

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032178.D
 Acq On : 2 Jul 2018 12:26
 Operator : SY/AP
 Sample : VL0702ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:05 PM

Quant Time: Jul 03 05:11:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1426552	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.39	114	3841096	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.35	117	3664626	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2704645	9.66	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1312824	6.99	ppbv	97
3) Chlorodifluoromethane	3.07	51	1770546	10.16	ppbv	94
4) Chloromethane	3.23	50	941593	10.12	ppbv	99
5) Vinyl Chloride	3.35	62	915882	9.75	ppbv	99
6) Bromomethane	3.58	94	550476	10.28	ppbv	95
7) Chloroethane	3.67	64	339173	10.21	ppbv	91
8) Dichlorotetrafluoroethane	3.28	85	2018518	9.63	ppbv	91
9) Propene	3.09	41	764753	9.41	ppbv	99
10) Heptane	8.34	43	2156508	9.11	ppbv	98
11) Trichlorofluoromethane	4.07	101	2154124	10.60	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1157611	8.55	ppbv	91
13) Ethanol	3.72	45	178692	7.26	ppbv	98
14) Bromoethene	3.86	108	665143	10.33	ppbv	99
15) Acetone	3.97	43	1729064	10.37	ppbv	99
16) 1,3-Butadiene	3.42	39	856867	10.76	ppbv	90
17) tert-Butyl alcohol	4.44	59	779396	7.34	ppbv	99
18) 1,1-Dichloroethene	4.42	96	550764	8.51	ppbv	97
19) Isopropyl Alcohol	4.10	45	1256162	9.06	ppbv #	41
20) Methylene Chloride	4.48	84	535552	8.79	ppbv	94
21) Allyl Chloride	4.55	41	942398	8.27	ppbv	96
22) trans-1,2-Dichloroethene	5.04	96	615237	9.09	ppbv	95
23) Vinyl Acetate	5.23	43	2591189	8.57	ppbv	98
24) 1,1-Dichloroethane	5.17	63	1778940	9.18	ppbv	99
25) Ethyl Acetate	5.85	43	3136789	9.09	ppbv	100
26) Hexane	5.86	57	1495663	9.41	ppbv	99
27) Carbon Disulfide	4.70	76	1384147	8.76	ppbv	99
28) Methyl tert-Butyl Ether	5.20	73	2433774	8.66	ppbv	98
29) Chloroform	5.94	83	2232969	9.65	ppbv	100
30) Cyclohexane	7.34	84	1460931	9.75	ppbv	99
31) cis-1,2-Dichloroethene	5.73	61	1507794	9.49	ppbv	93
32) 1,1,1-Trichloroethane	6.71	97	2532805	10.44	ppbv	99
34) 2-Butanone	5.41	43	2089449	8.57	ppbv	99
35) Carbon Tetrachloride	7.23	117	2468378	9.39	ppbv	95
36) Benzene	7.10	78	3539015	9.52	ppbv	98
37) 1,2-Dichloroethane	6.50	62	1759005	9.50	ppbv	97
38) Trichloroethene	8.06	130	1168678	8.05	ppbv	93
39) 1,2-Dichloropropane	7.84	63	1360933	9.28	ppbv	97
40) 1,4-Dioxane	8.05	88	449686	7.82	ppbv #	1
41) Tetrahydrofuran	6.24	42	1248052	8.54	ppbv	96
42) Bromodichloromethane	8.02	83	2755652	9.49	ppbv	97
43) Methyl Methacrylate	8.23	69	1480499	9.61	ppbv	97

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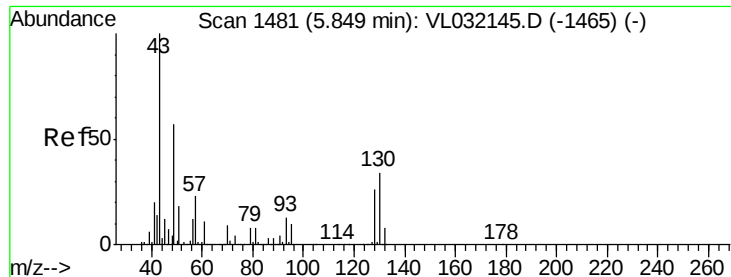
Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:05 PM

Quant Time: Jul 03 05:11:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	5768761	8.87	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	1783991	9.34	ppbv	99
46) cis-1,3-Dichloropropene	8.94	75	2107521	9.24	ppbv	99
47) 1,1,2-Trichloroethane	9.72	97	1364876	8.96	ppbv	98
48) Dibromochloromethane	10.56	129	2109435	8.94	ppbv	99
49) Bromoform	13.31	173	1724053	8.73	ppbv	99
50) 4-Methyl-2-Pentanone	8.97	43	3532681	8.85	ppbv	99
51) 2-Hexanone	10.37	43	2999267	9.06	ppbv	100
52) Tetrachloroethene	11.48	164	1039097	7.69	ppbv	95
53) Toluene	10.05	91	3898000	8.67	ppbv	100
54) 1,2-Dibromoethane	10.87	107	2014821	8.79	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	1444490	8.83	ppbv	97
57) Chlorobenzene	12.41	112	2823864	8.90	ppbv	94
58) Ethyl Benzene	12.97	91	5321654	9.01	ppbv	96
59) m/p-Xylene	13.26	91	8469061m	17.89	ppbv	
60) o-Xylene	13.96	91	4137423	8.76	ppbv	96
61) Styrene	13.79	104	3425034	8.85	ppbv	95
62) Isopropylbenzene	14.93	105	5953171	8.20	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	2965242	8.11	ppbv	100
64) n-propylbenzene	15.83	120	1512742	8.05	ppbv	84
65) tert-Butylbenzene	17.01	119	5192570	8.14	ppbv	92
66) Benzyl Chloride	17.26	91	3111833	7.90	ppbv	94
67) sec-Butylbenzene	17.56	105	7827128	8.38	ppbv	98
69) p-Isopropyltoluene	17.92	119	6371459	8.50	ppbv	96
70) n-Butylbenzene	18.82	91	7078722	9.05	ppbv	98
71) 2-Chlorotoluene	15.72	91	4702857	8.41	ppbv	95
72) 4-Ethyltoluene	16.10	105	5043147	8.27	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	4818849	8.39	ppbv	94
74) 1,2,4-Trimethylbenzene	17.03	105	4988257	8.60	ppbv	97
75) 1,3-Dichlorobenzene	17.27	146	2773897	8.41	ppbv	98
76) 1,4-Dichlorobenzene	17.41	146	2829828	8.46	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2805539	8.51	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	830980	7.24	ppbv	100
79) Naphthalene	22.53	128	4706307	8.93	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	2618456	13.77	ppbv	97
81) 1,2,4-Trichlorobenzene	22.26	180	2120826	8.91	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1481

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 49 Resp: 1426552

Ion Ratio Lower Upper

49 100

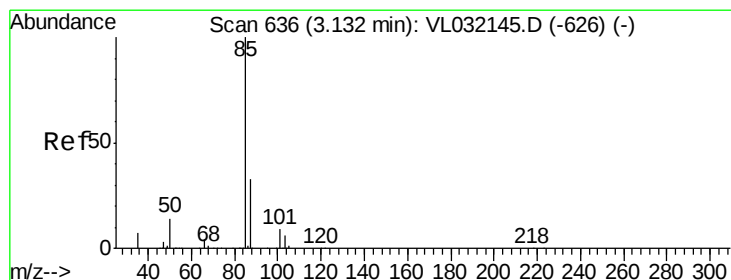
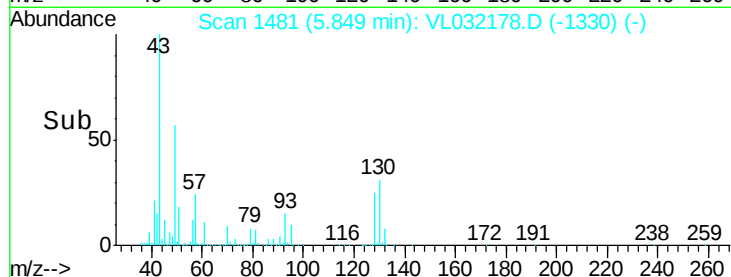
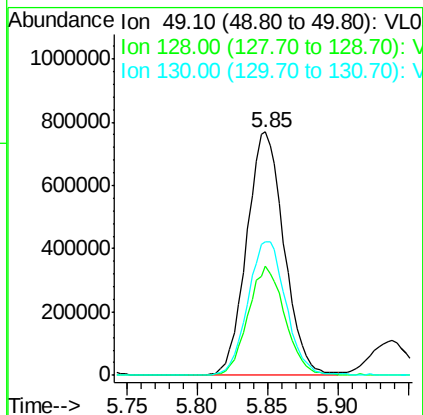
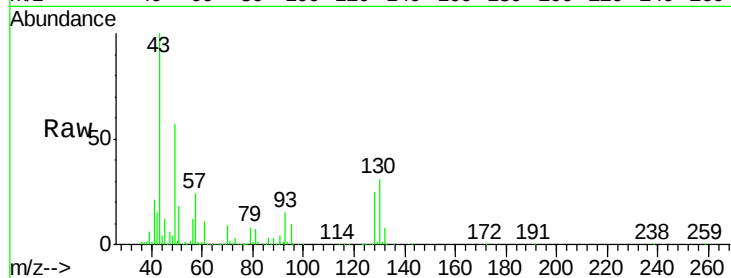
128 44.4 23.4 70.0

130 56.6 30.3 90.9

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#2

Dichlorodifluoromethane

Concen: 6.99 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032178.D

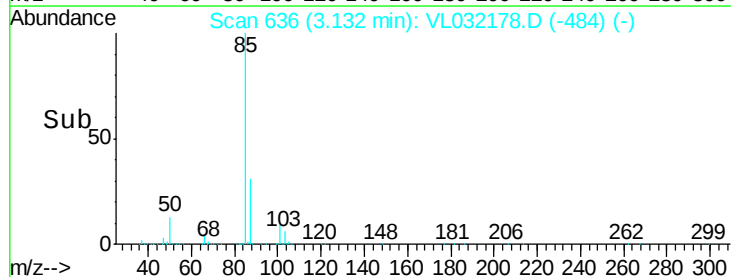
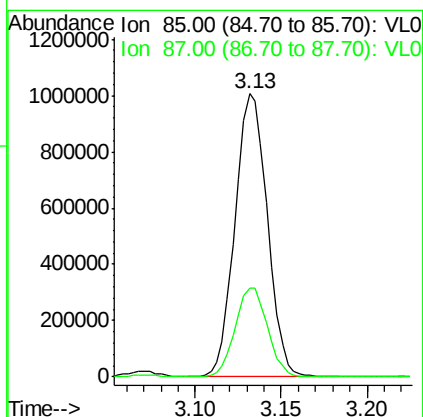
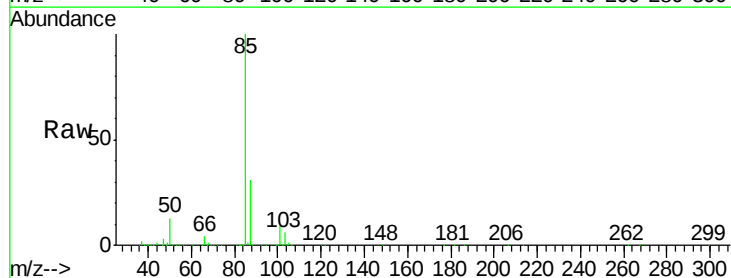
Acq: 2 Jul 2018 12:26

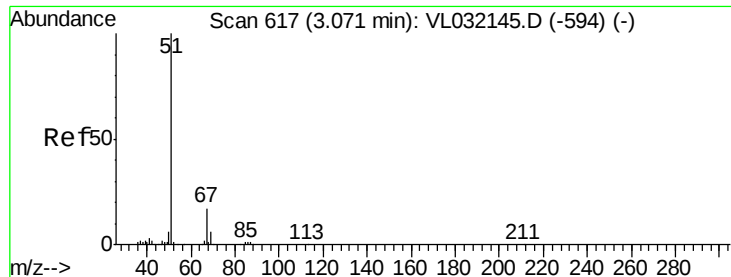
Tgt Ion: 85 Resp: 1312824

Ion Ratio Lower Upper

85 100

87 31.5 26.7 40.1





#3

Chlorodifluoromethane

Concen: 10.16 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 51 Resp: 1770546

Ion Ratio Lower Upper

51 100

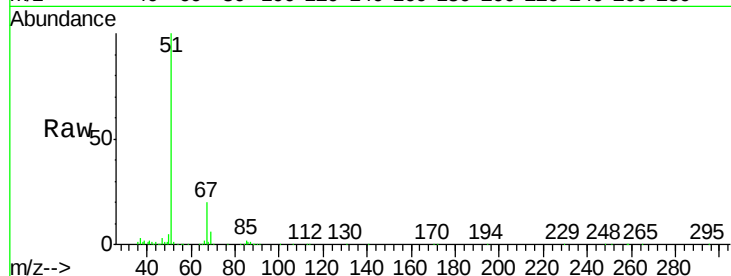
67 19.2 13.2 19.8

Manual Integrations

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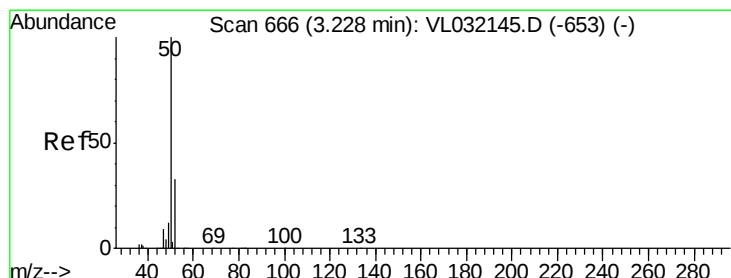
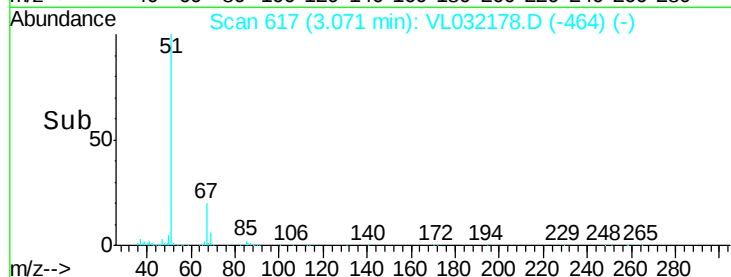
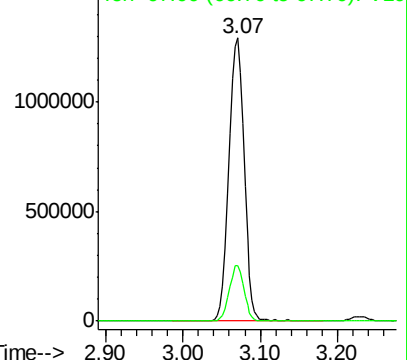
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.12 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032178.D

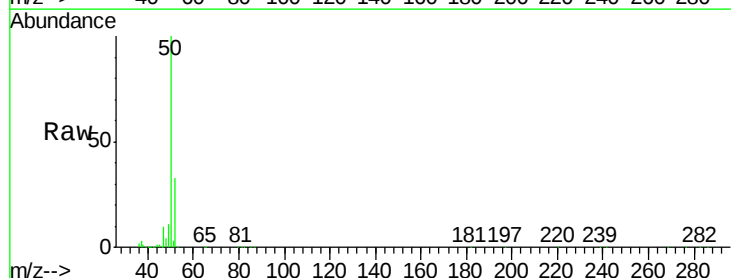
Acq: 2 Jul 2018 12:26

Tgt Ion: 50 Resp: 941593

Ion Ratio Lower Upper

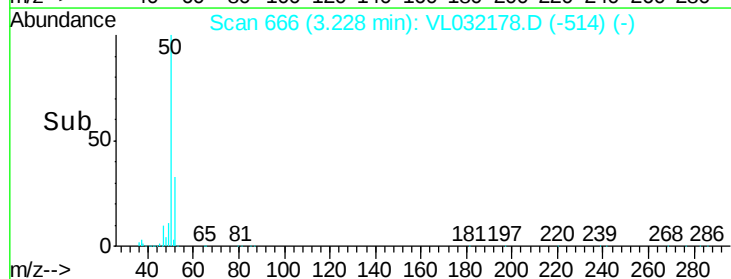
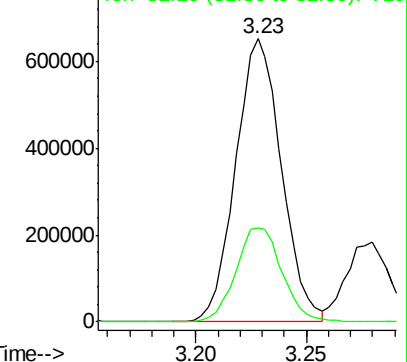
50 100

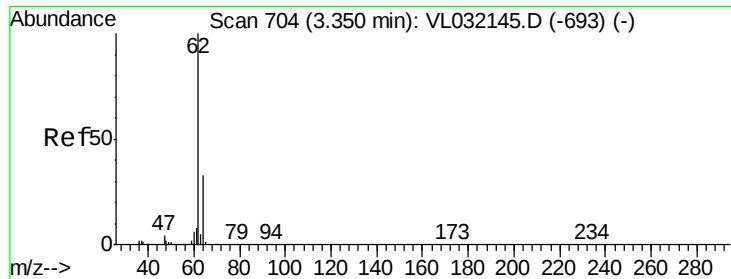
52 33.1 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.75 ppbv

RT: 3.35 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 62 Resp: 915882

Ion Ratio Lower Upper

62 100

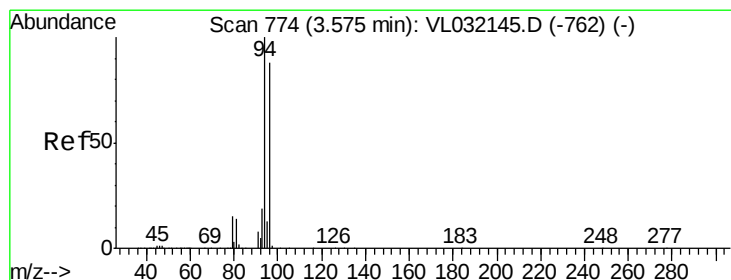
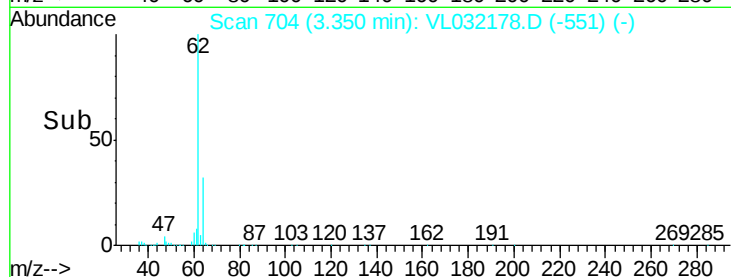
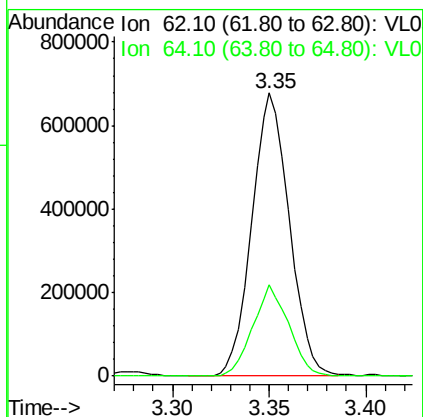
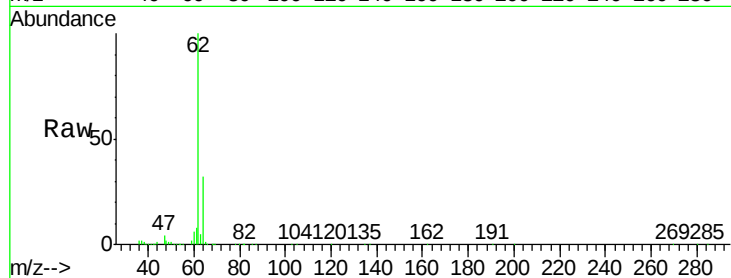
64 32.1 26.1 39.1

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#6

Bromomethane

Concen: 10.28 ppbv

RT: 3.58 min Scan# 774

Delta R.T. -0.01 min

Lab File: VL032178.D

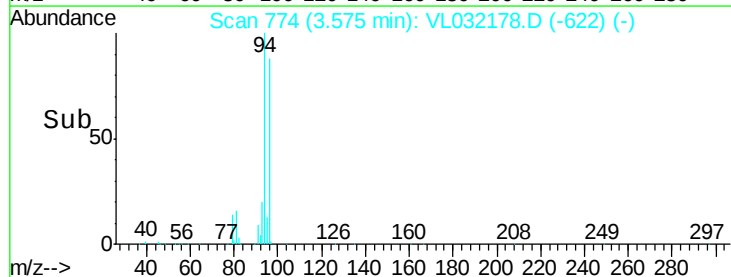
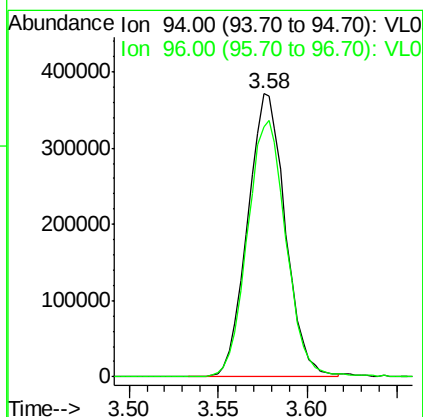
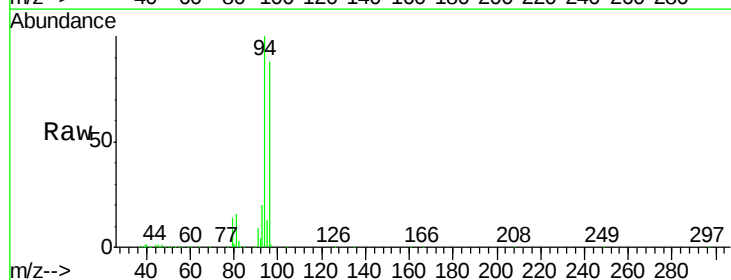
Acq: 2 Jul 2018 12:26

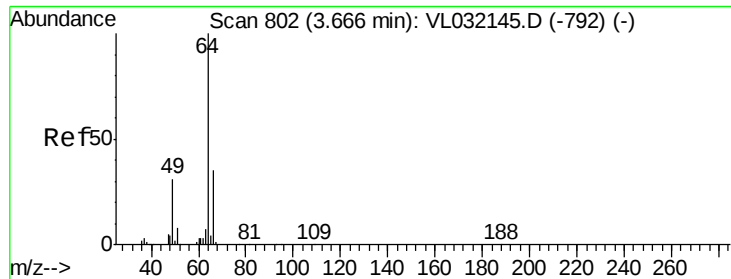
Tgt Ion: 94 Resp: 550476

Ion Ratio Lower Upper

94 100

96 88.2 74.7 112.1





#7

Chloroethane

Concen: 10.21 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 64 Resp: 339173

Ion Ratio Lower Upper

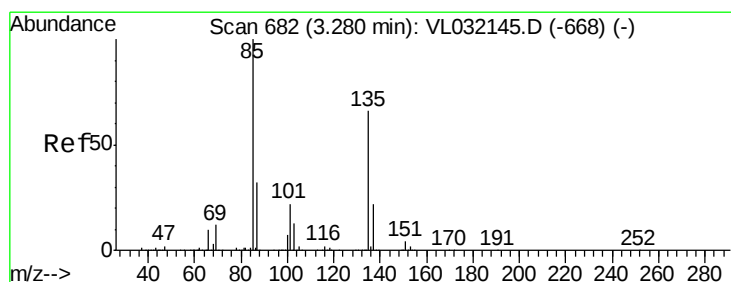
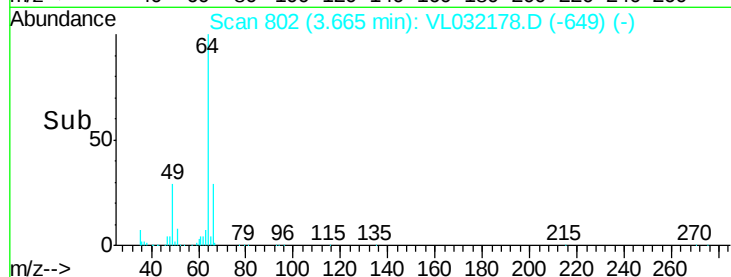
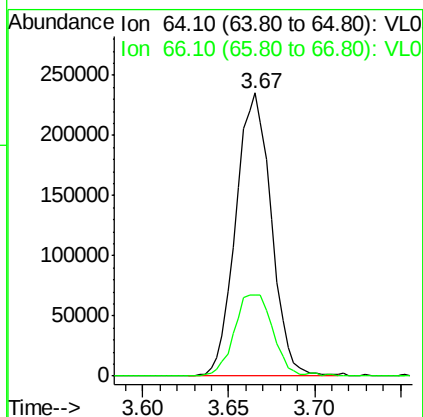
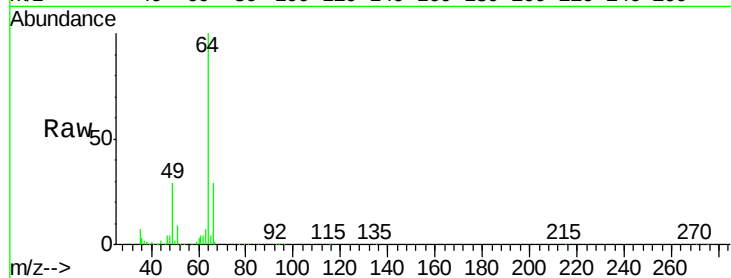
64 100

66 28.6 26.9 40.3

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 9.63 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032178.D

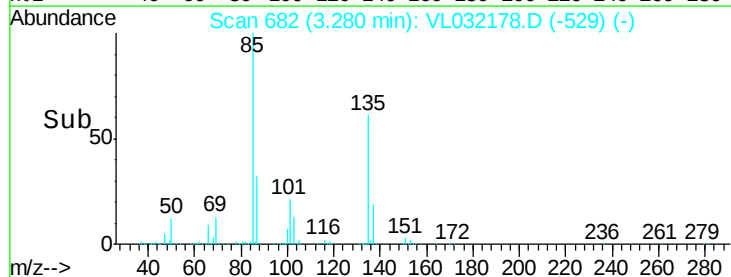
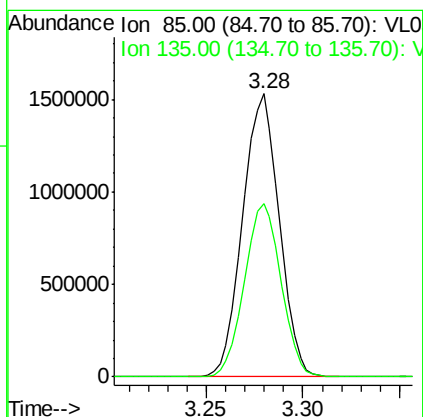
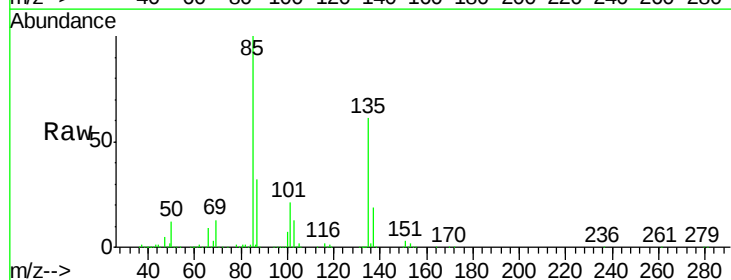
Acq: 2 Jul 2018 12:26

