

Data File : VL034171.D
Acq On : 17 Sep 2019 4:51
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Sep 17 06:01:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 05:58:04 2019
QLast Update : Tue Sep 17 05:58:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1334626	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2260462	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2389349	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	2008380	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	500233	2.363	ppbv 93
3) Chlorodifluoromethane	2.98	51	323809	2.145	ppbv 97
4) Chloromethane	3.13	50	184710	1.987	ppbv 97
5) Vinyl Chloride	3.25	62	166163	1.960	ppbv 92
6) Bromomethane	3.47	94	79377	1.919	ppbv 98
7) Chloroethane	3.56	64	57520	1.985	ppbv 97
8) Dichlorotetrafluoroethane	3.18	85	371147	2.101	ppbv 98
9) Propene	3.00	41	160829	1.951	ppbv 100
10) Heptane	8.18	43	428008	1.991	ppbv 98
11) Trichlorofluoromethane	3.96	101	386993	2.153	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	245497	2.055	ppbv 98
13) Ethanol	3.60	45	13170	0.819	ppbv # 36
14) Bromoethene	3.74	108	100046	1.940	ppbv 100
15) Acetone	3.85	43	394640	2.449	ppbv 99
16) 1,3-Butadiene	3.32	39	170673	2.101	ppbv 94
17) tert-Butyl alcohol	4.31	59	174124	1.499	ppbv 100
18) 1,1-Dichloroethene	4.30	96	110099	2.028	ppbv 97
19) Isopropyl Alcohol	3.98	45	174280	1.616	ppbv # 97
20) Methylene Chloride	4.36	84	110278	2.090	ppbv 93
21) Allyl Chloride	4.42	41	209569	1.982	ppbv 98
22) trans-1,2-Dichloroethene	4.91	96	102853	1.886	ppbv 97
23) Vinyl Acetate	5.10	43	573878	2.116	ppbv 98
24) 1,1-Dichloroethane	5.03	63	375079	2.075	ppbv 98
25) Ethyl Acetate	5.71	43	729550	2.073	ppbv 98
26) Hexane	5.72	57	308713	1.974	ppbv 98
27) Carbon Disulfide	4.57	76	274300	1.954	ppbv 97
28) Methyl tert-Butyl Ether	5.06	73	440578	1.944	ppbv 98
29) Chloroform	5.78	83	426238	2.020	ppbv 96
30) Cyclohexane	7.18	84	210622	1.884	ppbv 85
31) cis-1,2-Dichloroethene	5.58	61	298184	1.989	ppbv 98
32) 1,1,1-Trichloroethane	6.56	97	384910	1.929	ppbv 99
34) 2-Butanone	5.27	43	493620	2.234	ppbv 100
35) Carbon Tetrachloride	7.06	117	388436	2.175	ppbv 96
36) Benzene	6.94	78	532567	2.063	ppbv 96
37) 1,2-Dichloroethane	6.35	62	377568	2.309	ppbv 100
38) Trichloroethene	7.89	130	185003	1.912	ppbv 96
39) 1,2-Dichloropropane	7.67	63	108332	0.971	ppbv 96
40) 1,4-Dioxane	7.90	88	59752	1.479	ppbv # 86
41) Tetrahydrofuran	6.09	42	154643	1.175	ppbv # 48
42) Bromodichloromethane	7.85	83	460769	2.201	ppbv 99
43) Methyl Methacrylate	8.07	69	223566	2.097	ppbv 98

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VSTDIC002

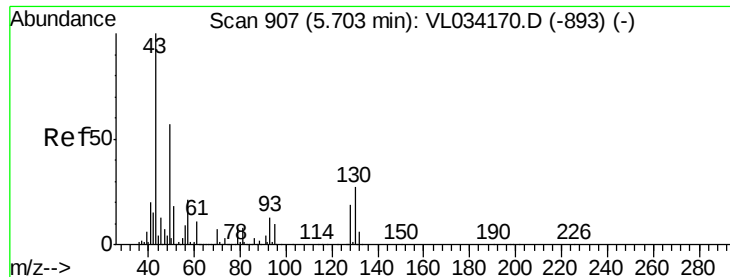
Quant Time: Sep 17 06:01:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 05:58:04 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	1052093	2.186	ppbv	98
45) t-1,3-Dichloropropene	9.34	75	258103	2.048	ppbv	96
46) cis-1,3-Dichloropropene	8.77	75	318527	2.080	ppbv	94
47) 1,1,2-Trichloroethane	9.54	97	213453	2.113	ppbv	95
48) Dibromochloromethane	10.37	129	342654	2.243	ppbv	99
49) Bromoform	13.12	173	283772	2.140	ppbv	99
50) 4-Methyl-2-Pentanone	8.81	43	730016	2.170	ppbv	97
51) 2-Hexanone	10.21	43	639950	2.206	ppbv #	95
52) Tetrachloroethene	11.30	164	165903	1.824	ppbv	94
53) Toluene	9.87	91	592063	2.071	ppbv	98
54) 1,2-Dibromoethane	10.69	107	319460	2.115	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.20	131	230078	2.220	ppbv #	1
57) Chlorobenzene	12.23	112	438655	2.127	ppbv	98
58) Ethyl Benzene	12.79	91	833001	2.122	ppbv	99
59) m/p-Xylene	13.07	91	815896	2.548	ppbv #	55
60) o-Xylene	13.78	91	284595	0.891	ppbv #	9
61) Styrene	13.61	104	509794	2.146	ppbv	98
62) Isopropylbenzene	14.75	105	915672	2.203	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.76	83	520672	1.997	ppbv	100
64) n-propylbenzene	15.65	120	137871	1.322	ppbv #	1
65) tert-Butylbenzene	16.83	119	802464	2.232	ppbv	99
66) Benzyl Chloride	17.08	91	262649	2.020	ppbv	98
67) sec-Butylbenzene	17.39	105	1162062	2.244	ppbv	98
69) p-Isopropyltoluene	17.74	119	943944	2.277	ppbv	99
70) n-Butylbenzene	18.64	91	1099349	2.321	ppbv	97
71) 2-Chlorotoluene	15.54	91	742868	2.187	ppbv	99
72) 4-Ethyltoluene	15.93	105	799114	2.214	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	783706	2.235	ppbv	100
74) 1,2,4-Trimethylbenzene	16.85	105	817739	2.257	ppbv #	91
75) 1,3-Dichlorobenzene	17.09	146	427629	2.227	ppbv	100
76) 1,4-Dichlorobenzene	17.23	146	437047	2.176	ppbv	98
77) 1,2-Dichlorobenzene	17.91	146	438952	2.236	ppbv	98
78) Hexachloro-1,3-Butadiene	23.47	225	299972	2.264	ppbv	98
79) Naphthalene	22.32	128	747924	2.307	ppbv #	94
80) Naphthalene,2-methyl-	25.06	142	359863	3.278	ppbv	98
81) 1,2,4-Trichlorobenzene	22.05	180	164930	0.931	ppbv #	1

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

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VSTDIC002

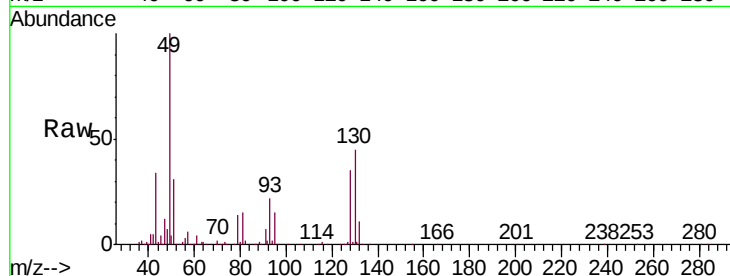
Tgt Ion: 49 Resp: 1334626

Ion Ratio Lower Upper

49 100

128 35.2 17.6 52.9

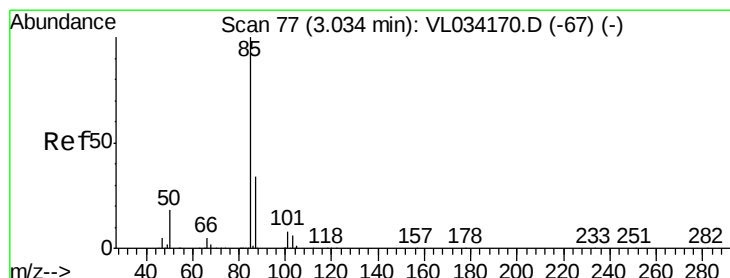
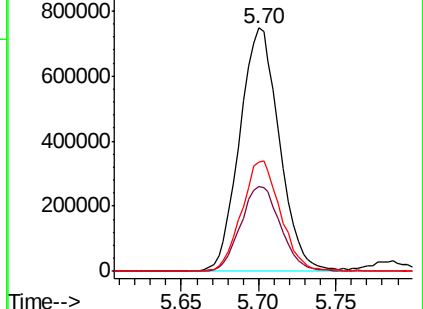
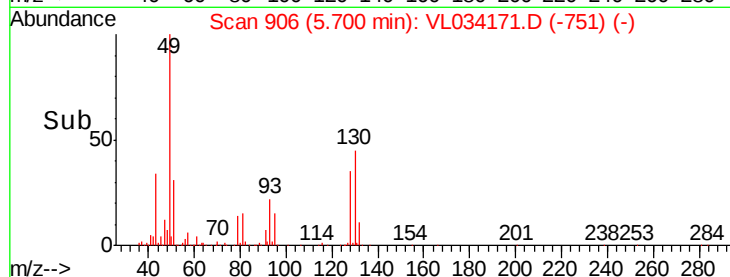
130 44.8 22.3 66.9



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: 2.363 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034171.D

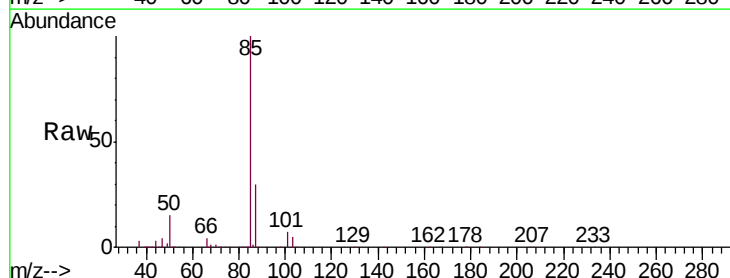
Acq: 17 Sep 2019 4:51

Tgt Ion: 85 Resp: 500233

Ion Ratio Lower Upper

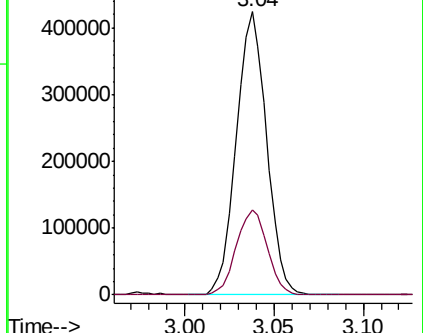
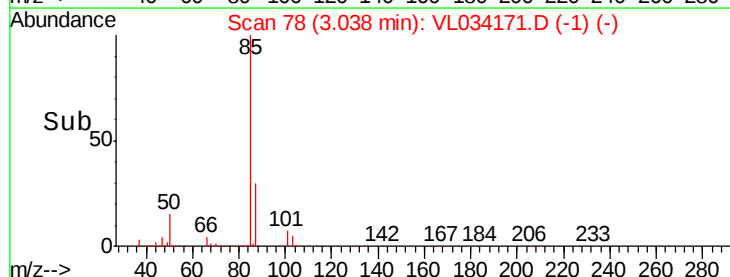
85 100

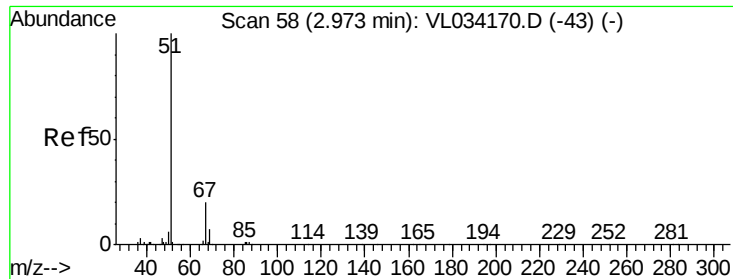
87 29.9 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.145 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

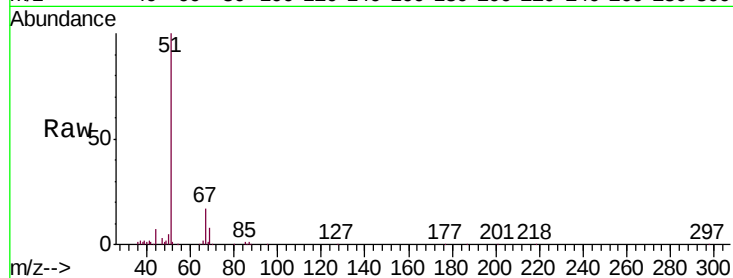
VSTDICC002

Tgt Ion: 51 Resp: 323809

Ion Ratio Lower Upper

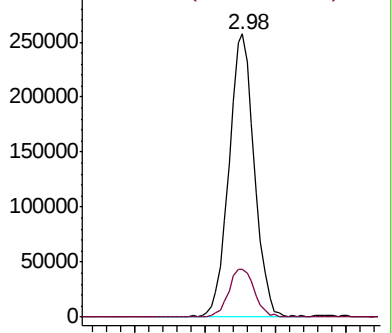
51 100

67 17.3 14.8 22.2

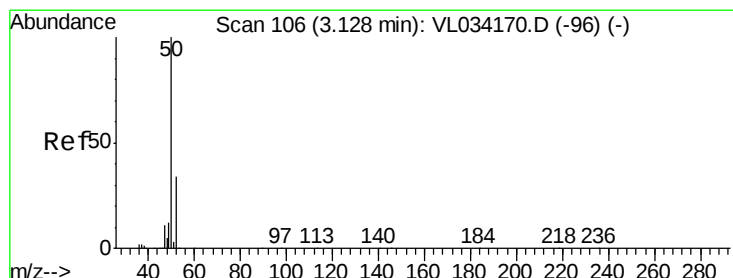
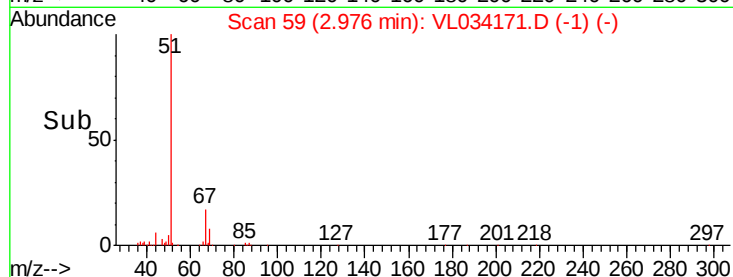


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 1.987 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL034171.D

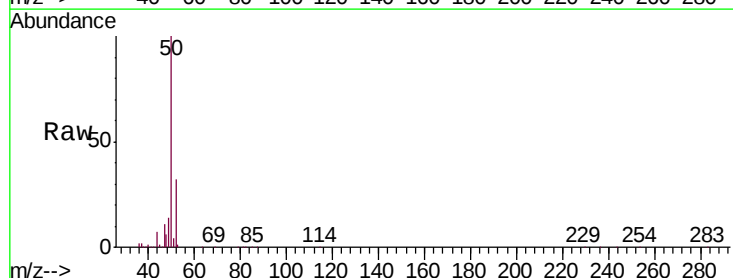
Acq: 17 Sep 2019 4:51

Tgt Ion: 50 Resp: 184710

Ion Ratio Lower Upper

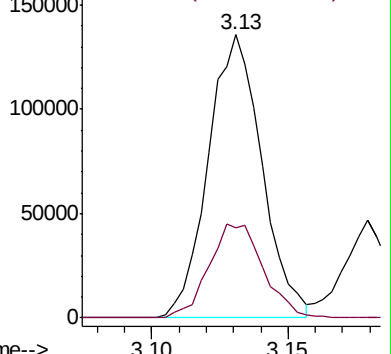
50 100

52 32.4 27.1 40.7

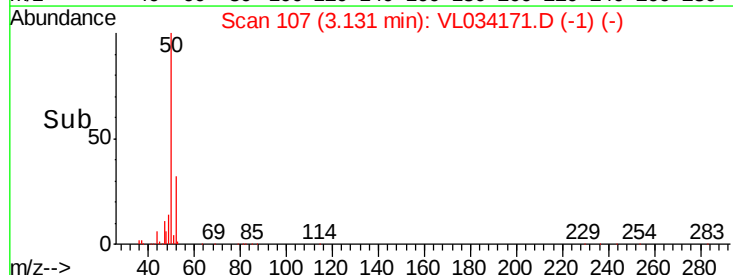


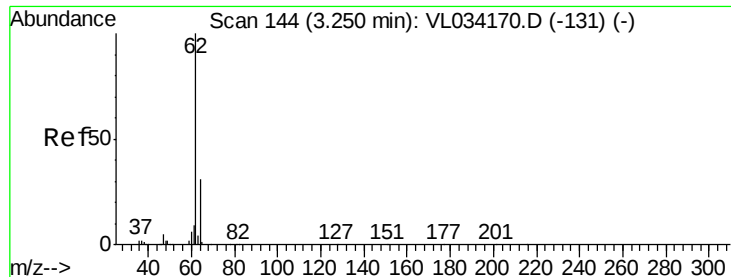
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 1.960 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

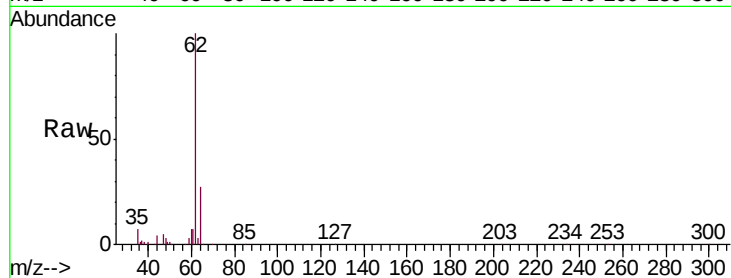
VSTDIC002

Tgt Ion: 62 Resp: 166163

Ion Ratio Lower Upper

62 100

64 27.2 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

150000

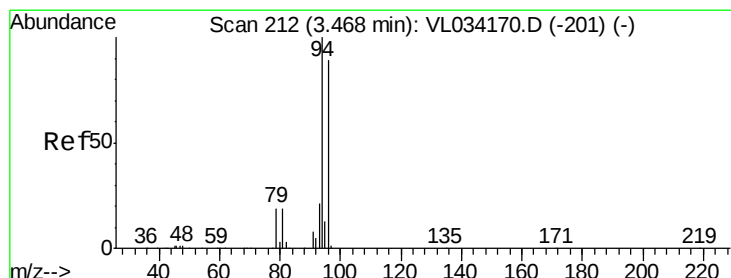
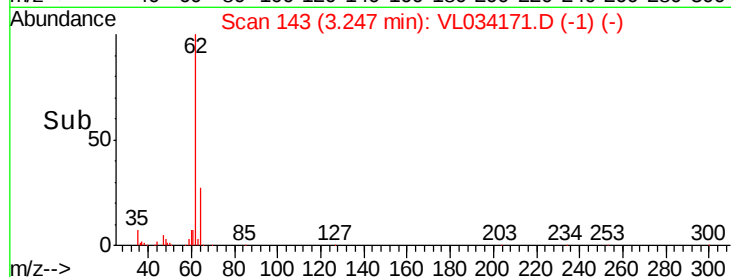
100000

50000

0

3.20 3.25 3.30

Time-->



#6

Bromomethane

Concen: 1.919 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL034171.D

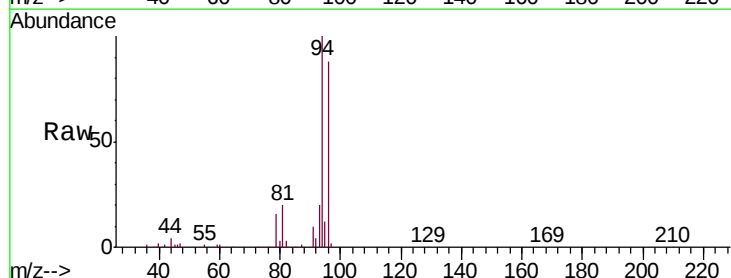
Acq: 17 Sep 2019 4:51

Tgt Ion: 94 Resp: 79377

Ion Ratio Lower Upper

94 100

96 86.9 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

60000

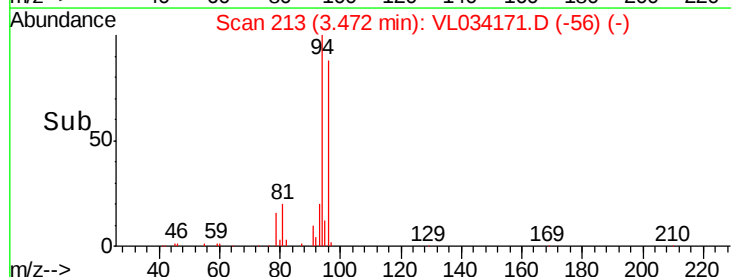
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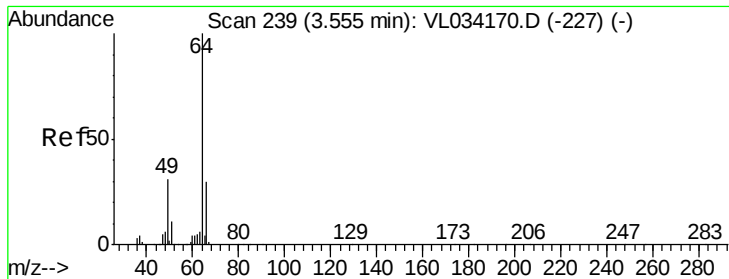
20000

0

3.45 3.50

Time-->





#7

Chloroethane

Concen: 1.985 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

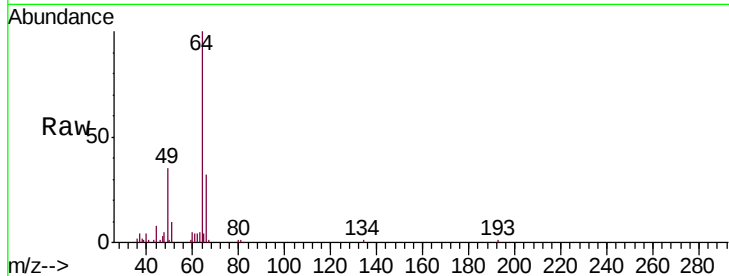
VSTDIC002

Tgt Ion: 64 Resp: 57520

Ion Ratio Lower Upper

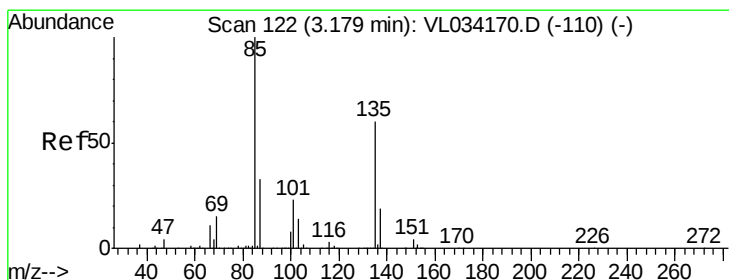
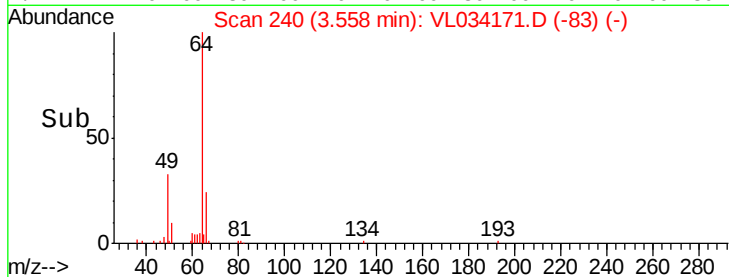
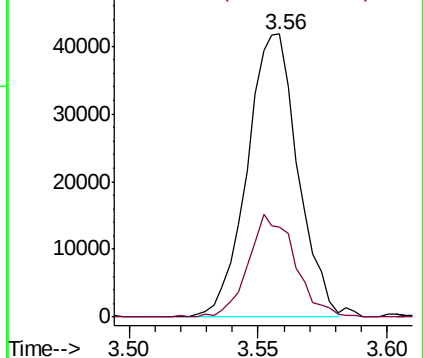
64 100

66 31.8 24.2 36.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.101 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL034171.D

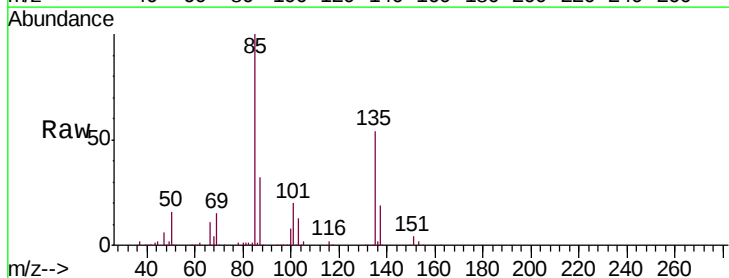
Acq: 17 Sep 2019 4:51

Tgt Ion: 85 Resp: 371147

Ion Ratio Lower Upper

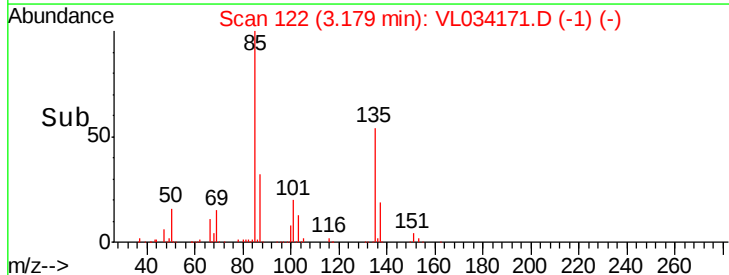
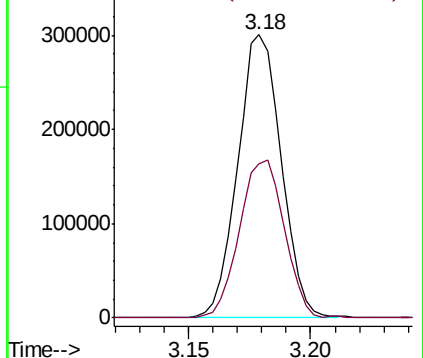
85 100

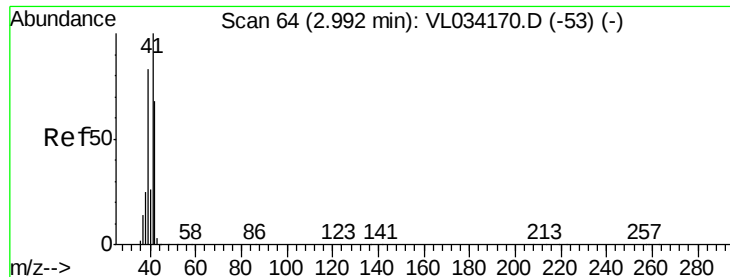
135 57.6 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.951 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

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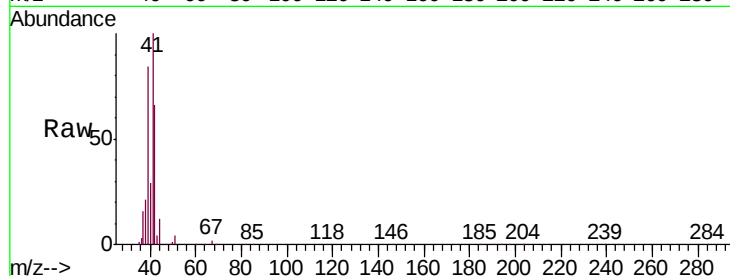
VSTDIC002

