

Data File : VL033153.D
Acq On : 4 Feb 2019 11:57
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Feb 04 12:31:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 01 22:01:04 2019
QLast Update : Fri Feb 01 22:01:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1201371	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3421014	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3414295	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2653395	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	113800	0.632	ppbv	97
3) Chlorodifluoromethane	3.01	51	74048	0.383	ppbv	99
4) Chloromethane	3.17	50	41309	0.371	ppbv	93
5) Vinyl Chloride	3.29	62	38124	0.313	ppbv	98
6) Bromomethane	3.51	94	13680	0.255	ppbv #	80
7) Chloroethane	3.60	64	14152	0.431	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	95704	0.430	ppbv	97
9) Propene	3.03	41	38244	0.387	ppbv	98
10) Heptane	8.25	43	121964	0.663	ppbv	99
11) Trichlorofluoromethane	4.00	101	98301	0.518	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	62520	0.518	ppbv	98
13) Ethanol	3.65	45	21804	0.781	ppbv	88
14) Bromoethene	3.79	108	27996	0.459	ppbv	97
15) Acetone	3.91	43	87658	0.576	ppbv	94
16) 1,3-Butadiene	3.36	39	31197	0.427	ppbv	90
17) tert-Butyl alcohol	4.36	59	5671	0.154	ppbv #	73
18) 1,1-Dichloroethene	4.35	96	28777	0.494	ppbv	81
19) Isopropyl Alcohol	4.04	45	60921	0.523	ppbv #	47
20) Methylene Chloride	4.41	84	30519	0.518	ppbv	93
21) Allyl Chloride	4.48	41	23420	0.239	ppbv #	17
22) trans-1,2-Dichloroethene	4.96	96	16104	0.296	ppbv	98
23) Vinyl Acetate	5.16	43	121806	0.461	ppbv #	93
24) 1,1-Dichloroethane	5.09	63	88430	0.501	ppbv	99
25) Ethyl Acetate	5.77	43	158806	0.487	ppbv	99
26) Hexane	5.78	57	75951	0.476	ppbv	98
27) Carbon Disulfide	4.62	76	59377	0.460	ppbv #	83
28) Methyl tert-Butyl Ether	5.12	73	107237	0.467	ppbv	99
29) Chloroform	5.84	83	104179	0.483	ppbv	94
30) Cyclohexane	7.24	84	74761	0.604	ppbv	93
31) cis-1,2-Dichloroethene	5.64	61	69319	0.475	ppbv	92
32) 1,1,1-Trichloroethane	6.62	97	97938	0.440	ppbv #	82
34) 2-Butanone	5.33	43	109917	0.420	ppbv	97
35) Carbon Tetrachloride	7.13	117	112337	0.438	ppbv	93
36) Benzene	7.00	78	186843	0.487	ppbv	98
37) 1,2-Dichloroethane	6.41	62	81421	0.417	ppbv	99
38) Trichloroethene	7.95	130	67499	0.437	ppbv	93
39) 1,2-Dichloropropane	7.73	63	47284	0.336	ppbv	91
40) 1,4-Dioxane	7.98	88	8677	0.175	ppbv #	1
41) Tetrahydrofuran	6.17	42	62420	0.397	ppbv	98
42) Bromodichloromethane	7.91	83	129911	0.467	ppbv	95
43) Methyl Methacrylate	8.14	69	37457	0.279	ppbv #	1

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Quant Time: Feb 04 12:31:23 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 01 22:01:04 2019

QLast Update : Fri Feb 01 22:01:04 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	166363	0.269	ppbv #	47
45) t-1,3-Dichloropropene	9.42	75	68041	0.419	ppbv	90
46) cis-1,3-Dichloropropene	8.83	75	90648	0.466	ppbv	91
47) 1,1,2-Trichloroethane	9.61	97	68201	0.532	ppbv #	91
48) Dibromochloromethane	10.45	129	90826	0.425	ppbv	100
49) Bromoform	13.19	173	40851	0.230	ppbv #	41
50) 4-Methyl-2-Pentanone	8.88	43	201907	0.594	ppbv	98
51) 2-Hexanone	10.29	43	75616	0.250	ppbv #	16
52) Tetrachloroethene	11.37	164	62648	0.430	ppbv	91
53) Toluene	9.95	91	198246	0.451	ppbv	100
54) 1,2-Dibromoethane	10.75	107	102931	0.427	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.28	131	78568	0.517	ppbv #	1
57) Chlorobenzene	12.30	112	157862	0.525	ppbv #	91
58) Ethyl Benzene	12.86	91	295033	0.527	ppbv	95
59) m/p-Xylene	13.12	91	241894	0.530	ppbv #	30
60) o-Xylene	13.85	91	238428	0.540	ppbv	97
61) Styrene	13.69	104	170759	0.504	ppbv	97
62) Isopropylbenzene	14.82	105	344047	0.548	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.83	83	172799	0.518	ppbv	99
64) n-propylbenzene	15.72	120	86909	0.540	ppbv	84
65) tert-Butylbenzene	16.91	119	304972	0.577	ppbv	94
66) Benzyl Chloride	17.16	91	18935	0.080	ppbv #	11
67) sec-Butylbenzene	17.46	105	429078	0.572	ppbv	100
69) p-Isopropyltoluene	17.82	119	357155	0.604	ppbv	97
70) n-Butylbenzene	18.72	91	403296	0.670	ppbv	96
71) 2-Chlorotoluene	15.61	91	266380	0.557	ppbv	98
72) 4-Ethyltoluene	16.00	105	273728	0.553	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	267977	0.600	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	280867	0.639	ppbv #	92
75) 1,3-Dichlorobenzene	17.17	146	154312	0.589	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	83200	0.318	ppbv #	30
77) 1,2-Dichlorobenzene	17.98	146	153796	0.609	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	33302	0.284	ppbv #	17
79) Naphthalene	22.41	128	171681	0.595	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	171986	2.022	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	150067	0.989	ppbv	100

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

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Misc : 400ml/MSVOA L

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

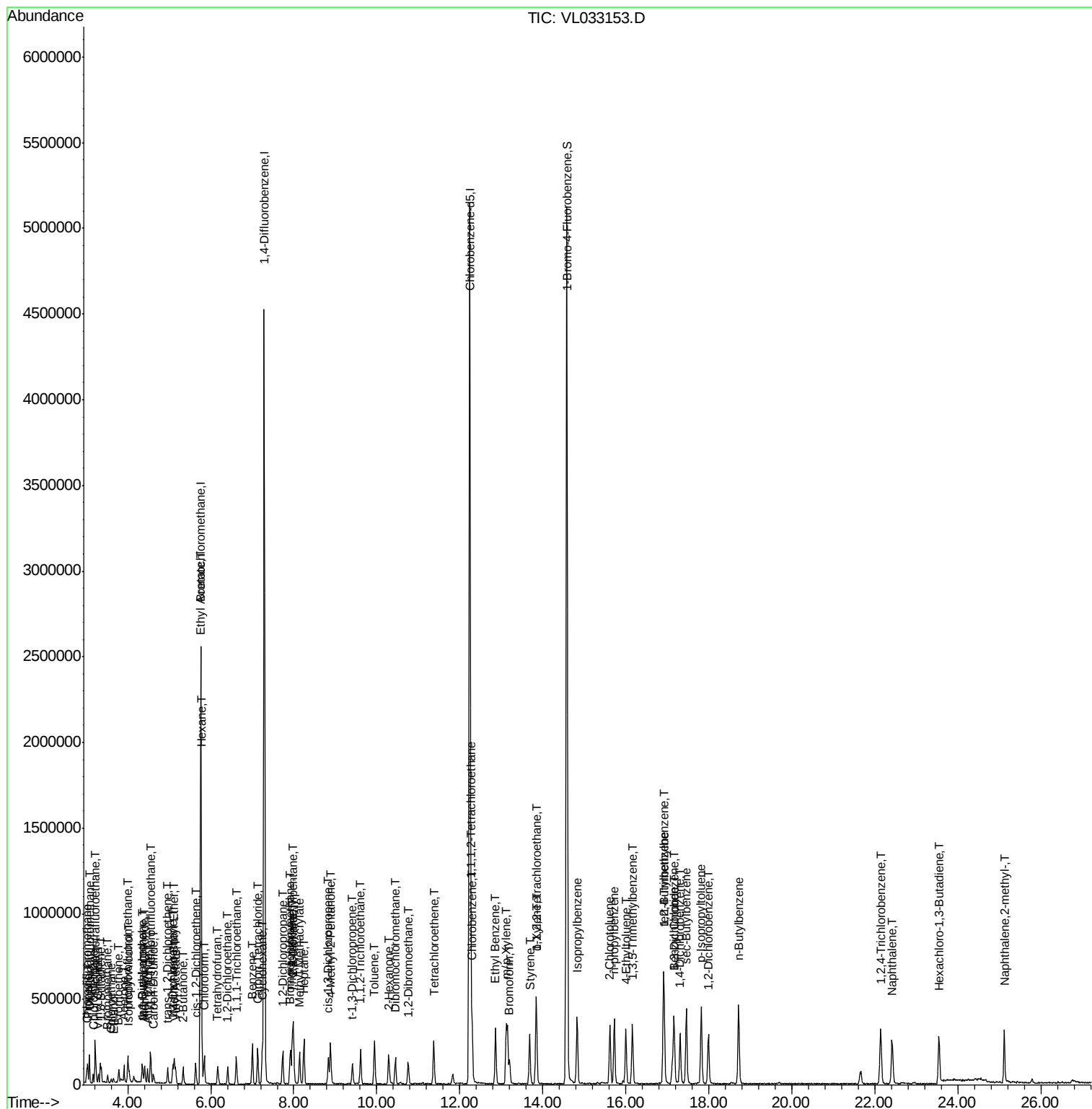
Quant Time: Feb 04 12:31:23 2019

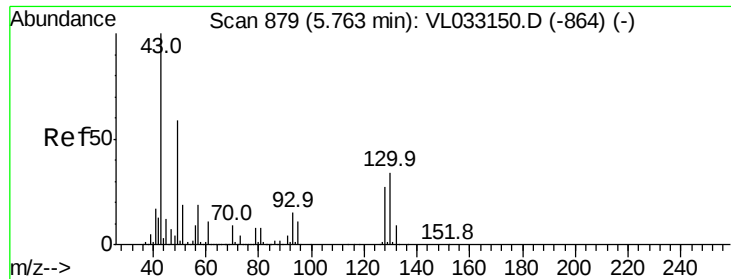
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL020419AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Feb 01 22:01:04 2019

QLast Update : Fri Feb 01 22:01:04 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

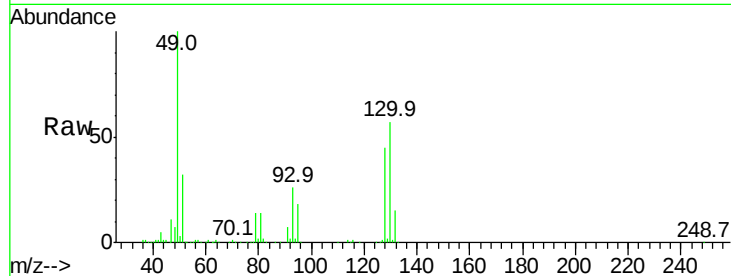
Tgt Ion: 49 Resp: 1201371

Ion Ratio Lower Upper

49 100

128 45.6 23.2 69.5

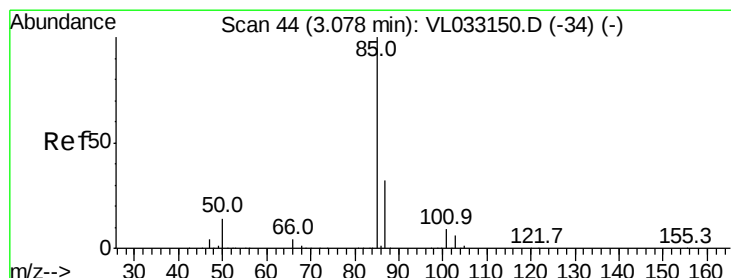
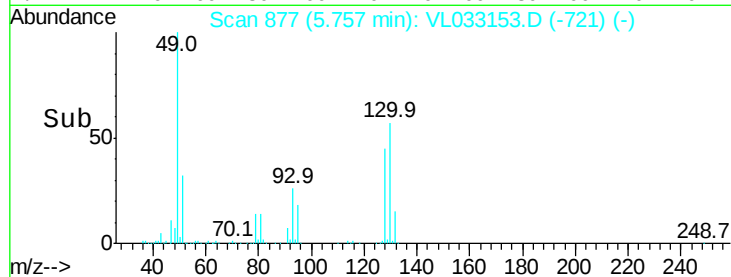
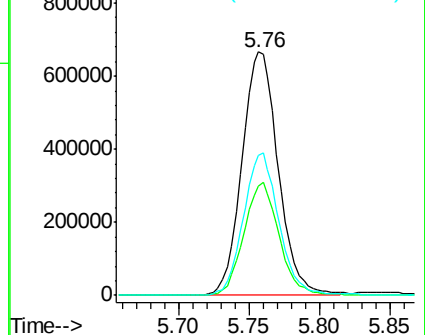
130 57.5 29.5 88.6



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: 0.632 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.00 min

Lab File: VL033153.D

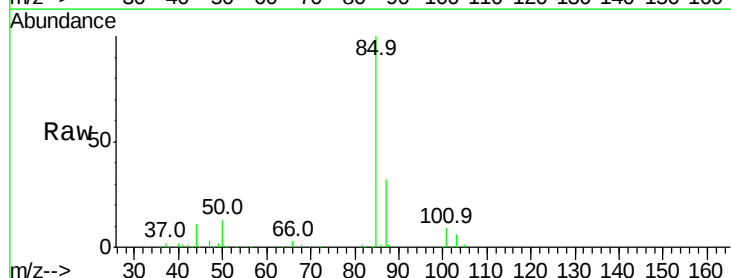
Acq: 4 Feb 2019 11:57

Tgt Ion: 85 Resp: 113800

Ion Ratio Lower Upper

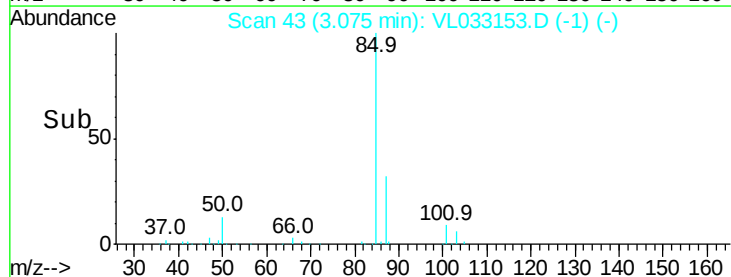
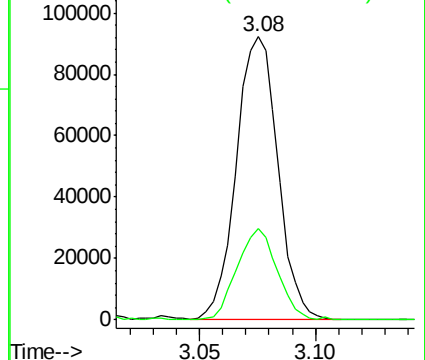
85 100

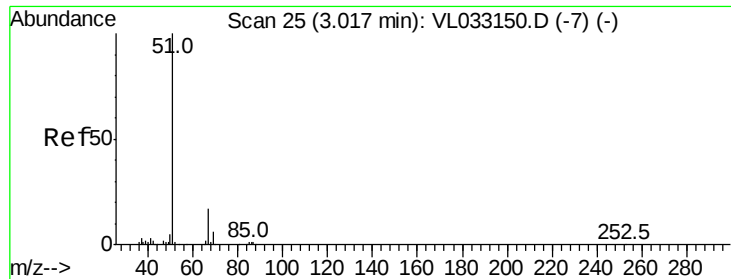
87 32.2 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.383 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

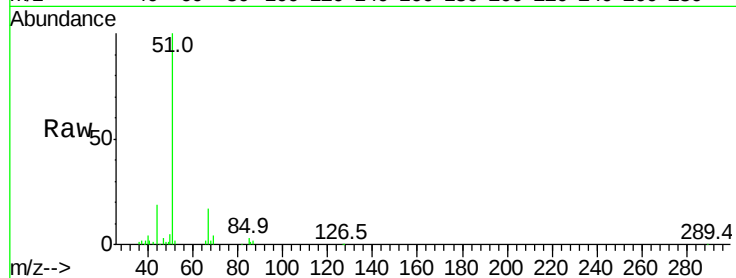
VSTDIC0.5

Tgt Ion: 51 Resp: 74048

Ion Ratio Lower Upper

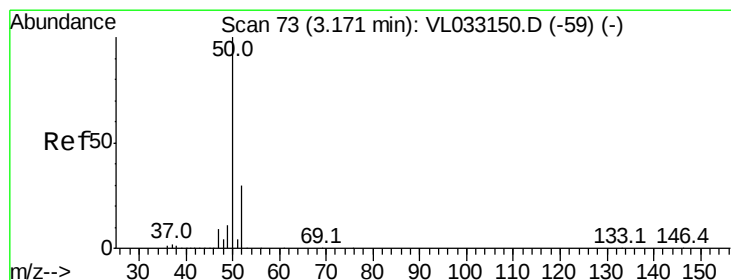
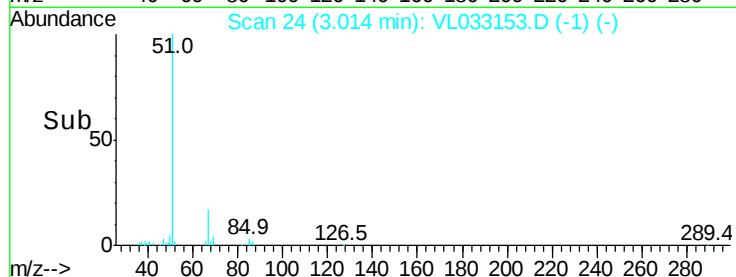
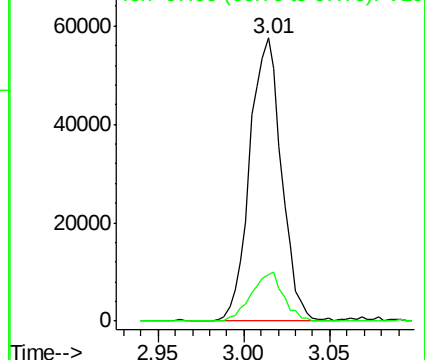
51 100

67 17.3 13.4 20.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.371 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033153.D

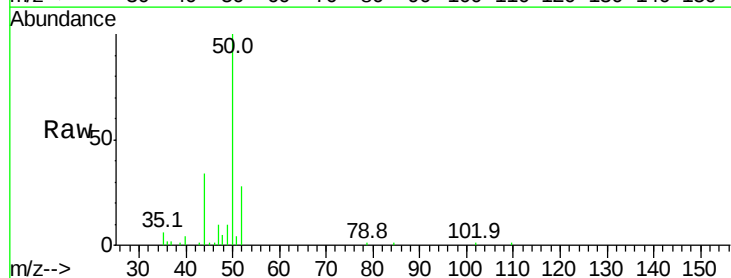
Acq: 4 Feb 2019 11:57

Tgt Ion: 50 Resp: 41309

Ion Ratio Lower Upper

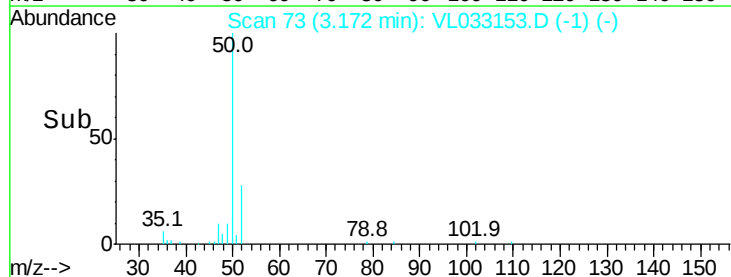
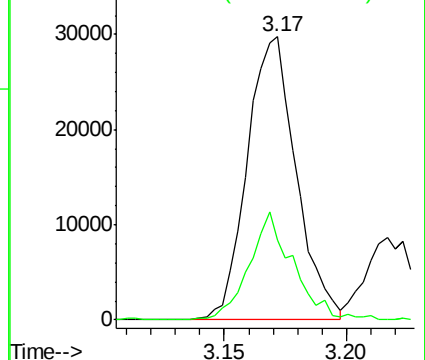
50 100

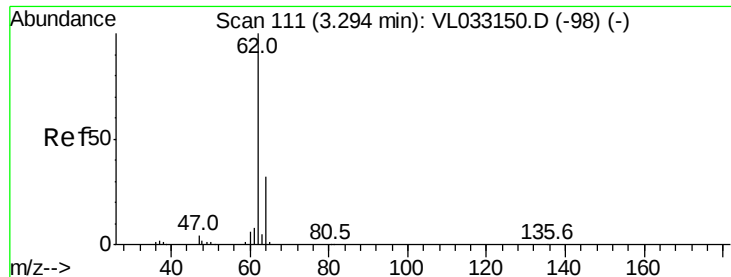
52 28.3 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.313 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

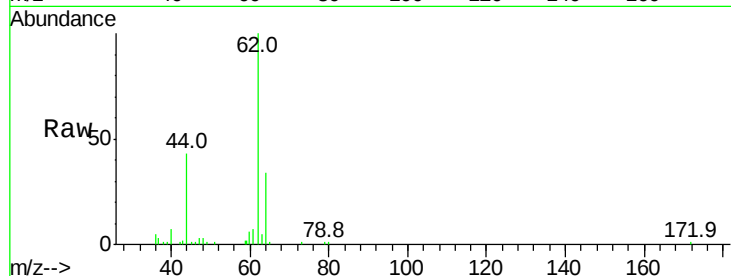
VSTDIC0.5

Tgt Ion: 62 Resp: 38124

Ion Ratio Lower Upper

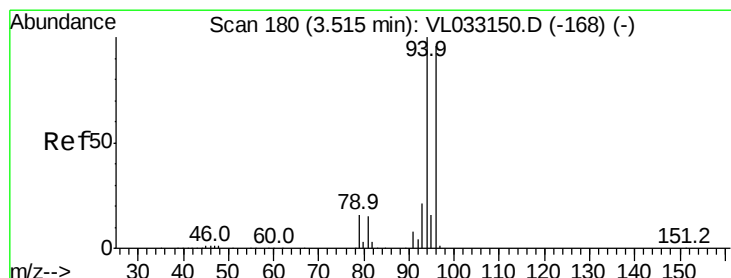
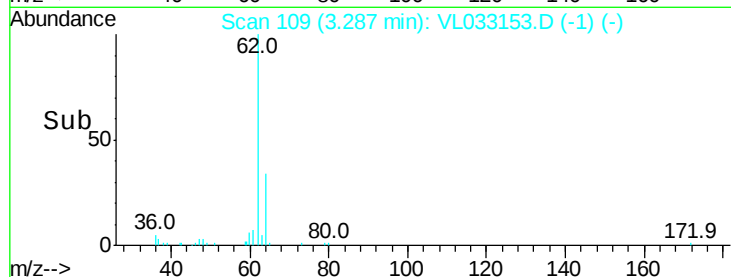
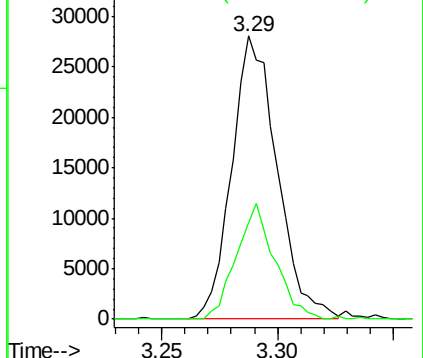
62 100

64 34.1 26.3 39.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.255 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033153.D

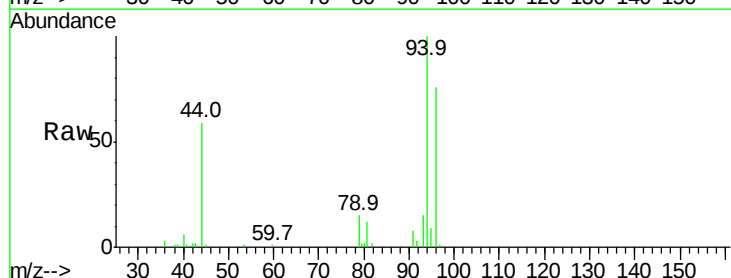
Acq: 4 Feb 2019 11:57

Tgt Ion: 94 Resp: 13680

Ion Ratio Lower Upper

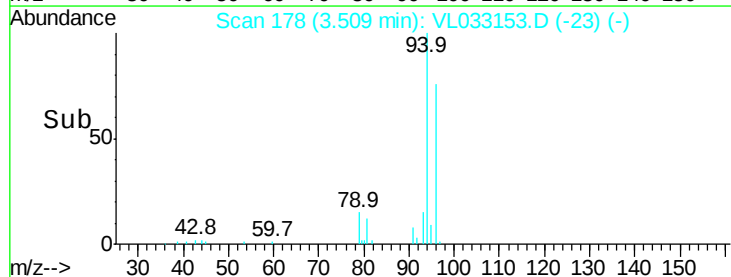
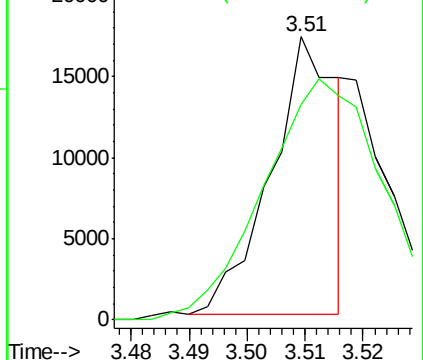
94 100

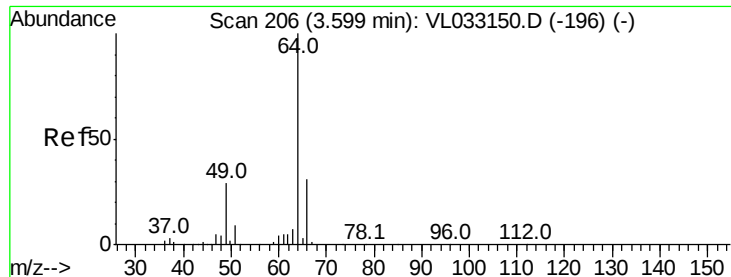
96 73.3 74.0 111.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.431 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

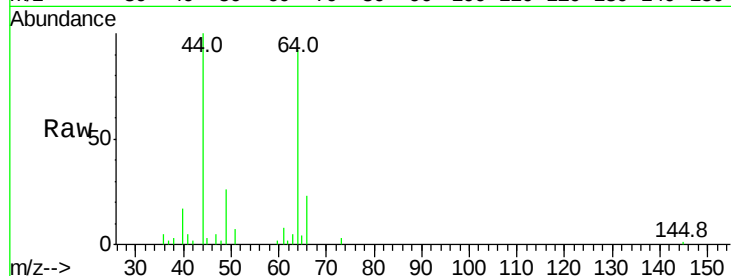
VSTDIC0.5

Tgt Ion: 64 Resp: 14152

Ion Ratio Lower Upper

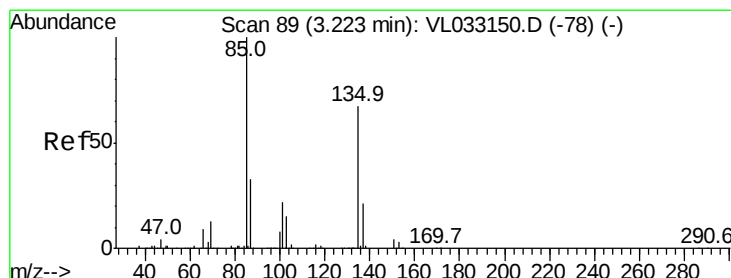
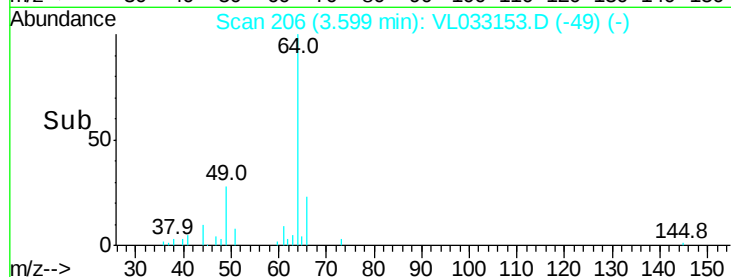
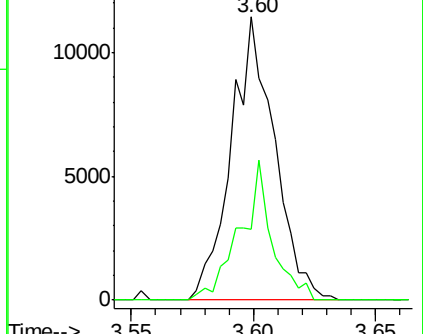
64 100

