

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025610.D
 Acq On : 7 Jul 2015 14:34
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

sam
 7/8/2015 11:04:36 AM

Quant Time: Jul 07 15:14:12 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 2015
 QLast Update : Tue Jul 07 13:08:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.66	49	670083	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.34	114	1820170	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	2382739m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.30	95	2005648	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	1865697	12.01	ppbv	99
3) Chlorodifluoromethane	3.57	51	1163575	14.44	ppbv	98
4) Chloromethane	3.75	50	523130	12.49	ppbv	97
5) Vinyl Chloride	3.89	62	595333	12.76	ppbv	95
6) Bromomethane	4.14	94	485623	15.33	ppbv	98
7) Chloroethane	4.24	64	274945	14.22	ppbv	97
8) Dichlorotetrafluoroethane	3.81	85	1898112	15.11	ppbv	99
9) Propene	3.59	41	394469	11.72	ppbv	98
10) Heptane	9.36	43	1715407	14.32	ppbv	99
11) Trichlorofluoromethane	4.70	101	2933495	17.90	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.31	101	1690049	17.09	ppbv	99
13) Ethanol	4.33	45	46169	7.60	ppbv	98
14) Bromoethene	4.45	108	553178	15.67	ppbv	99
15) Acetone	4.60	43	1413498	14.32	ppbv	99
16) 1,3-Butadiene	3.97	39	613035	14.10	ppbv	98
17) tert-Butyl alcohol	5.12	59	1442847	17.09	ppbv	100
18) 1,1-Dichloroethene	5.09	96	652291	15.98	ppbv	99
19) Isopropyl Alcohol	4.74	45	566024	12.60	ppbv #	99
20) Methylene Chloride	5.15	84	593551	13.85	ppbv	94
21) Allyl Chloride	5.23	41	989686	15.32	ppbv	97
22) trans-1,2-Dichloroethene	5.77	96	666035	14.00	ppbv	100
23) Vinyl Acetate	5.99	43	2590602	14.97	ppbv	99
24) 1,1-Dichloroethane	5.92	63	1568137	13.92	ppbv	99
25) Ethyl Acetate	6.67	43	2498577	14.07	ppbv	99
26) Hexane	6.67	57	1151546	13.76	ppbv	98
27) Carbon Disulfide	5.39	76	1878964	16.26	ppbv	99
28) Methyl tert-Butyl Ether	5.95	73	2407342	15.46	ppbv	100
29) Chloroform	6.76	83	2239609	16.12	ppbv	99
30) Cyclohexane	8.29	84	1142517	14.98	ppbv	97
31) cis-1,2-Dichloroethene	6.53	61	1231805	15.37	ppbv	100
32) 1,1,1-Trichloroethane	7.60	97	2539855	16.19	ppbv	100
34) 2-Butanone	6.20	43	1496128	13.80	ppbv	100
35) Carbon Tetrachloride	8.17	117	2752986	16.73	ppbv	99
36) Benzene	8.03	78	2471185	13.75	ppbv	99
37) 1,2-Dichloroethane	7.38	62	2091387	16.73	ppbv	99
38) Trichloroethene	9.07	130	1147616	14.78	ppbv	99
39) 1,2-Dichloropropane	8.84	63	878366	13.16	ppbv	95
40) 1,4-Dioxane	9.12	88	130339	8.80	ppbv #	1
41) Tetrahydrofuran	7.12	42	777348	13.35	ppbv	99
42) Bromodichloromethane	9.04	83	2600441	16.60	ppbv	99
43) Methyl Methacrylate	9.27	69	1058380	15.84	ppbv	99

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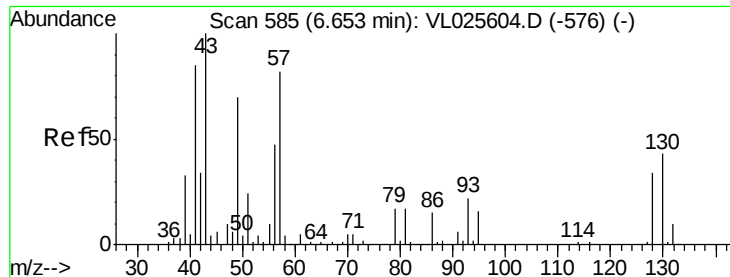
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.09	57	4170625	13.45	ppbv	98
45) t-1,3-Dichloropropene	10.66	75	1924776	18.41	ppbv	98
46) cis-1,3-Dichloropropene	10.03	75	2045675	16.84	ppbv	99
47) 1,1,2-Trichloroethane	10.89	97	1266136	15.15	ppbv	99
48) Dibromochloromethane	11.81	129	2396388	17.82	ppbv	99
49) Bromoform	14.83	173	2065112	19.18	ppbv	99
50) 4-Methyl-2-Pentanone	10.09	43	2325495	15.83	ppbv	99
51) 2-Hexanone	11.62	43	2245854	17.08	ppbv	99
52) Tetrachloroethene	12.80	164	1301047	15.80	ppbv	99
53) Toluene	11.24	91	3696523	15.61	ppbv	100
54) 1,2-Dibromoethane	12.15	107	2072402	16.20	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.80	131	1767742	15.62	ppbv	88
57) Chlorobenzene	13.83	112	3281291	14.05	ppbv	99
58) Ethyl Benzene	14.43	91	5780660	15.24	ppbv	98
59) m/p-Xylene	14.73	91	9503758	29.98	ppbv	100
60) o-Xylene	15.51	91	5093124	15.13	ppbv	100
61) Styrene	15.32	104	2225150	17.33	ppbv	99
62) Isopropylbenzene	16.55	105	6709356	15.12	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.50	83	3160820	13.24	ppbv	100
64) n-propylbenzene	17.54	120	1827624	15.55	ppbv	93
65) tert-Butylbenzene	18.83	119	6331011	15.34	ppbv	99
66) Benzyl Chloride	19.11	91	2815202	19.94	ppbv	100
67) sec-Butylbenzene	19.43	105	8645652	14.90	ppbv	98
69) p-Isopropyltoluene	19.80	119	7397326	15.68	ppbv	98
70) n-Butylbenzene	20.77	91	7300780	15.90	ppbv	99
71) 2-Chlorotoluene	17.44	91	5135410	15.55	ppbv	100
72) 4-Ethyltoluene	17.83	105	5878379	15.95	ppbv	99
73) 1,3,5-Trimethylbenzene	18.00	105	5634729	15.88	ppbv	97
74) 1,2,4-Trimethylbenzene	18.85	105	5859778	15.31	ppbv	97
75) 1,3-Dichlorobenzene	19.13	146	3719167	15.26	ppbv	99
76) 1,4-Dichlorobenzene	19.28	146	3859092	15.81	ppbv	100
77) 1,2-Dichlorobenzene	20.04	146	3804162	15.71	ppbv	99
78) Hexachloro-1,3-Butadiene	24.67	225	2207047	17.77	ppbv	99
79) Naphthalene	23.94	128	5776431	18.43	ppbv	99
80) Naphthalene, 2-methyl-	26.04	142	1674829	20.83	ppbv	99
81) 1,2,4-Trichlorobenzene	23.74	180	2742218	18.79	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.66 min Scan# 586

Delta R.T. 0.01 min

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Instrument :

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ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 670083

Ion Ratio Lower Upper

49 100

128 49.8 25.4 76.0

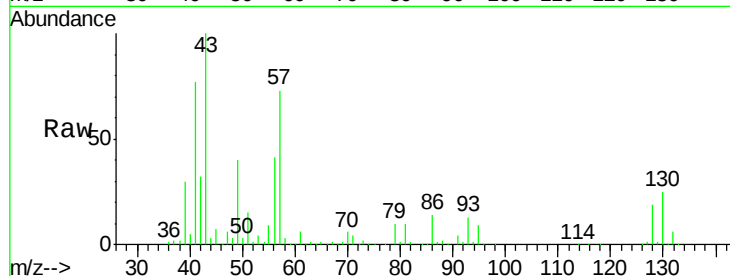
130 64.6 31.9 95.9

Manual Integrations

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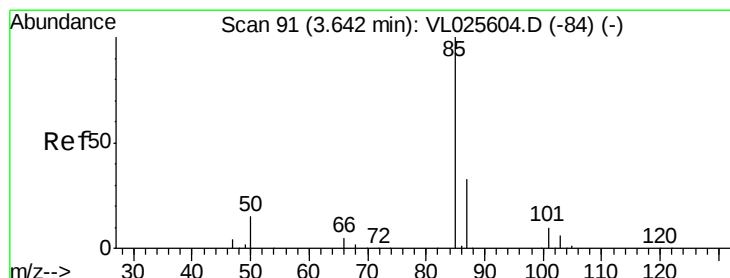
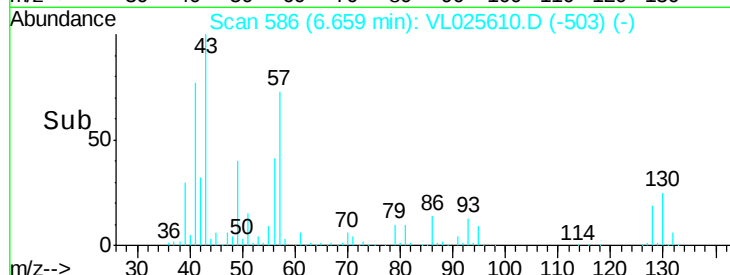
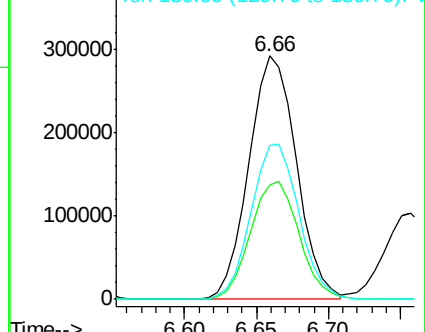
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 12.01 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL025610.D

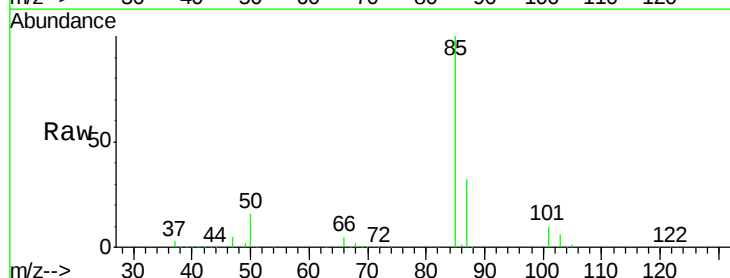
Acq: 7 Jul 2015 14:34

Tgt Ion: 85 Resp: 1865697

Ion Ratio Lower Upper

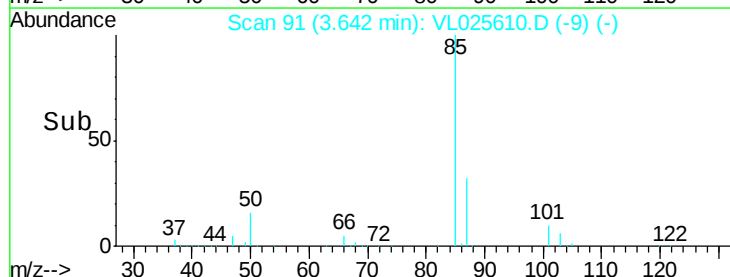
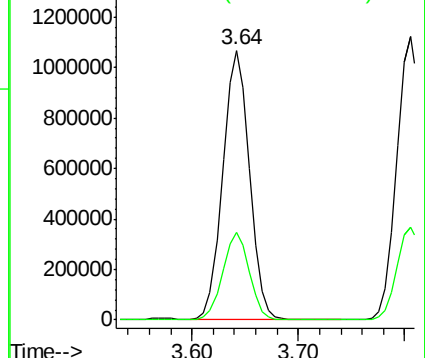
85 100

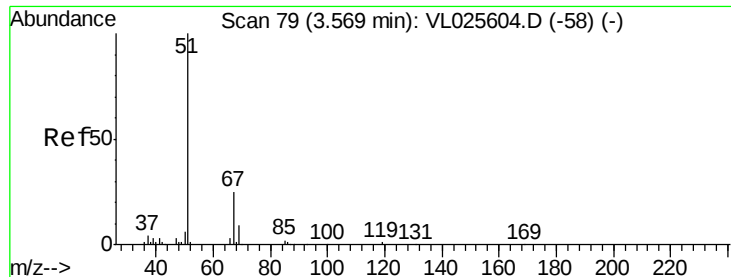
87 32.5 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 14.44 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tot Ion: 51 Resp: 1163575

Ion Ratio Lower Upper

51 100

67 25.2 19.5 29.3

Instrument :

MSVOA_L

ClientSampleId :

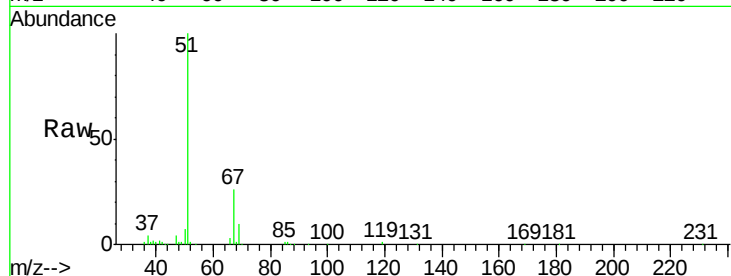
VSTDIC015

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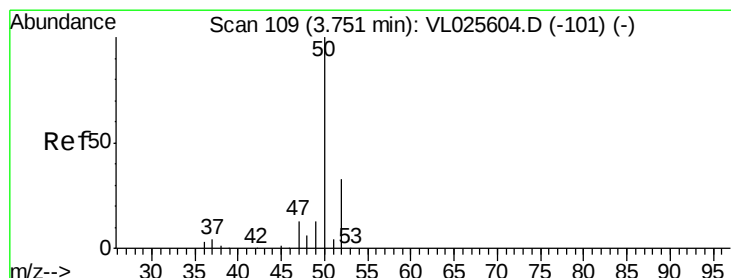
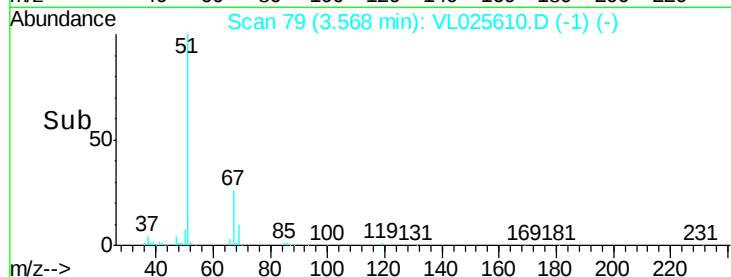
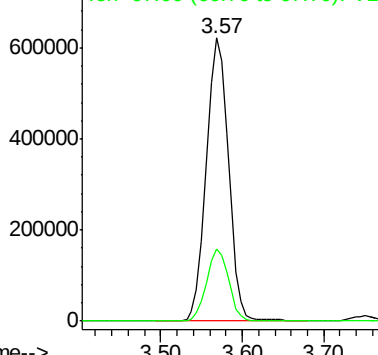
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 12.49 ppbv

RT: 3.75 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL025610.D

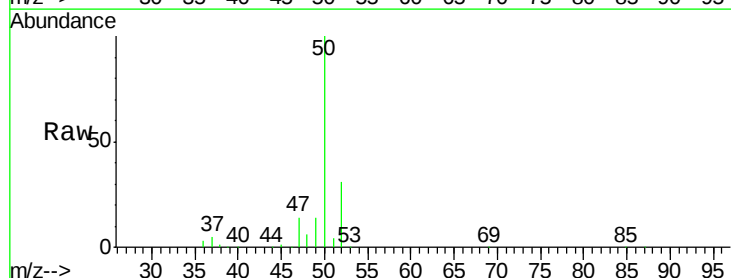
Acq: 7 Jul 2015 14:34

Tgt Ion: 50 Resp: 523130

Ion Ratio Lower Upper

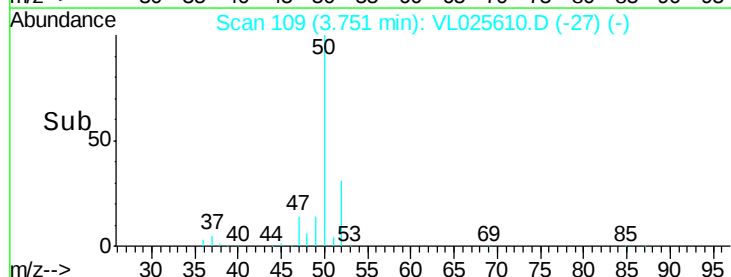
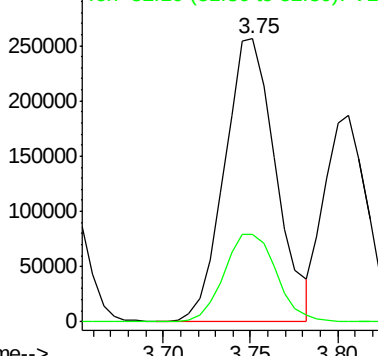
50 100

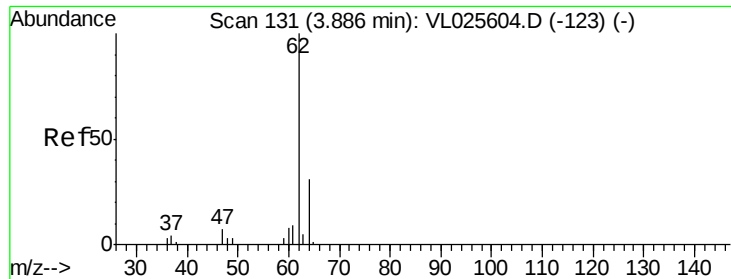
52 30.8 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.76 ppbv

RT: 3.89 min Scan# 131

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 595333

Ion Ratio Lower Upper

62 100

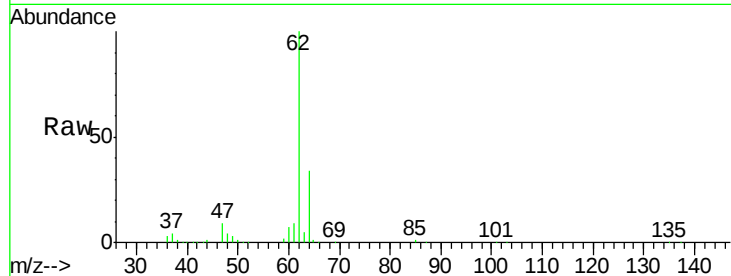
64 34.0 25.0 37.6

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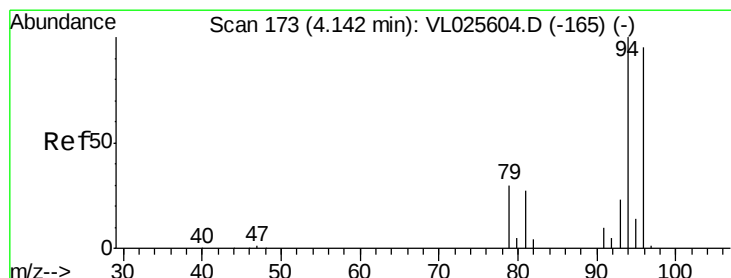
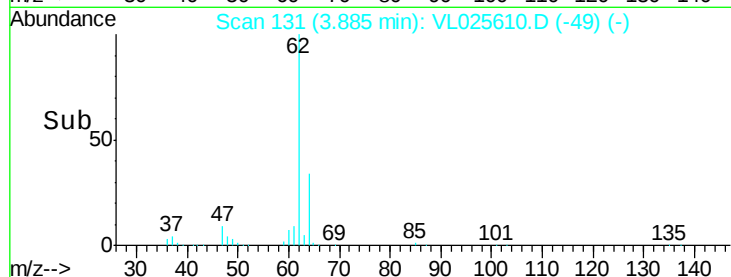
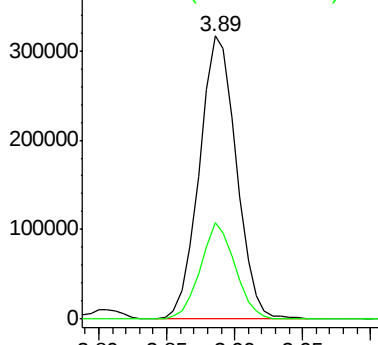
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 15.33 ppbv

RT: 4.14 min Scan# 173

Delta R.T. -0.00 min

Lab File: VL025610.D

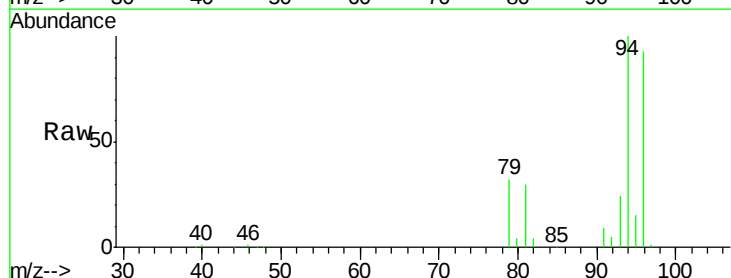
Acq: 7 Jul 2015 14:34

Tgt Ion: 94 Resp: 485623

Ion Ratio Lower Upper

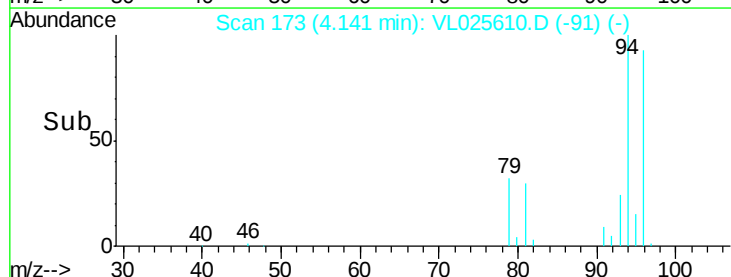
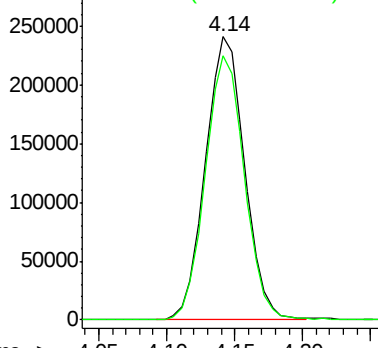
94 100

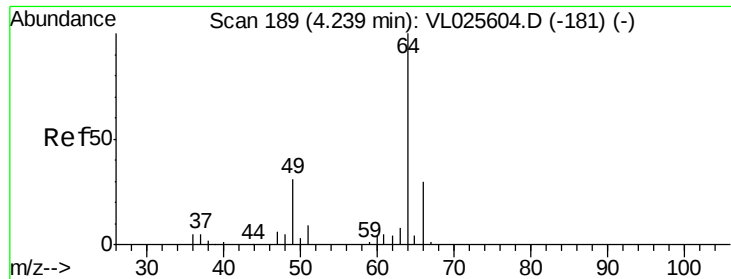
96 93.2 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 14.22 ppbv

RT: 4.24 min Scan# 189

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

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ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 274945

Ion Ratio Lower Upper

64 100

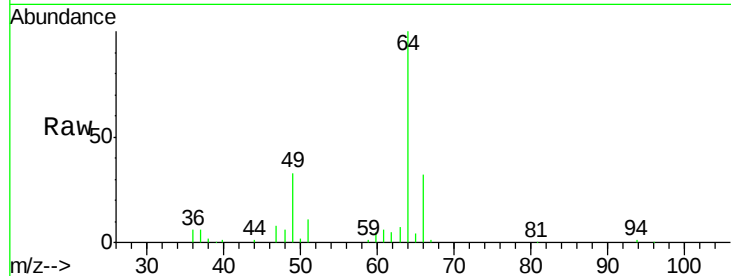
66 31.7 23.8 35.8

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

4.24

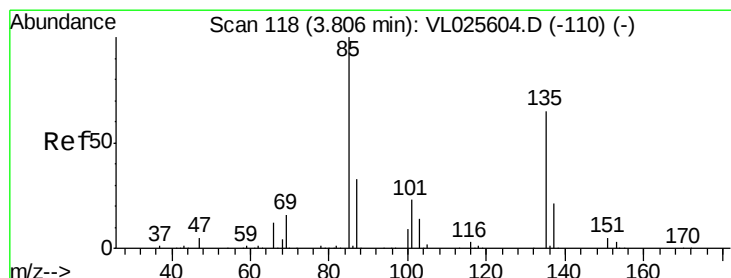
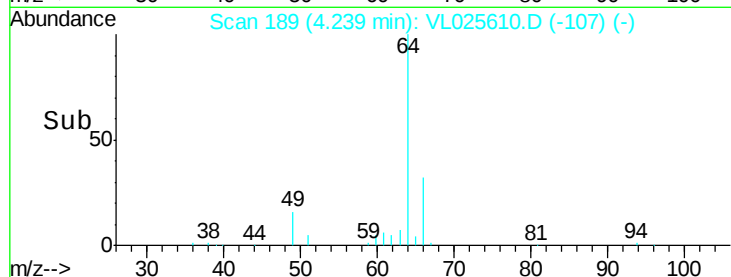
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 15.11 ppbv

RT: 3.81 min Scan# 118

Delta R.T. -0.00 min

Lab File: VL025610.D

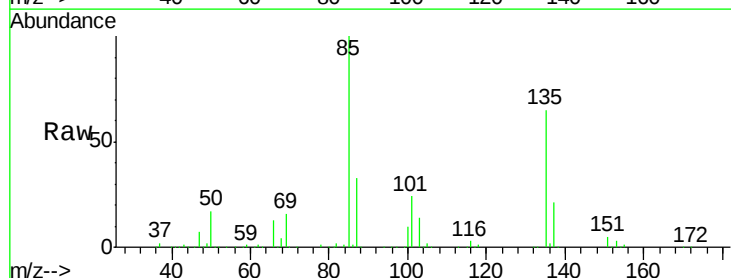
Acq: 7 Jul 2015 14:34

Tgt Ion: 85 Resp: 1898112

Ion Ratio Lower Upper

85 100

135 65.8 52.2 78.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.81

1200000

1000000

800000

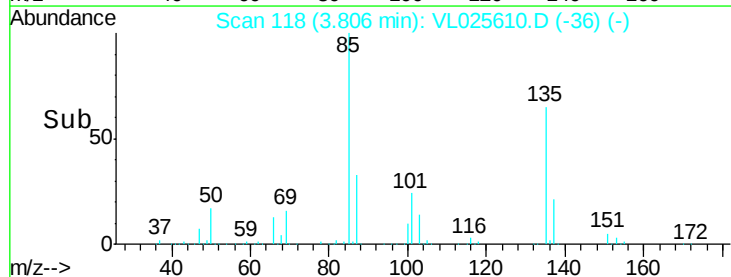
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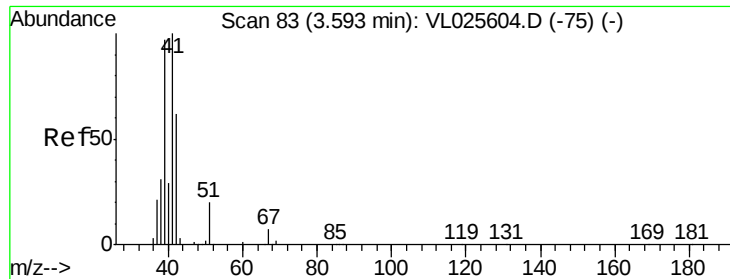
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200000

