

Data File : VL033156.D
Acq On : 4 Feb 2019 13:51
Operator : SY/AP
Sample : VSTDIC15
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Quant Time: Feb 04 14:24:29 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	5.77	49	1323737	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.30	114	3153795	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.25	117	3564093	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2481375	9.22	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.20%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.08	85	2802123	14.115	ppbv 99
3) Chlorodifluoromethane	3.02	51	1841669	8.651	ppbv 99
4) Chloromethane	3.17	50	1039611	8.483	ppbv 100
5) Vinyl Chloride	3.29	62	973485	7.261	ppbv 97
6) Bromomethane	3.52	94	559530	9.471	ppbv 97
7) Chloroethane	3.60	64	344575	9.524	ppbv 93
8) Dichlorotetrafluoroethane	3.22	85	2153107	8.770	ppbv 98
9) Propene	3.04	41	900497	8.277	ppbv 98
10) Heptane	8.25	43	2661306	13.129	ppbv 99
11) Trichlorofluoromethane	4.01	101	2262182	10.828	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1479801	11.130	ppbv 97
13) Ethanol	3.65	45	186789	6.069	ppbv 98
14) Bromoethene	3.79	108	687283	10.219	ppbv 98
15) Acetone	3.90	43	1614497	9.621	ppbv 99
16) 1,3-Butadiene	3.37	39	804761	10.003	ppbv 98
17) tert-Butyl alcohol	4.36	59	341098	8.431	ppbv 99
18) 1,1-Dichloroethene	4.35	96	710330	11.059	ppbv 96
19) Isopropyl Alcohol	4.03	45	1101177	8.583	ppbv # 46
20) Methylene Chloride	4.41	84	597531	9.204	ppbv 96
21) Allyl Chloride	4.48	41	1190678	11.045	ppbv 98
22) trans-1,2-Dichloroethene	4.97	96	717978	11.996	ppbv 97
23) Vinyl Acetate	5.16	43	3181181	10.917	ppbv 99
24) 1,1-Dichloroethane	5.10	63	2092629	10.764	ppbv 99
25) Ethyl Acetate	5.78	43	4195611	11.673	ppbv 100
26) Hexane	5.79	57	1910183	10.855	ppbv 99
27) Carbon Disulfide	4.62	76	1788253	12.585	ppbv 97
28) Methyl tert-Butyl Ether	5.12	73	2600209	10.280	ppbv 100
29) Chloroform	5.86	83	3026091	12.731	ppbv 99
30) Cyclohexane	7.25	84	1685461	12.354	ppbv 99
31) cis-1,2-Dichloroethene	5.65	61	1703445	10.600	ppbv 97
32) 1,1,1-Trichloroethane	6.63	97	2883952	11.750	ppbv # 83
34) 2-Butanone	5.33	43	2467956	10.237	ppbv 100
35) Carbon Tetrachloride	7.14	117	2880279	12.172	ppbv 100
36) Benzene	7.01	78	4094589	11.577	ppbv 98
37) 1,2-Dichloroethane	6.42	62	2290960	12.722	ppbv 99
38) Trichloroethene	7.97	130	1401501	9.841	ppbv 97
39) 1,2-Dichloropropane	7.74	63	1610599	12.425	ppbv 97
40) 1,4-Dioxane	7.96	88	501914	10.996	ppbv 75
41) Tetrahydrofuran	6.15	42	1754040	12.111	ppbv 99
42) Bromodichloromethane	7.92	83	3248939	12.657	ppbv 98
43) Methyl Methacrylate	8.14	69	1703301	13.746	ppbv 99

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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	8.00	57	6572004	11.516	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	2296061	15.338	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	2580809	14.379	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1628773	13.776	ppbv	93
48) Dibromochloromethane	10.46	129	2705132	13.726	ppbv	100
49) Bromoform	13.21	173	2244189	13.725	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	4156837	13.275	ppbv	100
51) 2-Hexanone	10.28	43	3425063	12.278	ppbv #	100
52) Tetrachloroethene	11.38	164	1315866	9.808	ppbv	99
53) Toluene	9.96	91	4720415	11.657	ppbv	99
54) 1,2-Dibromoethane	10.77	107	2562899	11.524	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1814485	11.445	ppbv	96
57) Chlorobenzene	12.31	112	3322980	10.594	ppbv	96
58) Ethyl Benzene	12.87	91	6303451	10.783	ppbv	99
59) m/p-Xylene	13.13	91	4450305	9.334	ppbv #	30
60) o-Xylene	13.86	91	4850668	10.518	ppbv	97
61) Styrene	13.69	104	3997094	11.299	ppbv	98
62) Isopropylbenzene	14.83	105	6991622	10.664	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	3391987	9.749	ppbv	100
64) n-propylbenzene	15.73	120	1858068	11.060	ppbv	97
65) tert-Butylbenzene	16.92	119	5993341	10.862	ppbv	96
66) Benzyl Chloride	17.16	91	3654321	14.786	ppbv	98
67) sec-Butylbenzene	17.47	105	8693151	11.092	ppbv	99
69) p-Isopropyltoluene	17.82	119	7208295	11.669	ppbv	98
70) n-Butylbenzene	18.72	91	7831549	12.461	ppbv	99
71) 2-Chlorotoluene	15.62	91	5592831	11.208	ppbv	98
72) 4-Ethyltoluene	16.01	105	5973621	11.556	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5649882	12.123	ppbv	98
74) 1,2,4-Trimethylbenzene	16.94	105	5504221	11.991	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3106290	11.358	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	3208246	11.748	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	3148517	11.936	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	2252807	18.434	ppbv	99
79) Naphthalene	22.42	128	6379330	21.195	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	3022516	34.044	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	2921924	18.442	ppbv	100

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

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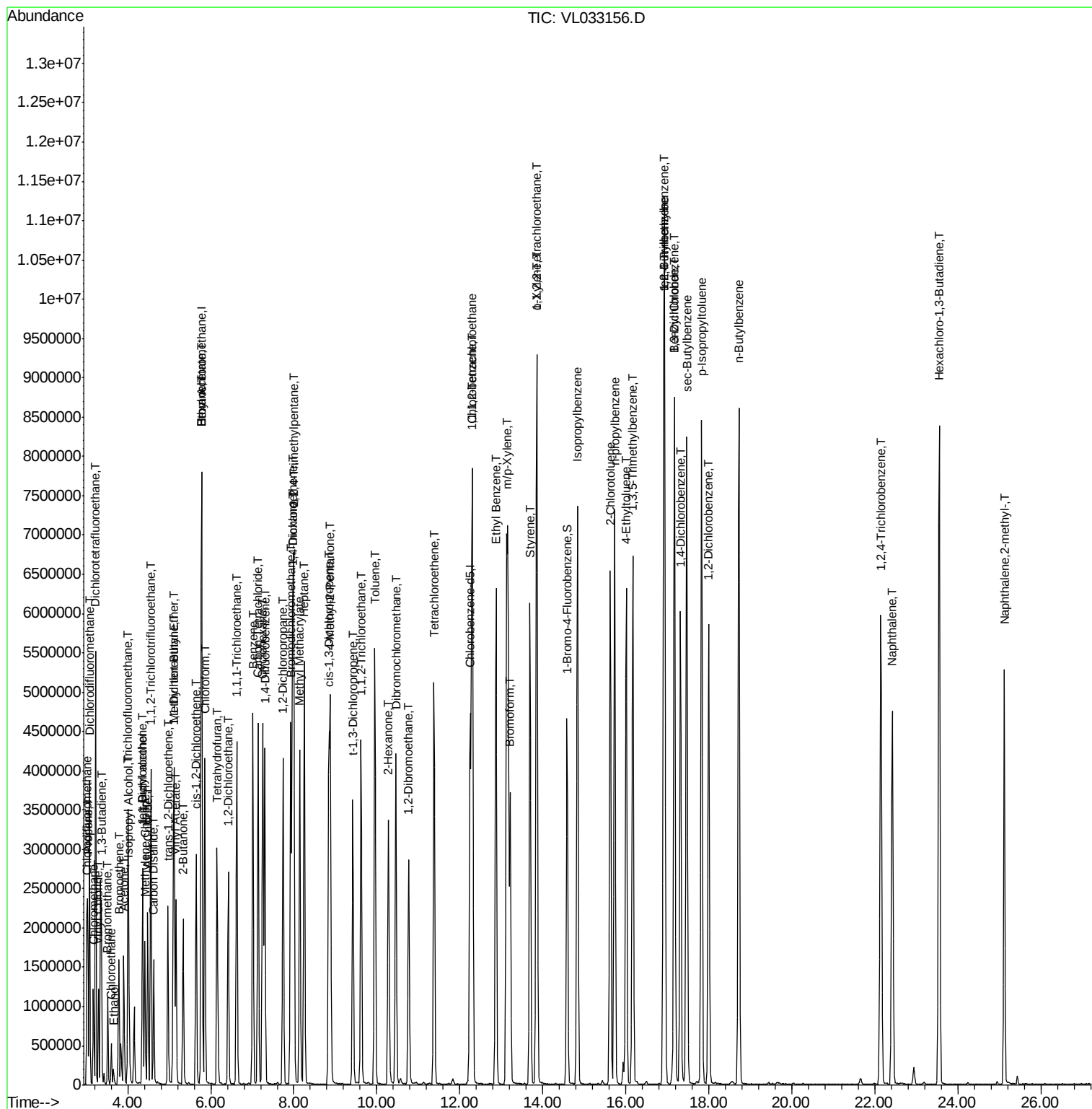
Quant Time: Feb 04 14:24:29 2019

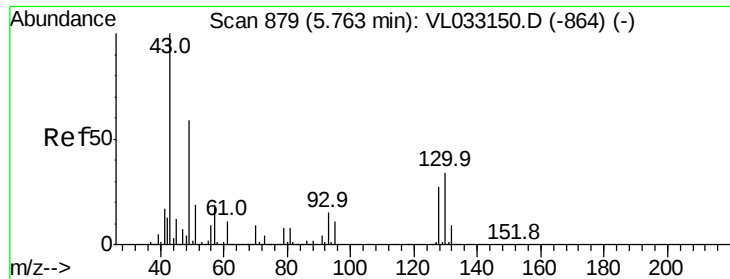
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL020419AIR.M

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: 5.77 min Scan# 881

Delta R.T. 0.01 min

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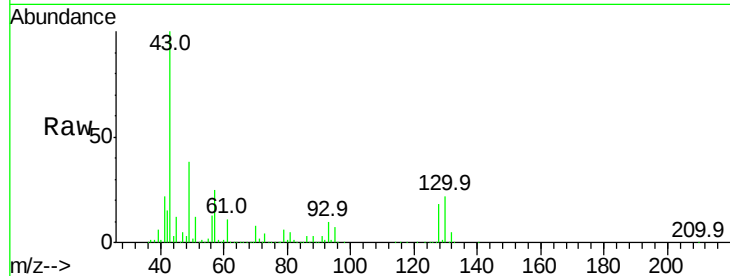
Tgt Ion: 49 Resp: 1323737

Ion Ratio Lower Upper

49 100

128 45.4 23.2 69.5

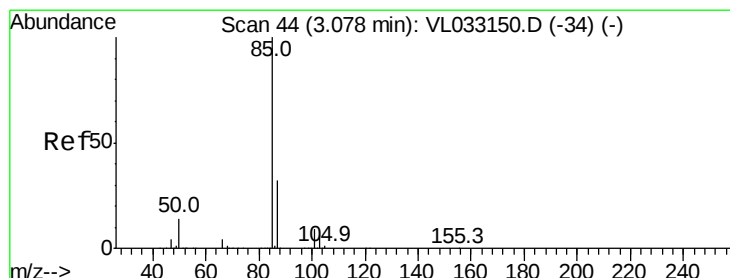
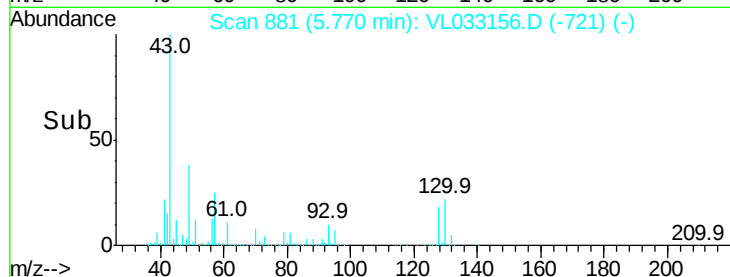
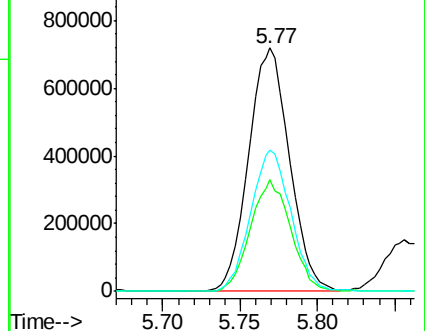
130 57.7 29.5 88.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 14.115 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.01 min

Lab File: VL033156.D

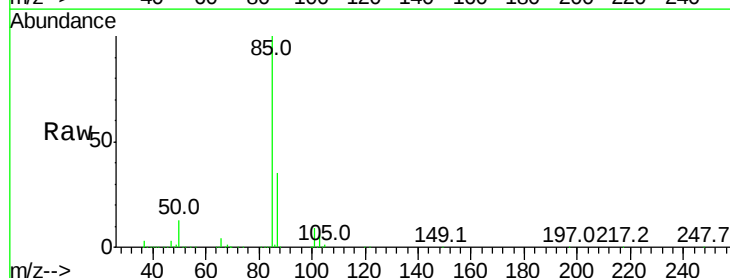
Acq: 4 Feb 2019 13:51

Tgt Ion: 85 Resp: 2802123

Ion Ratio Lower Upper

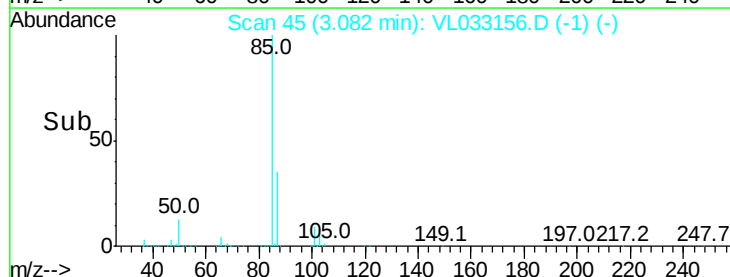
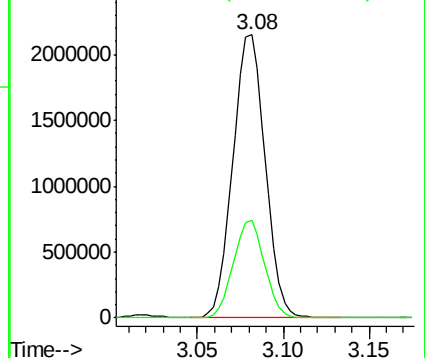
85 100

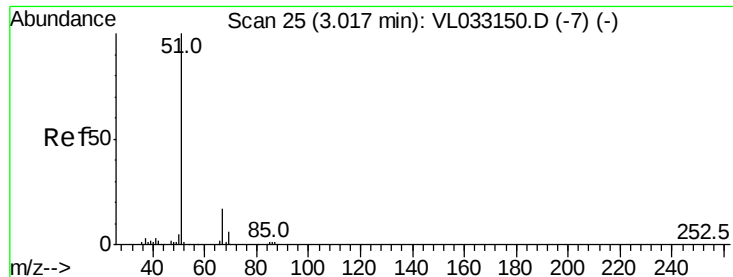
87 34.6 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

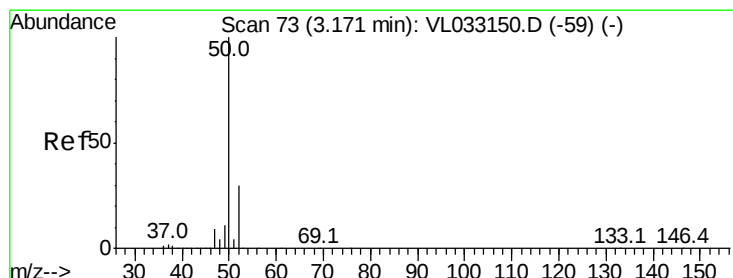
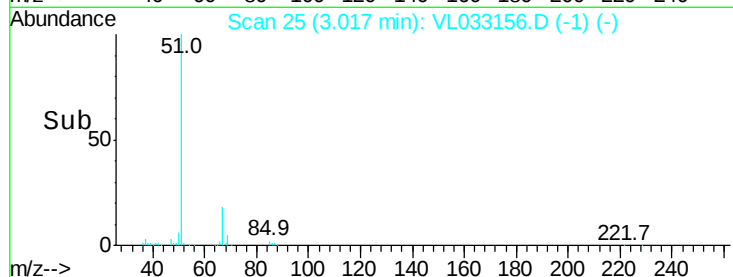
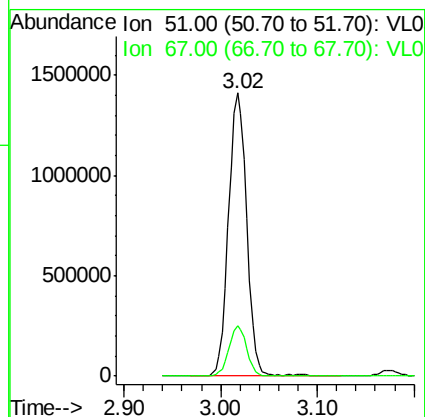
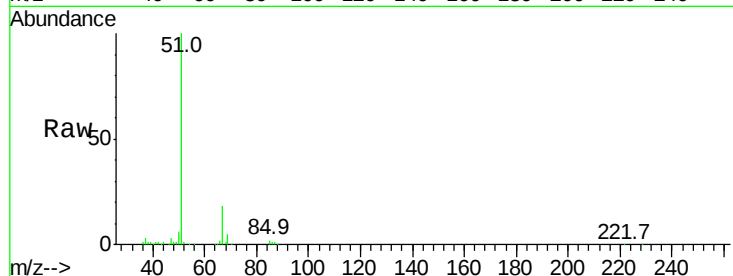




#3
Chlorodifluoromethane
Concen: 8.651 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

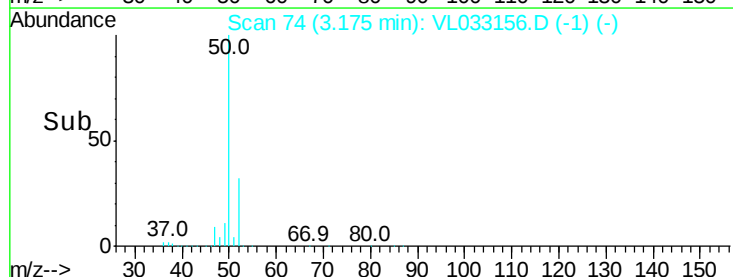
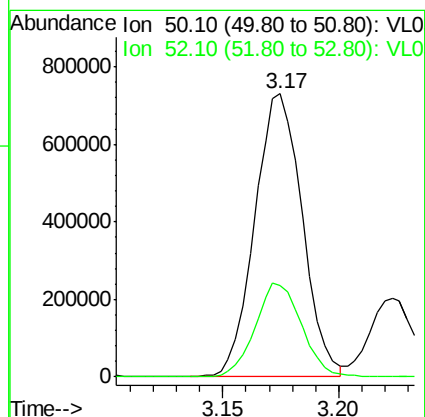
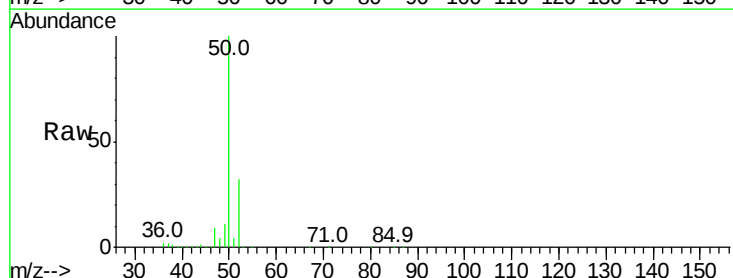
Instrument :
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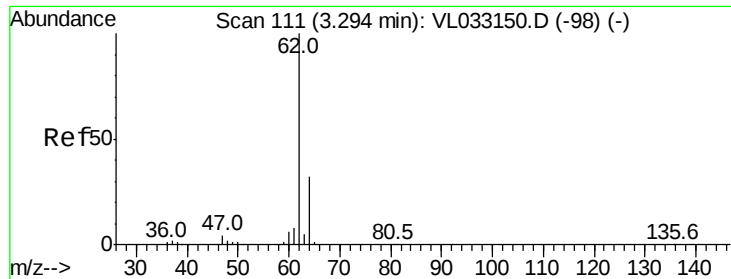
Tgt Ion: 51 Resp: 1841669
Ion Ratio Lower Upper
51 100
67 17.3 13.4 20.2



#4
Chloromethane
Concen: 8.483 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 50 Resp: 1039611
Ion Ratio Lower Upper
50 100
52 32.3 25.7 38.5





#5

Vinyl Chloride

Concen: 7.261 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

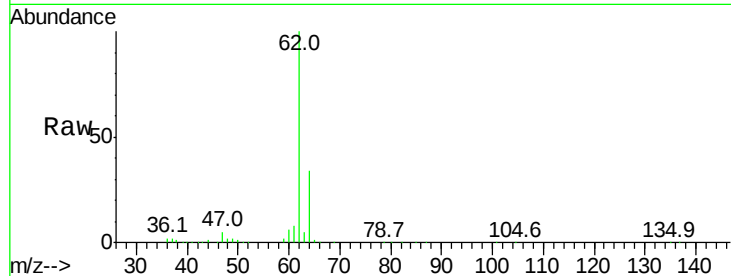
VSTDIC015

Tgt Ion: 62 Resp: 973485

Ion Ratio Lower Upper

62 100

64 34.4 26.3 39.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

600000

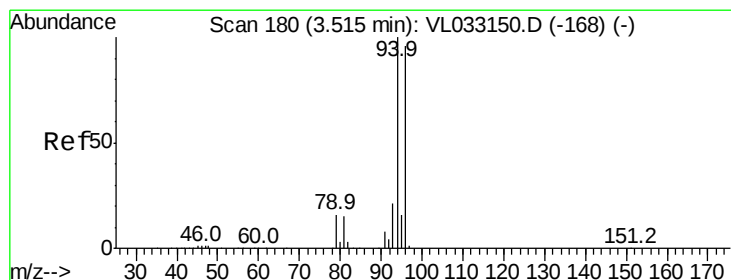
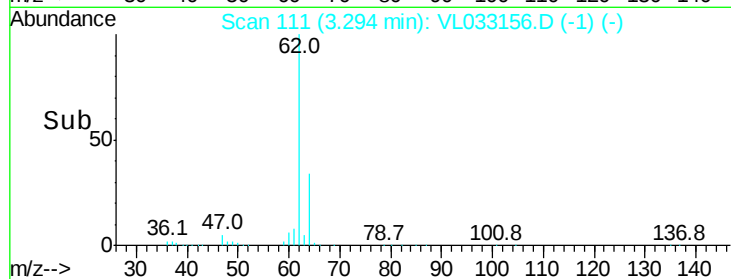
400000

200000

0

Time-->

3.25 3.30 3.35



#6

Bromomethane

Concen: 9.471 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.01 min

Lab File: VL033156.D

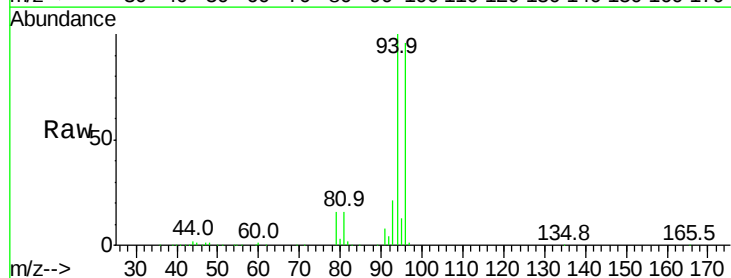
Acq: 4 Feb 2019 13:51

Tgt Ion: 94 Resp: 559530

Ion Ratio Lower Upper

94 100

96 95.6 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

400000

300000

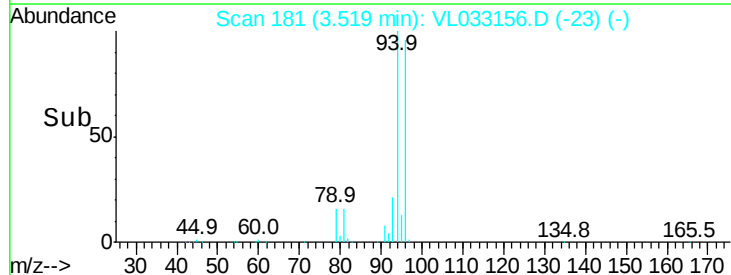
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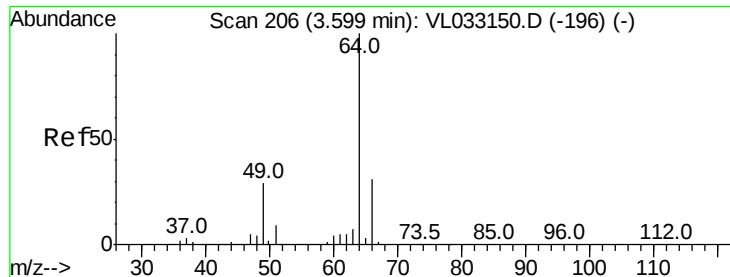
100000

0

Time-->

3.45 3.50 3.55





#7

Chloroethane

Concen: 9.524 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

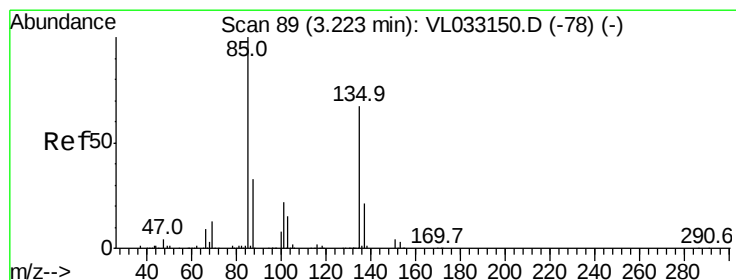
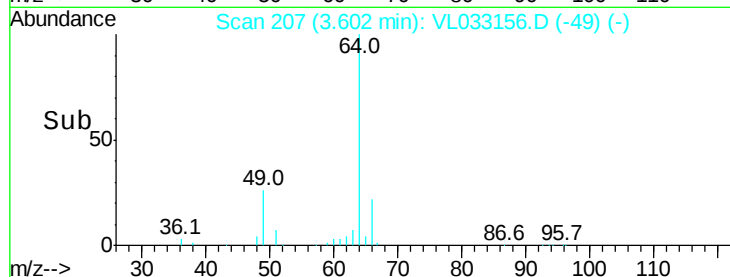
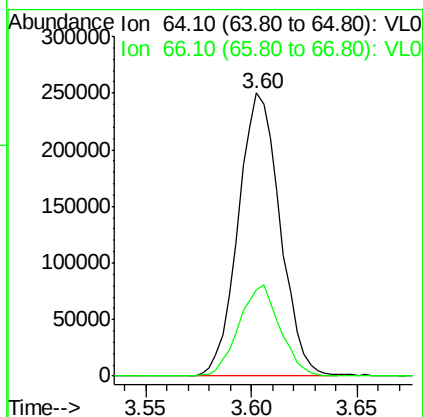
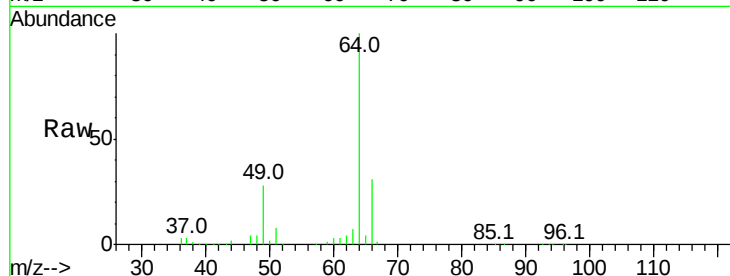
VSTDIC015