66 24.2 22.3 33.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.430 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033153.D

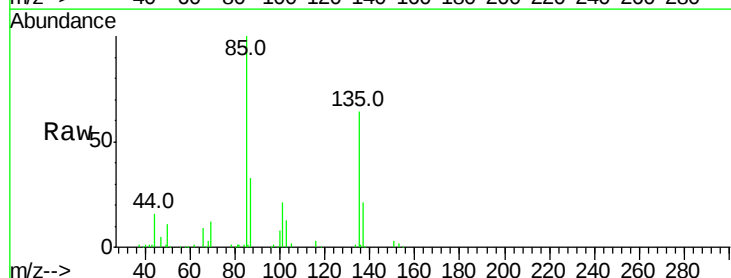
Acq: 4 Feb 2019 11:57

Tgt Ion: 85 Resp: 95704

Ion Ratio Lower Upper

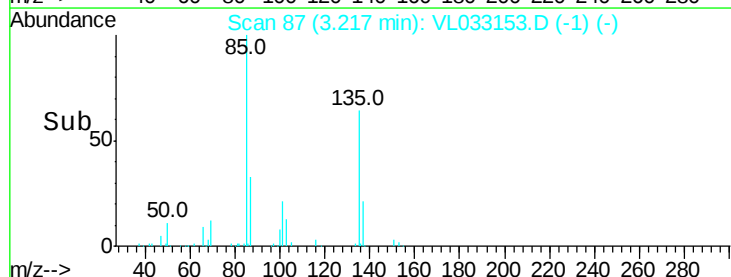
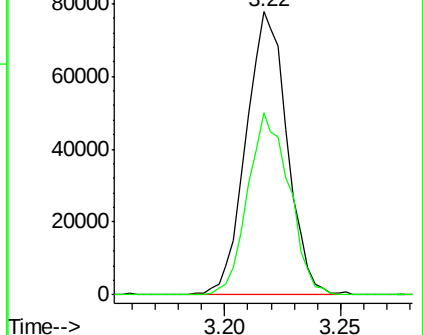
85 100

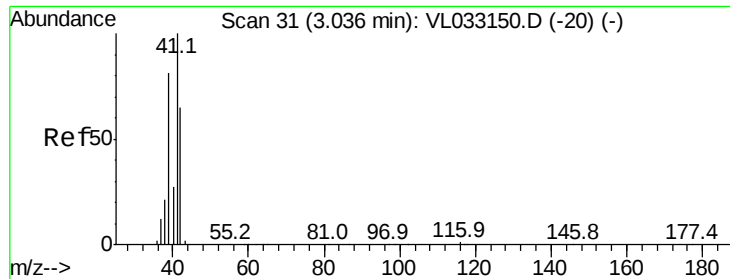
135 65.0 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.387 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

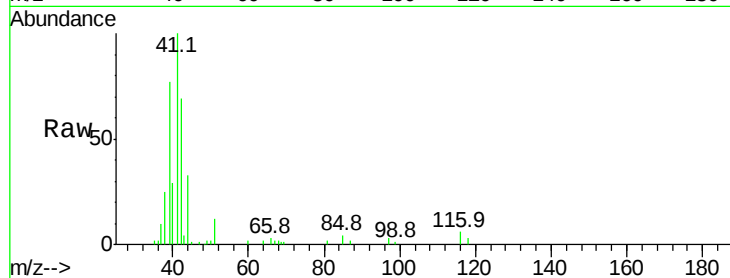
VSTDIC0.5

Tgt Ion: 41 Resp: 38244

Ion Ratio Lower Upper

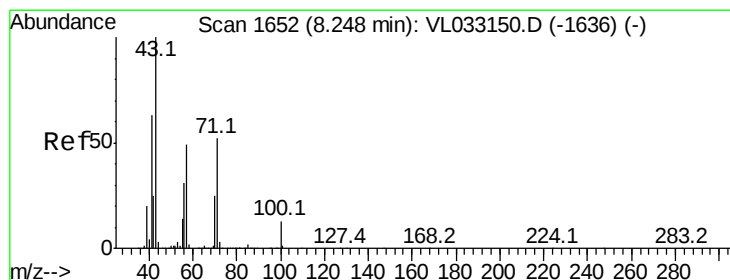
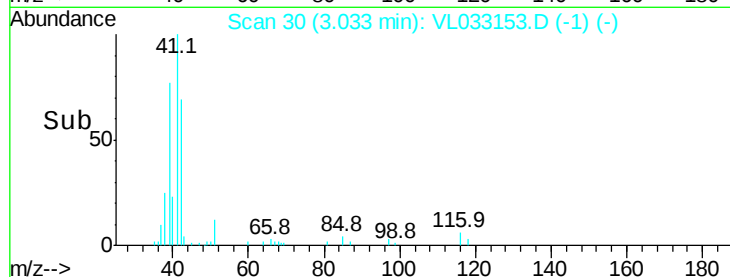
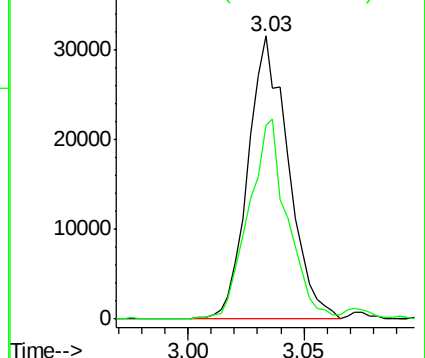
41 100

42 70.8 55.1 82.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.663 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033153.D

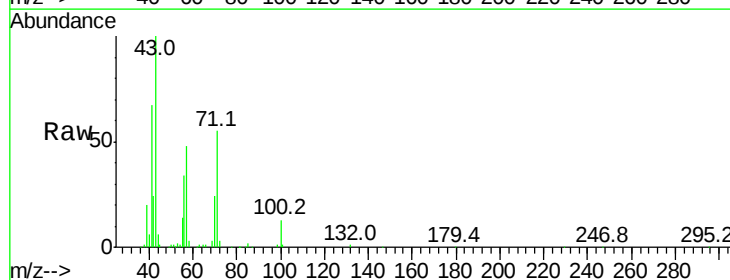
Acq: 4 Feb 2019 11:57

Tgt Ion: 43 Resp: 121964

Ion Ratio Lower Upper

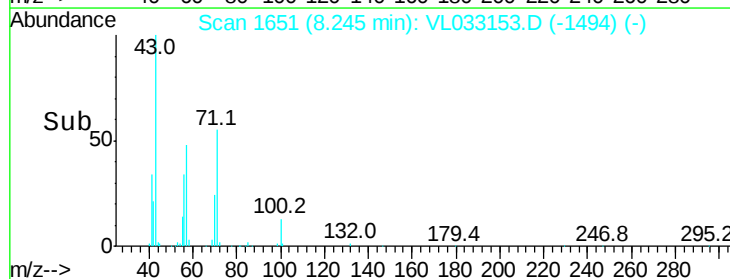
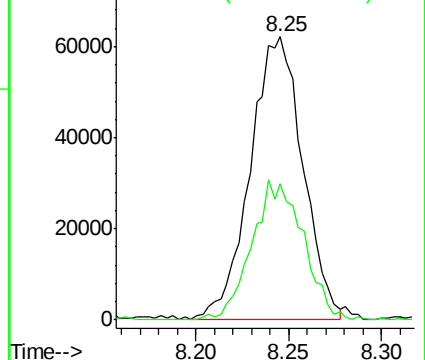
43 100

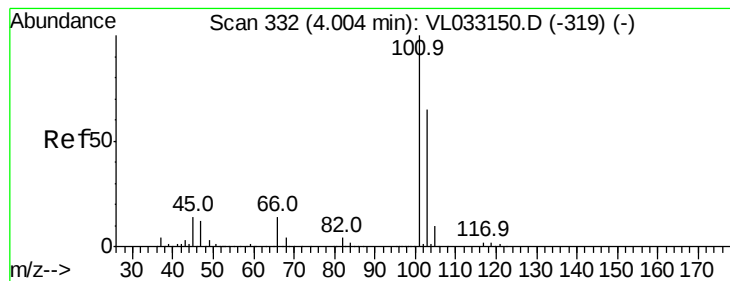
57 48.4 39.3 58.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.518 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

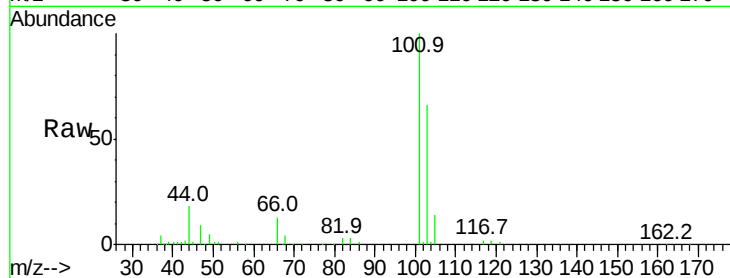
VSTDIC0.5

Tgt Ion:101 Resp: 98301

Ion Ratio Lower Upper

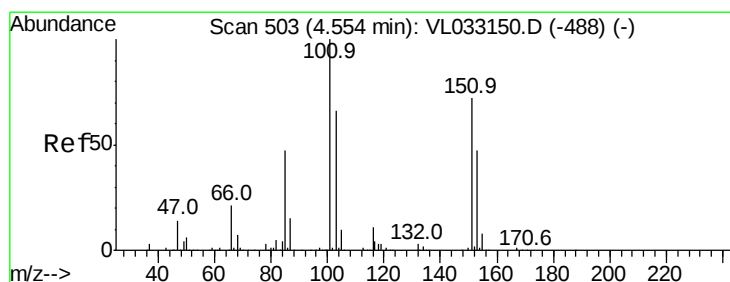
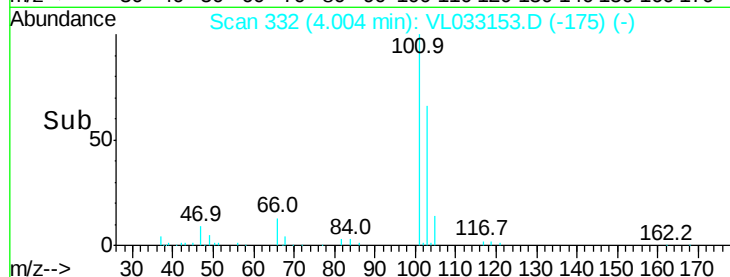
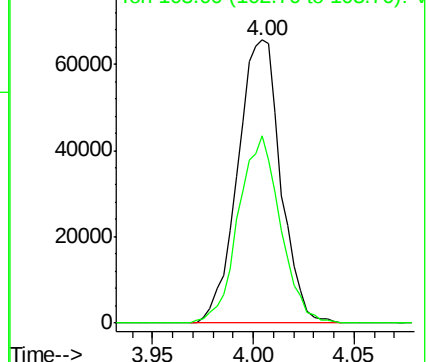
101 100

103 66.1 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.518 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL033153.D

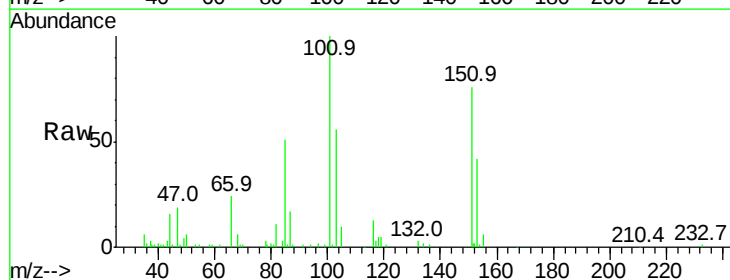
Acq: 4 Feb 2019 11:57

Tgt Ion:101 Resp: 62520

Ion Ratio Lower Upper

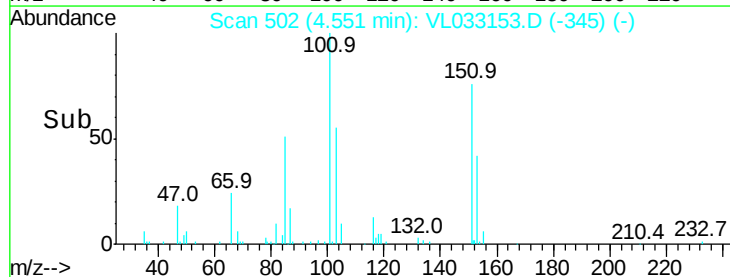
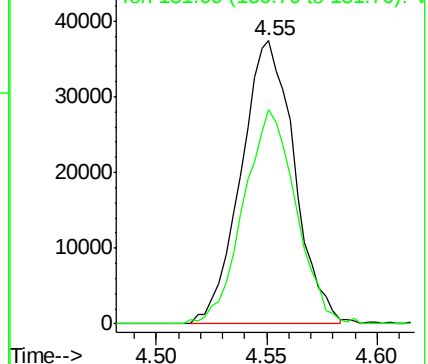
101 100

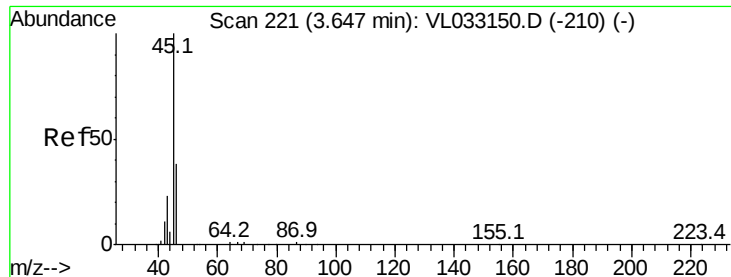
151 74.5 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.781 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

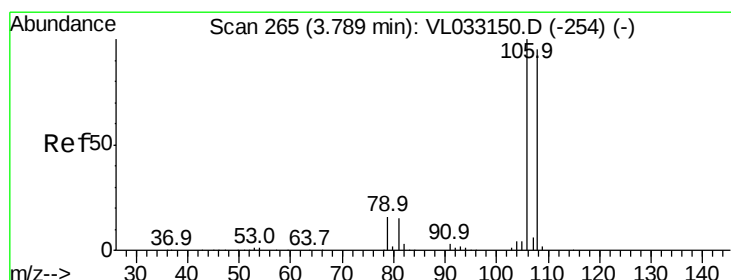
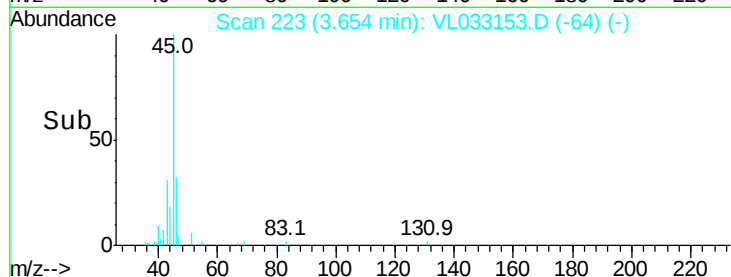
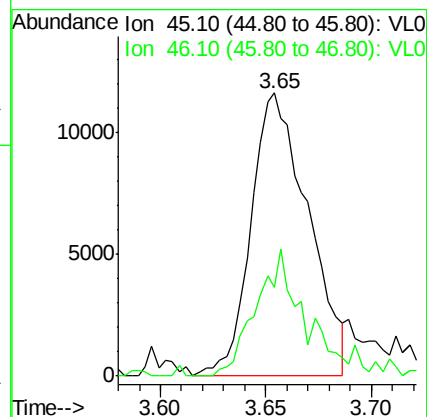
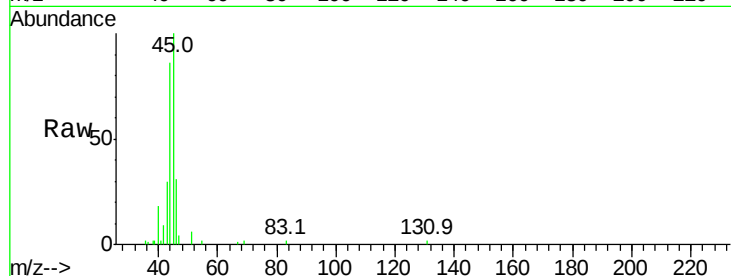
VSTDIC0.5

Tgt Ion: 45 Resp: 21804

Ion Ratio Lower Upper

45 100

46 42.3 14.0 56.2



#14

Bromoethene

Concen: 0.459 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

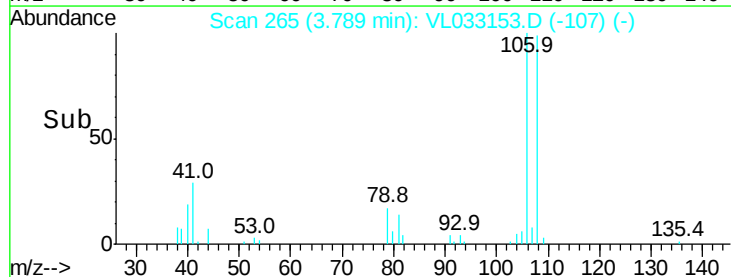
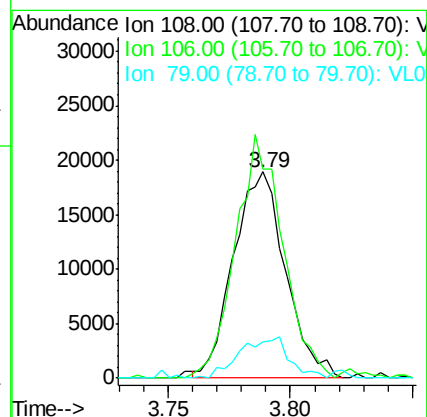
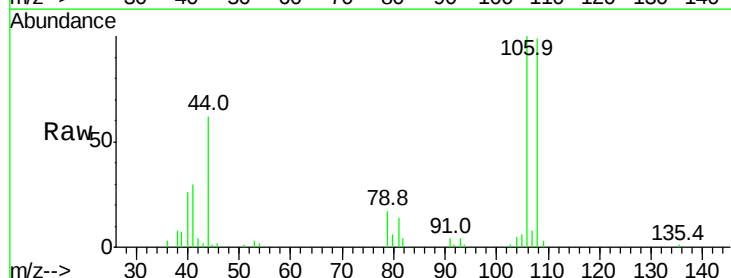
Tgt Ion: 108 Resp: 27996

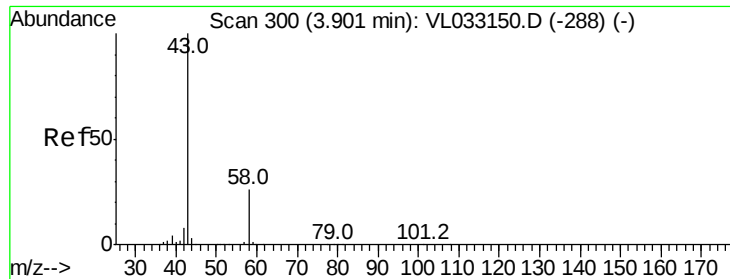
Ion Ratio Lower Upper

108 100

106 109.3 85.6 128.4

79 20.4 14.2 21.4





#15

Acetone

Concen: 0.576 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

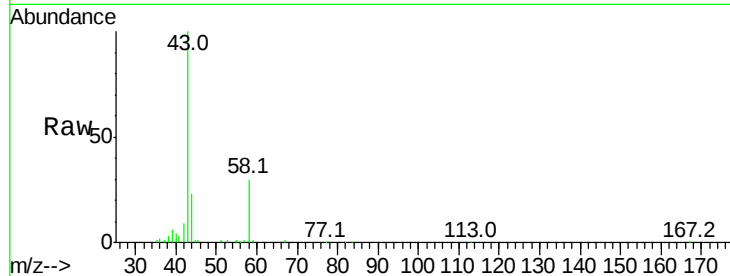
VSTDIC0.5

Tgt Ion: 43 Resp: 87658

Ion Ratio Lower Upper

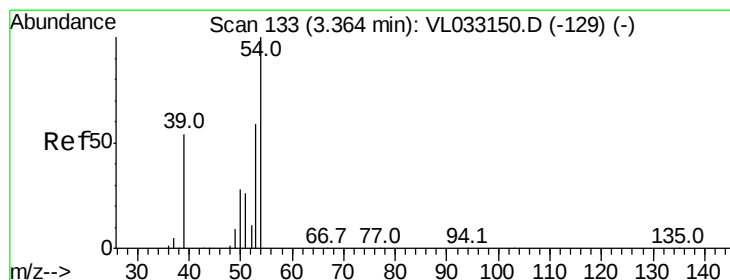
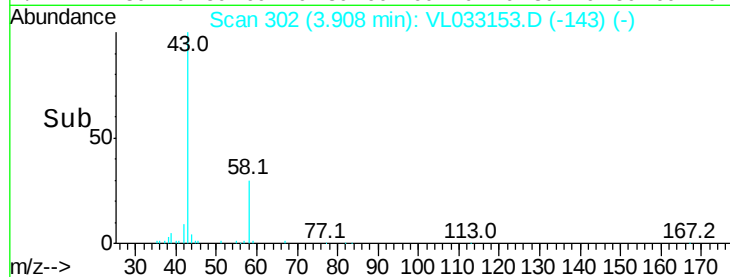
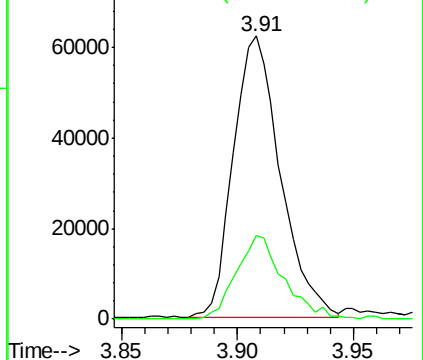
43 100

58 30.1 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.427 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033153.D

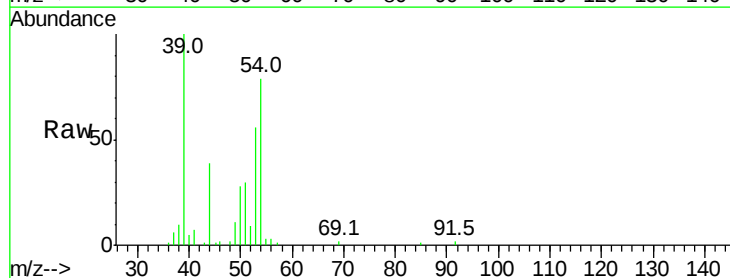
Acq: 4 Feb 2019 11:57

Tgt Ion: 39 Resp: 31197

Ion Ratio Lower Upper

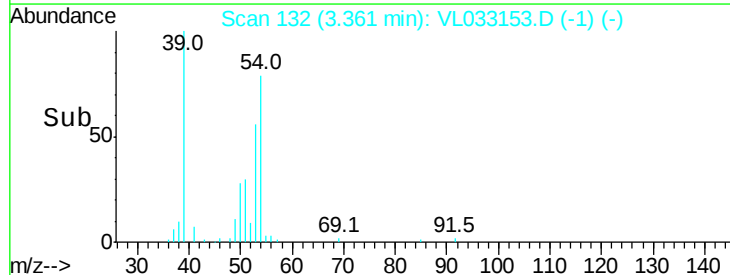
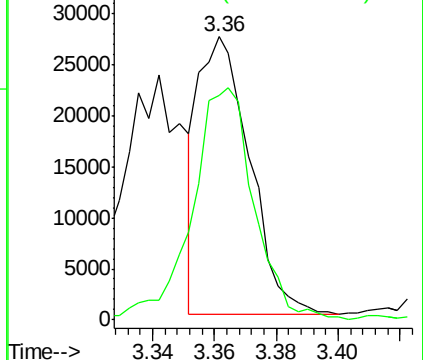
39 100

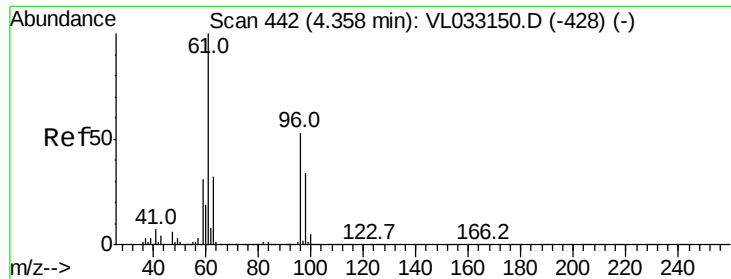
54 103.8 75.0 112.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



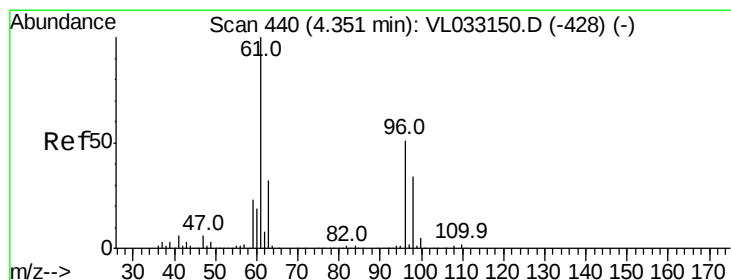
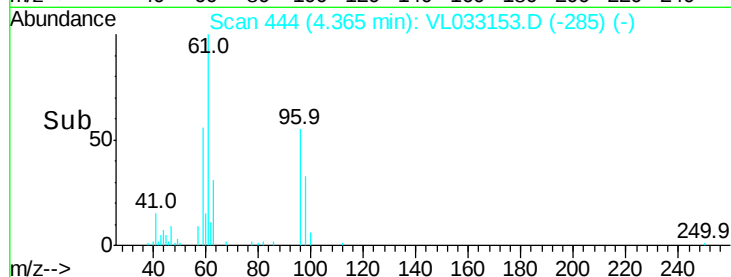
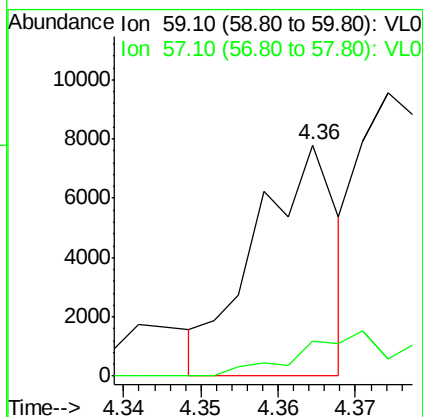
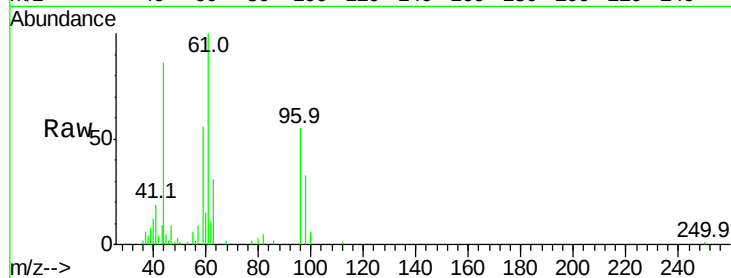


#17

tert-Butyl alcohol
Concen: 0.154 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.01 min
Lab File: VL033153.D
Acq: 4 Feb 2019 11:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

