

Data File : VL033685.D

Acq On : 14 May 2019 10:03

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Quant Time: May 15 02:29:39 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019

QLast Update : Mon May 06 15:19:01 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1045023	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2418338	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2892408	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2161647	9.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	2040157	8.324	ppbv	99
3) Chlorodifluoromethane	3.01	51	1159507	7.683	ppbv	99
4) Chloromethane	3.17	50	616638	7.859	ppbv	98
5) Vinyl Chloride	3.29	62	618674	8.110	ppbv	99
6) Bromomethane	3.51	94	396317	8.178	ppbv	96
7) Chloroethane	3.60	64	235931	8.520	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1596815	7.915	ppbv	100
9) Propene	3.03	41	467054	8.118	ppbv	100
10) Heptane	8.24	43	1537157	10.826	ppbv	100
11) Trichlorofluoromethane	4.00	101	1931719	8.440	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1294262	8.412	ppbv	99
13) Ethanol	3.64	45	120961	7.004	ppbv	99
14) Bromoethene	3.79	108	502964	8.293	ppbv	98
15) Acetone	3.90	43	1192542	7.671	ppbv	99
16) 1,3-Butadiene	3.36	39	560172	8.402	ppbv	98
17) tert-Butyl alcohol	4.35	59	1075090	9.105	ppbv	100
18) 1,1-Dichloroethene	4.35	96	563846	8.488	ppbv	99
19) Isopropyl Alcohol	4.02	45	805658	8.435	ppbv	99
20) Methylene Chloride	4.41	84	479190	8.118	ppbv	95
21) Allyl Chloride	4.47	41	827599	8.795	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	587354	8.808	ppbv	97
23) Vinyl Acetate	5.15	43	1885249	9.332	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1303621	8.531	ppbv	100
25) Ethyl Acetate	5.76	43	2465309	9.747	ppbv	100
26) Hexane	5.78	57	1082254	9.954	ppbv	99
27) Carbon Disulfide	4.62	76	1436885	9.662	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1680078	9.175	ppbv	100
29) Chloroform	5.85	83	1860370	9.517	ppbv	99
30) Cyclohexane	7.24	84	912927	9.999	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1130186	10.449	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	1914284	9.483	ppbv	99
34) 2-Butanone	5.33	43	1473677	9.516	ppbv	99
35) Carbon Tetrachloride	7.13	117	2040589	10.267	ppbv	99
36) Benzene	7.00	78	2176592	10.037	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1456073	9.624	ppbv	99
38) Trichloroethene	7.96	130	1023143	12.862	ppbv	96
39) 1,2-Dichloropropane	7.73	63	843867	10.441	ppbv	99
40) 1,4-Dioxane	7.95	88	341544	10.574	ppbv	# 1
41) Tetrahydrofuran	6.15	42	887315	11.088	ppbv	99
42) Bromodichloromethane	7.91	83	2242185	11.477	ppbv	96
43) Methyl Methacrylate	8.13	69	1010368	12.387	ppbv	99

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ClientSampleId :
VSTDCCC010

Quant Time: May 15 02:29:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4187865	11.295	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1309931	13.085	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1538929	12.317	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	984031	10.602	ppbv	99
48) Dibromochloromethane	10.45	129	1761681	11.197	ppbv	100
49) Bromoform	13.20	173	1644538	12.033	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2659494	11.342	ppbv	100
51) 2-Hexanone	10.27	43	1988979	10.948	ppbv	100
52) Tetrachloroethene	11.37	164	876563	11.410	ppbv	98
53) Toluene	9.94	91	2668910	11.391	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1574110	11.259	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1240947	9.301	ppbv	99
57) Chlorobenzene	12.30	112	2150171	9.054	ppbv	99
58) Ethyl Benzene	12.86	91	3845742	10.196	ppbv	99
59) m/p-Xylene	13.15	91	2949613	8.878	ppbv #	19
60) o-Xylene	13.85	91	3224951	9.592	ppbv	100
61) Styrene	13.68	104	2400950	10.724	ppbv	99
62) Isopropylbenzene	14.82	105	4422539	9.633	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2221222	9.077	ppbv	99
64) n-propylbenzene	15.72	120	1138157	9.594	ppbv	99
65) tert-Butylbenzene	16.90	119	4027566	9.564	ppbv	99
66) Benzyl Chloride	17.15	91	2353777	12.286	ppbv	100
67) sec-Butylbenzene	17.45	105	5589224	9.513	ppbv	100
69) p-Isopropyltoluene	17.81	119	4383879	9.055	ppbv	100
70) n-Butylbenzene	18.71	91	4956931	9.656	ppbv	100
71) 2-Chlorotoluene	15.61	91	3365204	9.922	ppbv	100
72) 4-Ethyltoluene	16.00	105	3731797	9.443	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3546803	9.282	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	3870290	9.112	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	2276896	8.875	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2248458	9.235	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2017373	8.488	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1296439	6.883	ppbv	100
79) Naphthalene	22.41	128	3296018	8.499	ppbv	99
80) Naphthalene,2-methyl-	25.11	142	1185549	8.087	ppbv	100
81) 1,2,4-Trichlorobenzene	22.13	180	1006375	4.467	ppbv #	14

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

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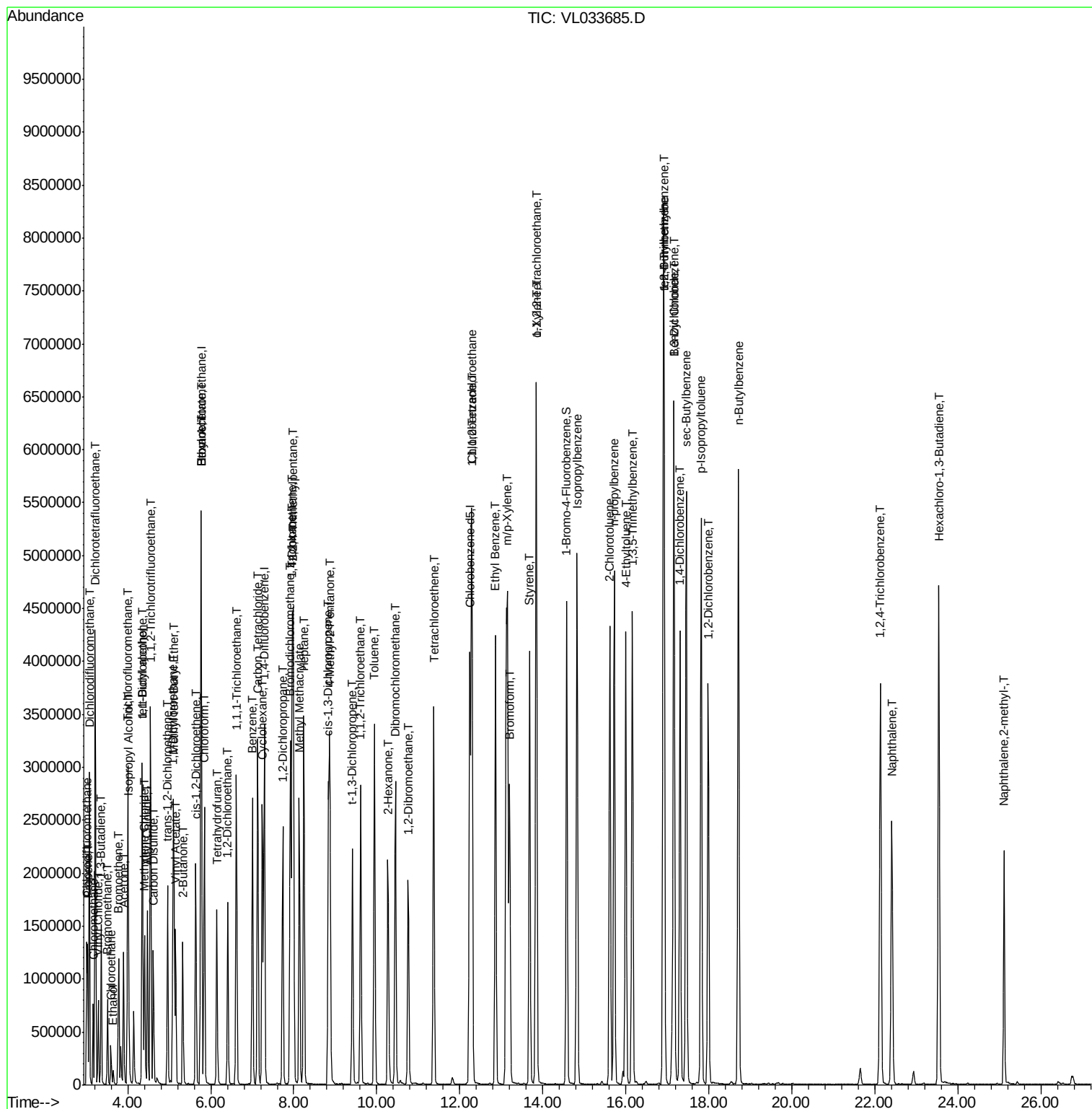
Quant Time: May 15 02:29:39 2019

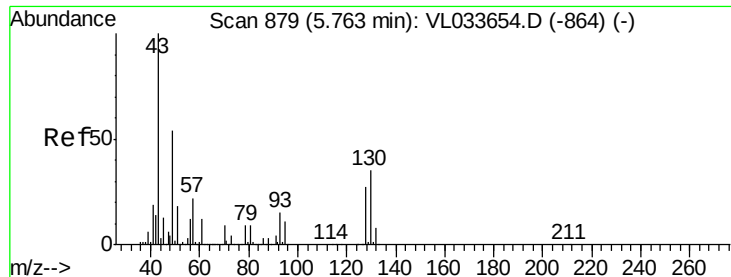
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL050619AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon May 06 15:19:01 2019

QLast Update : Mon May 06 15:19:01 2019

Response via : Initial Calibration

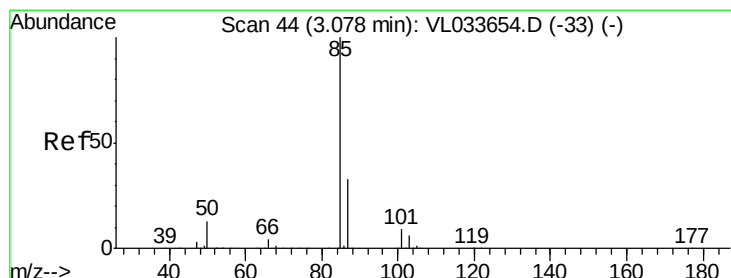
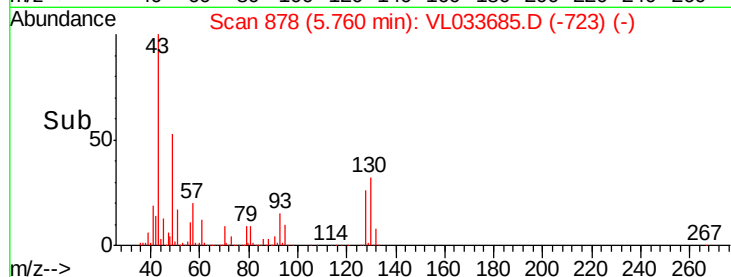
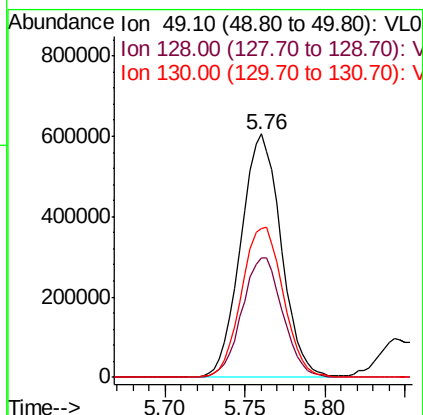
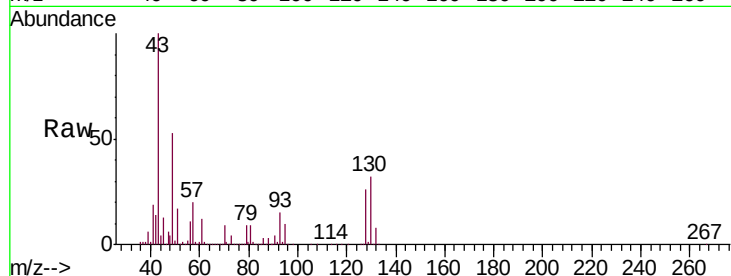




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

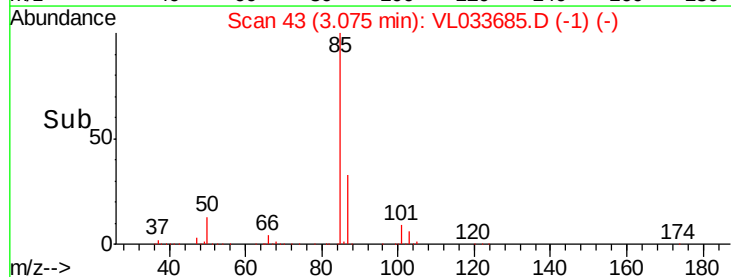
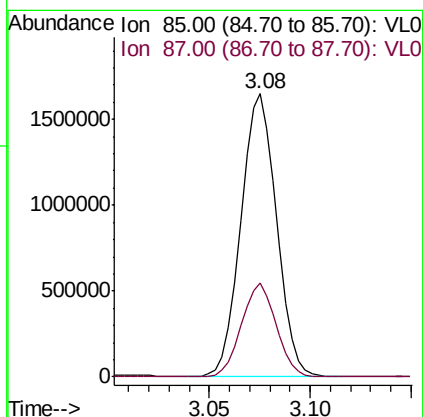
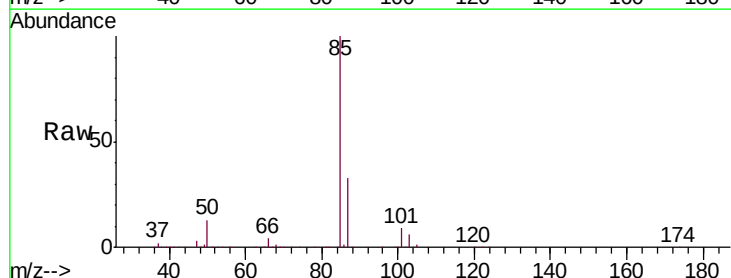
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

