

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL011216\
 Data File : VL026682.D
 Acq On : 12 Jan 2016 19:56
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
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Quant Time: Jan 13 06:04:19 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 13 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.69	49	854836	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	8.37	114	2566272	10.00	ppbv	0.06
55) Chlorobenzene-d5	13.79	117	3105202m	10.00	ppbv	0.07

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	2659622	10.75	ppbv	0.07
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.67	85	2384506	10.49	ppbv	97
3) Chlorodifluoromethane	3.60	51	1126766	9.90	ppbv	100
4) Chloromethane	3.78	50	563628	10.13	ppbv	99
5) Vinyl Chloride	3.92	62	647287	9.60	ppbv	99
6) Bromomethane	4.17	94	495220	10.31	ppbv	100
7) Chloroethane	4.27	64	292492	10.73	ppbv	96
8) Dichlorotetrafluoroethane	3.83	85	1813715	10.15	ppbv	98
9) Propene	3.62	41	423123	10.34	ppbv	99
10) Heptane	9.40	43	1599452	10.49	ppbv	97
11) Trichlorofluoromethane	4.73	101	2381527	10.11	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.34	101	1480687	10.23	ppbv	100
13) Ethanol	4.36	45	71597	9.21	ppbv	98
14) Bromoethene	4.48	108	555006	10.64	ppbv	99
15) Acetone	4.63	43	1312272	9.33	ppbv	100
16) 1,3-Butadiene	4.00	39	590762	10.52	ppbv	97
17) tert-Butyl alcohol	5.16	59	1016499	9.59	ppbv	94
18) 1,1-Dichloroethene	5.12	96	635783	10.53	ppbv	95
19) Isopropyl Alcohol	4.78	45	621541	10.72	ppbv	100
20) Methylene Chloride	5.18	84	581477	10.08	ppbv	96
21) Allyl Chloride	5.26	41	909007	10.54	ppbv	97
22) trans-1,2-Dichloroethene	5.80	96	716535	10.39	ppbv	98
23) Vinyl Acetate	6.02	43	2343167	10.85	ppbv	99
24) 1,1-Dichloroethane	5.95	63	1570531	10.09	ppbv	99
25) Ethyl Acetate	6.71	43	2349351	10.82	ppbv	100
26) Hexane	6.70	57	1170229	10.43	ppbv	100
27) Carbon Disulfide	5.42	76	1814984	10.88	ppbv	100
28) Methyl tert-Butyl Ether	5.99	73	2366918	10.61	ppbv	100
29) Chloroform	6.79	83	2077687	10.20	ppbv	100
30) Cyclohexane	8.32	84	1183350	10.68	ppbv	99
31) cis-1,2-Dichloroethene	6.56	61	1214093	10.73	ppbv	98
32) 1,1,1-Trichloroethane	7.63	97	2245914	9.76	ppbv	99
34) 2-Butanone	6.24	43	1396837	10.21	ppbv	100
35) Carbon Tetrachloride	8.20	117	2212177	9.80	ppbv	100
36) Benzene	8.07	78	2669555	10.11	ppbv	99
37) 1,2-Dichloroethane	7.42	62	1852216	10.26	ppbv	100
38) Trichloroethene	9.10	130	1032129	8.76	ppbv	98
39) 1,2-Dichloropropane	8.87	63	923998	10.12	ppbv	97
40) 1,4-Dioxane	9.16	88	258955	12.34	ppbv	67
41) Tetrahydrofuran	7.16	42	757883	11.19	ppbv	97
42) Bromodichloromethane	9.07	83	2396464	10.27	ppbv	99
43) Methyl Methacrylate	9.31	69	1059303	10.98	ppbv	98

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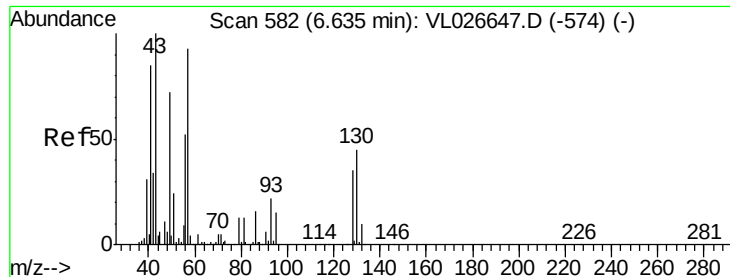
Manual Integrations
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Quant Time: Jan 13 06:04:19 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 13 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	4292467	10.07	ppbv	99
45) t-1,3-Dichloropropene	10.70	75	1793193	11.48	ppbv	98
46) cis-1,3-Dichloropropene	10.06	75	1992202	11.22	ppbv	98
47) 1,1,2-Trichloroethane	10.93	97	1278559	9.82	ppbv	96
48) Dibromochloromethane	11.85	129	2047831	10.49	ppbv	100
49) Bromoform	14.87	173	1680939	10.55	ppbv	99
50) 4-Methyl-2-Pentanone	10.13	43	2107560	10.96	ppbv	99
51) 2-Hexanone	11.66	43	2039474	11.51	ppbv	98
52) Tetrachloroethene	12.84	164	1171939	8.88	ppbv	98
53) Toluene	11.28	91	3832478	10.30	ppbv	100
54) 1,2-Dibromoethane	12.19	107	2024606	9.83	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.83	131	1533003	10.73	ppbv	98
57) Chlorobenzene	13.86	112	3160312	9.88	ppbv	99
58) Ethyl Benzene	14.46	91	6052254	10.91	ppbv	99
59) m/p-Xylene	14.76	91	9329271	20.41	ppbv	100
60) o-Xylene	15.54	91	4804259	9.73	ppbv	100
61) Styrene	15.36	104	2265582	11.74	ppbv	100
62) Isopropylbenzene	16.59	105	6702054	10.25	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.54	83	3034477	8.24	ppbv	99
64) n-propylbenzene	17.57	120	1753340	10.00	ppbv	99
65) tert-Butylbenzene	18.86	119	5542444	9.25	ppbv	100
66) Benzyl Chloride	19.15	91	2390393	11.16	ppbv	100
67) sec-Butylbenzene	19.46	105	8508226	9.57	ppbv	100
69) p-Isopropyltoluene	19.83	119	6690544	9.84	ppbv	100
70) n-Butylbenzene	20.80	91	6967155	9.84	ppbv	100
71) 2-Chlorotoluene	17.47	91	5314368	10.43	ppbv	99
72) 4-Ethyltoluene	17.86	105	5730241	10.38	ppbv	100
73) 1,3,5-Trimethylbenzene	18.04	105	5290718	10.11	ppbv	100
74) 1,2,4-Trimethylbenzene	18.88	105	5091304	9.16	ppbv	97
75) 1,3-Dichlorobenzene	19.17	146	3142428	9.15	ppbv	100
76) 1,4-Dichlorobenzene	19.32	146	3282325	9.32	ppbv	99
77) 1,2-Dichlorobenzene	20.07	146	3258560	9.35	ppbv	99
78) Hexachloro-1,3-Butadiene	24.71	225	1293936	9.10	ppbv	99
79) Naphthalene	23.97	128	3708333	9.89	ppbv	99
80) Naphthalene, 2-methyl-	26.08	142	668191	11.47	ppbv	99
81) 1,2,4-Trichlorobenzene	23.77	180	1653672	9.68	ppbv	98

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.69 min Scan# 591

Delta R.T. 0.05 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 854836

Ion Ratio Lower Upper

49 100

128 53.5 25.9 77.7

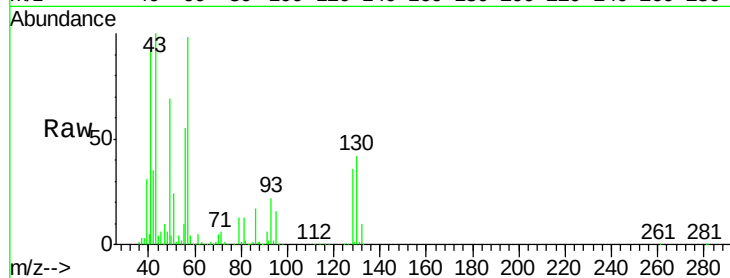
130 66.5 33.6 100.8

Manual Integrations

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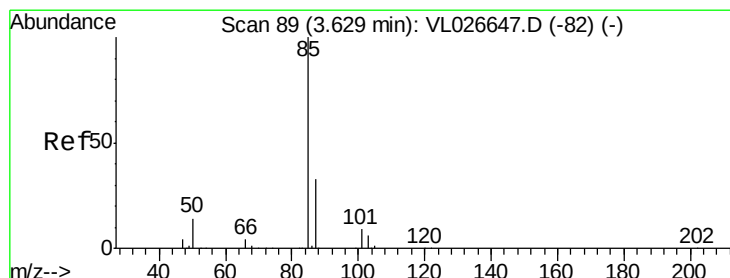
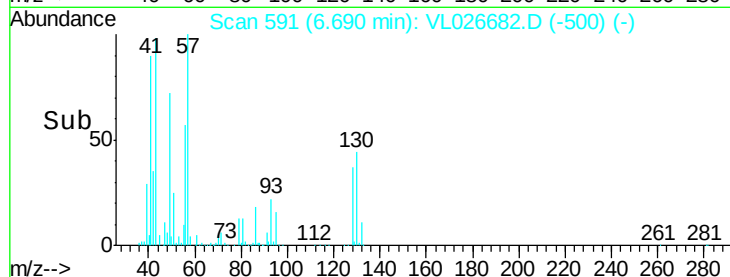
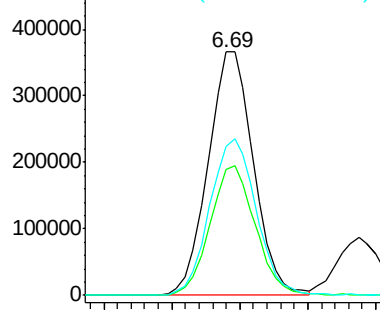
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.49 ppbv

RT: 3.67 min Scan# 95

Delta R.T. 0.04 min

Lab File: VL026682.D

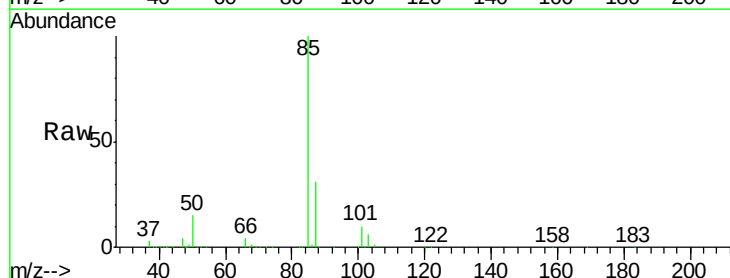
Acq: 12 Jan 2016 19:56

Tgt Ion: 85 Resp: 2384506

Ion Ratio Lower Upper

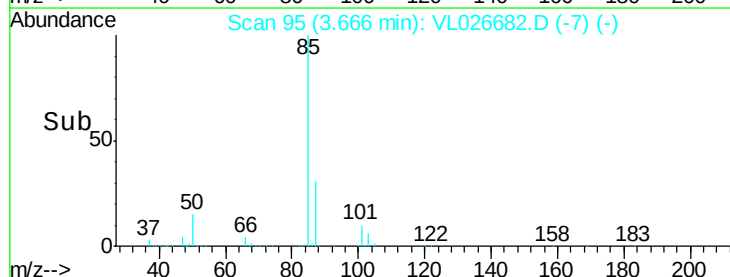
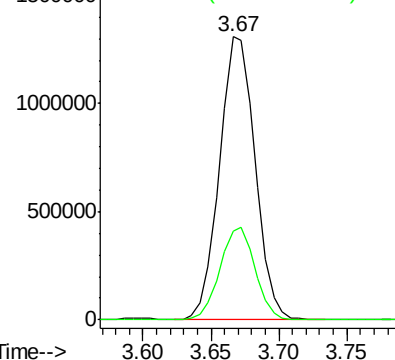
85 100

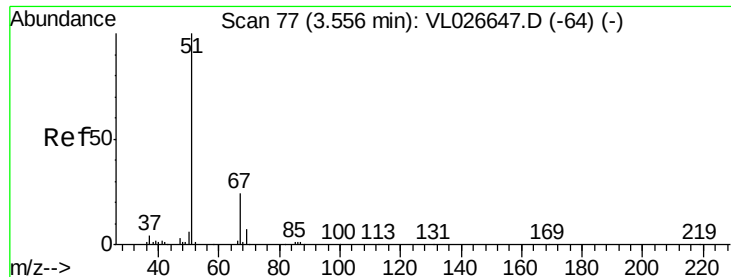
87 31.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.90 ppbv

RT: 3.60 min Scan# 84

Delta R.T. 0.04 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1126766

Ion Ratio Lower Upper

51 100

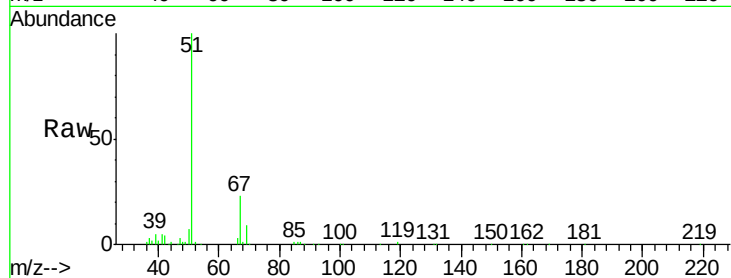
67 23.4 18.6 28.0

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

600000

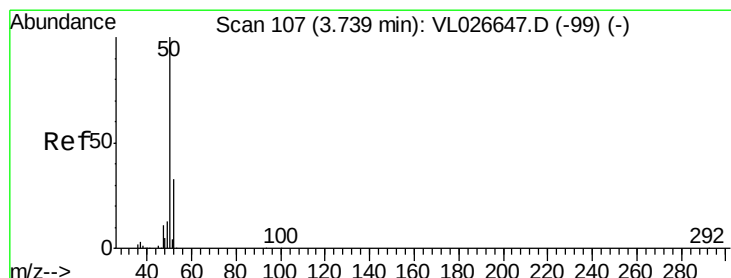
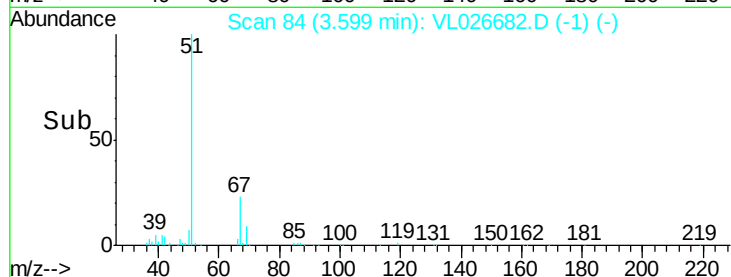
400000

200000

0

3.40 3.50 3.60 3.70

Time-->



#4

Chloromethane

Concen: 10.13 ppbv

RT: 3.78 min Scan# 113

Delta R.T. 0.04 min

Lab File: VL026682.D

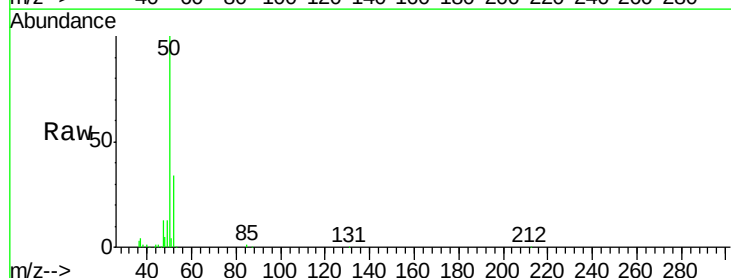
Acq: 12 Jan 2016 19:56

Tgt Ion: 50 Resp: 563628

Ion Ratio Lower Upper

50 100

52 33.9 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

300000

250000

200000

150000

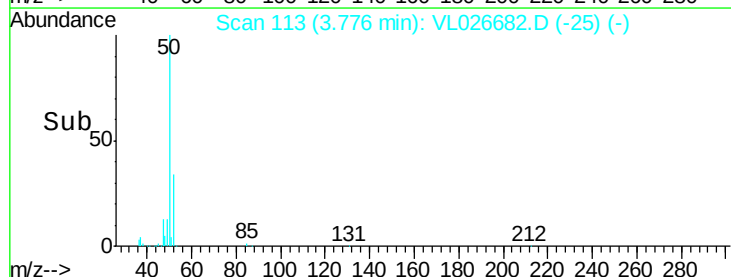
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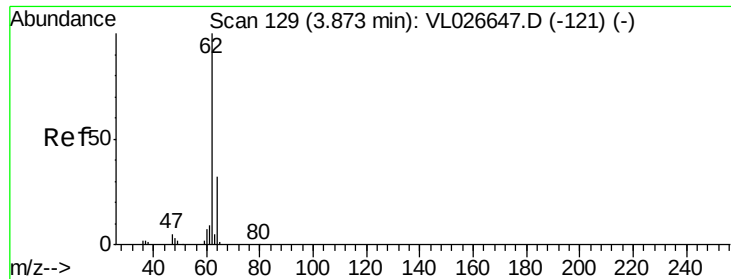
50000

0

3.70 3.75 3.80

Time-->





#5

Vinyl Chloride

Concen: 9.60 ppbv

RT: 3.92 min Scan# 136

Delta R.T. 0.04 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 647287

Ion Ratio Lower Upper

62 100

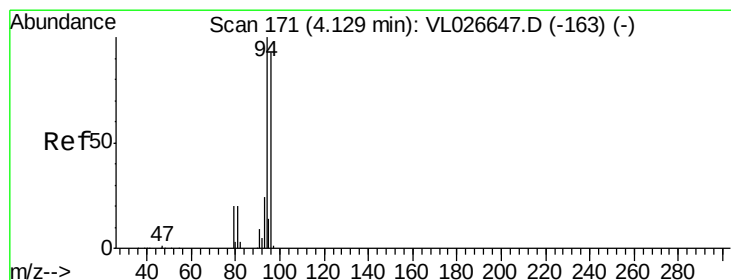
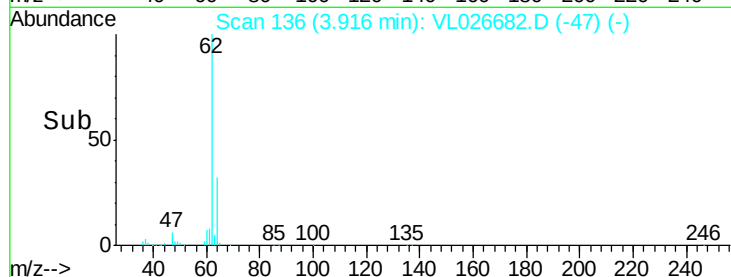
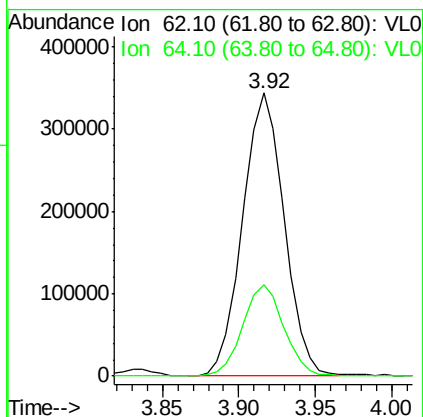
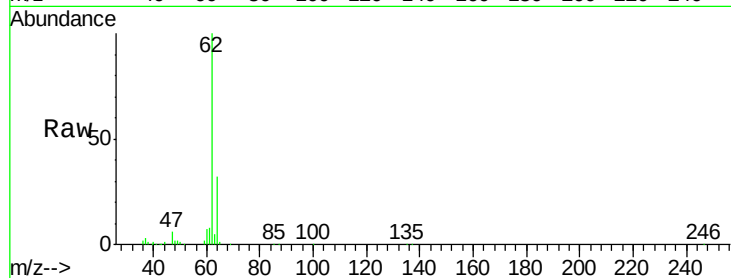
64 32.5 25.6 38.4

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#6

Bromomethane

Concen: 10.31 ppbv

RT: 4.17 min Scan# 178

Delta R.T. 0.04 min

Lab File: VL026682.D

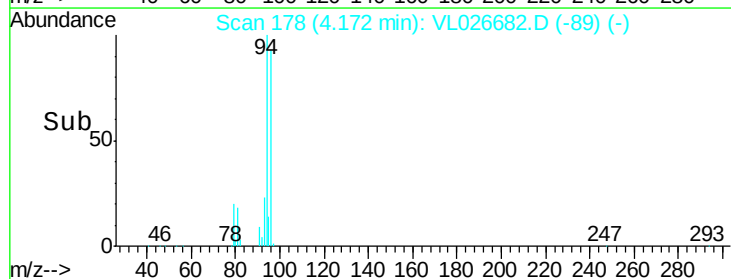
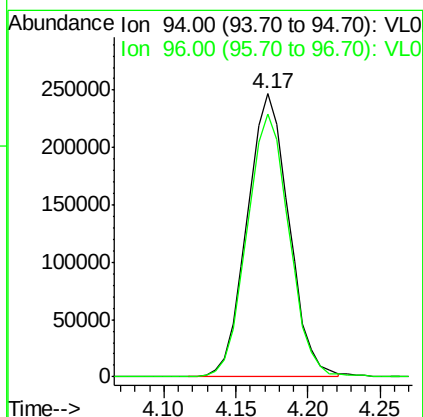
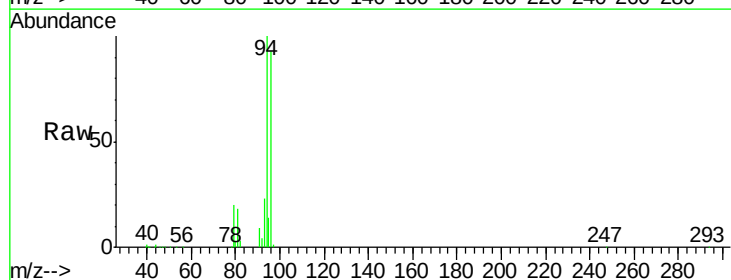
Acq: 12 Jan 2016 19:56

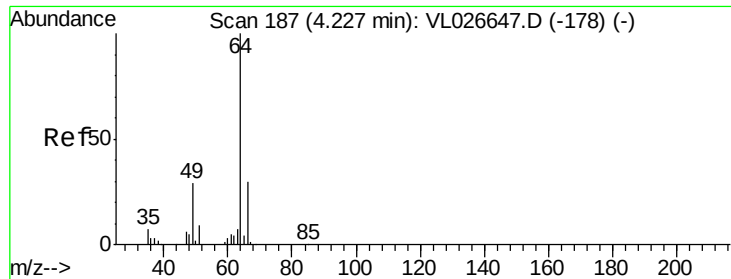
Tgt Ion: 94 Resp: 495220

Ion Ratio Lower Upper

94 100

96 92.9 74.6 112.0





#7

Chloroethane

Concen: 10.73 ppbv

RT: 4.27 min Scan# 194

Delta R.T. 0.04 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 292492

Ion Ratio Lower Upper

64 100

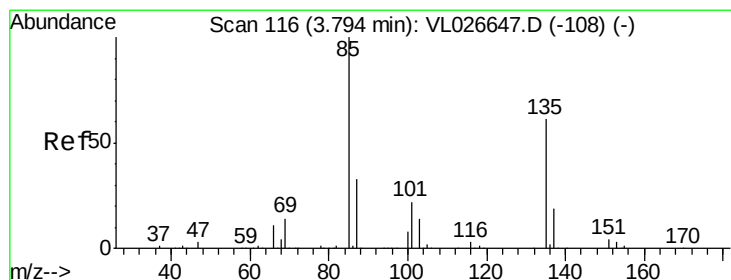
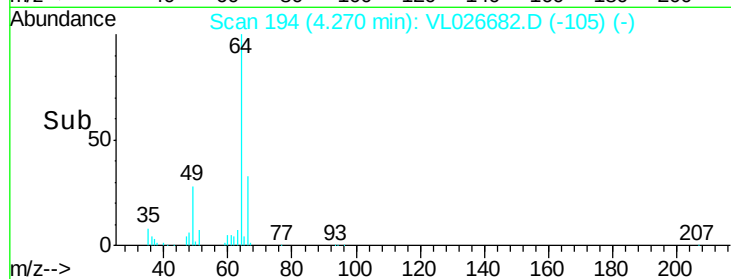
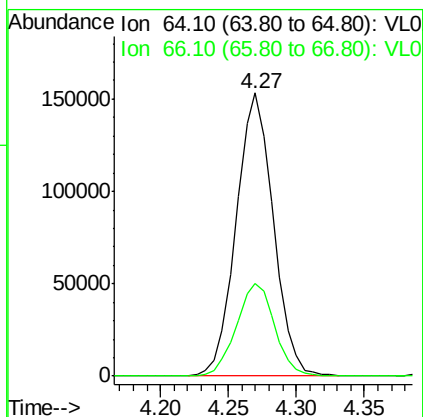
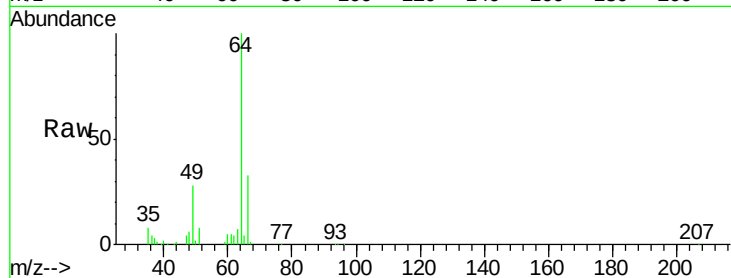
66 32.7 24.3 36.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.15 ppbv

RT: 3.83 min Scan# 122

Delta R.T. 0.04 min

Lab File: VL026682.D

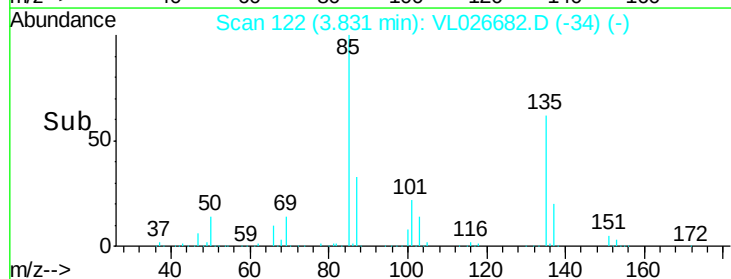
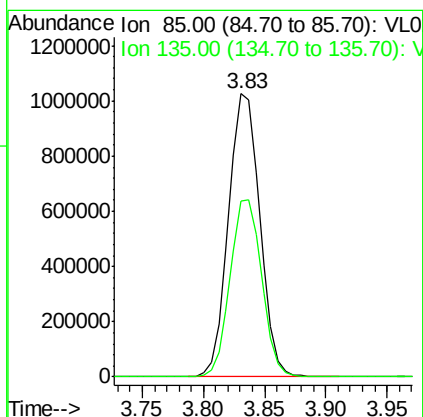
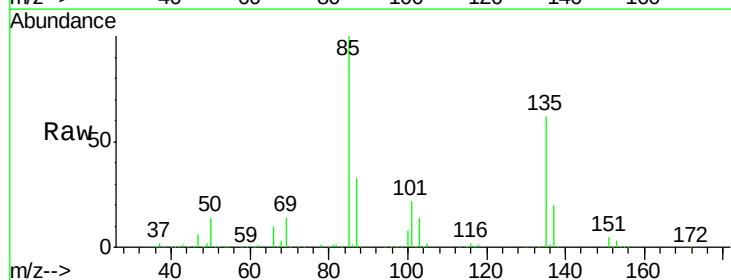
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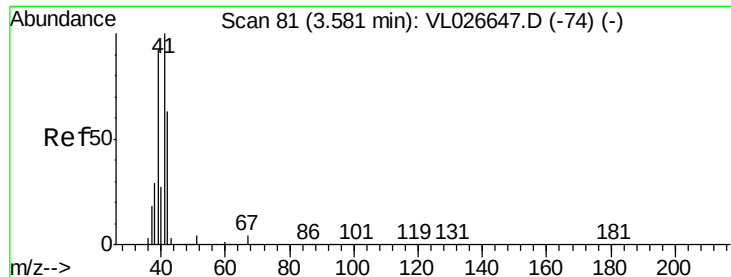
Tgt Ion: 85 Resp: 1813715

