

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032919\
 Data File : VL033529.D
 Acq On : 30 Mar 2019 8:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Mar 31 00:52:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	769424	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1763144	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2336025	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1416679	7.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	77.40%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	1666578	14.851	ppbv	100
3) Chlorodifluoromethane	3.01	51	1015332	11.462	ppbv	100
4) Chloromethane	3.17	50	546161	11.651	ppbv	99
5) Vinyl Chloride	3.29	62	558269	12.122	ppbv	100
6) Bromomethane	3.52	94	351176	11.865	ppbv	97
7) Chloroethane	3.60	64	200226	11.681	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1433199	11.986	ppbv	100
9) Propene	3.04	41	414871	11.152	ppbv	98
10) Heptane	8.25	43	1103678	11.099	ppbv	100
11) Trichlorofluoromethane	4.00	101	1599985	11.569	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1067452	11.491	ppbv	100
13) Ethanol	3.65	45	107109	11.127	ppbv	63
14) Bromoethene	3.79	108	428161	11.557	ppbv	99
15) Acetone	3.90	43	999683	10.806	ppbv	100
16) 1,3-Butadiene	3.36	39	471876	12.859	ppbv	92
17) tert-Butyl alcohol	4.36	59	173048	10.173	ppbv	98
18) 1,1-Dichloroethene	4.35	96	468009	11.729	ppbv	97
19) Isopropyl Alcohol	4.02	45	608554	10.400	ppbv #	98
20) Methylene Chloride	4.41	84	411601	10.481	ppbv	100
21) Allyl Chloride	4.48	41	710652	12.151	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	501575	12.049	ppbv	96
23) Vinyl Acetate	5.16	43	1576119	11.969	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1124329	11.240	ppbv	99
25) Ethyl Acetate	5.77	43	1954630	11.387	ppbv	100
26) Hexane	5.78	57	866510	11.354	ppbv	99
27) Carbon Disulfide	4.62	76	1158396	12.764	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1311395	11.930	ppbv	100
29) Chloroform	5.85	83	1482842	11.334	ppbv	98
30) Cyclohexane	7.25	84	709739	11.755	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	905841	11.938	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1490799	11.966	ppbv	99
34) 2-Butanone	5.33	43	1235483	11.663	ppbv	99
35) Carbon Tetrachloride	7.14	117	1588108	12.717	ppbv	97
36) Benzene	7.01	78	1727521	11.677	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1147371	11.571	ppbv	99
38) Trichloroethene	7.96	130	707520	12.708	ppbv	99
39) 1,2-Dichloropropane	7.74	63	659614	11.382	ppbv	98
40) 1,4-Dioxane	7.96	88	229400	11.098	ppbv	86
41) Tetrahydrofuran	6.15	42	683791	11.736	ppbv	97
42) Bromodichloromethane	7.92	83	1611116	11.929	ppbv	99
43) Methyl Methacrylate	8.14	69	724147	12.055	ppbv	98

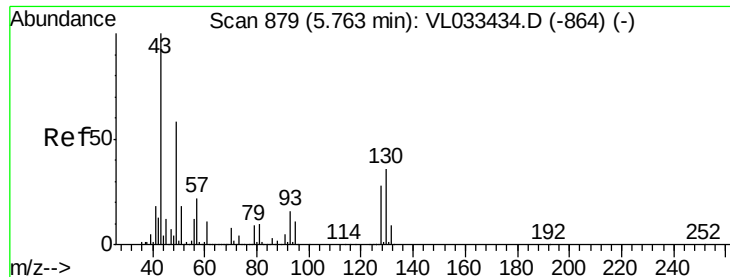
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032919\
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Quant Time: Mar 31 00:52:01 2019
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2975653	11.510	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	985742	13.365	ppbv	95
46) cis-1,3-Dichloropropene	8.84	75	1103107	12.808	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	741983	11.275	ppbv	97
48) Dibromochloromethane	10.46	129	1395390	12.571	ppbv	99
49) Bromoform	13.21	173	1292643	12.190	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1823367	11.755	ppbv	99
51) 2-Hexanone	10.27	43	1454472	12.570	ppbv #	99
52) Tetrachloroethene	11.37	164	701246	12.563	ppbv	98
53) Toluene	9.95	91	2113430	12.294	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1215376	11.808	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	994110	9.285	ppbv	98
57) Chlorobenzene	12.30	112	1641974	9.052	ppbv	97
58) Ethyl Benzene	12.87	91	3025629	9.699	ppbv	98
59) m/p-Xylene	13.16	91	2409349	8.647	ppbv #	100
60) o-Xylene	13.85	91	2575222	9.557	ppbv	100
61) Styrene	13.69	104	1863078	10.075	ppbv	99
62) Isopropylbenzene	14.83	105	3562797	9.337	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1794873	9.047	ppbv	100
64) n-propylbenzene	15.73	120	913873	9.439	ppbv	99
65) tert-Butylbenzene	16.91	119	3275437	9.742	ppbv	99
66) Benzyl Chloride	17.16	91	1864420	11.925	ppbv	100
67) sec-Butylbenzene	17.46	105	4649798	9.724	ppbv	100
69) p-Isopropyltoluene	17.82	119	3878483	9.962	ppbv	99
70) n-Butylbenzene	18.72	91	4099709	9.939	ppbv	100
71) 2-Chlorotoluene	15.62	91	2744381	9.459	ppbv	99
72) 4-Ethyltoluene	16.00	105	2978269	9.833	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2883165	9.947	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3028152	9.747	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1781468	9.278	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1769139	9.457	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1750306	9.607	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1316080	10.913	ppbv	99
79) Naphthalene	22.42	128	2901951	10.912	ppbv	100
80) Naphthalene,2-methyl-	25.12	142	1220736	13.678	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1496453	10.145	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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ClientSampleId :

VSTDCCC010EC

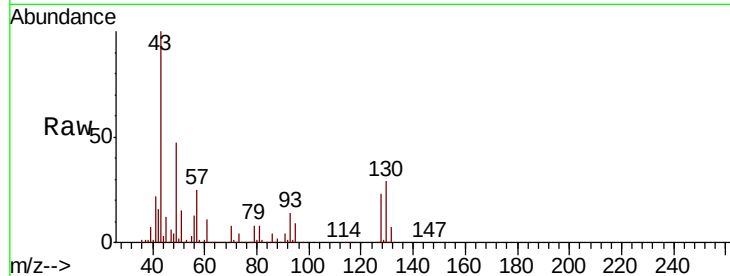
Tgt Ion: 49 Resp: 769424

Ion Ratio Lower Upper

49 100

128 48.2 24.0 72.0

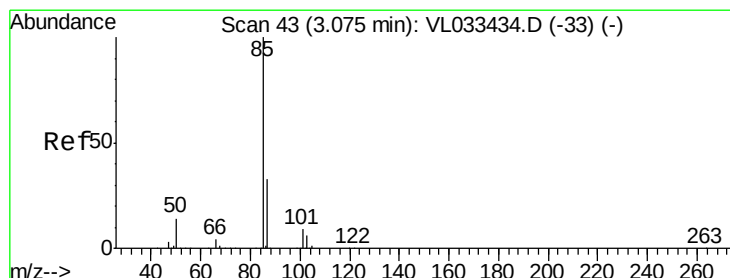
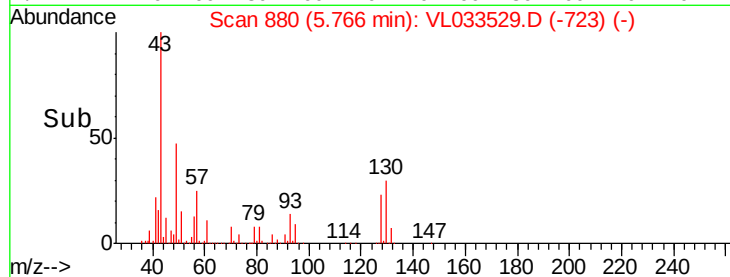
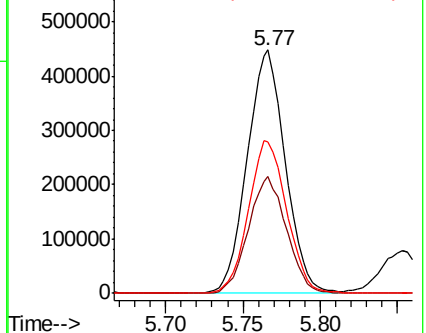
130 63.2 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 14.851 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033529.D

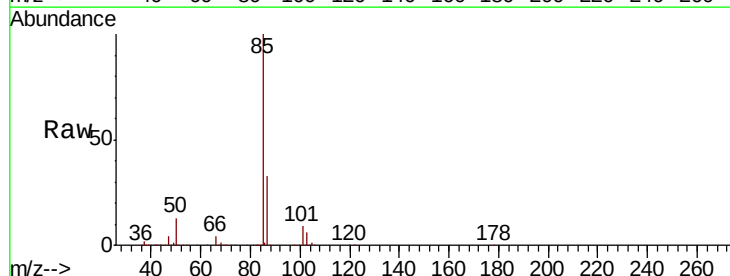
Acq: 30 Mar 2019 8:53

Tgt Ion: 85 Resp: 1666578

Ion Ratio Lower Upper

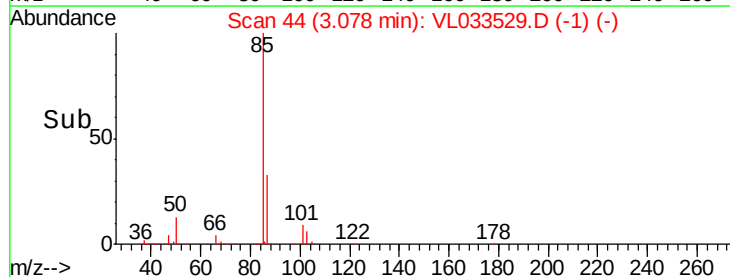
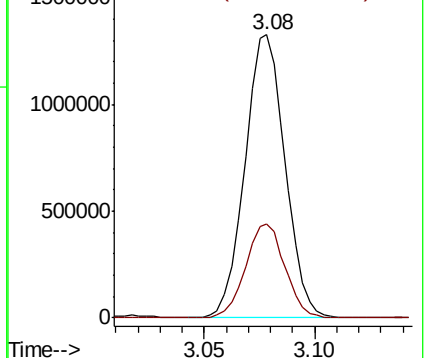
85 100

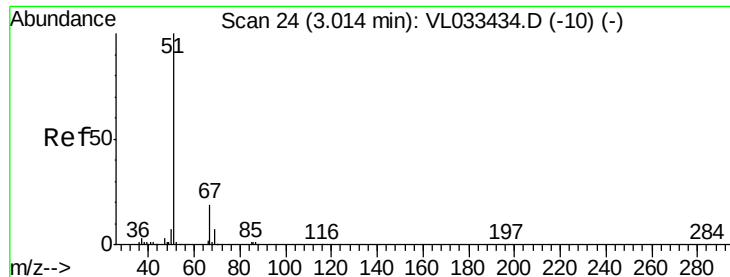
87 33.2 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 11.462 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

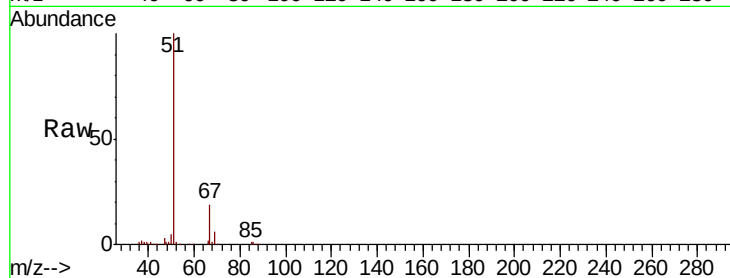
VSTDCCC010EC

Tgt Ion: 51 Resp: 1015332

Ion Ratio Lower Upper

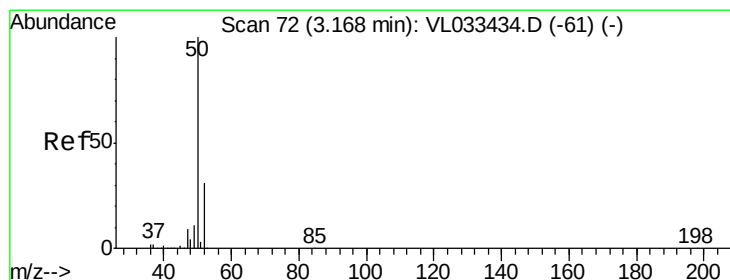
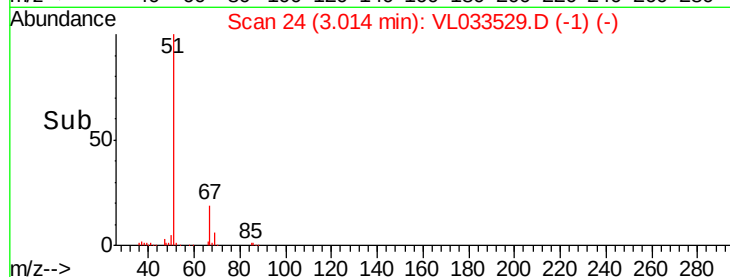
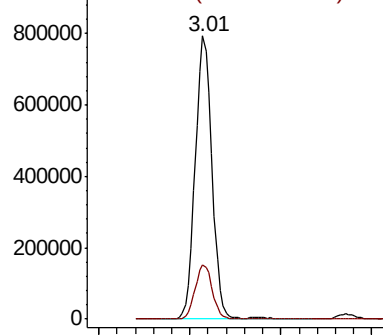
51 100

67 19.6 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 11.651 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033529.D

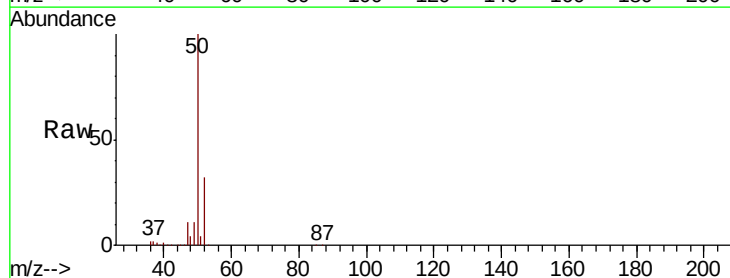
Acq: 30 Mar 2019 8:53

Tgt Ion: 50 Resp: 546161

Ion Ratio Lower Upper

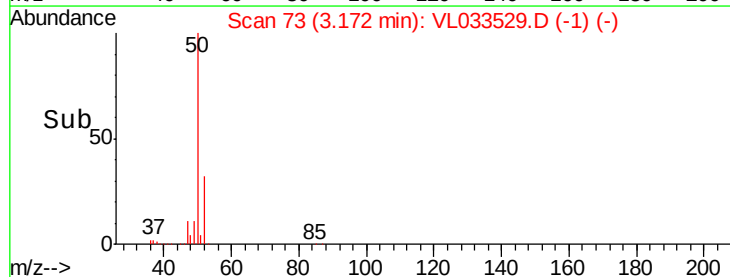
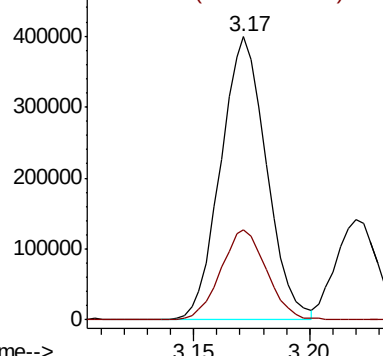
50 100

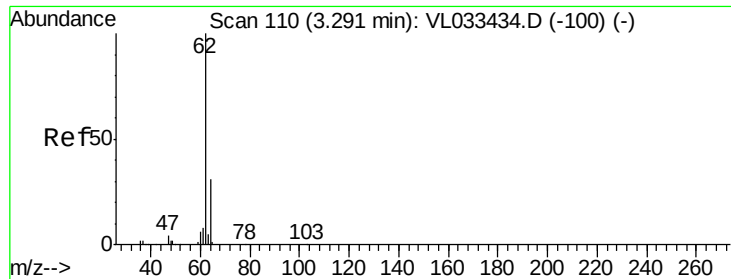
52 31.7 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 12.122 ppbv

RT: 3.29 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

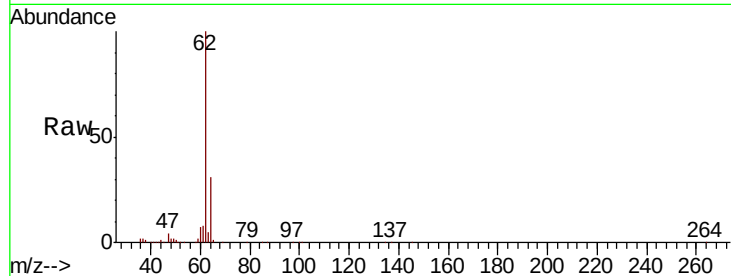
VSTDCCC010EC

Tgt Ion: 62 Resp: 558269

Ion Ratio Lower Upper

62 100

64 31.2 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

300000

200000

100000

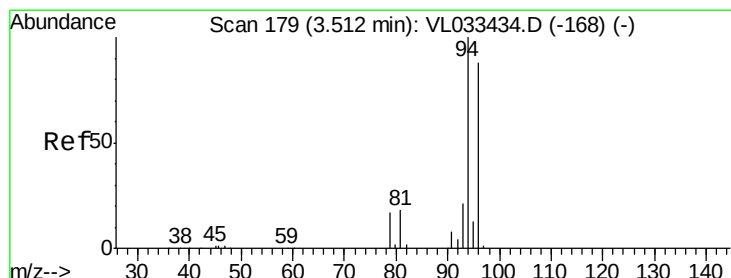
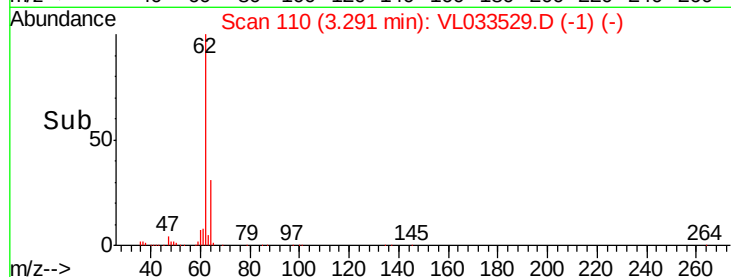
0

Time-->

3.25

3.30

3.35



#6

Bromomethane

Concen: 11.865 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033529.D

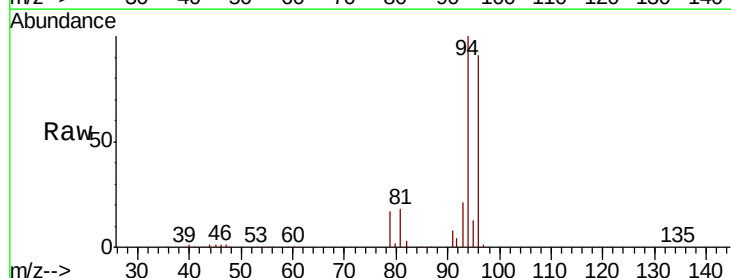
Acq: 30 Mar 2019 8:53

Tgt Ion: 94 Resp: 351176

Ion Ratio Lower Upper

94 100

96 90.5 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

250000

200000

150000

100000

50000

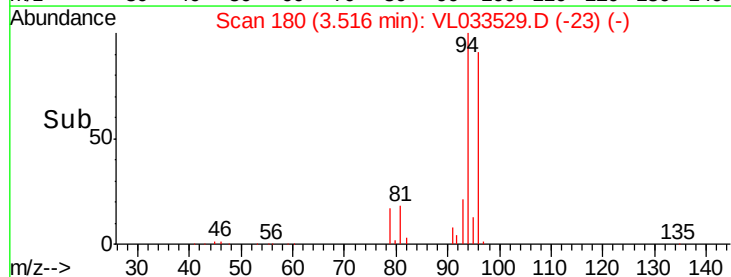
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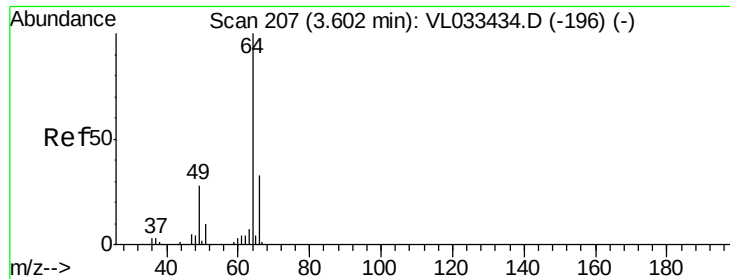
Time-->

3.45

3.50

3.55





#7

Chloroethane

Concen: 11.681 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

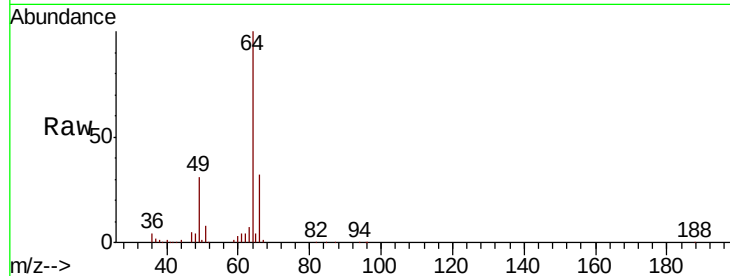
VSTDCCC010EC

Tgt Ion: 64 Resp: 200226

Ion Ratio Lower Upper

64 100

66 32.4 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

150000

100000

50000

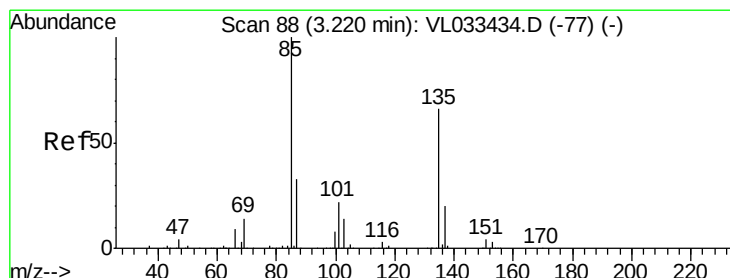
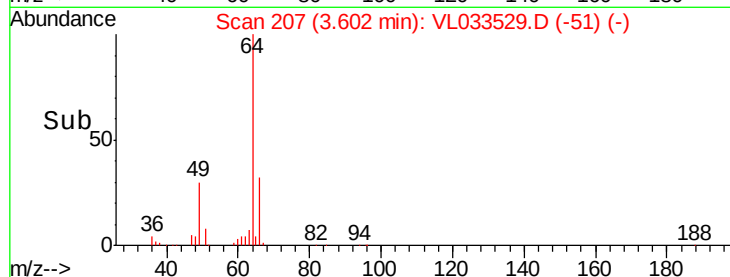
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Time-->

3.55

3.60

3.65



#8

Dichlorotetrafluoroethane

Concen: 11.986 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033529.D

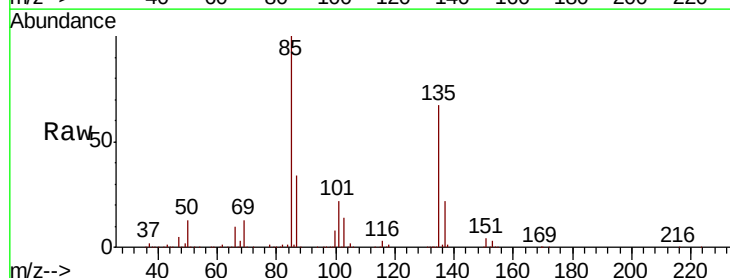
Acq: 30 Mar 2019 8:53

Tgt Ion: 85 Resp: 1433199

Ion Ratio Lower Upper

85 100

135 67.7 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

1200000

1000000

800000

600000

400000

200000

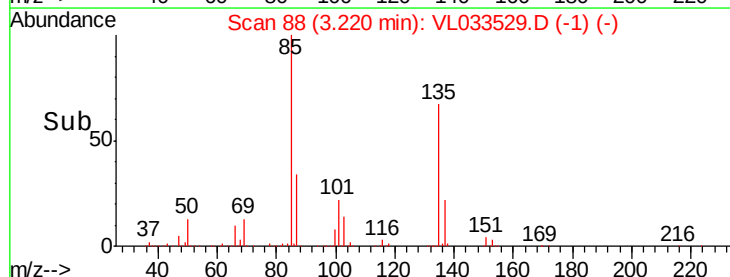
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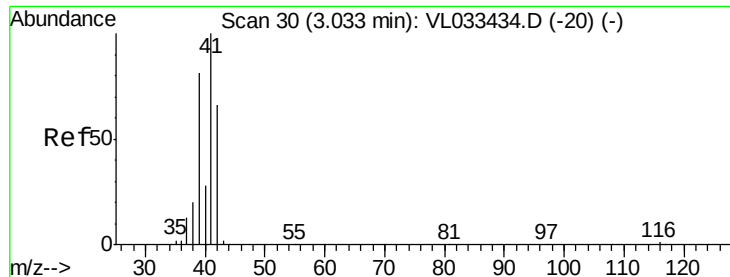
Time-->

3.15

3.20

3.25





#9

Propene

Concen: 11.152 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

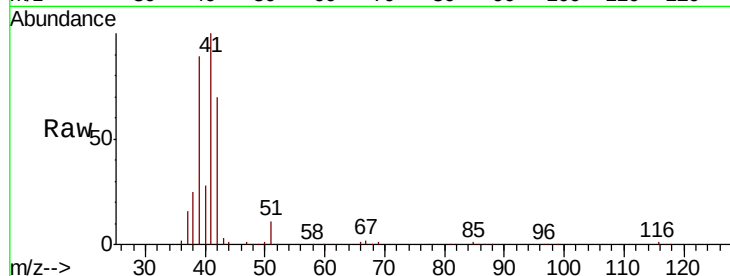
VSTDCCC010EC

Tgt Ion: 41 Resp: 414871

Ion Ratio Lower Upper

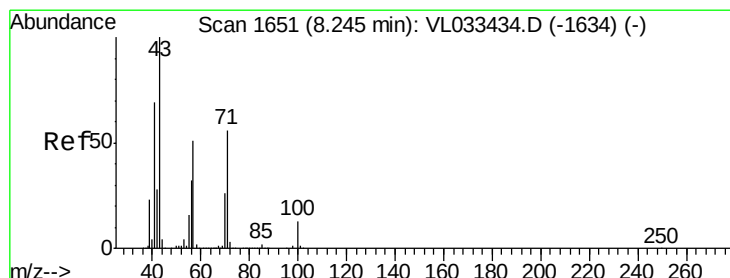
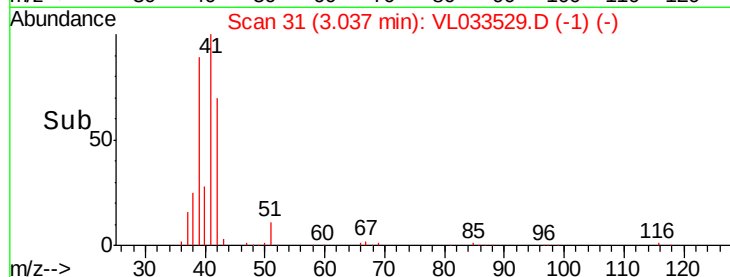
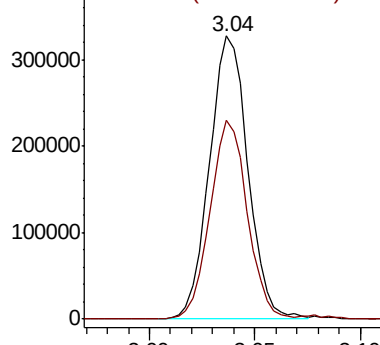
41 100