Tgt Ion: 64 Resp: 344575

Ion Ratio Lower Upper

64 100

66 31.3 22.3 33.5



#8

Dichlorotetrafluoroethane

Concen: 8.770 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.01 min

Lab File: VL033156.D

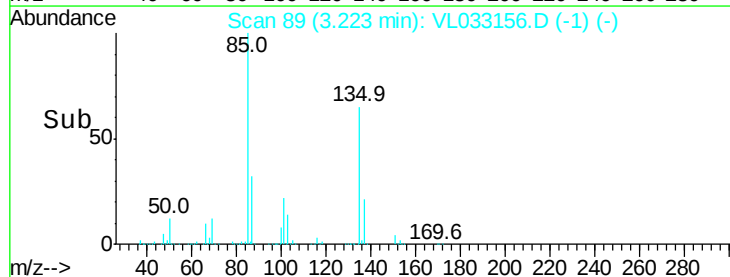
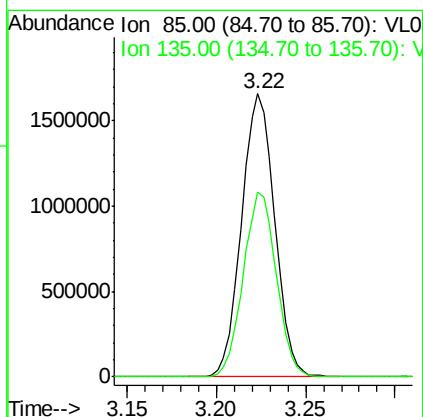
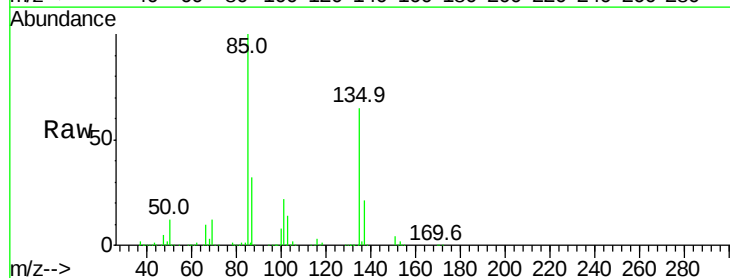
Acq: 4 Feb 2019 13:51

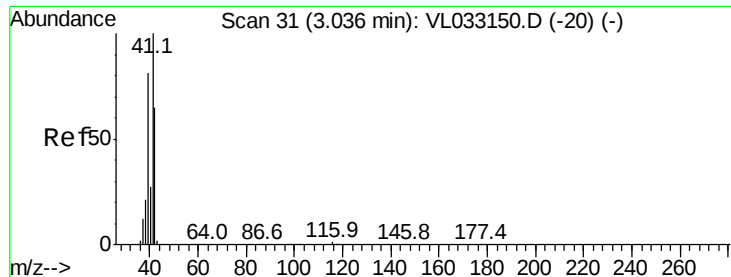
Tgt Ion: 85 Resp: 2153107

Ion Ratio Lower Upper

85 100

135 65.6 54.0 81.0





#9

Propene

Concen: 8.277 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

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ClientSampleId :

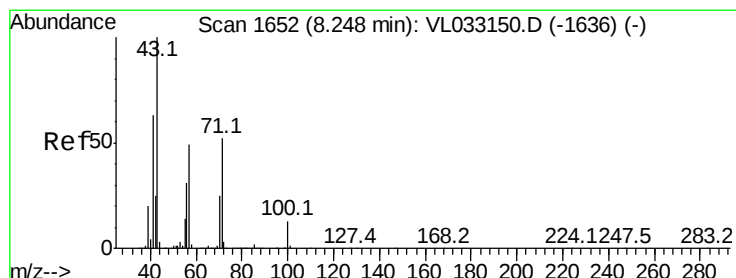
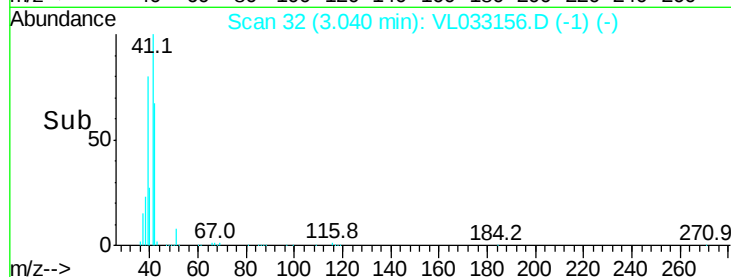
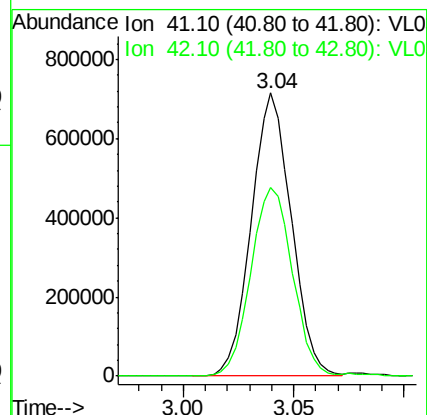
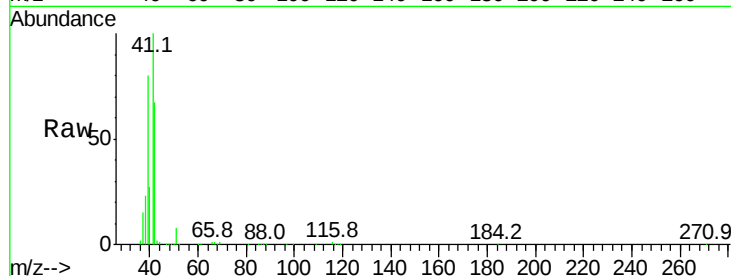
VSTDIC015

Tgt Ion: 41 Resp: 900497

Ion Ratio Lower Upper

41 100

42 70.1 55.1 82.7



#10

Heptane

Concen: 13.129 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.01 min

Lab File: VL033156.D

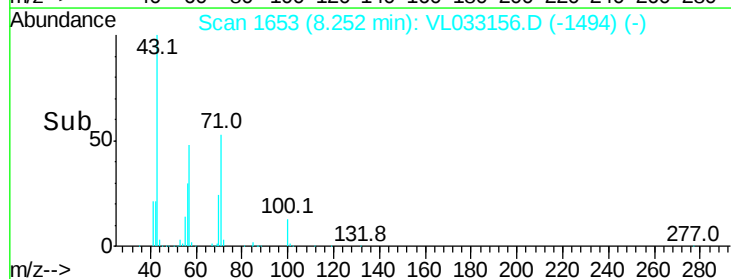
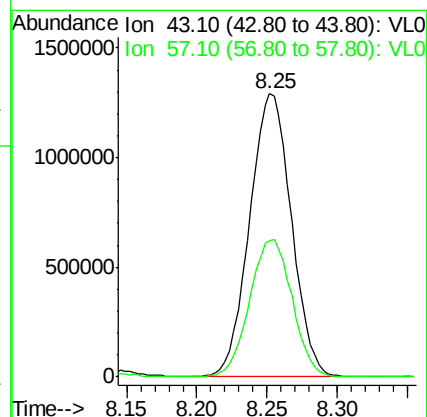
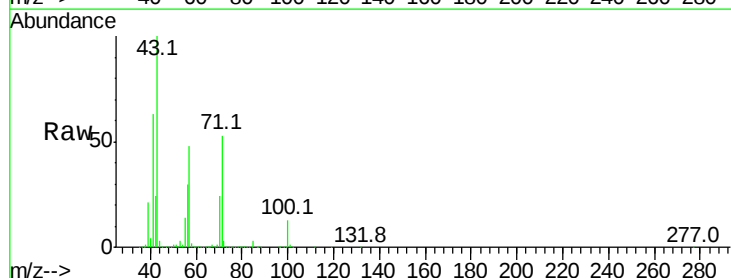
Acq: 4 Feb 2019 13:51

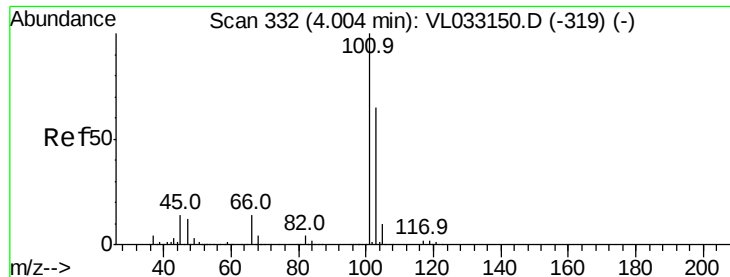
Tgt Ion: 43 Resp: 2661306

Ion Ratio Lower Upper

43 100

57 49.5 39.3 58.9





#11

Trichlorofluoromethane

Concen: 10.828 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.01 min

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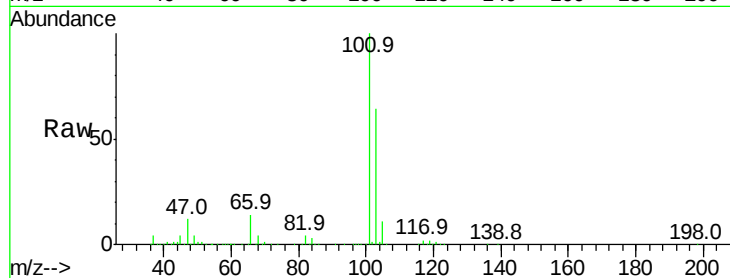
VSTDIC015

Tgt Ion:101 Resp: 2262182

Ion Ratio Lower Upper

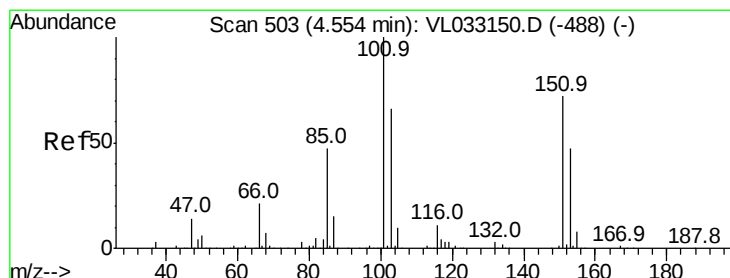
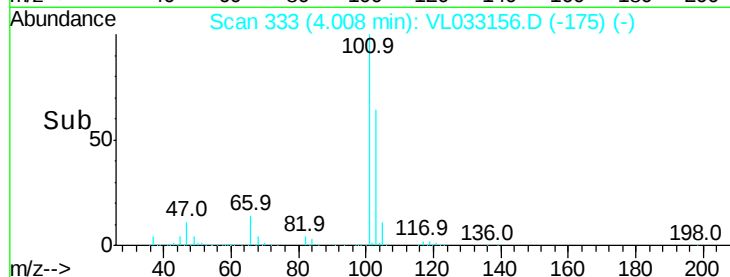
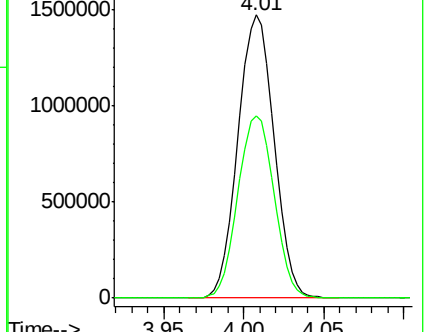
101 100

103 64.4 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: 11.130 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.01 min

Lab File: VL033156.D

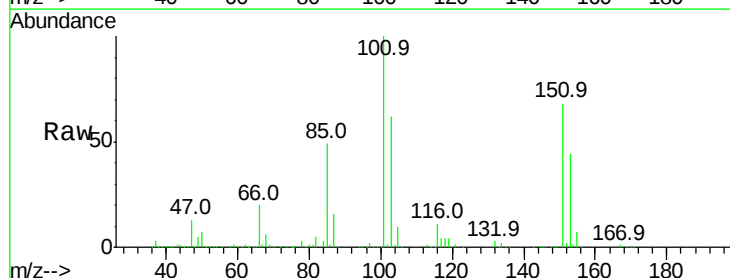
Acq: 4 Feb 2019 13:51

Tgt Ion:101 Resp: 1479801

Ion Ratio Lower Upper

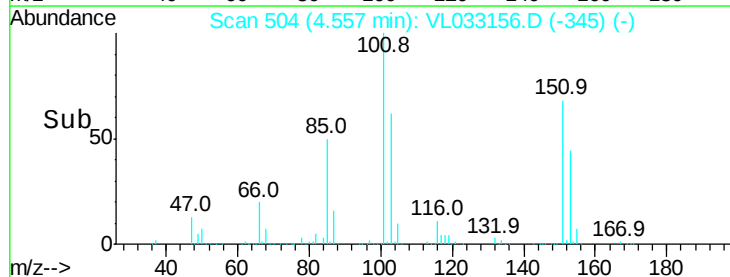
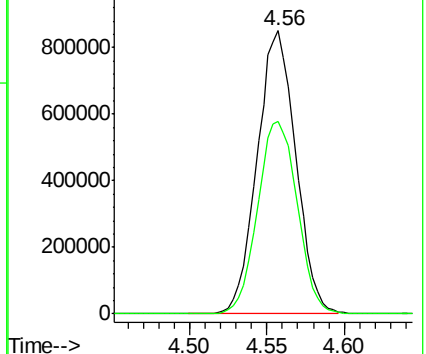
101 100

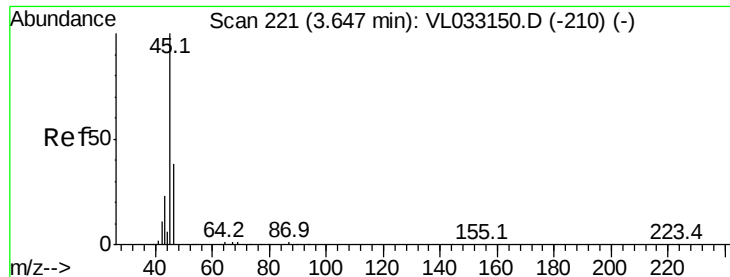
151 69.9 57.9 86.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.069 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

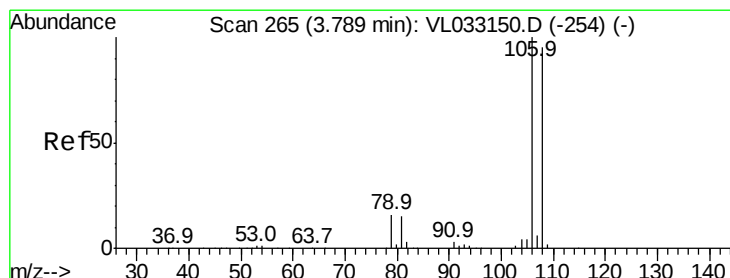
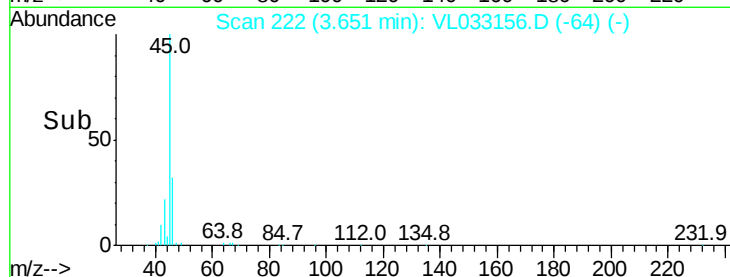
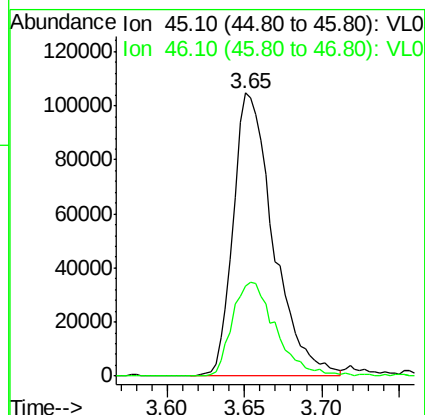
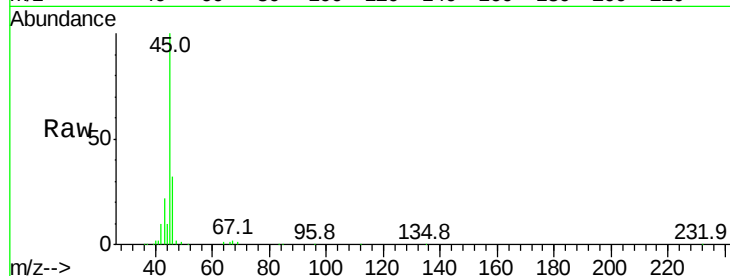
VSTDIC015

Tgt Ion: 45 Resp: 186789

Ion Ratio Lower Upper

45 100

46 36.1 14.0 56.2



#14

Bromoethene

Concen: 10.219 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

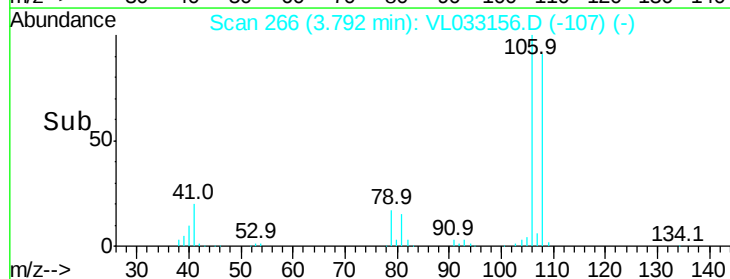
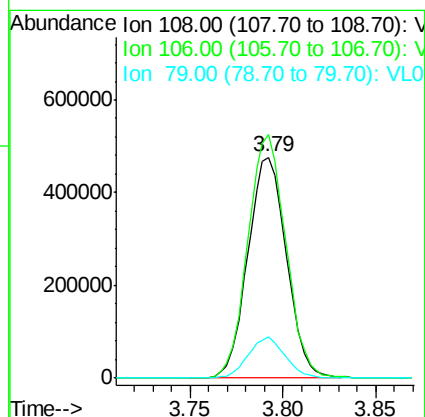
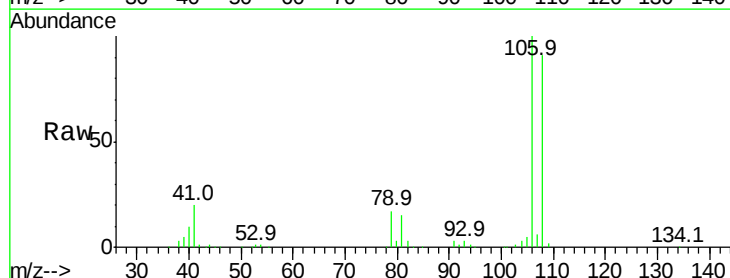
Tgt Ion: 108 Resp: 687283

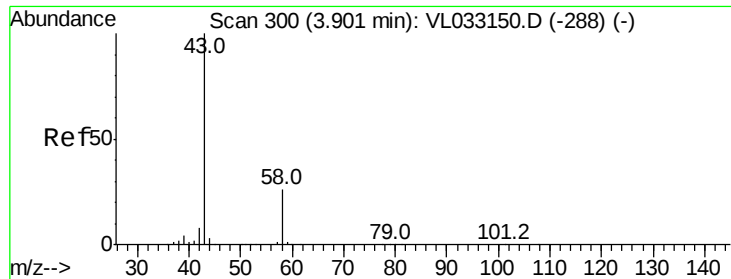
Ion Ratio Lower Upper

108 100

106 109.0 85.6 128.4

79 18.0 14.2 21.4





#15

Acetone

Concen: 9.621 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

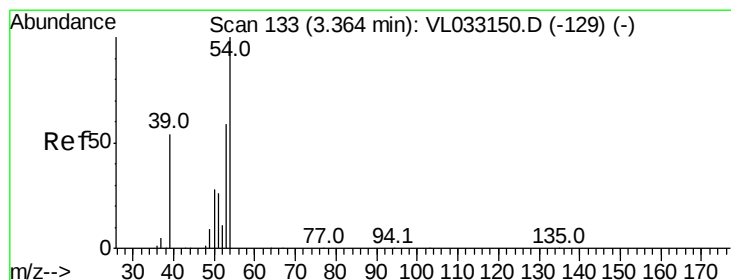
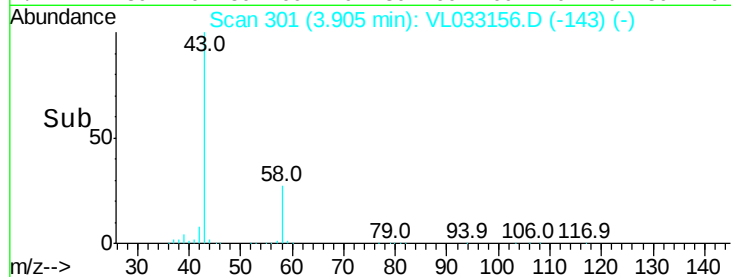
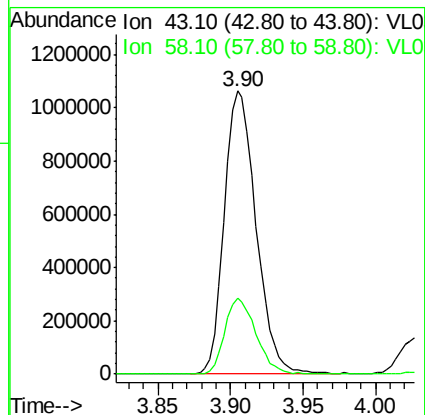
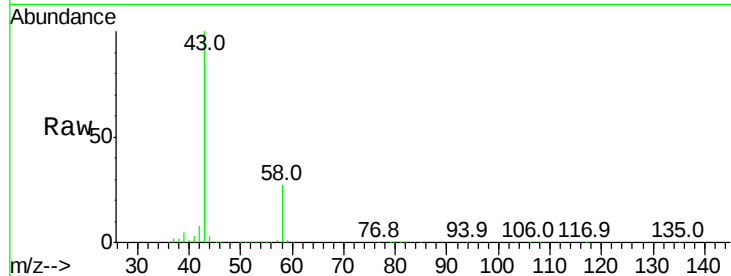
VSTDIC015

Tgt Ion: 43 Resp: 1614497

Ion Ratio Lower Upper

43 100

58 26.6 21.8 32.6



#16

1,3-Butadiene

Concen: 10.003 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.01 min

Lab File: VL033156.D

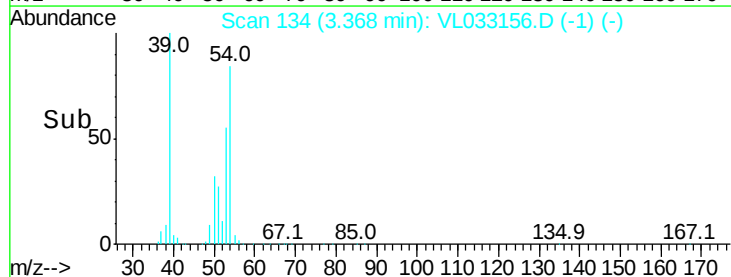
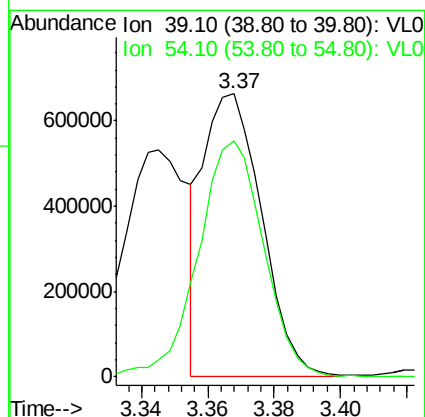
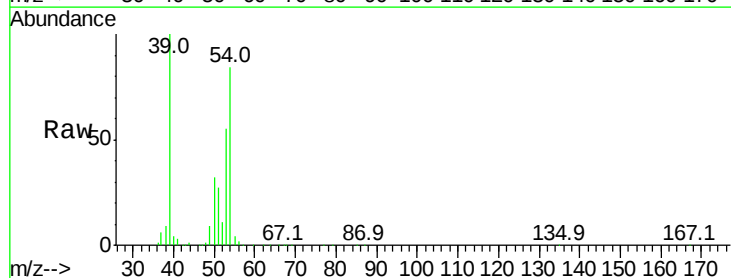
Acq: 4 Feb 2019 13:51

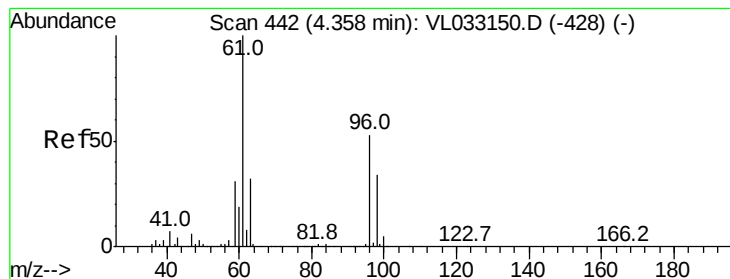
Tgt Ion: 39 Resp: 804761

Ion Ratio Lower Upper

39 100

54 95.4 75.0 112.6





#17

tert-Butyl alcohol

Concen: 8.431 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

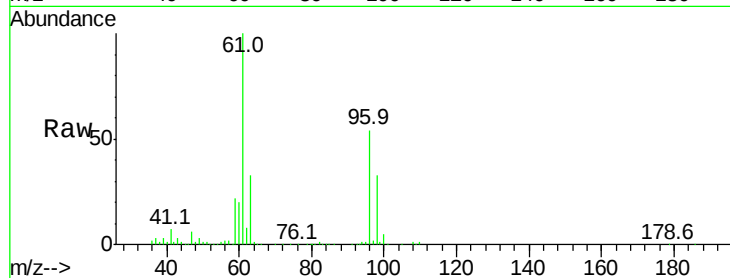
VSTDIC015

Tgt Ion: 59 Resp: 341098

Ion Ratio Lower Upper

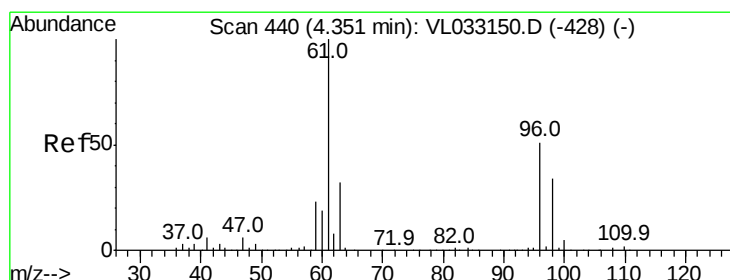
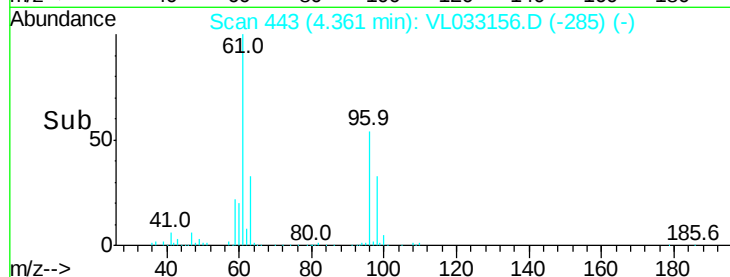
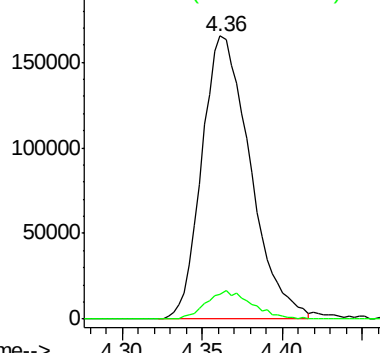
59 100

57 9.7 8.0 12.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 11.059 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

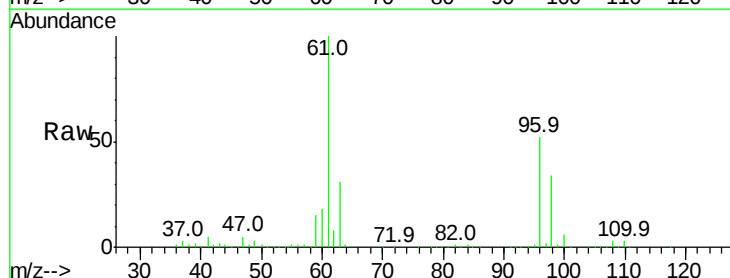
Tgt Ion: 96 Resp: 710330

Ion Ratio Lower Upper

96 100

61 193.0 158.5 237.7

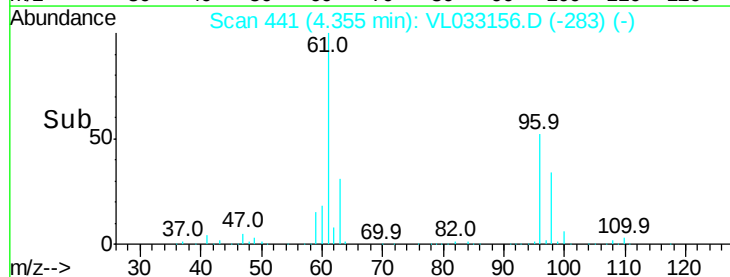
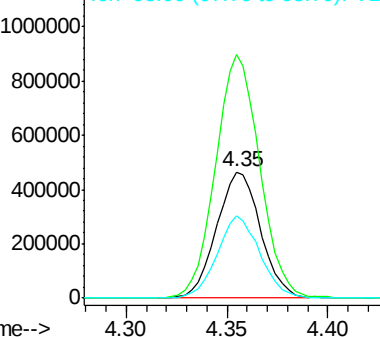
98 65.0 47.8 71.6