Ion Ratio Lower Upper

85 100

135 63.4 49.8 74.6





#9

Propene

Concen: 10.34 ppbv

RT: 3.62 min Scan# 88

Delta R.T. 0.04 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 423123

Ion Ratio Lower Upper

41 100

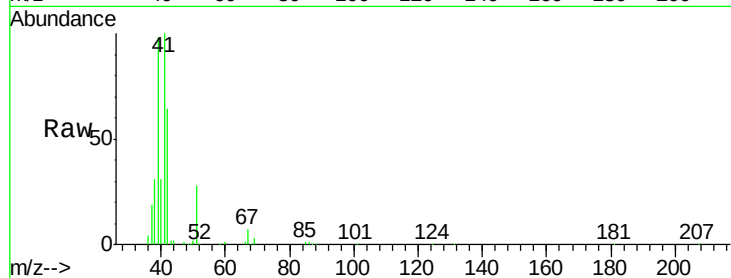
42 66.6 53.6 80.4

Manual Integrations

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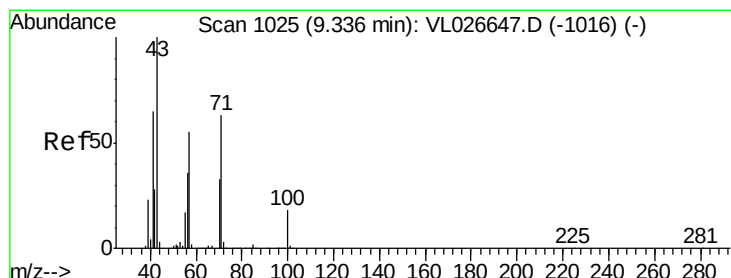
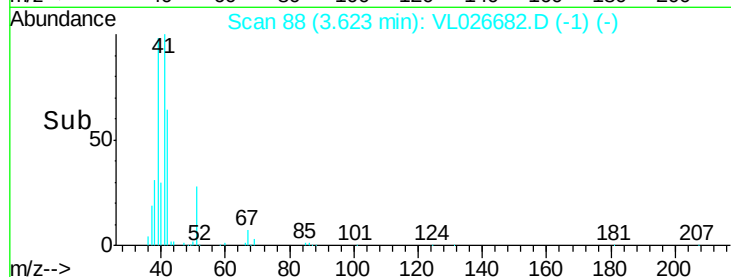
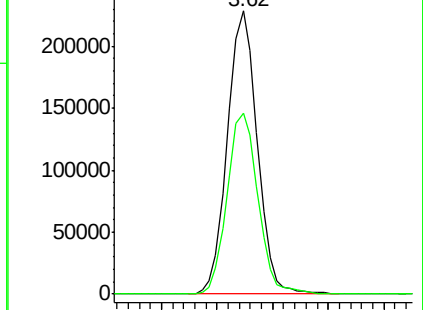
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.49 ppbv

RT: 9.40 min Scan# 1035

Delta R.T. 0.06 min

Lab File: VL026682.D

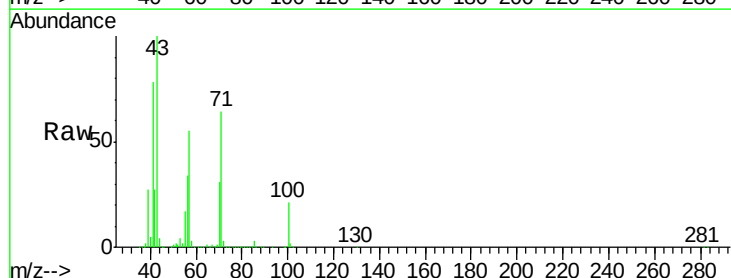
Acq: 12 Jan 2016 19:56

Tgt Ion: 43 Resp: 1599452

Ion Ratio Lower Upper

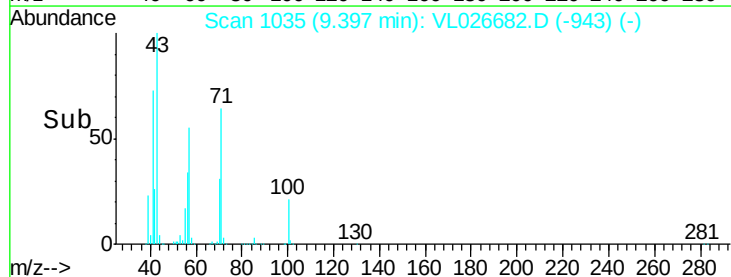
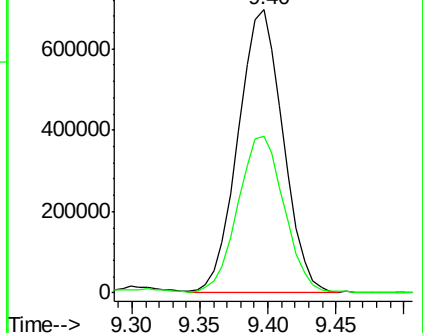
43 100

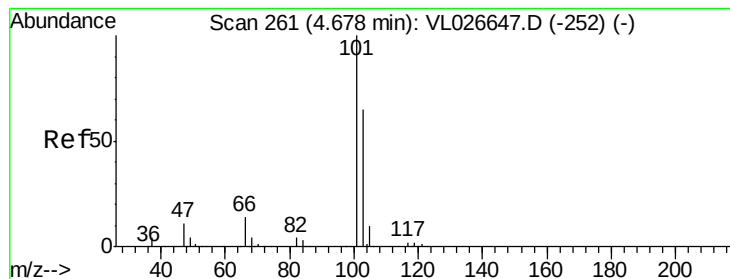
57 59.2 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 10.11 ppbv

RT: 4.73 min Scan# 269

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2381527

Ion Ratio Lower Upper

101 100

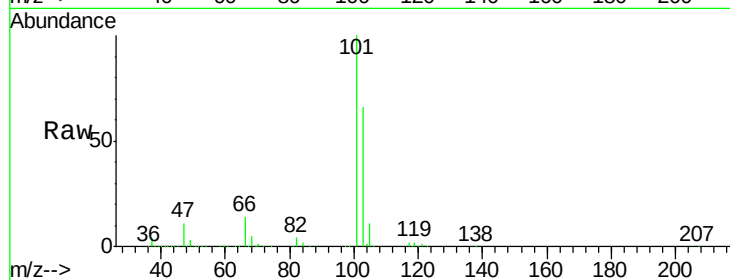
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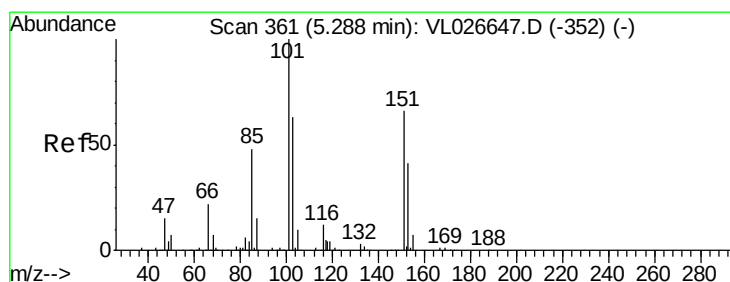
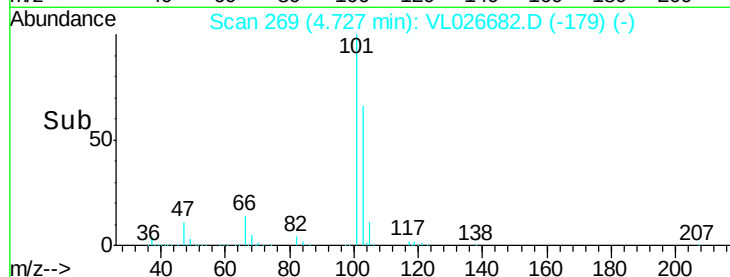
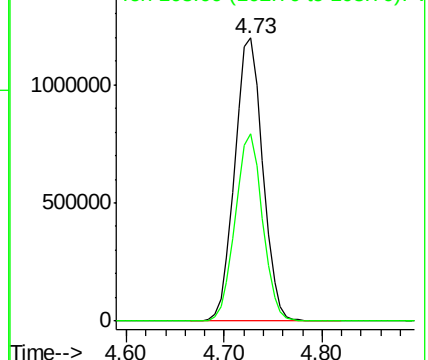
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.23 ppbv

RT: 5.34 min Scan# 369

Delta R.T. 0.05 min

Lab File: VL026682.D

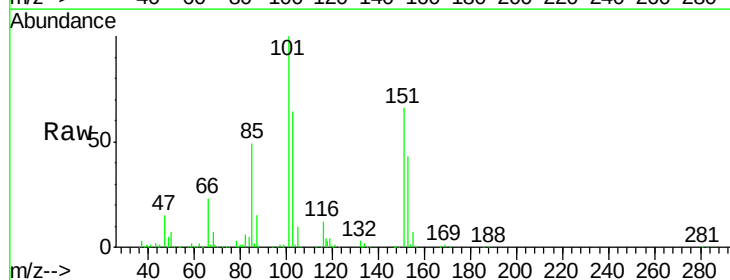
Acq: 12 Jan 2016 19:56

Tgt Ion:101 Resp: 1480687

Ion Ratio Lower Upper

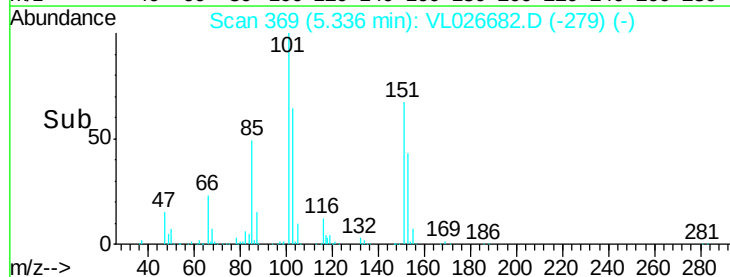
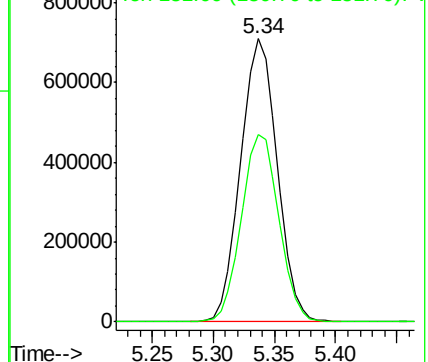
101 100

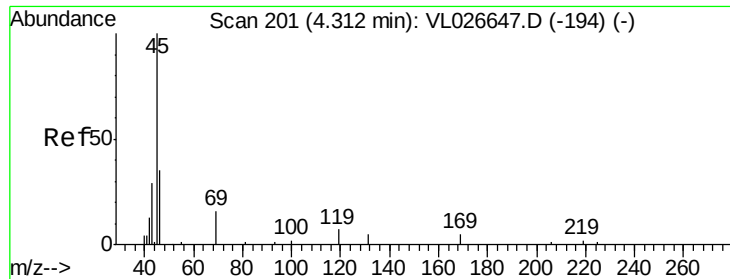
151 68.0 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 9.21 ppbv

RT: 4.36 min Scan# 209

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 71597

Ion Ratio Lower Upper

45 100

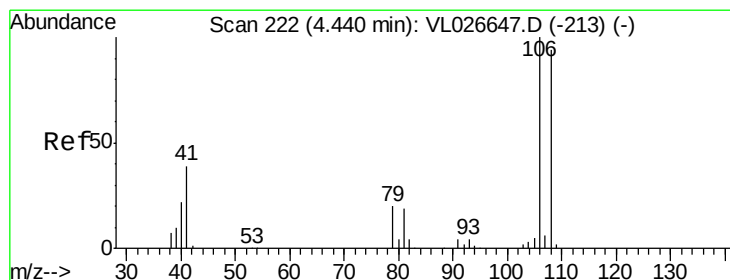
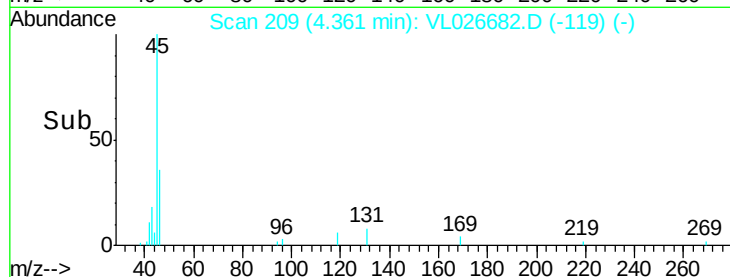
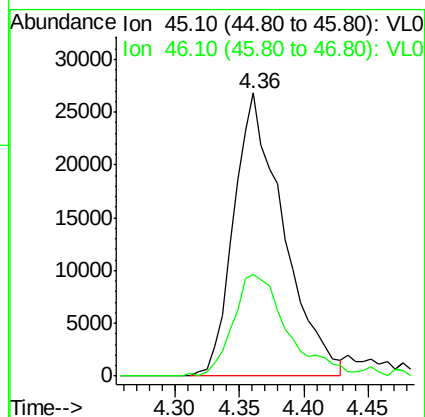
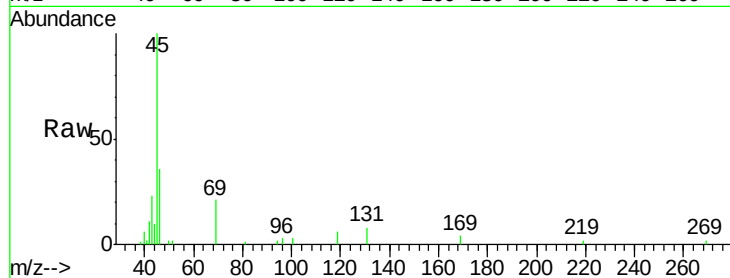
46 40.4 16.7 66.7

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#14

Bromoethene

Concen: 10.64 ppbv

RT: 4.48 min Scan# 229

Delta R.T. 0.04 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

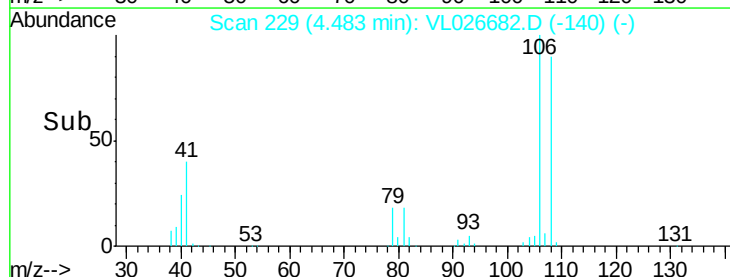
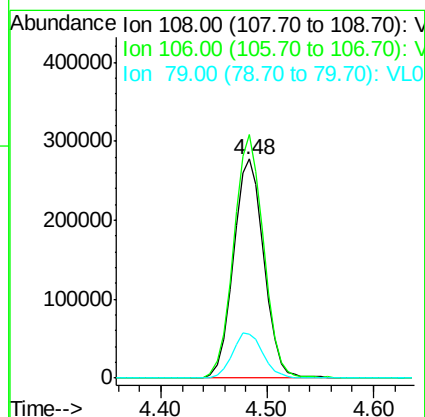
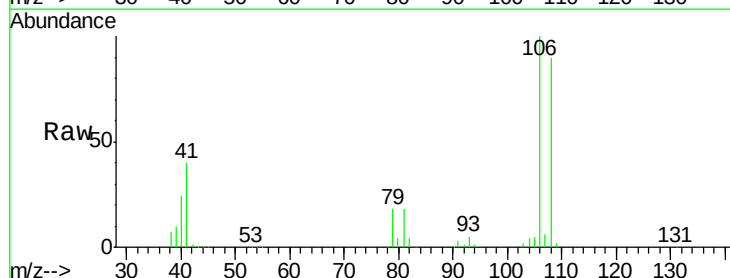
Tgt Ion: 108 Resp: 555006

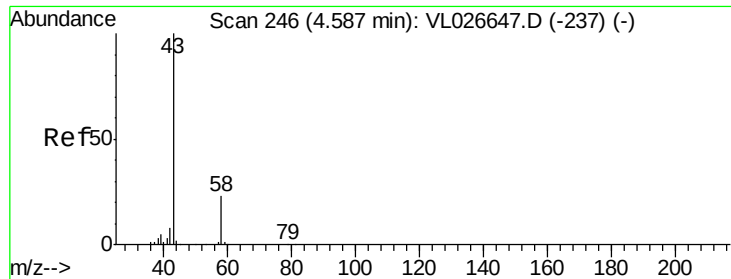
Ion Ratio Lower Upper

108 100

106 109.5 86.4 129.6

79 21.0 17.2 25.8





#15

Acetone

Concen: 9.33 ppbv

RT: 4.63 min Scan# 253

Delta R.T. 0.04 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Tot Ion: 43 Resp: 1312272

Ion Ratio Lower Upper

43 100

58 23.9 19.2 28.8

Instrument :

MSVOA_L

ClientSampleId :

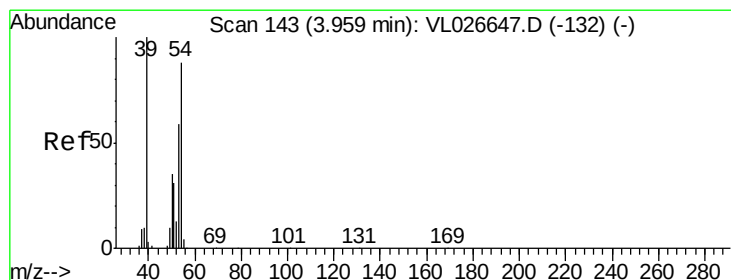
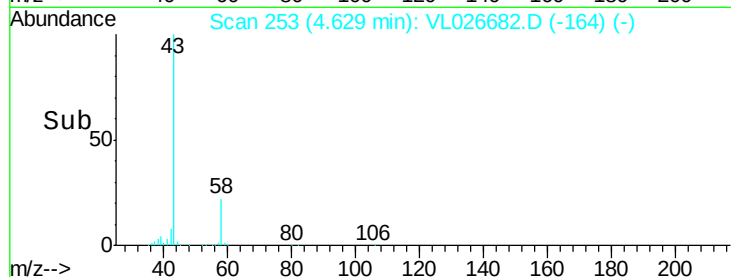
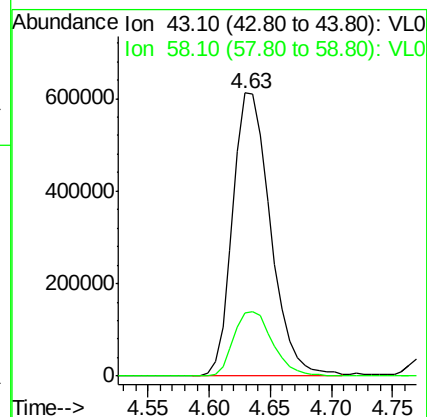
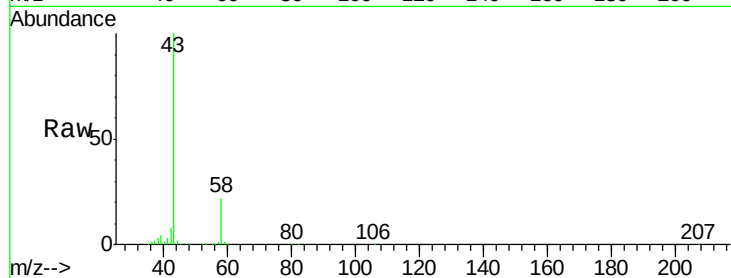
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#16

1,3-Butadiene

Concen: 10.52 ppbv

RT: 4.00 min Scan# 149

Delta R.T. 0.04 min

Lab File: VL026682.D

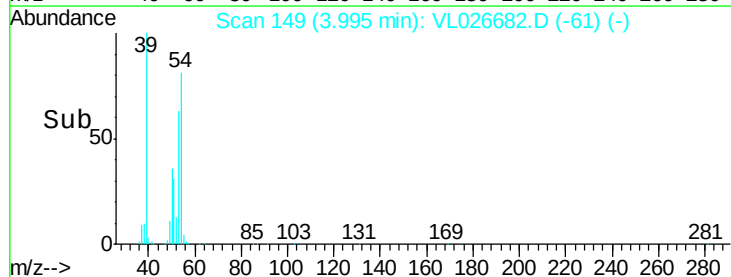
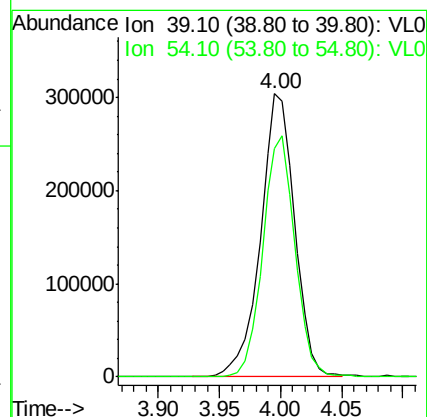
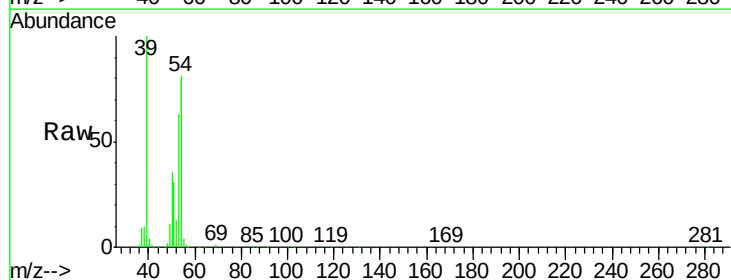
Acq: 12 Jan 2016 19:56

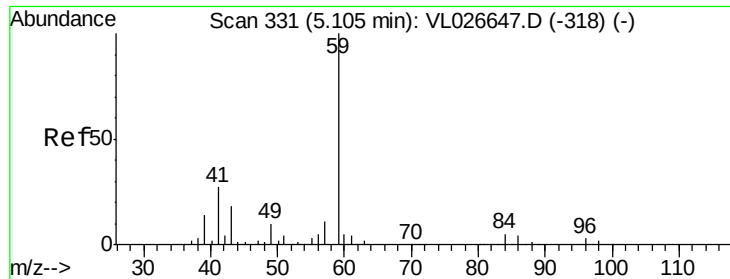
Tgt Ion: 39 Resp: 590762

Ion Ratio Lower Upper

39 100

54 80.3 66.6 100.0





#17

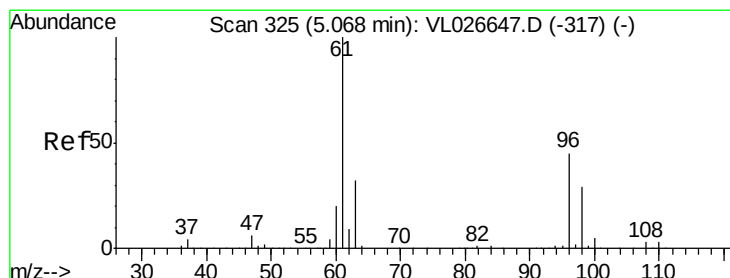
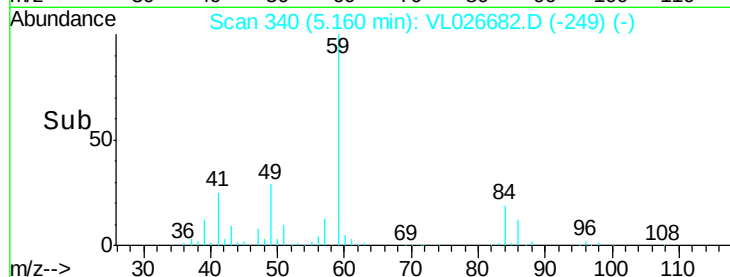
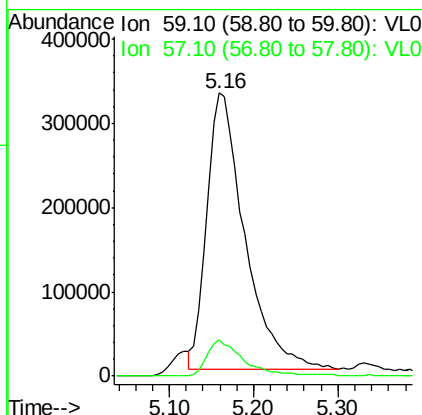
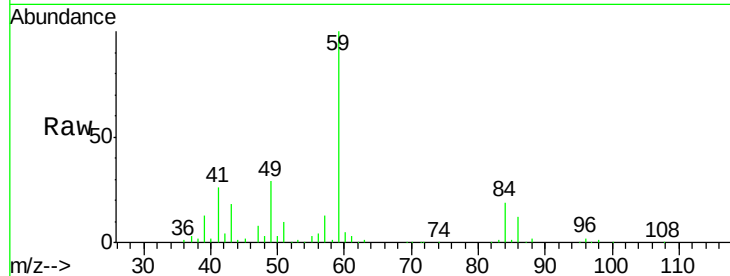
tert-Butyl alcohol
 Concen: 9.59 ppbv
 RT: 5.16 min Scan# 340
 Delta R.T. 0.06 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 1016499
 Ion Ratio Lower Upper
 59 100
 57 13.4 9.0 13.6

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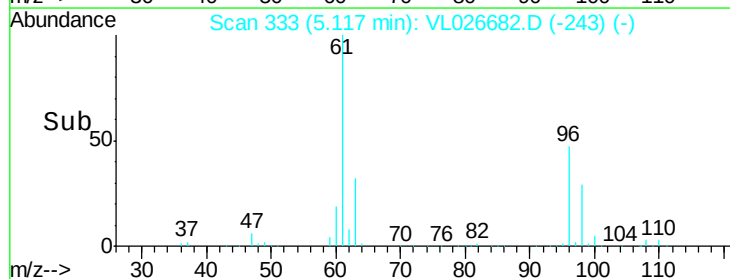
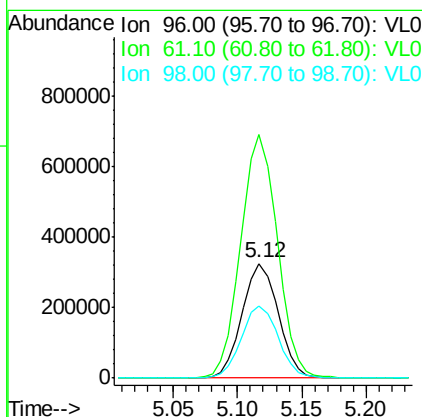
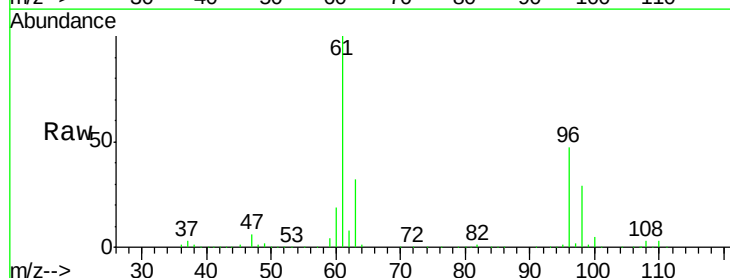
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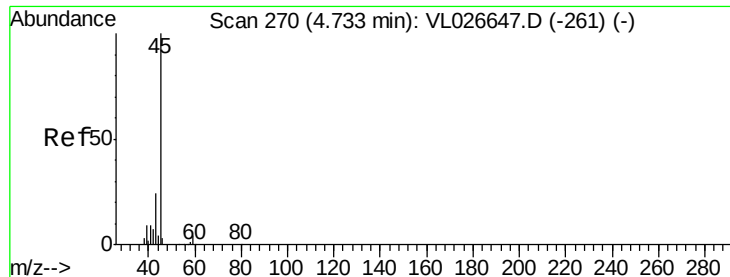


#18

1,1-Dichloroethene
 Concen: 10.53 ppbv
 RT: 5.12 min Scan# 333
 Delta R.T. 0.05 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion: 96 Resp: 635783
 Ion Ratio Lower Upper
 96 100
 61 211.7 176.7 265.1
 98 62.4 51.8 77.6