Tgt Ion: 41 Resp: 160829

Ion Ratio Lower Upper

41 100

42 69.8 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

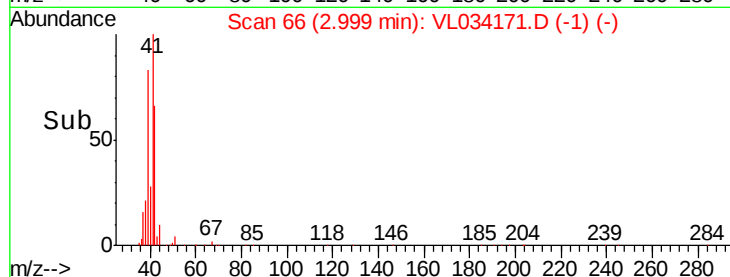
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100000

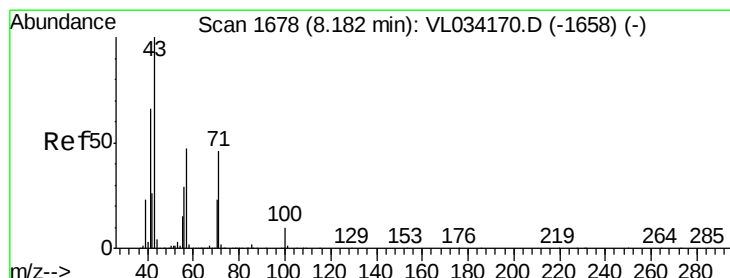
50000

0

Time-->



Time-->



#10

Heptane

Concen: 1.991 ppbv

RT: 8.18 min Scan# 1677

Delta R.T. -0.00 min

Lab File: VL034171.D

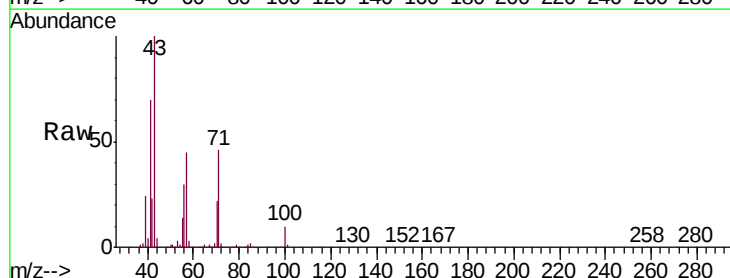
Acq: 17 Sep 2019 4:51

Tgt Ion: 43 Resp: 428008

Ion Ratio Lower Upper

43 100

57 45.8 37.5 56.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

250000

200000

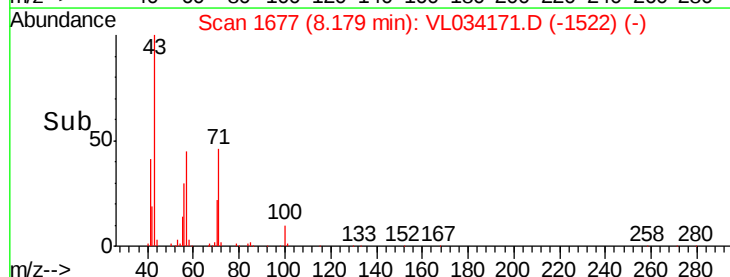
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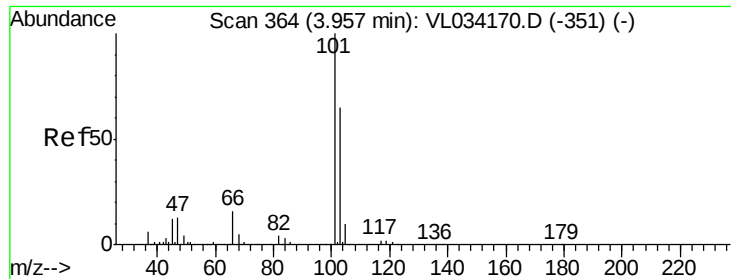
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0

Time-->



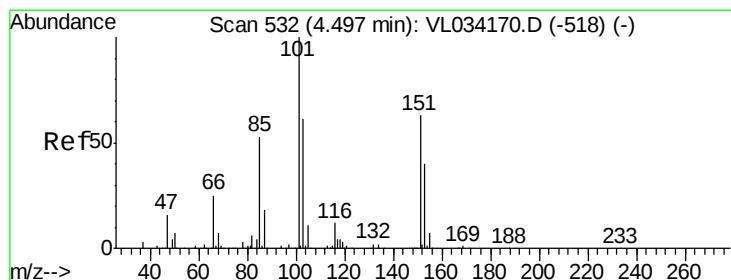
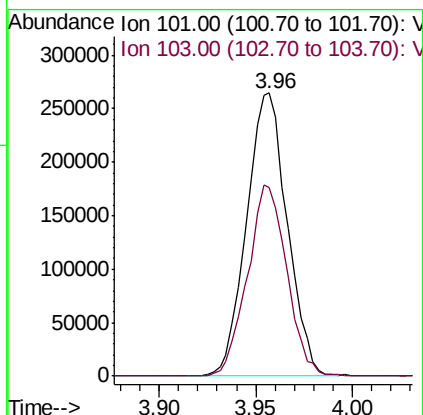
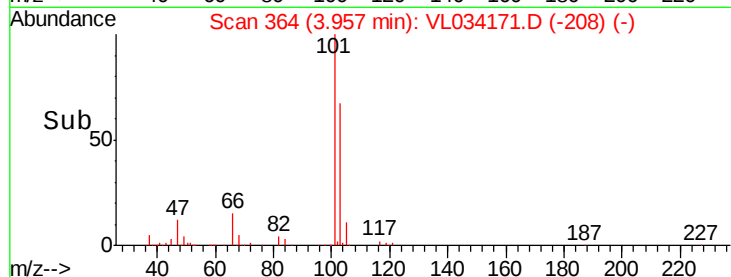
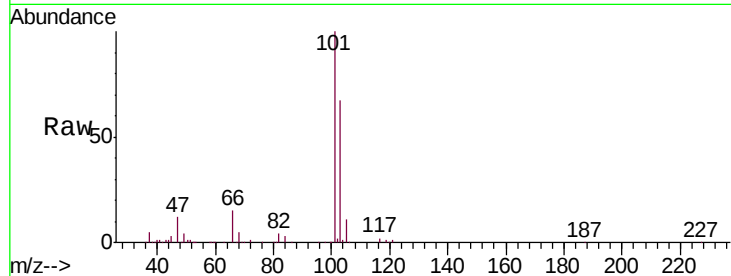
Time-->



#11
 Trichlorofluoromethane
 Concen: 2.153 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

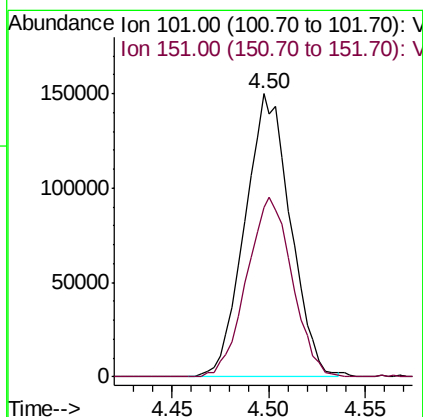
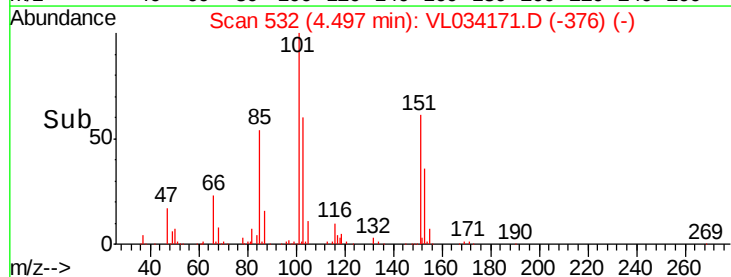
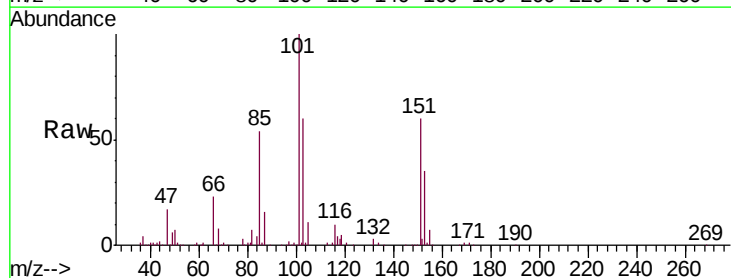
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

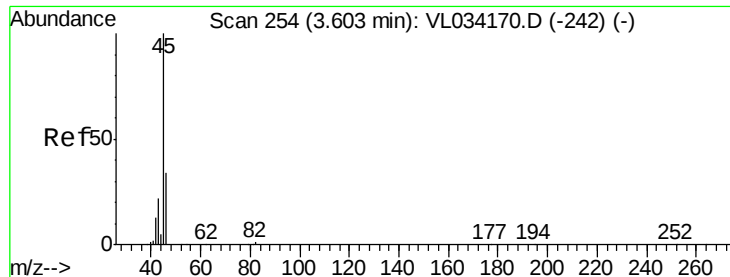
Tgt Ion:101 Resp: 386993
 Ion Ratio Lower Upper
 101 100
 103 66.9 52.1 78.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.055 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion:101 Resp: 245497
 Ion Ratio Lower Upper
 101 100
 151 63.2 51.8 77.8





#13

Ethanol

Concen: 0.819 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

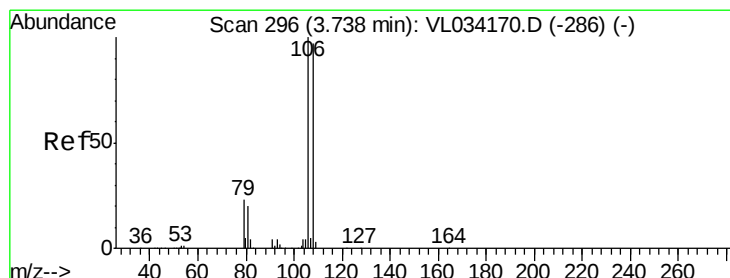
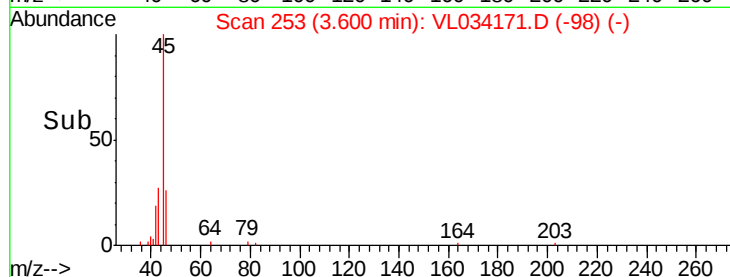
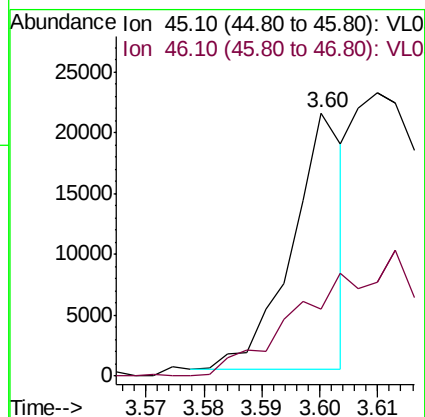
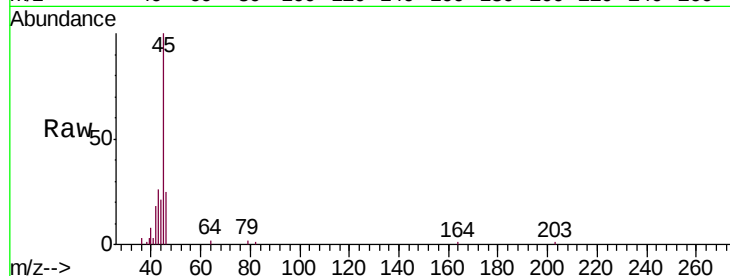
VSTDIC002

Tgt Ion: 45 Resp: 13170

Ion Ratio Lower Upper

45 100

46 0.0 15.5 61.9#



#14

Bromoethene

Concen: 1.940 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

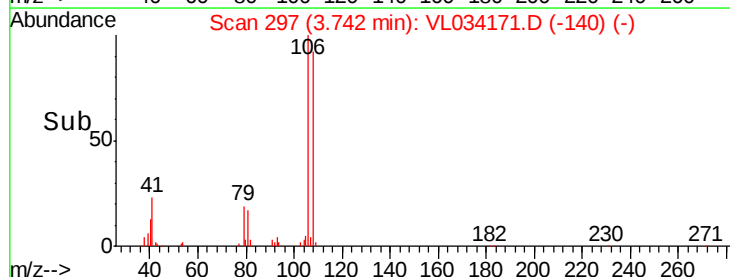
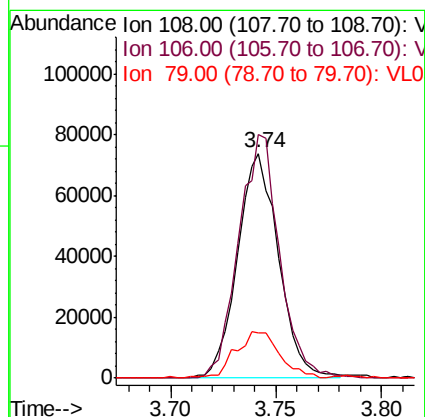
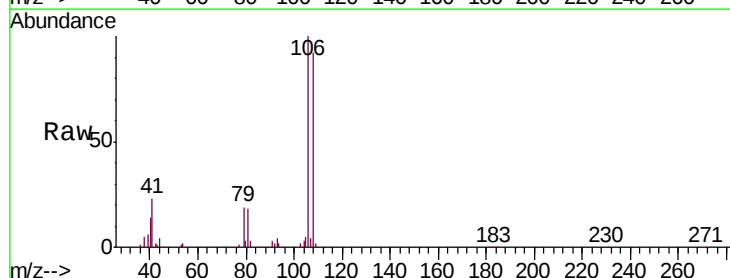
Tgt Ion: 108 Resp: 100046

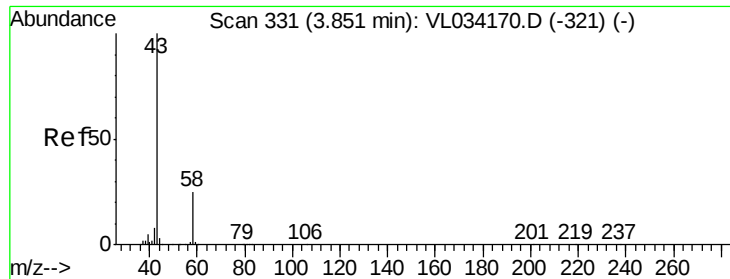
Ion Ratio Lower Upper

108 100

106 108.1 86.2 129.4

79 23.3 18.6 27.8





#15

Acetone

Concen: 2.449 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

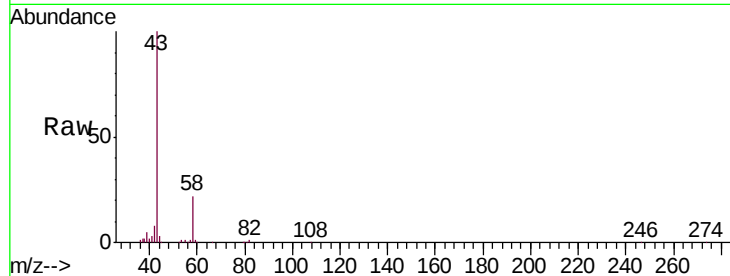
VSTDIC002

Tgt Ion: 43 Resp: 394640

Ion Ratio Lower Upper

43 100

58 25.1 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

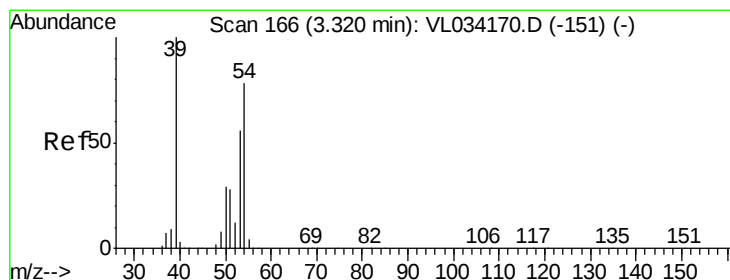
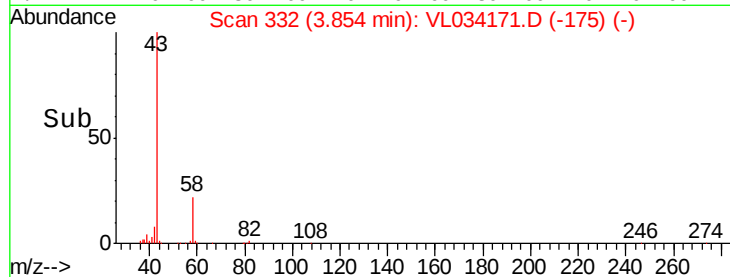
300000

200000

100000

0

Time--> 3.80 3.85 3.90



#16

1,3-Butadiene

Concen: 2.101 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL034171.D

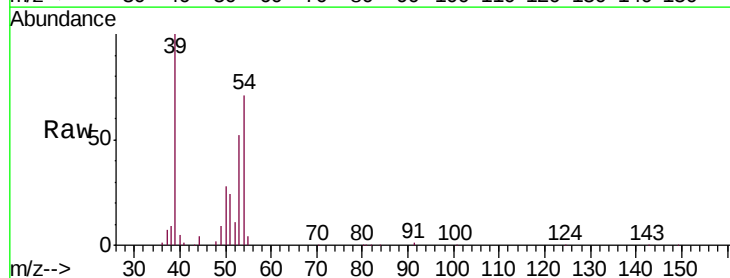
Acq: 17 Sep 2019 4:51

Tgt Ion: 39 Resp: 170673

Ion Ratio Lower Upper

39 100

54 73.7 63.4 95.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

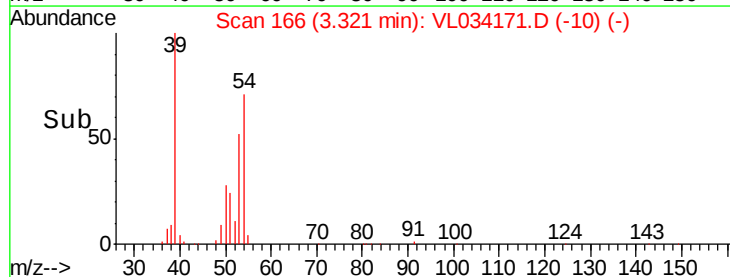
150000

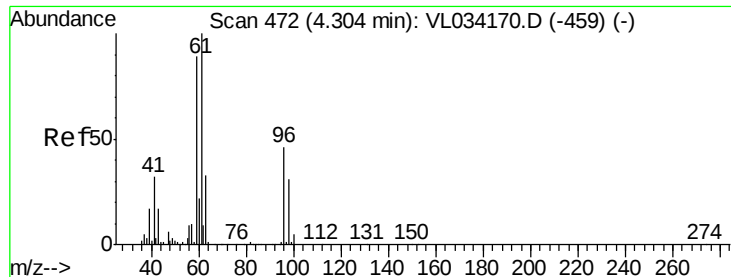
100000

50000

0

Time--> 3.25 3.30 3.35

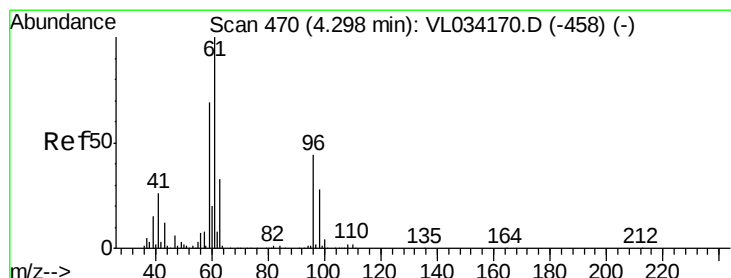
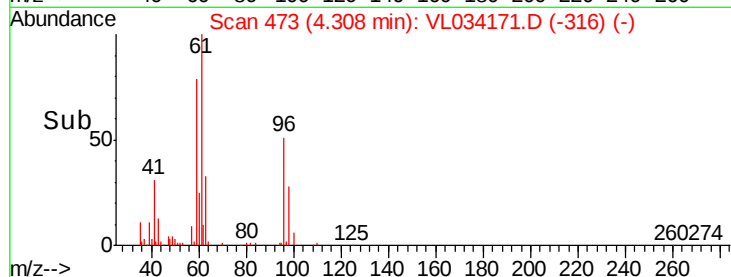
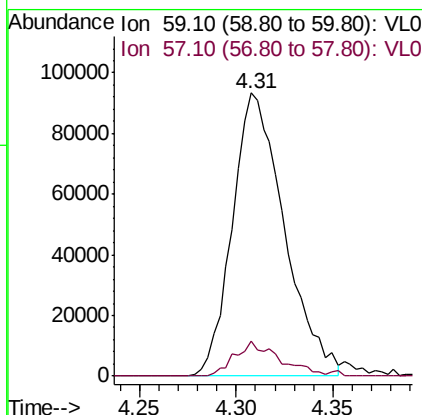
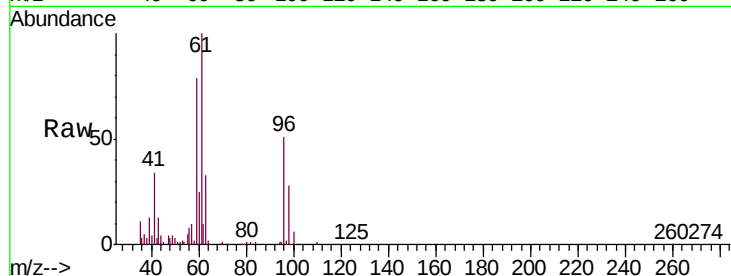




#17
 tert-Butyl alcohol
 Concen: 1.499 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

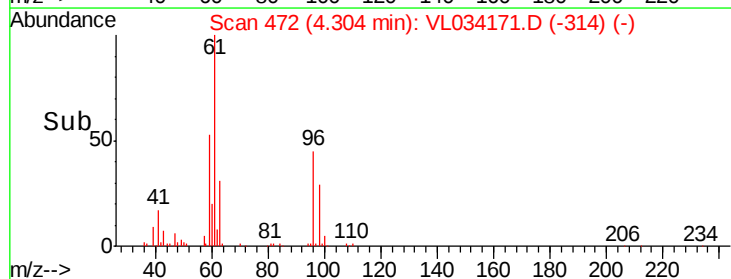
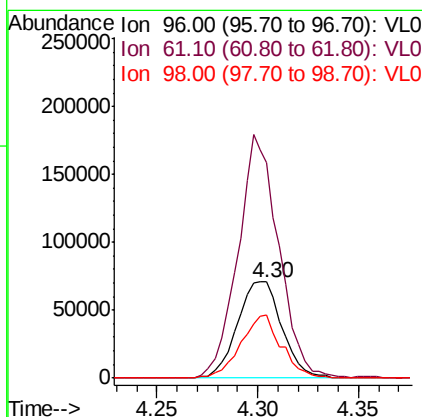
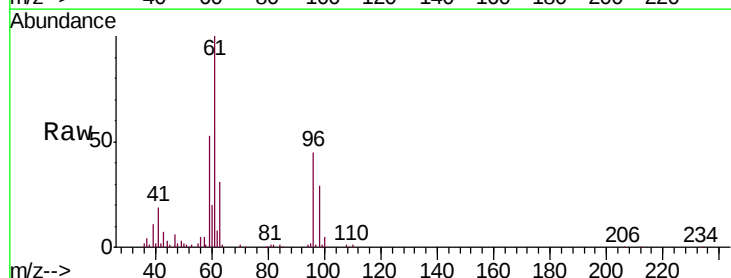
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

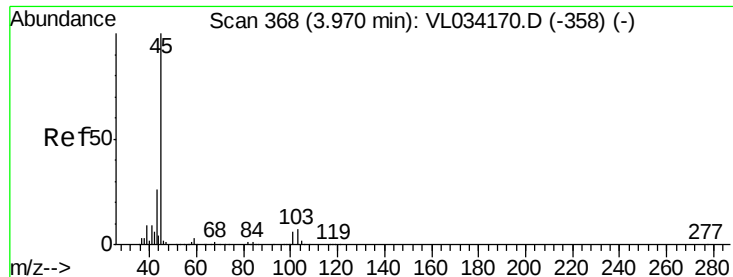
Tgt Ion: 59 Resp: 174124
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.7 13.1



#18
 1,1-Dichloroethene
 Concen: 2.028 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion: 96 Resp: 110099
 Ion Ratio Lower Upper
 96 100
 61 223.1 183.3 274.9
 98 65.7 51.4 77.2



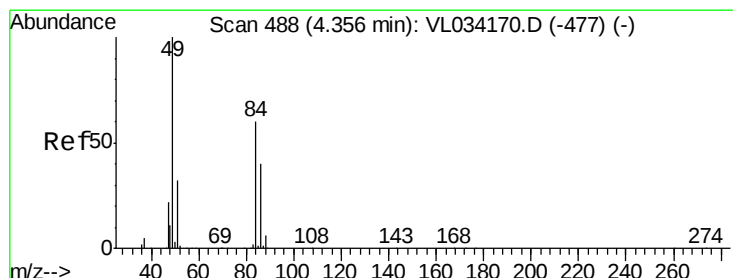
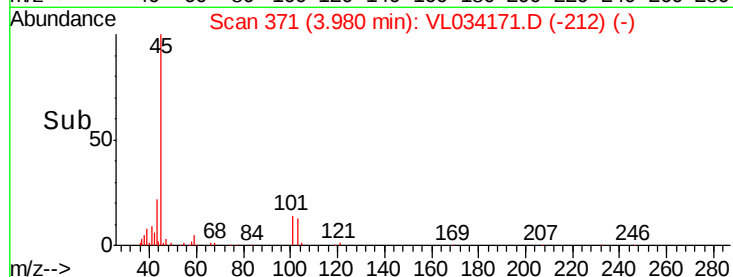
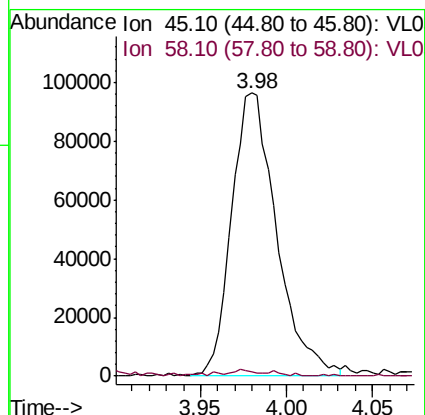
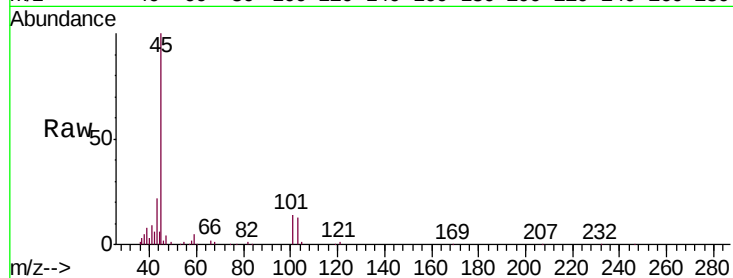


#19

Isopropyl Alcohol
 Concen: 1.616 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