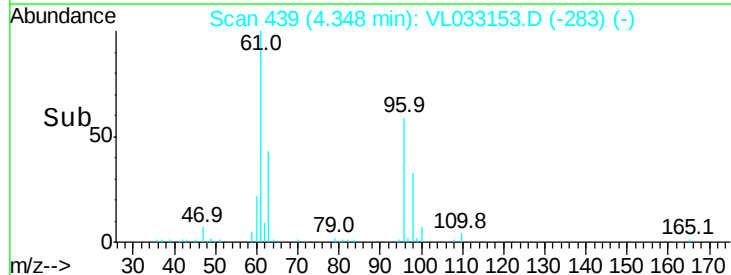
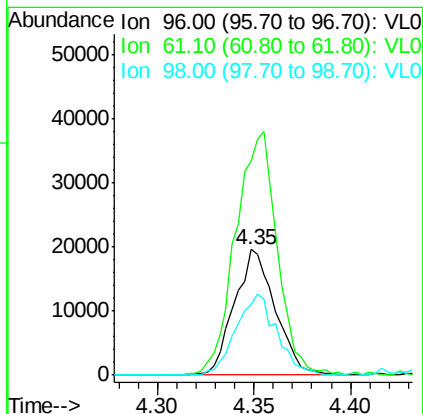
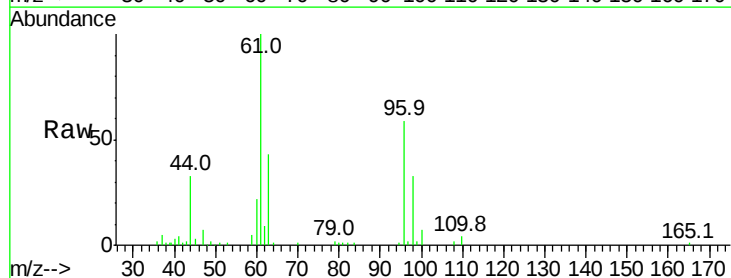
Tgt Ion: 59 Resp: 5671
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

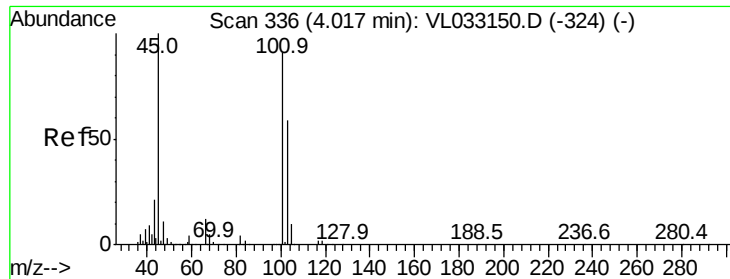


#18

1,1-Dichloroethene
Concen: 0.494 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033153.D
Acq: 4 Feb 2019 11:57

Tgt Ion: 96 Resp: 28777
Ion Ratio Lower Upper
96 100
61 164.4 158.5 237.7
98 54.3 47.8 71.6





#19

Isopropyl Alcohol

Concen: 0.523 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

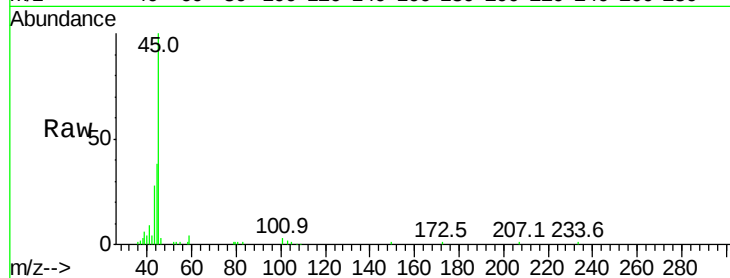
VSTDIC0.5

Tgt Ion: 45 Resp: 60921

Ion Ratio Lower Upper

45 100

58 2.3 25.1 37.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

30000

20000

10000

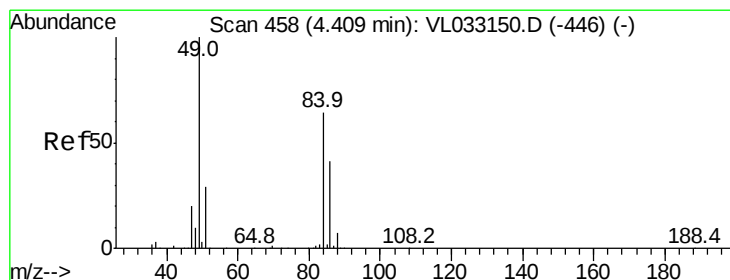
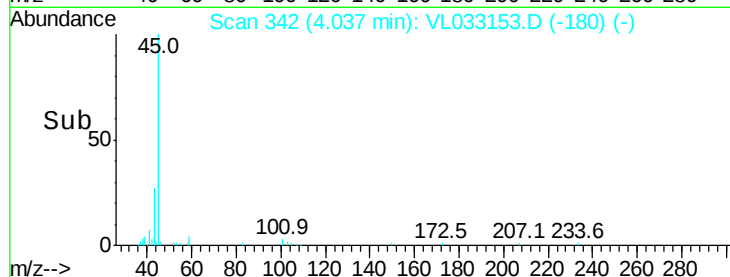
0

Time-->

4.00

4.05

4.10



#20

Methylene Chloride

Concen: 0.518 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 84 Resp: 30519

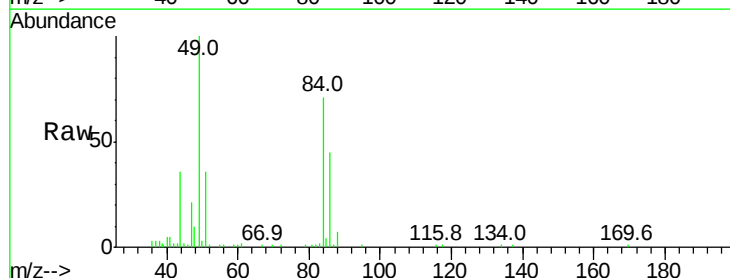
Ion Ratio Lower Upper

84 100

49 138.7 121.1 181.7

51 50.3 37.5 56.3

86 62.1 51.0 76.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.41

30000

20000

10000

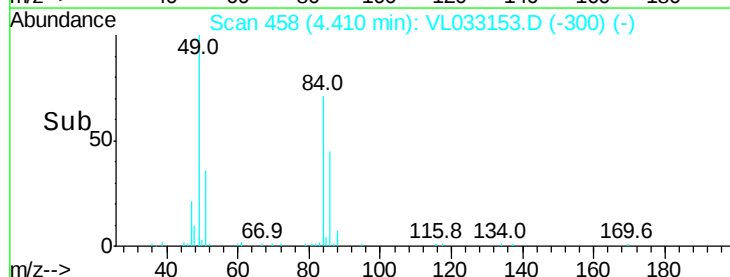
0

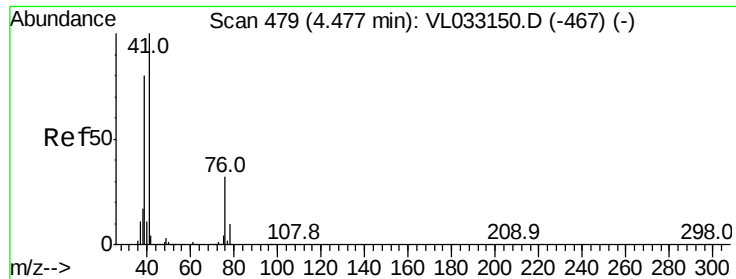
Time-->

4.35

4.40

4.45





#21

Allyl Chloride

Concen: 0.239 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

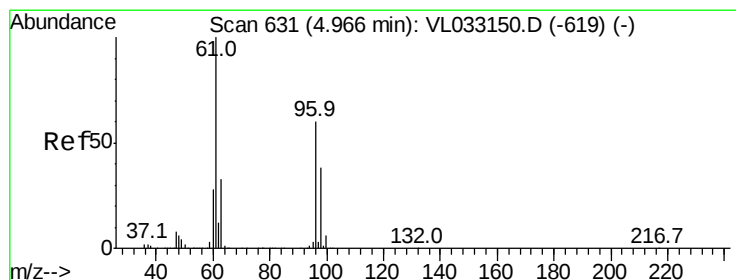
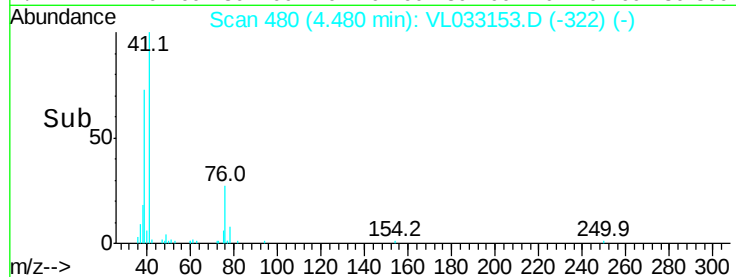
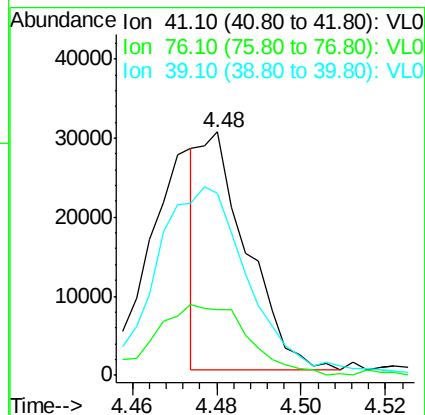
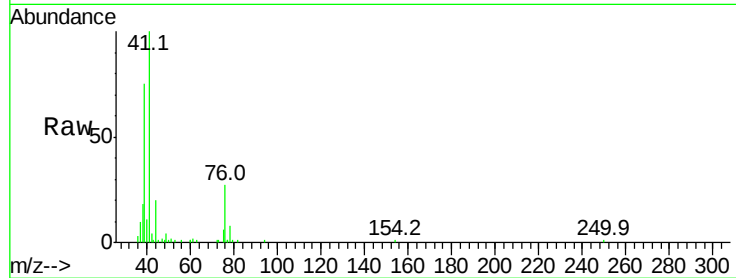
Tgt Ion: 41 Resp: 23420

Ion Ratio Lower Upper

41 100

76 60.5 23.2 34.8#

39 157.3 61.8 92.6#



#22

trans-1,2-Dichloroethene

Concen: 0.296 ppbv

RT: 4.96 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

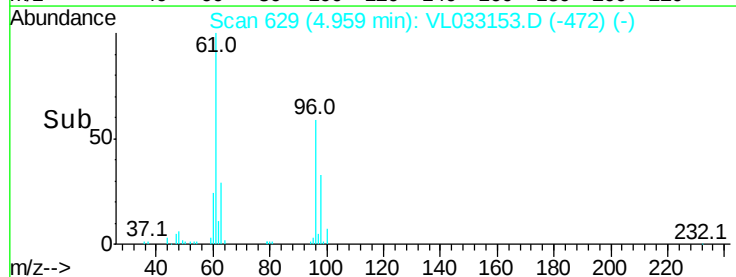
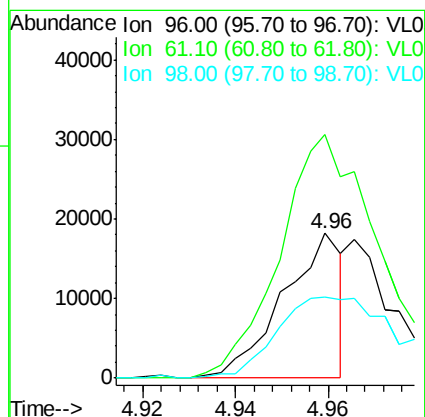
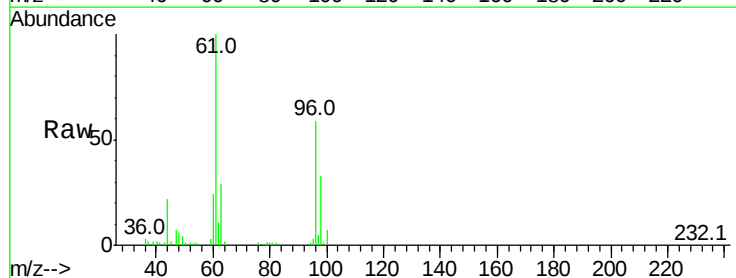
Tgt Ion: 96 Resp: 16104

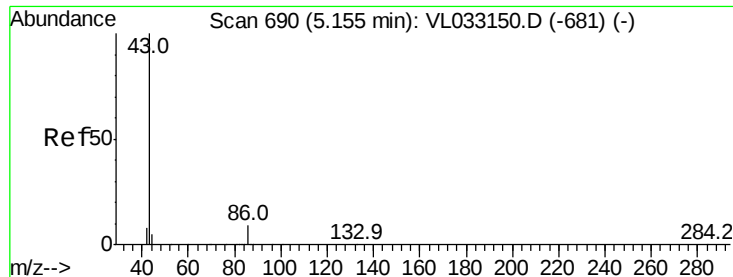
Ion Ratio Lower Upper

96 100

61 168.1 134.5 201.7

98 56.2 50.2 75.2





#23

Vinyl Acetate

Concen: 0.461 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 121806

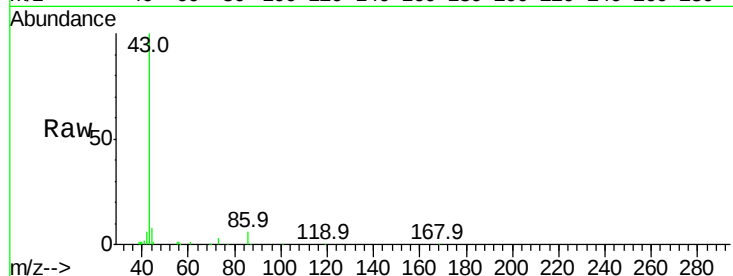
Ion Ratio Lower Upper

43 100

86 5.8 6.2 9.4#

42 5.9 7.7 11.5#

44 3.8 3.8 5.8

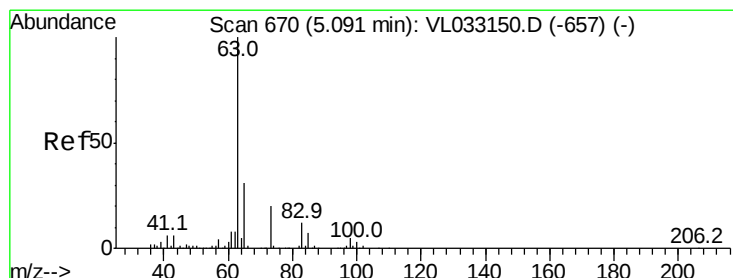
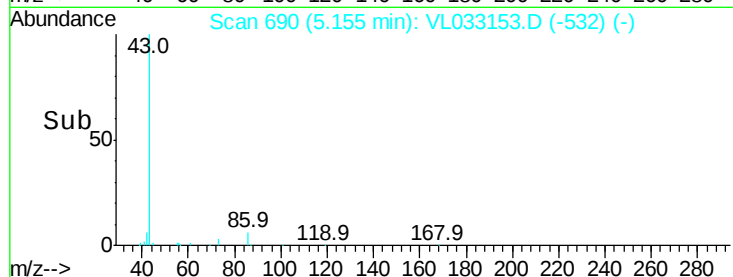
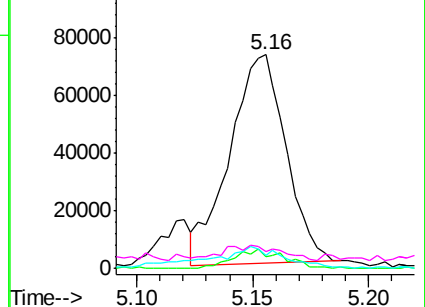


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.501 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

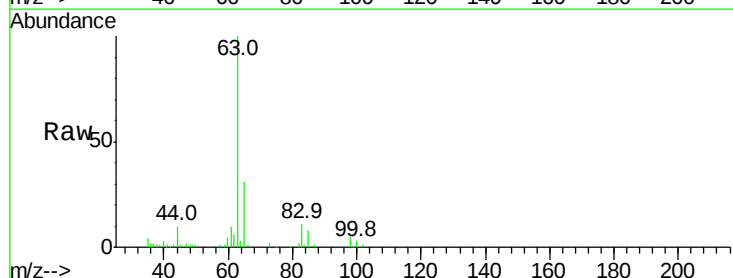
Tgt Ion: 63 Resp: 88430

Ion Ratio Lower Upper

63 100

98 5.1 2.3 6.9

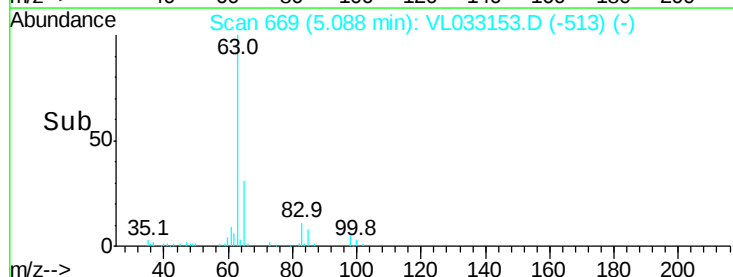
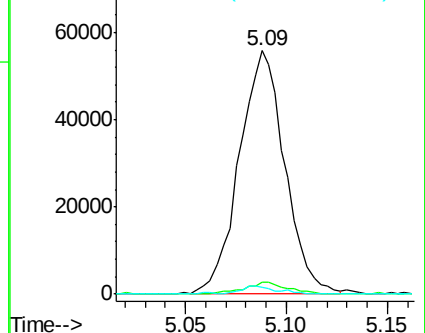
100 2.7 1.3 3.9

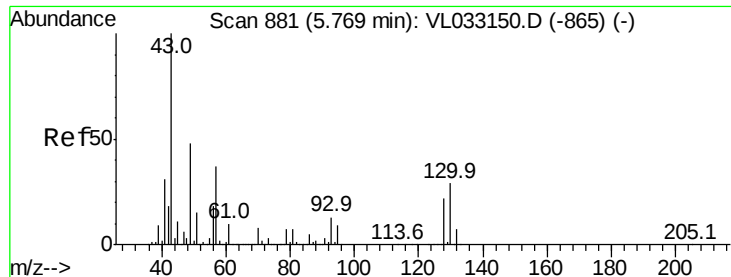


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.487 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 158806

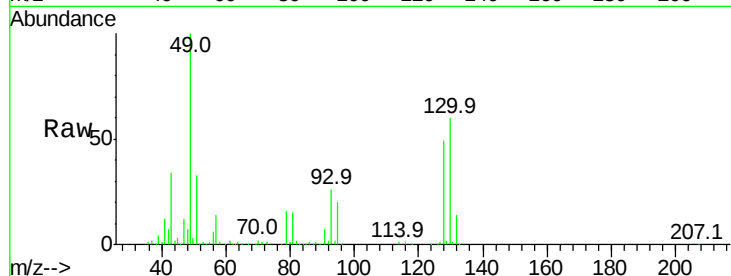
Ion Ratio Lower Upper

43 100

45 10.5 8.0 12.0

61 8.6 7.4 11.2

70 7.2 5.9 8.9

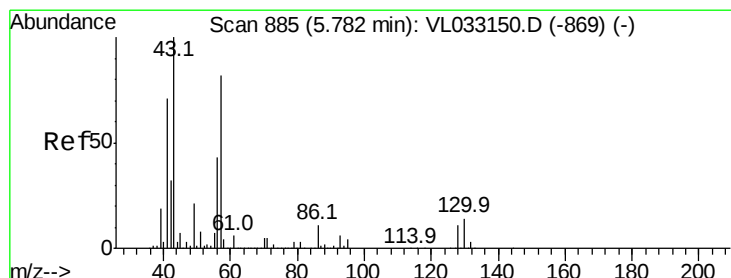
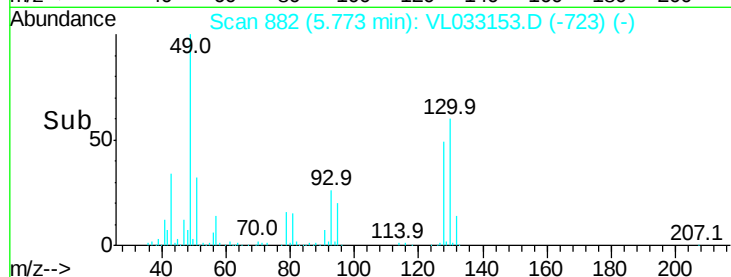
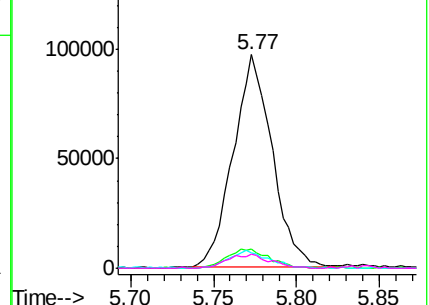


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#26

Hexane

Concen: 0.476 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 57 Resp: 75951

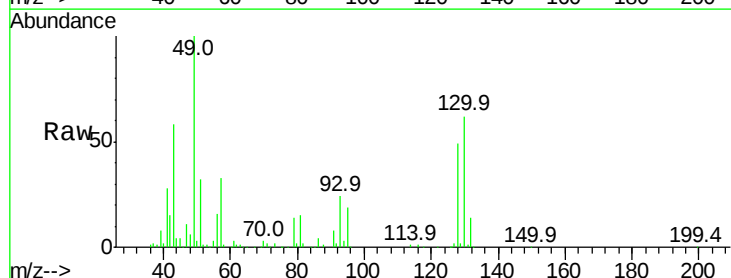
Ion Ratio Lower Upper

57 100

41 86.0 69.5 104.3

43 215.5 175.5 263.3

56 48.9 41.6 62.4

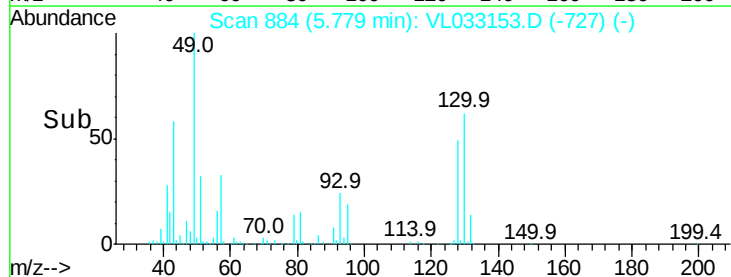
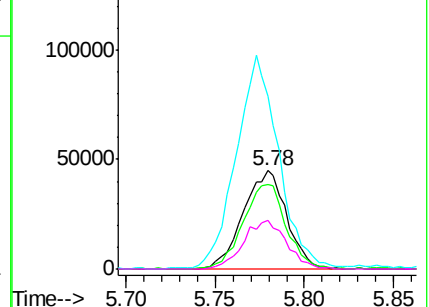


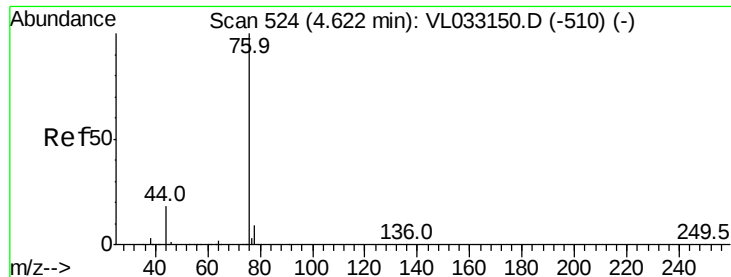
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.460 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

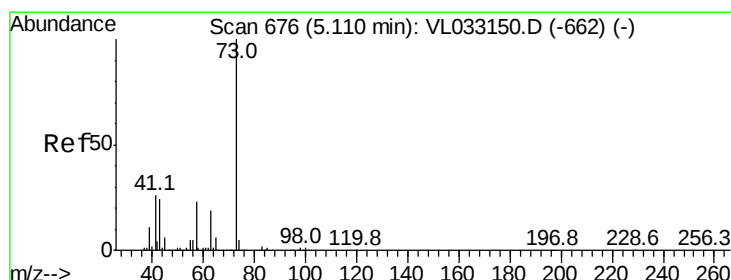
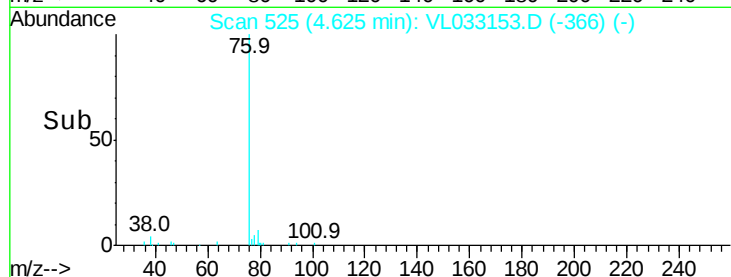
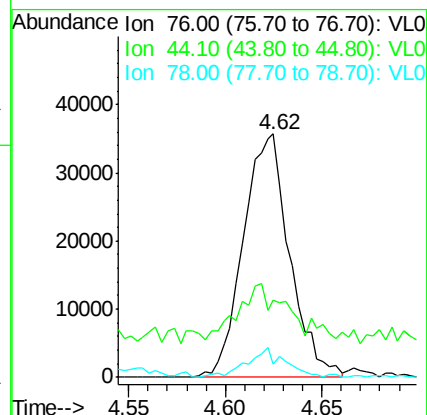
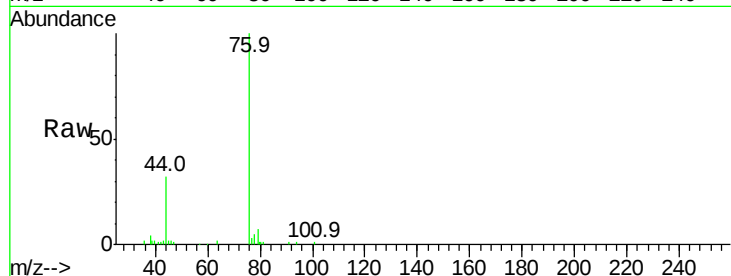
Tgt Ion: 76 Resp: 59377

Ion Ratio Lower Upper

76 100

44 32.0 17.1 25.7#

78 10.2 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 0.467 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.02 min

Lab File: VL033153.D

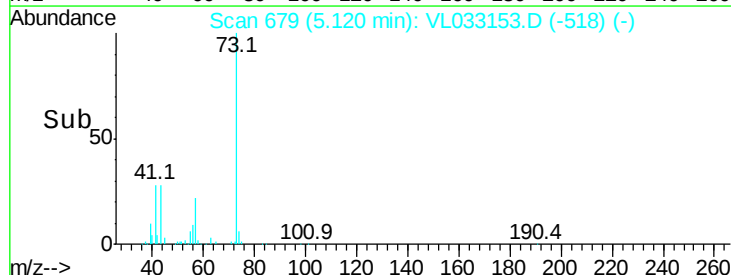
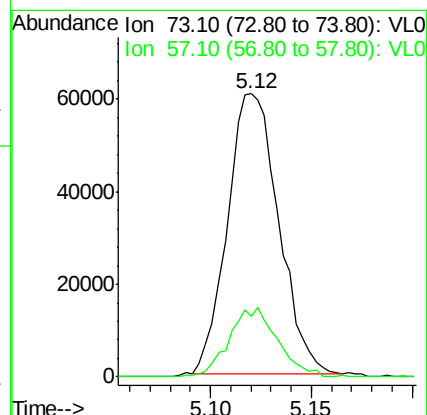
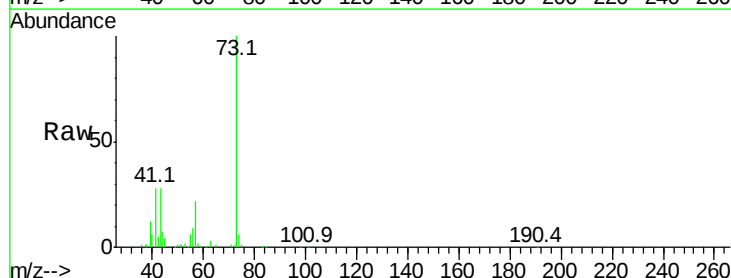
Acq: 4 Feb 2019 11:57

