

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033494.D
 Acq On : 28 Mar 2019 8:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:13 AM

Quant Time: Mar 28 08:49:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 08:49:08 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	812928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2079947	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2183261m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1595067	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1049862	8.855	ppbv	97
3) Chlorodifluoromethane	3.01	51	912323	9.748	ppbv	96
4) Chloromethane	3.17	50	509068	10.279	ppbv	99
5) Vinyl Chloride	3.29	62	502083	10.318	ppbv	99
6) Bromomethane	3.51	94	326511	10.441	ppbv	89
7) Chloroethane	3.60	64	187035	10.328	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	1220386	9.660	ppbv	96
9) Propene	3.03	41	425693	10.831	ppbv	99
10) Heptane	8.24	43	1116240	10.625	ppbv	99
11) Trichlorofluoromethane	4.00	101	1356790	9.285	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	913642	9.309	ppbv	97
13) Ethanol	3.64	45	127102	12.497	ppbv	67
14) Bromoethene	3.79	108	419308	10.712	ppbv	98
15) Acetone	3.89	43	870738	8.908	ppbv	97
16) 1,3-Butadiene	3.36	39	438864	11.320	ppbv	96
17) tert-Butyl alcohol	4.35	59	196668	10.943	ppbv	98
18) 1,1-Dichloroethene	4.35	96	417420	9.902	ppbv	97
19) Isopropyl Alcohol	4.02	45	726547	11.752	ppbv	100
20) Methylene Chloride	4.40	84	373857	9.010	ppbv	96
21) Allyl Chloride	4.47	41	634323	10.266	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	439630	9.995	ppbv	94
23) Vinyl Acetate	5.15	43	1564804	11.247	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1061892	10.048	ppbv	100
25) Ethyl Acetate	5.76	43	1877163	10.351	ppbv	99
26) Hexane	5.77	57	850318	10.545	ppbv	97
27) Carbon Disulfide	4.62	76	984311	10.265	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1303058	11.220	ppbv	100
29) Chloroform	5.85	83	1423683	10.300	ppbv	97
30) Cyclohexane	7.24	84	733607	11.500	ppbv	96
31) cis-1,2-Dichloroethene	5.64	61	846864	10.563	ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	1356665	10.307	ppbv	99
34) 2-Butanone	5.32	43	1197105	9.580	ppbv	97
35) Carbon Tetrachloride	7.13	117	1381201	9.376	ppbv	99
36) Benzene	7.00	78	1820698	10.433	ppbv	97
37) 1,2-Dichloroethane	6.41	62	1036853	8.864	ppbv	98
38) Trichloroethene	7.96	130	734974	11.190	ppbv	99
39) 1,2-Dichloropropane	7.73	63	683532	9.998	ppbv	96
40) 1,4-Dioxane	7.95	88	275811	11.311	ppbv	# 1
41) Tetrahydrofuran	6.14	42	731742	10.646	ppbv	96
42) Bromodichloromethane	7.91	83	1512250	9.492	ppbv	99
43) Methyl Methacrylate	8.13	69	751027	10.598	ppbv	97

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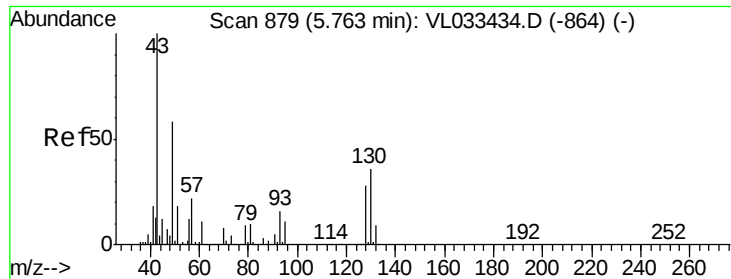
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	2981710	9.777	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	982598	11.294	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1118545	11.009	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	790334	10.181	ppbv	99
48) Dibromochloromethane	10.44	129	1345092	10.272	ppbv	99
49) Bromoform	13.20	173	1207828	9.655	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	1827510	9.987	ppbv	98
51) 2-Hexanone	10.26	43	1450228	10.625	ppbv	98
52) Tetrachloroethene	11.37	164	723293	10.984	ppbv	95
53) Toluene	9.94	91	2241351	11.052	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1253663	10.325	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	969032	9.684	ppbv	96
57) Chlorobenzene	12.30	112	1709700	10.085	ppbv	95
58) Ethyl Benzene	12.86	91	3120868	10.704	ppbv	99
59) m/p-Xylene	13.12	91	5109135m	19.619	ppbv	
60) o-Xylene	13.85	91	2472789	9.819	ppbv	97
61) Styrene	13.68	104	1952681	11.298	ppbv	97
62) Isopropylbenzene	14.82	105	3592692	10.074	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1696306	9.148	ppbv	99
64) n-propylbenzene	15.72	120	943715	10.429	ppbv	92
65) tert-Butylbenzene	16.90	119	3179553	10.118	ppbv	96
66) Benzyl Chloride	17.15	91	1656898	11.339	ppbv	99
67) sec-Butylbenzene	17.45	105	4467031	9.996	ppbv	100
69) p-Isopropyltoluene	17.81	119	3727419	10.244	ppbv	98
70) n-Butylbenzene	18.71	91	3856367	10.003	ppbv	99
71) 2-Chlorotoluene	15.61	91	2729735	10.067	ppbv	98
72) 4-Ethyltoluene	16.00	105	2979498	10.526	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	2824263	10.426	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	2885785	9.939	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	1731161	9.647	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	1736634	9.932	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1687449	9.911	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1250423	11.094	ppbv	99
79) Naphthalene	22.41	128	2962125	11.918	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1467245	17.590	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	1522145	11.041	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 812928

Ion Ratio Lower Upper

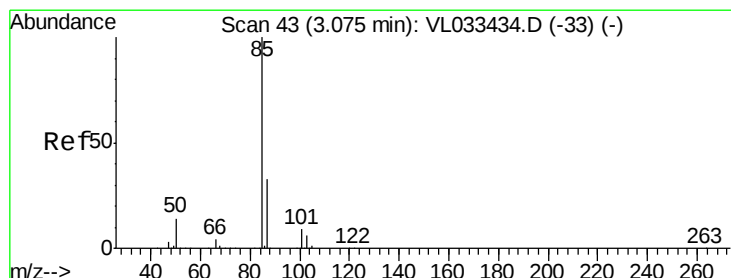
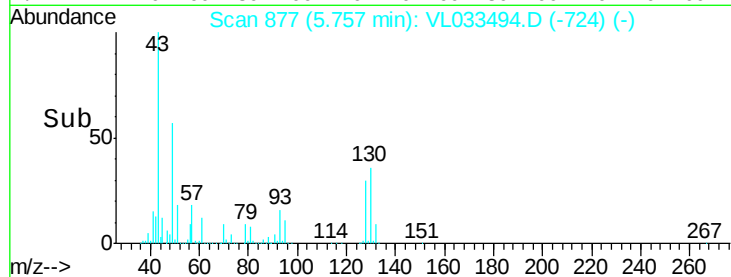
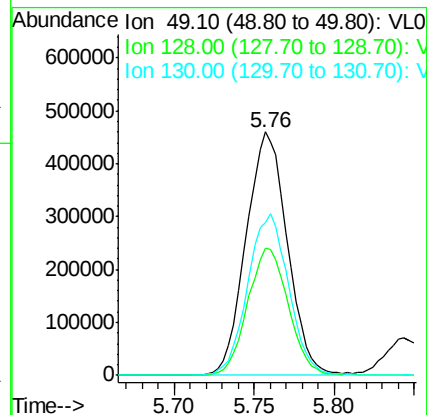
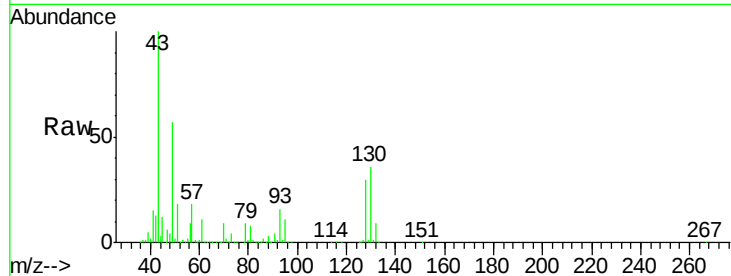
49 100

128 51.9 24.0 72.0

130 66.2 31.2 93.6

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#2

Dichlorodifluoromethane

Concen: 8.855 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033494.D

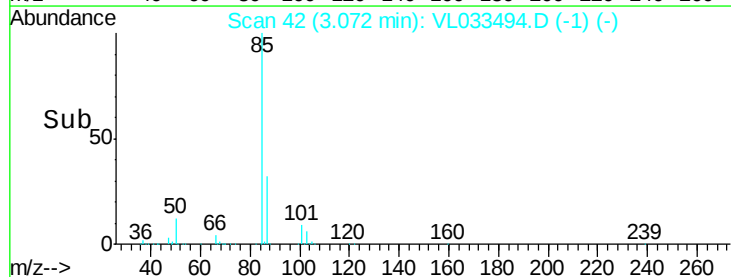
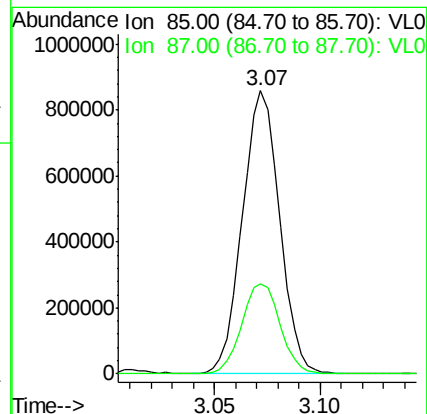
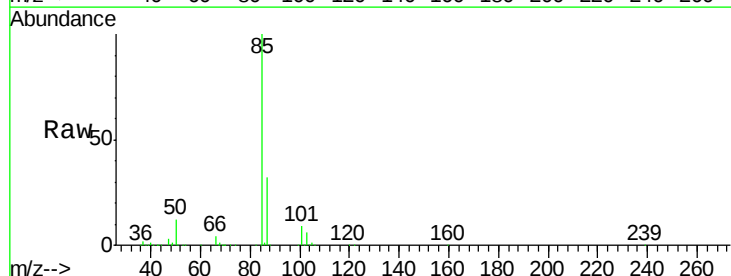
Acq: 28 Mar 2019 8:14

Tgt Ion: 85 Resp: 1049862

Ion Ratio Lower Upper

85 100

87 31.9 26.7 40.1





#3

Chlorodifluoromethane

Concen: 9.748 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 912323

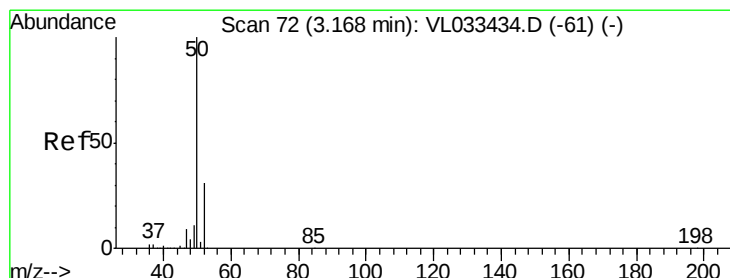
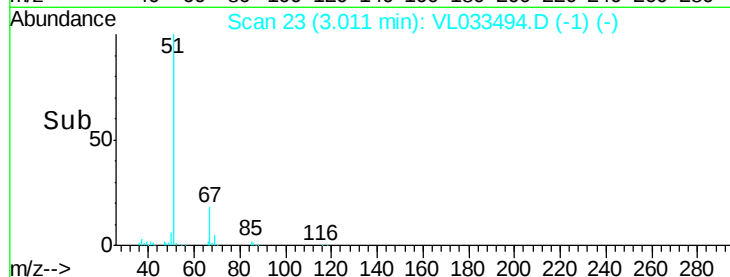
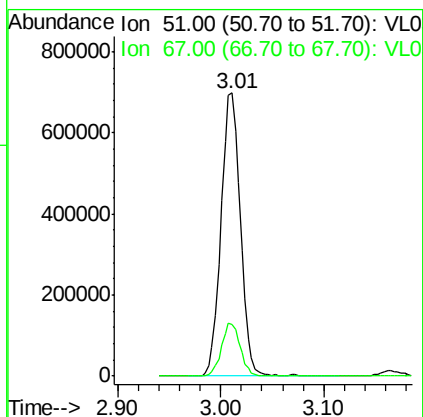
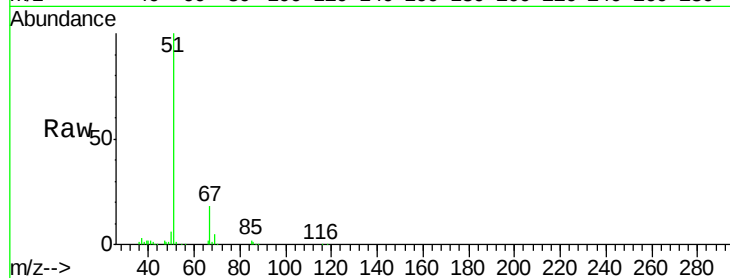
Ion Ratio Lower Upper

51 100

67 17.9 15.7 23.5

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#4

Chloromethane

Concen: 10.279 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033494.D

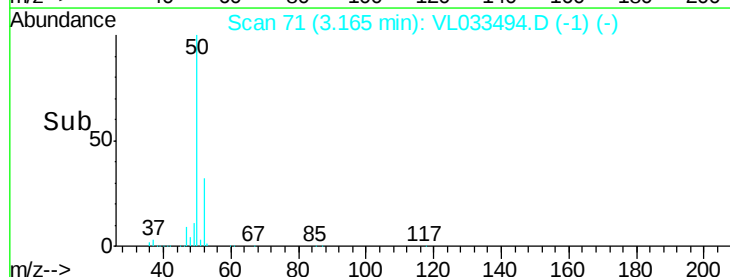
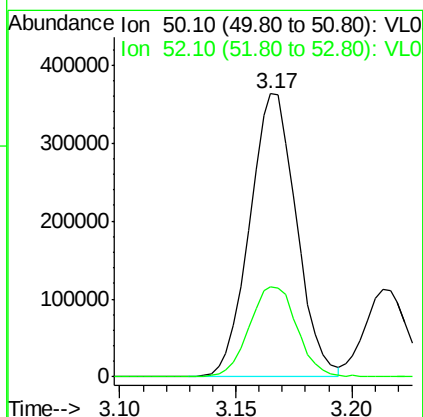
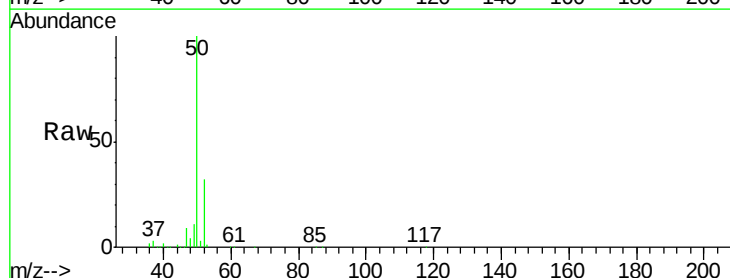
Acq: 28 Mar 2019 8:14

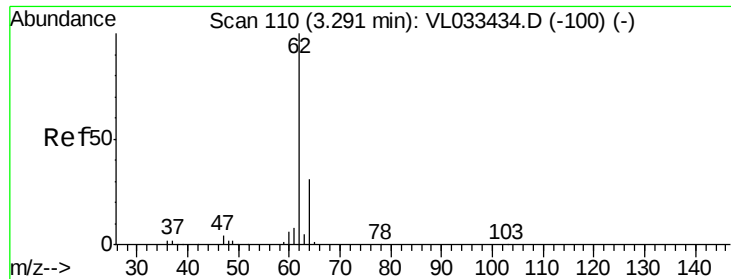
Tgt Ion: 50 Resp: 509068

Ion Ratio Lower Upper

50 100

52 31.9 25.0 37.6





#5

Vinyl Chloride

Concen: 10.318 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 502083

Ion Ratio Lower Upper

62 100

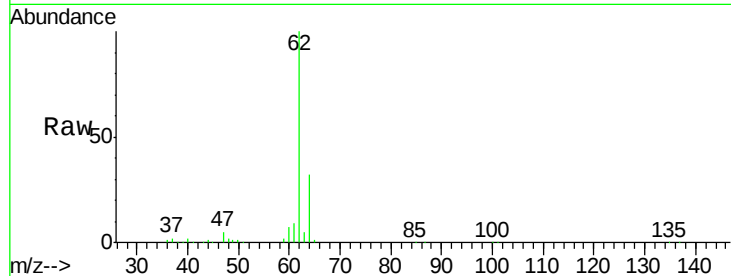
64 31.7 24.9 37.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

300000

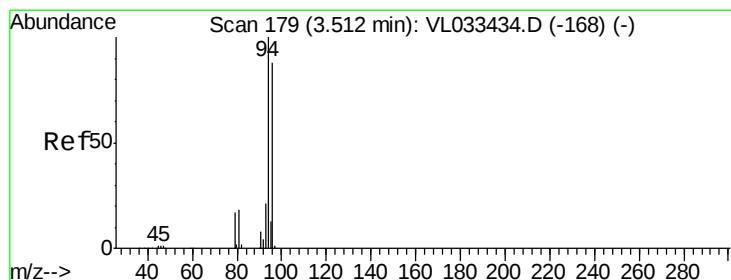
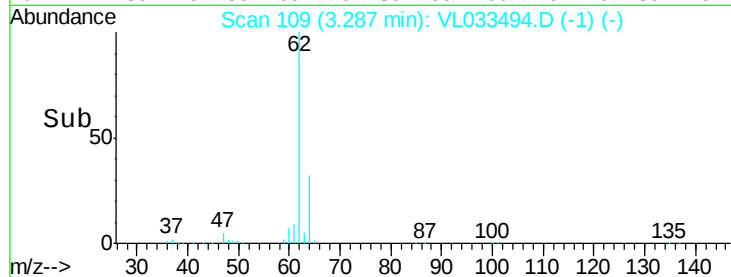
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 10.441 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033494.D

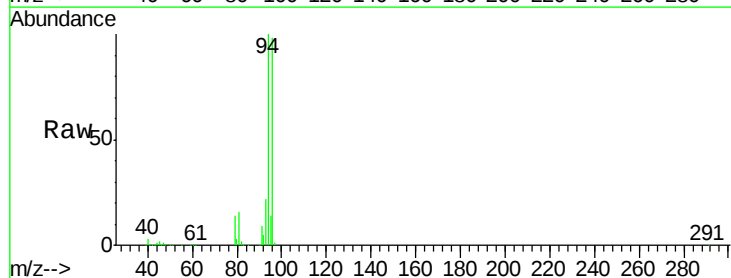
Acq: 28 Mar 2019 8:14

Tgt Ion: 94 Resp: 326511

Ion Ratio Lower Upper

94 100

96 97.6 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

250000

200000

150000

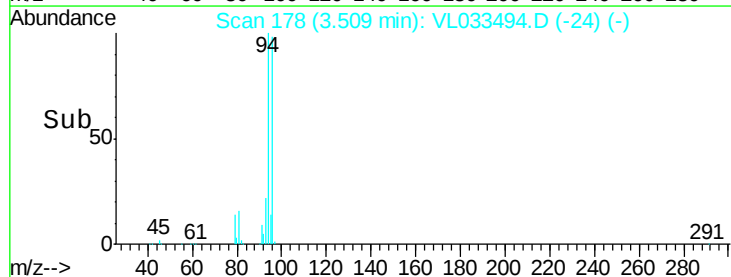
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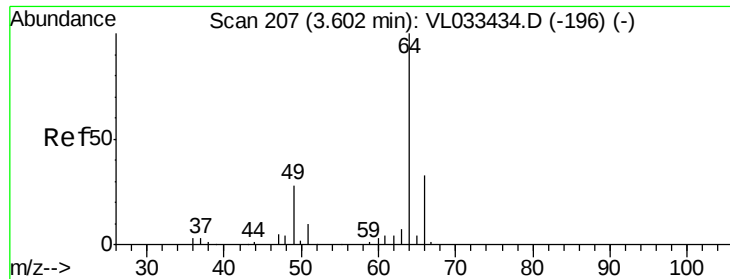
50000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 10.328 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 187035

Ion Ratio Lower Upper

64 100

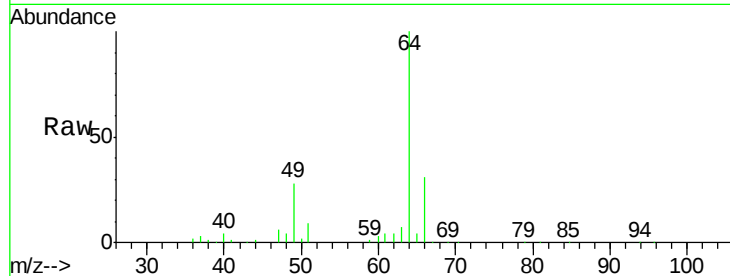
66 30.6 26.7 40.1

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

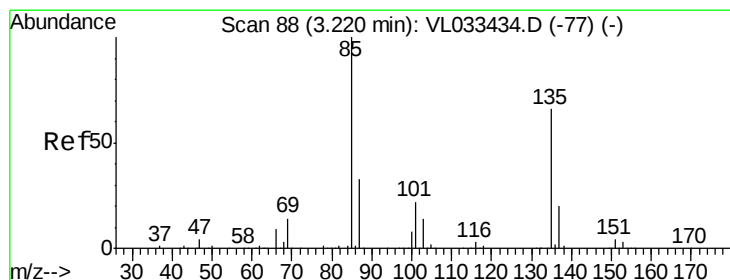
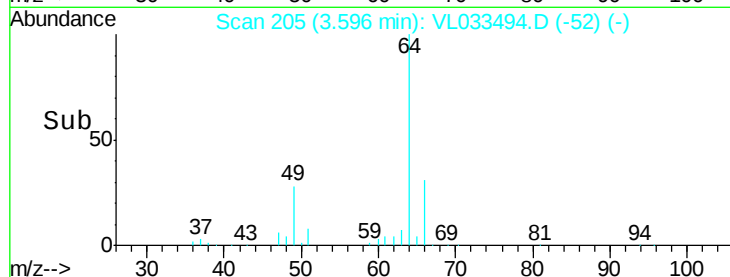
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.660 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033494.D

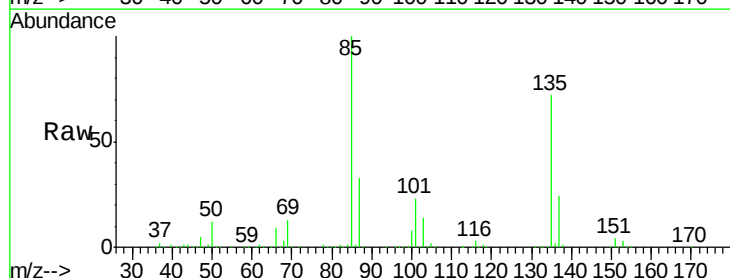
Acq: 28 Mar 2019 8:14

Tgt Ion: 85 Resp: 1220386

Ion Ratio Lower Upper

85 100

135 70.4 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

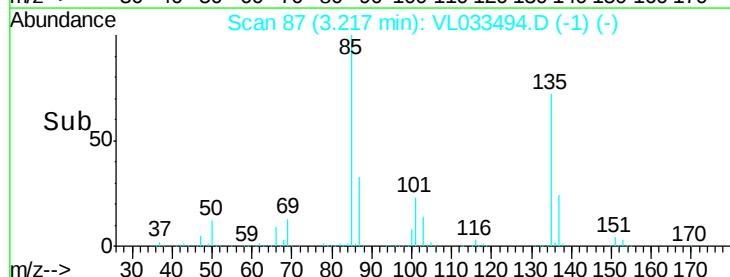
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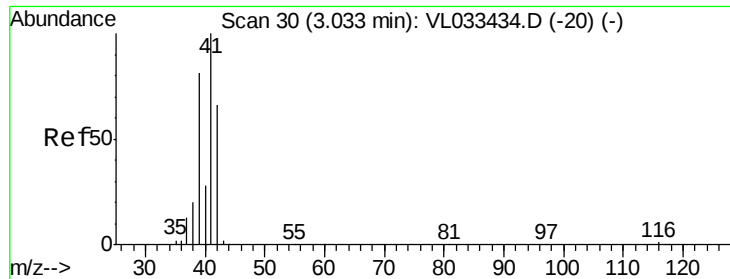
200000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 10.831 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 425693

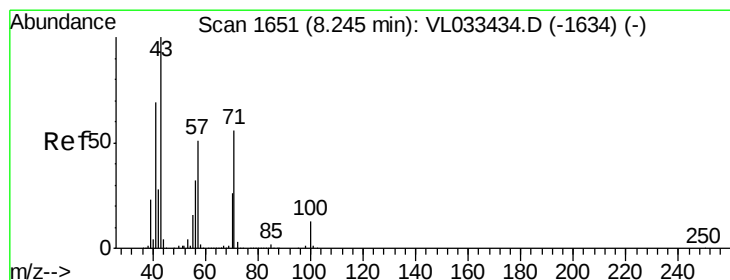
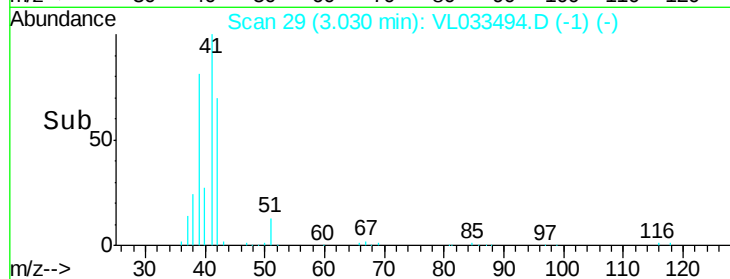
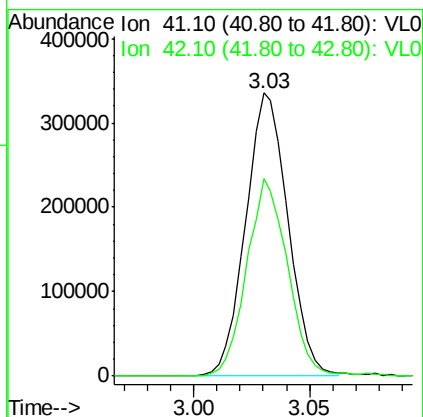
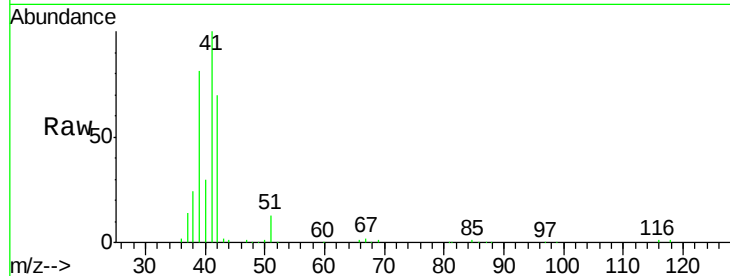
Ion Ratio Lower Upper

