

Data File : VL033116.D

Acq On : 28 Jan 2019 16:59

Operator : SY/AP

Sample : VSTDIC001

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Quant Time: Jan 28 19:36:56 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012819AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 16:32:44 2019

QLast Update : Mon Jan 28 16:32:44 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1100797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2817633	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3227685	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2682202	10.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	298371	1.456	ppbv	99
3) Chlorodifluoromethane	3.01	51	157454	1.264	ppbv	98
4) Chloromethane	3.17	50	89543	1.255	ppbv	96
5) Vinyl Chloride	3.29	62	88230	1.224	ppbv	93
6) Bromomethane	3.51	94	59083	1.207	ppbv	93
7) Chloroethane	3.60	64	33637	1.193	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	237674	1.347	ppbv	100
9) Propene	3.03	41	57893	1.244	ppbv	99
10) Heptane	8.24	43	173105	1.306	ppbv	100
11) Trichlorofluoromethane	4.00	101	254416	1.124	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	174759	1.221	ppbv	99
13) Ethanol	3.65	45	11682	0.629	ppbv #	24
14) Bromoethene	3.78	108	73300	1.159	ppbv	100
15) Acetone	3.90	43	171856	1.128	ppbv	96
16) 1,3-Butadiene	3.36	39	63836	1.111	ppbv	98
17) tert-Butyl alcohol	4.03	59	4622	0.143	ppbv	99
18) 1,1-Dichloroethene	4.35	96	77398	1.174	ppbv	93
19) Isopropyl Alcohol	4.03	45	115425	1.100	ppbv #	96
20) Methylene Chloride	4.40	84	81607	1.285	ppbv	97
21) Allyl Chloride	4.47	41	110696	1.172	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	74996	1.147	ppbv	90
23) Vinyl Acetate	5.15	43	206903	1.067	ppbv #	97
24) 1,1-Dichloroethane	5.09	63	187117	1.137	ppbv	98
25) Ethyl Acetate	5.77	43	283573	1.101	ppbv	99
26) Hexane	5.78	57	140686	1.160	ppbv	96
27) Carbon Disulfide	4.62	76	172118	1.151	ppbv	96
28) Methyl tert-Butyl Ether	5.12	73	207317	1.095	ppbv	99
29) Chloroform	5.84	83	232403	1.125	ppbv	92
30) Cyclohexane	7.25	84	94271	1.043	ppbv	93
31) cis-1,2-Dichloroethene	5.63	61	119677	1.063	ppbv #	86
32) 1,1,1-Trichloroethane	6.61	97	318596	1.519	ppbv	99
34) 2-Butanone	5.33	43	171621	1.048	ppbv	99
35) Carbon Tetrachloride	7.13	117	251001	1.037	ppbv	98
36) Benzene	7.00	78	251882	1.091	ppbv	99
37) 1,2-Dichloroethane	6.41	62	216515	1.344	ppbv	99
38) Trichloroethene	7.96	130	122438	1.290	ppbv	95
39) 1,2-Dichloropropane	7.73	63	106866	1.233	ppbv	93
40) 1,4-Dioxane	7.97	88	19081	0.580	ppbv #	1
41) Tetrahydrofuran	6.16	42	84355	1.012	ppbv	98
42) Bromodichloromethane	7.91	83	277732	1.255	ppbv	99
43) Methyl Methacrylate	8.13	69	52092	0.601	ppbv #	1

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Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Jan 28 19:36:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 28 16:32:44 2019
QLast Update : Mon Jan 28 16:32:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	512199	1.310	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	118769	1.102	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	145380	1.182	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	136924	1.352	ppbv	93
48) Dibromochloromethane	10.45	129	233680	1.306	ppbv	98
49) Bromoform	13.20	173	200949	1.285	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	276240	1.332	ppbv	96
51) 2-Hexanone	10.29	43	176137	1.173	ppbv #	95
52) Tetrachloroethene	11.37	164	104155	1.277	ppbv	95
53) Toluene	9.95	91	302147	1.222	ppbv	98
54) 1,2-Dibromoethane	10.75	107	188891	1.294	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	94573	0.567	ppbv #	16
57) Chlorobenzene	12.29	112	295005	1.095	ppbv #	96
58) Ethyl Benzene	12.86	91	405778	0.996	ppbv	98
59) m/p-Xylene	13.15	91	253448	0.672	ppbv #	100
60) o-Xylene	13.85	91	423351	1.147	ppbv	98
61) Styrene	13.69	104	244054	1.036	ppbv	98
62) Isopropylbenzene	14.82	105	600617	1.144	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	332513	1.213	ppbv	99
64) n-propylbenzene	15.72	120	140195	1.051	ppbv	91
65) tert-Butylbenzene	16.91	119	515593	1.108	ppbv	94
66) Benzyl Chloride	17.15	91	143147	0.540	ppbv #	67
67) sec-Butylbenzene	17.45	105	731974	1.099	ppbv	99
69) p-Isopropyltoluene	17.81	119	591252	1.094	ppbv	98
70) n-Butylbenzene	18.72	91	578858	1.066	ppbv	97
71) 2-Chlorotoluene	15.61	91	362192	0.972	ppbv	100
72) 4-Ethyltoluene	16.00	105	406875	1.003	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	428011	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	476306	1.075	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	115675	0.443	ppbv #	1
76) 1,4-Dichlorobenzene	17.31	146	254685	1.072	ppbv	98
77) 1,2-Dichlorobenzene	17.99	146	258419	1.100	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	154132	0.854	ppbv	99
79) Naphthalene	22.41	128	123100	0.330	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	26288	0.232	ppbv	94
81) 1,2,4-Trichlorobenzene	22.14	180	73603	0.408	ppbv #	31

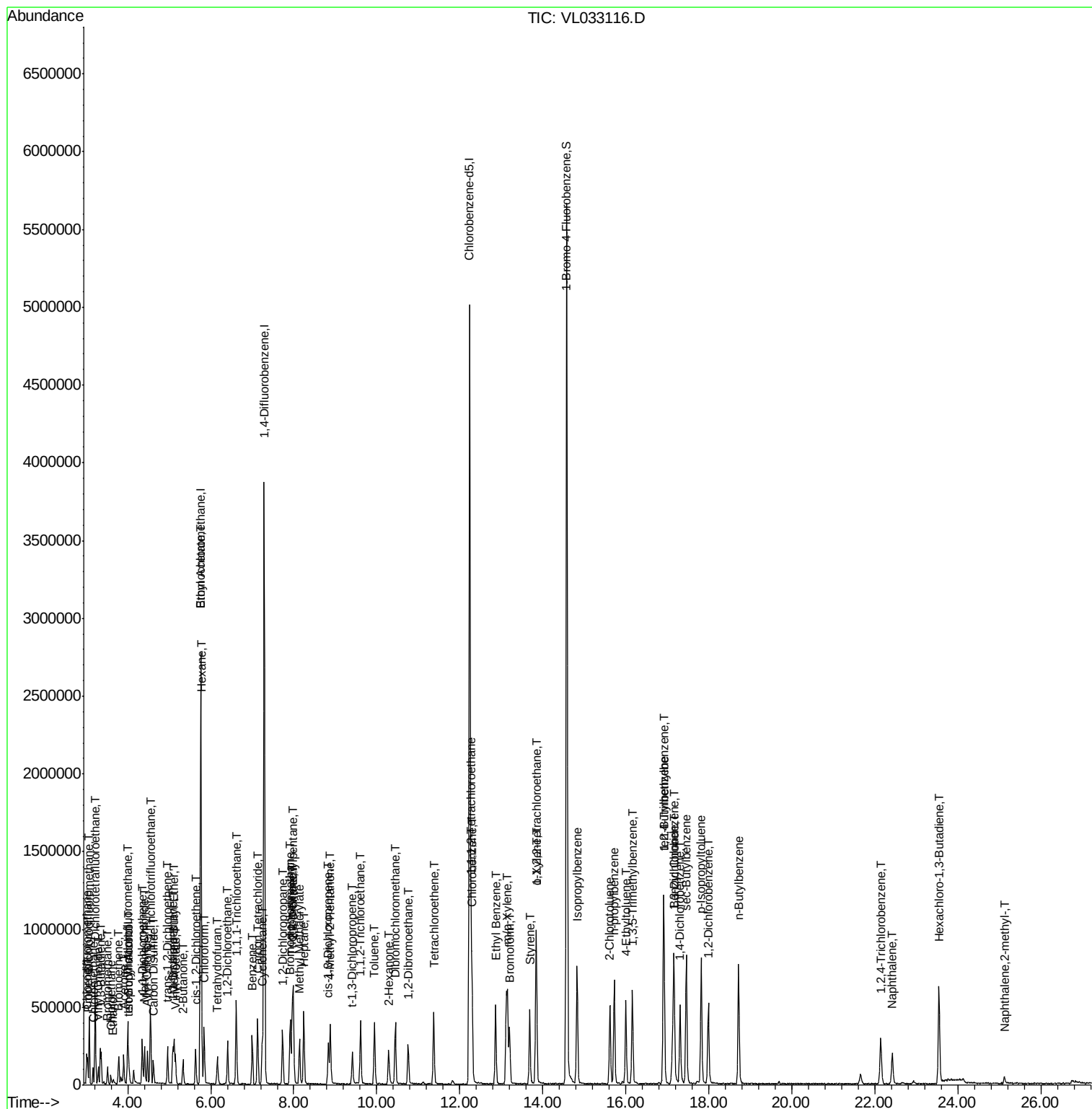
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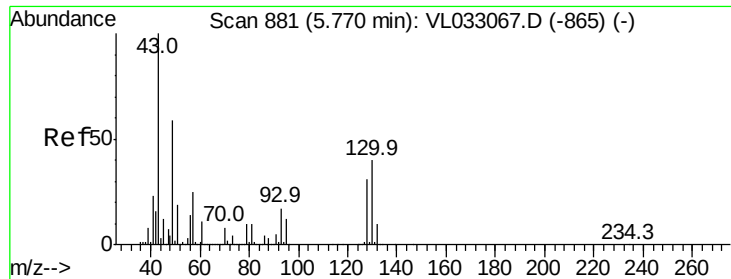
Data File : VL033116.D

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Acq On       : 28 Jan 2019 16:59
Operator     : SY/AP
Sample       : VSTDICC001
Misc        : 400ml/MSVOA_L
ALS Vial     : 1      Sample Multipl
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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Quant Time: Jan 28 19:36:56 2019
Quant Method : Z:\VQASRV\HPCHEM1\MSVOA_L\METHODS\VL012819AIR.M
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

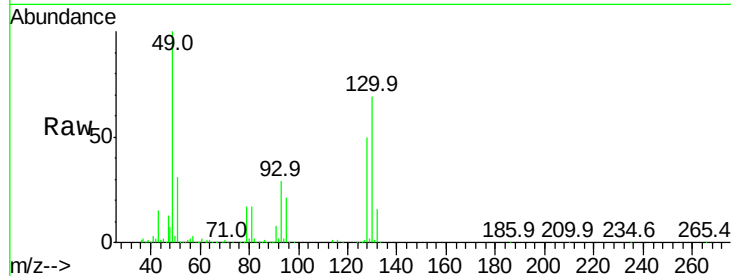
Tgt Ion: 49 Resp: 1100797

Ion Ratio Lower Upper

49 100

128 52.9 25.9 77.7

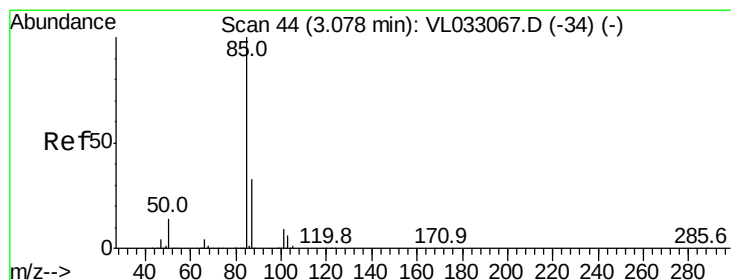
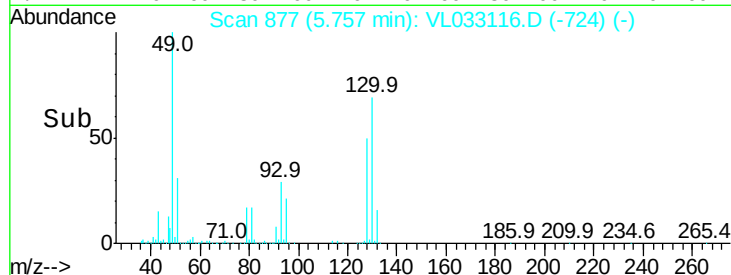
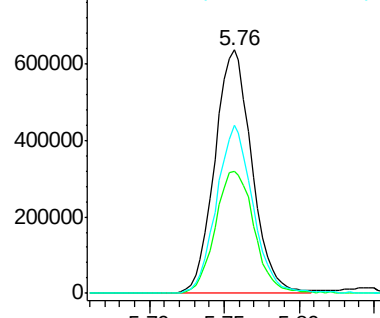
130 68.3 32.9 98.7



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: 1.456 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033116.D

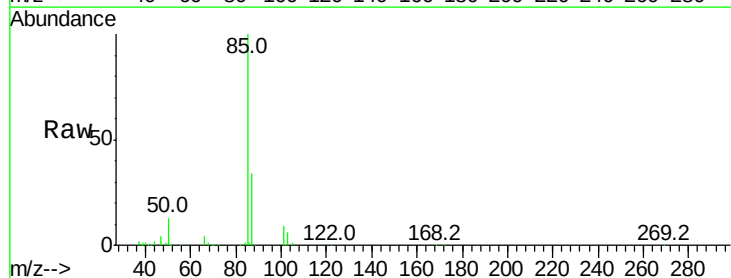
Acq: 28 Jan 2019 16:59

Tgt Ion: 85 Resp: 298371

Ion Ratio Lower Upper

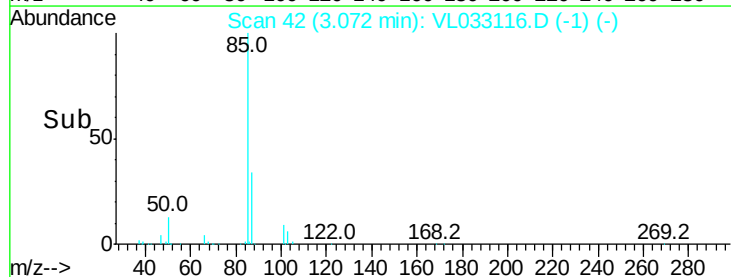
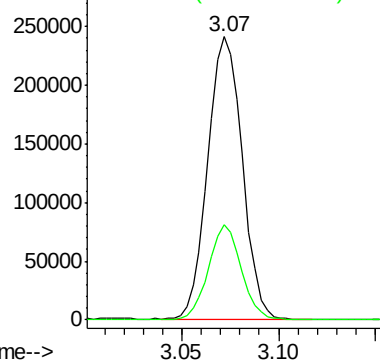
85 100

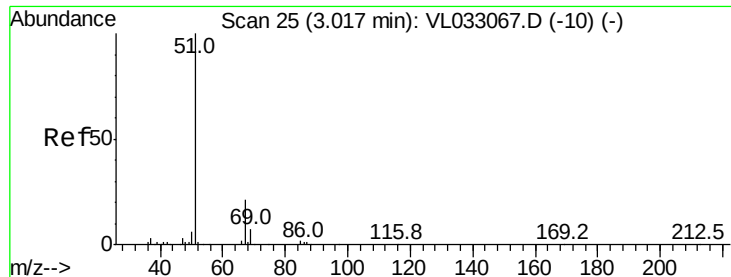
87 33.7 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.264 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

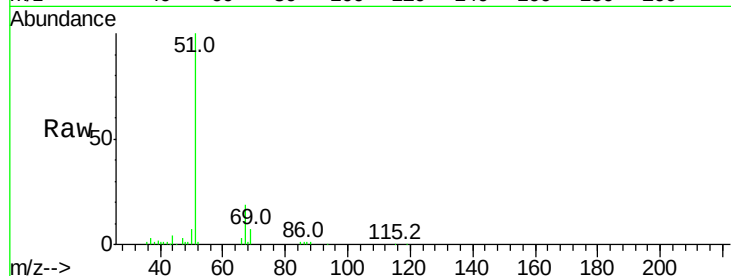
VSTDIC001

Tgt Ion: 51 Resp: 157454

Ion Ratio Lower Upper

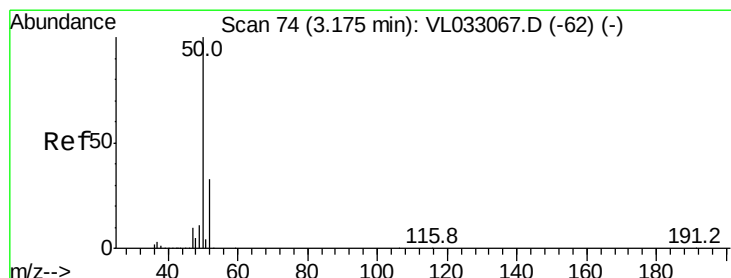
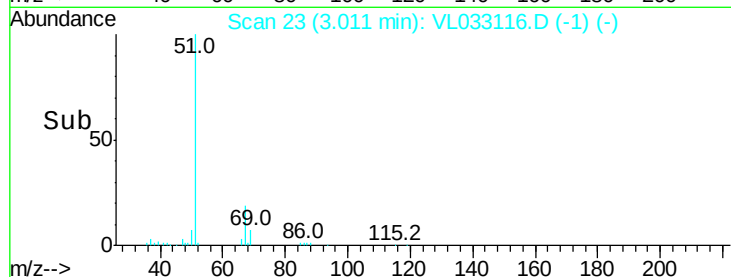
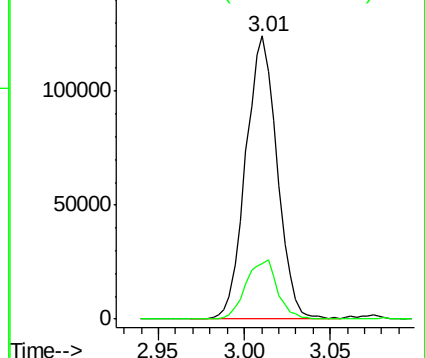
51 100

67 21.0 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.255 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033116.D

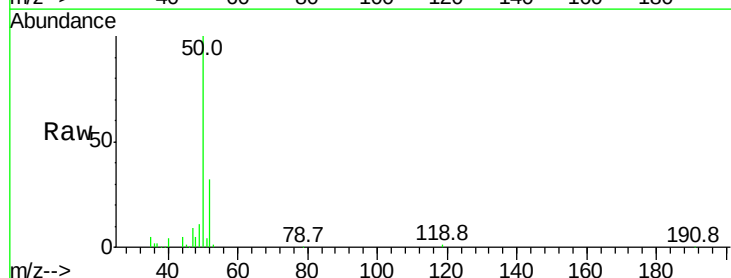
Acq: 28 Jan 2019 16:59

Tgt Ion: 50 Resp: 89543

Ion Ratio Lower Upper

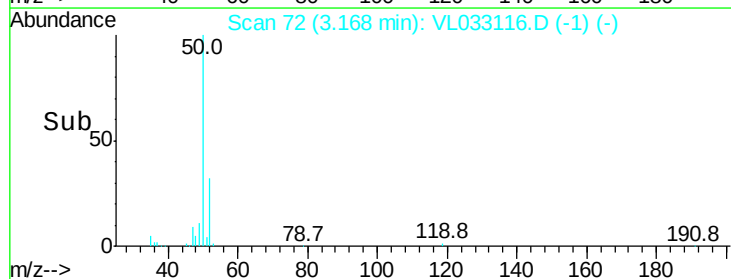
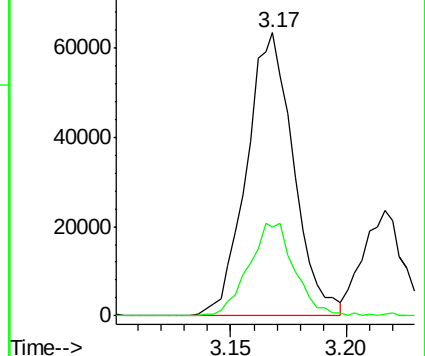
50 100

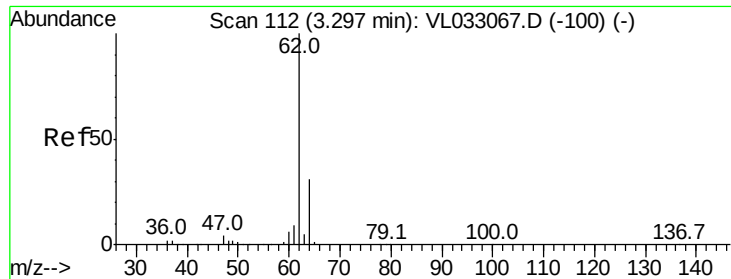
52 31.6 27.0 40.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.224 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

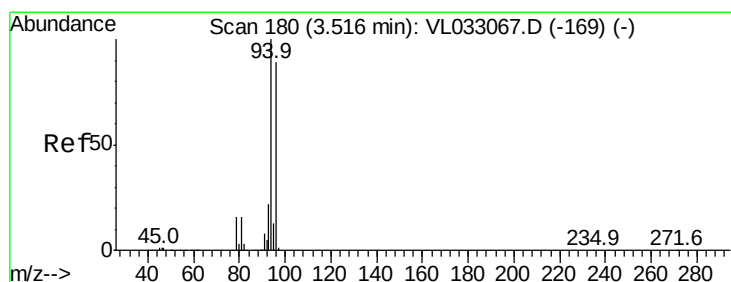
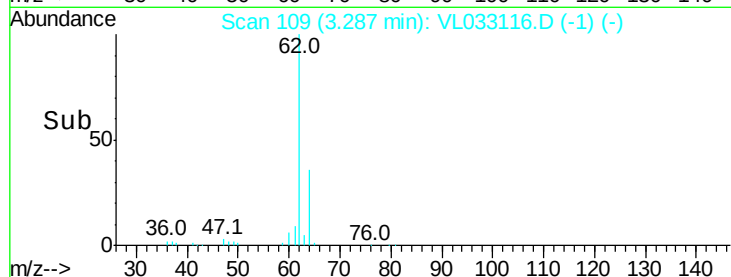
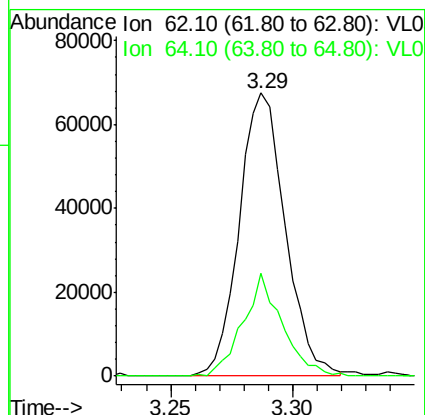
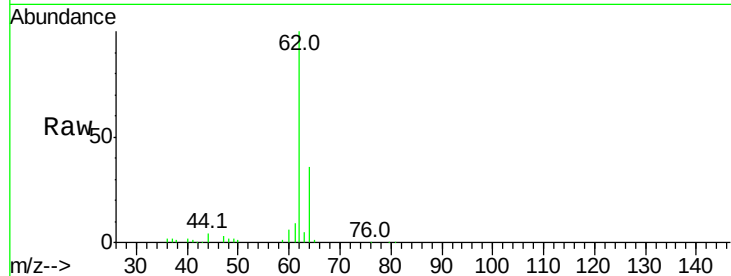
VSTDIC001

Tgt Ion: 62 Resp: 88230

Ion Ratio Lower Upper

62 100

64 36.2 25.7 38.5



#6

Bromomethane

Concen: 1.207 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033116.D

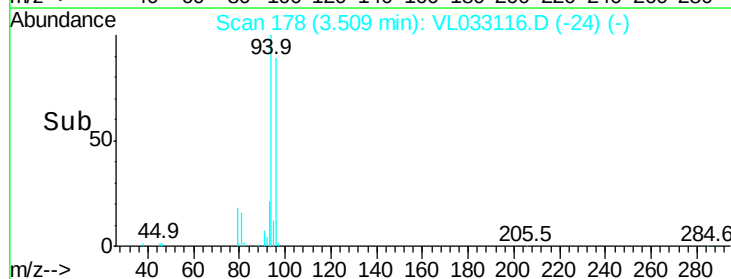
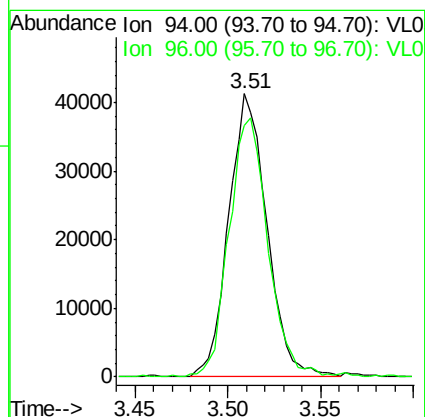
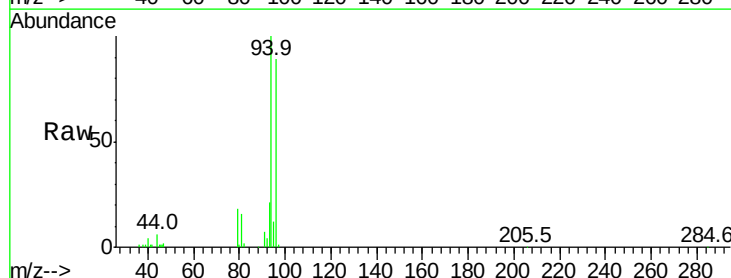
Acq: 28 Jan 2019 16:59

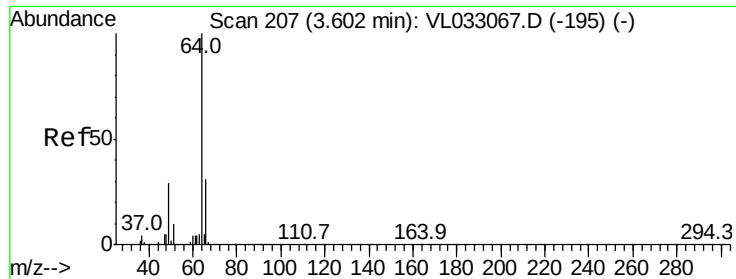
Tgt Ion: 94 Resp: 59083

Ion Ratio Lower Upper

94 100

96 88.0 75.4 113.2





#7

Chloroethane

Concen: 1.193 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

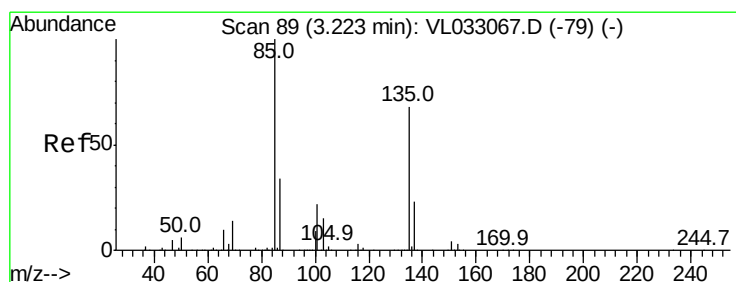
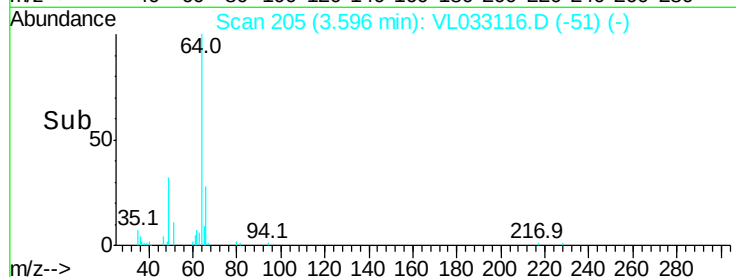
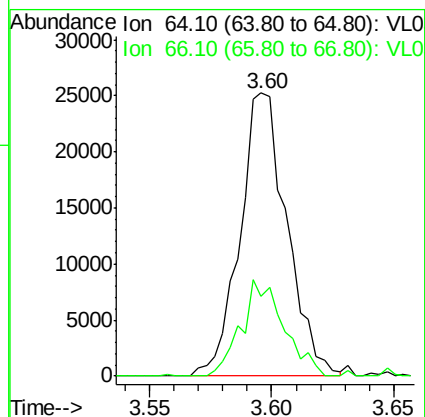
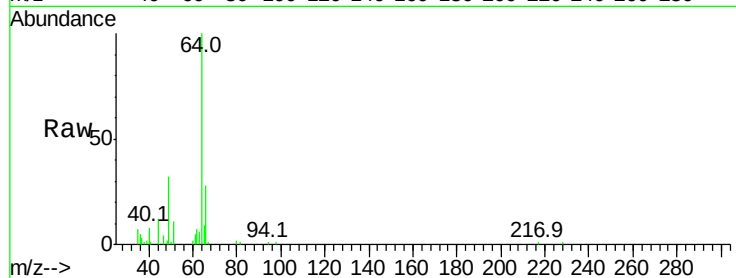
VSTDIC001