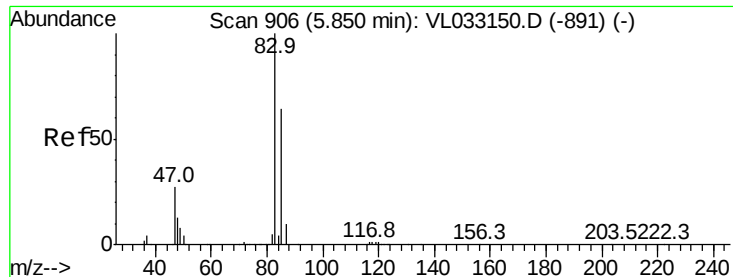
Tgt Ion: 73 Resp: 107237

Ion Ratio Lower Upper

73 100

57 23.6 18.3 27.5

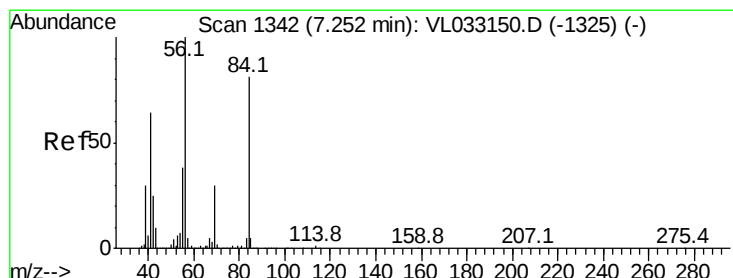
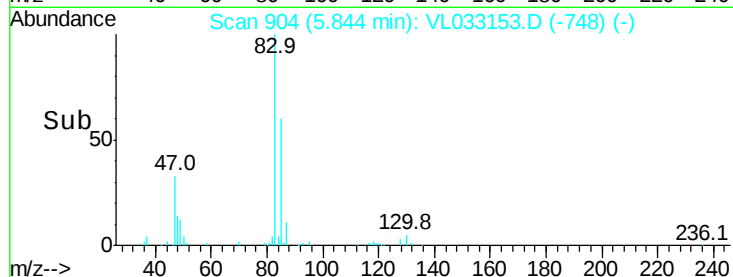
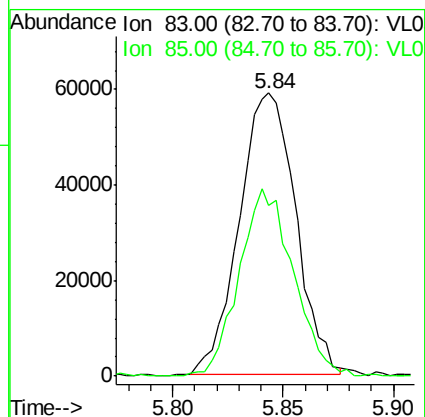
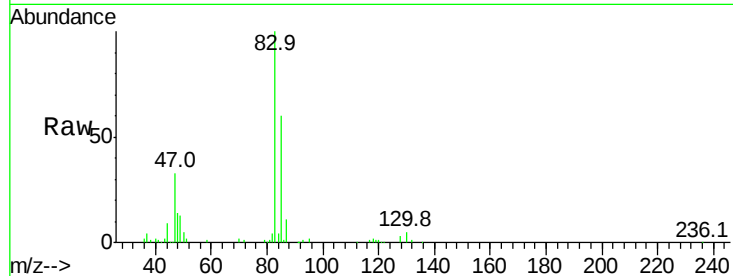




#29
Chloroform
Concen: 0.483 ppbv
RT: 5.84 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL033153.D
Acq: 4 Feb 2019 11:57

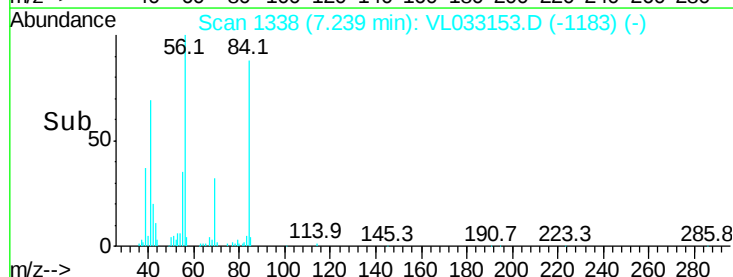
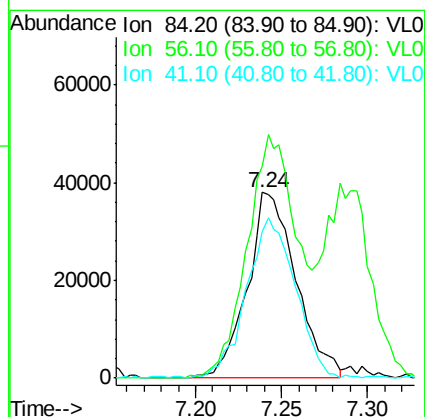
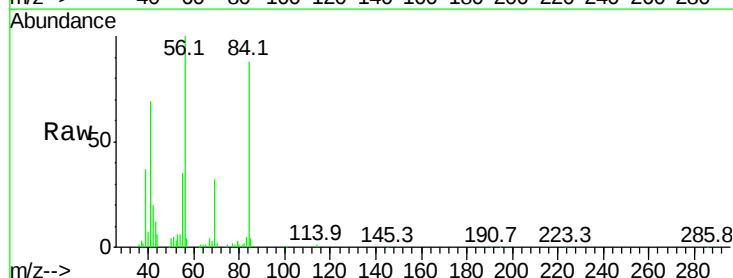
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

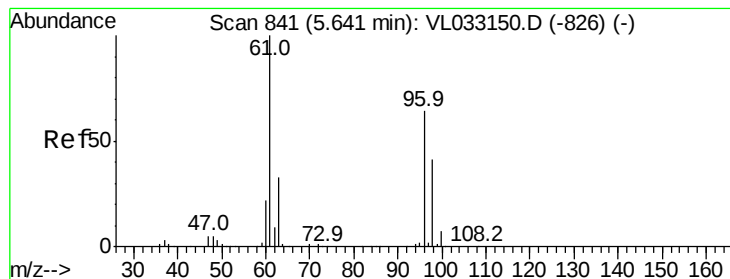
Tgt Ion: 83 Resp: 104179
Ion Ratio Lower Upper
83 100
85 59.5 51.6 77.4



#30
Cyclohexane
Concen: 0.604 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.00 min
Lab File: VL033153.D
Acq: 4 Feb 2019 11:57

Tgt Ion: 84 Resp: 74761
Ion Ratio Lower Upper
84 100
56 128.5 109.0 163.4
41 87.6 65.3 97.9





#31

cis-1,2-Dichloroethene

Concen: 0.475 ppbv

RT: 5.64 min Scan# 840

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

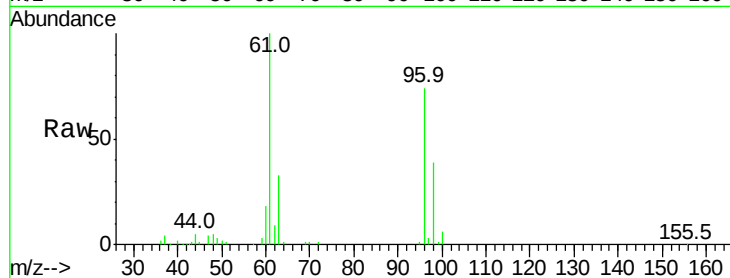
Tgt Ion: 61 Resp: 69319

Ion Ratio Lower Upper

61 100

96 73.9 53.3 79.9

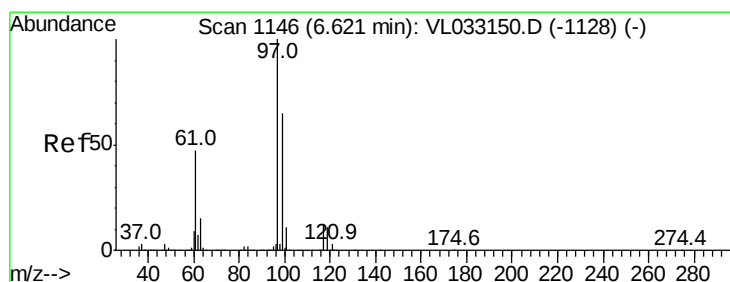
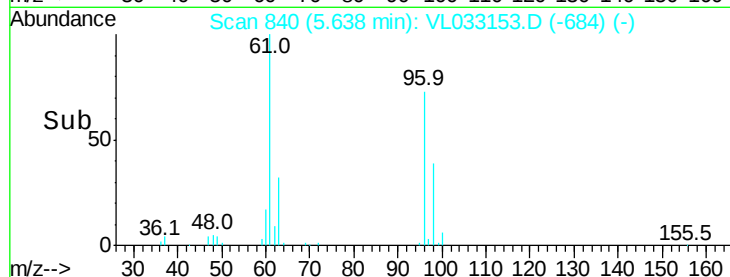
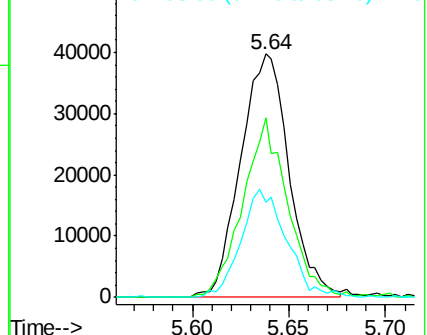
98 38.9 33.7 50.5



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: 0.440 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

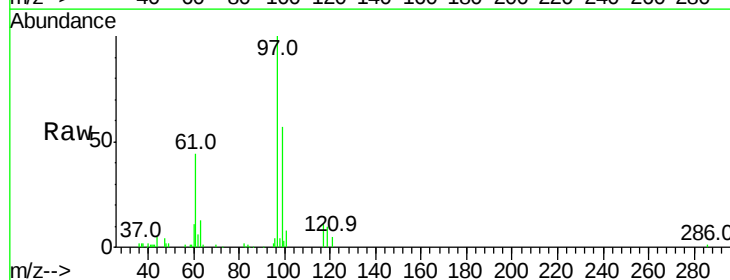
Tgt Ion: 97 Resp: 97938

Ion Ratio Lower Upper

97 100

99 61.7 65.1 97.7#

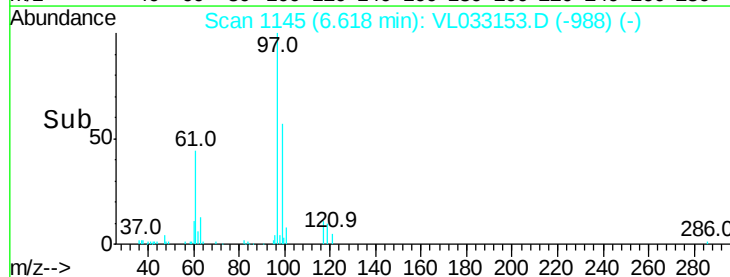
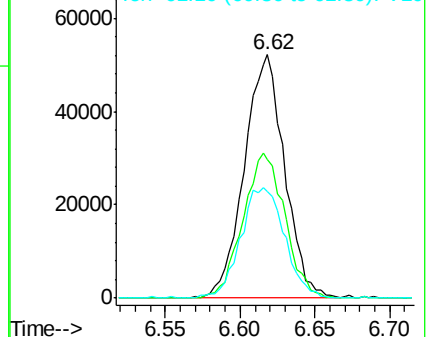
61 49.5 47.7 71.5

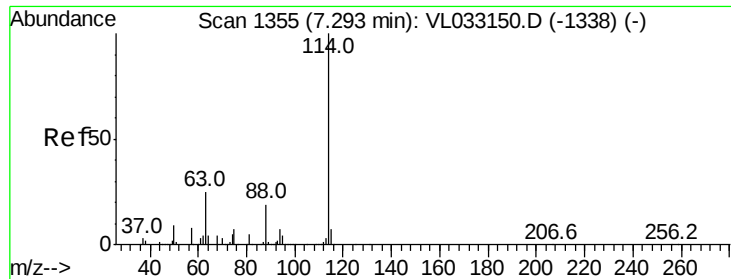


Abundance Ion 97.00 (96.70 to 97.70): VL0

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. 0.00 min

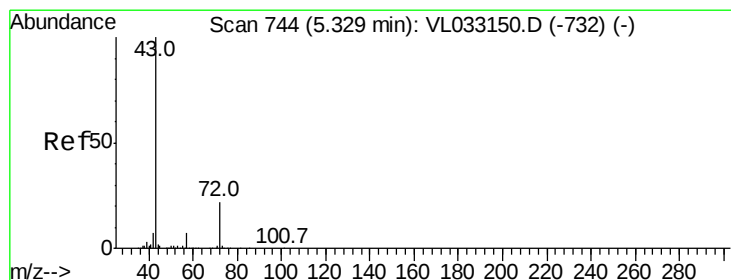
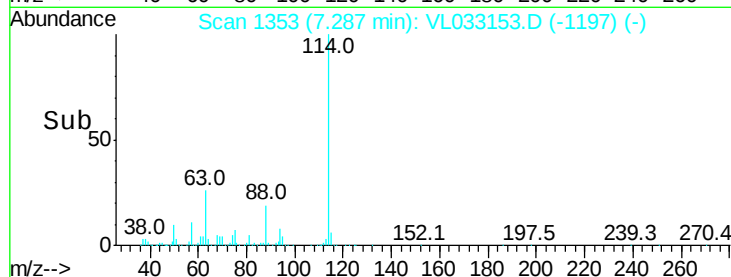
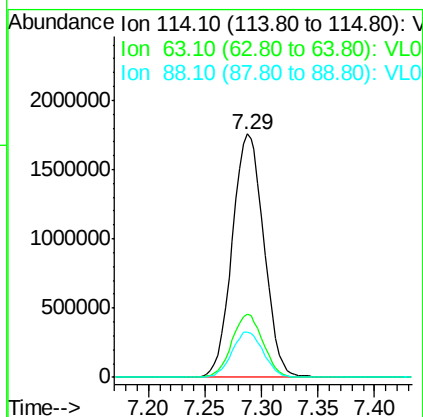
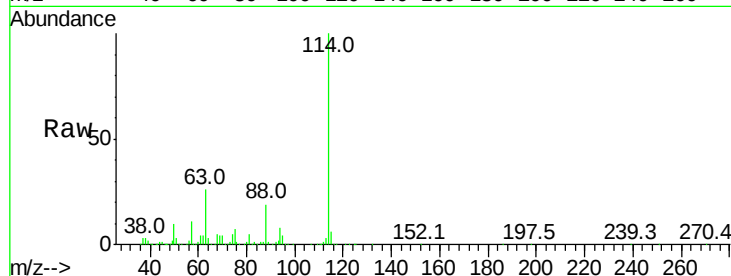
Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:114 Resp: 3421014

Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.0	30.0
88	18.6	14.4	21.6



#34

2-Butanone

Concen: 0.420 ppbv

RT: 5.33 min Scan# 745

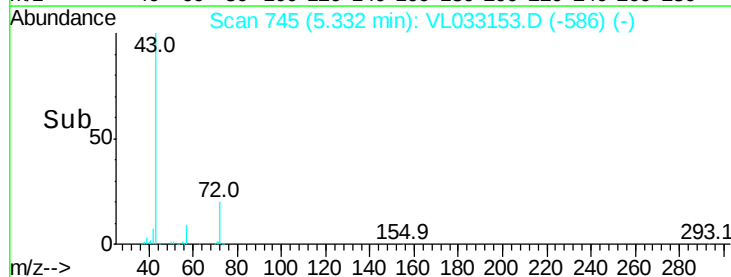
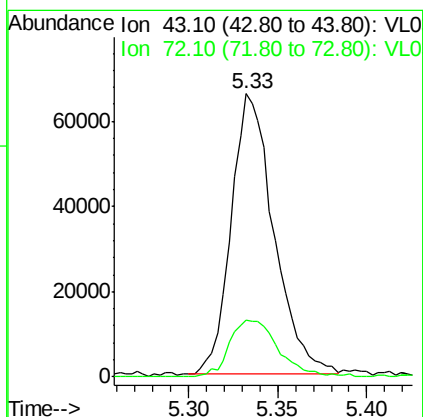
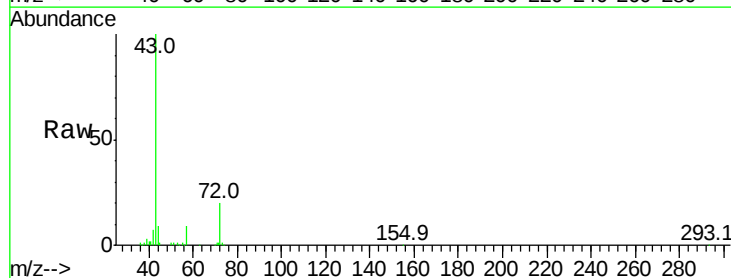
Delta R.T. 0.01 min

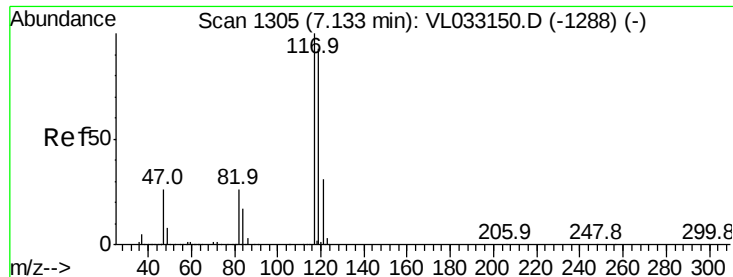
Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 43 Resp: 109917

Ion	Ratio	Lower	Upper
43	100		
72	23.8	17.9	26.9





#35

Carbon Tetrachloride

Concen: 0.438 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

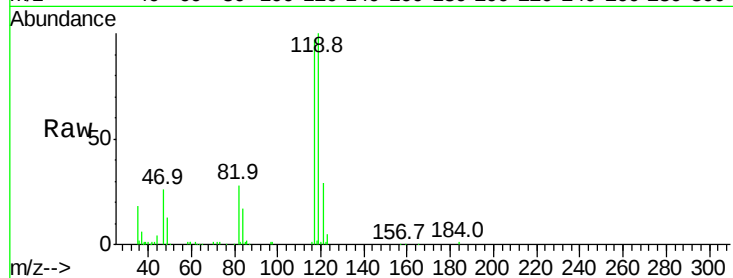
Tgt Ion:117 Resp: 112337

Ion Ratio Lower Upper

117 100

119 103.0 76.6 114.8

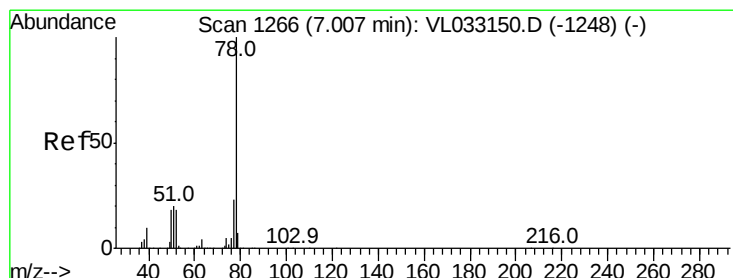
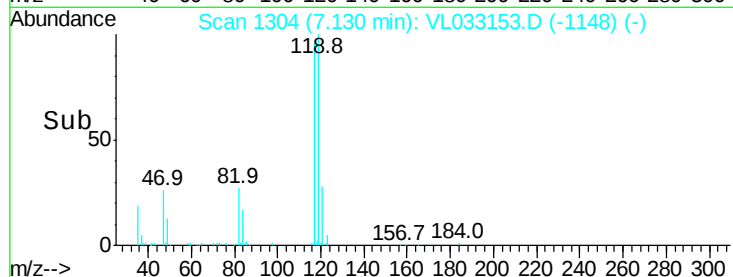
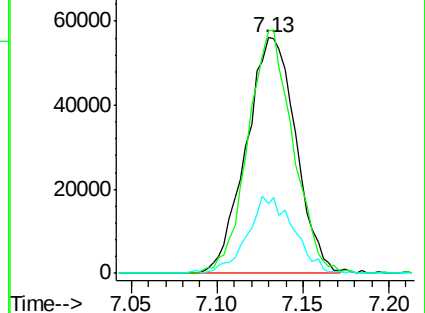
121 29.2 25.0 37.4



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: 0.487 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

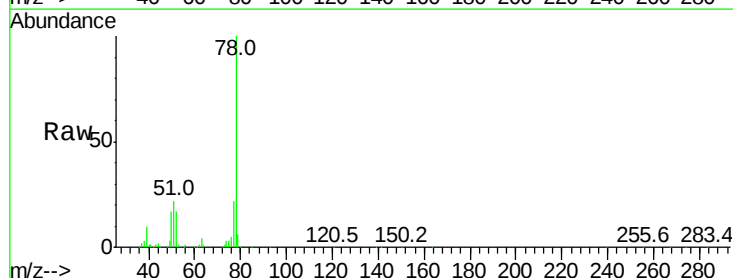
Tgt Ion: 78 Resp: 186843

Ion Ratio Lower Upper

78 100

77 22.0 17.8 26.6

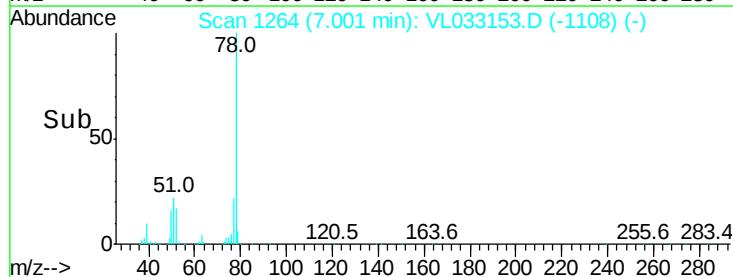
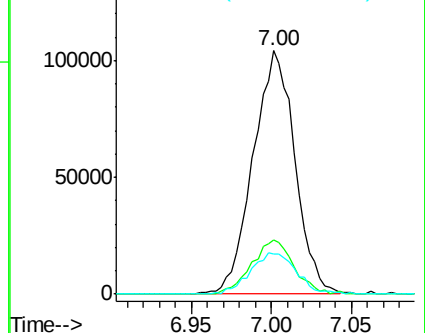
50 16.6 14.7 22.1

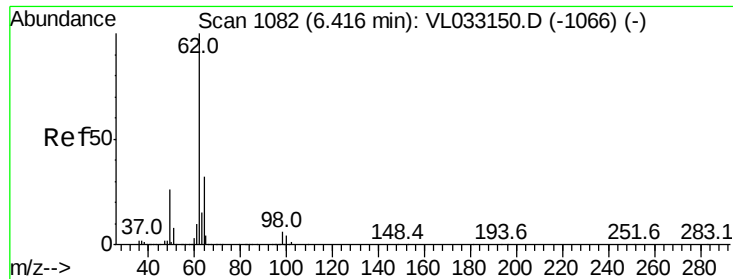


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.417 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

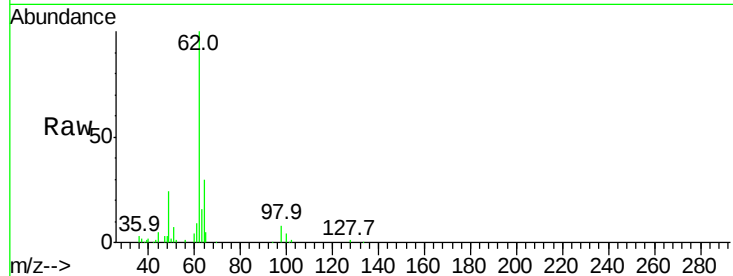
VSTDIC0.5

Tgt Ion: 62 Resp: 81421

Ion Ratio Lower Upper

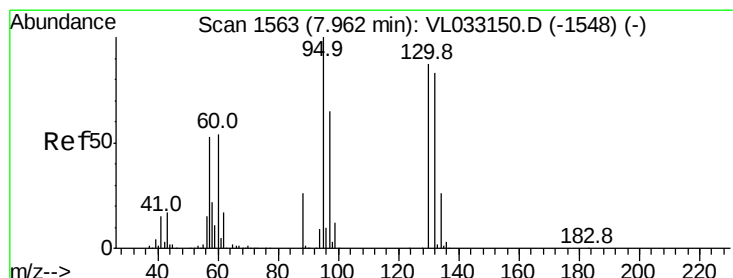
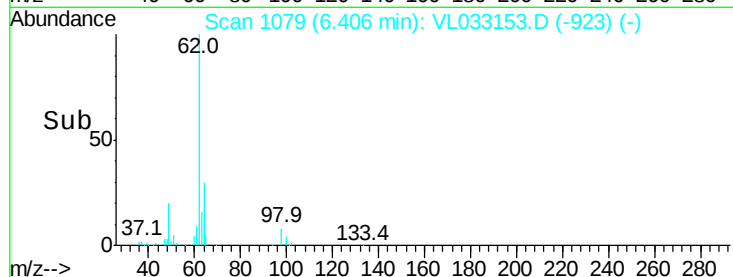
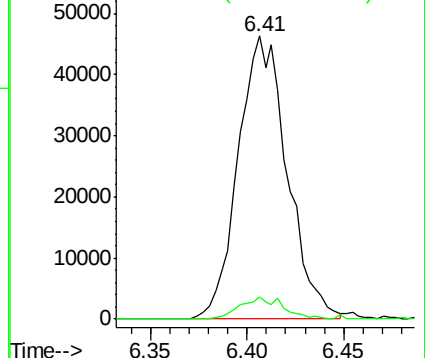
62 100

98 7.0 5.3 7.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.437 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 130 Resp: 67499

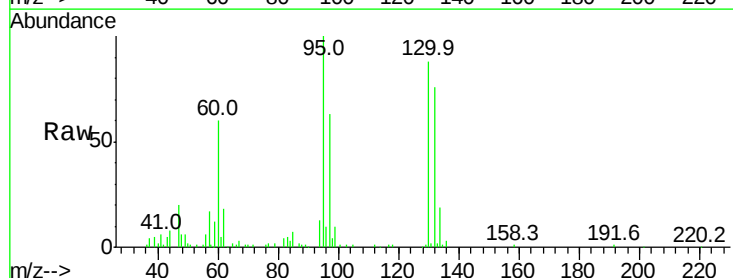
Ion Ratio Lower Upper

130 100

95 111.1 91.6 137.4

132 84.3 79.0 118.4

97 70.7 58.1 87.1

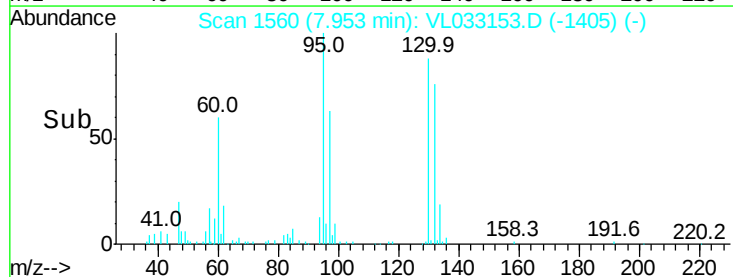
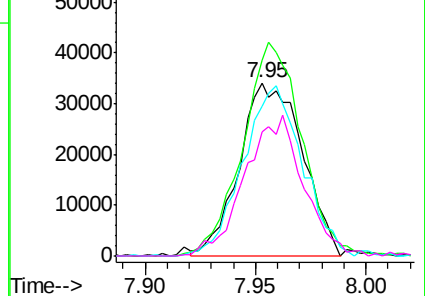


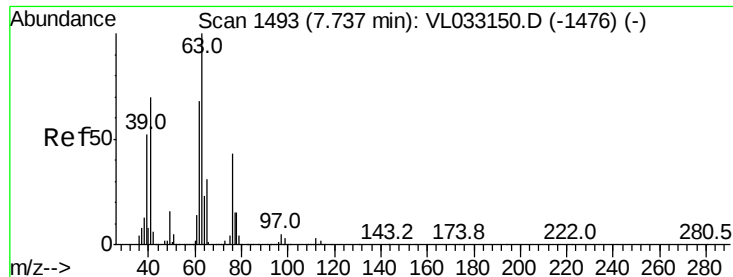
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.336 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