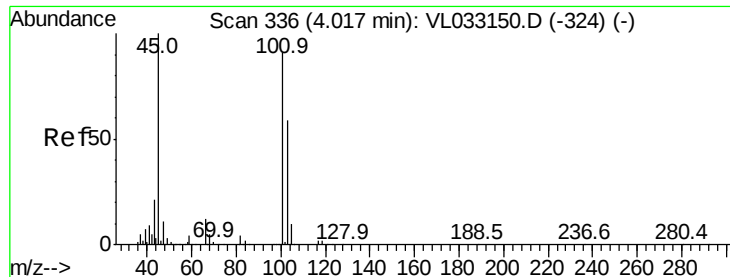


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.583 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

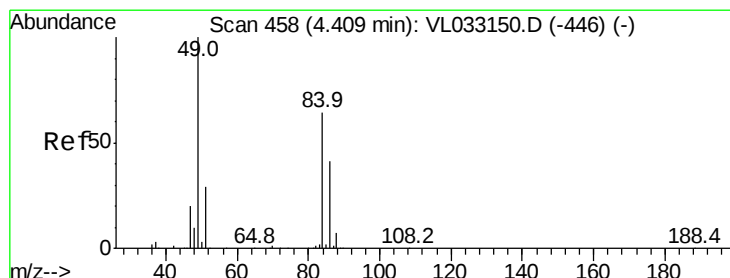
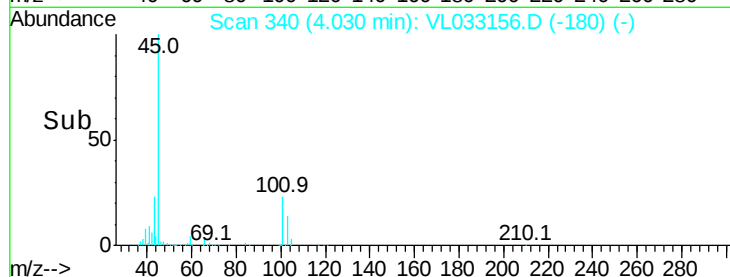
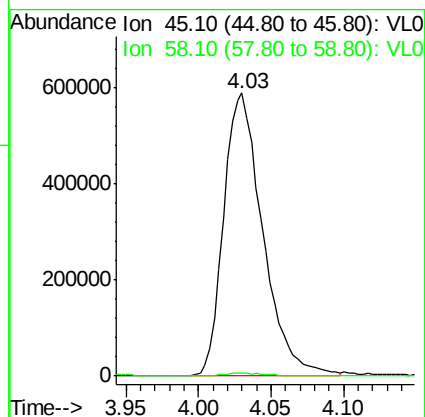
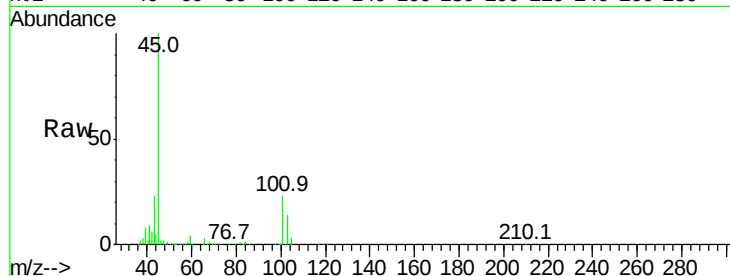
VSTDIC015

Tgt Ion: 45 Resp: 1101177

Ion Ratio Lower Upper

45 100

58 1.5 25.1 37.7#



#20

Methylene Chloride

Concen: 9.204 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 84 Resp: 597531

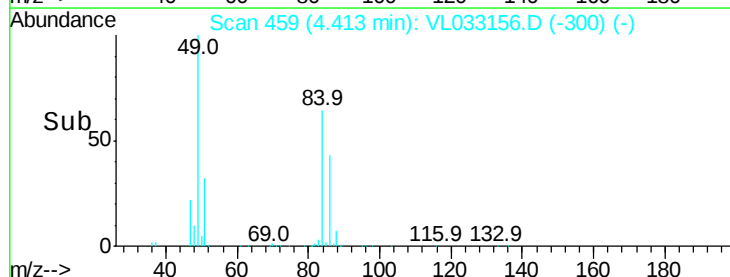
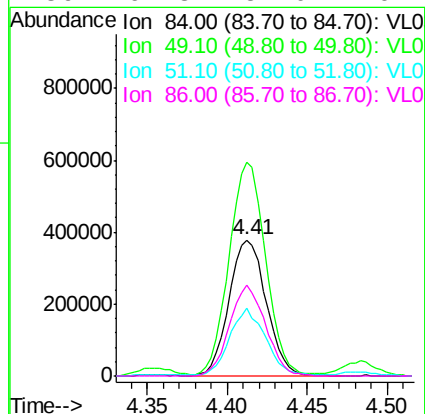
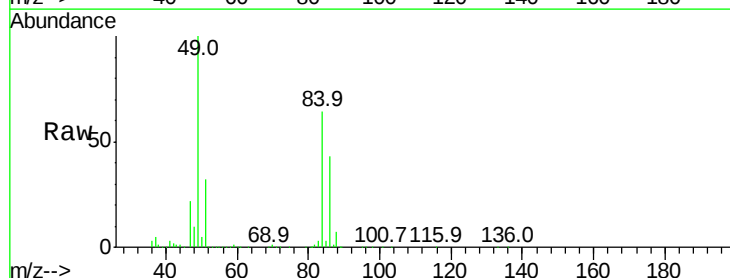
Ion Ratio Lower Upper

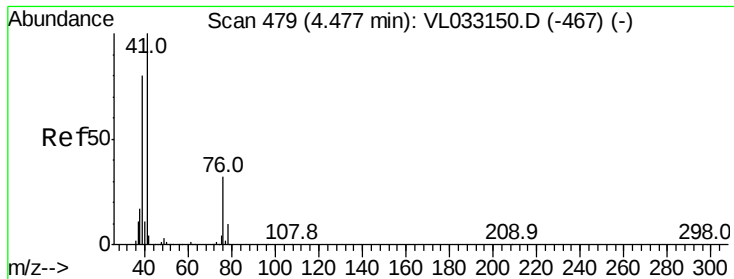
84 100

49 156.6 121.1 181.7

51 49.6 37.5 56.3

86 67.3 51.0 76.4





#21

Allyl Chloride

Concen: 11.045 ppbv

RT: 4.48 min Scan# 481

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

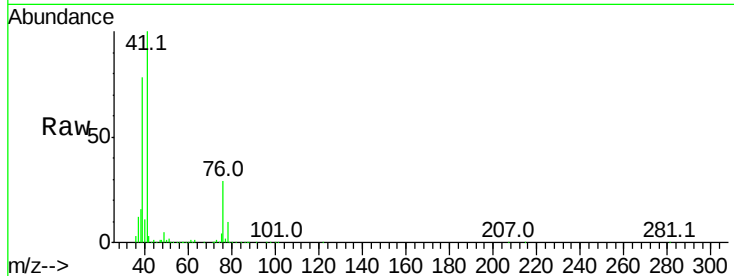
Tgt Ion: 41 Resp: 1190678

Ion Ratio Lower Upper

41 100

76 30.2 23.2 34.8

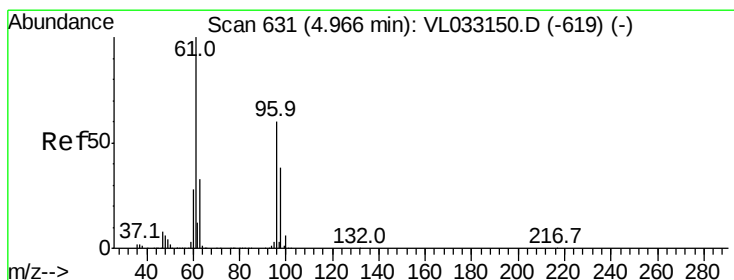
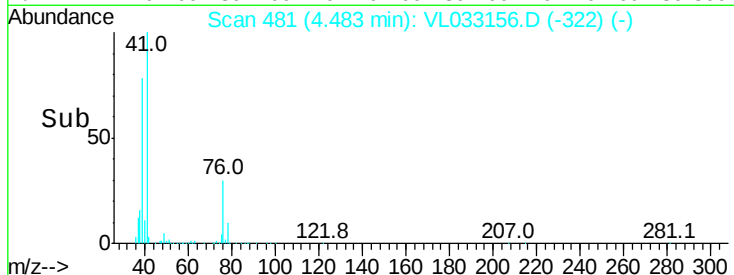
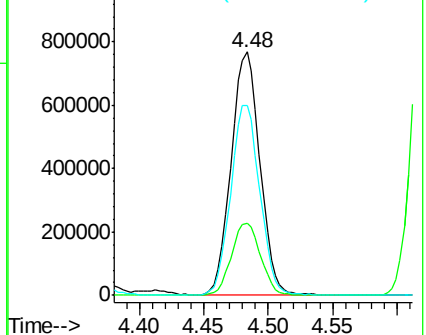
39 78.8 61.8 92.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 11.996 ppbv

RT: 4.97 min Scan# 632

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

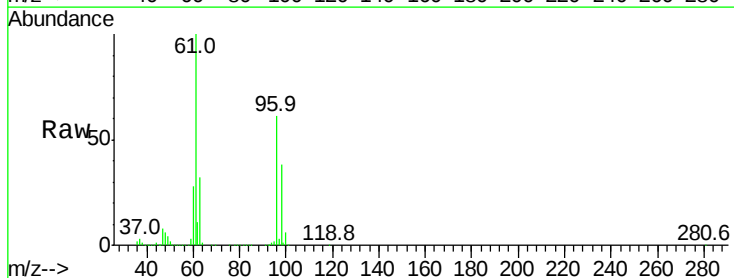
Tgt Ion: 96 Resp: 717978

Ion Ratio Lower Upper

96 100

61 162.9 134.5 201.7

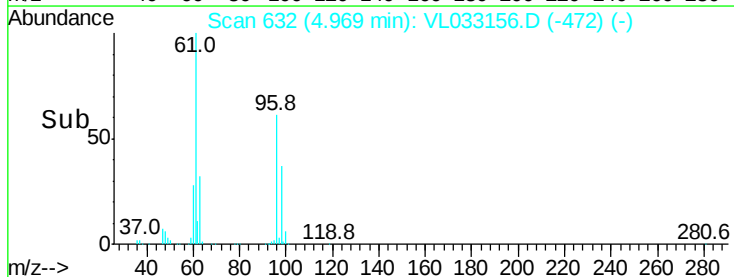
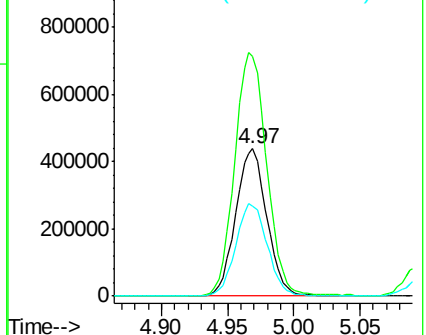
98 61.2 50.2 75.2

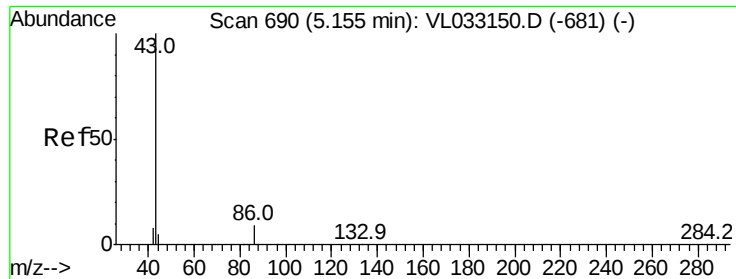


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.917 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3181181

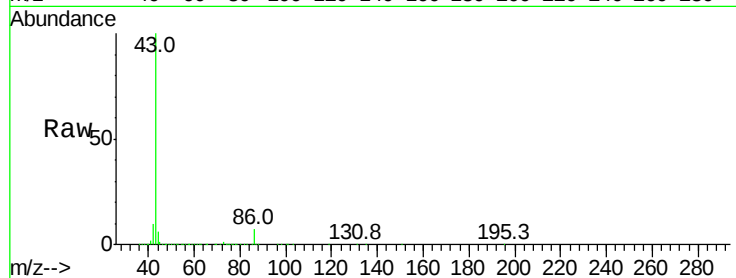
Ion Ratio Lower Upper

43 100

86 7.4 6.2 9.4

42 9.7 7.7 11.5

44 5.3 3.8 5.8

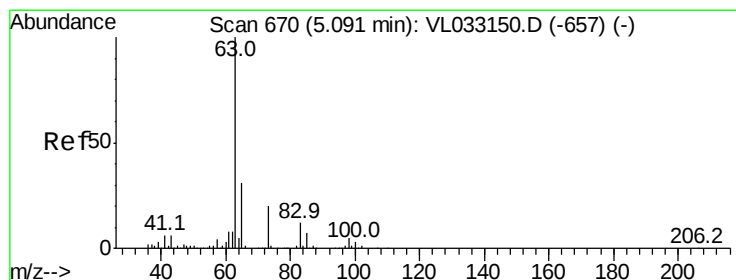
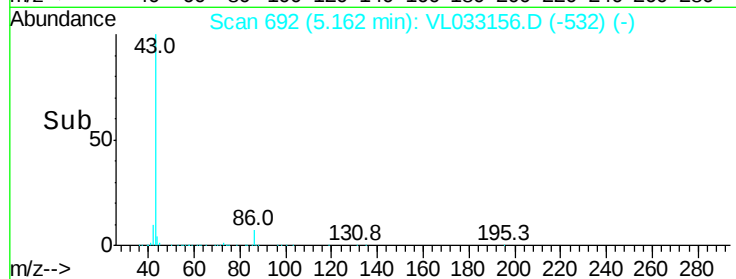
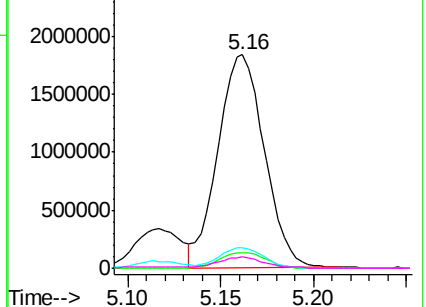


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.764 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

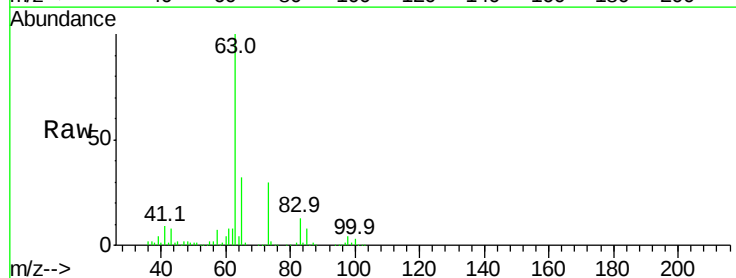
Tgt Ion: 63 Resp: 2092629

Ion Ratio Lower Upper

63 100

98 4.3 2.3 6.9

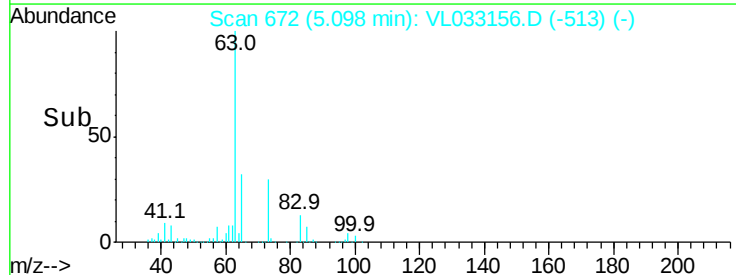
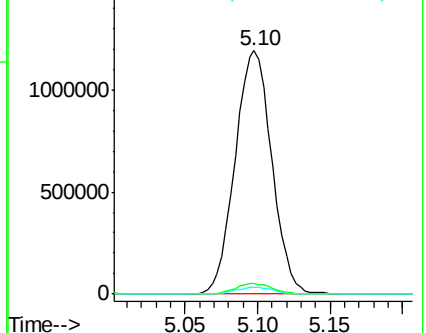
100 2.6 1.3 3.9

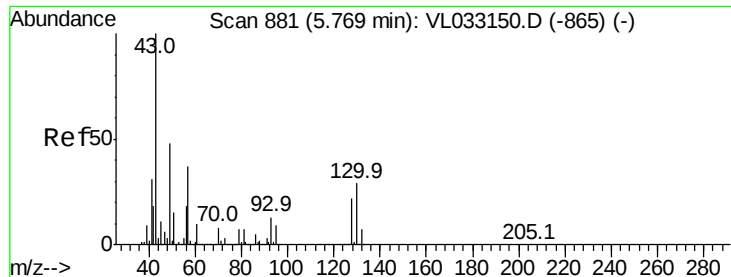


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 11.673 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 4195611

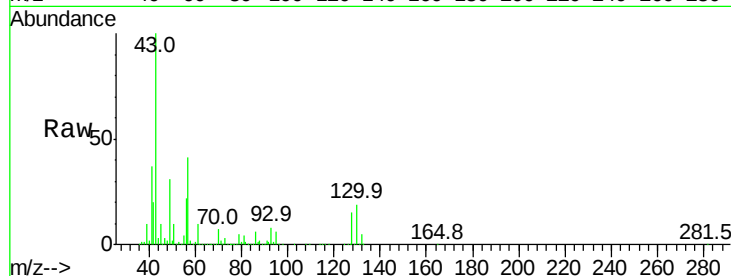
Ion Ratio Lower Upper

43 100

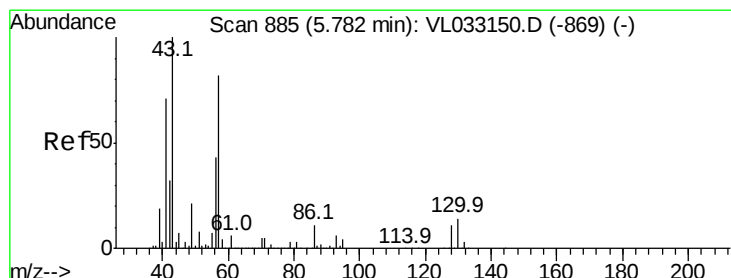
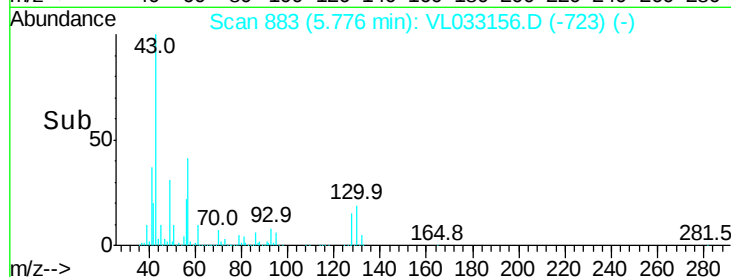
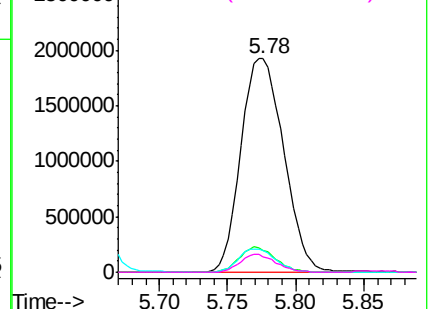
45 10.0 8.0 12.0

61 9.5 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: 10.855 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 57 Resp: 1910183

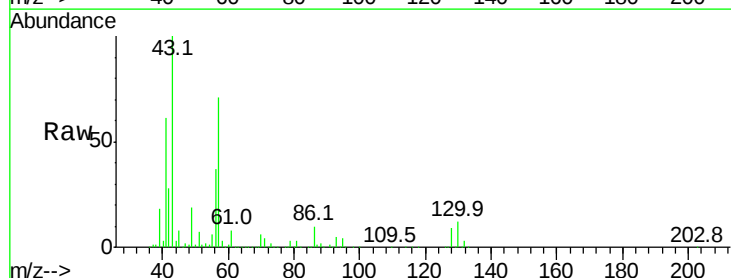
Ion Ratio Lower Upper

57 100

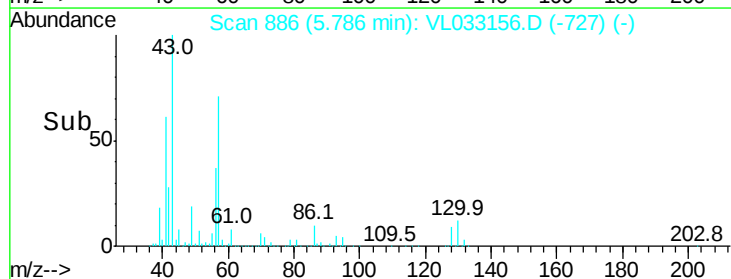
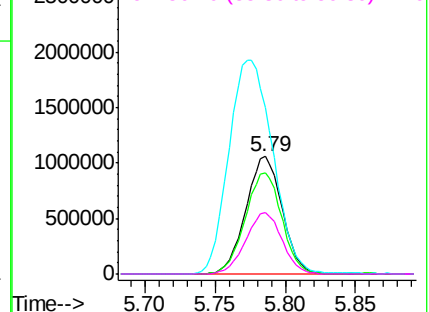
41 86.8 69.5 104.3

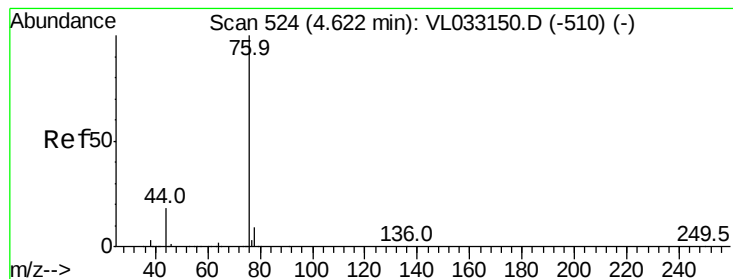
43 220.7 175.5 263.3

56 52.5 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: 12.585 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

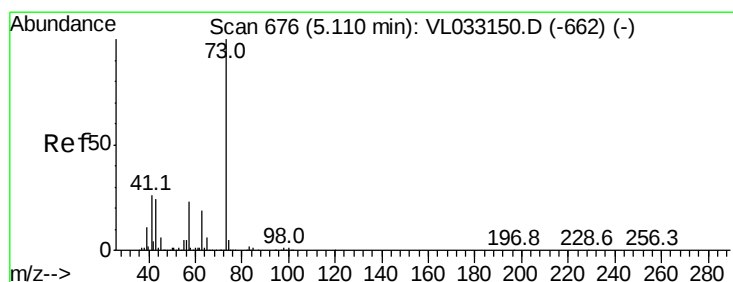
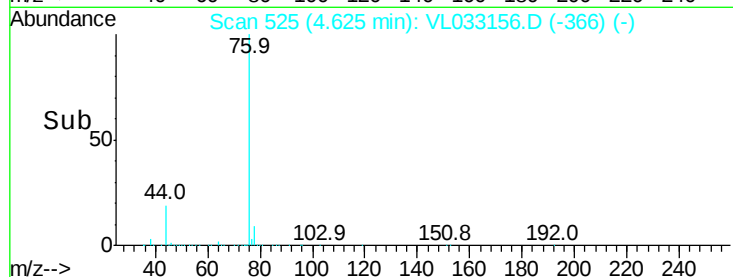
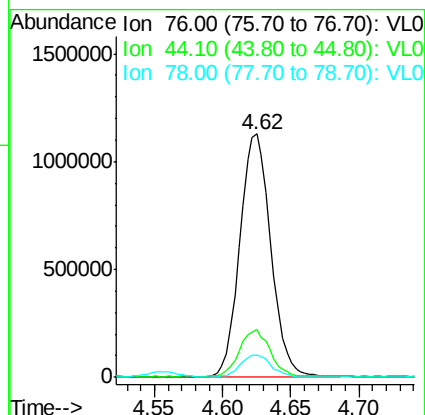
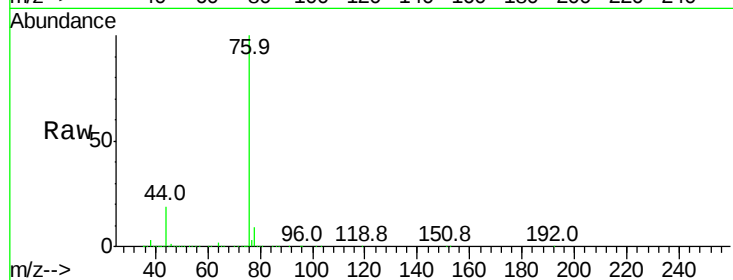
Tgt Ion: 76 Resp: 1788253

Ion Ratio Lower Upper

76 100

44 19.4 17.1 25.7

78 9.3 7.2 10.8



#28

Methyl tert-Butyl Ether

Concen: 10.280 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.01 min

Lab File: VL033156.D

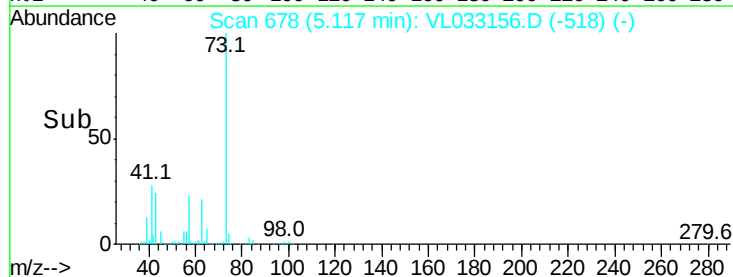
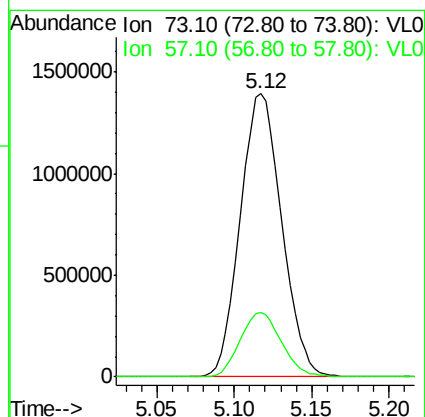
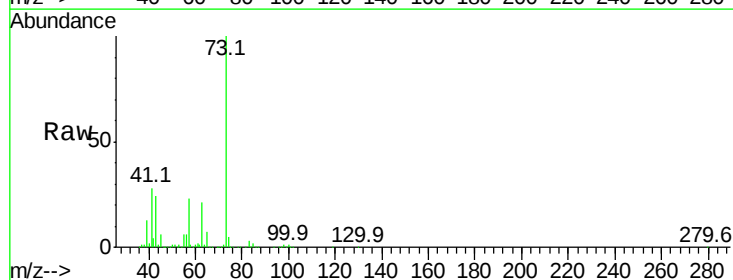
Acq: 4 Feb 2019 13:51

