

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026648.D
 Acq On : 8 Jan 2016 16:06
 Operator : SY/AP
 Sample : VSTDICC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

apatel
 1/11/2016 4:59:37 PM

Quant Time: Jan 08 22:29:15 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 08 22:29:15 2016
 QLast Update : Fri Jan 08 22:06:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	1105099	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	3047625	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	3874073	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.25	95	2936000	9.40	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.63	85	562899	1.92	ppbv	98
3) Chlorodifluoromethane	3.56	51	296976	2.13	ppbv	93
4) Chloromethane	3.74	50	151598	2.10	ppbv	98
5) Vinyl Chloride	3.87	62	163362	2.01	ppbv	99
6) Bromomethane	4.13	94	119086	1.95	ppbv	97
7) Chloroethane	4.23	64	70262	1.93	ppbv	98
8) Dichlorotetrafluoroethane	3.79	85	446058	1.99	ppbv	97
9) Propene	3.59	41	119262	2.23	ppbv	98
10) Heptane	9.33	43	421860	2.18	ppbv	98
11) Trichlorofluoromethane	4.68	101	551307	1.89	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.29	101	351534	1.97	ppbv	98
13) Ethanol	4.32	45	24277	2.15	ppbv	96
14) Bromoethene	4.44	108	129051	1.91	ppbv	98
15) Acetone	4.59	43	378395	2.34	ppbv #	78
16) 1,3-Butadiene	3.96	39	148917	2.06	ppbv	97
17) tert-Butyl alcohol	5.12	59	231673	1.54	ppbv	98
18) 1,1-Dichloroethene	5.07	96	152796	1.98	ppbv	90
19) Isopropyl Alcohol	4.75	45	148598	1.68	ppbv #	1
20) Methylene Chloride	5.14	84	147406	2.10	ppbv	99
21) Allyl Chloride	5.21	41	226068	2.03	ppbv	92
22) trans-1,2-Dichloroethene	5.74	96	174009	1.96	ppbv	97
23) Vinyl Acetate	5.96	43	596204	2.04	ppbv	97
24) 1,1-Dichloroethane	5.89	63	396476	2.02	ppbv	98
25) Ethyl Acetate	6.65	43	593655	2.10	ppbv	100
26) Hexane	6.64	57	306190	2.16	ppbv	98
27) Carbon Disulfide	5.37	76	422438	1.88	ppbv	97
28) Methyl tert-Butyl Ether	5.94	73	569854	1.95	ppbv	99
29) Chloroform	6.73	83	494512	1.96	ppbv	100
30) Cyclohexane	8.26	84	298532	2.07	ppbv	89
31) cis-1,2-Dichloroethene	6.49	61	296238	1.97	ppbv	97
32) 1,1,1-Trichloroethane	7.57	97	511569	1.88	ppbv	100
34) 2-Butanone	6.18	43	356685	2.23	ppbv	97
35) Carbon Tetrachloride	8.14	117	486475	1.94	ppbv	96
36) Benzene	8.00	78	693778	2.25	ppbv	97
37) 1,2-Dichloroethane	7.35	62	421655	2.01	ppbv	100
38) Trichloroethene	9.04	130	276804	2.32	ppbv	98
39) 1,2-Dichloropropane	8.80	63	235109	2.21	ppbv	99
40) 1,4-Dioxane	9.12	88	60054	1.78	ppbv #	27
41) Tetrahydrofuran	7.12	42	188540	2.23	ppbv	96
42) Bromodichloromethane	9.00	83	564530	2.07	ppbv	98
43) Methyl Methacrylate	9.24	69	248534	2.05	ppbv	99

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026648.D
 Acq On : 8 Jan 2016 16:06
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

apatel
 1/11/2016 4:59:37 PM

Quant Time: Jan 08 22:29:15 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 08
 QLast Update : Fri Jan 08 22:06:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.06	57	1149760	2.38	ppbv	97
45) t-1,3-Dichloropropene	10.62	75	389773	1.87	ppbv	96
46) cis-1,3-Dichloropropene	9.99	75	448988	1.99	ppbv	97
47) 1,1,2-Trichloroethane	10.85	97	321890	2.17	ppbv	96
48) Dibromochloromethane	11.77	129	465322	1.98	ppbv	99
49) Bromoform	14.79	173	386092	1.97	ppbv	99
50) 4-Methyl-2-Pentanone	10.07	43	507275	2.15	ppbv	99
51) 2-Hexanone	11.60	43	488981	2.12	ppbv #	100
52) Tetrachloroethene	12.76	164	302388	2.25	ppbv	95
53) Toluene	11.21	91	961868	2.19	ppbv	100
54) 1,2-Dibromoethane	12.12	107	502512	2.15	ppbv	96
56) 1,1,1,2-Tetrachloroethane	13.76	131	370485	2.17	ppbv #	1
57) Chlorobenzene	13.79	112	841622	2.33	ppbv	95
58) Ethyl Benzene	14.38	91	1530788	2.21	ppbv	98
59) m/p-Xylene	14.66	91	2467665m	4.60	ppbv	
60) o-Xylene	15.46	91	1319169	2.38	ppbv	98
61) Styrene	15.28	104	537590	2.03	ppbv	99
62) Isopropylbenzene	16.52	105	1746676	2.26	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.45	83	885326	2.49	ppbv	100
64) n-propylbenzene	17.49	120	457696	2.23	ppbv	93
65) tert-Butylbenzene	18.78	119	1683558	2.61	ppbv	94
66) Benzyl Chloride	19.08	91	565884	1.89	ppbv	99
67) sec-Butylbenzene	19.38	105	2373471	2.37	ppbv	99
69) p-Isopropyltoluene	19.76	119	1841423	2.34	ppbv	99
70) n-Butylbenzene	20.73	91	1943007	2.34	ppbv	98
71) 2-Chlorotoluene	17.39	91	1376532	2.19	ppbv	99
72) 4-Ethyltoluene	17.79	105	1493975	2.21	ppbv	100
73) 1,3,5-Trimethylbenzene	17.96	105	1394626	2.25	ppbv	96
74) 1,2,4-Trimethylbenzene	18.80	105	1495917	2.47	ppbv	96
75) 1,3-Dichlorobenzene	19.09	146	887677	2.35	ppbv	97
76) 1,4-Dichlorobenzene	19.24	146	905883	2.28	ppbv	99
77) 1,2-Dichlorobenzene	20.00	146	903240	2.29	ppbv	99
78) Hexachloro-1,3-Butadiene	24.65	225	381726	2.43	ppbv	99
79) Naphthalene	23.91	128	1036539	2.19	ppbv	98
80) Naphthalene, 2-methyl-	26.02	142	146533	1.21	ppbv #	93
81) 1,2,4-Trichlorobenzene	23.71	180	466941	2.28	ppbv	99

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

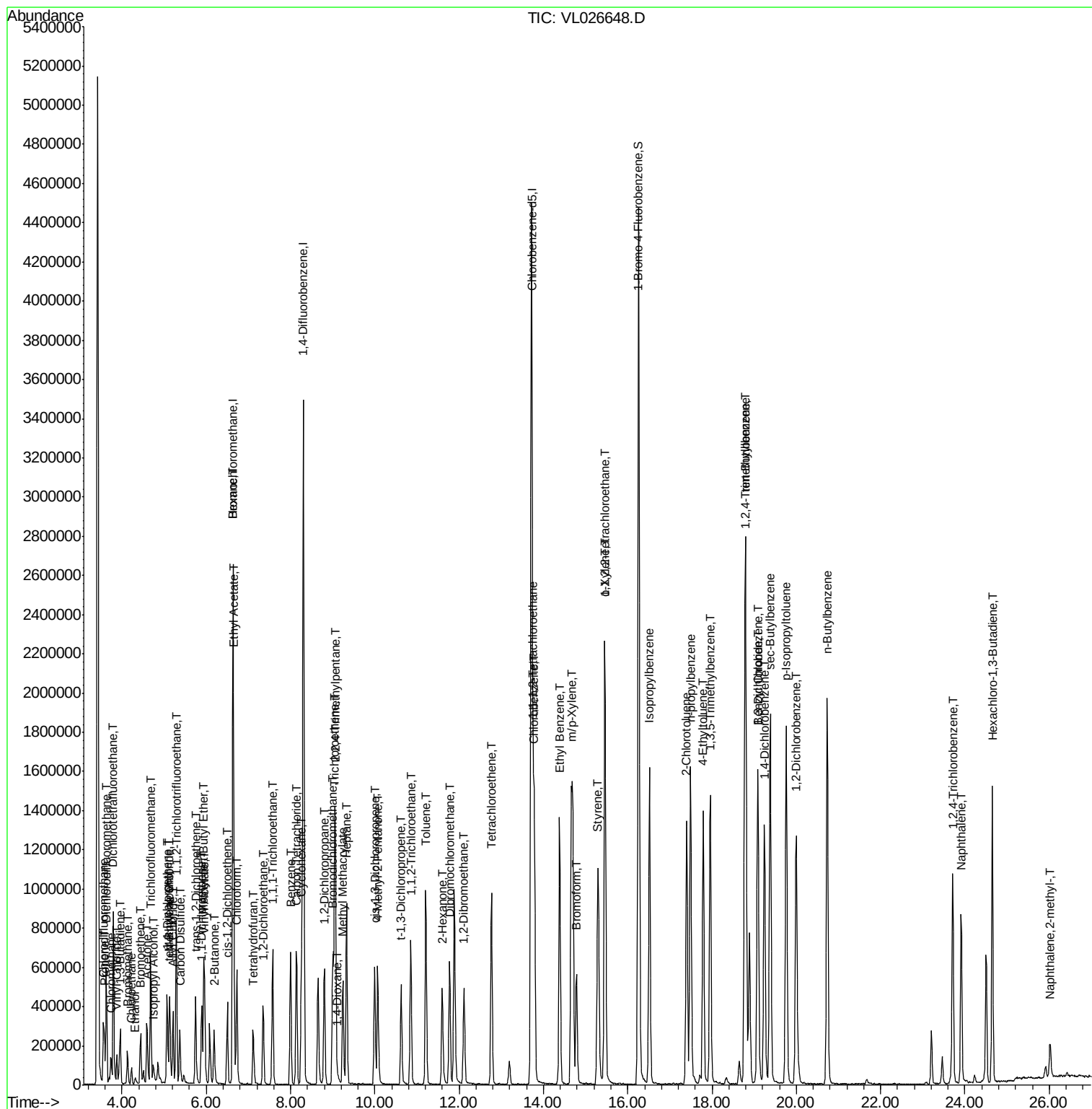
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
Data File : VL026648.D
Acq On : 8 Jan 2016 16:06
Operator : SY/AP
Sample : VSTDICC002
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

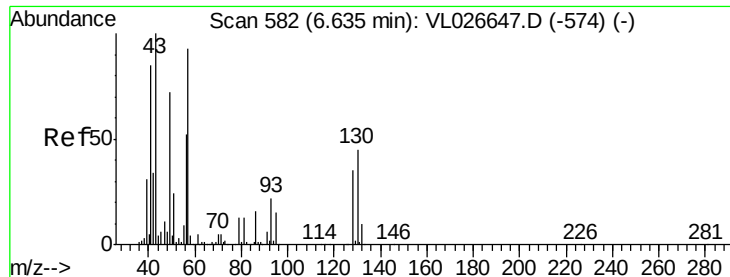
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

apatel
1/11/2016 4:59:37 PM

Quant Time: Jan 08 22:29:15 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jan
QLast Update : Fri Jan 08 22:06:23 2016
Response via : Initial Calibration





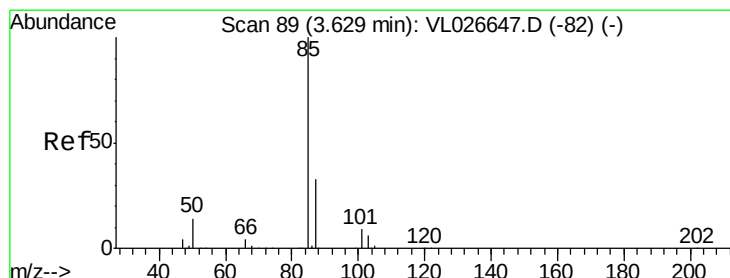
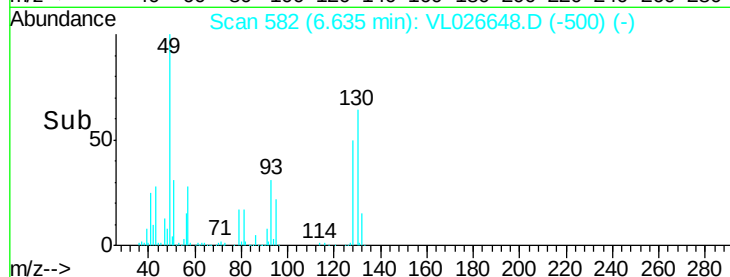
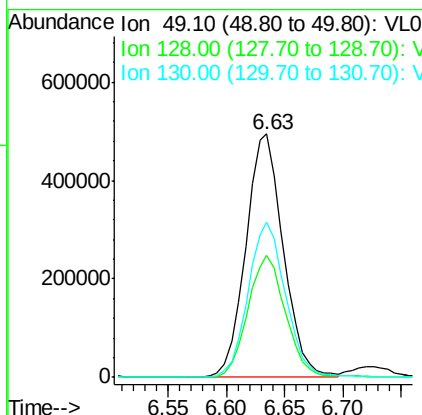
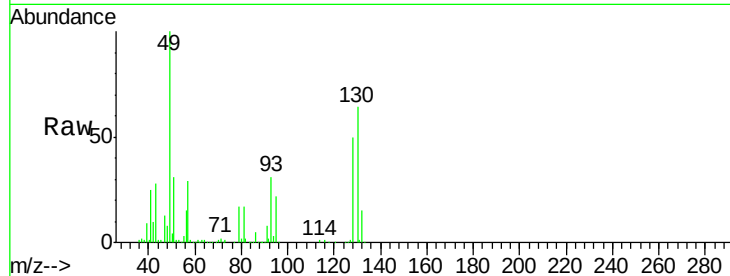
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.63 min Scan# 582
Delta R.T. 0.00 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 49 Resp: 1105099
Ion Ratio Lower Upper
49 100
128 51.0 25.9 77.7
130 65.1 33.6 100.8

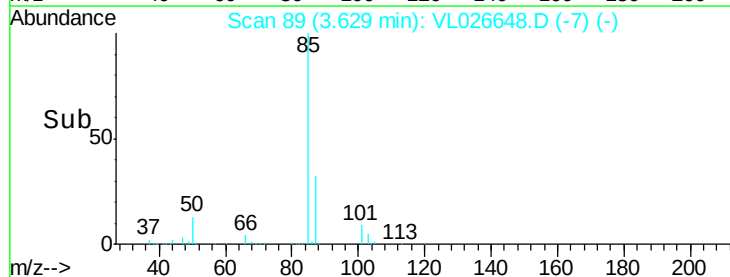
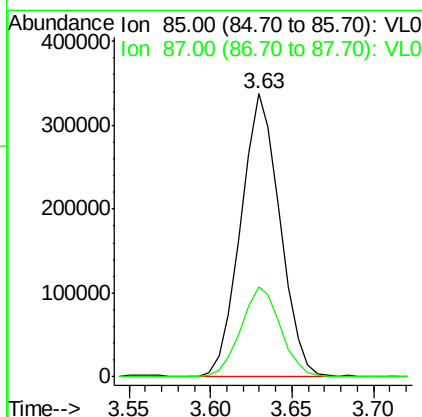
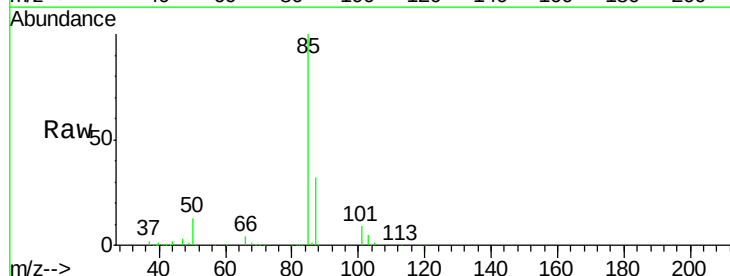
Manual Integrations
APPROVED

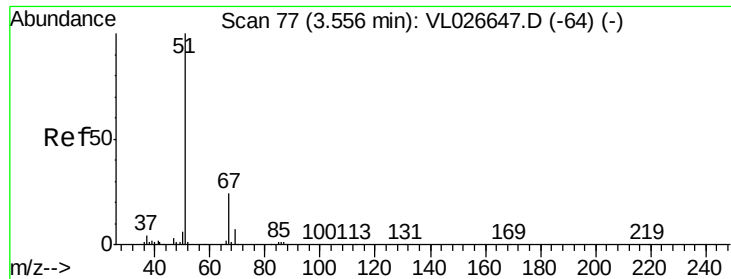
apatel
1/11/2016 4:59:37 PM



#2
Dichlorodifluoromethane
Concen: 1.92 ppbv
RT: 3.63 min Scan# 89
Delta R.T. 0.00 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion: 85 Resp: 562899
Ion Ratio Lower Upper
85 100
87 31.9 26.4 39.6





#3

Chlorodifluoromethane

Concen: 2.13 ppbv

RT: 3.56 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 296976

Ion Ratio Lower Upper

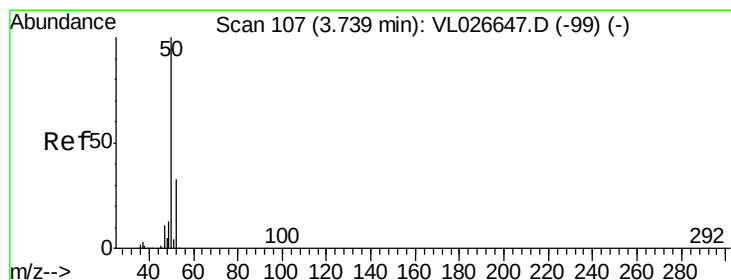
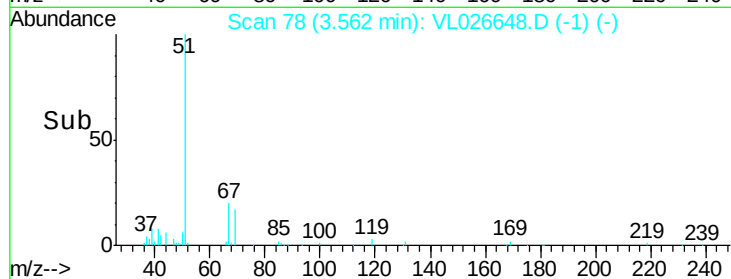
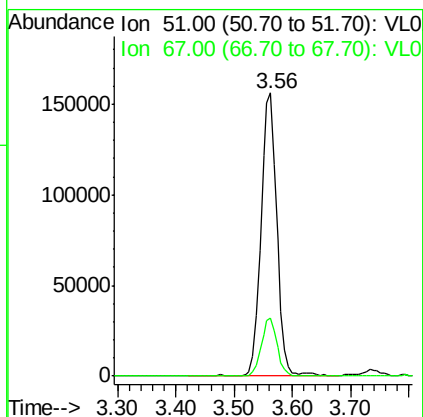
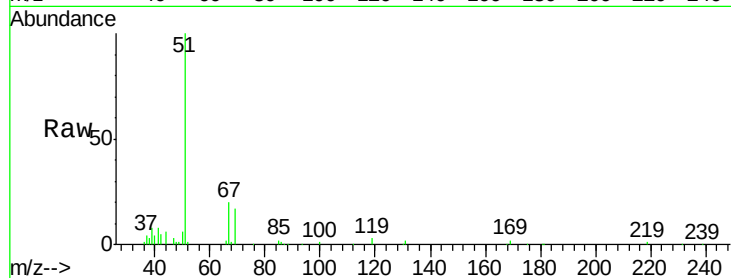
51 100

67 20.1 18.6 28.0

Manual Integrations
APPROVED

apatel

1/11/2016 4:59:37 PM



#4

Chloromethane

Concen: 2.10 ppbv

RT: 3.74 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL026648.D

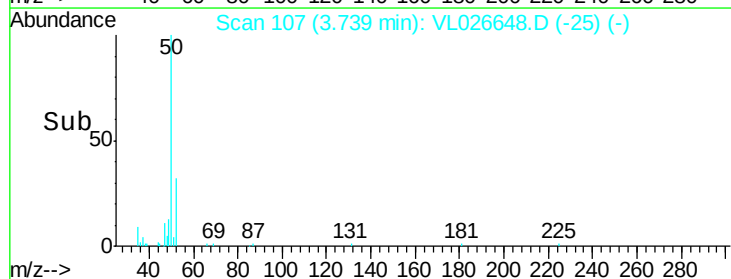
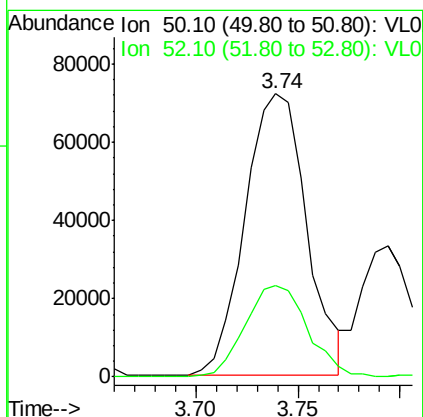
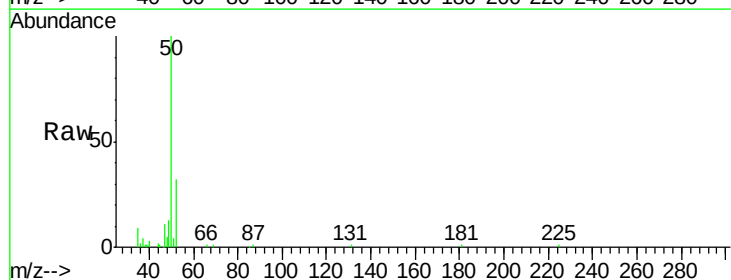
Acq: 8 Jan 2016 16:06

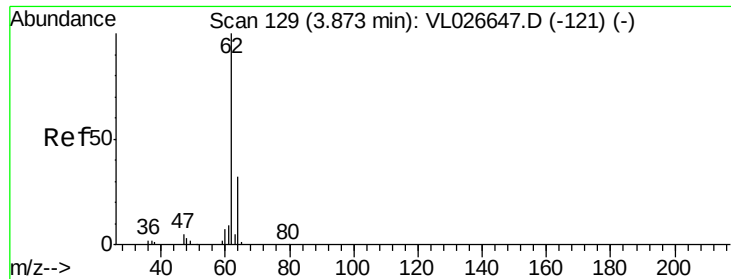
Tgt Ion: 50 Resp: 151598

Ion Ratio Lower Upper

50 100

52 32.4 26.7 40.1





#5

Vinyl Chloride

Concen: 2.01 ppbv

RT: 3.87 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 163362

Ion Ratio Lower Upper

62 100

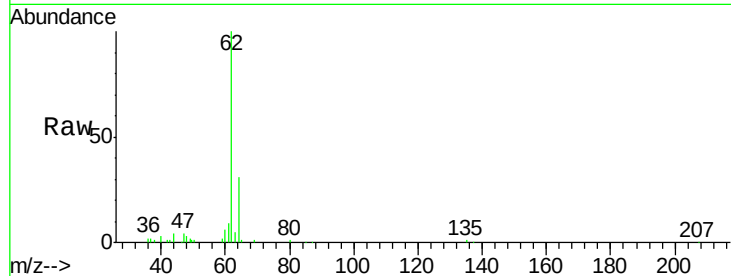
64 31.4 25.6 38.4

Manual Integrations

APPROVED

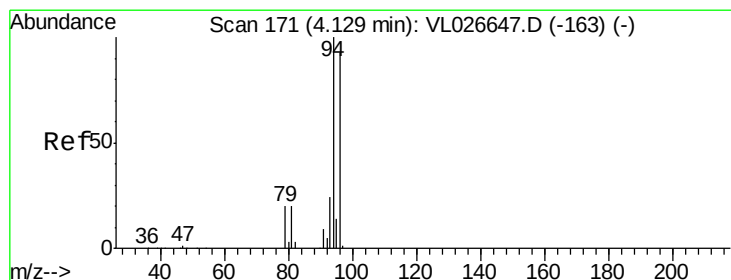
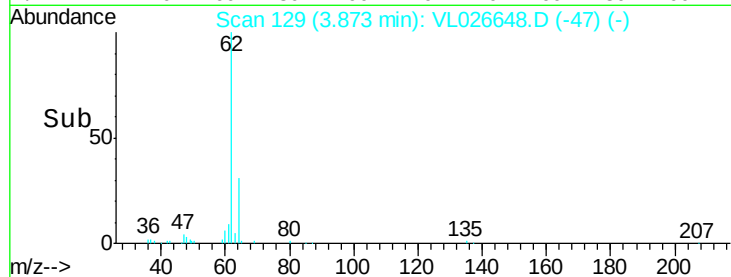
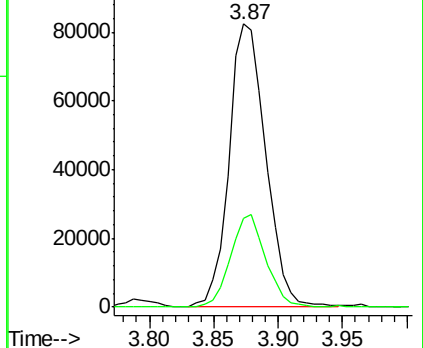
apatel

1/11/2016 4:59:37 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.95 ppbv

RT: 4.13 min Scan# 171

Delta R.T. 0.00 min

Lab File: VL026648.D

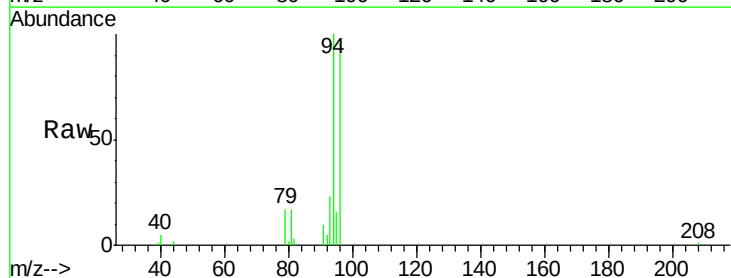
Acq: 8 Jan 2016 16:06

Tgt Ion: 94 Resp: 119086

Ion Ratio Lower Upper

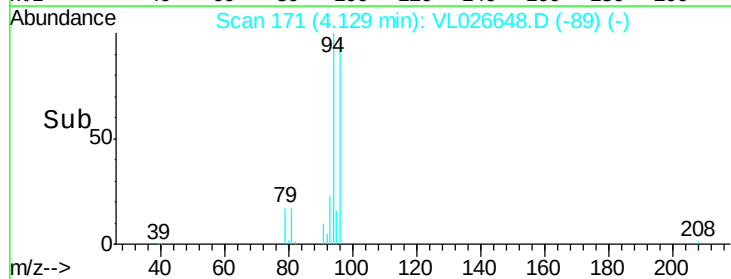
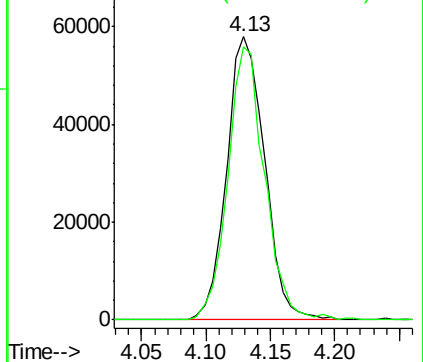
94 100

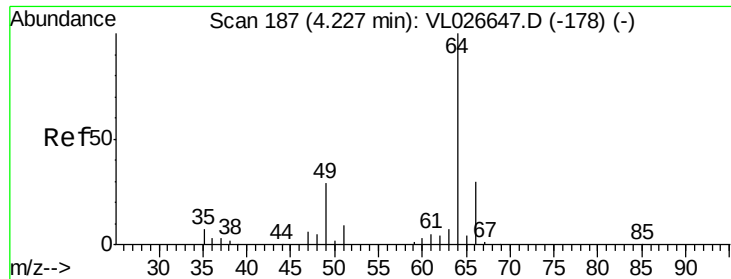
96 96.3 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.93 ppbv

RT: 4.23 min Scan# 187

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 70262

Ion Ratio Lower Upper

64 100

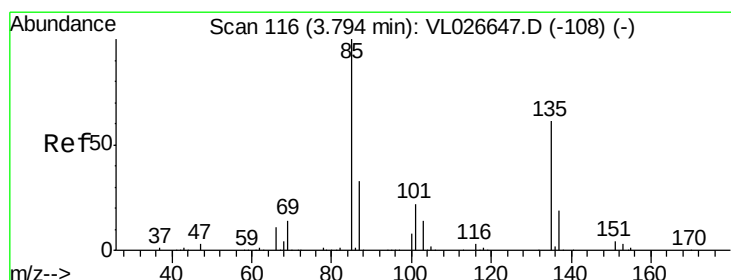
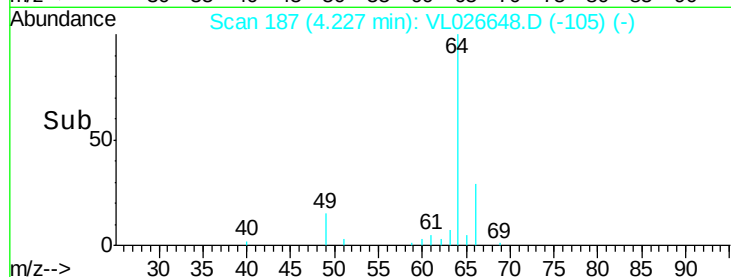
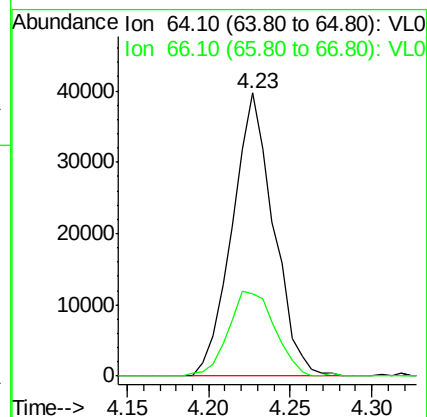
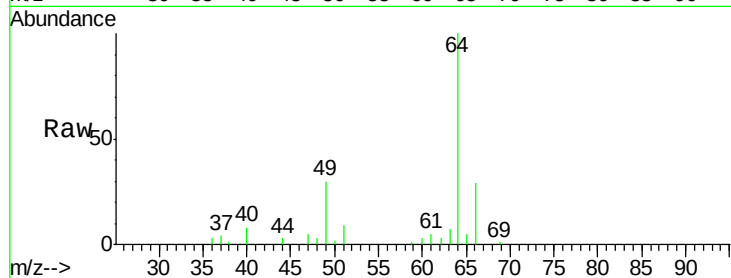
66 29.3 24.3 36.5