Tgt Ion: 64 Resp: 33637

Ion Ratio Lower Upper

64 100

66 28.4 24.0 36.0



#8

Dichlorotetrafluoroethane

Concen: 1.347 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033116.D

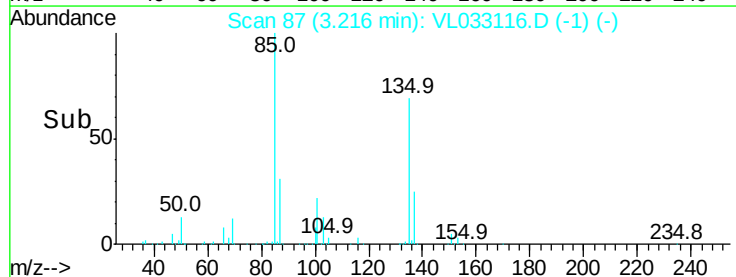
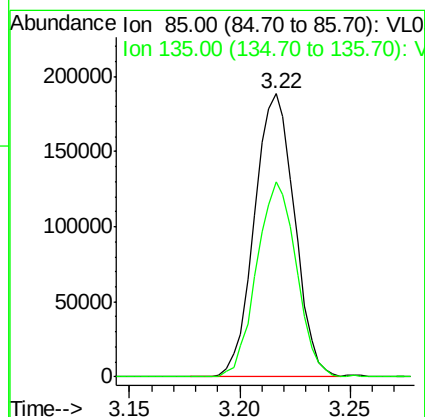
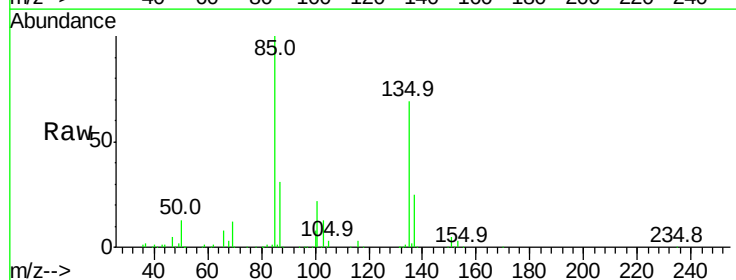
Acq: 28 Jan 2019 16:59

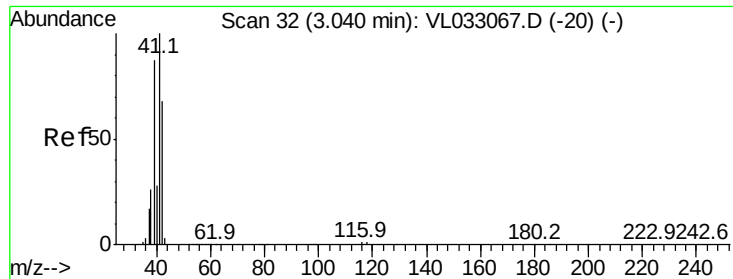
Tgt Ion: 85 Resp: 237674

Ion Ratio Lower Upper

85 100

135 68.5 54.8 82.2





#9

Propene

Concen: 1.244 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

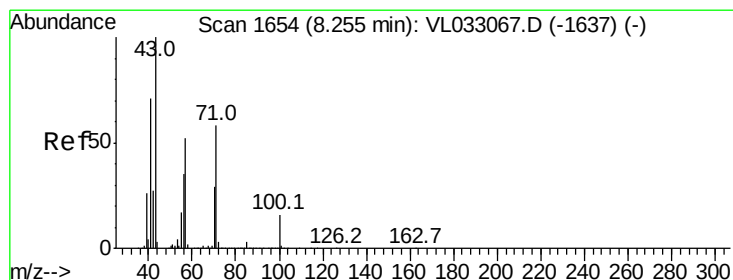
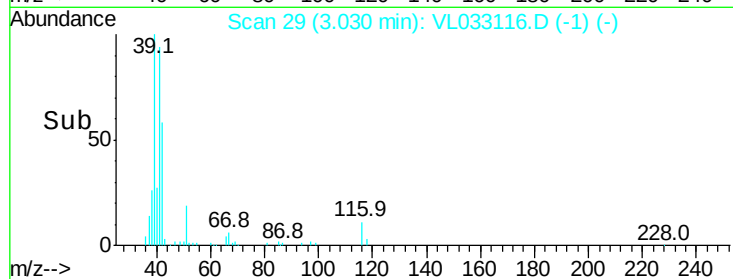
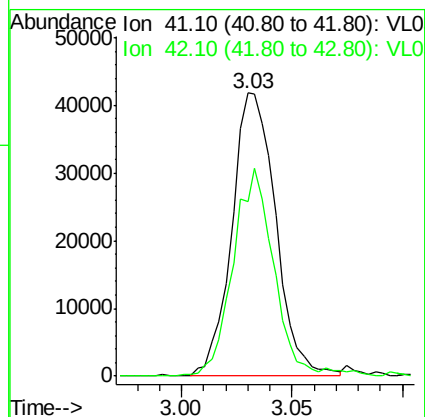
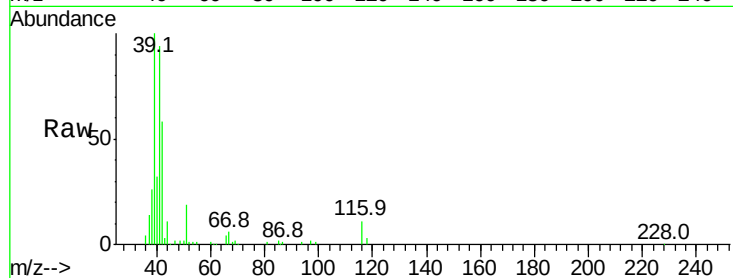
VSTDIC001

Tgt Ion: 41 Resp: 57893

Ion Ratio Lower Upper

41 100

42 68.7 54.6 82.0



#10

Heptane

Concen: 1.306 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033116.D

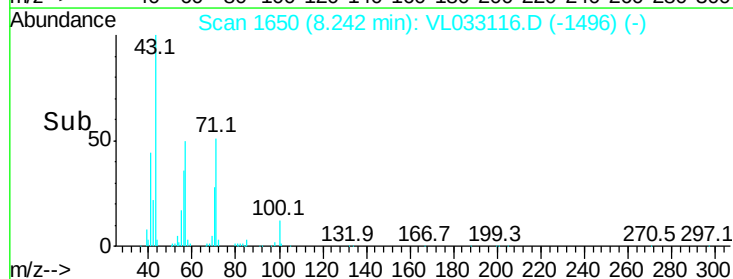
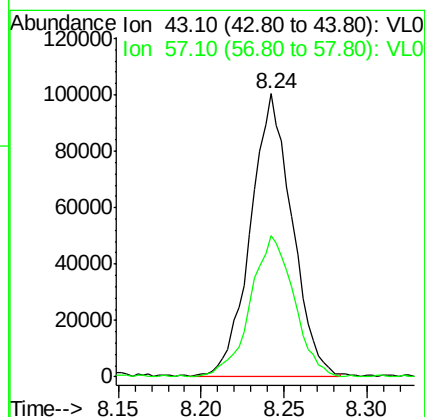
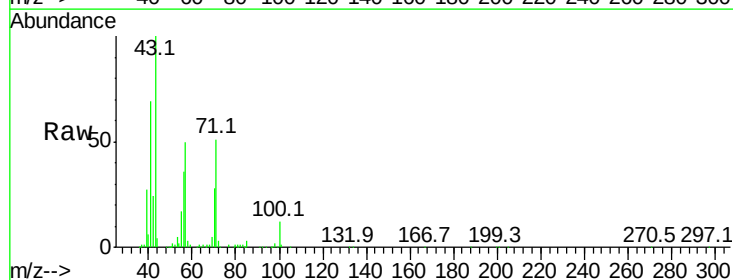
Acq: 28 Jan 2019 16:59

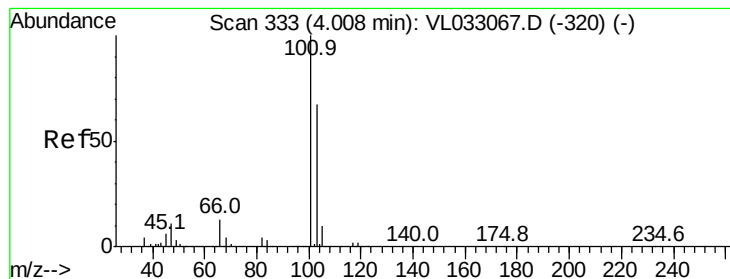
Tgt Ion: 43 Resp: 173105

Ion Ratio Lower Upper

43 100

57 52.7 42.2 63.2





#11

Trichlorofluoromethane

Concen: 1.124 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

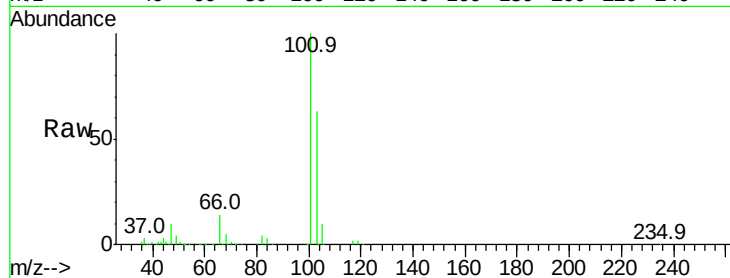
VSTDIC001

Tgt Ion:101 Resp: 254416

Ion Ratio Lower Upper

101 100

103 63.3 49.4 74.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.00

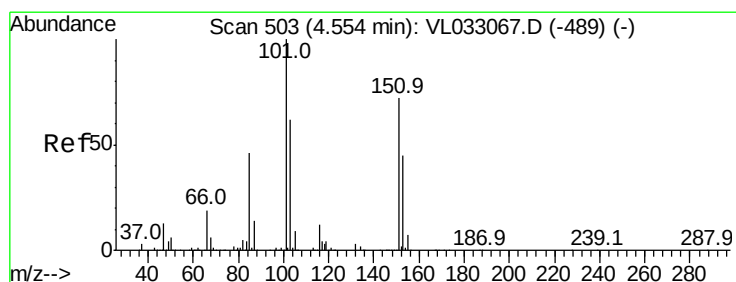
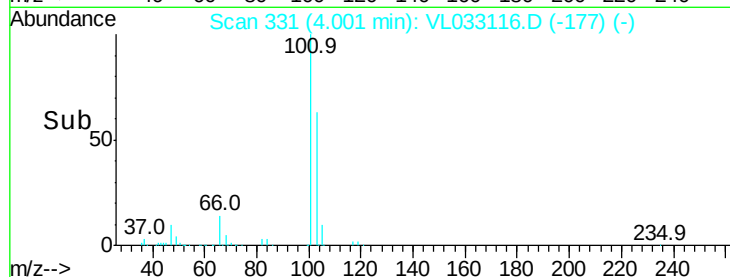
150000

100000

50000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.221 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL033116.D

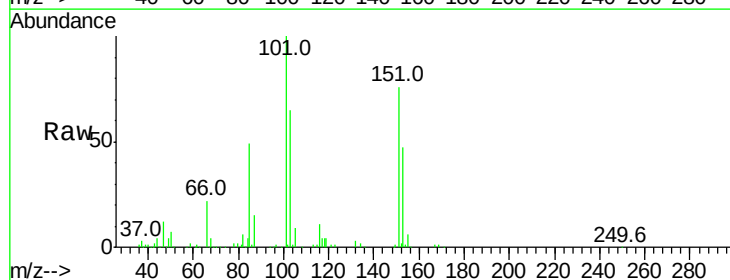
Acq: 28 Jan 2019 16:59

Tgt Ion:101 Resp: 174759

Ion Ratio Lower Upper

101 100

151 71.4 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.55

120000

100000

80000

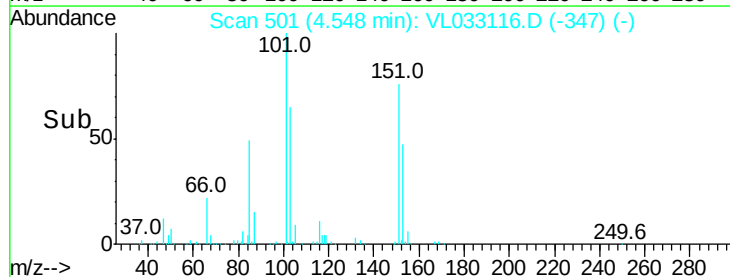
60000

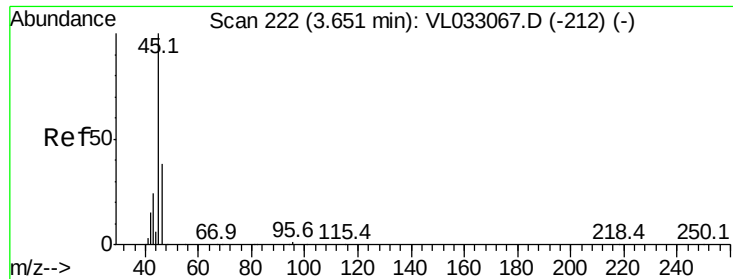
40000

20000

0

Time-->





#13

Ethanol

Concen: 0.629 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

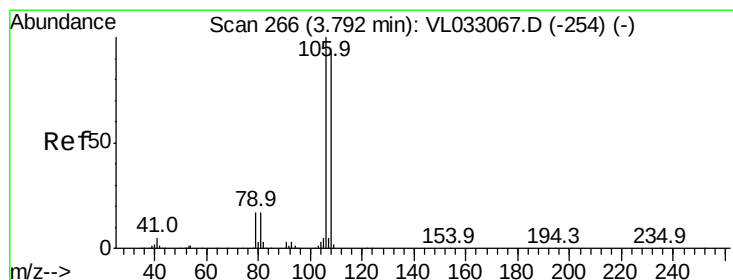
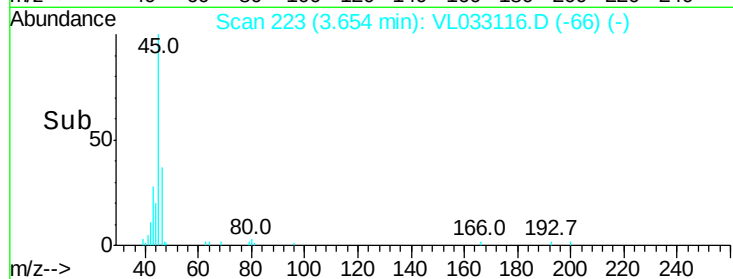
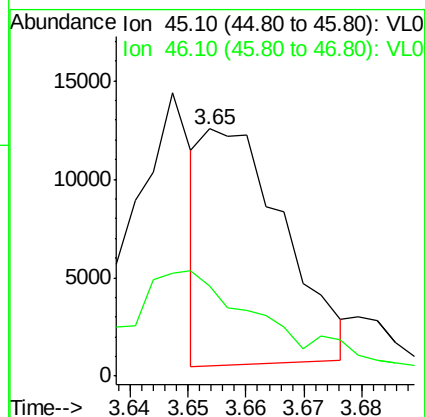
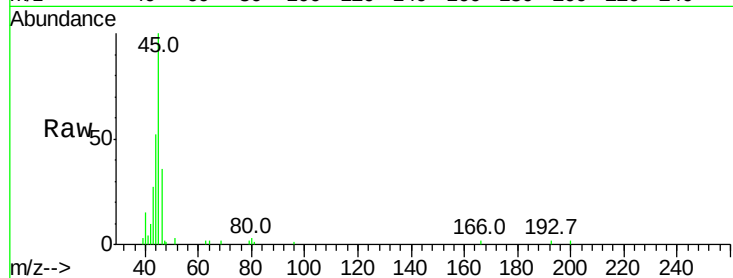
VSTDIC001

Tgt Ion: 45 Resp: 11682

Ion Ratio Lower Upper

45 100

46 83.3 15.0 60.2#



#14

Bromoethene

Concen: 1.159 ppbv

RT: 3.78 min Scan# 263

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

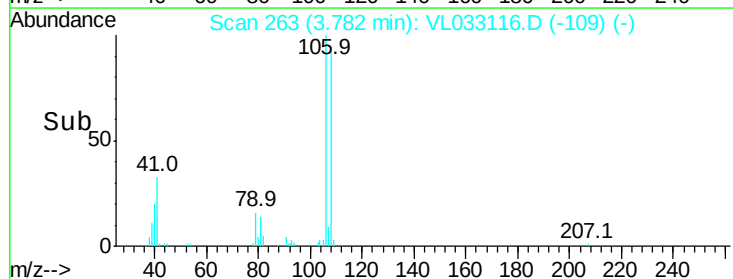
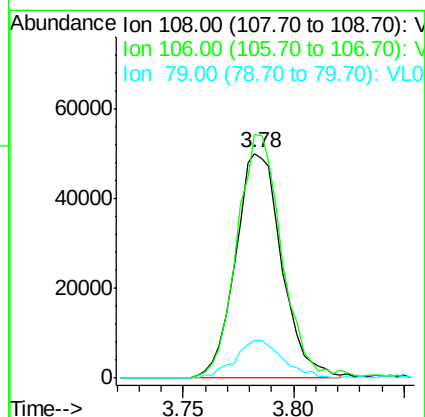
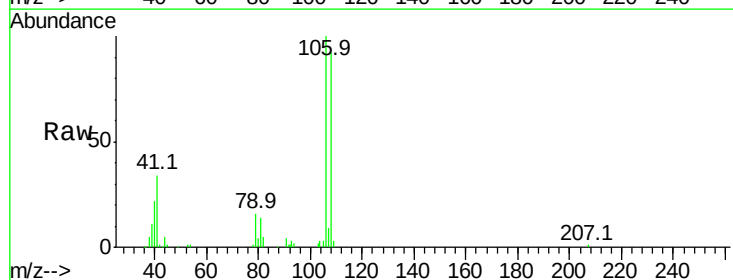
Tgt Ion: 108 Resp: 73300

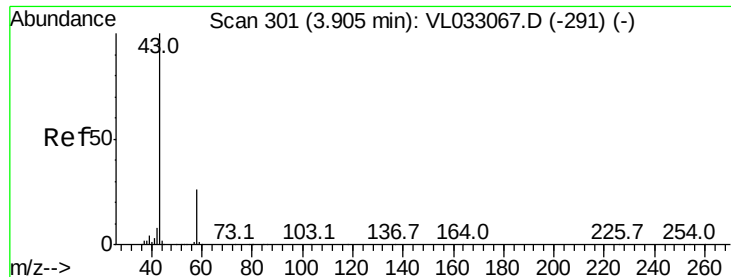
Ion Ratio Lower Upper

108 100

106 106.7 85.5 128.3

79 17.6 13.8 20.6





#15

Acetone

Concen: 1.128 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

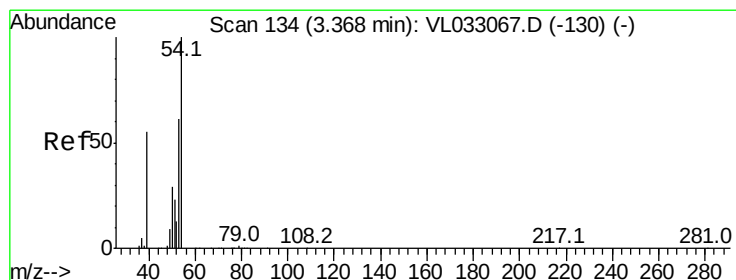
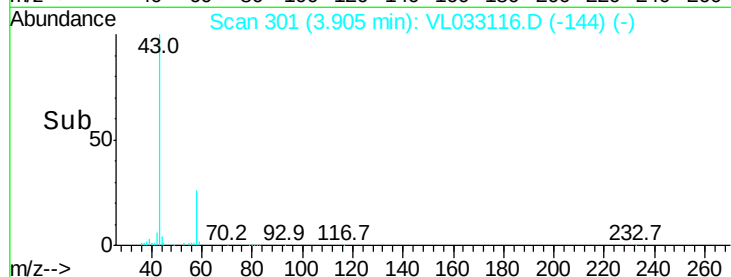
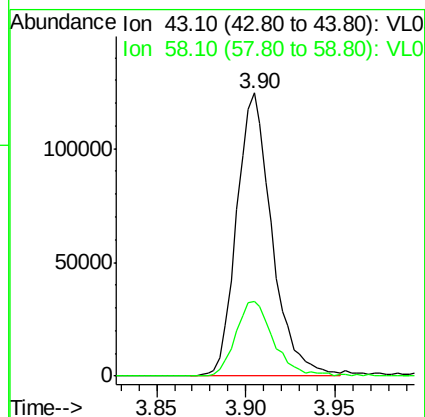
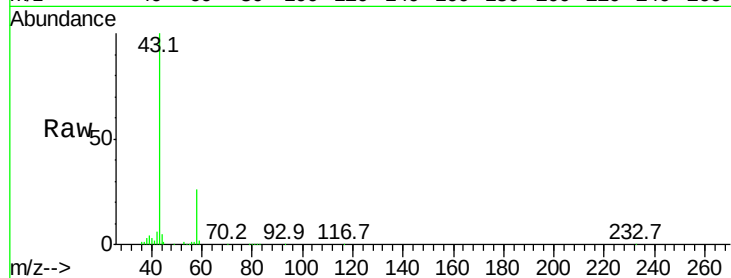
VSTDIC001

Tgt Ion: 43 Resp: 171856

Ion Ratio Lower Upper

43 100

58 28.6 21.1 31.7



#16

1,3-Butadiene

Concen: 1.111 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.00 min

Lab File: VL033116.D

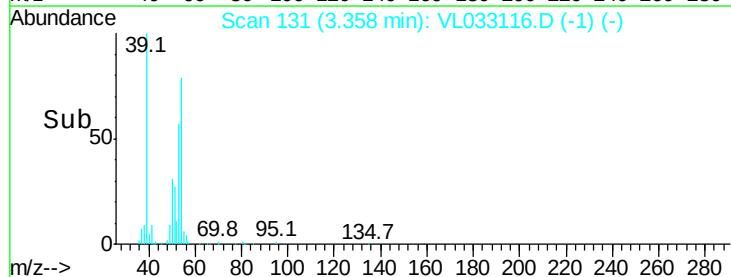
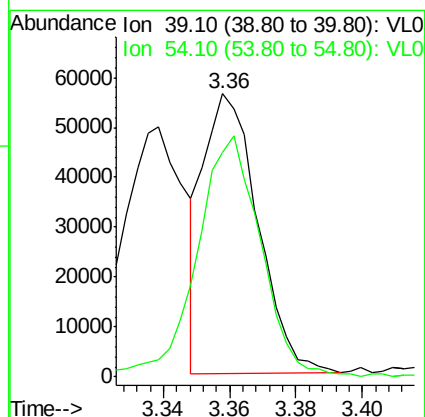
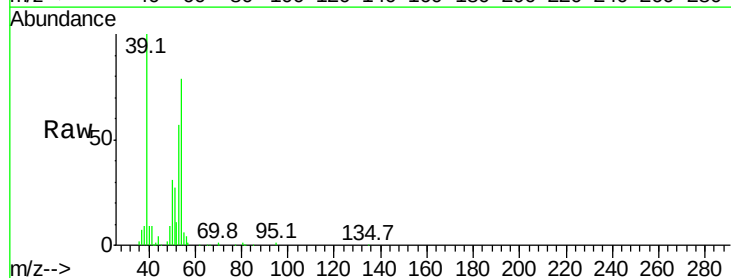
Acq: 28 Jan 2019 16:59

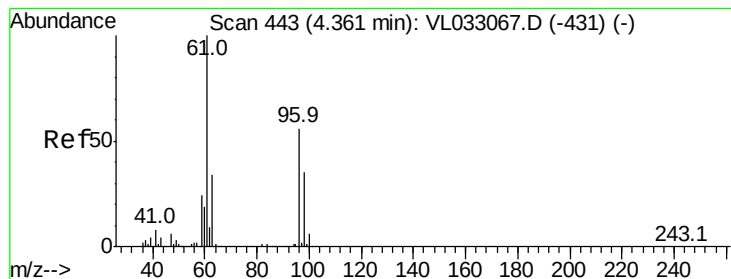
Tgt Ion: 39 Resp: 63836

Ion Ratio Lower Upper

39 100

54 102.2 80.0 120.0





#17

tert-Butyl alcohol

Concen: 0.143 ppbv

RT: 4.03 min Scan# 340

Delta R.T. -0.32 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

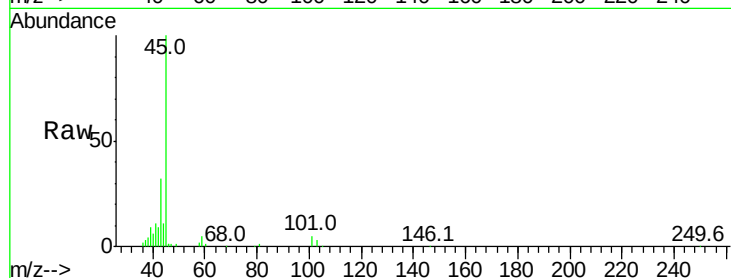
VSTDIC001

Tgt Ion: 59 Resp: 4622

Ion Ratio Lower Upper

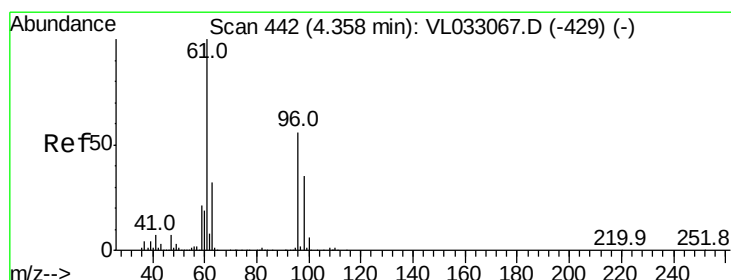
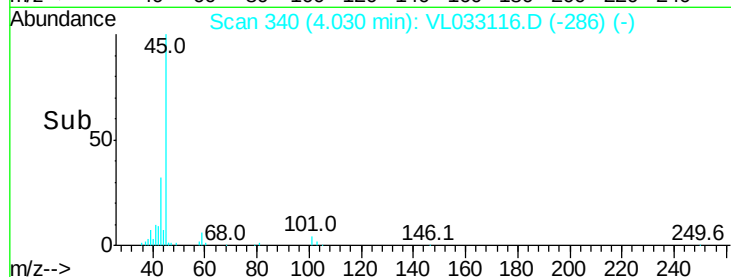
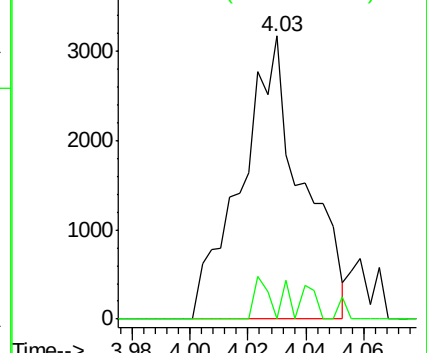
59 100

57 9.0 7.4 11.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 1.174 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

