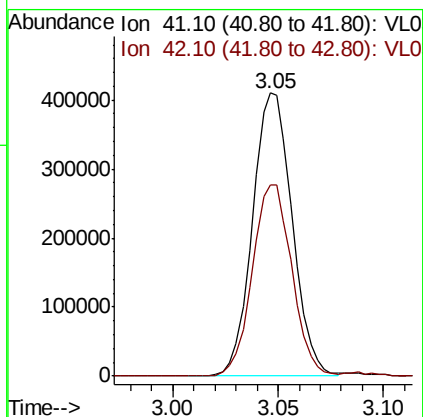
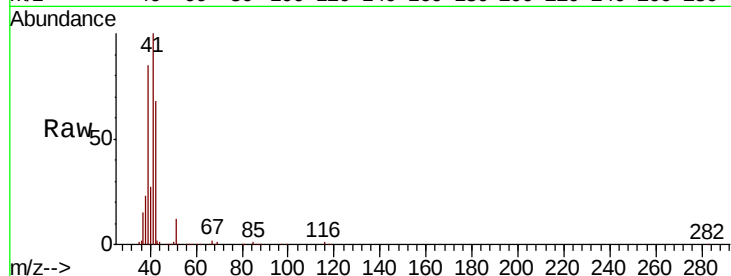
Ion Ratio Lower Upper

41 100

42 68.7 55.4 83.0

Manual Integrations
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#10

Heptane

Concen: 10.111 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032662.D

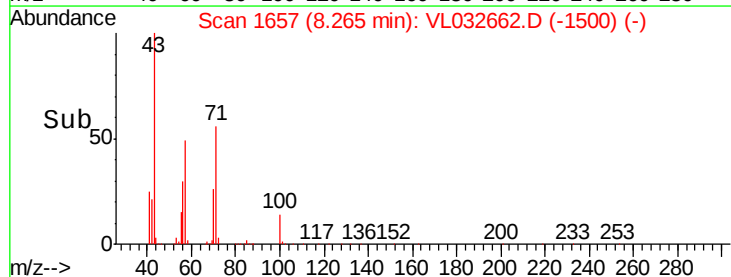
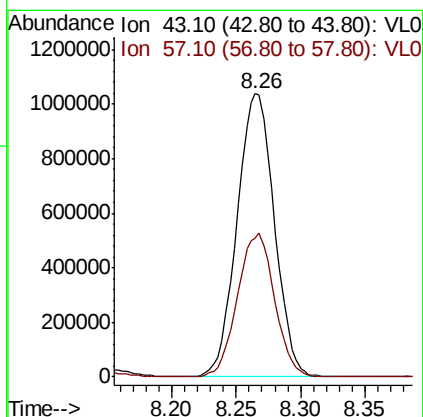
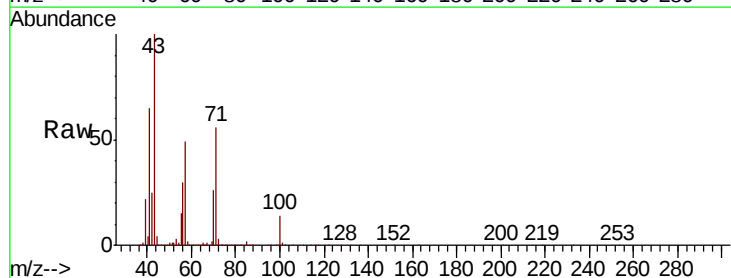
Acq: 19 Oct 2018 00:24

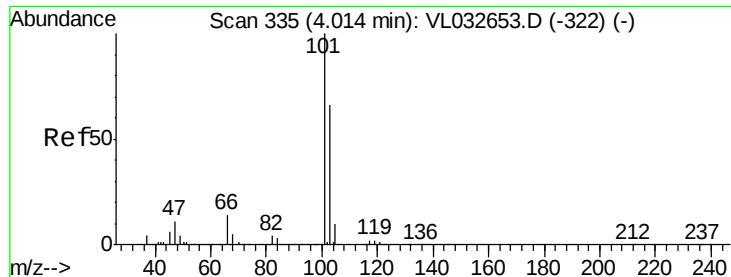
Tgt Ion: 43 Resp: 2079968

Ion Ratio Lower Upper

43 100

57 50.5 41.5 62.3





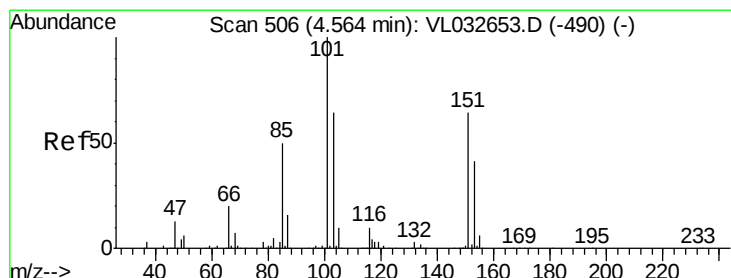
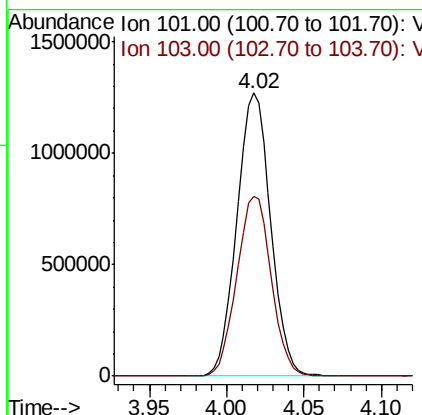
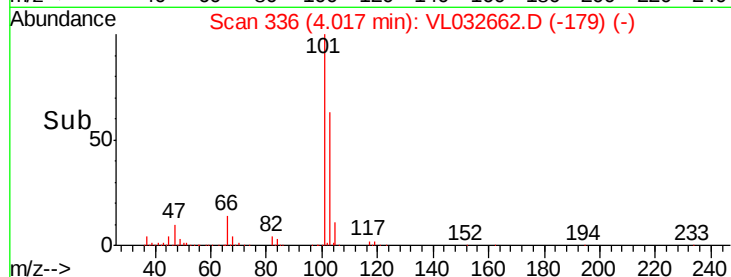
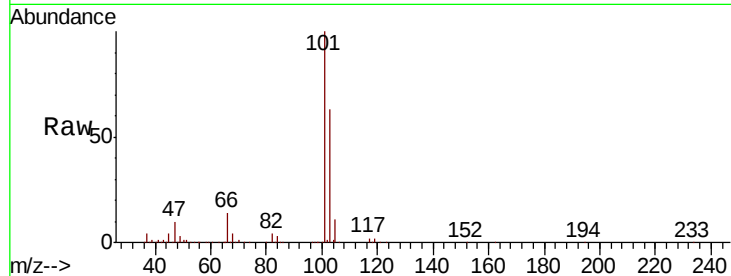
#11
 Trichlorofluoromethane
 Concen: 8.732 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

Tot Ion:101 Resp: 1927486
 Ion Ratio Lower Upper
 101 100
 103 63.4 51.4 77.2

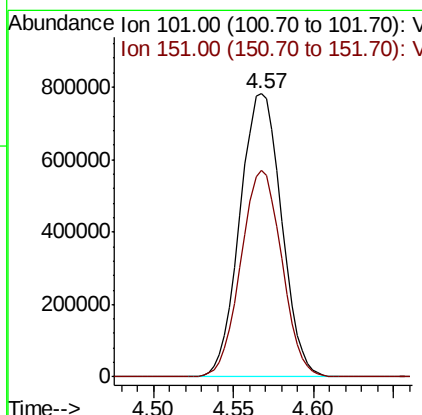
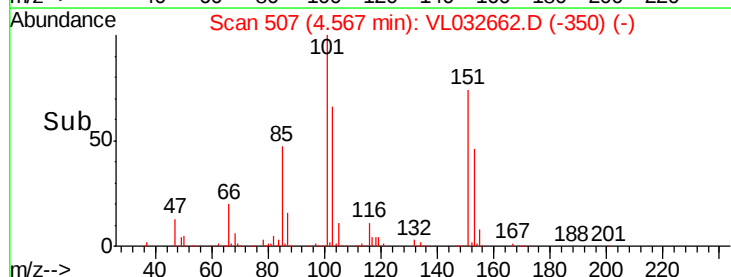
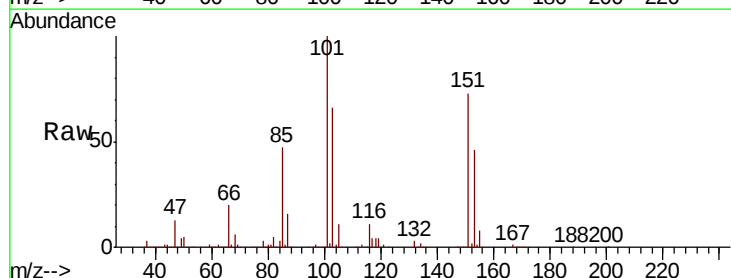
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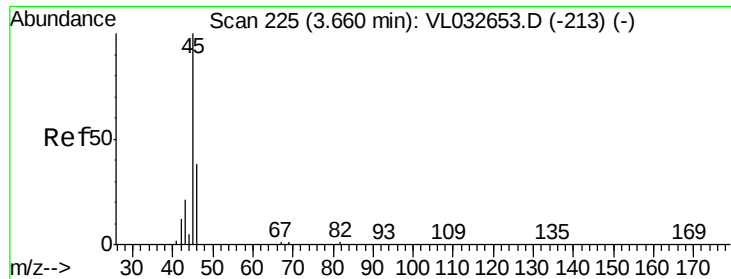
MMDadoda
 10/24/2018 12:05:01 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 7.574 ppbv
 RT: 4.57 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Tgt Ion:101 Resp: 1390411
 Ion Ratio Lower Upper
 101 100
 151 71.8 52.3 78.5





#13

Ethanol

Concen: 8.628 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 45 Resp: 131635

Ion Ratio Lower Upper

45 100

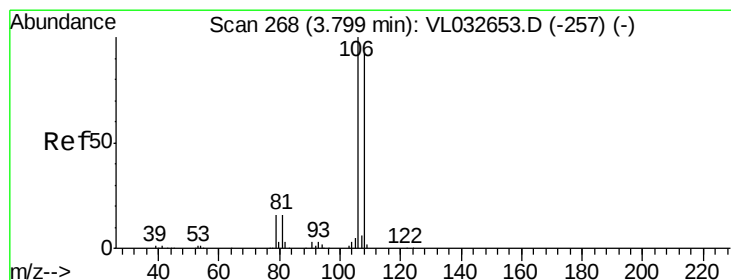
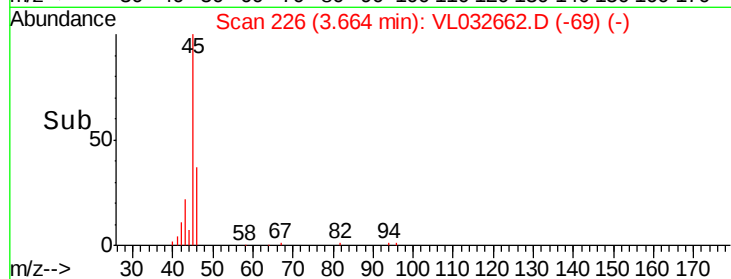
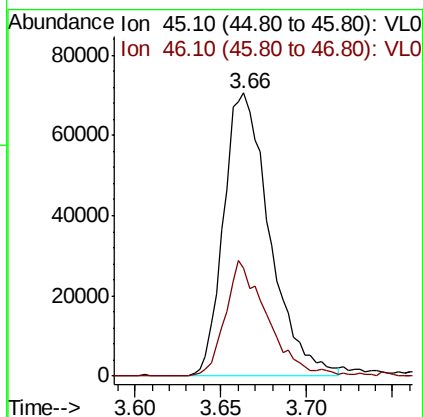
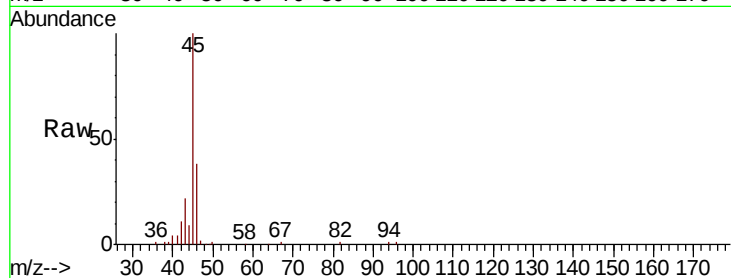
46 37.2 15.4 61.8

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#14

Bromoethene

Concen: 8.852 ppbv

RT: 3.80 min Scan# 269

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

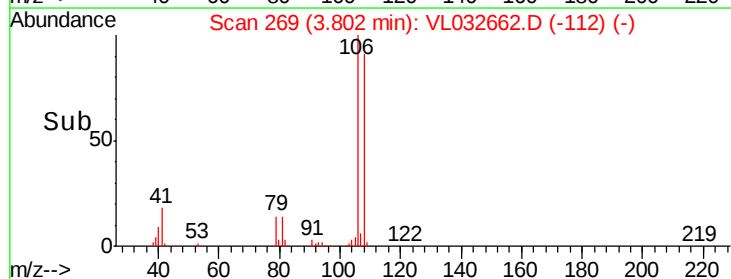
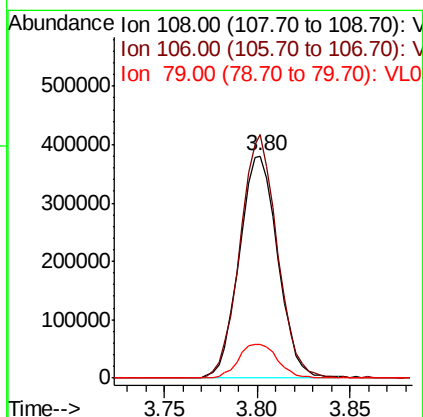
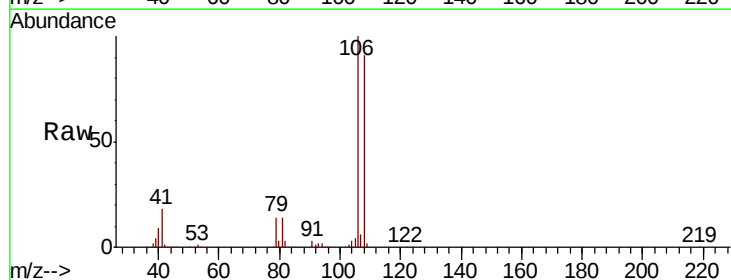
Tgt Ion: 108 Resp: 549162

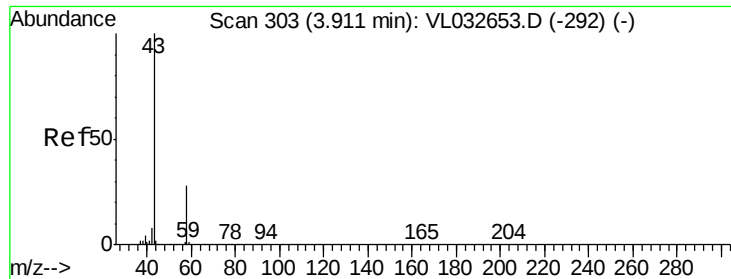
Ion Ratio Lower Upper

108 100

106 106.1 85.0 127.4

79 15.9 13.7 20.5





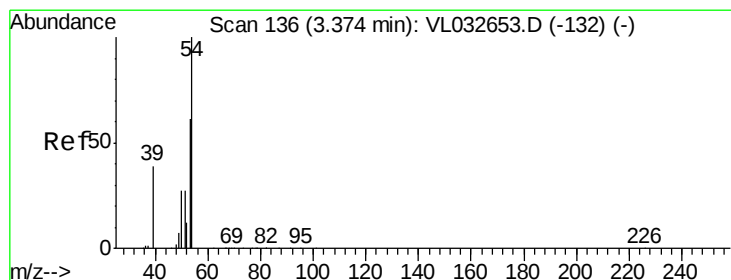
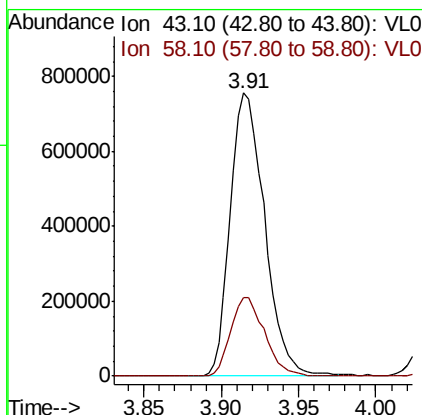
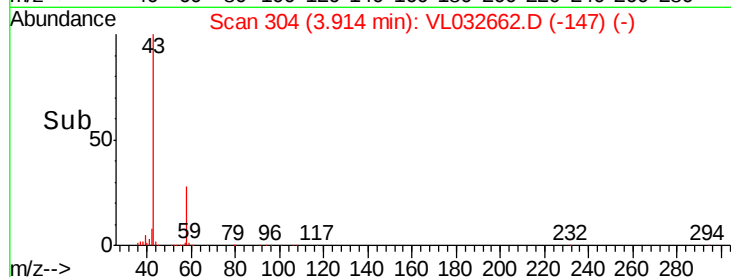
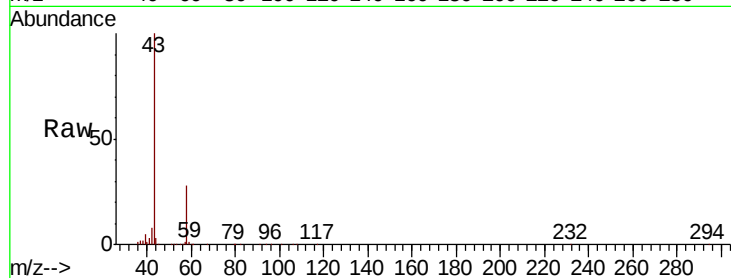
#15
Acetone
Concen: 7.608 ppbv
RT: 3.91 min Scan# 304
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion: 43 Resp: 1165197
Ion Ratio Lower Upper
43 100
58 27.7 22.1 33.1

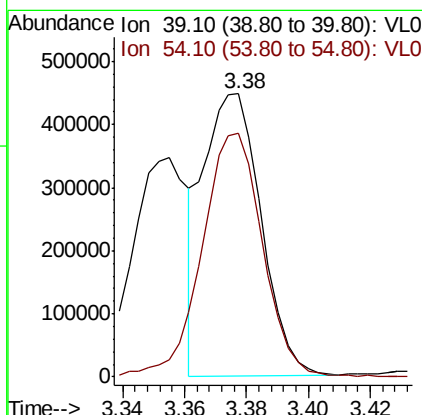
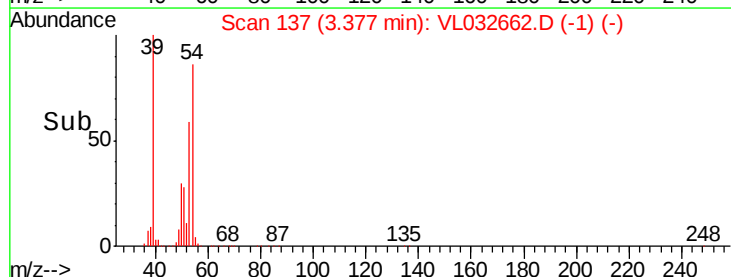
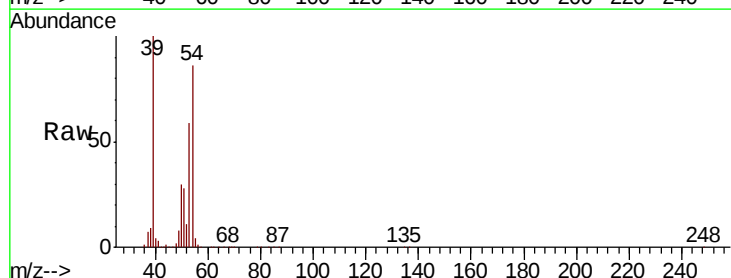
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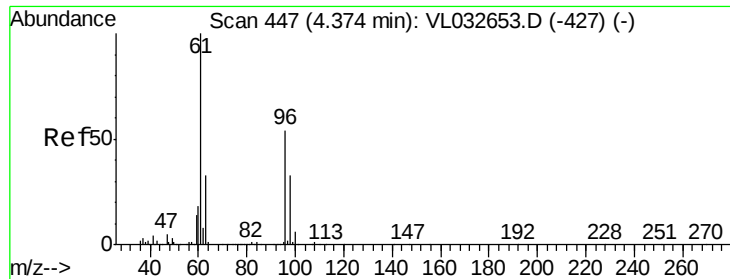
MMDadoda
10/24/2018 12:05:01 PM



#16
1,3-Butadiene
Concen: 10.267 ppbv
RT: 3.38 min Scan# 137
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion: 39 Resp: 578472
Ion Ratio Lower Upper
39 100
54 91.5 90.4 135.6





#17

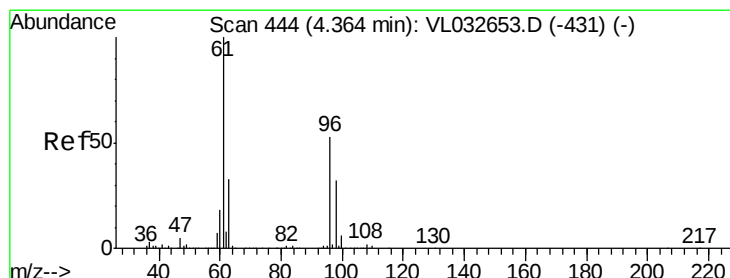
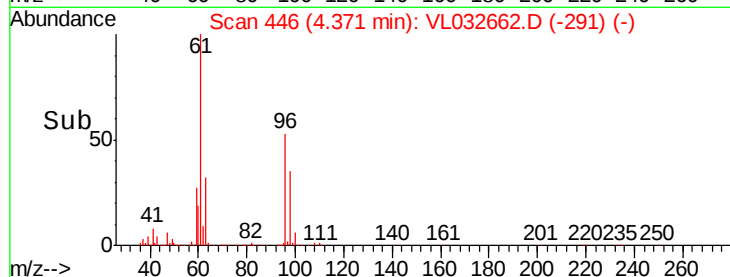
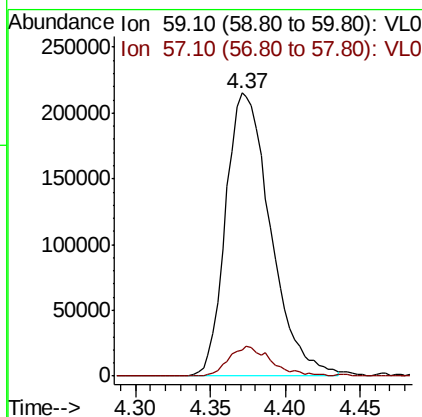
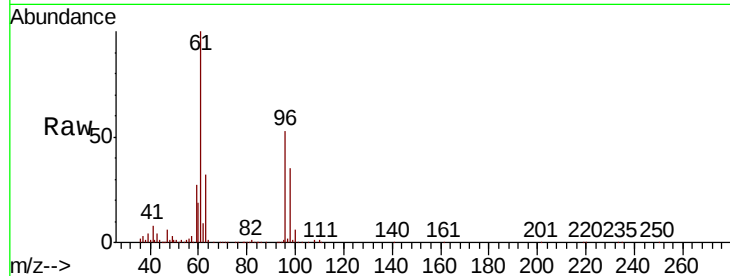
tert-Butyl alcohol
Concen: 9.901 ppbv
RT: 4.37 min Scan# 446
Delta R.T. -0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.3	0.0	0.0#