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Time-->





#9

Propene

Concen: 11.72 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 394469

Ion Ratio Lower Upper

41 100

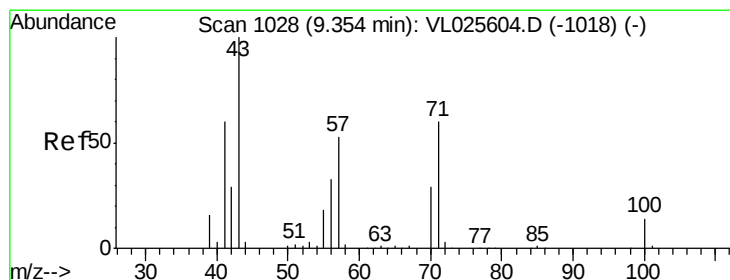
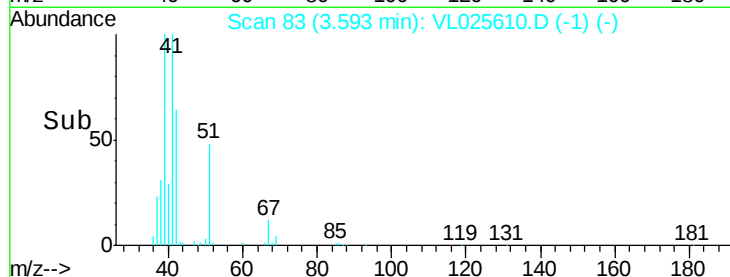
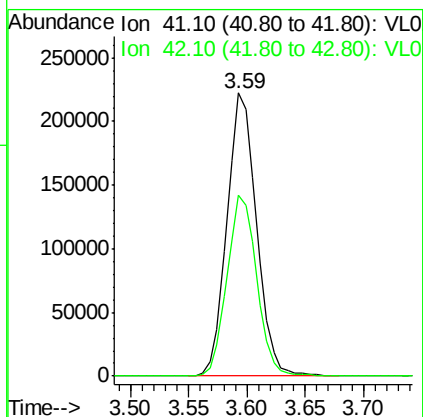
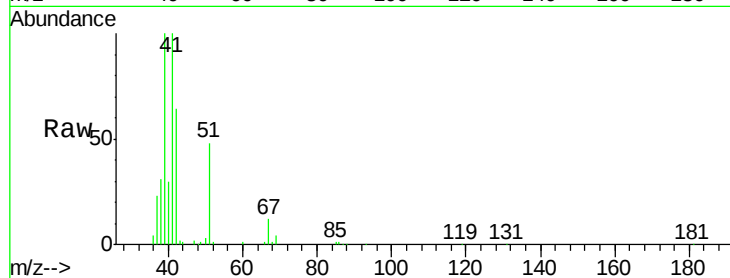
42 64.1 52.4 78.6

Manual Integrations

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#10

Heptane

Concen: 14.32 ppbv

RT: 9.36 min Scan# 1029

Delta R.T. 0.01 min

Lab File: VL025610.D

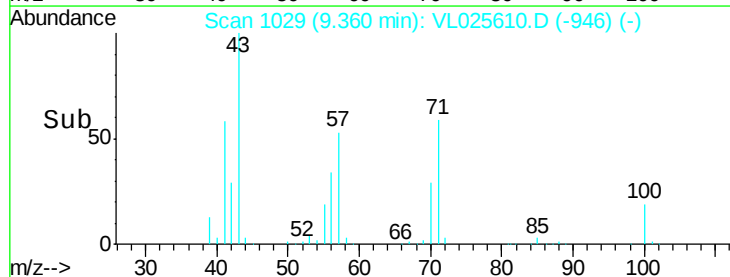
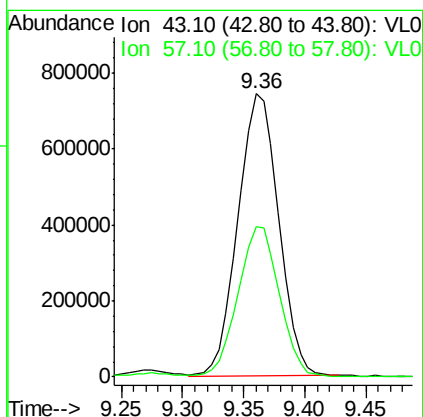
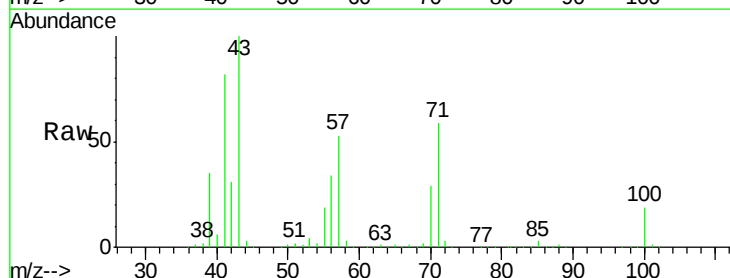
Acq: 7 Jul 2015 14:34

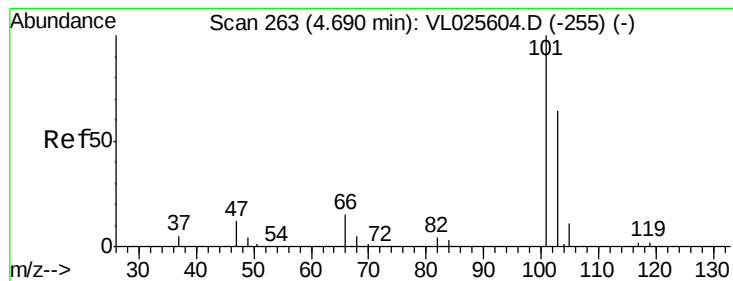
Tgt Ion: 43 Resp: 1715407

Ion Ratio Lower Upper

43 100

57 54.0 42.6 64.0





#11

Trichlorofluoromethane

Concen: 17.90 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tot Ion:101 Resp: 2933495

Ion Ratio Lower Upper

101 100

103 65.7 51.4 77.2

Instrument :

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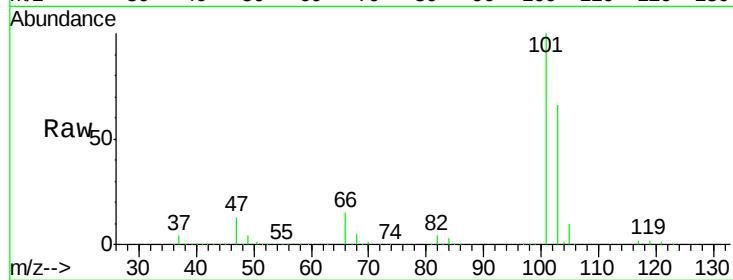
VSTDIC015

Manual Integrations

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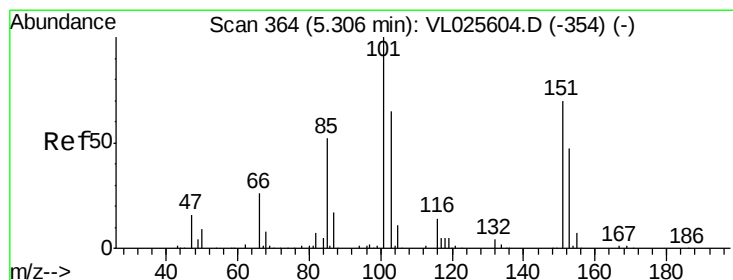
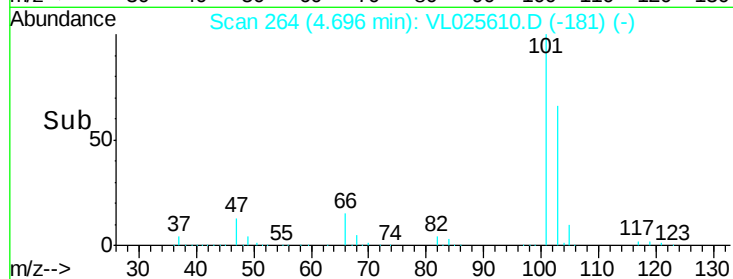
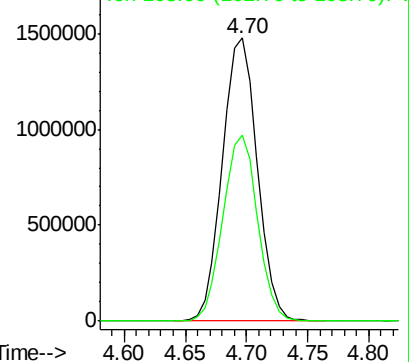
sam

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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: 17.09 ppbv

RT: 5.31 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL025610.D

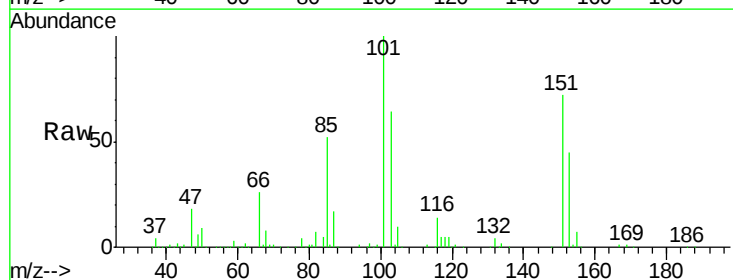
Acq: 7 Jul 2015 14:34

Tgt Ion:101 Resp: 1690049

Ion Ratio Lower Upper

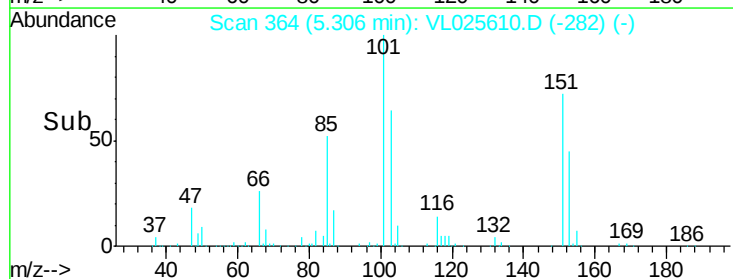
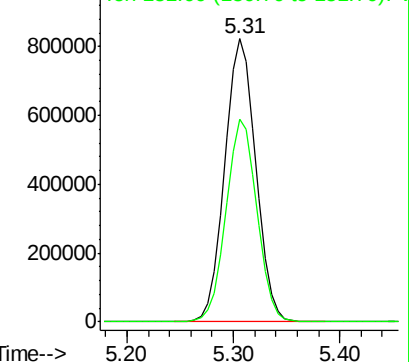
101 100

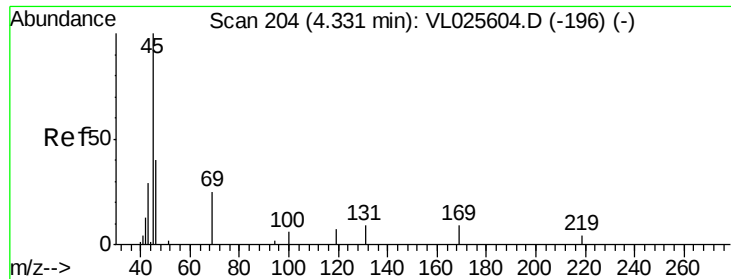
151 71.5 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





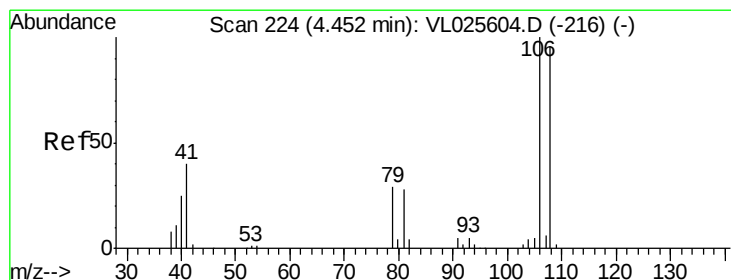
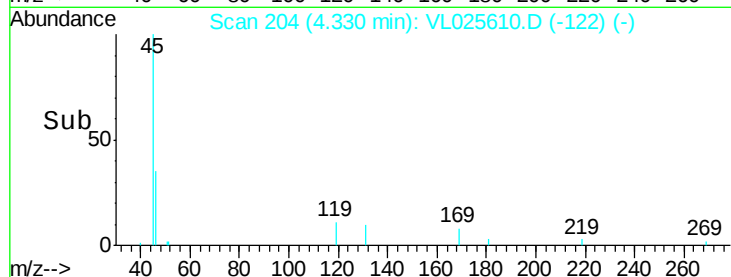
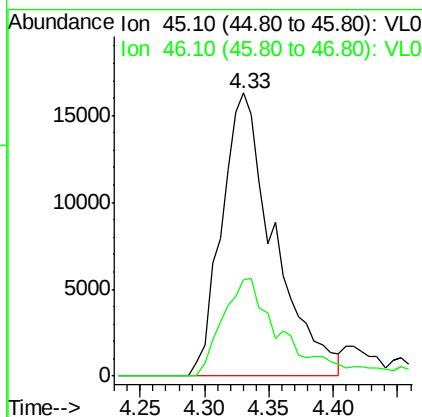
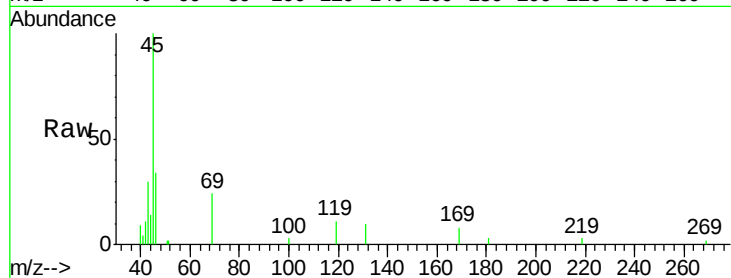
#13
Ethanol
Concen: 7.60 ppbv
RT: 4.33 min Scan# 204
Delta R.T. -0.00 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 46169
Ion Ratio Lower Upper
45 100
46 39.1 16.0 64.0

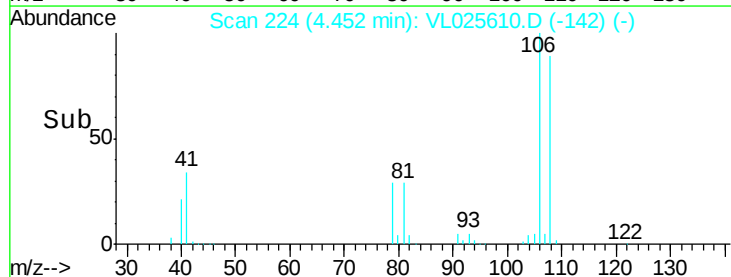
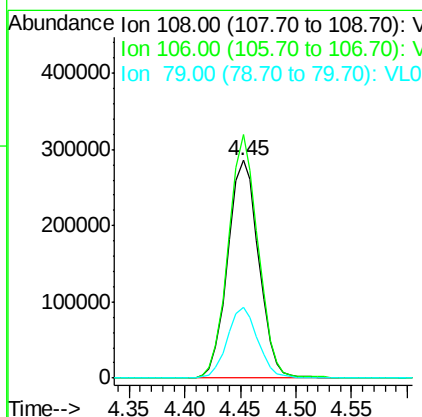
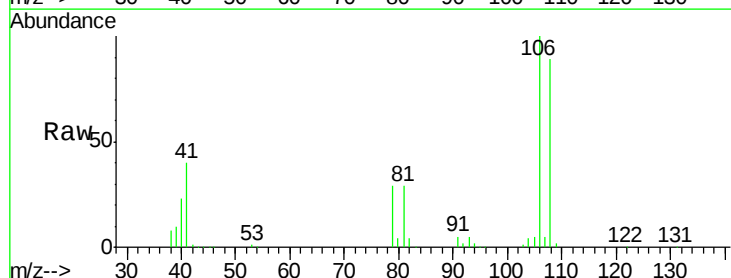
Manual Integrations
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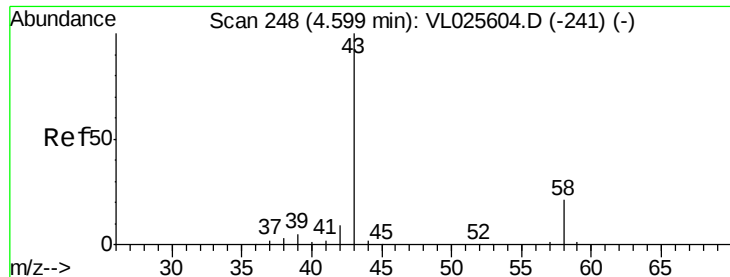
sam
7/8/2015 11:04:36 AM



#14
Bromoethene
Concen: 15.67 ppbv
RT: 4.45 min Scan# 224
Delta R.T. -0.00 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion:108 Resp: 553178
Ion Ratio Lower Upper
108 100
106 107.2 85.7 128.5
79 32.0 24.6 36.8





#15

Acetone

Concen: 14.32 ppbv

RT: 4.60 min Scan# 248

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tot Ion: 43 Resp: 1413498

Ion Ratio Lower Upper

43 100

58 21.0 17.2 25.8

Instrument :

MSVOA_L

ClientSampleId :

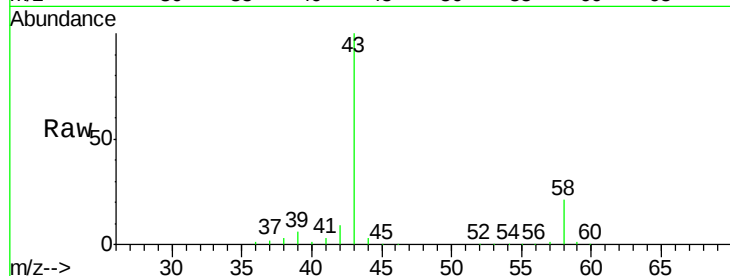
VSTDIC015

Manual Integrations

APPROVED

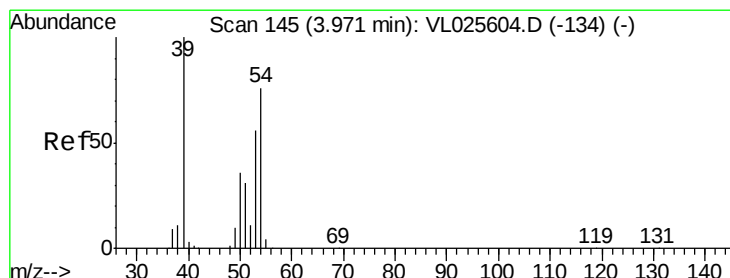
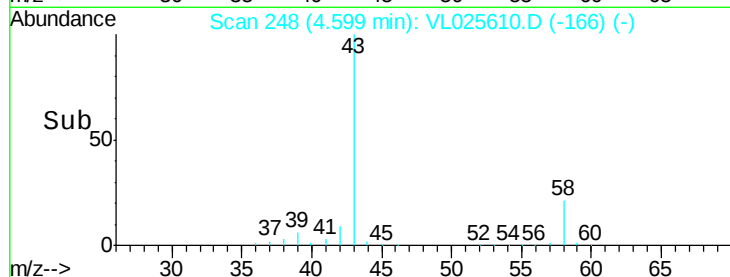
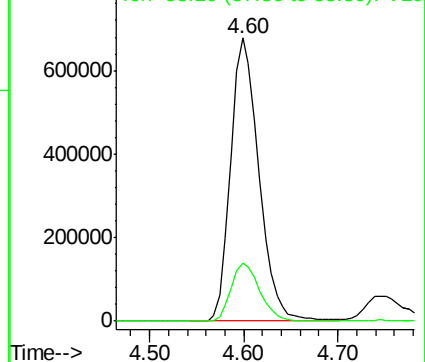
sam

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 14.10 ppbv

RT: 3.97 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL025610.D

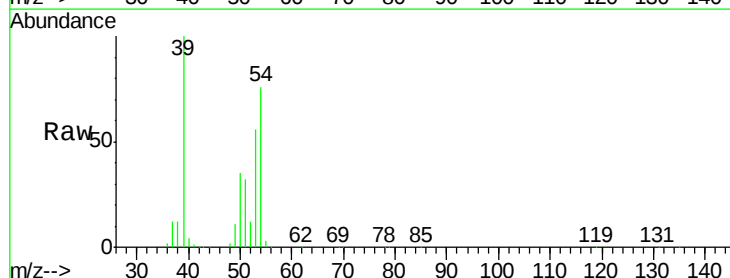
Acq: 7 Jul 2015 14:34

Tgt Ion: 39 Resp: 613035

Ion Ratio Lower Upper

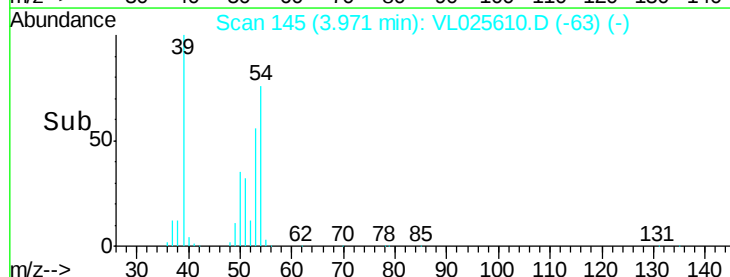
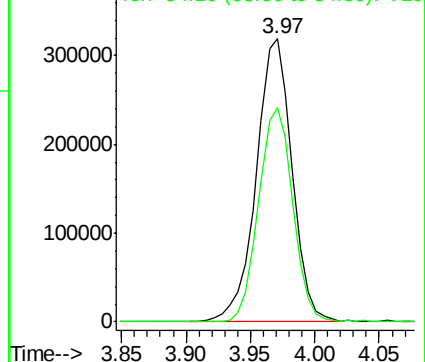
39 100

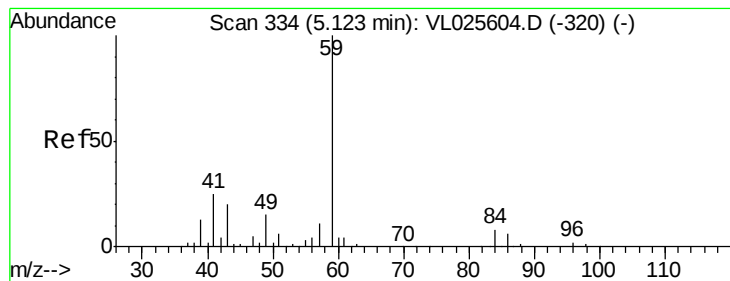
54 72.4 59.3 88.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

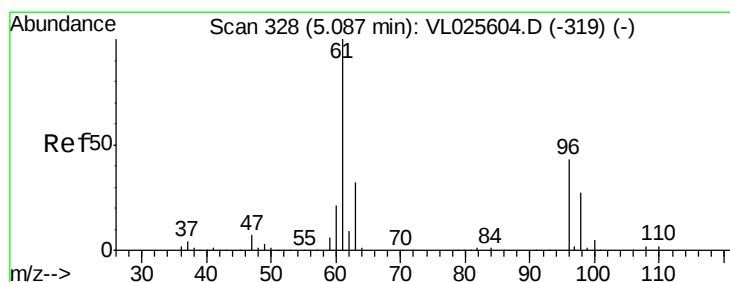
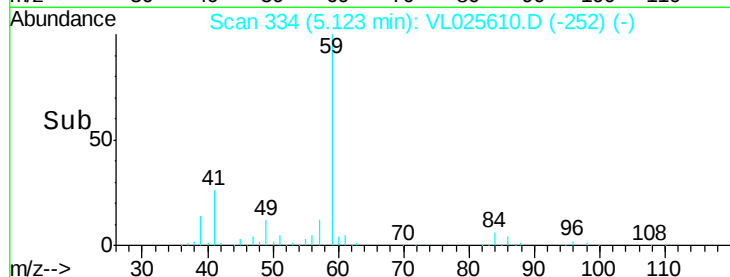
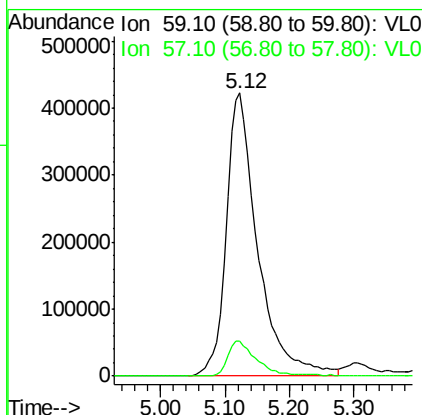
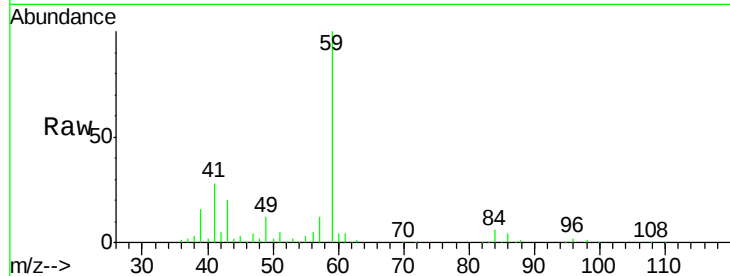
tert-Butyl alcohol
Concen: 17.09 ppbv
RT: 5.12 min Scan# 334
Delta R.T. -0.00 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1442847
Ion Ratio Lower Upper
59 100
57 11.9 9.4 14.2

Manual Integrations
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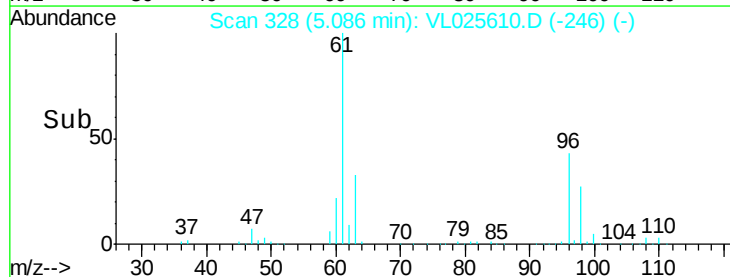
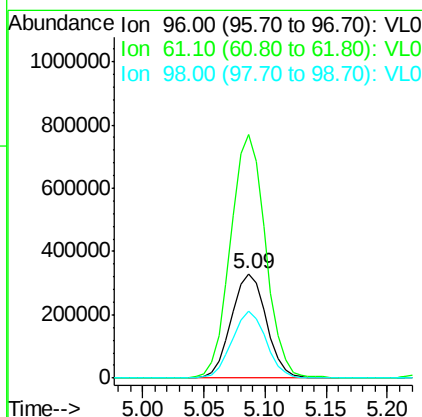
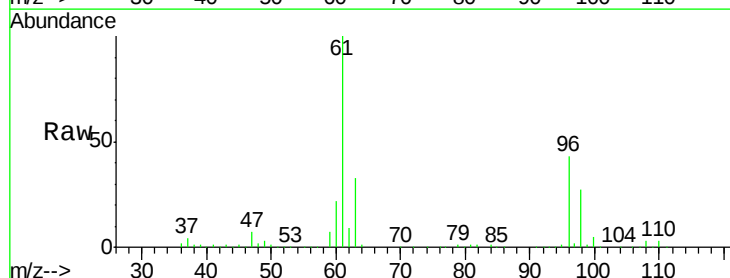
sam
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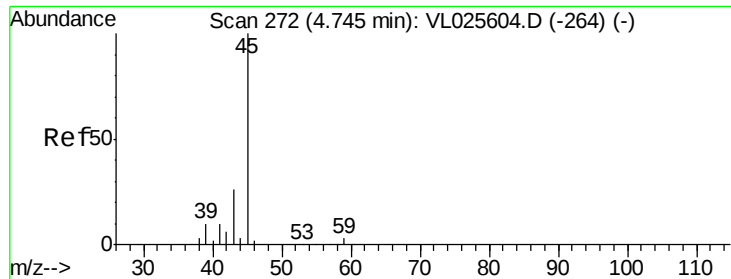


#18

1,1-Dichloroethene
Concen: 15.98 ppbv
RT: 5.09 min Scan# 328
Delta R.T. -0.00 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion: 96 Resp: 652291
Ion Ratio Lower Upper
96 100
61 232.5 184.1 276.1
98 63.5 50.0 75.0