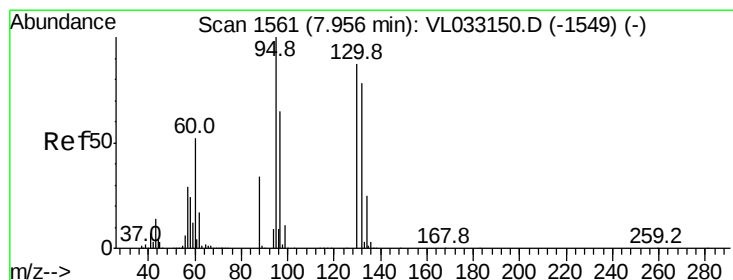
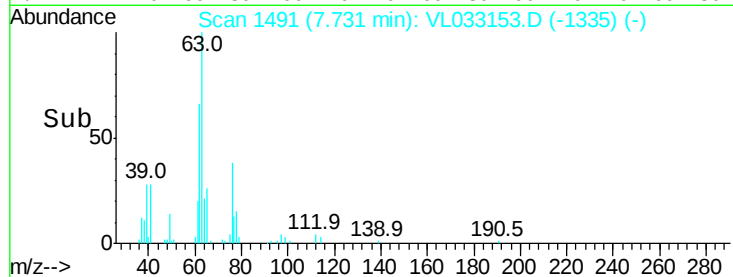
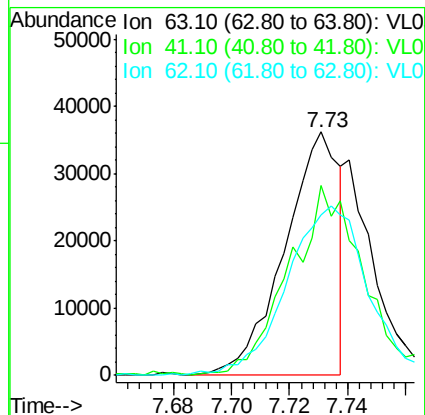
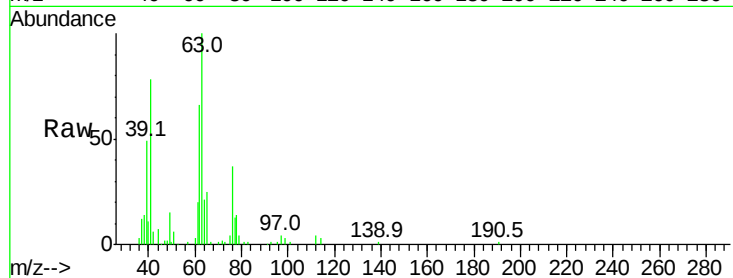
Tgt Ion: 63 Resp: 47284

Ion Ratio Lower Upper

63 100

41 78.1 53.2 79.8

62 65.1 54.4 81.6



#40

1,4-Dioxane

Concen: 0.175 ppbv

RT: 7.98 min Scan# 1568

Delta R.T. 0.03 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 88 Resp: 8677

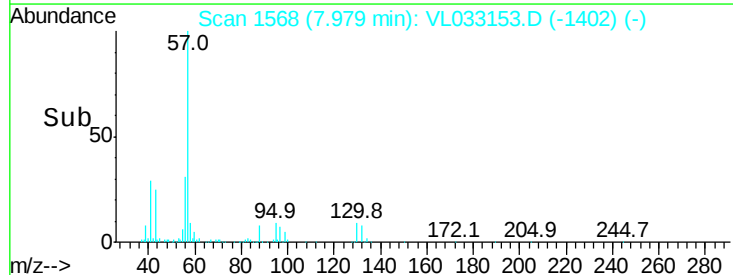
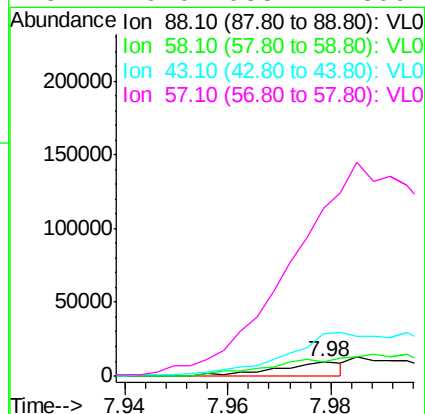
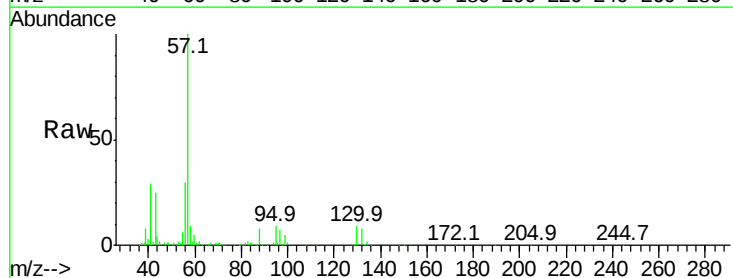
Ion Ratio Lower Upper

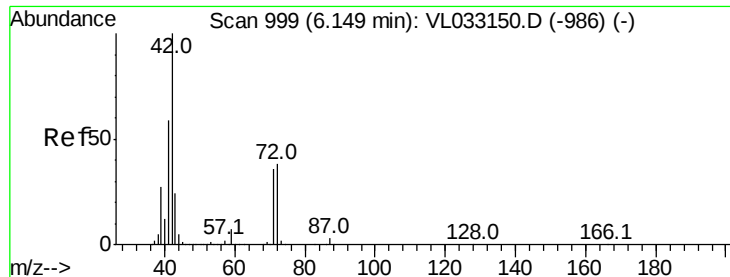
88 100

58 0.0 103.4 155.2#

43 0.0 210.8 316.2#

57 0.0 933.2 1399.8#





#41

Tetrahydrofuran

Concen: 0.397 ppbv

RT: 6.17 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

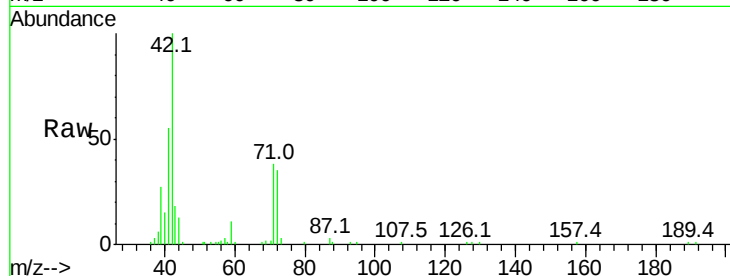
Tgt Ion: 42 Resp: 62420

Ion Ratio Lower Upper

42 100

72 37.0 30.2 45.4

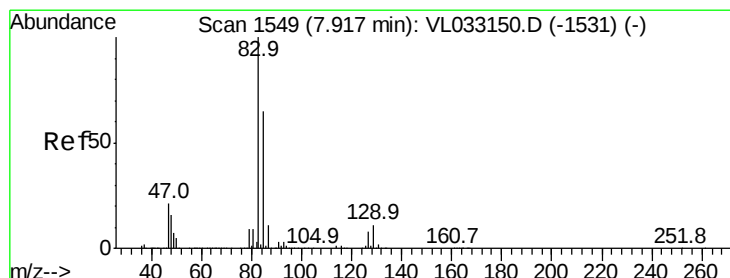
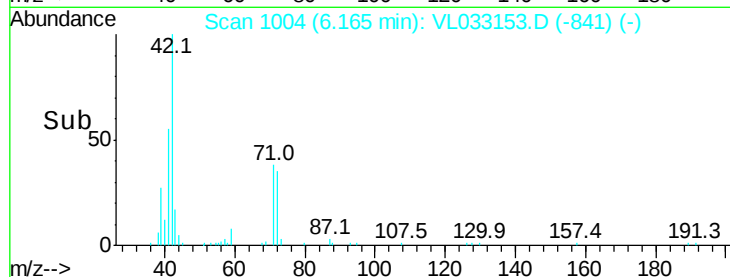
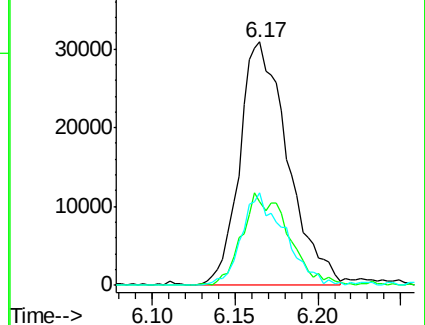
71 34.8 28.8 43.2



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: 0.467 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

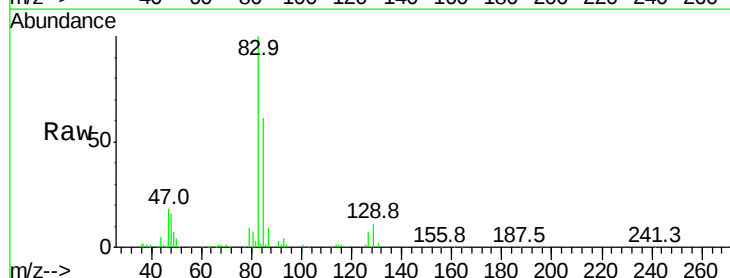
Tgt Ion: 83 Resp: 129911

Ion Ratio Lower Upper

83 100

85 60.0 51.3 76.9

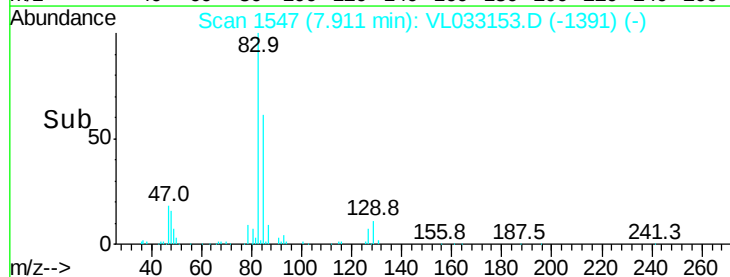
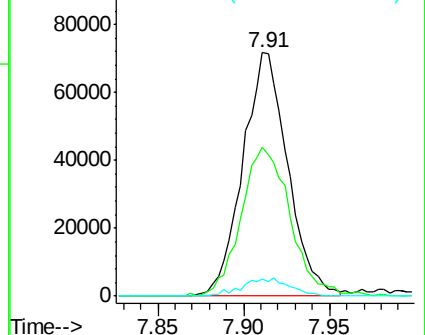
127 7.2 6.1 9.1

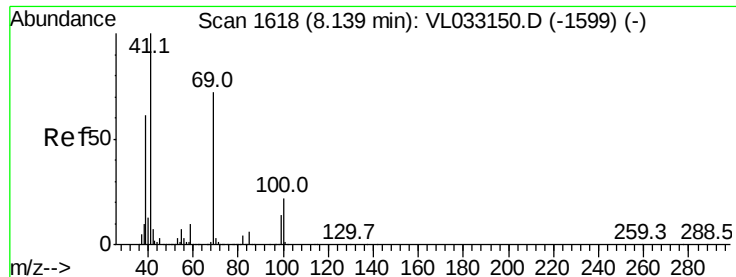


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.279 ppbv

RT: 8.14 min Scan# 1617

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

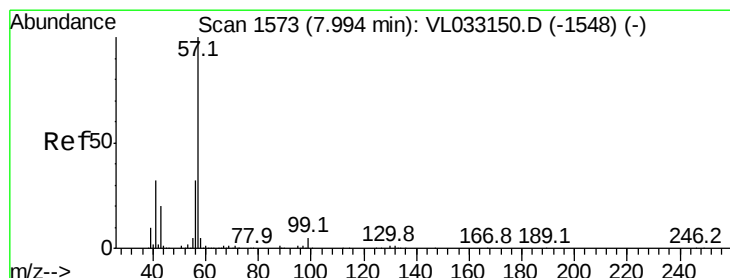
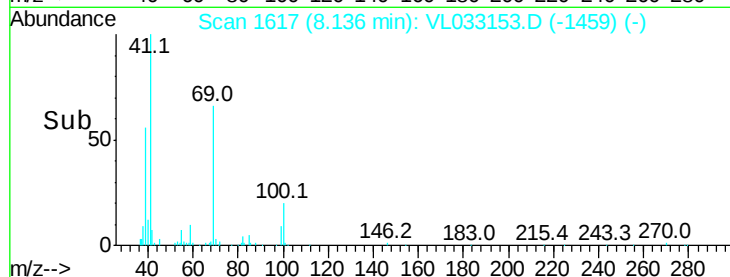
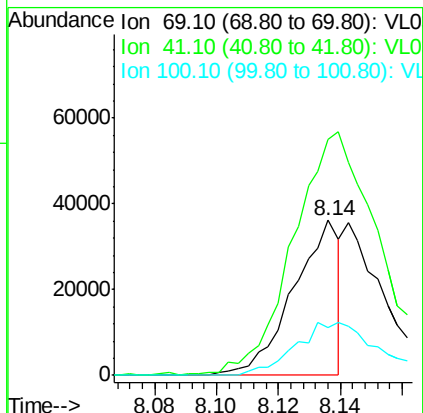
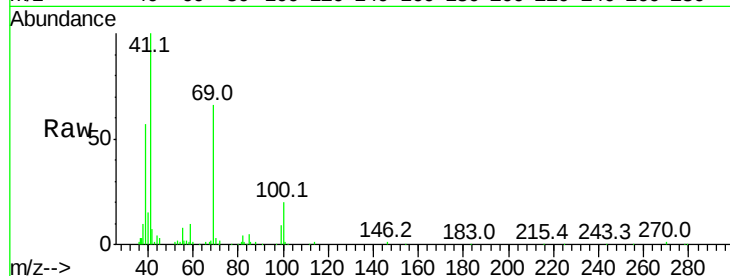
MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 69 Resp: 37457

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.4	177.6#
100	61.8	26.5	39.7#



#44

2,2,4-Trimethylpentane

Concen: 0.269 ppbv

RT: 7.98 min Scan# 1570

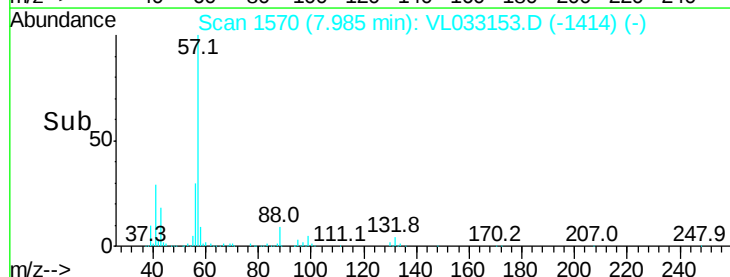
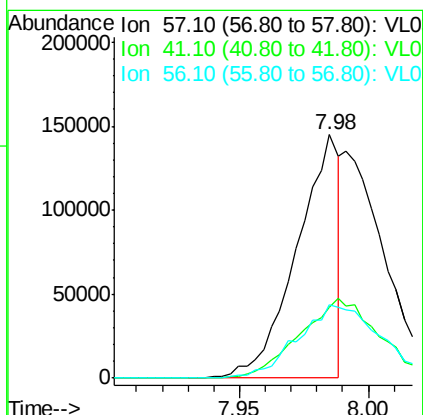
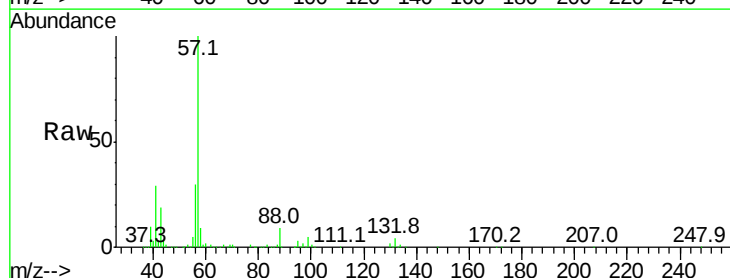
Delta R.T. 0.00 min

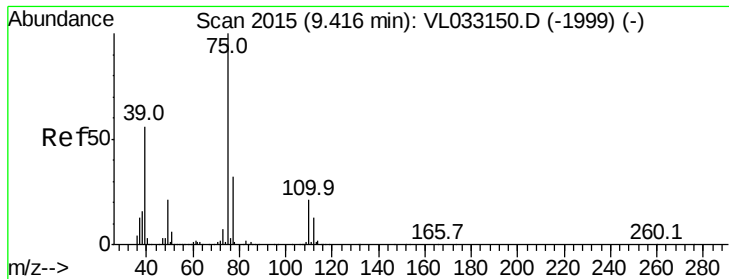
Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 57 Resp: 166363

Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.6	36.8#
56	58.6	24.9	37.3#





#45

t-1,3-Dichloropropene

Concen: 0.419 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

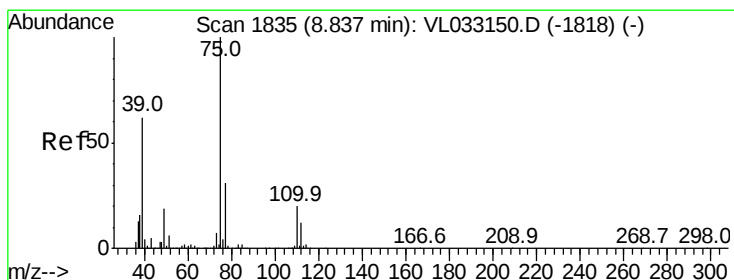
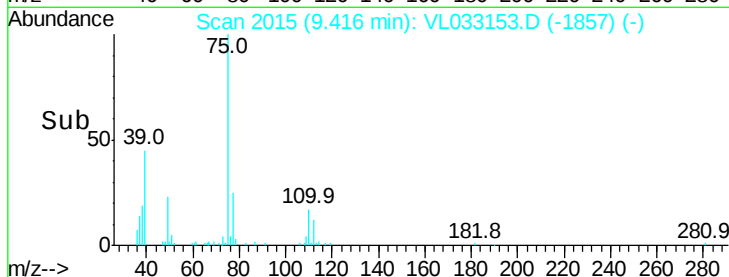
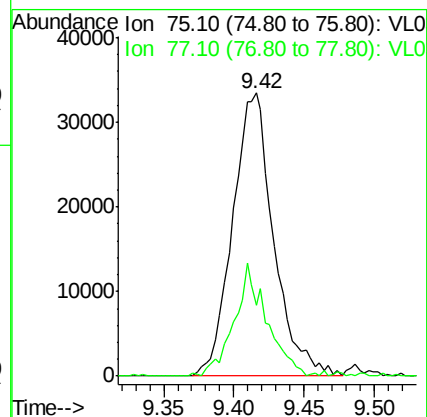
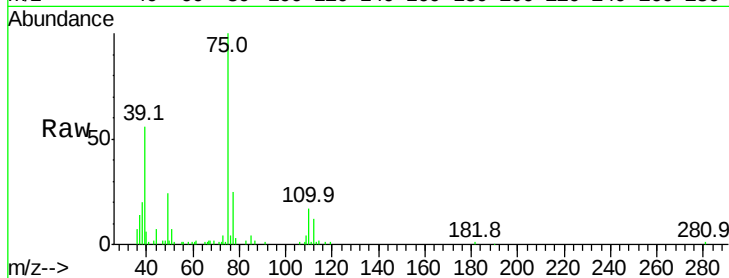
VSTDIC0.5

Tgt Ion: 75 Resp: 68041

Ion Ratio Lower Upper

75 100

77 25.3 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 0.466 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

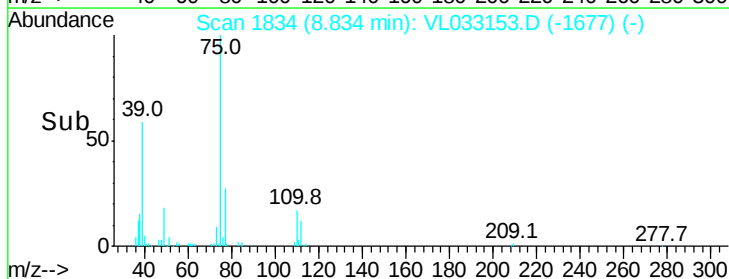
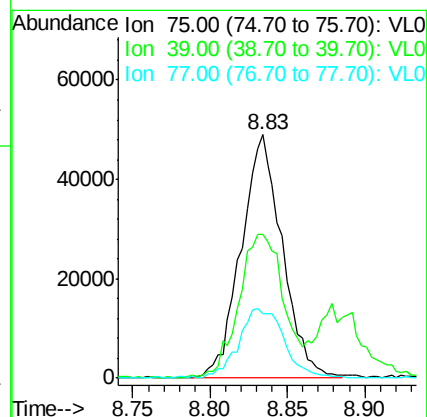
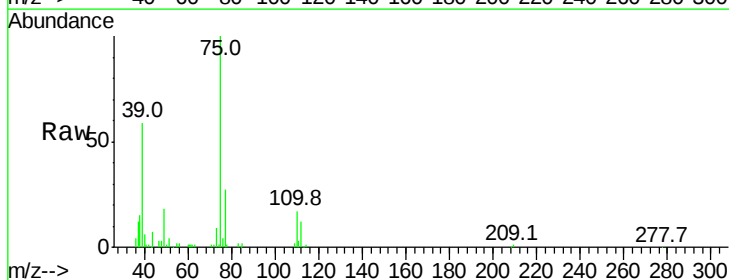
Tgt Ion: 75 Resp: 90648

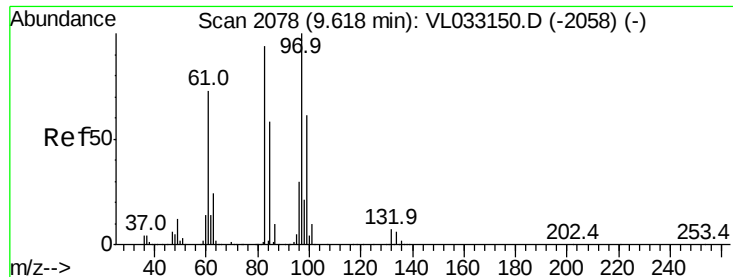
Ion Ratio Lower Upper

75 100

39 57.7 51.4 77.2

77 26.1 25.4 38.0

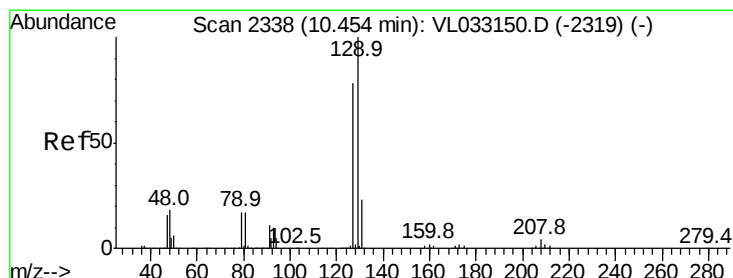
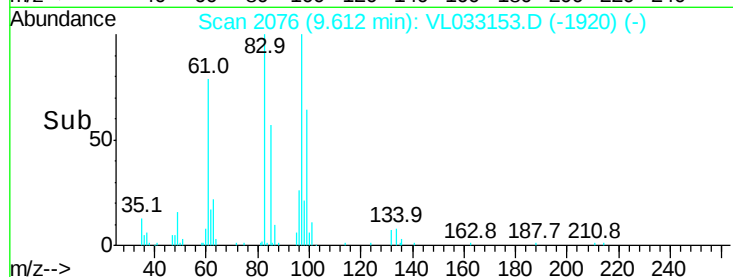
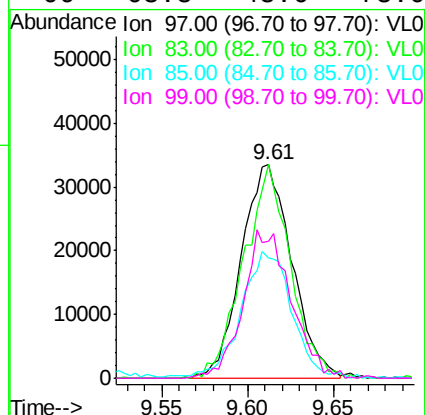
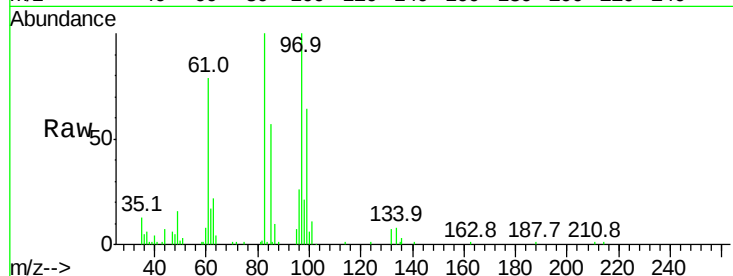




#47
 1,1,2-Trichloroethane
 Concen: 0.532 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. 0.00 min
 Lab File: VL033153.D
 Acq: 4 Feb 2019 11:57

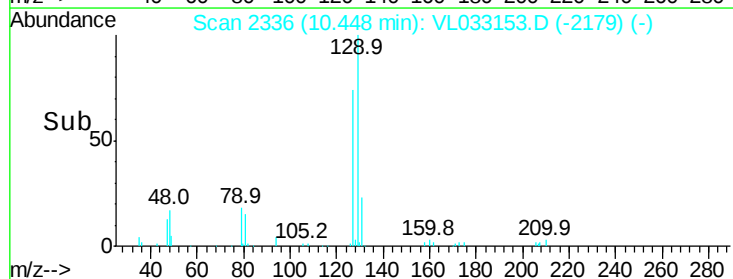
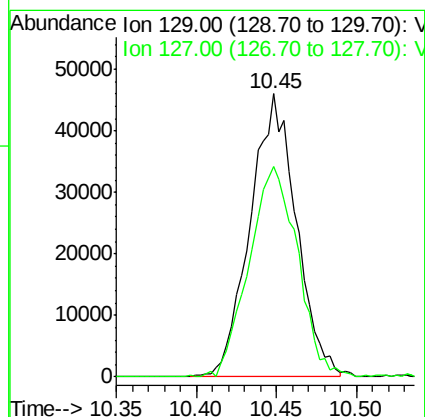
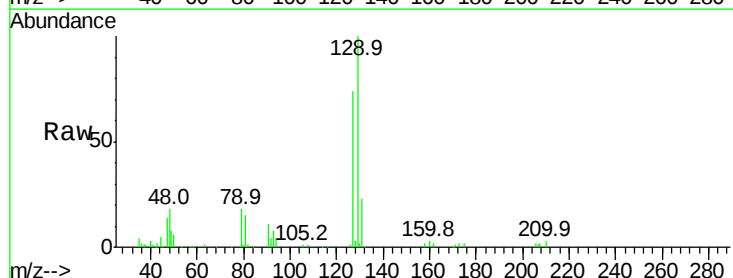
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

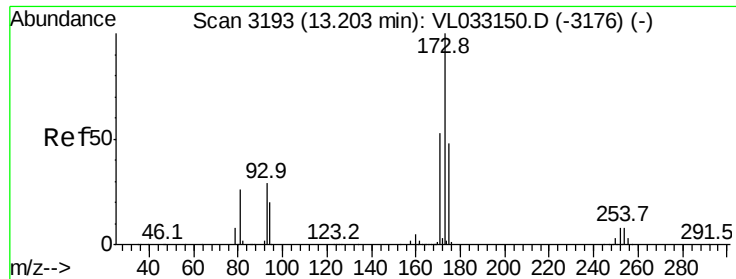
Tgt Ion: 97 Resp: 68201
 Ion Ratio Lower Upper
 97 100
 83 99.9 65.8 98.8#
 85 55.5 44.7 67.1
 99 63.8 48.6 73.0



#48
 Dibromochloromethane
 Concen: 0.425 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. 0.00 min
 Lab File: VL033153.D
 Acq: 4 Feb 2019 11:57

Tgt Ion: 129 Resp: 90826
 Ion Ratio Lower Upper
 129 100
 127 79.0 39.3 117.9





#49

Bromoform

Concen: 0.230 ppbv

RT: 13.19 min Scan# 3190

Delta R.T. -0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

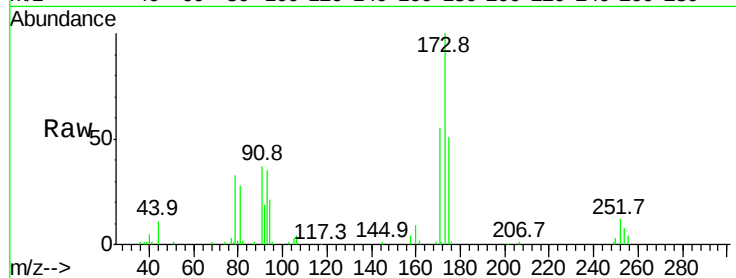
Tgt Ion:173 Resp: 40851

Ion Ratio Lower Upper

173 100

175 85.8 39.3 58.9#

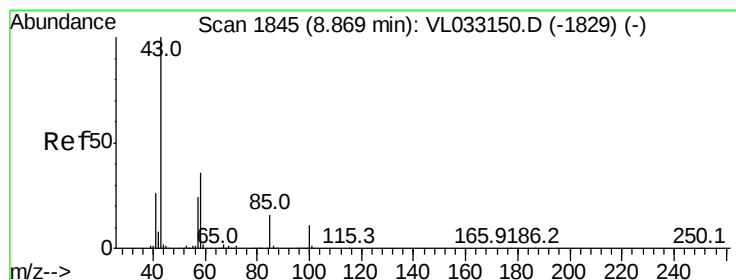
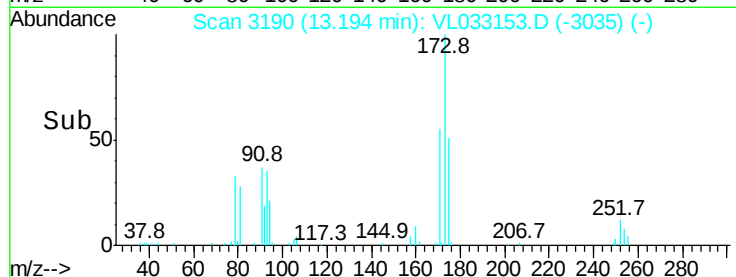
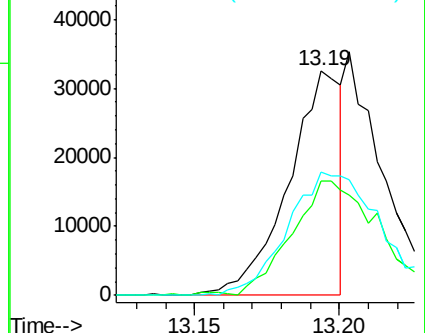
171 96.7 41.8 62.6#