42 69.2 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.099 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033529.D

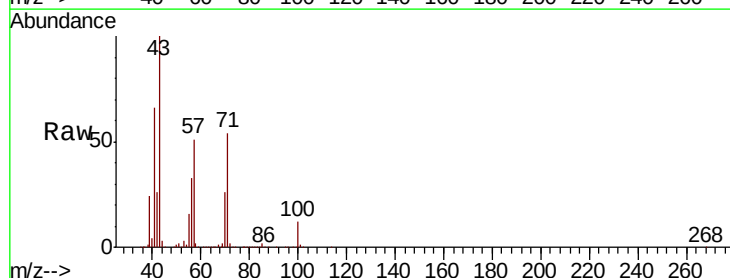
Acq: 30 Mar 2019 8:53

Tgt Ion: 43 Resp: 1103678

Ion Ratio Lower Upper

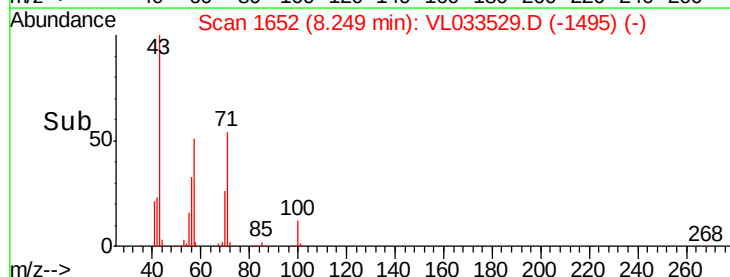
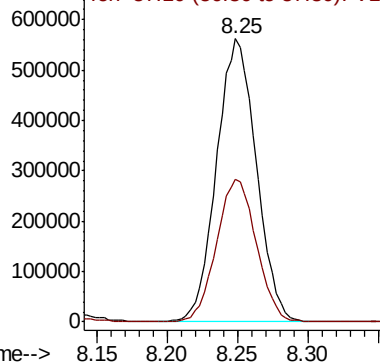
43 100

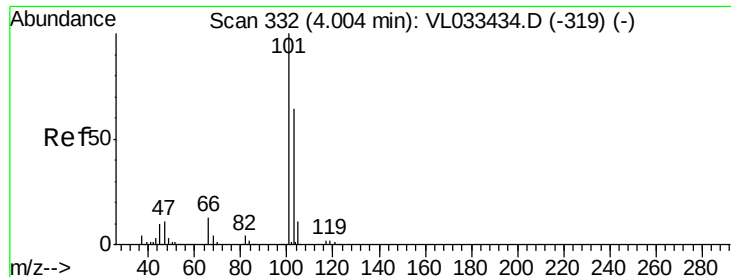
57 50.6 40.6 60.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

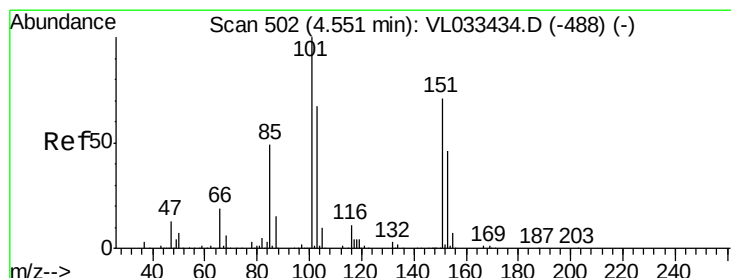
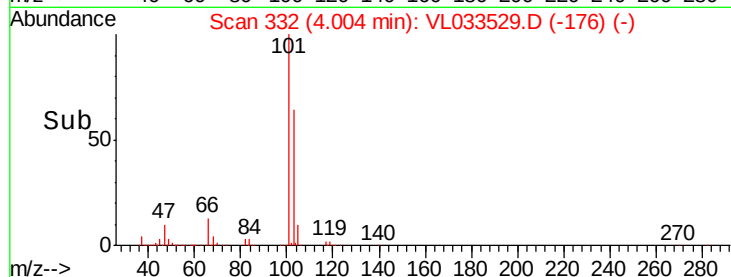
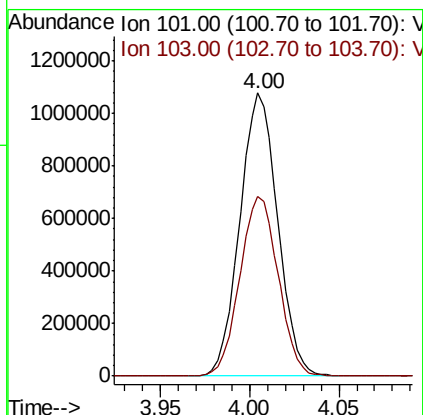
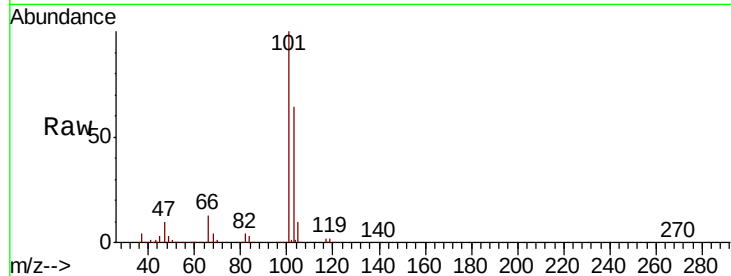




#11
 Trichlorofluoromethane
 Concen: 11.569 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

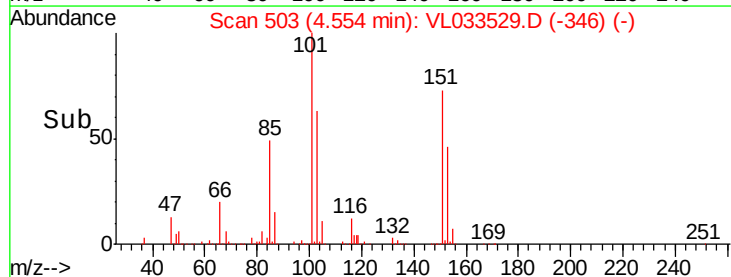
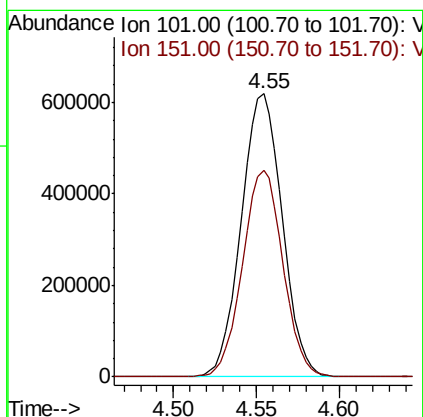
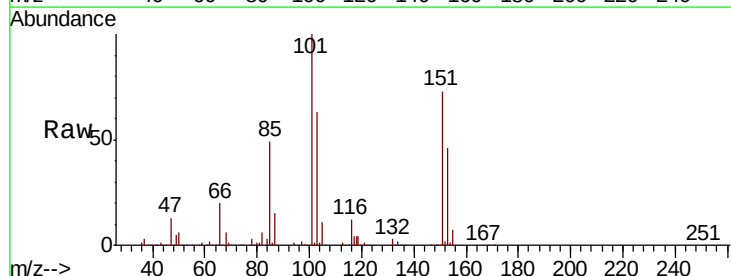
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

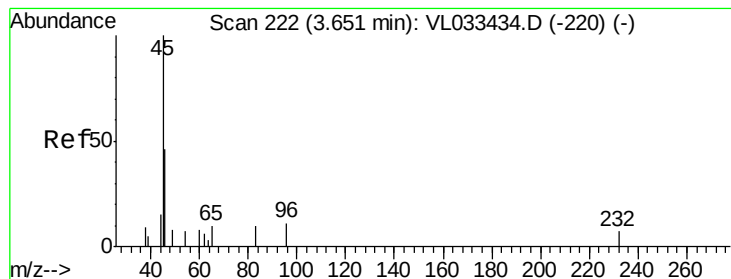
Tgt Ion:101 Resp: 1599985
 Ion Ratio Lower Upper
 101 100
 103 63.6 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.491 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion:101 Resp: 1067452
 Ion Ratio Lower Upper
 101 100
 151 72.0 57.7 86.5





#13

Ethanol

Concen: 11.127 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

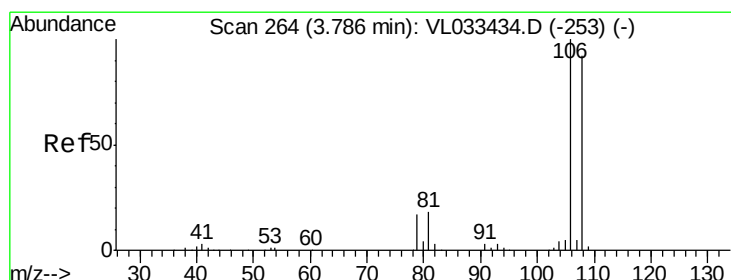
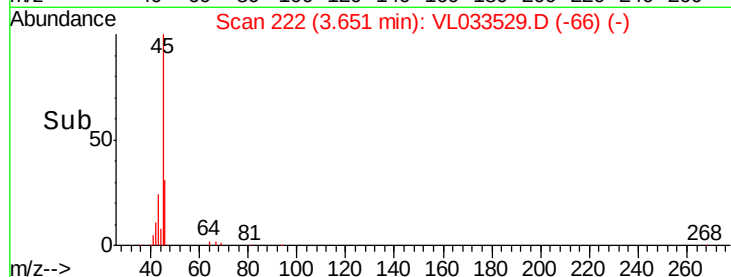
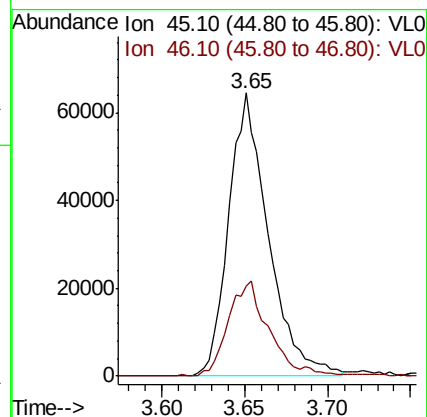
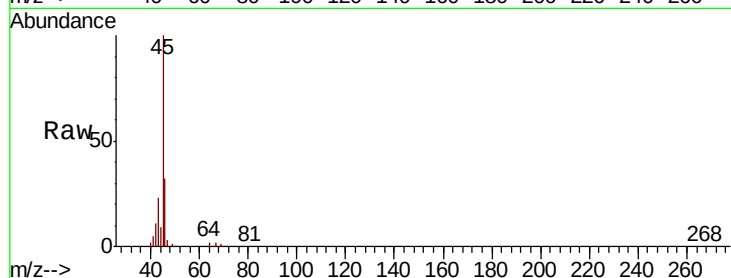
VSTDCCC010EC

Tgt Ion: 45 Resp: 107109

Ion Ratio Lower Upper

45 100

46 35.0 25.4 101.8



#14

Bromoethene

Concen: 11.557 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

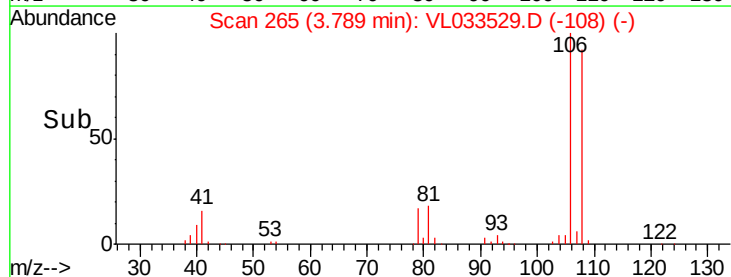
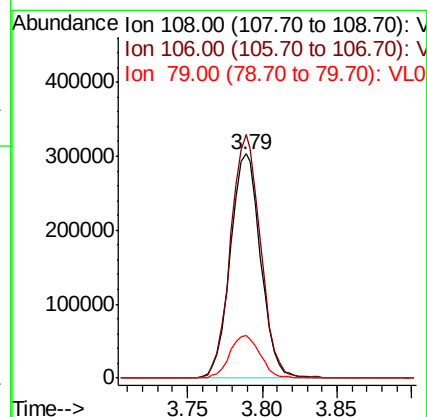
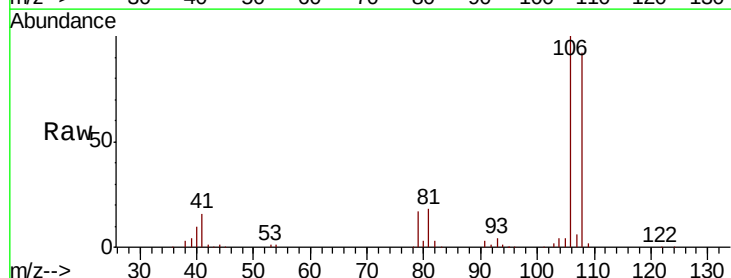
Tgt Ion: 108 Resp: 428161

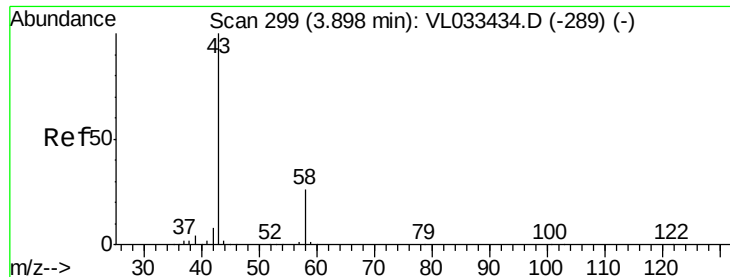
Ion Ratio Lower Upper

108 100

106 107.2 86.4 129.6

79 19.2 15.8 23.8





#15

Acetone

Concen: 10.806 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

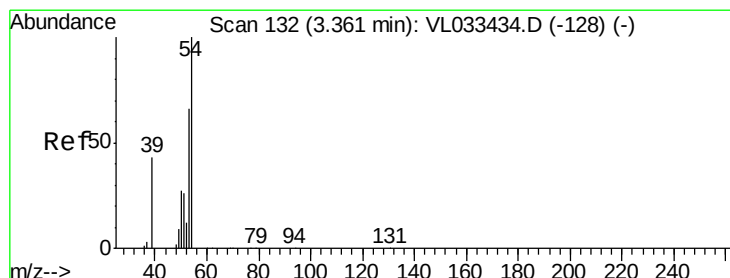
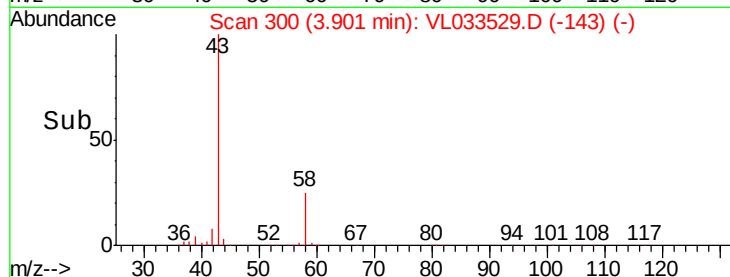
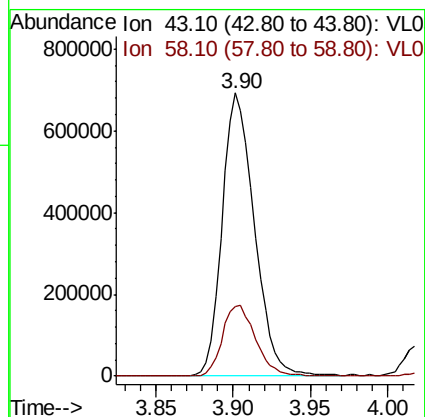
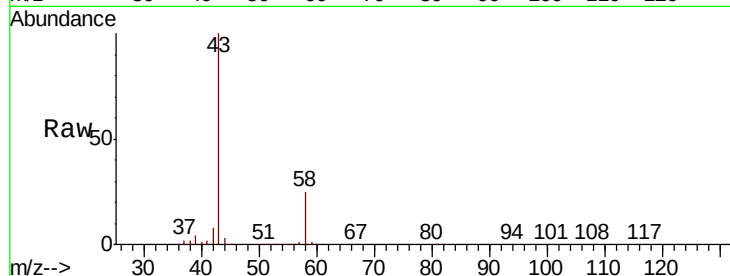
VSTDCCC010EC

Tgt Ion: 43 Resp: 999683

Ion Ratio Lower Upper

43 100

58 25.8 20.5 30.7



#16

1,3-Butadiene

Concen: 12.859 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033529.D

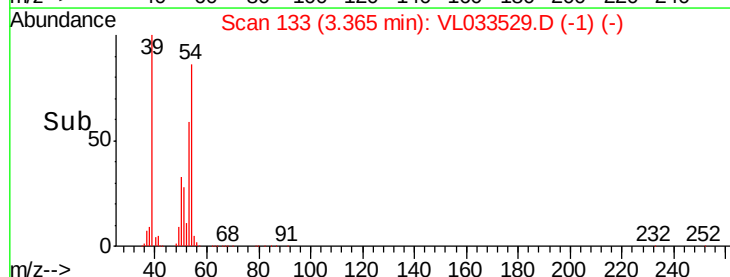
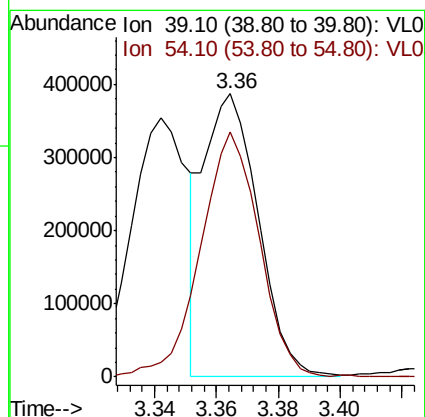
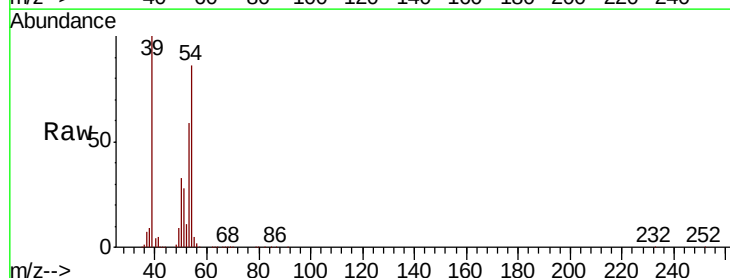
Acq: 30 Mar 2019 8:53

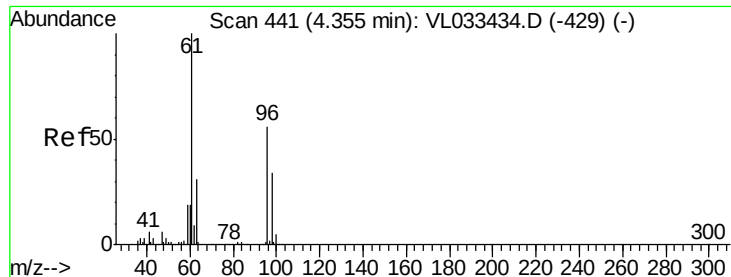
Tgt Ion: 39 Resp: 471876

Ion Ratio Lower Upper

39 100

54 94.3 69.4 104.2





#17

tert-Butyl alcohol

Concen: 10.173 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

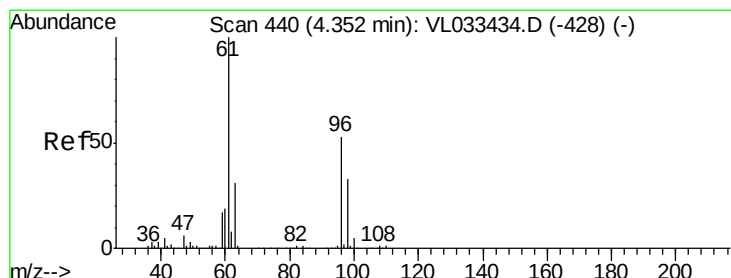
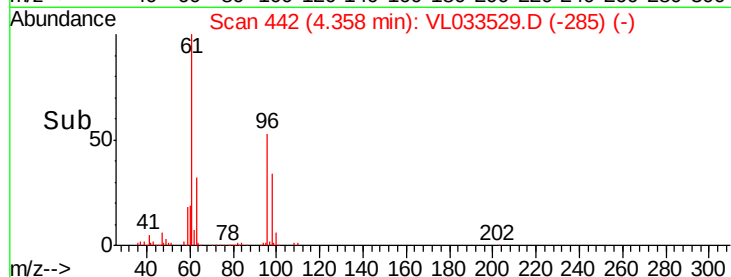
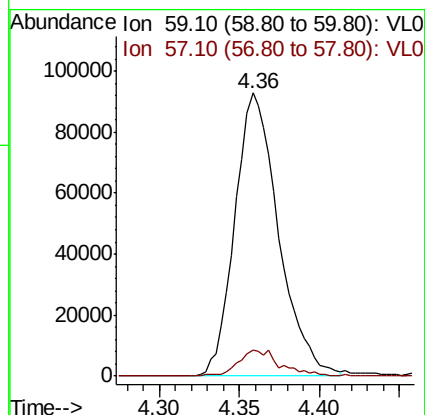
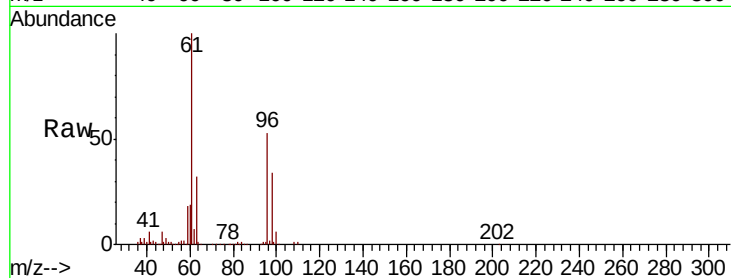
VSTDCCC010EC

Tgt Ion: 59 Resp: 173048

Ion Ratio Lower Upper

59 100

57 8.9 7.8 11.8



#18

1,1-Dichloroethene

Concen: 11.729 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

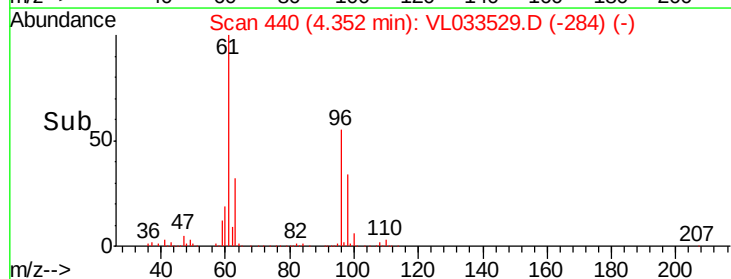
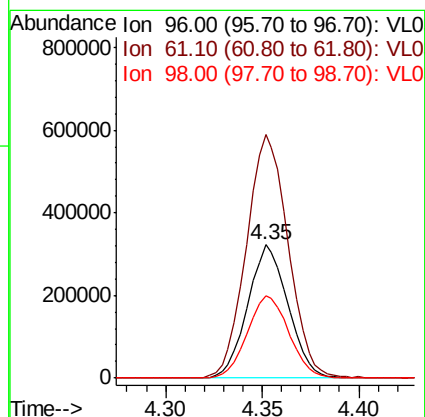
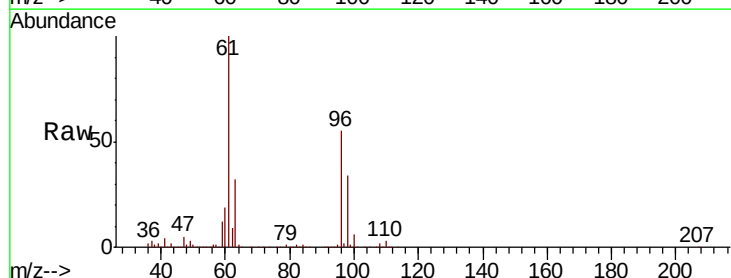
Tgt Ion: 96 Resp: 468009

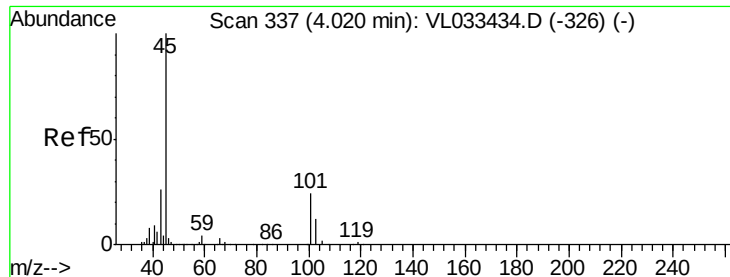
Ion Ratio Lower Upper

96 100

61 182.4 149.8 224.6

98 61.9 48.7 73.1





#19

Isopropyl Alcohol

Concen: 10.400 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

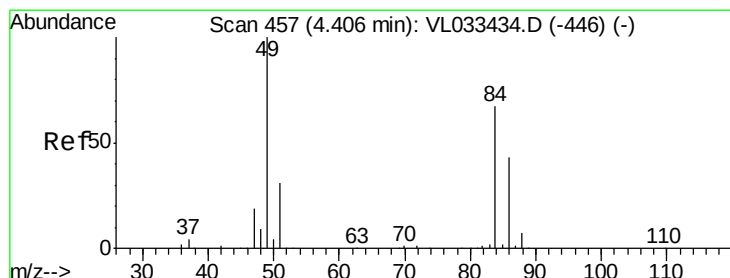
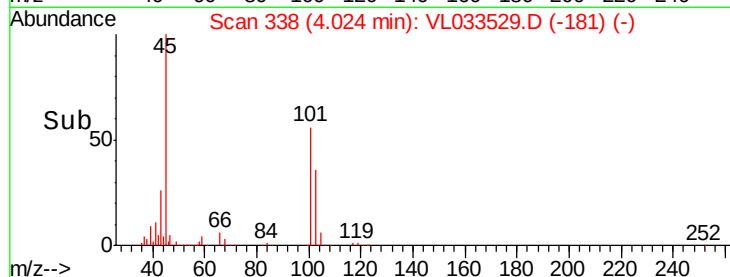
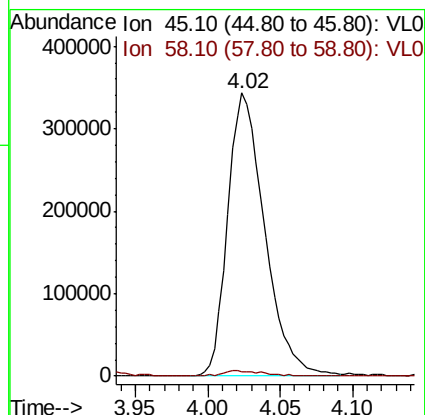
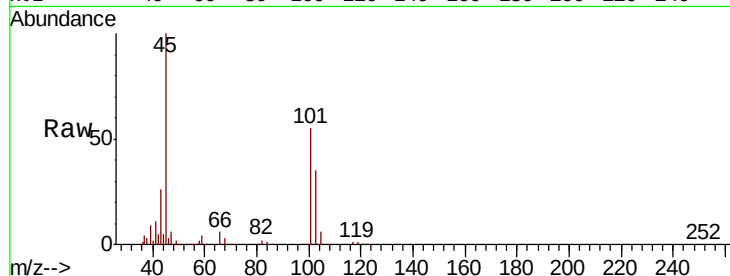
VSTDCCC010EC