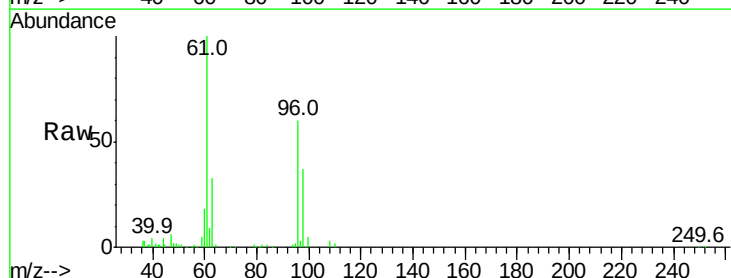
Tgt Ion: 96 Resp: 77398

Ion Ratio Lower Upper

96 100

61 166.1 142.6 213.8

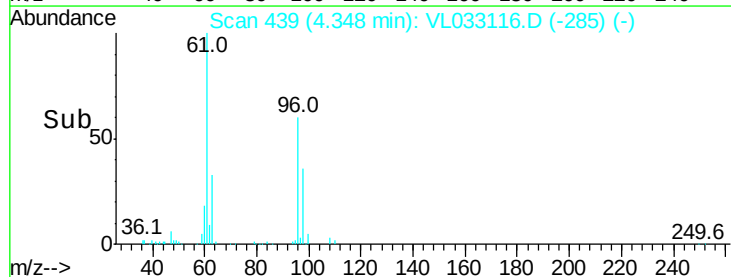
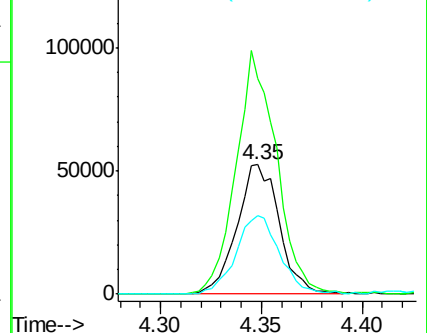
98 61.0 51.4 77.0

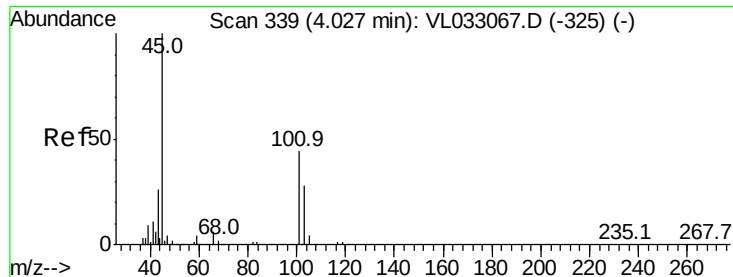


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.100 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

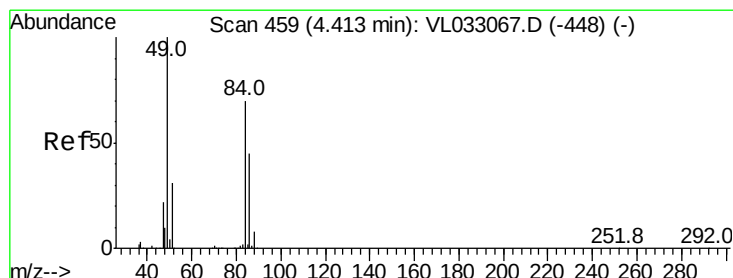
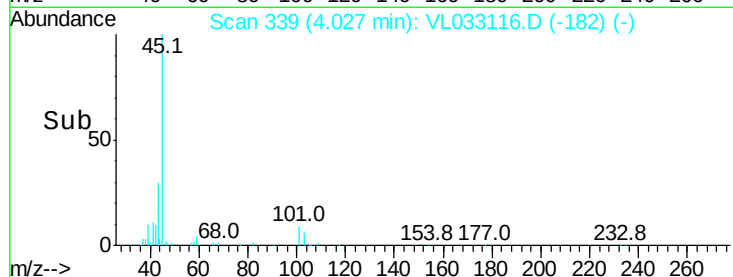
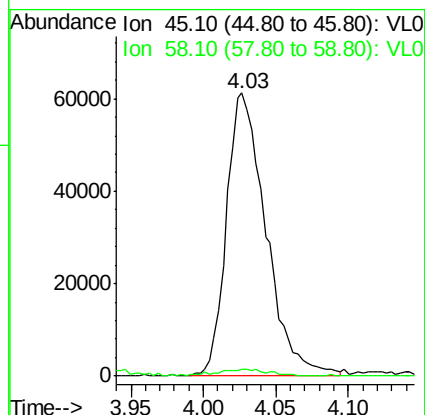
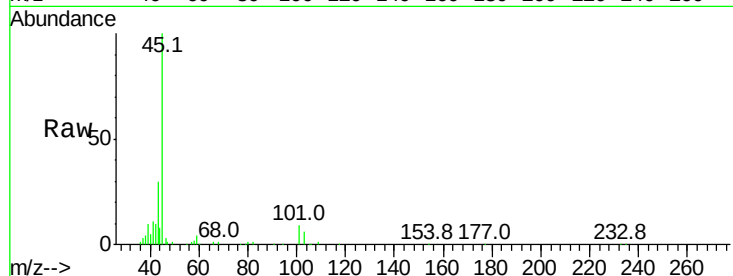
VSTDIC001

Tgt Ion: 45 Resp: 115425

Ion Ratio Lower Upper

45 100

58 3.4 1.4 2.2#



#20

Methylene Chloride

Concen: 1.285 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Tgt Ion: 84 Resp: 81607

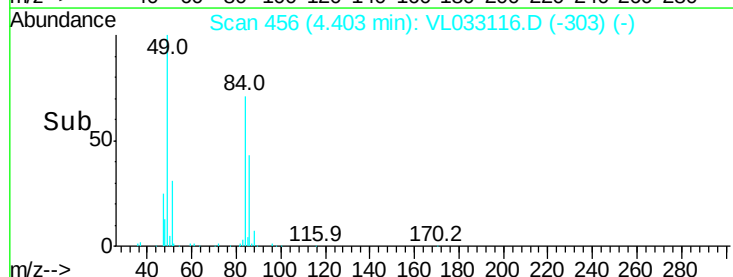
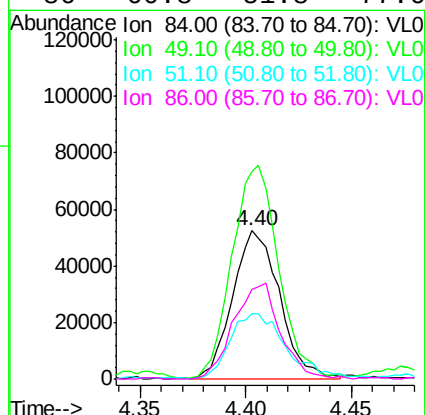
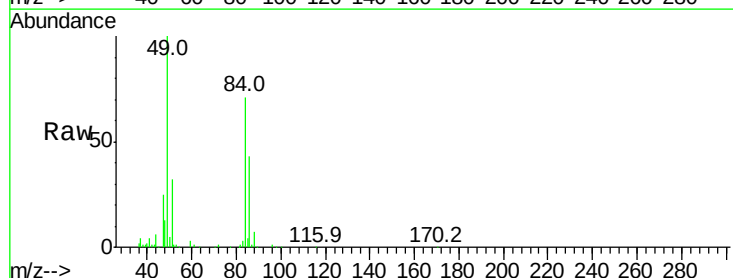
Ion Ratio Lower Upper

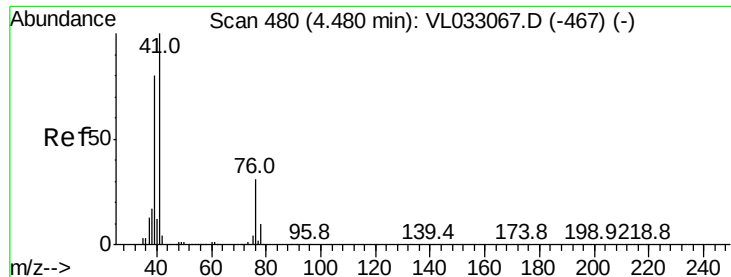
84 100

49 139.0 113.8 170.6

51 44.2 34.5 51.7

86 60.8 51.8 77.6

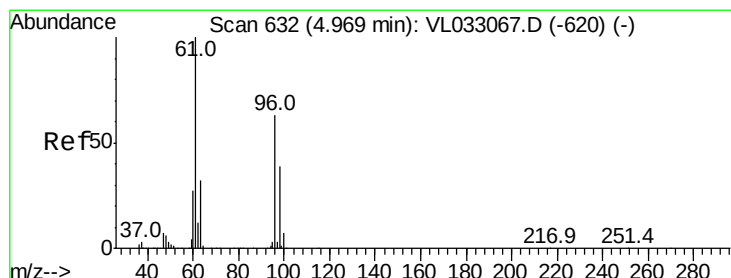
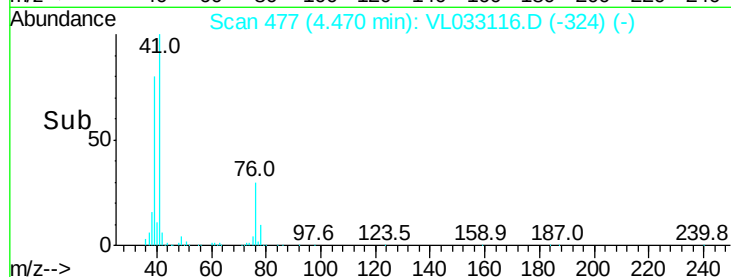
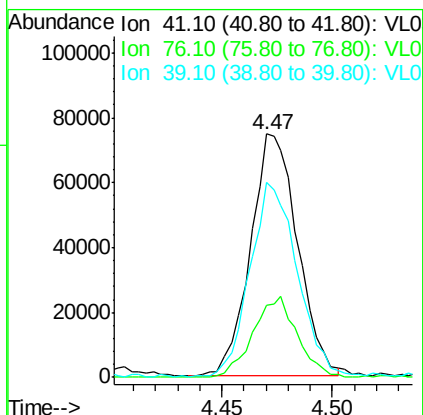
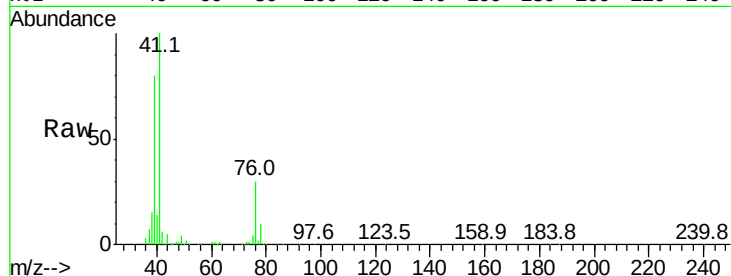




#21
 Allyl Chloride
 Concen: 1.172 ppbv
 RT: 4.47 min Scan# 477
 Delta R.T. -0.01 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

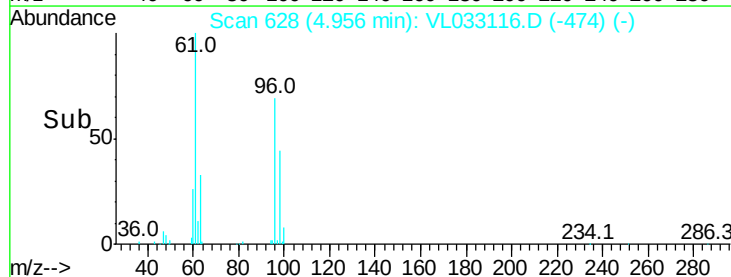
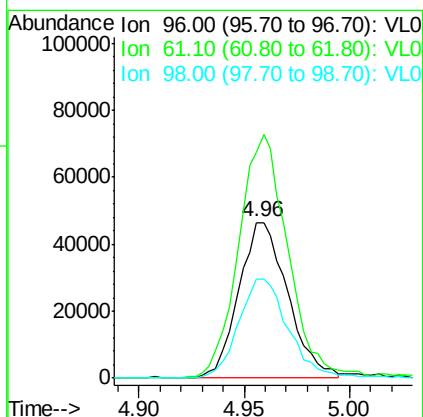
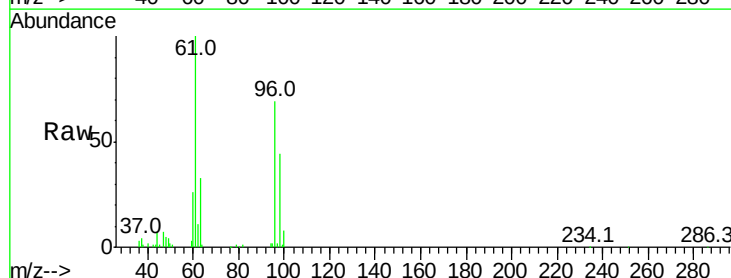
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

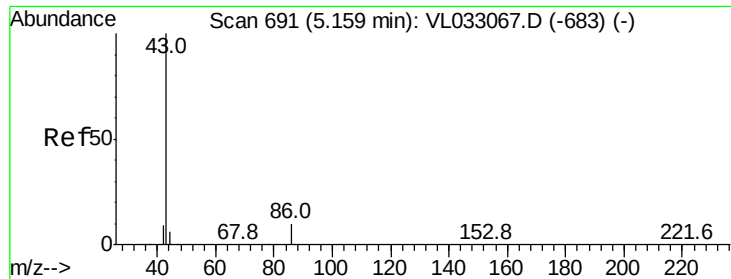
Tgt Ion: 41 Resp: 110696
 Ion Ratio Lower Upper
 41 100
 76 31.7 24.6 37.0
 39 82.6 63.3 94.9



#22
 trans-1,2-Dichloroethene
 Concen: 1.147 ppbv
 RT: 4.96 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Tgt Ion: 96 Resp: 74996
 Ion Ratio Lower Upper
 96 100
 61 143.8 127.6 191.4
 98 63.8 48.6 73.0





#23

Vinyl Acetate

Concen: 1.067 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 206903

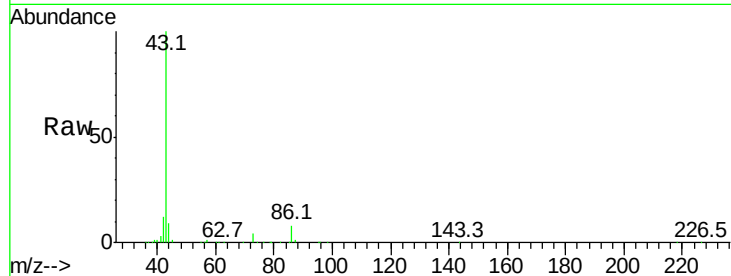
Ion Ratio Lower Upper

43 100

86 7.9 6.7 10.1

42 11.4 8.1 12.1

44 7.6 4.3 6.5#

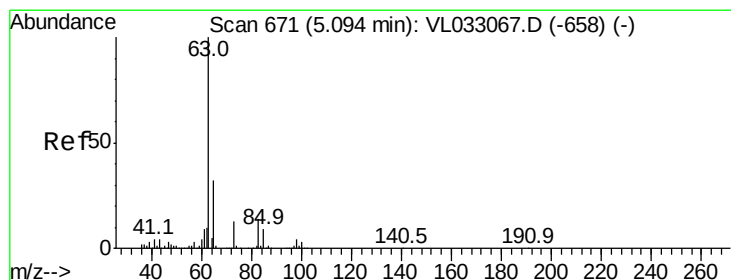
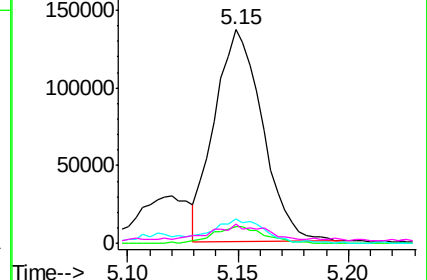
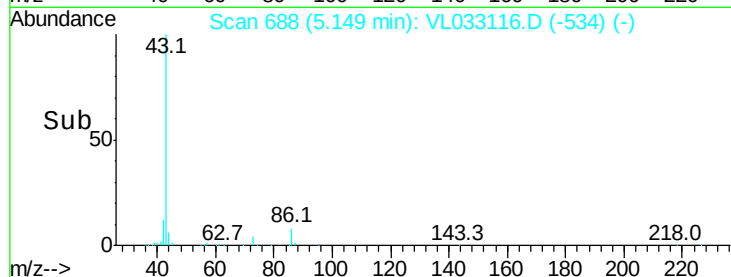


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.137 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

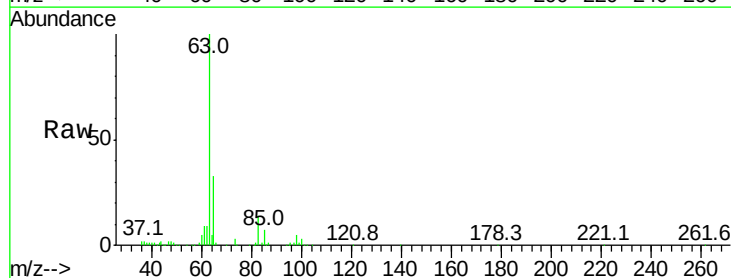
Tgt Ion: 63 Resp: 187117

Ion Ratio Lower Upper

63 100

98 5.4 2.5 7.4

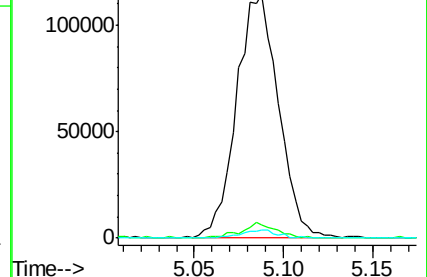
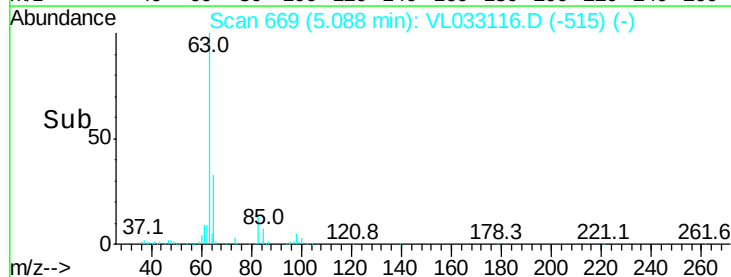
100 3.4 1.4 4.2

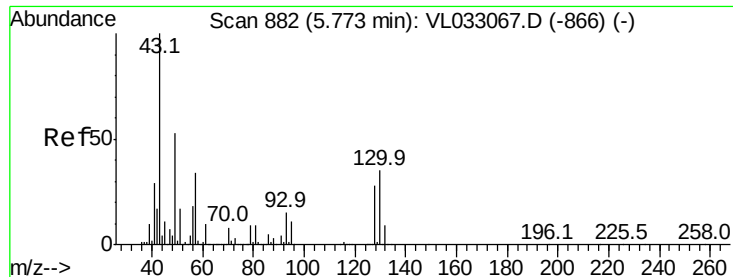


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 1.101 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 283573

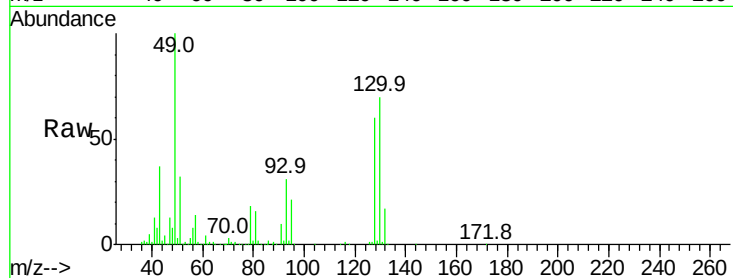
Ion Ratio Lower Upper

43 100

45 9.2 8.0 12.0

61 10.0 7.6 11.4

70 7.2 5.9 8.9



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

200000

150000

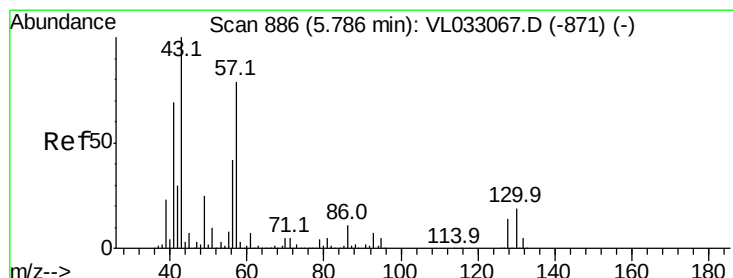
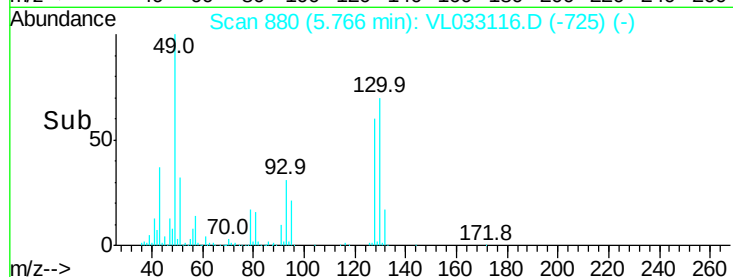
100000

50000

0

5.70 5.75 5.80 5.85

Time-->



#26

Hexane

Concen: 1.160 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Tgt Ion: 57 Resp: 140686

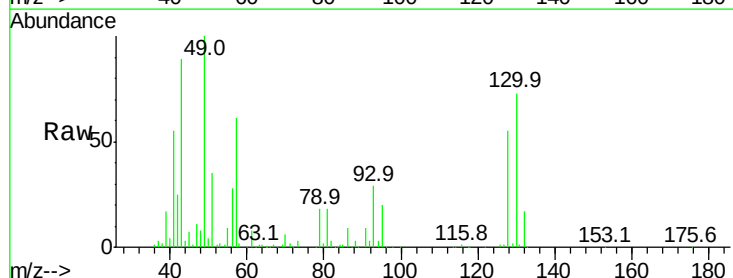
Ion Ratio Lower Upper

57 100

41 93.1 69.9 104.9

43 205.5 169.0 253.4

56 54.3 42.0 63.0



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

200000

150000

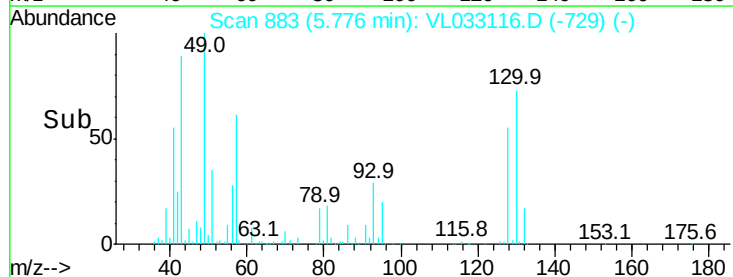
100000

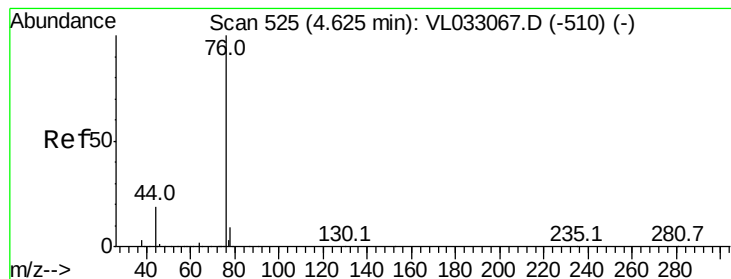
50000

0

5.70 5.75 5.80 5.85

Time-->





#27

Carbon Disulfide

Concen: 1.151 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

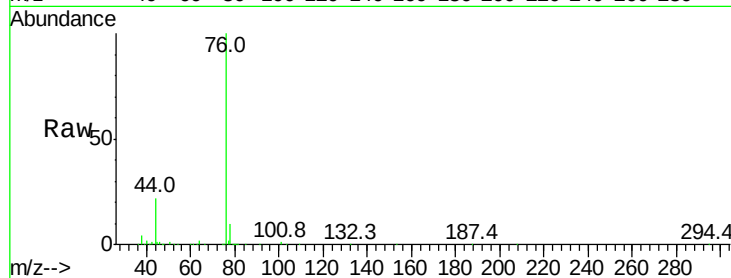
Tgt Ion: 76 Resp: 172118

Ion Ratio Lower Upper

76 100

44 20.8 15.0 22.4

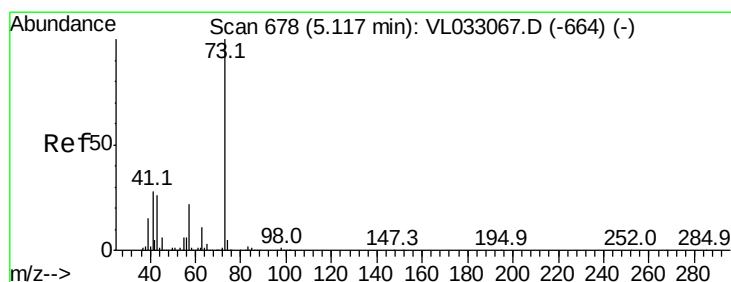
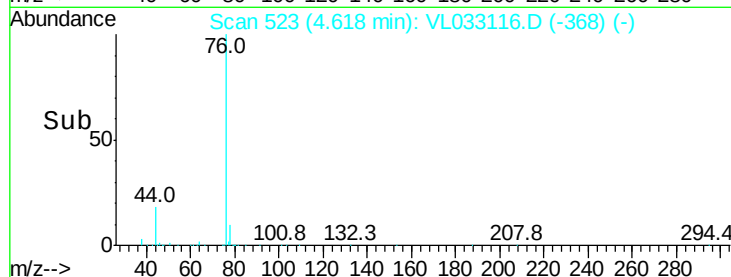
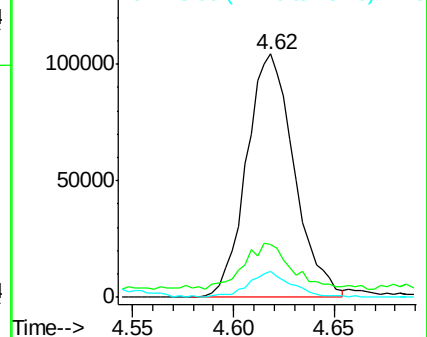
78 10.0 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 1.095 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033116.D

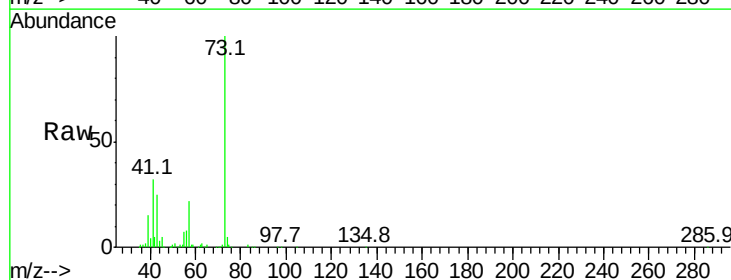
Acq: 28 Jan 2019 16:59

Tgt Ion: 73 Resp: 207317

Ion Ratio Lower Upper

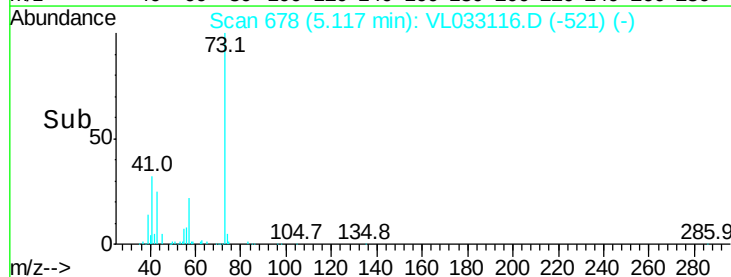
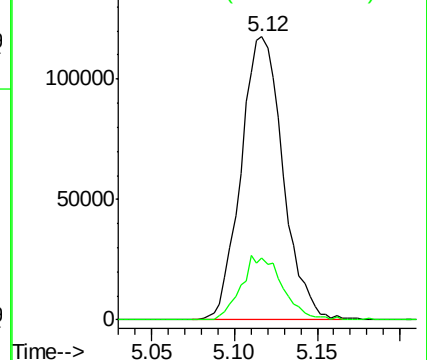
73 100