Manual Integrations
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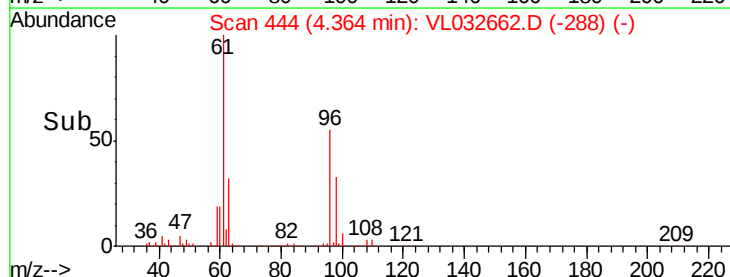
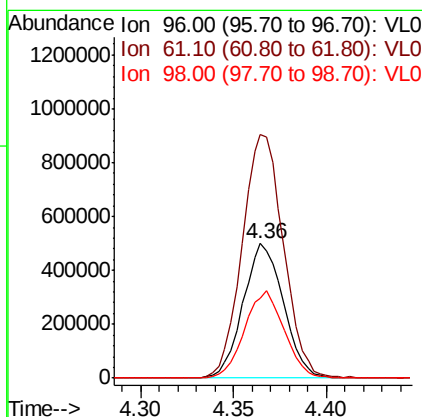
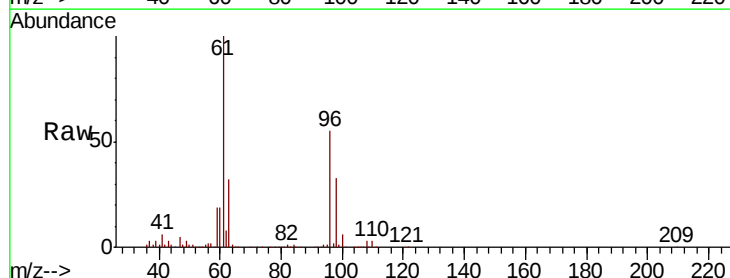
MMDadoda
10/24/2018 12:05:01 PM

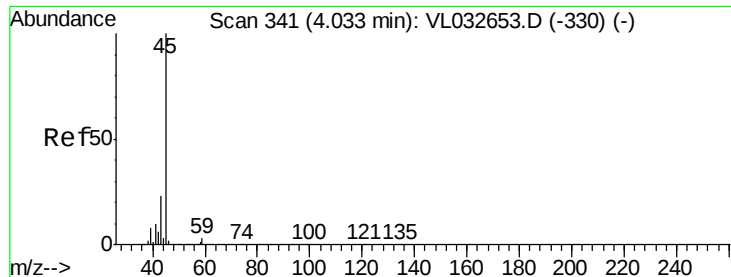


#18

1,1-Dichloroethene
Concen: 9.335 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.0	151.6	227.4
98	59.8	50.6	75.8





#19

Isopropyl Alcohol

Concen: 8.622 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.01 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 45 Resp: 940417

Ion Ratio Lower Upper

45 100

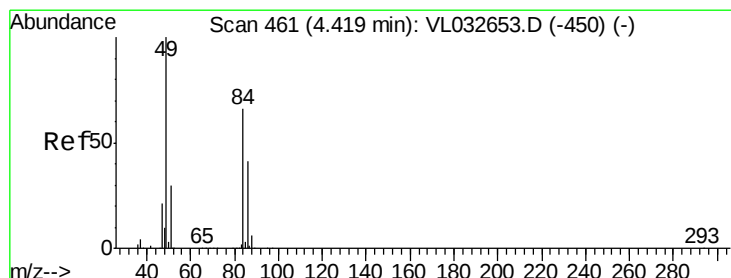
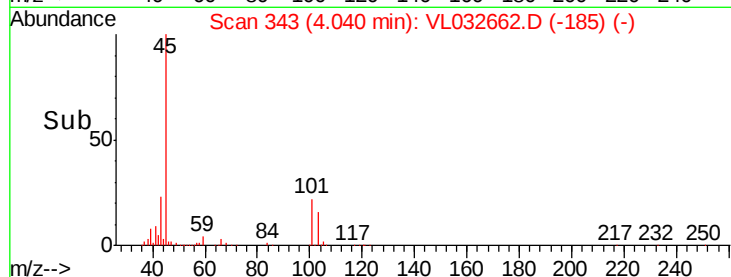
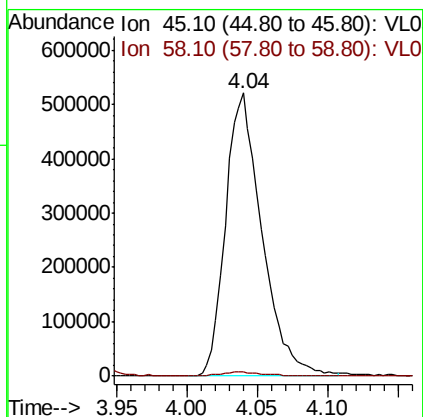
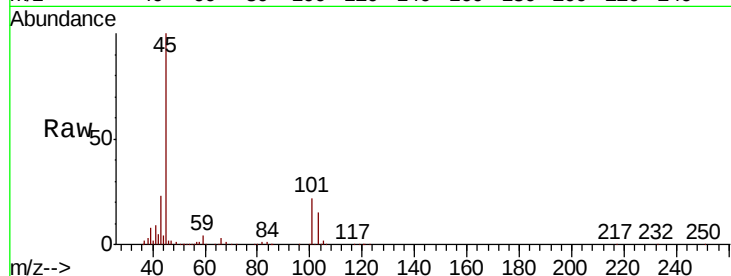
58 1.8 2.0 3.0#

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#20

Methylene Chloride

Concen: 8.366 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Tgt Ion: 84 Resp: 650411

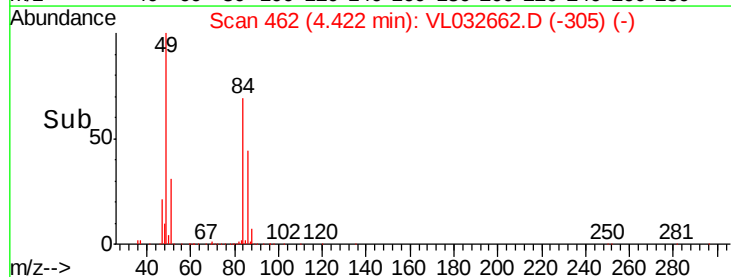
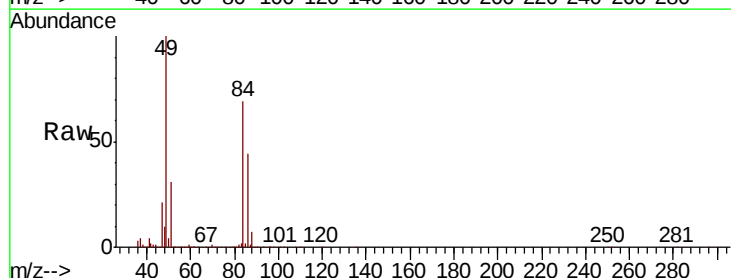
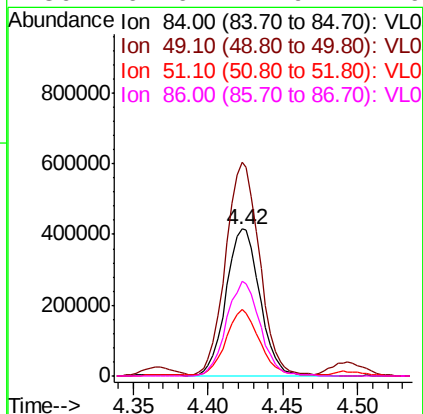
Ion Ratio Lower Upper

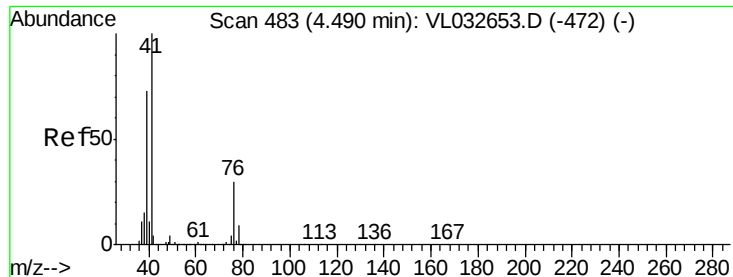
84 100

49 144.5 113.5 170.3

51 45.1 34.8 52.2

86 64.6 47.9 71.9





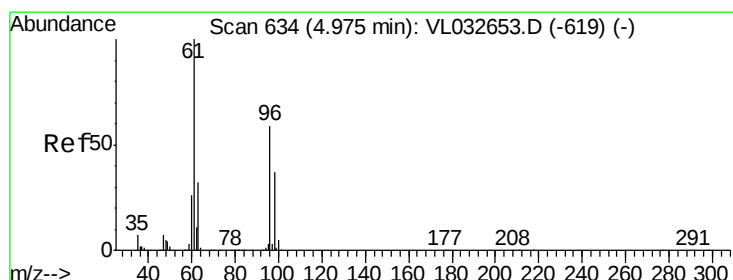
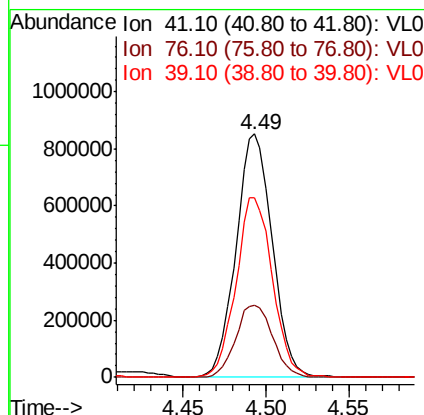
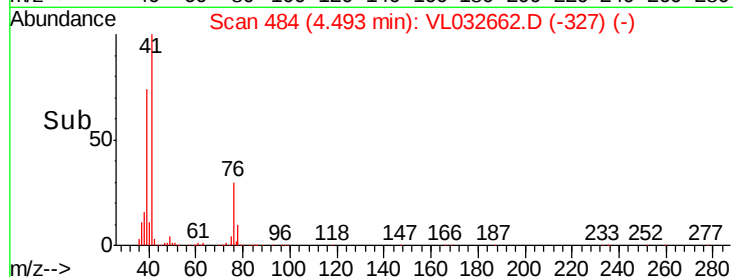
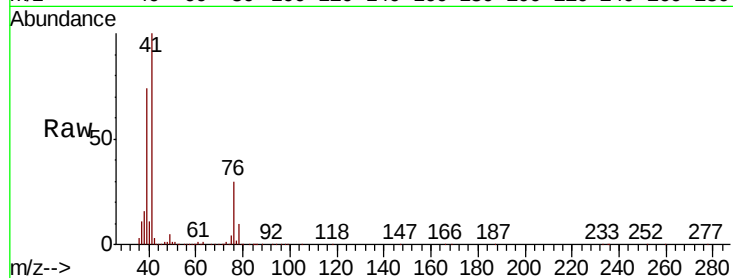
#21
Allvl Chloride
Concen: 10.235 ppbv
RT: 4.49 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion: 41 Resp: 1287140
Ion Ratio Lower Upper
41 100
76 30.6 24.3 36.5
39 74.9 60.3 90.5

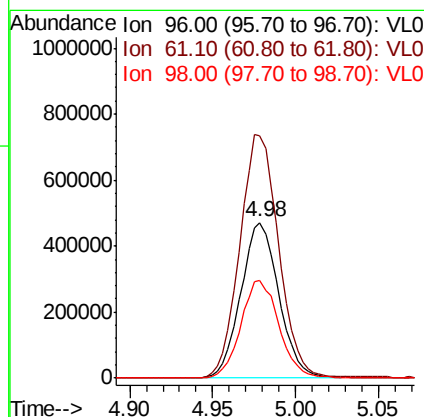
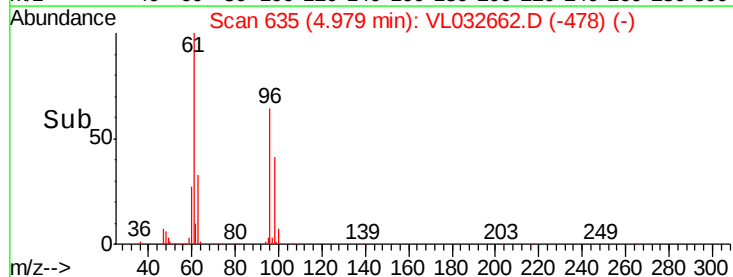
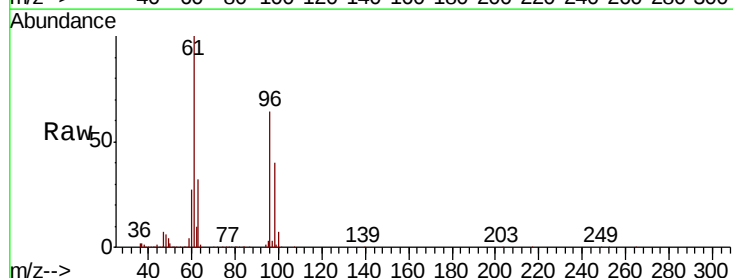
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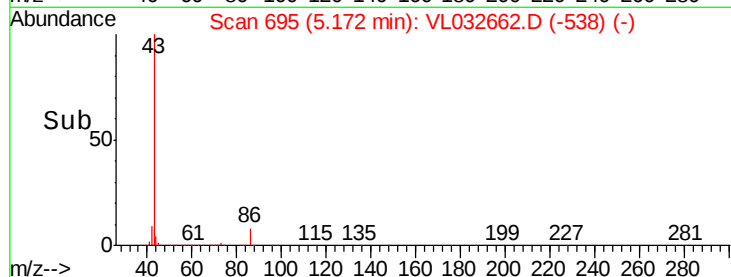
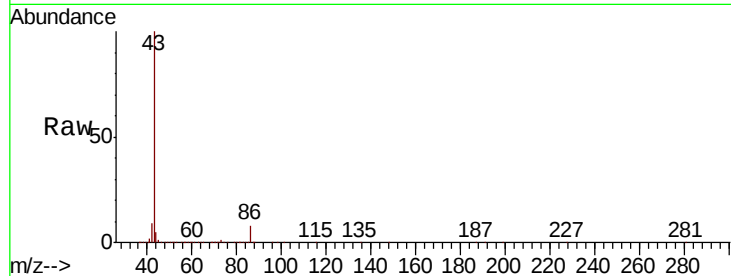
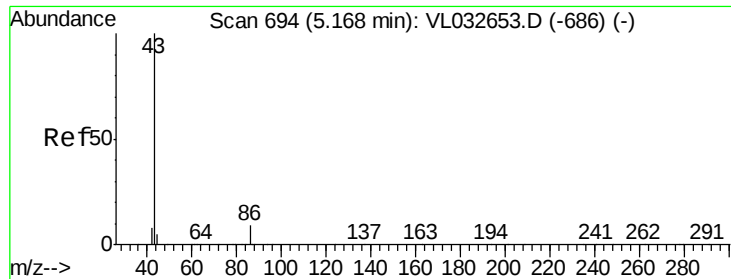
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#22
trans-1,2-Dichloroethene
Concen: 9.074 ppbv
RT: 4.98 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion: 96 Resp: 750622
Ion Ratio Lower Upper
96 100
61 155.9 140.4 210.6
98 63.0 55.0 82.6





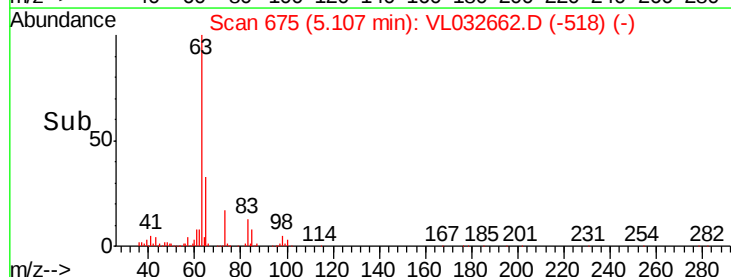
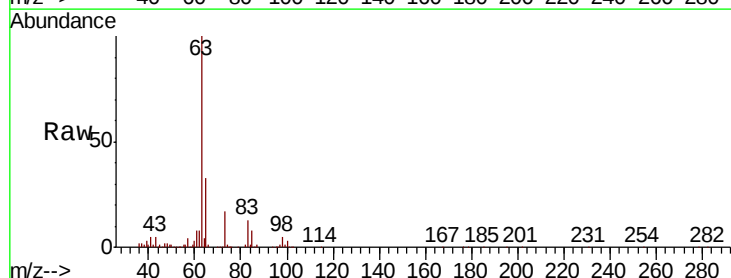
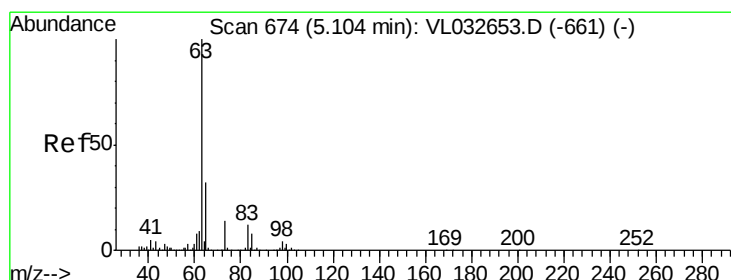
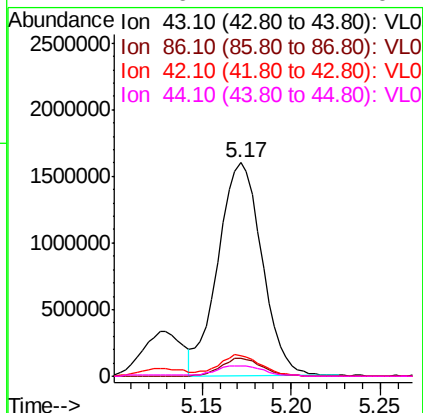
#23
 Vinyl Acetate
 Concen: 10.083 ppbv
 RT: 5.17 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Tot Ion	43	Resp	2736695
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.1	9.1
42	9.3	7.4	11.2
44	4.6	4.2	6.2

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

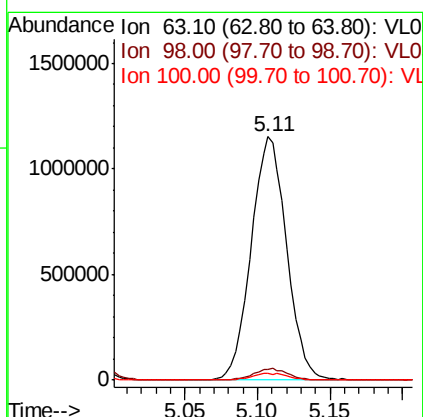
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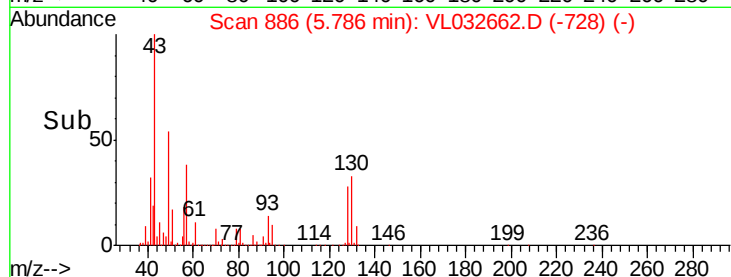
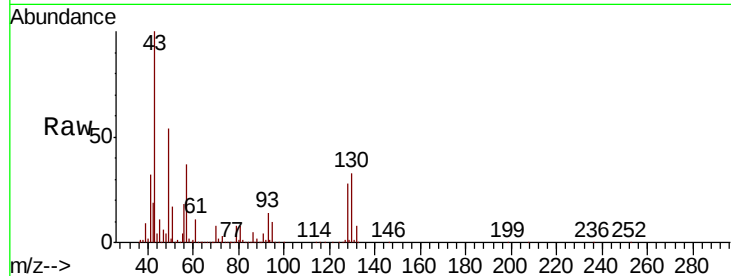
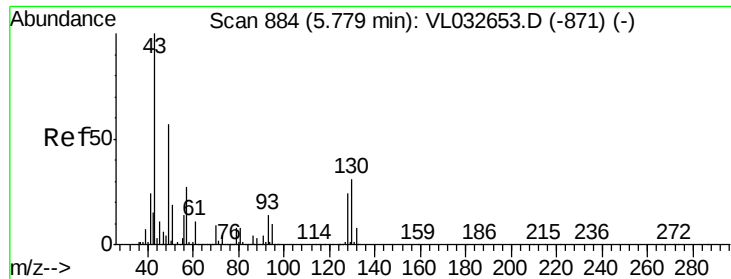
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#24
 1,1-Dichloroethane
 Concen: 9.166 ppbv
 RT: 5.11 min Scan# 675
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Tgt Ion	63	Resp	1952893
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.3
100	3.0	1.2	3.6





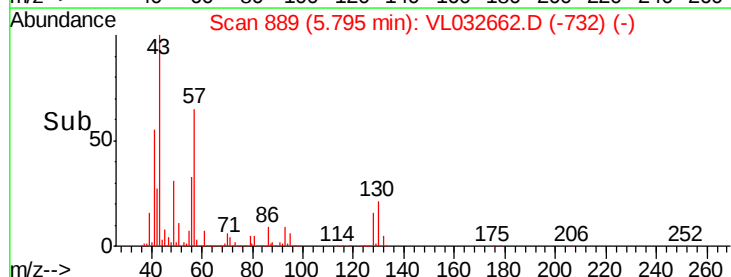
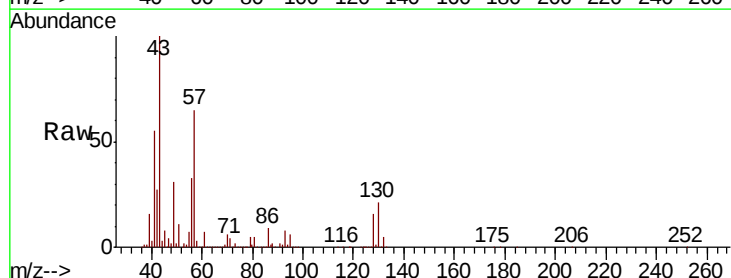
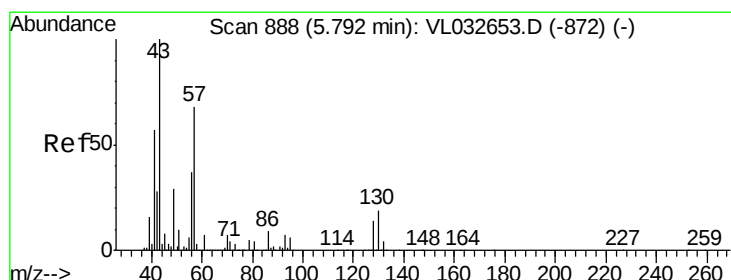
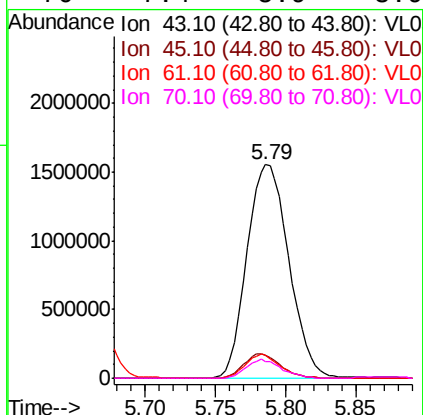
#25
Ethyl Acetate
Concen: 9.163 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tot Ion	43	Resp	3230337
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	9.6	8.0	12.0
70	7.4	5.9	8.9

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

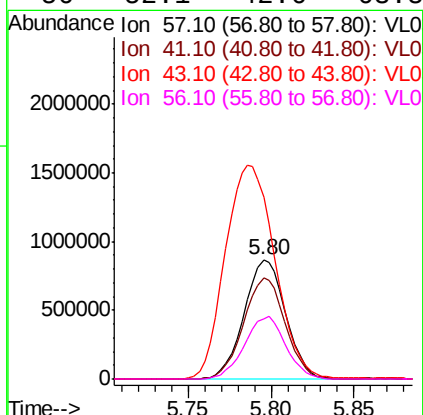
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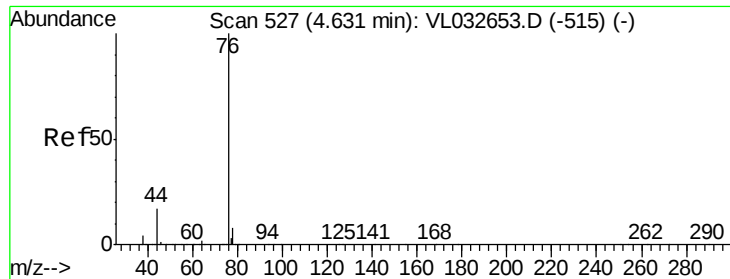
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#26
Hexane
Concen: 9.051 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	57	Resp	1509817
Ion	Ratio	Lower	Upper
57	100		
41	85.3	67.4	101.0
43	215.1	171.9	257.9
56	52.1	42.6	63.8





#27

Carbon Disulfide

Concen: 8.616 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 76 Resp: 1743474