41 100

42 68.1 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 10.625 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033494.D

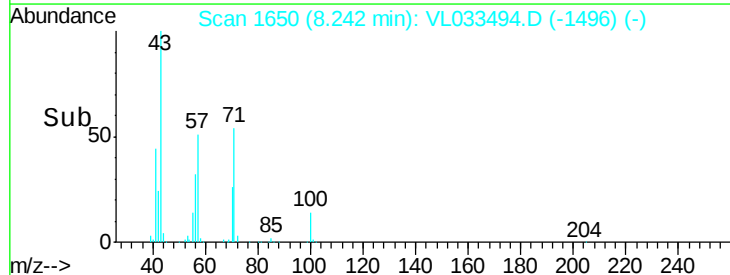
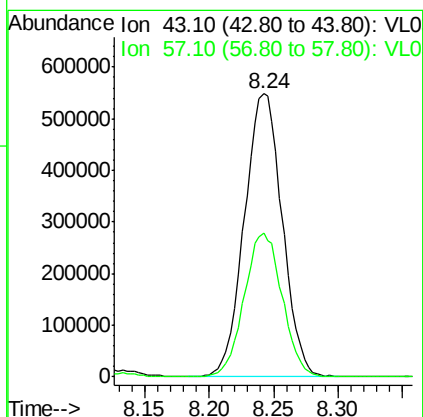
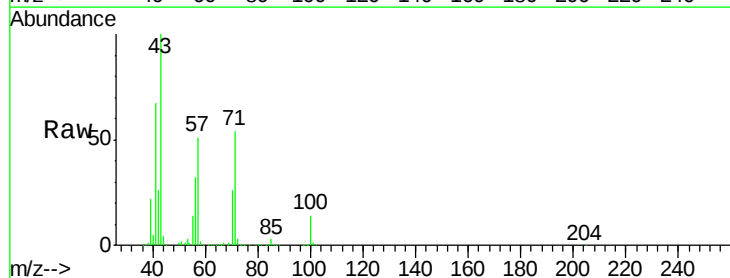
Acq: 28 Mar 2019 8:14

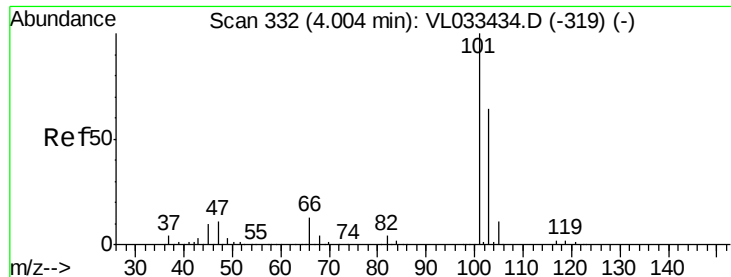
Tgt Ion: 43 Resp: 1116240

Ion Ratio Lower Upper

43 100

57 51.2 40.6 60.8





#11

Trichlorofluoromethane

Concen: 9.285 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1356790

Ion Ratio Lower Upper

101 100

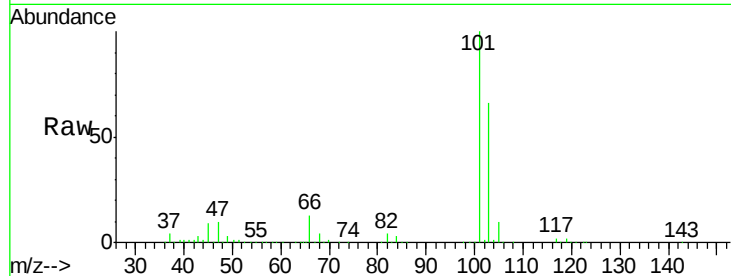
103 65.5 51.3 76.9

Manual Integrations

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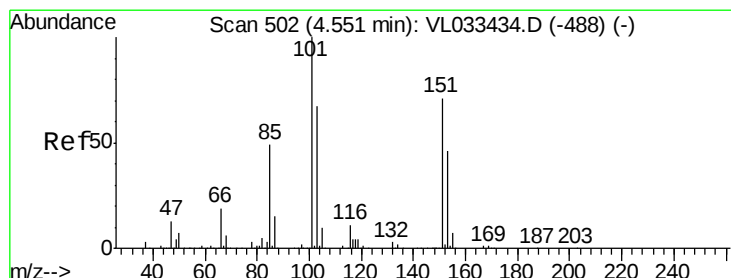
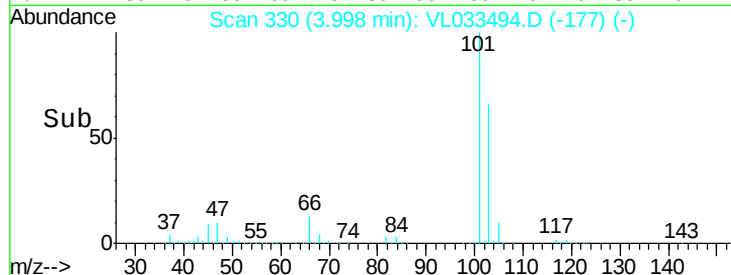
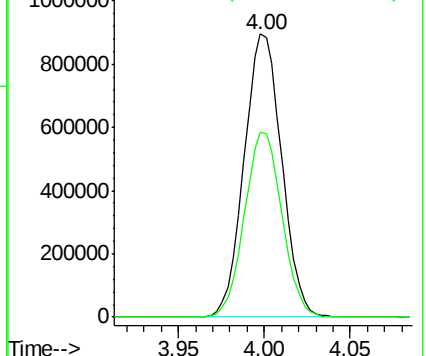
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.309 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL033494.D

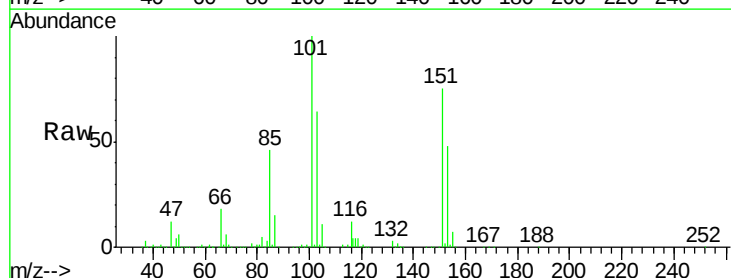
Acq: 28 Mar 2019 8:14

Tgt Ion:101 Resp: 913642

Ion Ratio Lower Upper

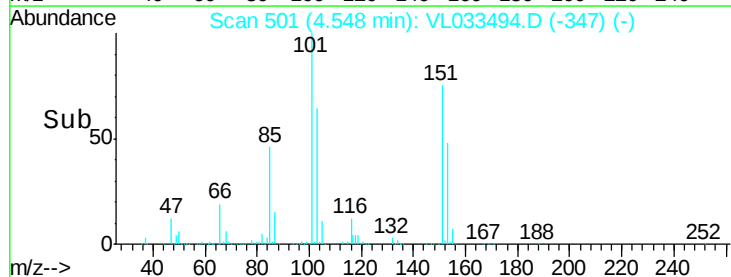
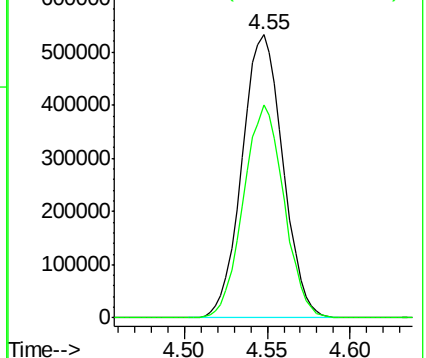
101 100

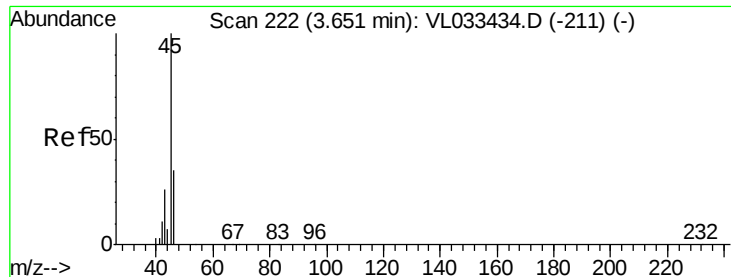
151 74.5 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 12.497 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 127102

Ion Ratio Lower Upper

45 100

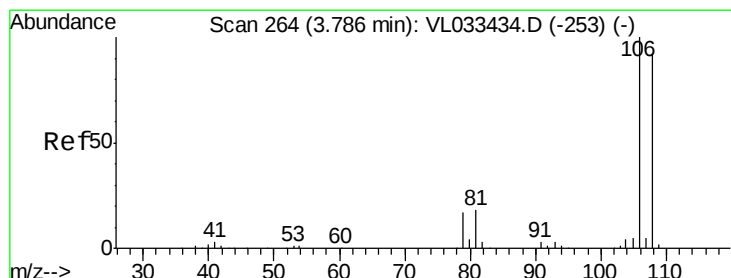
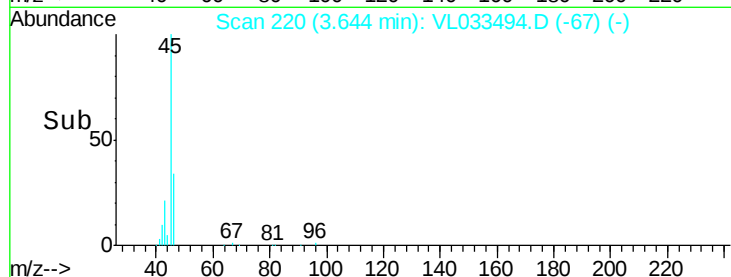
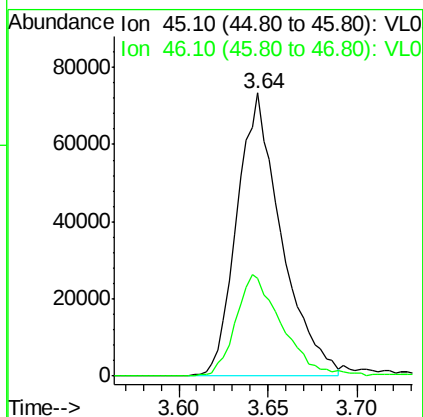
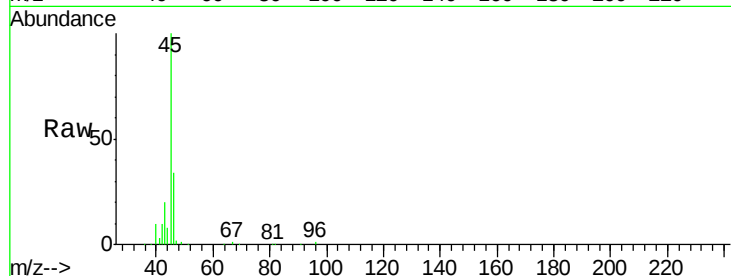
46 37.9 25.4 101.8

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#14

Bromoethene

Concen: 10.712 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

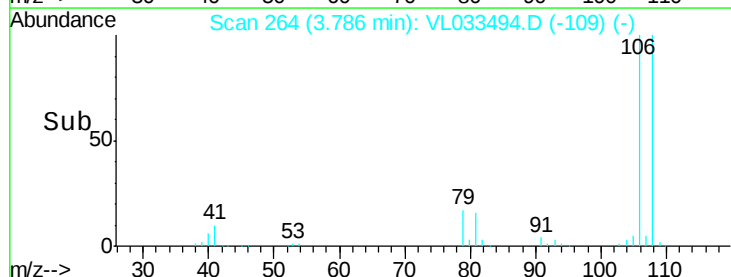
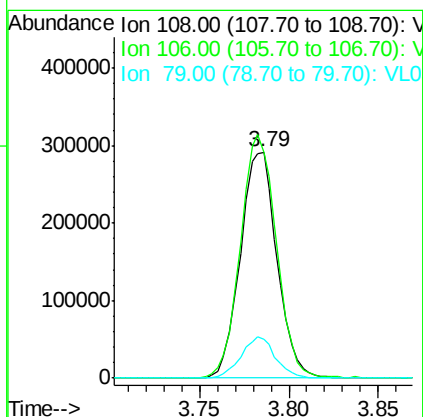
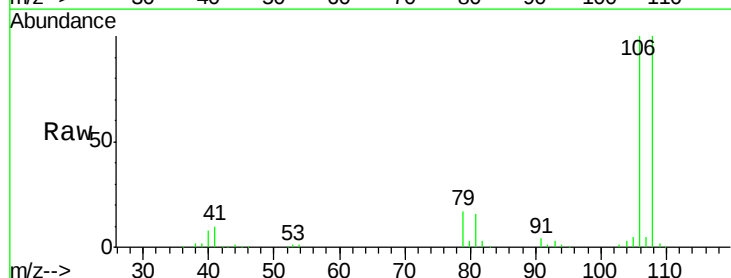
Tgt Ion: 108 Resp: 419308

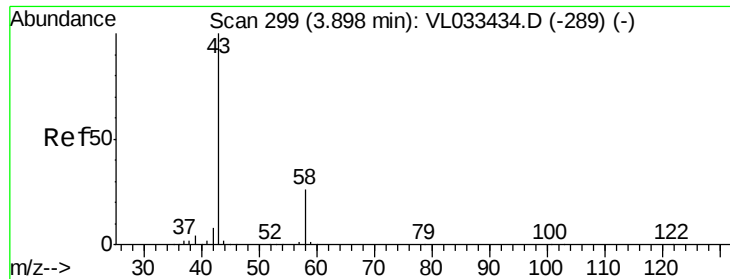
Ion Ratio Lower Upper

108 100

106 106.3 86.4 129.6

79 17.2 15.8 23.8





#15

Acetone

Concen: 8.908 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 870738

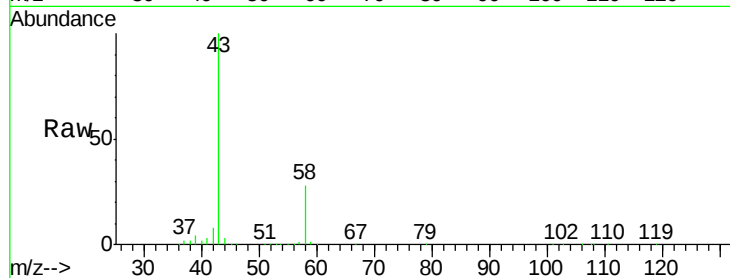
Ion Ratio Lower Upper

43 100

58 27.3 20.5 30.7

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

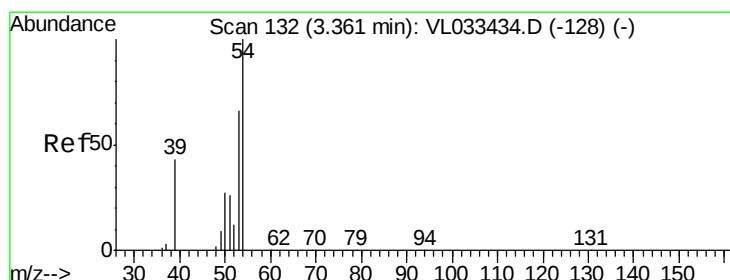
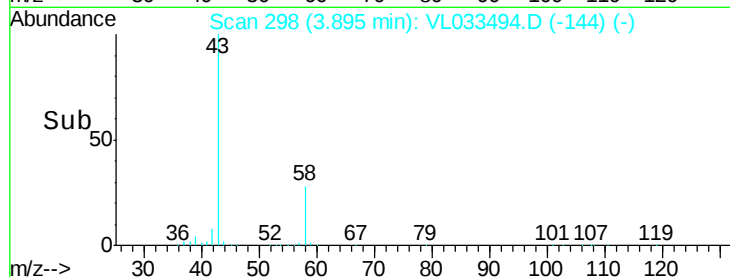
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 11.320 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.00 min

Lab File: VL033494.D

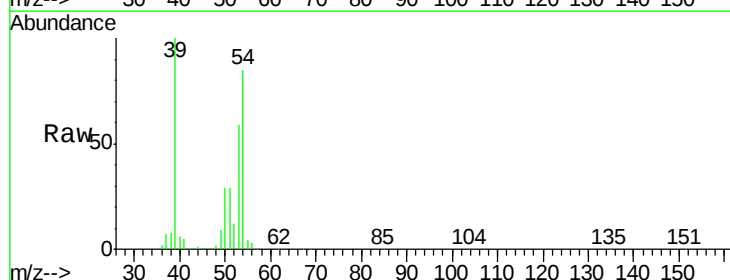
Acq: 28 Mar 2019 8:14

Tgt Ion: 39 Resp: 438864

Ion Ratio Lower Upper

39 100

54 90.6 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

400000

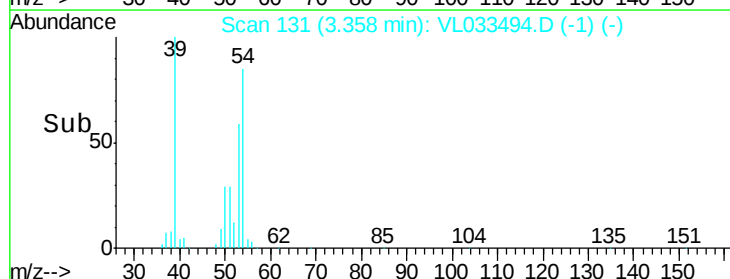
300000

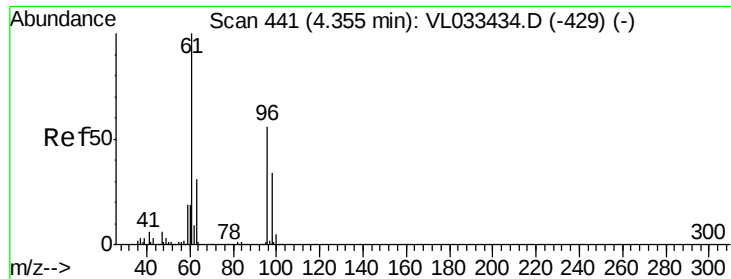
200000

100000

0

Time-->





#17

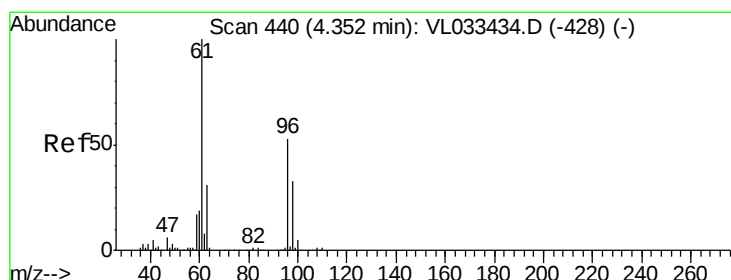
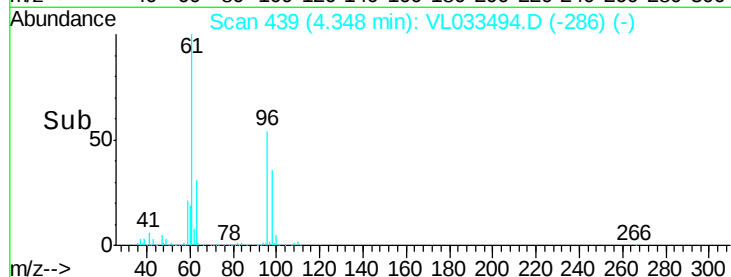
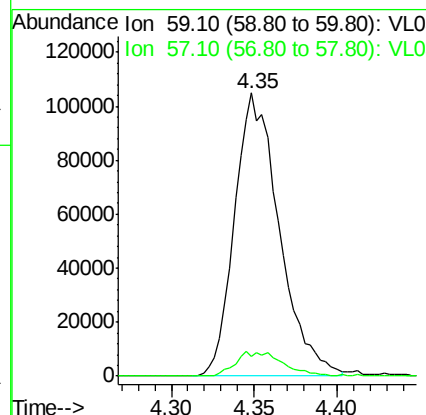
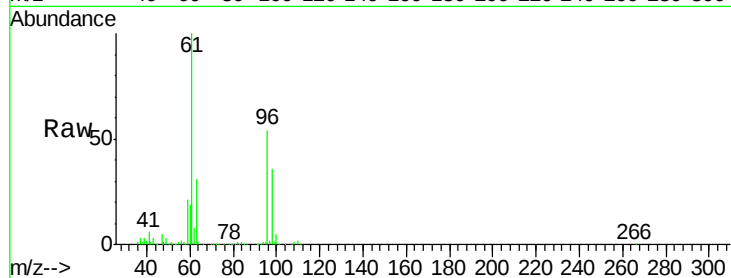
tert-Butyl alcohol
Concen: 10.943 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Resp	196668
Ion	Ratio	Lower	Upper
59	100		
57	9.2	7.8	11.8

Manual Integrations
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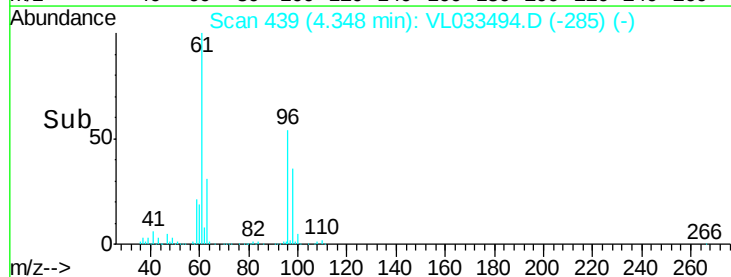
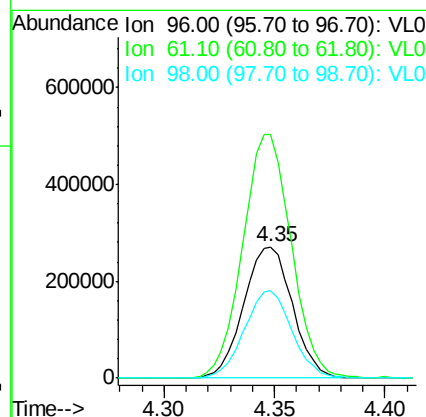
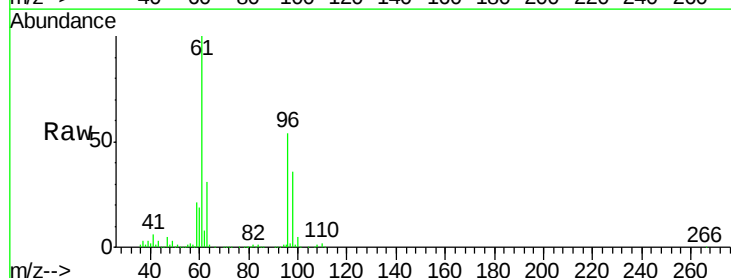
MMDadoda
4/1/2019 1:26:13 AM

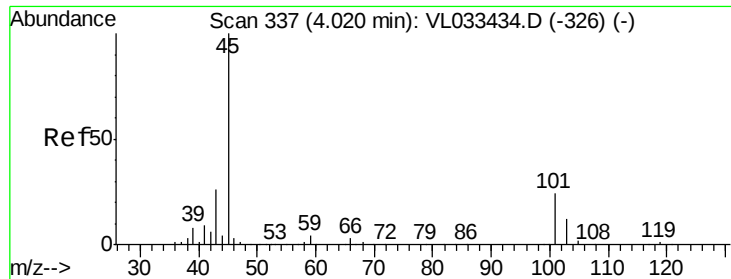


#18

1,1-Dichloroethene
Concen: 9.902 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion	96	Resp	417420
Ion	Ratio	Lower	Upper
96	100		
61	185.0	149.8	224.6
98	66.1	48.7	73.1





#19

Isopropyl Alcohol

Concen: 11.752 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 726547

Ion Ratio Lower Upper

45 100

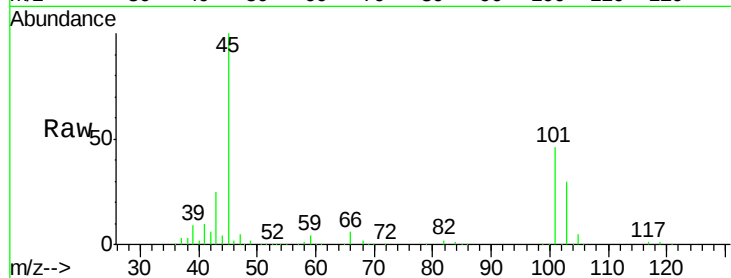
58 1.6 1.4 2.2

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

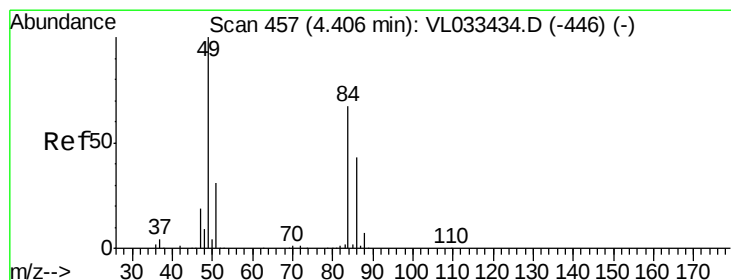
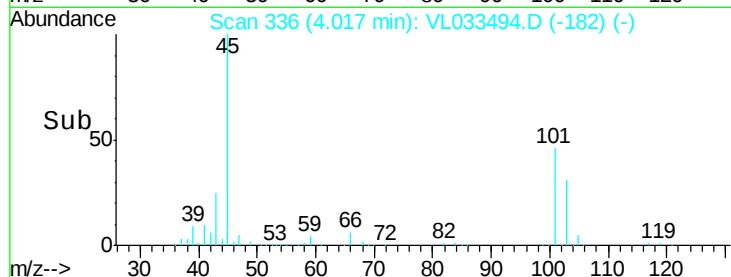
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.010 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion: 84 Resp: 373857

Ion Ratio Lower Upper

84 100

49 144.0 120.0 180.0

51 43.8 36.7 55.1

86 63.3 51.9 77.9

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

500000

400000

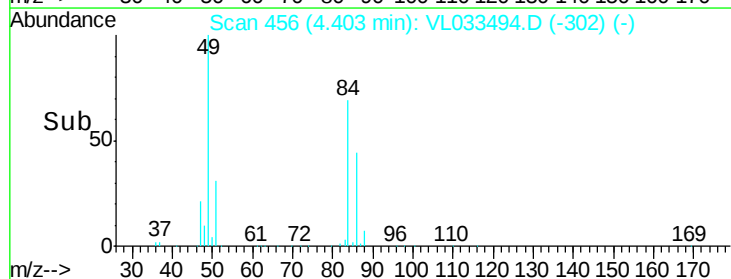
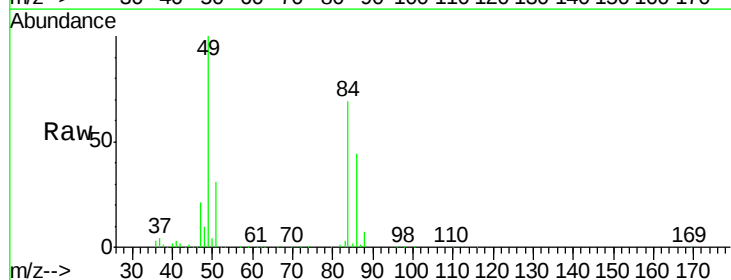
300000