Tgt Ion: 45 Resp: 608554

Ion Ratio Lower Upper

45 100

58 2.5 1.4 2.2#



#20

Methylene Chloride

Concen: 10.481 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion: 84 Resp: 411601

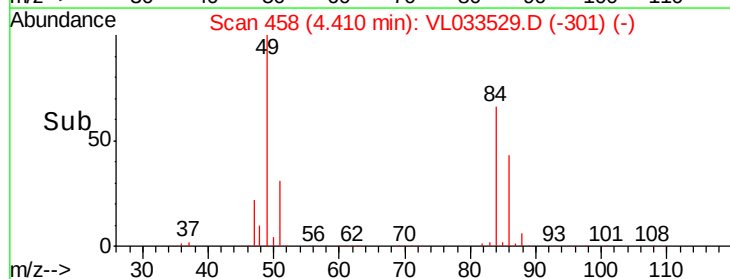
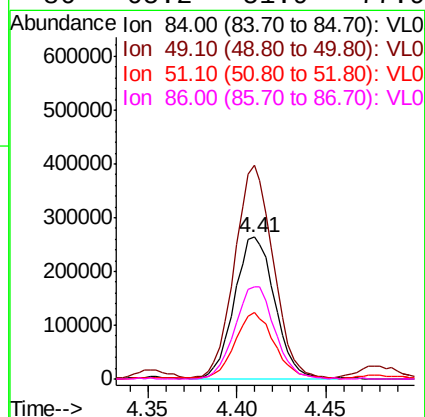
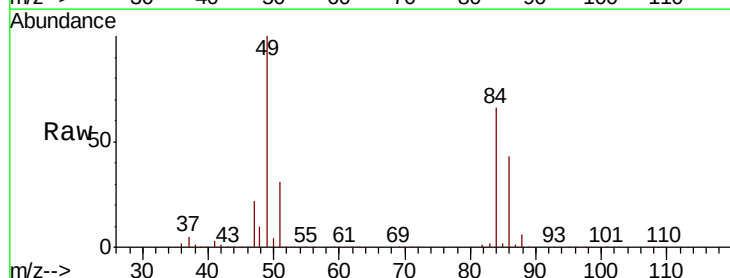
Ion Ratio Lower Upper

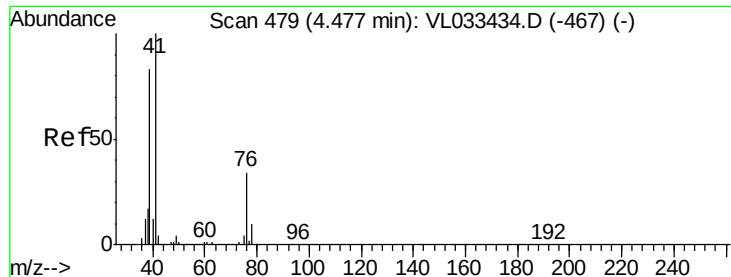
84 100

49 150.5 120.0 180.0

51 46.4 36.7 55.1

86 65.2 51.9 77.9

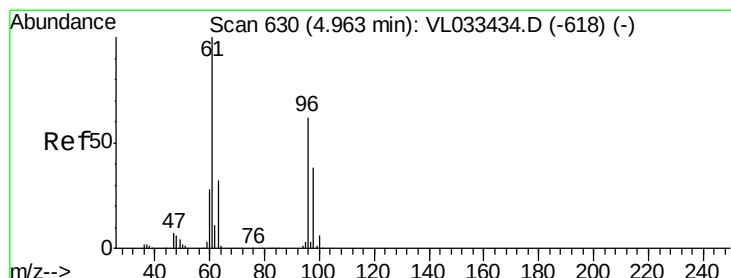
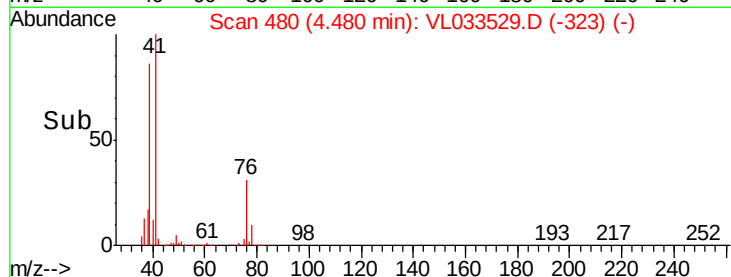
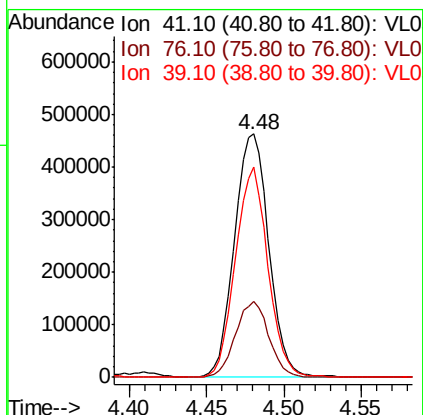
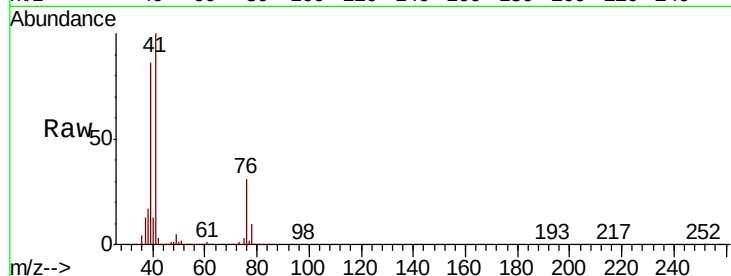




#21
 Allyl Chloride
 Concen: 12.151 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

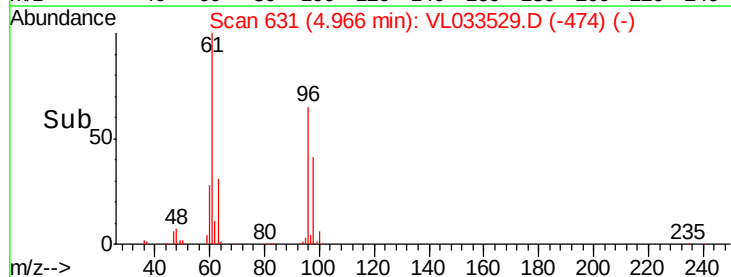
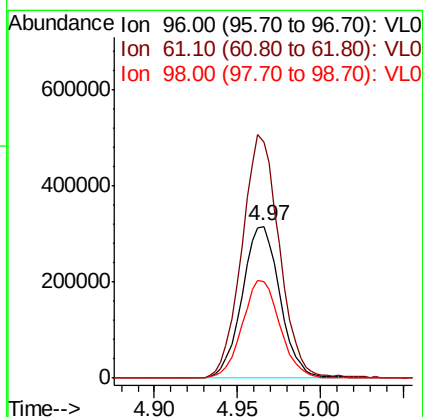
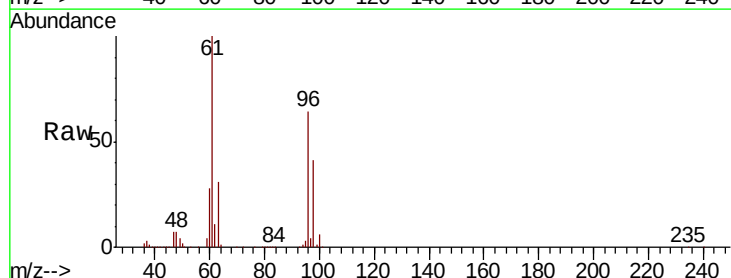
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

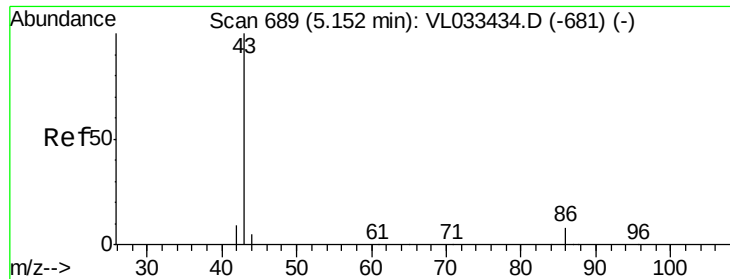
Tgt Ion: 41 Resp: 710652
 Ion Ratio Lower Upper
 41 100
 76 30.5 25.4 38.2
 39 81.8 65.3 97.9



#22
 trans-1,2-Dichloroethene
 Concen: 12.049 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 96 Resp: 501575
 Ion Ratio Lower Upper
 96 100
 61 155.4 128.9 193.3
 98 63.9 49.5 74.3





#23

Vinyl Acetate

Concen: 11.969 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1576119

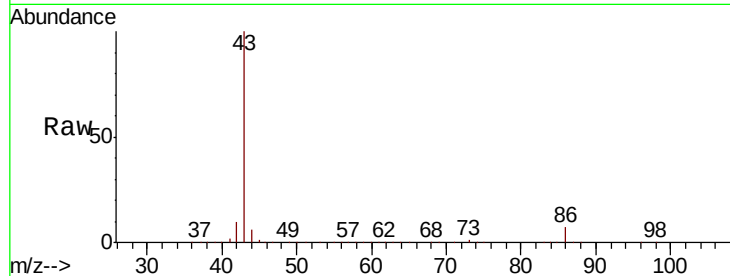
Ion Ratio Lower Upper

43 100

86 7.5 5.6 8.4

42 9.8 8.0 12.0

44 5.5 3.9 5.9

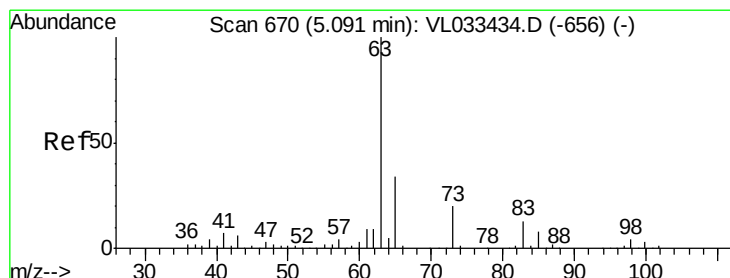
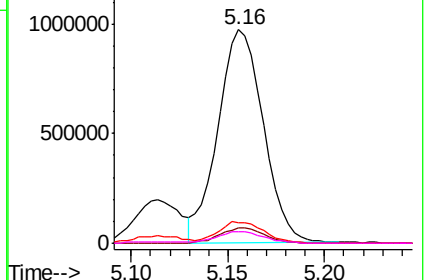
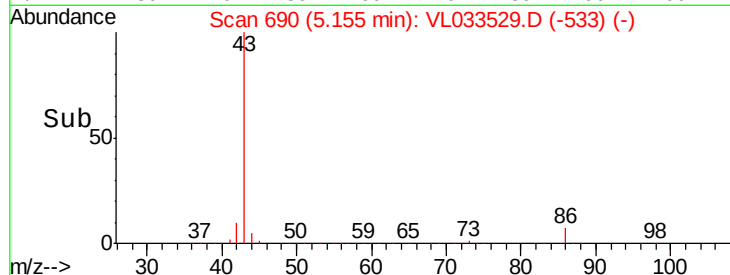


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 11.240 ppbv

RT: 5.09 min Scan# 670

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

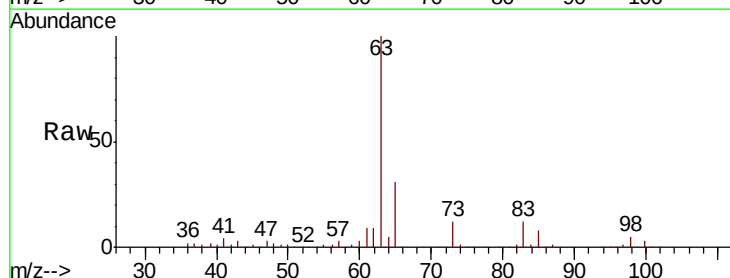
Tgt Ion: 63 Resp: 1124329

Ion Ratio Lower Upper

63 100

98 4.8 2.2 6.6

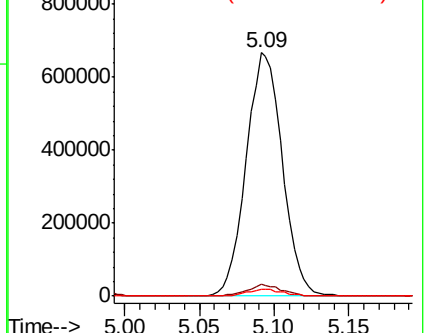
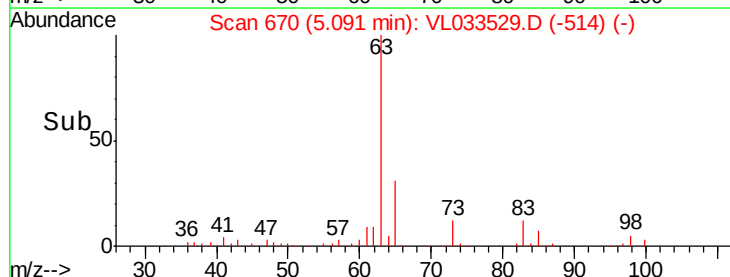
100 2.9 1.5 4.4

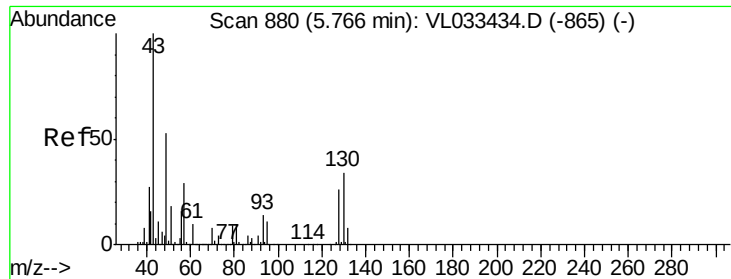


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



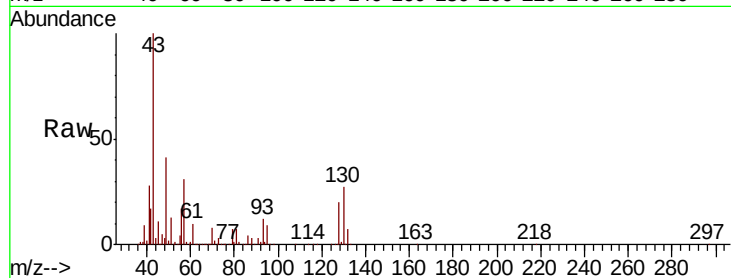


#25
Ethyl Acetate
Concen: 11.387 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 1954630

Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.3	7.3	10.9
70	7.0	5.6	8.4



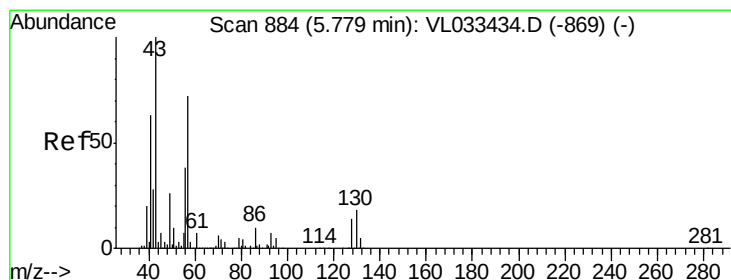
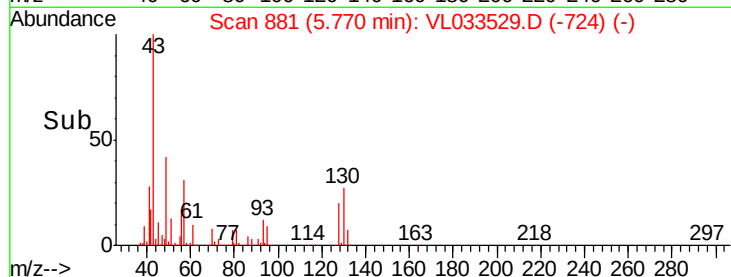
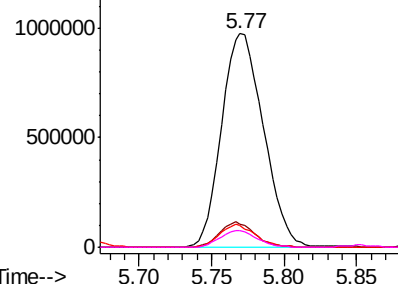
Abundance

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

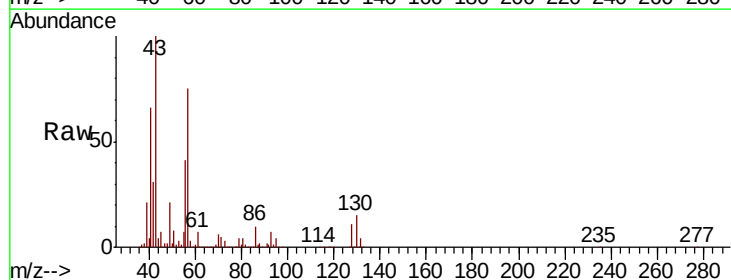
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 11.354 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 57 Resp: 866510

Ion	Ratio	Lower	Upper
57	100		
41	91.0	70.7	106.1
43	227.4	182.6	274.0
56	54.0	42.0	63.0



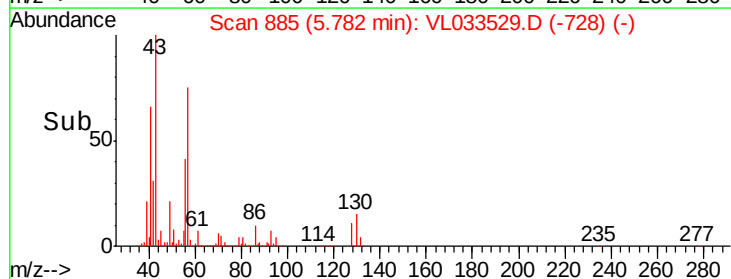
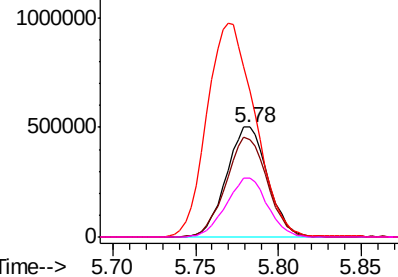
Abundance

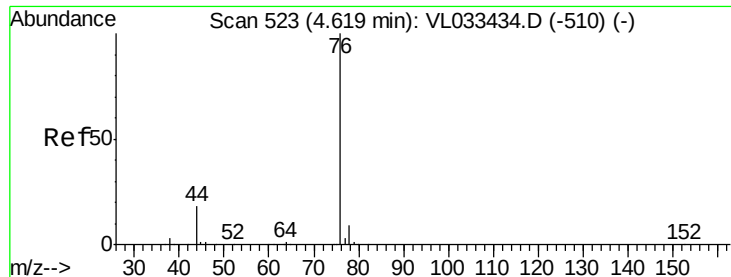
Ion 57.10 (56.80 to 57.80): VL0

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: 12.764 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

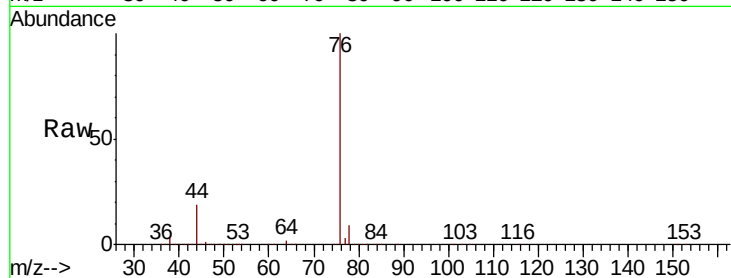
Tgt Ion: 76 Resp: 1158396

Ion Ratio Lower Upper

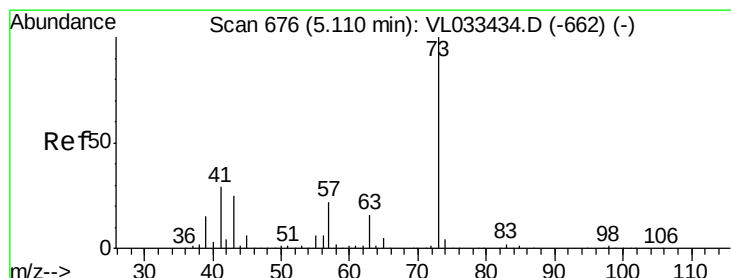
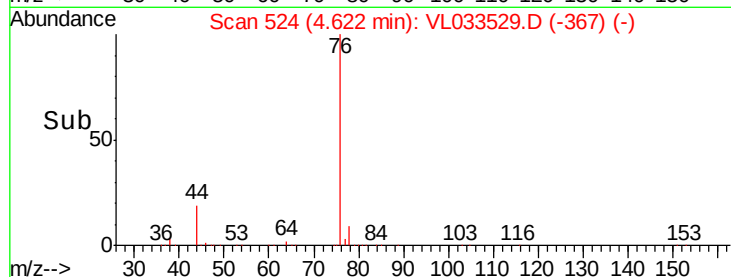
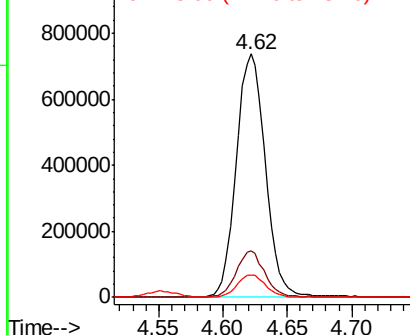
76 100

44 18.3 14.8 22.2

78 9.0 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: 11.930 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033529.D

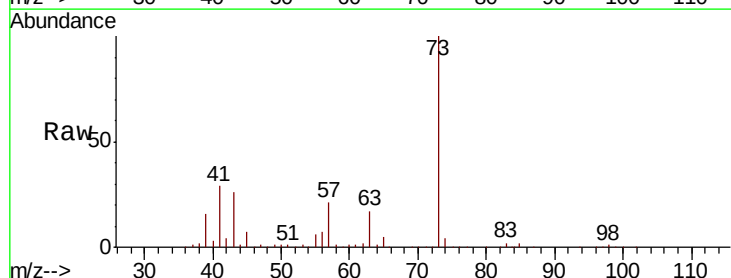
Acq: 30 Mar 2019 8:53

Tgt Ion: 73 Resp: 1311395

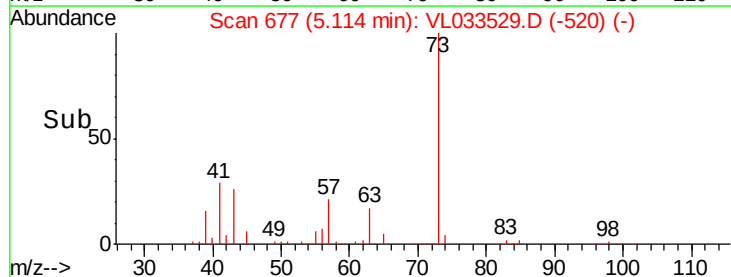
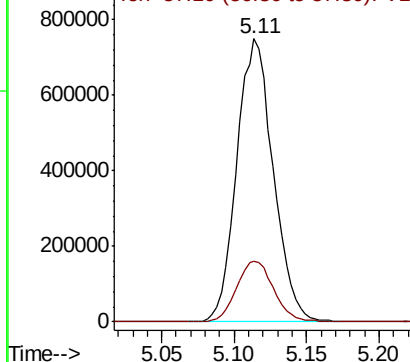
Ion Ratio Lower Upper

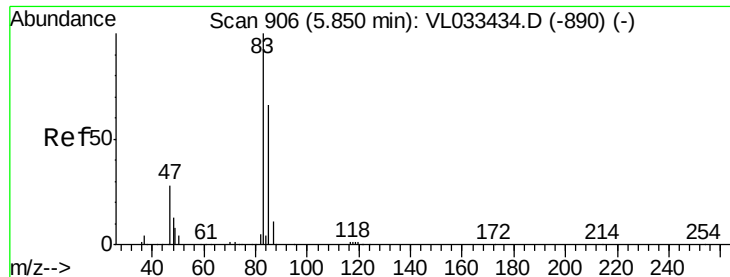
73 100

57 22.0 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

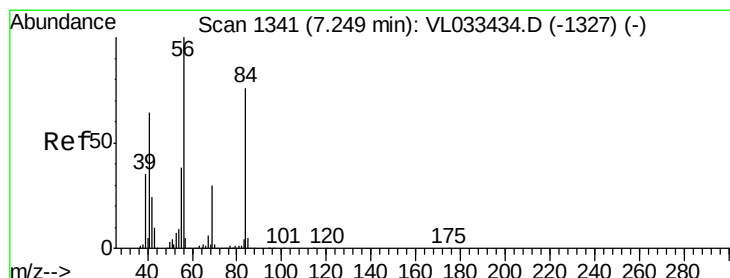
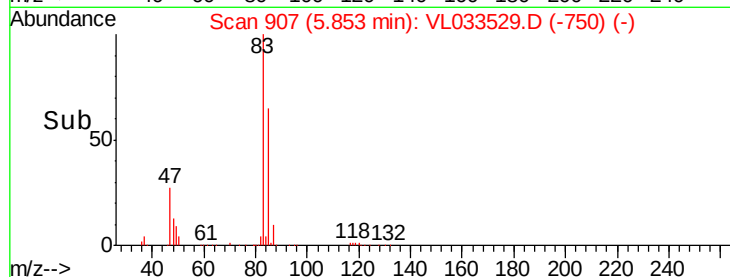
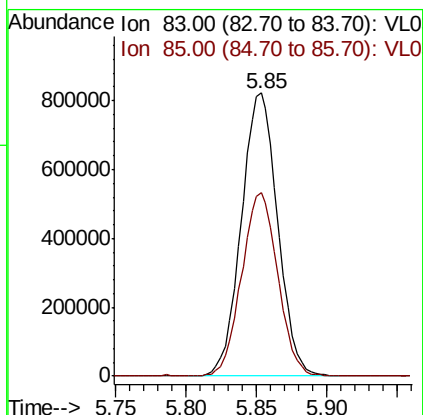
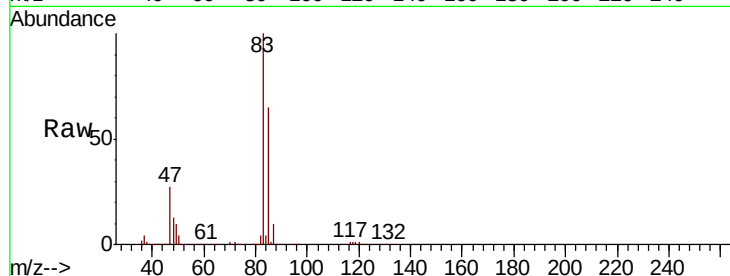




#29
Chloroform
Concen: 11.334 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