Ion Ratio Lower Upper

76 100

44 16.9 13.7 20.5

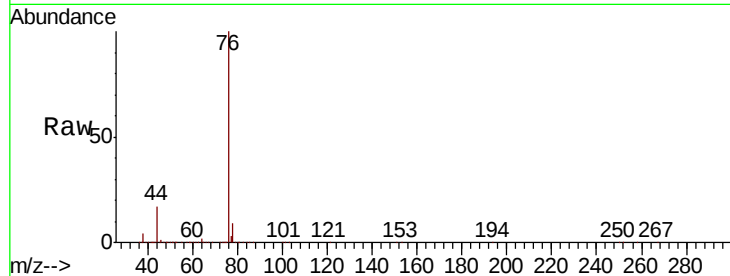
78 9.3 7.4 11.2

Manual Integrations

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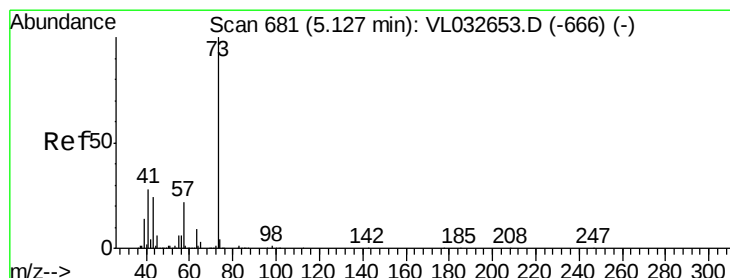
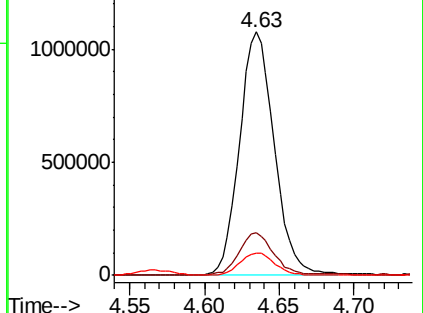
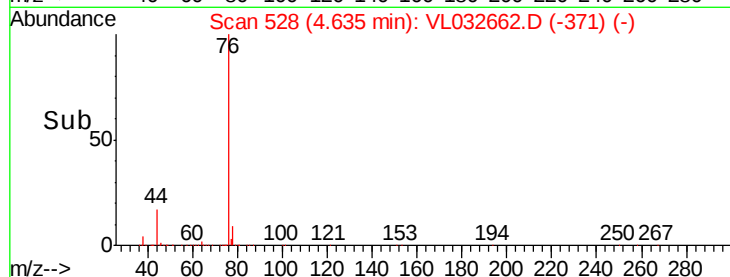
10/24/2018 12:05:01 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.123 ppbv

RT: 5.13 min Scan# 682

Delta R.T. 0.00 min

Lab File: VL032662.D

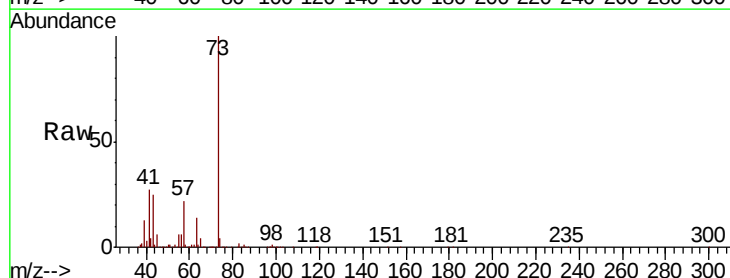
Acq: 19 Oct 2018 00:24

Tgt Ion: 73 Resp: 2426753

Ion Ratio Lower Upper

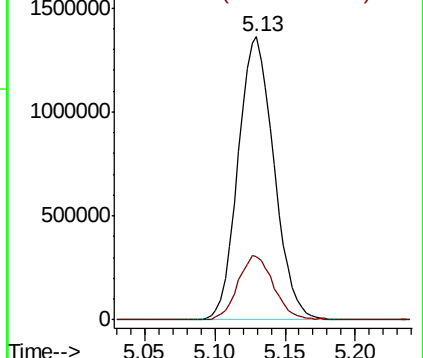
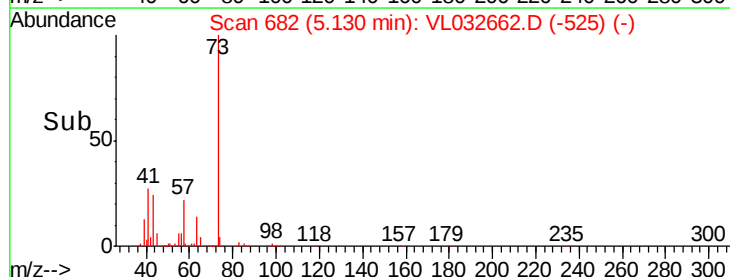
73 100

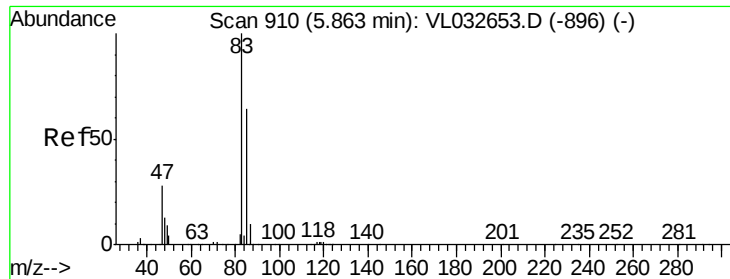
57 22.8 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 8.816 ppbv

RT: 5.87 min Scan# 911

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 83 Resp: 2349024

Ion Ratio Lower Upper

83 100

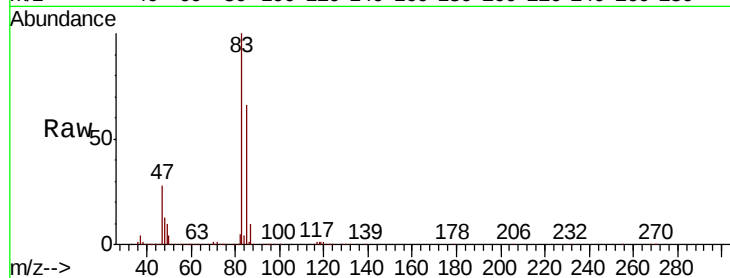
85 66.0 53.0 79.6

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

1500000

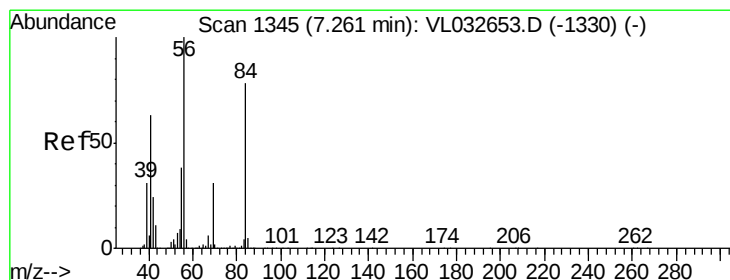
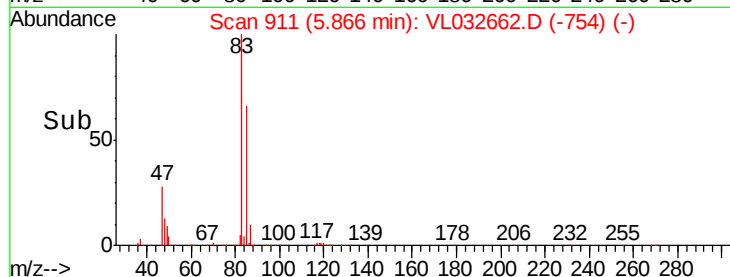
1000000

500000

0

5.80 5.85 5.90

Time-->



#30

Cyclohexane

Concen: 10.572 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

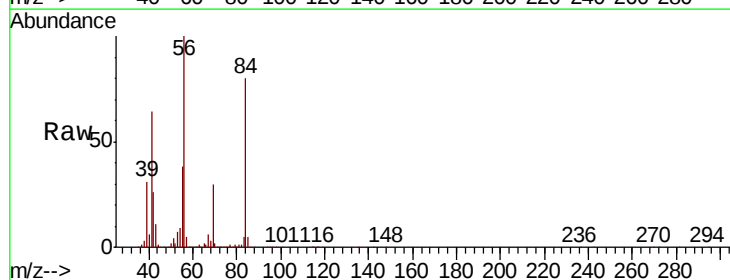
Tgt Ion: 84 Resp: 1395880

Ion Ratio Lower Upper

84 100

56 131.8 108.3 162.5

41 79.0 64.8 97.2



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

1000000

800000

600000

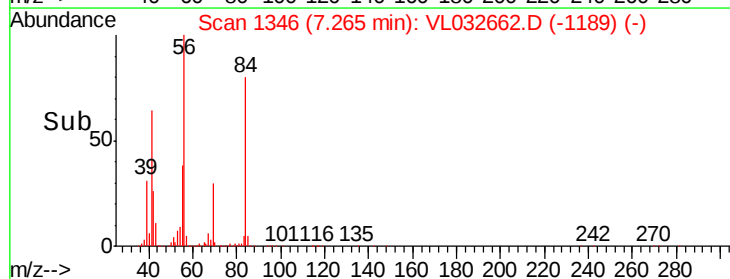
400000

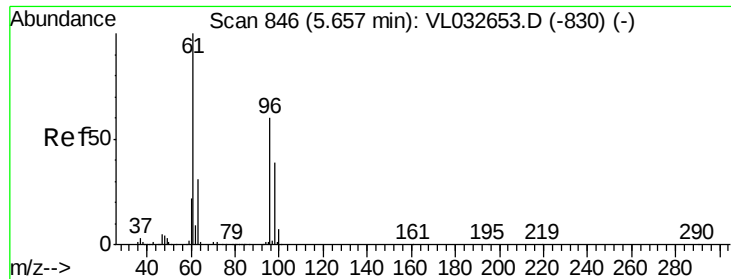
200000

0

7.20 7.25 7.30 7.35

Time-->





#31

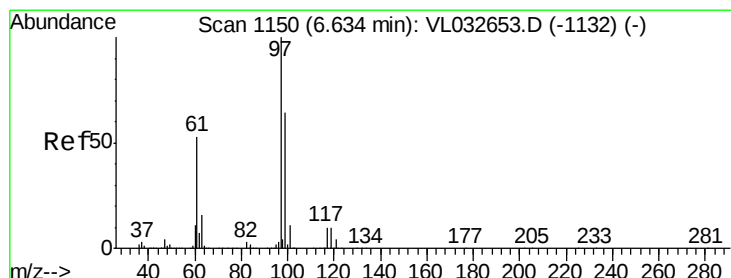
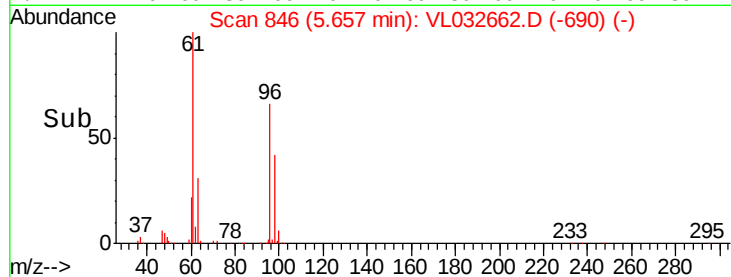
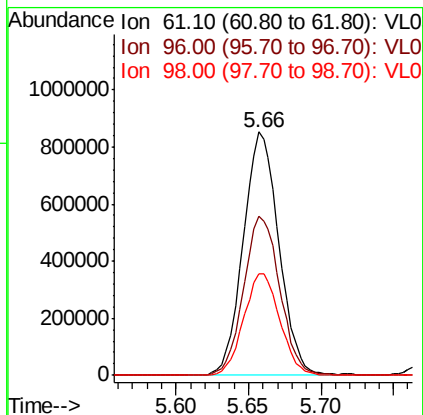
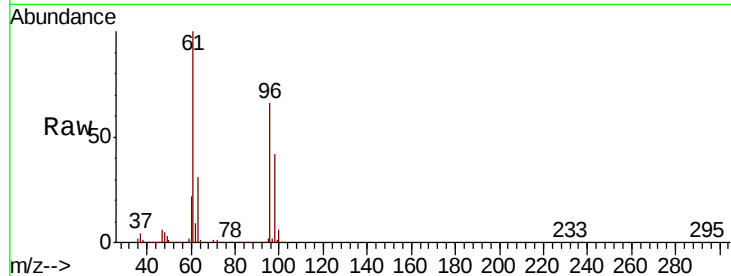
cis-1,2-Dichloroethene
 Concen: 9.433 ppbv
 RT: 5.66 min Scan# 846
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	65.6	51.8	77.6	
98	41.9	33.8	50.6	

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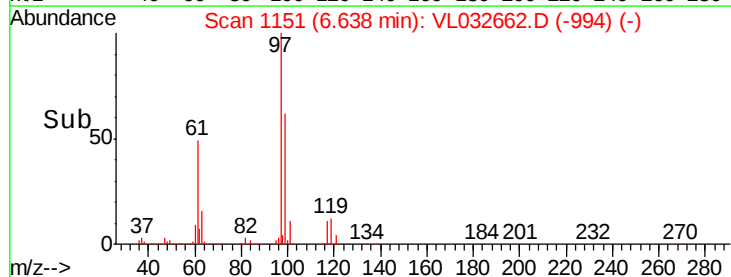
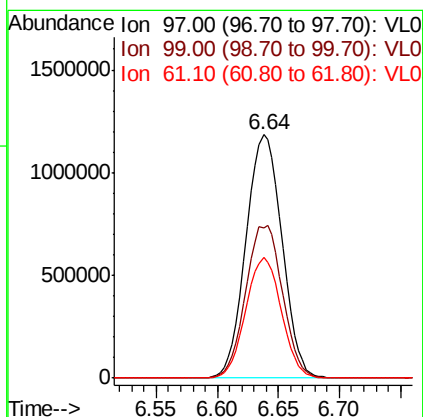
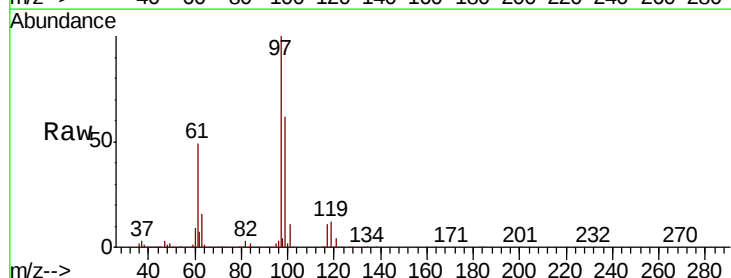
MMDadoda
 10/24/2018 12:05:01 PM

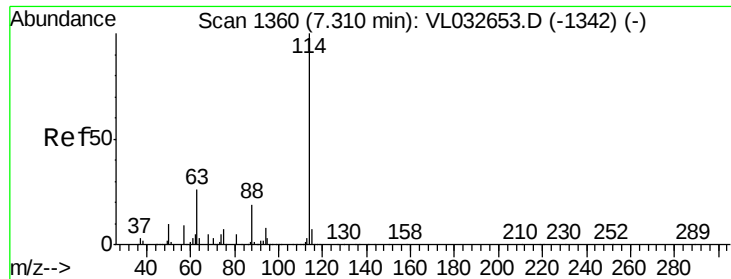


#32

1,1,1-Trichloroethane
 Concen: 8.916 ppbv
 RT: 6.64 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	64.2	52.0	78.0	
61	49.1	40.7	61.1	





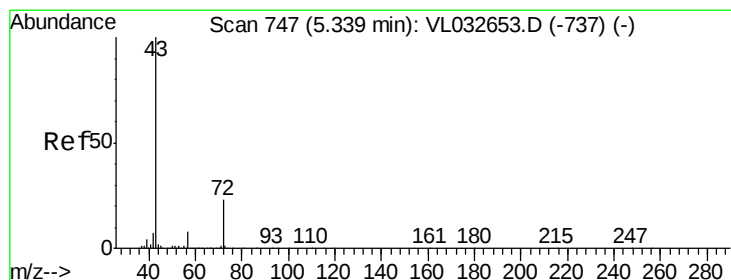
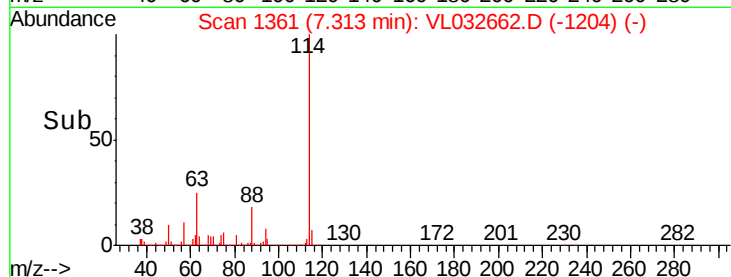
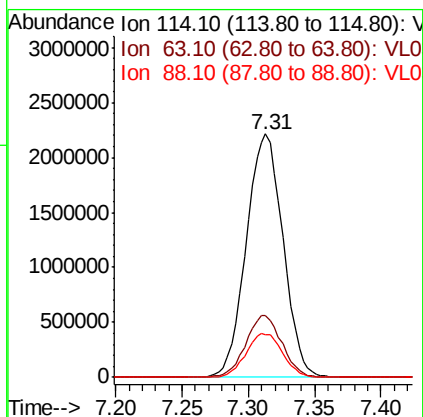
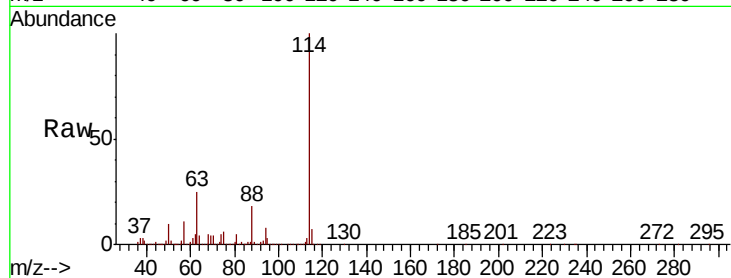
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	18.0	14.9	22.3

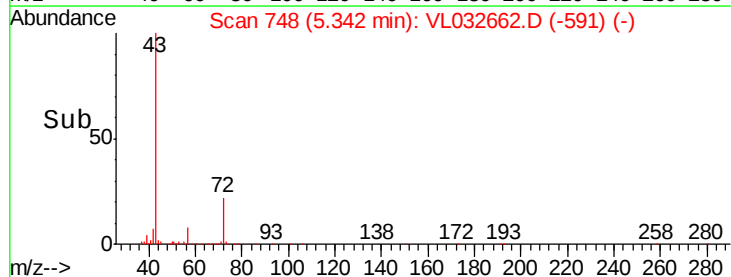
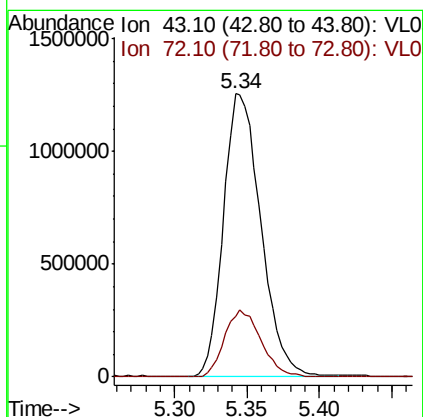
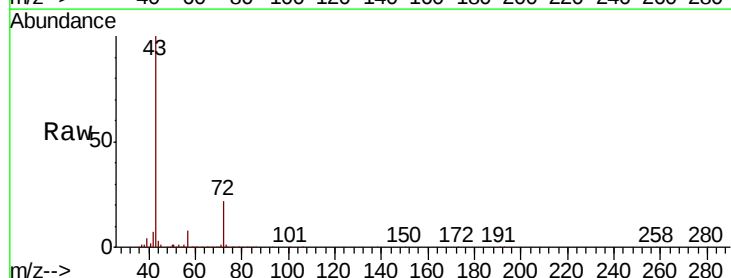
Manual Integrations
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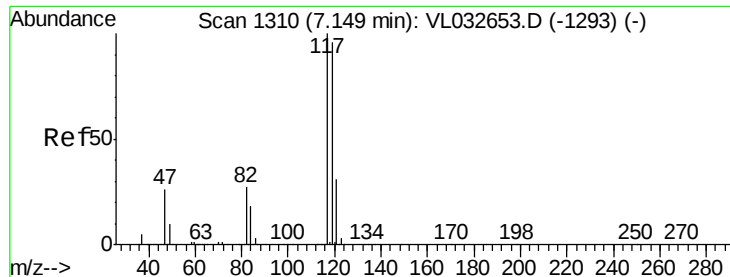
MMDadoda
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#34
 2-Butanone
 Concen: 9.785 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.6	27.8





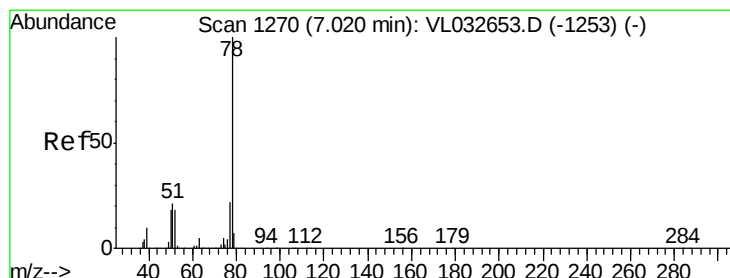
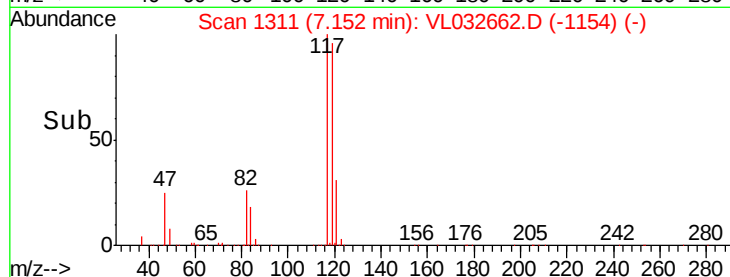
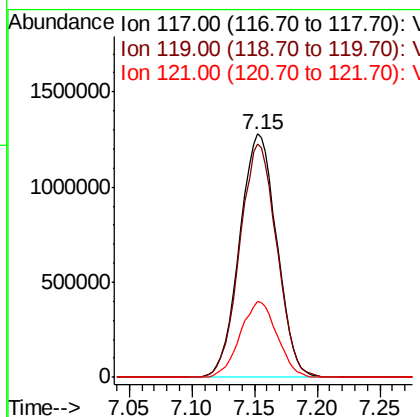
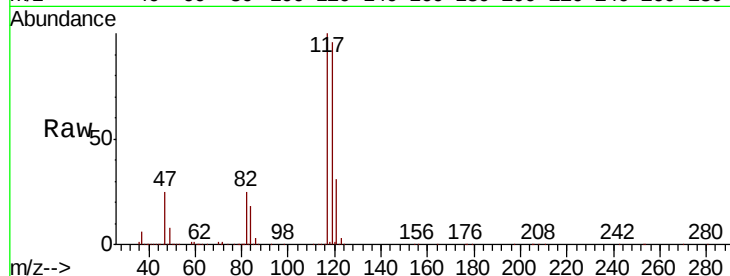
#35
Carbon Tetrachloride
Concen: 8.718 ppbv
RT: 7.15 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.7	113.5
121	31.1	24.7	37.1