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: 0.594 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. 0.02 min

Lab File: VL033153.D

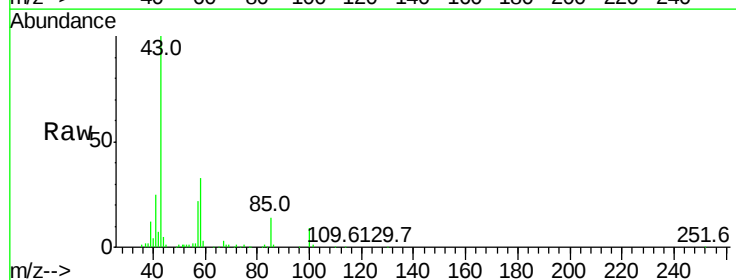
Acq: 4 Feb 2019 11:57

Tgt Ion: 43 Resp: 201907

Ion Ratio Lower Upper

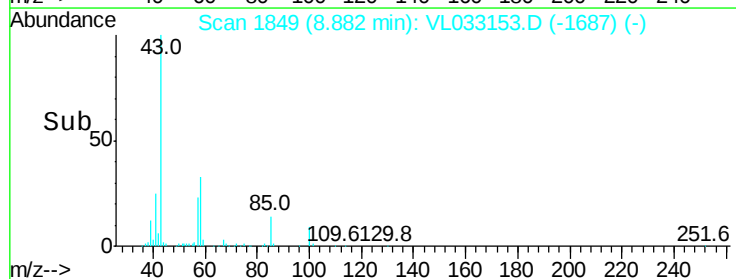
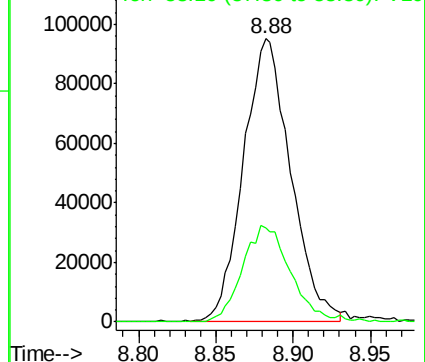
43 100

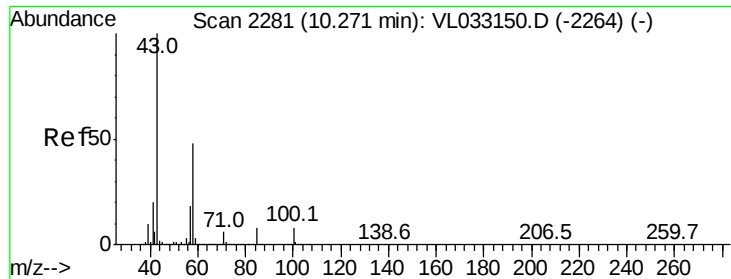
58 34.9 28.7 43.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.250 ppbv

RT: 10.29 min Scan# 2287

Delta R.T. 0.03 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

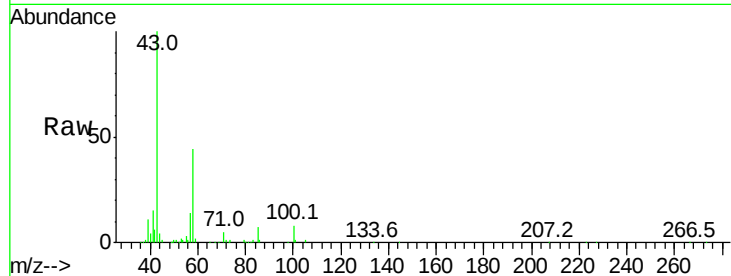
Tgt Ion: 43 Resp: 75616

Ion Ratio Lower Upper

43 100

58 107.0 39.4 59.2#

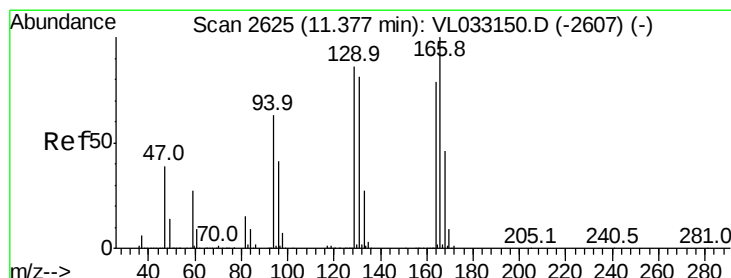
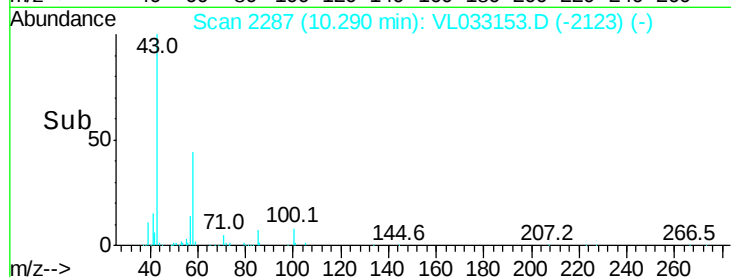
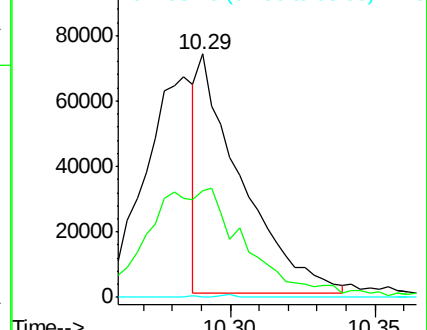
98 0.8 0.1 0.1#



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: 0.430 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 164 Resp: 62648

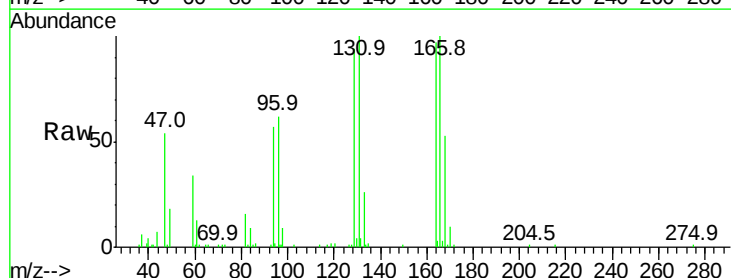
Ion Ratio Lower Upper

164 100

166 103.4 98.6 148.0

129 99.7 86.3 129.5

131 105.1 83.7 125.5

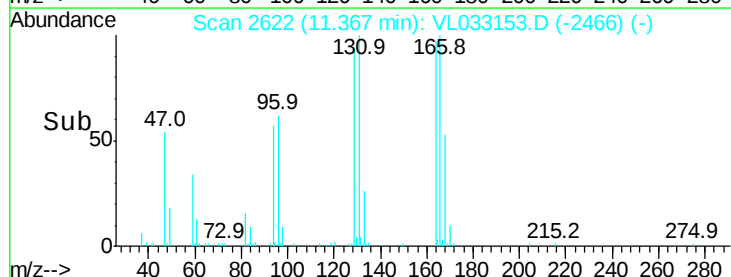
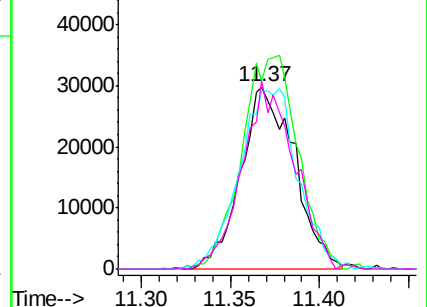


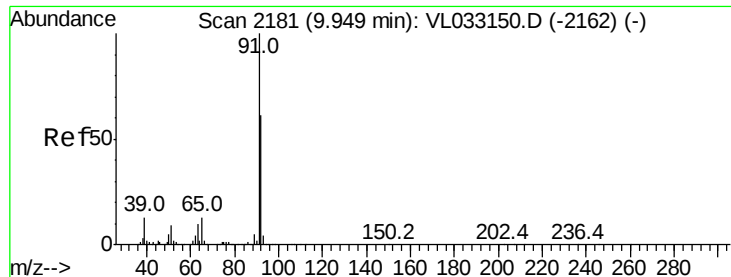
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.451 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

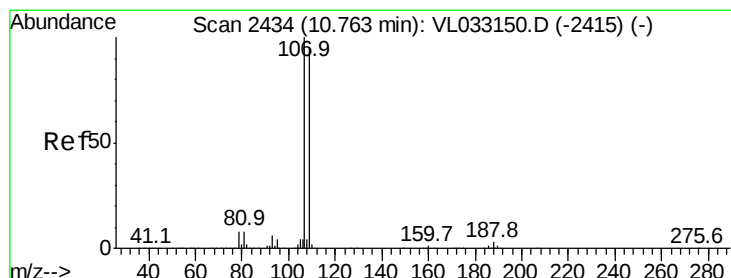
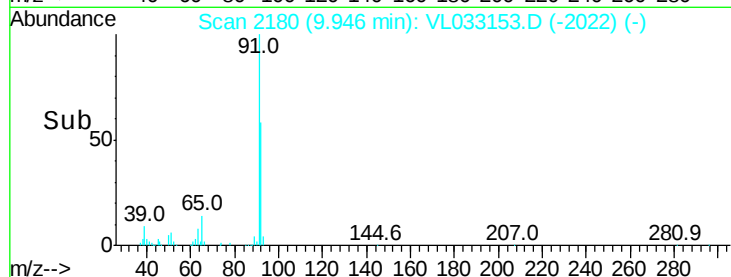
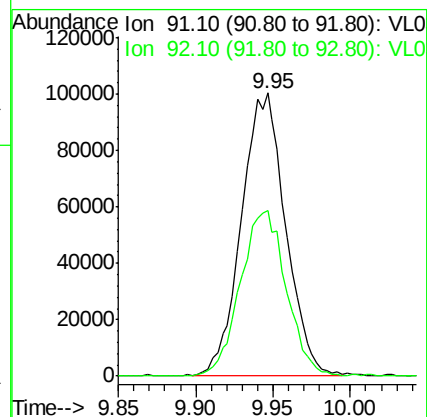
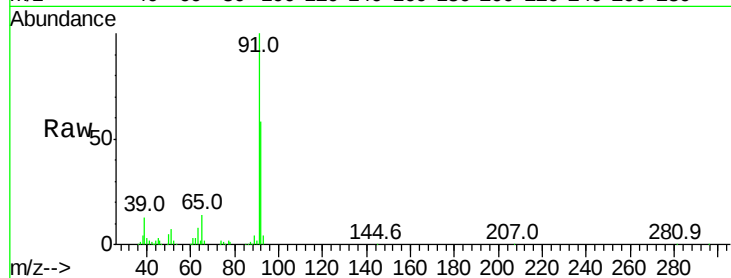
VSTDIC0.5

Tgt Ion: 91 Resp: 198246

Ion Ratio Lower Upper

91 100

92 61.2 48.9 73.3



#54

1,2-Dibromoethane

Concen: 0.427 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VL033153.D

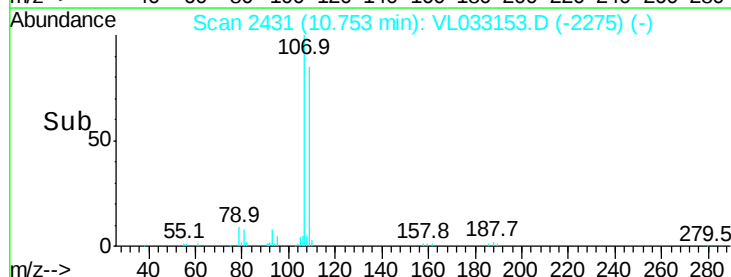
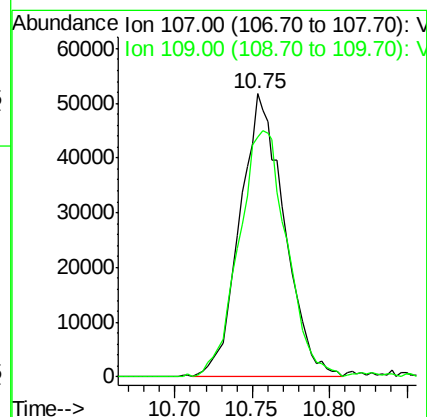
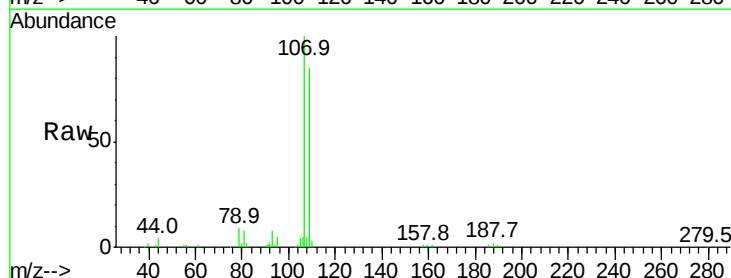
Acq: 4 Feb 2019 11:57

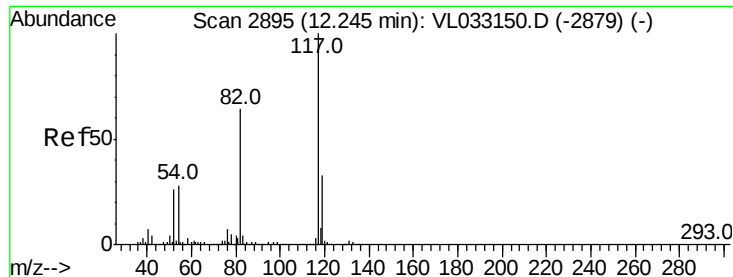
Tgt Ion: 107 Resp: 102931

Ion Ratio Lower Upper

107 100

109 84.8 74.7 112.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

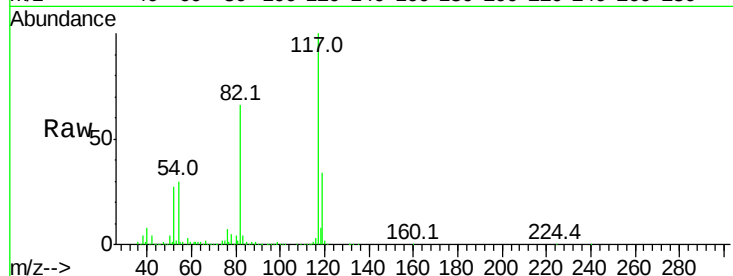
Tgt Ion:117 Resp: 3414295

Ion Ratio Lower Upper

117 100

82 64.7 49.3 73.9

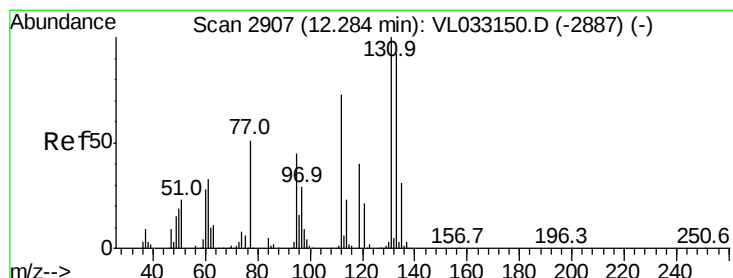
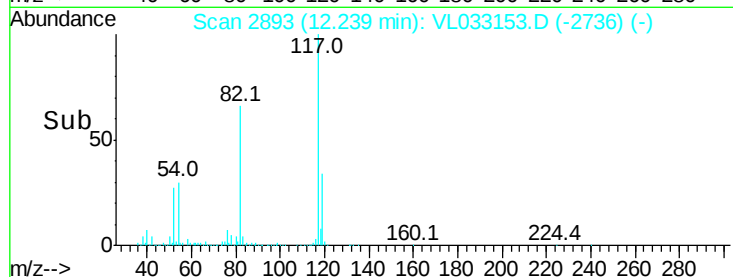
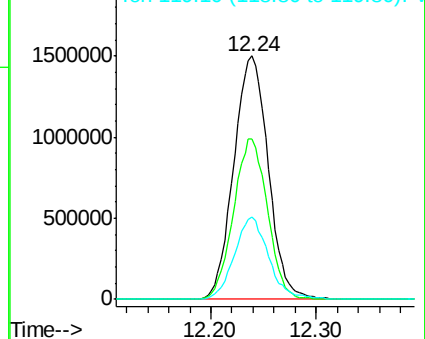
119 33.5 27.1 40.7



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.517 ppbv

RT: 12.28 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

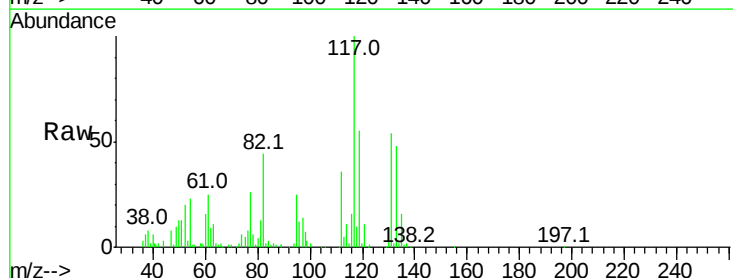
Tgt Ion:131 Resp: 78568

Ion Ratio Lower Upper

131 100

133 92.1 76.2 114.4

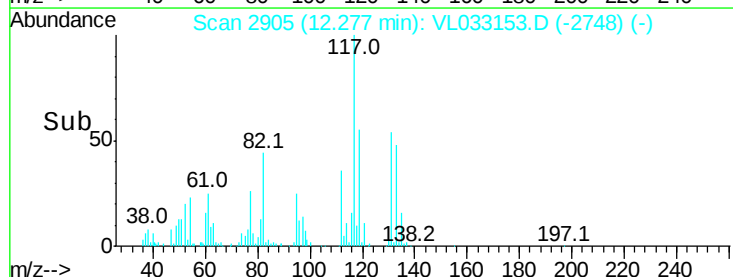
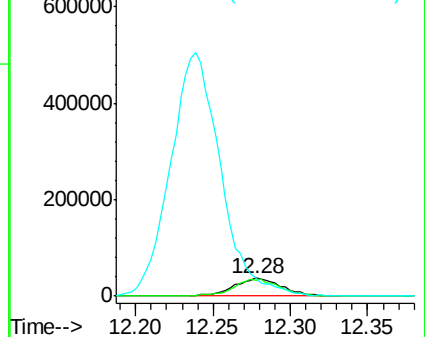
119 1456.9 46.9 70.3#

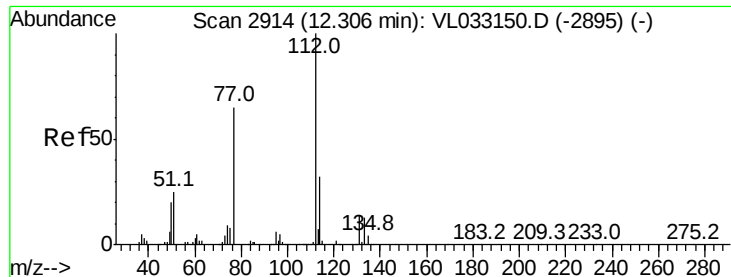


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.525 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

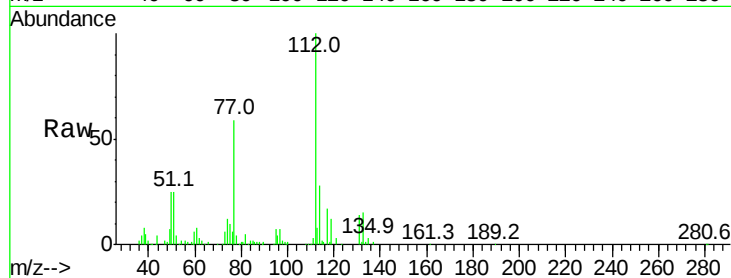
Tgt Ion: 112 Resp: 157862

Ion Ratio Lower Upper

112 100

77 58.6 52.8 79.2

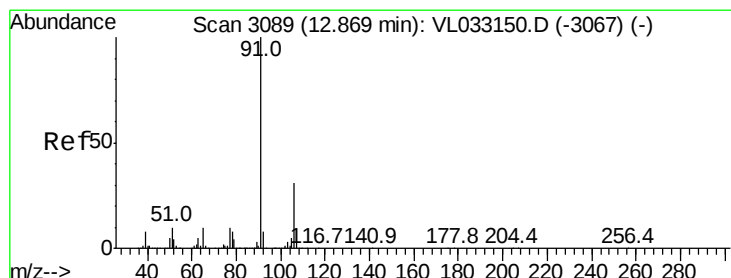
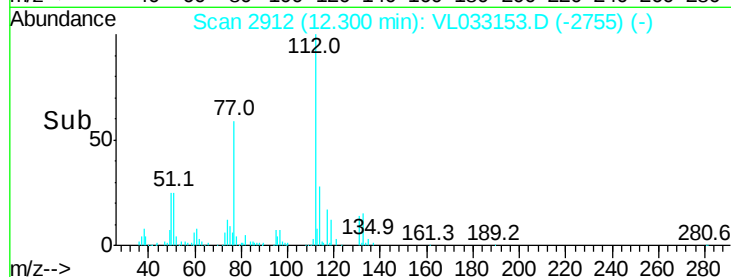
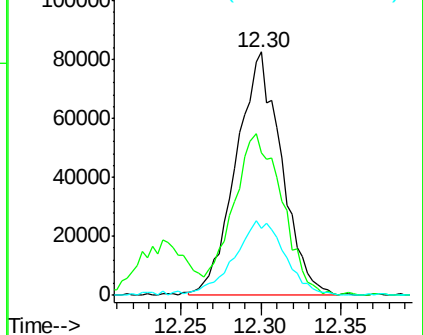
114 27.8 29.7 36.3#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.527 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VL033153.D

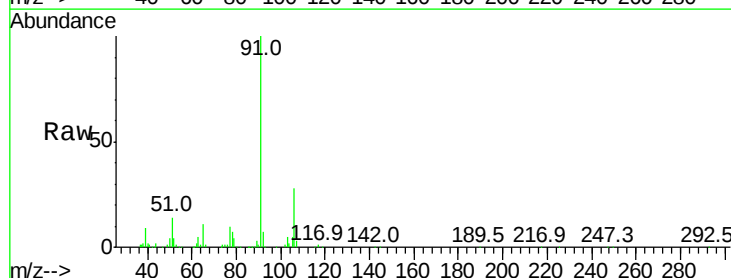
Acq: 4 Feb 2019 11:57

Tgt Ion: 91 Resp: 295033

Ion Ratio Lower Upper

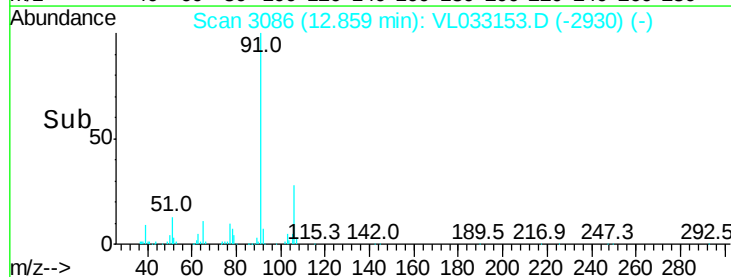
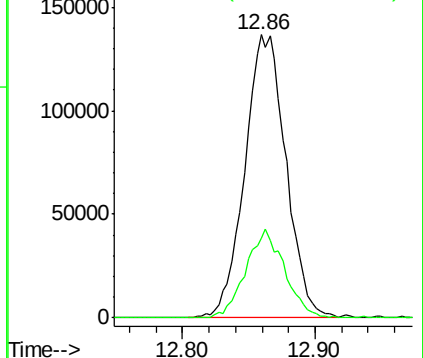
91 100

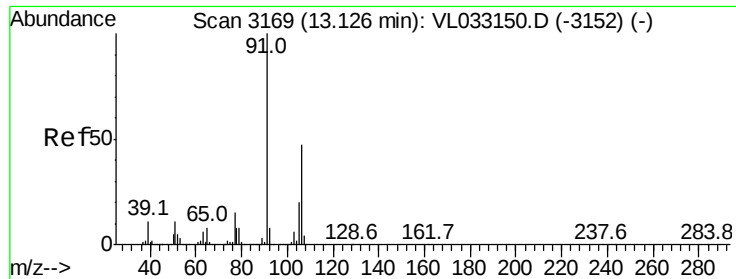
106 28.3 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.530 ppbv

RT: 13.12 min Scan# 3166

Delta R.T. -0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

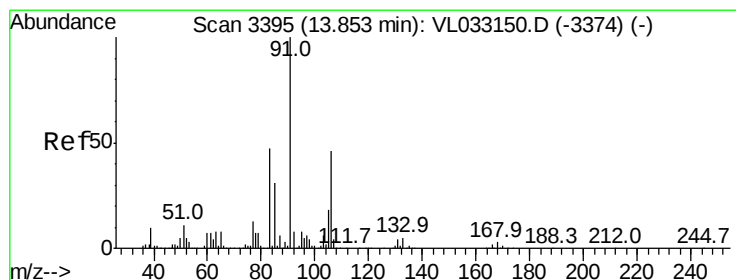
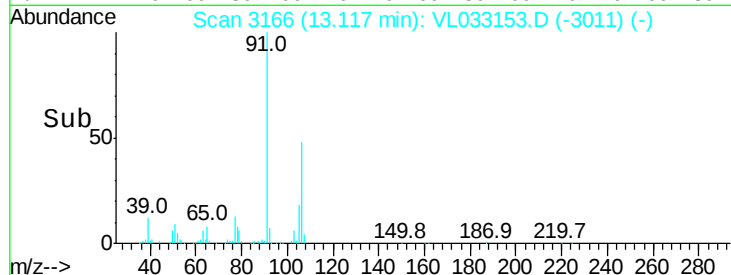
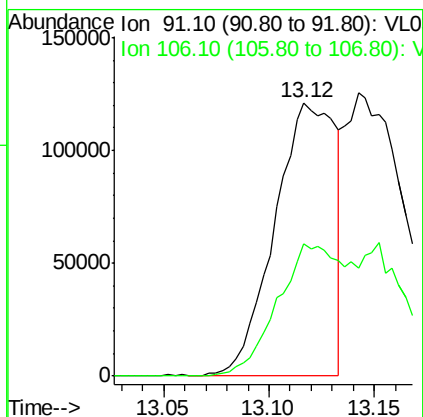
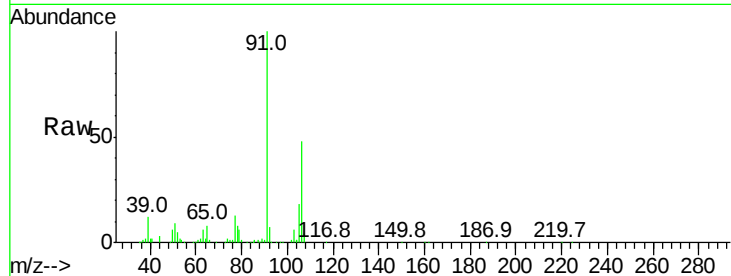
VSTDIC0.5

