

Data File : VL033897.D
Acq On : 7 Jun 2019 20:19
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Jun 08 04:21:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	985042	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2234807	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2908795	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1947790	8.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	1274646	7.975	ppbv	100
3) Chlorodifluoromethane	3.01	51	1025011	8.839	ppbv	100
4) Chloromethane	3.16	50	581188	8.787	ppbv	100
5) Vinyl Chloride	3.28	62	591386	9.636	ppbv	97
6) Bromomethane	3.51	94	373417	9.158	ppbv	93
7) Chloroethane	3.59	64	222673	9.174	ppbv	99
8) Dichlorotetrafluoroethane	3.21	85	1570459	9.194	ppbv	99
9) Propene	3.03	41	414280	9.548	ppbv	99
10) Heptane	8.24	43	1235344	11.264	ppbv	99
11) Trichlorofluoromethane	3.99	101	1907694	9.250	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1392185	9.988	ppbv	99
13) Ethanol	3.64	45	101426	7.184	ppbv	99
14) Bromoethene	3.78	108	505894	9.740	ppbv	100
15) Acetone	3.89	43	1180403	8.216	ppbv	98
16) 1,3-Butadiene	3.35	39	533144	9.750	ppbv	99
17) tert-Butyl alcohol	4.35	59	1222699	10.887	ppbv	100
18) 1,1-Dichloroethene	4.35	96	606632	10.304	ppbv	94
19) Isopropyl Alcohol	4.01	45	856817	10.440	ppbv	100
20) Methylene Chloride	4.40	84	515418	9.200	ppbv	98
21) Allyl Chloride	4.47	41	873132	10.699	ppbv	99
22) trans-1,2-Dichloroethene	4.95	96	629504	10.144	ppbv	97
23) Vinyl Acetate	5.15	43	1773442	10.620	ppbv	99
24) 1,1-Dichloroethane	5.08	63	1301118	10.018	ppbv	99
25) Ethyl Acetate	5.76	43	2227672	10.182	ppbv	100
26) Hexane	5.77	57	970316	9.741	ppbv	99
27) Carbon Disulfide	4.61	76	1545520	11.167	ppbv	99
28) Methyl tert-Butyl Ether	5.10	73	1608406	10.677	ppbv	100
29) Chloroform	5.84	83	1714368	10.048	ppbv	96
30) Cyclohexane	7.24	84	788794	11.207	ppbv	98
31) cis-1,2-Dichloroethene	5.63	61	985758	11.285	ppbv	99
32) 1,1,1-Trichloroethane	6.61	97	1761819	10.705	ppbv	99
34) 2-Butanone	5.32	43	1410116	11.185	ppbv	100
35) Carbon Tetrachloride	7.12	117	1904072	11.028	ppbv	96
36) Benzene	6.99	78	1904484	11.156	ppbv	100
37) 1,2-Dichloroethane	6.40	62	1348956	10.685	ppbv	99
38) Trichloroethene	7.95	130	820365	12.342	ppbv	98
39) 1,2-Dichloropropane	7.73	63	722784	10.970	ppbv	94
40) 1,4-Dioxane	7.94	88	335524	12.486	ppbv	96
41) Tetrahydrofuran	6.14	42	772321	12.069	ppbv	98
42) Bromodichloromethane	7.91	83	1873931	11.107	ppbv	100
43) Methyl Methacrylate	8.13	69	785894	12.309	ppbv	96

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3382250	11.141	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1105934	13.201	ppbv	98
46) cis-1,3-Dichloropropene	8.82	75	1243694	12.958	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	844132	10.747	ppbv	95
48) Dibromochloromethane	10.44	129	1627793	11.532	ppbv	98
49) Bromoform	13.19	173	1458329	11.703	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2195459	11.678	ppbv	100
51) 2-Hexanone	10.26	43	1785893	12.165	ppbv #	99
52) Tetrachloroethene	11.36	164	788937	13.134	ppbv	97
53) Toluene	9.93	91	2321048	12.286	ppbv	99
54) 1,2-Dibromoethane	10.75	107	1347225	11.378	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1076870	8.475	ppbv	99
57) Chlorobenzene	12.29	112	1833671	8.417	ppbv	99
58) Ethyl Benzene	12.85	91	3249131	9.907	ppbv	96
59) m/p-Xylene	13.14	91	2876570	9.646	ppbv #	37
60) o-Xylene	13.84	91	2809519	9.124	ppbv	100
61) Styrene	13.67	104	2019187	10.133	ppbv	99
62) Isopropylbenzene	14.81	105	3755372	9.049	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	1982981	8.555	ppbv	99
64) n-propylbenzene	15.71	120	972098	9.147	ppbv	100
65) tert-Butylbenzene	16.90	119	3539733	9.218	ppbv	100
66) Benzyl Chloride	17.15	91	1883314	9.678	ppbv	99
67) sec-Butylbenzene	17.44	105	4885187	9.068	ppbv	100
69) p-Isopropyltoluene	17.80	119	4030265	8.992	ppbv	100
70) n-Butylbenzene	18.70	91	4175561	8.505	ppbv	100
71) 2-Chlorotoluene	15.61	91	2870650	9.389	ppbv	99
72) 4-Ethyltoluene	15.99	105	3294706	9.403	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3187043	9.234	ppbv	98
74) 1,2,4-Trimethylbenzene	16.91	105	3391755	8.526	ppbv	99
75) 1,3-Dichlorobenzene	17.15	146	1937310	7.776	ppbv	99
76) 1,4-Dichlorobenzene	17.29	146	1898201	8.298	ppbv	100
77) 1,2-Dichlorobenzene	17.97	146	1858779	8.085	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1148395	6.395	ppbv	99
79) Naphthalene	22.40	128	2603074	8.186	ppbv	98
80) Naphthalene,2-methyl-	25.10	142	895730	7.060	ppbv	99
81) 1,2,4-Trichlorobenzene	22.12	180	1505063	7.497	ppbv	100

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

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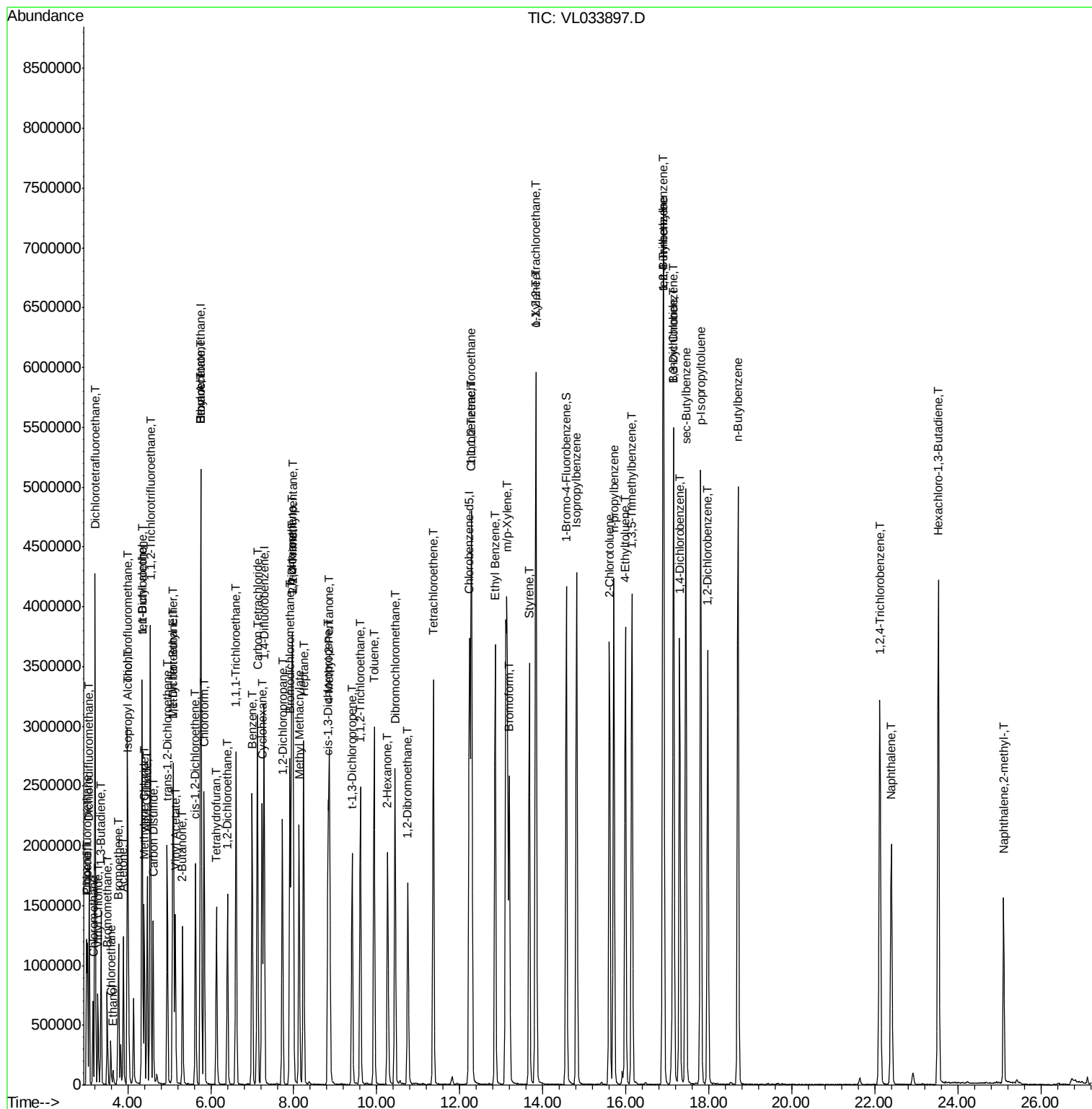
Quant Time: Jun 08 04:21:19 2019

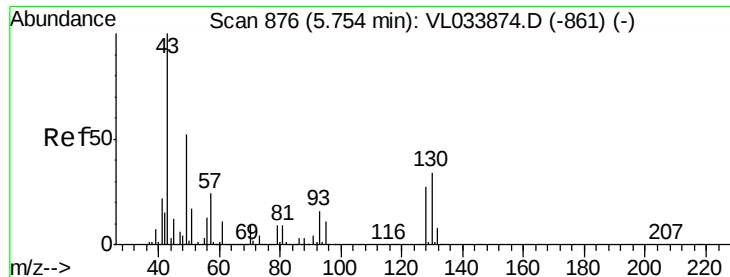
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL060719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jun 07 08:53:27 2019

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

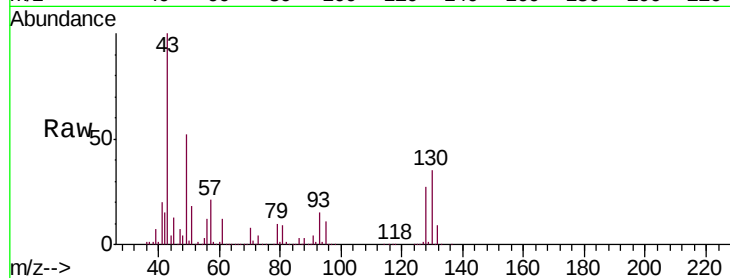
Tgt Ion: 49 Resp: 985042

Ion Ratio Lower Upper

49 100

128 49.9 25.5 76.5

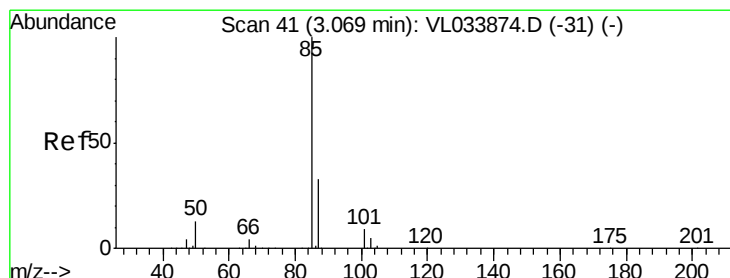
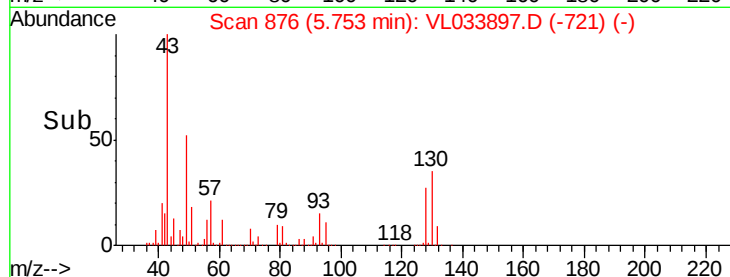
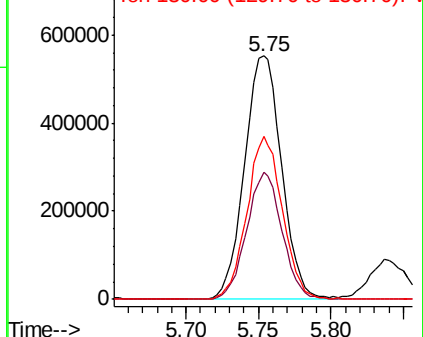
130 64.1 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.975 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033897.D

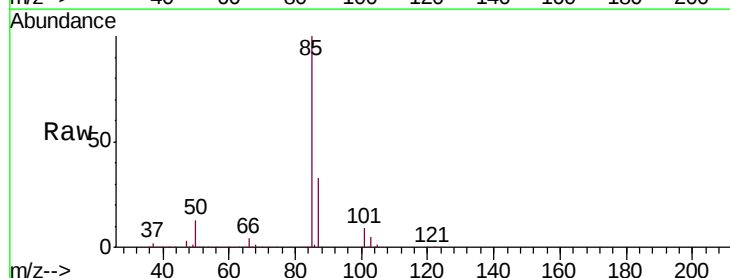
Acq: 7 Jun 2019 20:19

Tgt Ion: 85 Resp: 1274646

Ion Ratio Lower Upper

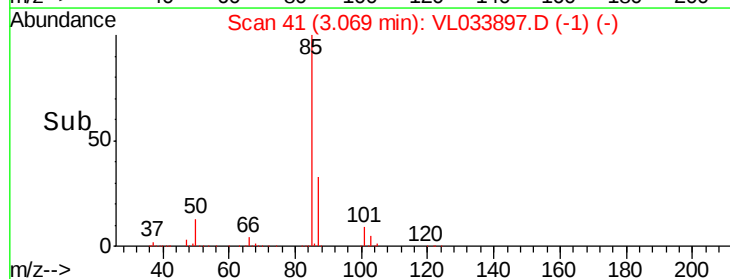
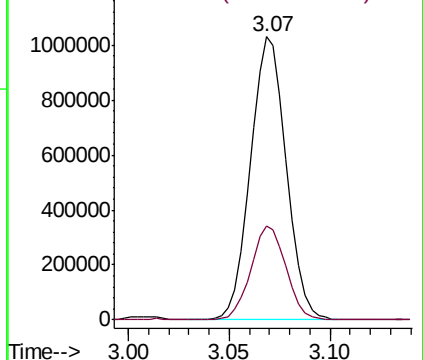
85 100

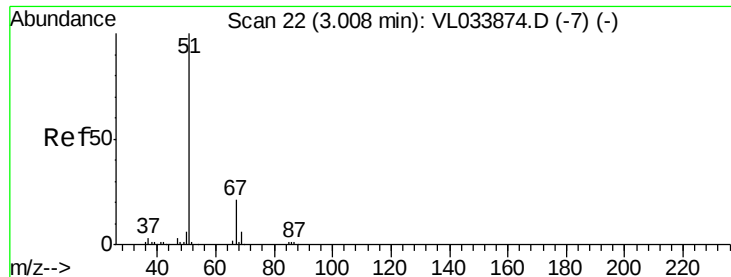
87 33.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.839 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

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ClientSampleId :

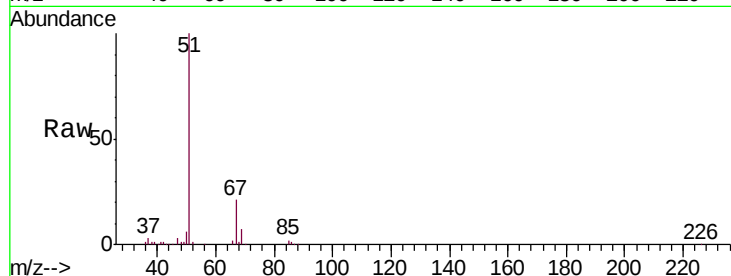
VSTDCCC010EC

Tgt Ion: 51 Resp: 1025011

Ion Ratio Lower Upper

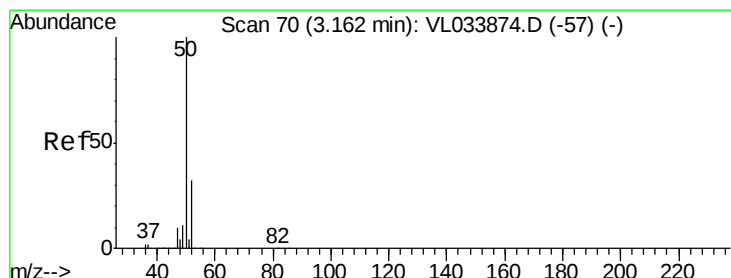
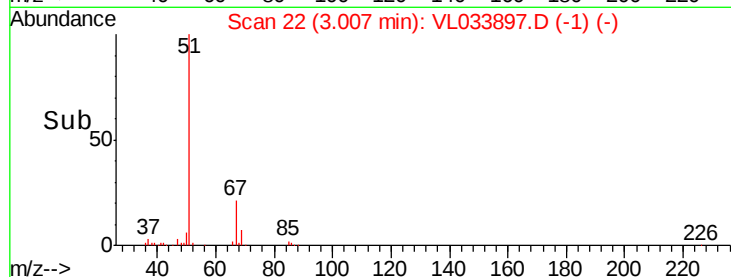
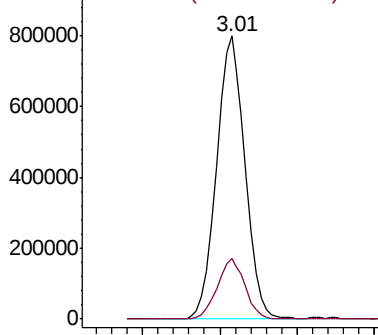
51 100

67 20.7 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.787 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033897.D

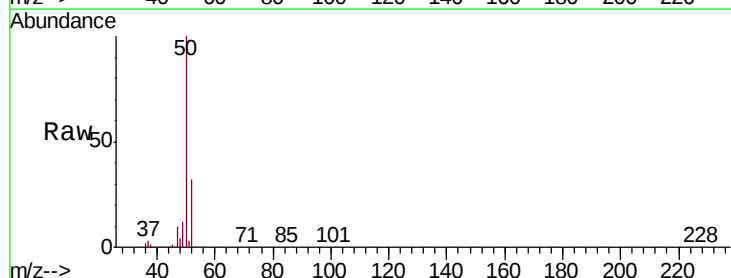
Acq: 7 Jun 2019 20:19

Tgt Ion: 50 Resp: 581188

Ion Ratio Lower Upper

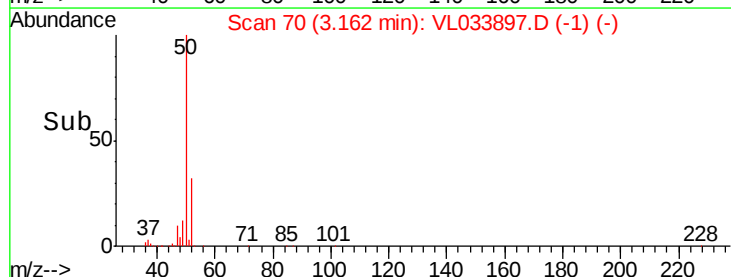
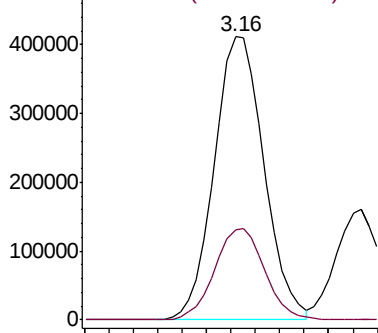
50 100

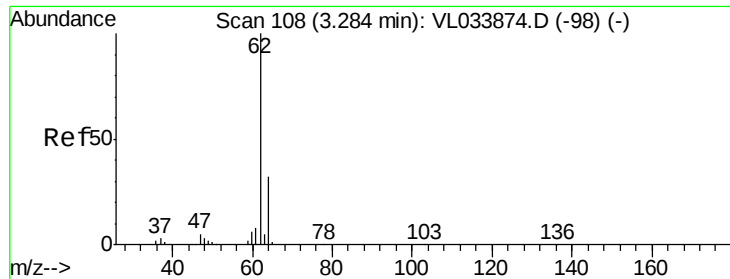
52 31.9 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.636 ppbv

RT: 3.28 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

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ClientSampleId :

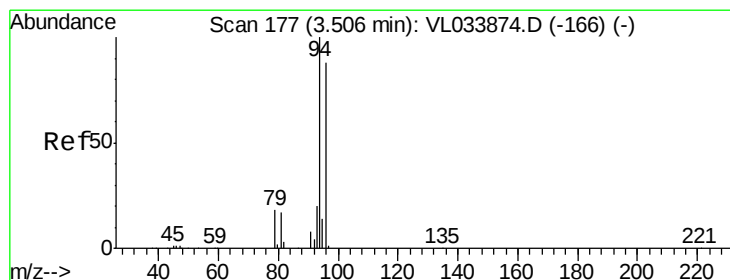
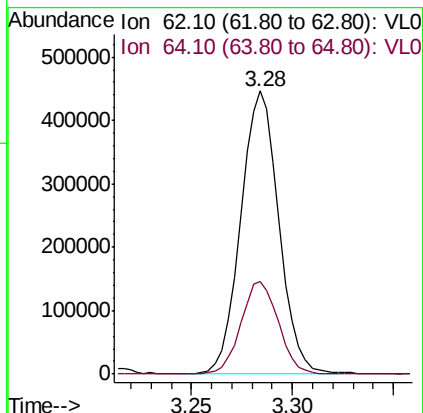
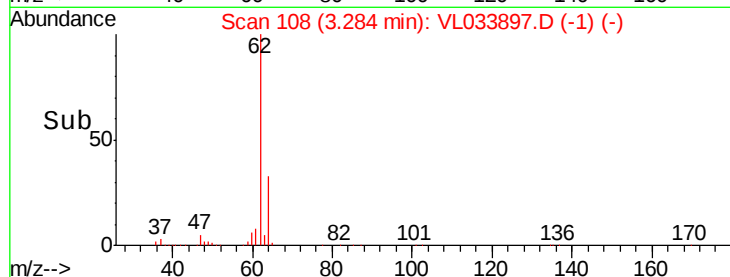
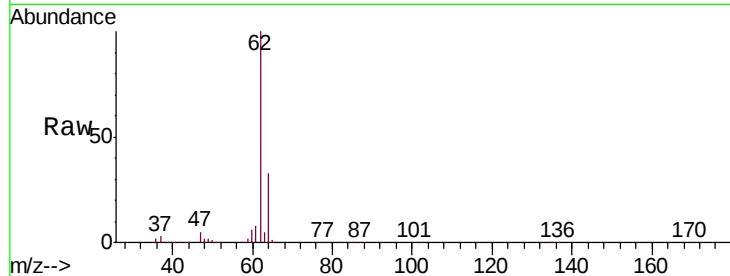
VSTDCCC010EC

Tgt Ion: 62 Resp: 591386

Ion Ratio Lower Upper

62 100

64 33.4 25.2 37.8



#6

Bromomethane

Concen: 9.158 ppbv

RT: 3.51 min Scan# 177

Delta R.T. -0.00 min

Lab File: VL033897.D

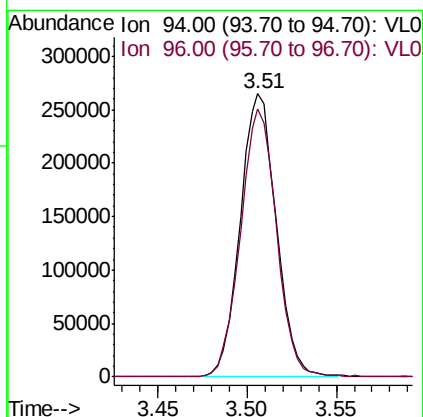
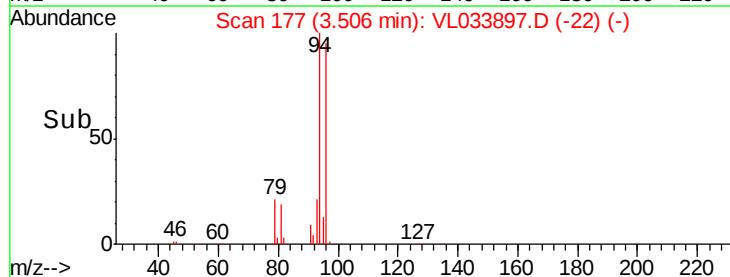
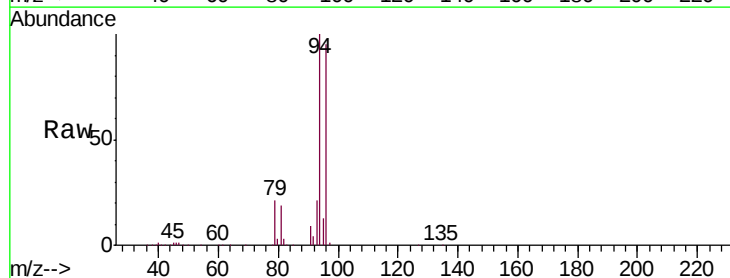
Acq: 7 Jun 2019 20:19

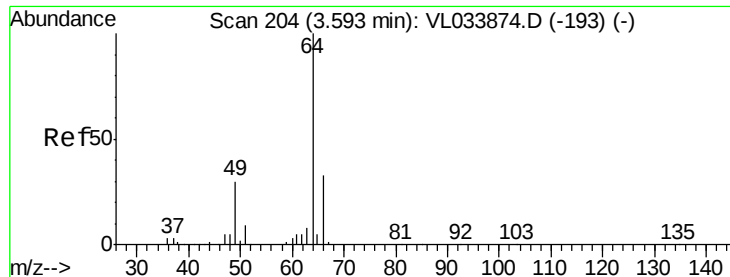
Tgt Ion: 94 Resp: 373417

Ion Ratio Lower Upper

94 100

96 94.5 70.2 105.2





#7

Chloroethane

Concen: 9.174 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

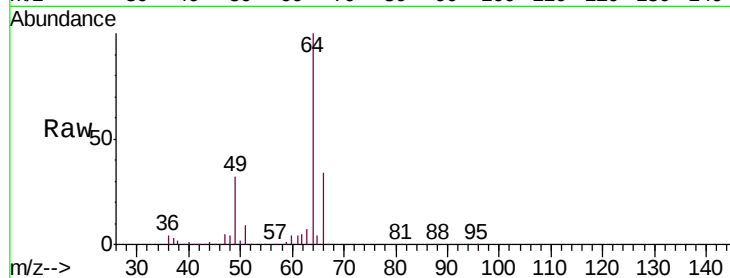
VSTDCCC010EC

Tgt Ion: 64 Resp: 222673

Ion Ratio Lower Upper

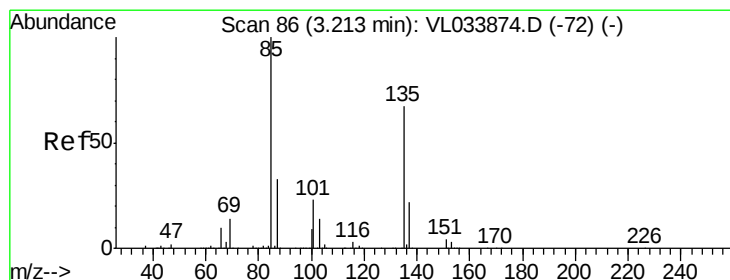
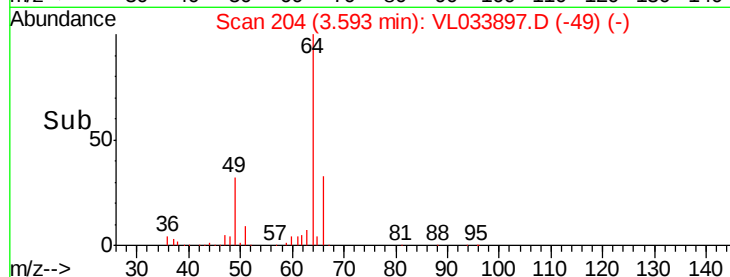
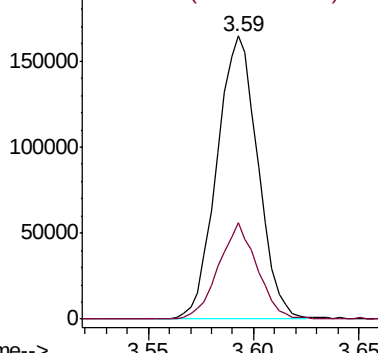
64 100