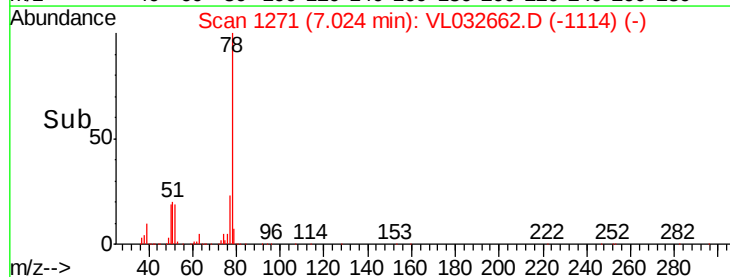
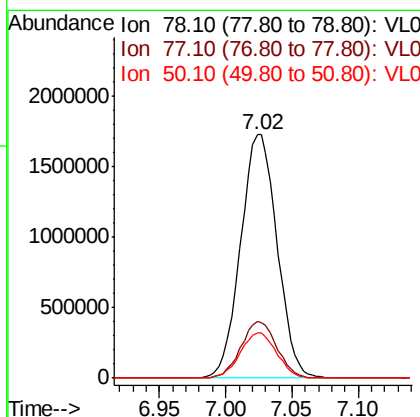
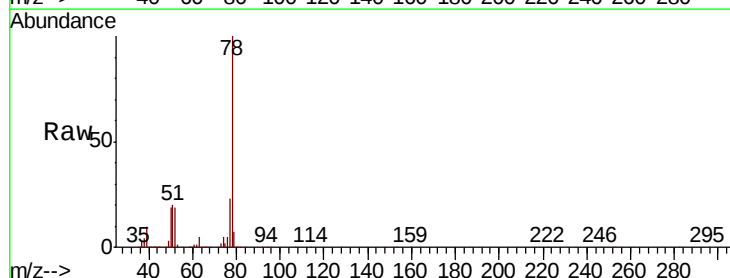
Manual Integrations
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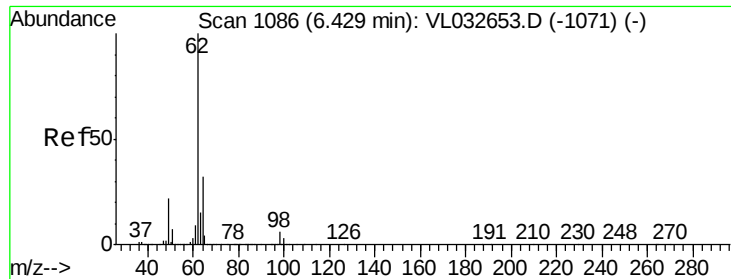
MMDadoda
10/24/2018 12:05:01 PM



#36
Benzene
Concen: 9.567 ppbv
RT: 7.02 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.1	27.1
50	18.5	15.1	22.7





#37

1,2-Dichloroethane

Concen: 8.816 ppbv

RT: 6.43 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 62 Resp: 1868036

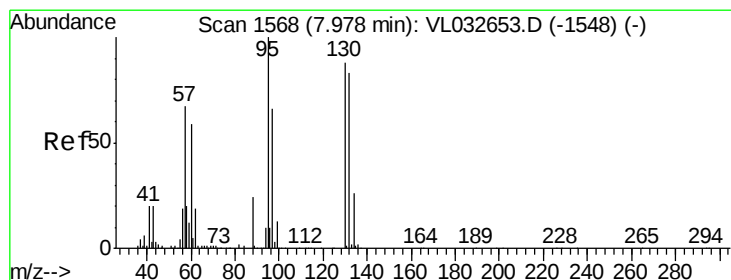
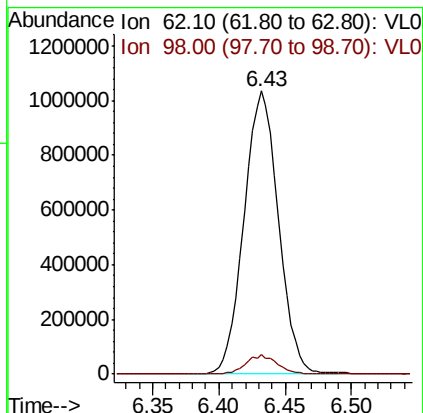
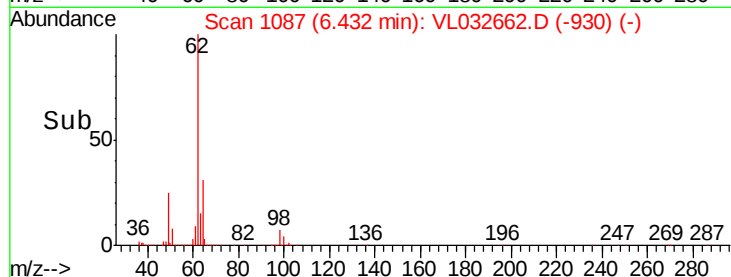
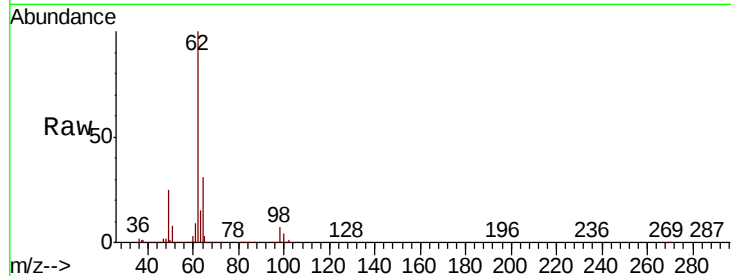
Ion Ratio Lower Upper

62 100

98 6.3 4.4 6.6

Manual Integrations
APPROVED

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10/24/2018 12:05:01 PM



#38

Trichloroethene

Concen: 9.816 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Tgt Ion: 130 Resp: 1255295

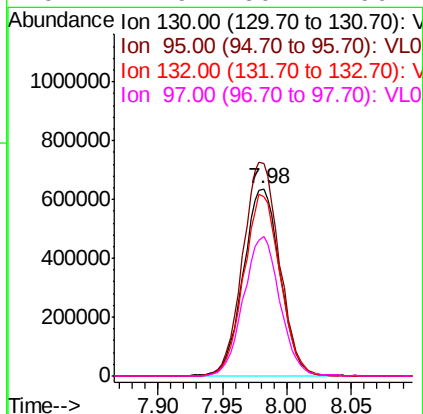
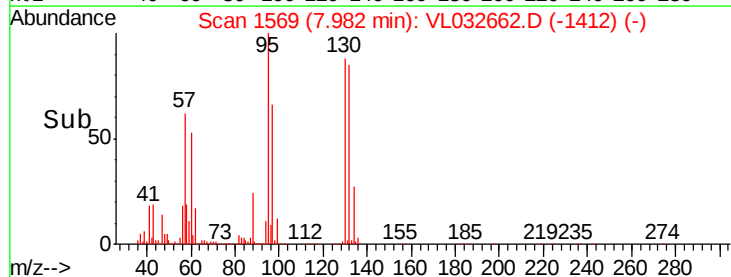
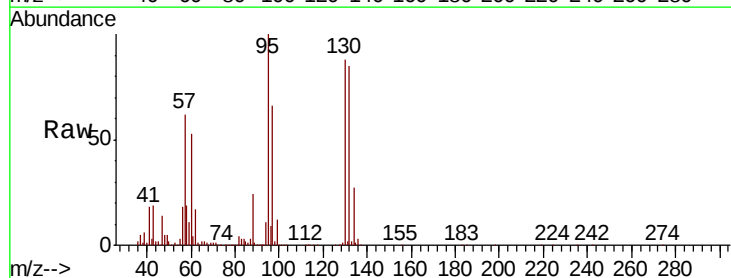
Ion Ratio Lower Upper

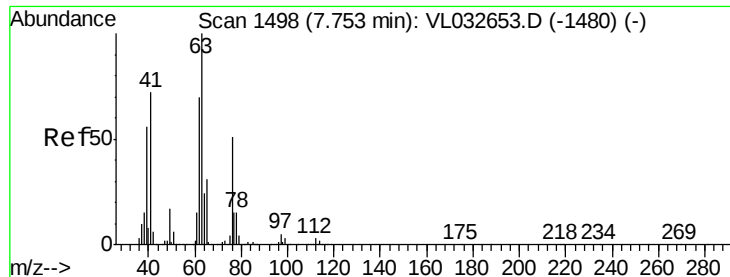
130 100

95 113.7 93.4 140.0

132 96.1 76.5 114.7

97 74.9 60.2 90.2





#39

1,2-Dichloropropane

Concen: 9.418 ppbv

RT: 7.76 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 63 Resp: 1256397

Ion Ratio Lower Upper

63 100

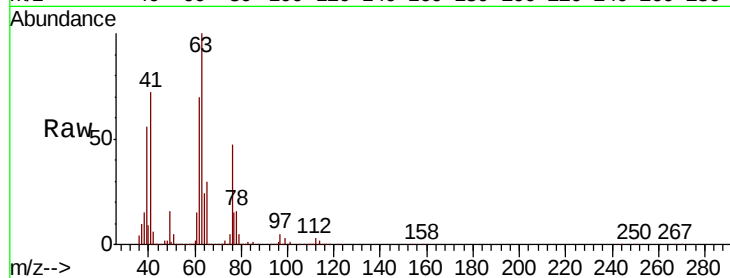
41 71.5 56.2 84.4

62 70.4 54.4 81.6

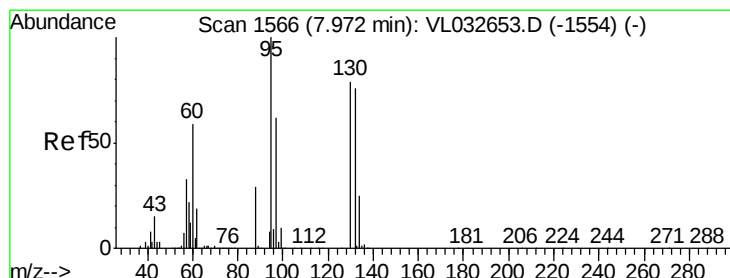
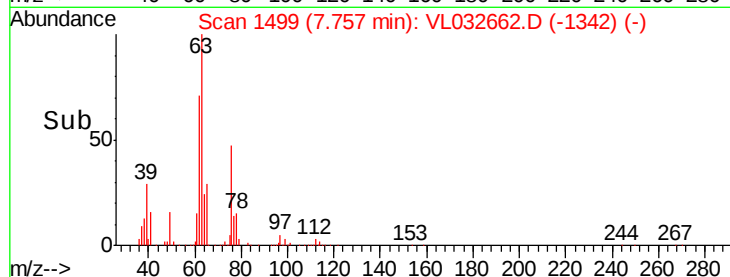
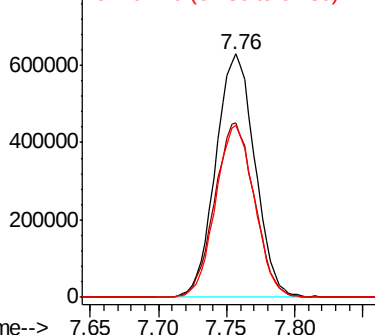
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.419 ppbv

RT: 7.98 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Tgt Ion: 88 Resp: 429126

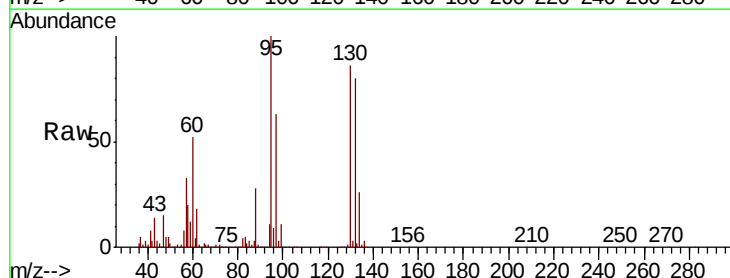
Ion Ratio Lower Upper

88 100

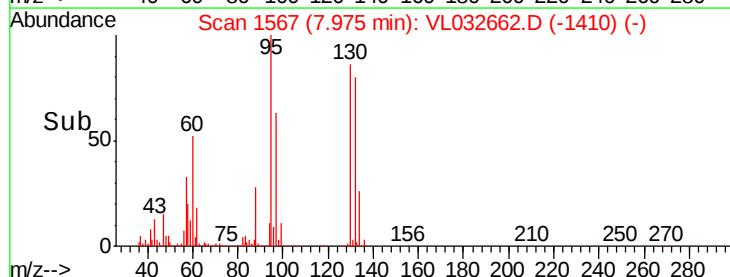
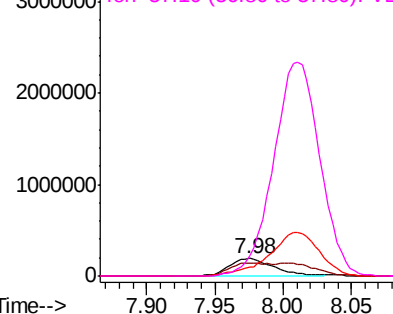
58 134.5 104.0 156.0

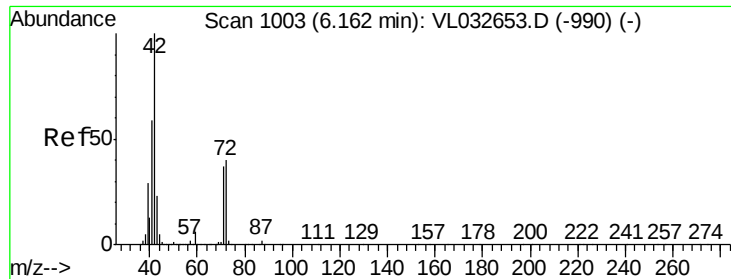
43 0.0 0.0 0.0

57 0.0 0.0 0.0



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





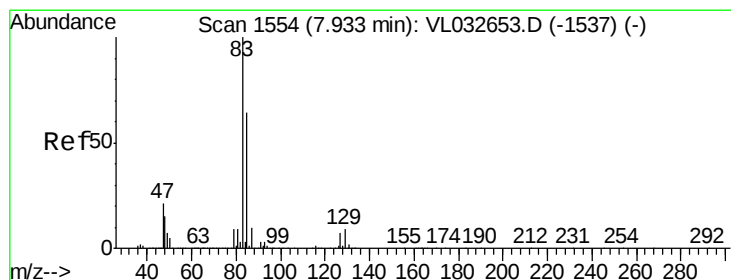
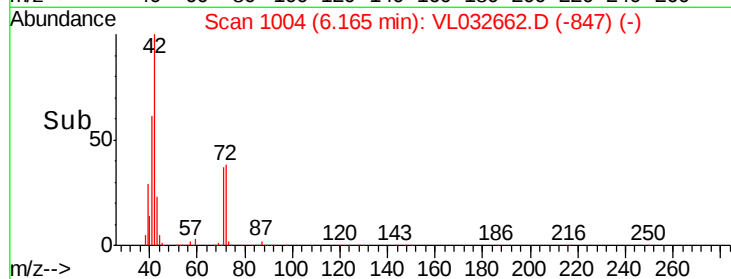
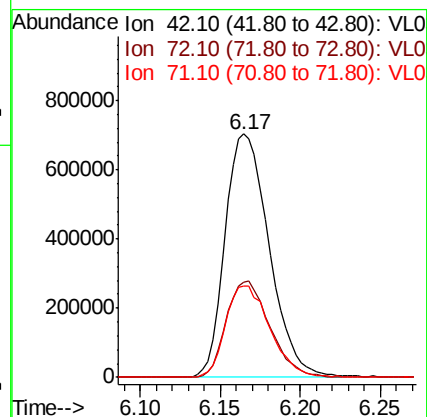
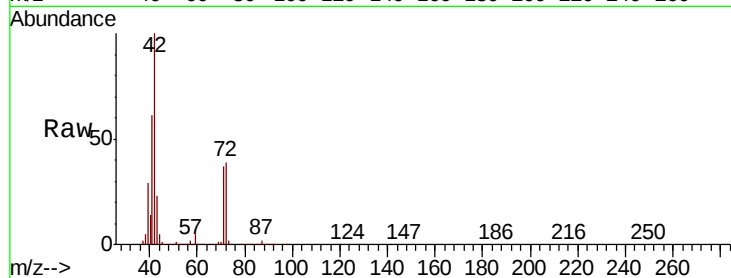
#41
Tetrahydrofuran
Concen: 10.395 ppbv
RT: 6.17 min Scan# 1004
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	32.4	48.6
71	38.3	31.3	46.9

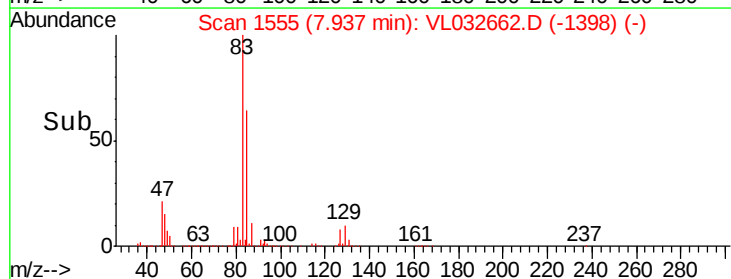
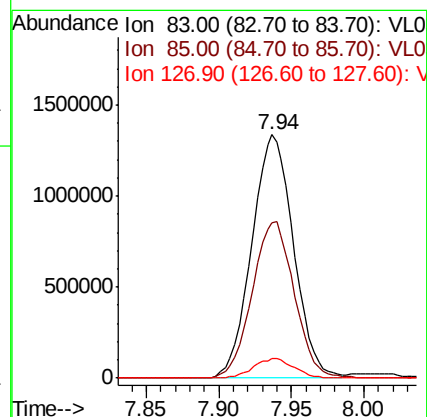
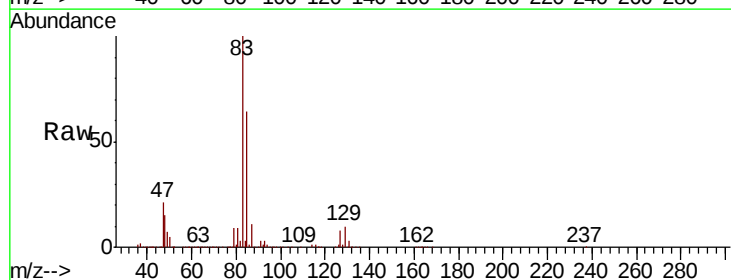
Manual Integrations
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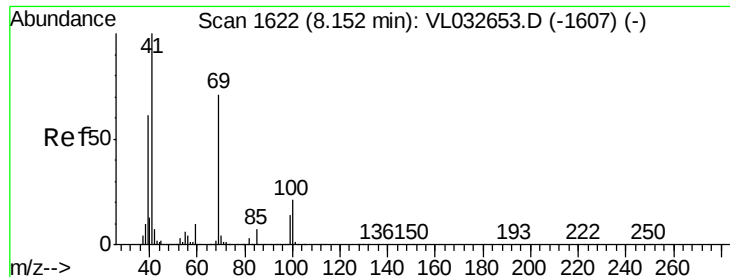
MMDadoda
10/24/2018 12:05:01 PM



#42
Bromodichloromethane
Concen: 9.005 ppbv
RT: 7.94 min Scan# 1555
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.4	78.6
127	7.9	6.1	9.1





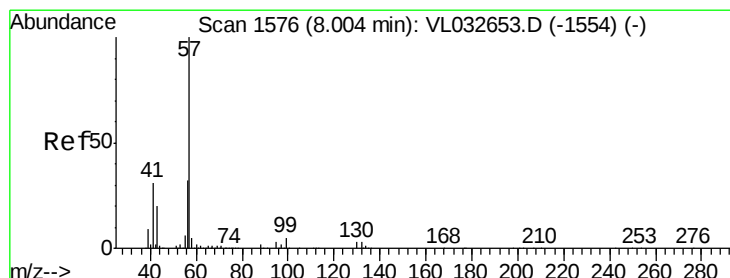
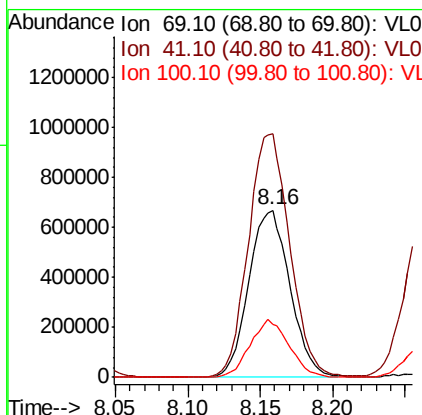
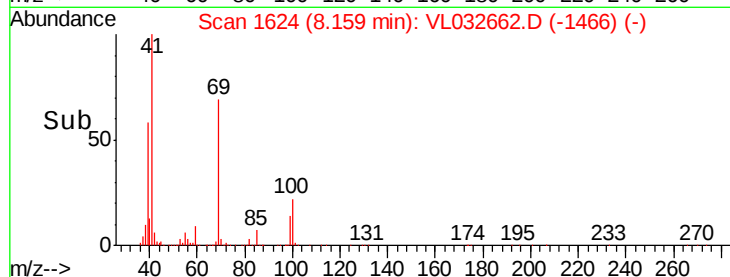
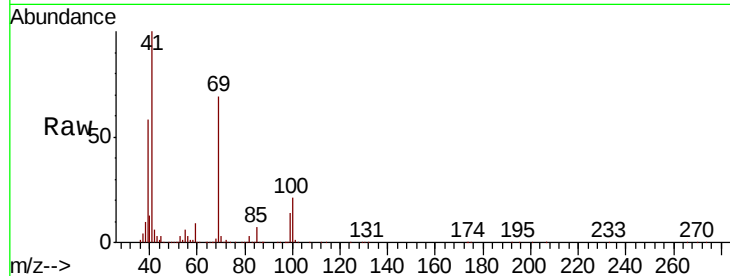
#43
Methvl Methacrylate
Concen: 10.467 ppbv
RT: 8.16 min Scan# 1624
Delta R.T. 0.01 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion: 69 Resp: 1325179
Ion Ratio Lower Upper
69 100
41 145.9 113.2 169.8
100 32.7 24.4 36.6

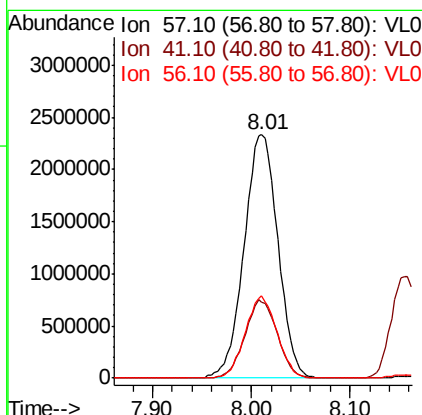
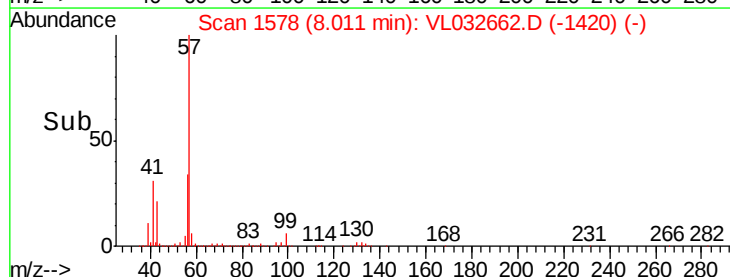
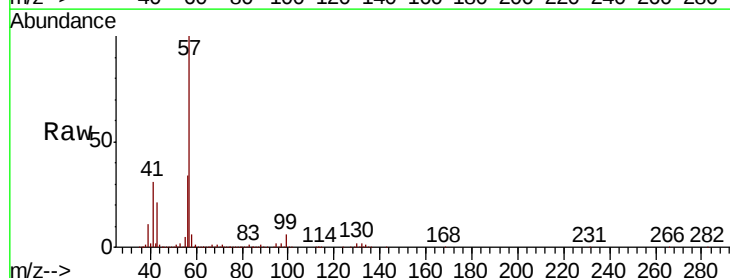
Manual Integrations
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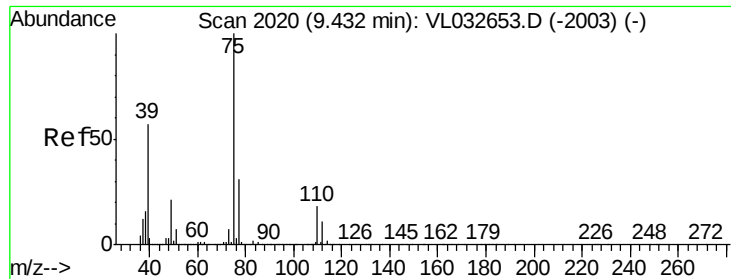
MMDadoda
10/24/2018 12:05:01 PM



#44
2,2,4-Trimethylpentane
Concen: 9.360 ppbv
RT: 8.01 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion: 57 Resp: 5519814
Ion Ratio Lower Upper
57 100
41 30.9 24.7 37.1
56 31.7 25.0 37.4