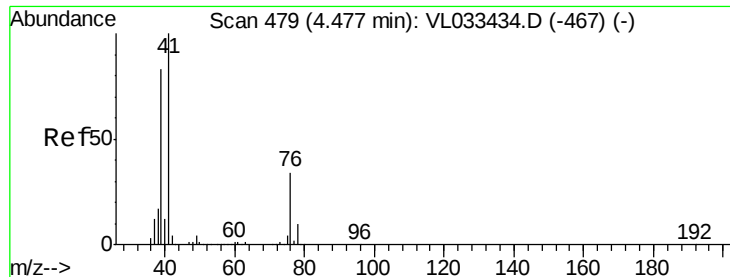
200000

100000

0

Time-->





#21

Allvl Chloride

Concen: 10.266 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

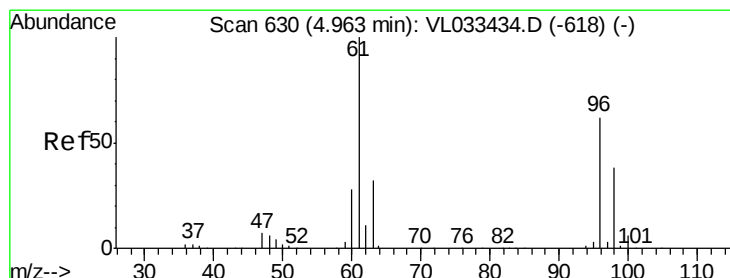
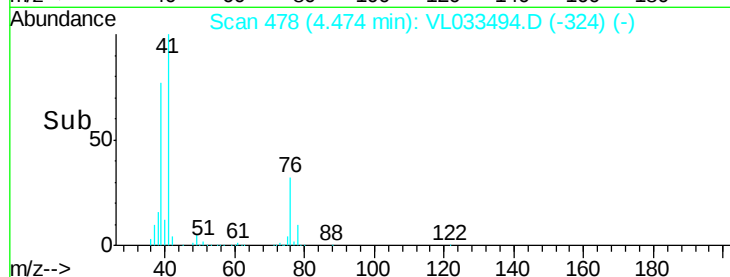
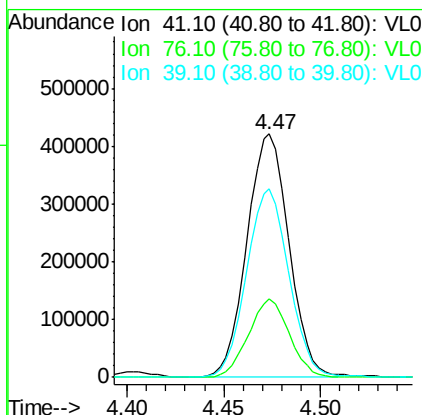
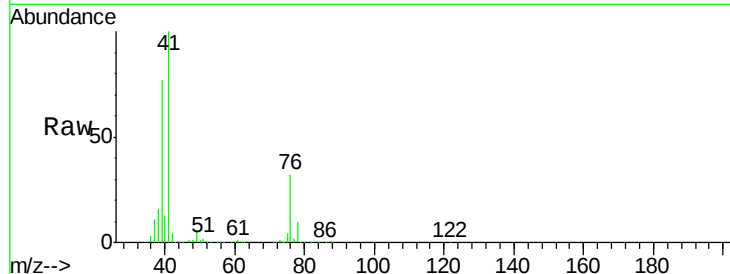
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	634323
Ion Ratio	Lower	Upper	
41	100		
76	31.5	25.4	38.2
39	78.6	65.3	97.9

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#22

trans-1,2-Dichloroethene

Concen: 9.995 ppbv

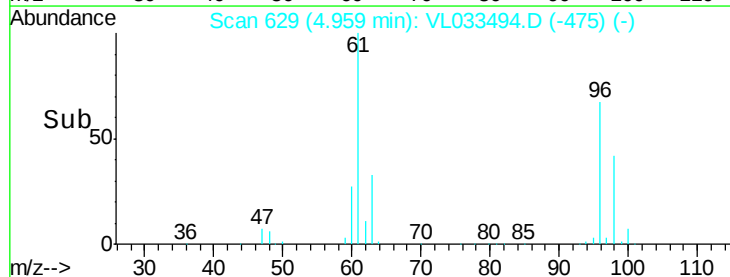
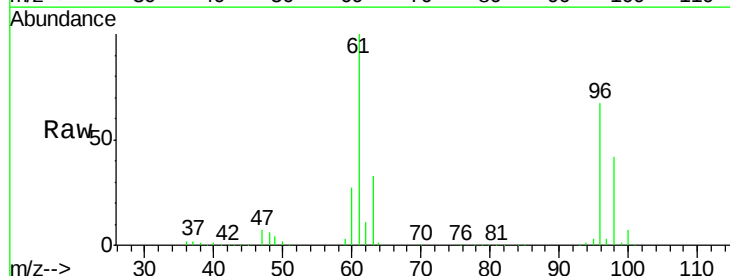
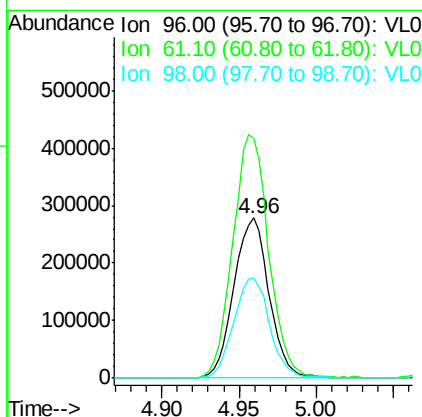
RT: 4.96 min Scan# 629

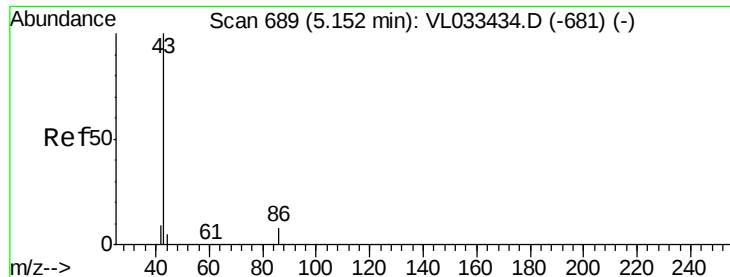
Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion:	96	Resp:	439630
Ion Ratio	Lower	Upper	
96	100		
61	150.0	128.9	193.3
98	62.4	49.5	74.3





#23

Vinyl Acetate

Concen: 11.247 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1564804

Ion Ratio Lower Upper

43 100

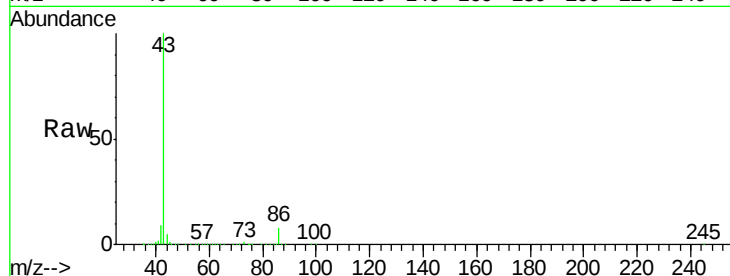
86 7.6 5.6 8.4

42 9.4 8.0 12.0

44 5.0 3.9 5.9

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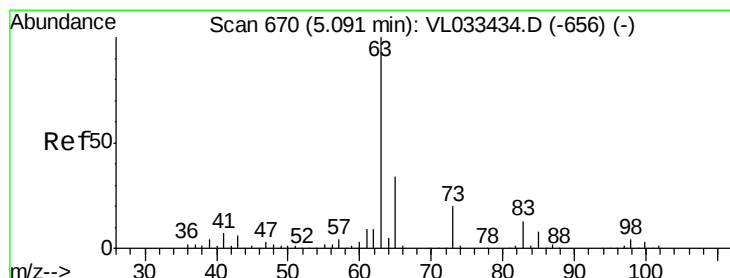
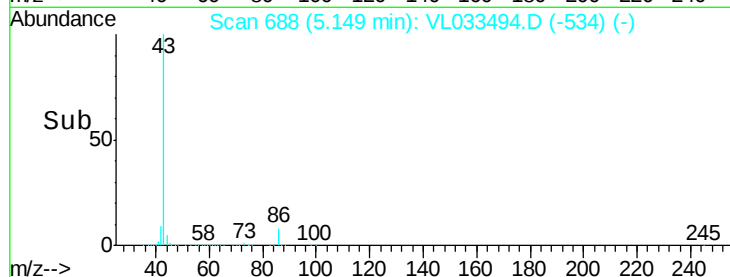
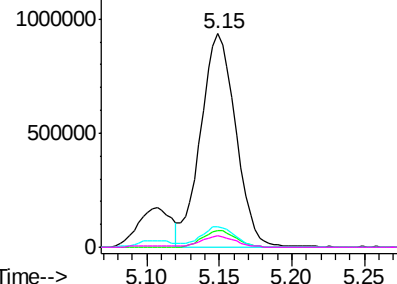


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.048 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

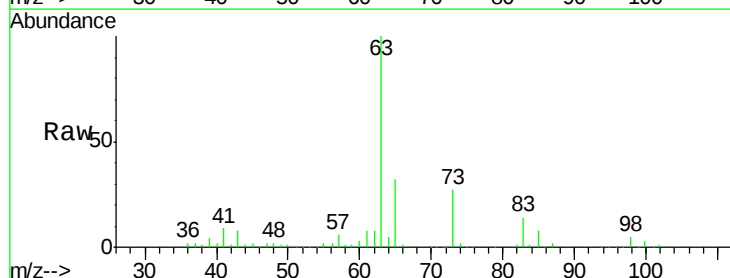
Tgt Ion: 63 Resp: 1061892

Ion Ratio Lower Upper

63 100

98 4.4 2.2 6.6

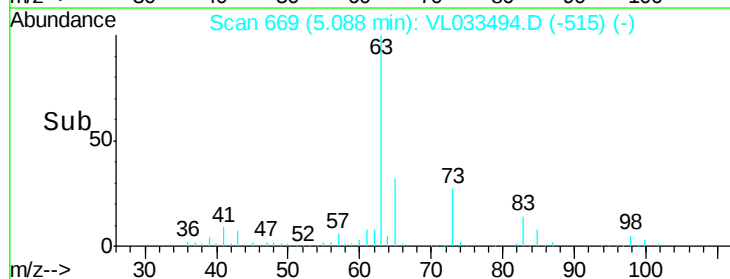
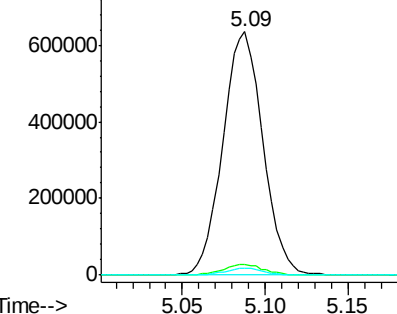
100 3.0 1.5 4.4

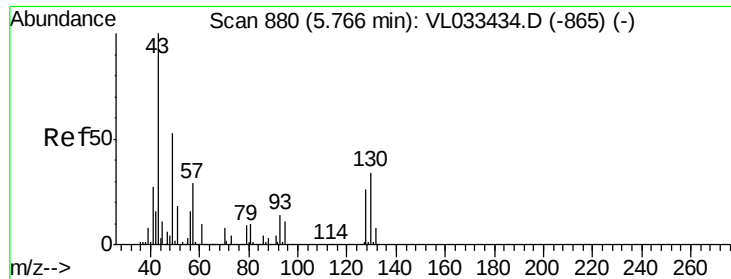


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.351 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1877163

Ion Ratio Lower Upper

43 100

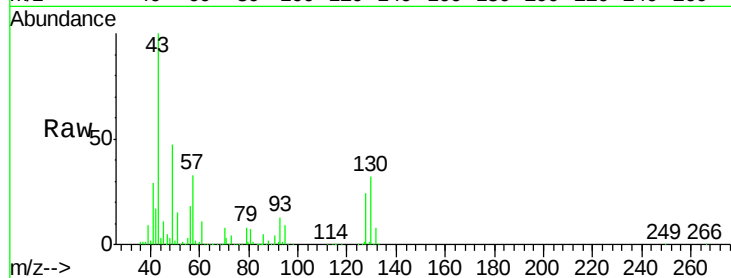
45 9.8 7.8 11.6

61 9.5 7.3 10.9

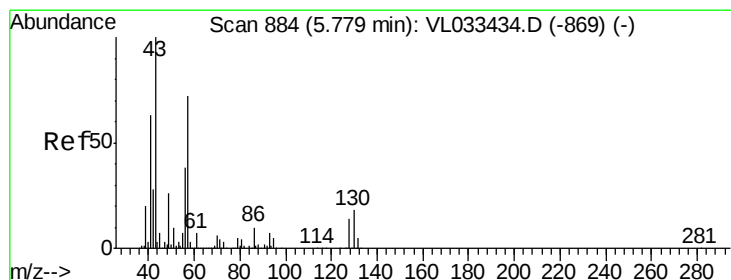
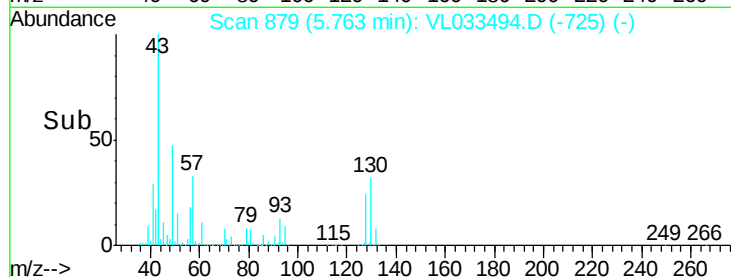
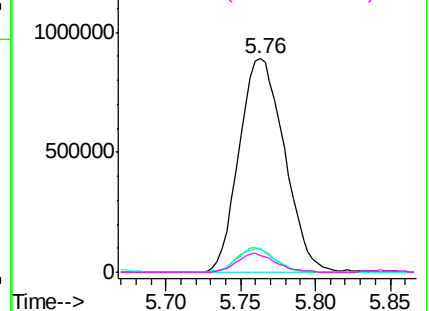
70 7.5 5.6 8.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.545 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion: 57 Resp: 850318

Ion Ratio Lower Upper

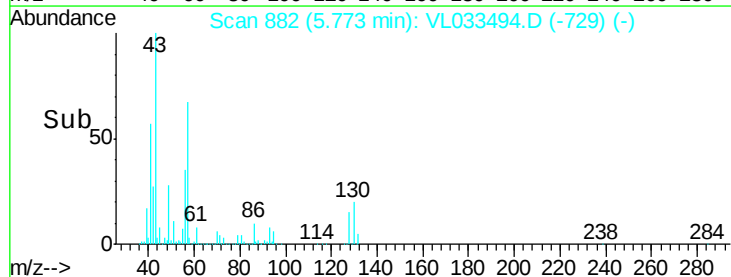
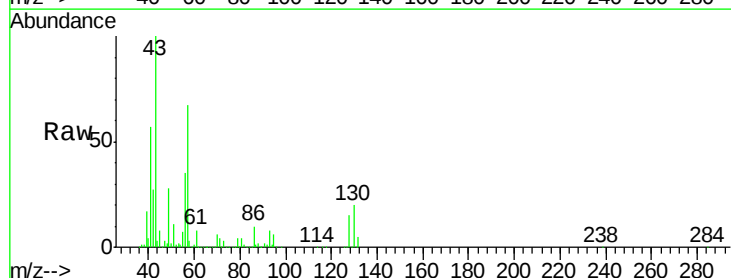
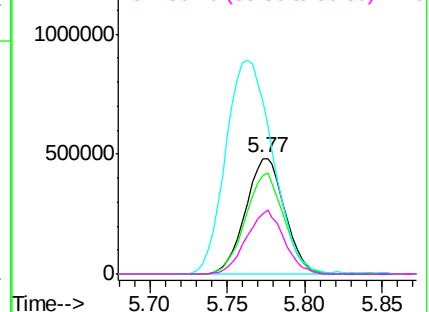
57 100

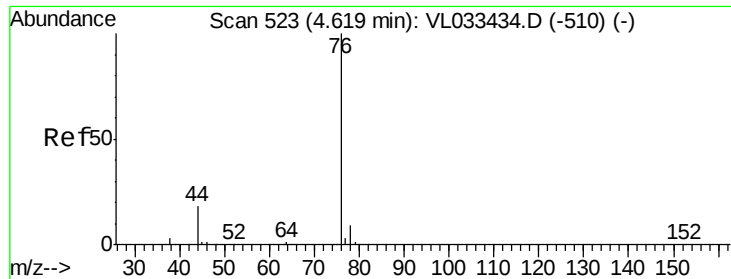
41 86.1 70.7 106.1

43 222.0 182.6 274.0

56 52.9 42.0 63.0

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.265 ppbv

RT: 4.62 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

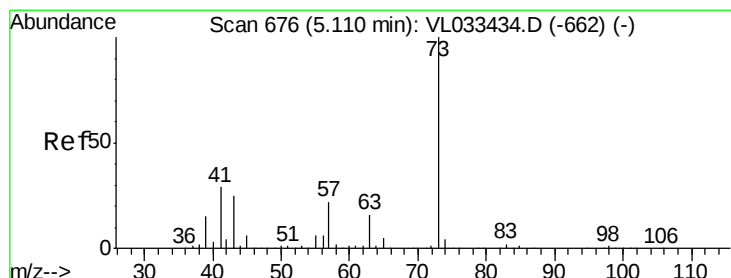
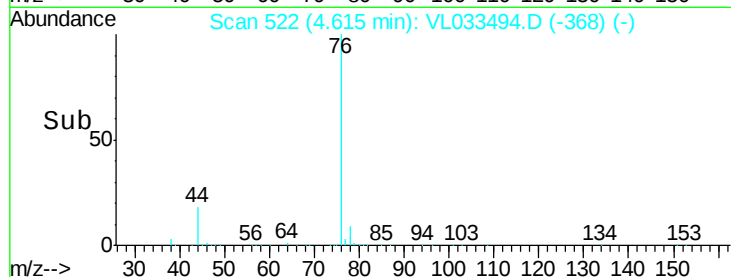
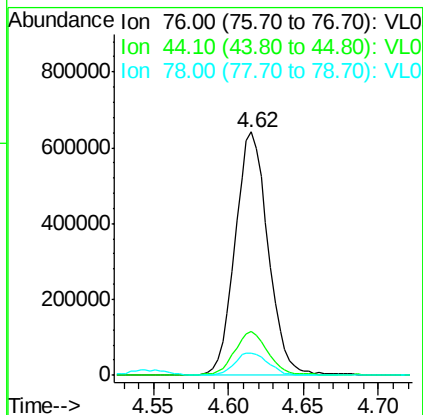
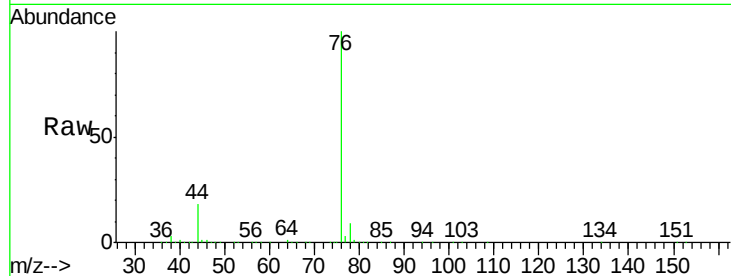
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	984311
Ion	Ratio	Lower	Upper
76	100		
44	18.4	14.8	22.2
78	9.6	7.6	11.4

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 11.220 ppbv

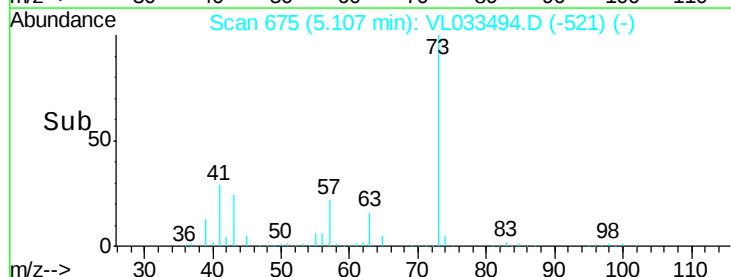
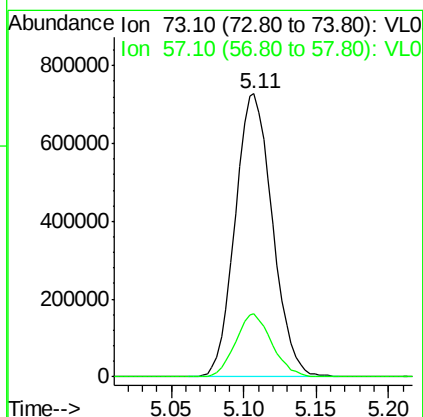
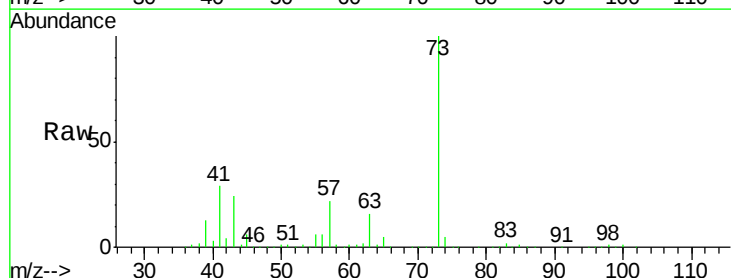
RT: 5.11 min Scan# 675

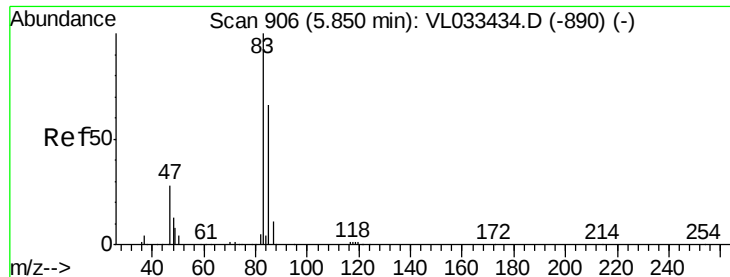
Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion:	73	Resp:	1303058
Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.2





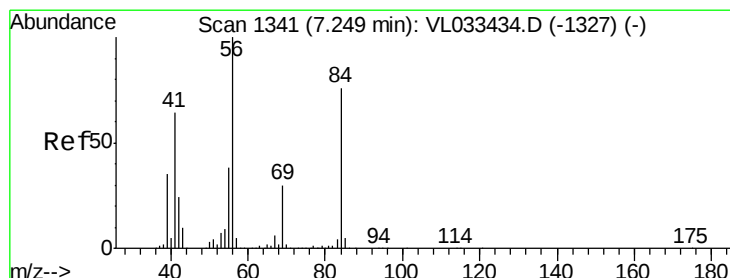
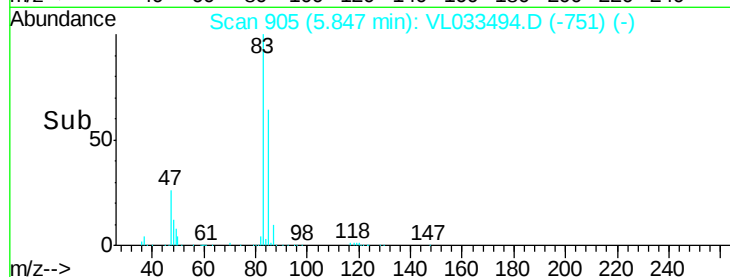
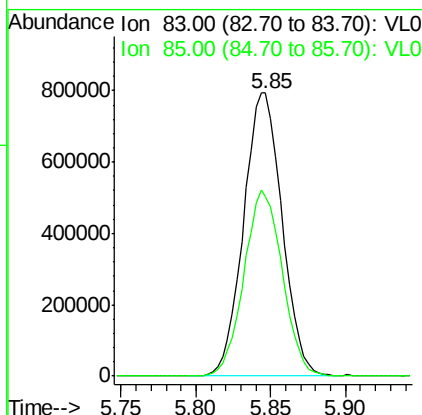
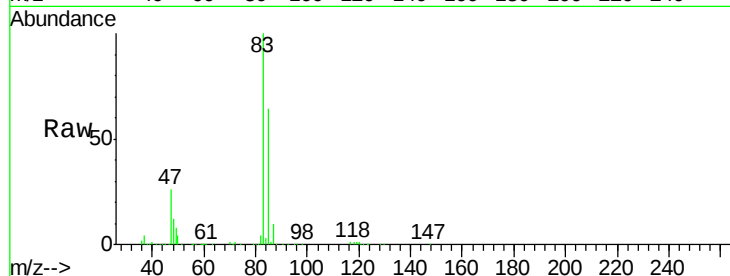
#29
Chloroform
Concen: 10.300 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1423683
Ion Ratio Lower Upper
83 100
85 63.5 52.6 79.0

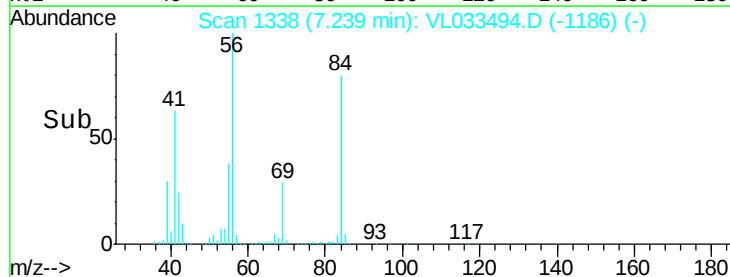
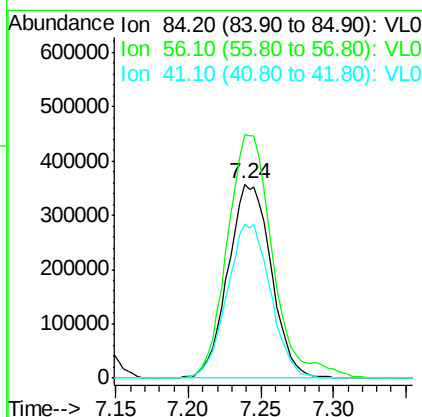
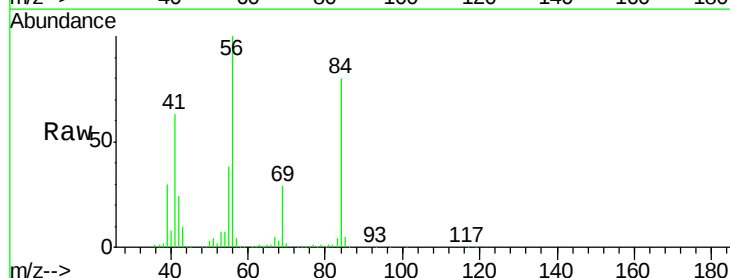
Manual Integrations
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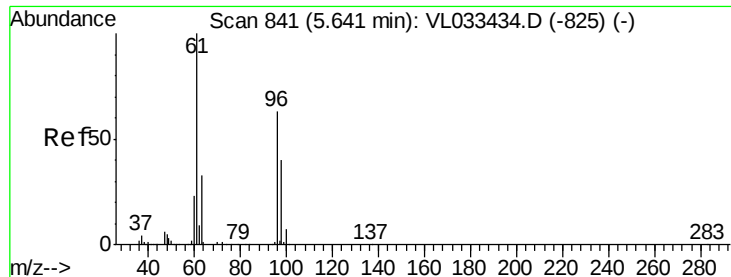
MMDadoda
4/1/2019 1:26:13 AM