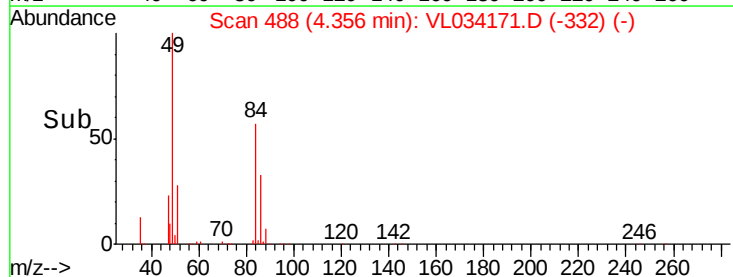
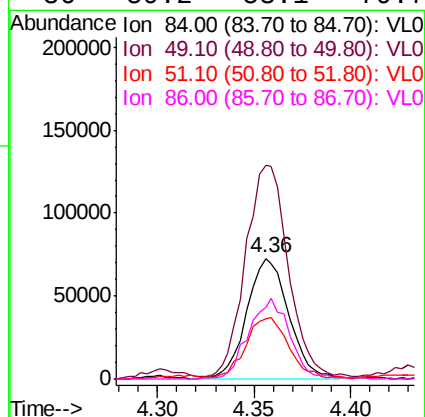
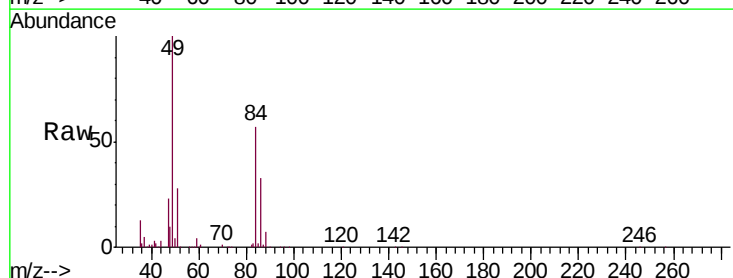
Tgt Ion: 45 Resp: 174280
 Ion Ratio Lower Upper
 45 100
 58 2.7 1.4 2.0#

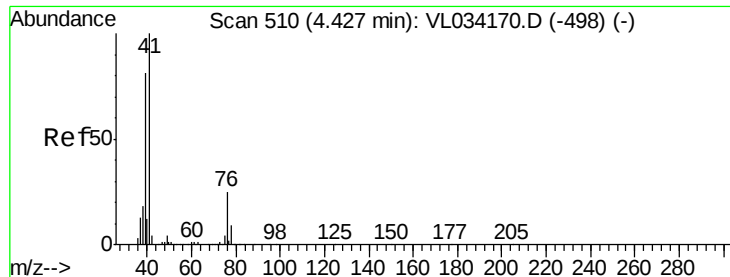


#20

Methylene Chloride
 Concen: 2.090 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion: 84 Resp: 110278
 Ion Ratio Lower Upper
 84 100
 49 174.0 133.8 200.8
 51 47.8 43.6 65.4
 86 59.2 53.1 79.7





#21

Allyl Chloride

Concen: 1.982 ppbv

RT: 4.42 min Scan# 509

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

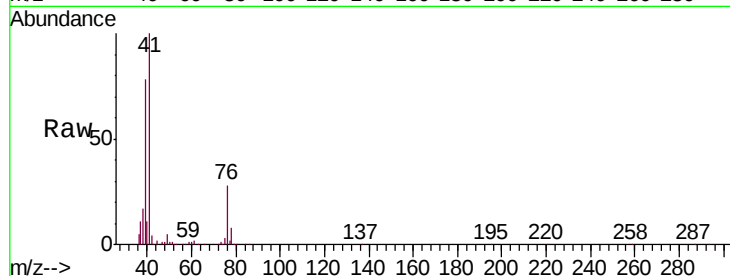
Tgt Ion: 41 Resp: 209569

Ion Ratio Lower Upper

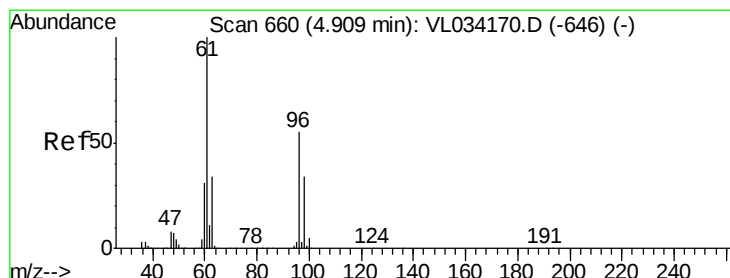
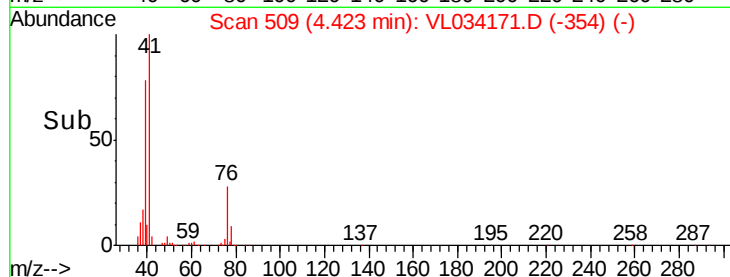
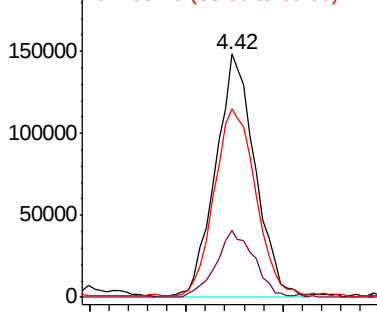
41 100

76 27.0 21.8 32.6

39 83.7 64.8 97.2



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: 1.886 ppbv

RT: 4.91 min Scan# 660

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

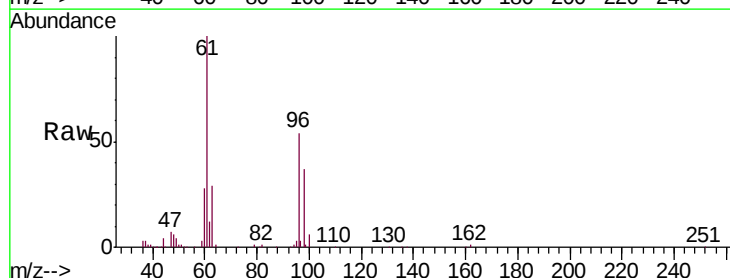
Tgt Ion: 96 Resp: 102853

Ion Ratio Lower Upper

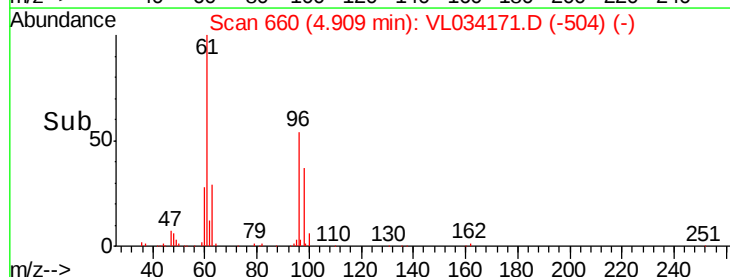
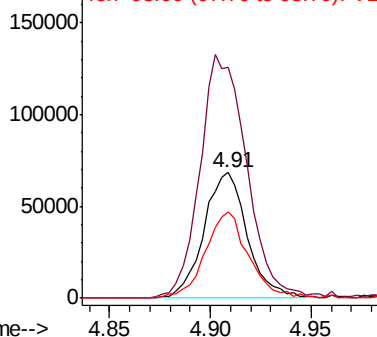
96 100

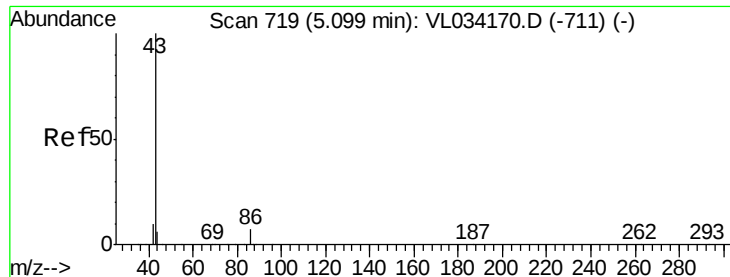
61 183.2 145.5 218.3

98 68.1 49.9 74.9



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: 2.116 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 573878

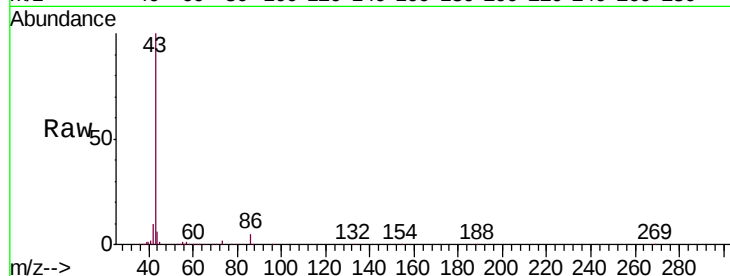
Ion Ratio Lower Upper

43 100

86 5.3 5.1 7.7

42 10.3 8.6 12.8

44 5.3 4.7 7.1

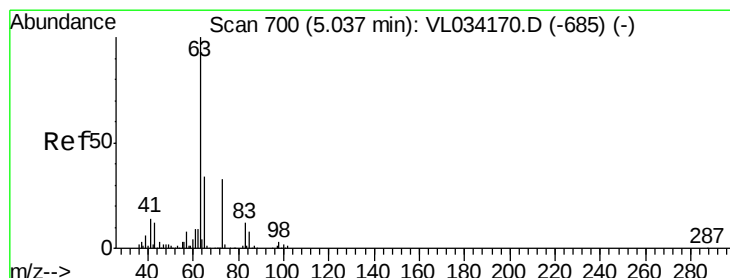
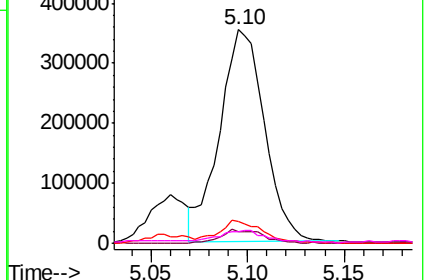
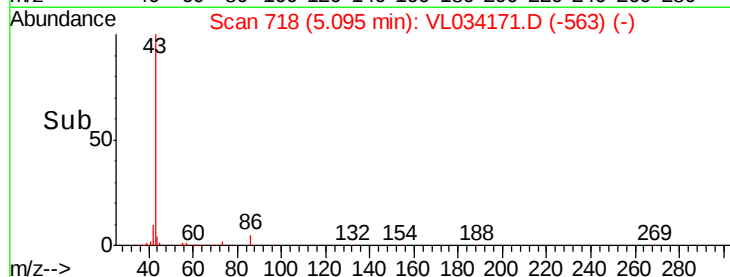


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.075 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

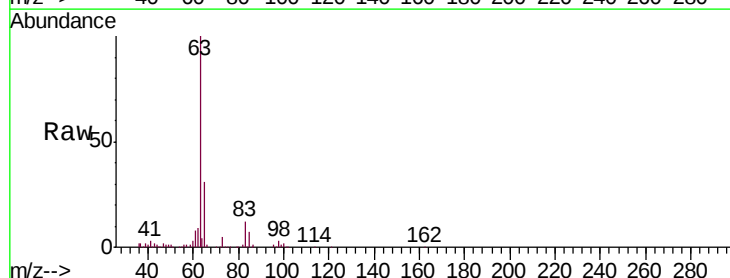
Tgt Ion: 63 Resp: 375079

Ion Ratio Lower Upper

63 100

98 2.7 1.8 5.3

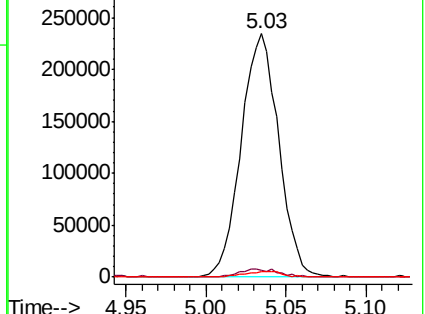
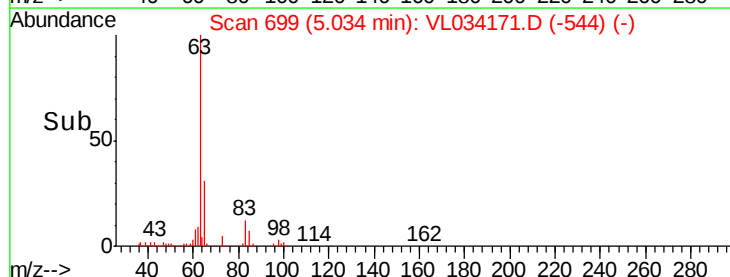
100 2.0 1.0 3.0

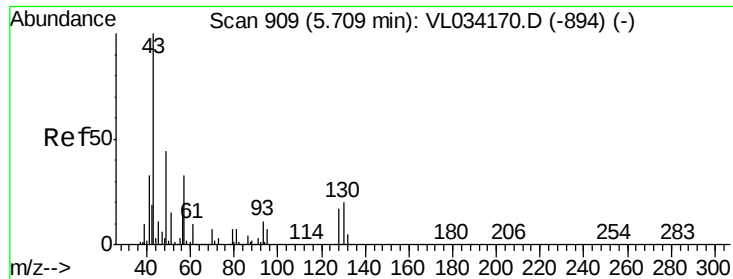


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

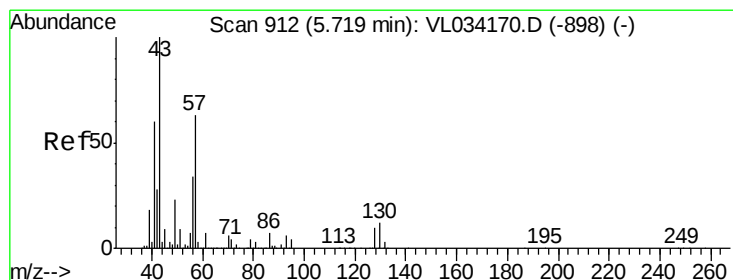
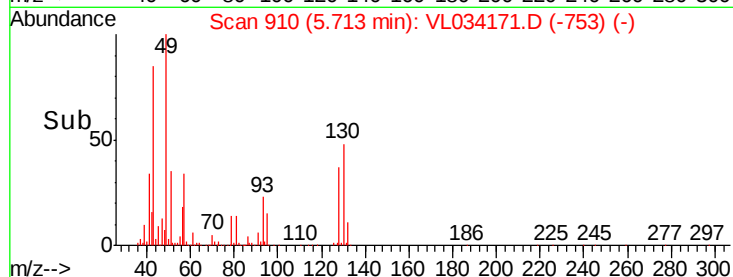
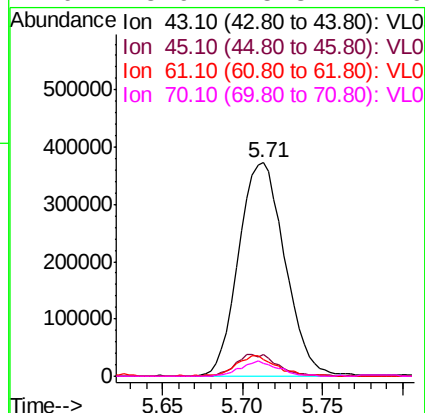
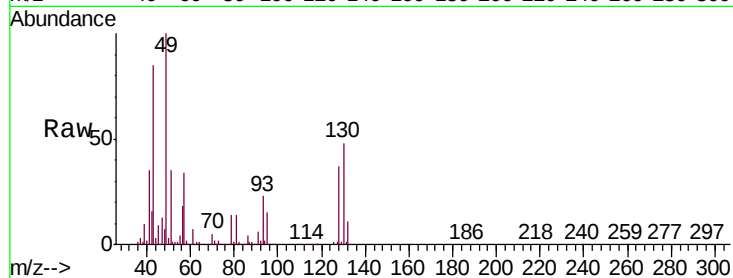




#25
Ethyl Acetate
Concen: 2.073 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

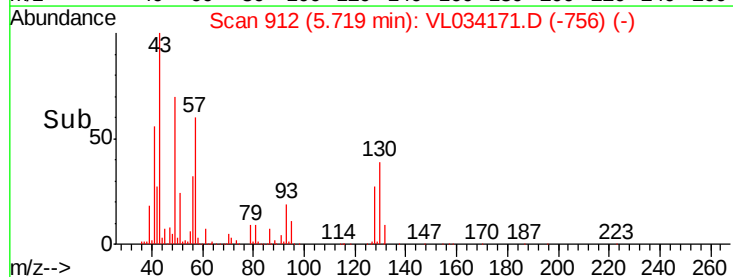
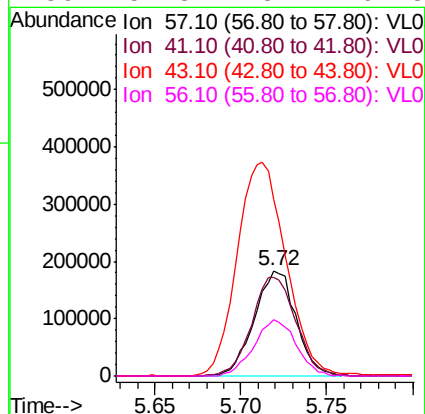
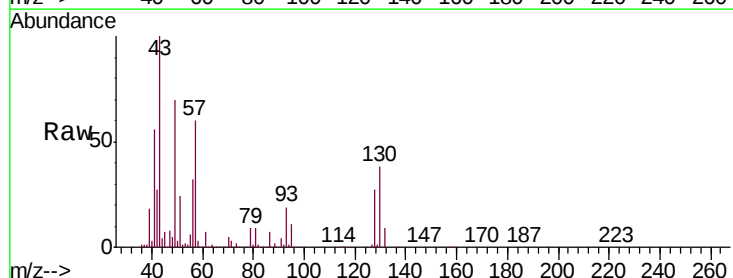
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

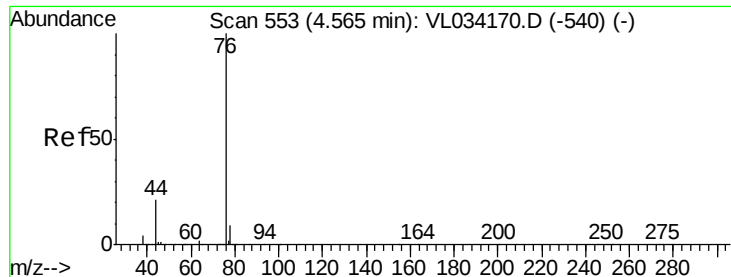
Tgt Ion:	43	Resp:	729550
Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.4	12.6
61	8.6	7.2	10.8
70	5.9	5.3	7.9



#26
Hexane
Concen: 1.974 ppbv
RT: 5.72 min Scan# 912
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion:	57	Resp:	308713
Ion	Ratio	Lower	Upper
57	100		
41	99.8	78.5	117.7
43	239.9	189.5	284.3
56	54.3	43.2	64.8





#27

Carbon Disulfide

Concen: 1.954 ppbv

RT: 4.57 min Scan# 554

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

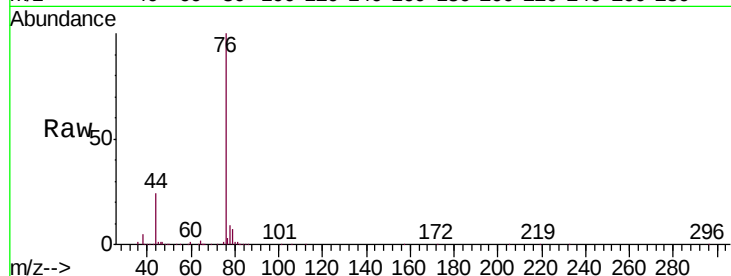
Tgt Ion: 76 Resp: 274300

Ion Ratio Lower Upper

76 100

44 23.7 17.6 26.4

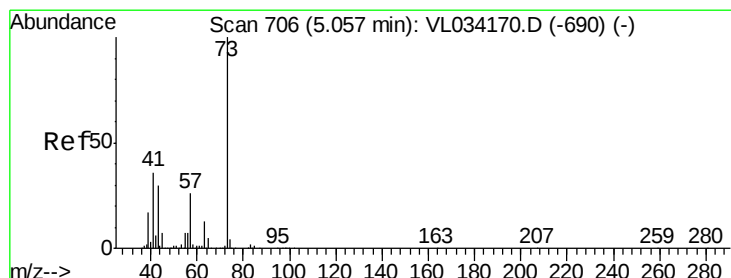
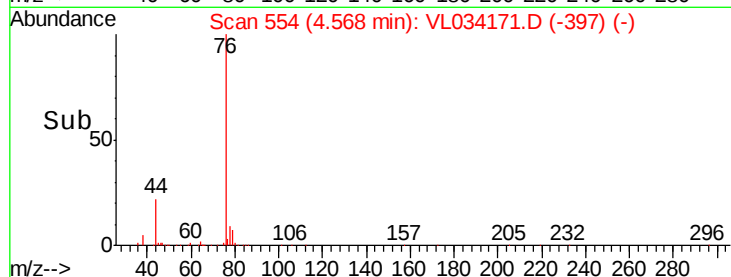
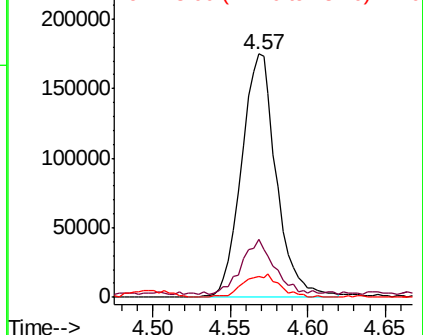
78 9.9 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 1.944 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL034171.D

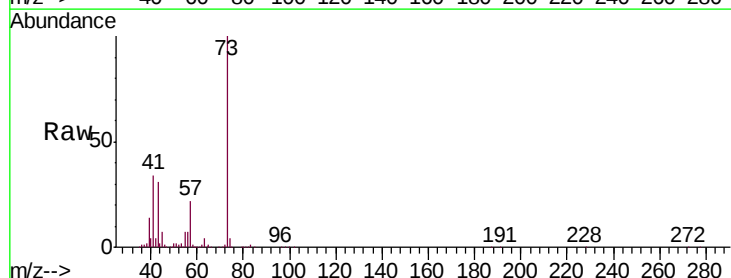
Acq: 17 Sep 2019 4:51

Tgt Ion: 73 Resp: 440578

Ion Ratio Lower Upper

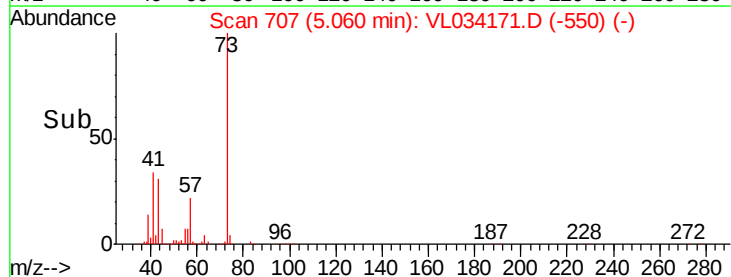
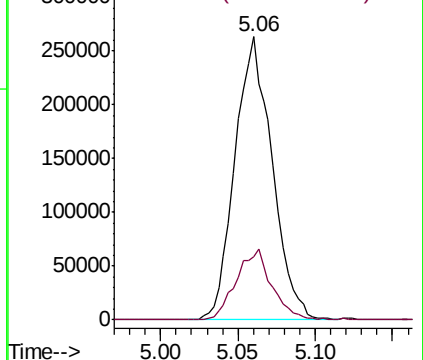
73 100

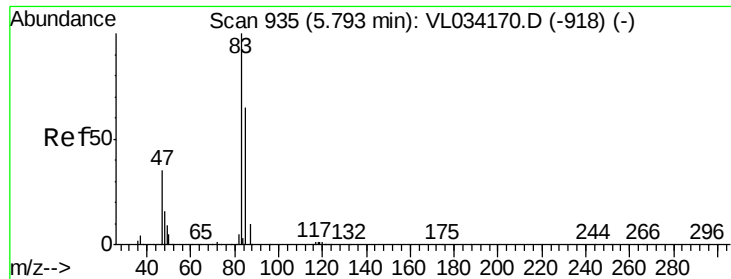
57 24.0 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

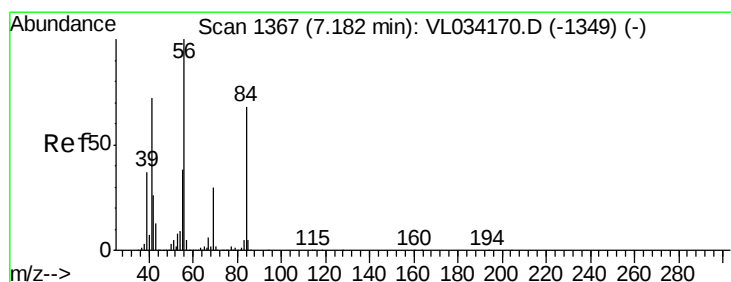
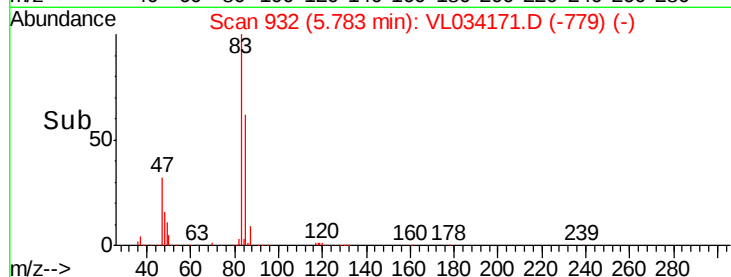
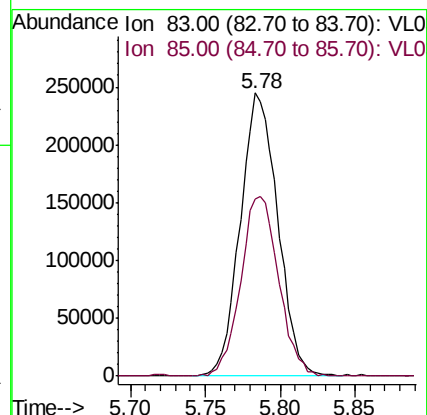
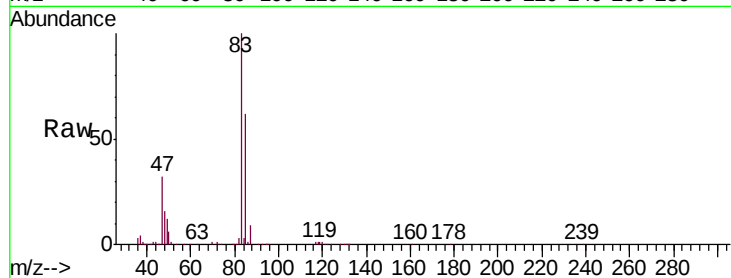




#29
Chloroform
Concen: 2.020 ppbv
RT: 5.78 min Scan# 932
Delta R.T. -0.01 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

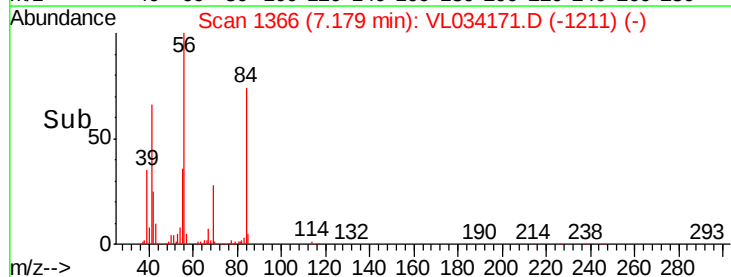
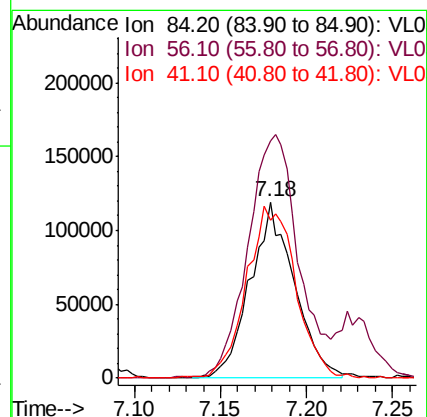
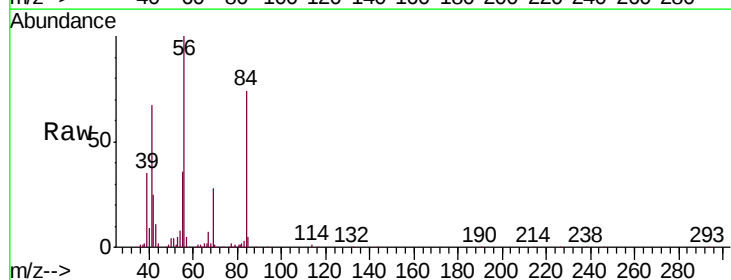
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