Manual Integrations

APPROVED

apatel

1/11/2016 4:59:37 PM



#8

Dichlorotetrafluoroethane

Concen: 1.99 ppbv

RT: 3.79 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL026648.D

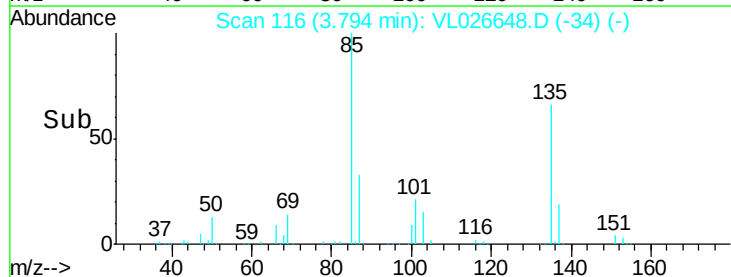
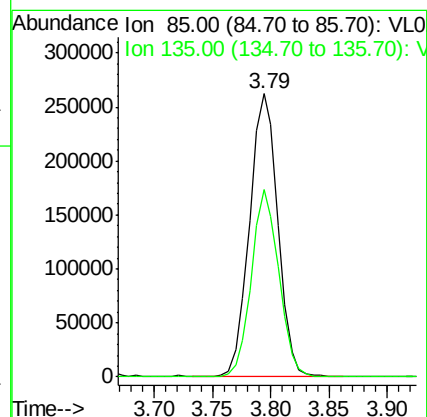
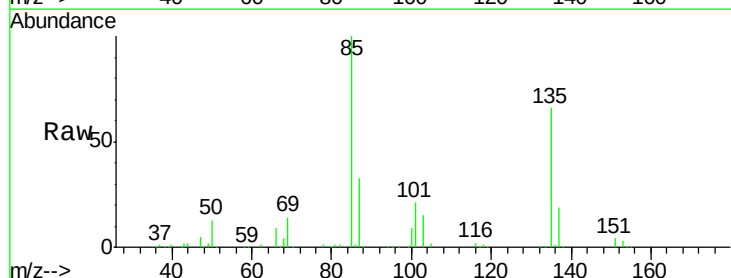
Acq: 8 Jan 2016 16:06

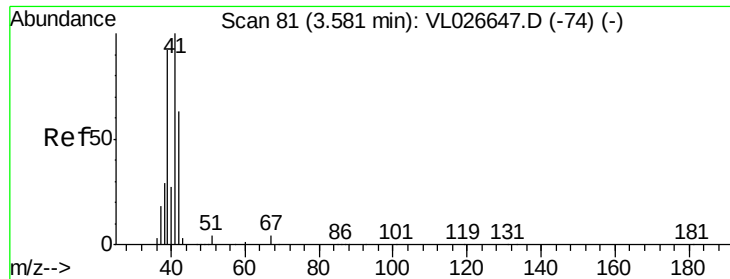
Tgt Ion: 85 Resp: 446058

Ion Ratio Lower Upper

85 100

135 64.3 49.8 74.6





#9

Propene

Concen: 2.23 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 119262

Ion Ratio Lower Upper

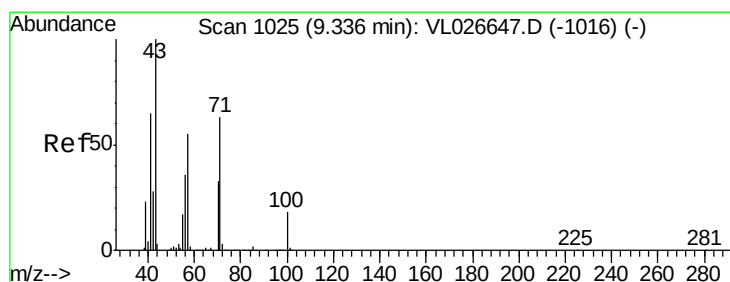
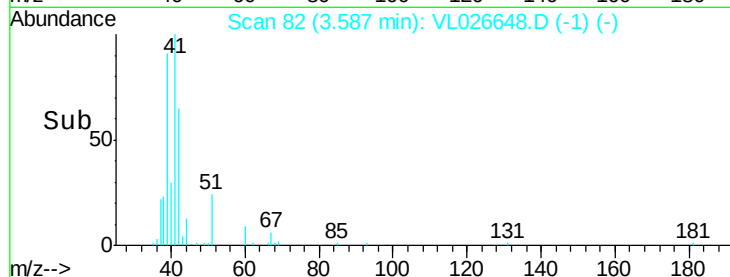
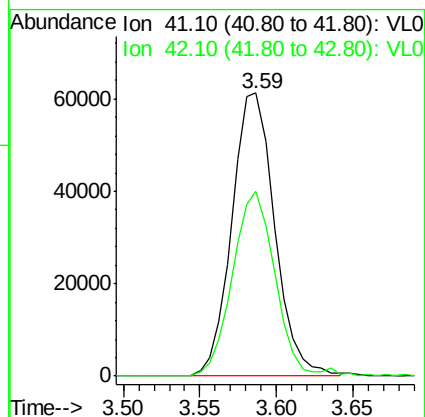
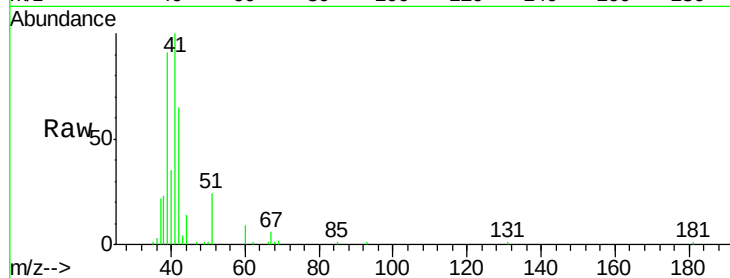
41 100

42 65.1 53.6 80.4

Manual Integrations
APPROVED

apatel

1/11/2016 4:59:37 PM



#10

Heptane

Concen: 2.18 ppbv

RT: 9.33 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL026648.D

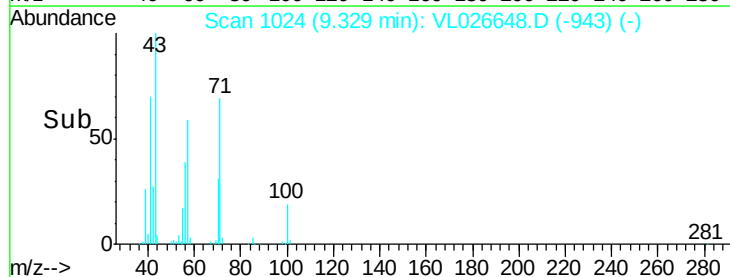
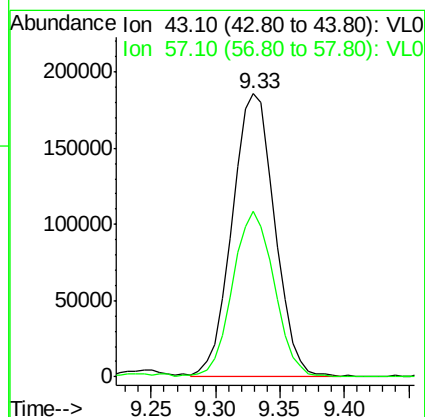
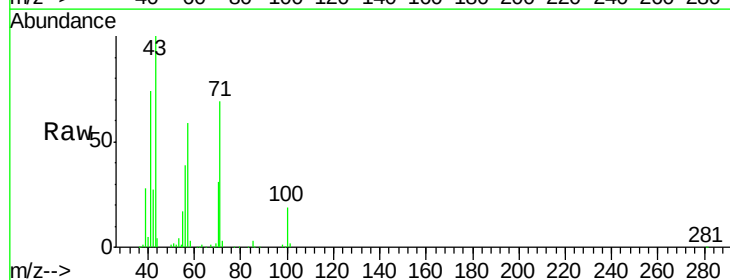
Acq: 8 Jan 2016 16:06

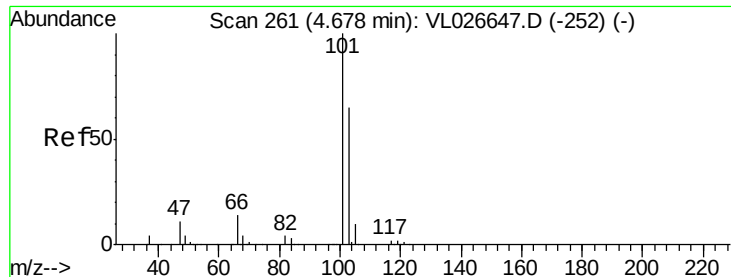
Tgt Ion: 43 Resp: 421860

Ion Ratio Lower Upper

43 100

57 58.8 45.8 68.6





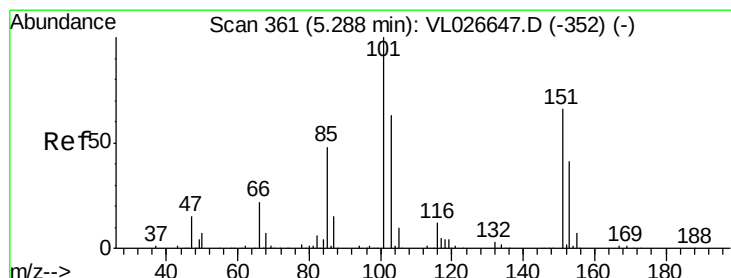
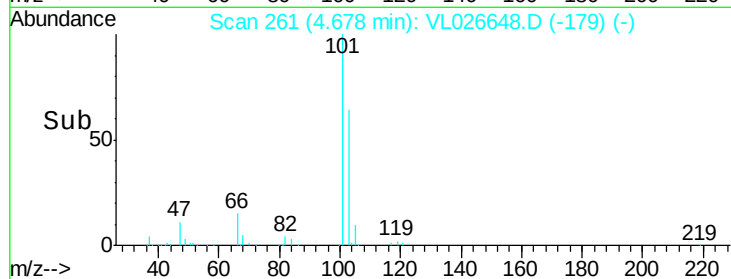
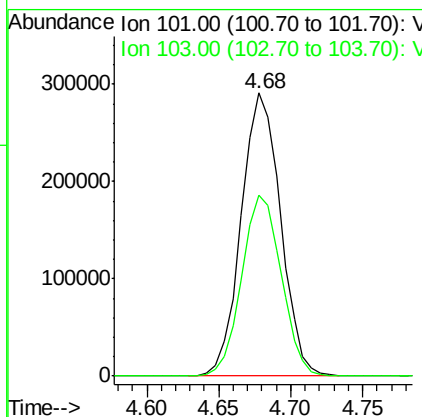
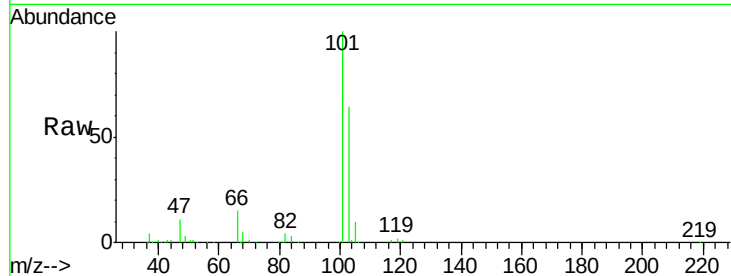
#11
 Trichlorofluoromethane
 Concen: 1.89 ppbv
 RT: 4.68 min Scan# 261
 Delta R.T. 0.00 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:101 Resp: 551307
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.7 77.5

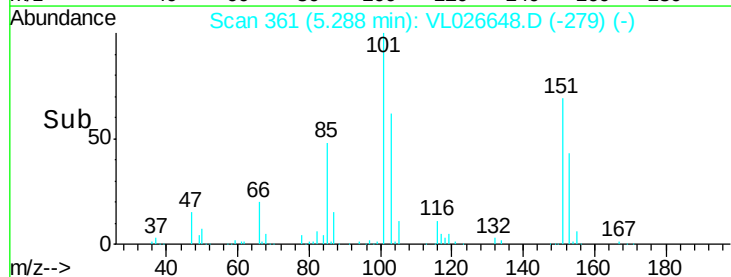
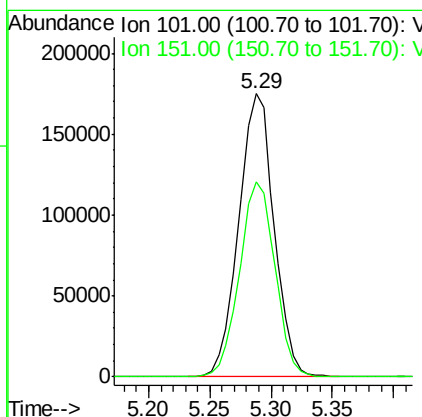
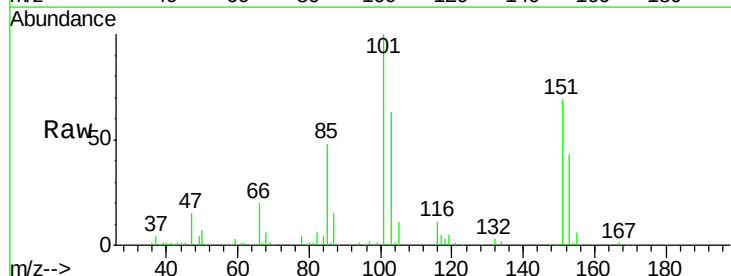
Manual Integrations
 APPROVED

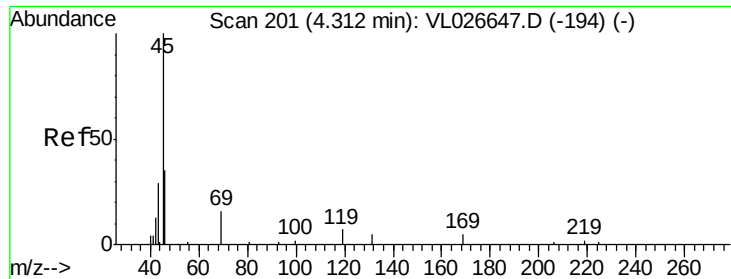
apatel
 1/11/2016 4:59:37 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.97 ppbv
 RT: 5.29 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion:101 Resp: 351534
 Ion Ratio Lower Upper
 101 100
 151 69.3 54.2 81.4





#13

Ethanol

Concen: 2.15 ppbv

RT: 4.32 min Scan# 202

Delta R.T. 0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 24277

Ion Ratio Lower Upper

45 100

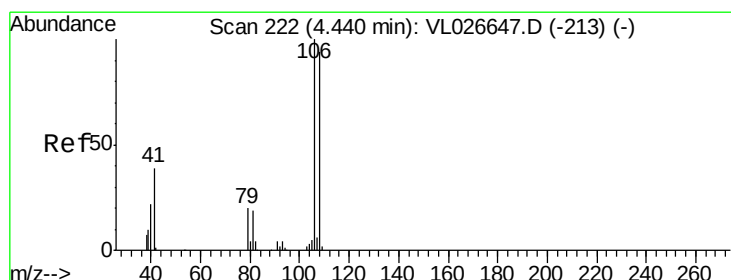
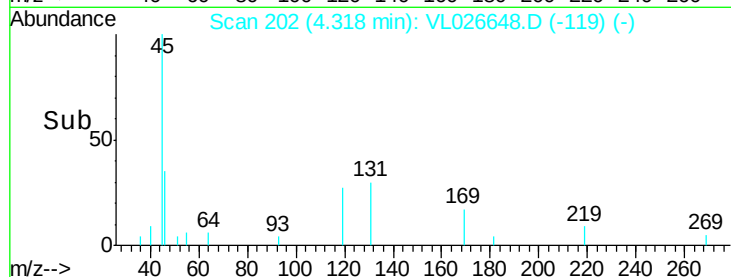
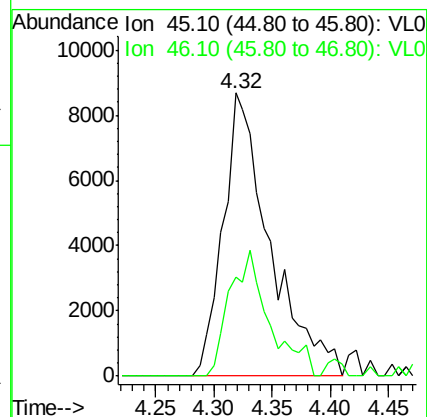
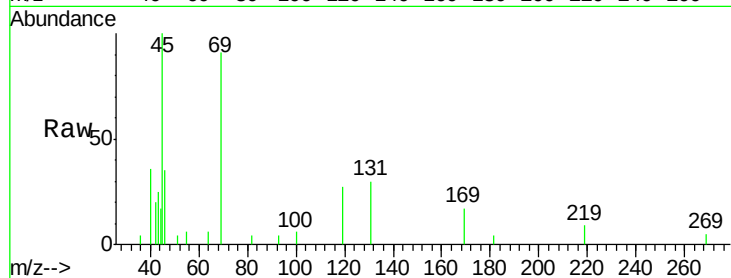
46 39.4 16.7 66.7

Manual Integrations

APPROVED

apatel

1/11/2016 4:59:37 PM



#14

Bromoethene

Concen: 1.91 ppbv

RT: 4.44 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

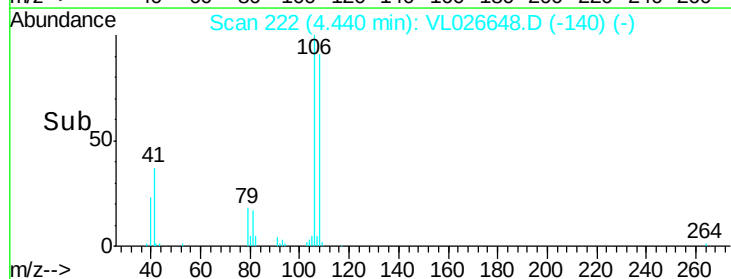
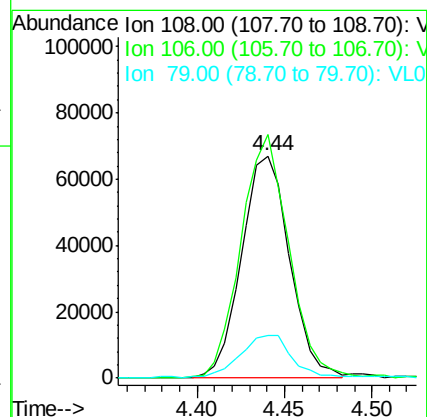
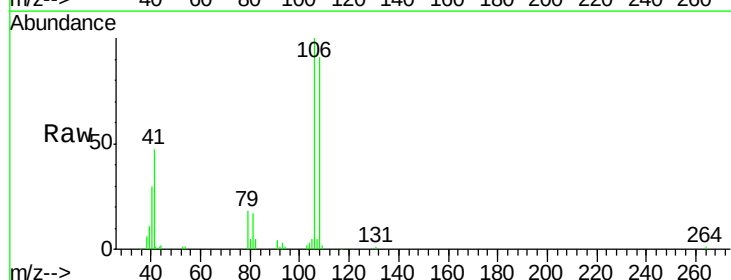
Tgt Ion: 108 Resp: 129051

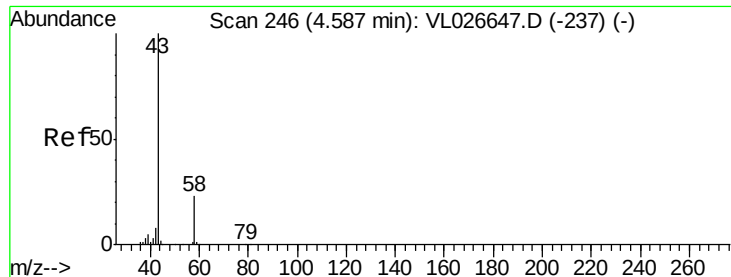
Ion Ratio Lower Upper

108 100

106 110.2 86.3 129.5

79 22.3 17.3 25.9





#15

Acetone

Concen: 2.34 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 378395

Ion Ratio Lower Upper

43 100

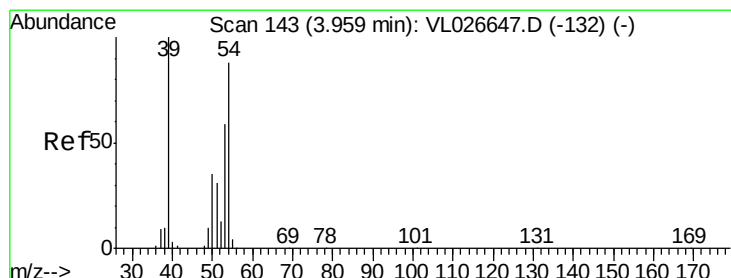
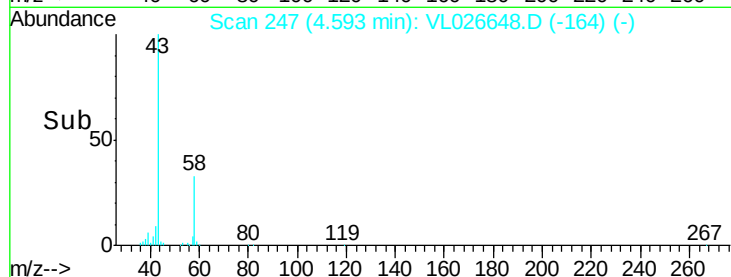
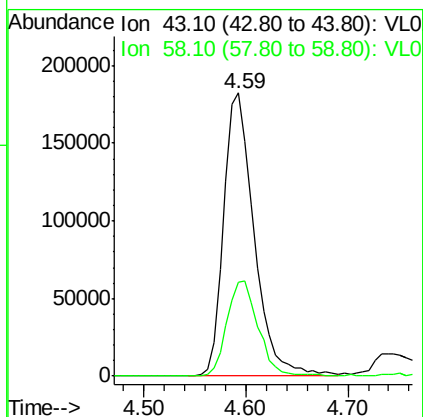
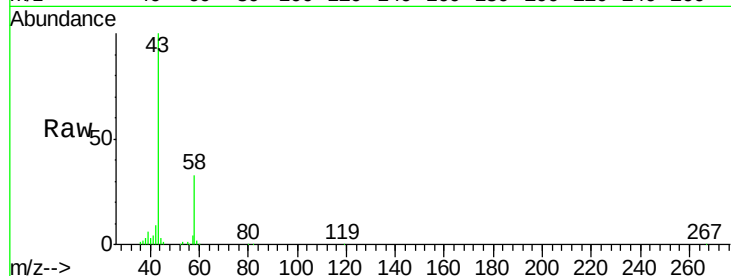
58 34.6 19.2 28.8#

Manual Integrations

APPROVED

apatel

1/11/2016 4:59:37 PM



#16

1,3-Butadiene

Concen: 2.06 ppbv

RT: 3.96 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL026648.D

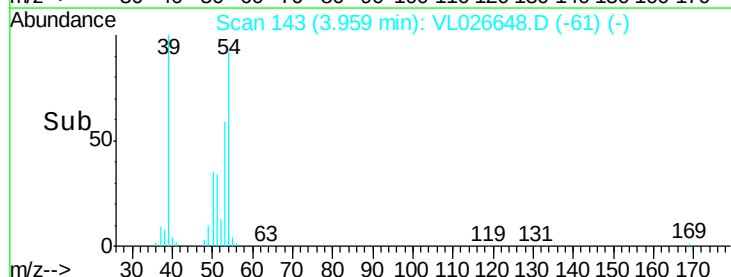
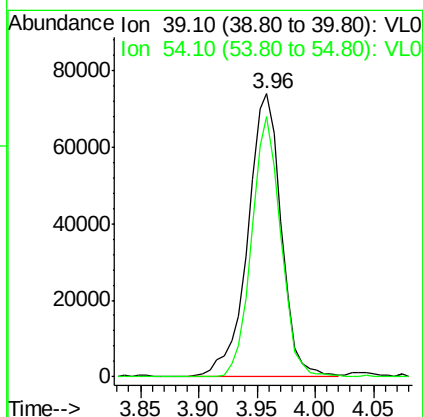
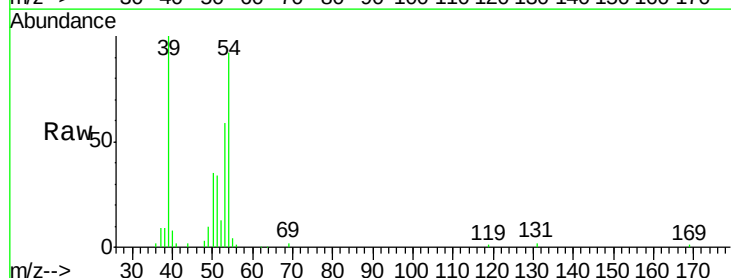
Acq: 8 Jan 2016 16:06

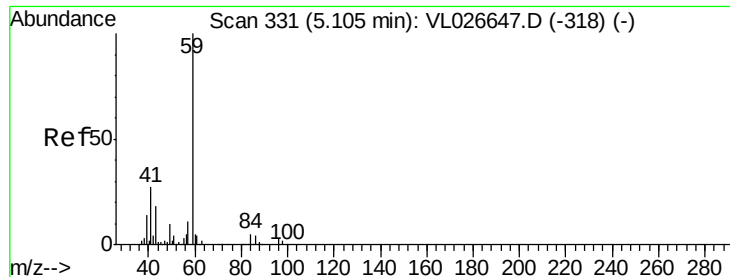
Tgt Ion: 39 Resp: 148917

Ion Ratio Lower Upper

39 100

54 80.1 66.4 99.6





#17

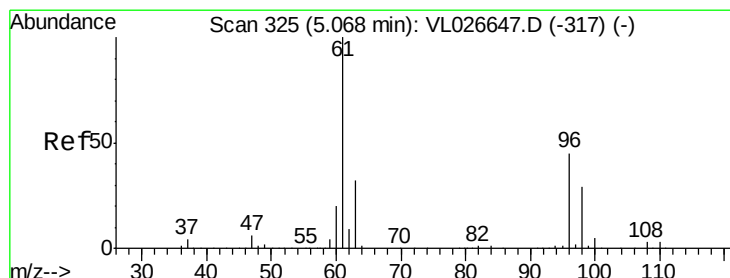
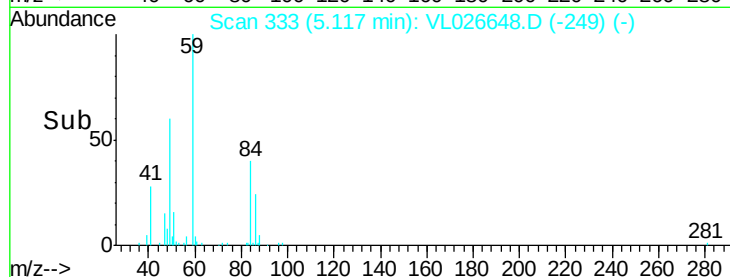
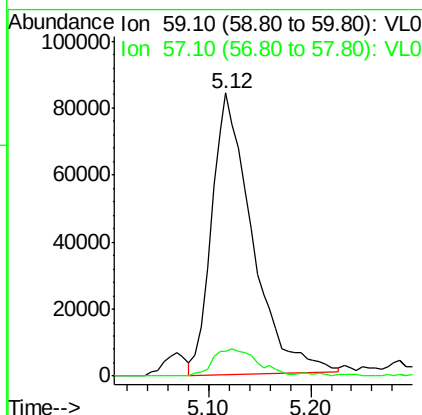
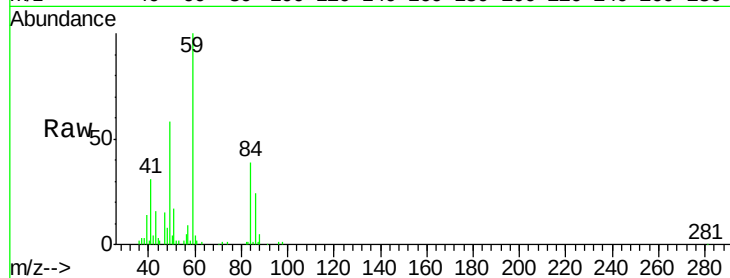
tert-Butyl alcohol
Concen: 1.54 ppbv
RT: 5.12 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	59	57	Ratio	100	11.7	Resp	231673	Lower	8.9	Upper	13.3
Ion	59	57	Ratio	100	11.7	Resp	231673	Lower	8.9	Upper	13.3