#30
Cyclohexane
Concen: 11.500 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion: 84 Resp: 733607
Ion Ratio Lower Upper
84 100
56 133.3 109.7 164.5
41 80.8 68.2 102.2





#31

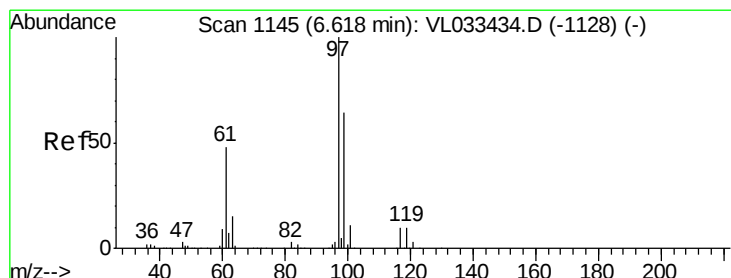
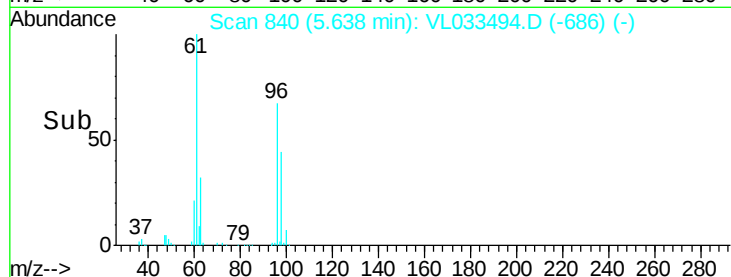
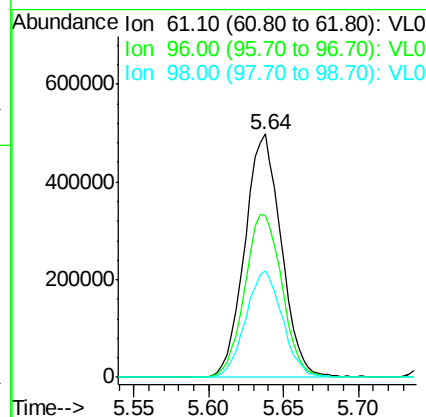
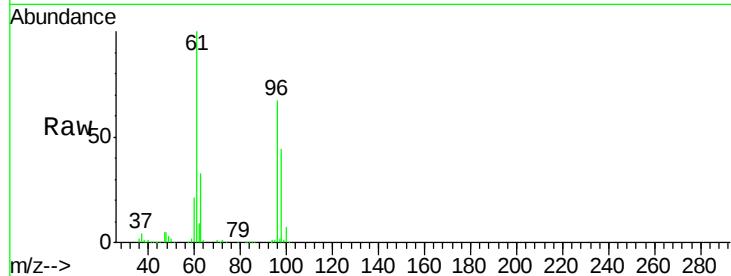
cis-1,2-Dichloroethene
 Concen: 10.563 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.5	50.6	76.0
98	43.6	32.2	48.2

Manual Integrations
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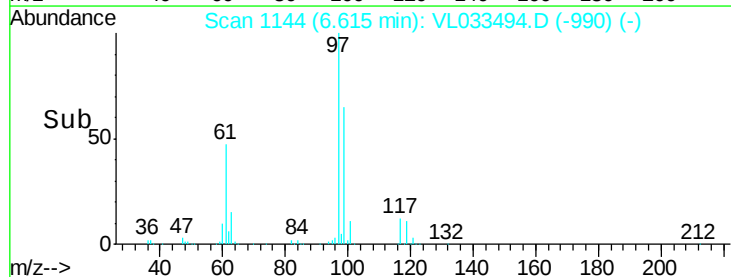
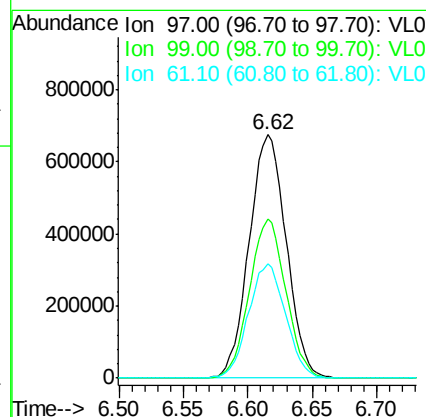
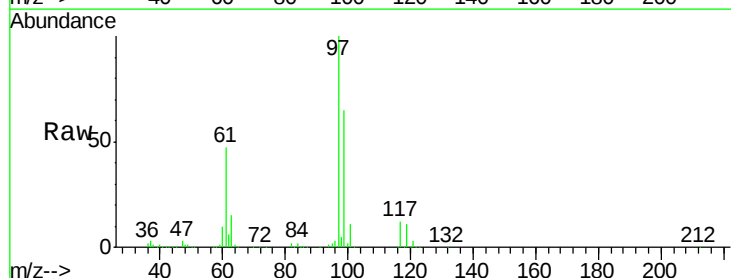
MMDadoda
 4/1/2019 1:26:13 AM

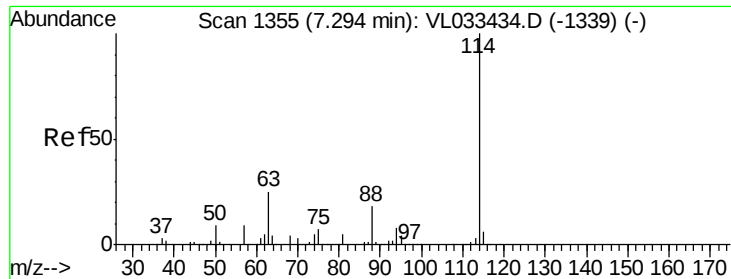


#32

1,1,1-Trichloroethane
 Concen: 10.307 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.5	77.3
61	47.0	38.8	58.2





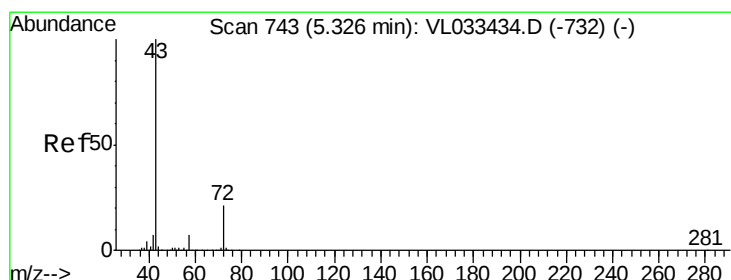
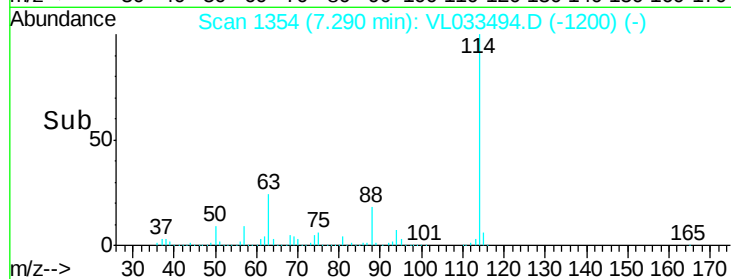
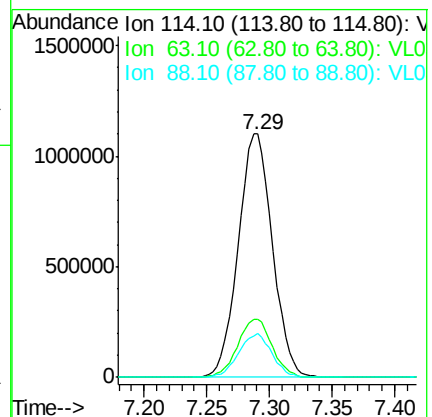
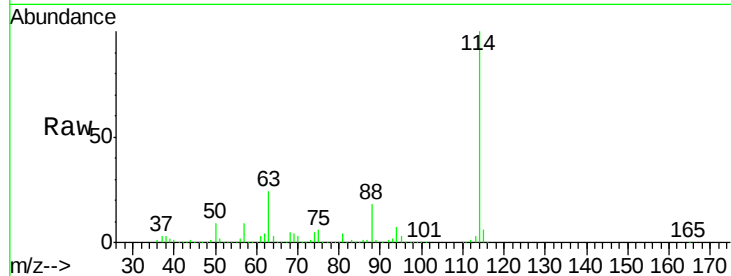
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.5	21.5	32.3
88	17.5	14.5	21.7

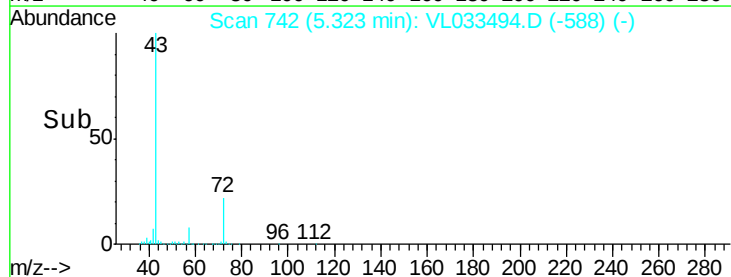
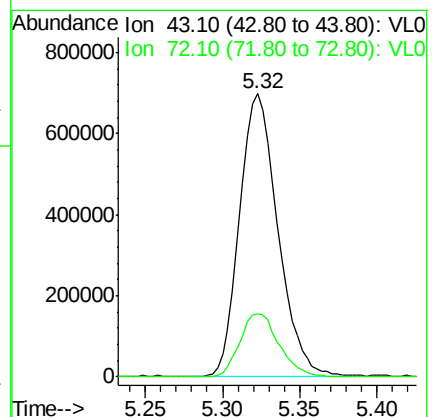
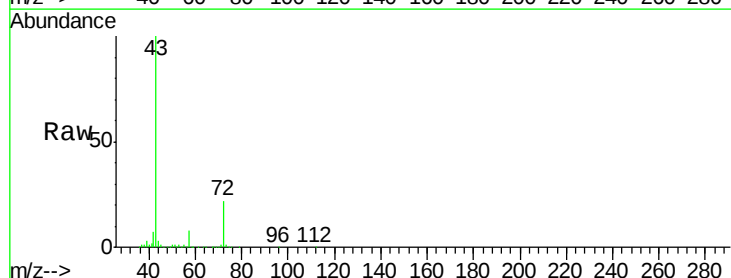
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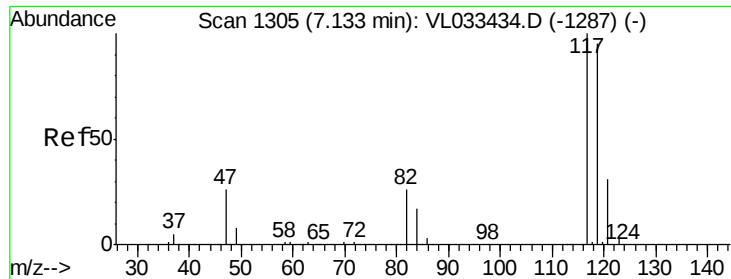
MMDadoda
 4/1/2019 1:26:13 AM



#34
 2-Butanone
 Concen: 9.580 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.4	26.2





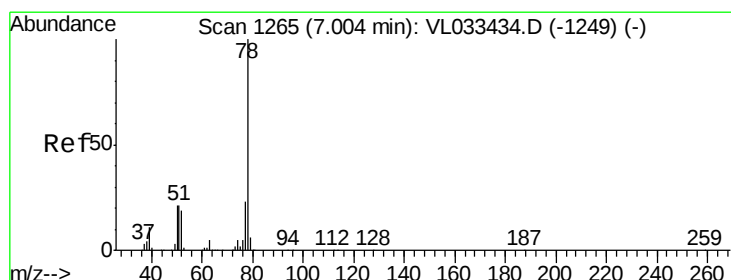
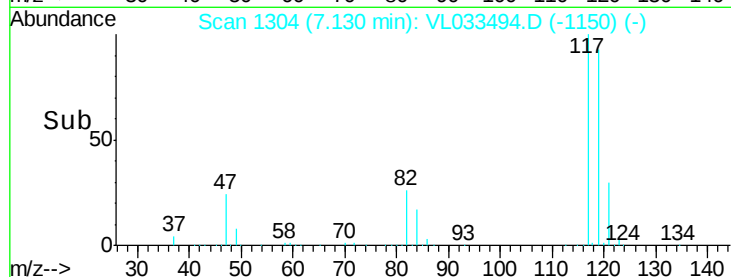
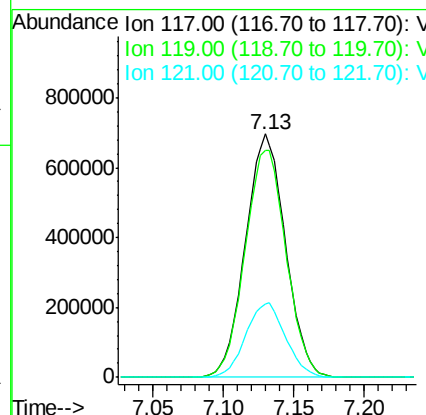
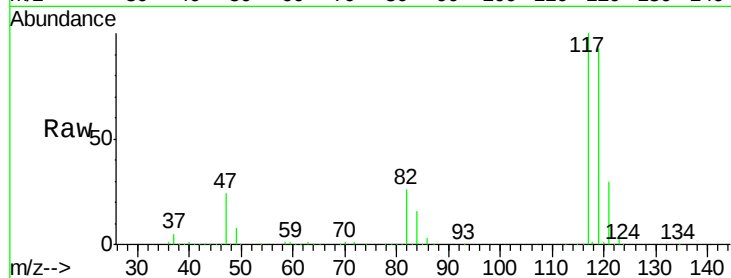
#35
Carbon Tetrachloride
Concen: 9.376 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.4	75.8	113.8
121	30.2	24.7	37.1

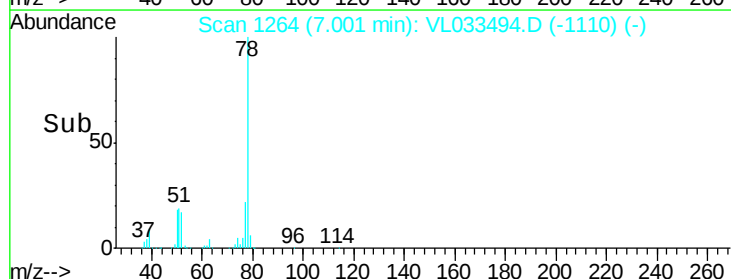
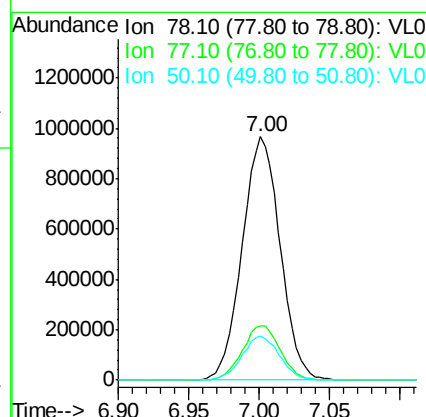
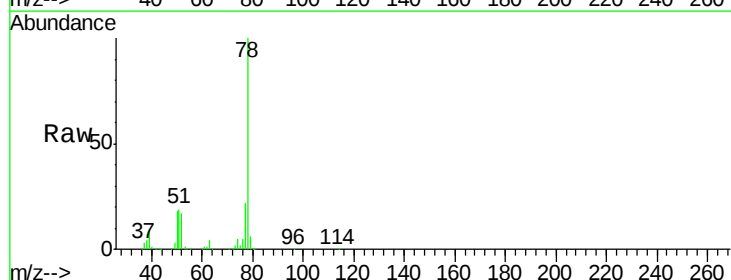
Manual Integrations
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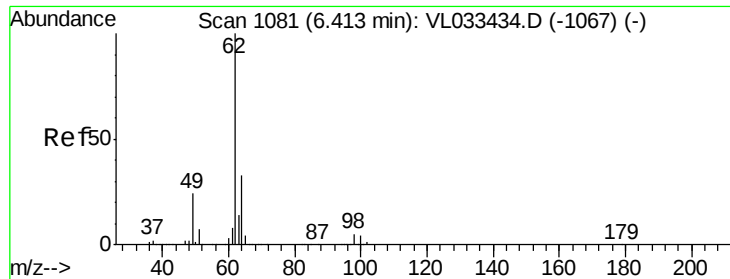
MMDadoda
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#36
Benzene
Concen: 10.433 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.1	27.1
50	17.8	16.7	25.1





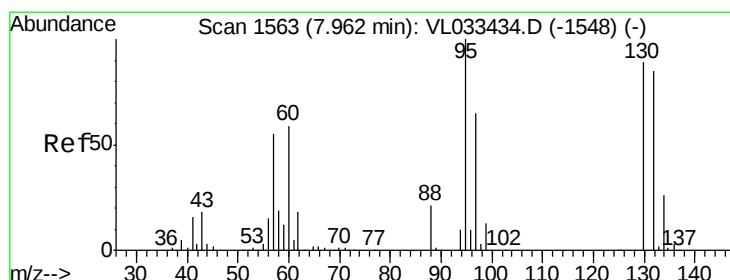
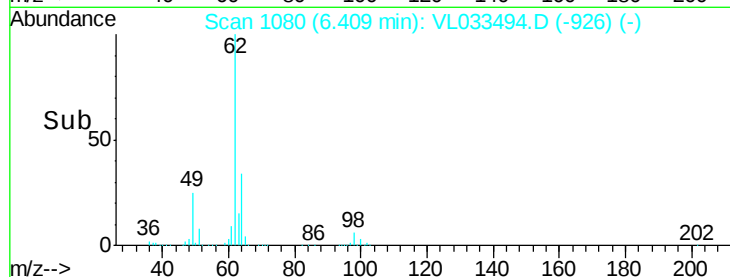
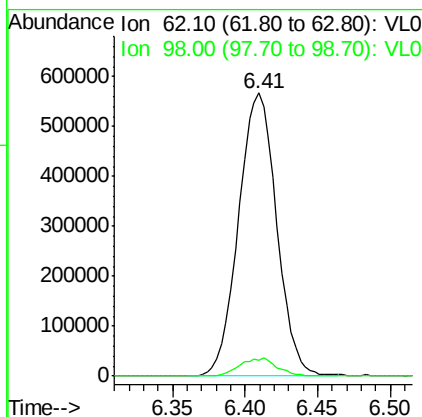
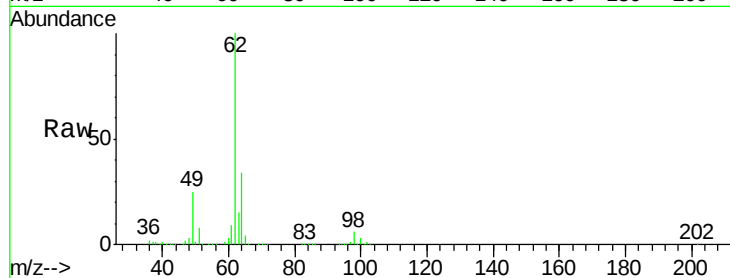
#37
 1,2-Dichloroethane
 Concen: 8.864 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1036853
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.4 6.6

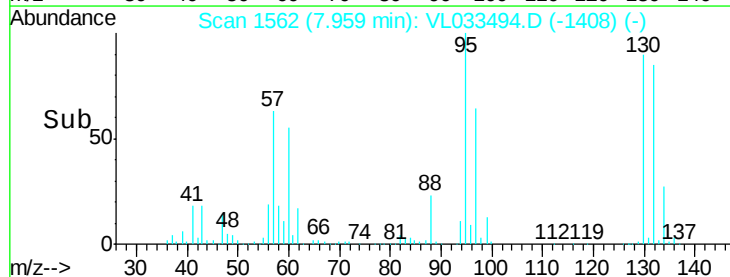
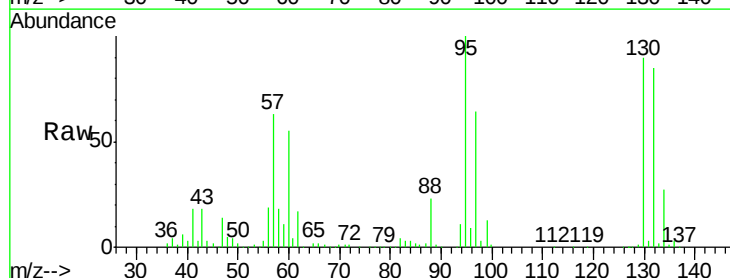
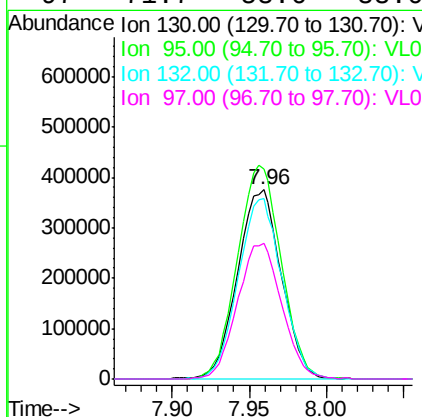
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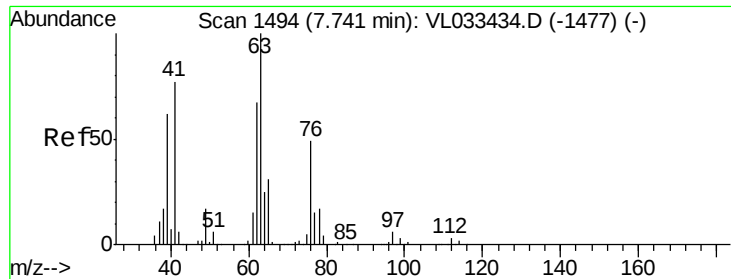
MMDadoda
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#38
 Trichloroethene
 Concen: 11.190 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion: 130 Resp: 734974
 Ion Ratio Lower Upper
 130 100
 95 111.6 89.8 134.8
 132 95.2 76.6 115.0
 97 71.7 58.6 88.0





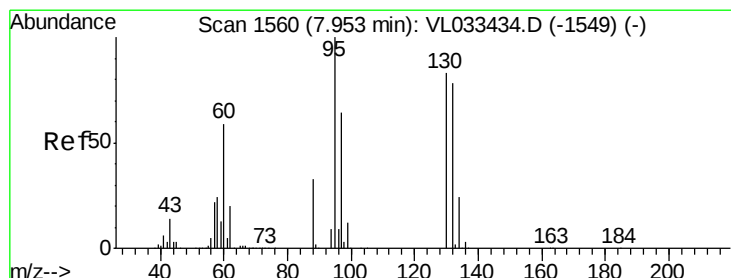
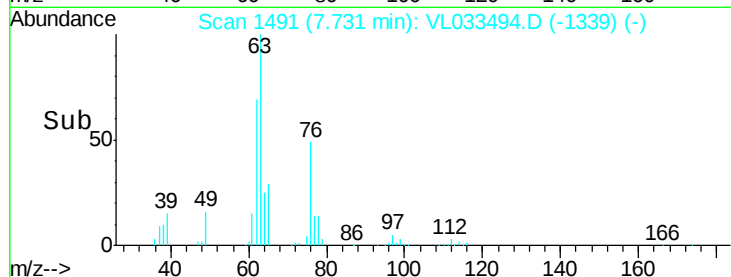
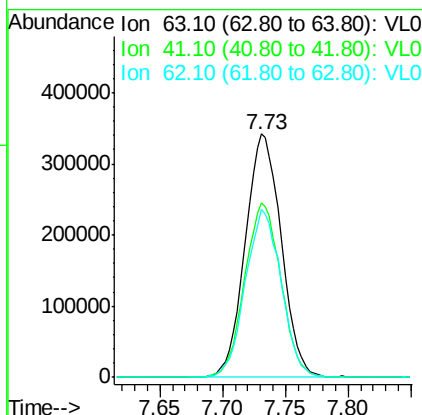
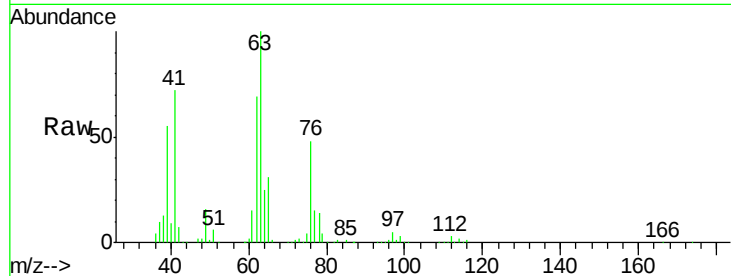
#39
 1,2-Dichloropropane
 Concen: 9.998 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
63	100	683532		
41	71.7		61.2	91.8
62	68.9		54.0	81.0

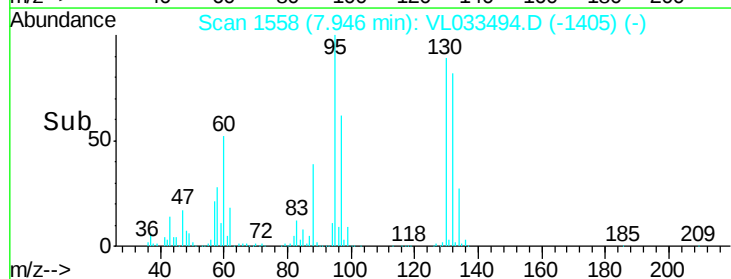
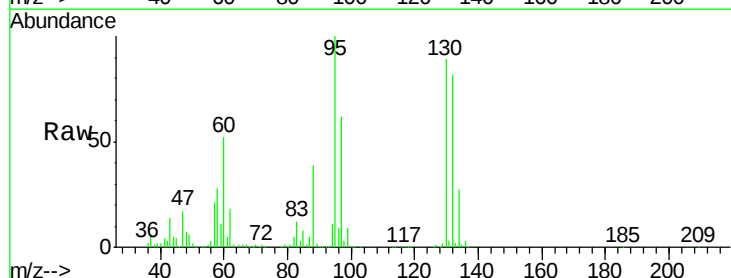
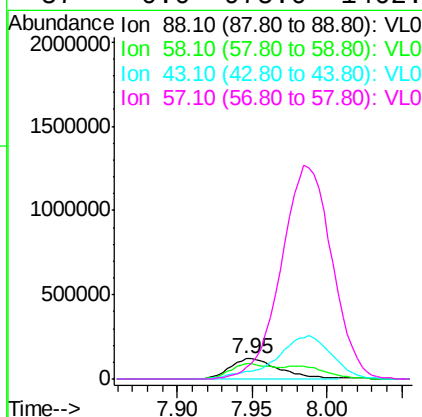
Manual Integrations
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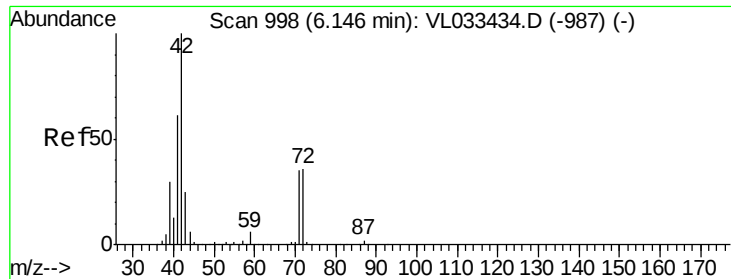
MMDadoda
 4/1/2019 1:26:13 AM