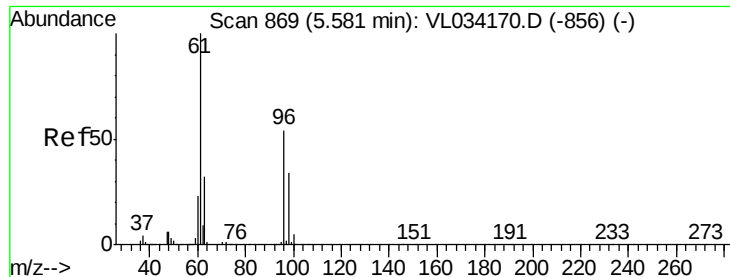
Tgt Ion: 83 Resp: 426238
Ion Ratio Lower Upper
83 100
85 62.5 52.3 78.5



#30
Cyclohexane
Concen: 1.884 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion: 84 Resp: 210622
Ion Ratio Lower Upper
84 100
56 188.9 126.2 189.2
41 109.9 85.8 128.8





#31

cis-1,2-Dichloroethene

Concen: 1.989 ppbv

RT: 5.58 min Scan# 869

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

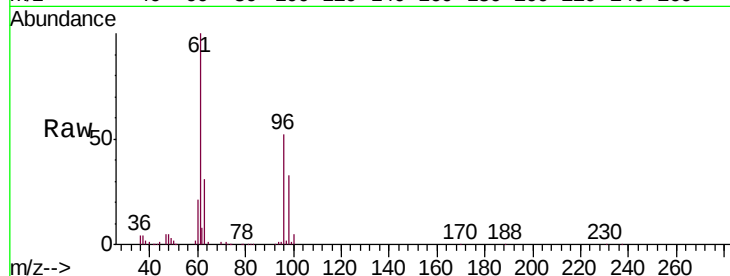
Tgt Ion: 61 Resp: 298184

Ion Ratio Lower Upper

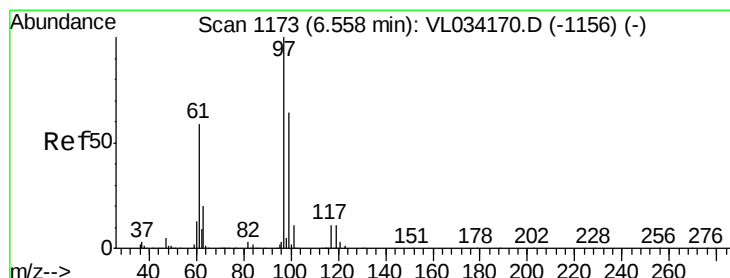
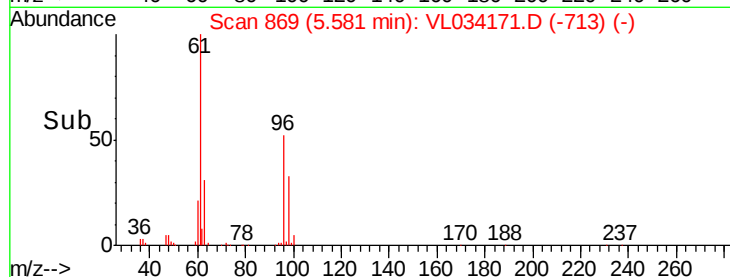
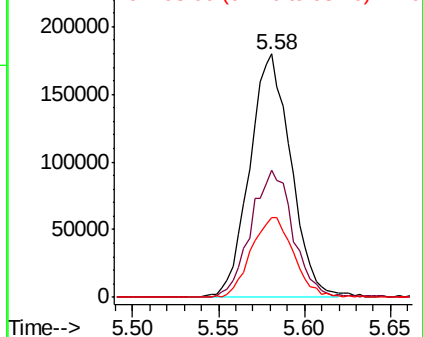
61 100

96 52.3 43.0 64.4

98 32.9 27.2 40.8



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



#32

1,1,1-Trichloroethane

Concen: 1.929 ppbv

RT: 6.56 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

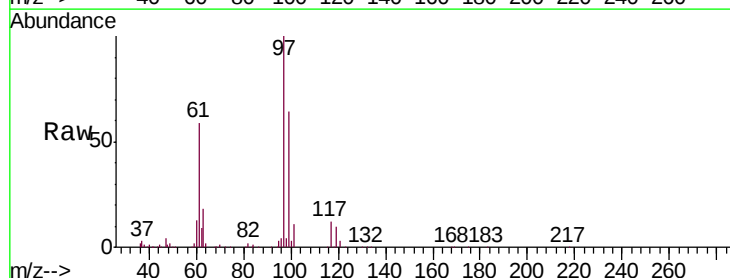
Tgt Ion: 97 Resp: 384910

Ion Ratio Lower Upper

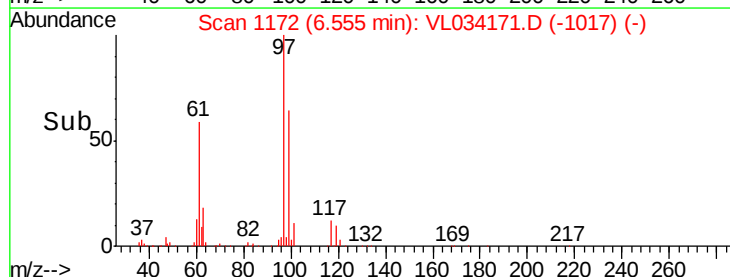
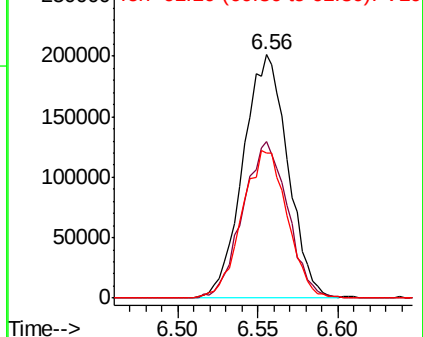
97 100

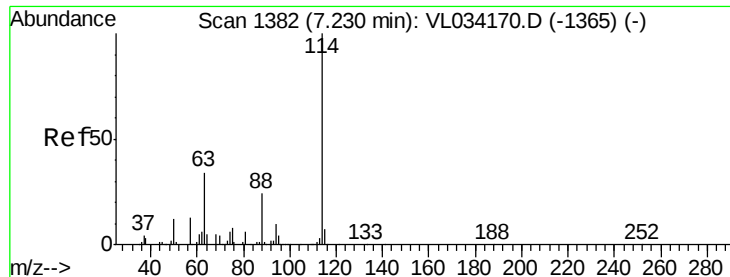
99 64.6 51.4 77.2

61 61.4 48.4 72.6



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

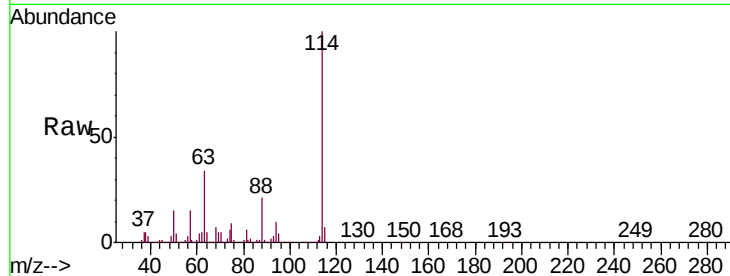




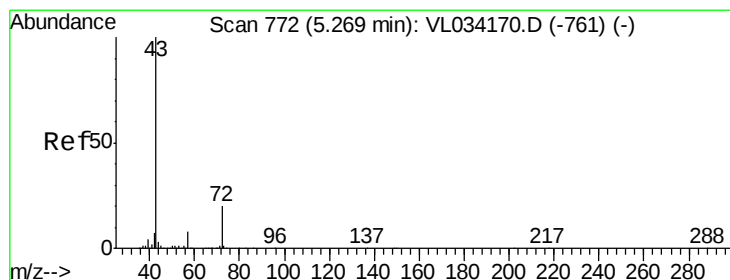
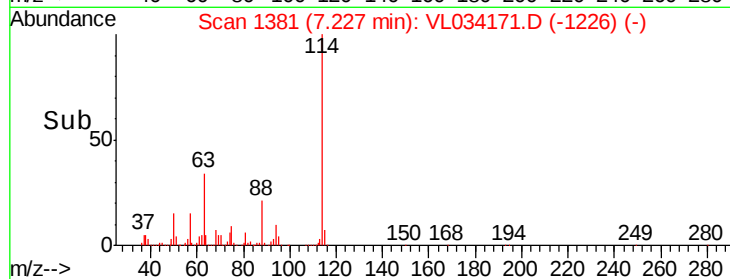
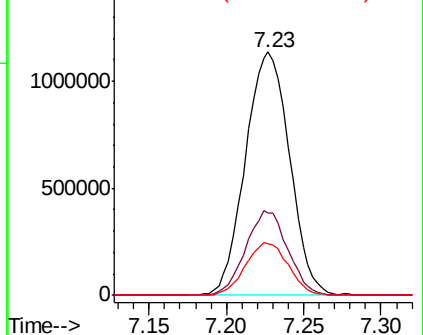
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:114 Resp: 2260462
 Ion Ratio Lower Upper
 114 100
 63 33.3 27.8 41.6
 88 20.9 17.1 25.7

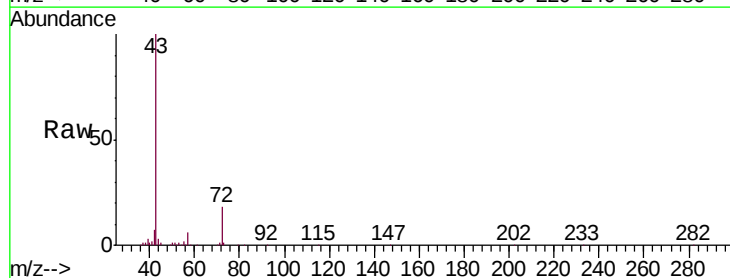


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

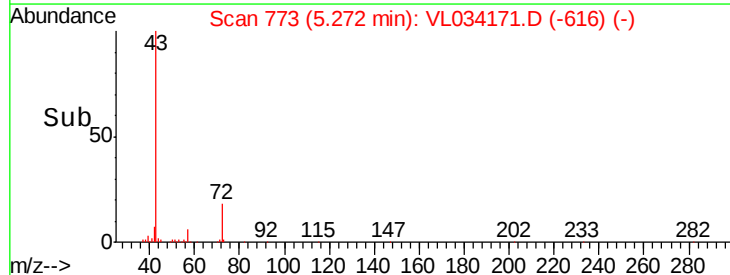
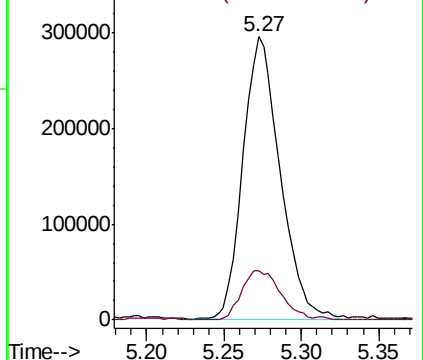


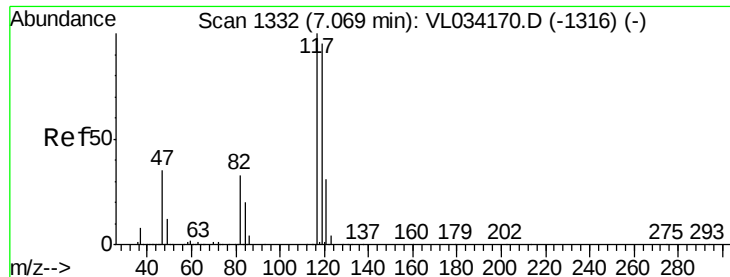
#34
 2-Butanone
 Concen: 2.234 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion: 43 Resp: 493620
 Ion Ratio Lower Upper
 43 100
 72 19.0 15.0 22.6



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





#35

Carbon Tetrachloride

Concen: 2.175 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

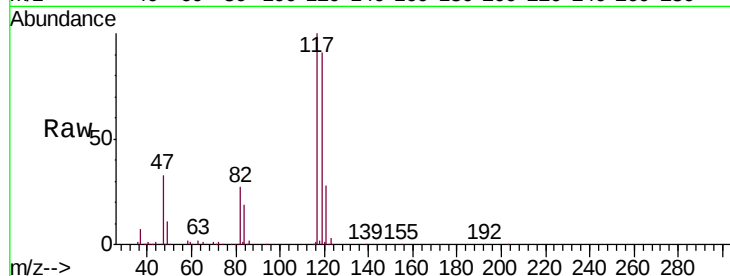
Tgt Ion: 117 Resp: 388436

Ion Ratio Lower Upper

117 100

119 90.8 75.8 113.6

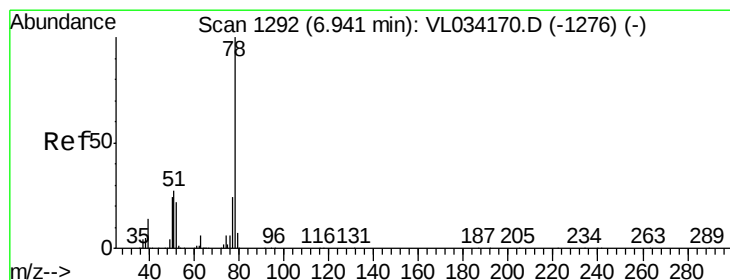
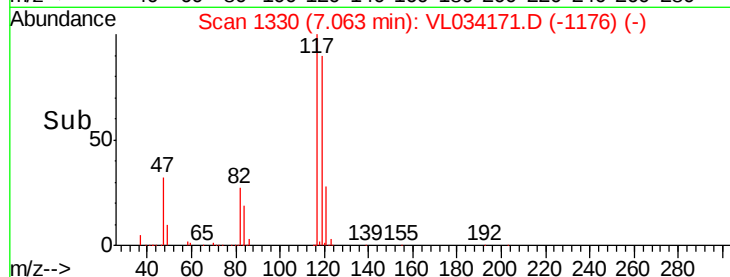
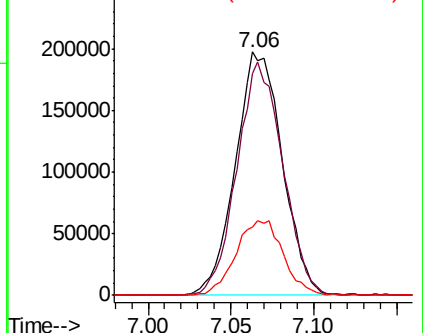
121 28.1 25.0 37.6



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: 2.063 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

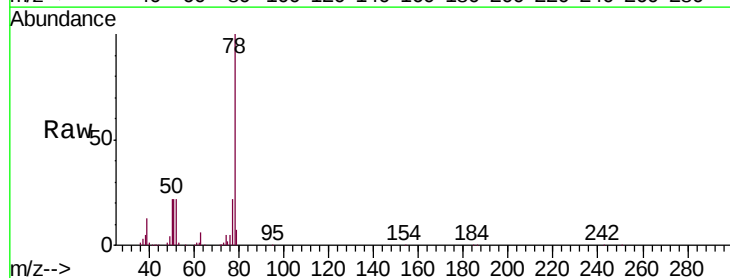
Tgt Ion: 78 Resp: 532567

Ion Ratio Lower Upper

78 100

77 21.4 19.0 28.4

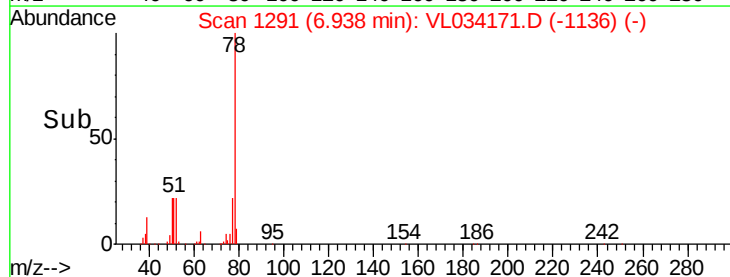
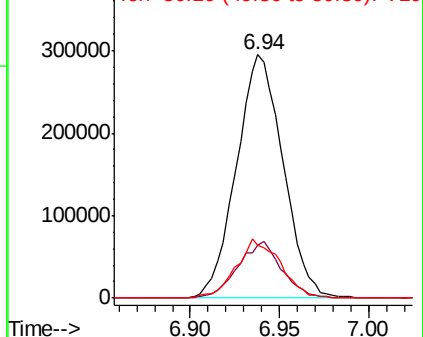
50 21.9 18.9 28.3

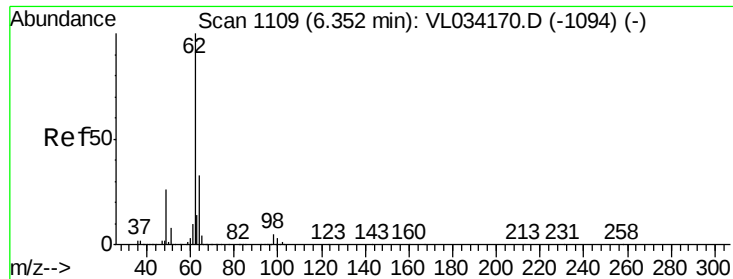


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 2.309 ppbv

RT: 6.35 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

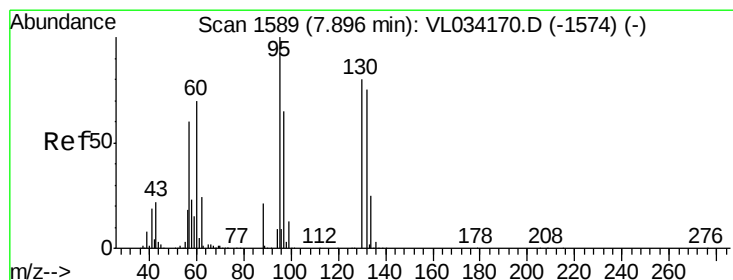
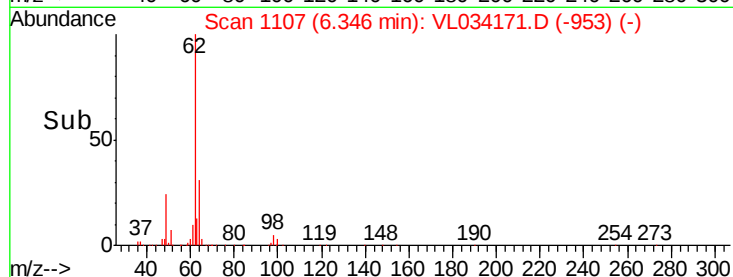
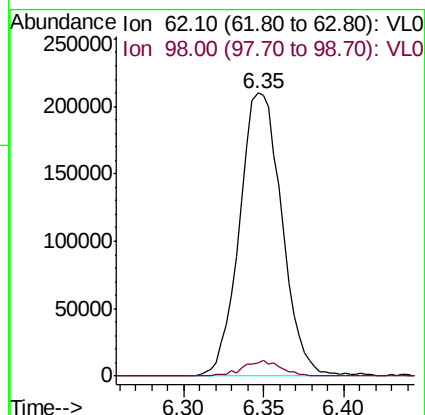
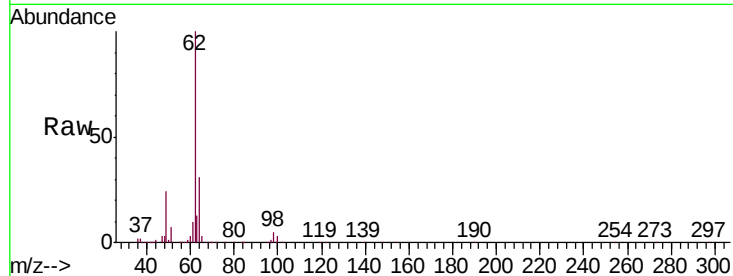
VSTDIC002

Tgt Ion: 62 Resp: 377568

Ion Ratio Lower Upper

62 100

98 4.9 3.8 5.8



#38

Trichloroethene

Concen: 1.912 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Tgt Ion: 130 Resp: 185003

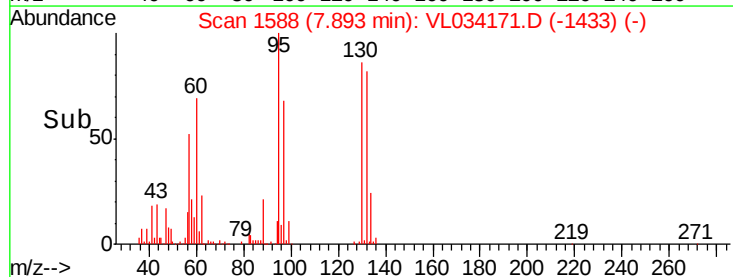
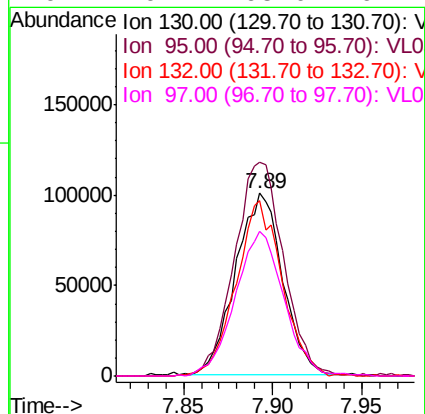
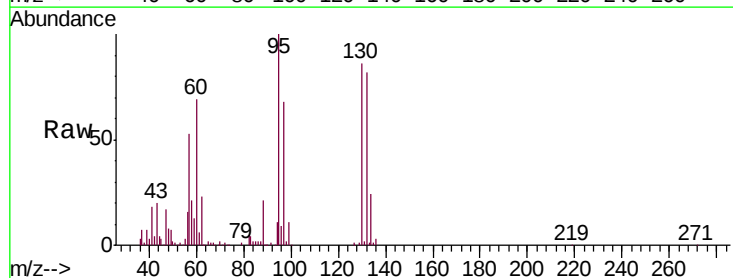
Ion Ratio Lower Upper

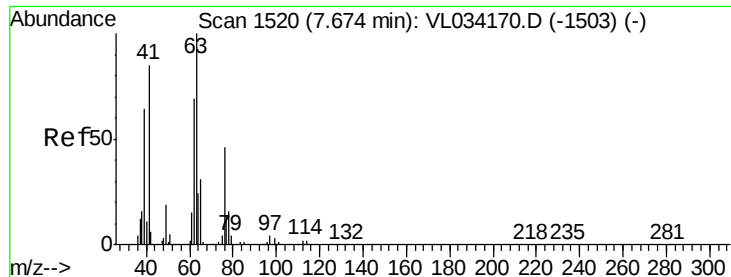
130 100

95 117.1 99.8 149.6

132 96.4 75.2 112.8

97 79.1 65.0 97.4





#39

1,2-Dichloropropane

Concen: 0.971 ppbv

RT: 7.67 min Scan# 1519

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

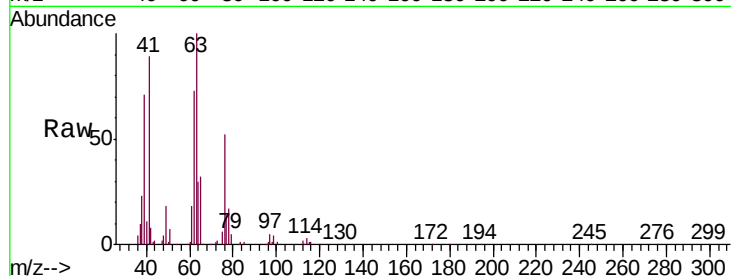
Tgt Ion: 63 Resp: 108332

Ion Ratio Lower Upper

63 100

41 89.0 68.4 102.6

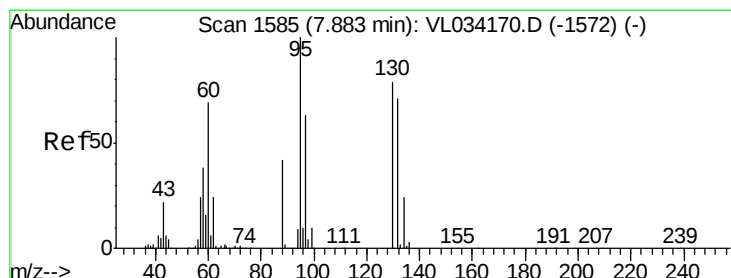
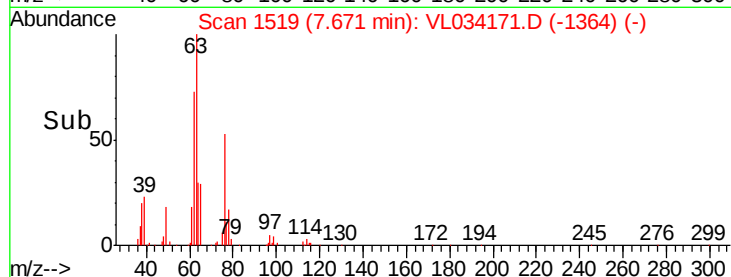
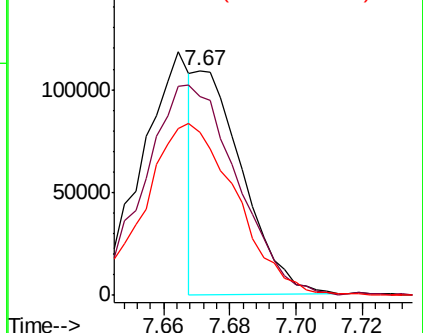
62 71.9 55.4 83.2



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: 1.479 ppbv

RT: 7.90 min Scan# 1590

Delta R.T. 0.02 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Tgt Ion: 88 Resp: 59752

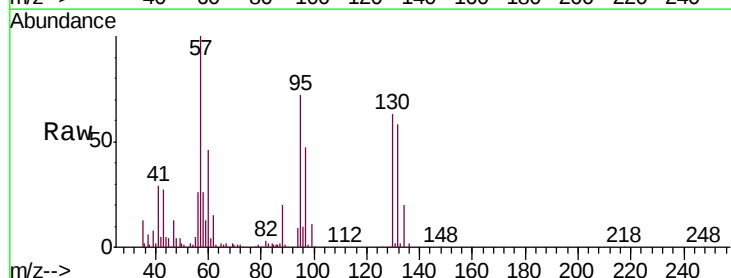
Ion Ratio Lower Upper

88 100

58 183.2 131.8 197.6

43 0.0 0.0 0.0

57 0.0 0.0 0.0

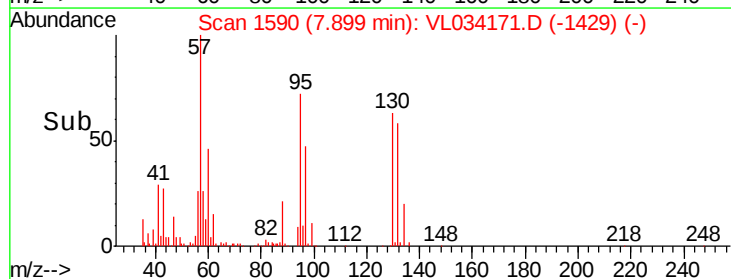
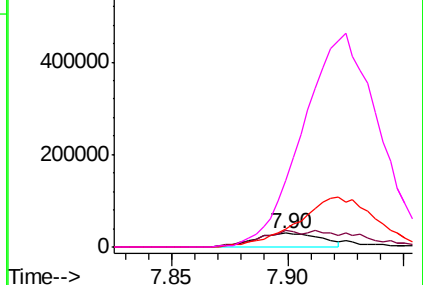