#19

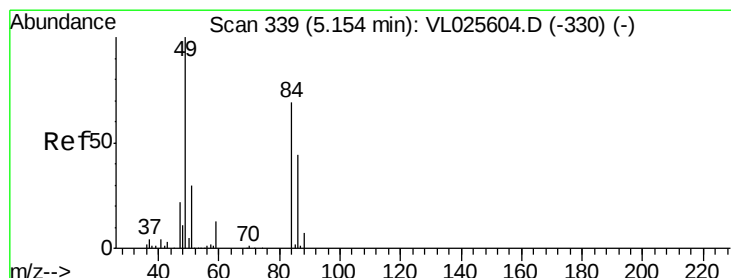
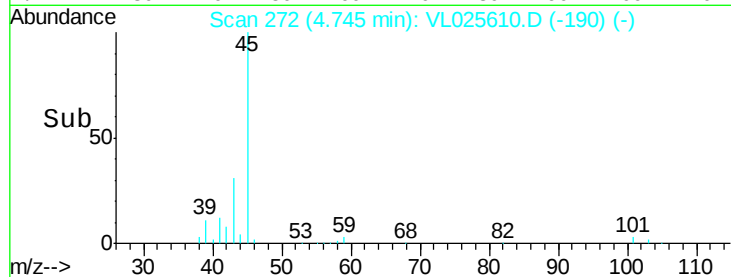
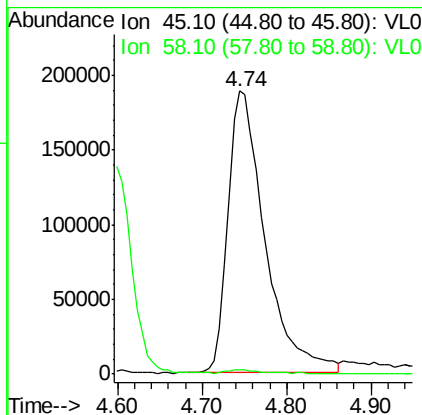
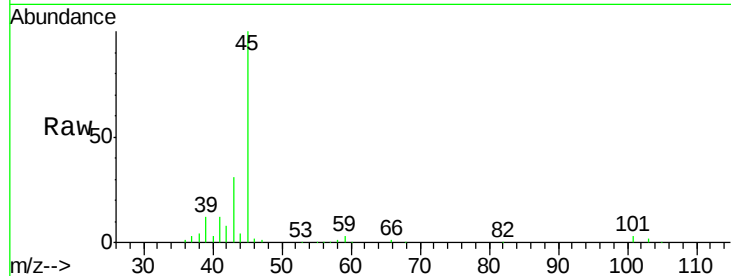
Isopropyl Alcohol
 Concen: 12.60 ppbv
 RT: 4.74 min Scan# 272
 Delta R.T. -0.00 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	45	58	Ratio	Lower	Upper
45	100				
58	2.0		1.1	1.7	

Manual Integrations
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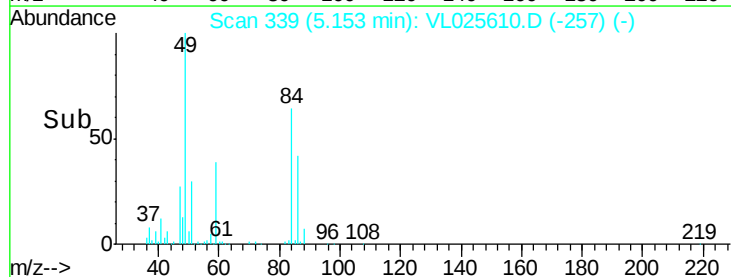
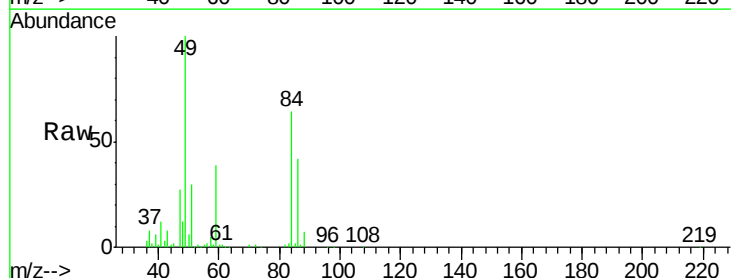
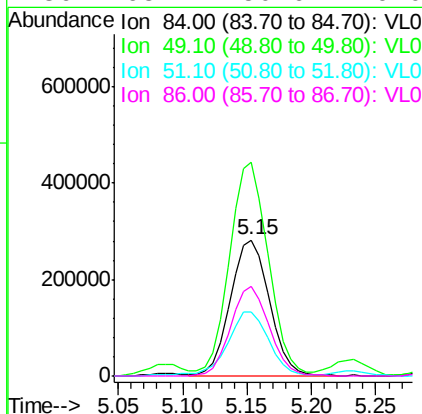
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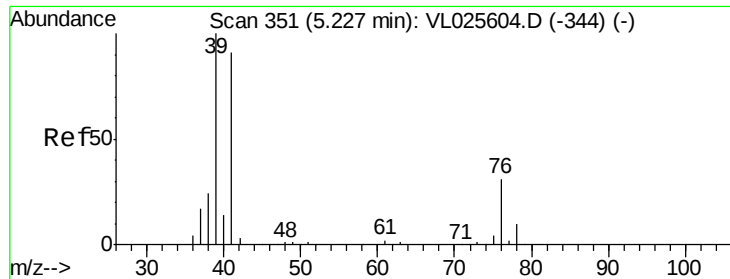


#20

Methylene Chloride
 Concen: 13.85 ppbv
 RT: 5.15 min Scan# 339
 Delta R.T. -0.00 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion	84	49	51	86	Resp	Lower	Upper
84	100				593551		
49	153.4				115.2	172.8	
51	45.3				35.0	52.6	
86	65.7				50.6	76.0	





#21

Allvl Chloride

Concen: 15.32 ppbv

RT: 5.23 min Scan# 351

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

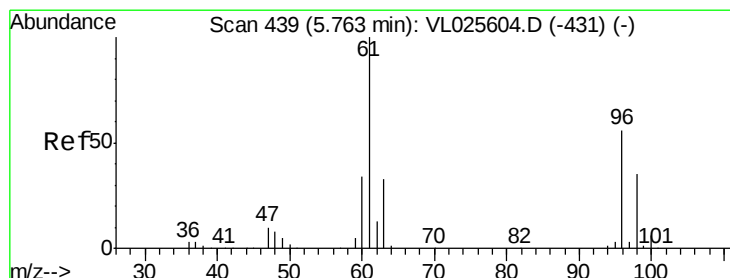
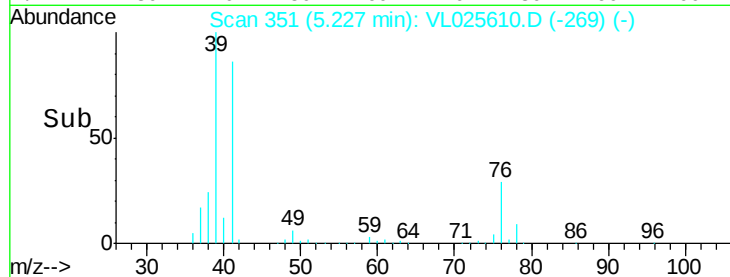
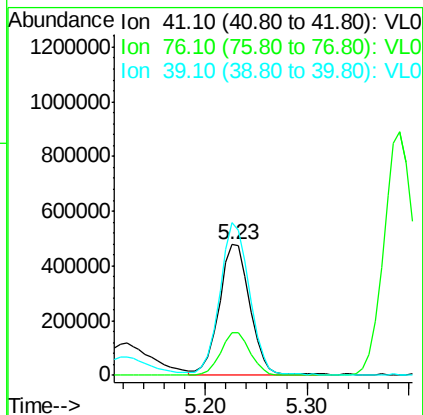
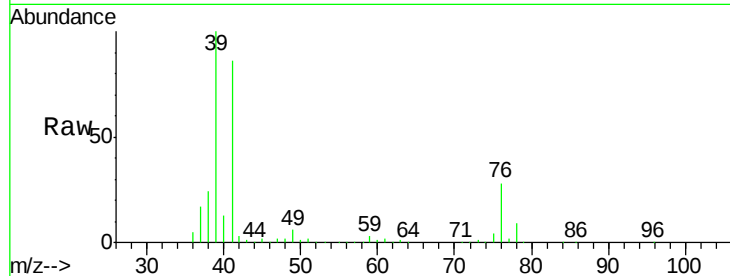
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	989686
Ion	Ratio	Lower	Upper
41	100		
76	32.0	26.6	40.0
39	113.7	88.2	132.4

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 14.00 ppbv

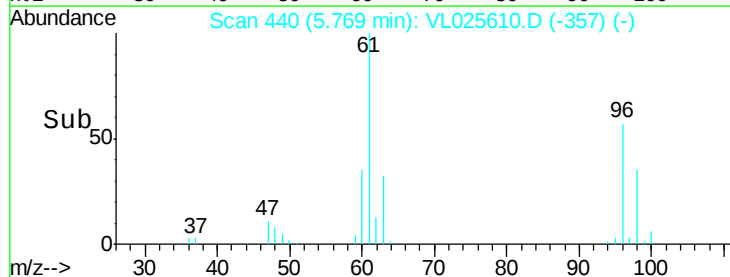
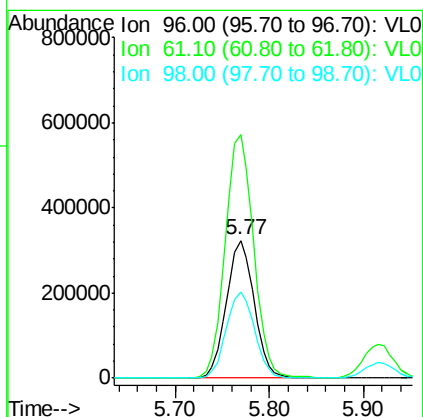
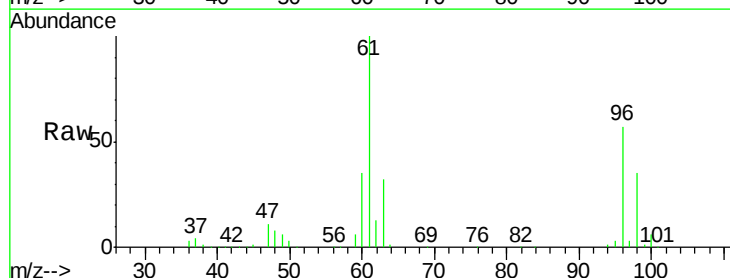
RT: 5.77 min Scan# 440

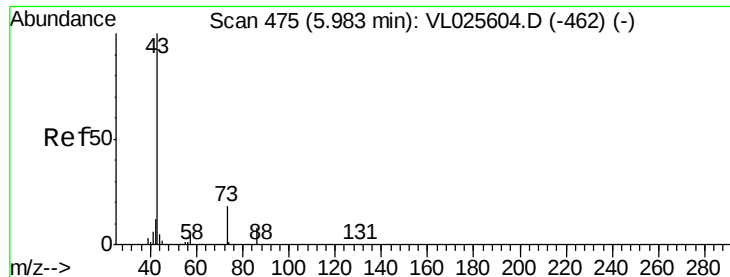
Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion:	96	Resp:	666035
Ion	Ratio	Lower	Upper
96	100		
61	176.9	141.8	212.6
98	62.2	49.0	73.6





#23

Vinyl Acetate

Concen: 14.97 ppbv

RT: 5.99 min Scan# 476

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tot Ion: 43 Resp: 2590602

Ion Ratio Lower Upper

43 100

86 8.9 6.7 10.1

42 12.8 9.8 14.6

44 4.8 4.1 6.1

Instrument :

MSVOA_L

ClientSampleId :

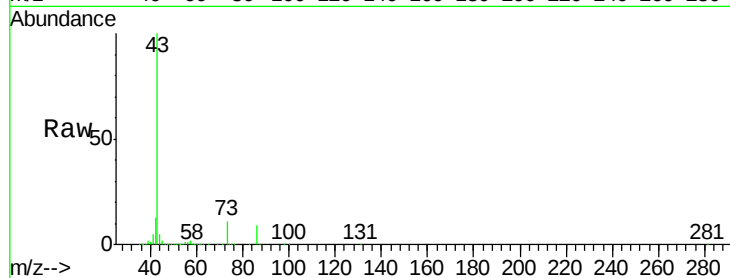
VSTDIC015

Manual Integrations

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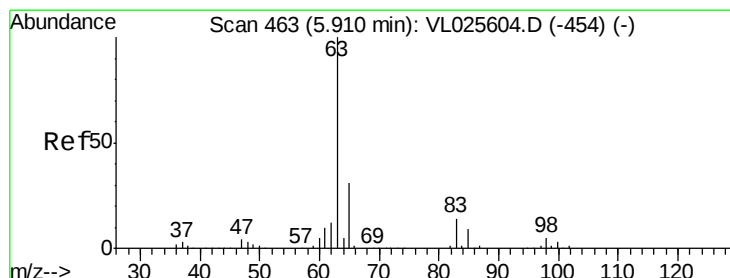
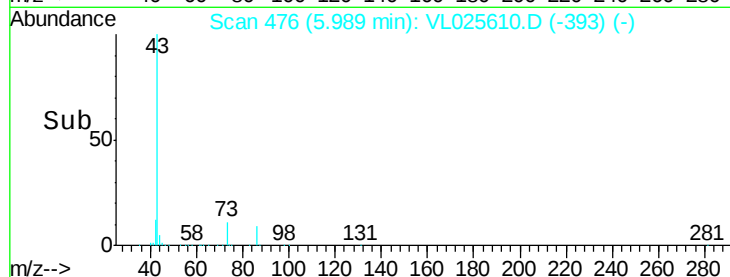
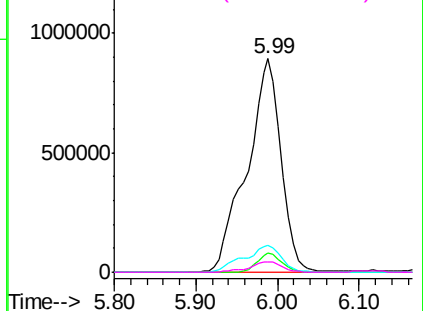


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.92 ppbv

RT: 5.92 min Scan# 464

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

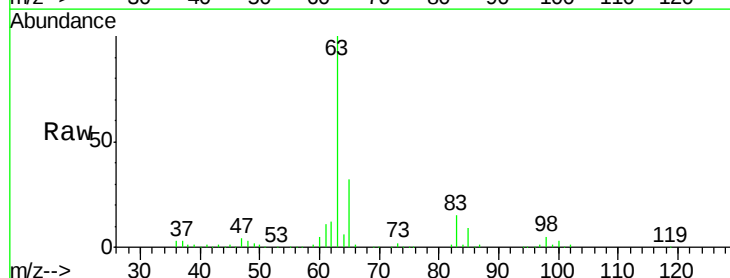
Tgt Ion: 63 Resp: 1568137

Ion Ratio Lower Upper

63 100

98 5.0 2.6 8.0

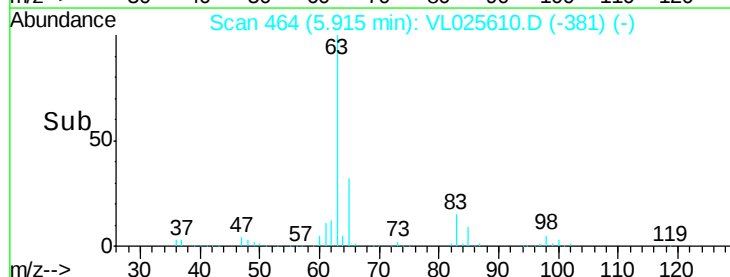
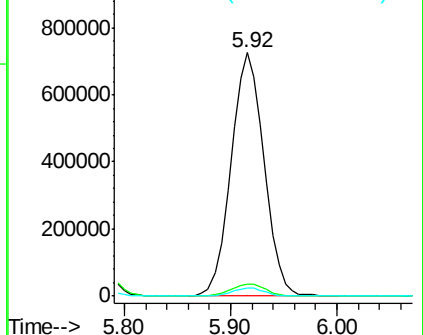
100 3.3 1.6 4.7

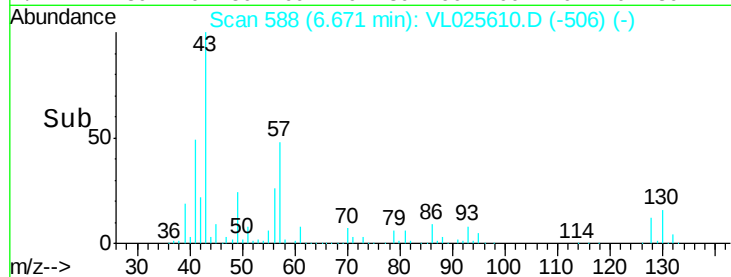
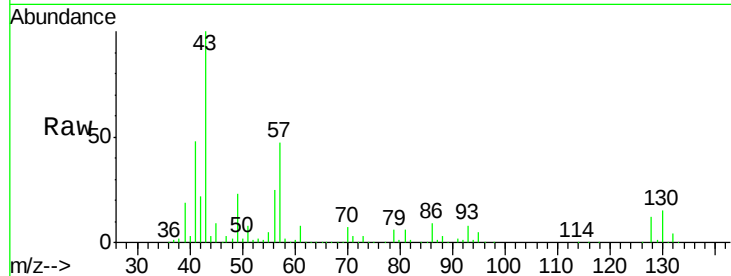
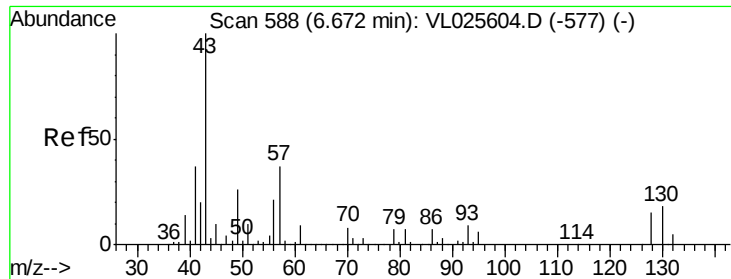


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 14.07 ppbv

RT: 6.67 min Scan# 588

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.2	7.5	11.3
61	8.4	6.6	10.0
70	7.3	6.0	9.0

Instrument :

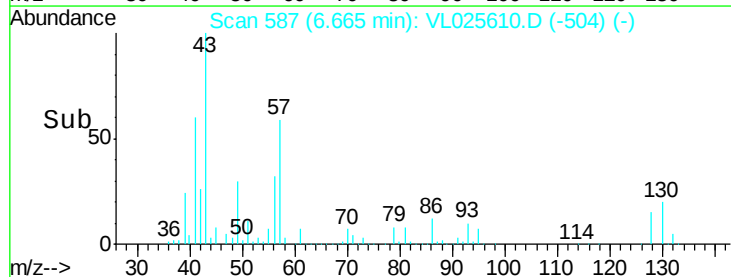
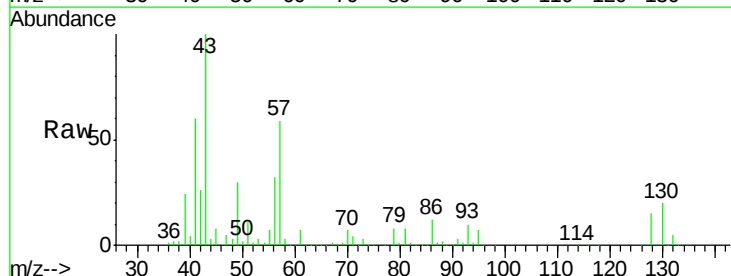
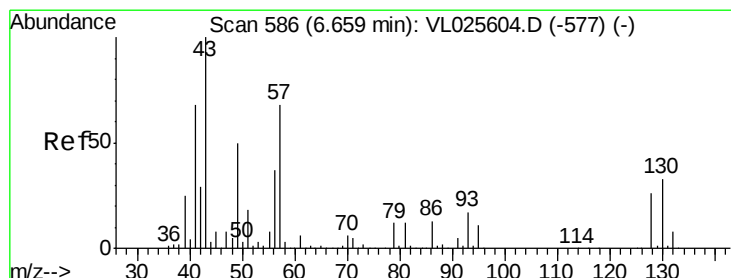
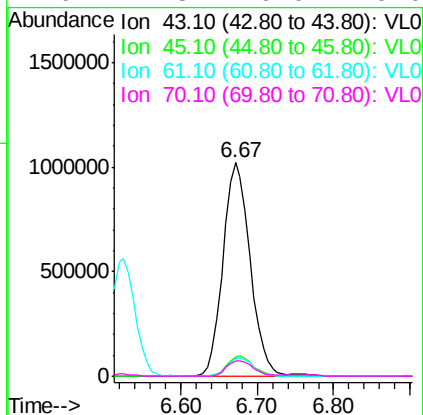
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
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#26

Hexane

Concen: 13.76 ppbv

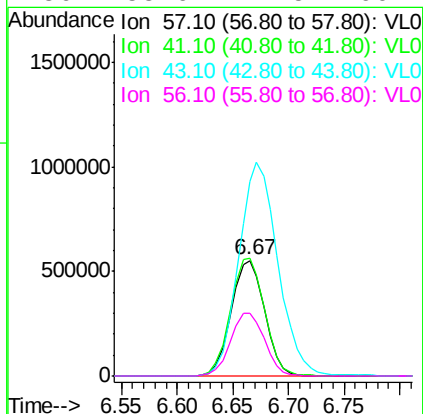
RT: 6.67 min Scan# 587

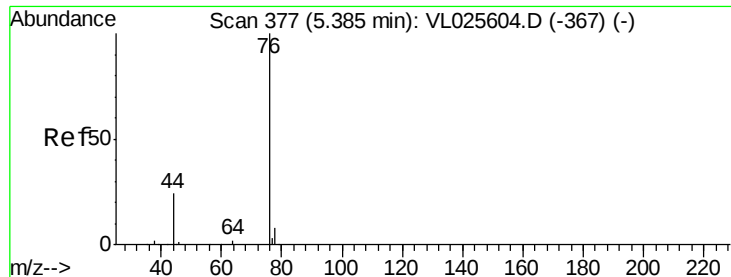
Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion	Ratio	Lower	Upper
57	100		
41	105.1	81.4	122.2
43	218.2	171.4	257.2
56	55.6	44.5	66.7





#27

Carbon Disulfide

Concen: 16.26 ppbv

RT: 5.39 min Scan# 378

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tot Ion	Ratio	Lower	Upper
76	100		
44	25.9	20.2	30.4
78	9.5	7.4	11.2

Instrument :

MSVOA_L

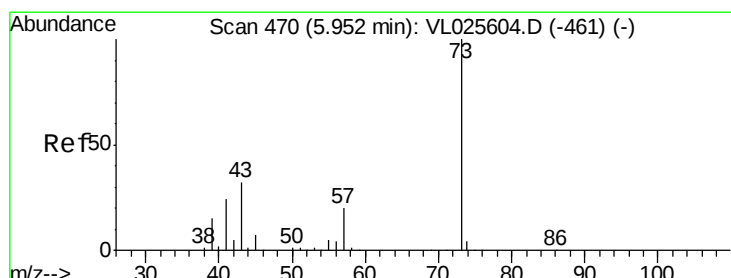
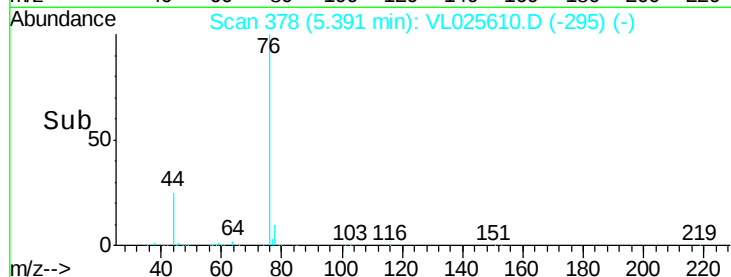
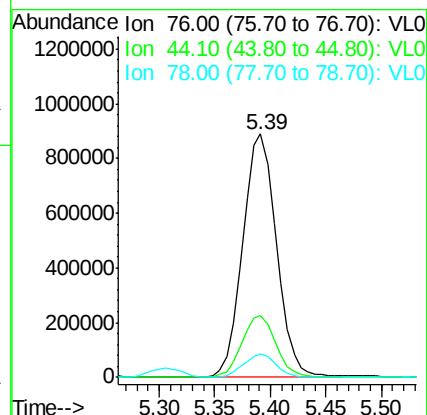
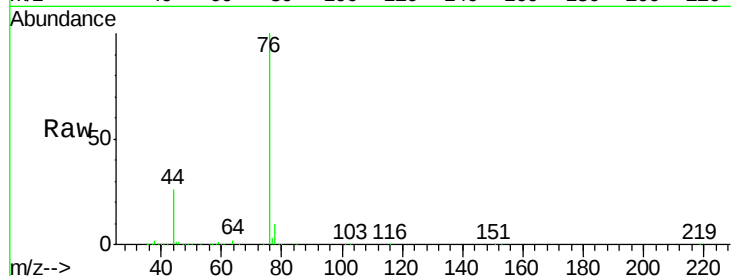
ClientSampleId :

VSTDIC015

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#28

Methyl tert-Butyl Ether

Concen: 15.46 ppbv

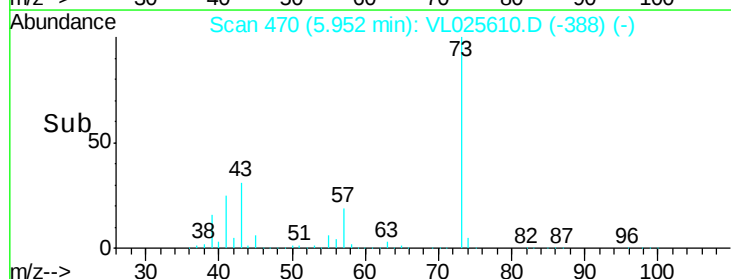
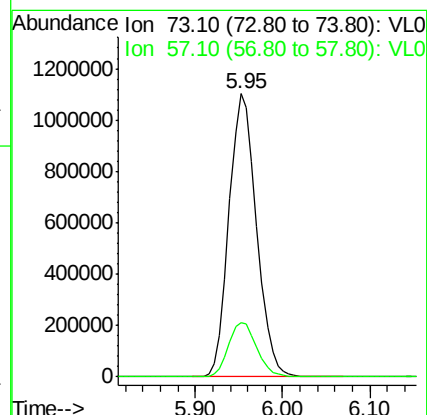
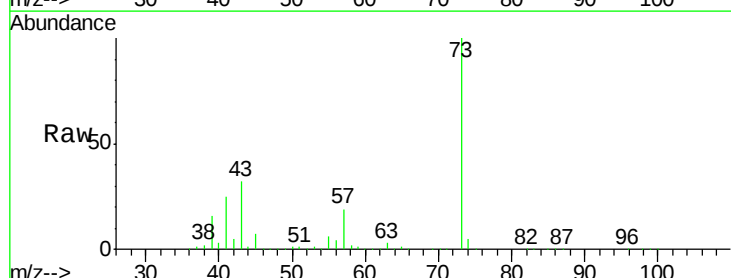
RT: 5.95 min Scan# 470

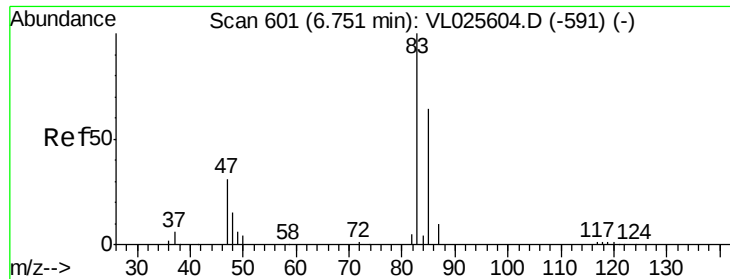
Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion	Ratio	Lower	Upper
73	100		
57	19.9	16.0	24.0





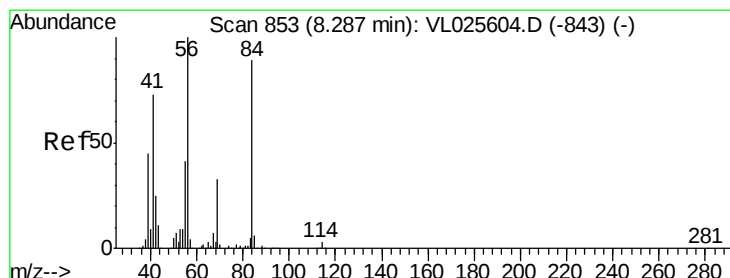
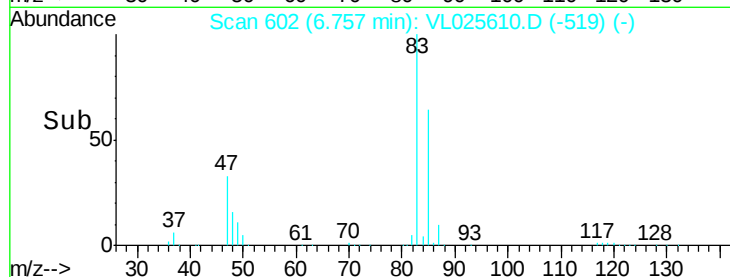
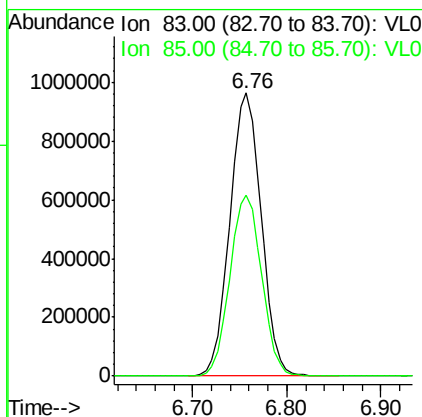
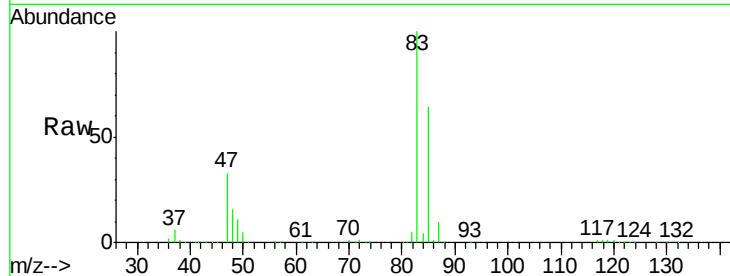
#29
Chloroform
Concen: 16.12 ppbv
RT: 6.76 min Scan# 602
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2239609
Ion Ratio Lower Upper
83 100
85 63.8 51.6 77.4