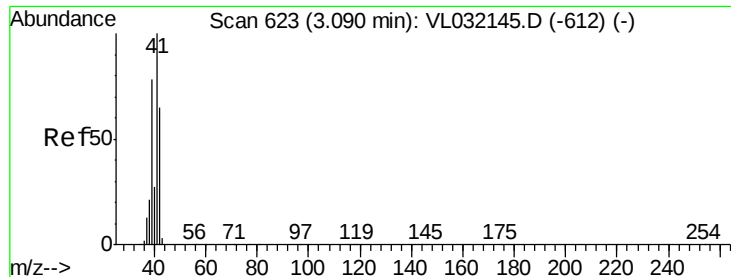
Tgt Ion: 85 Resp: 2018518

Ion Ratio Lower Upper

85 100

135 61.3 54.6 82.0





#9

Propene

Concen: 9.41 ppbv

RT: 3.09 min Scan# 623

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 41 Resp: 764753

Ion Ratio Lower Upper

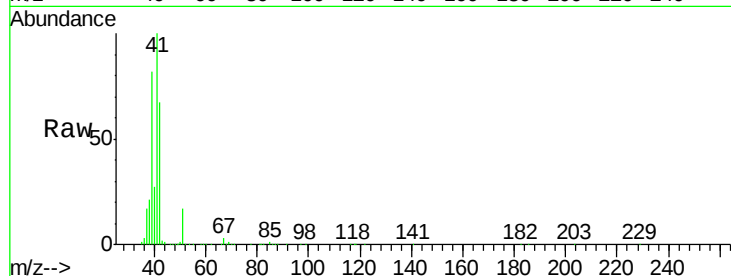
41 100

42 69.4 56.2 84.4

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.09

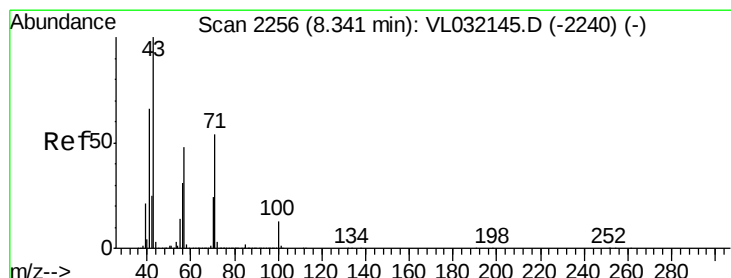
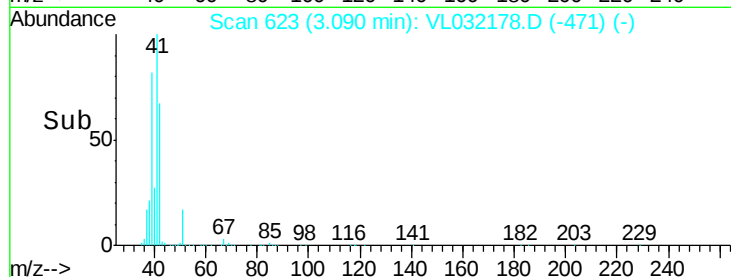
600000

400000

200000

0

Time-->



#10

Heptane

Concen: 9.11 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032178.D

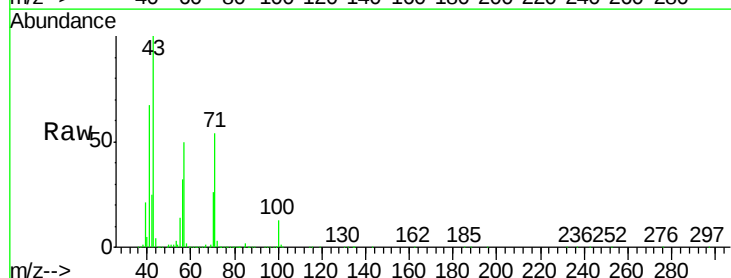
Acq: 2 Jul 2018 12:26

Tgt Ion: 43 Resp: 2156508

Ion Ratio Lower Upper

43 100

57 51.4 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.34

1200000

1000000

800000

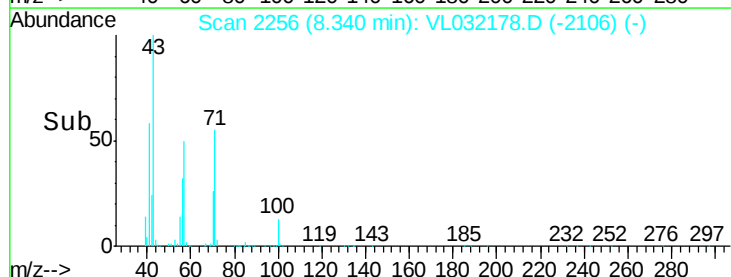
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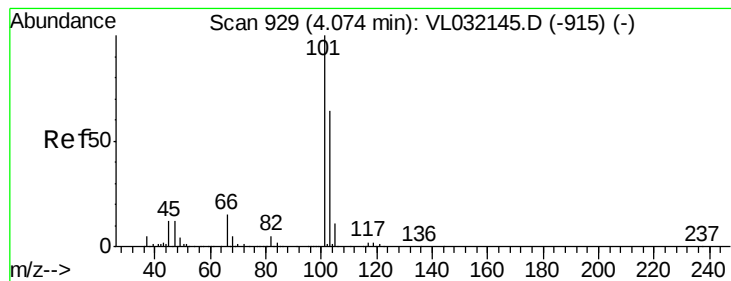
400000

200000

0

Time-->





#11

Trichlorofluoromethane

Concen: 10.60 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:101 Resp: 2154124

Ion Ratio Lower Upper

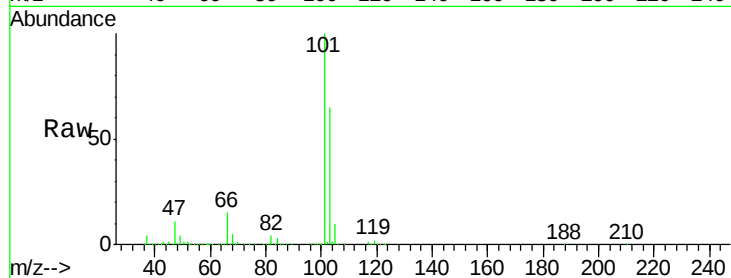
101 100

103 65.1 51.4 77.0

Manual Integrations
APPROVED

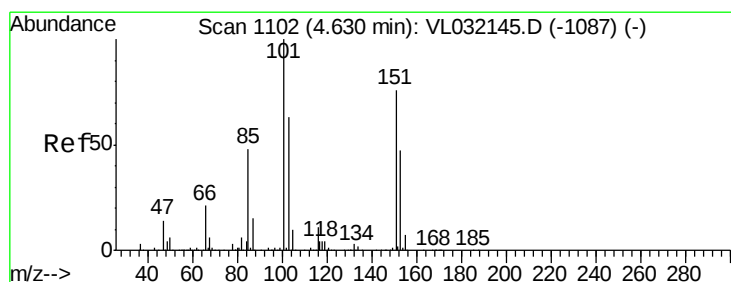
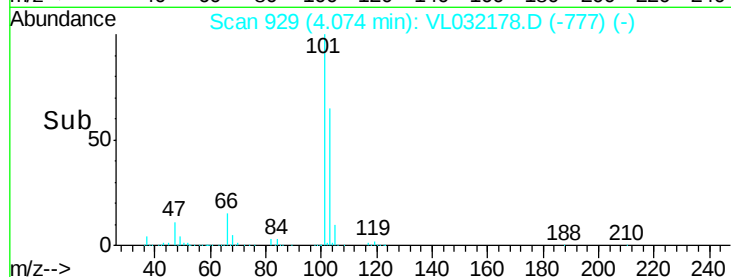
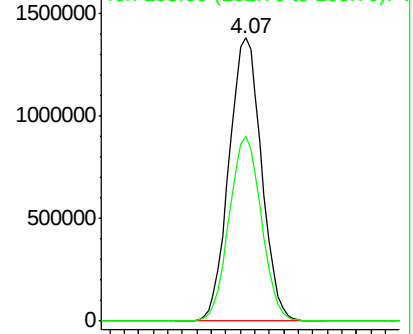
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.55 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032178.D

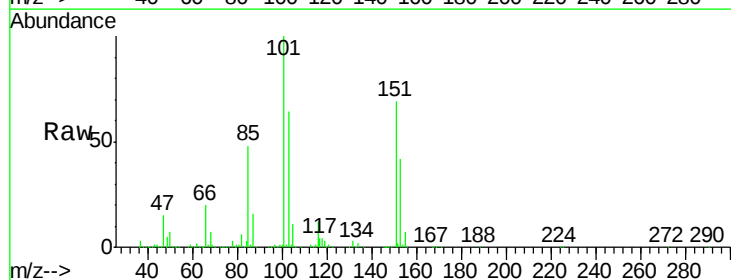
Acq: 2 Jul 2018 12:26

Tgt Ion:101 Resp: 1157611

Ion Ratio Lower Upper

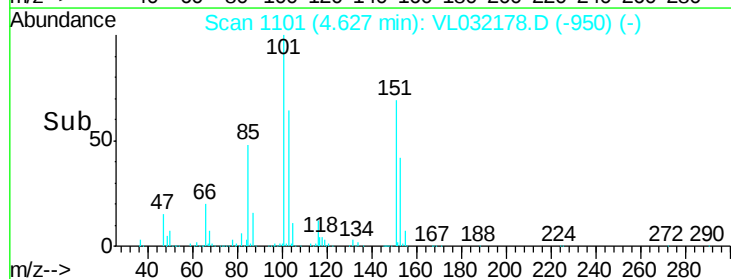
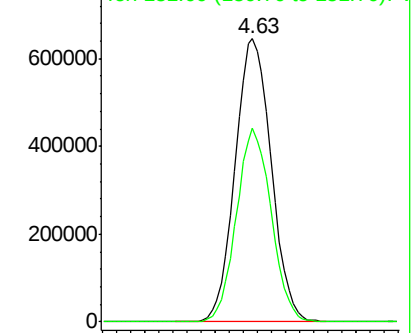
101 100

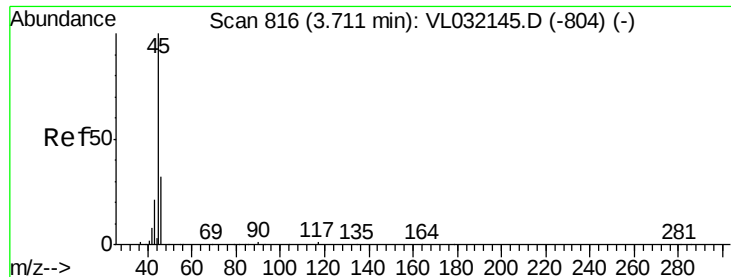
151 66.2 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





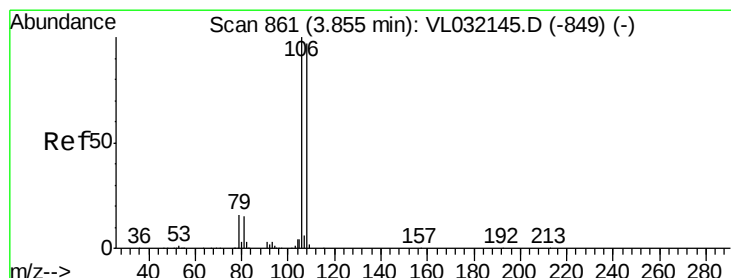
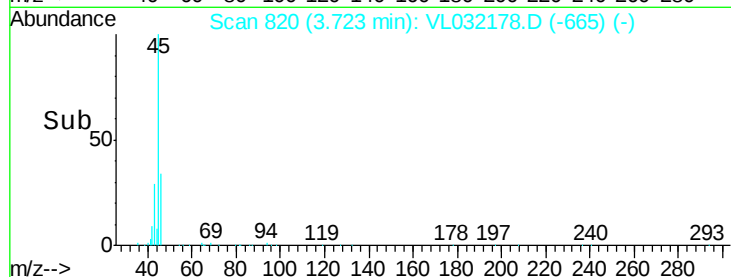
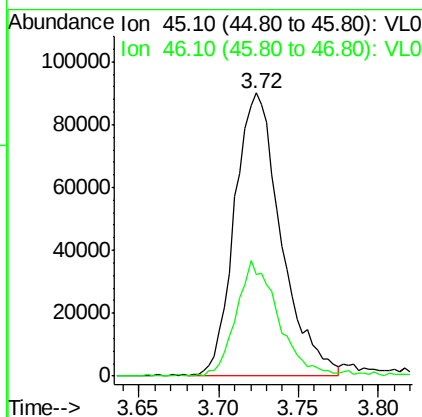
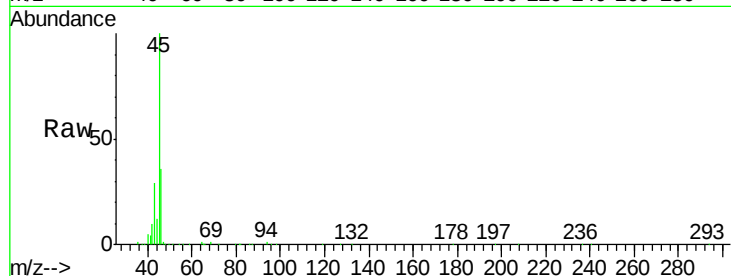
#13
Ethanol
Concen: 7.26 ppbv
RT: 3.72 min Scan# 820
Delta R.T. -0.00 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 45 Resp: 178692
Ion Ratio Lower Upper
45 100
46 37.7 14.6 58.4

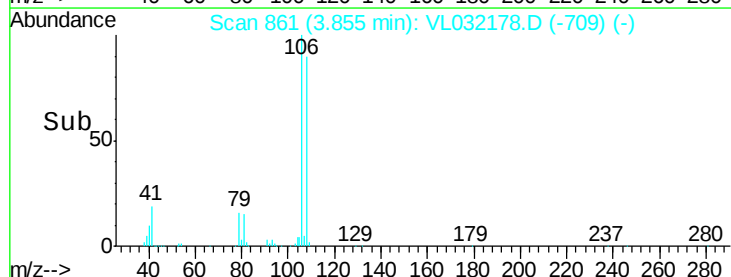
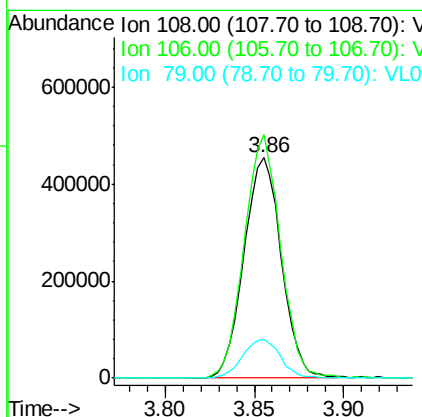
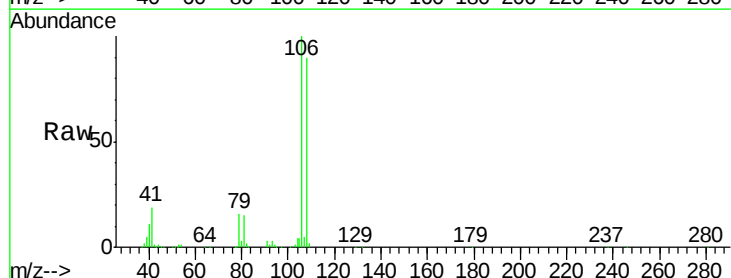
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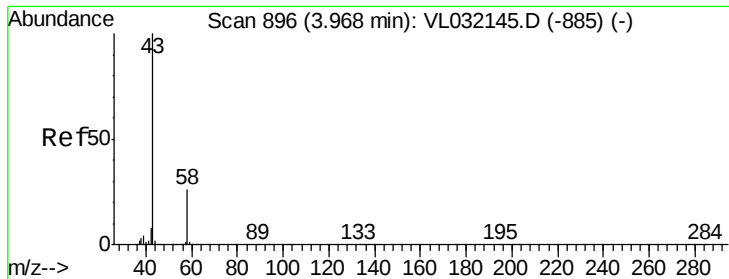
MMDadoda
7/3/2018 5:17:05 PM



#14
Bromoethene
Concen: 10.33 ppbv
RT: 3.86 min Scan# 861
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion: 108 Resp: 665143
Ion Ratio Lower Upper
108 100
106 108.2 86.3 129.5
79 17.9 12.7 19.1





#15

Acetone

Concen: 10.37 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 43 Resp: 1729064

Ion Ratio Lower Upper

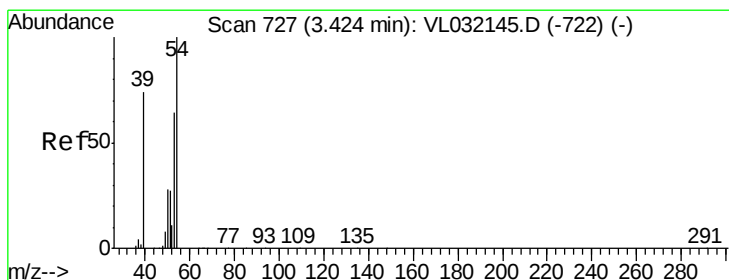
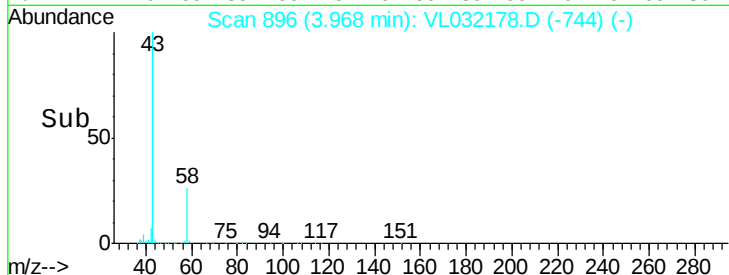
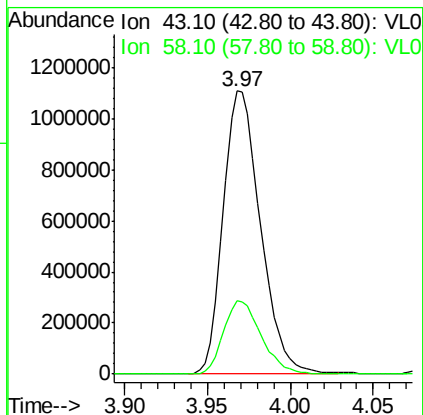
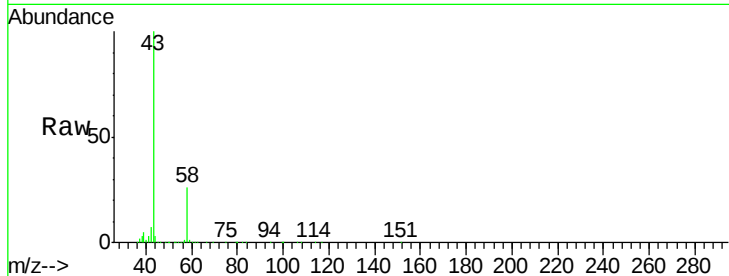
43 100

58 26.3 21.4 32.0

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#16

1,3-Butadiene

Concen: 10.76 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032178.D

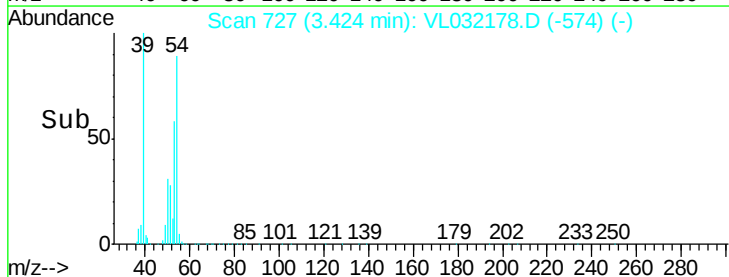
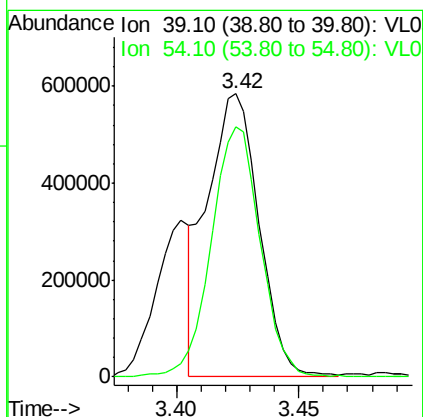
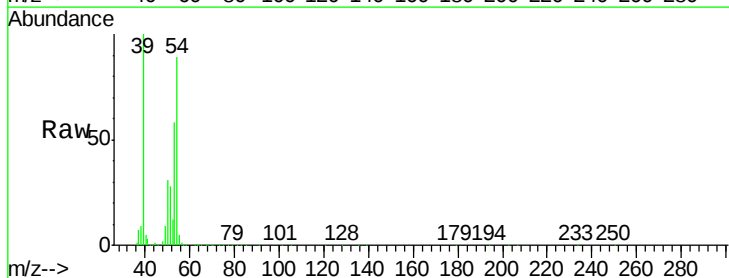
Acq: 2 Jul 2018 12:26

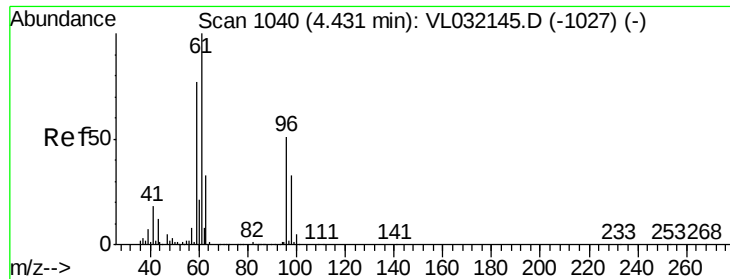
Tgt Ion: 39 Resp: 856867

Ion Ratio Lower Upper

39 100

54 85.0 75.8 113.6





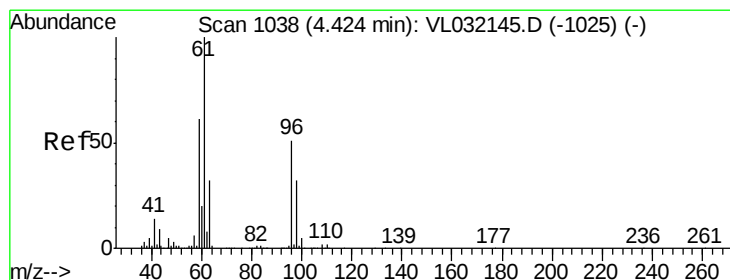
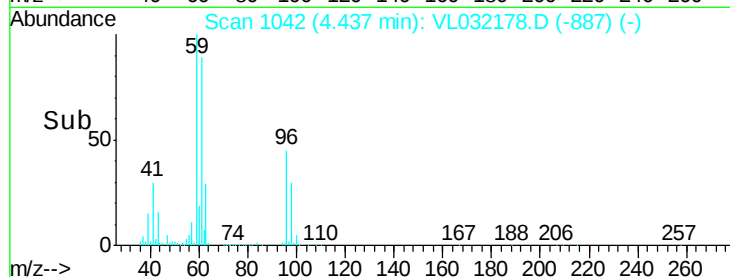
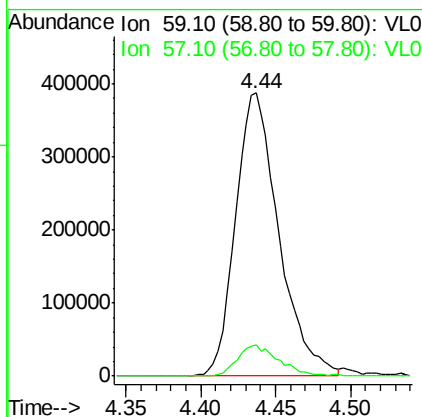
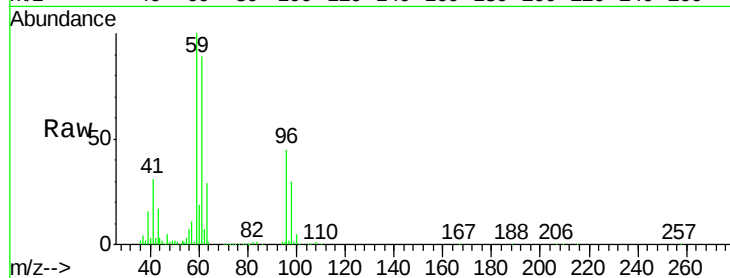
#17
 tert-Butyl alcohol
 Concen: 7.34 ppbv
 RT: 4.44 min Scan# 1042
 Delta R.T. -0.00 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.2	12.2

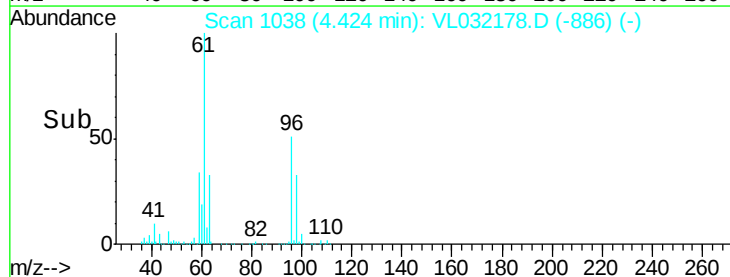
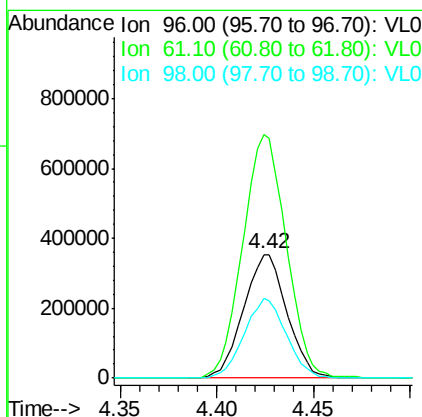
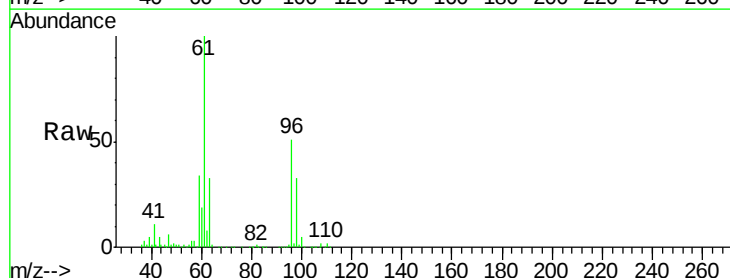
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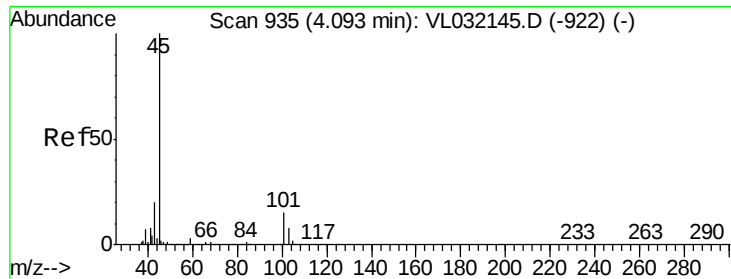
MMDadoda
 7/3/2018 5:17:05 PM



#18
 1,1-Dichloroethene
 Concen: 8.51 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	197.0	154.1	231.1
98	64.4	50.3	75.5





#19

Isopropyl Alcohol

Concen: 9.06 ppbv

RT: 4.10 min Scan# 937

Delta R.T. -0.00 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 45 Resp: 1256162

Ion Ratio Lower Upper

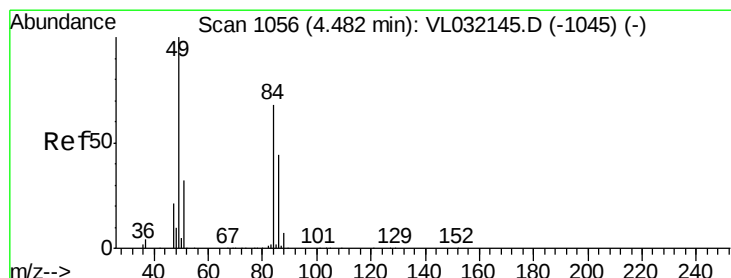
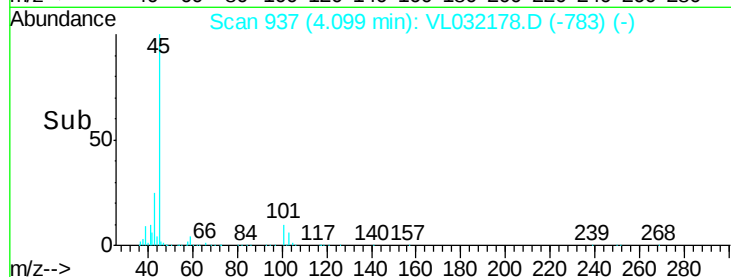
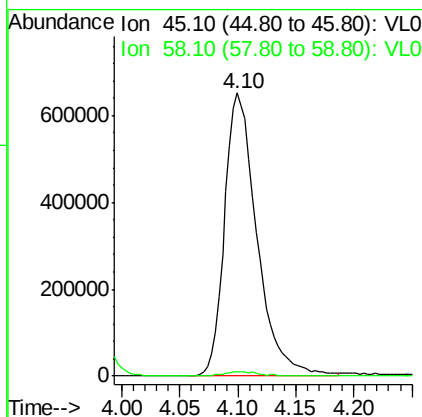
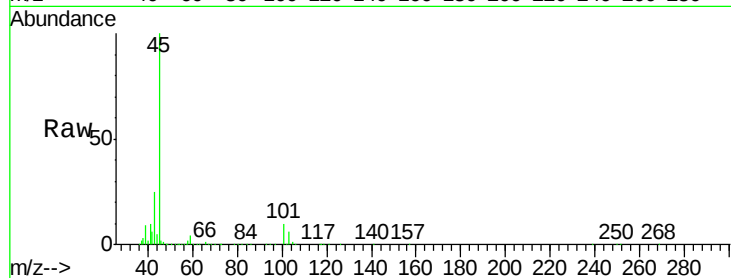
45 100

