

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102519\
 Data File : VL034361.D
 Acq On : 25 Oct 2019 12:29
 Operator : SY/AP
 Sample : VL1025ABS01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

Quant Time: Oct 25 23:27:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	894865	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1892272	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2081087	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1601850	9.09	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	1073748	6.960	ppbv	98
3) Chlorodifluoromethane	2.96	51	963316	9.184	ppbv	100
4) Chloromethane	3.11	50	579617	9.342	ppbv	99
5) Vinyl Chloride	3.23	62	548068	9.264	ppbv	99
6) Bromomethane	3.46	94	292595	10.101	ppbv	97
7) Chloroethane	3.54	64	200349	9.622	ppbv	98
8) Dichlorotetrafluoroethane	3.16	85	1230040	9.202	ppbv	96
9) Propene	2.98	41	457945	9.849	ppbv	100
10) Heptane	8.16	43	1189182	9.965	ppbv	98
11) Trichlorofluoromethane	3.94	101	1372736	9.372	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	928454	9.676	ppbv	99
13) Ethanol	3.59	45	92908	8.925	ppbv	98
14) Bromoethene	3.72	108	396814	10.503	ppbv	98
15) Acetone	3.84	43	1006244	7.862	ppbv	98
16) 1,3-Butadiene	3.30	39	505674	9.723	ppbv	99
17) tert-Butyl alcohol	4.29	59	962180	11.778	ppbv	99
18) 1,1-Dichloroethene	4.28	96	426400	10.149	ppbv	92
19) Isopropyl Alcohol	3.96	45	759522	10.637	ppbv	100
20) Methylene Chloride	4.34	84	370593	8.009	ppbv	95
21) Allyl Chloride	4.41	41	721028	10.190	ppbv	99
22) trans-1,2-Dichloroethene	4.89	96	424926	10.140	ppbv	98
23) Vinyl Acetate	5.08	43	1553041	9.716	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1127153	9.501	ppbv	99
25) Ethyl Acetate	5.69	43	2021827	9.356	ppbv	99
26) Hexane	5.70	57	885130	9.610	ppbv	97
27) Carbon Disulfide	4.55	76	1065198	11.140	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1526696	10.952	ppbv	98
29) Chloroform	5.77	83	1400055	9.610	ppbv	99
30) Cyclohexane	7.16	84	735294	10.855	ppbv	92
31) cis-1,2-Dichloroethene	5.56	61	953746	10.203	ppbv	98
32) 1,1,1-Trichloroethane	6.54	97	1381028	9.747	ppbv	98
34) 2-Butanone	5.25	43	1349927	8.728	ppbv	98
35) Carbon Tetrachloride	7.05	117	1398579	8.485	ppbv	95
36) Benzene	6.92	78	1731209	9.535	ppbv	99
37) 1,2-Dichloroethane	6.33	62	1178370	8.709	ppbv	99
38) Trichloroethene	7.87	130	362019	4.969	ppbv	92
39) 1,2-Dichloropropane	7.65	63	718312	9.188	ppbv	99
40) 1,4-Dioxane	7.86	88	271004	9.864	ppbv	# 1
41) Tetrahydrofuran	6.07	42	801931	9.342	ppbv	96
42) Bromodichloromethane	7.83	83	1548196	9.342	ppbv	99
43) Methyl Methacrylate	8.05	69	725948	9.668	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3011655	8.962	ppbv	98
45) t-1,3-Dichloropropene	9.33	75	971505	10.619	ppbv	97
46) cis-1,3-Dichloropropene	8.74	75	1101120	10.476	ppbv	97
47) 1,1,2-Trichloroethane	9.52	97	709257	8.957	ppbv	98
48) Dibromochloromethane	10.36	129	1254547	9.658	ppbv	99
49) Bromoform	13.11	173	1119096	9.722	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2004755	9.054	ppbv	98
51) 2-Hexanone	10.18	43	1700450	9.368	ppbv #	97
52) Tetrachloroethene	11.28	164	658761	9.257	ppbv	97
53) Toluene	9.85	91	2010779	10.036	ppbv	99
54) 1,2-Dibromoethane	10.67	107	1078362	9.188	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	815259	8.501	ppbv	94
57) Chlorobenzene	12.20	112	1482921	8.541	ppbv	99
58) Ethyl Benzene	12.77	91	2716185	9.337	ppbv	97
59) m/p-Xylene	13.06	91	2331867	9.251	ppbv #	39
60) o-Xylene	13.76	91	2192978	8.737	ppbv	99
61) Styrene	13.59	104	1687544	9.550	ppbv	98
62) Isopropylbenzene	14.73	105	2917890	8.807	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1500954	7.442	ppbv	99
64) n-propylbenzene	15.63	120	756526	8.897	ppbv	98
65) tert-Butylbenzene	16.82	119	2563019	8.728	ppbv	99
66) Benzyl Chloride	17.06	91	1037801	8.948	ppbv	100
67) sec-Butylbenzene	17.37	105	3559972	8.615	ppbv	98
69) p-Isopropyltoluene	17.72	119	2958927	8.782	ppbv	98
70) n-Butylbenzene	18.62	91	3126515	8.529	ppbv	98
71) 2-Chlorotoluene	15.52	91	2283534	8.889	ppbv	100
72) 4-Ethyltoluene	15.91	105	2584458	9.160	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	2427316	8.683	ppbv	98
74) 1,2,4-Trimethylbenzene	16.83	105	2479457	8.505	ppbv	98
75) 1,3-Dichlorobenzene	17.07	146	1401249	8.006	ppbv	99
76) 1,4-Dichlorobenzene	17.21	146	1415649	8.280	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1361410	7.934	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1249308	8.801	ppbv	100
79) Naphthalene	22.30	128	2499396	11.737	ppbv	98
80) Naphthalene,2-methyl-	25.03	142	1247518	20.267	ppbv	96
81) 1,2,4-Trichlorobenzene	22.02	180	1439695	10.351	ppbv	99

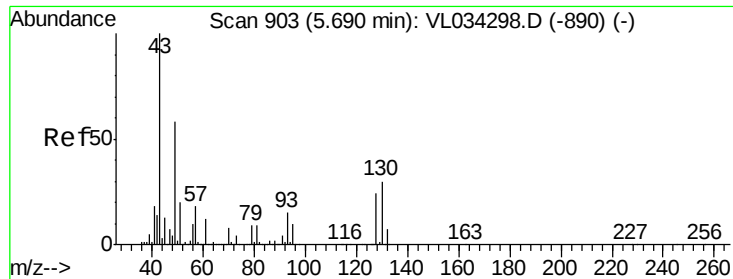
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Abundance

TIC: VL034361.D

Time-->

Chlorodifluoromethane, T
Chlorotrifluoromethane, T
1,3-Butadiene, I
Bromochloromethane, T
Isopropyl Alcohol, T
Trichlorofluoromethane, T
Bromodichloromethane, T
Methyl acetone, T
Carbon Disulfide, T
trans-1,2-Dichloroethene, T
Diethyl Ether, T
2-Butanol, I
cis-1,2-Dichloroethene, T
Chloroform, T
Tetrahydrofuran, T
1,2-Dichloroethane, T
Benzene, T
1,1,1-Trichloroethane, T
Cyclohexane, T
1,1,1-Trichlorobenzene, I
1,2-Dichloropropane, T
1,2-Dichloroethane, T
Methyl Methacrylate, T
Hexachlorocyclopentadiene, T
cis-1,3-Dichloropentane, T
trans-1,3-Dichloropentane, T
1,1,2-Trichloroethane, T
Toluene, T
2-Hexanone, T
Dibromochloromethane, T
1,2-Dibromoethane, T
Tetrachloroethene, T
Chlorobenzene-d5, I
Chlorobenzene-d1, I
Ethyl Benzene, T
m/p-Xylene, T
Styrene, T
1-Bromo-4-Fluorobenzene, S
Isopropylbenzene
2-Chlorotoluene, I
4-Ethyltoluene, T
1,3,5-Trimethylbenzene, T
1,4-Dichlorobenzene, T
sec-Butylbenzene
p-Isopropyltoluene
1,2-Dichlorobenzene, T
n-Butylbenzene
1,2,4-Trichlorobenzene, T
Naphthalene, T
Hexachloro-1,3-Butadiene, T
Naphthalene, 2-methyl-, T



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

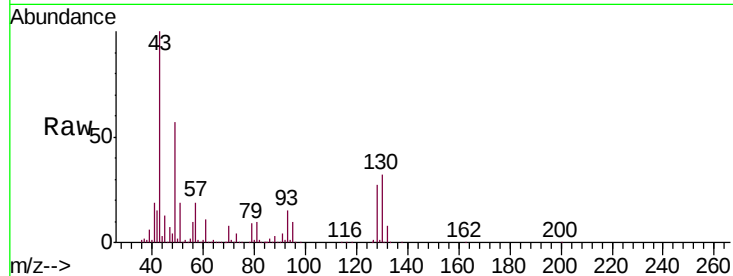
Tgt Ion: 49 Resp: 894865

Ion Ratio Lower Upper

49 100

128 44.1 20.6 61.8

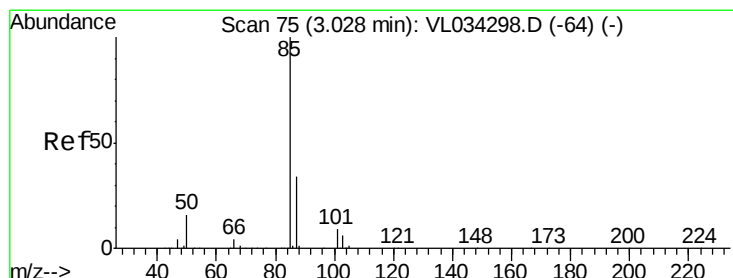
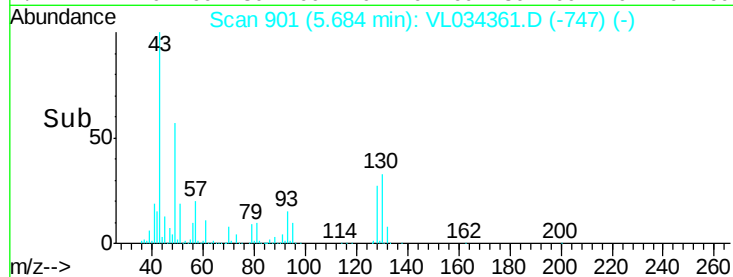
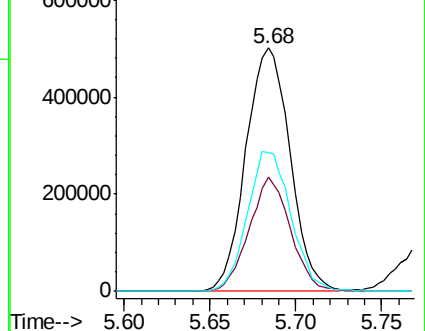
130 56.9 26.2 78.5



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: 6.960 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034361.D

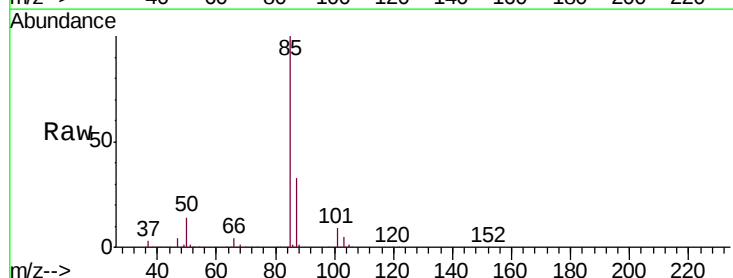
Acq: 25 Oct 2019 12:29

Tgt Ion: 85 Resp: 1073748

Ion Ratio Lower Upper

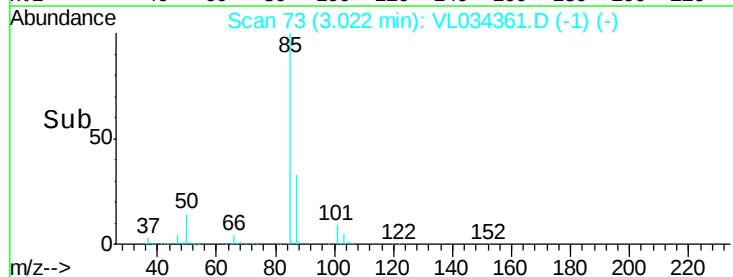
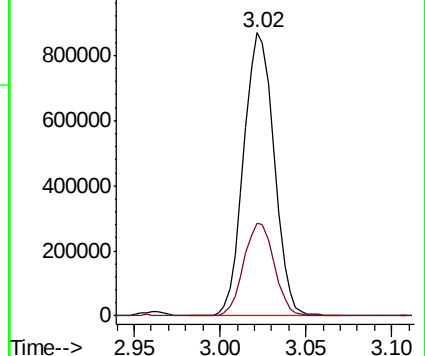
85 100

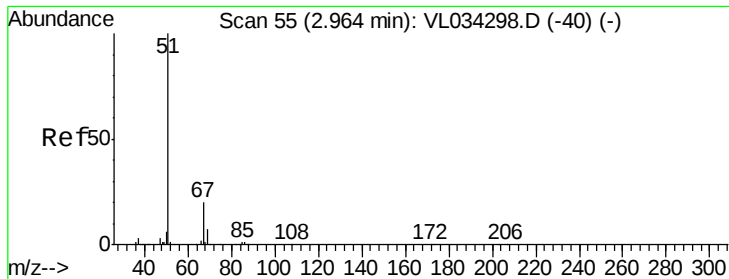
87 32.8 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.184 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

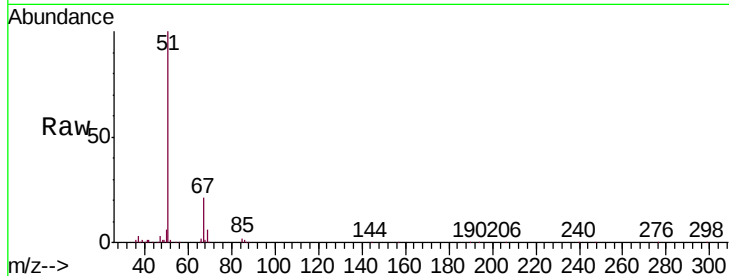
VL1025ABS01

Tgt Ion: 51 Resp: 963316

Ion Ratio Lower Upper

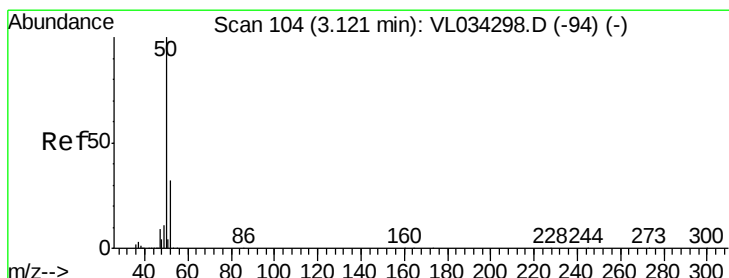
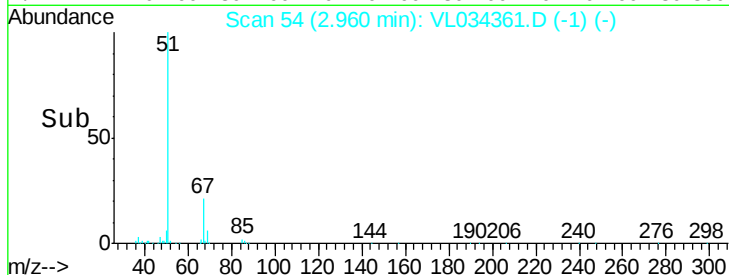
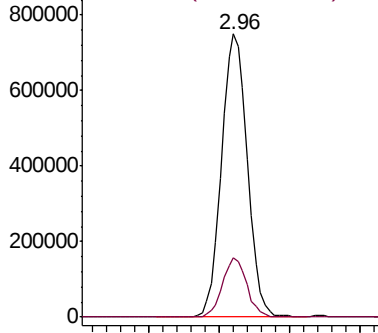
51 100

67 19.8 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.342 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034361.D

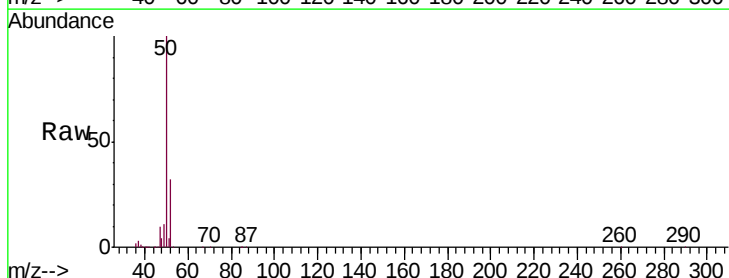
Acq: 25 Oct 2019 12:29

Tgt Ion: 50 Resp: 579617

Ion Ratio Lower Upper

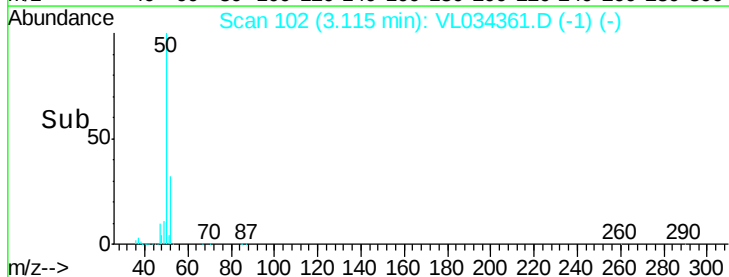
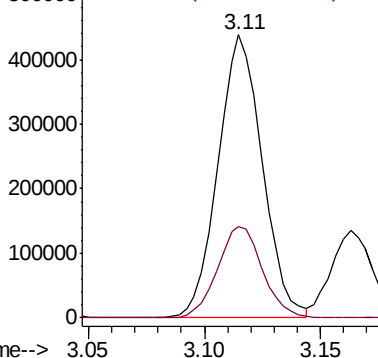
50 100

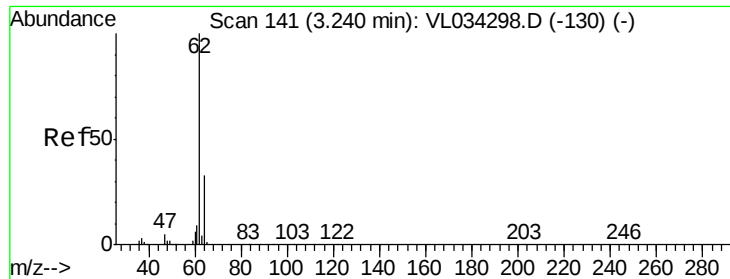
52 32.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.264 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

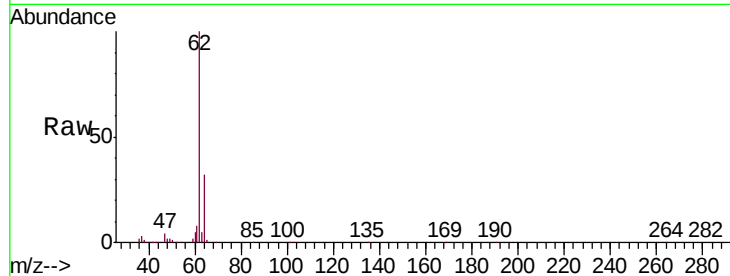
VL1025ABS01

Tgt Ion: 62 Resp: 548068

Ion Ratio Lower Upper

62 100

64 32.0 26.0 39.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.23

400000

300000

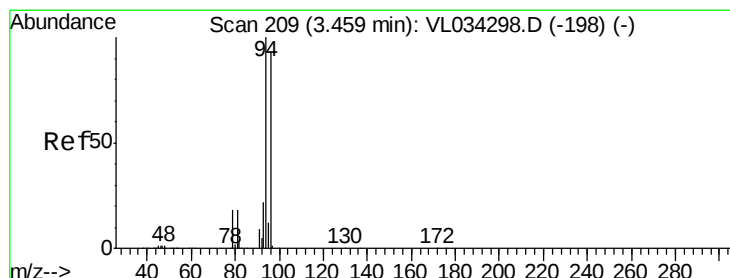
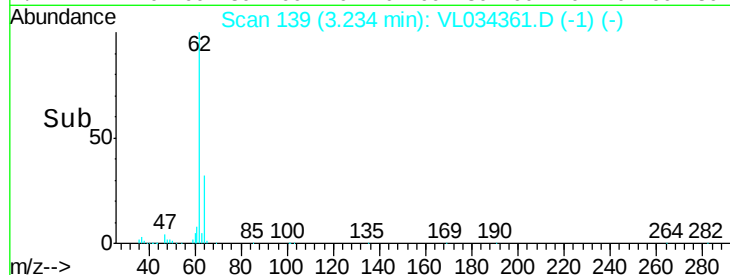
200000

100000

0

Time-->

3.20 3.25 3.30



#6

Bromomethane

Concen: 10.101 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034361.D

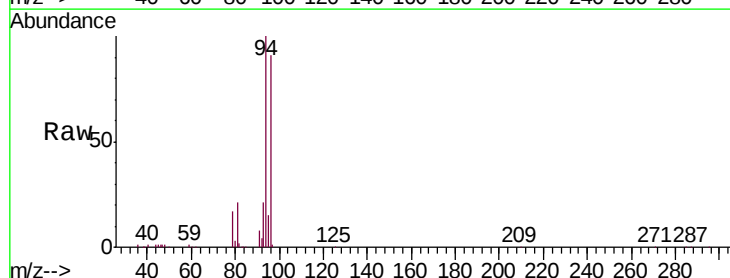
Acq: 25 Oct 2019 12:29

Tgt Ion: 94 Resp: 292595

Ion Ratio Lower Upper

94 100

96 90.7 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.46

200000

150000

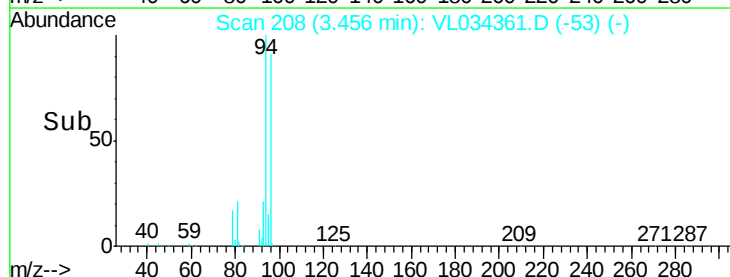
100000

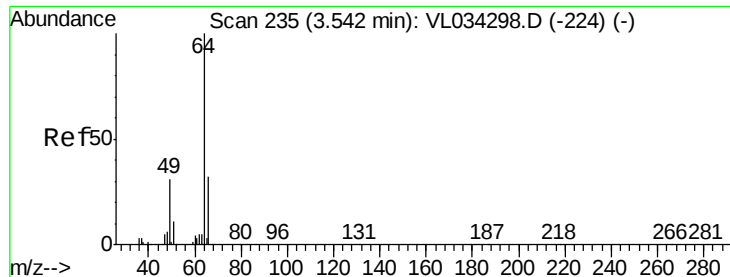
50000

0

Time-->

3.40 3.45 3.50





#7

Chloroethane

Concen: 9.622 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

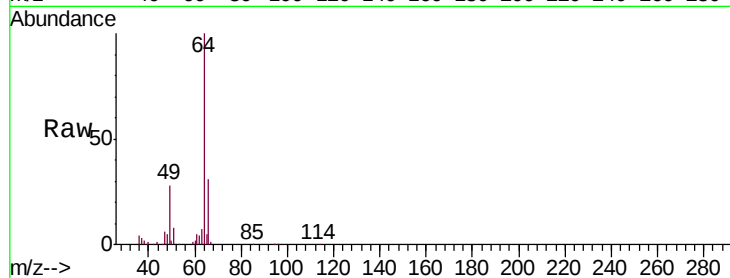
VL1025ABS01

Tgt Ion: 64 Resp: 200349

Ion Ratio Lower Upper

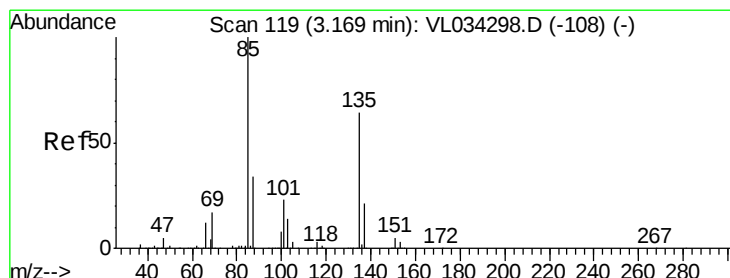
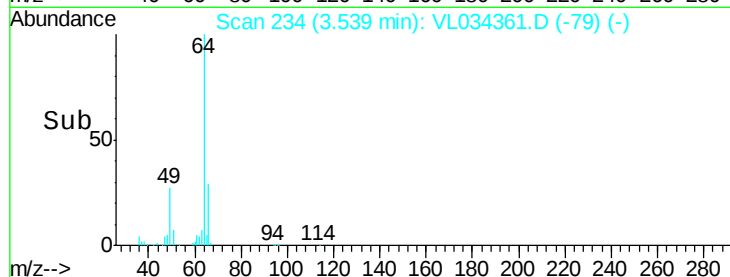
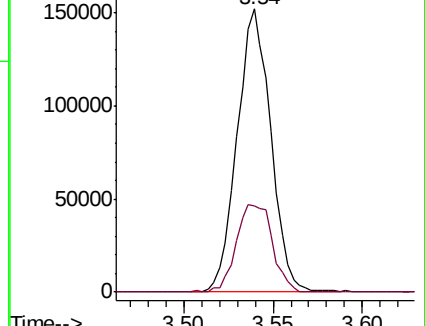
64 100

66 30.6 25.4 38.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.202 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL034361.D

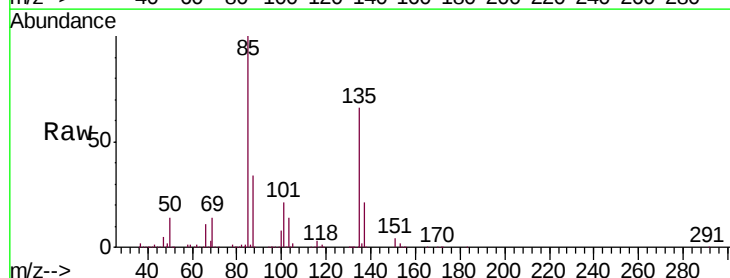
Acq: 25 Oct 2019 12:29

Tgt Ion: 85 Resp: 1230040

Ion Ratio Lower Upper

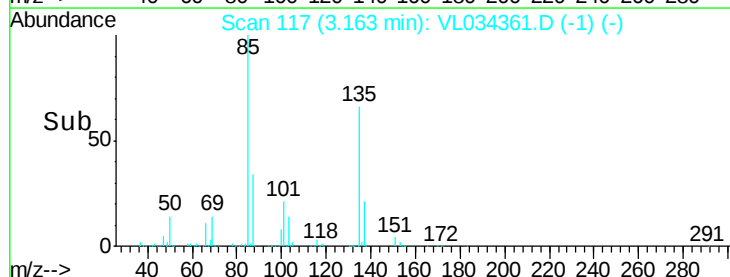
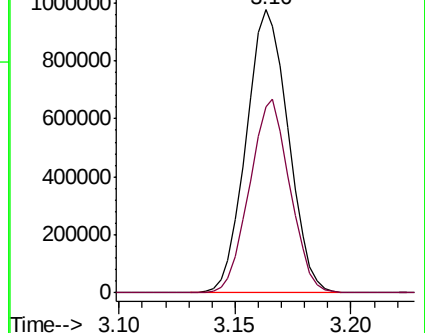
85 100

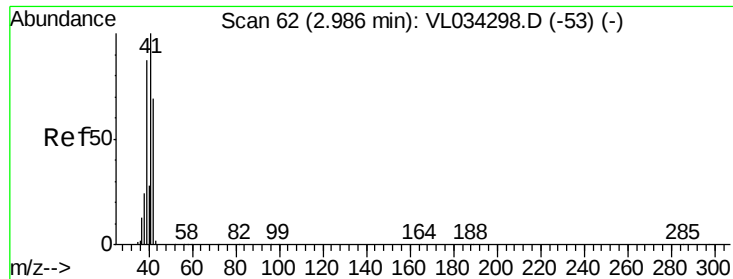
135 65.9 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.849 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

