

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033200.D
 Acq On : 14 Feb 2019 14:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Feb 15 04:21:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	908025	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2095705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2248676	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1735686	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1227394	7.070	ppbv	96
3) Chlorodifluoromethane	3.01	51	1176340	10.759	ppbv	97
4) Chloromethane	3.17	50	625238	10.830	ppbv	94
5) Vinyl Chloride	3.29	62	606162	10.048	ppbv	99
6) Bromomethane	3.51	94	358877	10.832	ppbv	95
7) Chloroethane	3.60	64	215315	10.926	ppbv	93
8) Dichlorotetrafluoroethane	3.22	85	1386616	10.213	ppbv	98
9) Propene	3.03	41	540384	10.231	ppbv	99
10) Heptane	8.25	43	1332676	8.340	ppbv	99
11) Trichlorofluoromethane	4.00	101	1514223	10.774	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	985698	10.120	ppbv	100
13) Ethanol	3.64	45	128734	7.309	ppbv	99
14) Bromoethene	3.78	108	440361	10.485	ppbv	97
15) Acetone	3.89	43	1016773	9.939	ppbv	100
16) 1,3-Butadiene	3.36	39	484426	9.976	ppbv	92
17) tert-Butyl alcohol	4.35	59	228163	11.698	ppbv	96
18) 1,1-Dichloroethene	4.35	96	463318	10.626	ppbv	92
19) Isopropyl Alcohol	4.02	45	793255	11.433	ppbv	100
20) Methylene Chloride	4.40	84	393934	9.681	ppbv	98
21) Allyl Chloride	4.47	41	718893	10.643	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	456477	10.780	ppbv	98
23) Vinyl Acetate	5.15	43	1891032	10.666	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1282505	10.227	ppbv	98
25) Ethyl Acetate	5.76	43	2177201	9.465	ppbv	100
26) Hexane	5.78	57	993652	9.202	ppbv	99
27) Carbon Disulfide	4.62	76	1089948	11.018	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1513959	10.260	ppbv	100
29) Chloroform	5.85	83	1582292m	9.562	ppbv	
30) Cyclohexane	7.24	84	850792	8.492	ppbv	95
31) cis-1,2-Dichloroethene	5.64	61	1055668	9.768	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1540087	8.452	ppbv	97
34) 2-Butanone	5.32	43	1498308	11.271	ppbv	99
35) Carbon Tetrachloride	7.13	117	1576130	9.848	ppbv	90
36) Benzene	7.00	78	2047020	9.638	ppbv	# 95
37) 1,2-Dichloroethane	6.41	62	1268057	10.773	ppbv	100
38) Trichloroethene	7.96	130	763676	8.396	ppbv	95
39) 1,2-Dichloropropane	7.73	63	794916	9.477	ppbv	95
40) 1,4-Dioxane	7.95	88	300268	9.850	ppbv	87
41) Tetrahydrofuran	6.14	42	849073	10.319	ppbv	97
42) Bromodichloromethane	7.92	83	1782801	10.452	ppbv	99
43) Methyl Methacrylate	8.14	69	866422	10.161	ppbv	98

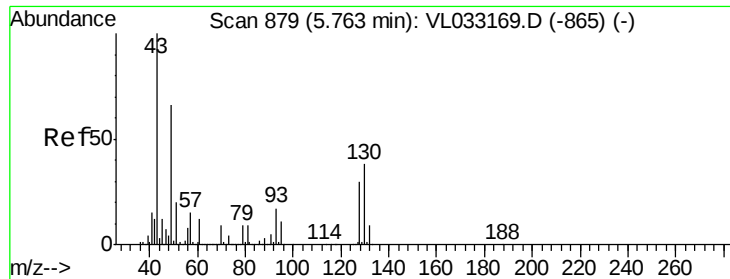
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
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 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3488002	9.691	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1153981	12.182	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	1307511	10.836	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	852986	9.799	ppbv	95
48) Dibromochloromethane	10.45	129	1525234	11.130	ppbv	95
49) Bromoform	13.21	173	1282947	10.881	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2162048	10.143	ppbv	98
51) 2-Hexanone	10.26	43	1726036m	10.270	ppbv	
52) Tetrachloroethene	11.37	164	740396	9.073	ppbv	97
53) Toluene	9.95	91	2421297	9.627	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1395089	10.220	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	1001652	9.705	ppbv #	63
57) Chlorobenzene	12.30	112	1713989	8.731	ppbv	99
58) Ethyl Benzene	12.86	91	3319280	9.121	ppbv	98
59) m/p-Xylene	13.15	91	5519780m	18.174	ppbv	
60) o-Xylene	13.85	91	2634077	8.918	ppbv	99
61) Styrene	13.69	104	2016982	9.054	ppbv	99
62) Isopropylbenzene	14.83	105	3738530	8.974	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1834807	7.908	ppbv	99
64) n-propylbenzene	15.72	120	950958	8.981	ppbv	97
65) tert-Butylbenzene	16.91	119	3237665	8.924	ppbv	98
66) Benzyl Chloride	17.16	91	1637750	12.715	ppbv	99
67) sec-Butylbenzene	17.46	105	4720618	8.963	ppbv	99
69) p-Isopropyltoluene	17.82	119	3862461	8.805	ppbv	99
70) n-Butylbenzene	18.71	91	4144817	8.757	ppbv	100
71) 2-Chlorotoluene	15.62	91	2922047	8.927	ppbv	100
72) 4-Ethyltoluene	16.00	105	3111395	9.140	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2980832	9.155	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2990646	8.851	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1726349	8.860	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1748917	9.063	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1731794	8.995	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1233553	12.871	ppbv	100
79) Naphthalene	22.42	128	3016264	8.309	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	1260216	6.856	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1504246	8.155	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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VSTDCCC010

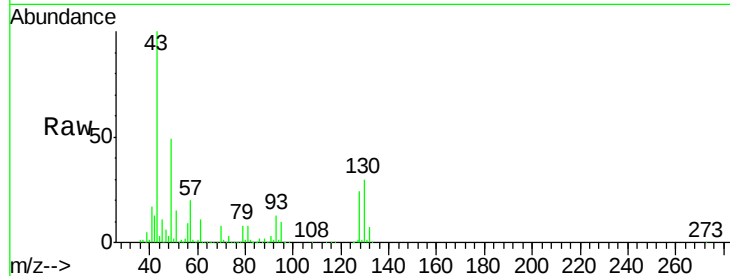
Tot Ion: 49 Resp: 908025

Ion Ratio Lower Upper

49 100

128 48.3 23.6 71.0

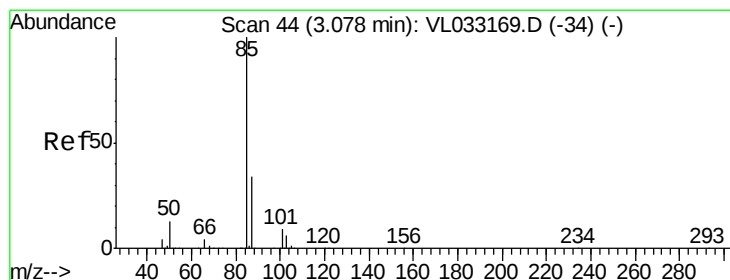
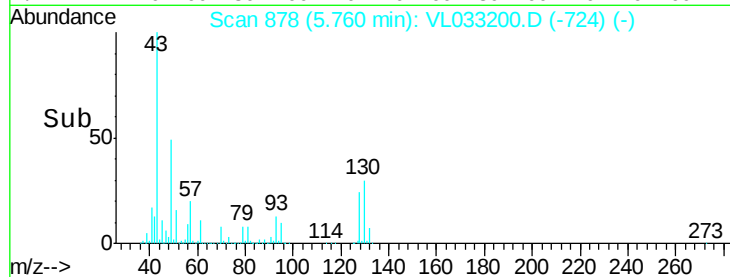
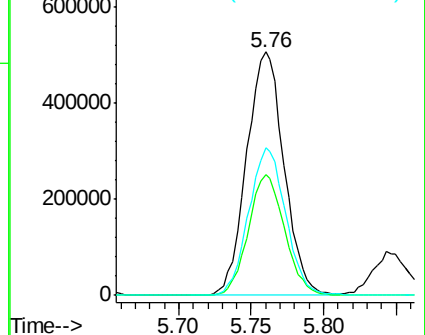
130 60.3 30.3 91.0



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: 7.070 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033200.D

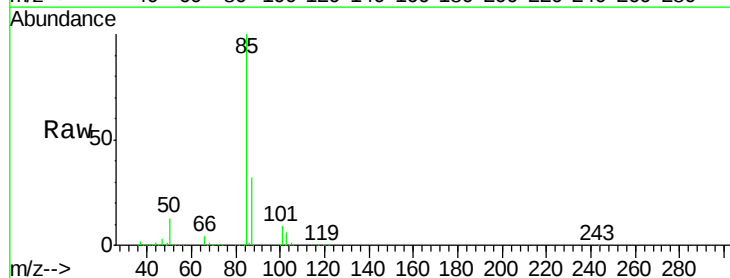
Acq: 14 Feb 2019 14:49

Tgt Ion: 85 Resp: 1227394

Ion Ratio Lower Upper

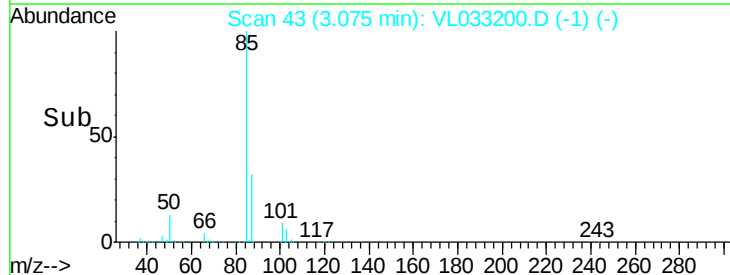
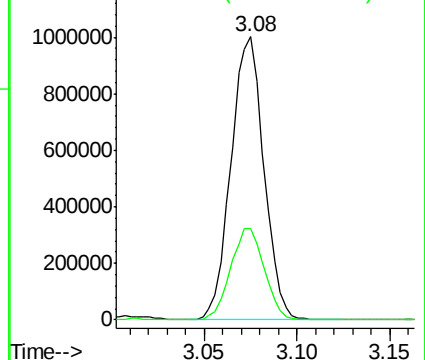
85 100

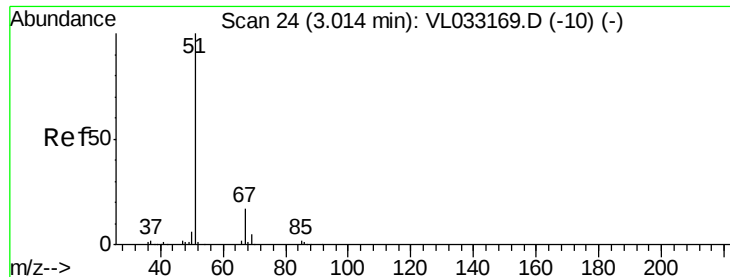
87 32.1 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.759 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

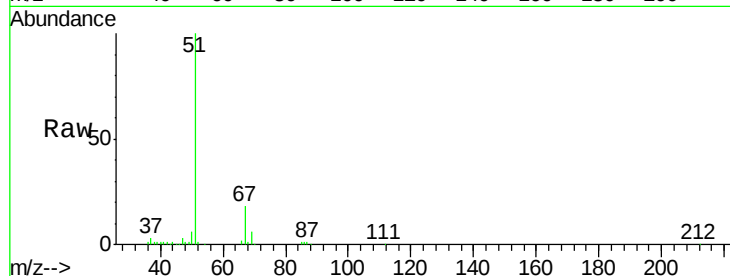
VSTDCCC010

Tot Ion: 51 Resp: 1176340

Ion Ratio Lower Upper

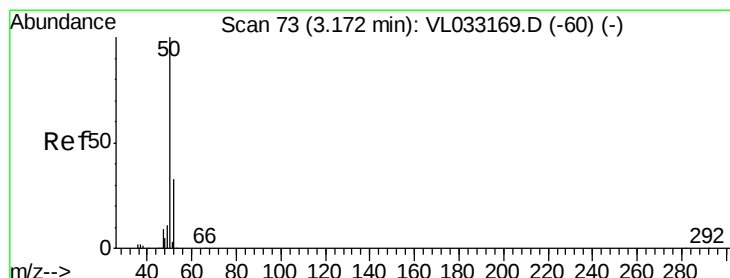
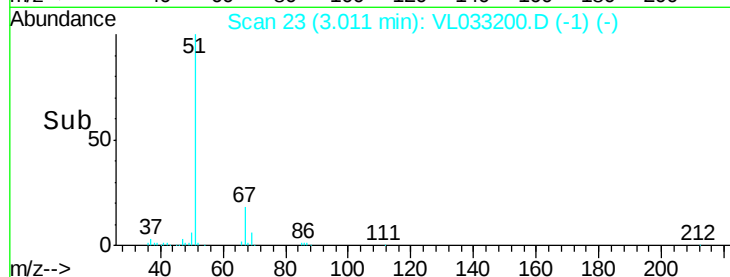
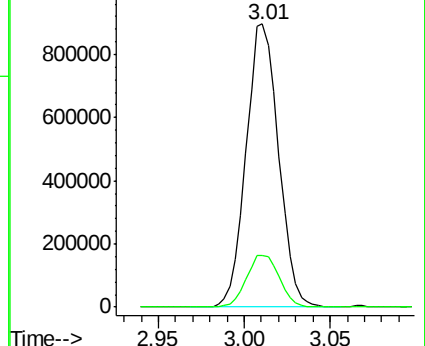
51 100

67 18.8 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.830 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033200.D

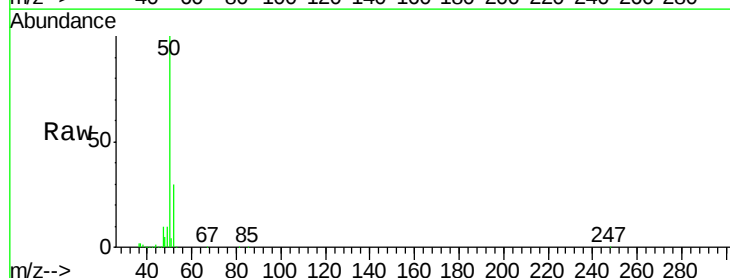
Acq: 14 Feb 2019 14:49

Tgt Ion: 50 Resp: 625238

Ion Ratio Lower Upper

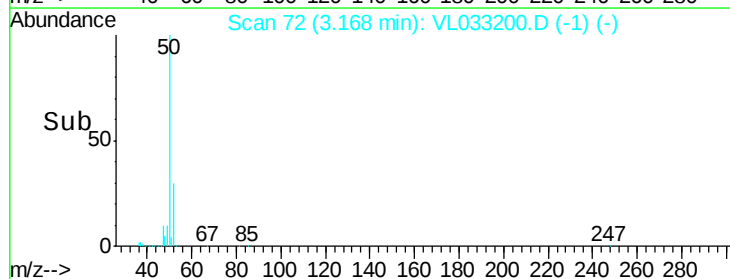
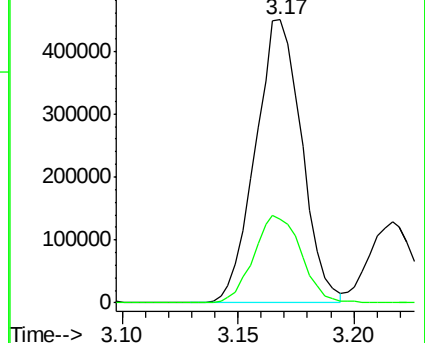
50 100

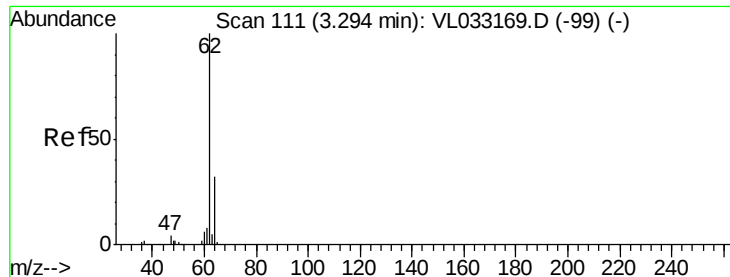
52 29.5 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.048 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

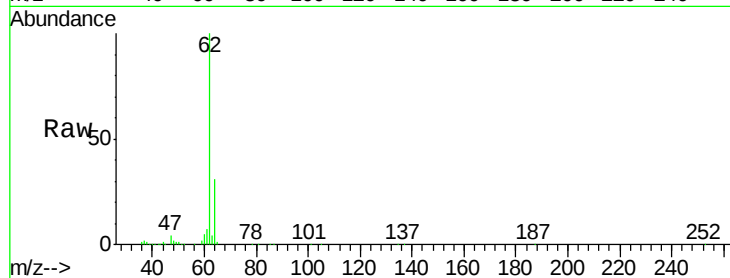
VSTDCCC010

Tot Ion: 62 Resp: 606162

Ion Ratio Lower Upper

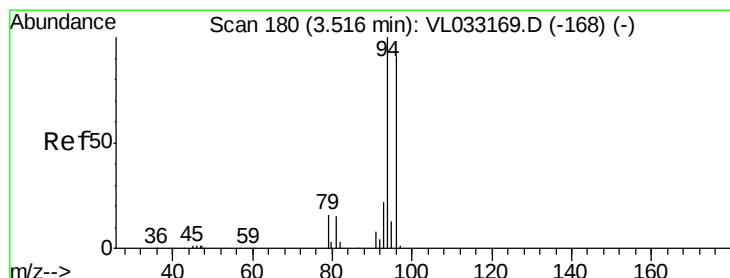
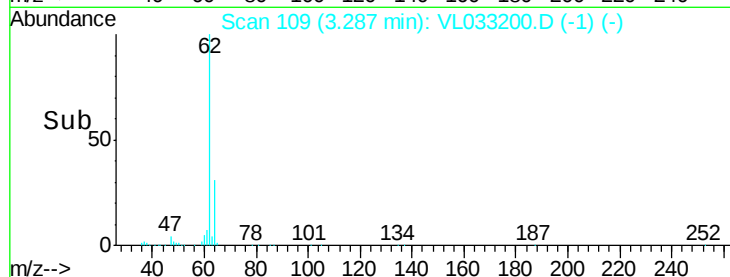
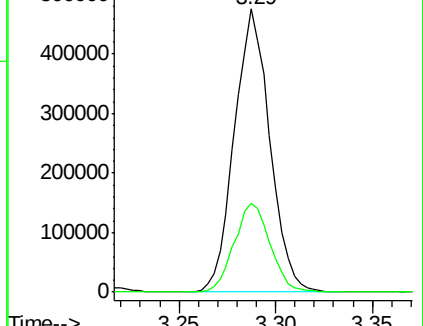
62 100

64 31.2 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.832 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033200.D

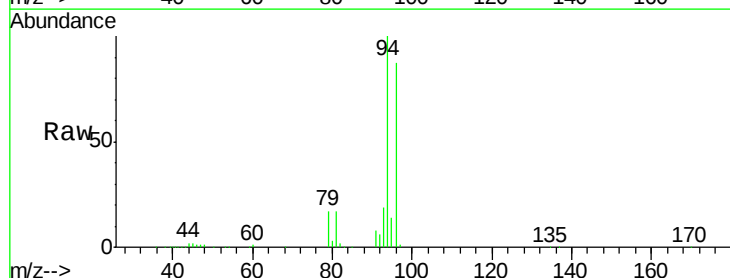
Acq: 14 Feb 2019 14:49

Tgt Ion: 94 Resp: 358877

Ion Ratio Lower Upper

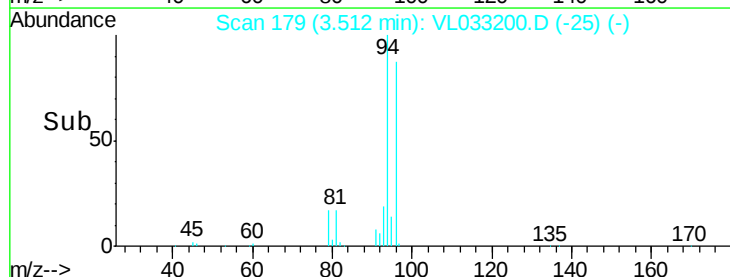
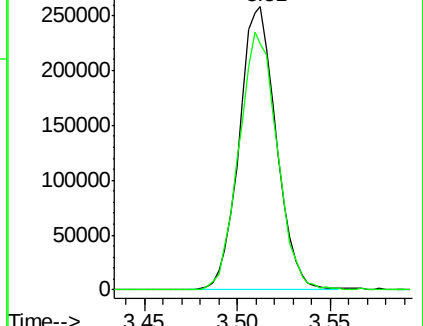
94 100

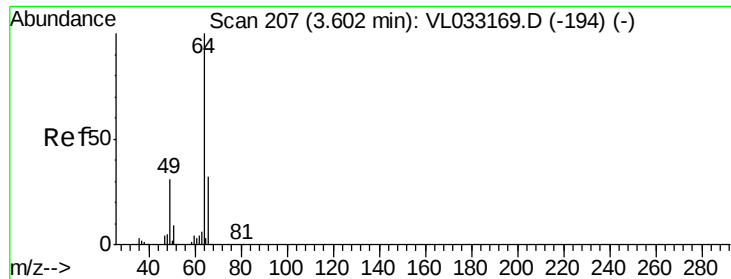
96 86.9 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.926 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

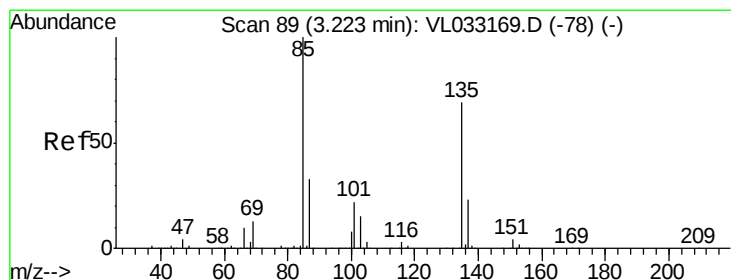
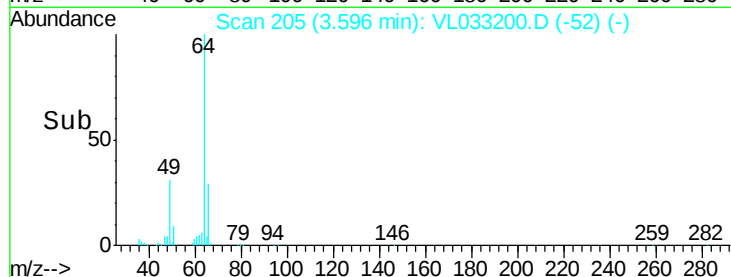
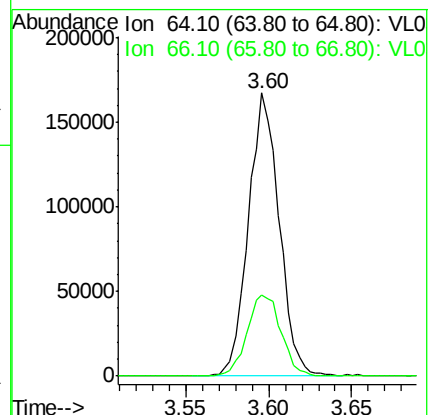
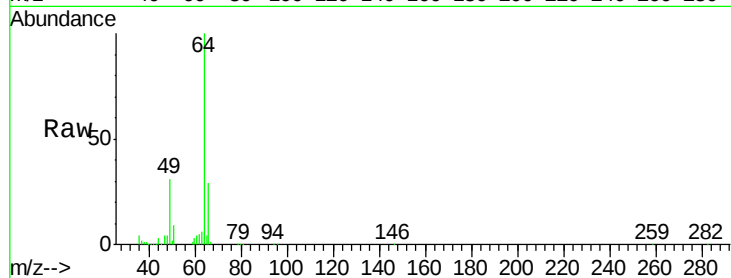
VSTDCCC010

Tot Ion: 64 Resp: 215315

Ion Ratio Lower Upper

64 100

66 28.7 26.0 39.0



#8

Dichlorotetrafluoroethane

Concen: 10.213 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033200.D

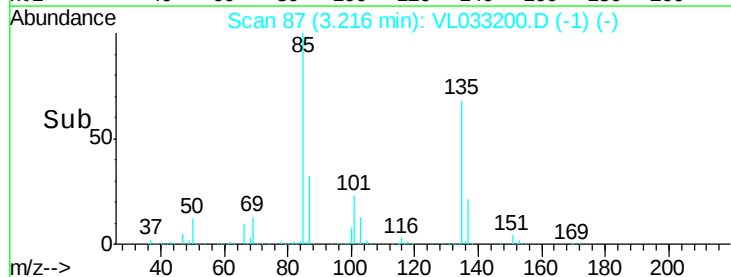
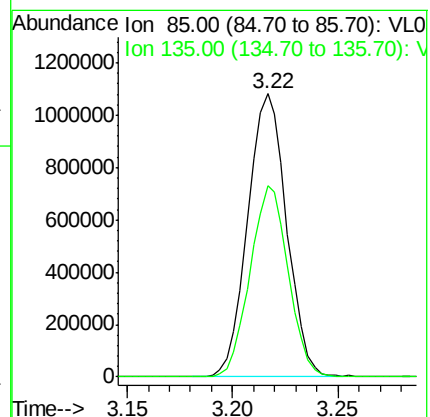
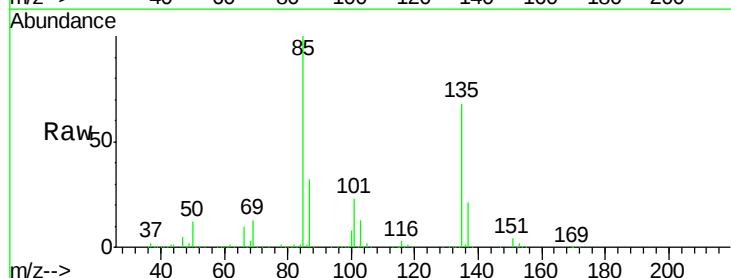
Acq: 14 Feb 2019 14:49