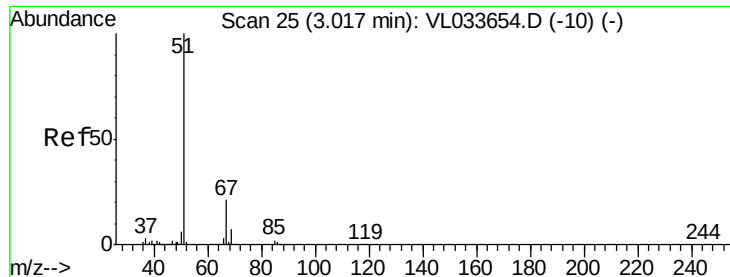
Tgt Ion: 49 Resp: 1045023
Ion Ratio Lower Upper
49 100
128 49.5 24.8 74.3
130 63.8 32.1 96.5



#2
Dichlorodifluoromethane
Concen: 8.324 ppbv
RT: 3.08 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 85 Resp: 2040157
Ion Ratio Lower Upper
85 100
87 33.0 26.0 39.0





#3

Chlorodifluoromethane

Concen: 7.683 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

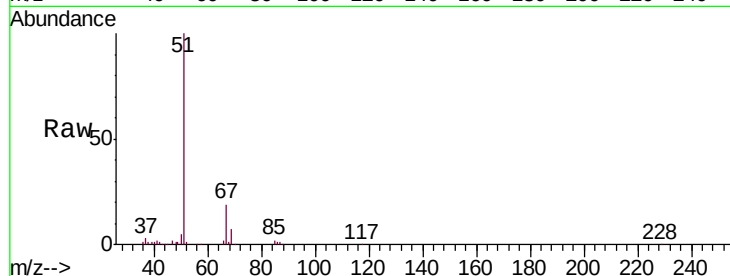
VSTDCCC010

Tgt Ion: 51 Resp: 1159507

Ion Ratio Lower Upper

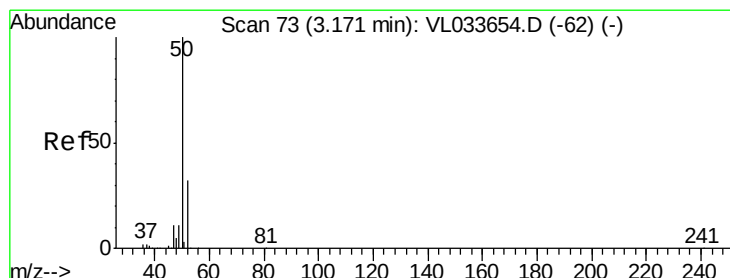
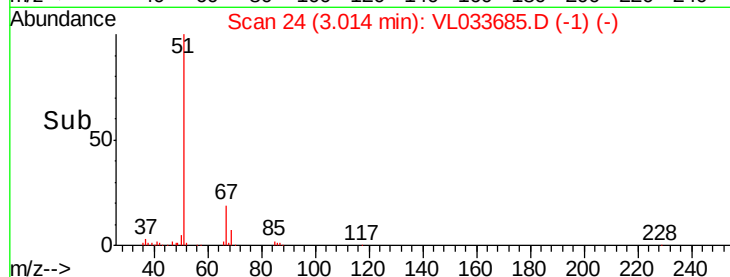
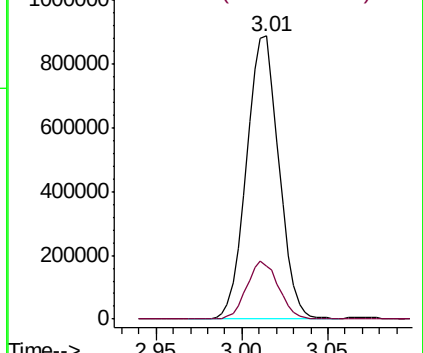
51 100

67 20.1 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: 7.859 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033685.D

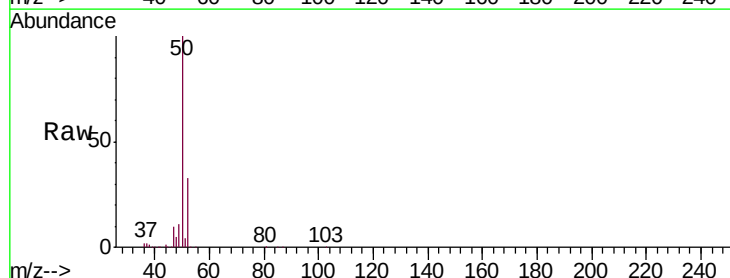
Acq: 14 May 2019 10:03

Tgt Ion: 50 Resp: 616638

Ion Ratio Lower Upper

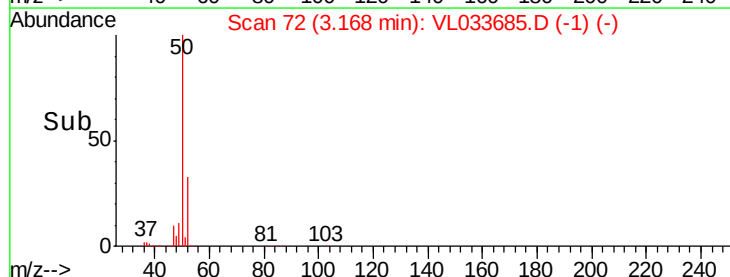
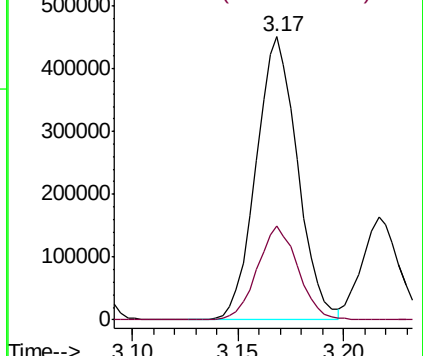
50 100

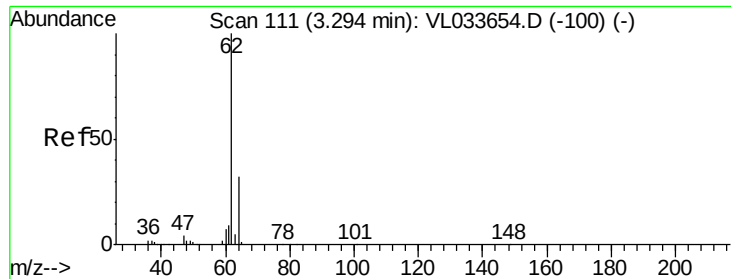
52 33.2 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.110 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

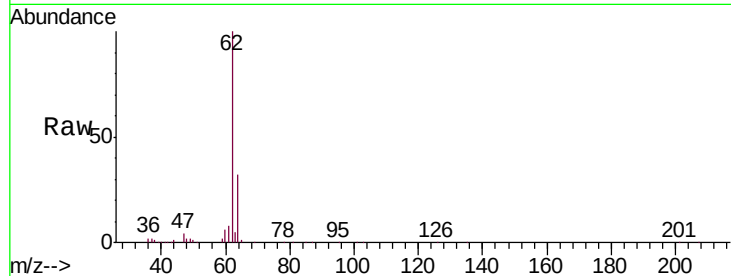
VSTDCCC010

Tgt Ion: 62 Resp: 618674

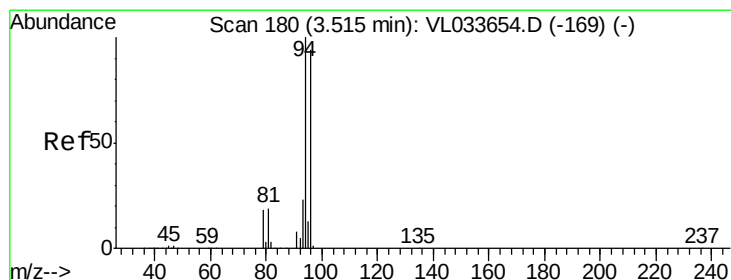
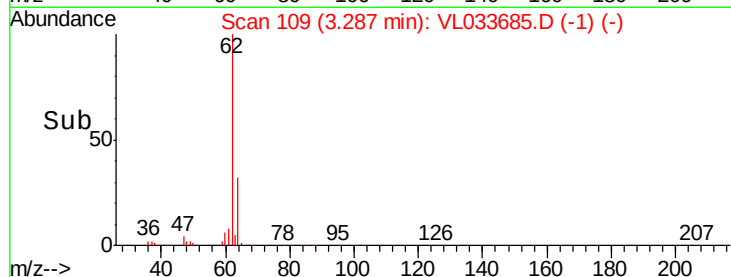
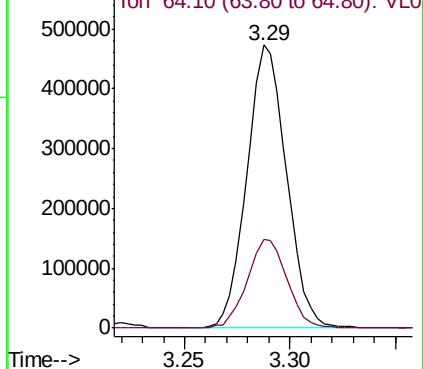
Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4



Abundance Ion 62.10 (61.80 to 62.80): VL0



#6

Bromomethane

Concen: 8.178 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033685.D

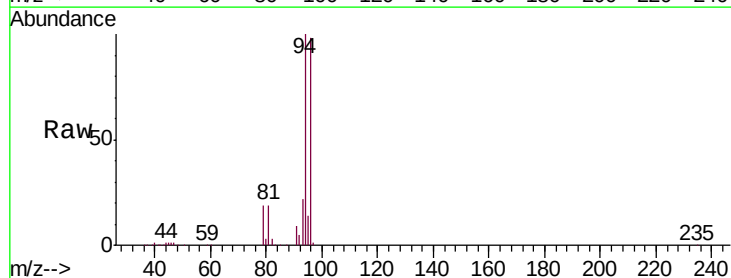
Acq: 14 May 2019 10:03

Tgt Ion: 94 Resp: 396317

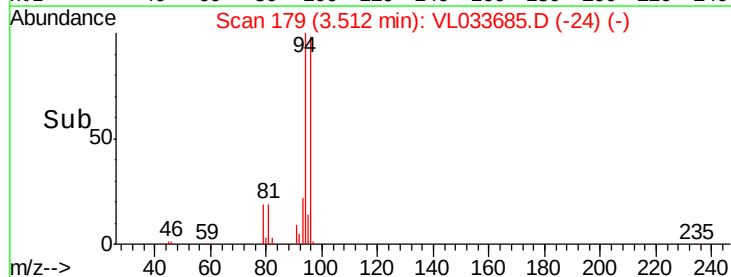
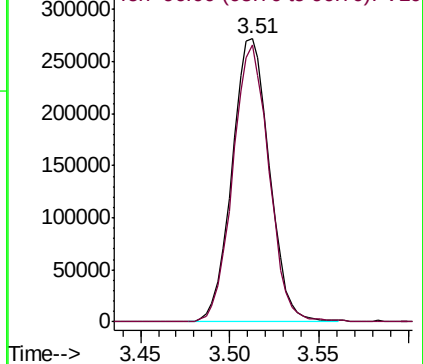
Ion Ratio Lower Upper

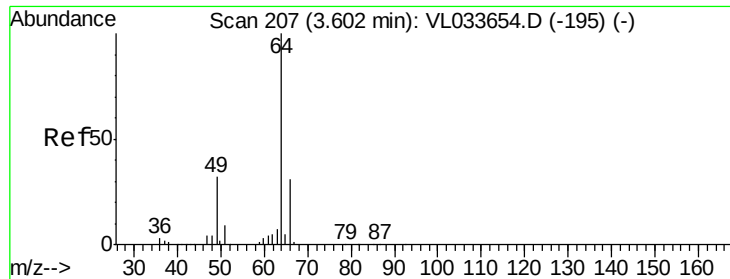
94 100

96 98.0 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VL0





#7

Chloroethane

Concen: 8.520 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

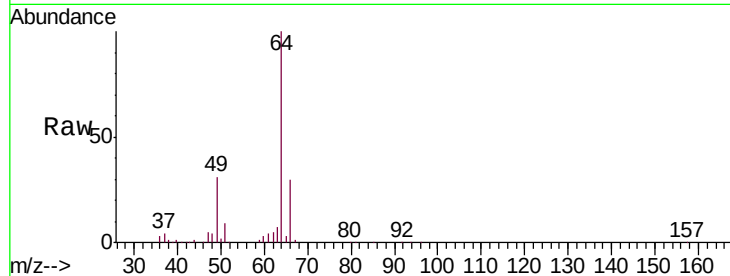
VSTDCCC010

Tgt Ion: 64 Resp: 235931

Ion Ratio Lower Upper

64 100

66 30.2 25.1 37.7



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

200000

150000

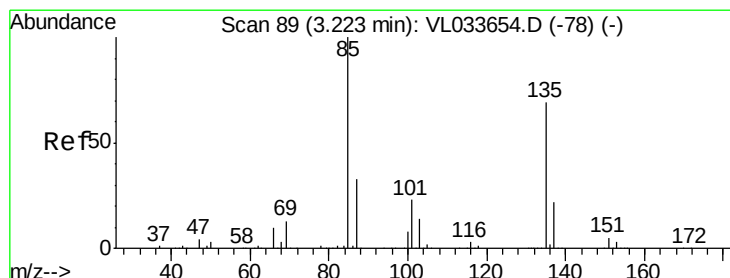
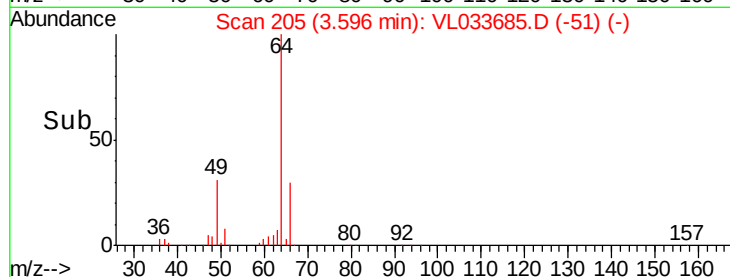
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 7.915 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033685.D