#19

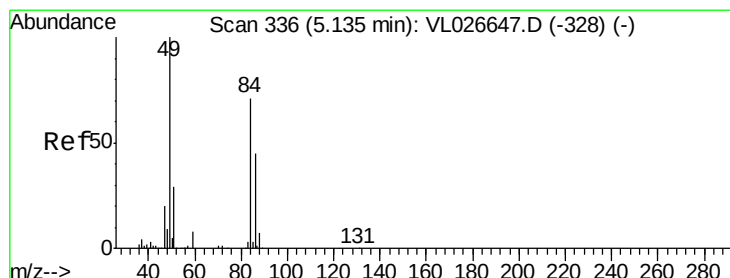
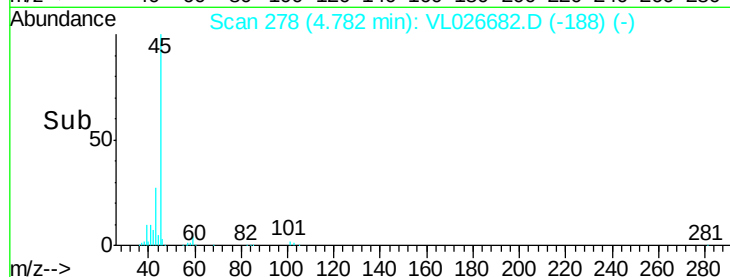
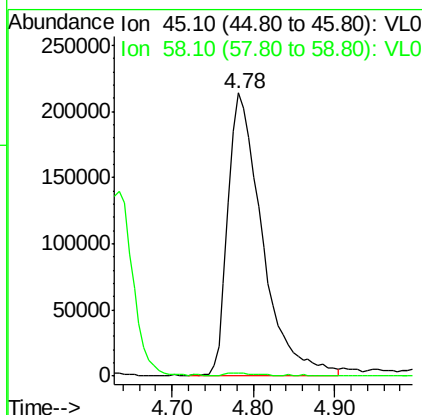
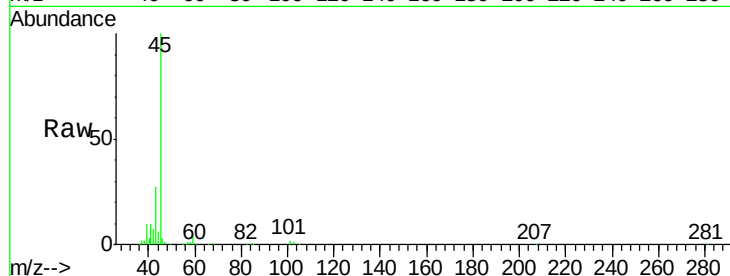
Isopropyl Alcohol
 Concen: 10.72 ppbv
 RT: 4.78 min Scan# 278
 Delta R.T. 0.05 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	45	Ratio	Lower	Upper
45	100			
58	1.6	1.3	1.9	

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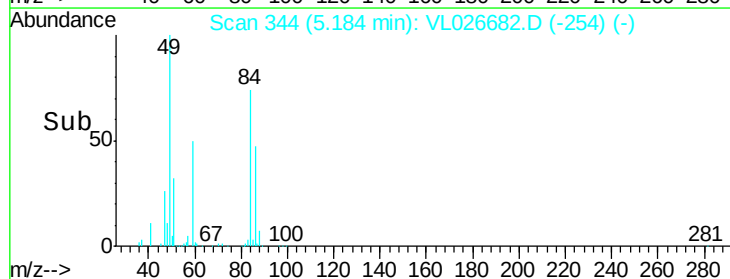
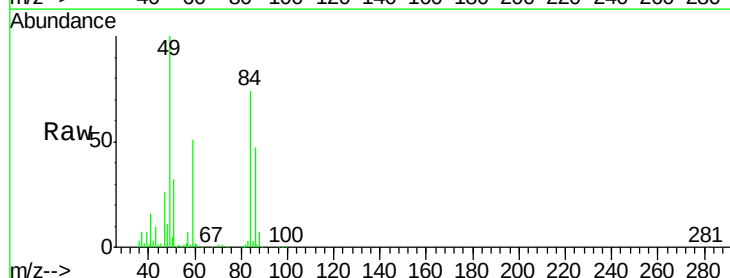
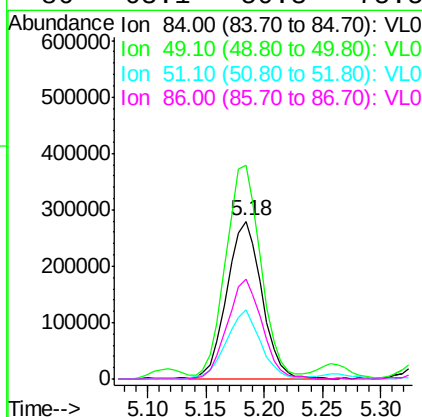
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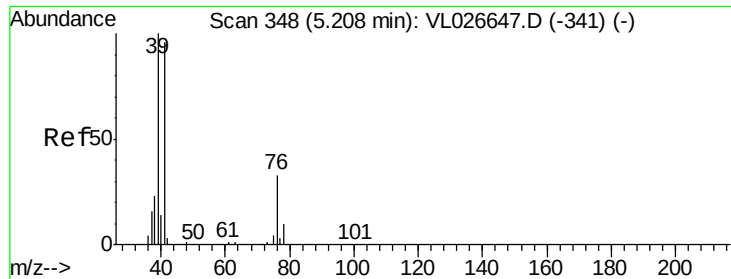


#20

Methylene Chloride
 Concen: 10.08 ppbv
 RT: 5.18 min Scan# 344
 Delta R.T. 0.05 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion	84	Ratio	Lower	Upper
84	100			
49	133.3	112.3	168.5	
51	43.2	32.5	48.7	
86	63.1	50.3	75.5	





#21

Allvl Chloride

Concen: 10.54 ppbv

RT: 5.26 min Scan# 356

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

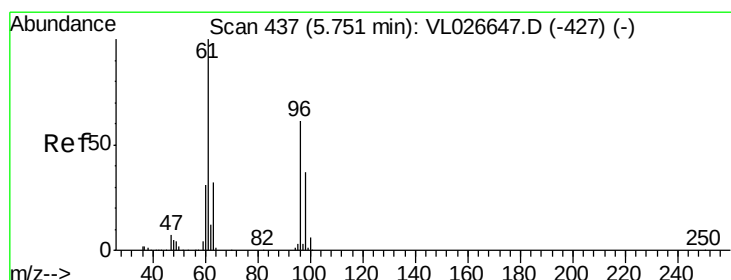
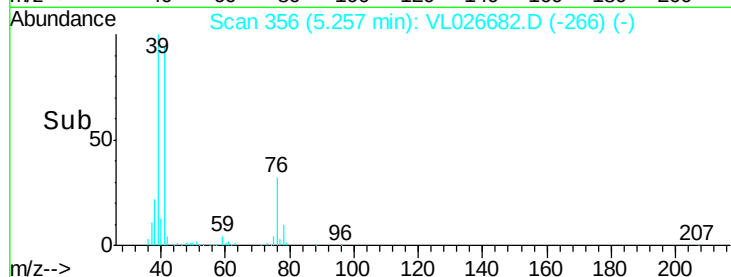
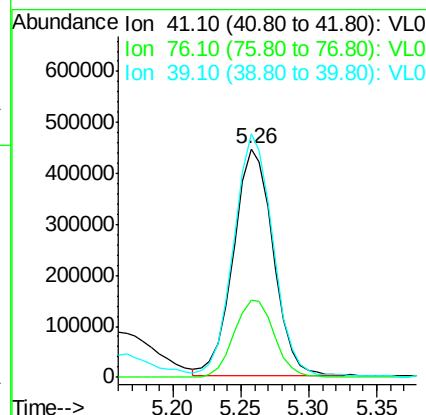
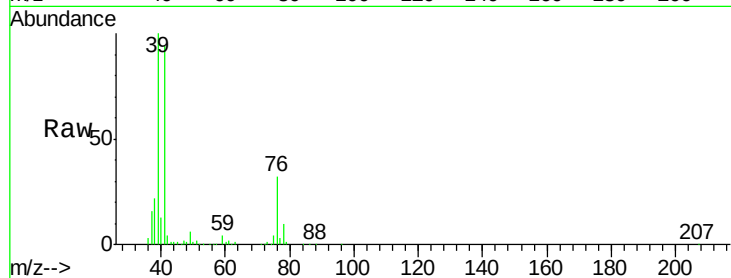
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	909007
Ion	Ratio	Lower	Upper
41	100		
76	34.6	27.5	41.3
39	107.2	83.0	124.6

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#22

trans-1,2-Dichloroethene

Concen: 10.39 ppbv

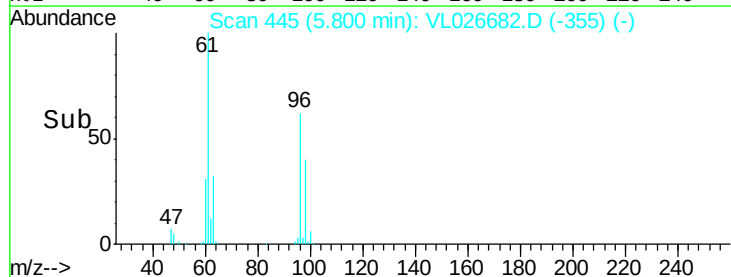
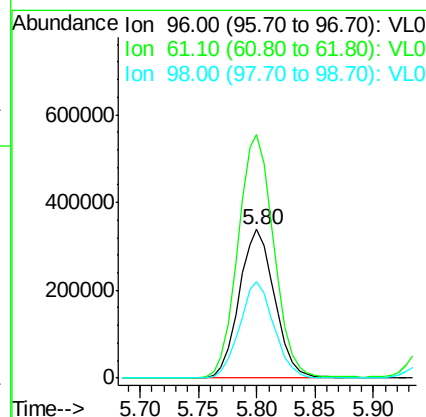
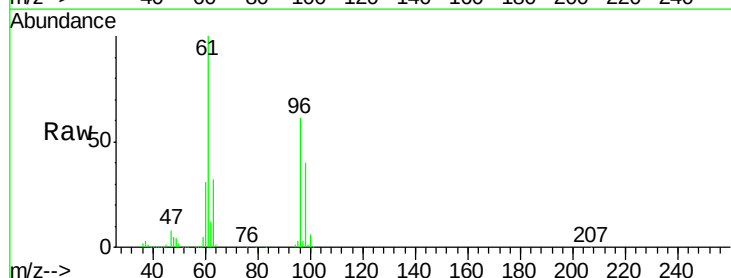
RT: 5.80 min Scan# 445

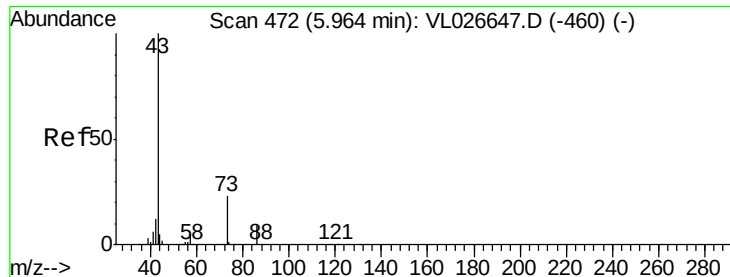
Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Tgt Ion:	96	Resp:	716535
Ion	Ratio	Lower	Upper
96	100		
61	163.5	131.0	196.6
98	65.0	48.1	72.1





#23

Vinyl Acetate

Concen: 10.85 ppbv

RT: 6.02 min Scan# 481

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2343167

Ion Ratio Lower Upper

43 100

86 8.5 7.4 11.0

42 11.4 9.2 13.8

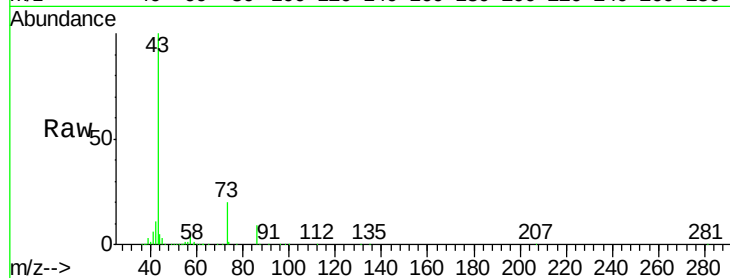
44 4.5 3.8 5.8

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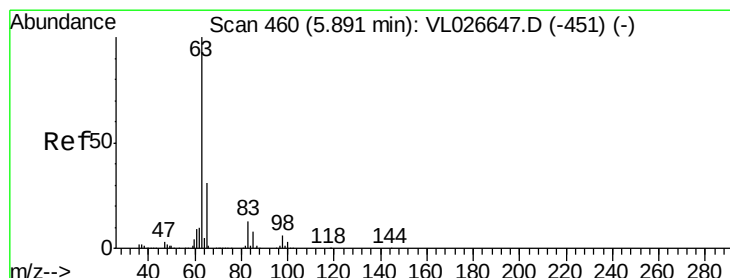
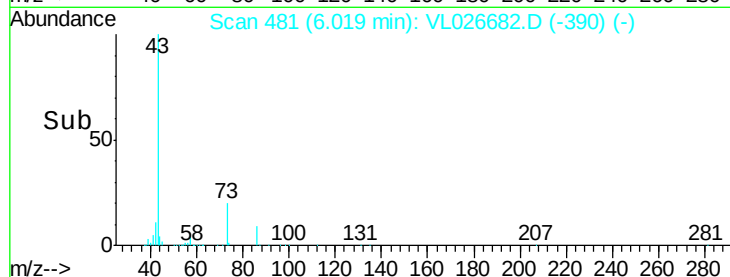
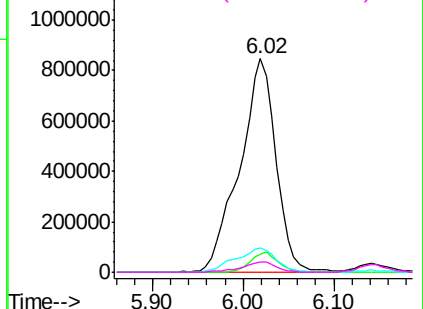


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.09 ppbv

RT: 5.95 min Scan# 469

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

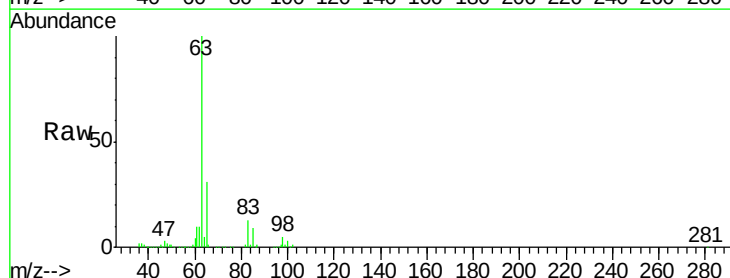
Tgt Ion: 63 Resp: 1570531

Ion Ratio Lower Upper

63 100

98 5.2 2.9 8.7

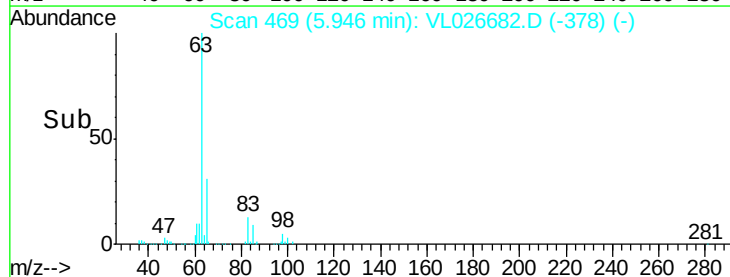
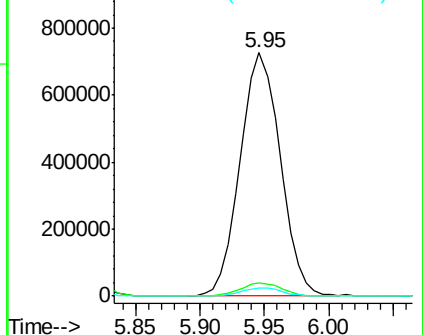
100 3.2 1.6 4.8

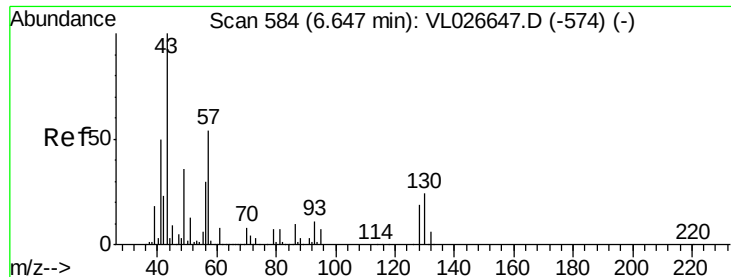


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





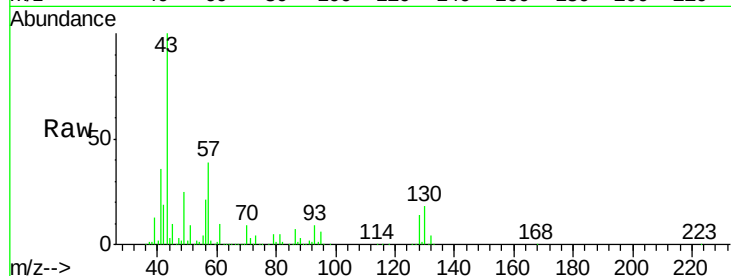
#25
Ethyl Acetate
Concen: 10.82 ppbv
RT: 6.71 min Scan# 594
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

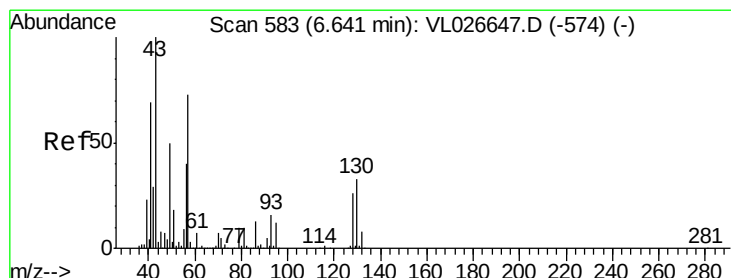
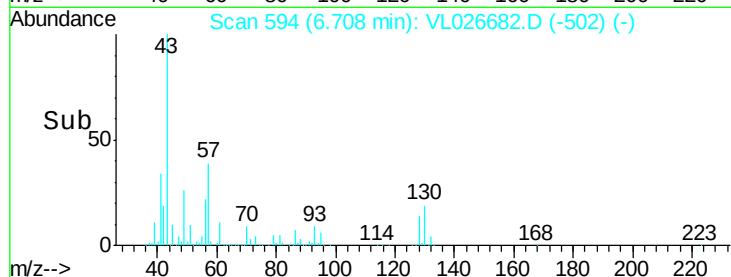
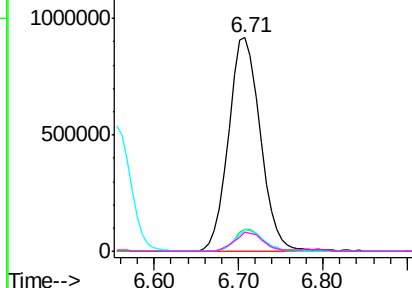
Tot Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.5	11.3
61	9.1	7.3	10.9
70	9.0	7.4	11.0

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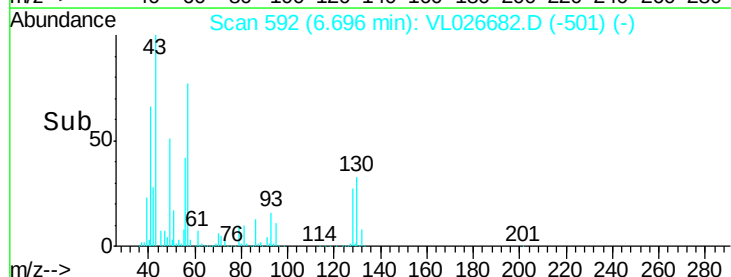
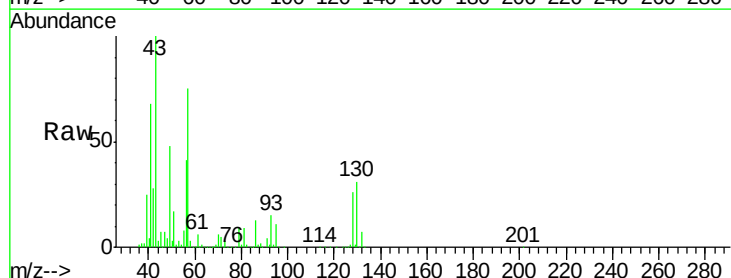
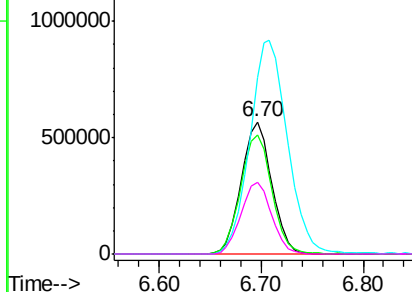
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

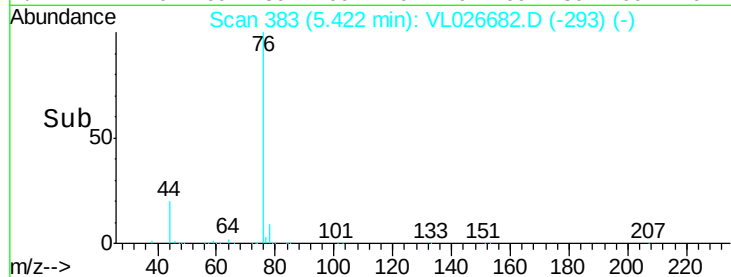
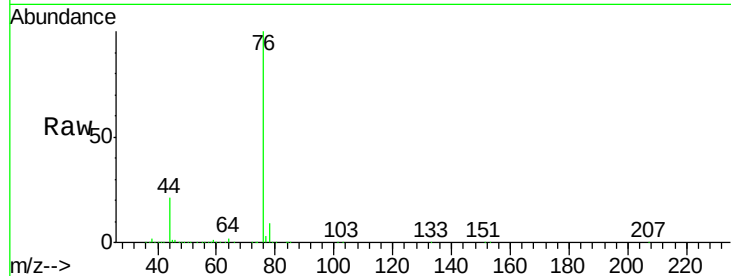
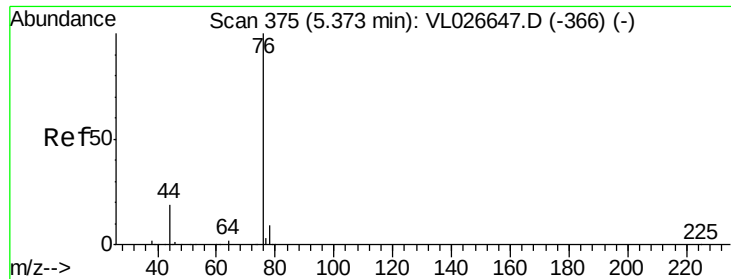


#26
Hexane
Concen: 10.43 ppbv
RT: 6.70 min Scan# 592
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.7	74.8	112.2
43	201.3	161.5	242.3
56	55.0	44.4	66.6

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





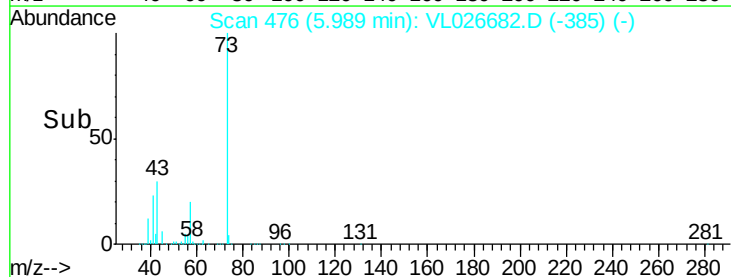
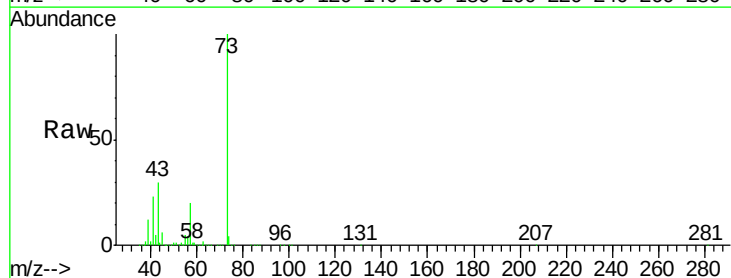
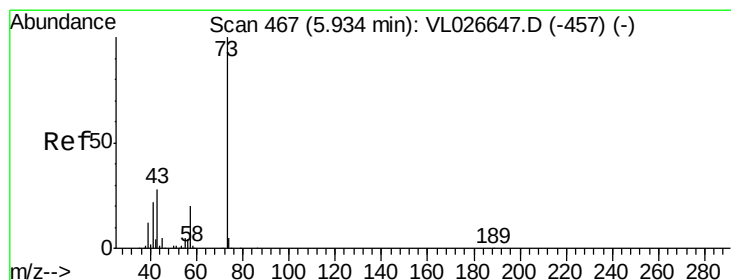
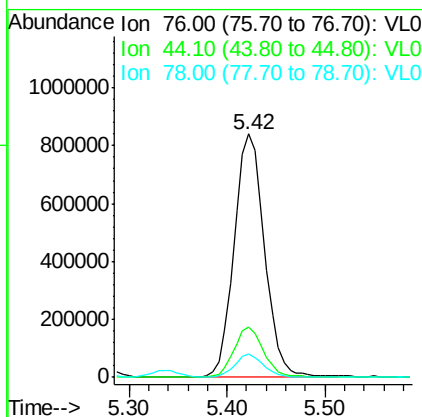
#27
Carbon Disulfide
Concen: 10.88 ppbv
RT: 5.42 min Scan# 383
Delta R.T. 0.05 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tot Ion: 76 Resp: 1814984
Ion Ratio Lower Upper
76 100
44 19.8 15.9 23.9
78 9.1 7.6 11.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

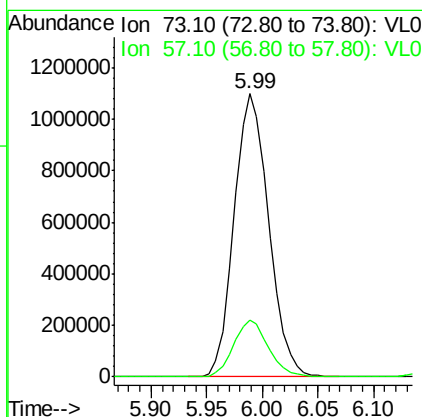
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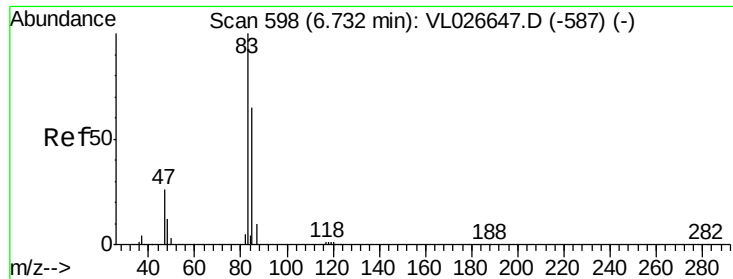
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#28
Methyl tert-Butyl Ether
Concen: 10.61 ppbv
RT: 5.99 min Scan# 476
Delta R.T. 0.05 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 73 Resp: 2366918
Ion Ratio Lower Upper
73 100
57 20.3 16.2 24.4





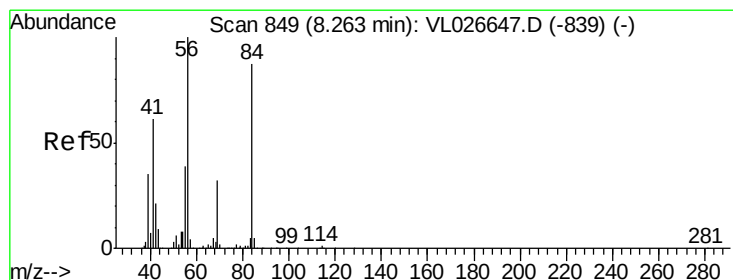
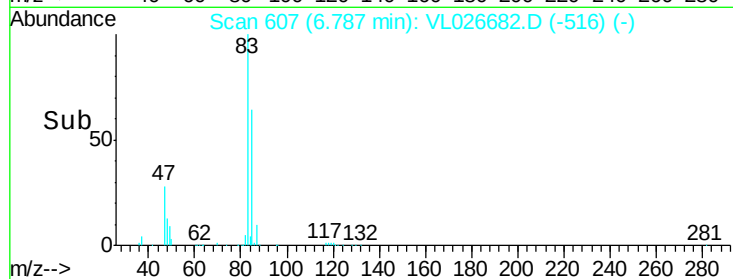
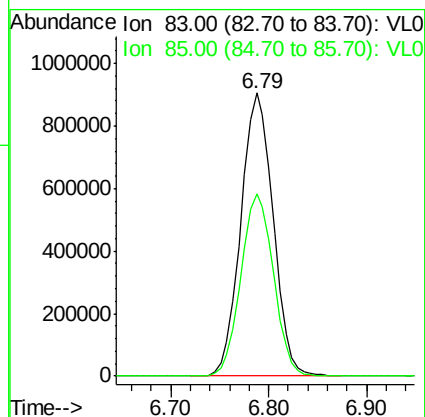
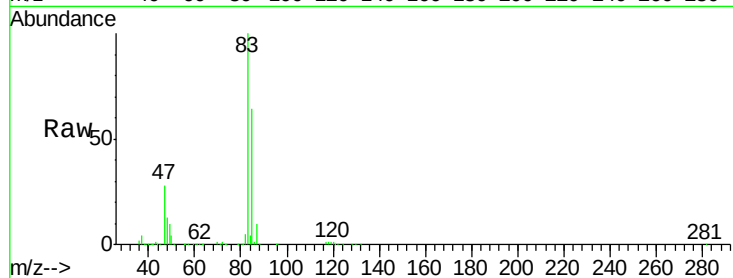
#29
Chloroform
Concen: 10.20 ppbv
RT: 6.79 min Scan# 607
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2077687
Ion Ratio Lower Upper
83 100
85 64.2 51.6 77.4