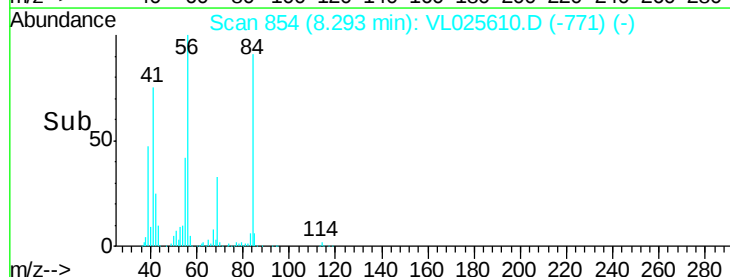
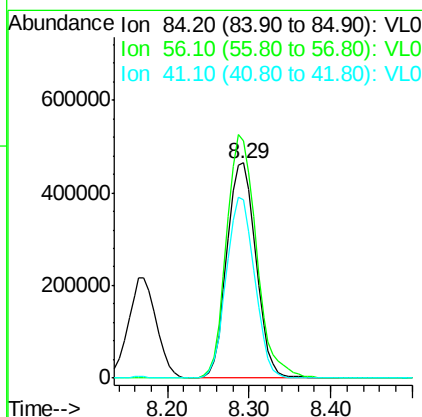
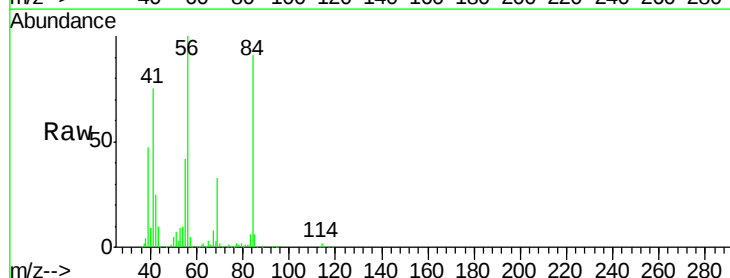
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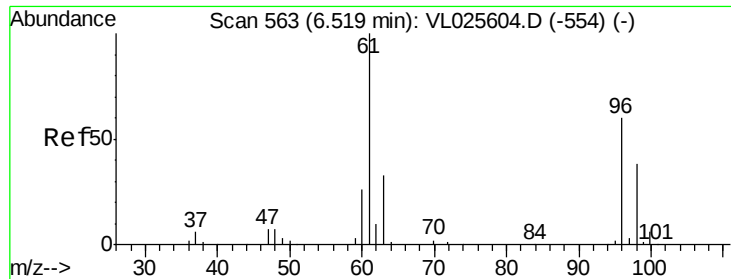
sam
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#30
Cyclohexane
Concen: 14.98 ppbv
RT: 8.29 min Scan# 854
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion: 84 Resp: 1142517
Ion Ratio Lower Upper
84 100
56 116.7 97.5 146.3
41 81.9 65.4 98.2





#31

cis-1,2-Dichloroethene

Concen: 15.37 ppbv

RT: 6.53 min Scan# 564

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 61 Resp: 1231805

Ion Ratio Lower Upper

61 100

96 59.9 48.1 72.1

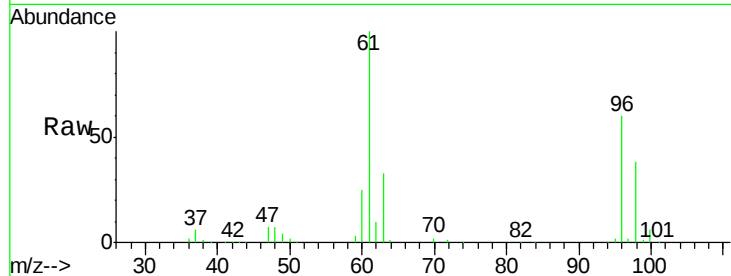
98 38.3 30.7 46.1

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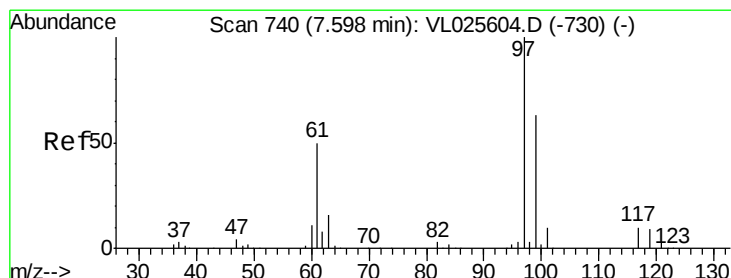
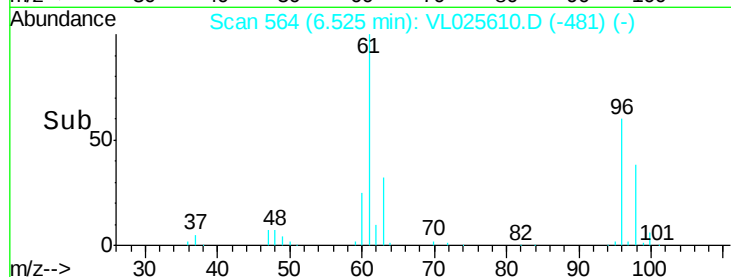
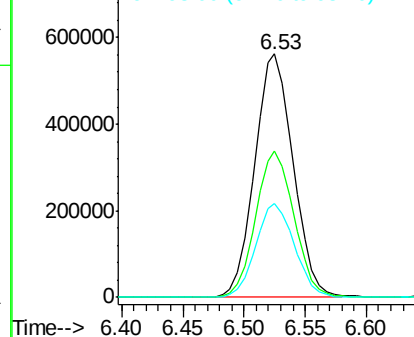
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 16.19 ppbv

RT: 7.60 min Scan# 741

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

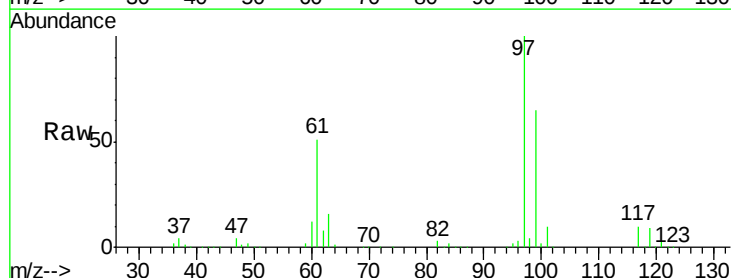
Tgt Ion: 97 Resp: 2539855

Ion Ratio Lower Upper

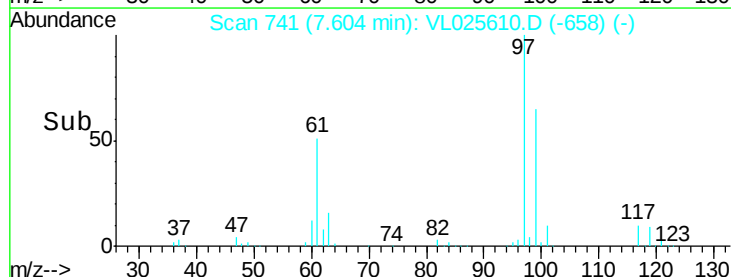
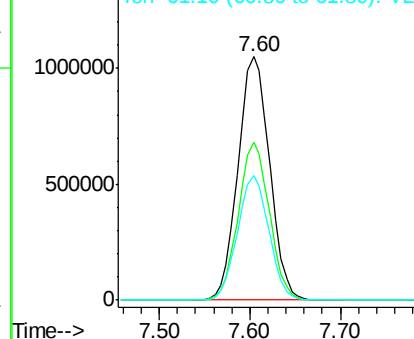
97 100

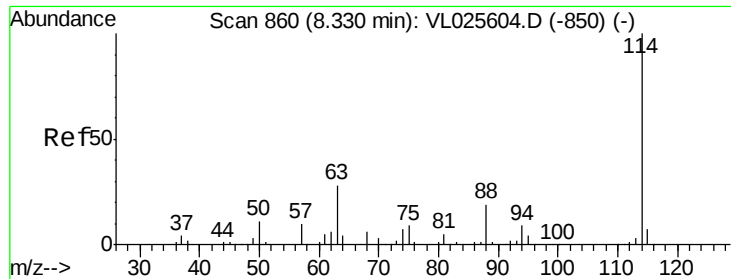
99 63.9 51.2 76.8

61 50.9 40.4 60.6



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





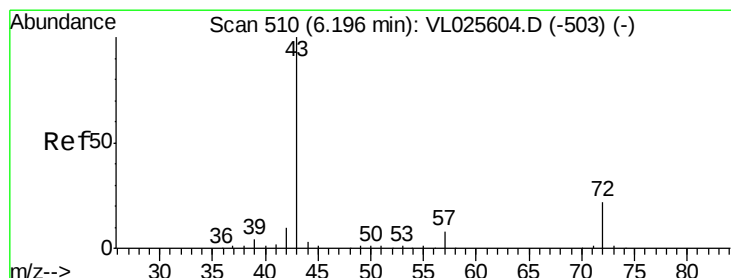
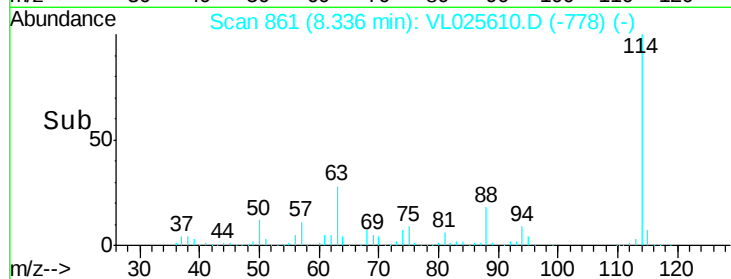
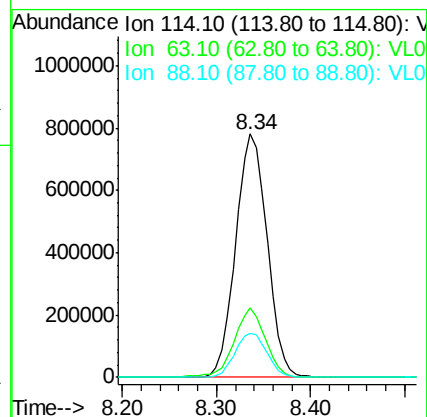
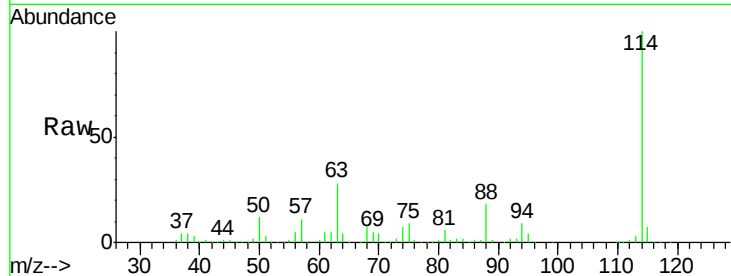
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.34 min Scan# 861
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 1820170
 Ion Ratio Lower Upper
 114 100
 63 28.5 22.4 33.6
 88 18.5 15.0 22.4

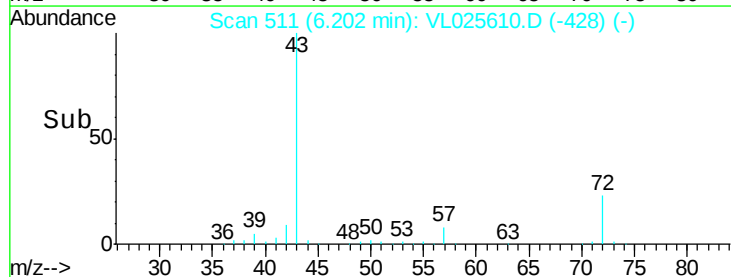
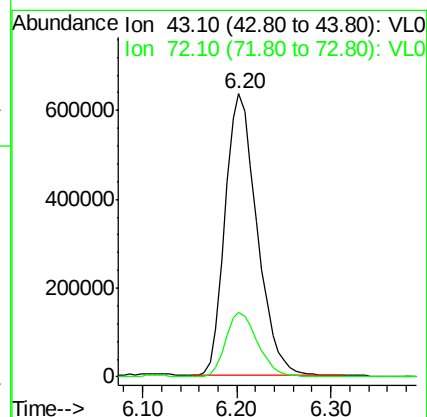
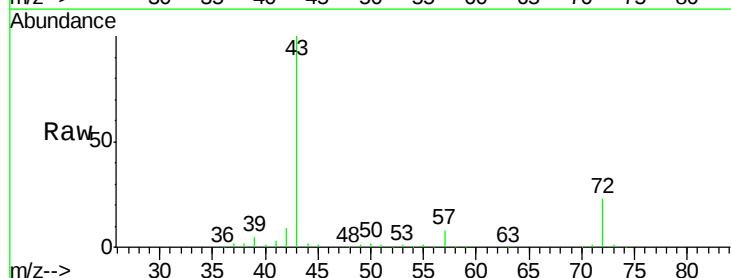
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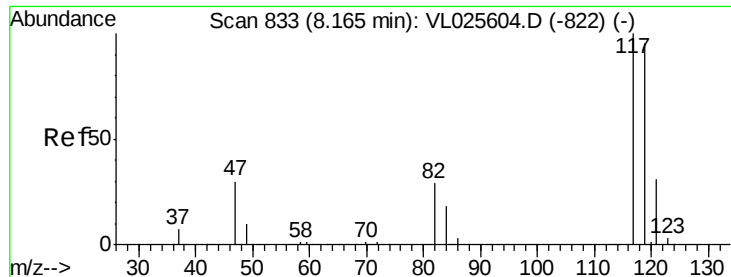
sam
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#34
 2-Butanone
 Concen: 13.80 ppbv
 RT: 6.20 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion: 43 Resp: 1496128
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.6 28.0





#35

Carbon Tetrachloride

Concen: 16.73 ppbv

RT: 8.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2752986

Ion Ratio Lower Upper

117 100

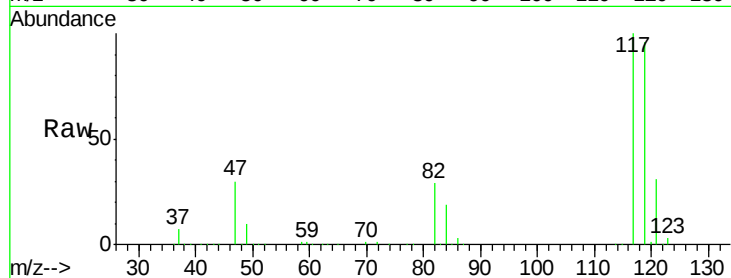
119 96.1 75.9 113.9

121 31.0 24.4 36.6

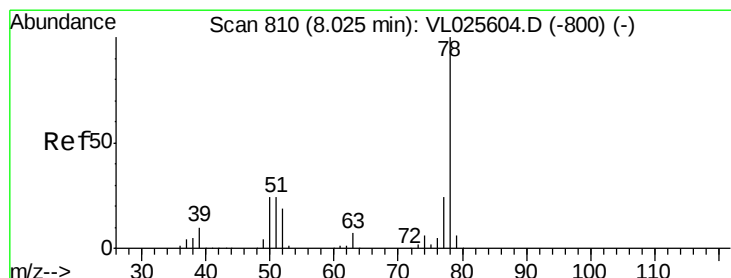
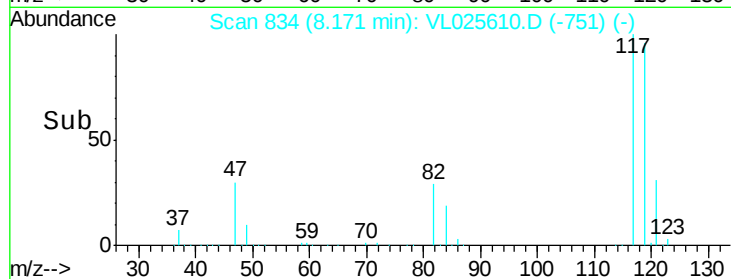
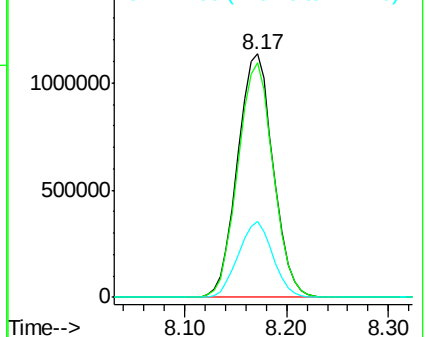
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 13.75 ppbv

RT: 8.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

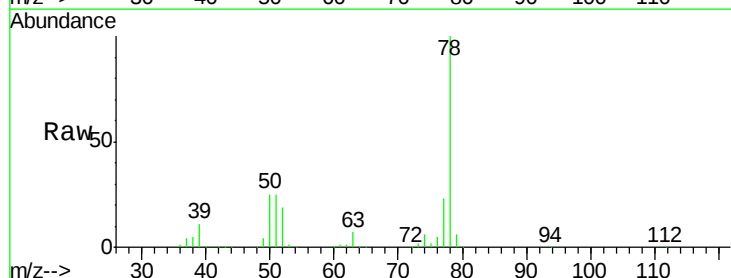
Tgt Ion: 78 Resp: 2471185

Ion Ratio Lower Upper

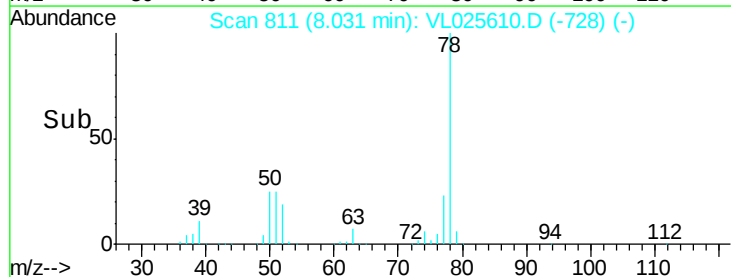
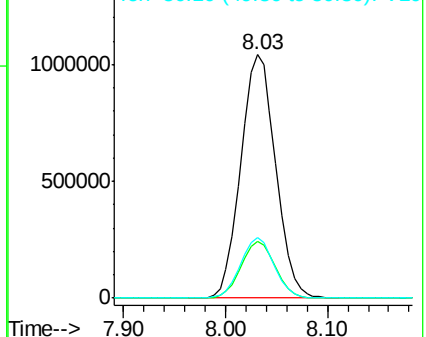
78 100

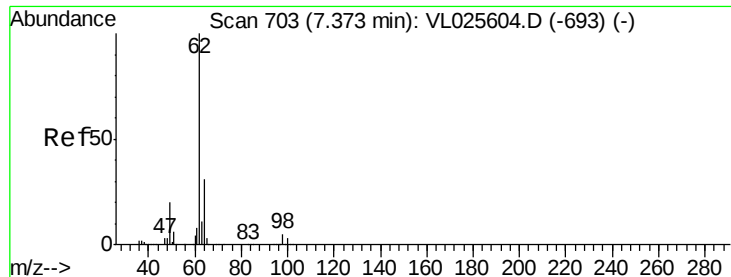
77 23.4 19.0 28.4

50 24.7 19.2 28.8



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





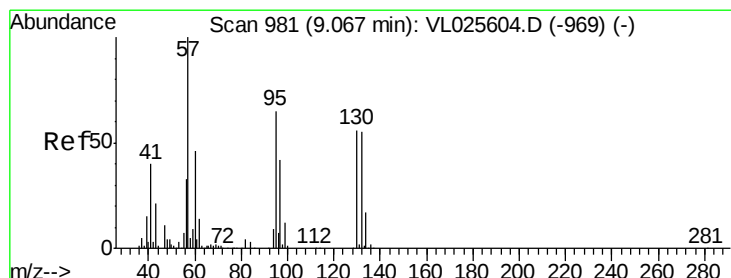
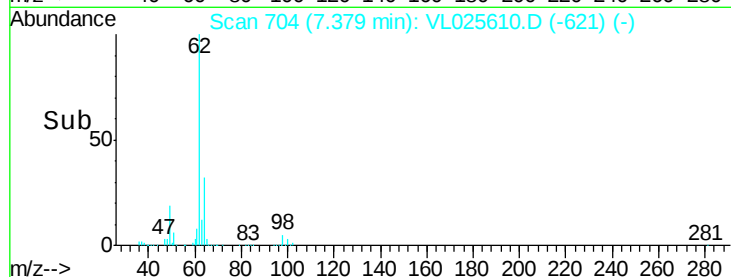
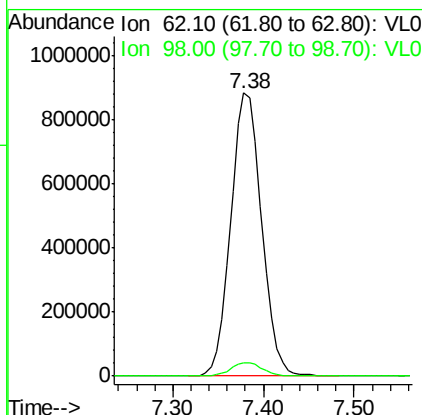
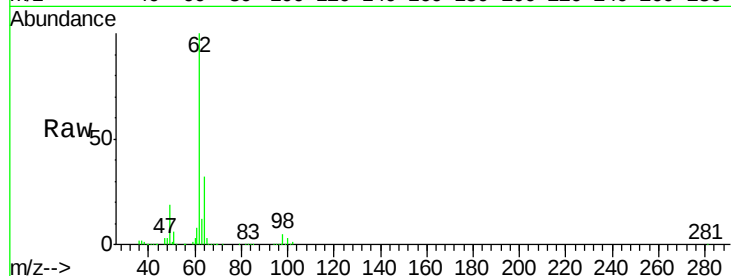
#37
 1,2-Dichloroethane
 Concen: 16.73 ppbv
 RT: 7.38 min Scan# 704
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.9	4.1	6.1

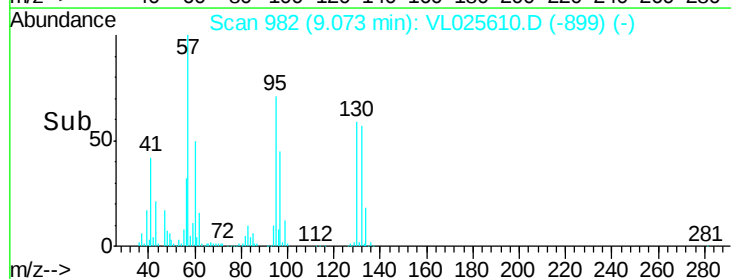
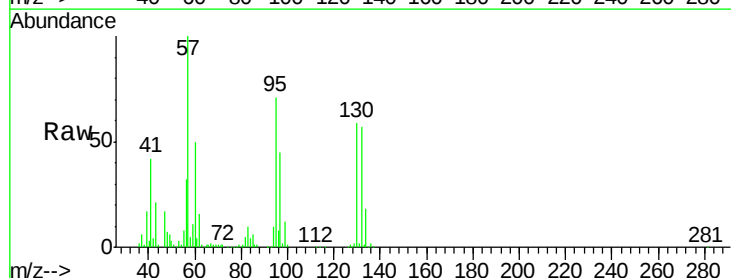
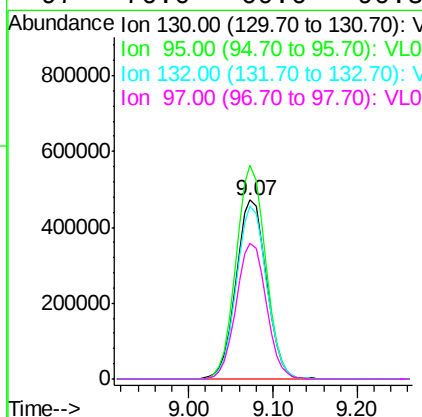
Manual Integrations
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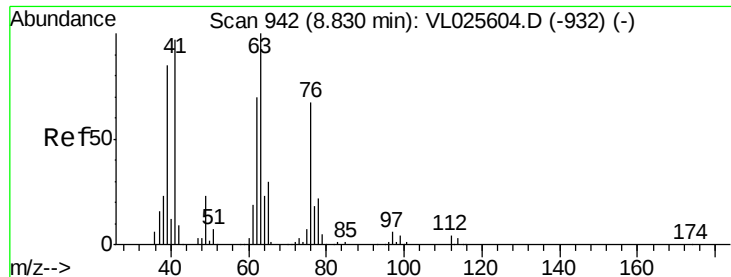
sam
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#38
 Trichloroethene
 Concen: 14.78 ppbv
 RT: 9.07 min Scan# 982
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	119.6	94.2	141.4
132	96.5	78.6	118.0
97	76.0	60.6	90.8





#39

1,2-Dichloropropane

Concen: 13.16 ppbv

RT: 8.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

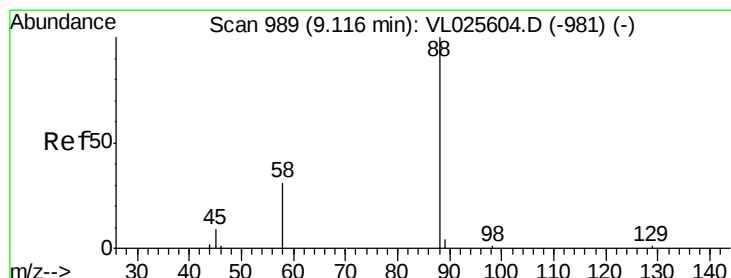
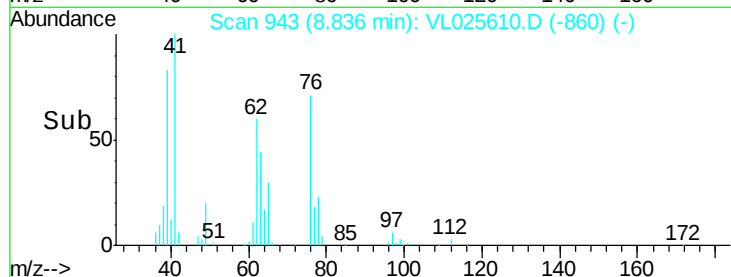
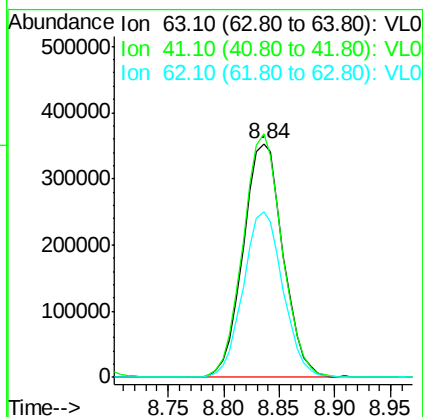
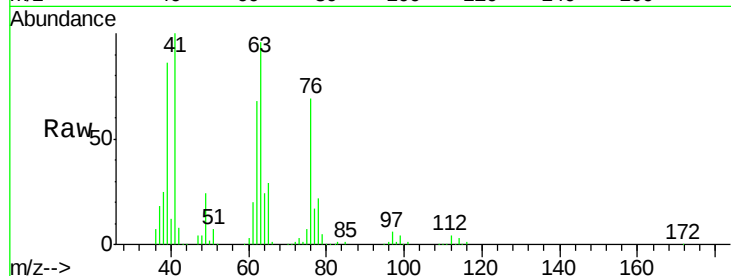
ClientSampleId :