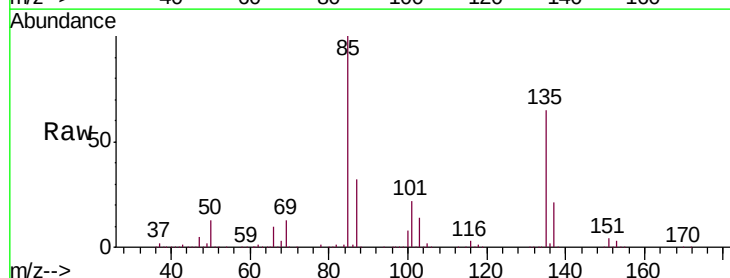
Acq: 14 May 2019 10:03

Tgt Ion: 85 Resp: 1596815

Ion Ratio Lower Upper

85 100

135 67.9 54.3 81.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

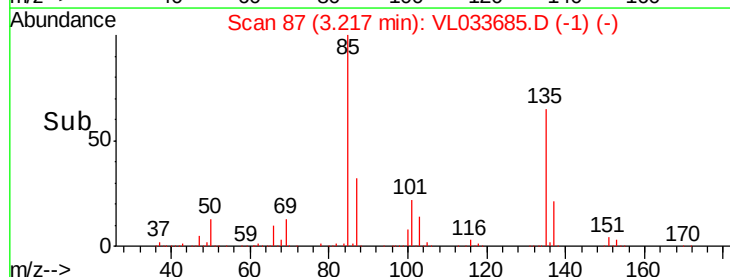
1000000

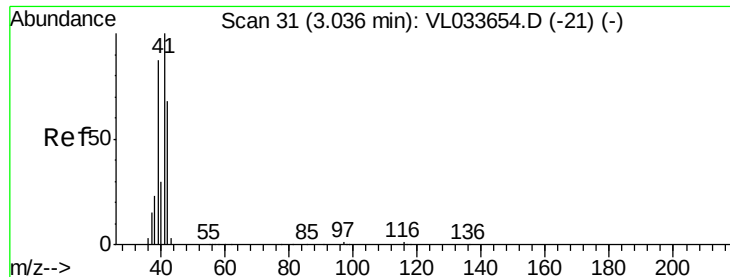
500000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 8.118 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

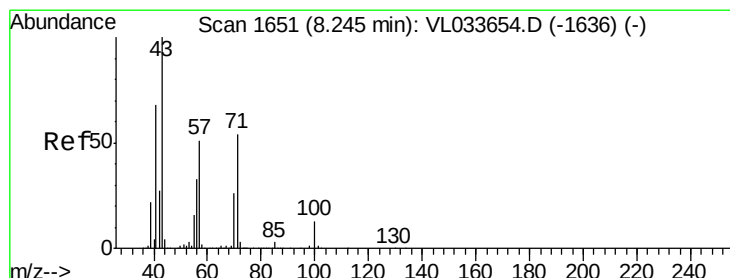
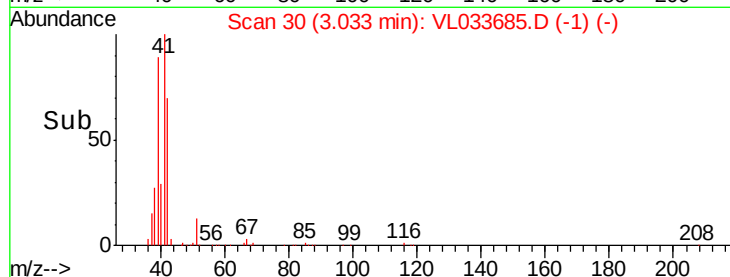
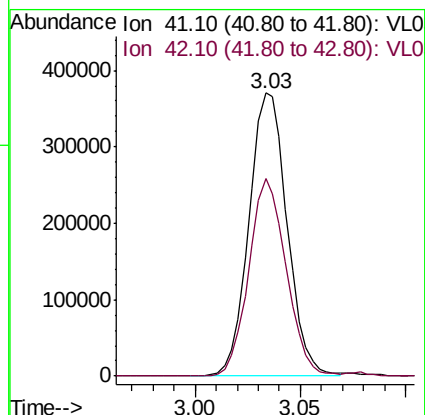
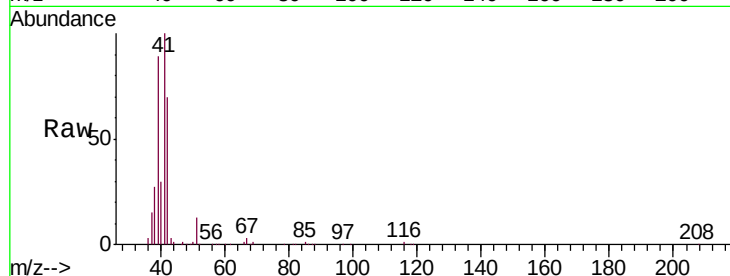
VSTDCCC010

Tgt Ion: 41 Resp: 467054

Ion Ratio Lower Upper

41 100

42 69.5 55.6 83.4



#10

Heptane

Concen: 10.826 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033685.D

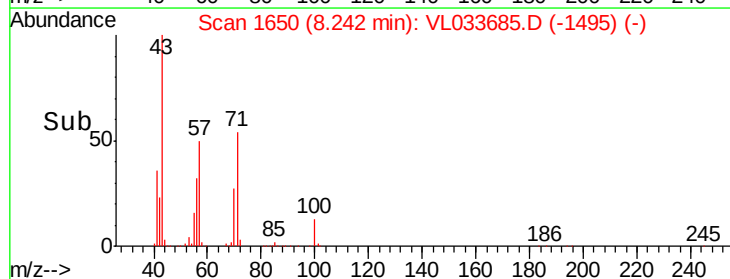
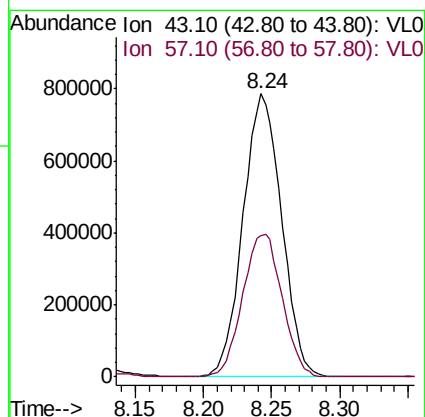
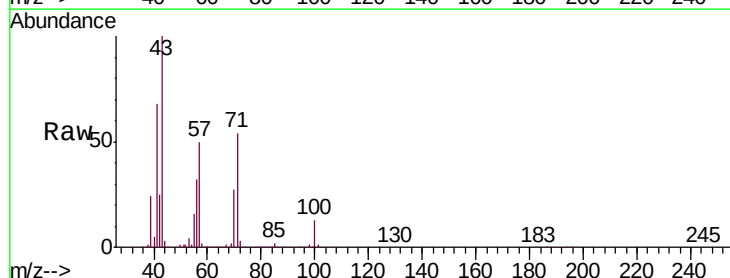
Acq: 14 May 2019 10:03

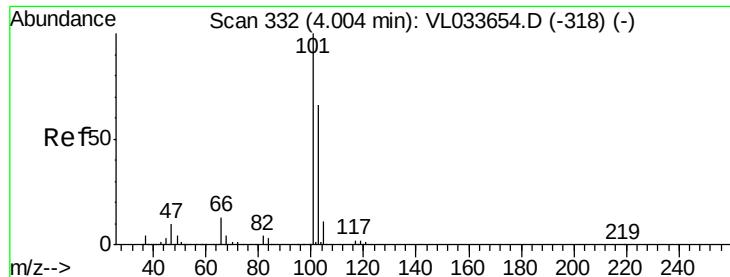
Tgt Ion: 43 Resp: 1537157

Ion Ratio Lower Upper

43 100

57 51.9 41.8 62.6





#11

Trichlorofluoromethane

Concen: 8.440 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

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ClientSampleId :

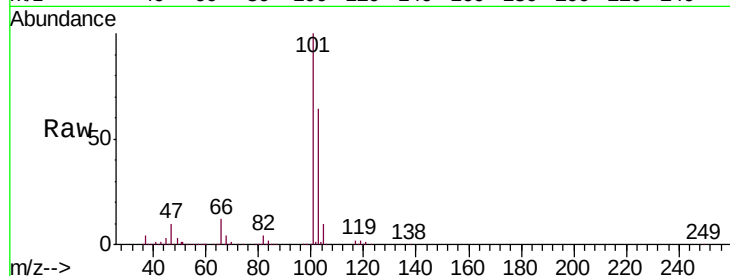
VSTDCCC010

Tgt Ion:101 Resp: 1931719

Ion Ratio Lower Upper

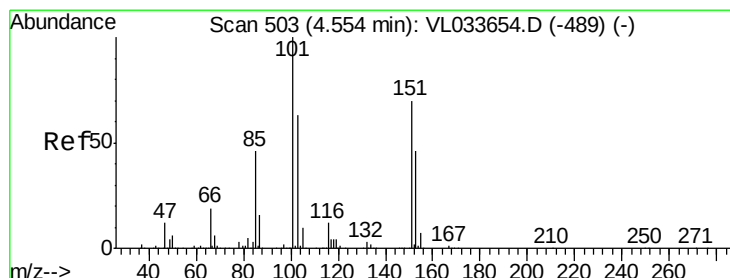
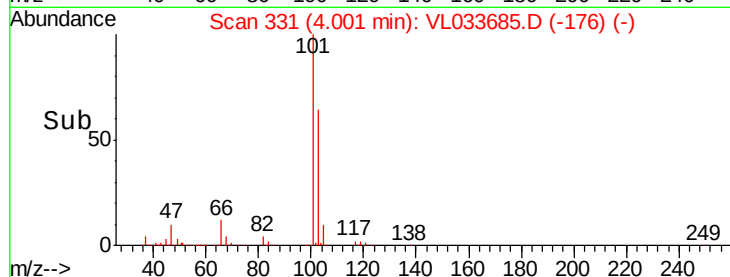
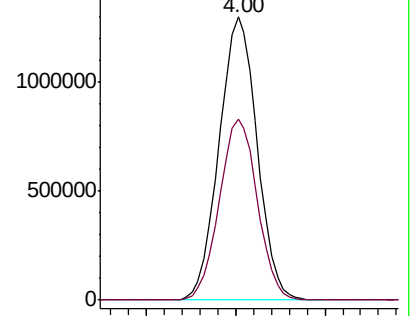
101 100

103 63.9 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

1500000 Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.412 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033685.D

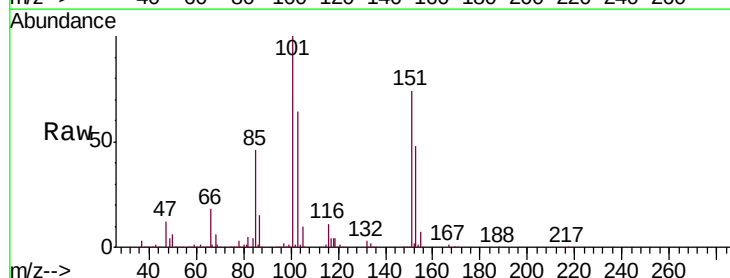
Acq: 14 May 2019 10:03

Tgt Ion:101 Resp: 1294262

Ion Ratio Lower Upper

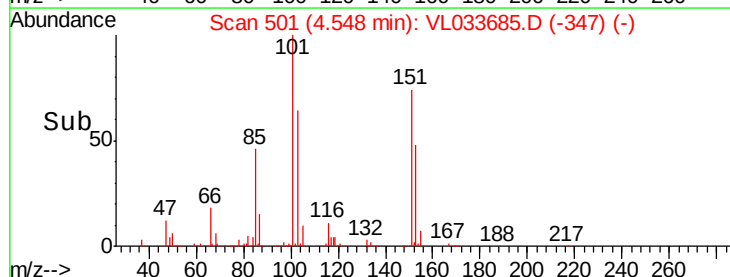
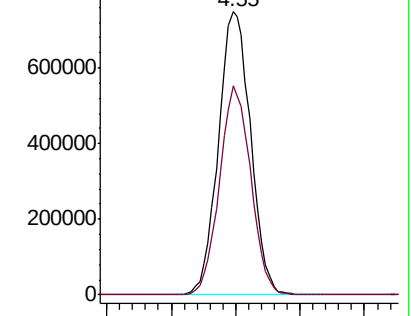
101 100

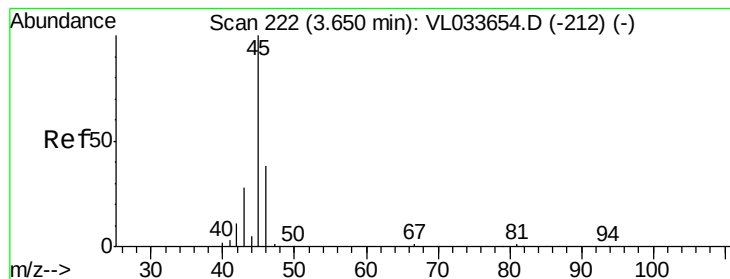
151 72.0 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

800000 Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.004 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

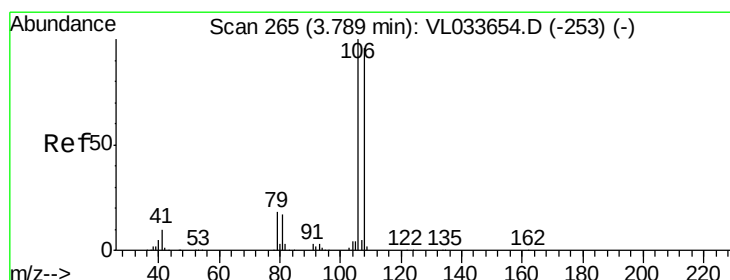
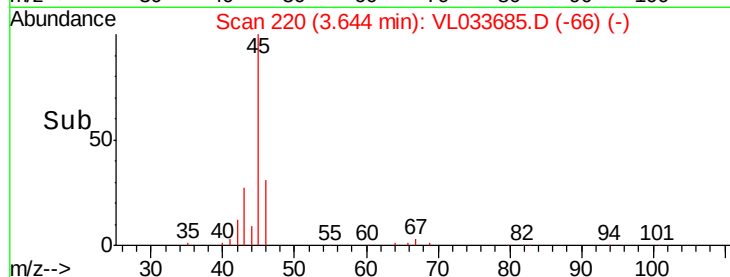
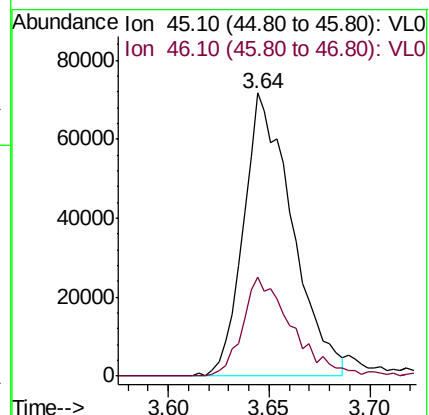
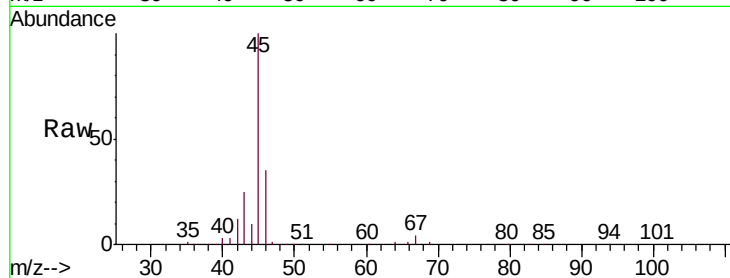
VSTDCCC010