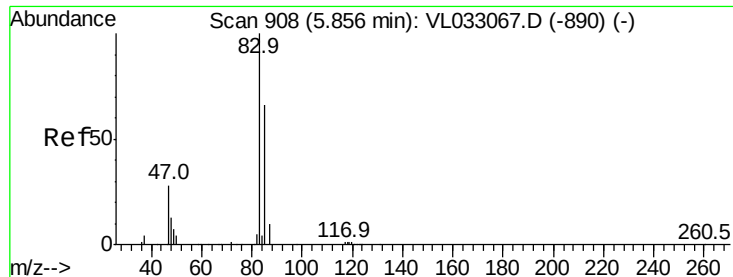
57 22.2 17.6 26.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

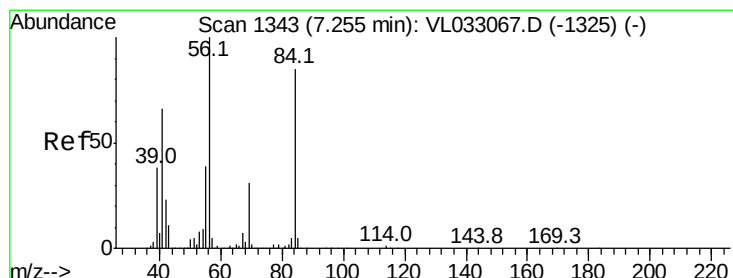
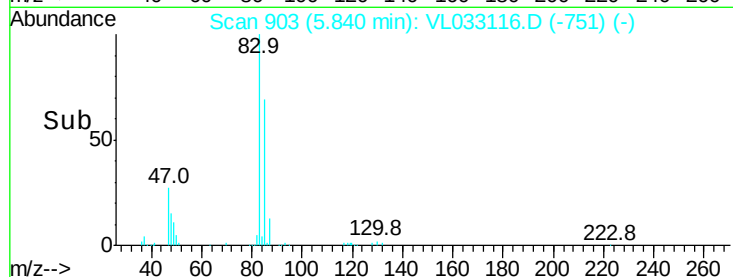
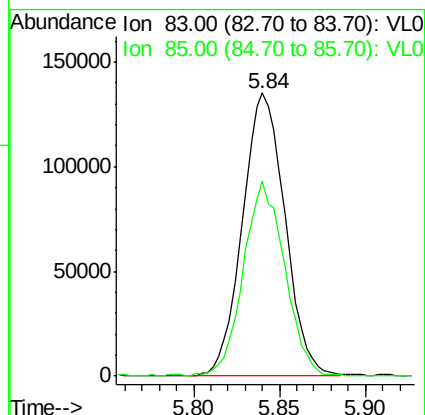
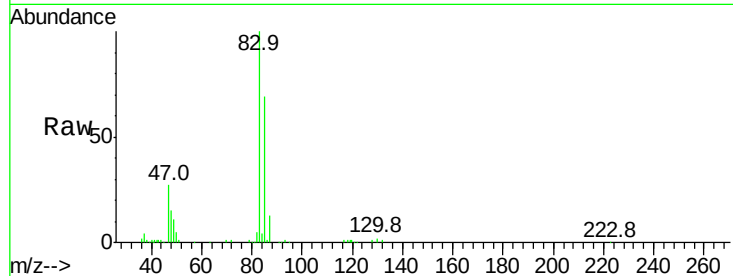




#29
Chloroform
Concen: 1.125 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

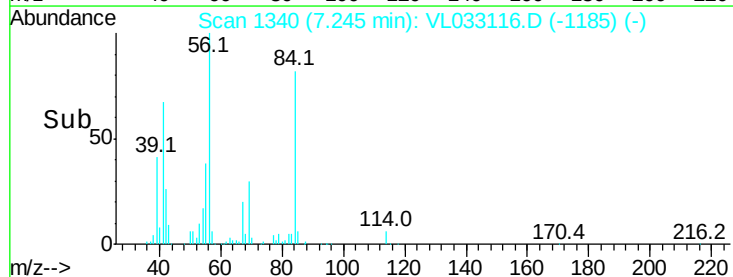
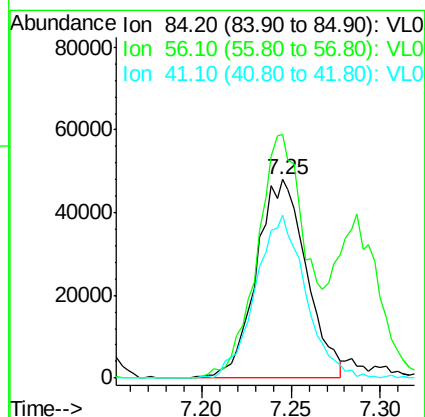
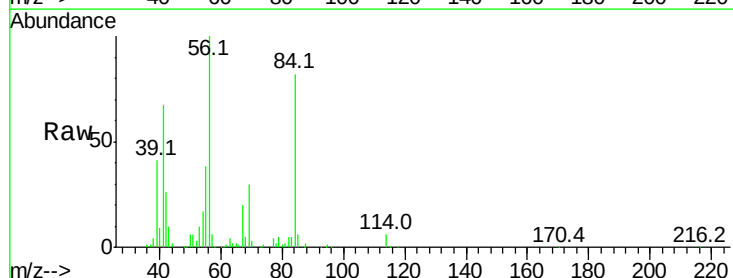
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

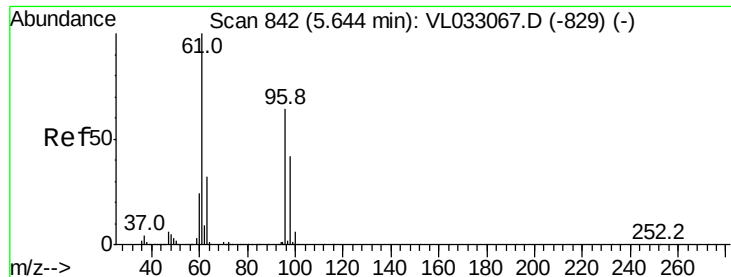
Tgt Ion: 83 Resp: 232403
Ion Ratio Lower Upper
83 100
85 69.1 50.4 75.6



#30
Cyclohexane
Concen: 1.043 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

Tgt Ion: 84 Resp: 94271
Ion Ratio Lower Upper
84 100
56 118.2 102.4 153.6
41 82.7 62.7 94.1





#31

cis-1,2-Dichloroethene

Concen: 1.063 ppbv

RT: 5.63 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

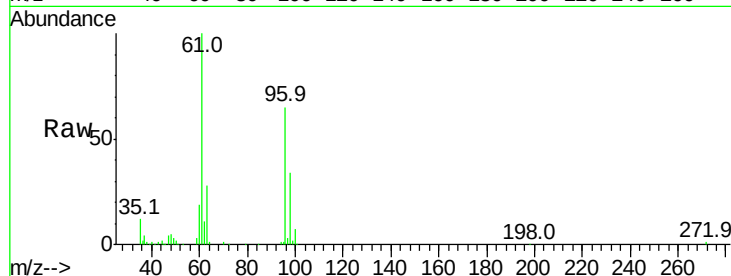
Tgt Ion: 61 Resp: 119677

Ion Ratio Lower Upper

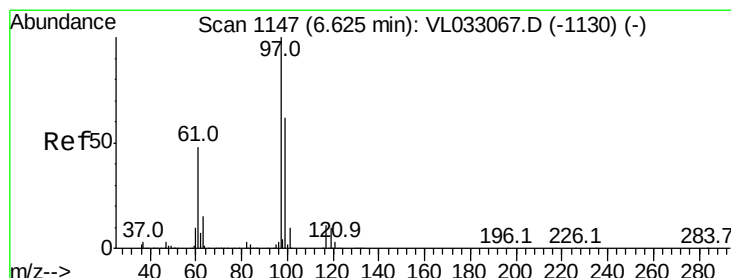
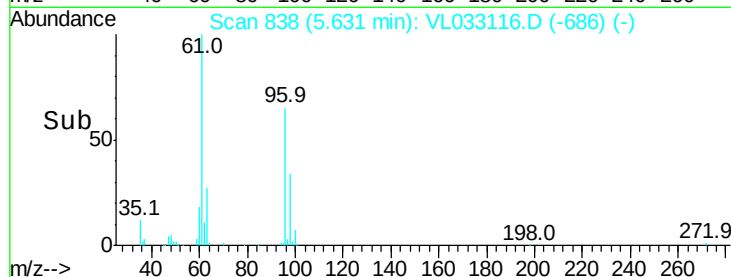
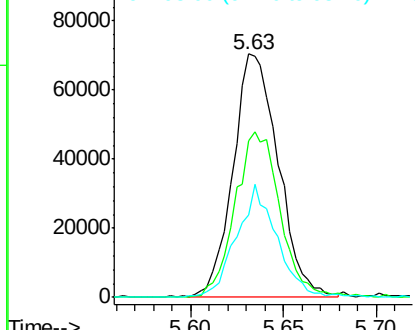
61 100

96 64.1 57.6 86.4

98 32.7 37.0 55.4#



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



#32

1,1,1-Trichloroethane

Concen: 1.519 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

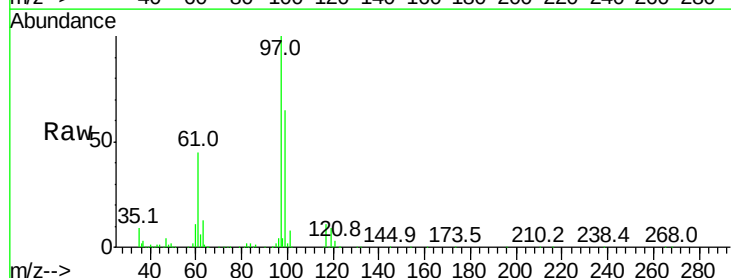
Tgt Ion: 97 Resp: 318596

Ion Ratio Lower Upper

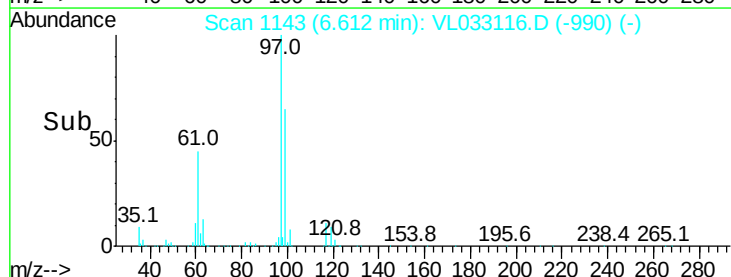
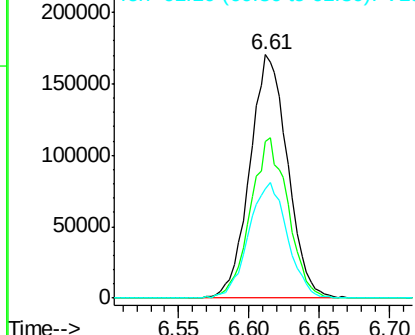
97 100

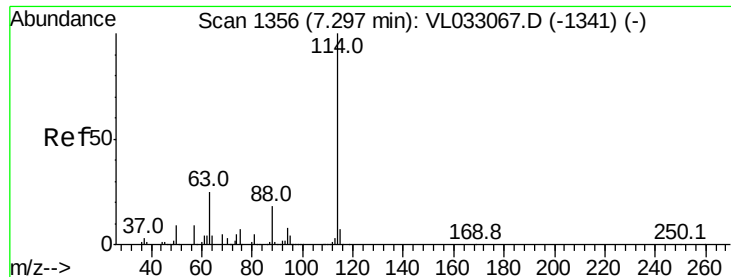
99 65.5 51.7 77.5

61 48.8 38.6 57.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

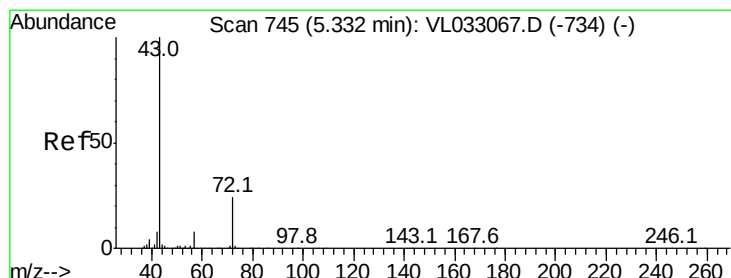
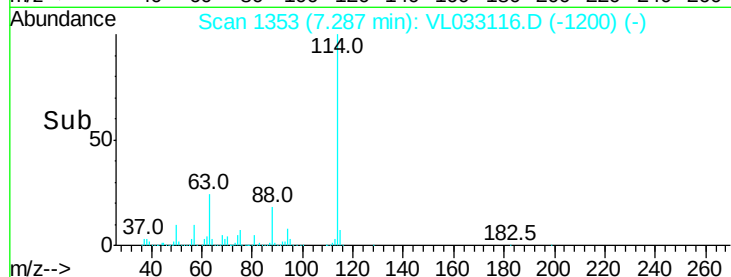
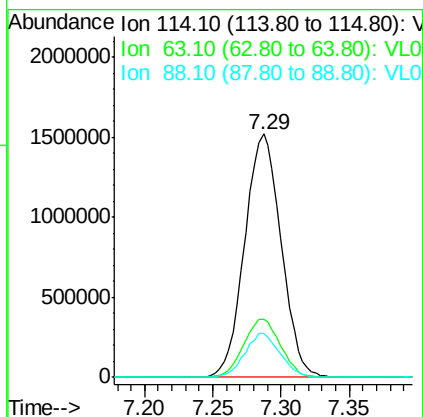
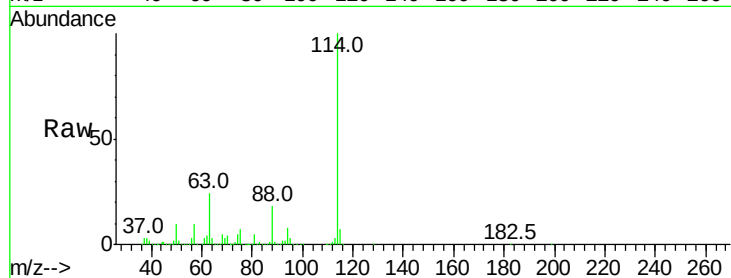




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

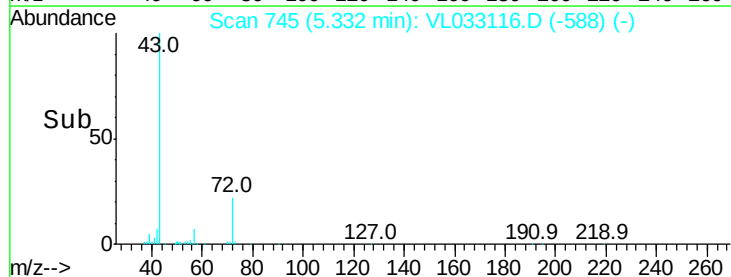
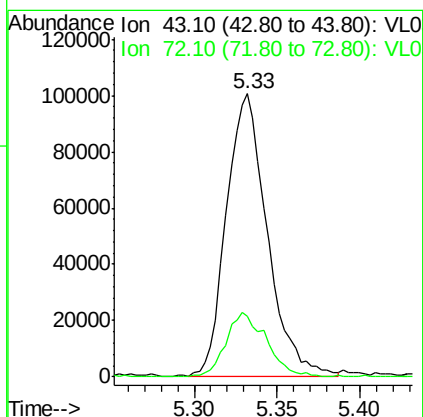
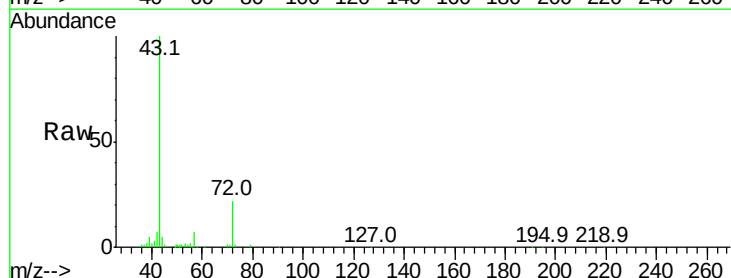
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

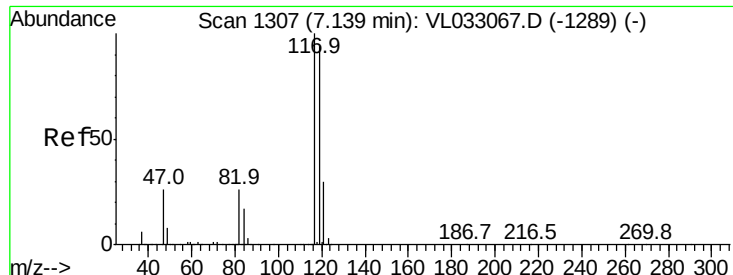
Tgt Ion: 114 Resp: 2817633
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.8 29.8
 88 17.7 14.2 21.2



#34
 2-Butanone
 Concen: 1.048 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Tgt Ion: 43 Resp: 171621
 Ion Ratio Lower Upper
 43 100
 72 23.0 18.7 28.1





#35

Carbon Tetrachloride

Concen: 1.037 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

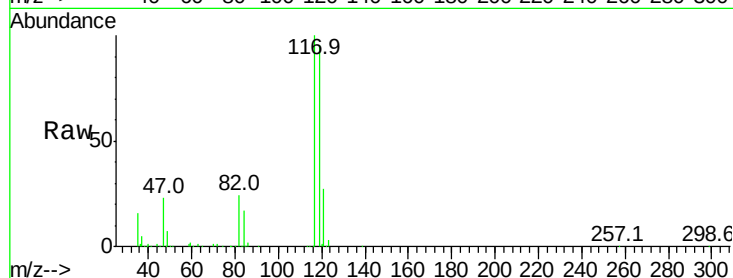
Tgt Ion:117 Resp: 251001

Ion Ratio Lower Upper

117 100

119 95.3 75.8 113.6

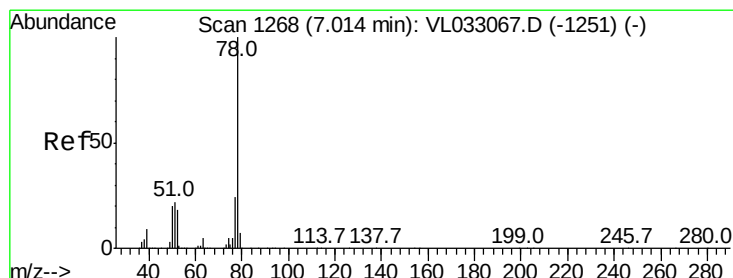
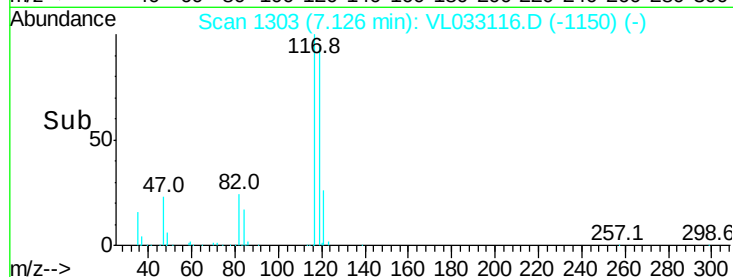
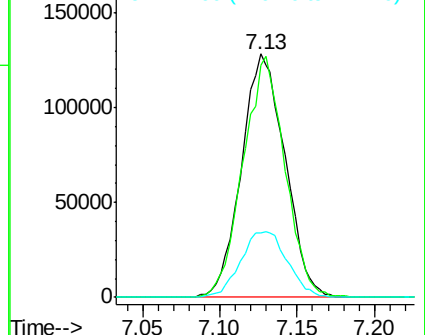
121 26.7 24.6 36.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.091 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

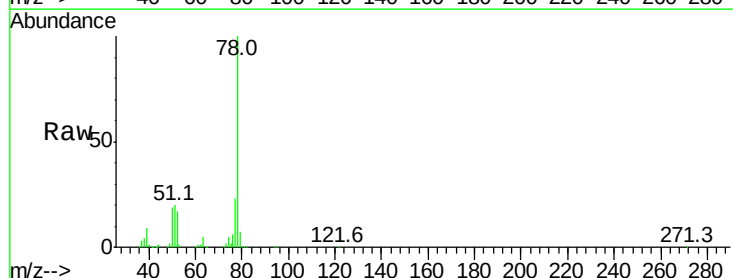
Tgt Ion: 78 Resp: 251882

Ion Ratio Lower Upper

78 100

77 22.6 18.5 27.7

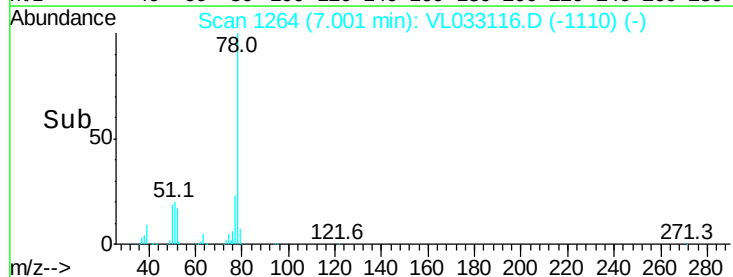
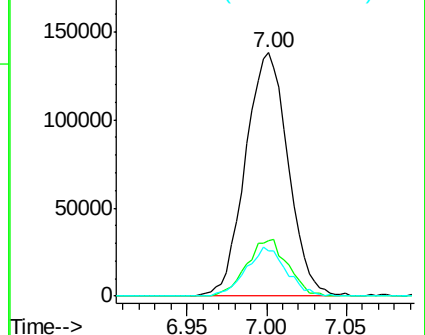
50 18.6 15.4 23.2

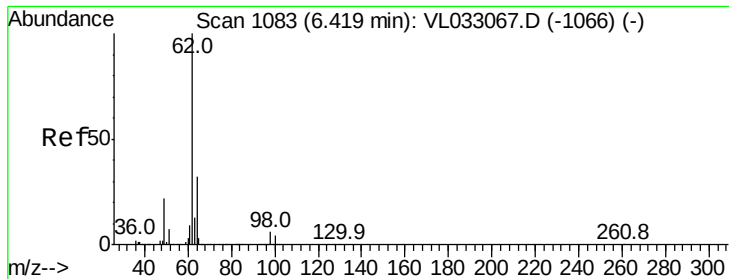


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

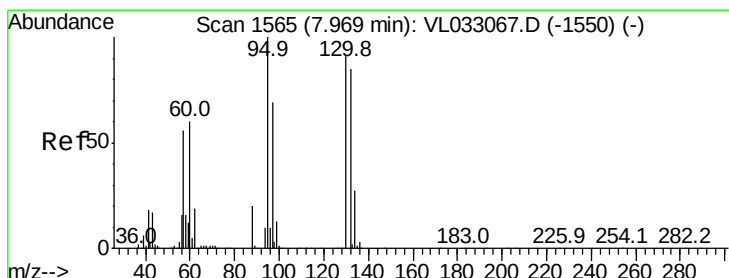
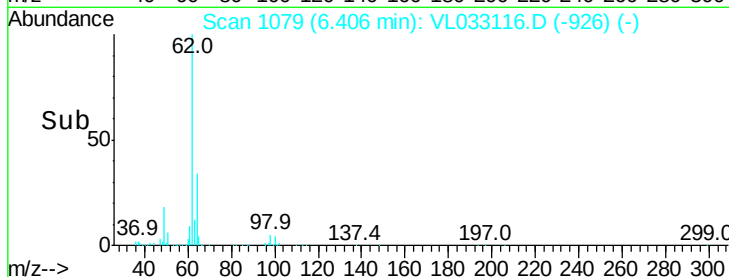
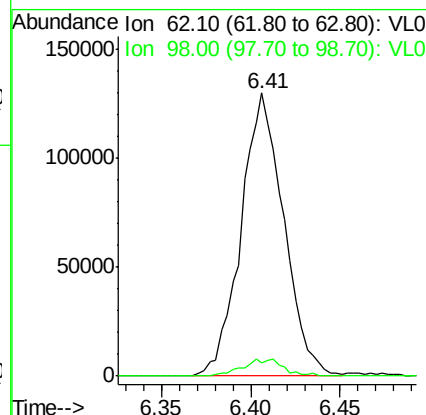
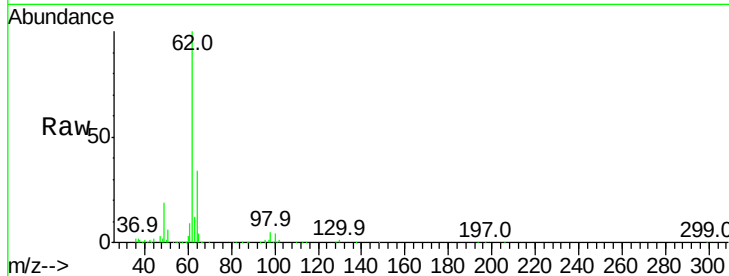




#37
 1,2-Dichloroethane
 Concen: 1.344 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

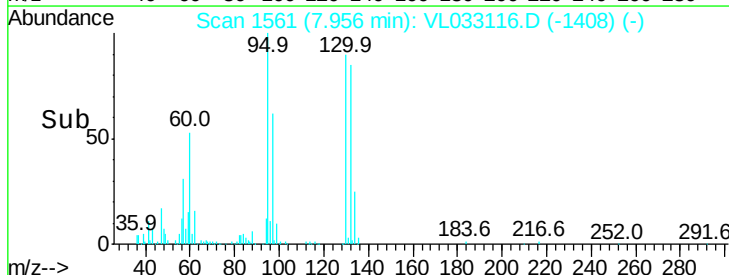
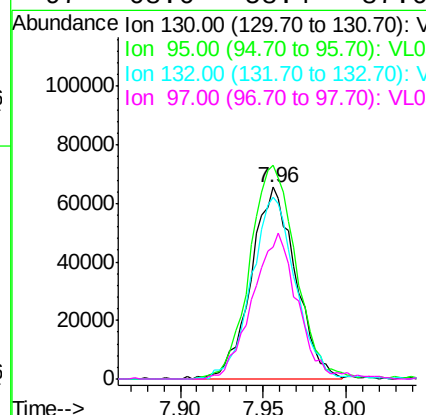
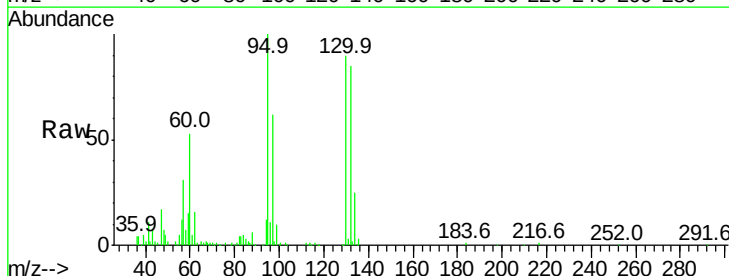
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

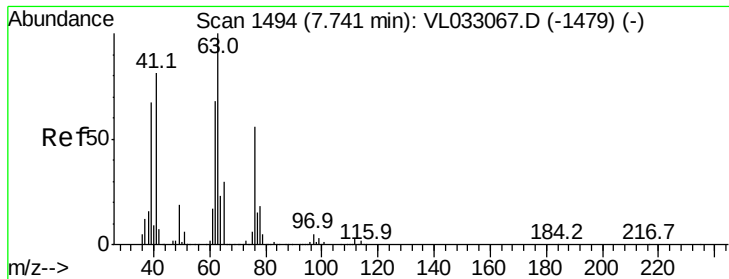
Tgt Ion: 62 Resp: 216515
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.6 7.0



#38
 Trichloroethene
 Concen: 1.290 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Tgt Ion: 130 Resp: 122438
 Ion Ratio Lower Upper
 130 100
 95 111.5 94.0 141.0
 132 94.8 79.7 119.5
 97 68.6 58.4 87.6