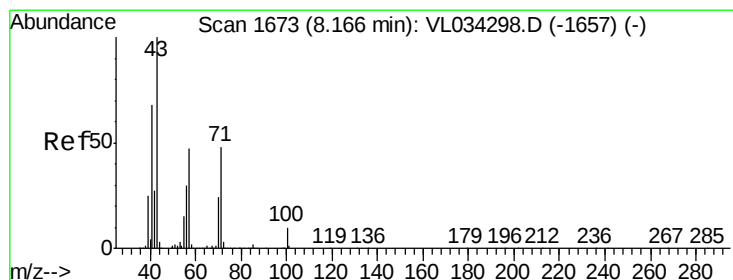
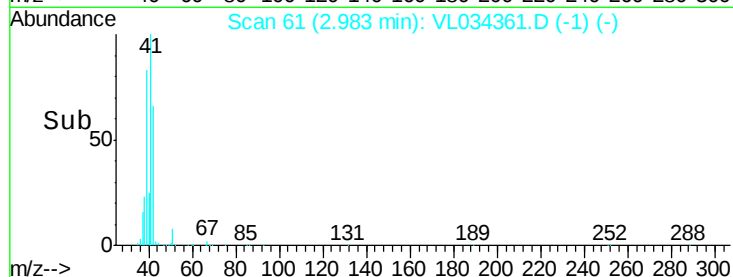
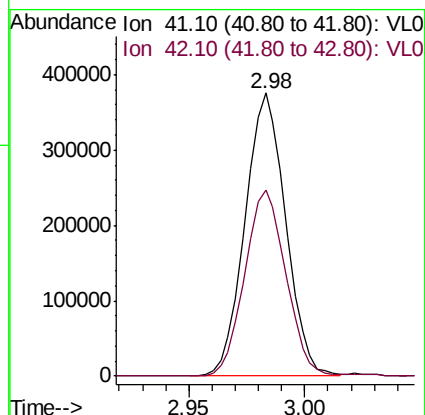
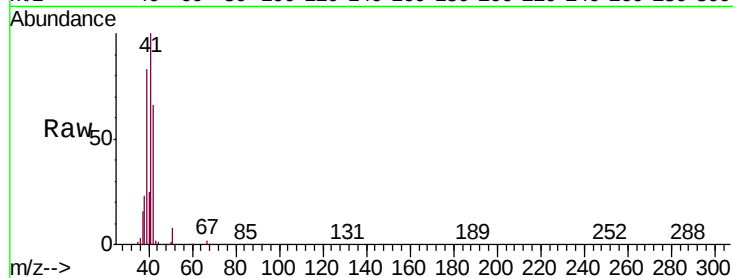
VL1025ABS01

Tgt Ion: 41 Resp: 457945

Ion Ratio Lower Upper

41 100

42 67.5 53.9 80.9



#10

Heptane

Concen: 9.965 ppbv

RT: 8.16 min Scan# 1671

Delta R.T. -0.01 min

Lab File: VL034361.D

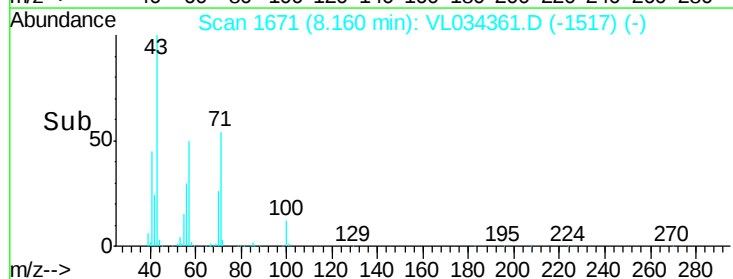
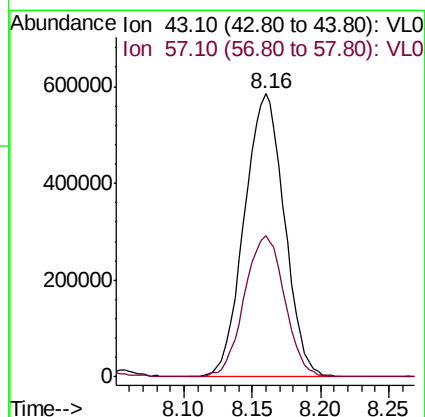
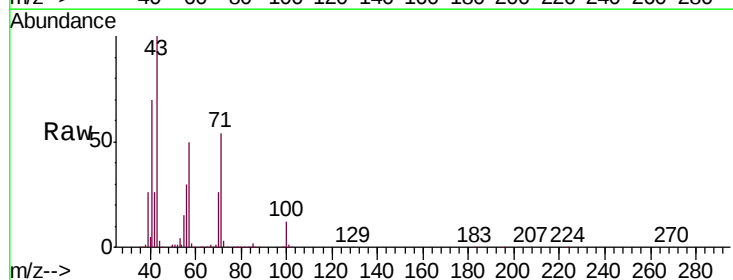
Acq: 25 Oct 2019 12:29

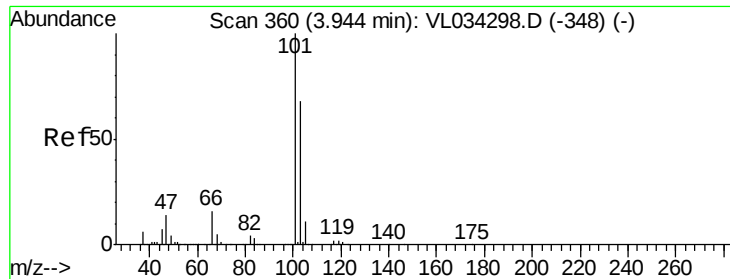
Tgt Ion: 43 Resp: 1189182

Ion Ratio Lower Upper

43 100

57 50.5 39.5 59.3

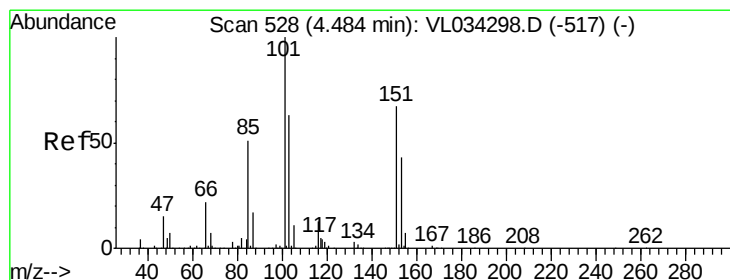
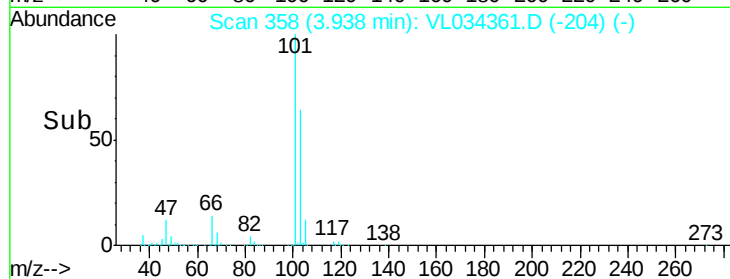
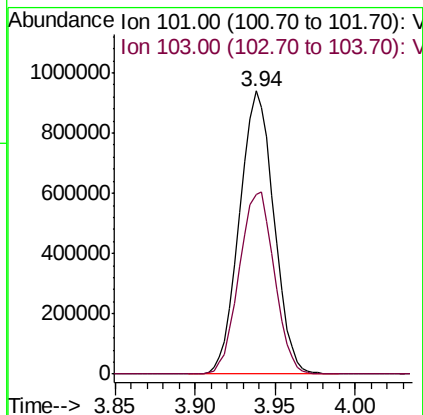
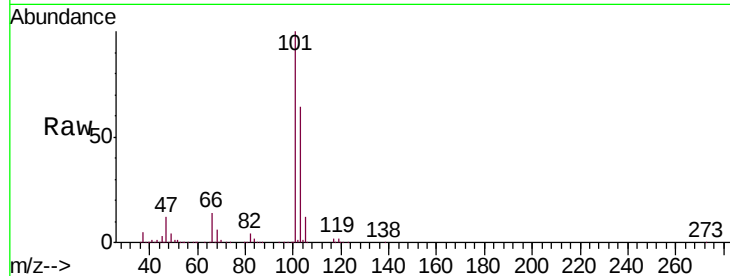




#11
 Trichlorofluoromethane
 Concen: 9.372 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

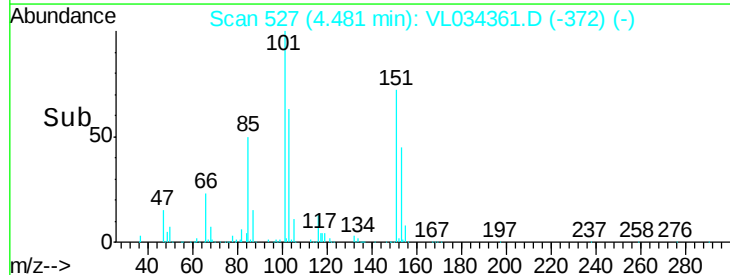
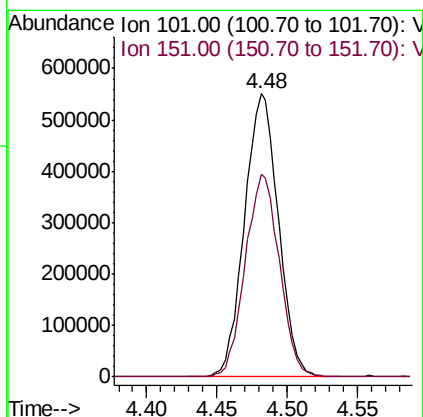
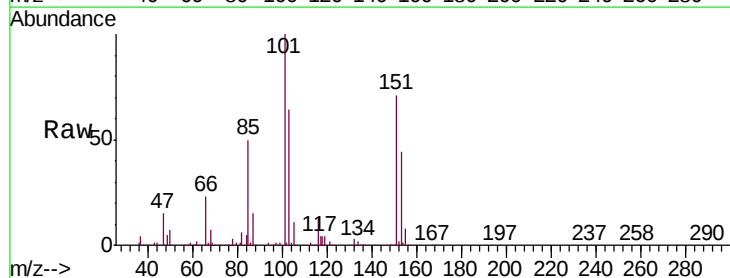
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

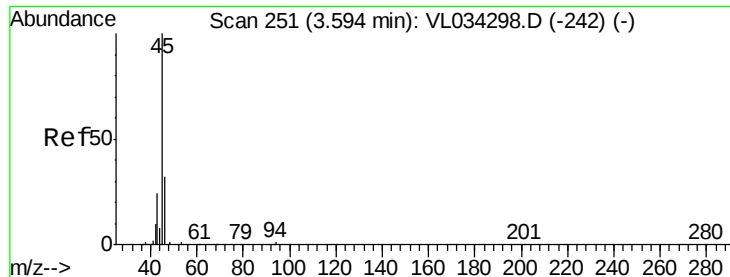
Tgt Ion:101 Resp: 1372736
 Ion Ratio Lower Upper
 101 100
 103 63.7 54.5 81.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.676 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Tgt Ion:101 Resp: 928454
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.4 86.2





#13

Ethanol

Concen: 8.925 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.00 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

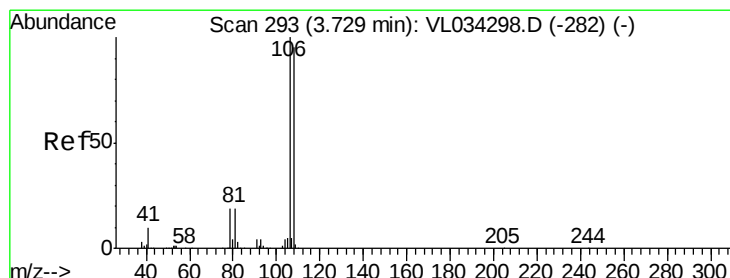
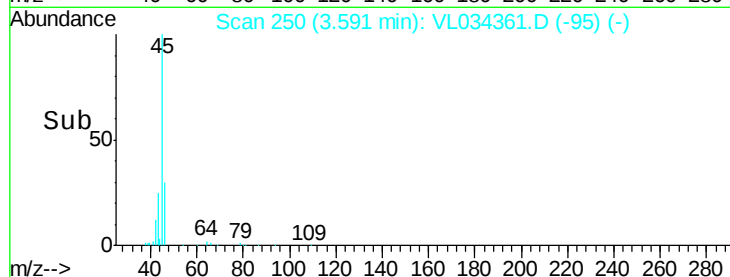
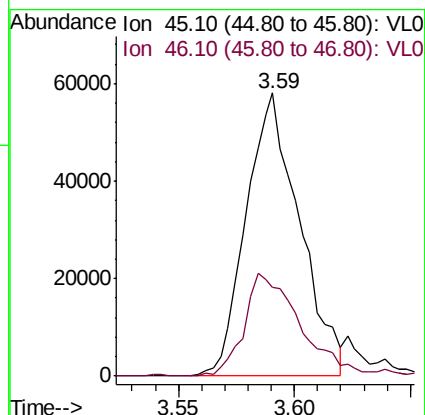
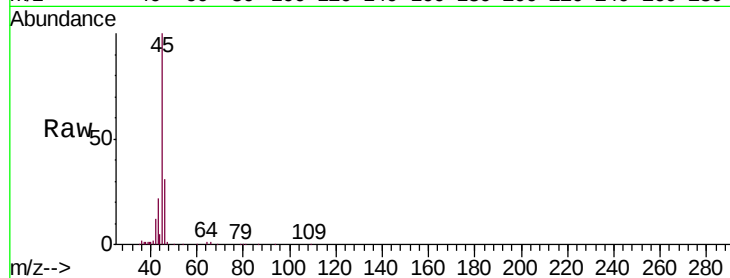
VL1025ABS01

Tgt Ion: 45 Resp: 92908

Ion Ratio Lower Upper

45 100

46 40.5 15.8 63.2



#14

Bromoethene

Concen: 10.503 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

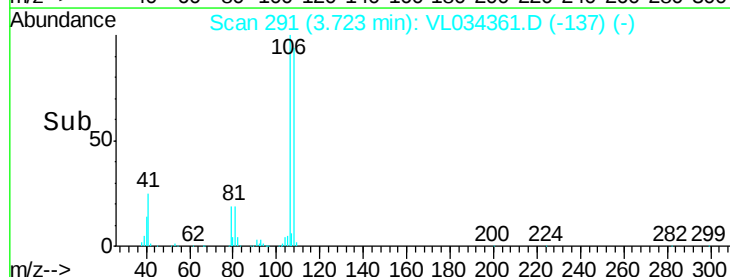
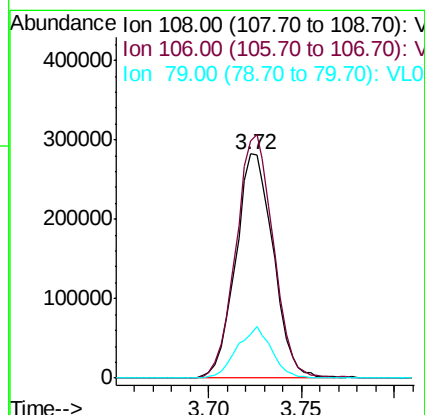
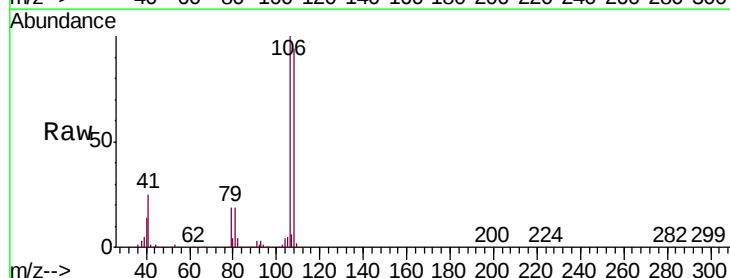
Tgt Ion: 108 Resp: 396814

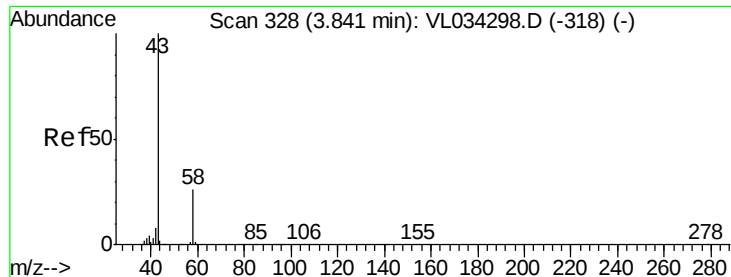
Ion Ratio Lower Upper

108 100

106 108.1 84.8 127.2

79 21.3 17.0 25.4





#15

Acetone

Concen: 7.862 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

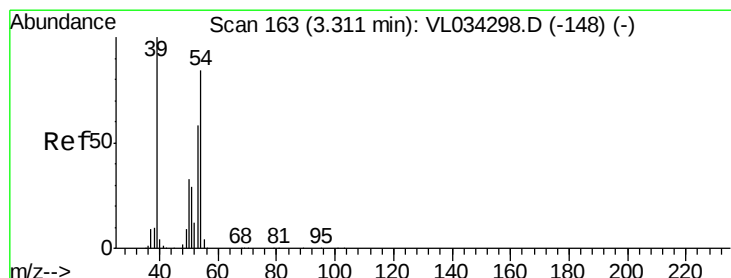
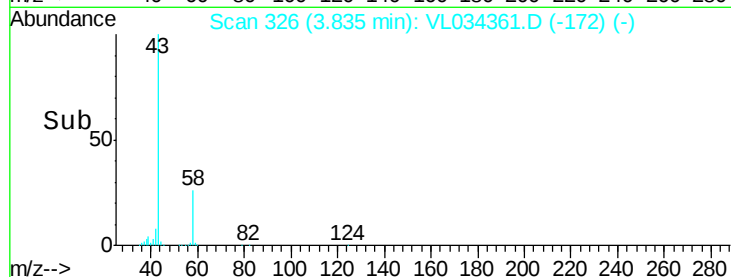
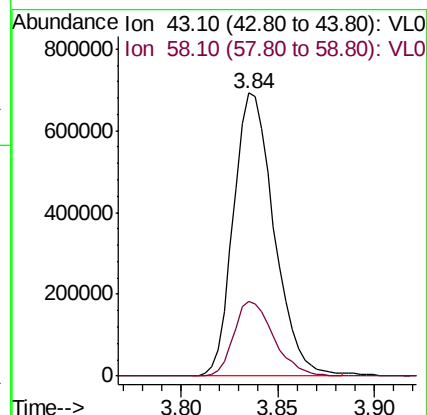
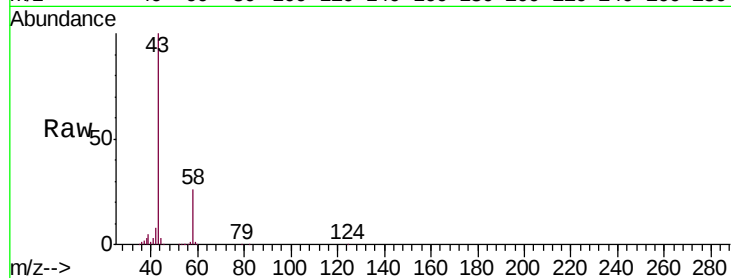
VL1025ABS01

Tgt Ion: 43 Resp: 1006244

Ion Ratio Lower Upper

43 100

58 26.3 20.4 30.6



#16

1,3-Butadiene

Concen: 9.723 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.01 min

Lab File: VL034361.D

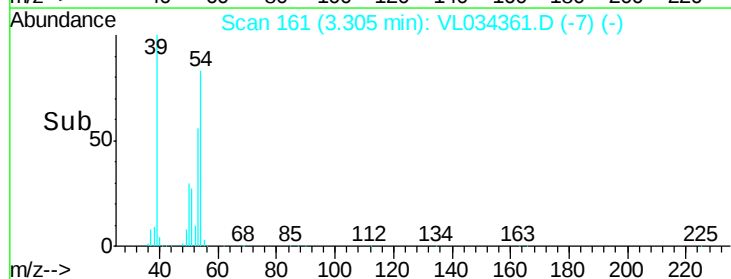
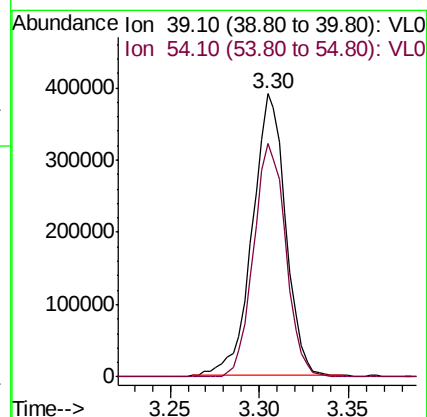
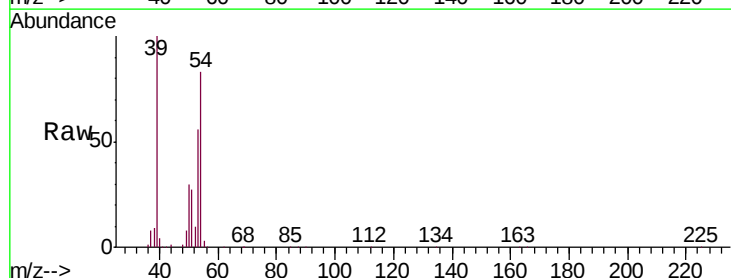
Acq: 25 Oct 2019 12:29

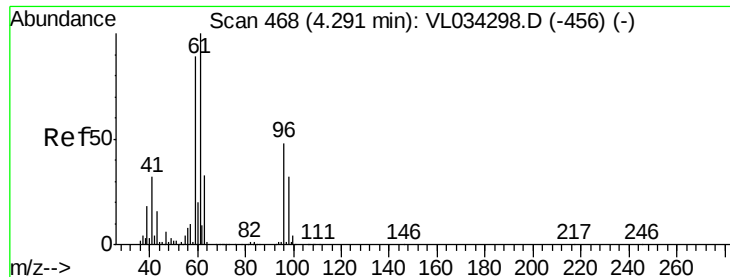
Tgt Ion: 39 Resp: 505674

Ion Ratio Lower Upper

39 100

54 81.0 63.9 95.9





#17

tert-Butyl alcohol

Concen: 11.778 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

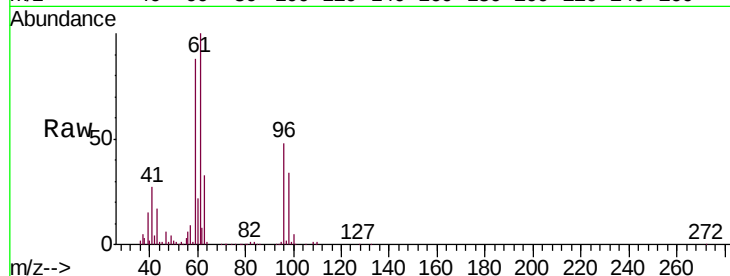
VL1025ABS01

Tgt Ion: 59 Resp: 962180

Ion Ratio Lower Upper

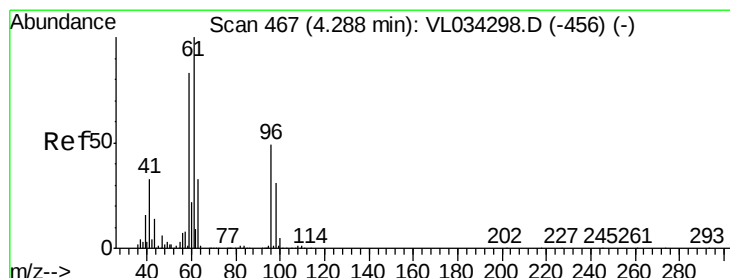
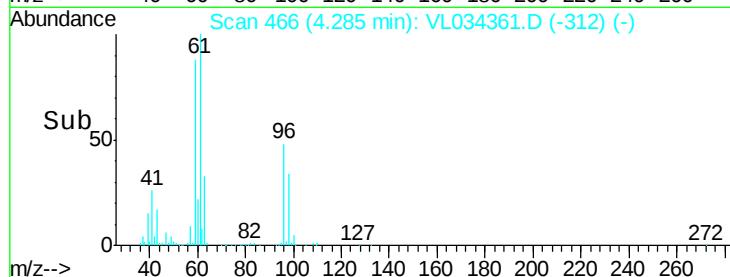
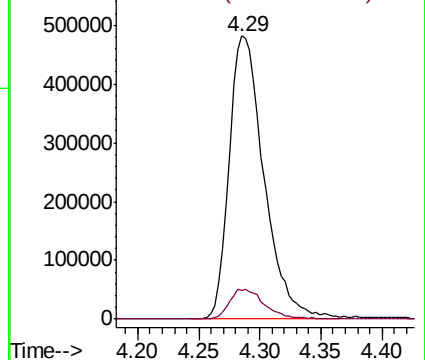
59 100

57 10.8 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 10.149 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

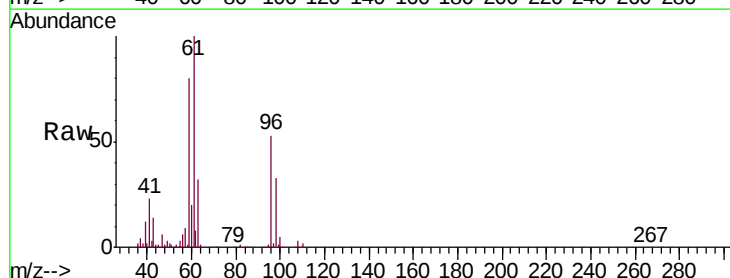
Tgt Ion: 96 Resp: 426400

Ion Ratio Lower Upper

96 100

61 190.4 164.5 246.7

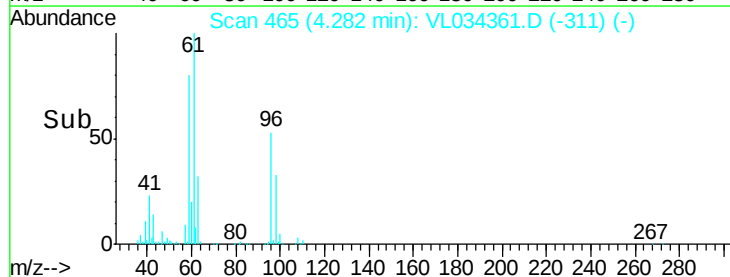
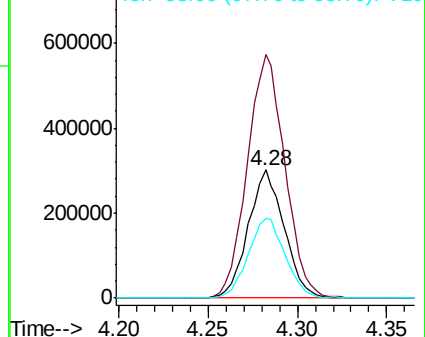
98 62.6 51.7 77.5

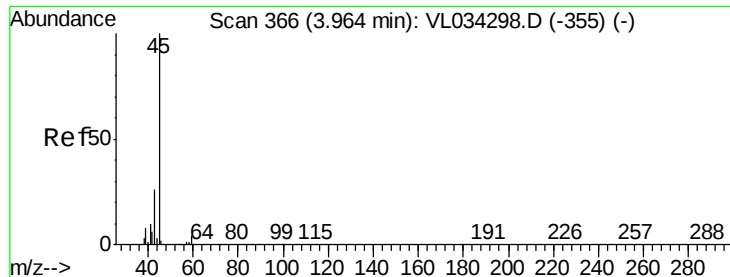


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 10.637 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