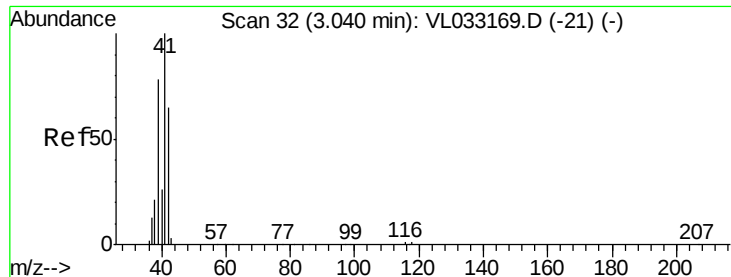
Tgt Ion: 85 Resp: 1386616

Ion Ratio Lower Upper

85 100

135 66.6 54.3 81.5





#9

Propene

Concen: 10.231 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

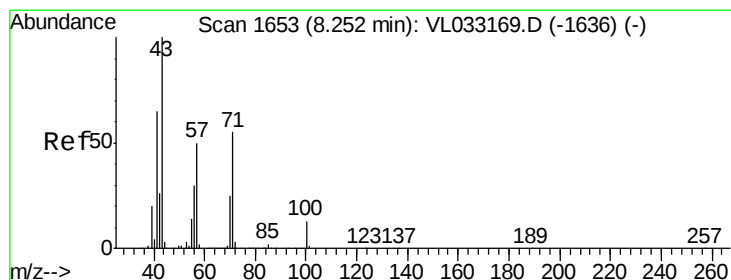
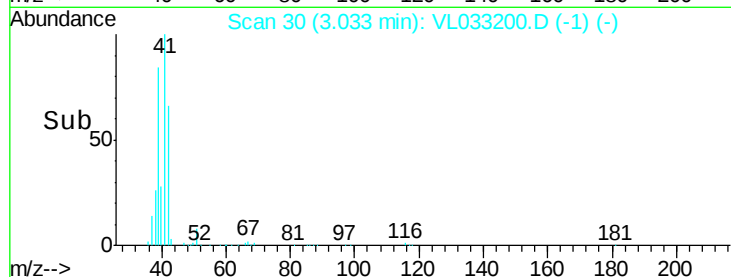
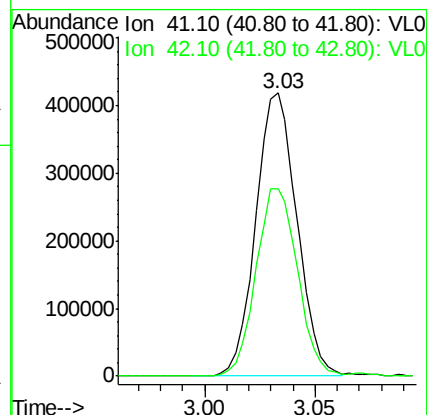
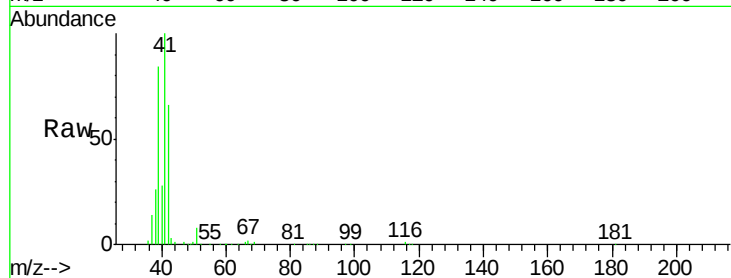
VSTDCCC010

Tot Ion: 41 Resp: 540384

Ion Ratio Lower Upper

41 100

42 67.7 55.0 82.6



#10

Heptane

Concen: 8.340 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033200.D

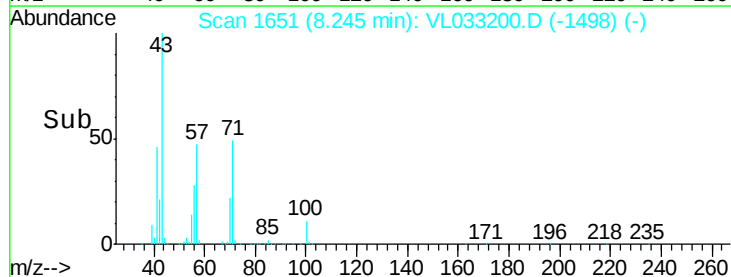
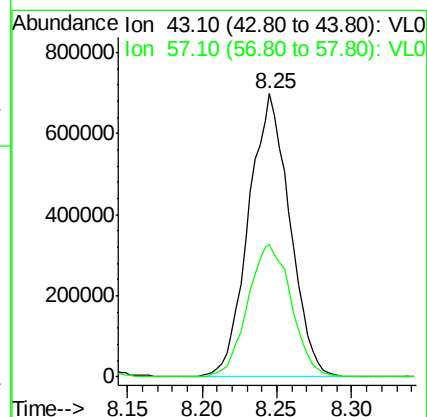
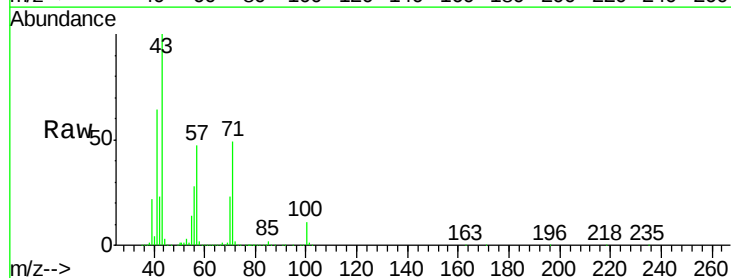
Acq: 14 Feb 2019 14:49

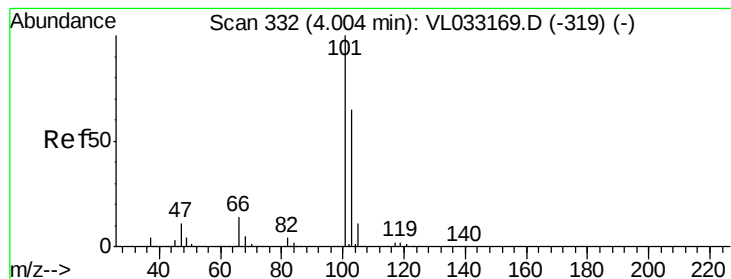
Tgt Ion: 43 Resp: 1332676

Ion Ratio Lower Upper

43 100

57 49.8 39.5 59.3





#11

Trichlorofluoromethane

Concen: 10.774 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

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ClientSampleId :

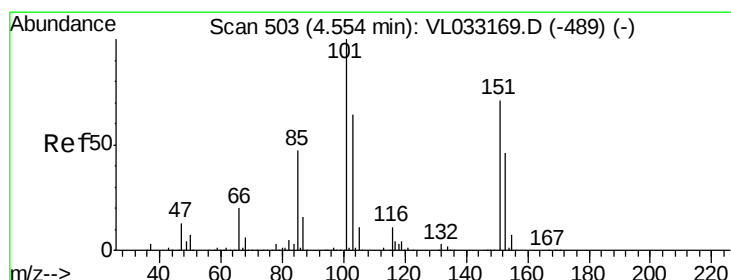
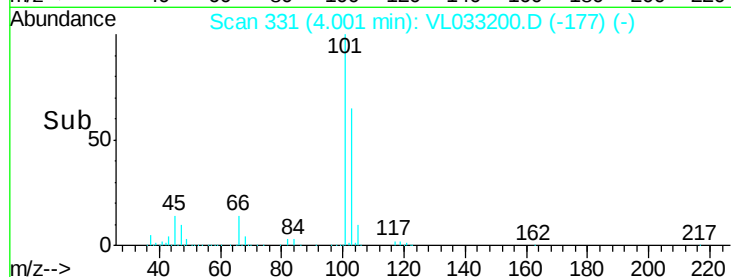
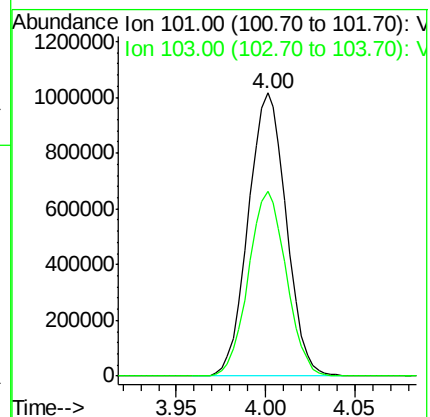
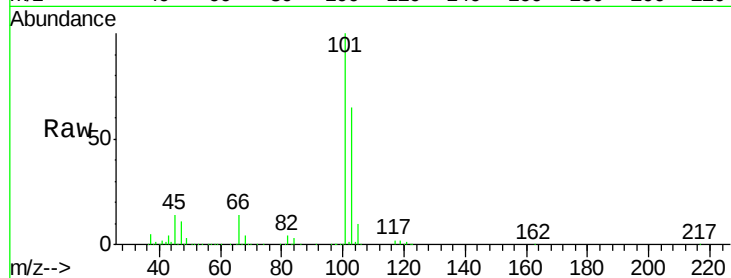
VSTDCCC010

Tot Ion:101 Resp: 1514223

Ion Ratio Lower Upper

101 100

103 65.1 51.7 77.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.120 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033200.D

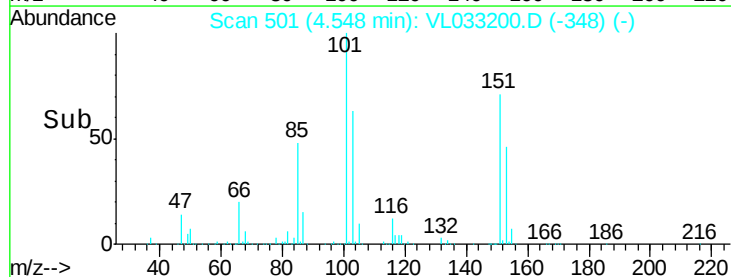
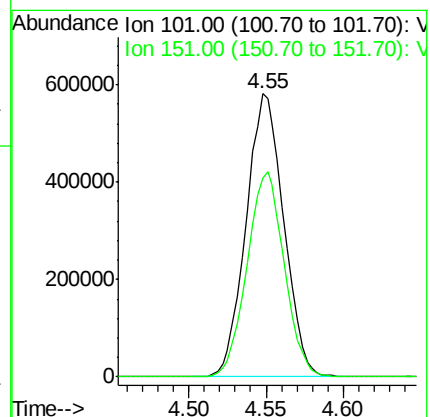
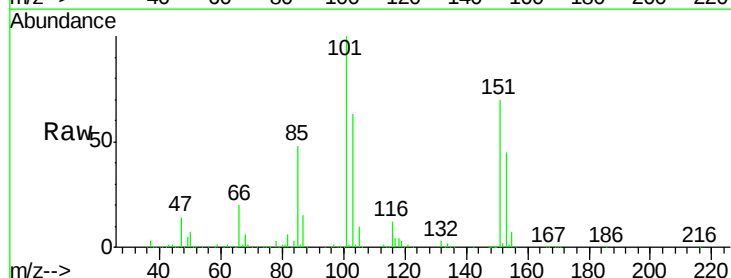
Acq: 14 Feb 2019 14:49

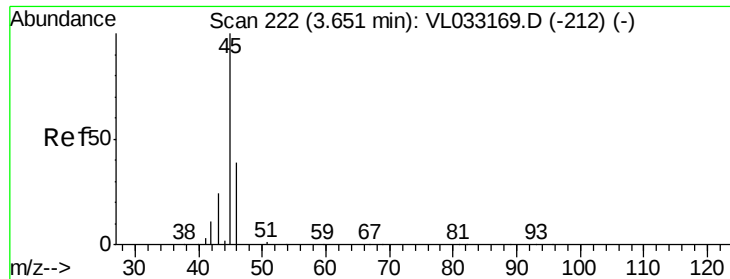
Tgt Ion:101 Resp: 985698

Ion Ratio Lower Upper

101 100

151 71.7 57.4 86.0





#13

Ethanol

Concen: 7.309 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

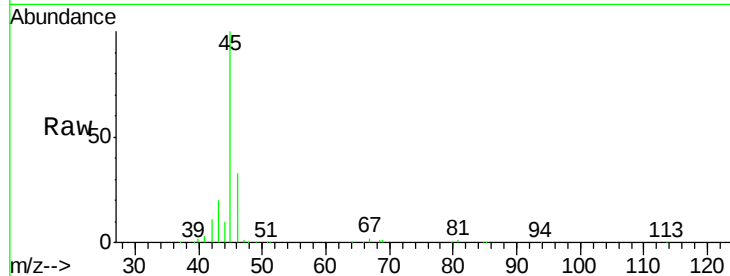
VSTDCCC010

Tot Ion: 45 Resp: 128734

Ion Ratio Lower Upper

45 100

46 37.3 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.64

80000

60000

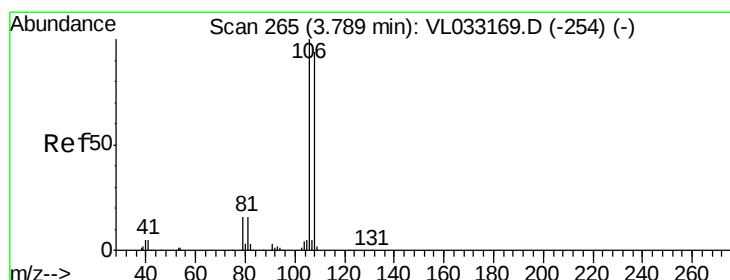
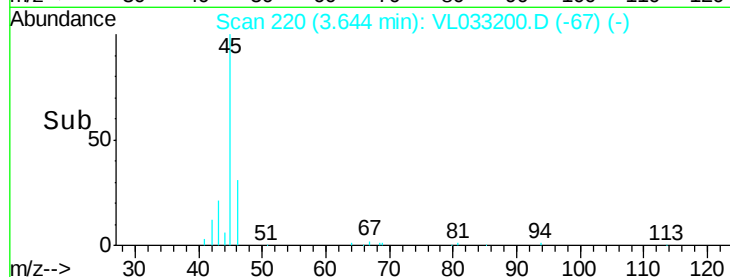
40000

20000

0

Time-->

3.60 3.65 3.70



#14

Bromoethene

Concen: 10.485 ppbv

RT: 3.78 min Scan# 263

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

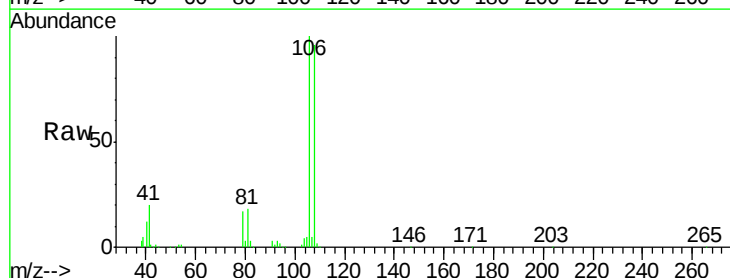
Tgt Ion: 108 Resp: 440361

Ion Ratio Lower Upper

108 100

106 111.2 86.0 129.0

79 18.4 14.5 21.7



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.78

400000

300000

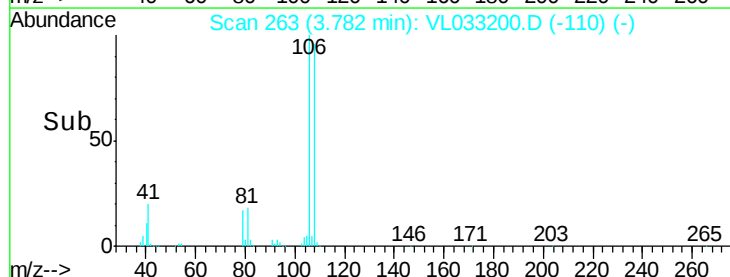
200000

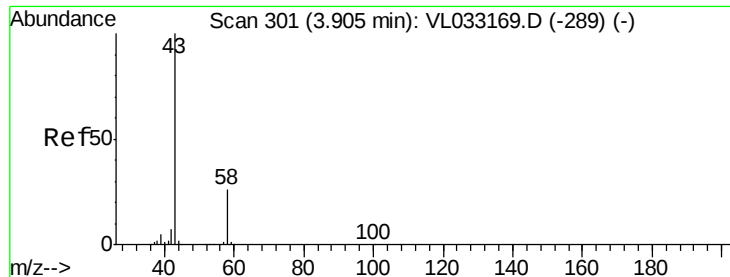
100000

0

Time-->

3.75 3.80 3.85





#15

Acetone

Concen: 9.939 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

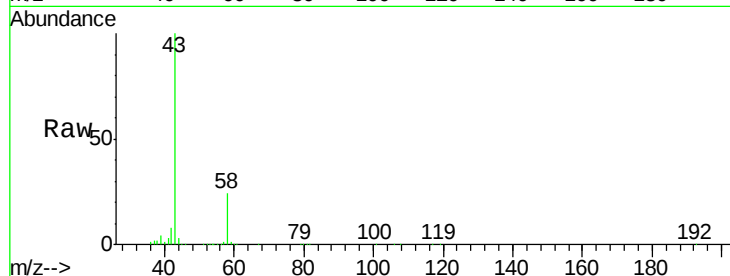
VSTDCCC010

Tot Ion: 43 Resp: 1016773

Ion Ratio Lower Upper

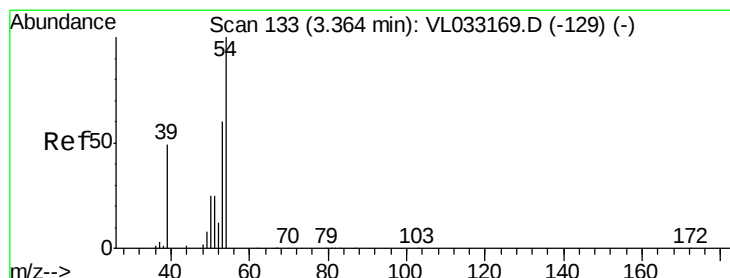
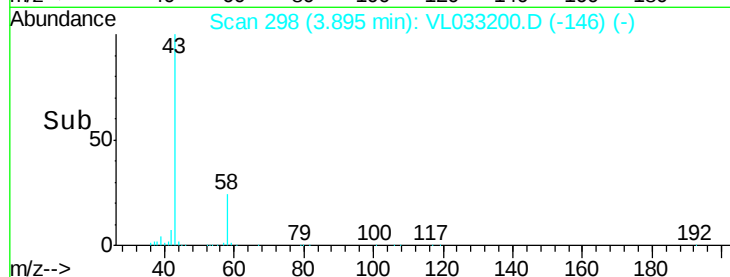
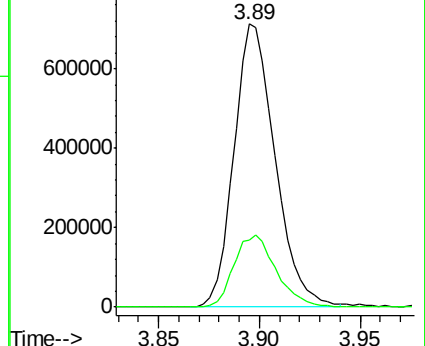
43 100

58 26.4 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.976 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.01 min

Lab File: VL033200.D

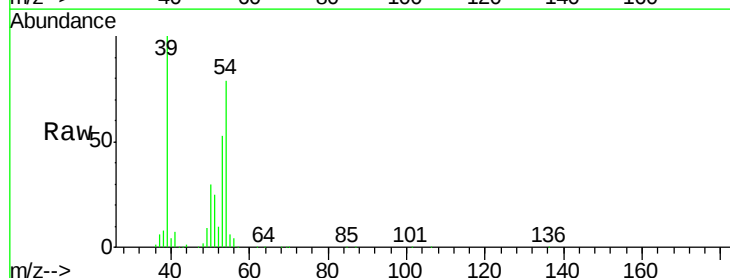
Acq: 14 Feb 2019 14:49

Tgt Ion: 39 Resp: 484426

Ion Ratio Lower Upper

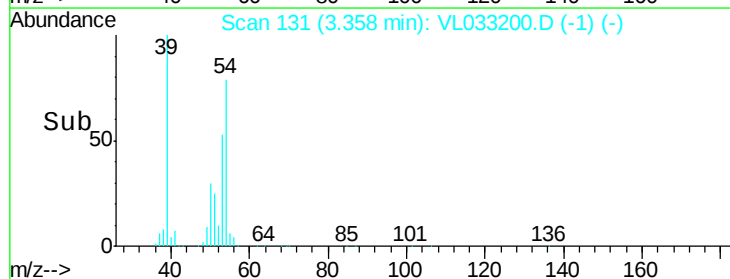
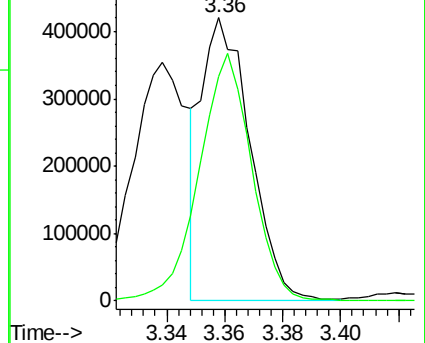
39 100

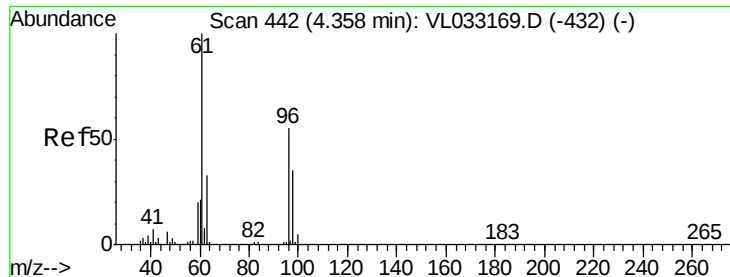
54 96.5 71.3 106.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 11.698 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

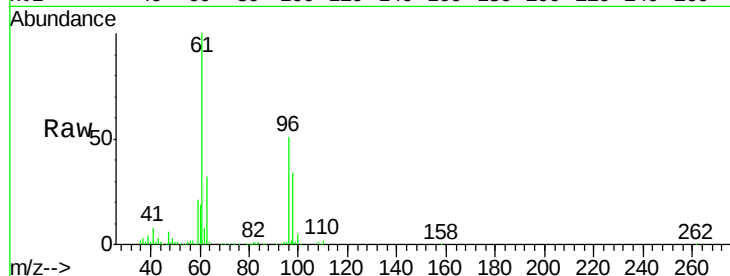
VSTDCCC010

Tot Ion: 59 Resp: 228163

Ion Ratio Lower Upper

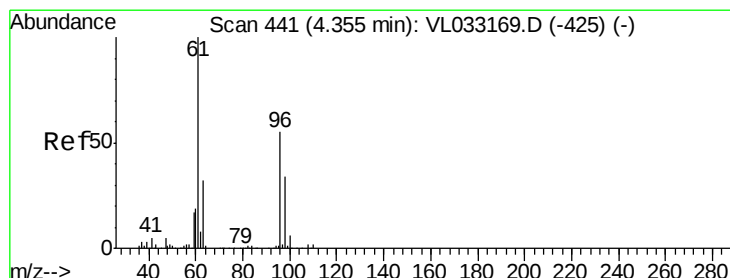
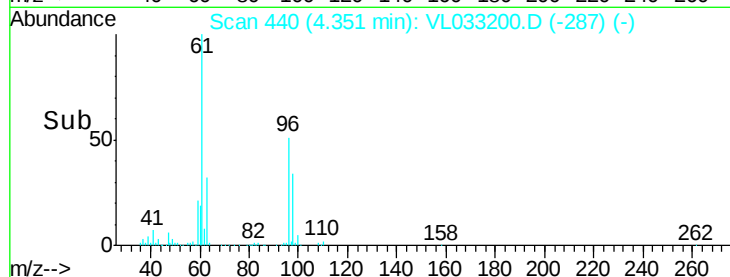
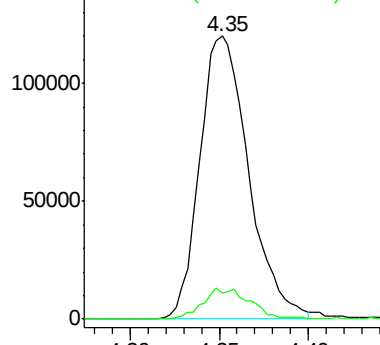
59 100

57 10.8 7.6 11.4



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 10.626 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

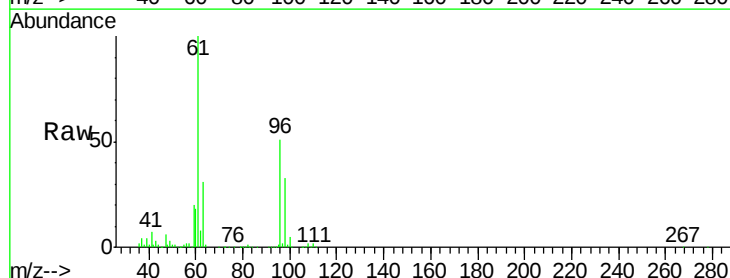
Tgt Ion: 96 Resp: 463318

Ion Ratio Lower Upper

96 100

61 195.8 145.0 217.6

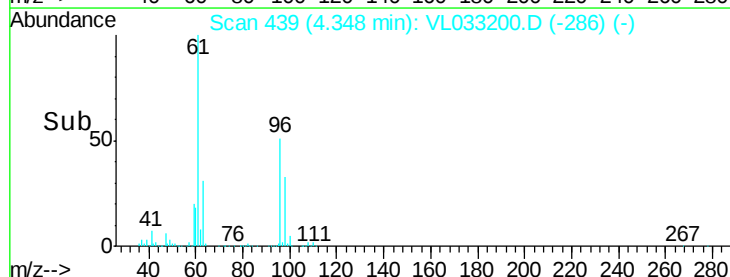
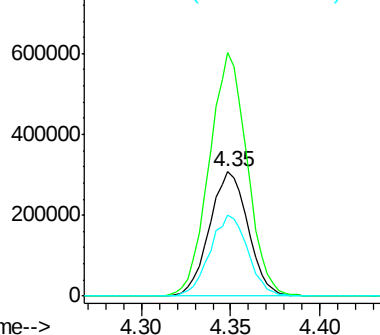
98 65.3 50.0 75.0

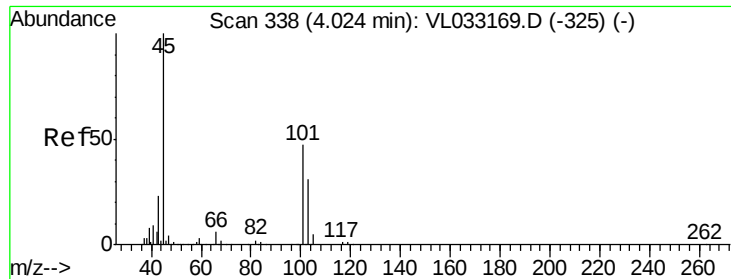


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



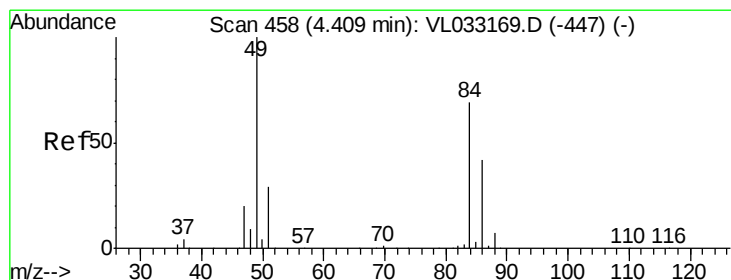
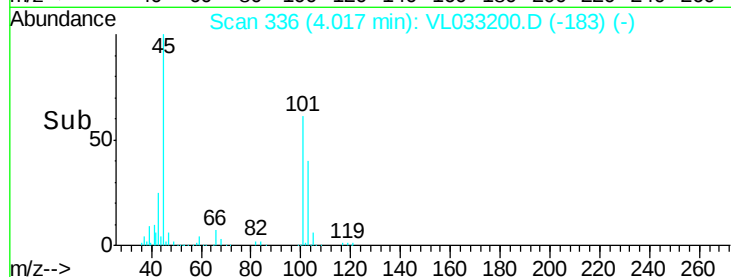
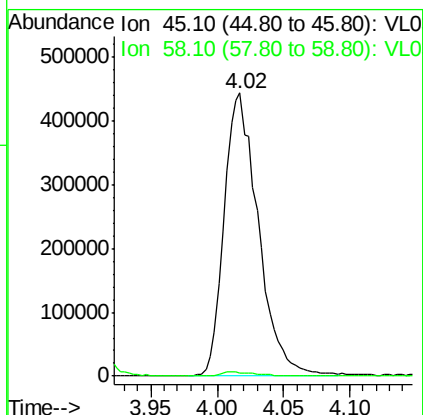
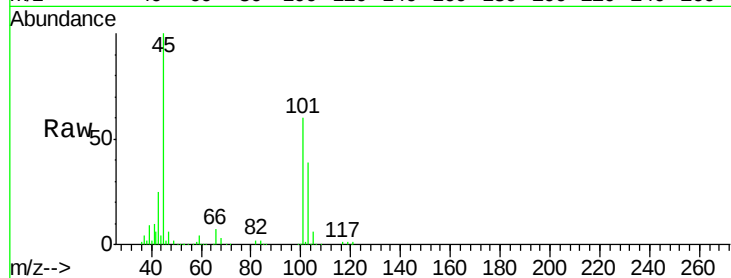