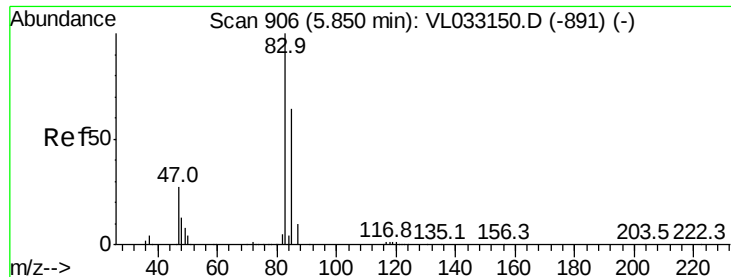
Tgt Ion: 73 Resp: 2600209

Ion Ratio Lower Upper

73 100

57 22.7 18.3 27.5

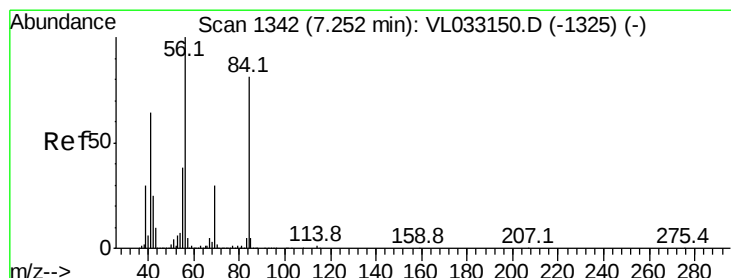
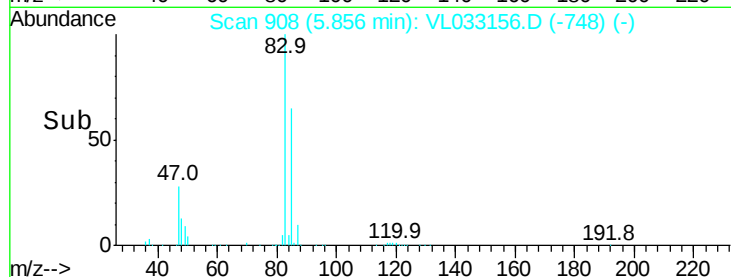
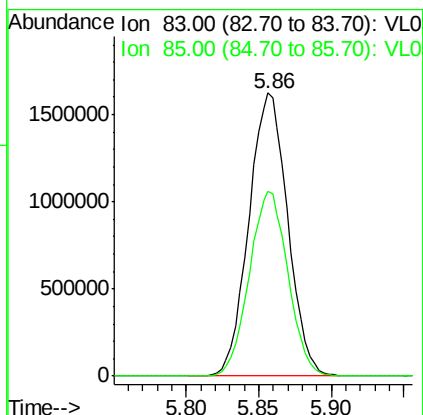
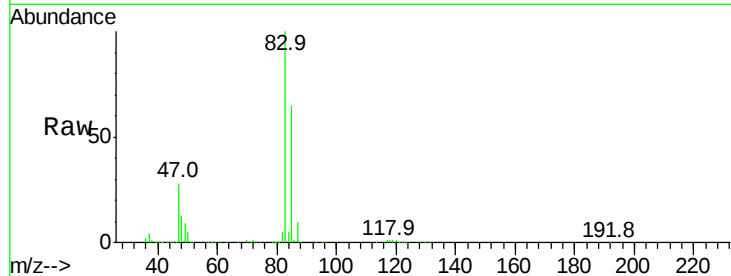




#29
Chloroform
Concen: 12.731 ppbv
RT: 5.86 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

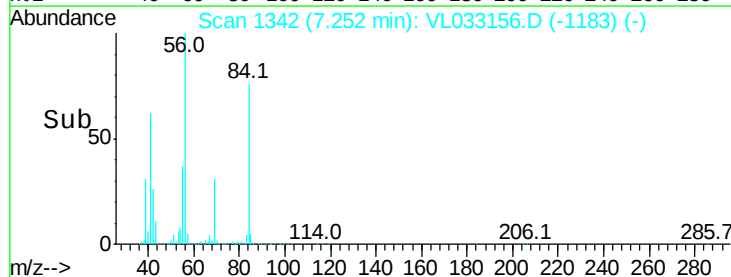
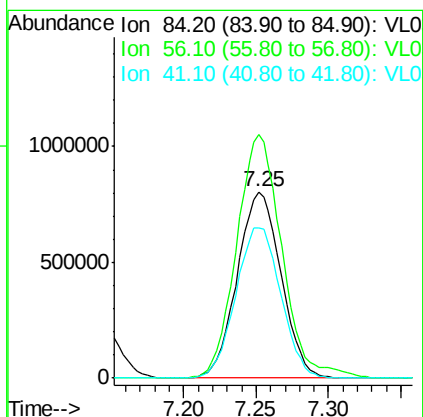
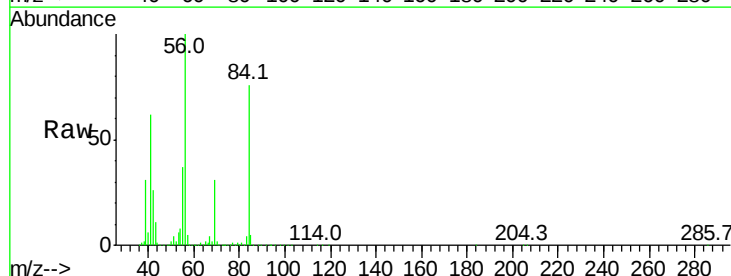
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

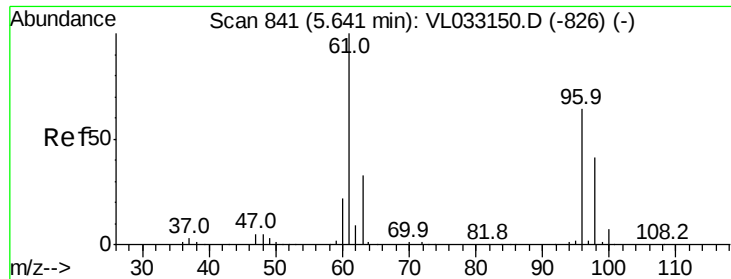
Tgt Ion: 83 Resp: 3026091
Ion Ratio Lower Upper
83 100
85 65.4 51.6 77.4



#30
Cyclohexane
Concen: 12.354 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 84 Resp: 1685461
Ion Ratio Lower Upper
84 100
56 135.7 109.0 163.4
41 83.4 65.3 97.9



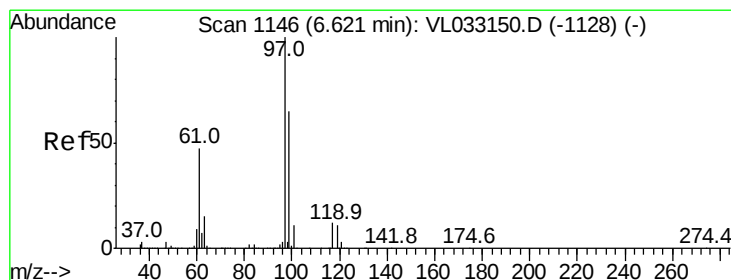
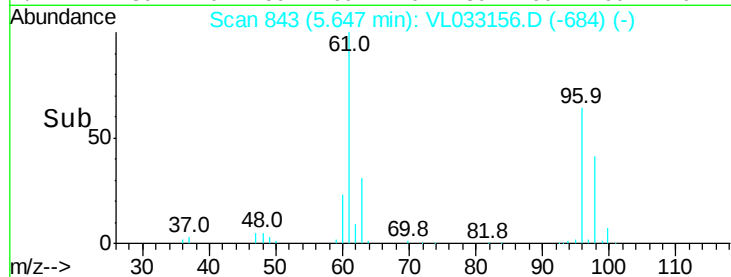
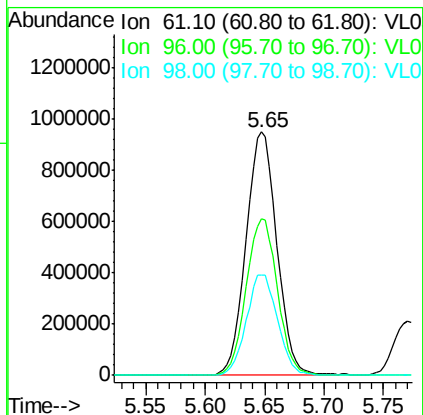
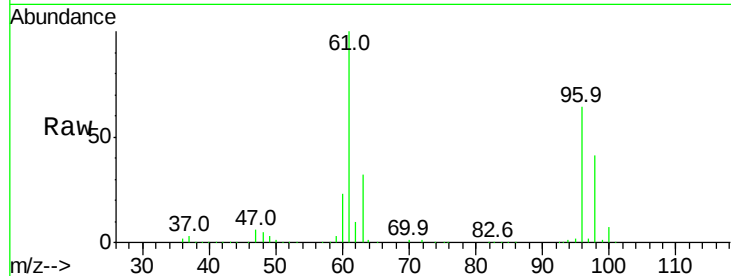


#31

cis-1,2-Dichloroethene
Concen: 10.600 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

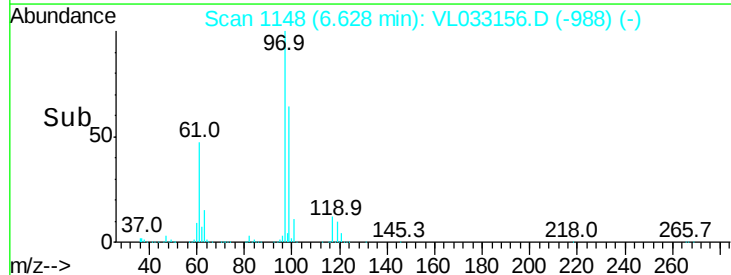
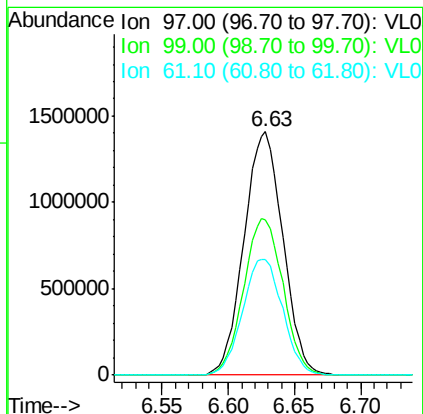
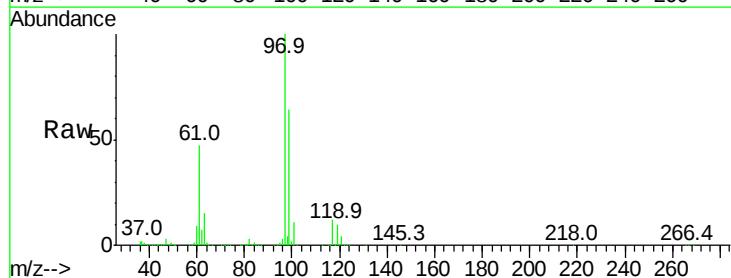
Tgt Ion: 61 Resp: 1703445
Ion Ratio Lower Upper
61 100
96 64.1 53.3 79.9
98 41.0 33.7 50.5

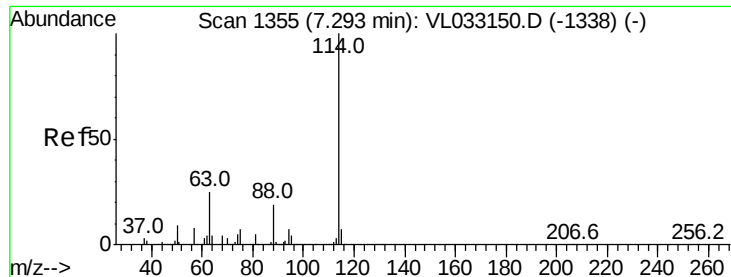


#32

1,1,1-Trichloroethane
Concen: 11.750 ppbv
RT: 6.63 min Scan# 1148
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 97 Resp: 2883952
Ion Ratio Lower Upper
97 100
99 65.1 65.1 97.7#
61 48.7 47.7 71.5

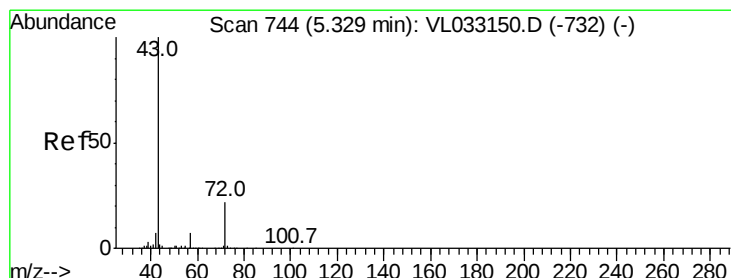
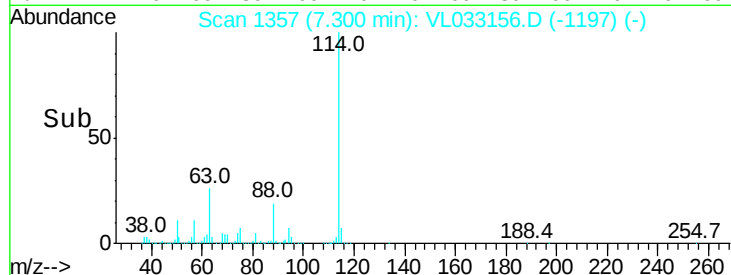
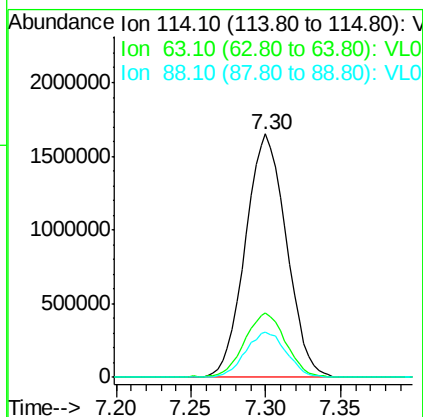
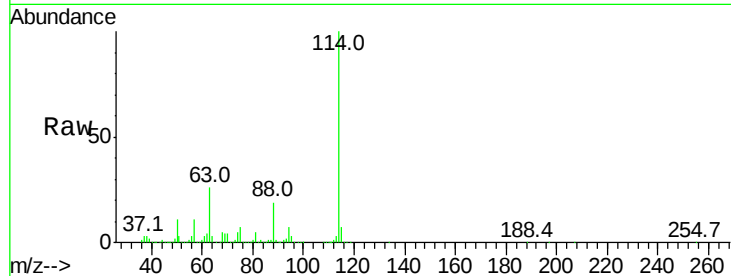




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

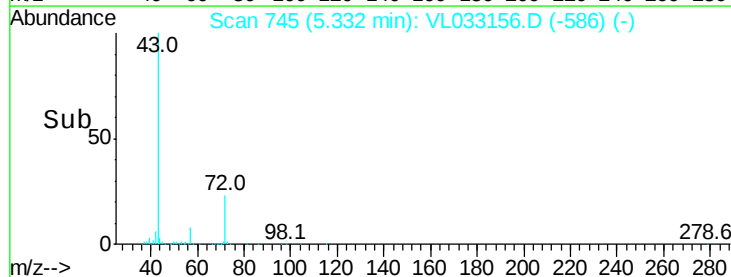
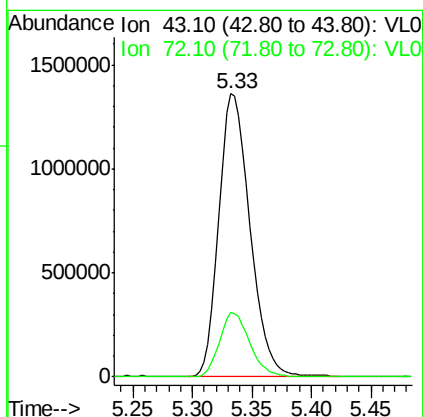
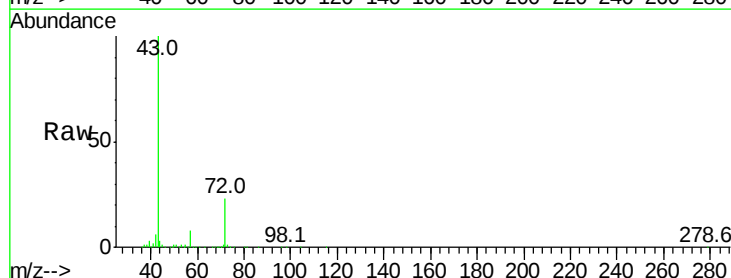
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

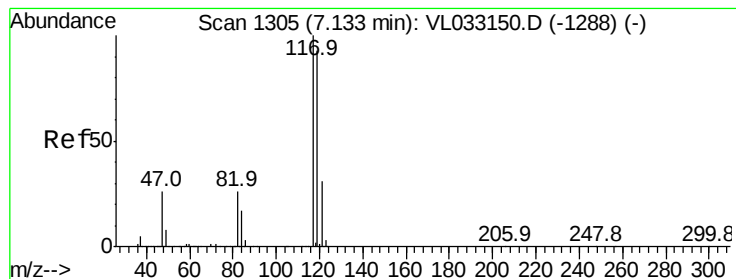
Tgt Ion:114 Resp: 3153795
 Ion Ratio Lower Upper
 114 100
 63 26.8 20.0 30.0
 88 18.5 14.4 21.6



#34
 2-Butanone
 Concen: 10.237 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion: 43 Resp: 2467956
 Ion Ratio Lower Upper
 43 100
 72 22.3 17.9 26.9





#35

Carbon Tetrachloride

Concen: 12.172 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

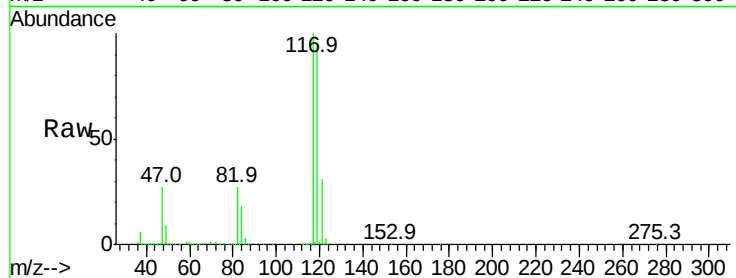
Tgt Ion:117 Resp: 2880279

Ion Ratio Lower Upper

117 100

119 95.5 76.6 114.8

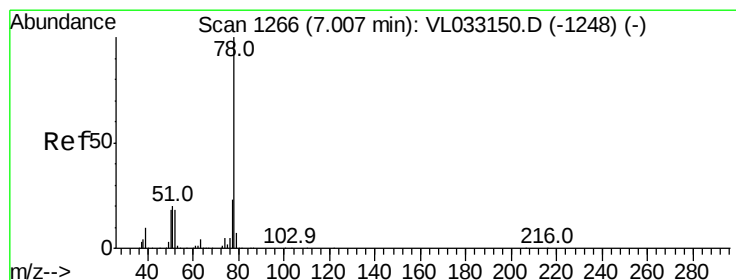
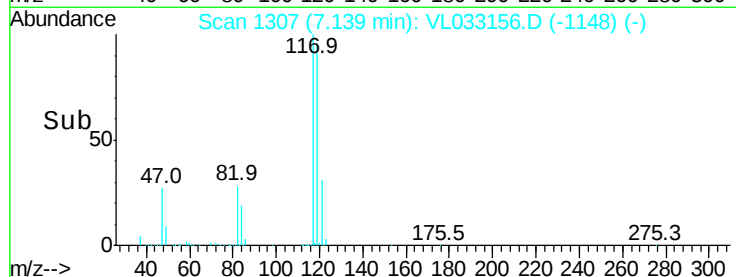
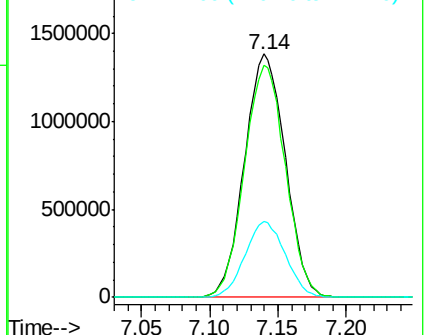
121 31.1 25.0 37.4



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: 11.577 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

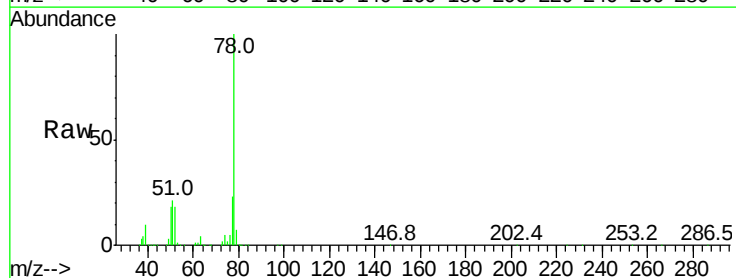
Tgt Ion: 78 Resp: 4094589

Ion Ratio Lower Upper

78 100

77 23.4 17.8 26.6

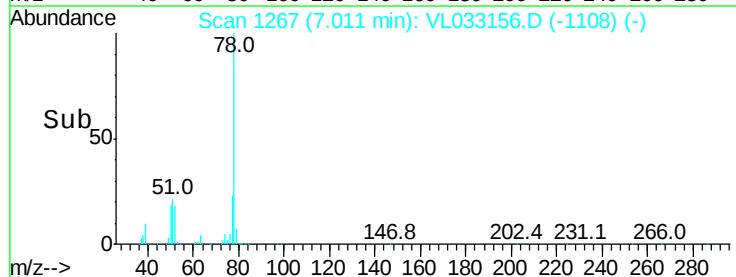
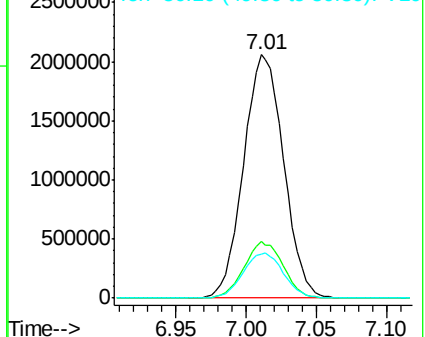
50 18.1 14.7 22.1

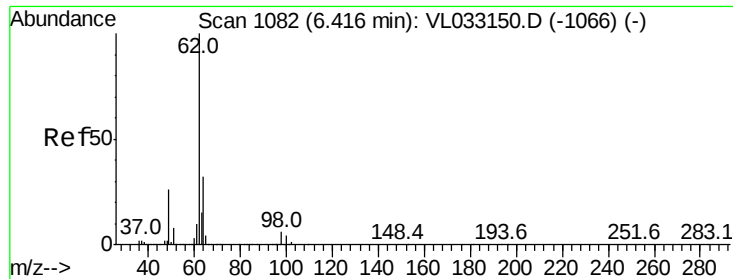


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 12.722 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

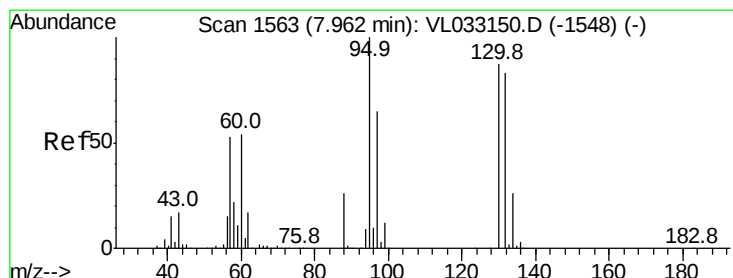
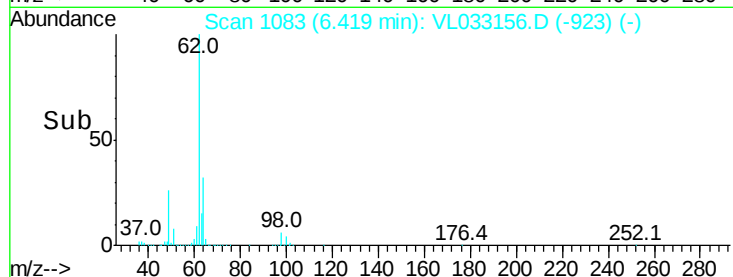
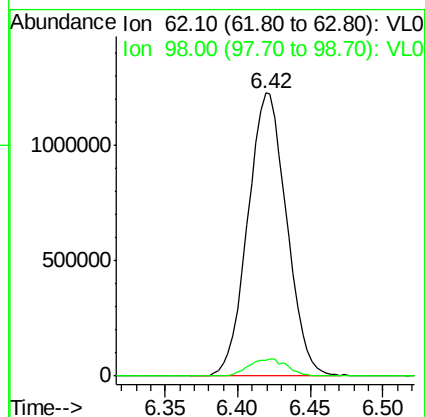
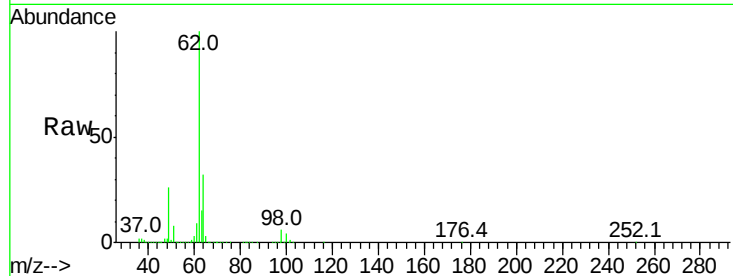
VSTDIC015

Tgt Ion: 62 Resp: 2290960

Ion Ratio Lower Upper

62 100

98 6.2 5.3 7.9



#38

Trichloroethene

Concen: 9.841 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 130 Resp: 1401501

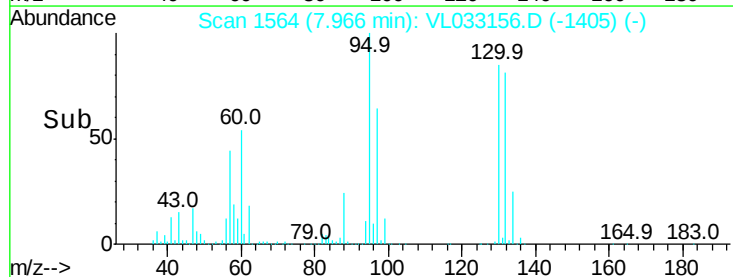
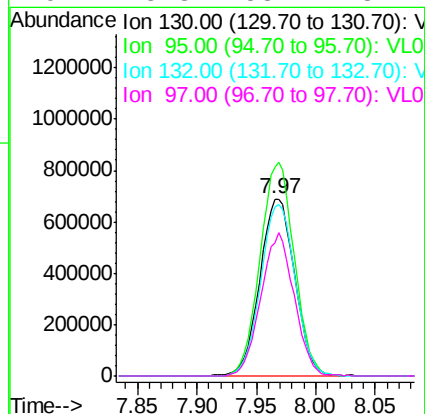
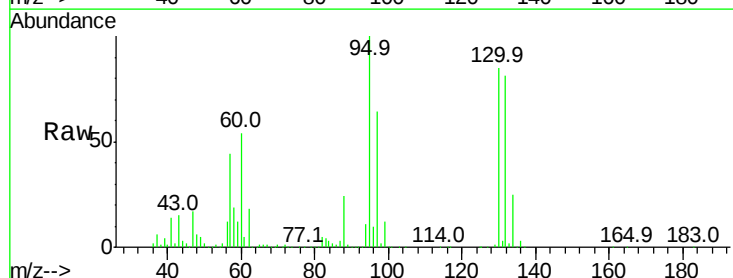
Ion Ratio Lower Upper