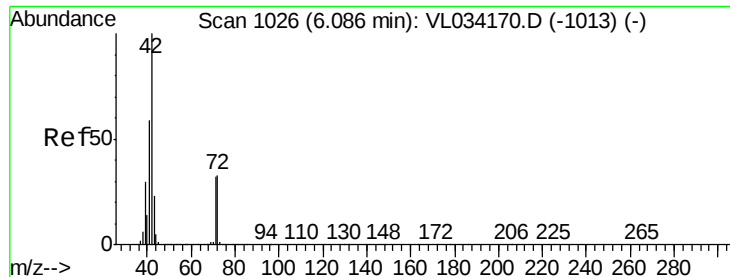
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 1.175 ppbv

RT: 6.09 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

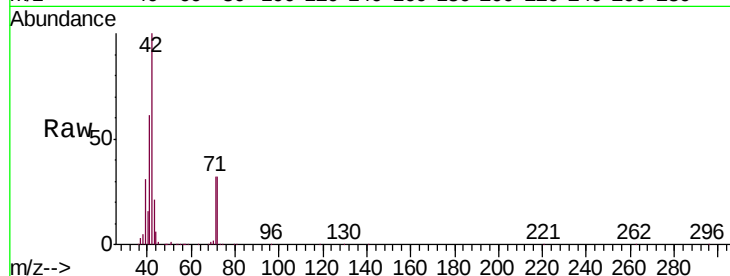
Tgt Ion: 42 Resp: 154643

Ion Ratio Lower Upper

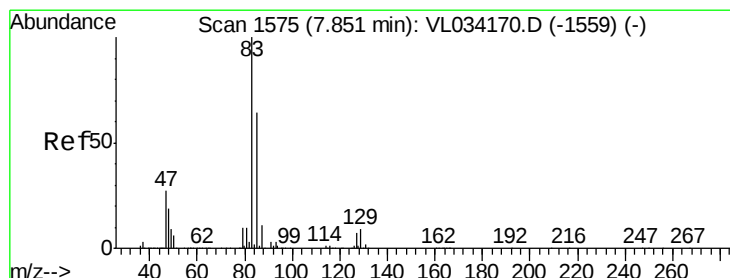
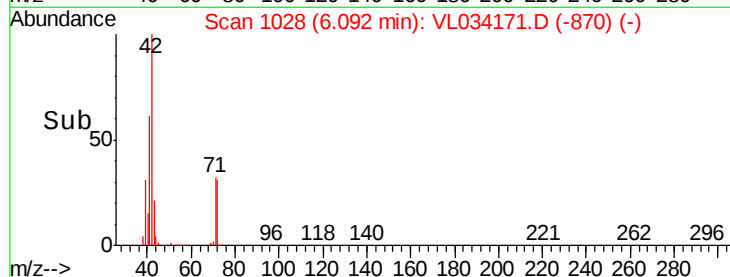
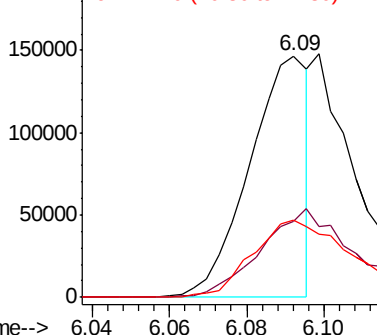
42 100

72 0.0 26.6 40.0#

71 55.7 25.1 37.7#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 2.201 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

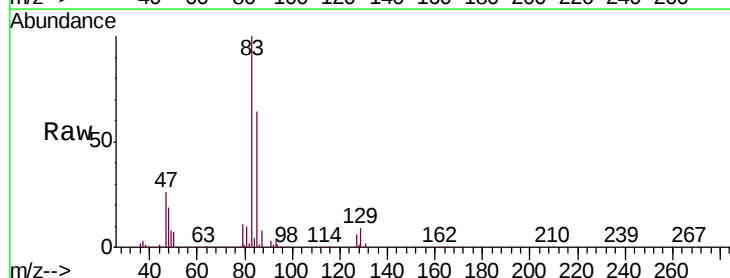
Tgt Ion: 83 Resp: 460769

Ion Ratio Lower Upper

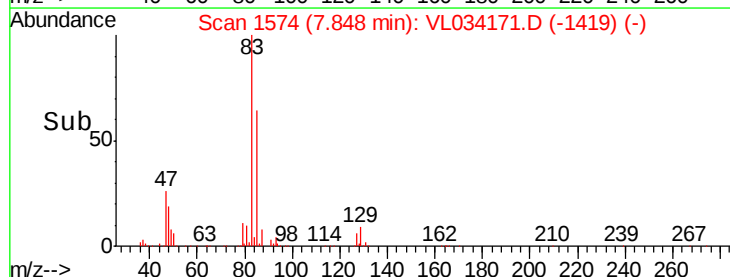
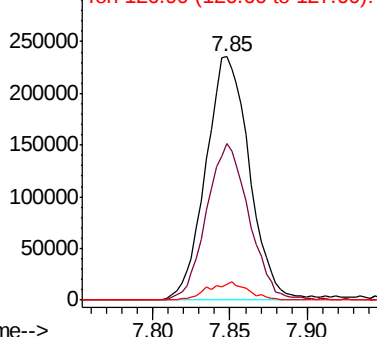
83 100

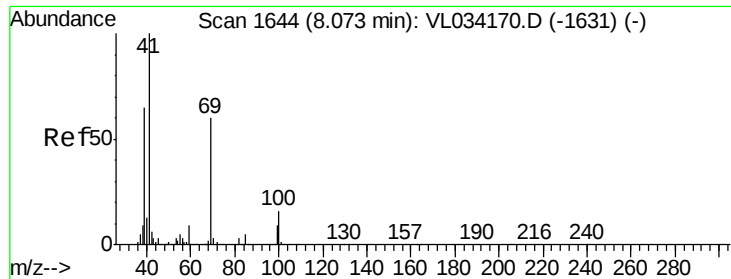
85 63.8 51.4 77.0

127 6.2 5.5 8.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

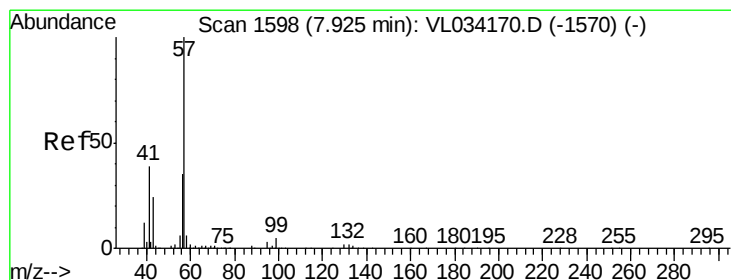
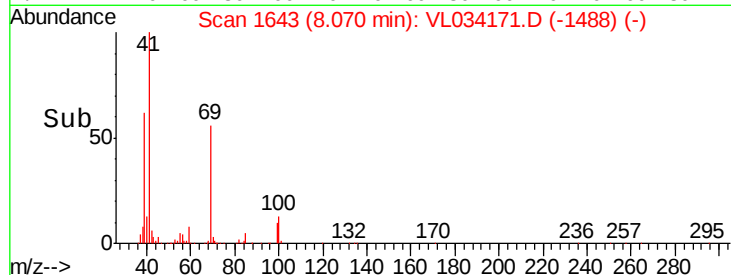
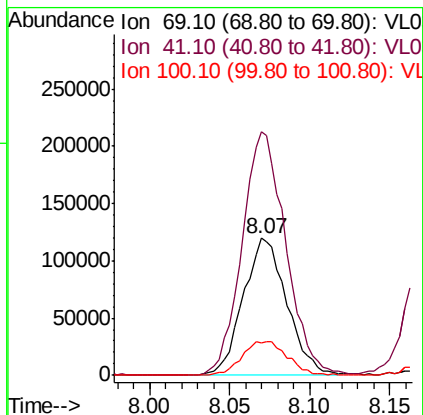
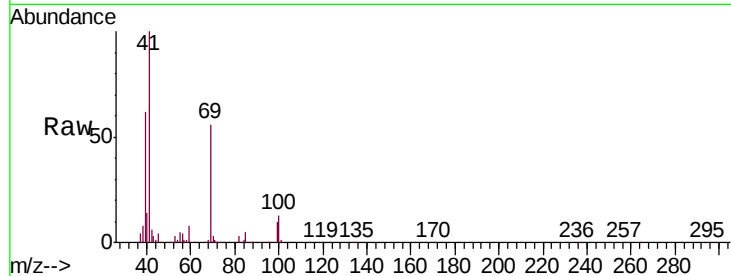




#43
Methyl Methacrylate
Concen: 2.097 ppbv
RT: 8.07 min Scan# 1643
Delta R.T. -0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

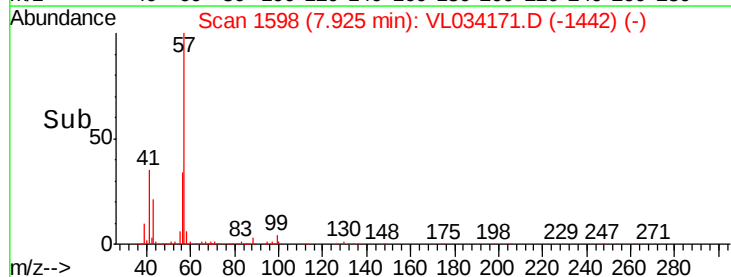
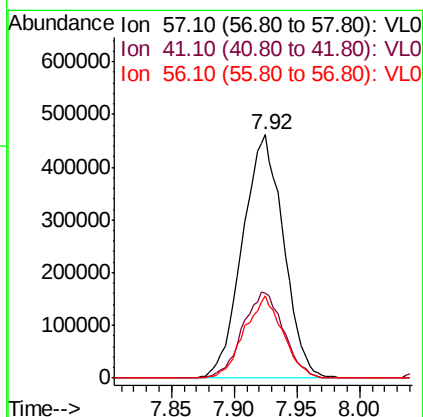
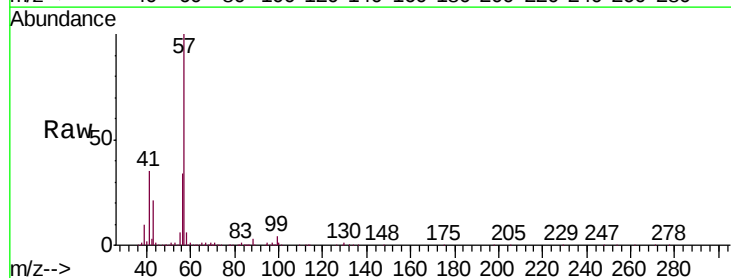
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

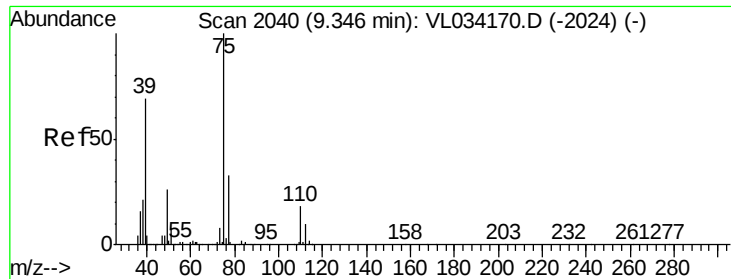
Tgt Ion: 69 Resp: 223566
Ion Ratio Lower Upper
69 100
41 177.4 140.4 210.6
100 25.9 21.9 32.9



#44
2,2,4-Trimethylpentane
Concen: 2.186 ppbv
RT: 7.92 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion: 57 Resp: 1052093
Ion Ratio Lower Upper
57 100
41 35.3 29.8 44.6
56 31.7 25.9 38.9





#45

t-1,3-Dichloropropene

Concen: 2.048 ppbv

RT: 9.34 min Scan# 2039

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

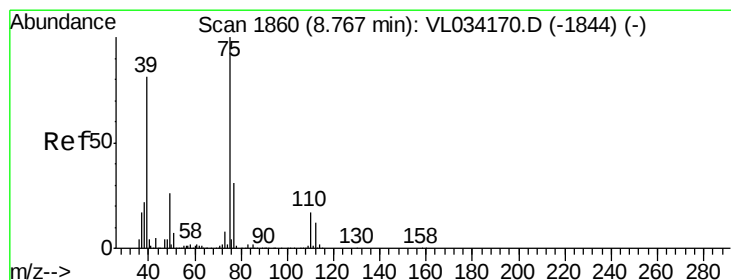
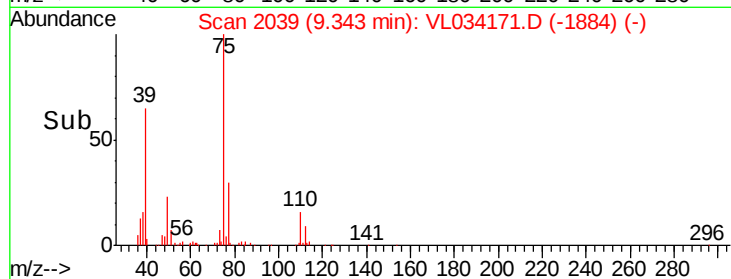
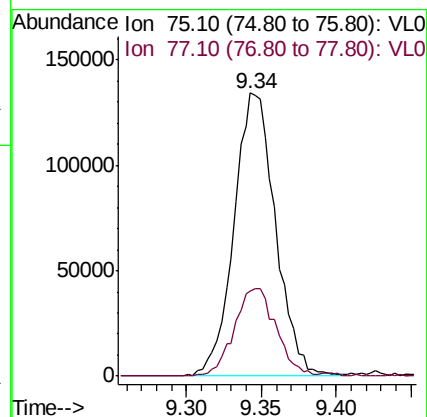
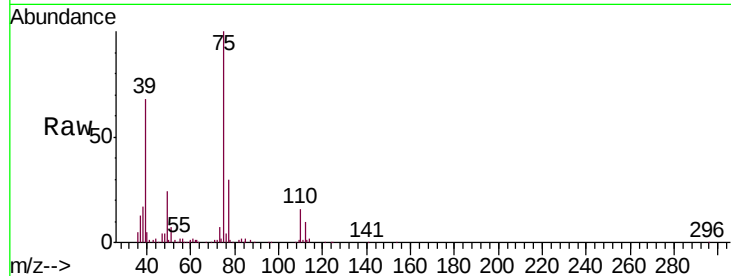
VSTDIC002

Tgt Ion: 75 Resp: 258103

Ion Ratio Lower Upper

75 100

77 30.2 26.2 39.2



#46

cis-1,3-Dichloropropene

Concen: 2.080 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

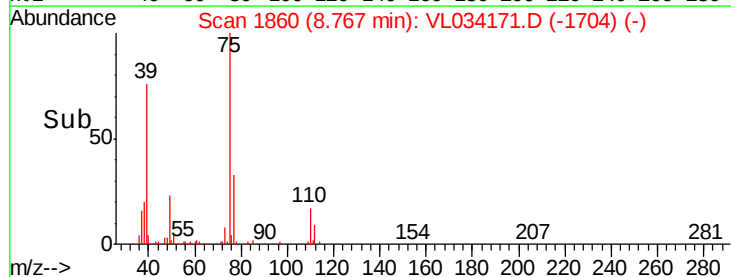
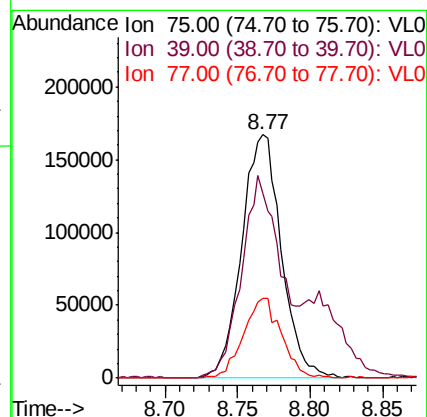
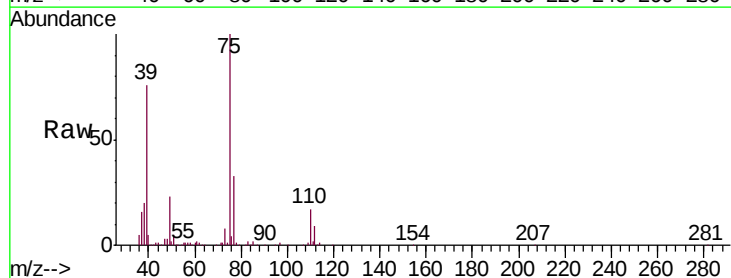
Tgt Ion: 75 Resp: 318527

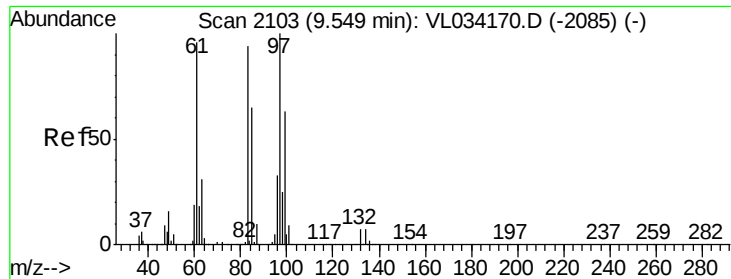
Ion Ratio Lower Upper

75 100

39 75.5 65.0 97.4

77 33.0 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 2.113 ppbv

RT: 9.54 min Scan# 2101

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 213453

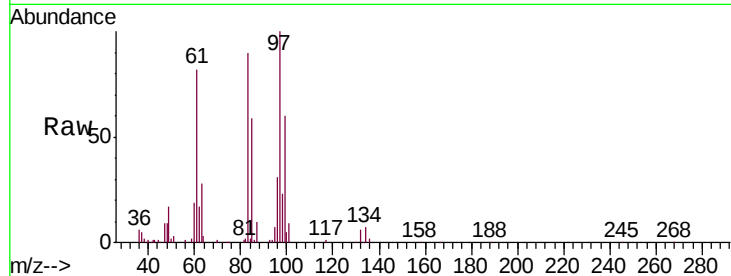
Ion Ratio Lower Upper

97 100

83 89.9 75.3 112.9

85 58.8 52.1 78.1

99 60.6 50.2 75.2

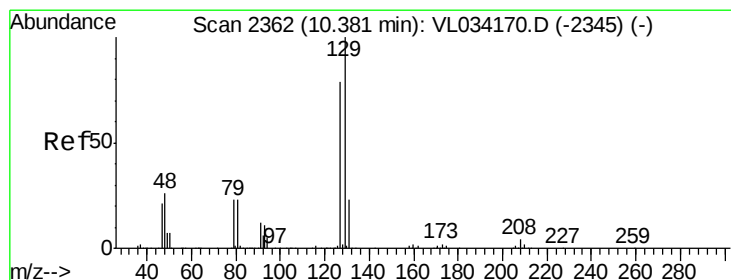
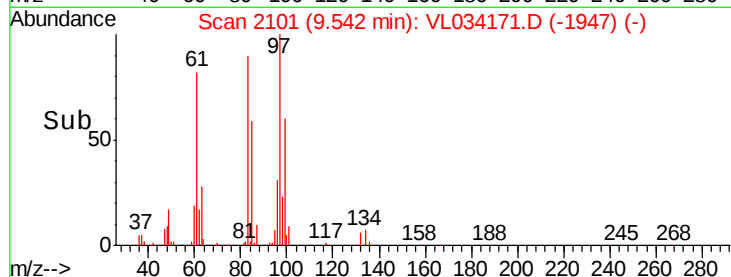
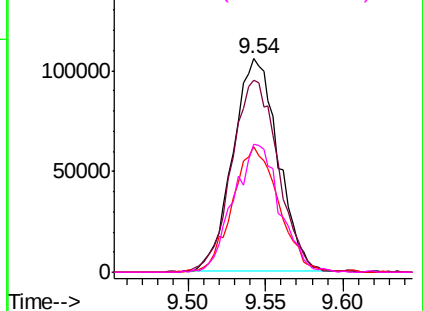


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 2.243 ppbv

RT: 10.37 min Scan# 2360

Delta R.T. -0.01 min

Lab File: VL034171.D

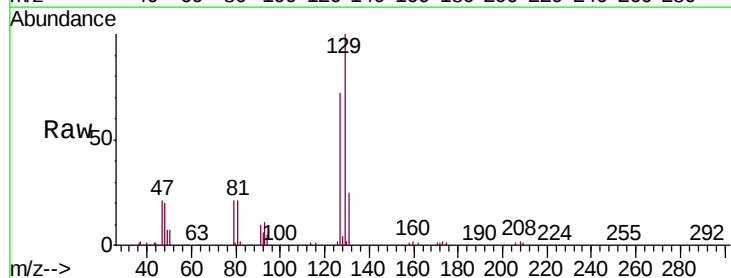
Acq: 17 Sep 2019 4:51

Tgt Ion: 129 Resp: 342654

Ion Ratio Lower Upper

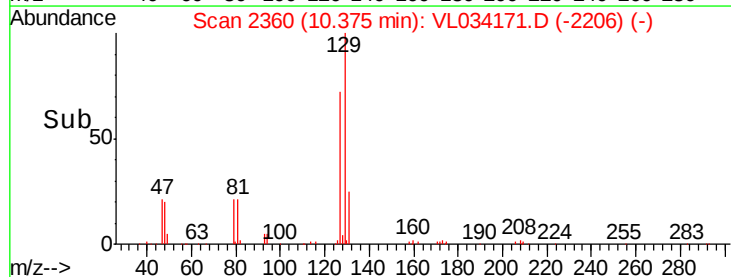
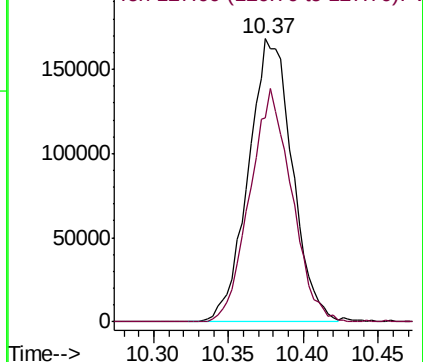
129 100

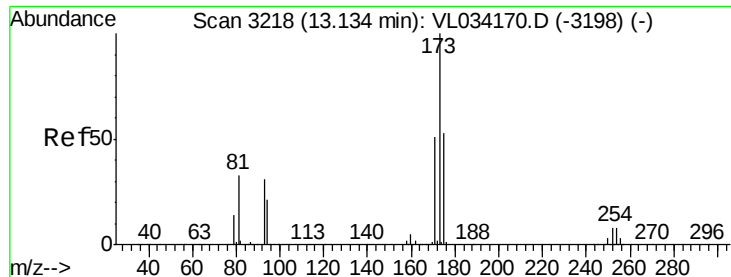
127 79.0 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 2.140 ppbv

RT: 13.12 min Scan# 3215

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

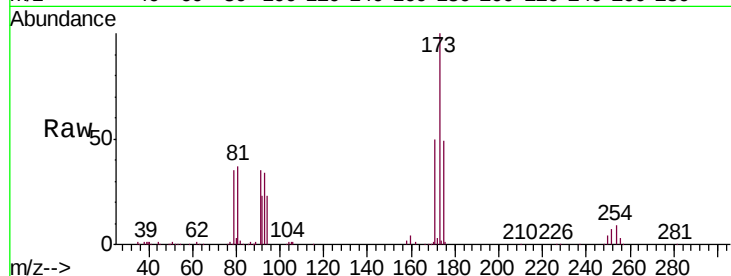
Tgt Ion: 173 Resp: 283772

Ion Ratio Lower Upper

173 100

175 49.1 40.3 60.5

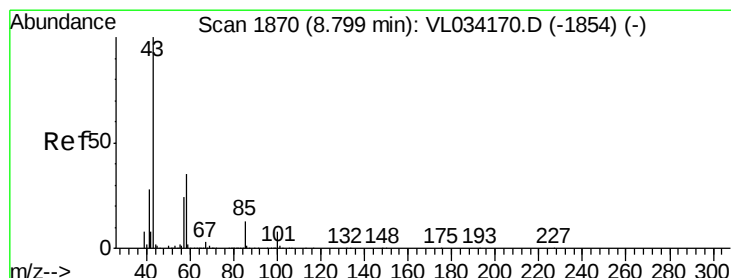
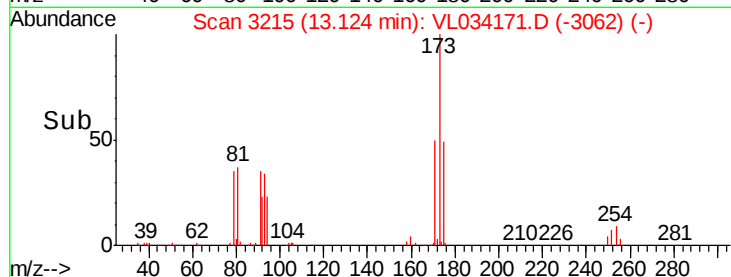
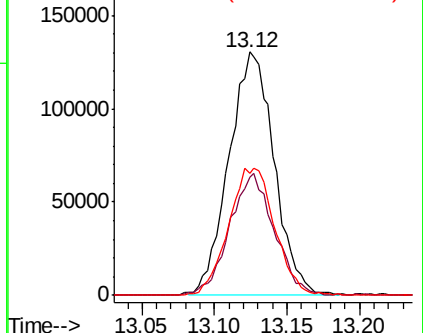
171 53.0 42.0 63.0



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: 2.170 ppbv

RT: 8.81 min Scan# 1872

Delta R.T. 0.01 min

Lab File: VL034171.D

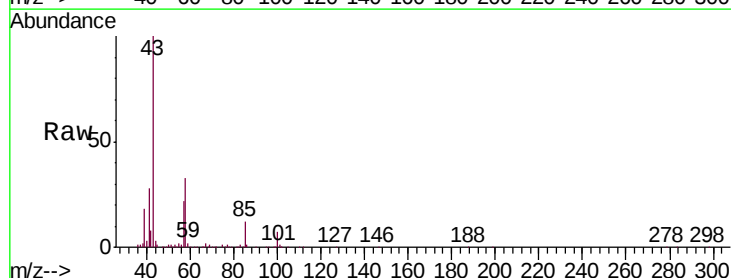
Acq: 17 Sep 2019 4:51

Tgt Ion: 43 Resp: 730016

Ion Ratio Lower Upper

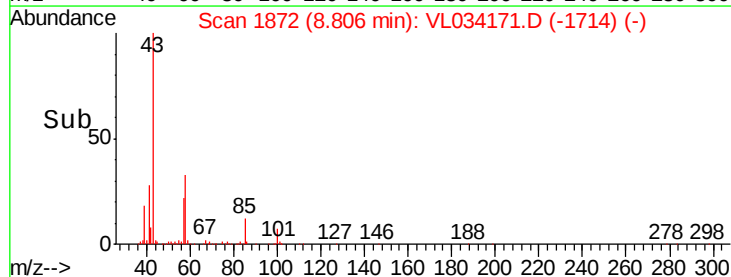
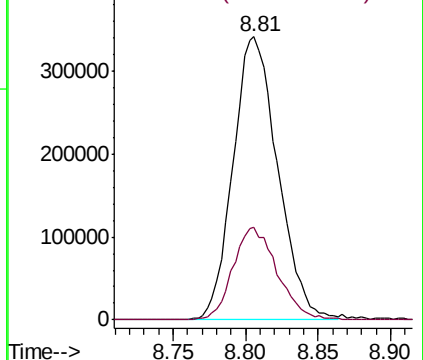
43 100

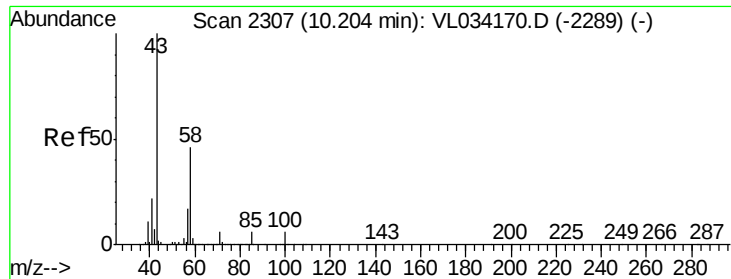
58 32.5 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