#19

Isopropyl Alcohol
 Concen: 11.433 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

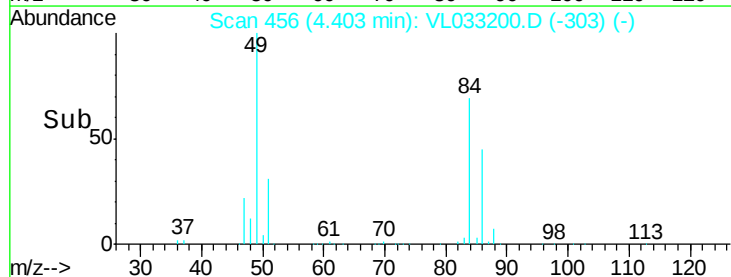
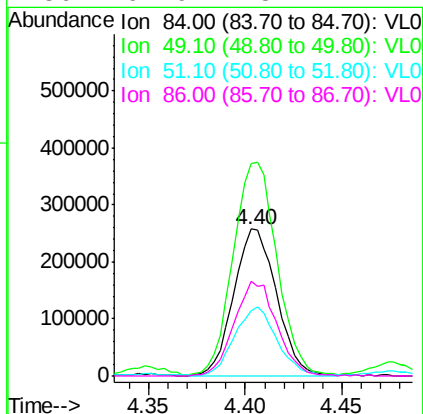
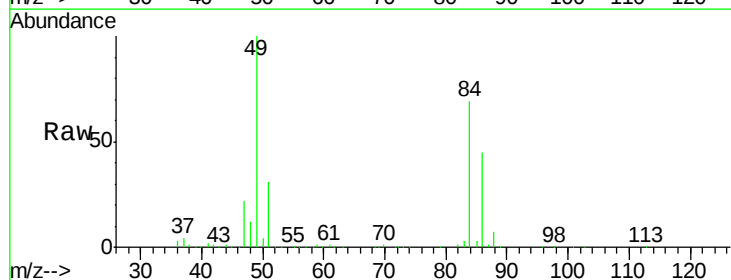
Tot Ion: 45 Resp: 793255
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.5 2.3

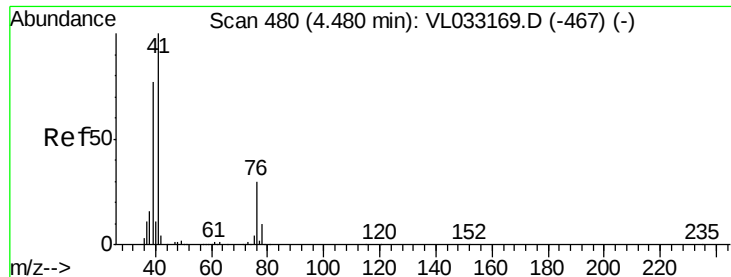


#20

Methylene Chloride
 Concen: 9.681 ppbv
 RT: 4.40 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion: 84 Resp: 393934
 Ion Ratio Lower Upper
 84 100
 49 144.5 115.8 173.8
 51 43.6 33.0 49.6
 86 64.9 48.2 72.2





#21

Allvl Chloride

Concen: 10.643 ppbv

RT: 4.47 min Scan# 478

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

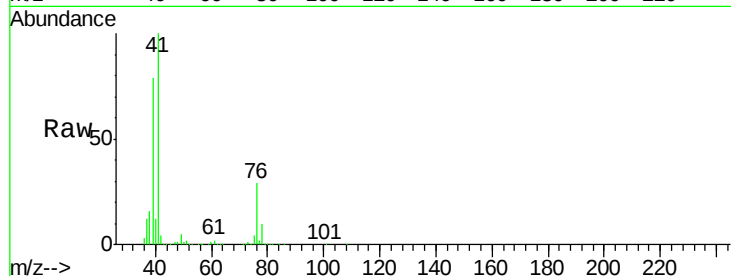
Tot Ion: 41 Resp: 718893

Ion Ratio Lower Upper

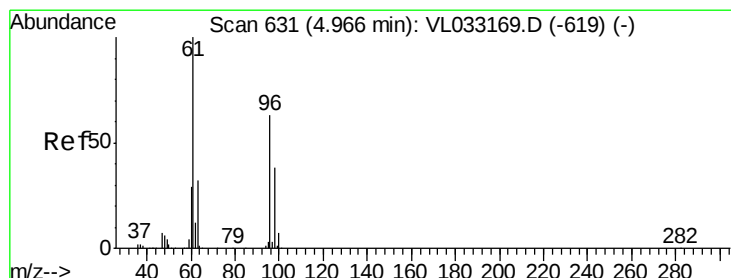
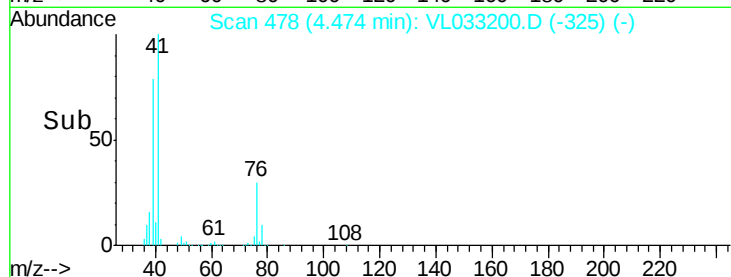
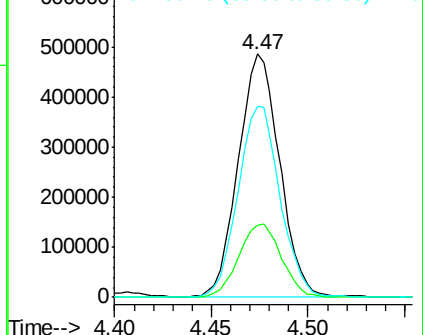
41 100

76 31.4 24.5 36.7

39 80.4 64.1 96.1



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: 10.780 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

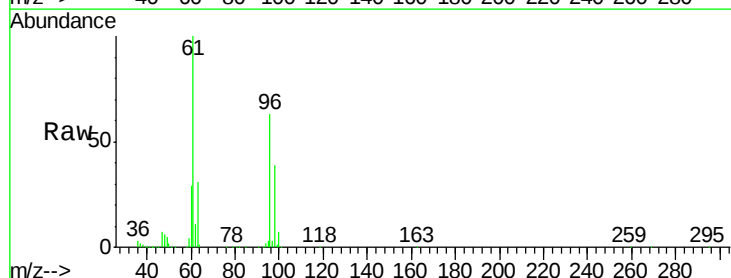
Tgt Ion: 96 Resp: 456477

Ion Ratio Lower Upper

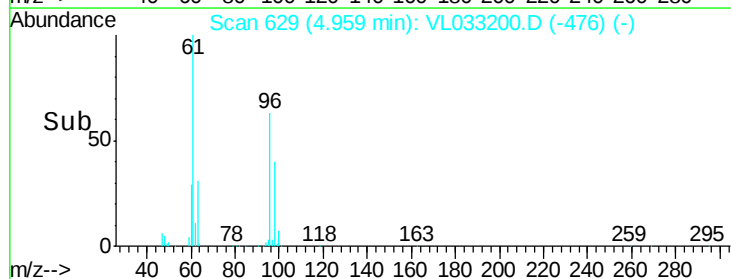
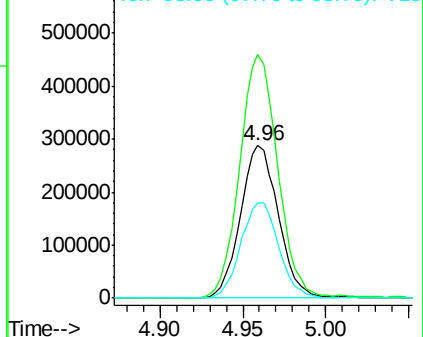
96 100

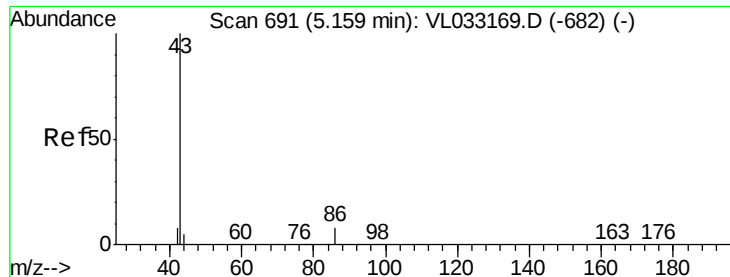
61 159.4 126.4 189.6

98 62.6 48.4 72.6



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





#23

Vinyl Acetate

Concen: 10.666 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1891032

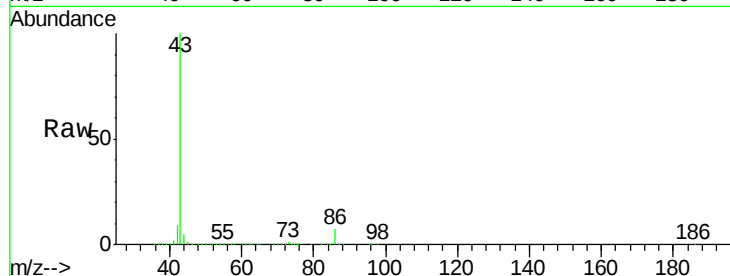
Ion Ratio Lower Upper

43 100

86 6.8 5.8 8.8

42 9.1 7.4 11.0

44 5.1 3.7 5.5

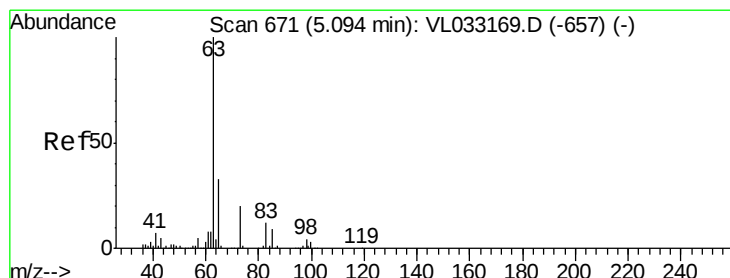
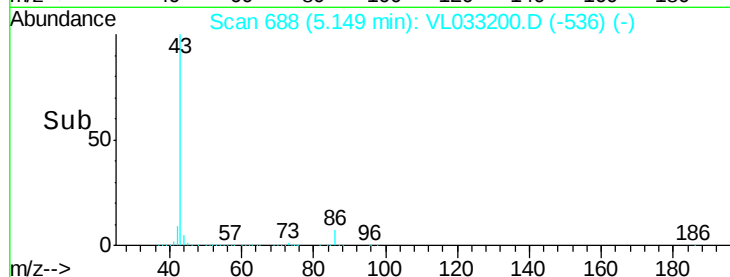
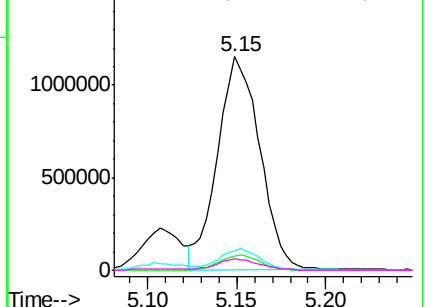


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.227 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

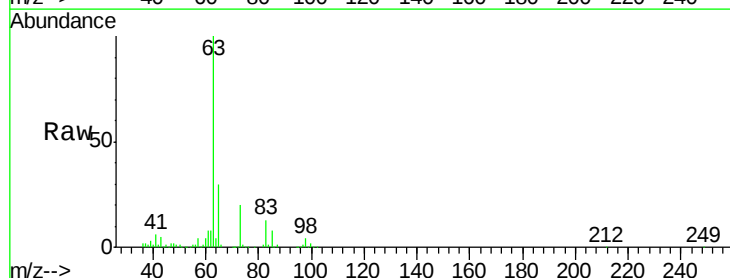
Tgt Ion: 63 Resp: 1282505

Ion Ratio Lower Upper

63 100

98 3.7 2.1 6.5

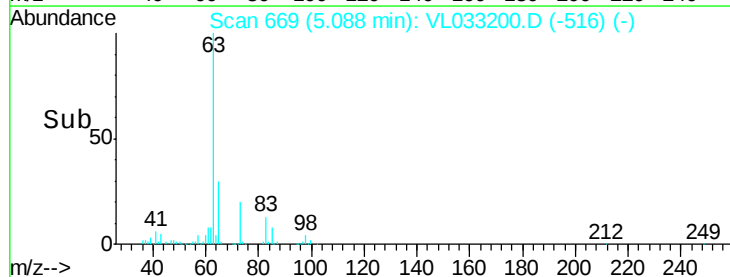
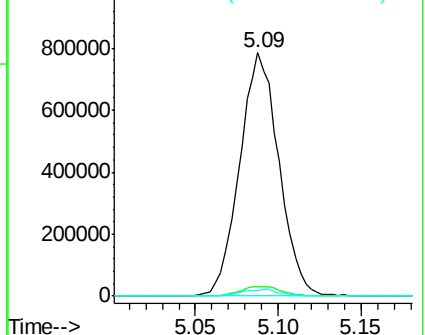
100 2.2 1.4 4.2

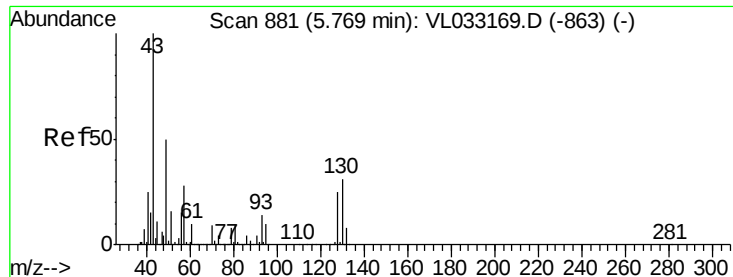


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



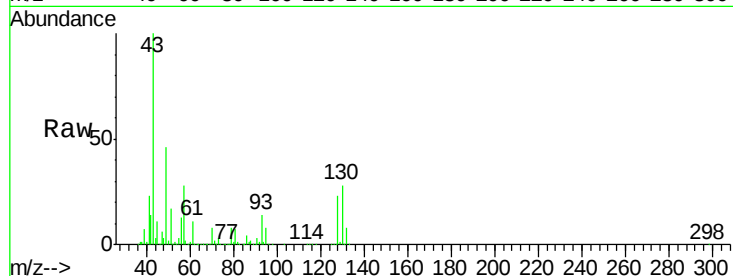


#25
Ethyl Acetate
Concen: 9.465 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 2177201

Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.4	7.5	11.3
70	7.1	5.8	8.8



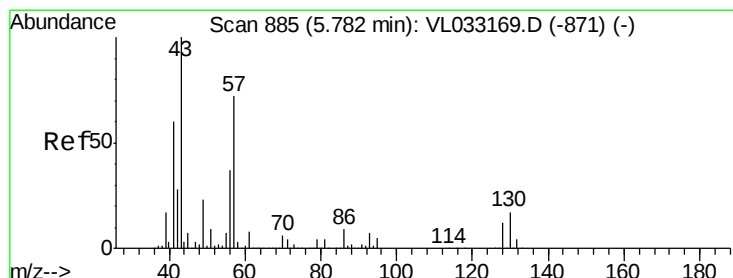
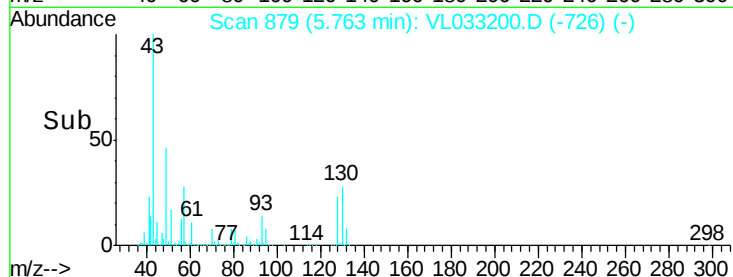
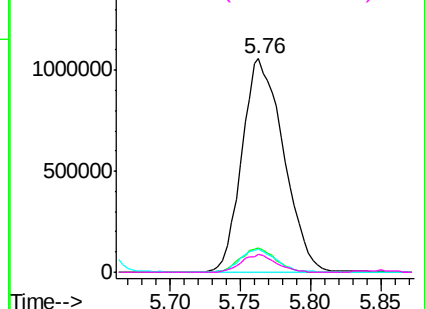
Abundance

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

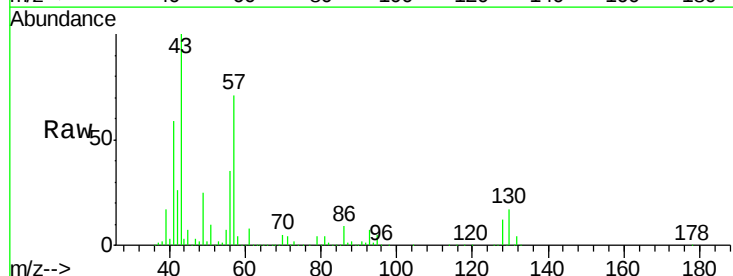
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.202 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Tgt Ion: 57 Resp: 993652

Ion	Ratio	Lower	Upper
57	100		
41	89.8	69.4	104.2
43	220.1	176.7	265.1
56	51.4	41.4	62.0



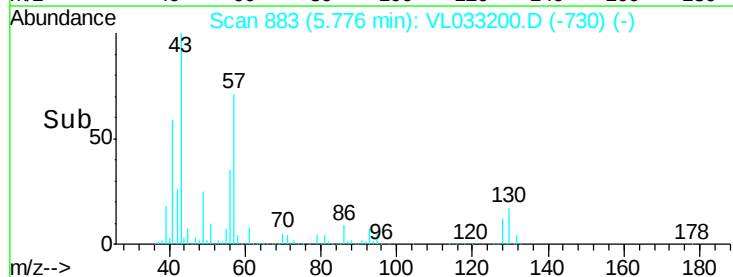
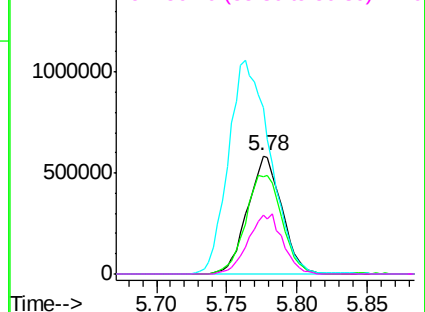
Abundance

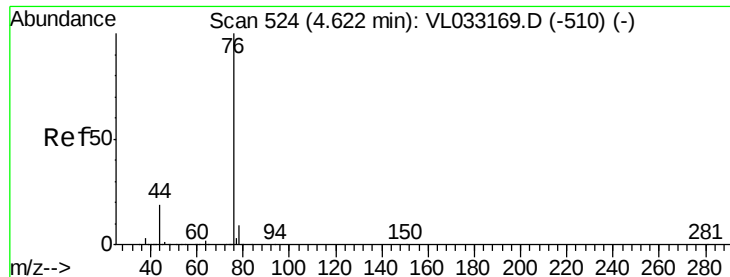
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.018 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

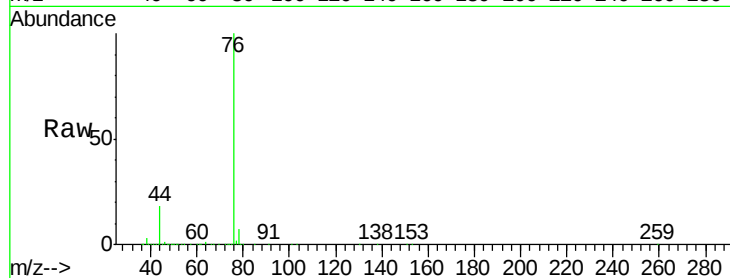
Tot Ion: 76 Resp: 1089948

Ion Ratio Lower Upper

76 100

44 19.2 15.0 22.4

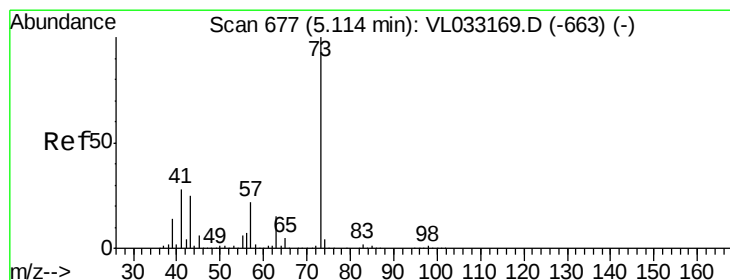
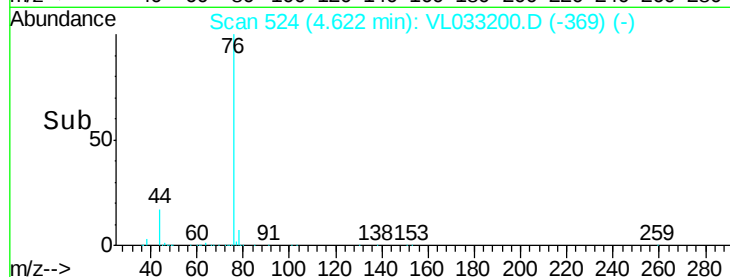
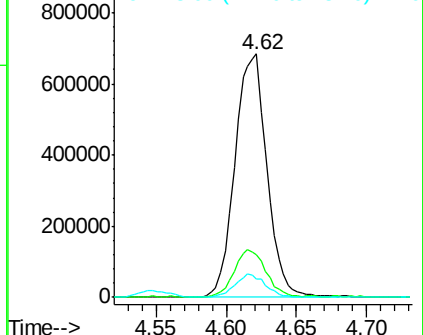
78 9.1 7.4 11.0



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: 10.260 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.01 min

Lab File: VL033200.D

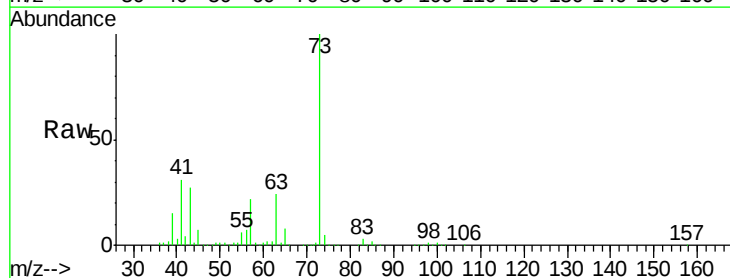
Acq: 14 Feb 2019 14:49

Tgt Ion: 73 Resp: 1513959

Ion Ratio Lower Upper

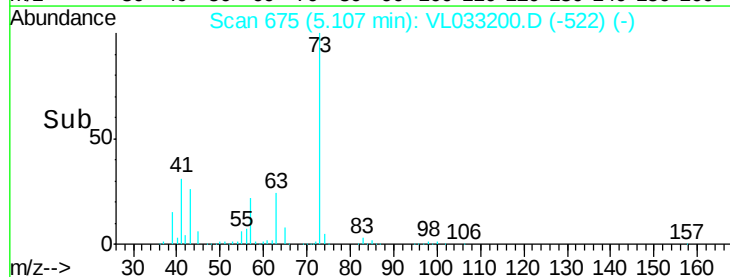
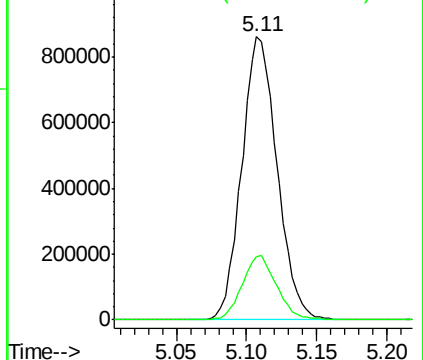
73 100

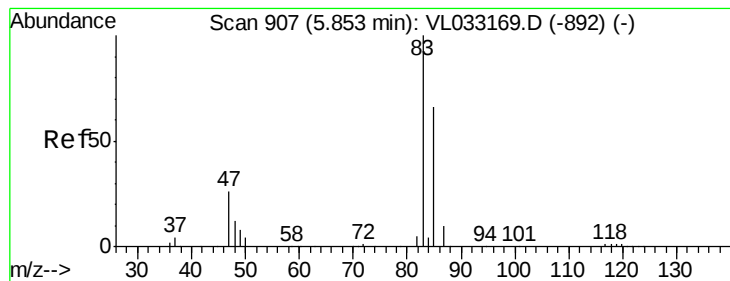
57 22.3 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.562 ppbv m

RT: 5.85 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

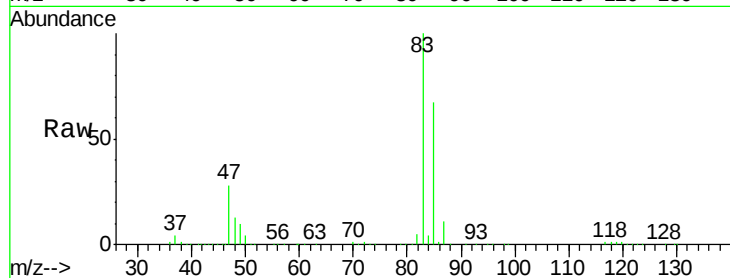
VSTDCCC010

Tot Ion: 83 Resp: 1582292

Ion Ratio Lower Upper

83 100

85 66.6 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

1000000

800000

600000

400000

200000

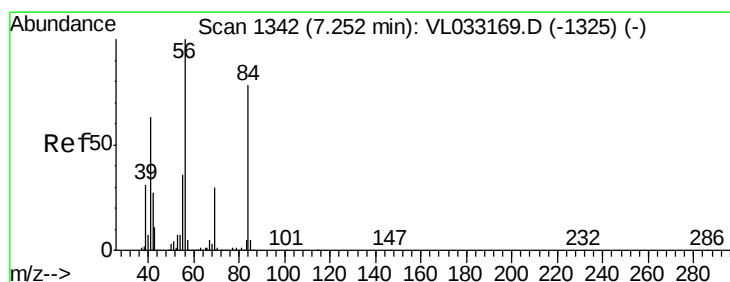
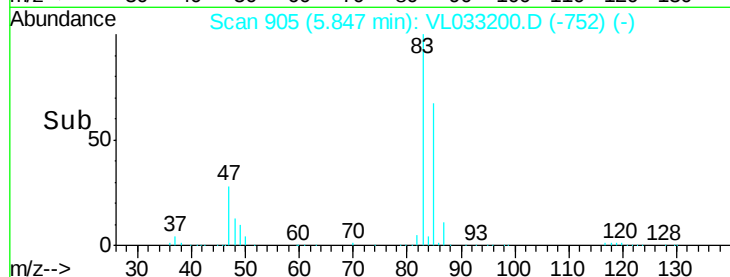
0