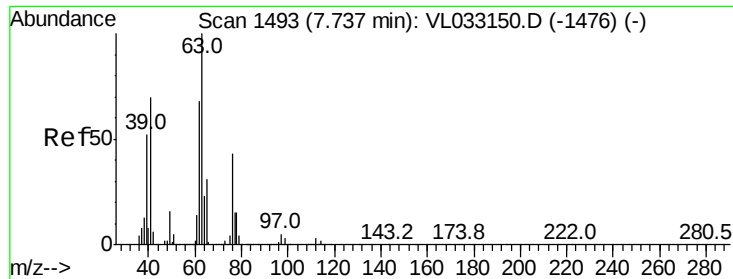
130 100

95 118.1 91.6 137.4

132 95.1 79.0 118.4

97 75.3 58.1 87.1





#39

1,2-Dichloropropane

Concen: 12.425 ppbv

RT: 7.74 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

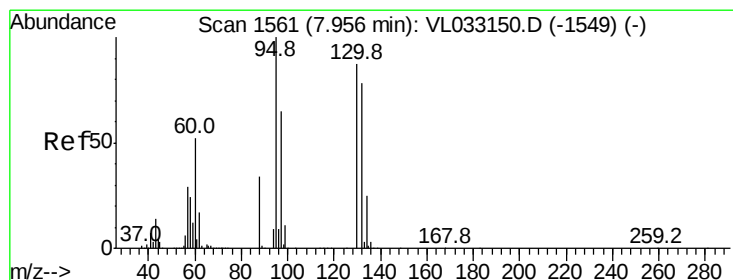
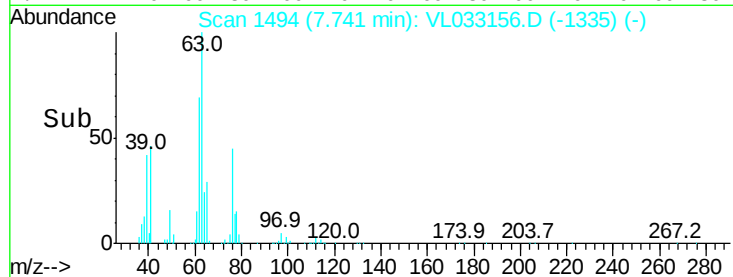
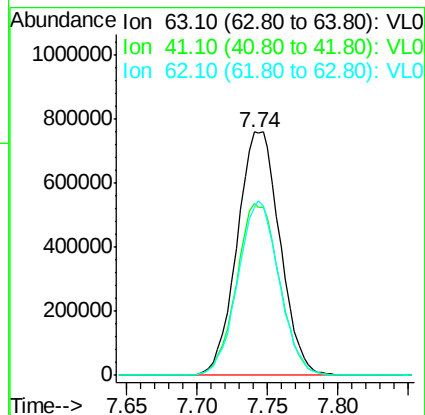
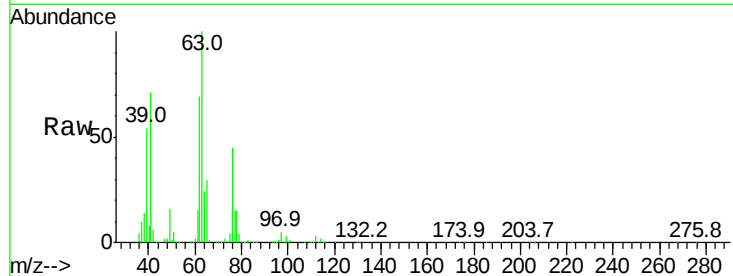
Tgt Ion: 63 Resp: 1610599

Ion Ratio Lower Upper

63 100

41 70.5 53.2 79.8

62 68.8 54.4 81.6



#40

1,4-Dioxane

Concen: 10.996 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 88 Resp: 501914

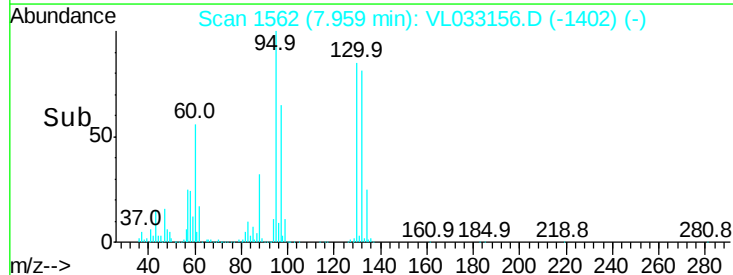
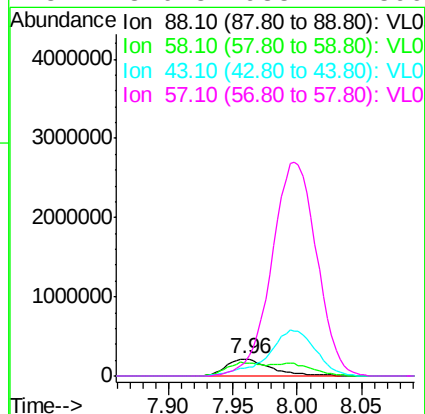
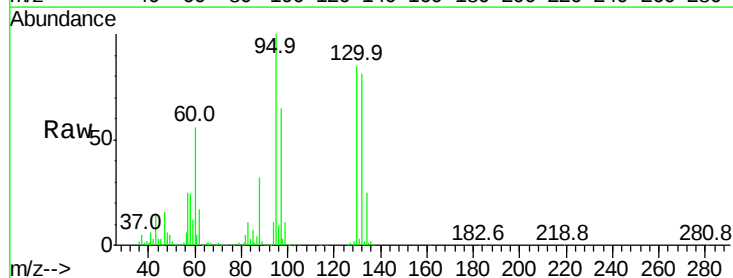
Ion Ratio Lower Upper

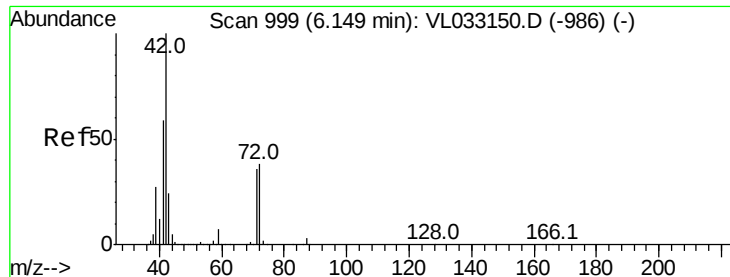
88 100

58 136.6 103.4 155.2

43 297.4 210.8 316.2

57 1310.5 933.2 1399.8





#41

Tetrahydrofuran

Concen: 12.111 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

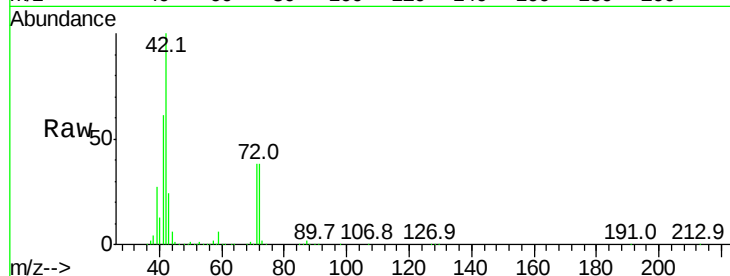
Tgt Ion: 42 Resp: 1754040

Ion Ratio Lower Upper

42 100

72 37.6 30.2 45.4

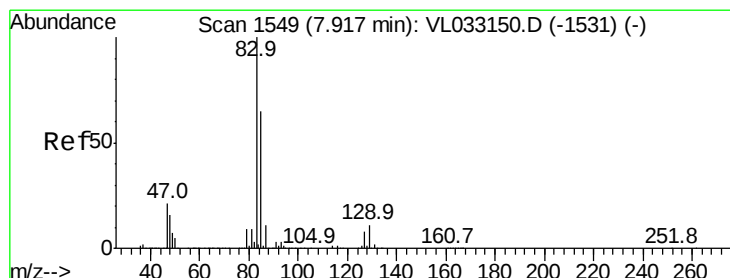
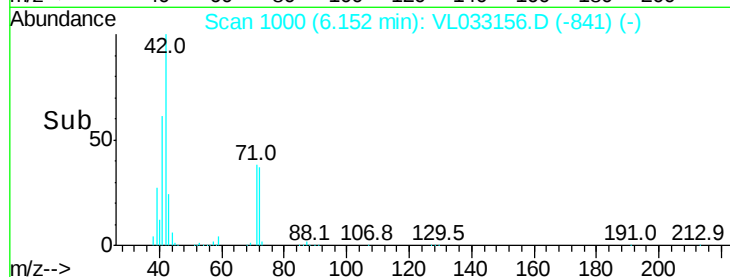
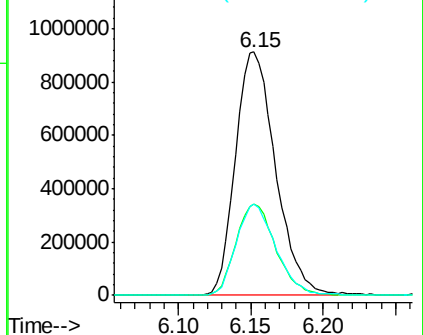
71 37.2 28.8 43.2



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: 12.657 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

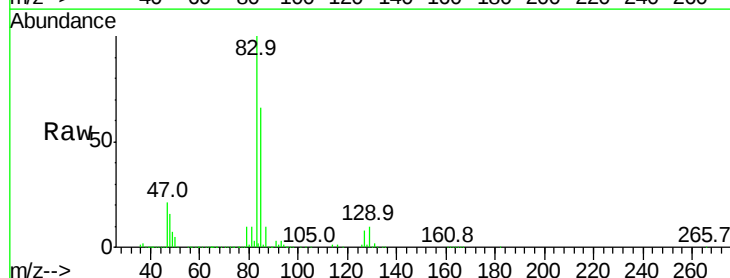
Tgt Ion: 83 Resp: 3248939

Ion Ratio Lower Upper

83 100

85 65.9 51.3 76.9

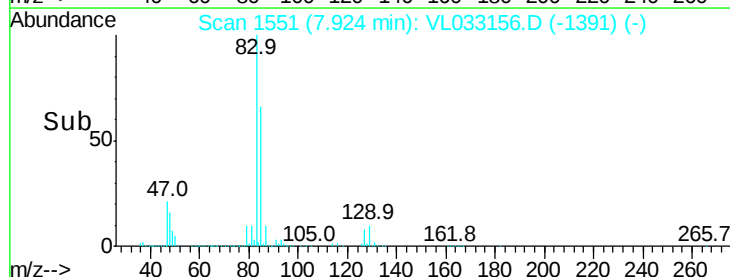
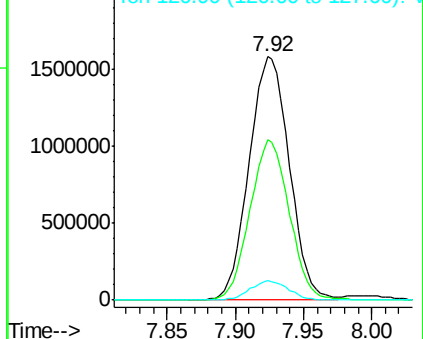
127 7.9 6.1 9.1

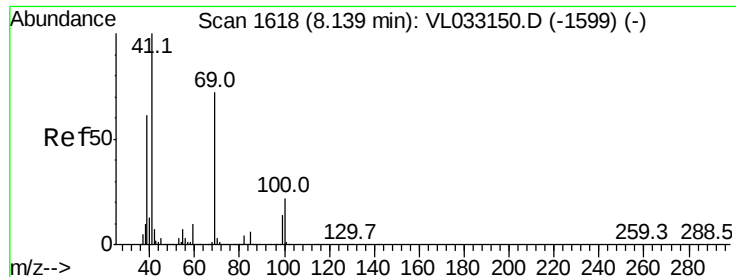


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 13.746 ppbv

RT: 8.14 min Scan# 1619

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

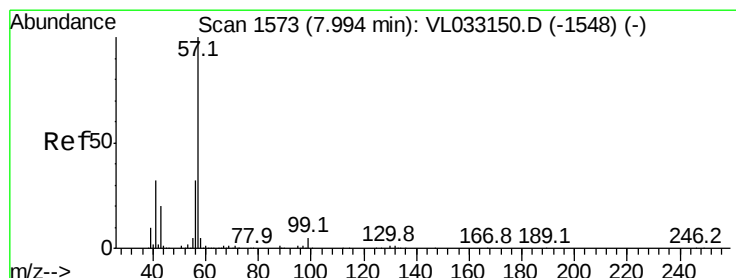
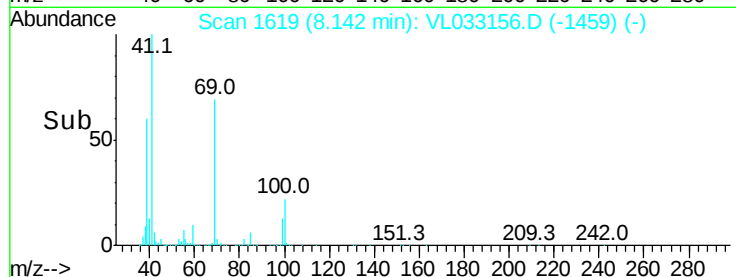
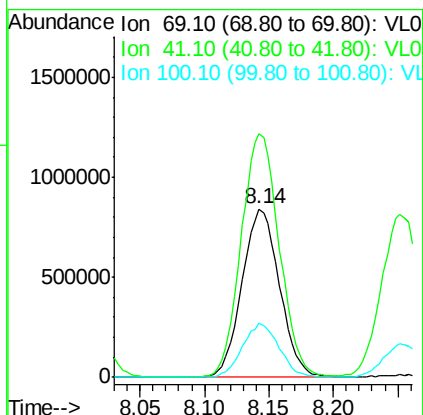
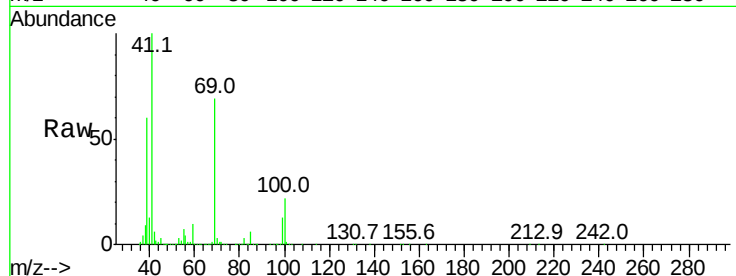
Tgt Ion: 69 Resp: 1703301

Ion Ratio Lower Upper

69 100

41 146.9 118.4 177.6

100 31.4 26.5 39.7



#44

2,2,4-Trimethylpentane

Concen: 11.516 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

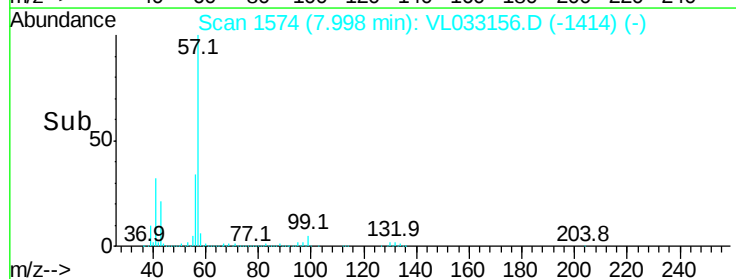
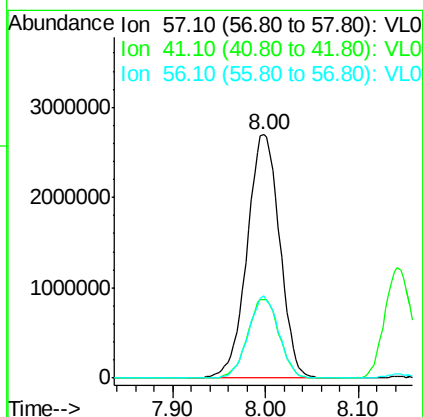
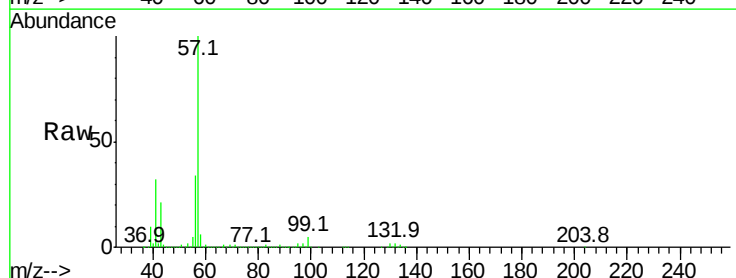
Tgt Ion: 57 Resp: 6572004

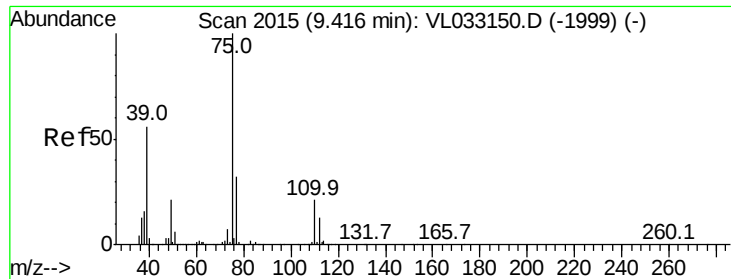
Ion Ratio Lower Upper

57 100

41 31.5 24.6 36.8

56 31.5 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 15.338 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. 0.02 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

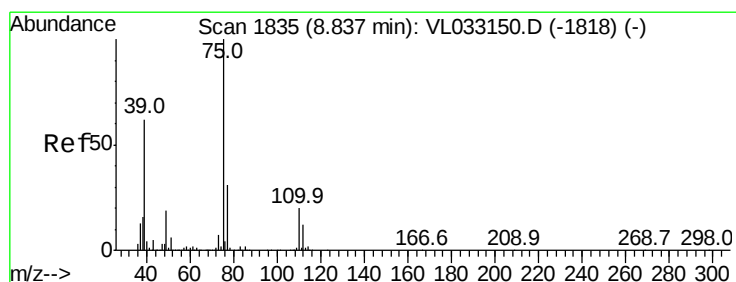
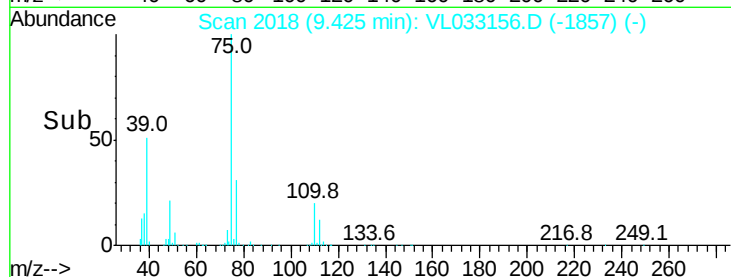
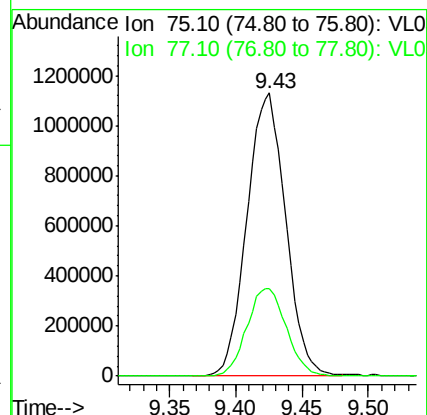
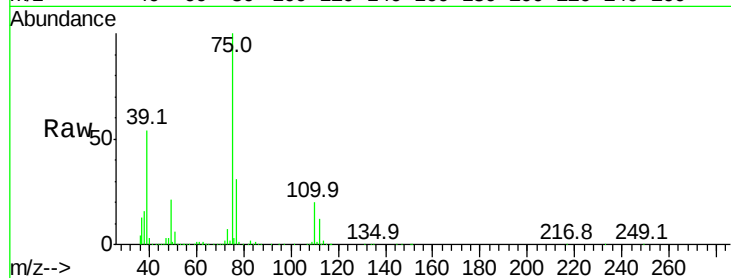
VSTDIC015

Tgt Ion: 75 Resp: 2296061

Ion Ratio Lower Upper

75 100

77 30.9 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 14.379 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

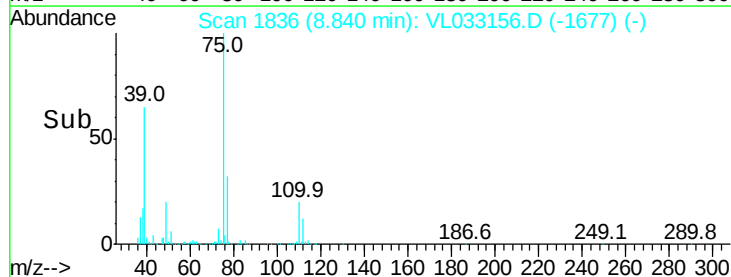
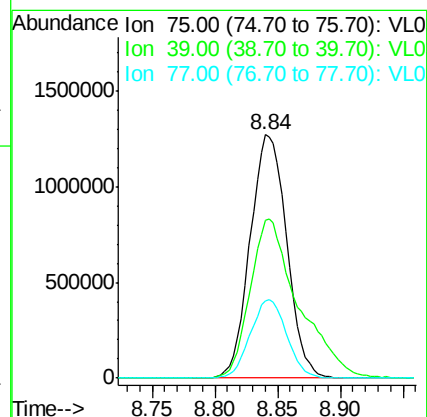
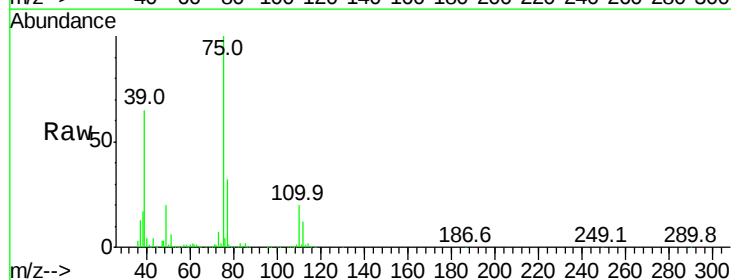
Tgt Ion: 75 Resp: 2580809

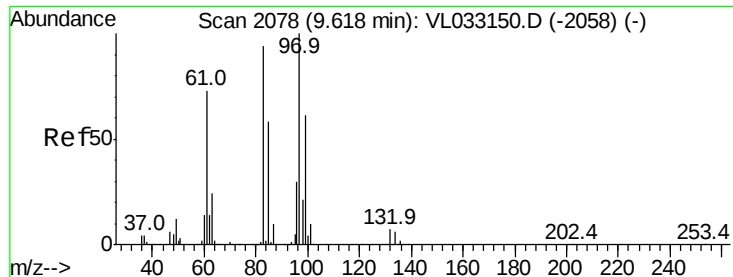
Ion Ratio Lower Upper

75 100

39 64.8 51.4 77.2

77 31.9 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 13.776 ppbv

RT: 9.62 min Scan# 2079

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 1628773

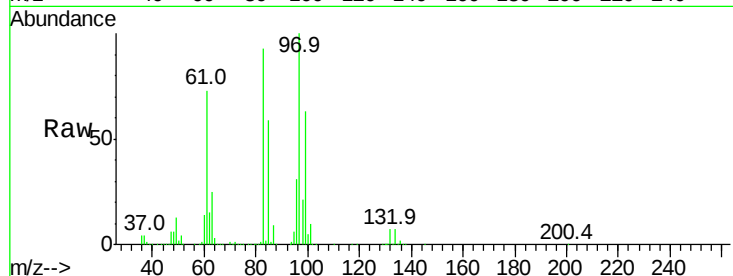
Ion Ratio Lower Upper

97 100

83 92.6 65.8 98.8

85 59.2 44.7 67.1

99 63.5 48.6 73.0

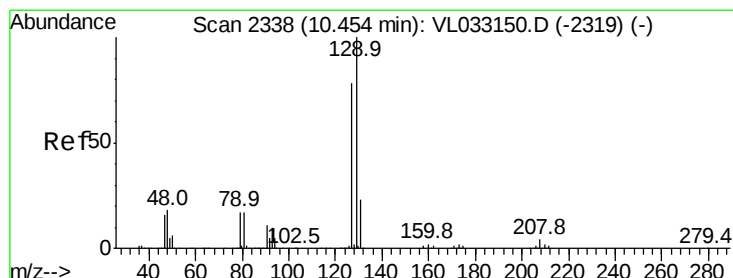
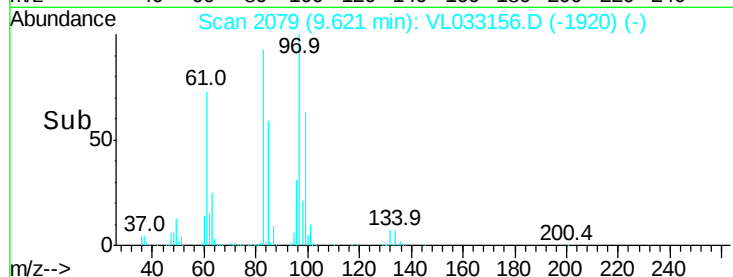
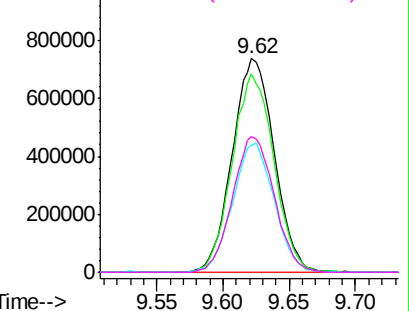


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 13.726 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. 0.02 min

Lab File: VL033156.D

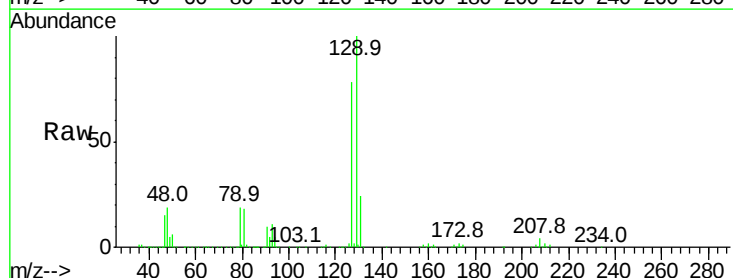
Acq: 4 Feb 2019 13:51

Tgt Ion: 129 Resp: 2705132

Ion Ratio Lower Upper

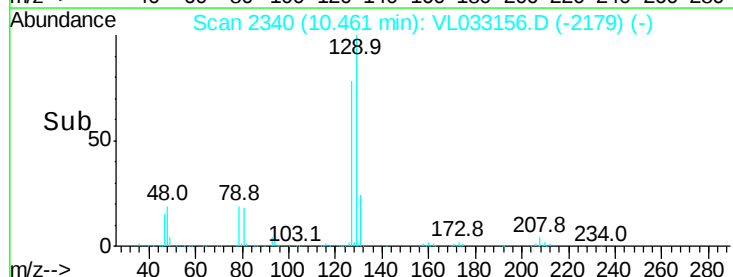
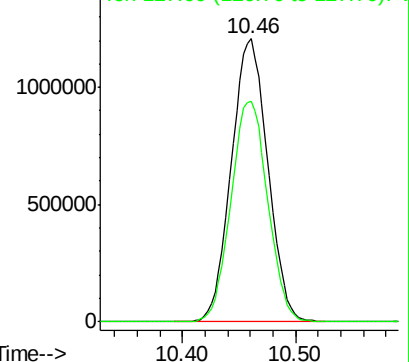
129 100

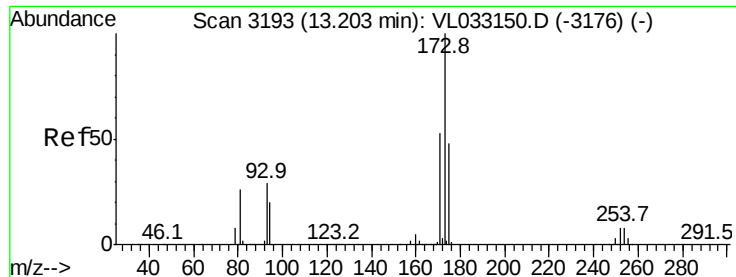
127 78.7 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 13.725 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

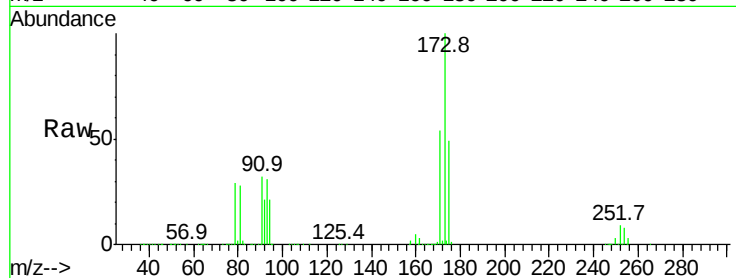
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 2244189

Ion	Ratio	Lower	Upper
173	100		
175	48.3	39.3	58.9
171	52.4	41.8	62.6

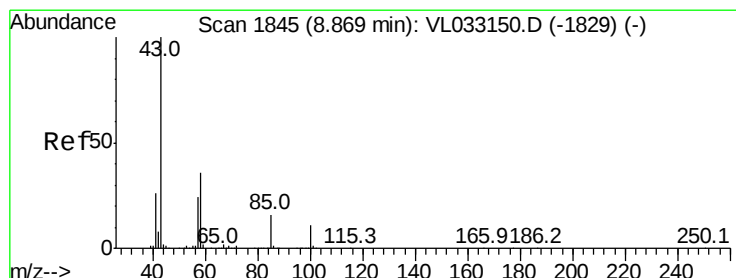
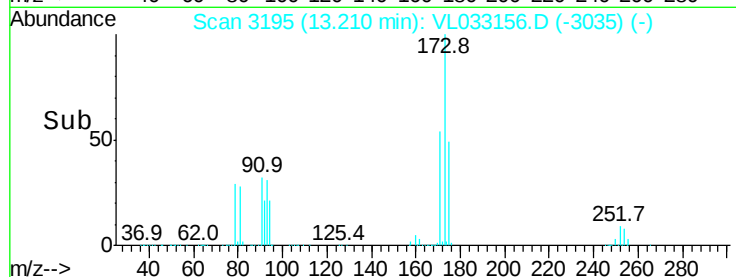
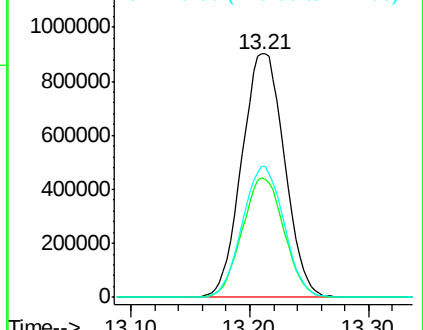