Tgt Ion: 45 Resp: 120961

Ion Ratio Lower Upper

45 100

46 36.7 14.9 59.7



#14

Bromoethene

Concen: 8.293 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

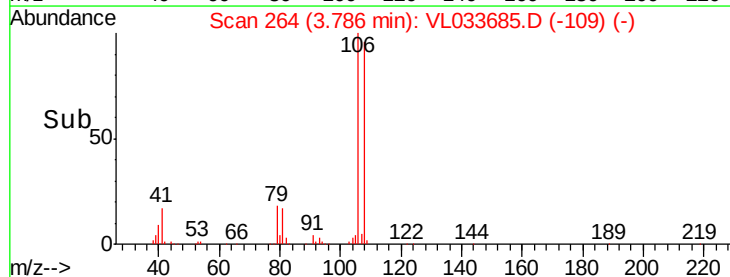
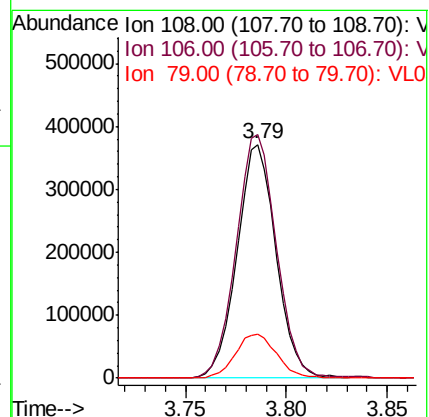
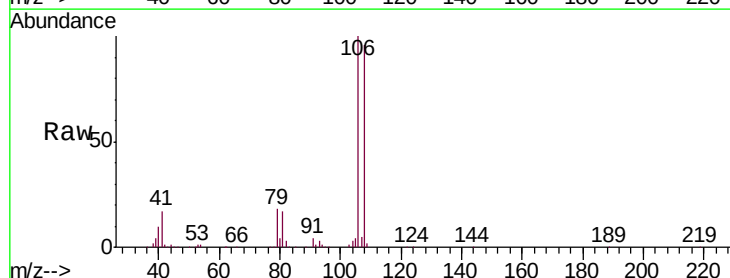
Tgt Ion: 108 Resp: 502964

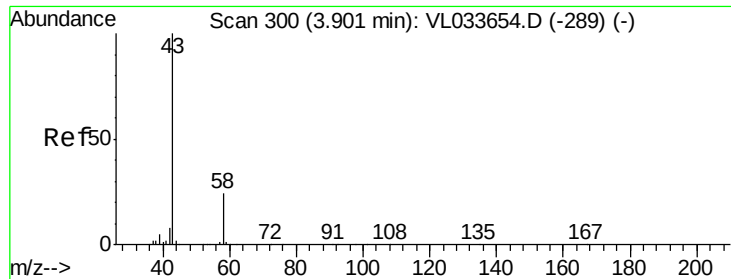
Ion Ratio Lower Upper

108 100

106 108.6 85.7 128.5

79 20.3 15.2 22.8





#15

Acetone

Concen: 7.671 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

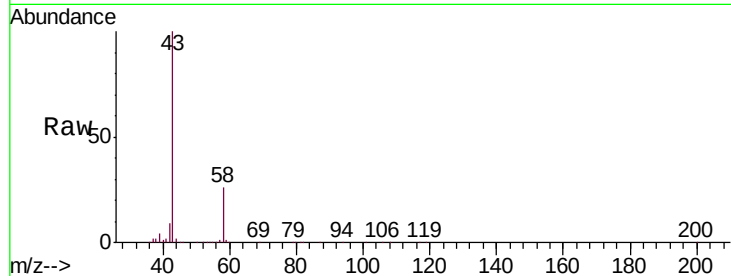
VSTDCCC010

Tgt Ion: 43 Resp: 1192542

Ion Ratio Lower Upper

43 100

58 26.6 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

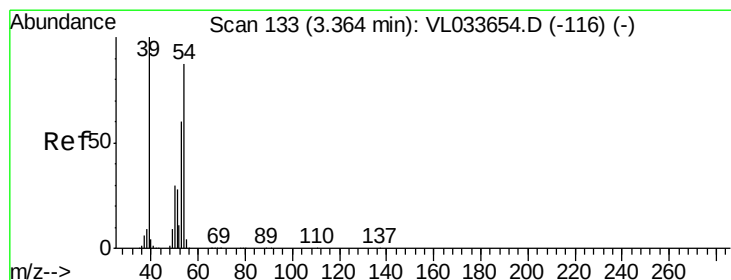
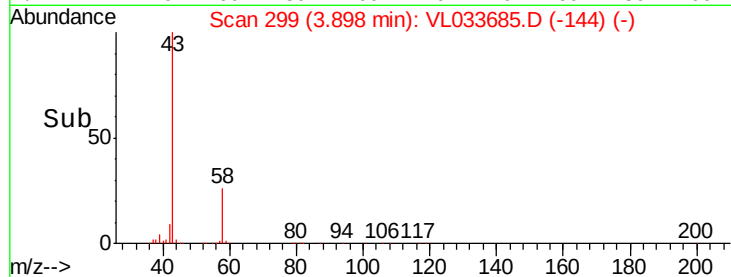
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 8.402 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033685.D

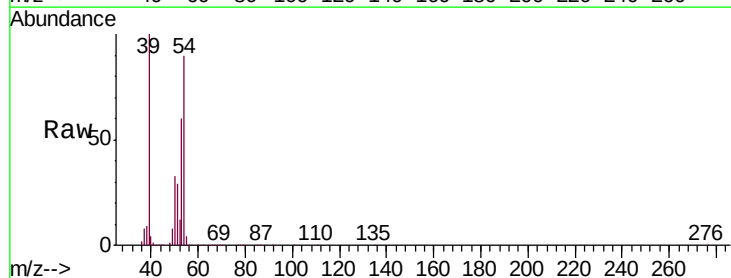
Acq: 14 May 2019 10:03

Tgt Ion: 39 Resp: 560172

Ion Ratio Lower Upper

39 100

54 85.1 67.0 100.4



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

500000

400000

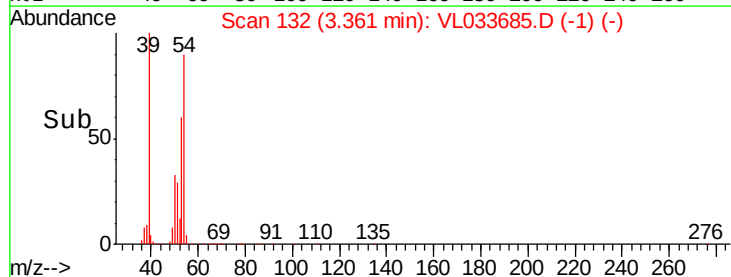
300000

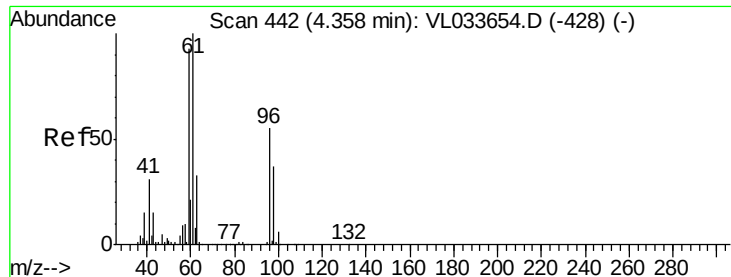
200000

100000

0

Time-->



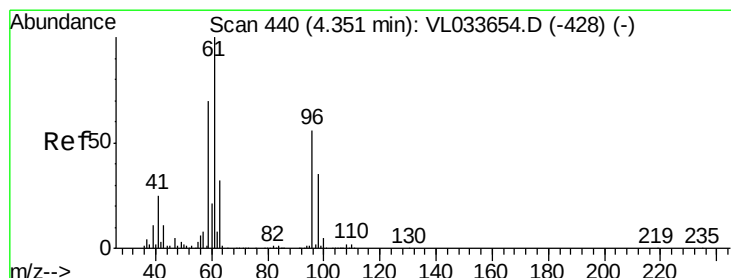
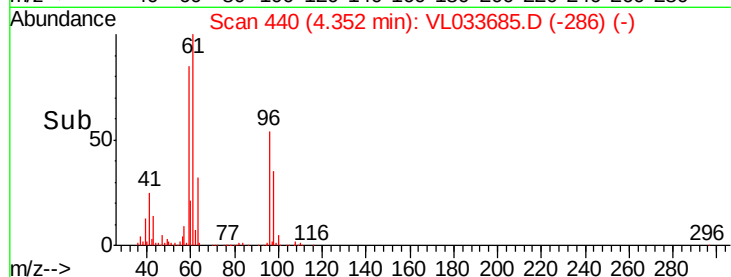
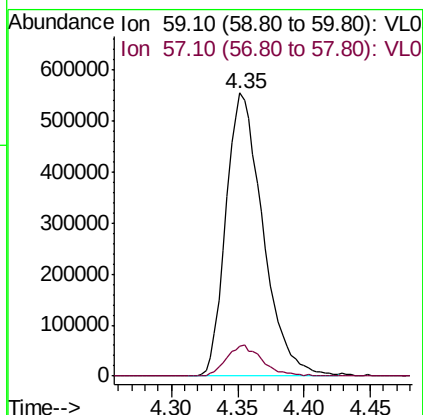
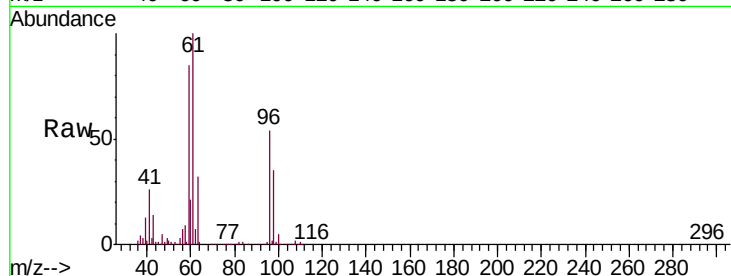


#17

tert-Butyl alcohol
 Concen: 9.105 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.01 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

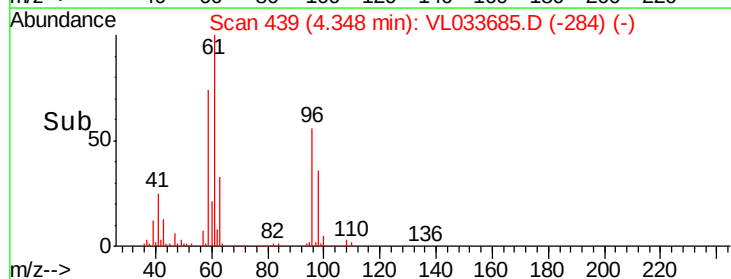
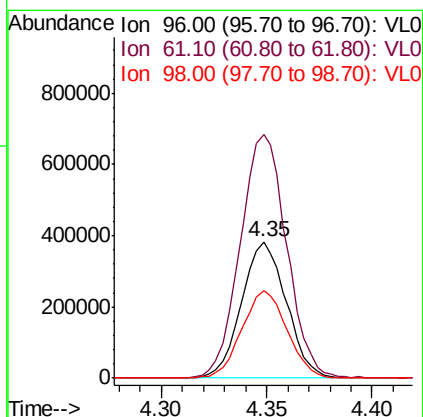
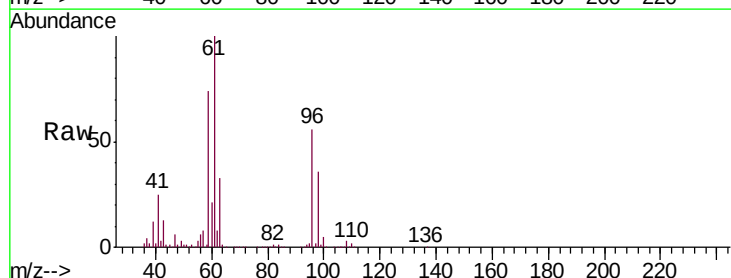
Tgt Ion: 59 Resp: 1075090
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6

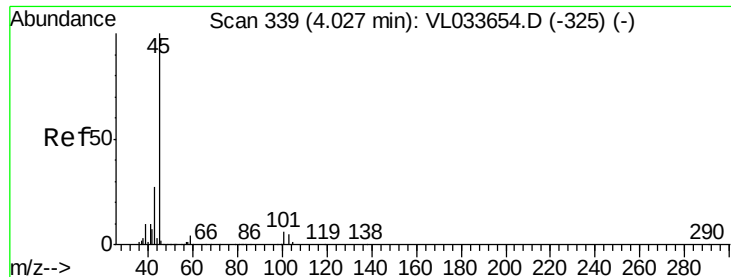


#18

1,1-Dichloroethene
 Concen: 8.488 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 96 Resp: 563846
 Ion Ratio Lower Upper
 96 100
 61 177.9 143.4 215.0
 98 64.1 50.4 75.6





#19

Isopropyl Alcohol

Concen: 8.435 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.01 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

