

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032326.D
 Acq On : 27 Jul 2018 19:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/30/2018 11:43:21 AM

Quant Time: Jul 28 00:57:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1638759	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3741646	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4453355m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3335356	9.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	1260662	6.38	ppbv	100
3) Chlorodifluoromethane	3.06	51	1605440	9.80	ppbv	98
4) Chloromethane	3.22	50	965811	9.74	ppbv	98
5) Vinyl Chloride	3.34	62	898188	9.96	ppbv	96
6) Bromomethane	3.57	94	500870	10.11	ppbv	98
7) Chloroethane	3.65	64	316155	9.86	ppbv	96
8) Dichlorotetrafluoroethane	3.27	85	1841280	9.22	ppbv	100
9) Propene	3.08	41	823456	11.18	ppbv	98
10) Heptane	8.33	43	2724347	10.53	ppbv	99
11) Trichlorofluoromethane	4.06	101	1795665	9.51	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.61	101	1260890	9.78	ppbv	98
13) Ethanol	3.70	45	189025	8.93	ppbv	99
14) Bromoethene	3.84	108	577949	10.21	ppbv	99
15) Acetone	3.96	43	1442727	9.34	ppbv	98
16) 1,3-Butadiene	3.41	39	852508	10.65	ppbv	89
17) tert-Butyl alcohol	4.42	59	561760	11.44	ppbv	100
18) 1,1-Dichloroethene	4.41	96	616714	10.31	ppbv	98
19) Isopropyl Alcohol	4.08	45	1122674	10.89	ppbv #	98
20) Methylene Chloride	4.47	84	528543	8.51	ppbv	95
21) Allyl Chloride	4.54	41	1123757	10.67	ppbv	98
22) trans-1,2-Dichloroethene	5.03	96	626159	10.86	ppbv	99
23) Vinyl Acetate	5.22	43	3014818	10.88	ppbv	98
24) 1,1-Dichloroethane	5.16	63	1921871	9.67	ppbv	99
25) Ethyl Acetate	5.84	43	3413836	9.85	ppbv	100
26) Hexane	5.85	57	1527273	9.74	ppbv	99
27) Carbon Disulfide	4.68	76	1568640	11.00	ppbv	99
28) Methyl tert-Butyl Ether	5.18	73	2398043	11.30	ppbv	100
29) Chloroform	5.92	83	2204766	9.66	ppbv	98
30) Cyclohexane	7.33	84	1373334	11.22	ppbv	98
31) cis-1,2-Dichloroethene	5.71	61	1576968	10.85	ppbv	99
32) 1,1,1-Trichloroethane	6.70	97	2186015	10.83	ppbv	99
34) 2-Butanone	5.40	43	2393897	9.88	ppbv	99
35) Carbon Tetrachloride	7.21	117	2123195	9.99	ppbv	99
36) Benzene	7.09	78	3295093	9.99	ppbv	98
37) 1,2-Dichloroethane	6.49	62	1732852	9.09	ppbv	99
38) Trichloroethene	8.04	130	1276902	10.02	ppbv	98
39) 1,2-Dichloropropane	7.82	63	1494442	9.01	ppbv	98
40) 1,4-Dioxane	8.03	88	467227	9.59	ppbv	91
41) Tetrahydrofuran	6.22	42	1419202	10.36	ppbv	100
42) Bromodichloromethane	8.00	83	2907835	9.42	ppbv	99
43) Methyl Methacrylate	8.22	69	1652409	10.44	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.07	57	6686108	9.35	ppbv	99
45) t-1,3-Dichloropropene	9.50	75	2038722	11.11	ppbv	96
46) cis-1,3-Dichloropropene	8.92	75	2414116	10.74	ppbv	98
47) 1,1,2-Trichloroethane	9.70	97	1458663	9.04	ppbv	99
48) Dibromochloromethane	10.54	129	2292963	9.64	ppbv	100
49) Bromoform	13.30	173	1831676	9.36	ppbv	100
50) 4-Methyl-2-Pentanone	8.95	43	4214188	9.86	ppbv	99
51) 2-Hexanone	10.36	43	3439803	10.56	ppbv #	100
52) Tetrachloroethene	11.46	164	1142327	10.28	ppbv	98
53) Toluene	10.03	91	4305821	10.92	ppbv	100
54) 1,2-Dibromoethane	10.85	107	2224946	9.71	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.37	131	1624114	8.84	ppbv #	54
57) Chlorobenzene	12.39	112	3025229	8.74	ppbv	99
58) Ethyl Benzene	12.95	91	5690670	10.19	ppbv	98
59) m/p-Xylene	13.24	91	9116514m	19.18	ppbv	
60) o-Xylene	13.94	91	4387312	9.41	ppbv	99
61) Styrene	13.77	104	3607420	10.52	ppbv	99
62) Isopropylbenzene	14.92	105	6280077	9.48	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.92	83	3146496	8.30	ppbv	100
64) n-propylbenzene	15.81	120	1621938	9.41	ppbv	95
65) tert-Butylbenzene	17.00	119	5105172	9.13	ppbv	100
66) Benzyl Chloride	17.25	91	3414206	10.24	ppbv	100
67) sec-Butylbenzene	17.55	105	7674294	9.16	ppbv	99
69) p-Isopropyltoluene	17.90	119	6098508	9.40	ppbv	100
70) n-Butylbenzene	18.80	91	6774377	9.04	ppbv	99
71) 2-Chlorotoluene	15.71	91	4980584	9.59	ppbv	99
72) 4-Ethyltoluene	16.09	105	5223730	10.00	ppbv	100
73) 1,3,5-Trimethylbenzene	16.25	105	4920449	9.57	ppbv	99
74) 1,2,4-Trimethylbenzene	17.02	105	4843134	8.94	ppbv	98
75) 1,3-Dichlorobenzene	17.26	146	2630099	8.38	ppbv	99
76) 1,4-Dichlorobenzene	17.39	146	2705378	8.98	ppbv	99
77) 1,2-Dichlorobenzene	18.08	146	2604626	8.45	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	1652474	15.24	ppbv	100
79) Naphthalene	22.51	128	4775422	10.15	ppbv	99
80) Naphthalene, 2-methyl-	25.18	142	2286134	12.28	ppbv	99
81) 1,2,4-Trichlorobenzene	22.24	180	2276882	9.69	ppbv	100

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

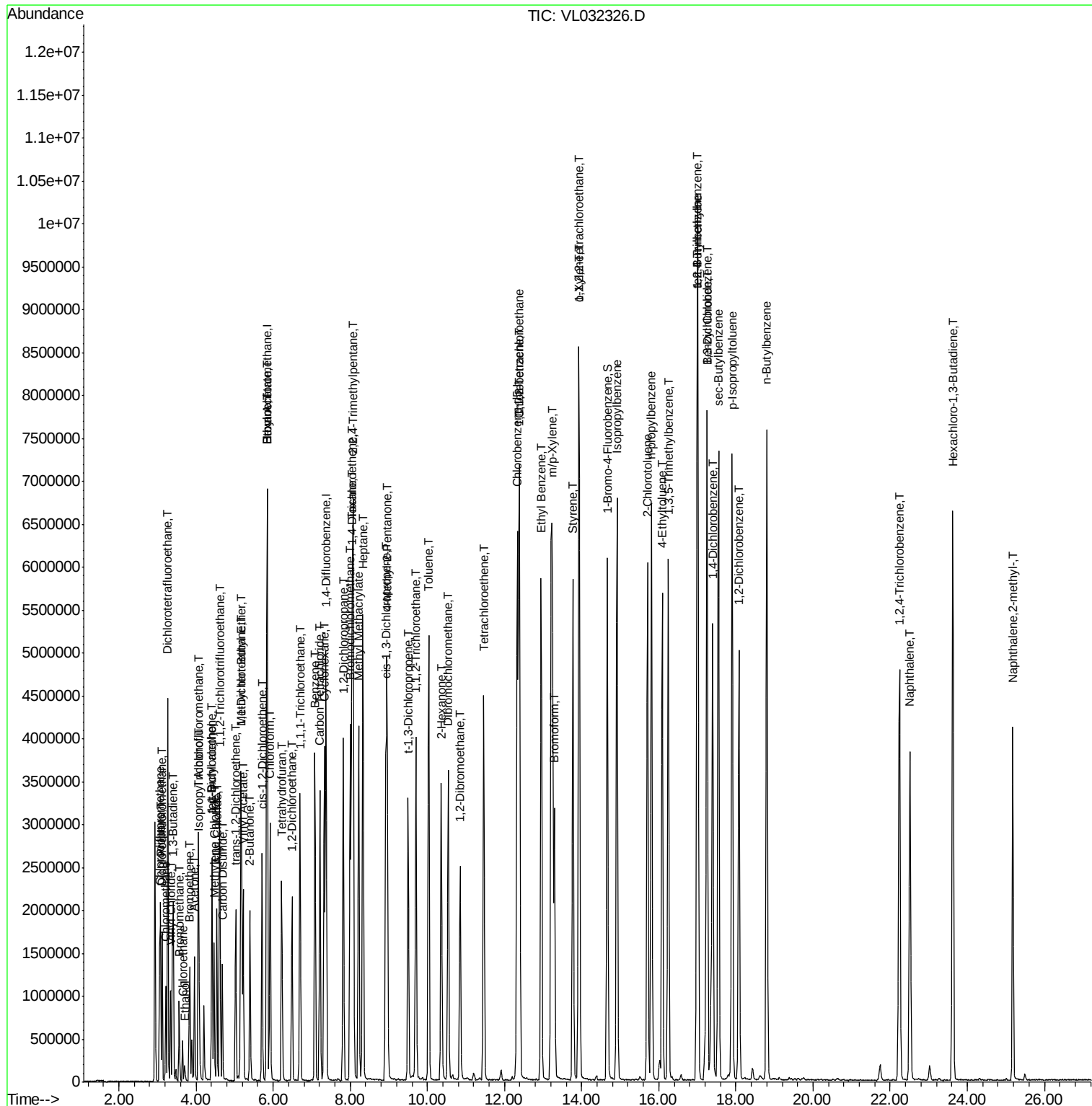
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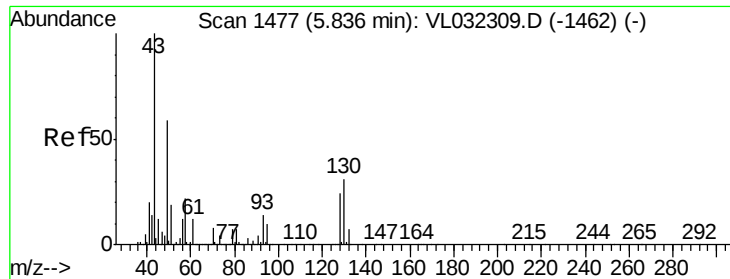
Instrument :
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ClientSampleID :
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#1

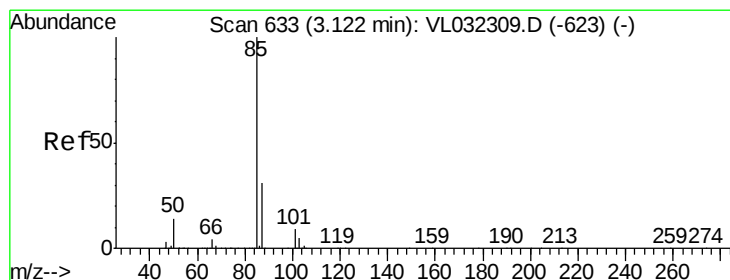
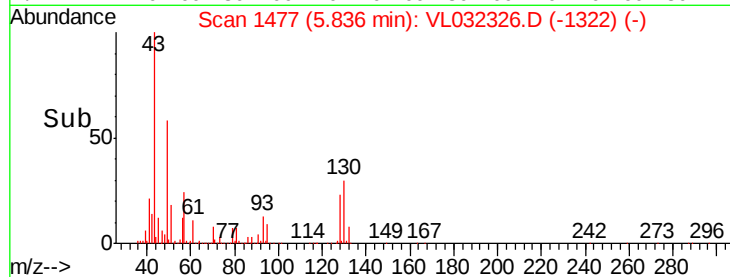
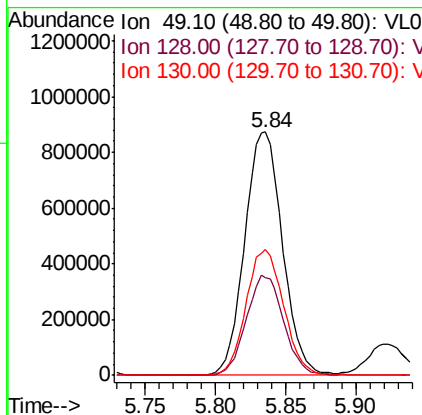
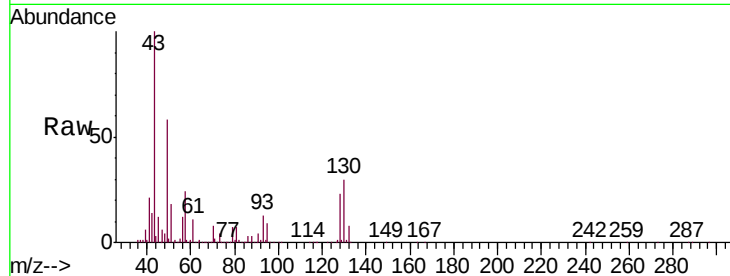
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.8	20.2	60.6
130	51.8	25.8	77.3

Manual Integrations
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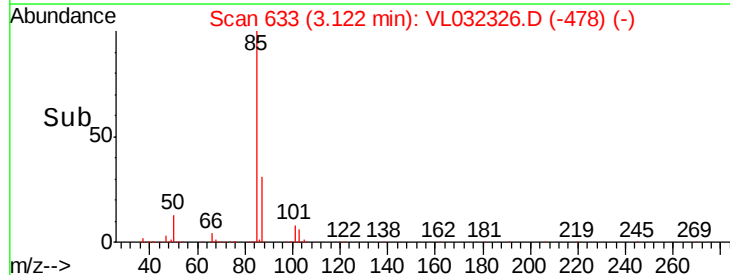
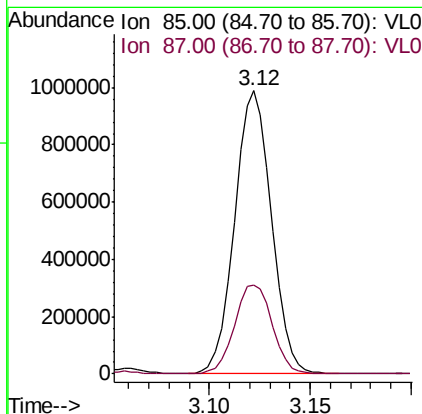
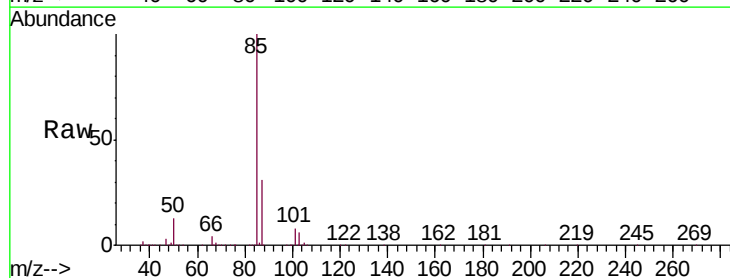
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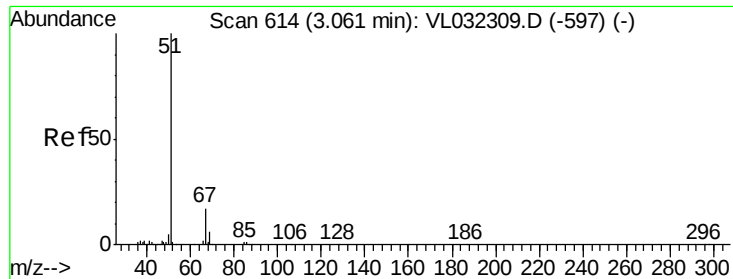


#2

Dichlorodifluoromethane
 Concen: 6.38 ppbv
 RT: 3.12 min Scan# 633
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.2	37.8





#3

Chlorodifluoromethane

Concen: 9.80 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1605440

Ion Ratio Lower Upper

51 100

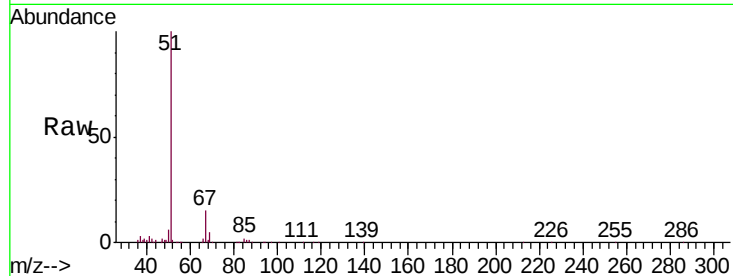
67 16.2 13.5 20.3

Manual Integrations

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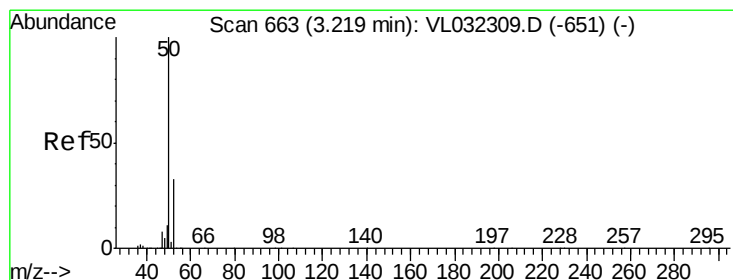
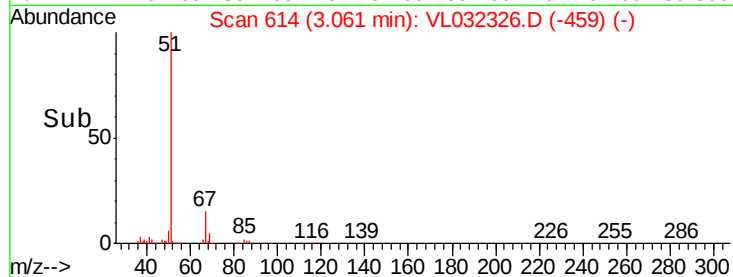
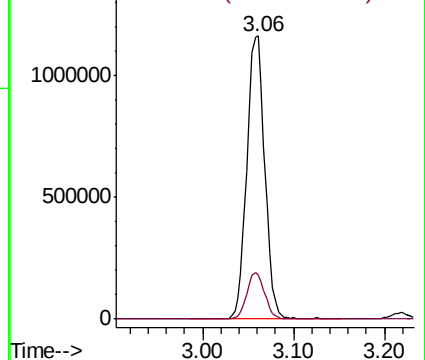
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.74 ppbv

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL032326.D

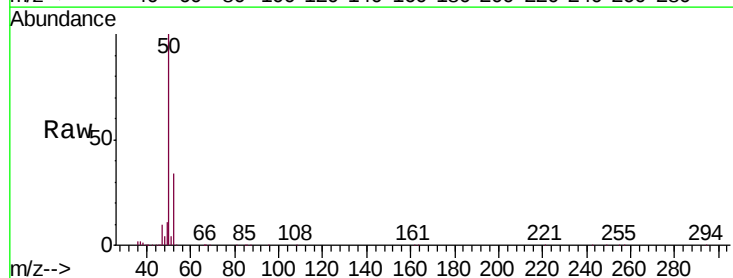
Acq: 27 Jul 2018 19:53

Tgt Ion: 50 Resp: 965811

Ion Ratio Lower Upper

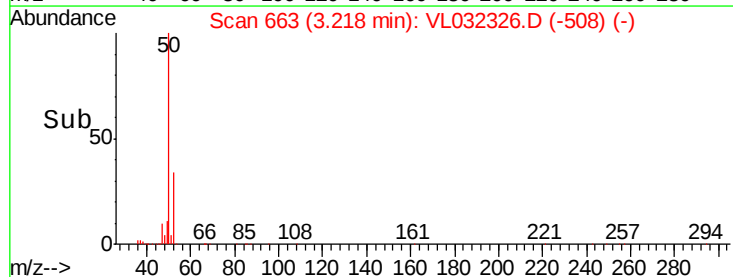
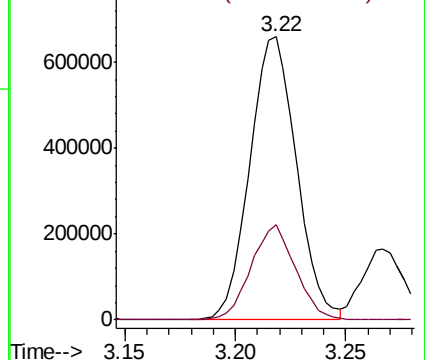
50 100

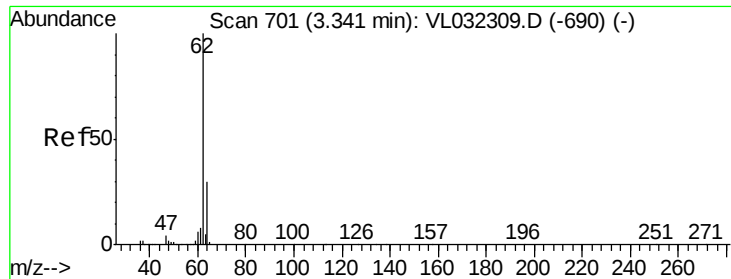
52 33.7 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.96 ppbv

RT: 3.34 min Scan# 700

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 898188

Ion Ratio Lower Upper

62 100

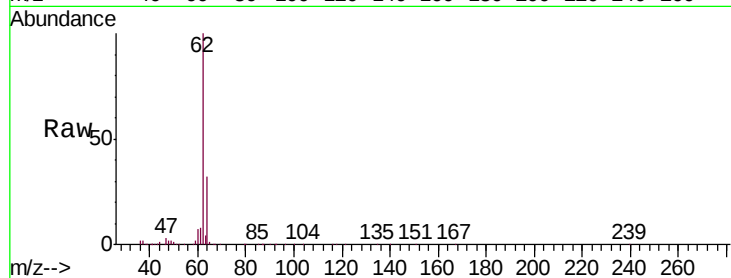
64 32.4 24.1 36.1

Manual Integrations

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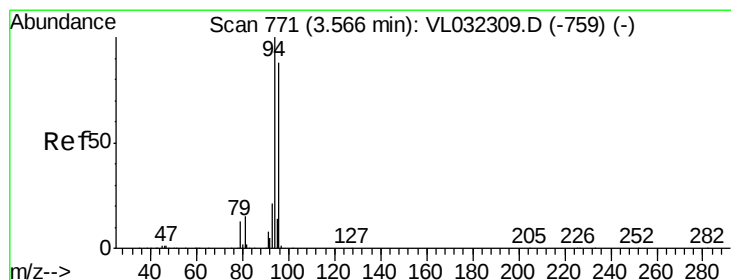
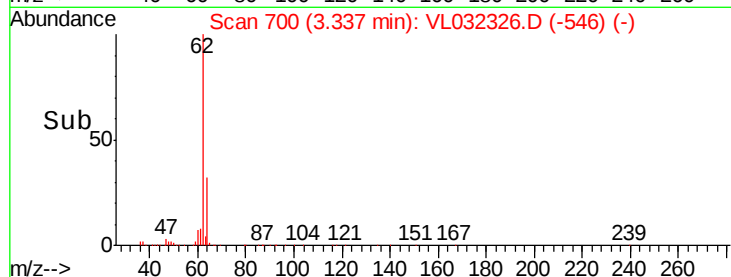
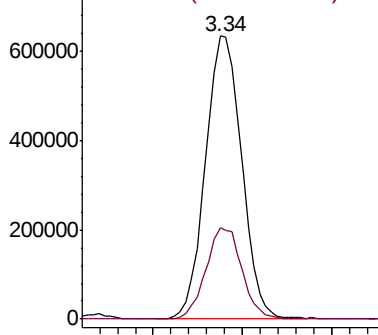
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.11 ppbv

RT: 3.57 min Scan# 771

Delta R.T. -0.00 min

Lab File: VL032326.D

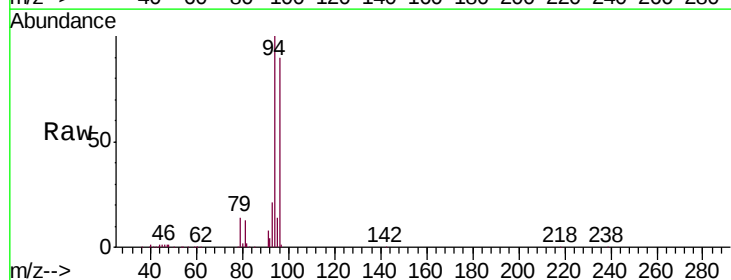
Acq: 27 Jul 2018 19:53

Tgt Ion: 94 Resp: 500870

Ion Ratio Lower Upper

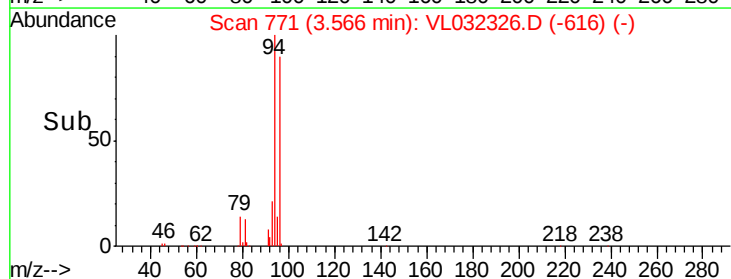
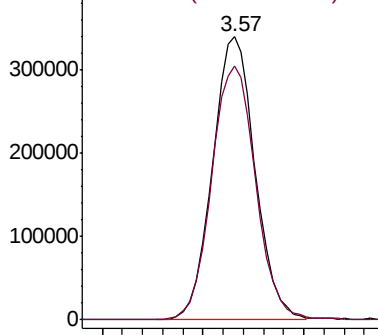
94 100

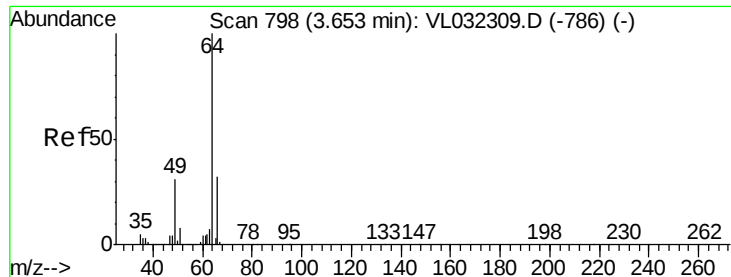
96 89.7 70.2 105.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.86 ppbv

RT: 3.65 min Scan# 798

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 316155

Ion Ratio Lower Upper

64 100

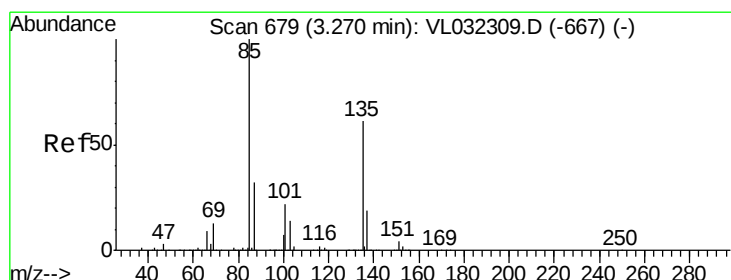
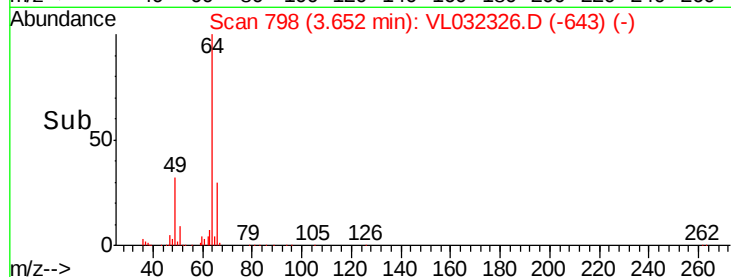
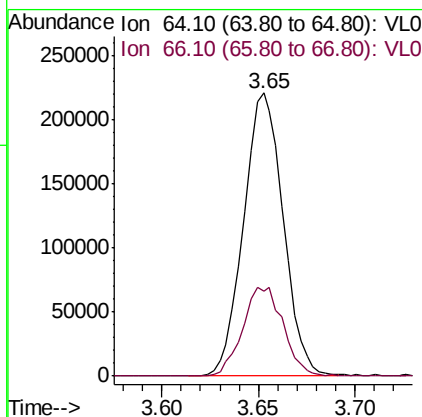
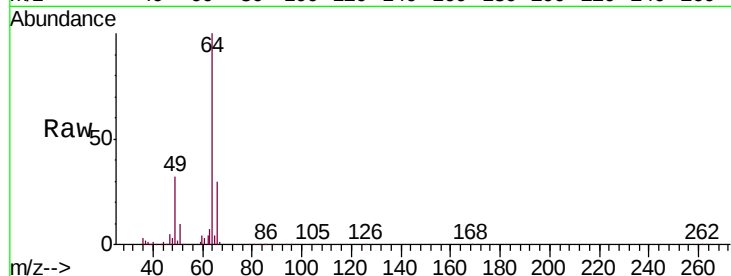
66 30.1 25.7 38.5