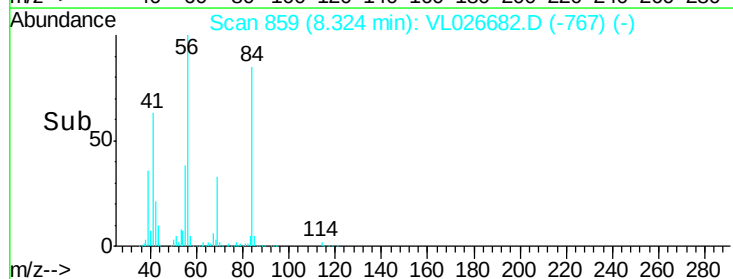
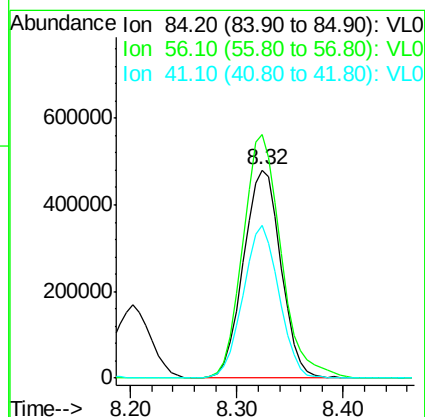
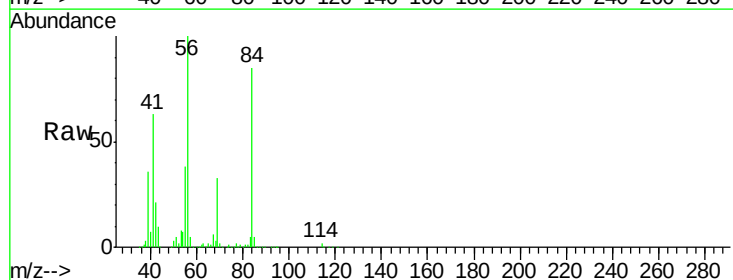
Manual Integrations
APPROVED

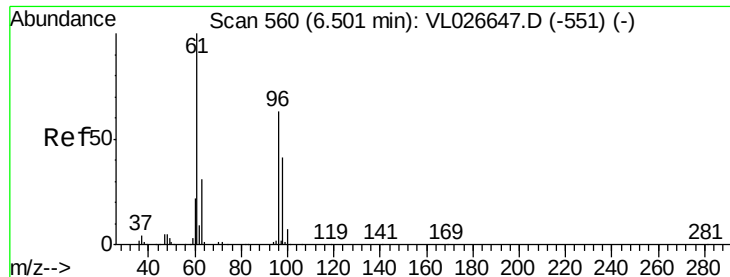
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#30
Cyclohexane
Concen: 10.68 ppbv
RT: 8.32 min Scan# 859
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 84 Resp: 1183350
Ion Ratio Lower Upper
84 100
56 120.4 95.9 143.9
41 70.9 54.8 82.2





#31

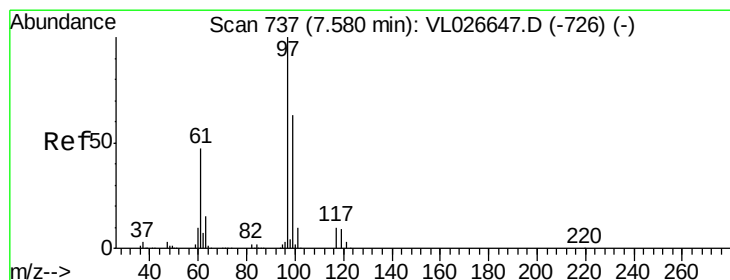
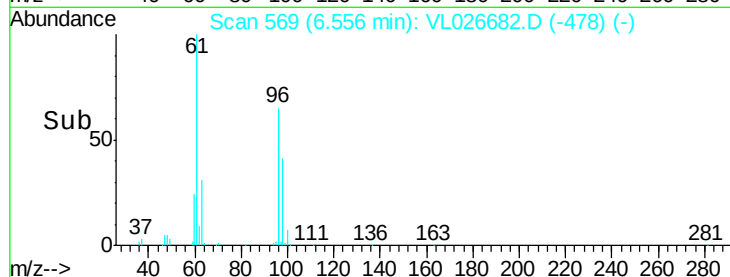
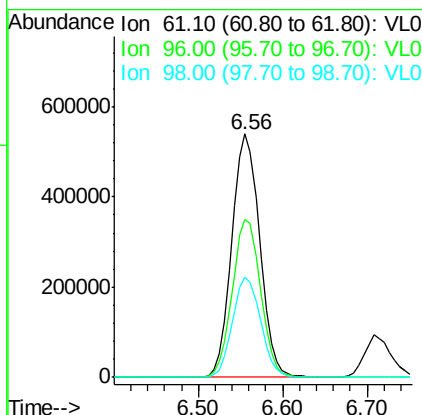
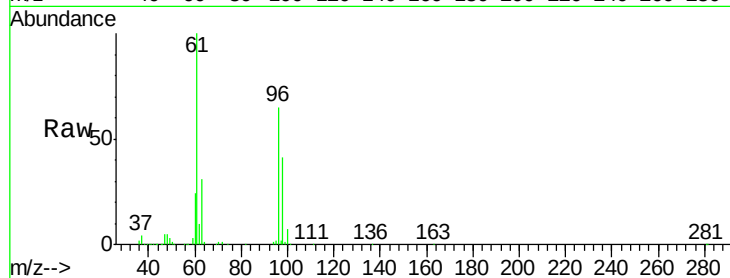
cis-1,2-Dichloroethene
 Concen: 10.73 ppbv
 RT: 6.56 min Scan# 569
 Delta R.T. 0.05 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 61 Resp: 1214093
 Ion Ratio Lower Upper
 61 100
 96 65.0 50.2 75.4
 98 41.0 32.4 48.6

Manual Integrations
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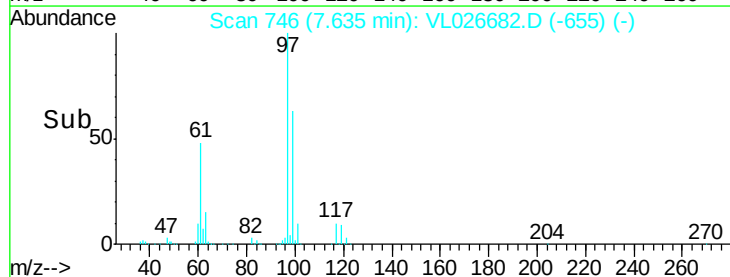
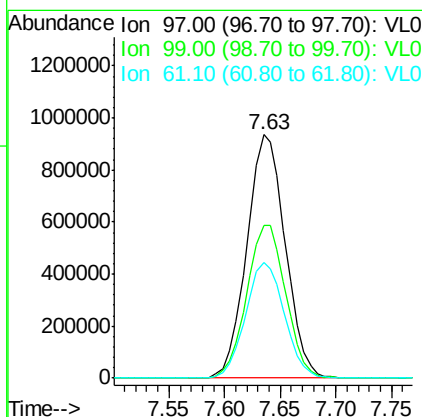
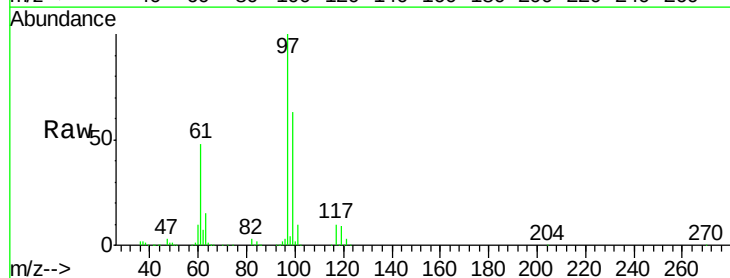
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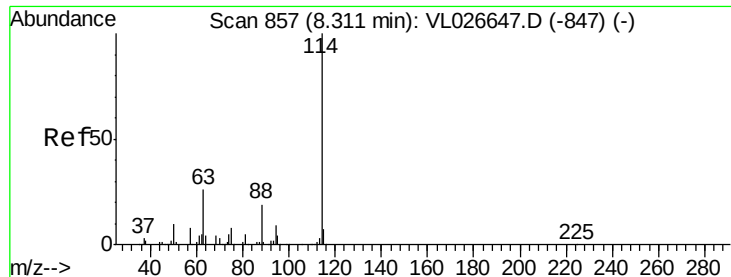


#32

1,1,1-Trichloroethane
 Concen: 9.76 ppbv
 RT: 7.63 min Scan# 746
 Delta R.T. 0.05 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion: 97 Resp: 2245914
 Ion Ratio Lower Upper
 97 100
 99 63.9 50.8 76.2
 61 48.2 38.9 58.3





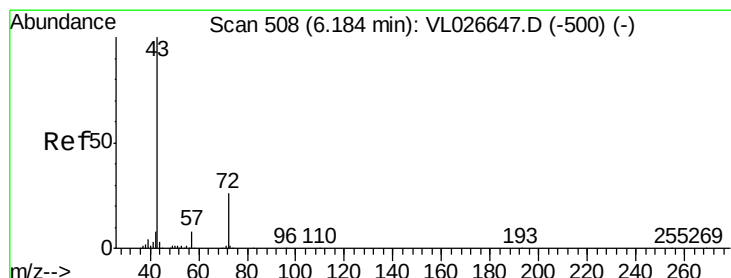
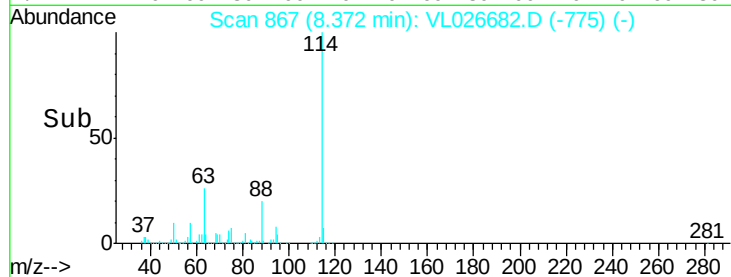
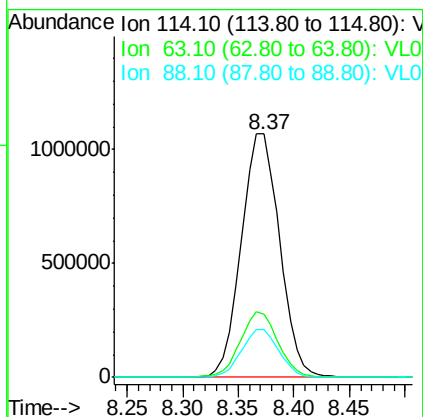
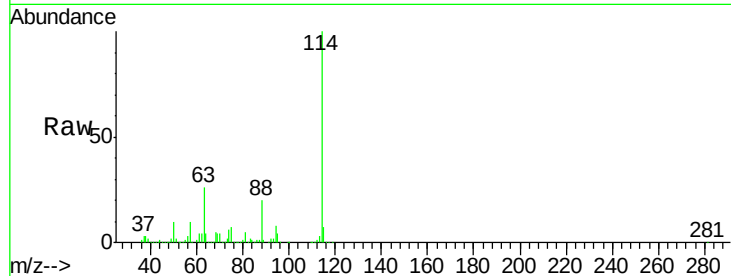
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 867
 Delta R.T. 0.06 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:114 Resp: 2566272
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.7 32.5
 88 19.2 15.2 22.8

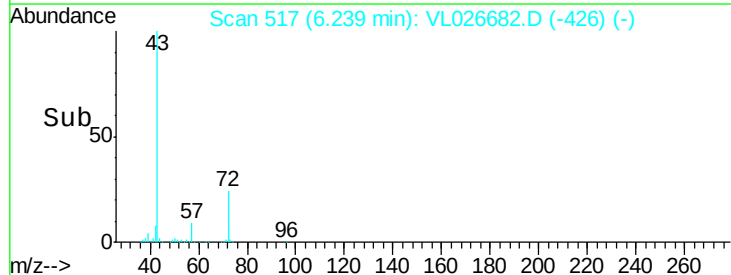
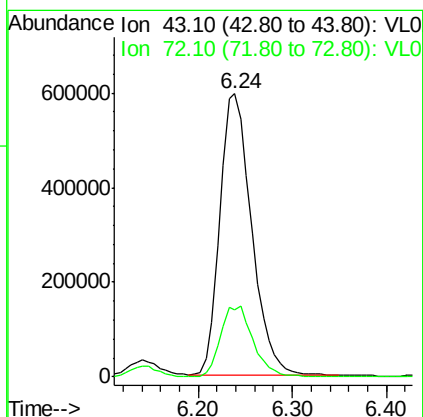
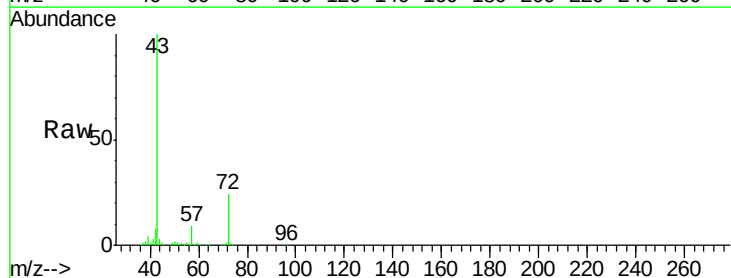
Manual Integrations
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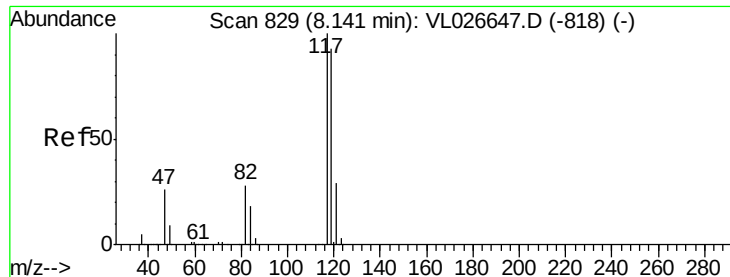
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#34
 2-Butanone
 Concen: 10.21 ppbv
 RT: 6.24 min Scan# 517
 Delta R.T. 0.05 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion: 43 Resp: 1396837
 Ion Ratio Lower Upper
 43 100
 72 26.1 20.9 31.3





#35

Carbon Tetrachloride

Concen: 9.80 ppbv

RT: 8.20 min Scan# 839

Delta R.T. 0.06 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

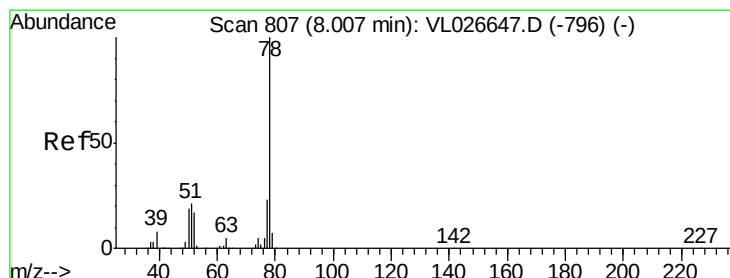
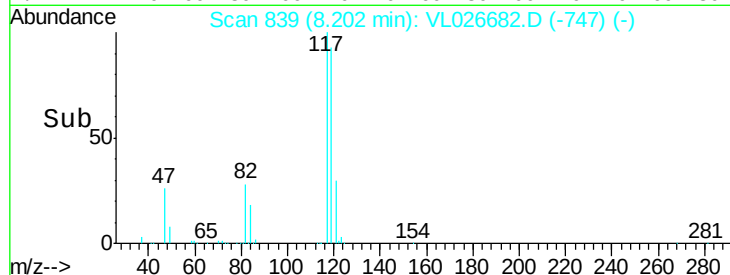
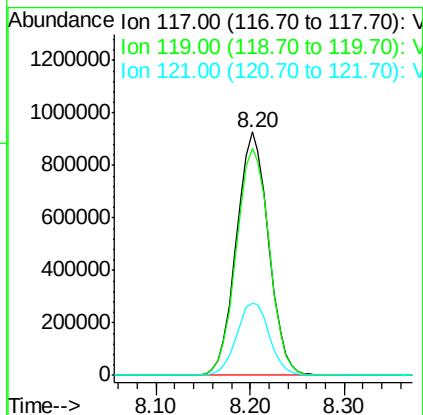
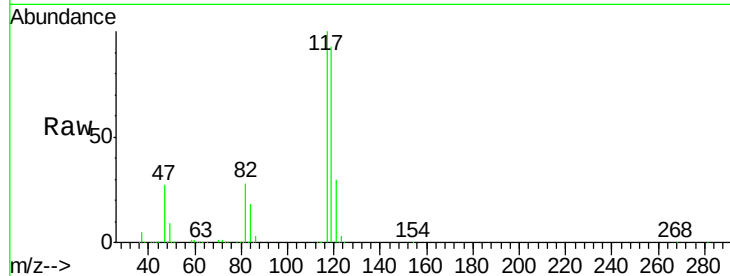
ClientSampleId :

VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.4	74.7	112.1
121	29.8	23.1	34.7

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#36

Benzene

Concen: 10.11 ppbv

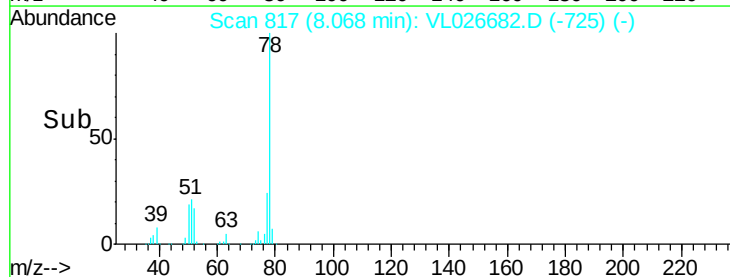
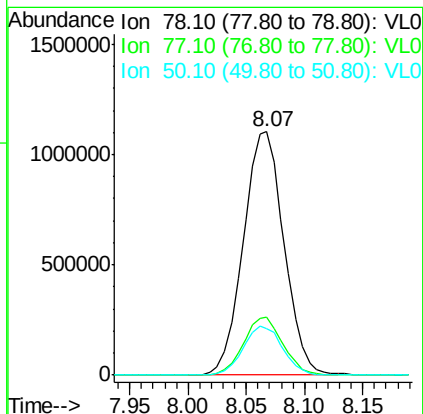
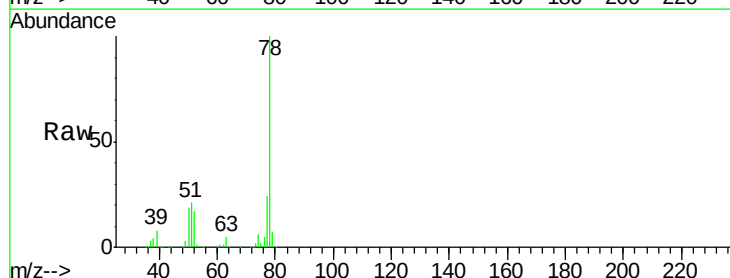
RT: 8.07 min Scan# 817

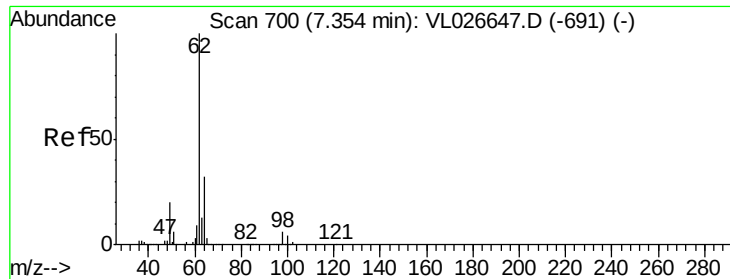
Delta R.T. 0.06 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.5	27.7
50	18.9	15.4	23.2





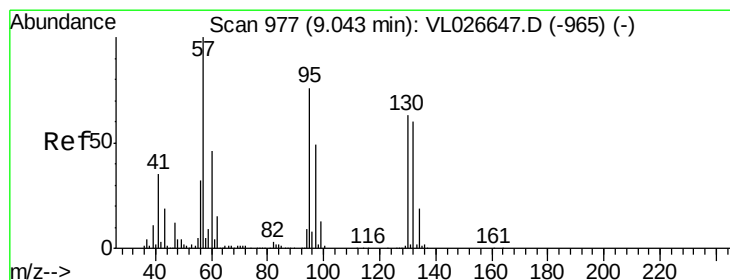
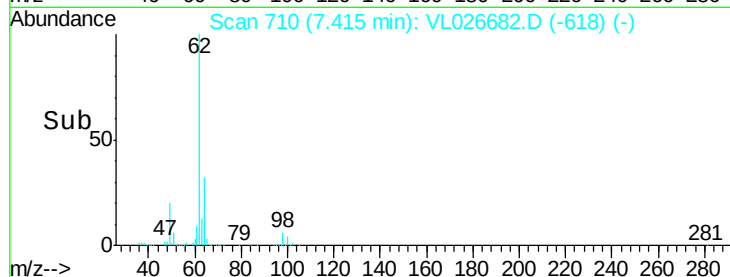
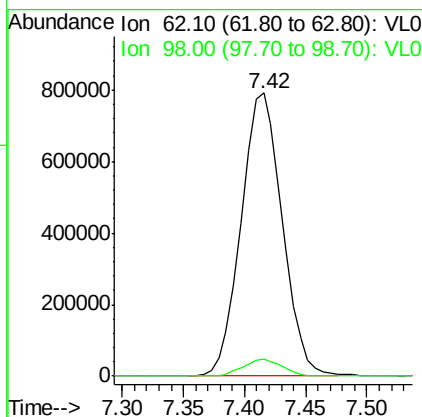
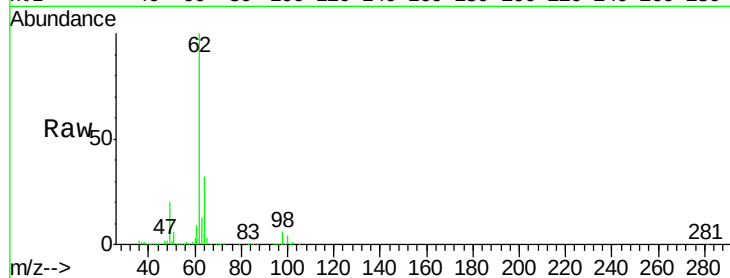
#37
 1,2-Dichloroethane
 Concen: 10.26 ppbv
 RT: 7.42 min Scan# 710
 Delta R.T. 0.06 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1852216
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.8 7.2

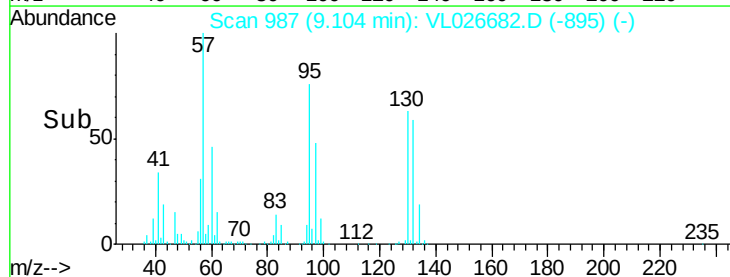
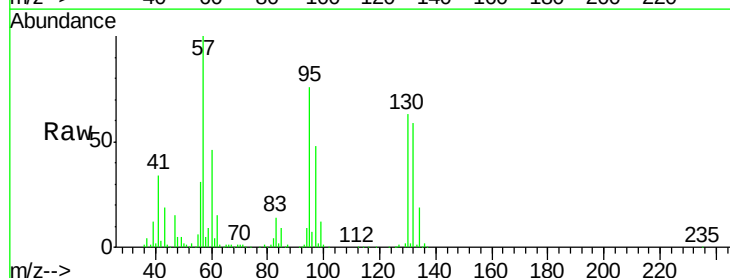
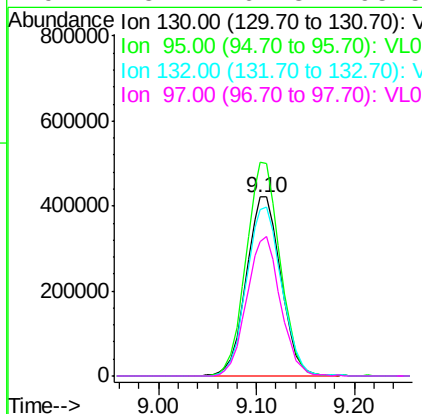
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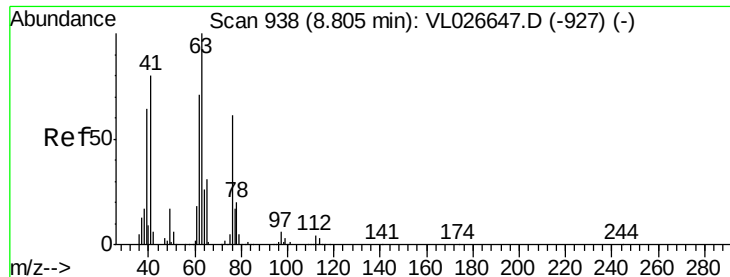
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#38
 Trichloroethene
 Concen: 8.76 ppbv
 RT: 9.10 min Scan# 987
 Delta R.T. 0.06 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion:130 Resp: 1032129
 Ion Ratio Lower Upper
 130 100
 95 119.4 96.6 145.0
 132 92.9 76.2 114.4
 97 75.2 62.3 93.5





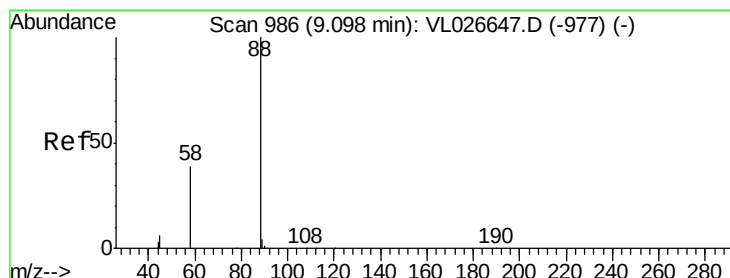
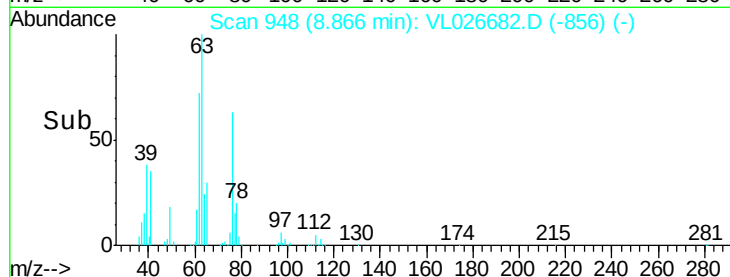
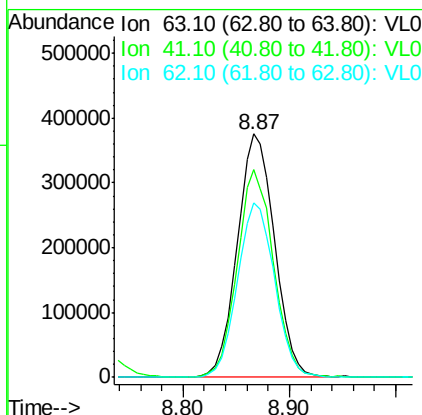
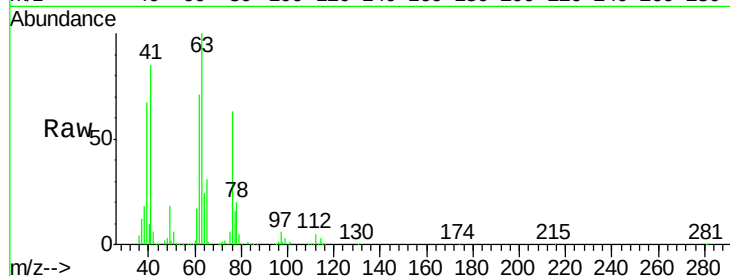
#39
 1,2-Dichloropropane
 Concen: 10.12 ppbv
 RT: 8.87 min Scan# 948
 Delta R.T. 0.06 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.0	64.1	96.1
62	71.5	56.6	84.8