Manual Integrations
APPROVED

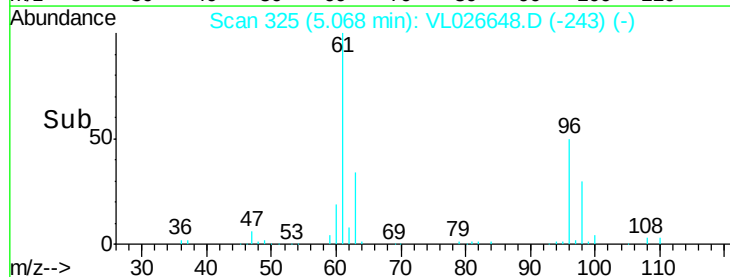
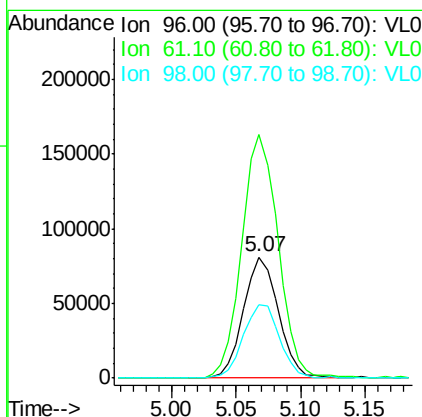
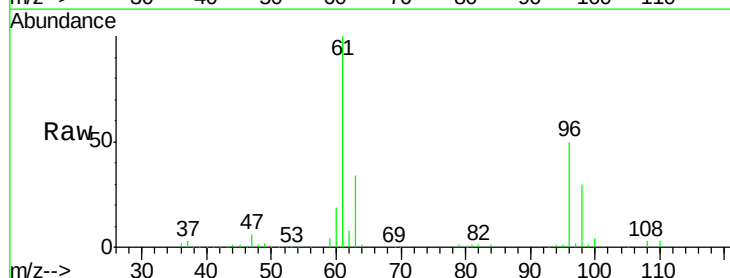
apatel
1/11/2016 4:59:37 PM

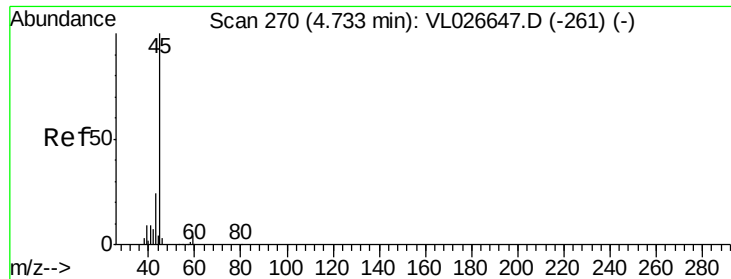


#18

1,1-Dichloroethene
Concen: 1.98 ppbv
RT: 5.07 min Scan# 325
Delta R.T. 0.00 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion	96	61	98	Ratio	100	201.7	60.5	Resp	152796	Lower	176.7	51.8	Upper	265.1	77.6
Ion	96 <td>61 <td>98 <td>Ratio</td> <td>100</td> <td>201.7</td> <td>60.5</td> <td>Resp</td> <td>152796</td> <td>Lower</td> <td>176.7</td> <td>51.8</td> <td>Upper</td> <td>265.1</td> <td>77.6</td> </td></td>	61 <td>98 <td>Ratio</td> <td>100</td> <td>201.7</td> <td>60.5</td> <td>Resp</td> <td>152796</td> <td>Lower</td> <td>176.7</td> <td>51.8</td> <td>Upper</td> <td>265.1</td> <td>77.6</td> </td>	98 <td>Ratio</td> <td>100</td> <td>201.7</td> <td>60.5</td> <td>Resp</td> <td>152796</td> <td>Lower</td> <td>176.7</td> <td>51.8</td> <td>Upper</td> <td>265.1</td> <td>77.6</td>	Ratio	100	201.7	60.5	Resp	152796	Lower	176.7	51.8	Upper	265.1	77.6





#19

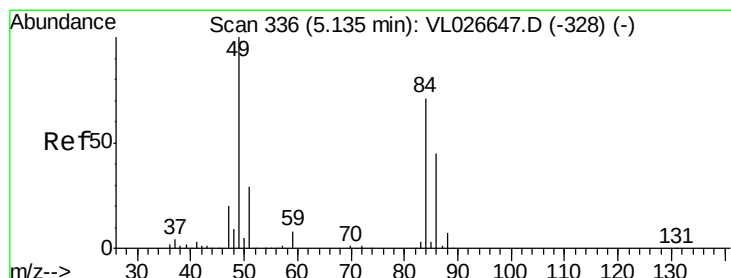
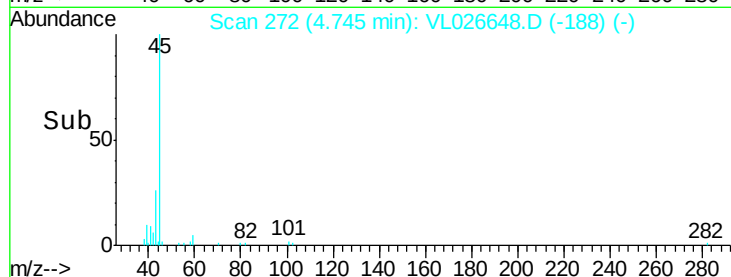
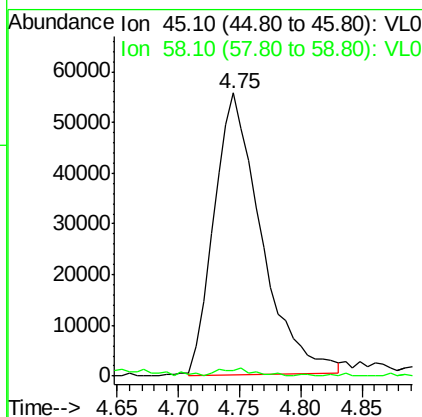
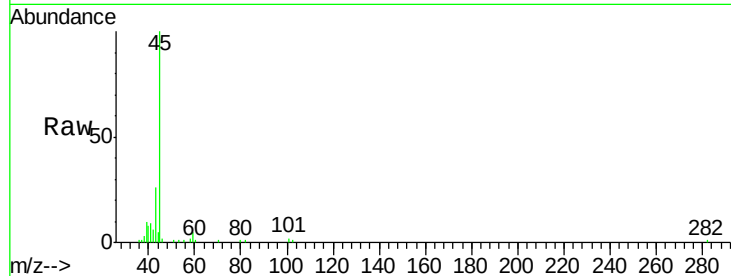
Isopropyl Alcohol
 Concen: 1.68 ppbv
 RT: 4.75 min Scan# 272
 Delta R.T. 0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
58	88.1	1.2	1.8#

Manual Integrations
 APPROVED

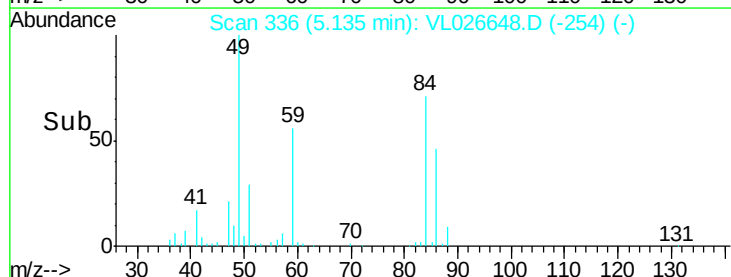
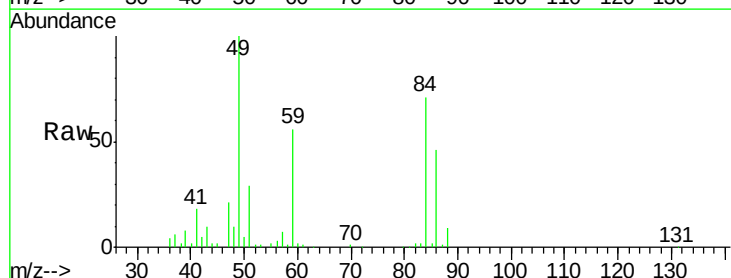
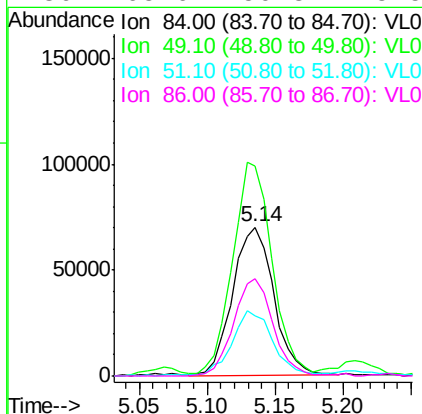
apatel
 1/11/2016 4:59:37 PM

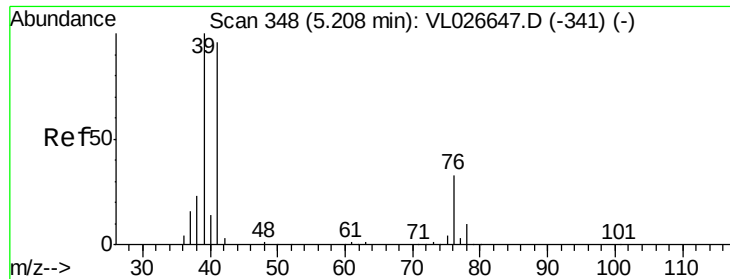


#20

Methylene Chloride
 Concen: 2.10 ppbv
 RT: 5.14 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.0	112.3	168.5
51	40.4	32.5	48.7
86	65.6	50.3	75.5





#21

Allvl Chloride

Concen: 2.03 ppbv

RT: 5.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

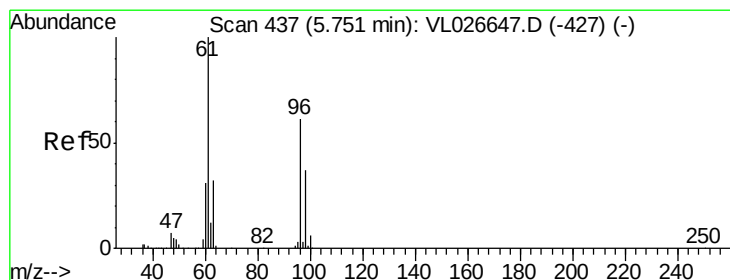
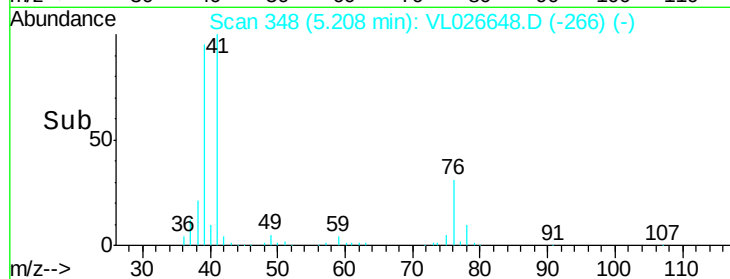
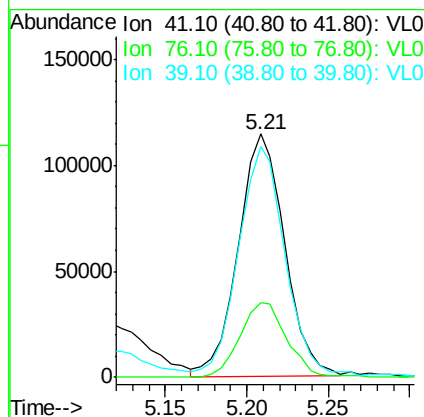
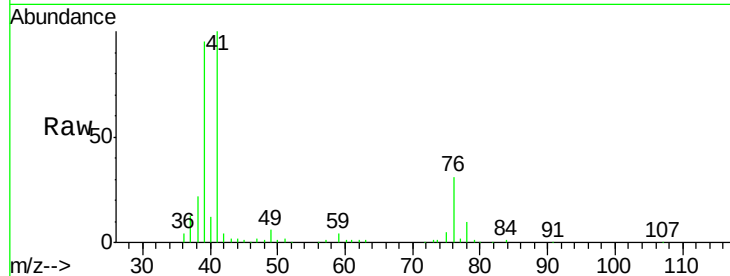
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	226068
Ion	Ratio	Lower	Upper
41	100		
76	31.2	27.5	41.3
39	95.6	83.2	124.8

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#22

trans-1,2-Dichloroethene

Concen: 1.96 ppbv

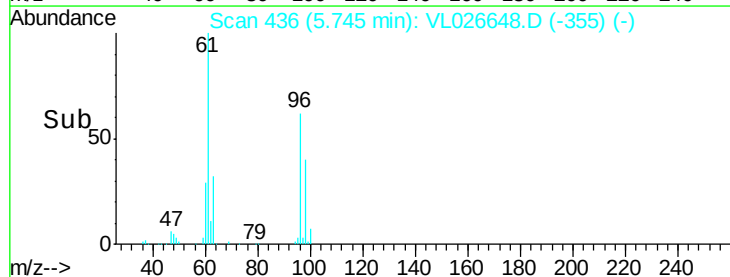
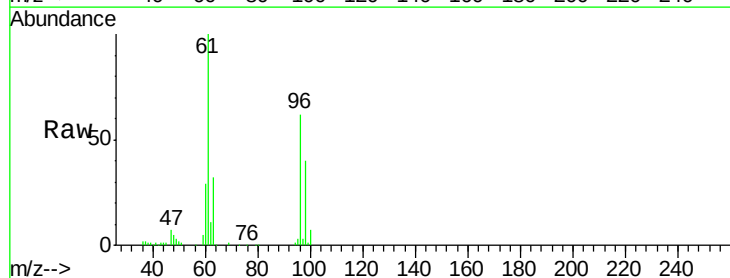
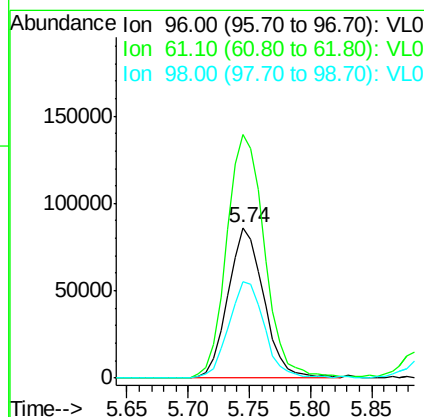
RT: 5.74 min Scan# 436

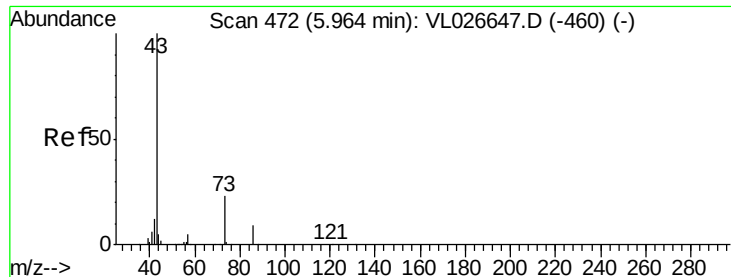
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	96	Resp:	174009
Ion	Ratio	Lower	Upper
96	100		
61	161.2	131.0	196.6
98	64.4	48.1	72.1





#23

Vinyl Acetate

Concen: 2.04 ppbv

RT: 5.96 min Scan# 472

Delta R.T. 0.00 min

Lab File: VL026648.D

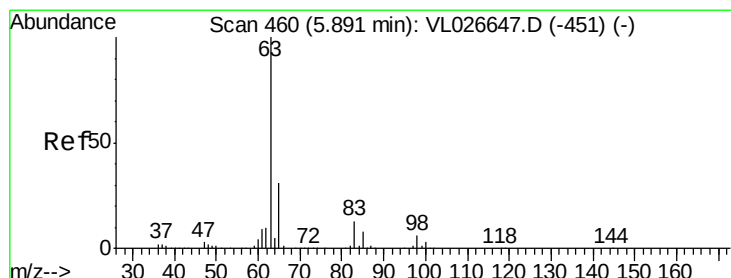
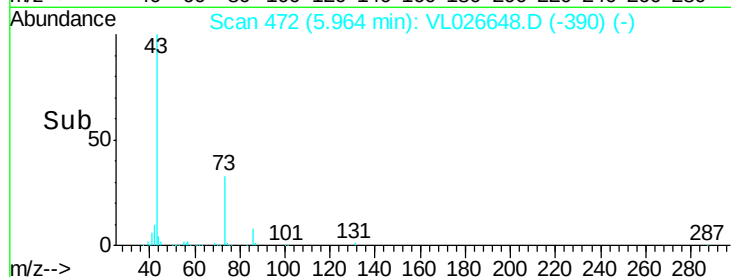
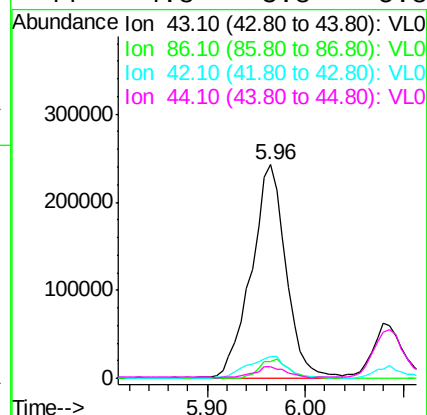
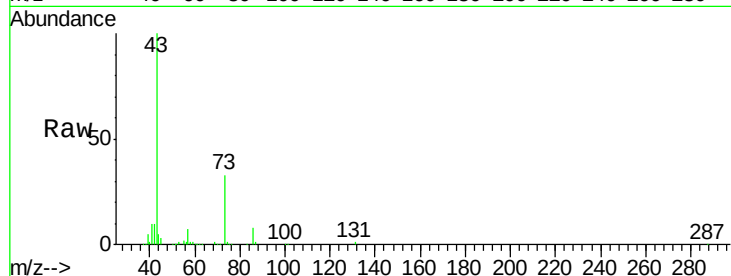
Acq: 8 Jan 2016 16:06

Tot Ion	43	Resp	596204
Ion Ratio	Lower	Upper	
43	100		
86	8.1	7.4	11.0
42	10.2	9.2	13.8
44	4.8	3.8	5.8

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#24

1,1-Dichloroethane

Concen: 2.02 ppbv

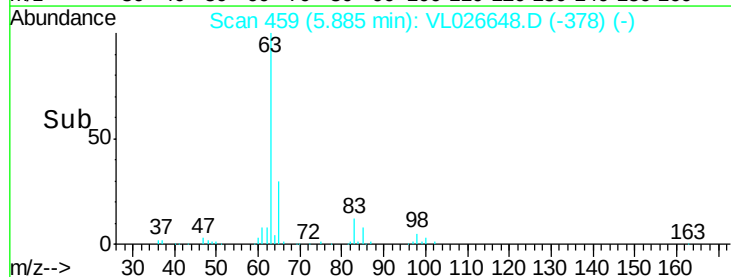
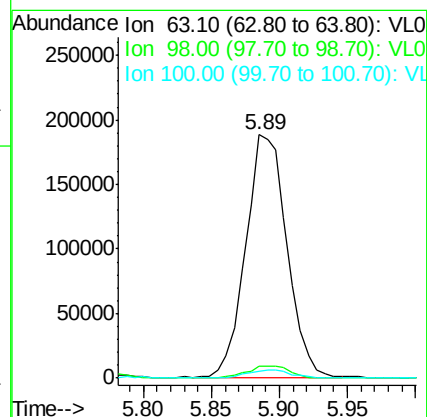
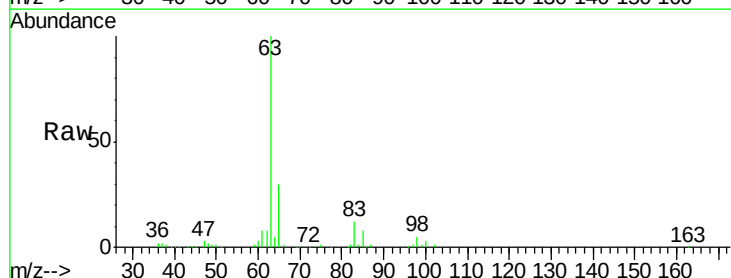
RT: 5.89 min Scan# 459

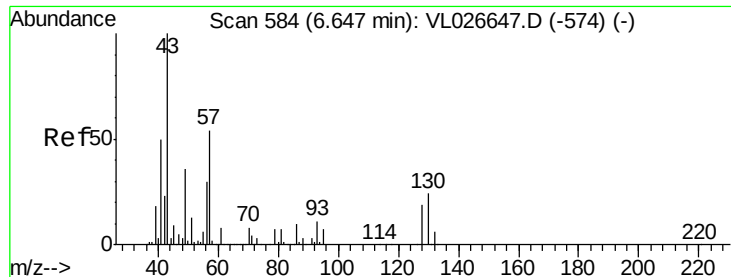
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion	63	Resp	396476
Ion Ratio	Lower	Upper	
63	100		
98	5.0	2.9	8.7
100	2.7	1.6	4.8





#25

Ethyl Acetate

Concen: 2.10 ppbv

RT: 6.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

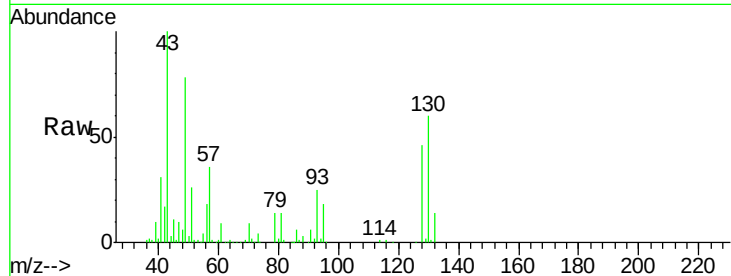
ClientSampleId :

VSTDIC002

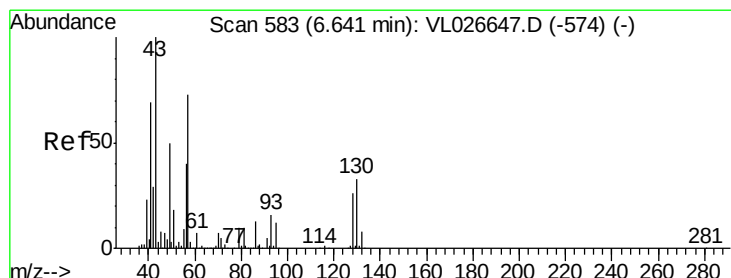
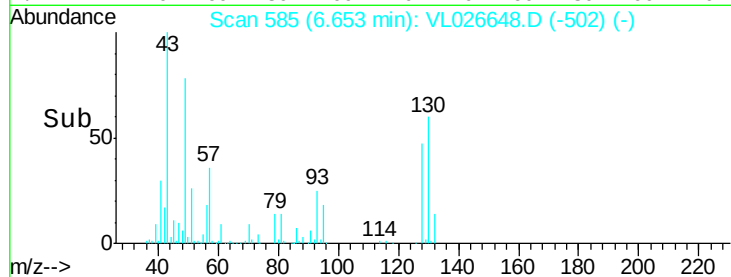
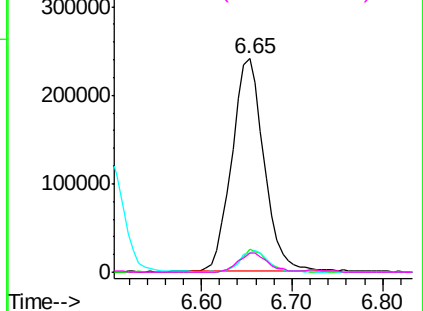
Tot Ion	43	Resp	593655
Ion Ratio	Lower	Upper	
43	100		
45	9.4	7.5	11.3
61	8.8	7.3	10.9
70	9.2	7.4	11.0

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



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: 2.16 ppbv

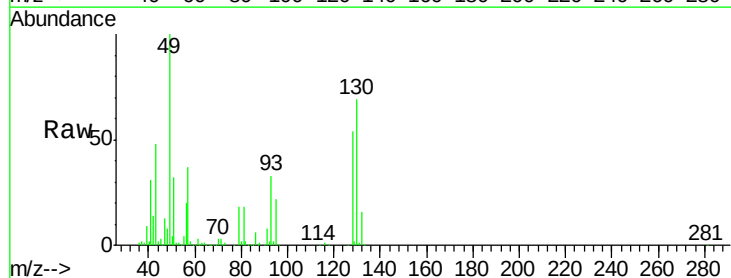
RT: 6.64 min Scan# 583

Delta R.T. 0.00 min

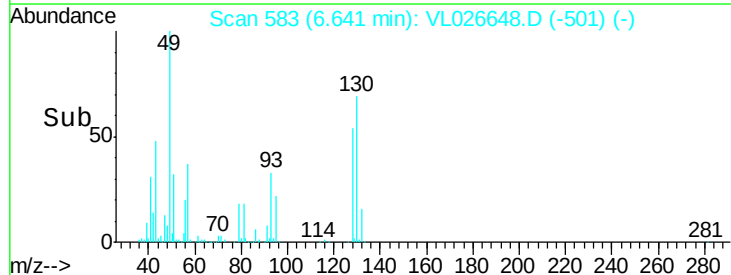
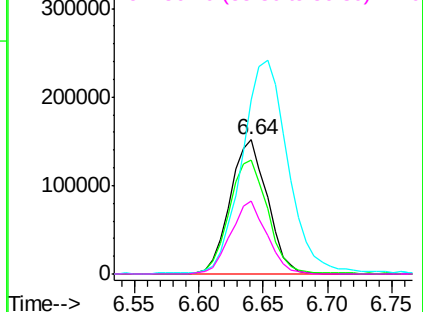
Lab File: VL026648.D

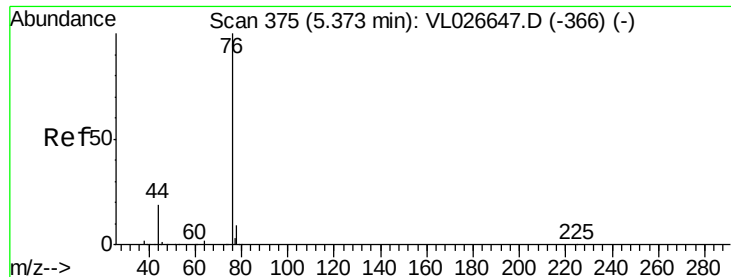
Acq: 8 Jan 2016 16:06

Tgt Ion	57	Resp	306190
Ion Ratio	Lower	Upper	
57	100		
41	89.1	74.8	112.2
43	200.6	161.5	242.3
56	52.8	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: 1.88 ppbv

RT: 5.37 min Scan# 375

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

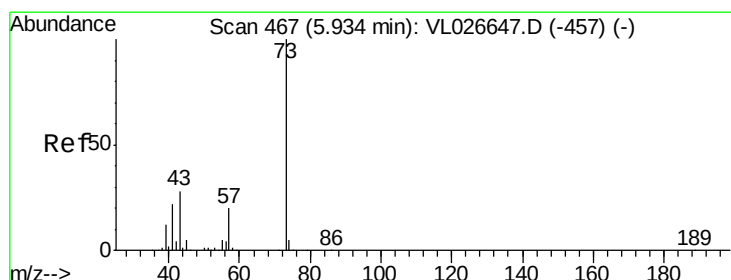
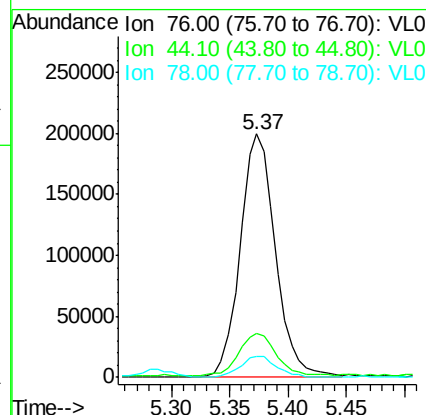
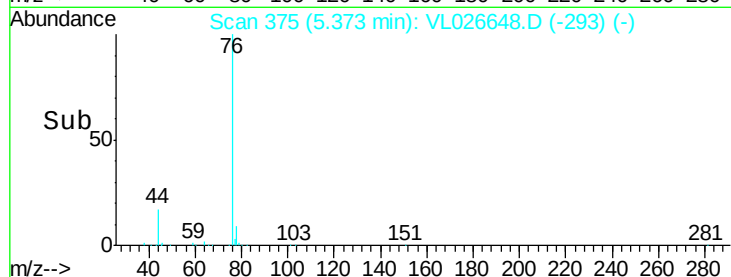
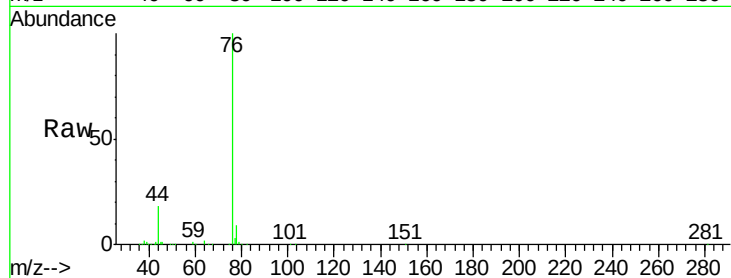
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	422438
Ion Ratio	Lower	Upper	
76	100		
44	18.3	16.1	24.1
78	9.3	7.4	11.0