5.80

5.85

5.90

Time-->



#30

Cyclohexane

Concen: 8.492 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

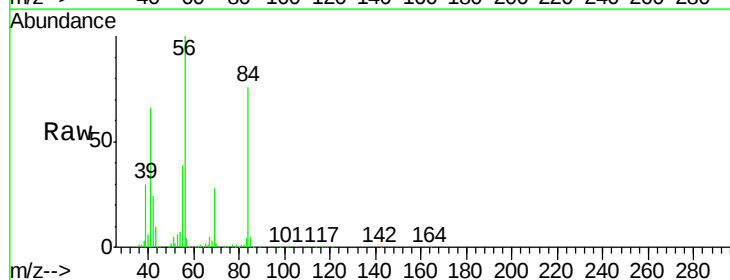
Tgt Ion: 84 Resp: 850792

Ion Ratio Lower Upper

84 100

56 142.2 109.5 164.3

41 87.9 66.6 100.0



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

800000

600000

400000

200000

0

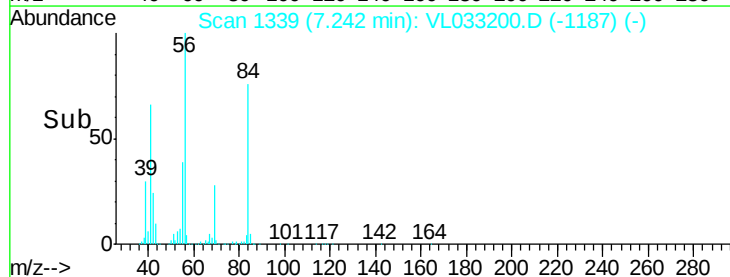
7.15

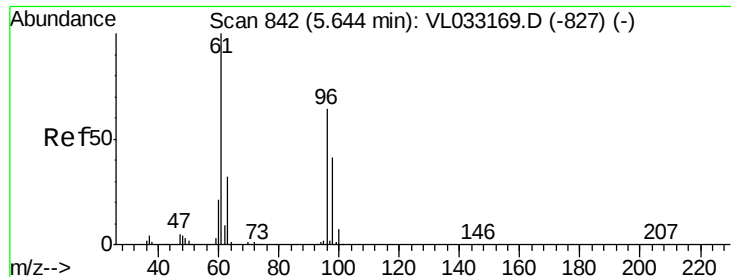
7.20

7.25

7.30

Time-->



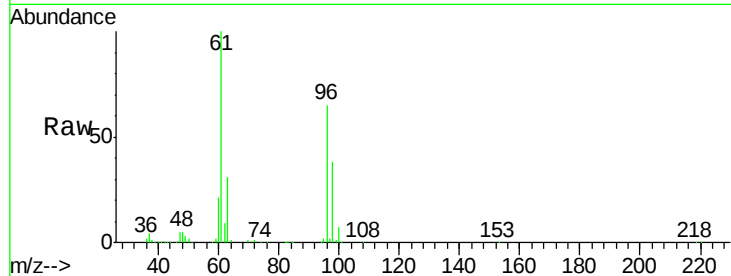


#31

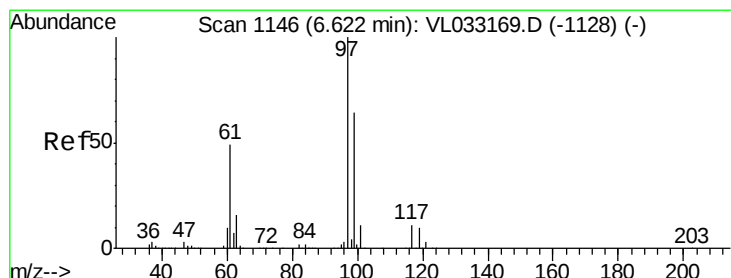
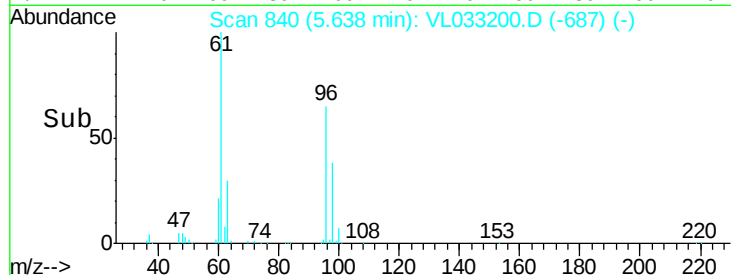
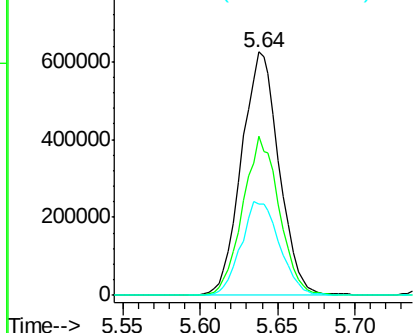
cis-1,2-Dichloroethene
 Concen: 9.768 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 61 Resp: 1055668
 Ion Ratio Lower Upper
 61 100
 96 65.1 51.2 76.8
 98 37.7 32.8 49.2



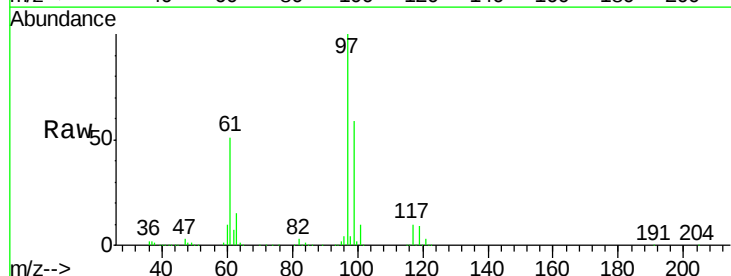
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



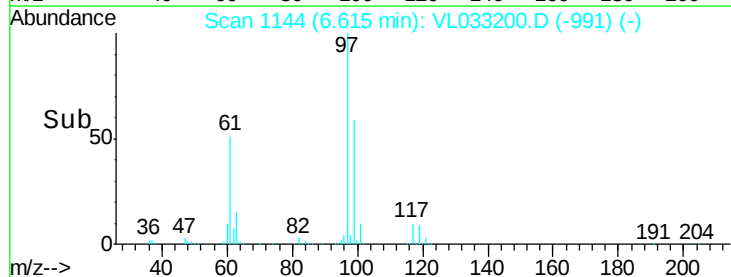
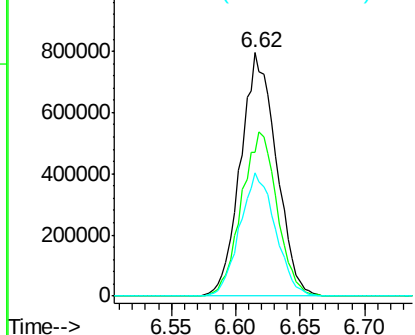
#32

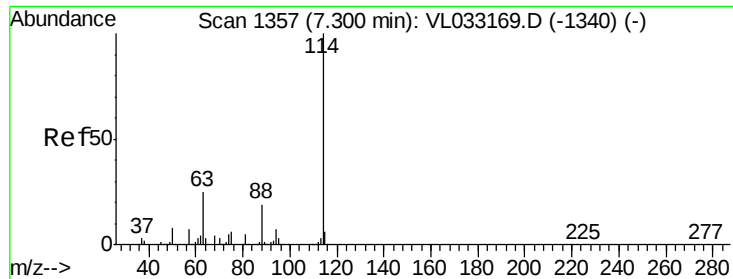
1,1,1-Trichloroethane
 Concen: 8.452 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion: 97 Resp: 1540087
 Ion Ratio Lower Upper
 97 100
 99 67.1 51.4 77.2
 61 50.4 38.9 58.3



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

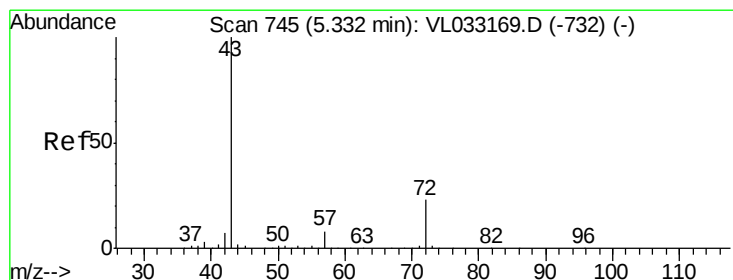
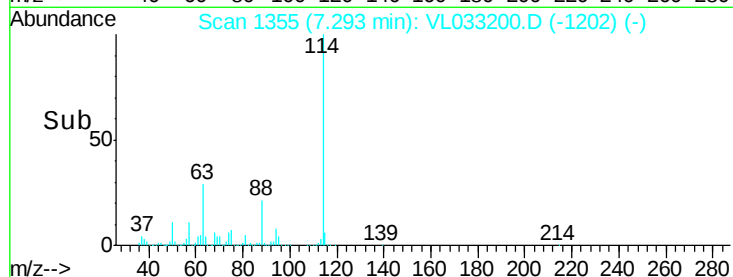
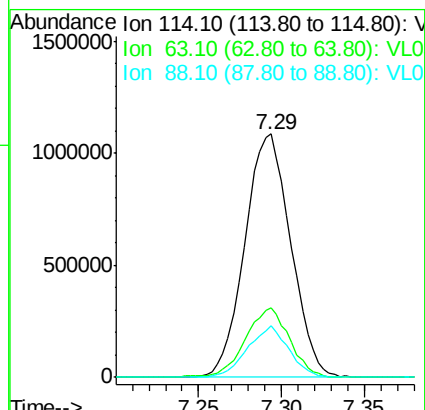
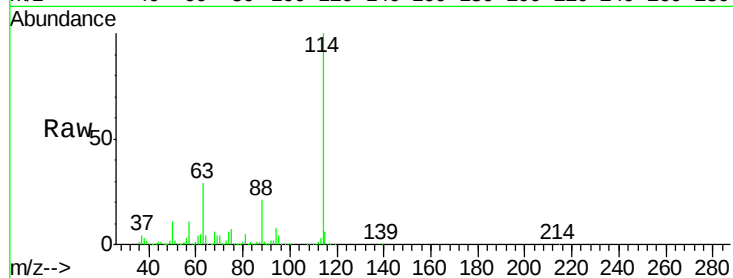




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

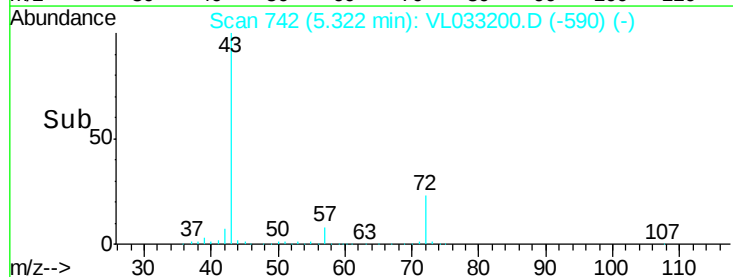
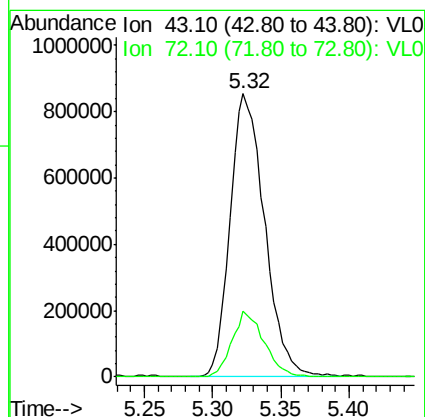
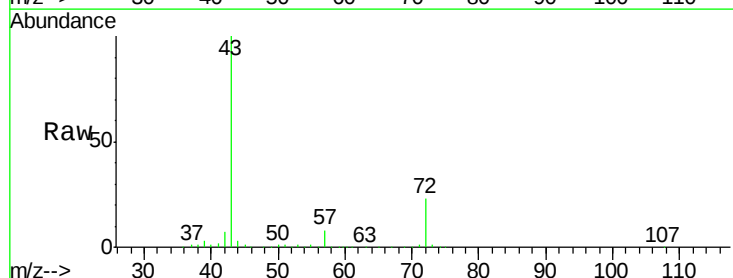
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

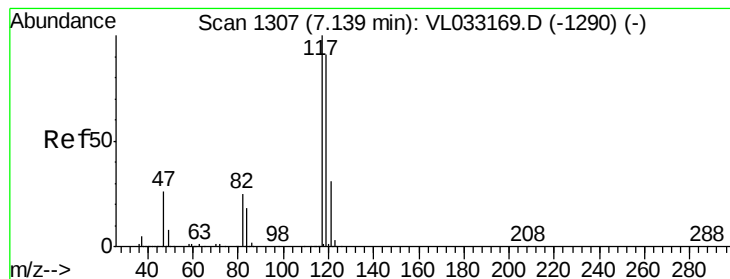
Tot Ion:114 Resp: 2095705
 Ion Ratio Lower Upper
 114 100
 63 27.9 20.8 31.2
 88 18.9 14.6 22.0



#34
 2-Butanone
 Concen: 11.271 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion: 43 Resp: 1498308
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.8 26.6





#35

Carbon Tetrachloride

Concen: 9.848 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

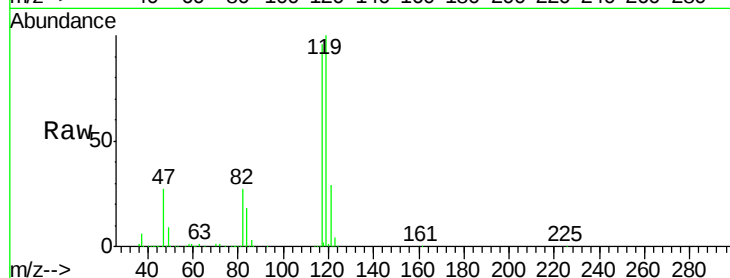
Tot Ion:117 Resp: 1576130

Ion Ratio Lower Upper

117 100

119 103.6 73.0 109.6

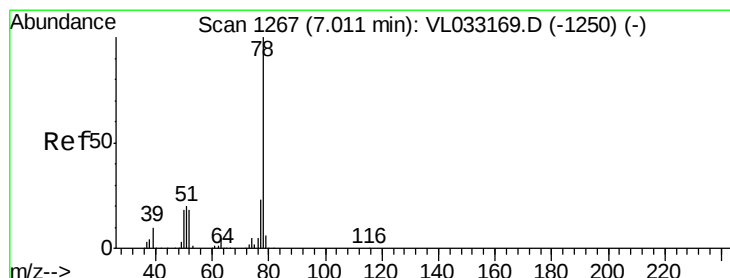
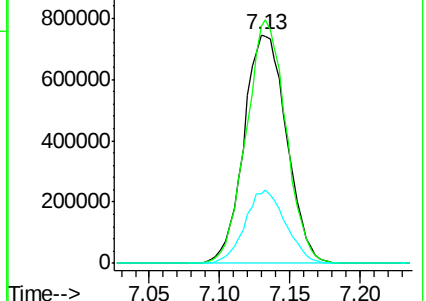
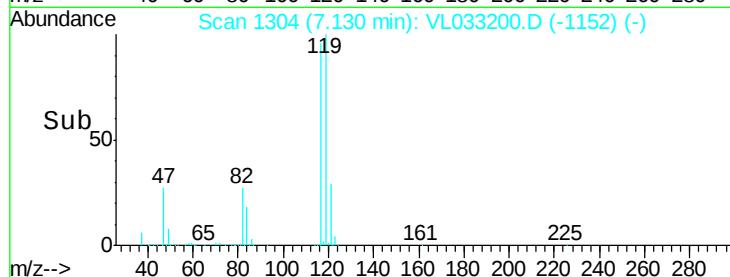
121 30.5 25.1 37.7



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: 9.638 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

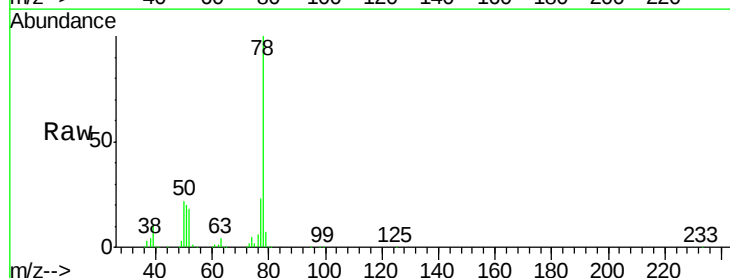
Tgt Ion: 78 Resp: 2047020

Ion Ratio Lower Upper

78 100

77 23.1 18.0 27.0

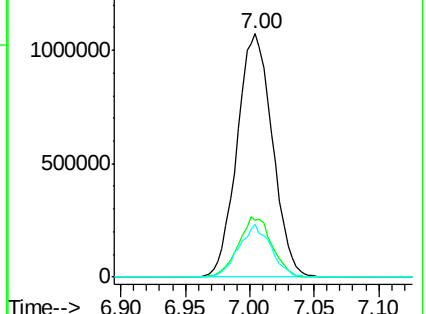
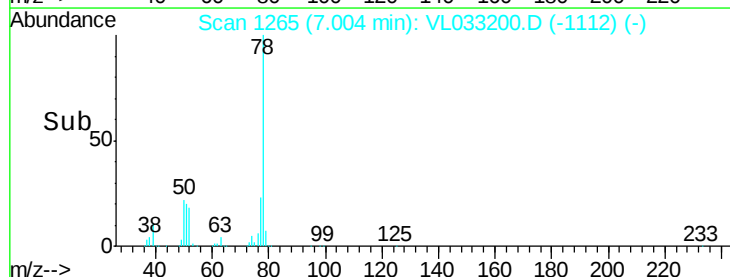
50 21.7 14.2 21.2#

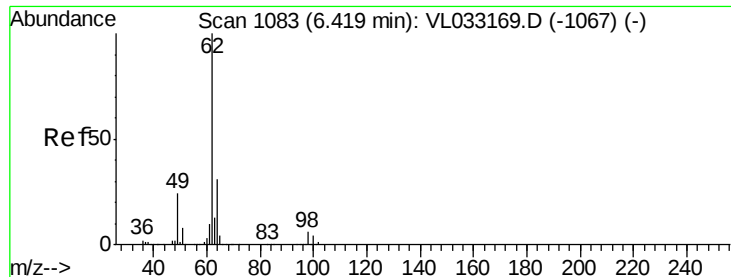


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

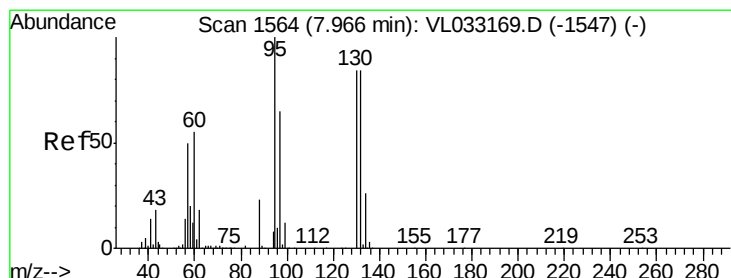
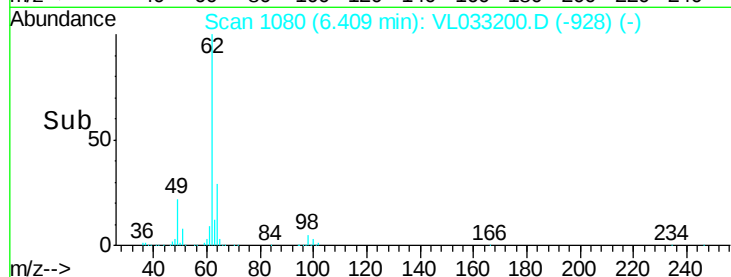
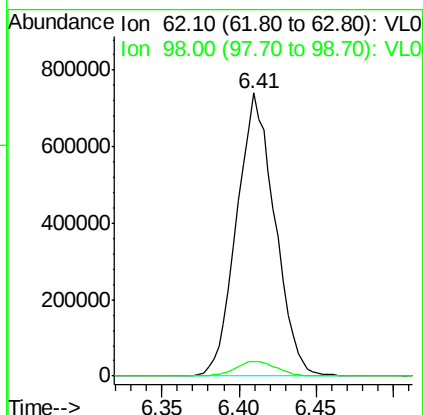
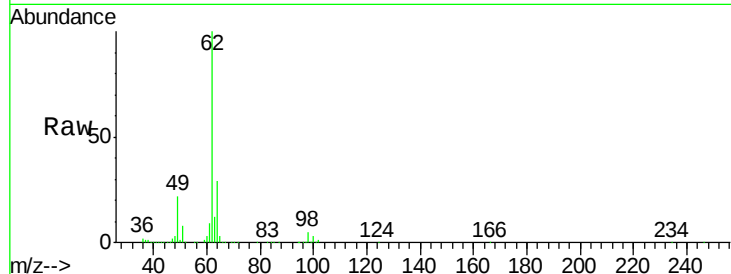




#37
 1,2-Dichloroethane
 Concen: 10.773 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

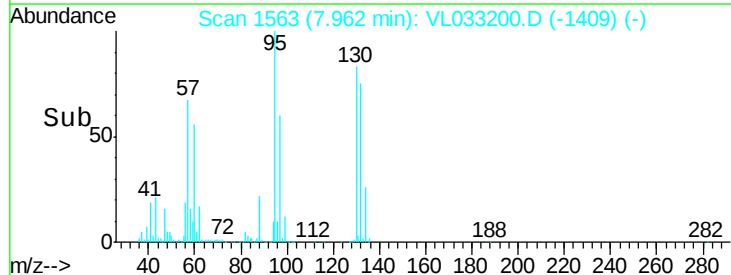
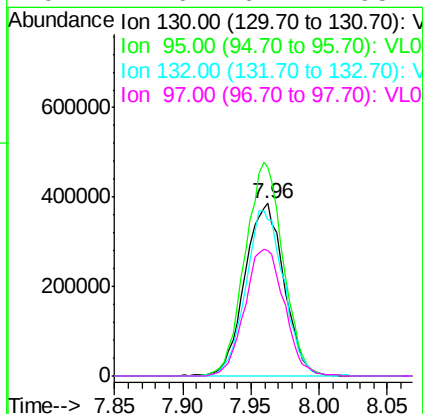
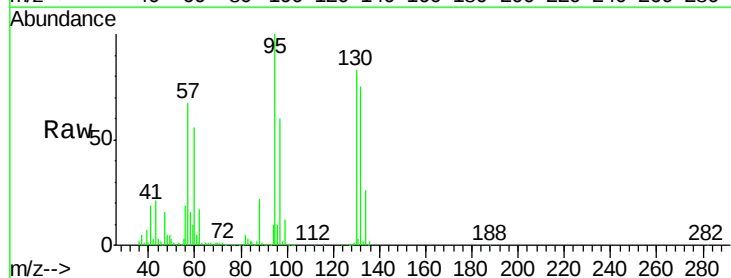
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

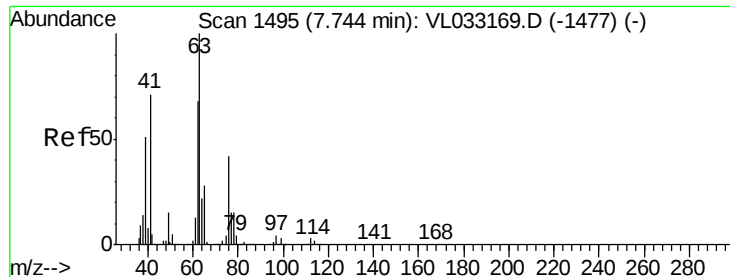
Tot Ion: 62 Resp: 1268057
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.7 7.1



#38
 Trichloroethene
 Concen: 8.396 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion:130 Resp: 763676
 Ion Ratio Lower Upper
 130 100
 95 121.4 95.5 143.3
 132 90.7 80.0 120.0
 97 72.6 62.2 93.2





#39

1,2-Dichloropropane

Concen: 9.477 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

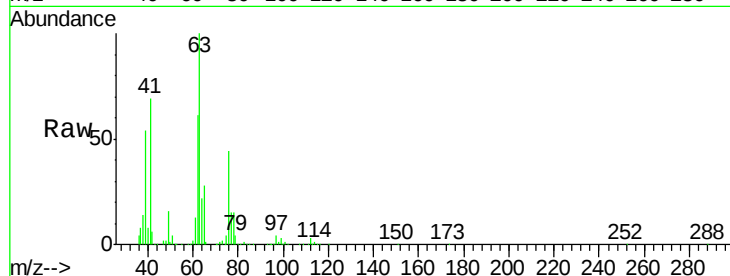
Tot Ion: 63 Resp: 794916

Ion Ratio Lower Upper

63 100

41 68.8 56.4 84.6

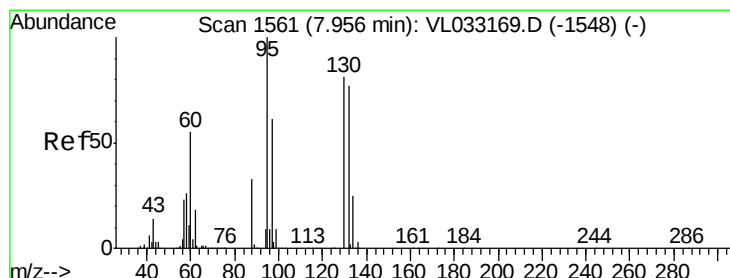
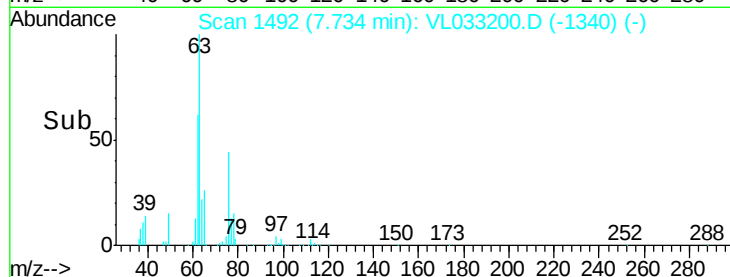
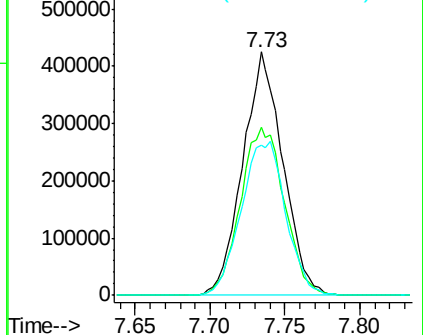
62 61.4 54.2 81.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.850 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Tgt Ion: 88 Resp: 300268

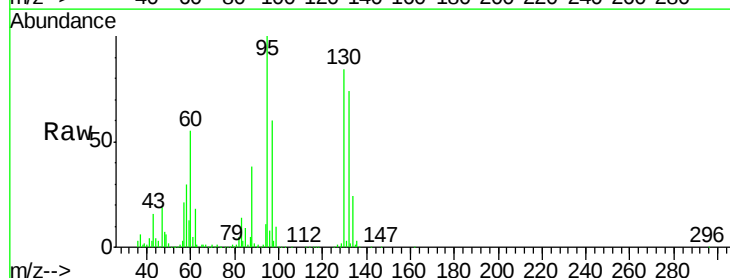
Ion Ratio Lower Upper

88 100

58 126.9 106.6 160.0

43 265.5 220.2 330.2

57 1162.4 992.6 1489.0

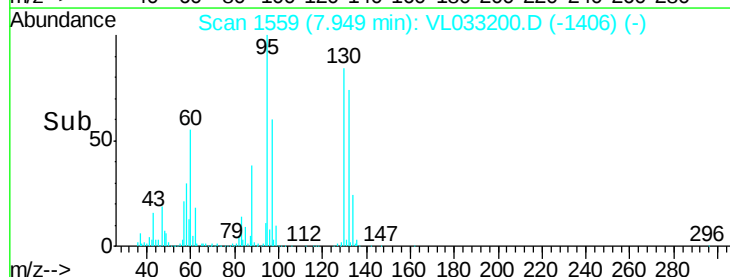
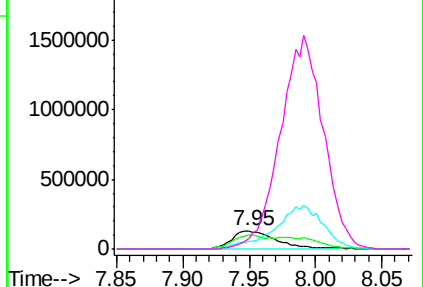