VSTDIC015

Tot Ion:	63	Resp:	878366
Ion	Ratio	Lower	Upper
63	100		
41	104.2	78.0	117.0
62	71.0	55.7	83.5

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#40

1,4-Dioxane

Concen: 8.80 ppbv

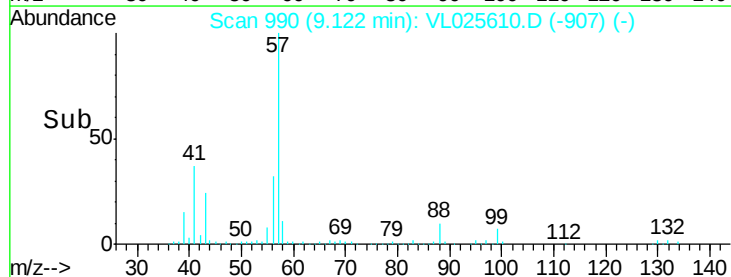
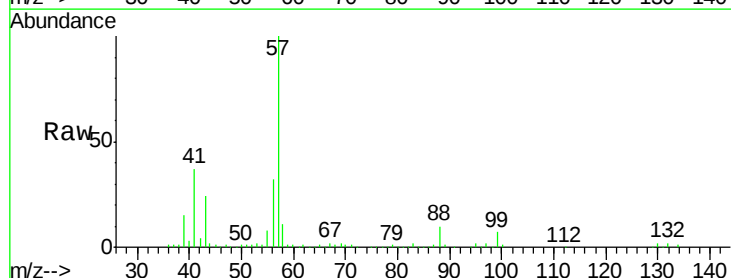
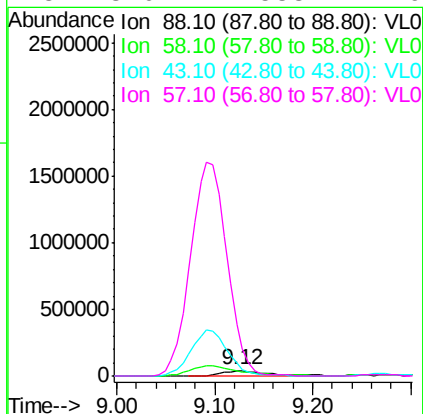
RT: 9.12 min Scan# 990

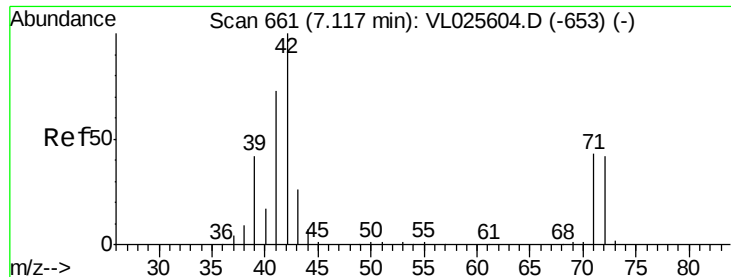
Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion:	88	Resp:	130339
Ion	Ratio	Lower	Upper
88	100		
58	215.5	127.1	190.7#
43	700.7	337.7	506.5#
57	3202.7	1533.2	2299.8#





#41

Tetrahydrofuran

Concen: 13.35 ppbv

RT: 7.12 min Scan# 662

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

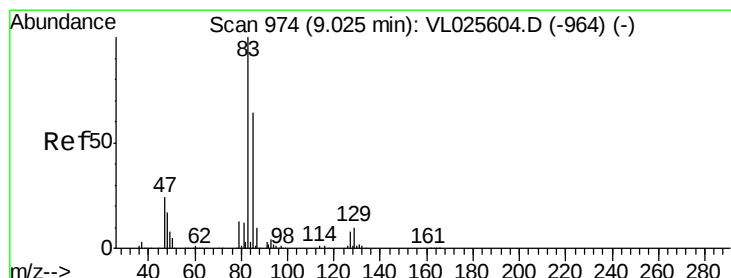
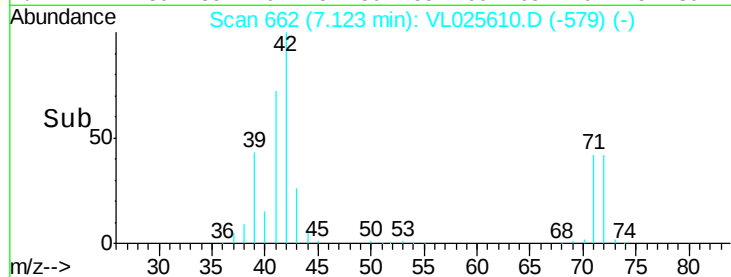
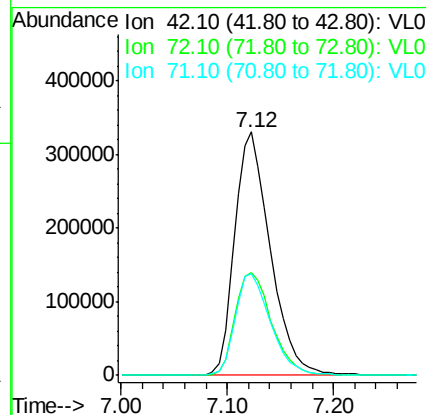
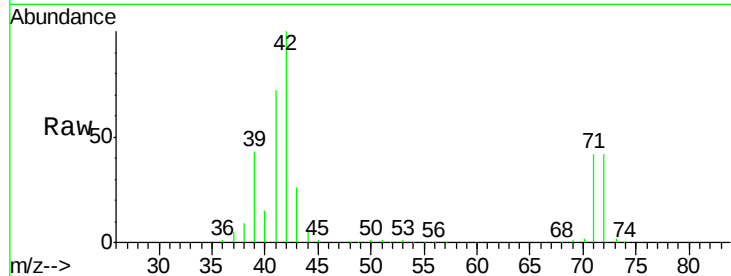
VSTDIC015

Tot Ion:	42	Resp:	777348
Ion	Ratio	Lower	Upper
42	100		
72	43.5	34.0	51.0
71	41.5	33.0	49.6

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#42

Bromodichloromethane

Concen: 16.60 ppbv

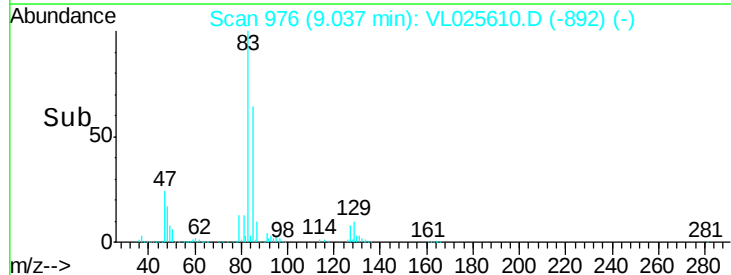
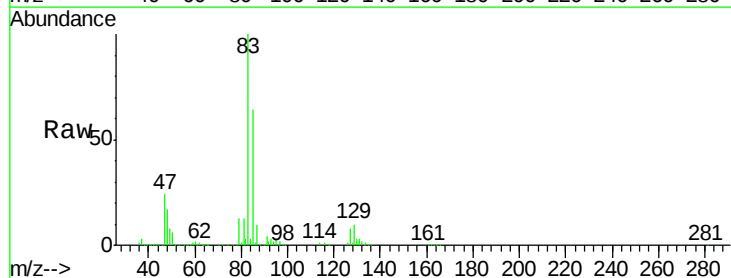
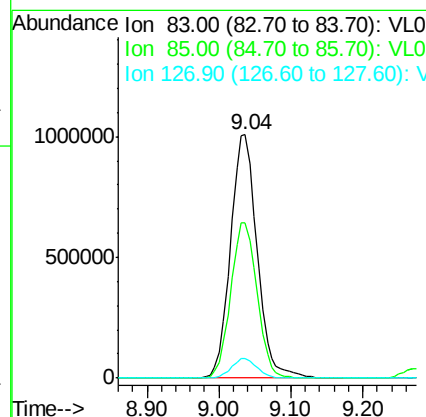
RT: 9.04 min Scan# 976

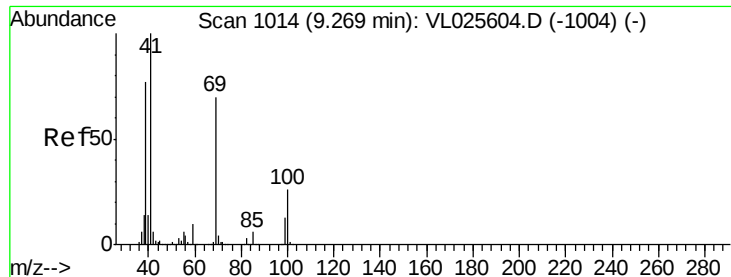
Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion:	83	Resp:	2600441
Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.3	76.9
127	8.3	6.0	9.0





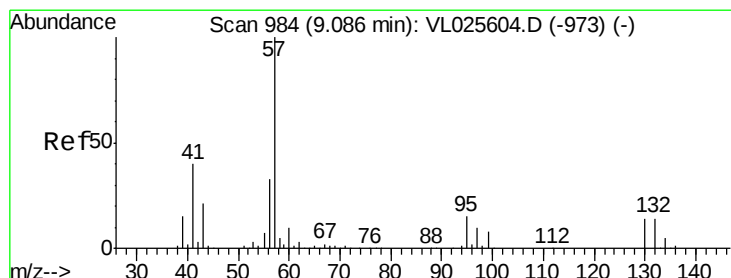
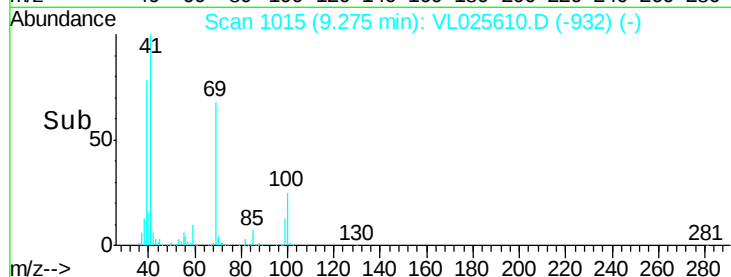
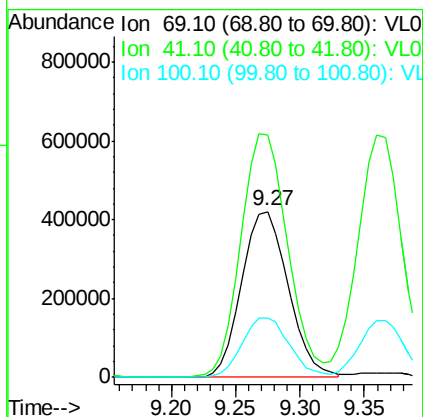
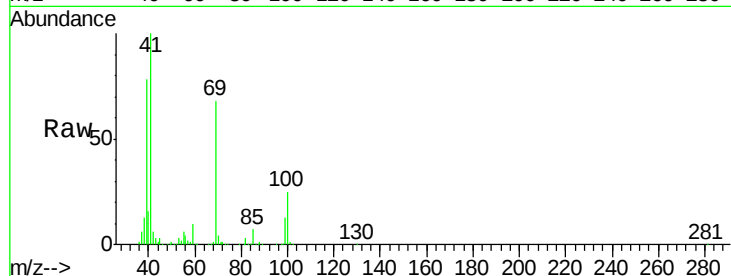
#43
Methvl Methacrylate
Concen: 15.84 ppbv
RT: 9.27 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1058380
Ion Ratio Lower Upper
69 100
41 147.7 117.3 175.9
100 36.4 29.0 43.6

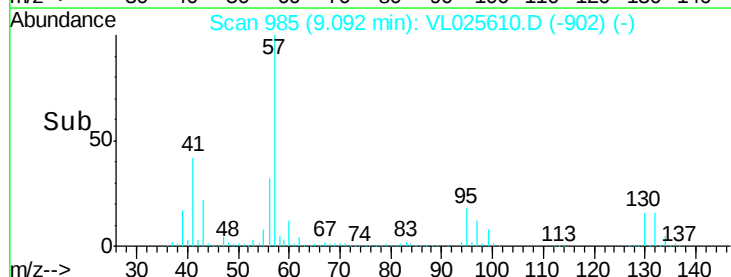
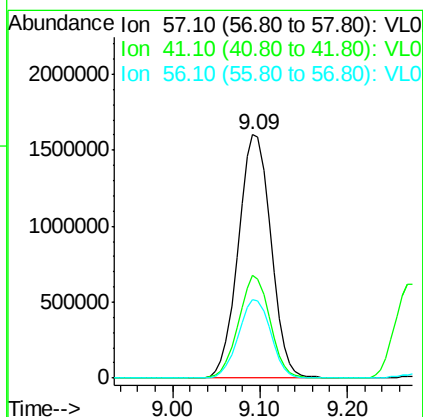
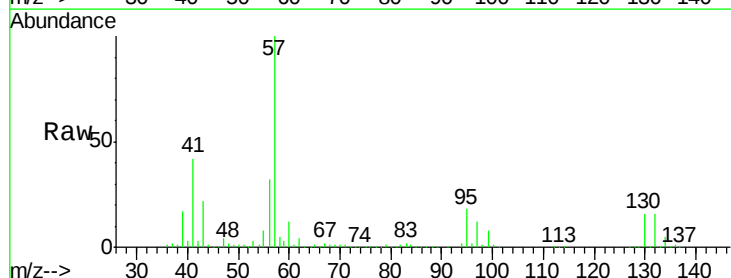
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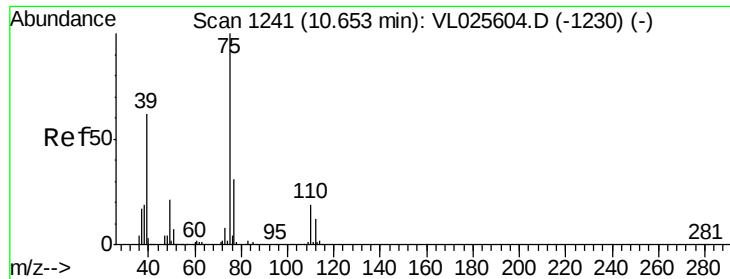
sam
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#44
2,2,4-Trimethylpentane
Concen: 13.45 ppbv
RT: 9.09 min Scan# 985
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion: 57 Resp: 4170625
Ion Ratio Lower Upper
57 100
41 40.6 31.2 46.8
56 32.0 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 18.41 ppbv

RT: 10.66 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1924776

Ion Ratio Lower Upper

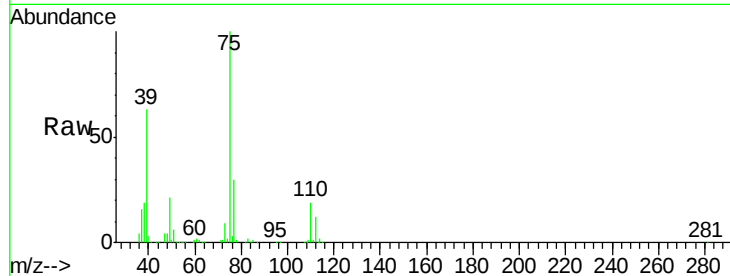
75 100

77 29.8 24.6 37.0

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10.66

800000

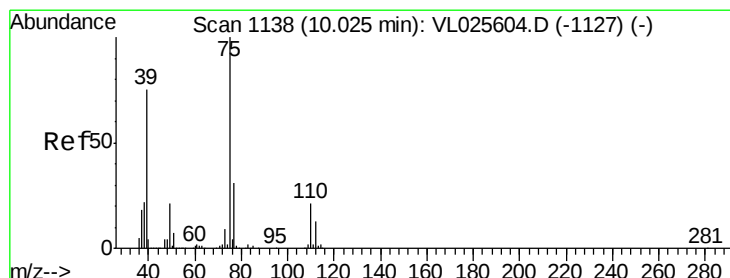
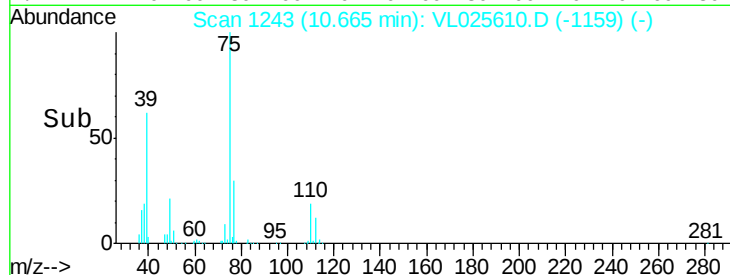
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 16.84 ppbv

RT: 10.03 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

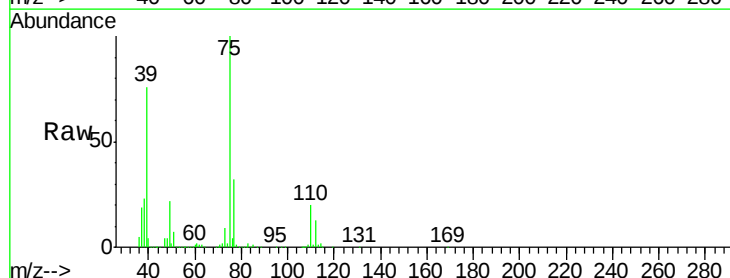
Tgt Ion: 75 Resp: 2045675

Ion Ratio Lower Upper

75 100

39 76.2 60.4 90.6

77 31.9 24.6 37.0



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

10.03

1000000

800000

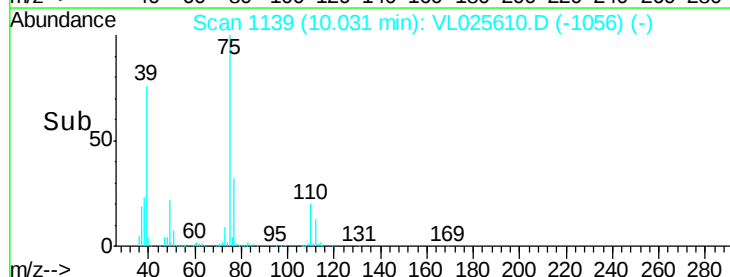
600000

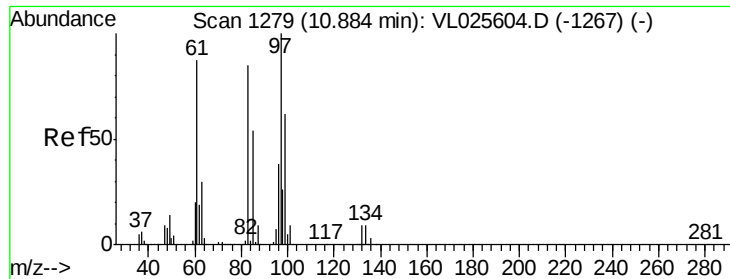
400000

200000

0

Time-->





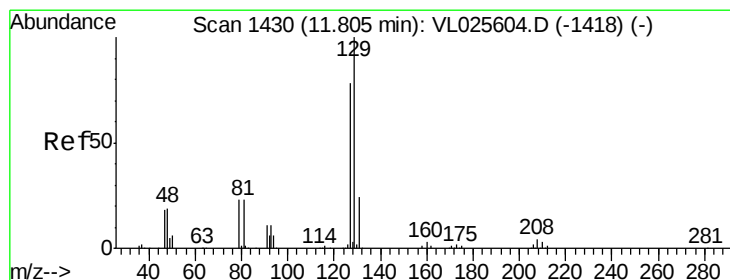
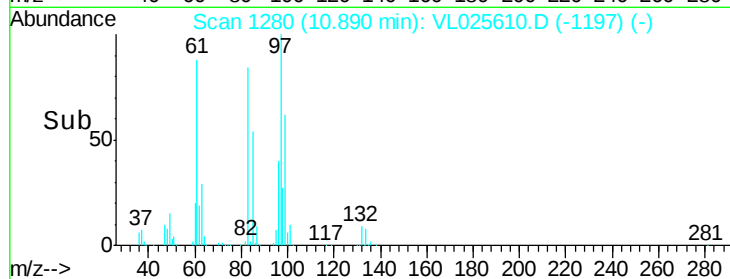
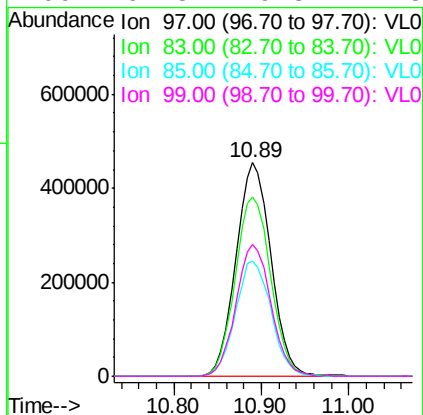
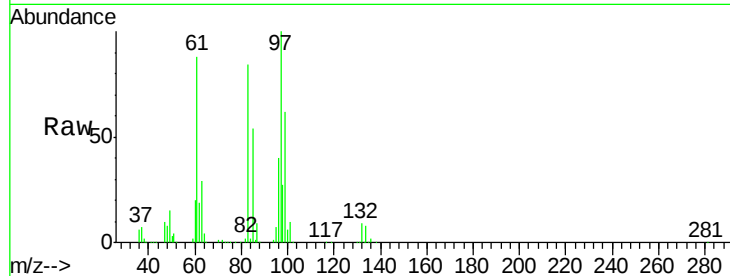
#47
 1,1,2-Trichloroethane
 Concen: 15.15 ppbv
 RT: 10.89 min Scan# 1280
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.1	67.8	101.8
85	54.0	43.5	65.3
99	61.8	49.8	74.8

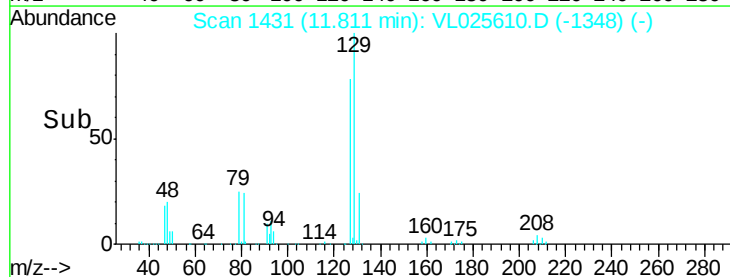
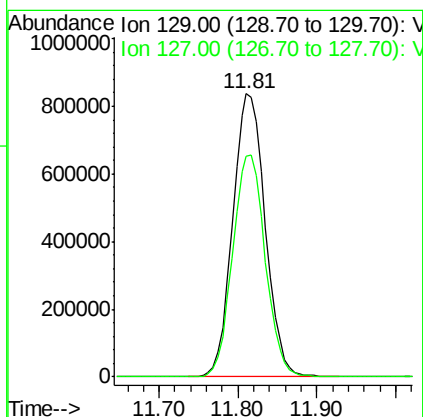
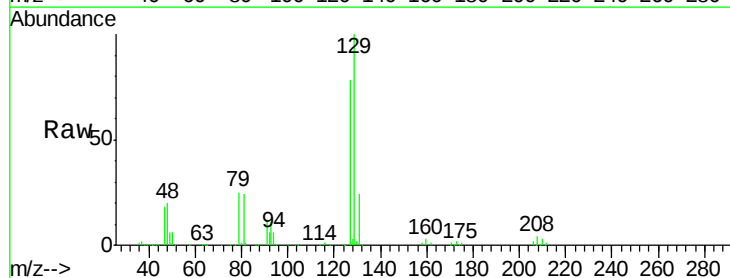
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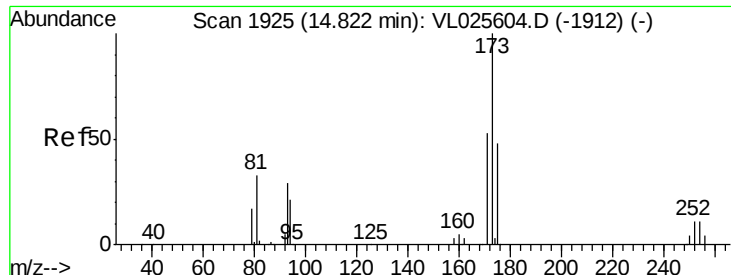
sam
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#48
 Dibromochloromethane
 Concen: 17.82 ppbv
 RT: 11.81 min Scan# 1431
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.1	39.0	116.9





#49

Bromoform

Concen: 19.18 ppbv

RT: 14.83 min Scan# 1926

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2065112

Ion Ratio Lower Upper

173 100

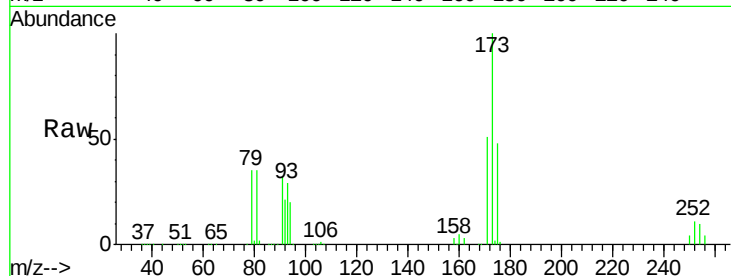
175 48.8 39.5 59.3

171 51.9 42.2 63.2

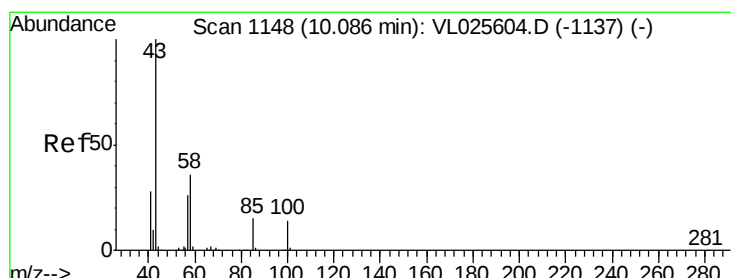
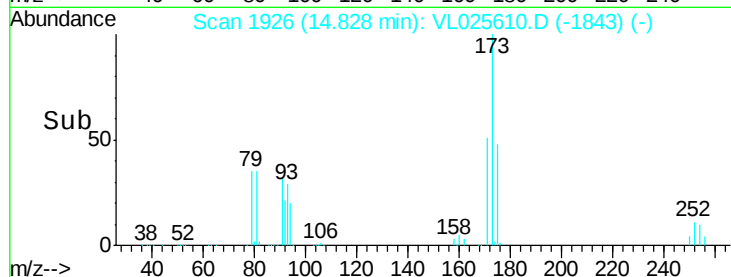
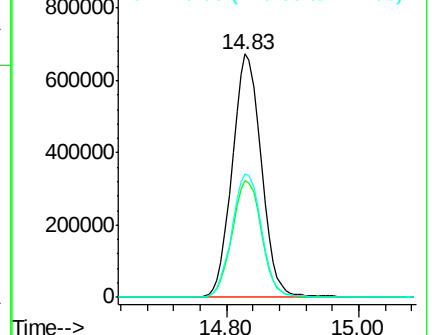
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.83 ppbv

RT: 10.09 min Scan# 1149

Delta R.T. 0.01 min

Lab File: VL025610.D

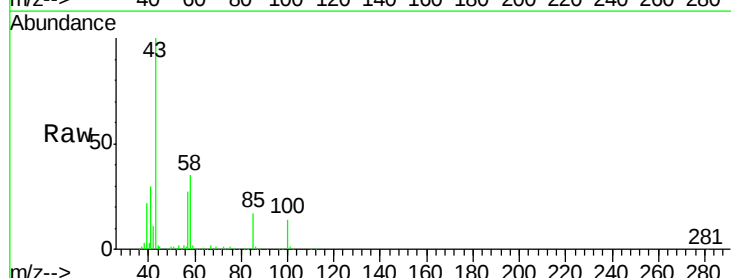
Acq: 7 Jul 2015 14:34

Tgt Ion: 43 Resp: 2325495

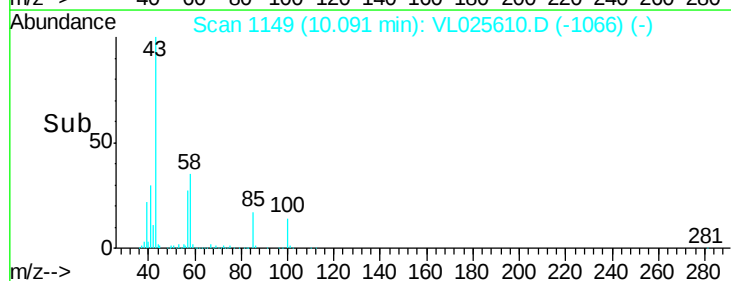
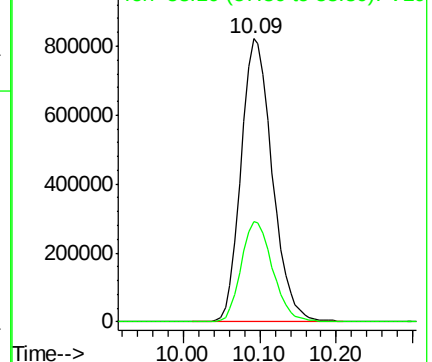
Ion Ratio Lower Upper