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#28

Methyl tert-Butyl Ether

Concen: 1.95 ppbv

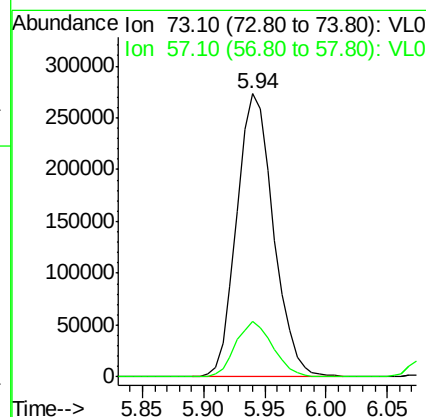
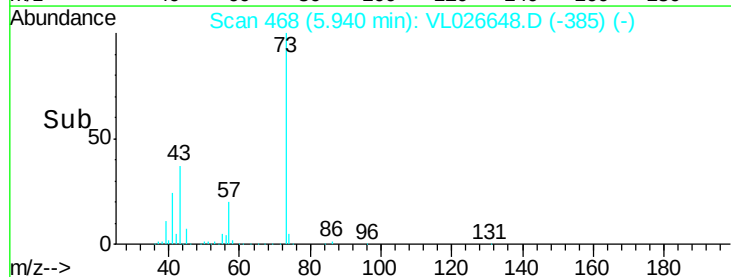
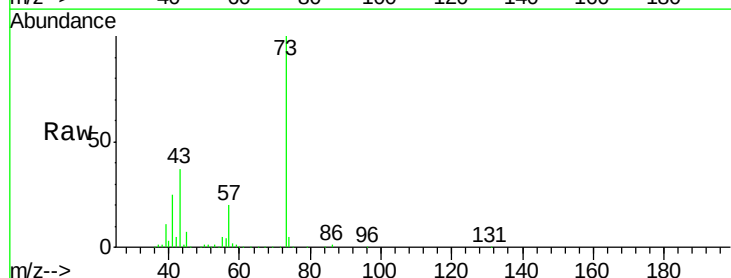
RT: 5.94 min Scan# 468

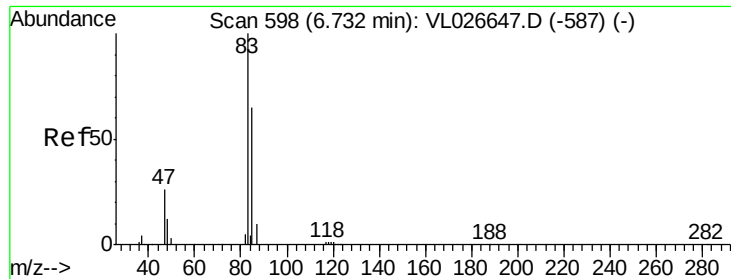
Delta R.T. 0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	73	Resp:	569854
Ion Ratio	Lower	Upper	
73	100		
57	19.8	16.2	24.4





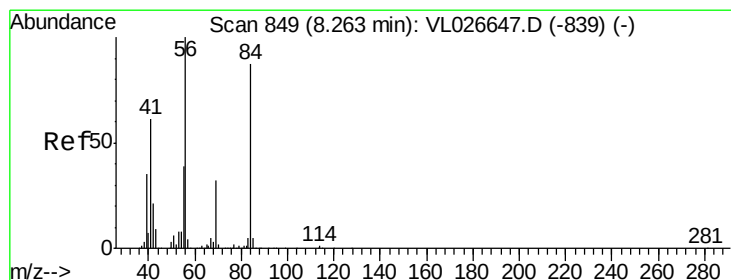
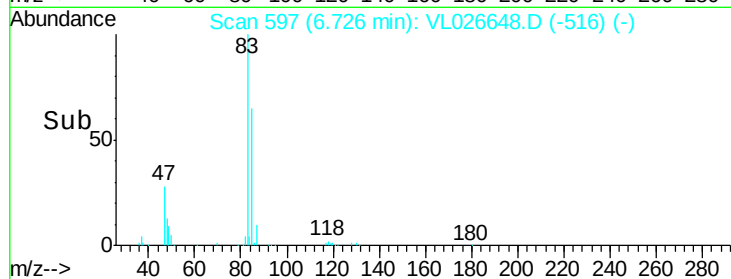
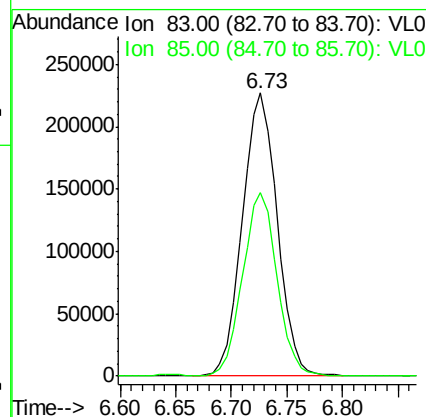
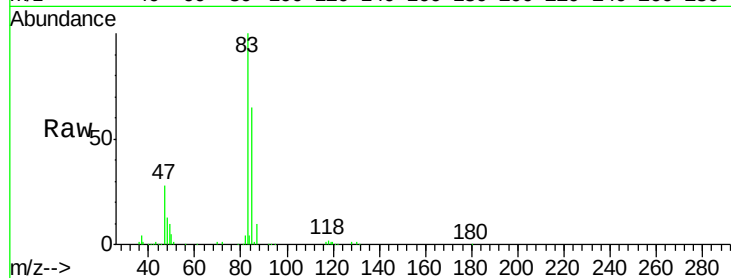
#29
Chloroform
Concen: 1.96 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	494512
Ion Ratio	100	Lower	Upper
83	100		
85	64.5	51.6	77.4

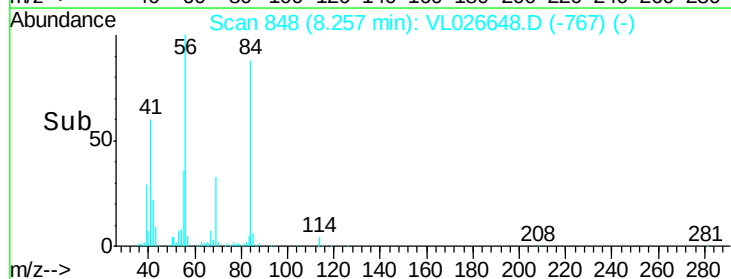
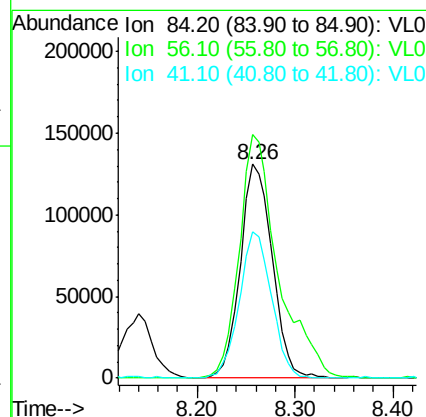
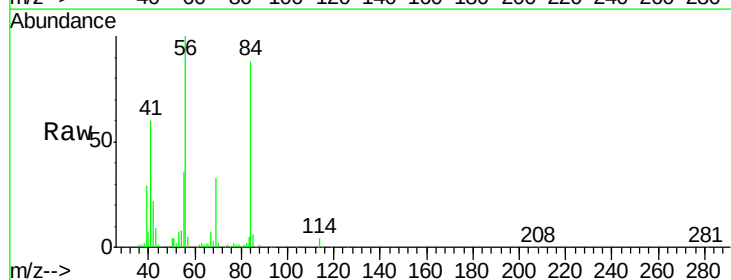
Manual Integrations
APPROVED

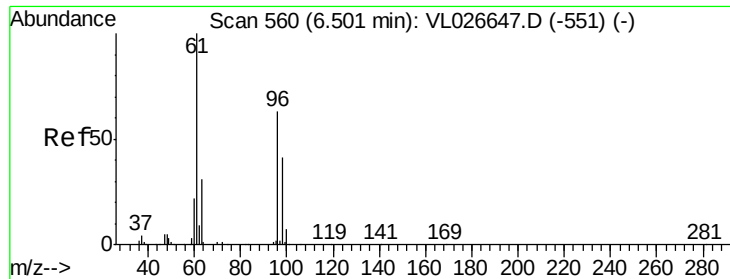
apatel
1/11/2016 4:59:37 PM



#30
Cyclohexane
Concen: 2.07 ppbv
RT: 8.26 min Scan# 848
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion	84	Resp	298532
Ion Ratio	100	Lower	Upper
84	100		
56	138.0	95.9	143.9
41	68.8	54.8	82.2





#31

cis-1,2-Dichloroethene

Concen: 1.97 ppbv

RT: 6.49 min Scan# 559

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

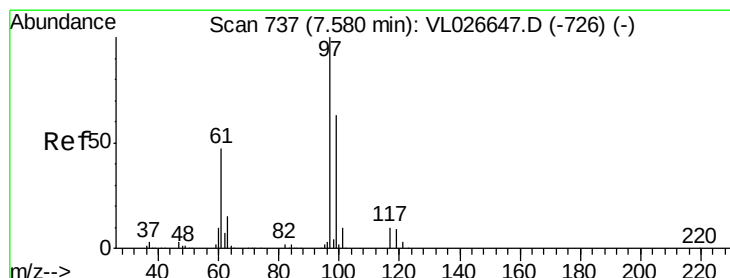
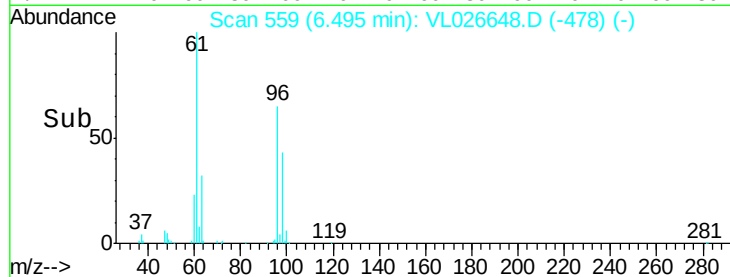
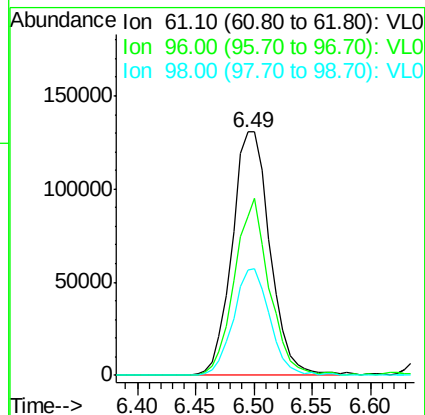
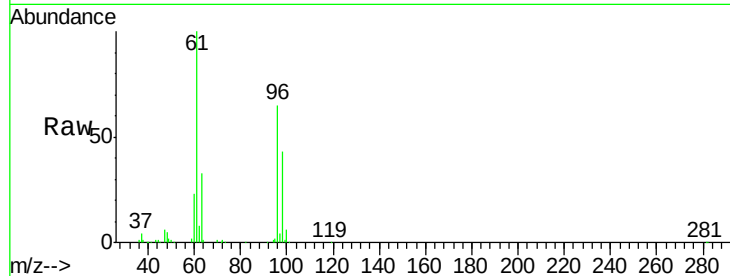
ClientSampleId :

VSTDIC002

Tot Ion:	61	Resp:	296238
Ion	Ratio	Lower	Upper
61	100		
96	65.2	50.2	75.4
98	43.1	32.4	48.6

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#32

1,1,1-Trichloroethane

Concen: 1.88 ppbv

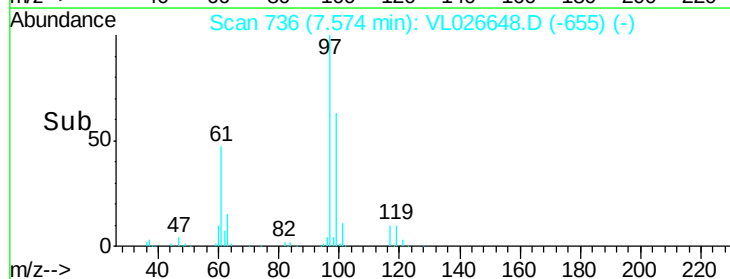
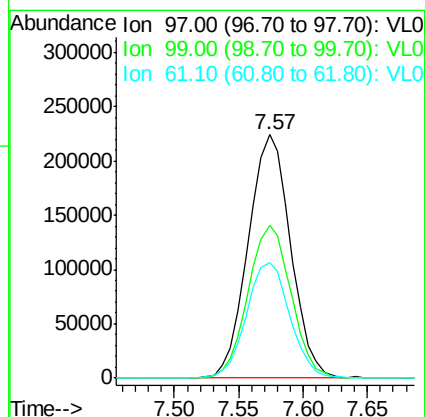
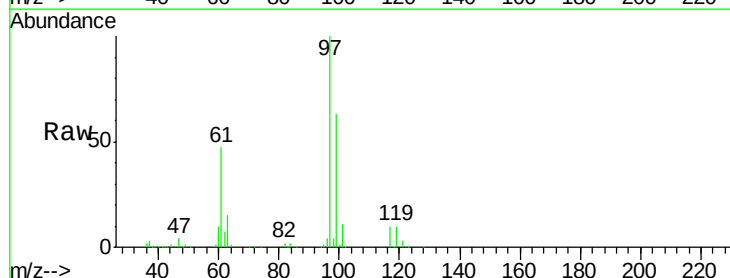
RT: 7.57 min Scan# 736

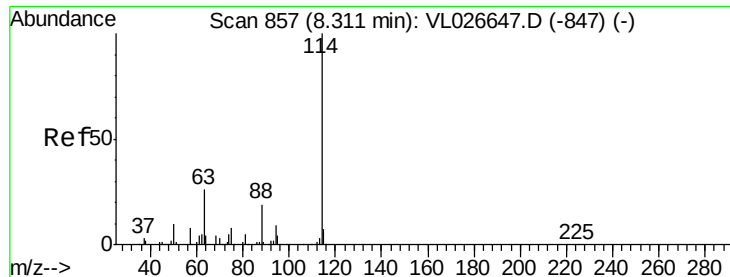
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	97	Resp:	511569
Ion	Ratio	Lower	Upper
97	100		
99	63.6	50.8	76.2
61	48.5	38.6	58.0





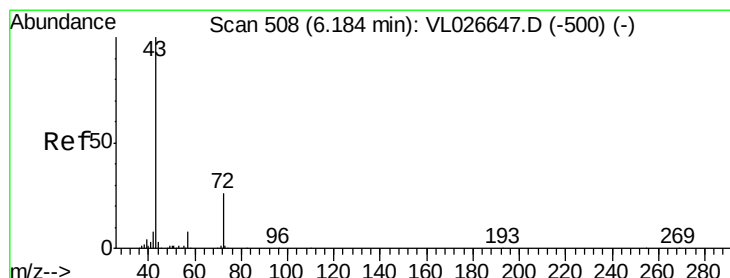
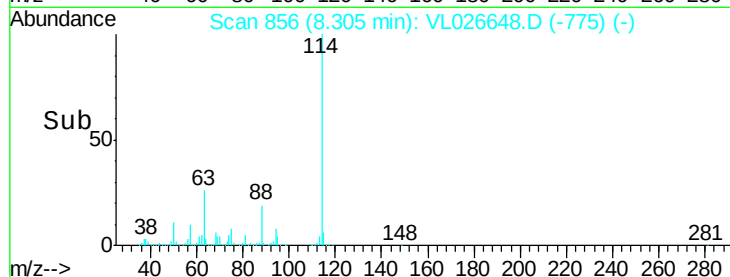
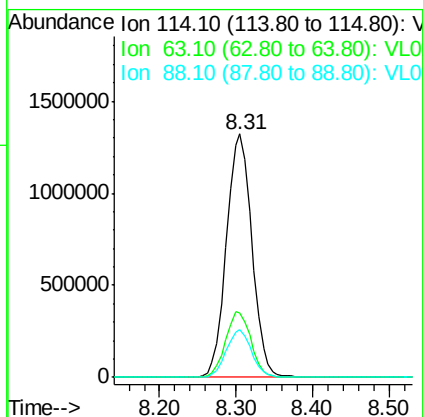
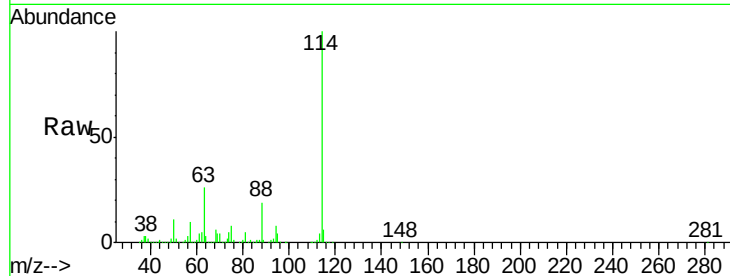
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.31 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 3047625
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.7 32.5
 88 19.4 15.2 22.8

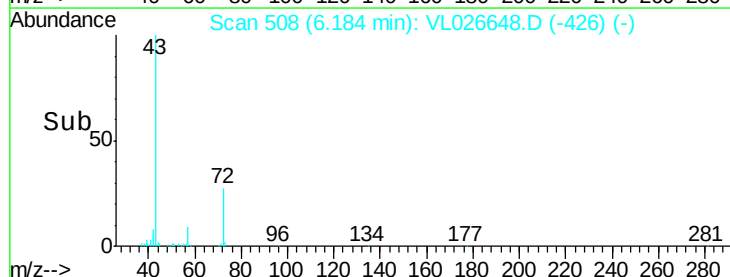
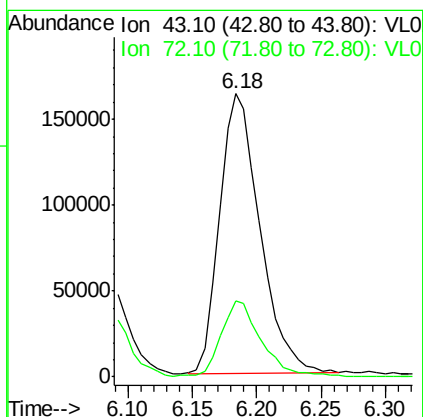
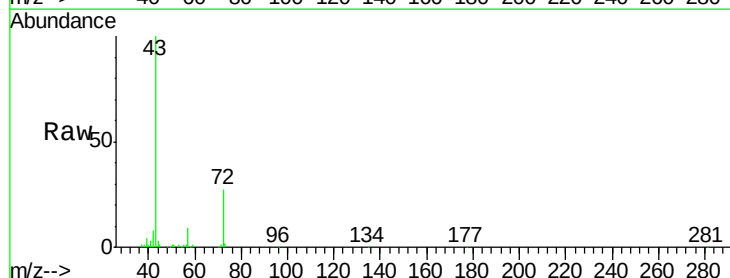
Manual Integrations
 APPROVED

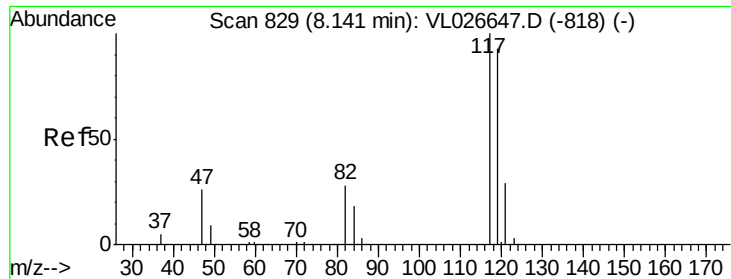
apatel
 1/11/2016 4:59:37 PM



#34
 2-Butanone
 Concen: 2.23 ppbv
 RT: 6.18 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion: 43 Resp: 356685
 Ion Ratio Lower Upper
 43 100
 72 27.6 20.9 31.3





#35

Carbon Tetrachloride

Concen: 1.94 ppbv

RT: 8.14 min Scan# 829

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

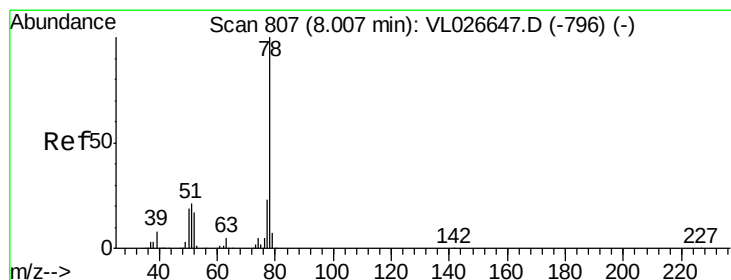
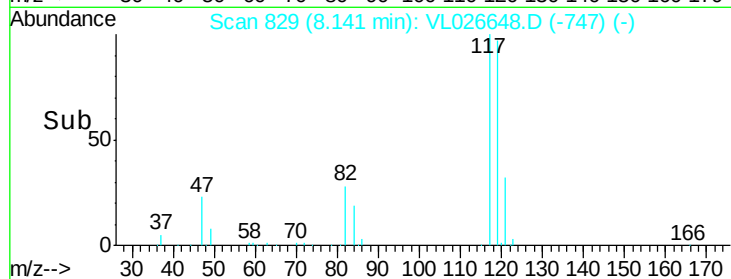
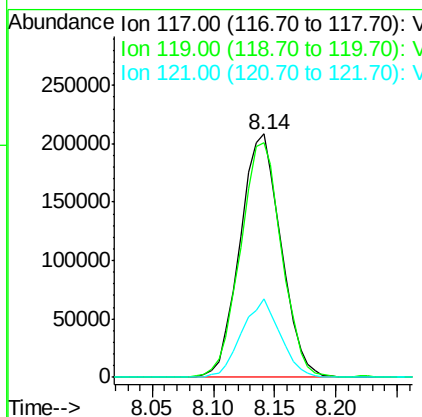
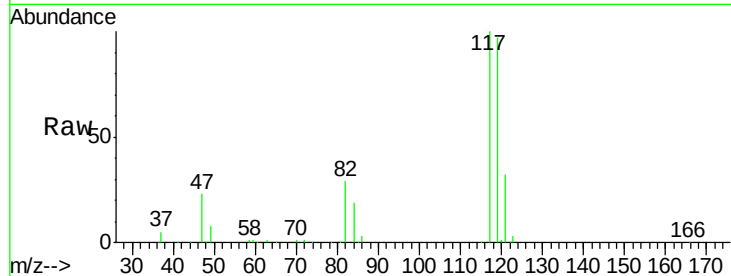
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	486475
Ion Ratio	Lower	Upper	
117	100		
119	96.5	74.7	112.1
121	32.0	23.1	34.7

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#36

Benzene

Concen: 2.25 ppbv

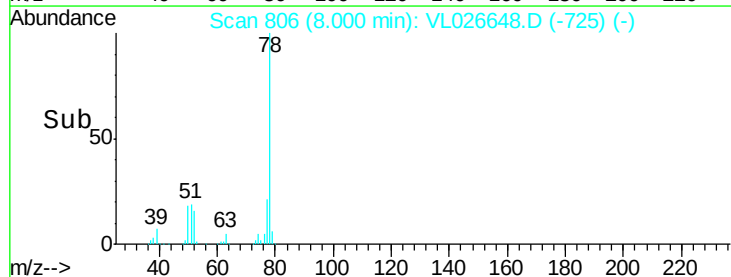
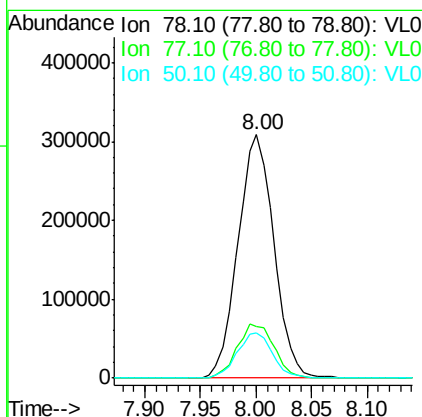
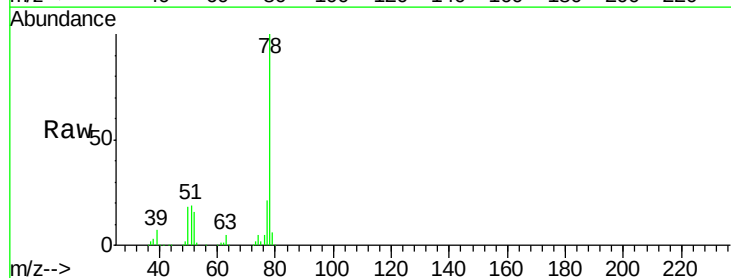
RT: 8.00 min Scan# 806

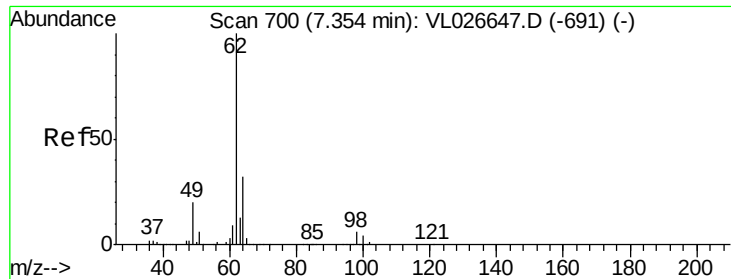
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	78	Resp:	693778
Ion Ratio	Lower	Upper	
78	100		
77	21.4	18.5	27.7
50	18.3	15.4	23.2





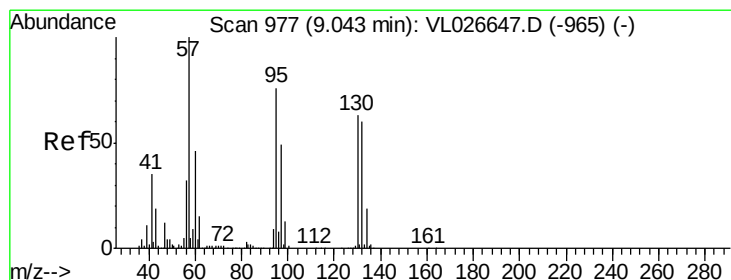
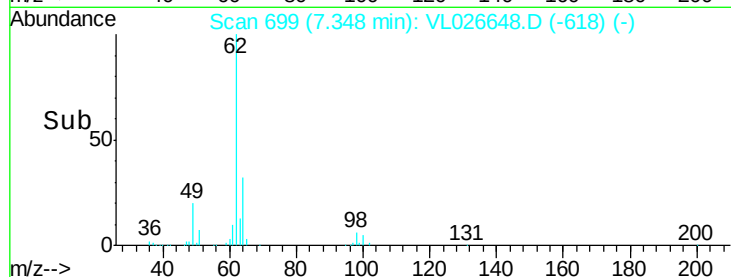
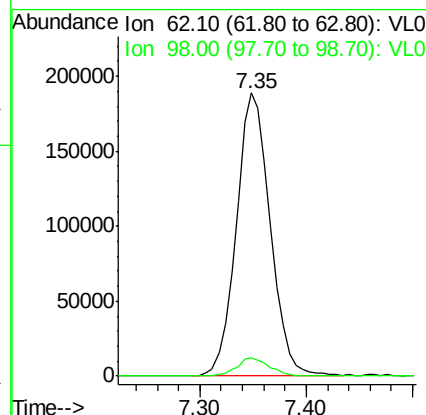
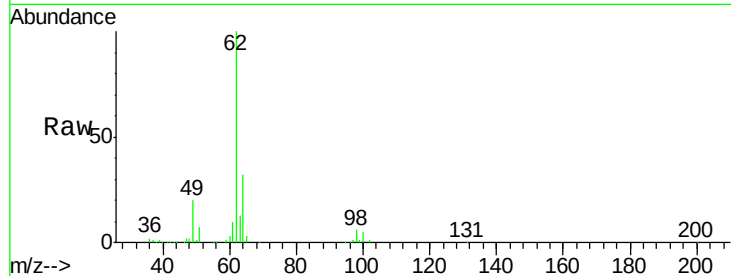
#37
 1,2-Dichloroethane
 Concen: 2.01 ppbv
 RT: 7.35 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	421655		
98	6.2		4.8	7.2

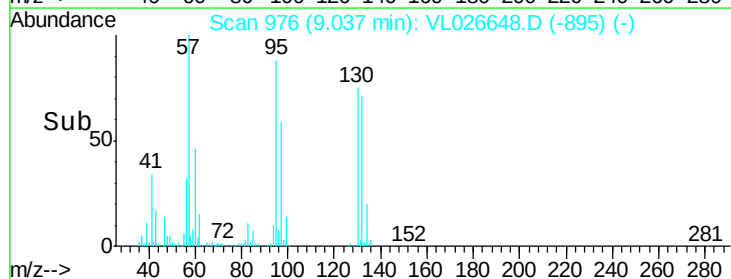
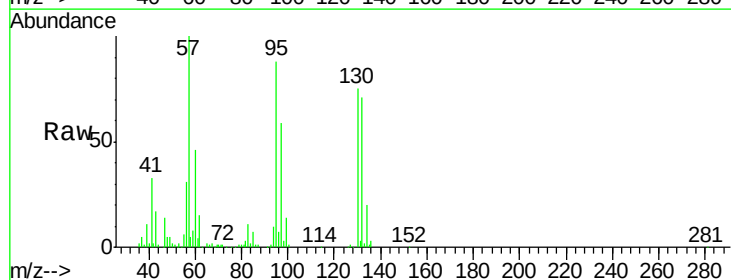
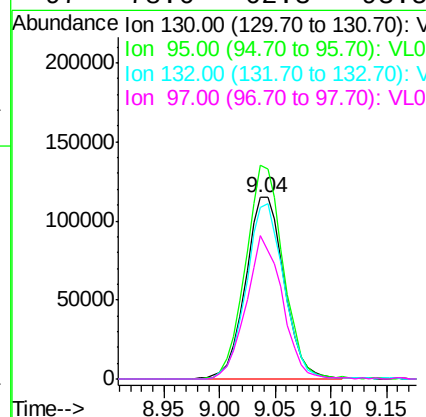
Manual Integrations
 APPROVED

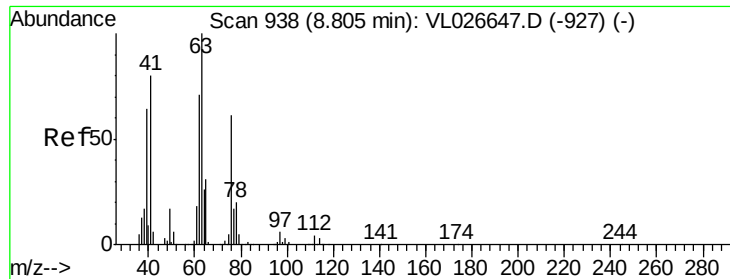
apatel
 1/11/2016 4:59:37 PM



#38
 Trichloroethene
 Concen: 2.32 ppbv
 RT: 9.04 min Scan# 976
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	276804		
95	117.5		96.6	145.0
132	94.3		76.2	114.4
97	78.6		62.3	93.5