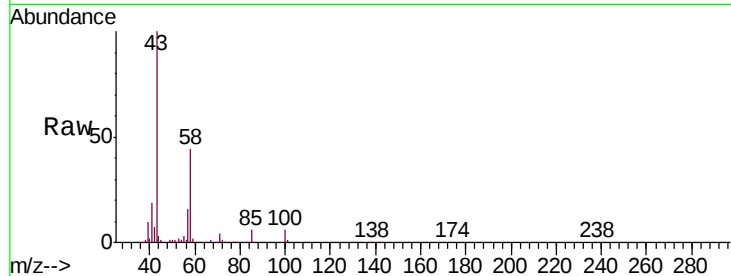




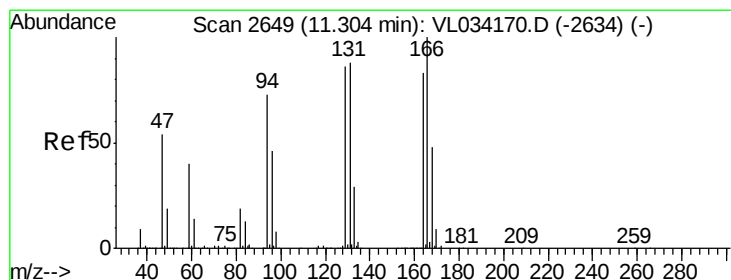
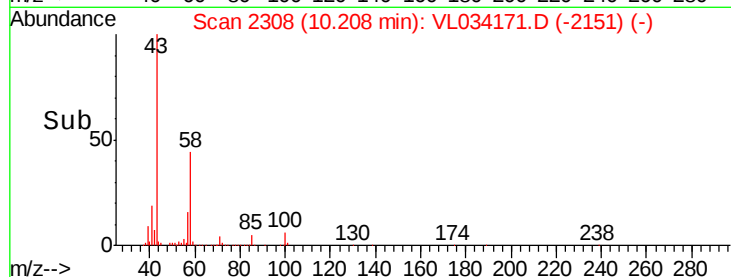
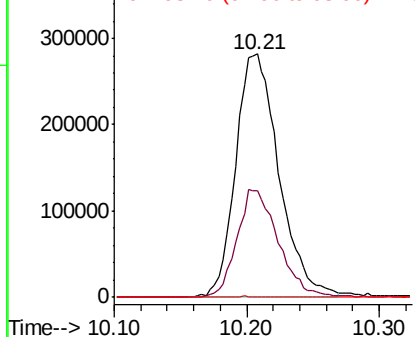
#51
2-Hexanone
Concen: 2.206 ppbv
RT: 10.21 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 639950
Ion Ratio Lower Upper
43 100
58 42.3 36.2 54.4
98 0.2 0.2 0.2#

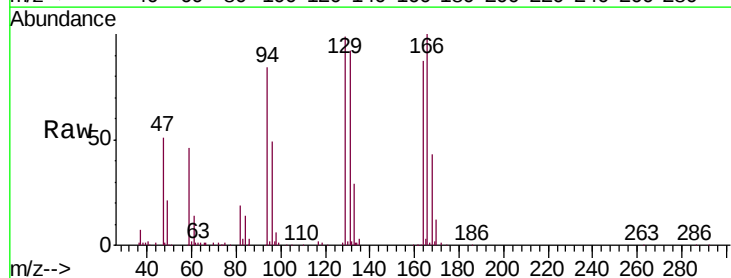


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

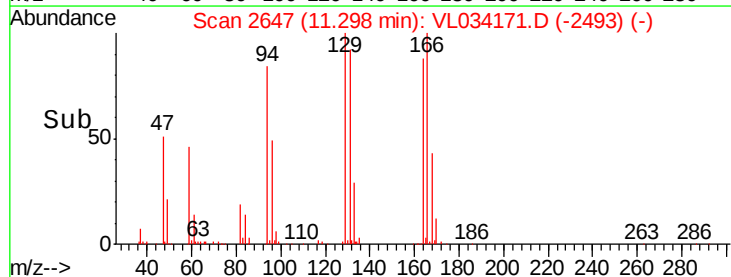
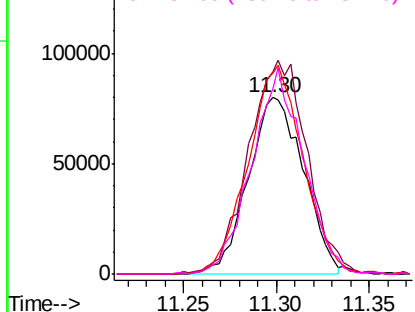


#52
Tetrachloroethene
Concen: 1.824 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. -0.01 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion: 164 Resp: 165903
Ion Ratio Lower Upper
164 100
166 113.4 96.7 145.1
129 113.8 82.8 124.2
131 104.8 85.0 127.6



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: 2.071 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

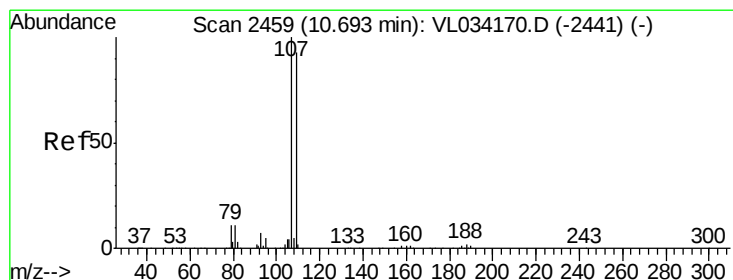
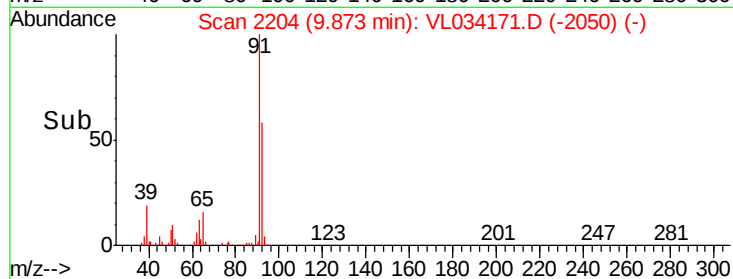
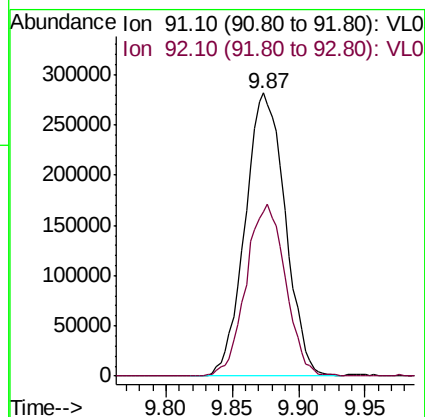
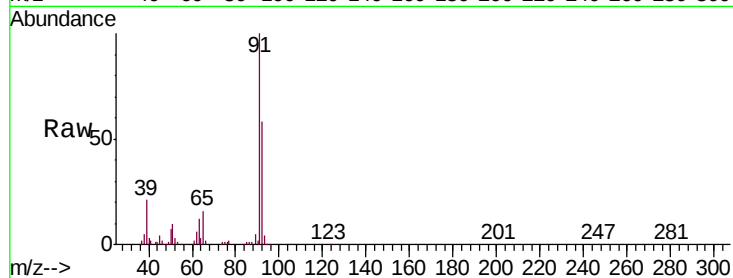
VSTDIC002

Tgt Ion: 91 Resp: 592063

Ion Ratio Lower Upper

91 100

92 59.6 49.0 73.6



#54

1,2-Dibromoethane

Concen: 2.115 ppbv

RT: 10.69 min Scan# 2458

Delta R.T. -0.00 min

Lab File: VL034171.D

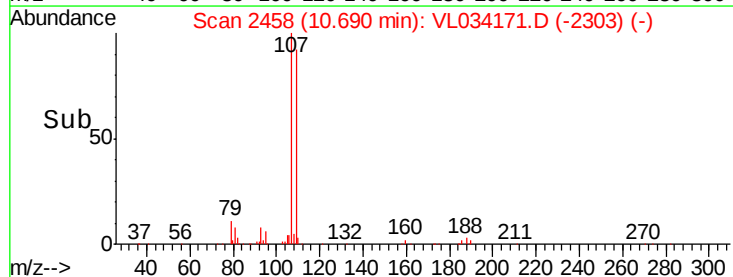
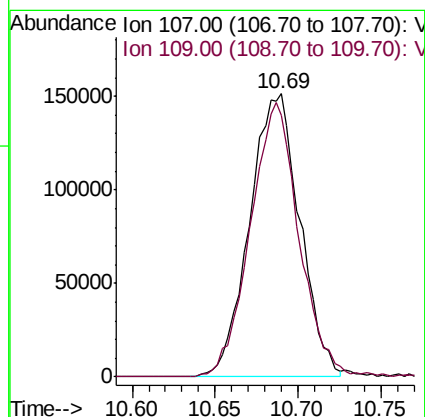
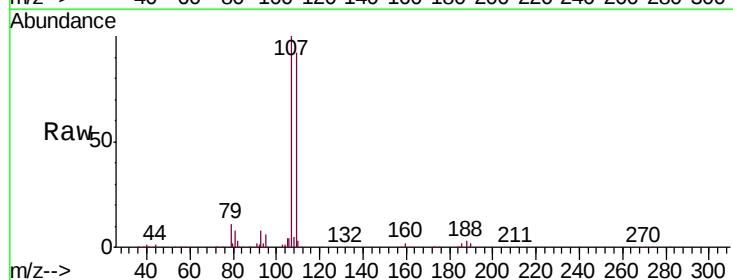
Acq: 17 Sep 2019 4:51

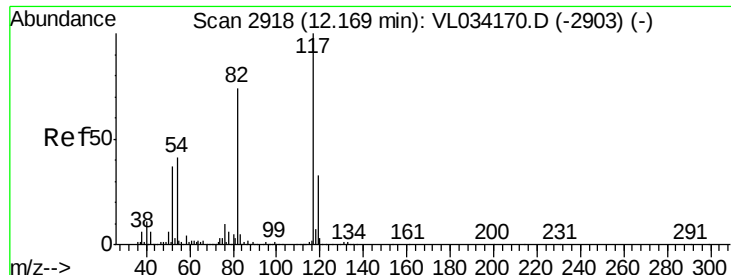
Tgt Ion: 107 Resp: 319460

Ion Ratio Lower Upper

107 100

109 91.9 74.5 111.7

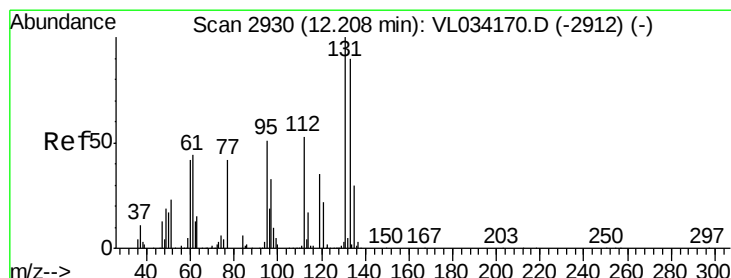
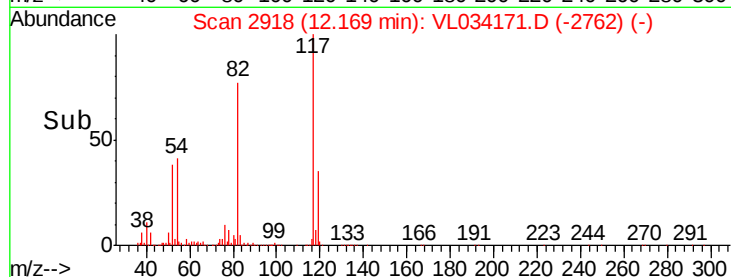
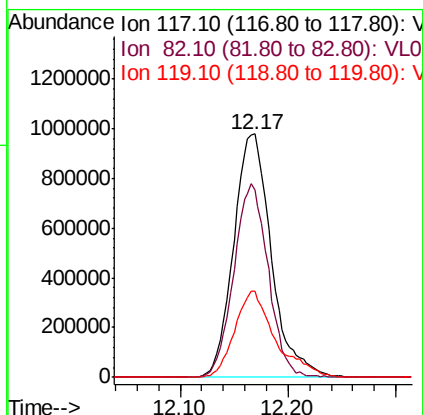
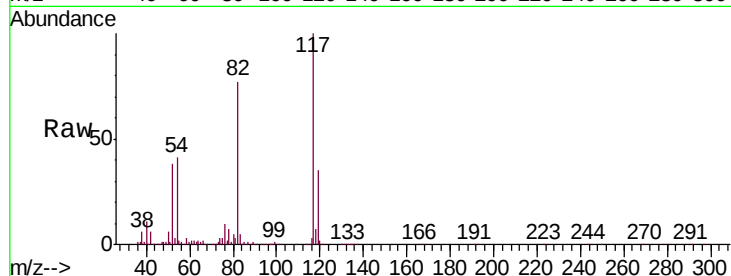




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

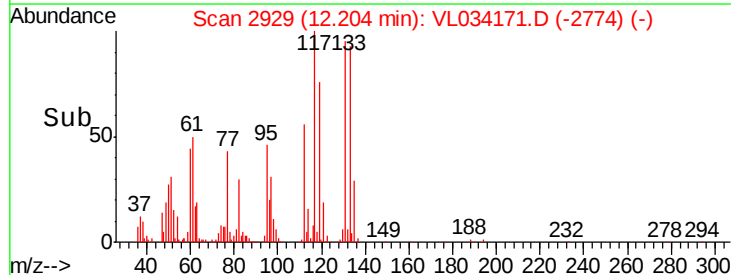
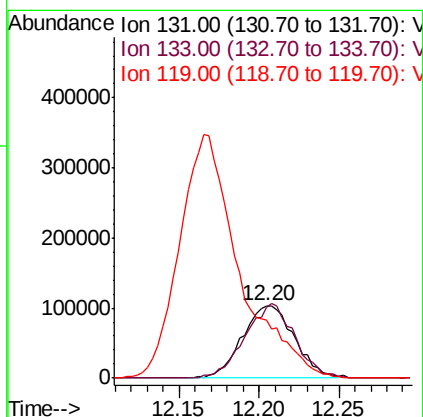
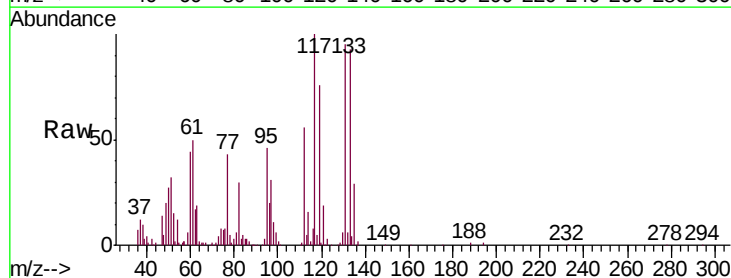
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

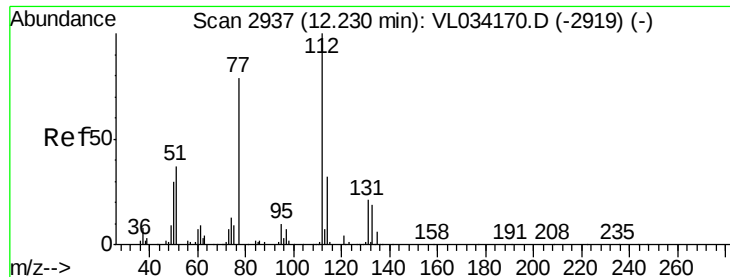
Tgt Ion:117 Resp: 2389349
Ion Ratio Lower Upper
117 100
82 72.6 58.2 87.4
119 37.9 23.7 35.5#



#56
1,1,1,2-Tetrachloroethane
Concen: 2.220 ppbv
RT: 12.20 min Scan# 2929
Delta R.T. -0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion:131 Resp: 230078
Ion Ratio Lower Upper
131 100
133 98.1 75.1 112.7
119 393.4 47.4 71.0#

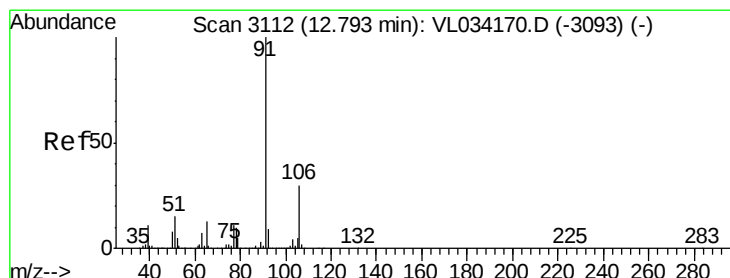
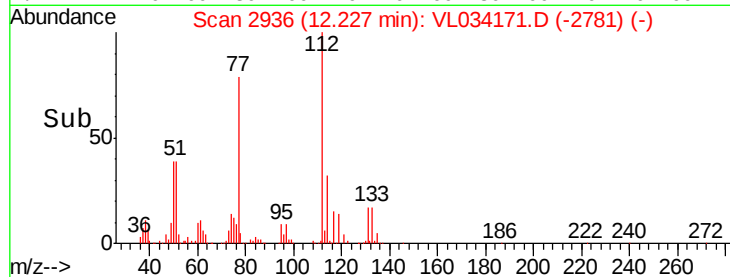
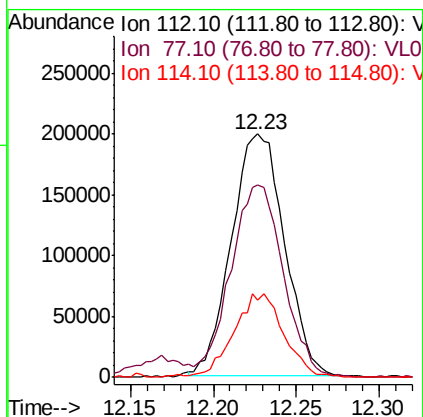
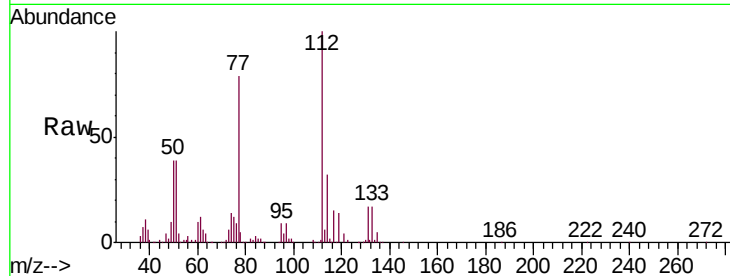




#57
Chlorobenzene
Concen: 2.127 ppbv
RT: 12.23 min Scan# 2936
Delta R.T. -0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

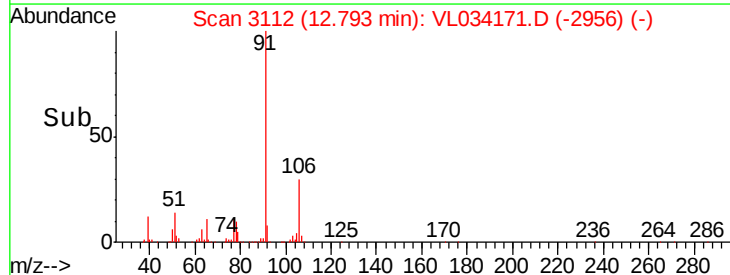
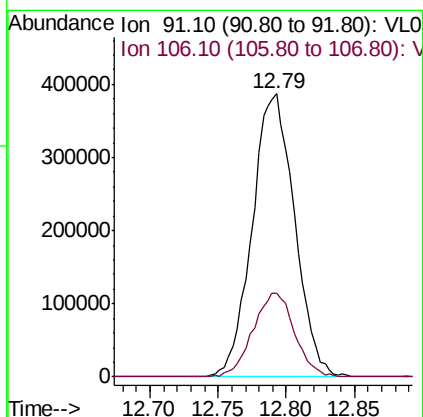
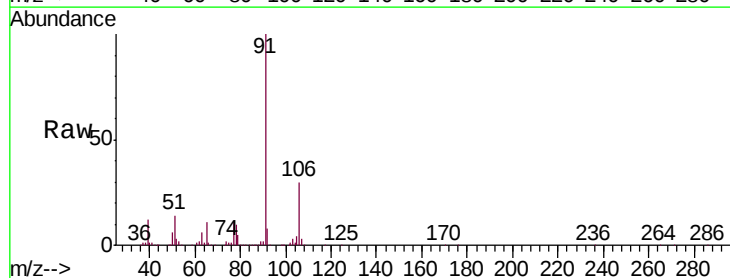
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

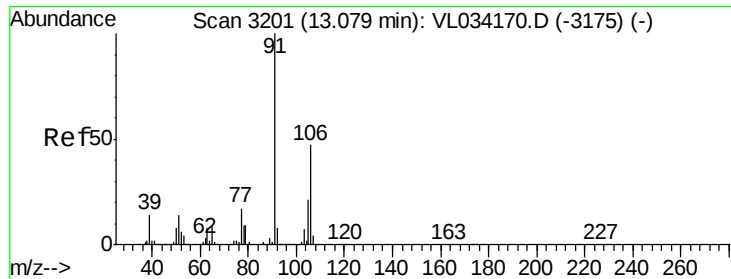
Tgt Ion: 112 Resp: 438655
Ion Ratio Lower Upper
112 100
77 78.8 64.3 96.5
114 31.4 28.9 35.3



#58
Ethyl Benzene
Concen: 2.122 ppbv
RT: 12.79 min Scan# 3112
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion: 91 Resp: 833001
Ion Ratio Lower Upper
91 100
106 29.6 24.2 36.4

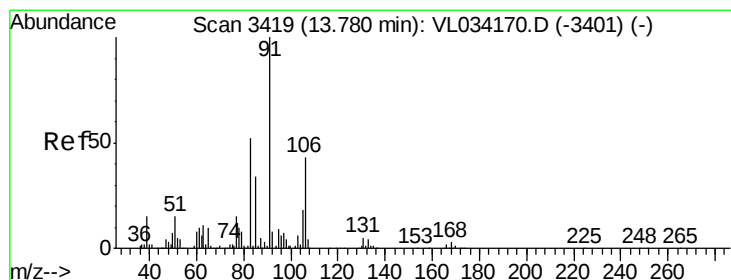
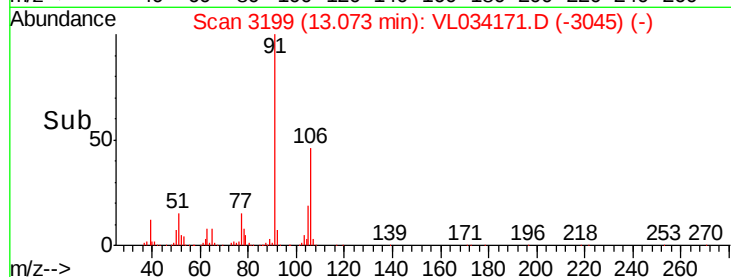
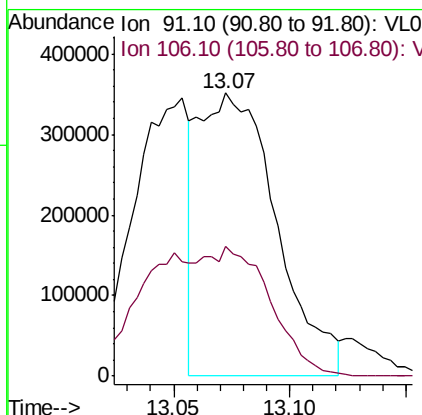
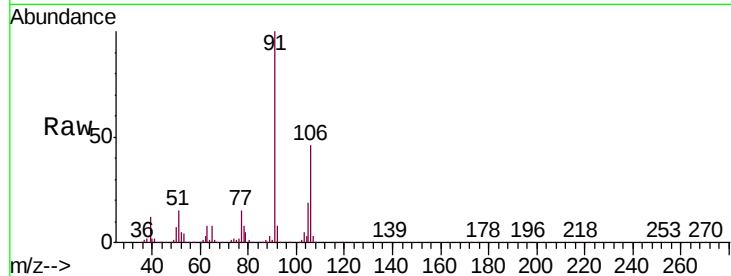




#59
m/p-Xylene
Concen: 2.548 ppbv
RT: 13.07 min Scan# 3199
Delta R.T. -0.01 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

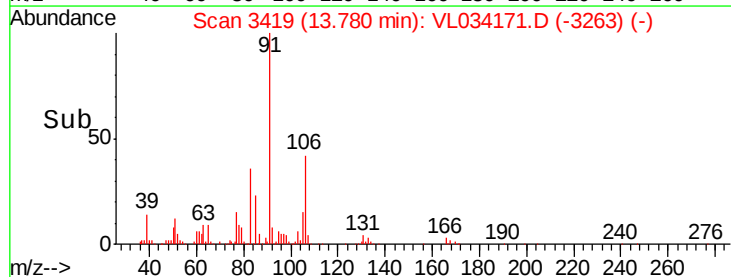
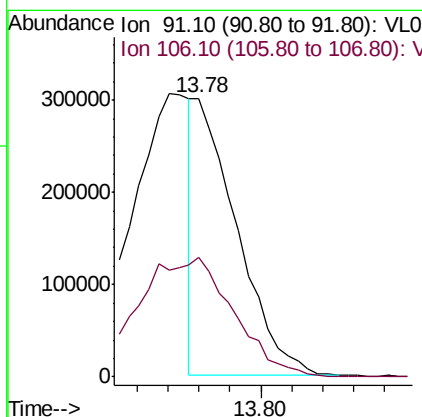
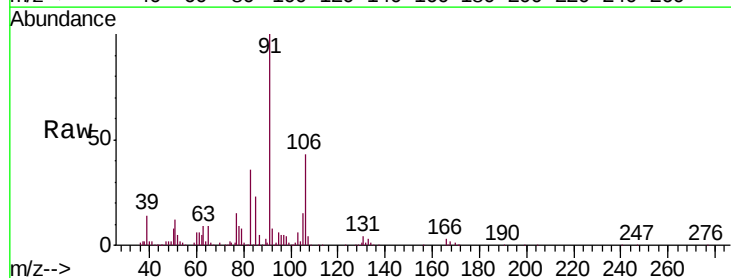
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

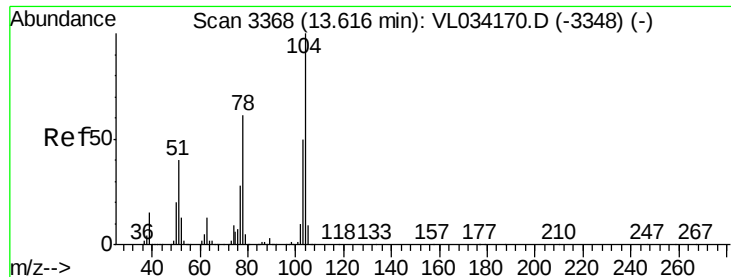
Tgt Ion: 91 Resp: 815896
Ion Ratio Lower Upper
91 100
106 73.5 35.5 53.3#



#60
o-Xylene
Concen: 0.891 ppbv
RT: 13.78 min Scan# 3419
Delta R.T. 0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion: 91 Resp: 284595
Ion Ratio Lower Upper
91 100
106 100.4 21.2 63.6#