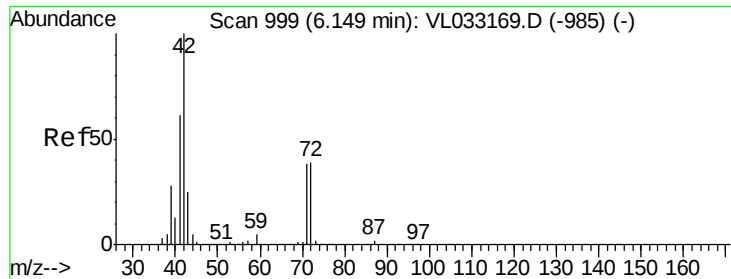
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.319 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

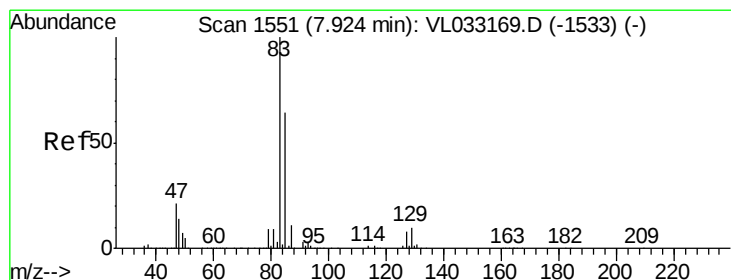
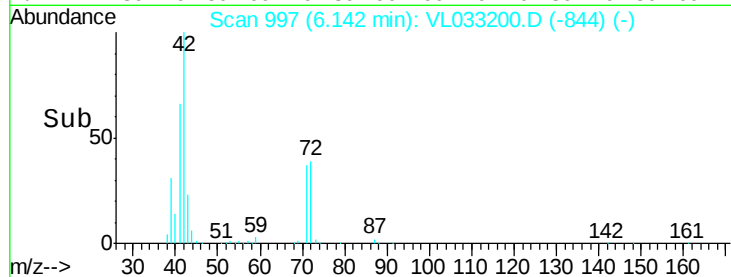
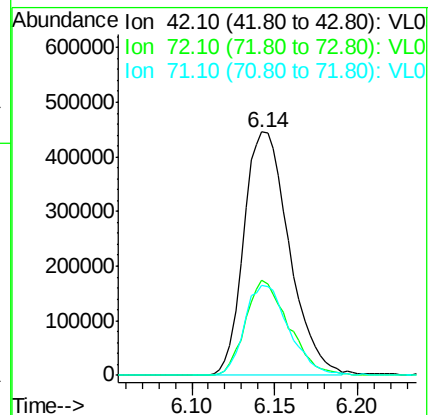
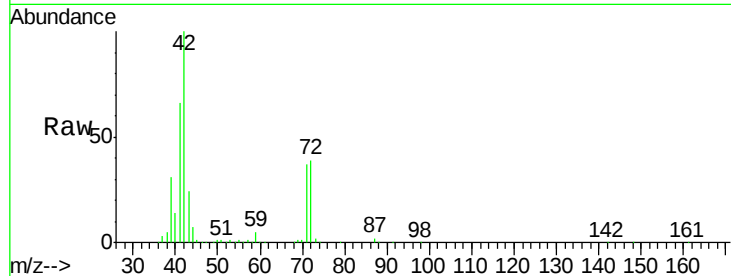
Tot Ion: 42 Resp: 849073

Ion Ratio Lower Upper

42 100

72 37.3 31.6 47.4

71 36.6 30.3 45.5



#42

Bromodichloromethane

Concen: 10.452 ppbv

RT: 7.92 min Scan# 1549

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

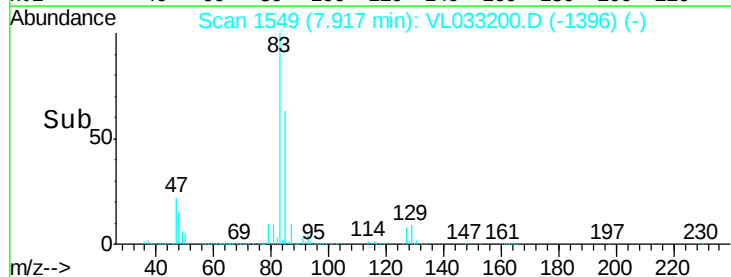
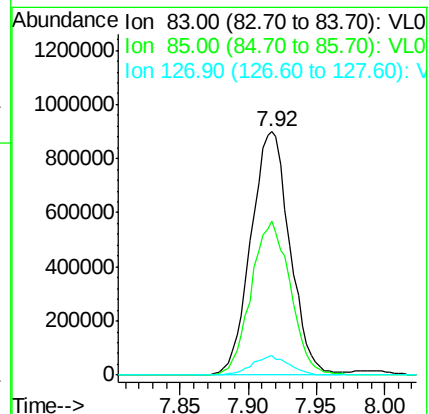
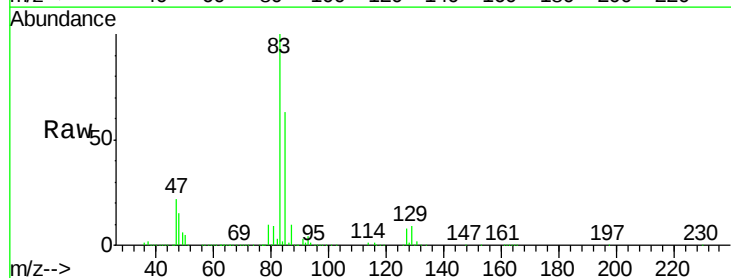
Tgt Ion: 83 Resp: 1782801

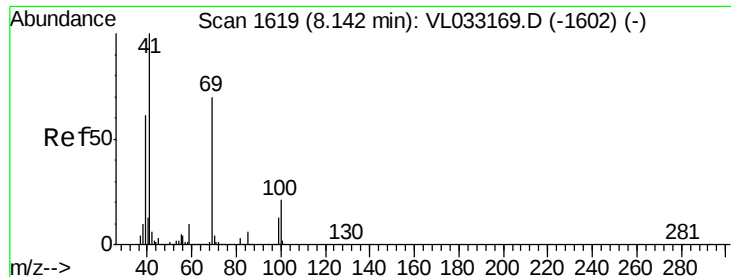
Ion Ratio Lower Upper

83 100

85 63.3 51.1 76.7

127 8.2 6.4 9.6

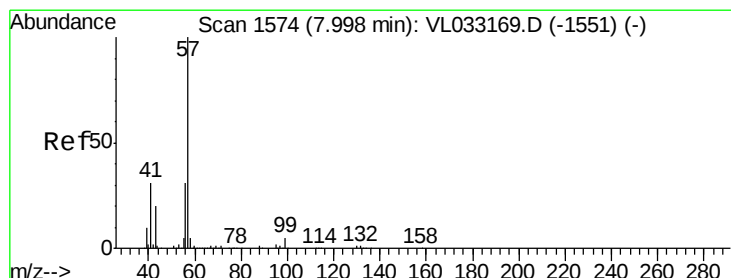
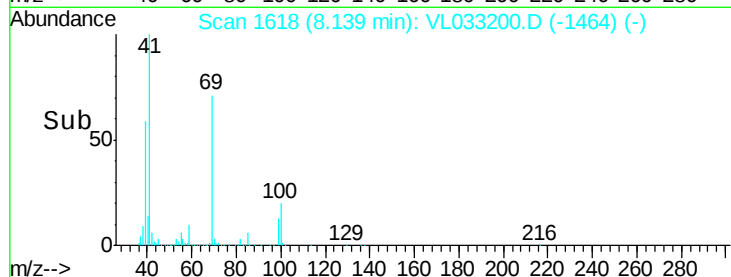
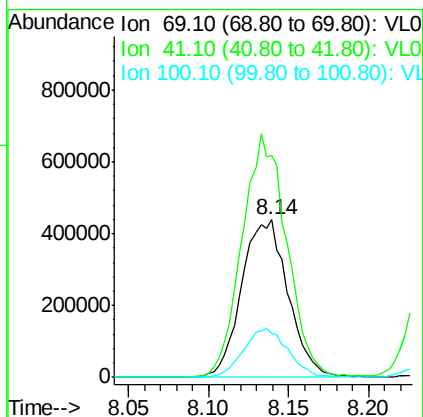
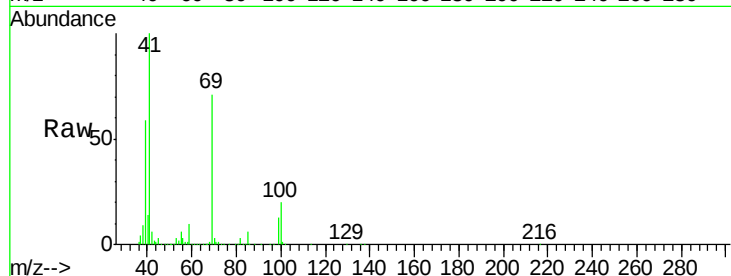




#43
Methvl Methacrilate
Concen: 10.161 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

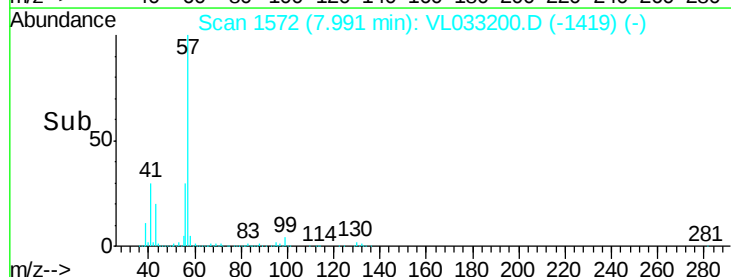
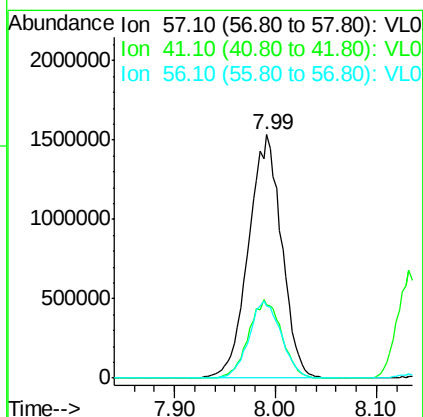
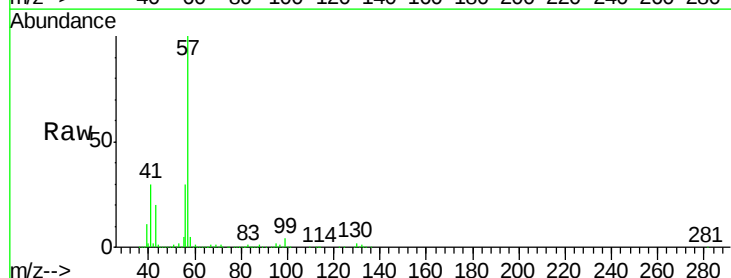
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

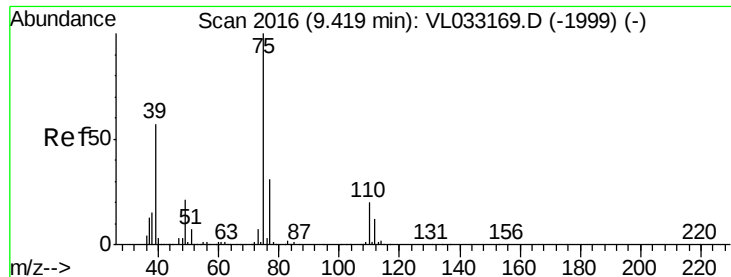
Tot Ion: 69 Resp: 866422
Ion Ratio Lower Upper
69 100
41 149.2 117.1 175.7
100 29.9 25.0 37.6



#44
2,2,4-Trimethylpentane
Concen: 9.691 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Tgt Ion: 57 Resp: 3488002
Ion Ratio Lower Upper
57 100
41 32.0 25.1 37.7
56 30.7 24.5 36.7





#45

t-1,3-Dichloropropene

Concen: 12.182 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

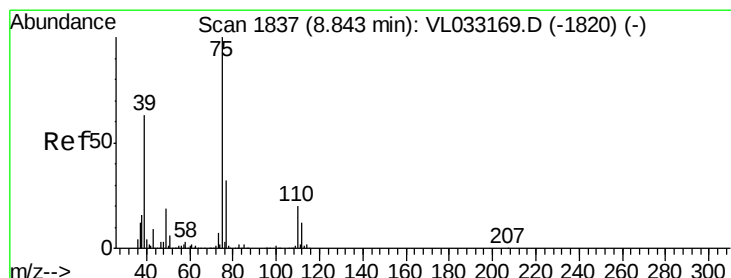
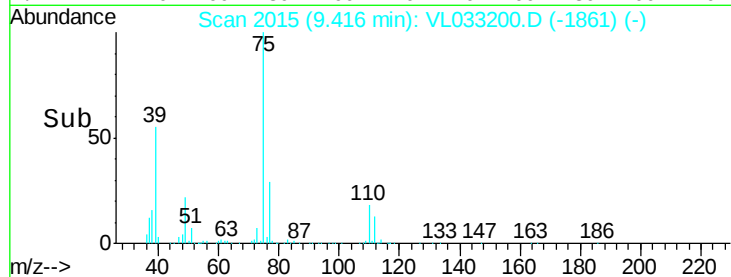
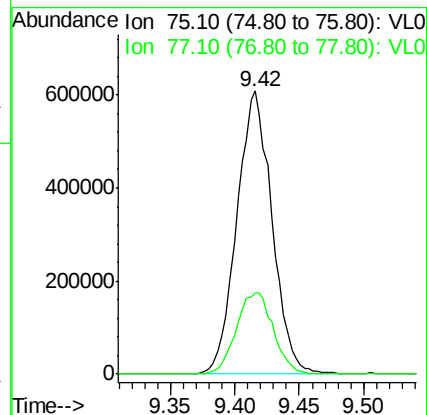
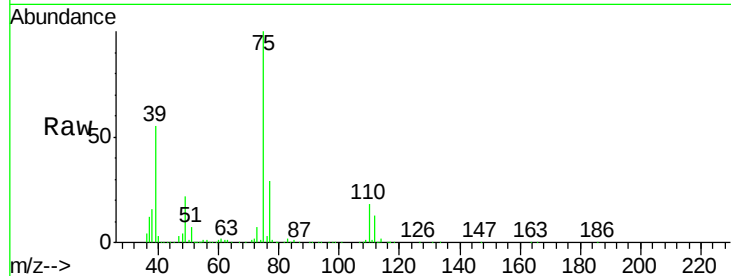
VSTDCCC010

Tot Ion: 75 Resp: 1153981

Ion Ratio Lower Upper

75 100

77 28.6 25.0 37.4



#46

cis-1,3-Dichloropropene

Concen: 10.836 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

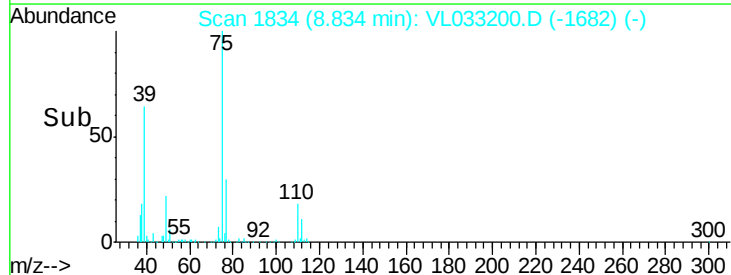
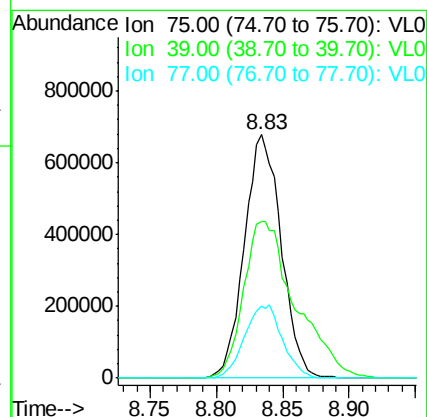
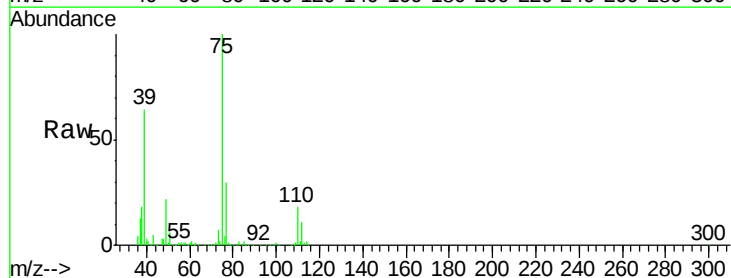
Tgt Ion: 75 Resp: 1307511

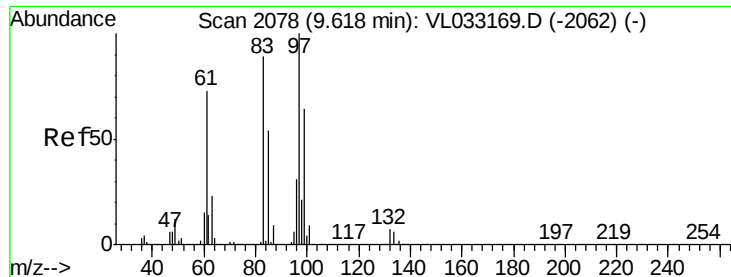
Ion Ratio Lower Upper

75 100

39 64.3 50.1 75.1

77 29.6 25.4 38.2





#47

1,1,2-Trichloroethane

Concen: 9.799 ppbv

RT: 9.61 min Scan# 2077

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

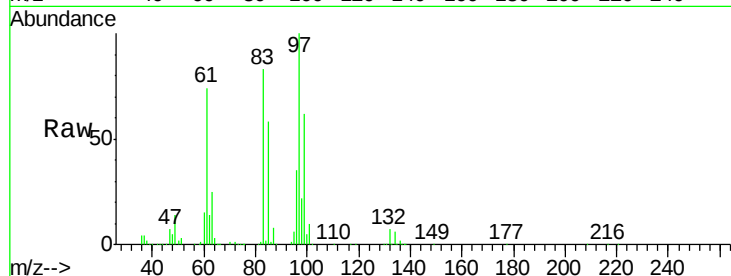
MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 852986

Ion	Ratio	Lower	Upper
97	100		
83	82.5	71.4	107.2
85	57.6	43.5	65.3
99	61.5	51.4	77.0

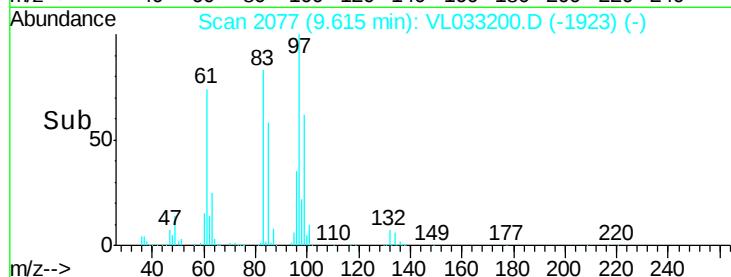


Abundance Ion 97.00 (96.70 to 97.70): VL0

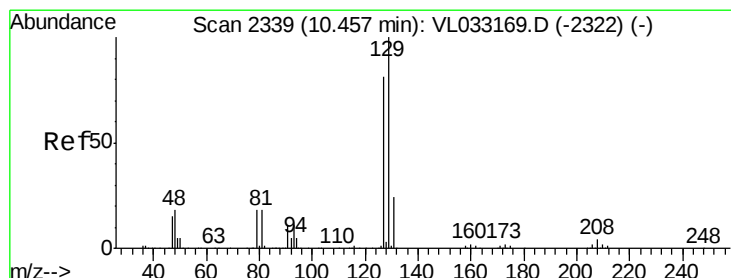
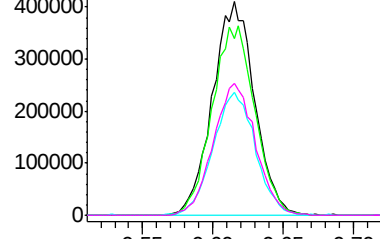
Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



Time-->



#48

Dibromochloromethane

Concen: 11.130 ppbv

RT: 10.45 min Scan# 2337

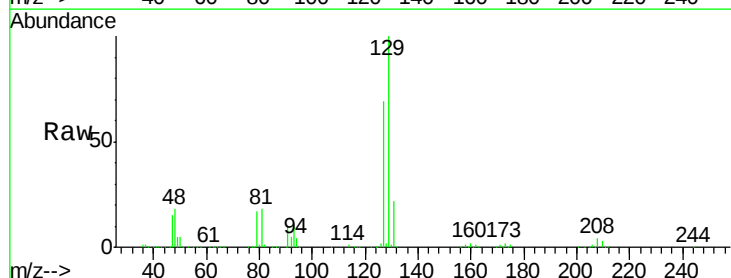
Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

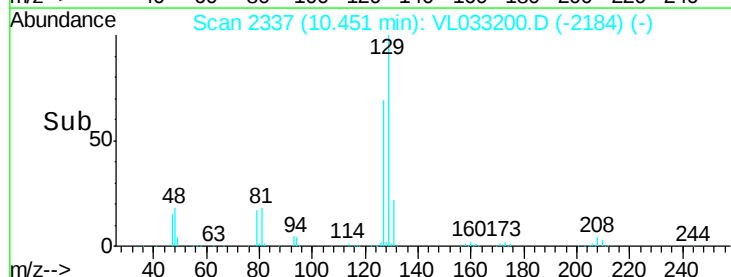
Tgt Ion: 129 Resp: 1525234

Ion	Ratio	Lower	Upper
129	100		
127	74.1	39.1	117.3

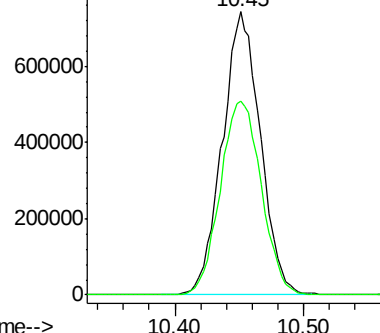


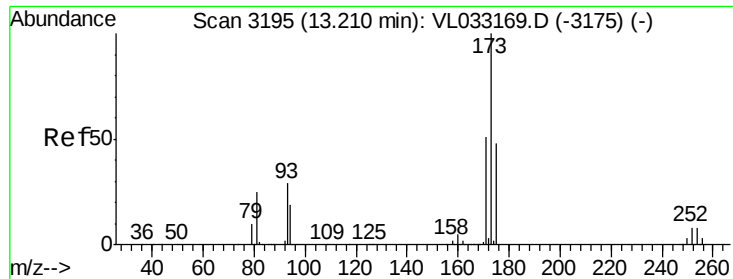
Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->





#49

Bromoform

Concen: 10.881 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

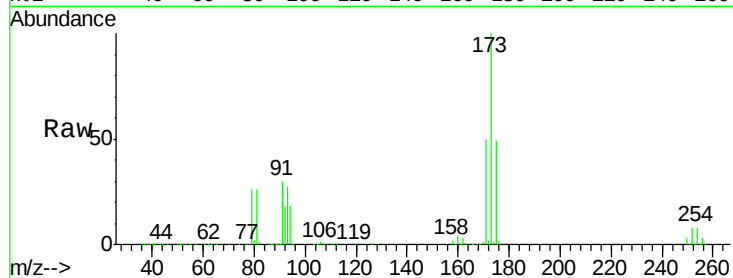
Tot Ion:173 Resp: 1282947

Ion Ratio Lower Upper

173 100

175 48.7 38.6 58.0

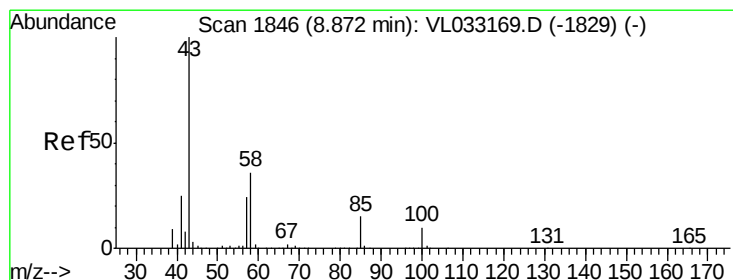
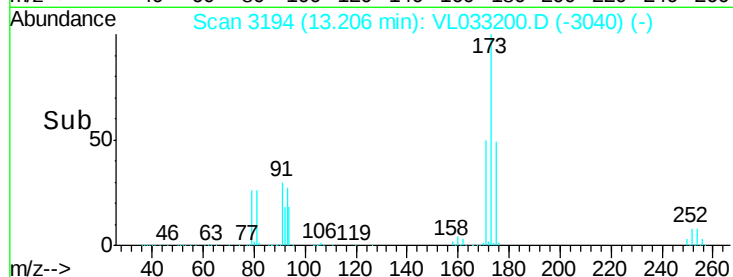
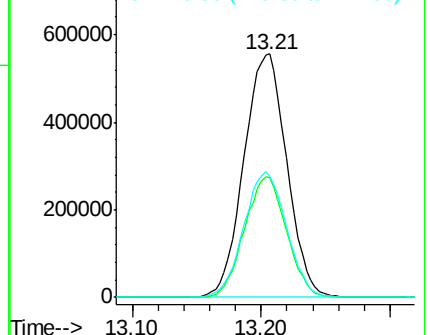
171 51.6 41.6 62.4



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: 10.143 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL033200.D

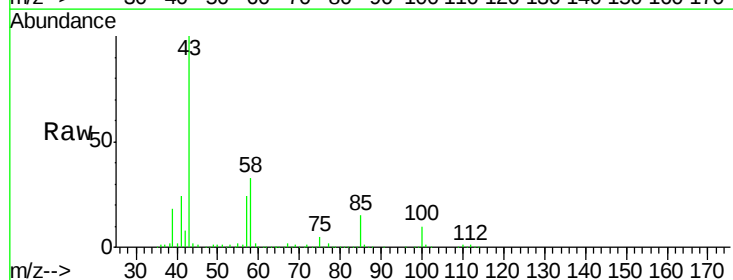
Acq: 14 Feb 2019 14:49

Tgt Ion: 43 Resp: 2162048

Ion Ratio Lower Upper

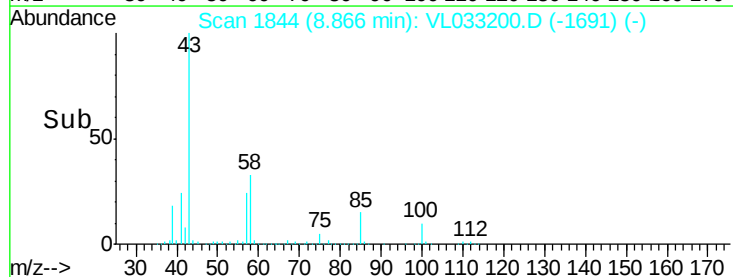
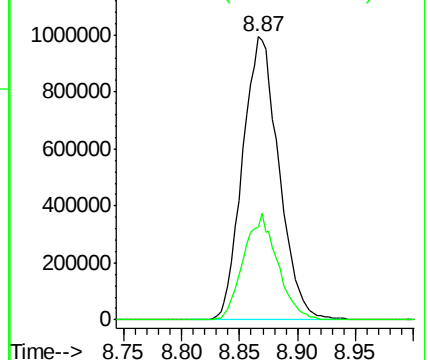
43 100