#39

1,2-Dichloropropane

Concen: 2.21 ppbv

RT: 8.80 min Scan# 937

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

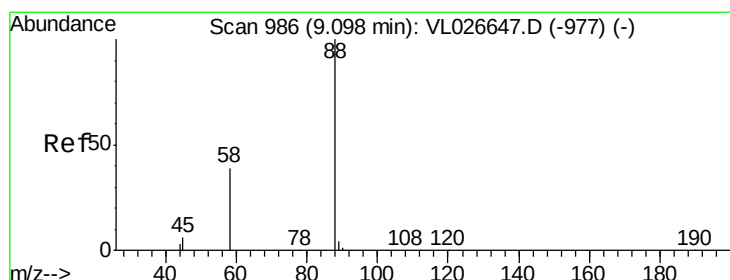
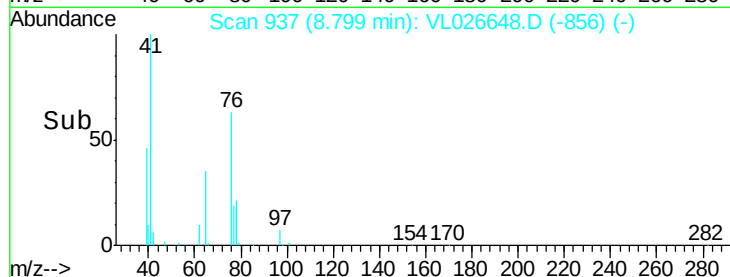
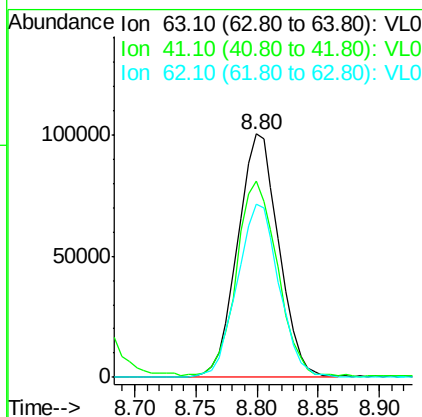
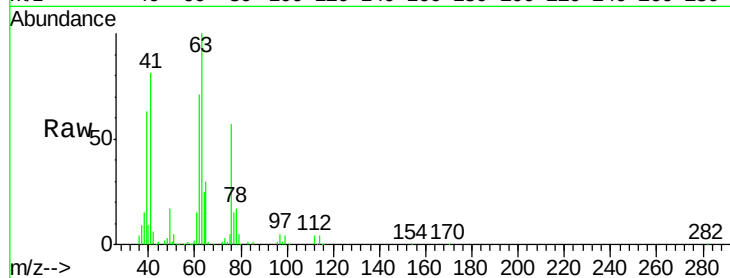
ClientSampled :

VSTDIC002

Tot Ion:	63	Resp:	235109
Ion	Ratio	Lower	Upper
63	100		
41	79.6	64.1	96.1
62	71.4	56.6	84.8

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#40

1,4-Dioxane

Concen: 1.78 ppbv

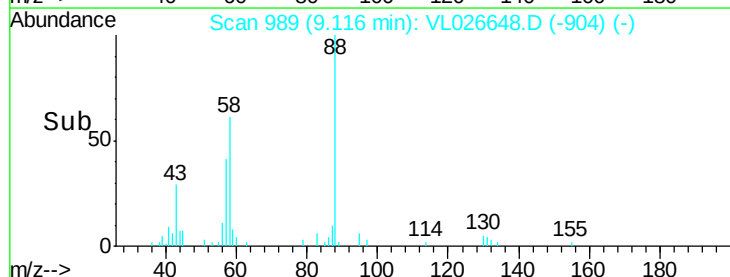
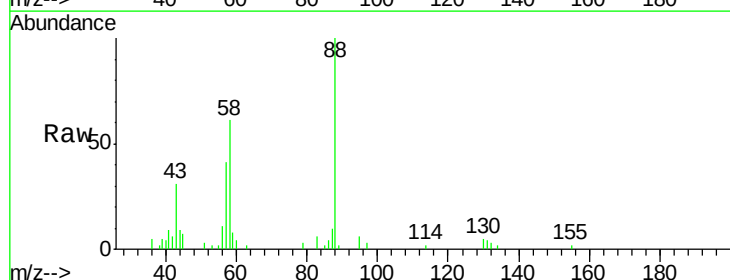
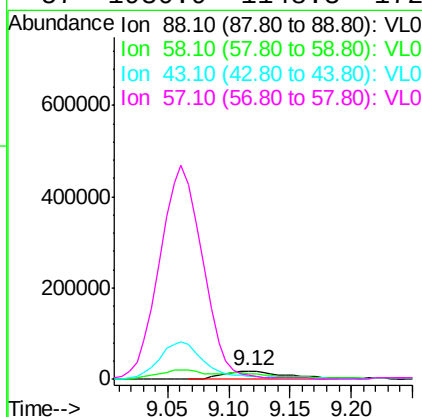
RT: 9.12 min Scan# 989

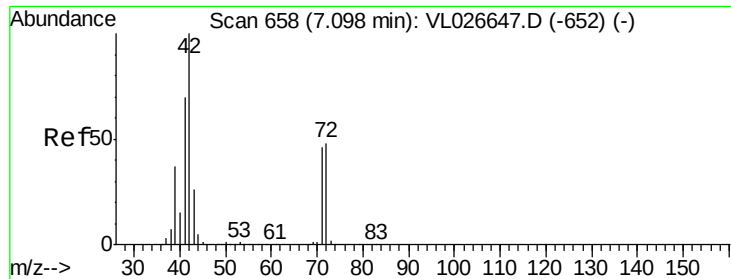
Delta R.T. 0.02 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	88	Resp:	60054
Ion	Ratio	Lower	Upper
88	100		
58	164.8	109.4	164.2#
43	368.1	238.2	357.2#
57	1930.9	1148.3	1722.5#





#41

Tetrahydrofuran

Concen: 2.23 ppbv

RT: 7.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

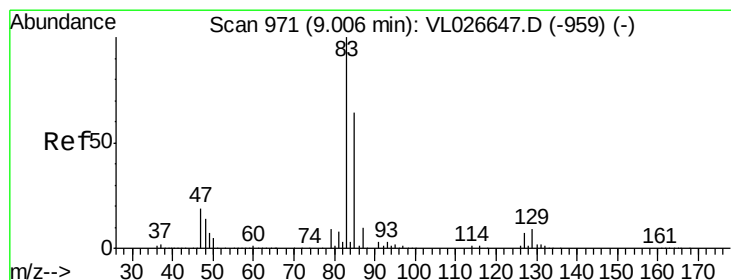
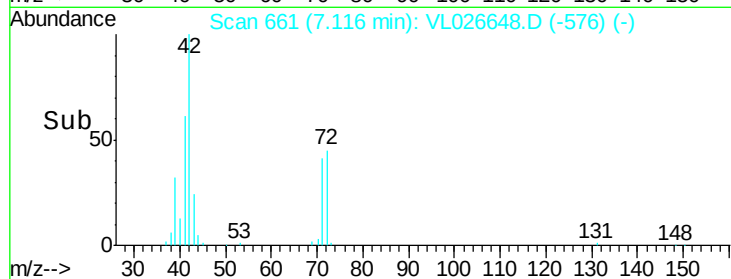
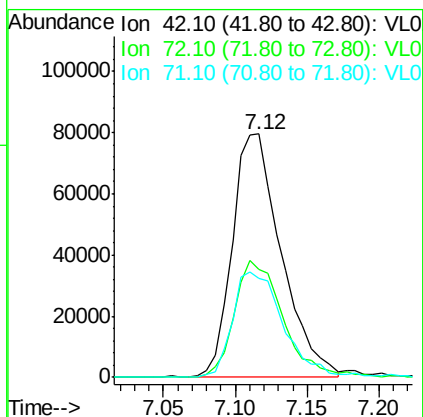
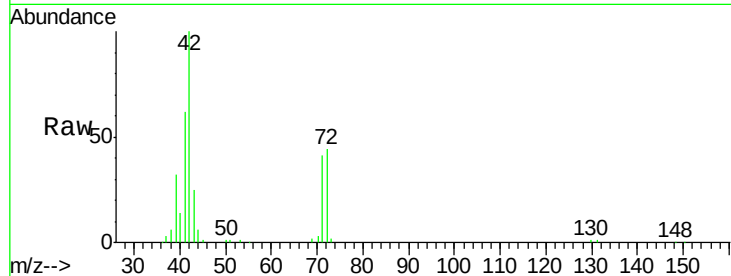
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	188540
Ion Ratio		Lower	Upper
42	100		
72	47.9	40.6	60.8
71	45.4	38.4	57.6

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#42

Bromodichloromethane

Concen: 2.07 ppbv

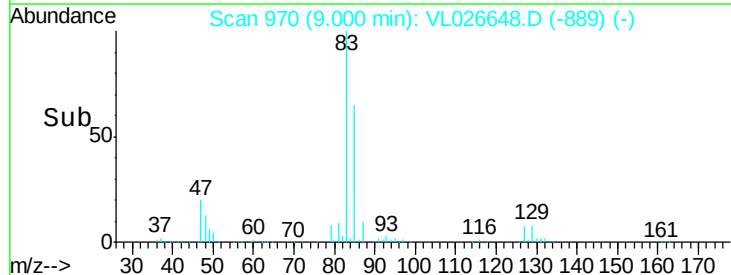
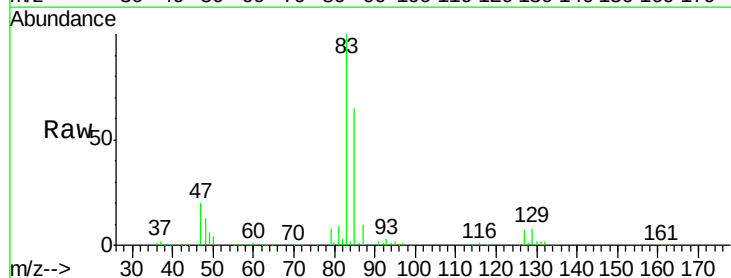
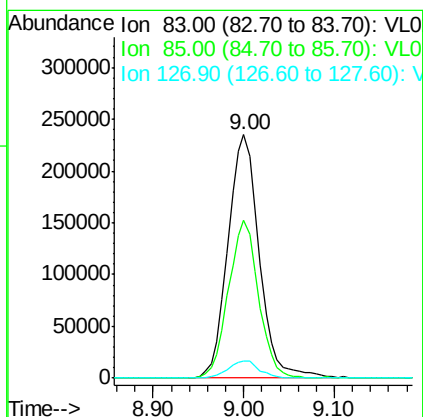
RT: 9.00 min Scan# 970

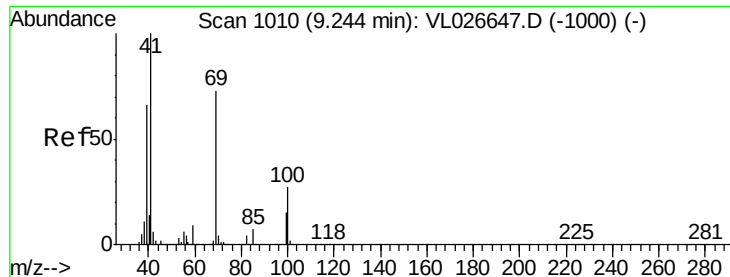
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	83	Resp:	564530
Ion Ratio		Lower	Upper
83	100		
85	64.9	50.9	76.3
127	7.1	5.5	8.3





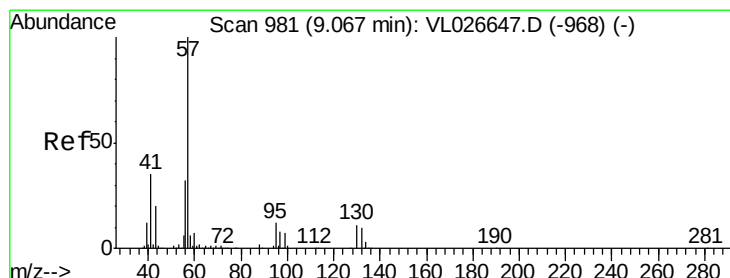
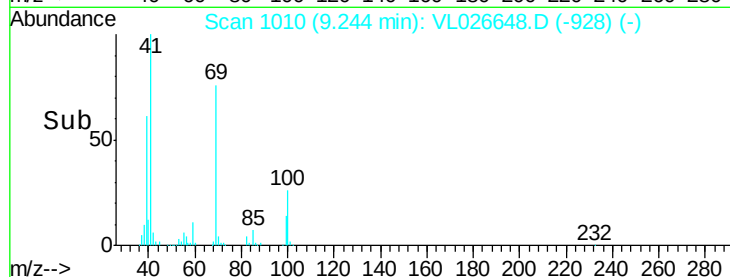
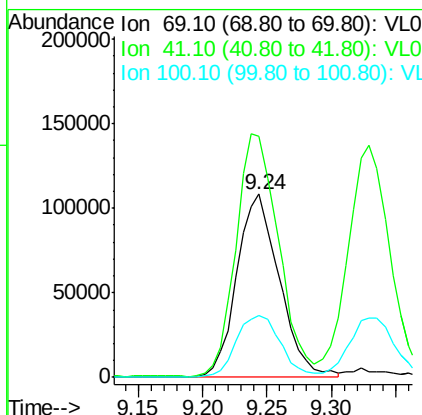
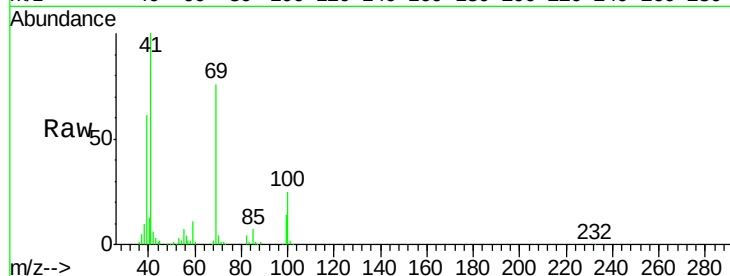
#43
Methyl Methacrylate
Concen: 2.05 ppbv
RT: 9.24 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		248534		
41	132.9	106.1	159.1		
100	35.1	29.0	43.4		

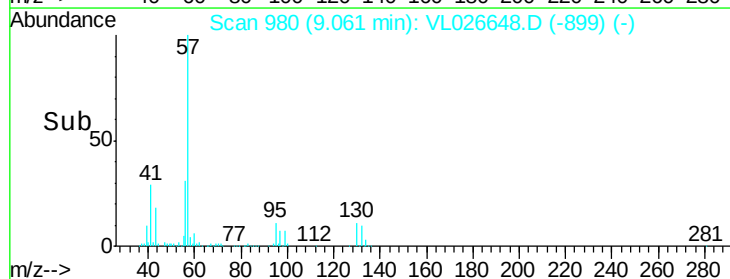
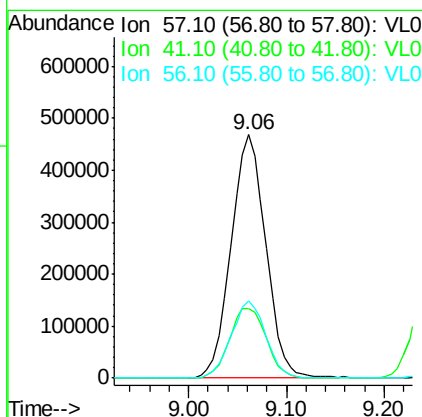
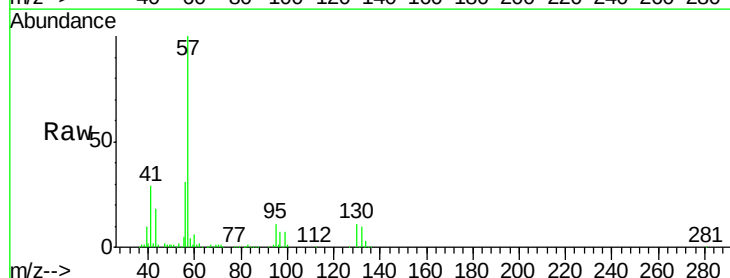
Manual Integrations
APPROVED

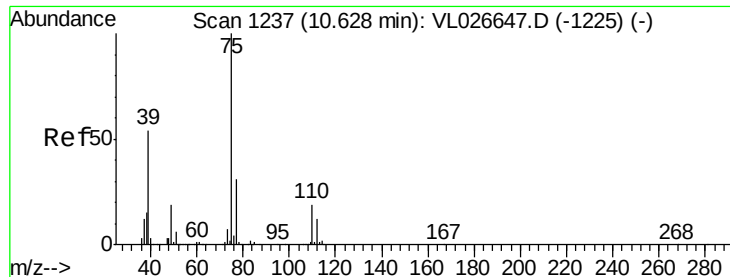
apatel
1/11/2016 4:59:37 PM



#44
2,2,4-Trimethylpentane
Concen: 2.38 ppbv
RT: 9.06 min Scan# 980
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		1149760		
41	30.3	26.9	40.3		
56	31.9	25.4	38.0		





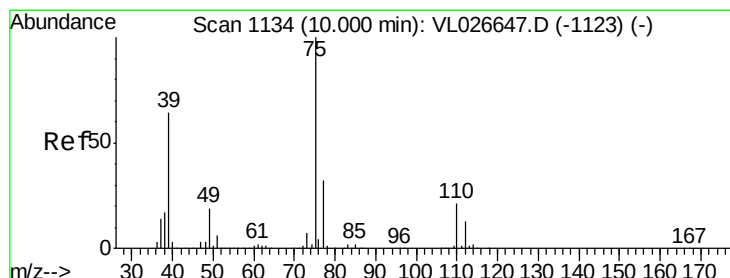
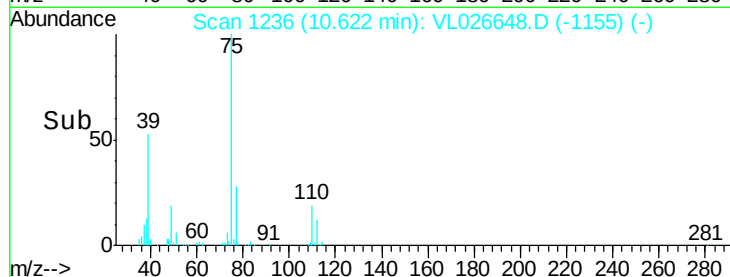
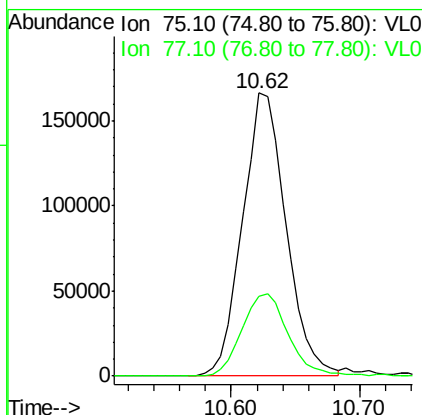
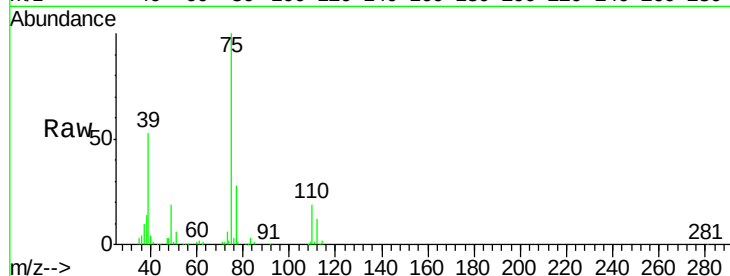
#45
 t-1,3-Dichloropropene
 Concen: 1.87 ppbv
 RT: 10.62 min Scan# 1236
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 75 Resp: 389773
 Ion Ratio Lower Upper
 75 100
 77 28.4 24.6 37.0

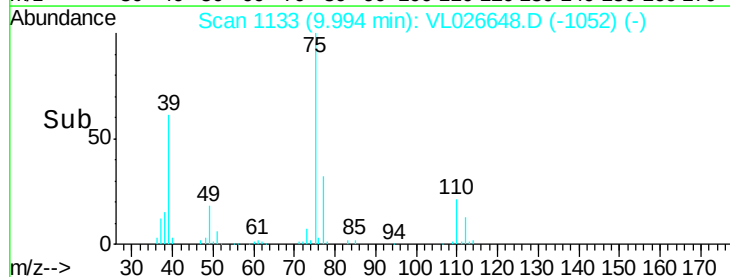
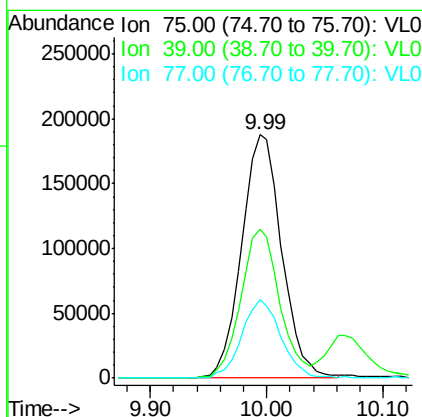
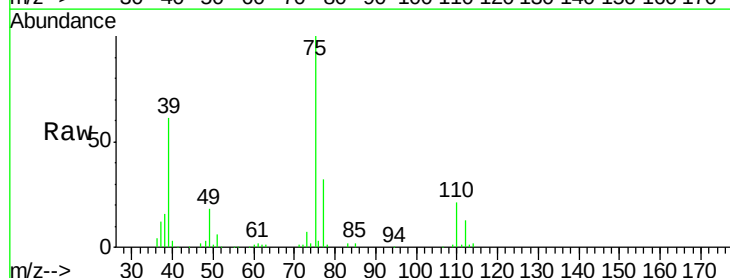
Manual Integrations
 APPROVED

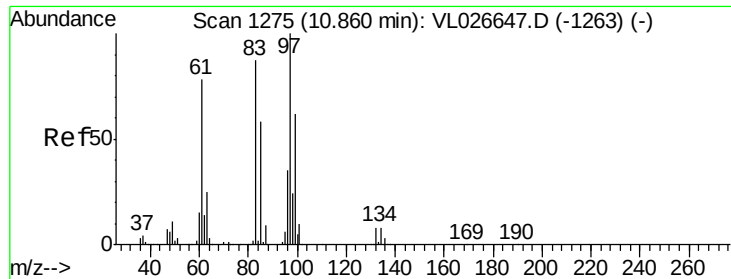
apatel
 1/11/2016 4:59:37 PM



#46
 cis-1,3-Dichloropropene
 Concen: 1.99 ppbv
 RT: 9.99 min Scan# 1133
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion: 75 Resp: 448988
 Ion Ratio Lower Upper
 75 100
 39 61.1 51.2 76.8
 77 32.2 25.9 38.9





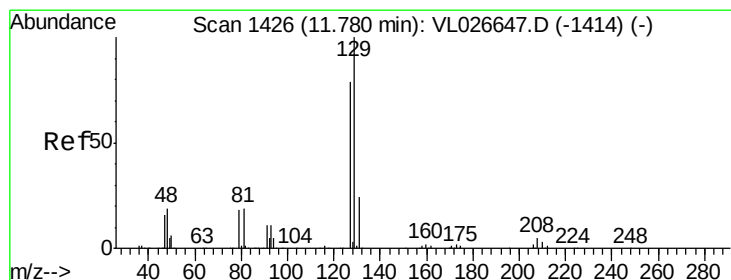
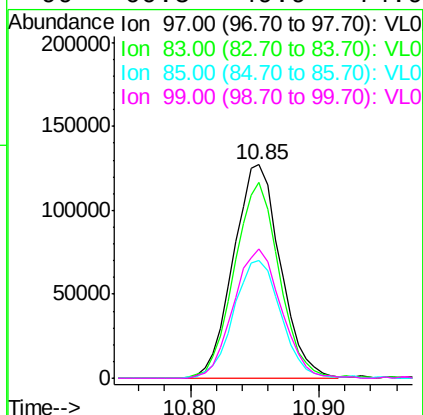
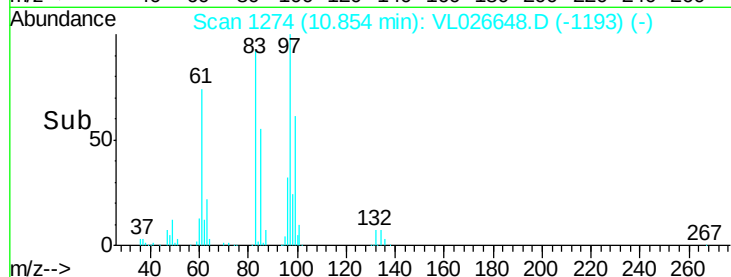
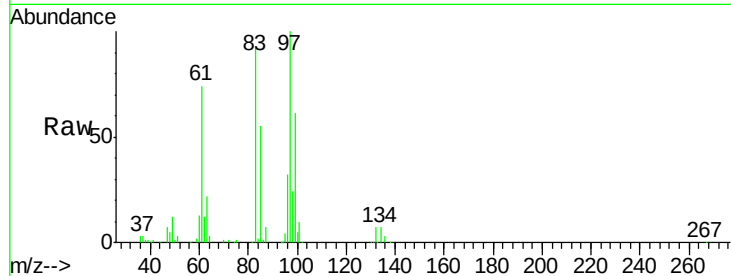
#47
 1,1,2-Trichloroethane
 Concen: 2.17 ppbv
 RT: 10.85 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.3	69.5	104.3
85	54.7	46.4	69.6
99	60.5	49.9	74.9

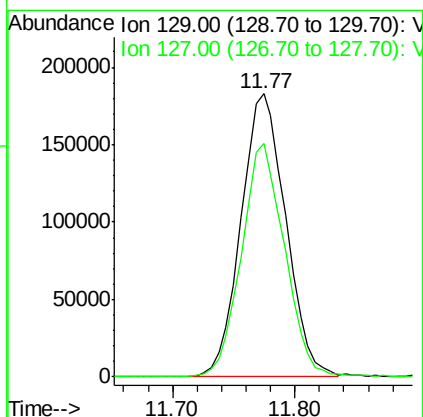
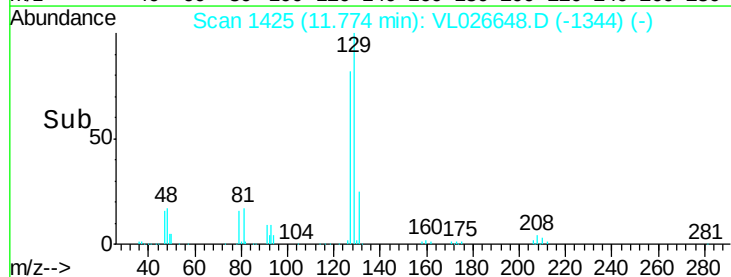
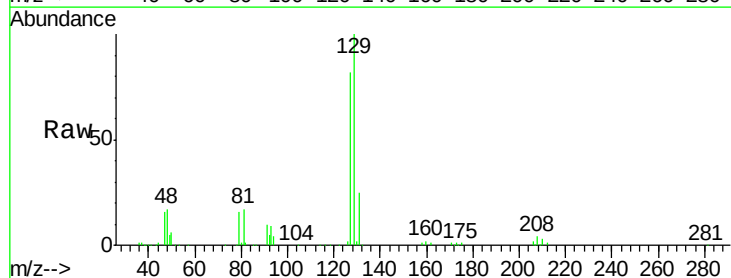
Manual Integrations
 APPROVED

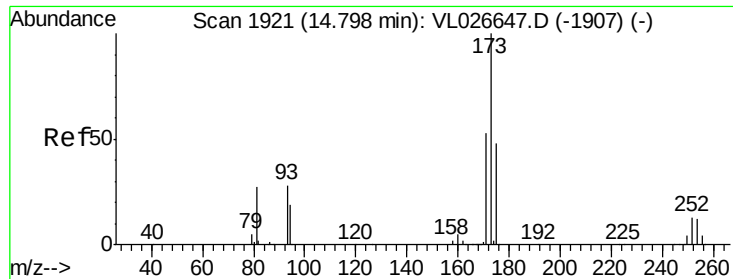
apatel
 1/11/2016 4:59:37 PM



#48
 Dibromochloromethane
 Concen: 1.98 ppbv
 RT: 11.77 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.5	118.5