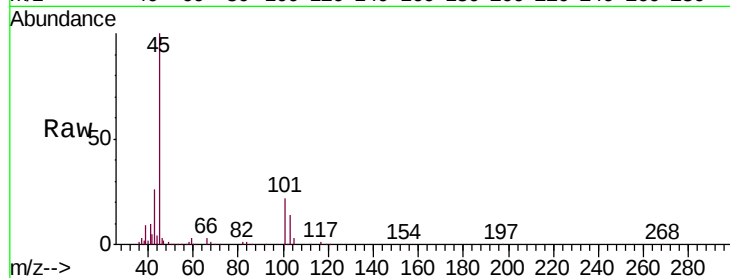
VL1025ABS01

Tgt Ion: 45 Resp: 759522

Ion Ratio Lower Upper

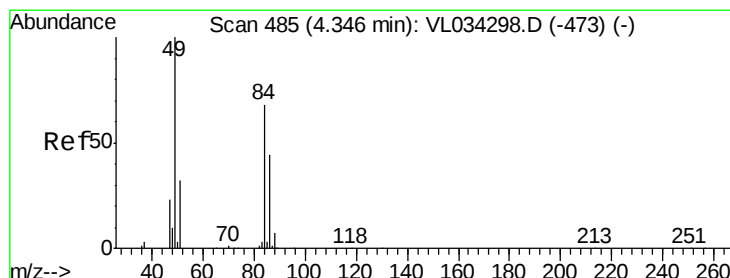
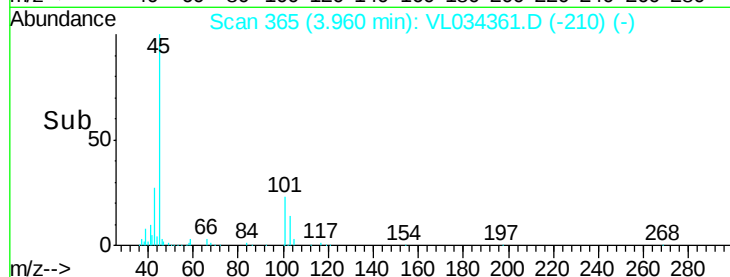
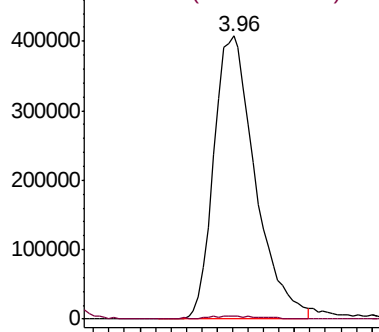
45 100

58 1.7 1.4 2.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.009 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Tgt Ion: 84 Resp: 370593

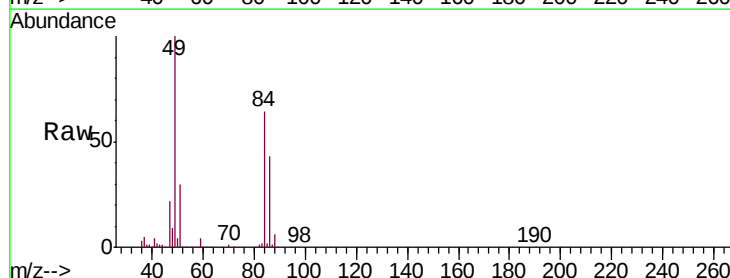
Ion Ratio Lower Upper

84 100

49 155.7 118.5 177.7

51 46.7 38.8 58.2

86 67.7 51.7 77.5

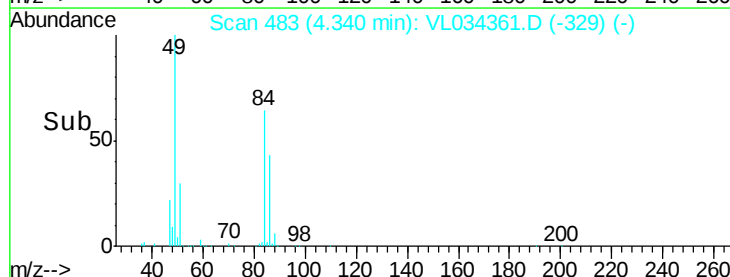
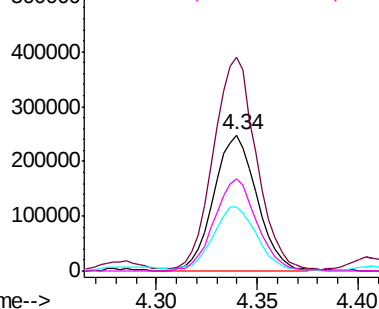


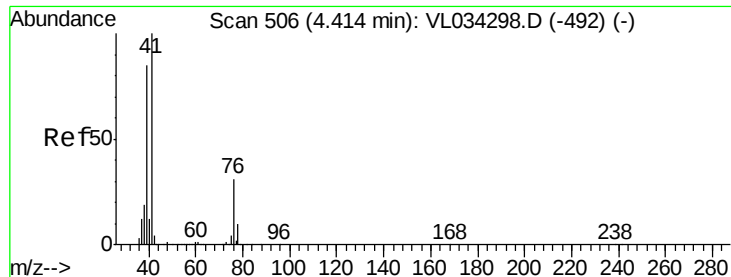
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#21

Allyl Chloride

Concen: 10.190 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

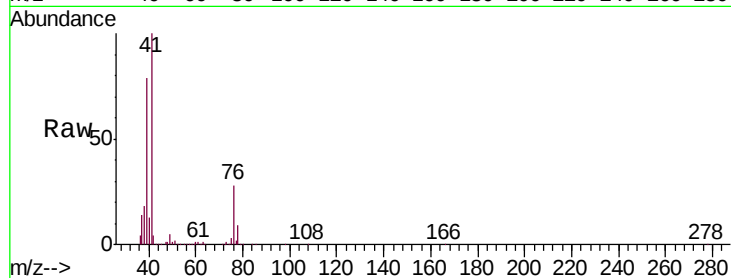
Tgt Ion: 41 Resp: 721028

Ion Ratio Lower Upper

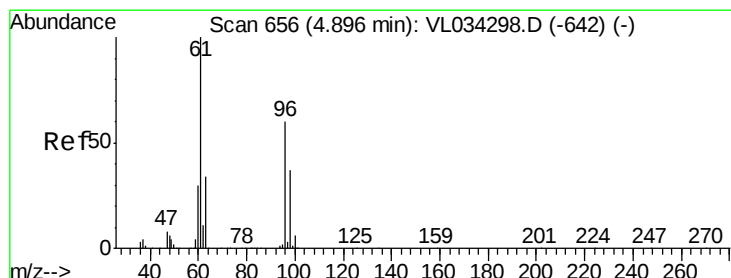
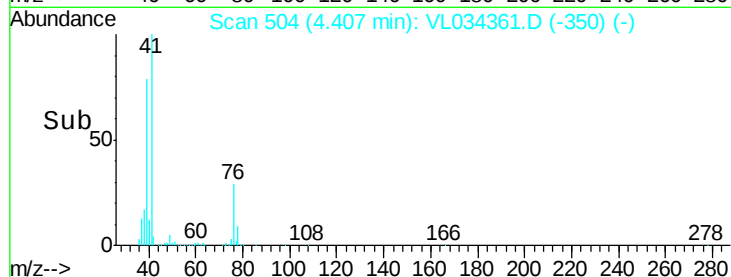
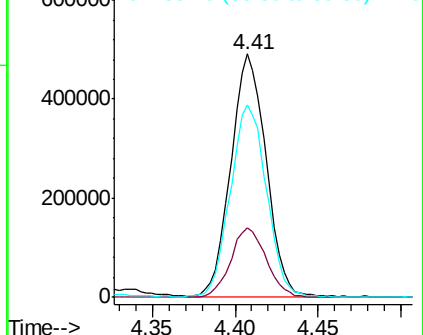
41 100

76 29.0 22.8 34.2

39 81.5 66.0 99.0



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: 10.140 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

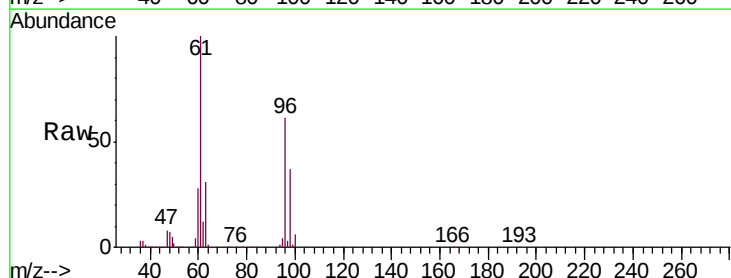
Tgt Ion: 96 Resp: 424926

Ion Ratio Lower Upper

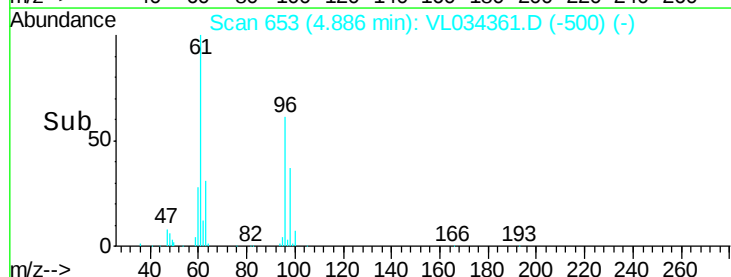
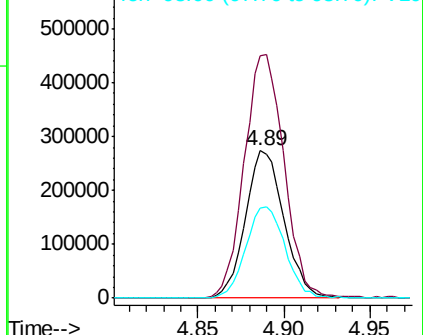
96 100

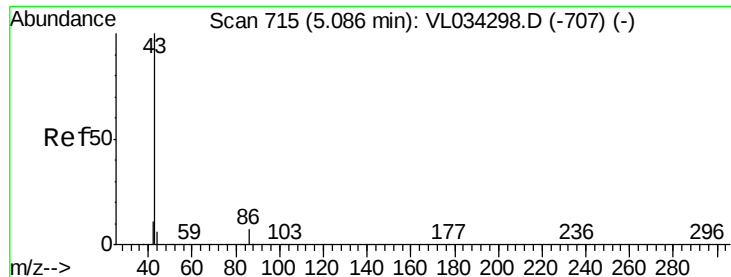
61 164.5 133.8 200.6

98 60.8 49.4 74.0



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





#23

Vinyl Acetate

Concen: 9.716 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

Tgt Ion: 43 Resp: 1553041

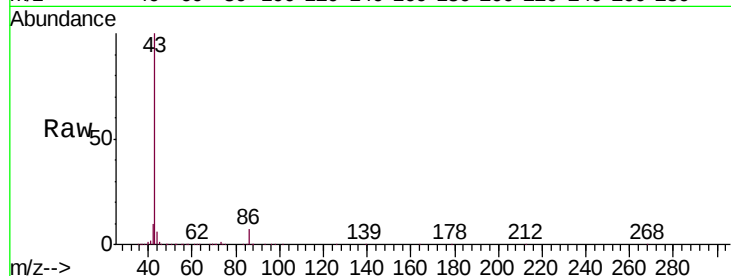
Ion Ratio Lower Upper

43 100

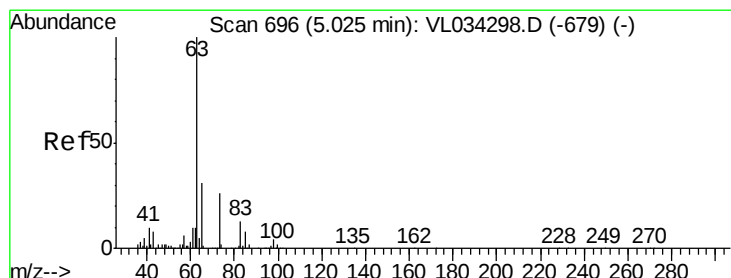
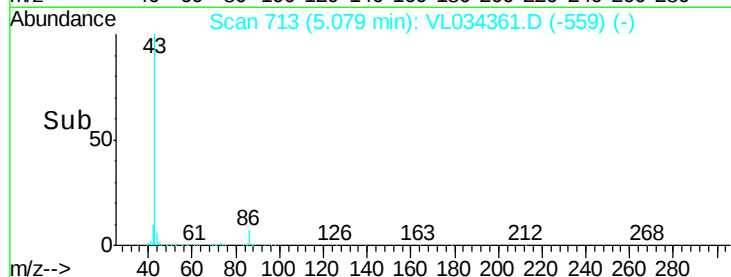
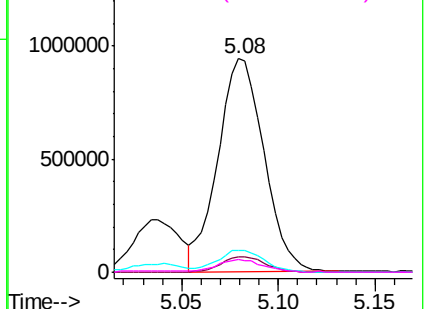
86 6.9 5.0 7.4

42 10.0 8.6 13.0

44 5.9 4.8 7.2



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: 9.501 ppbv

RT: 5.02 min Scan# 693

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

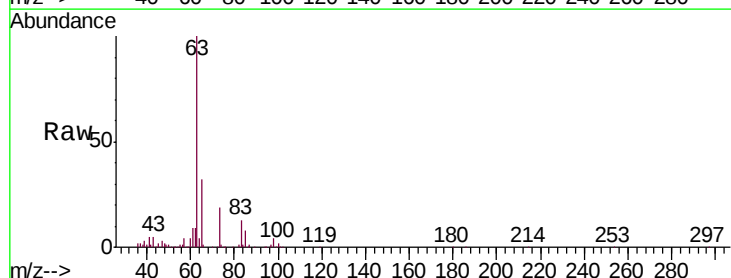
Tgt Ion: 63 Resp: 1127153

Ion Ratio Lower Upper

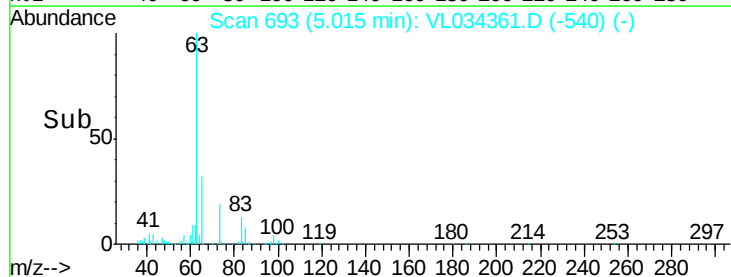
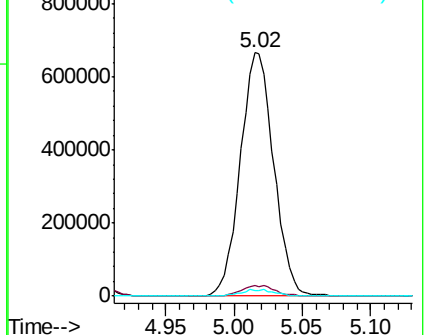
63 100

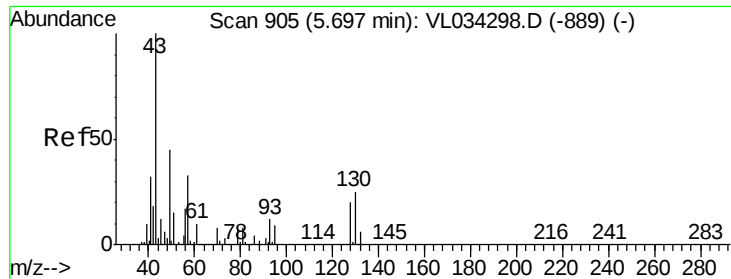
98 4.3 2.0 6.0

100 2.4 1.1 3.5



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



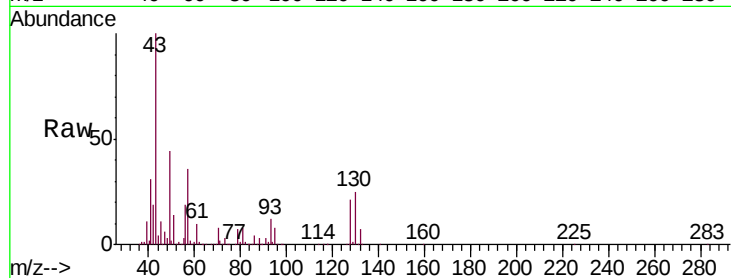


#25
Ethyl Acetate
Concen: 9.356 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

Tgt Ion: 43 Resp: 2021827

Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	9.2	7.7	11.5
70	7.2	5.4	8.2



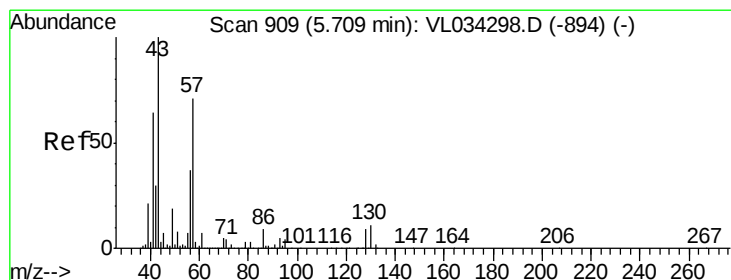
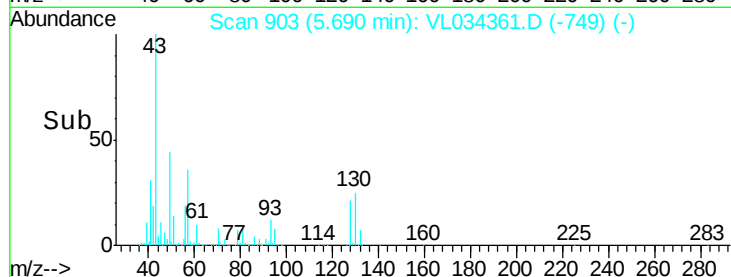
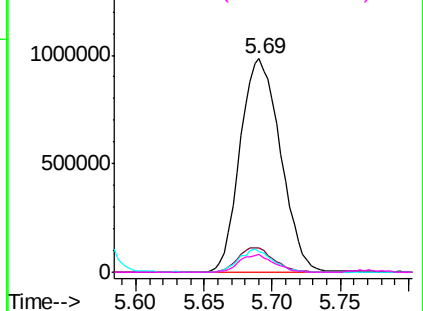
Abundance

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

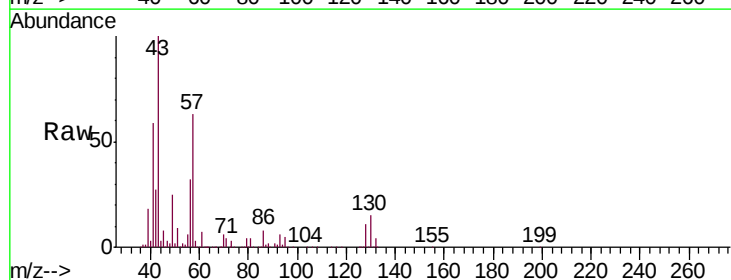
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.610 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion: 57 Resp: 885130

Ion	Ratio	Lower	Upper
57	100		
41	94.0	76.5	114.7
43	230.2	188.5	282.7
56	52.4	42.8	64.2



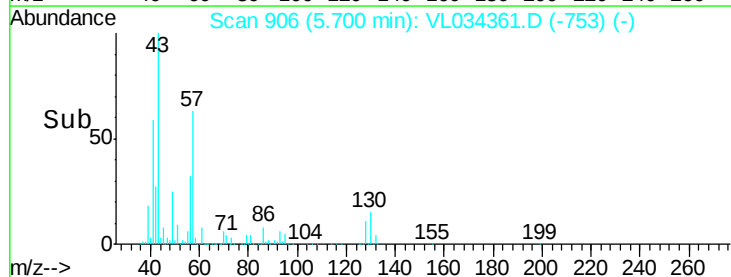
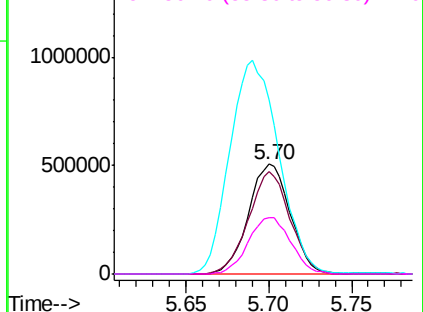
Abundance

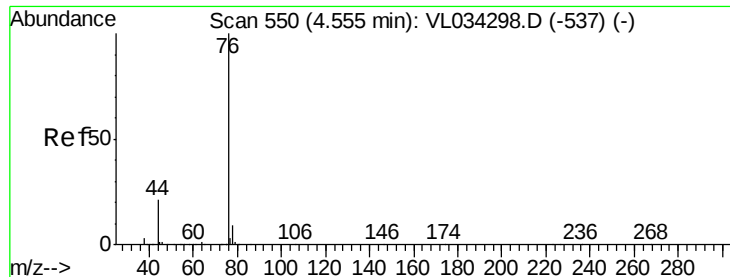
Ion 57.10 (56.80 to 57.80): VL0

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: 11.140 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

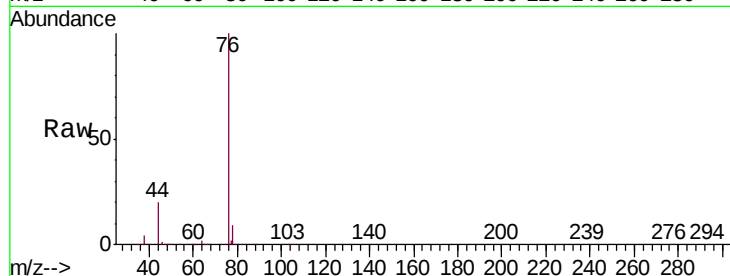
Tgt Ion: 76 Resp: 1065198

Ion Ratio Lower Upper

76 100

44 20.8 17.3 25.9

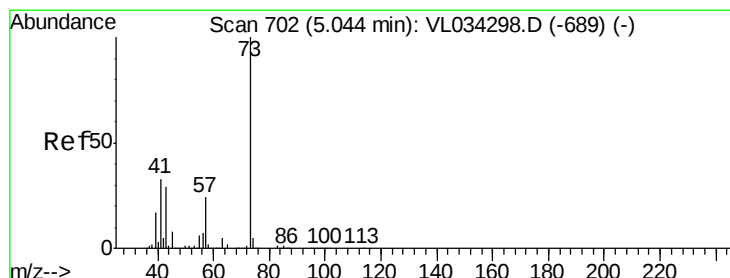
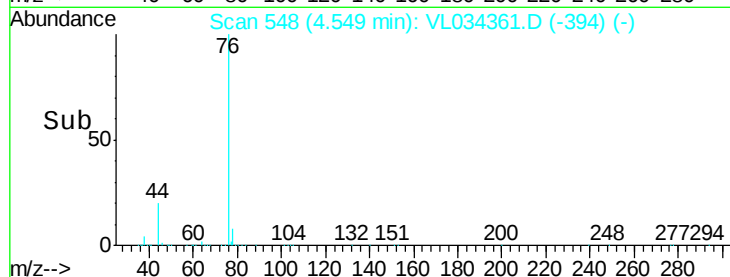
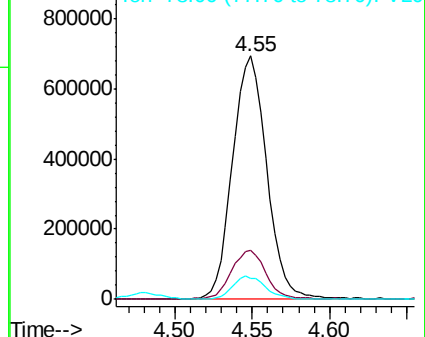
78 9.4 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.952 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.01 min

Lab File: VL034361.D

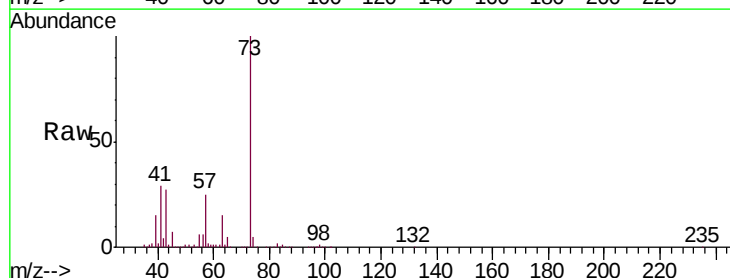
Acq: 25 Oct 2019 12:29

Tgt Ion: 73 Resp: 1526696

Ion Ratio Lower Upper

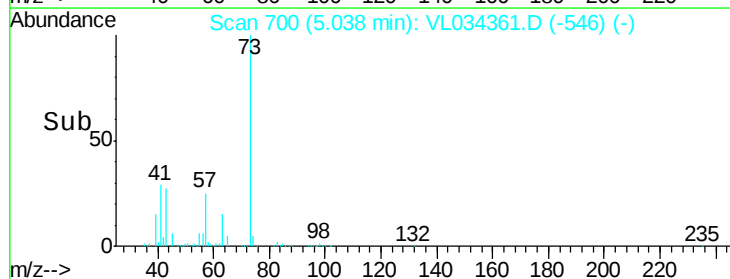
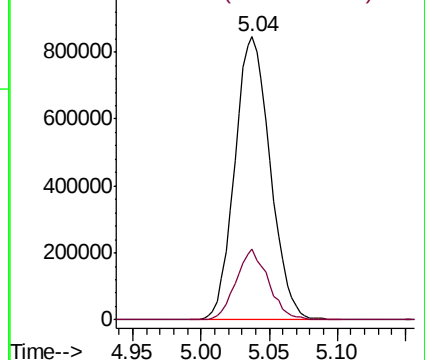
73 100

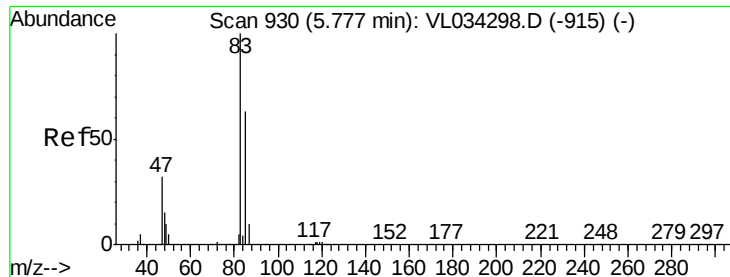
57 23.1 19.2 28.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.610 ppbv

RT: 5.77 min Scan# 927

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

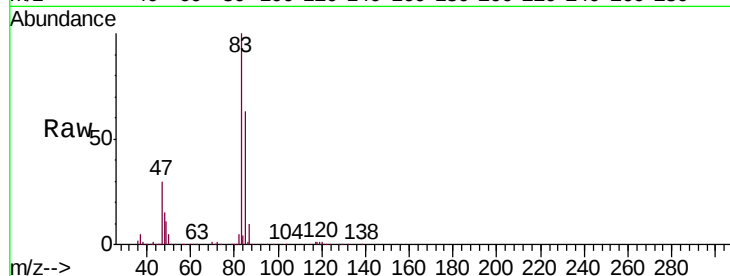
VL1025ABS01

Tgt Ion: 83 Resp: 1400055

Ion Ratio Lower Upper

83 100

85 62.4 50.5 75.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.77

800000

600000

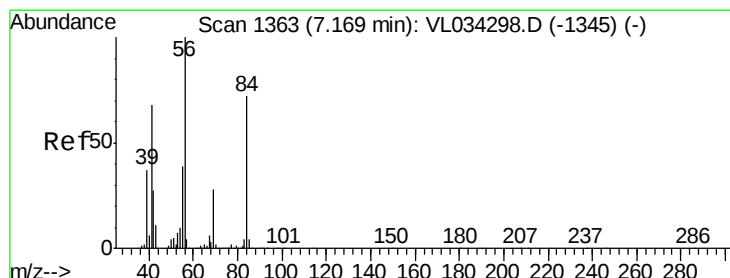
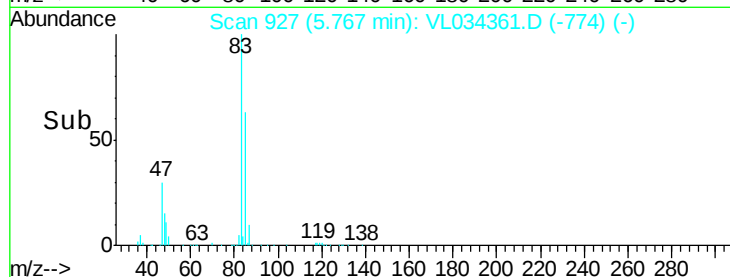
400000