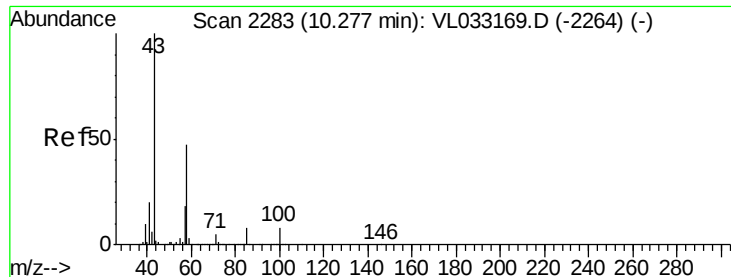
58 35.2 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.270 ppbv m

RT: 10.26 min Scan# 2279

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

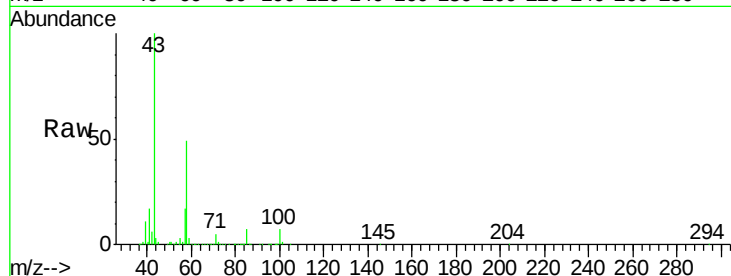
Tot Ion: 43 Resp: 1726036

Ion Ratio Lower Upper

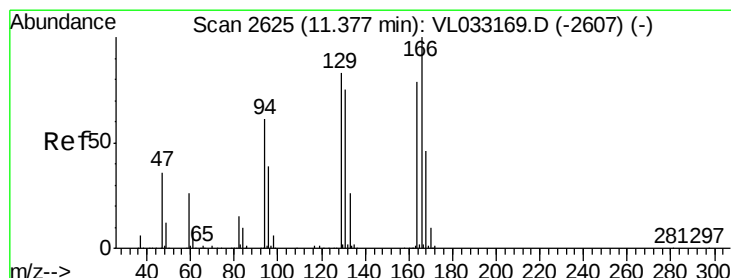
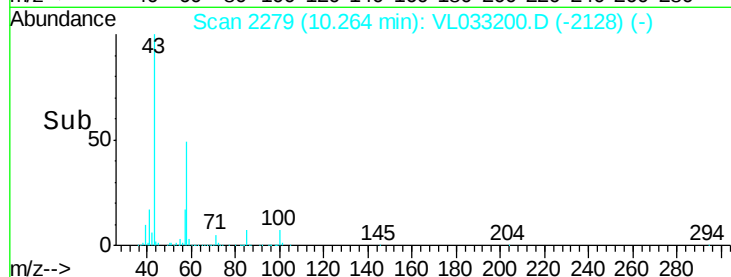
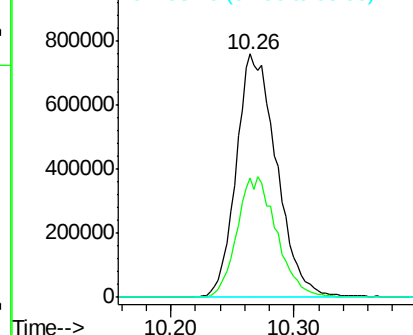
43 100

58 0.0 39.1 58.7#

98 0.1 0.2 0.2#



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: 9.073 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Tgt Ion: 164 Resp: 740396

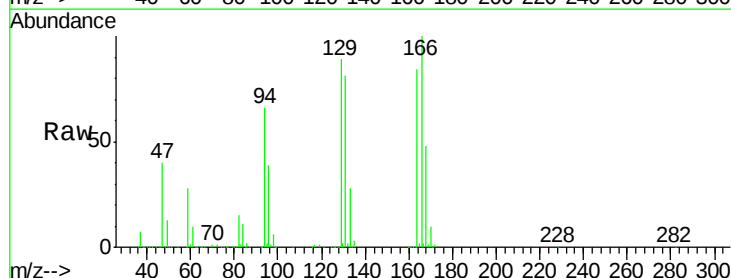
Ion Ratio Lower Upper

164 100

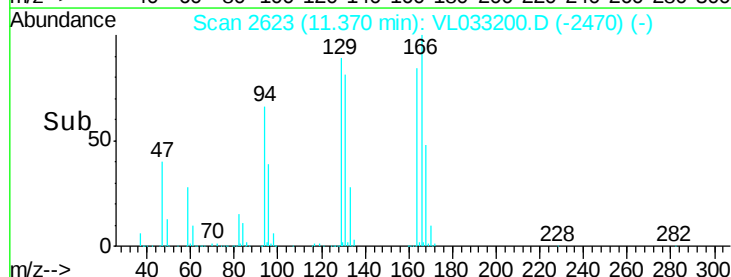
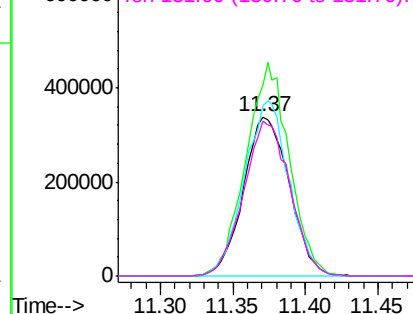
166 119.4 100.9 151.3

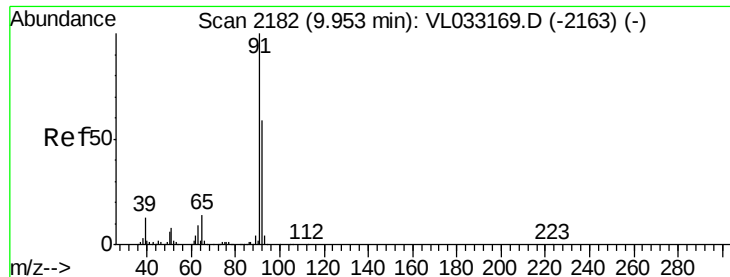
129 106.7 83.9 125.9

131 96.8 76.2 114.2



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: 9.627 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

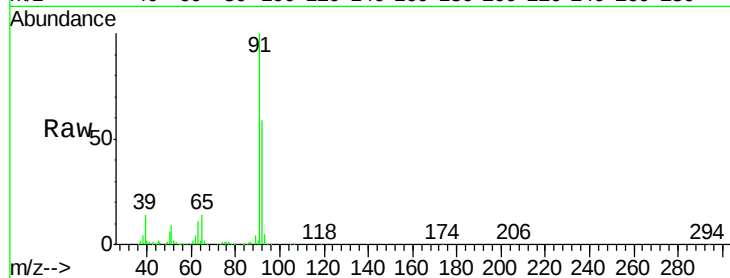
VSTDCCC010

Tot Ion: 91 Resp: 2421297

Ion Ratio Lower Upper

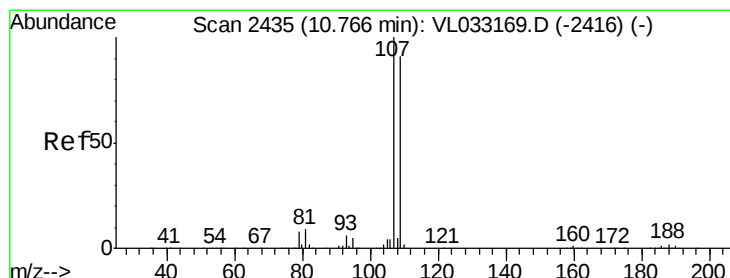
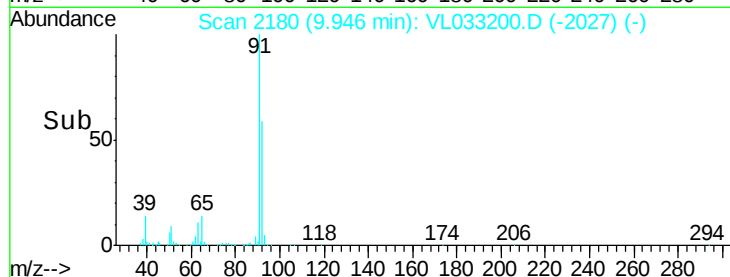
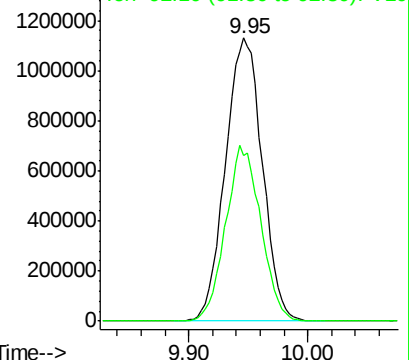
91 100

92 59.2 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.220 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033200.D

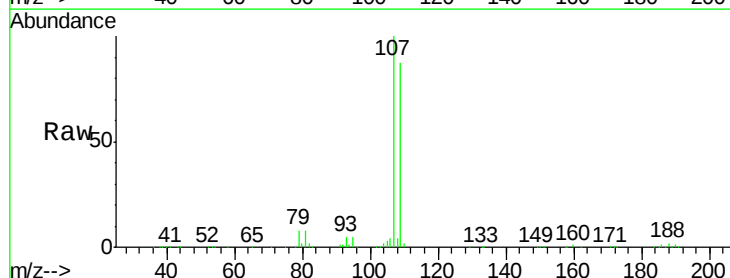
Acq: 14 Feb 2019 14:49

Tgt Ion: 107 Resp: 1395089

Ion Ratio Lower Upper

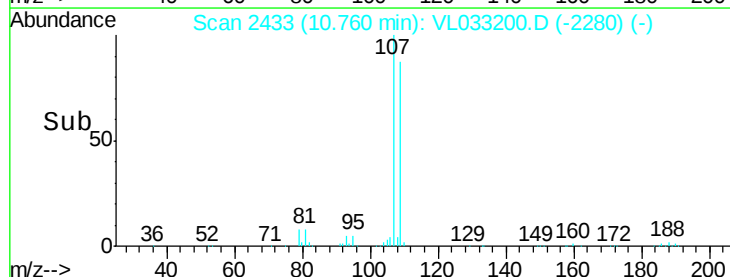
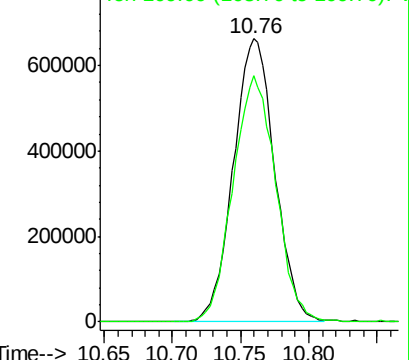
107 100

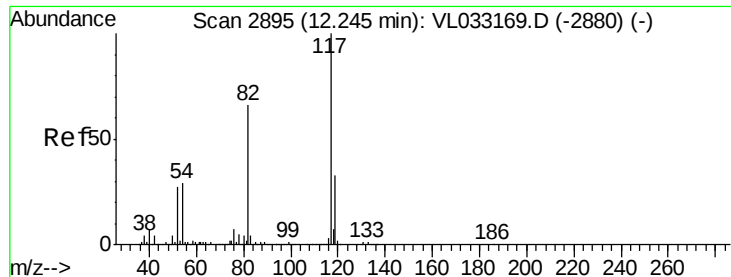
109 87.1 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

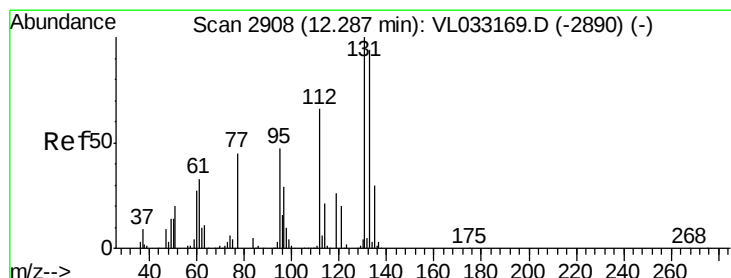
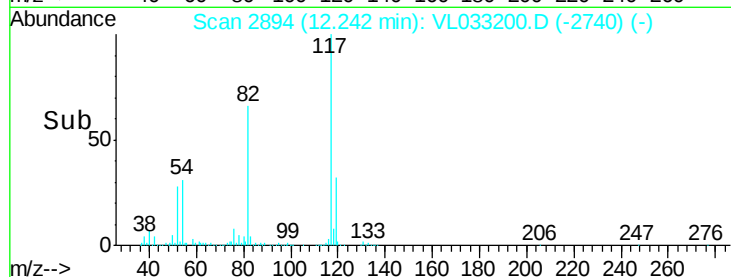
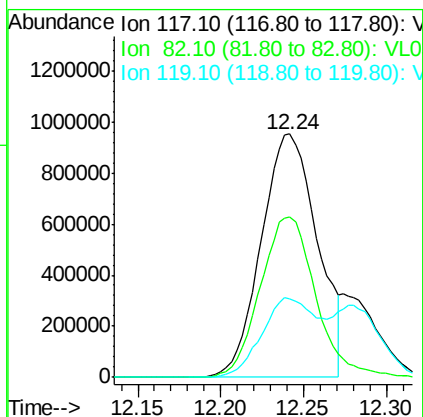
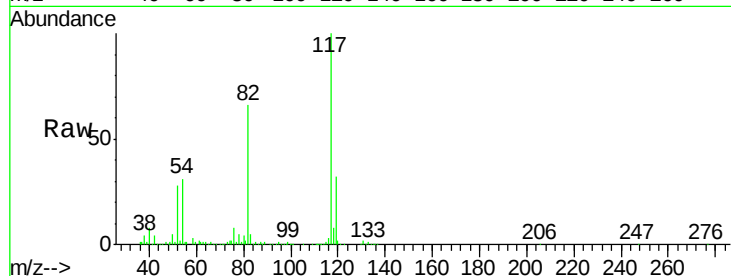




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

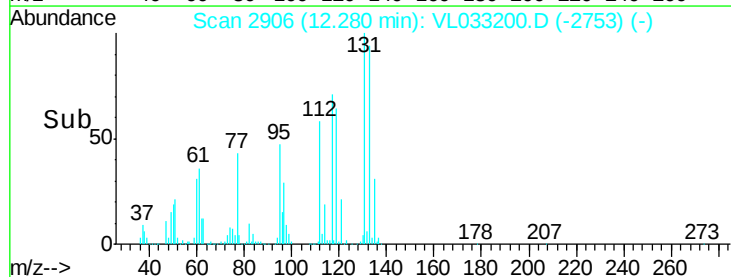
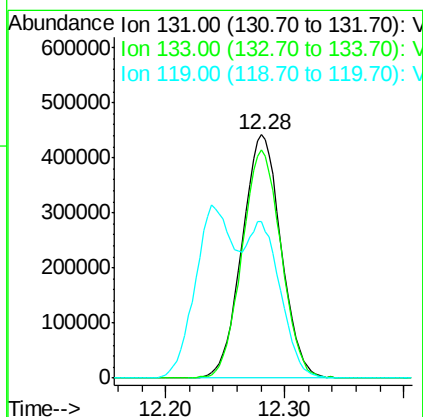
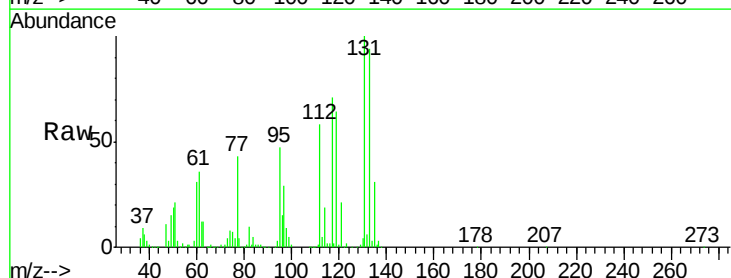
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

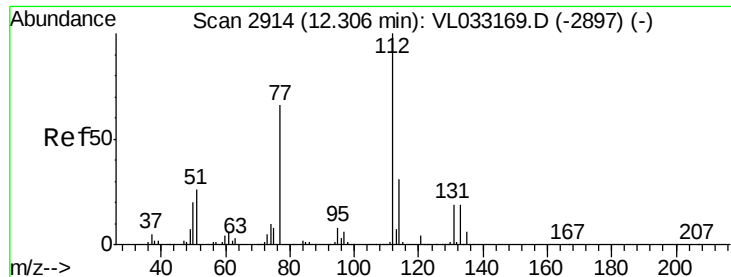
Tot Ion:117 Resp: 2248676
Ion Ratio Lower Upper
117 100
82 65.4 49.5 74.3
119 32.9 24.4 36.6



#56
1,1,1,2-Tetrachloroethane
Concen: 9.705 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Tgt Ion:131 Resp: 1001652
Ion Ratio Lower Upper
131 100
133 94.1 75.8 113.6
119 63.5 110.9 166.3#

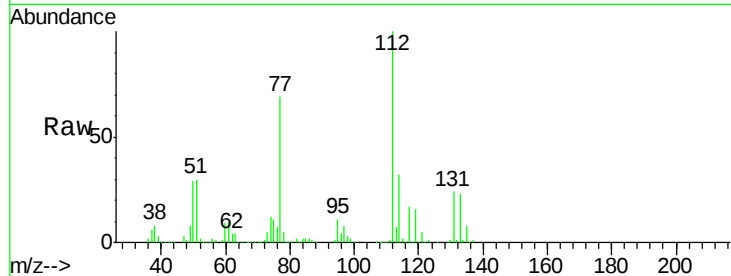




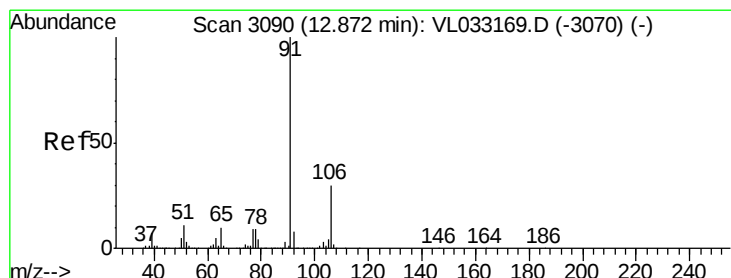
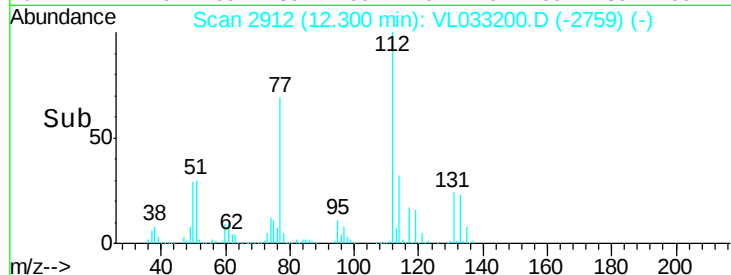
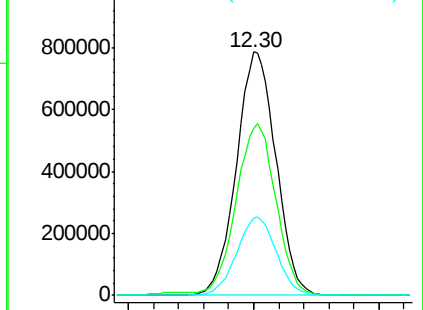
#57
Chlorobenzene
Concen: 8.731 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:112 Resp: 1713989
Ion Ratio Lower Upper
112 100
77 68.5 54.0 81.0
114 31.4 27.9 34.1

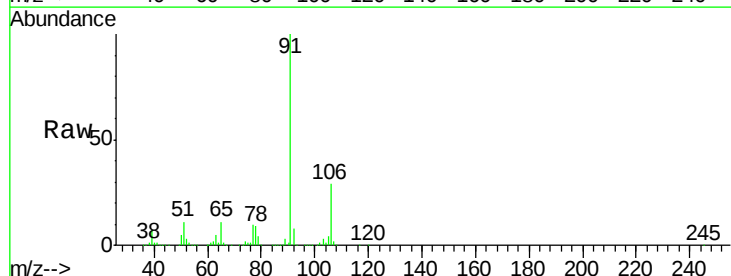


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

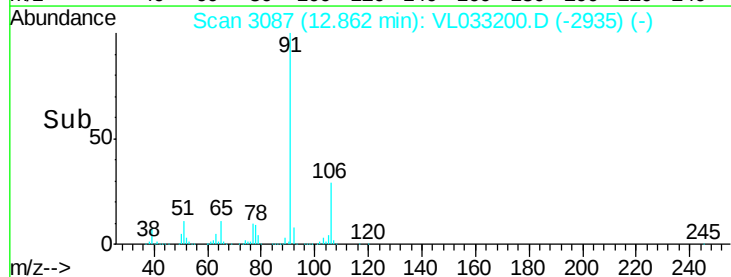
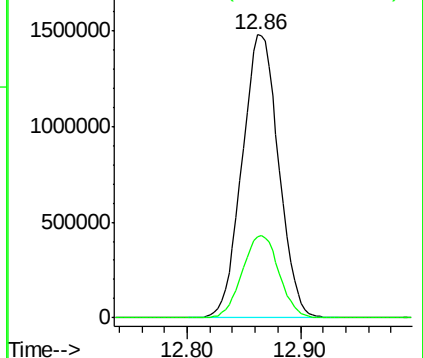


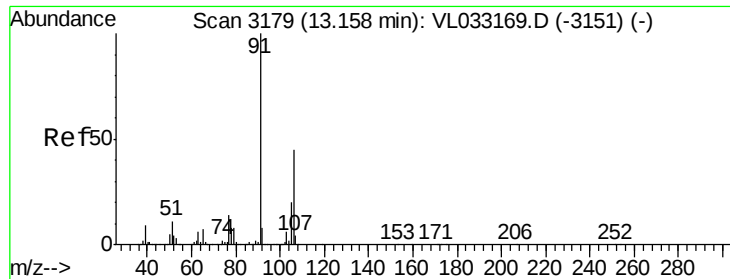
#58
Ethyl Benzene
Concen: 9.121 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Tgt Ion: 91 Resp: 3319280
Ion Ratio Lower Upper
91 100
106 28.8 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 18.174 ppbv m

RT: 13.15 min Scan# 3176

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

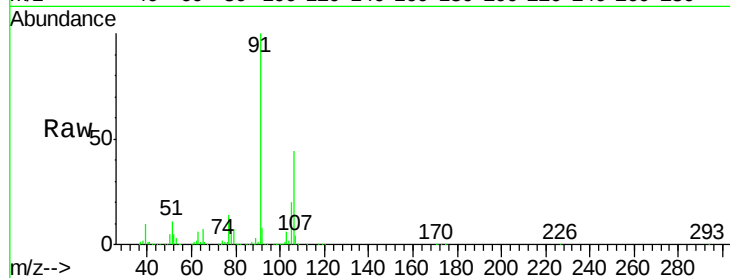
VSTDCCC010

Tot Ion: 91 Resp: 5519780

Ion Ratio Lower Upper

91 100

106 44.2 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.15

1500000

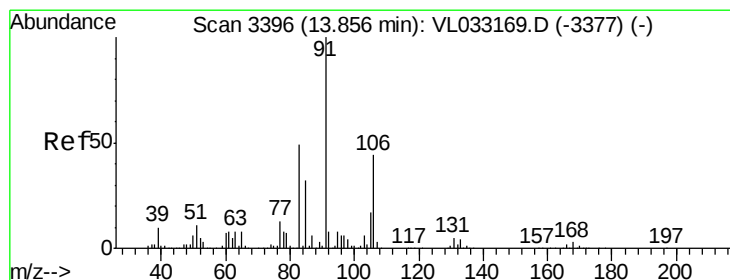
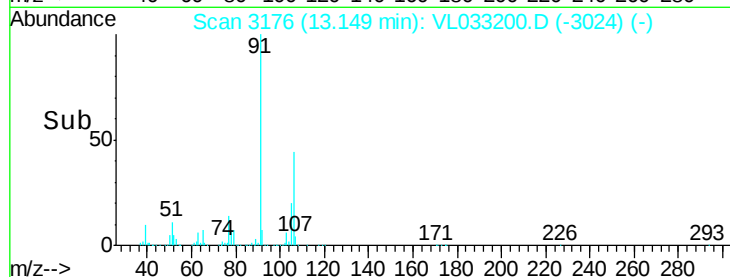
1000000

500000

0

Time-->

13.10 13.20



#60

o-Xylene

Concen: 8.918 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033200.D

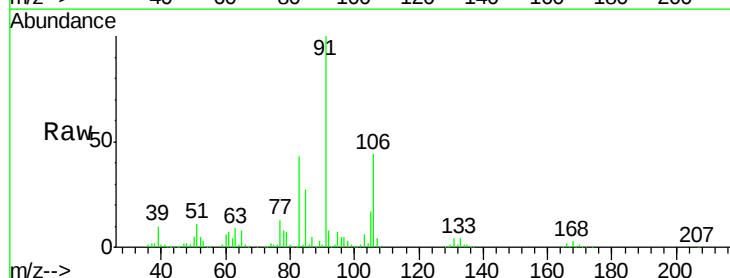
Acq: 14 Feb 2019 14:49

Tgt Ion: 91 Resp: 2634077

Ion Ratio Lower Upper

91 100

106 42.9 21.8 65.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.85

1200000

1000000

800000

600000

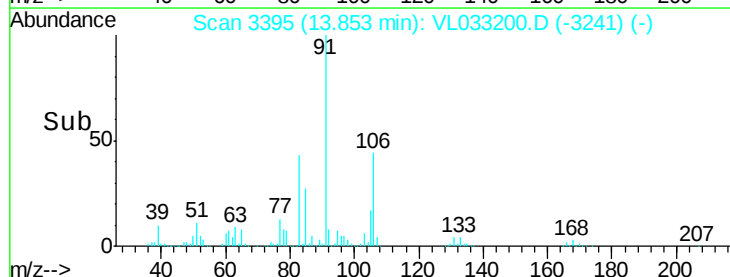
400000

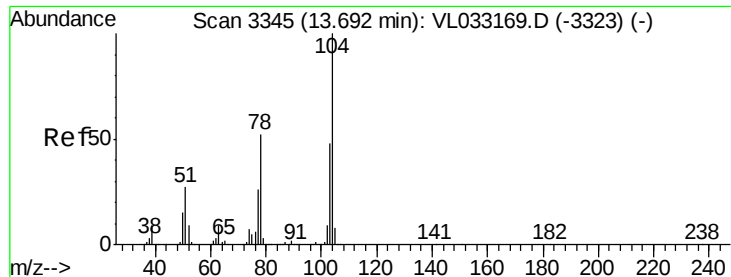
200000

0

Time-->

13.80 13.90





#61

Stvrene

Concen: 9.054 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

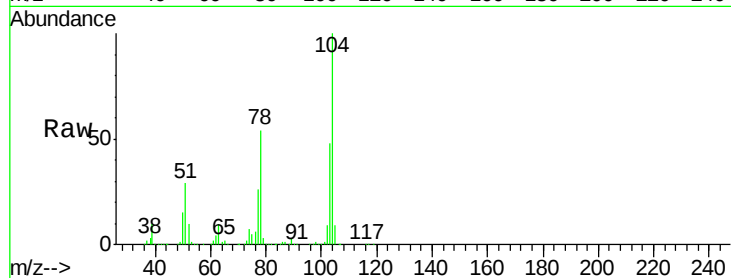
Tot Ion:104 Resp: 2016982

Ion Ratio Lower Upper

104 100

78 54.0 41.9 62.9

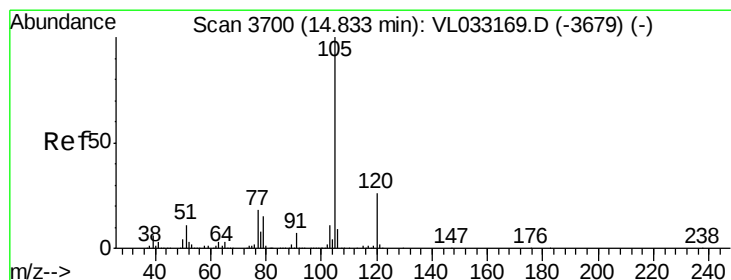
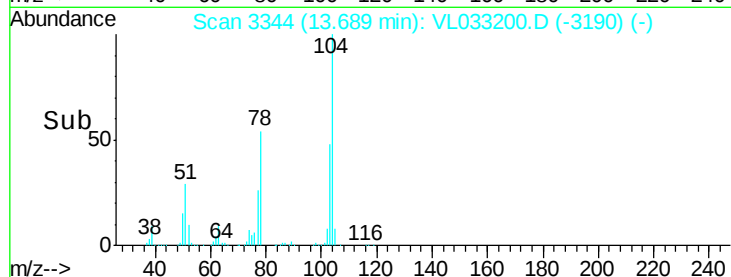
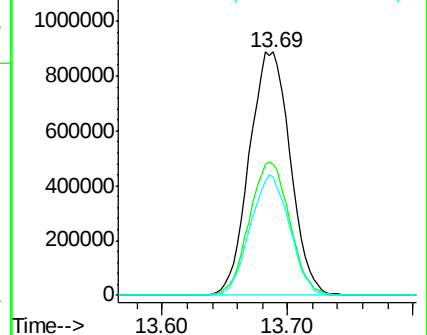
103 47.6 37.9 56.9