58 1.5 29.4 44.0#

Manual Integrations
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MMDadoda

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#20

Methylene Chloride

Concen: 8.79 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion: 84 Resp: 535552

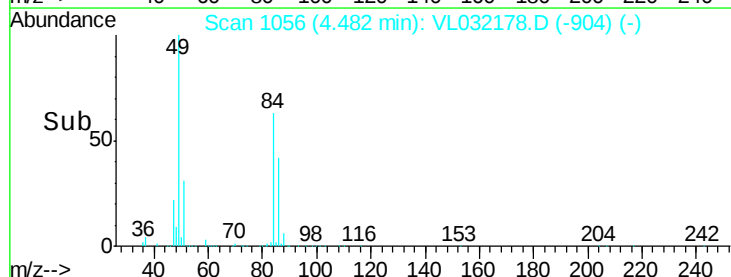
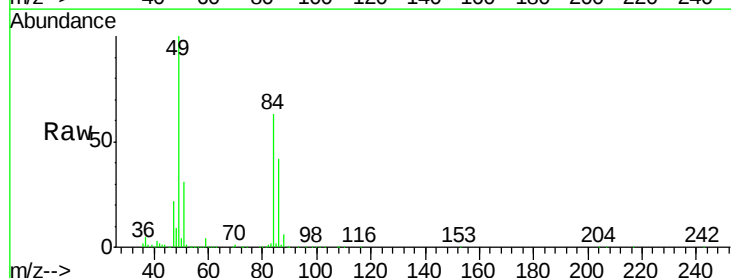
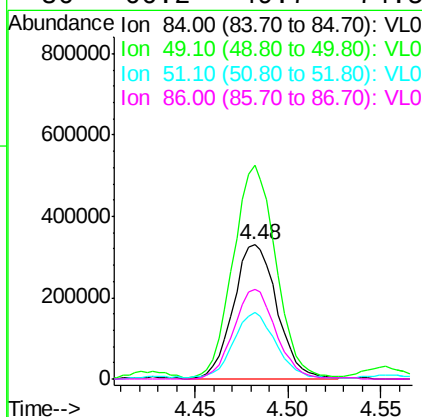
Ion Ratio Lower Upper

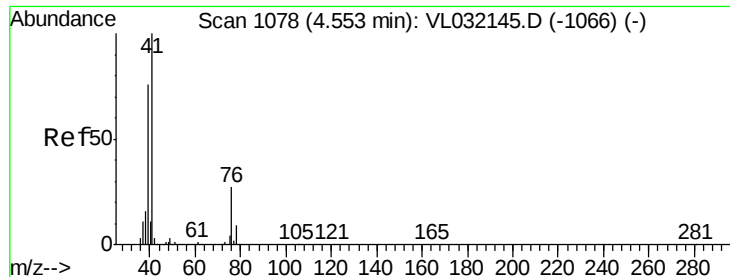
84 100

49 158.1 119.6 179.4

51 49.0 36.3 54.5

86 66.2 49.7 74.5





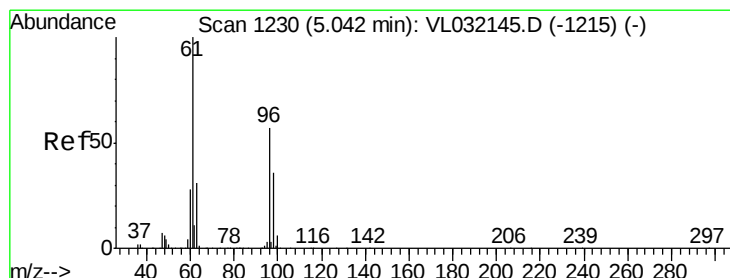
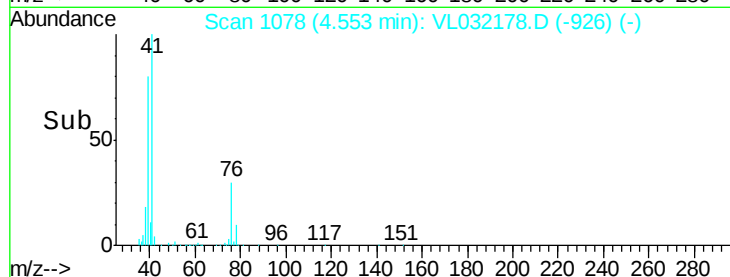
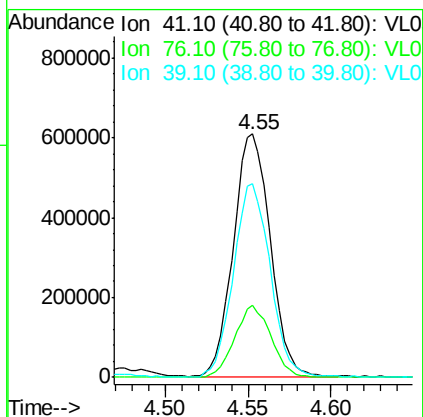
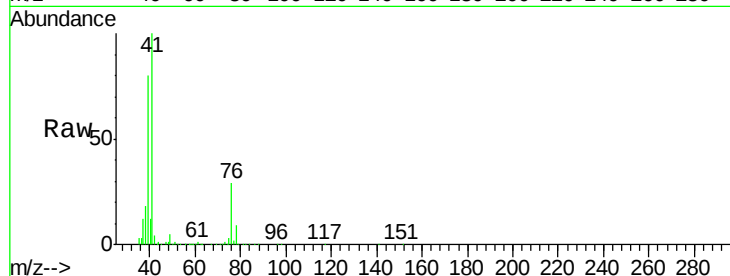
#21
Allvl Chloride
Concen: 8.27 ppbv
RT: 4.55 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.0	22.5	33.7
39	79.4	60.5	90.7

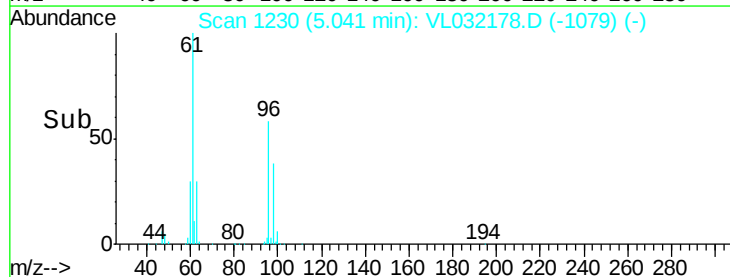
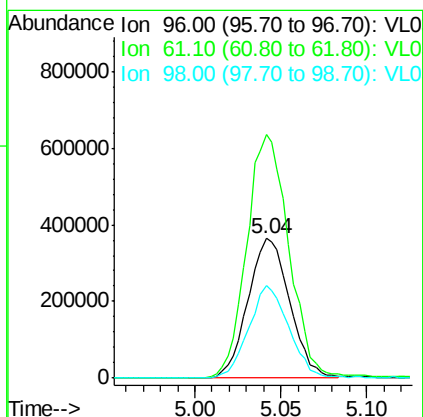
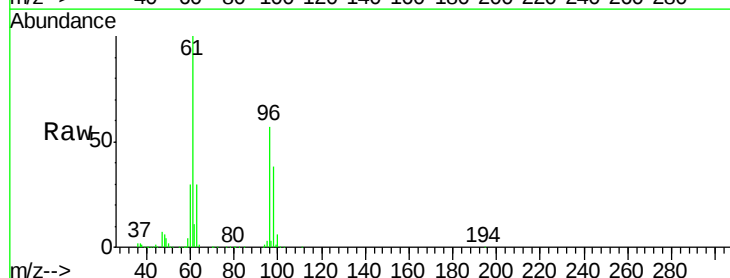
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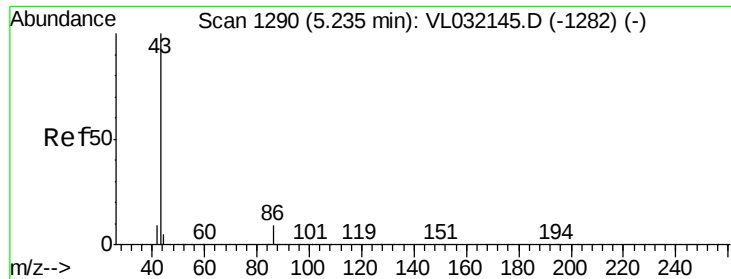
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.09 ppbv
RT: 5.04 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.6	135.2	202.8
98	66.5	49.7	74.5





#23

Vinyl Acetate

Concen: 8.57 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 43 Resp: 2591189

Ion Ratio Lower Upper

43 100

86 7.4 6.2 9.4

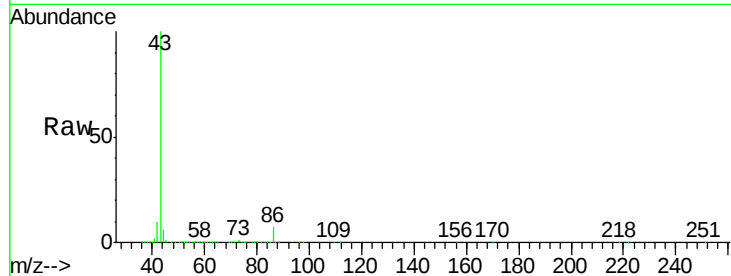
42 9.6 6.9 10.3

44 5.4 3.8 5.8

Manual Integrations
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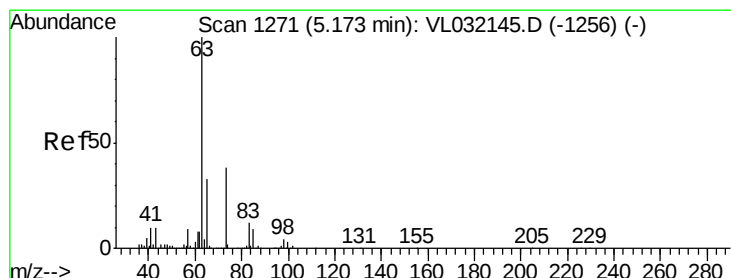
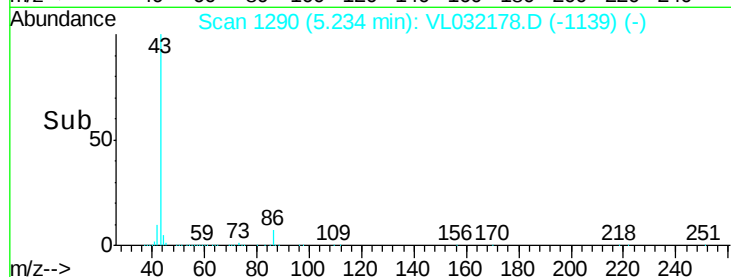
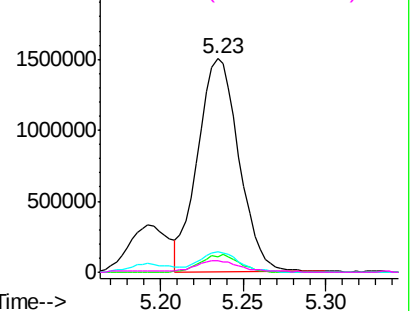


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.18 ppbv

RT: 5.17 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

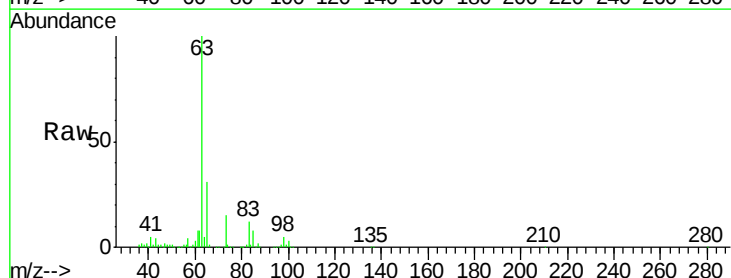
Tgt Ion: 63 Resp: 1778940

Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.2

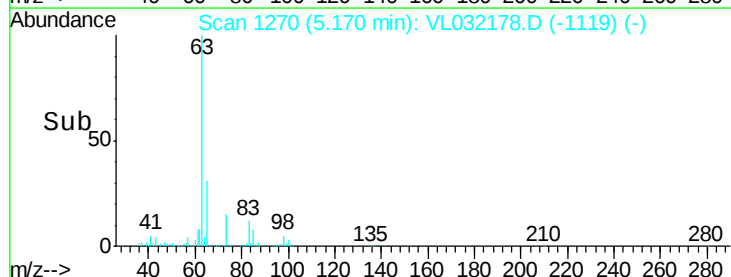
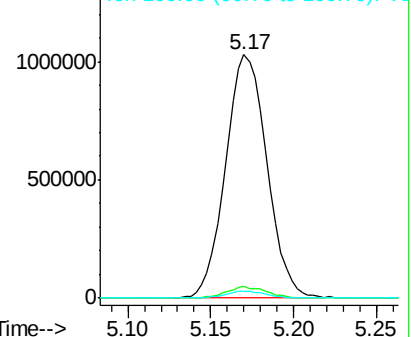
100 2.9 1.7 5.0

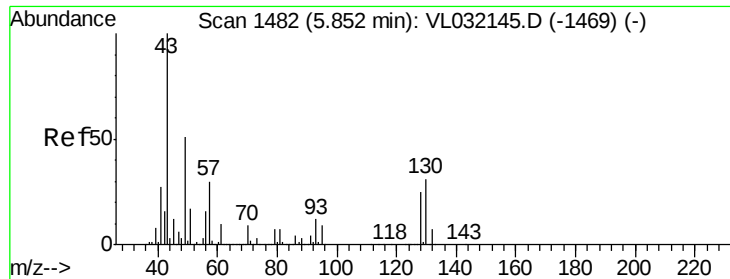


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





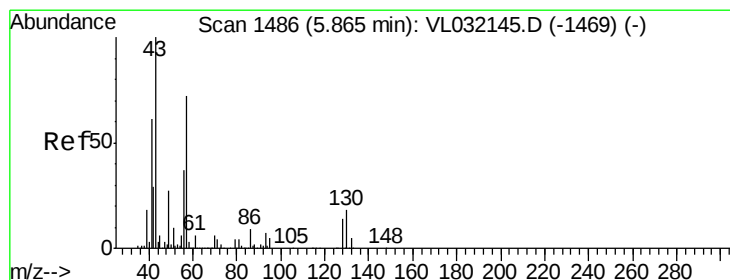
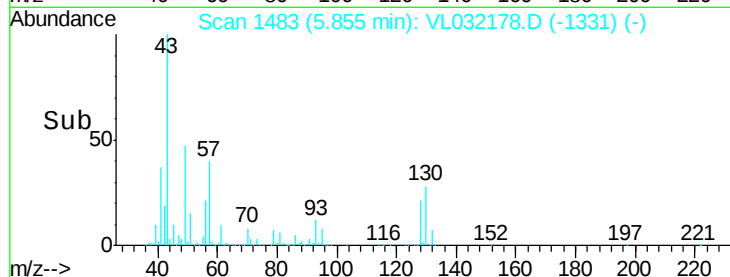
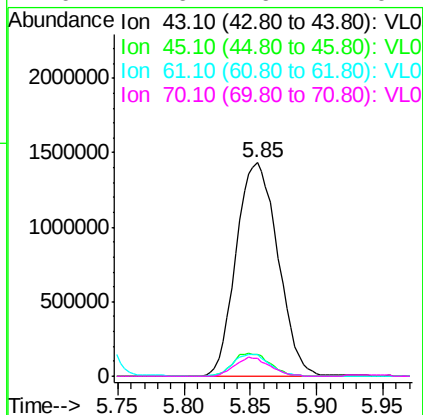
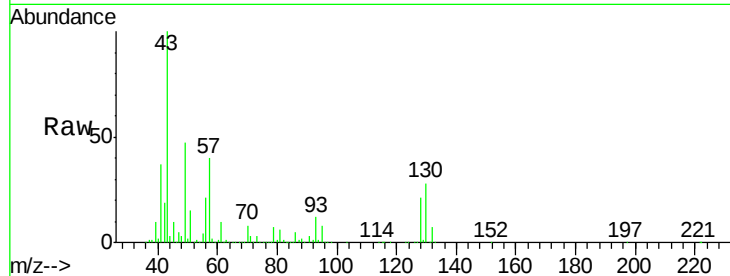
#25
Ethyl Acetate
Concen: 9.09 ppbv
RT: 5.85 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	9.4	7.4	11.0
70	7.6	6.1	9.1

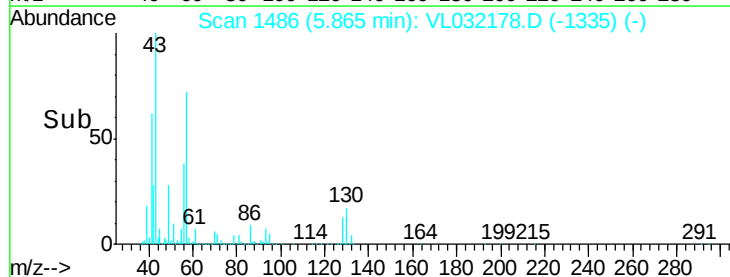
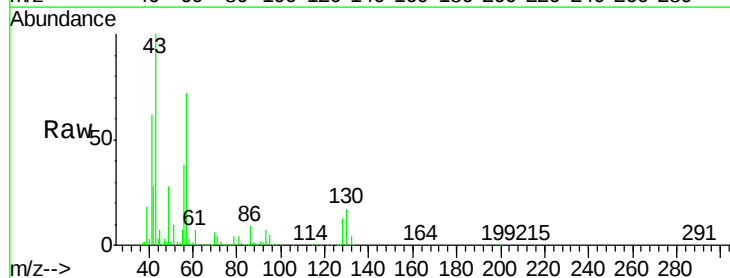
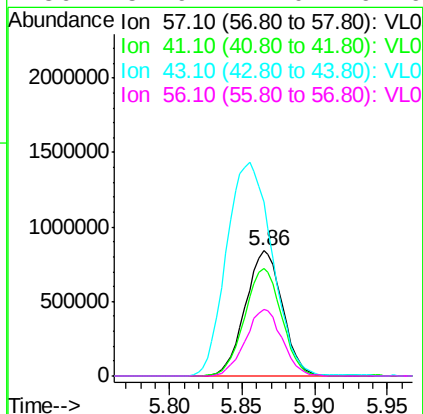
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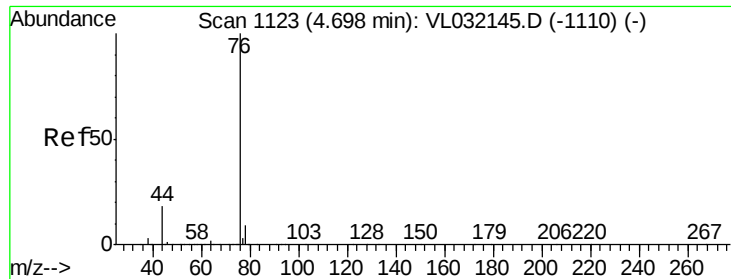
MMDadoda
7/3/2018 5:17:05 PM



#26
Hexane
Concen: 9.41 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.9	68.6	103.0
43	211.1	168.6	252.8
56	52.9	41.0	61.6





#27

Carbon Disulfide

Concen: 8.76 ppbv

RT: 4.70 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

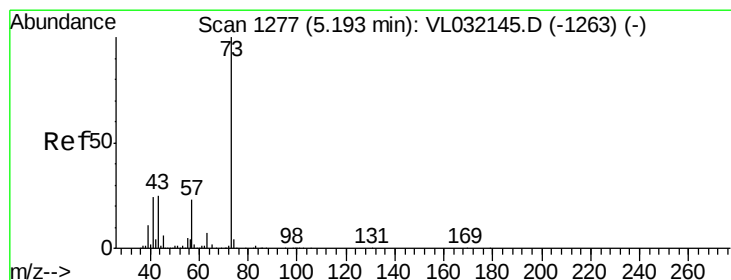
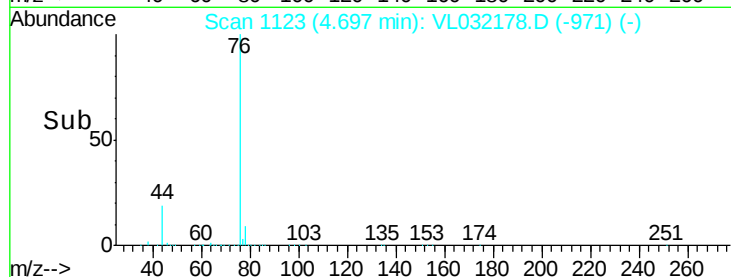
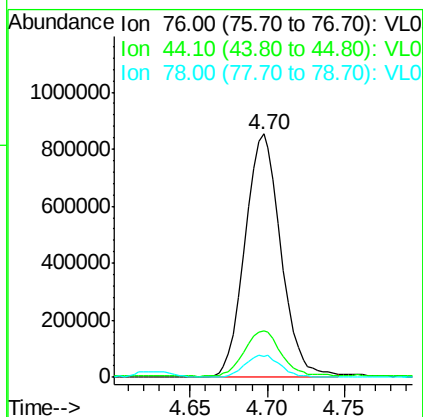
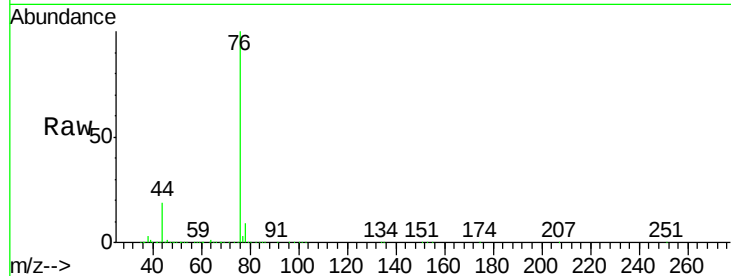
ClientSampleId :

VL0702ABS01

Tot Ion:	76	Resp:	1384147
Ion	Ratio	Lower	Upper
76	100		
44	19.1	15.1	22.7
78	9.3	7.2	10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 8.66 ppbv

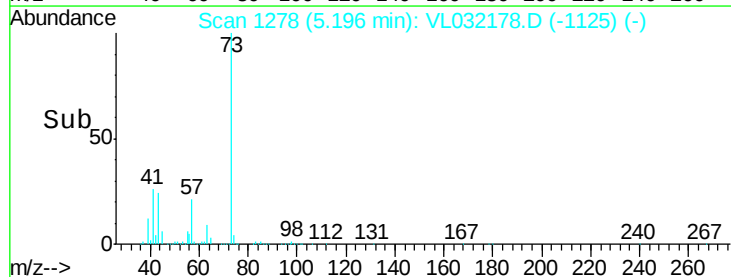
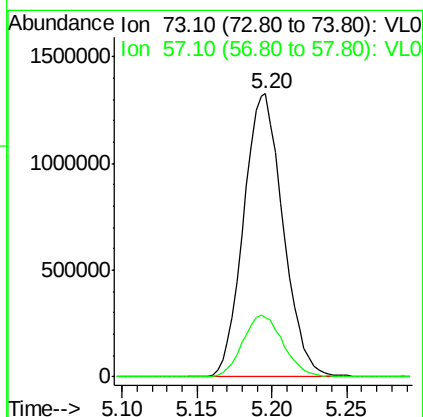
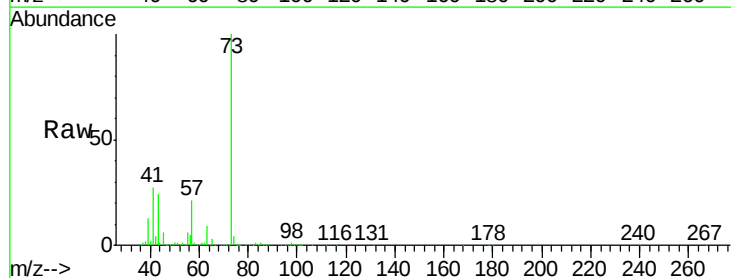
RT: 5.20 min Scan# 1278

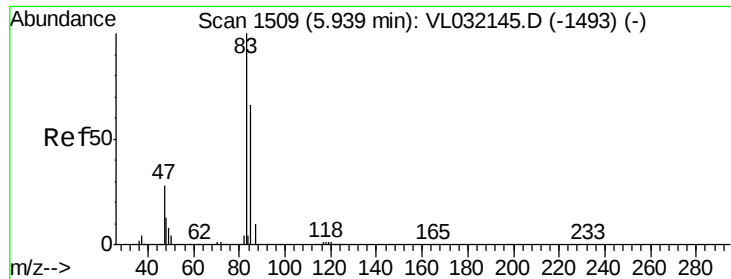
Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion:	73	Resp:	2433774
Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.6	27.8





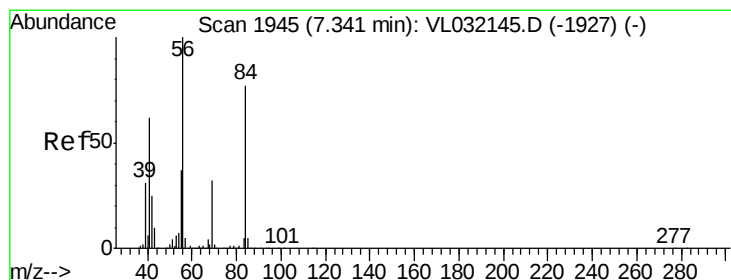
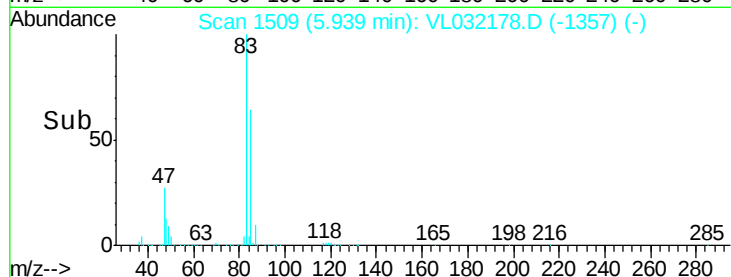
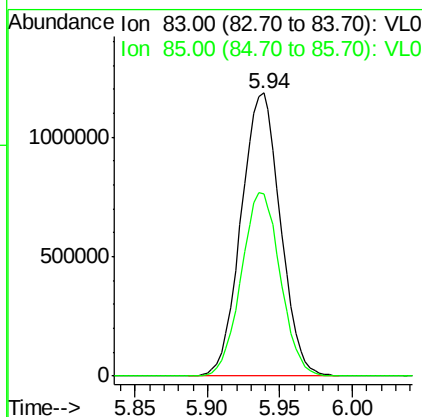
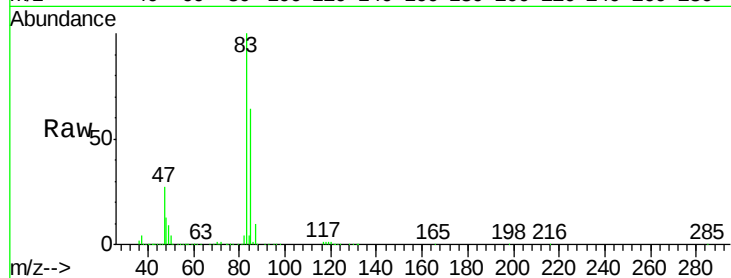
#29
Chloroform
Concen: 9.65 ppbv
RT: 5.94 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 83 Resp: 2232969
Ion Ratio Lower Upper
83 100
85 64.4 51.6 77.4