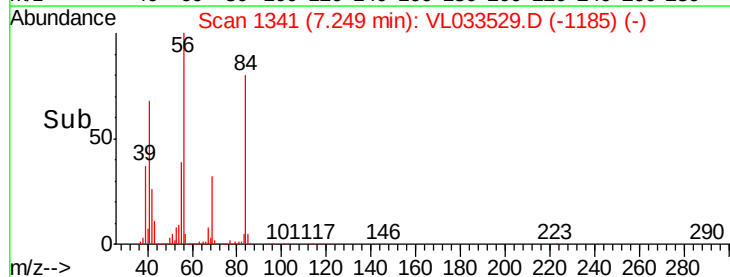
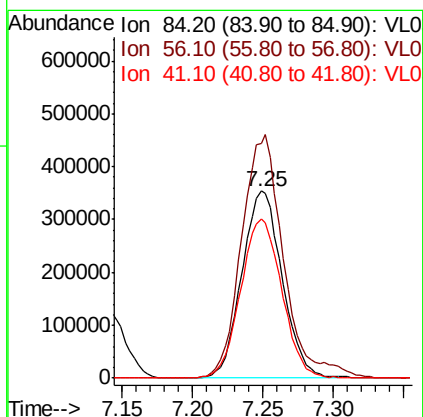
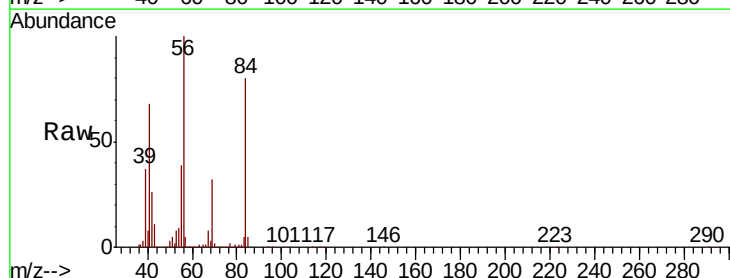
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

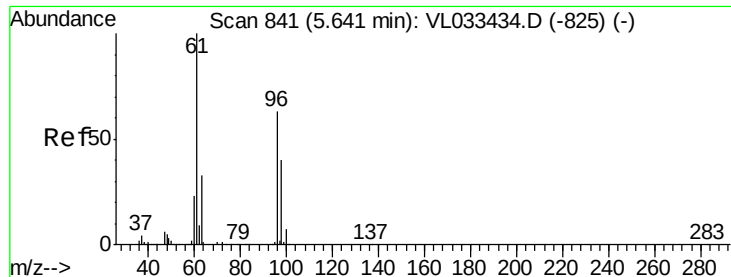
Tgt Ion: 83 Resp: 1482842
Ion Ratio Lower Upper
83 100
85 64.6 52.6 79.0



#30
Cyclohexane
Concen: 11.755 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 84 Resp: 709739
Ion Ratio Lower Upper
84 100
56 135.7 109.7 164.5
41 86.6 68.2 102.2



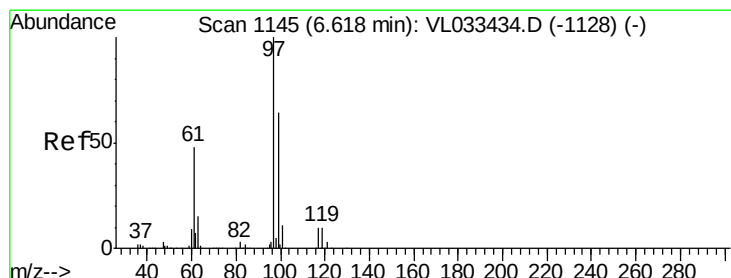
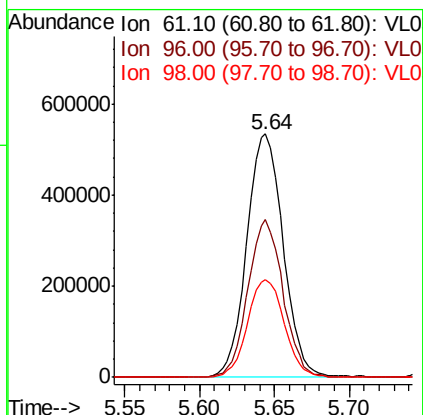
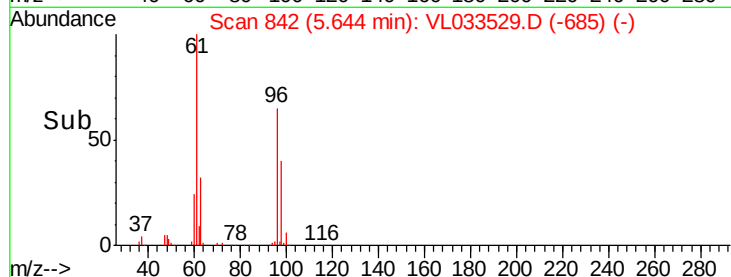
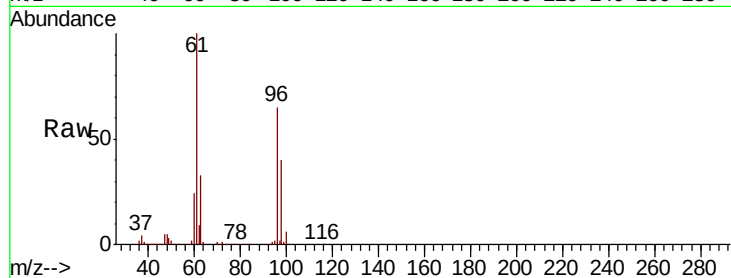


#31

cis-1,2-Dichloroethene
 Concen: 11.938 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

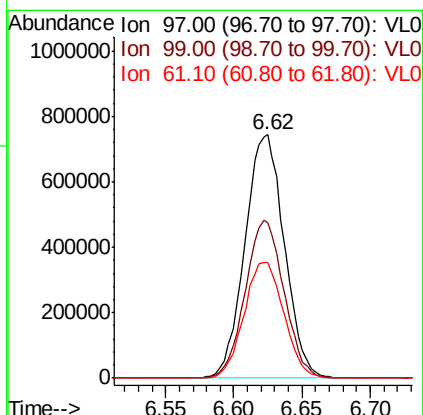
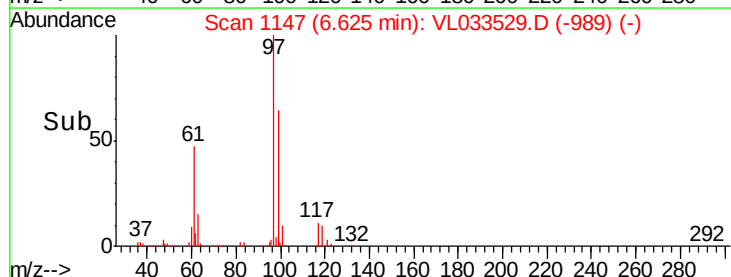
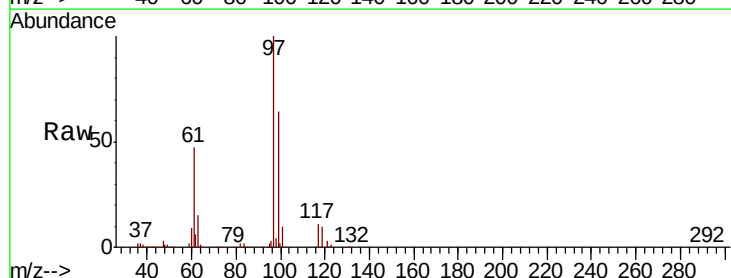
Tgt Ion	Ratio	Lower	Upper
61	100		
96	64.6	50.6	76.0
98	40.3	32.2	48.2

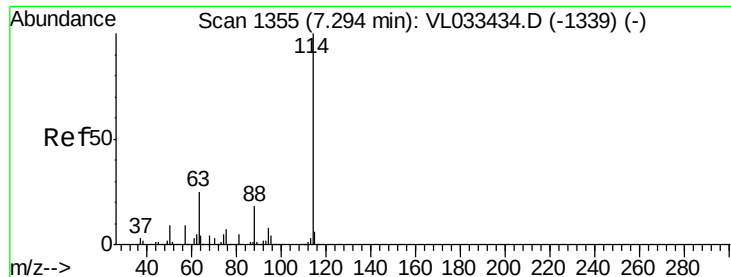


#32

1,1,1-Trichloroethane
 Concen: 11.966 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. 0.01 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.5	77.3
61	48.2	38.8	58.2

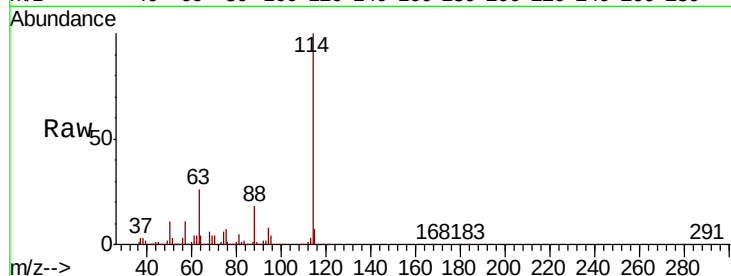




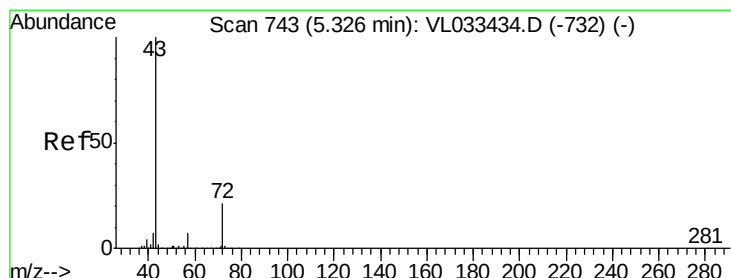
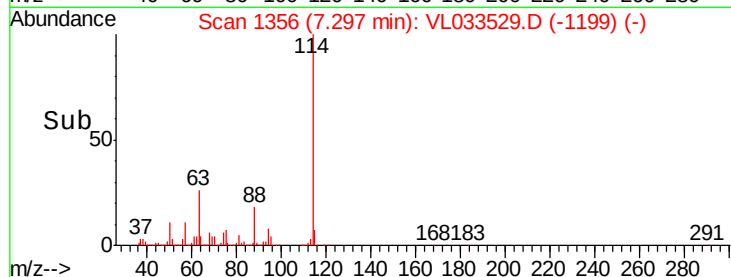
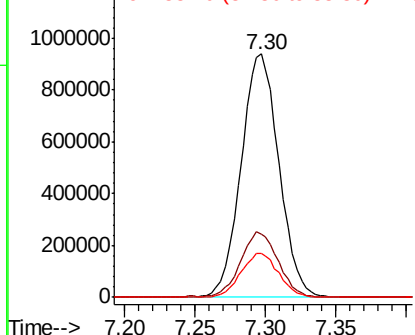
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:114 Resp: 1763144
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.5 32.3
 88 18.1 14.5 21.7

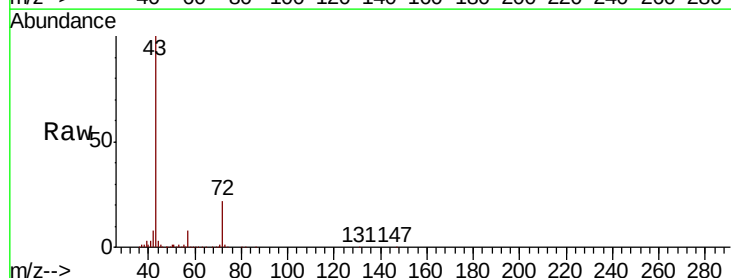


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

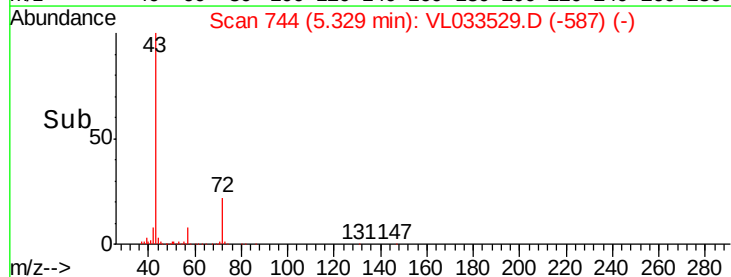
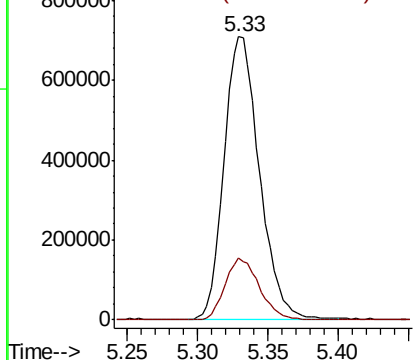


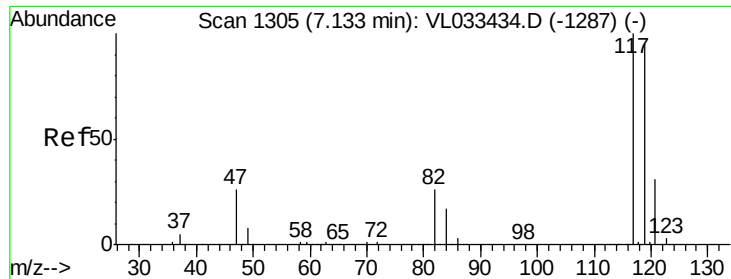
#34
 2-Butanone
 Concen: 11.663 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 43 Resp: 1235483
 Ion Ratio Lower Upper
 43 100
 72 21.4 17.4 26.2



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





#35

Carbon Tetrachloride

Concen: 12.717 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

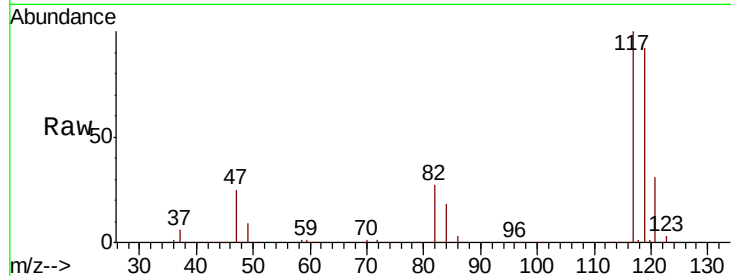
Tgt Ion:117 Resp: 1588108

Ion Ratio Lower Upper

117 100

119 91.9 75.8 113.8

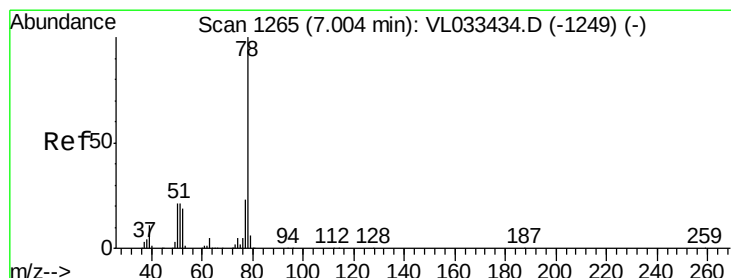
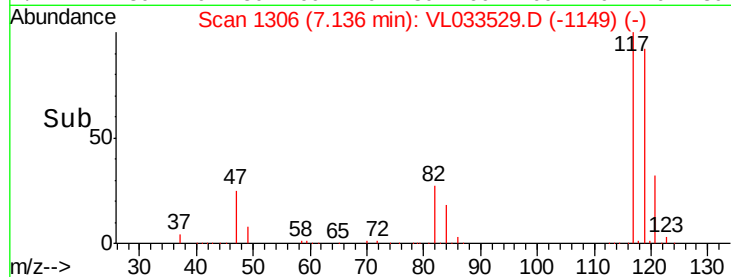
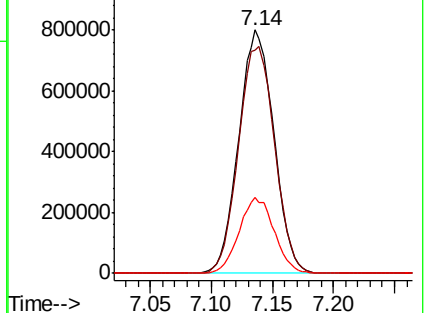
121 31.4 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.677 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

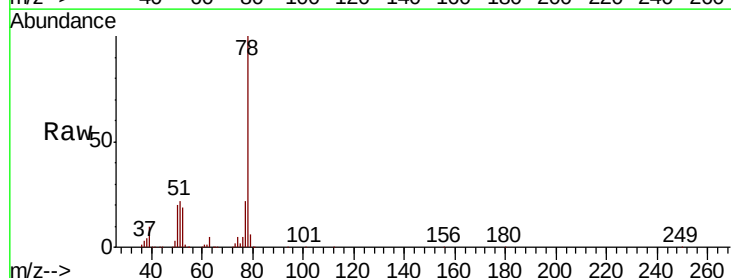
Tgt Ion: 78 Resp: 1727521

Ion Ratio Lower Upper

78 100

77 22.4 18.1 27.1

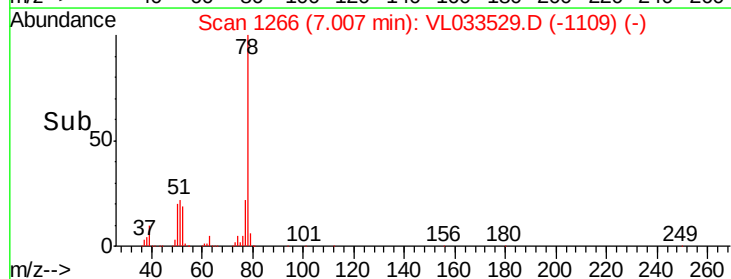
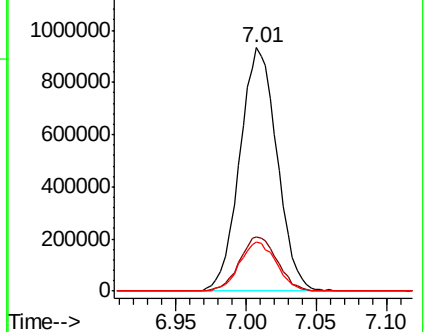
50 19.9 16.7 25.1

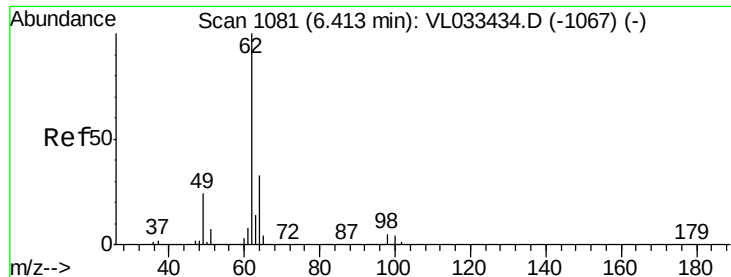


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

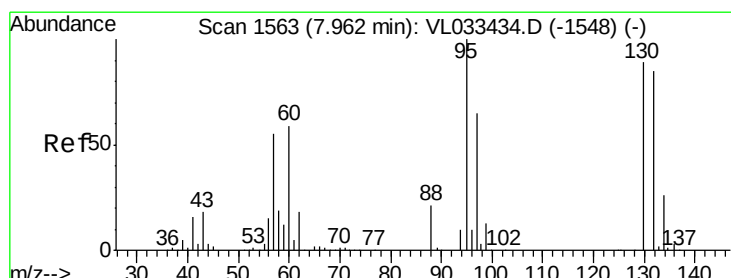
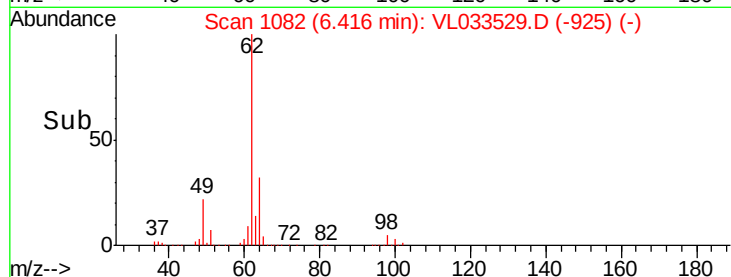
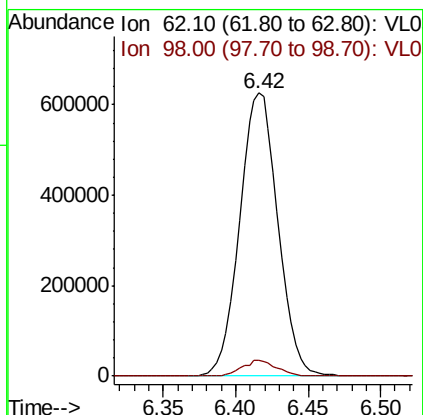
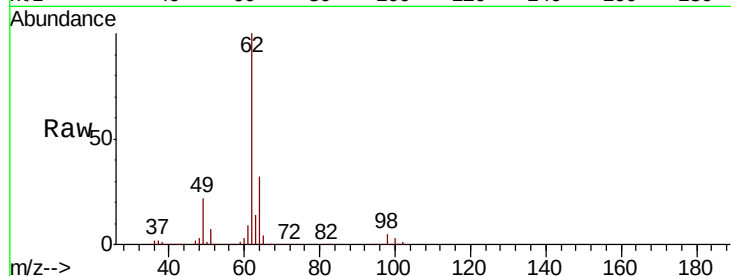




#37
 1,2-Dichloroethane
 Concen: 11.571 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

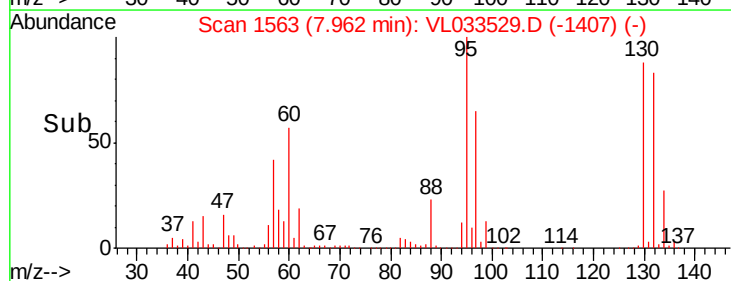
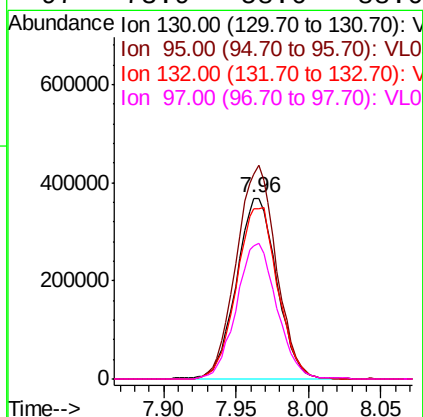
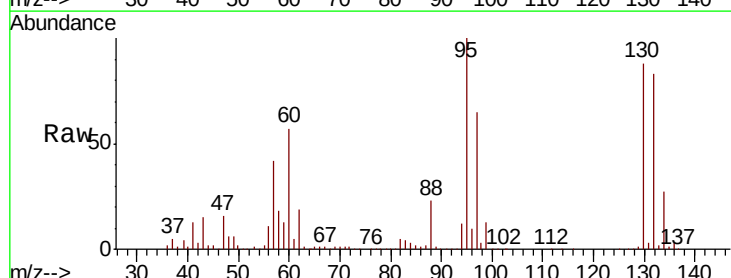
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

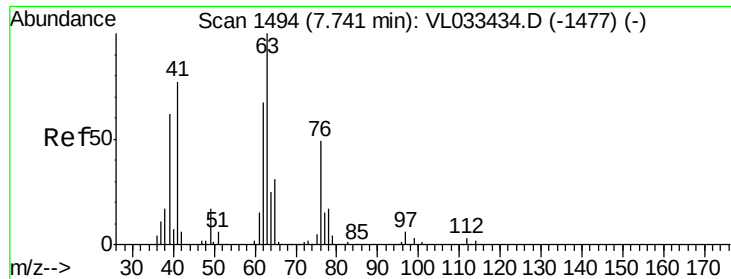
Tgt Ion: 62 Resp: 1147371
 Ion Ratio Lower Upper
 62 100
 98 5.1 4.4 6.6



#38
 Trichloroethene
 Concen: 12.708 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 130 Resp: 707520
 Ion Ratio Lower Upper
 130 100
 95 113.5 89.8 134.8
 132 94.8 76.6 115.0
 97 73.9 58.6 88.0





#39

1,2-Dichloropropane

Concen: 11.382 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

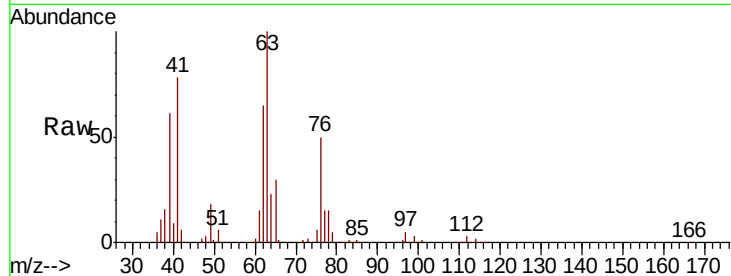
Tgt Ion: 63 Resp: 659614

Ion Ratio Lower Upper

63 100

41 77.8 61.2 91.8

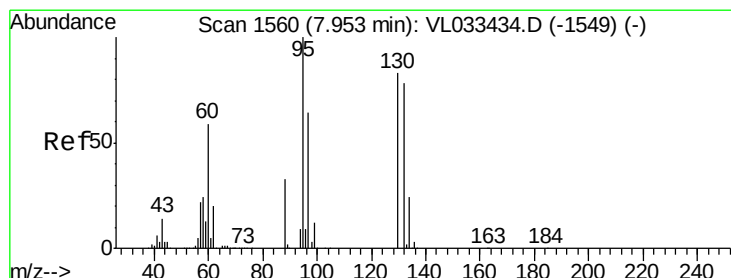
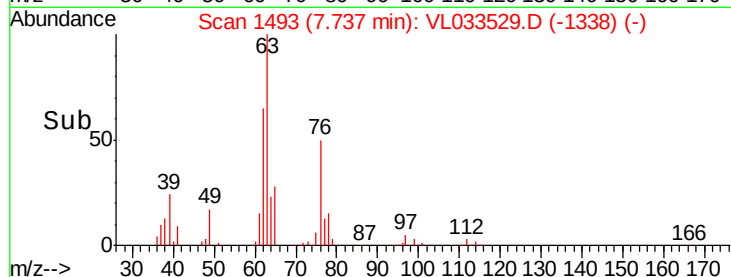
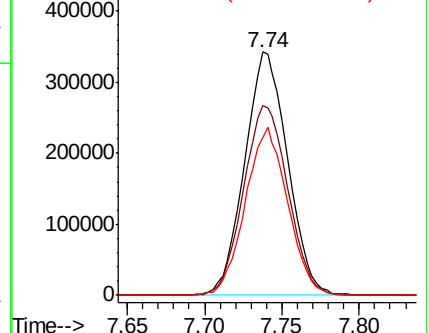
62 64.6 54.0 81.0



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: 11.098 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion: 88 Resp: 229400