200000

0

Time-->

5.70 5.75 5.80 5.85



#30

Cyclohexane

Concen: 10.855 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

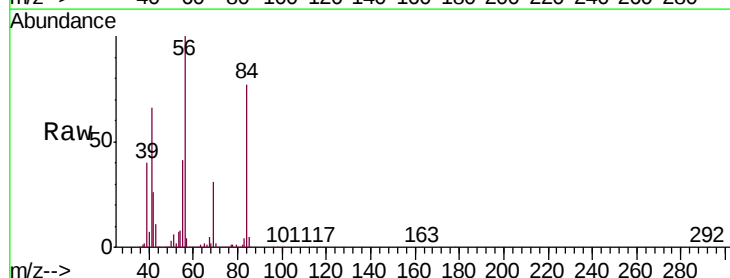
Tgt Ion: 84 Resp: 735294

Ion Ratio Lower Upper

84 100

56 140.0 119.4 179.0

41 89.7 78.7 118.1



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

600000

500000

400000

300000

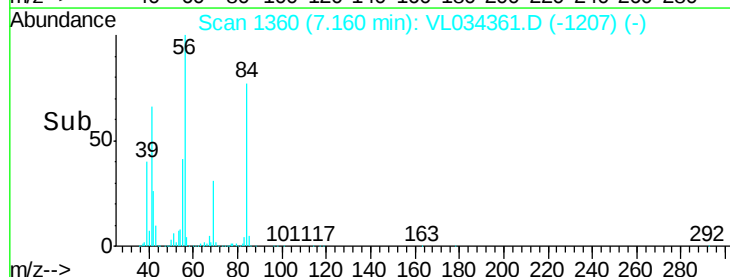
200000

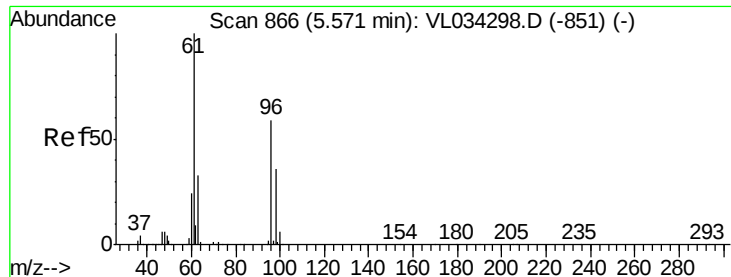
100000

0

Time-->

7.10 7.15 7.20 7.25



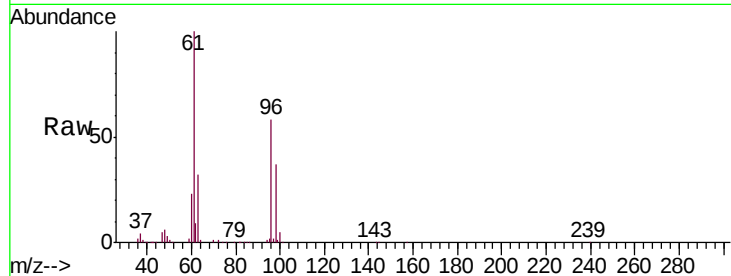


#31

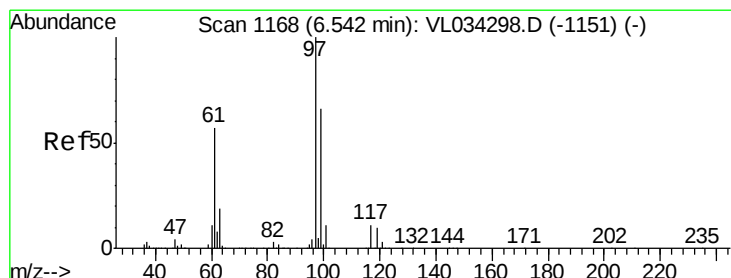
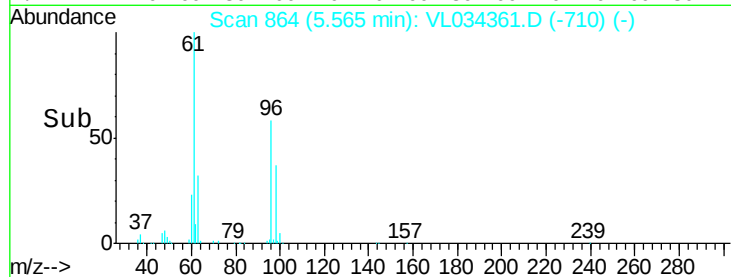
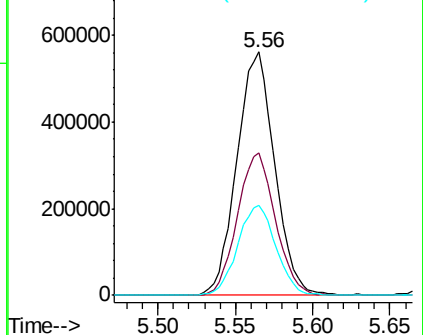
cis-1,2-Dichloroethene
 Concen: 10.203 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

Tgt Ion: 61 Resp: 953746
 Ion Ratio Lower Upper
 61 100
 96 58.3 47.5 71.3
 98 37.0 28.8 43.2



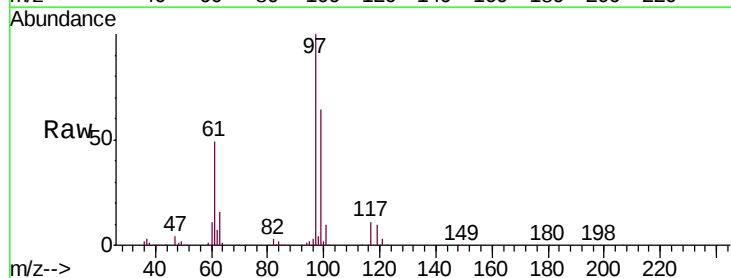
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



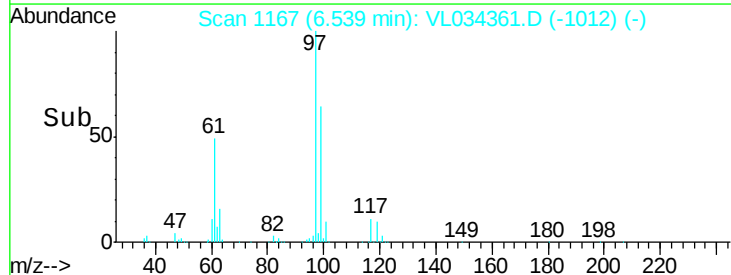
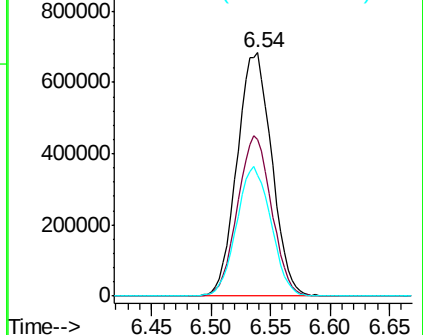
#32

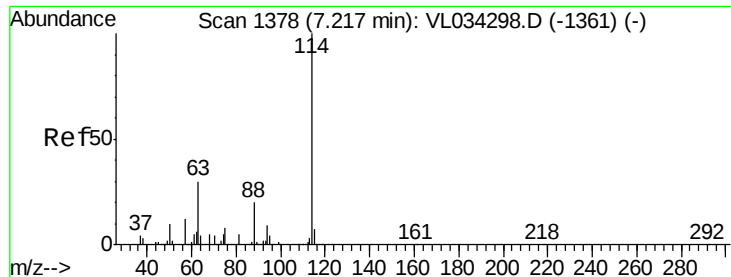
1,1,1-Trichloroethane
 Concen: 9.747 ppbv
 RT: 6.54 min Scan# 1167
 Delta R.T. -0.00 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Tgt Ion: 97 Resp: 1381028
 Ion Ratio Lower Upper
 97 100
 99 64.6 52.6 78.8
 61 52.9 44.5 66.7



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

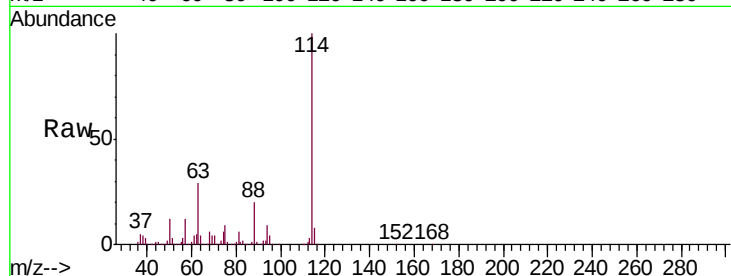




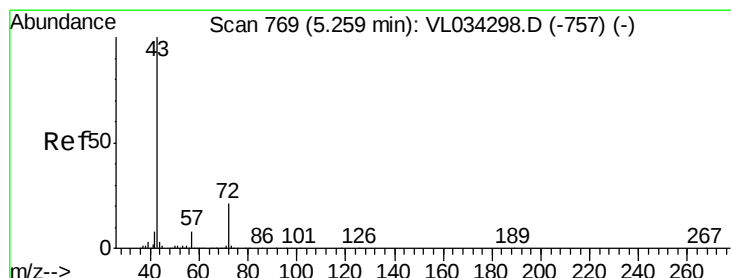
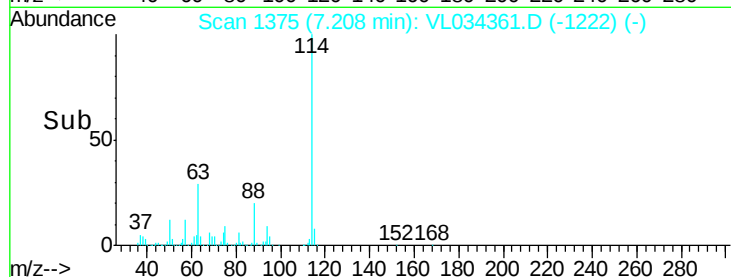
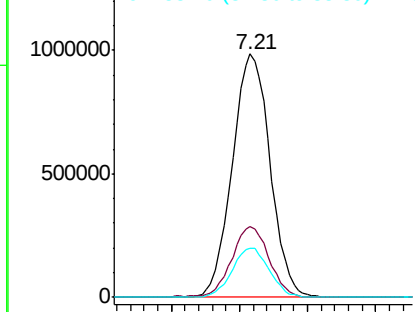
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

Tgt Ion: 114 Resp: 1892272
 Ion Ratio Lower Upper
 114 100
 63 29.2 25.2 37.8
 88 20.0 16.0 24.0

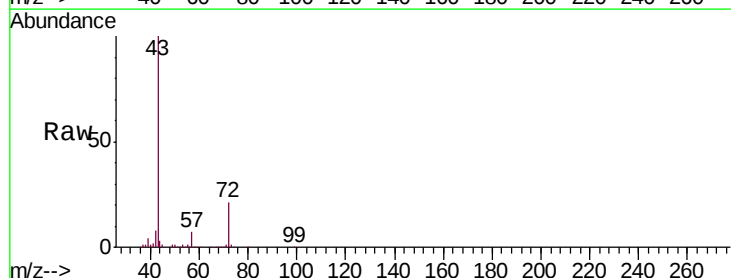


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

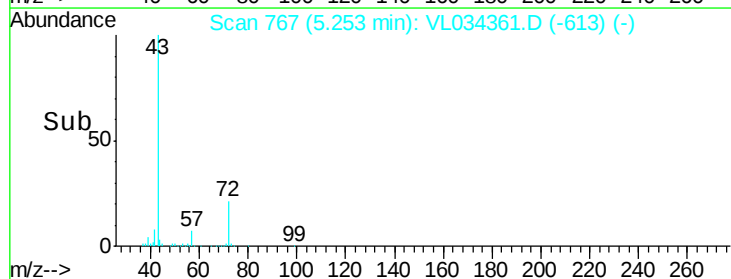
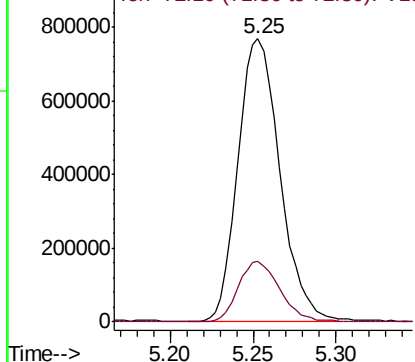


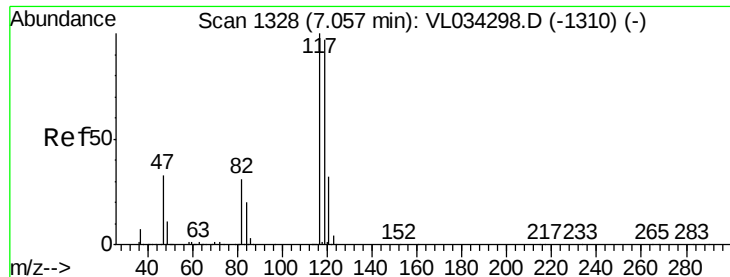
#34
 2-Butanone
 Concen: 8.728 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Tgt Ion: 43 Resp: 1349927
 Ion Ratio Lower Upper
 43 100
 72 21.1 16.3 24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.485 ppbv

RT: 7.05 min Scan# 1325

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

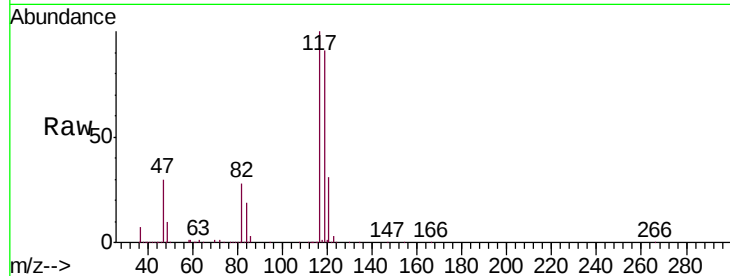
Tgt Ion:117 Resp: 1398579

Ion Ratio Lower Upper

117 100

119 90.7 77.3 115.9

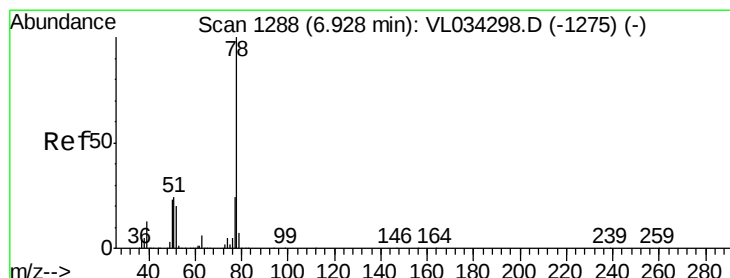
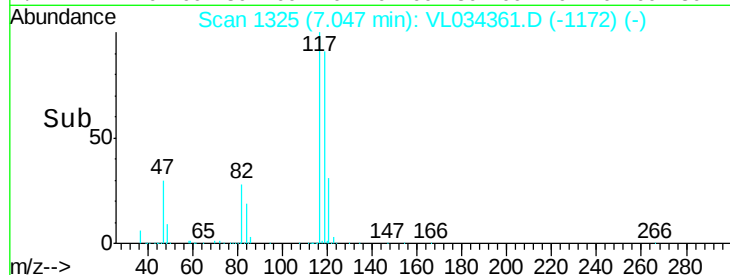
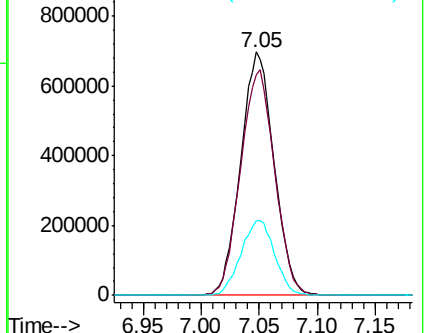
121 30.9 25.5 38.3



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: 9.535 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

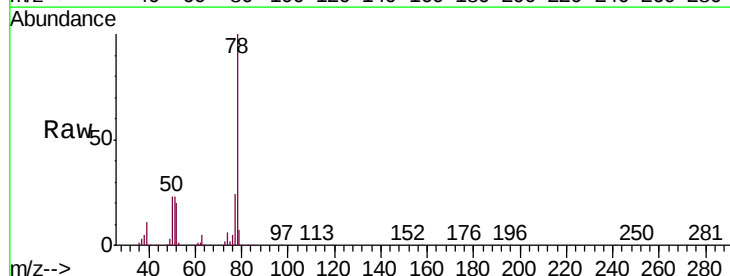
Tgt Ion: 78 Resp: 1731209

Ion Ratio Lower Upper

78 100

77 24.4 19.0 28.4

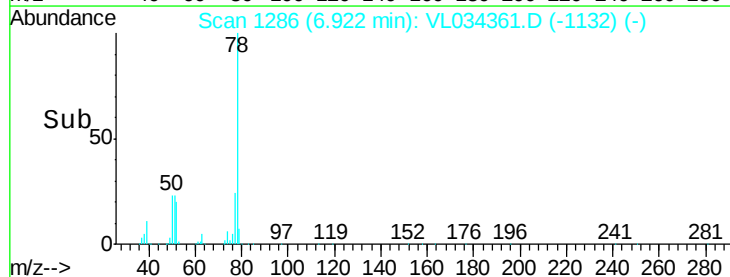
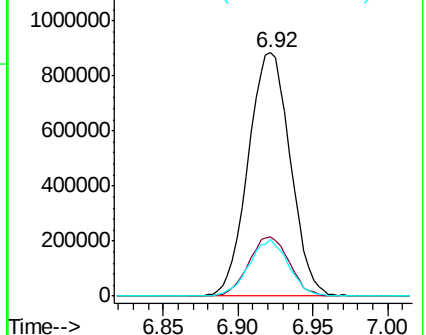
50 23.3 18.6 27.8

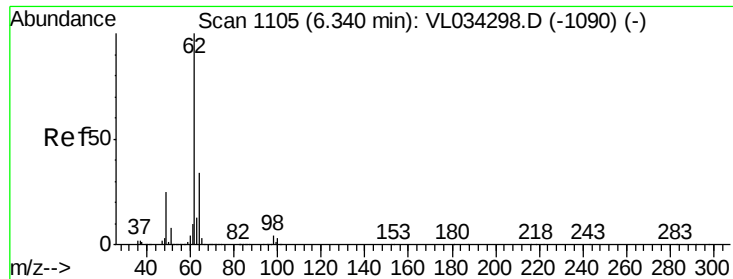


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

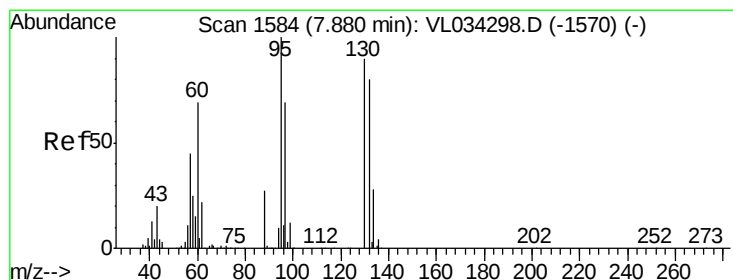
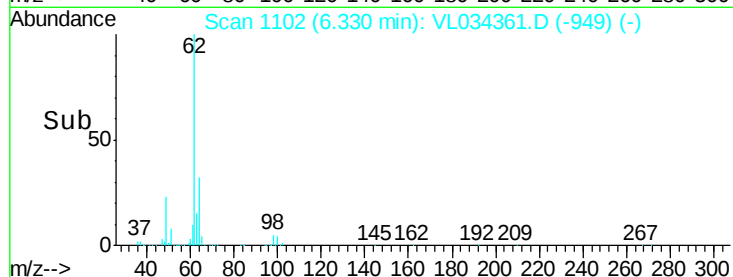
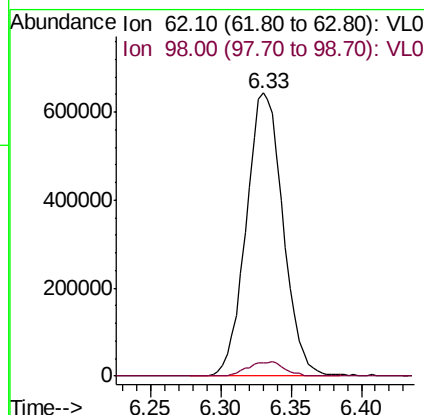
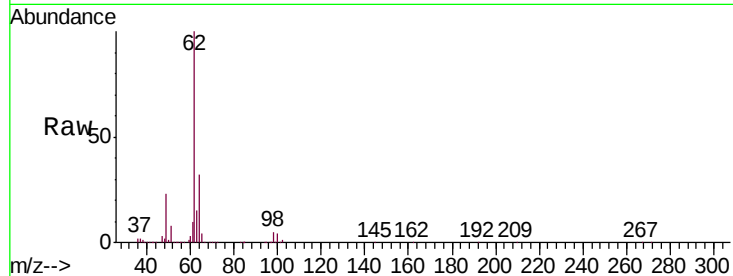




#37
 1,2-Dichloroethane
 Concen: 8.709 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

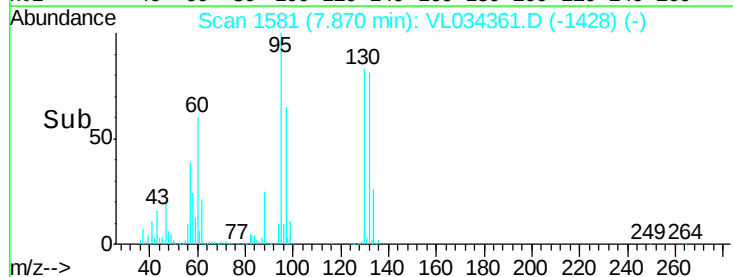
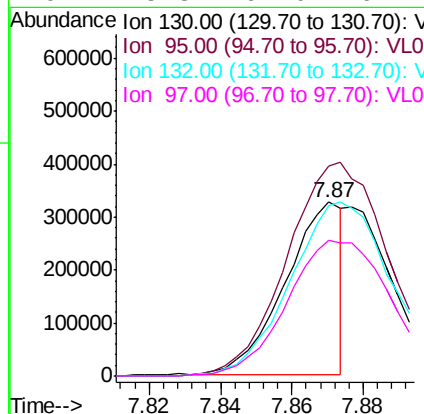
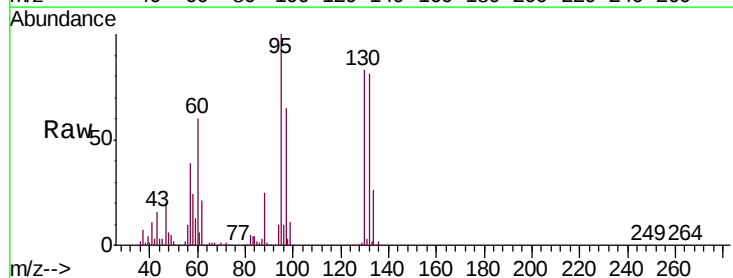
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

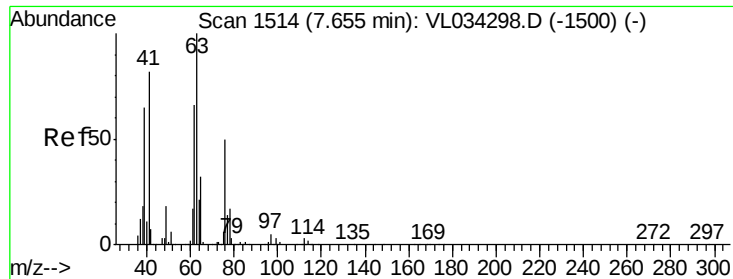
Tgt Ion: 62 Resp: 1178370
 Ion Ratio Lower Upper
 62 100
 98 5.1 3.8 5.6



#38
 Trichloroethene
 Concen: 4.969 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Tgt Ion: 130 Resp: 362019
 Ion Ratio Lower Upper
 130 100
 95 120.8 88.6 132.8
 132 97.8 71.2 106.8
 97 78.3 61.0 91.4

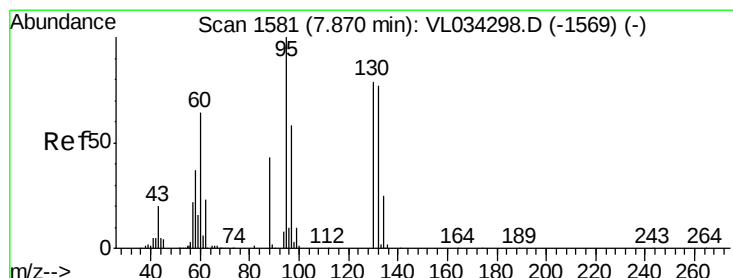
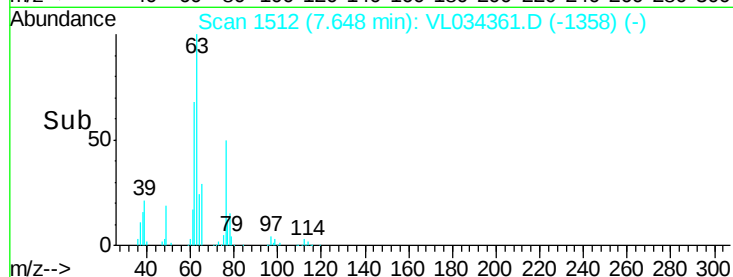
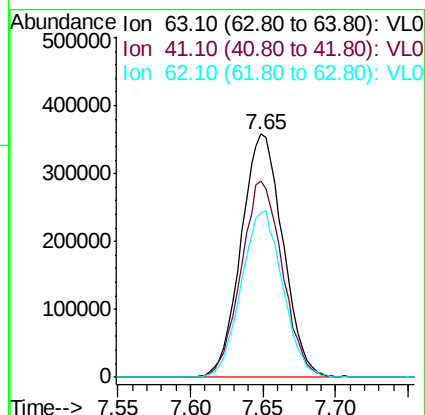
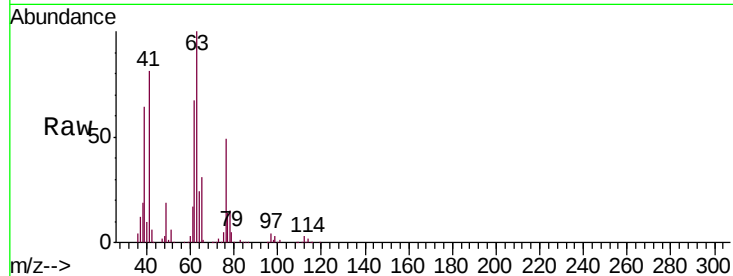




#39
 1,2-Dichloropropane
 Concen: 9.188 ppbv
 RT: 7.65 min Scan# 1512
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

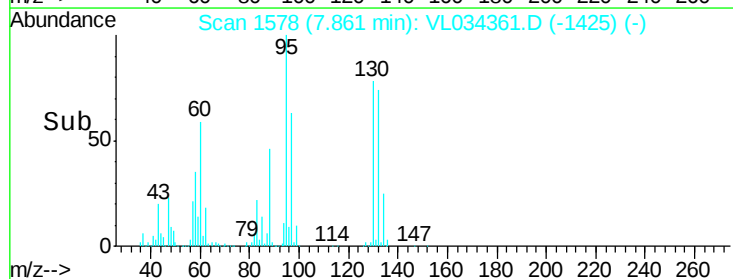
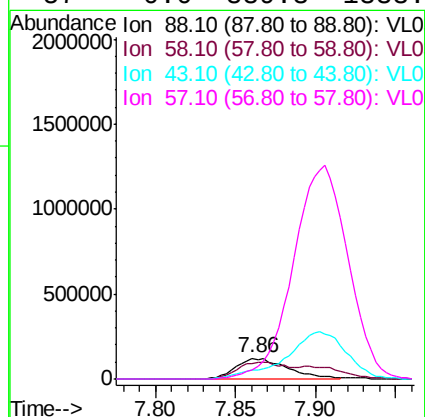
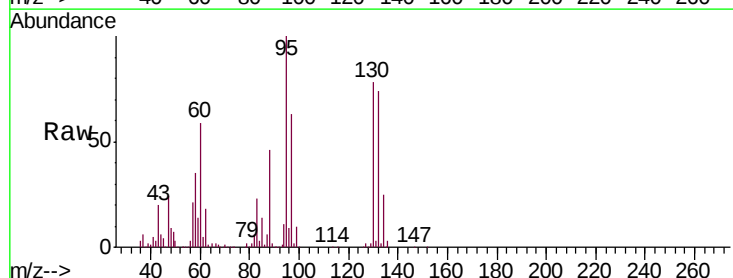
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