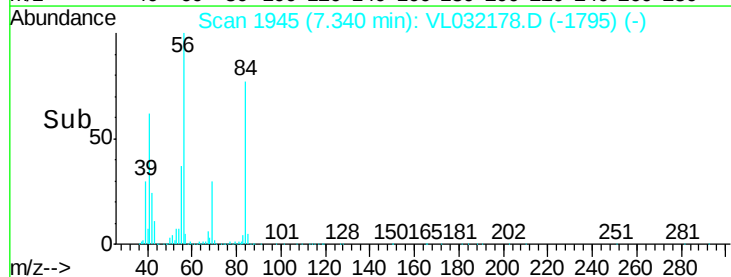
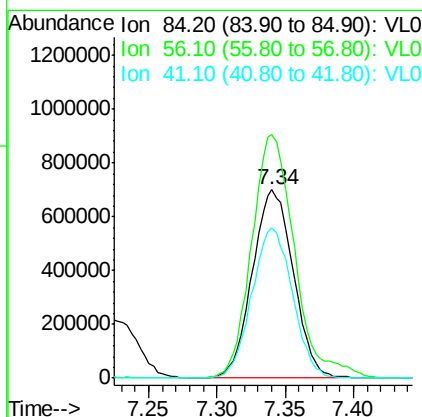
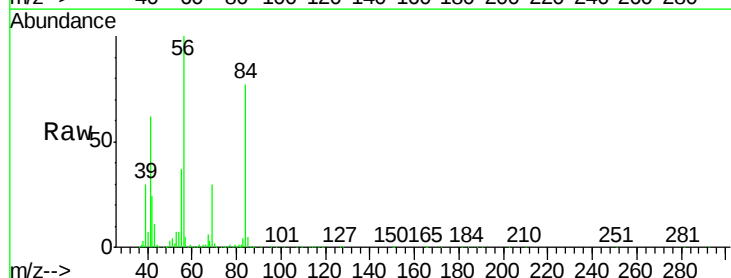
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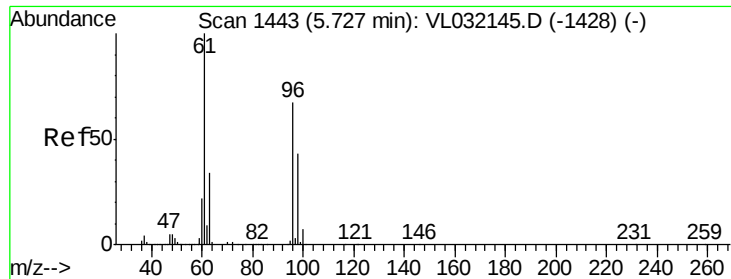
MMDadoda
7/3/2018 5:17:05 PM



#30
Cyclohexane
Concen: 9.75 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion: 84 Resp: 1460931
Ion Ratio Lower Upper
84 100
56 135.9 109.1 163.7
41 79.2 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 9.49 ppbv

RT: 5.73 min Scan# 1443

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 61 Resp: 1507794

Ion Ratio Lower Upper

61 100

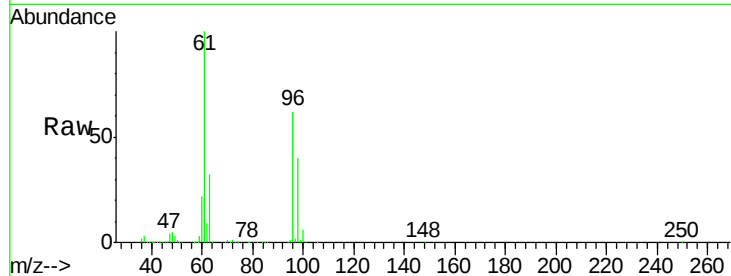
96 61.7 54.2 81.4

98 39.6 34.6 52.0

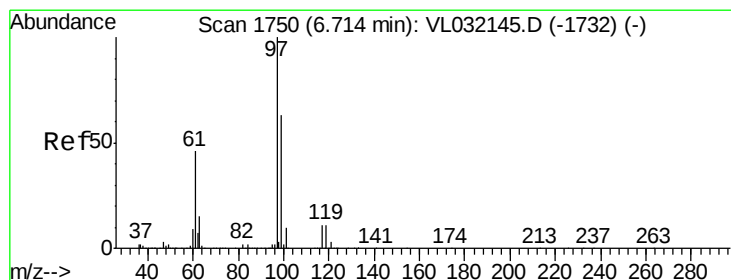
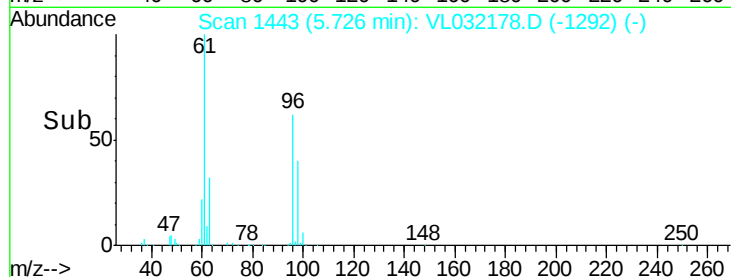
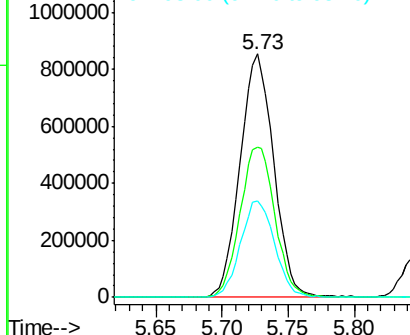
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.44 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

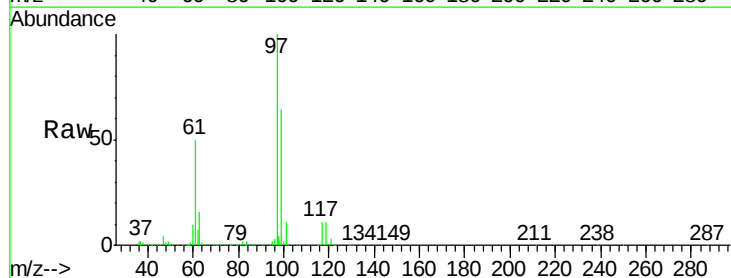
Tgt Ion: 97 Resp: 2532805

Ion Ratio Lower Upper

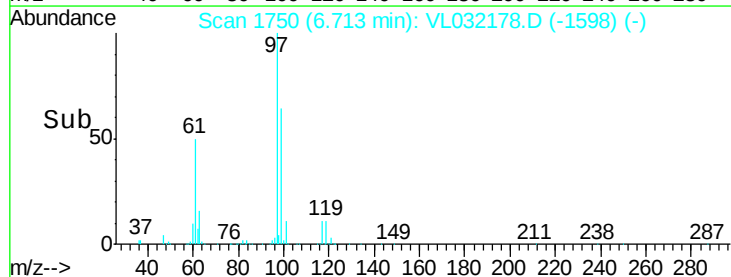
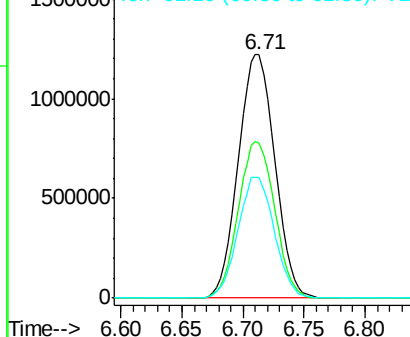
97 100

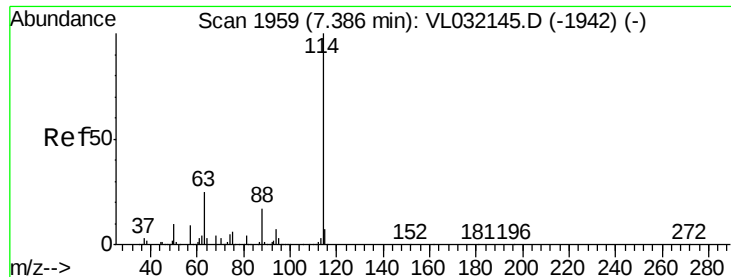
99 64.1 51.3 76.9

61 49.2 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





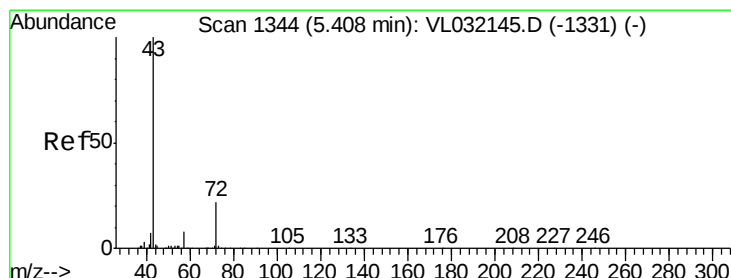
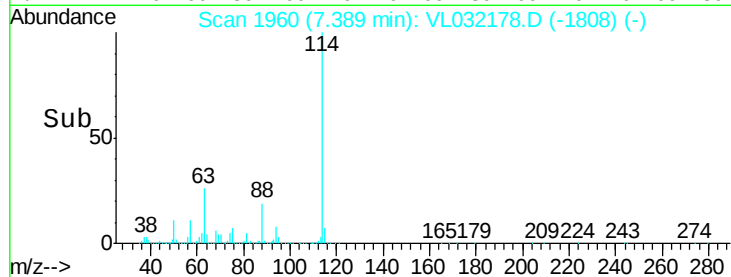
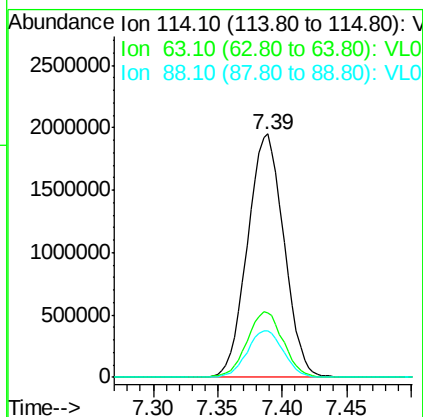
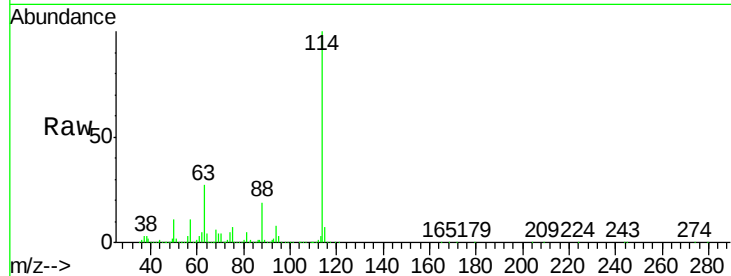
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.39 min Scan# 1960
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion:114 Resp: 3841096
 Ion Ratio Lower Upper
 114 100
 63 27.1 19.1 28.7
 88 19.2 13.9 20.9

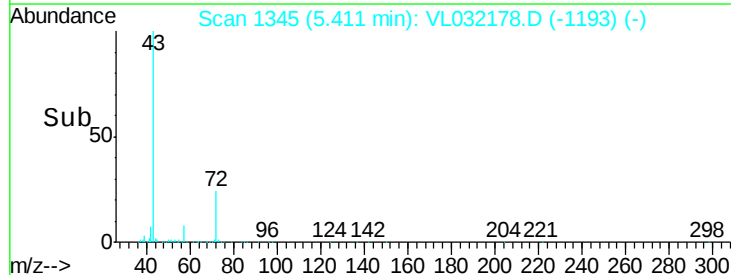
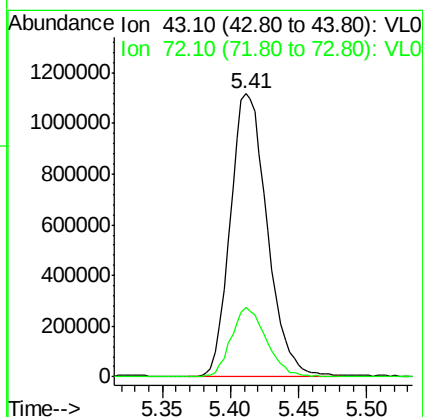
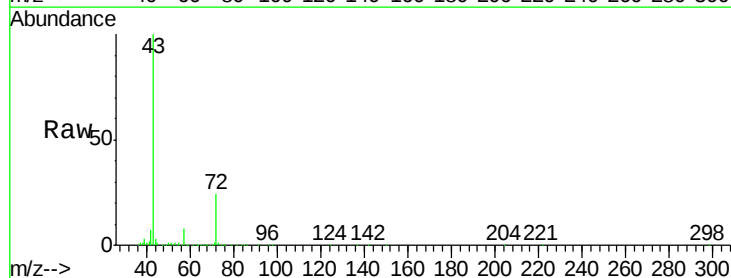
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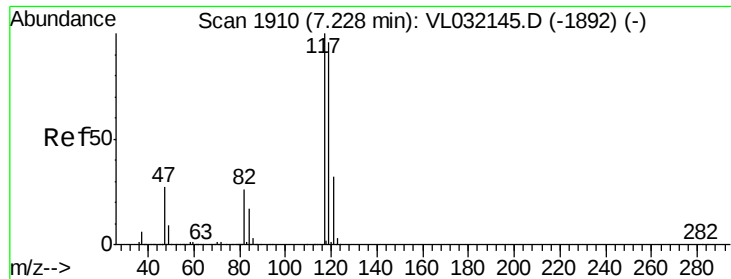
MMDadoda
 7/3/2018 5:17:05 PM



#34
 2-Butanone
 Concen: 8.57 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion: 43 Resp: 2089449
 Ion Ratio Lower Upper
 43 100
 72 23.7 18.4 27.6





#35

Carbon Tetrachloride

Concen: 9.39 ppbv

RT: 7.23 min Scan# 1910

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:117 Resp: 2468378

Ion Ratio Lower Upper

117 100

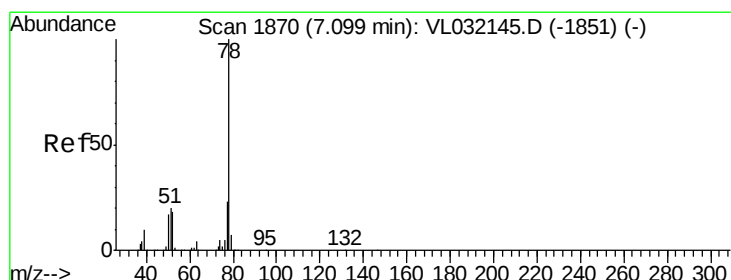
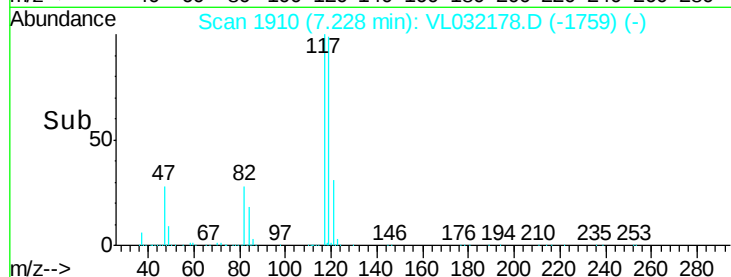
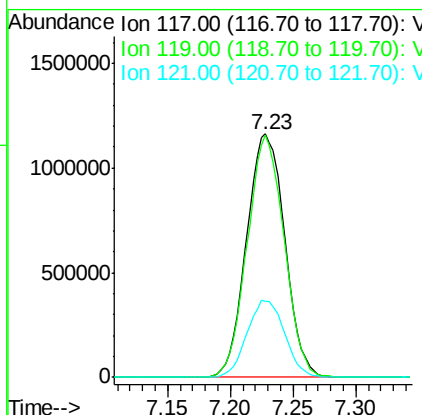
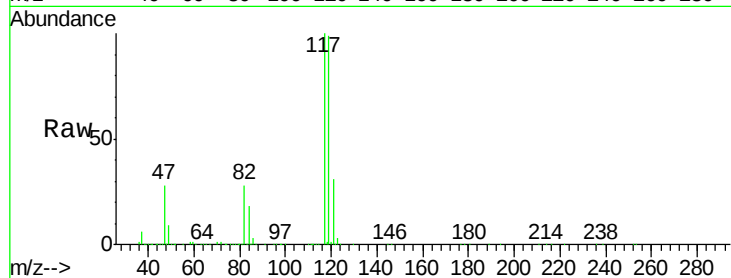
119 99.4 74.8 112.2

121 31.3 24.0 36.0

Manual Integrations
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#36

Benzene

Concen: 9.52 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

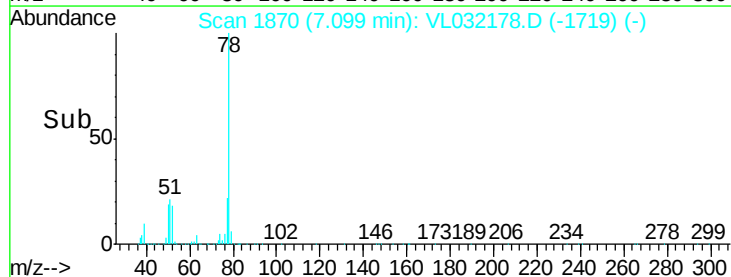
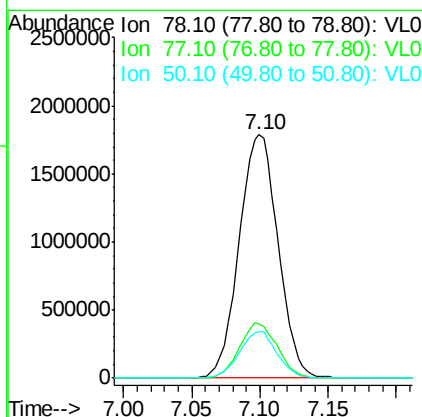
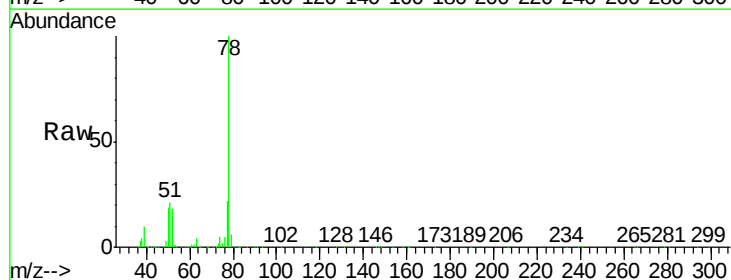
Tgt Ion: 78 Resp: 3539015

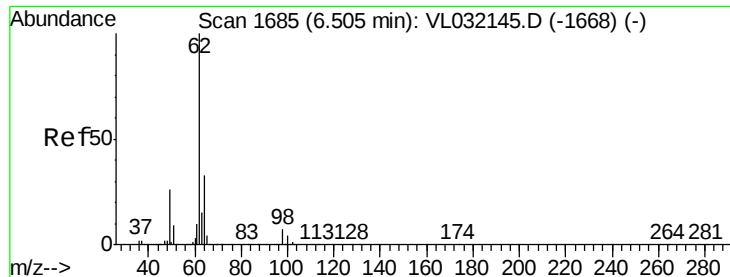
Ion Ratio Lower Upper

78 100

77 22.3 17.7 26.5

50 19.2 14.0 21.0





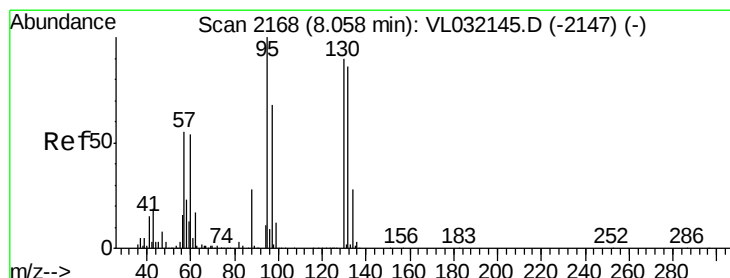
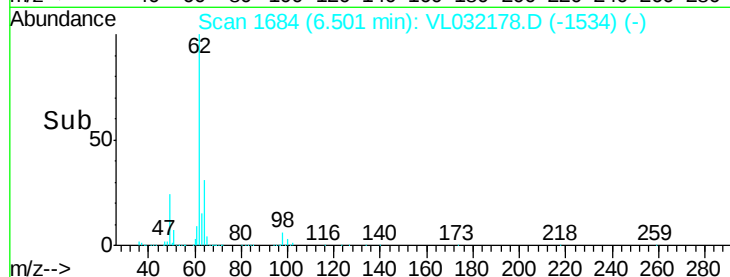
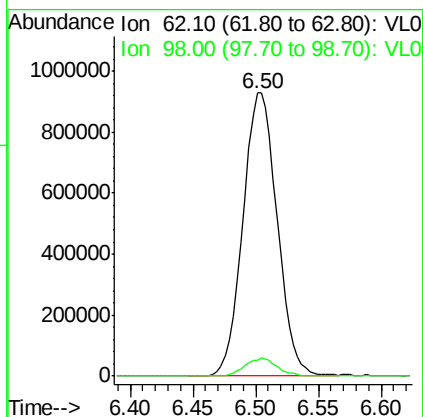
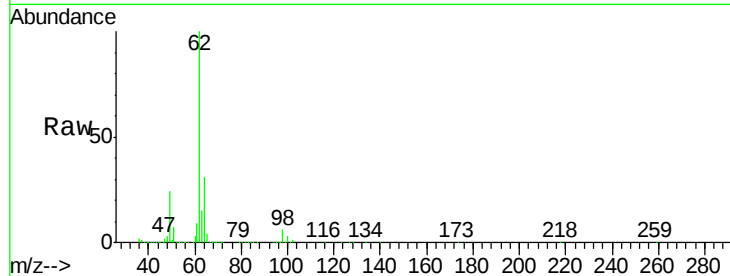
#37
 1,2-Dichloroethane
 Concen: 9.50 ppbv
 RT: 6.50 min Scan# 1684
 Delta R.T. -0.02 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion: 62 Resp: 1759005
 Ion Ratio Lower Upper
 62 100
 98 6.1 5.8 8.6

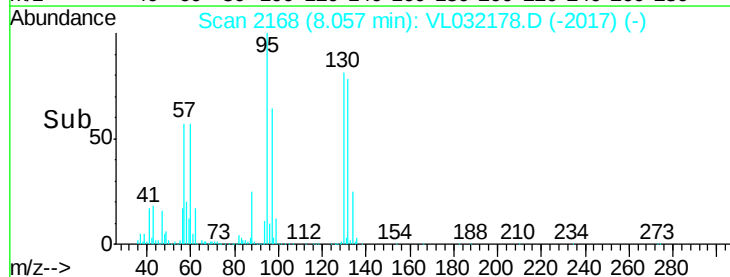
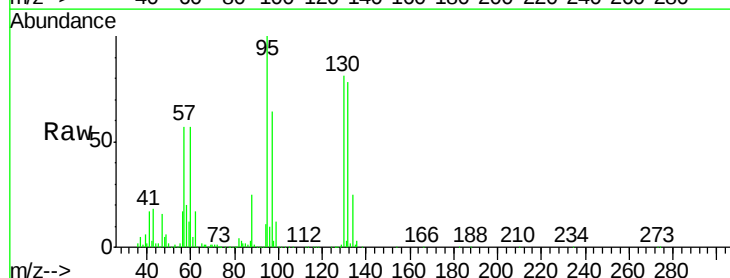
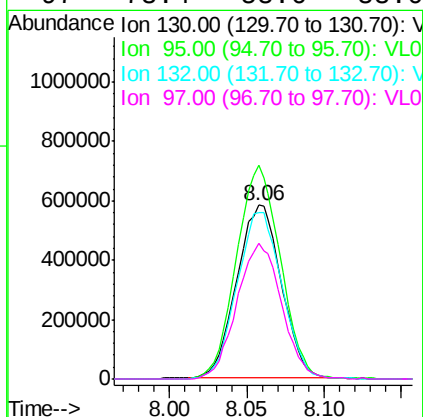
Manual Integrations
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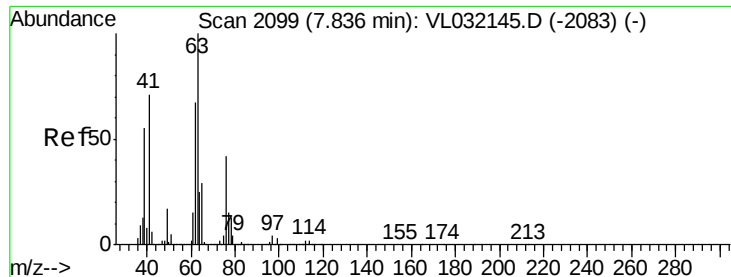
MMDadoda
 7/3/2018 5:17:05 PM



#38
 Trichloroethene
 Concen: 8.05 ppbv
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion:130 Resp: 1168678
 Ion Ratio Lower Upper
 130 100
 95 123.2 88.1 132.1
 132 96.0 74.6 112.0
 97 78.4 58.6 88.0





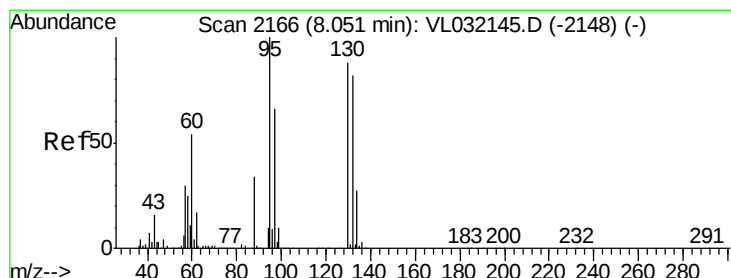
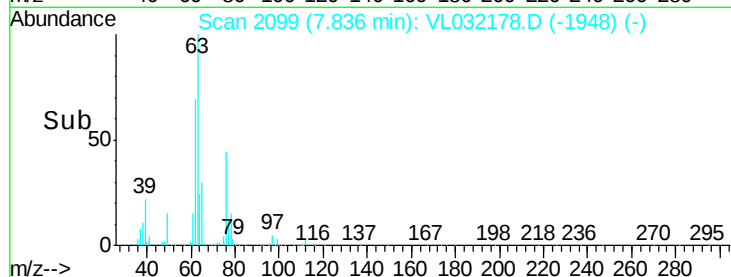
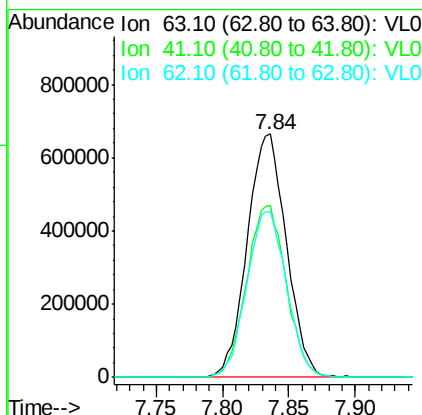
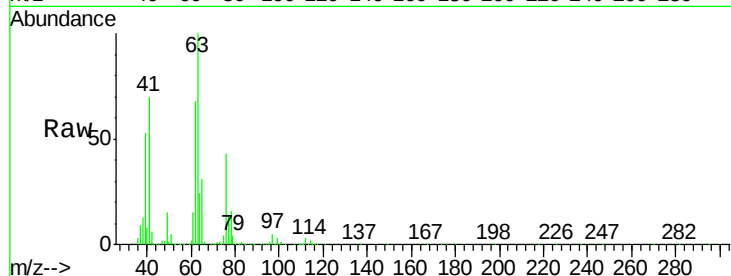
#39
 1,2-Dichloropropane
 Concen: 9.28 ppbv
 RT: 7.84 min Scan# 2099
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.4	53.3	79.9
62	67.9	54.8	82.2