#40
 1,4-Dioxane
 Concen: 11.311 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	275811		
58	122.3		105.6	158.4
43	0.0		216.7	325.1#
57	0.0		975.0	1462.4#





#41

Tetrahydrofuran

Concen: 10.646 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

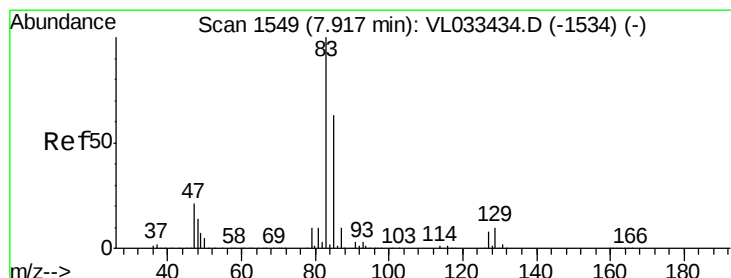
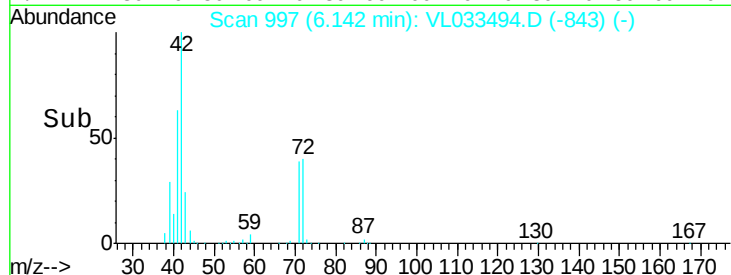
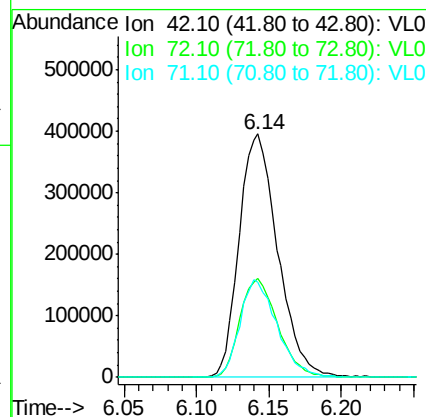
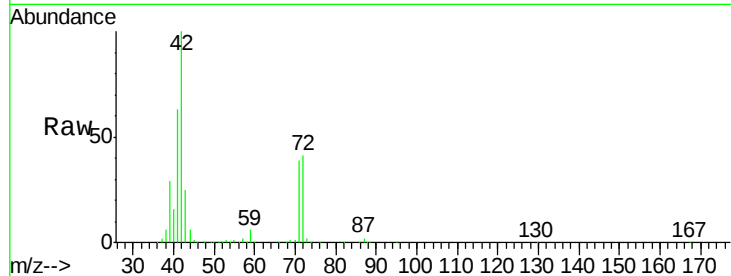
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	731742
Ion Ratio		Lower	Upper
42	100		
72	40.1	30.2	45.2
71	38.8	29.4	44.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.492 ppbv

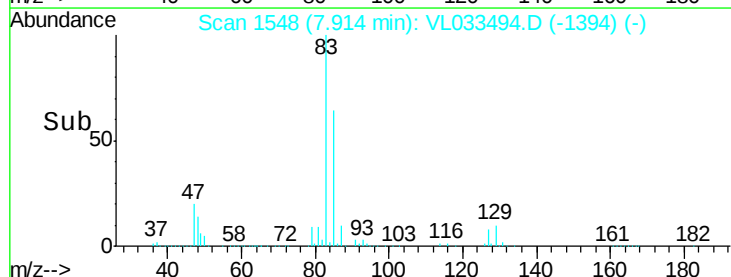
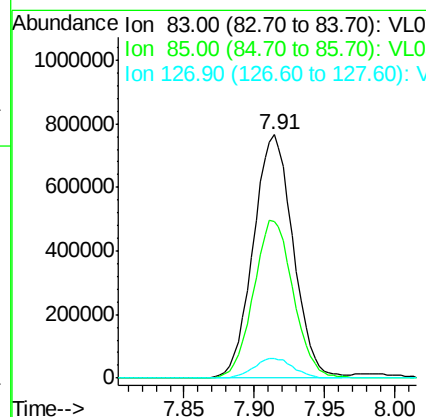
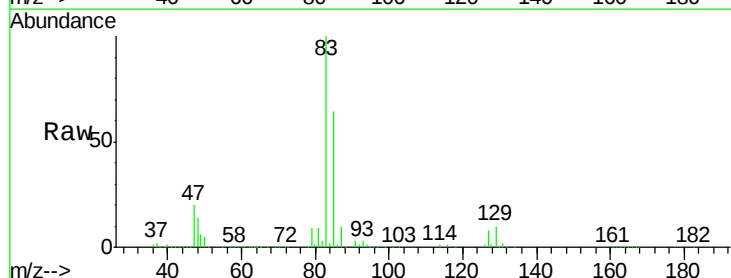
RT: 7.91 min Scan# 1548

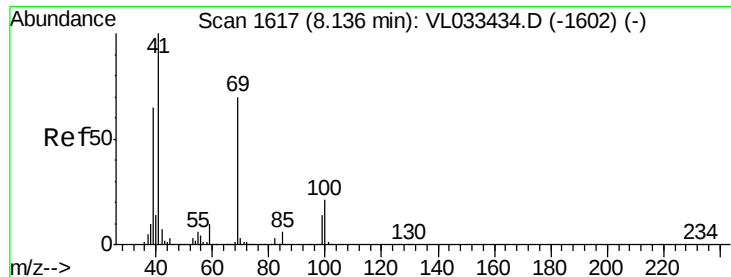
Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion:	83	Resp:	1512250
Ion Ratio		Lower	Upper
83	100		
85	64.2	50.7	76.1
127	8.1	6.6	9.8





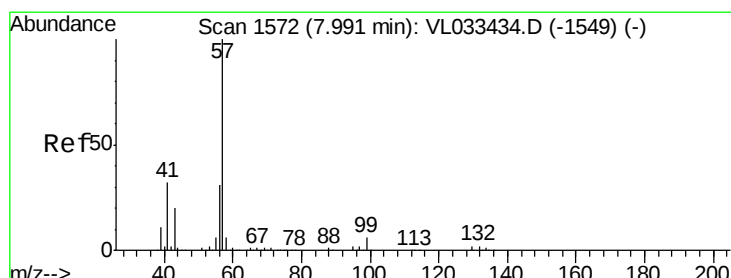
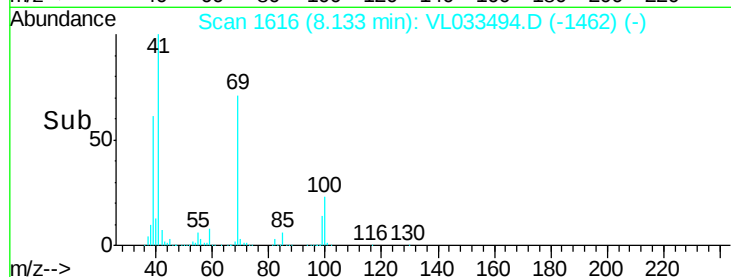
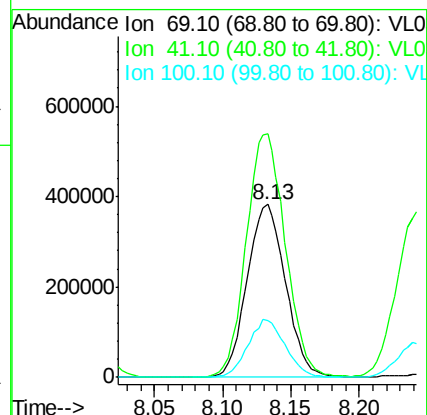
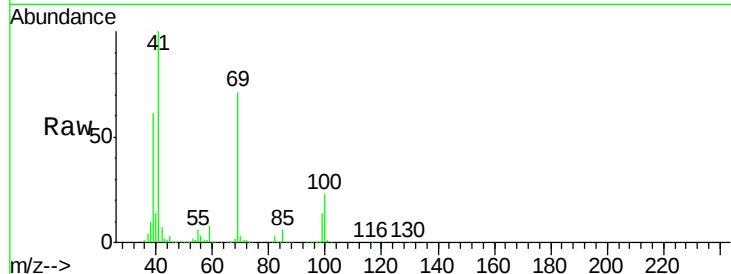
#43
Methvl Methacrilate
Concen: 10.598 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	142.3	116.6	174.8
100	32.4	24.4	36.6

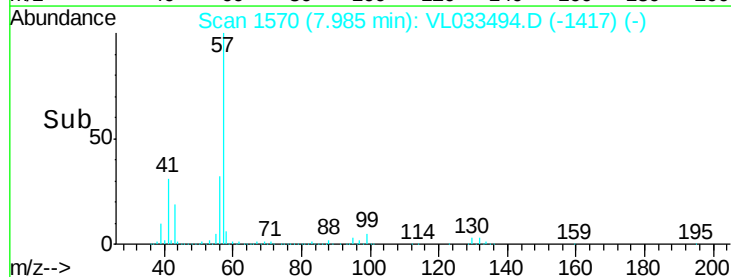
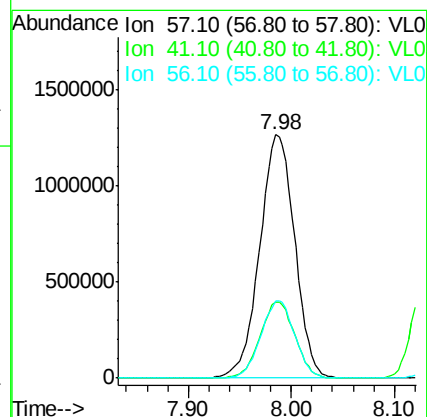
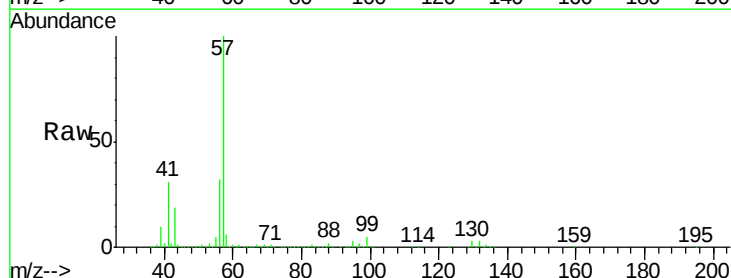
Manual Integrations
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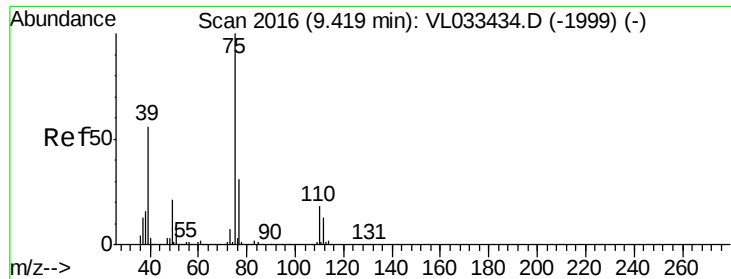
MMDadoda
4/1/2019 1:26:13 AM



#44
2,2,4-Trimethylpentane
Concen: 9.777 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.0	26.0	39.0
56	30.9	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 11.294 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tot Ion: 75 Resp: 982598

Ion Ratio Lower Upper

75 100

77 31.1 24.5 36.7

Instrument :

MSVOA_L

ClientSampleId :

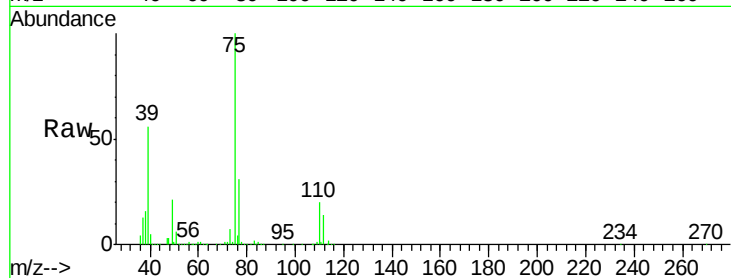
VSTDCCC010EC

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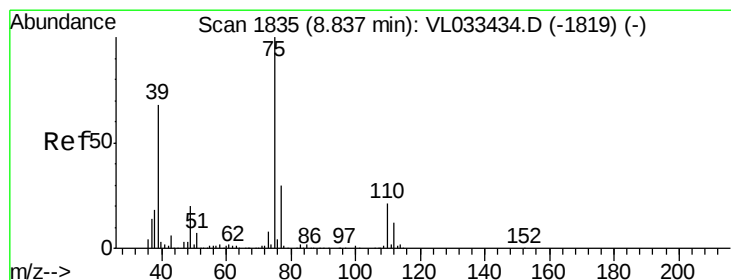
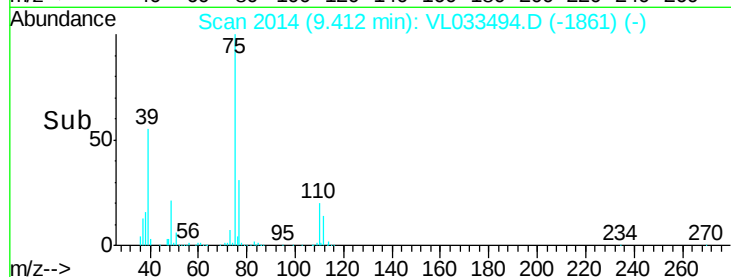
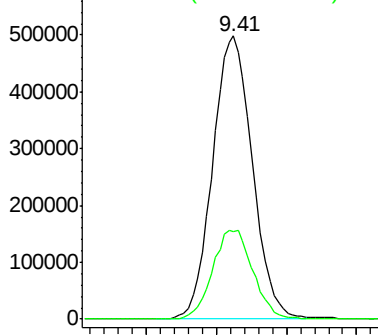
MMDadoda

4/1/2019 1:26:13 AM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.009 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

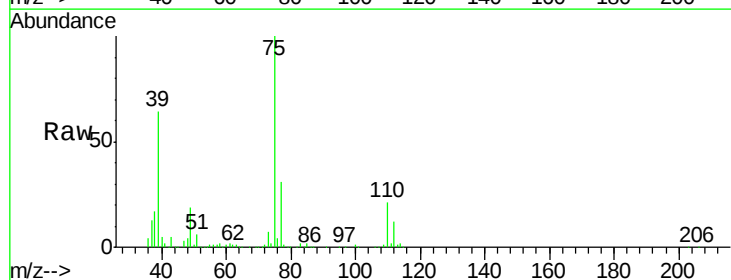
Tgt Ion: 75 Resp: 1118545

Ion Ratio Lower Upper

75 100

39 63.4 54.1 81.1

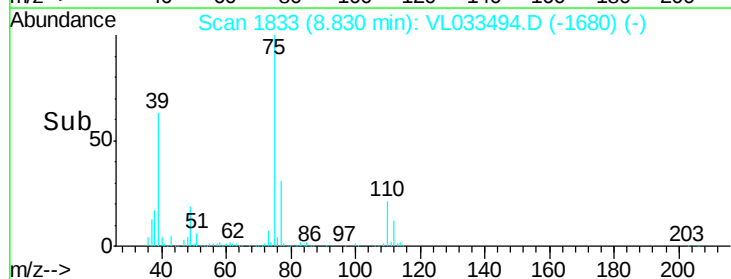
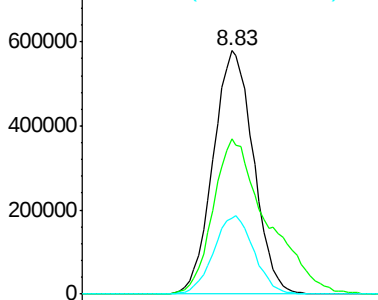
77 31.0 23.9 35.9

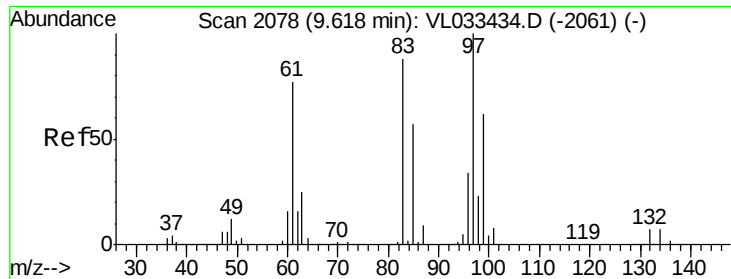


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





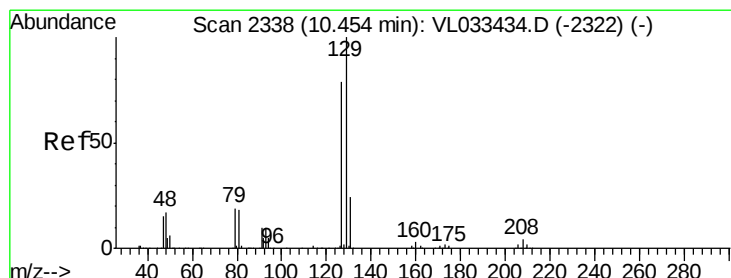
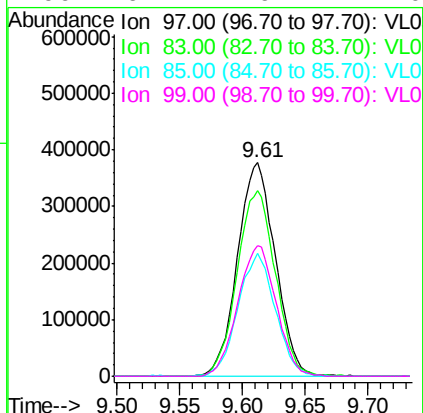
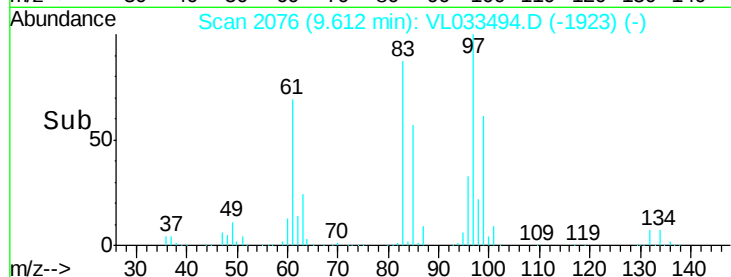
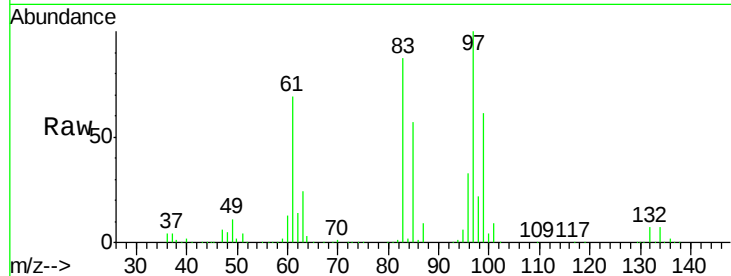
#47
 1,1,2-Trichloroethane
 Concen: 10.181 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.9	70.5	105.7	
85	57.3	45.6	68.4	
99	61.1	49.4	74.0	

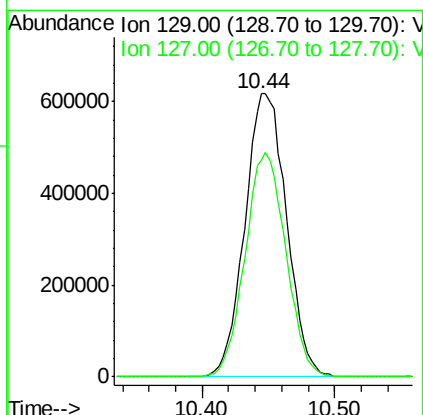
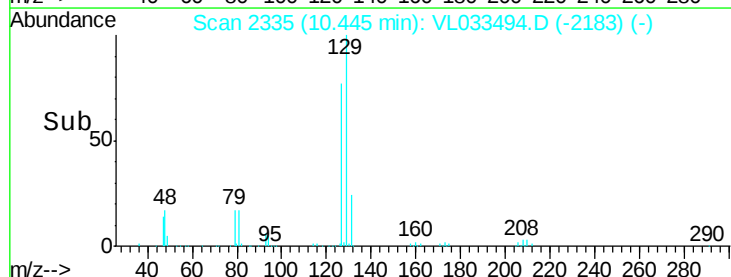
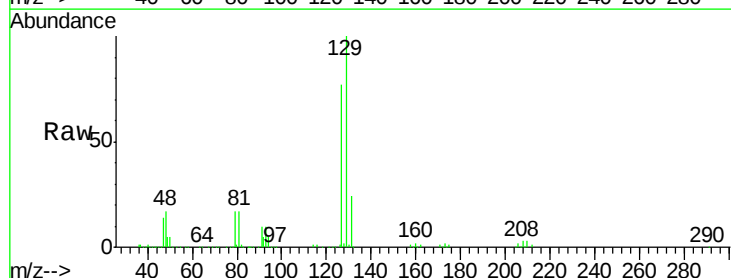
Manual Integrations
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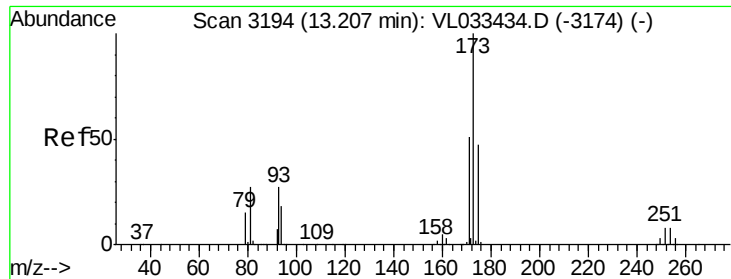
MMDadoda
 4/1/2019 1:26:13 AM



#48
 Dibromochloromethane
 Concen: 10.272 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.6	39.1	117.2	





#49

Bromoform

Concen: 9.655 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1207828

Ion Ratio Lower Upper

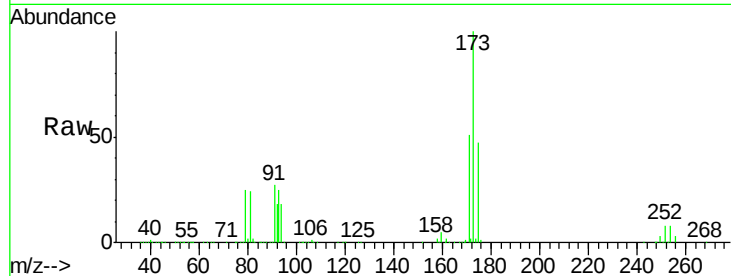
173 100

175 49.3 39.3 58.9

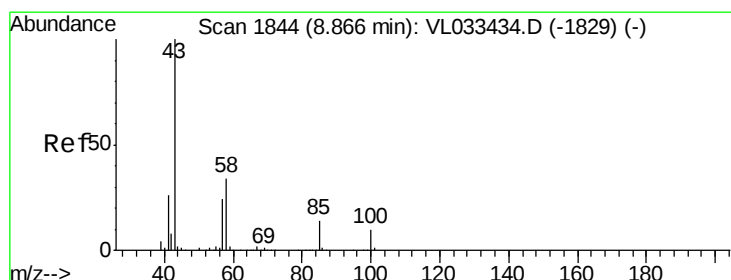
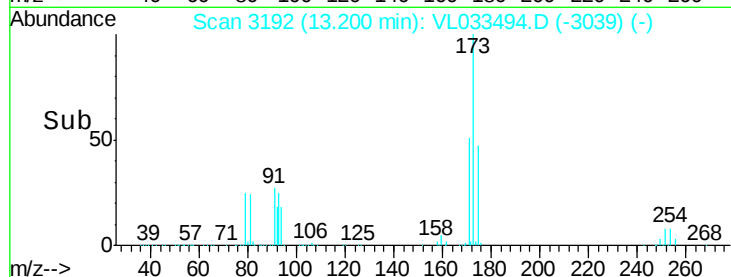
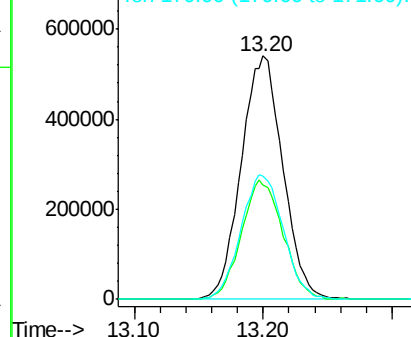
171 52.5 41.2 61.8

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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.987 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033494.D

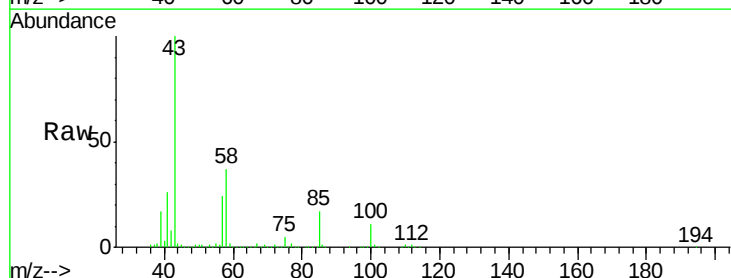
Acq: 28 Mar 2019 8:14

Tgt Ion: 43 Resp: 1827510

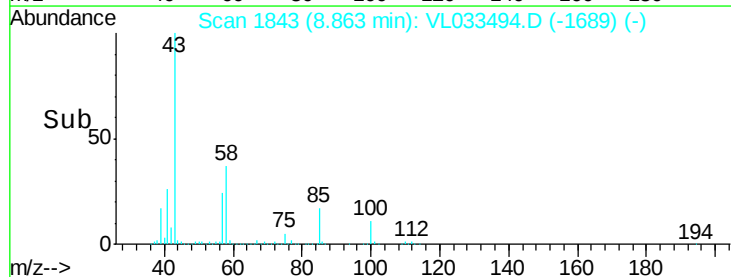
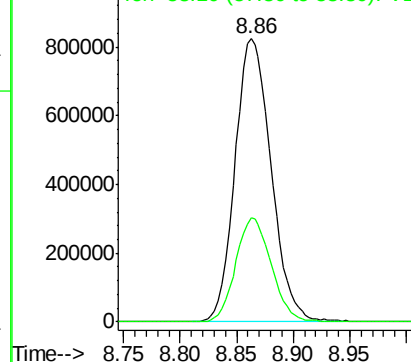
Ion Ratio Lower Upper