#39

1,2-Dichloropropane

Concen: 1.233 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

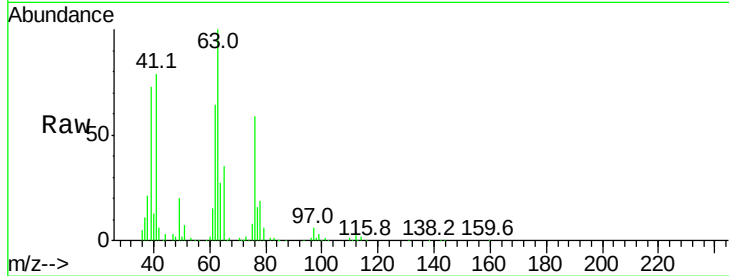
Tgt Ion: 63 Resp: 106866

Ion Ratio Lower Upper

63 100

41 78.5 57.8 86.8

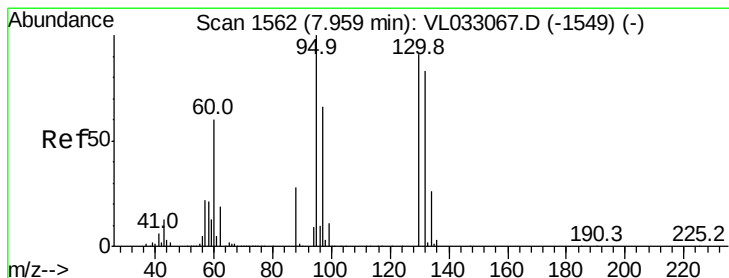
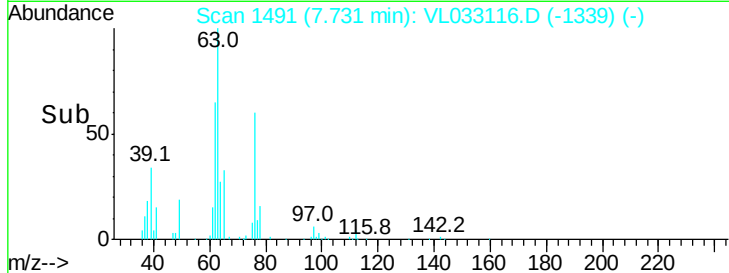
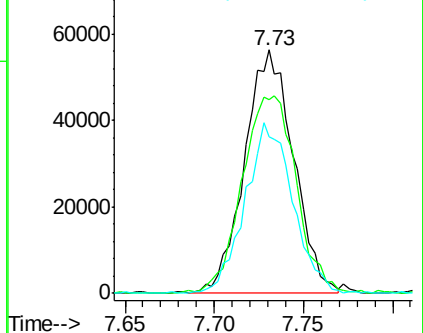
62 63.8 54.6 82.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.580 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. 0.02 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Tgt Ion: 88 Resp: 19081

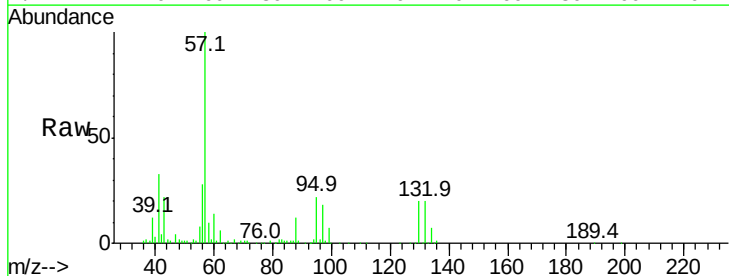
Ion Ratio Lower Upper

88 100

58 0.0 103.5 155.3#

43 0.0 217.8 326.8#

57 0.0 992.7 1489.1#

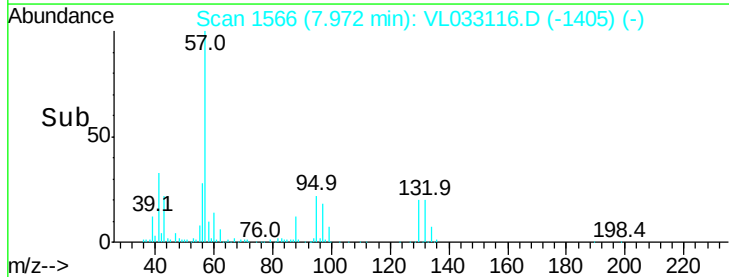
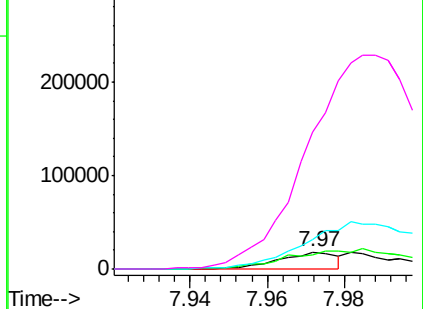


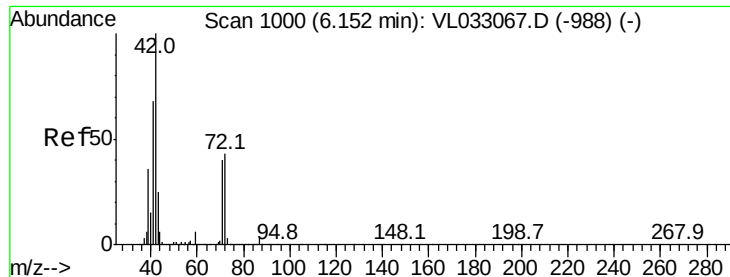
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 1.012 ppbv

RT: 6.16 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

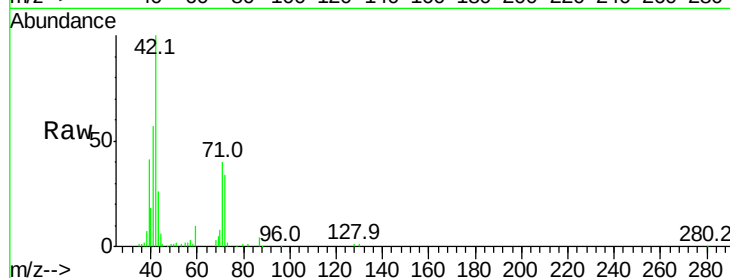
Tgt Ion: 42 Resp: 84355

Ion Ratio Lower Upper

42 100

72 40.2 33.8 50.8

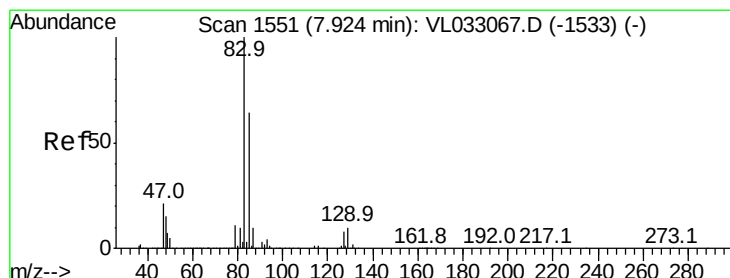
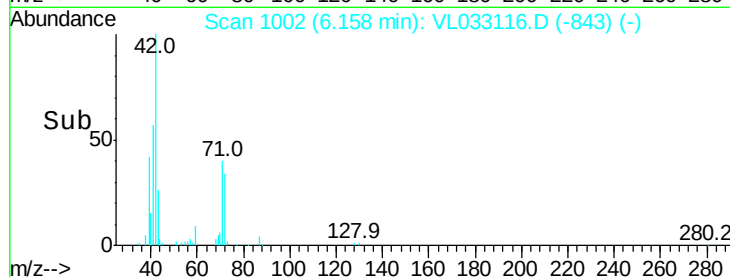
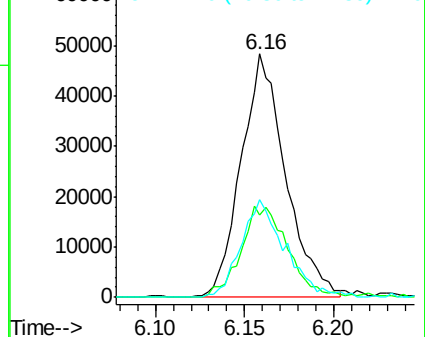
71 39.5 31.6 47.4



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 1.255 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

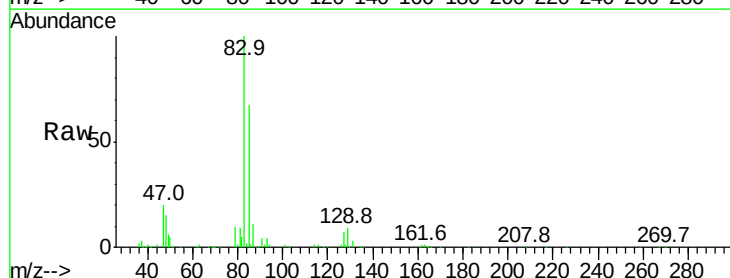
Tgt Ion: 83 Resp: 277732

Ion Ratio Lower Upper

83 100

85 66.6 52.9 79.3

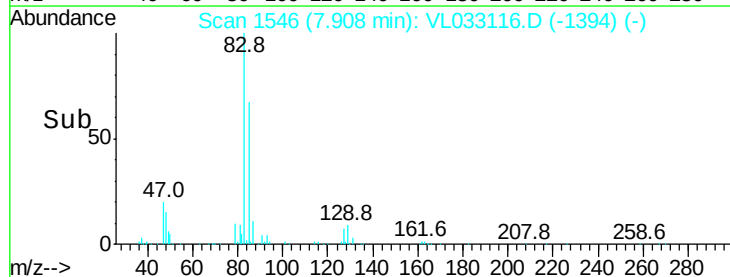
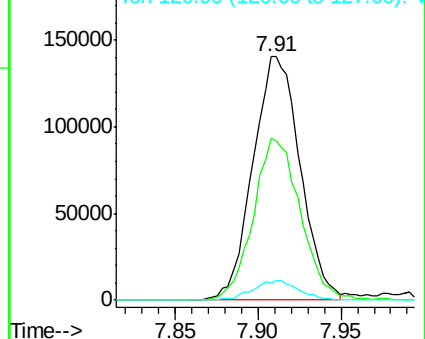
127 7.1 6.7 10.1

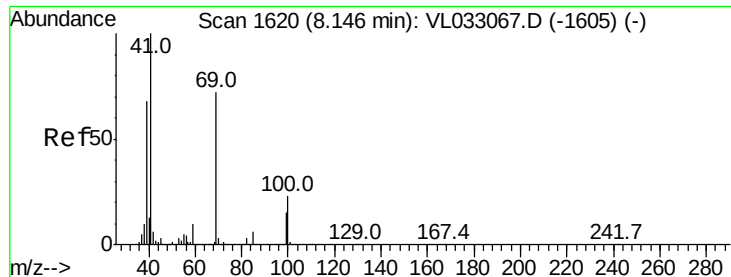


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.601 ppbv

RT: 8.13 min Scan# 1616

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

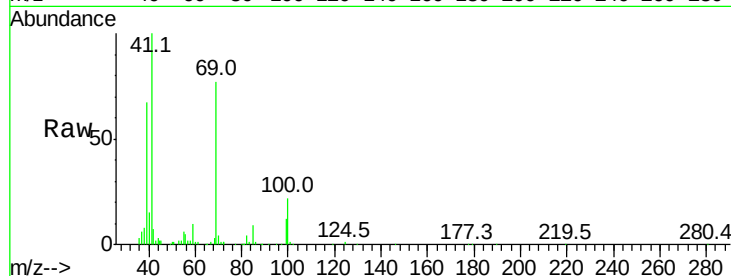
Tgt Ion: 69 Resp: 52092

Ion Ratio Lower Upper

69 100

41 0.0 113.9 170.9#

100 0.0 26.2 39.4#

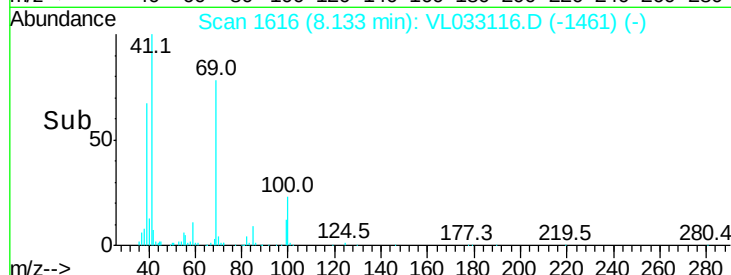


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

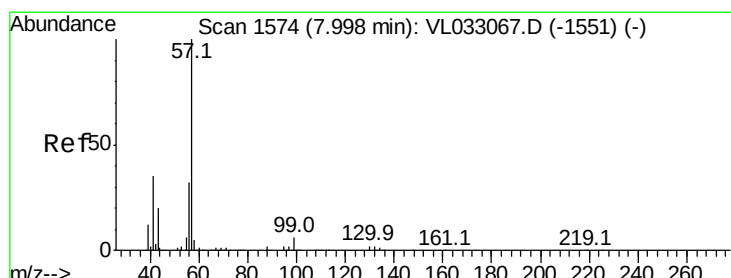
Ion 100.10 (99.80 to 100.80): VL0

Time-->



8.13

Time-->



#44

2,2,4-Trimethylpentane

Concen: 1.310 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

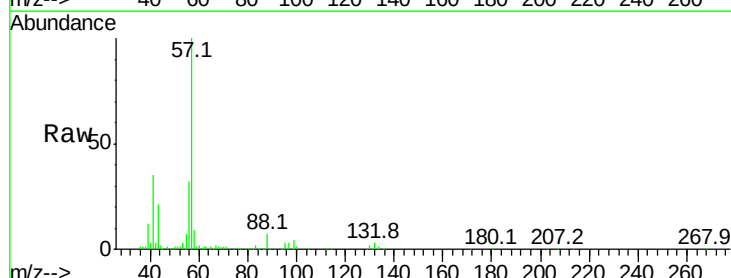
Tgt Ion: 57 Resp: 512199

Ion Ratio Lower Upper

57 100

41 34.6 26.1 39.1

56 31.6 25.0 37.4

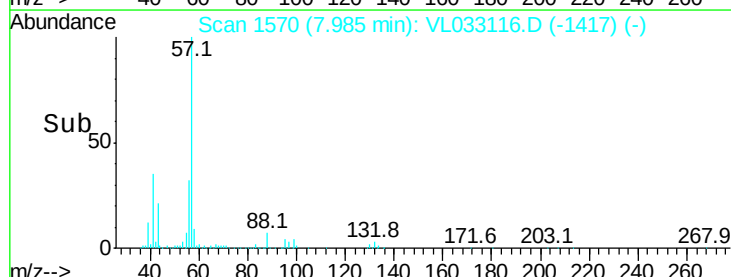


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

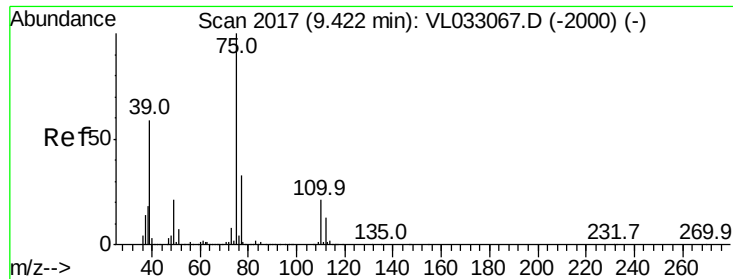
Ion 56.10 (55.80 to 56.80): VL0

Time-->



7.98

Time-->



#45

t-1,3-Dichloropropene

Concen: 1.102 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

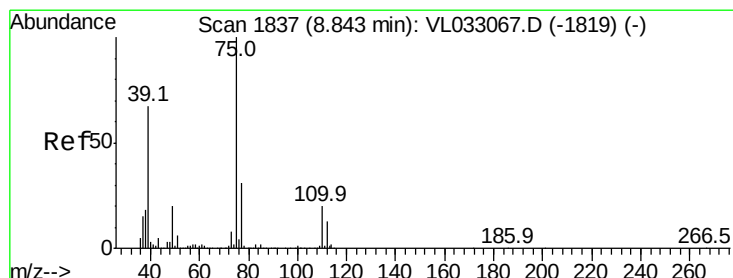
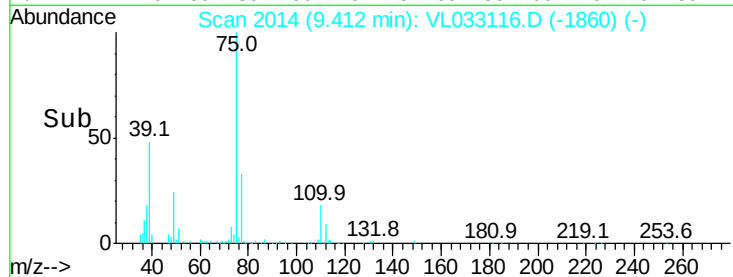
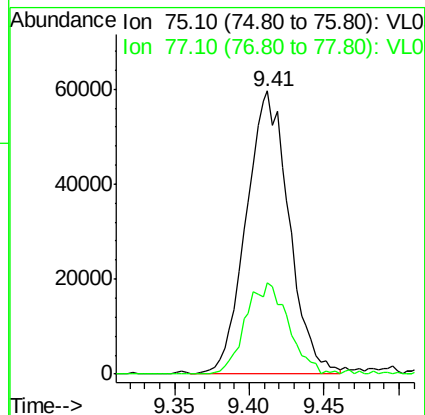
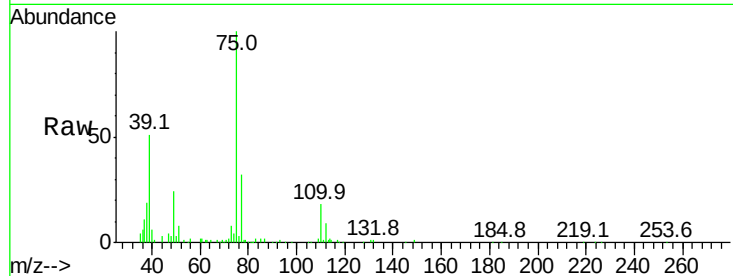
VSTDIC001

Tgt Ion: 75 Resp: 118769

Ion Ratio Lower Upper

75 100

77 32.3 24.9 37.3



#46

cis-1,3-Dichloropropene

Concen: 1.182 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

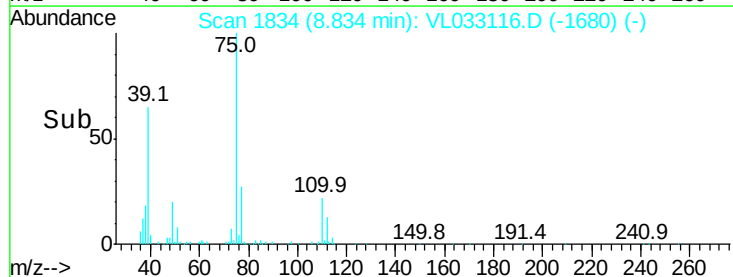
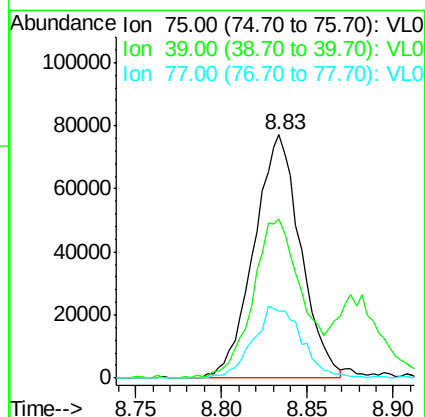
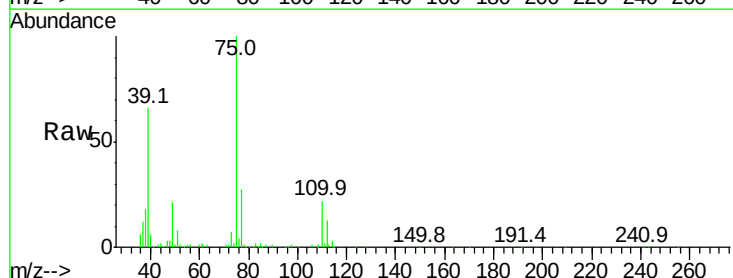
Tgt Ion: 75 Resp: 145380

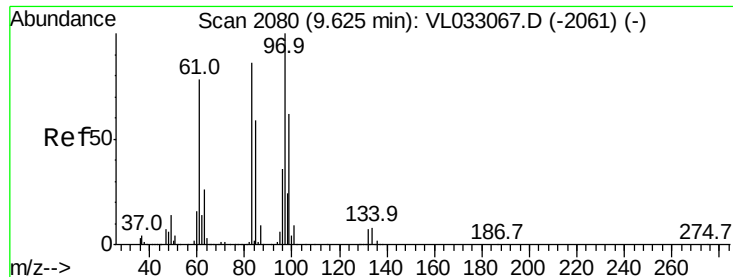
Ion Ratio Lower Upper

75 100

39 65.3 52.0 78.0

77 27.5 25.5 38.3

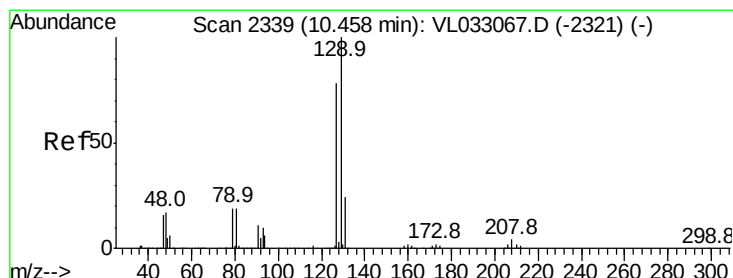
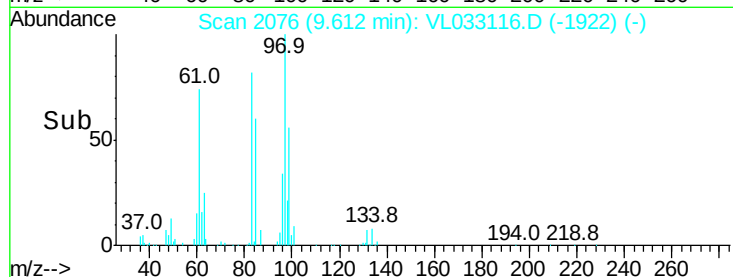
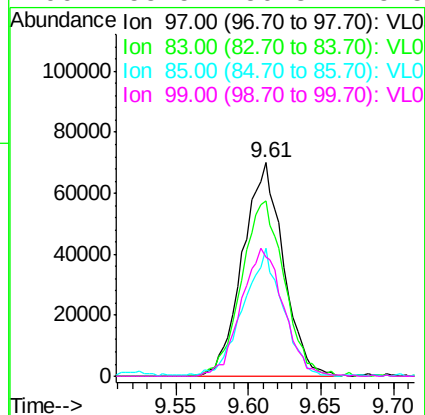
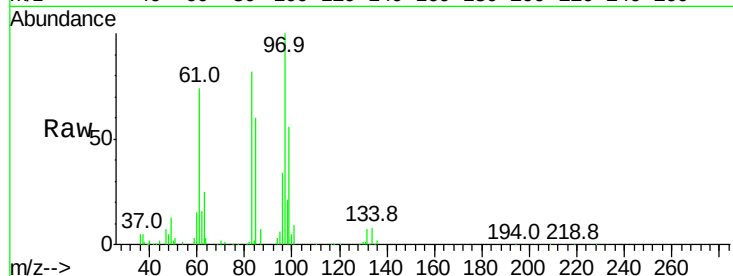




#47
 1,1,2-Trichloroethane
 Concen: 1.352 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

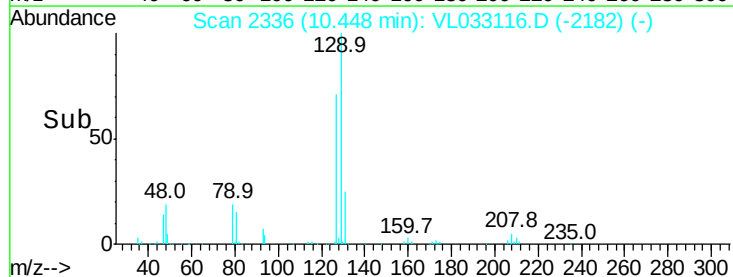
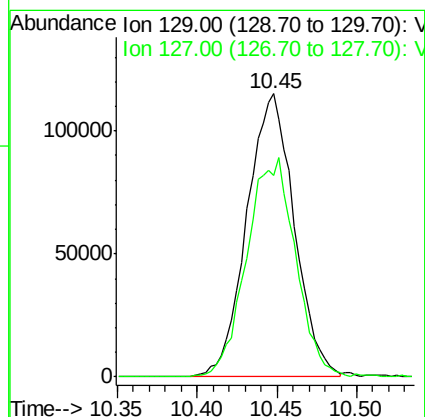
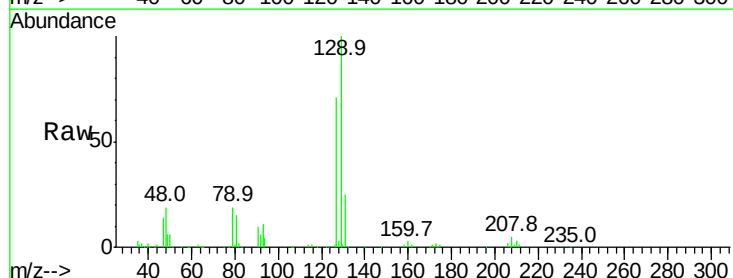
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

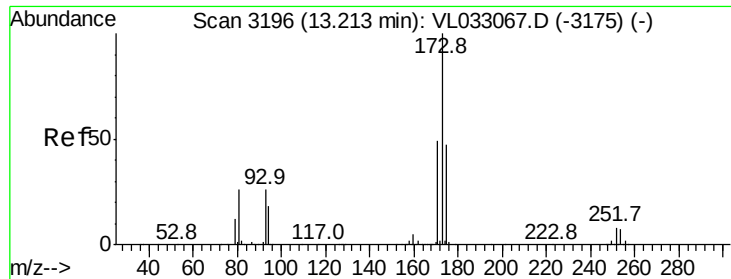
Tgt Ion: 97 Resp: 136924
 Ion Ratio Lower Upper
 97 100
 83 82.0 71.4 107.2
 85 60.0 47.2 70.8
 99 55.5 50.3 75.5



#48
 Dibromochloromethane
 Concen: 1.306 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Tgt Ion: 129 Resp: 233680
 Ion Ratio Lower Upper
 129 100
 127 80.2 39.3 117.9





#49

Bromoform

Concen: 1.285 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

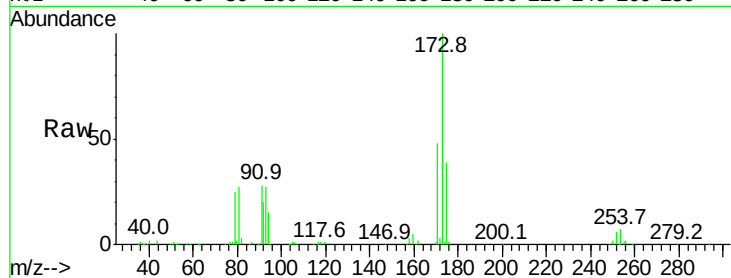
Tgt Ion:173 Resp: 200949

Ion Ratio Lower Upper

173 100

175 47.9 38.9 58.3

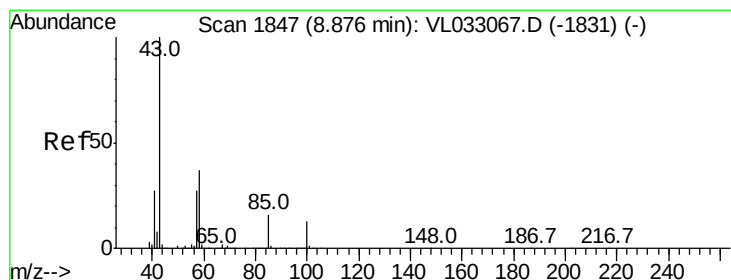
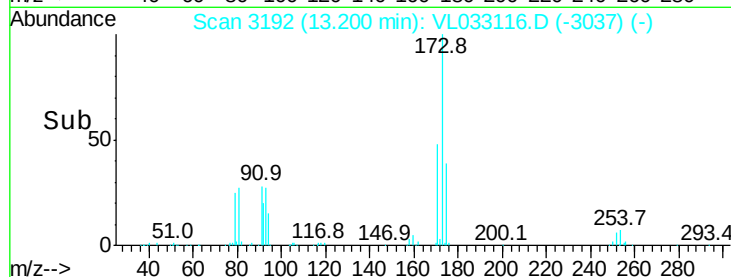
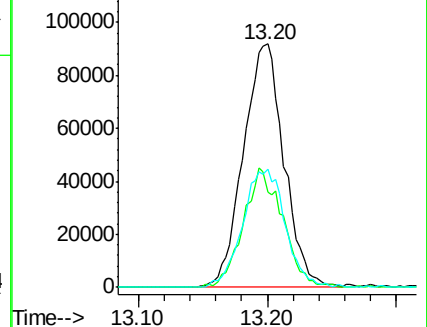
171 51.0 41.8 62.6