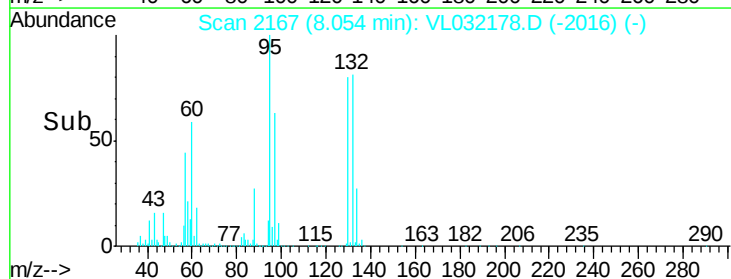
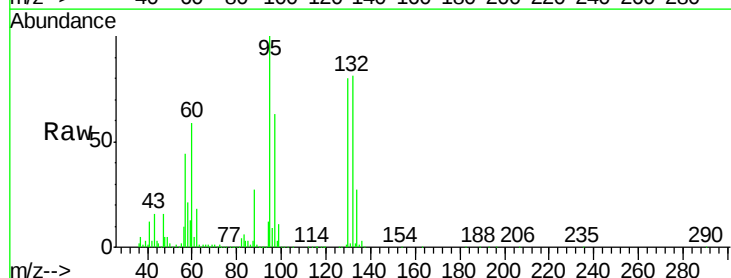
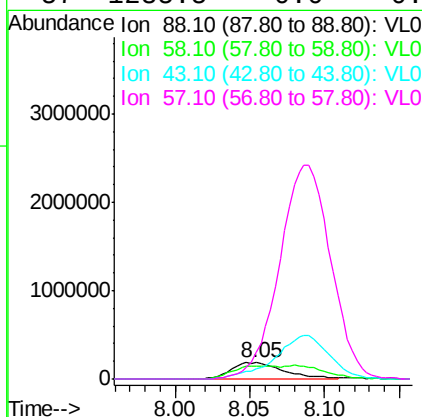
Manual Integrations
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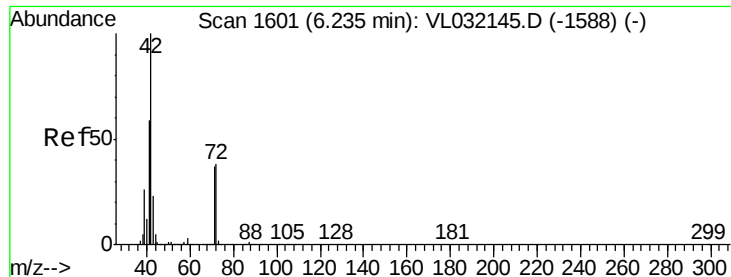
MMDadoda
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#40
 1,4-Dioxane
 Concen: 7.82 ppbv
 RT: 8.05 min Scan# 2167
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
88	100		
58	138.5	47.4	71.0#
43	278.1	0.0	0.0#
57	1285.5	0.0	0.0#





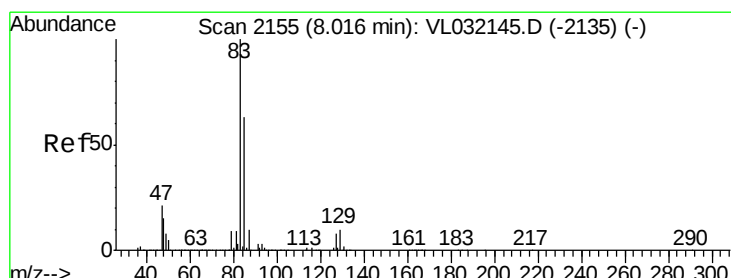
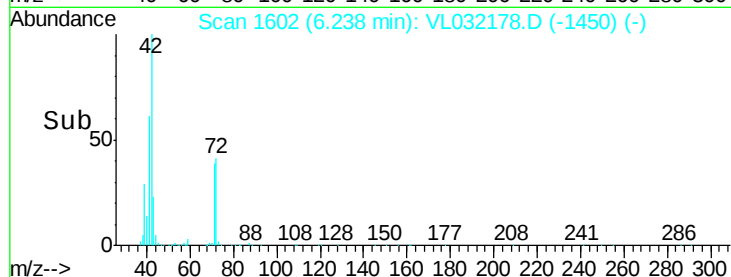
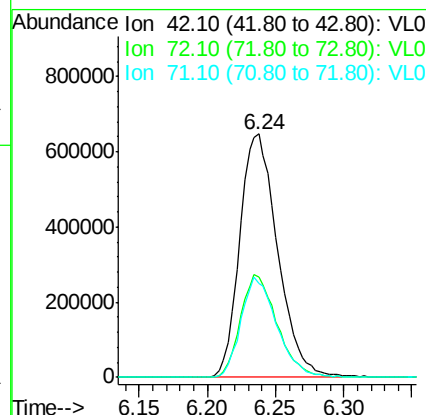
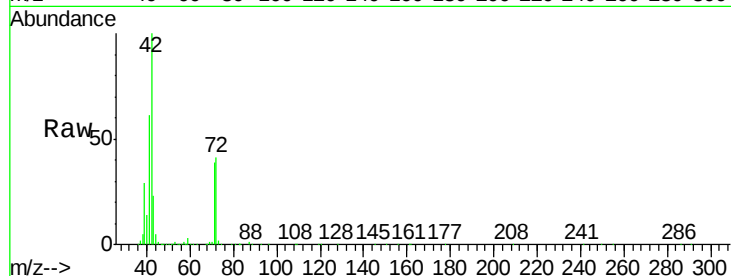
#41
Tetrahydrofuran
Concen: 8.54 ppbv
RT: 6.24 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	31.1	46.7
71	39.3	29.5	44.3

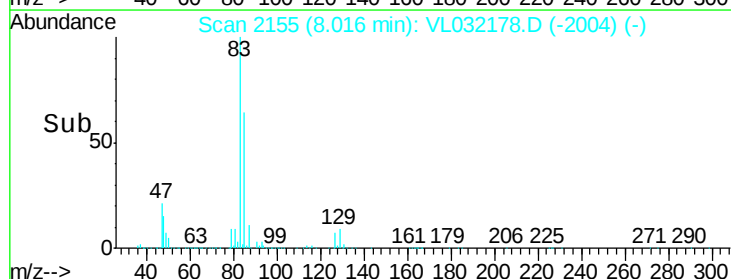
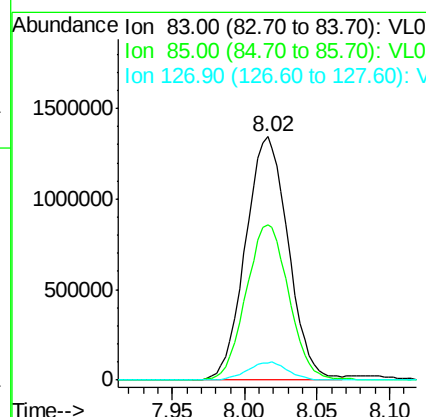
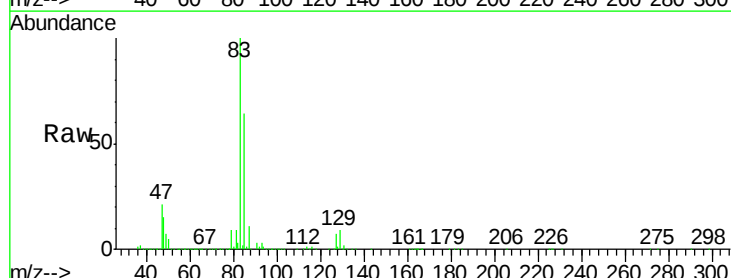
Manual Integrations
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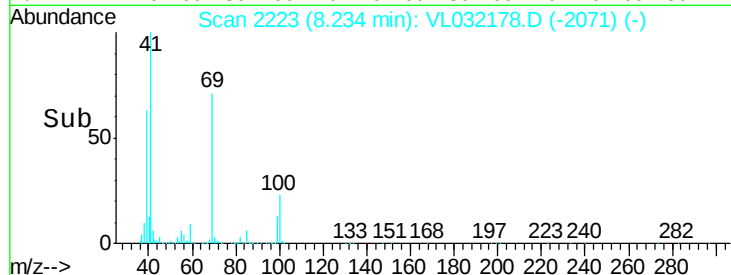
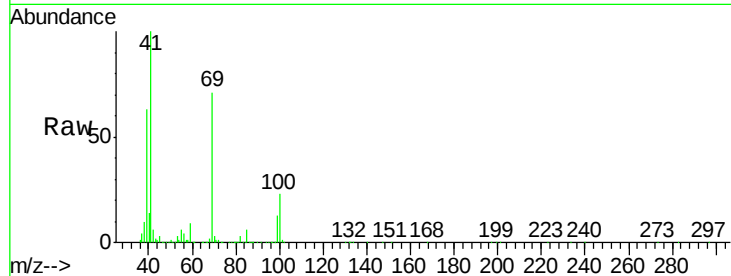
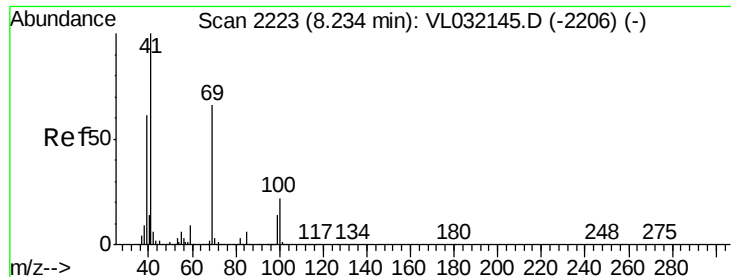
MMDadoda
7/3/2018 5:17:05 PM



#42
Bromodichloromethane
Concen: 9.49 ppbv
RT: 8.02 min Scan# 2155
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.6	79.0
127	7.2	6.5	9.7





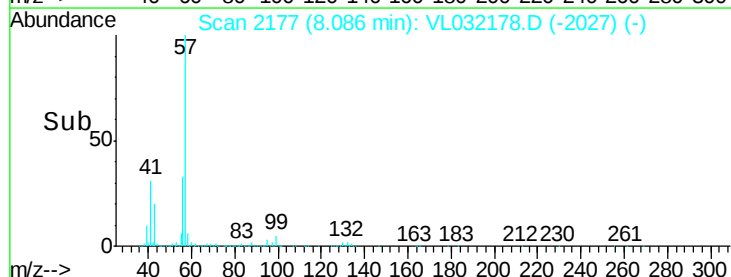
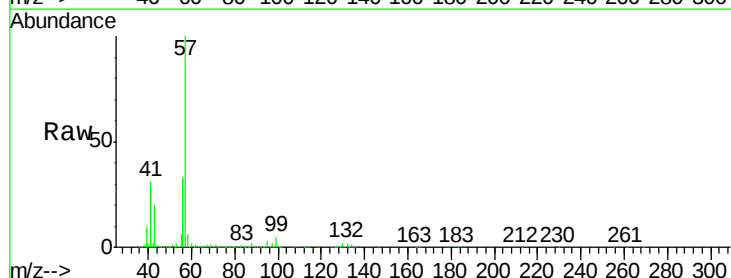
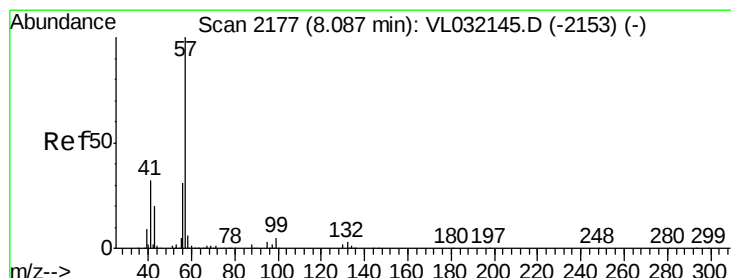
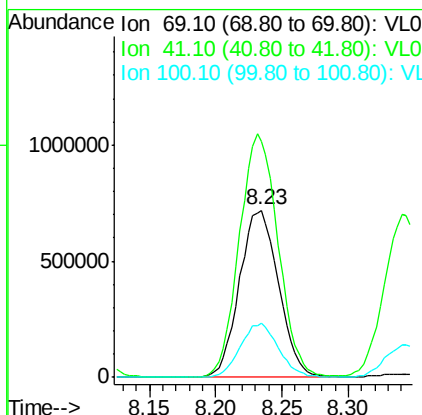
#43
Methvl Methacrilate
Concen: 9.61 ppbv
RT: 8.23 min Scan# 2223
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tot Ion: 69 Resp: 1480499
Ion Ratio Lower Upper
69 100
41 143.8 118.2 177.4
100 31.7 27.4 41.2

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

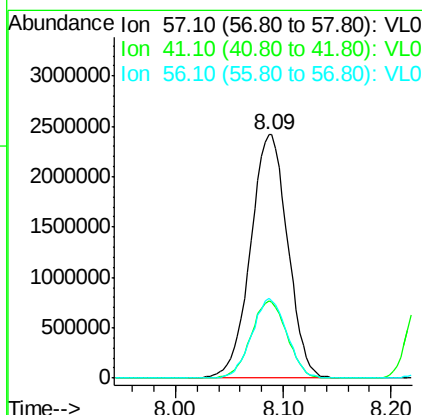
Manual Integrations
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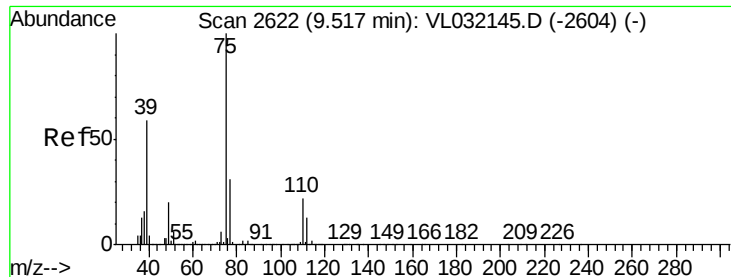
MMDadoda
7/3/2018 5:17:05 PM



#44
2,2,4-Trimethylpentane
Concen: 8.87 ppbv
RT: 8.09 min Scan# 2177
Delta R.T. -0.02 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion: 57 Resp: 5768761
Ion Ratio Lower Upper
57 100
41 30.8 24.3 36.5
56 31.3 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 9.34 ppbv

RT: 9.51 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 75 Resp: 1783991

Ion Ratio Lower Upper

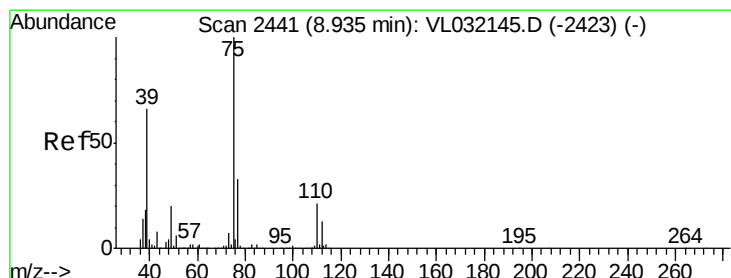
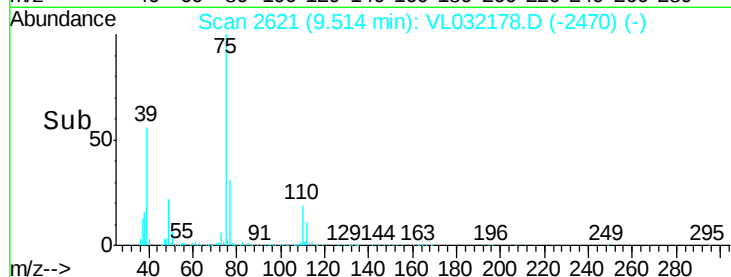
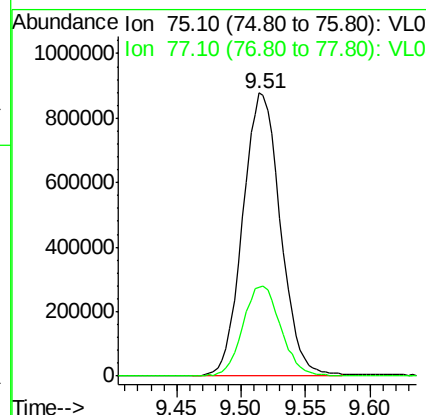
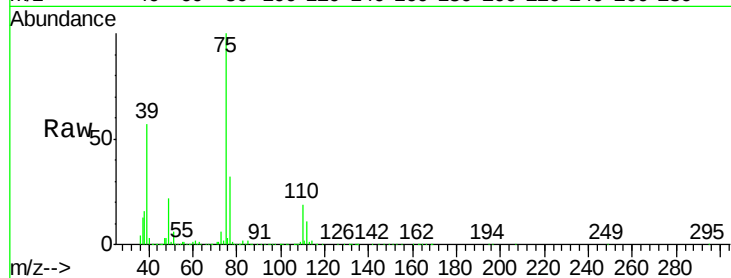
75 100

77 31.5 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 9.24 ppbv

RT: 8.94 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

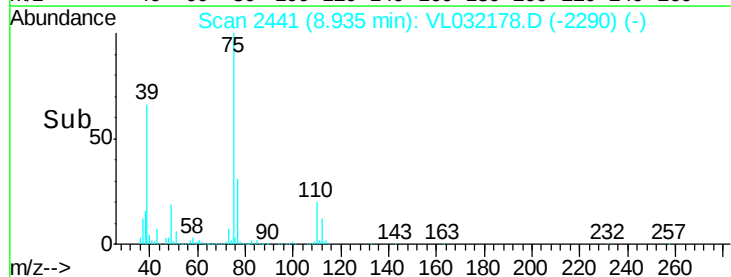
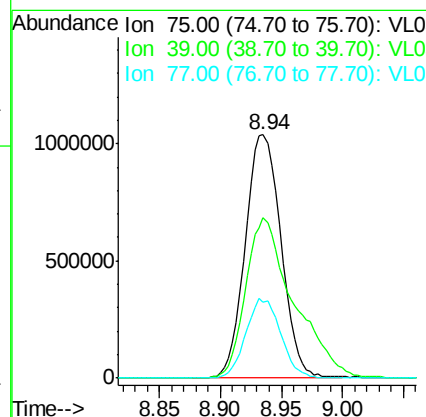
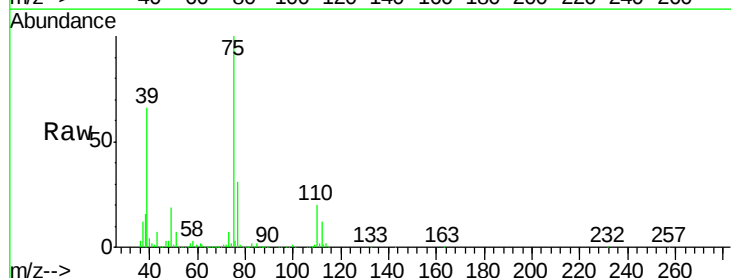
Tgt Ion: 75 Resp: 2107521

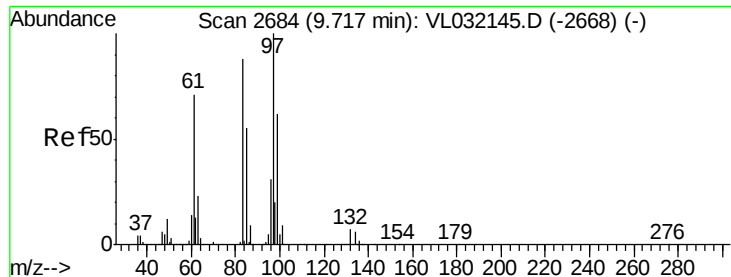
Ion Ratio Lower Upper

75 100

39 65.7 51.9 77.9

77 31.3 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 8.96 ppbv

RT: 9.72 min Scan# 2684

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 97 Resp: 1364876

Ion Ratio Lower Upper

97 100

83 86.3 71.0 106.4

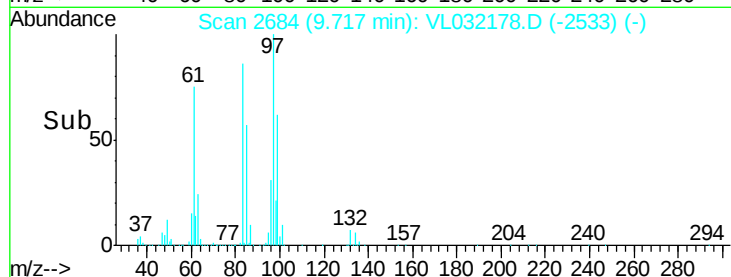
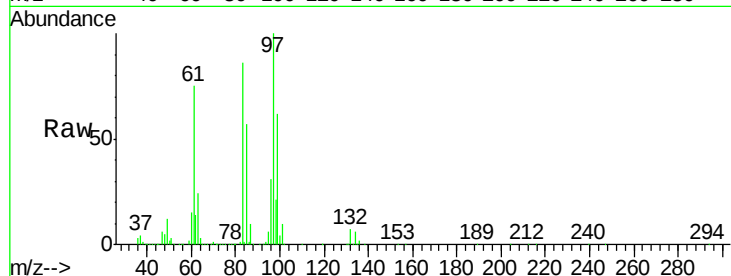
85 56.6 44.2 66.4

99 61.6 49.2 73.8

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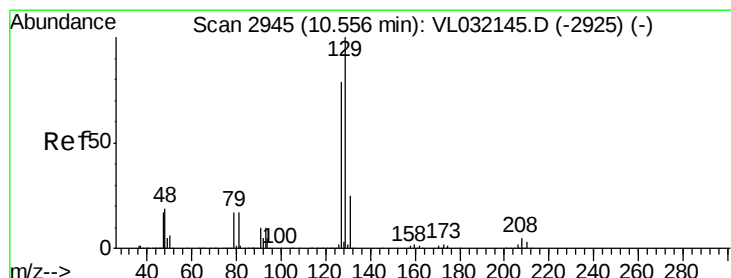
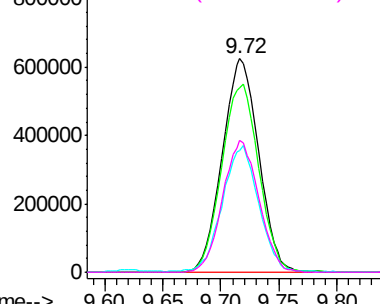


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 8.94 ppbv

RT: 10.56 min Scan# 2946

Delta R.T. -0.01 min

Lab File: VL032178.D

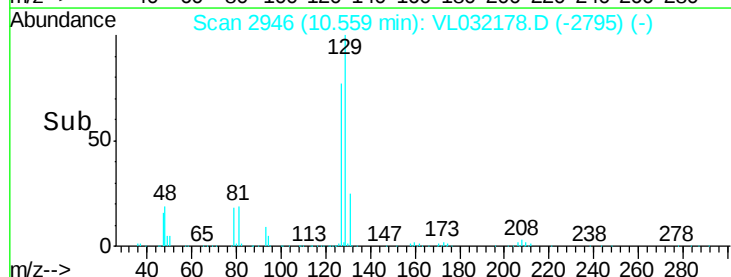
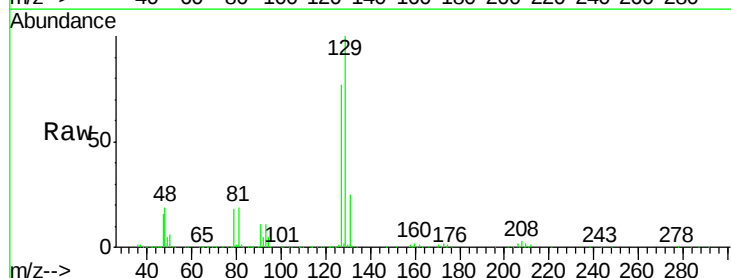
Acq: 2 Jul 2018 12:26

Tgt Ion: 129 Resp: 2109435

Ion Ratio Lower Upper

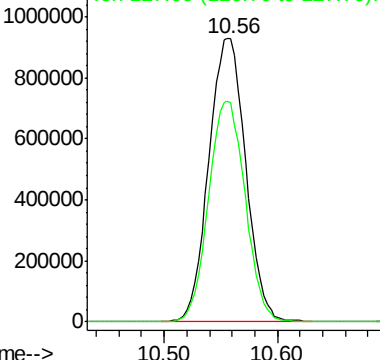
129 100

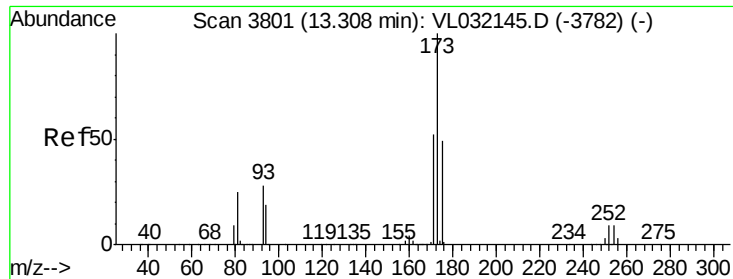
127 77.5 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





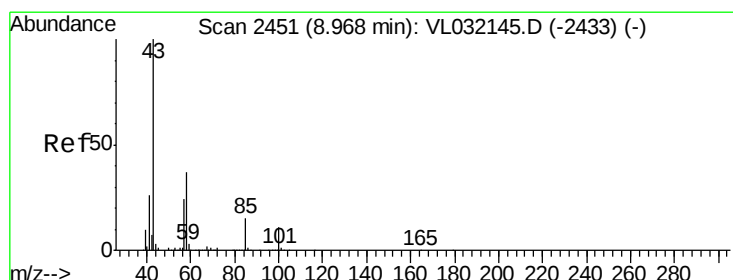
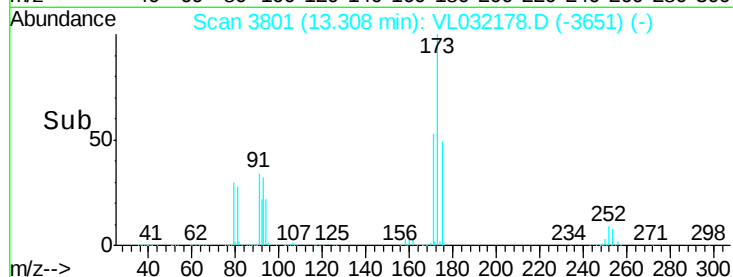
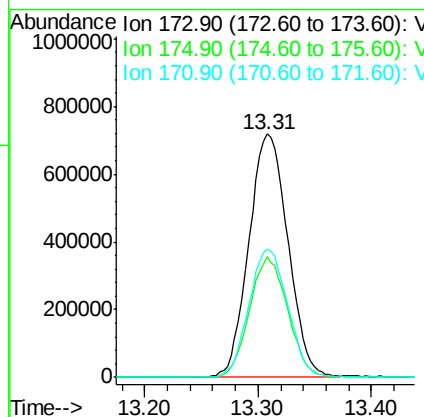
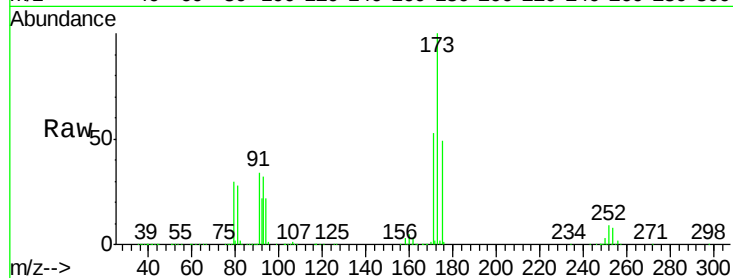
#49
Bromoform
Concen: 8.73 ppbv
RT: 13.31 min Scan# 3801
Delta R.T. -0.02 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	39.4	59.0
171	52.6	41.8	62.8

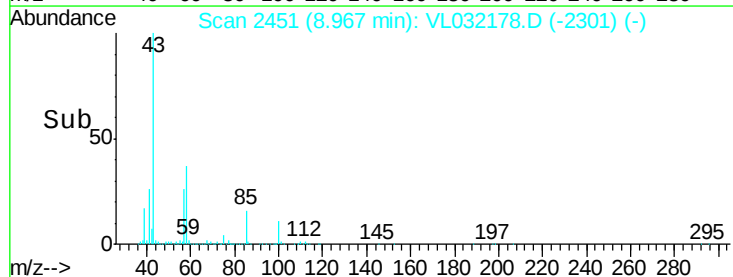
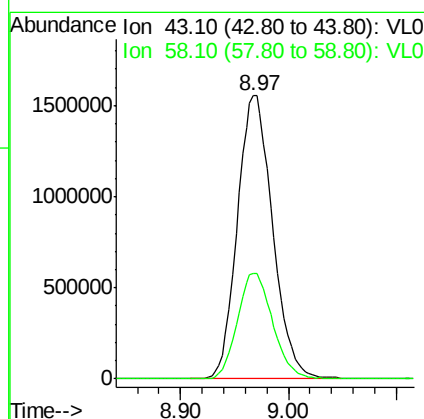
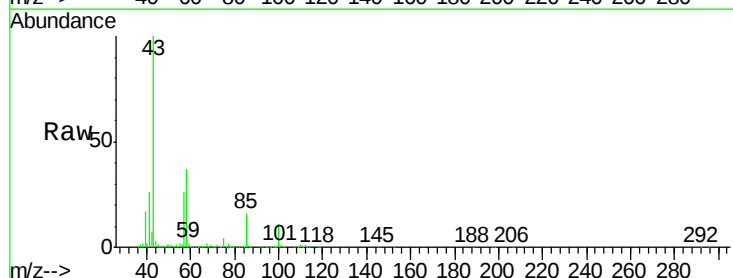
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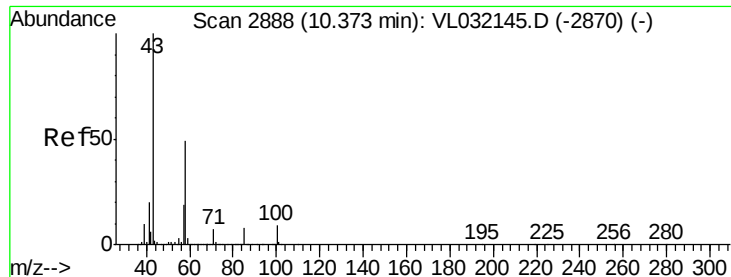
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 8.85 ppbv
RT: 8.97 min Scan# 2451
Delta R.T. -0.02 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.8	44.6