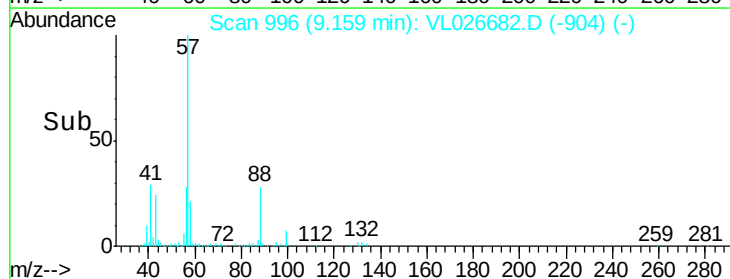
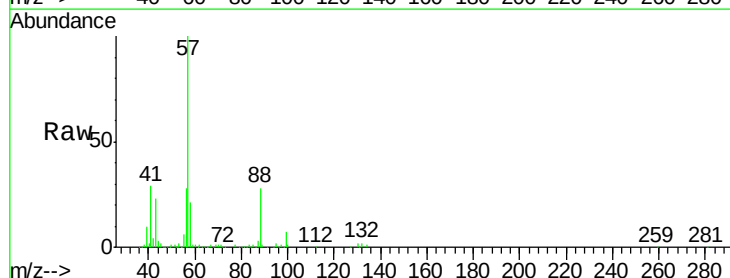
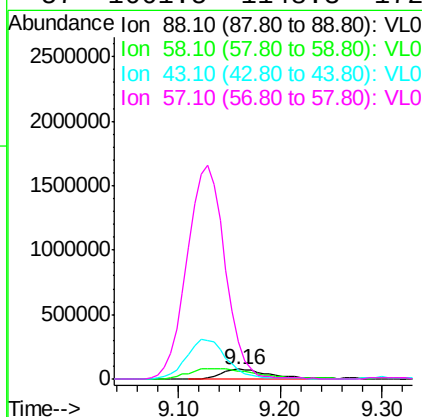
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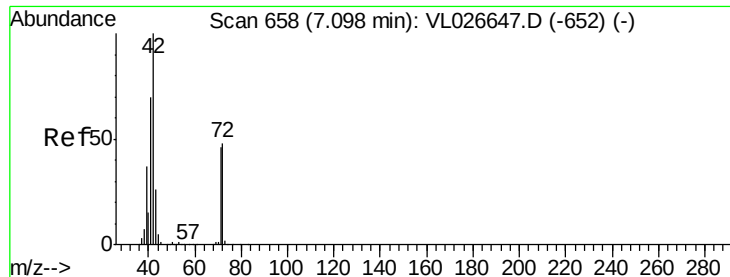
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#40
 1,4-Dioxane
 Concen: 12.34 ppbv
 RT: 9.16 min Scan# 996
 Delta R.T. 0.06 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	142.9	109.4	164.2
43	331.2	238.2	357.2
57	1661.5	1148.3	1722.5





#41

Tetrahydrofuran

Concen: 11.19 ppbv

RT: 7.16 min Scan# 668

Delta R.T. 0.06 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

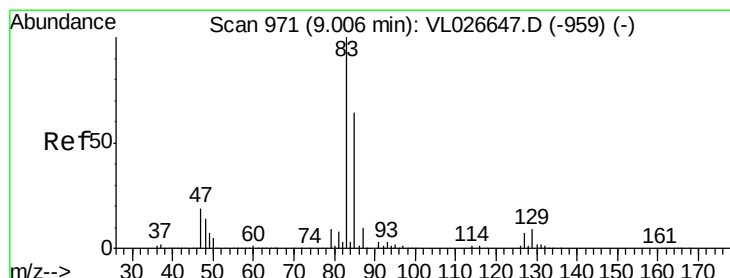
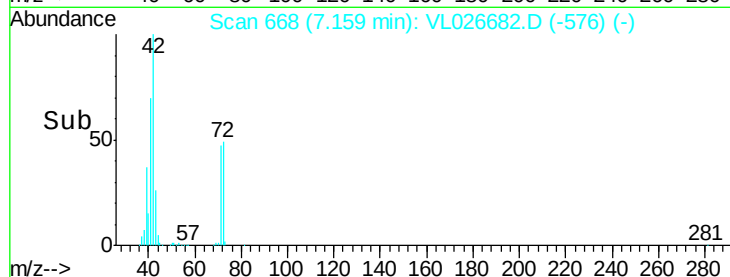
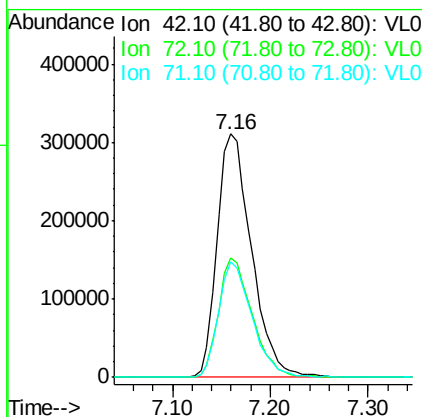
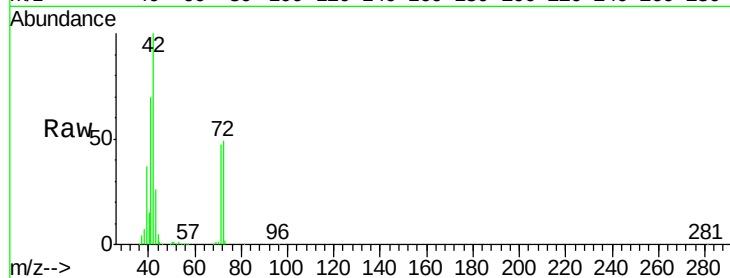
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	757883
Ion Ratio	Lower	Upper	
42	100		
72	48.3	40.6	60.8
71	46.3	38.4	57.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.27 ppbv

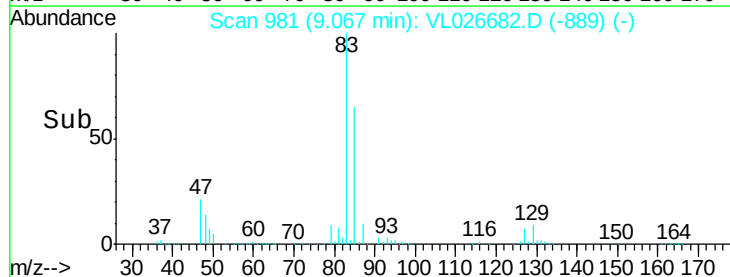
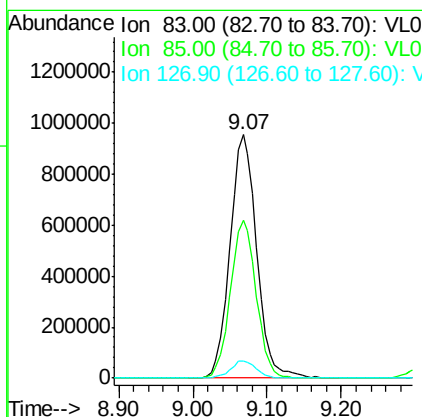
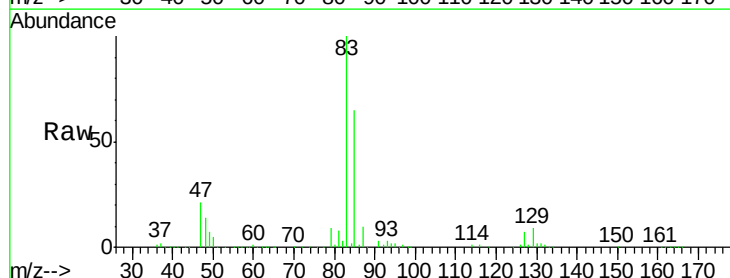
RT: 9.07 min Scan# 981

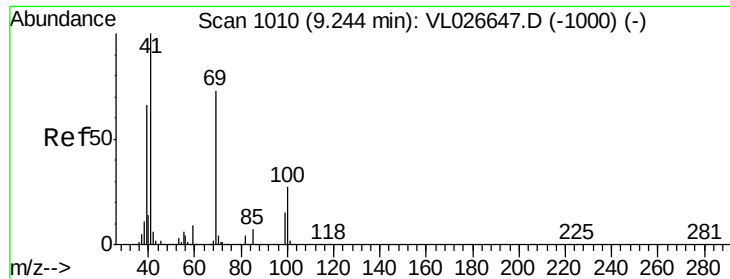
Delta R.T. 0.06 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Tgt Ion:	83	Resp:	2396464
Ion Ratio	Lower	Upper	
83	100		
85	64.8	50.9	76.3
127	7.1	5.5	8.3





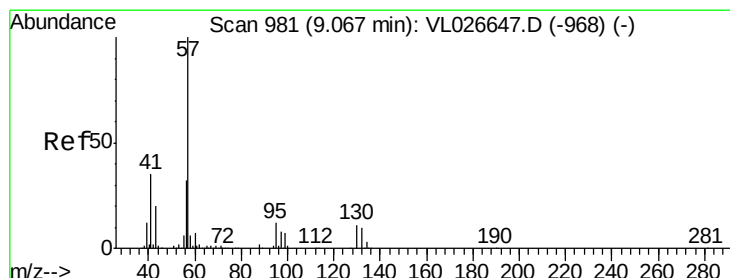
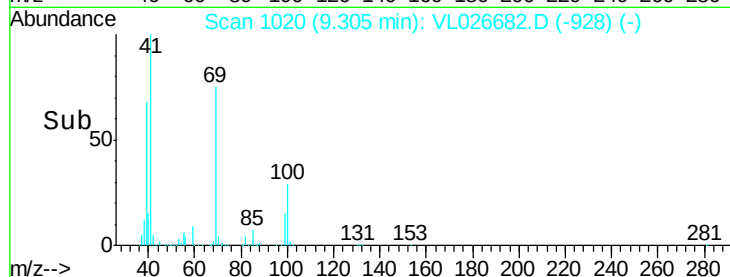
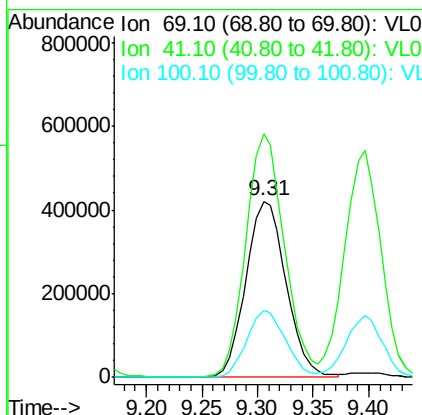
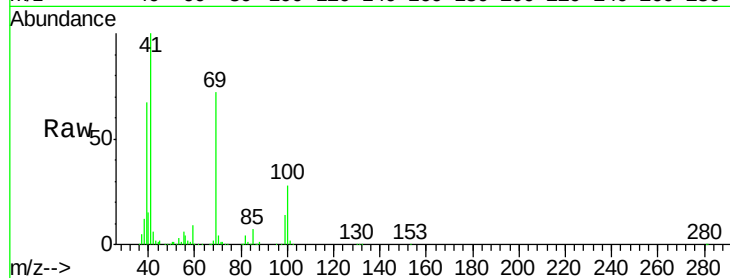
#43
Methyl Methacrylate
Concen: 10.98 ppbv
RT: 9.31 min Scan# 1020
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1059303
Ion Ratio Lower Upper
69 100
41 134.5 106.1 159.1
100 37.3 29.0 43.4

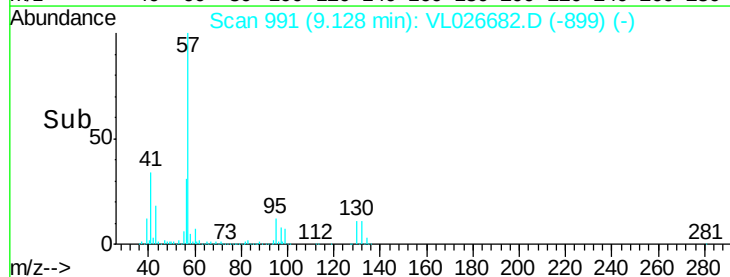
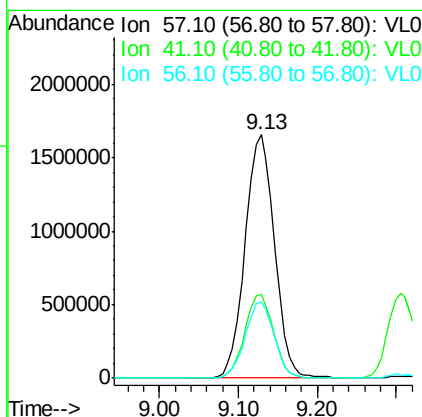
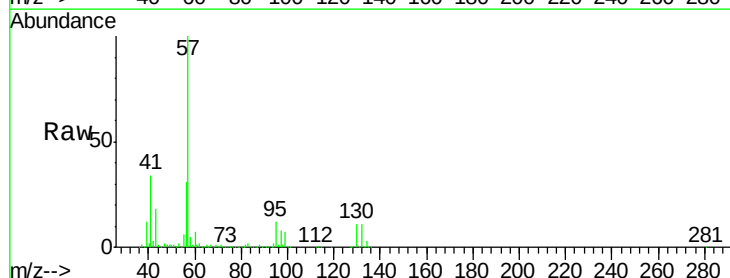
Manual Integrations
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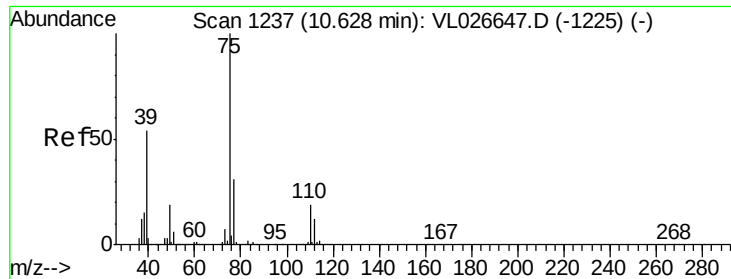
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#44
2,2,4-Trimethylpentane
Concen: 10.07 ppbv
RT: 9.13 min Scan# 991
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 57 Resp: 4292467
Ion Ratio Lower Upper
57 100
41 33.6 26.9 40.3
56 30.8 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 11.48 ppbv

RT: 10.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1793193

Ion Ratio Lower Upper

75 100

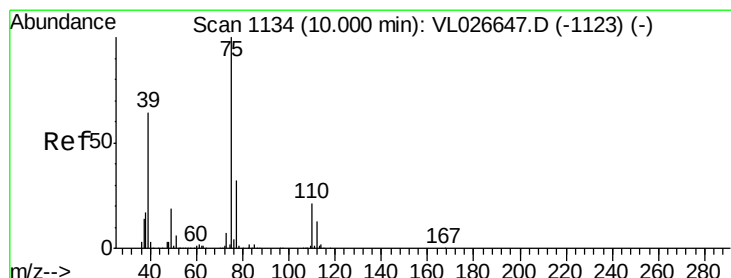
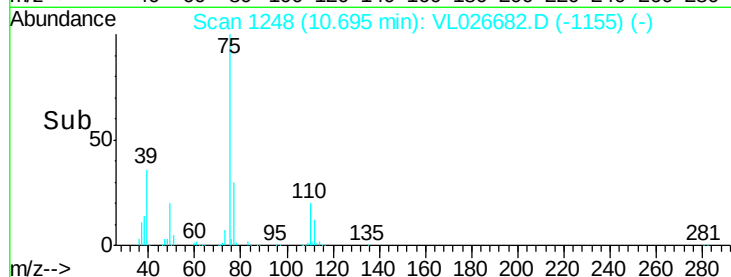
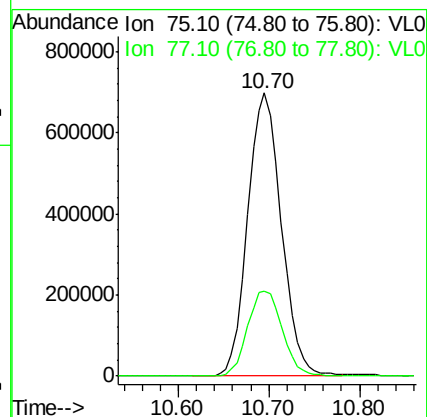
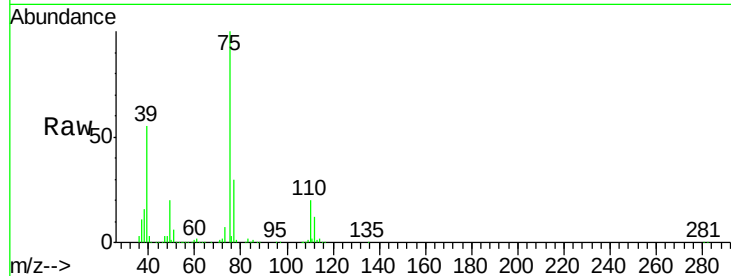
77 29.9 24.6 37.0

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#46

cis-1,3-Dichloropropene

Concen: 11.22 ppbv

RT: 10.06 min Scan# 1144

Delta R.T. 0.06 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

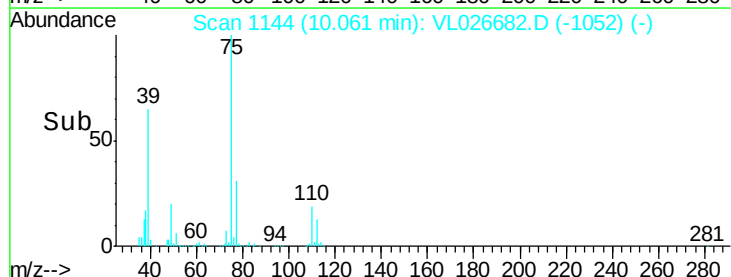
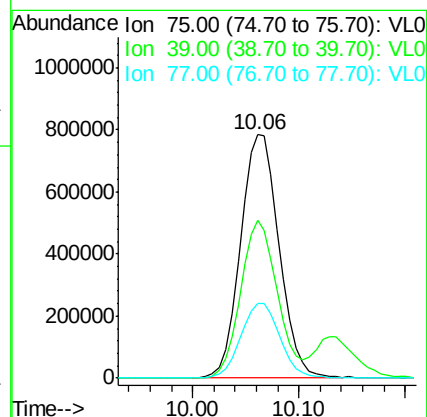
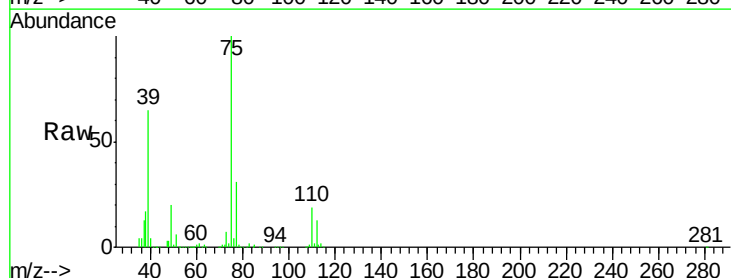
Tgt Ion: 75 Resp: 1992202

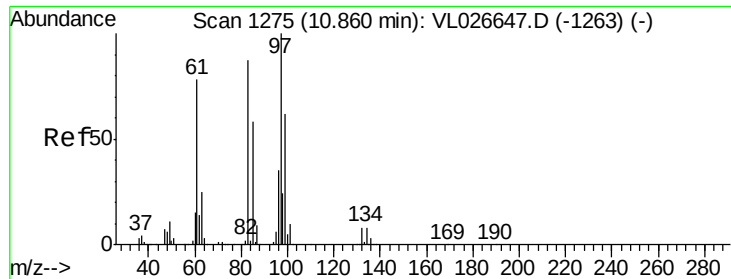
Ion Ratio Lower Upper

75 100

39 64.9 51.2 76.8

77 30.8 25.9 38.9





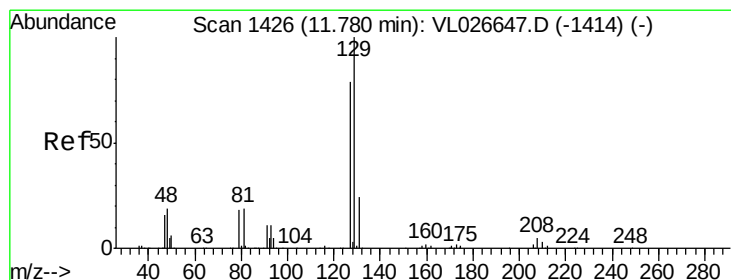
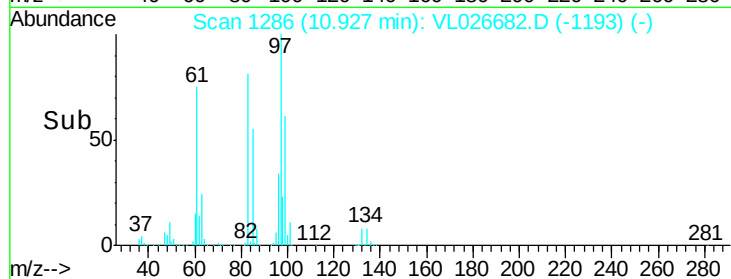
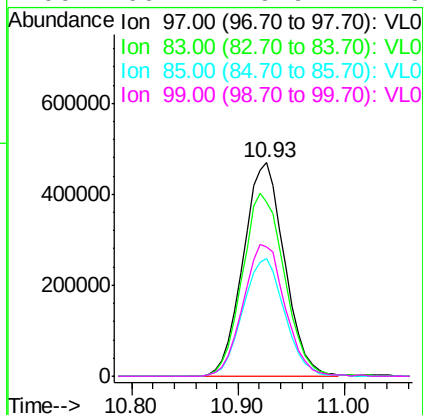
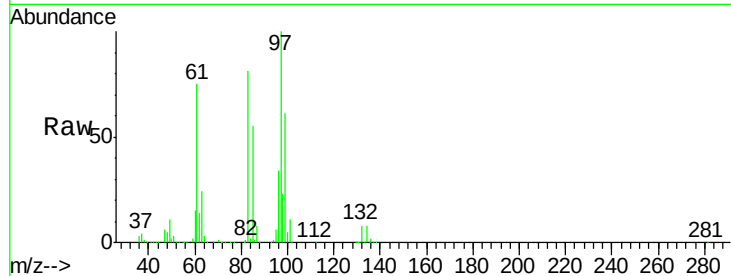
#47
 1,1,2-Trichloroethane
 Concen: 9.82 ppbv
 RT: 10.93 min Scan# 1286
 Delta R.T. 0.07 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 97 Resp: 1278559
 Ion Ratio Lower Upper
 97 100
 83 81.5 69.5 104.3
 85 54.9 46.4 69.6
 99 60.7 49.9 74.9

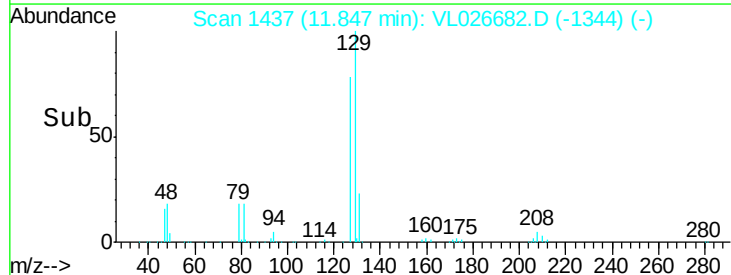
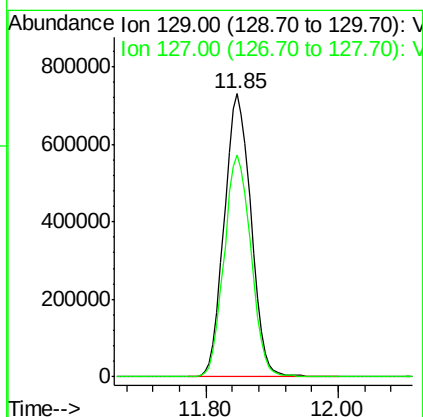
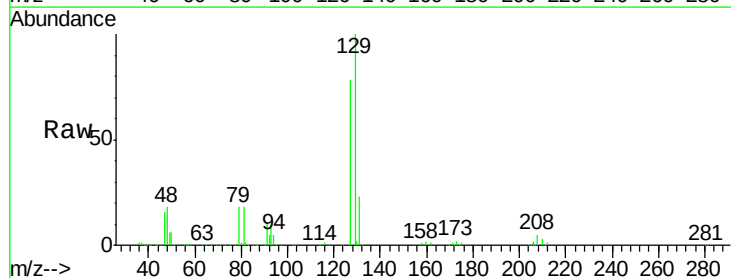
Manual Integrations
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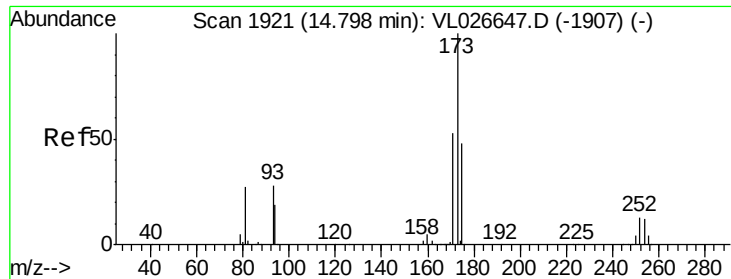
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#48
 Dibromochloromethane
 Concen: 10.49 ppbv
 RT: 11.85 min Scan# 1437
 Delta R.T. 0.07 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion: 129 Resp: 2047831
 Ion Ratio Lower Upper
 129 100
 127 78.9 39.5 118.5





#49

Bromoform

Concen: 10.55 ppbv

RT: 14.87 min Scan# 1932

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1680939

Ion Ratio Lower Upper

173 100

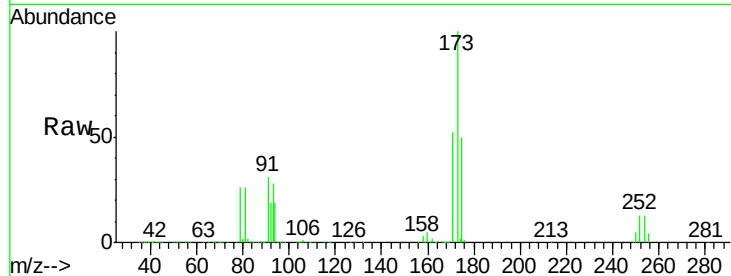
175 49.1 38.6 58.0

171 52.6 41.5 62.3

Manual Integrations
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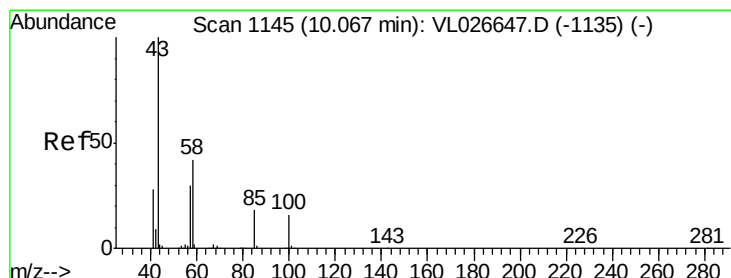
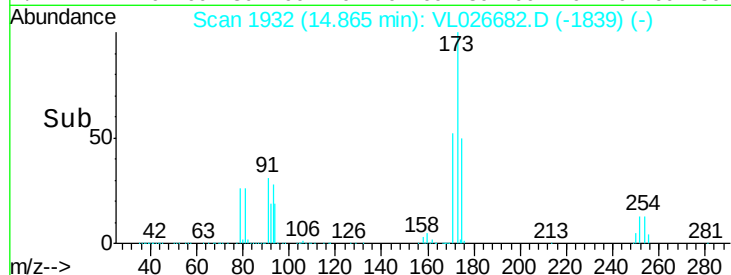
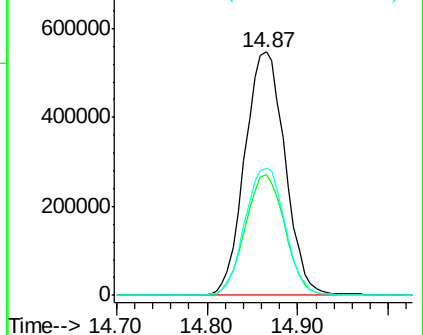
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.96 ppbv