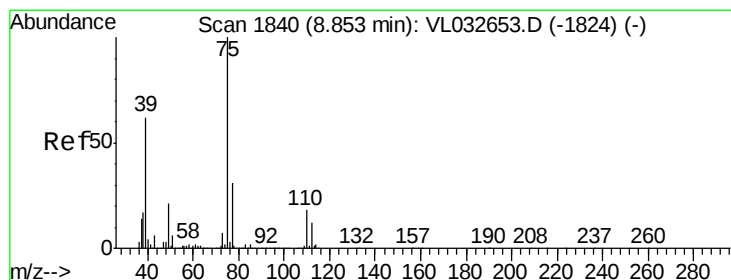
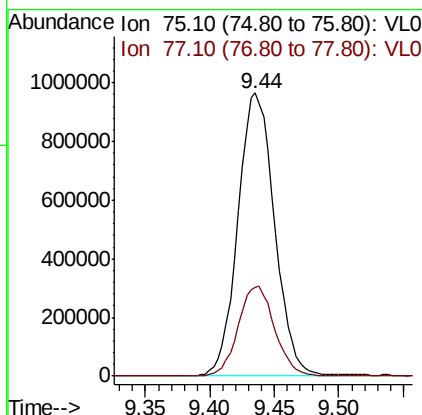
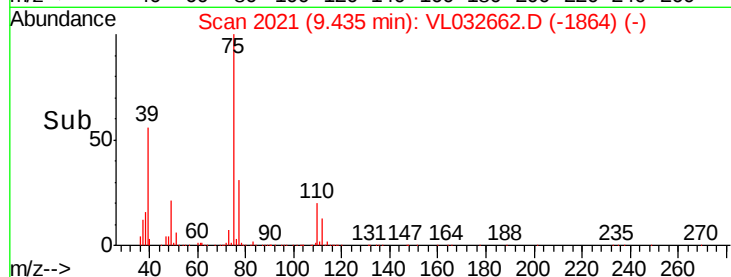
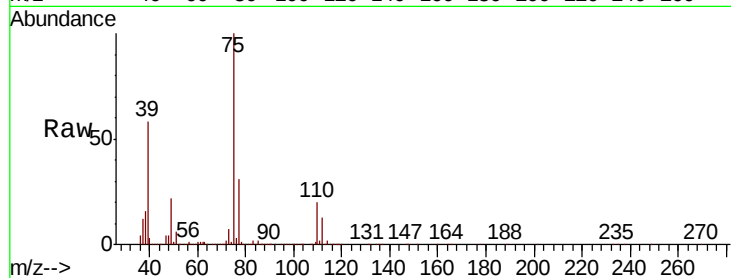
#45
t-1,3-Dichloropropene
Concen: 11.253 ppbv
RT: 9.44 min Scan# 2021
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion: 75 Resp: 1907060
Ion Ratio Lower Upper
75 100
77 31.4 25.3 37.9

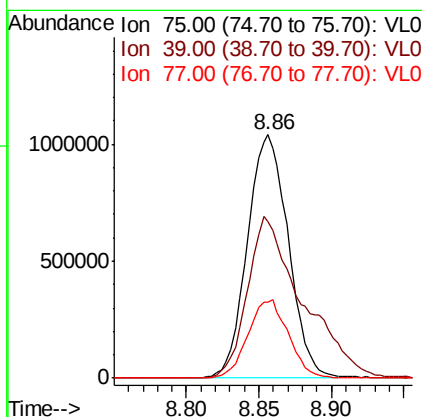
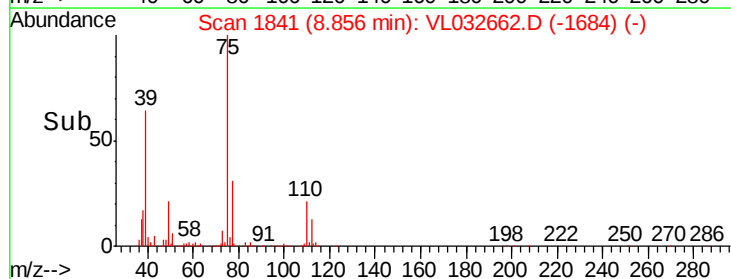
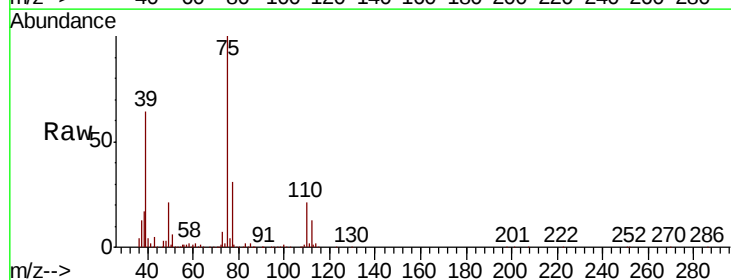
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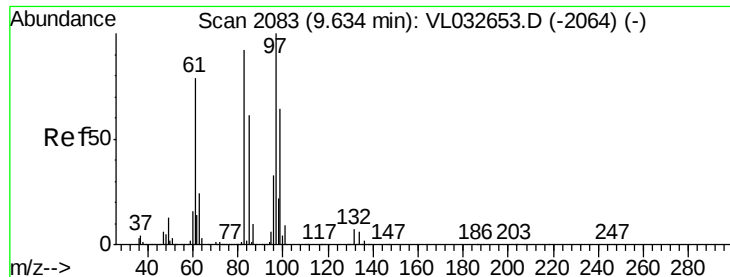
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.563 ppbv
RT: 8.86 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion: 75 Resp: 2045331
Ion Ratio Lower Upper
75 100
39 64.3 50.9 76.3
77 31.3 25.8 38.6





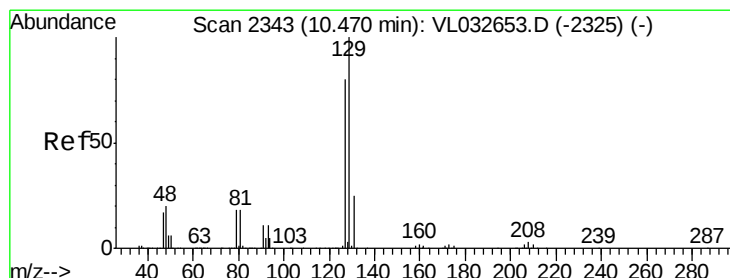
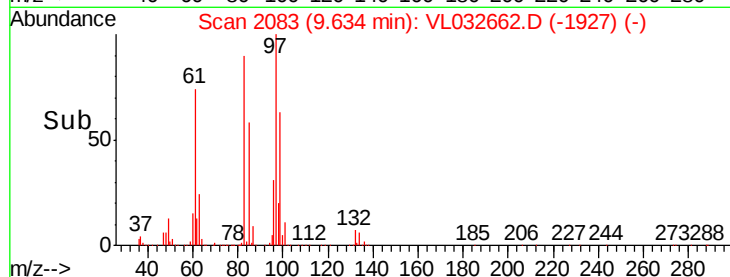
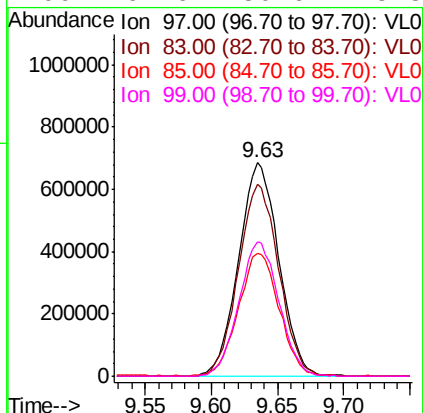
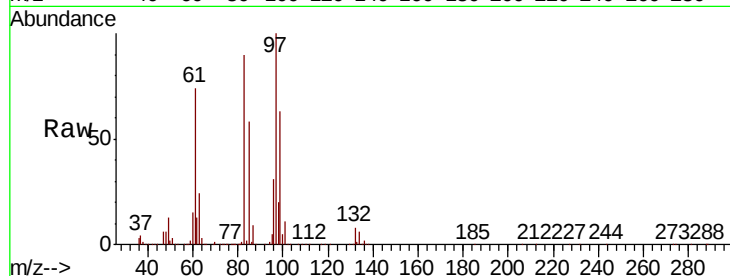
#47
 1,1,2-Trichloroethane
 Concen: 9.179 ppbv
 RT: 9.63 min Scan# 2083
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.6	73.5	110.3
85	57.4	45.8	68.6
99	62.6	50.6	75.8

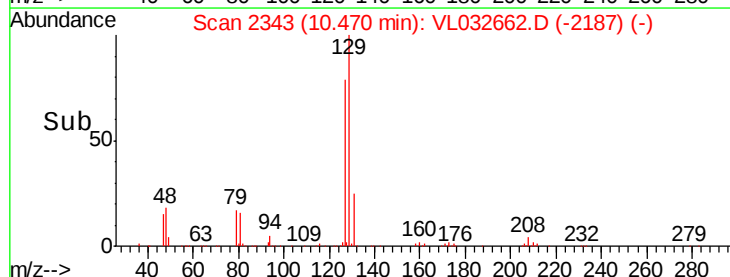
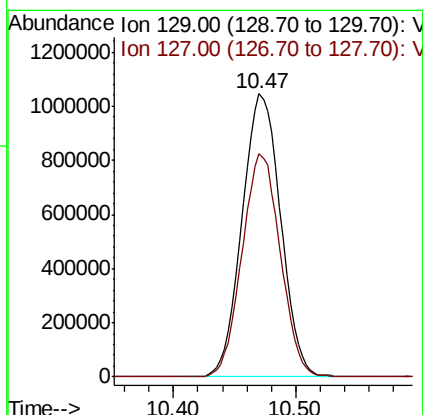
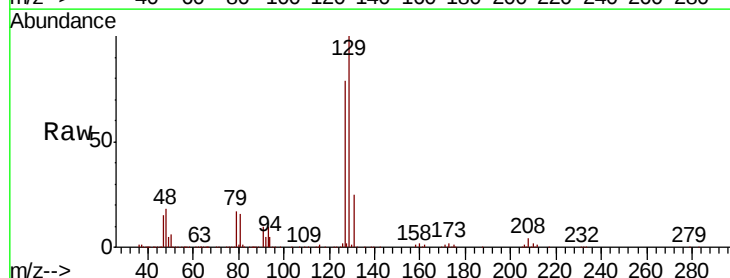
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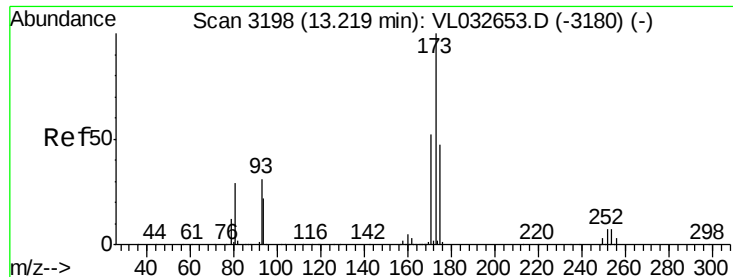
MMDadoda
 10/24/2018 12:05:01 PM



#48
 Dibromochloromethane
 Concen: 8.682 ppbv
 RT: 10.47 min Scan# 2343
 Delta R.T. 0.00 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.1	117.5





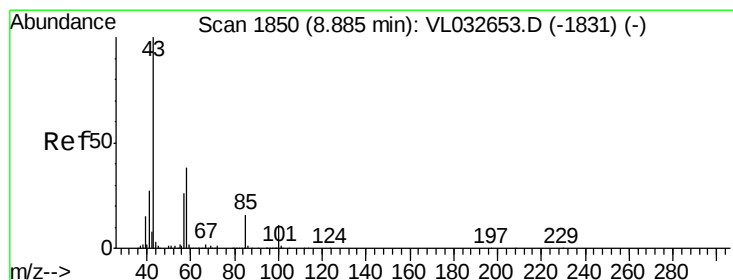
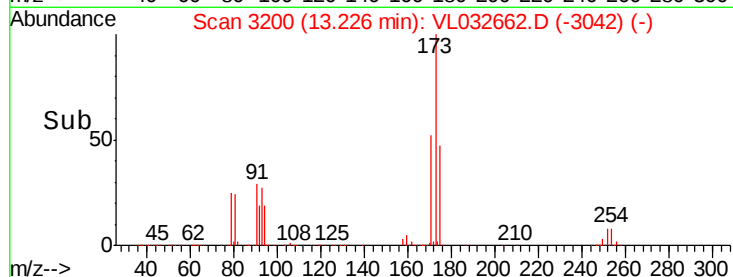
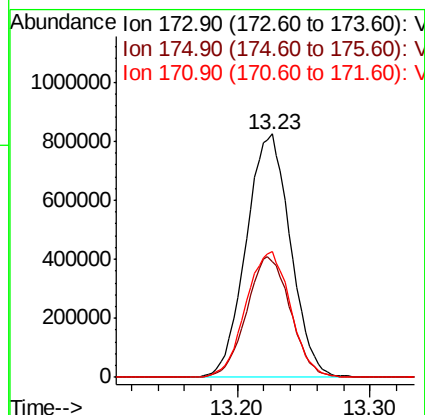
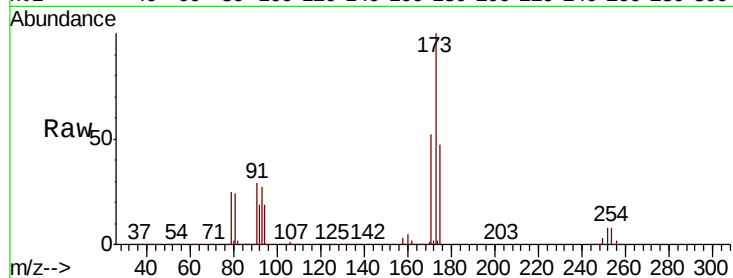
#49
Bromoform
Concen: 9.290 ppbv
RT: 13.23 min Scan# 3200
Delta R.T. 0.01 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	39.0	58.4
171	52.2	42.2	63.2

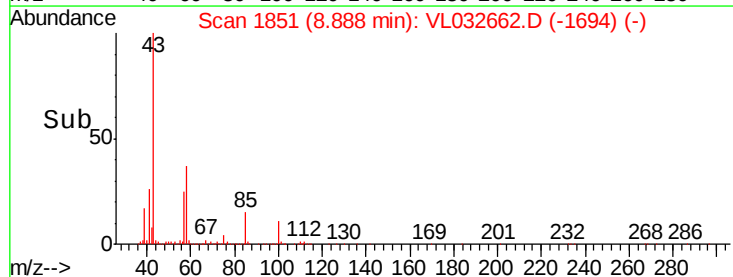
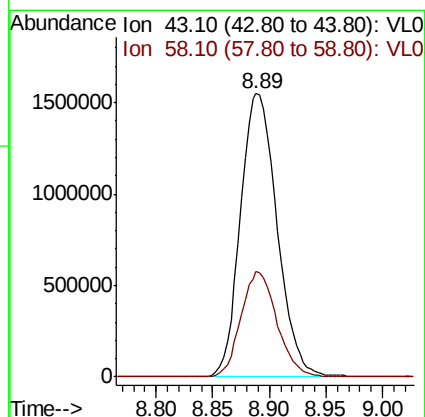
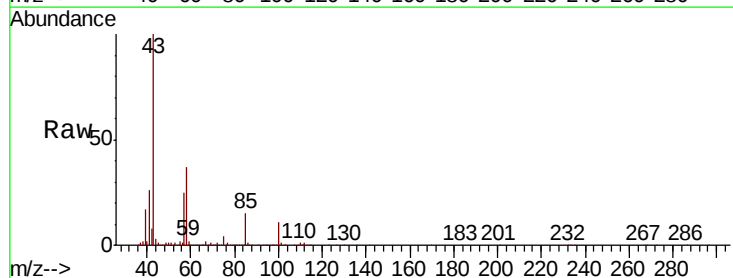
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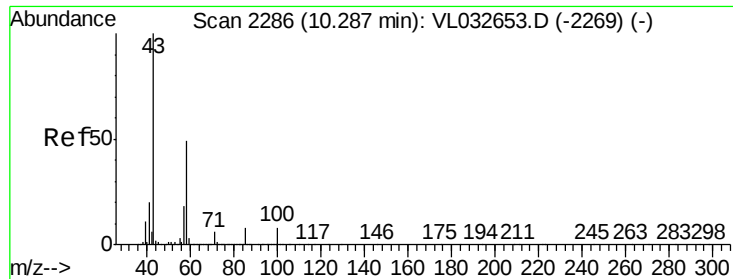
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.335 ppbv
RT: 8.89 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.7	44.5





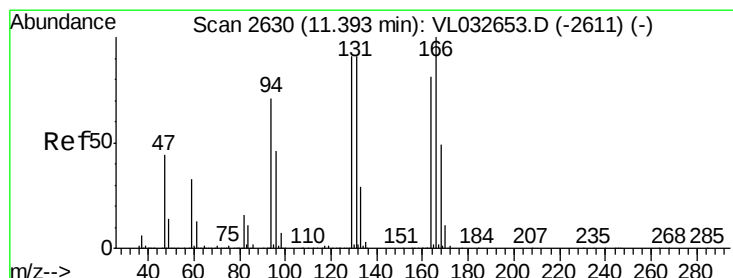
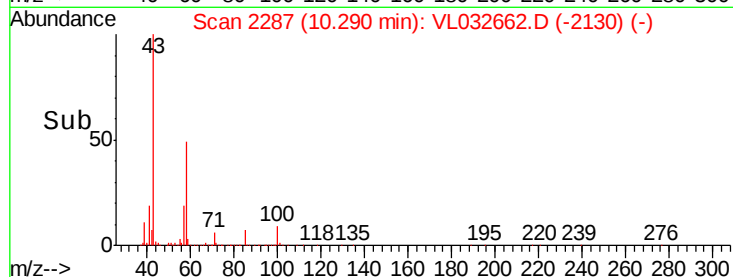
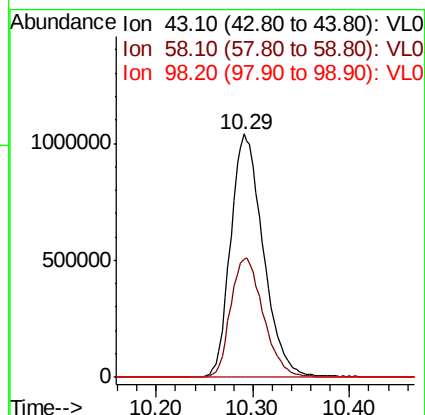
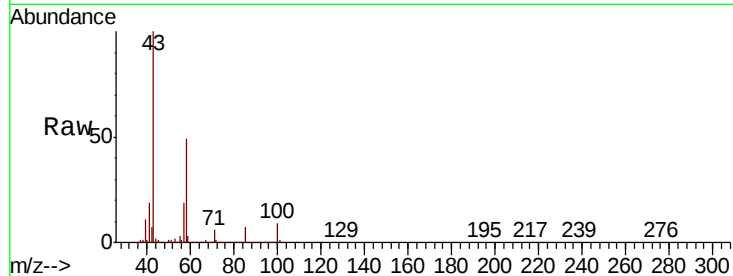
#51
2-Hexanone
Concen: 9.689 ppbv
RT: 10.29 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.5	40.4	60.6
98	0.2	0.4	0.6

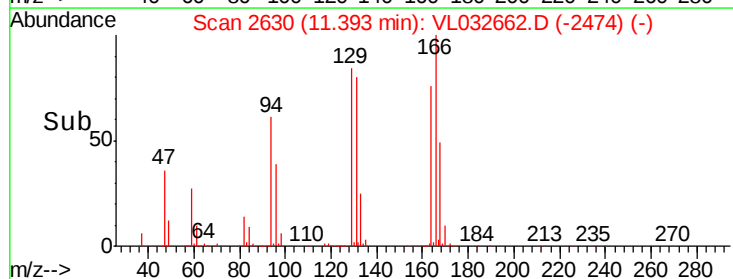
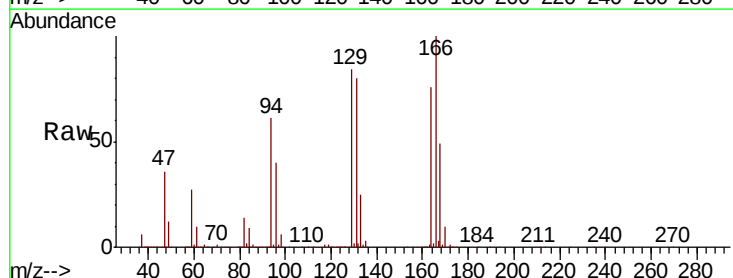
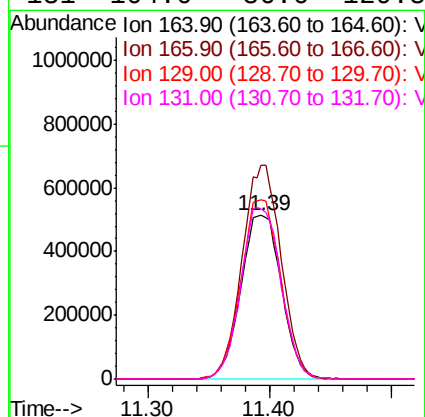
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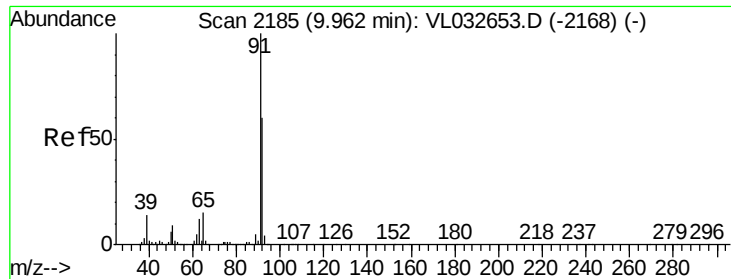
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#52
Tetrachloroethene
Concen: 9.779 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.8	100.5	150.7
129	109.8	90.0	135.0
131	104.0	86.6	129.8





#53

Toluene

Concen: 10.428 ppbv

RT: 9.97 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 91 Resp: 4129521

Ion Ratio Lower Upper

91 100

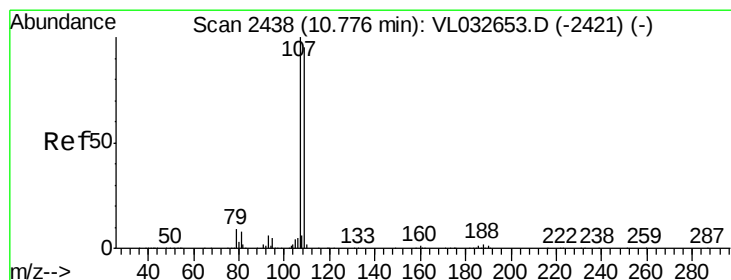
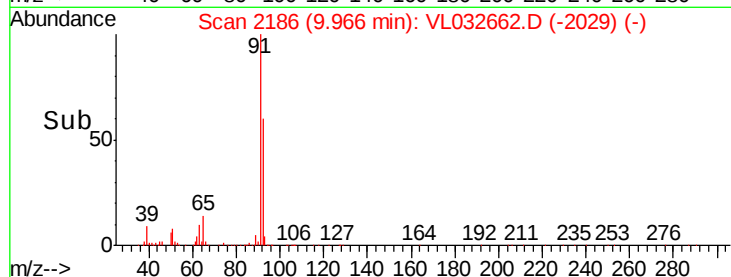
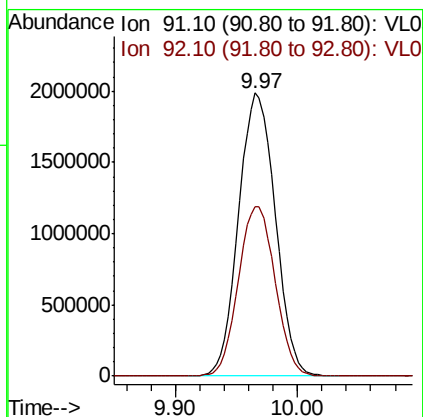
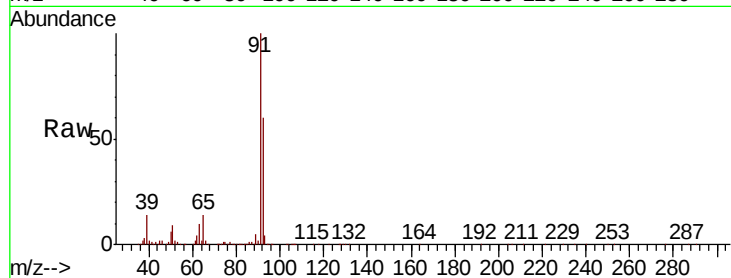
92 60.1 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 9.676 ppbv