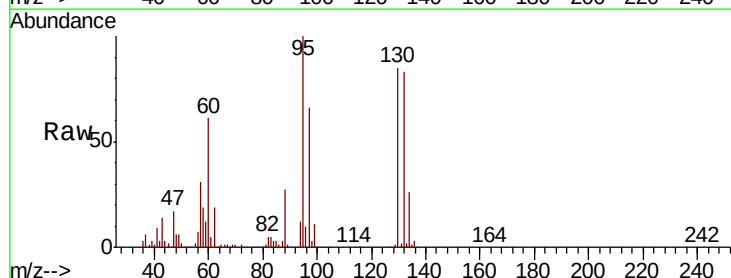
Ion Ratio Lower Upper

88 100

58 136.0 105.6 158.4

43 292.4 216.7 325.1

57 1298.5 975.0 1462.4

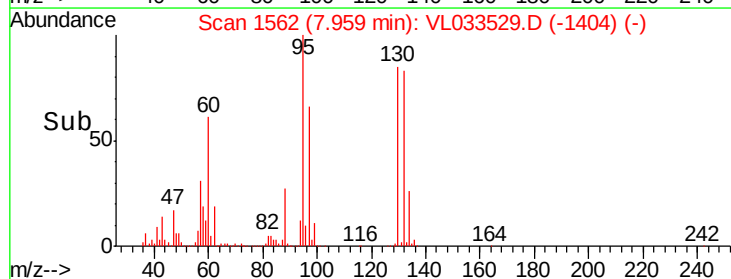
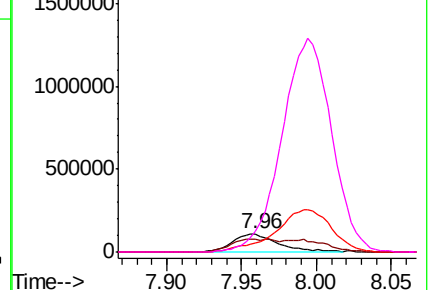


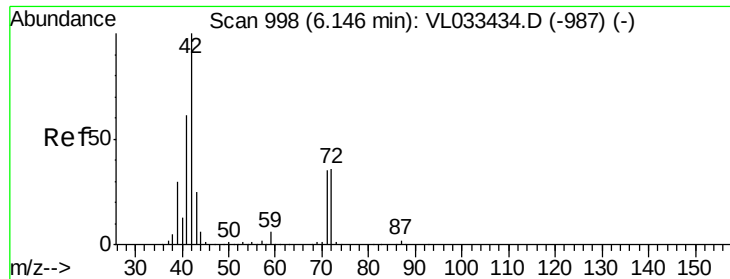
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

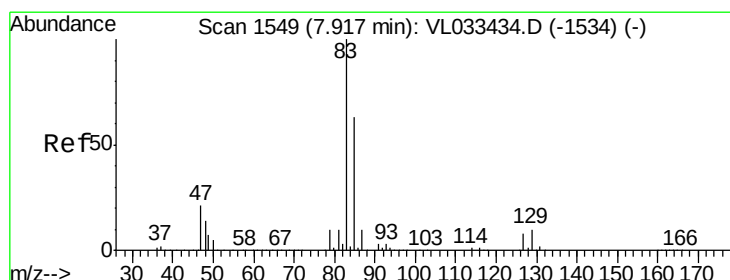
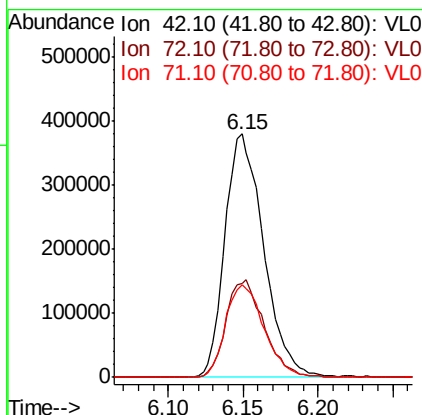
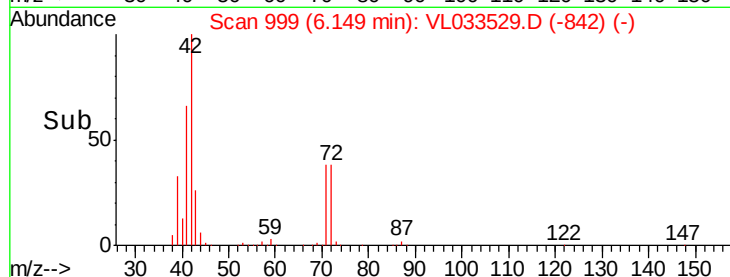
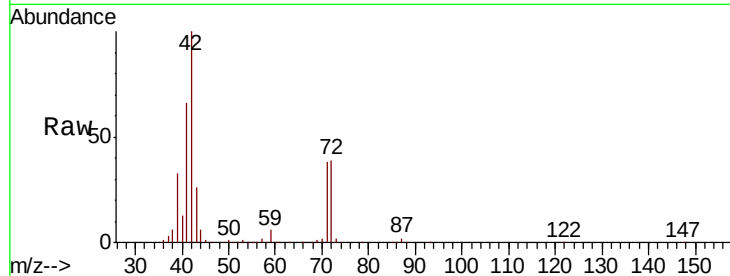




#41
Tetrahydrofuran
Concen: 11.736 ppbv
RT: 6.15 min Scan# 999
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

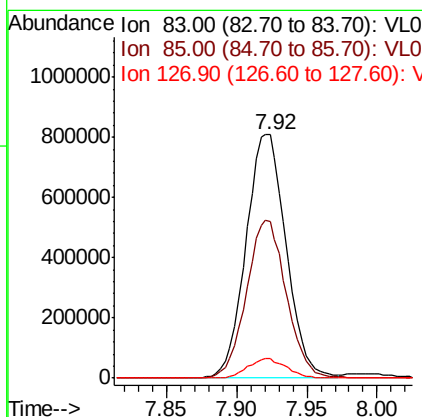
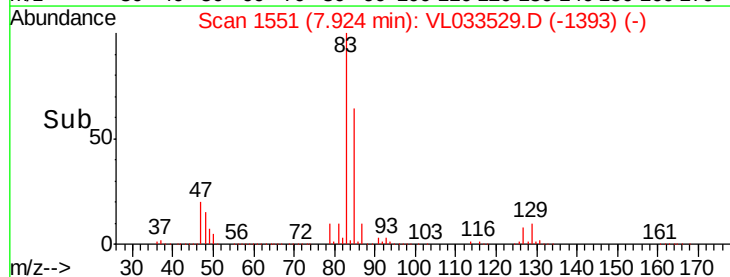
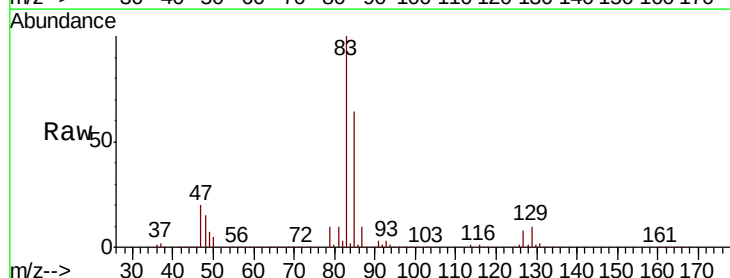
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

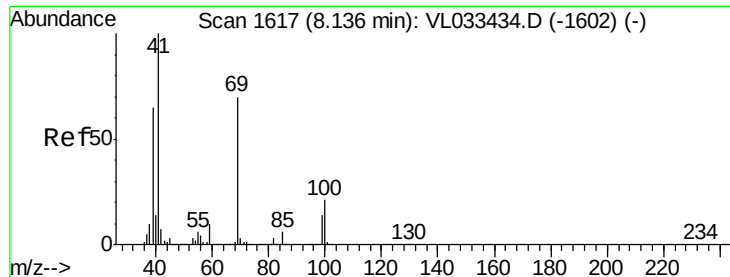
Tgt Ion: 42 Resp: 683791
Ion Ratio Lower Upper
42 100
72 39.6 30.2 45.2
71 38.1 29.4 44.2



#42
Bromodichloromethane
Concen: 11.929 ppbv
RT: 7.92 min Scan# 1551
Delta R.T. 0.01 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 83 Resp: 1611116
Ion Ratio Lower Upper
83 100
85 64.2 50.7 76.1
127 7.9 6.6 9.8

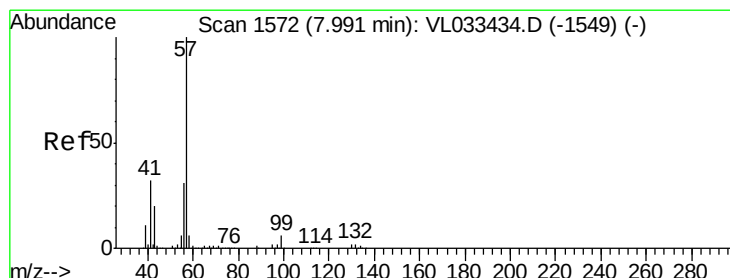
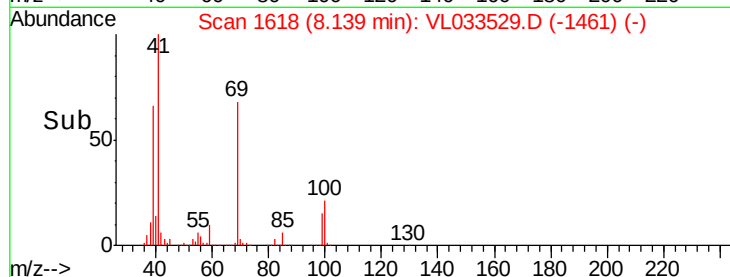
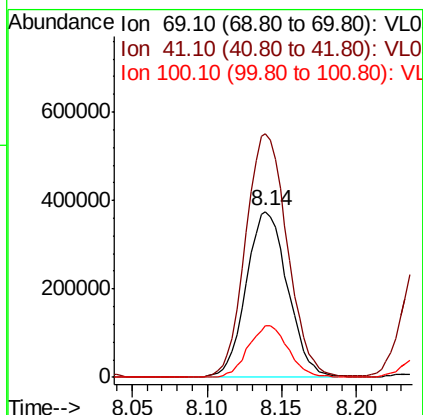
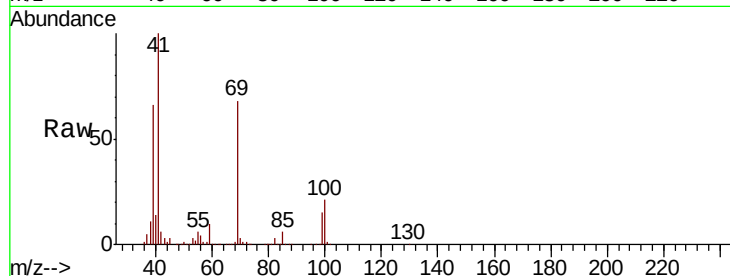




#43
Methyl Methacrylate
Concen: 12.055 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

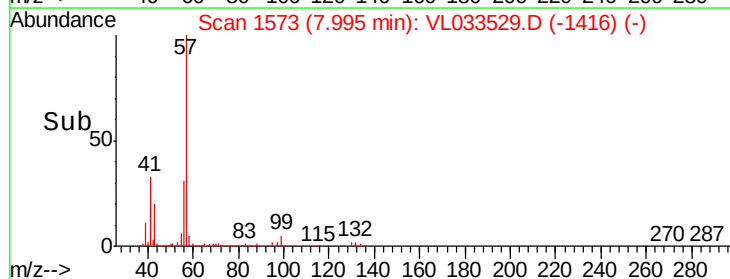
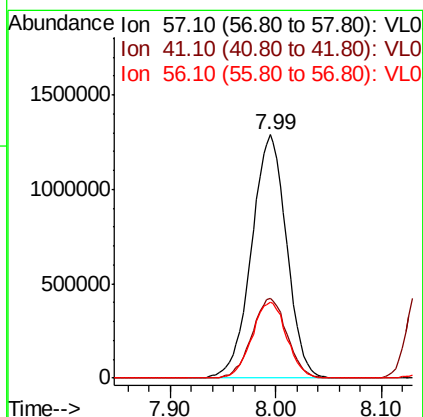
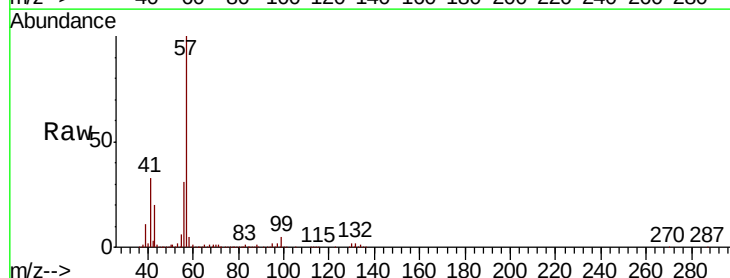
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

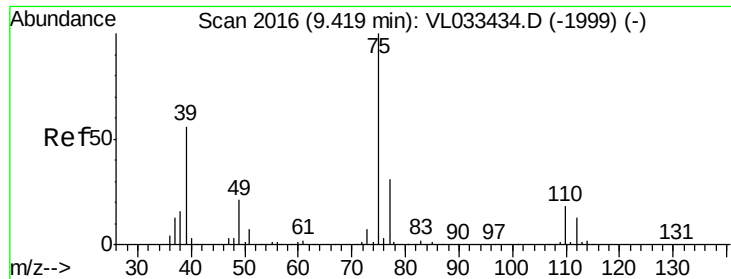
Tgt Ion: 69 Resp: 724147
Ion Ratio Lower Upper
69 100
41 148.2 116.6 174.8
100 30.1 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 11.510 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 57 Resp: 2975653
Ion Ratio Lower Upper
57 100
41 32.8 26.0 39.0
56 31.1 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 13.365 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

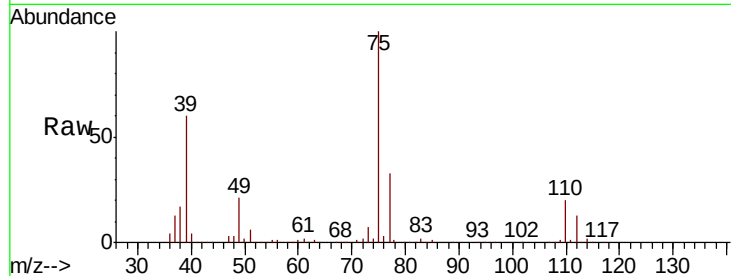
VSTDCCC010EC

Tgt Ion: 75 Resp: 985742

Ion Ratio Lower Upper

75 100

77 33.1 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

500000

400000

300000

200000

100000

0

9.35

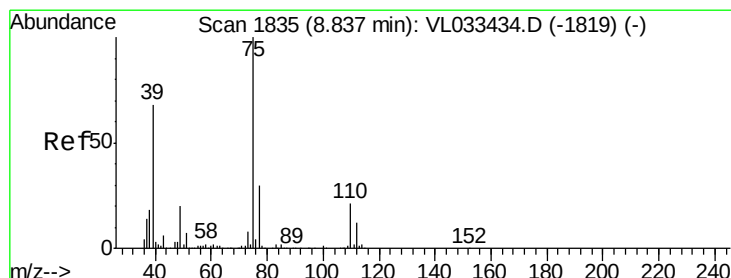
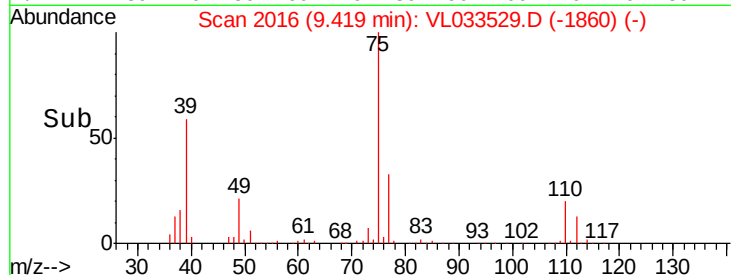
9.40

9.42

9.45

9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.808 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

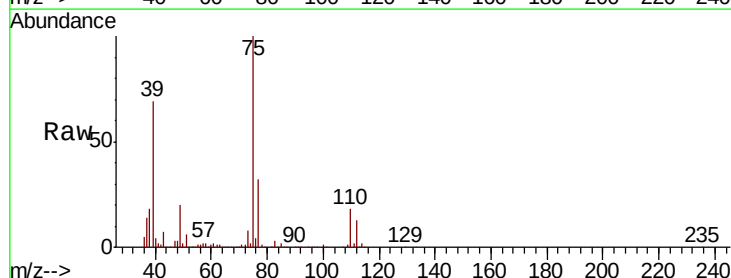
Tgt Ion: 75 Resp: 1103107

Ion Ratio Lower Upper

75 100

39 69.2 54.1 81.1

77 32.0 23.9 35.9



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

600000

400000

200000

0

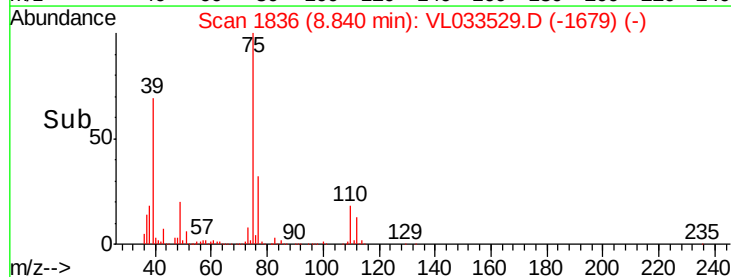
8.75

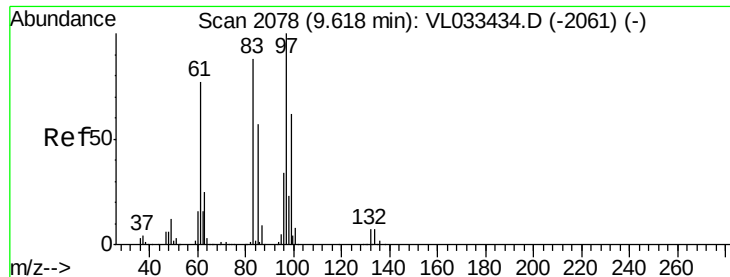
8.80

8.84

8.90

Time-->

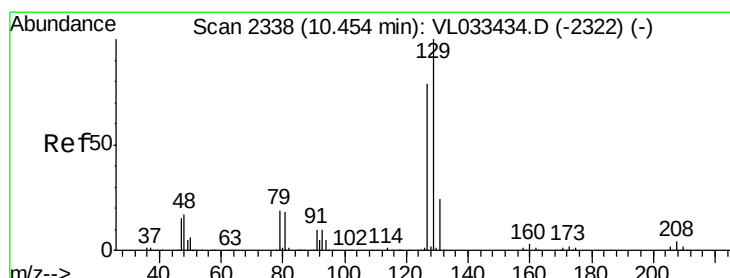
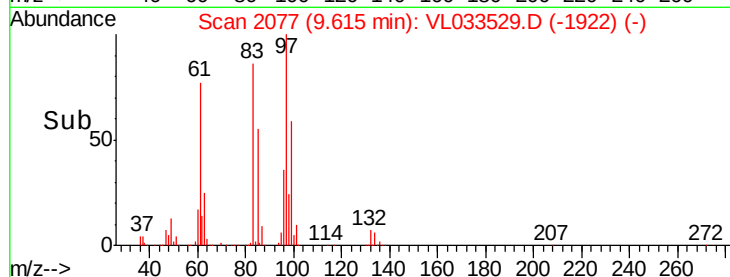
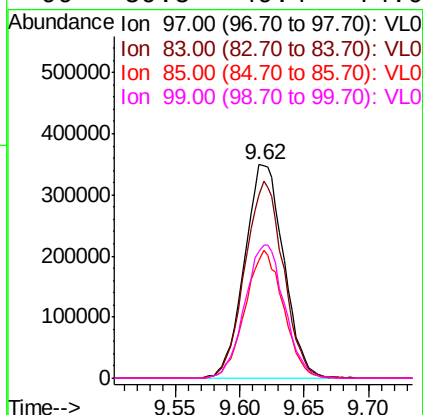
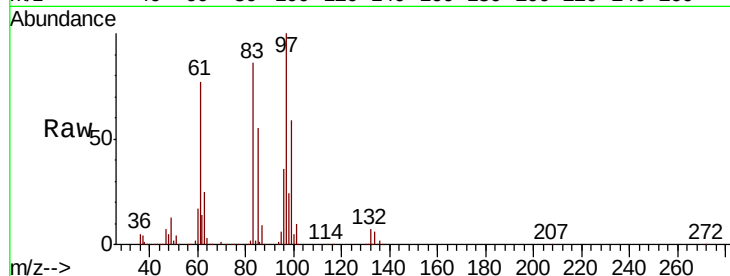




#47
 1,1,2-Trichloroethane
 Concen: 11.275 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

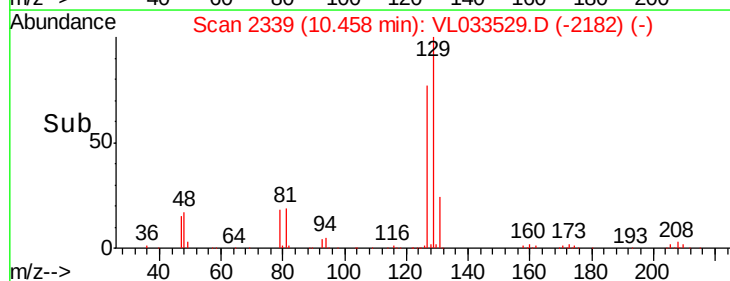
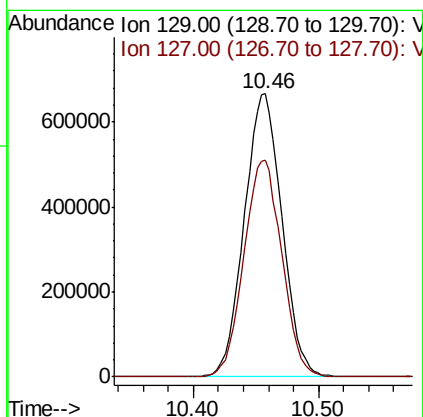
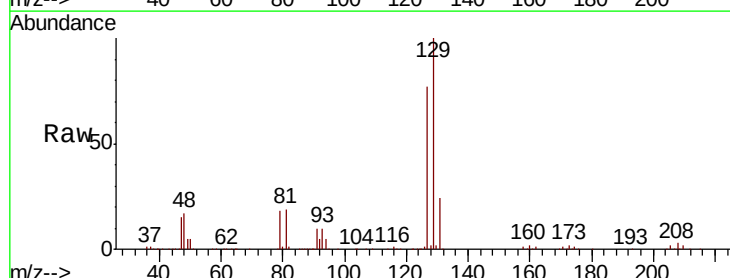
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

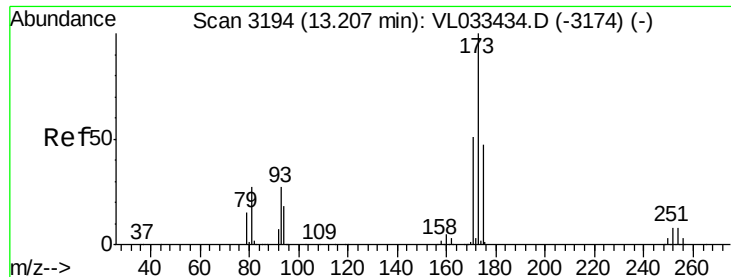
Tgt Ion:	97	Resp:	741983
Ion	Ratio	Lower	Upper
97	100		
83	85.8	70.5	105.7
85	55.3	45.6	68.4
99	59.5	49.4	74.0



#48
 Dibromochloromethane
 Concen: 12.571 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion:	129	Resp:	1395390
Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.2





#49

Bromoform

Concen: 12.190 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

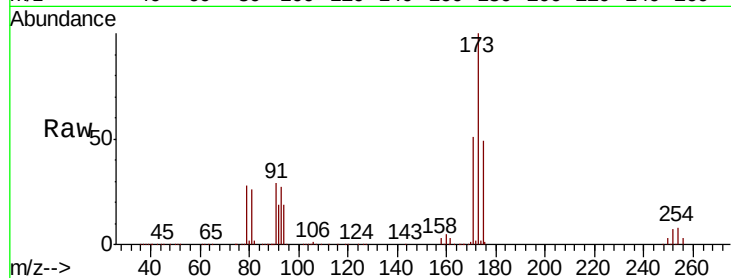
Tgt Ion:173 Resp: 1292643

Ion Ratio Lower Upper

173 100

175 48.7 39.3 58.9

171 51.6 41.2 61.8

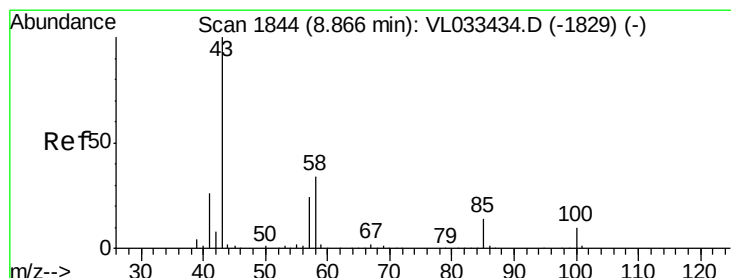
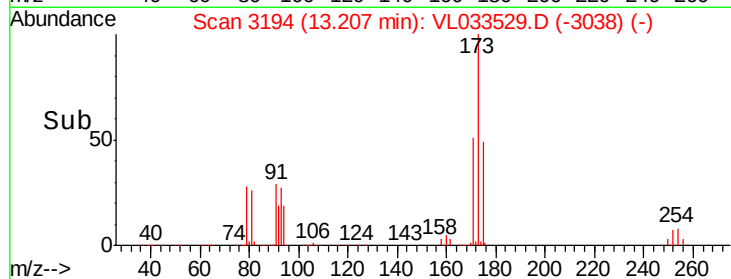
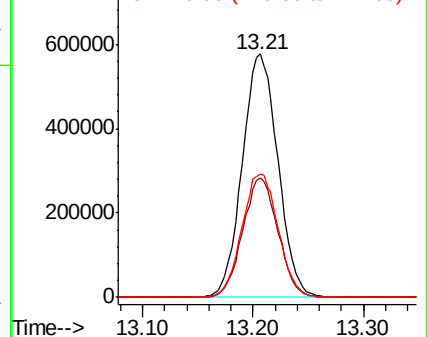


Abundance

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: 11.755 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL033529.D

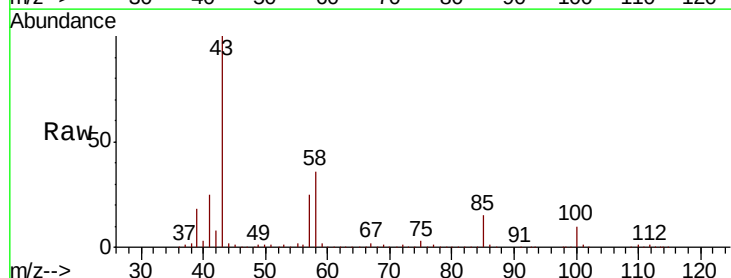
Acq: 30 Mar 2019 8:53

Tgt Ion: 43 Resp: 1823367

Ion Ratio Lower Upper

43 100

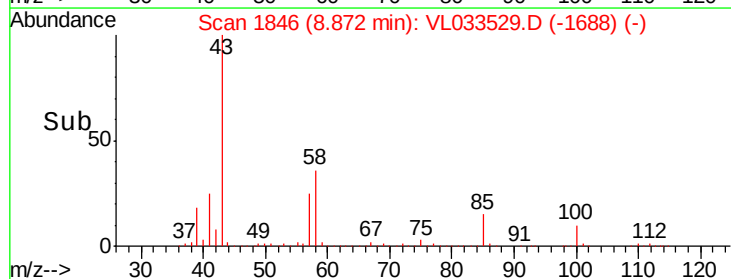
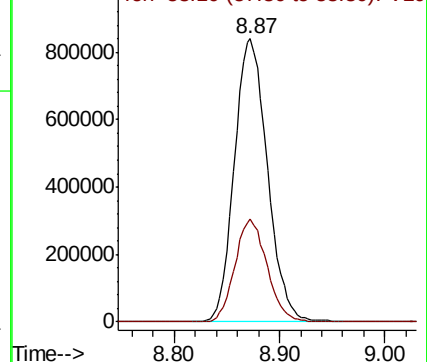
58 35.3 28.0 42.0