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: 8.974 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.01 min

Lab File: VL033200.D

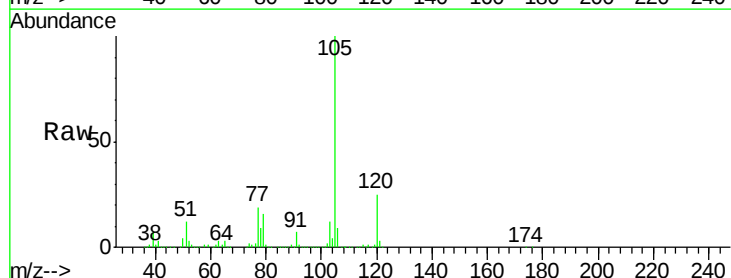
Acq: 14 Feb 2019 14:49

Tgt Ion:105 Resp: 3738530

Ion Ratio Lower Upper

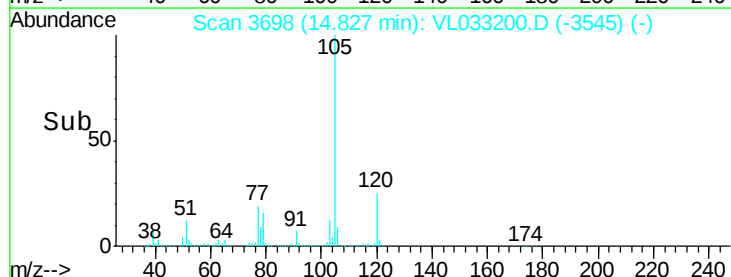
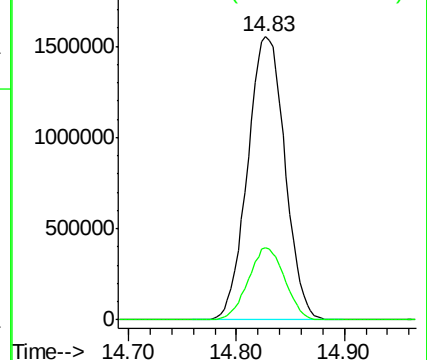
105 100

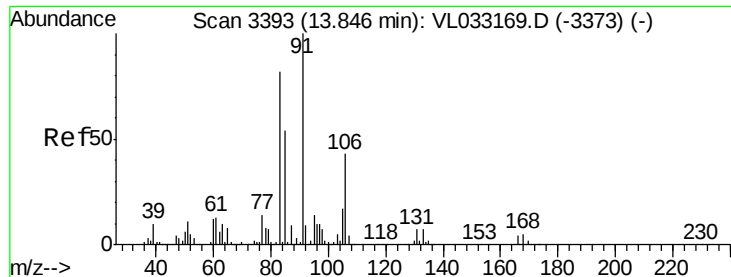
120 24.9 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



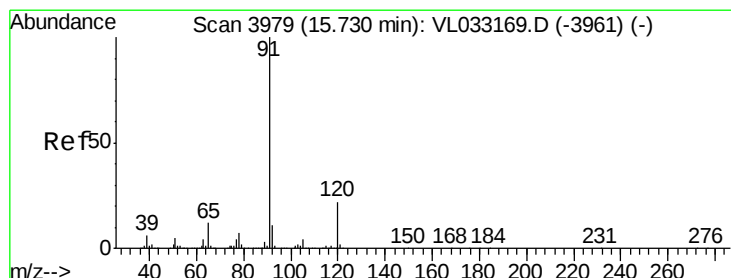
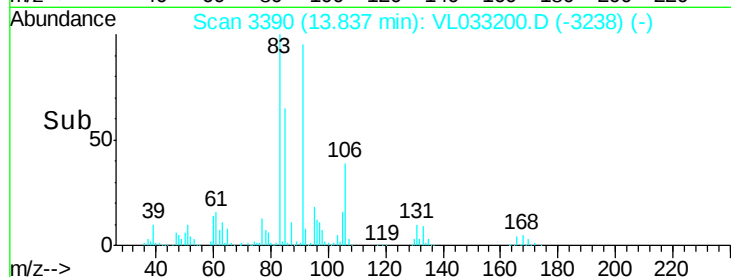
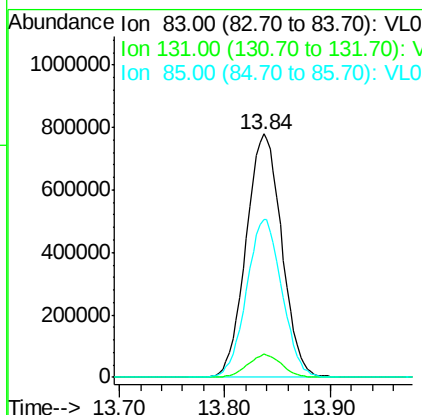
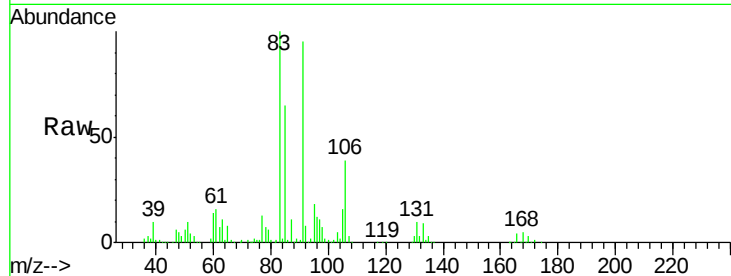


#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.908 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 83 Resp: 1834807

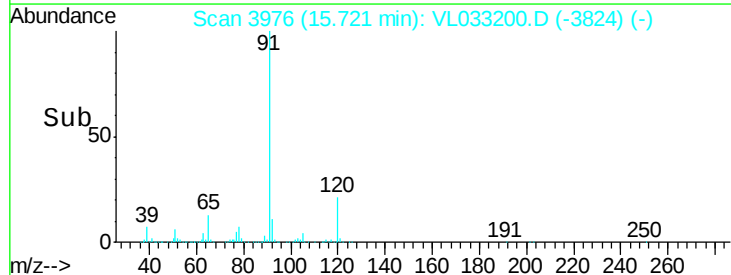
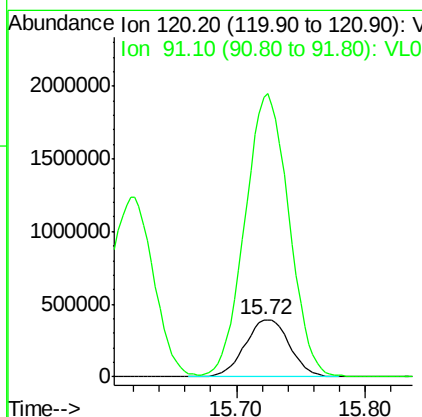
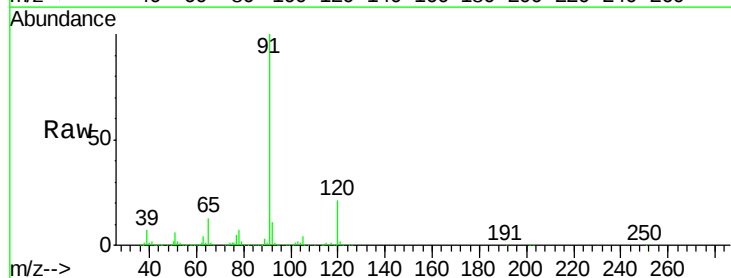
Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.8	14.3
85	64.5	32.8	98.3

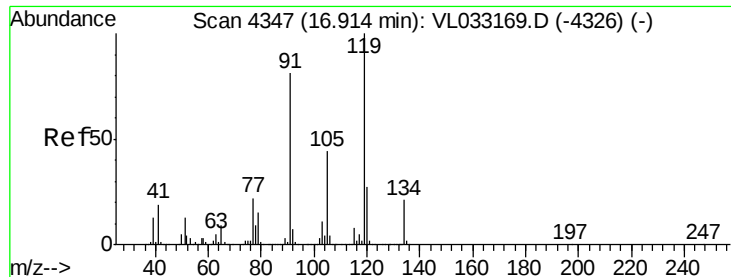


#64
 n-propylbenzene
 Concen: 8.981 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion:120 Resp: 950958

Ion	Ratio	Lower	Upper
120	100		
91	488.2	383.9	575.9

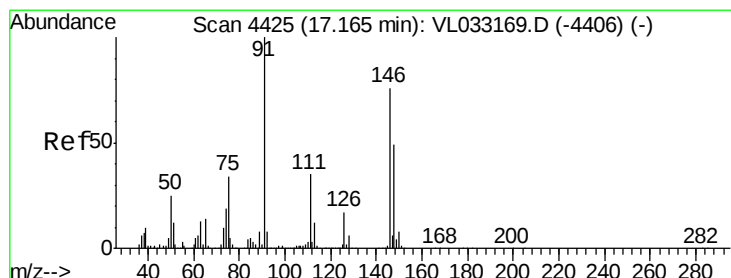
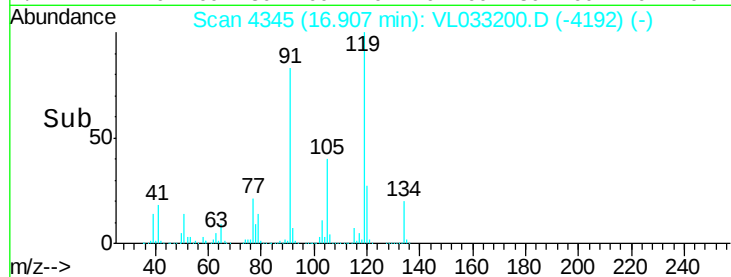
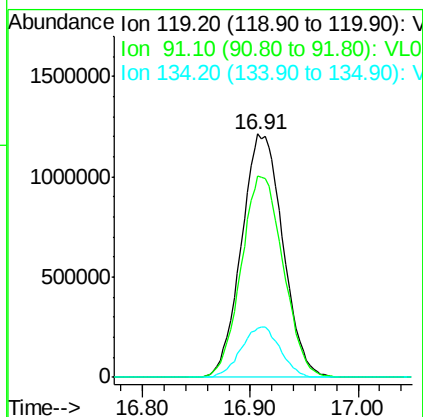
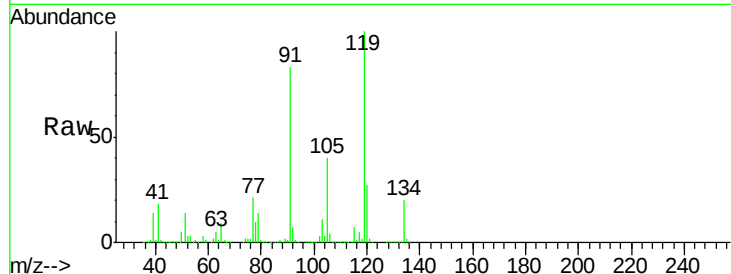




#65
tert-Butylbenzene
Concen: 8.924 ppbv
RT: 16.91 min Scan# 4345
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

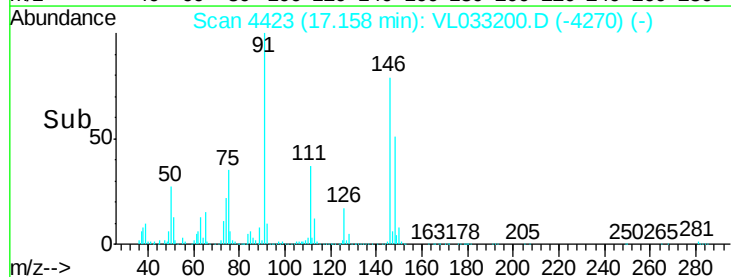
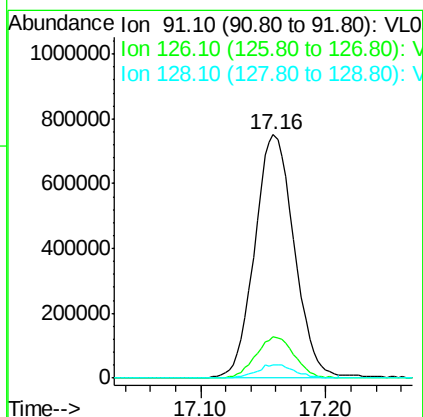
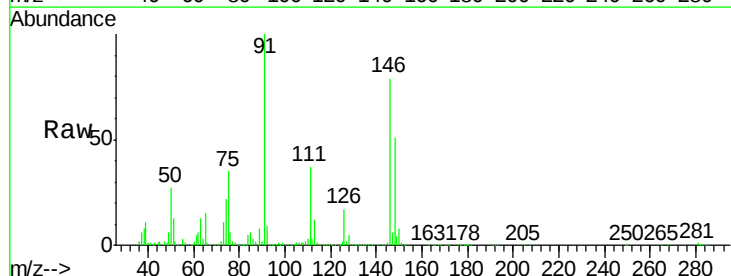
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

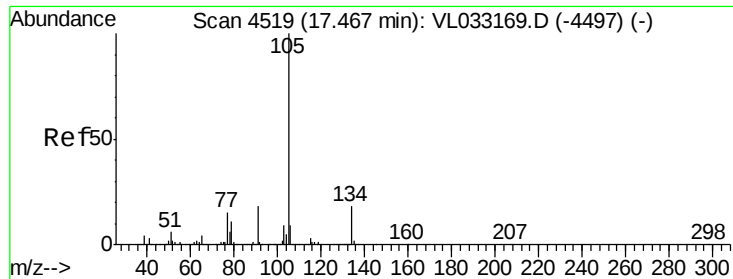
Tot Ion:119 Resp: 3237665
Ion Ratio Lower Upper
119 100
91 84.0 65.7 98.5
134 19.7 15.8 23.6



#66
Benzyl Chloride
Concen: 12.715 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033200.D
Acq: 14 Feb 2019 14:49

Tgt Ion: 91 Resp: 1637750
Ion Ratio Lower Upper
91 100
126 16.6 13.8 20.6
128 5.4 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.963 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

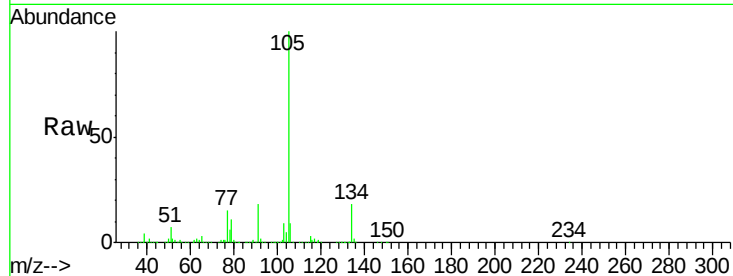
VSTDCCC010

Tot Ion:105 Resp: 4720618

Ion Ratio Lower Upper

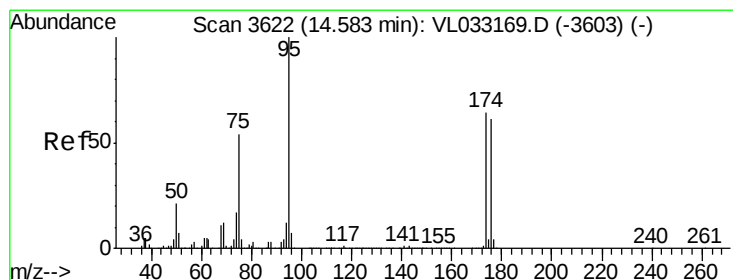
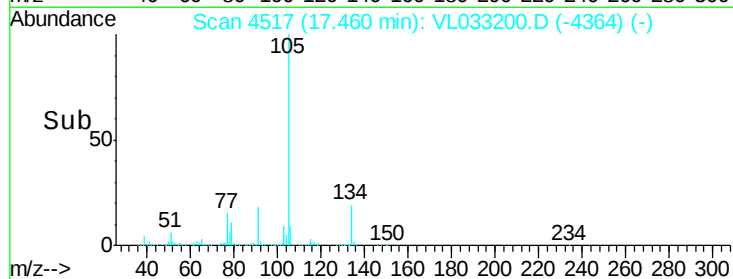
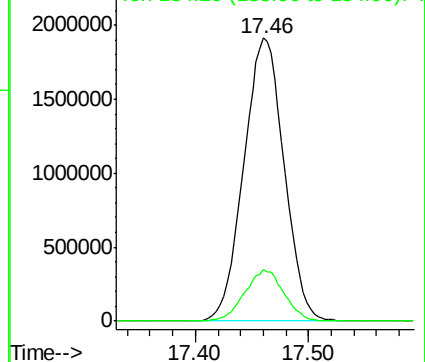
105 100

134 17.7 14.6 22.0



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: 10.022 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

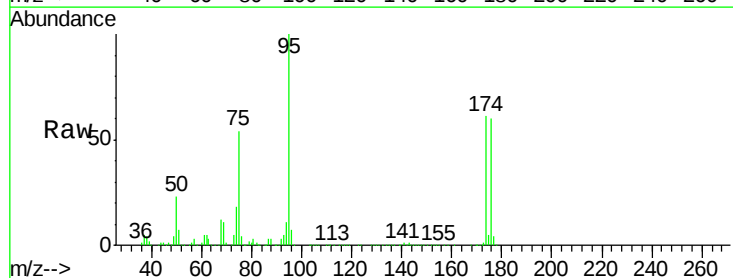
Tgt Ion: 95 Resp: 1735686

Ion Ratio Lower Upper

95 100

174 64.4 51.2 76.8

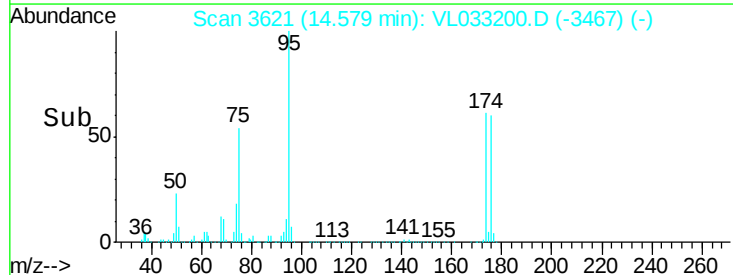
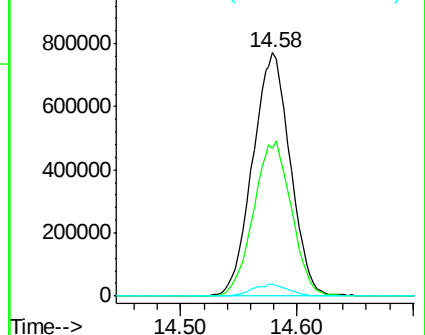
175 4.5 3.8 5.6

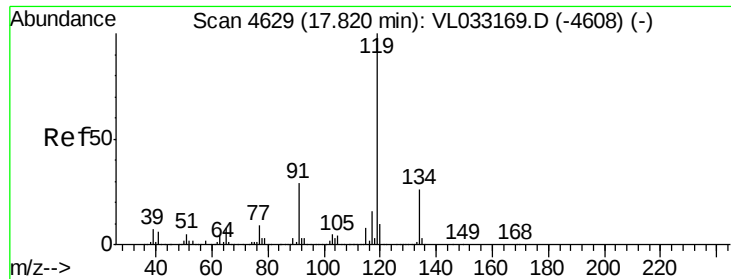


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

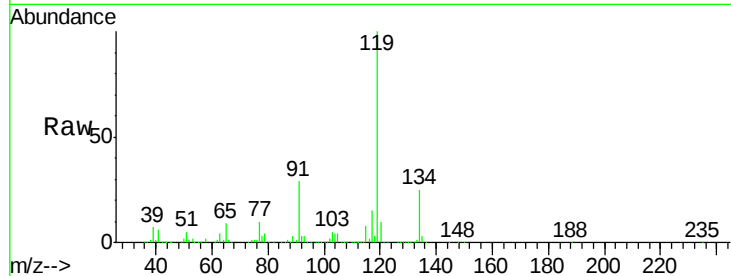




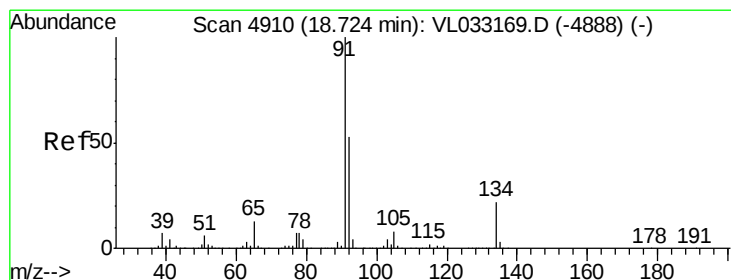
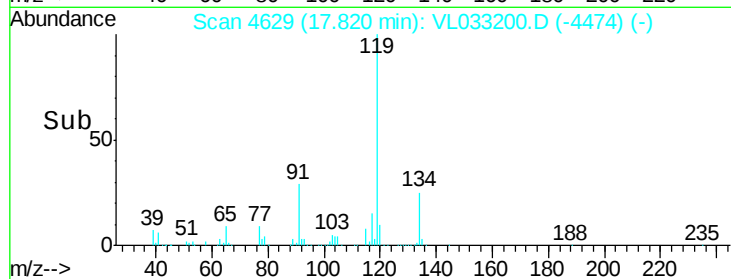
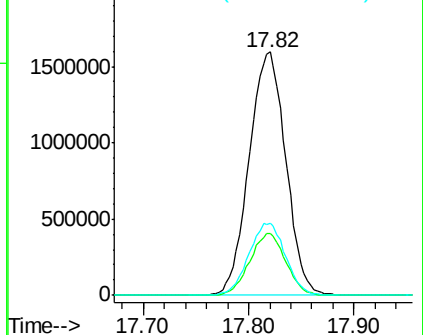
#69
 p-Isopropyltoluene
 Concen: 8.805 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 3862461
 Ion Ratio Lower Upper
 119 100
 134 24.9 20.4 30.6
 91 29.8 23.4 35.2

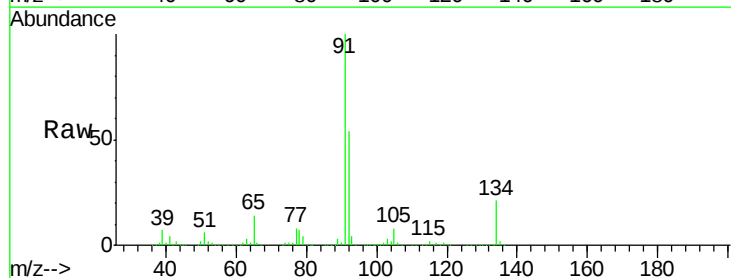


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

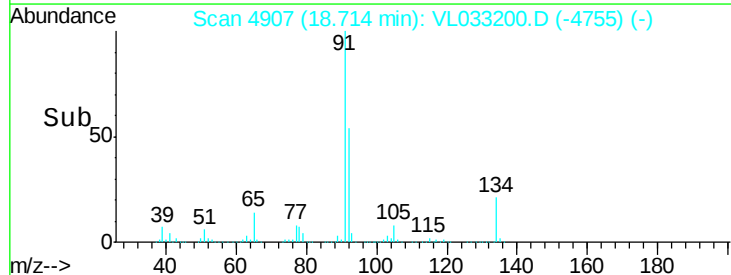
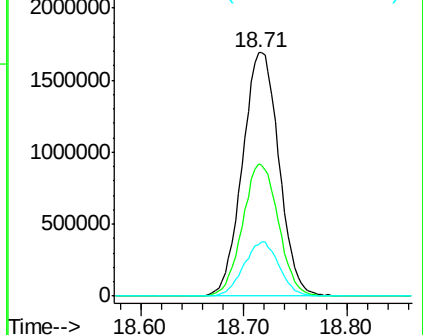


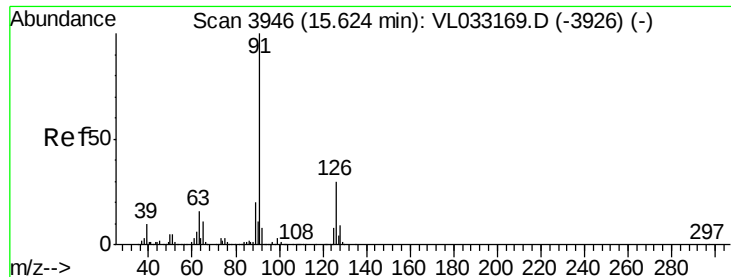
#70
 n-Butylbenzene
 Concen: 8.757 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion: 91 Resp: 4144817
 Ion Ratio Lower Upper
 91 100
 92 53.5 43.0 64.4
 134 21.8 17.5 26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.927 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