RT: 10.78 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL032662.D

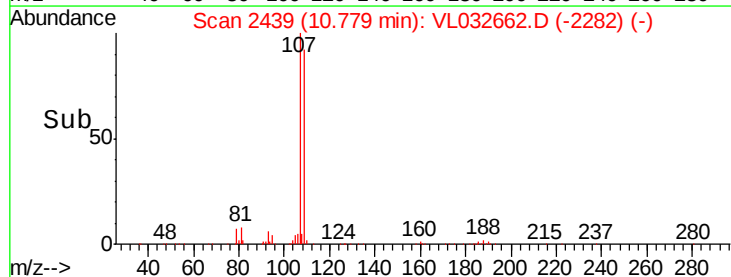
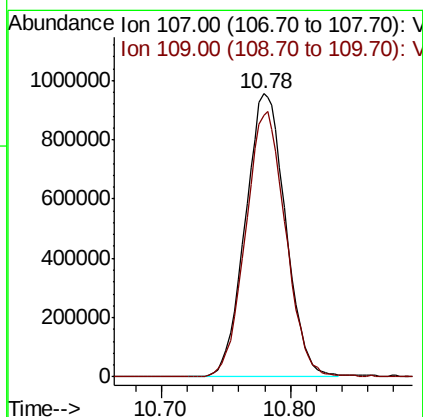
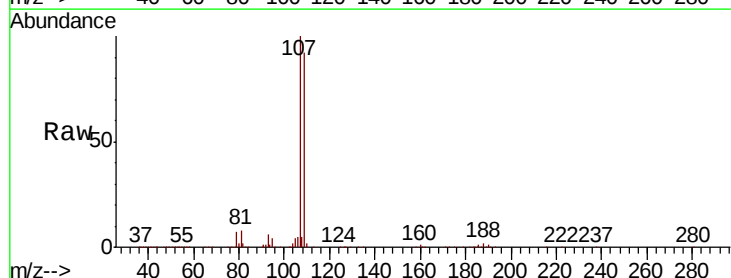
Acq: 19 Oct 2018 00:24

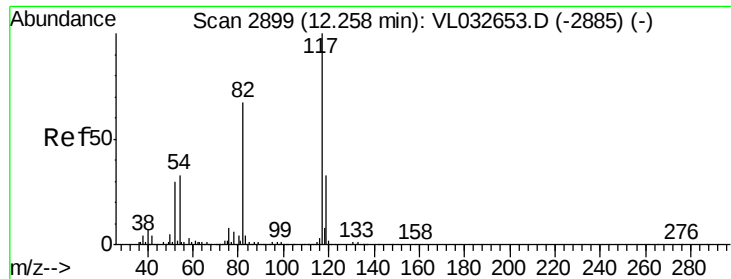
Tgt Ion: 107 Resp: 2072947

Ion Ratio Lower Upper

107 100

109 92.2 75.3 112.9





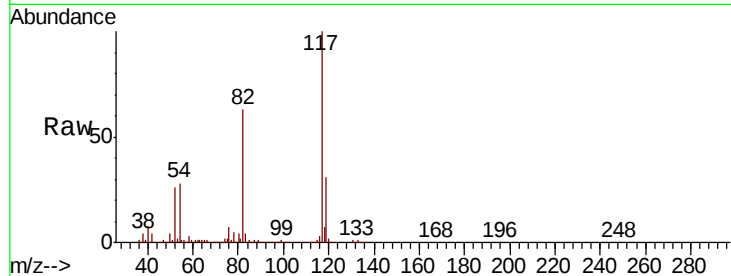
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.26 min Scan# 2899
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

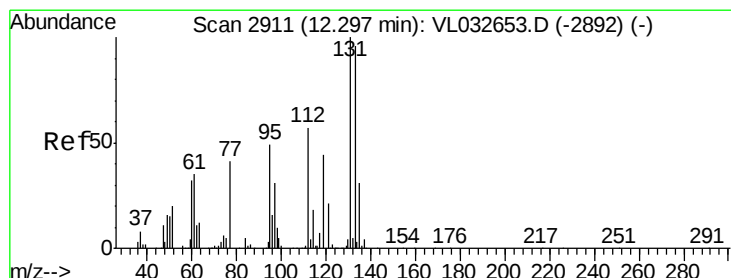
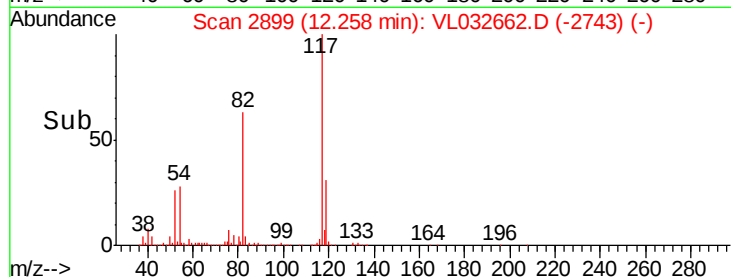
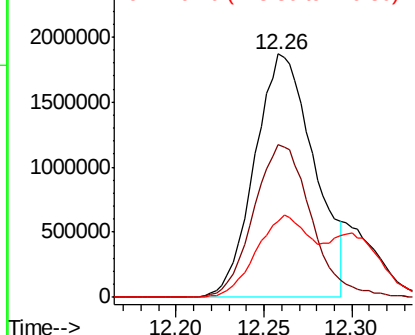
Tot Ion:117 Resp: 4390293
Ion Ratio Lower Upper
117 100
82 61.0 52.7 79.1
119 54.4 26.7 40.1#

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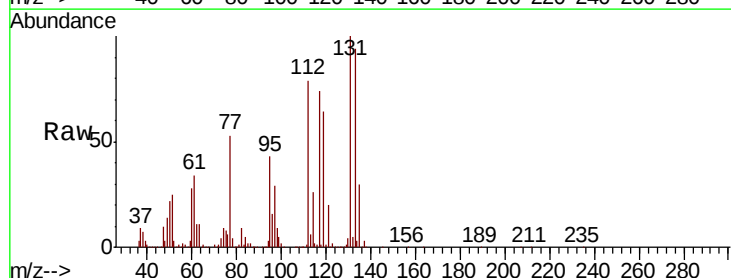


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

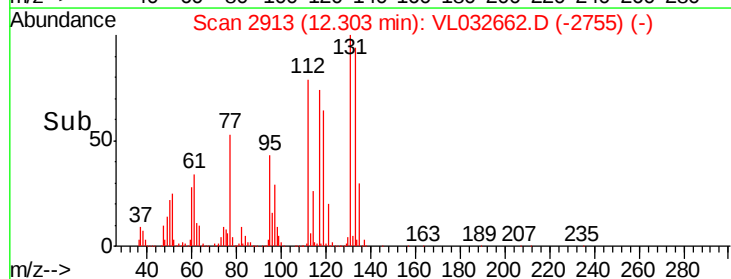
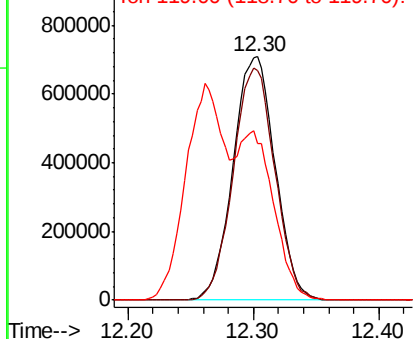


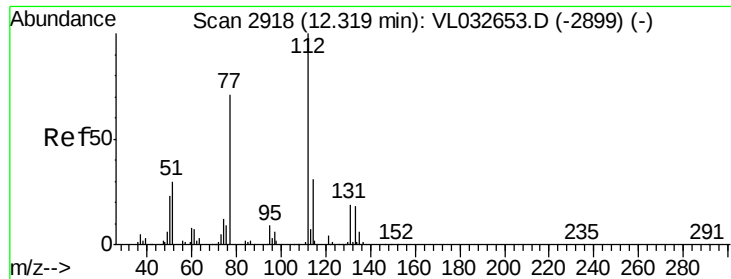
#56
1,1,1,2-Tetrachloroethane
Concen: 8.571 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.01 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion:131 Resp: 1645517
Ion Ratio Lower Upper
131 100
133 95.1 75.4 113.2
119 145.0 49.1 73.7#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





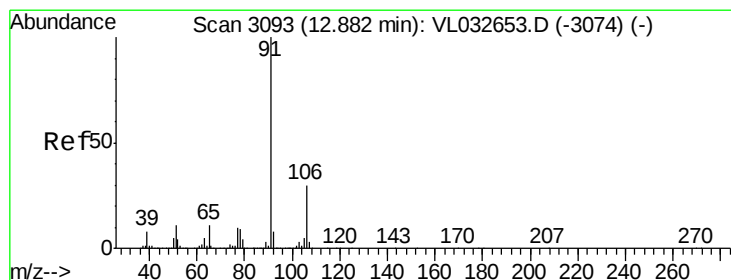
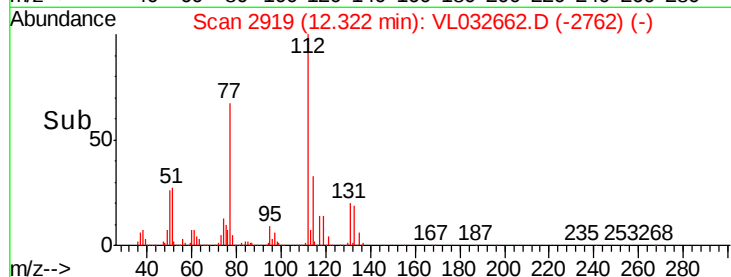
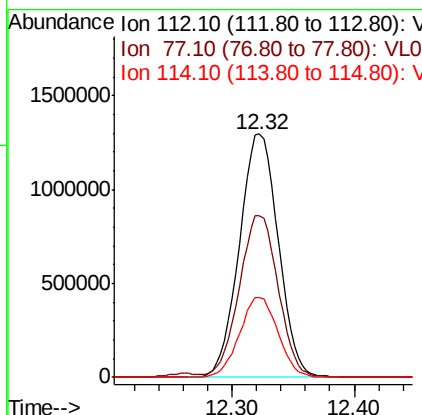
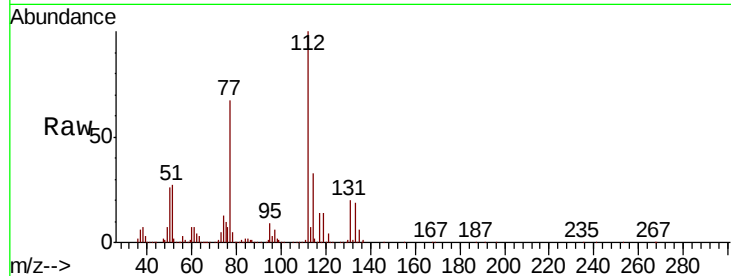
#57
Chlorobenzene
Concen: 8.831 ppbv
RT: 12.32 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	66.5	56.8	85.2
114	32.9	30.3	37.1

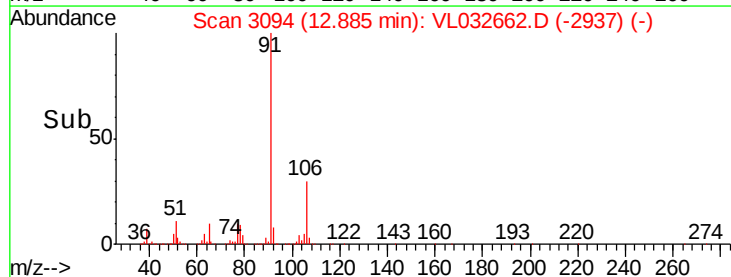
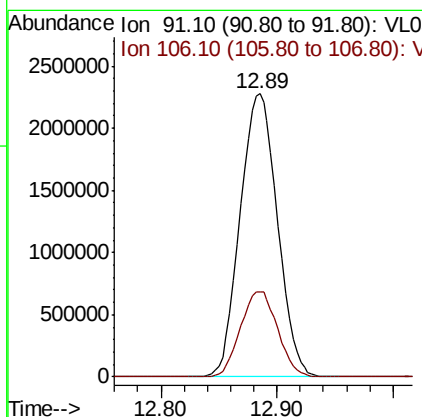
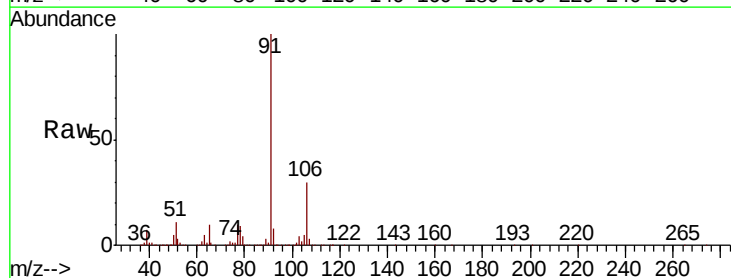
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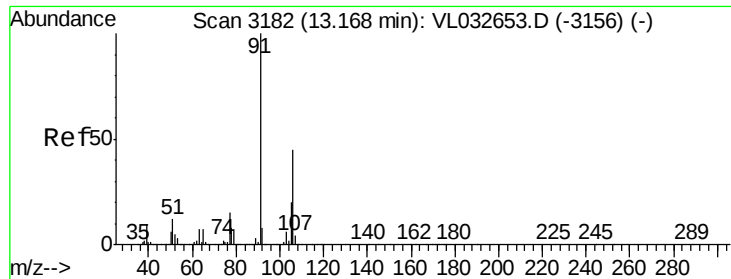
MMDadoda
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#58
Ethyl Benzene
Concen: 9.989 ppbv
RT: 12.89 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.1	24.2	36.2





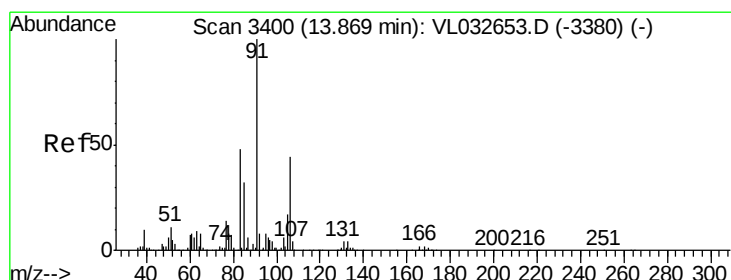
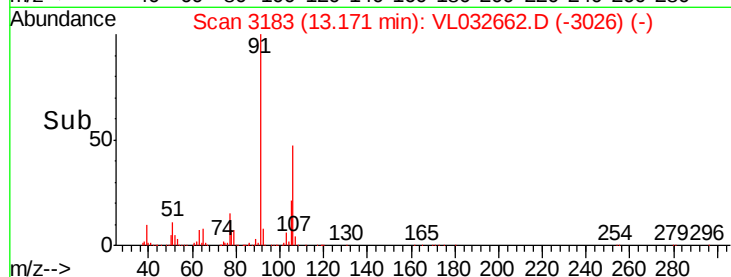
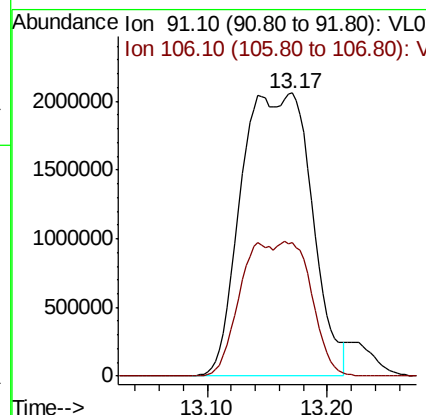
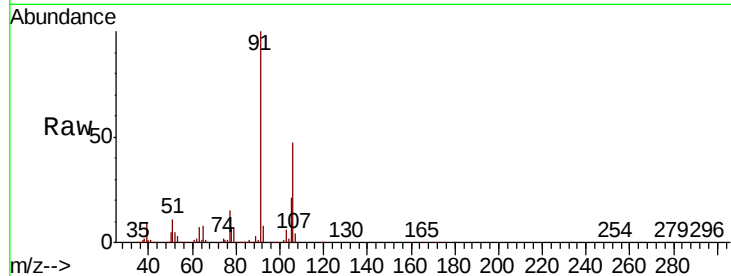
#59
m/p-Xylene
Concen: 18.509 ppbv m
RT: 13.17 min Scan# 3183
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion: 91 Resp: 8406367
Ion Ratio Lower Upper
91 100
106 46.8 35.9 53.9

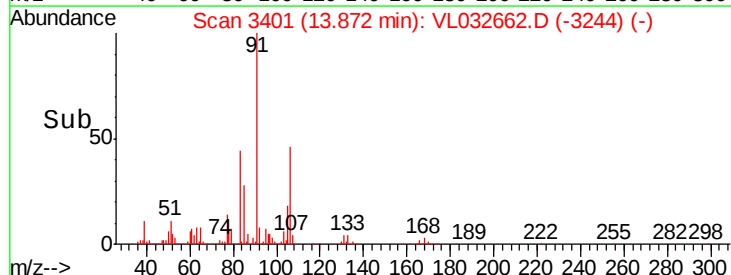
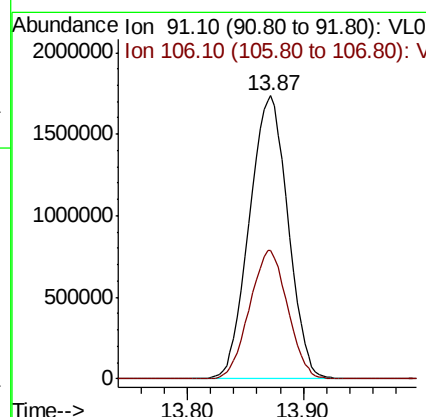
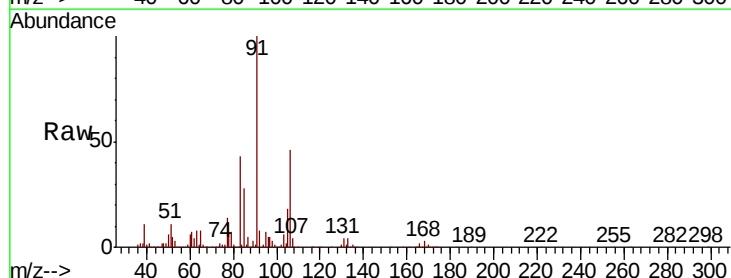
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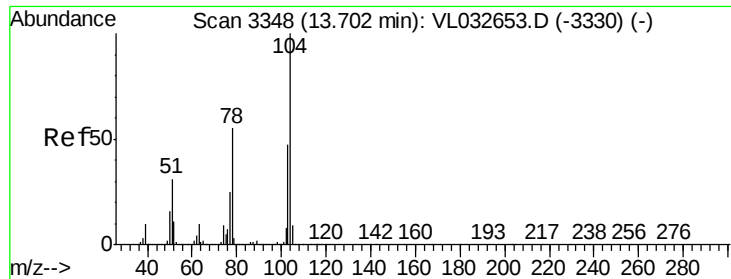
MMDadoda
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#60
o-Xylene
Concen: 9.181 ppbv
RT: 13.87 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion: 91 Resp: 4022396
Ion Ratio Lower Upper
91 100
106 44.9 22.1 66.1





#61

Stvrene

Concen: 10.648 ppbv

RT: 13.70 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion:104 Resp: 3127833

Ion Ratio Lower Upper

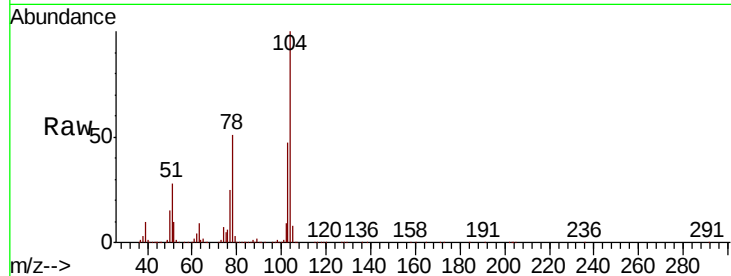
104 100

78 50.6 42.8 64.2

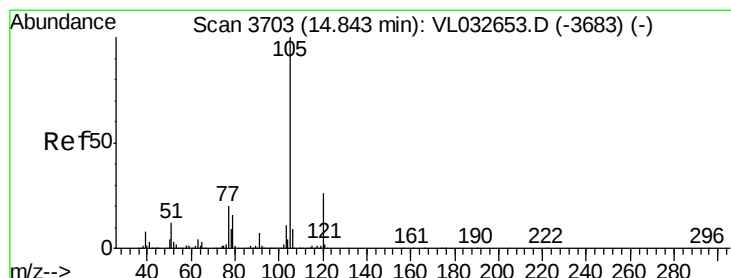
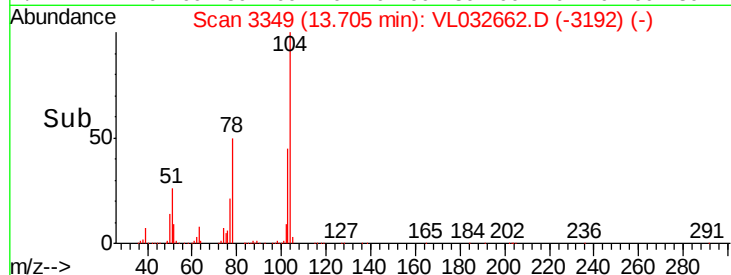
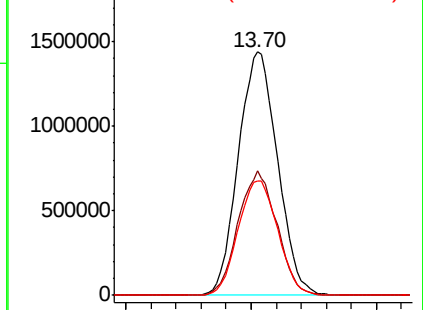
103 47.8 37.4 56.0

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



#62

Isopropylbenzene

Concen: 9.045 ppbv

RT: 14.85 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL032662.D

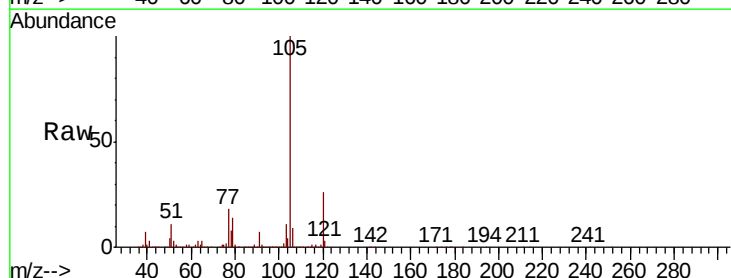
Acq: 19 Oct 2018 00:24

Tgt Ion:105 Resp: 5608325

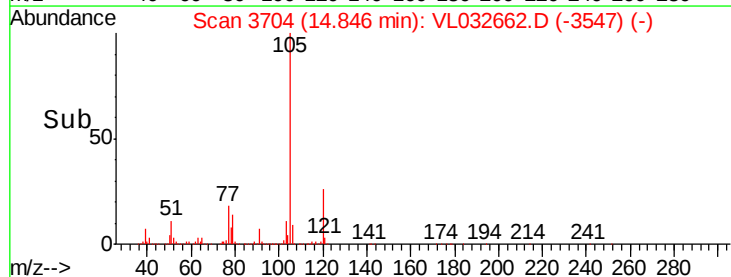
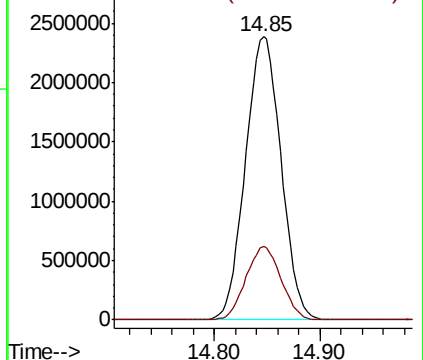
Ion Ratio Lower Upper

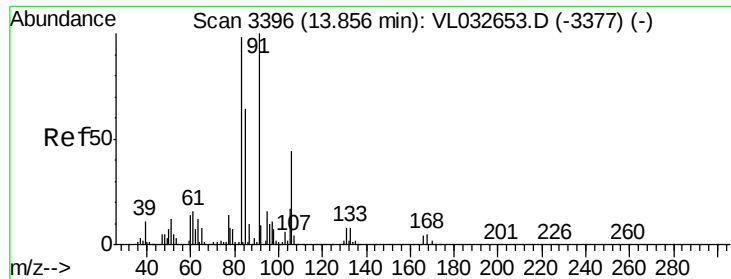
105 100

120 25.6 20.5 30.7



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





#63

1,1,2,2-Tetrachloroethane

Concen: 7.989 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 83 Resp: 2742451