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: 1.332 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL033116.D

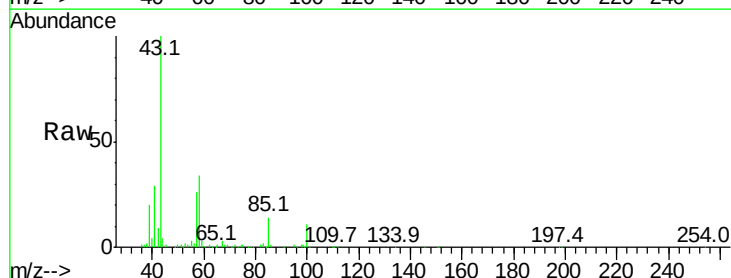
Acq: 28 Jan 2019 16:59

Tgt Ion: 43 Resp: 276240

Ion Ratio Lower Upper

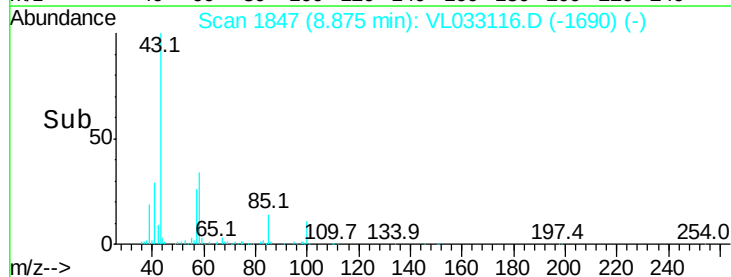
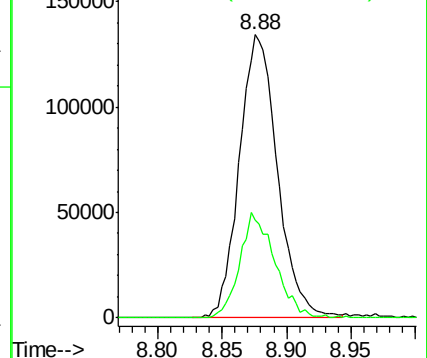
43 100

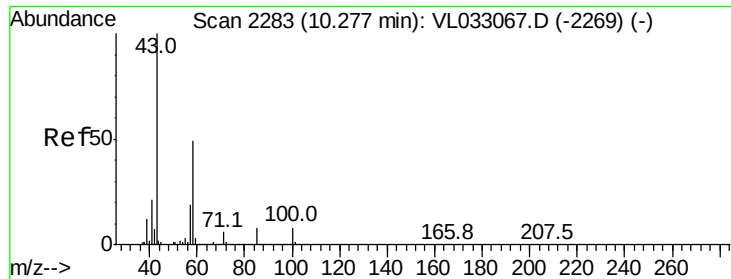
58 34.5 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 1.173 ppbv

RT: 10.29 min Scan# 2286

Delta R.T. 0.02 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

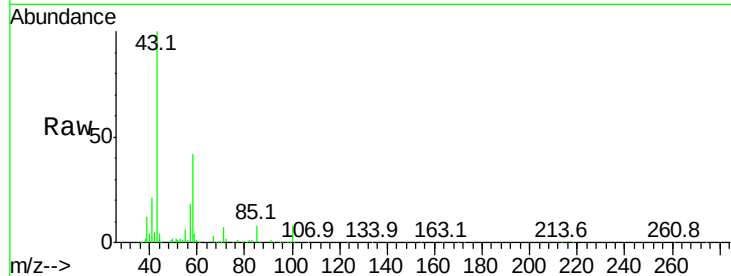
Tgt Ion: 43 Resp: 176137

Ion Ratio Lower Upper

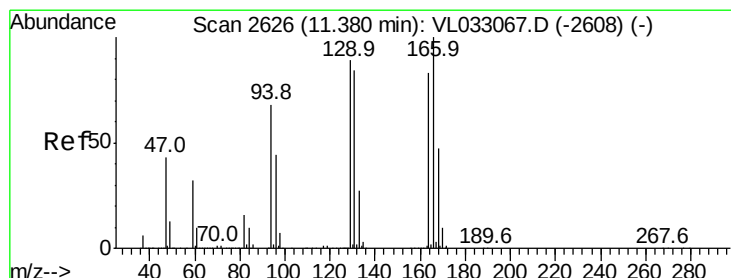
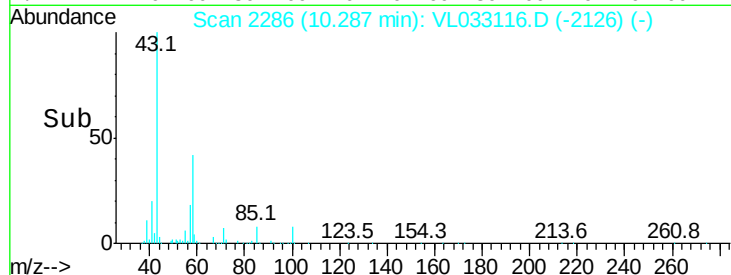
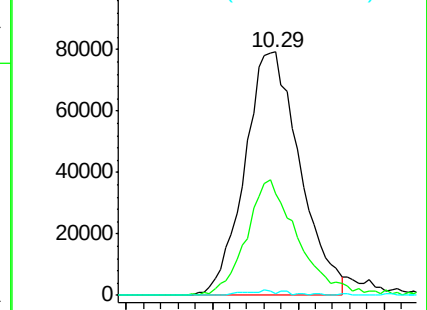
43 100

58 45.7 39.5 59.3

98 1.7 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 1.277 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Tgt Ion: 164 Resp: 104155

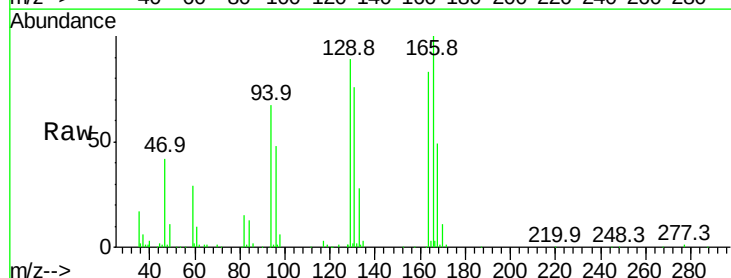
Ion Ratio Lower Upper

164 100

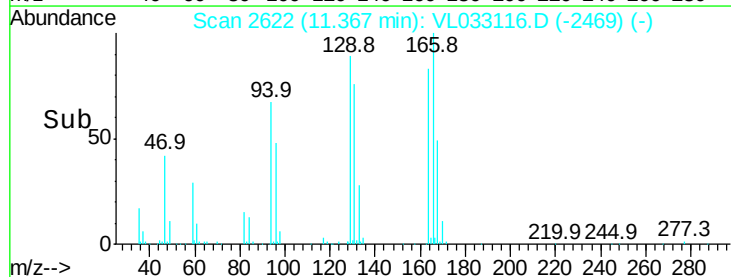
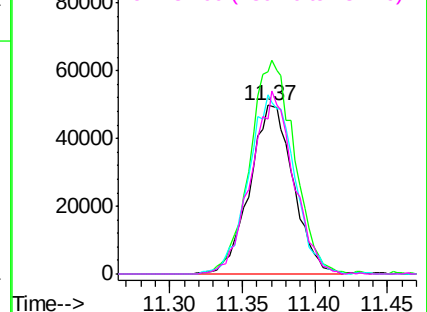
166 119.9 101.3 151.9

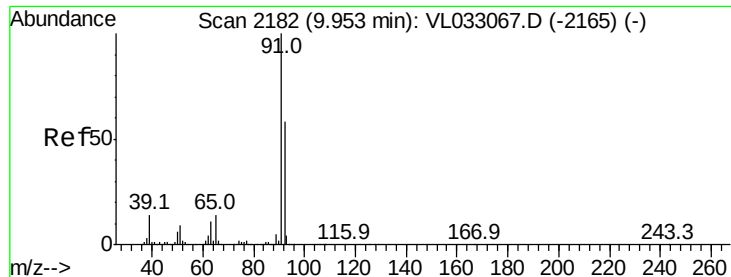
129 106.5 83.3 124.9

131 94.1 82.0 123.0



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.222 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

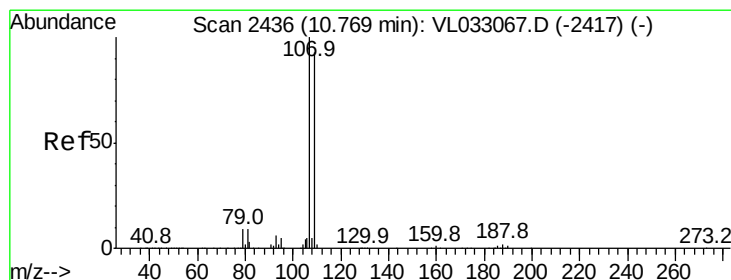
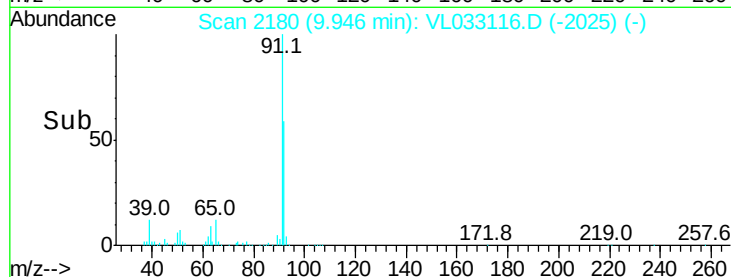
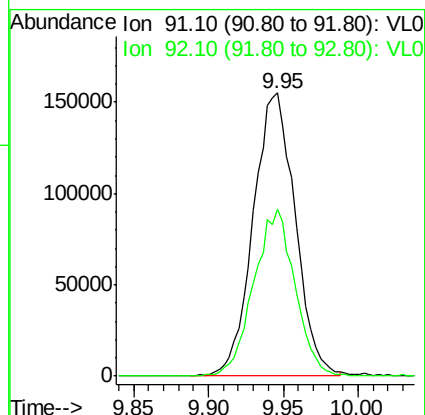
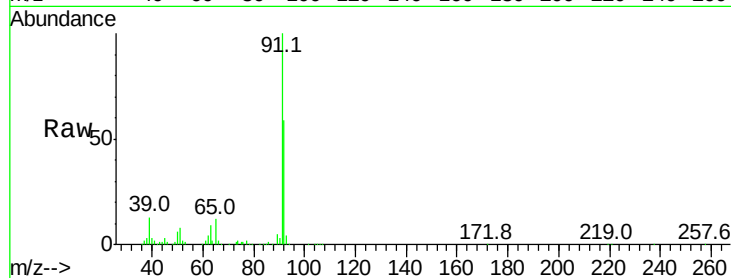
VSTDIC001

Tgt Ion: 91 Resp: 302147

Ion Ratio Lower Upper

91 100

92 58.2 47.9 71.9



#54

1,2-Dibromoethane

Concen: 1.294 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033116.D

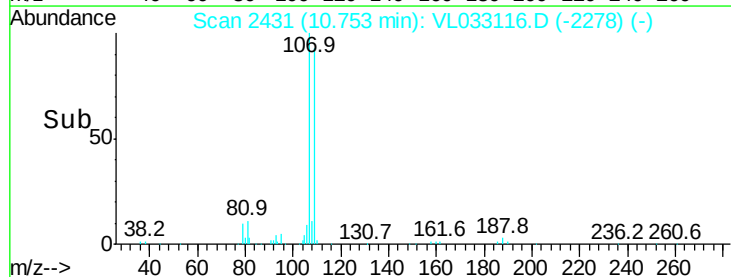
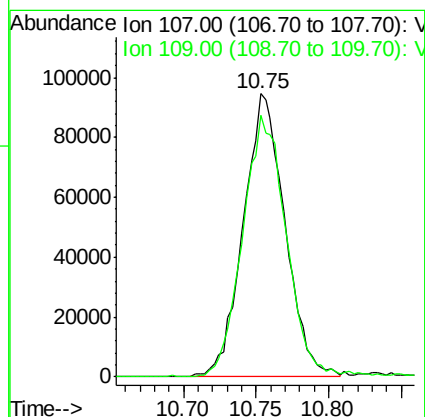
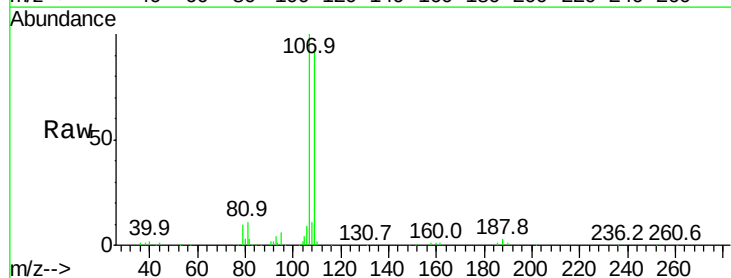
Acq: 28 Jan 2019 16:59

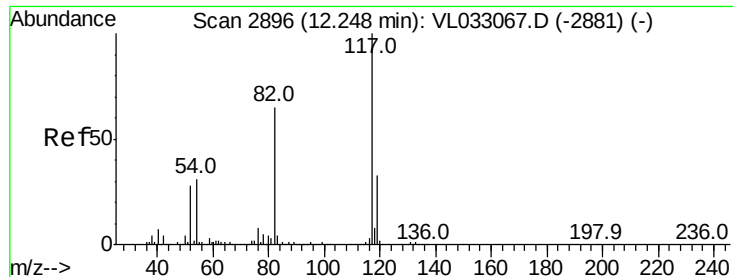
Tgt Ion: 107 Resp: 188891

Ion Ratio Lower Upper

107 100

109 92.5 75.8 113.6

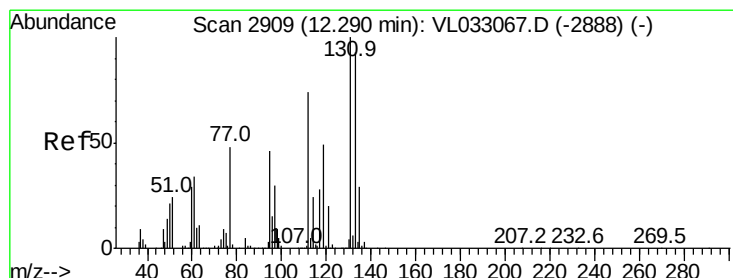
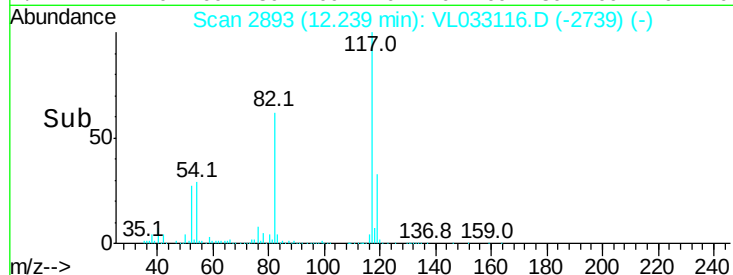
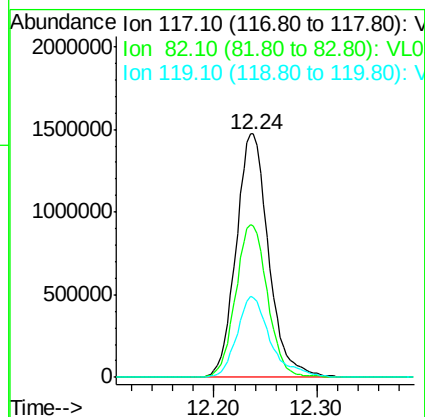
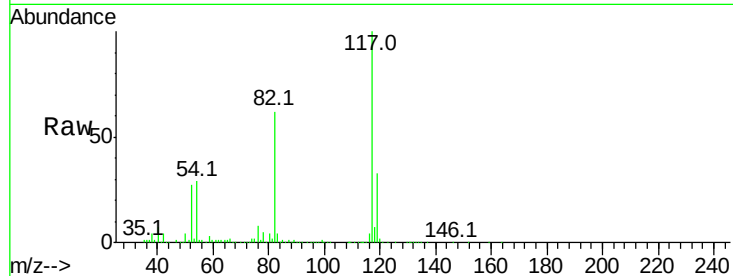




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

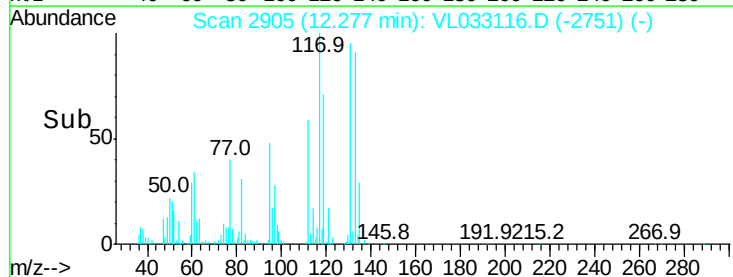
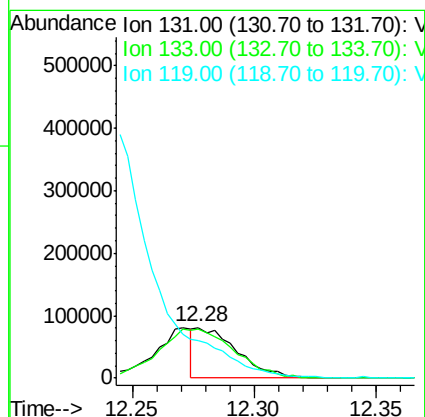
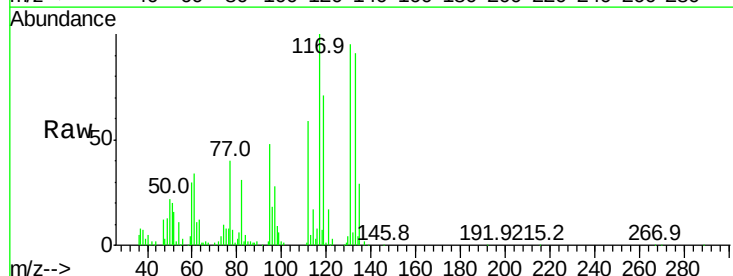
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

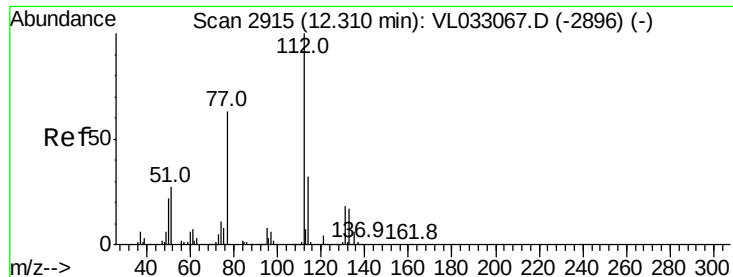
Tgt Ion:117 Resp: 3227685
Ion Ratio Lower Upper
117 100
82 61.7 48.3 72.5
119 34.5 25.9 38.9



#56
1,1,1,2-Tetrachloroethane
Concen: 0.567 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

Tgt Ion:131 Resp: 94573
Ion Ratio Lower Upper
131 100
133 182.1 76.6 115.0#
119 0.0 44.6 66.8#

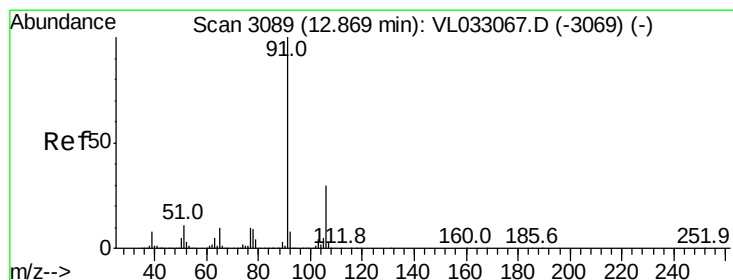
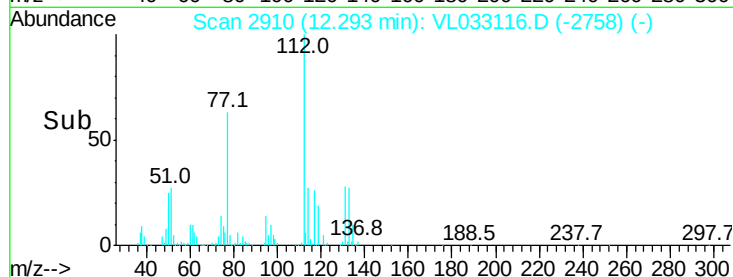
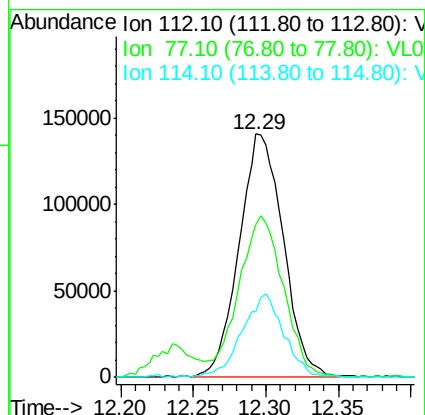
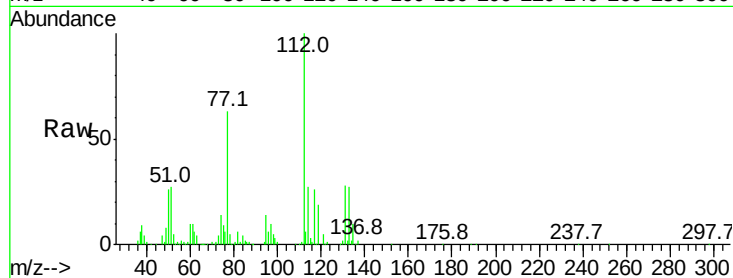




#57
Chlorobenzene
Concen: 1.095 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

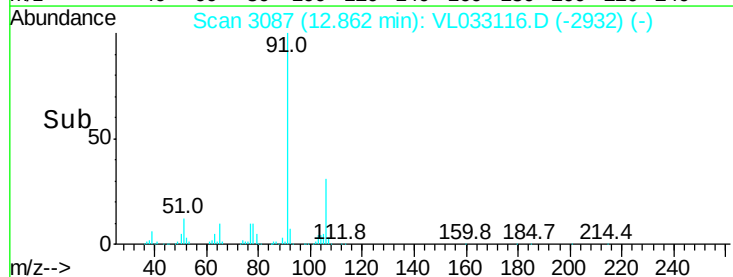
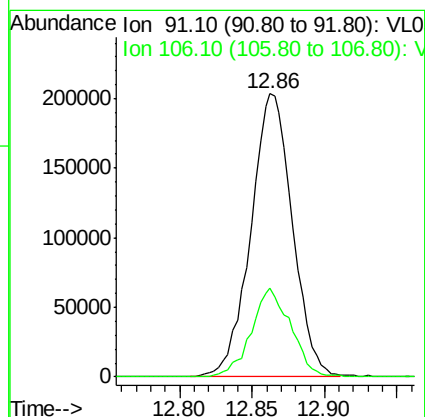
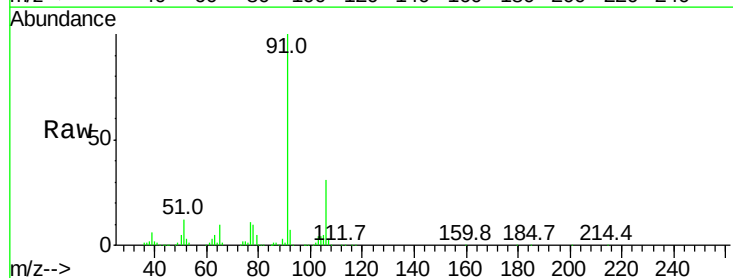
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

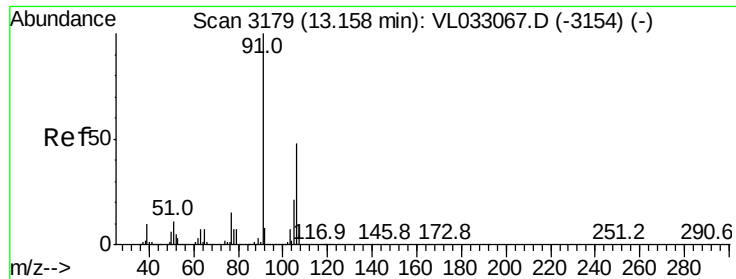
Tgt Ion: 112 Resp: 295005
Ion Ratio Lower Upper
112 100
77 62.2 51.6 77.4
114 26.9 27.9 34.1#



#58
Ethyl Benzene
Concen: 0.996 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

Tgt Ion: 91 Resp: 405778
Ion Ratio Lower Upper
91 100
106 31.5 24.4 36.6

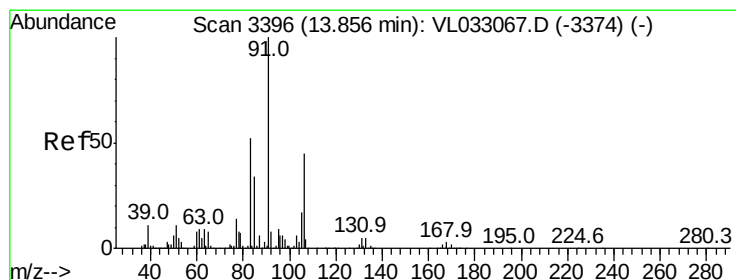
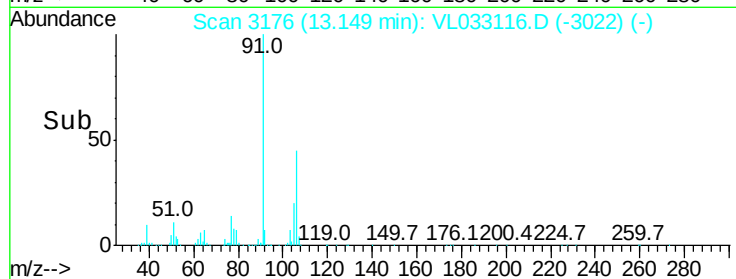
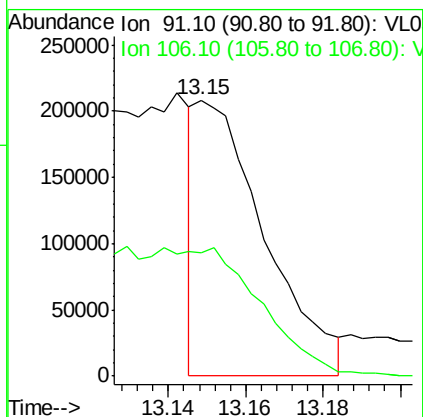
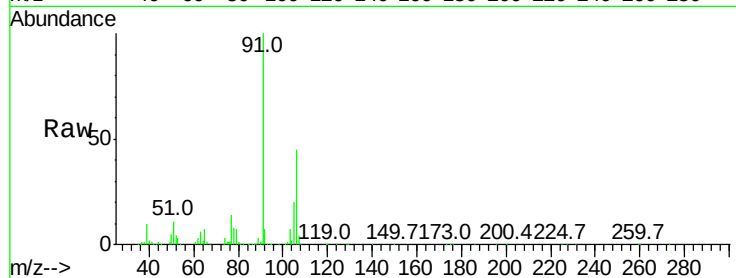




#59
m/p-Xylene
Concen: 0.672 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