RT: 10.13 min Scan# 1155

Delta R.T. 0.06 min

Lab File: VL026682.D

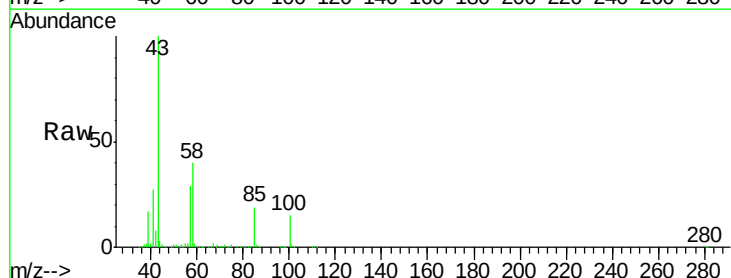
Acq: 12 Jan 2016 19:56

Tgt Ion: 43 Resp: 2107560

Ion Ratio Lower Upper

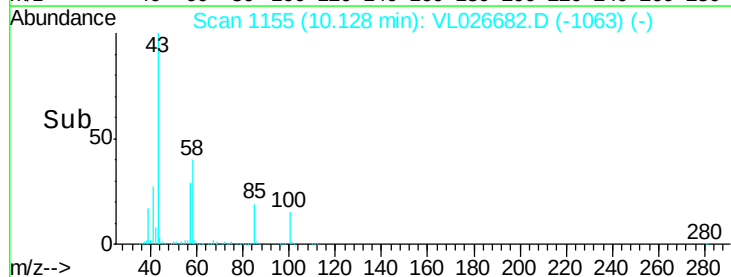
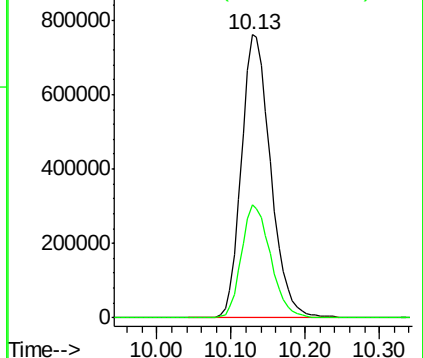
43 100

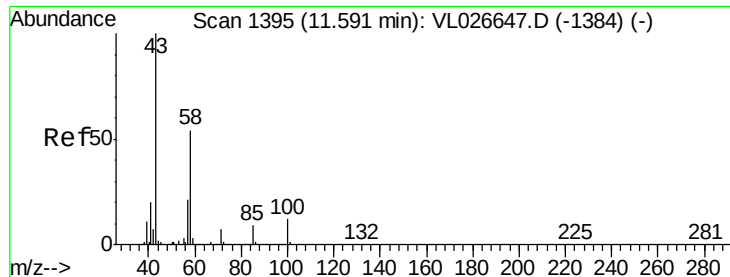
58 39.8 32.4 48.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





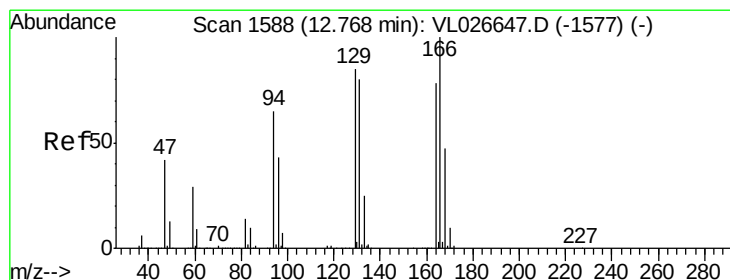
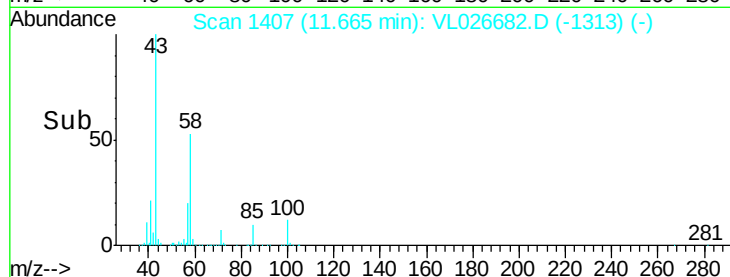
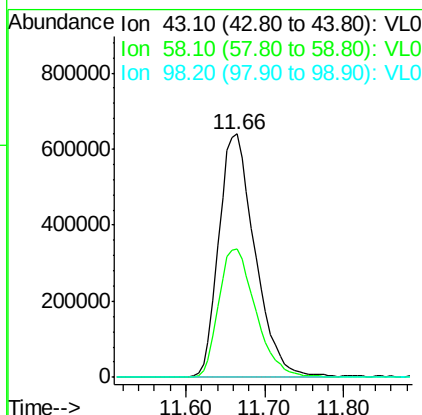
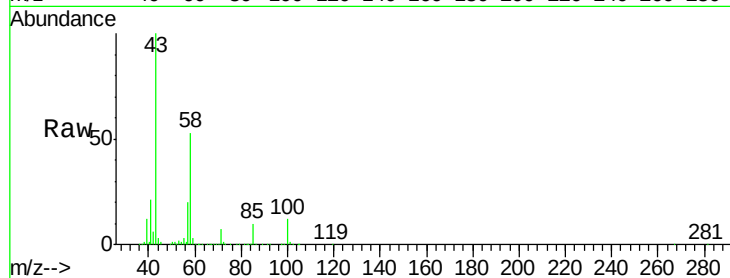
#51
2-Hexanone
Concen: 11.51 ppbv
RT: 11.66 min Scan# 1407
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2039474
Ion Ratio Lower Upper
43 100
58 54.4 44.9 67.3
98 0.2 0.2 0.2

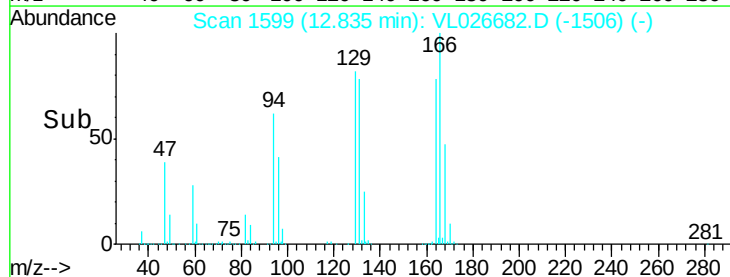
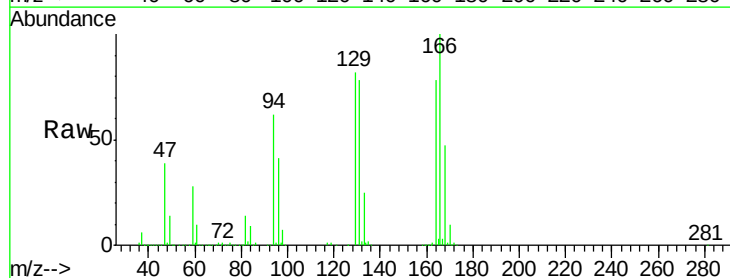
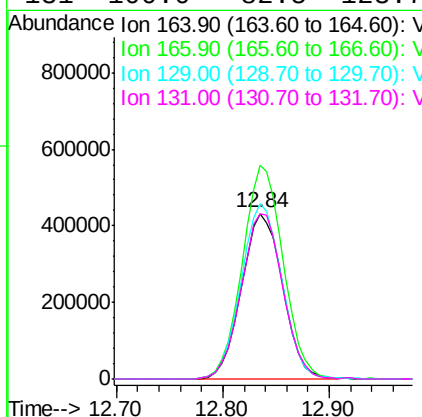
Manual Integrations
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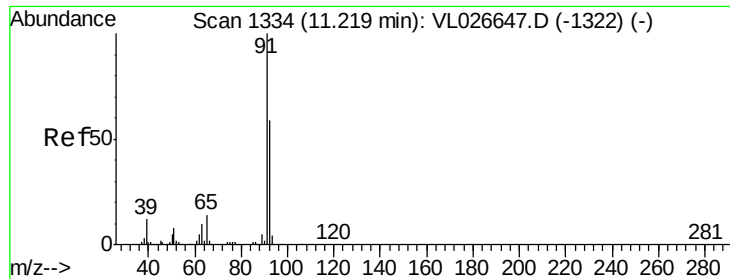
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#52
Tetrachloroethene
Concen: 8.88 ppbv
RT: 12.84 min Scan# 1599
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 164 Resp: 1171939
Ion Ratio Lower Upper
164 100
166 129.0 102.5 153.7
129 106.0 87.0 130.6
131 100.0 82.5 123.7





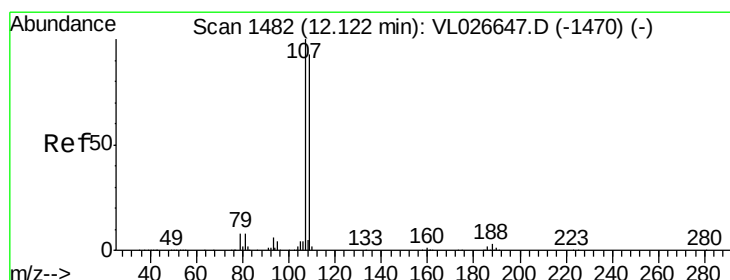
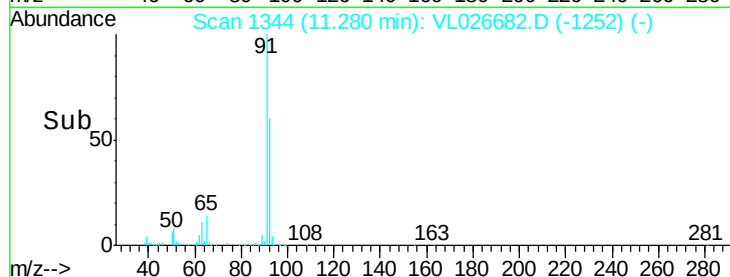
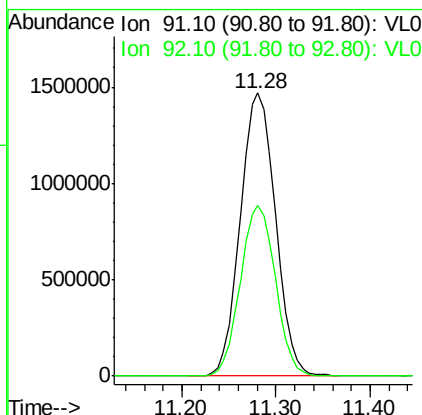
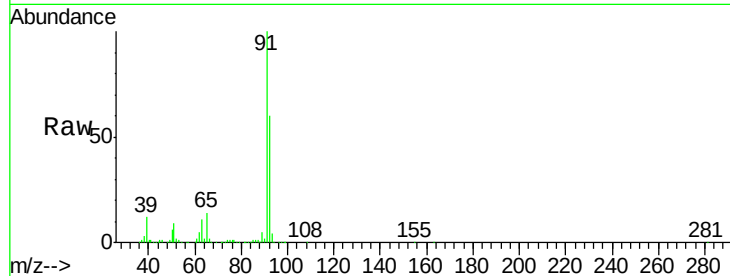
#53
Toluene
Concen: 10.30 ppbv
RT: 11.28 min Scan# 1344
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 3832478
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

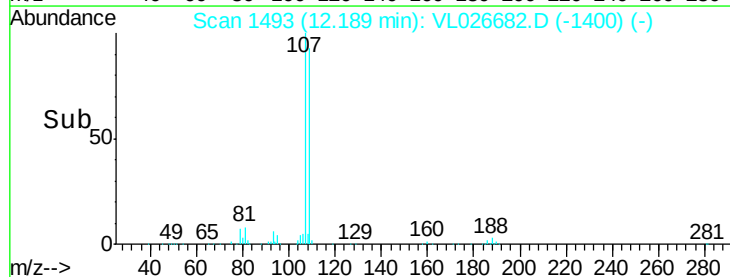
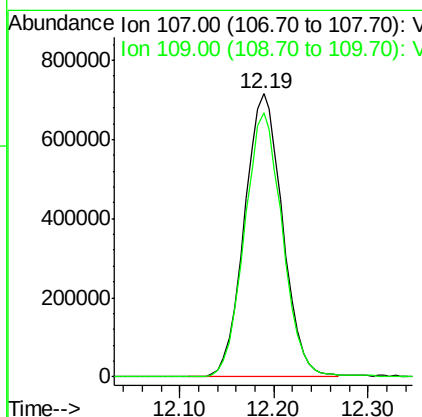
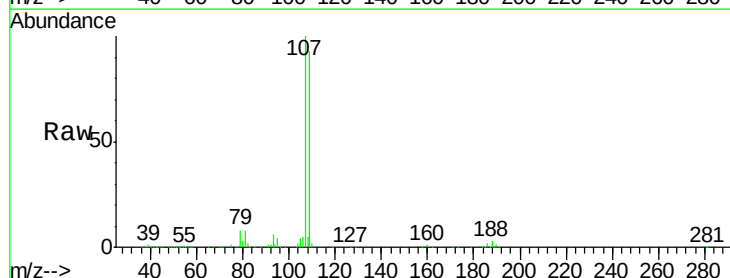
Manual Integrations
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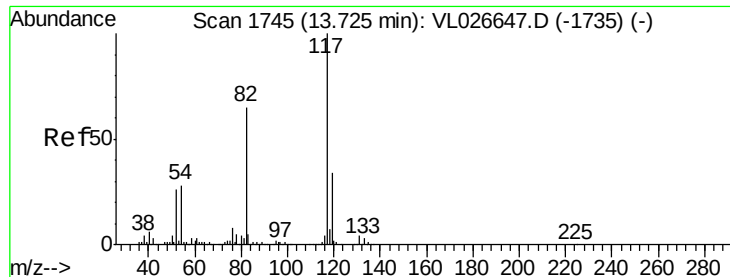
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#54
1,2-Dibromoethane
Concen: 9.83 ppbv
RT: 12.19 min Scan# 1493
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 107 Resp: 2024606
Ion Ratio Lower Upper
107 100
109 93.3 74.1 111.1





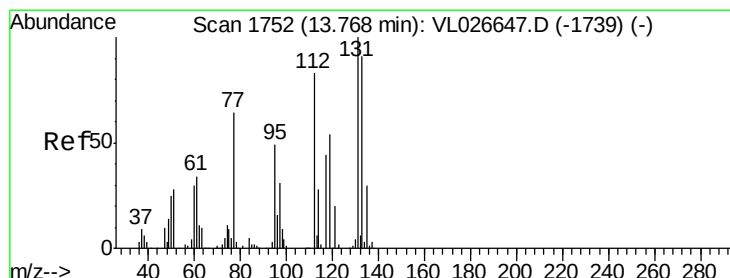
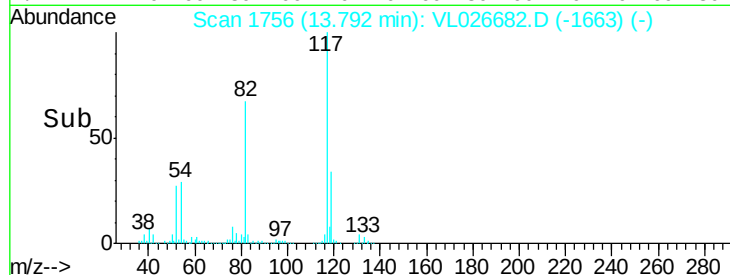
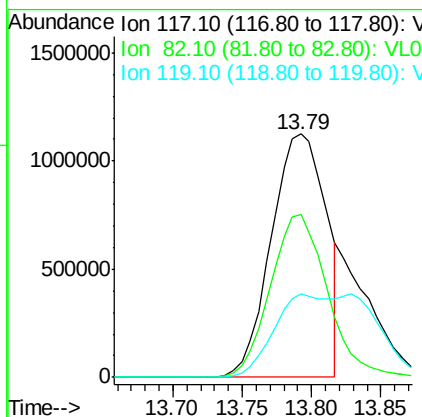
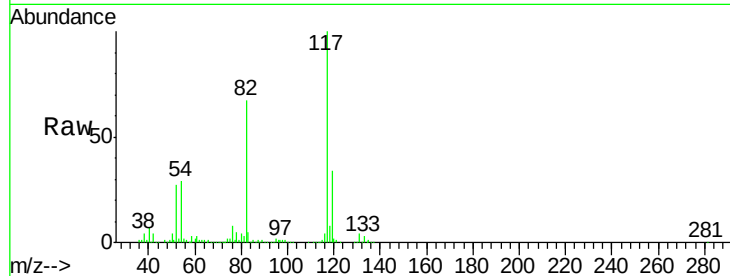
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.79 min Scan# 1756
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3105202
Ion Ratio Lower Upper
117 100
82 70.0 49.7 74.5
119 62.9 43.8 65.8

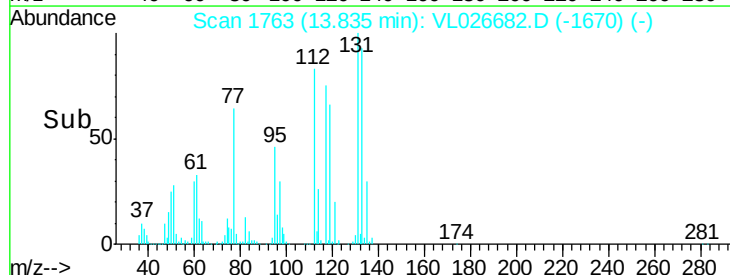
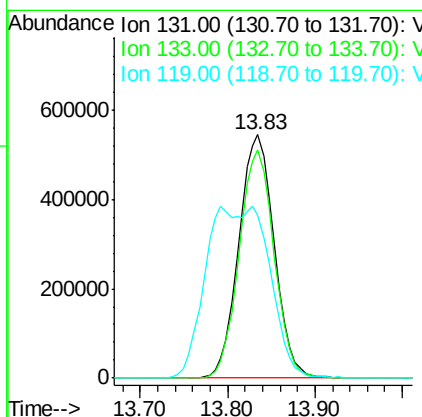
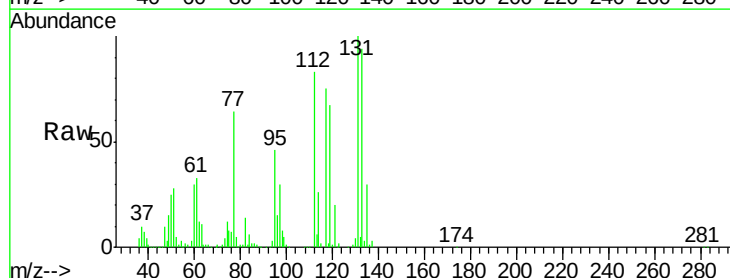
Manual Integrations
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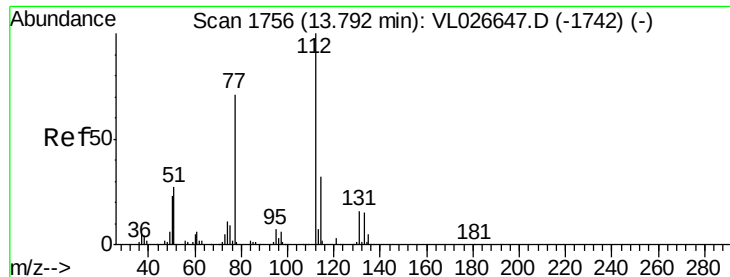
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.73 ppbv
RT: 13.83 min Scan# 1763
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion:131 Resp: 1533003
Ion Ratio Lower Upper
131 100
133 93.3 76.2 114.4
119 127.2 104.3 156.5





#57

Chlorobenzene

Concen: 9.88 ppbv

RT: 13.86 min Scan# 1767

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 3160312

Ion Ratio Lower Upper

112 100

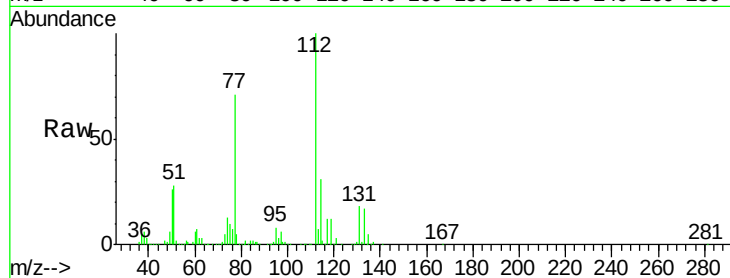
77 71.0 56.9 85.3

114 31.2 28.8 35.2

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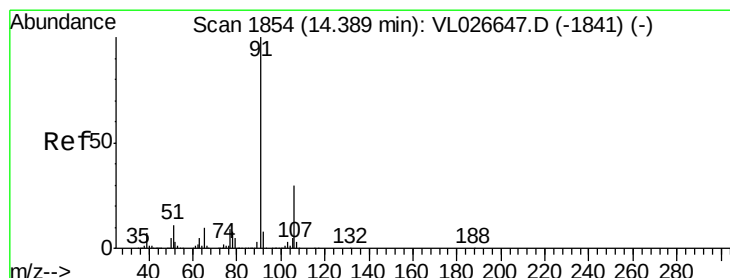
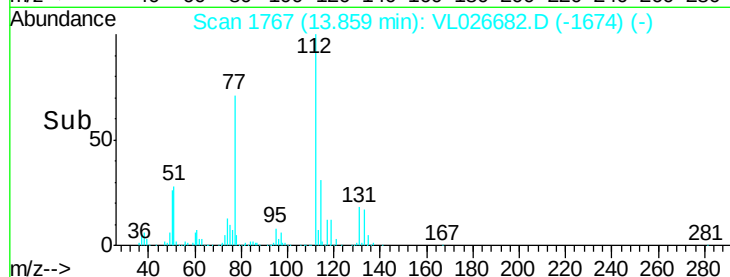
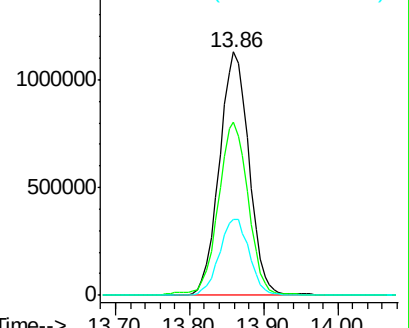
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.91 ppbv

RT: 14.46 min Scan# 1865

Delta R.T. 0.07 min

Lab File: VL026682.D

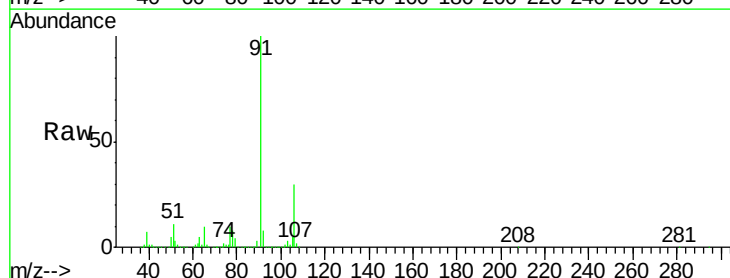
Acq: 12 Jan 2016 19:56

Tgt Ion: 91 Resp: 6052254

Ion Ratio Lower Upper

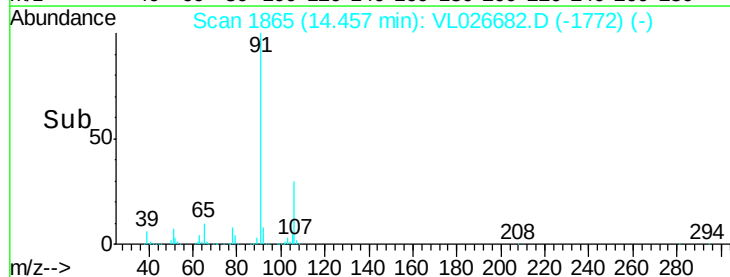
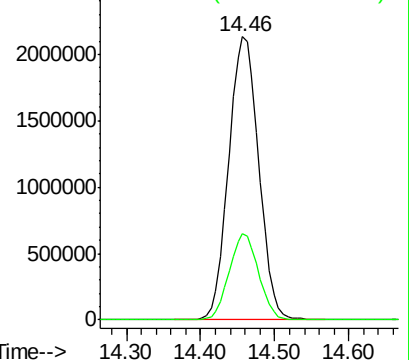
91 100

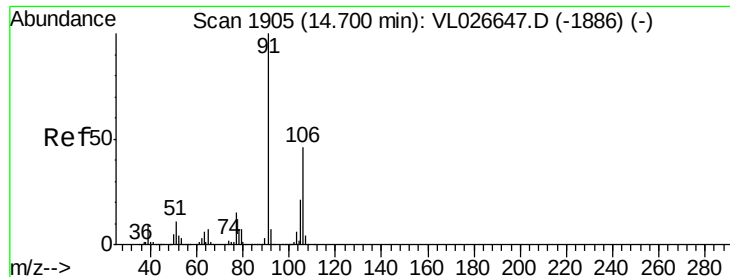
106 30.4 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





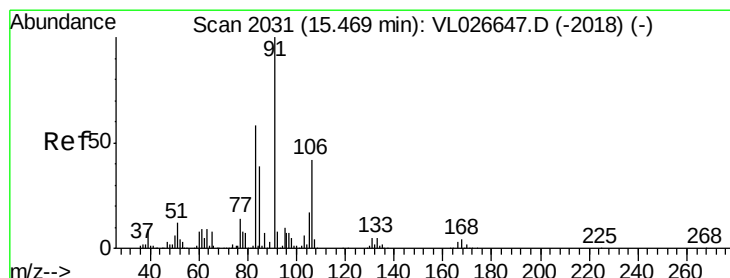
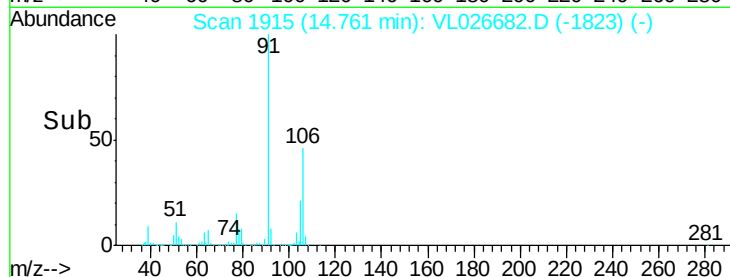
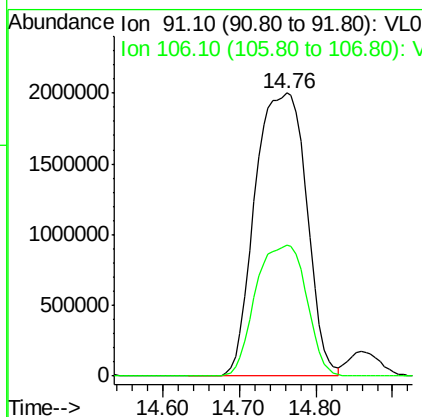
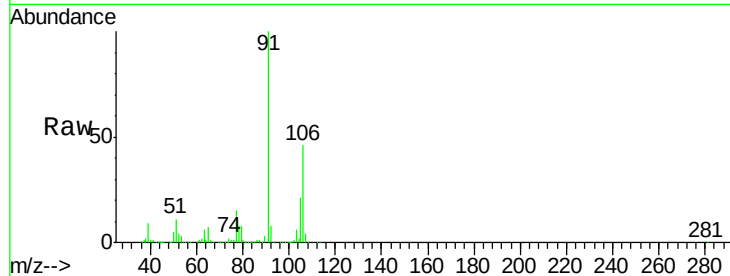
#59
m/p-Xylene
Concen: 20.41 ppbv
RT: 14.76 min Scan# 1915
Delta R.T. 0.06 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 9329271
Ion Ratio Lower Upper
91 100
106 45.9 36.6 55.0