66 33.9 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.194 ppbv

RT: 3.21 min Scan# 86

Delta R.T. -0.00 min

Lab File: VL033897.D

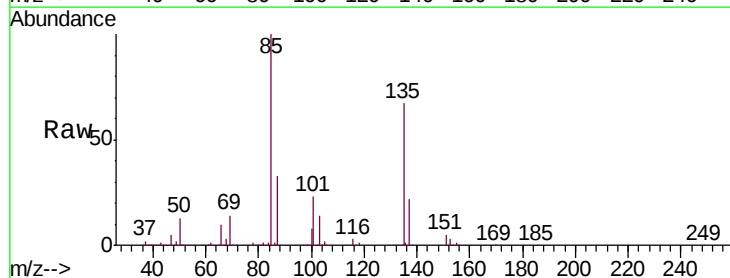
Acq: 7 Jun 2019 20:19

Tgt Ion: 85 Resp: 1570459

Ion Ratio Lower Upper

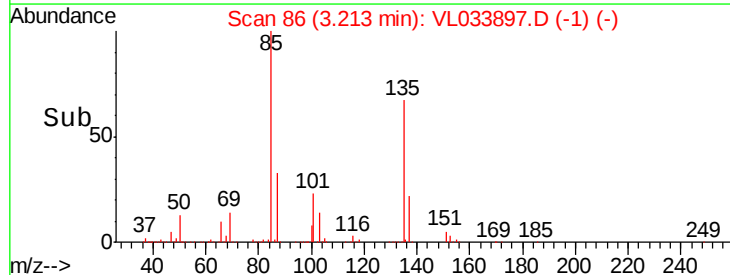
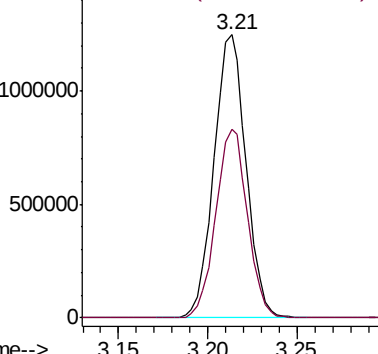
85 100

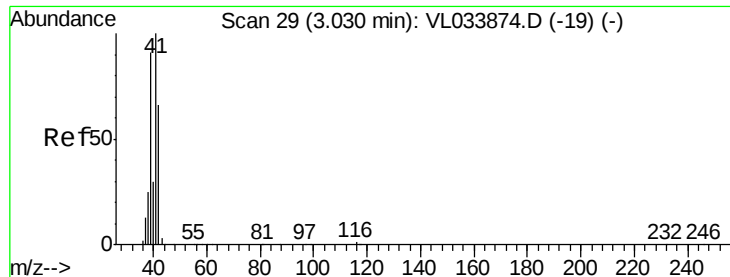
135 66.4 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.548 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

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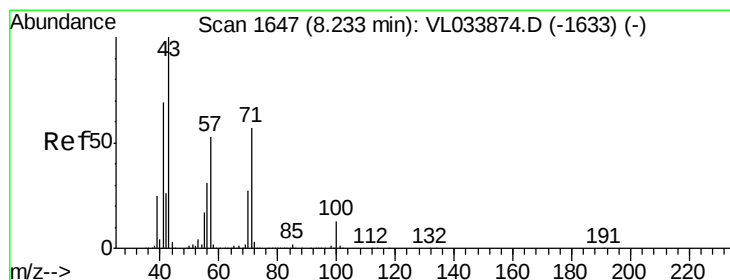
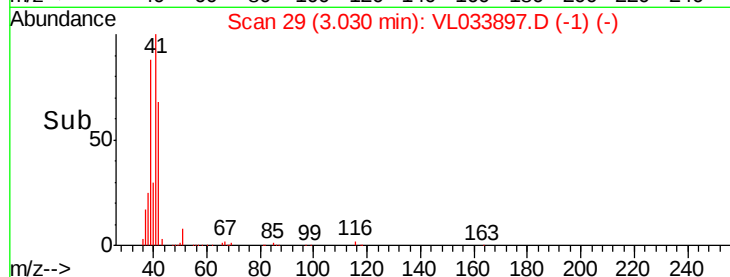
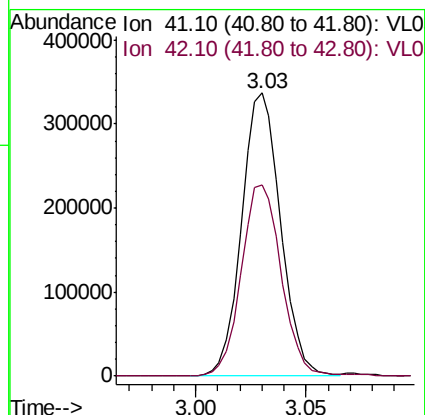
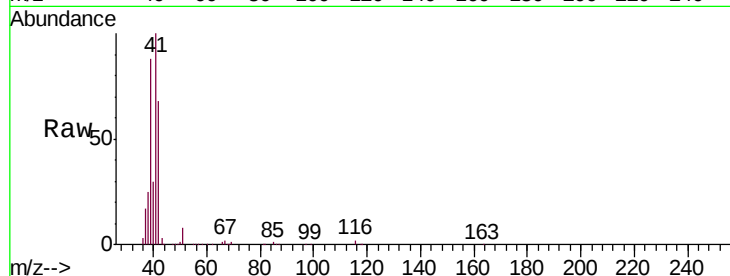
VSTDCCC010EC

Tgt Ion: 41 Resp: 414280

Ion Ratio Lower Upper

41 100

42 69.9 56.3 84.5



#10

Heptane

Concen: 11.264 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VL033897.D

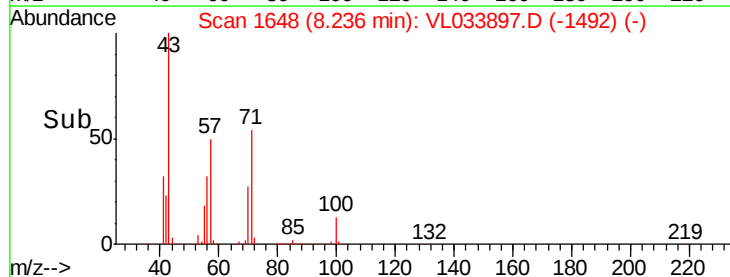
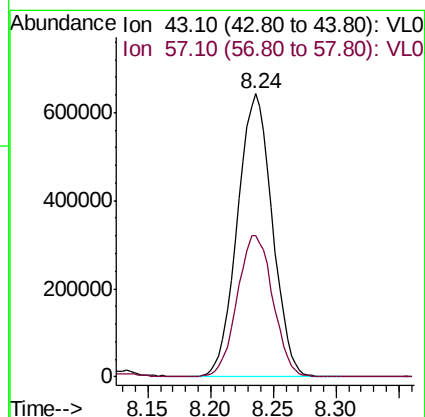
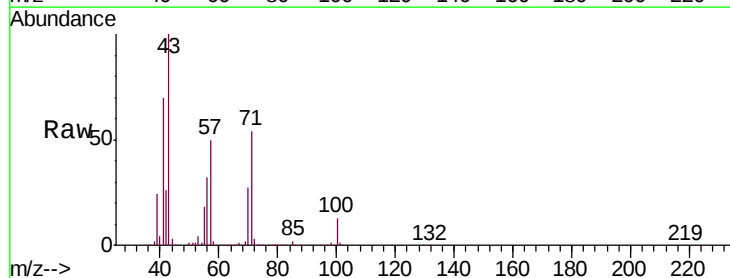
Acq: 7 Jun 2019 20:19

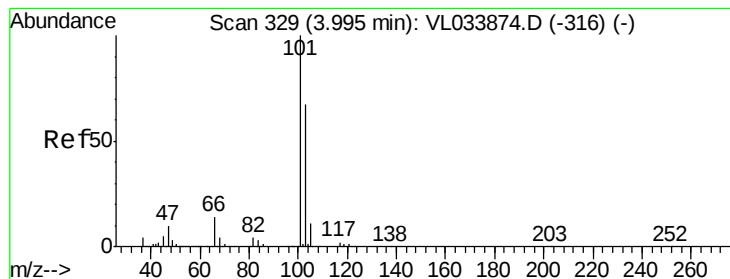
Tgt Ion: 43 Resp: 1235344

Ion Ratio Lower Upper

43 100

57 51.3 41.7 62.5





#11

Trichlorofluoromethane

Concen: 9.250 ppbv

RT: 3.99 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

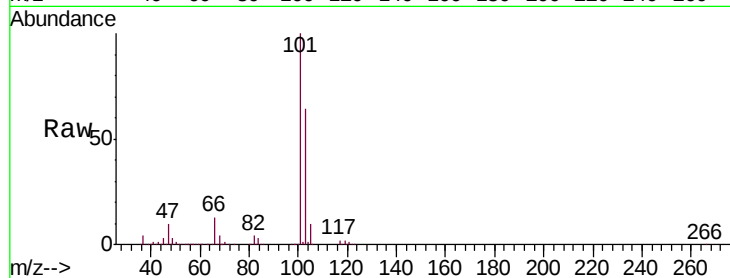
VSTDCCC010EC

Tgt Ion:101 Resp: 1907694

Ion Ratio Lower Upper

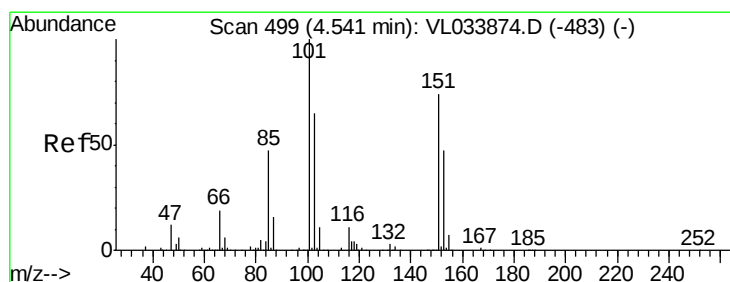
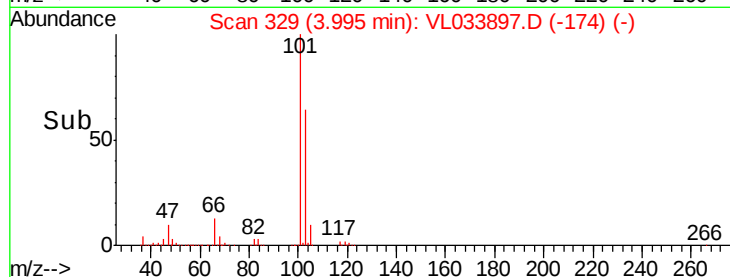
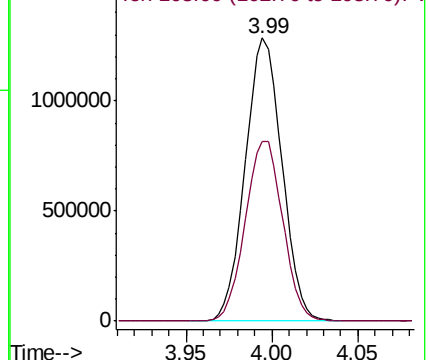
101 100

103 63.6 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.988 ppbv

RT: 4.54 min Scan# 499

Delta R.T. -0.00 min

Lab File: VL033897.D

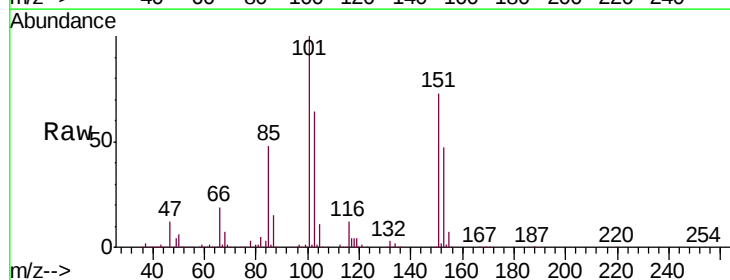
Acq: 7 Jun 2019 20:19

Tgt Ion:101 Resp: 1392185

Ion Ratio Lower Upper

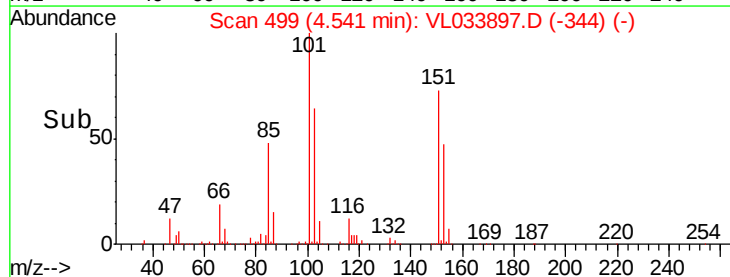
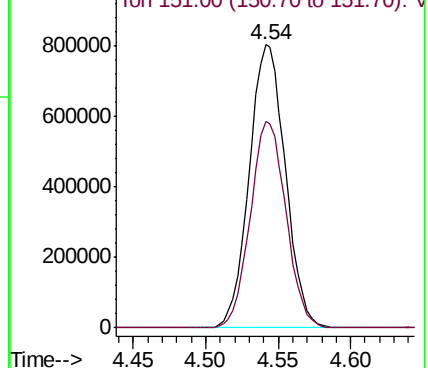
101 100

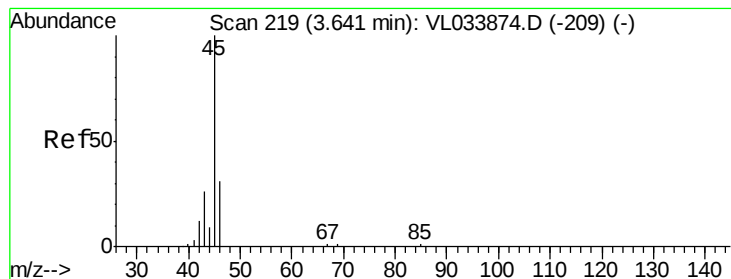
151 72.1 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.184 ppbv

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

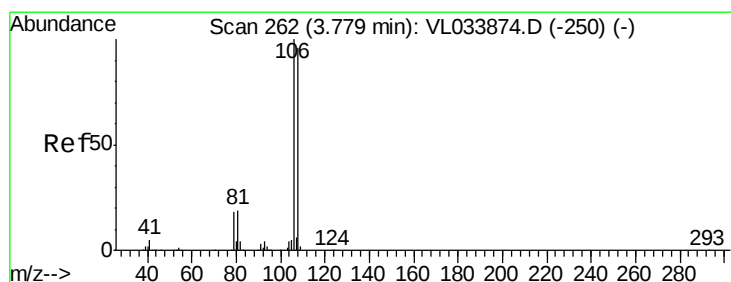
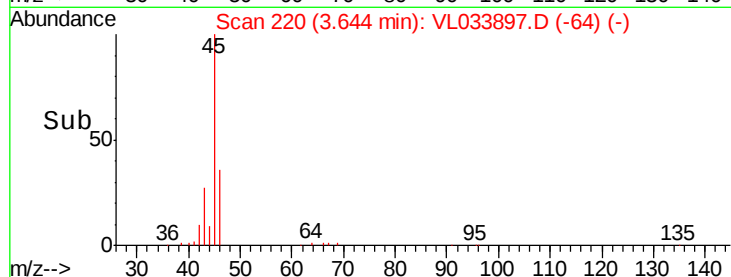
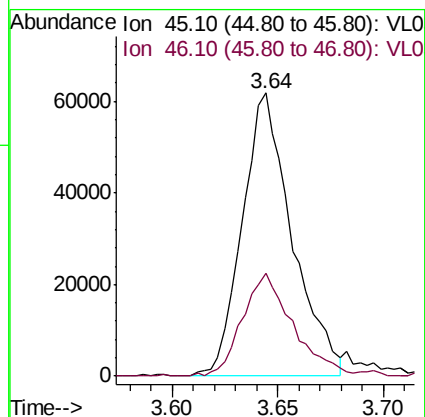
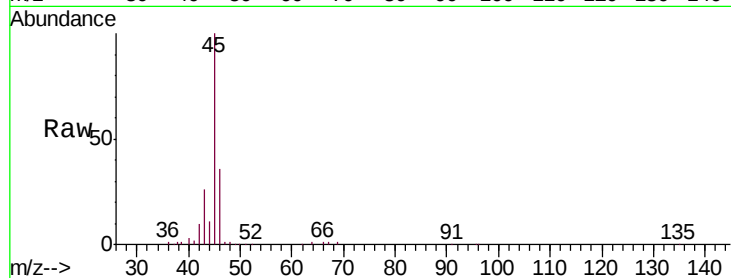
VSTDCCC010EC

Tgt Ion: 45 Resp: 101426

Ion Ratio Lower Upper

45 100

46 37.9 15.3 61.1



#14

Bromoethene

Concen: 9.740 ppbv

RT: 3.78 min Scan# 262

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

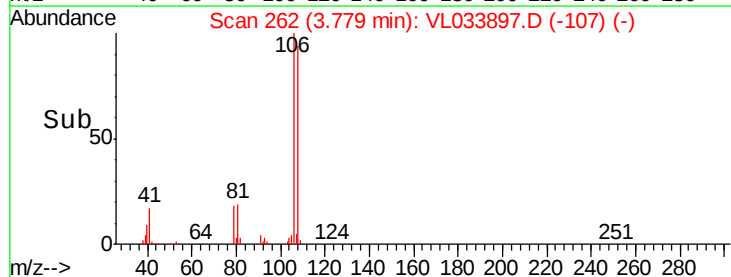
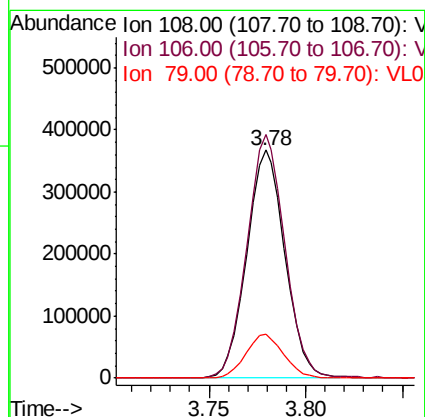
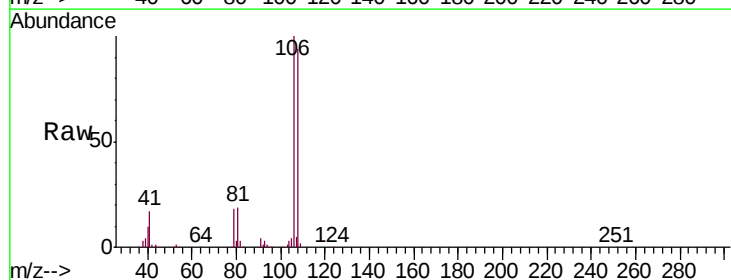
Tgt Ion: 108 Resp: 505894

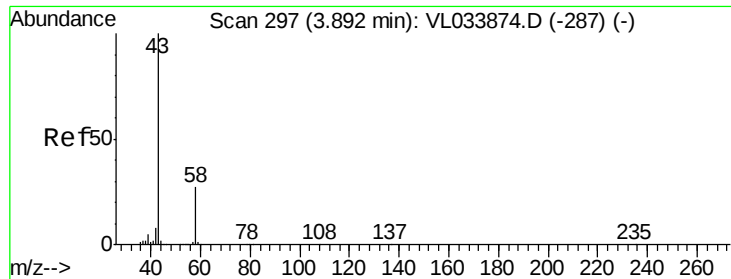
Ion Ratio Lower Upper

108 100

106 106.3 84.9 127.3

79 19.1 15.4 23.0





#15

Acetone

Concen: 8.216 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

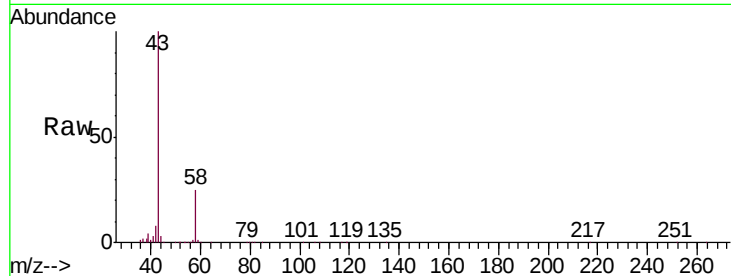
VSTDCCC010EC

Tgt Ion: 43 Resp: 1180403

Ion Ratio Lower Upper

43 100

58 25.8 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

800000

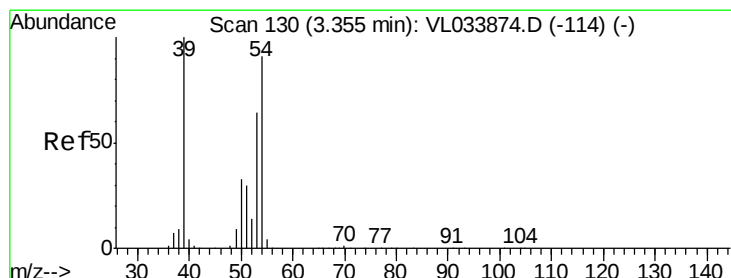
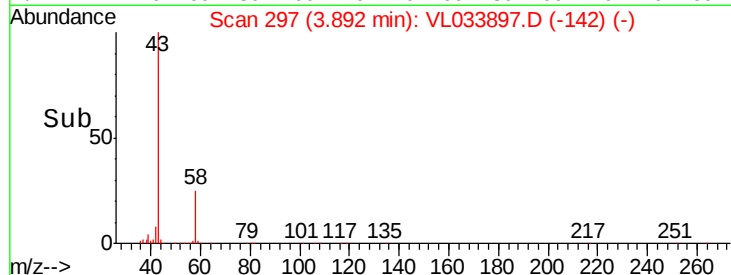
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.750 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.00 min

Lab File: VL033897.D

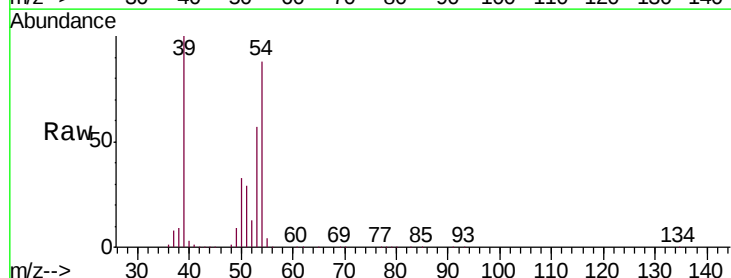
Acq: 7 Jun 2019 20:19

Tgt Ion: 39 Resp: 533144

Ion Ratio Lower Upper

39 100

54 85.3 68.6 103.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

400000

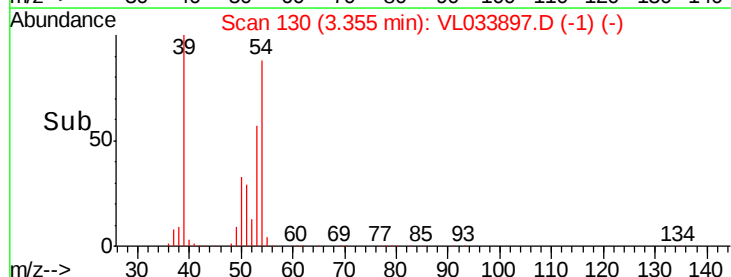
300000

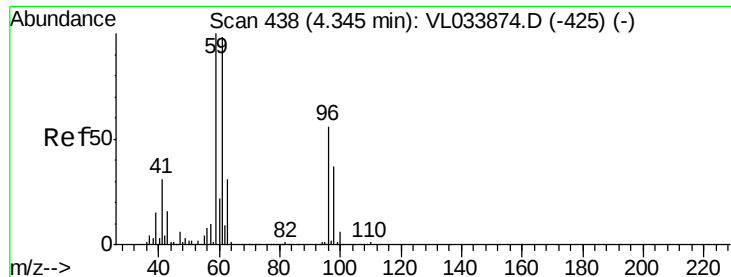
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 10.887 ppbv

RT: 4.35 min Scan# 438

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

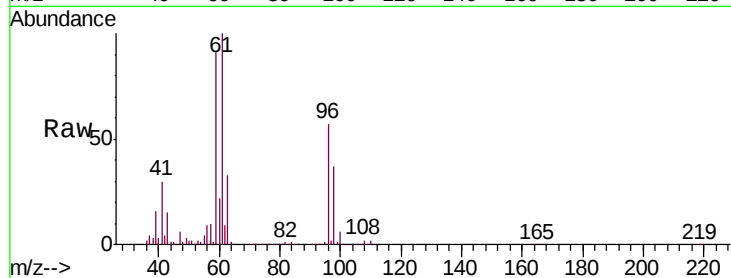
VSTDCCC010EC

Tgt Ion: 59 Resp: 1222699

Ion Ratio Lower Upper

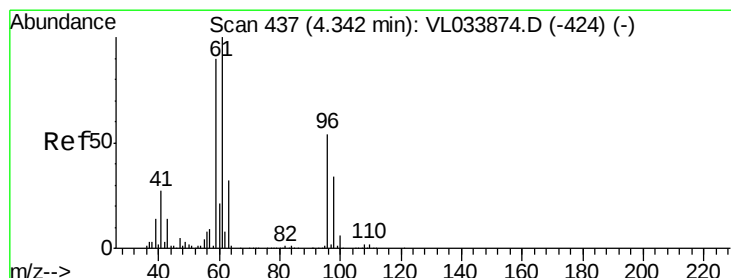
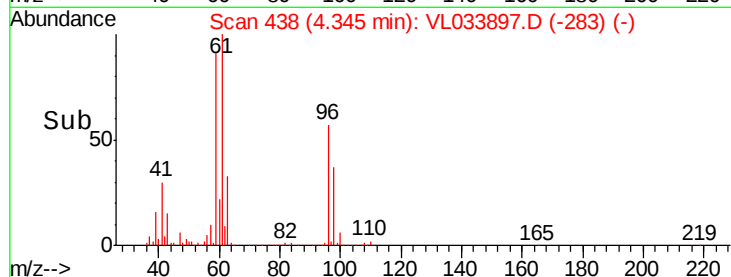
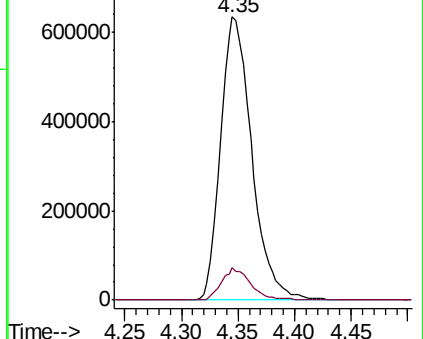
59 100

57 10.7 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 10.304 ppbv

RT: 4.35 min Scan# 438

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

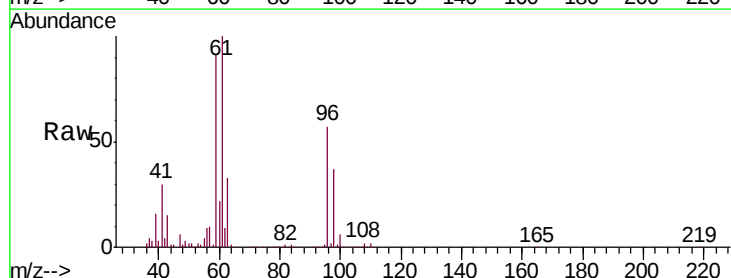
Tgt Ion: 96 Resp: 606632

Ion Ratio Lower Upper

96 100

61 173.9 147.0 220.6

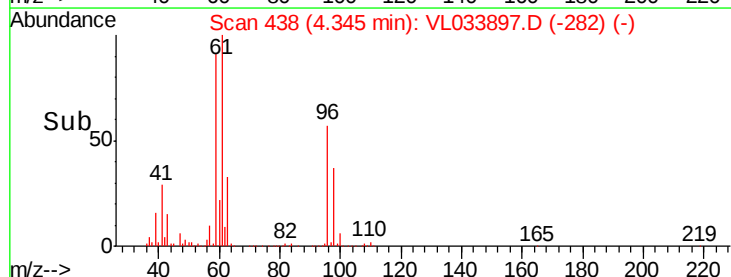
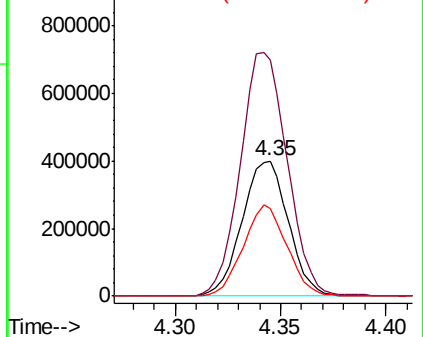
98 64.9 49.4 74.0