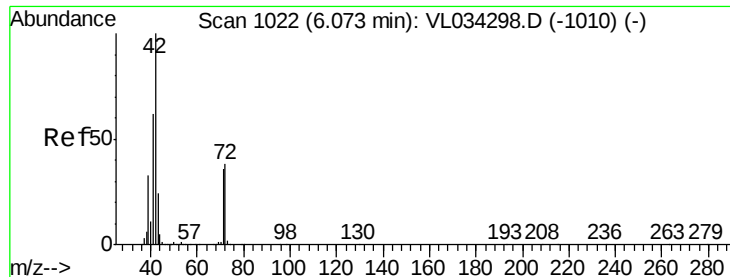
Tgt Ion: 63 Resp: 718312
 Ion Ratio Lower Upper
 63 100
 41 80.5 65.6 98.4
 62 67.3 53.0 79.6



#40
 1,4-Dioxane
 Concen: 9.864 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Tgt Ion: 88 Resp: 271004
 Ion Ratio Lower Upper
 88 100
 58 131.5 110.3 165.5
 43 0.0 228.1 342.1#
 57 0.0 889.3 1333.9#





#41

Tetrahydrofuran

Concen: 9.342 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

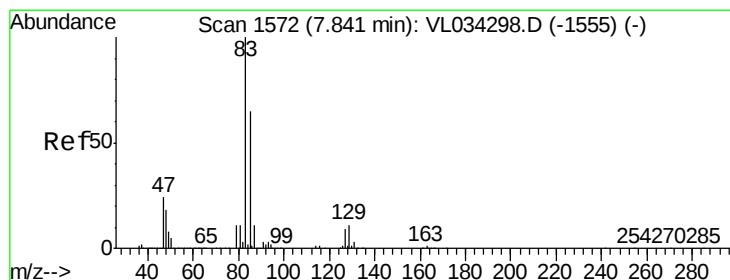
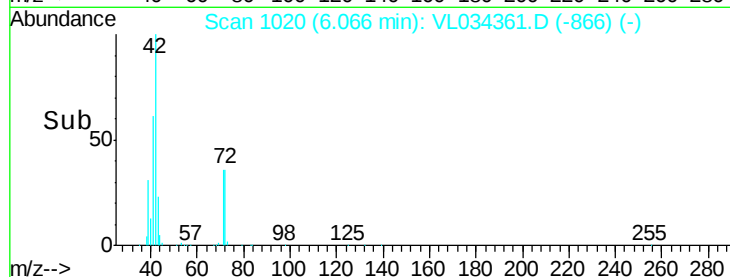
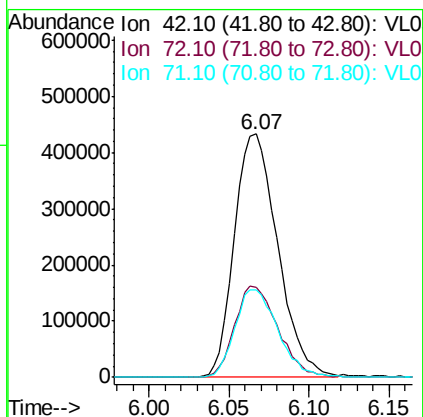
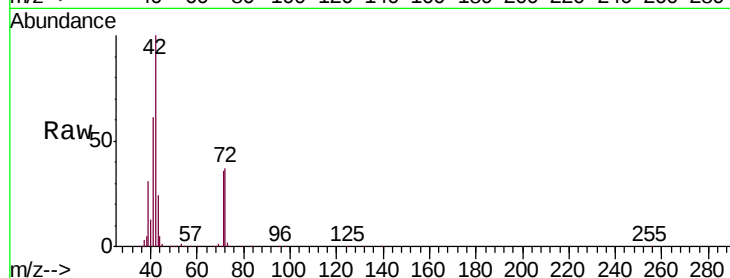
Tgt Ion: 42 Resp: 801931

Ion Ratio Lower Upper

42 100

72 37.6 28.0 42.0

71 36.0 27.3 40.9



#42

Bromodichloromethane

Concen: 9.342 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

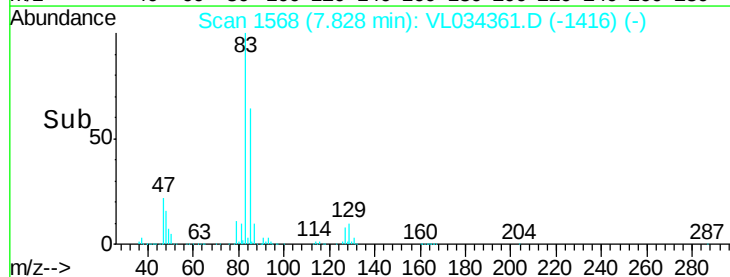
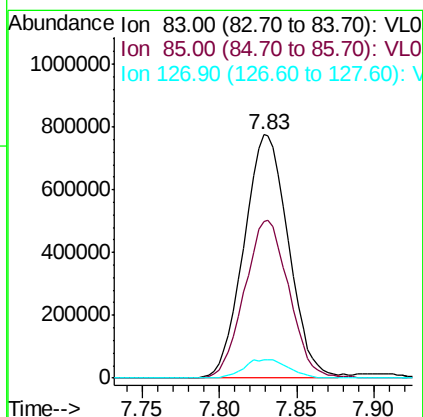
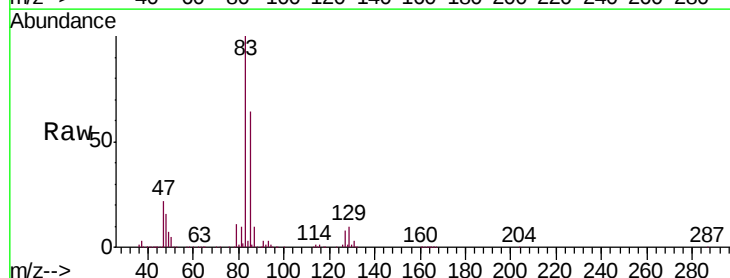
Tgt Ion: 83 Resp: 1548196

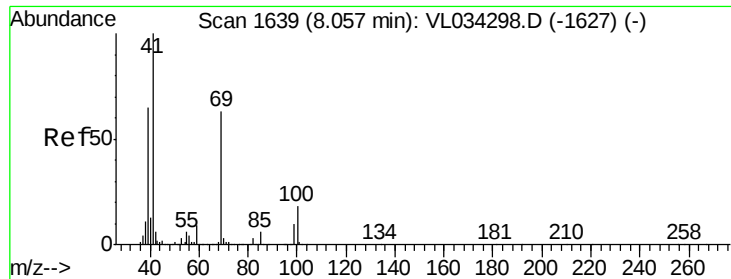
Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.6

127 7.6 7.0 10.6

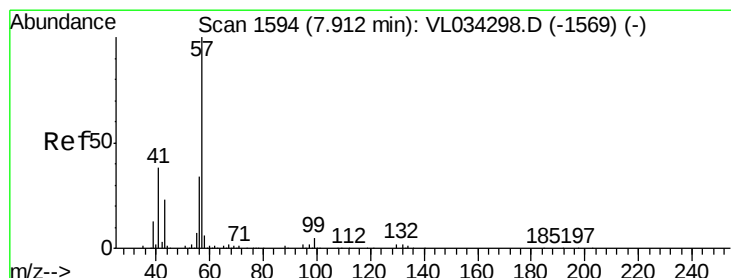
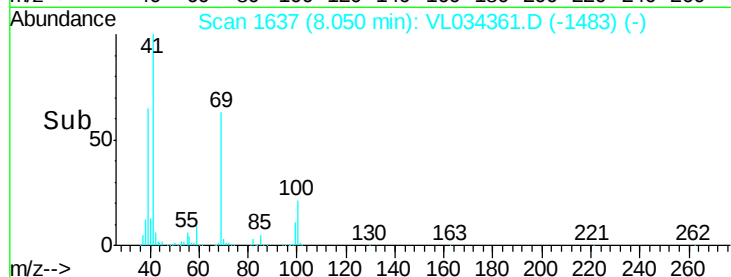
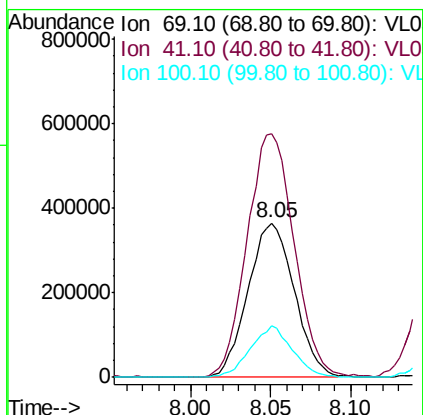
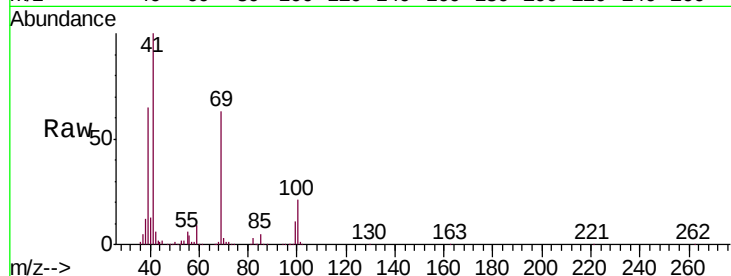




#43
Methyl Methacrylate
Concen: 9.668 ppbv
RT: 8.05 min Scan# 1637
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

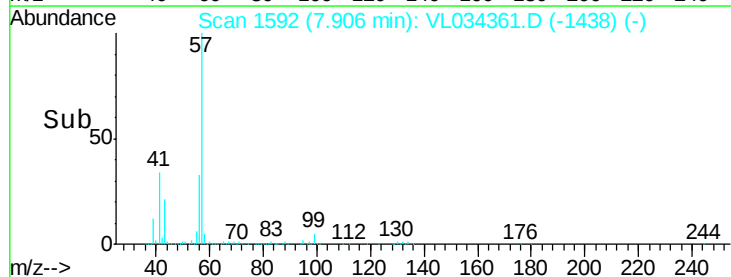
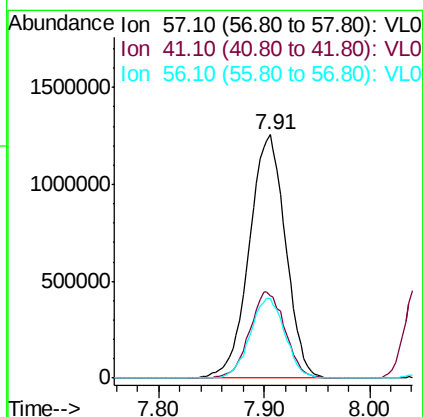
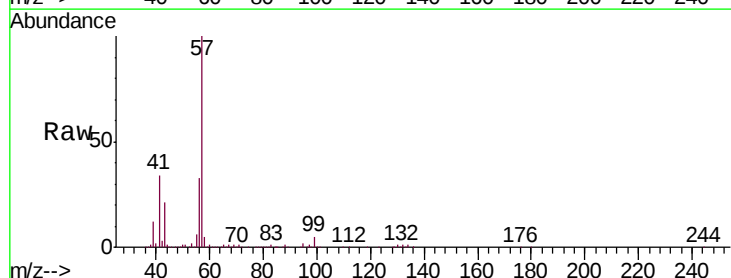
Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

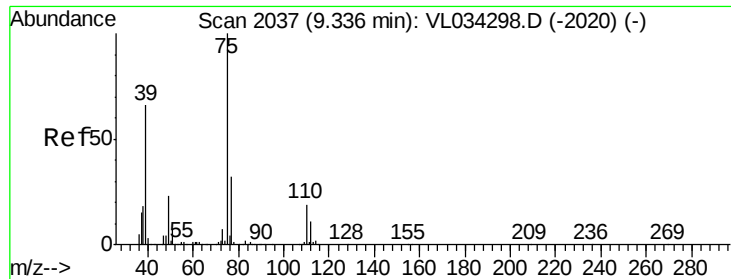
Tgt Ion	Resp	Lower	Upper
69	725948		
41	160.2	132.1	198.1
100	30.5	23.2	34.8



#44
2,2,4-Trimethylpentane
Concen: 8.962 ppbv
RT: 7.91 min Scan# 1592
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion	Resp	Lower	Upper
57	3011655		
41	34.6	29.3	43.9
56	31.6	25.3	37.9

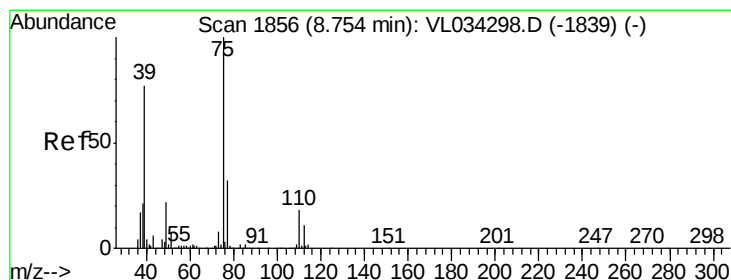
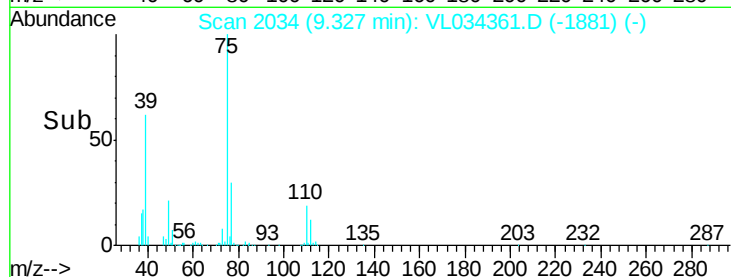
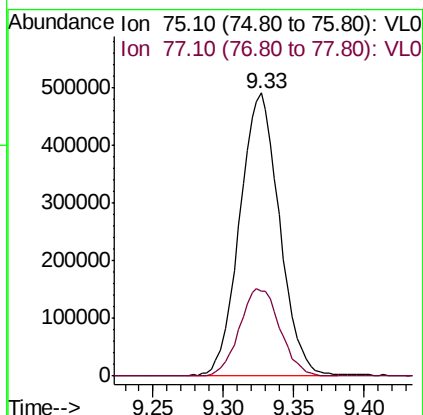
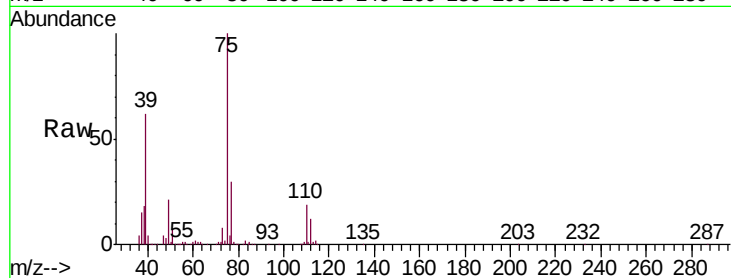




#45
t-1,3-Dichloropropene
Concen: 10.619 ppbv
RT: 9.33 min Scan# 2034
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

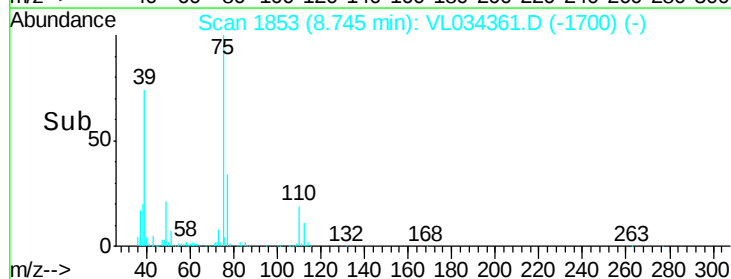
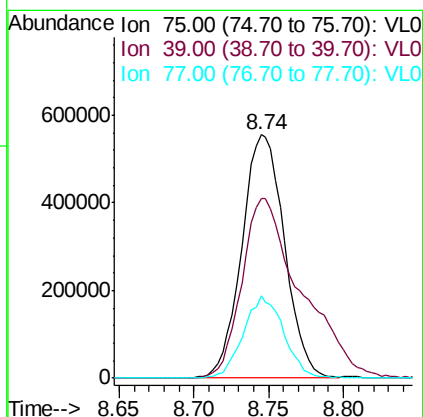
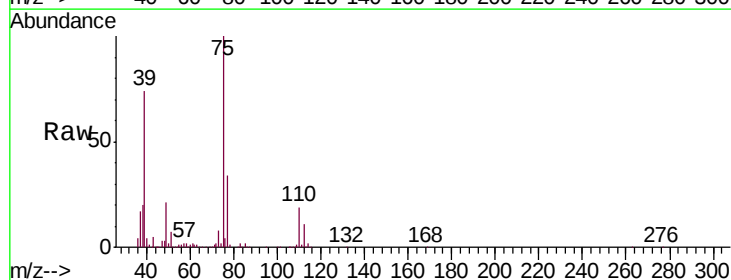
Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

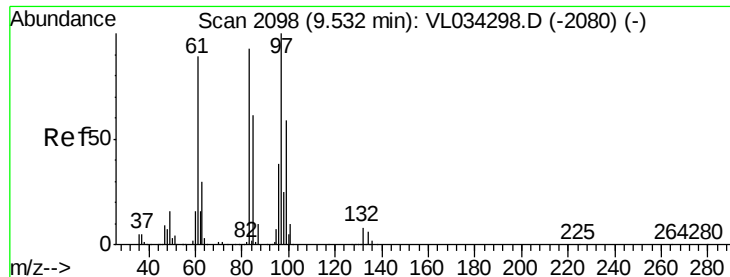
Tgt Ion: 75 Resp: 971505
Ion Ratio Lower Upper
75 100
77 30.1 25.6 38.4



#46
cis-1,3-Dichloropropene
Concen: 10.476 ppbv
RT: 8.74 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion: 75 Resp: 1101120
Ion Ratio Lower Upper
75 100
39 73.7 61.2 91.8
77 33.9 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 8.957 ppbv

RT: 9.52 min Scan# 2095

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

Tgt Ion: 97 Resp: 709257

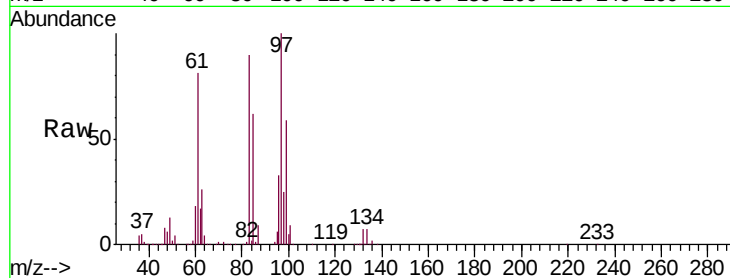
Ion Ratio Lower Upper

97 100

83 89.7 74.2 111.2

85 62.1 48.6 73.0

99 58.7 47.0 70.6

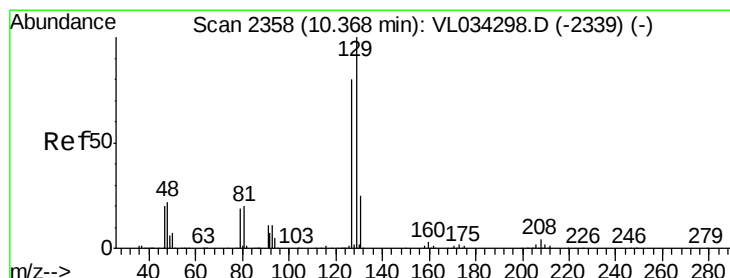
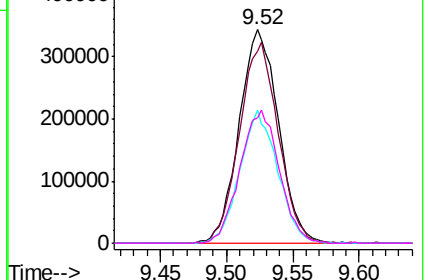
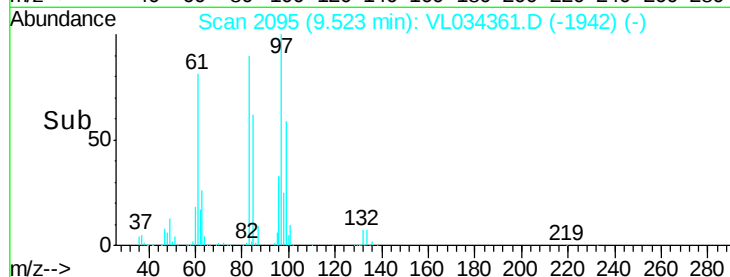


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.658 ppbv

RT: 10.36 min Scan# 2354

Delta R.T. -0.01 min

Lab File: VL034361.D

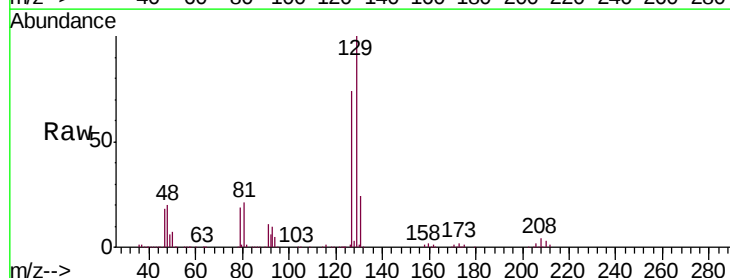
Acq: 25 Oct 2019 12:29

Tgt Ion: 129 Resp: 1254547

Ion Ratio Lower Upper

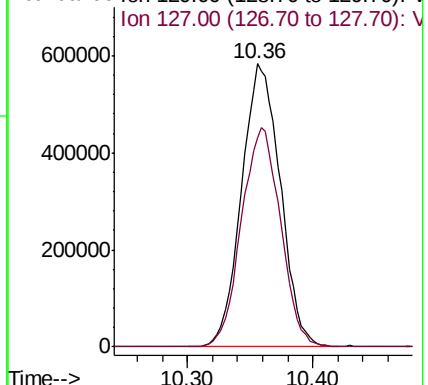
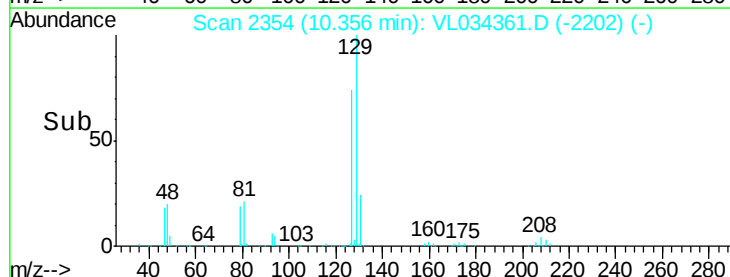
129 100

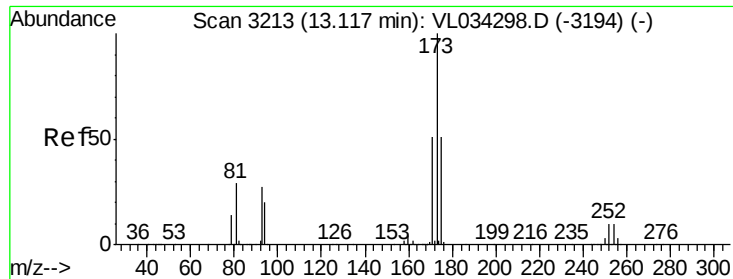
127 78.2 39.7 119.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.722 ppbv

RT: 13.11 min Scan# 3210

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

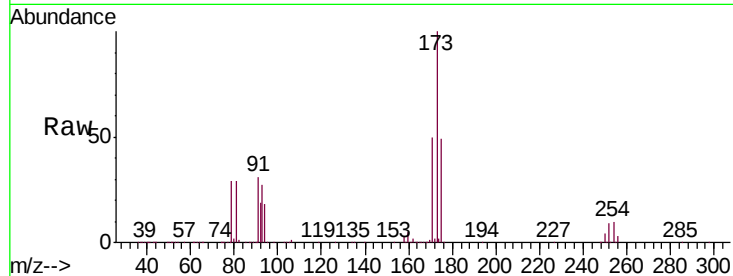
Tgt Ion:173 Resp: 1119096

Ion Ratio Lower Upper

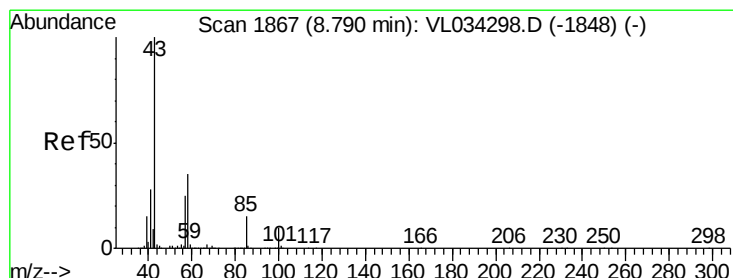
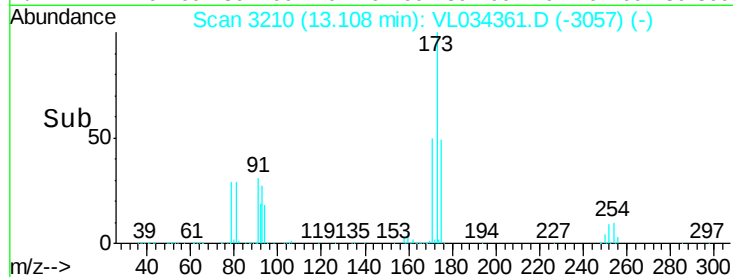
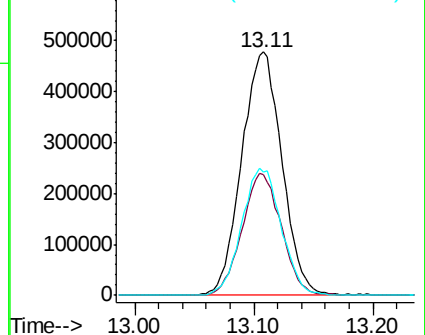
173 100

175 49.0 39.8 59.6

171 51.5 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: 9.054 ppbv

RT: 8.78 min Scan# 1864

Delta R.T. -0.01 min

Lab File: VL034361.D

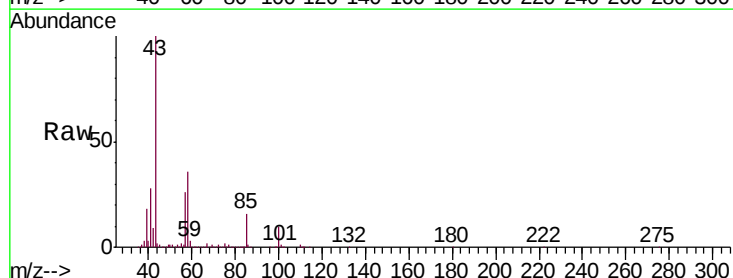
Acq: 25 Oct 2019 12:29

Tgt Ion: 43 Resp: 2004755

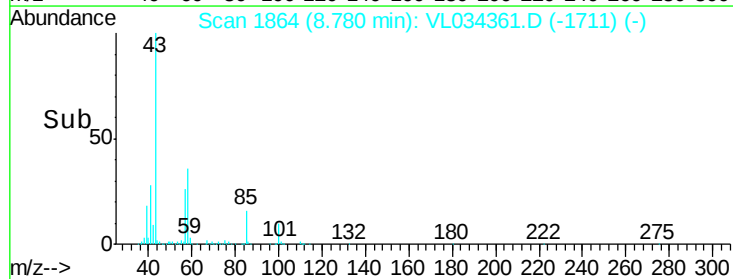
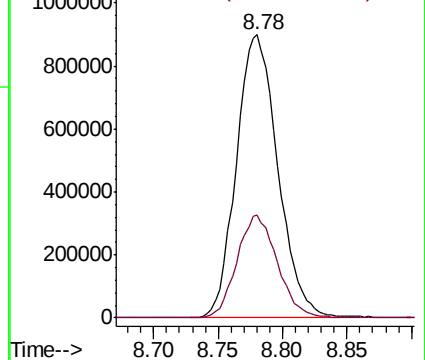
Ion Ratio Lower Upper