Abundance

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: 13.275 ppbv

RT: 8.88 min Scan# 1847

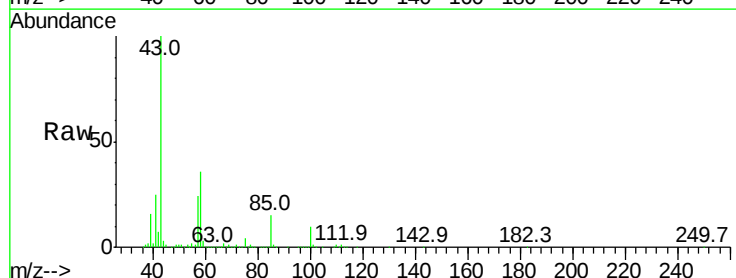
Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 43 Resp: 4156837

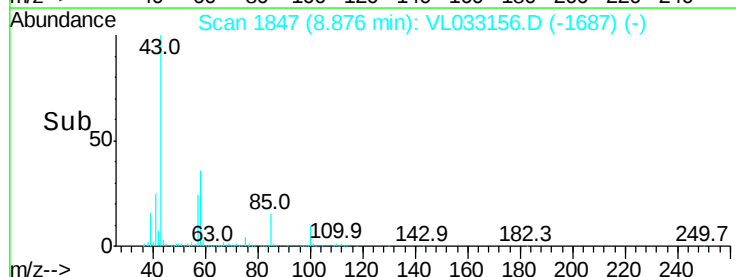
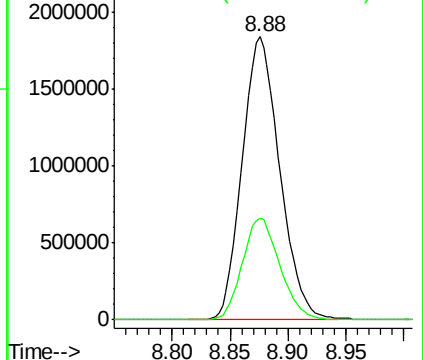
Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.7	43.1

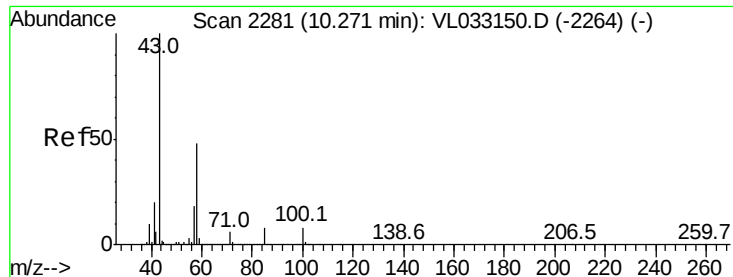


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.278 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

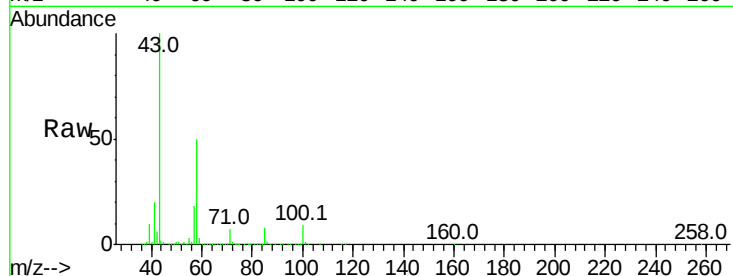
Tgt Ion: 43 Resp: 3425063

Ion Ratio Lower Upper

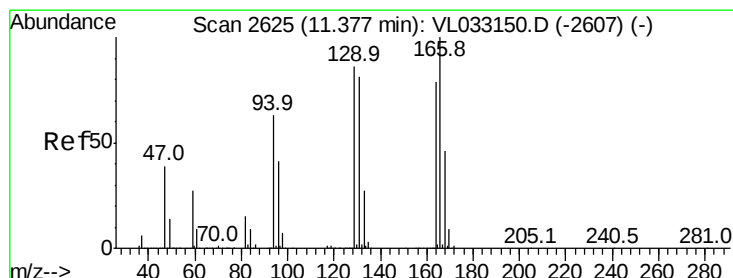
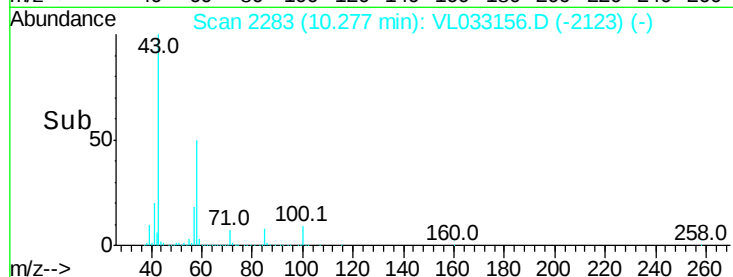
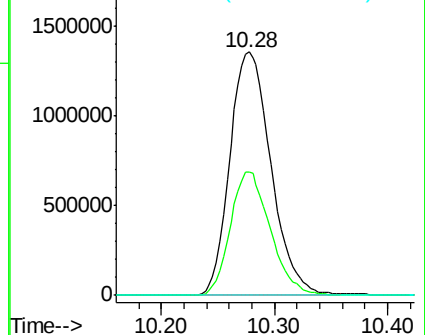
43 100

58 49.6 39.4 59.2

98 0.0 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: 9.808 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion:164 Resp: 1315866

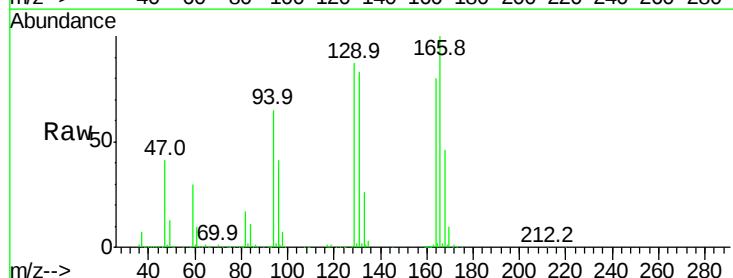
Ion Ratio Lower Upper

164 100

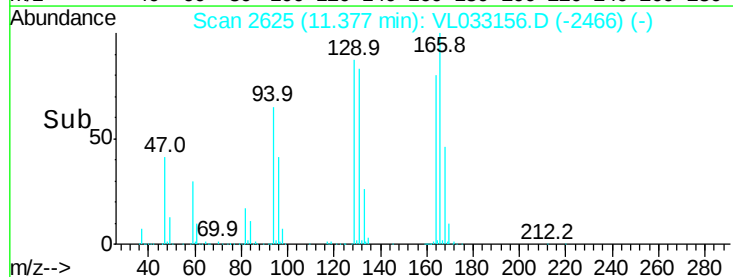
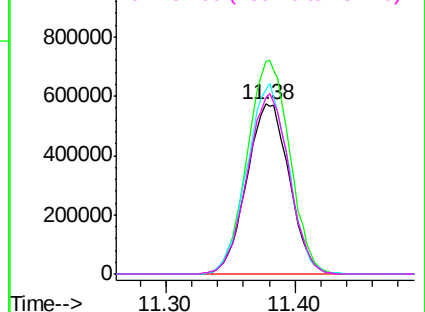
166 125.2 98.6 148.0

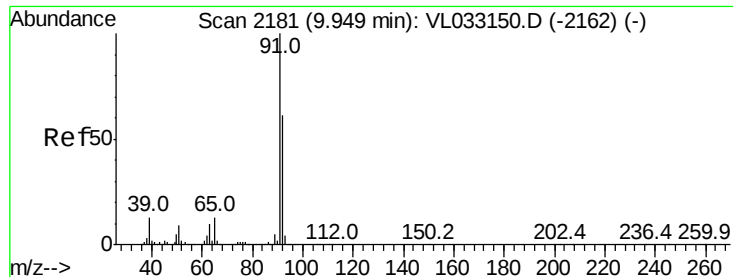
129 108.3 86.3 129.5

131 104.0 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: 11.657 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.02 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

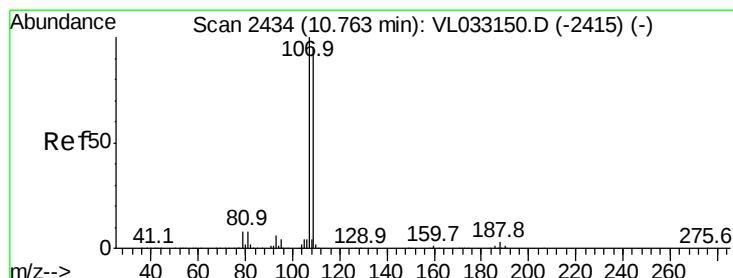
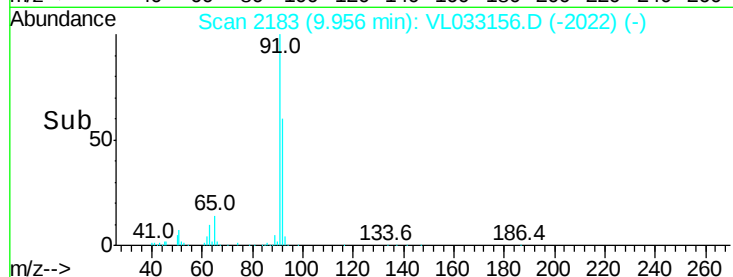
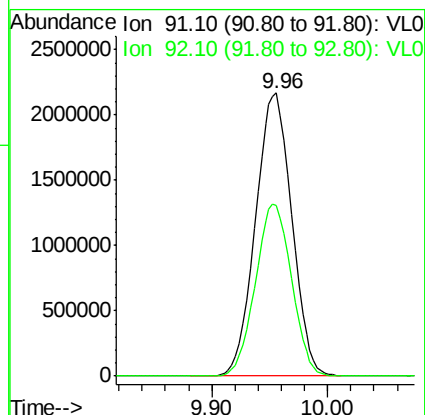
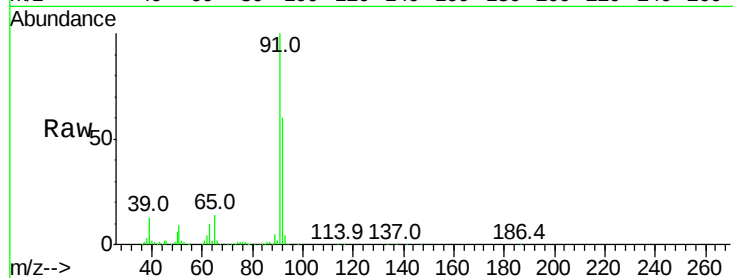
VSTDIC015

Tgt Ion: 91 Resp: 4720415

Ion Ratio Lower Upper

91 100

92 60.7 48.9 73.3



#54

1,2-Dibromoethane

Concen: 11.524 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.01 min

Lab File: VL033156.D

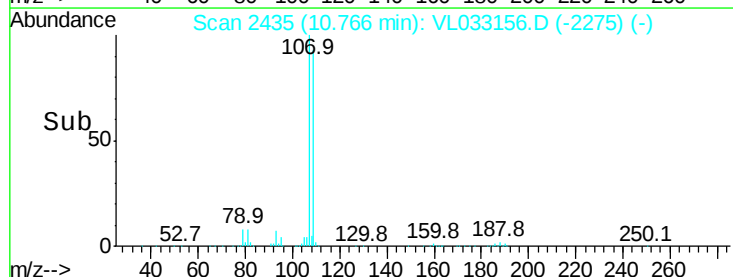
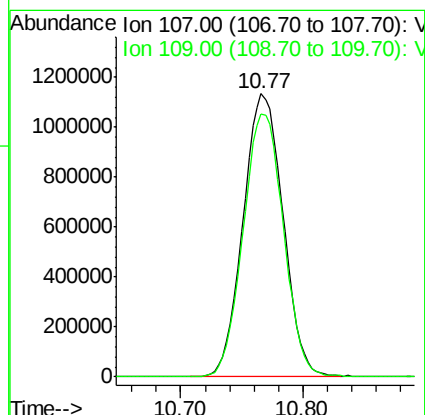
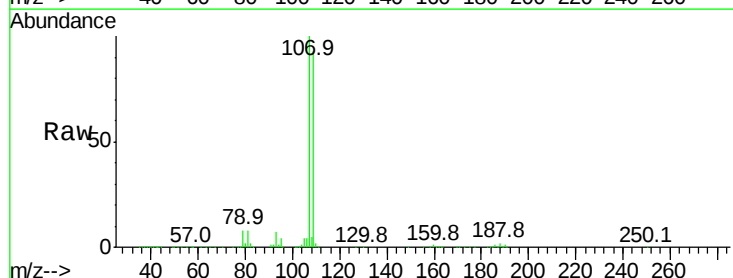
Acq: 4 Feb 2019 13:51

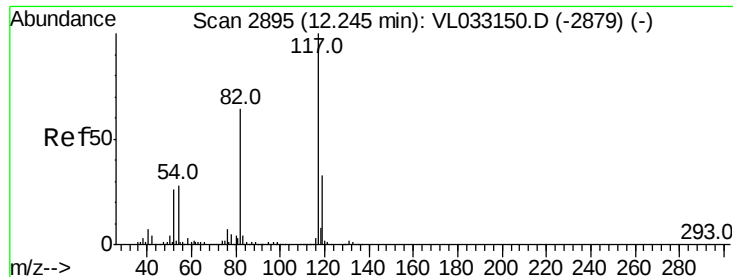
Tgt Ion: 107 Resp: 2562899

Ion Ratio Lower Upper

107 100

109 92.8 74.7 112.1

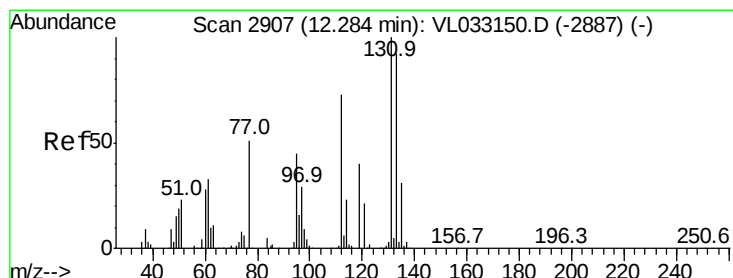
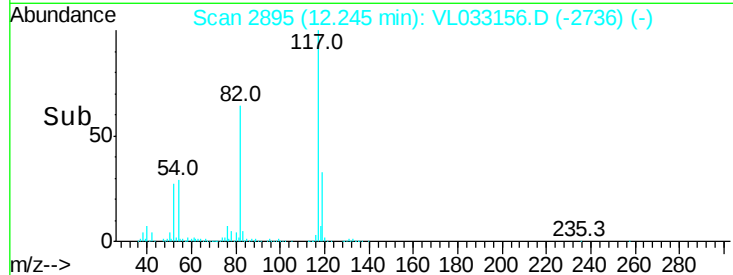
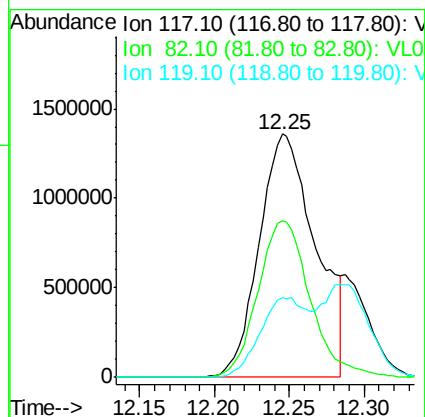
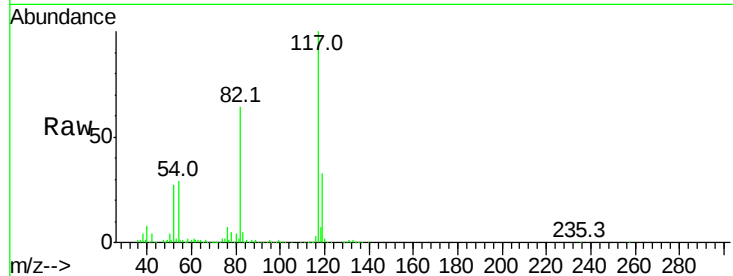




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

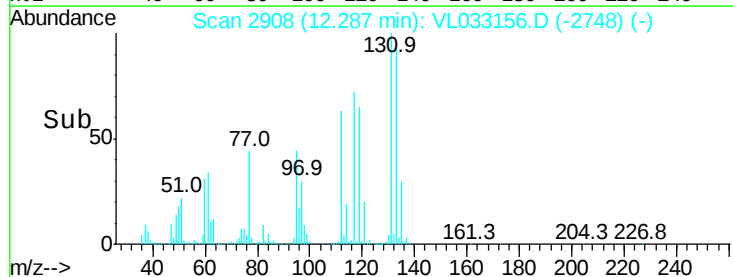
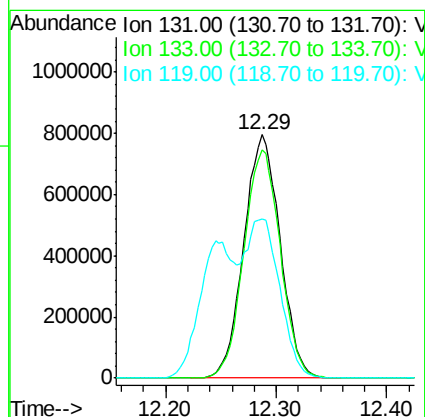
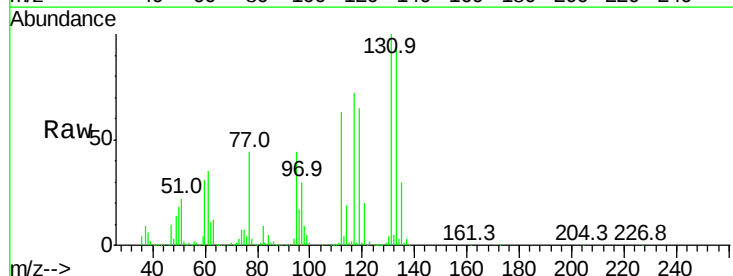
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

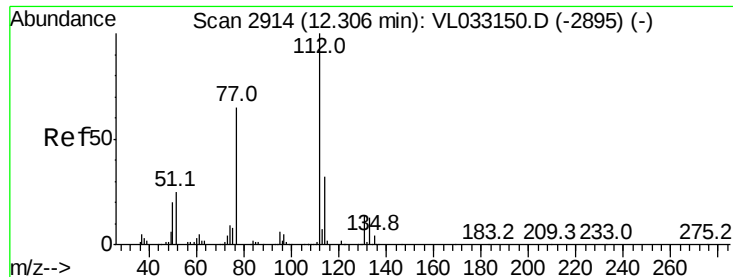
Tgt Ion:117 Resp: 3564093
Ion Ratio Lower Upper
117 100
82 59.6 49.3 73.9
119 29.4 27.1 40.7



#56
1,1,1,2-Tetrachloroethane
Concen: 11.445 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion:131 Resp: 1814485
Ion Ratio Lower Upper
131 100
133 94.3 76.2 114.4
119 64.7 46.9 70.3

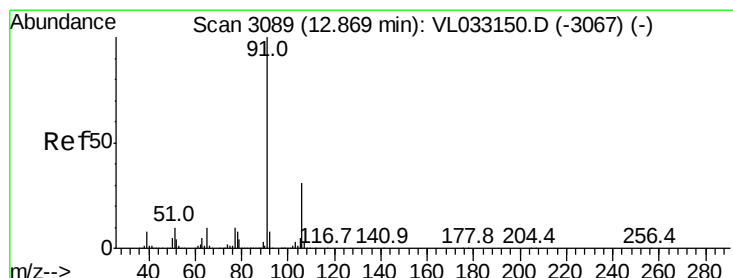
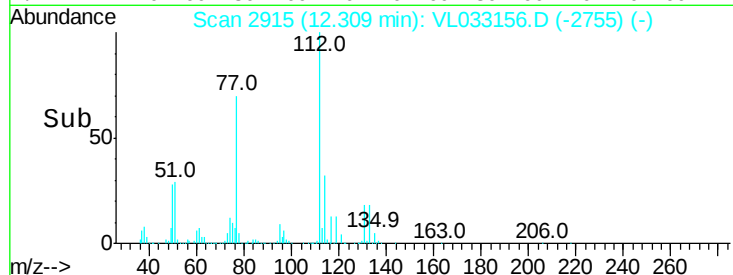
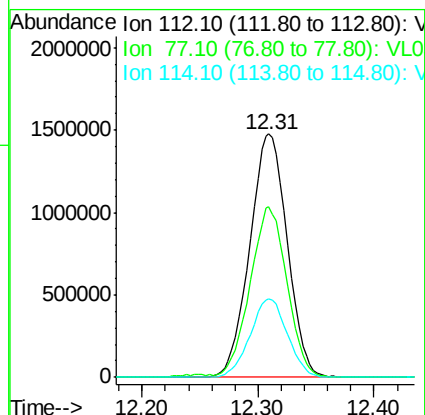
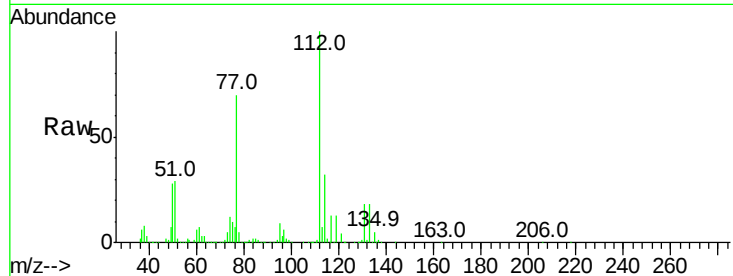




#57
Chlorobenzene
Concen: 10.594 ppbv
RT: 12.31 min Scan# 2915
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

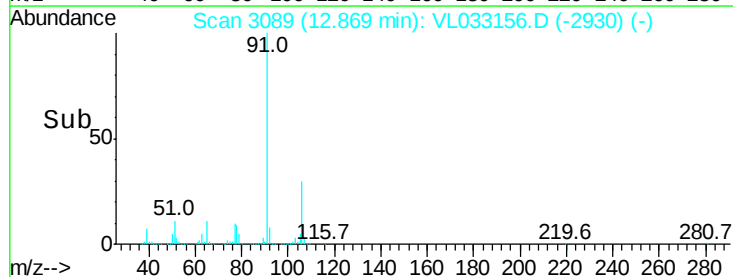
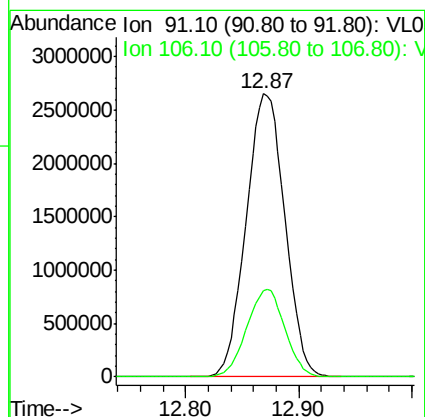
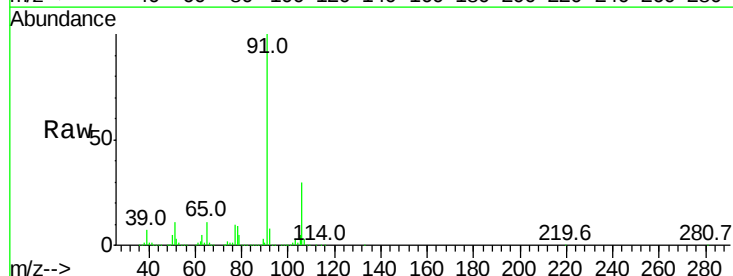
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

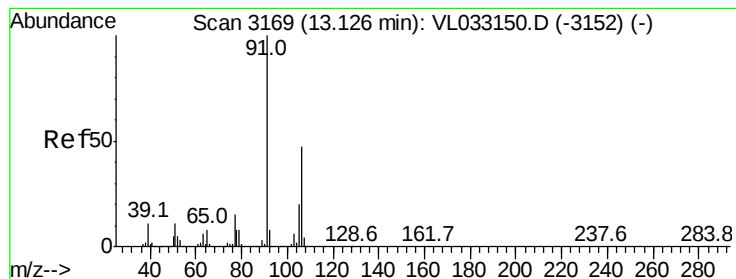
Tgt Ion: 112 Resp: 3322980
Ion Ratio Lower Upper
112 100
77 69.9 52.8 79.2
114 32.3 29.7 36.3



#58
Ethyl Benzene
Concen: 10.783 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.01 min
Lab File: VL033156.D
Acq: 4 Feb 2019 13:51

Tgt Ion: 91 Resp: 6303451
Ion Ratio Lower Upper
91 100
106 30.4 24.7 37.1





#59

m/p-Xylene

Concen: 9.334 ppbv

RT: 13.13 min Scan# 3171

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

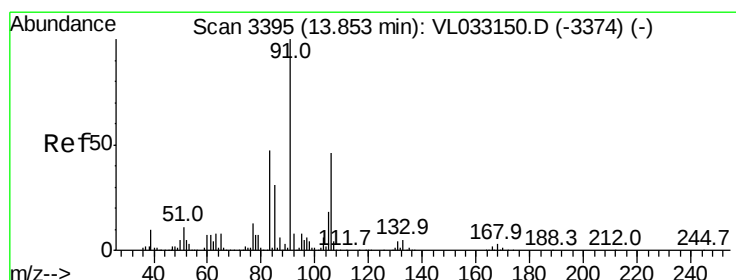
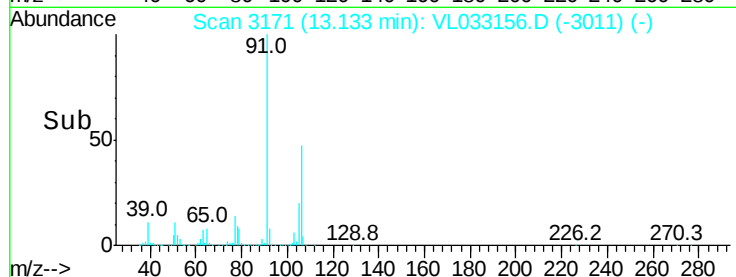
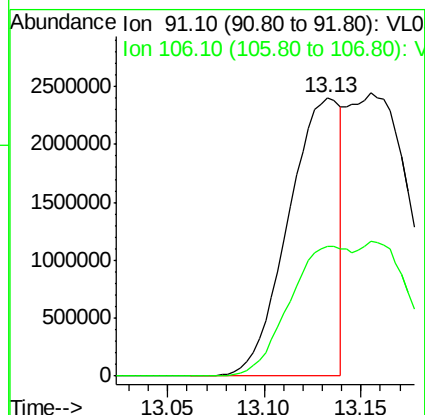
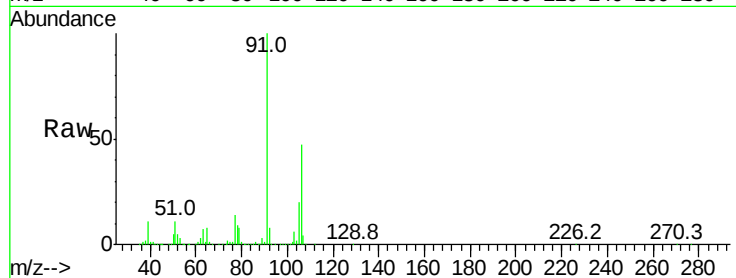
VSTDIC015

Tgt Ion: 91 Resp: 4450305

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 10.518 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VL033156.D