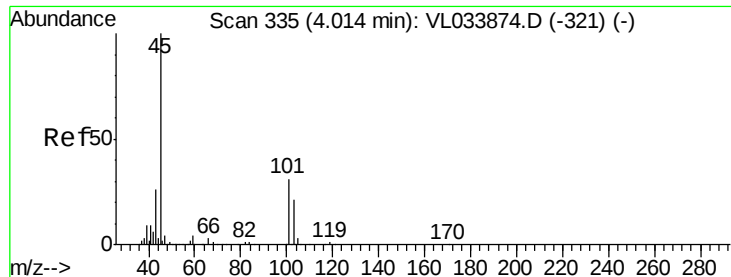


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



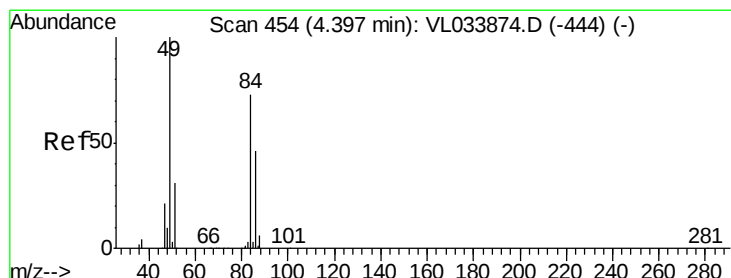
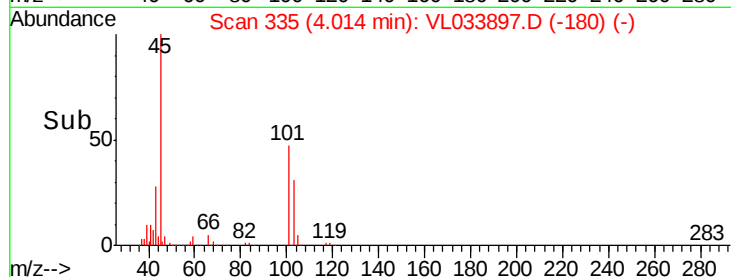
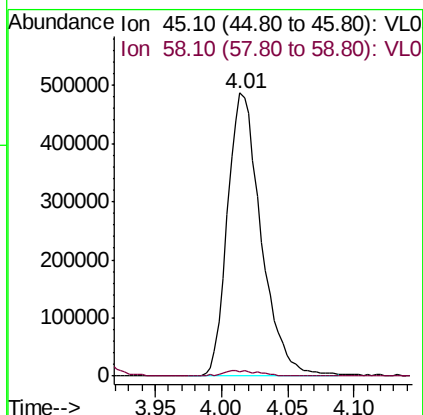
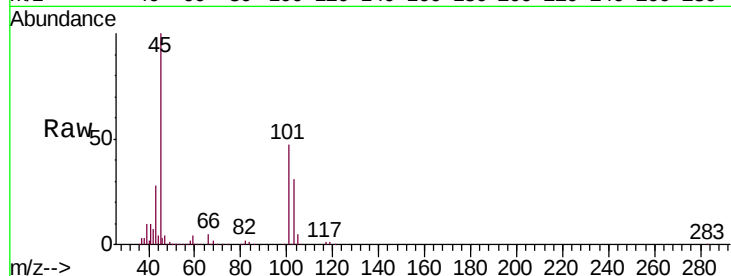


#19

Isopropyl Alcohol
 Concen: 10.440 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

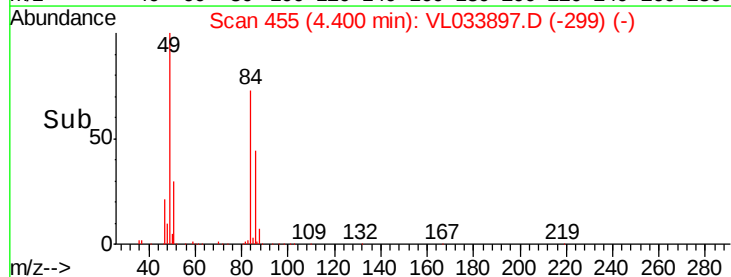
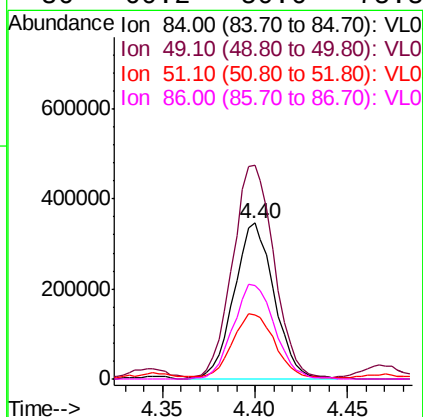
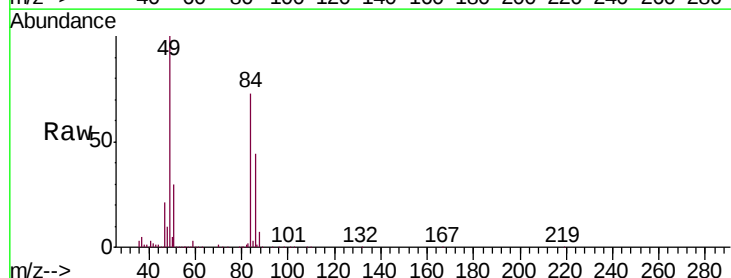
Tgt Ion: 45 Resp: 856817
 Ion Ratio Lower Upper
 45 100
 58 2.3 1.8 2.6

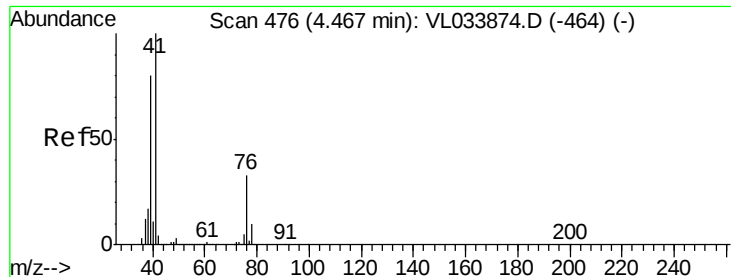


#20

Methylene Chloride
 Concen: 9.200 ppbv
 RT: 4.40 min Scan# 455
 Delta R.T. 0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 84 Resp: 515418
 Ion Ratio Lower Upper
 84 100
 49 136.4 110.0 165.0
 51 40.2 34.6 51.8
 86 60.2 50.6 75.8





#21

Allyl Chloride

Concen: 10.699 ppbv

RT: 4.47 min Scan# 476

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

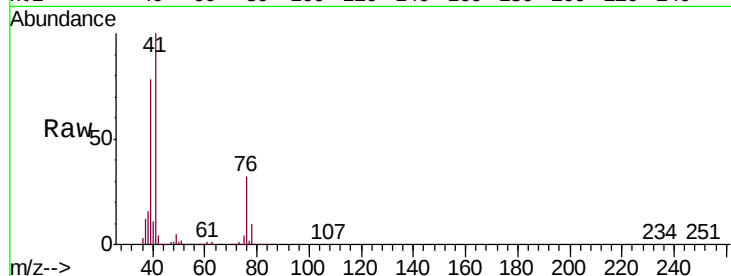
Tgt Ion: 41 Resp: 873132

Ion Ratio Lower Upper

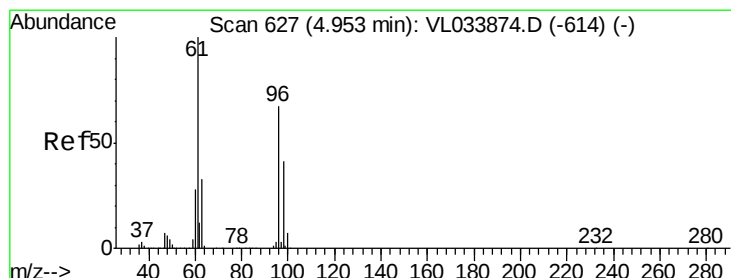
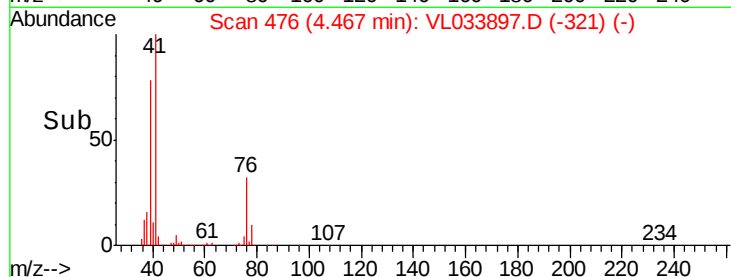
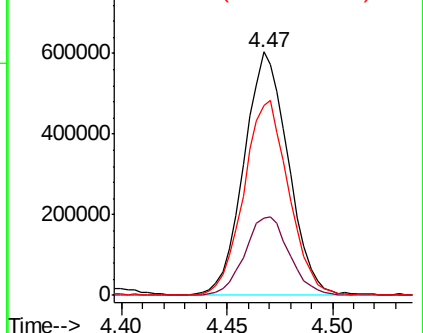
41 100

76 32.8 26.6 39.8

39 82.0 65.2 97.8



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



#22

trans-1,2-Dichloroethene

Concen: 10.144 ppbv

RT: 4.95 min Scan# 627

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

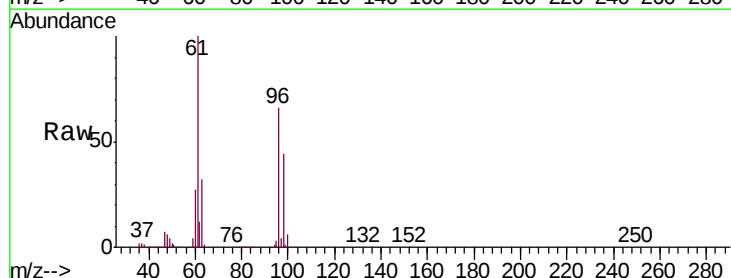
Tgt Ion: 96 Resp: 629504

Ion Ratio Lower Upper

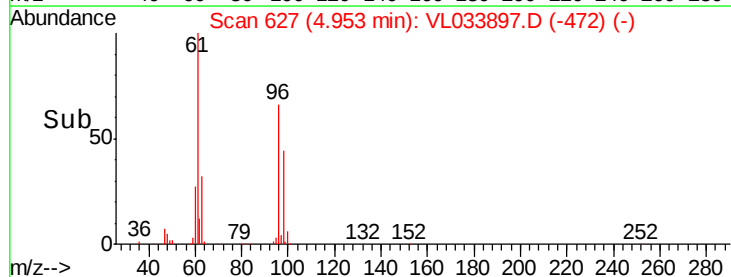
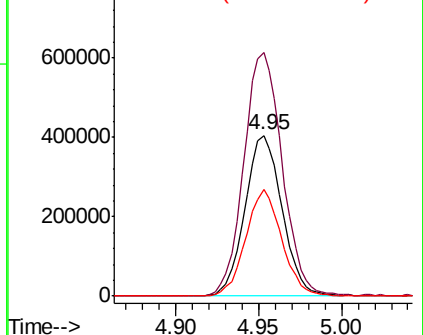
96 100

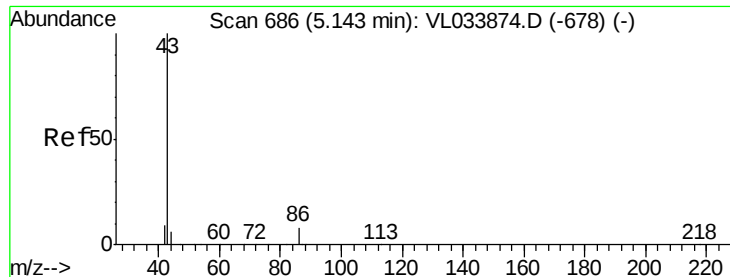
61 151.2 119.0 178.6

98 65.9 48.3 72.5



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





#23

Vinyl Acetate

Concen: 10.620 ppbv

RT: 5.15 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1773442

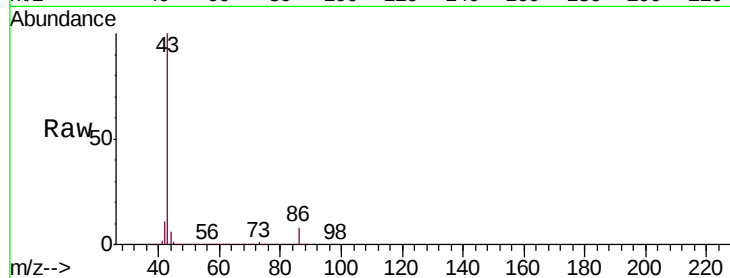
Ion Ratio Lower Upper

43 100

86 7.5 5.8 8.8

42 10.6 7.8 11.8

44 5.7 4.2 6.4

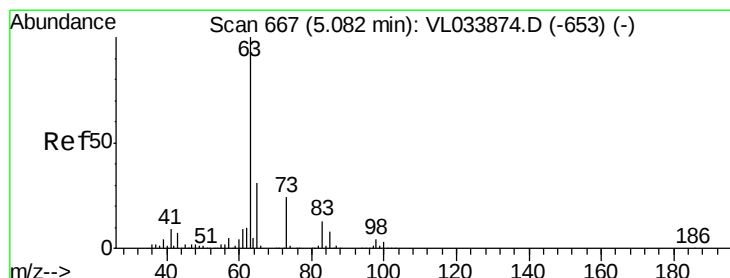
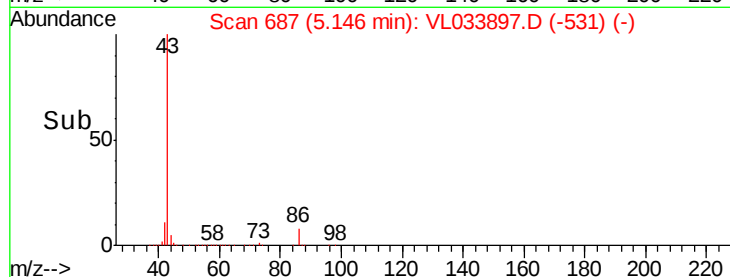
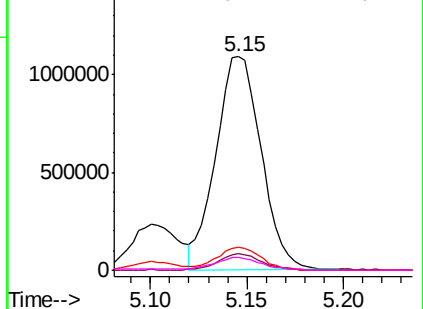


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.018 ppbv

RT: 5.08 min Scan# 668

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

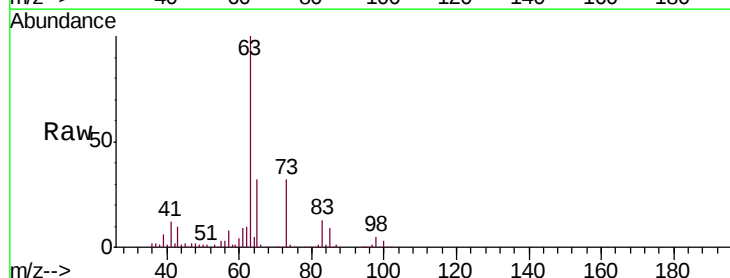
Tgt Ion: 63 Resp: 1301118

Ion Ratio Lower Upper

63 100

98 4.7 2.2 6.6

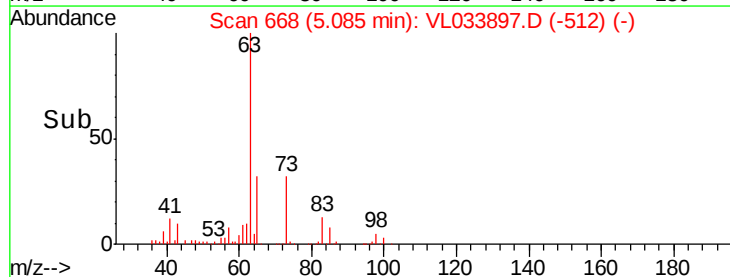
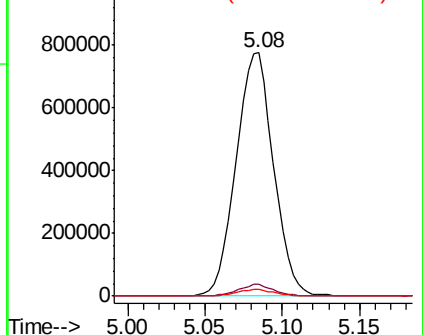
100 2.6 1.3 3.8

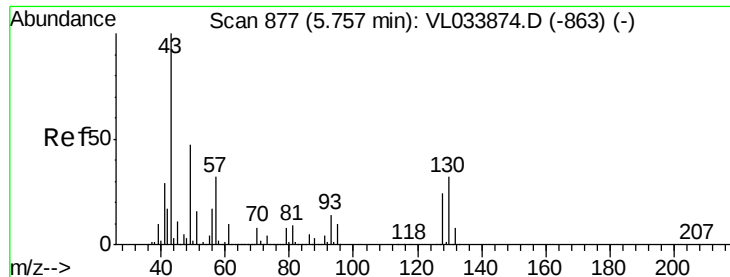


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

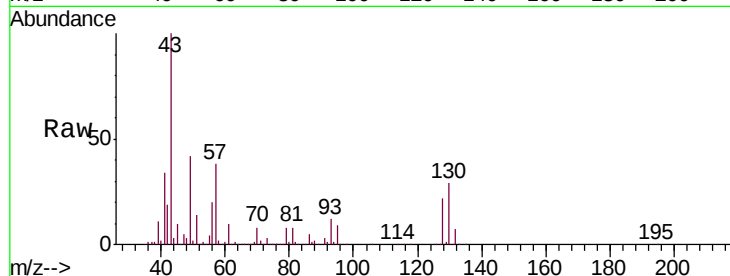




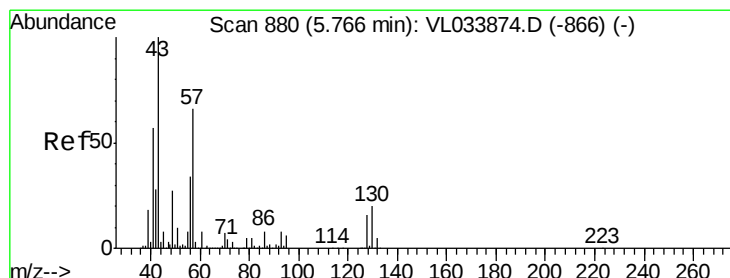
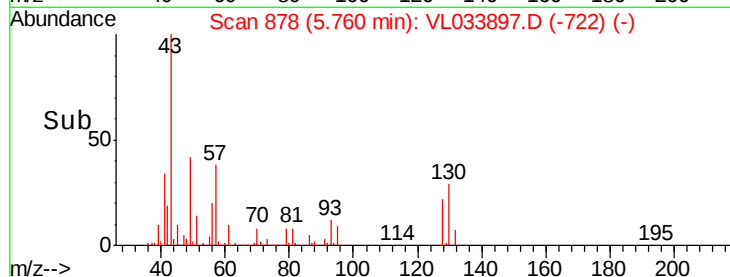
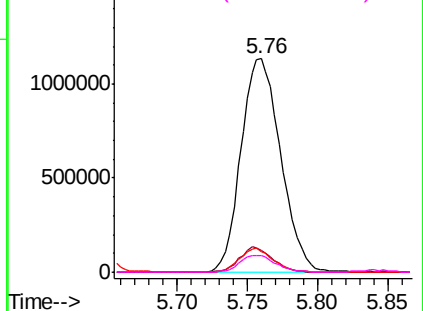
#25
Ethyl Acetate
Concen: 10.182 ppbv
RT: 5.76 min Scan# 878
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 2227672
Ion Ratio Lower Upper
43 100
45 9.9 7.9 11.9
61 9.5 7.8 11.6
70 7.1 5.8 8.6

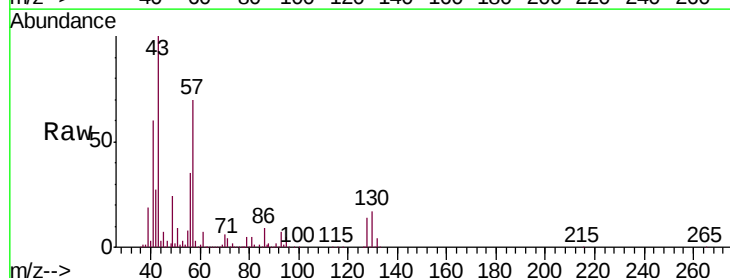


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

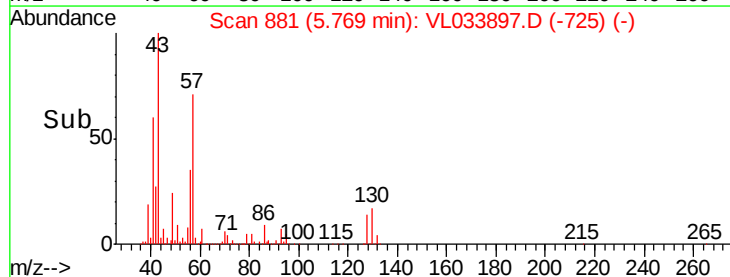
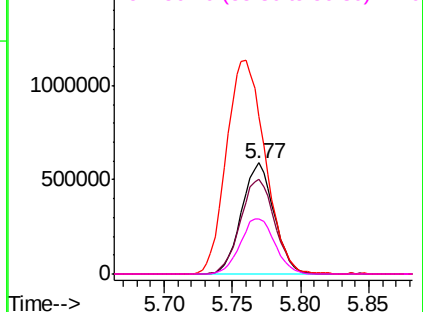


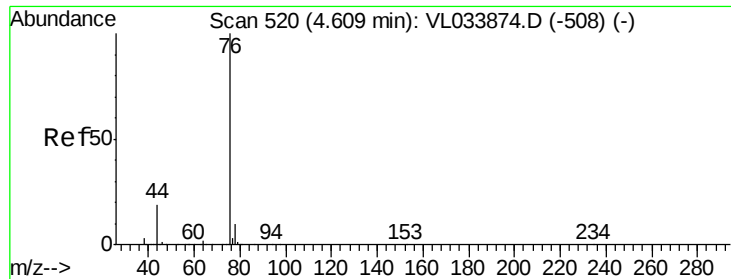
#26
Hexane
Concen: 9.741 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion: 57 Resp: 970316
Ion Ratio Lower Upper
57 100
41 90.5 71.4 107.2
43 231.2 183.7 275.5
56 53.4 42.7 64.1



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.167 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

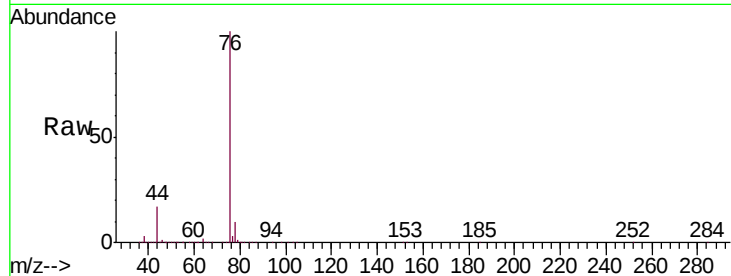
Tgt Ion: 76 Resp: 1545520

Ion Ratio Lower Upper

76 100

44 17.5 14.4 21.6

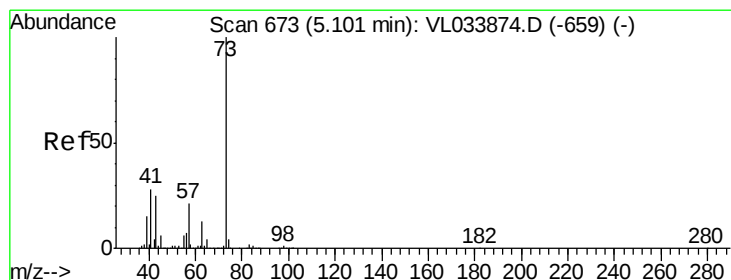
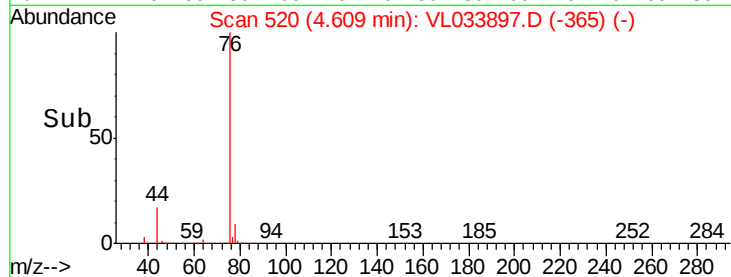
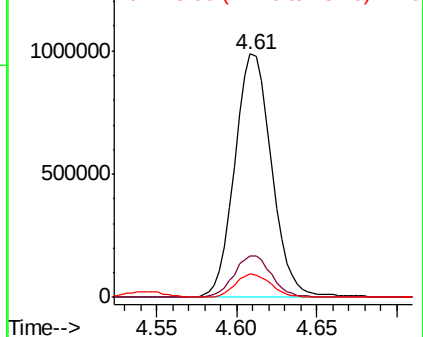
78 9.2 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.677 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL033897.D

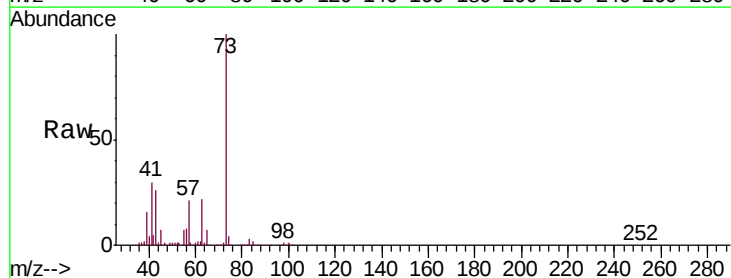
Acq: 7 Jun 2019 20:19

Tgt Ion: 73 Resp: 1608406

Ion Ratio Lower Upper

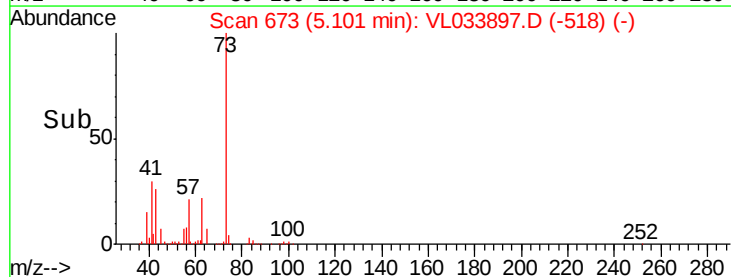
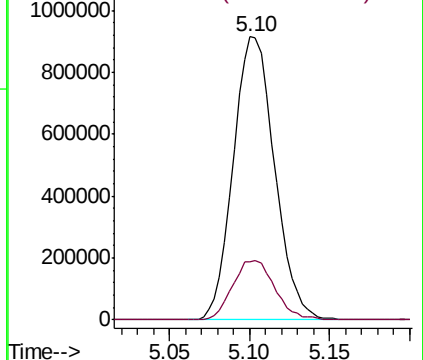
73 100

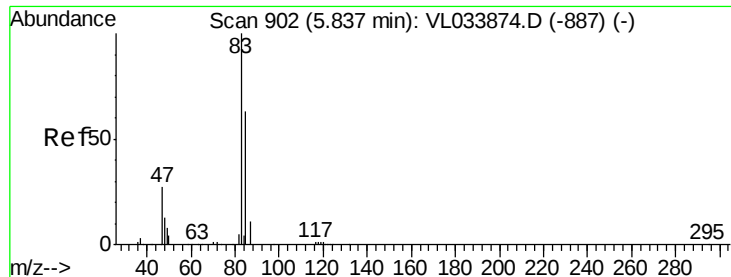
57 21.6 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