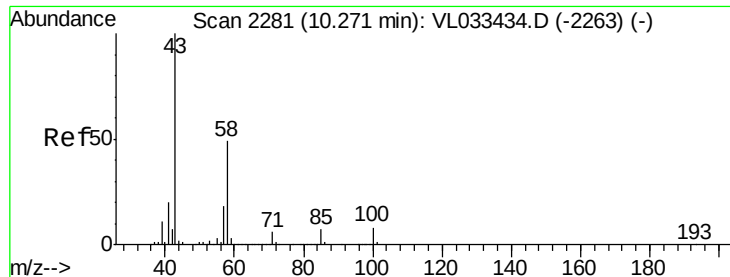


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

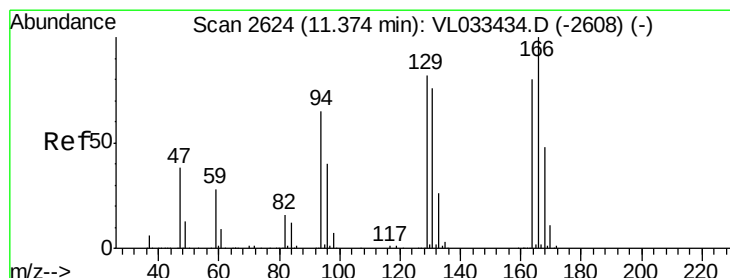
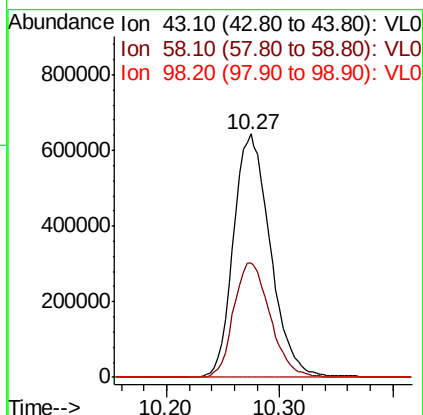
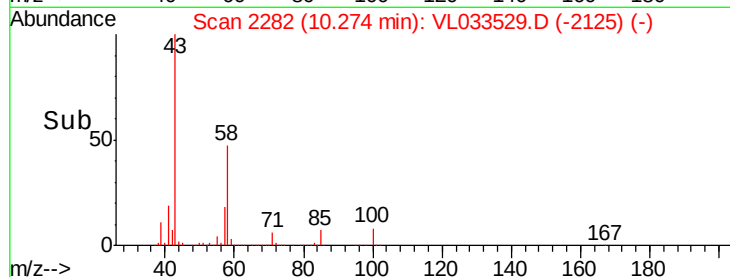
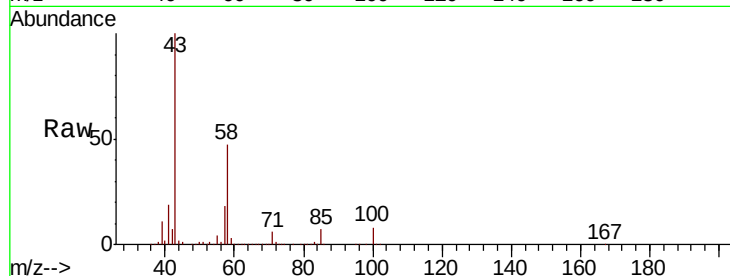




#51
2-Hexanone
Concen: 12.570 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

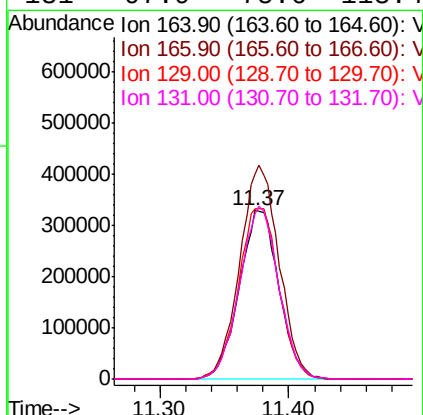
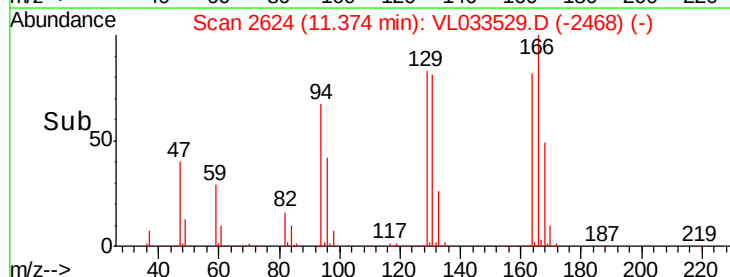
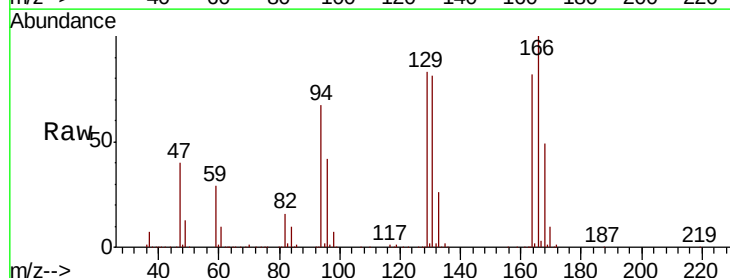
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

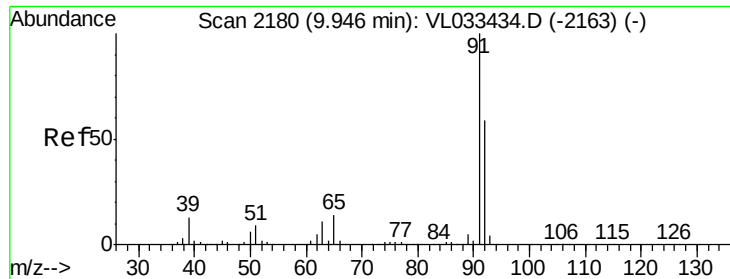
Tgt Ion: 43 Resp: 1454472
Ion Ratio Lower Upper
43 100
58 47.0 38.2 57.2
98 0.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 12.563 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 164 Resp: 701246
Ion Ratio Lower Upper
164 100
166 121.5 99.5 149.3
129 100.8 81.4 122.2
131 97.9 75.6 113.4





#53

Toluene

Concen: 12.294 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.01 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

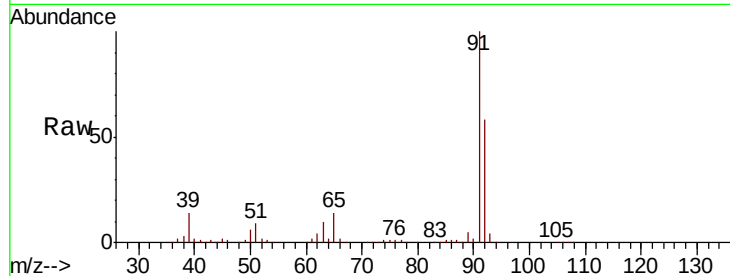
VSTDCCC010EC

Tgt Ion: 91 Resp: 2113430

Ion Ratio Lower Upper

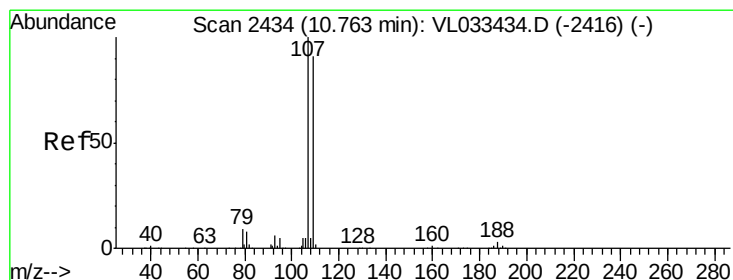
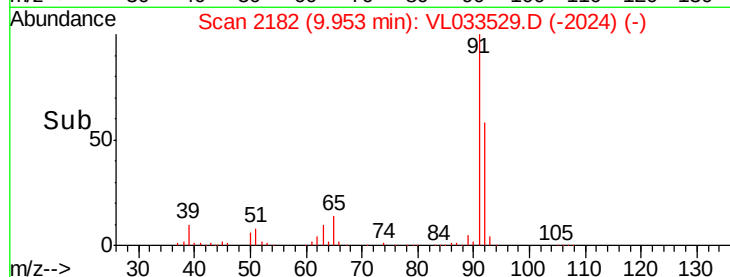
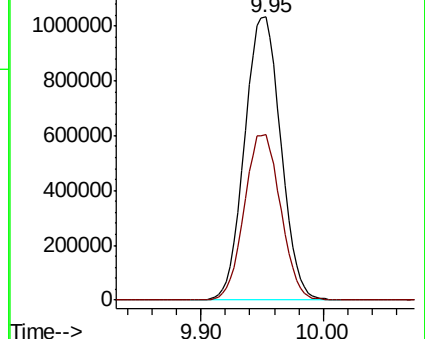
91 100

92 58.6 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.808 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033529.D

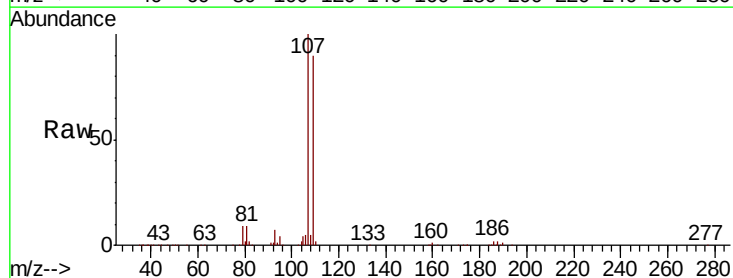
Acq: 30 Mar 2019 8:53

Tgt Ion: 107 Resp: 1215376

Ion Ratio Lower Upper

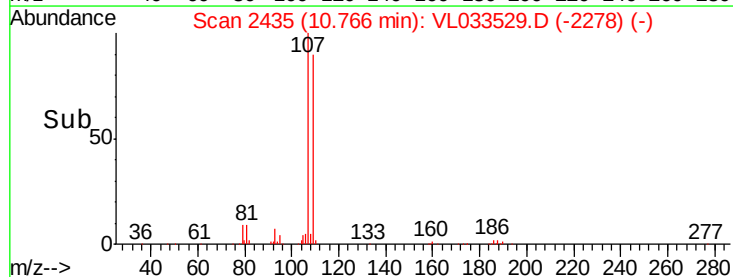
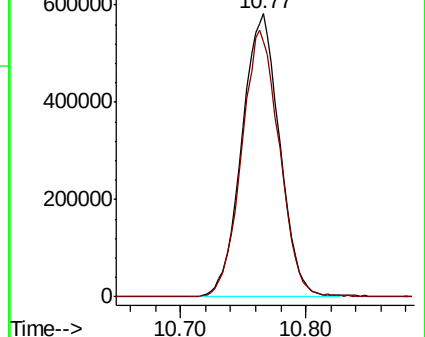
107 100

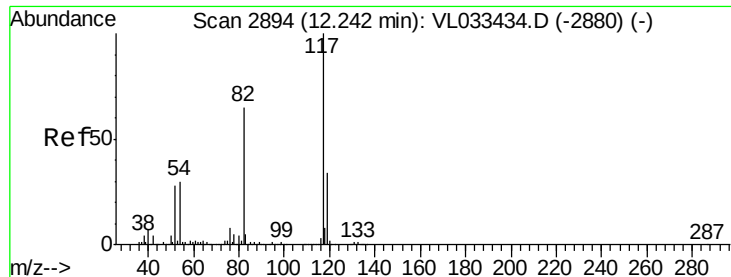
109 90.2 72.7 109.1



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: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

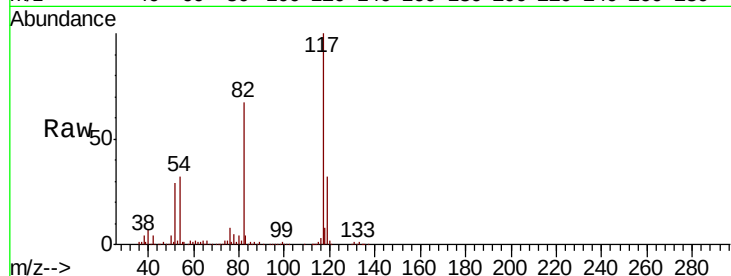
Tgt Ion:117 Resp: 2336025

Ion Ratio Lower Upper

117 100

82 52.2 51.5 77.3

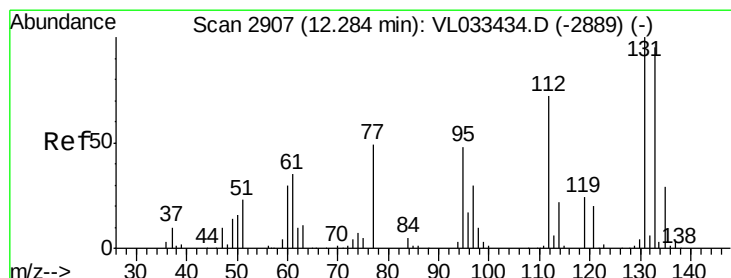
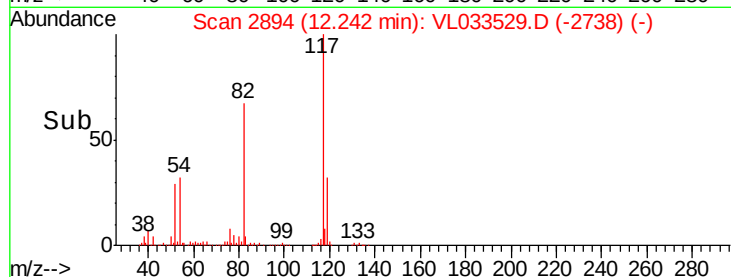
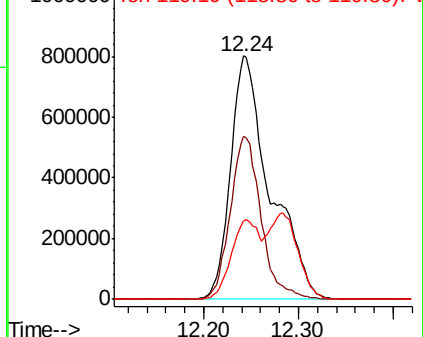
119 21.5 25.5 38.3#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.285 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

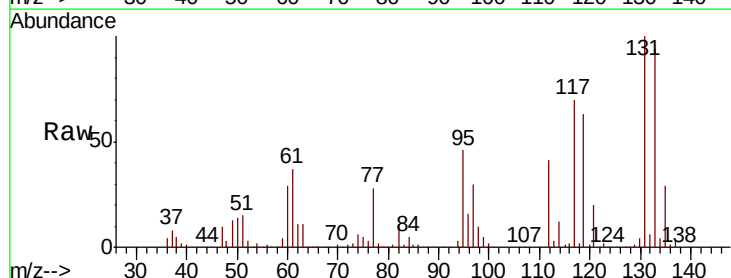
Tgt Ion:131 Resp: 994110

Ion Ratio Lower Upper

131 100

133 94.7 76.2 114.4

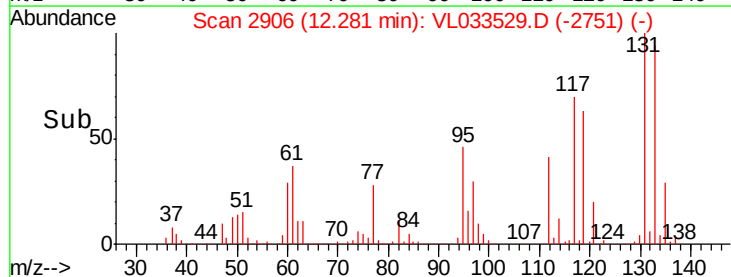
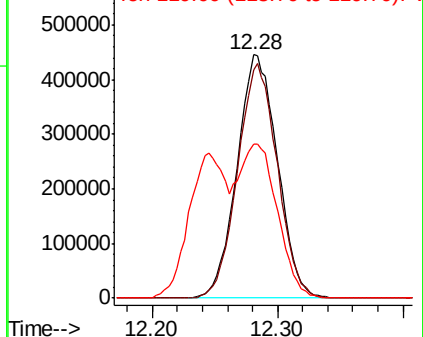
119 59.3 45.0 67.6

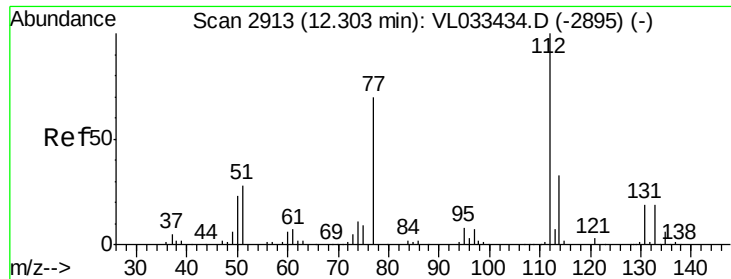


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

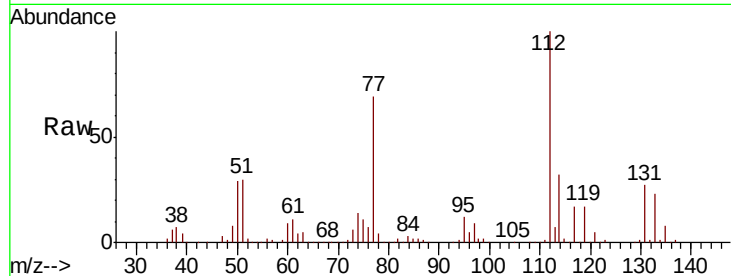




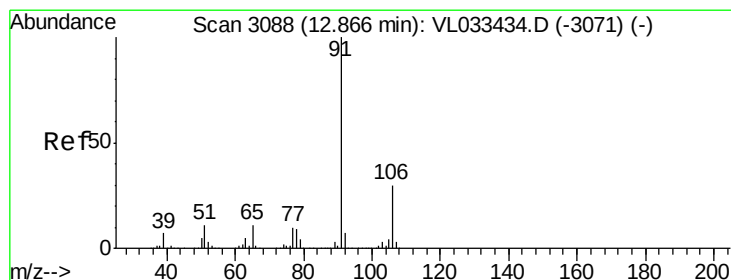
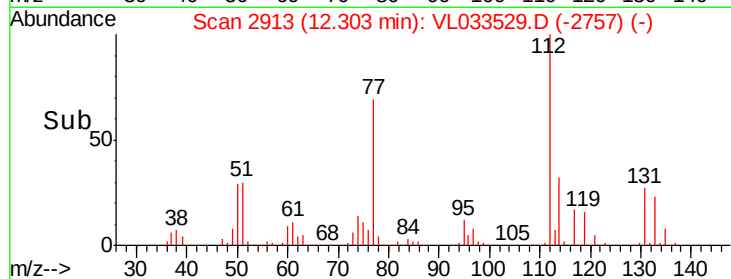
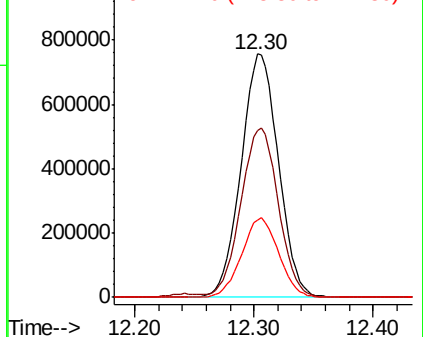
#57
Chlorobenzene
Concen: 9.052 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 112 Resp: 1641974
Ion Ratio Lower Upper
112 100
77 68.6 57.3 85.9
114 31.8 29.8 36.4

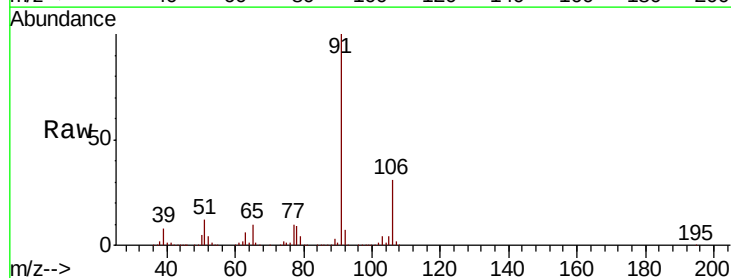


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

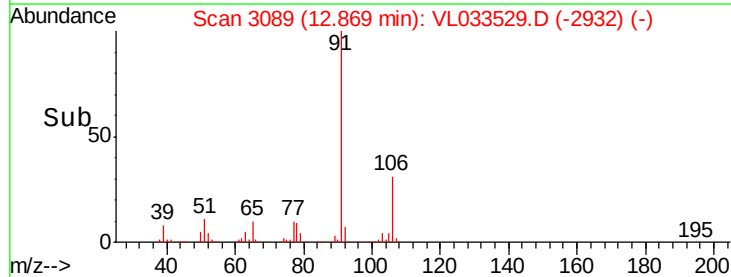
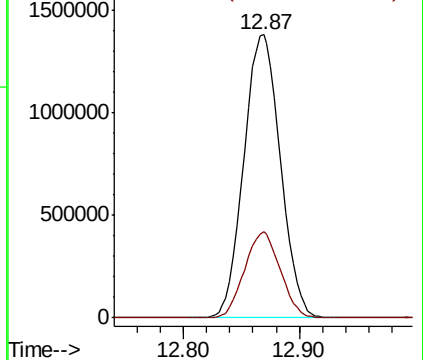


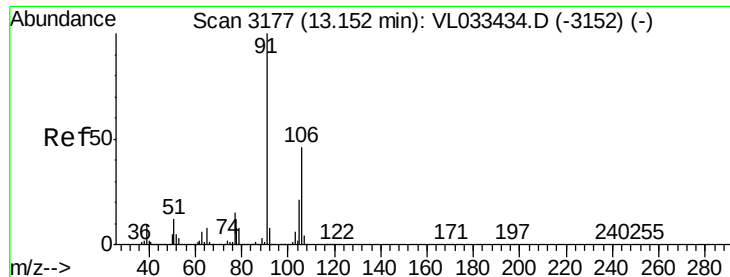
#58
Ethyl Benzene
Concen: 9.699 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 3025629
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6



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

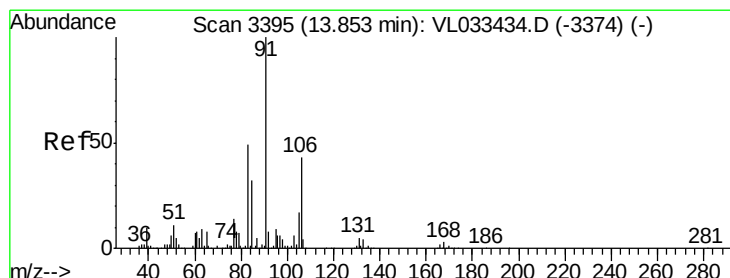
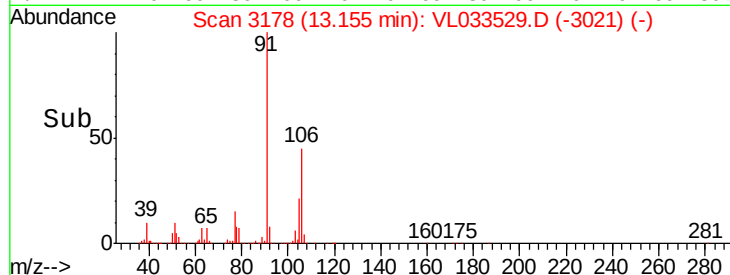
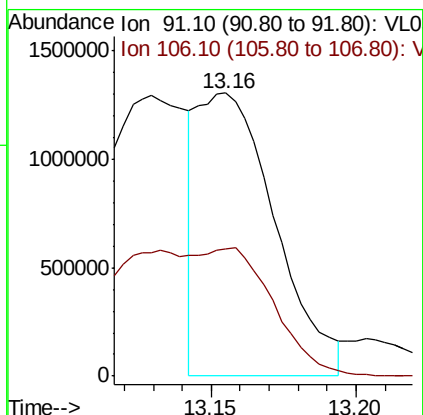
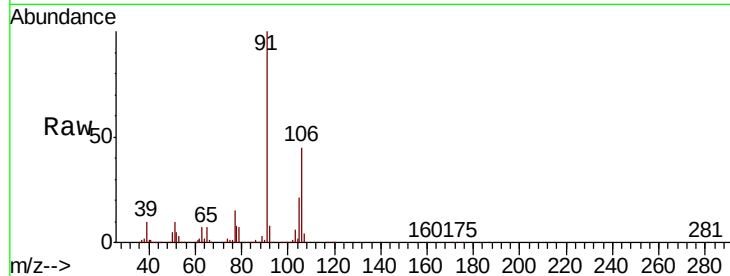




#59
m/p-Xylene
Concen: 8.647 ppbv
RT: 13.16 min Scan# 3178
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

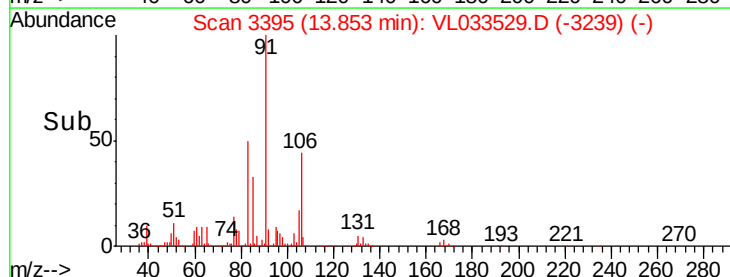
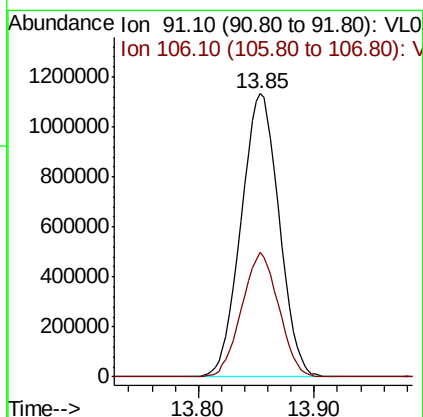
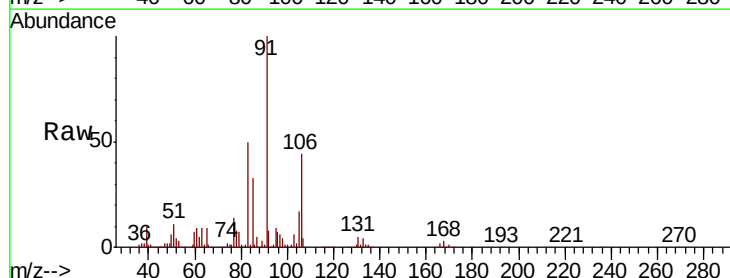
Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