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#8

Dichlorotetrafluoroethane

Concen: 9.22 ppbv

RT: 3.27 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL032326.D

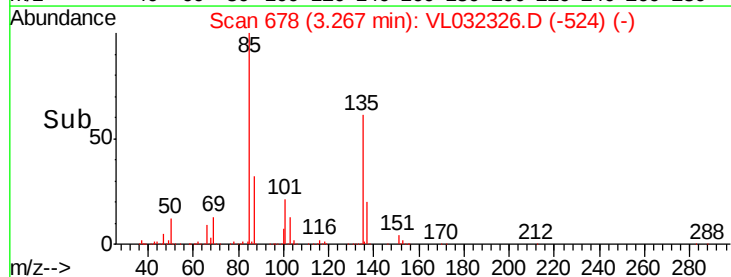
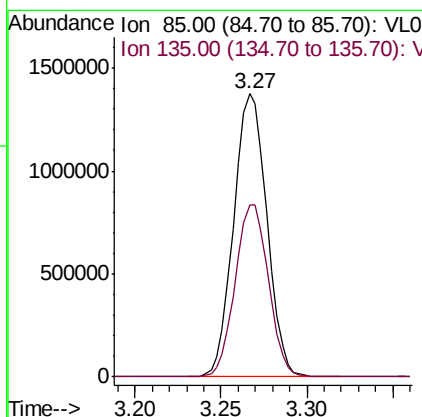
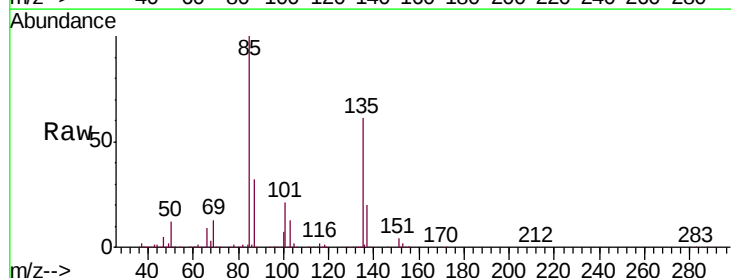
Acq: 27 Jul 2018 19:53

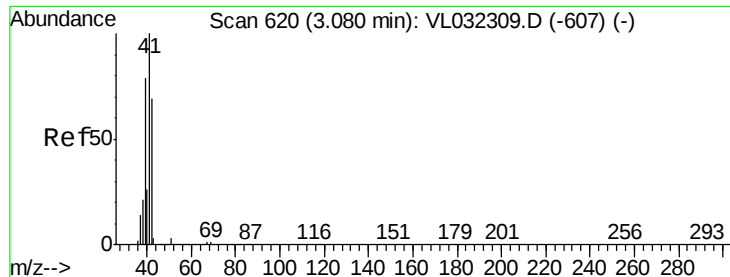
Tgt Ion: 85 Resp: 1841280

Ion Ratio Lower Upper

85 100

135 61.3 48.7 73.1





#9

Propene

Concen: 11.18 ppbv

RT: 3.08 min Scan# 620

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 823456

Ion Ratio Lower Upper

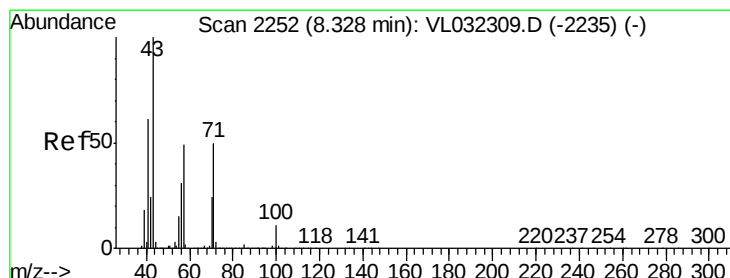
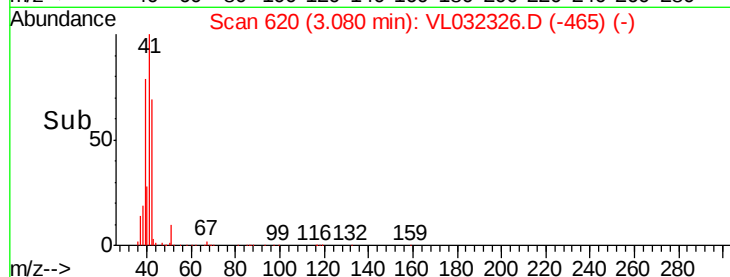
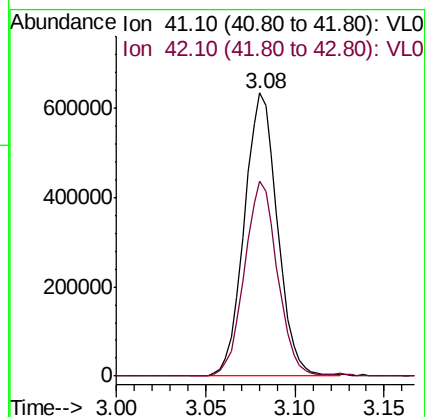
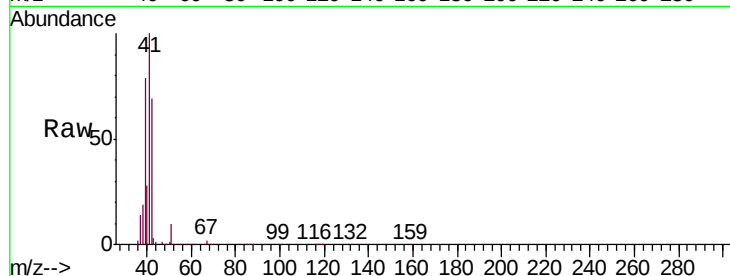
41 100

42 69.3 56.8 85.2

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#10

Heptane

Concen: 10.53 ppbv

RT: 8.33 min Scan# 2252

Delta R.T. -0.00 min

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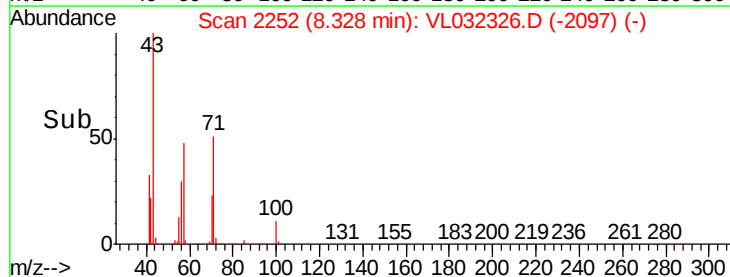
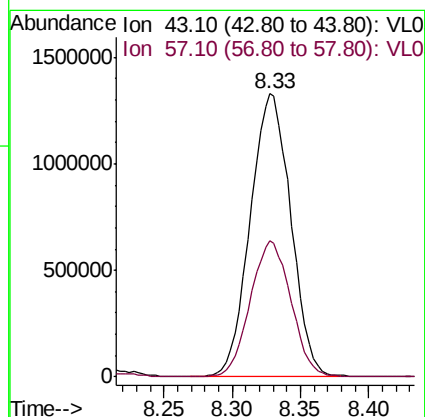
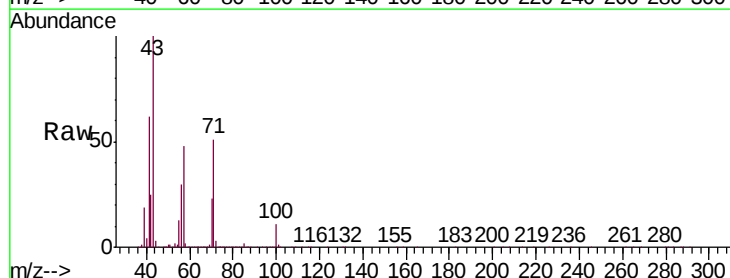
Acq: 27 Jul 2018 19:53

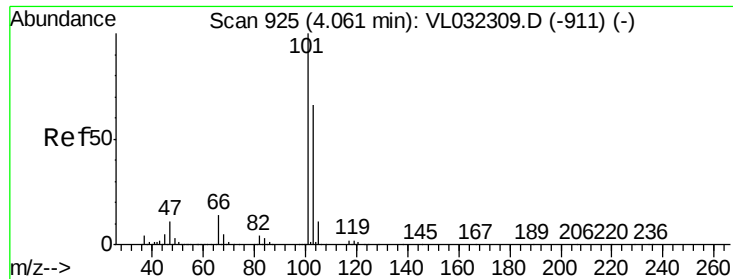
Tgt Ion: 43 Resp: 2724347

Ion Ratio Lower Upper

43 100

57 48.2 39.0 58.4





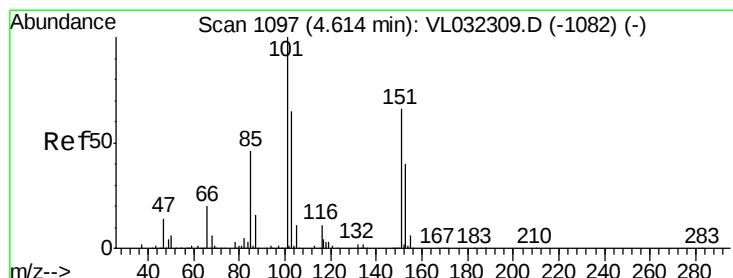
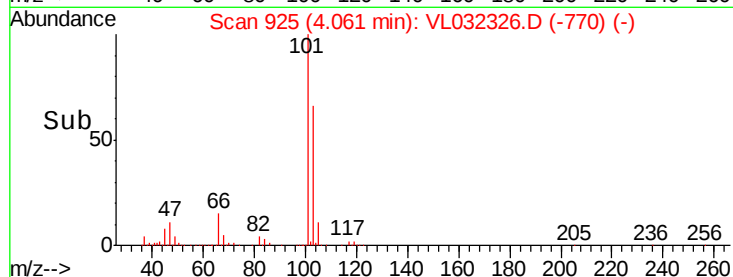
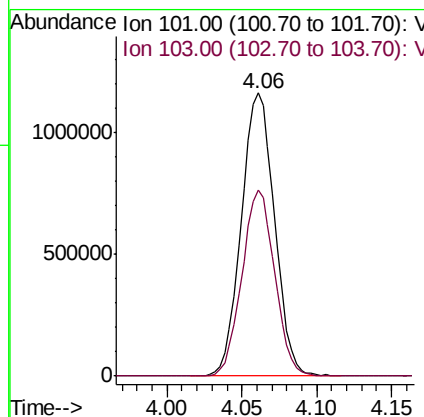
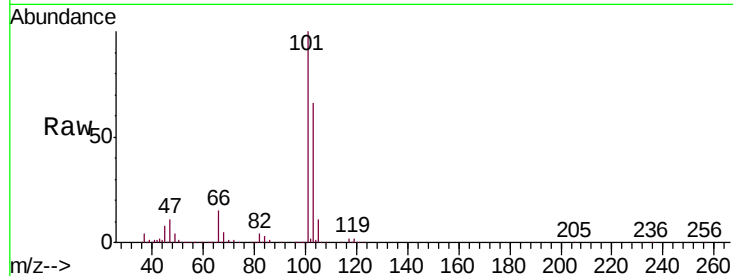
#11
 Trichlorofluoromethane
 Concen: 9.51 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1795665
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.6 78.8

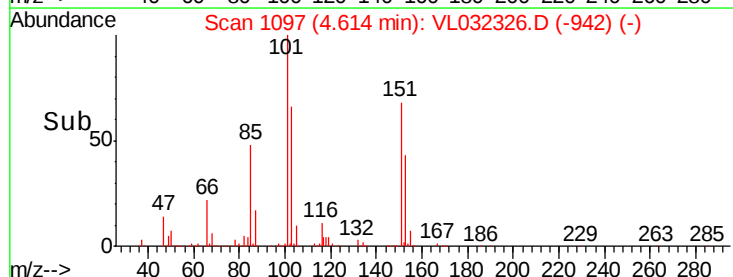
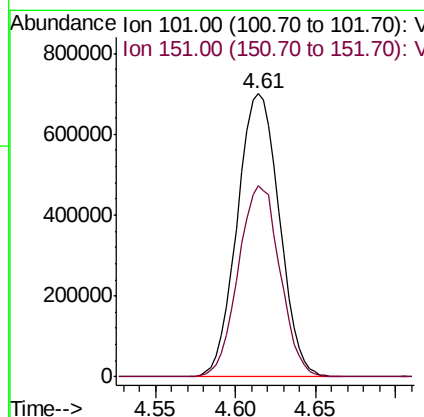
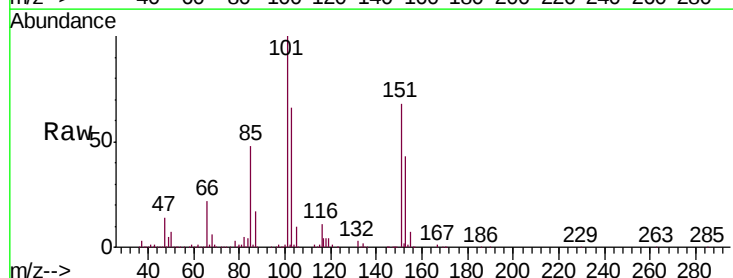
Manual Integrations
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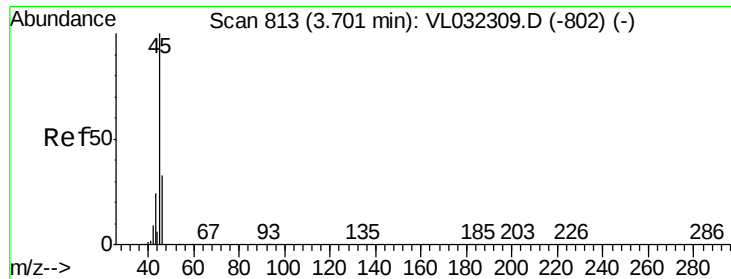
MMDadoda
 7/30/2018 11:43:21 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.78 ppbv
 RT: 4.61 min Scan# 1097
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Tgt Ion:101 Resp: 1260890
 Ion Ratio Lower Upper
 101 100
 151 66.9 52.4 78.6





#13

Ethanol

Concen: 8.93 ppbv

RT: 3.70 min Scan# 814

Delta R.T. 0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 189025

Ion Ratio Lower Upper

45 100

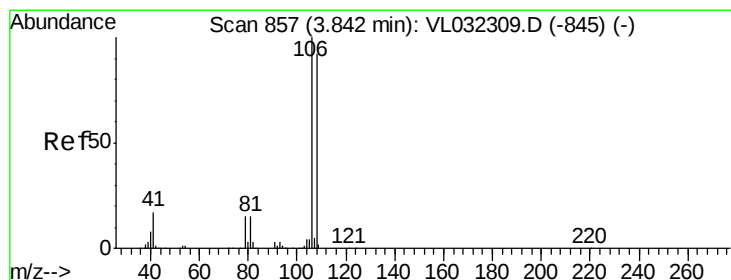
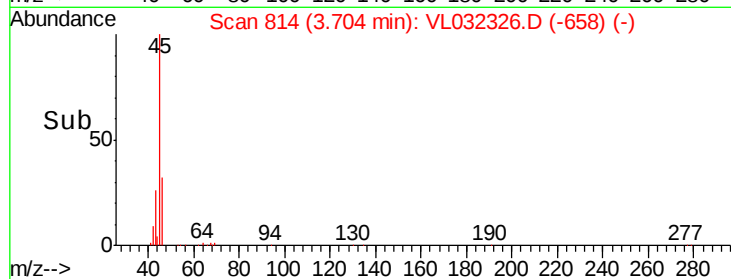
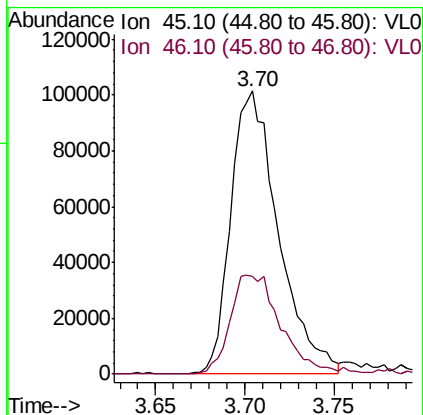
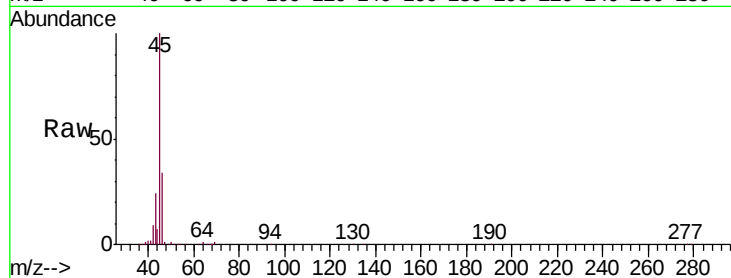
46 37.4 15.2 60.6

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#14

Bromoethene

Concen: 10.21 ppbv

RT: 3.84 min Scan# 857

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

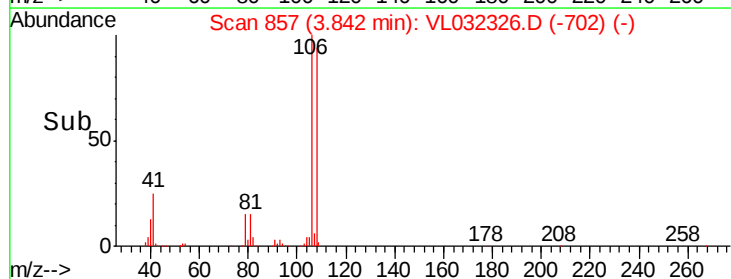
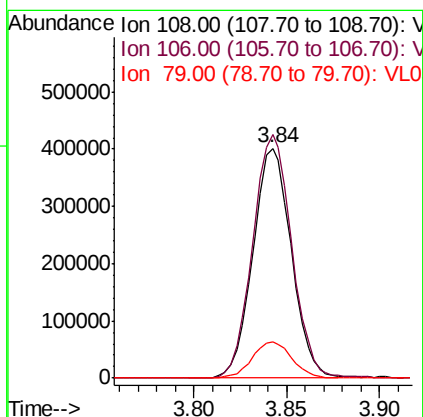
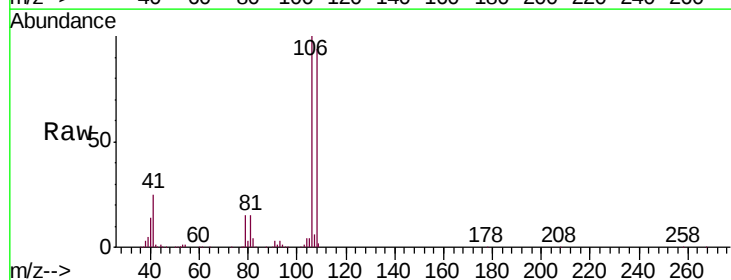
Tgt Ion: 108 Resp: 577949

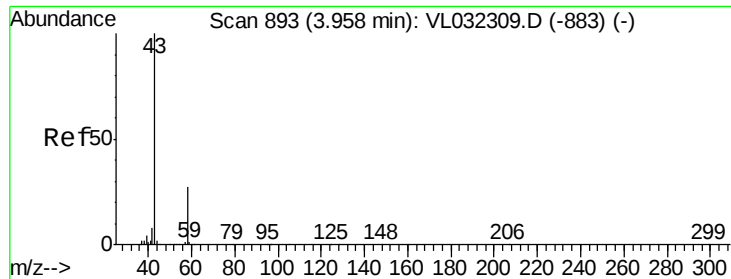
Ion Ratio Lower Upper

108 100

106 108.1 86.0 129.0

79 16.4 12.8 19.2





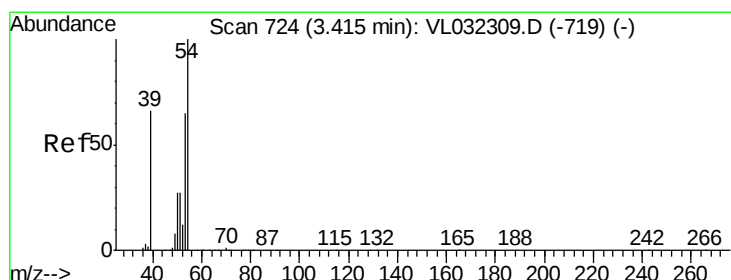
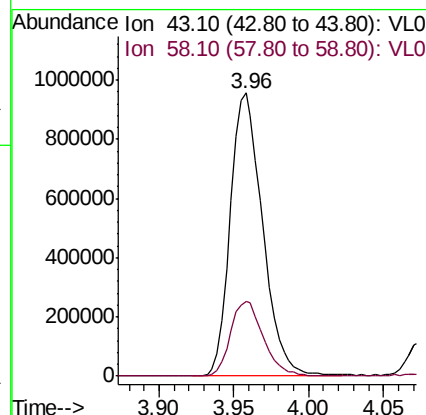
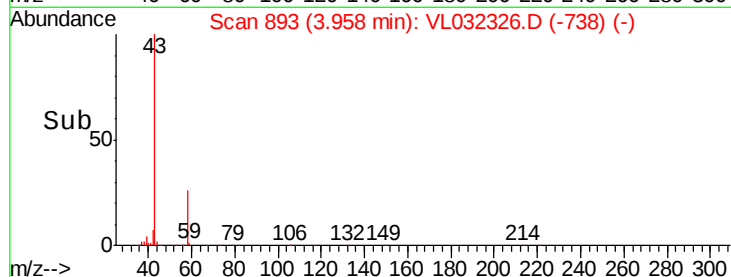
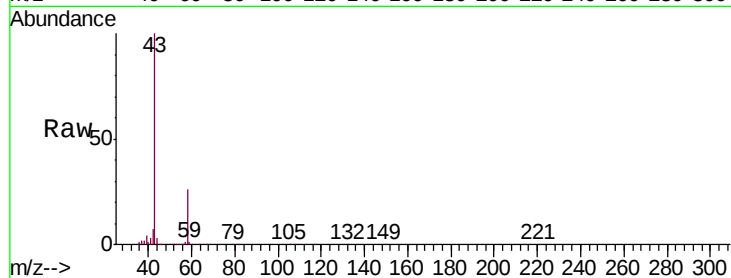
#15
Acetone
Concen: 9.34 ppbv
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1442727
Ion Ratio Lower Upper
43 100
58 27.0 22.5 33.7

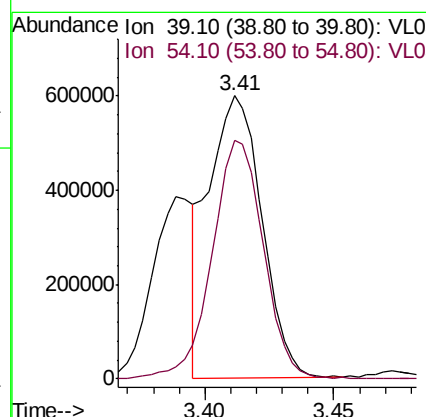
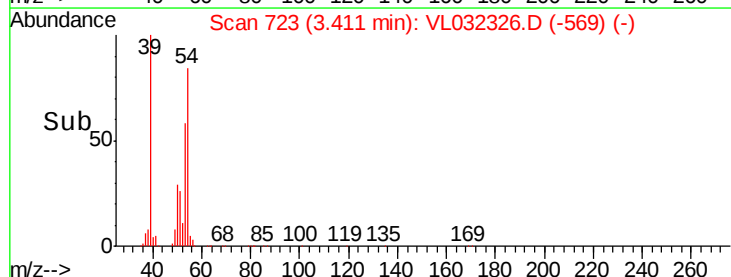
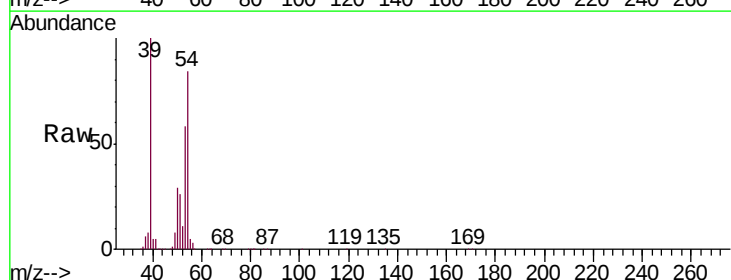
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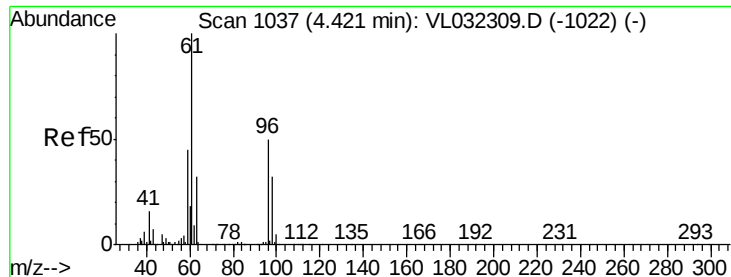
MMDadoda
7/30/2018 11:43:21 AM



#16
1,3-Butadiene
Concen: 10.65 ppbv
RT: 3.41 min Scan# 723
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion: 39 Resp: 852508
Ion Ratio Lower Upper
39 100
54 82.4 74.3 111.5





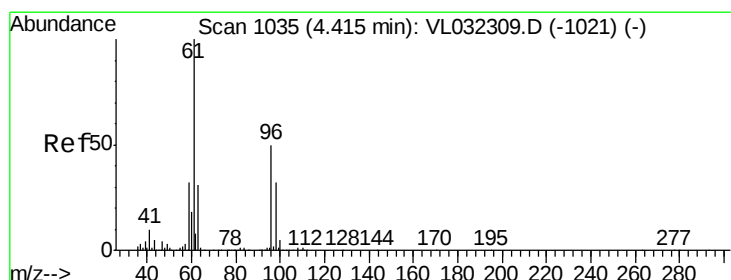
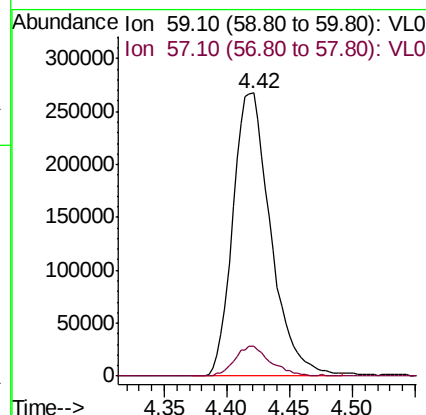
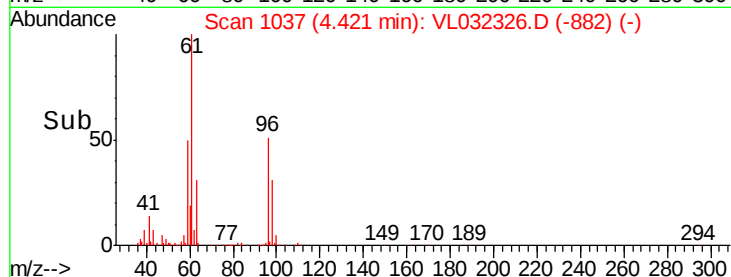
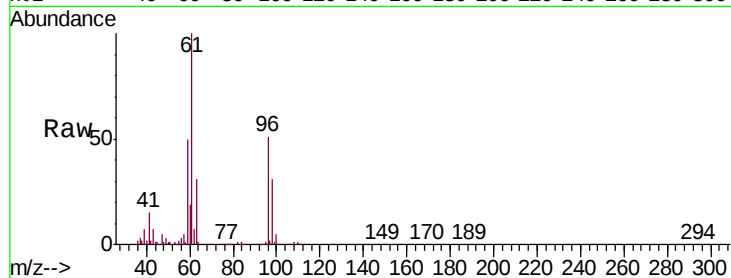
#17
tert-Butyl alcohol
Concen: 11.44 ppbv
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.0	12.0