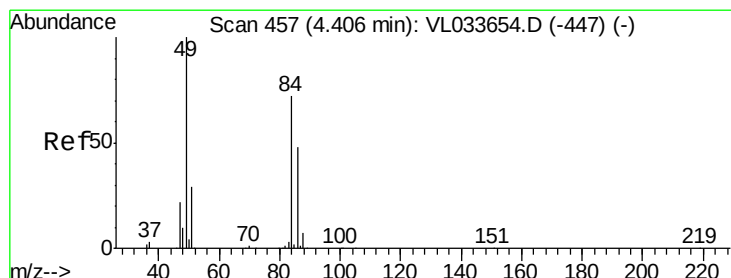
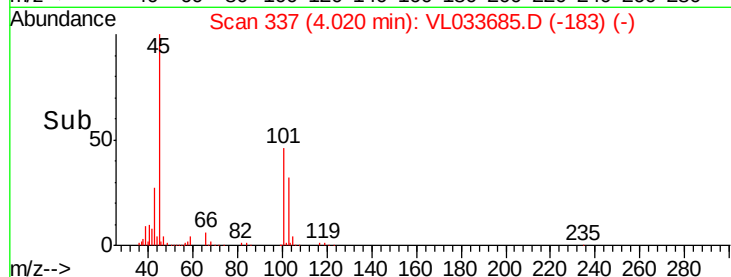
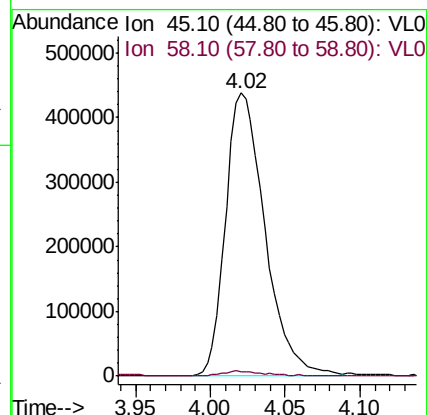
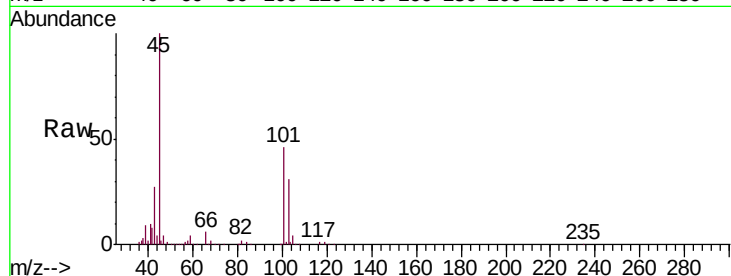
VSTDCCC010

Tgt Ion: 45 Resp: 805658

Ion Ratio Lower Upper

45 100

58 2.2 2.0 3.0



#20

Methylene Chloride

Concen: 8.118 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion: 84 Resp: 479190

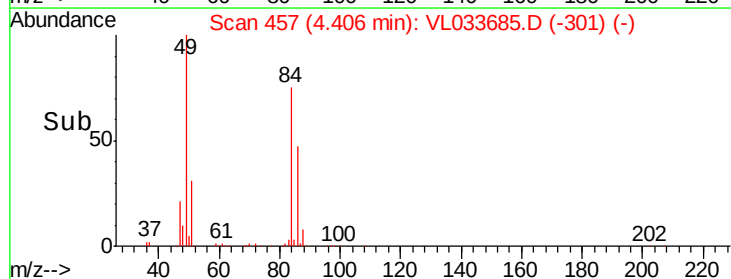
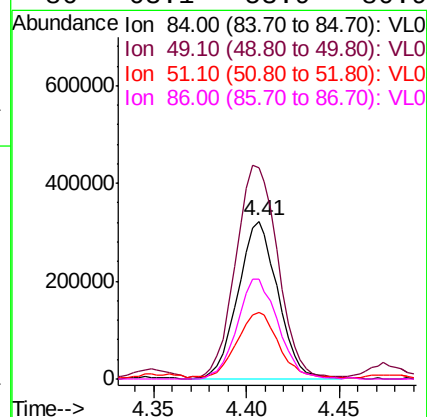
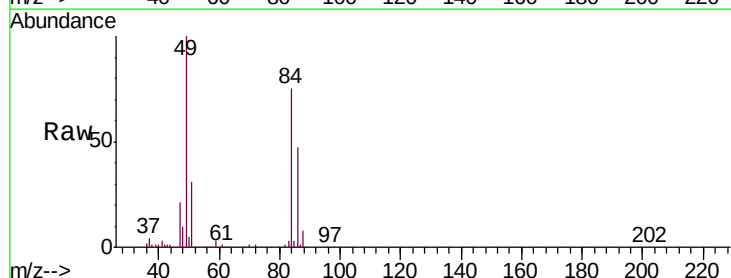
Ion Ratio Lower Upper

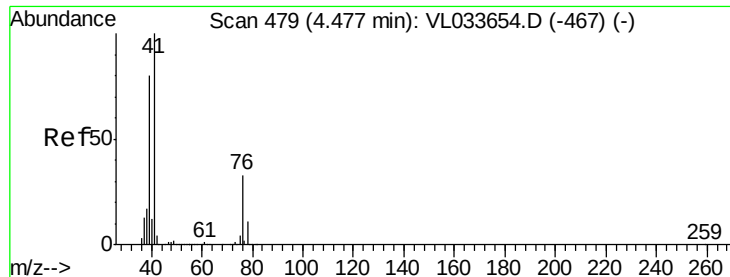
84 100

49 133.0 111.8 167.6

51 41.4 32.3 48.5

86 63.1 53.9 80.9

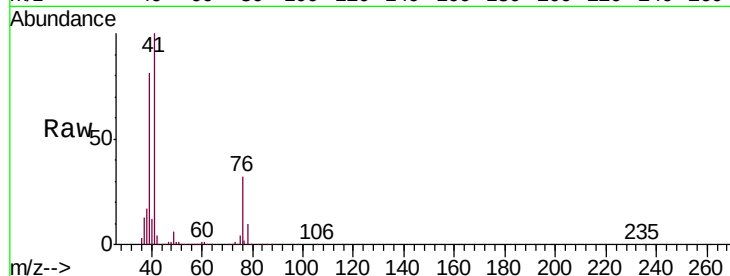




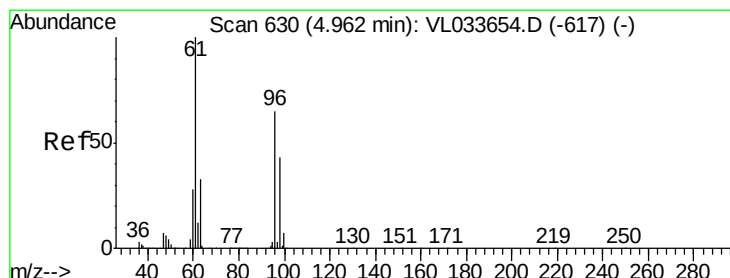
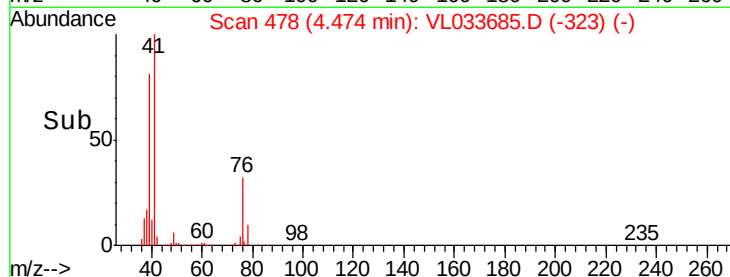
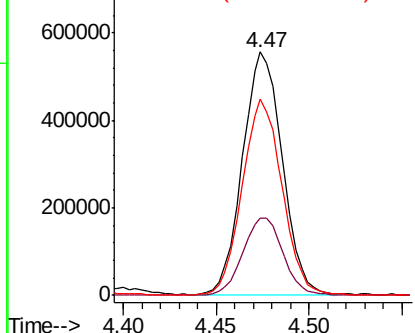
#21
 Allyl Chloride
 Concen: 8.795 ppbv
 RT: 4.47 min Scan# 478
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tgt Ion: 41 Resp: 827599
 Ion Ratio Lower Upper
 41 100
 76 32.4 26.0 39.0
 39 81.3 64.4 96.6

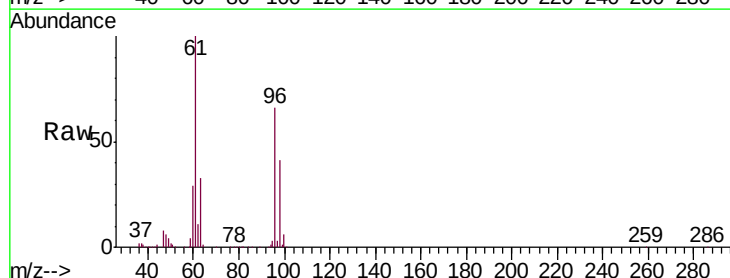


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

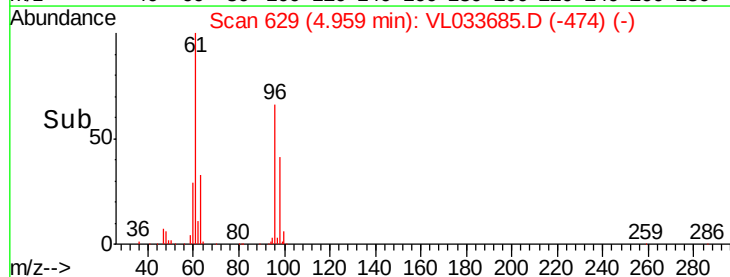
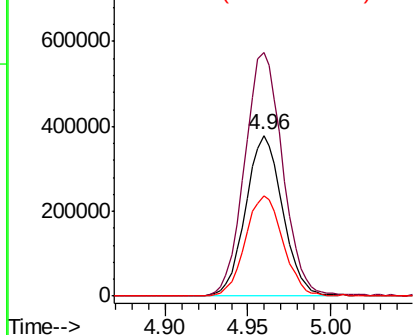


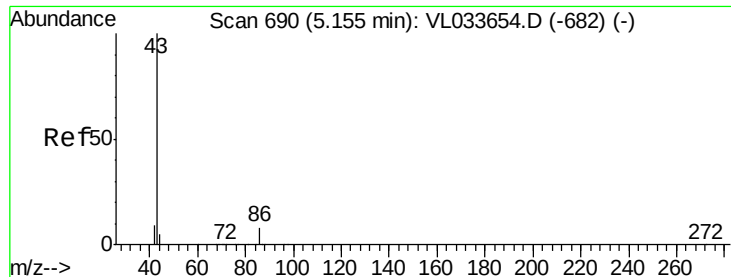
#22
 trans-1,2-Dichloroethene
 Concen: 8.808 ppbv
 RT: 4.96 min Scan# 629
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 96 Resp: 587354
 Ion Ratio Lower Upper
 96 100
 61 151.5 123.1 184.7
 98 62.3 52.6 79.0



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





#23

Vinyl Acetate

Concen: 9.332 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 43 Resp: 1885249

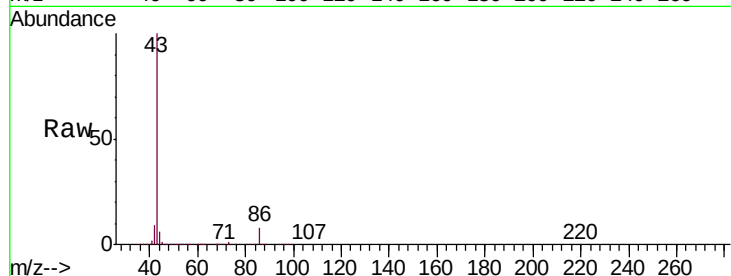
Ion Ratio Lower Upper

43 100

86 7.6 6.0 9.0

42 9.4 8.0 12.0

44 5.6 3.9 5.9

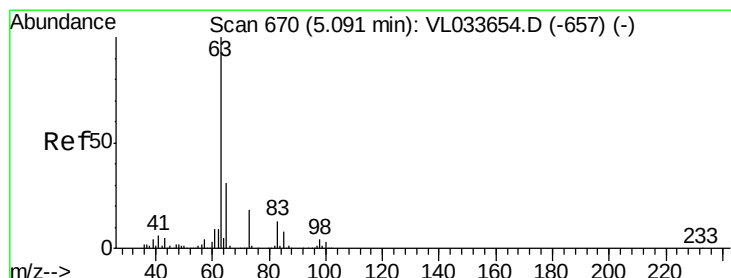
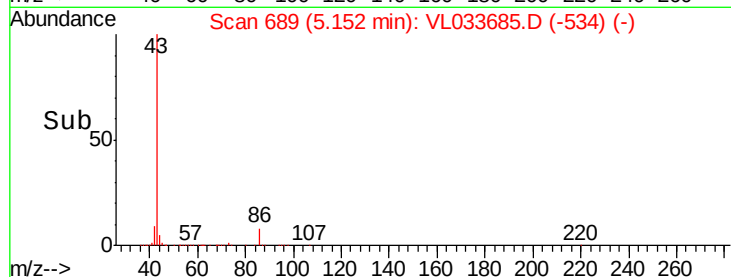
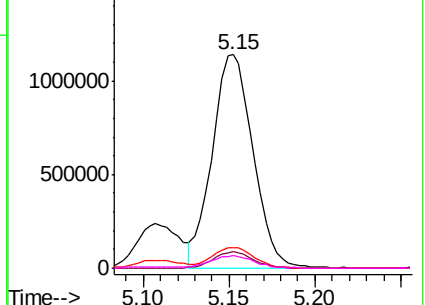


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.531 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

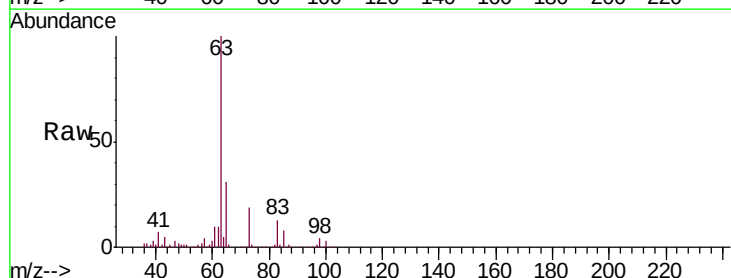
Tgt Ion: 63 Resp: 1303621

Ion Ratio Lower Upper

63 100

98 3.9 2.1 6.2

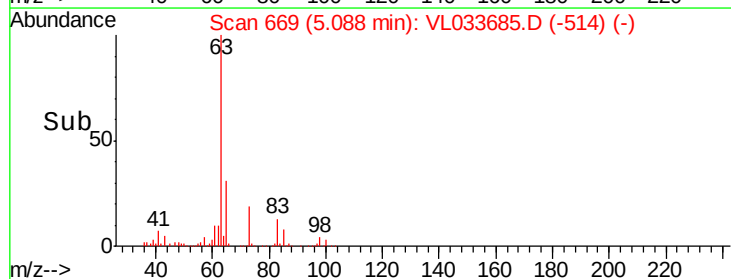
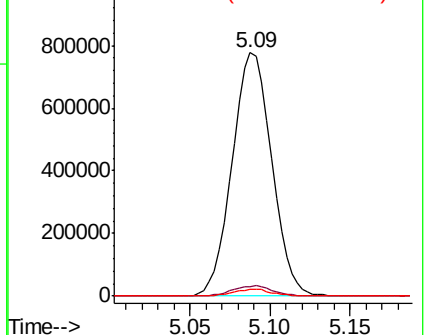
100 2.8 1.5 4.4