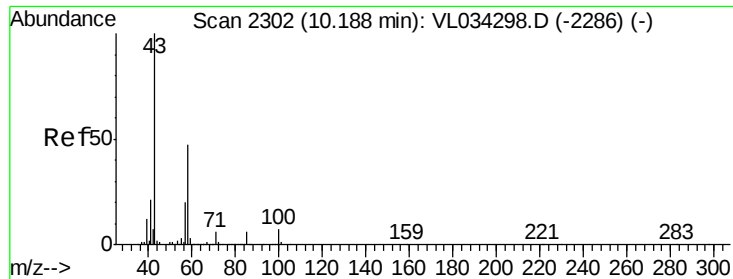
43 100

58 35.5 27.6 41.4



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

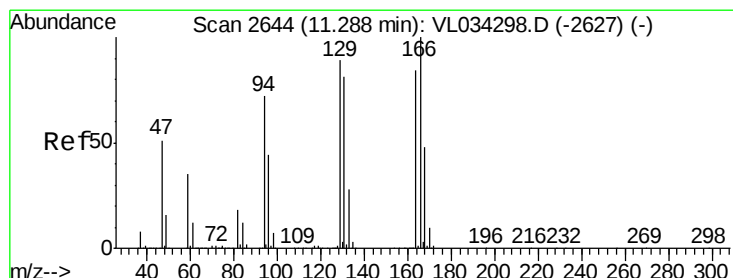
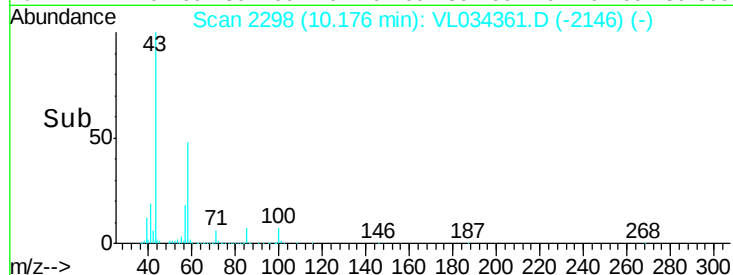
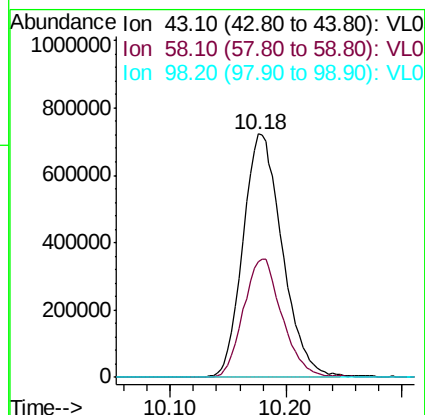
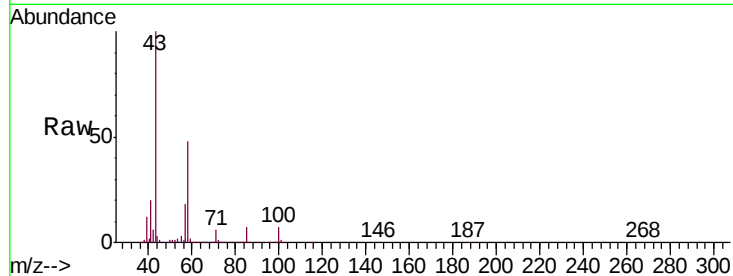




#51
2-Hexanone
Concen: 9.368 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

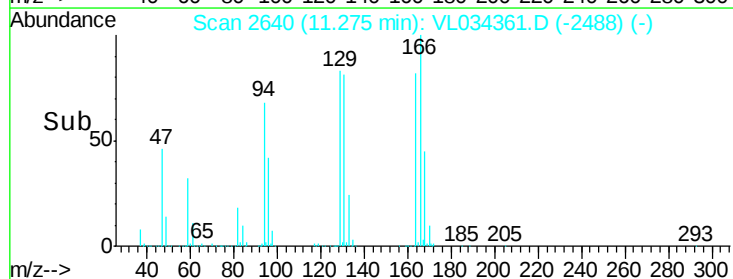
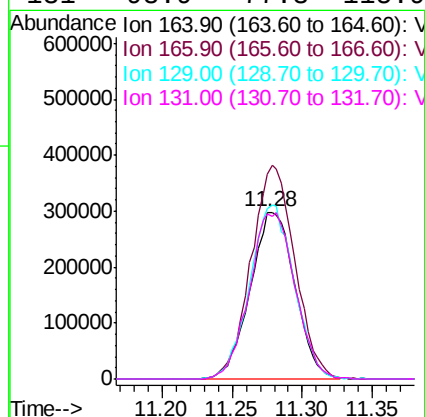
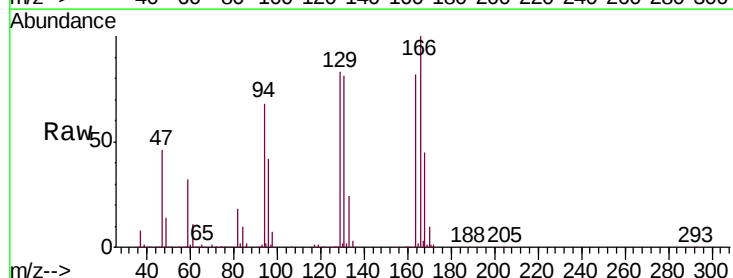
Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

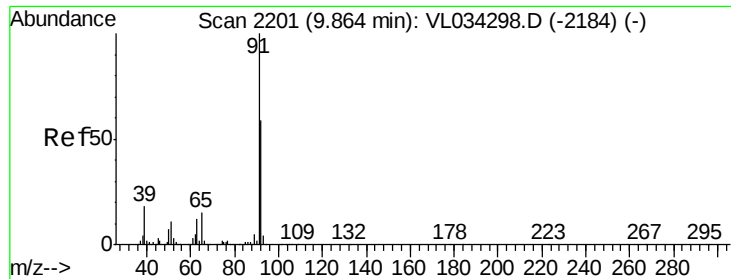
Tgt Ion: 43 Resp: 1700450
Ion Ratio Lower Upper
43 100
58 48.1 37.0 55.6
98 0.2 0.2 0.2#



#52
Tetrachloroethene
Concen: 9.257 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion: 164 Resp: 658761
Ion Ratio Lower Upper
164 100
166 122.6 95.3 142.9
129 102.3 84.5 126.7
131 98.9 77.3 115.9





#53

Toluene

Concen: 10.036 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

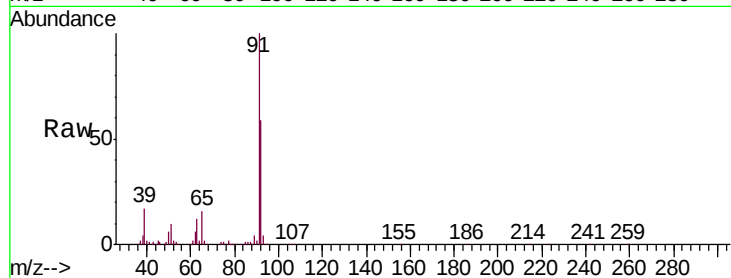
VL1025ABS01

Tgt Ion: 91 Resp: 2010779

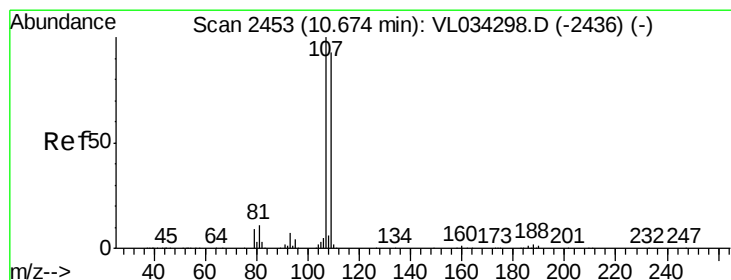
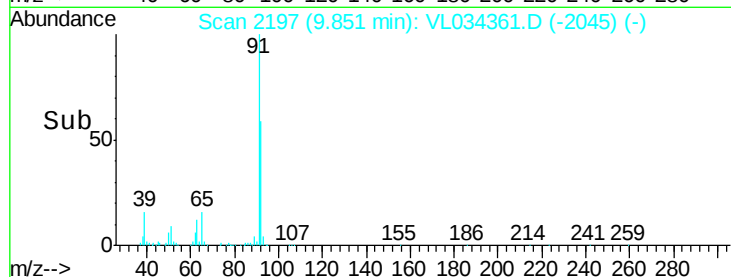
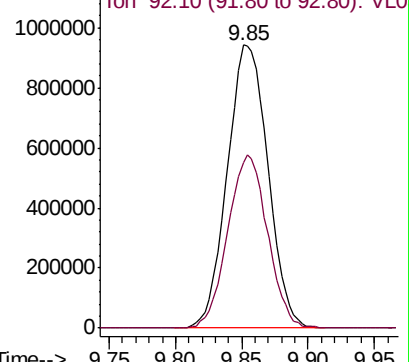
Ion Ratio Lower Upper

91 100

92 59.8 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 9.188 ppbv

RT: 10.67 min Scan# 2451

Delta R.T. -0.01 min

Lab File: VL034361.D

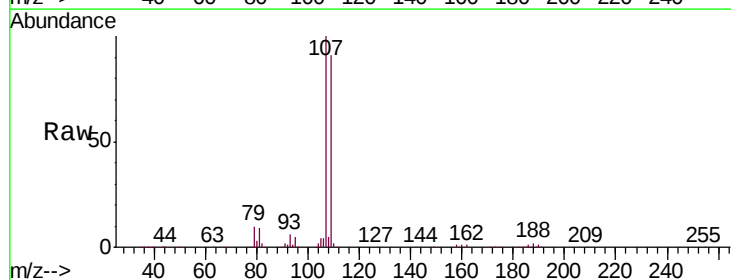
Acq: 25 Oct 2019 12:29

Tgt Ion: 107 Resp: 1078362

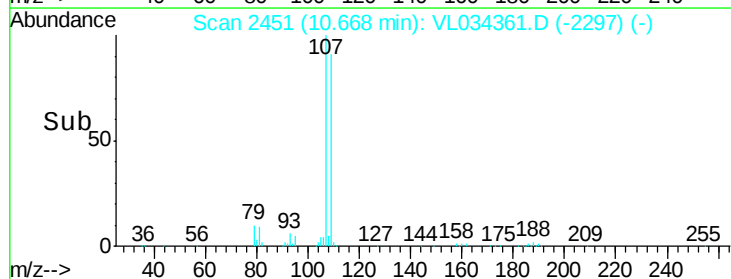
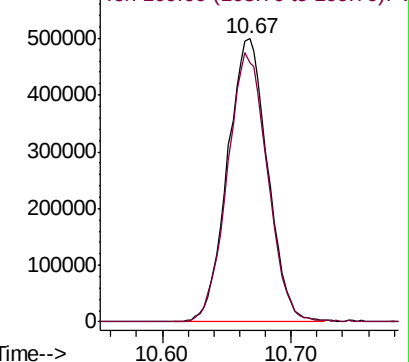
Ion Ratio Lower Upper

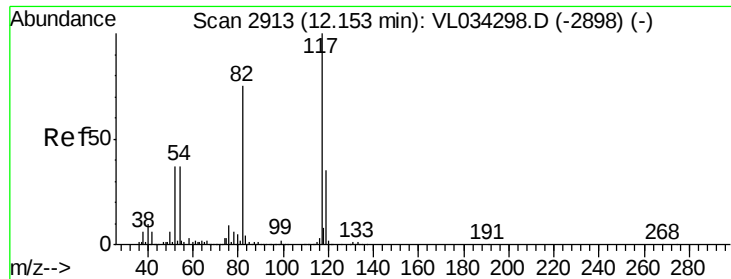
107 100

109 91.2 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

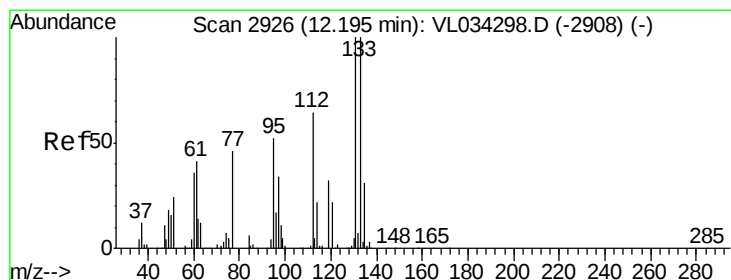
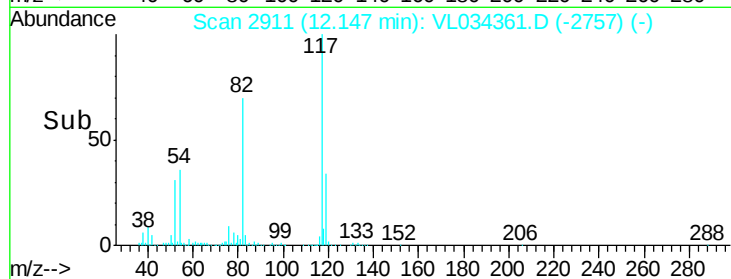
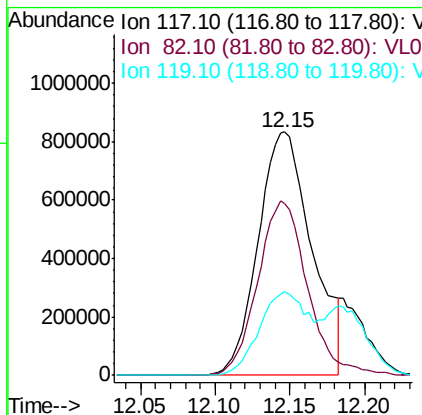
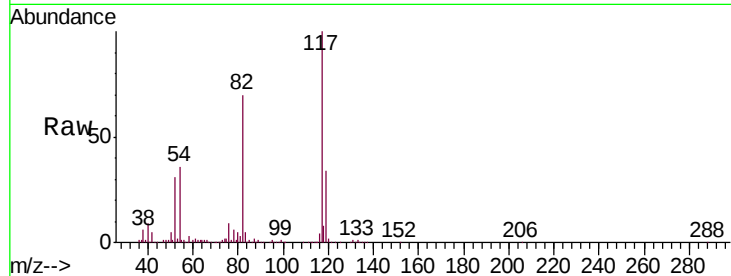




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

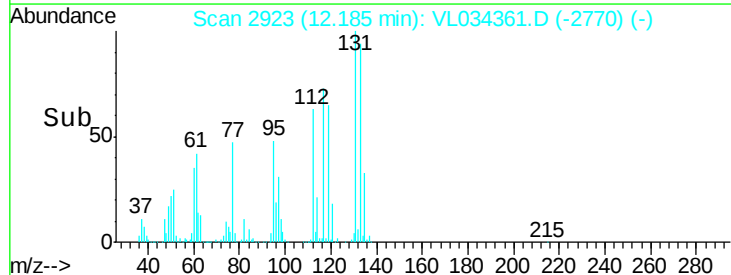
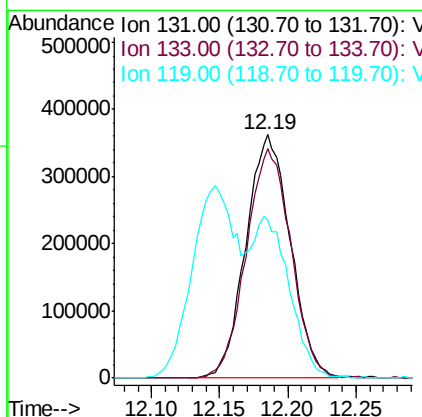
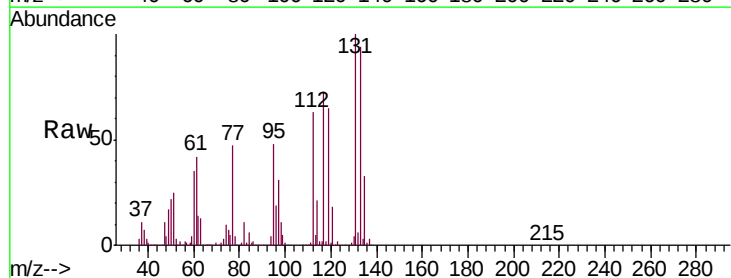
Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

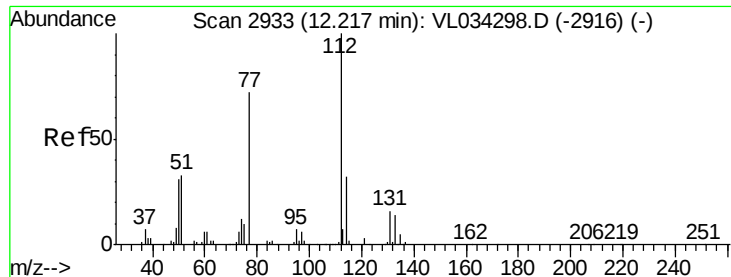
Tgt Ion:117 Resp: 2081087
Ion Ratio Lower Upper
117 100
82 66.6 55.5 83.3
119 32.2 26.5 39.7



#56
1,1,1,2-Tetrachloroethane
Concen: 8.501 ppbv
RT: 12.19 min Scan# 2923
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion:131 Resp: 815259
Ion Ratio Lower Upper
131 100
133 95.2 77.1 115.7
119 51.6 49.0 73.4





#57

Chlorobenzene

Concen: 8.541 ppbv

RT: 12.20 min Scan# 2929

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

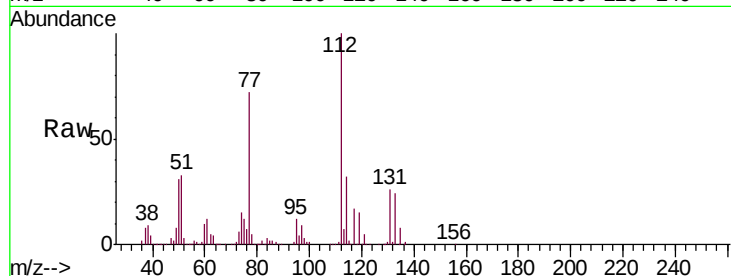
Tgt Ion: 112 Resp: 1482921

Ion Ratio Lower Upper

112 100

77 71.7 58.6 88.0

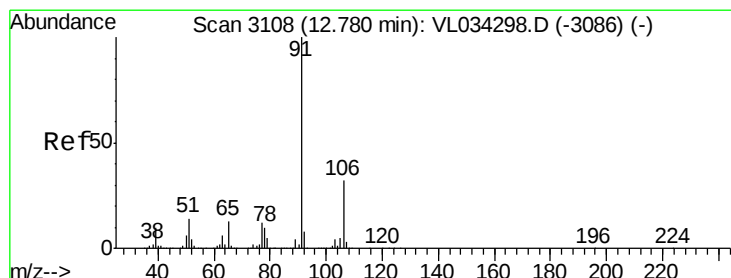
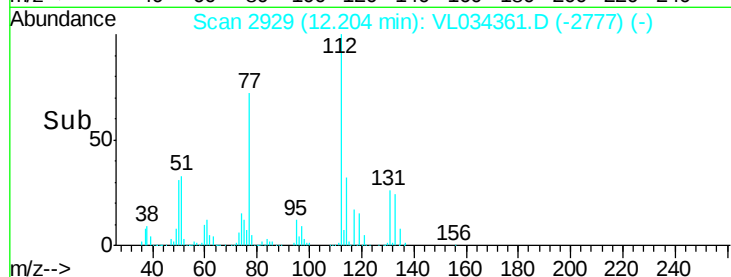
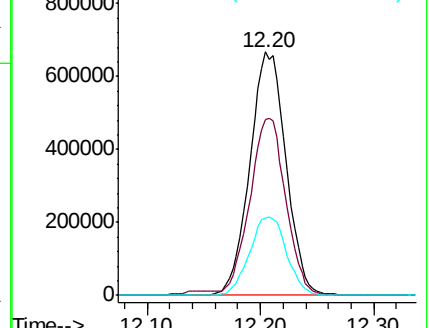
114 31.6 28.6 35.0



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: 9.337 ppbv

RT: 12.77 min Scan# 3105

Delta R.T. -0.01 min

Lab File: VL034361.D

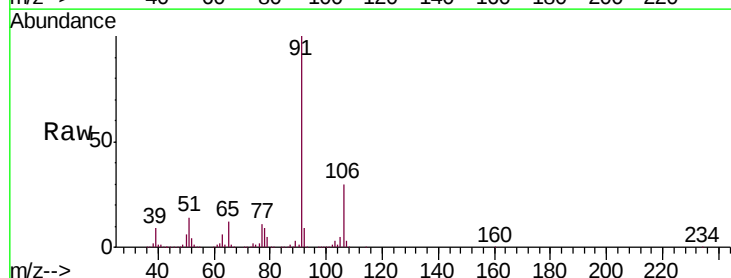
Acq: 25 Oct 2019 12:29

Tgt Ion: 91 Resp: 2716185

Ion Ratio Lower Upper

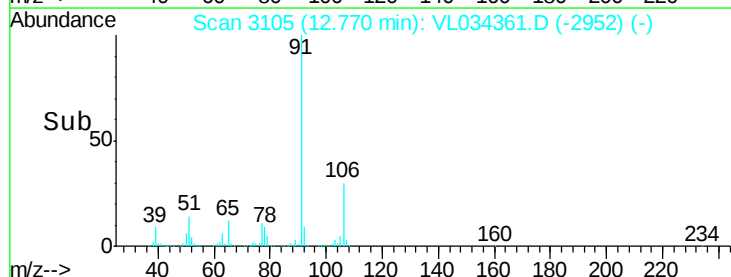
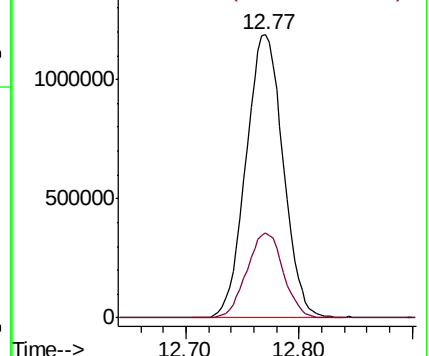
91 100

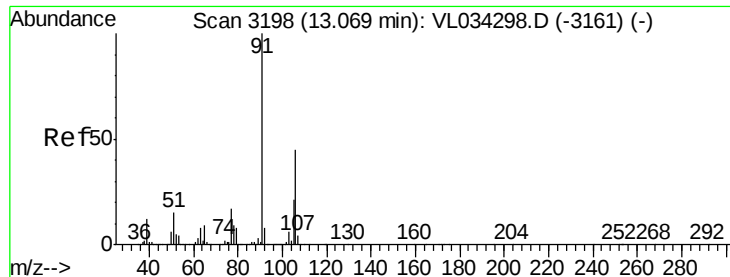
106 29.9 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 9.251 ppbv

RT: 13.06 min Scan# 3194

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

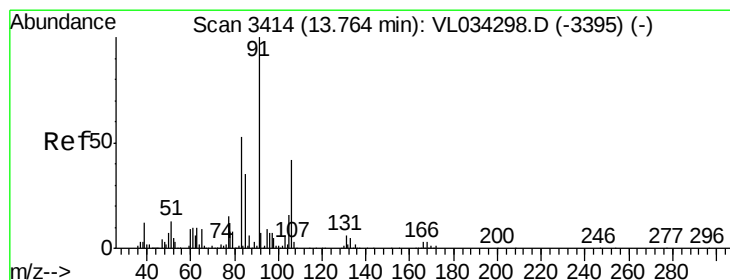
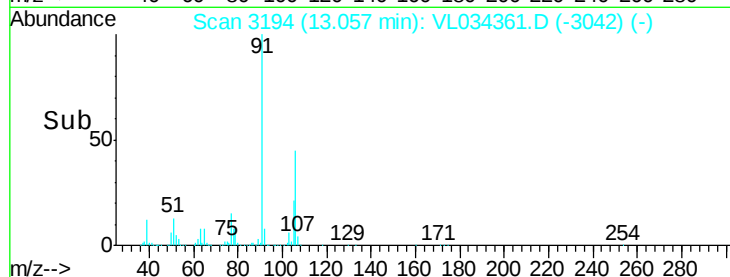
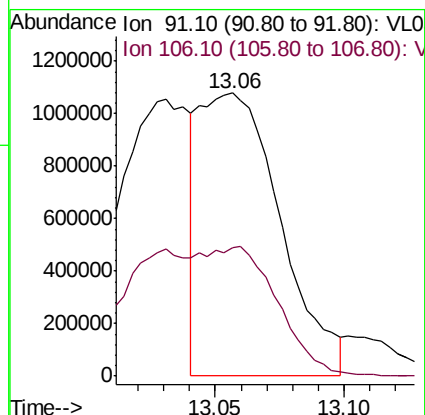
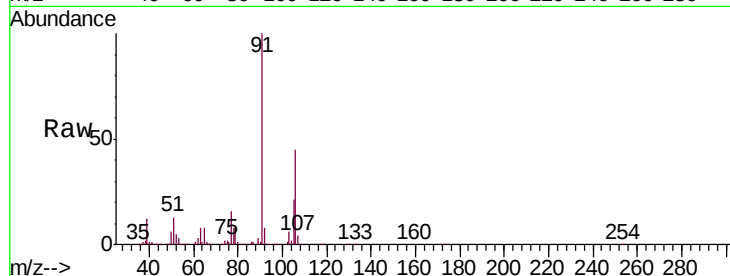
VL1025ABS01

Tgt Ion: 91 Resp: 2331867

Ion Ratio Lower Upper

91 100

106 84.0 35.4 53.2#



#60

o-Xylene

Concen: 8.737 ppbv

RT: 13.76 min Scan# 3412

Delta R.T. -0.01 min

Lab File: VL034361.D

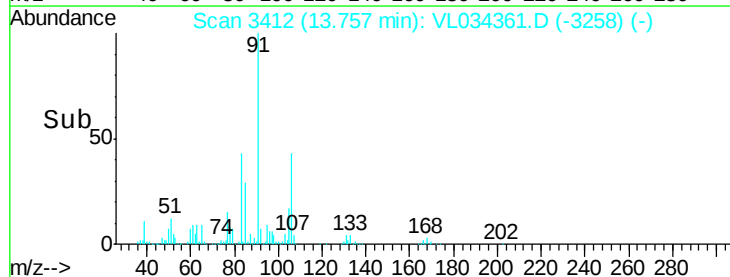
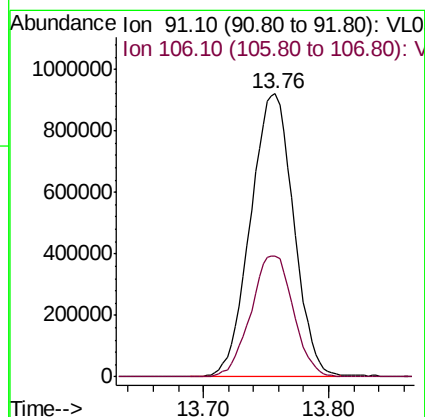
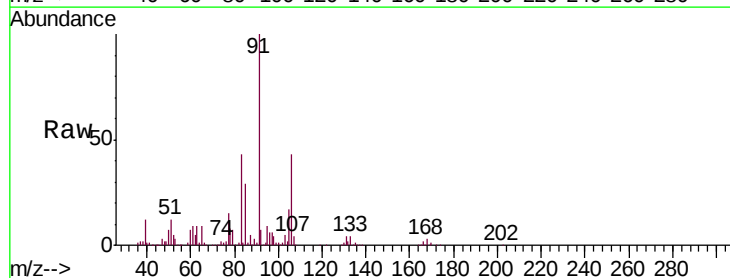
Acq: 25 Oct 2019 12:29