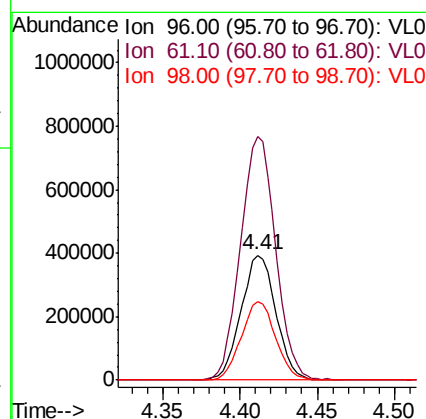
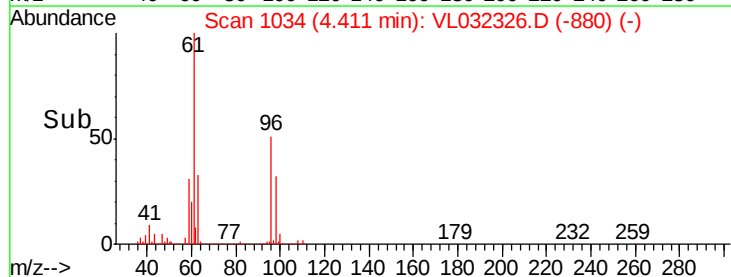
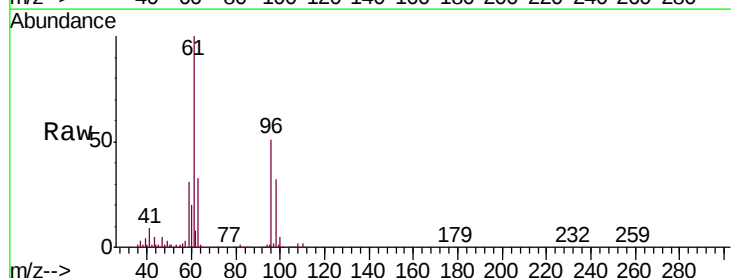
Manual Integrations
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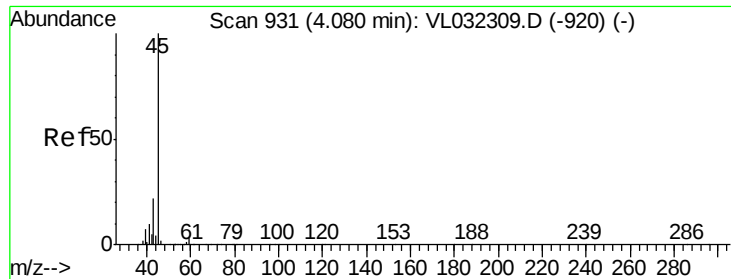
MMDadoda
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#18
1,1-Dichloroethene
Concen: 10.31 ppbv
RT: 4.41 min Scan# 1034
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	194.4	159.0	238.4
98	63.1	51.1	76.7





#19

Isopropyl Alcohol

Concen: 10.89 ppbv

RT: 4.08 min Scan# 931

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1122674

Ion Ratio Lower Upper

45 100

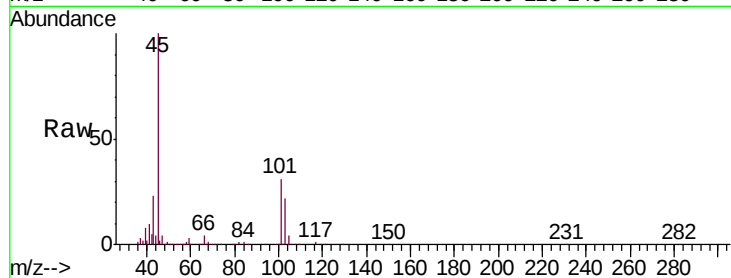
58 1.4 1.5 2.3#

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.08

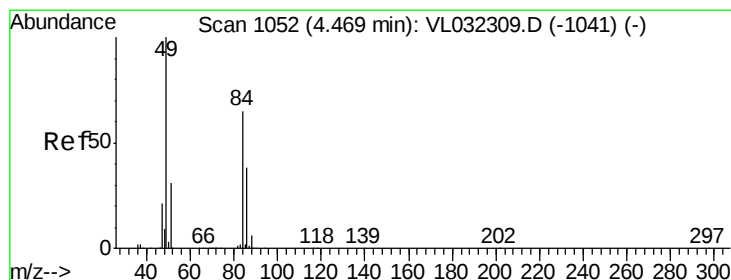
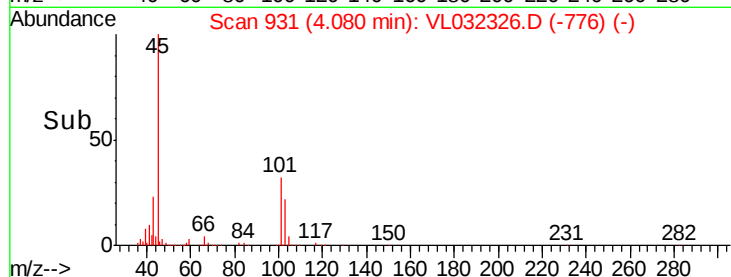
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.51 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Tgt Ion: 84 Resp: 528543

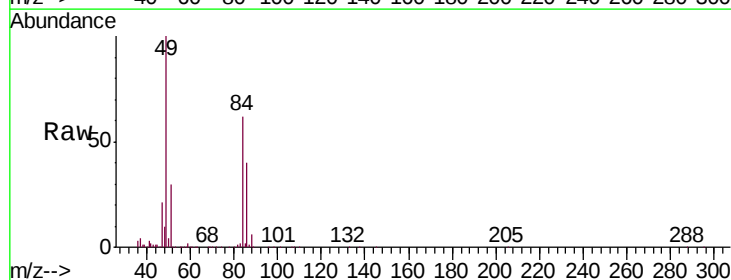
Ion Ratio Lower Upper

84 100

49 161.2 123.4 185.0

51 48.7 38.2 57.2

86 65.1 47.4 71.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

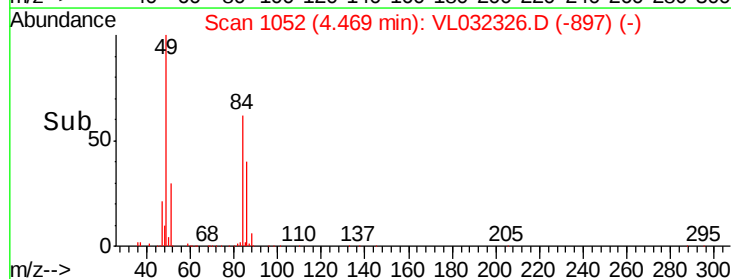
600000

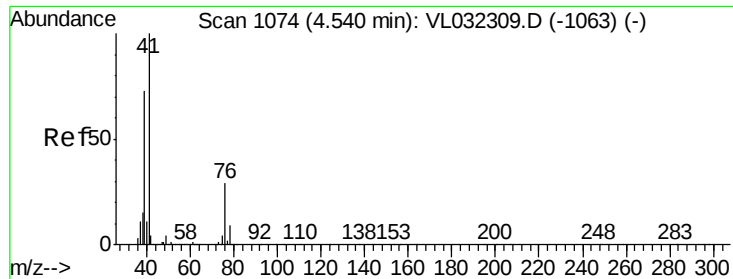
400000

200000

0

Time-->





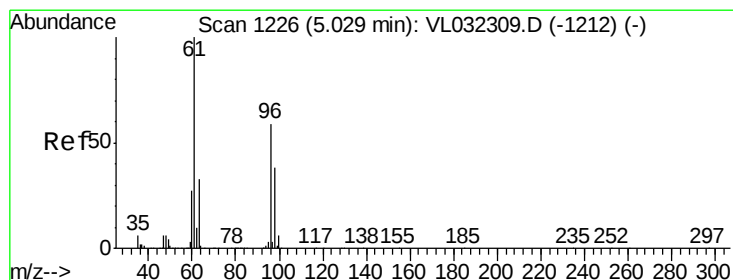
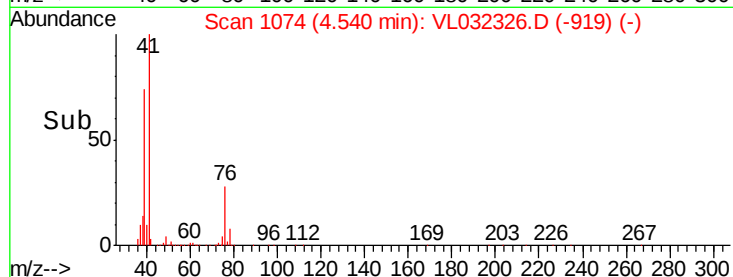
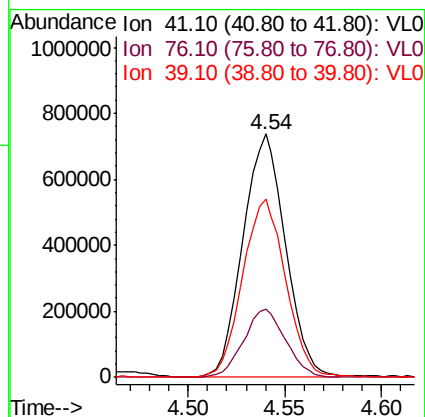
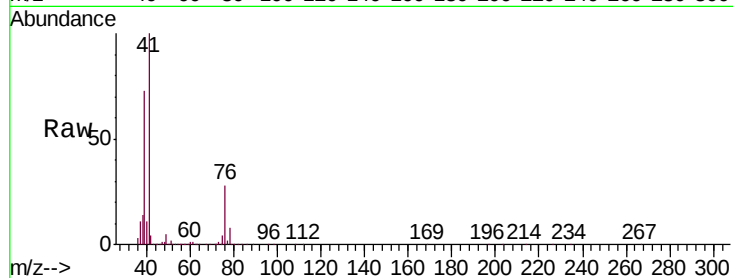
#21
Allvl Chloride
Concen: 10.67 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.9	23.1	34.7
39	74.2	58.2	87.2

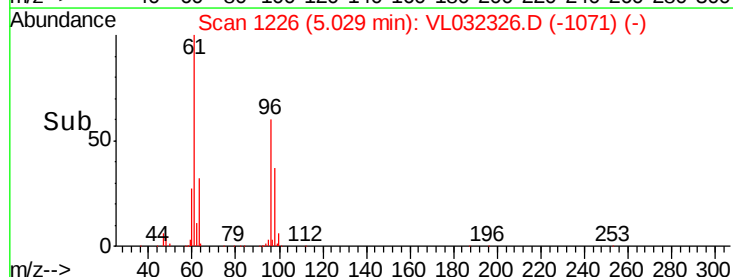
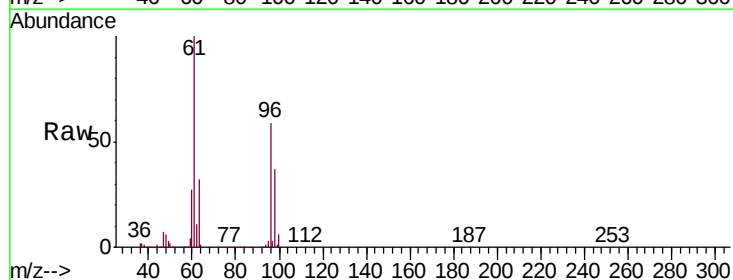
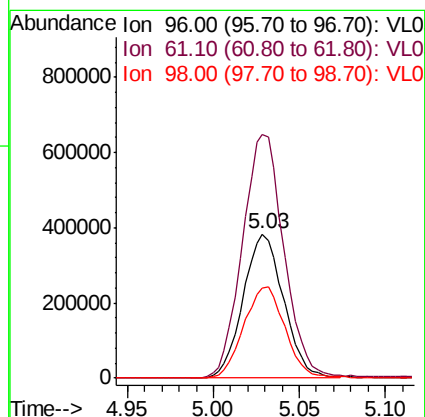
Manual Integrations
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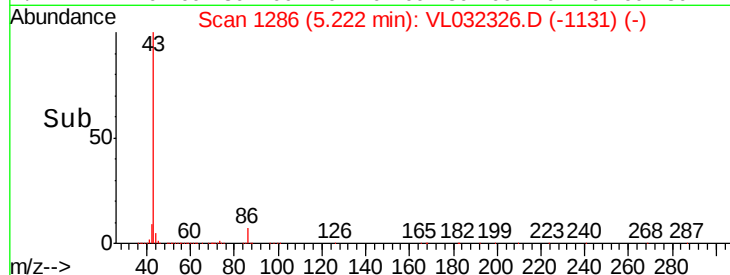
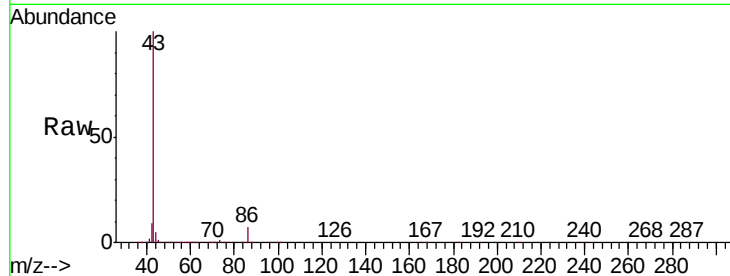
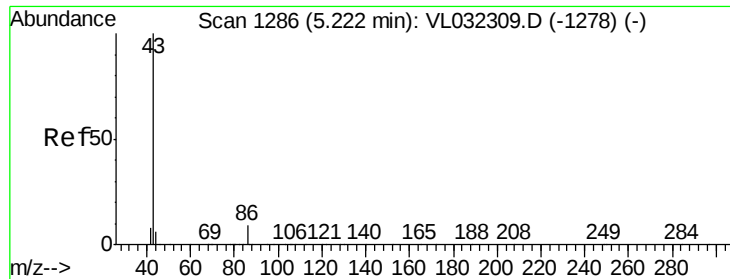
MMDadoda
7/30/2018 11:43:21 AM



#22
trans-1,2-Dichloroethene
Concen: 10.86 ppbv
RT: 5.03 min Scan# 1226
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.2	136.5	204.7
98	62.3	51.3	76.9





#23

Vinyl Acetate

Concen: 10.88 ppbv

RT: 5.22 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Tot Ion: 43 Resp: 3014818

Ion Ratio Lower Upper

43 100

86 7.2 6.3 9.5

42 9.0 7.0 10.4

44 4.8 4.6 7.0

Instrument :

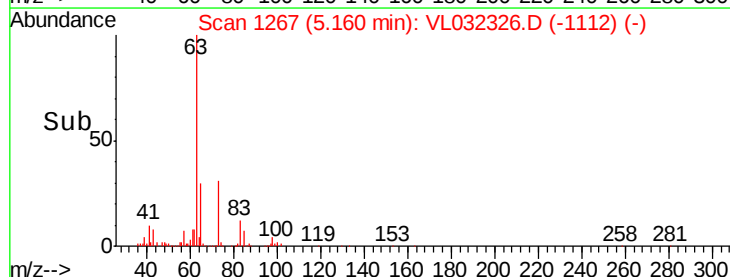
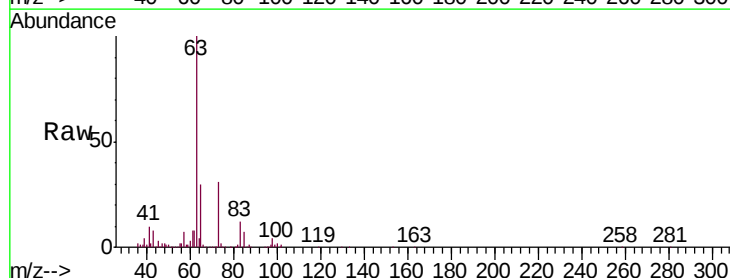
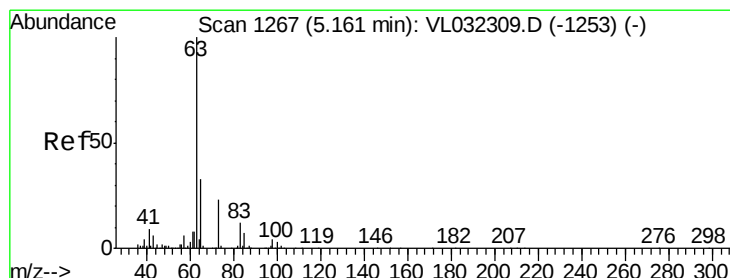
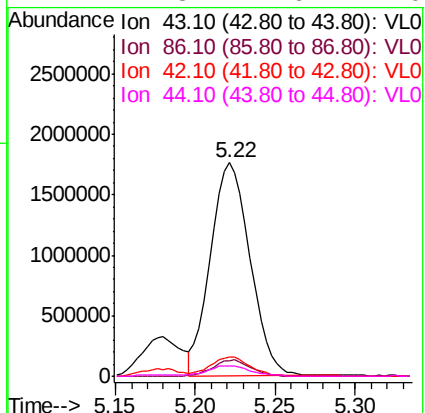
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations
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7/30/2018 11:43:21 AM



#24

1,1-Dichloroethane

Concen: 9.67 ppbv

RT: 5.16 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

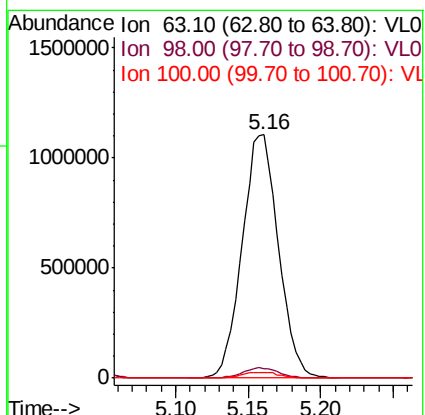
Tgt Ion: 63 Resp: 1921871

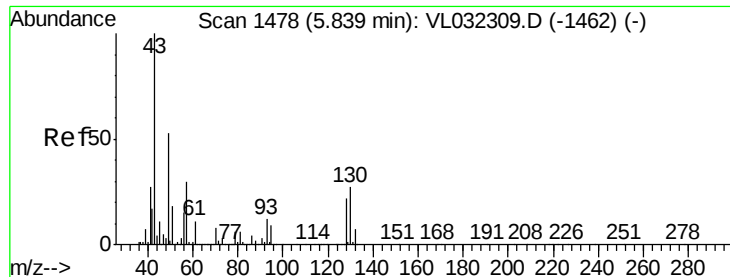
Ion Ratio Lower Upper

63 100

98 3.8 2.1 6.5

100 2.4 1.3 3.8





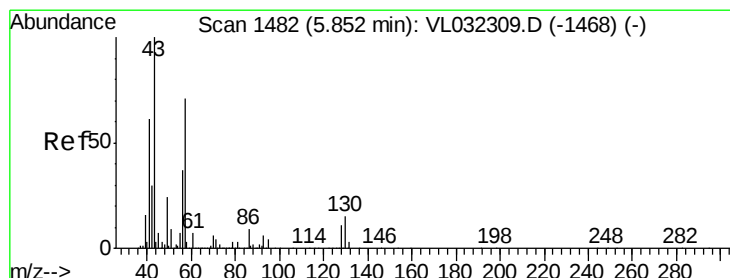
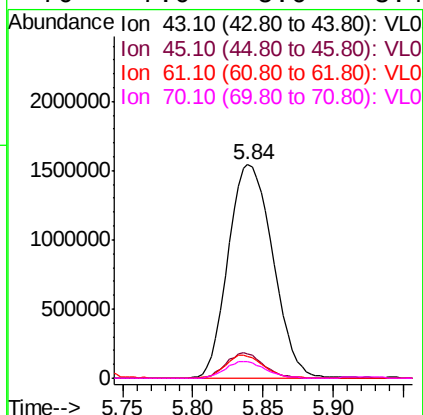
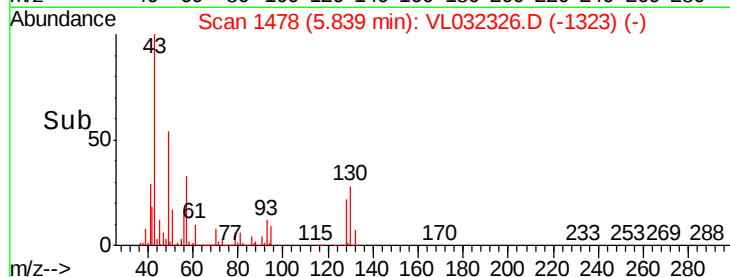
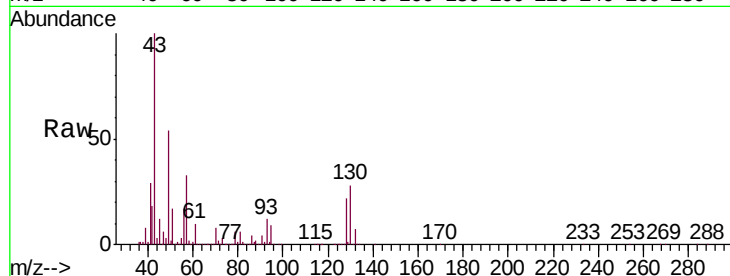
#25
Ethyl Acetate
Concen: 9.85 ppbv
RT: 5.84 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.1	12.1
61	9.3	7.4	11.0
70	7.0	5.6	8.4

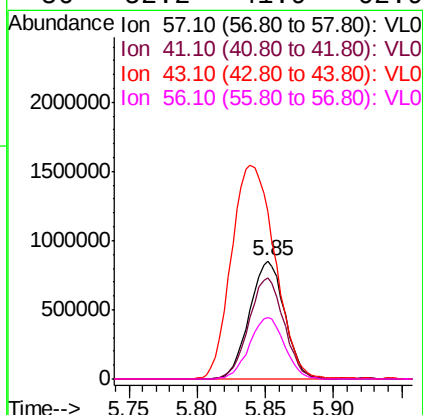
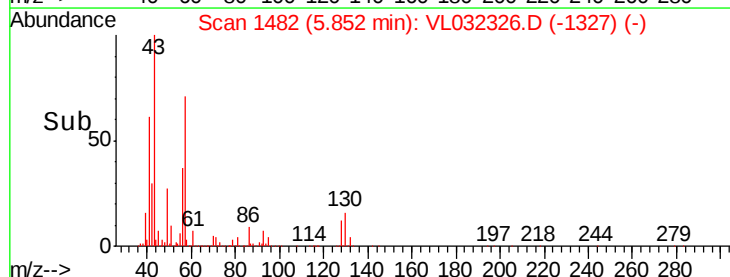
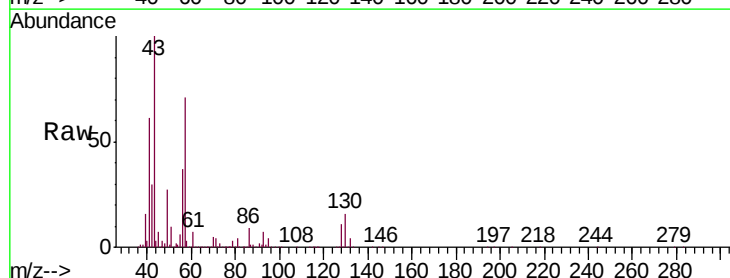
Manual Integrations
APPROVED

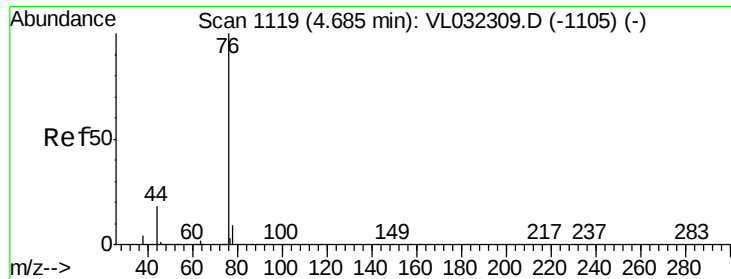
MMDadoda
7/30/2018 11:43:21 AM



#26
Hexane
Concen: 9.74 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.7	68.1	102.1
43	225.0	177.4	266.2
56	52.2	41.9	62.9





#27

Carbon Disulfide

Concen: 11.00 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1568640

Ion Ratio Lower Upper

76 100

44 18.5 14.0 21.0

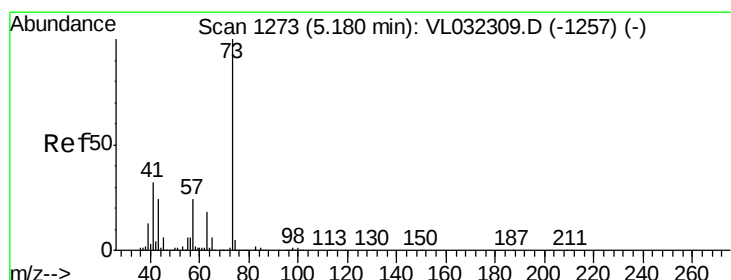
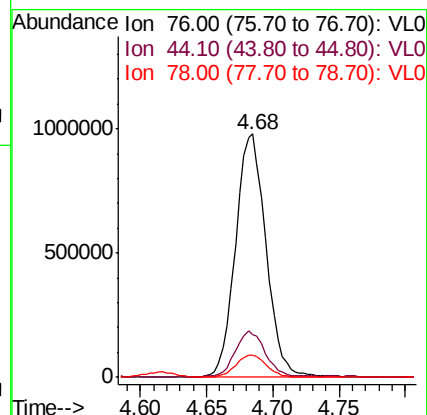
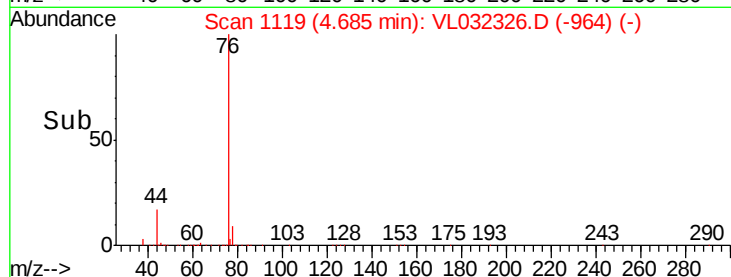
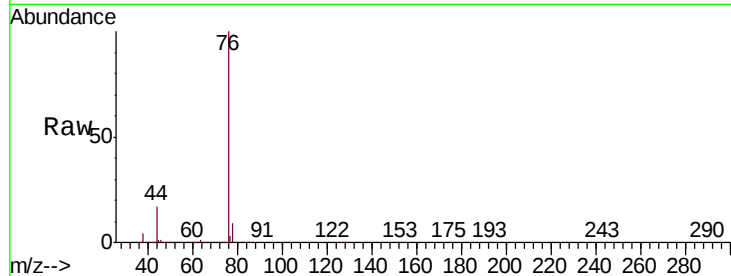
78 9.4 7.5 11.3

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#28

Methyl tert-Butyl Ether

Concen: 11.30 ppbv

RT: 5.18 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VL032326.D

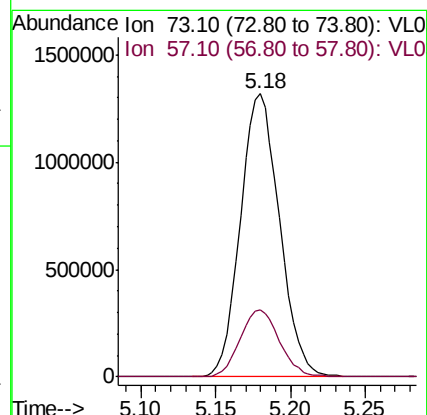
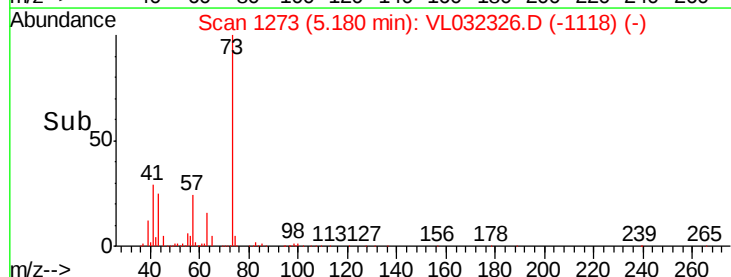
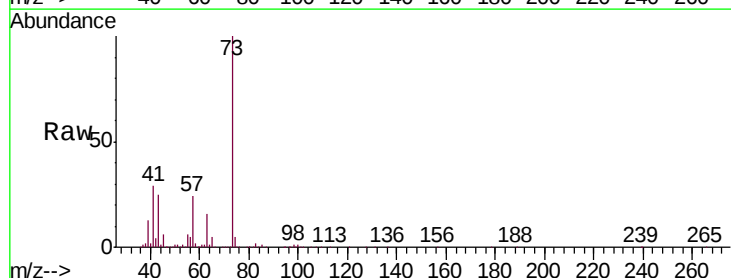
Acq: 27 Jul 2018 19:53