#51

2-Hexanone

Concen: 9.06 ppbv

RT: 10.37 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

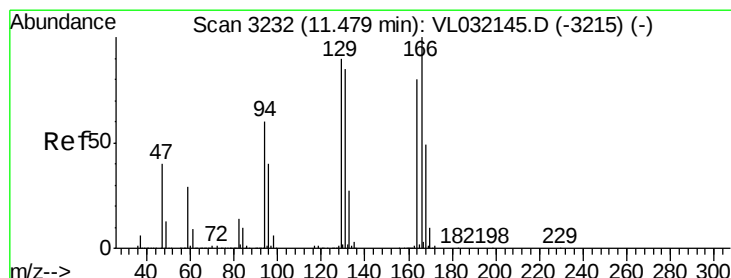
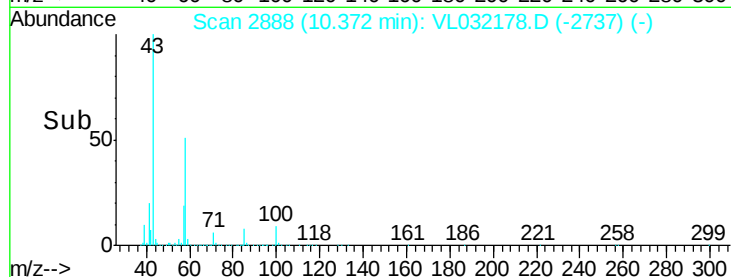
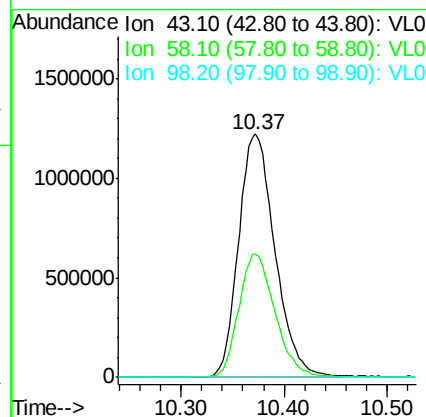
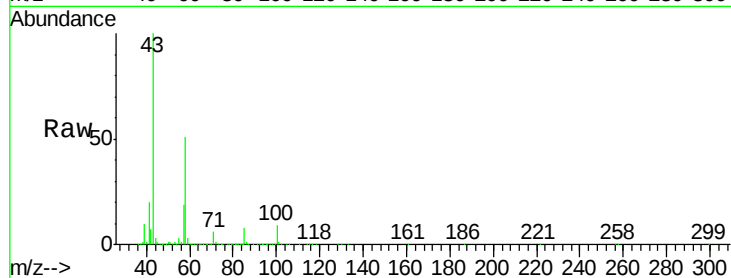
ClientSampleId :

VL0702ABS01

Tot Ion:	43	Resp:	2999267
Ion	Ratio	Lower	Upper
43	100		
58	50.7	40.6	60.8
98	0.1	0.1	0.1

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#52

Tetrachloroethene

Concen: 7.69 ppbv

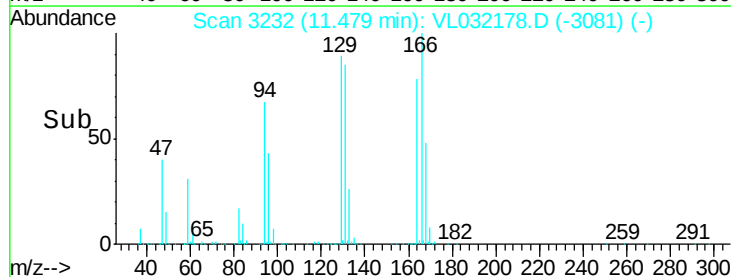
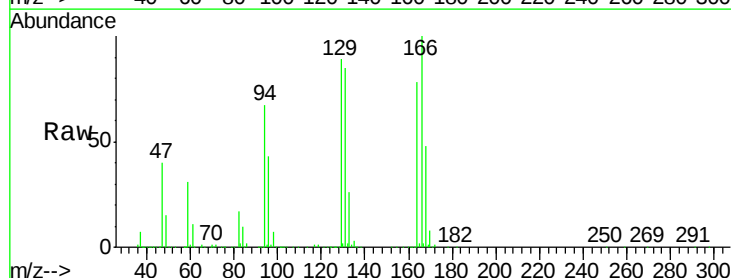
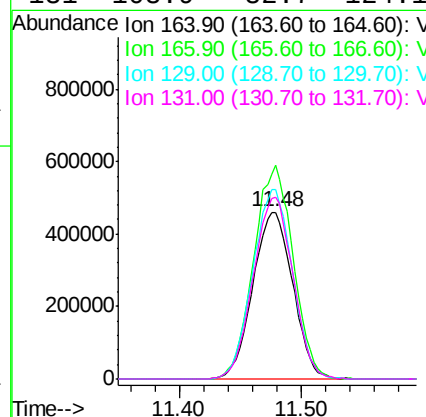
RT: 11.48 min Scan# 3232

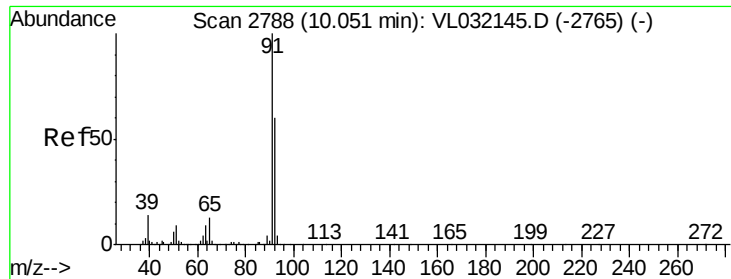
Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion:	164	Resp:	1039097
Ion	Ratio	Lower	Upper
164	100		
166	128.1	100.6	151.0
129	113.9	84.0	126.0
131	108.9	82.7	124.1





#53

Toluene

Concen: 8.67 ppbv

RT: 10.05 min Scan# 2788

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 91 Resp: 3898000

Ion Ratio Lower Upper

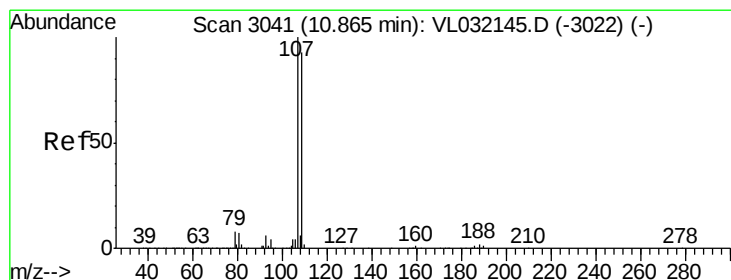
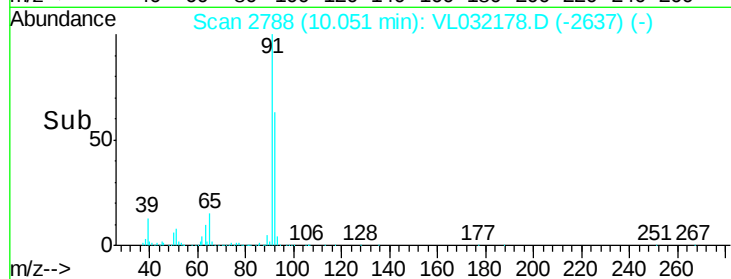
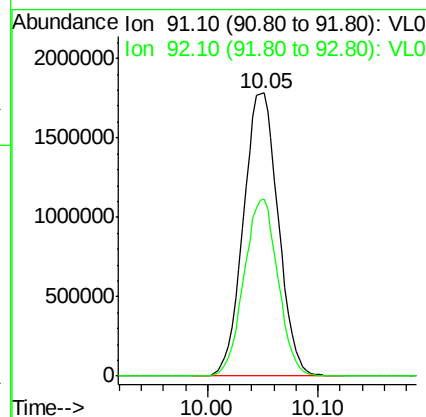
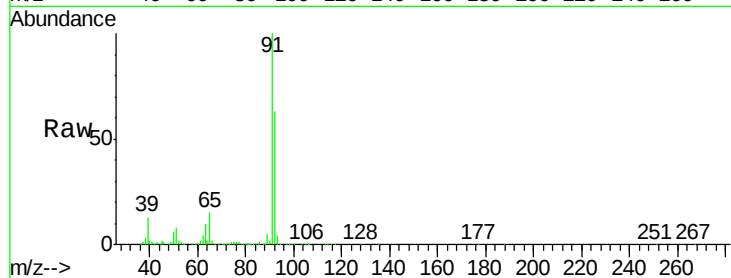
91 100

92 61.3 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 8.79 ppbv

RT: 10.87 min Scan# 3042

Delta R.T. -0.01 min

Lab File: VL032178.D

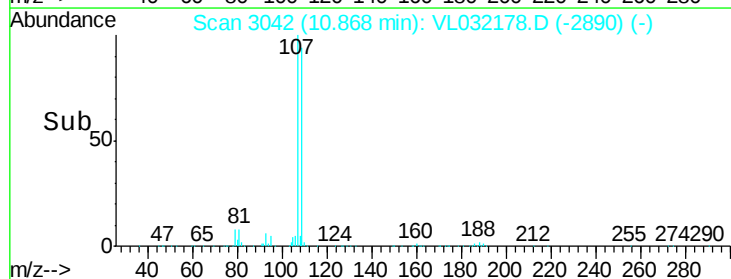
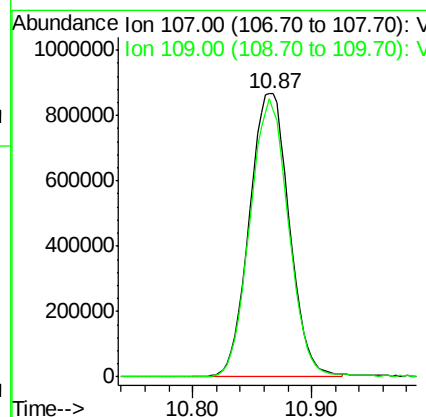
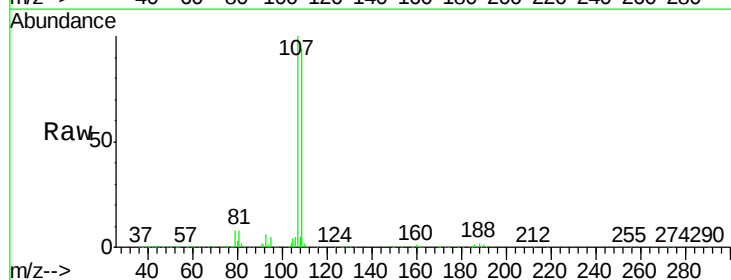
Acq: 2 Jul 2018 12:26

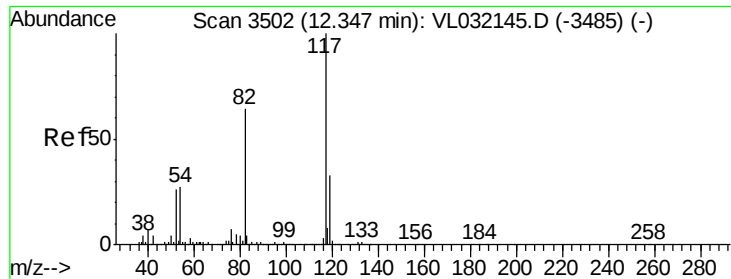
Tgt Ion: 107 Resp: 2014821

Ion Ratio Lower Upper

107 100

109 94.5 75.0 112.4





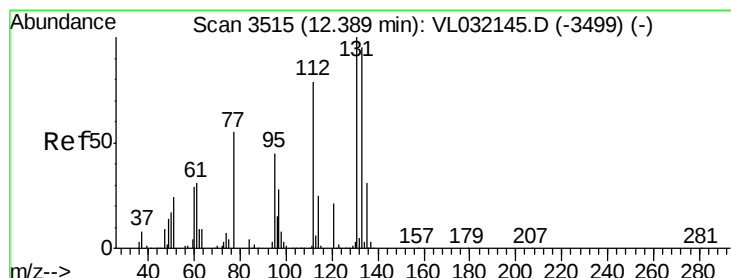
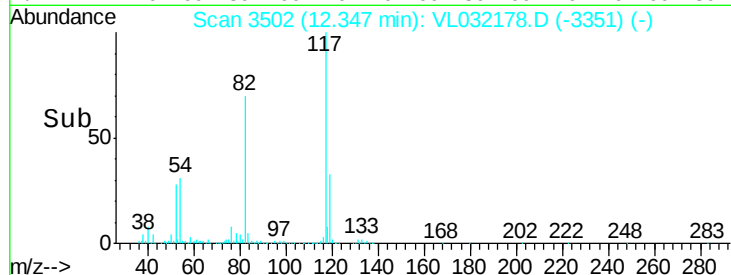
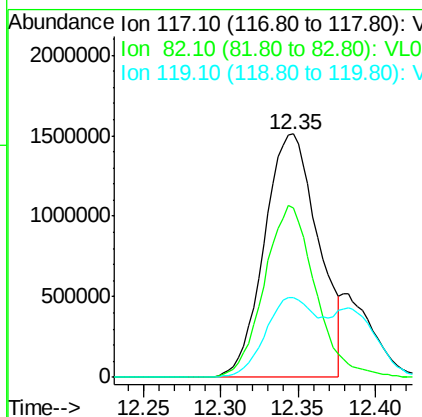
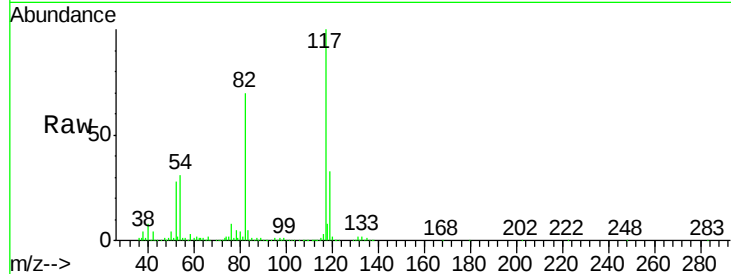
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.35 min Scan# 3502
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion:117 Resp: 3664626
Ion Ratio Lower Upper
117 100
82 67.3 47.8 71.8
119 31.1 43.3 64.9#

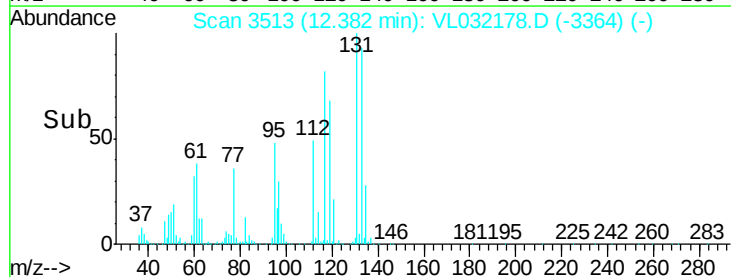
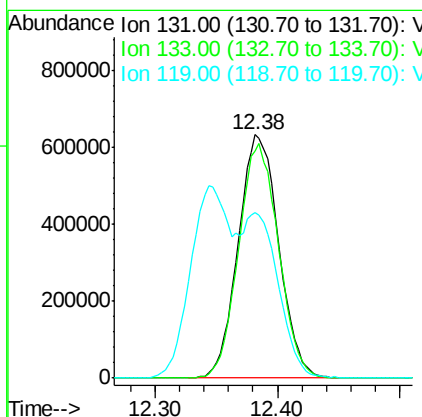
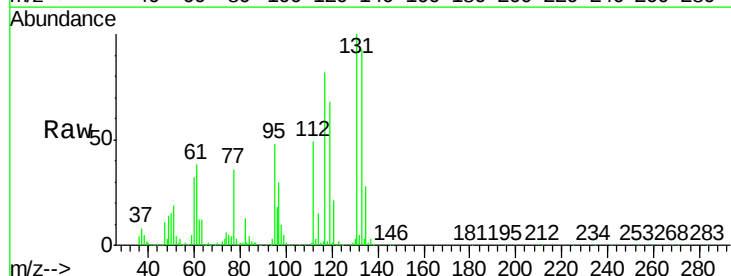
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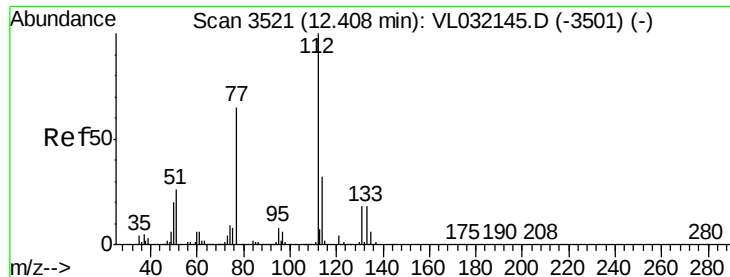
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.83 ppbv
RT: 12.38 min Scan# 3513
Delta R.T. -0.02 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion:131 Resp: 1444490
Ion Ratio Lower Upper
131 100
133 95.4 75.5 113.3
119 141.7 118.4 177.6





#57

Chlorobenzene

Concen: 8.90 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:112 Resp: 2823864

Ion Ratio Lower Upper

112 100

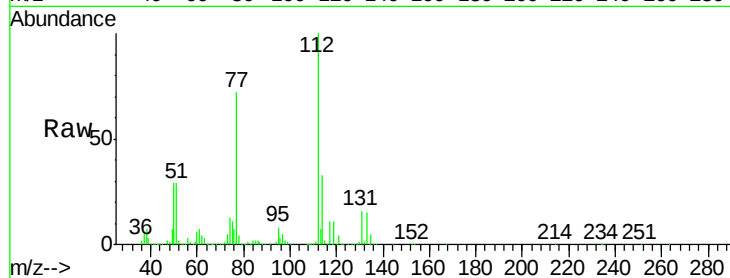
77 71.8 52.6 78.8

114 32.6 27.9 34.1

Manual Integrations
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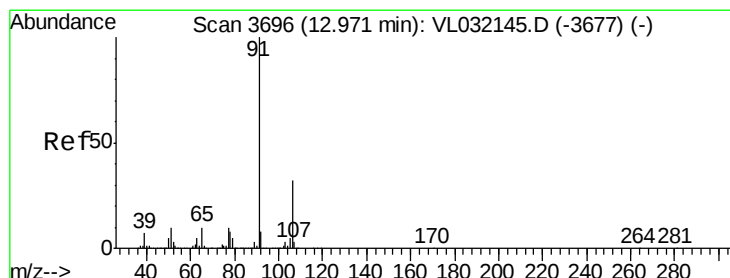
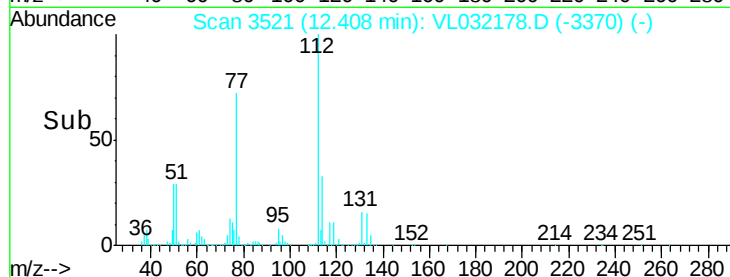
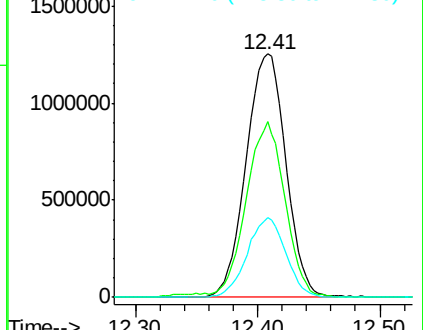
7/3/2018 5:17:05 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.01 ppbv

RT: 12.97 min Scan# 3695

Delta R.T. -0.02 min

Lab File: VL032178.D

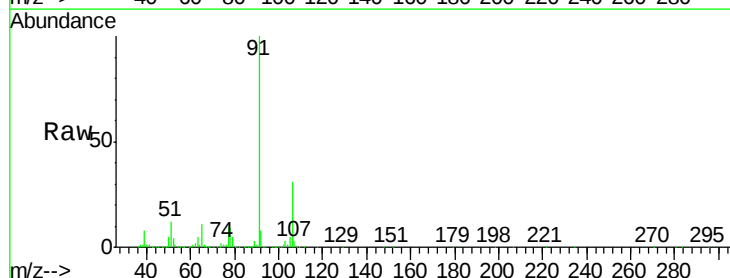
Acq: 2 Jul 2018 12:26

Tgt Ion: 91 Resp: 5321654

Ion Ratio Lower Upper

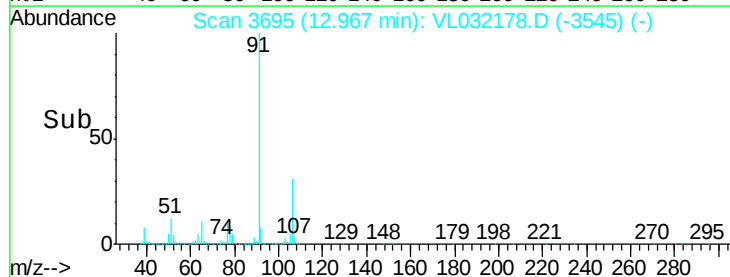
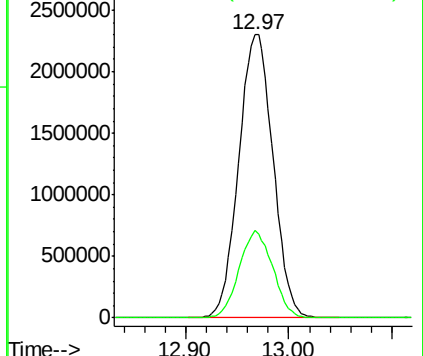
91 100

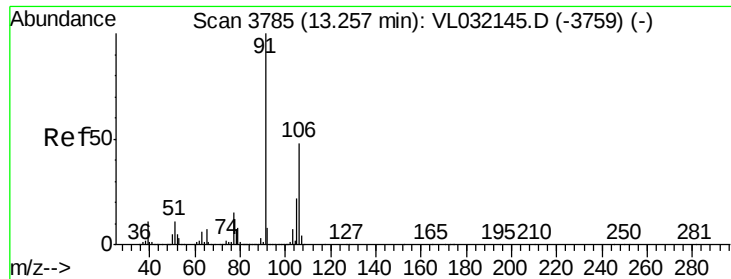
106 30.9 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 17.89 ppbv m

RT: 13.26 min Scan# 3785

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 91 Resp: 8469061

Ion Ratio Lower Upper

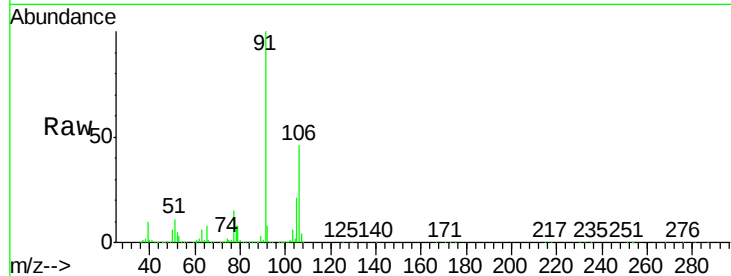
91 100

106 0.0 38.6 58.0#

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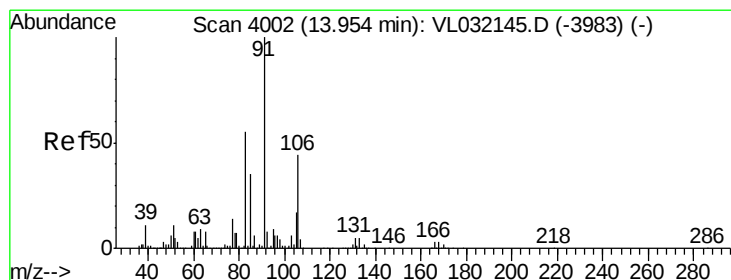
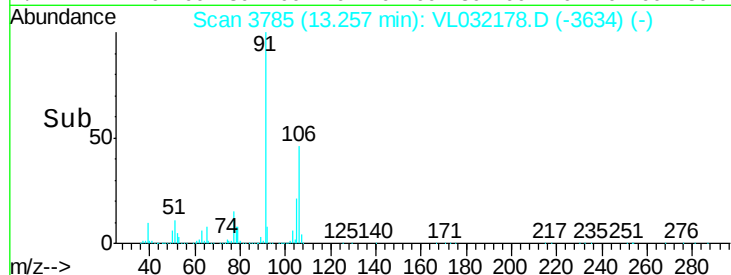
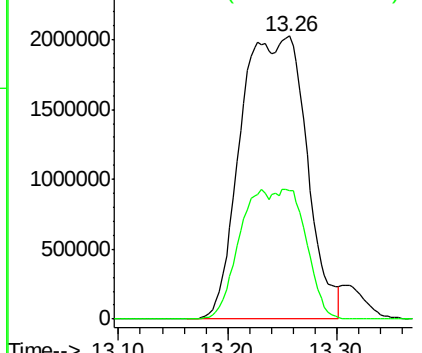
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 8.76 ppbv

RT: 13.96 min Scan# 4003

Delta R.T. -0.01 min

Lab File: VL032178.D

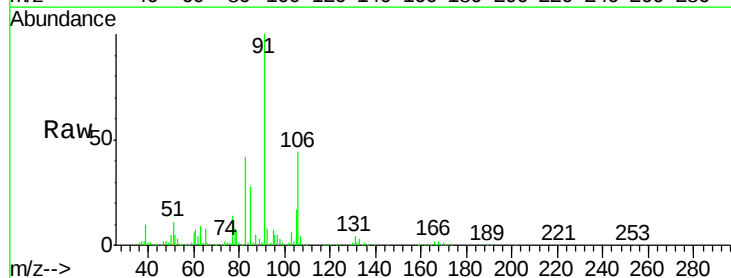
Acq: 2 Jul 2018 12:26

Tgt Ion: 91 Resp: 4137423

Ion Ratio Lower Upper

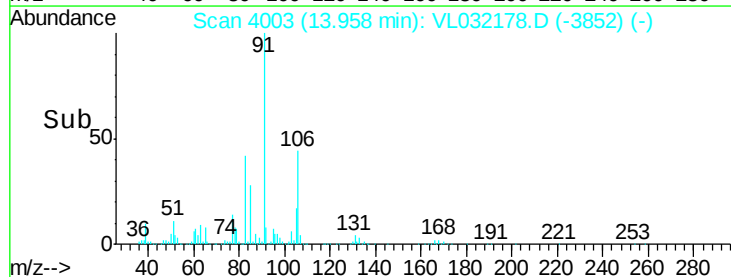
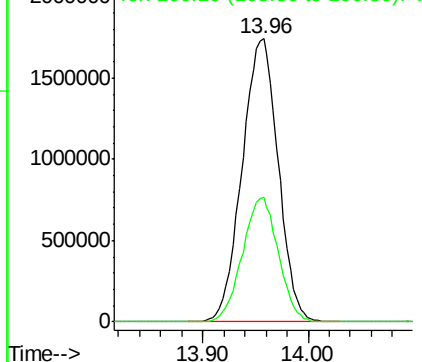
91 100