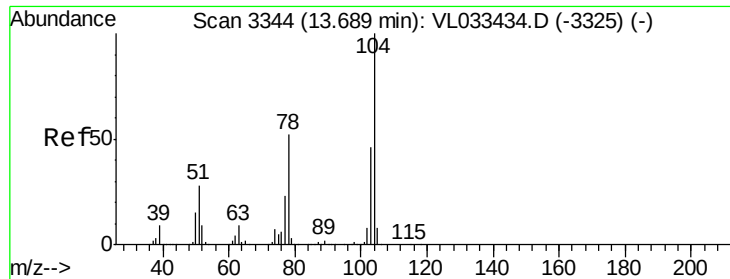
Tgt Ion: 91 Resp: 2409349
Ion Ratio Lower Upper
91 100
106 95.9 0.0 0.0#



#60
o-Xylene
Concen: 9.557 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 2575222
Ion Ratio Lower Upper
91 100
106 42.9 21.4 64.3

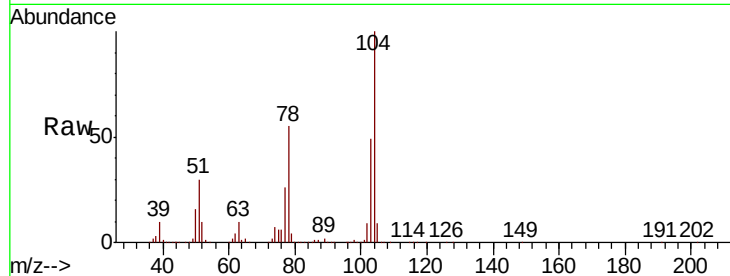




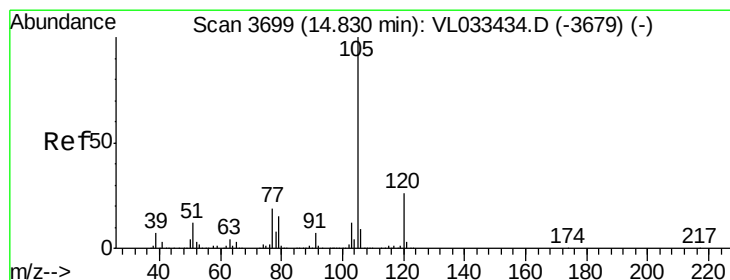
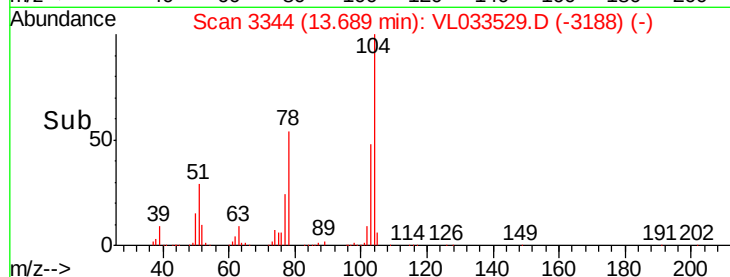
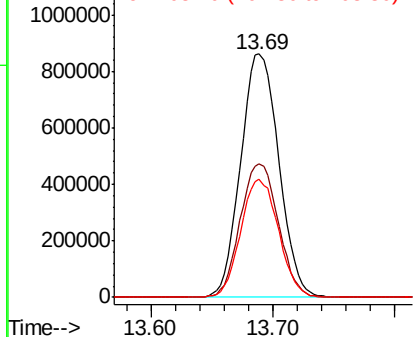
#61
Styrene
Concen: 10.075 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC010EC

Tgt Ion:104 Resp: 1863078
Ion Ratio Lower Upper
104 100
78 54.9 43.2 64.8
103 47.9 37.8 56.8

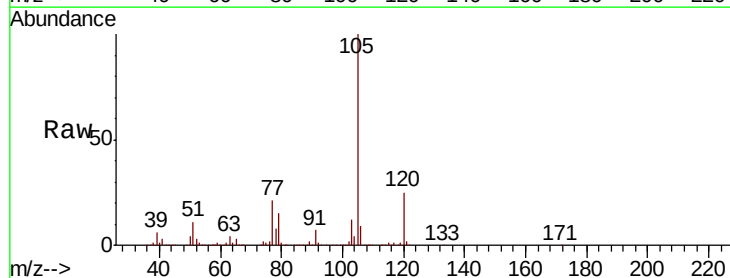


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

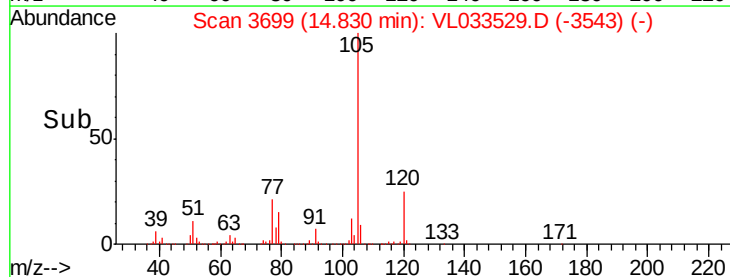
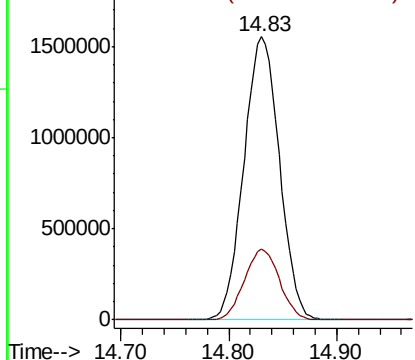


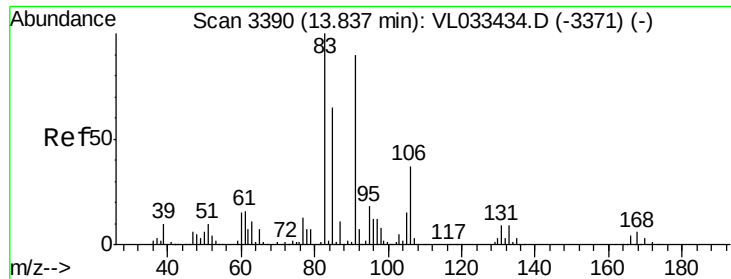
#62
Isopropylbenzene
Concen: 9.337 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.00 min
Lab File: VL033529.D
Acq: 30 Mar 2019 8:53

Tgt Ion:105 Resp: 3562797
Ion Ratio Lower Upper
105 100
120 24.8 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V

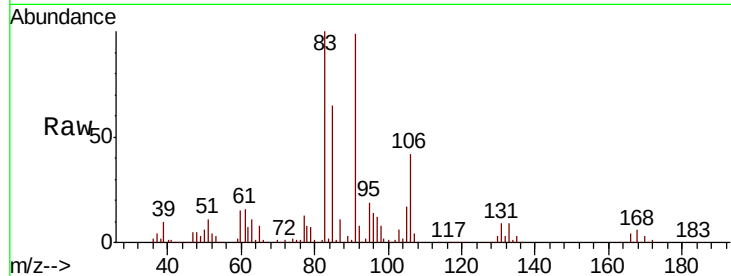




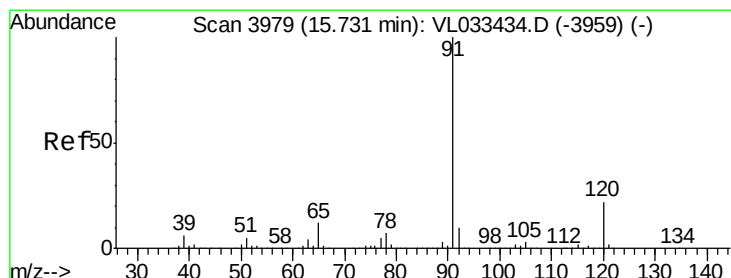
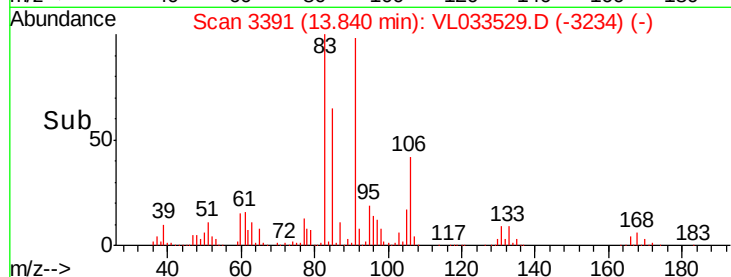
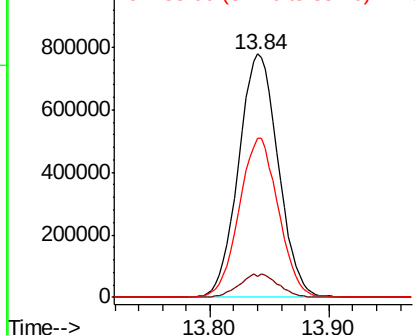
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.047 ppbv
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 83 Resp: 1794873
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.7 14.0
 85 65.1 32.7 98.1

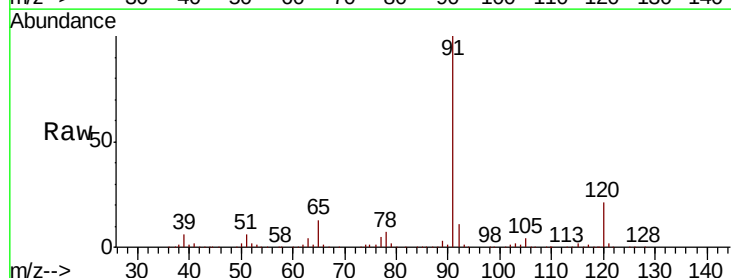


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

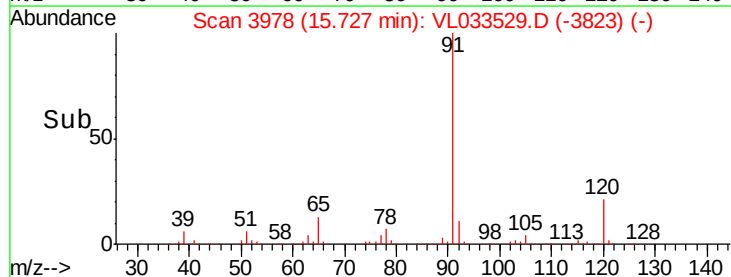
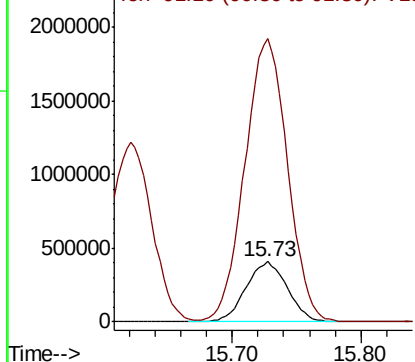


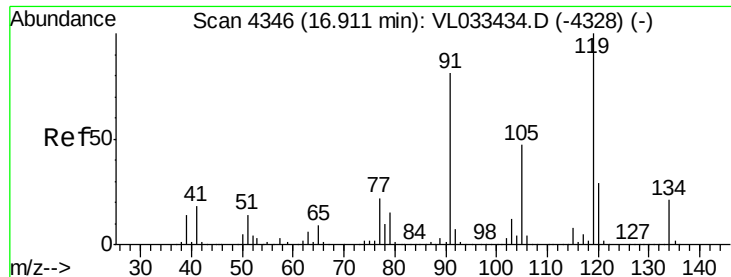
#64
 n-propylbenzene
 Concen: 9.439 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 120 Resp: 913873
 Ion Ratio Lower Upper
 120 100
 91 485.8 387.4 581.2



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0

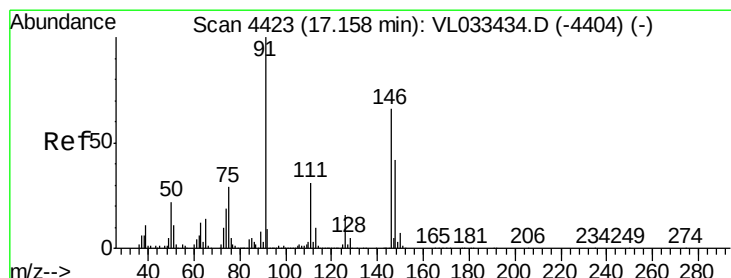
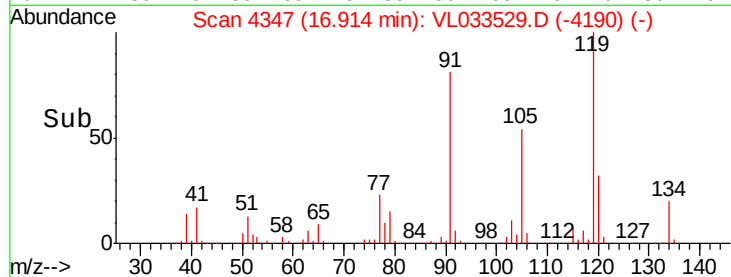
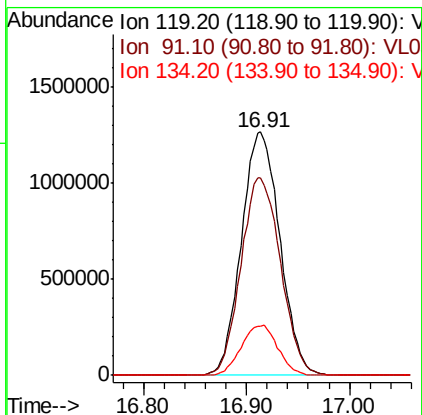
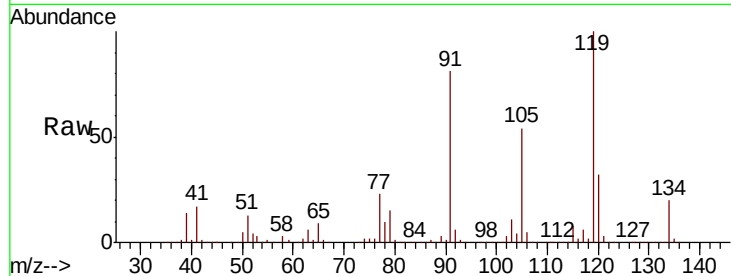




#65
 tert-Butylbenzene
 Concen: 9.742 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

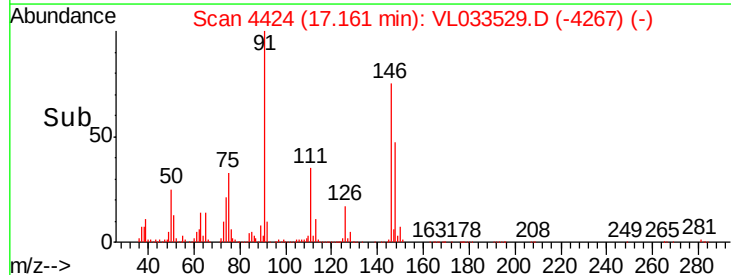
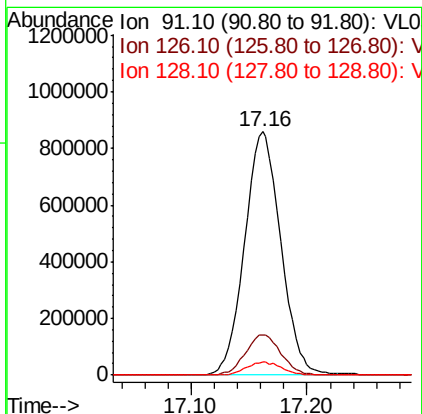
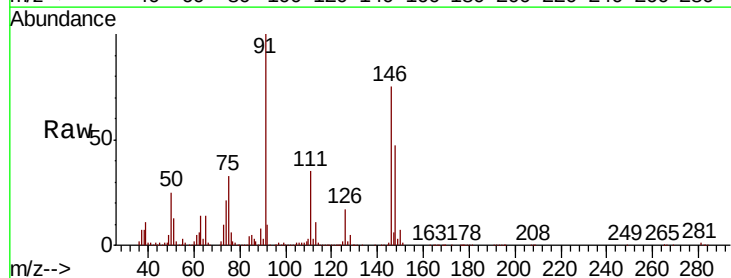
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

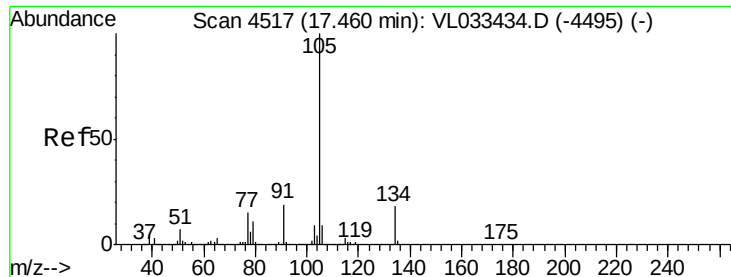
Tgt Ion: 119 Resp: 3275437
 Ion Ratio Lower Upper
 119 100
 91 83.8 66.4 99.6
 134 19.6 15.5 23.3



#66
 Benzyl Chloride
 Concen: 11.925 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 1864420
 Ion Ratio Lower Upper
 91 100
 126 16.4 13.0 19.6
 128 5.4 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.724 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

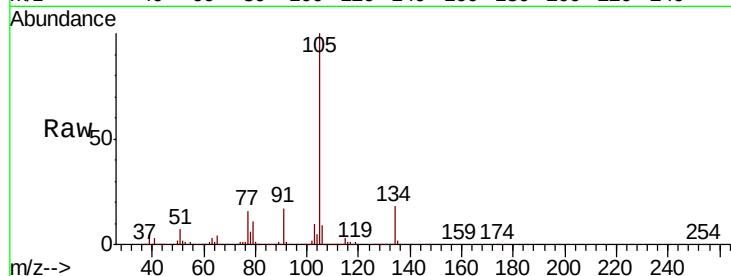
VSTDCCC010EC

Tgt Ion: 105 Resp: 4649798

Ion Ratio Lower Upper

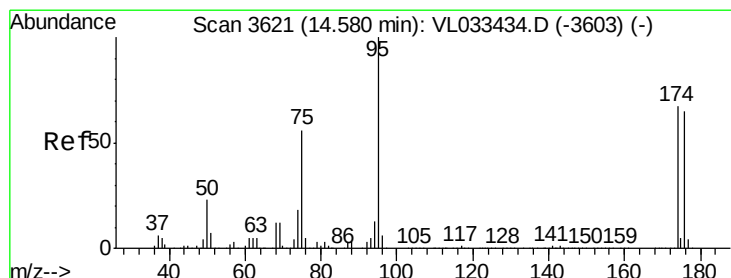
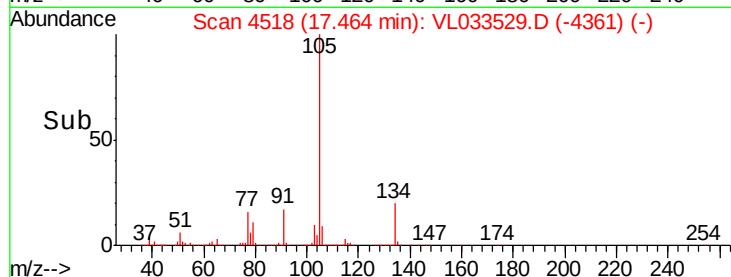
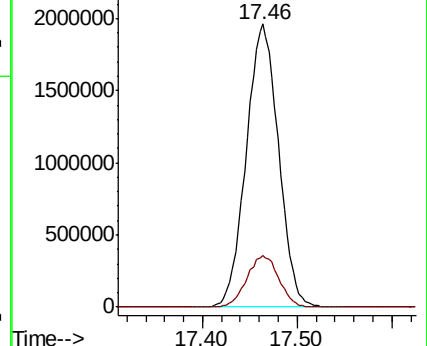
105 100

134 18.1 14.6 21.8



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: 7.736 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

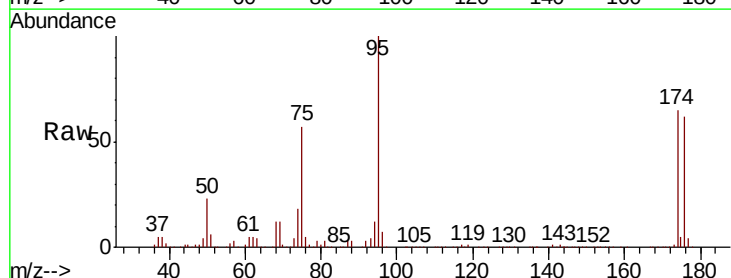
Tgt Ion: 95 Resp: 1416679

Ion Ratio Lower Upper

95 100

174 66.1 52.9 79.3

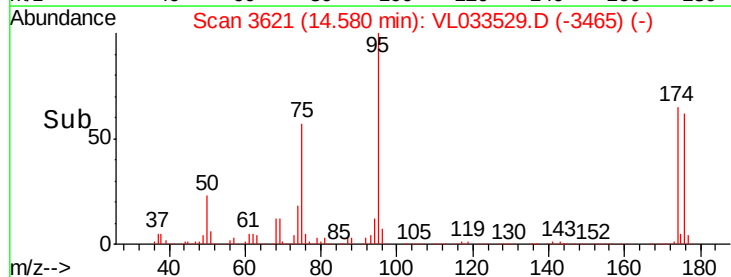
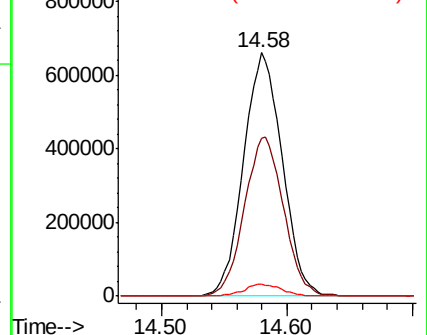
175 4.8 3.8 5.6

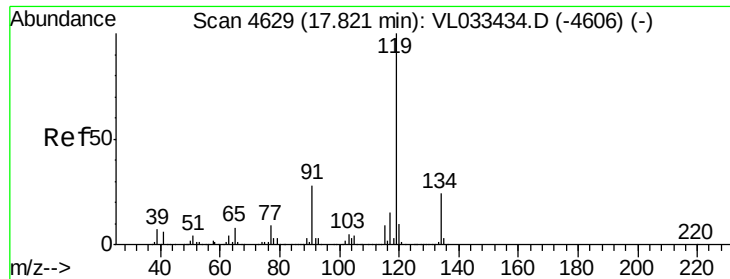


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

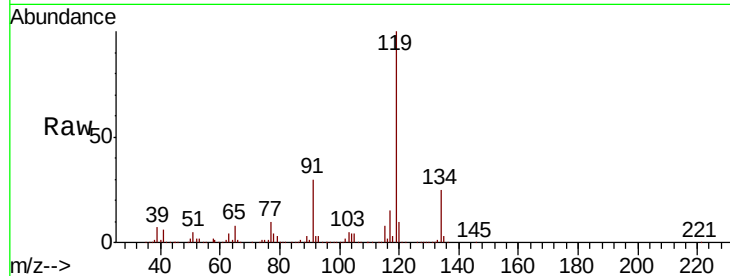




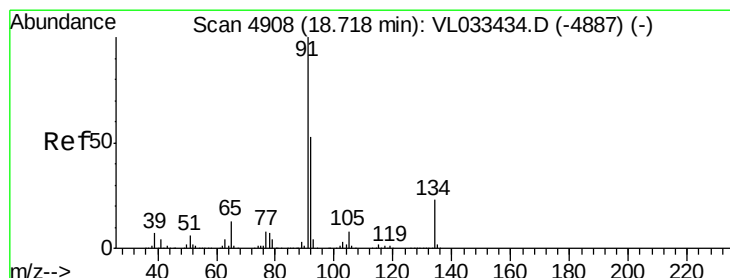
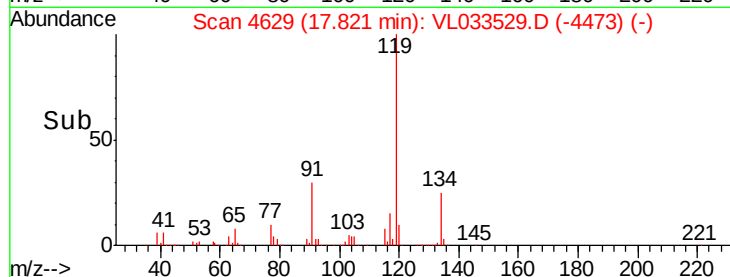
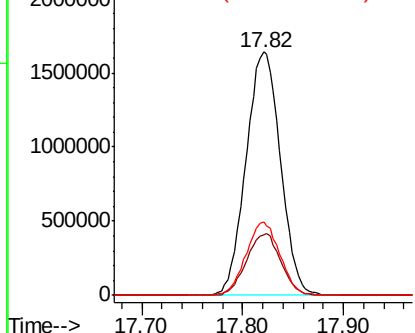
#69
 p-Isopropyltoluene
 Concen: 9.962 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 119 Resp: 3878483
 Ion Ratio Lower Upper
 119 100
 134 25.2 19.9 29.9
 91 29.6 23.4 35.0

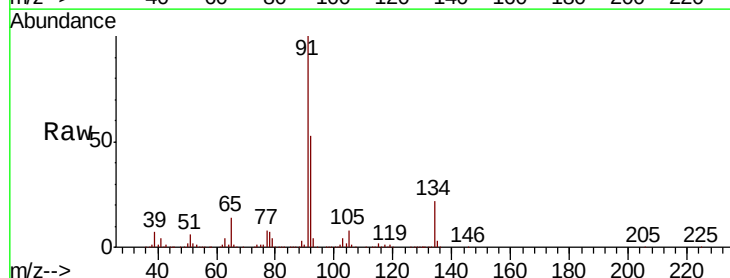


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

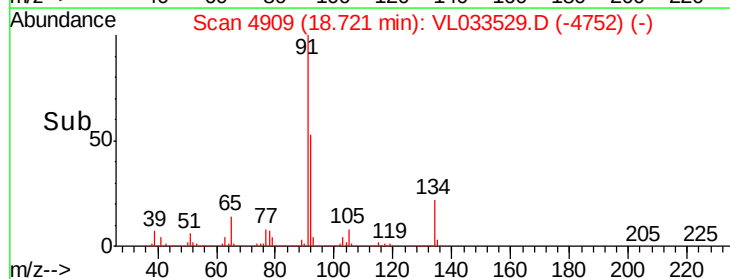
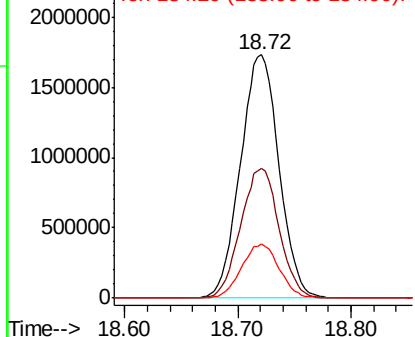


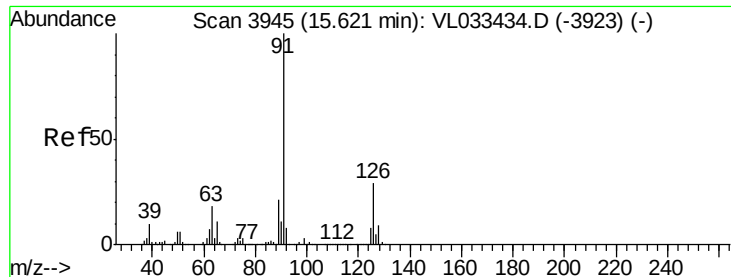
#70
 n-Butylbenzene
 Concen: 9.939 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion: 91 Resp: 4099709
 Ion Ratio Lower Upper
 91 100
 92 53.2 42.6 64.0
 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: 9.459 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