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.3	12.9
85	65.4	32.3	96.9

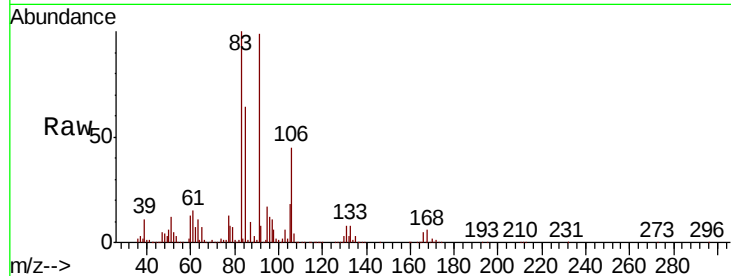
83 100

131 9.3 4.3 12.9

85 65.4 32.3 96.9

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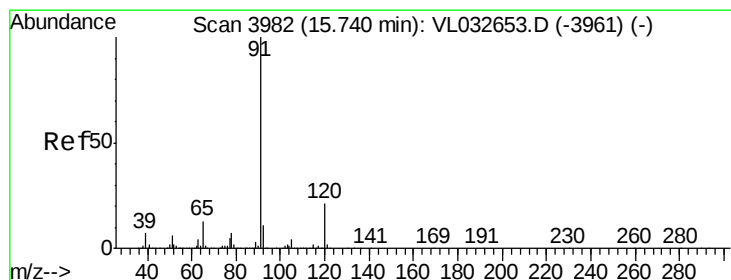
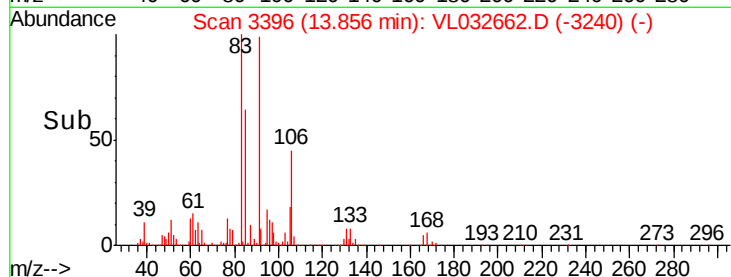
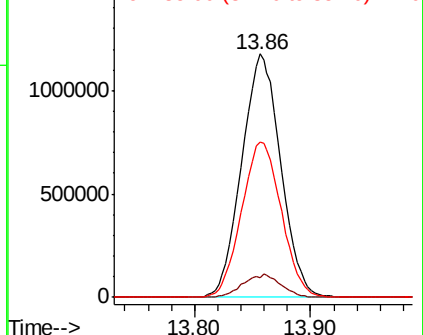
MMDadoda
10/24/2018 12:05:01 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.239 ppbv

RT: 15.74 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL032662.D

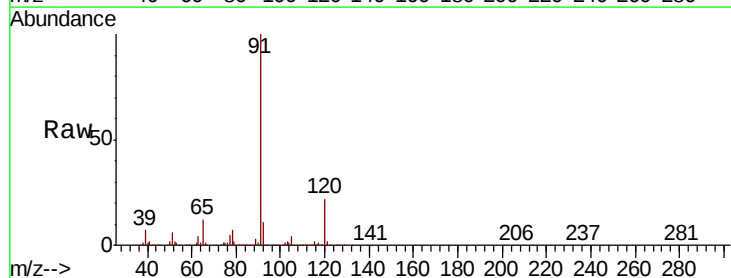
Acq: 19 Oct 2018 00:24

Tgt Ion:120 Resp: 1423721

Ion	Ratio	Lower	Upper
120	100		
91	478.3	390.2	585.2

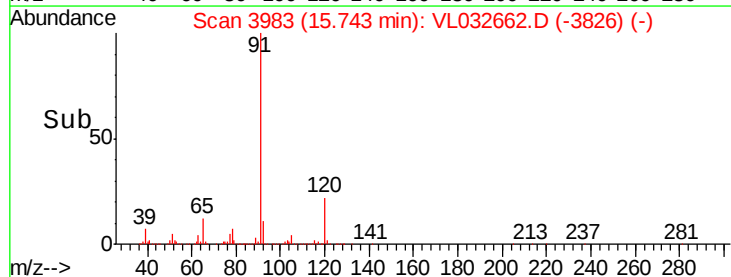
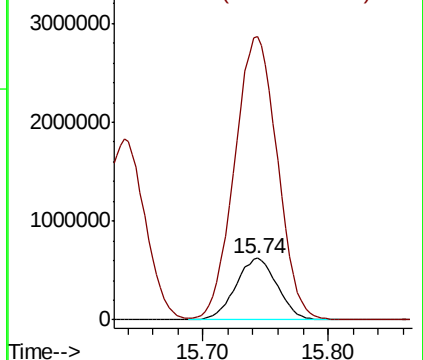
120 100

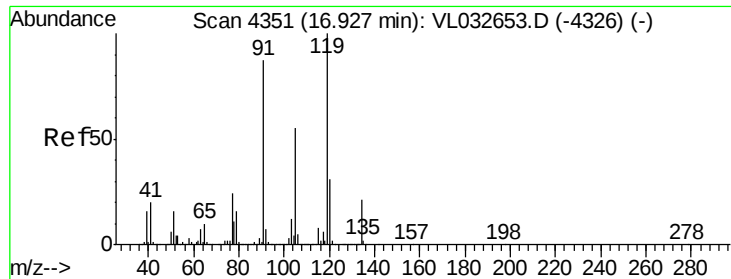
91 478.3 390.2 585.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.985 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion:119 Resp: 4744926

Ion Ratio Lower Upper

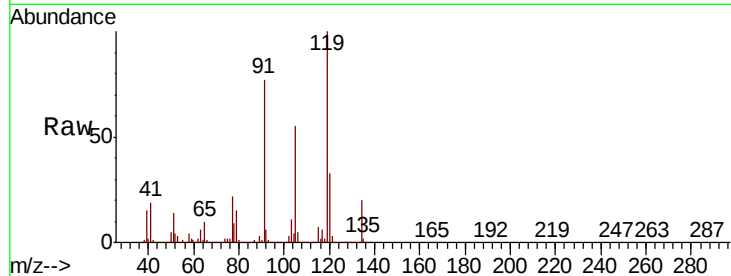
119 100

91 79.9 67.8 101.8

134 19.9 15.8 23.8

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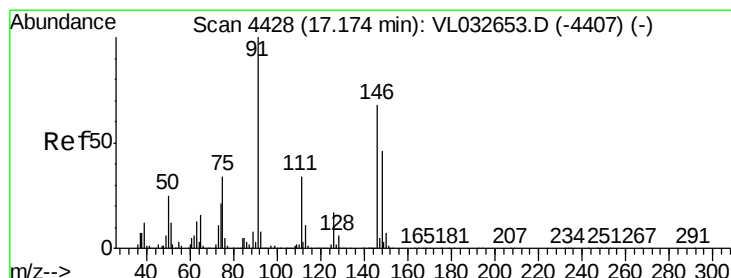
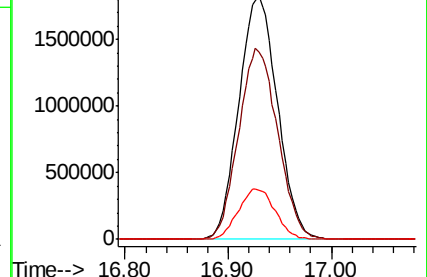
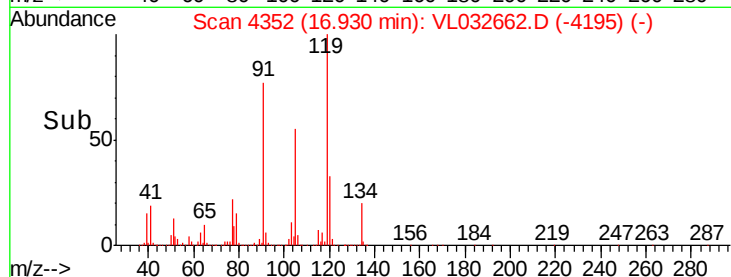
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.941 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

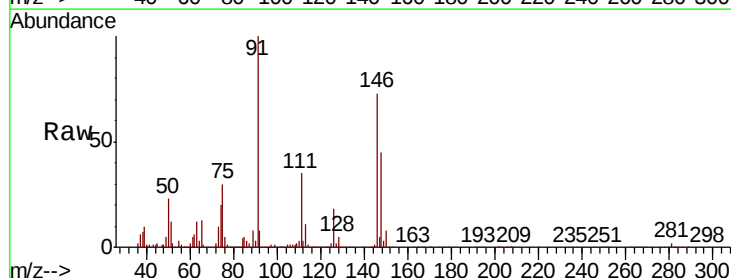
Tgt Ion: 91 Resp: 2710581

Ion Ratio Lower Upper

91 100

126 18.1 13.9 20.9

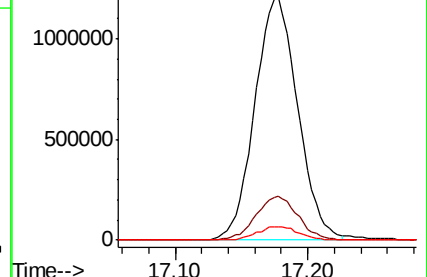
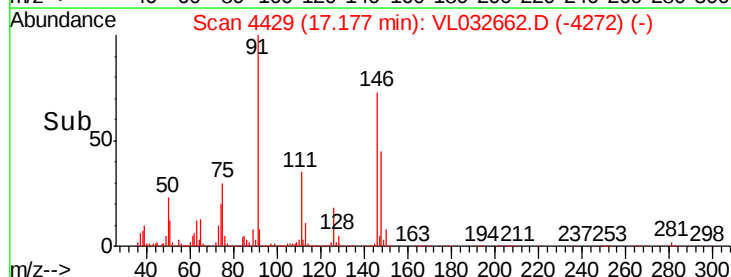
128 5.6 4.3 6.5

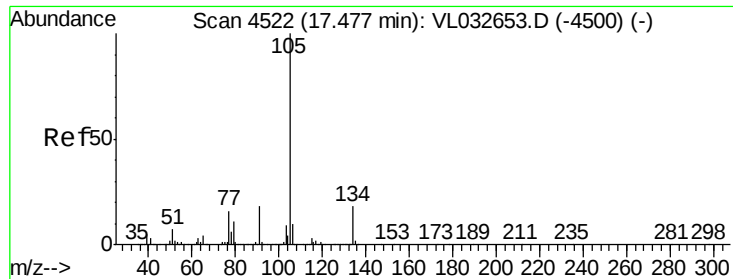


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.915 ppbv

RT: 17.48 min Scan# 4522

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 105 Resp: 6695901

Ion Ratio Lower Upper

105 100

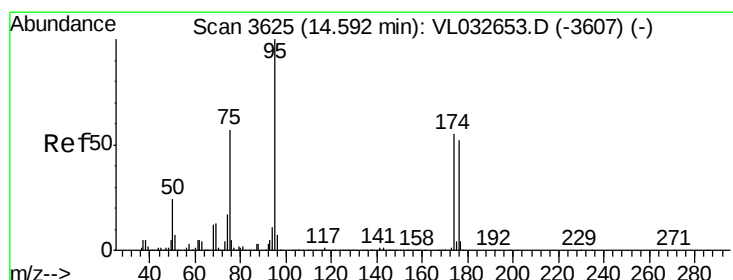
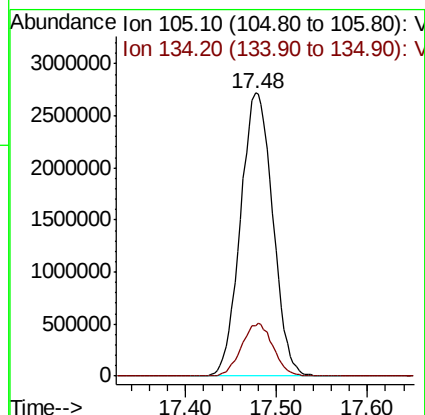
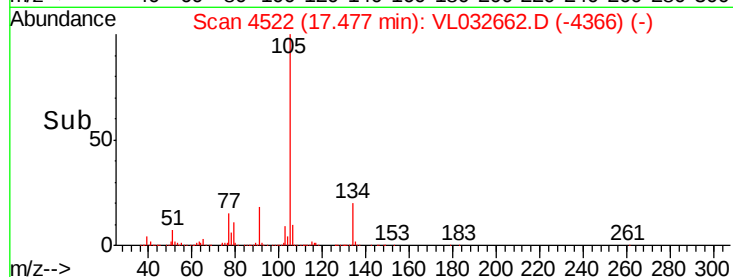
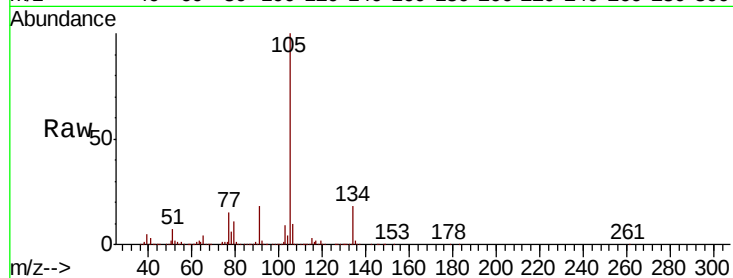
134 18.2 14.2 21.2

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.786 ppbv

RT: 14.60 min Scan# 3626

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

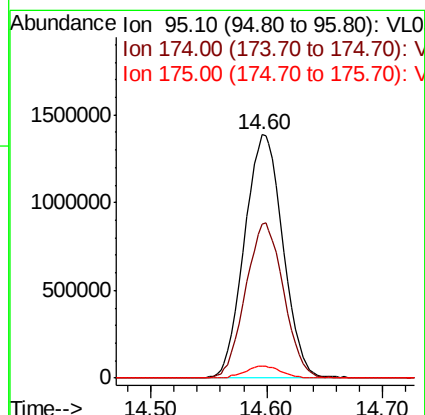
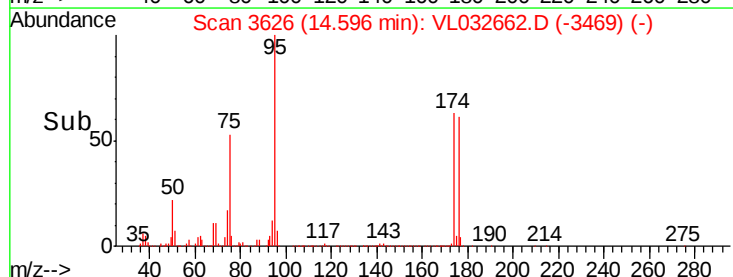
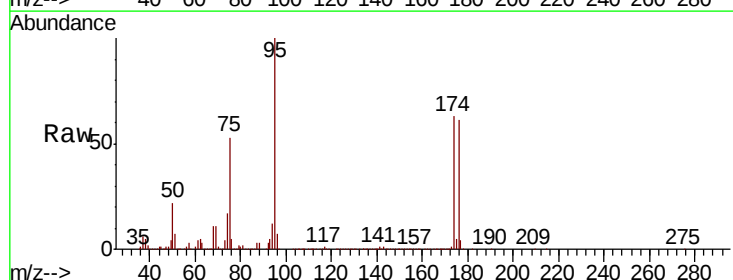
Tgt Ion: 95 Resp: 3198947

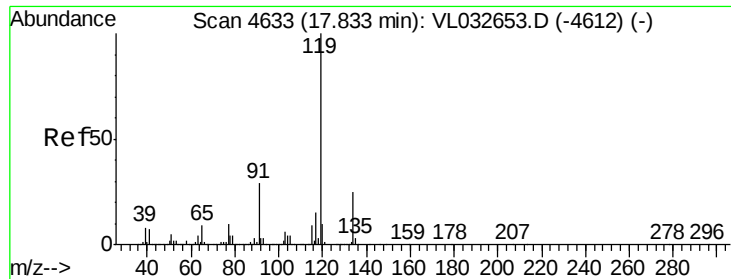
Ion Ratio Lower Upper

95 100

174 63.4 46.0 69.0

175 4.8 3.4 5.0





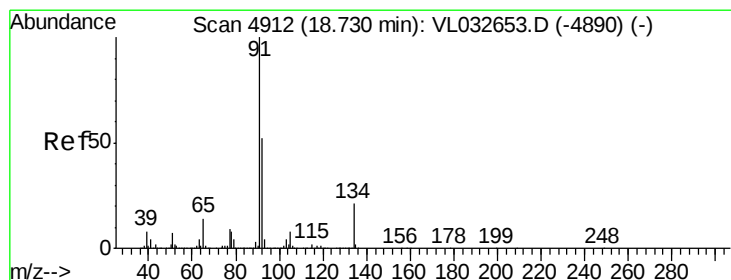
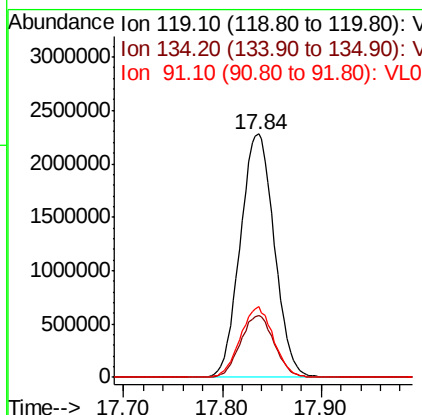
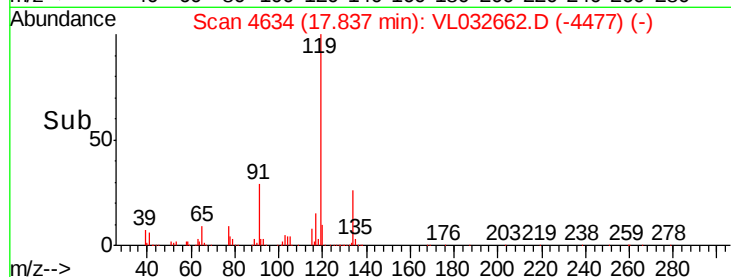
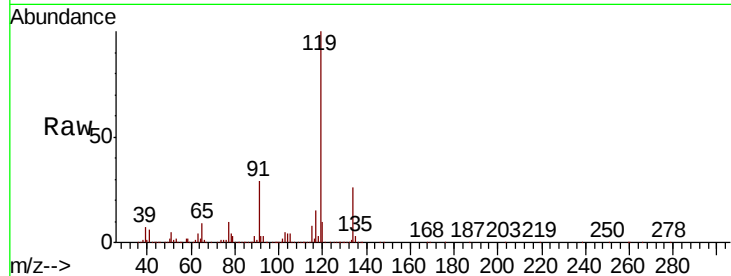
#69
p-Isopropyltoluene
Concen: 9.123 ppbv
RT: 17.84 min Scan# 4634
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.2	30.2
91	28.2	24.0	36.0

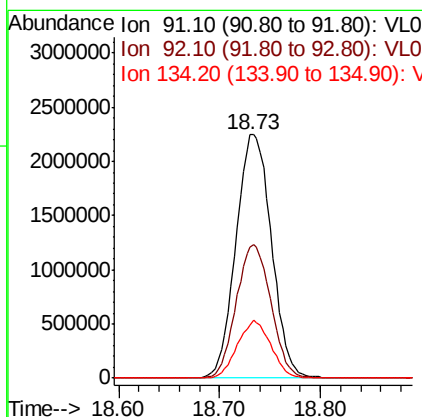
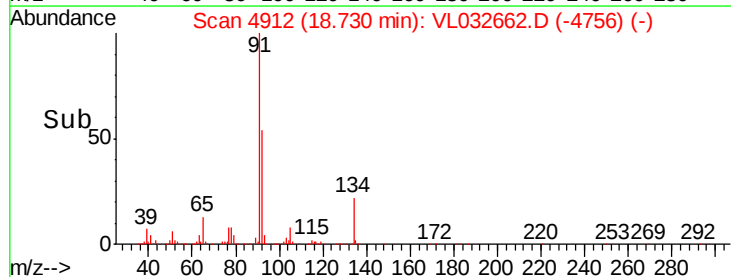
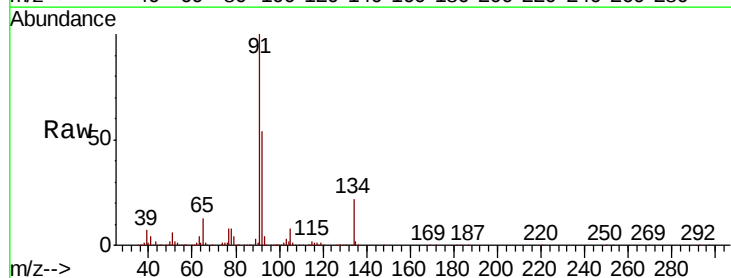
Manual Integrations
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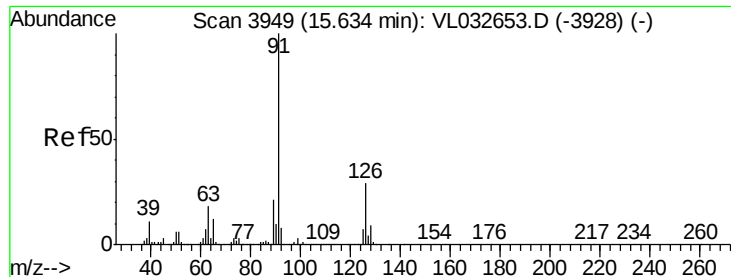
MMDadoda
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#70
n-Butylbenzene
Concen: 8.933 ppbv
RT: 18.73 min Scan# 4912
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	43.0	64.4
134	22.3	17.0	25.6





#71

2-Chlorotoluene

Concen: 9.491 ppbv

RT: 15.64 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion: 91 Resp: 4182577

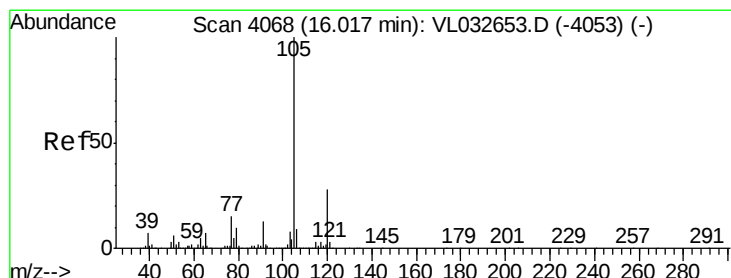
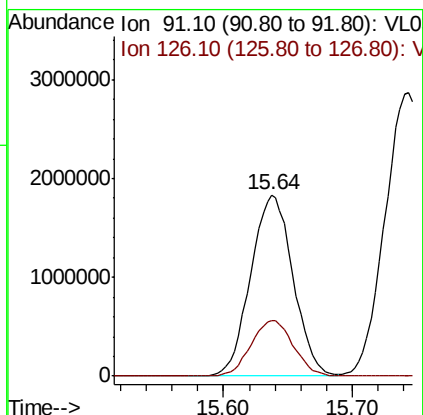
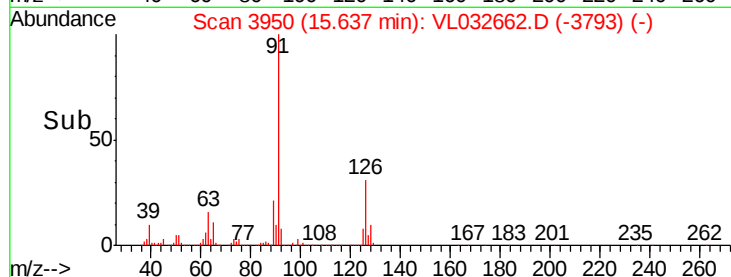
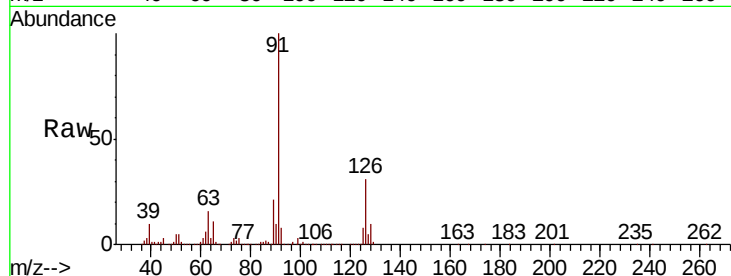
Ion Ratio Lower Upper