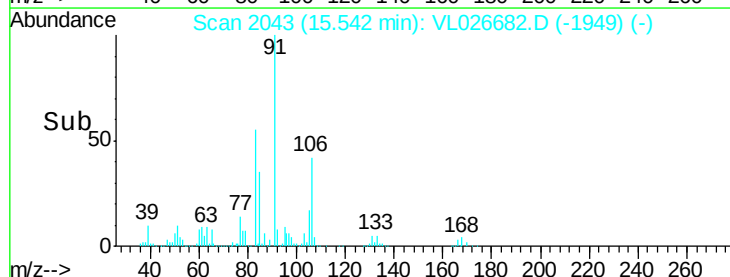
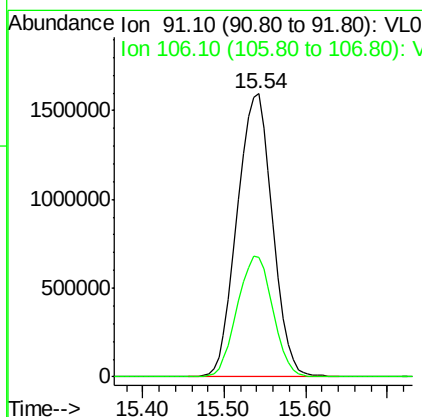
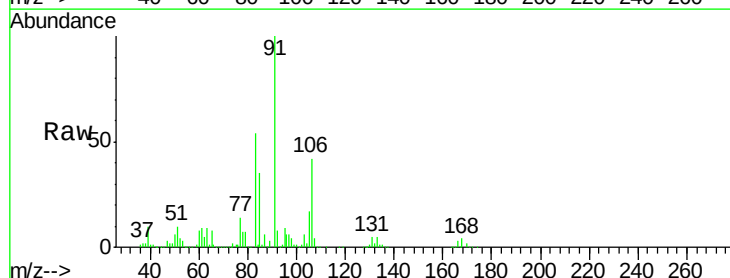
Manual Integrations
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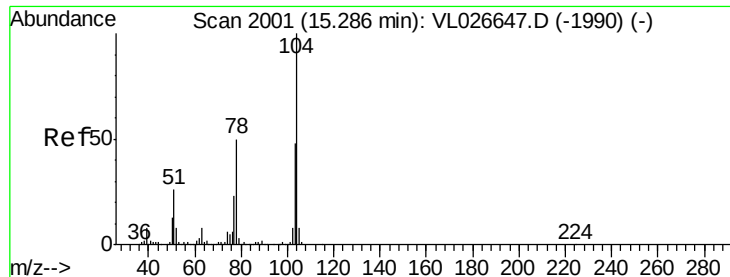
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#60
o-Xylene
Concen: 9.73 ppbv
RT: 15.54 min Scan# 2043
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 91 Resp: 4804259
Ion Ratio Lower Upper
91 100
106 43.3 21.5 64.5





#61

Stvrene

Concen: 11.74 ppbv

RT: 15.36 min Scan# 2013

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2265582

Ion Ratio Lower Upper

104 100

78 50.0 39.6 59.4

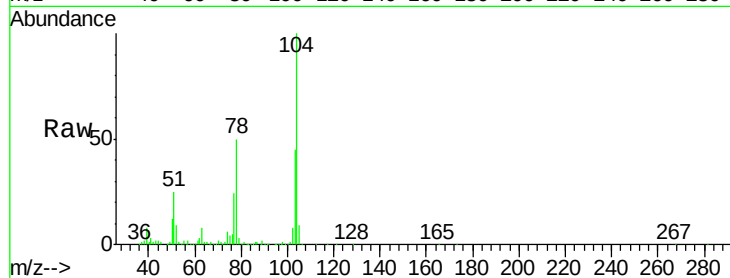
103 47.1 37.8 56.6

Manual Integrations

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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

1000000

800000

600000

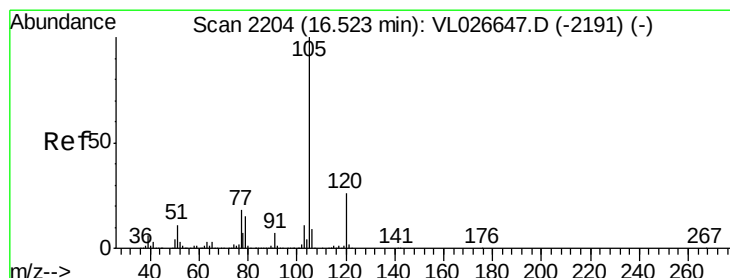
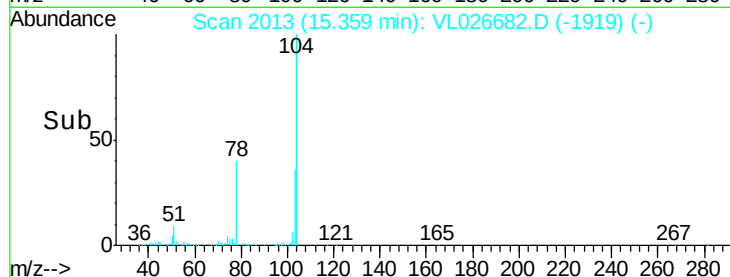
400000

200000

0

15.36

Time-->



#62

Isopropylbenzene

Concen: 10.25 ppbv

RT: 16.59 min Scan# 2215

Delta R.T. 0.07 min

Lab File: VL026682.D

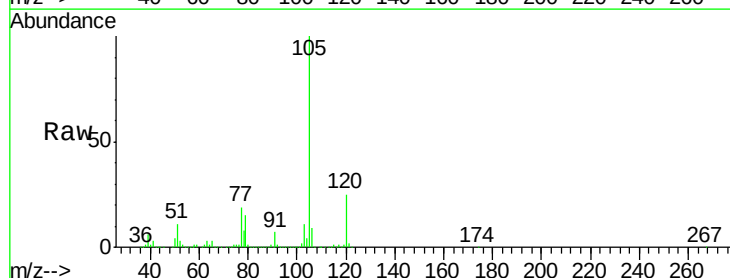
Acq: 12 Jan 2016 19:56

Tgt Ion:105 Resp: 6702054

Ion Ratio Lower Upper

105 100

120 25.4 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2500000

2000000

1500000

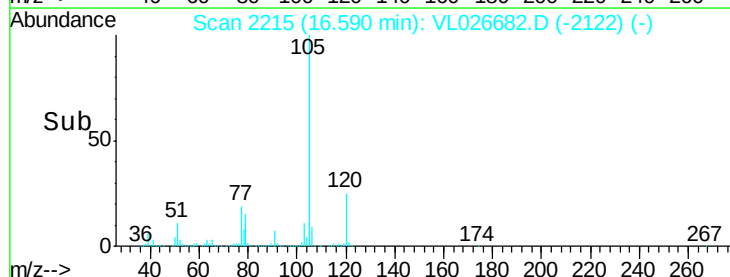
1000000

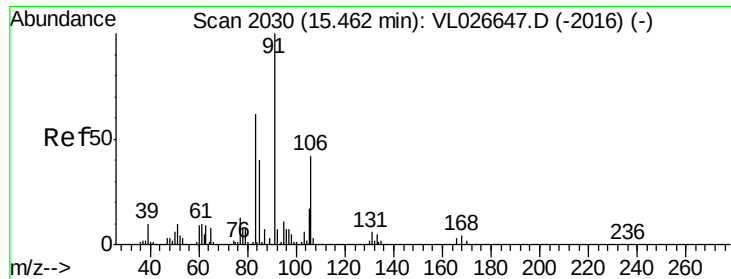
500000

0

16.59

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 8.24 ppbv

RT: 15.54 min Scan# 2042

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 3034477

Ion Ratio Lower Upper

83 100

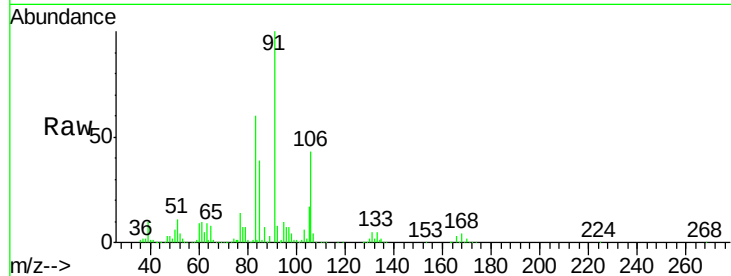
131 8.9 4.5 13.4

85 64.4 32.6 97.7

Manual Integrations
APPROVED

apatel

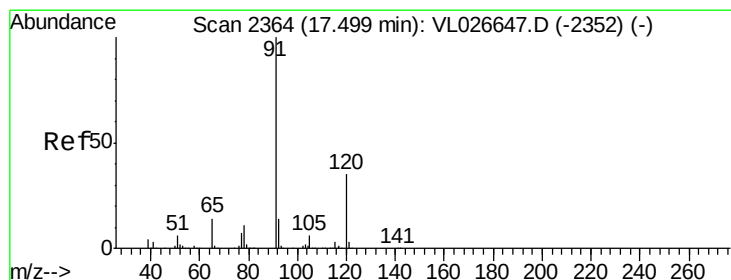
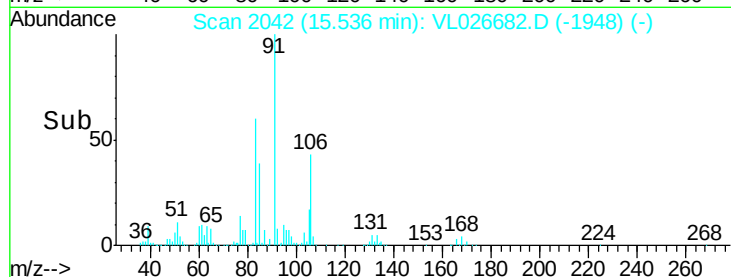
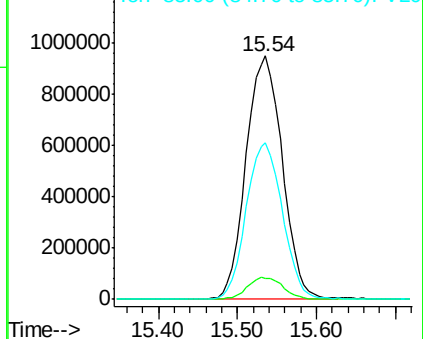
1/13/2016 2:18:38 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.00 ppbv

RT: 17.57 min Scan# 2375

Delta R.T. 0.07 min

Lab File: VL026682.D

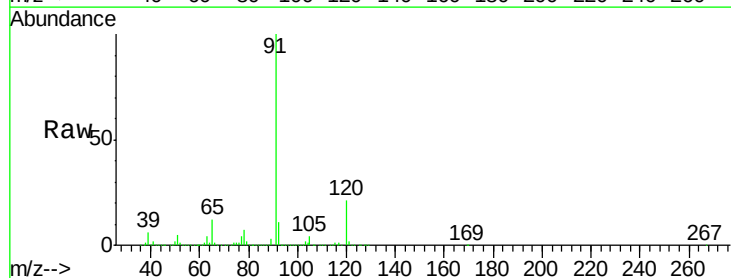
Acq: 12 Jan 2016 19:56

Tgt Ion:120 Resp: 1753340

Ion Ratio Lower Upper

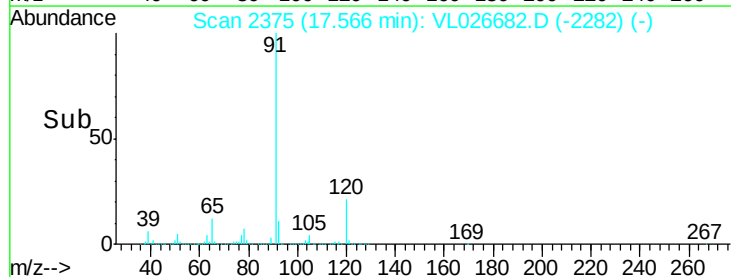
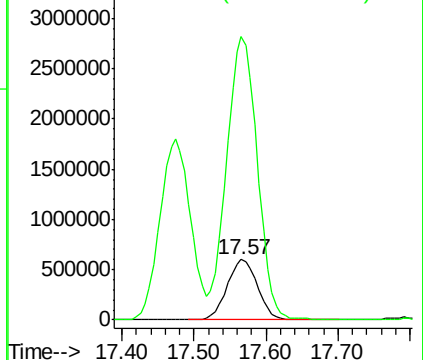
120 100

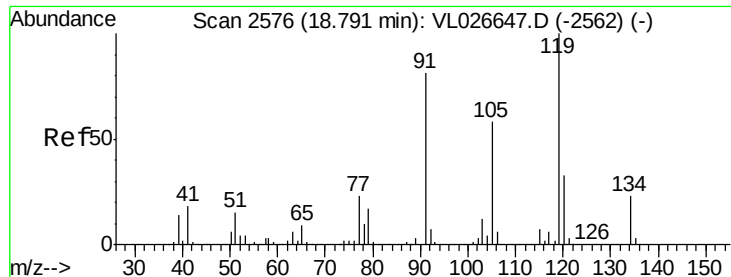
91 471.7 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





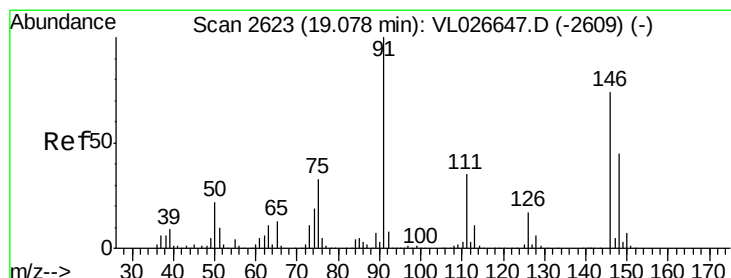
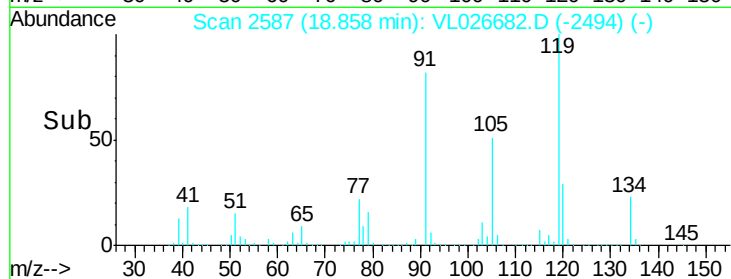
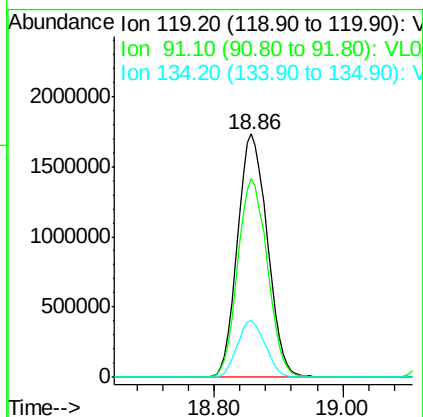
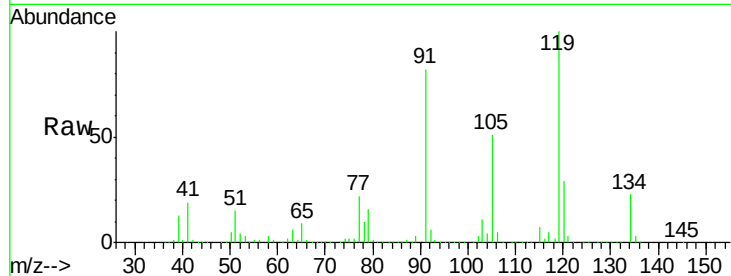
#65
tert-Butylbenzene
Concen: 9.25 ppbv
RT: 18.86 min Scan# 2587
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 5542444
Ion Ratio Lower Upper
119 100
91 81.1 64.8 97.2
134 22.2 17.4 26.0

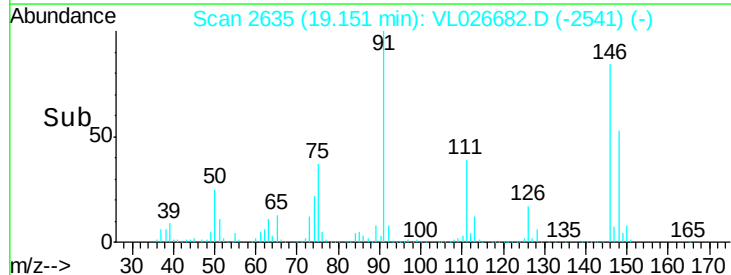
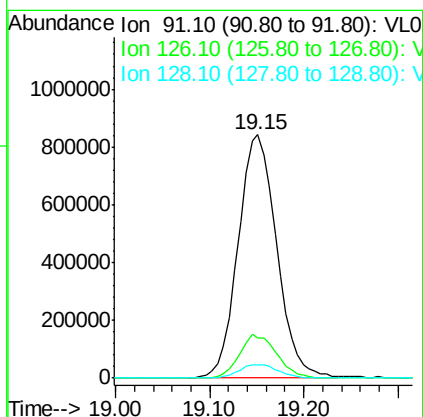
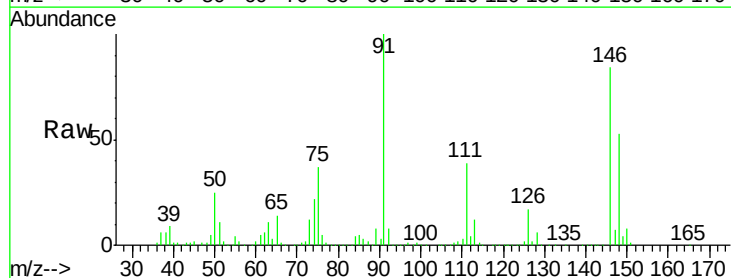
Manual Integrations
APPROVED

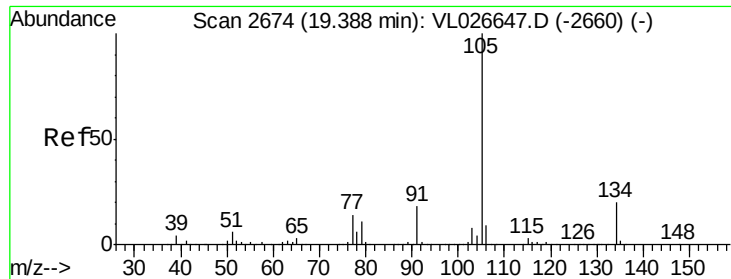
apatel
1/13/2016 2:18:38 PM



#66
Benzyl Chloride
Concen: 11.16 ppbv
RT: 19.15 min Scan# 2635
Delta R.T. 0.07 min
Lab File: VL026682.D
Acq: 12 Jan 2016 19:56

Tgt Ion: 91 Resp: 2390393
Ion Ratio Lower Upper
91 100
126 17.5 14.2 21.2
128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.57 ppbv

RT: 19.46 min Scan# 2685

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 8508226

Ion Ratio Lower Upper

105 100

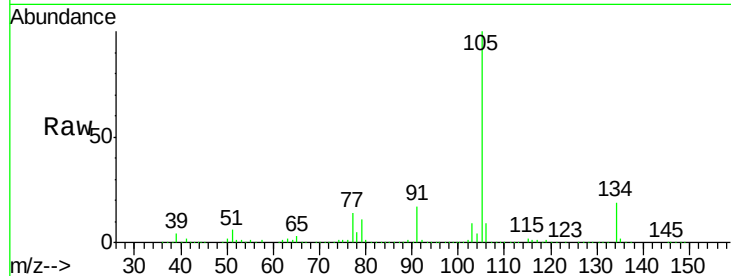
134 18.7 14.9 22.3

Manual Integrations

APPROVED

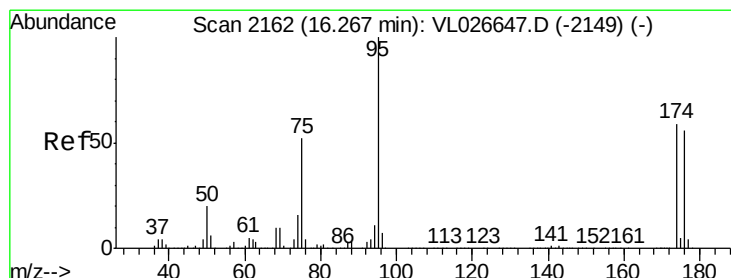
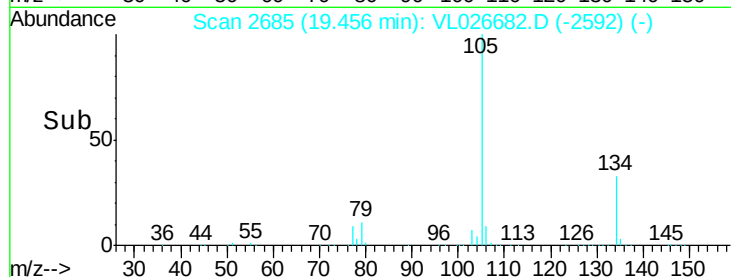
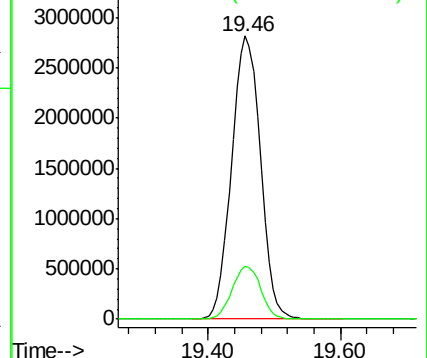
apatel

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.75 ppbv

RT: 16.33 min Scan# 2173

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

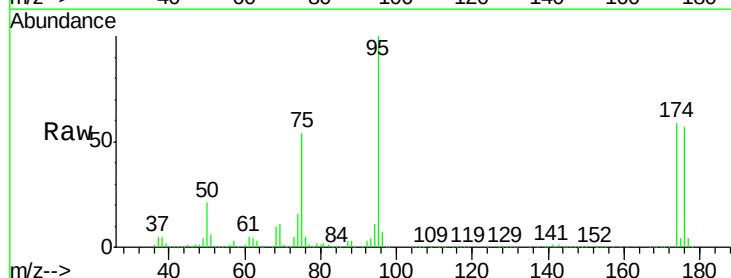
Tgt Ion: 95 Resp: 2659622

Ion Ratio Lower Upper

95 100

174 60.6 47.8 71.8

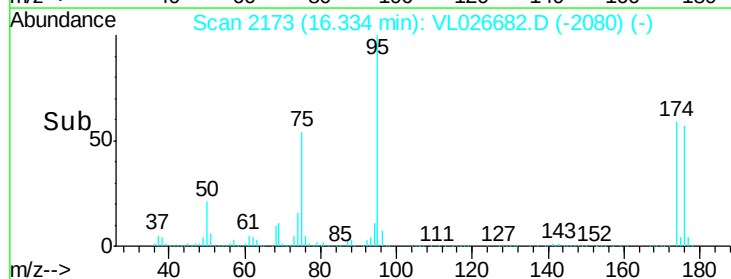
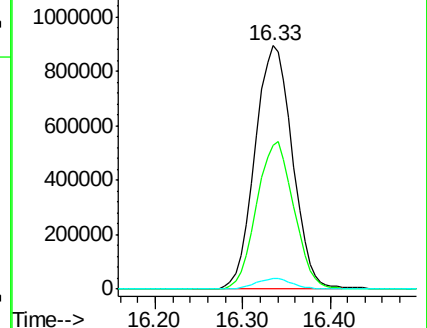
175 4.4 3.6 5.4

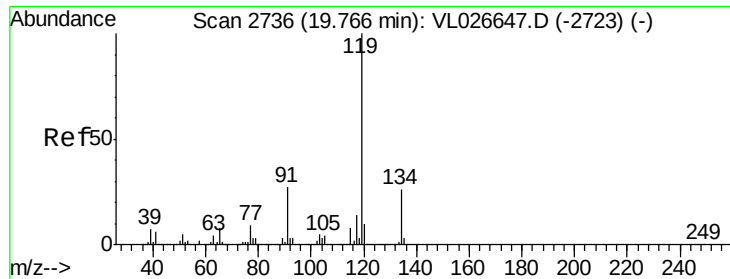


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





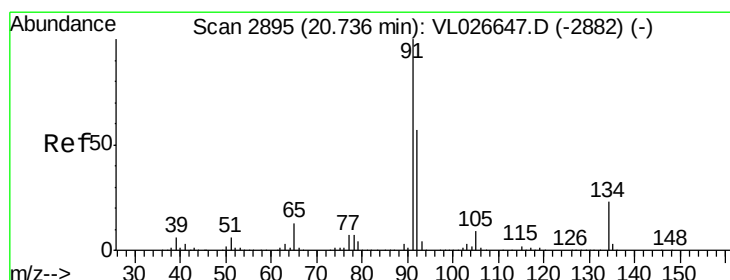
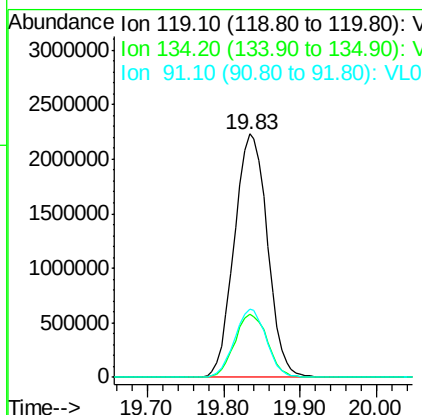
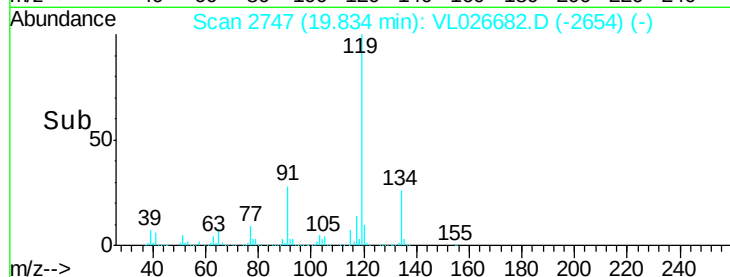
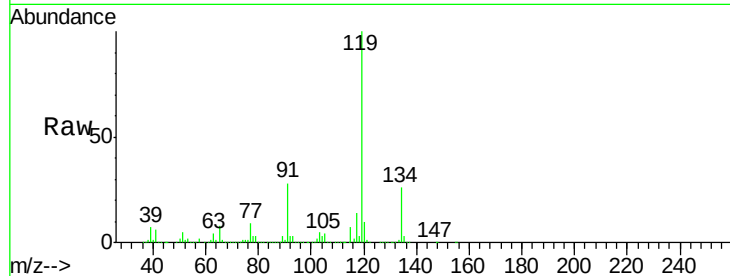
#69
 p-Isopropyltoluene
 Concen: 9.84 ppbv
 RT: 19.83 min Scan# 2747
 Delta R.T. 0.07 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 6690544
 Ion Ratio Lower Upper
 119 100
 134 25.8 20.6 31.0
 91 26.9 21.7 32.5

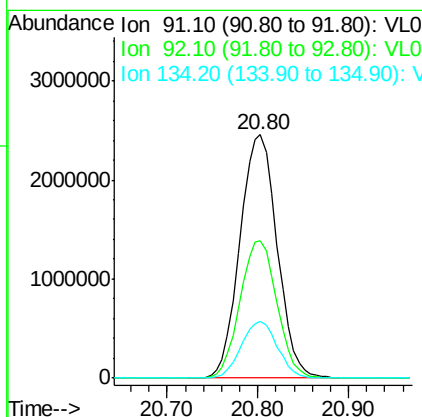
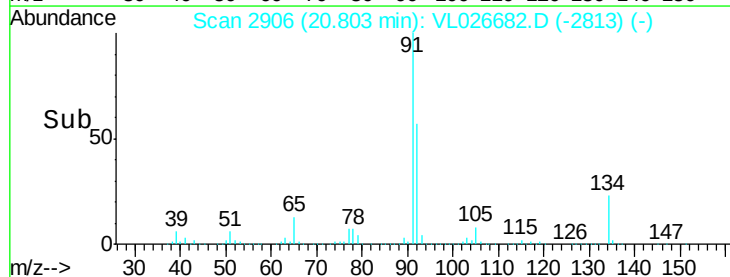
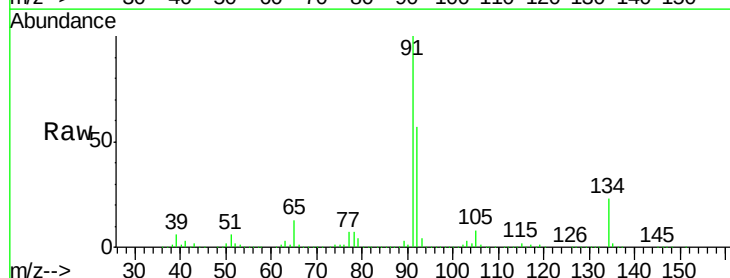
Manual Integrations
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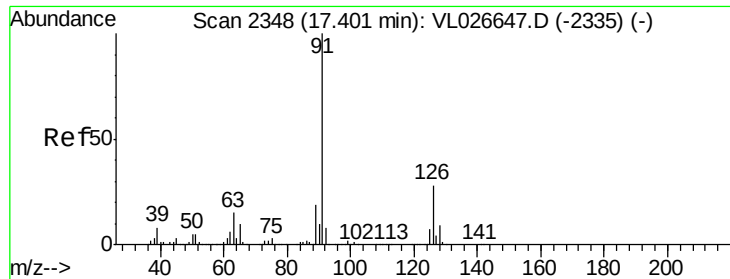
apatel
 1/13/2016 2:18:38 PM