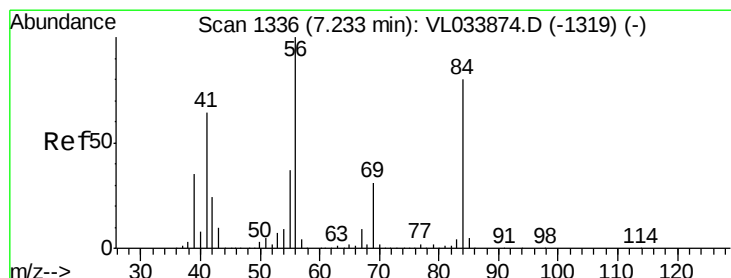
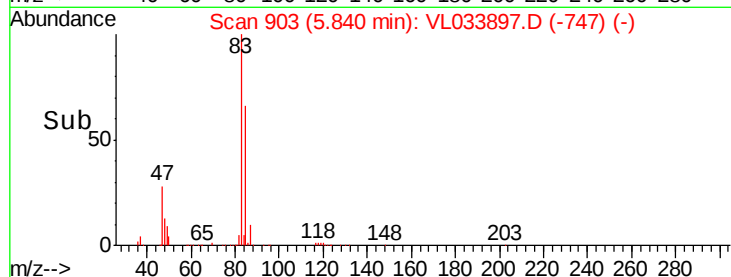
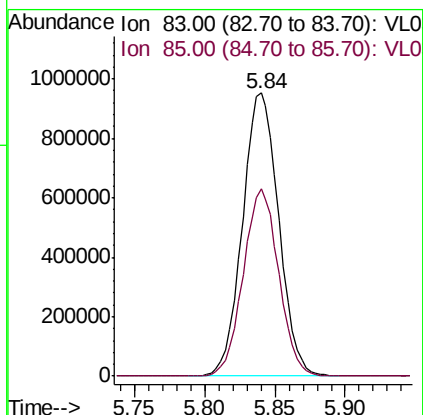
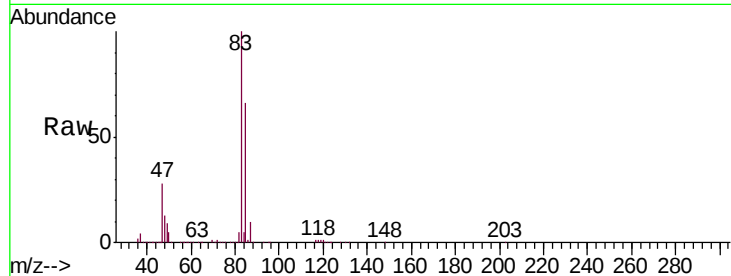




#29
Chloroform
Concen: 10.048 ppbv
RT: 5.84 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

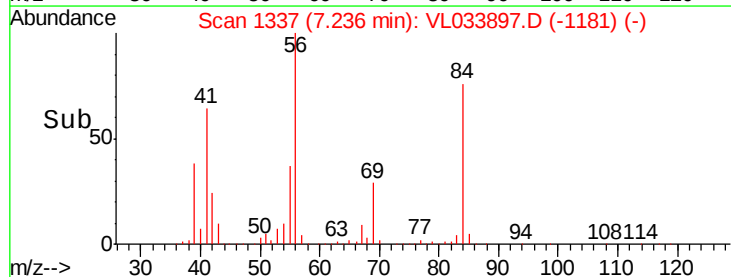
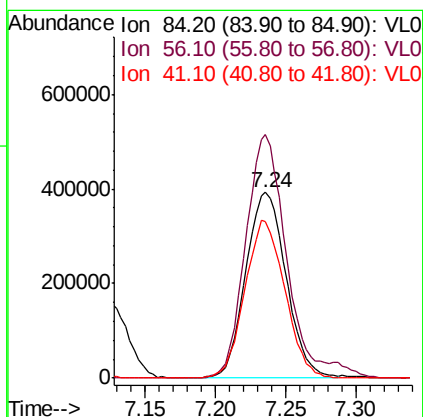
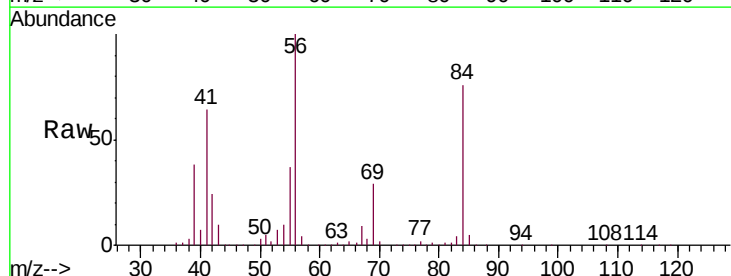
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

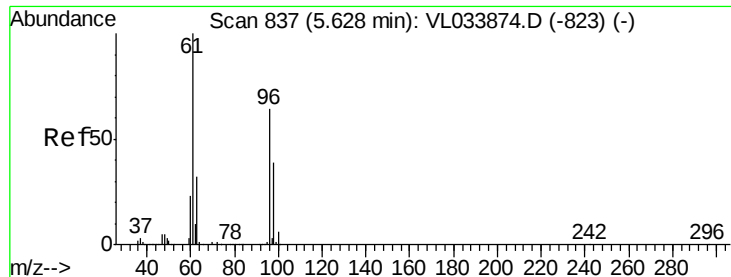
Tgt Ion: 83 Resp: 1714368
Ion Ratio Lower Upper
83 100
85 66.0 50.5 75.7



#30
Cyclohexane
Concen: 11.207 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion: 84 Resp: 788794
Ion Ratio Lower Upper
84 100
56 134.4 105.8 158.8
41 84.2 65.7 98.5





#31

cis-1,2-Dichloroethene

Concen: 11.285 ppbv

RT: 5.63 min Scan# 838

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

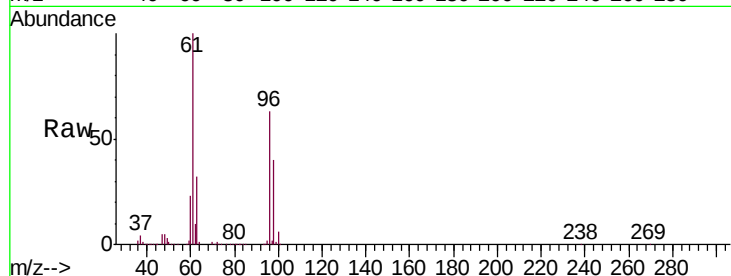
Tgt Ion: 61 Resp: 985758

Ion Ratio Lower Upper

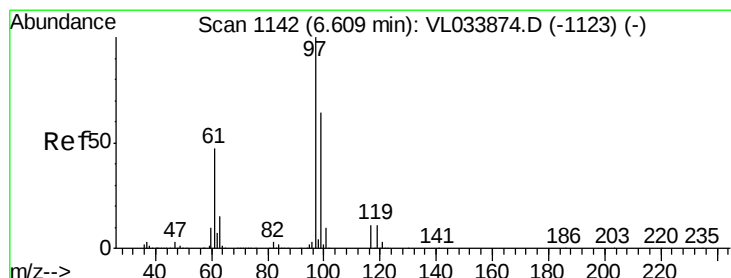
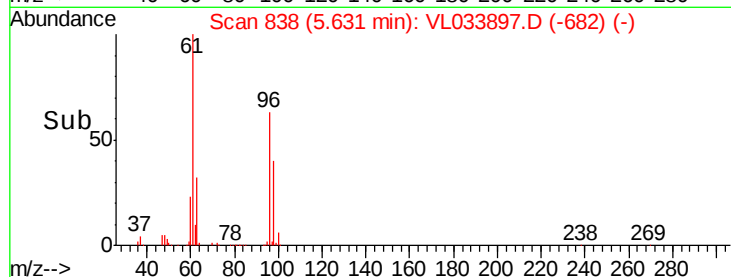
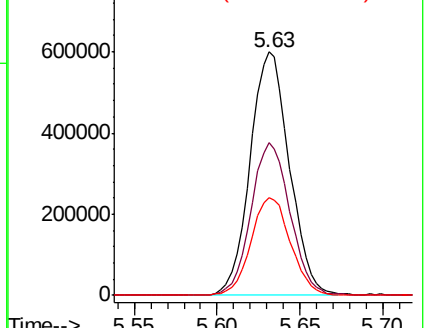
61 100

96 62.8 50.9 76.3

98 40.0 31.4 47.2



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



#32

1,1,1-Trichloroethane

Concen: 10.705 ppbv

RT: 6.61 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

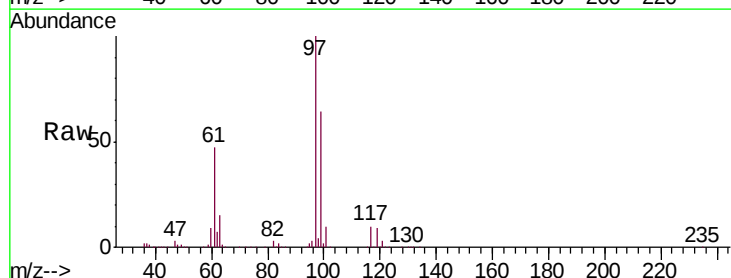
Tgt Ion: 97 Resp: 1761819

Ion Ratio Lower Upper

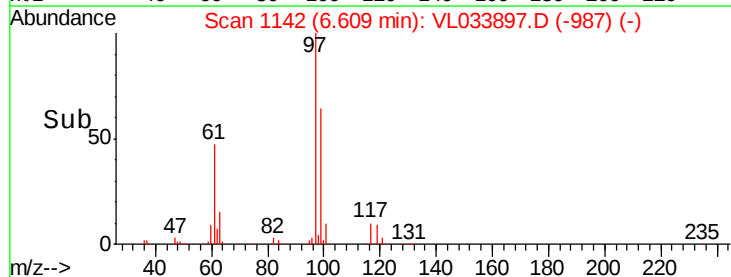
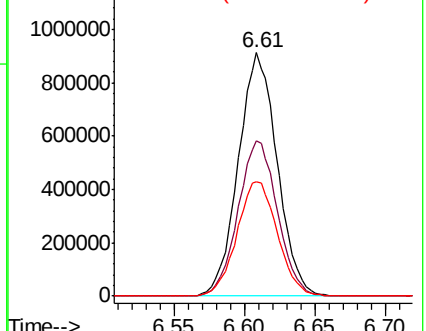
97 100

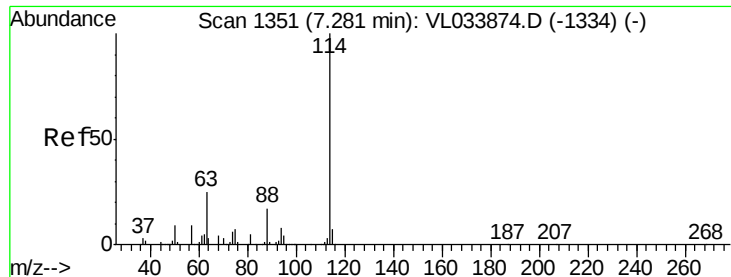
99 64.8 51.7 77.5

61 48.9 37.7 56.5



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

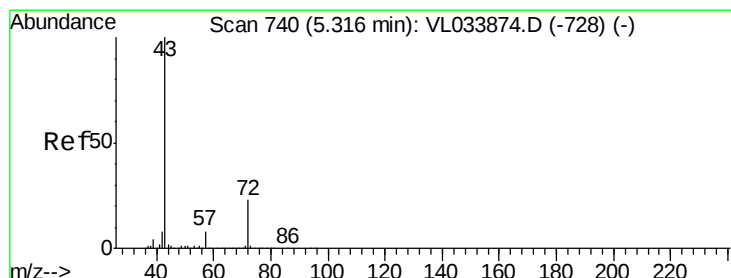
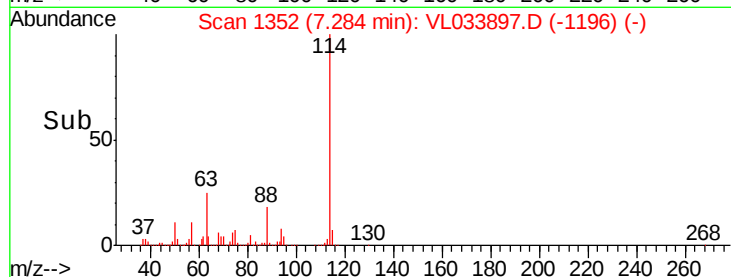
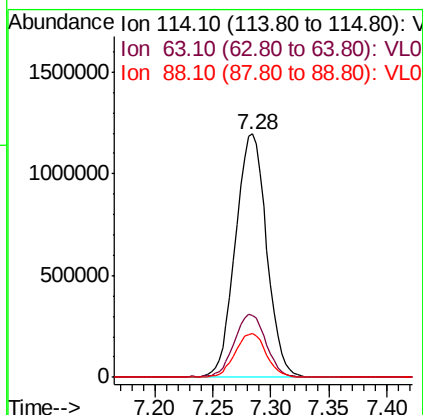
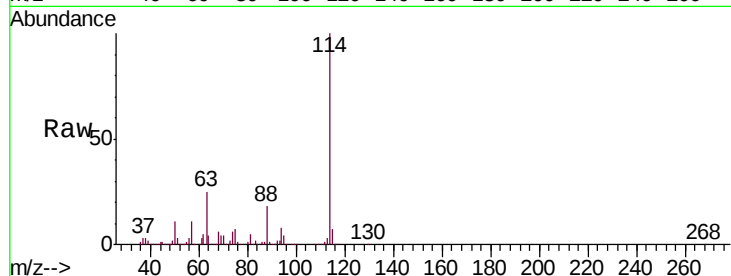




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. 0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

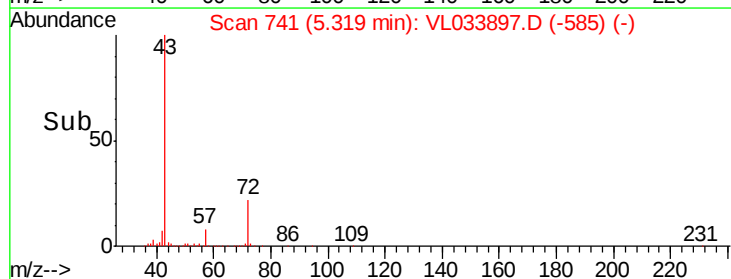
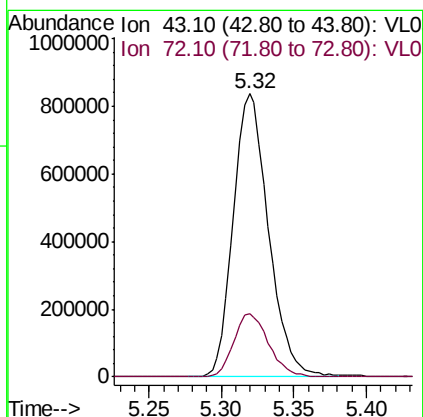
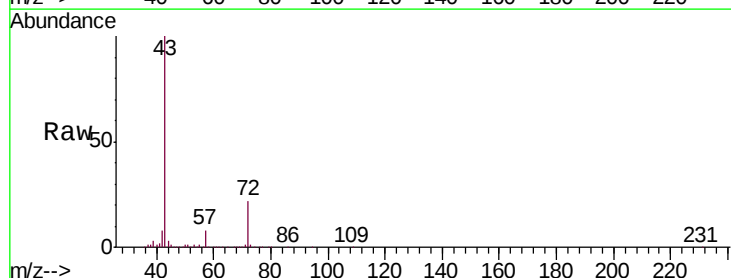
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

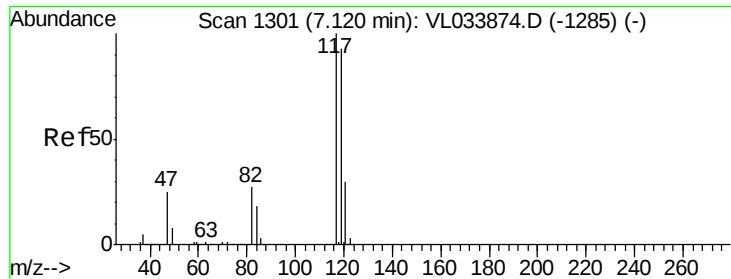
Tgt Ion: 114 Resp: 2234807
 Ion Ratio Lower Upper
 114 100
 63 26.8 21.1 31.7
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 11.185 ppbv
 RT: 5.32 min Scan# 741
 Delta R.T. 0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 43 Resp: 1410116
 Ion Ratio Lower Upper
 43 100
 72 22.3 17.9 26.9





#35

Carbon Tetrachloride

Concen: 11.028 ppbv

RT: 7.12 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

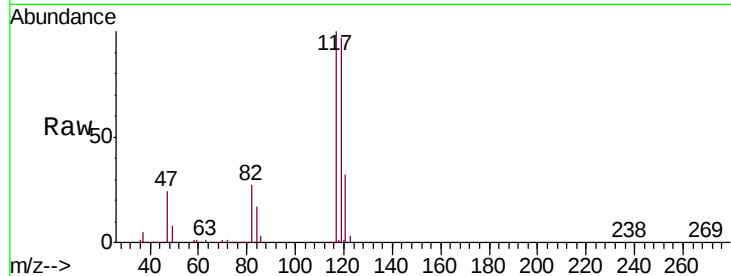
Tgt Ion:117 Resp: 1904072

Ion Ratio Lower Upper

117 100

119 97.1 74.6 111.8

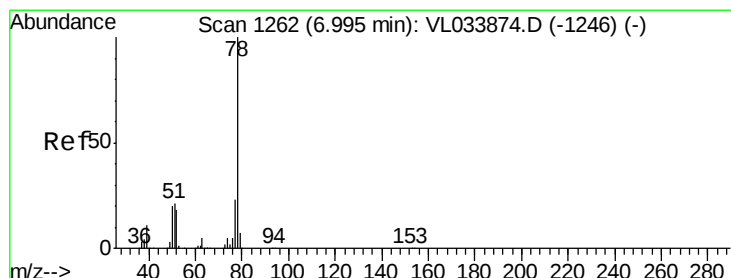
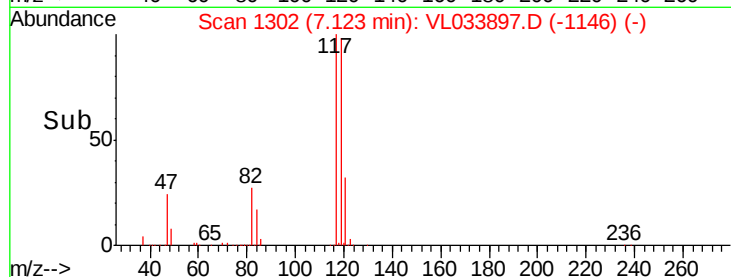
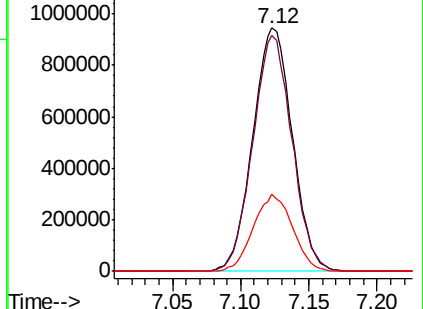
121 31.7 24.0 36.0



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: 11.156 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

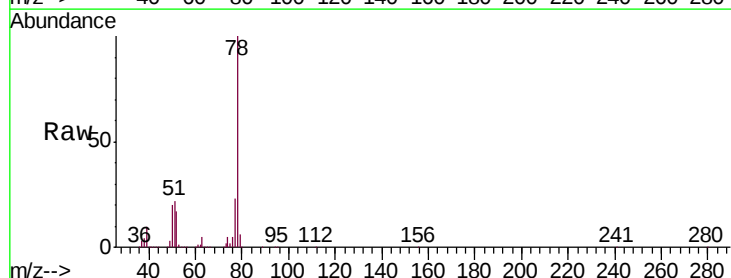
Tgt Ion: 78 Resp: 1904484

Ion Ratio Lower Upper

78 100

77 22.7 18.2 27.2

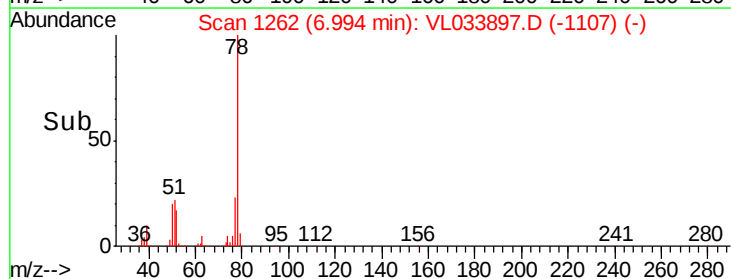
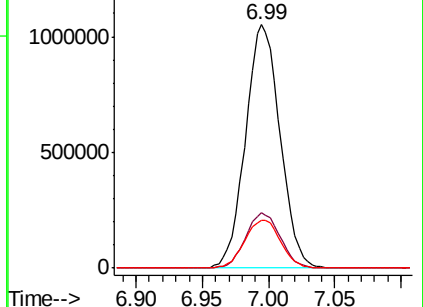
50 19.8 15.9 23.9

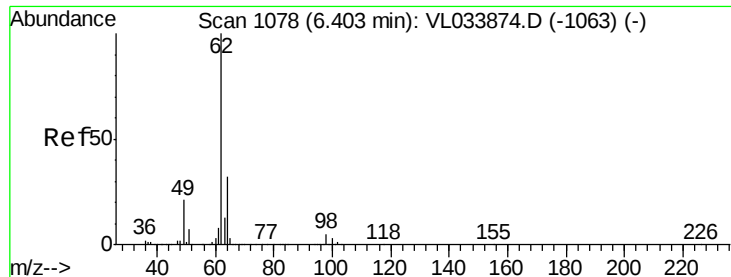


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

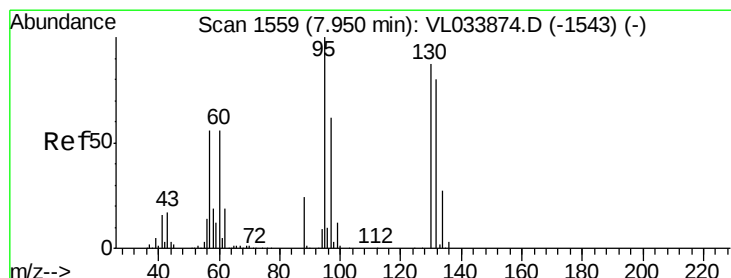
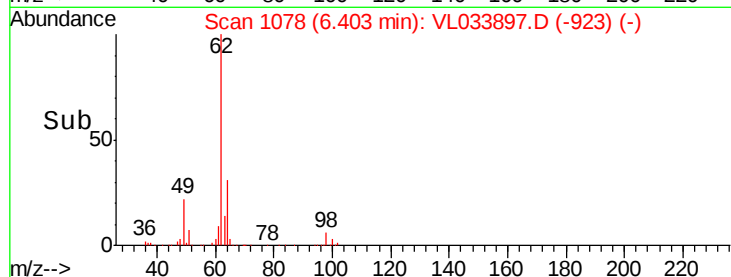
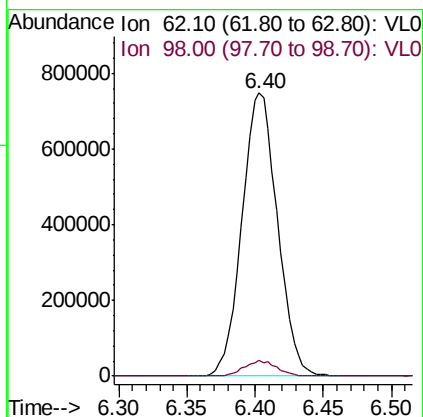
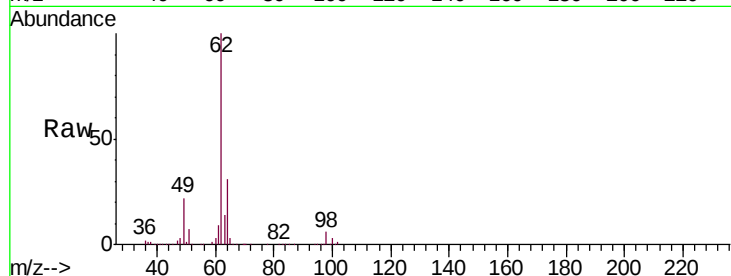




#37
 1,2-Dichloroethane
 Concen: 10.685 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

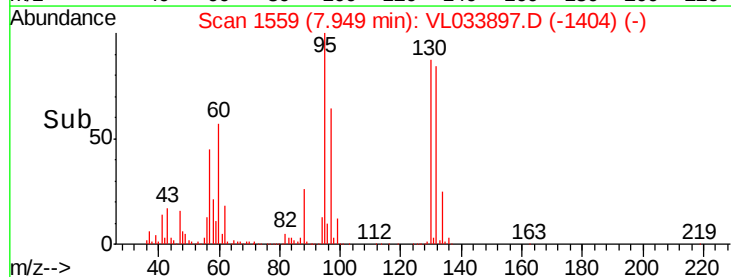
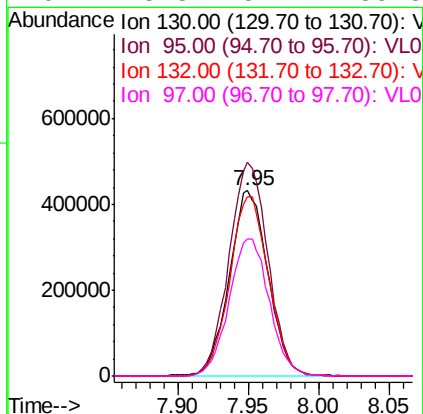
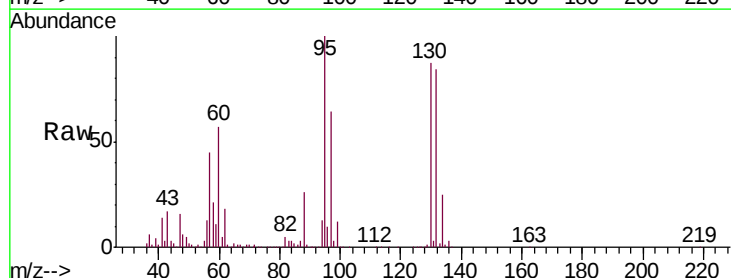
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

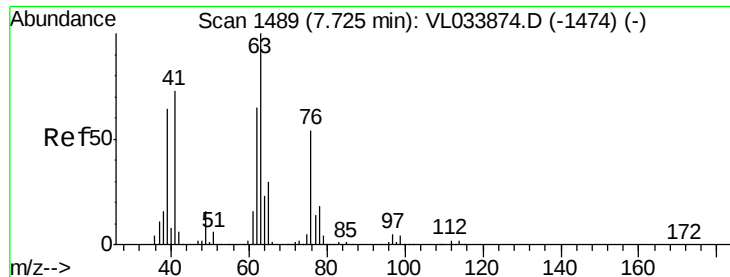
Tgt Ion: 62 Resp: 1348956
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.0 6.0



#38
 Trichloroethene
 Concen: 12.342 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 130 Resp: 820365
 Ion Ratio Lower Upper
 130 100
 95 115.1 92.0 138.0
 132 96.6 73.8 110.8
 97 73.8 57.2 85.8

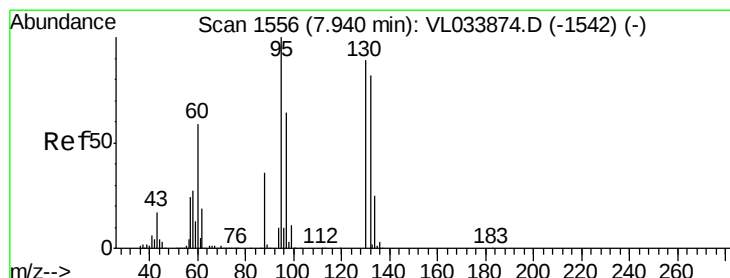
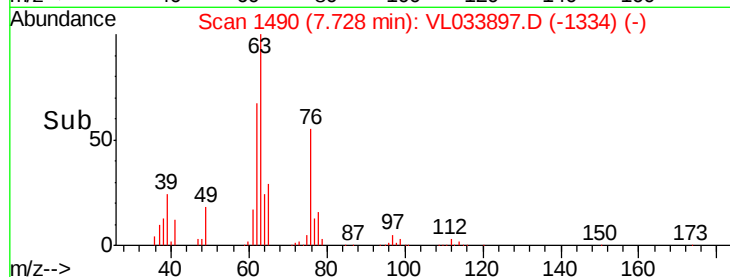
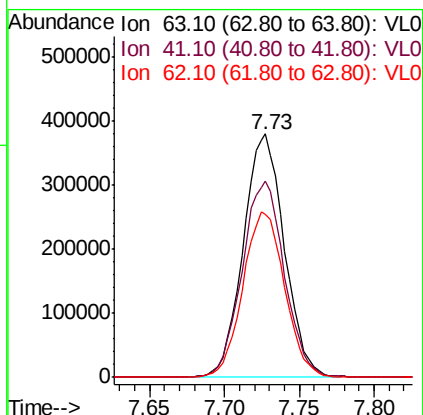
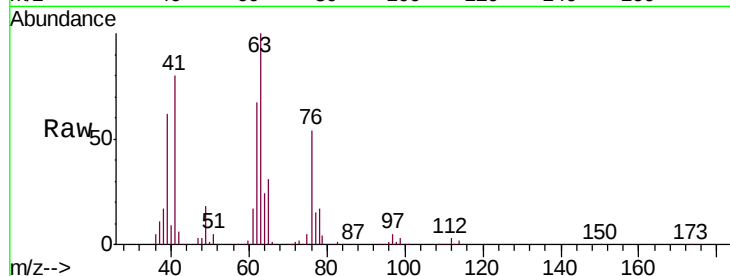