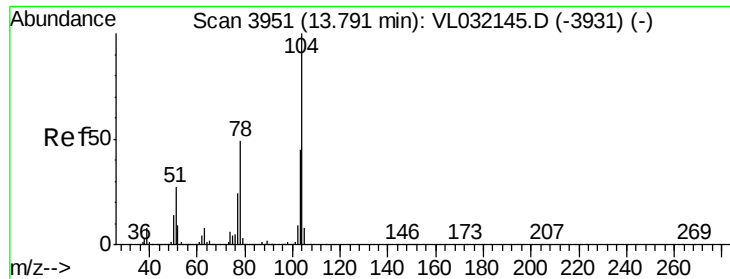
106 43.7 23.3 69.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 8.85 ppbv

RT: 13.79 min Scan# 3951

Delta R.T. -0.01 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:104 Resp: 3425034

Ion Ratio Lower Upper

104 100

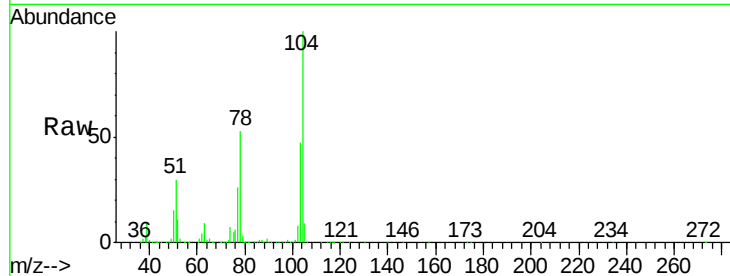
78 53.0 37.9 56.9

103 47.0 36.6 55.0

Manual Integrations
APPROVED

MMDadoda

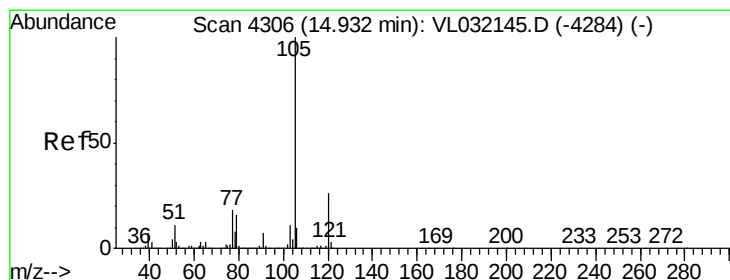
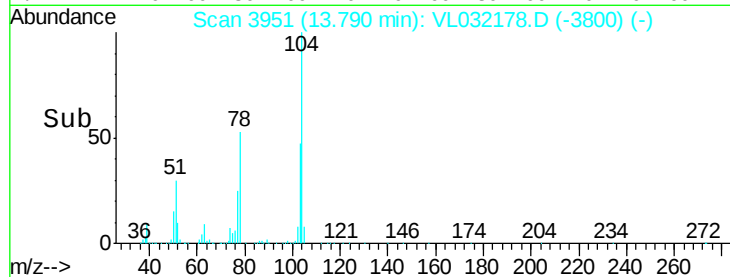
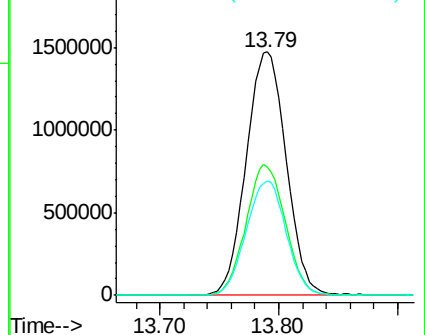
7/3/2018 5:17:05 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.20 ppbv

RT: 14.93 min Scan# 4305

Delta R.T. -0.02 min

Lab File: VL032178.D

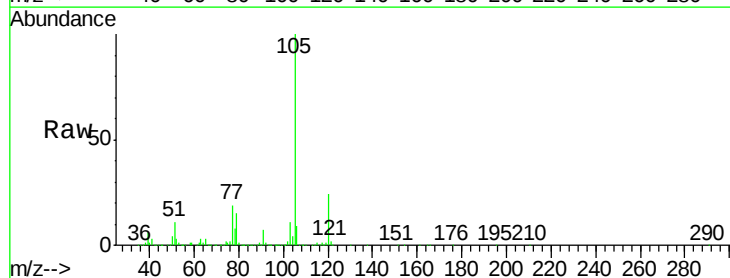
Acq: 2 Jul 2018 12:26

Tgt Ion:105 Resp: 5953171

Ion Ratio Lower Upper

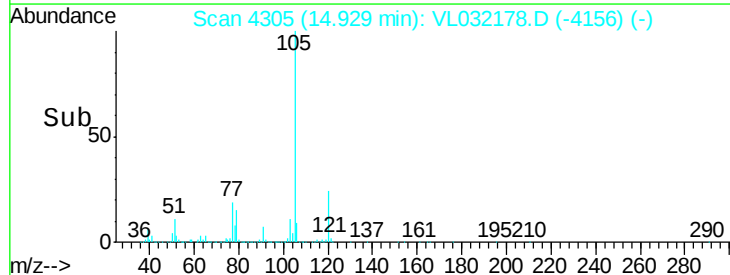
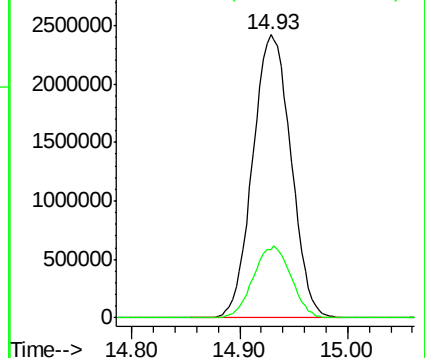
105 100

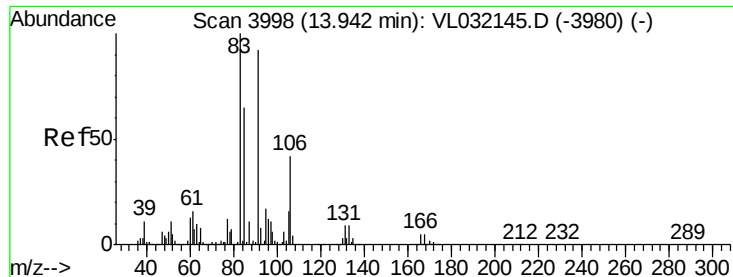
120 25.1 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





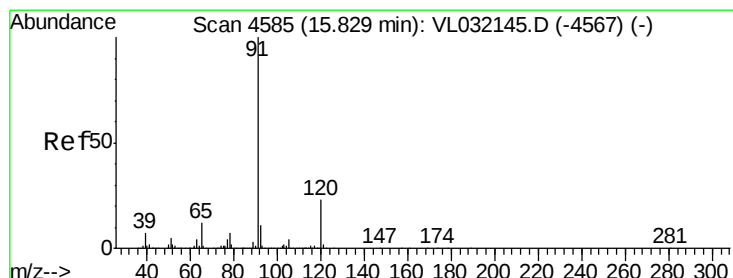
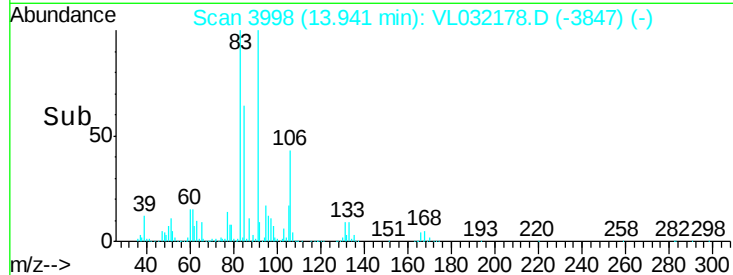
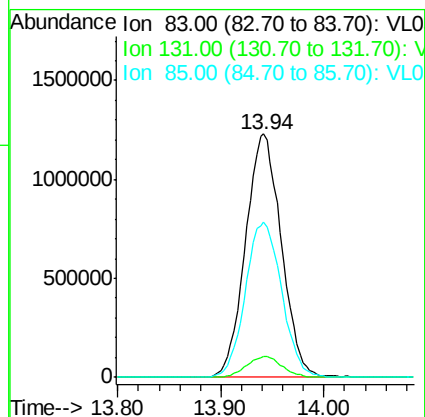
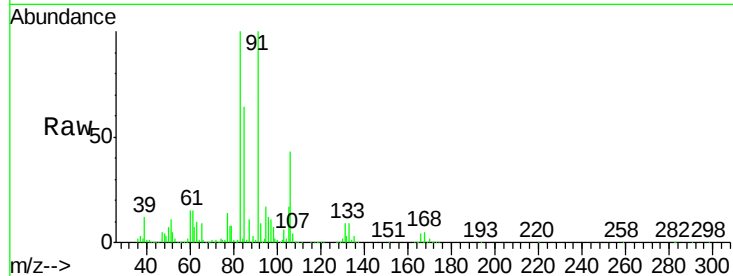
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.11 ppbv
 RT: 13.94 min Scan# 3998
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	83	Resp	2965242
Ion Ratio	100	Lower	Upper
83	100		
131	8.6	4.6	13.8
85	64.8	32.4	97.2

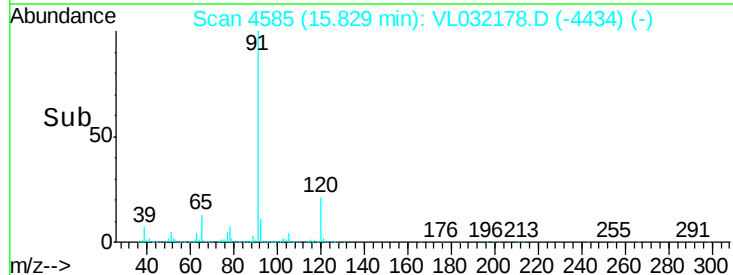
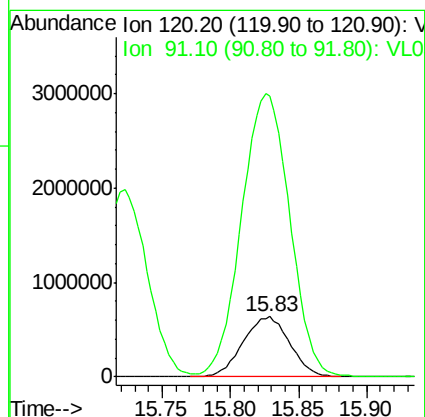
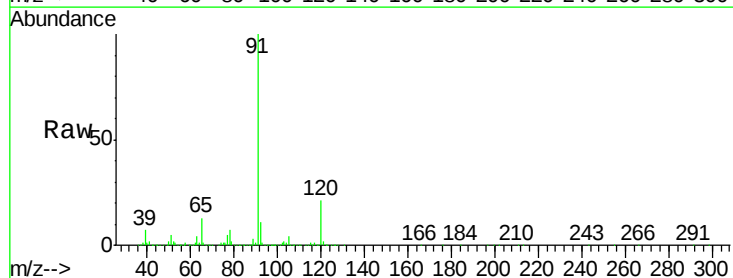
Manual Integrations
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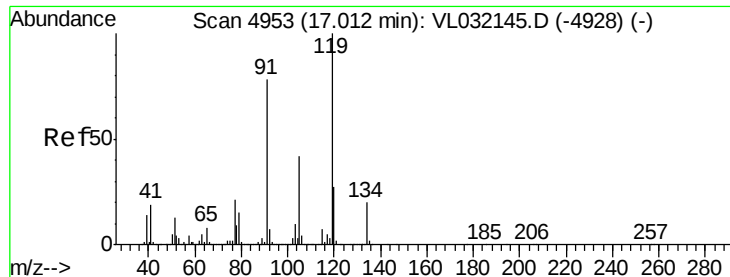
MMDadoda
 7/3/2018 5:17:05 PM



#64
 n-propylbenzene
 Concen: 8.05 ppbv
 RT: 15.83 min Scan# 4585
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion	120	Resp	1512742
Ion Ratio	100	Lower	Upper
120	100		
91	487.7	357.4	536.0





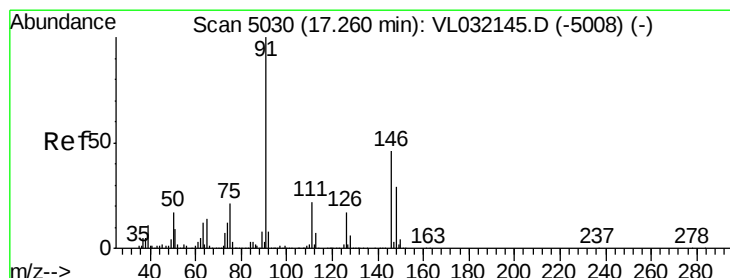
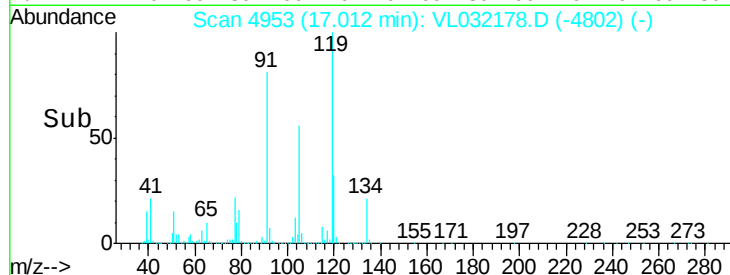
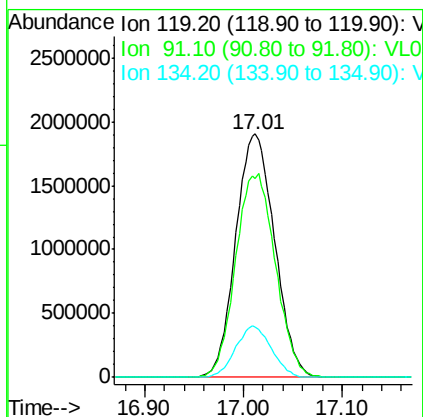
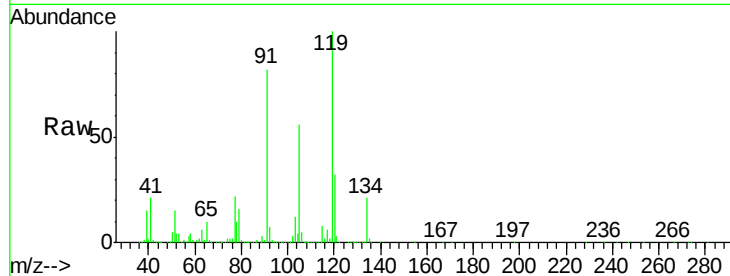
#65
tert-Butylbenzene
Concen: 8.14 ppbv
RT: 17.01 min Scan# 4953
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	85.9	62.2	93.2
134	19.6	16.2	24.2

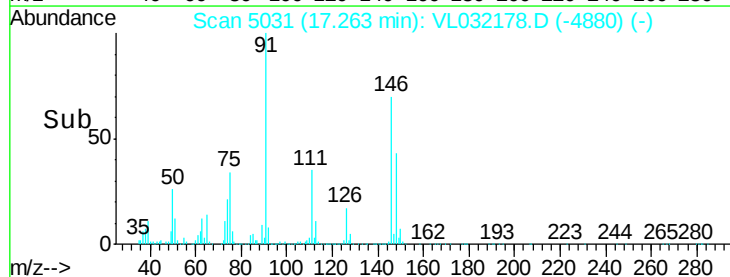
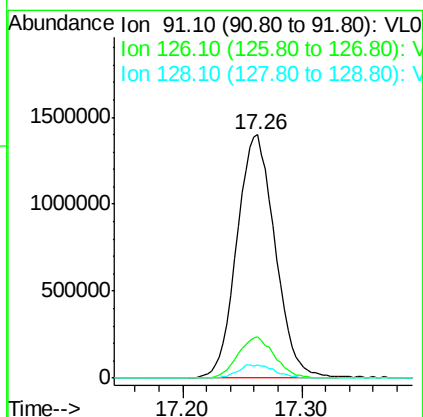
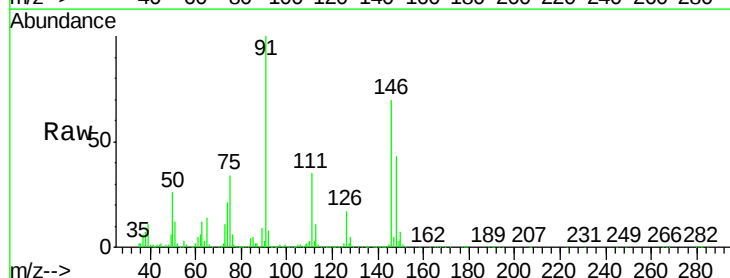
Manual Integrations
APPROVED

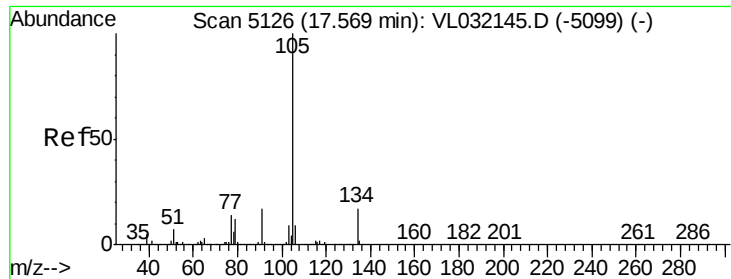
MMDadoda
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#66
Benzyl Chloride
Concen: 7.90 ppbv
RT: 17.26 min Scan# 5031
Delta R.T. -0.01 min
Lab File: VL032178.D
Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.5	15.7	23.5
128	5.3	5.2	7.8





#67

sec-Butylbenzene

Concen: 8.38 ppbv

RT: 17.56 min Scan# 5124

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:105 Resp: 7827128

Ion Ratio Lower Upper

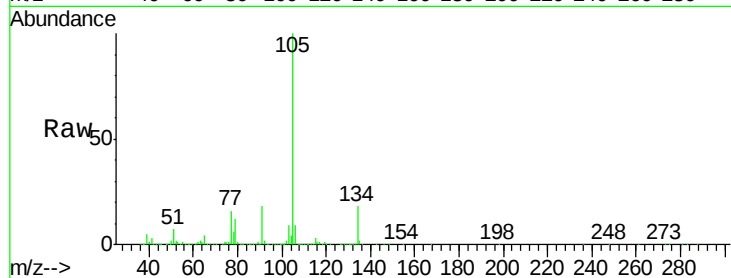
105 100

134 17.5 14.7 22.1

Manual Integrations
APPROVED

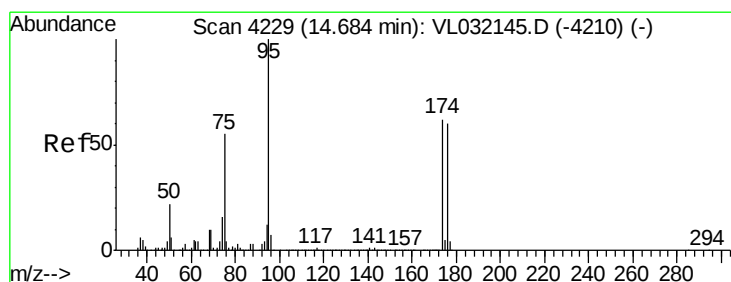
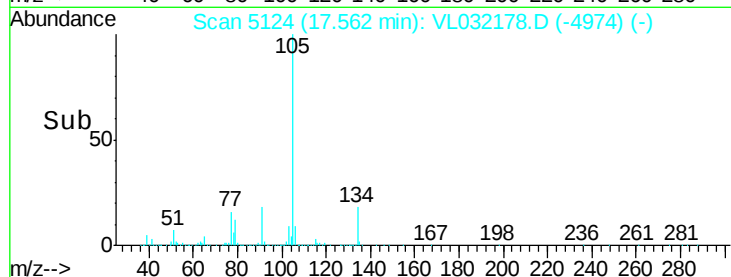
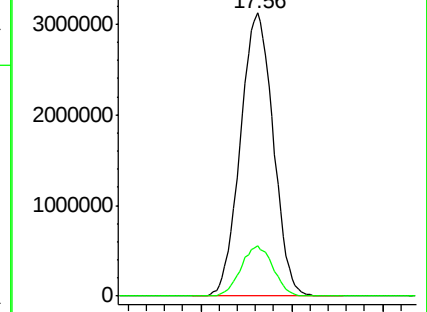
MMDadoda

7/3/2018 5:17:05 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.66 ppbv

RT: 14.68 min Scan# 4228

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

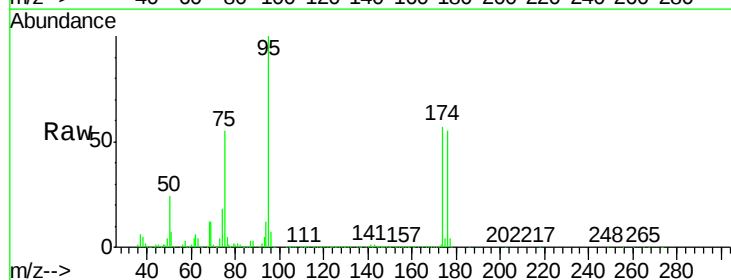
Tgt Ion: 95 Resp: 2704645

Ion Ratio Lower Upper

95 100

174 56.4 52.1 78.1

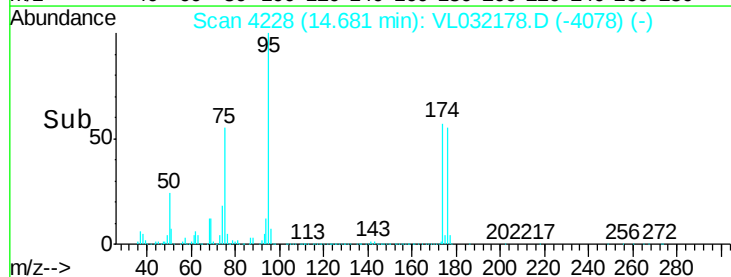
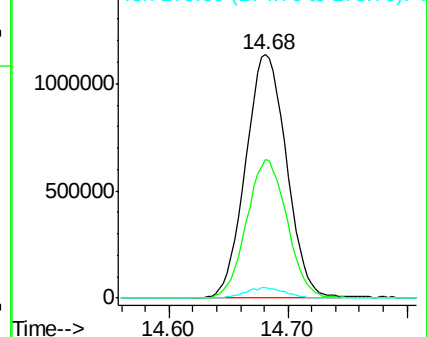
175 4.2 4.0 6.0

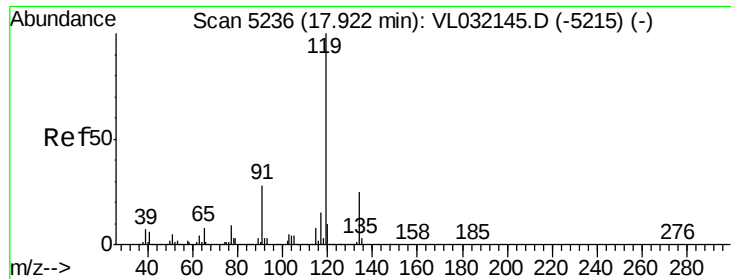


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





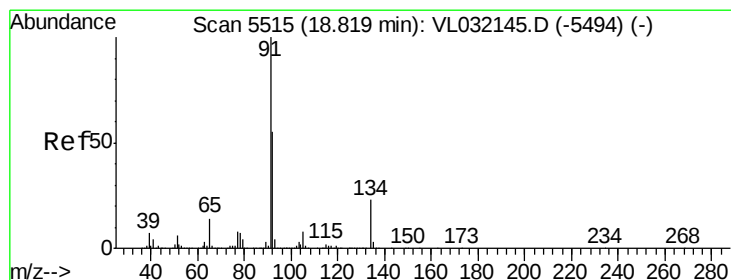
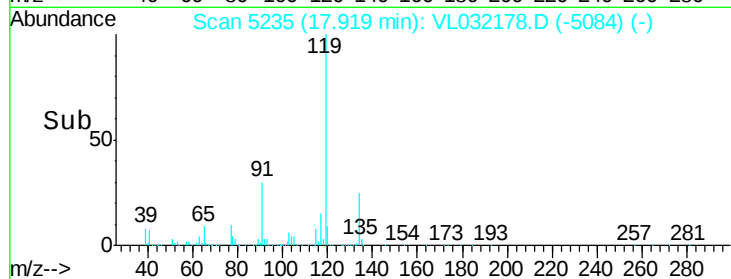
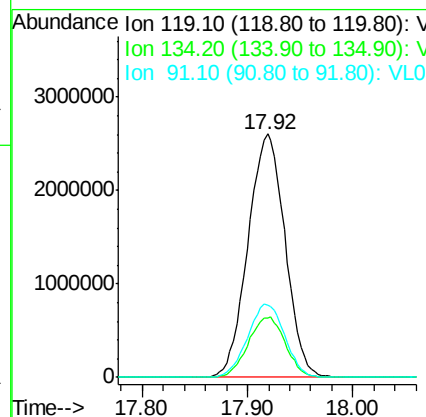
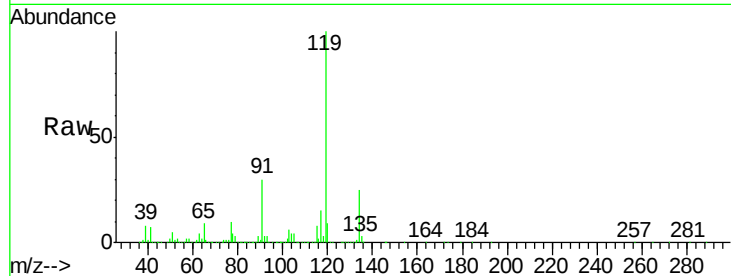
#69
 p-Isopropyltoluene
 Concen: 8.50 ppbv
 RT: 17.92 min Scan# 5235
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.7	31.1
91	30.2	21.8	32.8

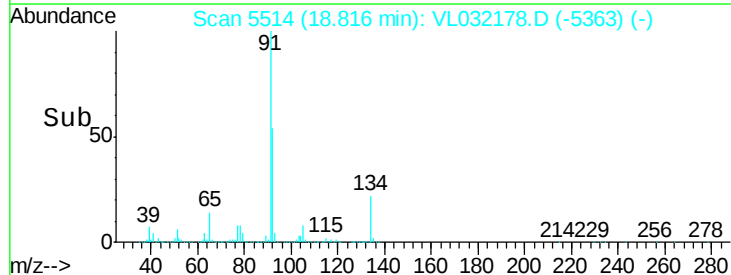
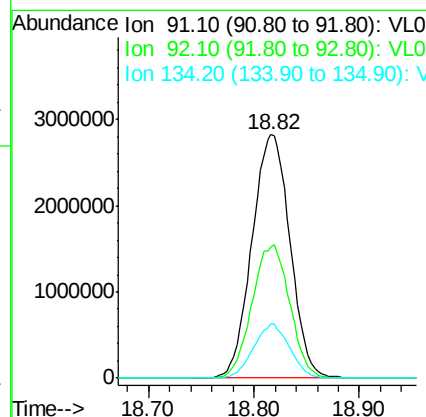
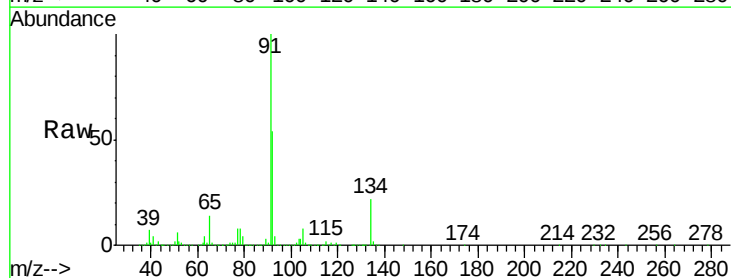
Manual Integrations
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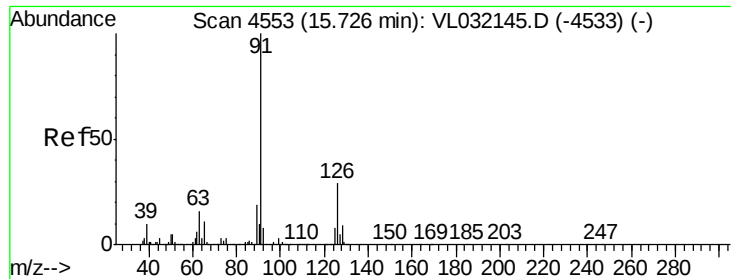
MMDadoda
 7/3/2018 5:17:05 PM



#70
 n-Butylbenzene
 Concen: 9.05 ppbv
 RT: 18.82 min Scan# 5514
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	43.7	65.5
134	21.3	18.9	28.3