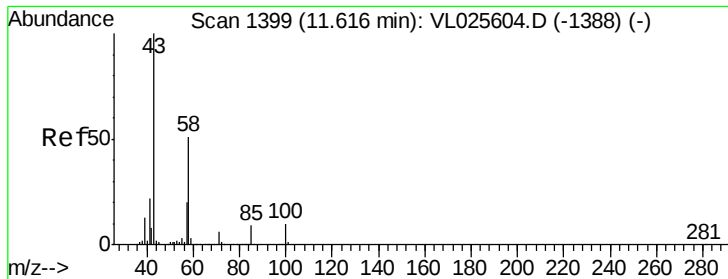
43 100

58 35.9 28.5 42.7



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





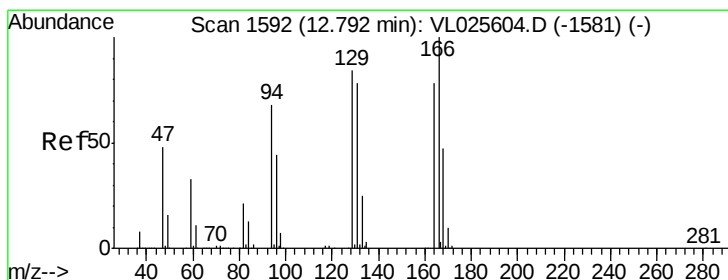
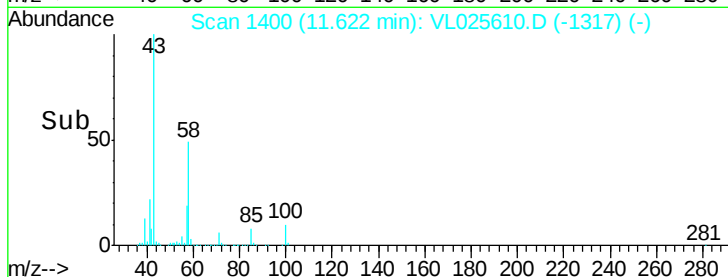
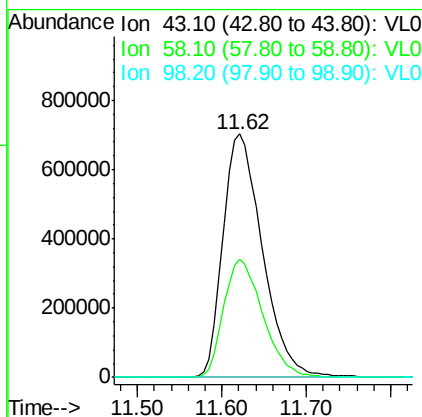
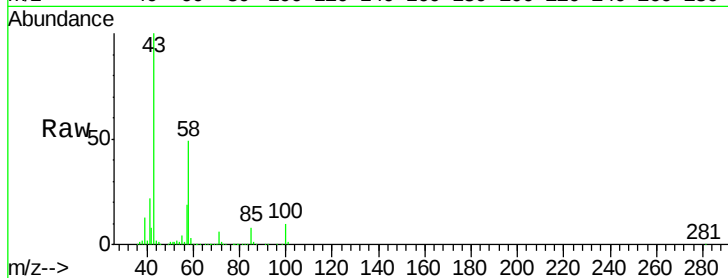
#51
2-Hexanone
Concen: 17.08 ppbv
RT: 11.62 min Scan# 1400
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2245854
Ion Ratio Lower Upper
43 100
58 48.4 39.0 58.6
98 0.4 0.2 0.4

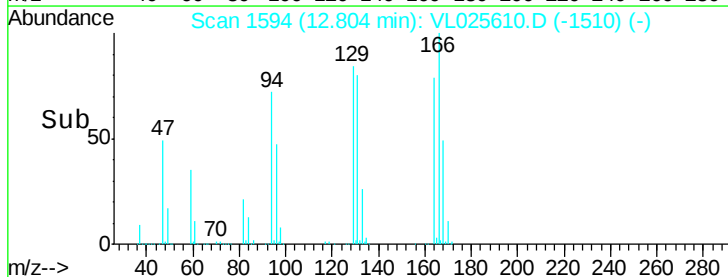
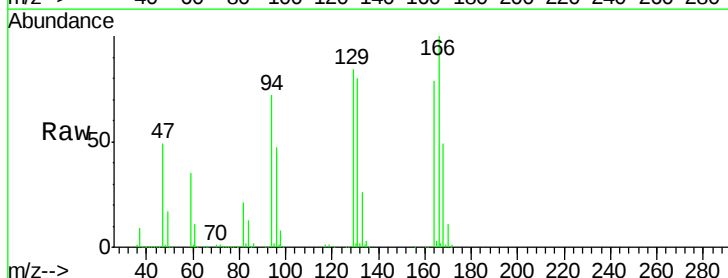
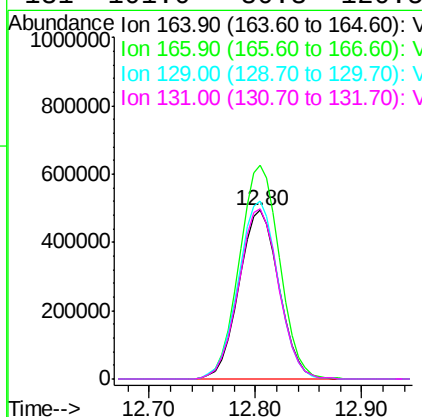
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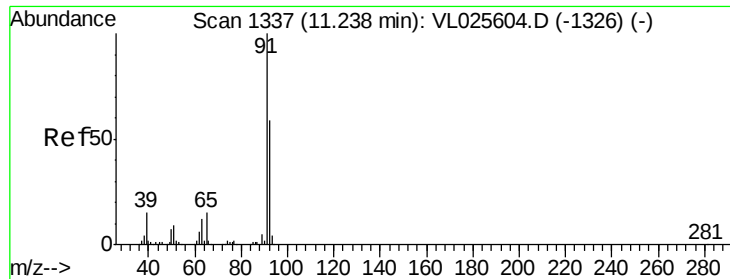
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#52
Tetrachloroethene
Concen: 15.80 ppbv
RT: 12.80 min Scan# 1594
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion: 164 Resp: 1301047
Ion Ratio Lower Upper
164 100
166 126.5 102.3 153.5
129 105.7 86.2 129.4
131 101.0 80.3 120.5





#53

Toluene

Concen: 15.61 ppbv

RT: 11.24 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3696523

Ion Ratio Lower Upper

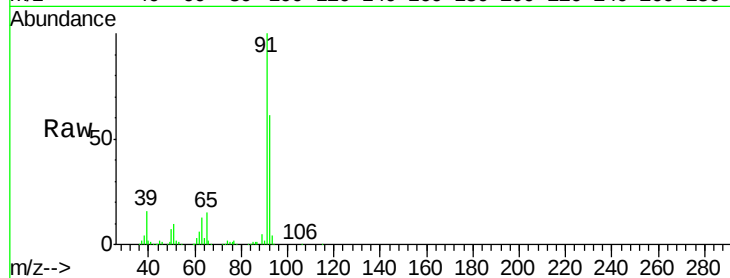
91 100

92 60.4 48.2 72.2

Manual Integrations
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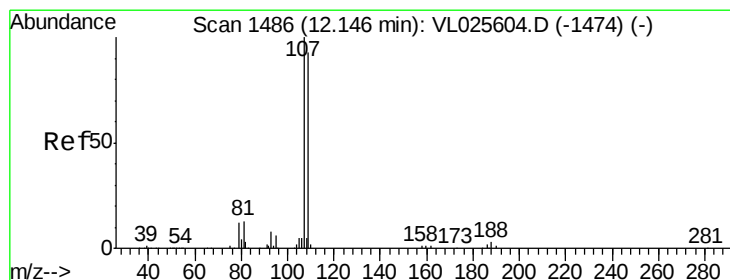
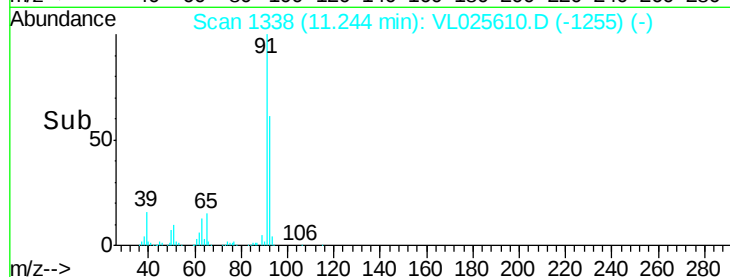
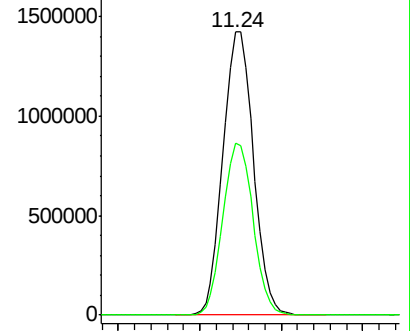
sam

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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: 16.20 ppbv

RT: 12.15 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VL025610.D

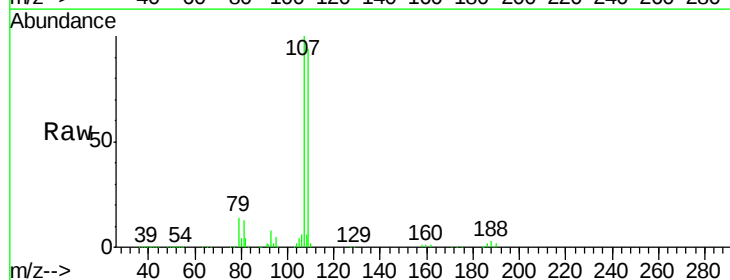
Acq: 7 Jul 2015 14:34

Tgt Ion: 107 Resp: 2072402

Ion Ratio Lower Upper

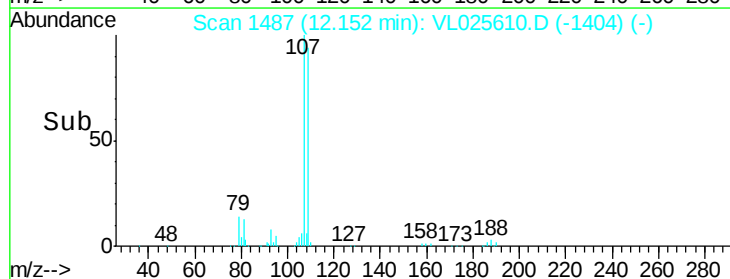
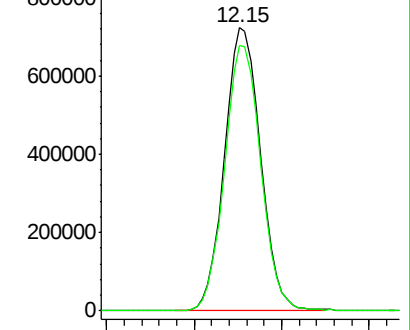
107 100

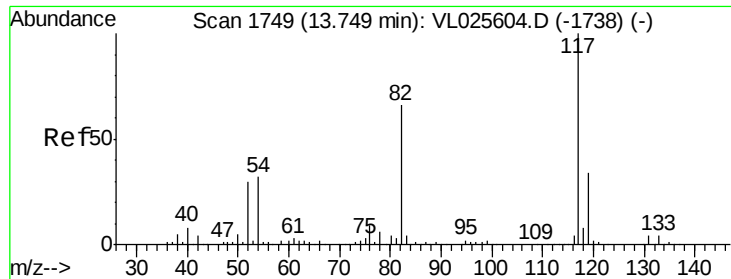
109 93.8 74.1 111.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





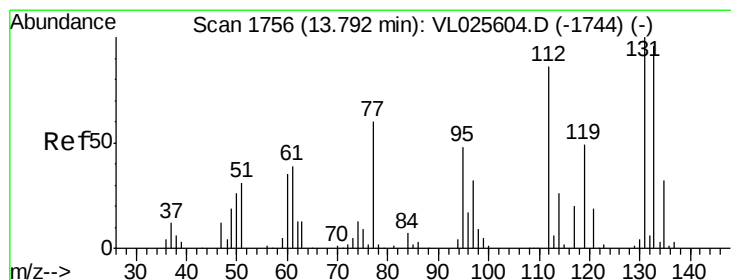
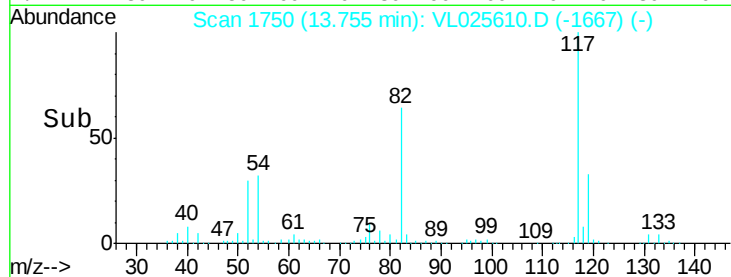
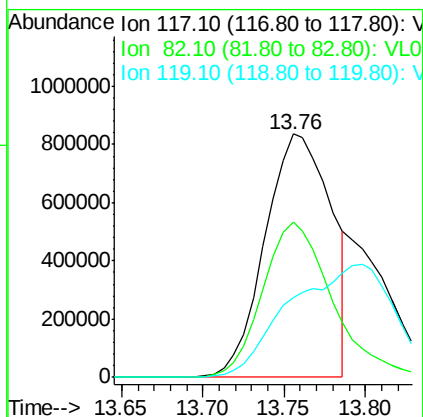
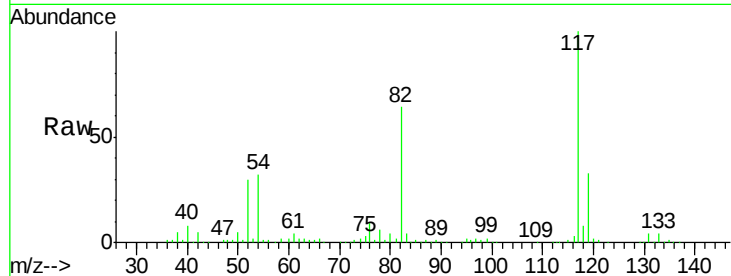
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.76 min Scan# 1750
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2382739
Ion Ratio Lower Upper
117 100
82 67.5 50.5 75.7
119 73.7 45.1 67.7#

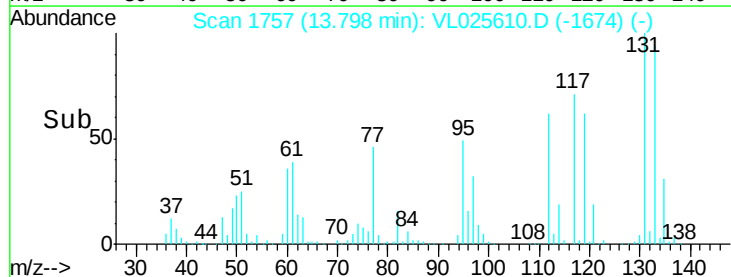
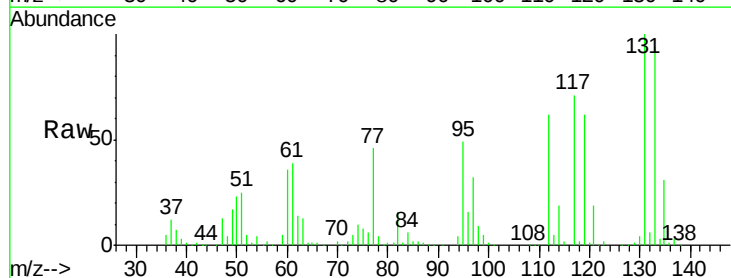
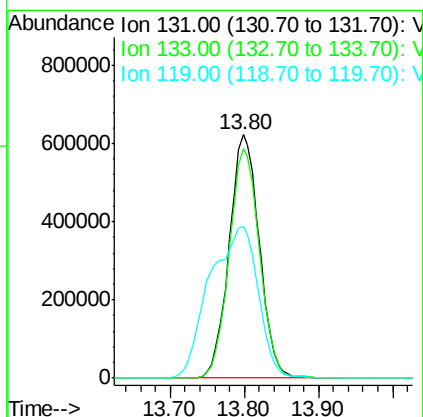
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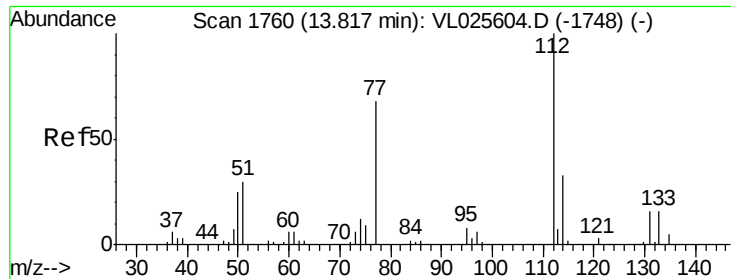
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#56
1,1,1,2-Tetrachloroethane
Concen: 15.62 ppbv
RT: 13.80 min Scan# 1757
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion:131 Resp: 1767742
Ion Ratio Lower Upper
131 100
133 95.0 76.9 115.3
119 99.4 97.8 146.8





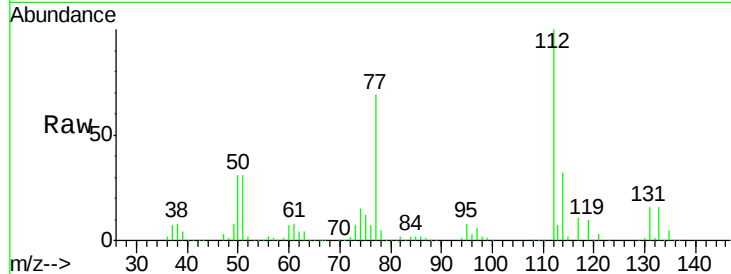
#57
Chlorobenzene
Concen: 14.05 ppbv
RT: 13.83 min Scan# 1762
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

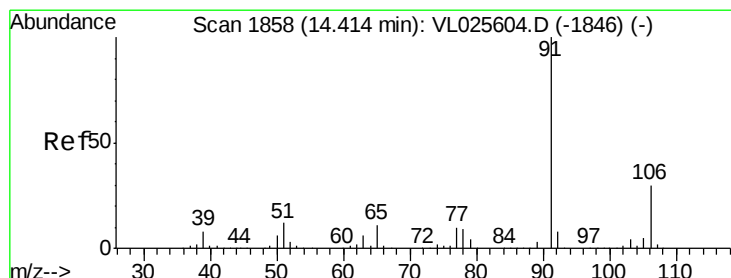
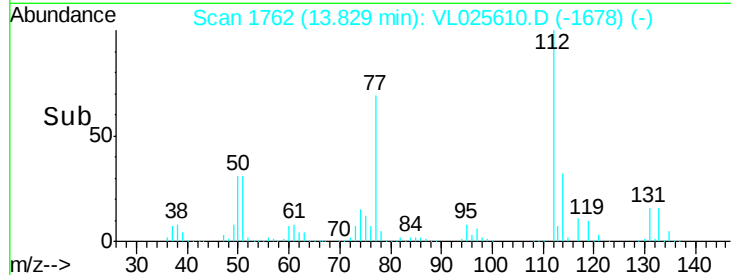
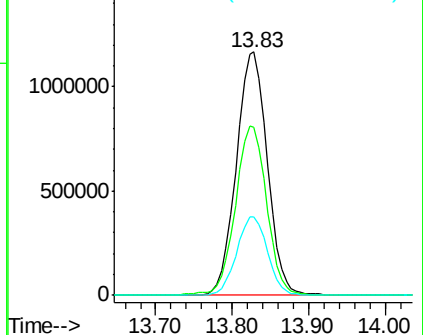
Tot Ion: 112 Resp: 3281291
Ion Ratio Lower Upper
112 100
77 68.6 55.2 82.8
114 32.0 29.4 36.0

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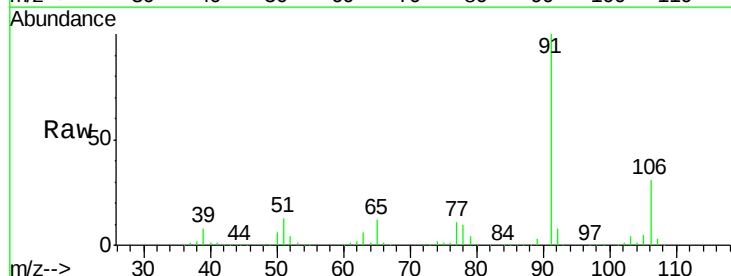


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

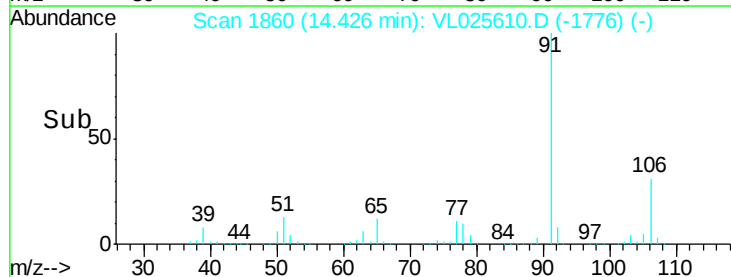
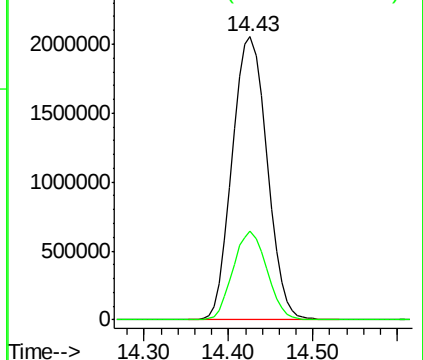


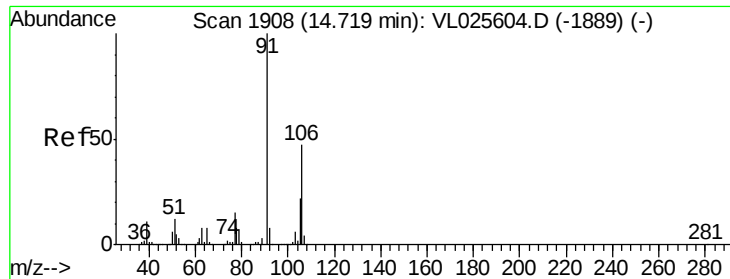
#58
Ethyl Benzene
Concen: 15.24 ppbv
RT: 14.43 min Scan# 1860
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion: 91 Resp: 5780660
Ion Ratio Lower Upper
91 100
106 31.5 24.2 36.2



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





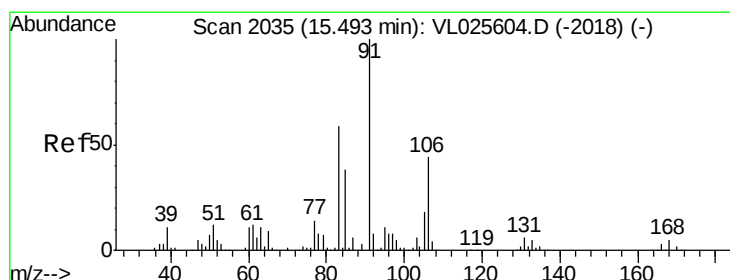
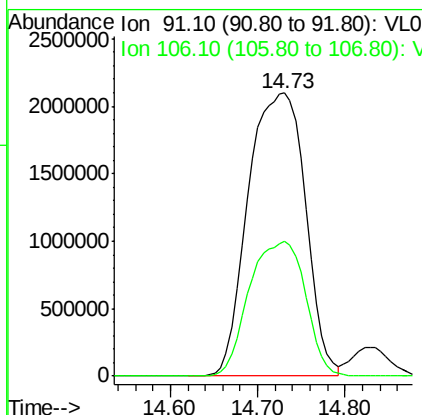
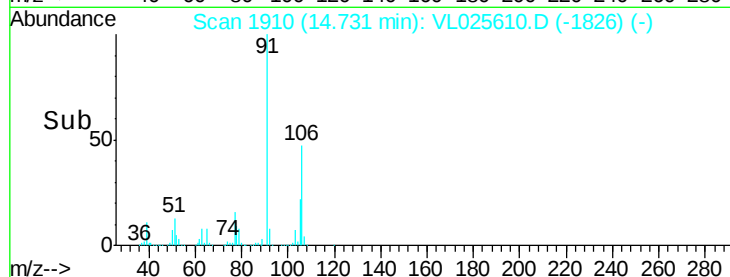
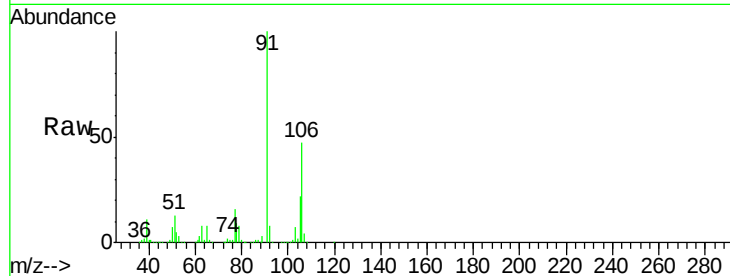
#59
m/p-Xylene
Concen: 29.98 ppbv
RT: 14.73 min Scan# 1910
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 9503758
Ion Ratio Lower Upper
91 100
106 47.1 37.9 56.9

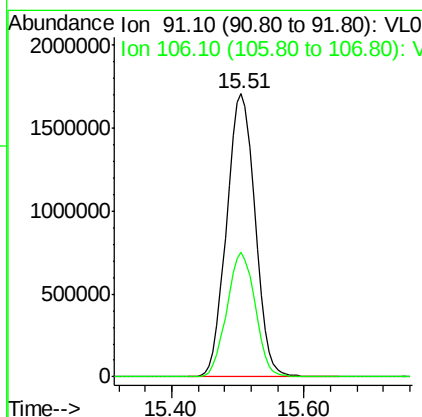
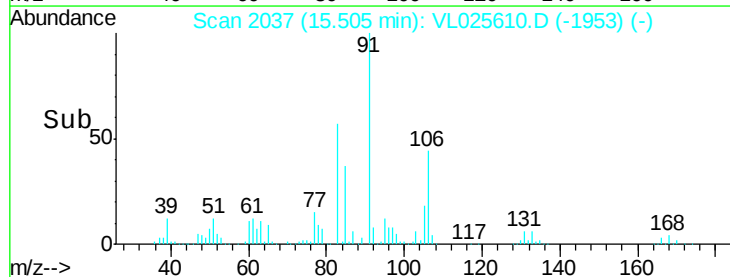
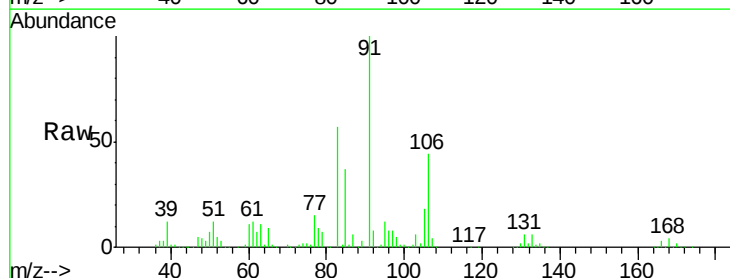
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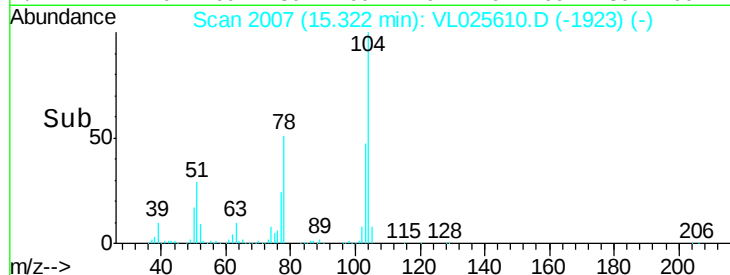
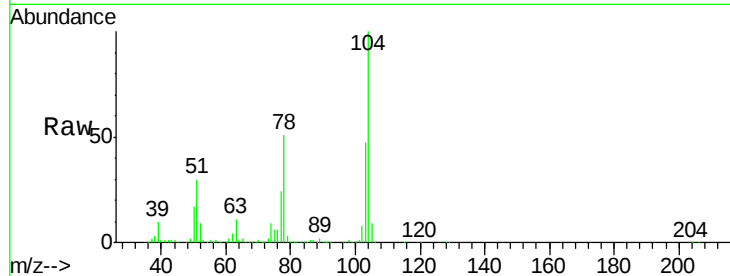
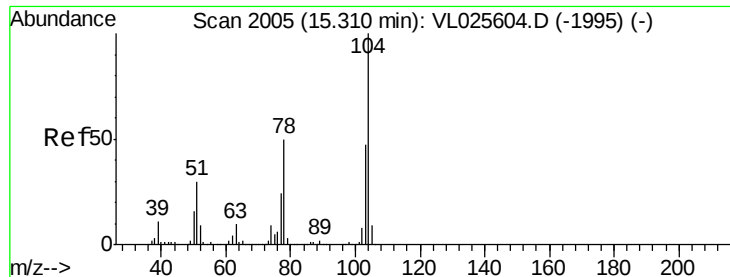
sam
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#60
o-Xylene
Concen: 15.13 ppbv
RT: 15.51 min Scan# 2037
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion: 91 Resp: 5093124
Ion Ratio Lower Upper
91 100
106 43.9 22.1 66.1