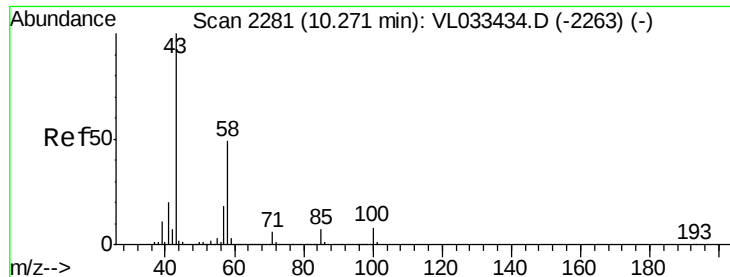
43 100

58 36.4 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





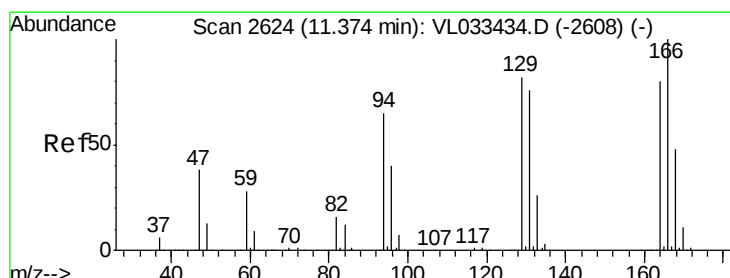
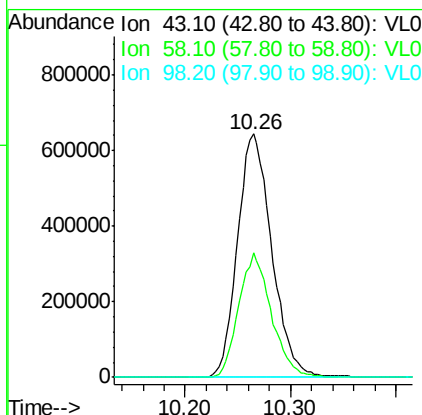
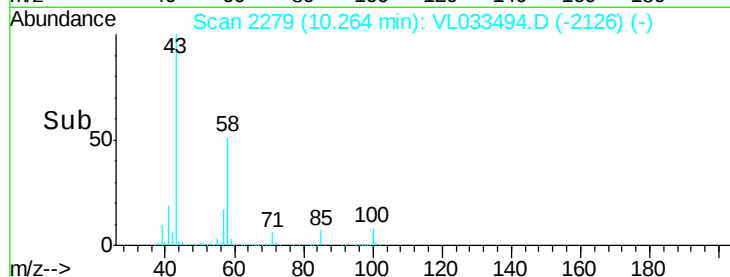
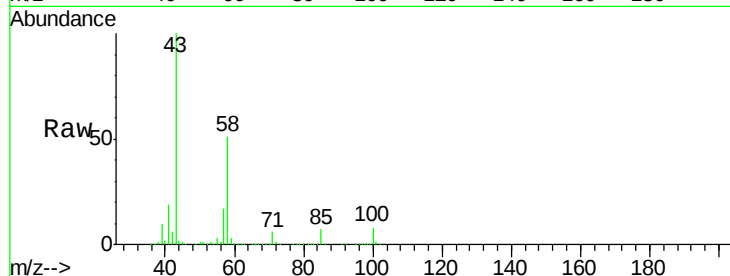
#51
2-Hexanone
Concen: 10.625 ppbv
RT: 10.26 min Scan# 2279
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1450228
Ion Ratio Lower Upper
43 100
58 49.0 38.2 57.2
98 0.2 0.2 0.2

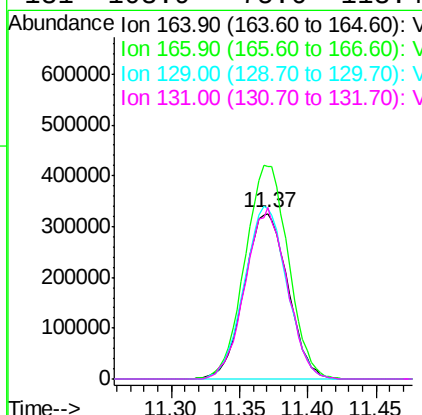
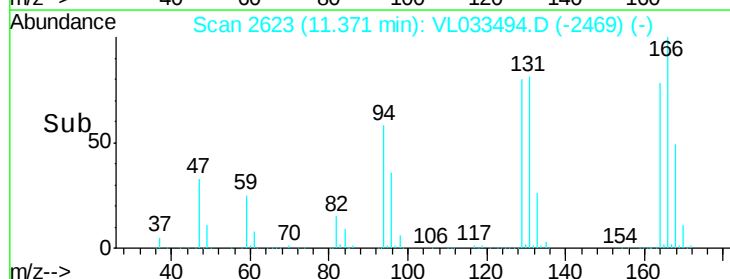
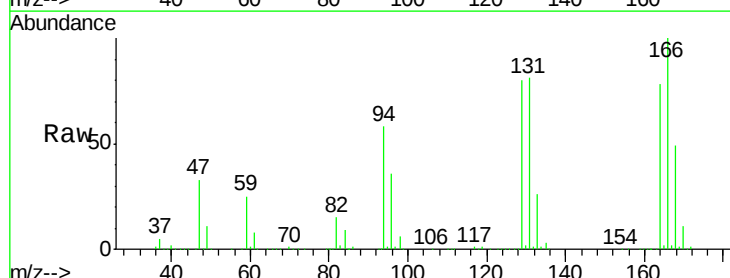
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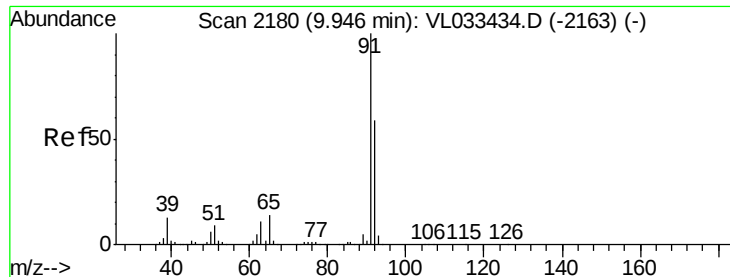
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#52
Tetrachloroethene
Concen: 10.984 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion: 164 Resp: 723293
Ion Ratio Lower Upper
164 100
166 128.6 99.5 149.3
129 102.8 81.4 122.2
131 103.9 75.6 113.4





#53

Toluene

Concen: 11.052 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2241351

Ion Ratio Lower Upper

91 100

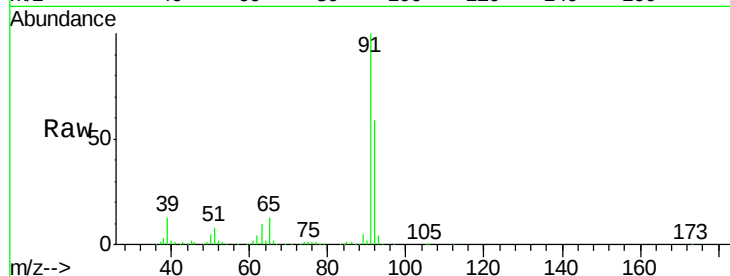
92 60.1 47.4 71.0

Manual Integrations

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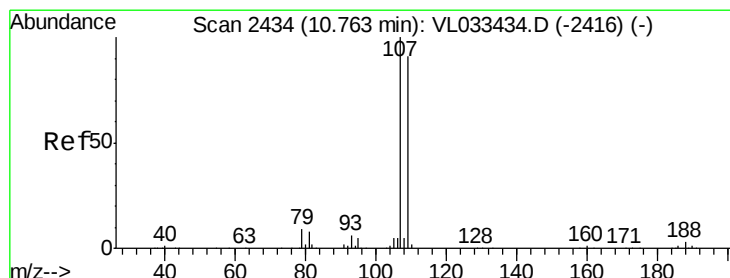
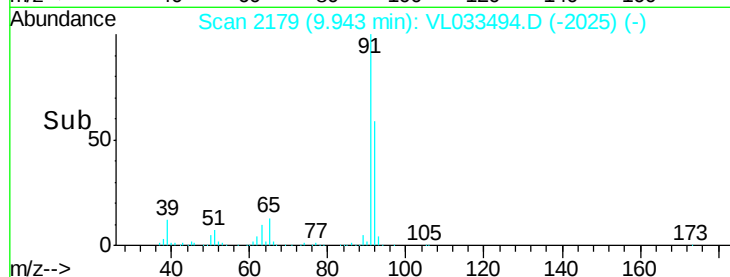
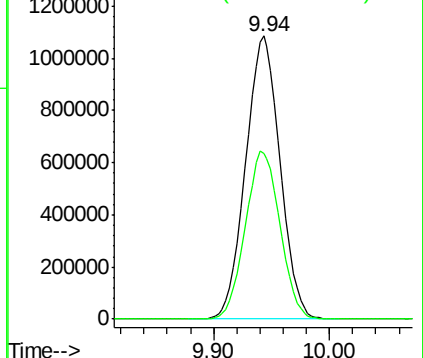
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.325 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033494.D

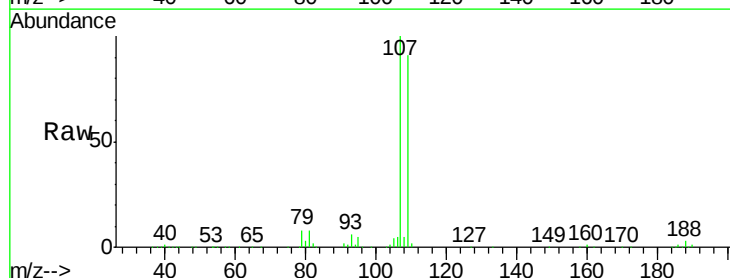
Acq: 28 Mar 2019 8:14

Tgt Ion: 107 Resp: 1253663

Ion Ratio Lower Upper

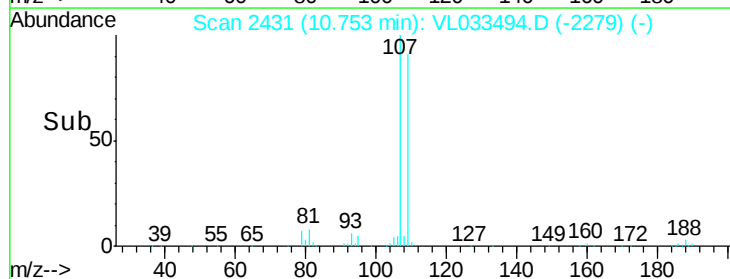
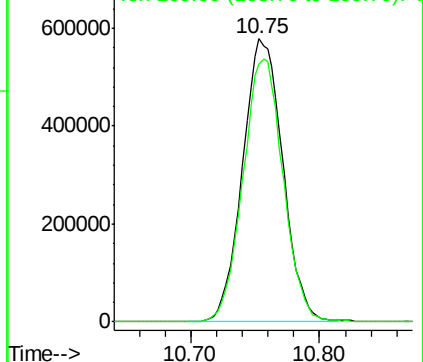
107 100

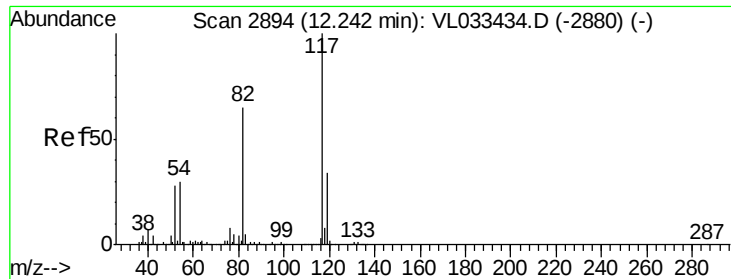
109 90.9 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





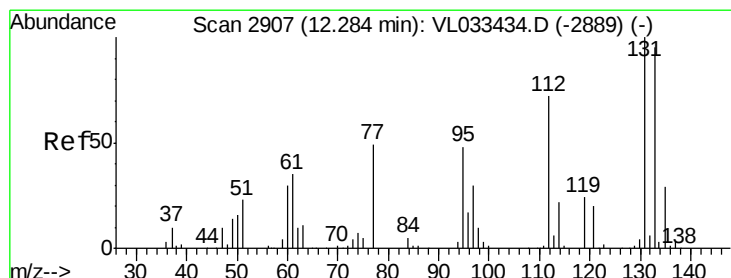
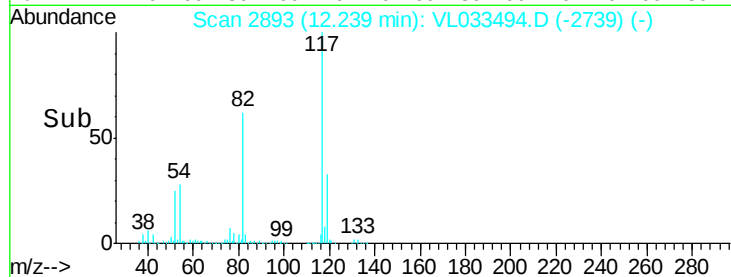
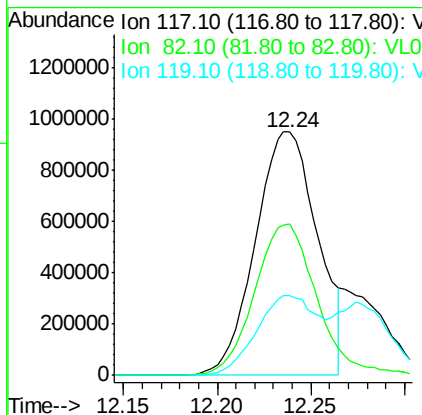
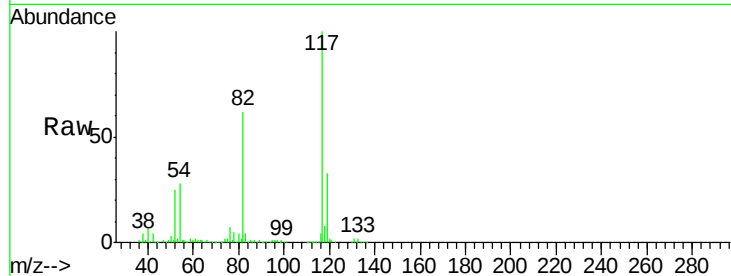
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2183261
Ion Ratio Lower Upper
117 100
82 62.6 51.5 77.3
119 32.3 25.5 38.3

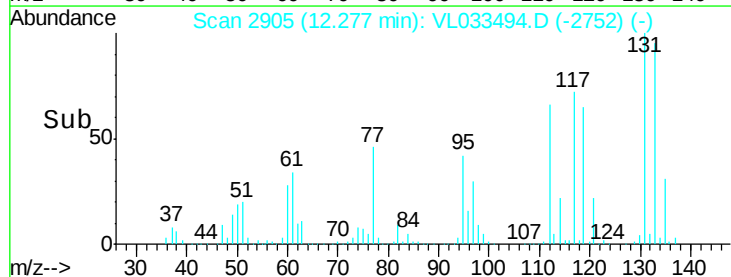
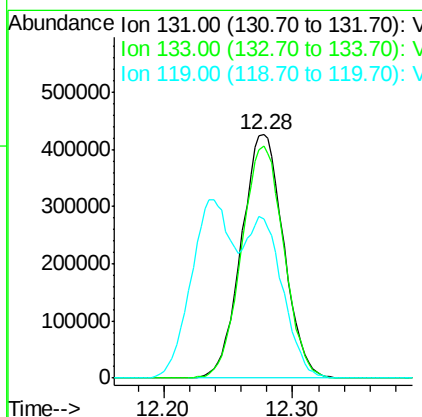
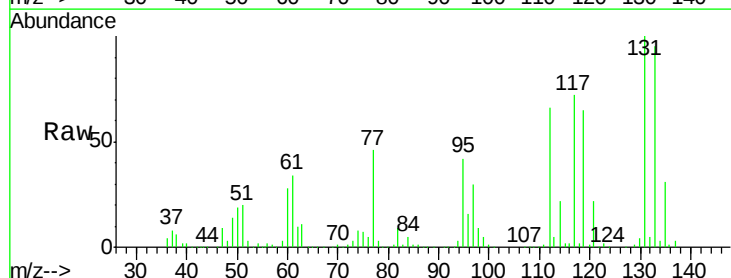
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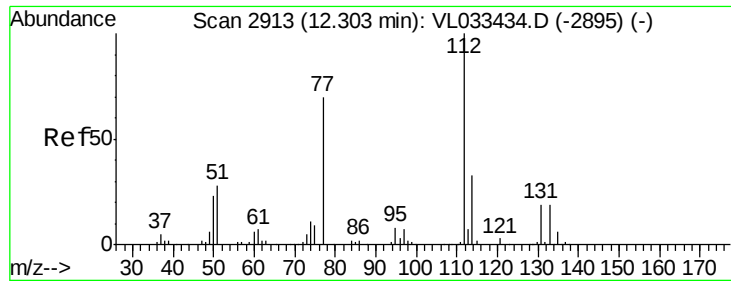
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.684 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion:131 Resp: 969032
Ion Ratio Lower Upper
131 100
133 95.5 76.2 114.4
119 63.7 45.0 67.6





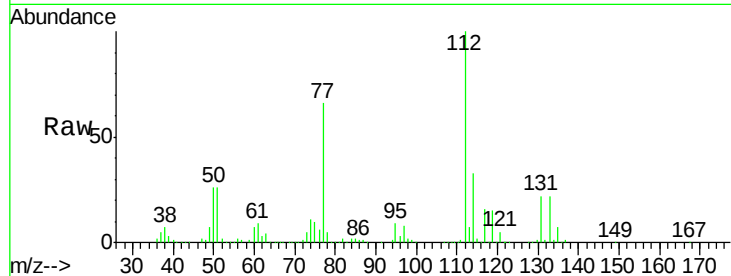
#57
Chlorobenzene
Concen: 10.085 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

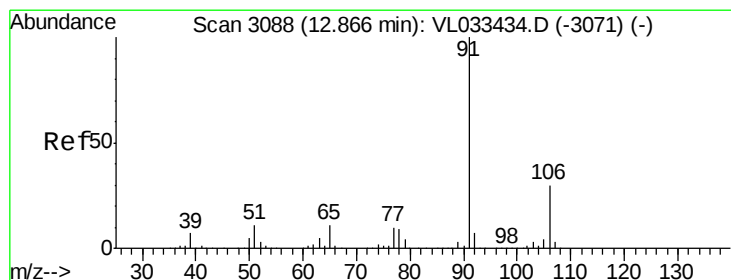
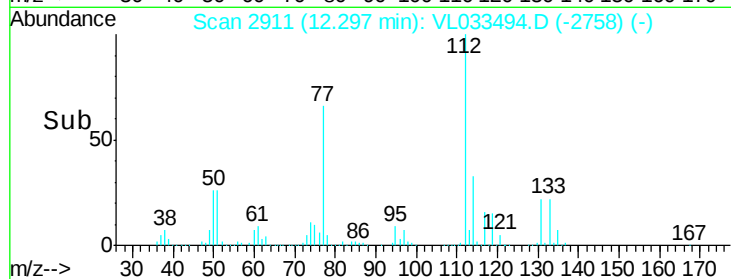
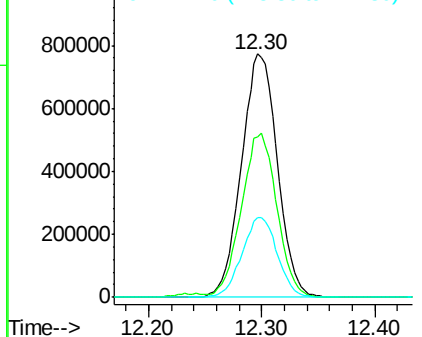
Tot Ion:112 Resp: 1709700
Ion Ratio Lower Upper
112 100
77 65.9 57.3 85.9
114 32.6 29.8 36.4

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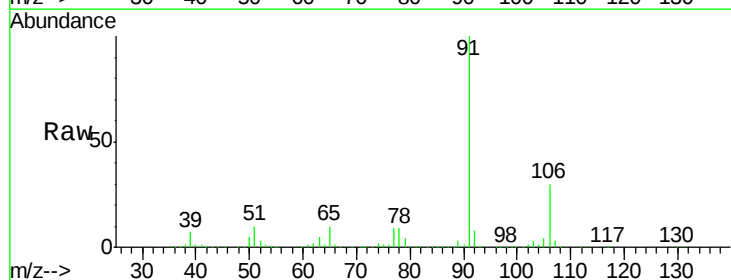


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

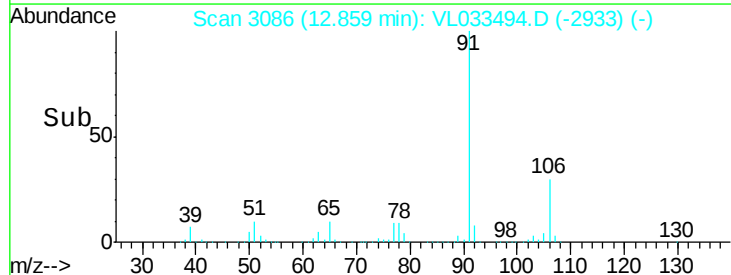
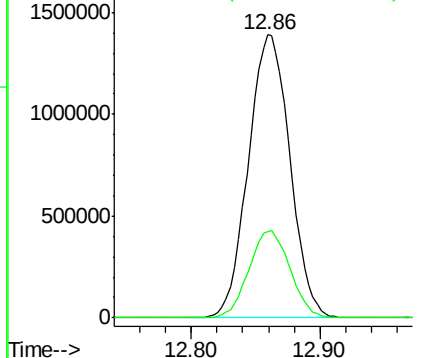


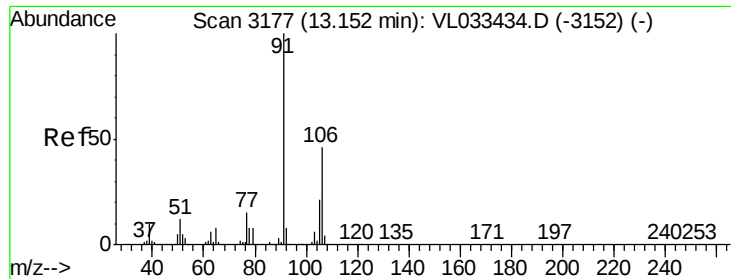
#58
Ethyl Benzene
Concen: 10.704 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion: 91 Resp: 3120868
Ion Ratio Lower Upper
91 100
106 30.3 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





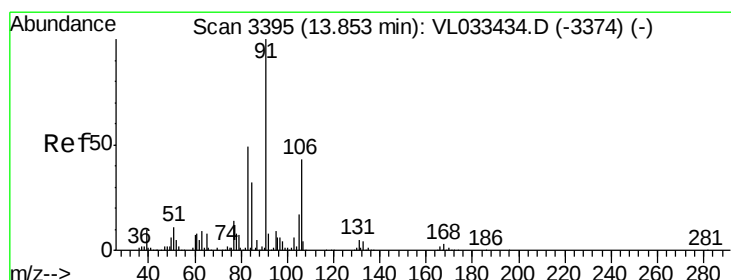
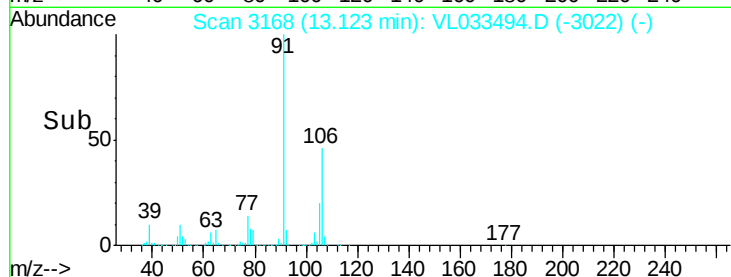
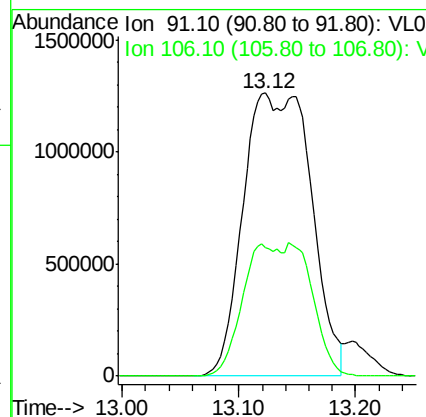
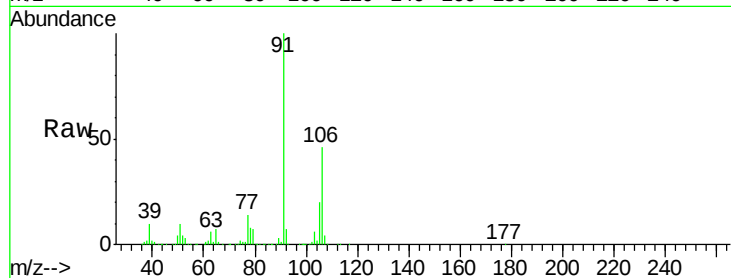
#59
m/p-Xylene
Concen: 19.619 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5109135
Ion Ratio Lower Upper
91 100
106 46.5 0.0 0.0#