#39
 1,2-Dichloropropane
 Concen: 10.970 ppbv
 RT: 7.73 min Scan# 1490
 Delta R.T. 0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

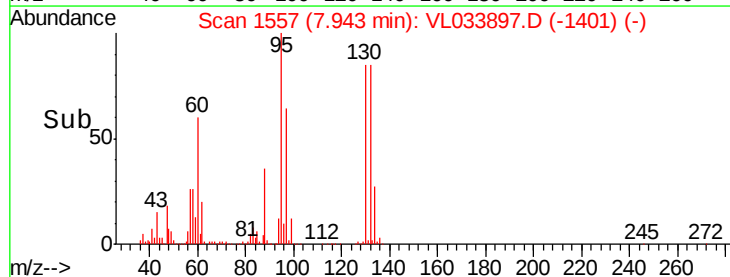
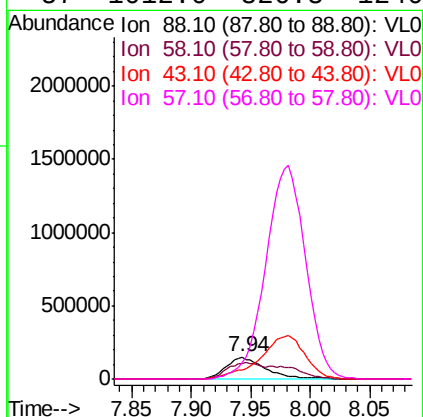
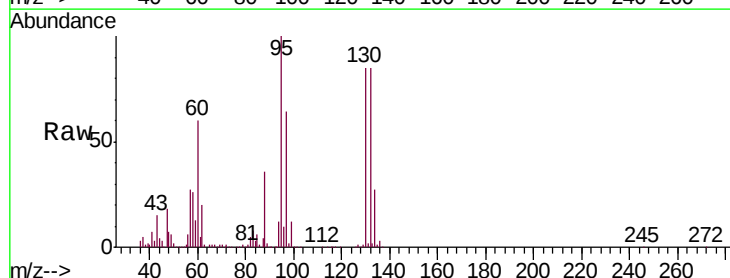
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

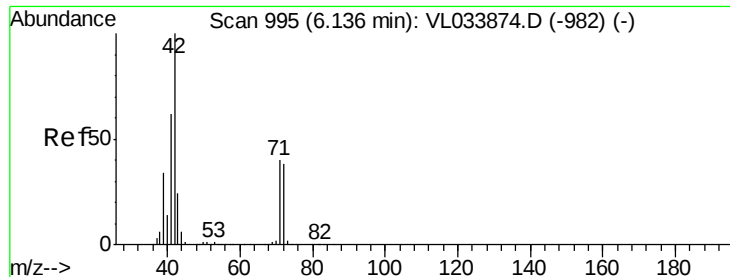
Tgt Ion: 63 Resp: 722784
 Ion Ratio Lower Upper
 63 100
 41 80.4 58.7 88.1
 62 67.1 51.9 77.9



#40
 1,4-Dioxane
 Concen: 12.486 ppbv
 RT: 7.94 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 88 Resp: 335524
 Ion Ratio Lower Upper
 88 100
 58 118.0 100.0 150.0
 43 230.9 184.7 277.1
 57 1012.0 826.8 1240.2

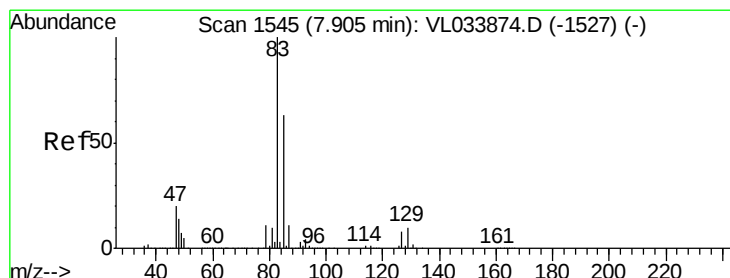
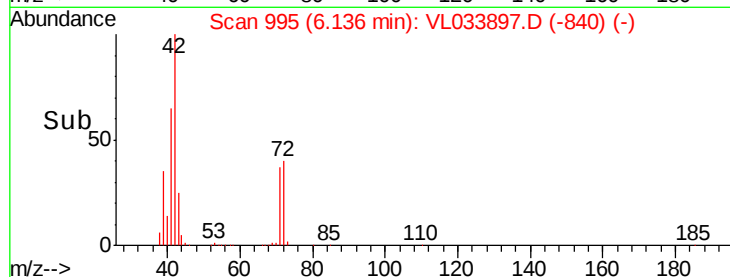
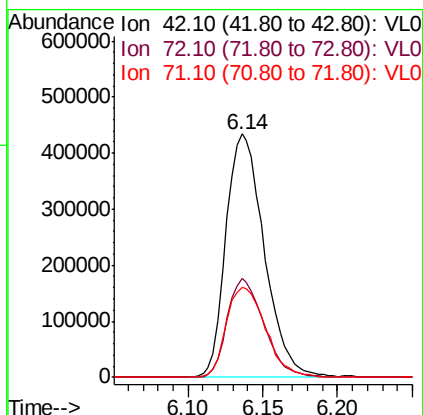
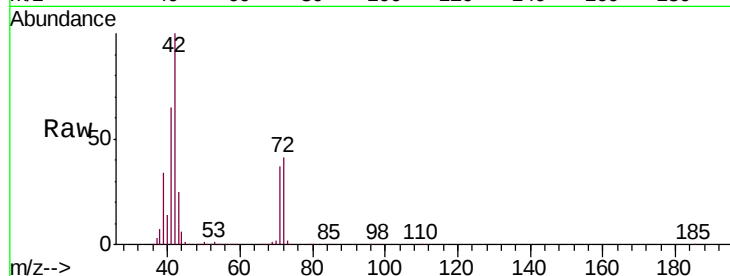




#41
Tetrahydrofuran
Concen: 12.069 ppbv
RT: 6.14 min Scan# 995
Delta R.T. -0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

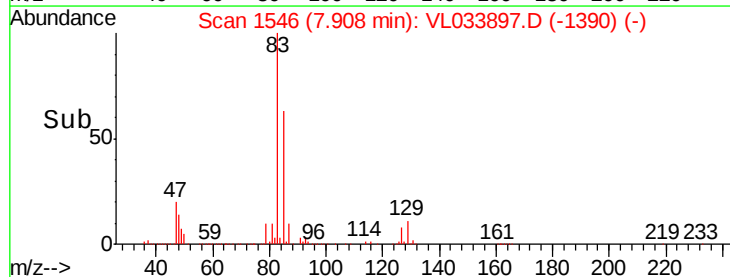
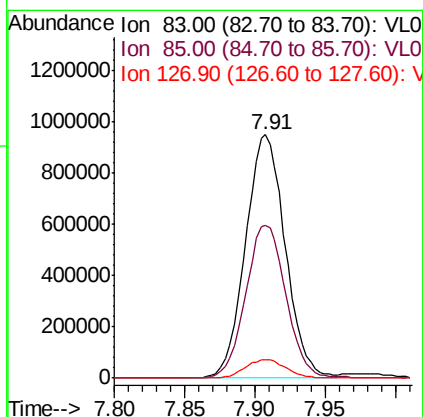
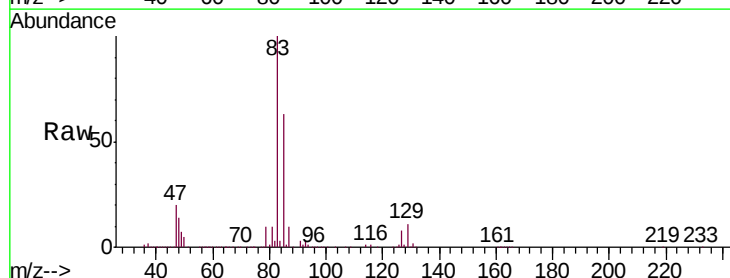
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

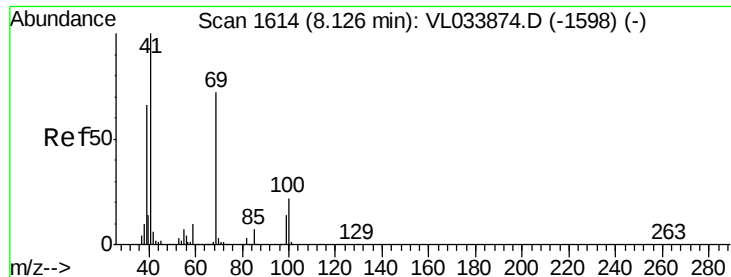
Tgt Ion: 42 Resp: 772321
Ion Ratio Lower Upper
42 100
72 39.4 32.2 48.4
71 38.3 31.7 47.5



#42
Bromodichloromethane
Concen: 11.107 ppbv
RT: 7.91 min Scan# 1546
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion: 83 Resp: 1873931
Ion Ratio Lower Upper
83 100
85 62.7 50.2 75.2
127 7.6 6.5 9.7

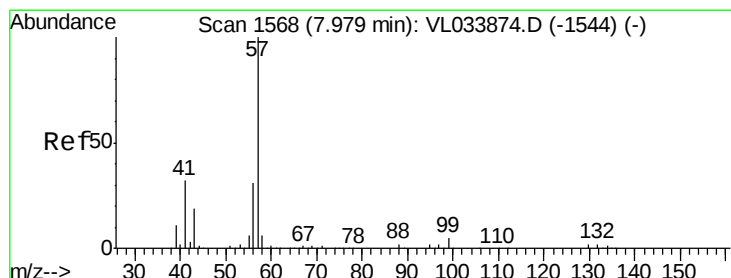
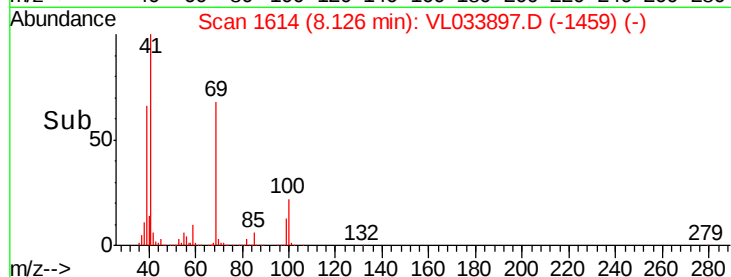
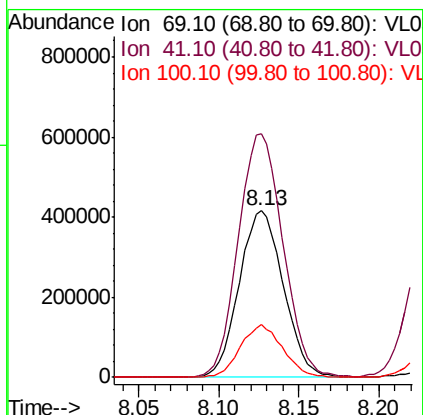
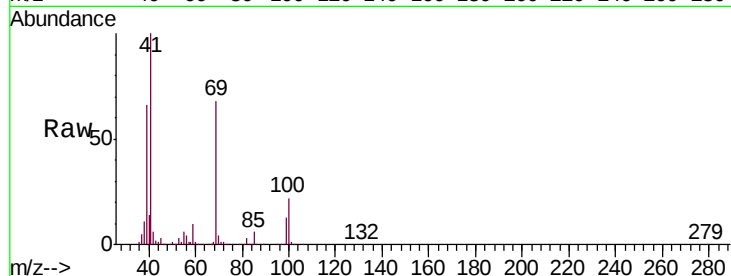




#43
Methyl Methacrylate
Concen: 12.309 ppbv
RT: 8.13 min Scan# 1614
Delta R.T. -0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

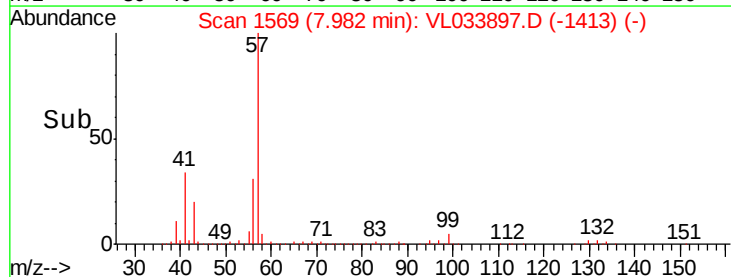
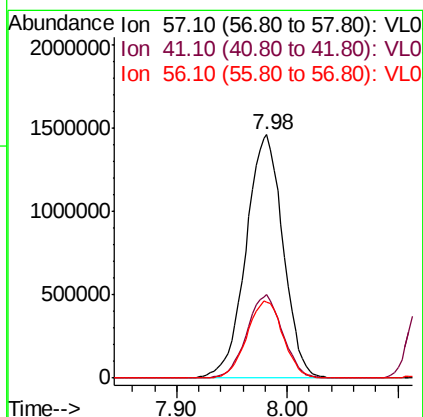
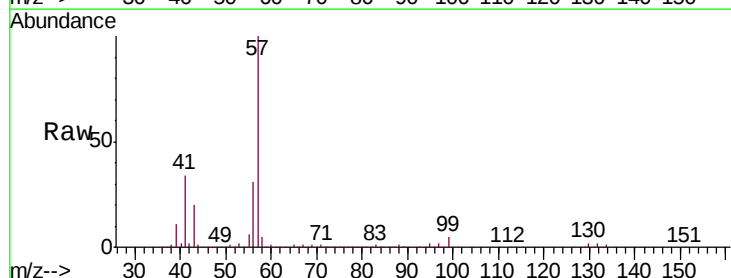
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

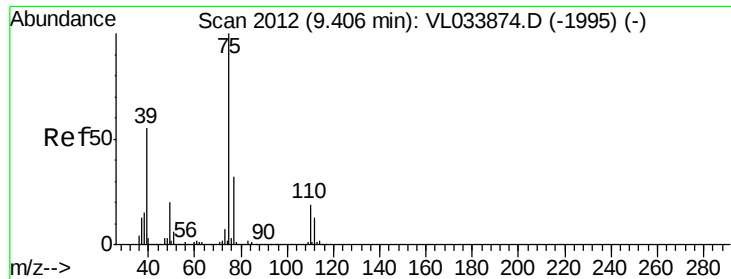
Tgt Ion: 69 Resp: 785894
Ion Ratio Lower Upper
69 100
41 147.9 114.3 171.5
100 30.3 24.8 37.2



#44
2,2,4-Trimethylpentane
Concen: 11.141 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion: 57 Resp: 3382250
Ion Ratio Lower Upper
57 100
41 33.1 26.1 39.1
56 31.1 24.6 36.8





#45

t-1,3-Dichloropropene

Concen: 13.201 ppbv

RT: 9.41 min Scan# 2012

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

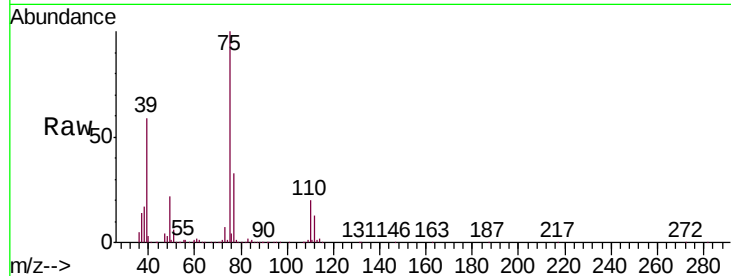
VSTDCCC010EC

Tgt Ion: 75 Resp: 1105934

Ion Ratio Lower Upper

75 100

77 33.2 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

600000

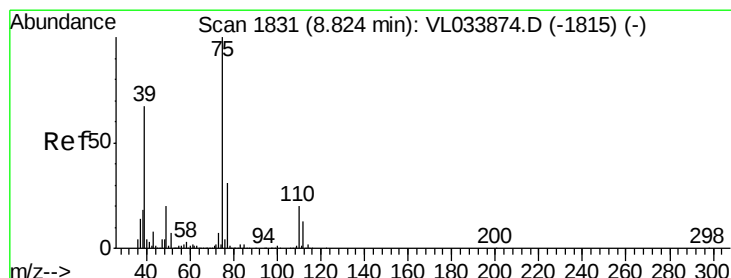
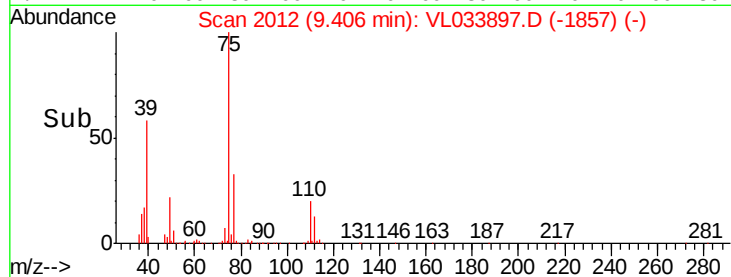
400000

200000

0

9.35 9.40 9.45

Time-->



#46

cis-1,3-Dichloropropene

Concen: 12.958 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

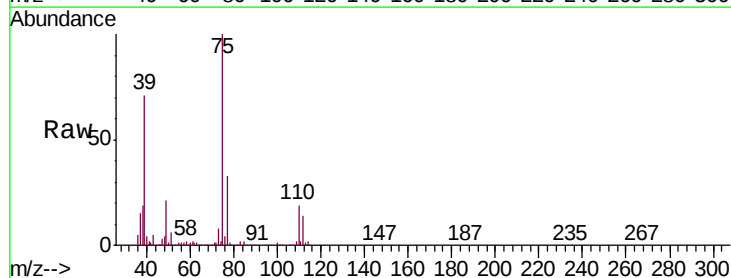
Tgt Ion: 75 Resp: 1243694

Ion Ratio Lower Upper

75 100

39 71.3 53.8 80.8

77 32.7 24.6 36.8



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

8.82

800000

600000

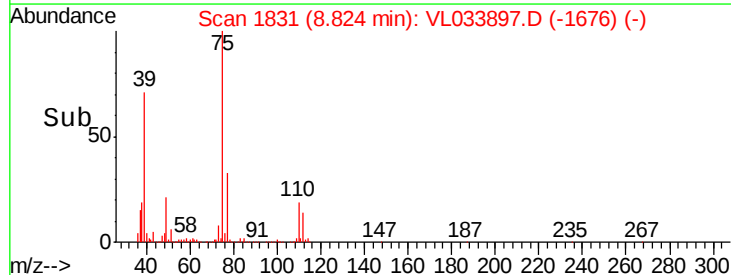
400000

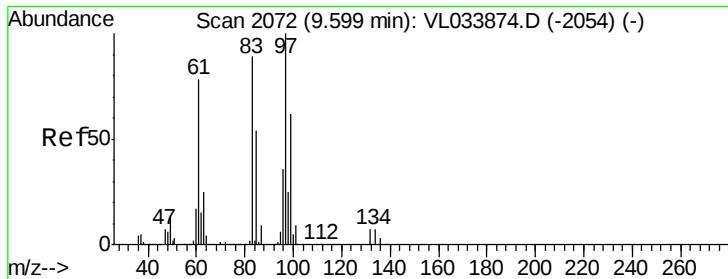
200000

0

8.75 8.80 8.85 8.90

Time-->

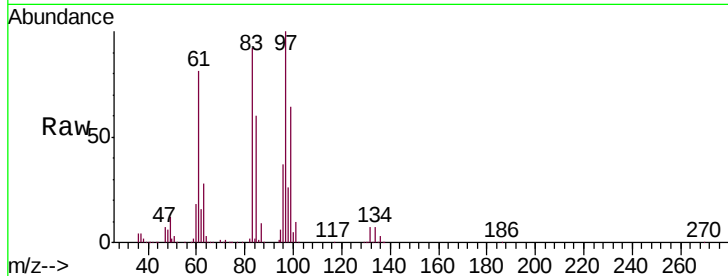




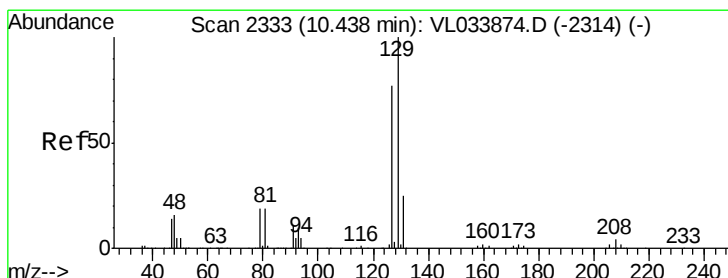
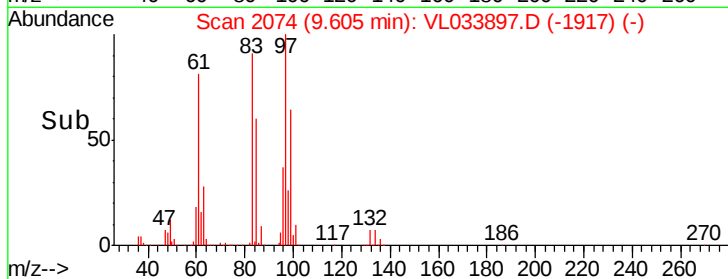
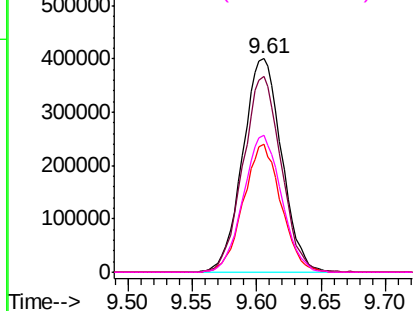
#47
 1,1,2-Trichloroethane
 Concen: 10.747 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. 0.01 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 97 Resp: 844132
 Ion Ratio Lower Upper
 97 100
 83 91.6 70.9 106.3
 85 59.9 43.0 64.6
 99 64.2 49.3 73.9

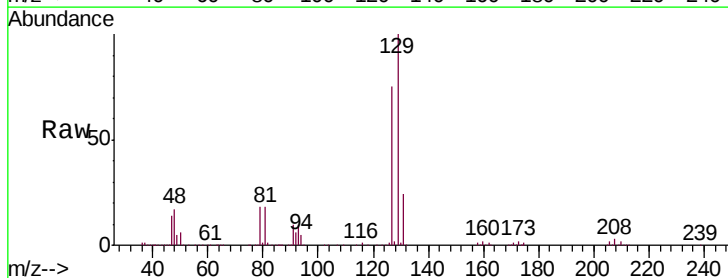


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

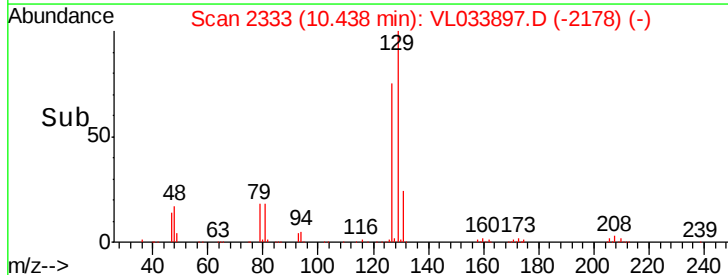
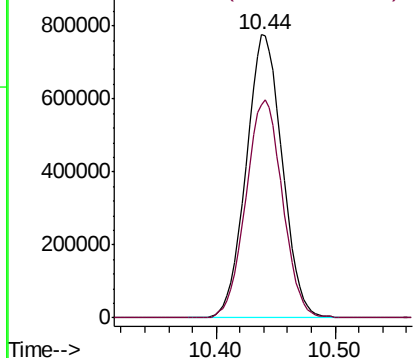


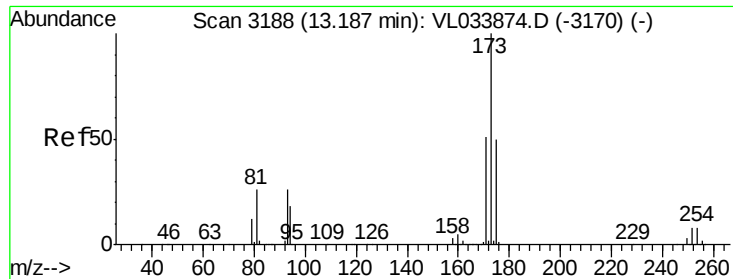
#48
 Dibromochloromethane
 Concen: 11.532 ppbv
 RT: 10.44 min Scan# 2333
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 129 Resp: 1627793
 Ion Ratio Lower Upper
 129 100
 127 78.4 38.6 115.7



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.703 ppbv

RT: 13.19 min Scan# 3189

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

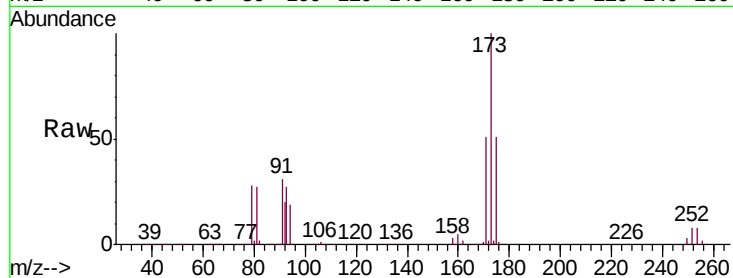
Tgt Ion:173 Resp: 1458329

Ion Ratio Lower Upper

173 100

175 49.0 39.6 59.4

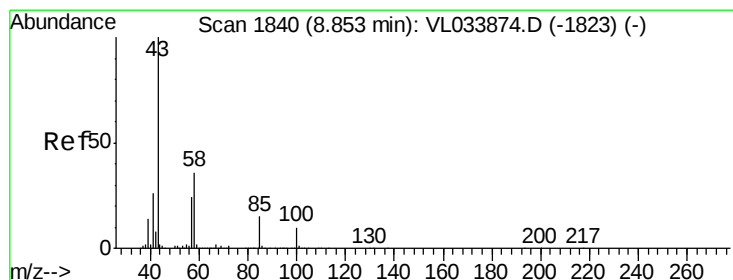
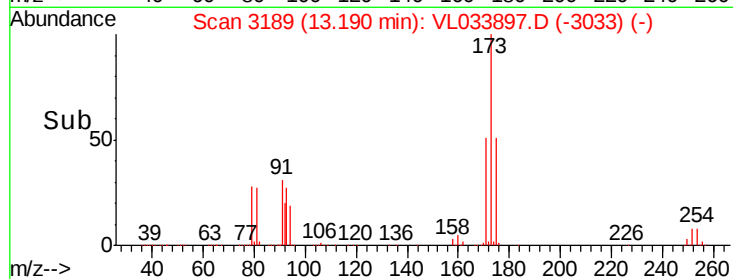
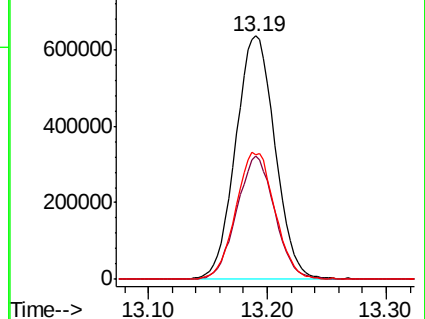
171 51.9 41.8 62.8



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: 11.678 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL033897.D