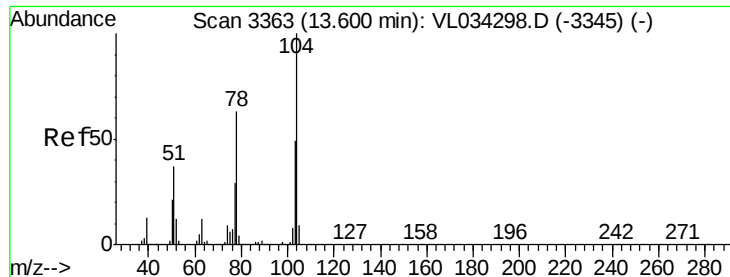
Tgt Ion: 91 Resp: 2192978

Ion Ratio Lower Upper

91 100

106 42.3 21.6 64.6





#61

Styrene

Concen: 9.550 ppbv

RT: 13.59 min Scan# 3360

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

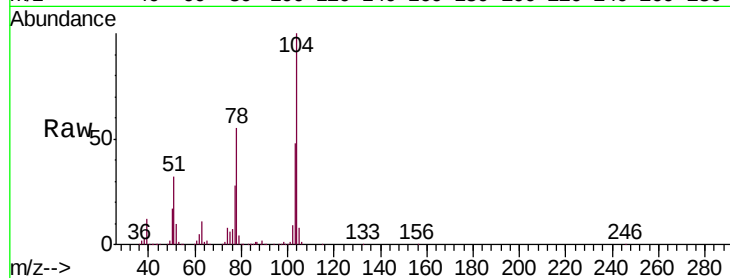
Tgt Ion:104 Resp: 1687544

Ion Ratio Lower Upper

104 100

78 57.9 47.8 71.8

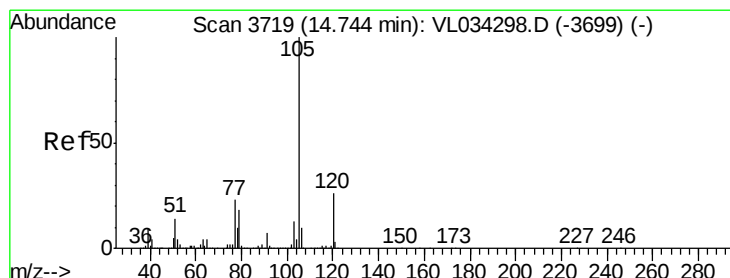
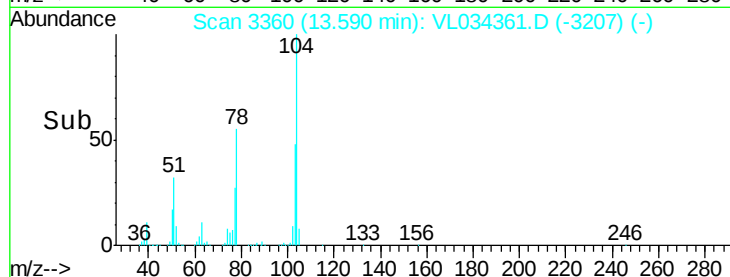
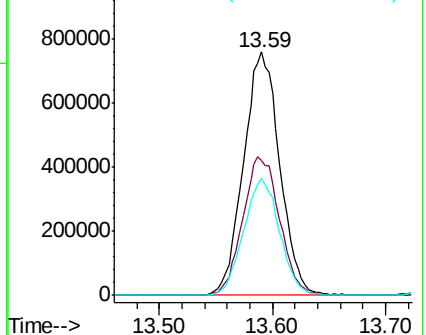
103 47.8 39.0 58.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.807 ppbv

RT: 14.73 min Scan# 3715

Delta R.T. -0.01 min

Lab File: VL034361.D

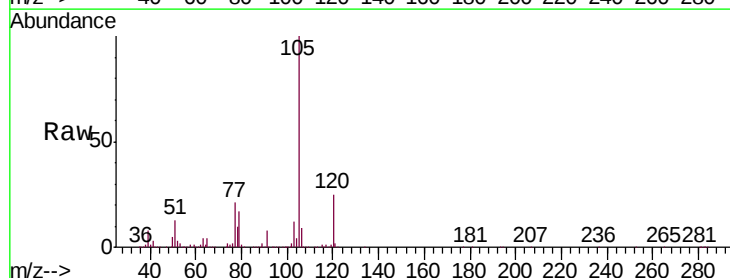
Acq: 25 Oct 2019 12:29

Tgt Ion:105 Resp: 2917890

Ion Ratio Lower Upper

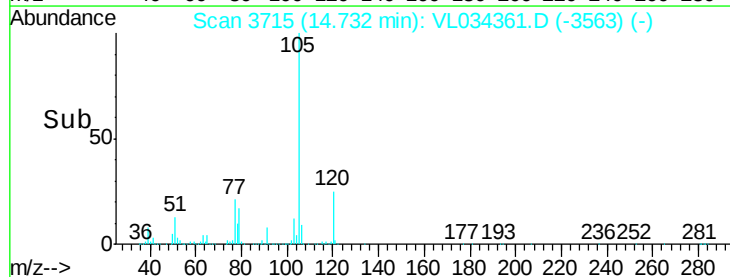
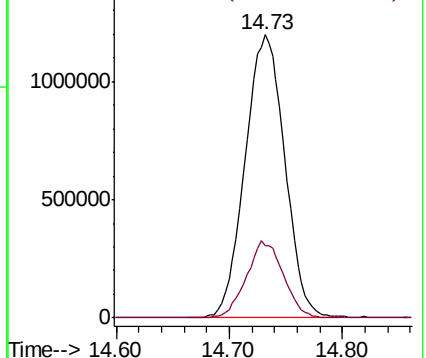
105 100

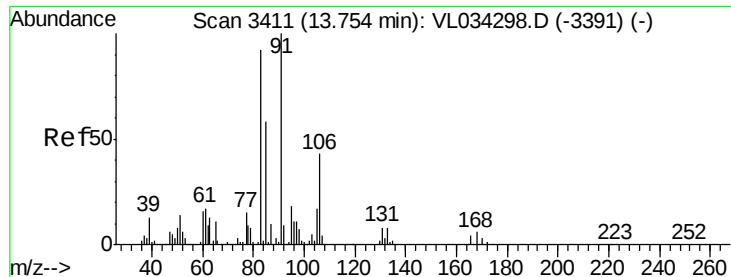
120 25.5 20.8 31.2



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: 7.442 ppbv

RT: 13.74 min Scan# 3407

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

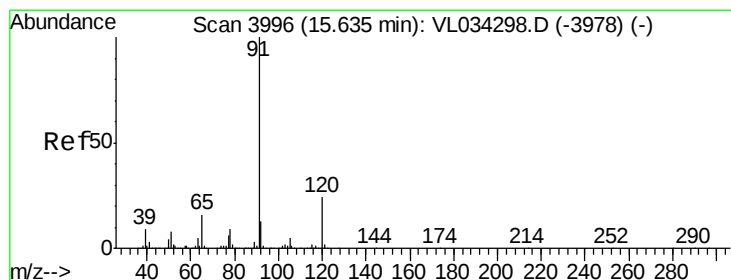
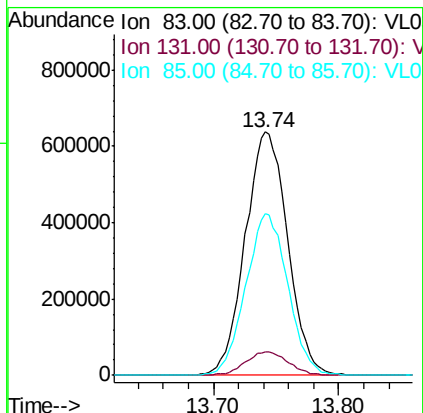
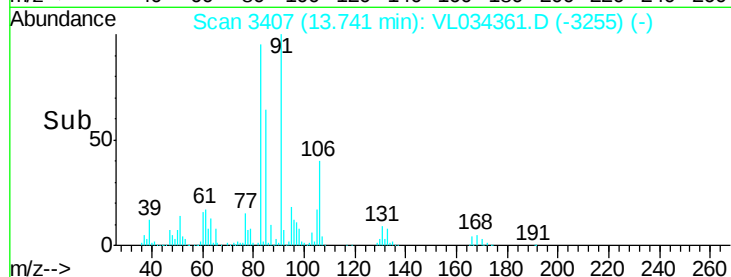
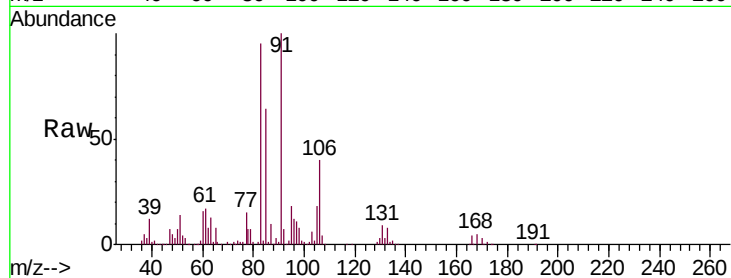
Tgt Ion: 83 Resp: 1500954

Ion Ratio Lower Upper

83 100

131 9.8 4.8 14.4

85 66.0 32.5 97.4



#64

n-propylbenzene

Concen: 8.897 ppbv

RT: 15.63 min Scan# 3993

Delta R.T. -0.01 min

Lab File: VL034361.D

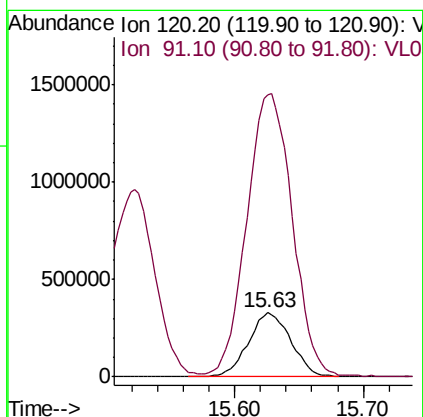
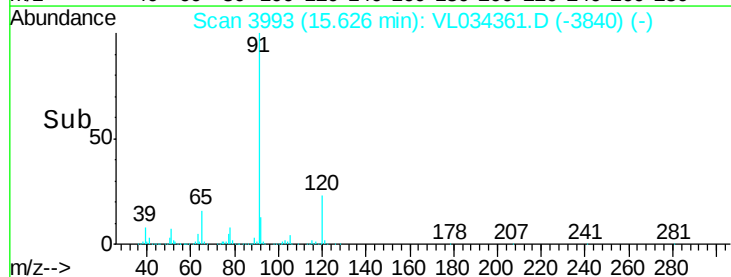
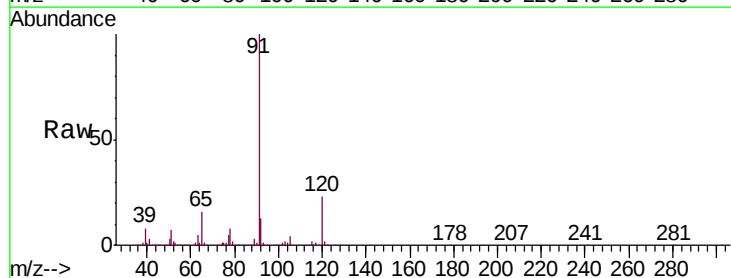
Acq: 25 Oct 2019 12:29

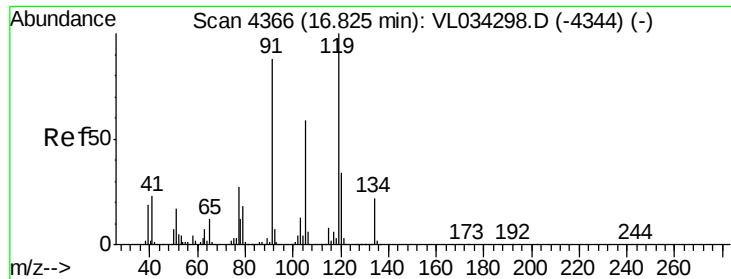
Tgt Ion: 120 Resp: 756526

Ion Ratio Lower Upper

120 100

91 474.5 374.9 562.3

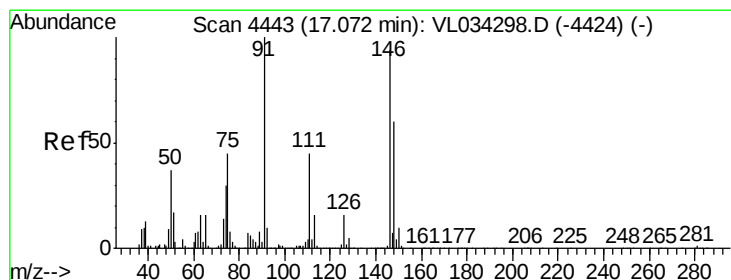
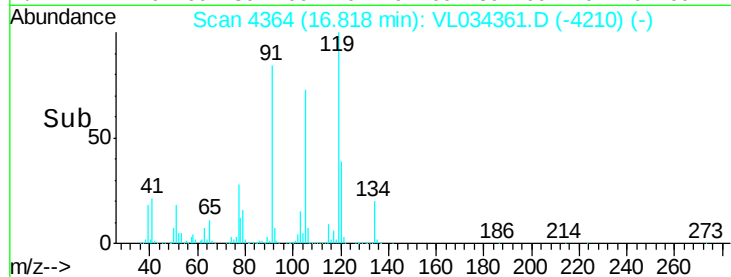
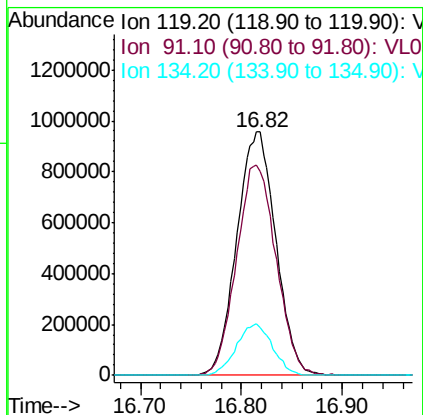
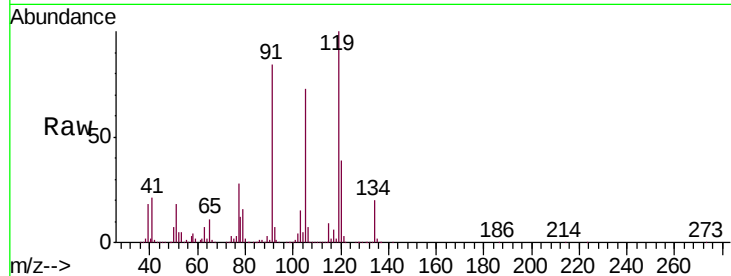




#65
 tert-Butylbenzene
 Concen: 8.728 ppbv
 RT: 16.82 min Scan# 4364
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

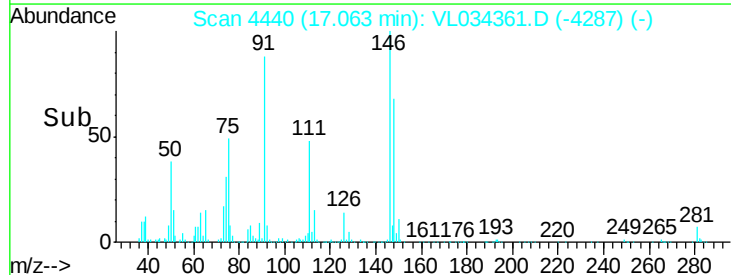
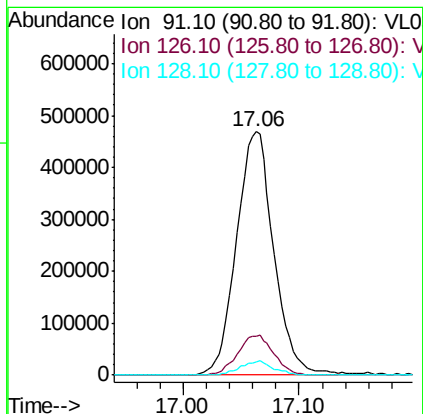
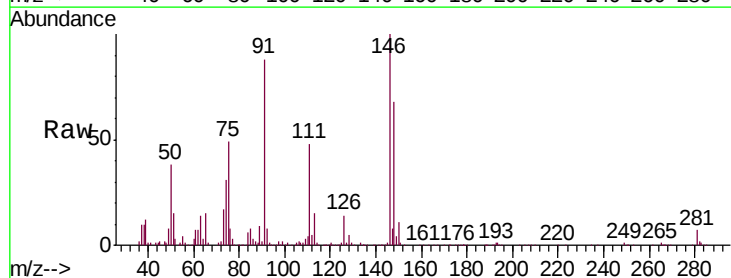
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

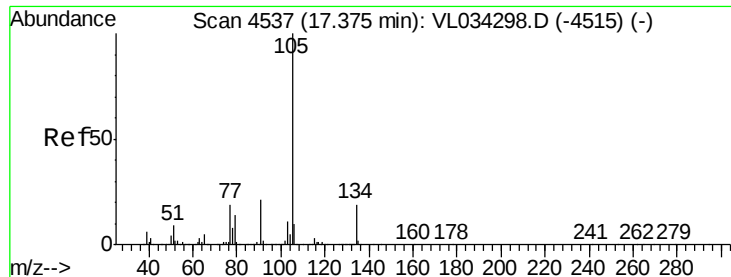
Tgt Ion: 119 Resp: 2563019
 Ion Ratio Lower Upper
 119 100
 91 88.0 71.4 107.0
 134 19.7 15.9 23.9



#66
 Benzyl Chloride
 Concen: 8.948 ppbv
 RT: 17.06 min Scan# 4440
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Tgt Ion: 91 Resp: 1037801
 Ion Ratio Lower Upper
 91 100
 126 16.2 12.9 19.3
 128 5.2 4.3 6.5





#67

sec-Butylbenzene

Concen: 8.615 ppbv

RT: 17.37 min Scan# 4534

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

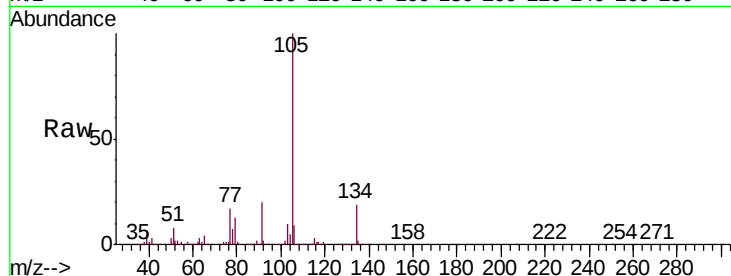
VL1025ABS01

Tgt Ion:105 Resp: 3559972

Ion Ratio Lower Upper

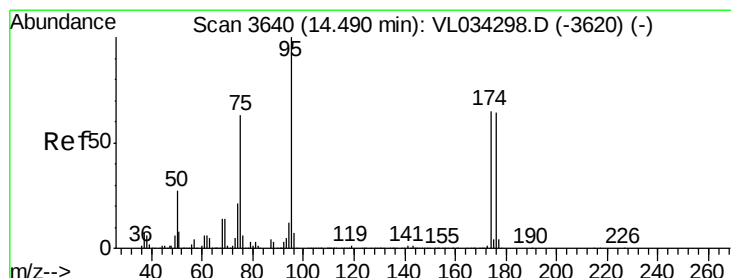
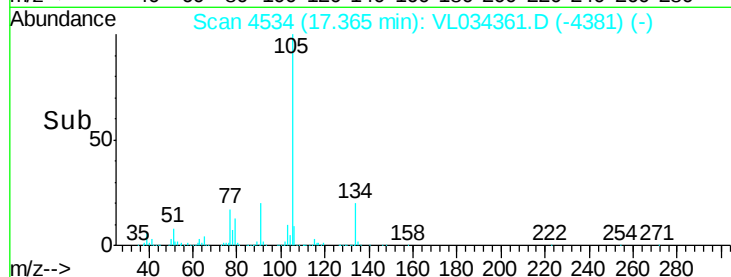
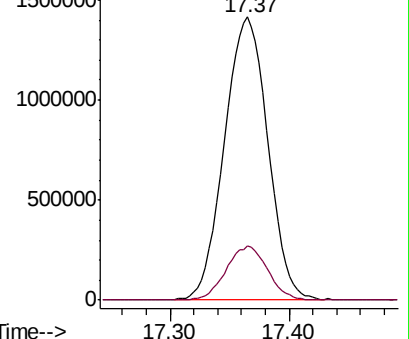
105 100

134 18.5 15.4 23.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.088 ppbv

RT: 14.48 min Scan# 3636

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

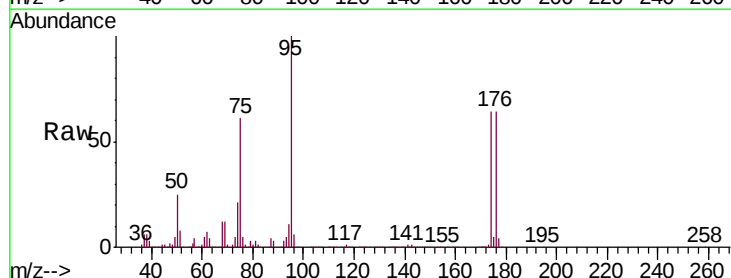
Tgt Ion: 95 Resp: 1601850

Ion Ratio Lower Upper

95 100

174 66.8 52.6 78.8

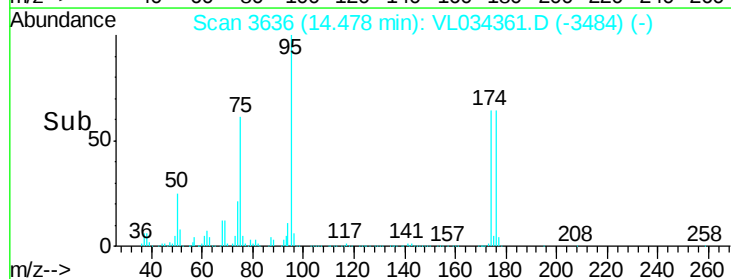
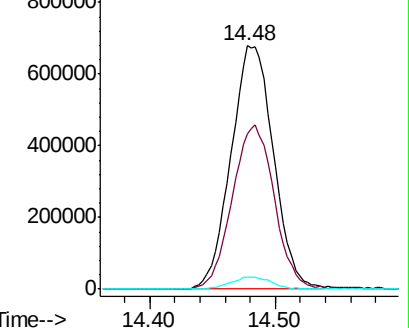
175 4.8 3.8 5.6

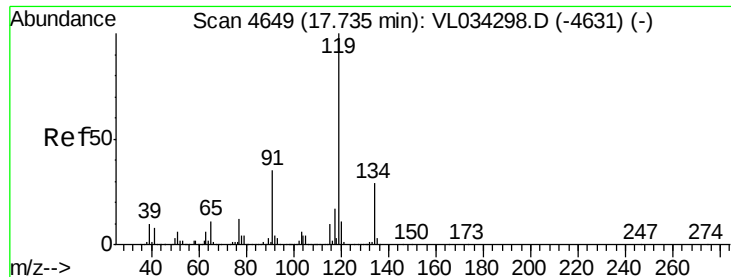


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

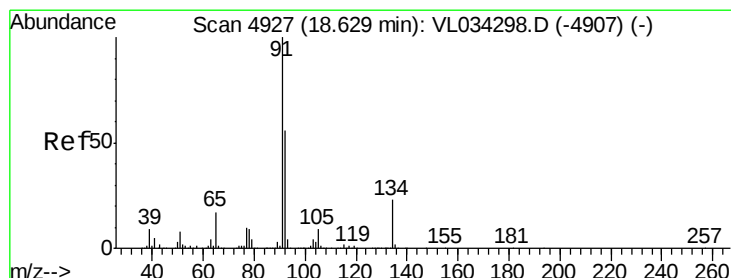
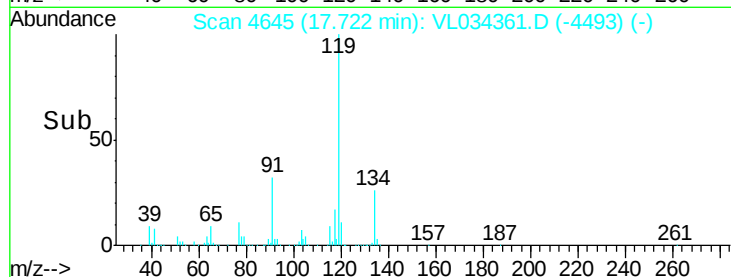
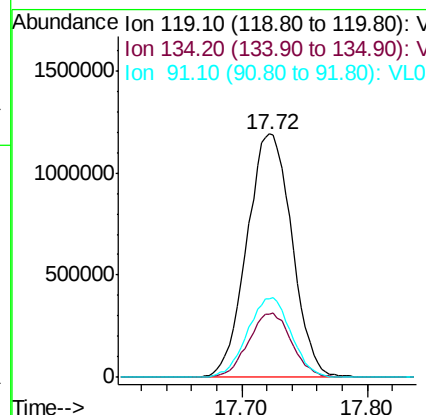
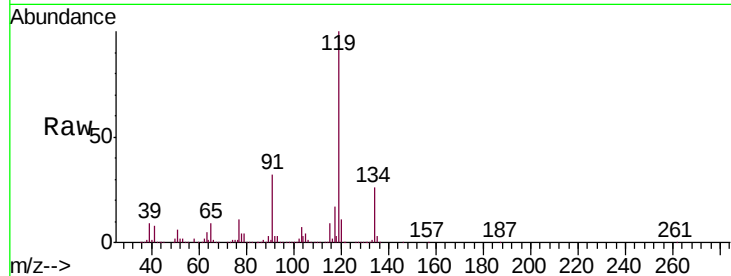




#69
p-Isopropyltoluene
Concen: 8.782 ppbv
RT: 17.72 min Scan# 4645
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

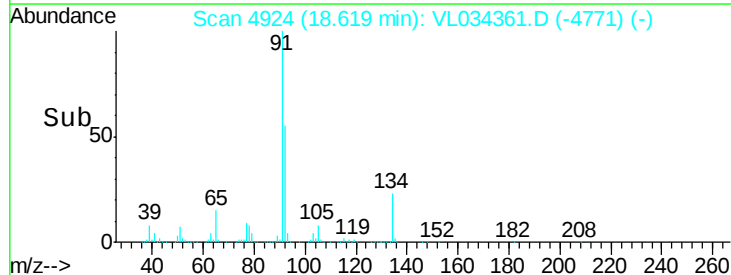
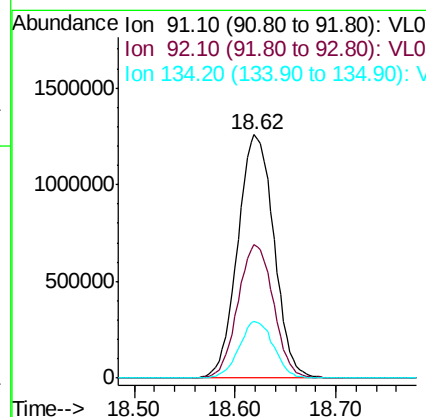
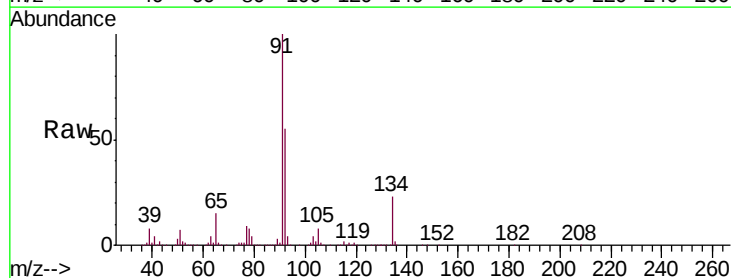
Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

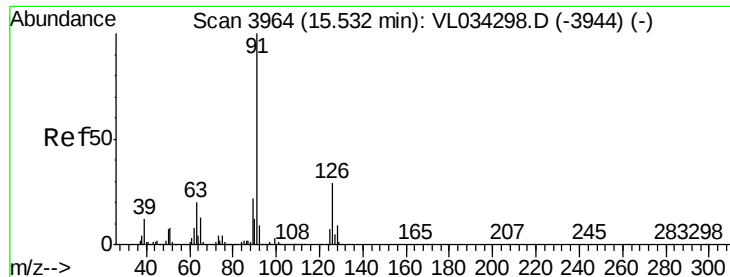
Tgt Ion: 119 Resp: 2958927
Ion Ratio Lower Upper
119 100
134 25.5 21.3 31.9
91 31.9 26.6 39.8



#70
n-Butylbenzene
Concen: 8.529 ppbv
RT: 18.62 min Scan# 4924
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion: 91 Resp: 3126515
Ion Ratio Lower Upper
91 100
92 54.0 44.5 66.7
134 22.4 18.2 27.2