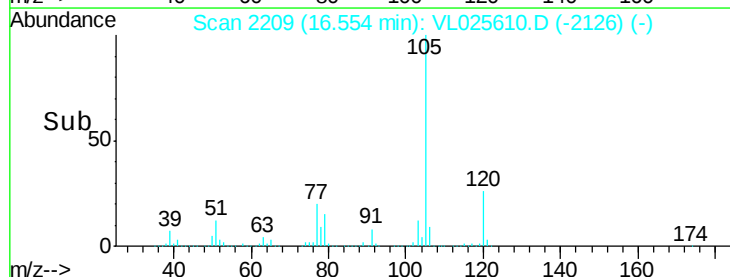
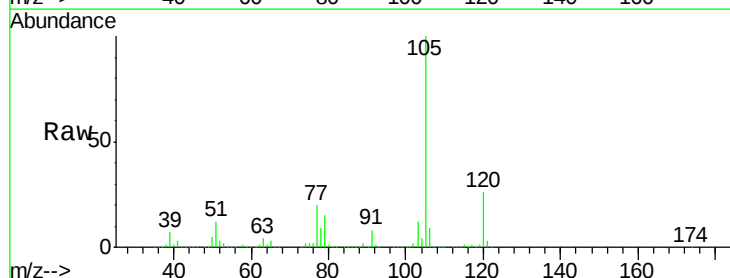
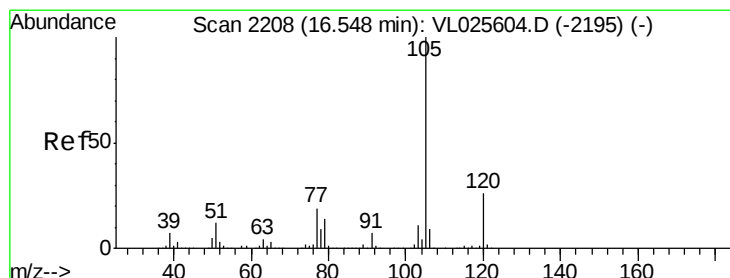
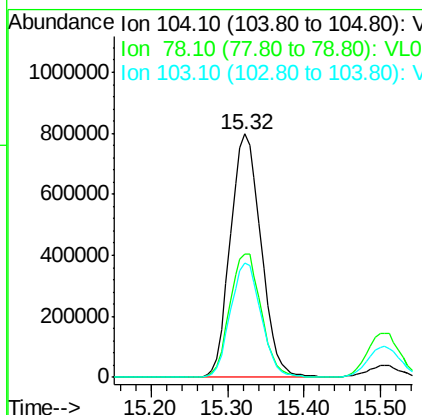
#61
Stvrene
Concen: 17.33 ppbv
RT: 15.32 min Scan# 2007
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tot Ion:104 Resp: 2225150
Ion Ratio Lower Upper
104 100
78 51.7 40.2 60.4
103 47.0 37.4 56.2

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

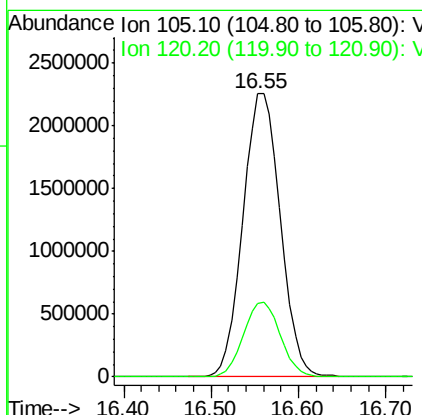
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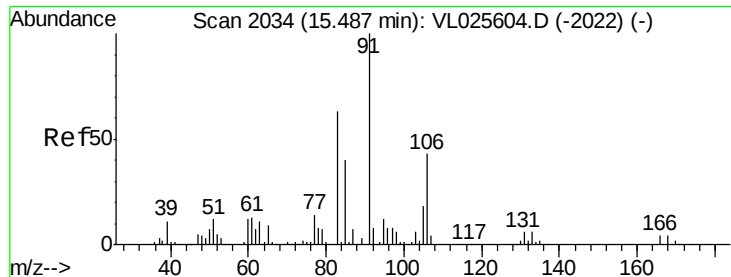
sam
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#62
Isopropylbenzene
Concen: 15.12 ppbv
RT: 16.55 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion:105 Resp: 6709356
Ion Ratio Lower Upper
105 100
120 26.1 20.6 31.0





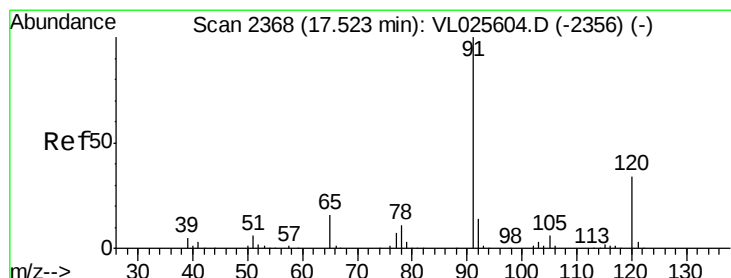
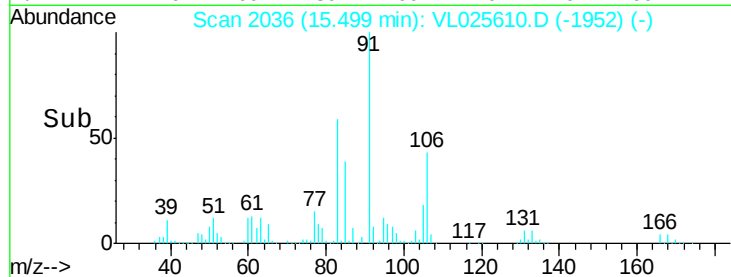
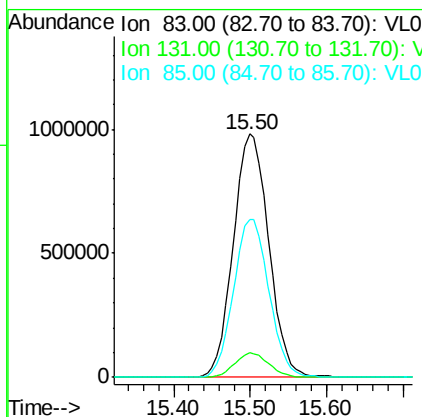
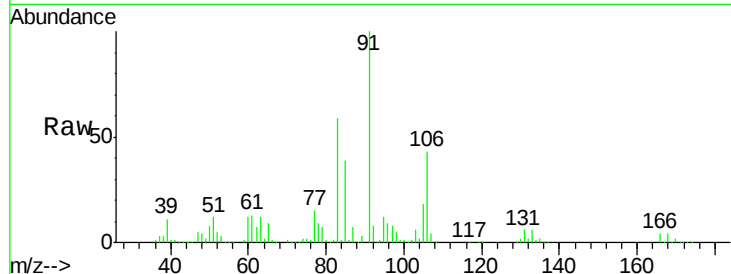
#63
1,1,2,2-Tetrachloroethane
Concen: 13.24 ppbv
RT: 15.50 min Scan# 2036
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	83	Resp	3160820
Ion Ratio	100	Lower	Upper
131	9.8	4.8	14.4
85	65.1	32.4	97.2

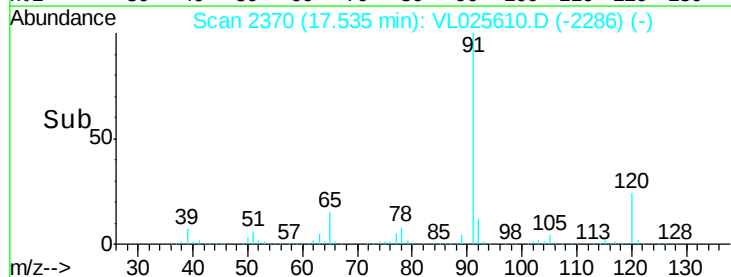
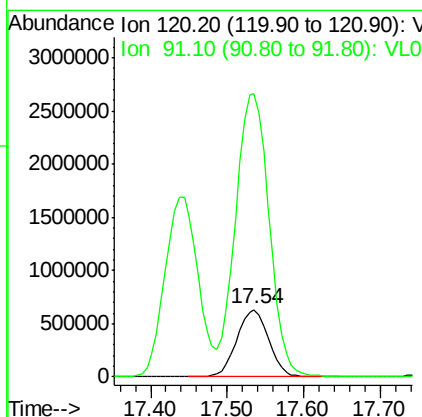
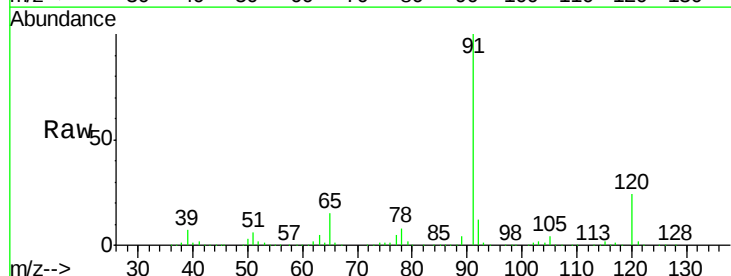
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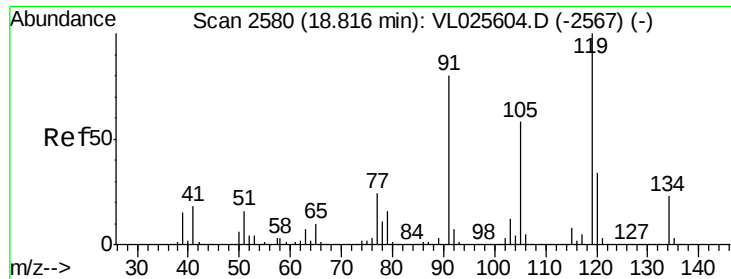
sam
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#64
n-propylbenzene
Concen: 15.55 ppbv
RT: 17.54 min Scan# 2370
Delta R.T. 0.01 min
Lab File: VL025610.D
Acq: 7 Jul 2015 14:34

Tgt Ion	120	Resp	1827624
Ion Ratio	100	Lower	Upper
91	443.6	370.5	555.7





#65

tert-Butylbenzene

Concen: 15.34 ppbv

RT: 18.83 min Scan# 2582

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 6331011

Ion Ratio Lower Upper

119 100

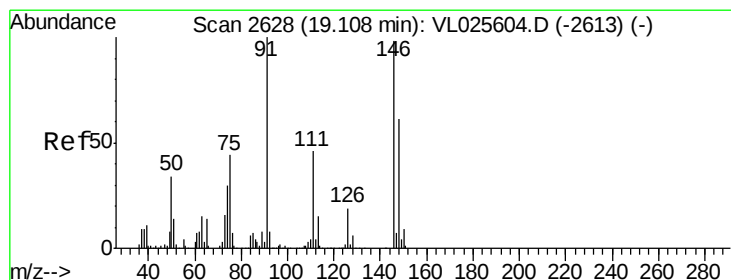
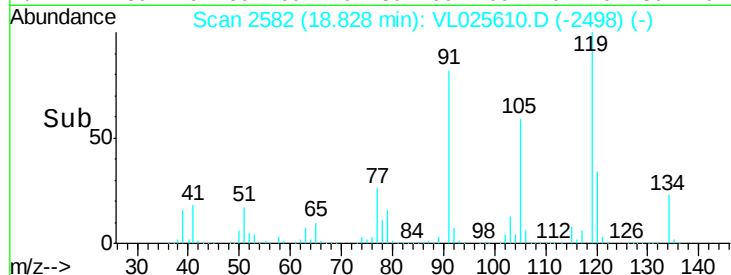
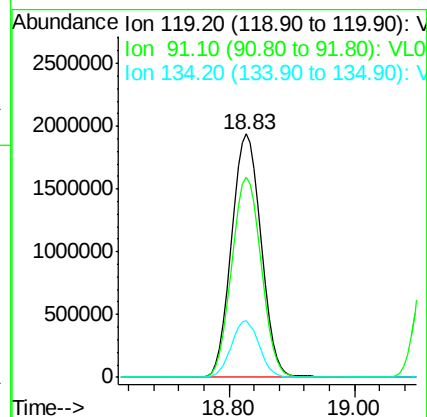
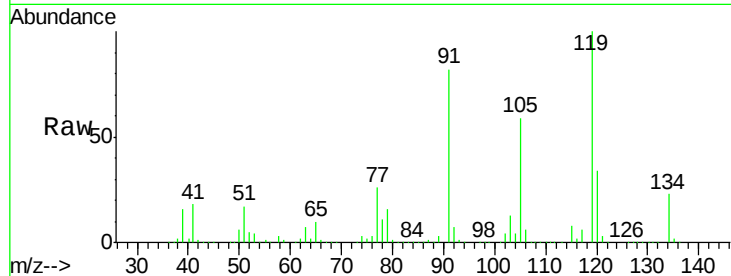
91 82.1 64.5 96.7

134 22.0 17.4 26.0

Manual Integrations
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#66

Benzyl Chloride

Concen: 19.94 ppbv

RT: 19.11 min Scan# 2629

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

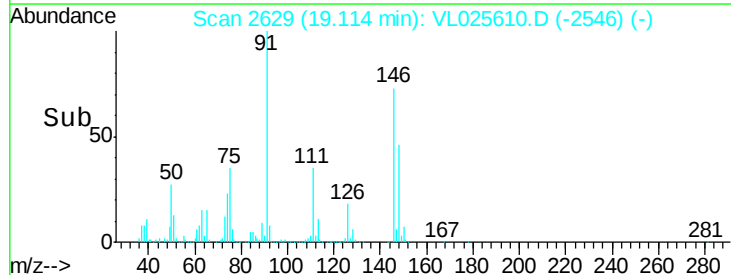
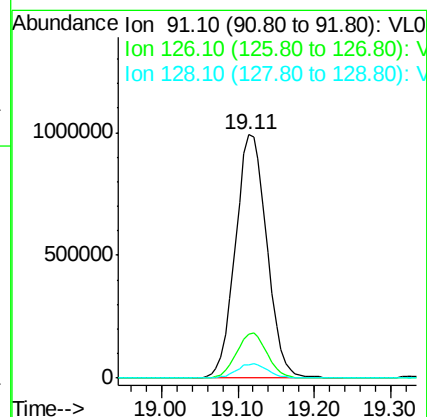
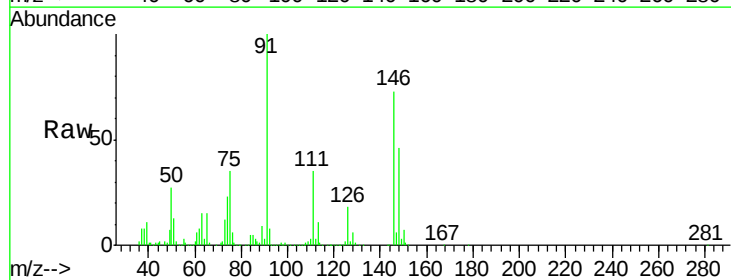
Tgt Ion: 91 Resp: 2815202

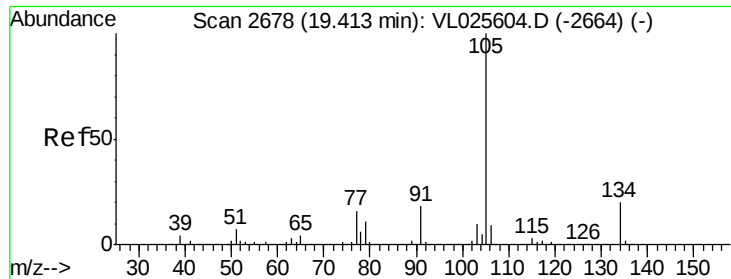
Ion Ratio Lower Upper

91 100

126 18.3 14.5 21.7

128 5.9 4.6 7.0





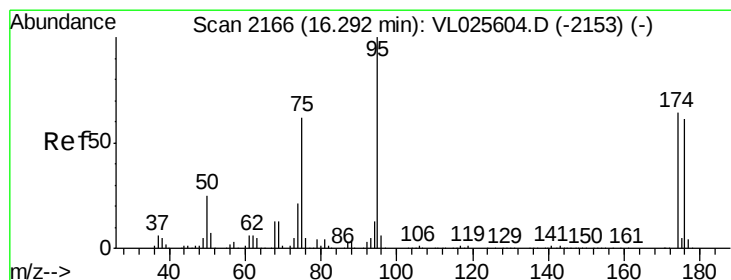
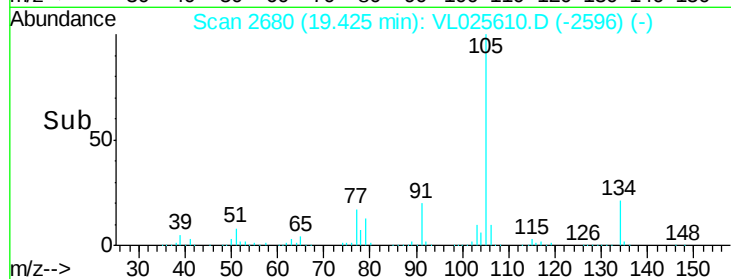
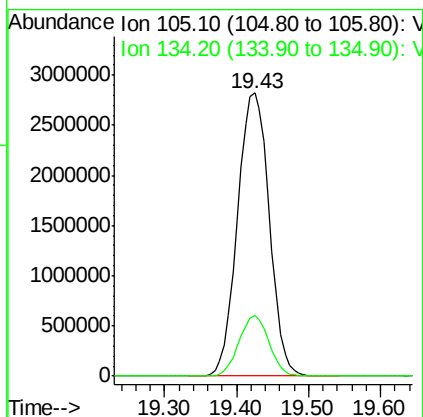
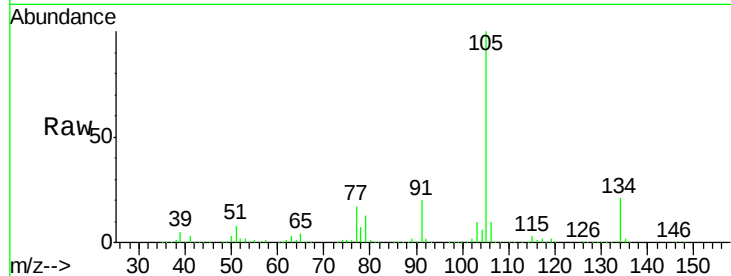
#67
 sec-Butylbenzene
 Concen: 14.90 ppbv
 RT: 19.43 min Scan# 2680
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 8645652
 Ion Ratio Lower Upper
 105 100
 134 20.2 15.4 23.2

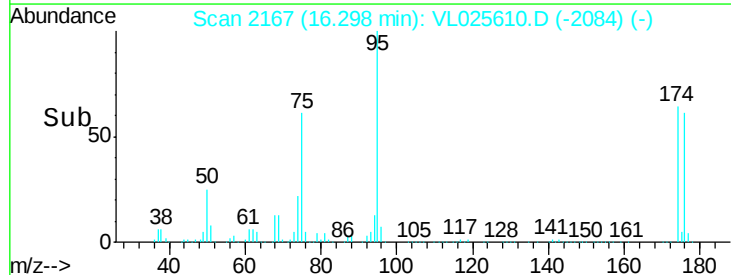
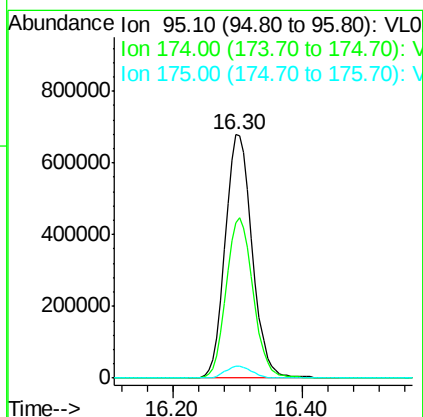
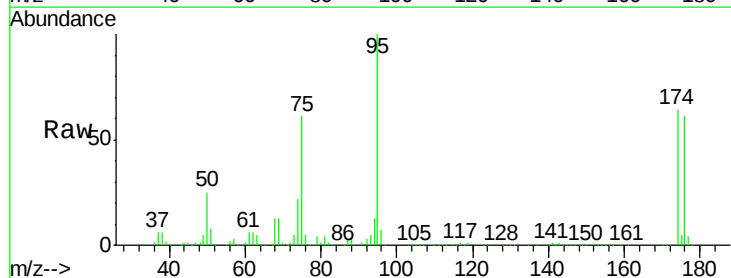
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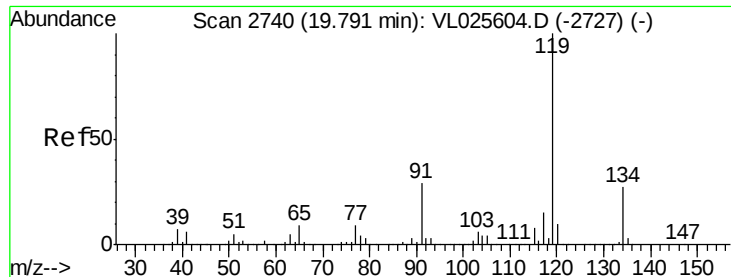
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.19 ppbv
 RT: 16.30 min Scan# 2167
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion: 95 Resp: 2005648
 Ion Ratio Lower Upper
 95 100
 174 65.8 52.0 78.0
 175 5.0 3.9 5.9





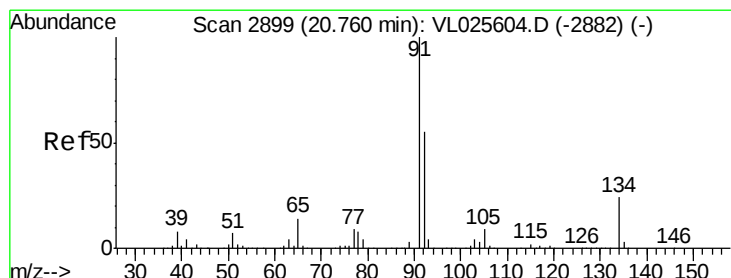
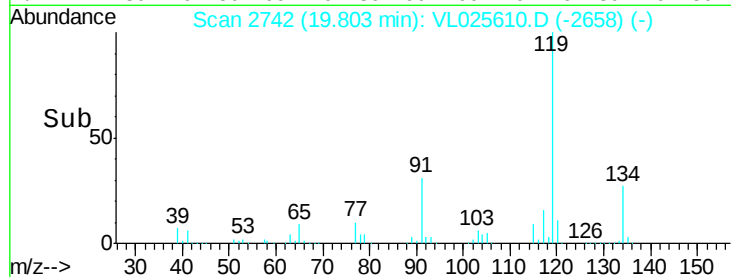
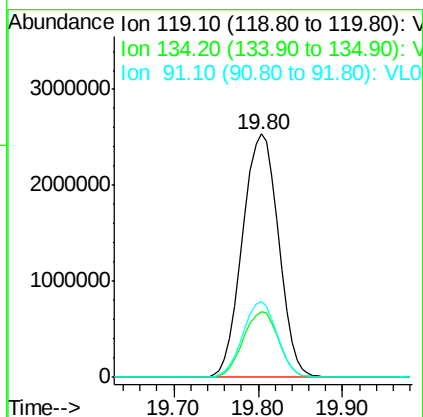
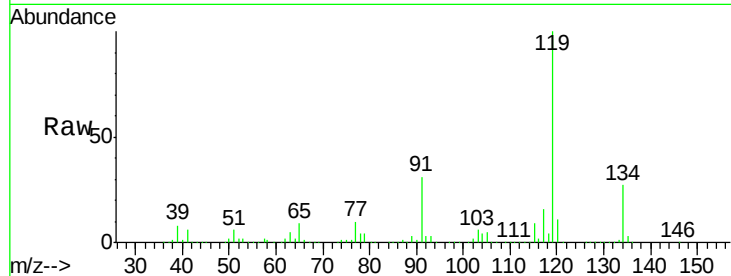
#69
 p-Isopropyltoluene
 Concen: 15.68 ppbv
 RT: 19.80 min Scan# 2742
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 7397326
 Ion Ratio Lower Upper
 119 100
 134 26.5 20.7 31.1
 91 29.6 22.6 34.0

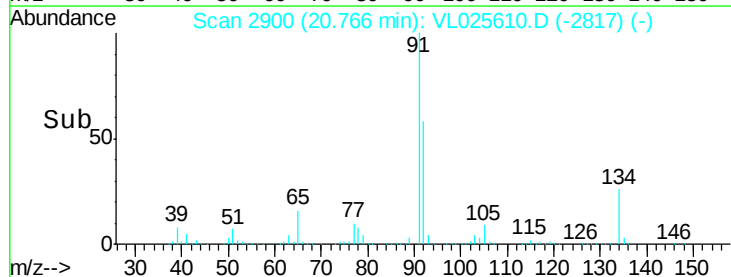
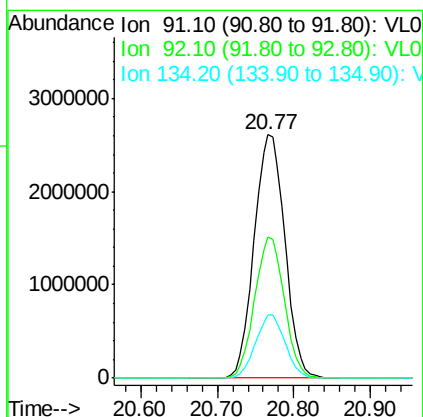
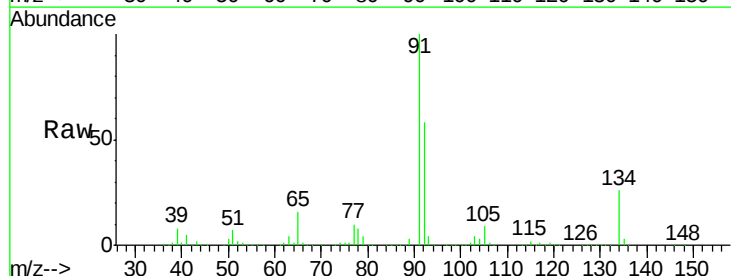
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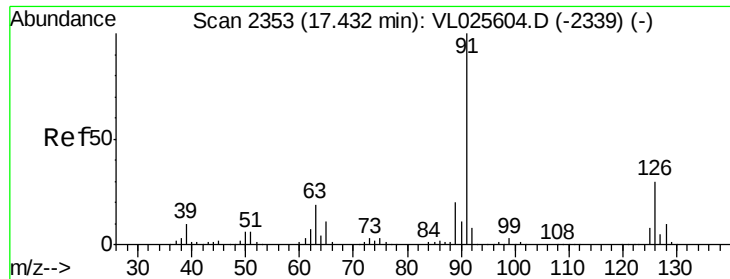
sam
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#70
 n-Butylbenzene
 Concen: 15.90 ppbv
 RT: 20.77 min Scan# 2900
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion: 91 Resp: 7300780
 Ion Ratio Lower Upper
 91 100
 92 56.1 44.3 66.5
 134 25.0 19.4 29.2