#49

Bromoform

Concen: 1.97 ppbv

RT: 14.79 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

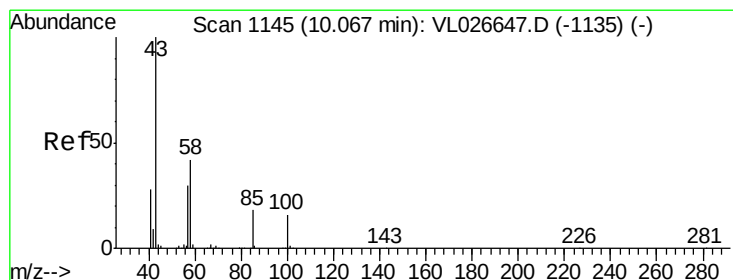
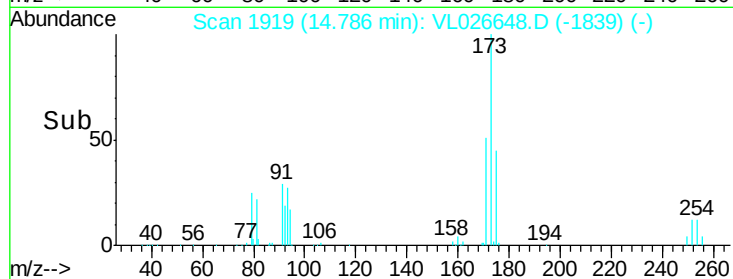
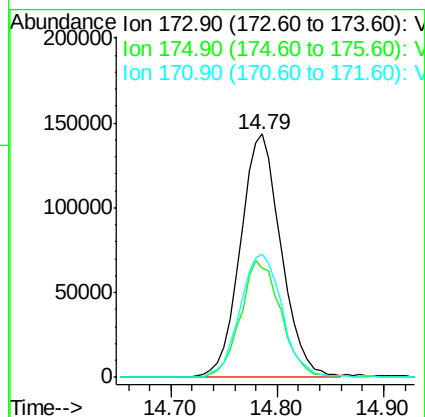
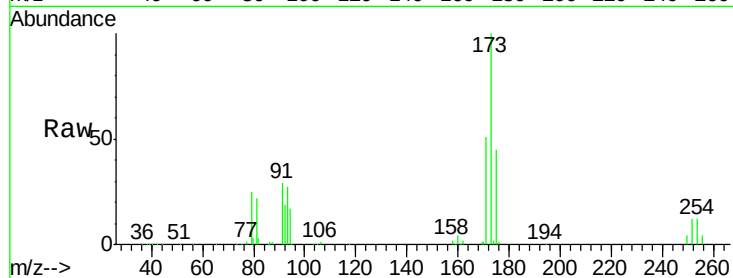
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.6	57.8
171	52.7	41.5	62.3

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#50

4-Methyl-2-Pentanone

Concen: 2.15 ppbv

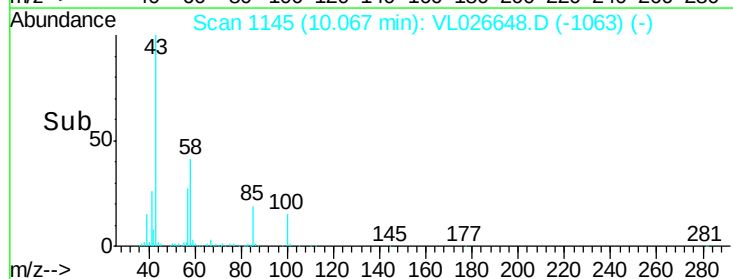
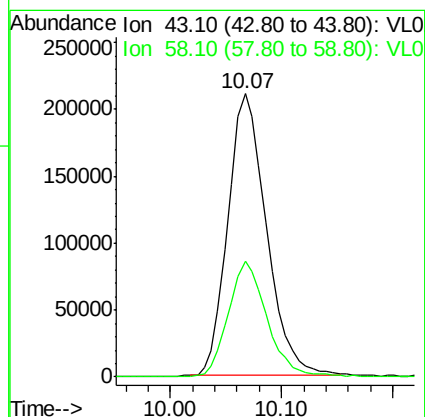
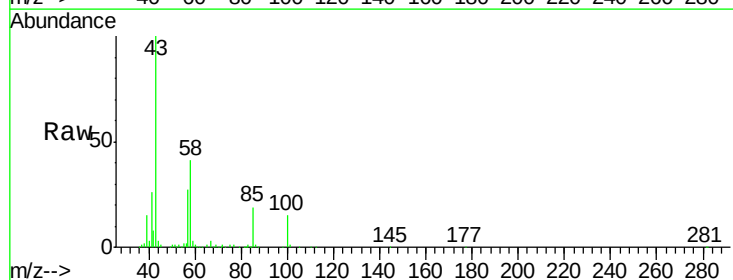
RT: 10.07 min Scan# 1145

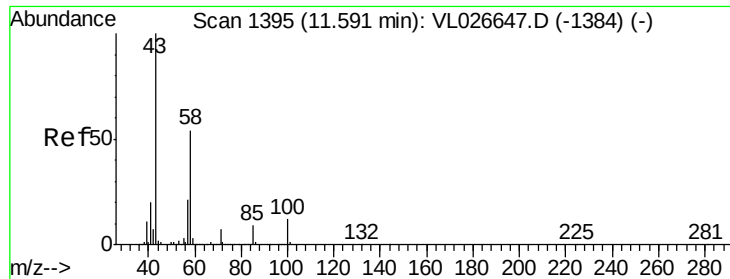
Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.2	32.4	48.6





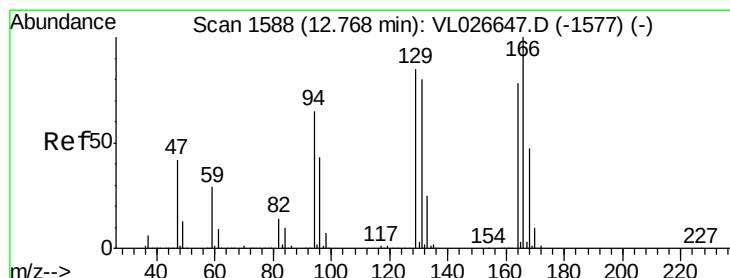
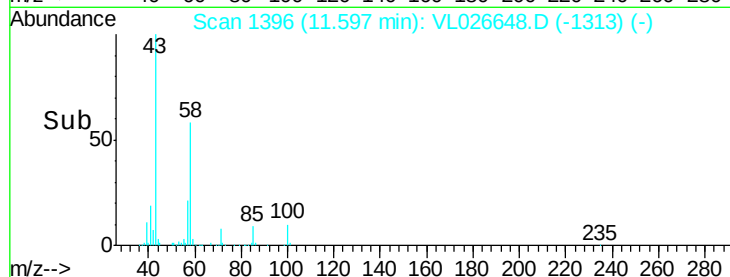
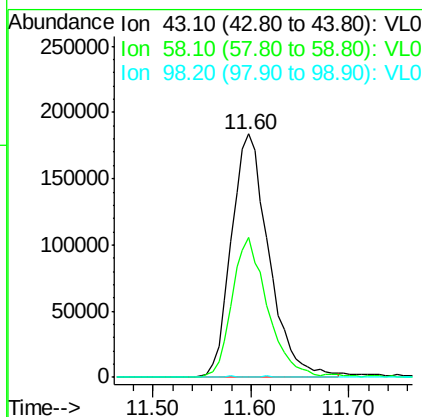
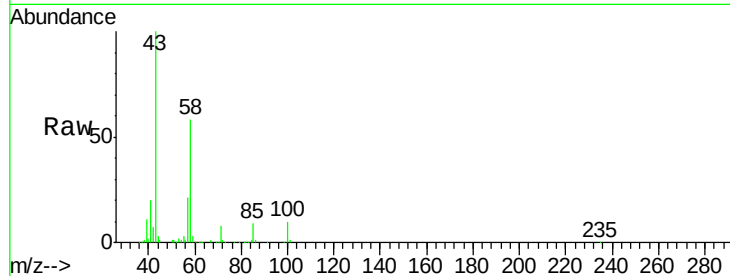
#51
2-Hexanone
Concen: 2.12 ppbv
RT: 11.60 min Scan# 1396
Delta R.T. 0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	44.9	67.3
98	0.5	0.2	0.2#

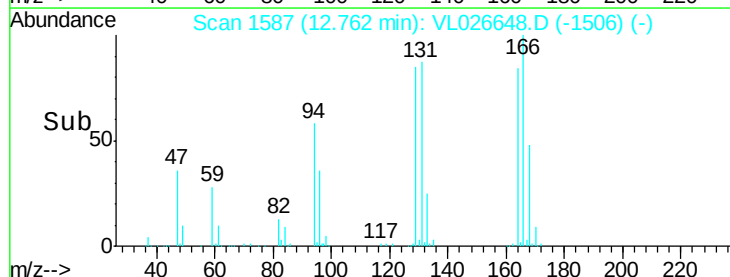
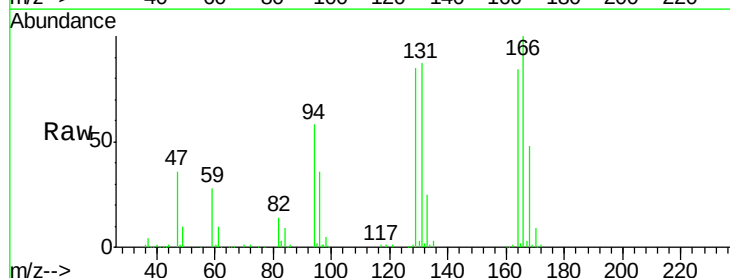
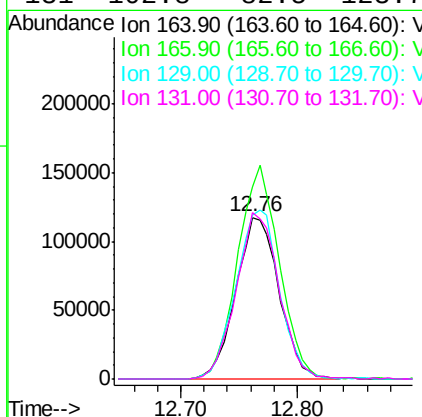
Manual Integrations
APPROVED

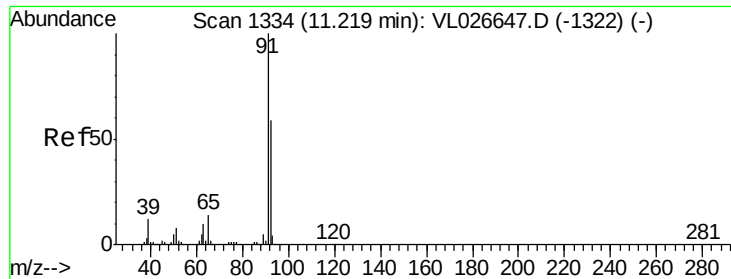
apatel
1/11/2016 4:59:37 PM



#52
Tetrachloroethene
Concen: 2.25 ppbv
RT: 12.76 min Scan# 1587
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.2	102.5	153.7
129	101.4	87.0	130.6
131	102.8	82.5	123.7





#53

Toluene

Concen: 2.19 ppbv

RT: 11.21 min Scan# 1332

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 961868

Ion Ratio Lower Upper

91 100

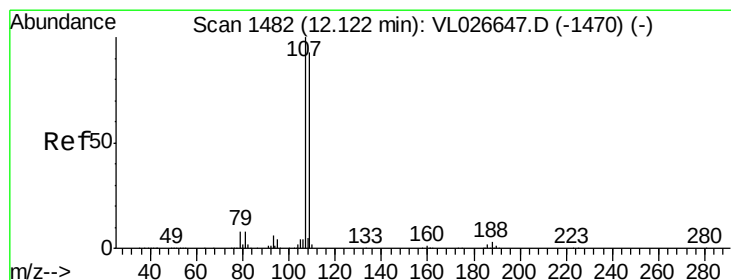
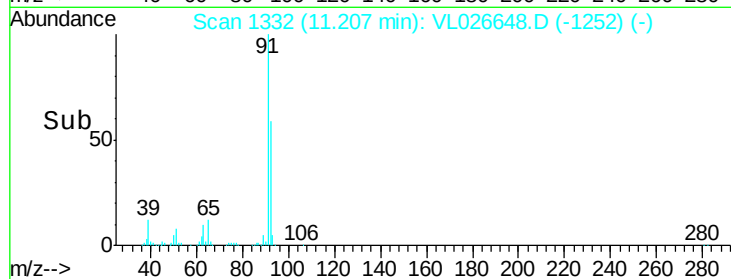
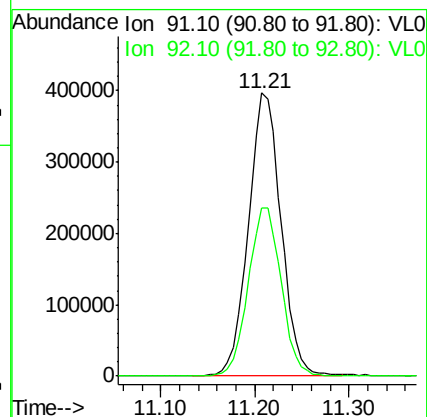
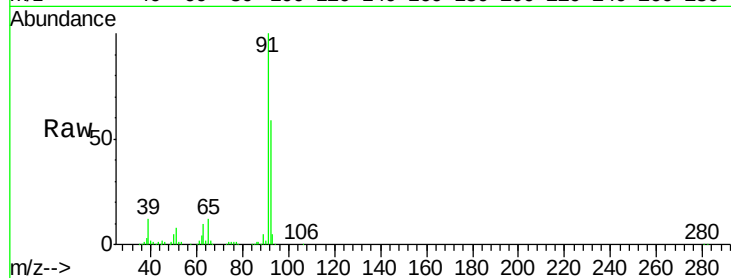
92 60.2 48.2 72.4

Manual Integrations

APPROVED

apatel

1/11/2016 4:59:37 PM



#54

1,2-Dibromoethane

Concen: 2.15 ppbv

RT: 12.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL026648.D

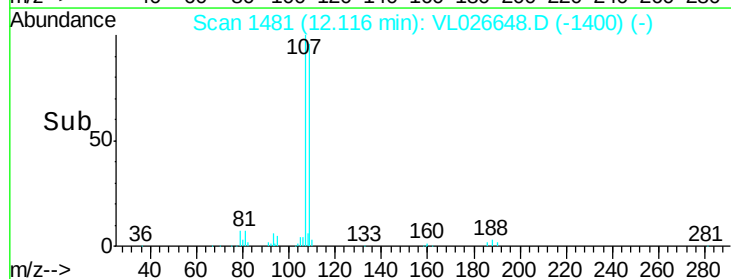
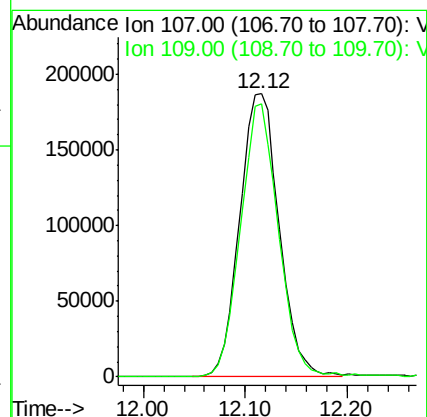
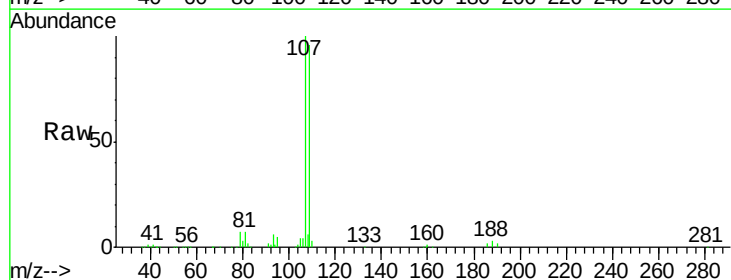
Acq: 8 Jan 2016 16:06

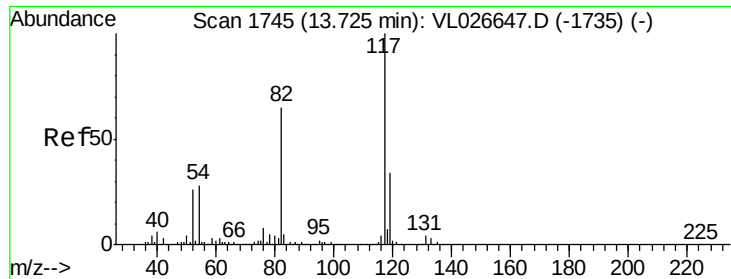
Tgt Ion: 107 Resp: 502512

Ion Ratio Lower Upper

107 100

109 96.3 74.1 111.1





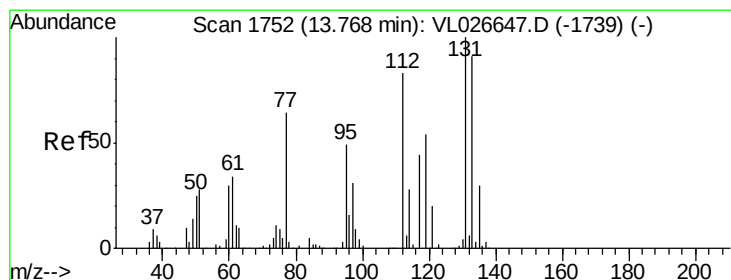
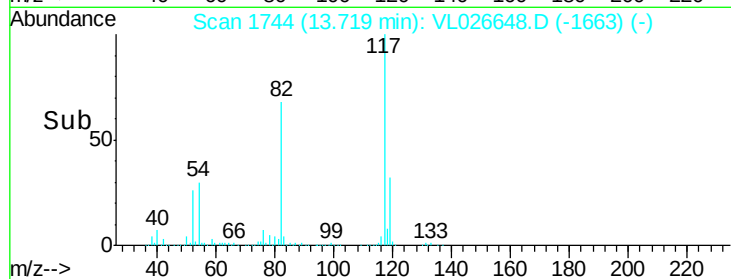
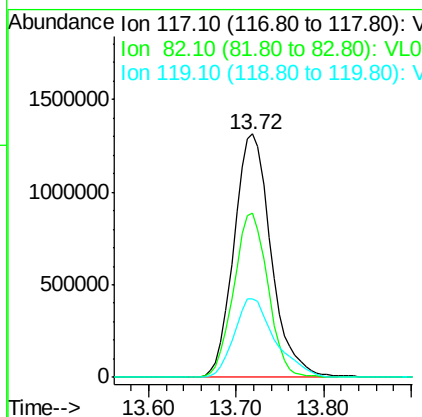
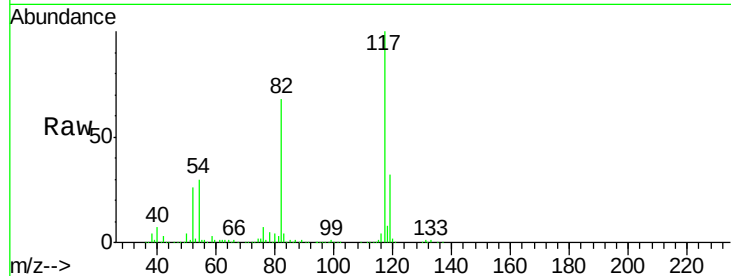
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.72 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:117 Resp: 3874073
Ion Ratio Lower Upper
117 100
82 62.9 52.4 78.6
119 35.8 46.1 69.1#

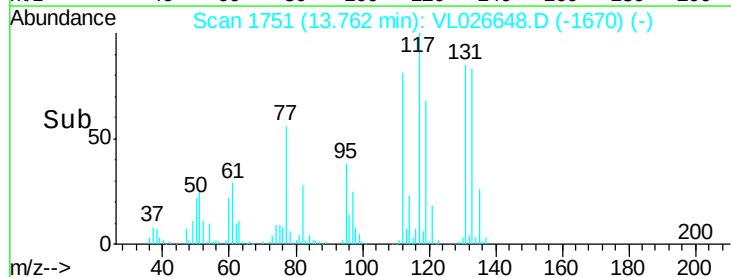
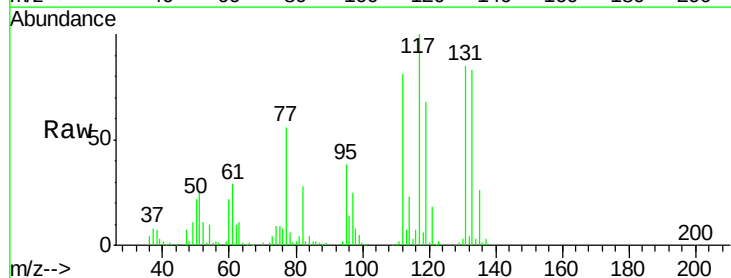
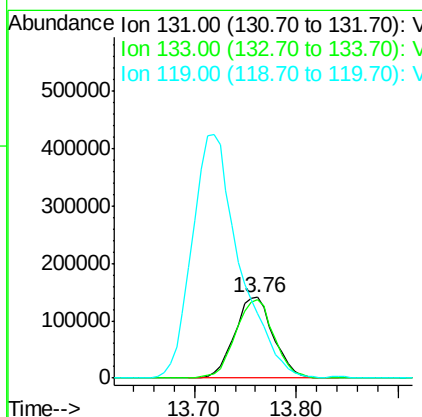
Manual Integrations
APPROVED

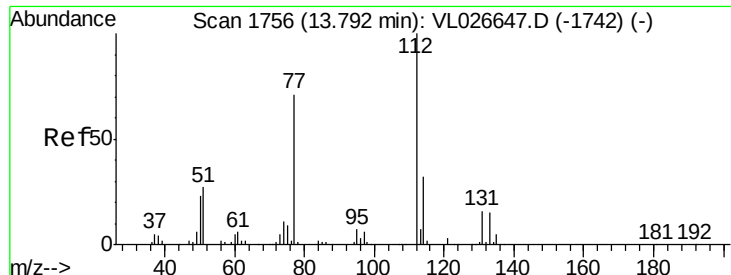
apatel
1/11/2016 4:59:37 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.17 ppbv
RT: 13.76 min Scan# 1751
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion:131 Resp: 370485
Ion Ratio Lower Upper
131 100
133 97.3 76.2 114.4
119 374.6 104.3 156.5#





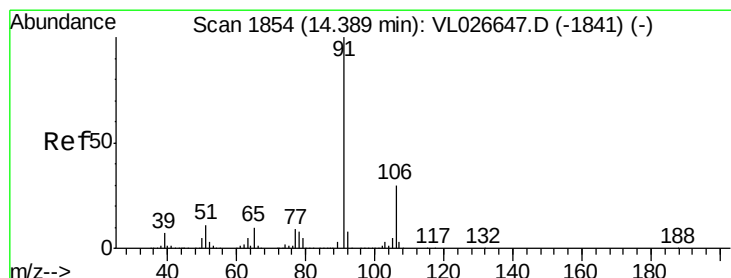
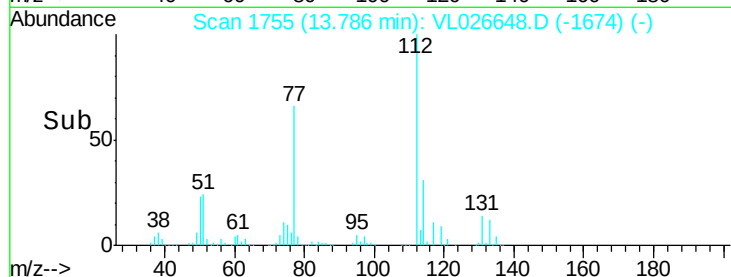
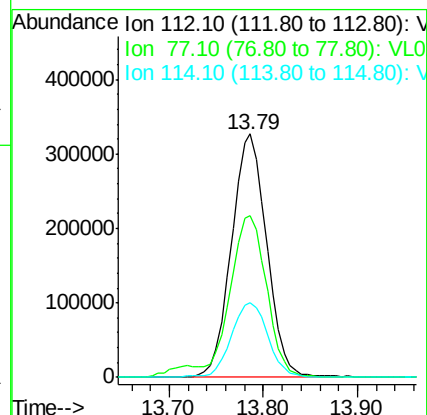
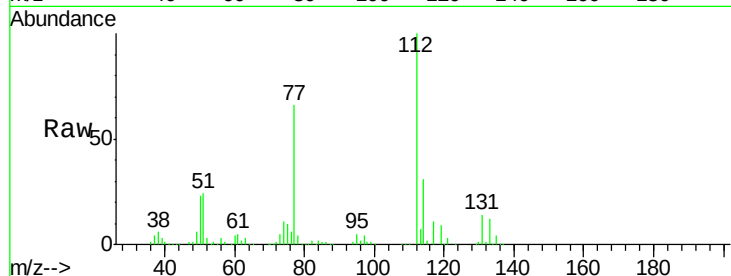
#57
Chlorobenzene
Concen: 2.33 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
112	100		
77	66.3	56.9	85.3
114	30.8	28.8	35.2

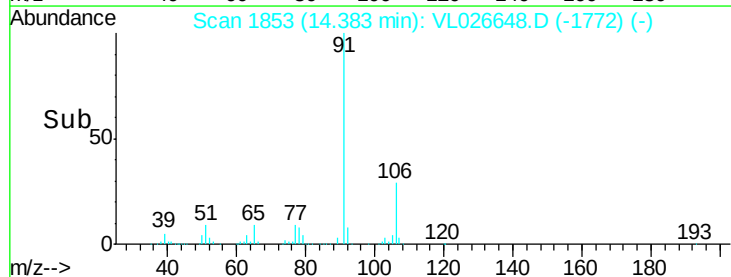
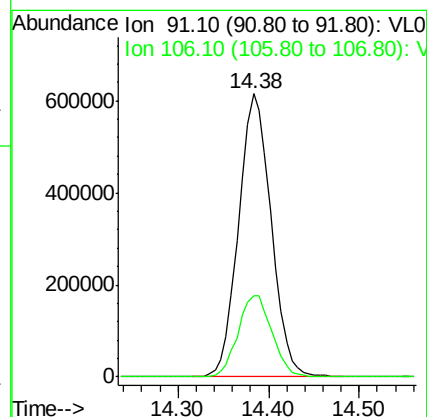
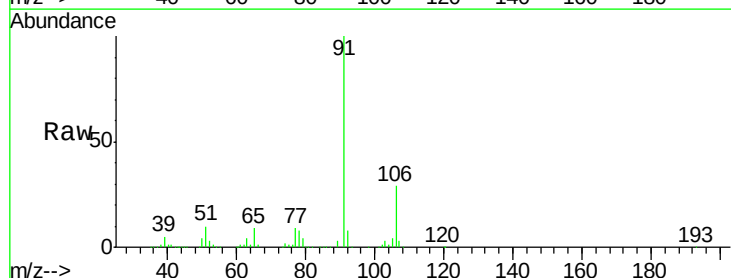
Manual Integrations
APPROVED

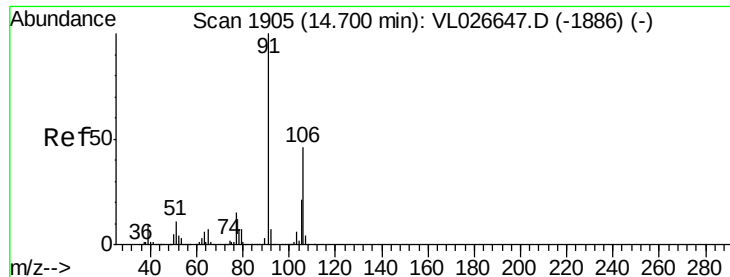
apatel
1/11/2016 4:59:37 PM



#58
Ethyl Benzene
Concen: 2.21 ppbv
RT: 14.38 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.6	23.8	35.6





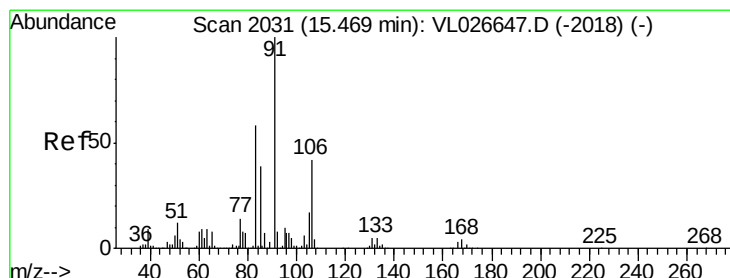
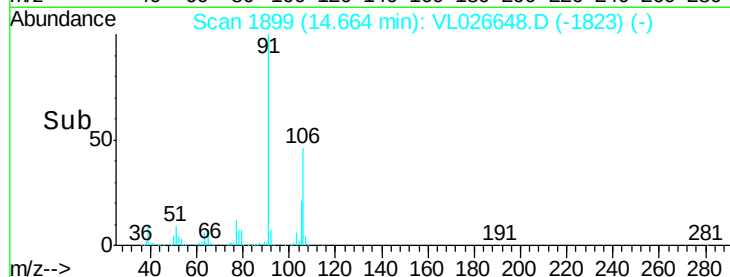
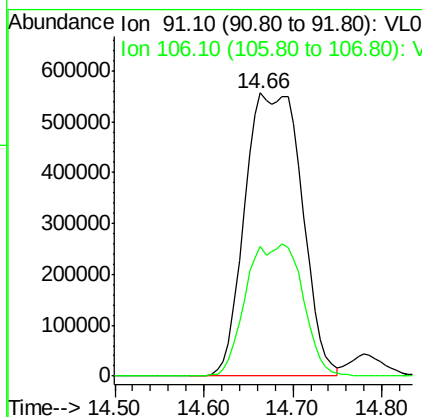
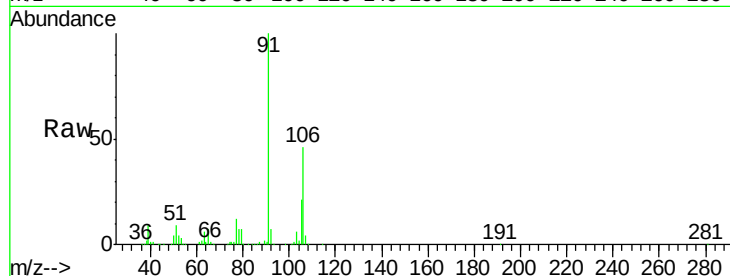
#59
m/p-Xylene
Concen: 4.60 ppbv m
RT: 14.66 min Scan# 1899
Delta R.T. -0.04 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 2467665
Ion Ratio Lower Upper
91 100
106 46.8 36.6 55.0