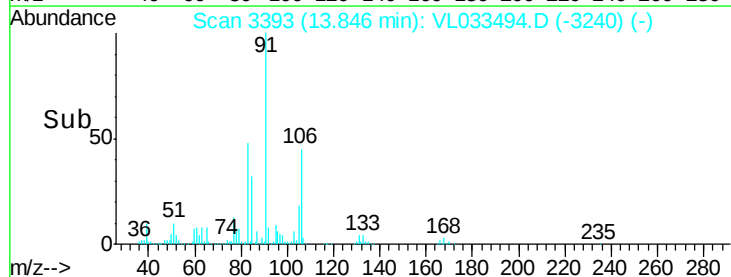
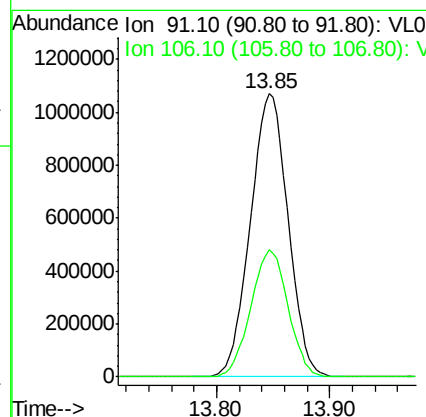
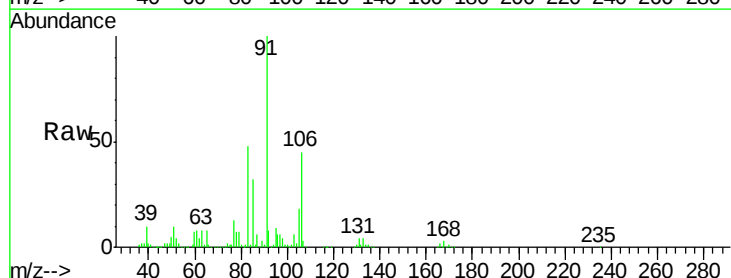
Manual Integrations
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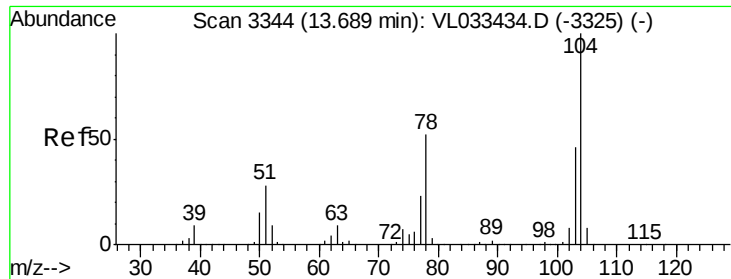
MMDadoda
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#60
o-Xylene
Concen: 9.819 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion: 91 Resp: 2472789
Ion Ratio Lower Upper
91 100
106 44.6 21.4 64.3





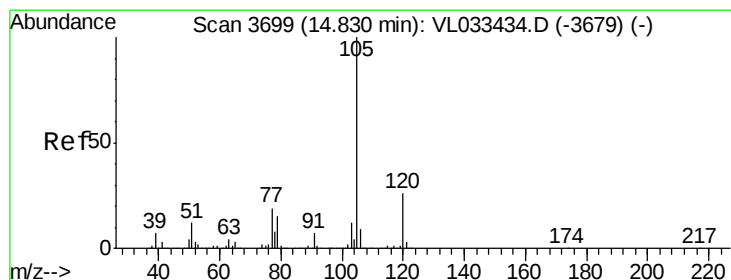
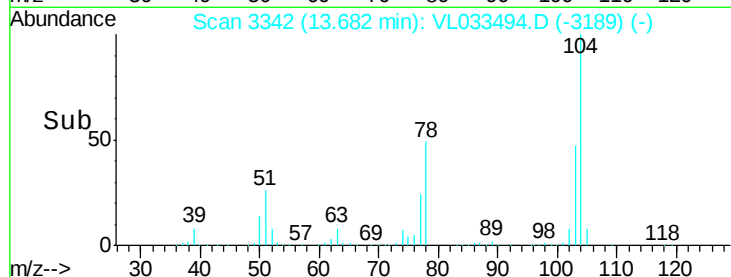
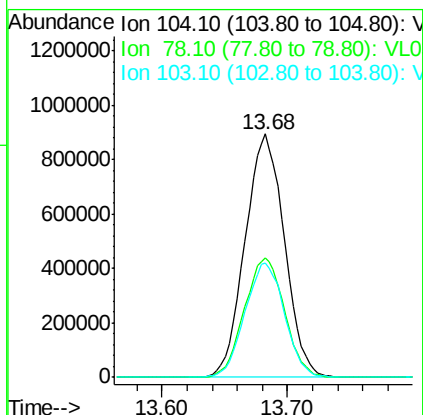
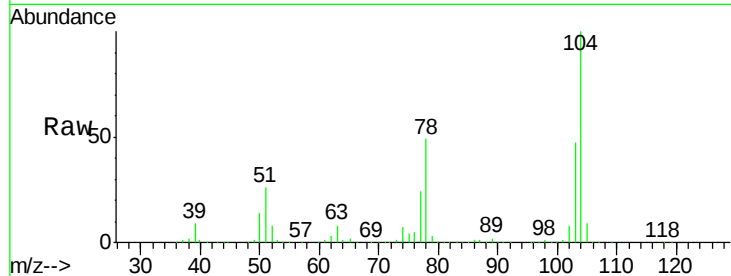
#61
Stvrene
Concen: 11.298 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.2	43.2	64.8
103	47.3	37.8	56.8

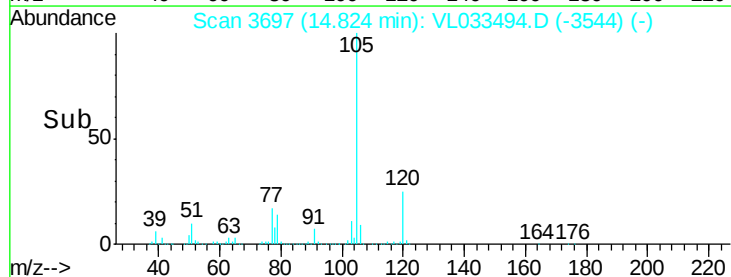
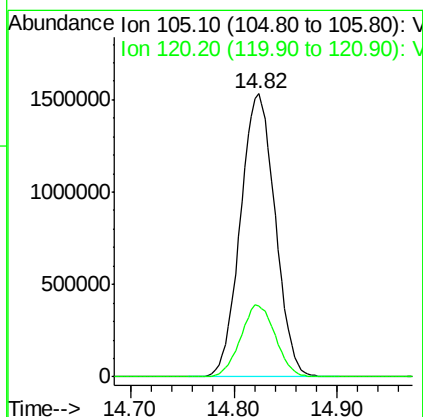
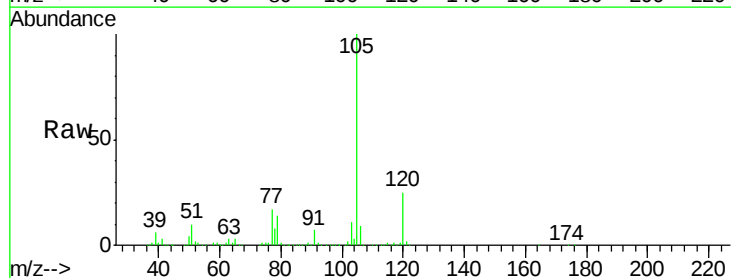
Manual Integrations
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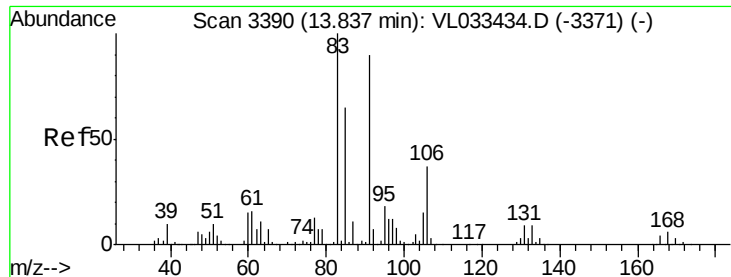
MMDadoda
4/1/2019 1:26:13 AM



#62
Isopropylbenzene
Concen: 10.074 ppbv
RT: 14.82 min Scan# 3697
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.2	30.2





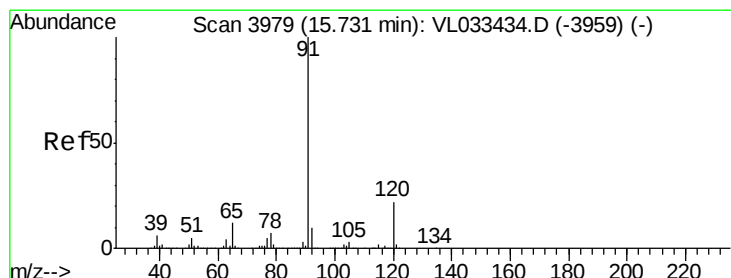
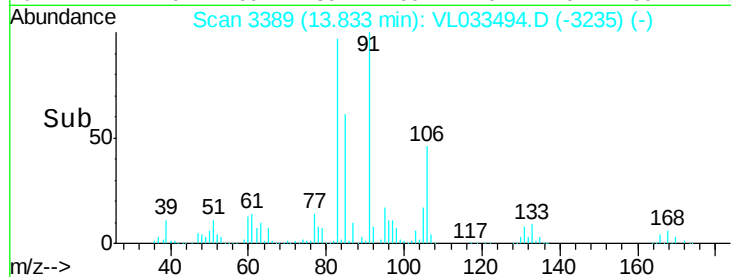
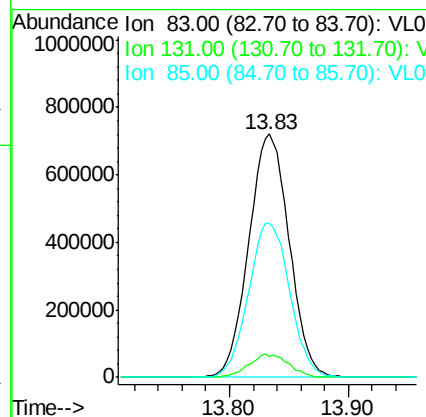
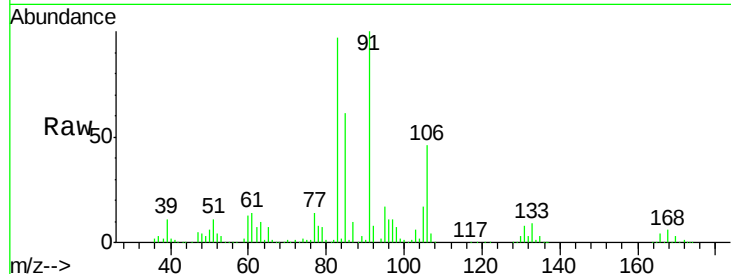
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.148 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1696306
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.7	14.0
85	64.9	32.7	98.1

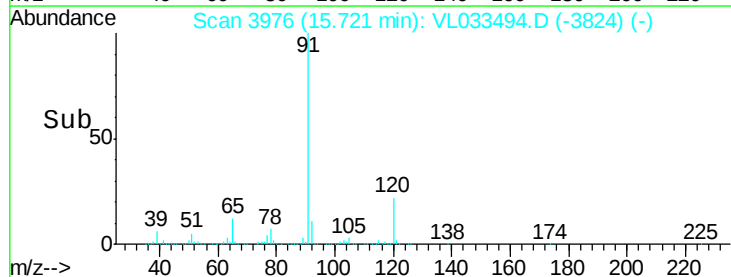
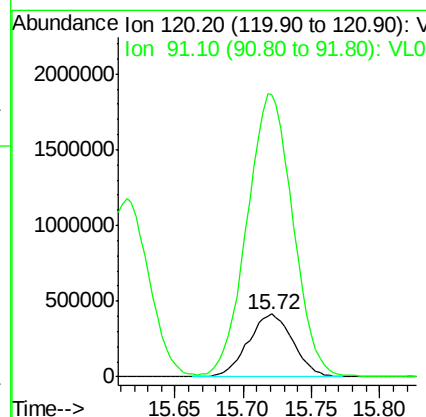
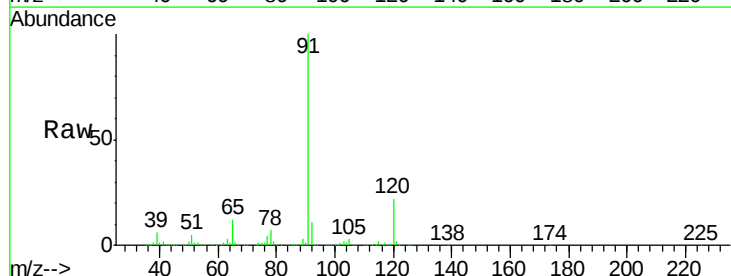
Manual Integrations
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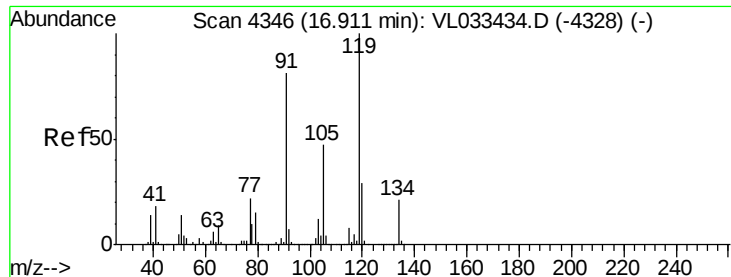
MMDadoda
 4/1/2019 1:26:13 AM



#64
 n-propylbenzene
 Concen: 10.429 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion	120	Resp	943715
Ion Ratio	100	Lower	Upper
120	100		
91	463.0	387.4	581.2





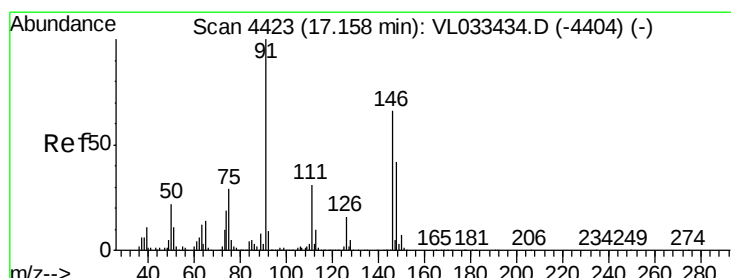
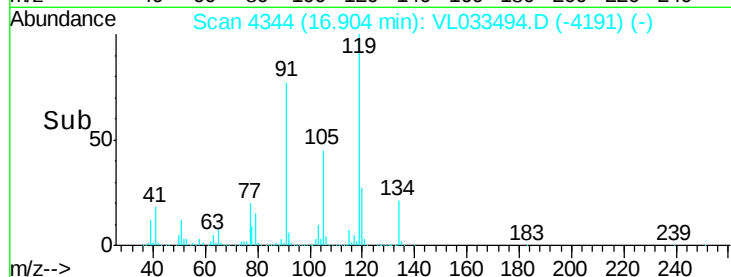
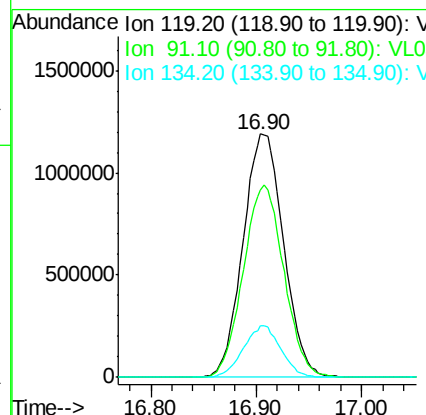
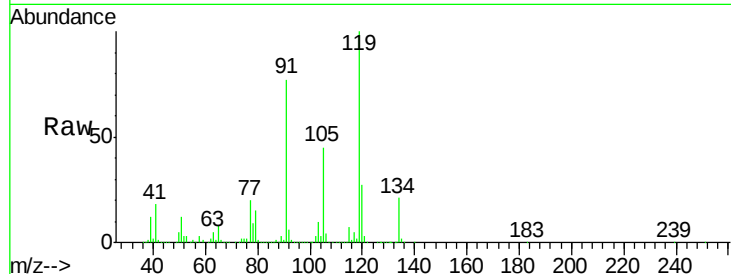
#65
tert-Butylbenzene
Concen: 10.118 ppbv
RT: 16.90 min Scan# 4344
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 119 Resp: 3179553
Ion Ratio Lower Upper
119 100
91 79.2 66.4 99.6
134 19.7 15.5 23.3

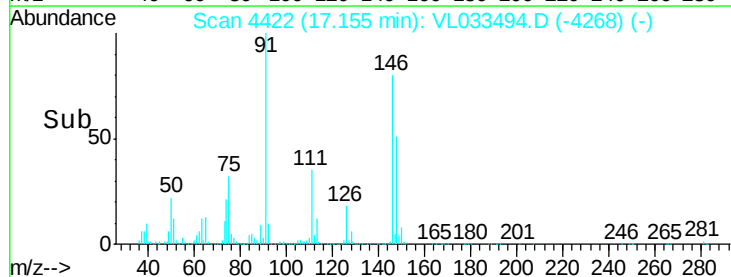
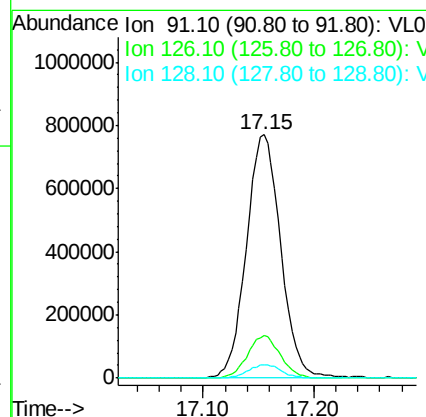
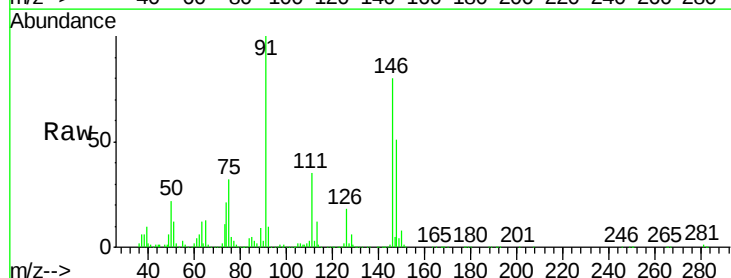
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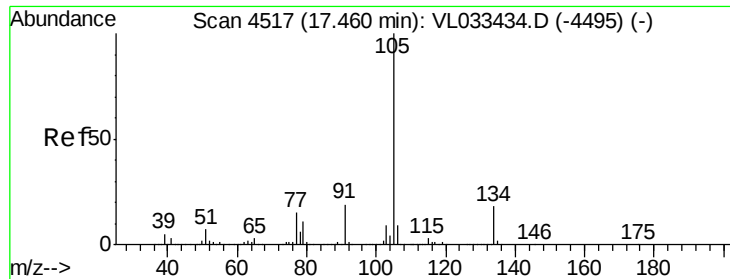
MMDadoda
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#66
Benzyl Chloride
Concen: 11.339 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion: 91 Resp: 1656898
Ion Ratio Lower Upper
91 100
126 17.0 13.0 19.6
128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.996 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4467031

Ion Ratio Lower Upper

105 100

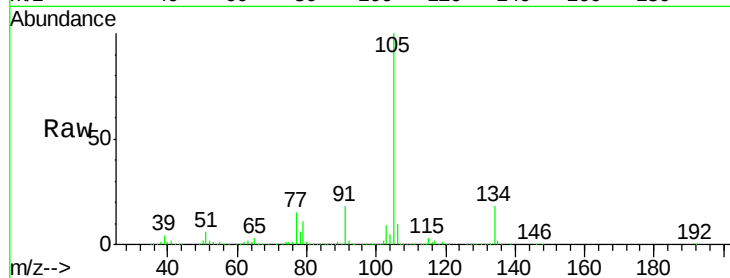
134 18.3 14.6 21.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.45

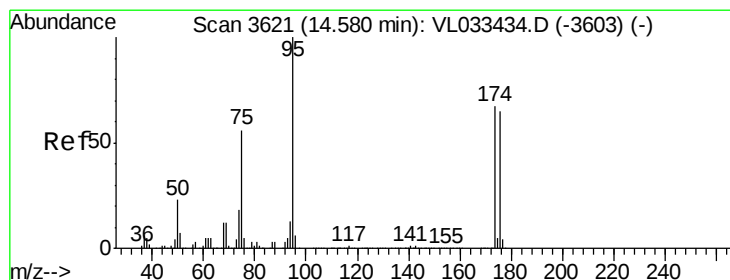
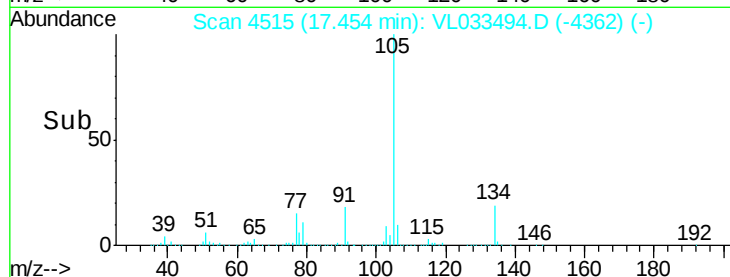
1500000

1000000

500000

0

Time--> 17.30 17.40 17.50 17.60



#68

1-Bromo-4-Fluorobenzene

Concen: 9.319 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

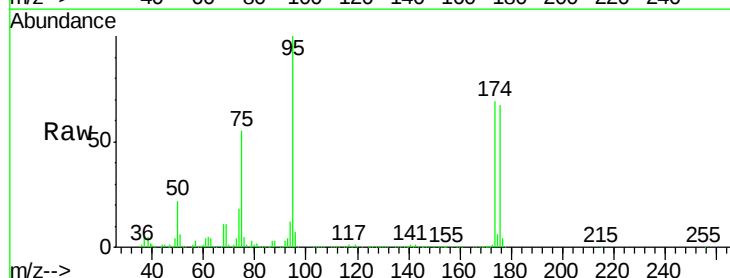
Tgt Ion: 95 Resp: 1595067

Ion Ratio Lower Upper

95 100

174 68.7 52.9 79.3

175 5.0 3.8 5.6



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

800000

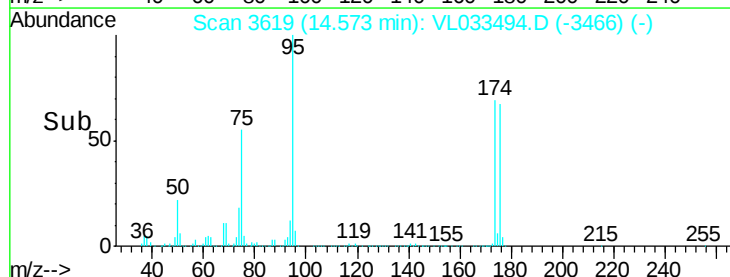
600000

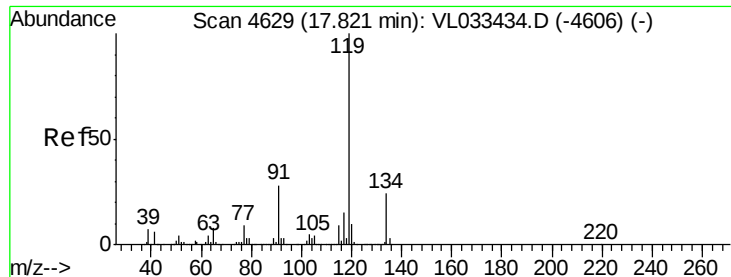
400000

200000

0

Time--> 14.50 14.60





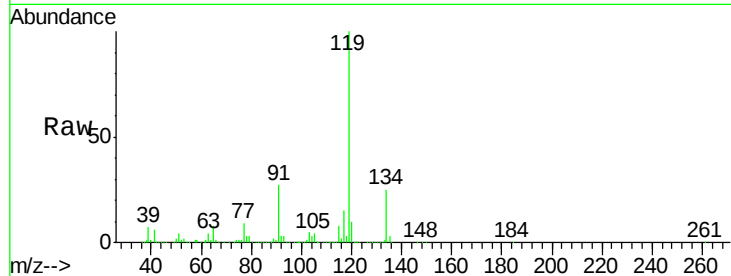
#69
 p-Isopropyltoluene
 Concen: 10.244 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

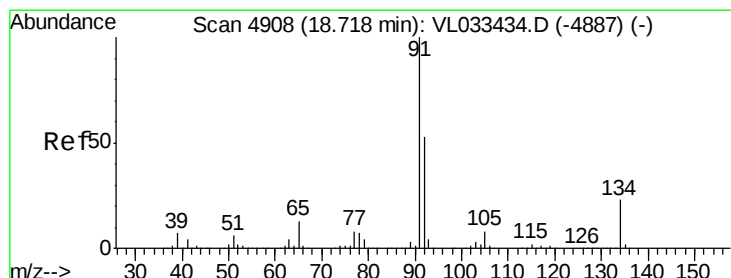
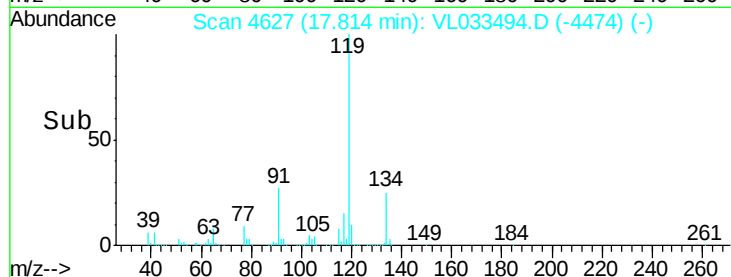
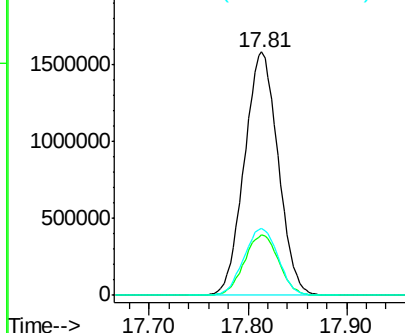
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	19.9	29.9
91	28.1	23.4	35.0

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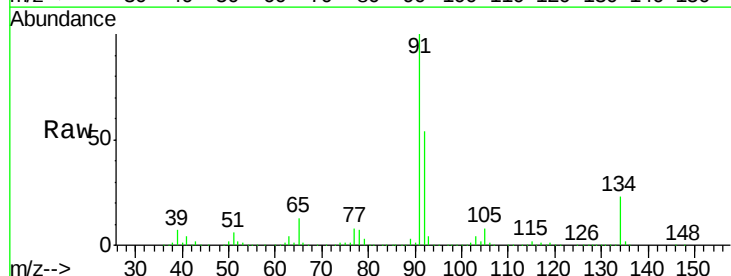


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

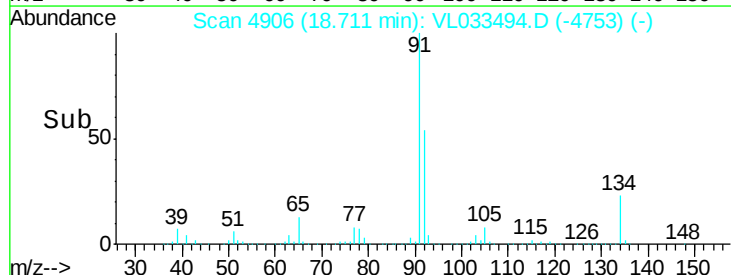
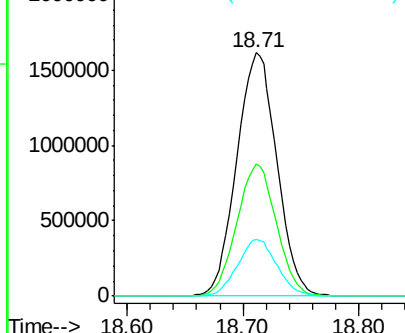