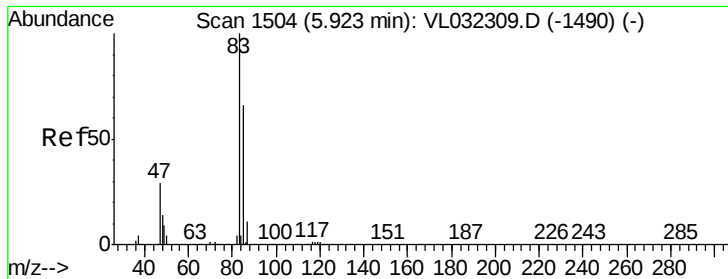
Tgt Ion: 73 Resp: 2398043

Ion Ratio Lower Upper

73 100

57 24.0 19.4 29.0





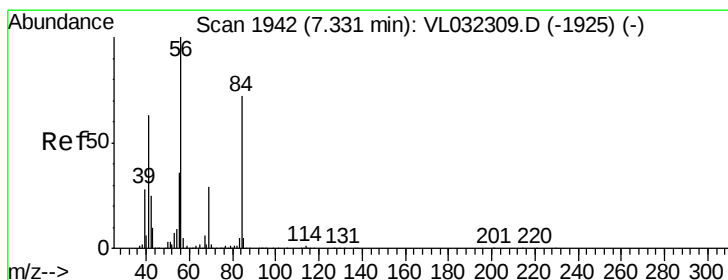
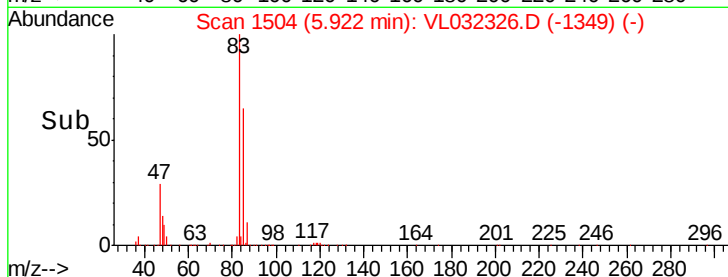
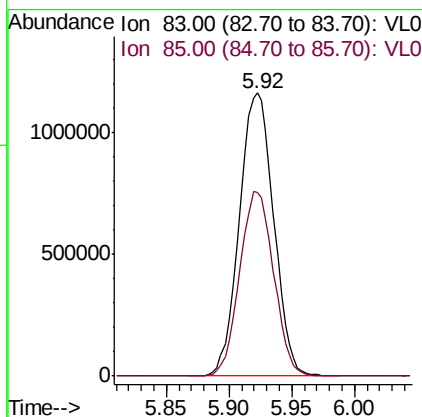
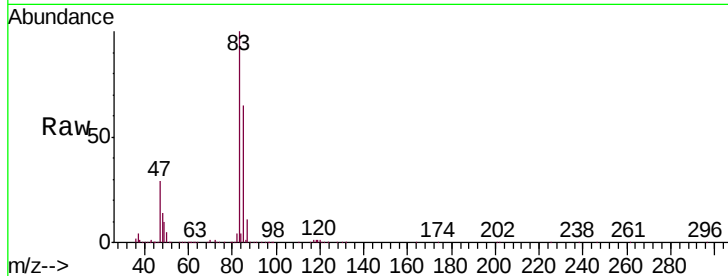
#29
Chloroform
Concen: 9.66 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2204766
Ion Ratio Lower Upper
83 100
85 64.7 52.9 79.3

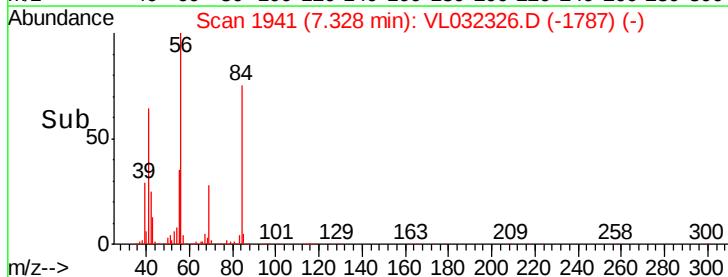
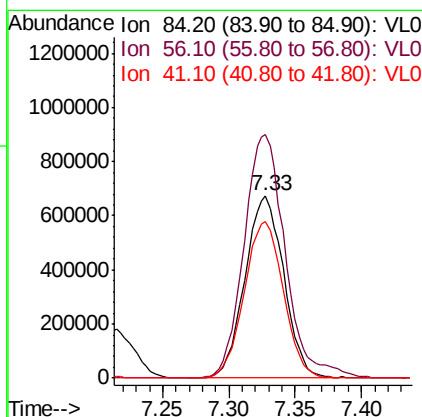
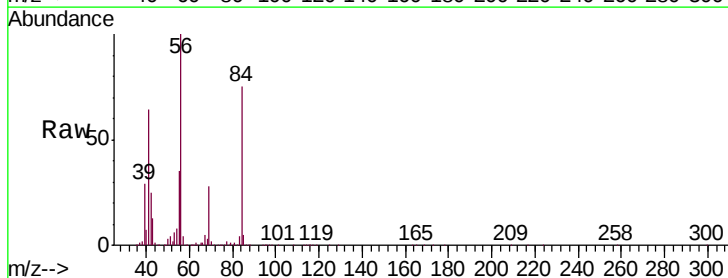
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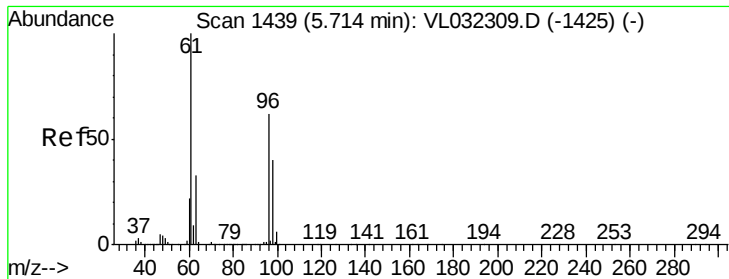
MMDadoda
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#30
Cyclohexane
Concen: 11.22 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion: 84 Resp: 1373334
Ion Ratio Lower Upper
84 100
56 142.8 116.8 175.2
41 86.4 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 10.85 ppbv

RT: 5.71 min Scan# 1439

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 61 Resp: 1576968

Ion Ratio Lower Upper

61 100

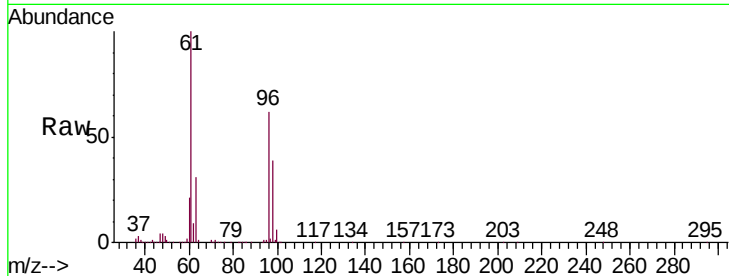
96 62.0 49.8 74.6

98 39.1 31.8 47.6

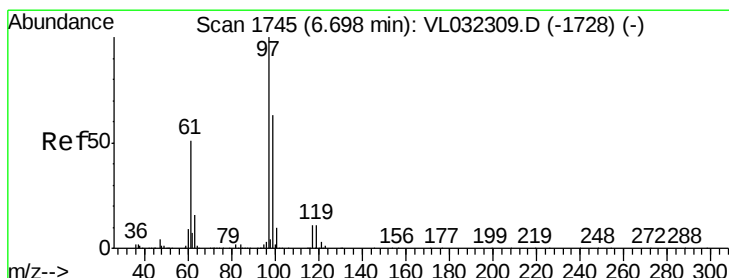
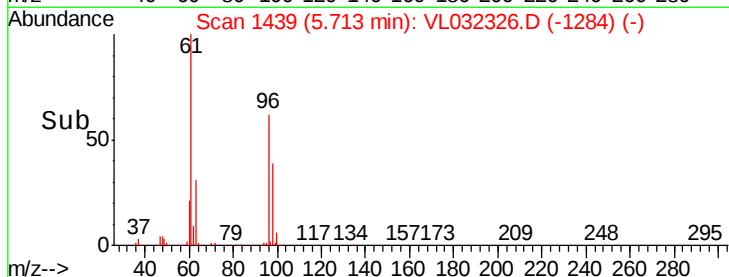
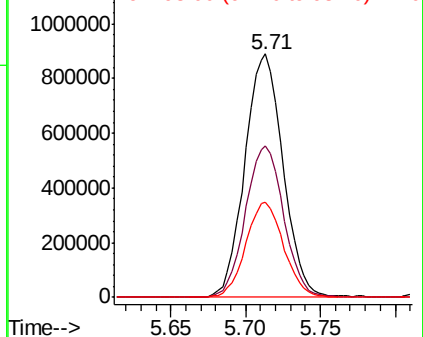
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 10.83 ppbv

RT: 6.70 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

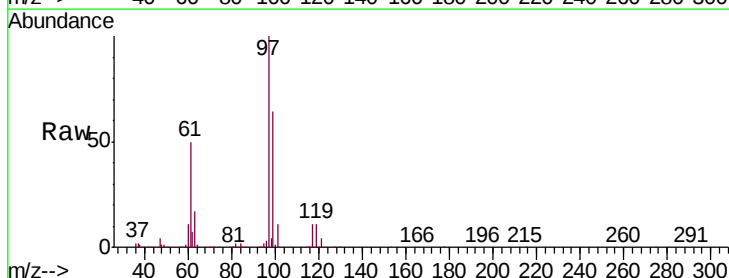
Tgt Ion: 97 Resp: 2186015

Ion Ratio Lower Upper

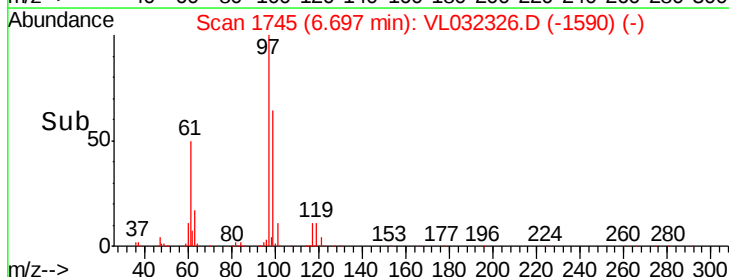
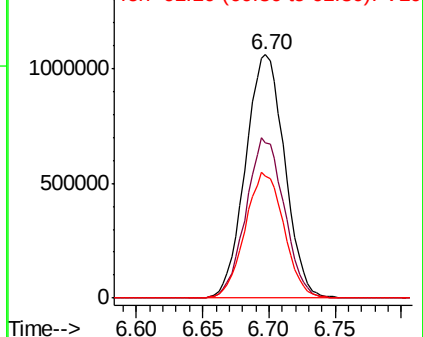
97 100

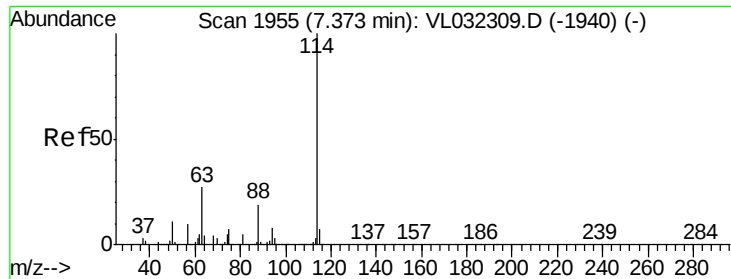
99 64.4 50.9 76.3

61 51.2 41.8 62.6



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





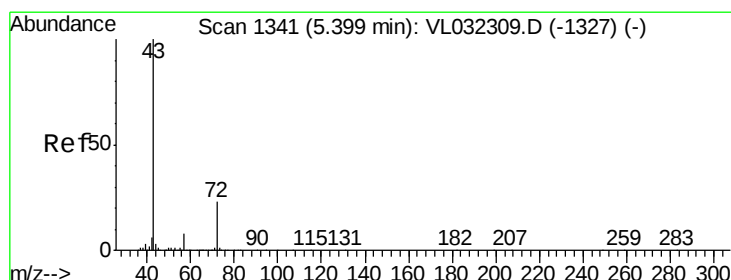
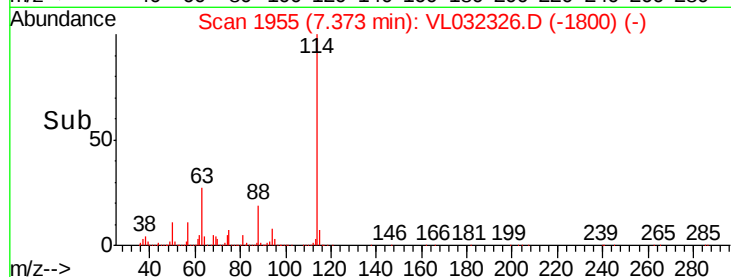
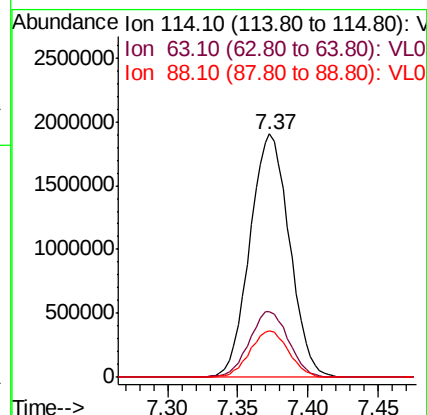
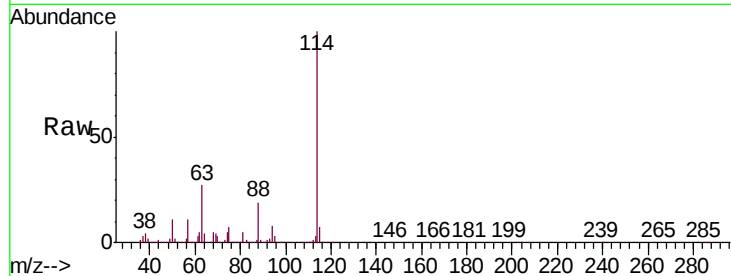
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.37 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.4	33.6
88	19.0	15.3	22.9

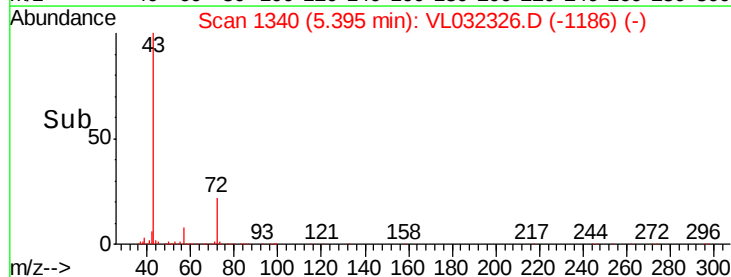
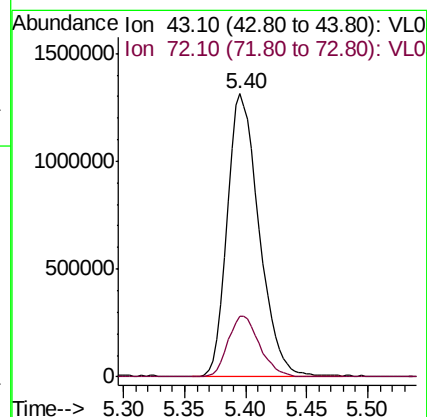
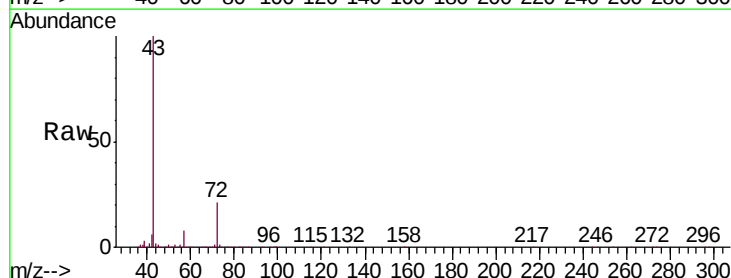
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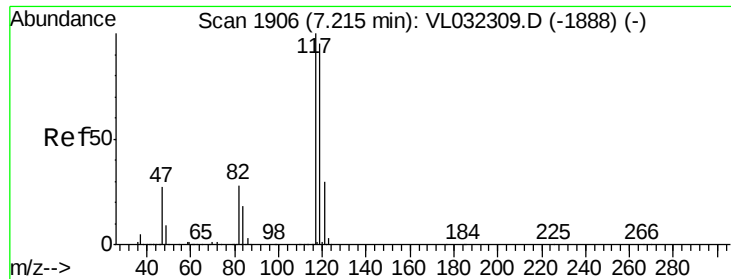
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#34
 2-Butanone
 Concen: 9.88 ppbv
 RT: 5.40 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.4	26.2





#35

Carbon Tetrachloride

Concen: 9.99 ppbv

RT: 7.21 min Scan# 1905

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2123195

Ion Ratio Lower Upper

117 100

119 94.2 76.1 114.1

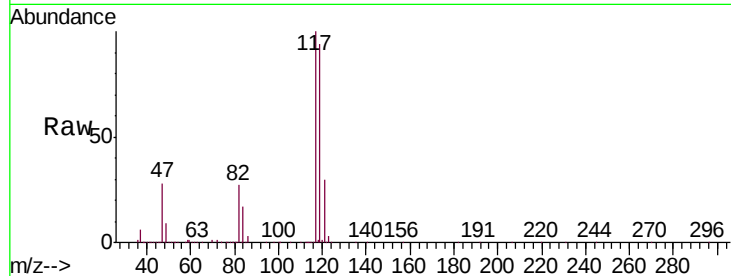
121 29.8 24.4 36.6

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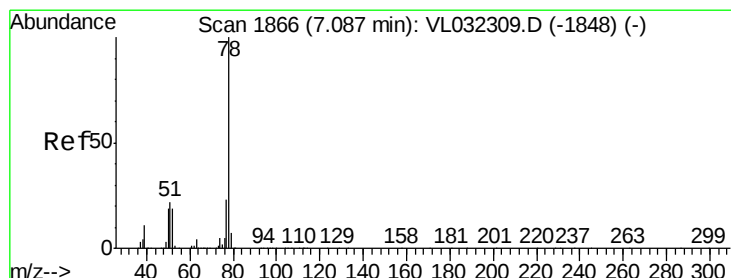
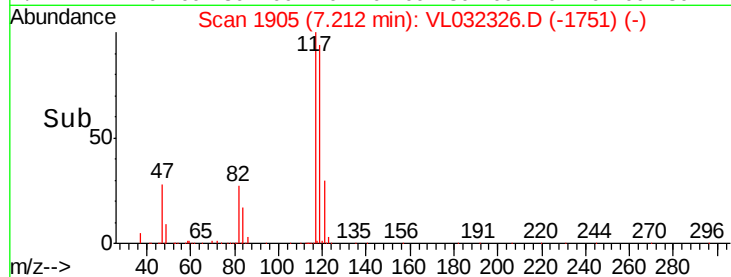
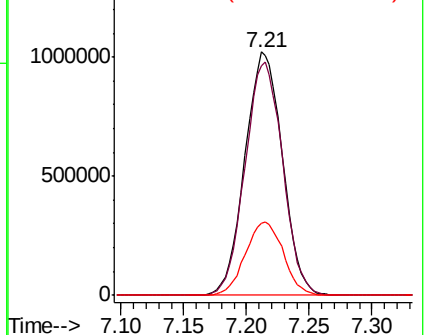
7/30/2018 11:43:21 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.99 ppbv

RT: 7.09 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

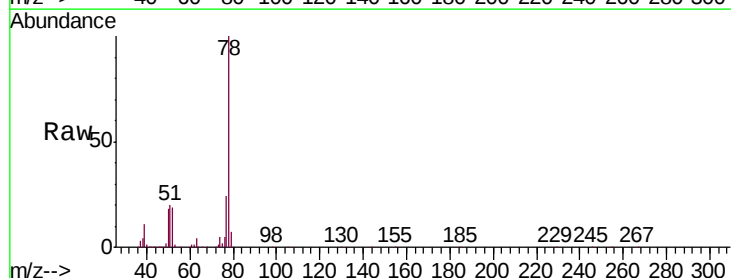
Tgt Ion: 78 Resp: 3295093

Ion Ratio Lower Upper

78 100

77 24.0 18.4 27.6

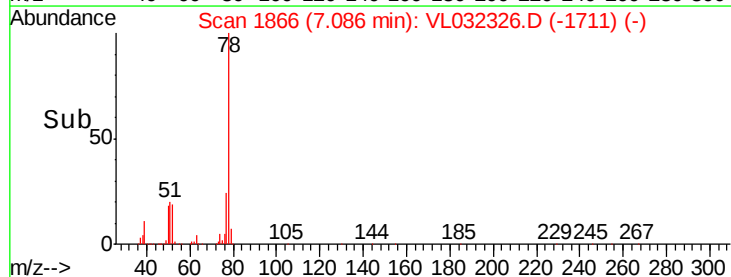
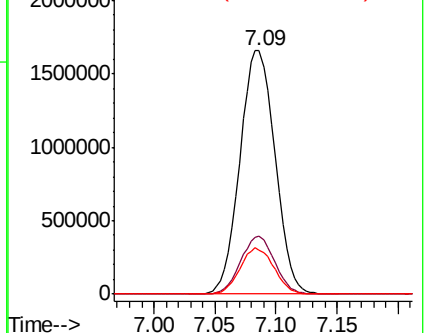
50 18.1 15.3 22.9

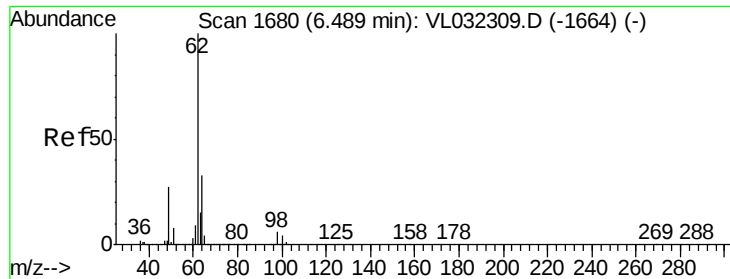


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





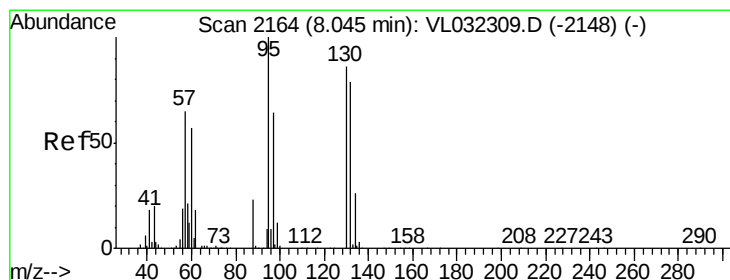
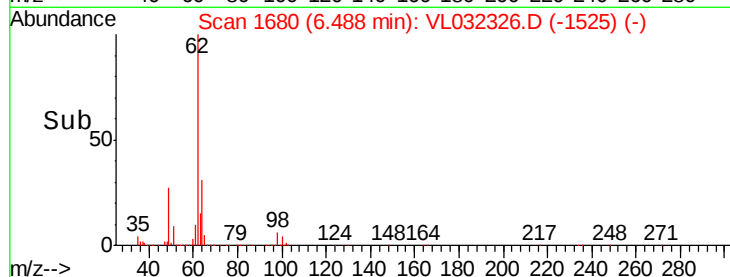
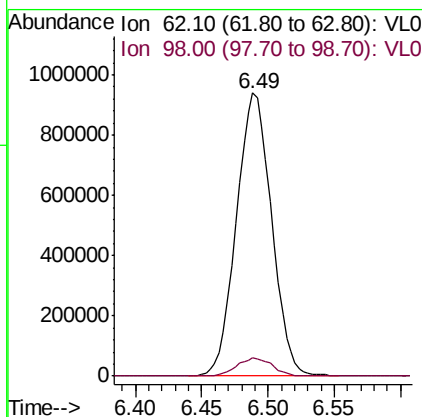
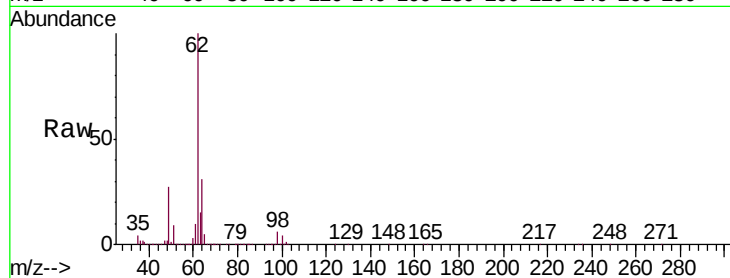
#37
 1,2-Dichloroethane
 Concen: 9.09 ppbv
 RT: 6.49 min Scan# 1680
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.1	7.7

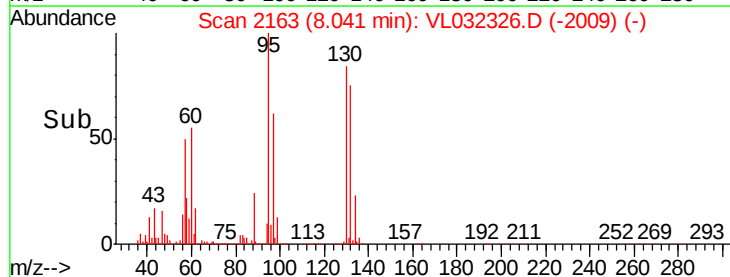
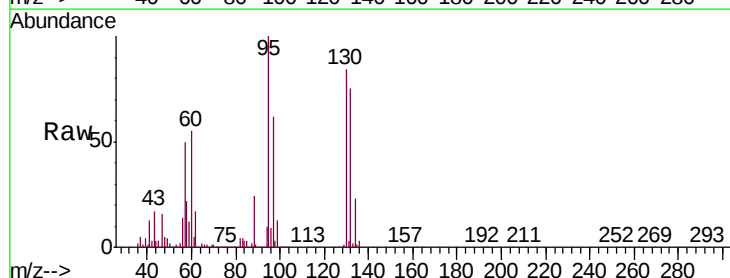
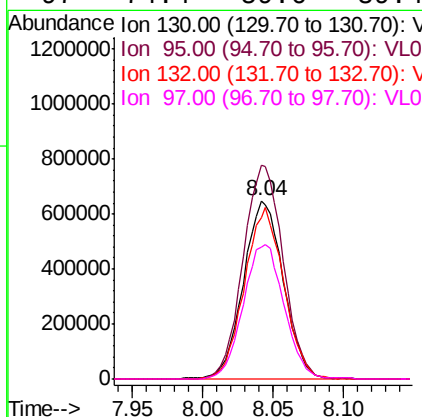
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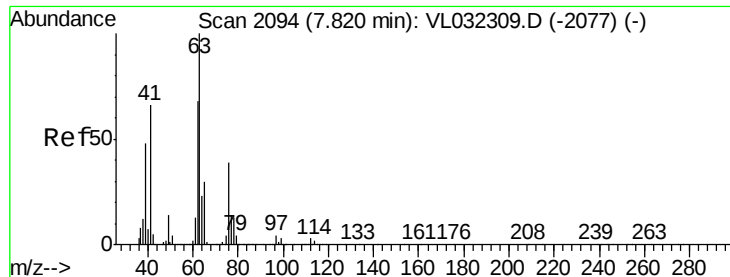
MMDadoda
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#38
 Trichloroethene
 Concen: 10.02 ppbv
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	119.9	92.9	139.3
132	90.4	73.0	109.4
97	74.4	59.6	89.4