Tgt Ion: 91 Resp: 241894

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 0.540 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VL033153.D

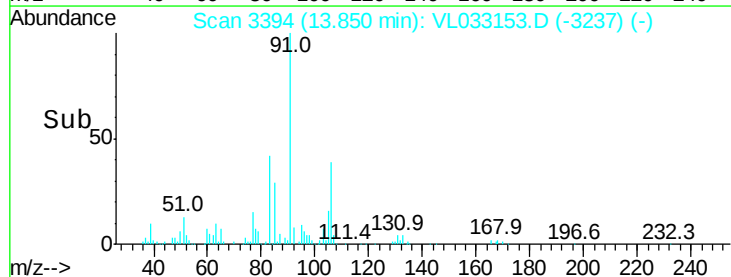
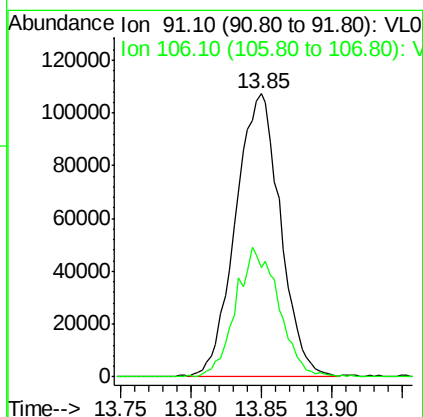
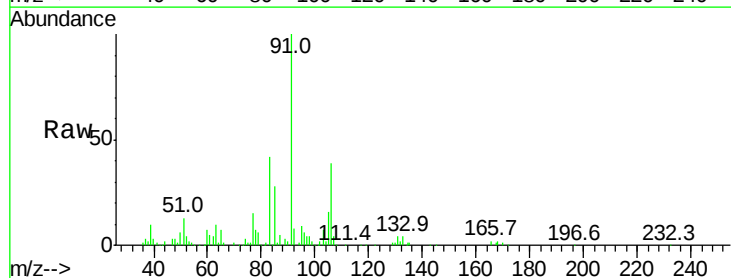
Acq: 4 Feb 2019 11:57

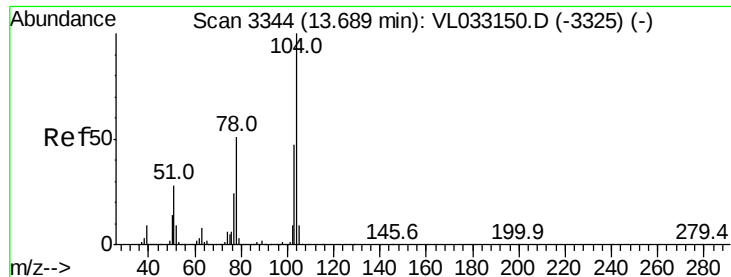
Tgt Ion: 91 Resp: 238428

Ion Ratio Lower Upper

91 100

106 44.0 23.2 69.5





#61

Styrene

Concen: 0.504 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

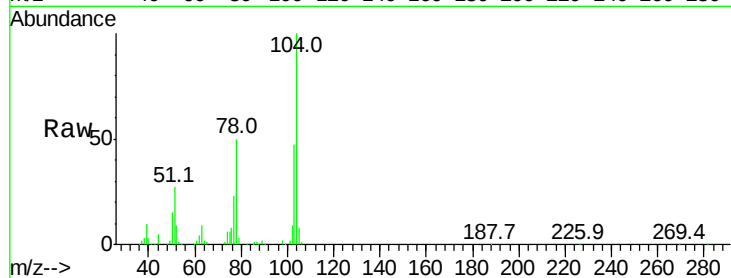
Tgt Ion:104 Resp: 170759

Ion Ratio Lower Upper

104 100

78 53.0 39.7 59.5

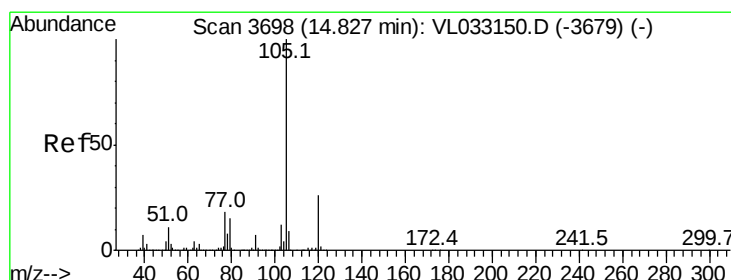
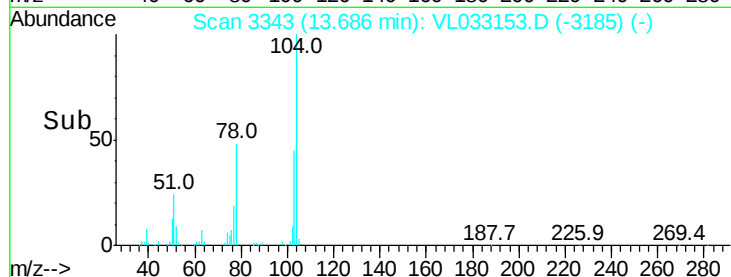
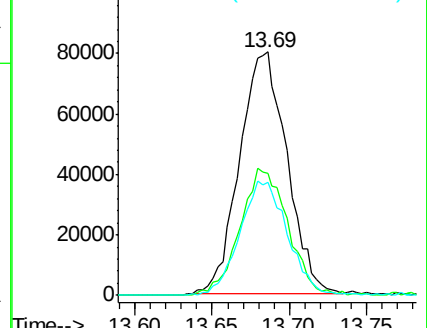
103 47.7 37.7 56.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.548 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VL033153.D

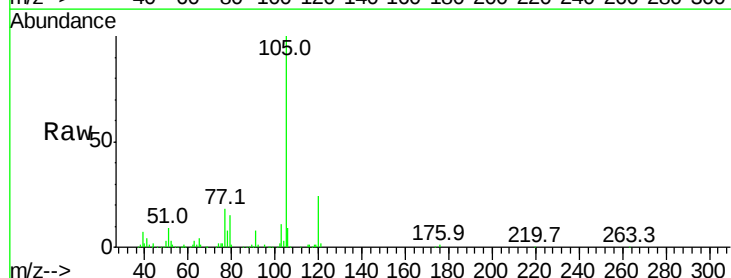
Acq: 4 Feb 2019 11:57

Tgt Ion:105 Resp: 344047

Ion Ratio Lower Upper

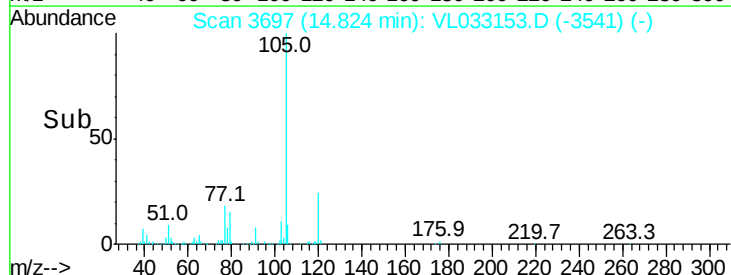
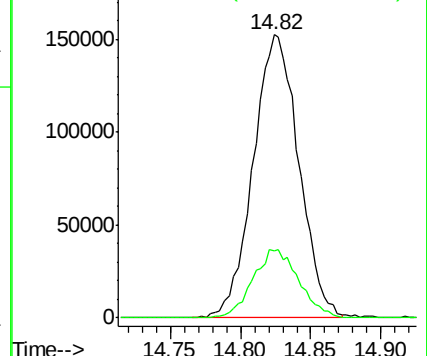
105 100

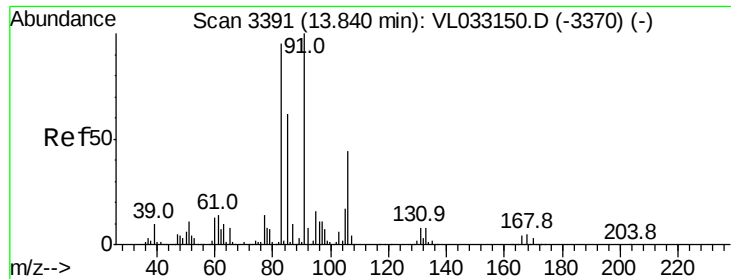
120 24.5 20.8 31.2



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: 0.518 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

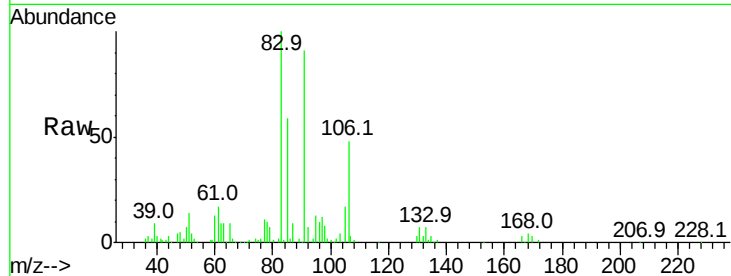
Tgt Ion: 83 Resp: 172799

Ion Ratio Lower Upper

83 100

131 8.3 4.5 13.7

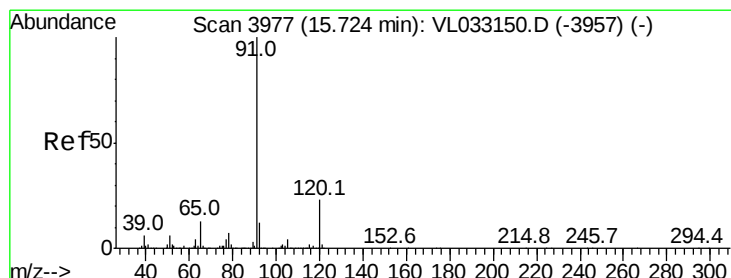
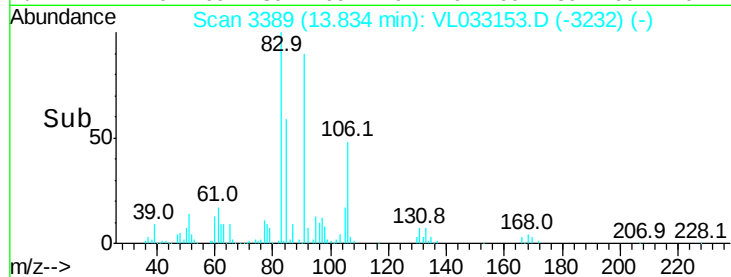
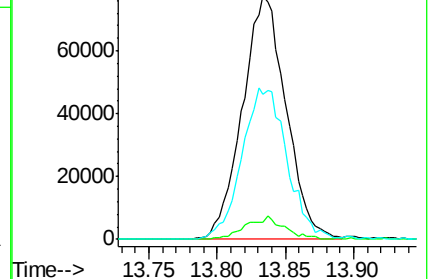
85 64.4 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.540 ppbv

RT: 15.72 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VL033153.D

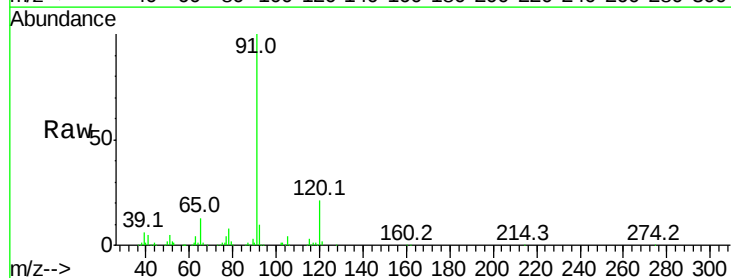
Acq: 4 Feb 2019 11:57

Tgt Ion: 120 Resp: 86909

Ion Ratio Lower Upper

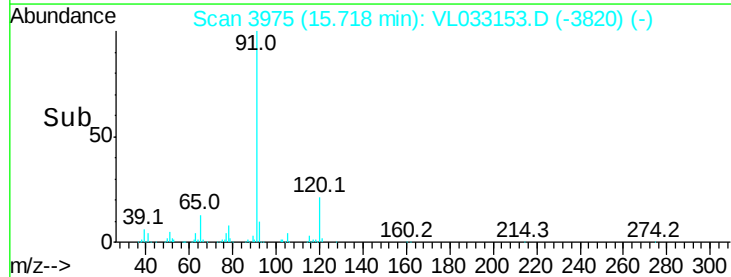
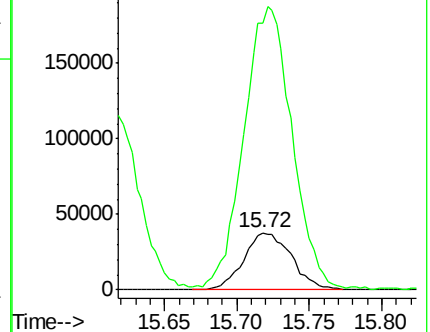
120 100

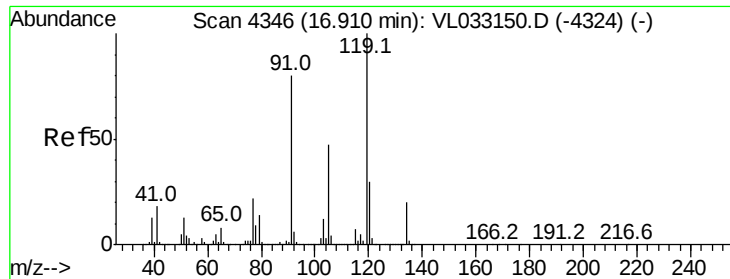
91 504.9 370.2 555.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

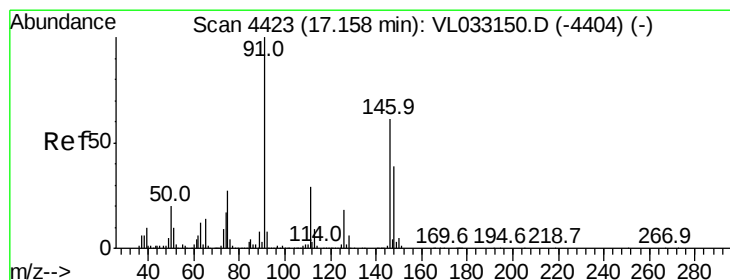
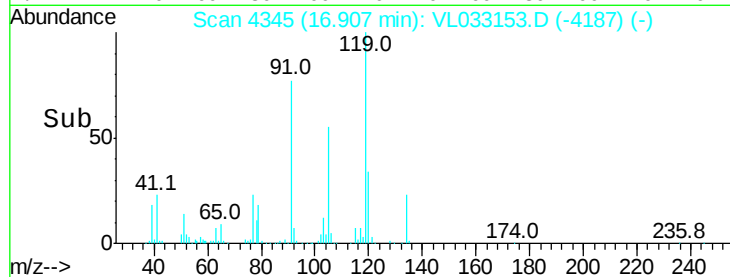
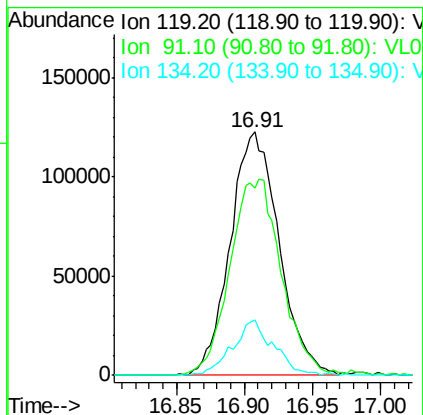
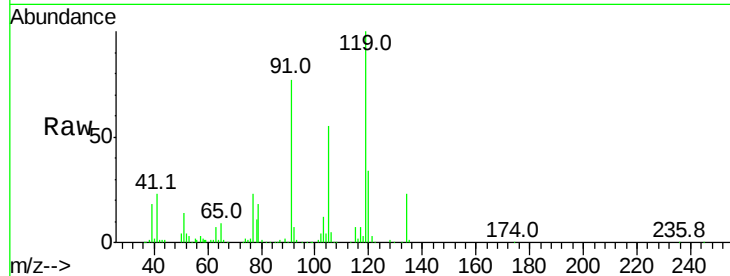




#65
 tert-Butylbenzene
 Concen: 0.577 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. 0.01 min
 Lab File: VL033153.D
 Acq: 4 Feb 2019 11:57

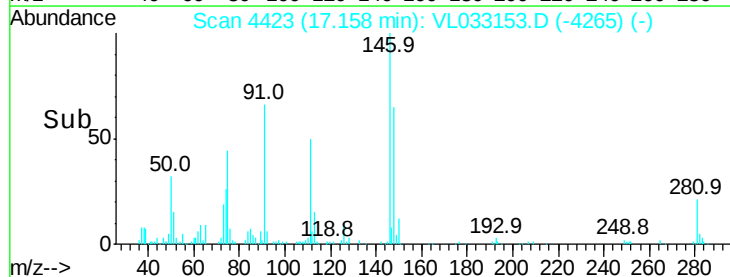
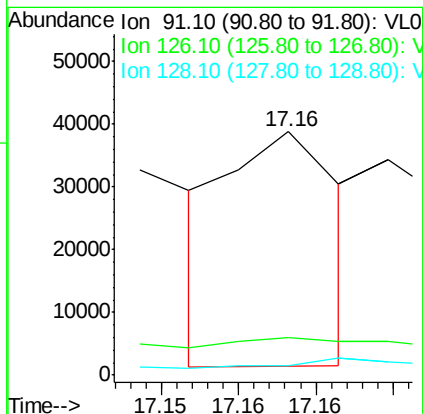
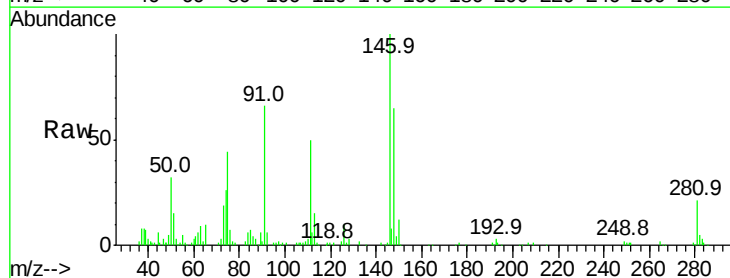
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

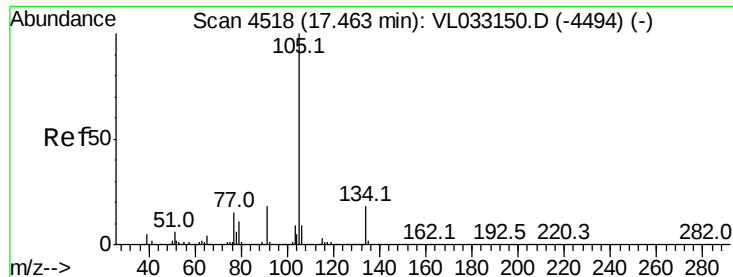
Tgt Ion: 119 Resp: 304972
 Ion Ratio Lower Upper
 119 100
 91 85.2 63.0 94.6
 134 19.2 15.5 23.3



#66
 Benzyl Chloride
 Concen: 0.080 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.01 min
 Lab File: VL033153.D
 Acq: 4 Feb 2019 11:57

Tgt Ion: 91 Resp: 18935
 Ion Ratio Lower Upper
 91 100
 126 68.6 14.9 22.3#
 128 0.0 4.7 7.1#





#67

sec-Butylbenzene

Concen: 0.572 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

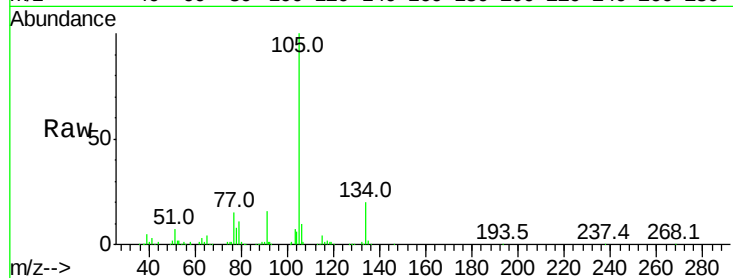
VSTDIC0.5

Tgt Ion:105 Resp: 429078

Ion Ratio Lower Upper

105 100

134 17.9 14.4 21.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.46

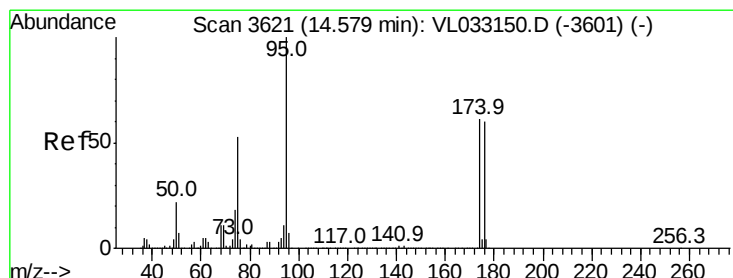
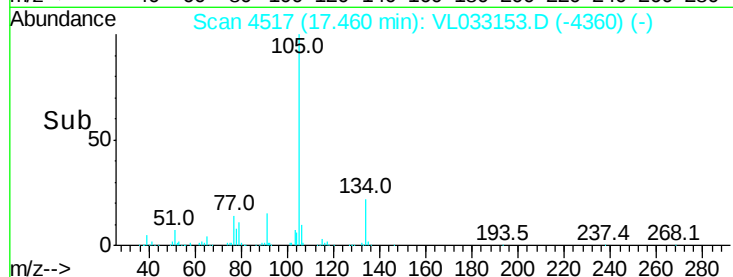
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.293 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

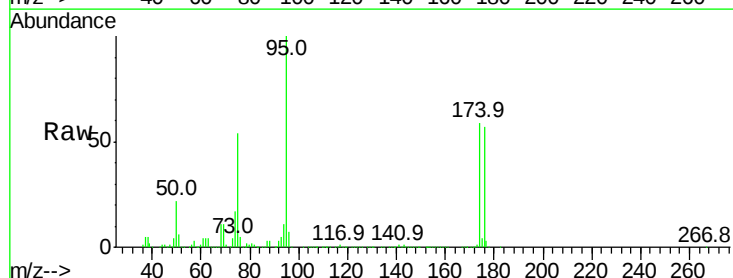
Tgt Ion: 95 Resp: 2653395

Ion Ratio Lower Upper

95 100

174 59.6 49.2 73.8

175 4.5 3.7 5.5



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

14.58

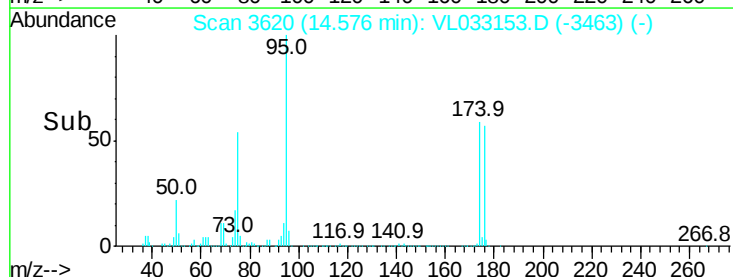
1500000

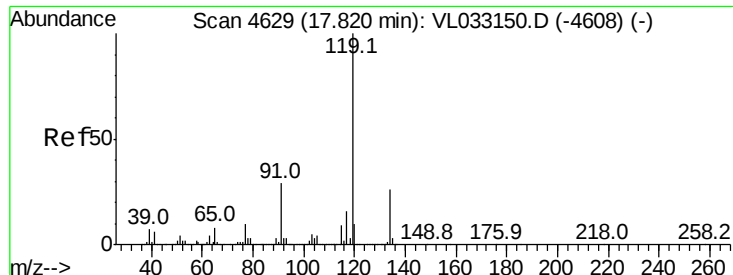
1000000

500000

0

Time-->

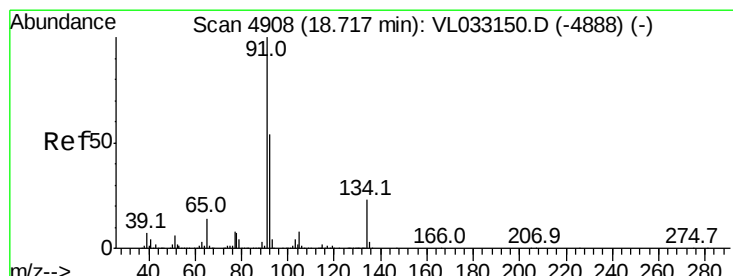
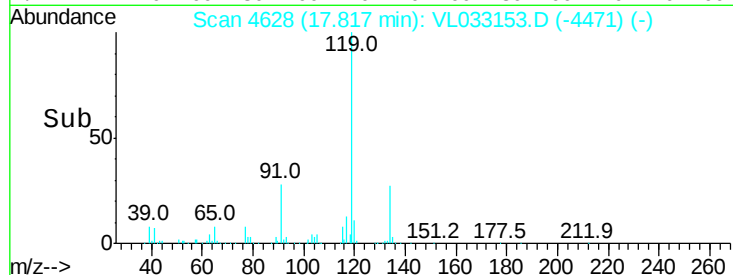
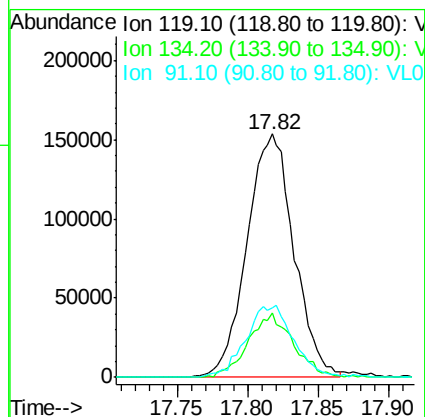
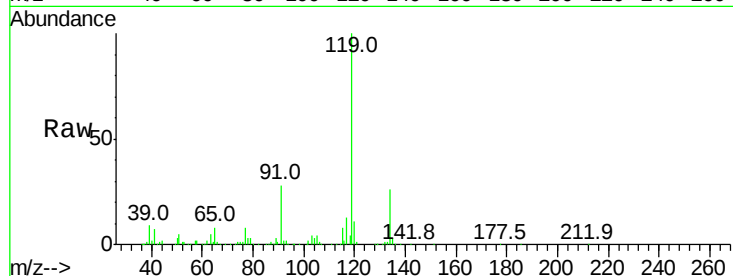




#69
p-Isopropyltoluene
Concen: 0.604 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. 0.00 min
Lab File: VL033153.D
Acq: 4 Feb 2019 11:57

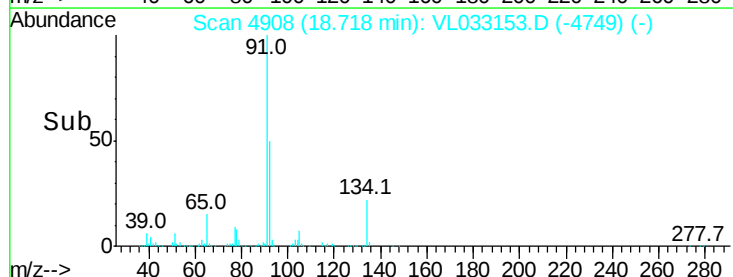
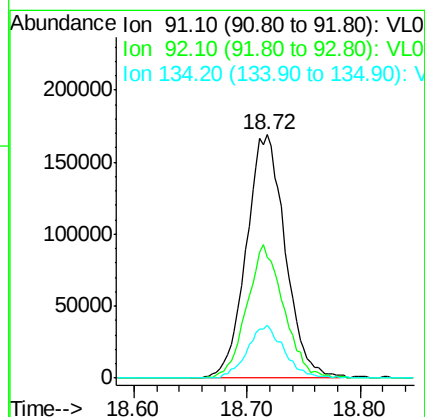
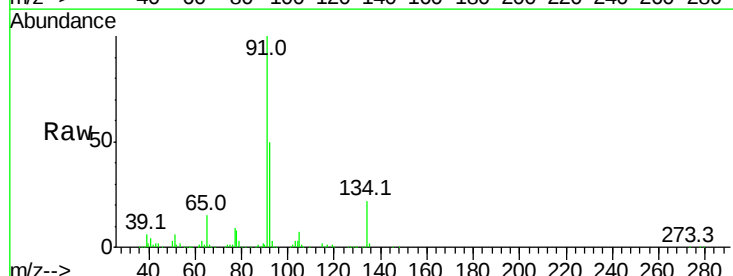
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