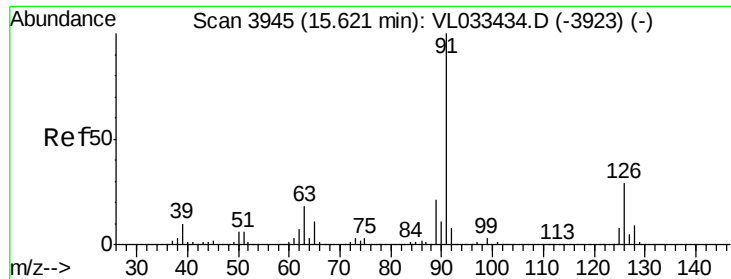
#70
 n-Butylbenzene
 Concen: 10.003 ppbv
 RT: 18.71 min Scan# 4906
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.9	42.6	64.0
134	23.1	17.5	26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.067 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2729735

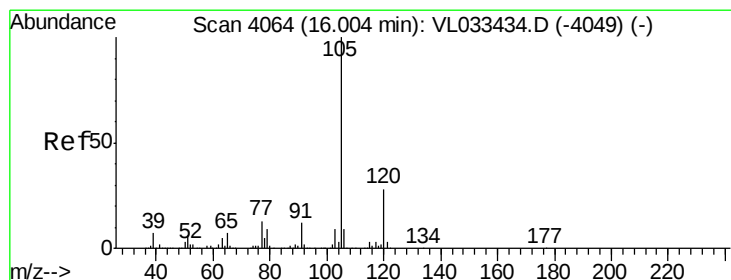
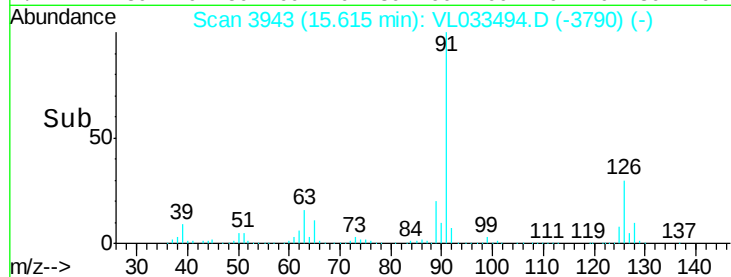
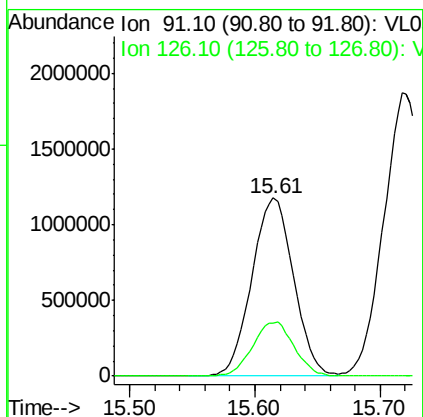
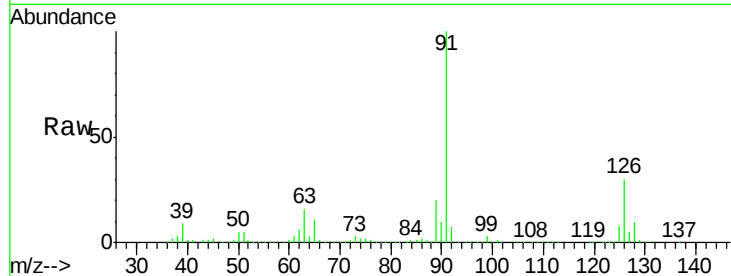
Ion Ratio Lower Upper

91 100

126 30.4 11.7 46.9

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#72

4-Ethyltoluene

Concen: 10.526 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion:105 Resp: 2979498

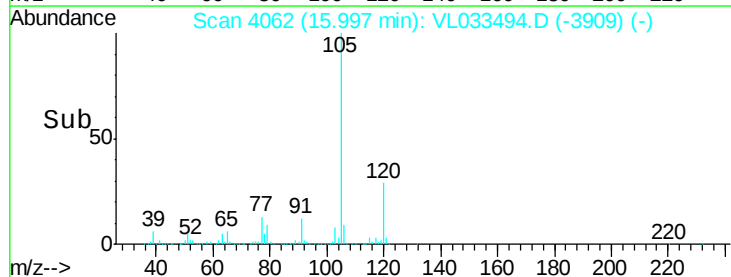
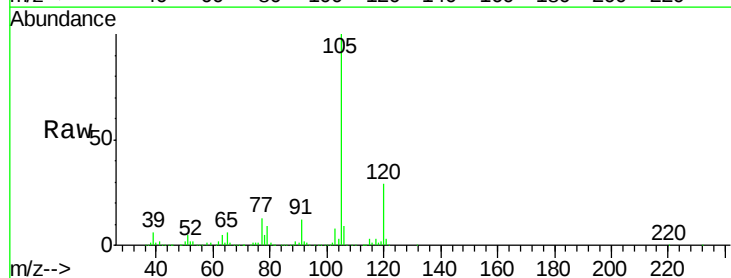
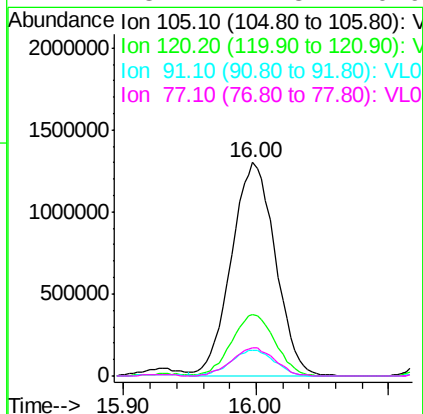
Ion Ratio Lower Upper

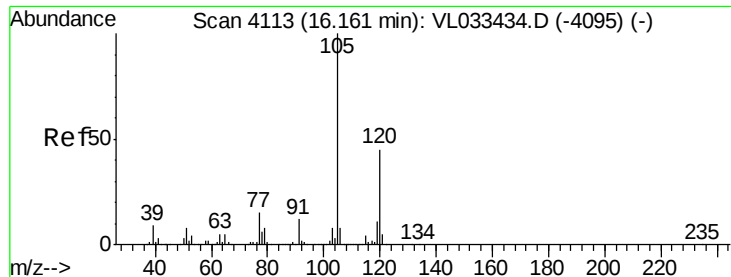
105 100

120 29.0 23.2 34.8

91 12.2 10.4 15.6

77 13.2 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.426 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2824263

Ion Ratio Lower Upper

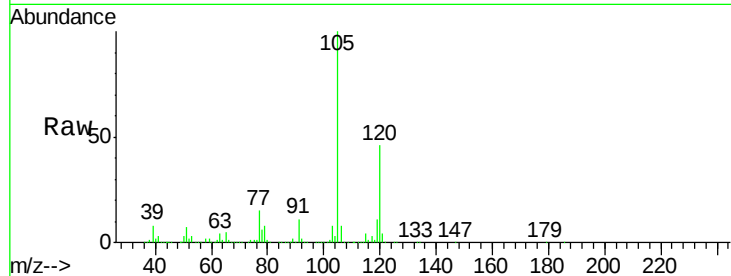
105 100

120 46.0 35.7 53.5

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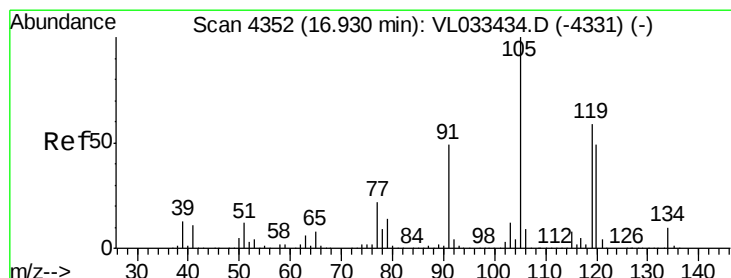
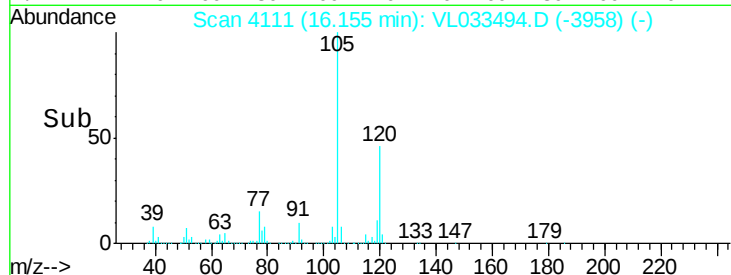
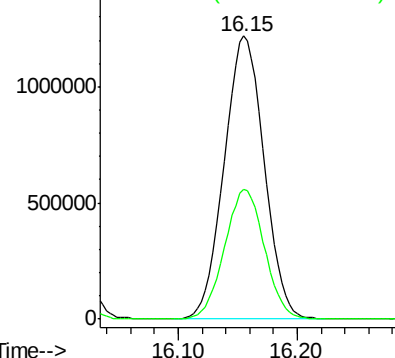
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.939 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion:105 Resp: 2885785

Ion Ratio Lower Upper

105 100

120 46.6 39.0 58.6

91 41.7 40.0 60.0

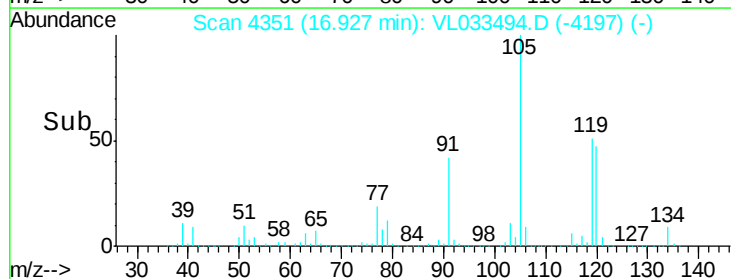
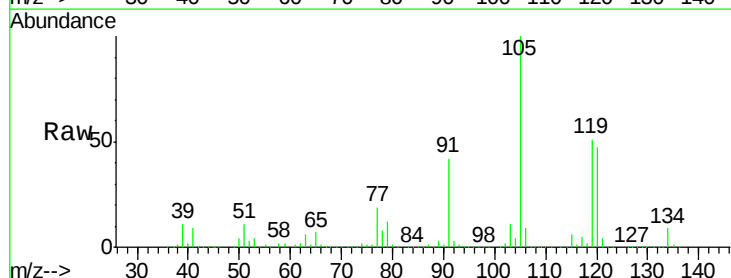
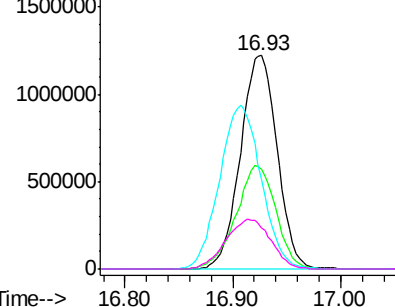
77 19.0 17.5 26.3

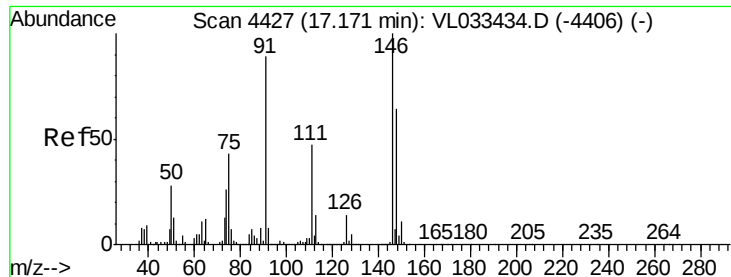
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 9.647 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

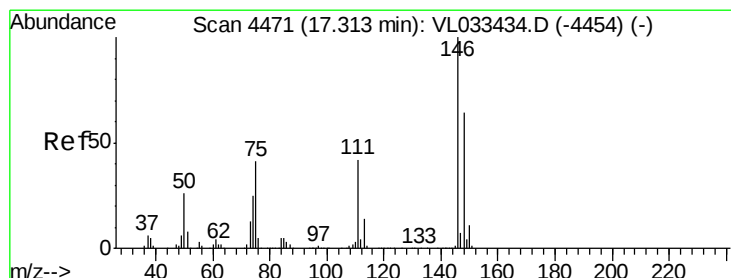
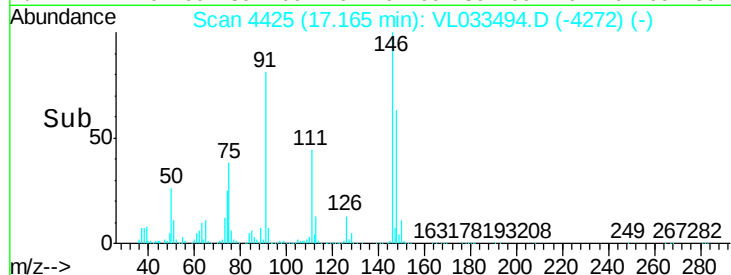
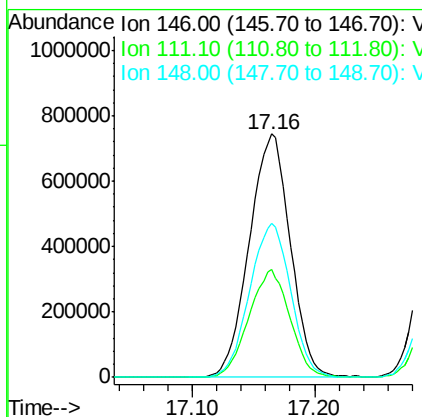
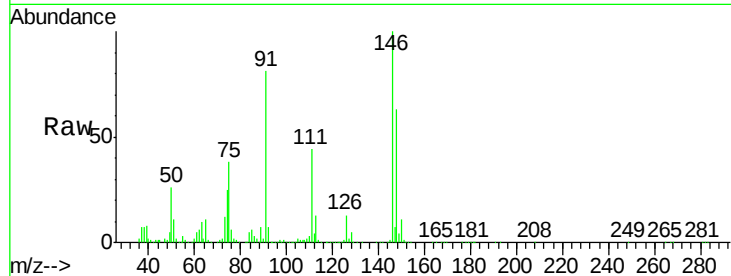
ClientSampleId :

VSTDCCC010EC

Tot Ion:	146	Resp:	1731161
Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.9	68.8
148	63.6	32.0	96.2

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#76

1,4-Dichlorobenzene

Concen: 9.932 ppbv

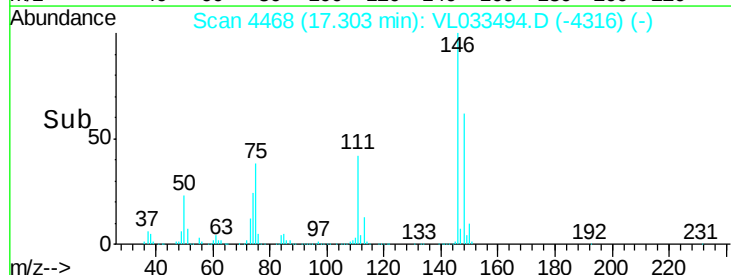
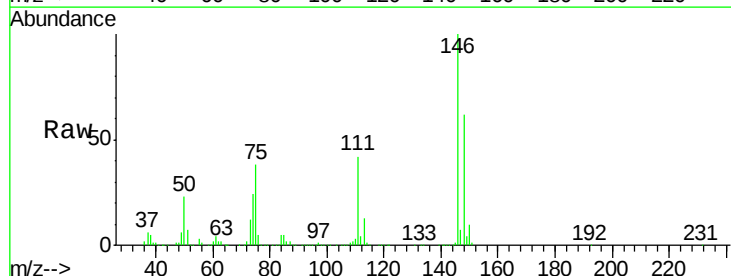
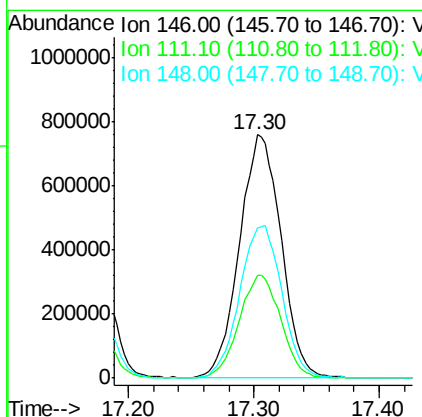
RT: 17.30 min Scan# 4468

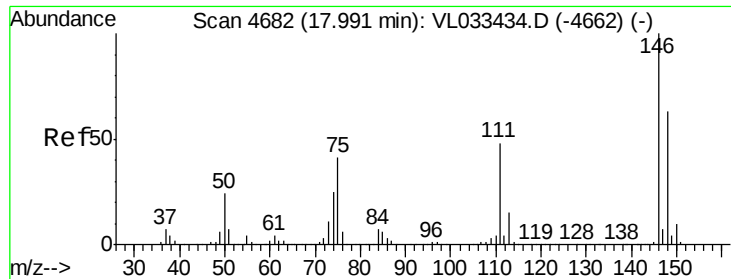
Delta R.T. -0.01 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Tgt Ion:	146	Resp:	1736634
Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.7	65.1
148	64.1	32.0	96.2





#77

1,2-Dichlorobenzene

Concen: 9.911 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1687449

Ion Ratio Lower Upper

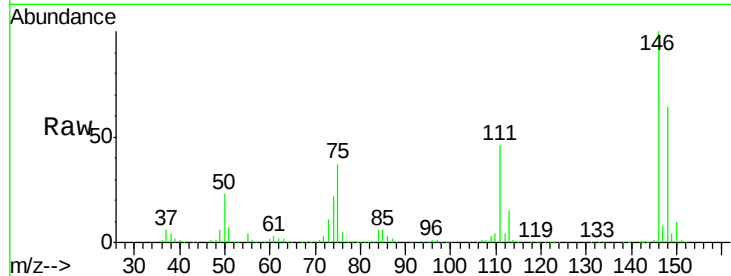
146 100

111 45.6 23.5 70.5

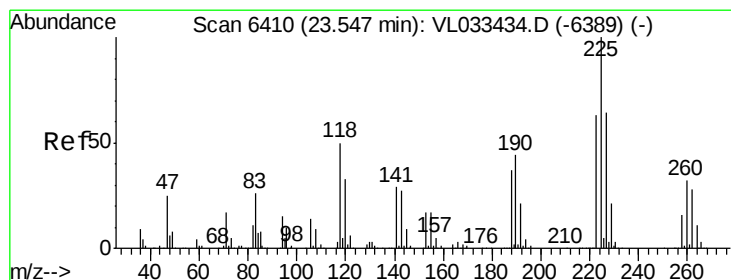
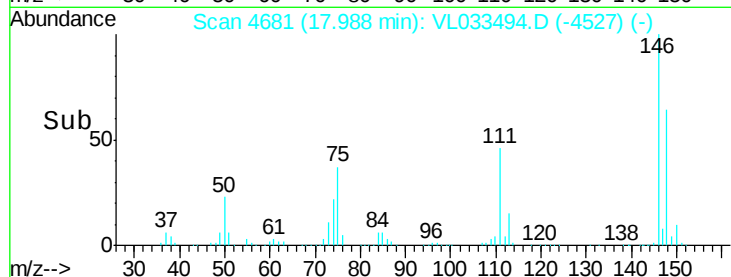
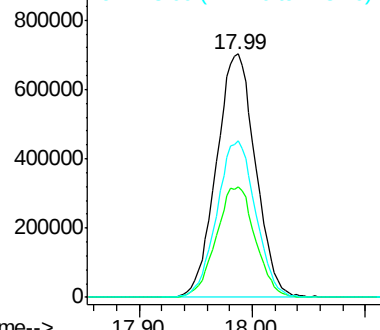
148 63.9 32.0 96.0

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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: 11.094 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.00 min

Lab File: VL033494.D

Acq: 28 Mar 2019 8:14

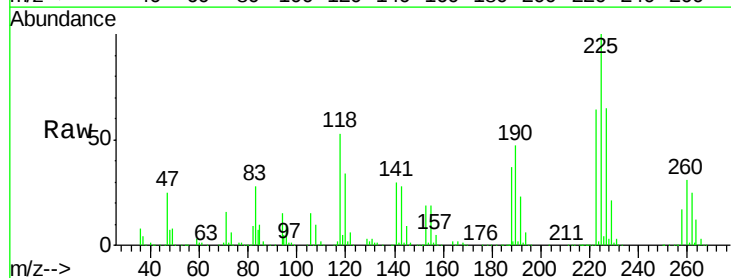
Tgt Ion:225 Resp: 1250423

Ion Ratio Lower Upper

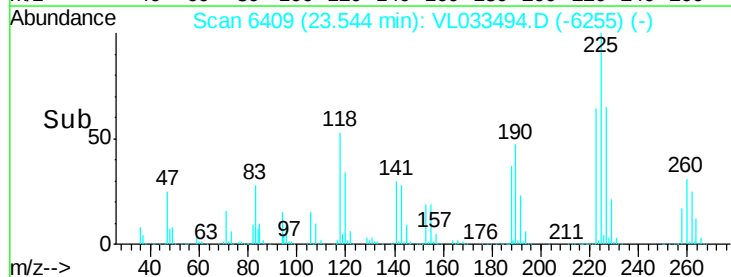
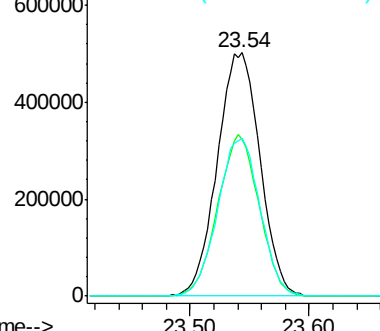
225 100

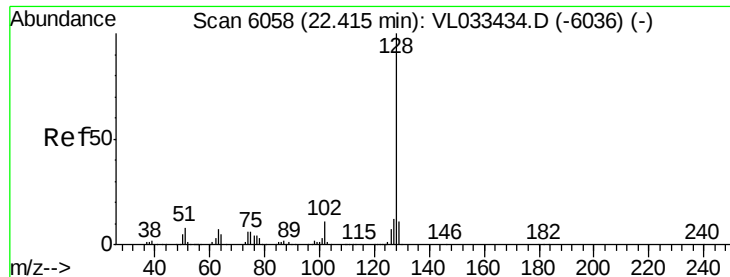
223 64.0 50.0 75.0

227 64.3 51.1 76.7



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





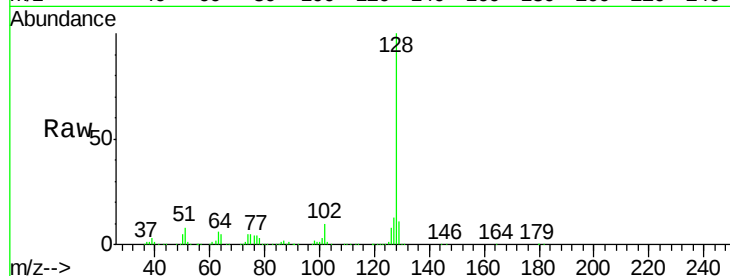
#79
Naphthalene
Concen: 11.918 ppbv
RT: 22.41 min Scan# 6056
Delta R.T. -0.01 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

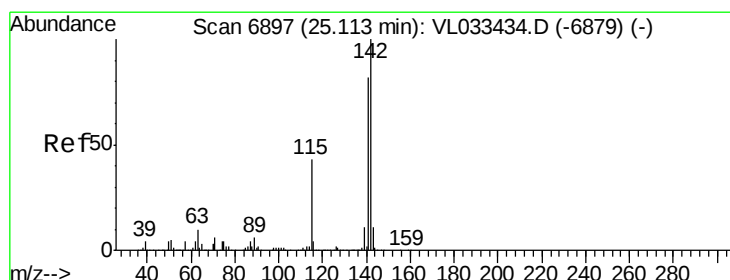
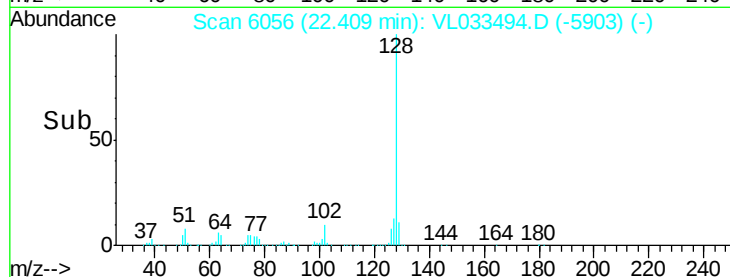
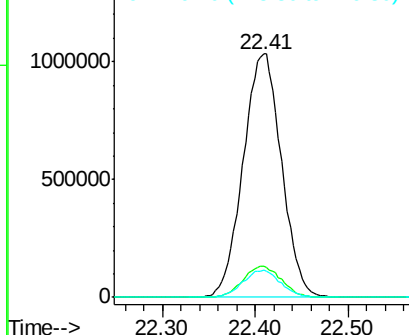
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.8	14.8
129	11.1	8.6	12.8

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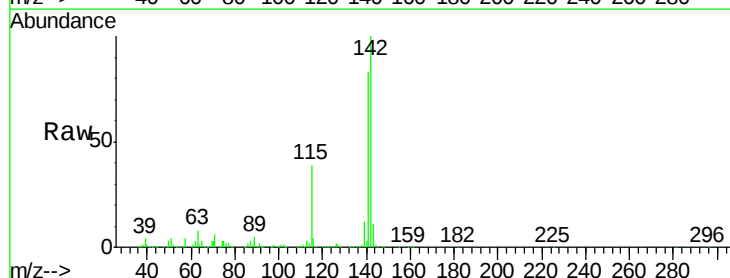


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

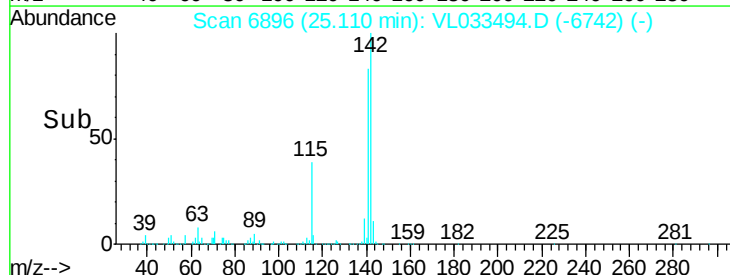
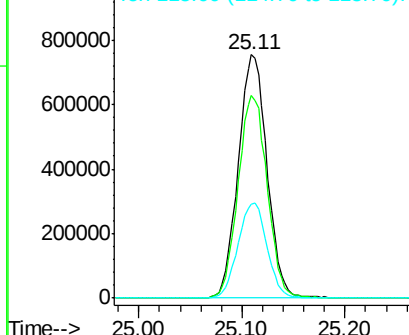


#80
Naphthalene, 2-methyl-
Concen: 17.590 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. -0.00 min
Lab File: VL033494.D
Acq: 28 Mar 2019 8:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.4	66.6	99.8
115	39.6	34.4	51.6



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: 11.041 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033494.D
 Acq: 28 Mar 2019 8:14

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.0	115.4
184	30.6	24.6	36.8

Manual Integrations
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