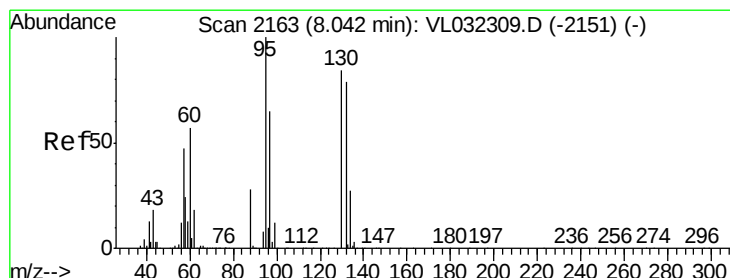
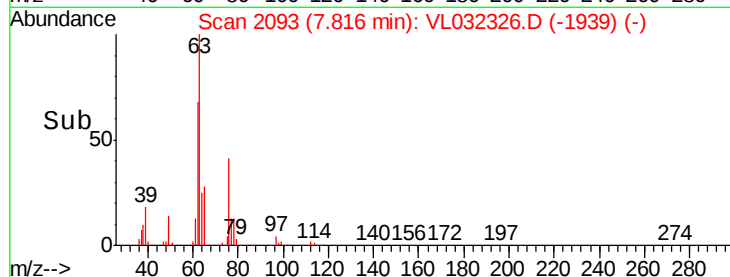
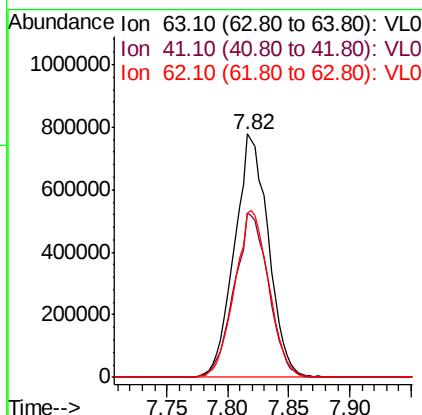
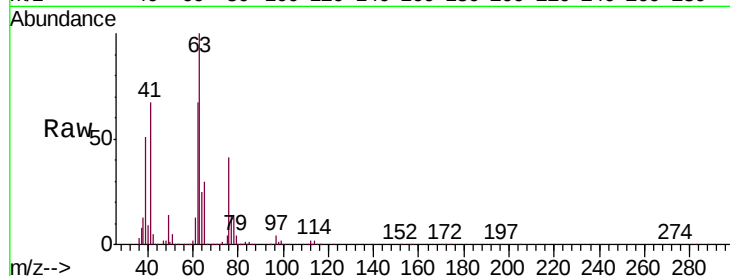
#39
 1,2-Dichloropropane
 Concen: 9.01 ppbv
 RT: 7.82 min Scan# 2093
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 63 Resp: 1494442
 Ion Ratio Lower Upper
 63 100
 41 67.3 52.5 78.7
 62 67.5 54.6 81.8

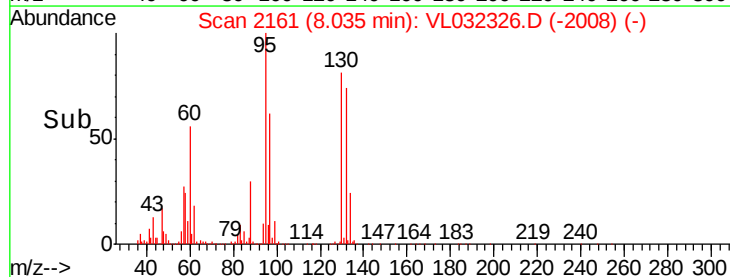
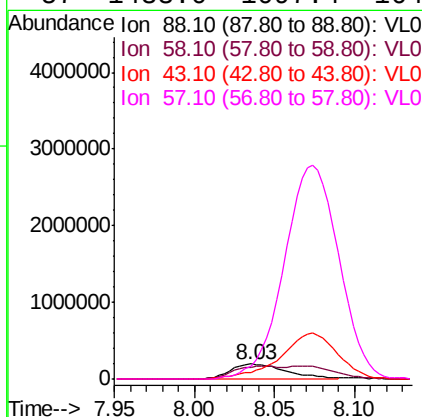
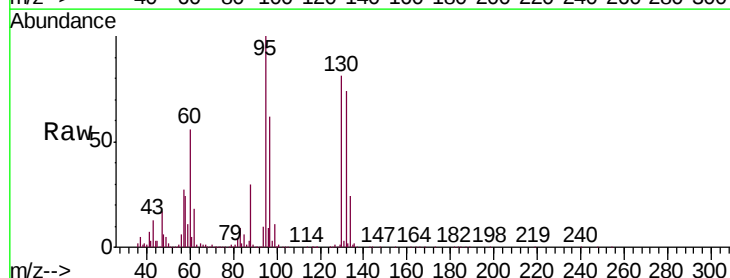
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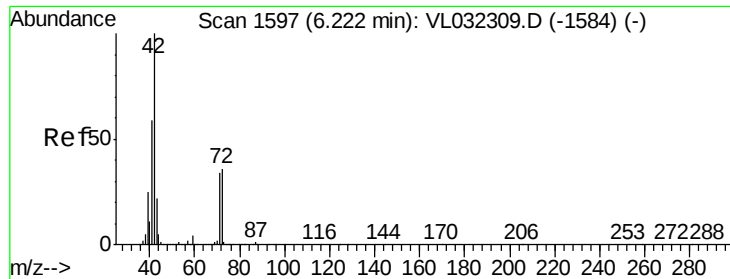
MMDadoda
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#40
 1,4-Dioxane
 Concen: 9.59 ppbv
 RT: 8.03 min Scan# 2161
 Delta R.T. -0.01 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Tgt Ion: 88 Resp: 467227
 Ion Ratio Lower Upper
 88 100
 58 150.3 120.5 180.7
 43 319.3 246.2 369.2
 57 1433.0 1097.4 1646.2





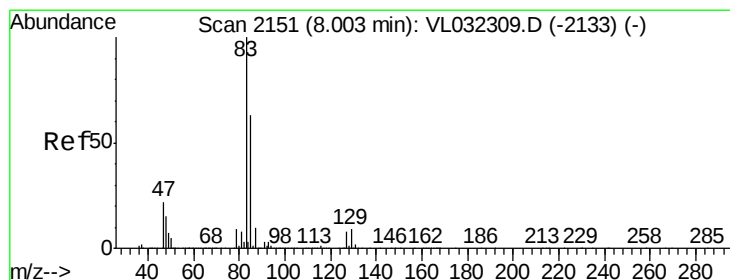
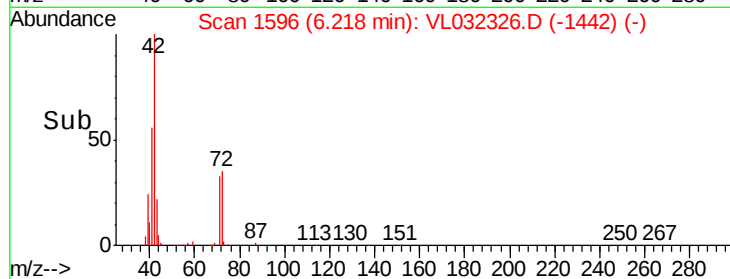
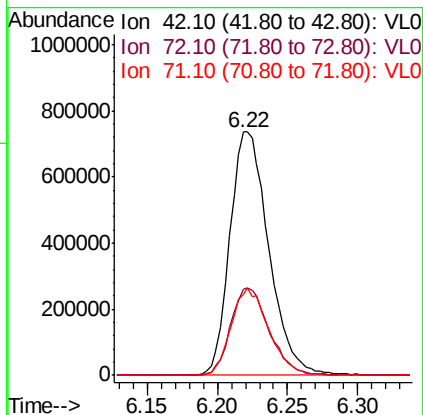
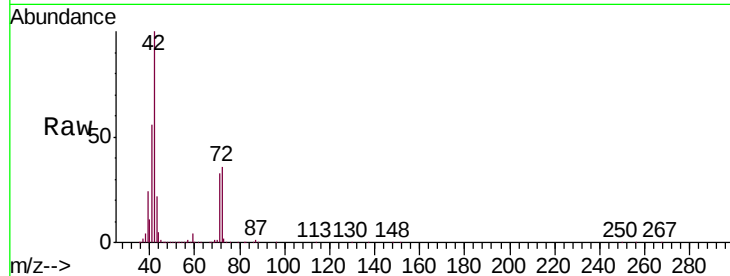
#41
Tetrahydrofuran
Concen: 10.36 ppbv
RT: 6.22 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.8	28.6	42.8
71	34.7	27.8	41.6

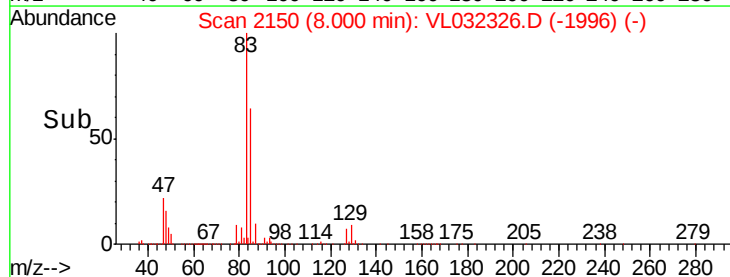
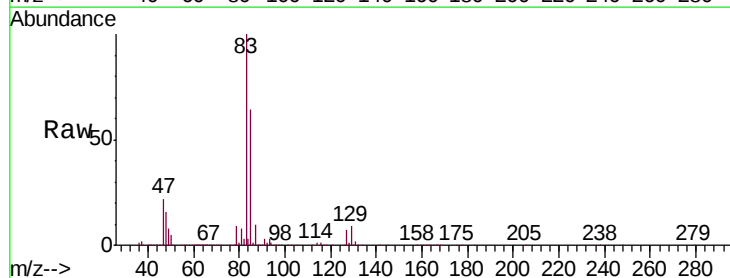
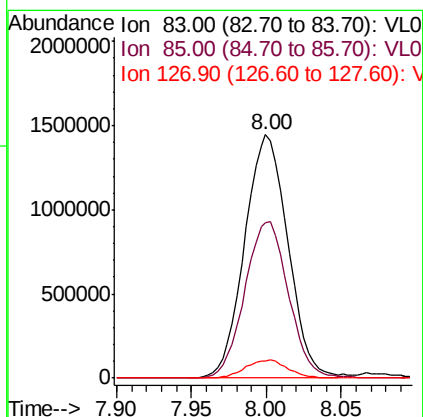
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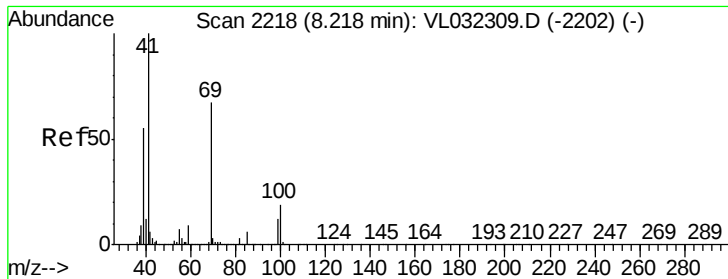
MMDadoda
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#42
Bromodichloromethane
Concen: 9.42 ppbv
RT: 8.00 min Scan# 2150
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.7	76.1
127	6.7	6.0	9.0





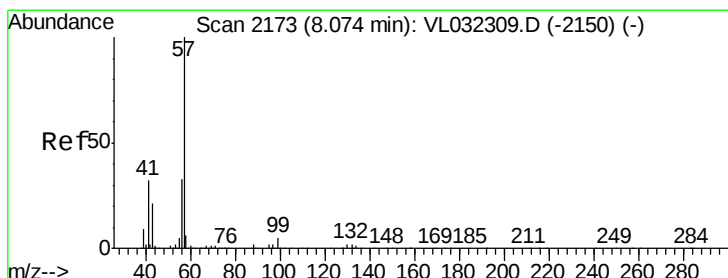
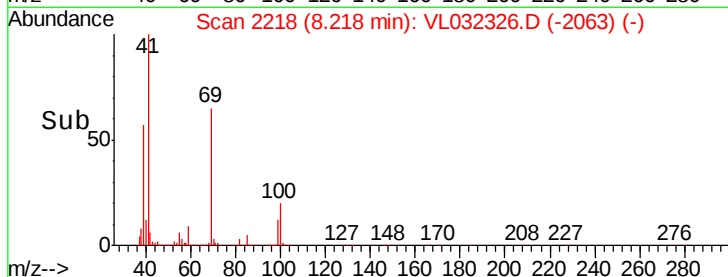
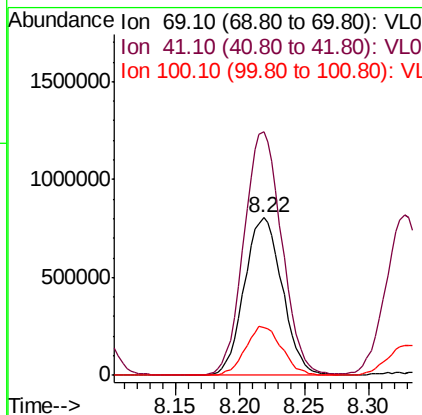
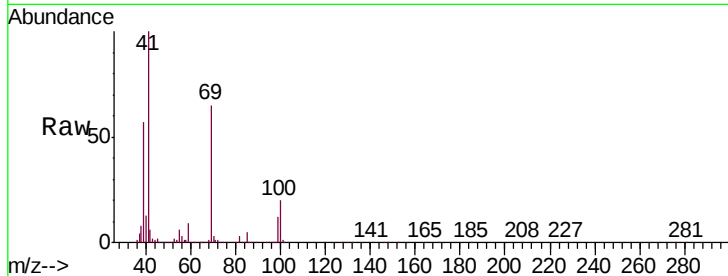
#43
Methvl Methacrvlate
Concen: 10.44 ppbv
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1652409
Ion Ratio Lower Upper
69 100
41 153.9 120.6 180.8
100 30.0 23.2 34.8

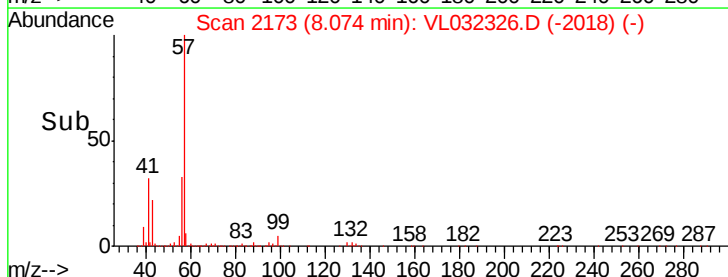
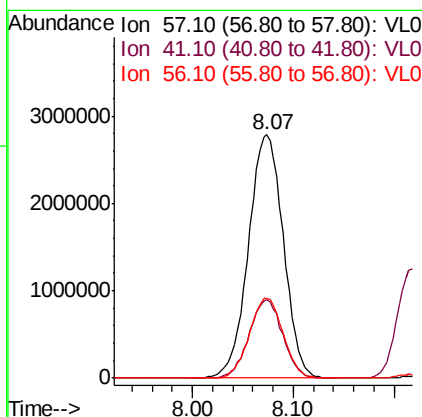
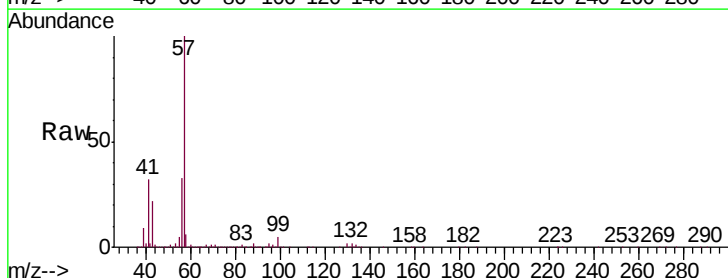
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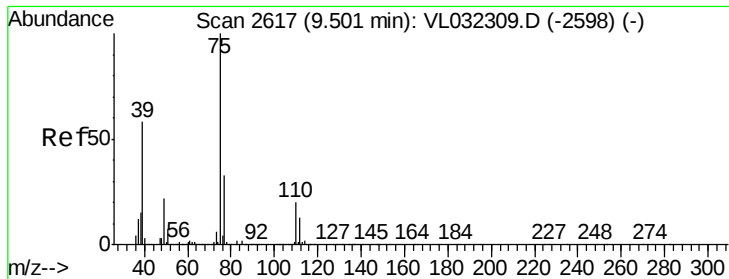
MMDadoda
7/30/2018 11:43:21 AM



#44
2,2,4-Trimethylpentane
Concen: 9.35 ppbv
RT: 8.07 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion: 57 Resp: 6686108
Ion Ratio Lower Upper
57 100
41 30.9 24.3 36.5
56 31.7 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 11.11 ppbv

RT: 9.50 min Scan# 2617

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 2038722

Ion Ratio Lower Upper

75 100

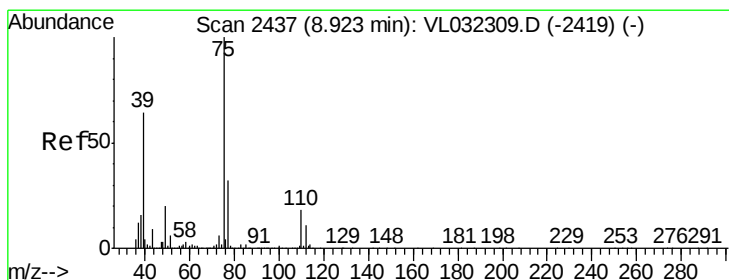
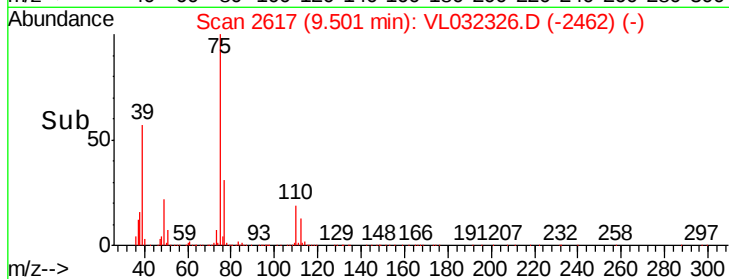
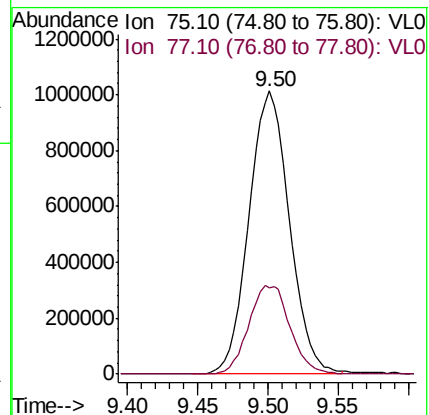
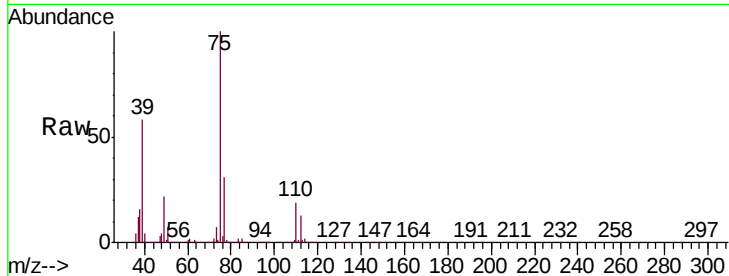
77 30.5 26.2 39.4

Manual Integrations

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MMDadoda

7/30/2018 11:43:21 AM



#46

cis-1,3-Dichloropropene

Concen: 10.74 ppbv

RT: 8.92 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

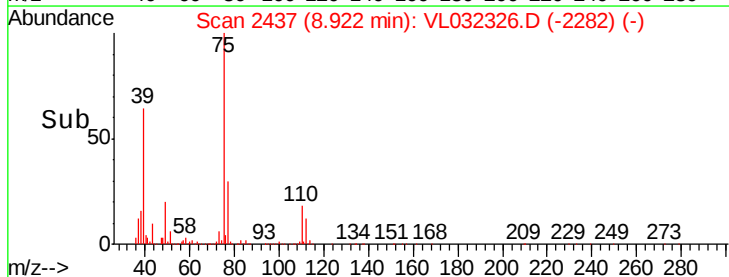
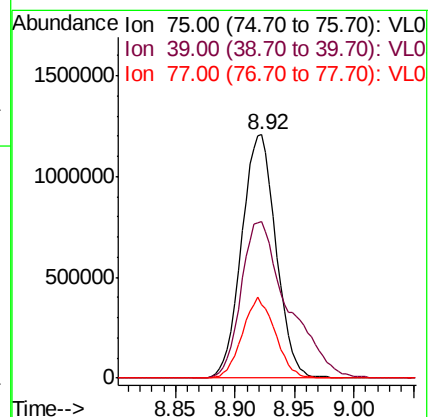
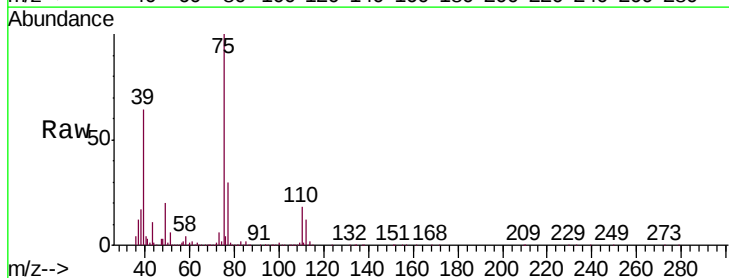
Tgt Ion: 75 Resp: 2414116

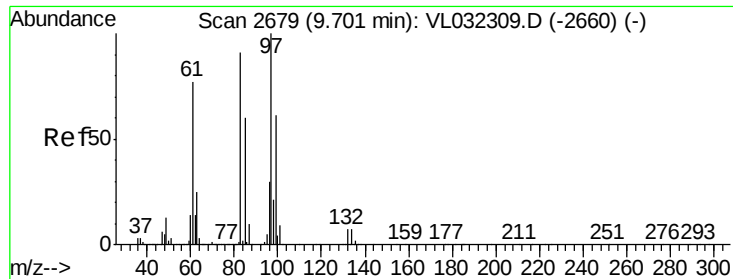
Ion Ratio Lower Upper

75 100

39 64.3 50.9 76.3

77 30.3 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 9.04 ppbv

RT: 9.70 min Scan# 2679

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1458663

Ion Ratio Lower Upper

97 100

83 89.9 73.0 109.6

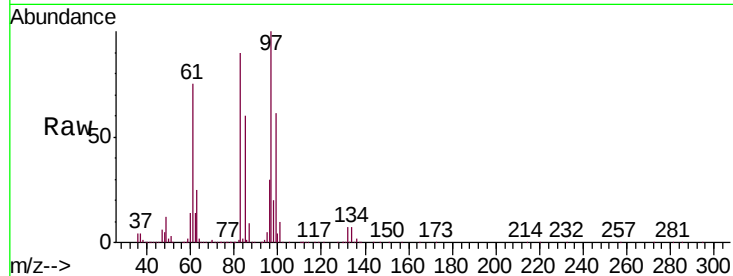
85 59.6 48.1 72.1

99 61.0 48.5 72.7

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MMDadoda

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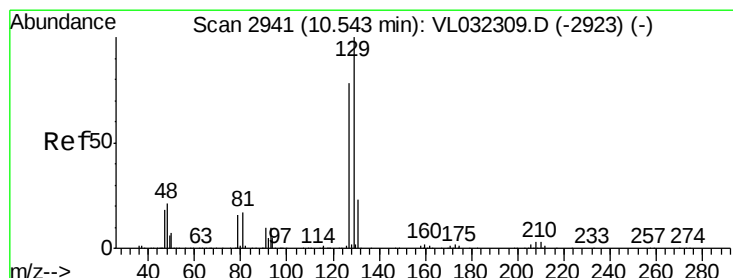
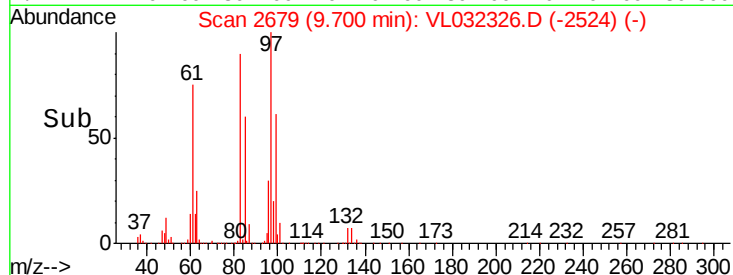
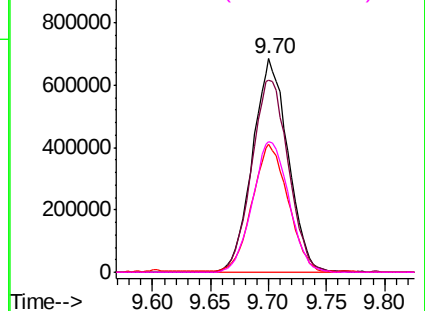
Abundance

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: 9.64 ppbv

RT: 10.54 min Scan# 2940

Delta R.T. -0.00 min

Lab File: VL032326.D

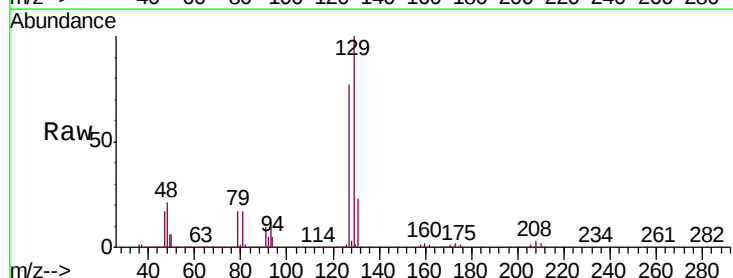
Acq: 27 Jul 2018 19:53

Tgt Ion: 129 Resp: 2292963

Ion Ratio Lower Upper

129 100

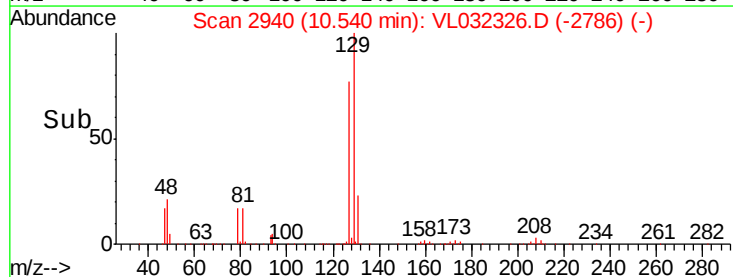
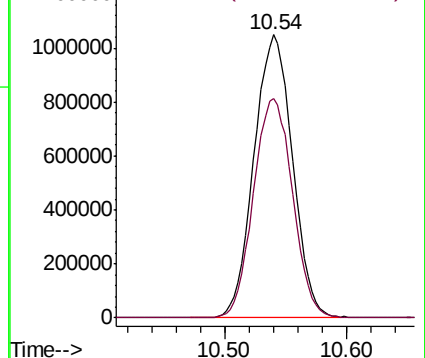
127 78.9 39.5 118.3

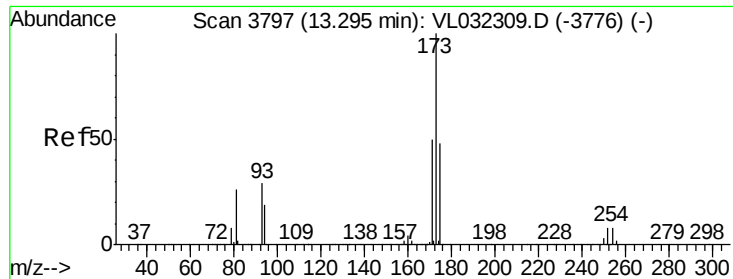


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





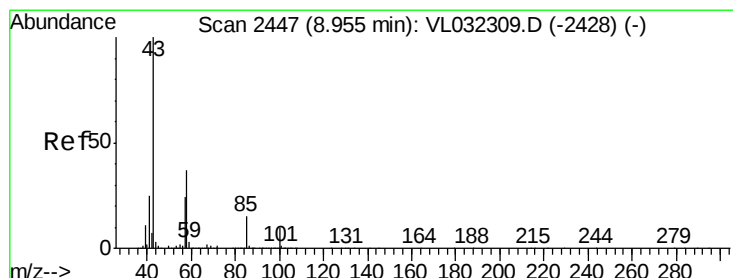
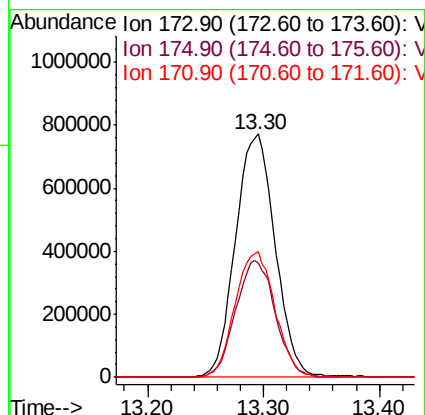
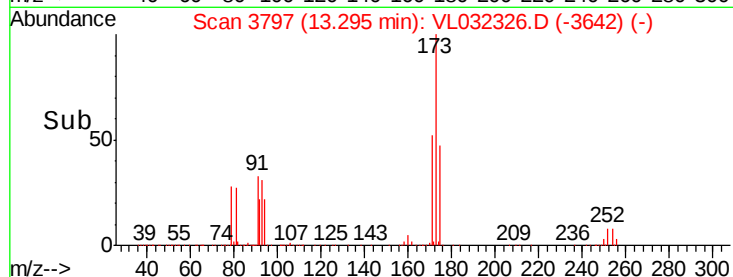
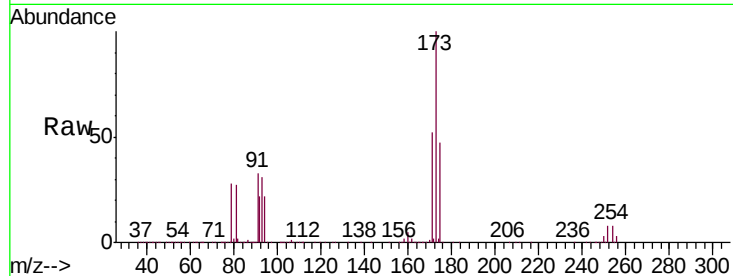
#49
Bromoform
Concen: 9.36 ppbv
RT: 13.30 min Scan# 3797
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1831676
Ion Ratio Lower Upper
173 100
175 48.6 38.9 58.3
171 52.3 42.2 63.2