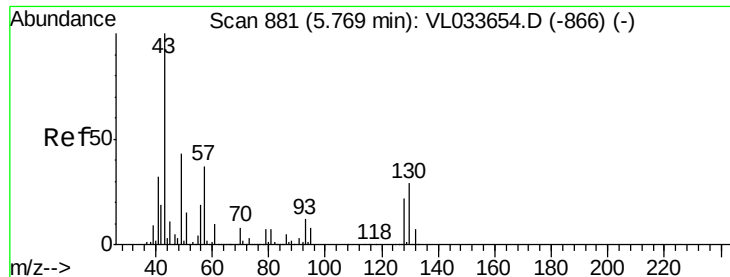


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

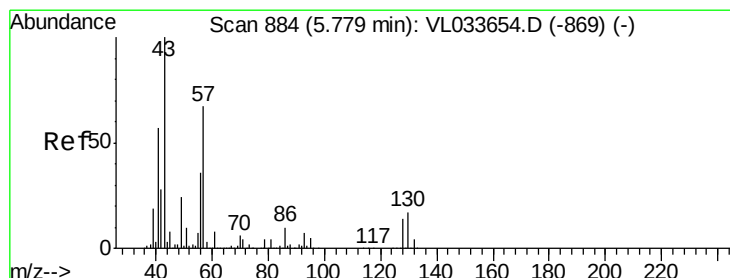
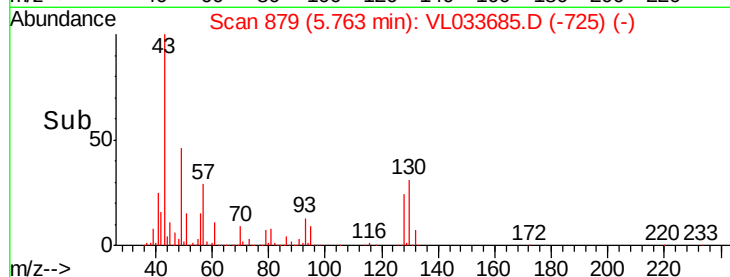
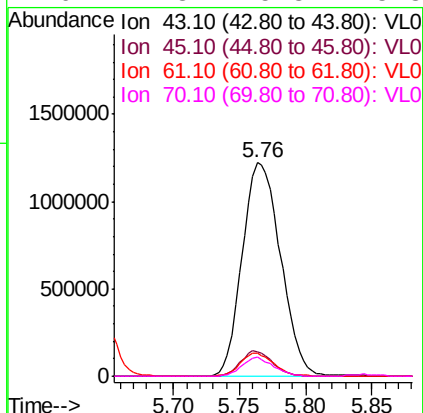
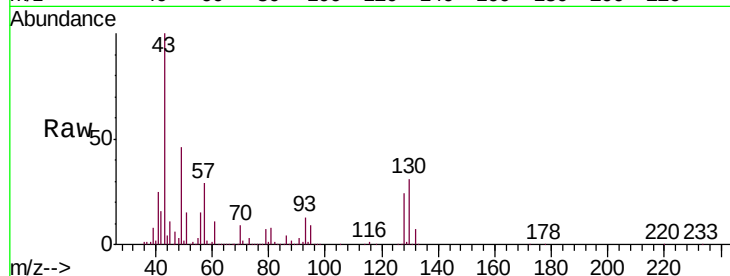




#25
Ethyl Acetate
Concen: 9.747 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.01 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

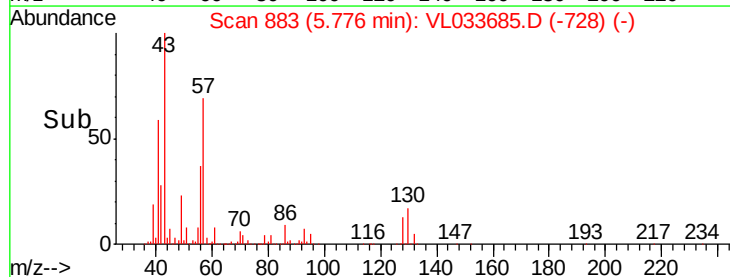
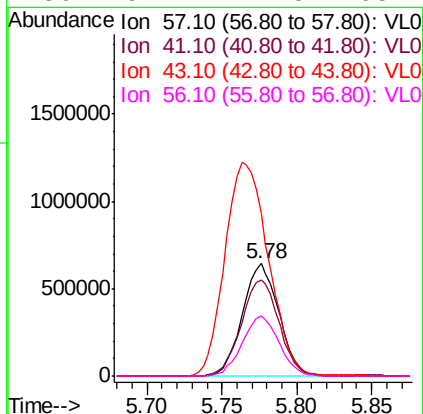
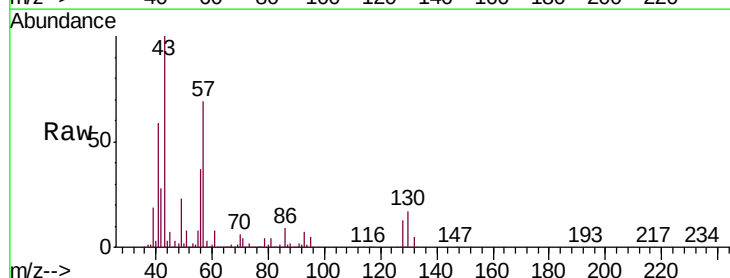
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

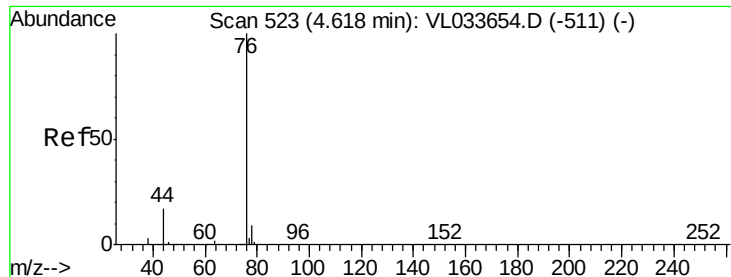
Tgt Ion: 43 Resp: 2465309
Ion Ratio Lower Upper
43 100
45 10.0 8.0 12.0
61 9.4 7.5 11.3
70 7.3 5.8 8.8



#26
Hexane
Concen: 9.954 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 57 Resp: 1082254
Ion Ratio Lower Upper
57 100
41 88.7 69.7 104.5
43 228.9 181.9 272.9
56 54.1 42.5 63.7





#27

Carbon Disulfide

Concen: 9.662 ppbv

RT: 4.62 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

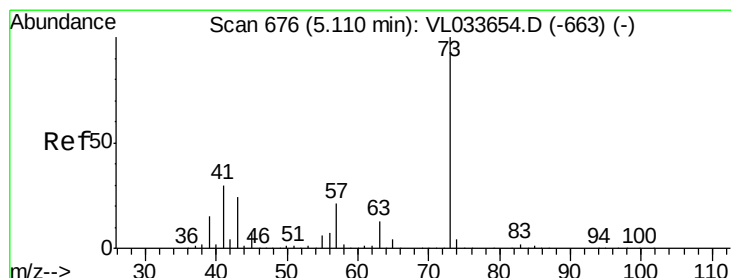
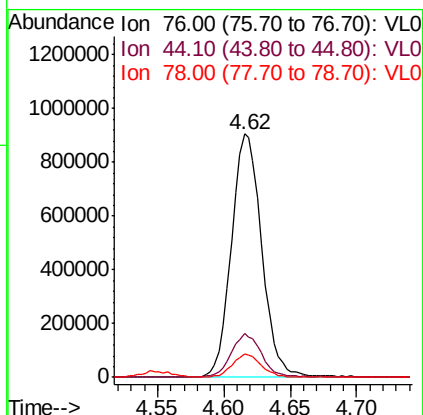
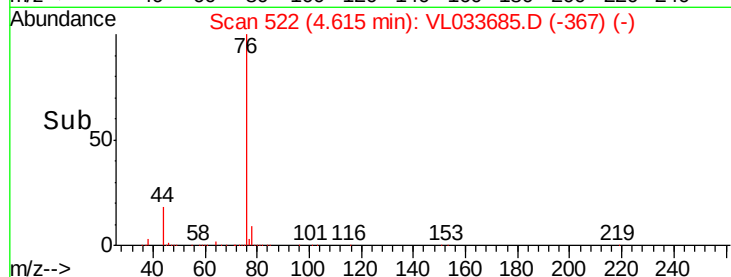
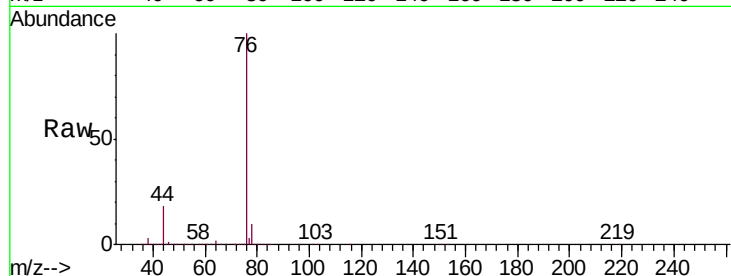
Tgt Ion: 76 Resp: 1436885

Ion Ratio Lower Upper

76 100

44 17.5 14.4 21.6

78 9.0 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 9.175 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033685.D

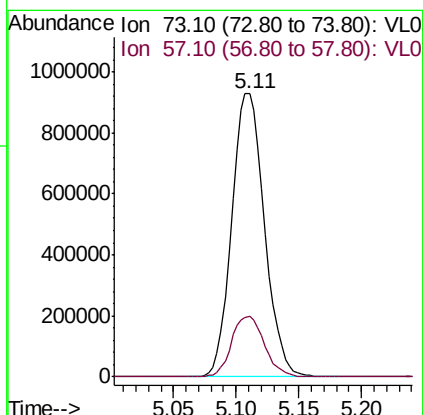
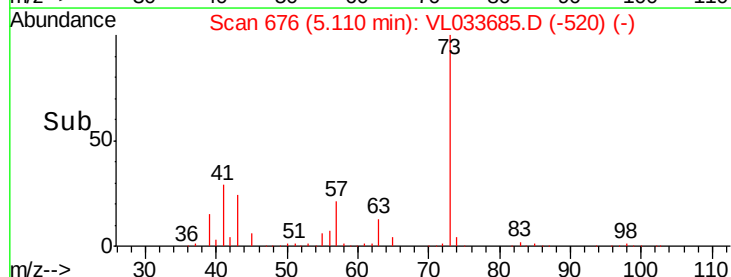
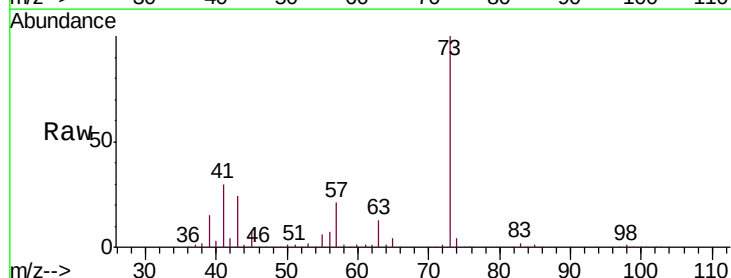
Acq: 14 May 2019 10:03

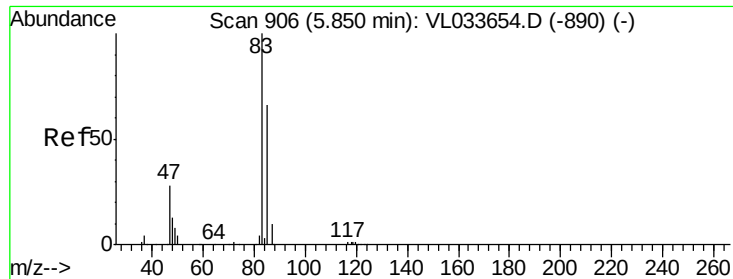
Tgt Ion: 73 Resp: 1680078

Ion Ratio Lower Upper

73 100

57 21.8 17.4 26.0





#29

Chloroform

Concen: 9.517 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

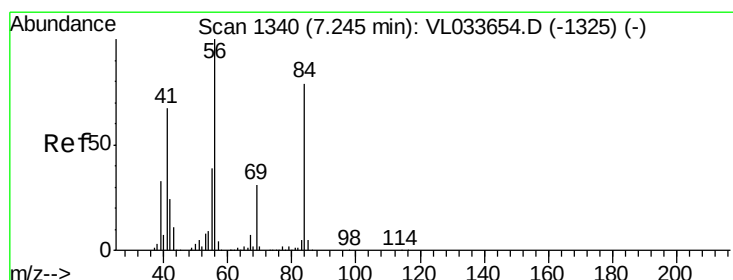
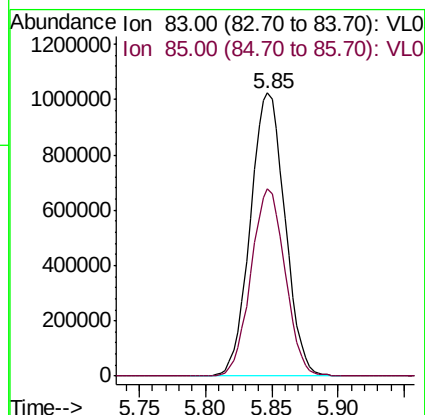
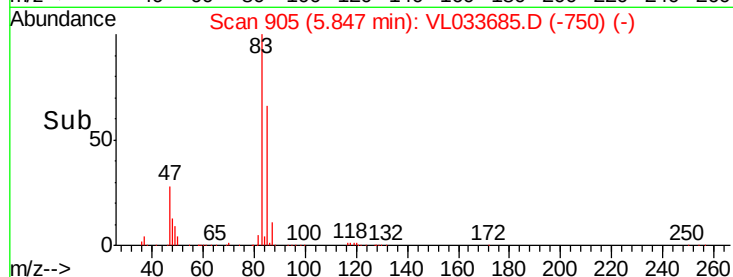
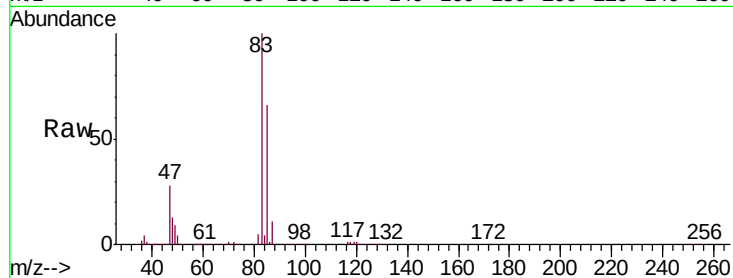
VSTDCCC010