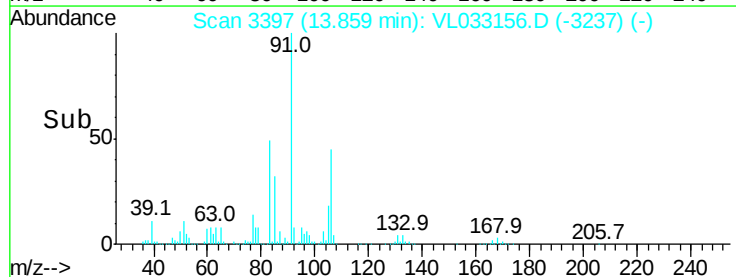
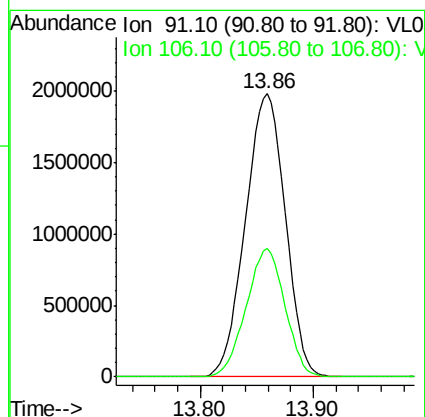
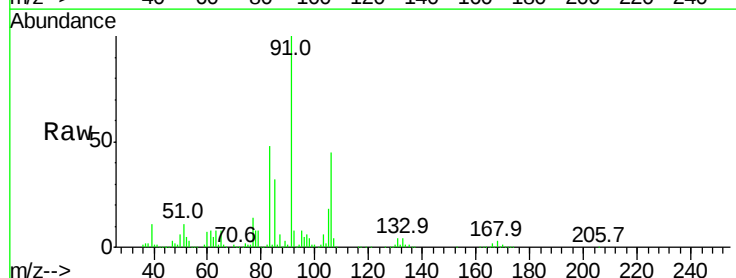
Acq: 4 Feb 2019 13:51

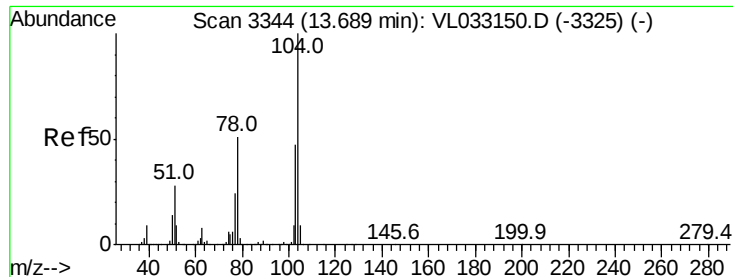
Tgt Ion: 91 Resp: 4850668

Ion Ratio Lower Upper

91 100

106 44.2 23.2 69.5





#61

Styrene

Concen: 11.299 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

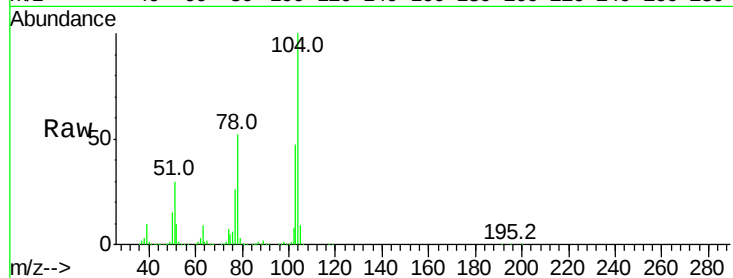
Tgt Ion:104 Resp: 3997094

Ion Ratio Lower Upper

104 100

78 52.6 39.7 59.5

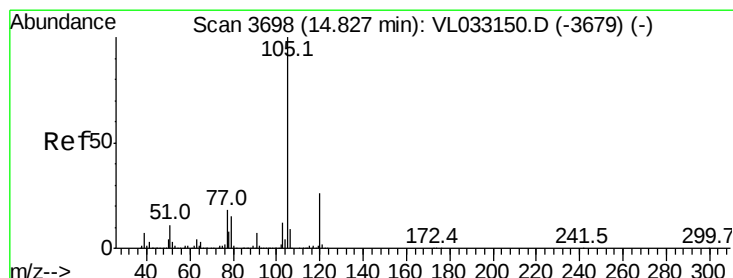
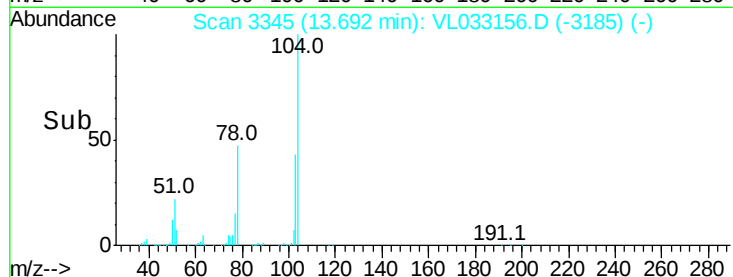
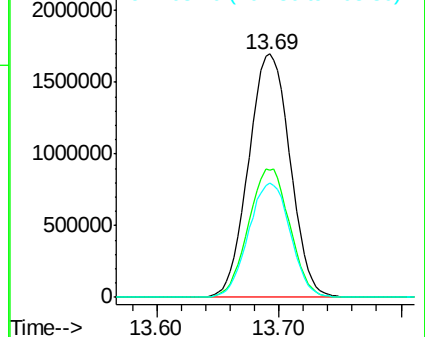
103 47.2 37.7 56.5



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: 10.664 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. 0.01 min

Lab File: VL033156.D

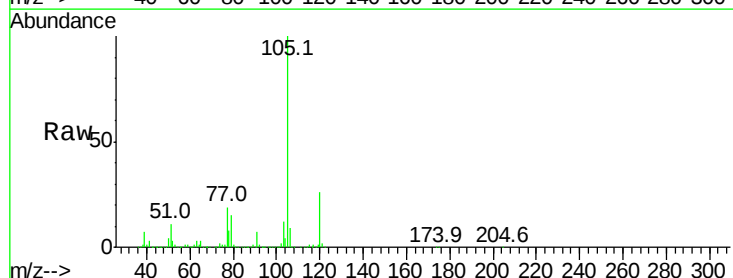
Acq: 4 Feb 2019 13:51

Tgt Ion:105 Resp: 6991622

Ion Ratio Lower Upper

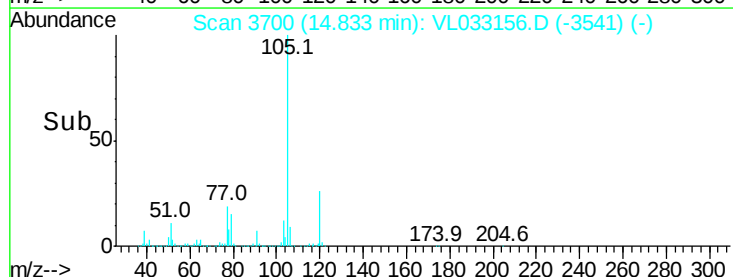
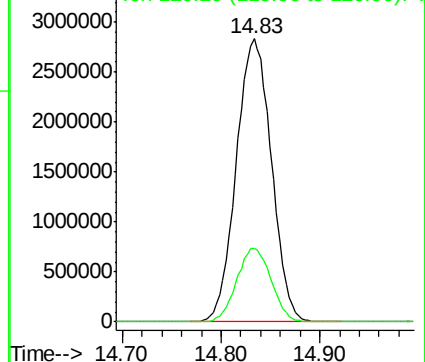
105 100

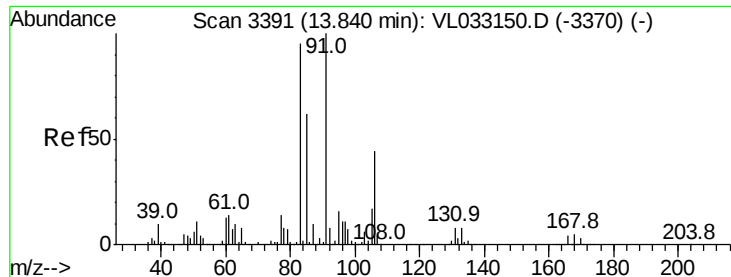
120 25.6 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

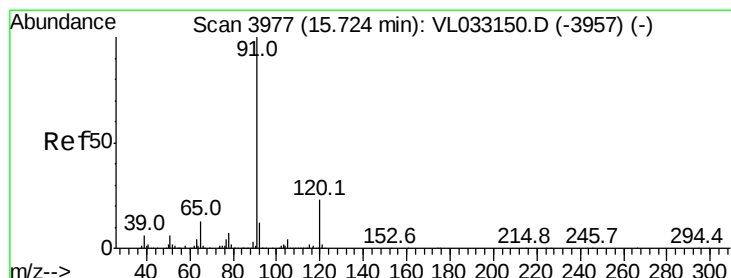
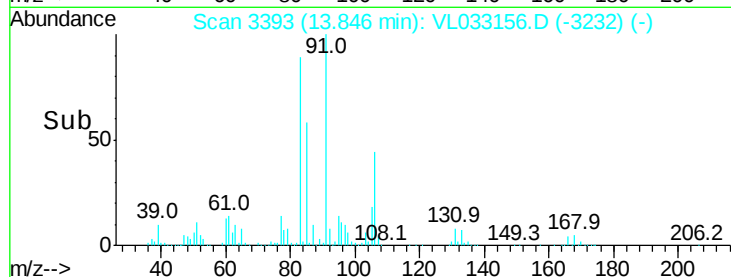
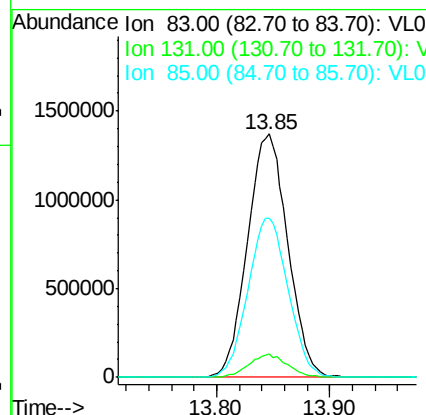
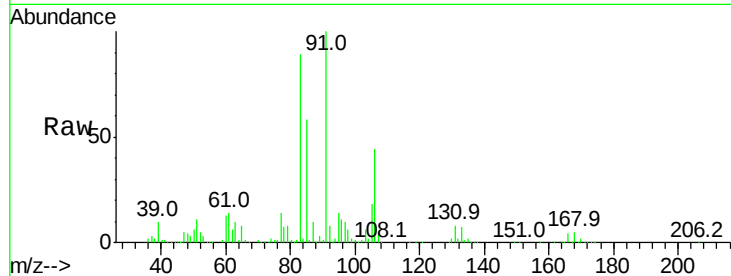




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.749 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.02 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

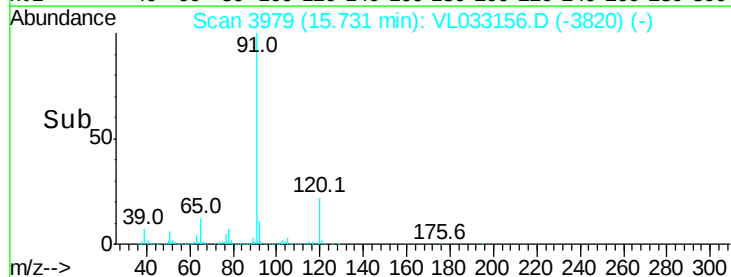
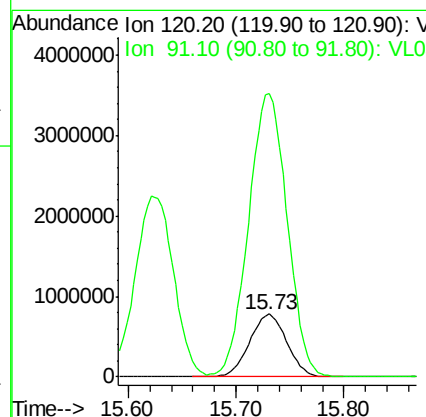
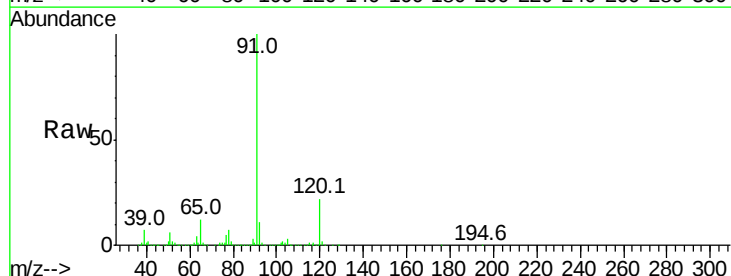
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

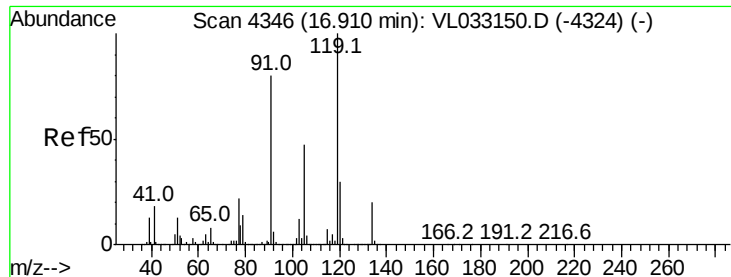
Tgt Ion: 83 Resp: 3391987
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.7
 85 65.3 32.5 97.4



#64
 n-propylbenzene
 Concen: 11.060 ppbv
 RT: 15.73 min Scan# 3979
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion: 120 Resp: 1858068
 Ion Ratio Lower Upper
 120 100
 91 470.0 370.2 555.2





#65

tert-Butylbenzene

Concen: 10.862 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. 0.02 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

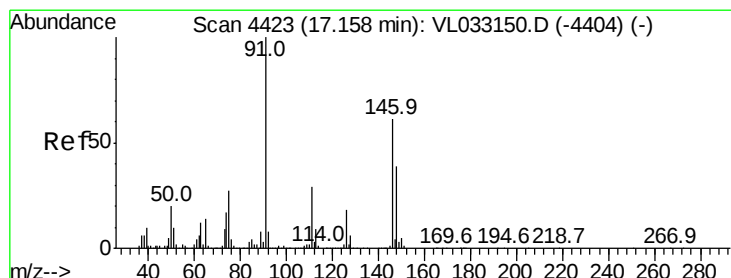
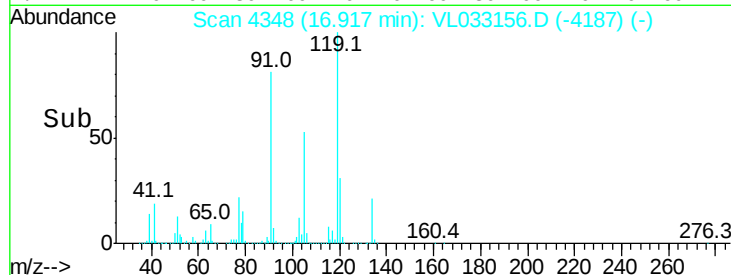
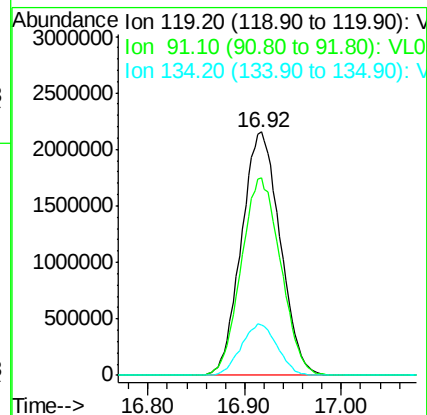
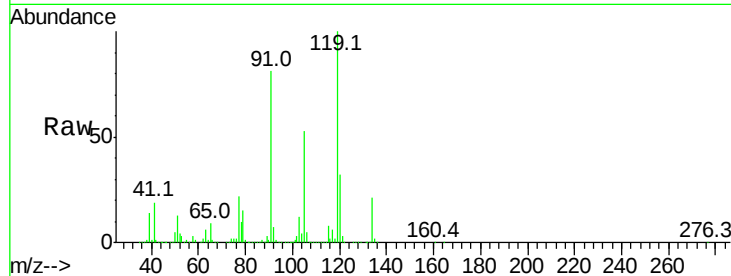
Tgt Ion:119 Resp: 5993341

Ion Ratio Lower Upper

119 100

91 82.5 63.0 94.6

134 19.8 15.5 23.3



#66

Benzyl Chloride

Concen: 14.786 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

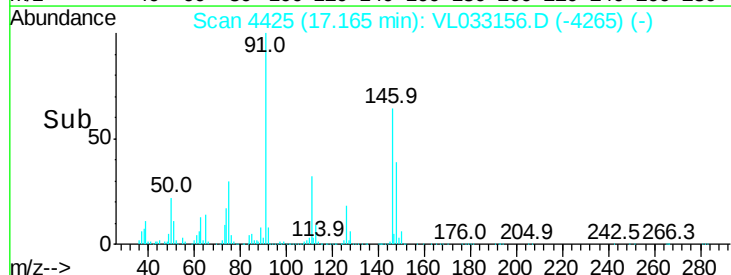
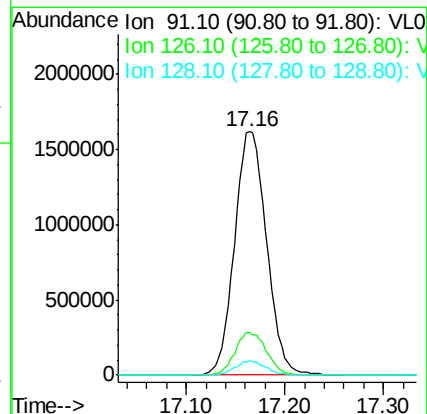
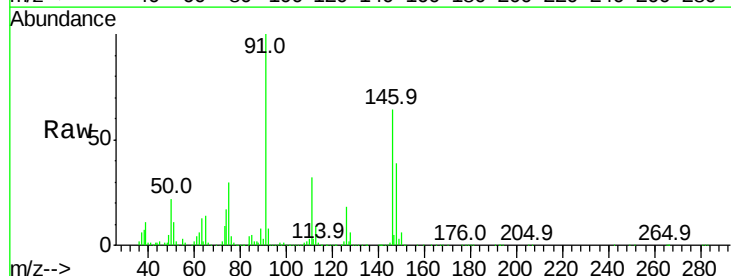
Tgt Ion: 91 Resp: 3654321

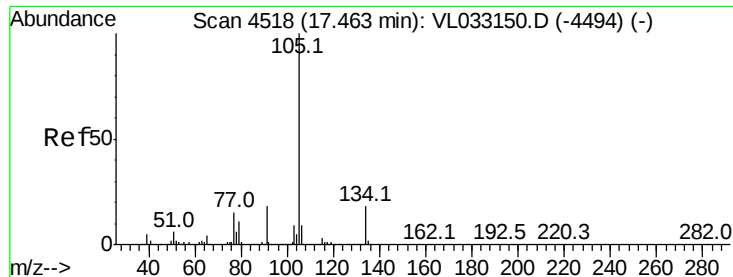
Ion Ratio Lower Upper

91 100

126 17.3 14.9 22.3

128 5.5 4.7 7.1

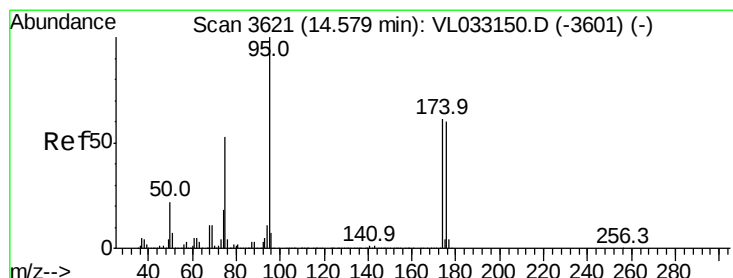
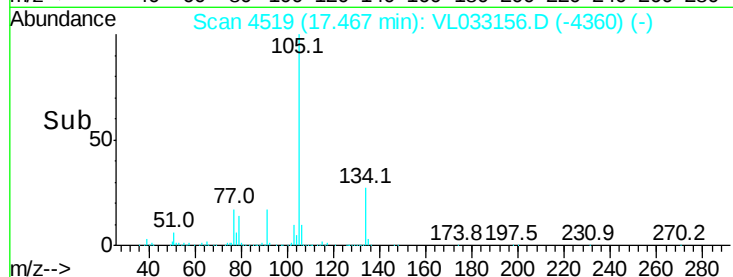
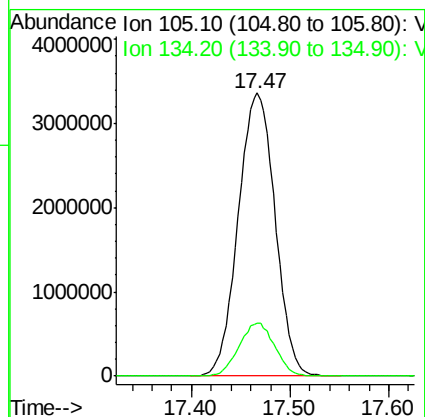
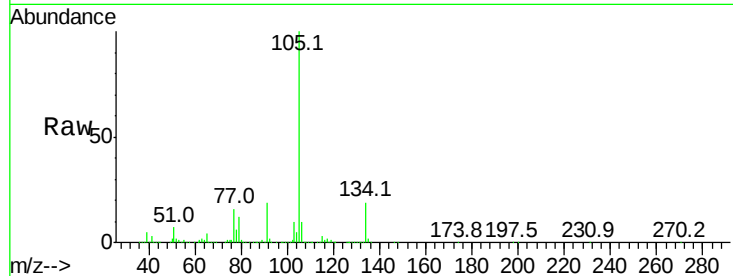




#67
 sec-Butylbenzene
 Concen: 11.092 ppbv
 RT: 17.47 min Scan# 4519
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

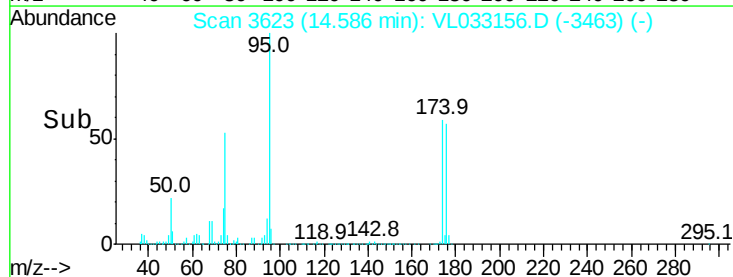
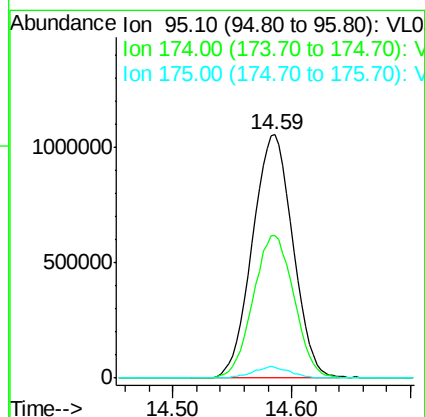
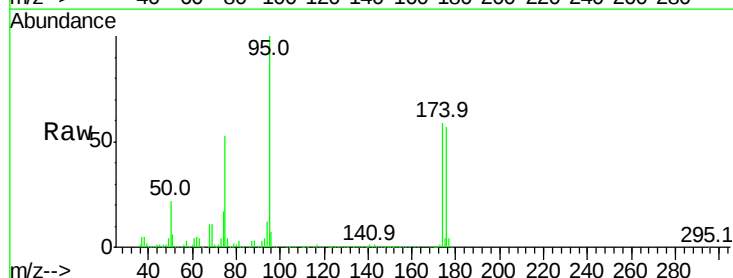
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

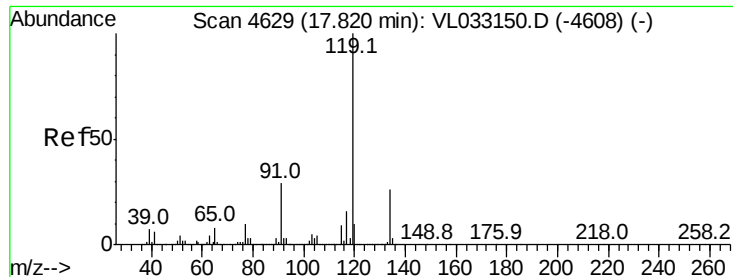
Tgt Ion: 105 Resp: 8693151
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.221 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion: 95 Resp: 2481375
 Ion Ratio Lower Upper
 95 100
 174 59.5 49.2 73.8
 175 4.4 3.7 5.5



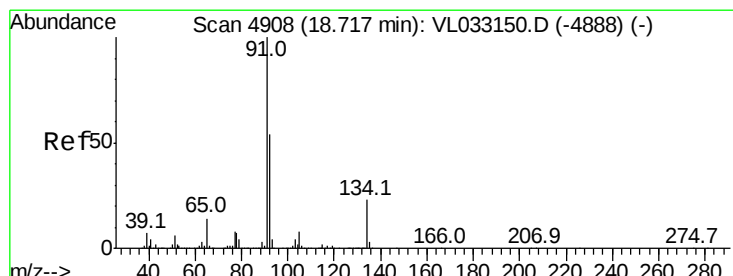
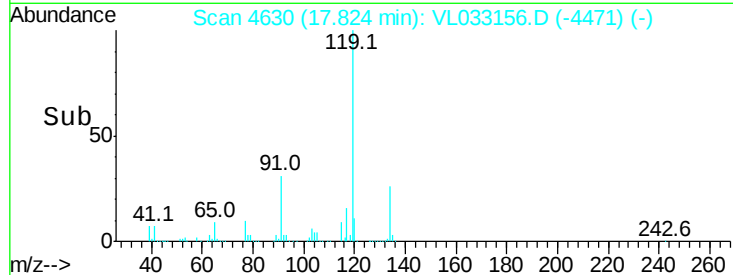
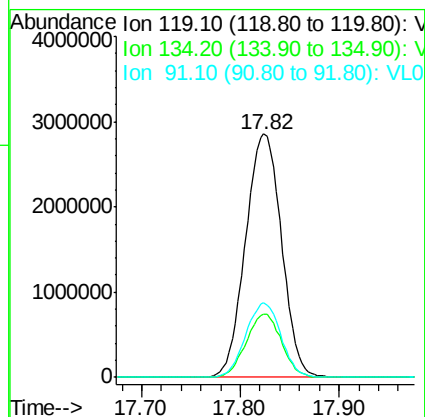
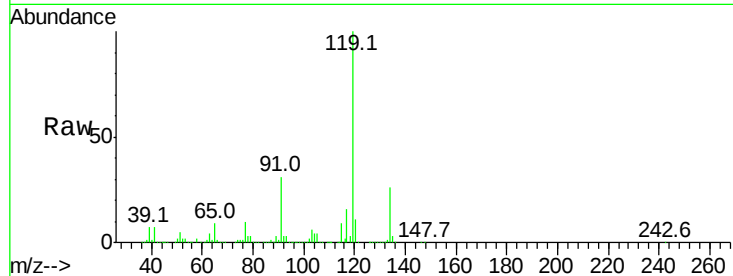


#69
 p-Isopropyltoluene
 Concen: 11.669 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 7208295

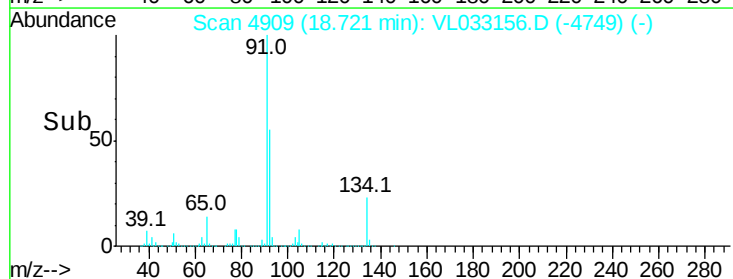
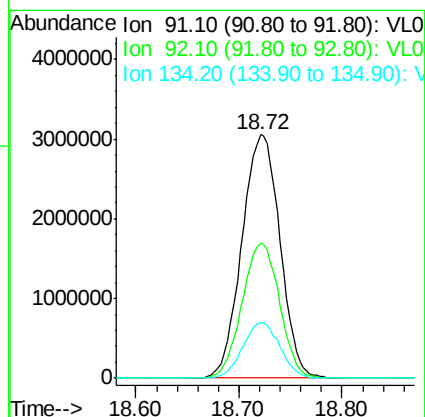
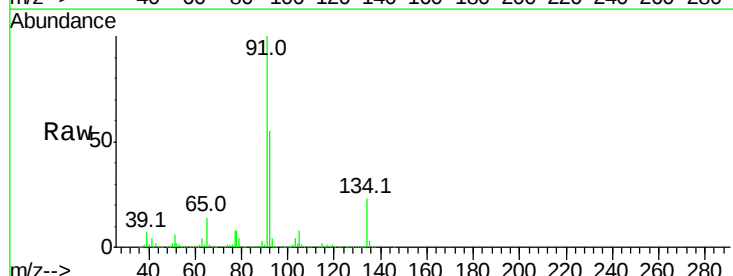
Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	30.0	22.6	33.8