91 100

126 30.8 11.8 47.4

Manual Integrations
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#72

4-Ethyltoluene

Concen: 9.703 ppbv

RT: 16.02 min Scan# 4069

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Tgt Ion: 105 Resp: 4527897

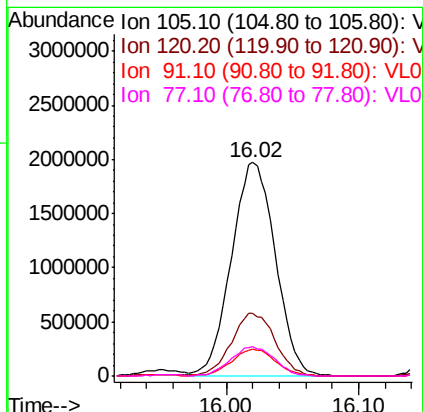
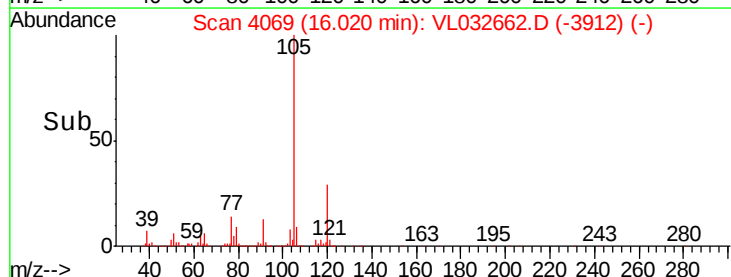
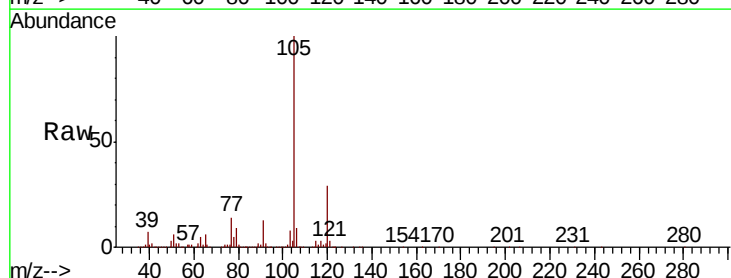
Ion Ratio Lower Upper

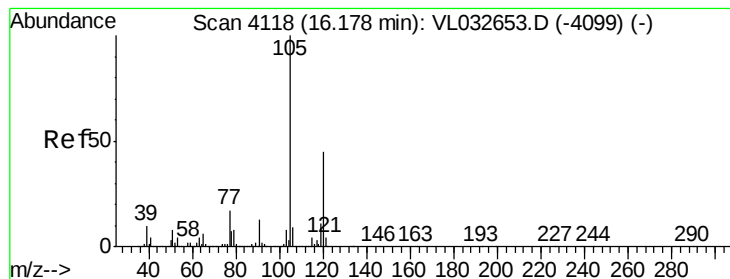
105 100

120 29.2 23.7 35.5

91 12.6 10.4 15.6

77 14.2 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.326 ppbv

RT: 16.18 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion:105 Resp: 4238680

Ion Ratio Lower Upper

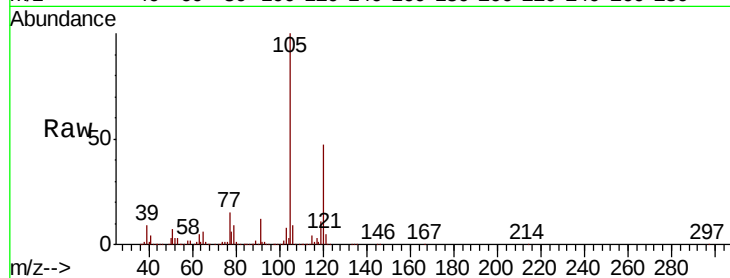
105 100

120 47.0 35.4 53.2

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

Ion 120.20 (119.90 to 120.90): V

16.18

2000000

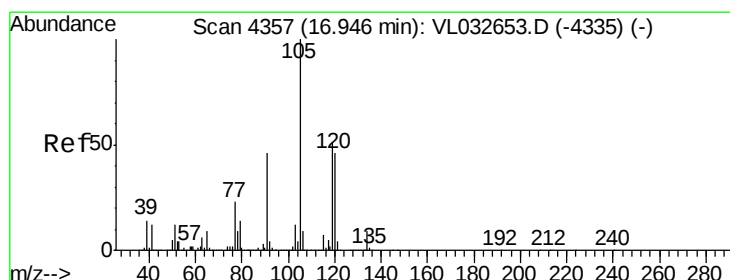
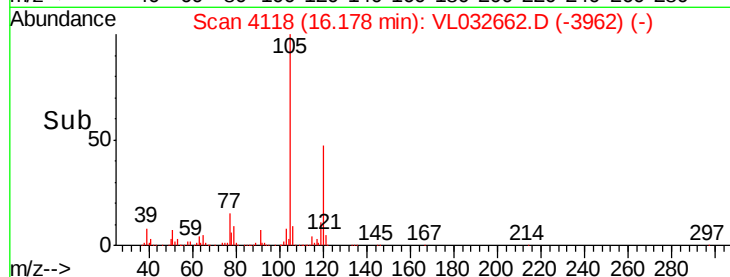
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.782 ppbv

RT: 16.95 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Tgt Ion:105 Resp: 4262461

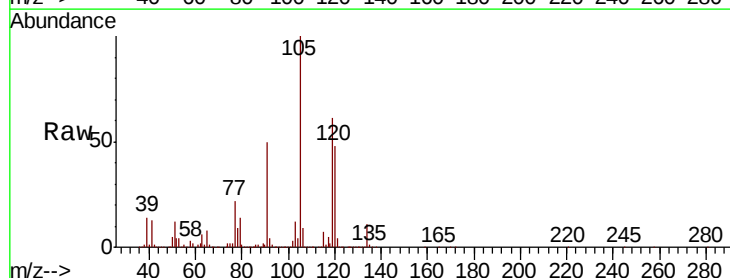
Ion Ratio Lower Upper

105 100

120 47.9 35.8 53.8

91 49.6 33.2 49.8

77 21.9 16.2 24.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

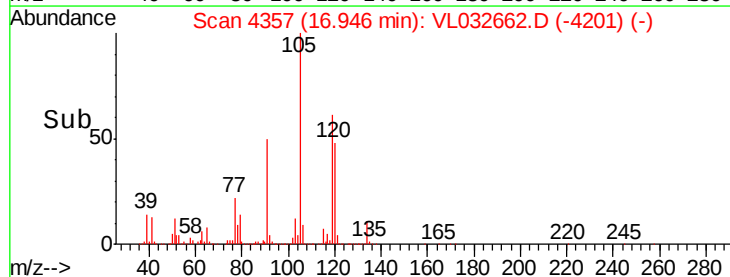
1500000

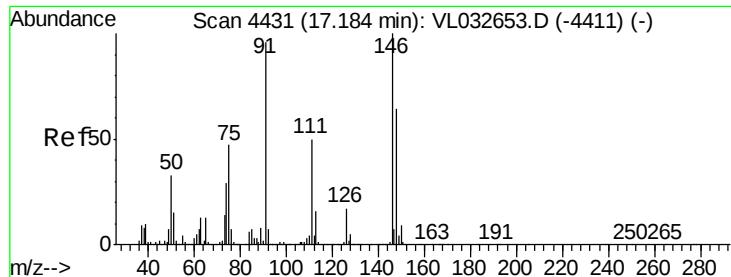
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.498 ppbv

RT: 17.19 min Scan# 4432

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion:146 Resp: 2371707

Ion Ratio Lower Upper

146 100

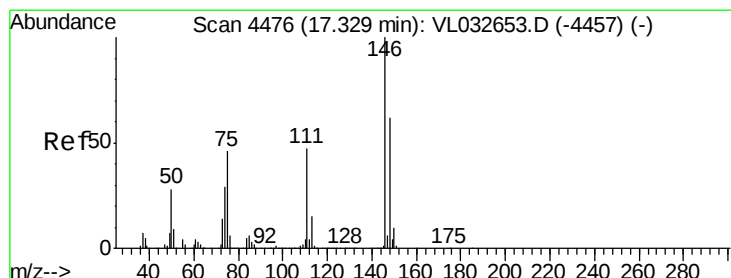
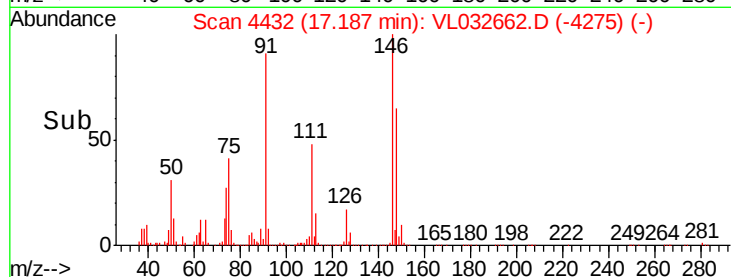
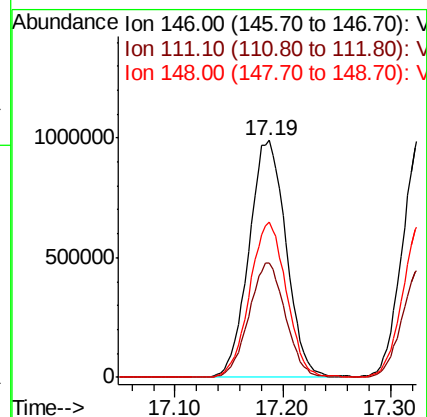
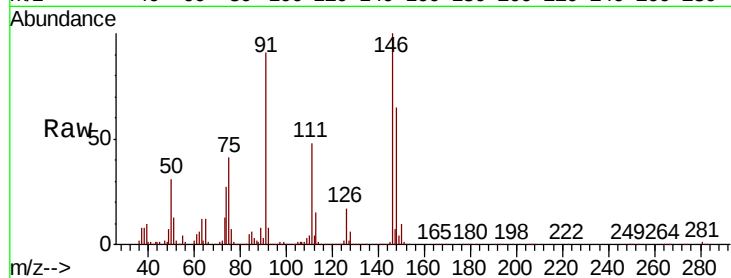
111 47.4 24.4 73.2

148 64.7 31.9 95.9

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 9.237 ppbv

RT: 17.33 min Scan# 4475

Delta R.T. -0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

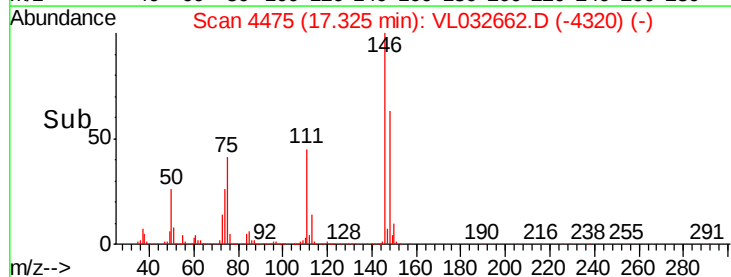
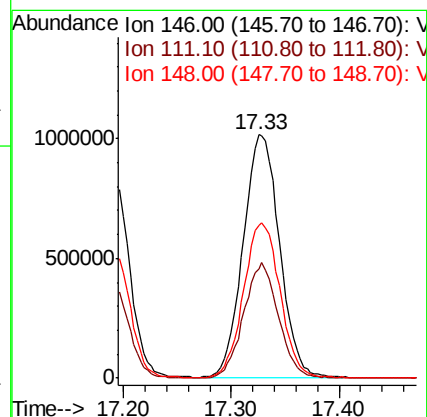
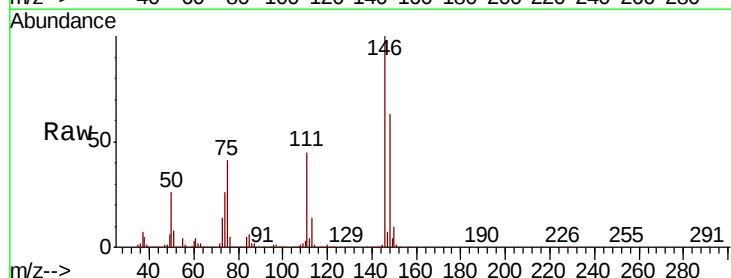
Tgt Ion:146 Resp: 2379120

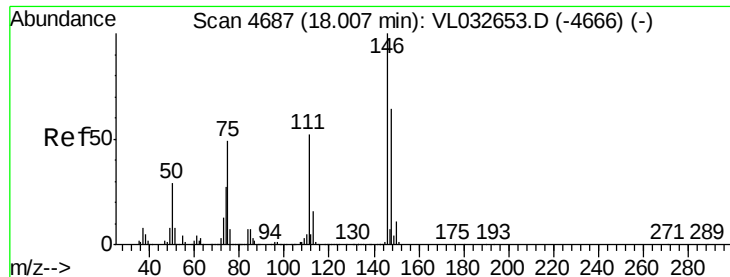
Ion Ratio Lower Upper

146 100

111 45.4 23.7 71.1

148 64.7 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 8.535 ppbv

RT: 18.01 min Scan# 4687

Delta R.T. 0.00 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

Instrument :

MSVOA_L

ClientSampleId :

VL1018ABS01

Tot Ion:146 Resp: 2256826

Ion Ratio Lower Upper

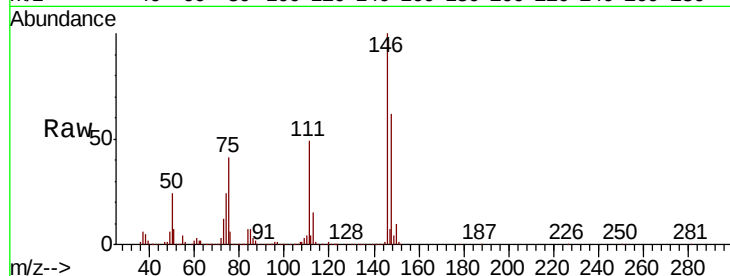
146 100

111 48.3 25.3 75.8

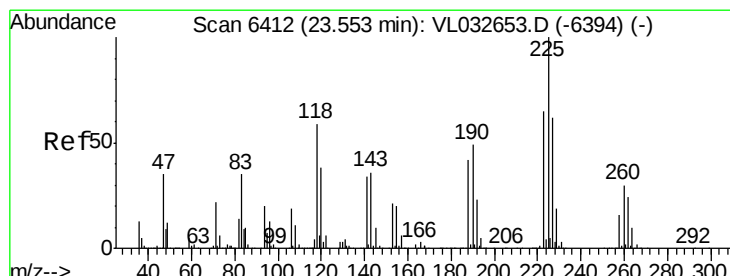
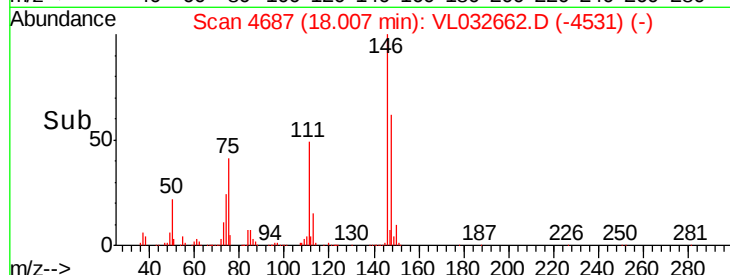
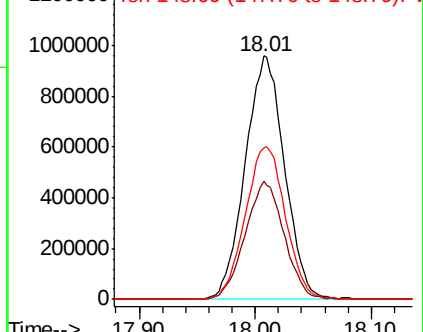
148 64.4 31.9 95.9

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



#78

Hexachloro-1,3-Butadiene

Concen: 9.611 ppbv

RT: 23.56 min Scan# 6414

Delta R.T. 0.01 min

Lab File: VL032662.D

Acq: 19 Oct 2018 00:24

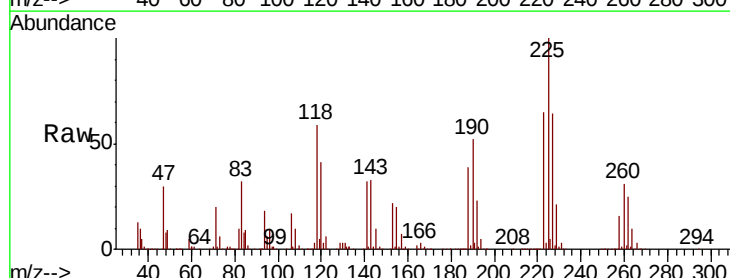
Tgt Ion:225 Resp: 1200798

Ion Ratio Lower Upper

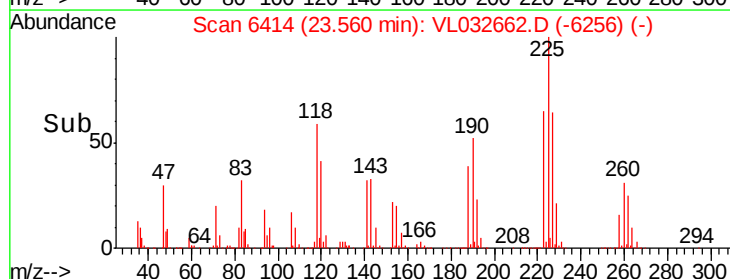
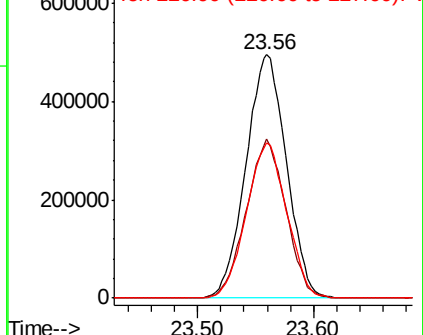
225 100

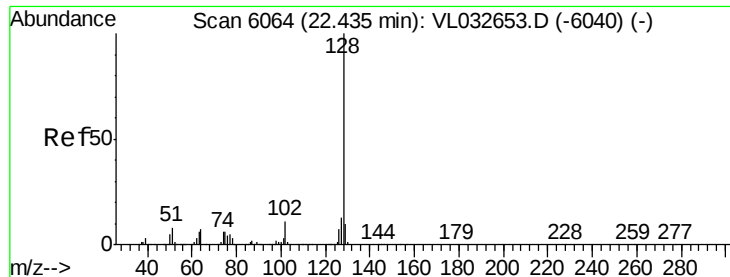
223 63.9 50.7 76.1

227 63.6 50.7 76.1



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





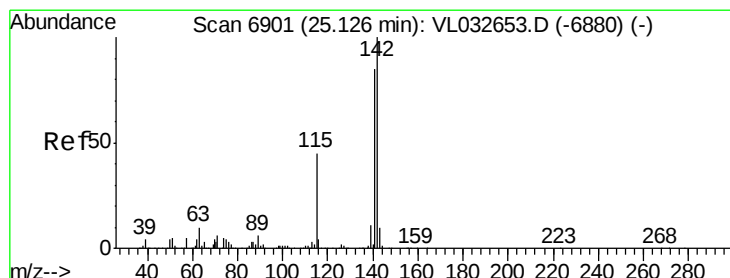
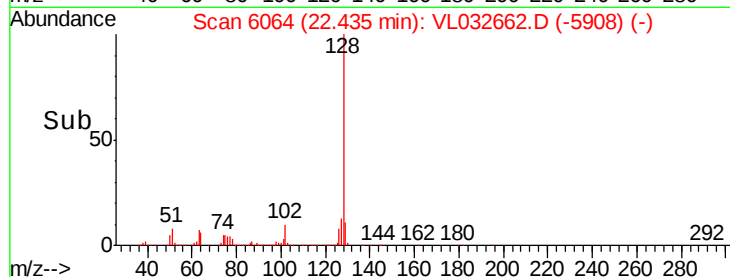
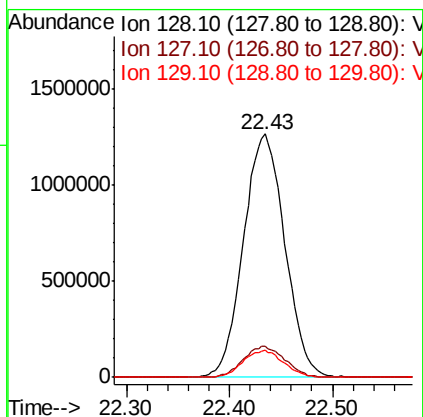
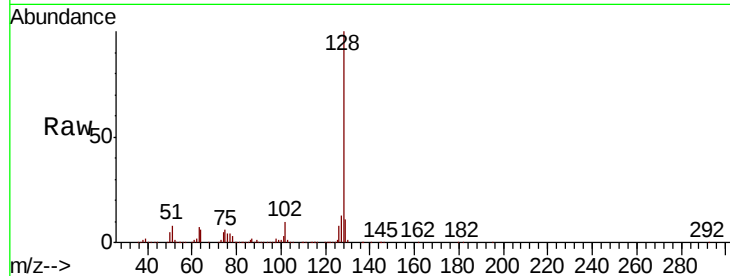
#79
Naphthalene
Concen: 11.702 ppbv
RT: 22.43 min Scan# 6064
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Instrument :
MSVOA_L
ClientSampleId :
VL1018ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.1	8.6	13.0

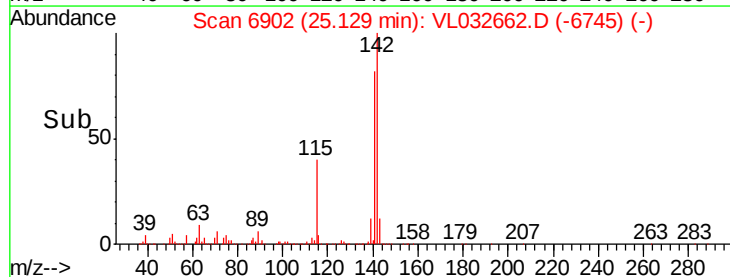
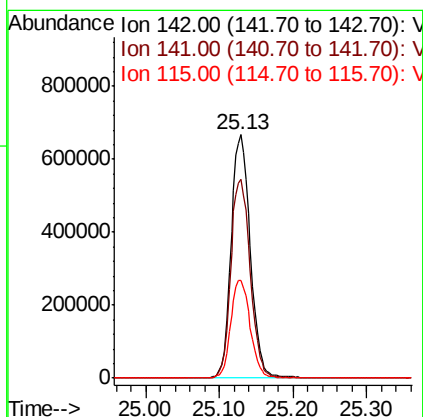
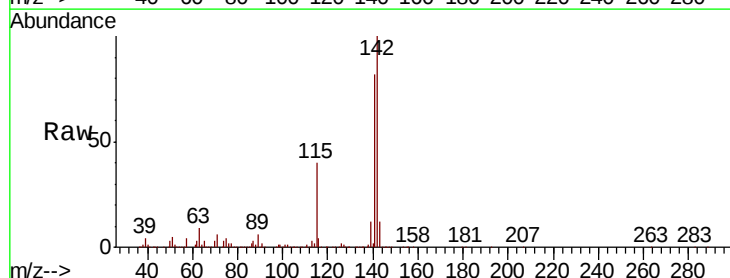
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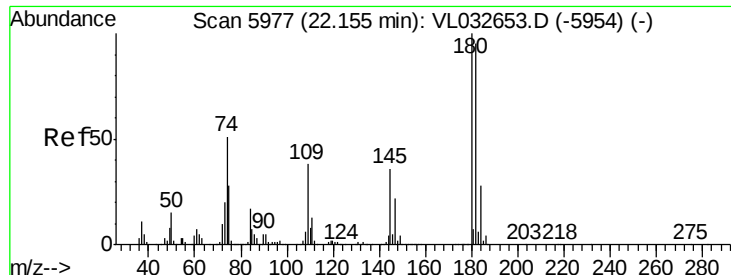
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#80
Naphthalene, 2-methyl-
Concen: 16.395 ppbv
RT: 25.13 min Scan# 6902
Delta R.T. 0.00 min
Lab File: VL032662.D
Acq: 19 Oct 2018 00:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.4	67.5	101.3
115	41.1	33.5	50.3





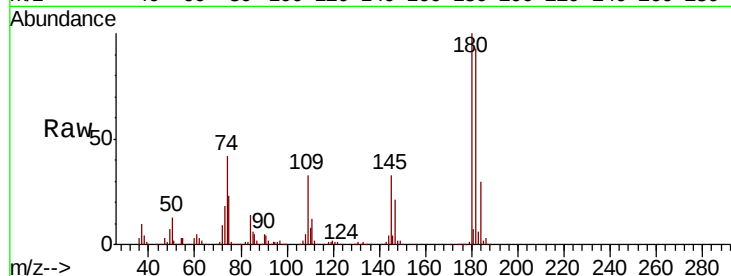
#81
 1,2,4-Trichlorobenzene
 Concen: 10.604 ppbv
 RT: 22.16 min Scan# 5979
 Delta R.T. 0.01 min
 Lab File: VL032662.D
 Acq: 19 Oct 2018 00:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1018ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.5	114.7
184	30.3	24.7	37.1

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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