#61

Styrene

Concen: 2.146 ppbv

RT: 13.61 min Scan# 3365

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

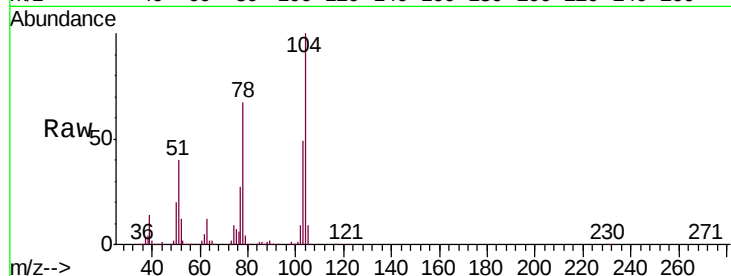
Tgt Ion:104 Resp: 509794

Ion Ratio Lower Upper

104 100

78 60.0 49.7 74.5

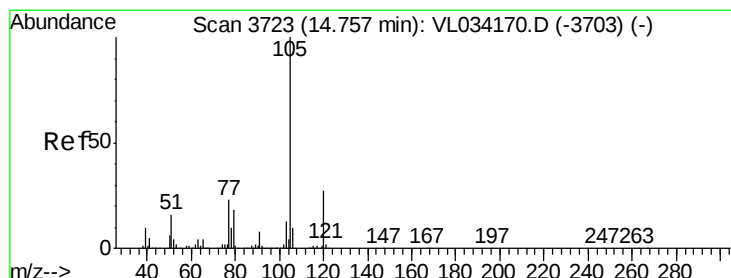
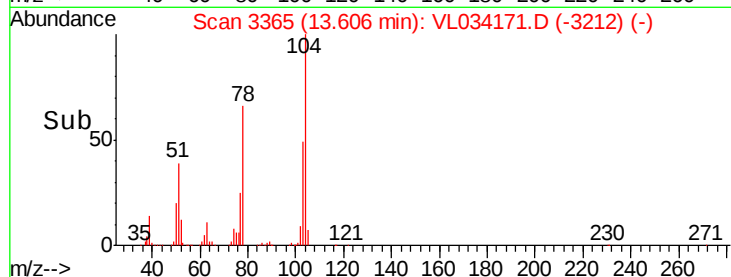
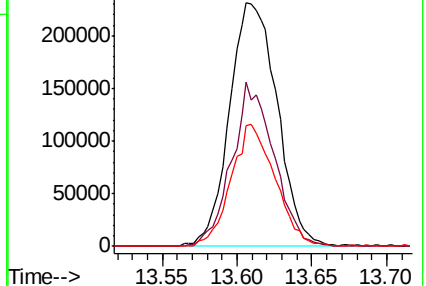
103 46.8 38.4 57.6



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: 2.203 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. -0.00 min

Lab File: VL034171.D

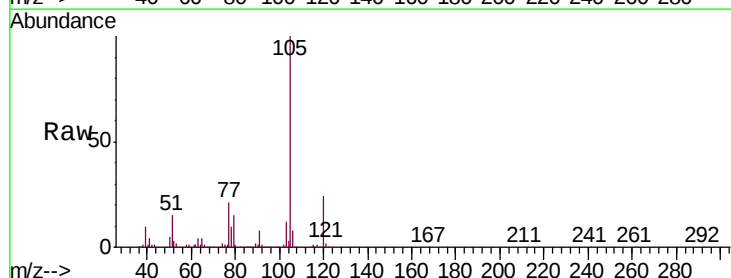
Acq: 17 Sep 2019 4:51

Tgt Ion:105 Resp: 915672

Ion Ratio Lower Upper

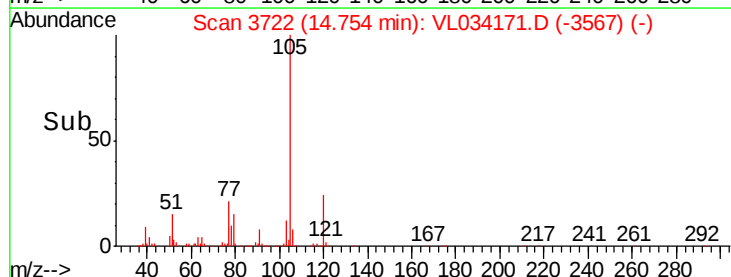
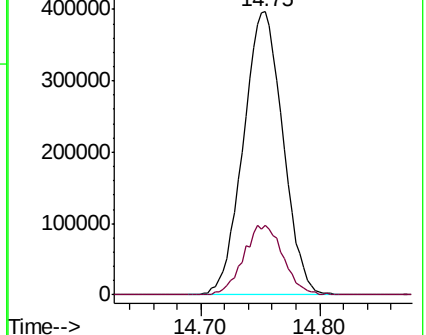
105 100

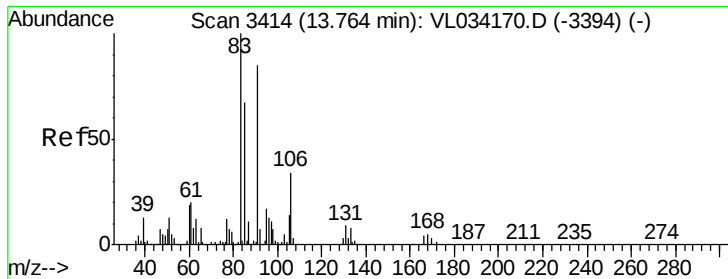
120 24.4 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

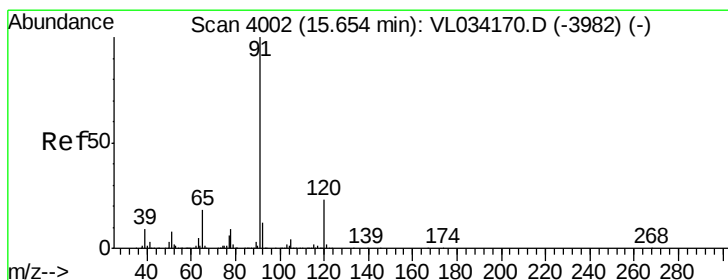
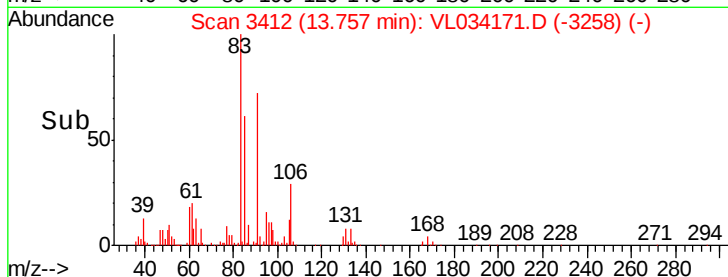
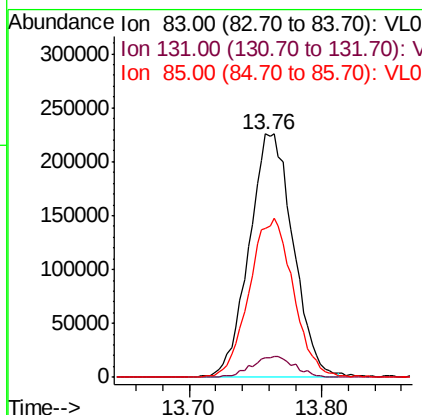
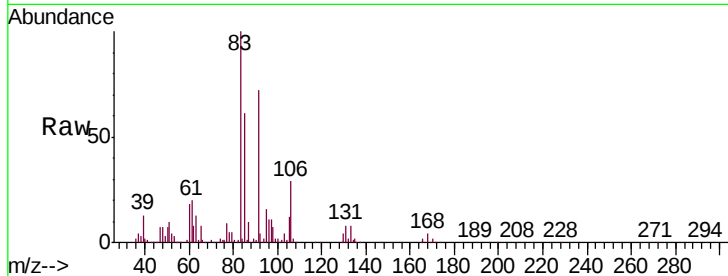




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.997 ppbv
 RT: 13.76 min Scan# 3412
 Delta R.T. -0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

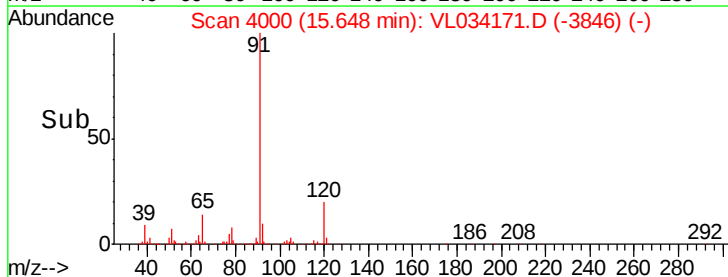
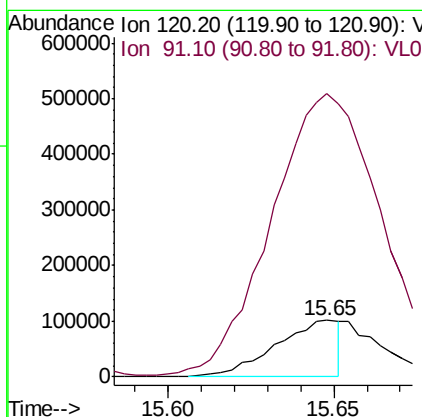
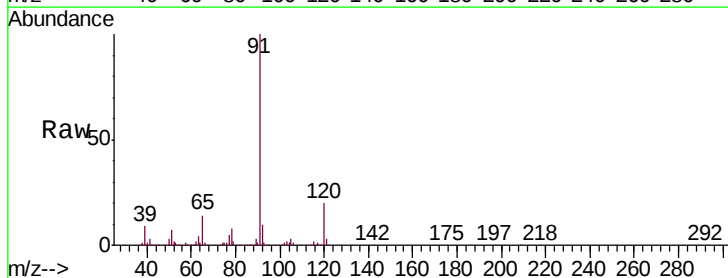
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

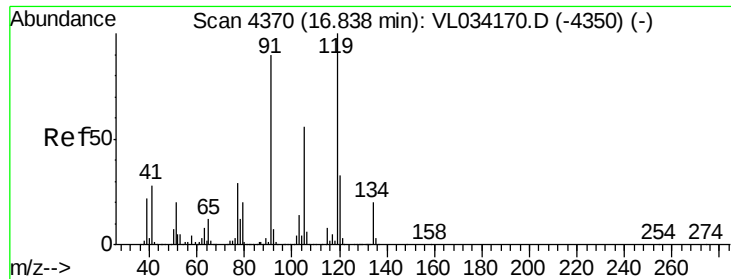
Tgt Ion: 83 Resp: 520672
 Ion Ratio Lower Upper
 83 100
 131 8.5 4.3 12.8
 85 65.5 32.8 98.4



#64
 n-propylbenzene
 Concen: 1.322 ppbv
 RT: 15.65 min Scan# 4000
 Delta R.T. -0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion: 120 Resp: 137871
 Ion Ratio Lower Upper
 120 100
 91 860.3 378.2 567.2#





#65

tert-Butylbenzene

Concen: 2.232 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

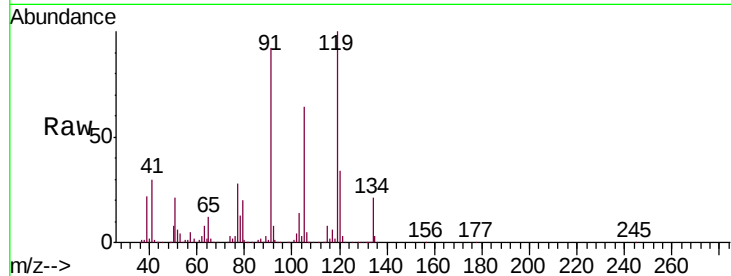
Tgt Ion: 119 Resp: 802464

Ion Ratio Lower Upper

119 100

91 93.3 74.9 112.3

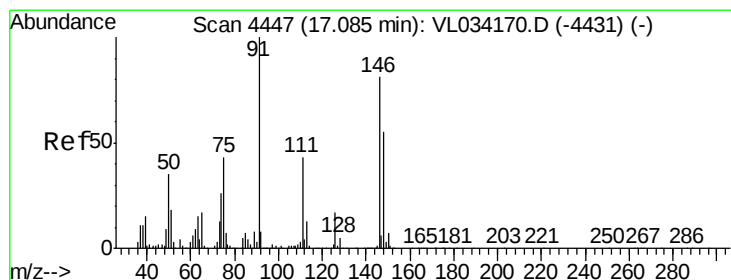
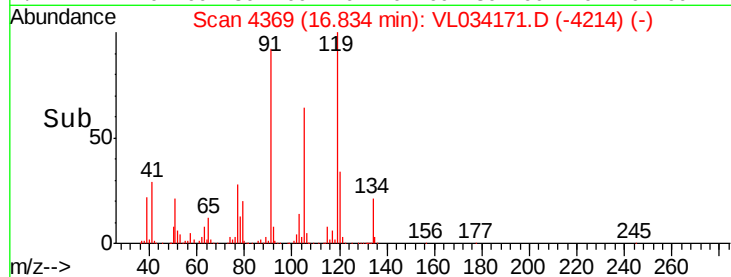
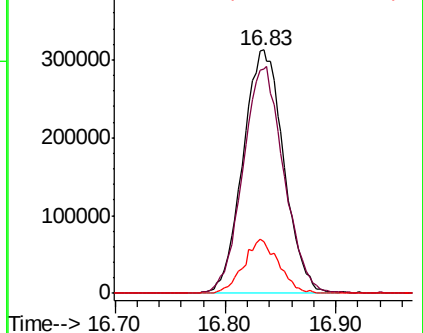
134 19.1 15.8 23.6



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 2.020 ppbv

RT: 17.08 min Scan# 4446

Delta R.T. -0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

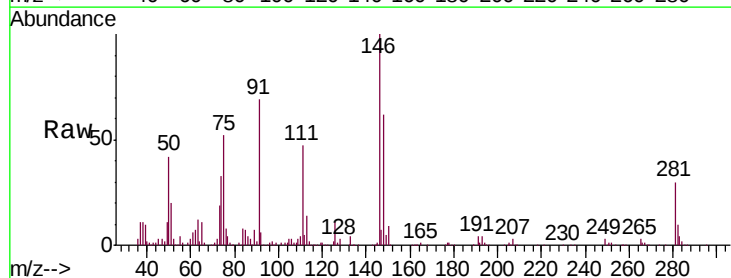
Tgt Ion: 91 Resp: 262649

Ion Ratio Lower Upper

91 100

126 14.9 12.6 19.0

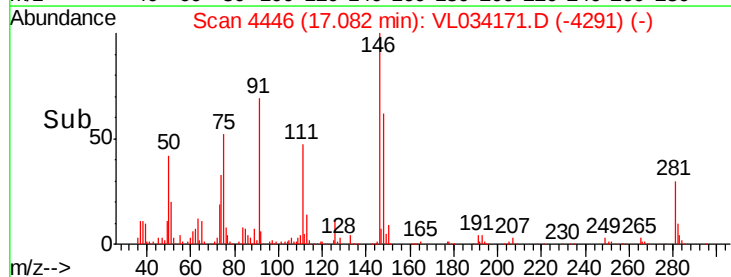
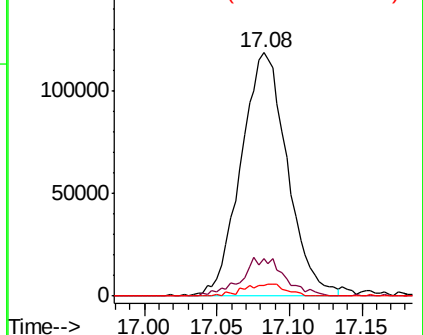
128 4.7 4.0 6.0

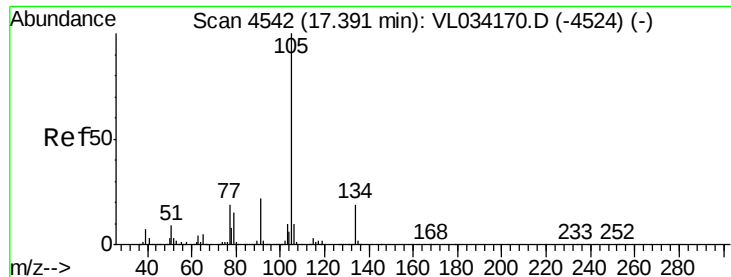


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

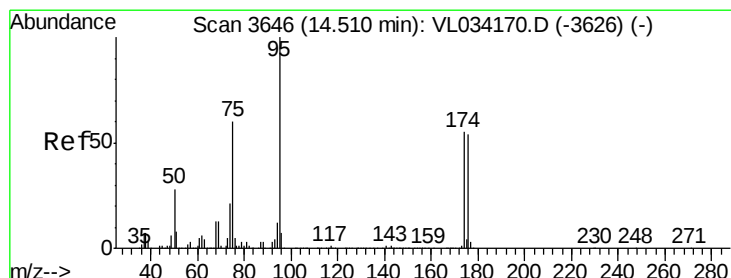
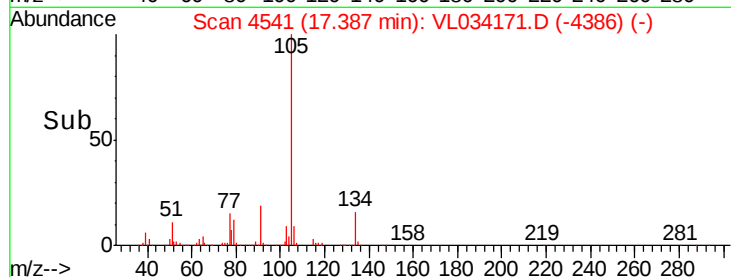
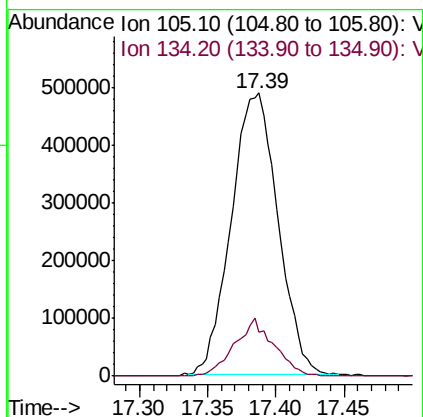
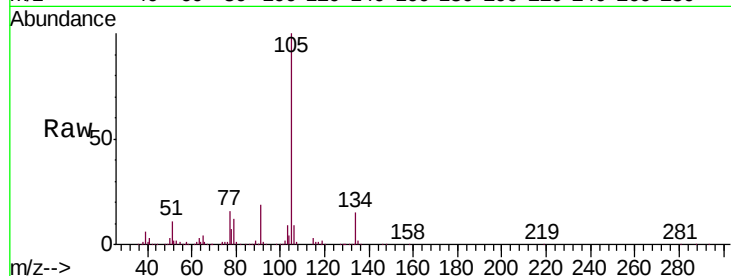




#67
 sec-Butylbenzene
 Concen: 2.244 ppbv
 RT: 17.39 min Scan# 4541
 Delta R.T. -0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

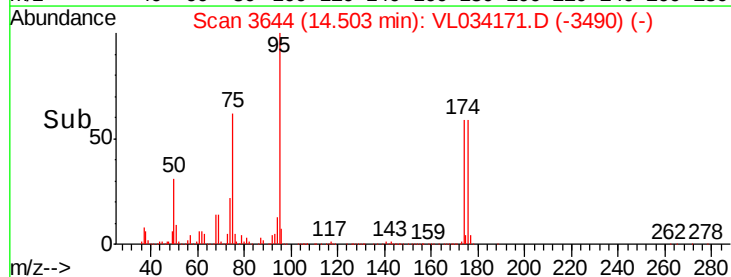
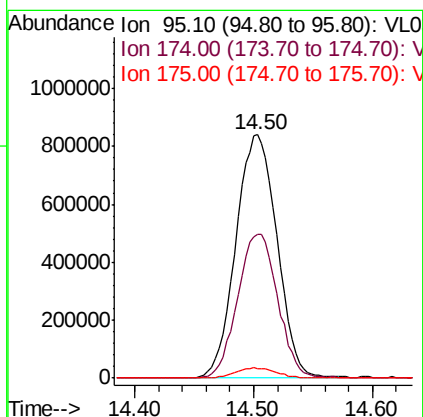
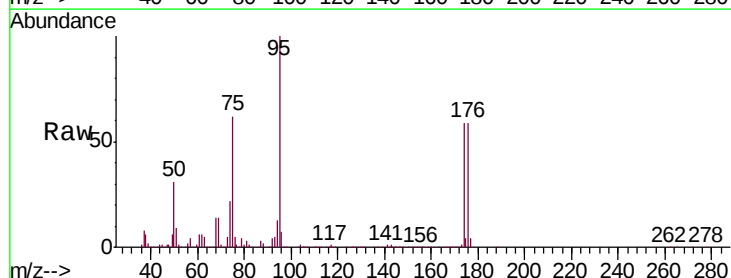
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

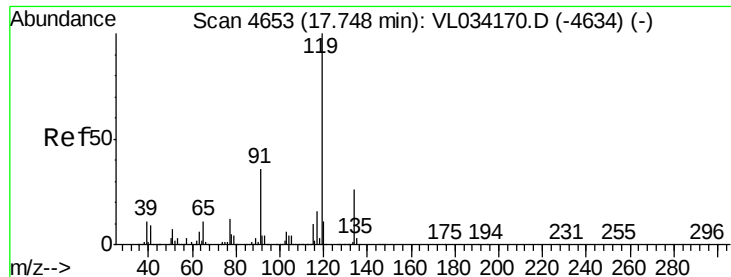
Tgt Ion: 105 Resp: 1162062
 Ion Ratio Lower Upper
 105 100
 134 17.3 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.193 ppbv
 RT: 14.50 min Scan# 3644
 Delta R.T. -0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion: 95 Resp: 2008380
 Ion Ratio Lower Upper
 95 100
 174 58.3 45.1 67.7
 175 4.1 3.3 4.9

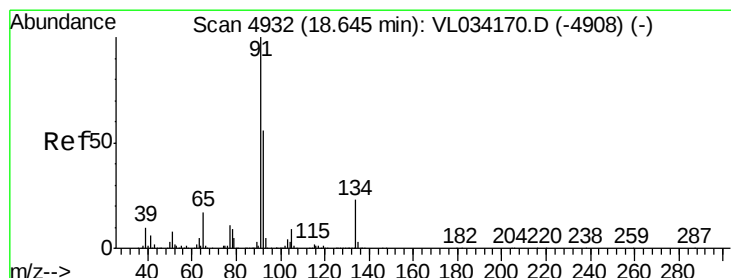
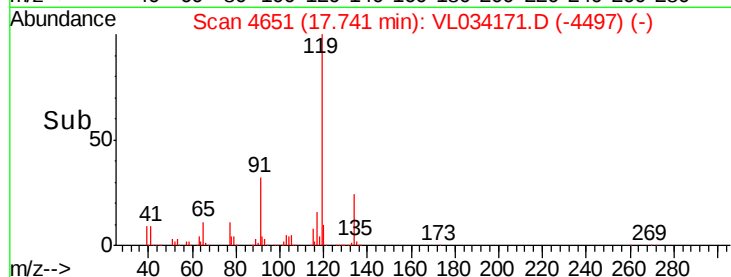
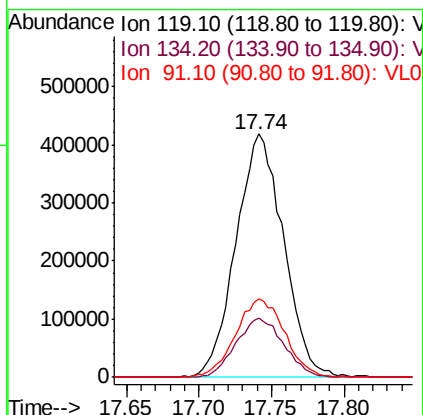
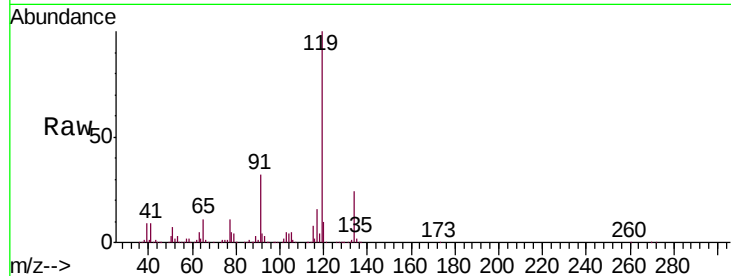




#69
p-Isopropyltoluene
Concen: 2.277 ppbv
RT: 17.74 min Scan# 4651
Delta R.T. -0.01 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

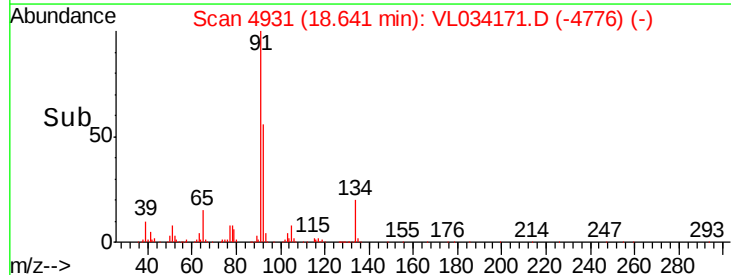
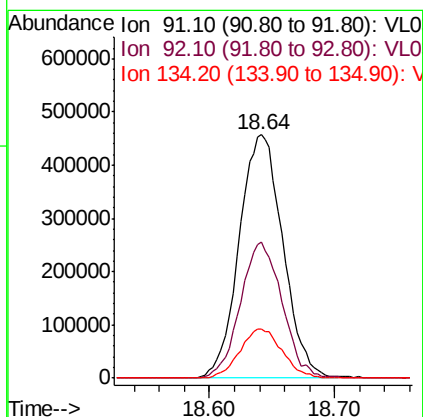
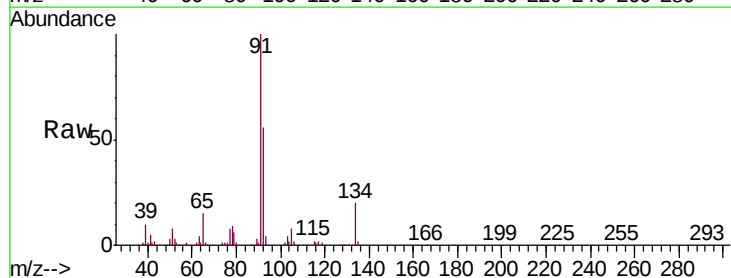
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

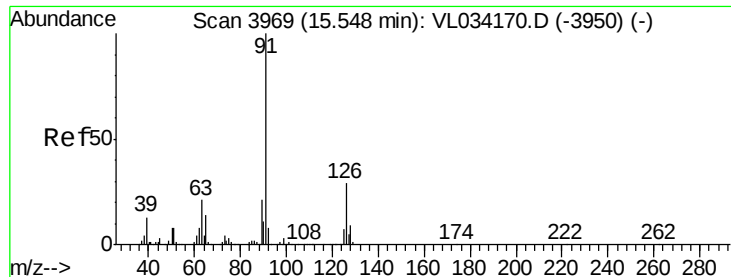
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.6	30.8
91	33.9	27.6	41.4



#70
n-Butylbenzene
Concen: 2.321 ppbv
RT: 18.64 min Scan# 4931
Delta R.T. -0.00 min
Lab File: VL034171.D
Acq: 17 Sep 2019 4:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	44.8	67.2
134	19.9	17.3	25.9