Tgt Ion: 83 Resp: 1860370

Ion Ratio Lower Upper

83 100

85 66.2 52.6 78.8



#30

Cyclohexane

Concen: 9.999 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

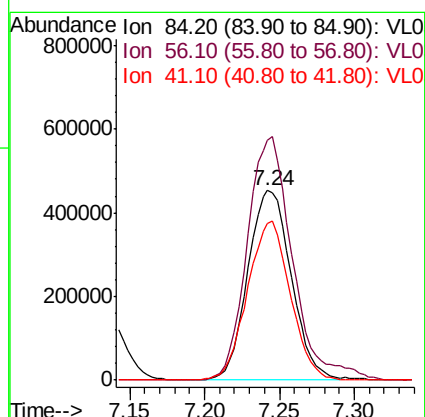
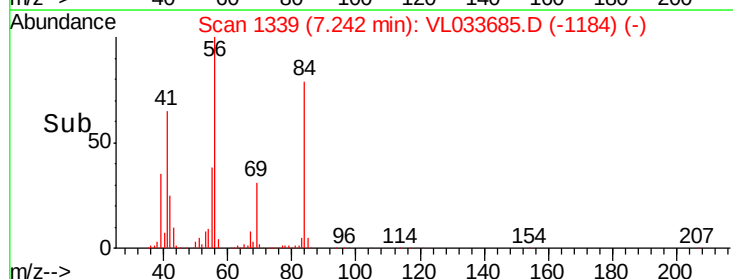
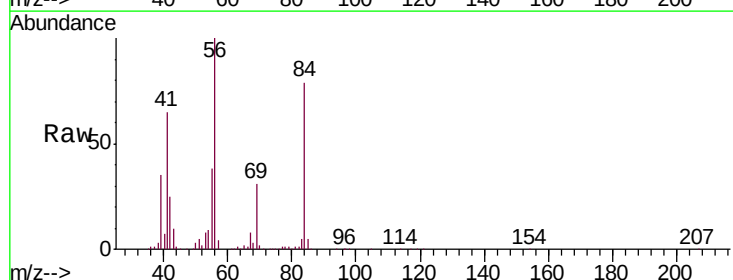
Tgt Ion: 84 Resp: 912927

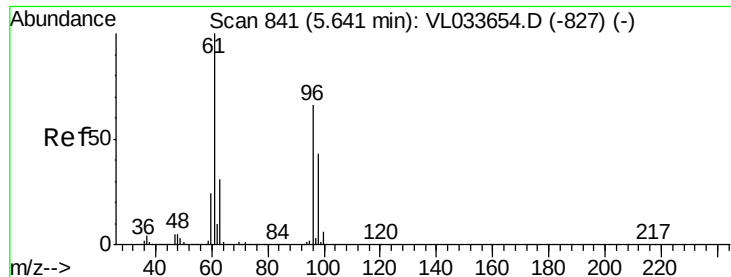
Ion Ratio Lower Upper

84 100

56 134.4 107.0 160.4

41 83.0 66.6 99.8





#31

cis-1,2-Dichloroethene

Concen: 10.449 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

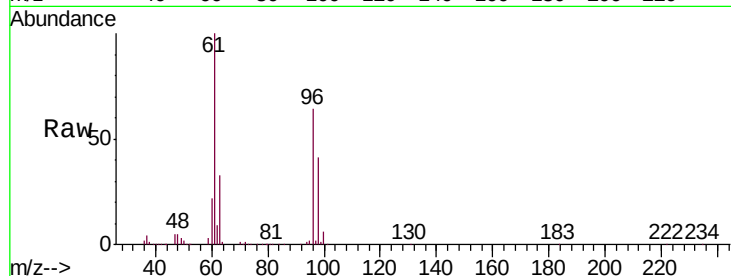
Tgt Ion: 61 Resp: 1130186

Ion Ratio Lower Upper

61 100

96 64.0 53.2 79.8

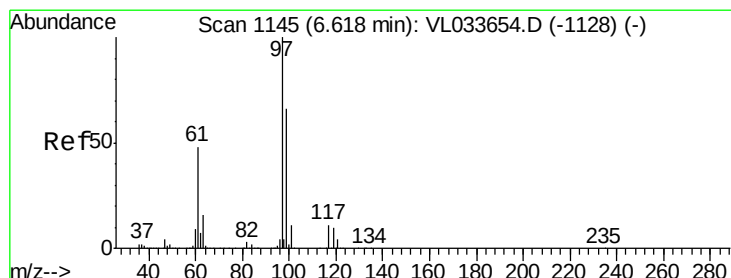
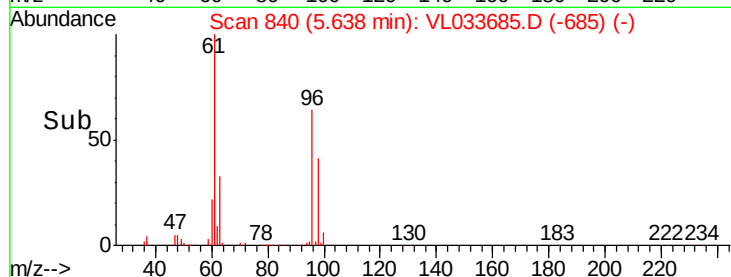
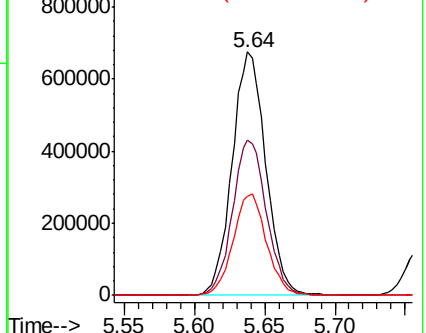
98 40.9 34.2 51.4



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.483 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

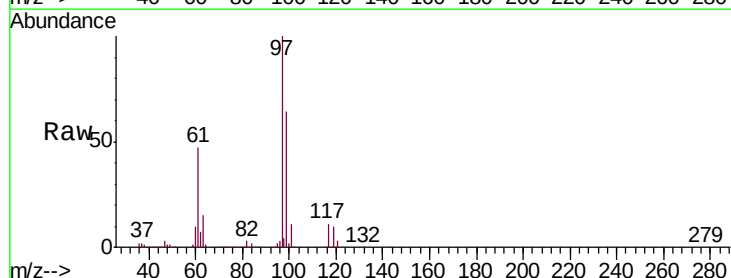
Tgt Ion: 97 Resp: 1914284

Ion Ratio Lower Upper

97 100

99 65.0 51.4 77.2

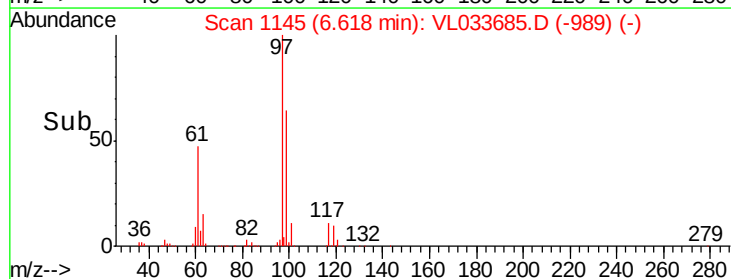
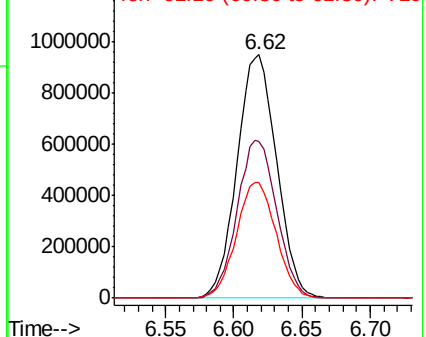
61 47.8 38.5 57.7

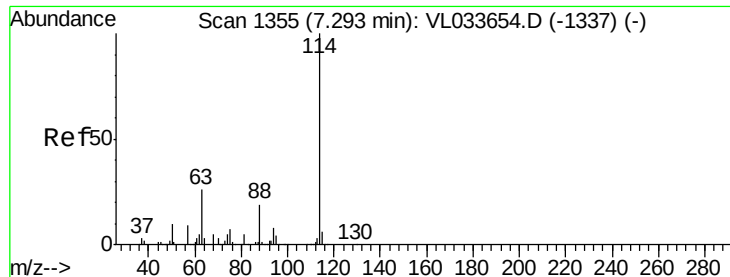


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

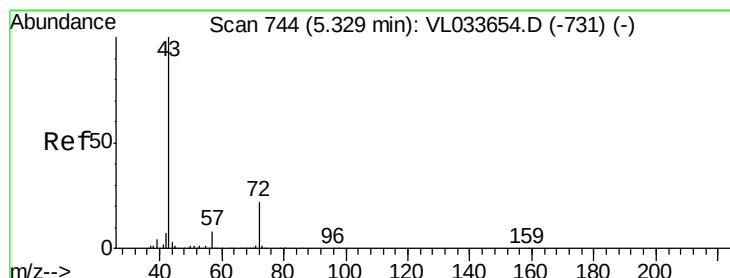
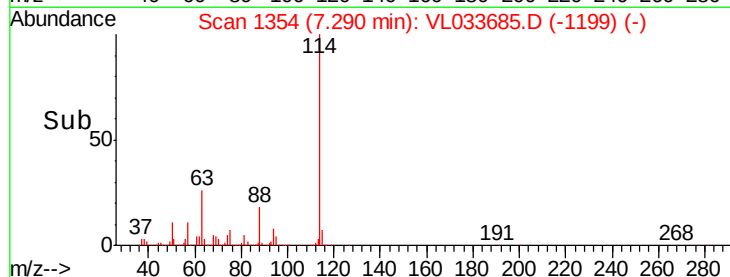
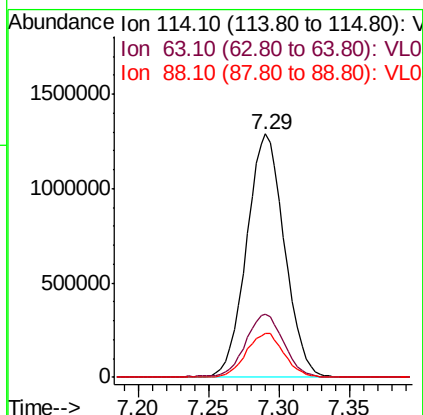
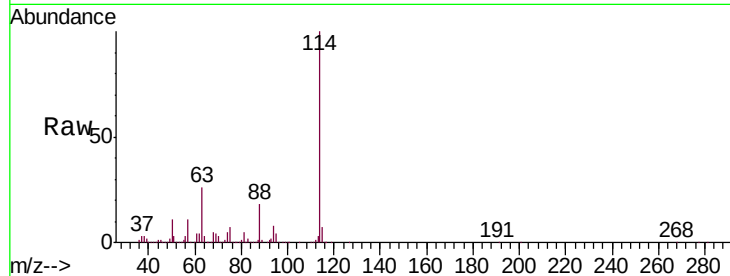




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

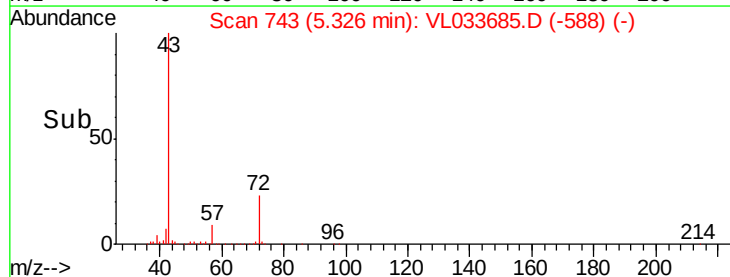
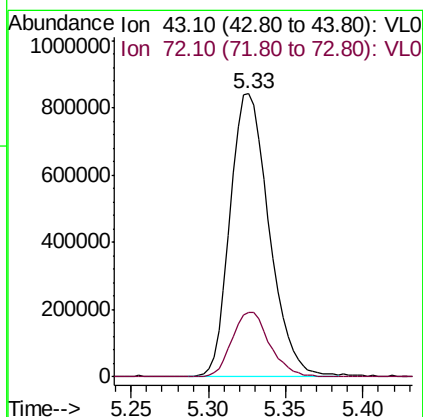
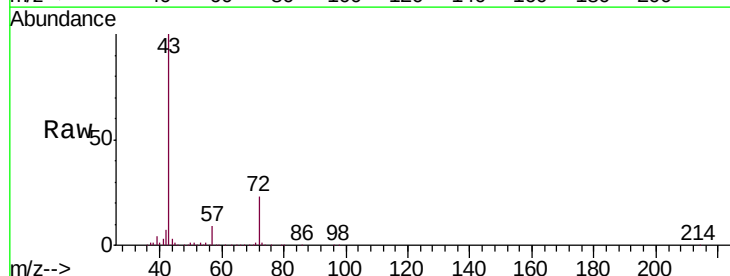
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

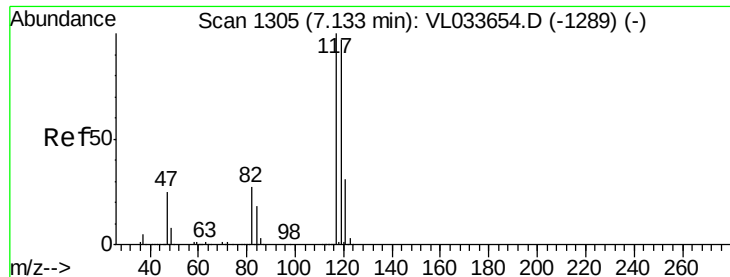
Tgt Ion:114 Resp: 2418338
 Ion Ratio Lower Upper
 114 100
 63 26.6 21.3 31.9
 88 18.1 14.4 21.6



#34
 2-Butanone
 Concen: 9.516 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 43 Resp: 1473677
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.5 26.3