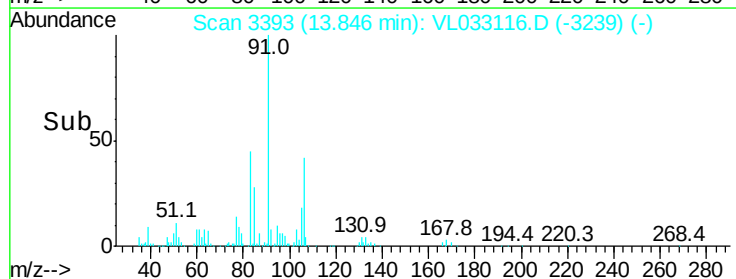
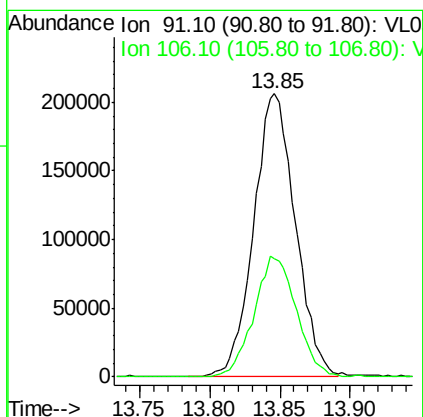
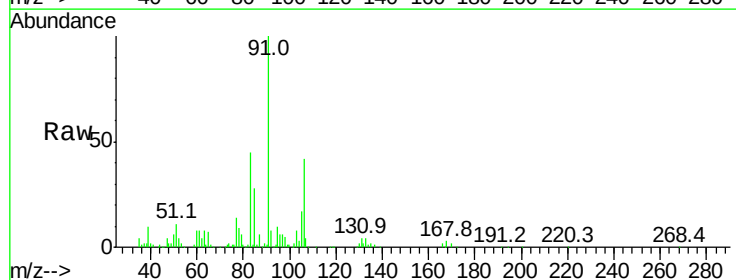
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

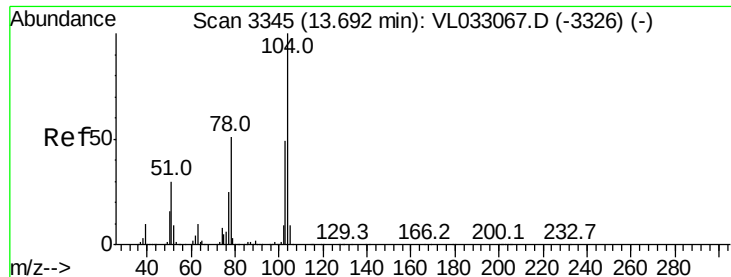
Tgt Ion: 91 Resp: 253448
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 1.147 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

Tgt Ion: 91 Resp: 423351
Ion Ratio Lower Upper
91 100
106 43.8 22.6 67.8





#61

Styrene

Concen: 1.036 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

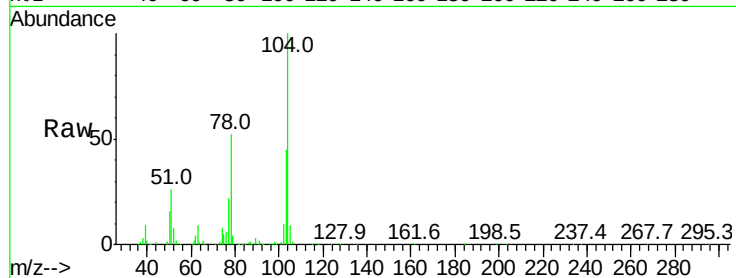
Tgt Ion:104 Resp: 244054

Ion Ratio Lower Upper

104 100

78 53.7 41.4 62.0

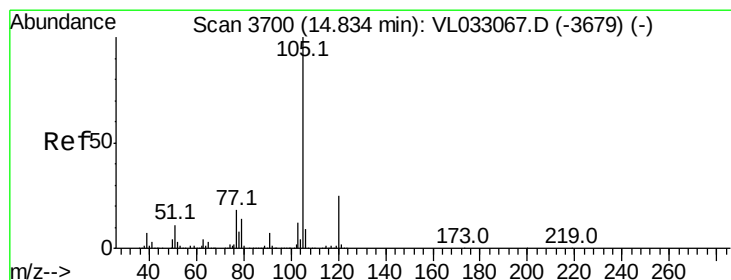
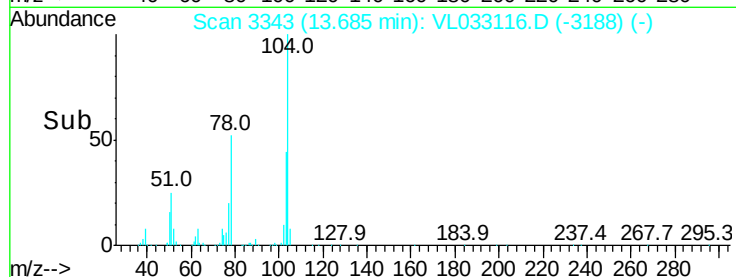
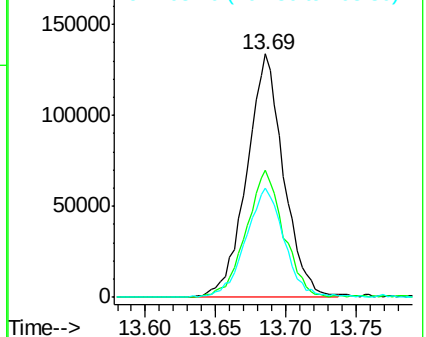
103 47.1 37.8 56.6



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



#62

Isopropylbenzene

Concen: 1.144 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL033116.D

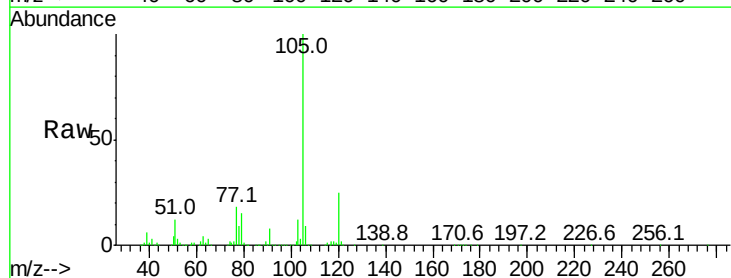
Acq: 28 Jan 2019 16:59

Tgt Ion:105 Resp: 600617

Ion Ratio Lower Upper

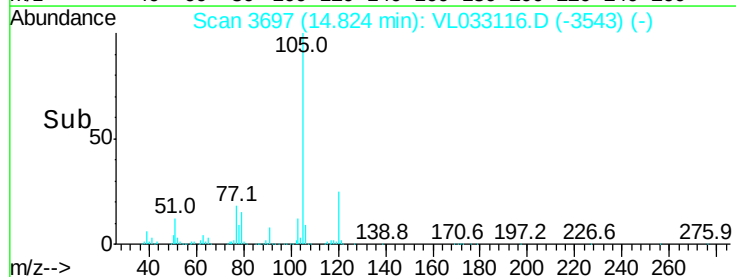
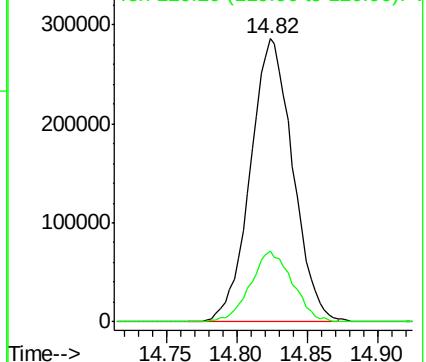
105 100

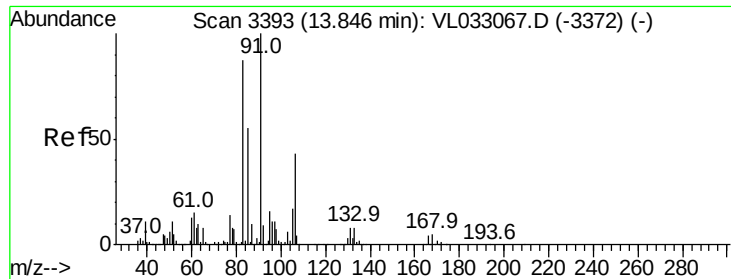
120 25.0 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

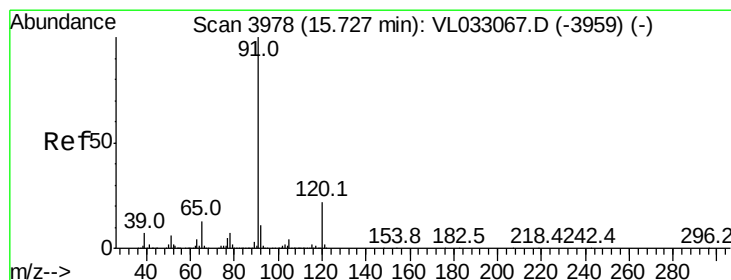
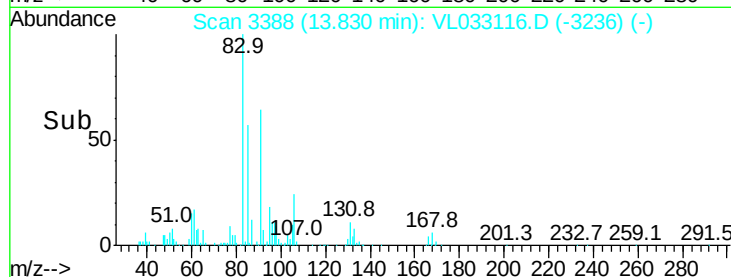
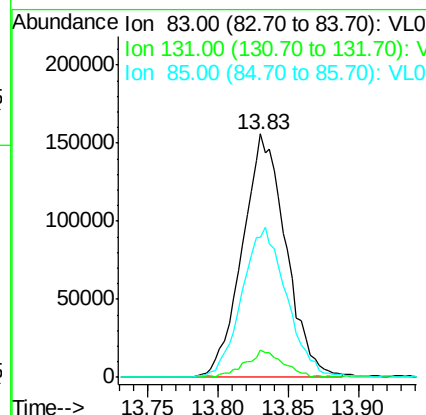
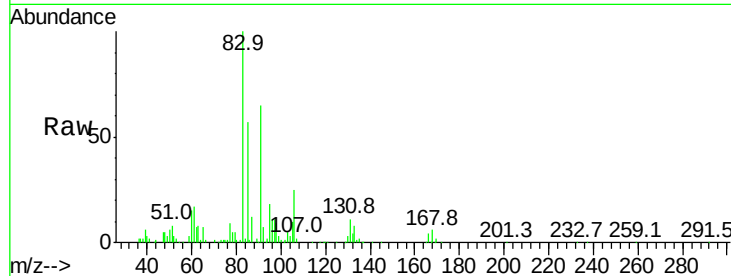




#63
1,1,2,2-Tetrachloroethane
Concen: 1.213 ppbv
RT: 13.83 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

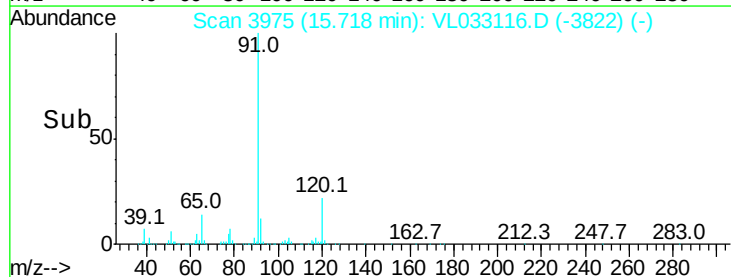
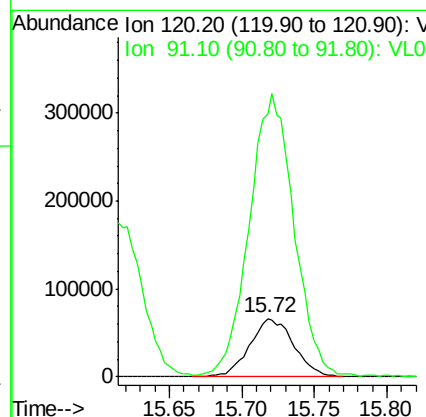
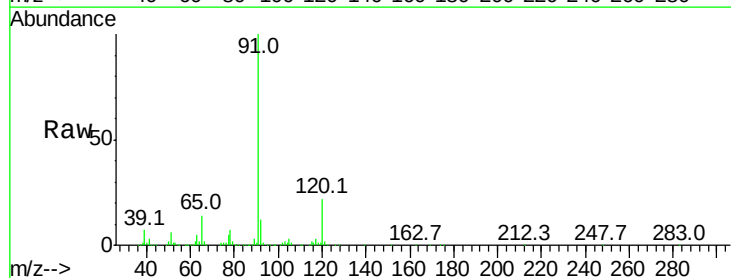
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

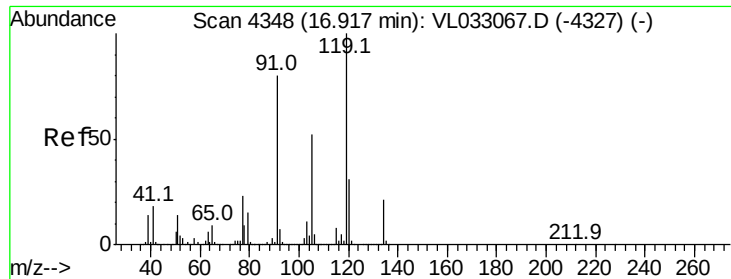
Tgt Ion: 83 Resp: 332513
Ion Ratio Lower Upper
83 100
131 10.1 4.9 14.6
85 64.5 32.5 97.4



#64
n-propylbenzene
Concen: 1.051 ppbv
RT: 15.72 min Scan# 3975
Delta R.T. -0.01 min
Lab File: VL033116.D
Acq: 28 Jan 2019 16:59

Tgt Ion: 120 Resp: 140195
Ion Ratio Lower Upper
120 100
91 492.3 375.7 563.5

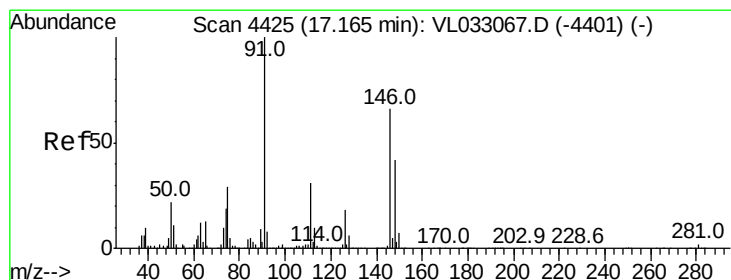
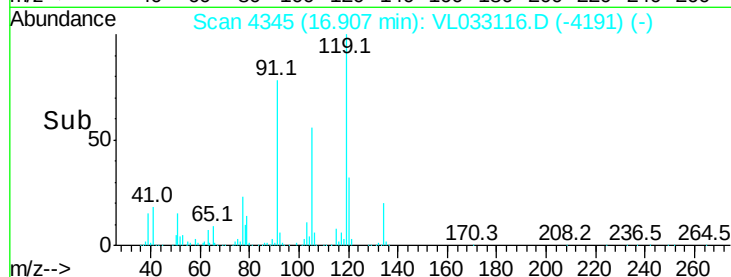
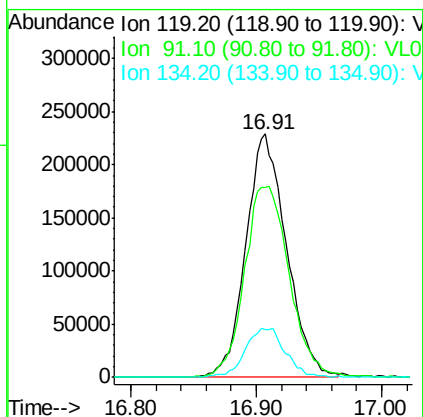
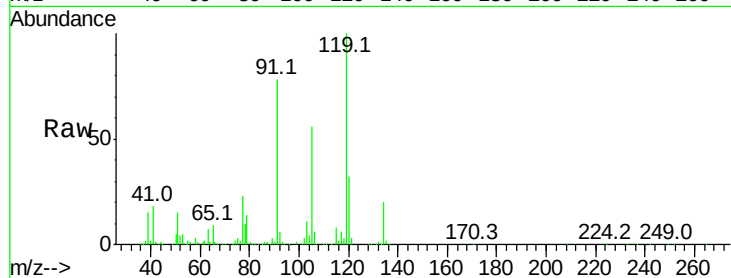




#65
 tert-Butylbenzene
 Concen: 1.108 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

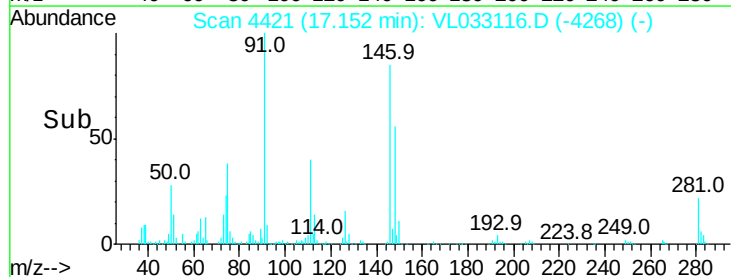
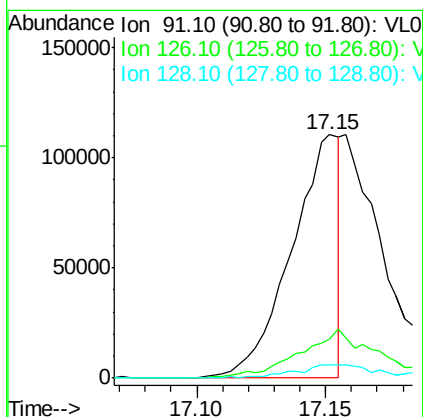
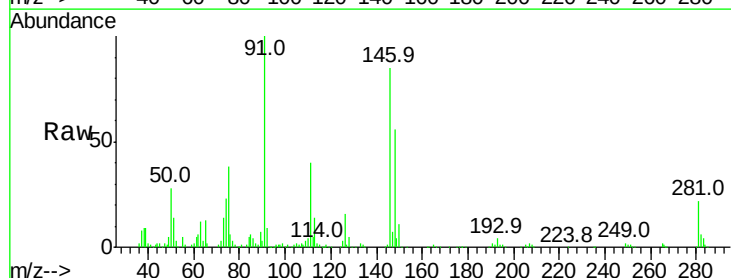
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

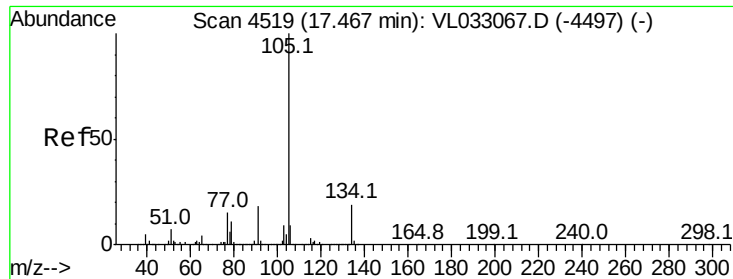
Tgt Ion: 119 Resp: 515593
 Ion Ratio Lower Upper
 119 100
 91 86.7 64.5 96.7
 134 19.9 15.7 23.5



#66
 Benzyl Chloride
 Concen: 0.540 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. -0.01 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Tgt Ion: 91 Resp: 143147
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.3 21.5#
 128 9.6 4.6 7.0#





#67

sec-Butylbenzene

Concen: 1.099 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

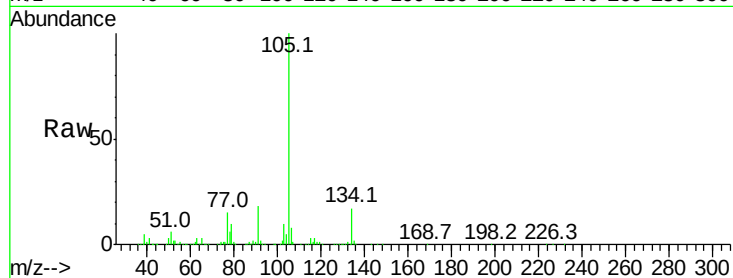
VSTDIC001

Tgt Ion:105 Resp: 731974

Ion Ratio Lower Upper

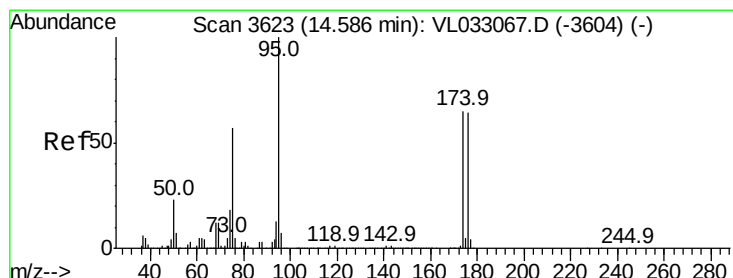
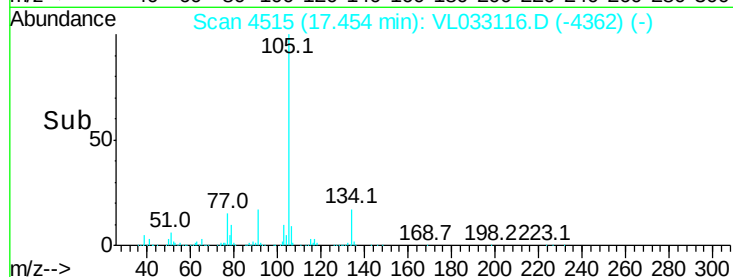
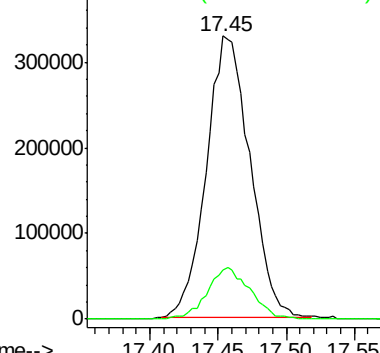
105 100

134 18.0 14.8 22.2



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: 10.841 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

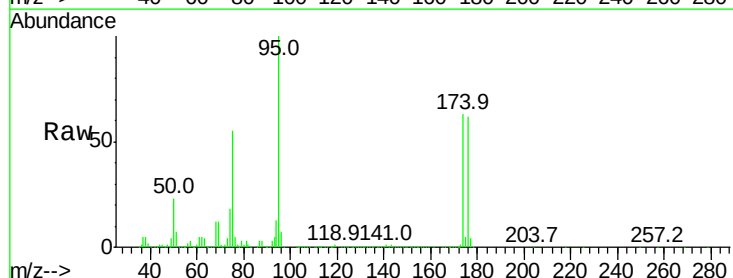
Tgt Ion: 95 Resp: 2682202

Ion Ratio Lower Upper

95 100

174 64.7 51.4 77.2

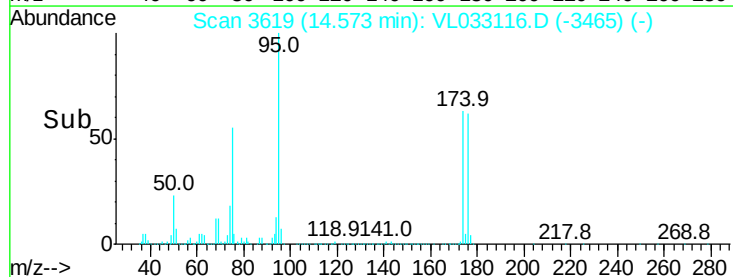
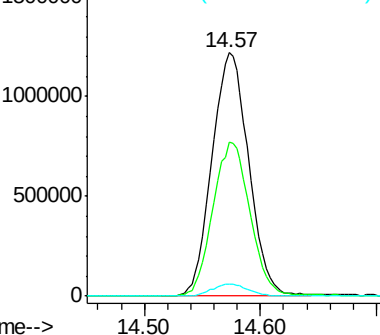
175 4.8 4.0 6.0

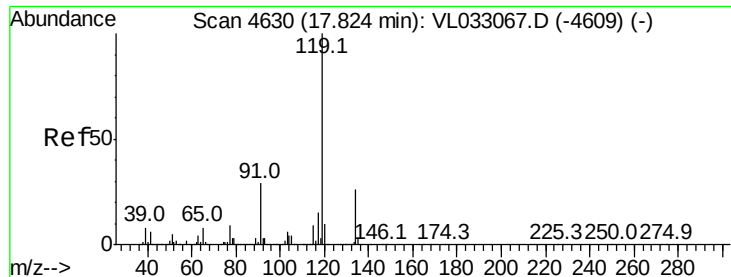


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 1.094 ppbv

RT: 17.81 min Scan# 4627

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

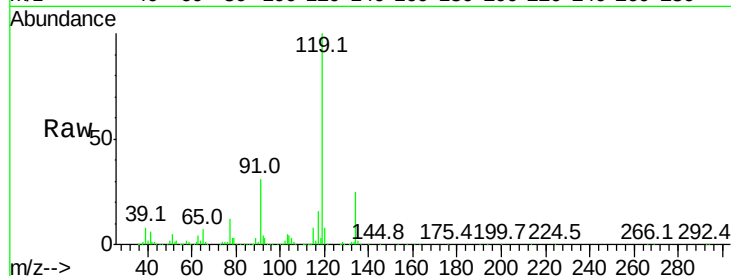
Tgt Ion: 119 Resp: 591252

Ion Ratio Lower Upper

119 100

134 24.8 20.4 30.6

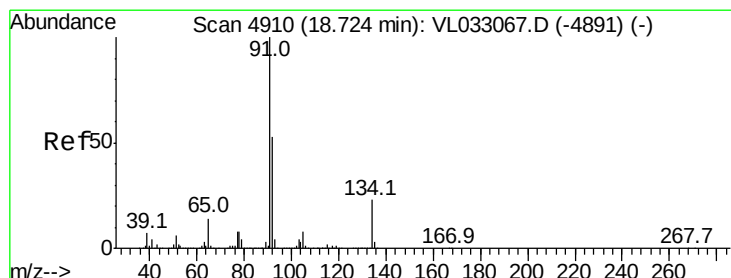
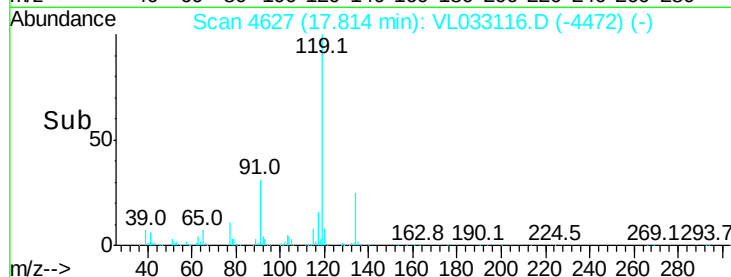
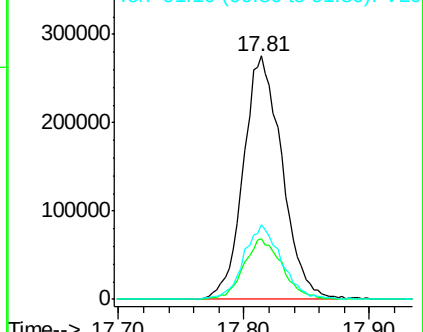
91 29.8 22.8 34.2



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: 1.066 ppbv

RT: 18.72 min Scan# 4908

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

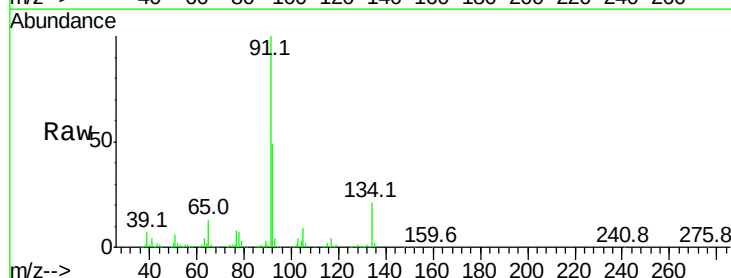
Tgt Ion: 91 Resp: 578858

Ion Ratio Lower Upper

91 100

92 51.7 43.0 64.6

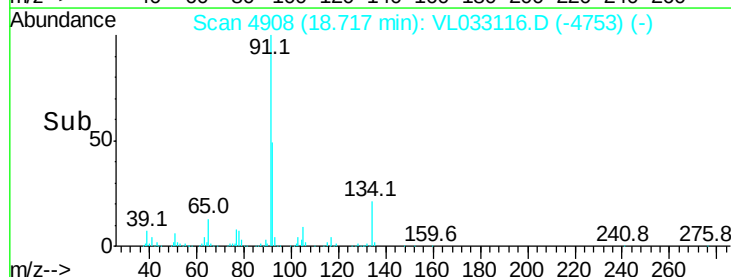
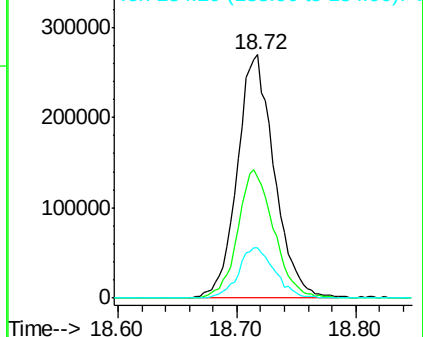
134 20.7 18.4 27.6