#70
 n-Butylbenzene
 Concen: 9.84 ppbv
 RT: 20.80 min Scan# 2906
 Delta R.T. 0.07 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion: 91 Resp: 6967155
 Ion Ratio Lower Upper
 91 100
 92 56.1 45.0 67.4
 134 22.9 18.2 27.2





#71

2-Chlorotoluene

Concen: 10.43 ppbv

RT: 17.47 min Scan# 2360

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5314368

Ion Ratio Lower Upper

91 100

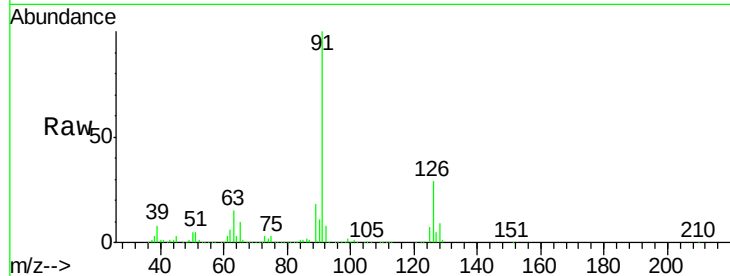
126 29.0 11.4 45.8

Manual Integrations

APPROVED

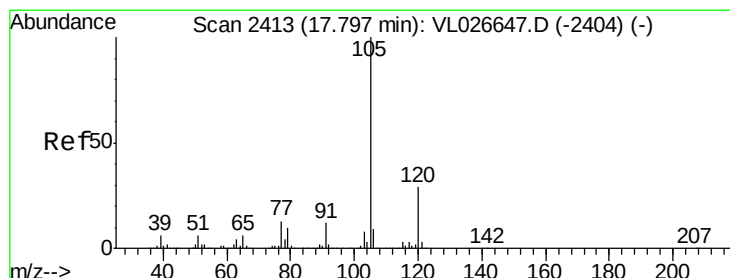
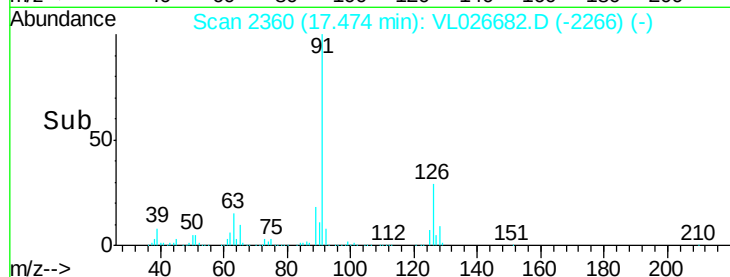
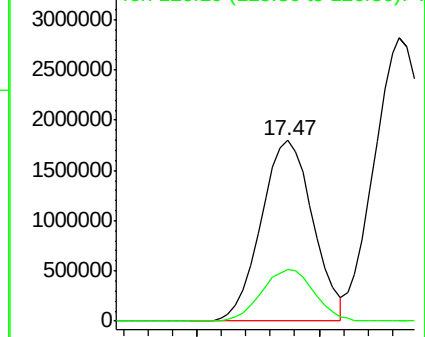
apatel

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.38 ppbv

RT: 17.86 min Scan# 2424

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Tgt Ion: 105 Resp: 5730241

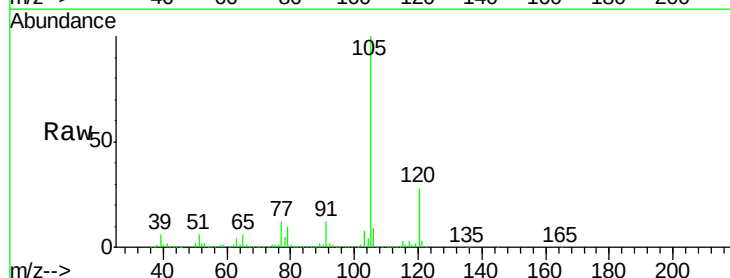
Ion Ratio Lower Upper

105 100

120 29.6 23.7 35.5

91 12.0 9.7 14.5

77 13.0 10.3 15.5

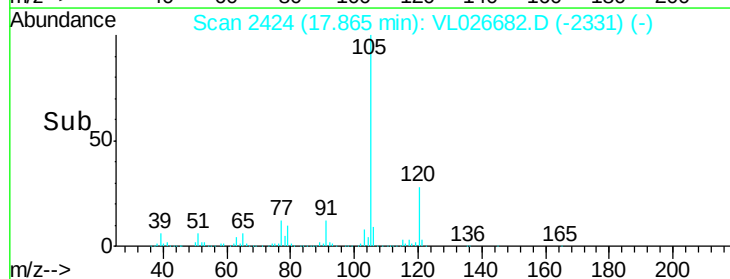
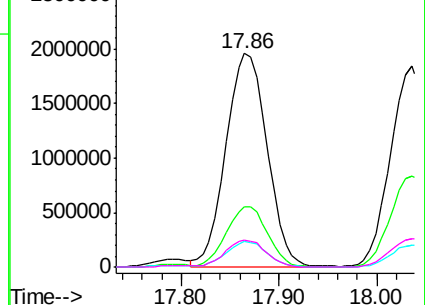


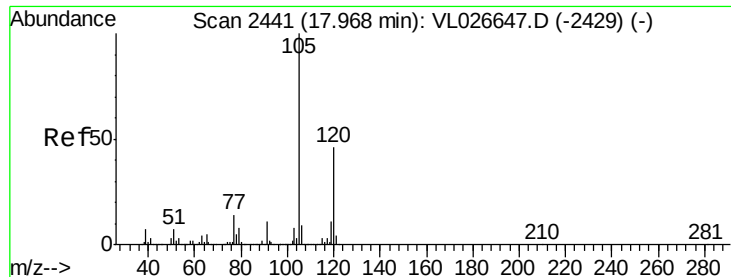
Abundance Ion 105.10 (104.80 to 105.80): V

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: 10.11 ppbv

RT: 18.04 min Scan# 2452

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 5290718

Ion Ratio Lower Upper

105 100

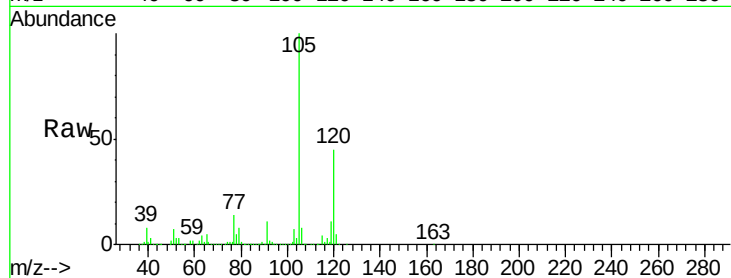
120 45.4 36.6 54.8

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

18.04

2000000

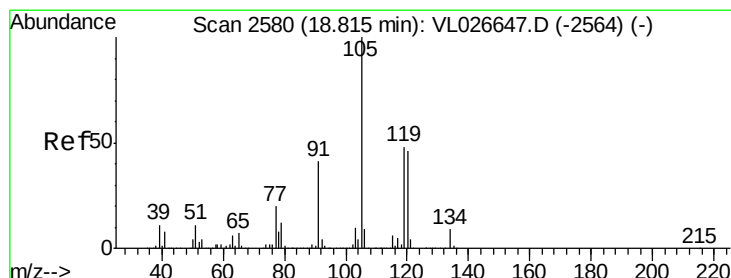
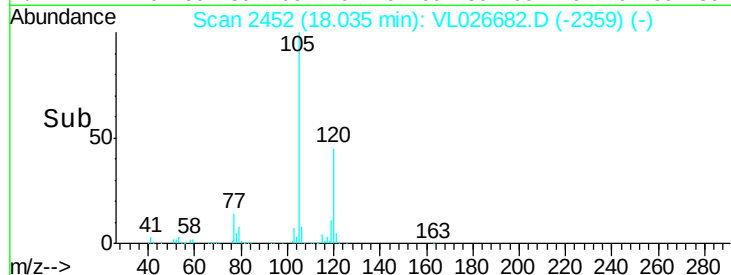
1500000

1000000

500000

0

Time--> 17.90 18.00 18.10



#74

1,2,4-Trimethylbenzene

Concen: 9.16 ppbv

RT: 18.88 min Scan# 2591

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Tgt Ion:105 Resp: 5091304

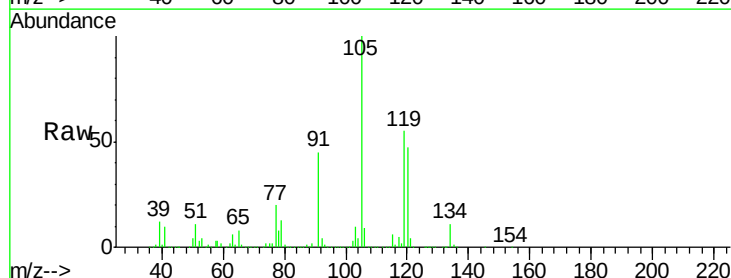
Ion Ratio Lower Upper

105 100

120 46.6 36.6 55.0

91 44.5 32.5 48.7

77 19.9 15.7 23.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

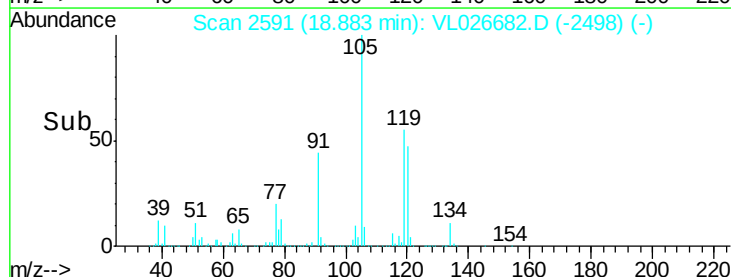
1500000

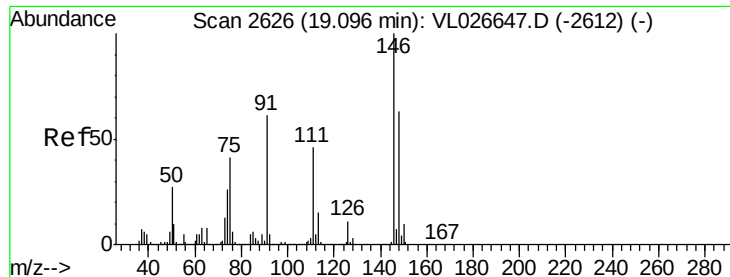
1000000

500000

0

Time--> 18.80 18.90 19.00





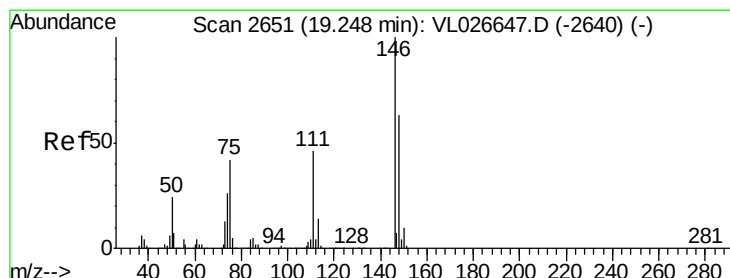
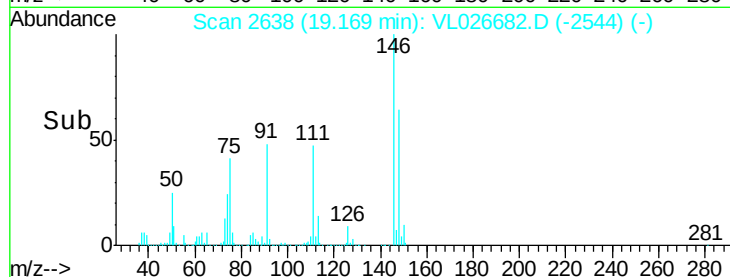
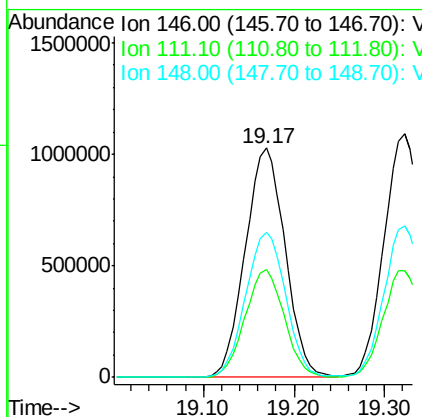
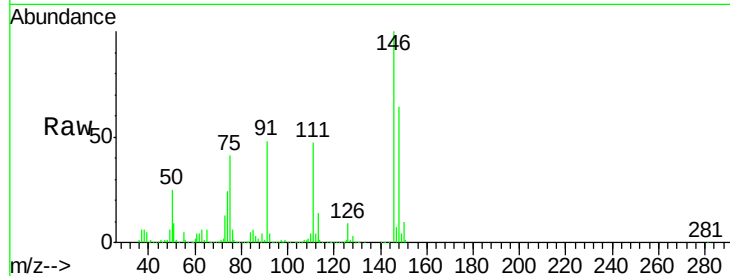
#75
 1,3-Dichlorobenzene
 Concen: 9.15 ppbv
 RT: 19.17 min Scan# 2638
 Delta R.T. 0.07 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.9	68.5
148	63.5	31.6	95.0

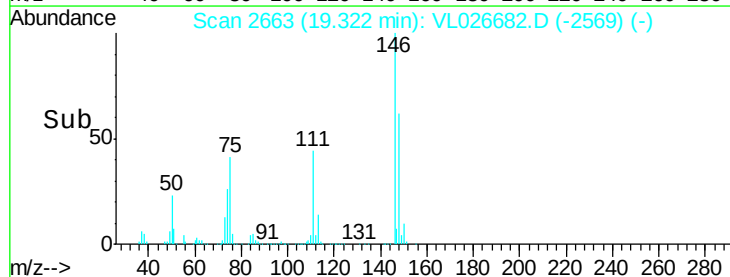
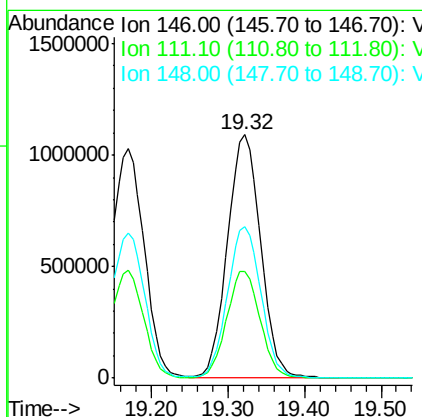
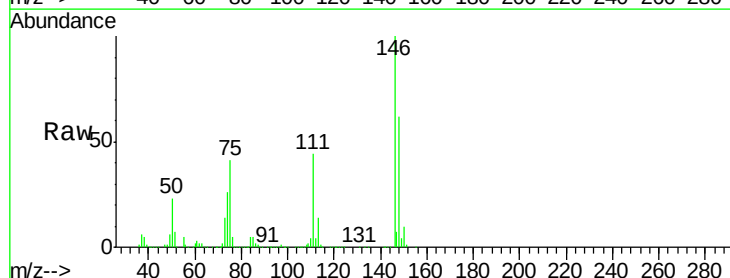
Manual Integrations
 APPROVED

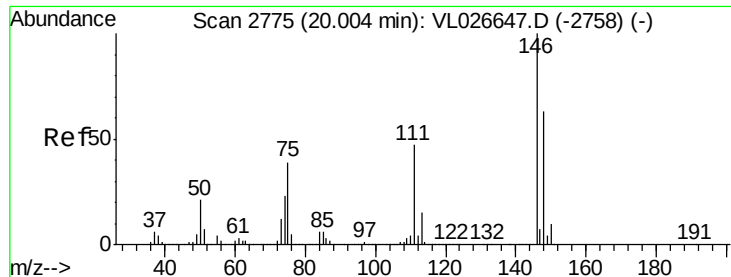
apatel
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#76
 1,4-Dichlorobenzene
 Concen: 9.32 ppbv
 RT: 19.32 min Scan# 2663
 Delta R.T. 0.07 min
 Lab File: VL026682.D
 Acq: 12 Jan 2016 19:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.3	66.8
148	63.1	31.9	95.9





#77

1,2-Dichlorobenzene

Concen: 9.35 ppbv

RT: 20.07 min Scan# 2786

Delta R.T. 0.07 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3258560

Ion Ratio Lower Upper

146 100

111 47.7 23.7 71.1

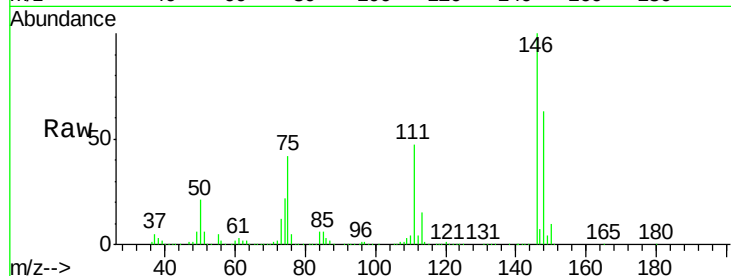
148 63.6 31.1 93.5

Manual Integrations

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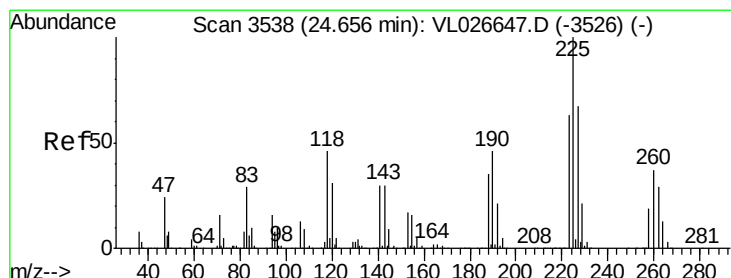
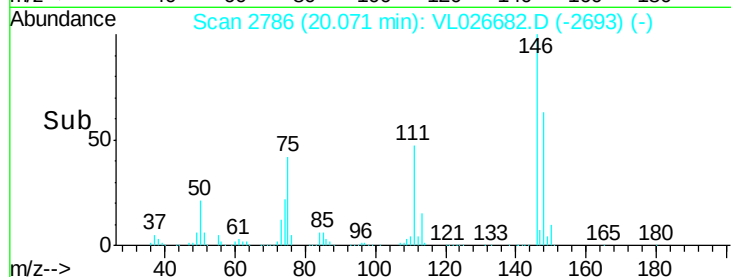
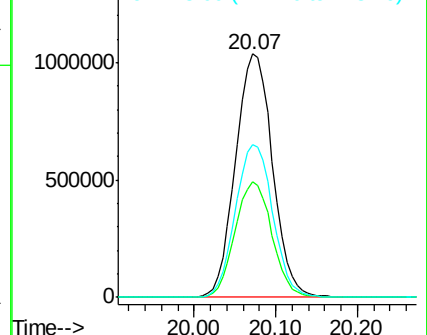
1/13/2016 2:18:38 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.10 ppbv

RT: 24.71 min Scan# 3547

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

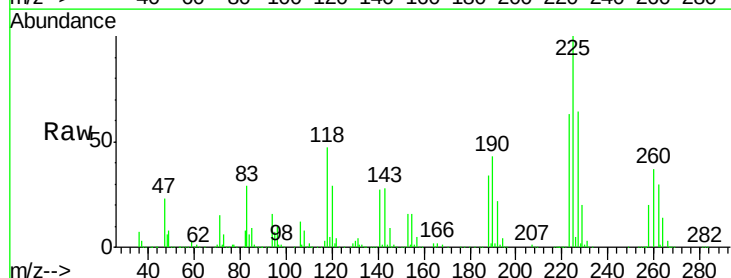
Tgt Ion:225 Resp: 1293936

Ion Ratio Lower Upper

225 100

223 62.9 50.1 75.1

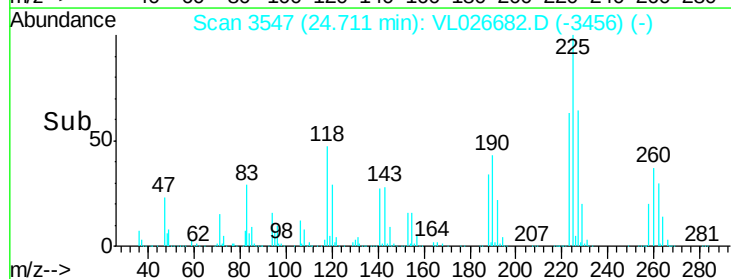
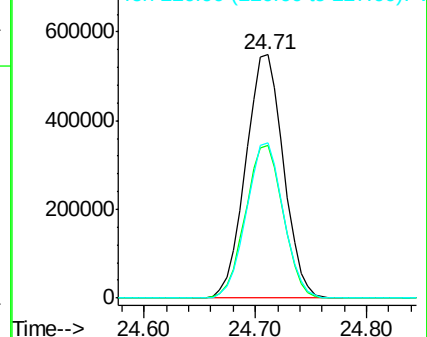
227 62.7 51.1 76.7

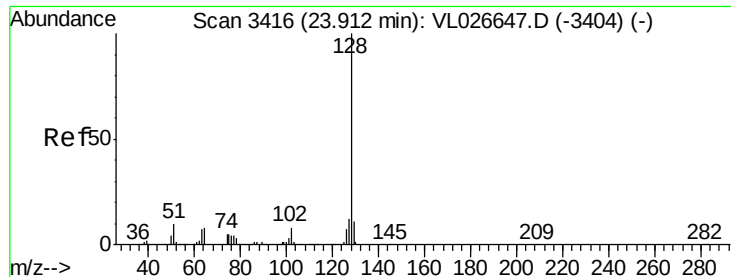


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.89 ppbv

RT: 23.97 min Scan# 3425

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3708333

Ion Ratio Lower Upper

128 100

127 12.6 9.8 14.8

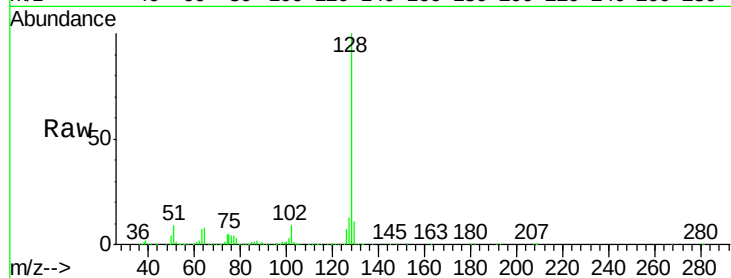
129 11.0 8.9 13.3

Manual Integrations

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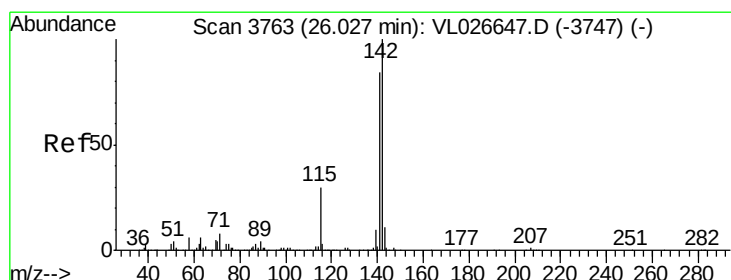
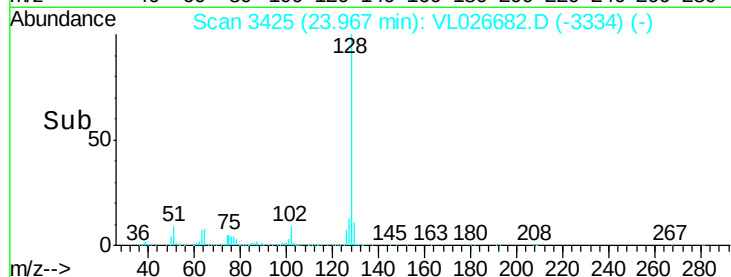
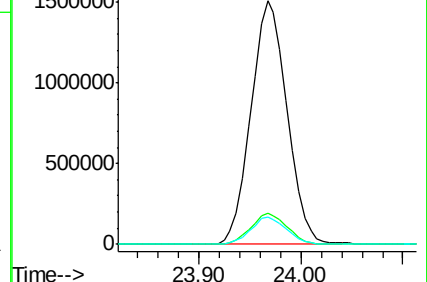
1/13/2016 2:18:38 PM



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: 11.47 ppbv

RT: 26.08 min Scan# 3772

Delta R.T. 0.05 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

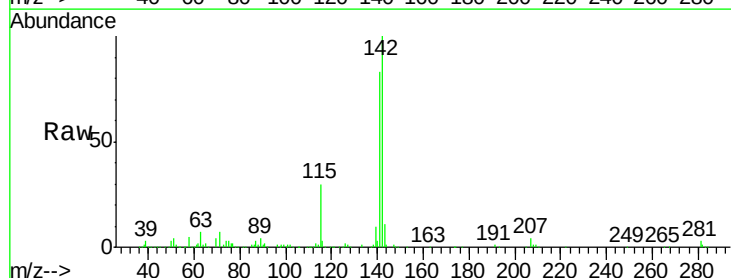
Tgt Ion:142 Resp: 668191

Ion Ratio Lower Upper

142 100

141 83.0 67.0 100.6

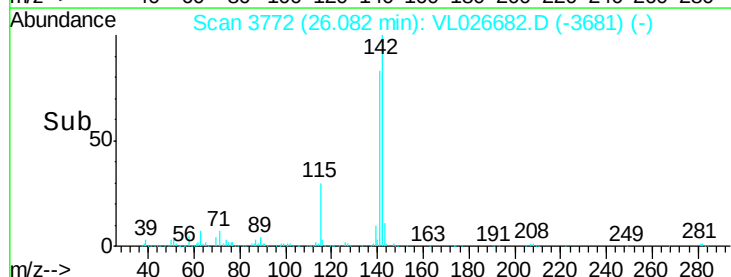
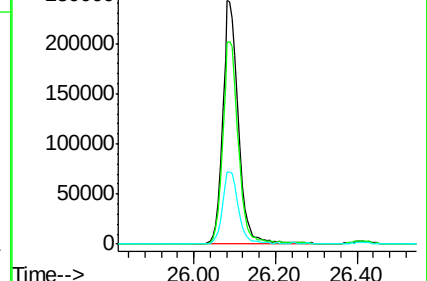
115 30.6 24.7 37.1

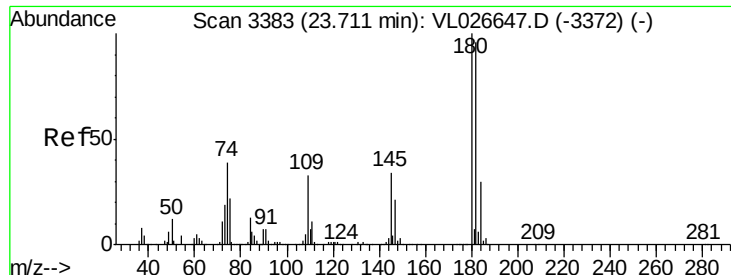


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 9.68 ppbv

RT: 23.77 min Scan# 3393

Delta R.T. 0.06 min

Lab File: VL026682.D

Acq: 12 Jan 2016 19:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:180 Resp: 1653672

Ion Ratio Lower Upper

180 100

182 96.9 75.4 113.0

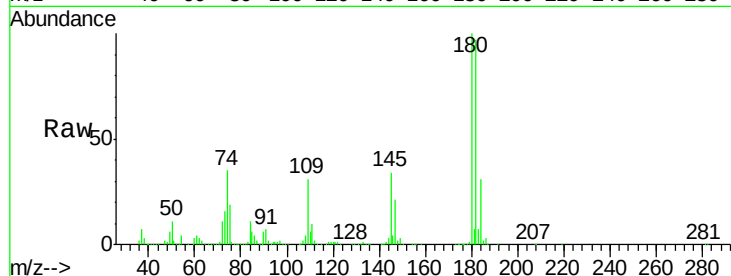
184 30.3 24.1 36.1

Manual Integrations

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Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