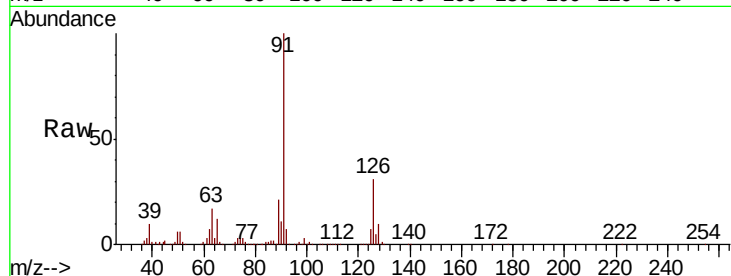
VSTDCCC010EC

Tgt Ion: 91 Resp: 2744381

Ion Ratio Lower Upper

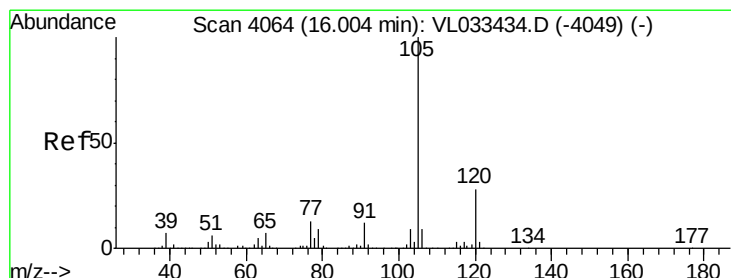
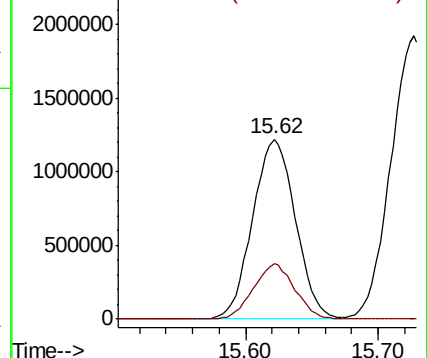
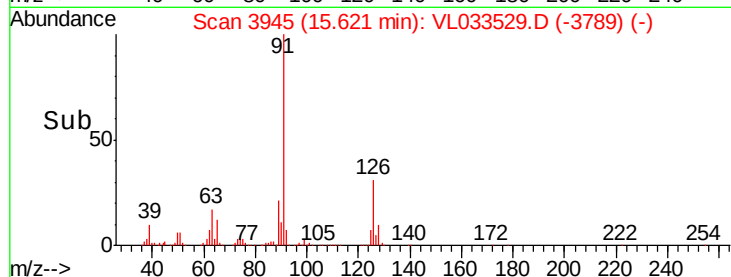
91 100

126 29.6 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.833 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion: 105 Resp: 2978269

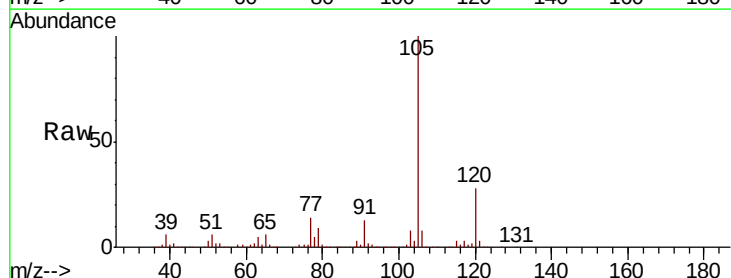
Ion Ratio Lower Upper

105 100

120 28.6 23.2 34.8

91 12.8 10.4 15.6

77 14.2 11.3 16.9

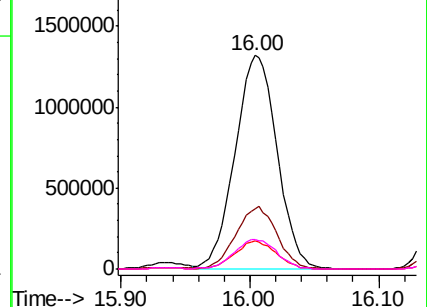
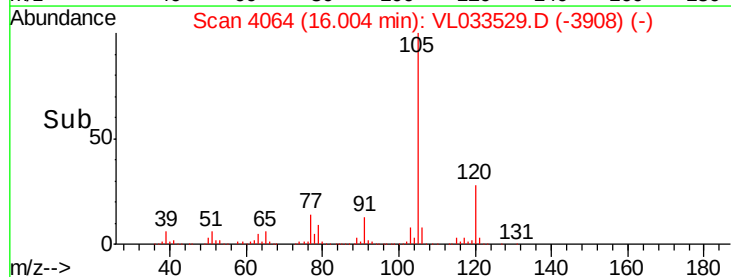


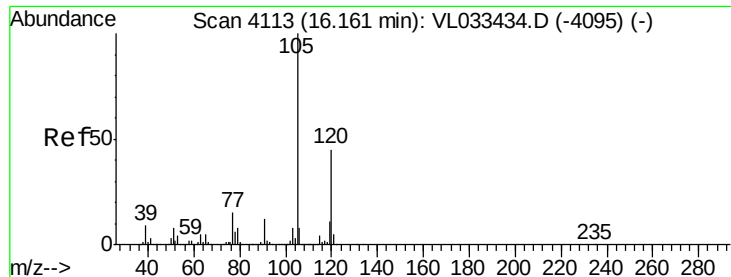
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.947 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

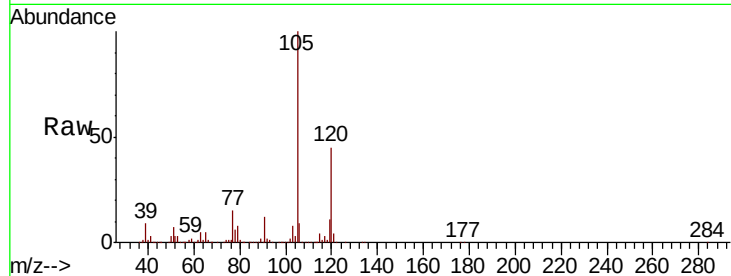
VSTDCCC010EC

Tgt Ion:105 Resp: 2883165

Ion Ratio Lower Upper

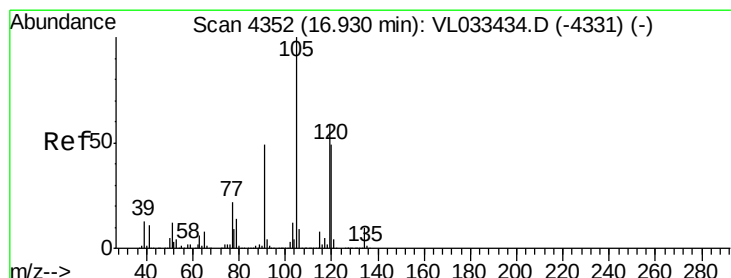
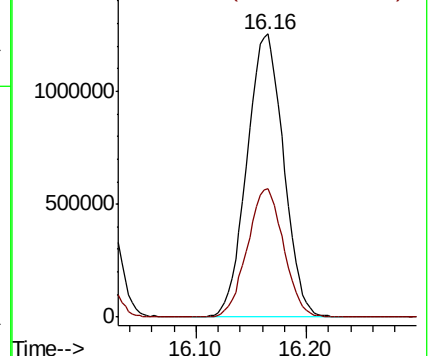
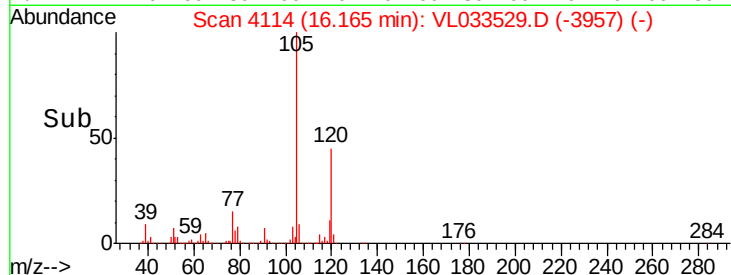
105 100

120 45.3 35.7 53.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.747 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Tgt Ion:105 Resp: 3028152

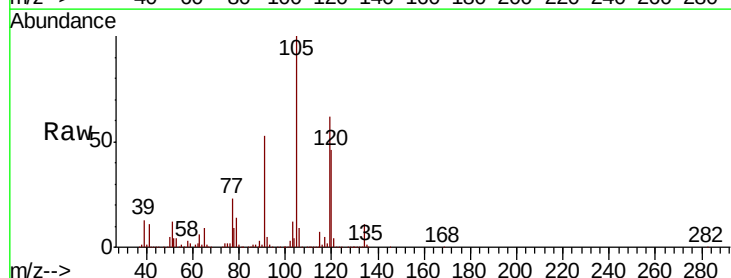
Ion Ratio Lower Upper

105 100

120 46.1 39.0 58.6

91 53.2 40.0 60.0

77 22.6 17.5 26.3

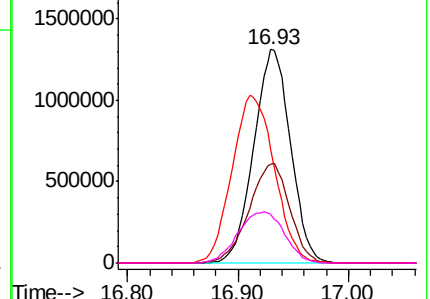
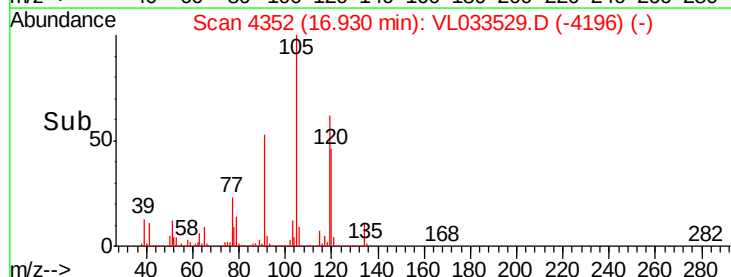


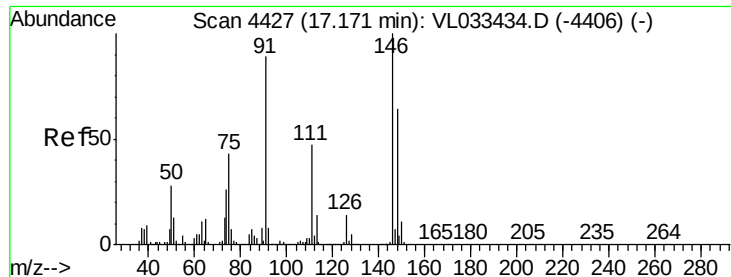
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 9.278 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

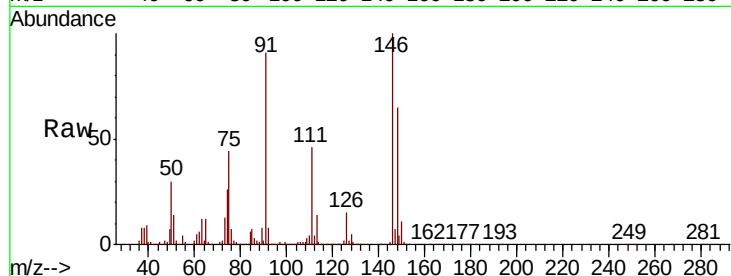
Tgt Ion:146 Resp: 1781468

Ion Ratio Lower Upper

146 100

111 45.5 22.9 68.8

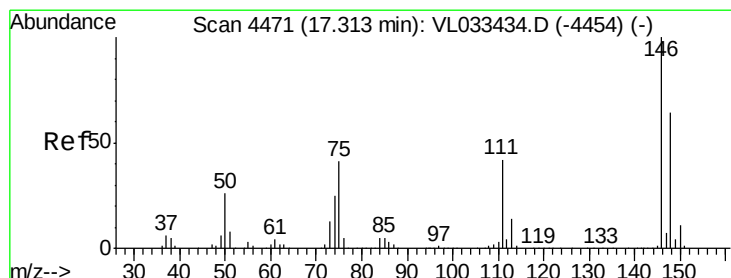
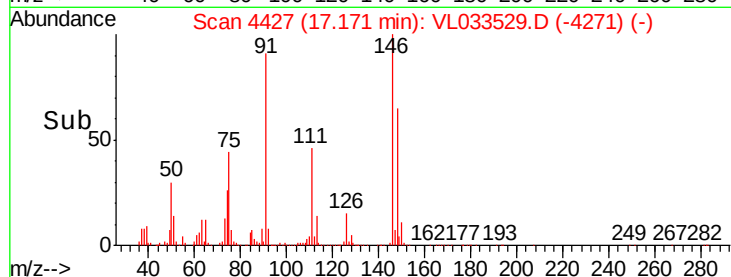
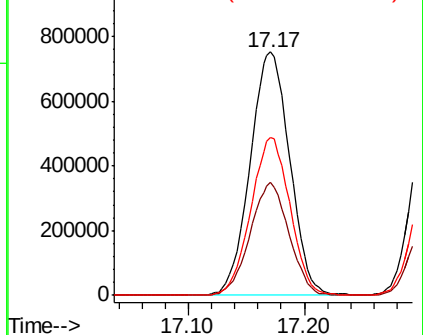
148 64.3 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.457 ppbv

RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

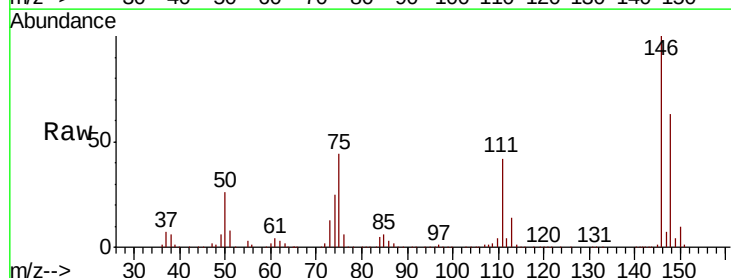
Tgt Ion:146 Resp: 1769139

Ion Ratio Lower Upper

146 100

111 44.6 21.7 65.1

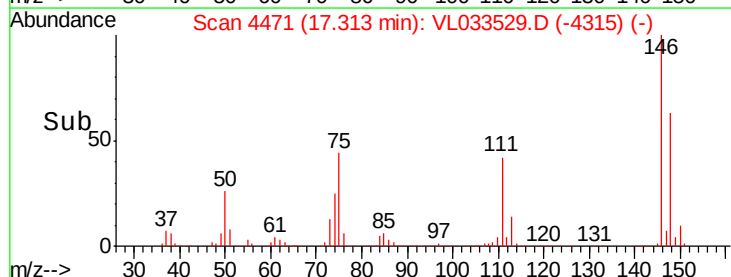
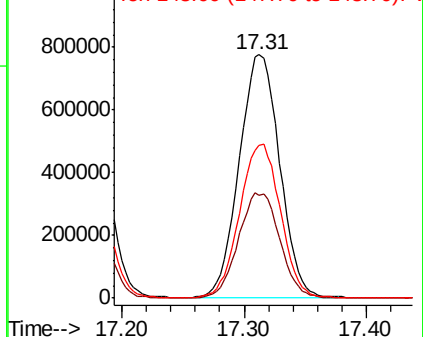
148 64.4 32.0 96.2

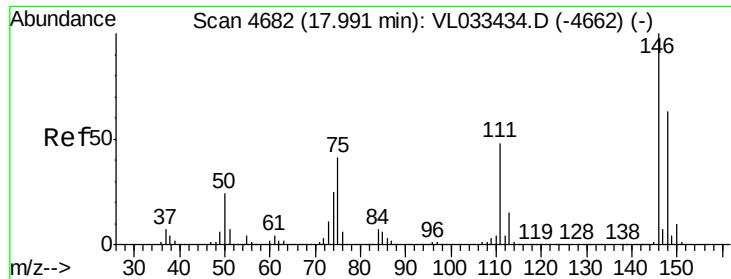


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

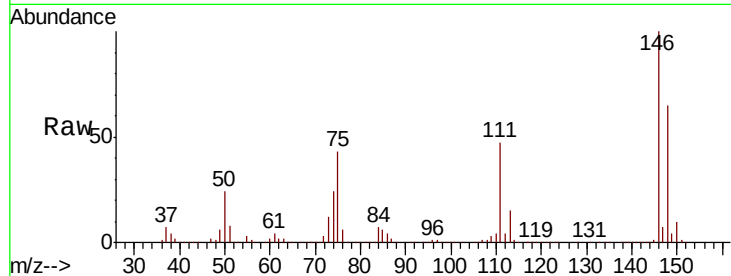




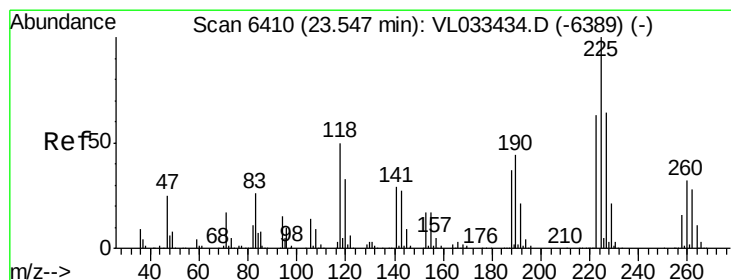
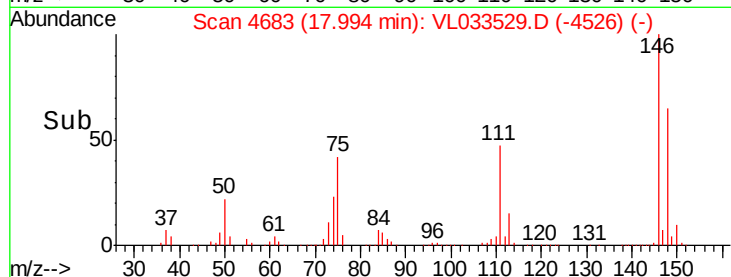
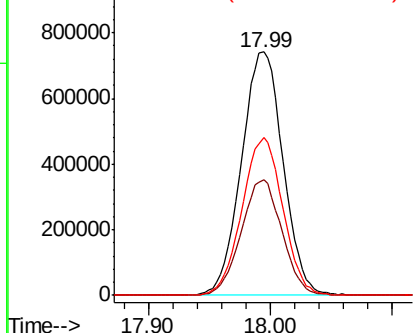
#77
 1,2-Dichlorobenzene
 Concen: 9.607 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:146 Resp: 1750306
 Ion Ratio Lower Upper
 146 100
 111 46.6 23.5 70.5
 148 63.7 32.0 96.0

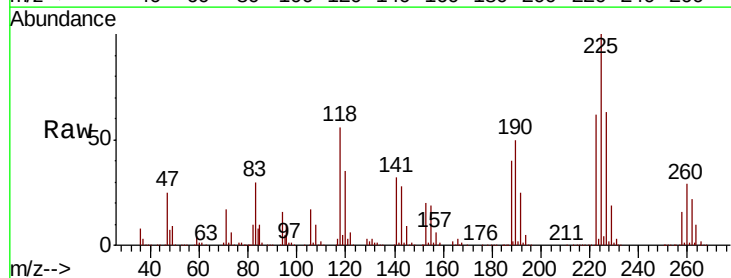


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

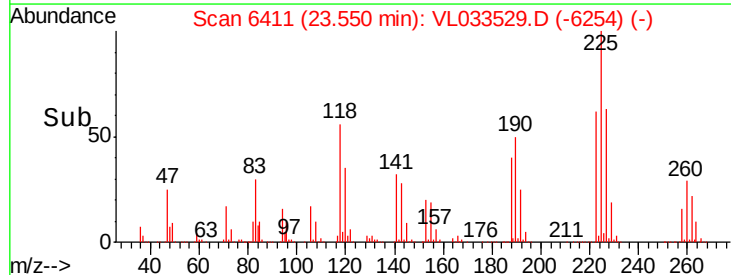
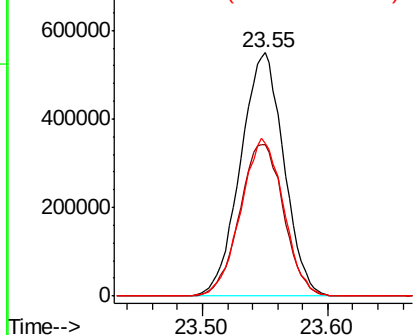


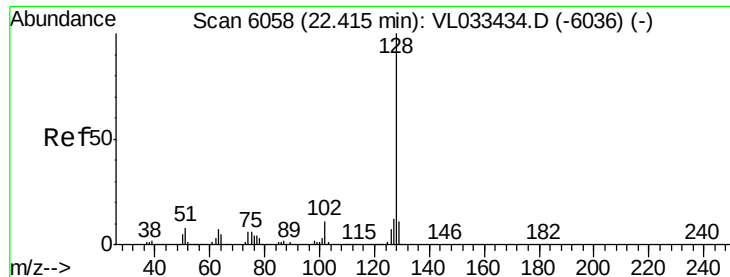
#78
 Hexachloro-1,3-Butadiene
 Concen: 10.913 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Tgt Ion:225 Resp: 1316080
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.0 75.0
 227 64.0 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.912 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC010EC

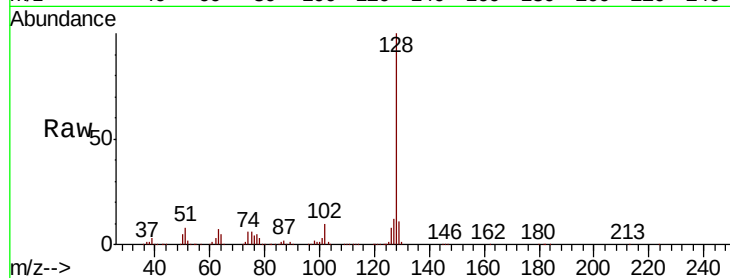
Tgt Ion:128 Resp: 2901951

Ion Ratio Lower Upper

128 100

127 12.2 9.8 14.8

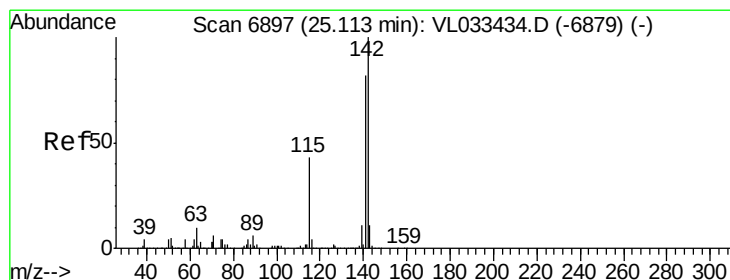
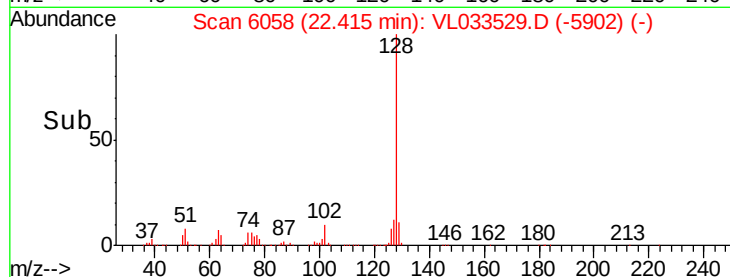
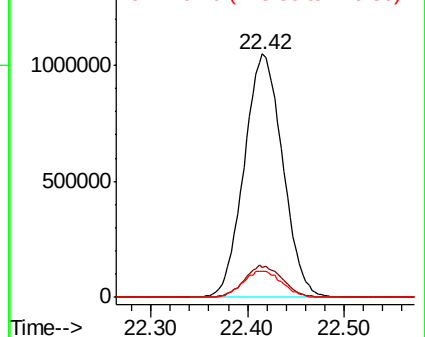
129 10.7 8.6 12.8



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: 13.678 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. 0.00 min

Lab File: VL033529.D

Acq: 30 Mar 2019 8:53

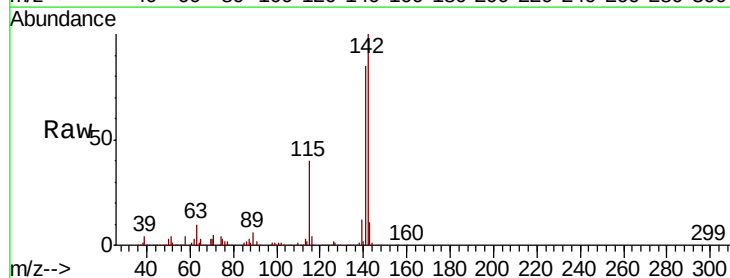
Tgt Ion:142 Resp: 1220736

Ion Ratio Lower Upper

142 100

141 84.0 66.6 99.8

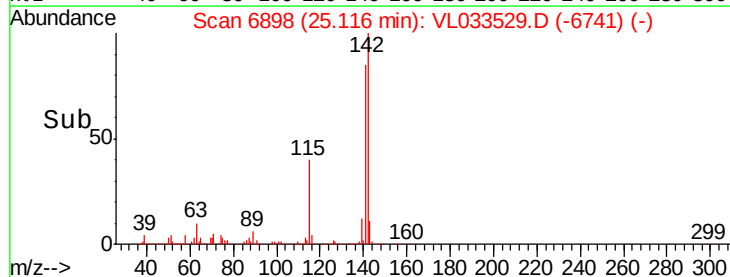
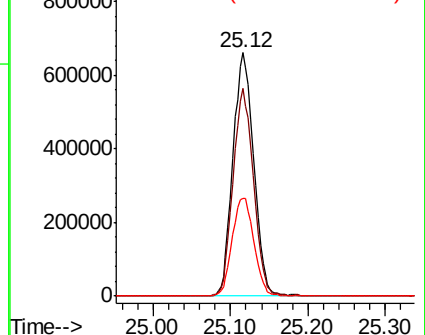
115 42.0 34.4 51.6

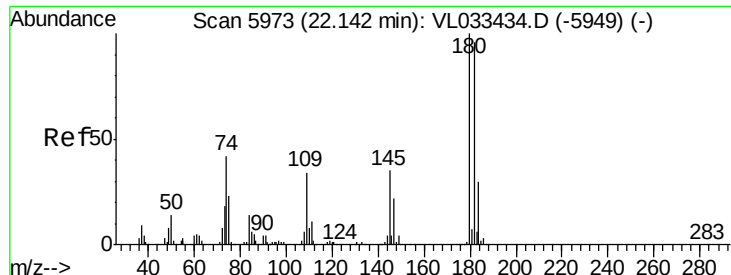


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

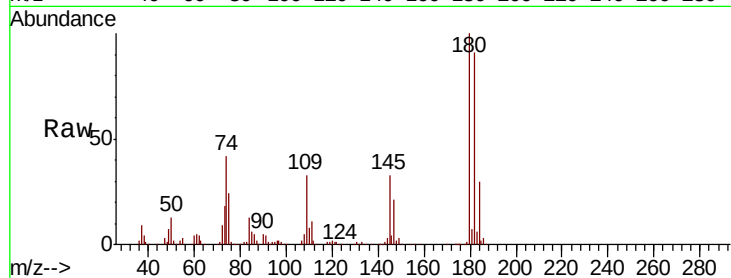




#81
 1,2,4-Trichlorobenzene
 Concen: 10.145 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL033529.D
 Acq: 30 Mar 2019 8:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:180 Resp: 1496453
 Ion Ratio Lower Upper
 180 100
 182 95.5 77.0 115.4
 184 30.4 24.6 36.8



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