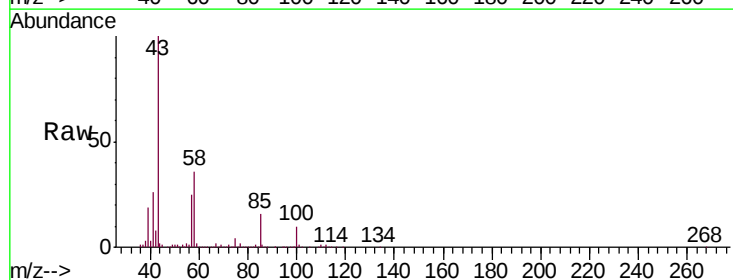
Acq: 7 Jun 2019 20:19

Tgt Ion: 43 Resp: 2195459

Ion Ratio Lower Upper

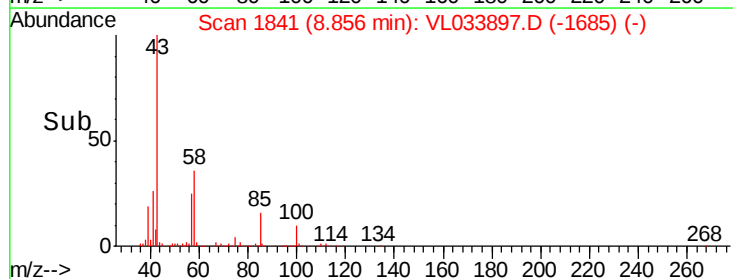
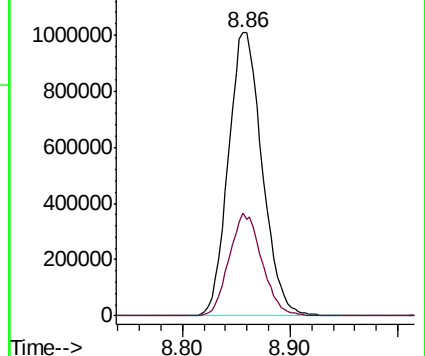
43 100

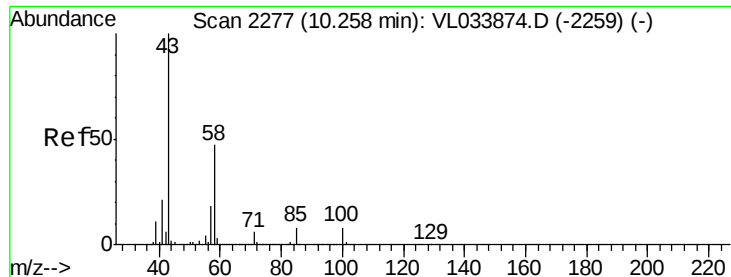
58 35.4 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.165 ppbv

RT: 10.26 min Scan# 2277

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

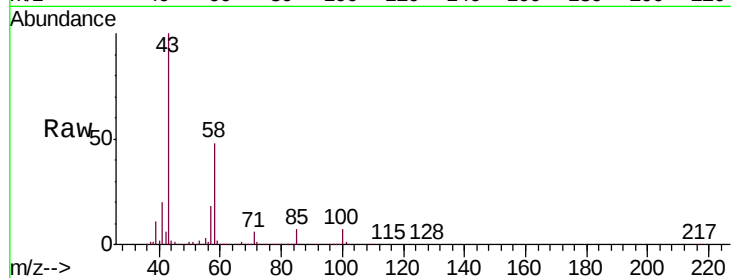
Tgt Ion: 43 Resp: 1785893

Ion Ratio Lower Upper

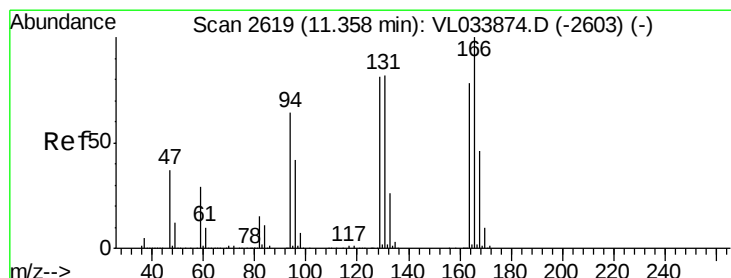
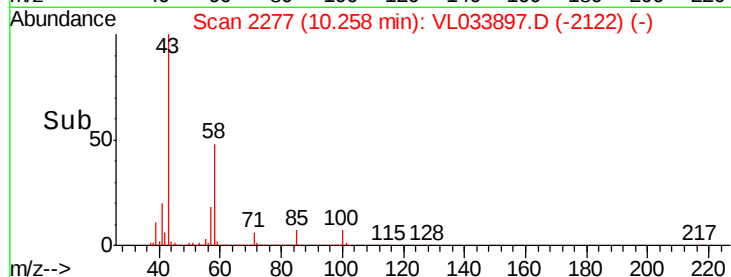
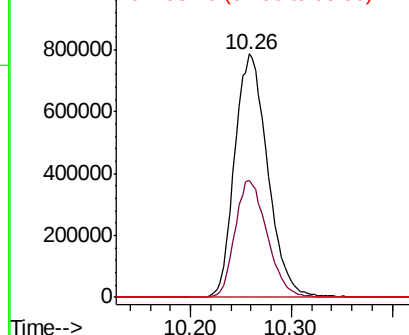
43 100

58 46.9 38.2 57.4

98 0.4 0.2 0.2#



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



#52

Tetrachloroethene

Concen: 13.134 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Tgt Ion: 164 Resp: 788937

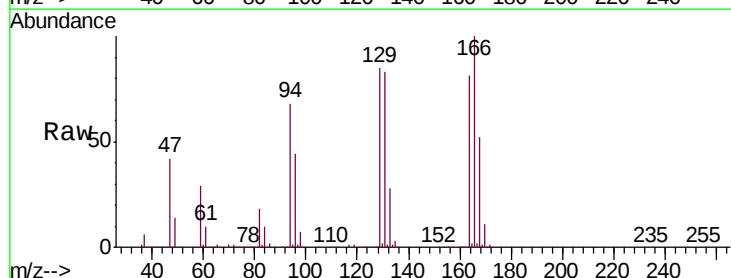
Ion Ratio Lower Upper

164 100

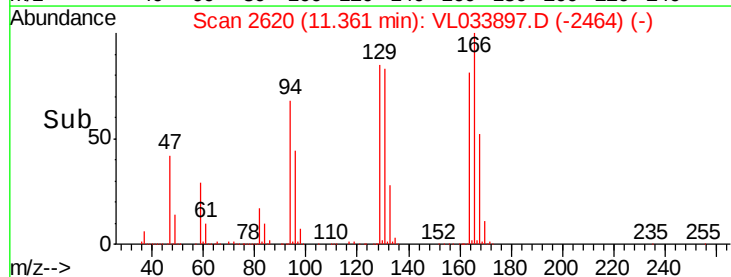
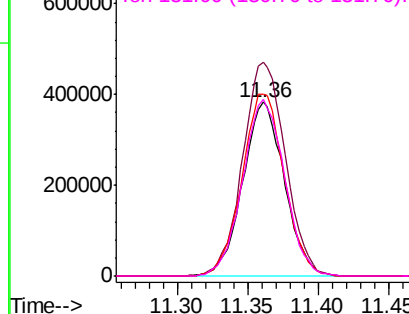
166 122.7 103.1 154.7

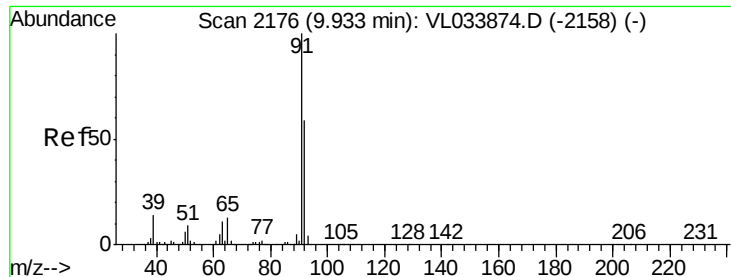
129 104.7 83.9 125.9

131 101.9 85.1 127.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 12.286 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

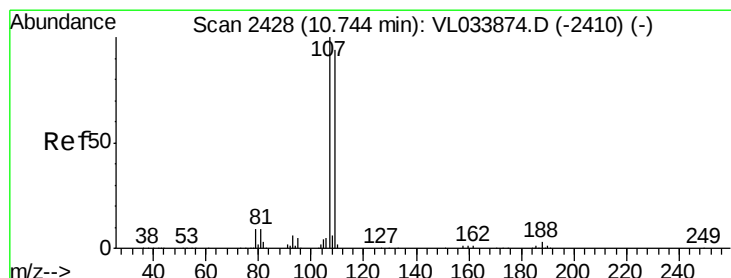
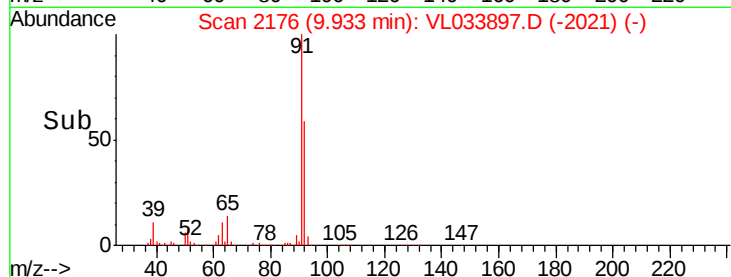
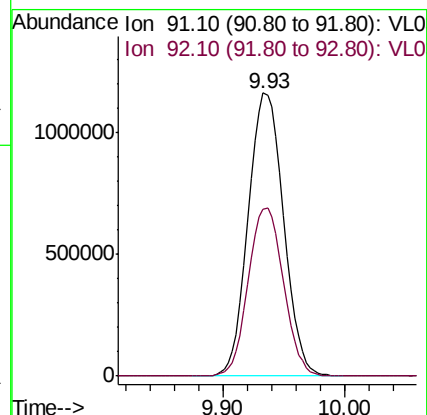
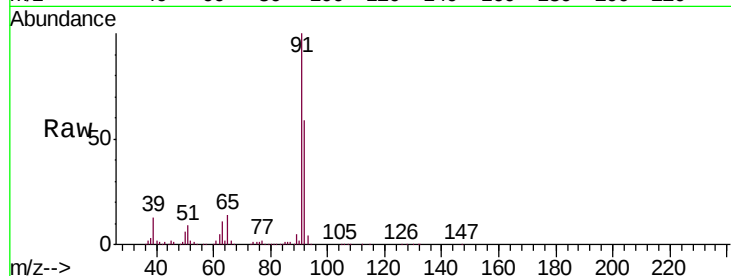
VSTDCCC010EC

Tgt Ion: 91 Resp: 2321048

Ion Ratio Lower Upper

91 100

92 59.4 47.0 70.6



#54

1,2-Dibromoethane

Concen: 11.378 ppbv

RT: 10.75 min Scan# 2429

Delta R.T. 0.00 min

Lab File: VL033897.D

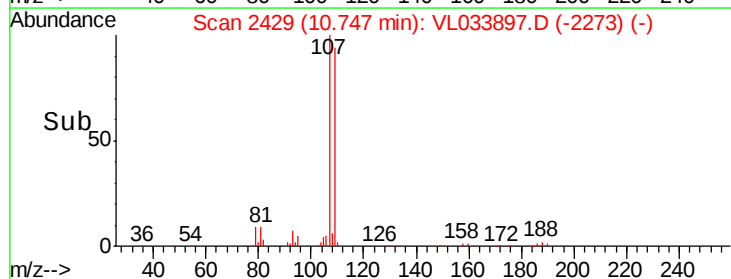
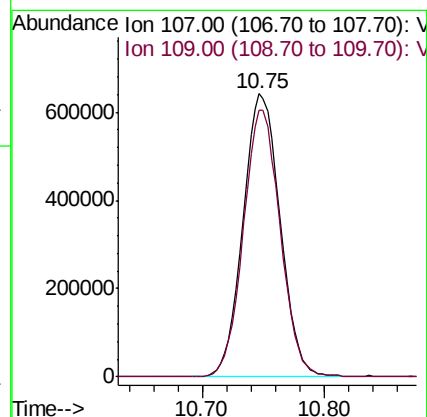
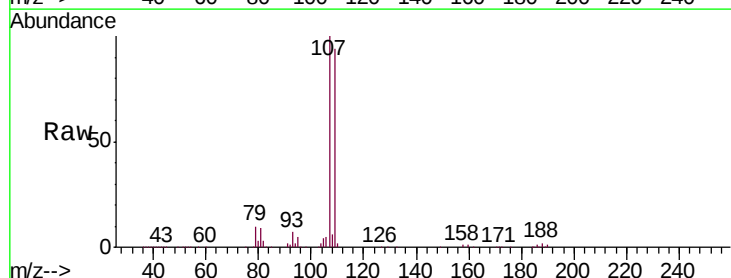
Acq: 7 Jun 2019 20:19

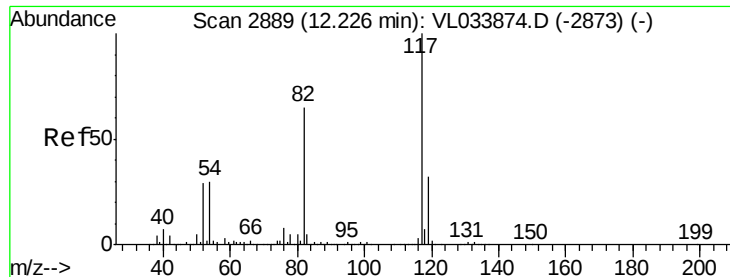
Tgt Ion: 107 Resp: 1347225

Ion Ratio Lower Upper

107 100

109 93.9 74.9 112.3

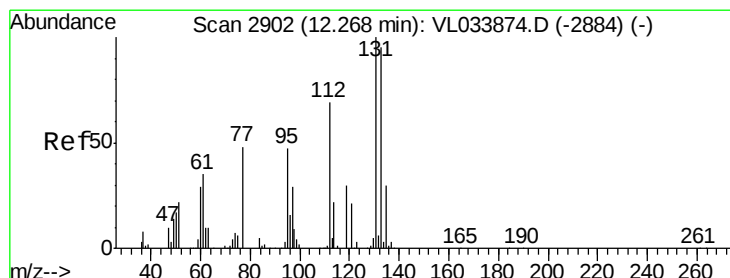
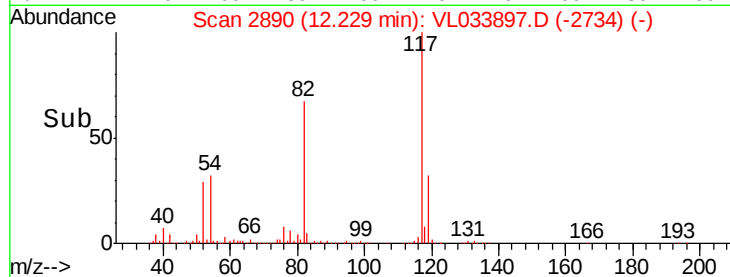
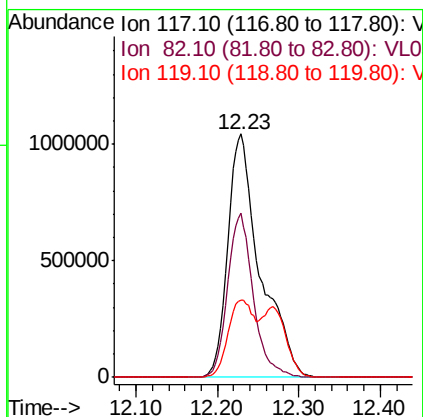
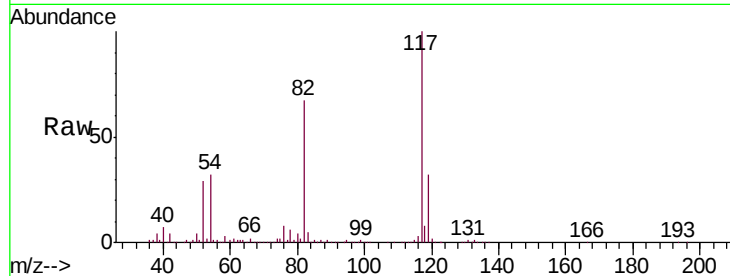




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

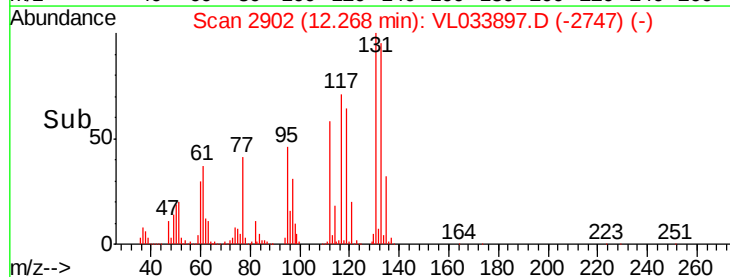
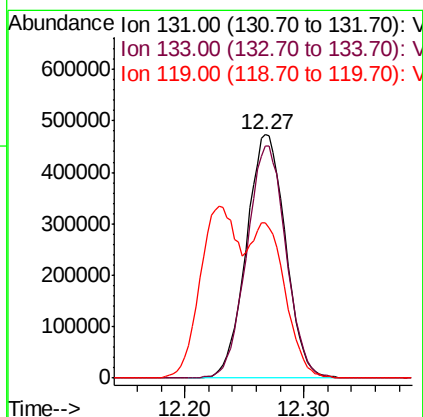
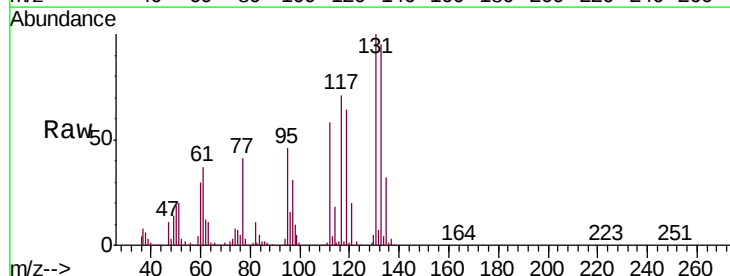
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

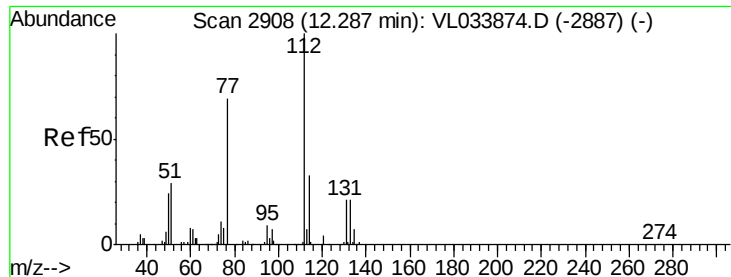
Tgt Ion:117 Resp: 2908795
Ion Ratio Lower Upper
117 100
82 53.7 50.2 75.2
119 26.8 24.8 37.2



#56
1,1,1,2-Tetrachloroethane
Concen: 8.475 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion:131 Resp: 1076870
Ion Ratio Lower Upper
131 100
133 95.7 76.5 114.7
119 56.0 42.6 64.0

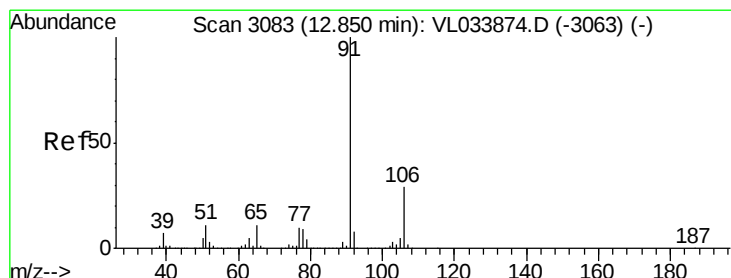
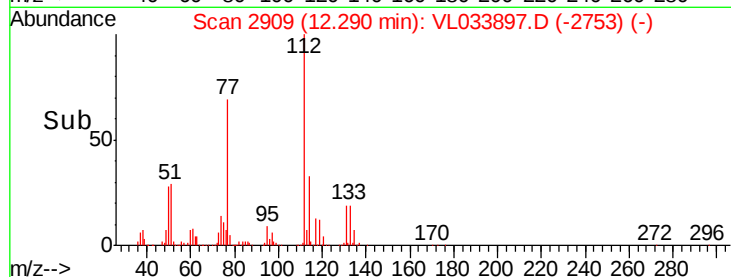
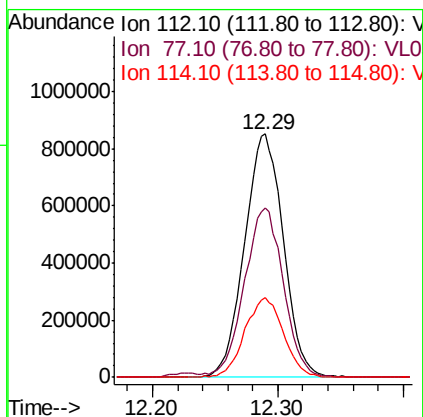
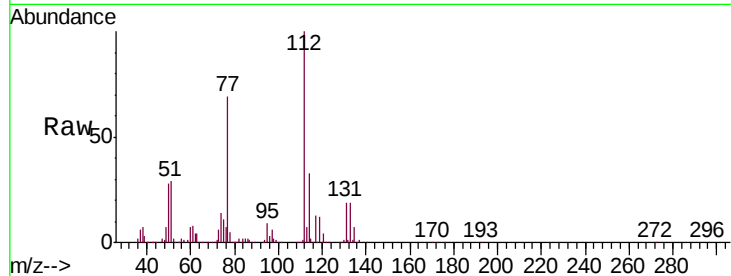




#57
Chlorobenzene
Concen: 8.417 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

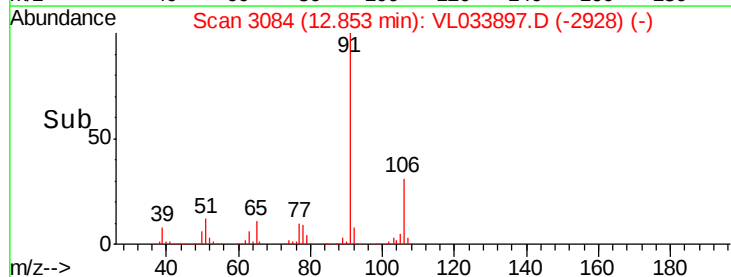
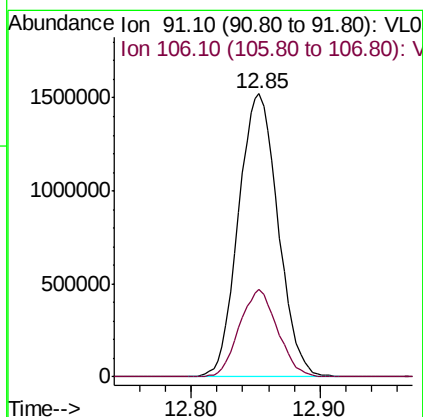
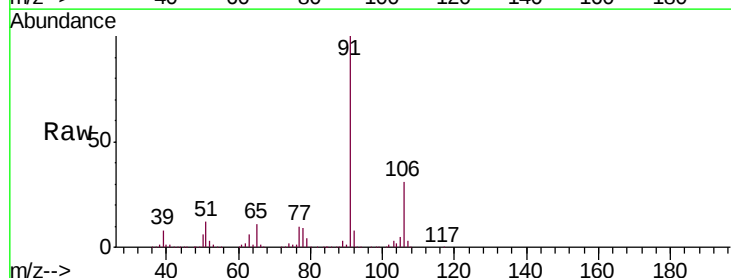
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

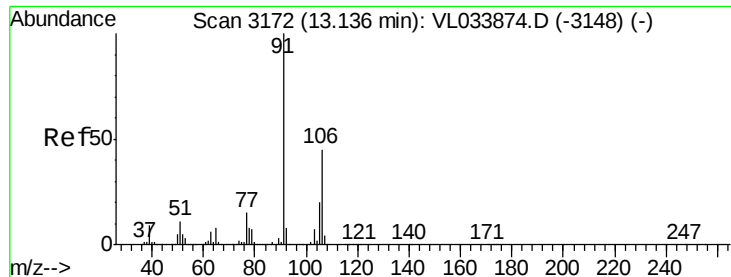
Tgt Ion: 112 Resp: 1833671
Ion Ratio Lower Upper
112 100
77 69.1 55.8 83.6
114 32.6 29.8 36.4



#58
Ethyl Benzene
Concen: 9.907 ppbv
RT: 12.85 min Scan# 3084
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion: 91 Resp: 3249131
Ion Ratio Lower Upper
91 100
106 31.0 23.0 34.6





#59

m/p-Xylene

Concen: 9.646 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

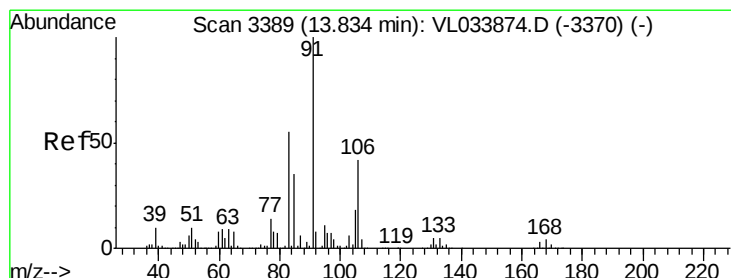
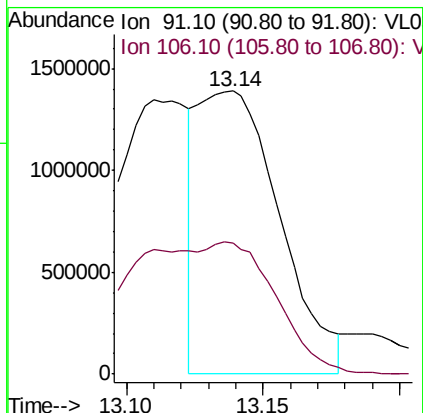
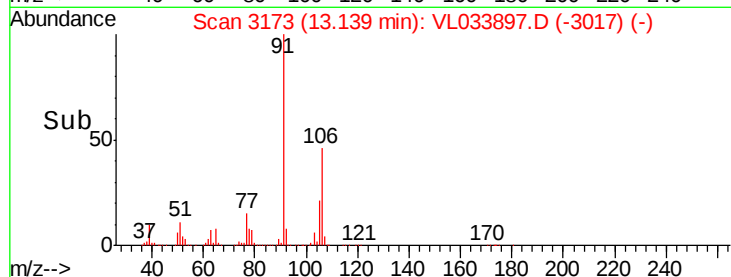
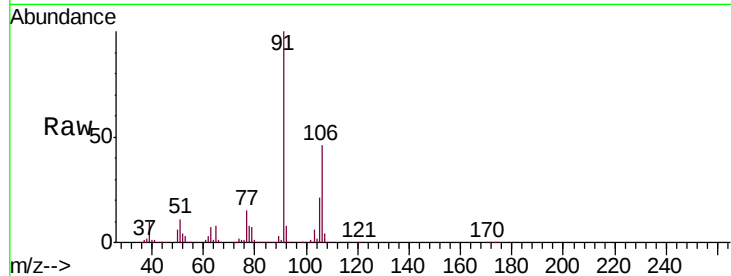
VSTDCCC010EC

Tgt Ion: 91 Resp: 2876570

Ion Ratio Lower Upper

91 100

106 86.0 35.8 53.8#



#60

o-Xylene

Concen: 9.124 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL033897.D

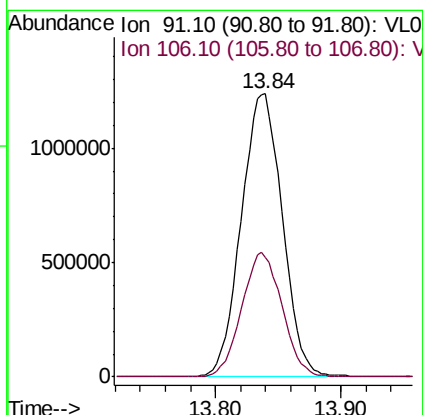
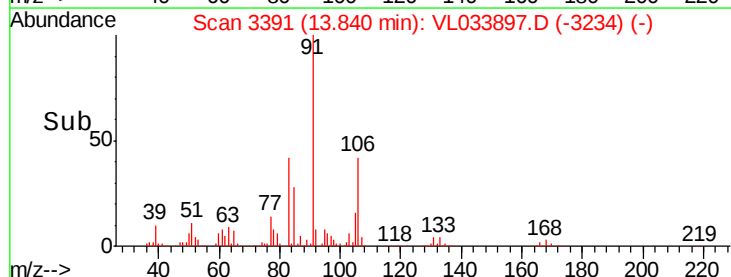
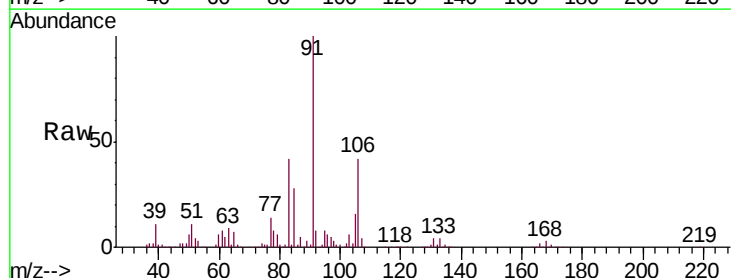
Acq: 7 Jun 2019 20:19