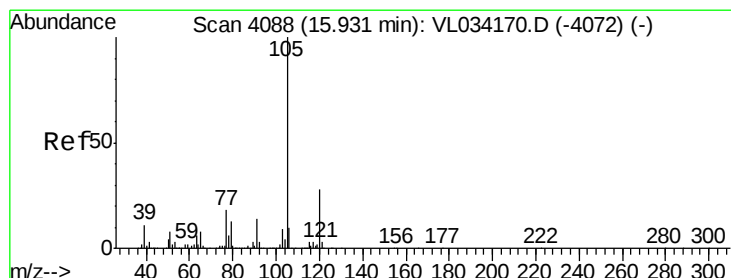
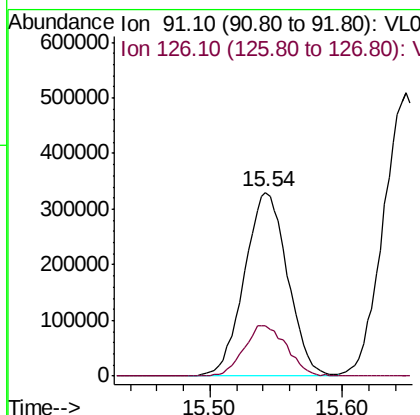
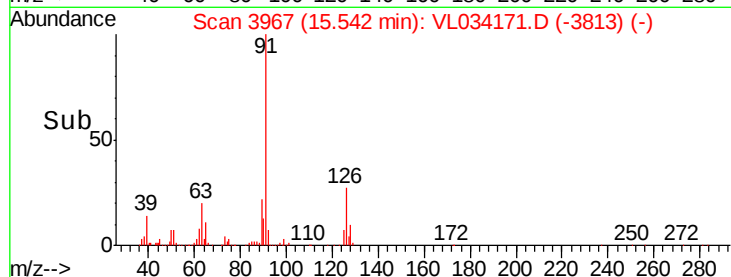
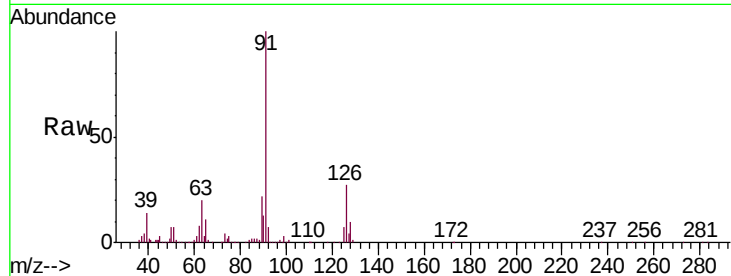




#71
 2-Chlorotoluene
 Concen: 2.187 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

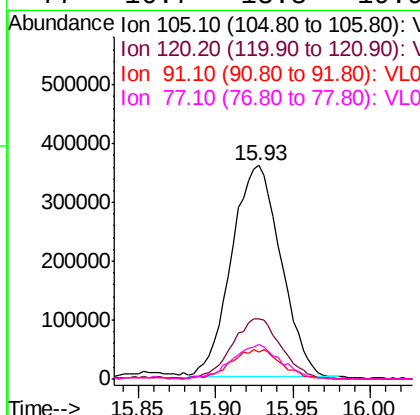
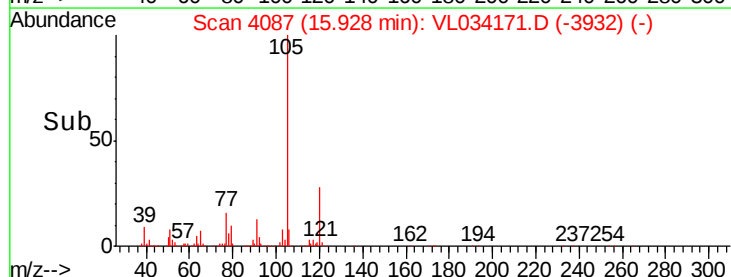
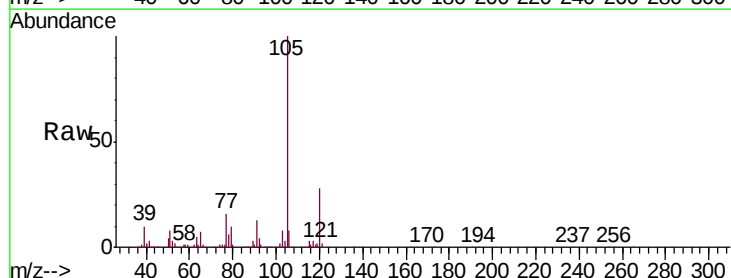
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

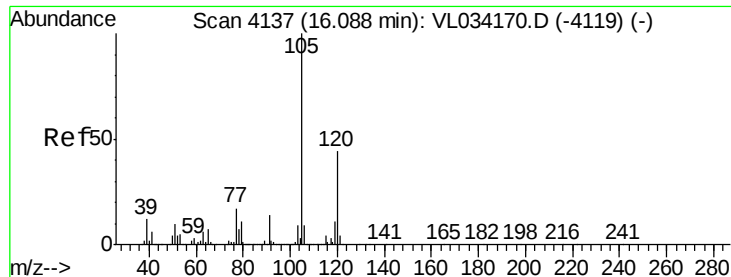
Tgt Ion: 91 Resp: 742868
 Ion Ratio Lower Upper
 91 100
 126 27.5 11.2 45.0



#72
 4-Ethyltoluene
 Concen: 2.214 ppbv
 RT: 15.93 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion: 105 Resp: 799114
 Ion Ratio Lower Upper
 105 100
 120 28.6 23.3 34.9
 91 14.3 11.4 17.2
 77 16.7 13.3 19.9

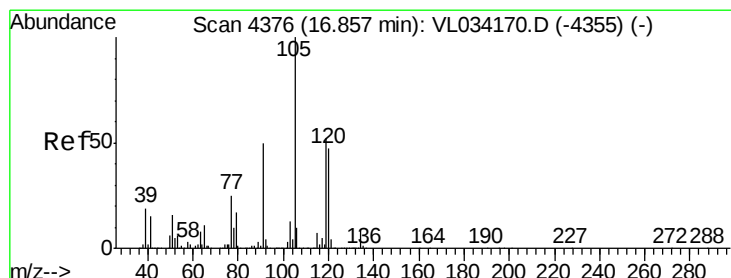
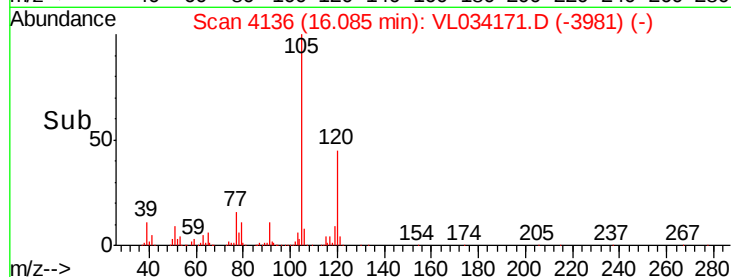
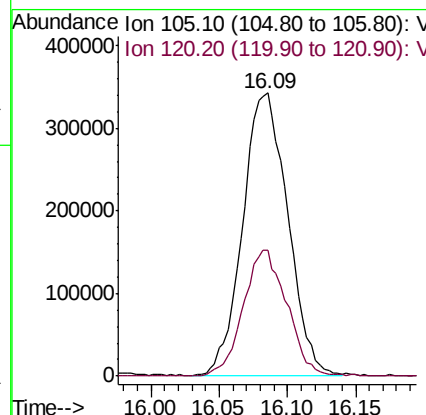
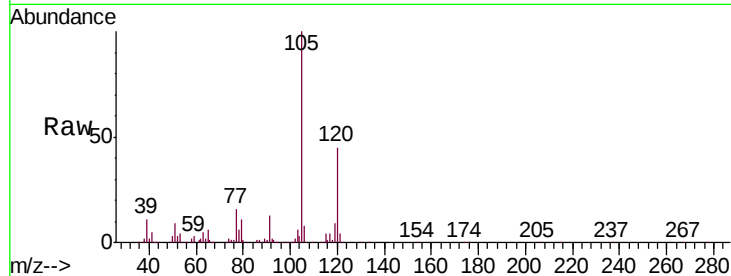




#73
 1,3,5-Trimethylbenzene
 Concen: 2.235 ppbv
 RT: 16.09 min Scan# 4136
 Delta R.T. -0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

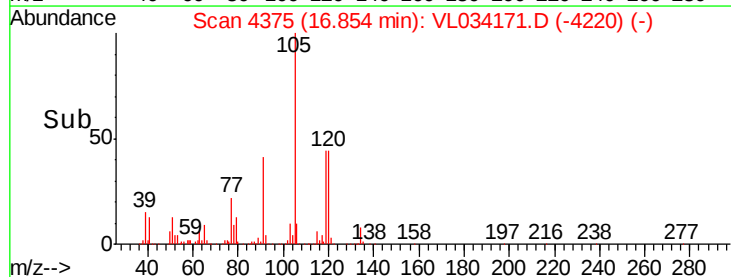
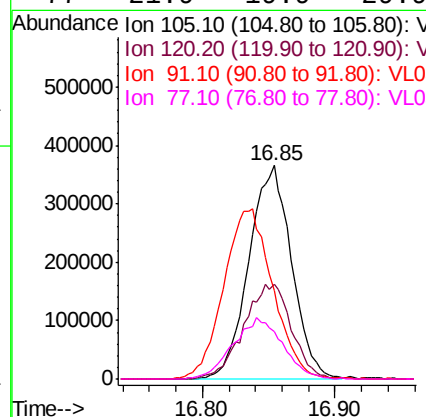
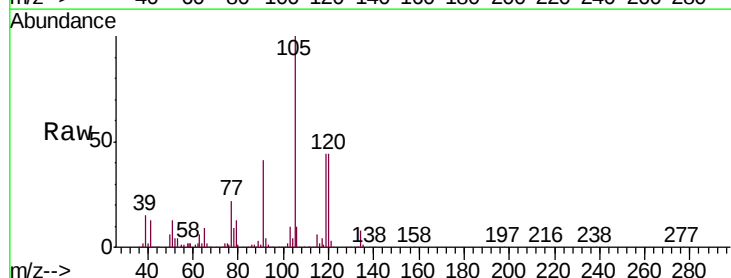
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

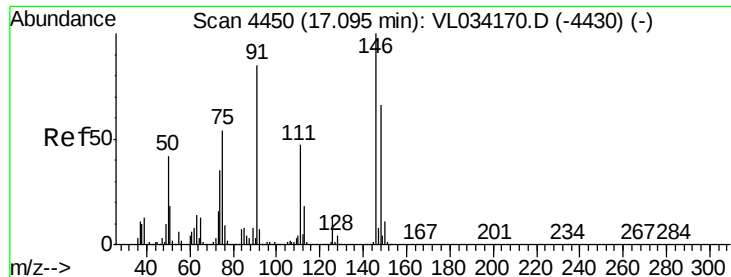
Tgt Ion:105 Resp: 783706
 Ion Ratio Lower Upper
 105 100
 120 44.8 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 2.257 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. -0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion:105 Resp: 817739
 Ion Ratio Lower Upper
 105 100
 120 44.3 37.5 56.3
 91 40.3 41.1 61.7#
 77 21.9 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 2.227 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

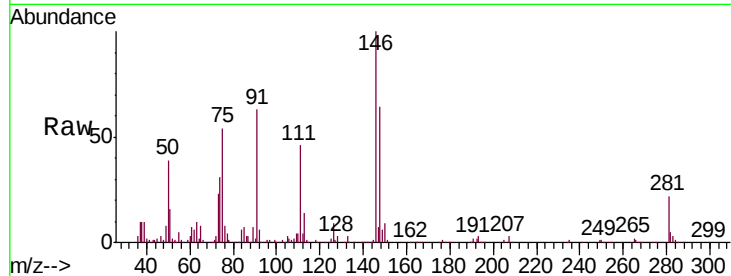
Tgt Ion:146 Resp: 427629

Ion Ratio Lower Upper

146 100

111 51.5 25.9 77.8

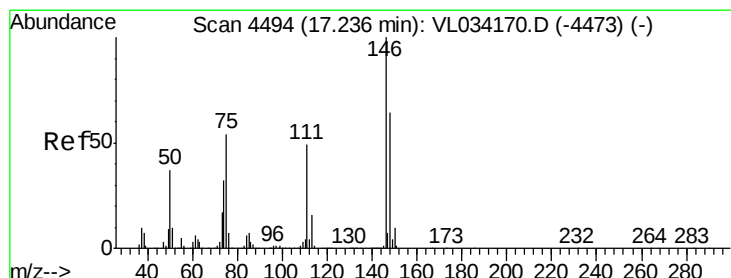
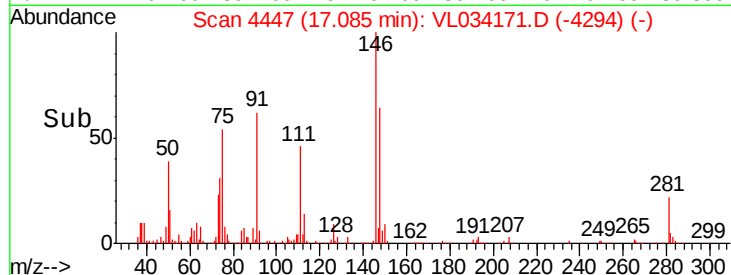
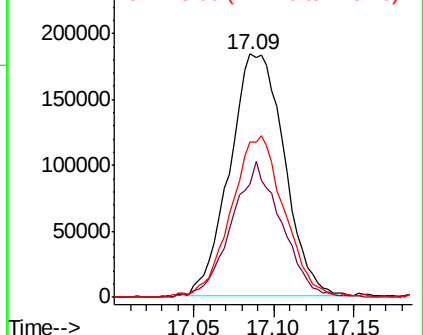
148 65.4 32.6 97.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 2.176 ppbv

RT: 17.23 min Scan# 4492

Delta R.T. -0.01 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

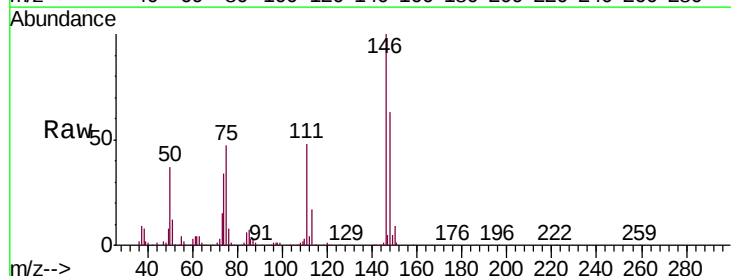
Tgt Ion:146 Resp: 437047

Ion Ratio Lower Upper

146 100

111 50.4 24.6 74.0

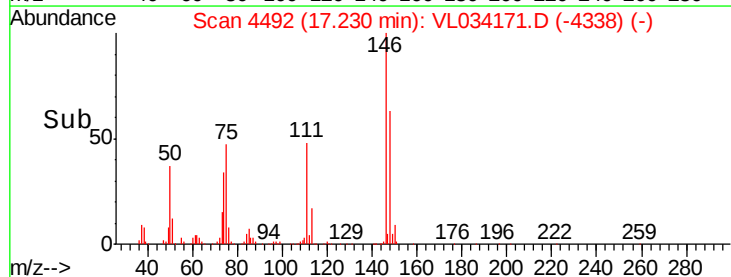
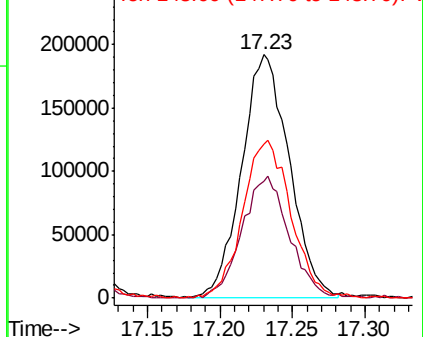
148 66.5 32.4 97.0

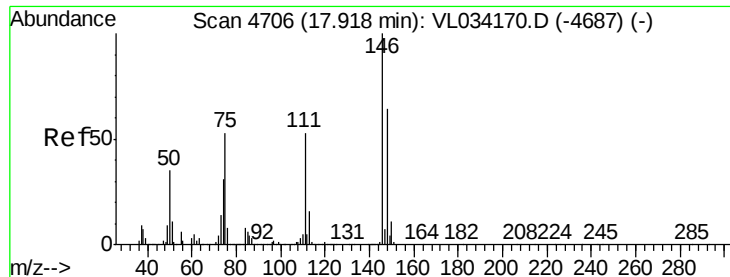


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

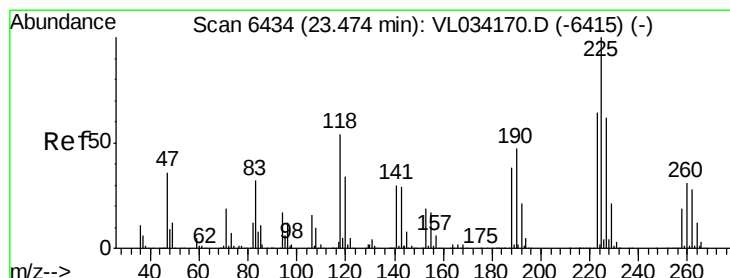
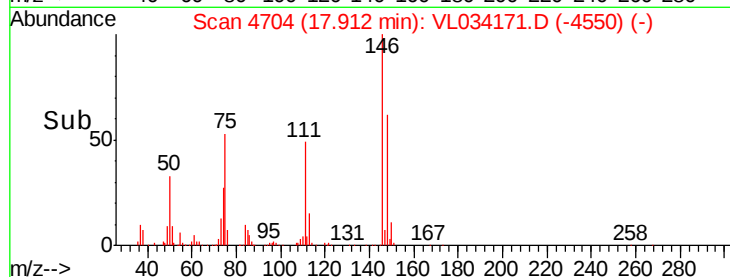
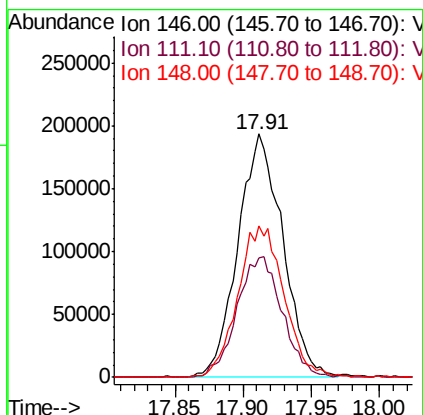
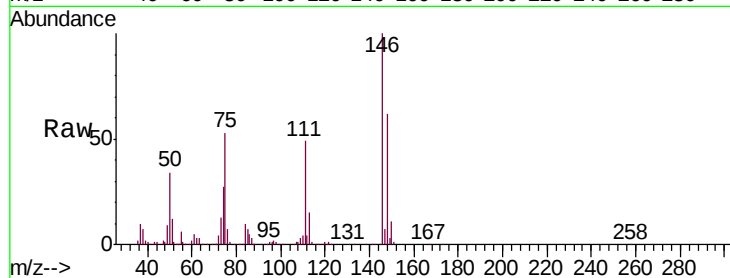




#77
 1,2-Dichlorobenzene
 Concen: 2.236 ppbv
 RT: 17.91 min Scan# 4704
 Delta R.T. -0.01 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

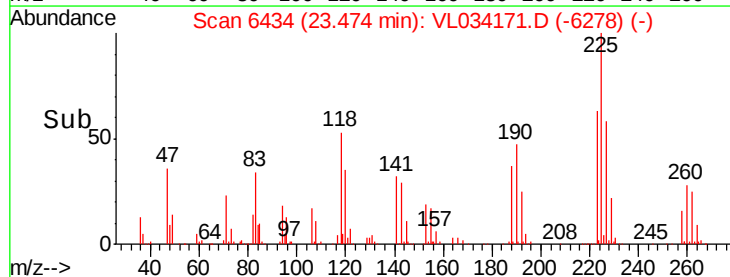
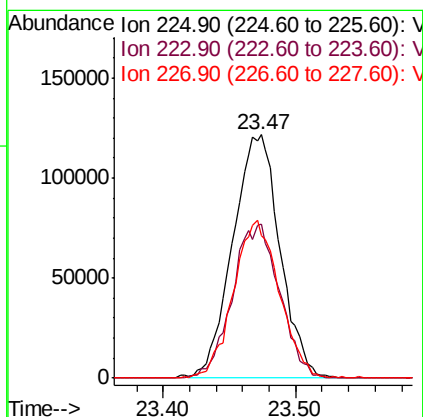
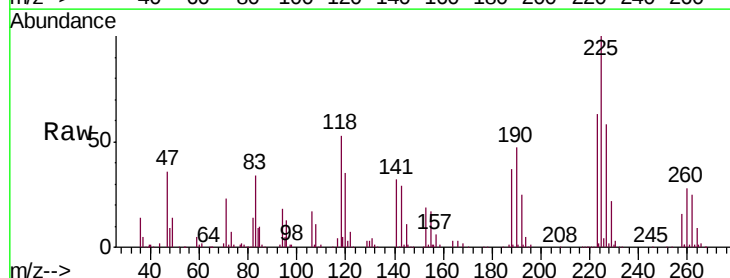
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

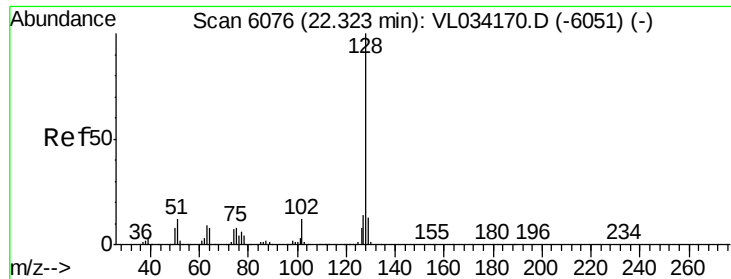
Tgt Ion:146 Resp: 438952
 Ion Ratio Lower Upper
 146 100
 111 50.6 26.1 78.3
 148 64.8 31.9 95.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.264 ppbv
 RT: 23.47 min Scan# 6434
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Tgt Ion:225 Resp: 299972
 Ion Ratio Lower Upper
 225 100
 223 63.4 51.7 77.5
 227 63.3 52.1 78.1





#79

Naphthalene

Concen: 2.307 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

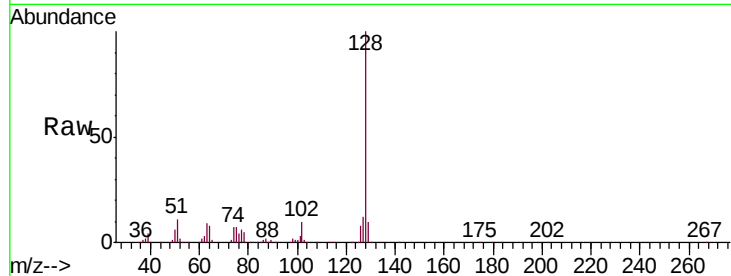
Tgt Ion:128 Resp: 747924

Ion Ratio Lower Upper

128 100

127 12.3 11.1 16.7

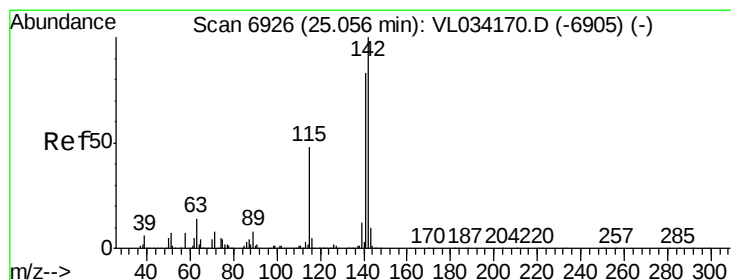
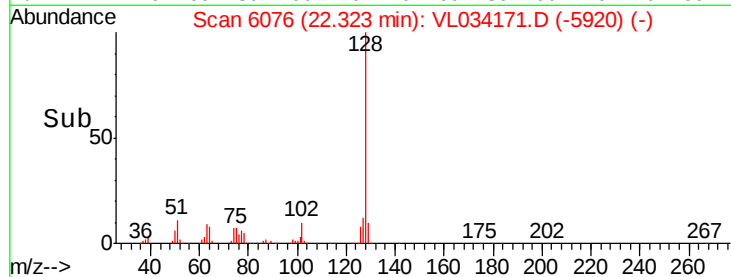
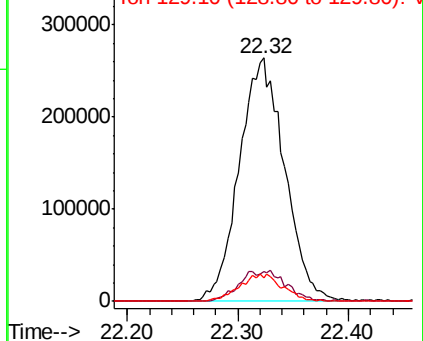
129 9.7 10.2 15.4#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 3.278 ppbv

RT: 25.06 min Scan# 6926

Delta R.T. 0.00 min

Lab File: VL034171.D

Acq: 17 Sep 2019 4:51

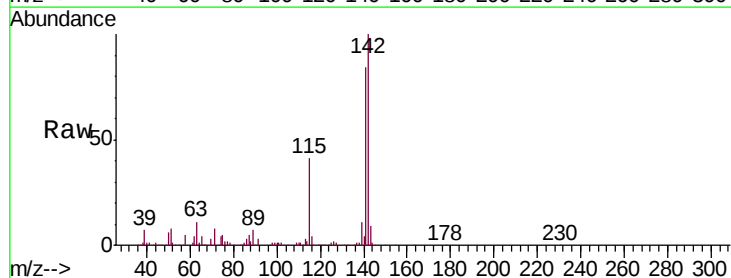
Tgt Ion:142 Resp: 359863

Ion Ratio Lower Upper

142 100

141 85.6 67.6 101.4

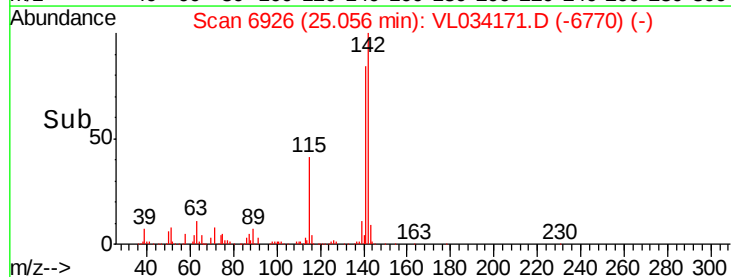
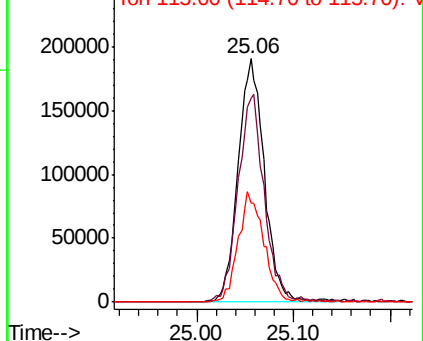
115 44.5 36.9 55.3

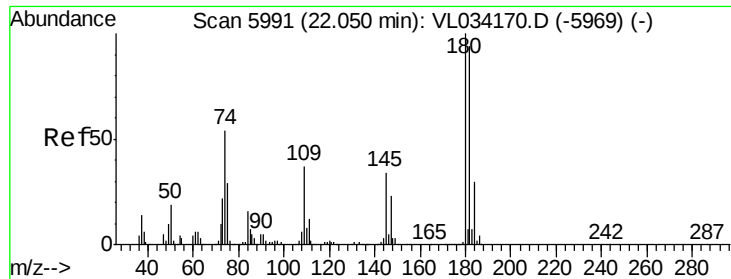


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

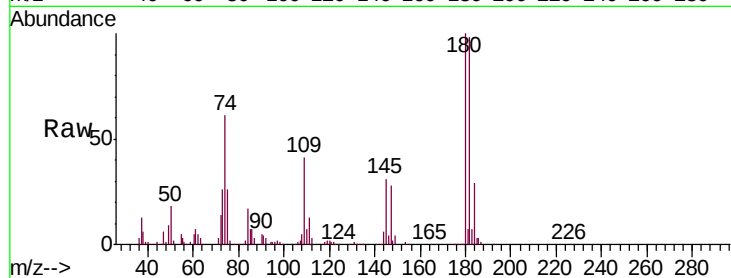




#81
 1,2,4-Trichlorobenzene
 Concen: 0.931 ppbv
 RT: 22.05 min Scan# 5992
 Delta R.T. 0.00 min
 Lab File: VL034171.D
 Acq: 17 Sep 2019 4:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:180 Resp: 164930
 Ion Ratio Lower Upper
 180 100
 182 235.0 77.4 116.2#
 184 76.3 25.0 37.4#



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