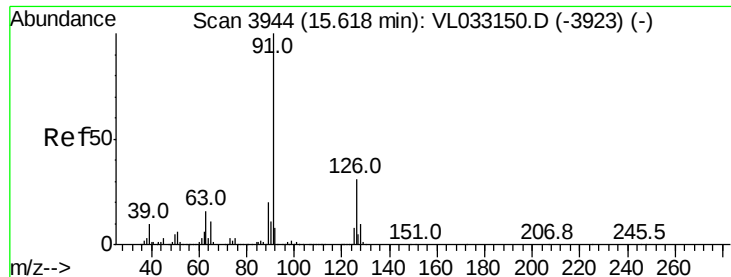
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.3	30.5
91	30.7	22.6	33.8



#70
n-Butylbenzene
Concen: 0.670 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.01 min
Lab File: VL033153.D
Acq: 4 Feb 2019 11:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.1	43.7	65.5
134	20.7	18.4	27.6





#71

2-Chlorotoluene

Concen: 0.557 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

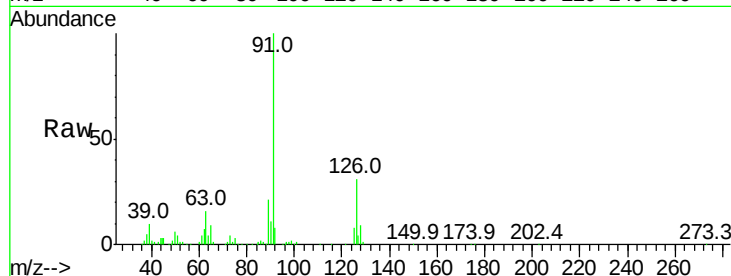
VSTDIC0.5

Tgt Ion: 91 Resp: 266380

Ion Ratio Lower Upper

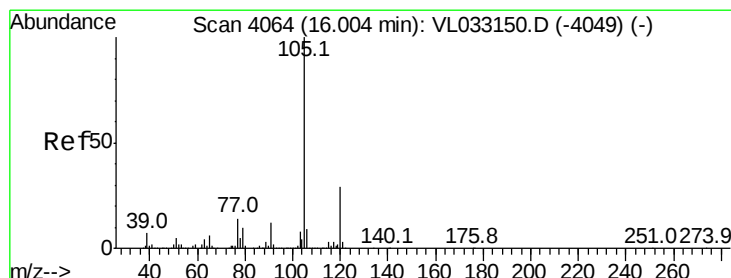
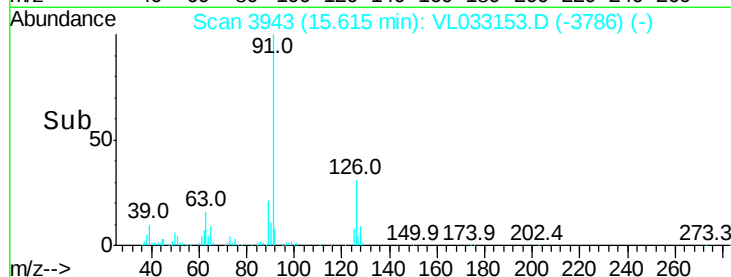
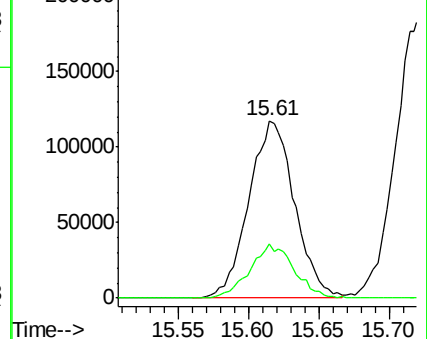
91 100

126 29.6 12.3 49.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.553 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion: 105 Resp: 273728

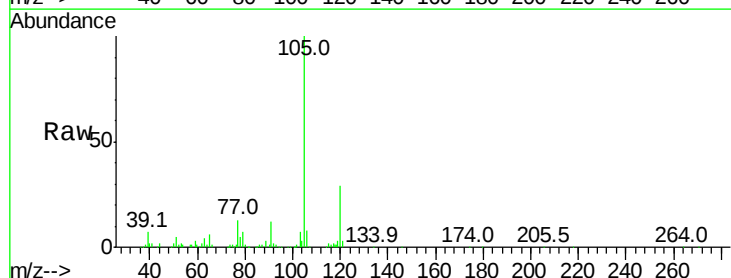
Ion Ratio Lower Upper

105 100

120 28.4 23.2 34.8

91 12.4 9.5 14.3

77 13.7 10.2 15.4

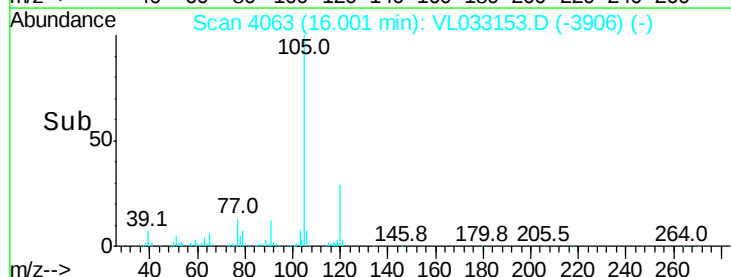
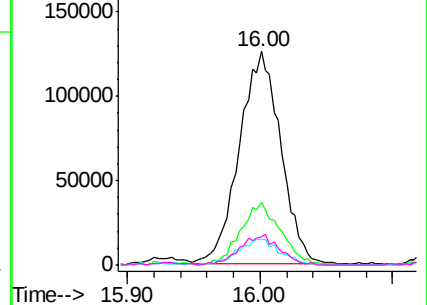


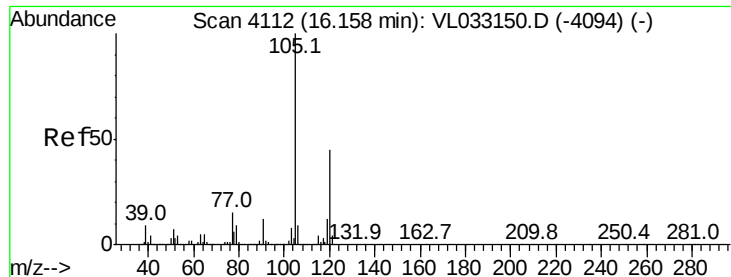
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.600 ppbv

RT: 16.16 min Scan# 4111

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

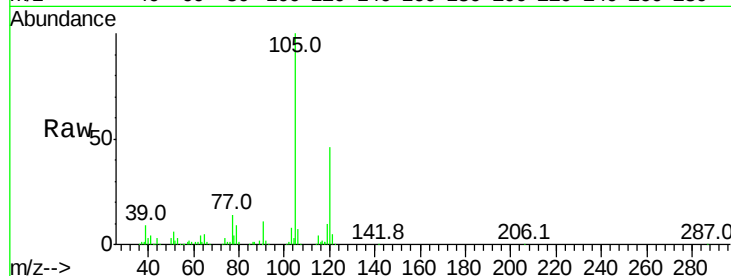
VSTDIC0.5

Tgt Ion:105 Resp: 267977

Ion Ratio Lower Upper

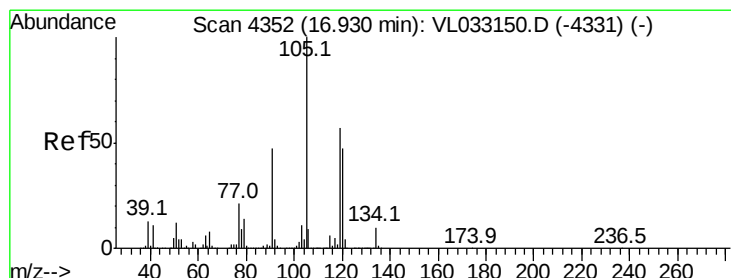
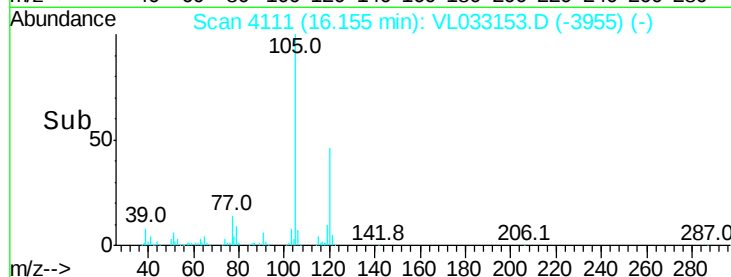
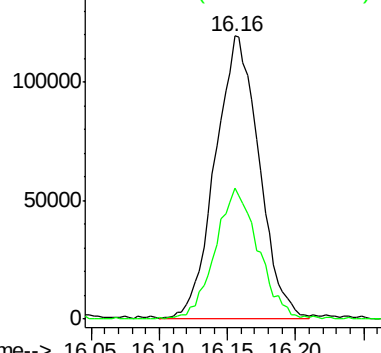
105 100

120 46.0 38.0 57.0



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: 0.639 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Tgt Ion:105 Resp: 280867

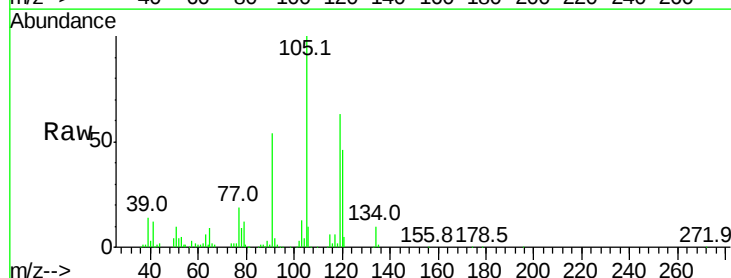
Ion Ratio Lower Upper

105 100

120 45.6 38.2 57.4

91 53.6 35.0 52.4#

77 18.6 15.8 23.6

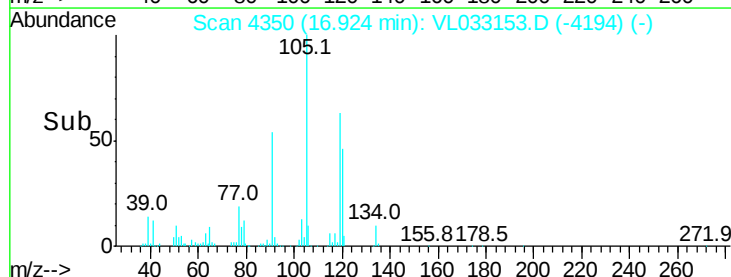
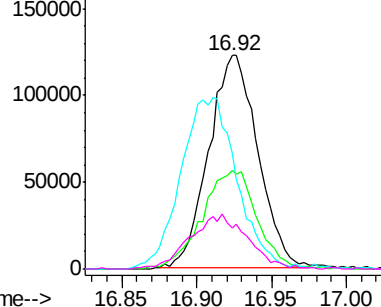


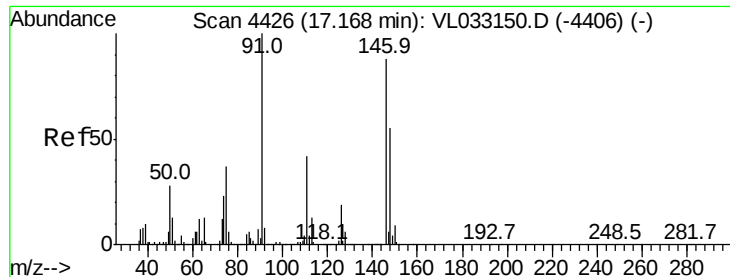
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.589 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

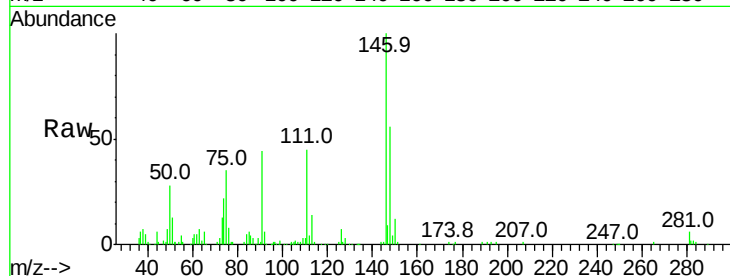
Tgt Ion:146 Resp: 154312

Ion Ratio Lower Upper

146 100

111 47.6 24.0 72.0

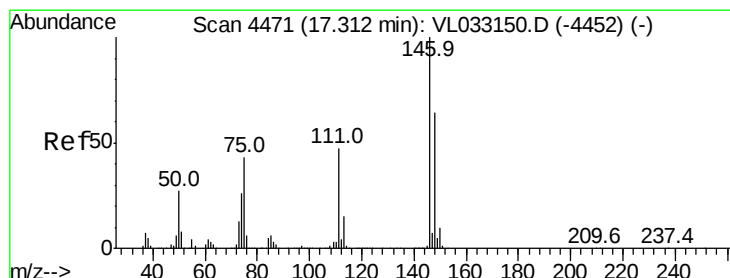
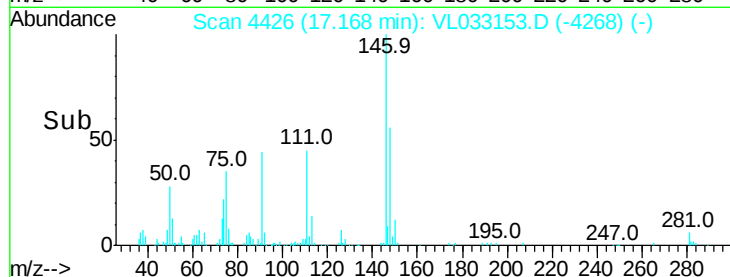
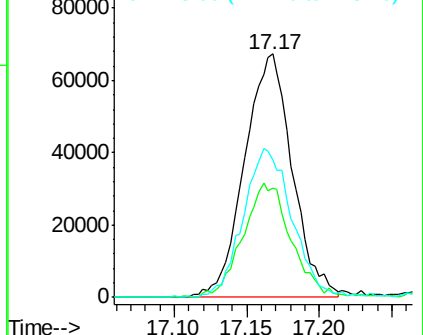
148 63.3 31.9 95.7



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



#76

1,4-Dichlorobenzene

Concen: 0.318 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

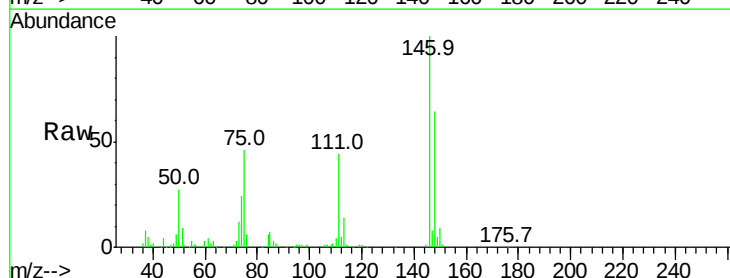
Tgt Ion:146 Resp: 83200

Ion Ratio Lower Upper

146 100

111 0.0 23.4 70.0#

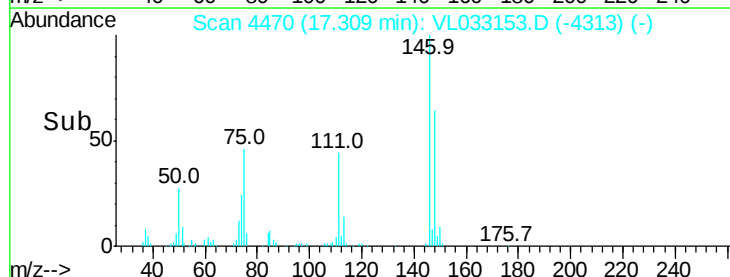
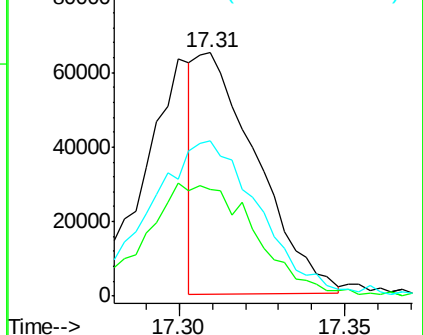
148 117.9 31.9 95.9#

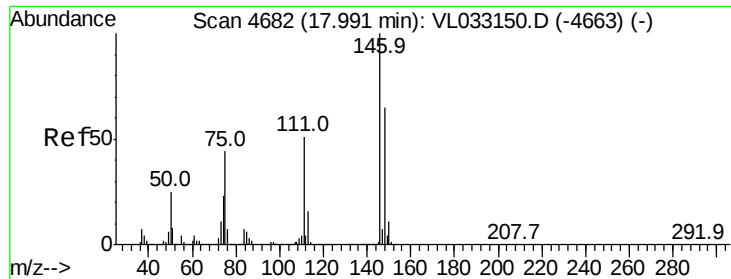


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.609 ppbv

RT: 17.98 min Scan# 4680

Delta R.T. 0.00 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

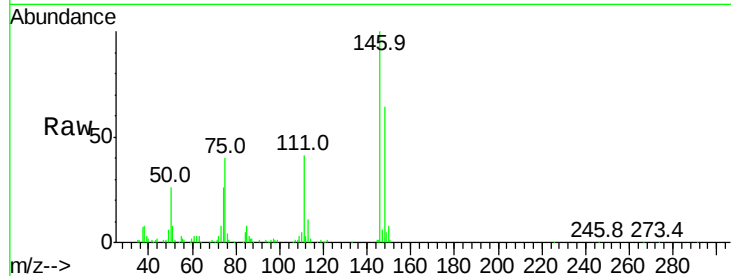
Tgt Ion:146 Resp: 153796

Ion Ratio Lower Upper

146 100

111 48.9 25.1 75.3

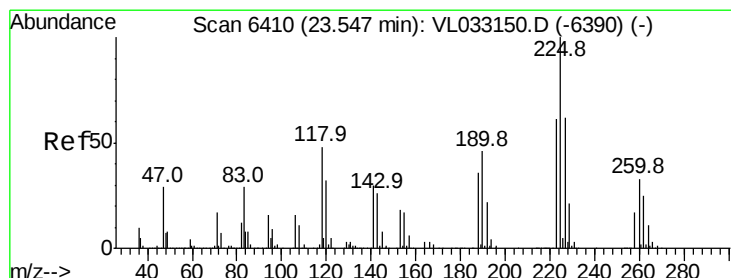
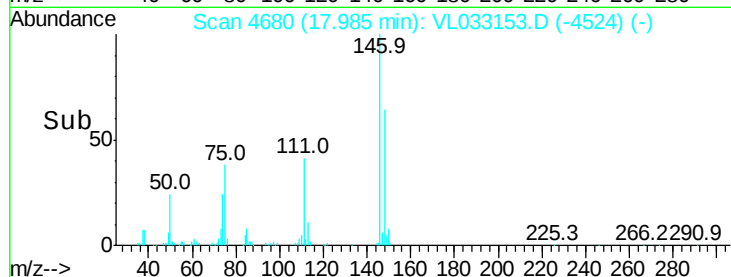
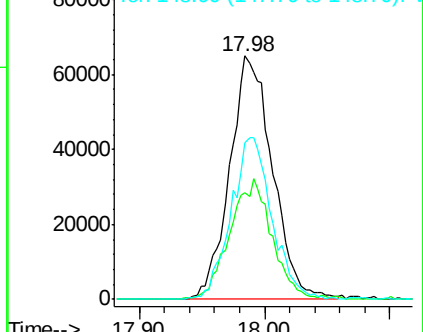
148 63.5 32.0 96.2



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: 0.284 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

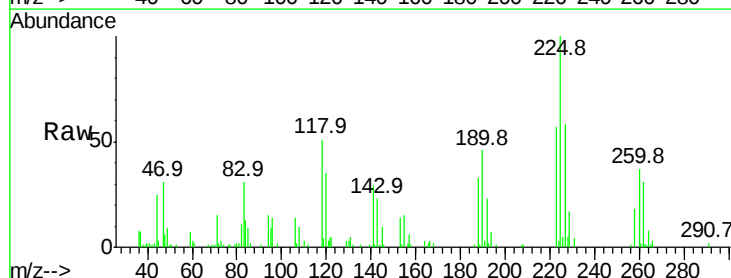
Tgt Ion:225 Resp: 33302

Ion Ratio Lower Upper

225 100

223 0.0 50.2 75.4#

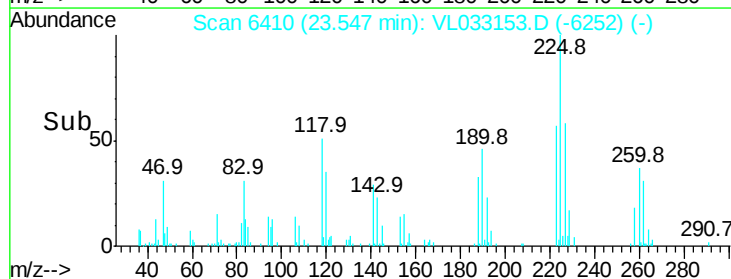
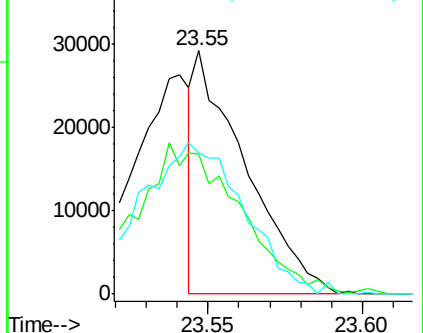
227 131.0 51.1 76.7#

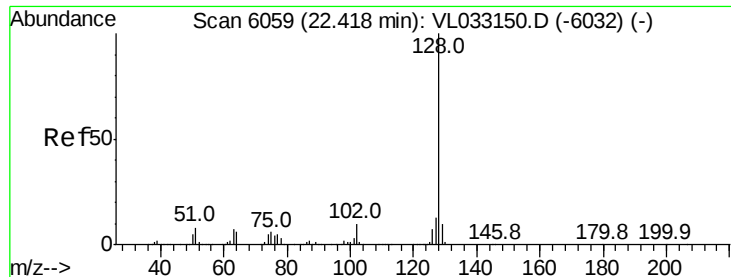


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.595 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

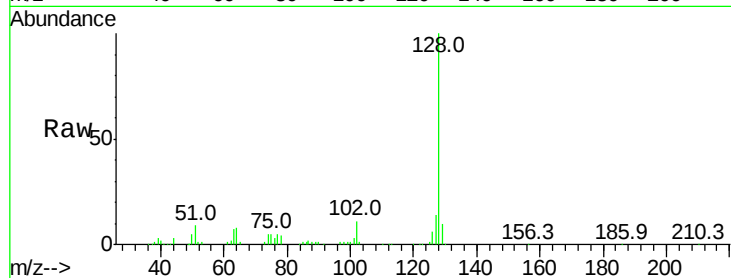
Tgt Ion:128 Resp: 171681

Ion Ratio Lower Upper

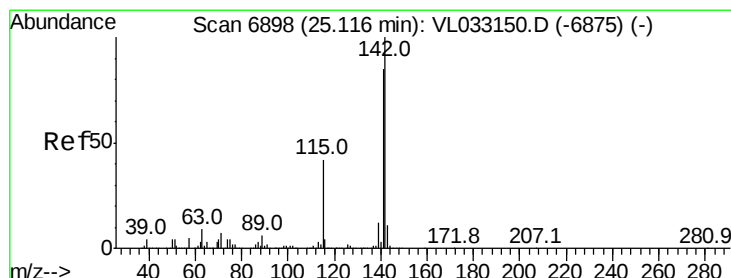
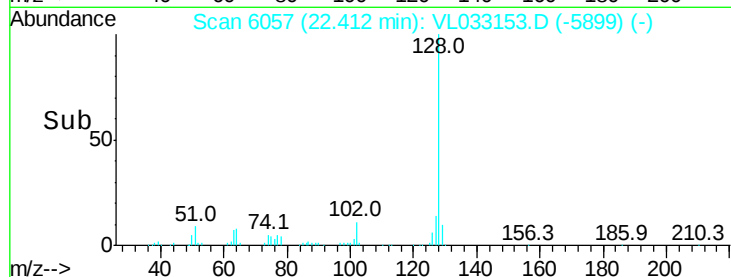
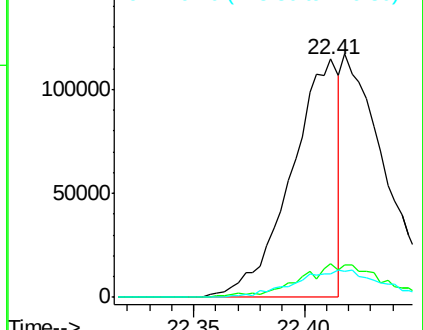
128 100

127 14.1 10.6 16.0

129 10.0 9.0 13.4



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: 2.022 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL033153.D

Acq: 4 Feb 2019 11:57

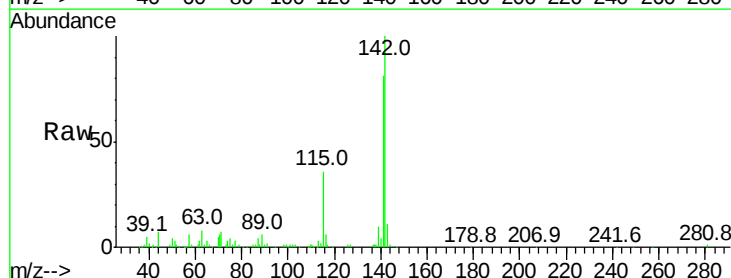
Tgt Ion:142 Resp: 171986

Ion Ratio Lower Upper

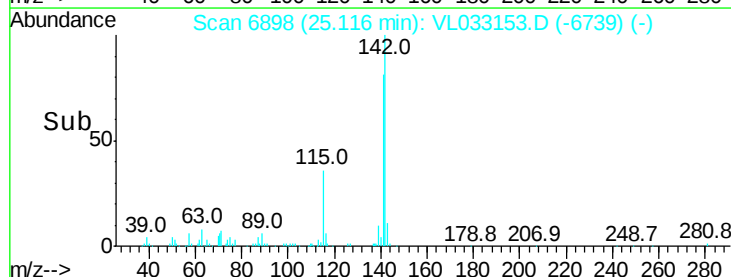
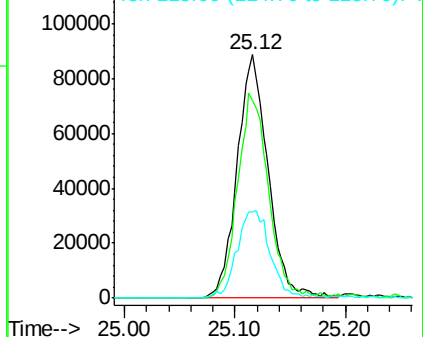
142 100

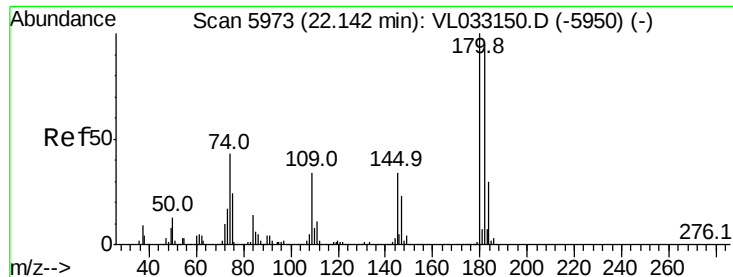
141 84.6 66.5 99.7

115 38.9 31.3 46.9



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

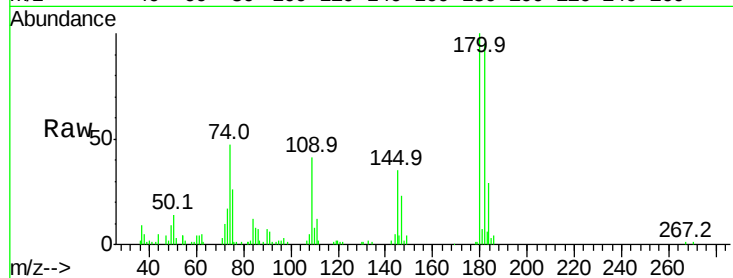




#81
 1,2,4-Trichlorobenzene
 Concen: 0.989 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.01 min
 Lab File: VL033153.D
 Acq: 4 Feb 2019 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.2	114.4
184	30.8	24.6	36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