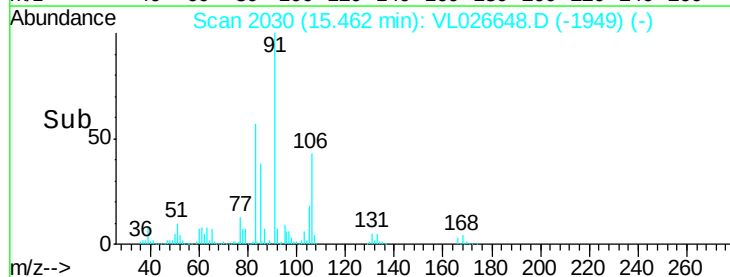
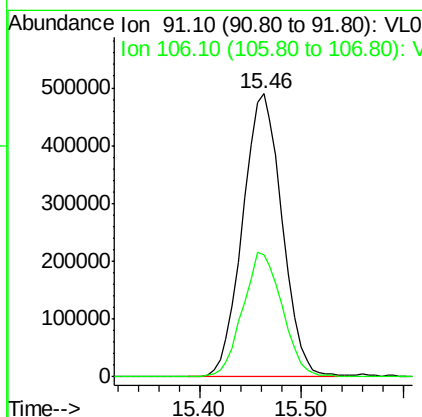
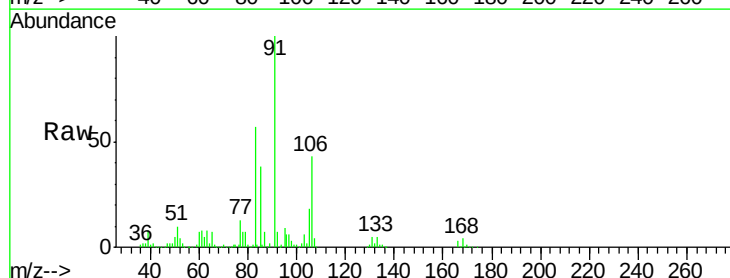
Manual Integrations
APPROVED

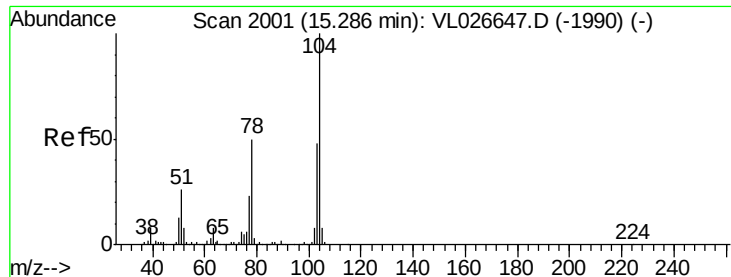
apatel
1/11/2016 4:59:37 PM



#60
o-Xylene
Concen: 2.38 ppbv
RT: 15.46 min Scan# 2030
Delta R.T. -0.01 min
Lab File: VL026648.D
Acq: 8 Jan 2016 16:06

Tgt Ion: 91 Resp: 1319169
Ion Ratio Lower Upper
91 100
106 44.0 21.4 64.3





#61

Stvrene

Concen: 2.03 ppbv

RT: 15.28 min Scan# 2000

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

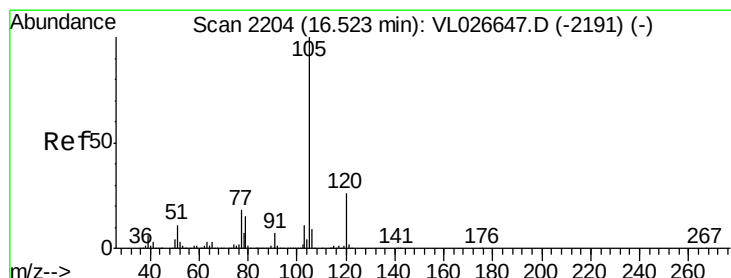
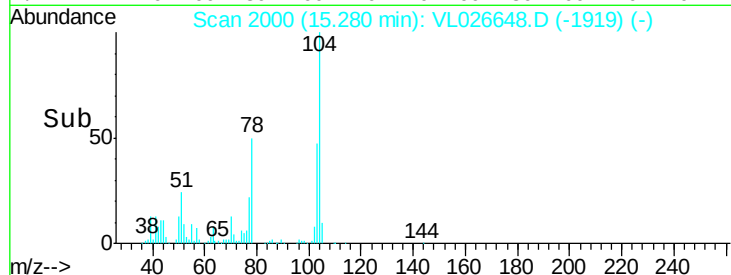
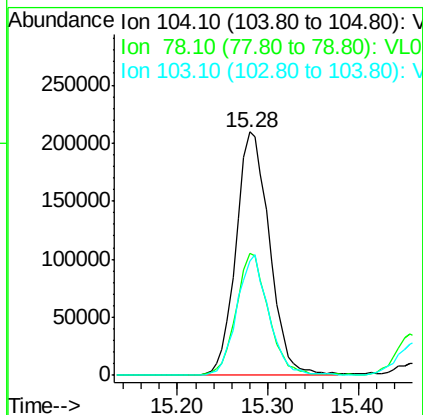
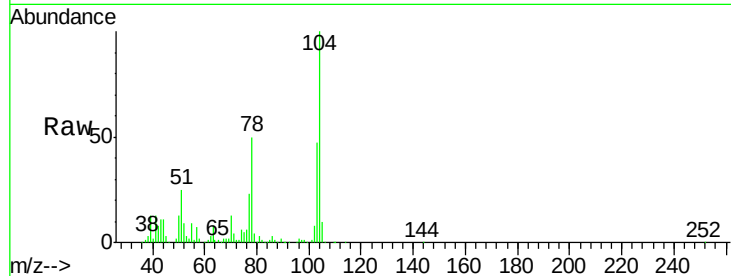
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.5	39.5	59.3
103	46.9	37.8	56.6

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#62

Isopropylbenzene

Concen: 2.26 ppbv

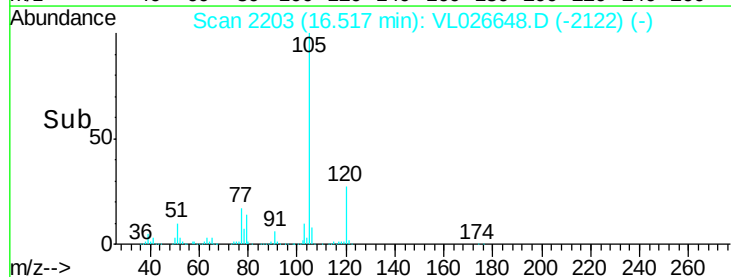
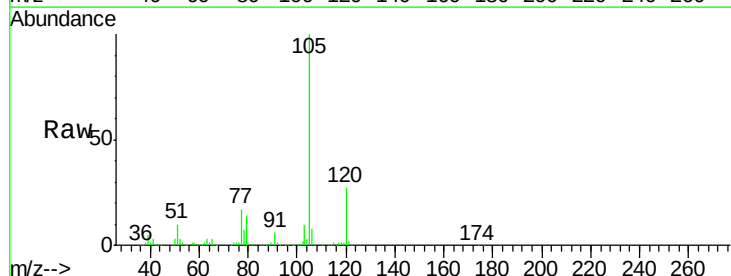
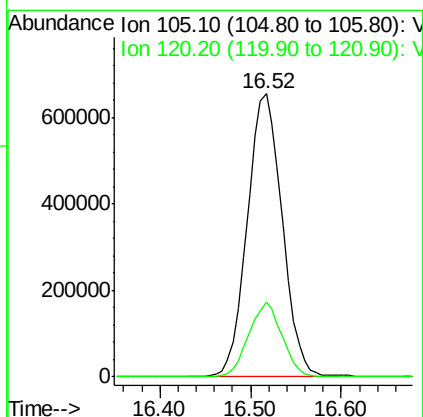
RT: 16.52 min Scan# 2203

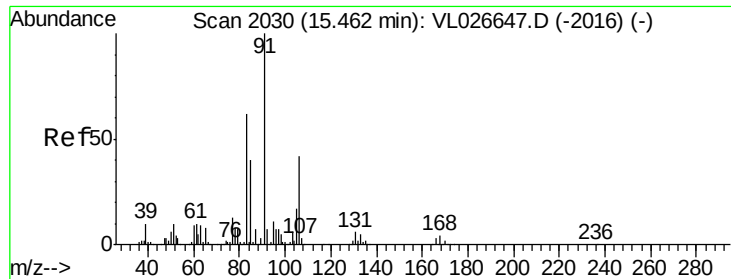
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.3	30.5





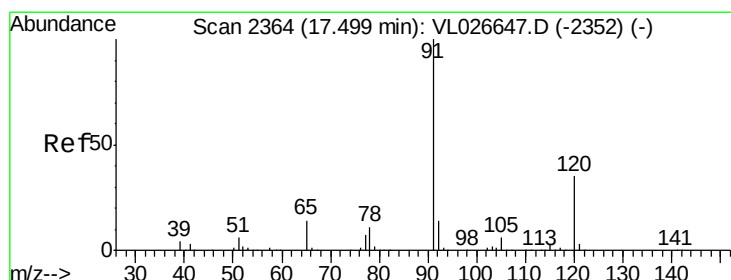
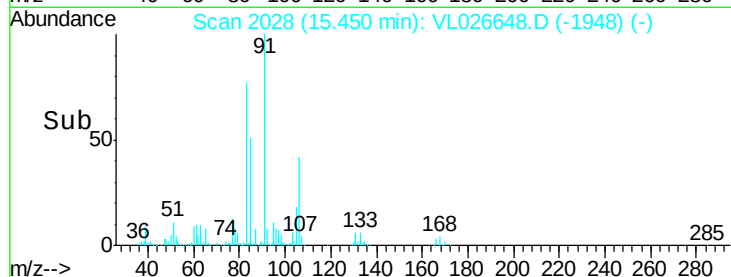
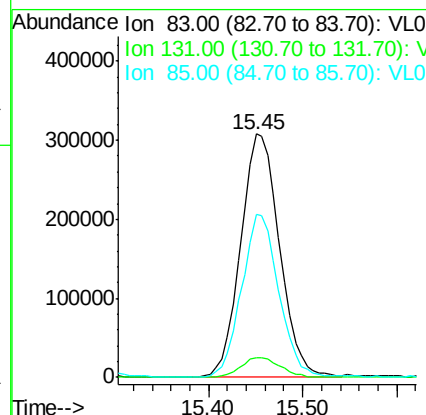
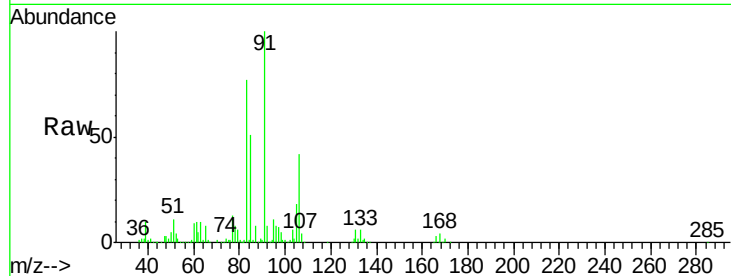
#63
 1,1,2,2-Tetrachloroethane
 Concen: 2.49 ppbv
 RT: 15.45 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.3	4.5	13.4
85	65.3	32.6	97.7

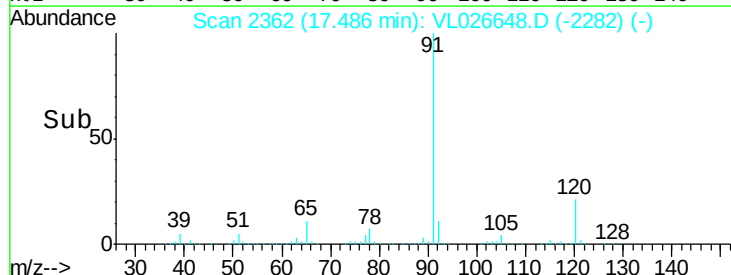
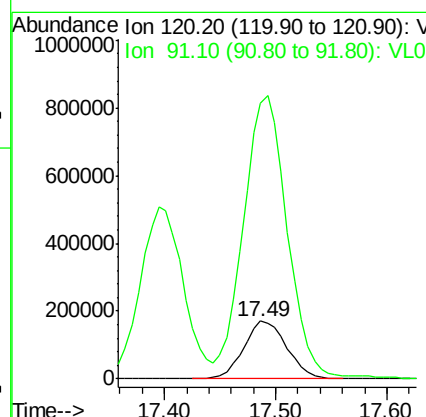
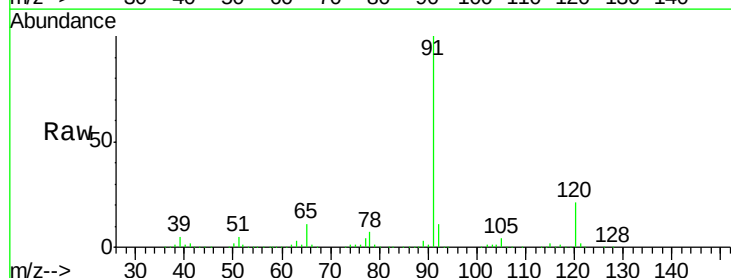
Manual Integrations
 APPROVED

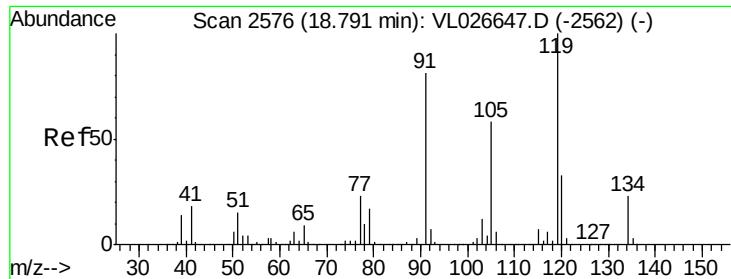
apatel
 1/11/2016 4:59:37 PM



#64
 n-propylbenzene
 Concen: 2.23 ppbv
 RT: 17.49 min Scan# 2362
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
120	100		
91	496.0	380.9	571.3





#65

tert-Butylbenzene

Concen: 2.61 ppbv

RT: 18.78 min Scan# 2575

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:119 Resp: 1683558

Ion Ratio Lower Upper

119 100

91 74.6 64.8 97.2

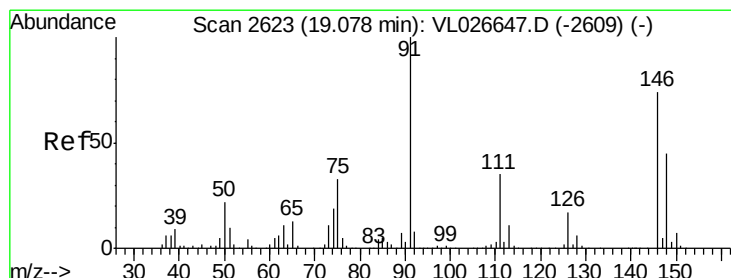
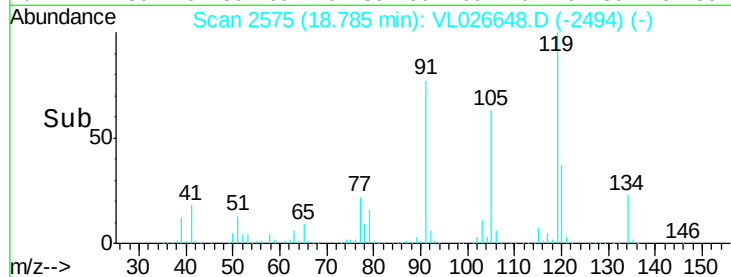
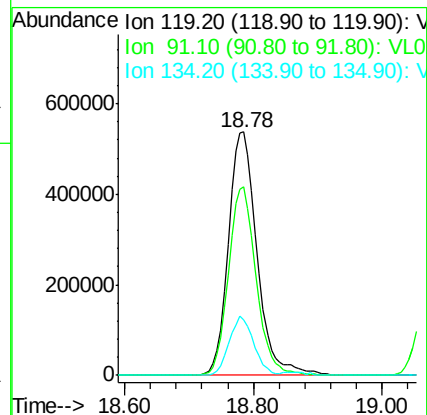
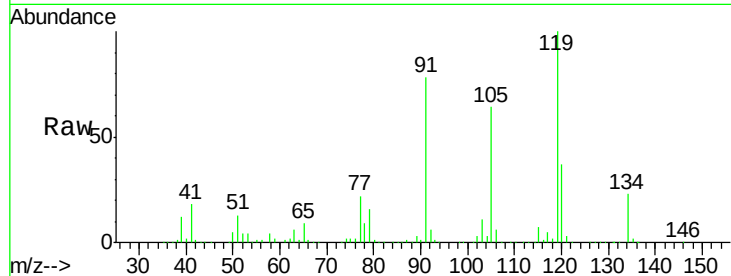
134 22.1 17.4 26.0

Manual Integrations

APPROVED

apatel

1/11/2016 4:59:37 PM



#66

Benzyl Chloride

Concen: 1.89 ppbv

RT: 19.08 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

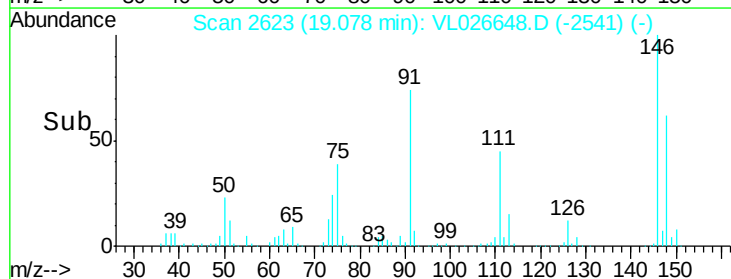
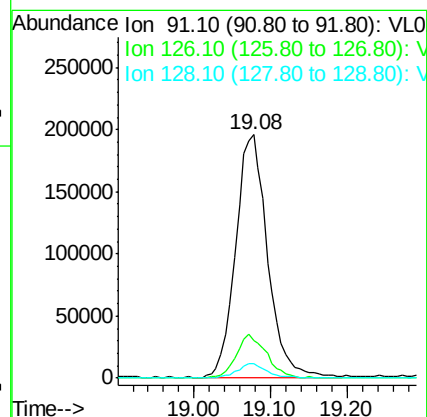
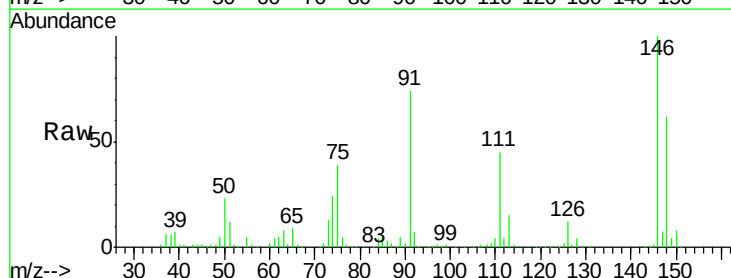
Tgt Ion: 91 Resp: 565884

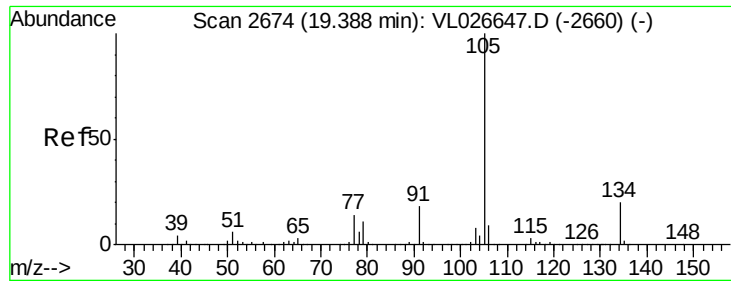
Ion Ratio Lower Upper

91 100

126 17.3 14.2 21.2

128 5.7 4.5 6.7





#67

sec-Butylbenzene

Concen: 2.37 ppbv

RT: 19.38 min Scan# 2673

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 2373471

Ion Ratio Lower Upper

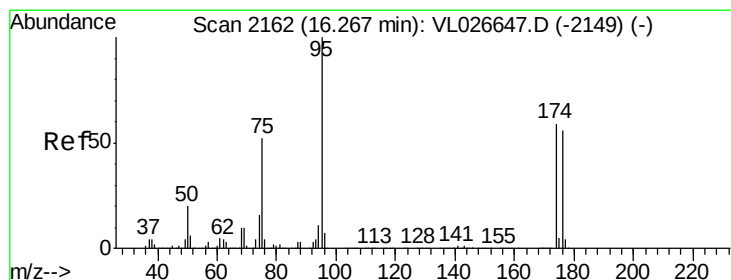
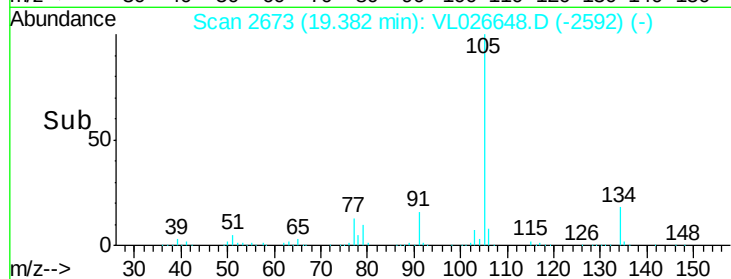
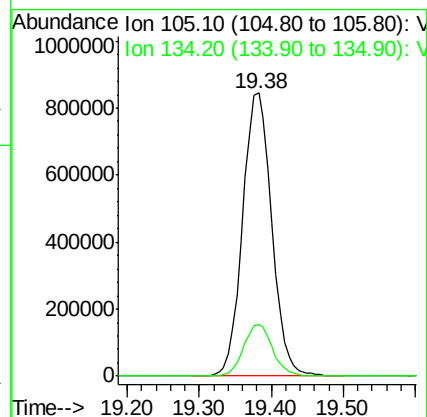
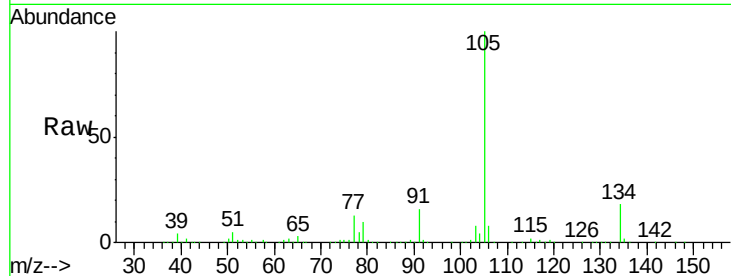
105 100

134 18.2 14.9 22.3

Manual Integrations
APPROVED

apatel

1/11/2016 4:59:37 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.40 ppbv

RT: 16.25 min Scan# 2160

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

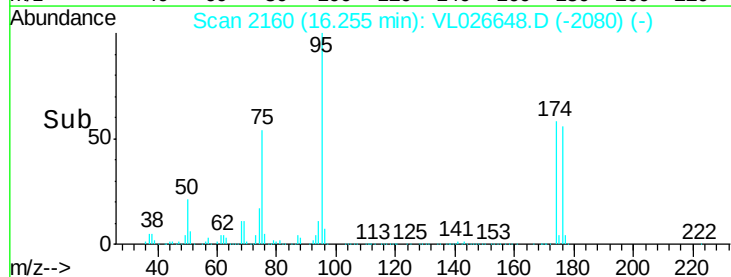
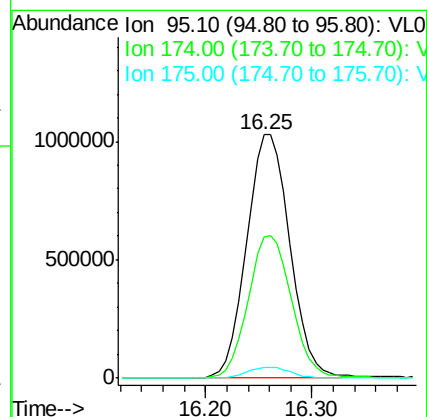
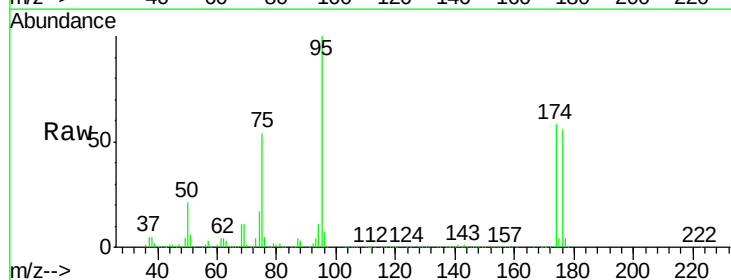
Tgt Ion: 95 Resp: 2936000

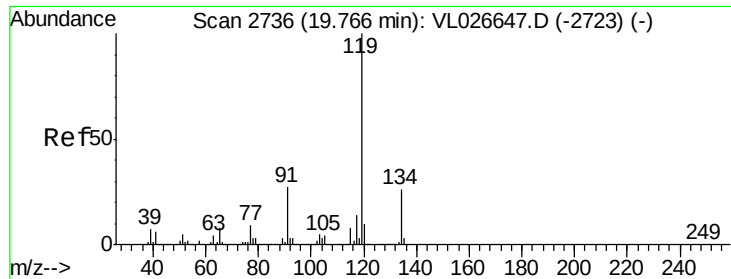
Ion Ratio Lower Upper

95 100

174 59.2 47.8 71.6

175 4.5 3.5 5.3





#69

p-Isopropyltoluene

Concen: 2.34 ppbv

RT: 19.76 min Scan# 2735

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 119 Resp: 1841423

Ion Ratio Lower Upper

119 100

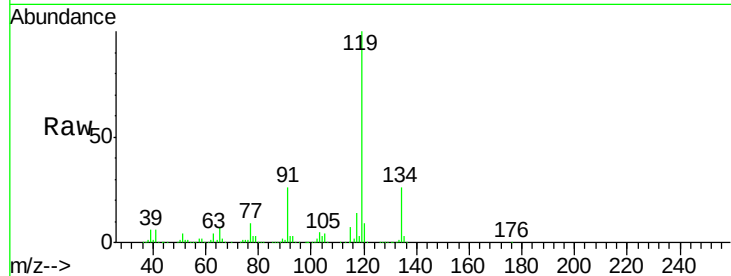
134 25.8 20.6 31.0

91 25.8 21.8 32.6

Manual Integrations
APPROVED

apatel

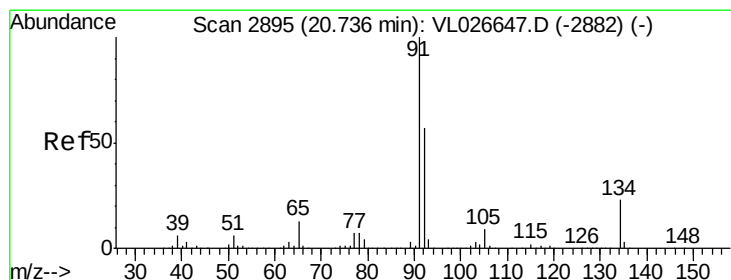
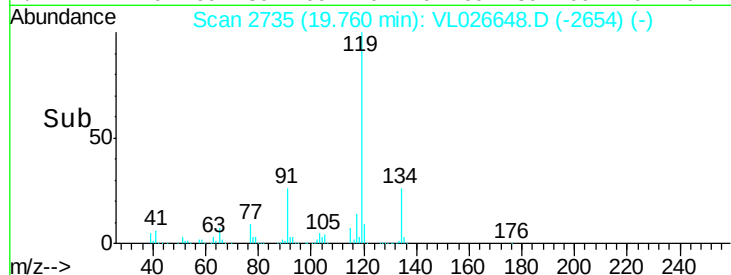
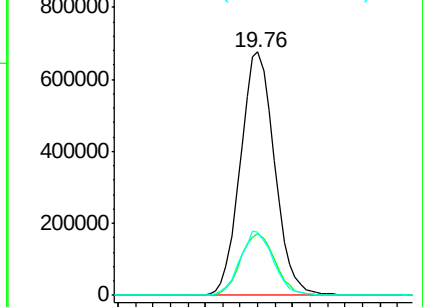
1/11/2016 4:59:37 PM



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 2.34 ppbv

RT: 20.73 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

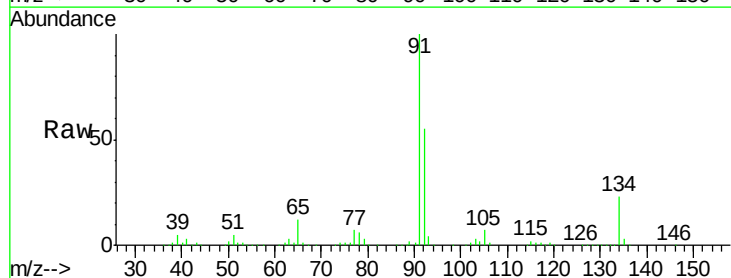
Tgt Ion: 91 Resp: 1943007

Ion Ratio Lower Upper

91 100

92 54.7 45.0 67.6

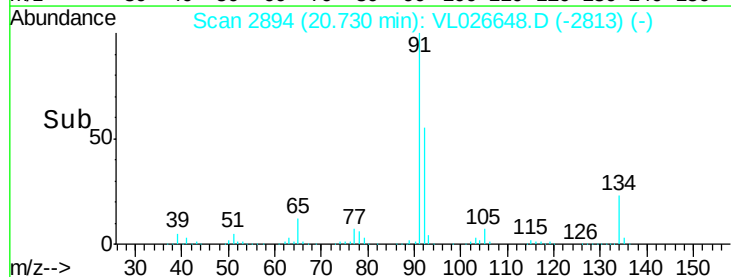
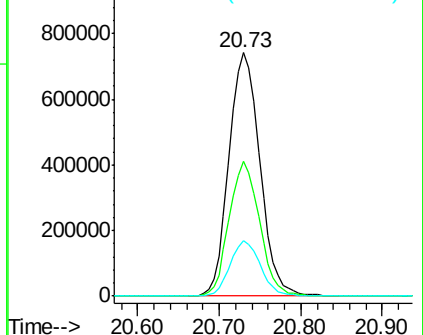
134 22.5 18.2 27.2