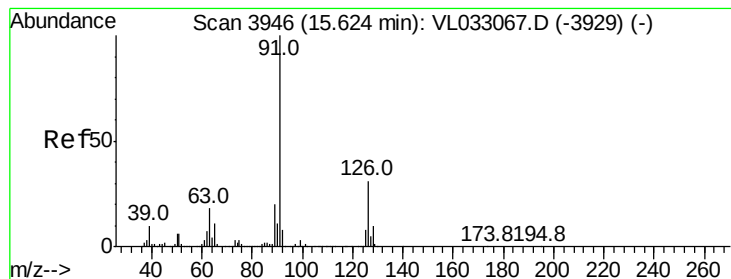


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.972 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

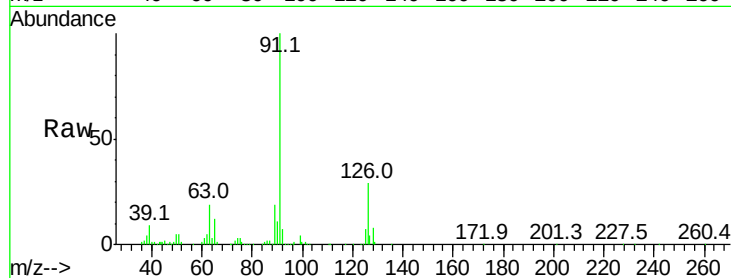
VSTDIC001

Tgt Ion: 91 Resp: 362192

Ion Ratio Lower Upper

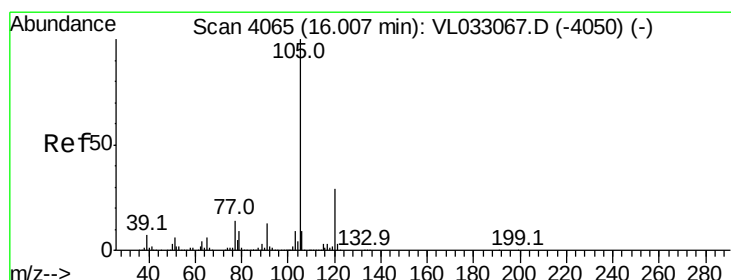
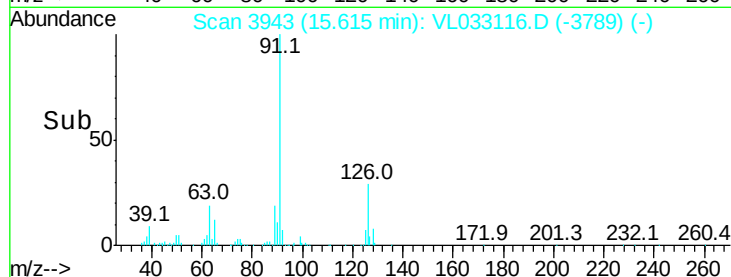
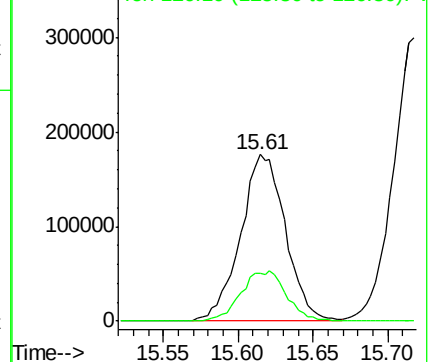
91 100

126 31.0 12.4 49.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 1.003 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Tgt Ion: 105 Resp: 406875

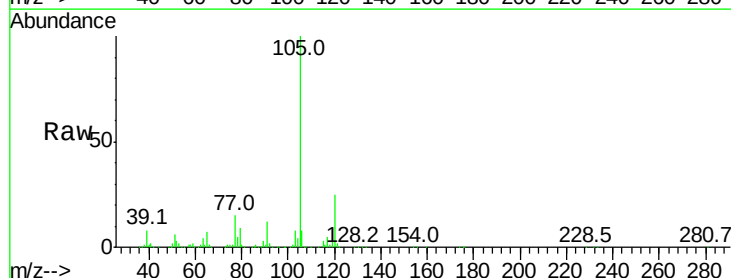
Ion Ratio Lower Upper

105 100

120 28.6 23.5 35.3

91 14.9 10.3 15.5

77 14.8 11.0 16.4

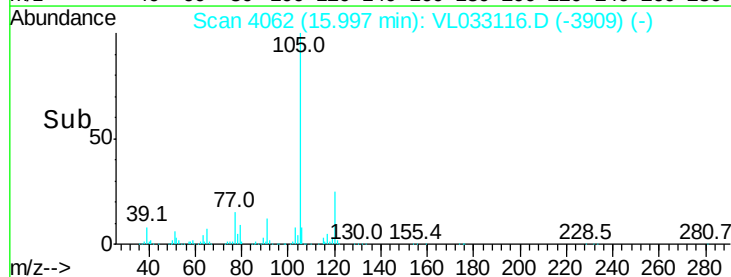
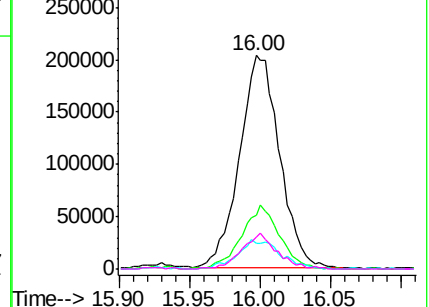


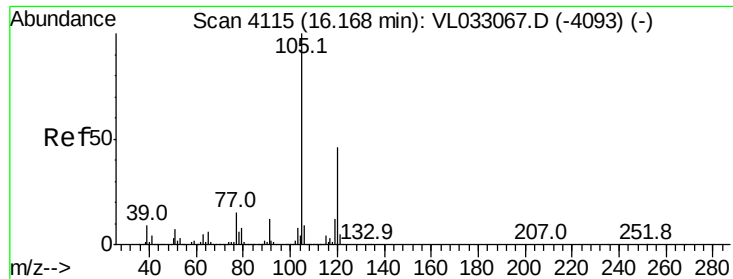
Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.070 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

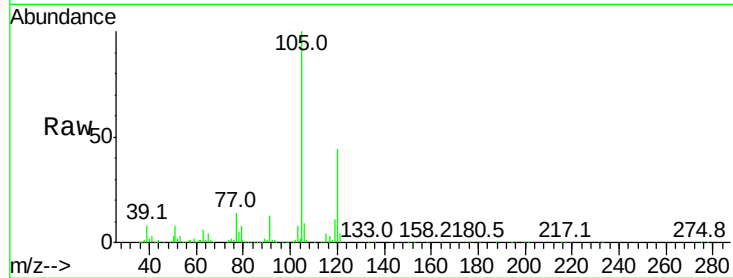
VSTDIC001

Tgt Ion:105 Resp: 428011

Ion Ratio Lower Upper

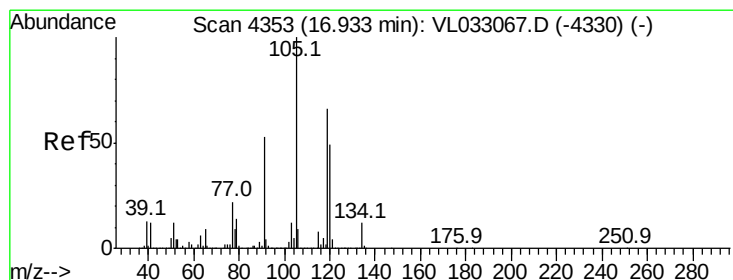
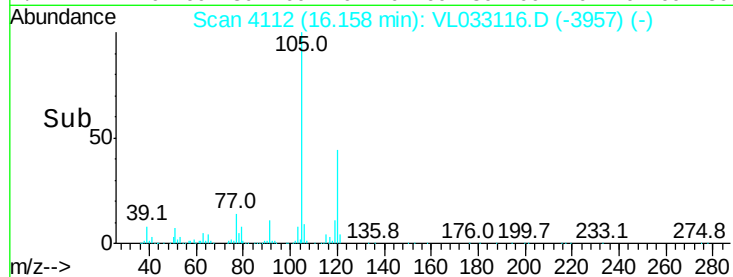
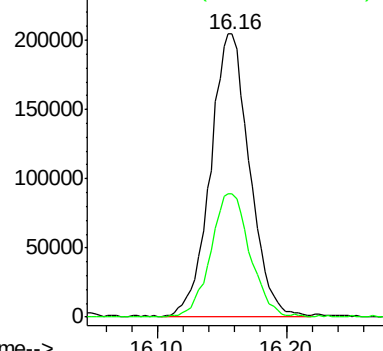
105 100

120 43.7 37.5 56.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.075 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Tgt Ion:105 Resp: 476306

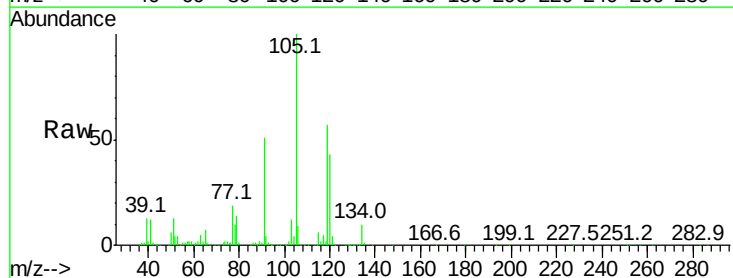
Ion Ratio Lower Upper

105 100

120 42.3 37.9 56.9

91 51.0 39.8 59.8

77 19.1 17.8 26.8

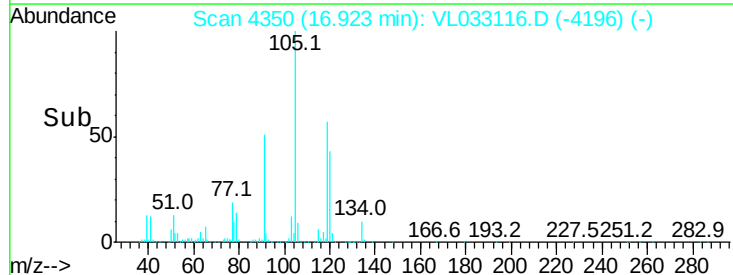
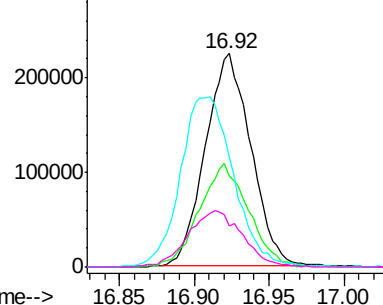


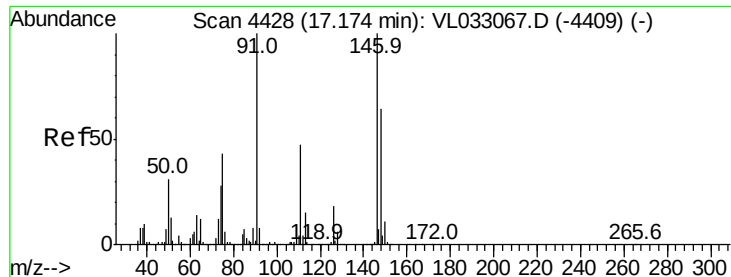
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

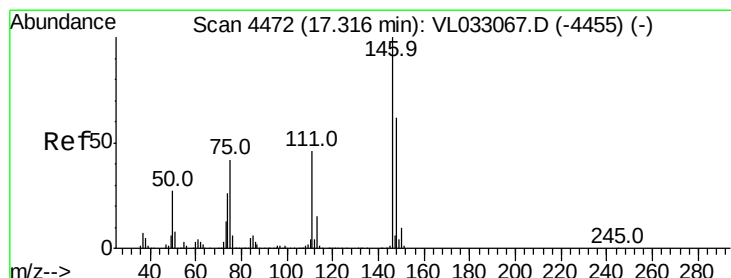
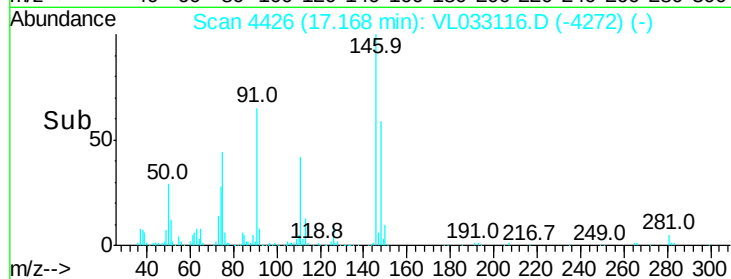
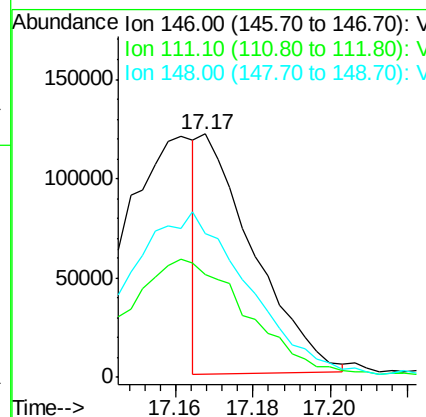
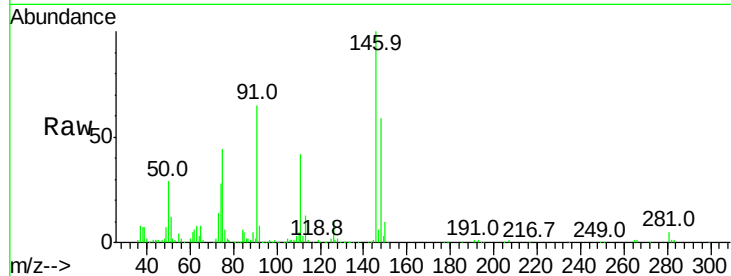




#75
 1,3-Dichlorobenzene
 Concen: 0.443 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

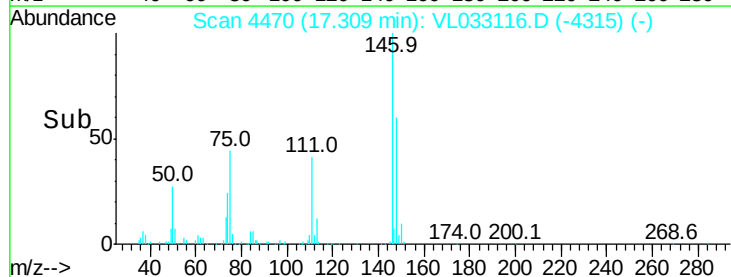
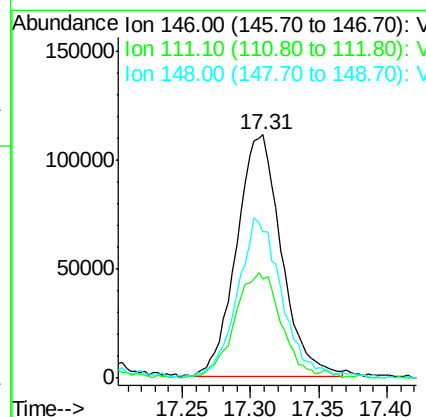
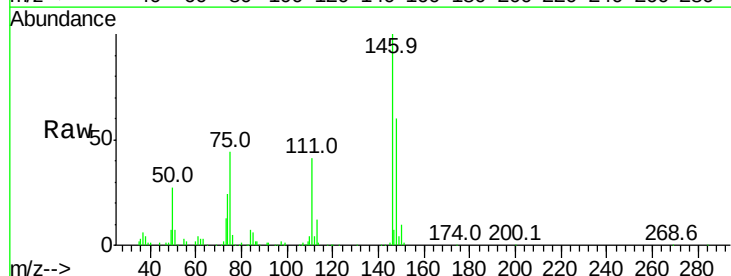
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

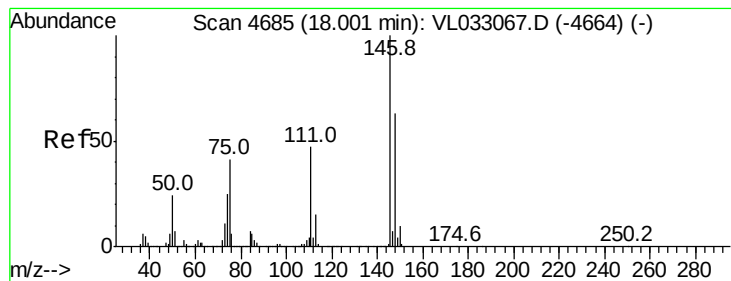
Tgt Ion:146 Resp: 115675
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.4 70.0#
 148 166.2 32.1 96.3#



#76
 1,4-Dichlorobenzene
 Concen: 1.072 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Tgt Ion:146 Resp: 254685
 Ion Ratio Lower Upper
 146 100
 111 46.5 22.7 68.0
 148 66.2 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 1.100 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

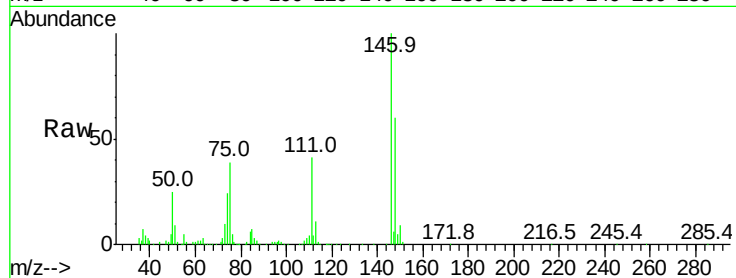
Tgt Ion:146 Resp: 258419

Ion Ratio Lower Upper

146 100

111 50.0 24.4 73.2

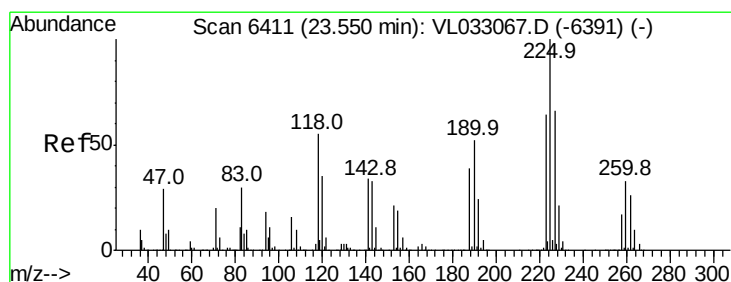
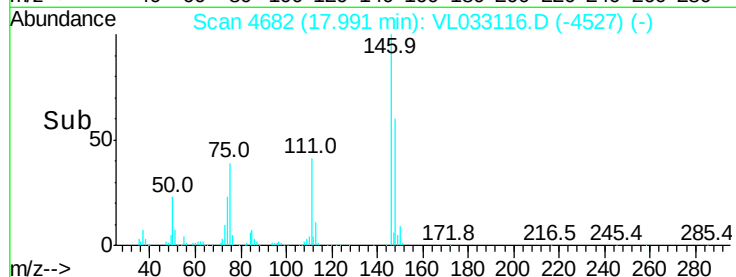
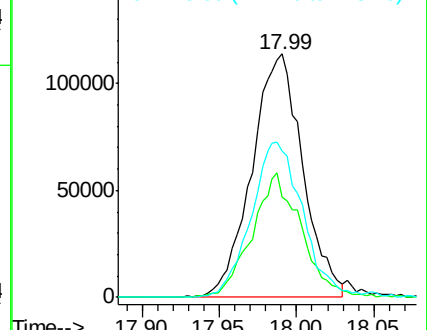
148 65.6 32.6 97.7



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: 0.854 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. -0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

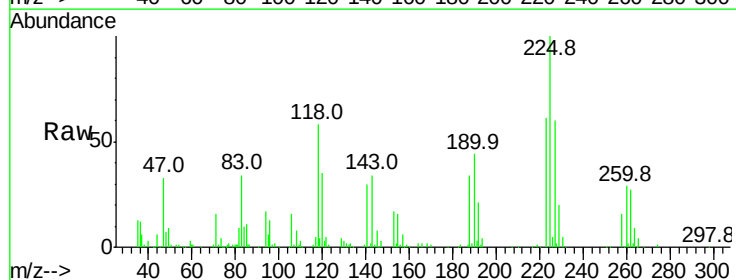
Tgt Ion:225 Resp: 154132

Ion Ratio Lower Upper

225 100

223 63.0 50.5 75.7

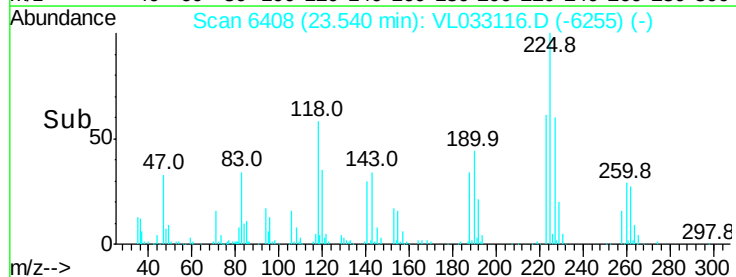
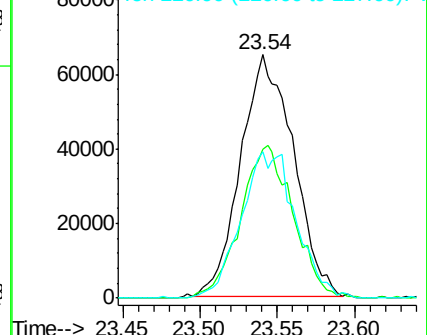
227 62.9 51.0 76.4

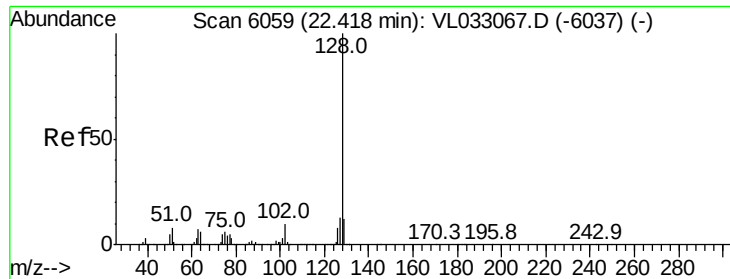


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.330 ppbv

RT: 22.41 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

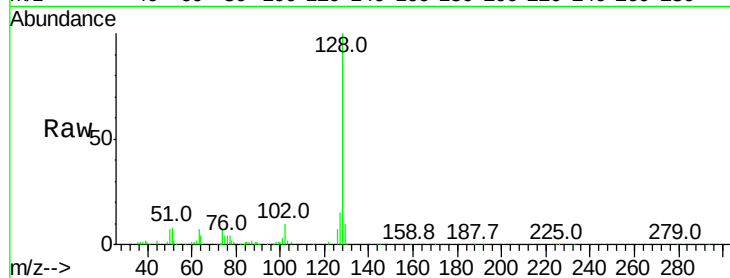
Tgt Ion:128 Resp: 123100

Ion Ratio Lower Upper

128 100

127 14.1 10.6 15.8

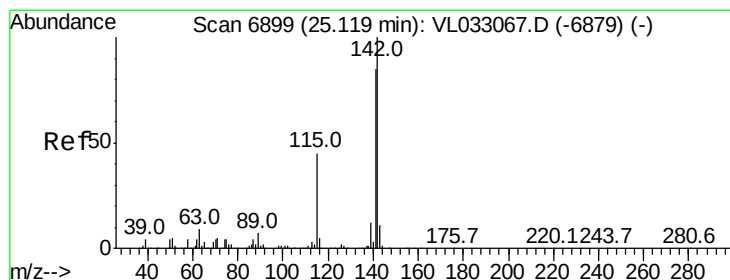
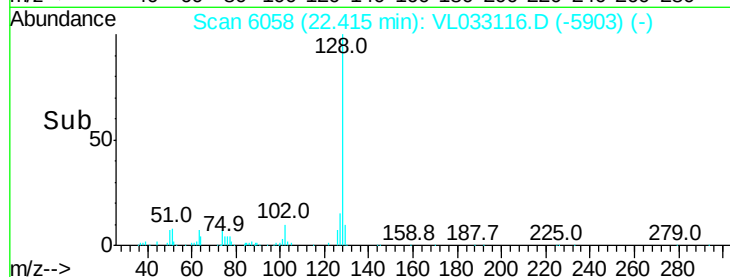
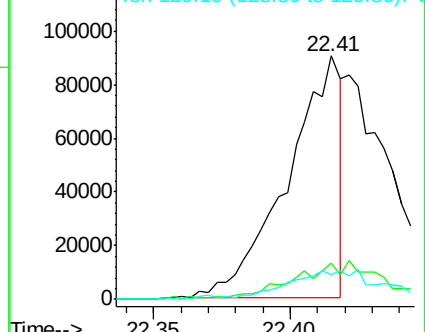
129 10.1 9.2 13.8



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: 0.232 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.01 min

Lab File: VL033116.D

Acq: 28 Jan 2019 16:59

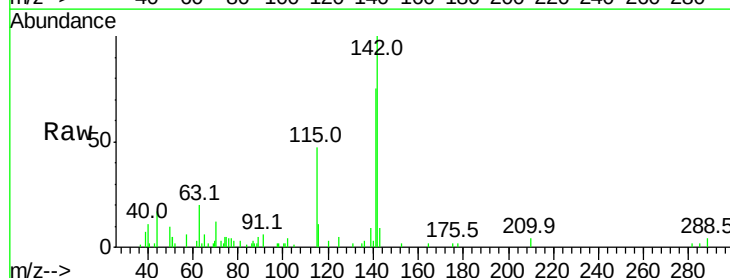
Tgt Ion:142 Resp: 26288

Ion Ratio Lower Upper

142 100

141 80.1 67.4 101.2

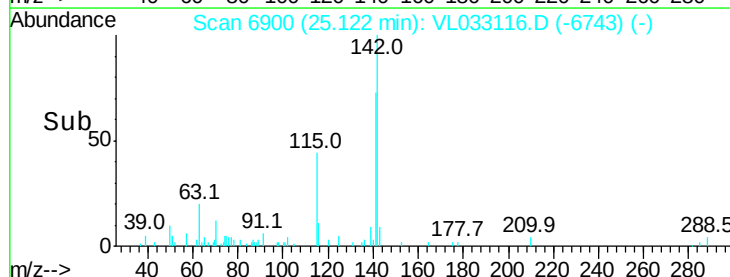
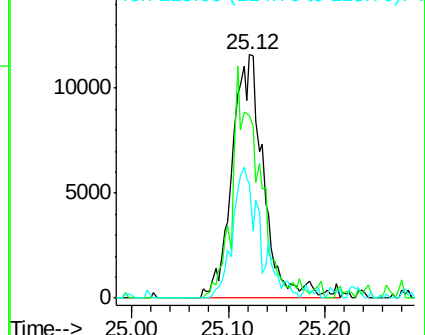
115 48.6 34.9 52.3

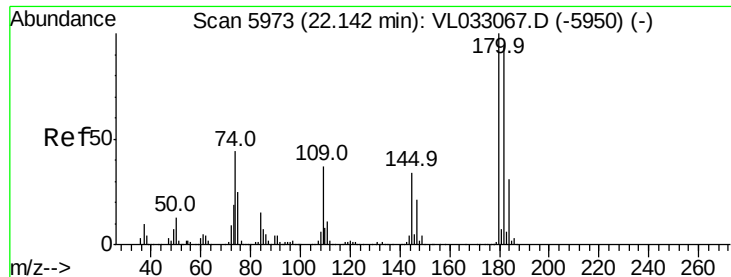


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.408 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033116.D
 Acq: 28 Jan 2019 16:59

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:180 Resp: 73603
 Ion Ratio Lower Upper
 180 100
 182 166.8 76.5 114.7#
 184 0.0 24.2 36.4#