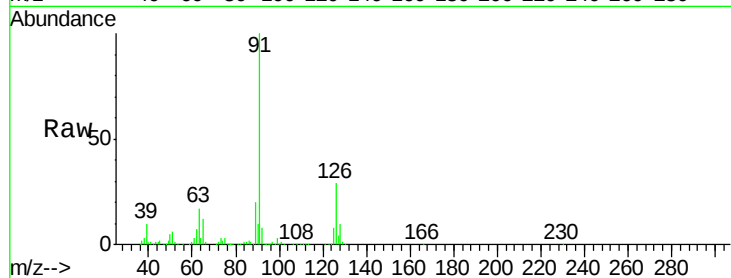
VSTDCCC010

Tot Ion: 91 Resp: 2922047

Ion Ratio Lower Upper

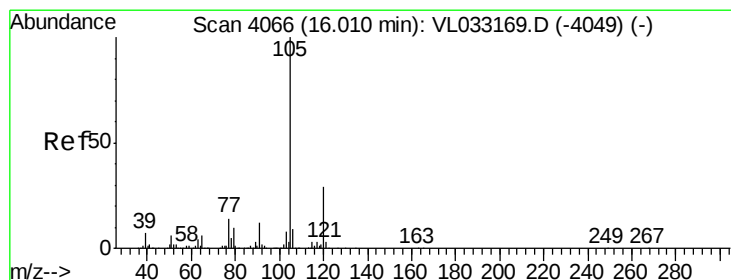
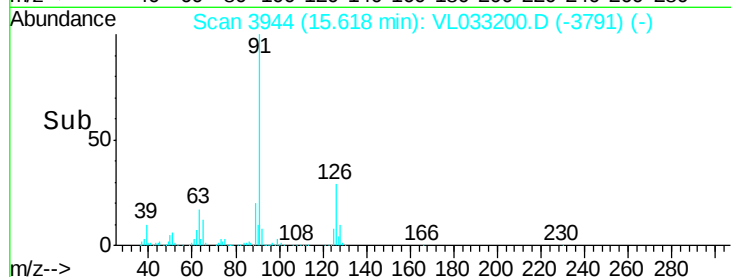
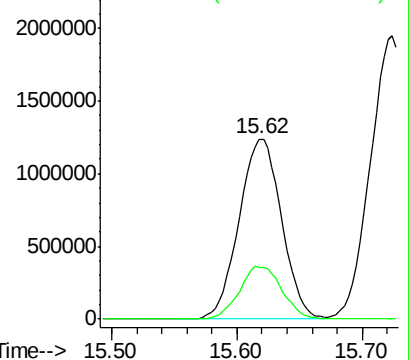
91 100

126 29.4 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.140 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Tgt Ion: 105 Resp: 3111395

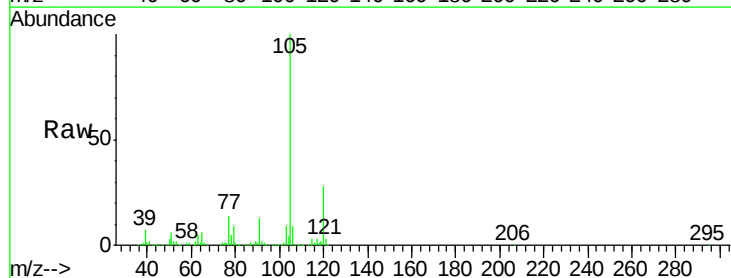
Ion Ratio Lower Upper

105 100

120 28.5 23.1 34.7

91 12.7 9.8 14.6

77 14.0 10.9 16.3

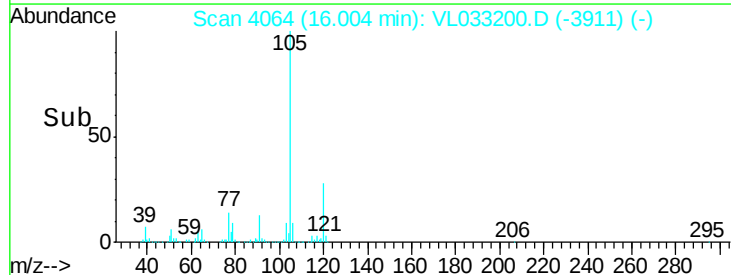
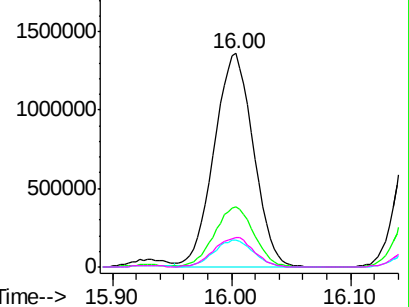


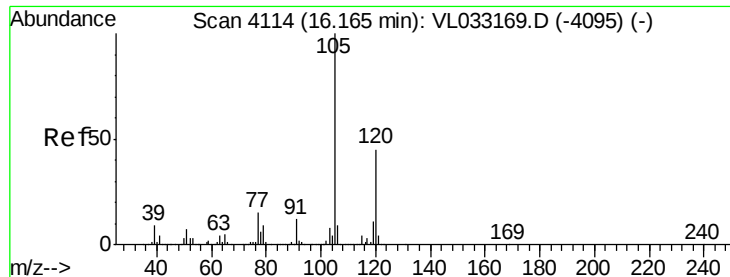
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.155 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

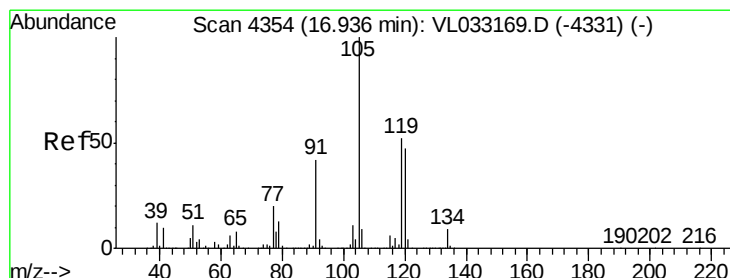
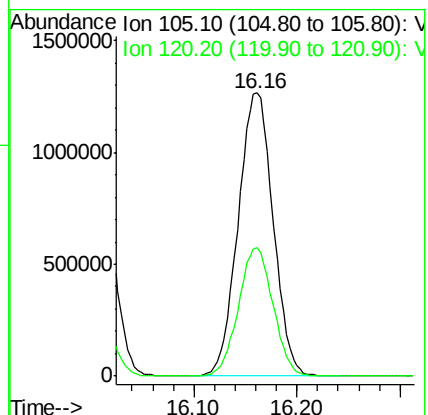
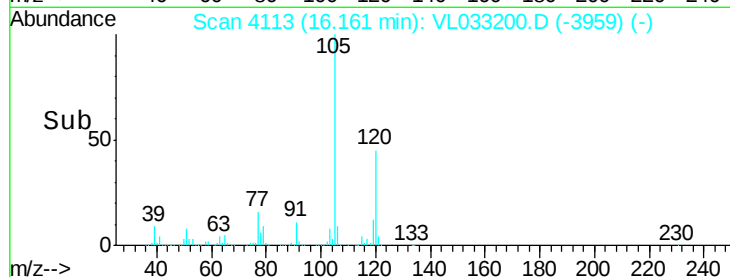
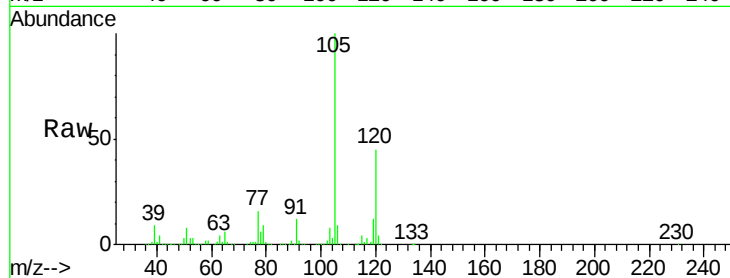
VSTDCCC010

Tot Ion:105 Resp: 2980832

Ion Ratio Lower Upper

105 100

120 45.5 36.2 54.4



#74

1,2,4-Trimethylbenzene

Concen: 8.851 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Tgt Ion:105 Resp: 2990646

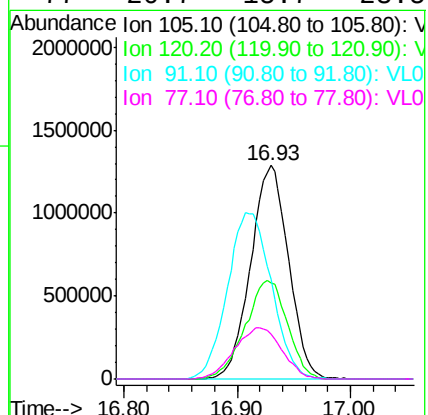
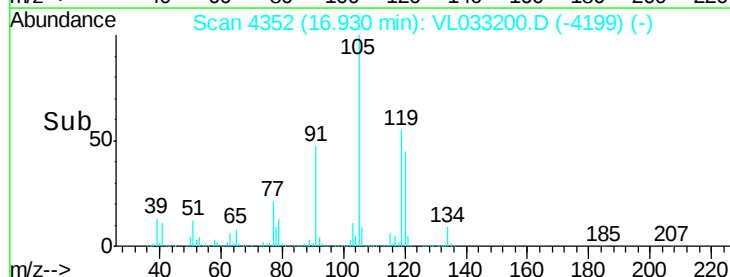
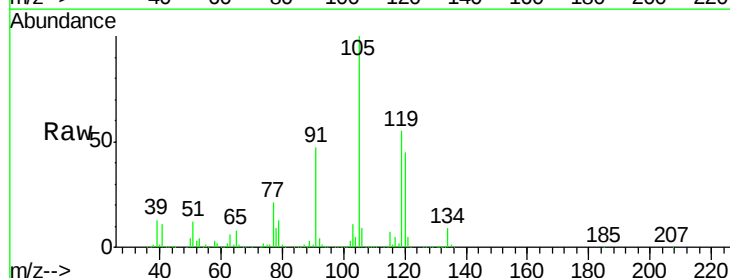
Ion Ratio Lower Upper

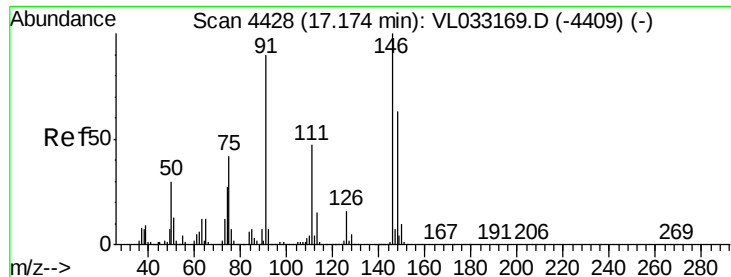
105 100

120 44.8 37.9 56.9

91 46.4 34.0 51.0

77 20.7 15.7 23.5

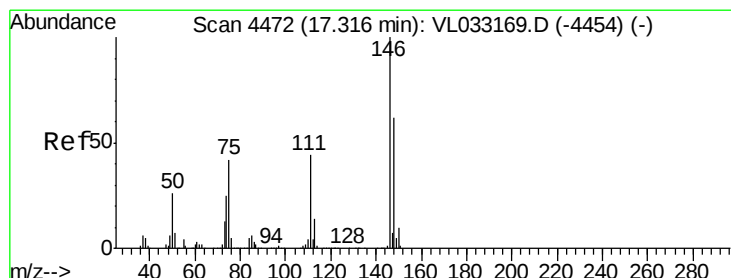
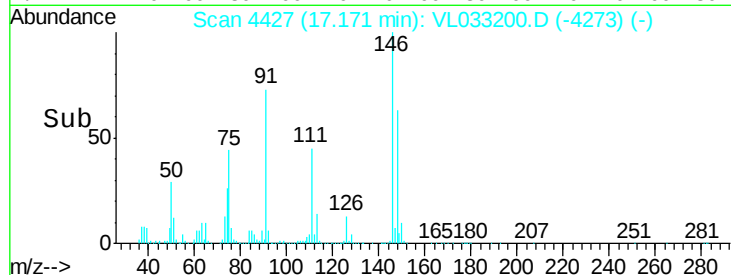
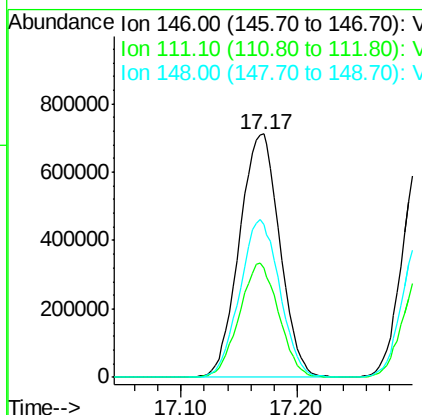
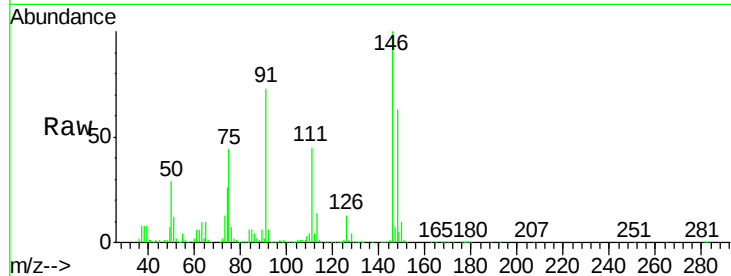




#75
 1,3-Dichlorobenzene
 Concen: 8.860 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.00 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

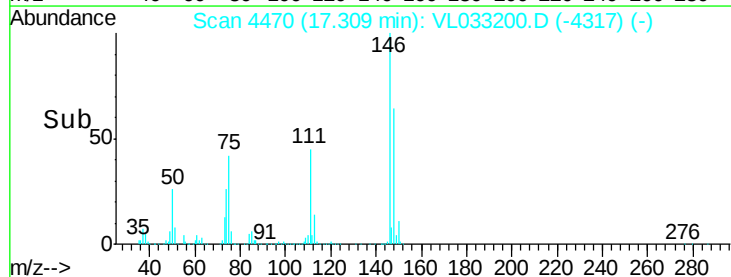
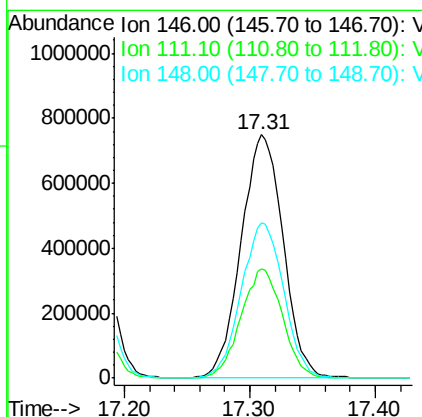
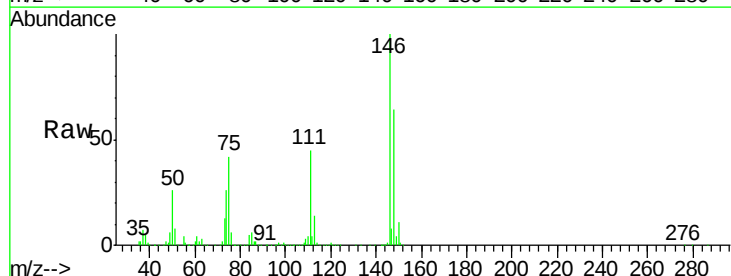
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

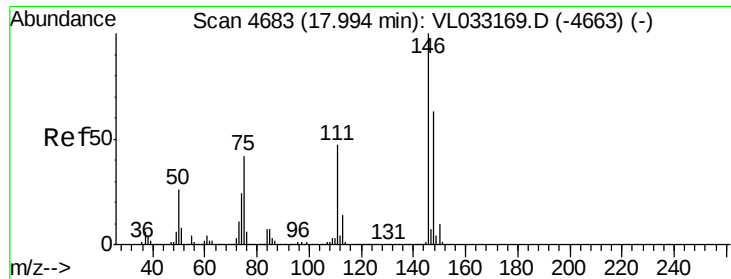
Tot Ion:146 Resp: 1726349
 Ion Ratio Lower Upper
 146 100
 111 45.7 23.2 69.6
 148 64.1 31.8 95.4



#76
 1,4-Dichlorobenzene
 Concen: 9.063 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033200.D
 Acq: 14 Feb 2019 14:49

Tgt Ion:146 Resp: 1748917
 Ion Ratio Lower Upper
 146 100
 111 44.5 22.4 67.0
 148 64.4 31.9 95.9





#77

1,2-Dichlorobenzene

Concen: 8.995 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

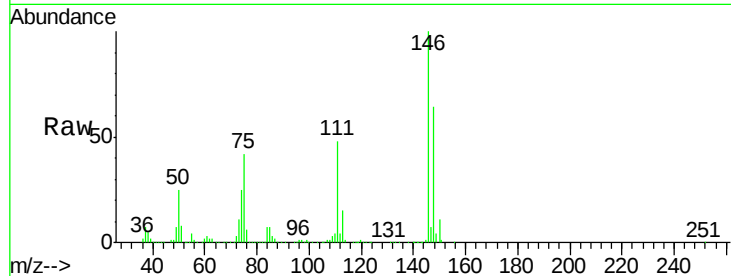
Tot Ion:146 Resp: 1731794

Ion Ratio Lower Upper

146 100

111 47.3 23.5 70.6

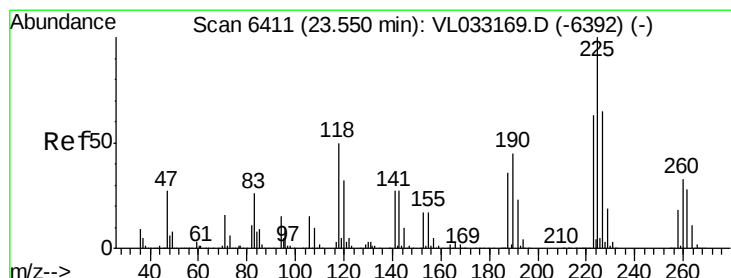
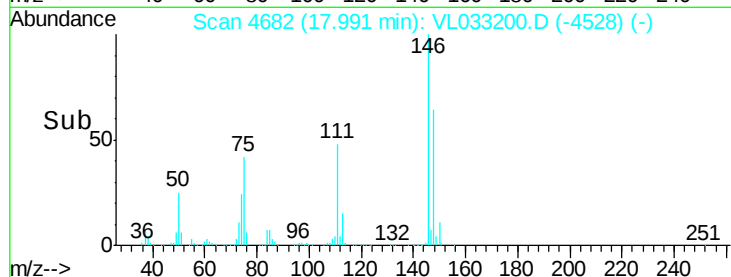
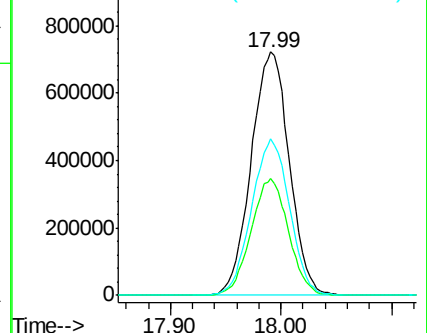
148 64.1 31.9 95.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 12.871 ppbv

RT: 23.55 min Scan# 6410

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

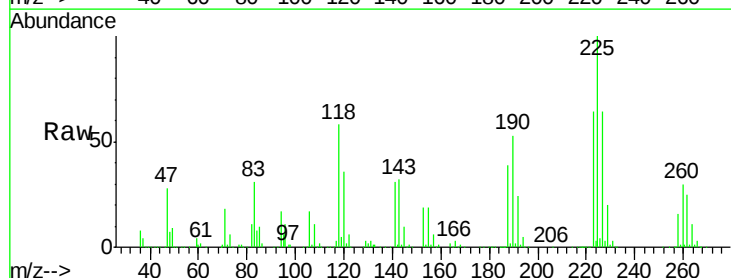
Tgt Ion:225 Resp: 1233553

Ion Ratio Lower Upper

225 100

223 62.8 50.6 75.8

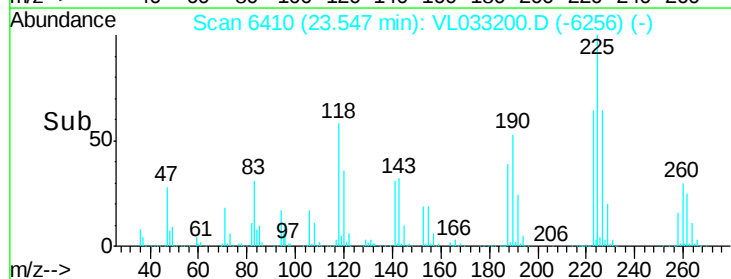
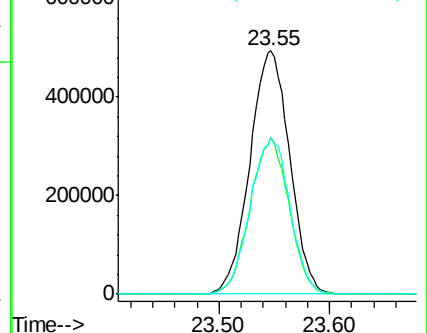
227 64.0 51.4 77.2

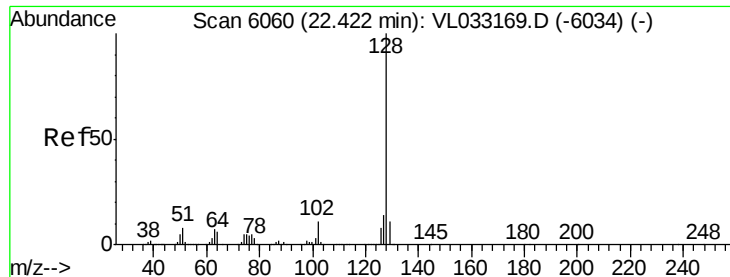


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.309 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

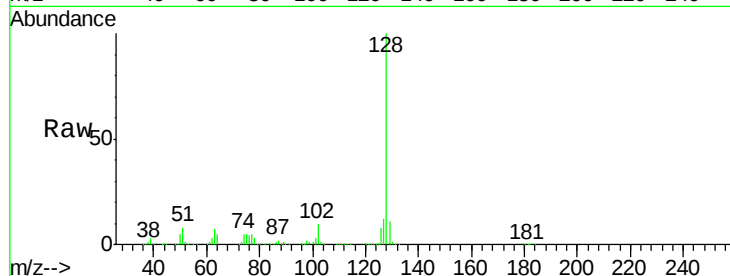
Tot Ion:128 Resp: 3016264

Ion Ratio Lower Upper

128 100

127 12.1 11.0 16.4

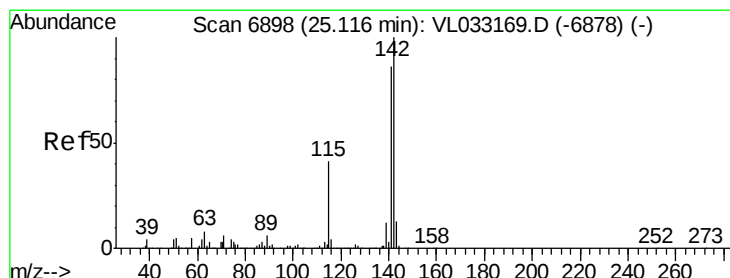
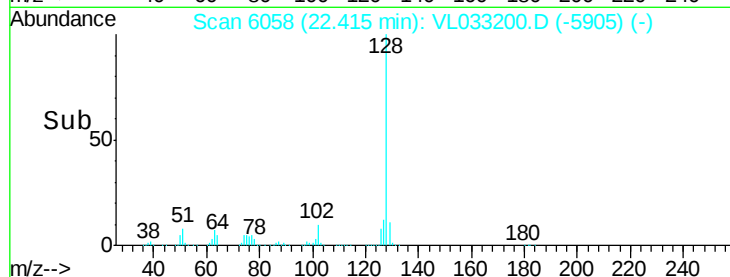
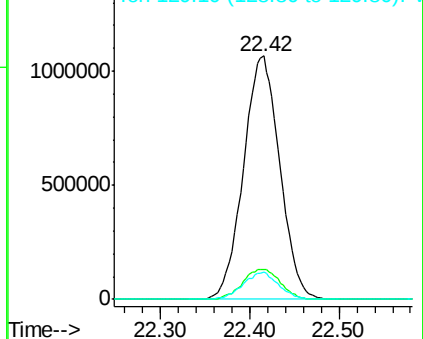
129 11.0 8.6 12.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 6.856 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

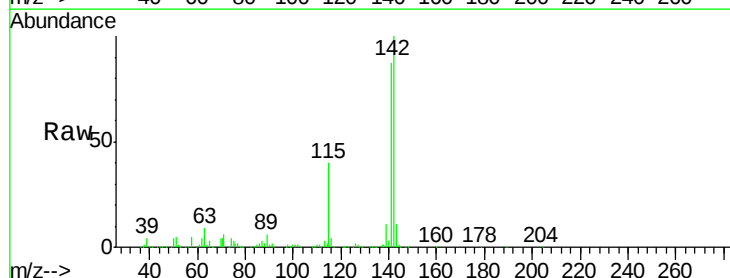
Tgt Ion:142 Resp: 1260216

Ion Ratio Lower Upper

142 100

141 85.0 67.7 101.5

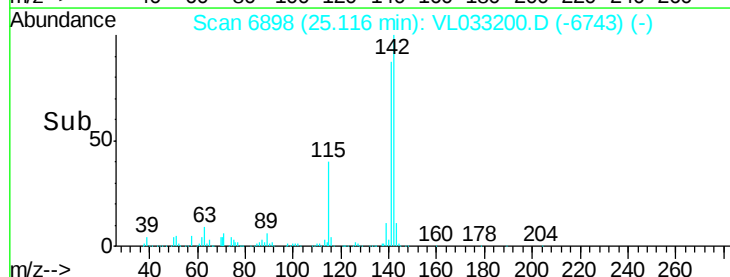
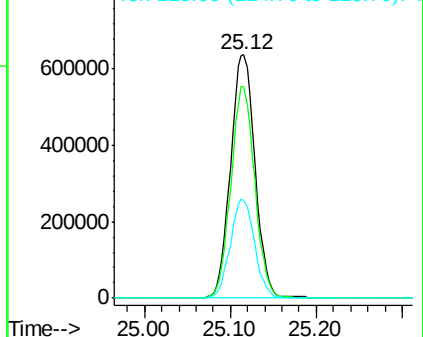
115 40.7 32.7 49.1

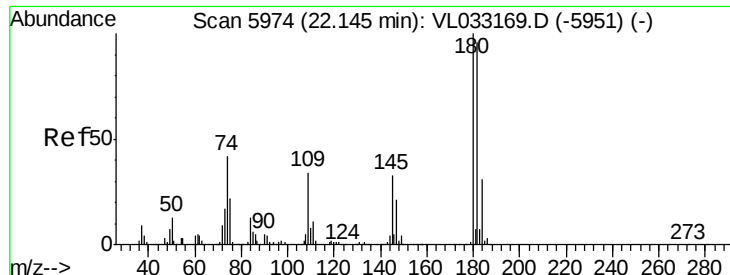


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 8.155 ppbv

RT: 22.14 min Scan# 5972

Delta R.T. -0.01 min

Lab File: VL033200.D

Acq: 14 Feb 2019 14:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

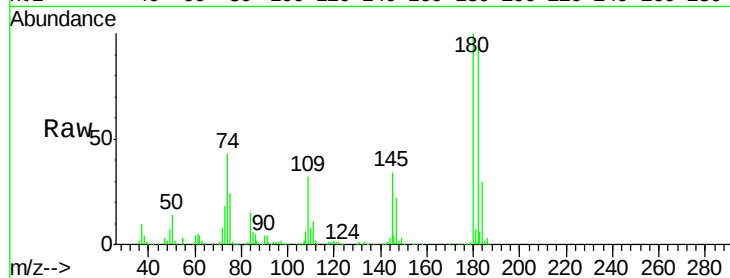
Tot Ion:180 Resp: 1504246

Ion Ratio Lower Upper

180 100

182 94.8 75.8 113.8

184 30.2 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