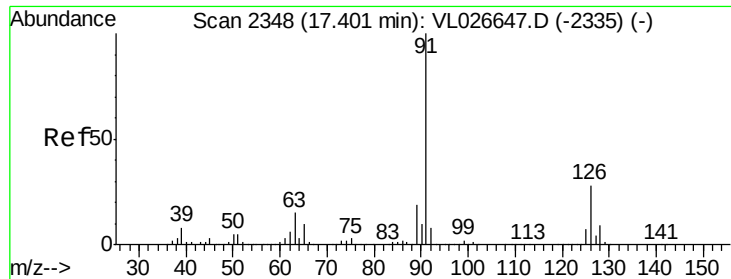


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





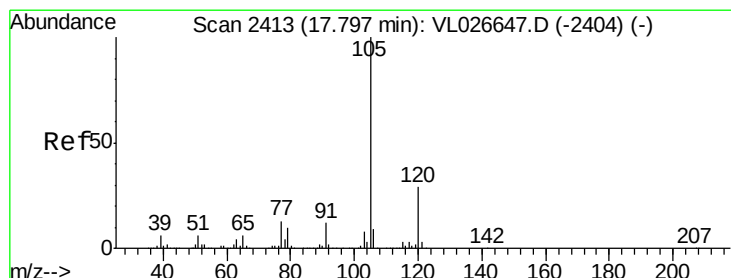
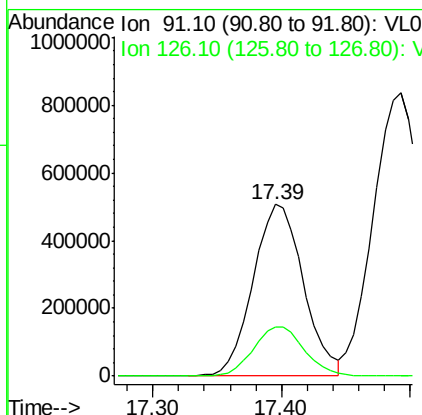
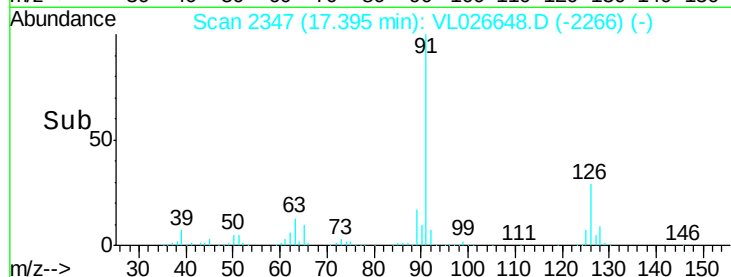
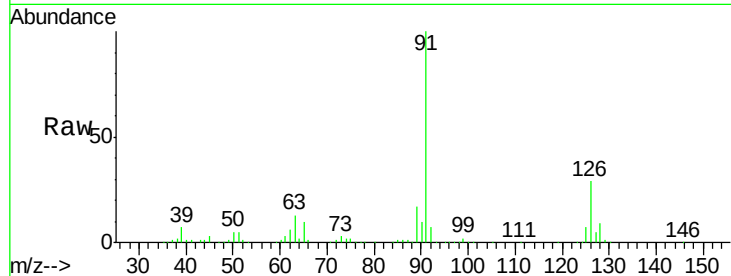
#71
 2-Chlorotoluene
 Concen: 2.19 ppbv
 RT: 17.39 min Scan# 2347
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 1376532
 Ion Ratio Lower Upper
 91 100
 126 29.1 11.4 45.8

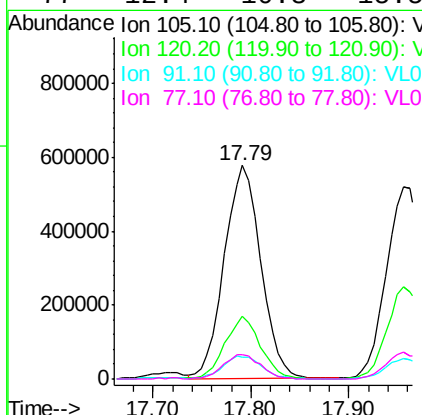
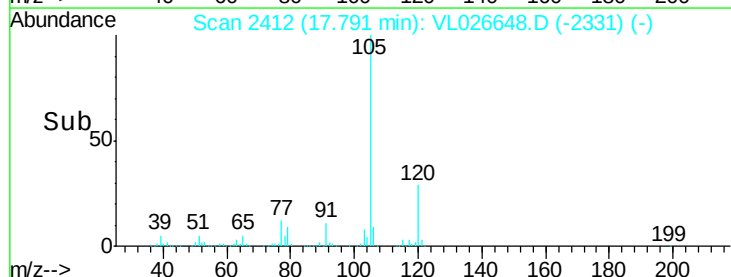
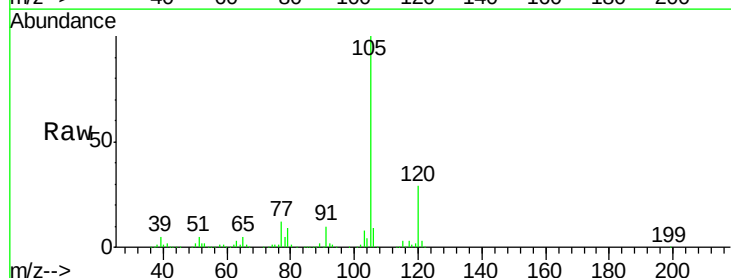
Manual Integrations
 APPROVED

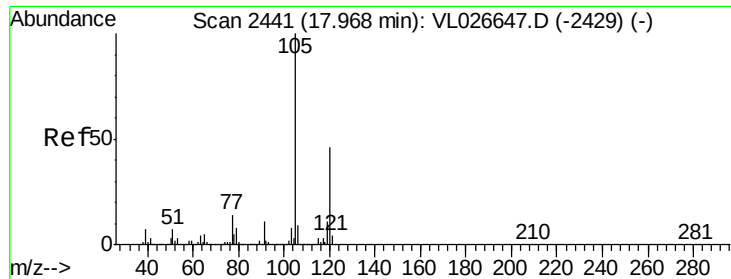
apatel
 1/11/2016 4:59:37 PM



#72
 4-Ethyltoluene
 Concen: 2.21 ppbv
 RT: 17.79 min Scan# 2412
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion: 105 Resp: 1493975
 Ion Ratio Lower Upper
 105 100
 120 29.6 23.8 35.6
 91 12.0 9.5 14.3
 77 12.4 10.3 15.5





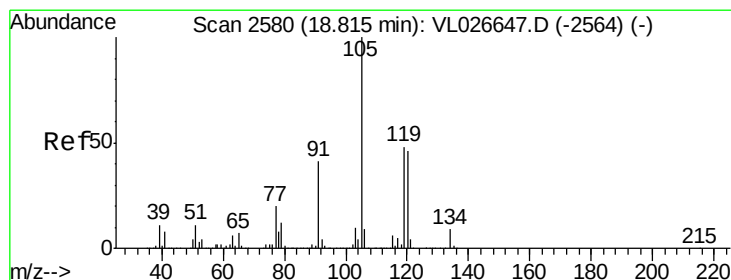
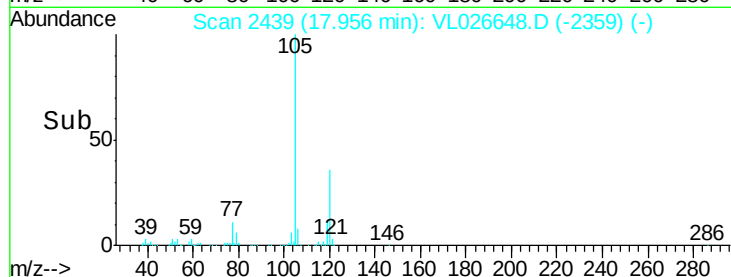
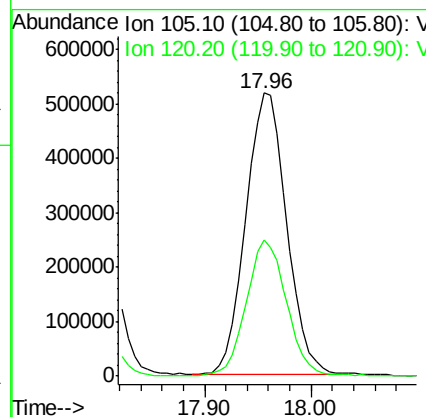
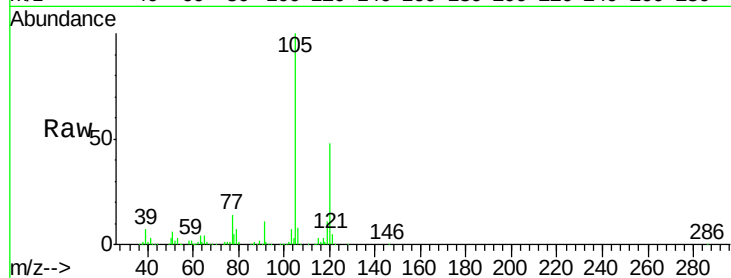
#73
 1,3,5-Trimethylbenzene
 Concen: 2.25 ppbv
 RT: 17.96 min Scan# 2439
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion:105 Resp: 1394626
 Ion Ratio Lower Upper
 105 100
 120 48.2 36.6 54.8

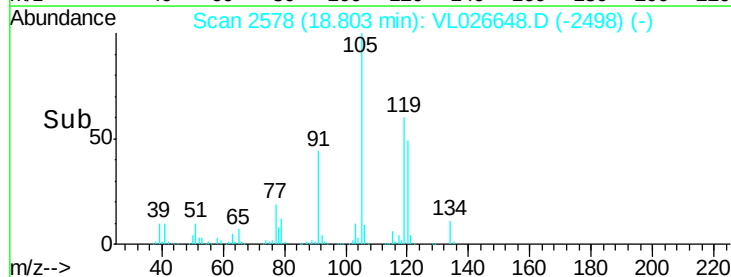
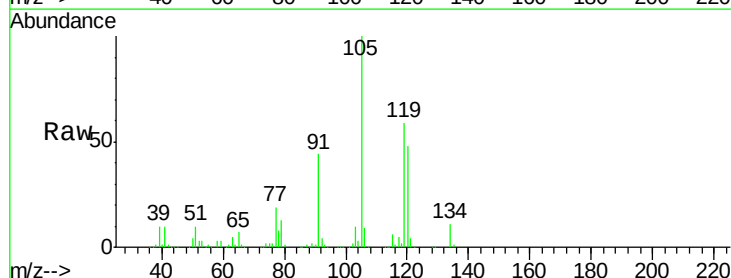
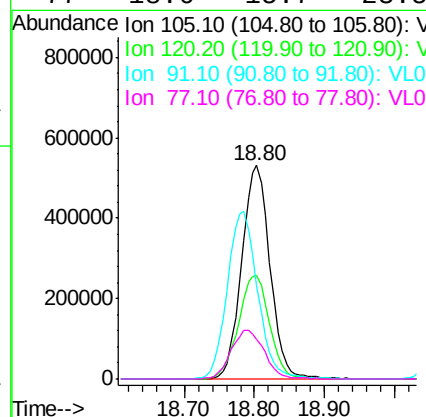
Manual Integrations
 APPROVED

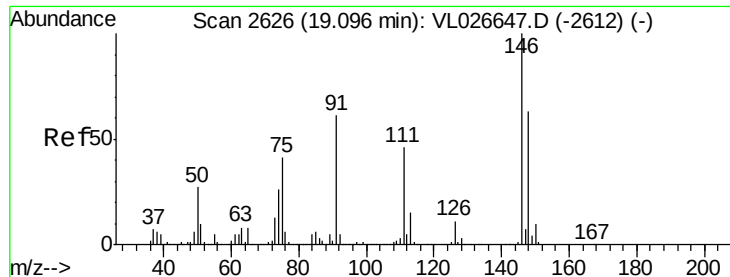
apatel
 1/11/2016 4:59:37 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 2.47 ppbv
 RT: 18.80 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Tgt Ion:105 Resp: 1495917
 Ion Ratio Lower Upper
 105 100
 120 48.4 36.6 55.0
 91 43.8 32.5 48.7
 77 18.6 15.7 23.5





#75

1,3-Dichlorobenzene

Concen: 2.35 ppbv

RT: 19.09 min Scan# 2625

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

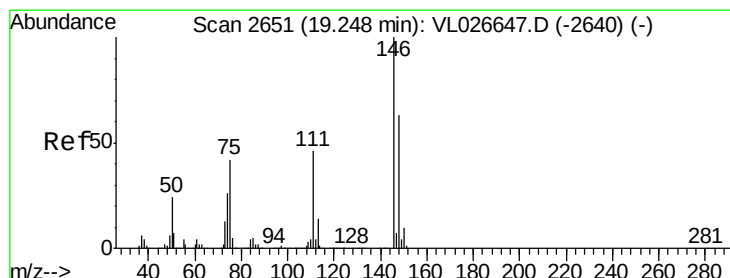
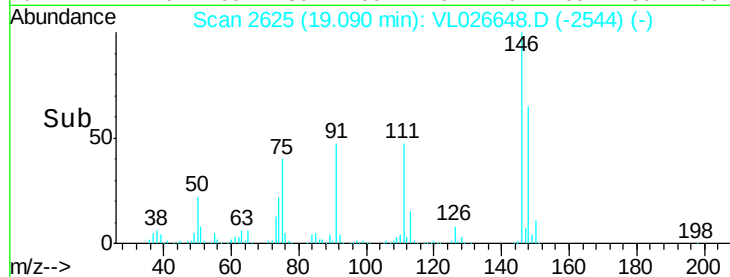
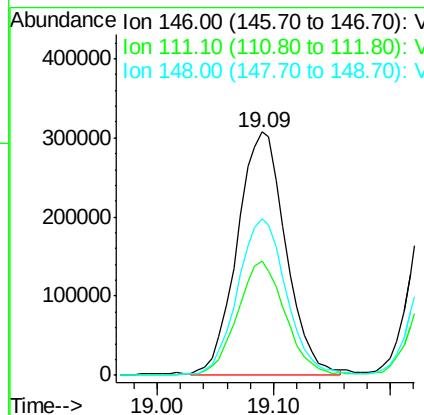
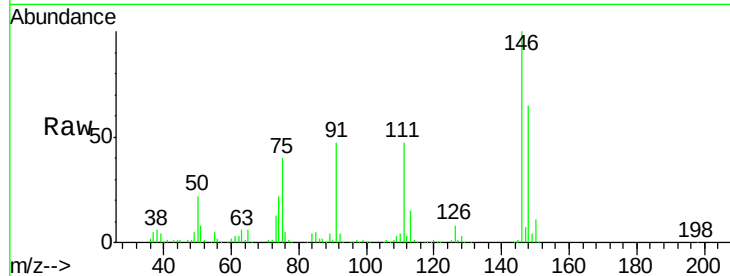
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	887677
Ion Ratio	Lower	Upper	
146	100		
111	47.0	22.9	68.5
148	65.6	31.6	95.0

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#76

1,4-Dichlorobenzene

Concen: 2.28 ppbv

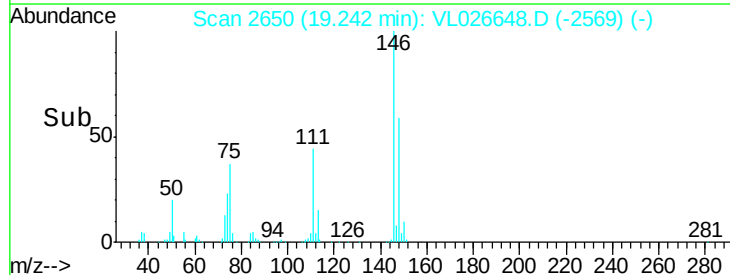
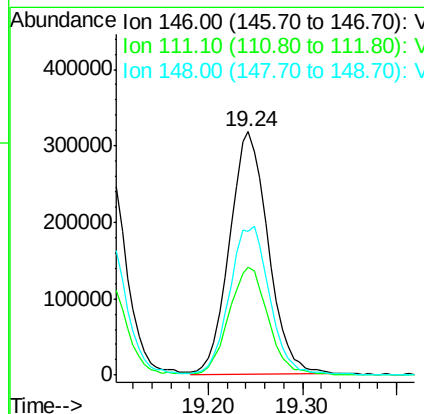
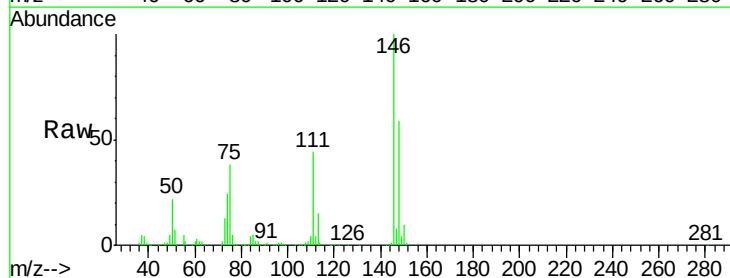
RT: 19.24 min Scan# 2650

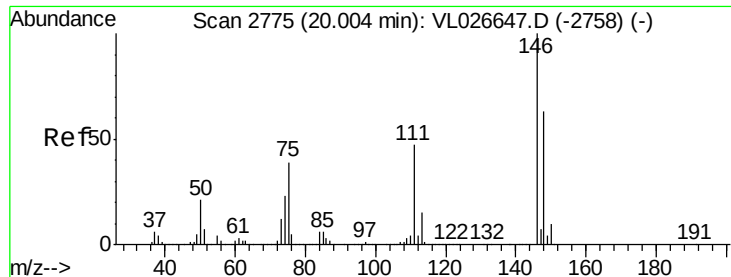
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	146	Resp:	905883
Ion Ratio	Lower	Upper	
146	100		
111	45.4	22.3	66.8
148	64.7	31.9	95.9





#77

1,2-Dichlorobenzene

Concen: 2.29 ppbv

RT: 20.00 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

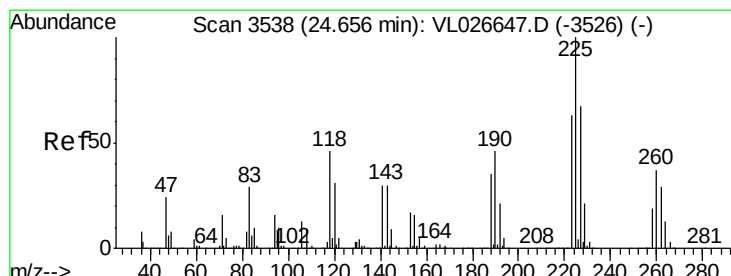
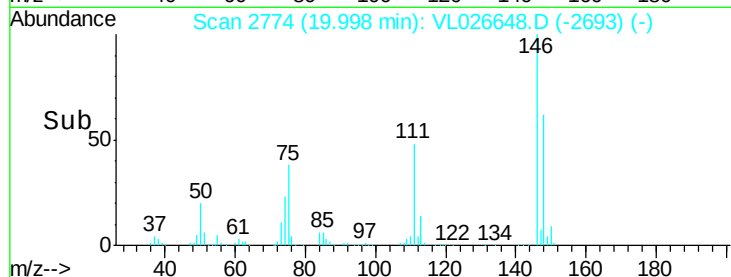
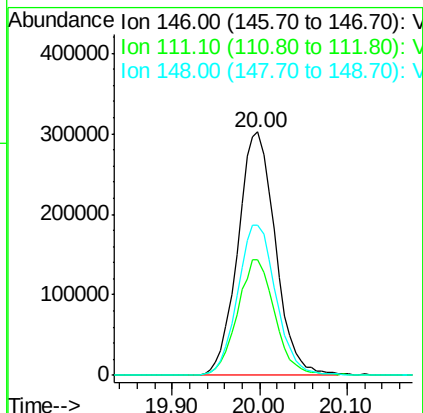
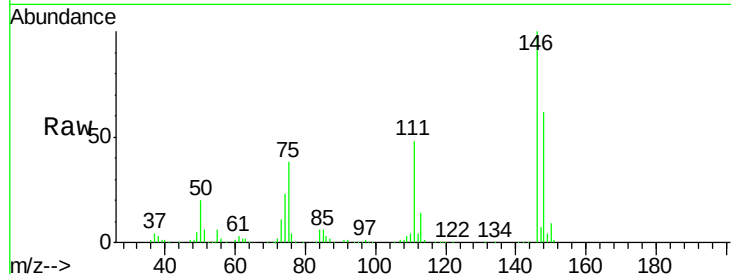
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	903240
Ion Ratio	Lower	Upper	
146	100		
111	47.6	23.7	71.1
148	63.2	31.1	93.5

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#78

Hexachloro-1,3-Butadiene

Concen: 2.43 ppbv

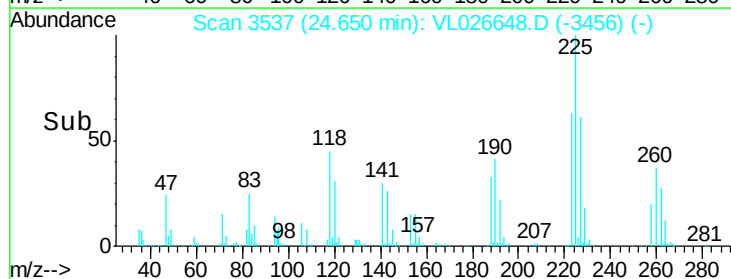
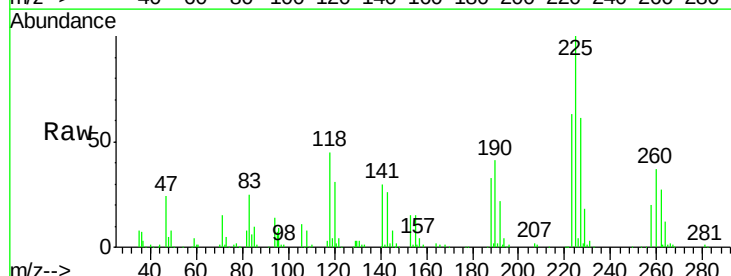
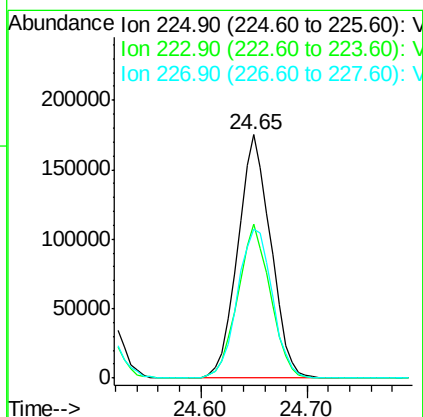
RT: 24.65 min Scan# 3537

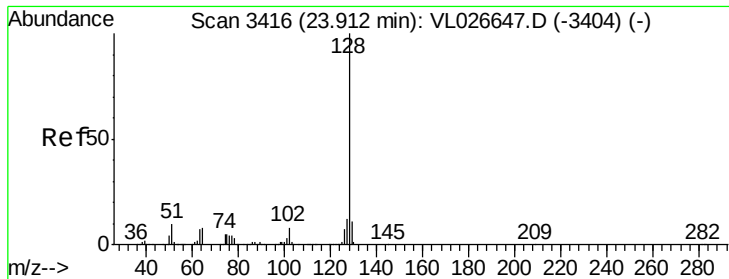
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion:	225	Resp:	381726
Ion Ratio	Lower	Upper	
225	100		
223	62.4	50.0	75.0
227	64.9	51.1	76.7





#79

Naphthalene

Concen: 2.19 ppbv

RT: 23.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Instrument :

MSVOA_L

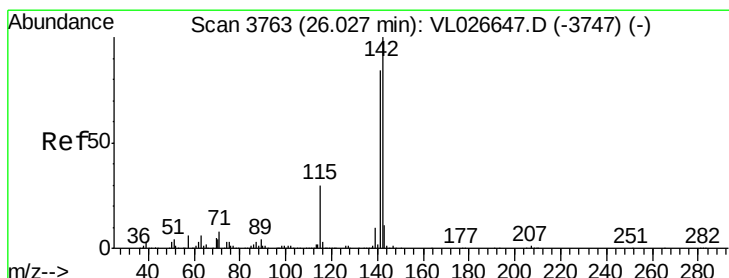
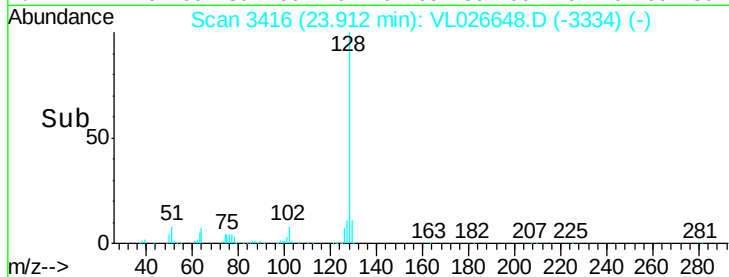
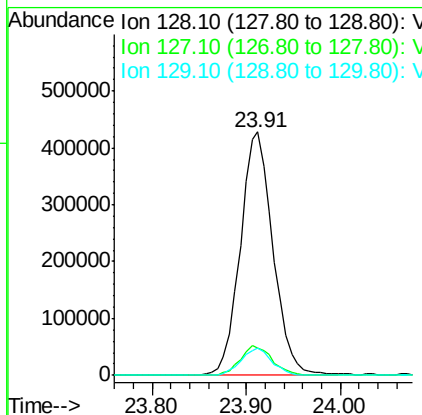
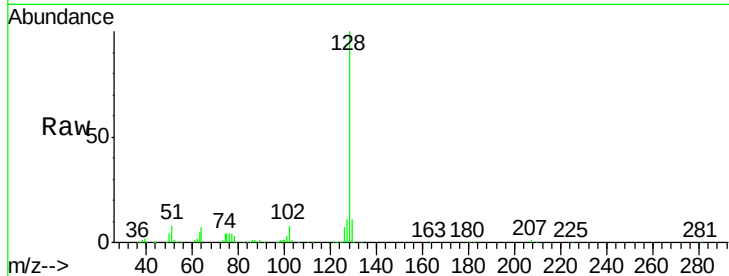
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.0	9.8	14.8
129	11.0	8.9	13.3

Manual Integrations
APPROVED

apatel
1/11/2016 4:59:37 PM



#80

Naphthalene, 2-methyl-

Concen: 1.21 ppbv

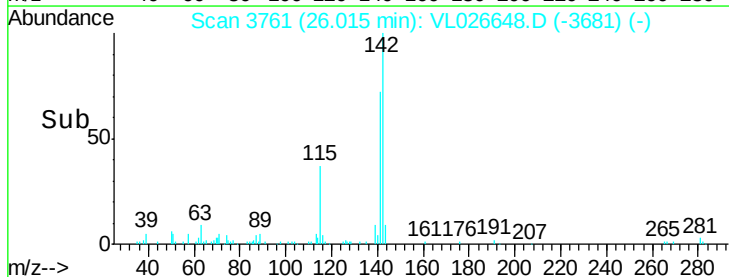
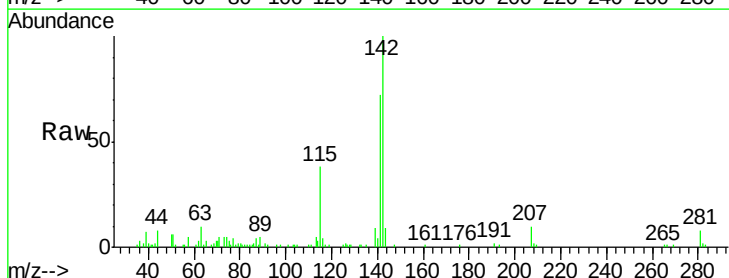
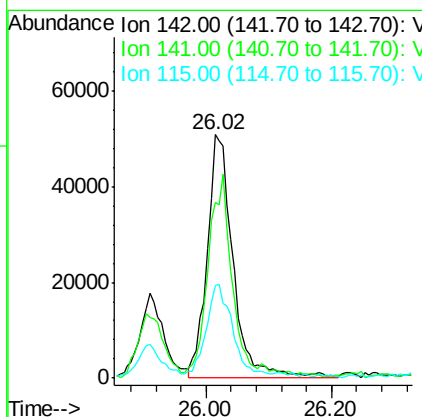
RT: 26.02 min Scan# 3761

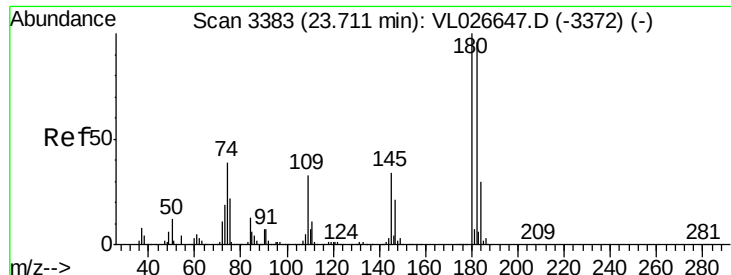
Delta R.T. -0.01 min

Lab File: VL026648.D

Acq: 8 Jan 2016 16:06

Tgt Ion	Ratio	Lower	Upper
142	100		
141	80.8	66.8	100.2
115	39.8	24.7	37.1#





#81
 1,2,4-Trichlorobenzene
 Concen: 2.28 ppbv
 RT: 23.71 min Scan# 3383
 Delta R.T. 0.00 min
 Lab File: VL026648.D
 Acq: 8 Jan 2016 16:06

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	466941		
182	95.8		75.5	113.3
184	30.9		24.1	36.1

Manual Integrations
 APPROVED

apatel
 1/11/2016 4:59:37 PM