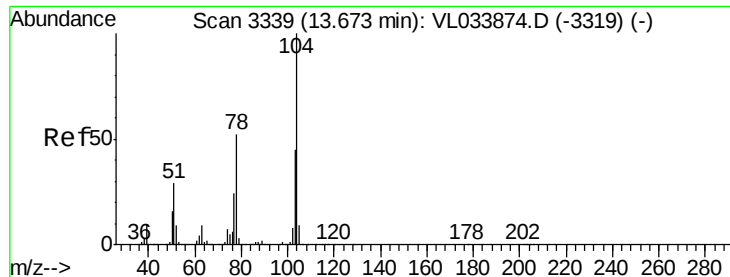
Tgt Ion: 91 Resp: 2809519

Ion Ratio Lower Upper

91 100

106 43.5 21.7 65.1





#61

Styrene

Concen: 10.133 ppbv

RT: 13.67 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

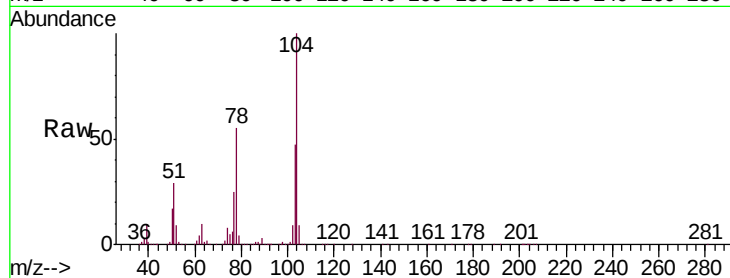
Tgt Ion:104 Resp: 2019187

Ion Ratio Lower Upper

104 100

78 55.6 43.4 65.0

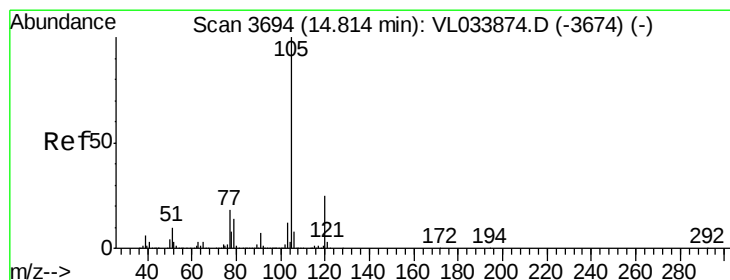
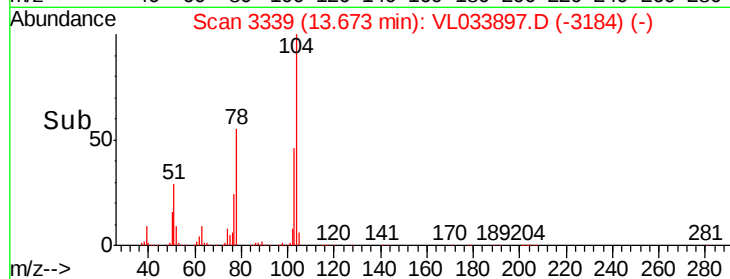
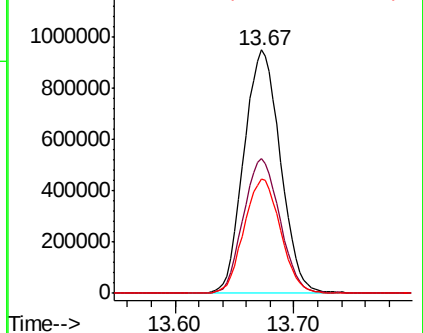
103 47.0 37.6 56.4



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: 9.049 ppbv

RT: 14.81 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VL033897.D

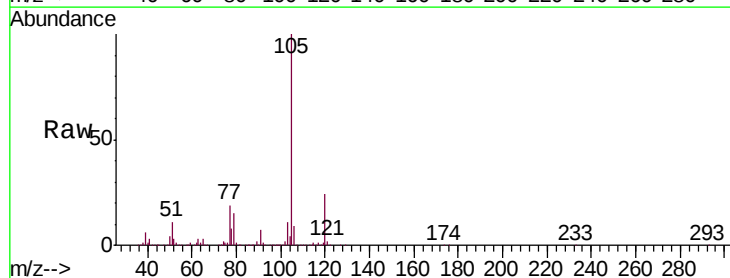
Acq: 7 Jun 2019 20:19

Tgt Ion:105 Resp: 3755372

Ion Ratio Lower Upper

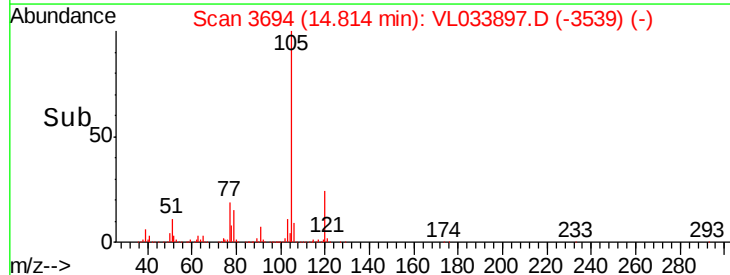
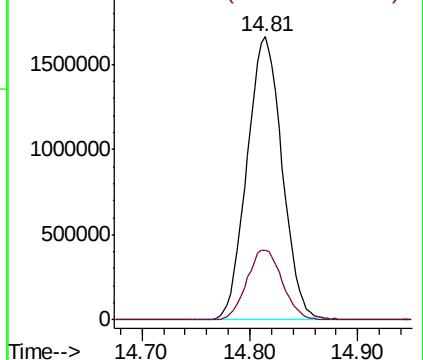
105 100

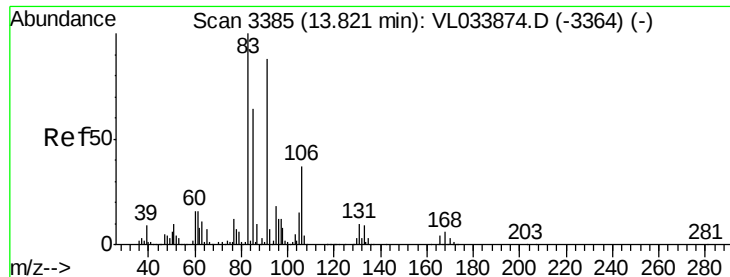
120 25.0 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.555 ppbv

RT: 13.83 min Scan# 3387

Delta R.T. 0.01 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

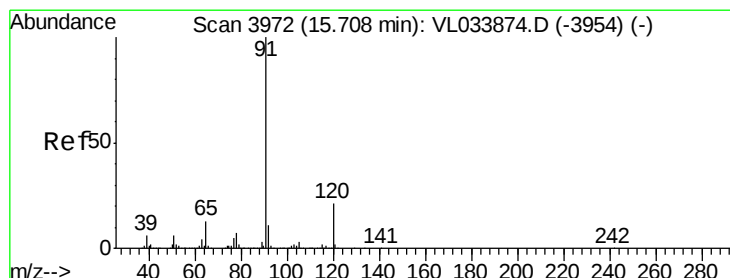
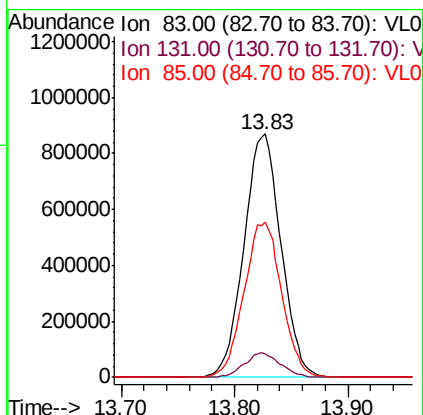
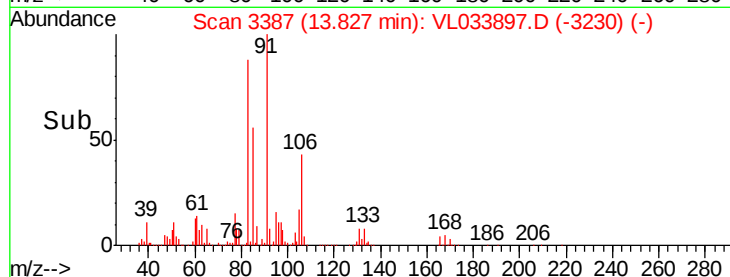
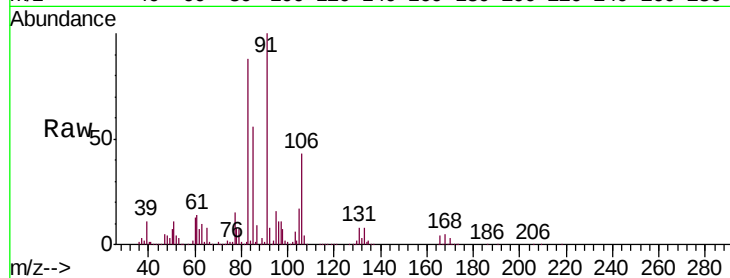
Tgt Ion: 83 Resp: 1982981

Ion Ratio Lower Upper

83 100

131 9.8 4.8 14.4

85 64.6 32.1 96.3



#64

n-propylbenzene

Concen: 9.147 ppbv

RT: 15.71 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL033897.D

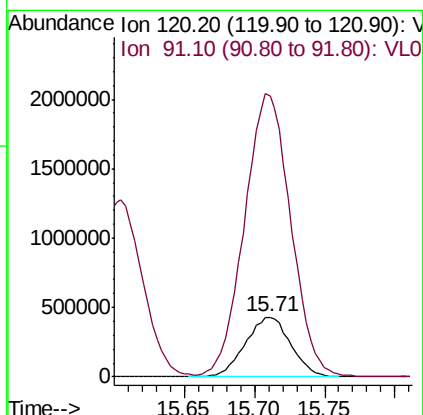
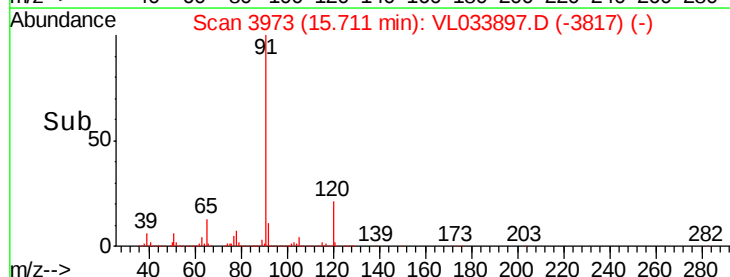
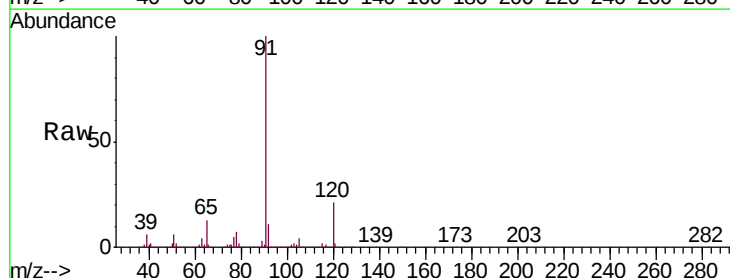
Acq: 7 Jun 2019 20:19

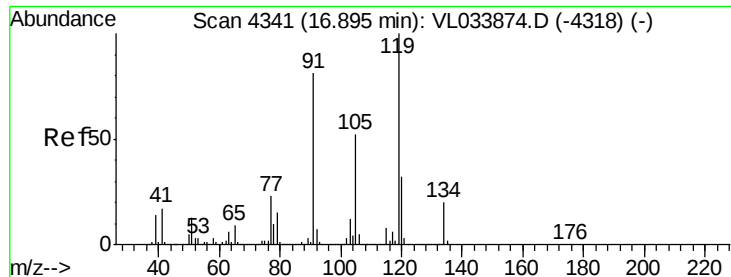
Tgt Ion: 120 Resp: 972098

Ion Ratio Lower Upper

120 100

91 483.9 387.0 580.6

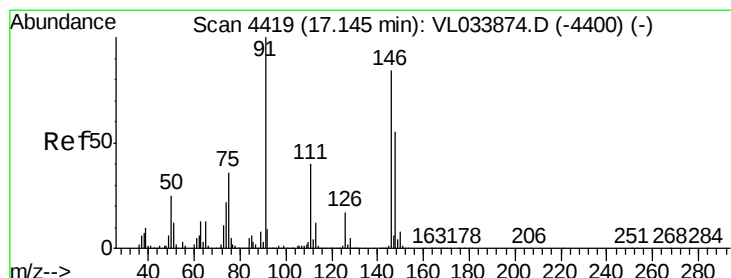
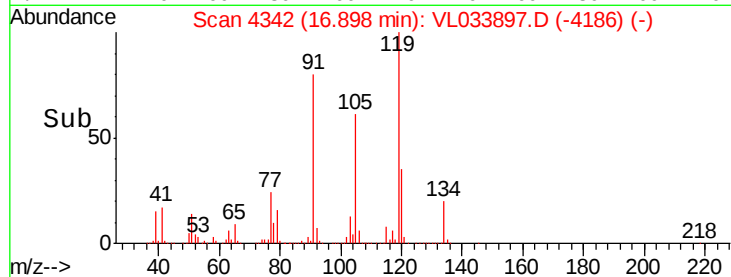
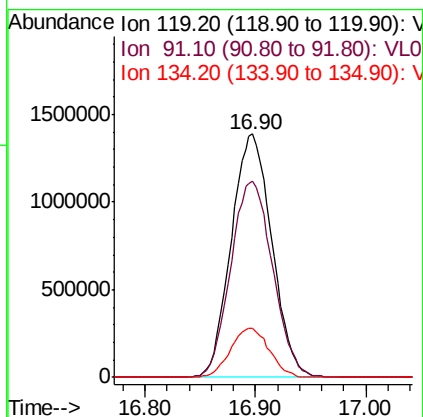
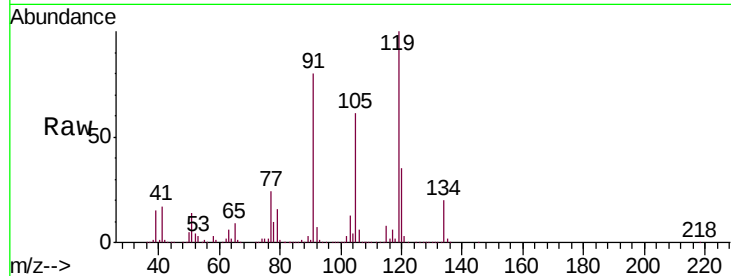




#65
tert-Butylbenzene
Concen: 9.218 ppbv
RT: 16.90 min Scan# 4342
Delta R.T. 0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

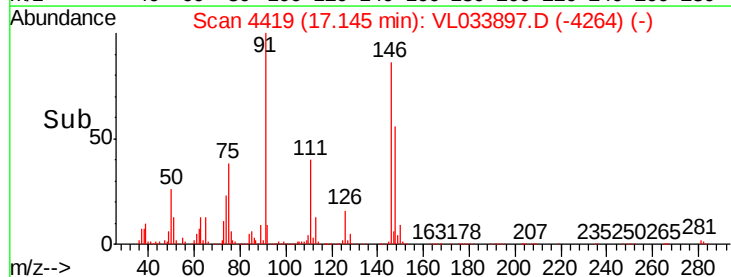
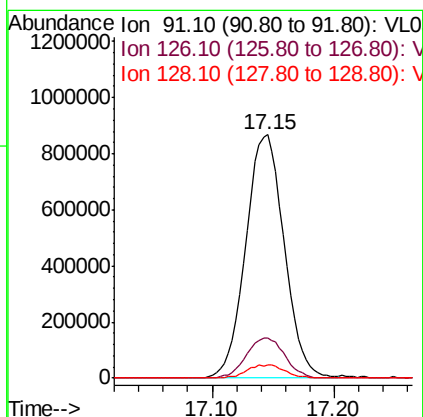
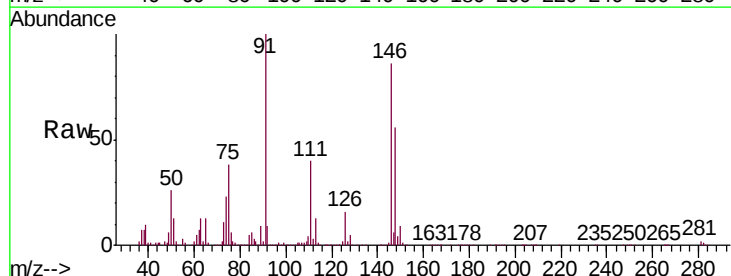
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

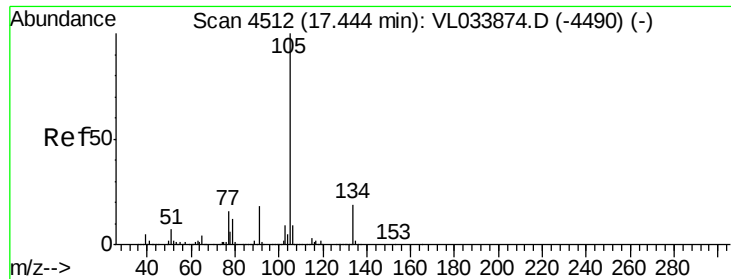
Tgt Ion: 119 Resp: 3539733
Ion Ratio Lower Upper
119 100
91 83.5 66.6 100.0
134 19.4 15.5 23.3



#66
Benzyl Chloride
Concen: 9.678 ppbv
RT: 17.15 min Scan# 4419
Delta R.T. -0.00 min
Lab File: VL033897.D
Acq: 7 Jun 2019 20:19

Tgt Ion: 91 Resp: 1883314
Ion Ratio Lower Upper
91 100
126 16.7 13.8 20.6
128 5.4 4.4 6.6

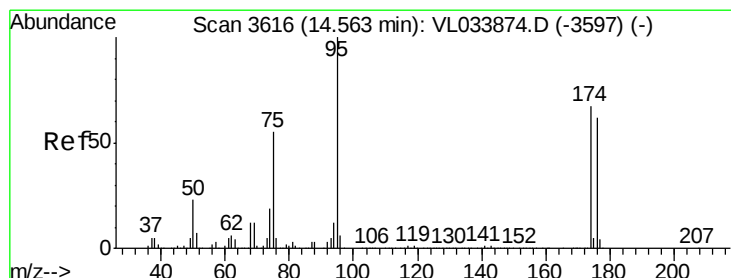
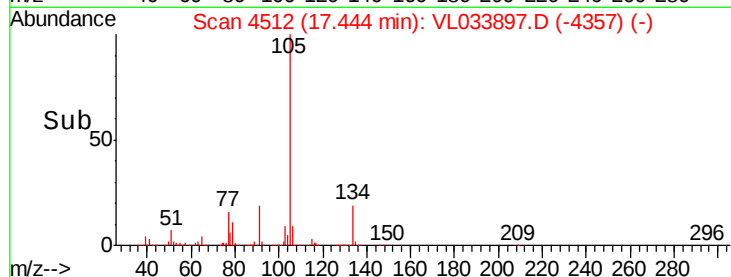
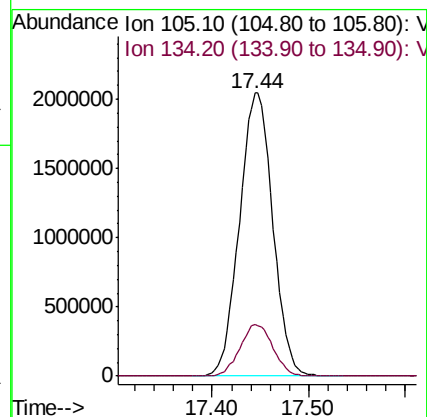
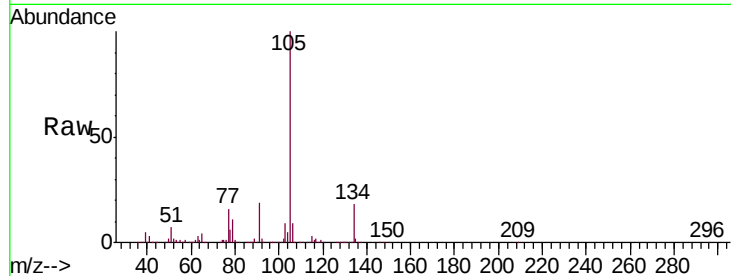




#67
 sec-Butylbenzene
 Concen: 9.068 ppbv
 RT: 17.44 min Scan# 4512
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

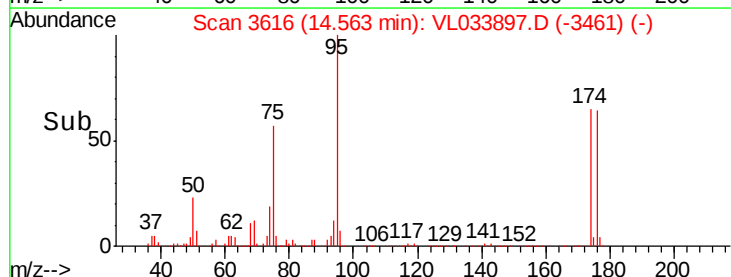
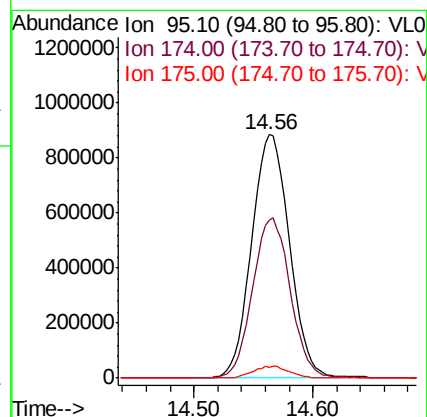
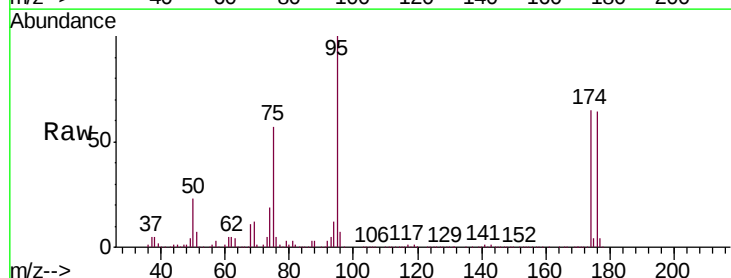
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

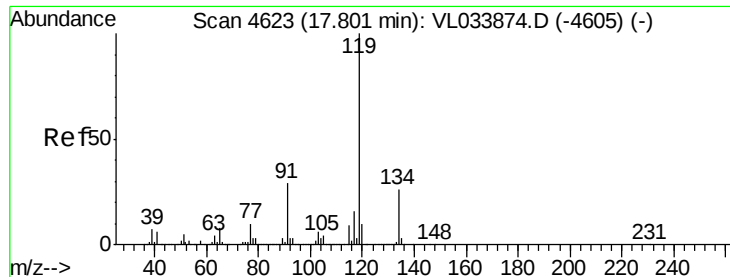
Tgt Ion: 105 Resp: 4885187
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 22.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.152 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 95 Resp: 1947790
 Ion Ratio Lower Upper
 95 100
 174 65.9 54.0 81.0
 175 4.8 3.8 5.8

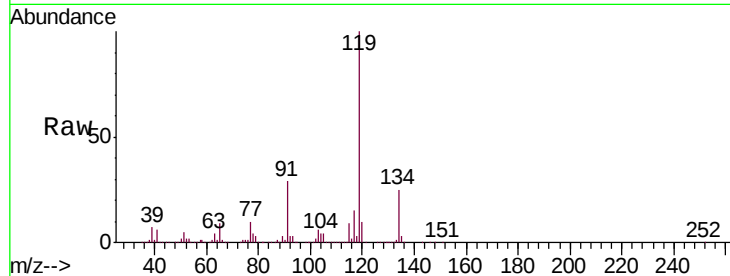




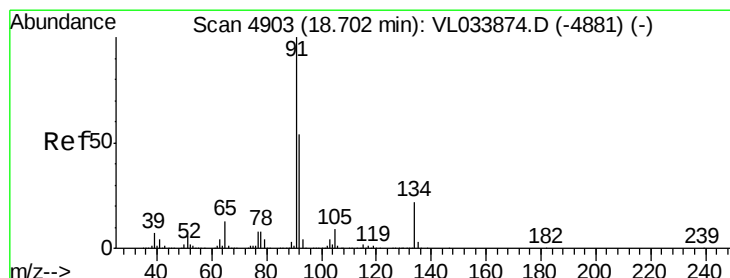
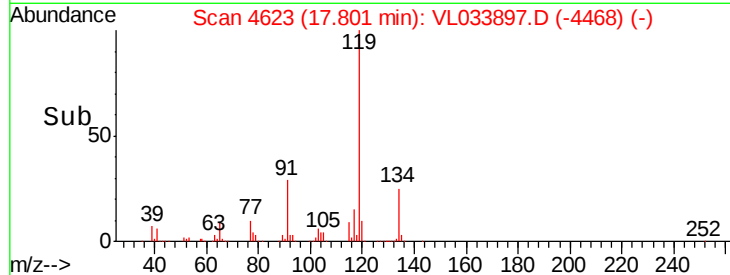
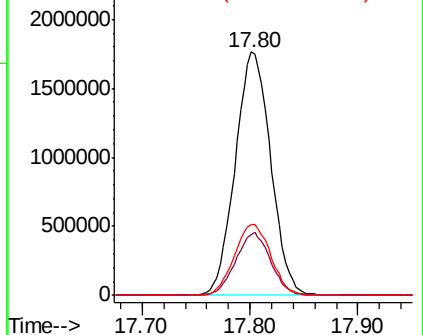
#69
 p-Isopropyltoluene
 Concen: 8.992 ppbv
 RT: 17.80 min Scan# 4623
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 119 Resp: 4030265
 Ion Ratio Lower Upper
 119 100
 134 25.3 20.3 30.5
 91 30.0 23.8 35.6

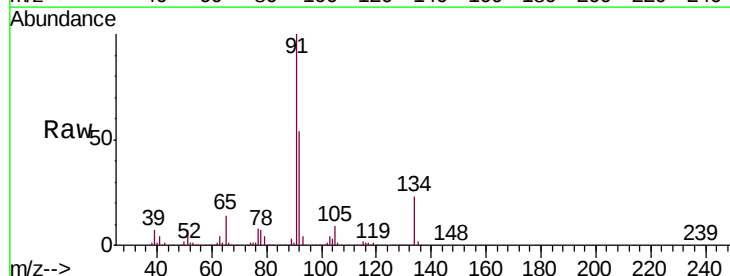


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

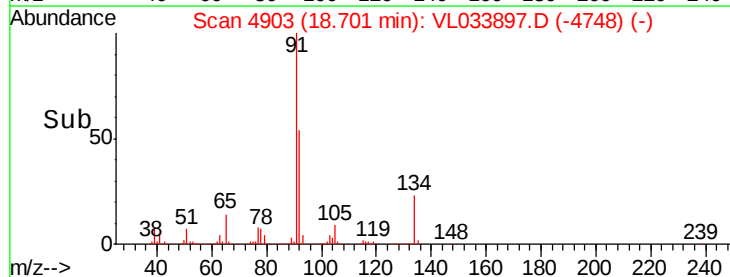
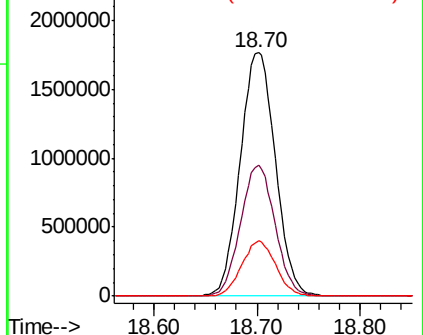


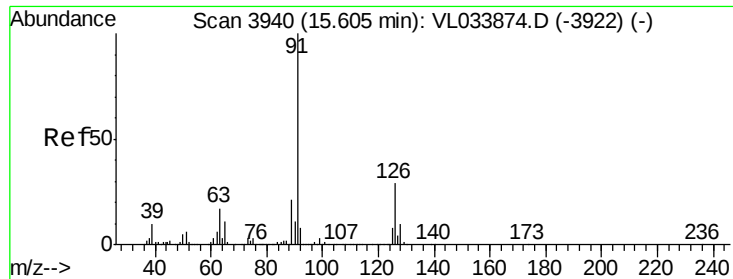
#70
 n-Butylbenzene
 Concen: 8.505 ppbv
 RT: 18.70 min Scan# 4903
 Delta R.T. -0.00 min
 Lab File: VL033897.D
 Acq: 7 Jun 2019 20:19