#71

2-Chlorotoluene

Concen: 8.889 ppbv

RT: 15.52 min Scan# 3961

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

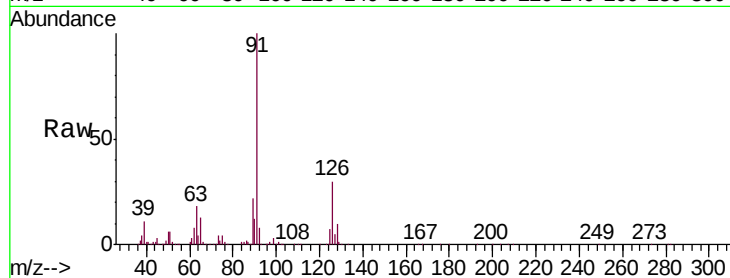
VL1025ABS01

Tgt Ion: 91 Resp: 2283534

Ion Ratio Lower Upper

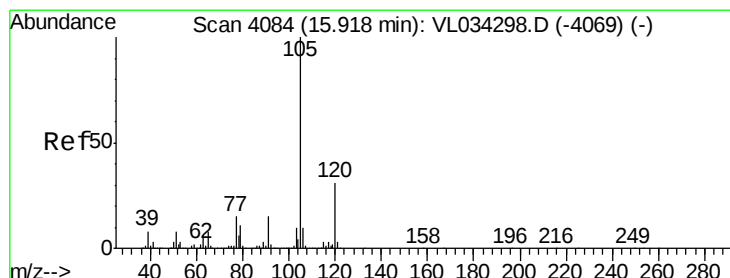
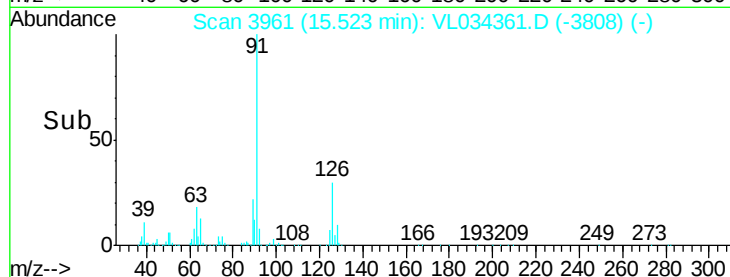
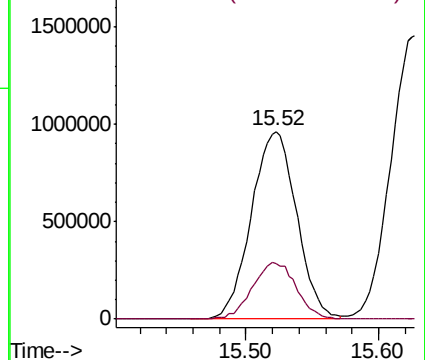
91 100

126 29.6 11.9 47.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.160 ppbv

RT: 15.91 min Scan# 4080

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Tgt Ion: 105 Resp: 2584458

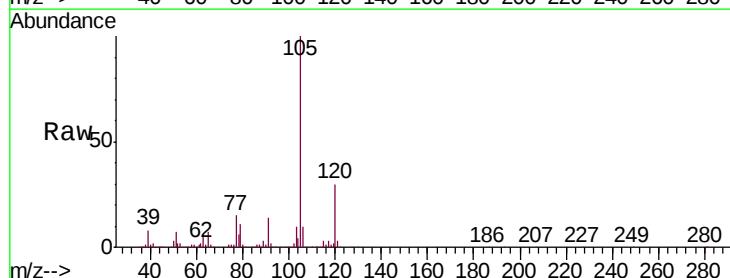
Ion Ratio Lower Upper

105 100

120 28.8 23.8 35.8

91 13.6 11.2 16.8

77 15.0 12.8 19.2

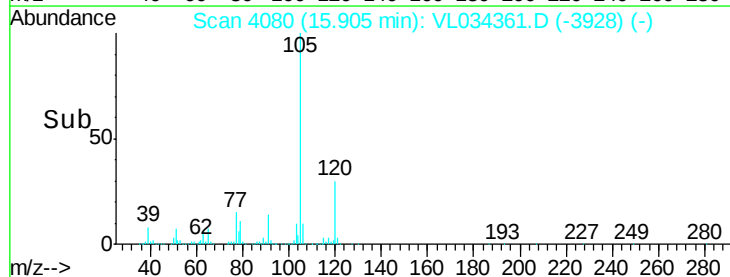
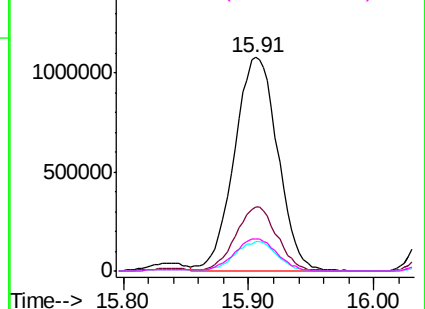


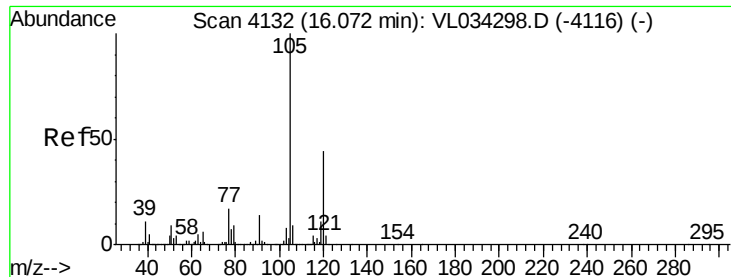
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.683 ppbv

RT: 16.07 min Scan# 4130

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

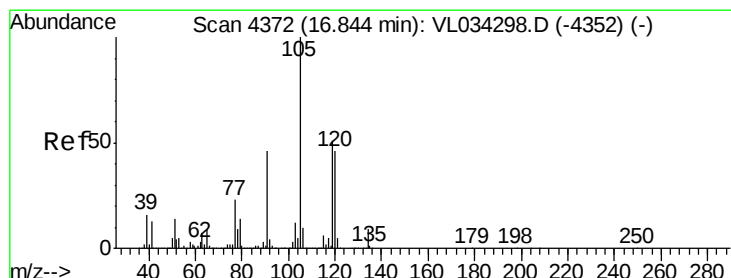
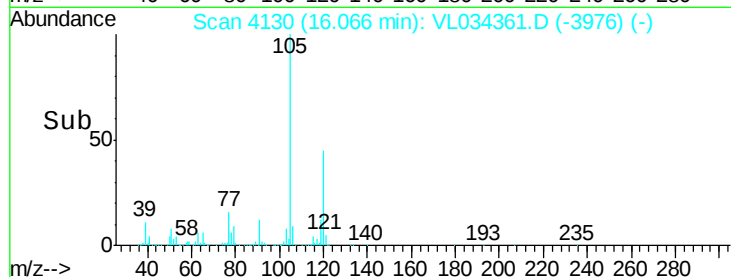
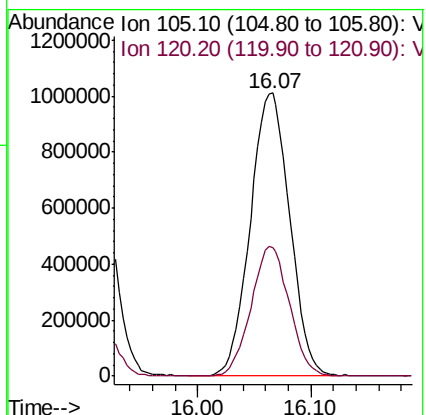
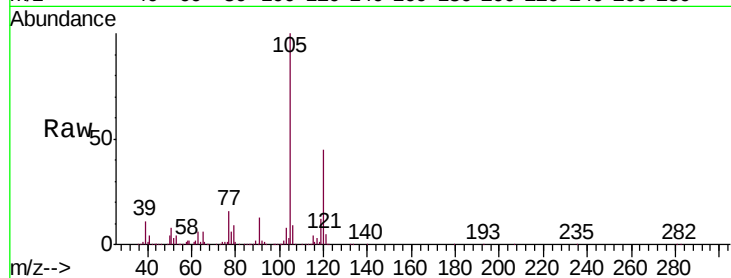
VL1025ABS01

Tgt Ion:105 Resp: 2427316

Ion Ratio Lower Upper

105 100

120 45.4 35.2 52.8



#74

1,2,4-Trimethylbenzene

Concen: 8.505 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Tgt Ion:105 Resp: 2479457

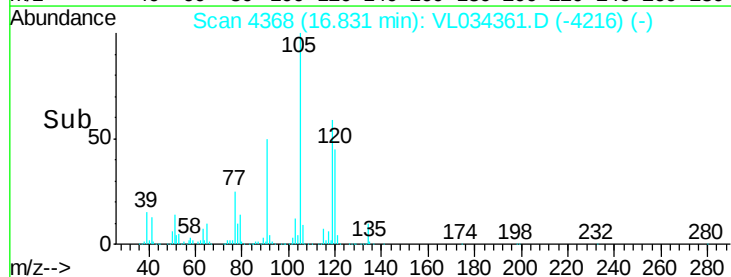
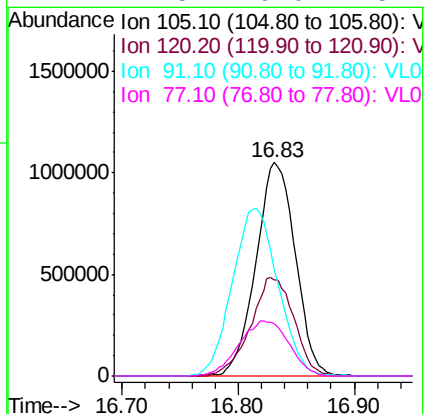
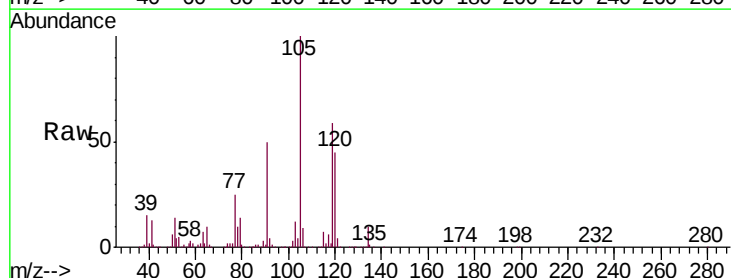
Ion Ratio Lower Upper

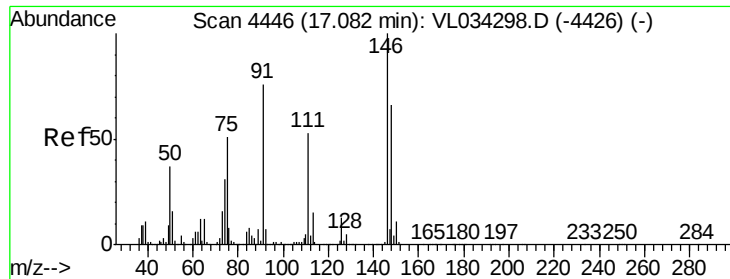
105 100

120 45.1 37.0 55.6

91 49.4 38.2 57.2

77 24.5 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 8.006 ppbv

RT: 17.07 min Scan# 4442

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

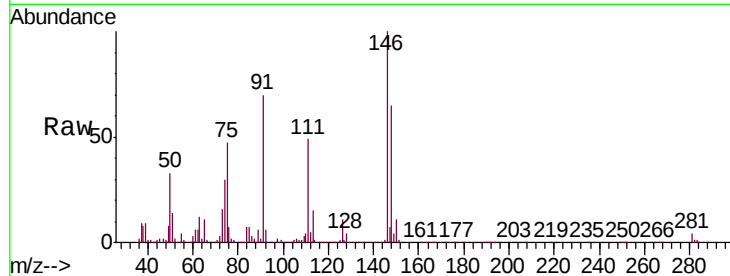
Tgt Ion:146 Resp: 1401249

Ion Ratio Lower Upper

146 100

111 48.1 24.5 73.5

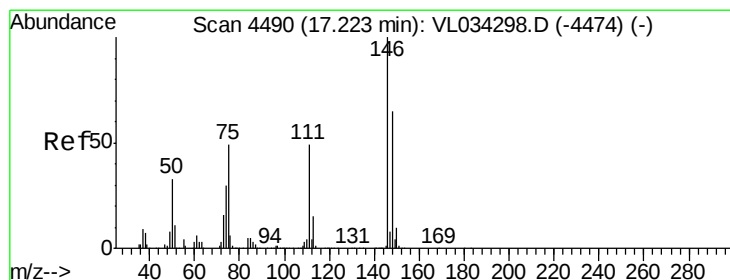
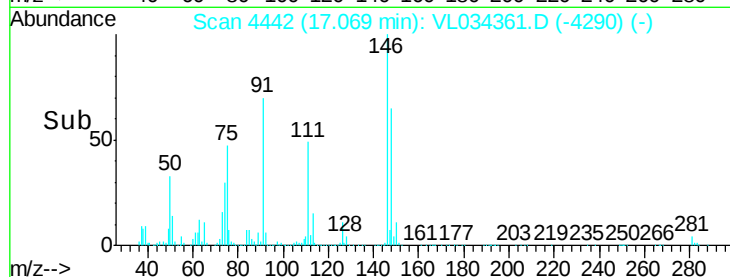
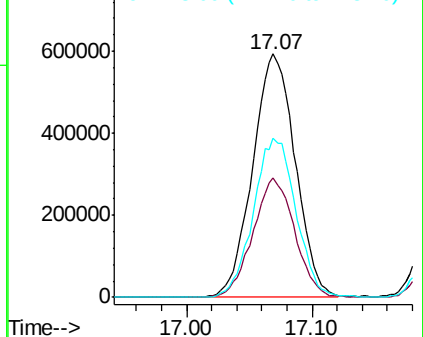
148 65.2 32.3 96.8



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: 8.280 ppbv

RT: 17.21 min Scan# 4487

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

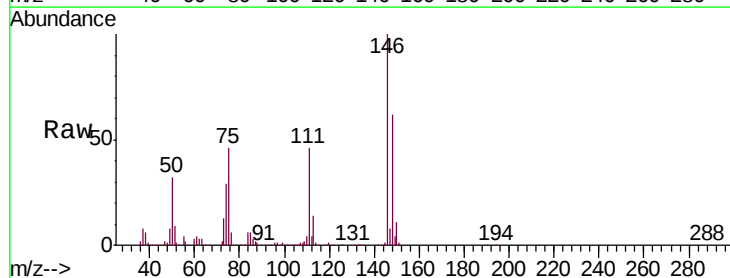
Tgt Ion:146 Resp: 1415649

Ion Ratio Lower Upper

146 100

111 46.8 23.9 71.7

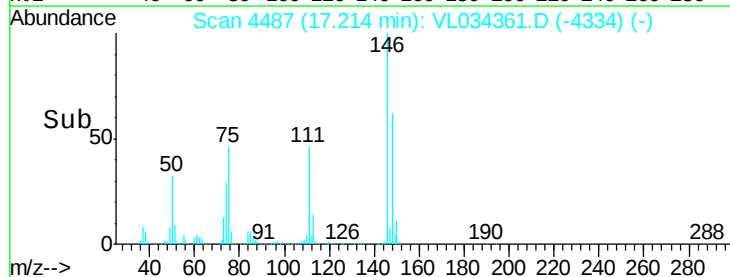
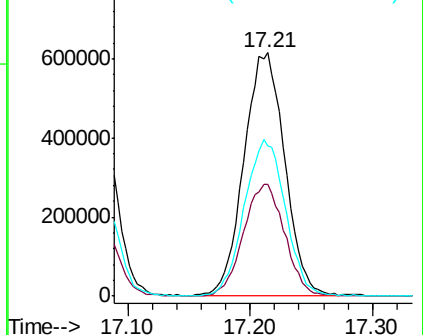
148 65.3 33.1 99.2

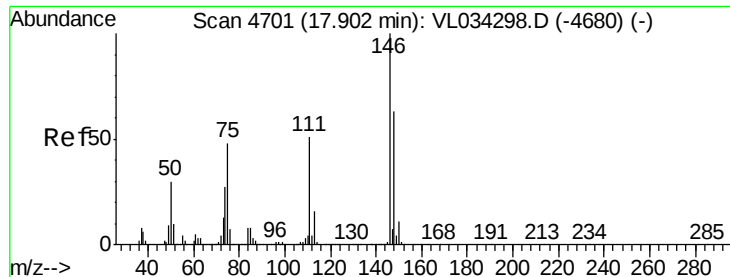


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.934 ppbv

RT: 17.90 min Scan# 4699

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

Instrument :

MSVOA_L

ClientSampleId :

VL1025ABS01

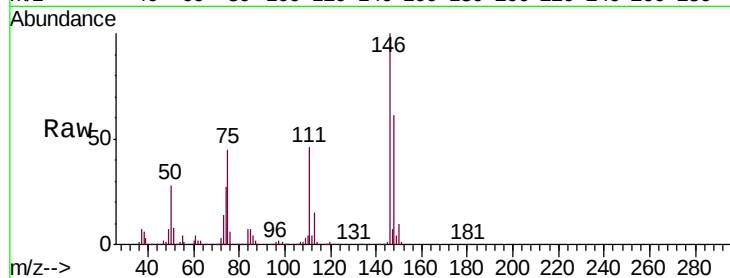
Tgt Ion:146 Resp: 1361410

Ion Ratio Lower Upper

146 100

111 49.5 25.1 75.3

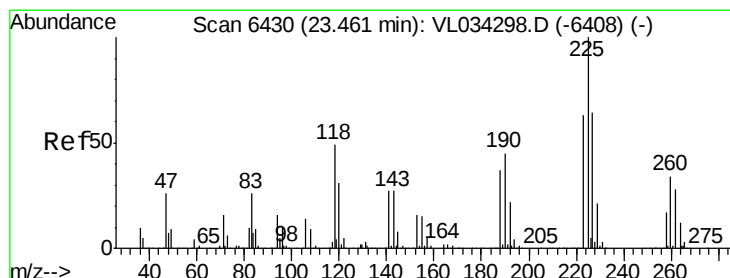
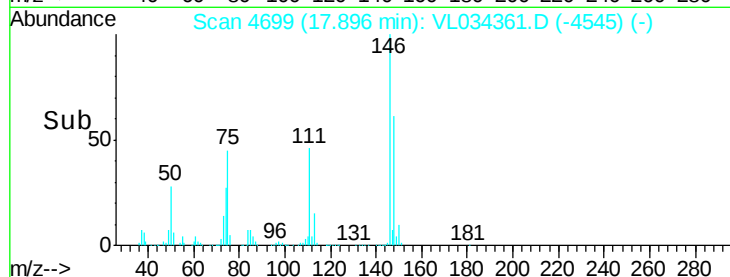
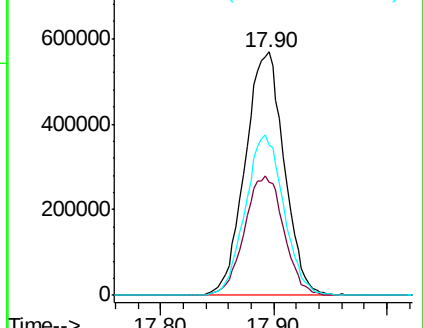
148 65.2 32.3 96.8



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: 8.801 ppbv

RT: 23.45 min Scan# 6426

Delta R.T. -0.01 min

Lab File: VL034361.D

Acq: 25 Oct 2019 12:29

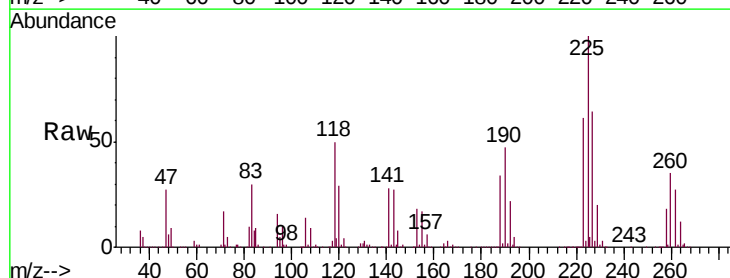
Tgt Ion:225 Resp: 1249308

Ion Ratio Lower Upper

225 100

223 63.0 50.8 76.2

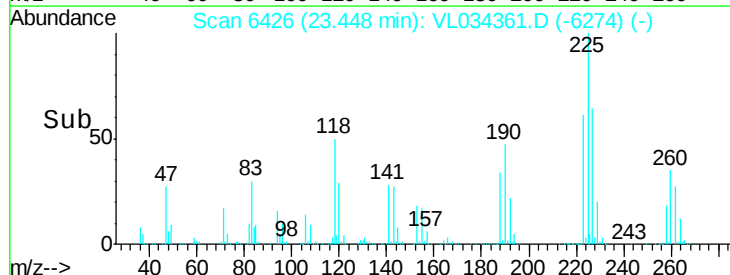
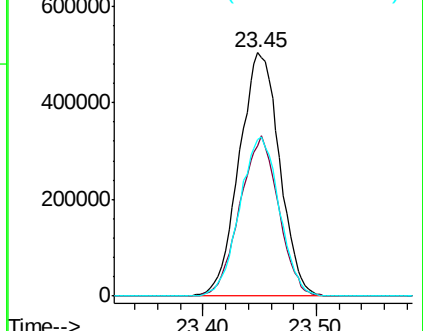
227 64.5 51.5 77.3

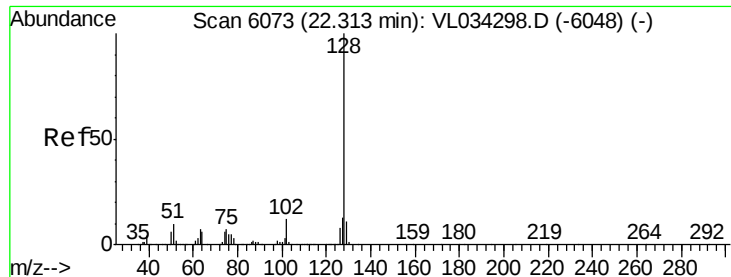


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

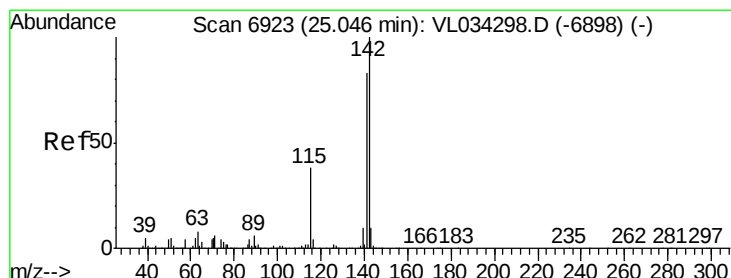
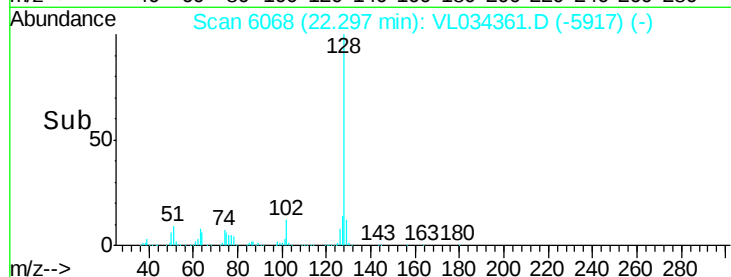
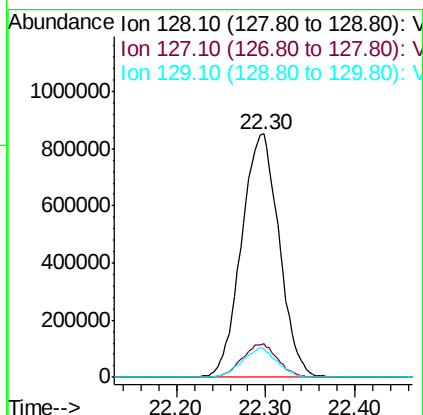
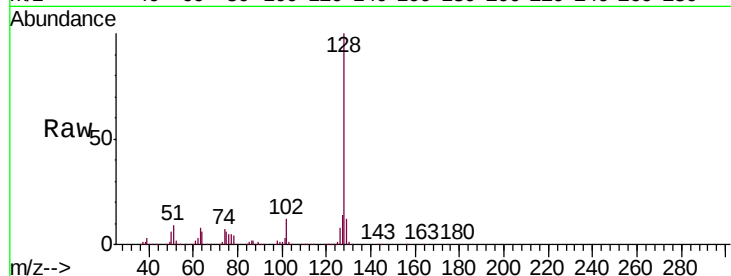




#79
Naphthalene
Concen: 11.737 ppbv
RT: 22.30 min Scan# 6068
Delta R.T. -0.02 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

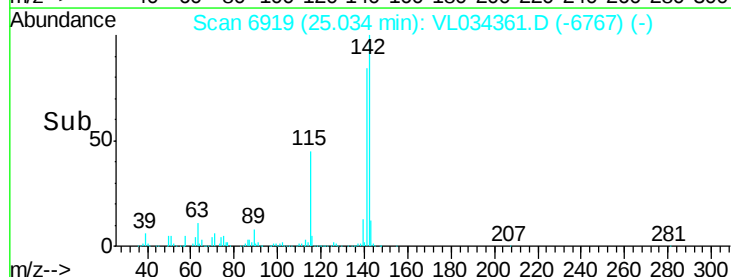
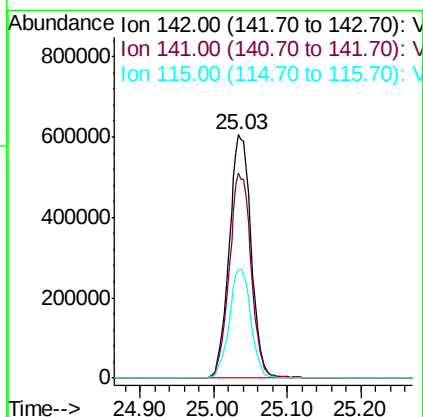
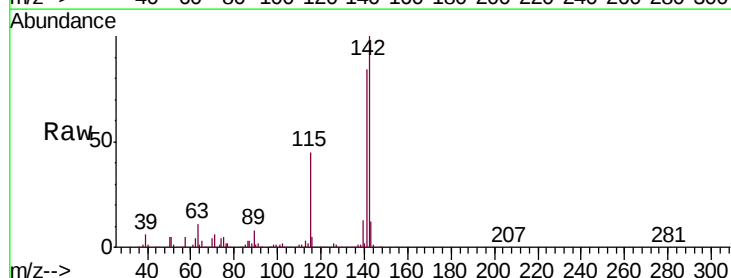
Instrument :
MSVOA_L
ClientSampleId :
VL1025ABS01

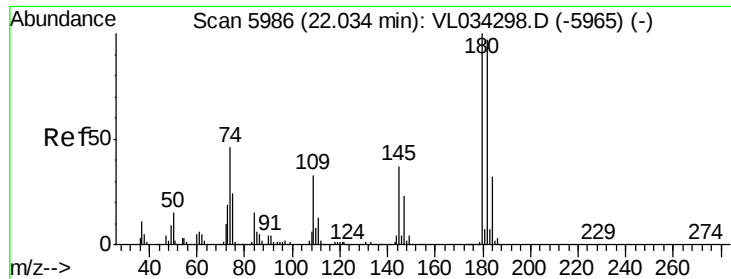
Tgt Ion:128 Resp: 2499396
Ion Ratio Lower Upper
128 100
127 13.9 10.2 15.4
129 11.6 8.9 13.3



#80
Naphthalene, 2-methyl-
Concen: 20.267 ppbv
RT: 25.03 min Scan# 6919
Delta R.T. -0.01 min
Lab File: VL034361.D
Acq: 25 Oct 2019 12:29

Tgt Ion:142 Resp: 1247518
Ion Ratio Lower Upper
142 100
141 84.1 65.7 98.5
115 44.2 30.9 46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.351 ppbv
 RT: 22.02 min Scan# 5982
 Delta R.T. -0.01 min
 Lab File: VL034361.D
 Acq: 25 Oct 2019 12:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1025ABS01

Tgt Ion:180 Resp: 1439695
 Ion Ratio Lower Upper
 180 100
 182 95.9 77.8 116.8
 184 31.3 25.4 38.2