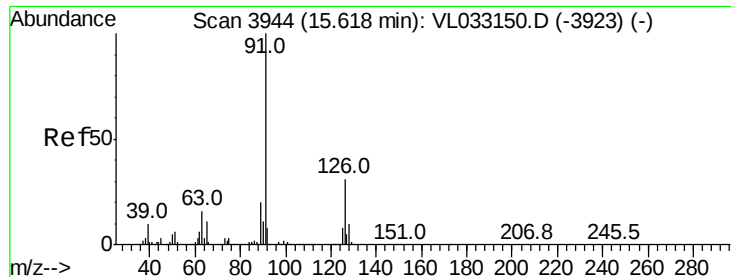


#70
 n-Butylbenzene
 Concen: 12.461 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion: 91 Resp: 7831549

Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.7	65.5
134	22.2	18.4	27.6





#71

2-Chlorotoluene

Concen: 11.208 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

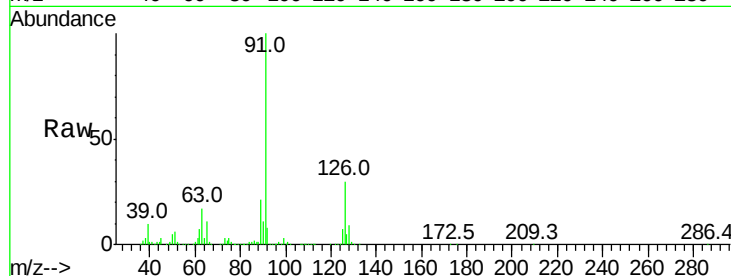
VSTDIC015

Tgt Ion: 91 Resp: 5592831

Ion Ratio Lower Upper

91 100

126 29.7 12.3 49.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

4000000

3000000

2000000

1000000

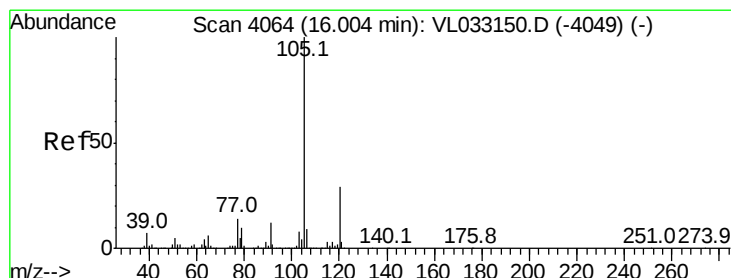
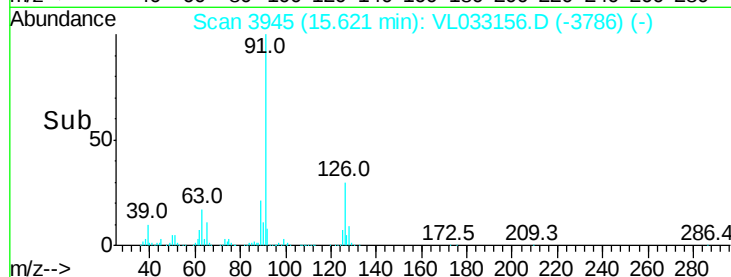
0

15.50

15.60

15.70

Time-->



#72

4-Ethyltoluene

Concen: 11.556 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion: 105 Resp: 5973621

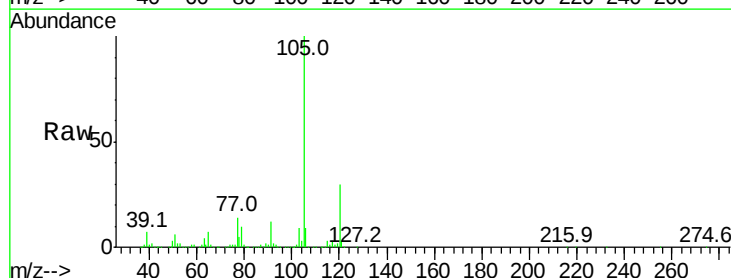
Ion Ratio Lower Upper

105 100

120 29.2 23.2 34.8

91 12.7 9.5 14.3

77 13.8 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

3000000

2000000

1000000

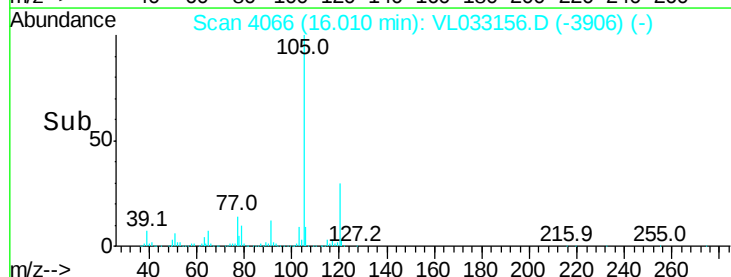
0

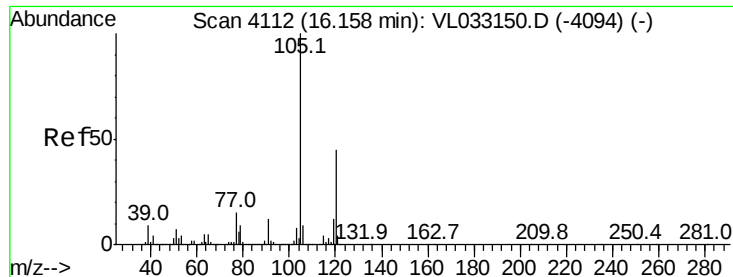
15.90

16.00

16.10

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 12.123 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

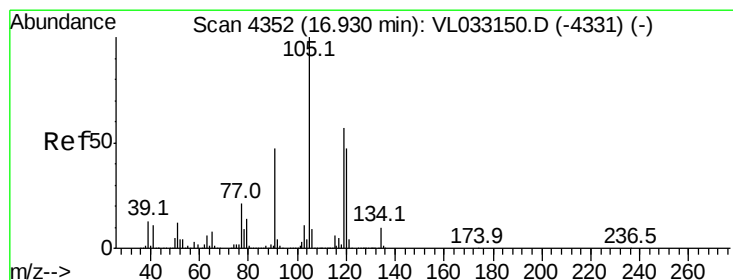
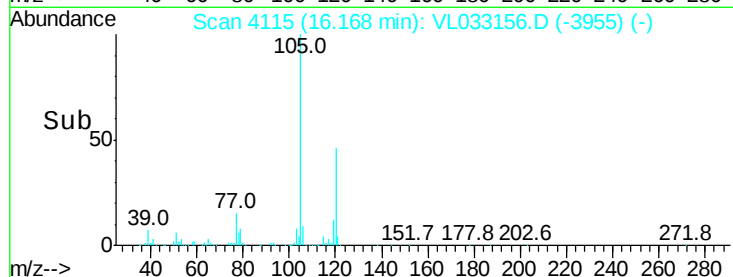
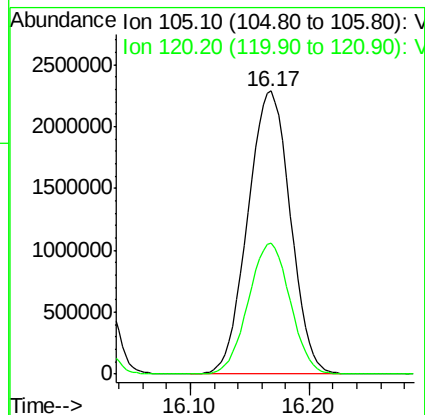
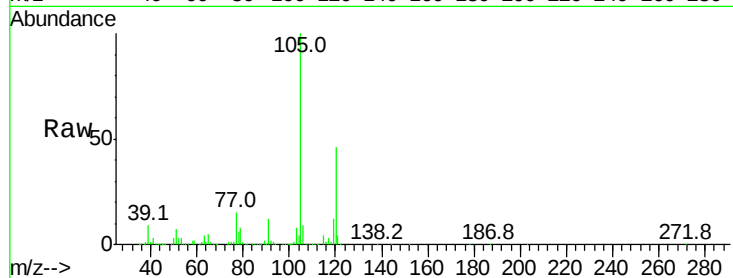
VSTDIC015

Tgt Ion:105 Resp: 5649882

Ion Ratio Lower Upper

105 100

120 46.2 38.0 57.0



#74

1,2,4-Trimethylbenzene

Concen: 11.991 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Tgt Ion:105 Resp: 5504221

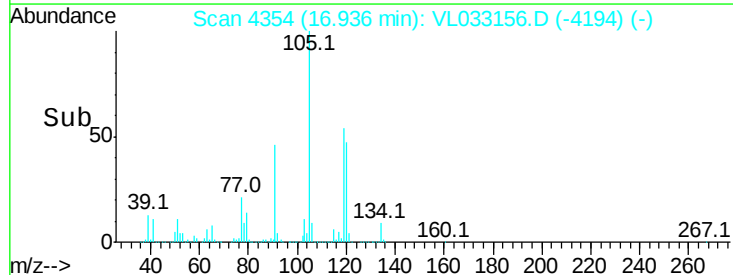
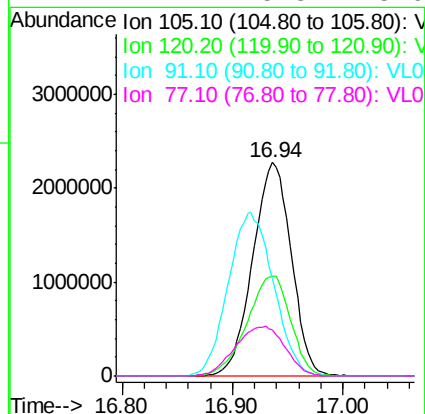
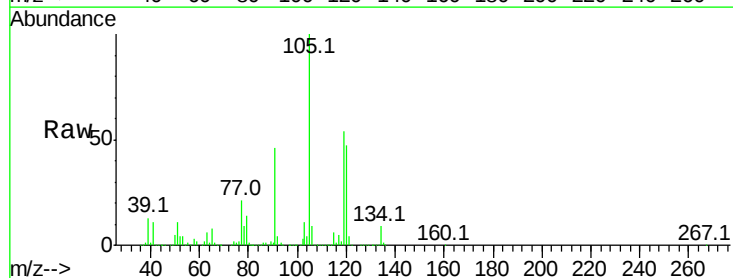
Ion Ratio Lower Upper

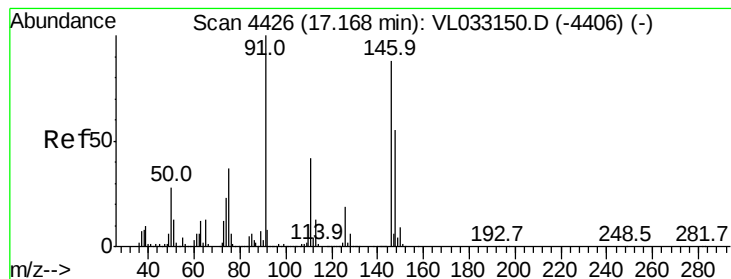
105 100

120 46.5 38.2 57.4

91 45.7 35.0 52.4

77 21.4 15.8 23.6





#75

1,3-Dichlorobenzene

Concen: 11.358 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

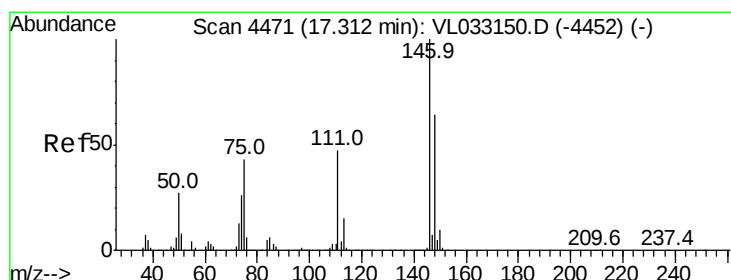
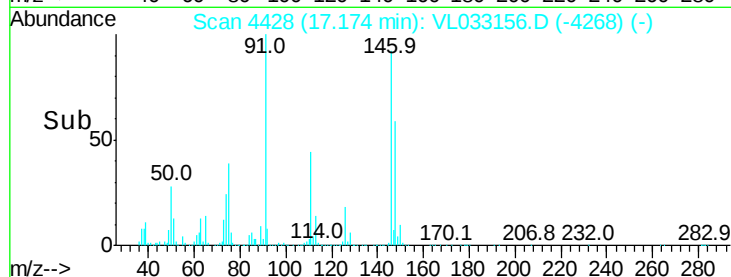
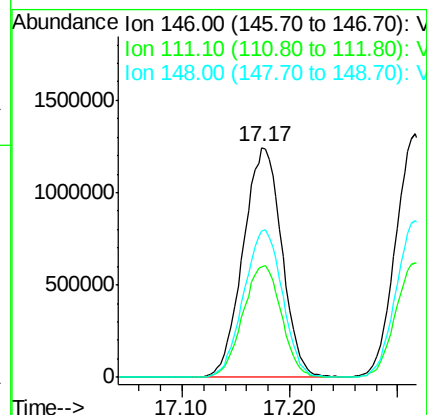
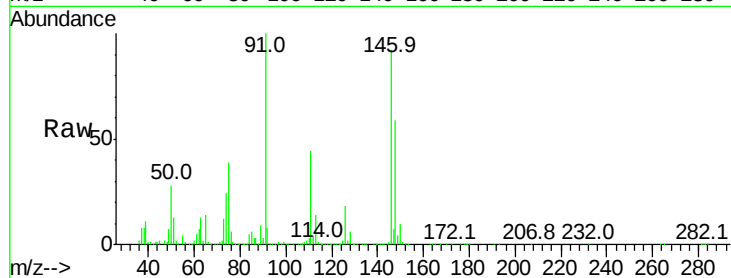
Tgt Ion:146 Resp: 3106290

Ion Ratio Lower Upper

146 100

111 48.5 24.0 72.0

148 64.2 31.9 95.7



#76

1,4-Dichlorobenzene

Concen: 11.748 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

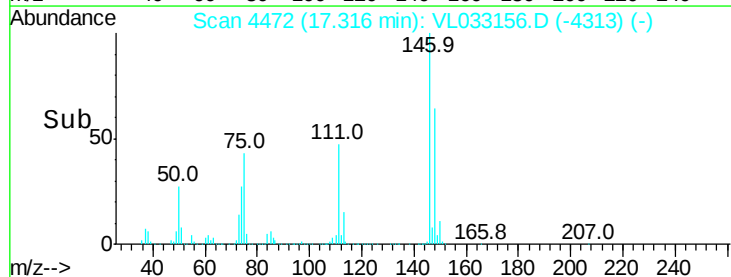
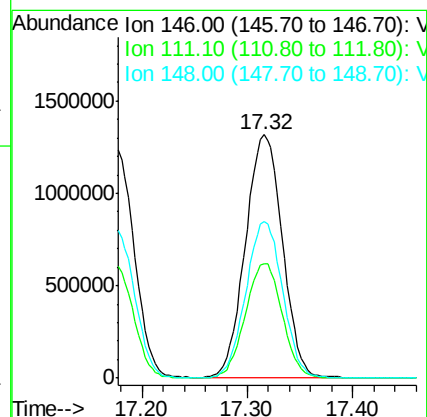
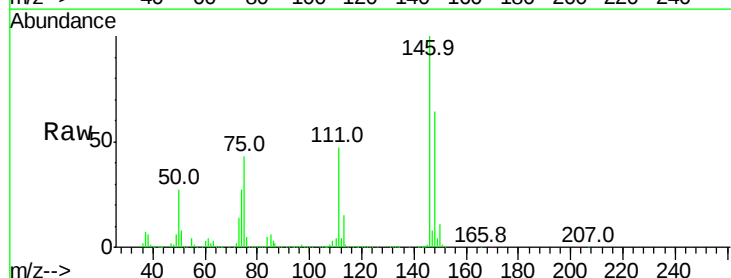
Tgt Ion:146 Resp: 3208246

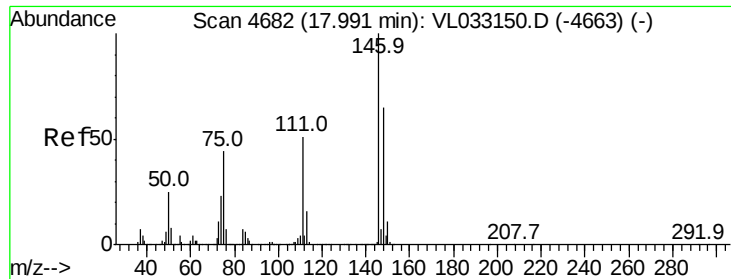
Ion Ratio Lower Upper

146 100

111 47.2 23.4 70.0

148 64.3 31.9 95.9

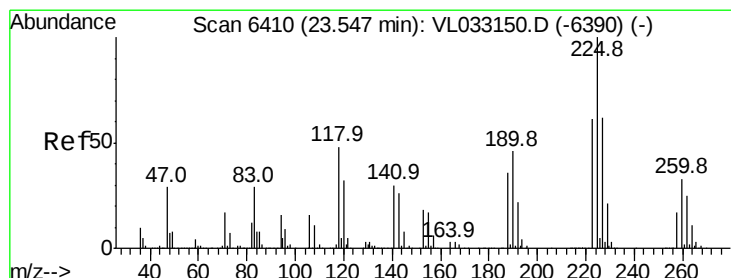
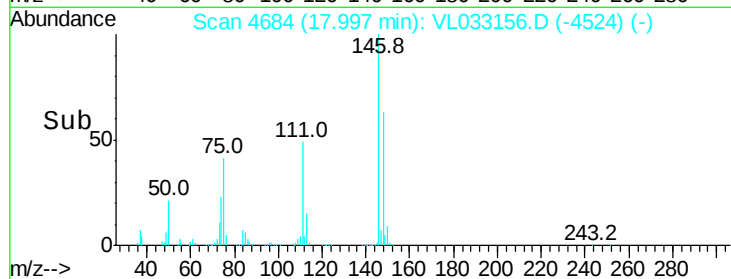
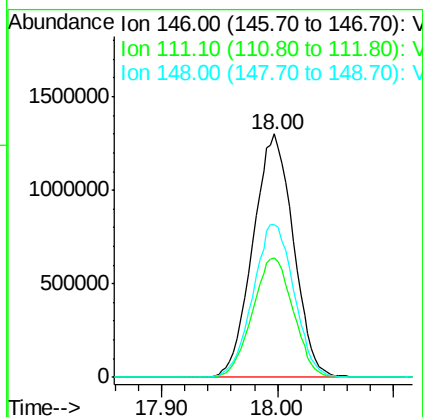
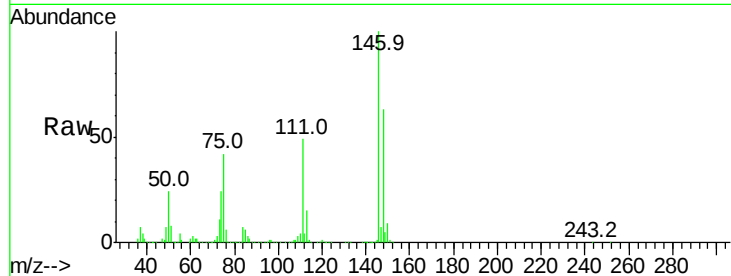




#77
 1,2-Dichlorobenzene
 Concen: 11.936 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

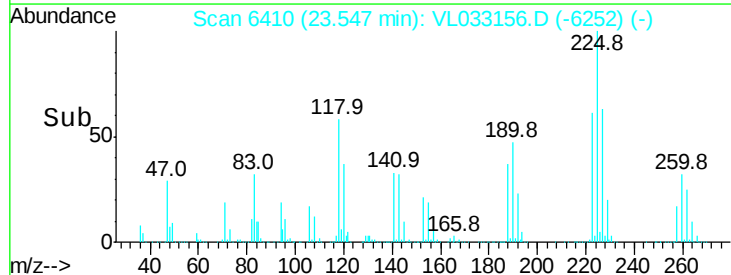
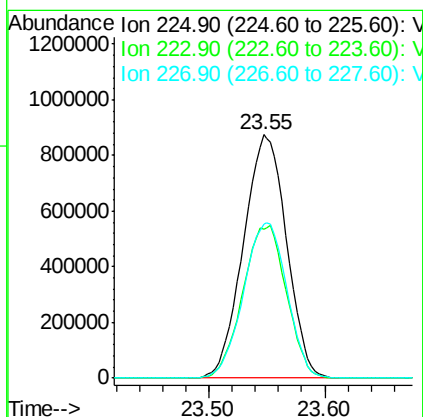
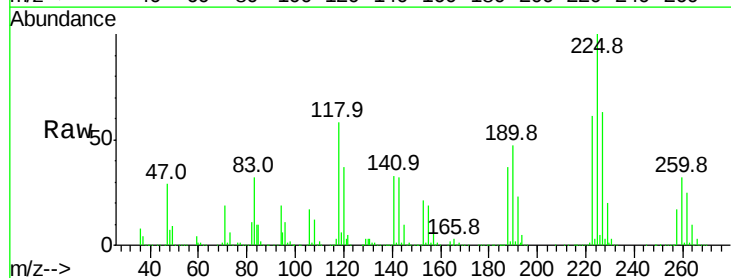
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

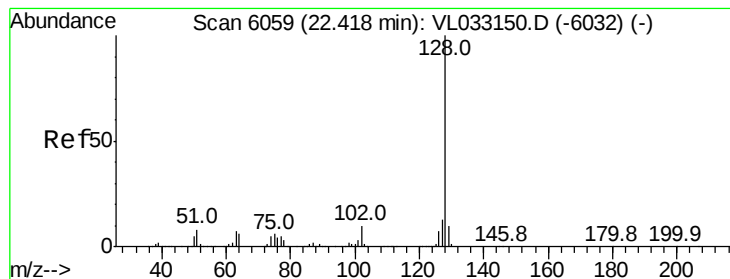
Tgt Ion:146 Resp: 3148517
 Ion Ratio Lower Upper
 146 100
 111 49.5 25.1 75.3
 148 64.0 32.0 96.2



#78
 Hexachloro-1,3-Butadiene
 Concen: 18.434 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Tgt Ion:225 Resp: 2252807
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.2 75.4
 227 64.5 51.1 76.7





#79

Naphthalene

Concen: 21.195 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

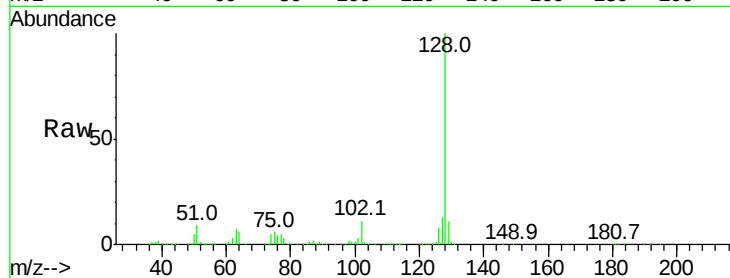
Tgt Ion:128 Resp: 6379330

Ion Ratio Lower Upper

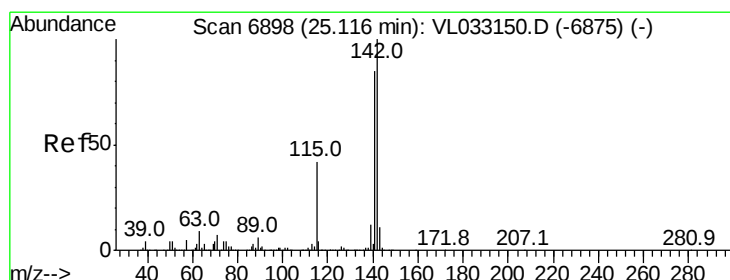
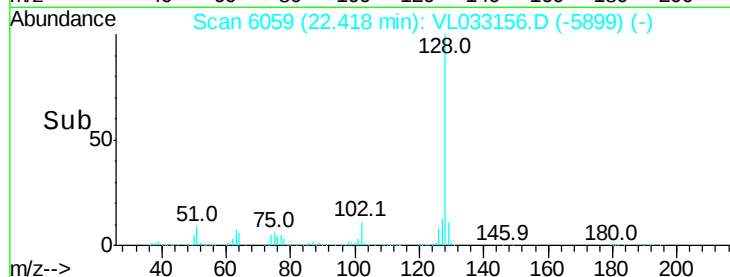
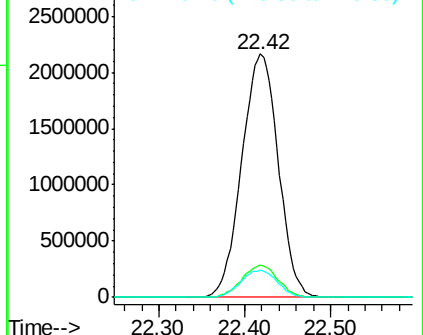
128 100

127 13.4 10.6 16.0

129 11.3 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: 34.044 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.01 min

Lab File: VL033156.D

Acq: 4 Feb 2019 13:51

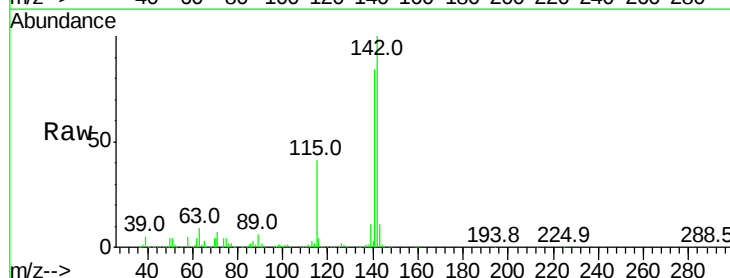
Tgt Ion:142 Resp: 3022516

Ion Ratio Lower Upper

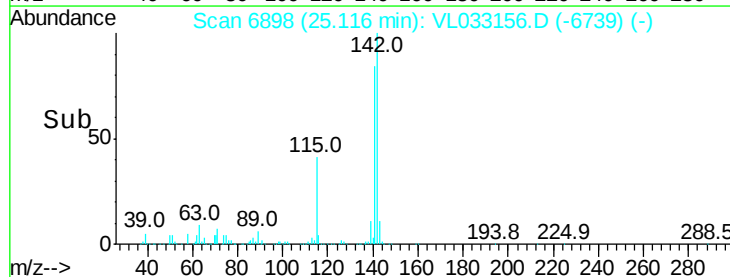
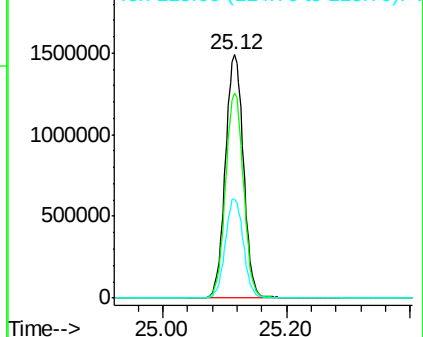
142 100

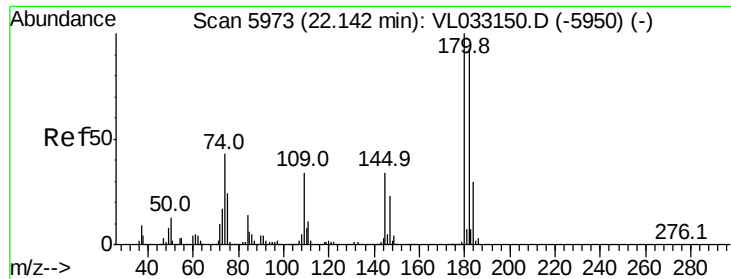
141 83.6 66.5 99.7

115 40.7 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: 18.442 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.01 min
 Lab File: VL033156.D
 Acq: 4 Feb 2019 13:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2921924
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.2 114.4
 184 30.9 24.6 36.8