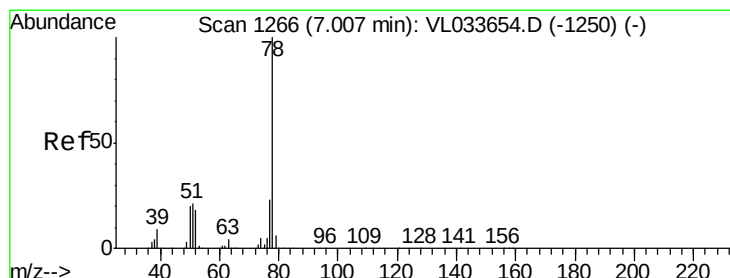
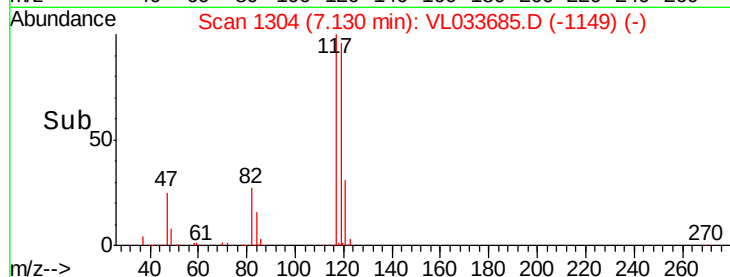
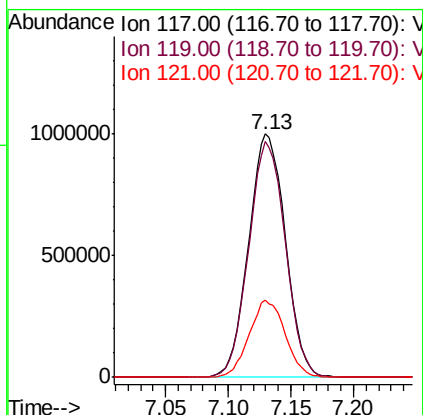
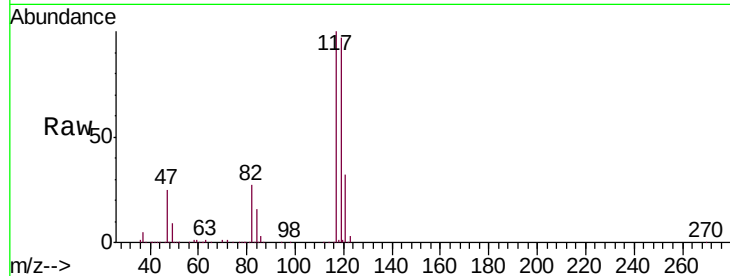




#35
Carbon Tetrachloride
Concen: 10.267 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

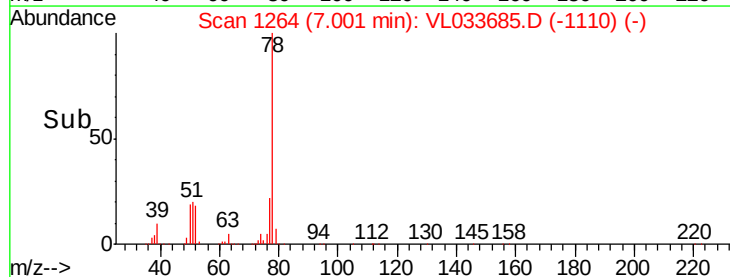
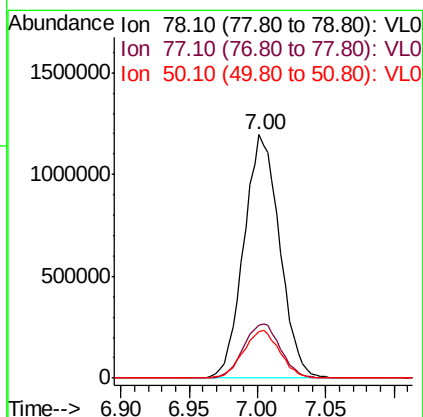
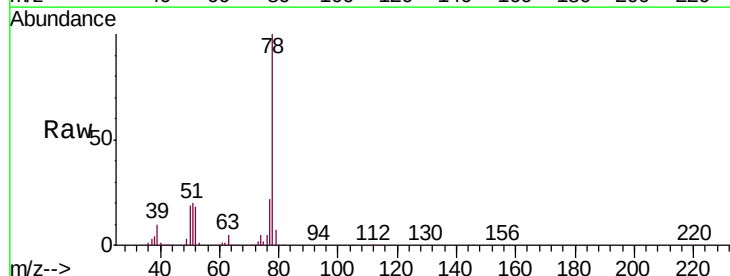
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

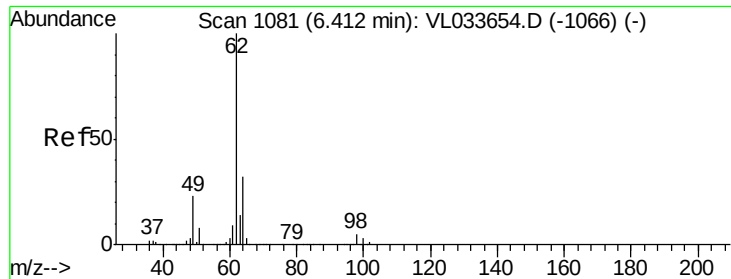
Tgt Ion:117 Resp: 2040589
Ion Ratio Lower Upper
117 100
119 96.8 77.9 116.9
121 31.5 25.0 37.6



#36
Benzene
Concen: 10.037 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033685.D
Acq: 14 May 2019 10:03

Tgt Ion: 78 Resp: 2176592
Ion Ratio Lower Upper
78 100
77 21.6 18.2 27.2
50 19.0 15.8 23.6

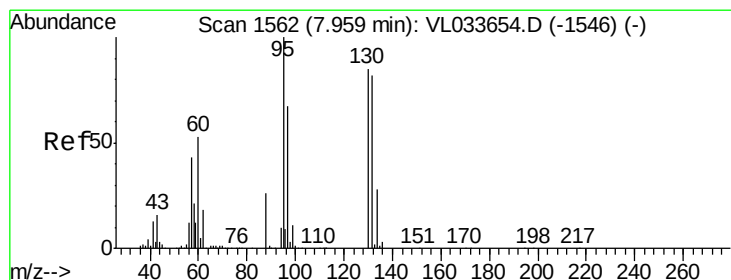
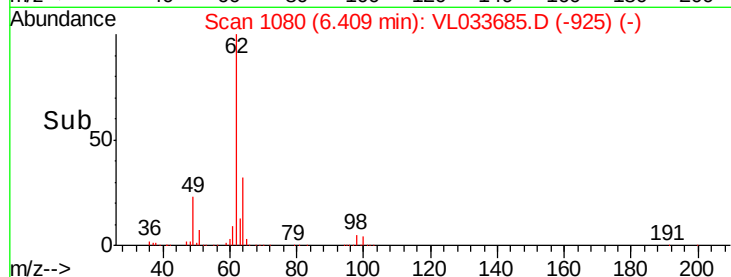
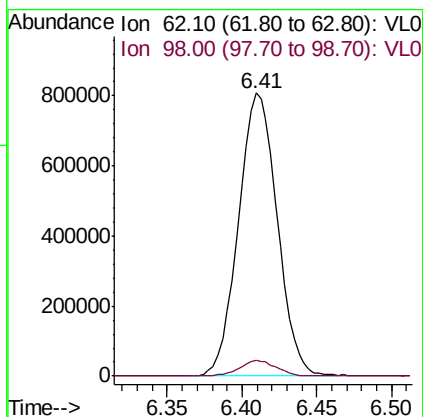
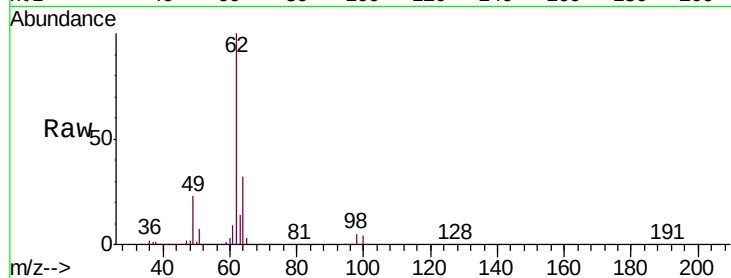




#37
 1,2-Dichloroethane
 Concen: 9.624 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

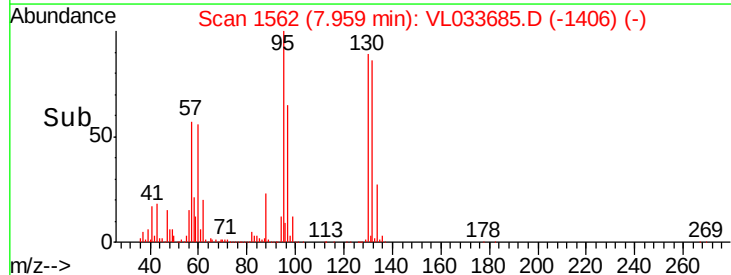
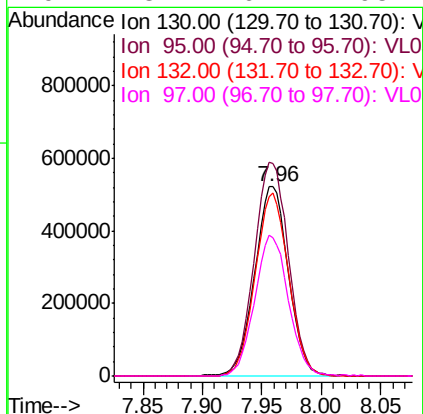
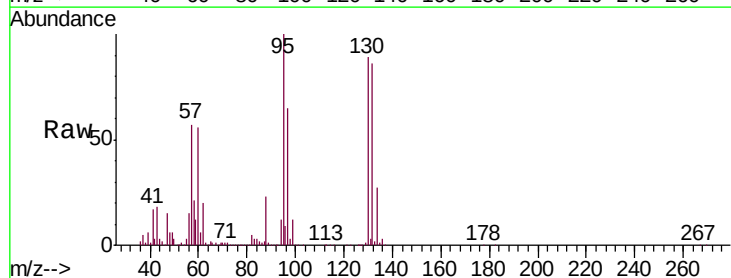
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

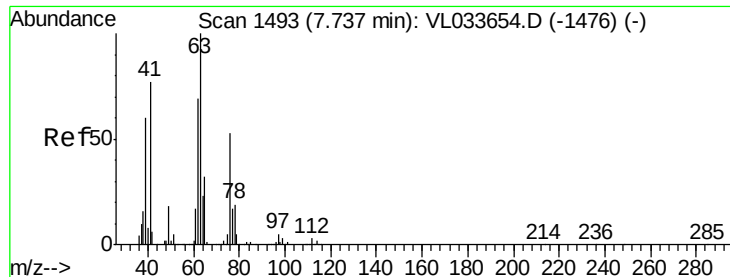
Tgt Ion: 62 Resp: 1456073
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.5 6.7



#38
 Trichloroethene
 Concen: 12.862 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033685.D
 Acq: 14 May 2019 10:03

Tgt Ion: 130 Resp: 1023143
 Ion Ratio Lower Upper
 130 100
 95 112.4 93.4 140.0
 132 96.9 76.2 114.4
 97 73.4 62.2 93.4





#39

1,2-Dichloropropane

Concen: 10.441 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

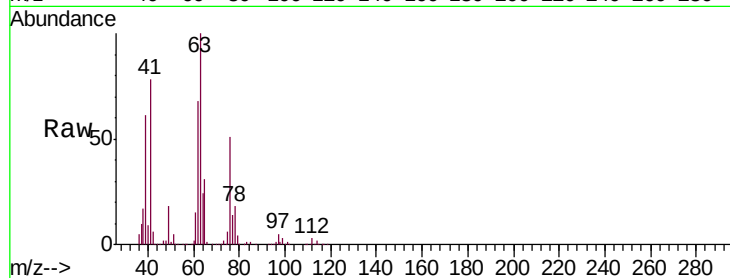
Tgt Ion: 63 Resp: 843867

Ion Ratio Lower Upper

63 100

41 77.6 61.6 92.4

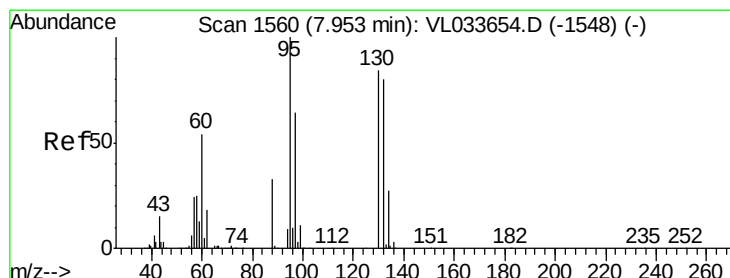
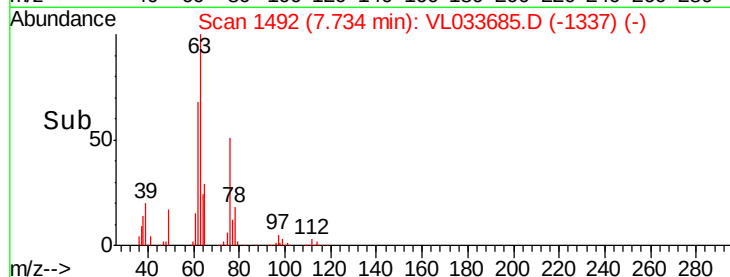
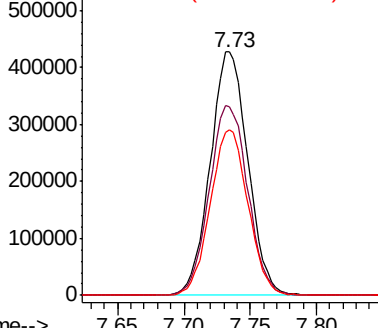
62 68.2 55.0 82.6



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: 10.574 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VL033685.D

Acq: 14 May 2019 10:03

Tgt Ion: 88 Resp: 341544

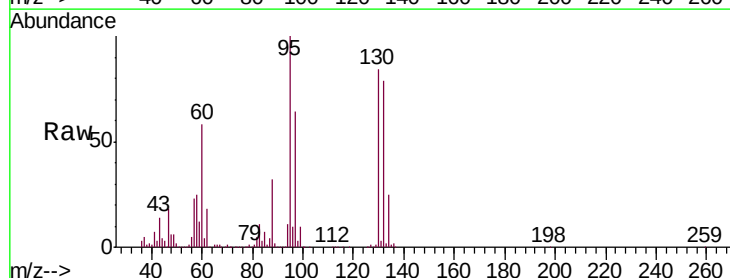
Ion Ratio Lower Upper

88 100

58 136.7 102.3 153.5

43 0.0 206.1 309.1#

57 0.0 910.6 1366.0#



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