Tgt Ion: 91 Resp: 4175561
 Ion Ratio Lower Upper
 91 100
 92 52.8 42.5 63.7
 134 21.9 17.8 26.6



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: 9.389 ppbv

RT: 15.61 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

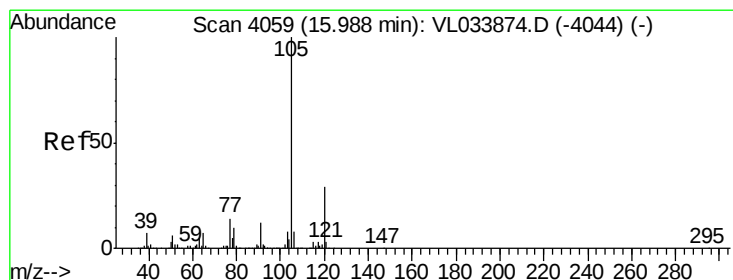
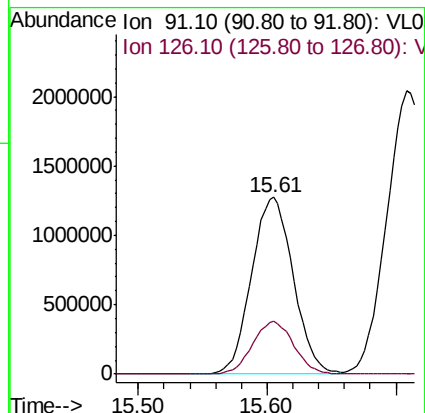
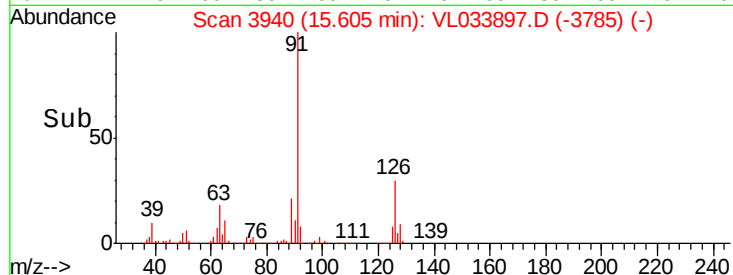
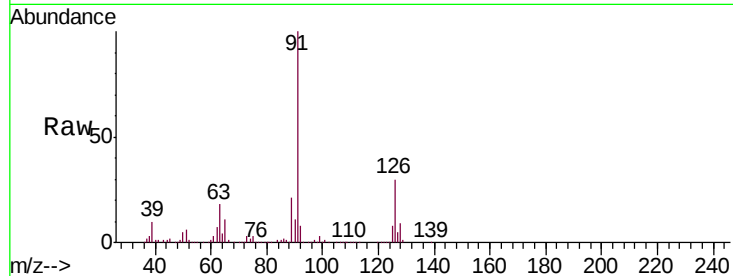
VSTDCCC010EC

Tgt Ion: 91 Resp: 2870650

Ion Ratio Lower Upper

91 100

126 29.7 12.0 48.2



#72

4-Ethyltoluene

Concen: 9.403 ppbv

RT: 15.99 min Scan# 4059

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Tgt Ion: 105 Resp: 3294706

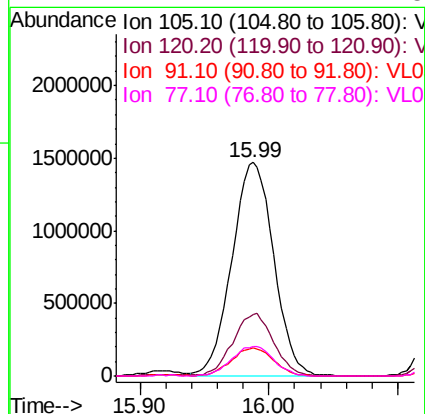
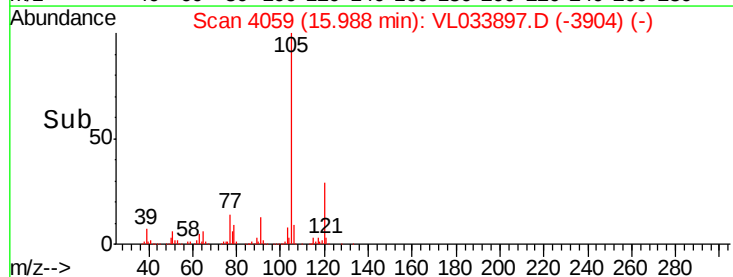
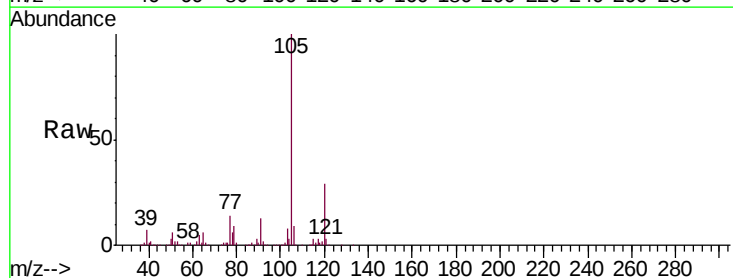
Ion Ratio Lower Upper

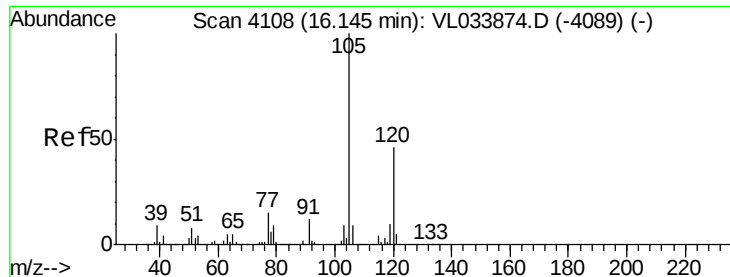
105 100

120 28.7 23.5 35.3

91 13.4 10.4 15.6

77 14.2 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 9.234 ppbv

RT: 16.15 min Scan# 4108

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

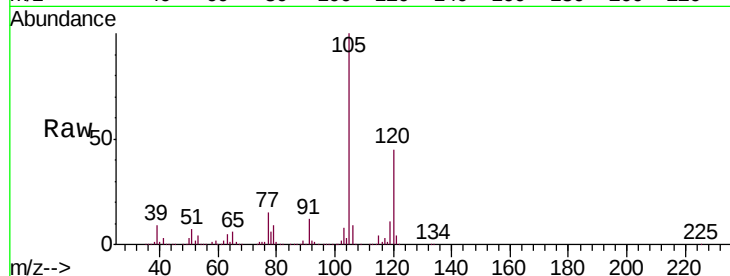
VSTDCCC010EC

Tgt Ion:105 Resp: 3187043

Ion Ratio Lower Upper

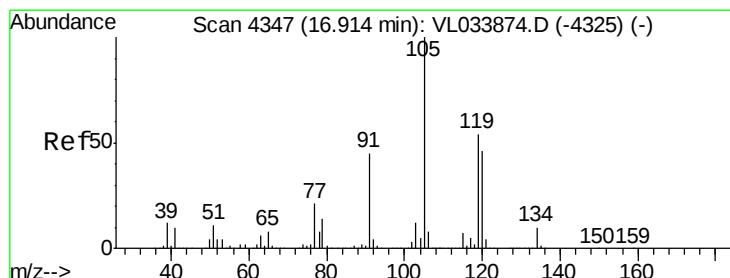
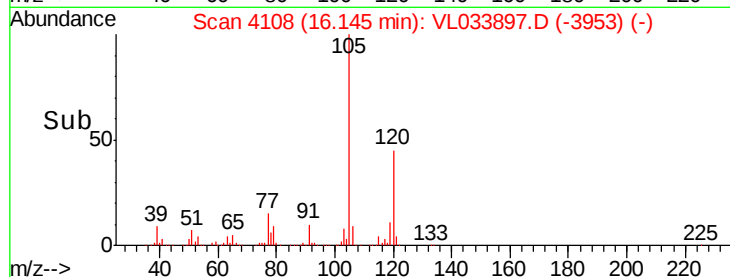
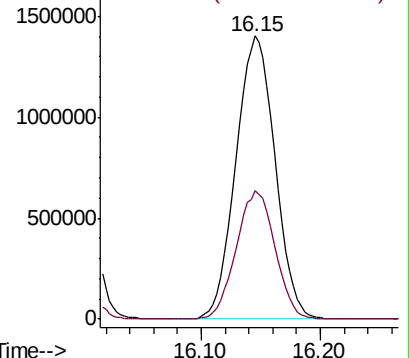
105 100

120 45.3 37.1 55.7



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: 8.526 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Tgt Ion:105 Resp: 3391755

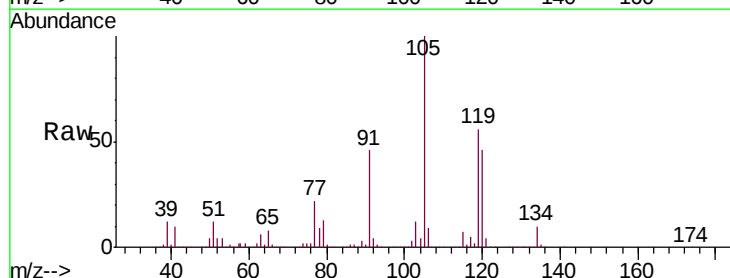
Ion Ratio Lower Upper

105 100

120 45.6 36.7 55.1

91 46.2 35.8 53.8

77 21.7 16.9 25.3

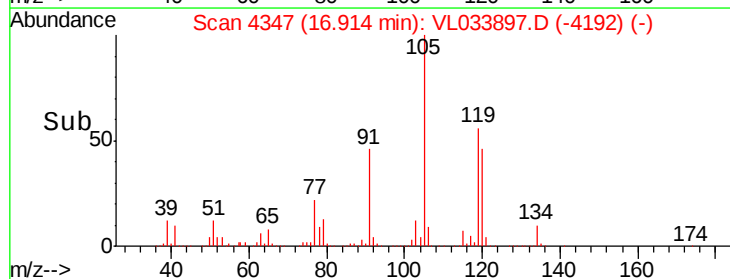
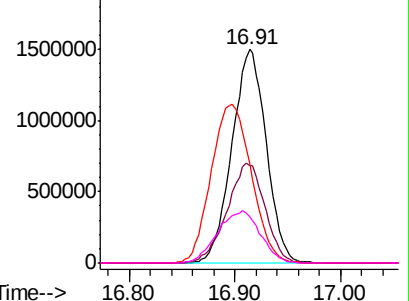


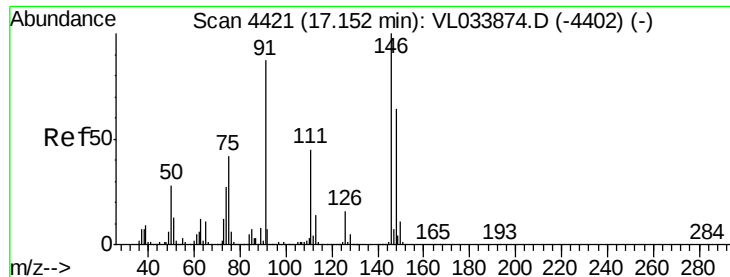
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.776 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

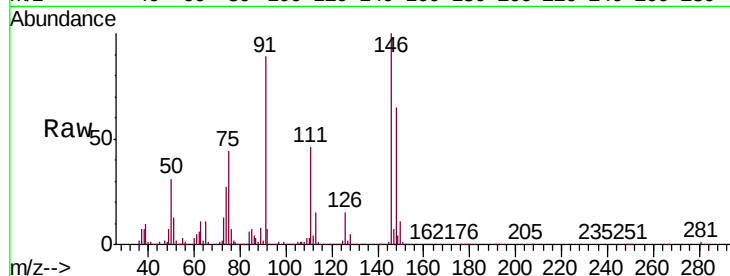
Tgt Ion:146 Resp: 1937310

Ion Ratio Lower Upper

146 100

111 45.9 22.8 68.3

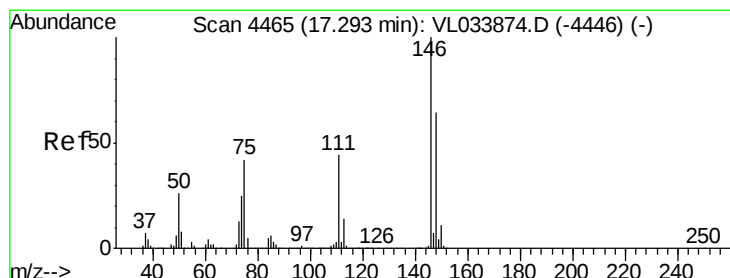
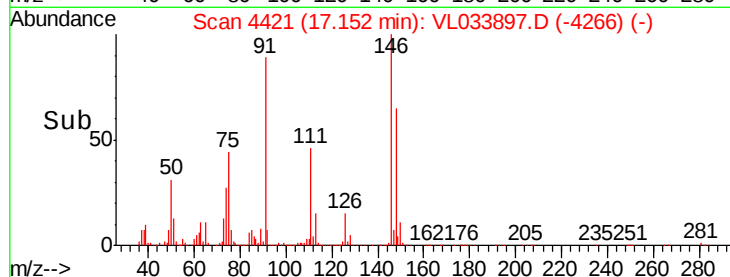
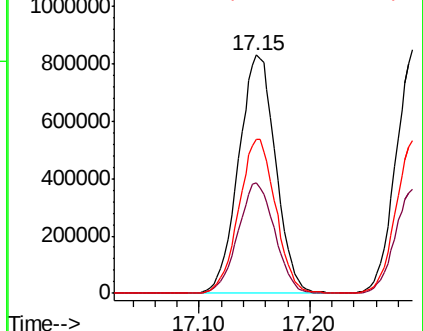
148 64.0 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.298 ppbv

RT: 17.29 min Scan# 4465

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

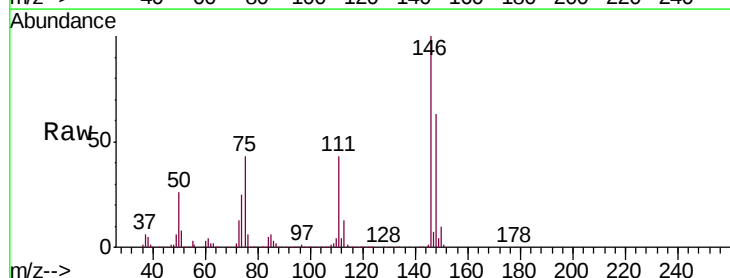
Tgt Ion:146 Resp: 1898201

Ion Ratio Lower Upper

146 100

111 44.4 22.1 66.5

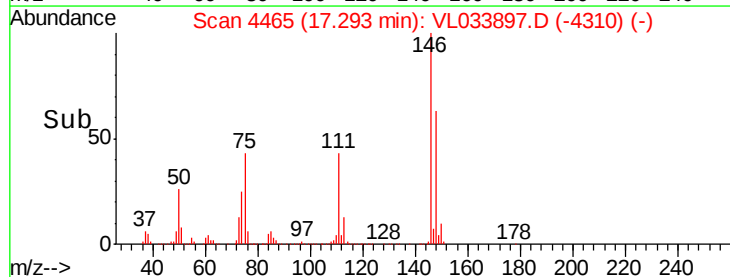
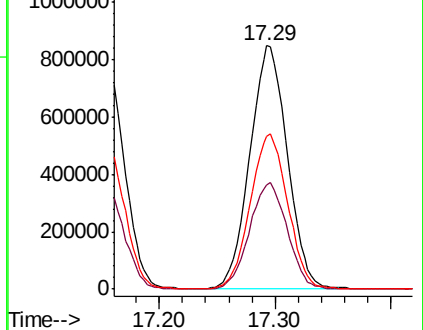
148 64.3 32.4 97.0

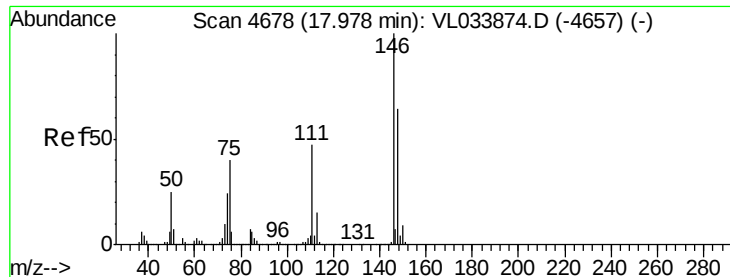


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.085 ppbv

RT: 17.97 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

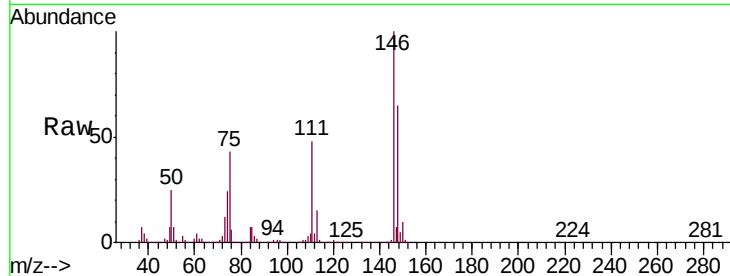
Tgt Ion:146 Resp: 1858779

Ion Ratio Lower Upper

146 100

111 47.5 23.4 70.0

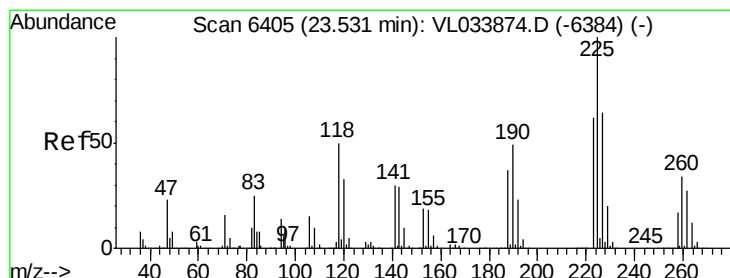
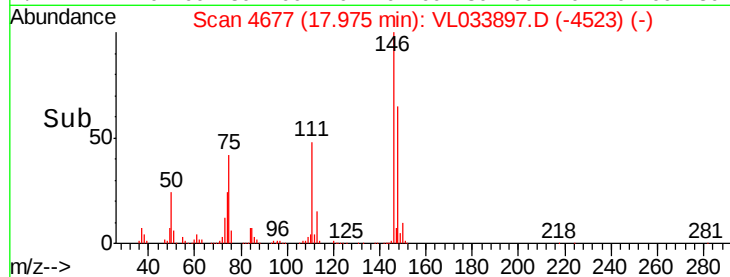
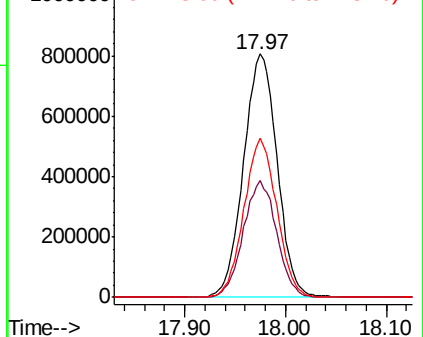
148 64.0 31.8 95.4



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: 6.395 ppbv

RT: 23.53 min Scan# 6404

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

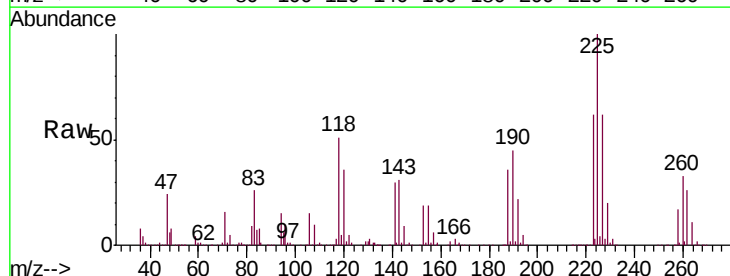
Tgt Ion:225 Resp: 1148395

Ion Ratio Lower Upper

225 100

223 62.5 50.8 76.2

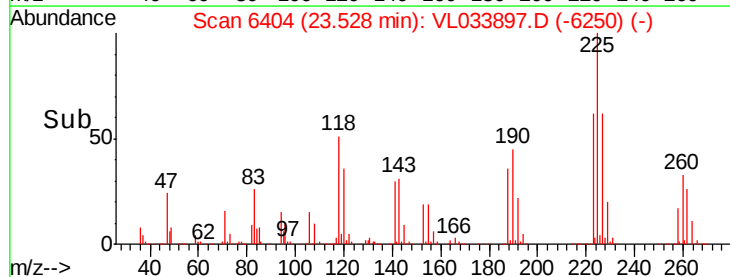
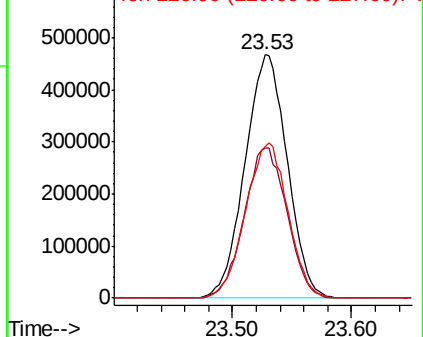
227 64.0 51.8 77.6

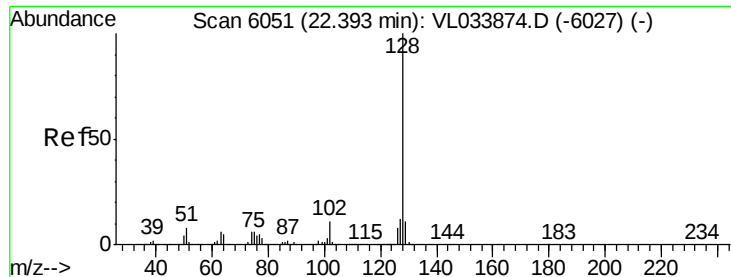


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.186 ppbv

RT: 22.40 min Scan# 6052

Delta R.T. 0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

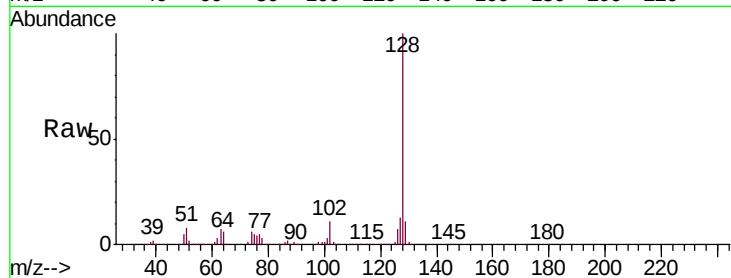
Tgt Ion:128 Resp: 2603074

Ion Ratio Lower Upper

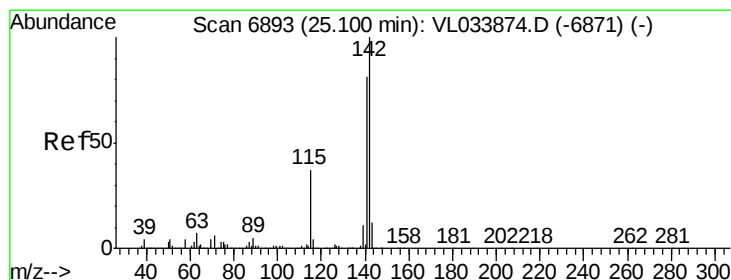
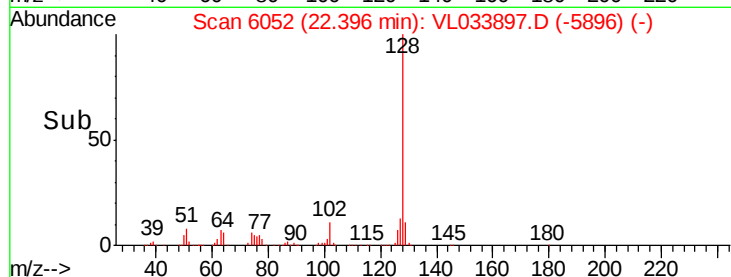
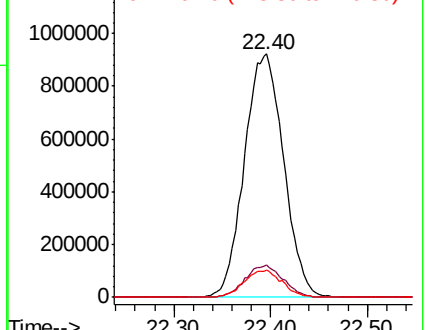
128 100

127 13.2 9.7 14.5

129 11.1 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: 7.060 ppbv

RT: 25.10 min Scan# 6893

Delta R.T. -0.00 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

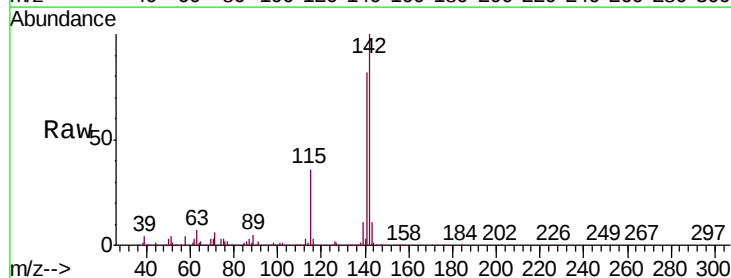
Tgt Ion:142 Resp: 895730

Ion Ratio Lower Upper

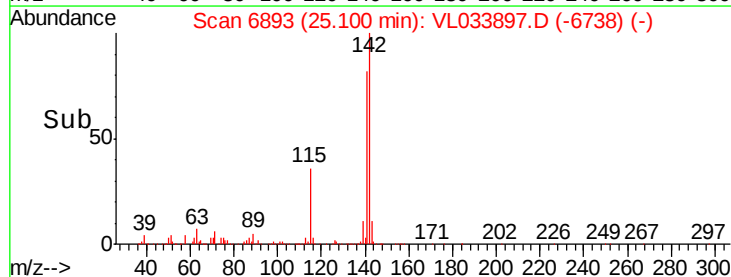
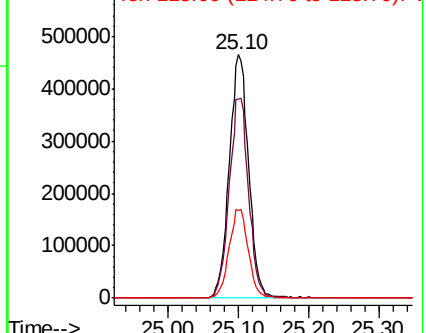
142 100

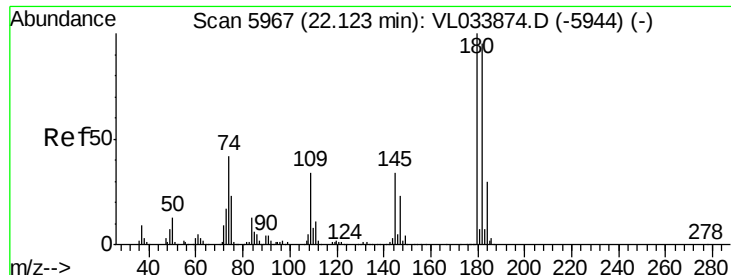
141 82.4 65.7 98.5

115 36.6 28.9 43.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 7.497 ppbv

RT: 22.12 min Scan# 5965

Delta R.T. -0.01 min

Lab File: VL033897.D

Acq: 7 Jun 2019 20:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

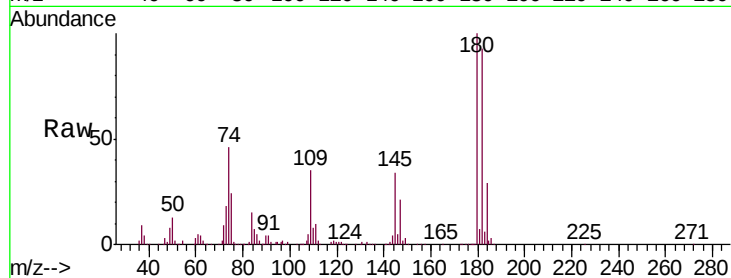
Tgt Ion:180 Resp: 1505063

Ion Ratio Lower Upper

180 100

182 96.0 76.9 115.3

184 30.9 24.5 36.7



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