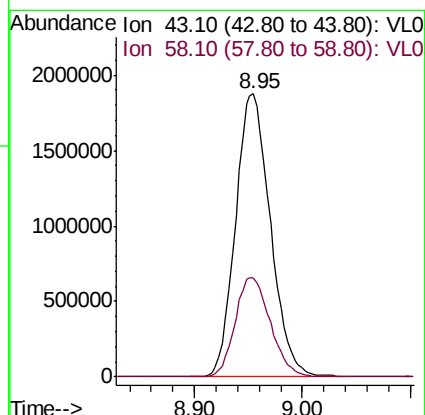
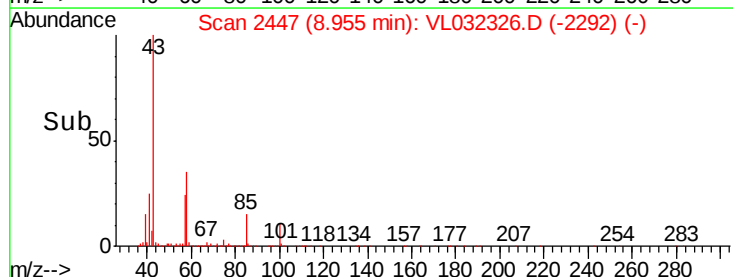
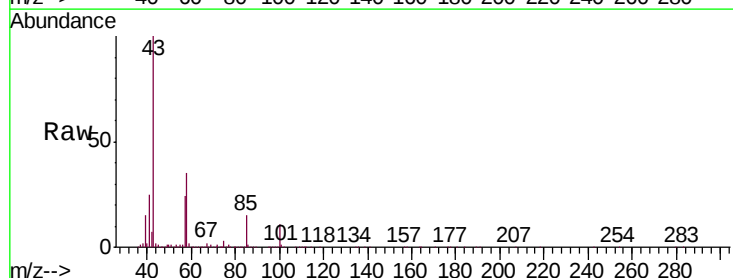
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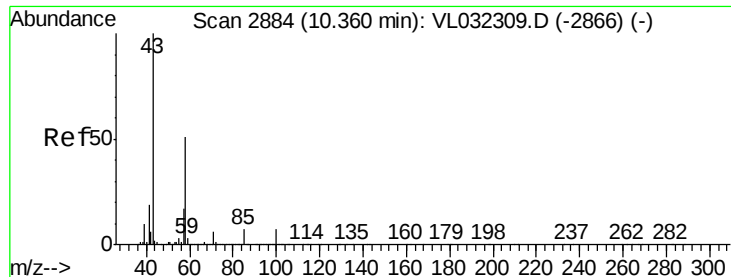
MMDadoda
7/30/2018 11:43:21 AM



#50
4-Methyl-2-Pentanone
Concen: 9.86 ppbv
RT: 8.95 min Scan# 2447
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion: 43 Resp: 4214188
Ion Ratio Lower Upper
43 100
58 35.6 28.9 43.3





#51

2-Hexanone

Concen: 10.56 ppbv

RT: 10.36 min Scan# 2883

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3439803

Ion Ratio Lower Upper

43 100

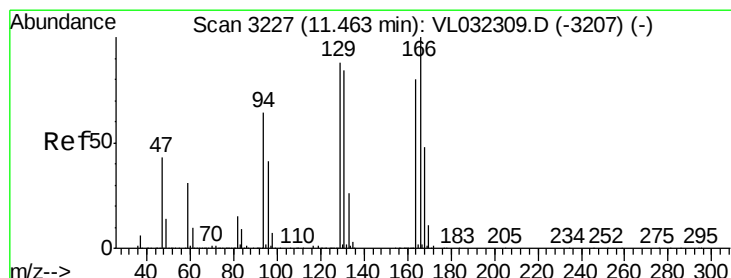
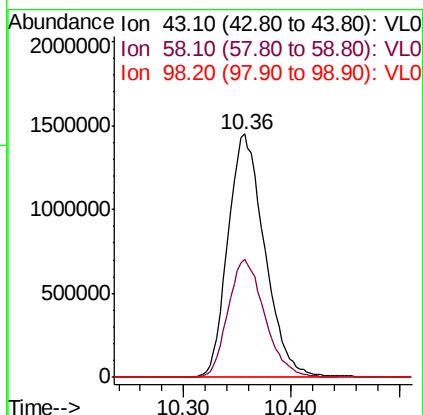
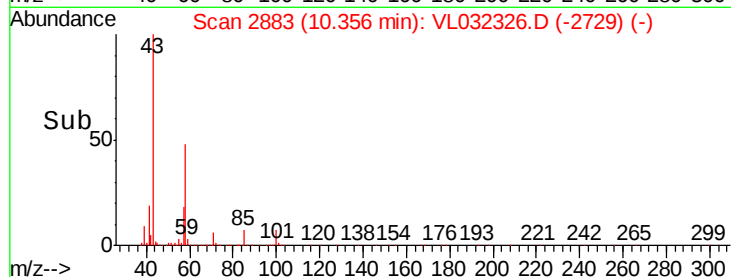
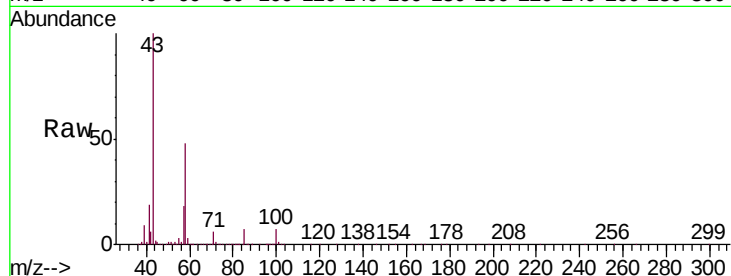
58 48.7 39.1 58.7

98 0.2 0.3 0.5#

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#52

Tetrachloroethene

Concen: 10.28 ppbv

RT: 11.46 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Tgt Ion:164 Resp: 1142327

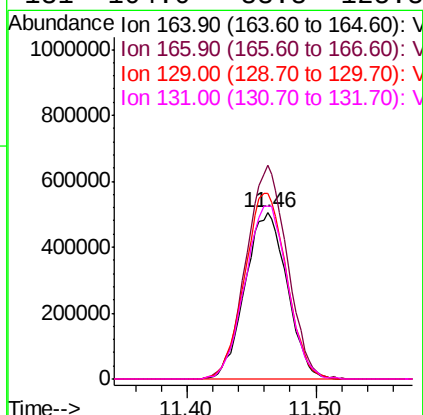
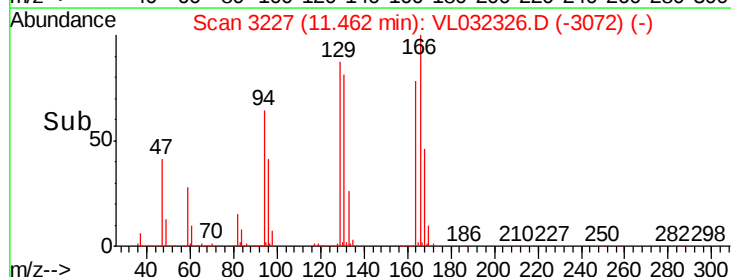
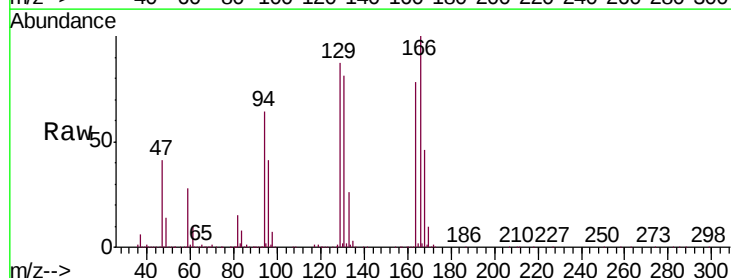
Ion Ratio Lower Upper

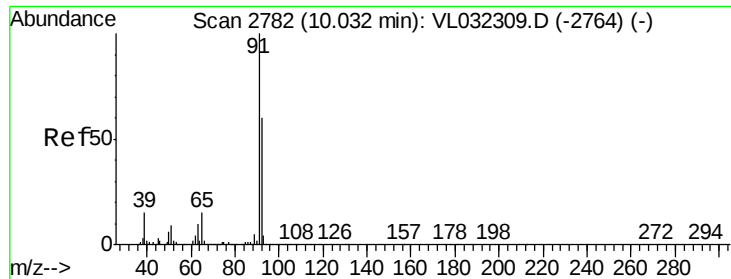
164 100

166 128.7 100.0 150.0

129 111.6 87.9 131.9

131 104.0 83.8 125.8





#53

Toluene

Concen: 10.92 ppbv

RT: 10.03 min Scan# 2783

Delta R.T. 0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4305821

Ion Ratio Lower Upper

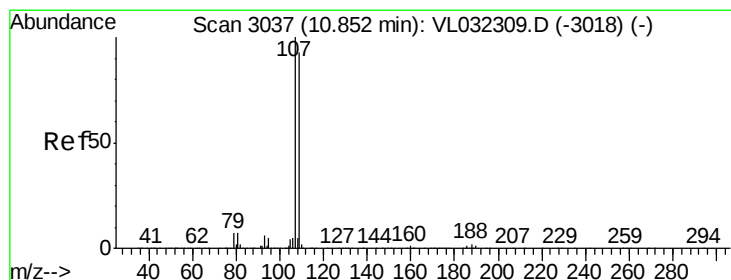
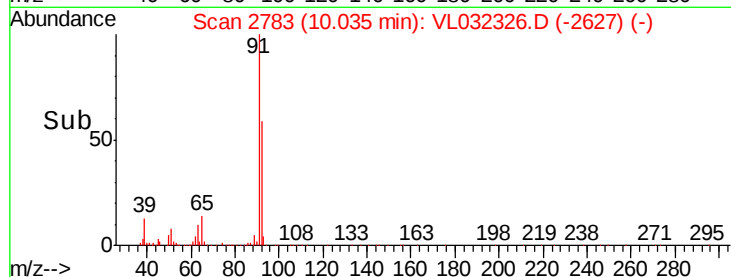
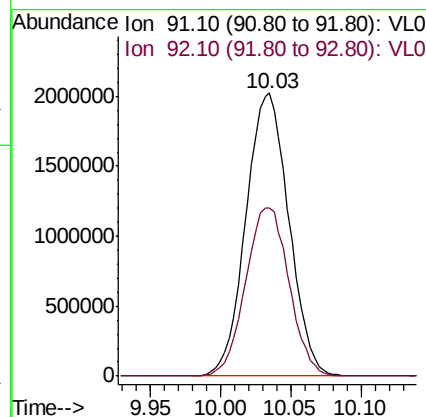
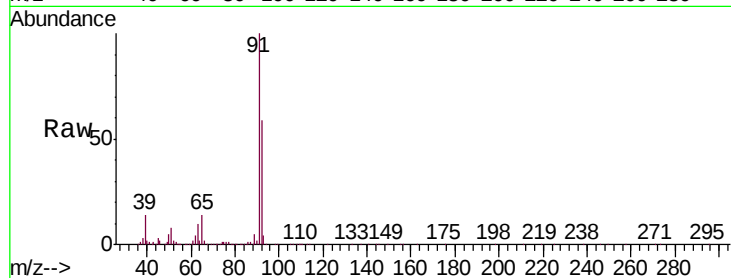
91 100

92 60.5 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 9.71 ppbv

RT: 10.85 min Scan# 3036

Delta R.T. -0.00 min

Lab File: VL032326.D

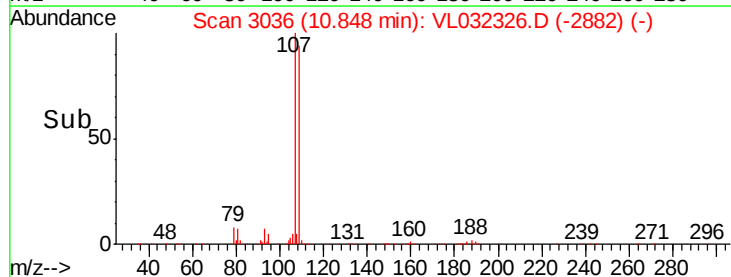
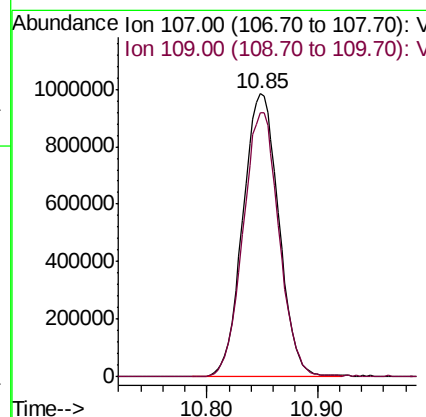
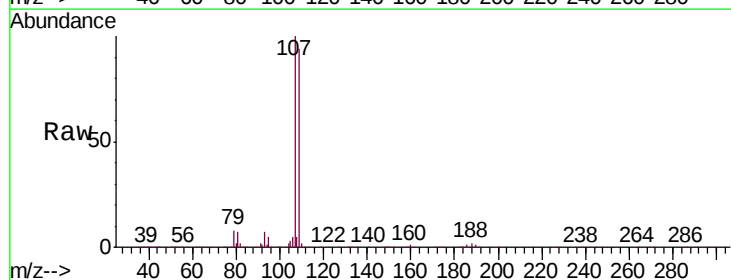
Acq: 27 Jul 2018 19:53

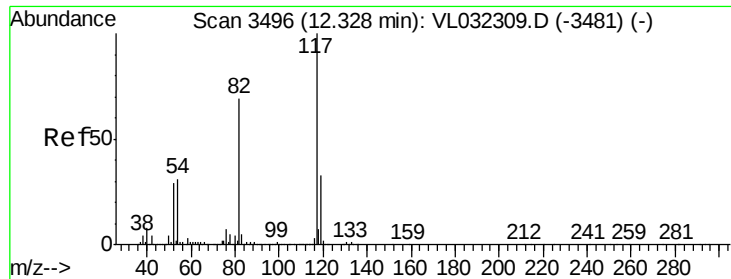
Tgt Ion: 107 Resp: 2224946

Ion Ratio Lower Upper

107 100

109 93.5 74.1 111.1





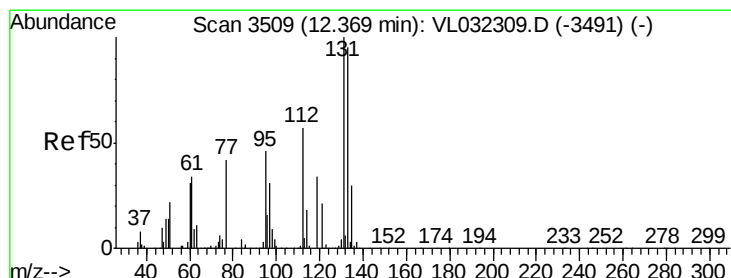
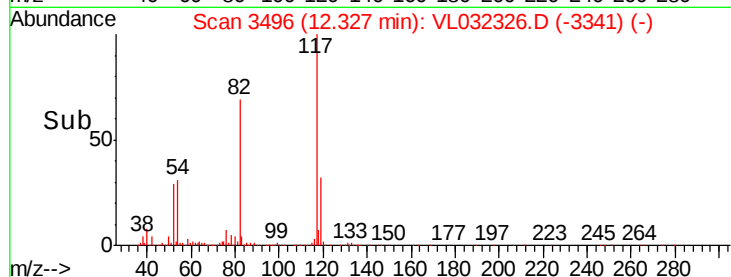
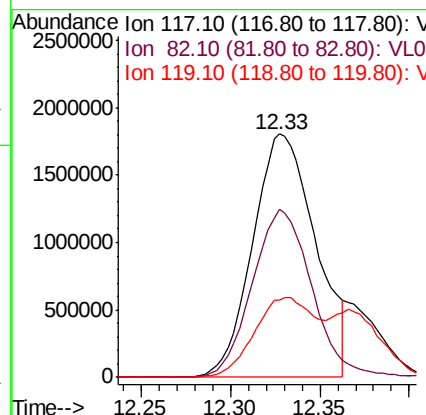
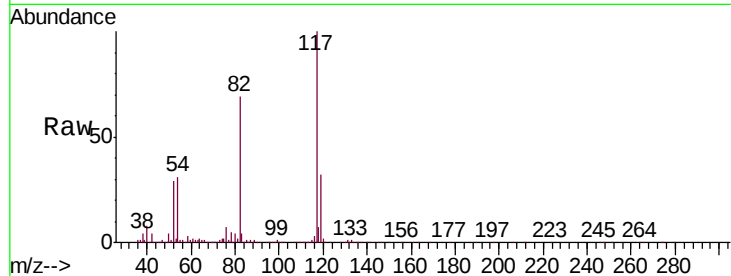
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.33 min Scan# 3496
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.6	52.6	78.8
119	54.0	25.7	38.5#

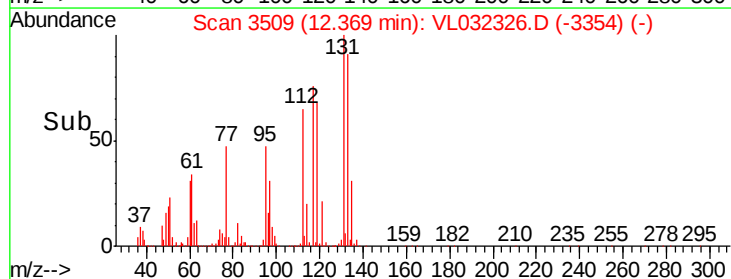
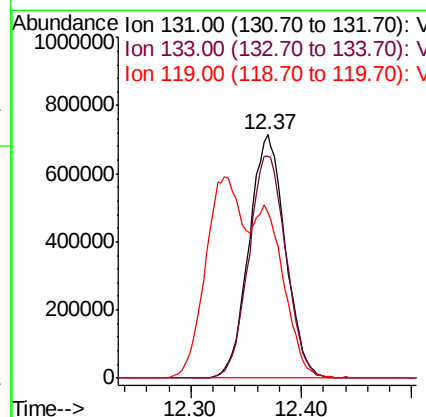
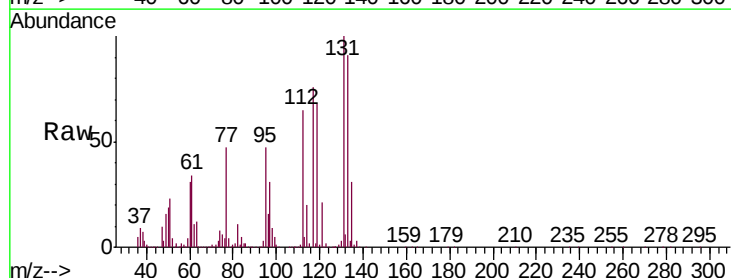
Manual Integrations
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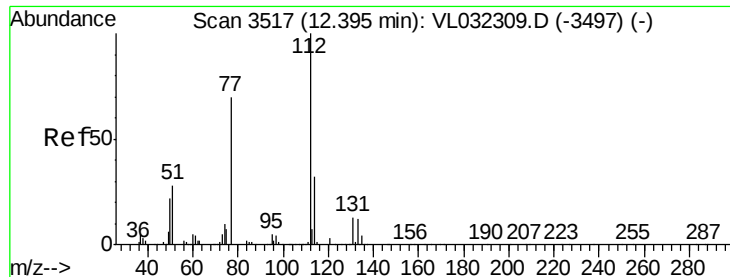
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.84 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.0	75.8	113.6
119	148.2	48.1	72.1#





#57

Chlorobenzene

Concen: 8.74 ppbv

RT: 12.39 min Scan# 3516

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 3025229

Ion Ratio Lower Upper

112 100

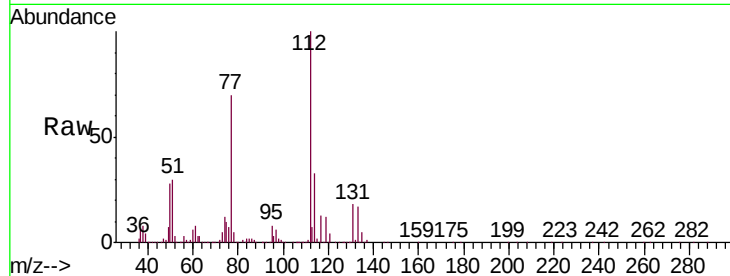
77 69.7 56.5 84.7

114 32.4 28.4 34.7

Manual Integrations
APPROVED

MMDadoda

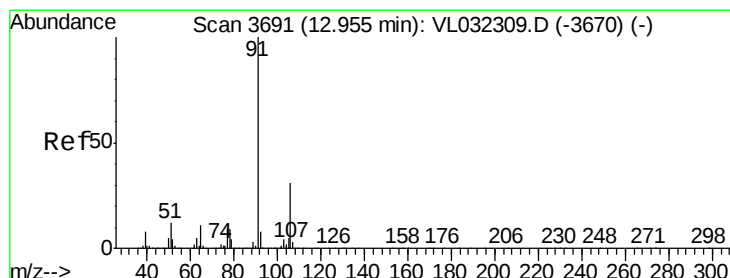
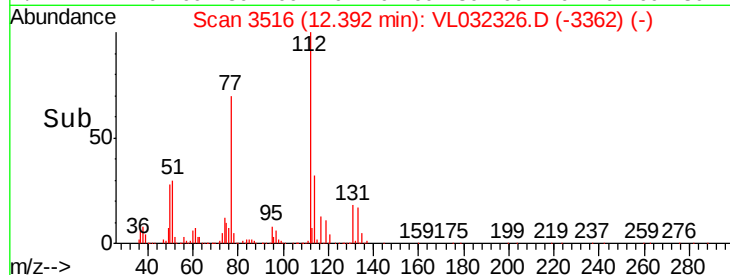
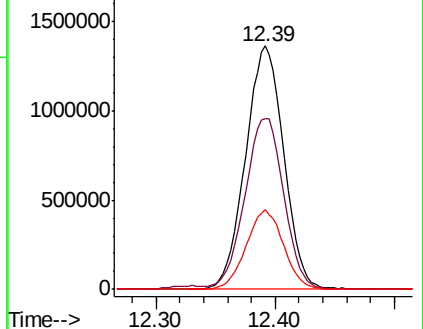
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.19 ppbv

RT: 12.95 min Scan# 3690

Delta R.T. -0.00 min

Lab File: VL032326.D

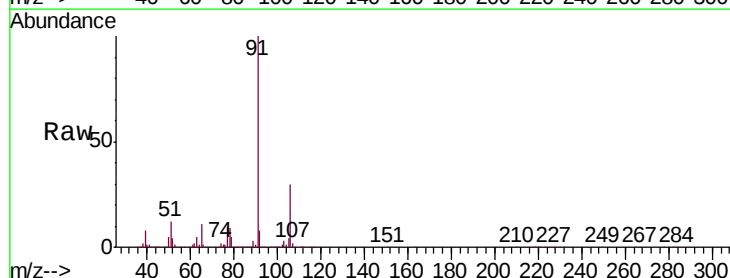
Acq: 27 Jul 2018 19:53

Tgt Ion: 91 Resp: 5690670

Ion Ratio Lower Upper

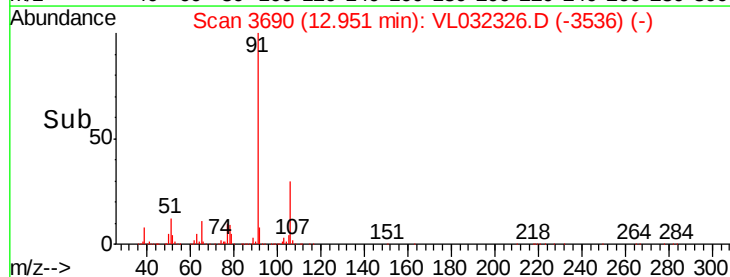
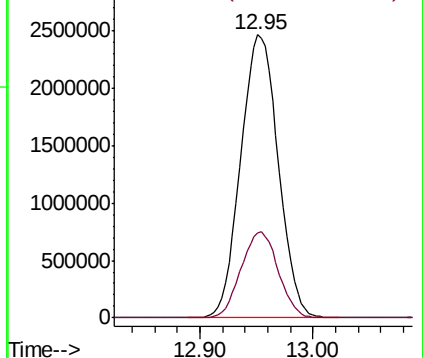
91 100

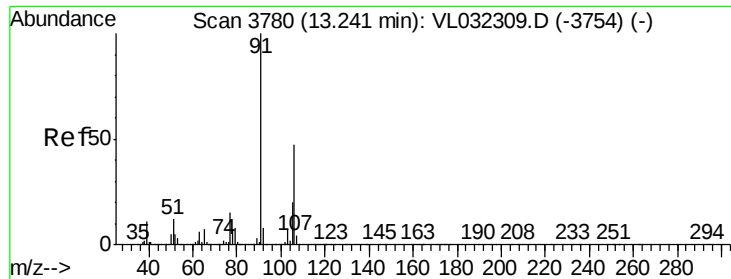
106 30.1 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





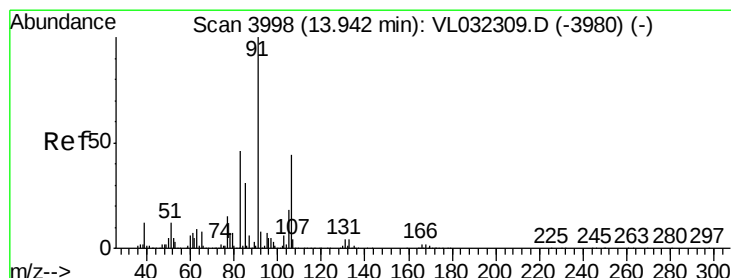
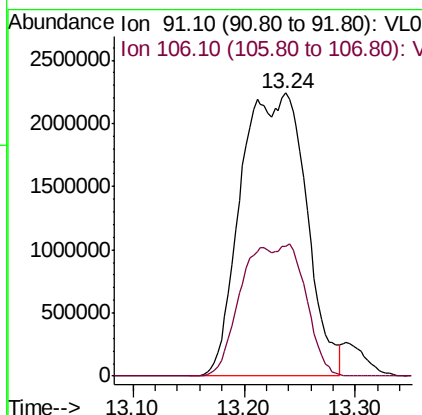
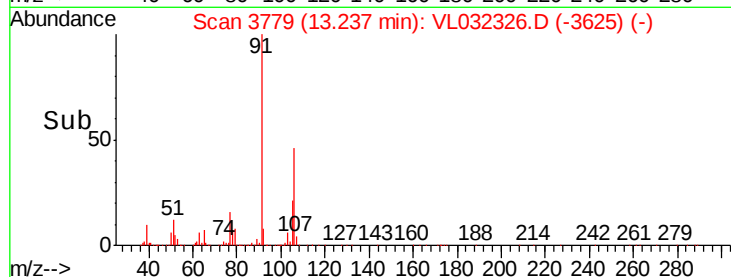
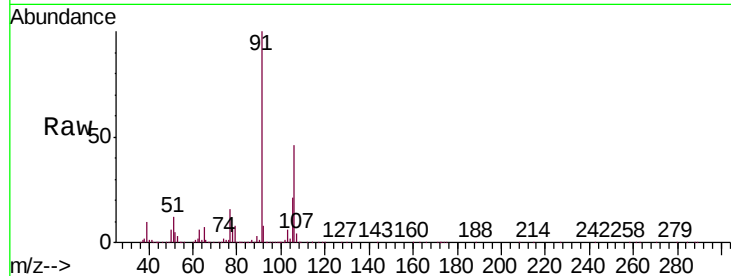
#59
m/p-Xylene
Concen: 19.18 ppbv m
RT: 13.24 min Scan# 3779
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 9116514
Ion Ratio Lower Upper
91 100
106 45.5 36.4 54.6