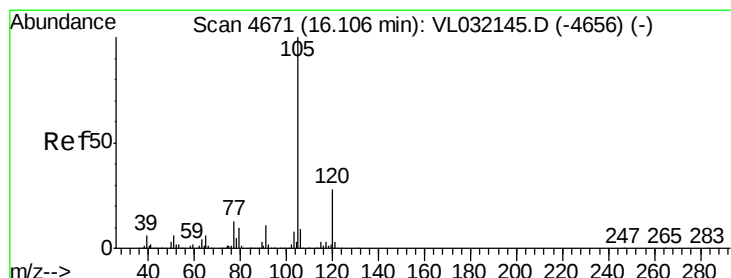
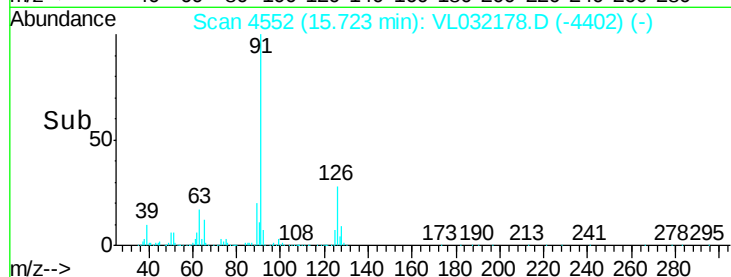
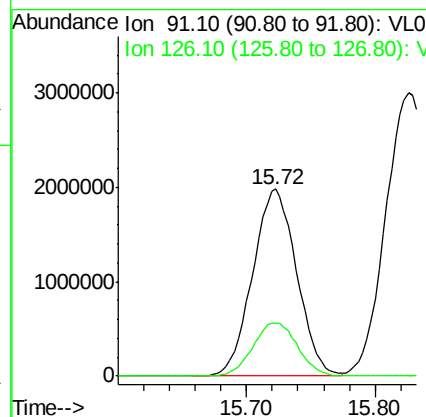
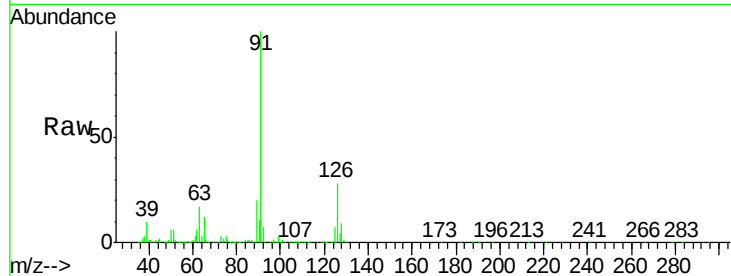
#71
 2-Chlorotoluene
 Concen: 8.41 ppbv
 RT: 15.72 min Scan# 4552
 Delta R.T. -0.02 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion: 91 Resp: 4702857
 Ion Ratio Lower Upper
 91 100
 126 29.1 12.8 51.0

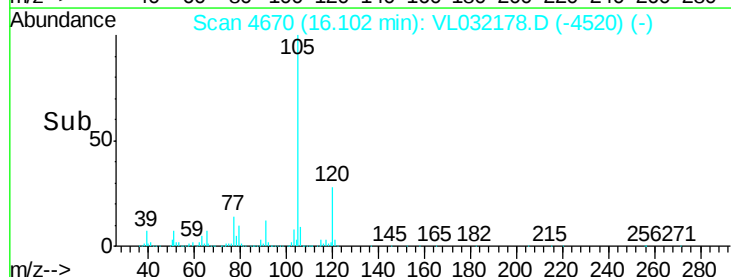
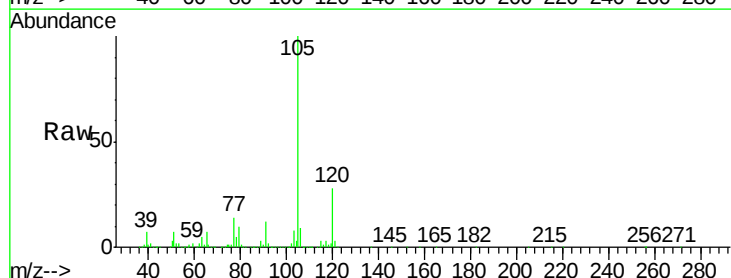
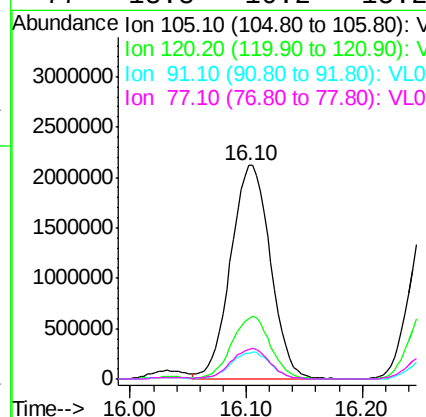
Manual Integrations
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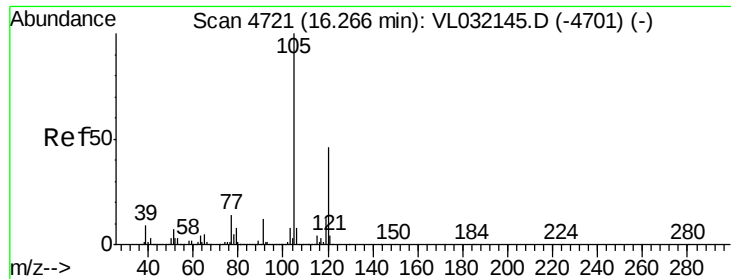
MMDadoda
 7/3/2018 5:17:05 PM



#72
 4-Ethyltoluene
 Concen: 8.27 ppbv
 RT: 16.10 min Scan# 4670
 Delta R.T. -0.02 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion: 105 Resp: 5043147
 Ion Ratio Lower Upper
 105 100
 120 28.5 24.3 36.5
 91 12.5 9.4 14.0
 77 13.8 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 8.39 ppbv

RT: 16.26 min Scan# 4719

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:105 Resp: 4818849

Ion Ratio Lower Upper

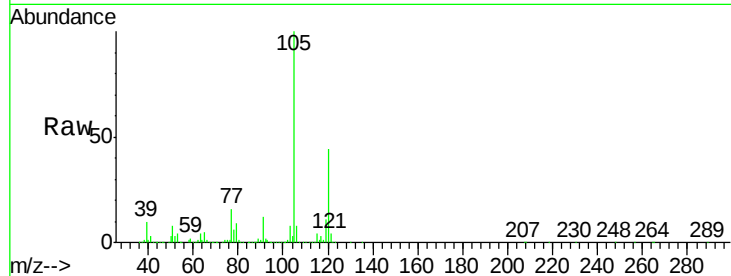
105 100

120 44.2 38.6 57.8

Manual Integrations
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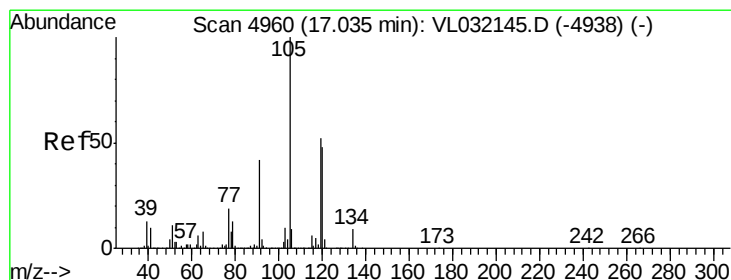
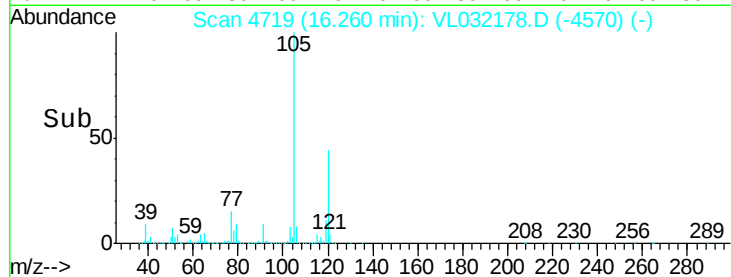
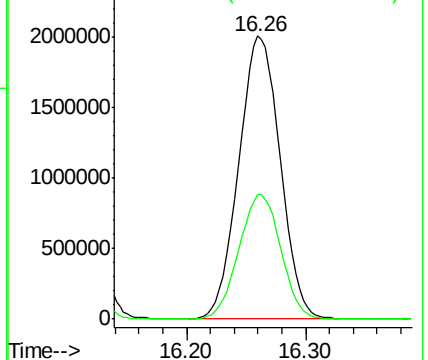
MMDadoda

7/3/2018 5:17:05 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.60 ppbv

RT: 17.03 min Scan# 4959

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion:105 Resp: 4988257

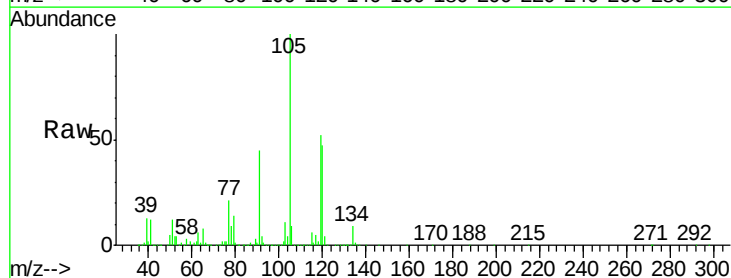
Ion Ratio Lower Upper

105 100

120 46.5 38.8 58.2

91 44.7 33.6 50.4

77 21.3 16.0 24.0

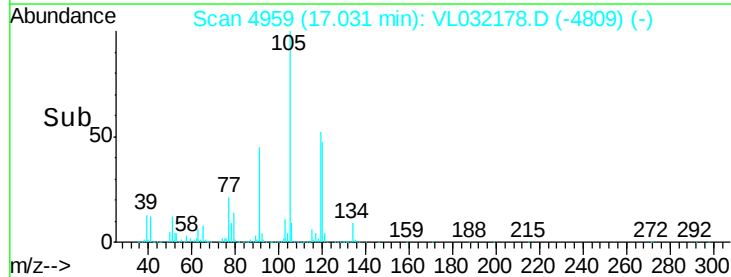
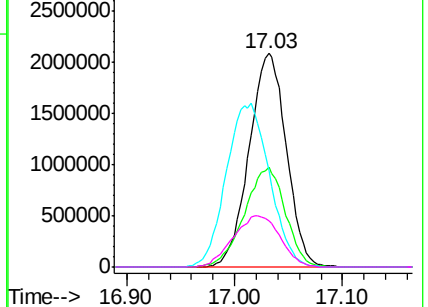


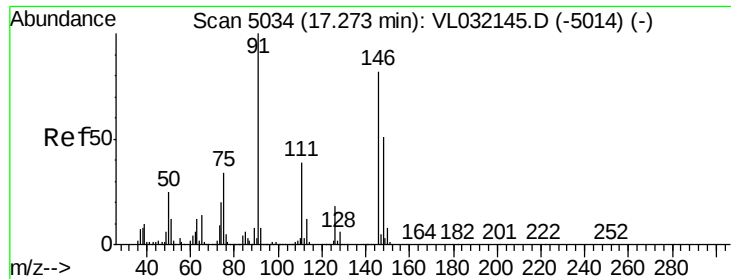
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.41 ppbv

RT: 17.27 min Scan# 5034

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

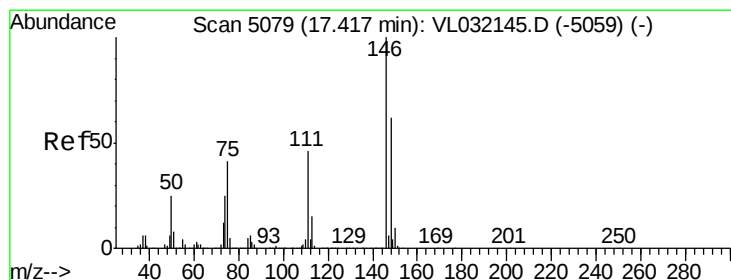
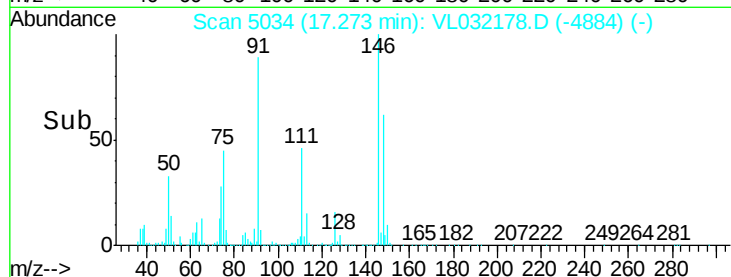
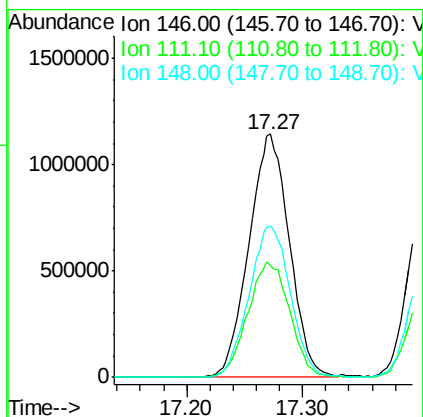
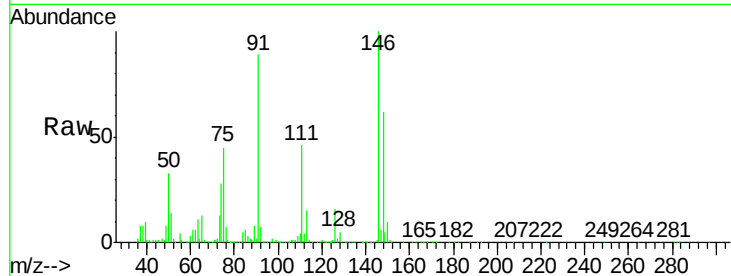
ClientSampleId :

VL0702ABS01

Tot Ion:	146	Resp:	2773897
Ion	Ratio	Lower	Upper
146	100		
111	49.2	22.9	68.8
148	63.7	31.7	95.1

Manual Integrations
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7/3/2018 5:17:05 PM



#76

1,4-Dichlorobenzene

Concen: 8.46 ppbv

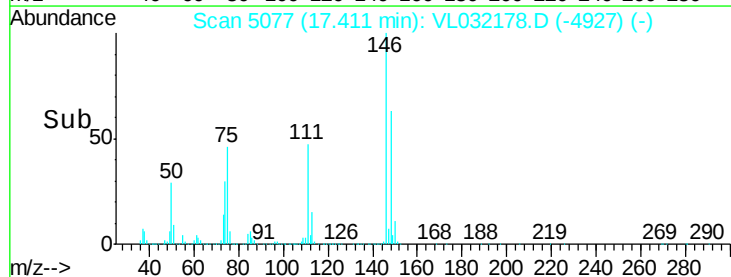
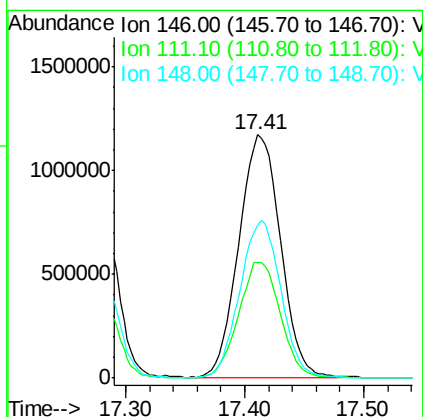
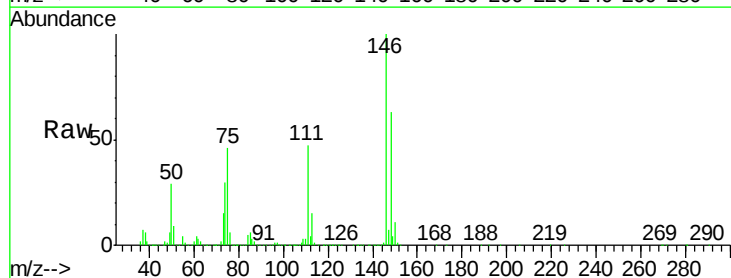
RT: 17.41 min Scan# 5077

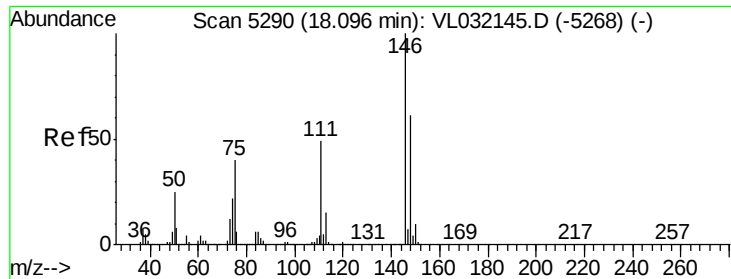
Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Tgt Ion:	146	Resp:	2829828
Ion	Ratio	Lower	Upper
146	100		
111	48.1	21.9	65.8
148	64.3	32.1	96.5





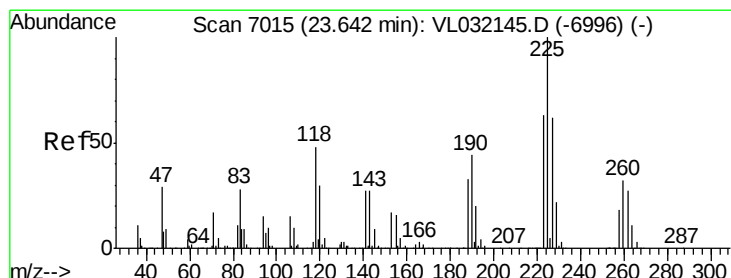
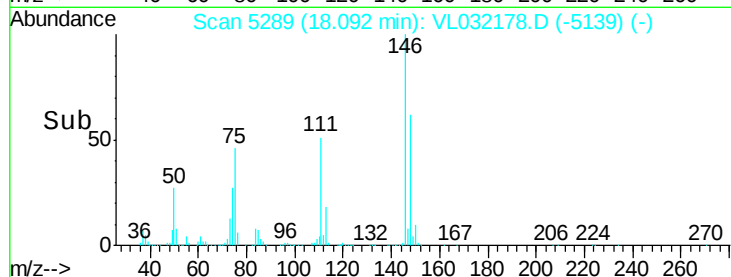
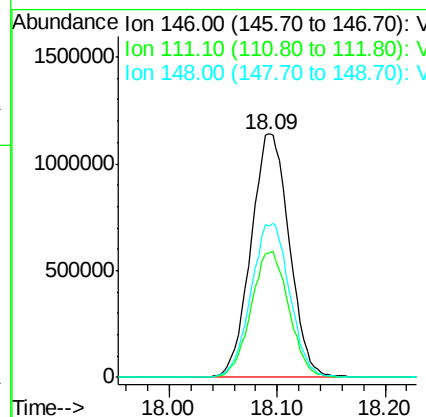
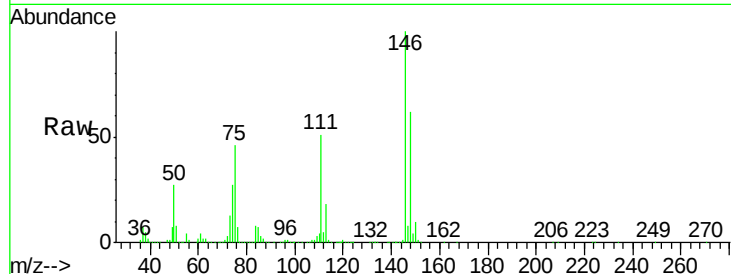
#77
 1,2-Dichlorobenzene
 Concen: 8.51 ppbv
 RT: 18.09 min Scan# 5289
 Delta R.T. -0.02 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion:146 Resp: 2805539
 Ion Ratio Lower Upper
 146 100
 111 51.2 23.4 70.3
 148 63.8 32.0 96.0

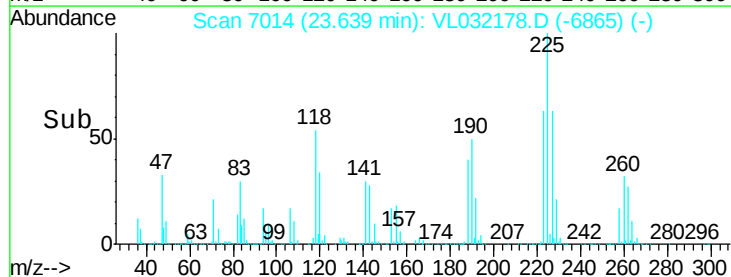
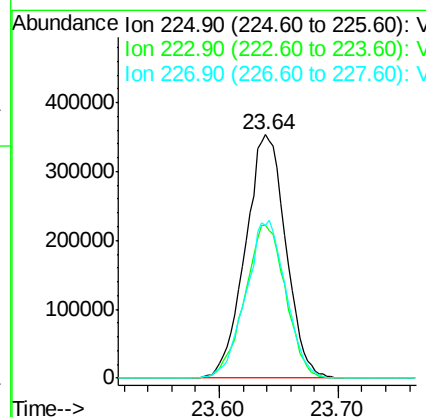
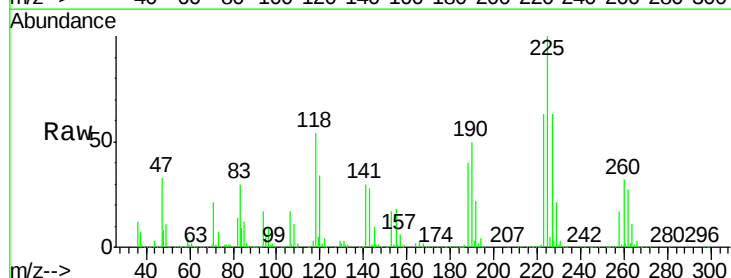
Manual Integrations
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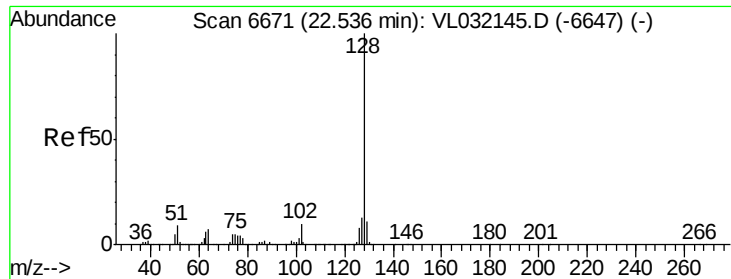
MMDadoda
 7/3/2018 5:17:05 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.24 ppbv
 RT: 23.64 min Scan# 7014
 Delta R.T. -0.02 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Tgt Ion:225 Resp: 830980
 Ion Ratio Lower Upper
 225 100
 223 63.4 51.0 76.4
 227 64.4 51.4 77.0





#79

Naphthalene

Concen: 8.93 ppbv

RT: 22.53 min Scan# 6670

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:128 Resp: 4706307

Ion Ratio Lower Upper

128 100

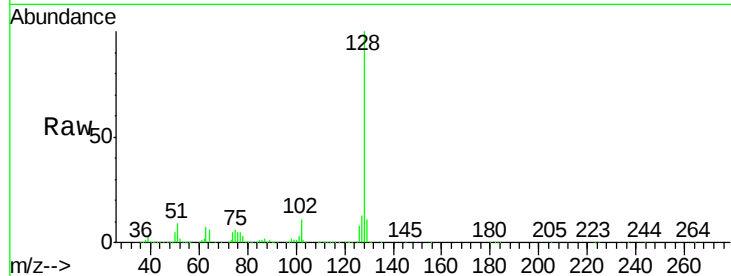
127 12.6 10.5 15.7

129 10.6 9.0 13.6

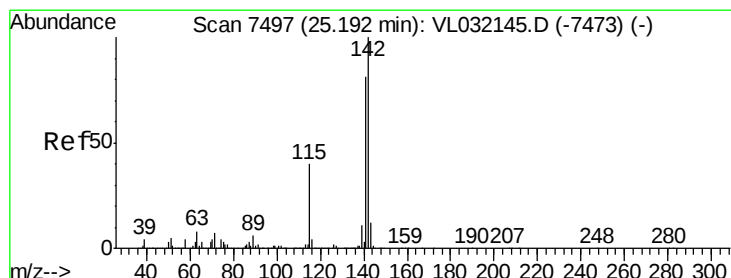
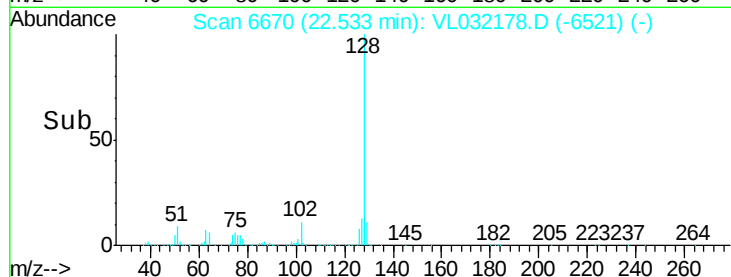
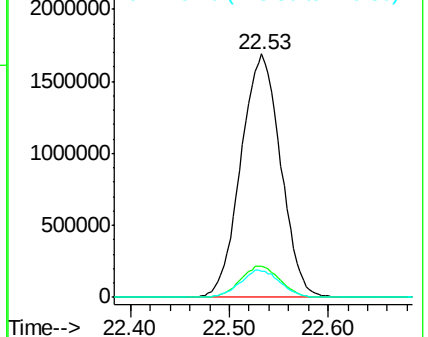
Manual Integrations
APPROVED

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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: 13.77 ppbv

RT: 25.19 min Scan# 7496

Delta R.T. -0.02 min

Lab File: VL032178.D

Acq: 2 Jul 2018 12:26

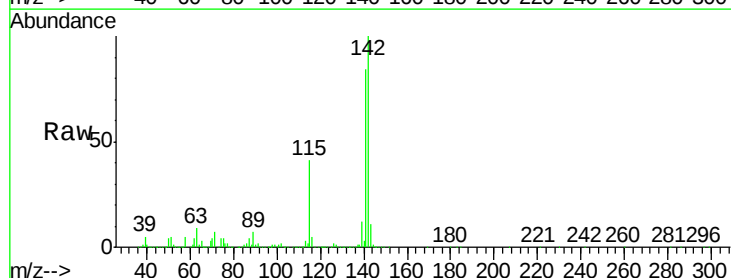
Tgt Ion:142 Resp: 2618456

Ion Ratio Lower Upper

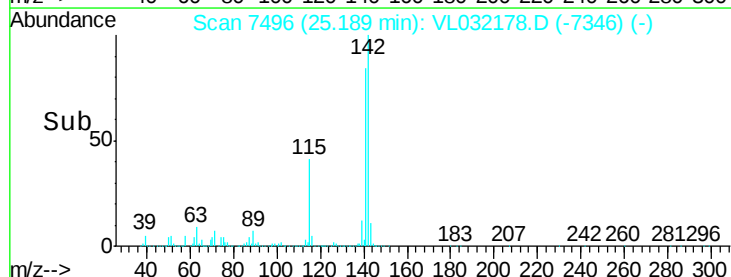
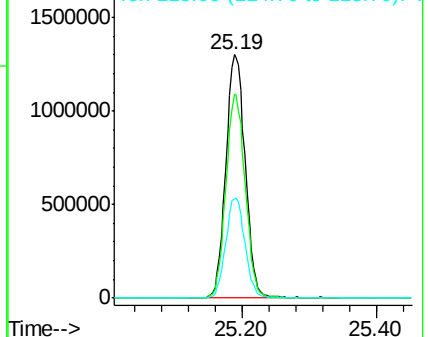
142 100

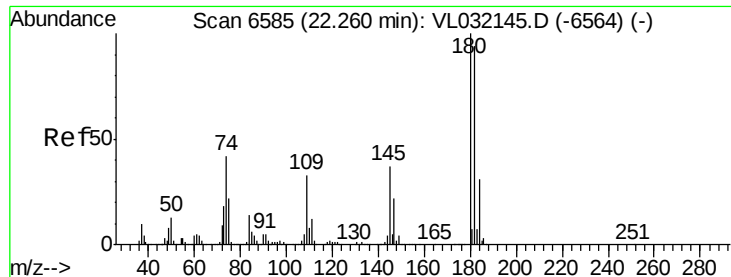
141 83.4 65.8 98.6

115 40.6 29.4 44.0



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: 8.91 ppbv
 RT: 22.26 min Scan# 6585
 Delta R.T. -0.01 min
 Lab File: VL032178.D
 Acq: 2 Jul 2018 12:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.4
184	30.3	24.4	36.6

Manual Integrations
 APPROVED

MMDadoda
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