#71

2-Chlorotoluene

Concen: 15.55 ppbv

RT: 17.44 min Scan# 2354

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5135410

Ion Ratio Lower Upper

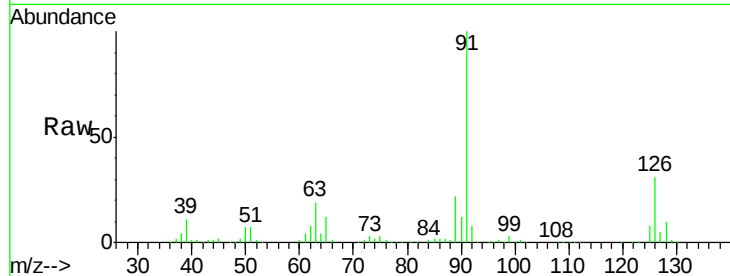
91 100

126 30.9 12.2 49.0

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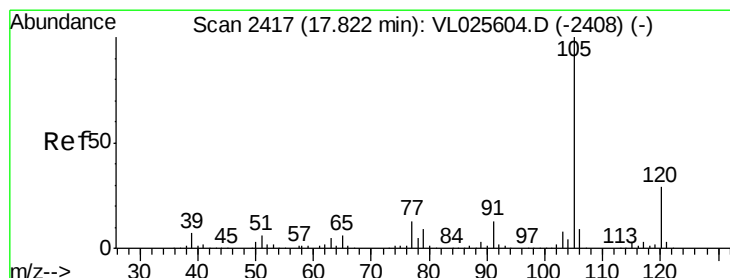
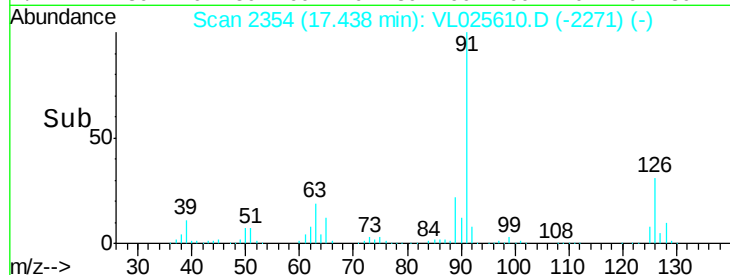
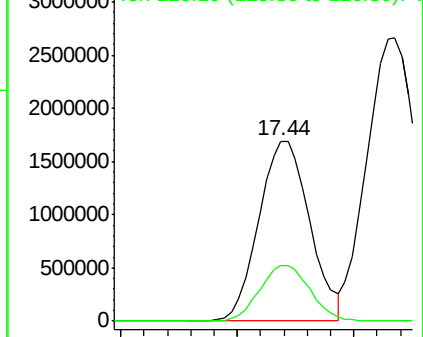
sam

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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: 15.95 ppbv

RT: 17.83 min Scan# 2419

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion: 105 Resp: 5878379

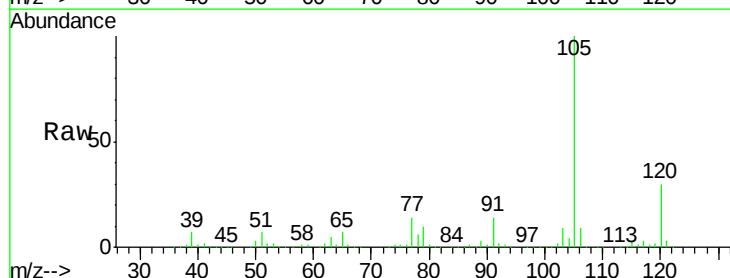
Ion Ratio Lower Upper

105 100

120 30.0 23.9 35.9

91 13.7 10.3 15.5

77 14.1 10.9 16.3

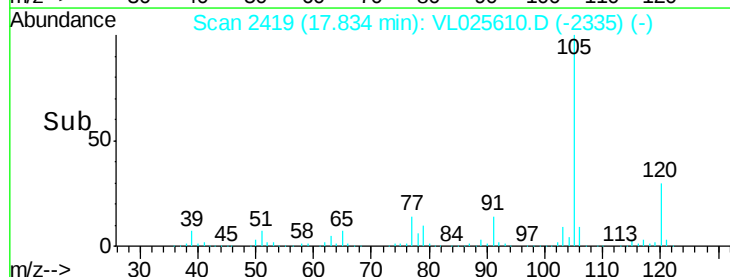
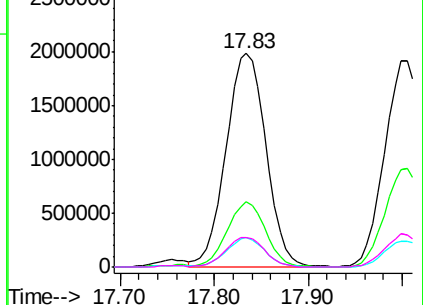


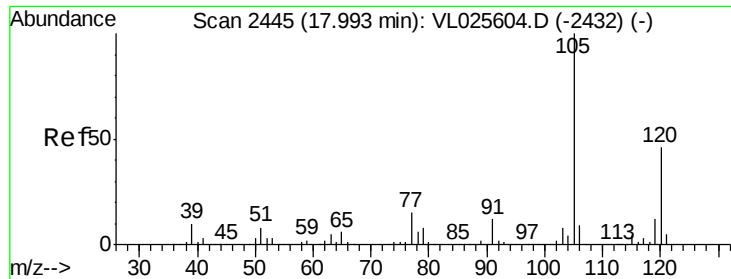
Abundance Ion 105.10 (104.80 to 105.80): V

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: 15.88 ppbv

RT: 18.00 min Scan# 2447

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5634729

Ion Ratio Lower Upper

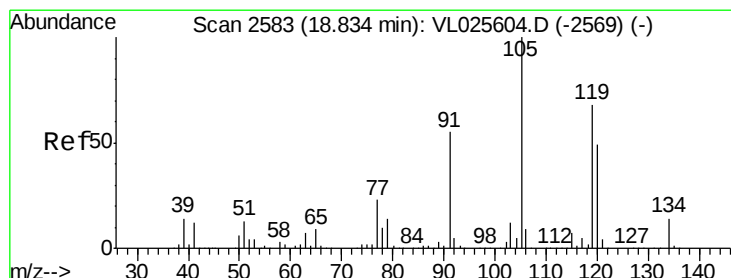
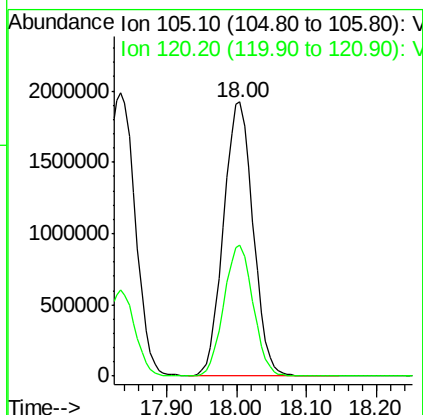
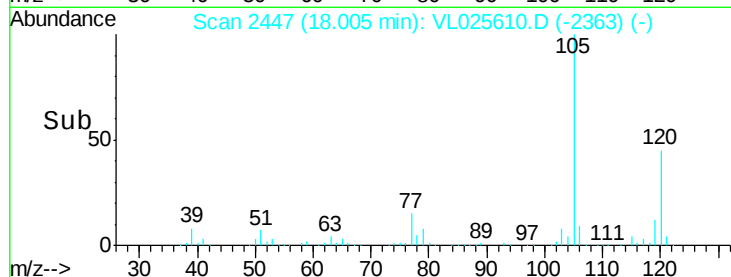
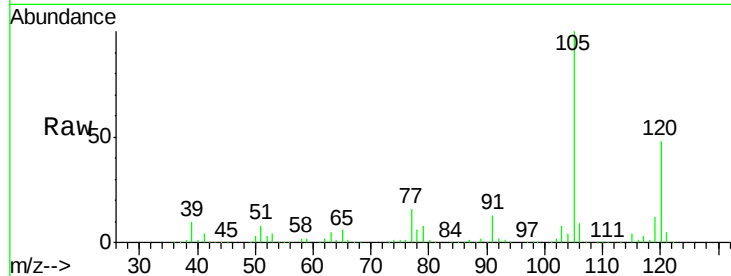
105 100

120 47.9 37.0 55.4

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#74

1,2,4-Trimethylbenzene

Concen: 15.31 ppbv

RT: 18.85 min Scan# 2585

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Tgt Ion:105 Resp: 5859778

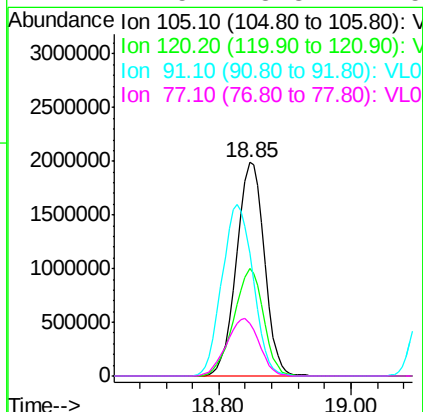
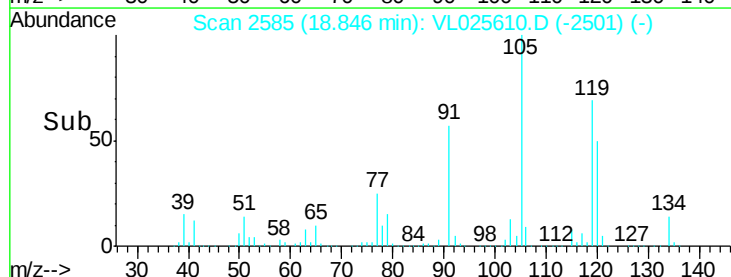
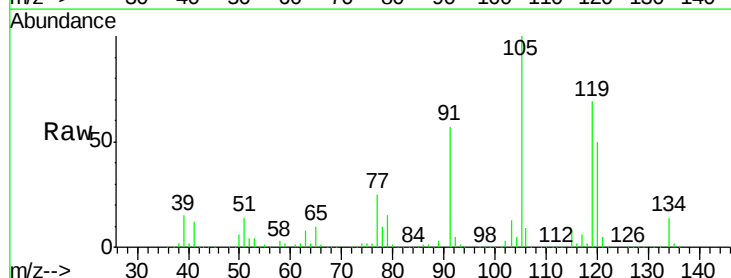
Ion Ratio Lower Upper

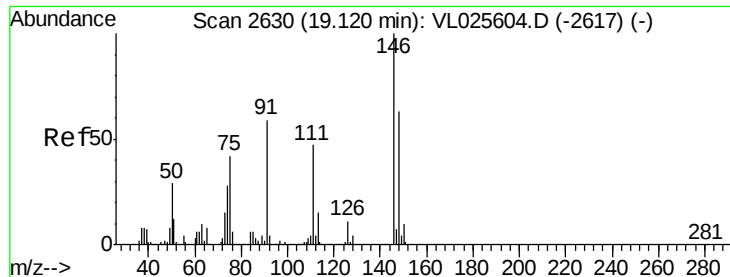
105 100

120 50.1 39.3 58.9

91 57.3 43.8 65.6

77 24.5 18.3 27.5





#75

1,3-Dichlorobenzene

Concen: 15.26 ppbv

RT: 19.13 min Scan# 2632

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3719167

Ion Ratio Lower Upper

146 100

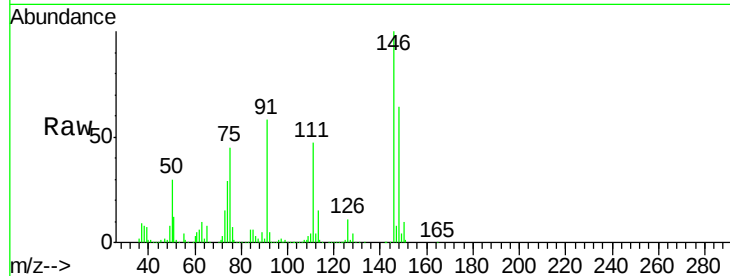
111 45.9 22.7 68.1

148 64.0 31.8 95.3

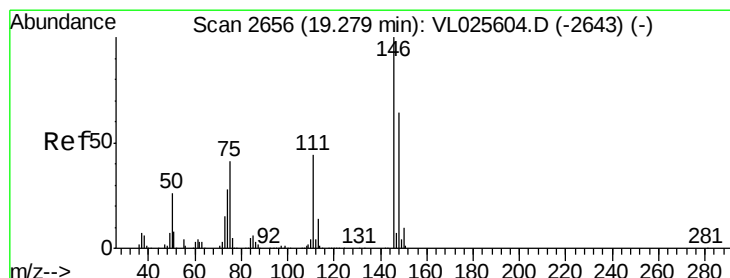
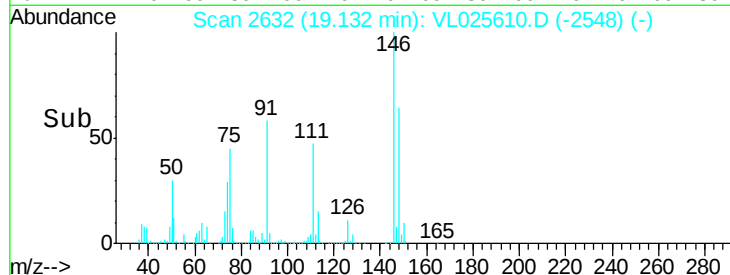
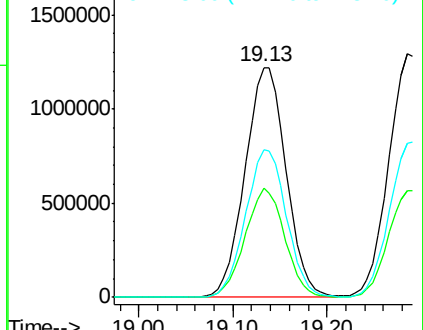
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 15.81 ppbv

RT: 19.28 min Scan# 2657

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

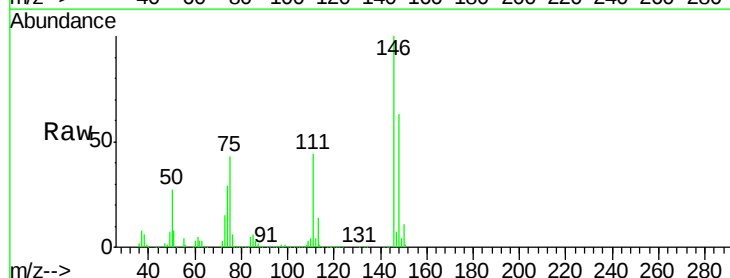
Tgt Ion:146 Resp: 3859092

Ion Ratio Lower Upper

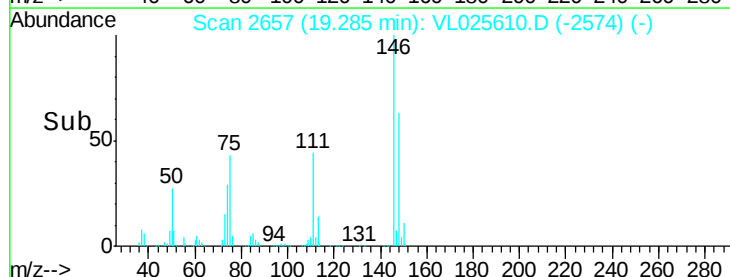
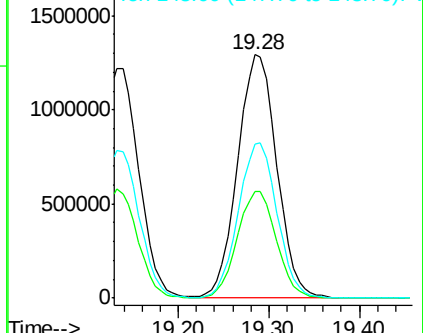
146 100

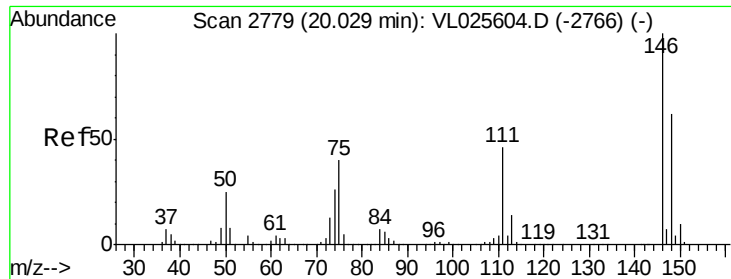
111 44.2 22.1 66.1

148 63.7 31.9 95.9



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





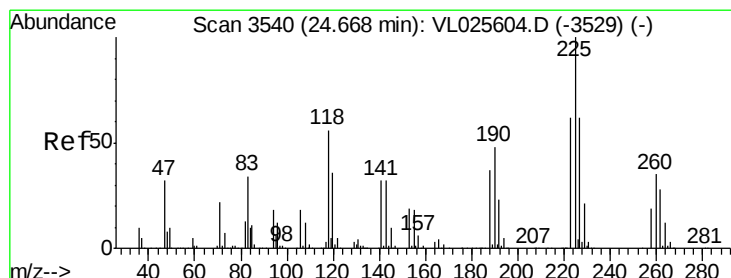
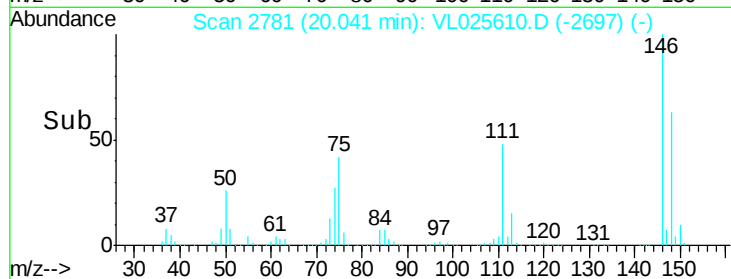
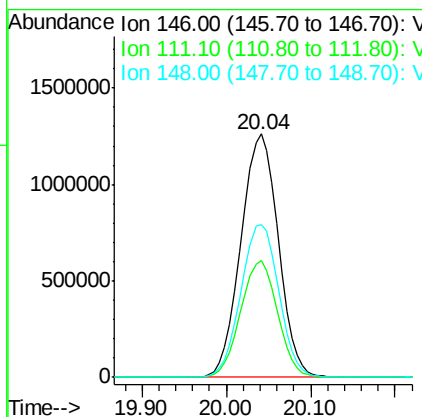
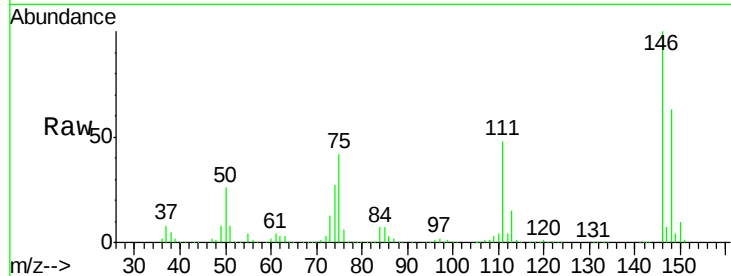
#77
 1,2-Dichlorobenzene
 Concen: 15.71 ppbv
 RT: 20.04 min Scan# 2781
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 3804162
 Ion Ratio Lower Upper
 146 100
 111 47.5 23.4 70.3
 148 64.0 31.6 94.8

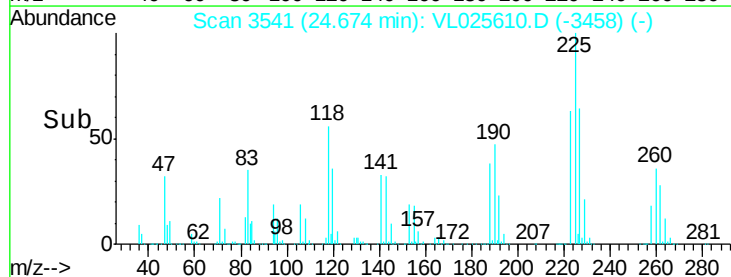
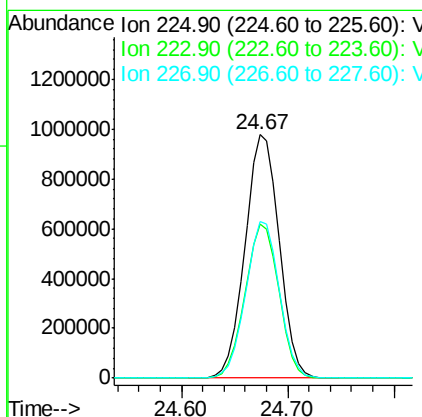
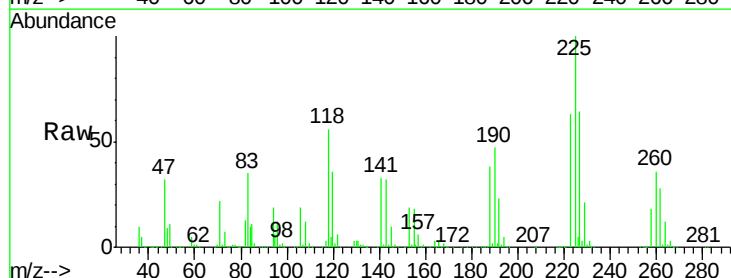
Manual Integrations
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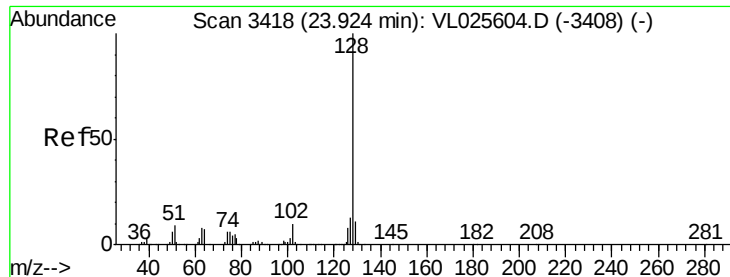
sam
 7/8/2015 11:04:36 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 17.77 ppbv
 RT: 24.67 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Tgt Ion:225 Resp: 2207047
 Ion Ratio Lower Upper
 225 100
 223 62.8 50.6 76.0
 227 63.5 50.5 75.7





#79

Naphthalene

Concen: 18.43 ppbv

RT: 23.94 min Scan# 3420

Delta R.T. 0.01 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 5776431

Ion Ratio Lower Upper

128 100

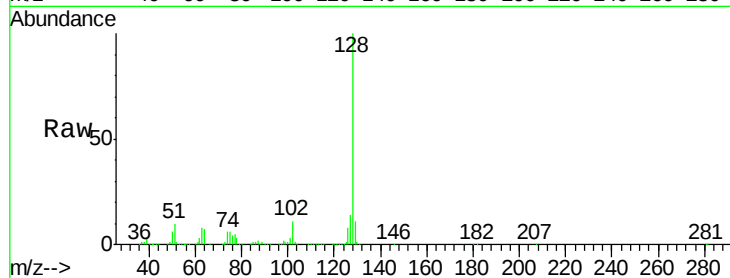
127 14.2 10.8 16.2

129 11.4 9.0 13.4

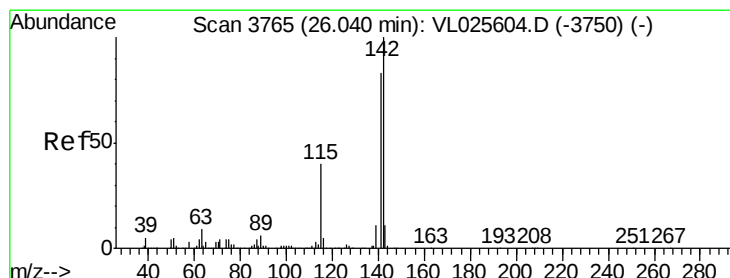
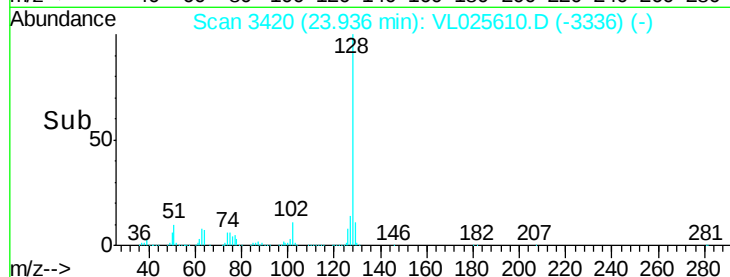
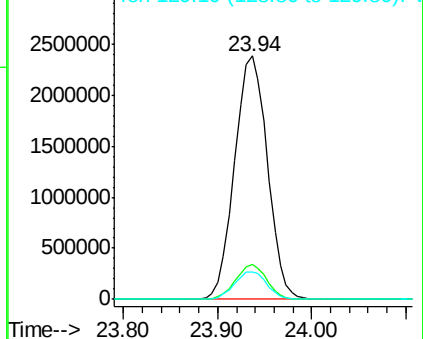
Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 20.83 ppbv

RT: 26.04 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VL025610.D

Acq: 7 Jul 2015 14:34

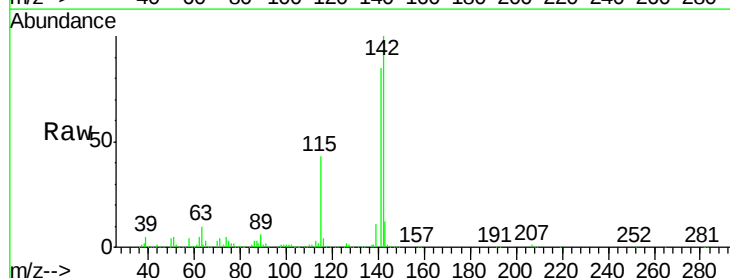
Tgt Ion:142 Resp: 1674829

Ion Ratio Lower Upper

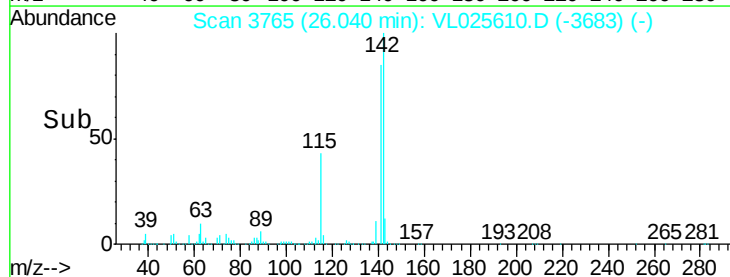
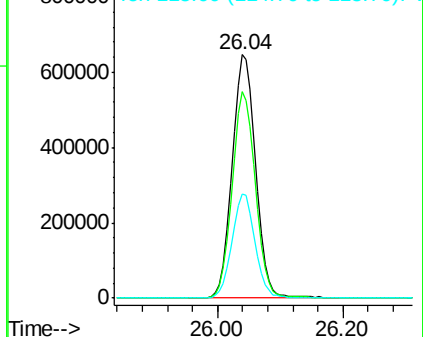
142 100

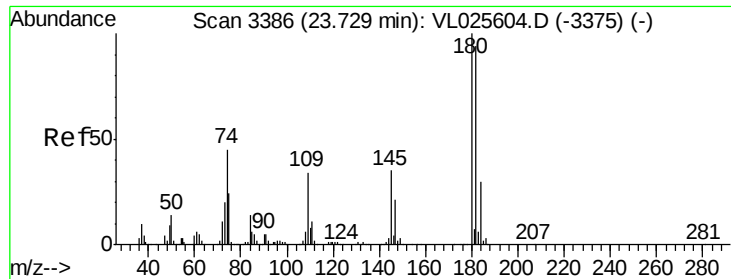
141 84.6 67.1 100.7

115 42.3 33.9 50.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 18.79 ppbv
 RT: 23.74 min Scan# 3387
 Delta R.T. 0.01 min
 Lab File: VL025610.D
 Acq: 7 Jul 2015 14:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
184	30.6	24.4	36.6

Manual Integrations
 APPROVED

sam
 7/8/2015 11:04:36 AM