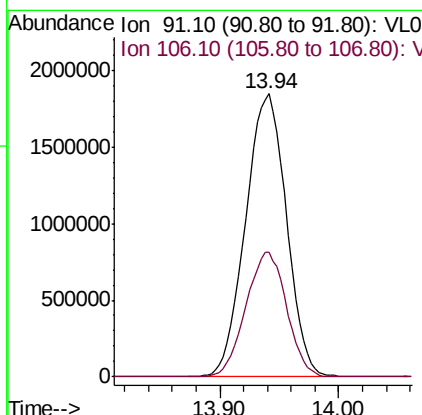
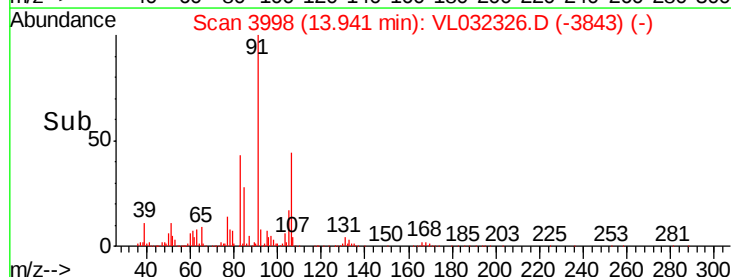
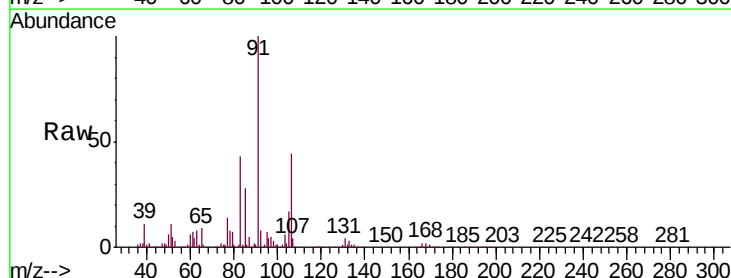
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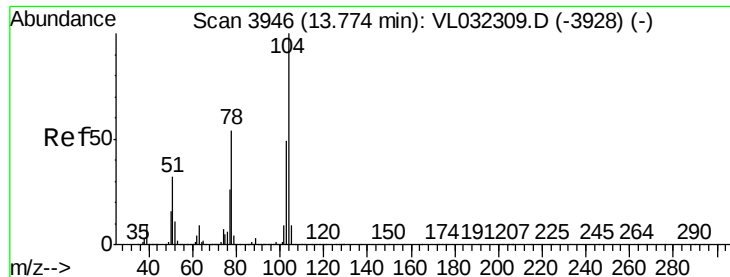
MMDadoda
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#60
o-Xylene
Concen: 9.41 ppbv
RT: 13.94 min Scan# 3998
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion: 91 Resp: 4387312
Ion Ratio Lower Upper
91 100
106 44.1 22.4 67.0





#61

Stvrene

Concen: 10.52 ppbv

RT: 13.77 min Scan# 3946

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 3607420

Ion Ratio Lower Upper

104 100

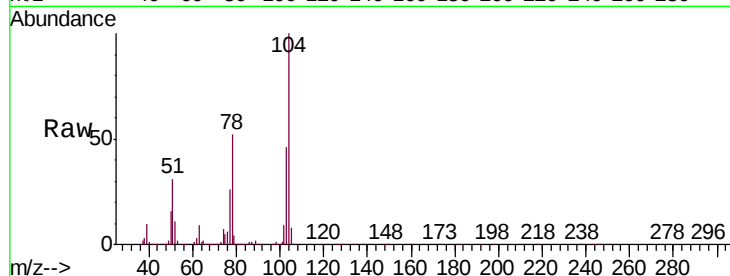
78 52.8 42.6 63.8

103 47.2 38.0 57.0

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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

13.77

2000000

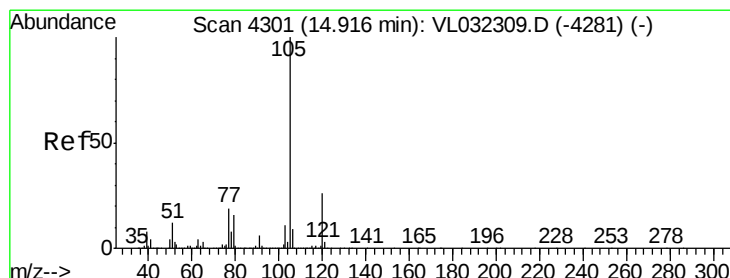
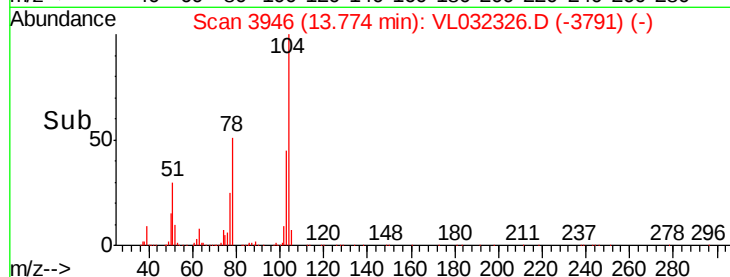
1500000

1000000

500000

0

Time-->



#62

Isopropylbenzene

Concen: 9.48 ppbv

RT: 14.92 min Scan# 4301

Delta R.T. -0.00 min

Lab File: VL032326.D

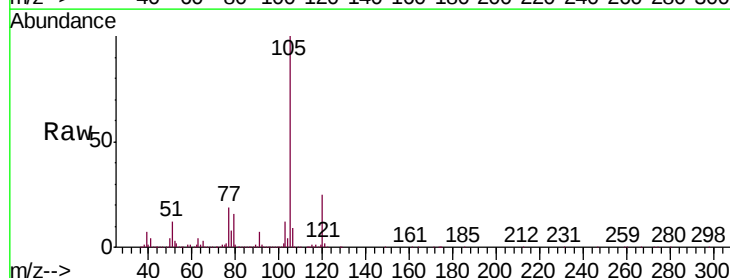
Acq: 27 Jul 2018 19:53

Tgt Ion:105 Resp: 6280077

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.92

3000000

2500000

2000000

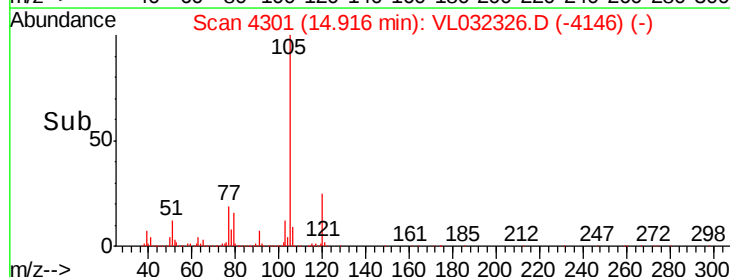
1500000

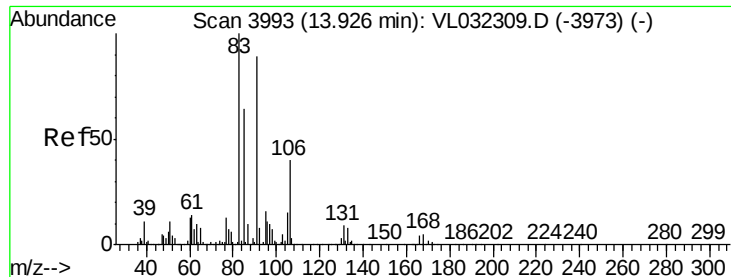
1000000

500000

0

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 8.30 ppbv

RT: 13.92 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 3146496

Ion Ratio Lower Upper

83 100

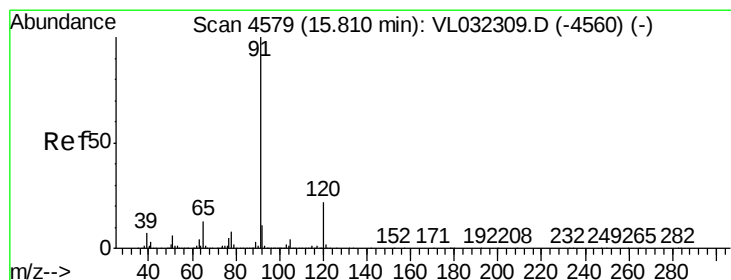
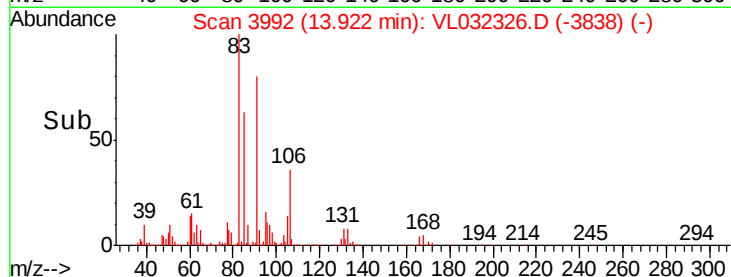
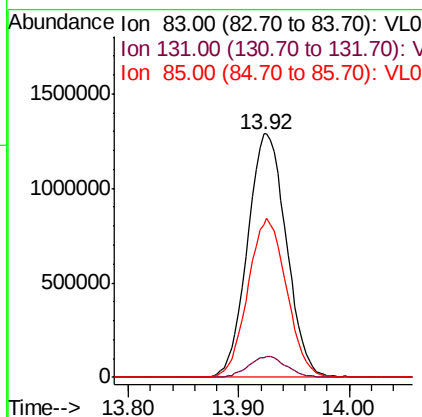
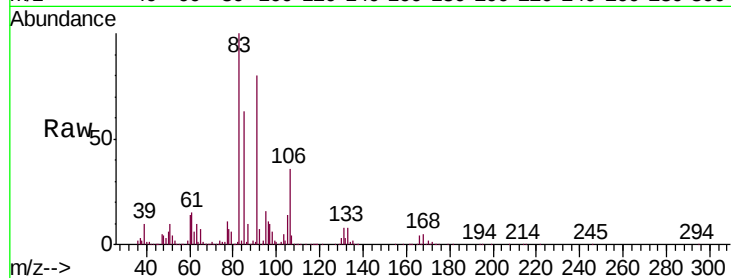
131 8.4 4.3 12.8

85 65.1 32.6 97.7

Manual Integrations
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#64

n-propylbenzene

Concen: 9.41 ppbv

RT: 15.81 min Scan# 4580

Delta R.T. 0.00 min

Lab File: VL032326.D

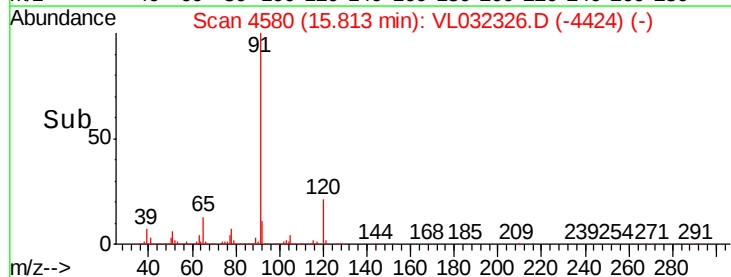
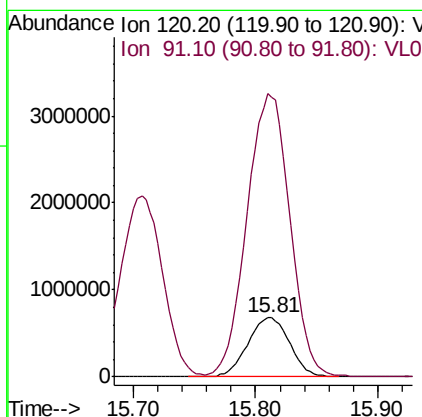
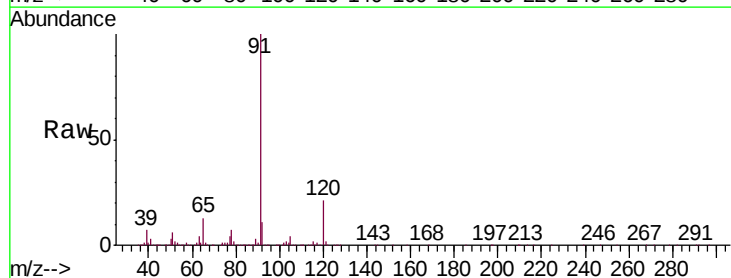
Acq: 27 Jul 2018 19:53

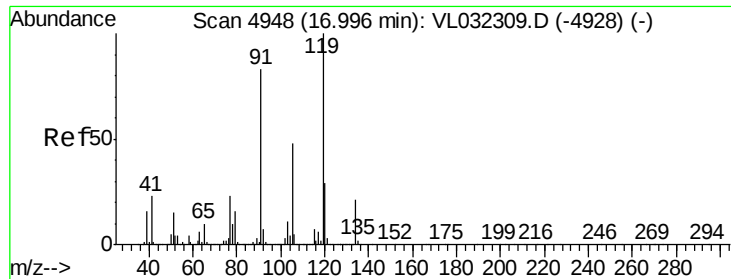
Tgt Ion: 120 Resp: 1621938

Ion Ratio Lower Upper

120 100

91 489.9 381.8 572.8





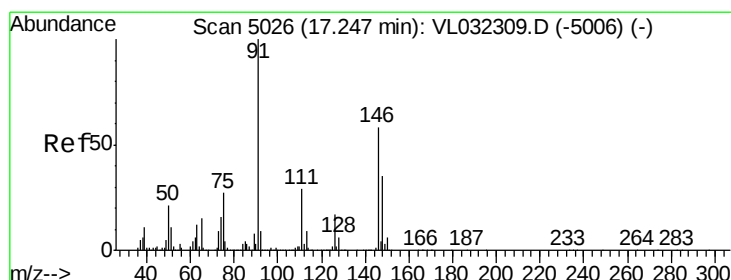
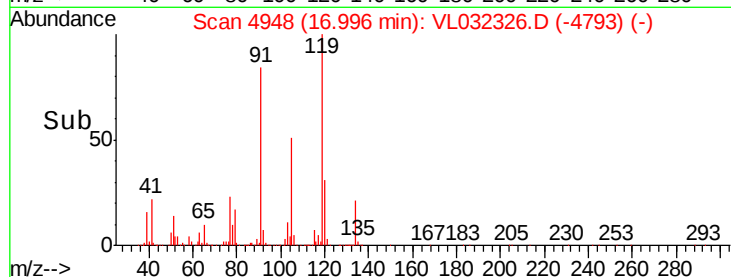
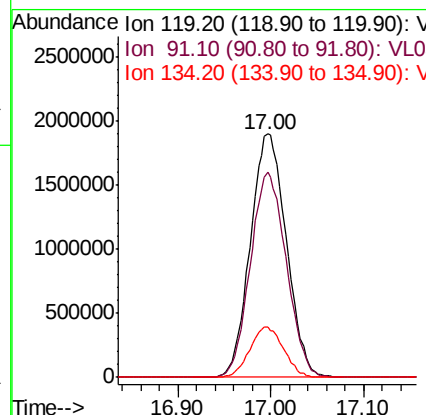
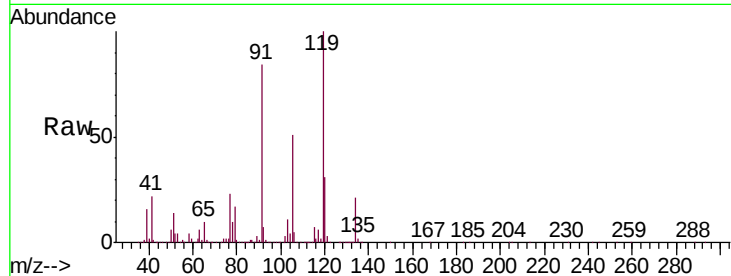
#65
tert-Butylbenzene
Concen: 9.13 ppbv
RT: 17.00 min Scan# 4948
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 5105172
Ion Ratio Lower Upper
119 100
91 84.3 67.5 101.3
134 19.5 15.8 23.6

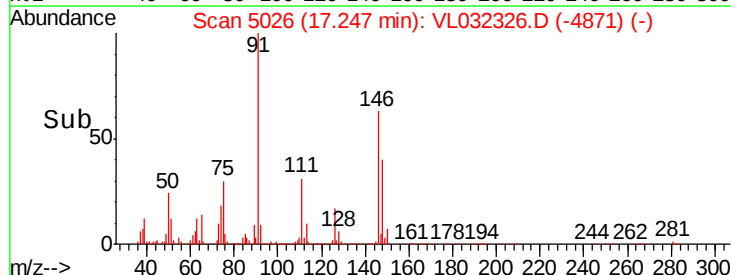
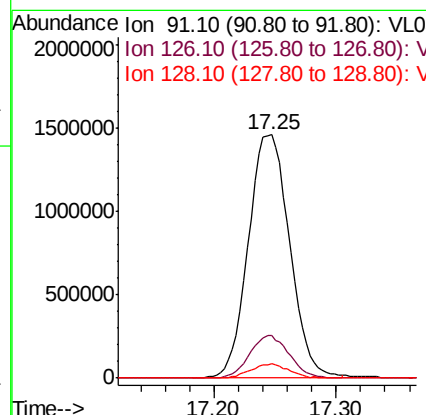
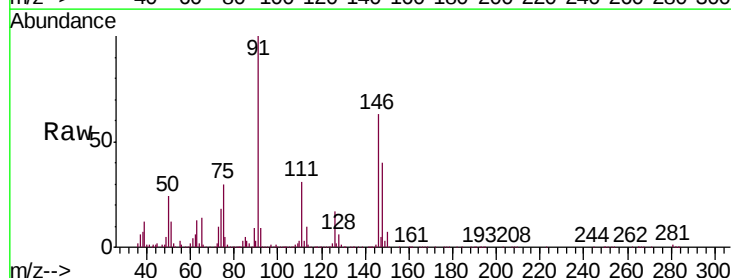
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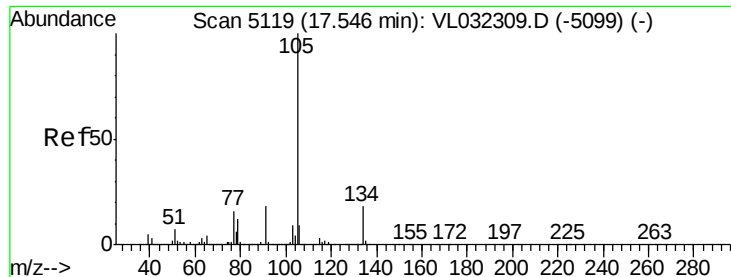
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#66
Benzyl Chloride
Concen: 10.24 ppbv
RT: 17.25 min Scan# 5026
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion: 91 Resp: 3414206
Ion Ratio Lower Upper
91 100
126 17.0 13.7 20.5
128 5.5 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.16 ppbv

RT: 17.55 min Scan# 5120

Delta R.T. 0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 7674294

Ion Ratio Lower Upper

105 100

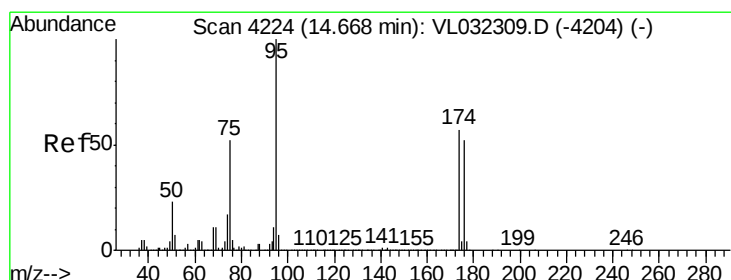
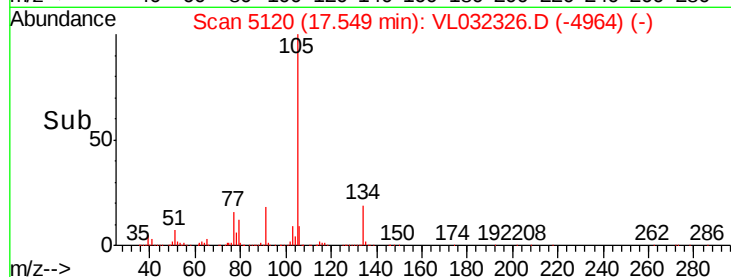
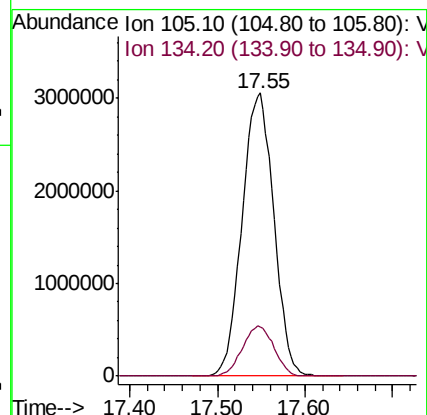
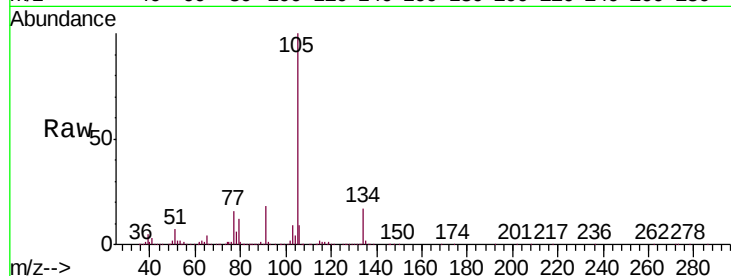
134 17.6 14.2 21.4

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.65 ppbv

RT: 14.66 min Scan# 4223

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

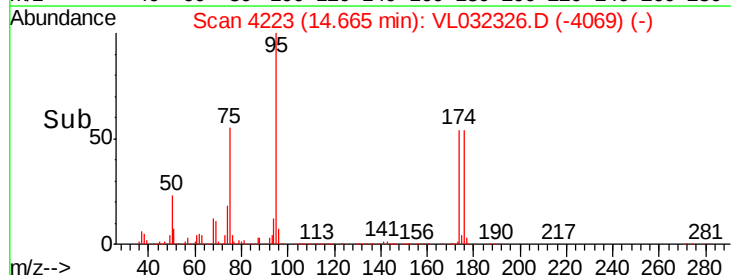
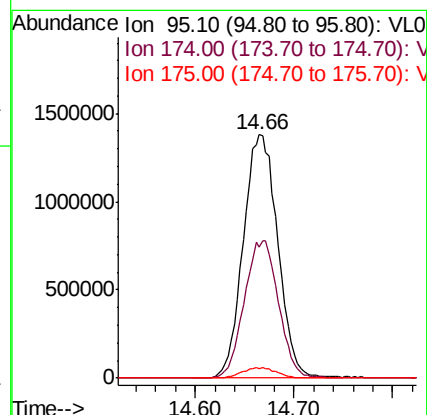
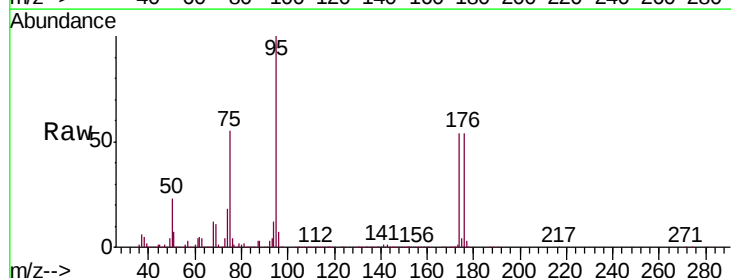
Tgt Ion: 95 Resp: 3335356

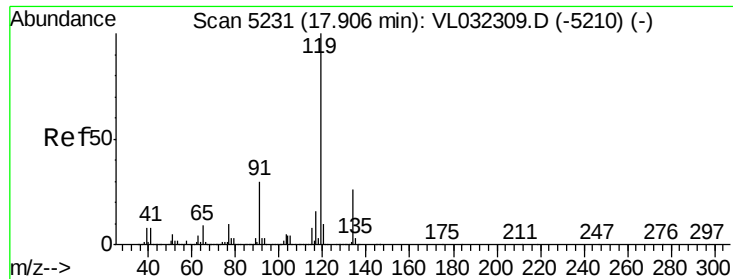
Ion Ratio Lower Upper

95 100

174 56.4 45.5 68.3

175 4.3 3.3 4.9





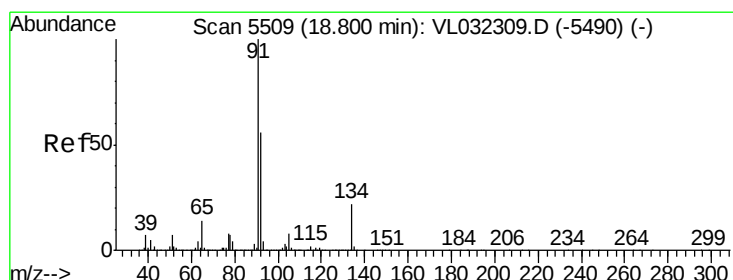
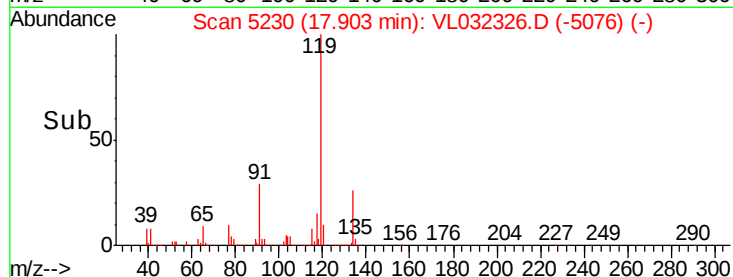
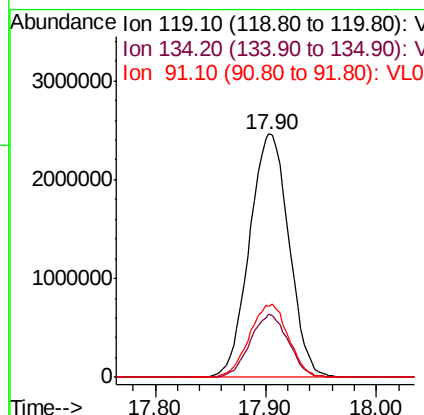
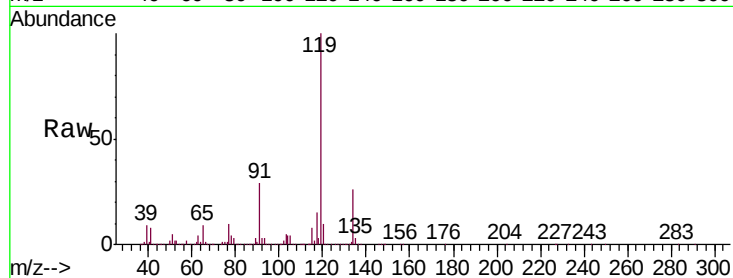
#69
p-Isopropyltoluene
Concen: 9.40 ppbv
RT: 17.90 min Scan# 5230
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.8	23.8	35.6

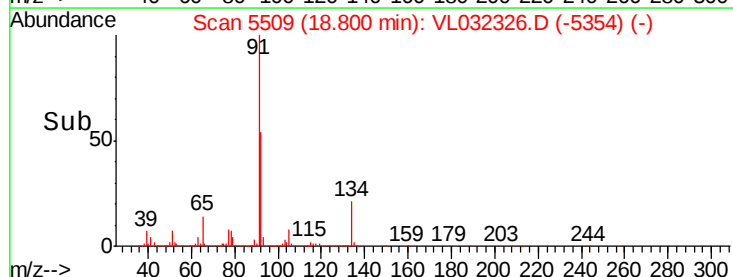
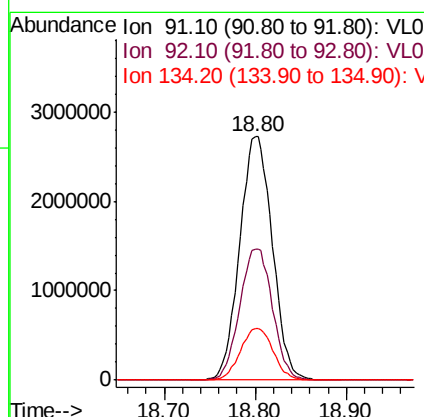
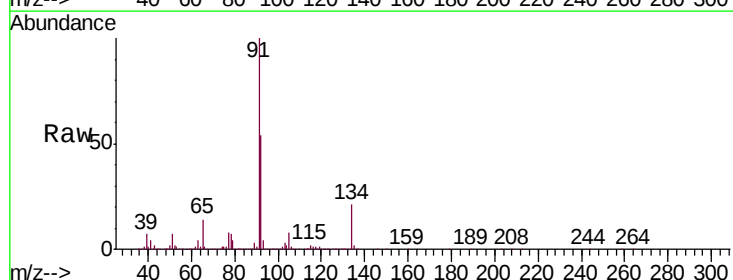
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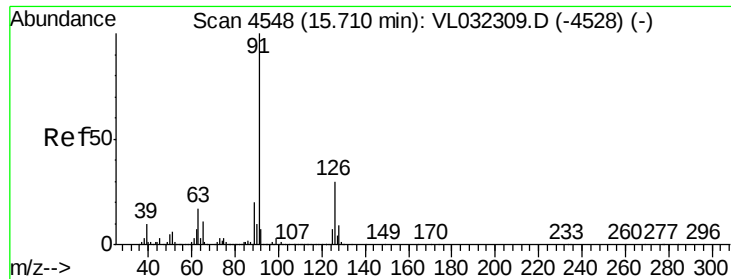
MMDadoda
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#70
n-Butylbenzene
Concen: 9.04 ppbv
RT: 18.80 min Scan# 5509
Delta R.T. -0.00 min
Lab File: VL032326.D
Acq: 27 Jul 2018 19:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.1	44.2	66.4
134	21.4	17.4	26.2





#71

2-Chlorotoluene

Concen: 9.59 ppbv

RT: 15.71 min Scan# 4547

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4980584

Ion Ratio Lower Upper

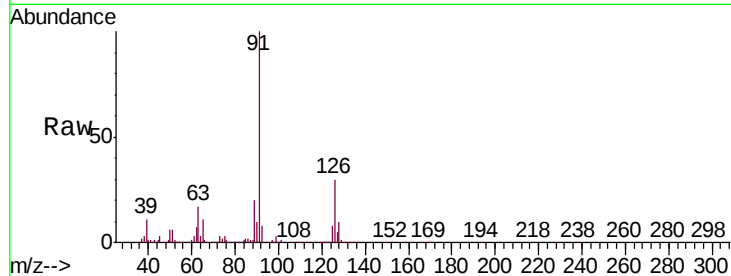
91 100

126 29.7 11.8 47.0

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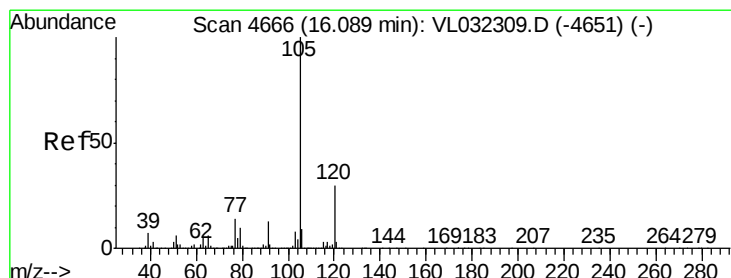
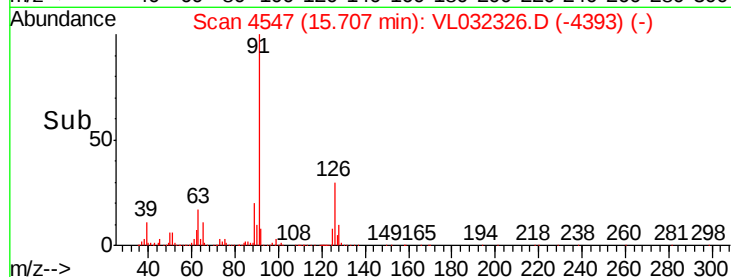
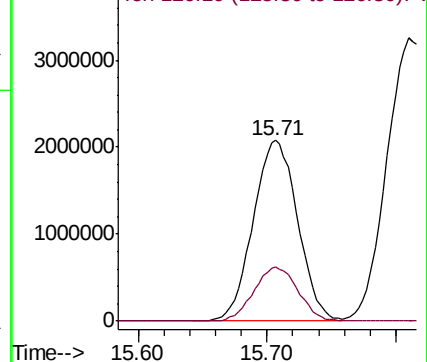
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.00 ppbv

RT: 16.09 min Scan# 4665

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Tgt Ion: 105 Resp: 5223730

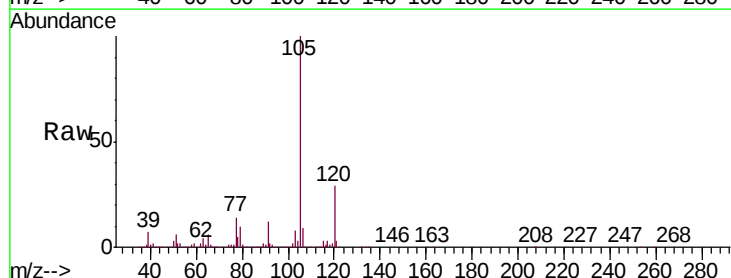
Ion Ratio Lower Upper

105 100

120 28.8 23.1 34.7

91 12.5 10.0 15.0

77 14.0 11.5 17.3

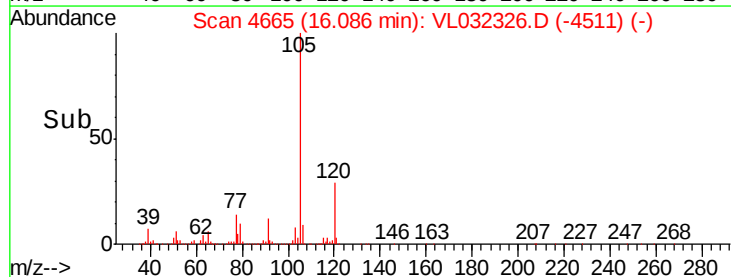
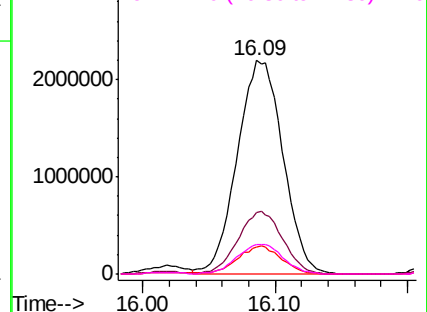


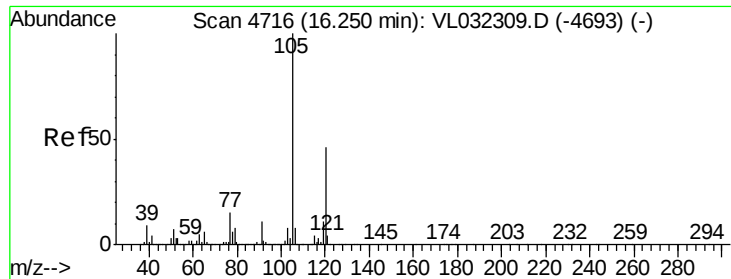
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.57 ppbv

RT: 16.25 min Scan# 4716

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4920449

Ion Ratio Lower Upper

105 100

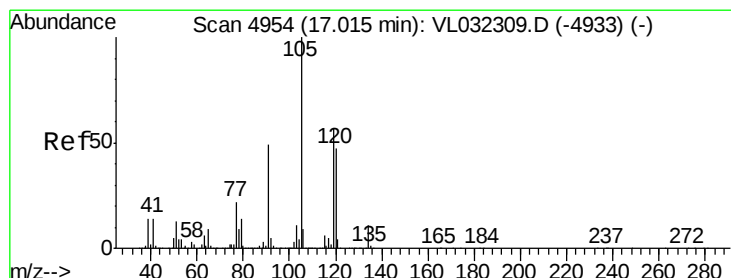
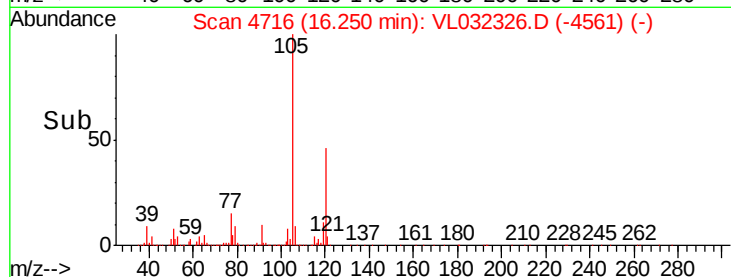
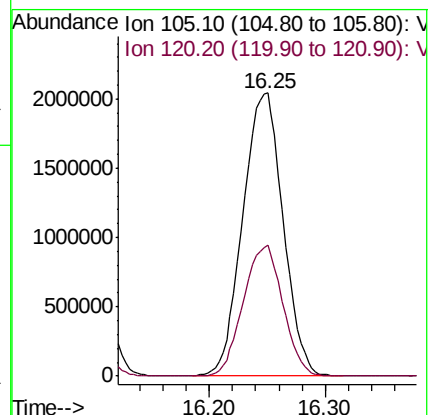
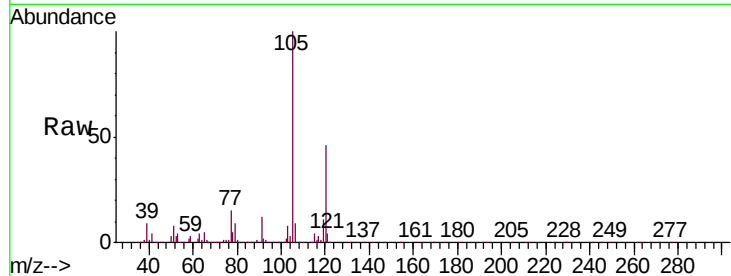
120 46.2 36.5 54.7

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#74

1,2,4-Trimethylbenzene

Concen: 8.94 ppbv

RT: 17.02 min Scan# 4954

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Tgt Ion:105 Resp: 4843134

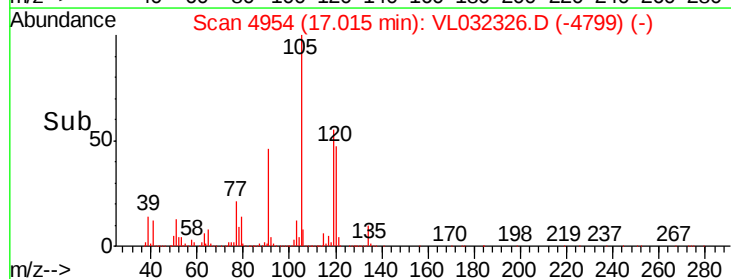
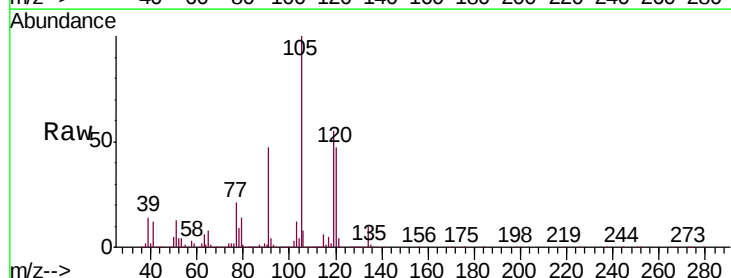
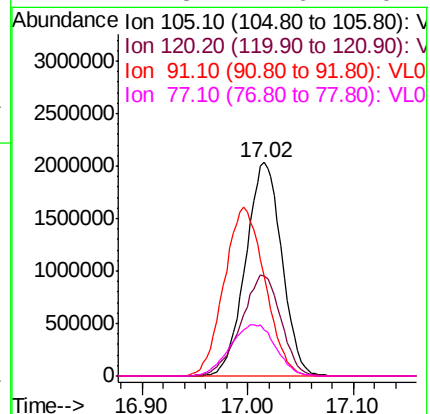
Ion Ratio Lower Upper

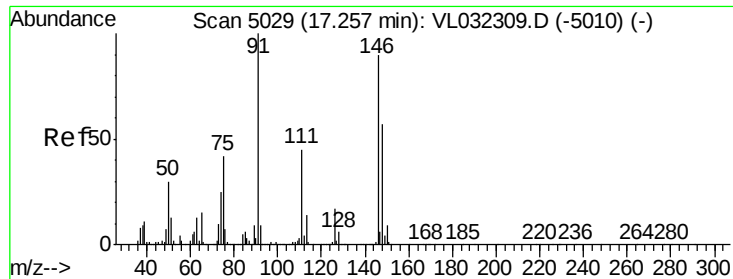
105 100

120 46.6 37.8 56.6

91 46.5 39.4 59.0

77 21.3 17.6 26.4





#75

1,3-Dichlorobenzene

Concen: 8.38 ppbv

RT: 17.26 min Scan# 5029

Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2630099

Ion Ratio Lower Upper

146 100

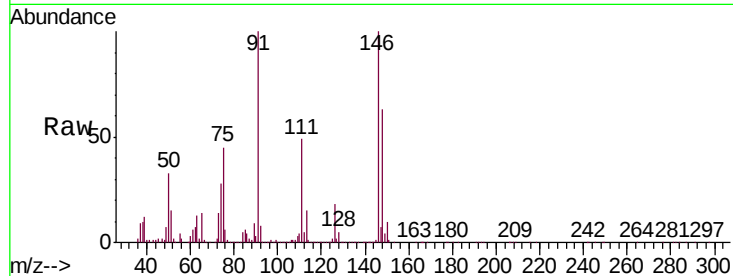
111 48.9 24.6 73.8

148 63.8 31.6 95.0

Manual Integrations
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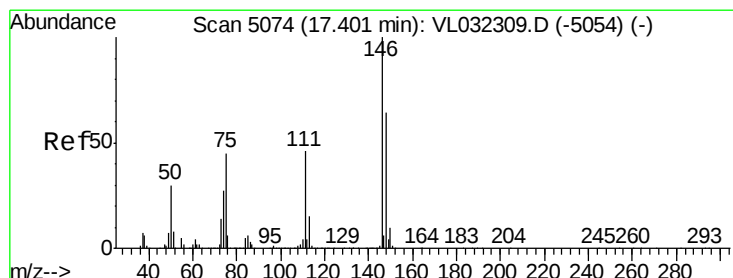
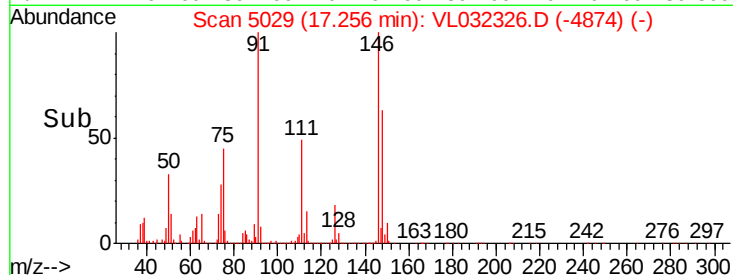
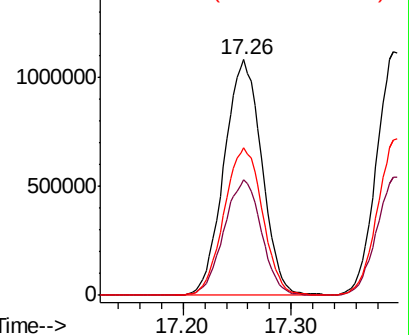
7/30/2018 11:43:21 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.98 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

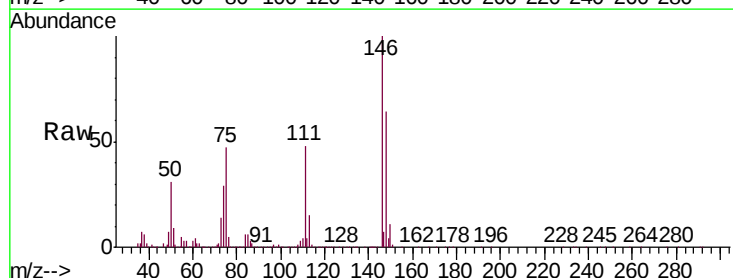
Tgt Ion:146 Resp: 2705378

Ion Ratio Lower Upper

146 100

111 47.9 23.6 70.8

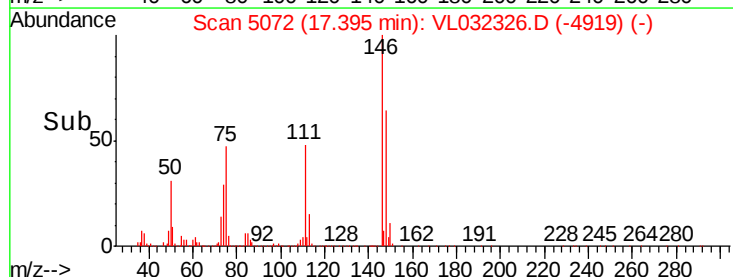
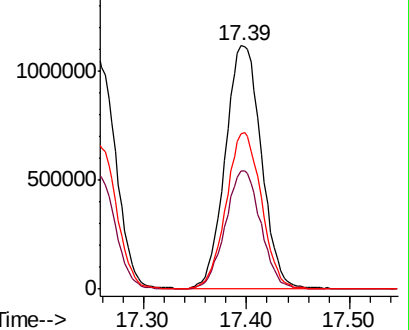
148 63.2 32.1 96.3

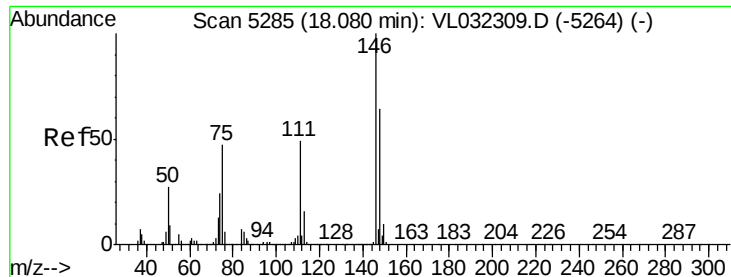


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





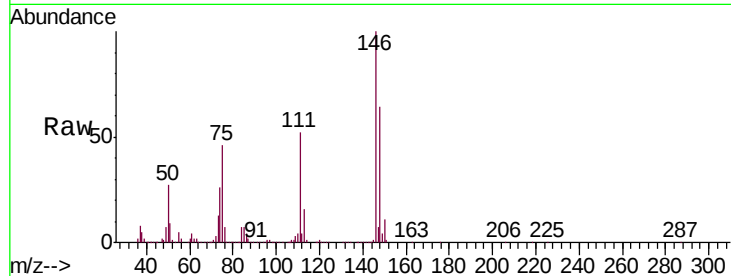
#77
 1,2-Dichlorobenzene
 Concen: 8.45 ppbv
 RT: 18.08 min Scan# 5284
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

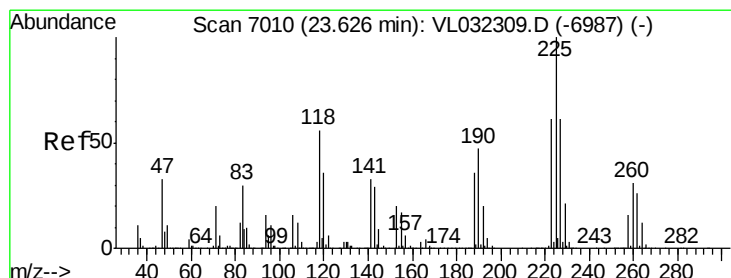
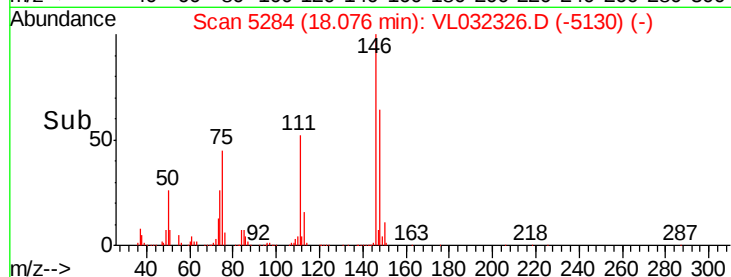
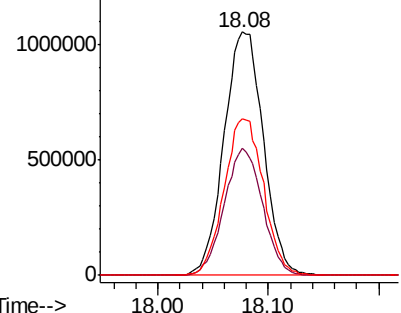
Tot Ion:146 Resp: 2604626
 Ion Ratio Lower Upper
 146 100
 111 50.9 25.1 75.3
 148 64.4 31.9 95.7

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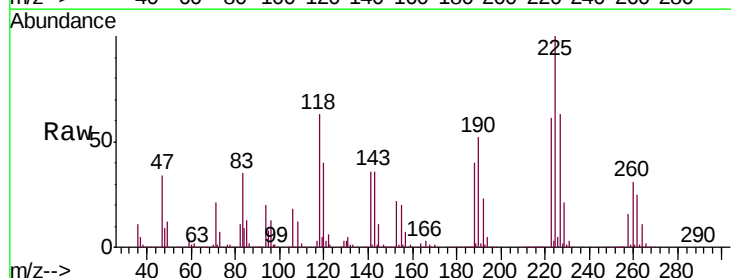


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

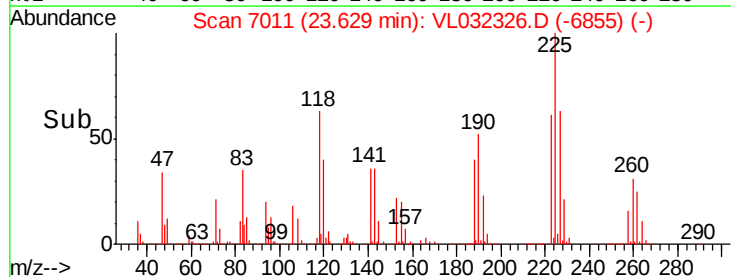
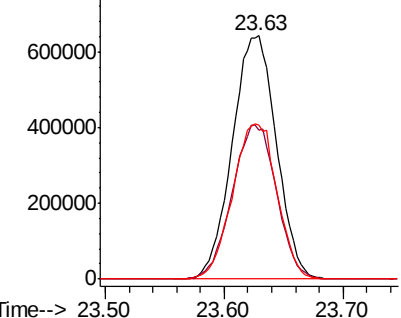


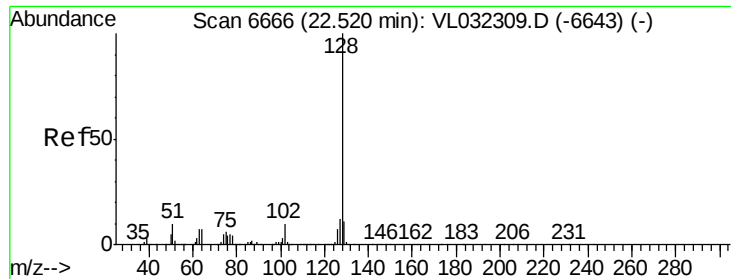
#78
 Hexachloro-1,3-Butadiene
 Concen: 15.24 ppbv
 RT: 23.63 min Scan# 7011
 Delta R.T. 0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Tgt Ion:225 Resp: 1652474
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.5 75.7
 227 64.0 51.3 76.9



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





#79

Naphthalene

Concen: 10.15 ppbv

RT: 22.51 min Scan# 6664

Delta R.T. -0.01 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Instrument :

MSVOA_L

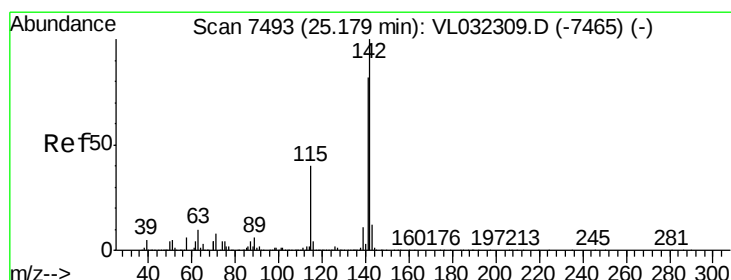
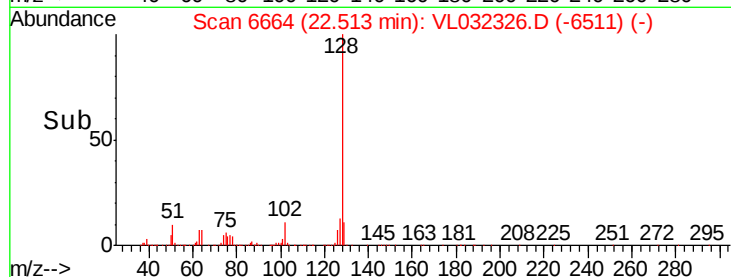
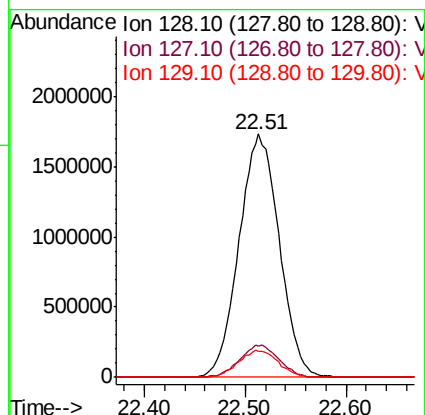
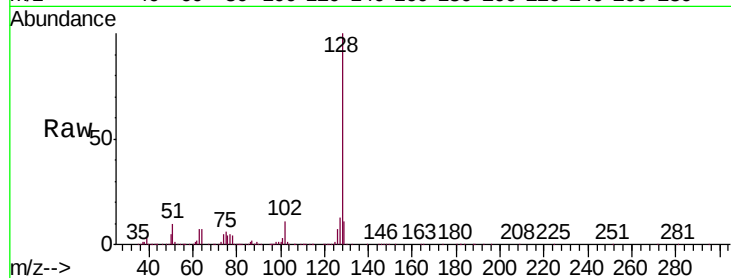
ClientSampleId :

VSTDCCC010EC

Tot Ion:	128	Resp:	4775422
Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.9	14.9
129	10.8	8.8	13.2

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#80

Naphthalene, 2-methyl-

Concen: 12.28 ppbv

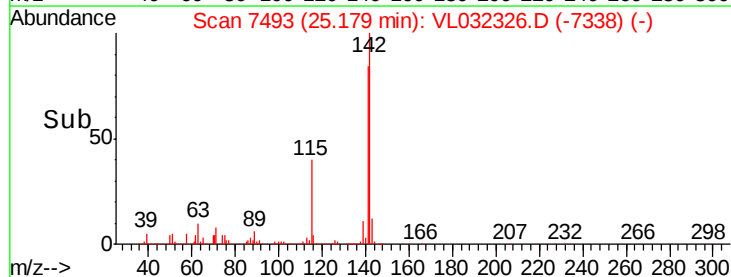
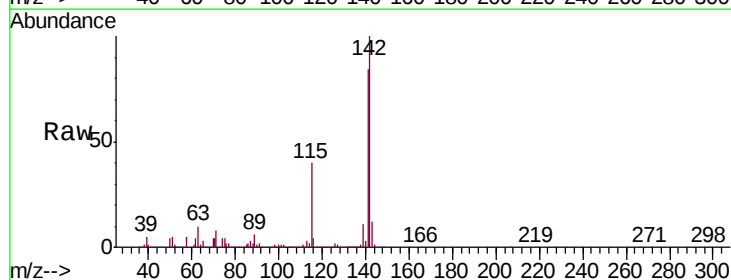
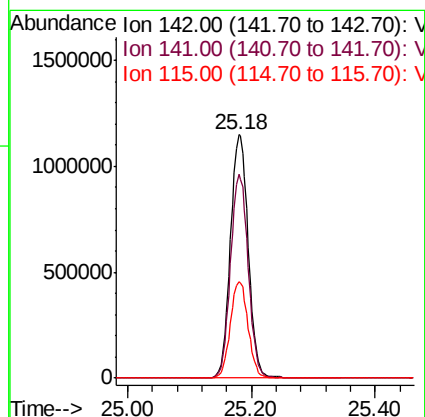
RT: 25.18 min Scan# 7493

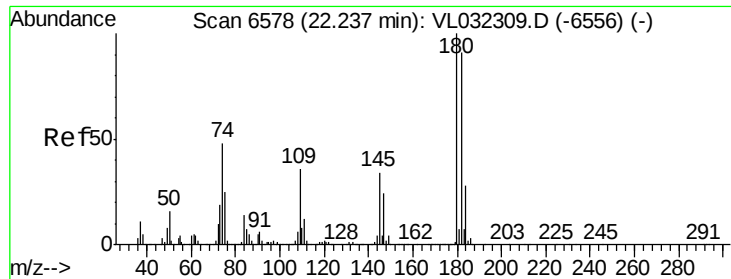
Delta R.T. -0.00 min

Lab File: VL032326.D

Acq: 27 Jul 2018 19:53

Tgt Ion:	142	Resp:	2286134
Ion	Ratio	Lower	Upper
142	100		
141	83.8	66.7	100.1
115	39.6	31.1	46.7





#81
 1,2,4-Trichlorobenzene
 Concen: 9.69 ppbv
 RT: 22.24 min Scan# 6578
 Delta R.T. -0.00 min
 Lab File: VL032326.D
 Acq: 27 Jul 2018 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	30.4	24.3	36.5

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